

THIS PLAN HAS BEEN REVIEWED,
 ENGINEERED AND SUPERVISED BY:
J.C. KOENIG ENGINEERING, INC.
 JOSEPH C. KOENIG, P.E.
 335 GULFVIEW AVE.
 FORT MITER BEACH, FL 33951
 (239) 445-2700 FAX
 (239) 445-2700 FAX

THE OWNER OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION PHASE OF THIS PROJECT AND STRICTLY FOLLOW THE LOCAL BUILDING CODES AND APPLICABLE PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERRORS, OMISSIONS, OR NON-COMPLIANCE OF SUCH CODES AND ORDINANCES IN THE CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT OR CONTRACTOR.

THE ARCHITECT RECEIVED AND IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE TRADE OR OTHER CONSTRUCTION METHODS, FIELD SUPERVISION, JOB SAFETY (OSHA) OR LABOR LAWS REQUIREMENTS. THE ARCHITECT'S RESPONSIBILITY IS LIMITED TO THE RESPONSIBILITY OF THE OWNER, GENERAL CONTRACTOR, OR THEIR DERIVATIVE.

THESE CONSTRUCTION DOCUMENTS, INCLUDING ANY PERMITS AND ANY CONSTRUCTION GUIDE OBTAINED BY THE ARCHITECT, SHALL BE THE PROPERTY OF THE ARCHITECT AND SHALL BE RETURNED TO THE ARCHITECT UPON COMPLETION OF THE PROJECT.

ISSUED FOR:	DATE:
DESCRIPTION:	00, 00 2008
PERMIT SUBMITTAL:	09, 05 2008
PREPARED FOR:	
<p>Barefoot Beach Master Assoc., Inc. No. 1 Barefoot Beach Blvd. Naples, Florida</p>	
<p>PROJECT TITLE: BAREFOOT BEACH MARINE & GUARDHOUSE</p>	
<p>LOCATION: Barefoot Beach Blvd Naples, Florida</p>	
<p>OWNER: Barefoot Beach Assoc.</p>	

