

NOTES:

DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE CONNECTION ON THE DRAIN PAN (I" MIN.) DRAIN LINE SHALL SLOPE 1/8" PER FOOT (MIN.) SEE SPECIFICATIONS FOR PIPE AND INSULATION

UNIT TYPE	A	В
DRAW-THRU	× PLUS 2"	×
BLOW-THRU	1" MIN.	2×

VARIATION FOR

DIRECT CONNECTION

FROM o

-1" MIN. (TYP.)

TO DRYWELL

CONDENSATE DRAIN DETAIL

OUTDOOR UNIT DESIGNATION	INDOOR UNIT DESIGNATION				
TOTAL SUPPLY AIR	OUTDOOR UNIT DESIGNATION				
OUTSIDE AIR CFM	AIR (QUANTITIES			
HEATING AND COOLING CAPACITIES		TOTAL SUPPLY AIR	CFM	975	
TOTAL HEATING CAPACITY BTUH 26,000		OUTSIDE AIR	CFM	-	
SENSIBLE COOLING CAPACITY BTUH 22,500 TOTAL COOLING CAPACITY BTUH 30,000 AIR TEMPERATURES COOLING COIL ENTERING T-dib-T-ub 50-61 COOLING COIL LEAVING T-dib-T-dib 52-95 INDOOR UNIT DATA EXTERNAL STATIC PRESSURE (INCL. FILTER) IN. H20 0.1 BLOWER MOTOR HP 1/3 CONDENSATE DRAIN SIZE IN. 3/4" FILTER LOCATION UNIT ELECTRIC HEAT DATA HEATING TYPE ELECTRICA LOCATION SUPPLY ACTUAL HEATING CAPACITY (NOMINAL CAP) KW 5 V/PH 208-230/1 CUIDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES NO. 1 ELECTRICAL CHARACTERISTICS V/PH 208-230/1 MCAMOCP AMPS (EACH.) 118/30 UNIT WEIGHT LBS. 2071 REFRIGERANT TYPE R-410A REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER2 14/115 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER3 SEER/SEER/SEER3 SEER/SEER/SEER/SEER/SEER/SEER/SEER/SEER	HEAT	ING AND COOLING CAPACITIES			
TOTAL COOLING CAPACITY TOTAL COOLING CAPACITY AIR TEMPERATURES COOLING COIL ENTERING COOLING COIL ENTERING Todo-Trub B5-64 Fdb-Trub B5-54 HEATING COIL ENTERING AND LEAVING Fdb-Trub Fdb-		TOTAL HEATING CAPACITY	втин	26,000	
AIR TEMPERATURES COOLING COIL ENTERING Tedb-Trub 80-61 COOLING COIL LEAVING Fedb-Trub 55-54 HEATING COIL ENTERING AND LEAVING Tedb-Trub 52-95 INDOOR UNIT DATA EXTERNAL STATIC PRESSURE (INCL. FILTER) IN. H20 0.1 BLOWER MOTOR HP 1/3 ELECTRICAL CHARACTERISTICS V/PH 208-230/ CONDENSATE DRAIN SIZE IN. 3/4" FILTER LOCATION UNIT ELECTRIC HEAT DATA HEATING TYPE ELECTRICA ELECTRICA SUPPLY VOLTAGE V/PH 208-230/ CUIDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES IN. 128-230/ MCAMOCP UNIT WEIGHT LBS. 2071 REFRIGERANT TYPE R-410A REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER? COP (HEATING) HSPF (HEATING) 82-240/ 14/15		SENSIBLE COOLING CAPACITY	втин	22,500	
COOLING COIL ENTERING		TOTAL COOLING CAPACITY	втин	30,000	
COOLING COIL LEAVING Fob-17-wib BB-54 HEATING COIL ENTERING AND LEAVING Fob-17-dib 52-95 INDOOR UNIT DATA EXTERNAL STATIC PRESSURE (INCL. FILTER) BLOWER MOTOR ELECTRICAL CHARACTERISTICS CONDENSATE DRAIN SIZE FILTER LOCATION ELECTRIC HEAT DATA HEATING TYPE LOCATION ACTUAL HEATING CAPACITY (NOMINAL CAP.) VOLTAGE OUTDOOR UNIT DATA NUMBER OF COMPRESSORS NUMBER OF STAGES MC. ELECTRICAL CHARACTERISTICS V/PH 208-230/ MCAMOCP UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER2 COP (HEATING) B-10-17-wib 10-18-10-18-10-18-18-18-18-18-18-18-18-18-18-18-18-18-	AIR 1	TEMPERATURES			
