INDOOR UNIT DESIGNATION AHU-1 AHU-2				
OUTDOOR UNIT DESIGNATION			HP-1	HP-2
AIR Q	NANTITIES			
	TOTAL SUPPLY AIR	CFM	1,2 <i>00</i>	00,1
	OUTSIDE AIR	CFM	45	45
HEATI	NG AND COOLING CAPACITIES			
	TOTAL HEATING CAPACITY	BTUH	32 <i>,000</i>	57,300
	SENSIBLE COOLING CAPACITY	BTUH	28, <i>000</i>	42,975
	TOTAL COOLING CAPACITY	BTUH	36,000	57,300
	EMPERATURES			
	COOLING COIL ENTERING	°Fdb-°Fwb	80-67	80-67
	COOLING COIL LEAVING	*Fdb-*Fwb	55-54	55-54
	HEATING COIL ENTERING AND LEAVING	"Fdb-"Fdb	52-95	52-95
INDOC	DR UNIT DATA			
	EXTERNAL STATIC PRESSURE (INCL. FILTER)	IN. H2Ø	<i>Ø.</i> 1	Ø.T
	BLOWER MOTOR	ΗP	3/4	3/4
		V/PH	208-230/1	208-230/1
	CONDENSATE DRAIN SIZE	IN.	3/4"	3/4"
	FILTER LOCATION		UNIT	UNIT
ELECT	TRIC HEAT DATA	•		
	HEATING TYPE		ELECTRIC	ELECTRIC
	LOCATION		SUPPLY	SUPPLY
	ACTUAL HEATING CAPACITY (NOMINAL CAP.)	кШ	1Ø	10
	VOLTAGE	V/PH	208-230/1	208-230/1
OUTDO	OOR UNIT DATA			
	NUMBER OF COMPRESSORS/NUMBER OF STAGES	NO.	1	1
	ELECTRICAL CHARACTERISTICS	V/PH	208-230/1	208-230/1
	MCA/MOCP	AMPS (EACH)	26.7/45	22.9/35
	UNIT WEIGHT	LBS.	325	325
REFRI	GERANT TYPE		R-410A	R-410A
REFRI	GERANT SUCTION AND LIQUID LINE SIZES	ININ.	MFG.	MFG.
SEER/	/SEER2		14.3/15	14.3/15
	COP (HEATING) HSPF (HEATING)		-	-
HSPF			8.5	8.5
MANUF	ACTURER		возсн	возсн
MODEL NUMBER (INDOOR UNIT)			BVAØ36	BVAØ24
MODEL NUMBER (OUTDOOR UNIT)				BOVA24
المعنية (المعنية المعنية) (ا المعنية (المعنية) (المعنية ال				

HEAT PUMP SPLIT SYSTEM SCHEDULE

RECTANGULAR DUCT,

INSIDE DIMENSIONS,

WIDTH BY HEIGHT

FIRE DAMPER,

2 HOUR RATING

RECTANGULAR DUCT

ROUND SHEET METAL

WITH SPIN-IN FITTING

SUPPLY AIR DUCT

AND MANUAL DAMPER

ELBOW WITH VANES

DOUBLE WIDTH

DUCT TAKEOFF

END SECTION

— - - - ____ CEILING DIFFUSER SCHEDULE NECK RUNQUT FACE DIMENSION AIR BYMBOL QUANTITY ! SIZE DUCT HAR 0-60 6"¢ 8"¢ 12× 65 - 150 8"¢ 8"¢ 16 × 155 - 195 | 8"¢ | 10"¢ | 16 × 200 - 250 | 10"+ | 10"+ | 20×

20×12 20×12	RETURN, EXHAUST OR O/A DUCT END SECTION	
F D	SUPPLY AIR DIFFUSER Plan view	
	RETURN AIR GRILLE PLAN VIEW	
	RECTANGULAR DUCT, TRANSITION	
HARD PIPE UP TO FLEX	24" RD. DRYWELL FOR C	
	ROOM THERMOSTAT (MO X 19 ASSOCIATED AHU N	

MECHANICAL LEGEND

BALANCING DAMPER

	5 10	• ~ •
\square	80 - 105	10 × 6
	110 - 175	10 imes 10
\square	180 - 270	12 × 12
	275 - 325	18 imes 12
\square	330 - 800	24×24
	805 - 1200	24 × 24
	12Ø5 - 15ØØ	24 × 24

I. ALL DIFFUSER TO BE TITUS TYPE TWS OR EQUA 2. RETURN GRILLES TO BE TITUS 35ORL TYPE.

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.