DRAWING TITLE:
HVAC PLAN AND
DETAILS

JOB NUMBER: 2008-XXX
 SCALE: AS NOTED
 DATE: JUNE, 2008
 BY: K. MINZEY
 CHECKED BY: J. KOENIG

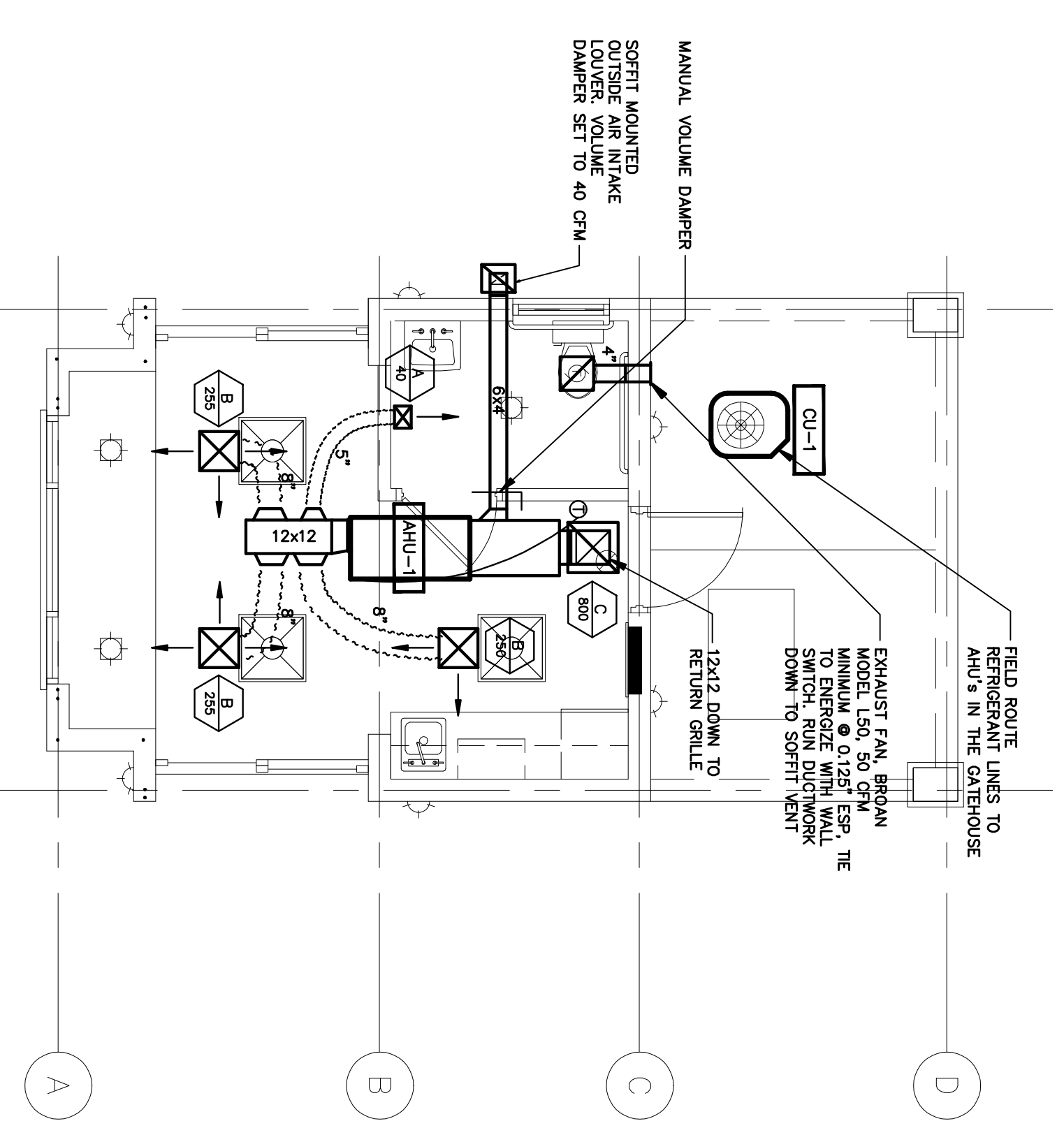
DRAWING NO.: **M-1.0 A**

AIR COOLED SPLIT A/C SCHEDULE	
UNIT DESIGNATION	AHU-1
AREA SERVED	GALE HOUSE
LOCATION	TRUSSES
MANUFACTURER	FEDERICO
MODEL #	CARRIER
TOTAL AIR CFM	760
OUTSIDE AIR CFM	40
INTERNAL STATIC PRESSURE IN. OF H ₂ O	0.50
DESIGN AIR CROSS COIL CFM	760
TOTAL CAPACITY BUD/HR	24,424
SENSIBLE CAPACITY BUD/HR	19,858
ENTERING AIR TEMP. ° F DB/WB	80/67
TYPE AND THICKNESS	1" 1A
HEAT COIL TYPE	ELECTRIC
TOTAL HEATING CAPACITY KW	3
ELECTRIC SERVICE AVAILABLE	240/1
UNIT DISPOSITION	CU-1
TOTAL CAPACITY - BUD	24,000
TYPE OF FAN	PROP
NO. OF FANS AND FAN V/HP	(1) 0.9 F/1A
ELECTRICAL SERVICE AVAILABLE	240/1
MANUFACTURER	Z45R/24
CARRIER	CARRIER
MIN.	13.0

- NOTES:
1. PROVIDE A PROGRAMMABLE THERMOSTAT.
 2. FILTER EFFICIENCY SHALL NOT BE LESS THAN X0X.
 3. PROVIDE ALL UNITS WITH A SINGLE POINT WIRING CONNECTION.
 4. UNITS SHALL BE AS MANUFACTURED BY CARRIER, BRYANT, TRANE OR EQUAL IN ALL RESPECTS.
 5. ELECTRICAL REQUIREMENTS SHALL BE DETERMINED BY THE ELECTRICAL DRAWINGS AND ACTUAL EQUIPMENT REQUIREMENTS.

