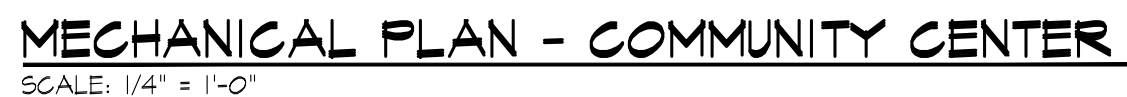


MECHANICAL NOTES

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE STATE AND LOCAL MECHANICAL CODE, THE INTERNATIONAL RESIDENTIAL CODE, THE STATE ENERGY CODE, NFPA 90A, 101 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
3. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT BEFORE ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED ON THE DRAWINGS.
4. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT AND SUBMIT SHOP DRAWINGS TO ARCHITECT, AND SHALL FURNISH EQUIPMENT WIREED FOR THE VOLTAGES SHOWN THEREIN.
5. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE WITH EQUIPMENT CHARACTERISTICS AND ELECTRICAL DRAWINGS.
6. ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
7. UNLESS NOTED OTHERWISE, STARTERS, SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
8. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
9. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
10. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.
11. FOR EXACT LOCATION OF OUTDOOR AIR CONDITIONING UNITS SEE ARCHITECTURAL DRAWINGS.
12. INSTALL OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL ON FIBERGLASS FOUNDATION PROVIDED BY MECHANICAL CONTRACTOR.
13. DUCTWORK SHALL BE FLEX-VENT INSULATED FLEXIBLE DUCTWORK. R-6.0 MIN.
14. ALL DUCTWORK IN NON-AIR CONDITIONED AREAS AND MECHANICAL ROOMS SHALL BE INSULATED WITH 2" THICK FIBERGLASS DUCT INSULATION WITH FOIL VAPOR BARRIER OR VINYL, U.L. LISTED, MINIMUM R-6.0.
15. EXHAUST DUCTWORK SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE.
16. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.
17. DUCTWORK TO BE SIZED AND WARRANTED BY MECH. CONTR. FOR BALANCED AIR DISTRIBUTION.
18. REFRIGERANT PIPING SHALL BE TYPE I OR REFRIGERATION SERVICE COPPER TUBING WITH SILVER SOLDER JOINTS. SECTION PIPING SHALL BE INSULATED WITH 3/4" MANVILLE AEROTUBE II PIPE INSULATION SLID OVER TUBING WITHOUT CUTTING. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE. UNLESS NOTED OTHERWISE.
19. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST FLOOR DRAIN OR TO EXTERIOR DRY WELLS. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS).
20. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE PROPER AIR QUANTITIES.
21. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURE AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE OWNER.
22. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC.



* 90 Degree elbows should be used at these "V" box connections.

AIR HANDLER

MARK	RUUD MOD. NUMBER	VOLTS	MCA	BRK	TOTAL CFM	MIN. O.A. CFM	MAX. FAN HP	ESP	MBH TOT. COOL	MIN. SEER	HEATER
AH48	RHPL-HM 2421JA	230	4	20	773	10%	1/2	0.5	24	16	

NOTE: THIS PROJECT SHALL COMPLY WITH THE MODEL ENERGY CODE.

GENERAL NOTES:

1. THE COPPER LINE SETS FOR EACH AIR HANDLING UNIT SHALL BE RUN UNDER THE FLOOR SLAB TO THE MATCHING OUTDOOR CONDENSING UNIT. ALL COPPER UNDER THE SLAB SHALL BE CONTINUOUS AND NOT CONTAIN JOINTS.

2. THE ELECTRICAL DISCONNECT FOR EACH CONDENSING UNIT SHALL BE MOUNTED ON THE NEAREST EXTERIOR WALL.

3. PROVIDE MANUAL VOLUME DAMPER AT EACH 5" DUCT FOR BALANCING

ELECTRIC HEAT PUMP

MARK	NET COOLING CAP.(MBH)	AMBIENT °F	ELECTRICAL					RUUD MFG. & MODEL NO.	REMARKS
			VOLTS	Hz	PH	MCA	BRK		
HP	24	95	230	60	1	14	20	UPRL-24JEC	




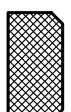

PROVIDE MATCHING COOLING COIL FOR EACH UNIT.

PROVIDE TRADELINE PROGRAMMABLE HEAT PUMP THERMOSTAT MODEL T861

PROVIDE RUBBER ISOLATION/VIBRATION PADDING UNDER ALL AIR HANDLERS.

PROVIDE COMPLETE SYSTEM IN ACCORDANCE WITH W-90-A & 90-B.

PROVIDE START KIT FOR EACH CONDENSING UNIT.

MECHANICAL LEGEND		
MARK	SIZE	DESCRIPTION
	BY MECH. CONTR.	HART & COOLEY CEILING MOUNTED LOUVERED FACE DIFFUSER
	BY MECH. CONTR.	HART & COOLEY HINGED WHITE ALUMINUM LOUVERED FACE WALL MTD. FILTER R/A GRILLE
	N/A	HONEYWELL, OR EQUAL HEATING.COOLING THERMOSTAT
 RHV	PER SPECS.	30 INCH BROAN RANGE HOOD - MODEL 413001 NO VENTING REQUIRED
 V/L	PER SPECS.	BROAN VENT/LIGHT MODEL 678 VENT THRU ATTIC.