7. PROVIDE CONDENSATE PUMP FOR ALL AHU'S.

8. REFER TO MANUFACTURE FOR INSTALL AND SERVICE CLEARANCE.

MECHANICAL GENERAL NOTES

A DUCT A IS BROKEN TO SHOW DUCT B BELOW.

A DUCT A RUNS BELOW

U DUCT A CONTINUES ON ANOTHER DRAWING, SEE KETNOTE.

	AIR	NECK	[Nuivou [
-	QUANTITY	SIZE	DUCT SIZE	HARD CEILING	LAY-IN CEILING	
	0 - 60	6"\$	8"¢	12 × 12	24×24	
	65 - 150	8"¢	8"¢	16 X 16	24×24	
	155 - 195	8"¢	i@"\$	16 X 16	24 × 24	
	200 - 250	10"+	1Ø"\$	2Ø X 2Ø	24 × 24	
	255 - 395	10"+	12"¢	2Ø × 2Ø	24 × 24	
	400 - 550	12"¢	12"¢	24×24	24 × 24	
	555 - 595	12"¢	14"¢	24×24	24×24	
	600 - 745	14"¢	14"¢	24 imes 24	24 × 24	
	750 - 1000	16"4	16"\$	30 X 30	30 × 30	

CEILING RETURN AIR OR

EXHAUST REGISTER SCHEDULE					
SYMBOL	CFM	SIZE	RUNOUT SIZE *		
\square	Ø - 75	8×6	10 × 6		
\square	80 - 105	10 × 6	12 × 6		
\square	110 - 175	10 imes 10	12 × 8		
\square	180 - 270	12 × 12	14 × 8		
\square	275 - 325	18 imes 12	2Ø × 8		
Ν	330 - 800	24 imes 24	26 × 10		
	805 - 1200	24 × 24	26 × 12		

26 X 14 * THESE SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON DRAWINGS. 1. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED SUBJECT TO THE NON TECHNICAL SPECIFICATIONS. THIS SECTION APPLIES TO ALL AIR CONDITIONING, SHEETMETAL, PIPING, AND AUTOMATIC TEMPERATURE CONTROLS WORK.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF OTHER TRADES. SEE ARCHITECTURAL SECTIONS FOR A DESCRIPTION OF WORK AND SEQUENCE OF CONSTRUCTION. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC IN NATURE. THEY ARE, HOWEVER, AS ACCURATE AS SCALE PERMITS AND THE CONTRACTOR SHALL FOLLOW THEM AS CLOSELY AS POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL CONDITIONS RELATING TO THE WORK IN THE FIELD PRIOR TO PROCEEDING. WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL WALLS, PARTITIONS, AND STRUCTURAL SYSTEMS BEFORE INSTALLATION AND 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 THE SOLE INTERPRETER OF THE DRAWINGS.

3. ALL MATERIALS SHALL BE NEW AND OF BEST QUALITY AND SHALL BE THE PRODUCTS OF REPUTABLE MANUFACTURERS. MATERIALS AND EQUIPMENT SHALL BE PROPERLY STORED AND PROTECTED FROM THE WEATHER AT ALL TIMES DURING CONSTRUCTION TO PREVENT UNNECESSARY CORROSION AND FOULING. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY SKILLED AND COMPETENT MECHANICS, ANY WORKER CONSIDERED INCOMPETENT OR UNFIT FOR WORK ON THIS CONSTRUCTION PROJECT SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER.

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 ORDER TO PROCEED WITH THE WORK.

5. THE CONTRACTOR IS REQUIRED TO ATTEND ALL 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 OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY TO FURNISH THE MATERIALS AND PERFORM THE WORK OF SUCH ITEMS, IN A MANNER COMPARABLE TO OTHER ITEMS OF SIMILAR NATURE FOR WHICH DETAILED SPECIFICATIONS ARE INCLUDED. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CLEARLY SET FORTH ALL WORK, AND THE DETAILED DESCRIPTION IS ADDED TO ASSIST IN ESTABLISHING THE SCOPE AND THE LOCATION OF THE SEVERAL PARTS OF THE WORK. 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 BE AS THOUGH REQUIRED IN ALL.