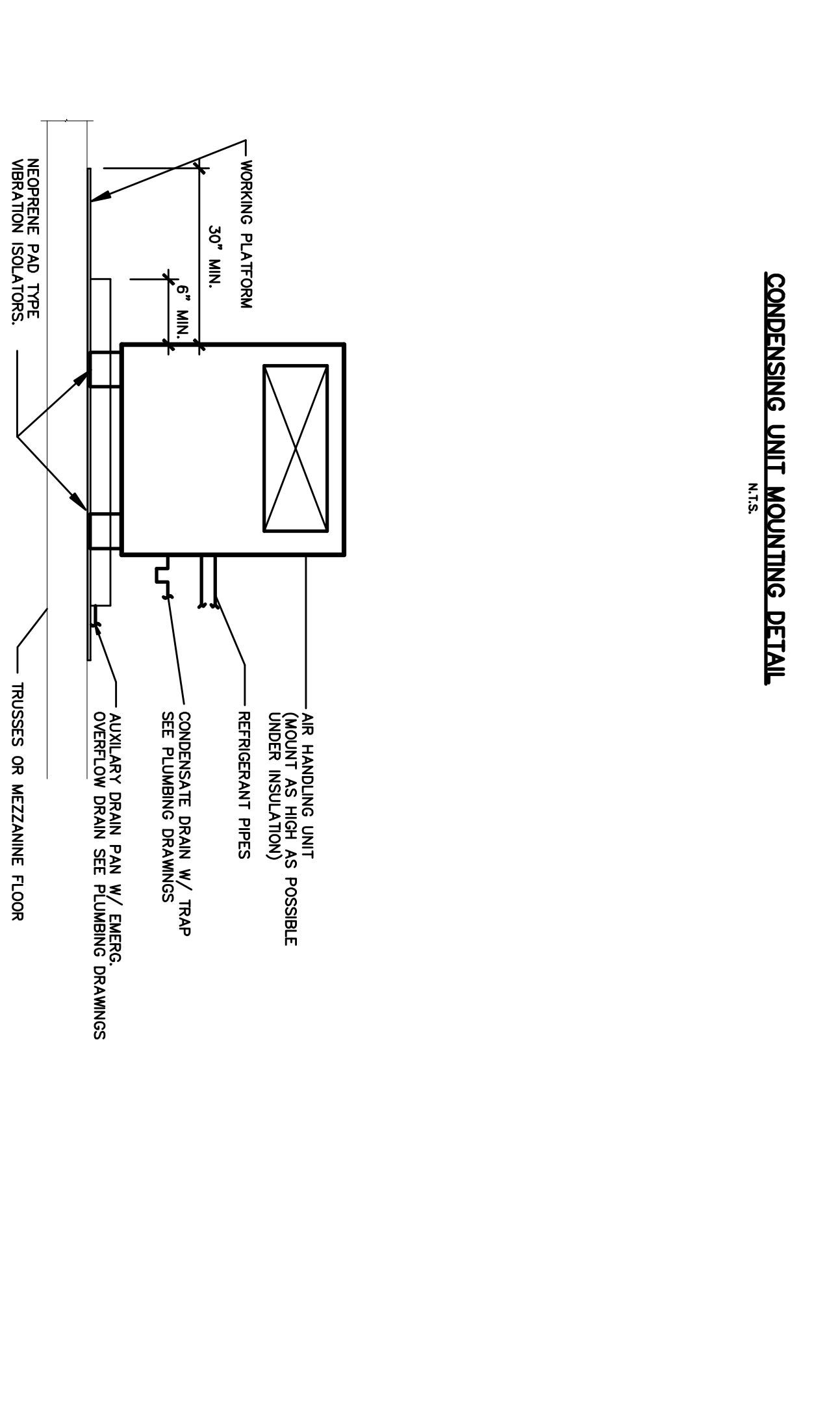
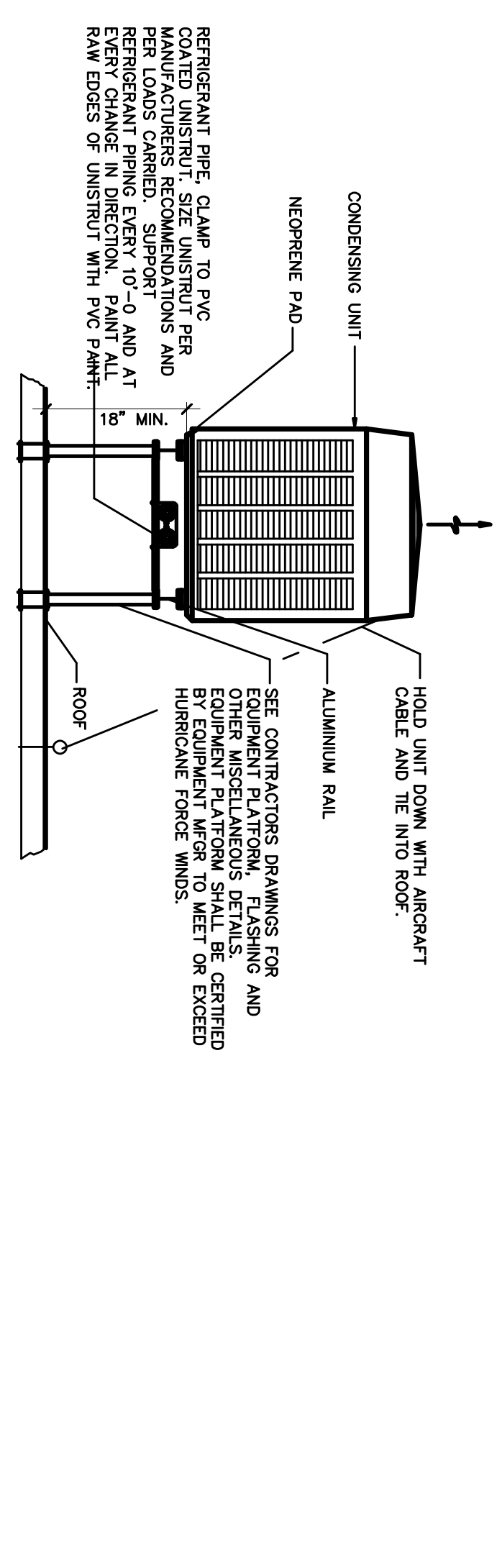
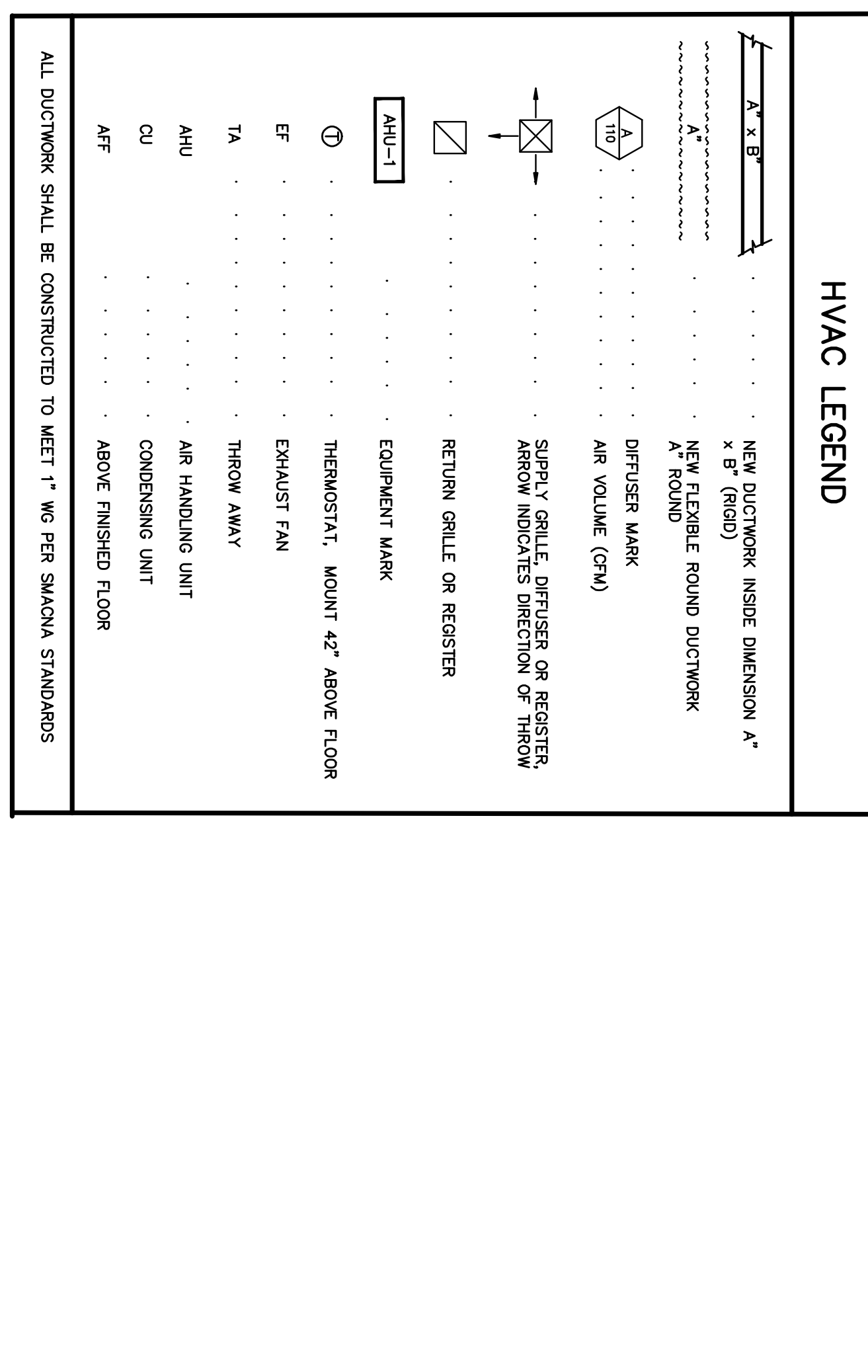
GRILLES, DIFFUSERS AND REGISTERS			
MARK	A	B	C
AIR VOLUME (CFM)	40	250-255	800
MANUFACTURER	PRICE	PRICE	PRICE
MODEL NO.	5210	5202	5202E
SIZE	6"X4	12X12	15X10