HEATING COIL ENTERING AND LEAVING Tab-17ab 52-95 INDOOR UNIT DATA EXTERNAL STATIC PRESSURE (INCL. FILTER) IN. H20 0.1 BLOWER MOTOR HP 1/3 ELECTRICAL CHARACTERISTICS V/PH 208-230/ CONDENSATE DRAIN SIZE IN. 3/4" FILTER LOCATION UNIT ELECTRIC HEAT DATA HEATING TYPE ELECTRICAL CHARACTERISTICS SUPPLY ACTUAL HEATING CAPACITY (NOMINAL CAP.) KW 5 VOLTAGE V/PH 208-230/ CUTDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES NO. 1 ELECTRICAL CHARACTERISTICS V/PH 208-230/ MCAMOCP AMPS (EACH.) 118/30 INIT WEIGHT LPS. 201 REFRIGERANT TYPE R-410A REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER2 COP (HEATING) 8.2		COOLING COIL ENTERING	°Fdb-°Fwb	80-67	
NDOOR UNIT DATA		COOLING COIL LEAVING	*Fdb-*Fwb	55-54	
EXTERNAL STATIC PRESSURE (INCL. FILTER) BLOWER MOTOR ELECTRICAL CHARACTERISTICS CONDENSATE DRAIN SIZE FILTER LOCATION ELECTRIC HEAT DATA HEATING TYPE LOCATION ACTUAL HEATING CAPACITY (NOMINAL CAP.) VOLTAGE OUTDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES MCAMOCP UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES SEER/SEER2 COP (HEATING) 10 10 10 11 12 12 12 13 14 15 15 16 17 18 18 19 19 19 10 10 10 11 11 11 12 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18		HEATING COIL ENTERING AND LEAVING	°Fdb-°Fdb	52-95	
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ELECTRICAL CHARACTERISTICS CONDENSATE DRAIN SIZE FILTER LOCATION ELECTRIC HEAT DATA HEATING TYPE LOCATION ACTUAL HEATING CAPACITY (NOMINAL CAP.) V/PH 208-230/ CUITDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES MCAMOCP UNIT WEIGHT REFRIGERANT TYPE REFRIGERANT SUCTION AND LIQUID LINE SIZES MS2 COP (HEATING) HSPF (HEATING) RESPONDED V/PH 208-230/ V/PH 208-230/ NO. 1 RESPONDED REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. MFG RESPONDED RESPONDED NO. 1 RESPONDED RES		EXTERNAL STATIC PRESSURE (INCL. FILTER)	IN. H2Ø	Ø.7	
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FILTER LOCATION ELECTRIC HEAT DATA HEATING TYPE LOCATION ACTUAL HEATING CAPACITY (NOMINAL CAP.) VOLTAGE OUTDOOR UNIT DATA NUMBER OF COMPRESSORS NUMBER OF STAGES MCAMOCP UNIT WEIGHT REFRIGERANT TYPE REFRIGERANT TYPE REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 11.8/30 REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 11.8/30 UNIT WEIGHT RESPECTOR OF COMPRESSORS NUMBER OF STAGES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 1.8/30 UNIT WEIGHT REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 2.8/41/41/41/41/41/41/41/41/41/41/41/41/41/		ELECTRICAL CHARACTERISTICS	V/PH	208-230/	