6. ALL CUTTING AND PATCHING SHALL BE DONE BY WORKMEN SKILLED IN THE TRADES INVOLVED. ALL CUTTING SHALL BE DONE IN SUCH A MANNER AS NOT TO ENDANGER OR DAMAGE FACILITIES. ALL PATCHING SHALL FINISH FLUSH AND SMOOTH AND SHALL MATCH EXISTING ADJOINING SURFACES.

7. SEE GENERAL REQUIREMENTS FOR ELECTRICITY AND WATER THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL FUEL REQUIRED FOR THE OPERATION OF HIS CONSTRUCTION EQUIPMENT.

8. ALL FINISHED FIELD INSTALLED PRESSURE PIPING SYSTEMS SHALL BE TESTED.

9. WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, SERVICES, SUPERVISION, PLANT, AND PERFORMING ALL OPERATIONS REQUIRED TO PROPERLY COMPLETE ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS INDICATED ON THE APPLICABLE DRAWINGS, SUBJECT TO TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR IS REQUIRED TO HAVE A QUALIFIED AND EXPERIENCED GENERAL SUPERINTENDENT AND EXPERIENCED SUPERINTENDENT FOR EACH TRADE

INVOLVED ON THE JOB WHEN ANY WORK IS IN PROGRESS. ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE ORDINANCES OR REGULATIONS GOVERNING THE INSTALLATION OF SUCH EQUIPMENT. IF WORK, AS LAID OUT, INDICATED OR SPECIFIED IS RECOGNIZED TO BE CONTRARY TO OR CONFLICTING WITH LOCAL ORDINANCES OR REGULATIONS, THE CONTRACTOR SHALL REPORT SAME TO THE ENGINEER BEFORE SUBMITTING A BID. THE ENGINEER WILL THEN ISSUE INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF CONFLICTS OR OMISSIONS NOTED ABOVE, ALL CHANGES REQUIRED TO COMPLY WITH ORDINANCES AND REGULATIONS SHALL BE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

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:

I. FLORIDA BUILDING CODE, 2023 8TH EDITION. 2. FLORIDA PLUMBING CODE, 2023 8TH EDITION.

- 3. FLORIDA MECHANICAL CODE, 2023 8TH EDITION.
- 4. NEPA 10, NATIONAL ELECTRICAL CODE 5. NEPA 101, LIFE SAFETY CODE

6. NEPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS 1. NEPA 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.

2. 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 MADE.

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.

DH-1 PERFORMANCE Water Removal Efficiency 5.0 Pints/kWh Energy Factor 2.4 L/kWh 150 CFM @ 0.0" WG Blower 140 CFM @ 0.2" WG

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

ELECTRICAL Power Supply Voltage Current Draw Power Cord

Circuit Requirement 15 Amps **SPECIFICATIONS** Duct Connections Drain Connection Refrigerant Unit Dimensions Unit Weight SHIPPING Shipping Dimensions Shipping Weight Pallet Quantity

UPC Number

Shipping Options

@ 80°F and 60%RH @ 73°F and 60%RH 70 Pints / 8.75 Gallons 55 Pints / 6.875 Gallons 4.79 Pints/kWh 2.27 L/kWh 130 CFM @ 0.4" WG 70 Watts Up to 1,800 Sq. Ft. / 18,000 Cu. Ft.

580 watts @ 80°F and 60% RH 115 volt – 1 phase – 60 Hz 5.1 amps Plug Type B 9', 115 VAC, Ground (USA, MEX, CAN, JPN)

8" Round Inlet, 8" Round Outlet 3/4" Threaded Female NPT R410A, 15 oz. 12"W x 12"H x 28"D 55 lbs.

15"W x 16"H x 31"D 65 lbs. 12 per pallet 859029004632 UPS and LTL MODEL 4033730 SANTA FE

FEATURES

+ Small footprint (12" x 12" x 22") fits low profile spaces

+ Rotatable exhaust outlet provides for horizontal or vertical discharge

+ Ducting option for fresh outdoor air ventilation

+ Onboard dehumidistat with optional DEH 3000/R digital control

+ Features MERV-13 filter for superior air filtration

 Push button reset for transformer protection

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 (FSK TYPE)

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 I 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

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. DRAING 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 REROUTE 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 RATING.