ALL DIFFUSERS SHALL BE SIZED SUCH THAT MAXIMUM NC LEVEL SHALL BE 20-23.
 PAINT BEHIND ALL DIFFUSERS, GRILLES AND REGISTERS FLAT BLACK.



HVAC PLAN
 1/4" = 1'-0"

- HVAC GENERAL NOTES
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD BUILDING CODE, FLORIDA ENERGY EFFICIENCY CODE AND ALL LOCAL ORDINANCES.
 2. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, PERMITS, FEES, INSPECTIONS AND INSURANCE ETC. REQUIRED.
 3. CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS, AND SHALL CORRECT WORK WITH ALL OTHER TRADES PRIOR TO FABRICATING DUCTWORK OR INSTALLING EQUIPMENT OR FRANK.
 4. ALL AIR CONDITIONING SUPPLY AND RETURN DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS. MINIMUM INSULATION VALUES AS FOLLOWS IN ATTIC SPACES (R-6)
 5. ALL EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF ZINC COATED GALVANIZED SHEET METAL OR T-FLN AND INSULATED WITH MINIMUM INSULATION VALUES AS FOLLOWS IN ATTIC SPACES (R-6)
 6. ALL REFRIGERANT PIPING SHALL BE TYPE "L" COPPER, TOGETHER WITH SOLDER OR SWEATED JOINTS. JOINTS SHALL BE MADE WITH INSULATION. ALL REFRIGERANT PIPING SHALL BE MADE WITH INSULATION. ALL REFRIGERANT PIPING SHALL BE MADE WITH INSULATION. ALL REFRIGERANT PIPING SHALL BE MADE WITH INSULATION. ALL REFRIGERANT PIPING SHALL BE MADE WITH INSULATION.
 7. FLAME AND SMOKE RATING: ALL INSULATION PRODUCTS USED INSIDE THE BUILDING SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MINIMUM SMOKE GENERATION OF 50 IN ACCORDANCE WITH TESTS APPROVED BY THE STATE FIRE MARSHAL.
 8. VIBRATION ISOLATION: ALL EQUIPMENT AS PER MANUFACTURERS RECOMMENDATIONS OR AS SPECIFIED ON DRAWINGS.
 9. ALL OUTSIDE EQUIPMENT SHALL BE SECURED TO WITHSTAND HURRICANE FORCE WINDS.
 10. FLEXIBLE DUCTWORK SHALL BE ROUND DUCTWORK REINFORCED WITH A WIRE HELIX AND INSULATED WITH 1 1/2" THICK (R-8) FIBERGLASS INSULATION. ALL FLEXIBLE DUCTWORK SHALL BE MADE WITH INSULATION. ALL FLEXIBLE DUCTWORK SHALL BE MADE WITH INSULATION. ALL FLEXIBLE DUCTWORK SHALL BE MADE WITH INSULATION.
 11. ALL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS FROM THE DATE OF COMPLETION OF THE PROJECT.
 12. AIR CONDITIONING SYSTEM SHALL BE BALANCED TO OBTAIN COMFORT CONDITIONS THROUGHOUT ALL AREAS AND TO DELIVER AIR QUANTITIES INDICATED ON THE DRAWINGS.
 13. THERMOSTATS SHALL BE HEAT/COOL PROGRAMMABLE TYPE WITH FAN AND SYSTEM SELECTOR SWITCH ON SUB-BASE. MOUNT 42" ABOVE FINISHED FLOOR WHERE SHOWN. (COORDINATE FINAL LOCATION WITH THE ARCHITECT)
 14. ALL DUCT BENDS GREATER THAN FORTY FIVE (45) DEGREES SHALL BE FITTED WITH TURNING VANES.
 15. ALL DUCT DIMENSIONS INDICATED IN THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
 16. PAINT BEHIND ALL GRILLES, DIFFUSERS AND REGISTERS FLAT BLACK.



HORIZONTAL AIR HANDLING UNIT MOUNTING DETAIL
 N.T.S.