ELECTRIC HEAT DATA HEATING TYPE LOCATION ACTUAL HEATING CAPACITY (NOMINAL CAP.) V/PH 208-230/ CUITDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES MCAMOCP UNIT WEIGHT REFRIGERANT TYPE REFRIGERANT SUCTION AND LIQUID LINE SIZES MCAMOCP HEATING) SEE COP (HEATING) REFRIGERATING) ELECTRICAL CHARACTERISTICS V/PH 208-230/ 118/30 LBS. 201 REFRIGERANT SUCTION AND LIQUID LINE SIZES NIN. MFG SEER/SEER2 COP (HEATING) 82		CONDENSATE DRAIN SIZE	IN.	3/4"	
HEATING TYPE LOCATION ACTUAL HEATING CAPACITY (NOMINAL CAP.) VOLTAGE V/PH 208-230/ OUTDOOR UNIT DATA NUMBER OF COMPRESSORS NUMBER OF STAGES NO. ELECTRICAL CHARACTERISTICS V/PH 208-230/ MCAMOCP UNIT WEIGHT LBS. 201 REFRIGERANT TYPE R-4I0A REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER2 COP (HEATING) 82		FILTER LOCATION		UNIT	
LOCATION SUPPLY	ELEC	TRIC HEAT DATA			
ACTUAL HEATING CAPACITY (NOMINAL CAP.) VOLTAGE V/PH 208-230/ OUTDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES NO. ELECTRICAL CHARACTERISTICS V/PH 208-230/ MCAMOCP AMPS (EACH) UNIT WEIGHT LBS. 201 REFRIGERANT TYPE R-410A REFRIGERANT SUCTION AND LIQUID LINE SIZES SEER/SEER2 COP (HEATING) 82		HEATING TYPE		ELECTRIC	
VOLTAGE V/PH 208-230/ OUTDOOR UNIT DATA NUMBER OF COMPRESSORS NUMBER OF STAGES NO. ELECTRICAL CHARACTERISTICS MCAMOCP UNIT WEIGHT LBS. REFRIGERANT TYPE R-4I0A REFRIGERANT SUCTION AND LIQUID LINE SIZES NO. 1 208-230/ MMPS (EACH) 17.8/30 REFRIGERANT SUCTION AND LIQUID LINE SIZES NIN. MFG SEER/SEER2 COP (HEATING)		LOCATION		SUPPLY	
OUTDOOR UNIT DATA NUMBER OF COMPRESSORS/NUMBER OF STAGES NO. 1 ELECTRICAL CHARACTERISTICS MCA/MOCP UNIT WEIGHT REFRIGERANT TYPE R-4IØA REFRIGERANT SUCTION AND LIQUID LINE SIZES SEER/SEER2 COP (HEATING) HSPF (HEATING) 82		ACTUAL HEATING CAPACITY (NOMINAL CAP.)	kW	5	
NUMBER OF COMPRESSORS/NUMBER OF STAGES NO. 1 ELECTRICAL CHARACTERISTICS MCA/MOCP UNIT WEIGHT REFRIGERANT TYPE REFRIGERANT SUCTION AND LIQUID LINE SIZES SEER/SEER2 LBS. ININ. MFG SEER/SEER2 14/IL5 COP (HEATING) 82		VOLTAGE	V/PH	208-230/	
ELECTRICAL CHARACTERISTICS MCAMOCP MIT WEIGHT REFRIGERANT TYPE REFRIGERANT SUCTION AND LIQUID LINE SIZES MININ. MFG 14/II.5 COP (HEATING) 82	OUTE	OOR UNIT DATA			
MCAMOCP UNIT WEIGHT REFRIGERANT TYPE R-4IØA REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER2 COP (HEATING) HSPF (HEATING) AMPS (EACH) IT.8/3Ø R-4IØA R-4I		NUMBER OF COMPRESSORS/NUMBER OF STAGES	NO.	1	
UNIT WEIGHT REFRIGERANT TYPE R-4IØA REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER2 COP (HEATING) HSPF (HEATING) 82		ELECTRICAL CHARACTERISTICS	V/PH	208-230/	
REFRIGERANT TYPE R-4IØA REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ. MFG SEER/SEER2 14/II.5 COP (HEATING) 82		MCA/MOCP	AMPS (EACH)	17.8/30	
REFRIGERANT SUCTION AND LIQUID LINE SIZES SEER/SEER2 COP (HEATING) HSPF (HEATING) 82		UNIT WEIGHT	LBS.	2Ø7	
SEER/SEER2 14/11.5 COP (HEATING) - HSPF (HEATING) 82	REFRIGERANT TYPE		R-410A		
COP (HEATING)	REFRIGERANT SUCTION AND LIQUID LINE SIZES ININ.		MFG		
HSPF (HEATING) 82	SEER	VGEER2		14/11.5	
	COP	(HEATING)		-	
MANUFACTURER DAIKIN	HSPF	(HEATING)		8.2	
	MANU	MANUFACTURER		DAIKIN	