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

(D) NEPA (E) AMCA STANDARD HANDBOOK 99

(F) AIR DIFFUSION COUNCIL TEST CODE 1062R3 (G) SBCCI STANDARD MECHANICAL CODE

(I) ANSI (J) ASME

(K) AGA (L) UL FIRE REGISTANCE DIRECTORY

23. FURNISH AND INSTALL ACCESS DOORS(18"x18" MINIMUM) IN

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 VAPOR RISERS,

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) HEATING/AIR CONDITIONING EQUIPMENT

DAMPERS FANS

G. PIPING

INSULATION MATERIALS CONTROLS

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.

41. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

EXHAUST FAN SCHEDULE EF-1 EF-2 UNIT DESIGNATION AIR FLOW CFM ٦Ø ٦Ø STATIC PRESSURE IN, WC Ø.5 Ø.5 FAN MOTOR POWER HP 100W 100W FAN SPEED RPM 732 732 DRIVE DIRECT DIRECT SONES SONES 15 15 WEIGHT LBS Ø 10 ELECTRICAL CHARACTERISTICS V/PH 115/1 115/1 MANUFACTURER BROAN GREENHECK SP-BIIØ MODEL NUMBER 512M

NOTES:

1. MOUNT ALL EXHAUST FANS IN ACCORDANCE WITH MFG INSTRUCTIONS.

2. PROVIDE FAN SPEED CONTROLLERS FOR ALL EXHAUST FANS. 3. WIRE EXHAUST FANS IN ROOM THEY SERVE TO LIGHT SWITCH.

4. PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST

Winton Engineering, P.A. Robin Winton, P.E. 2207 WOODBINE DR.

TALLAHA66EE, FL 32309 850-894-5376 FL #56206

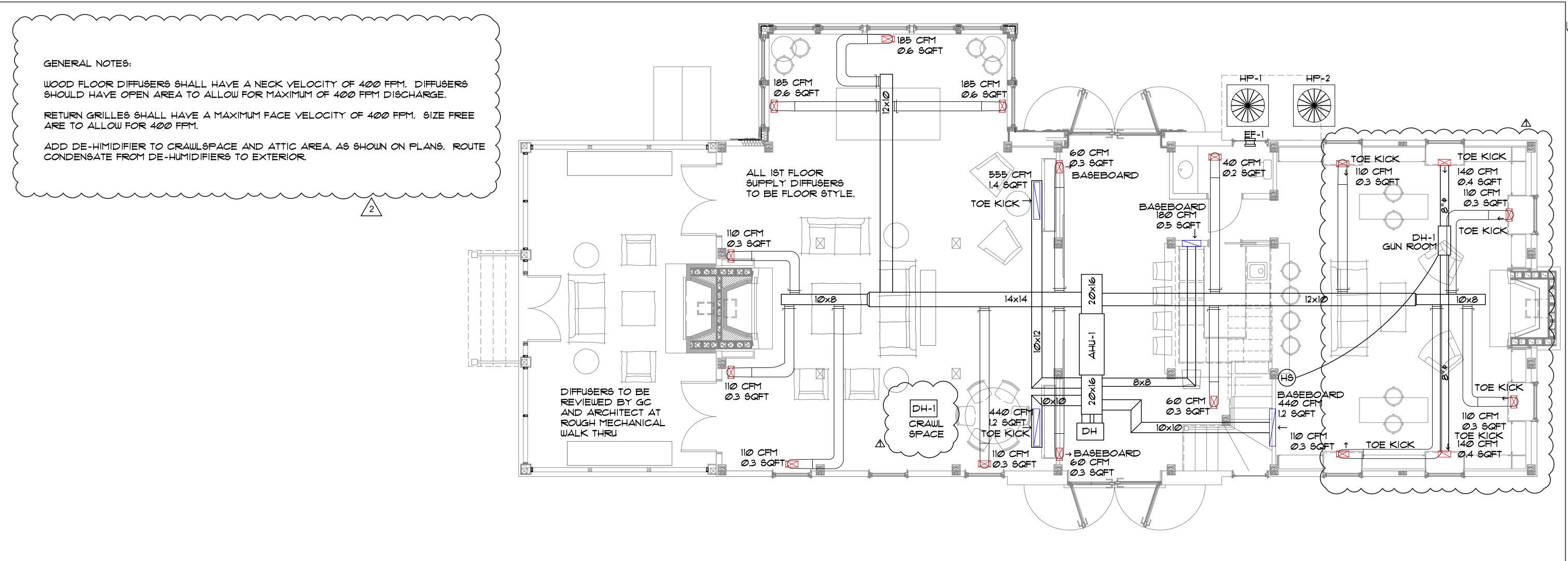
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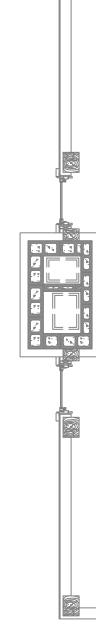
MARTHA'S RETREAT BARN