I. 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.

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.

255 - 395

YMBOL CFM

Ø - 75

80 - 105

110 - 175

180 - 270

275 - 325

330 - 800

805 - 1200

| 12*0*5 - 15*00* |

▶ DH-1

Water Removal

Efficiency

Sizing

Power

ELECTRICAL

Circuit Requirement

Duct Connections

Drain Connection

Unit Dimensions

Refrigerant

Unit Weight

SPECIFICATIONS

Supply Voltage

Current Draw

Power Cord

Energy Factor

PERFORMANCE

ALL DIFFUSER TO BE TITUS TYPE TMS OR EQUAL
 RETURN GRILLES TO BE TITUS 350RL TYPE.

CEILING DIFFUSER SCHEDULE NECK RUNOUT FACE DIMENSION YMBOL QUANTITY HARD LAY-IN SIZE SIZE | CEILING | CEILING 0 - 60 6"¢ | 8"¢ | 12 × 12 | 24 × 24 65 - 150 8"¢ | 8"¢ | 16 × 16 | 24 × 24 155 - 195 8"¢ |10"¢ | 16 × 16 | 24 × 24

| 200 - 250 | 10"¢ | 10"¢ | 20 × 20 | 24 × 24

|750 - 1000| 16"+ |16"+ | 30 × 30 | 30 × 30

SIZE

8×6

10×6

 10×10

 12×12

18 × 12

 24×24

 24×24

 24×24

THESE SIZES ARE TO BE USED UNLESS OTHERWISE NOTED ON DRAWINGS

CEILING RETURN AIR OR

EXHAUST REGISTER SCHEDULE

10"\$ | 12"\$ | 20 × 20 | 24 × 24

5. THE CONTRACTOR IS REQUIRED TO ATTEND ALL |400 - 550| 12" ϕ | 12" ϕ | 24 × 24 | 24 × 24 CONSTRUCTION CONFERENCES INCLUDING THE PRE-BID CONFERENCE, THE PRE-CONSTRUCTION CONFERENCE AND | 555 - 595 | 12"¢ | 14"¢ | 24 × 24 | 24 × 24 |600 - 745 | 14"¢ | 14"¢ | 24 × 24 | 24 × 24

RUNOUT SIZE *

10×6

12 × 6

12 × 8

14 × 8

2Ø × 8

26 X 10

 26×12

 26×14

5.0 Pints/kWh

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

2.4 L/kWh

70 Watts

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 55 Pints / 6.875 Gallons

9', 115 VAC, Ground (USA, MEX, CAN, JPN)

4.79 Pints/kWh

' `Plug Type B

2.27 L/kWh

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.

1. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED

SUBJECT TO THE NON TECHNICAL SPECIFICATIONS. THIS

SECTION APPLIES TO ALL AIR CONDITIONING. SHEETMETAL.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

TO COORDINATE HIS WORK WITH THAT OF OTHER TRADES.

THE CONTRACTOR SHALL VERIFY ALL WALLS, PARTITIONS,

FABRICATION OF ANY DUCTWORK OR PIPING SYSTEMS. ALL

PIPING SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO

ADDITIONAL COST TO THE OWNER. THE ENGINEER SHALL BE

OFFSETS REQUIRED FOR INSTALLATION OF DUCTWORK, OR

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

ORDER TO PROCEED WITH THE WORK.

SEE ARCHITECTURAL SECTIONS FOR A DESCRIPTION OF

PIPING, AND AUTOMATIC TEMPERATURE CONTROLS WORK.

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

MECHANICAL GENERAL NOTES

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:

1. 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 ABOYE 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

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 HYAC 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 YOLUME 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.

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 HYAC 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 YERIFY 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 FOUIPMENT

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 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) NFPA

(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 RESISTANCE DIRECTORY 31. INSULATE ALL REFRIGERANT LINES WITH 3/4" ARMAFLEX OR EQUIVALENT INSULATION'S PROVIDE WITH WEATHERPROOF ALUMINUM JACKET ON LINES OUTSIDE.

WINTON ENGINEERING. PA ROBIN WINTON, PE

2207 WOODBINE DR

TALLAHASSEE, FL 32309

850 567-2019

FL # 56206

ROBIN WINTON, STATE OF FLORIDA.

PROFESSIONAL ENGINEER. LICENSE

DIGITALLY SIGNED AND SEALED BY

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NO. 56206. THIS ITEM HAS BEEN

ROBIN WINTON ON THE DATE

OF THIS DOCUMENT ARE NOT

AND THE SIGNATURE MUST BE

VERIFIED ON ANY ELECTRONIC

MARTHA'S

POOL HOUSE

Drawn By: RPW

Checked By: RPW

RETREAT

2023-101

Revisions

28 JUNE 2024

MECHANICAL

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NOTES

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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

INSULATION MATERIALS CONTROLS

PIPING

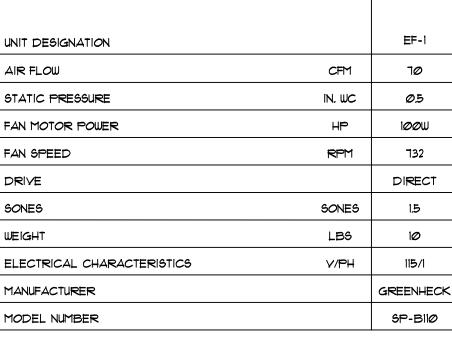
FANS

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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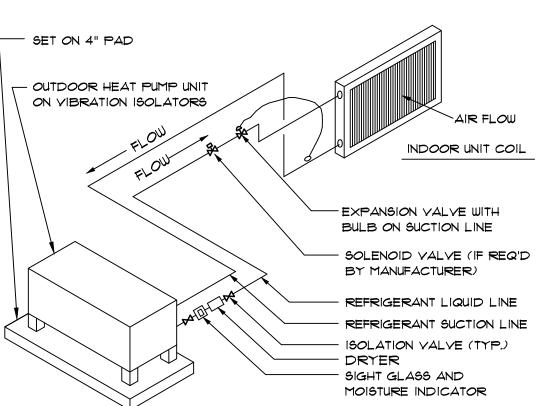
- 1. MOUNT ALL EXHAUST FANS IN ACCORDANCE WITH MFG INSTRUCTIONS. PROVIDE FAN SPEED CONTROLLERS FOR ALL EXHAUST FANS.
- . WIRE EXHAUST FANS IN ROOM THEY SERVE TO LIGHT SWITCH. 4. PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST
- 5. EF-4 TO HAVE TIME CLOCK AND OVER RIDE SWITCH IN RR. OVER RIDE TO RUN FOR 15 MINUTES BEFORE SHUTTING OFF.

IEXHAUST FAN SCHEDULE

3. EQUIPMENT MANUFACTURER SHALL DETERMINE THE

REFRIGERANT PIPE SIZES. PROVIDE SOLENOID VALVE, ACCUMULATOR AND OTHER REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.