Checked By: 2024 SIGN OPMEI	RPW			
SIGN				
	NT			
MECHANICAL NOTES				
	Florida			
4 4				
	CAL			

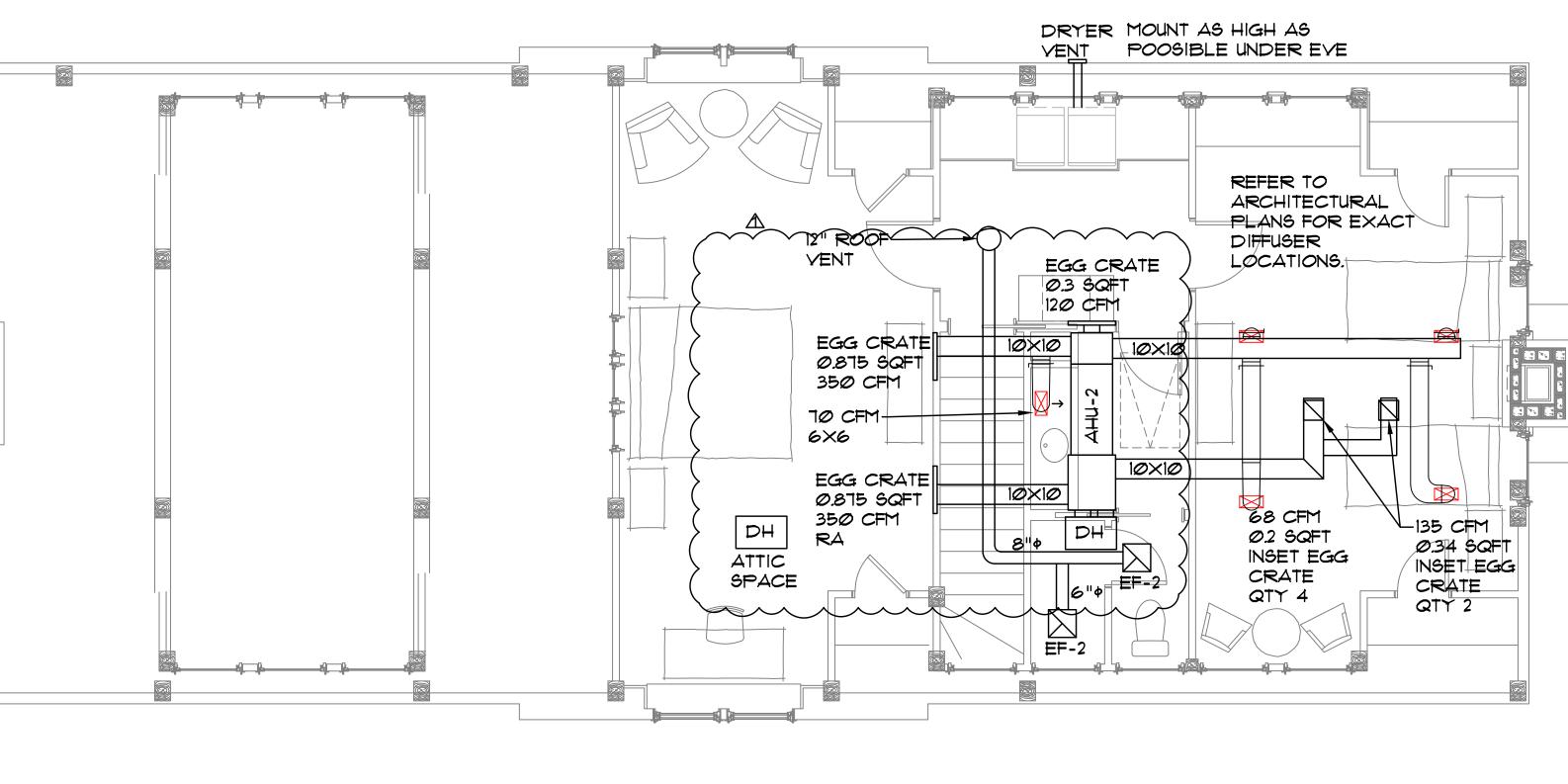
2207 WOODBINE DR, TALLAHAASEE, FL 32309

Phone 850 567-2019







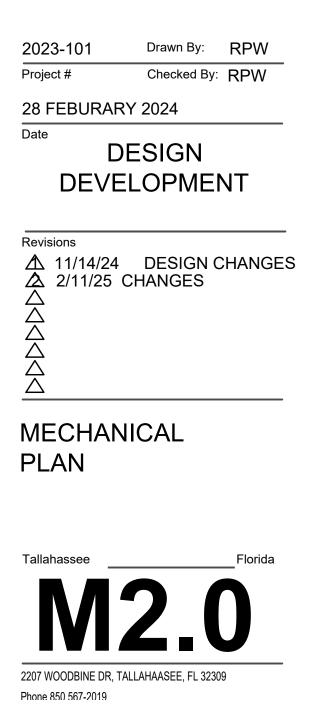


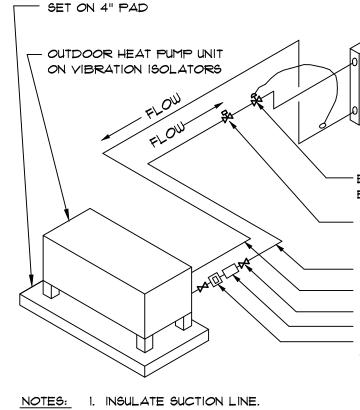
MECHANICAL 2ND FLOOR PLAN Scale: 1/4" = 1'0" Winton Engineering, P.A. Robin Winton, P.E. 2207 WOODBINE DR TALLAHASSEE, FL 32309 850-894-5376