REFRIGERANT PIPING SCHEMATIC-



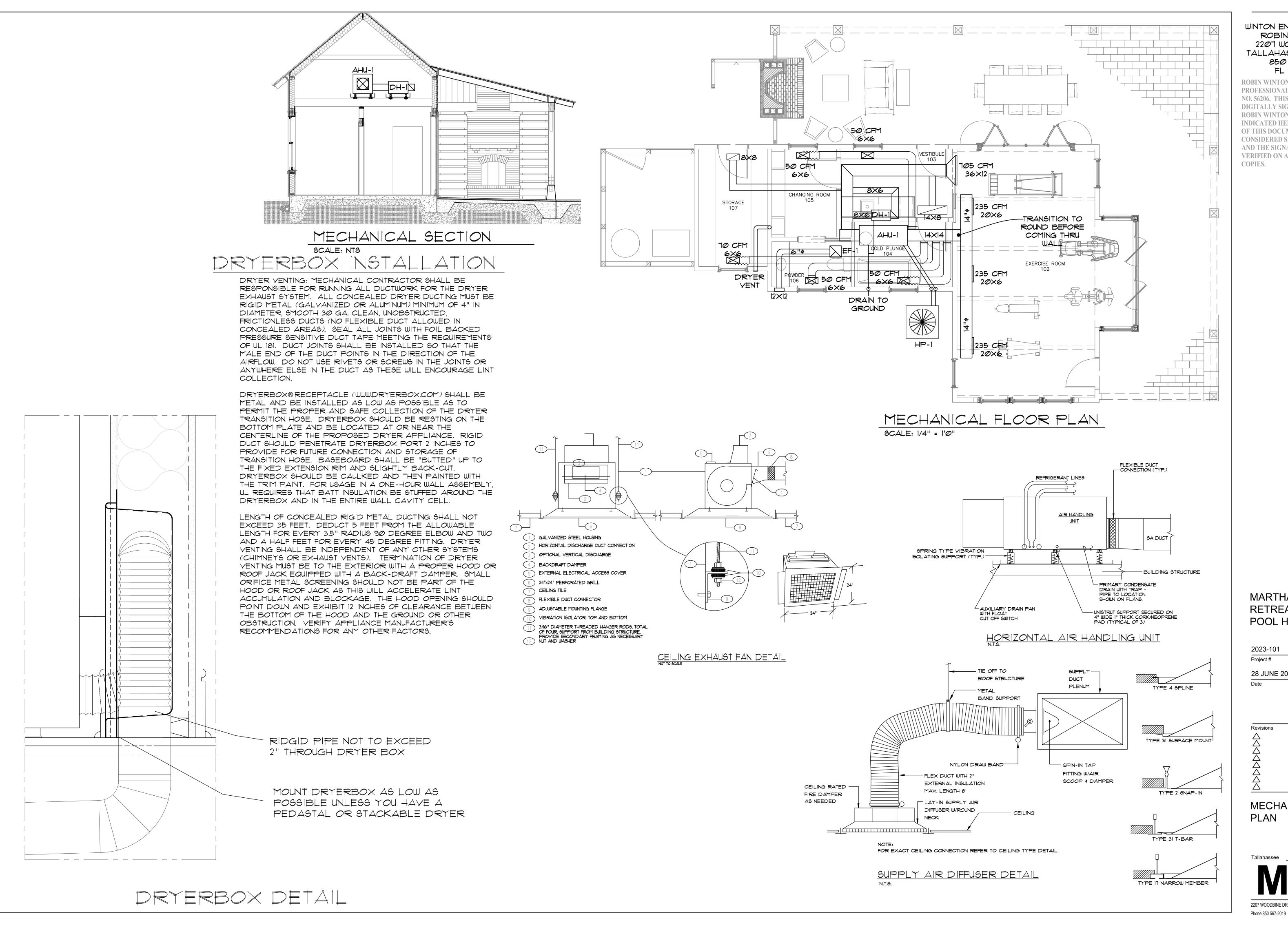
NOTES: 1. INSULATE SUCTION LINE.

2. PITCH ALL HORIZONTAL SUCTION PIPING A MINIMUM OF 1/2" IN 10 FEET IN DIRECTION OF FLOW.

4. WHERE REFRIGERANT PIPING IS NOT SHOWN, ROUTE AS DIRECTLY AS POSSIBLE FROM OUTDOOR UNIT ABOVE GRADE THRU WALL OF MECHANICAL ROOM TO AHU.

SPLIT SYSTEM HEAT PUMP

N.T.S.



WINTON ENGINEERING, PA ROBIN WINTON, PE 2207 WOODBINE DR TALLAHASSEE, FL 32309 850 567-2019 FL # 56206

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MARTHA'S RETREAT **POOL HOUSE**

2023-101 Drawn By: RPW 28 JUNE 2024

MECHANICAL PLAN

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