FL #56206

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MARTHA'S RETREAT BARN





CONDENSING UNIT-

CONDENSING PAD

NOTES:

UNIT HOLD DOWNS

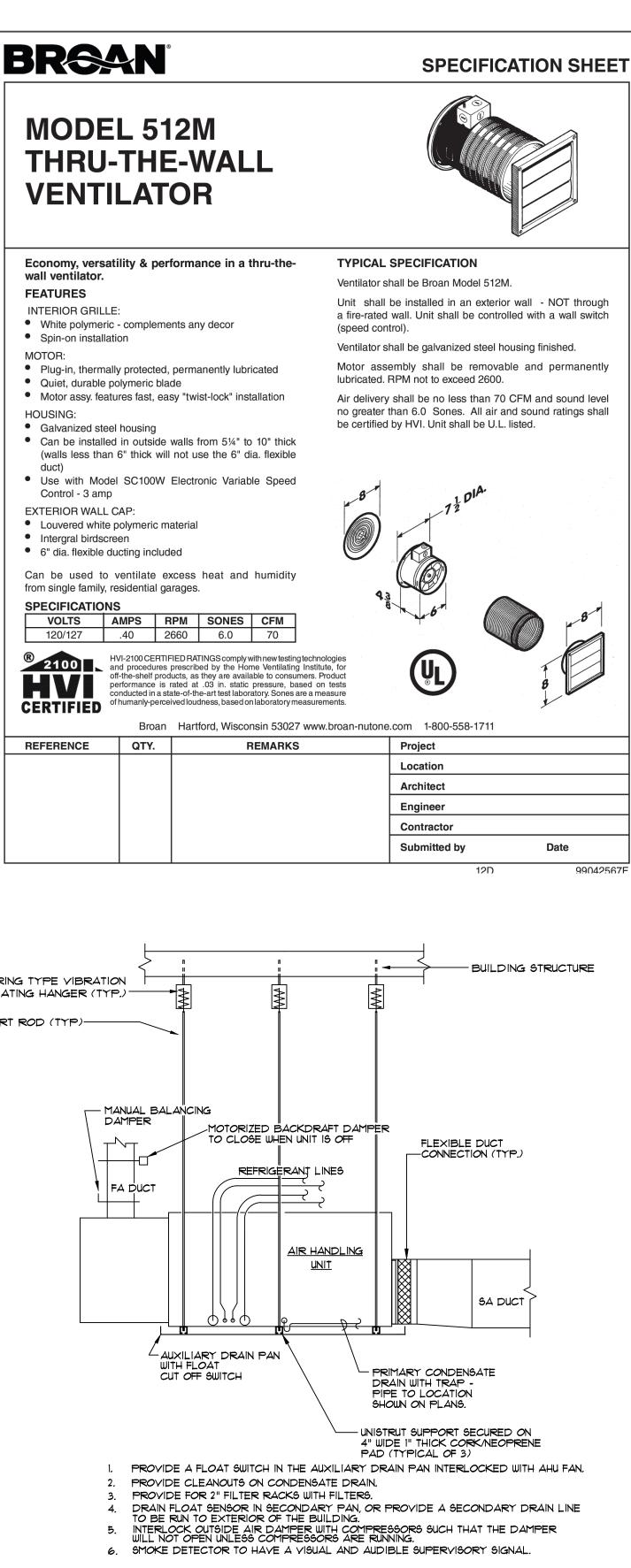
UNIT HOLD DOWNS TO BE SECURED TO CONDENSING PAD WITH BOLTS THRU BOTTOM OF CONDENSING UNIT THRU PAD. TYPICAL OF 4, ONE ON EACH CORNER OF UNIT

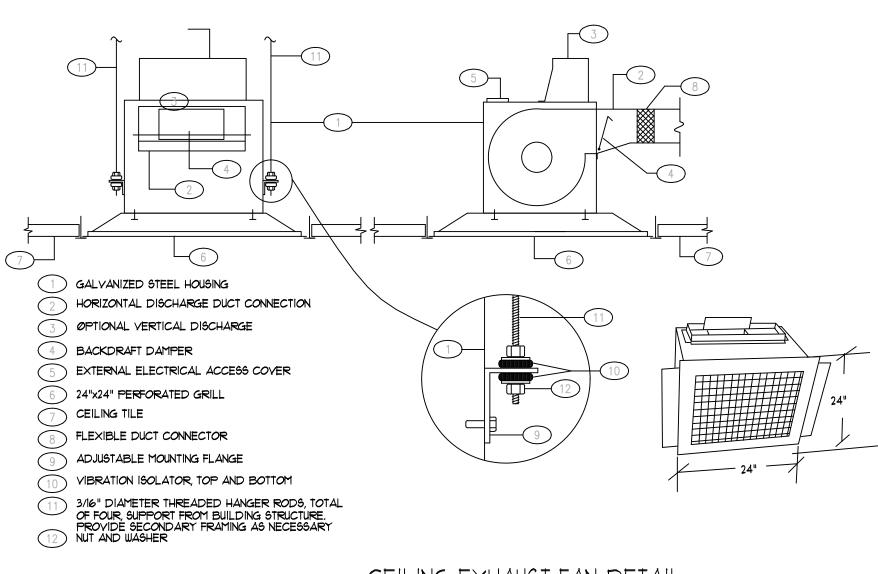
CONDENSING UNIT DETAIL

WITH HOLD DOWNS

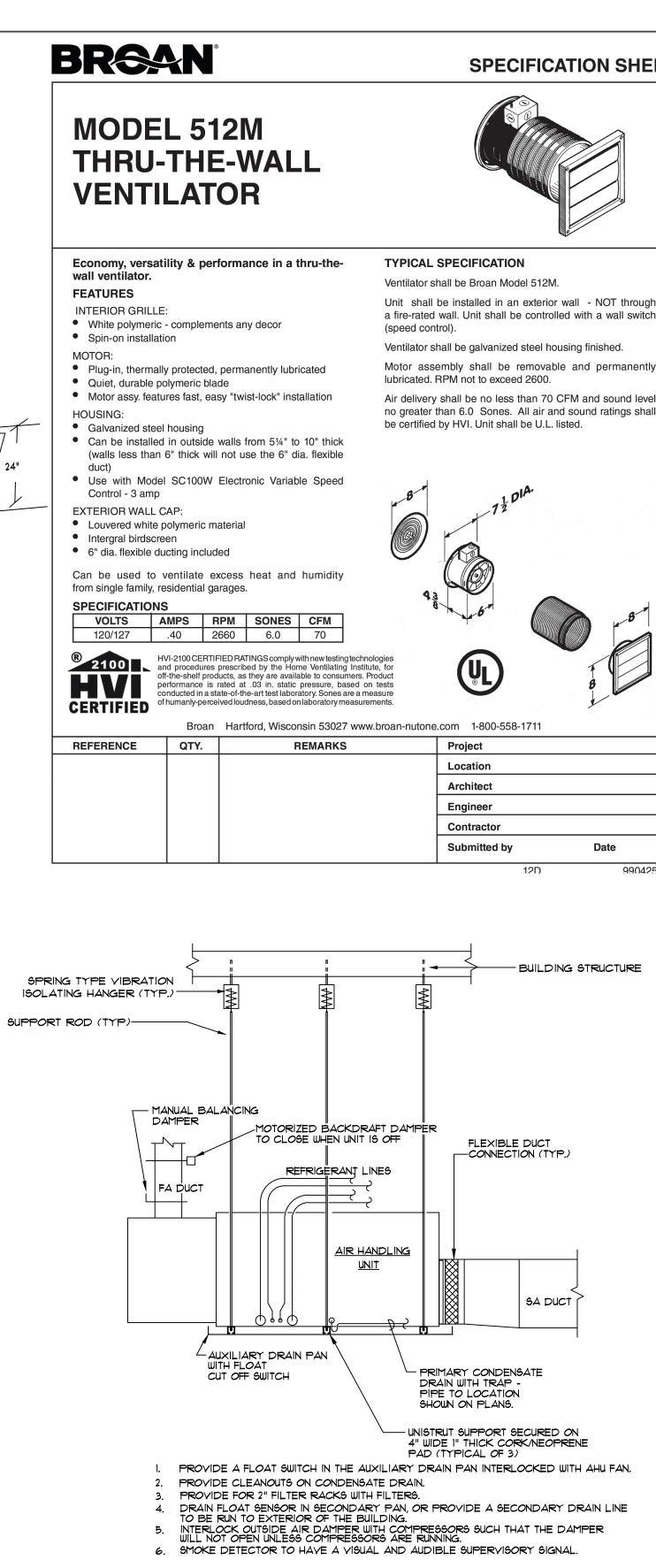
- 2. PITCH ALL HORIZONTAL SUCTION PIPING A MINIMUM OF 1/2" IN 10 FEET IN DIRECTION OF FLOW.
- 3. EQUIPMENT MANUFACTURER SHALL DETERMINE THE REFRIGERANT PIPE SIZES. PROVIDE SOLENOID VALVE, ACCUMULATOR AND OTHER REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.
- 4. WHERE REFRIGERANT PIPING IS 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.





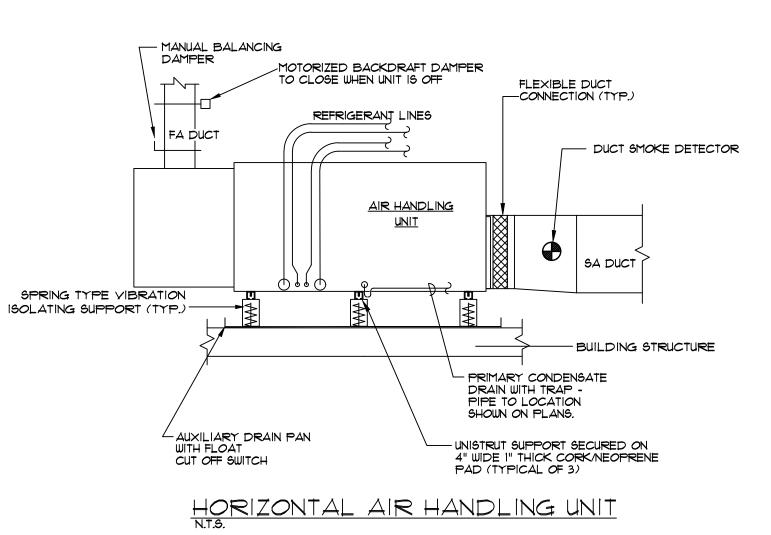
CEILING EXHAUST FAN DETAIL



-AIR FLOW INDOOR UNIT COIL

EXPANSION VALVE WITH BULB ON SUCTION LINE - SOLENOID VALVE (IF REQ'D BY MANUFACTURER)

REFRIGERANT LIQUID LINE REFRIGERANT SUCTION LINE ISOLATION VALVE (TYP.) - DRYER SIGHT GLASS AND MOISTURE INDICATOR



HORIZONTAL AIR HANDLING UNIT

Winton Engineering, P.A. Robin Winton, P.E. 2207 WOODBINE DR. TALLAHASSEE, FL 32309 850-894-5376

FL #56206

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MARTHA'S RETREAT BARN

2023-101	Drawn By:	RPW				
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