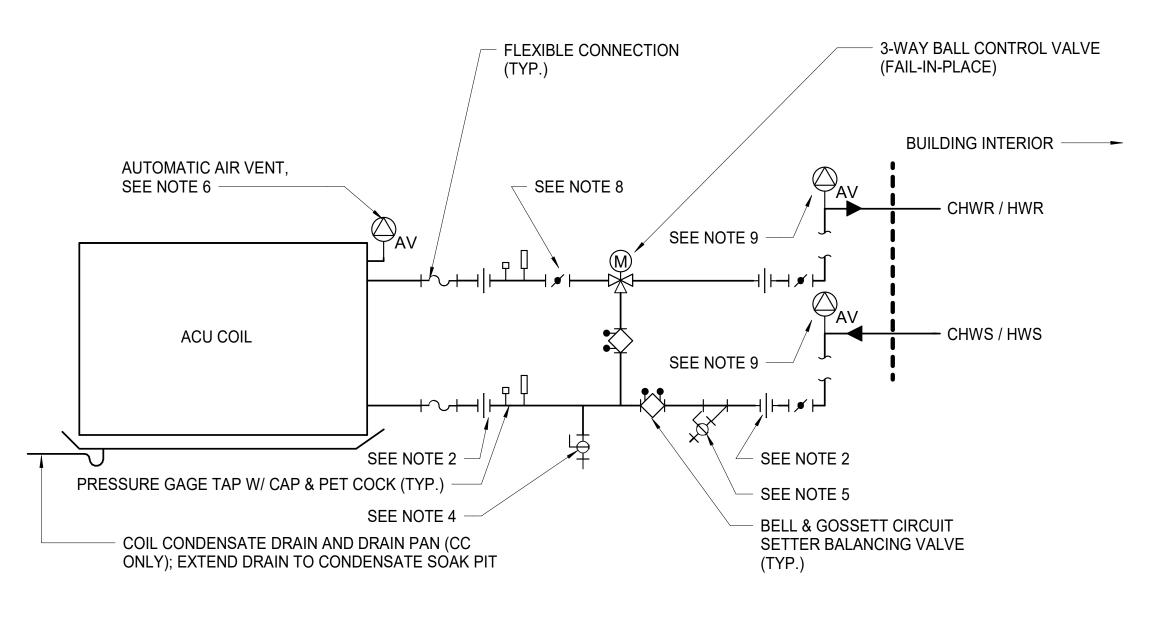


## NOTES:

- 1. SUBCONTRACTOR IS RESPONSIBLE FOR DETERMINING REFRIGERANT LIQUID AND SUCTION PIPE SIZES AND ROUTING. ALL REFRIGERANT PIPING MUST BE SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 2. SLOPE SUCTION GAS PIPING IN DIRECTION OF FLOW: 1/2" PER 10 FEET.
- 3. FURNISH AND INSTALL OIL TRAP WHERE VERTICAL LIFT EXCEEDS 8'-0". FURNISH AND INSTALL ADDITIONAL INTERMEDIATE OIL TRAP EVERY 18'-0" OF VERTICAL RISE.
- 4. FURNISH AND INSTALL THERMOPLASTIC ELASTOMERIC CUSHIONS RATED FOR NO LESS THAN 275 DEGREES F AT ALL ANCHORS.
- 5. FURNISH AND INSTALL ACR CLEAN AND DEHYDRATED HARD K OR L COPPER PIPING. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 6. SYSTEM IS A HEAT PUMP TYPE SPLIT SYSTEM. INSULATE BOTH SUCTION AND LIQUID PIPING WITH ARMAFLEX SHIELD OR EQUAL INSULATION. PAINT ALL EXTERIOR REFRIGERANT PIPE INSULATION WITH ARMAFLEX WB FINISH PAINT - WHITE OR EQUAL.
- 7. SOME DEVICES SHOWN ARE NOT REQUIRED FOR ALL SPLIT SYSTEMS. ADHERE TO MANUFACTURER PIPING INSTALLATION INSTRUCTIONS WHERE THERE IS A DISCREPANCY.



DX SPLIT SYSTEM PIPING - EVAPORATOR ABOVE COMPRESSOR SCALE: NO SCALE SHOWN



## NOTES:

- 1. INDIVIDUAL PIPE SIZES MUST BE THE SAME SIZE AS THE COIL TAPS OR SIZED FOR MAXIMUM VELOCITY 4 FEET PER SECOND.
- 2. LOCATE FLANGES AND UNIONS TO ALLOW FOR REMOVAL OF COILS AND CONTROL VALVES. ARRANGE PIPING, VALVES, AND JOINTS TO PERMIT REMOVAL OF COIL FROM ACU. MAINTAIN 4'-0" CLEAR DIRECTLY IN FRONT OF UNIT ELECTRICAL PANELS AND FURNISH AND INSTALL SUFFICIENT CLEARANCE IN FRONT OF UNIT ACCESS PANELS FOR UNIT ACCESS.
- 3. ALL COILS MUST BE PIPED FOR COUNTERFLOW ARRANGEMENT; I.E. HOTTEST WATER ENTERS COIL NEAREST COIL FACE WHERE HOTTEST AIR LEAVES, COLDEST WATER ENTERS COIL NEAREST COIL FACE WHERE COLDEST AIR LEAVES.
- 4. FURNISH AND INSTALL 3/4" BALL VALVE WITH 3/4" HOSE CONNECTION FOR DRAINING AND FLUSHING. ALL COIL DRAIN CONNECTIONS MUST BE INSTALLED THROUGH HVAC UNIT CASING TO PERMIT COMPLETE DRAINAGE OF COILS FROM UNIT EXTERIOR. TYPICAL ALL DRAIN AND FLUSH CONNECTIONS.
- 5. FURNISH AND INSTALL STRAINER WITH 3/4" BALL VALVE WITH 3/4" HOSE CONNECTION FOR FLUSHING. TYPICAL ALL STRAINERS.
- 6. VENTS MUST BE INSTALLED THROUGH HVAC UNIT CASING TO PERMIT COMPLETE VENTING OF COILS FROM UNIT EXTERIOR. TYPICAL ALL VENT CONNECTIONS.
- 7. STRAIGHT LENGTHS OF UNOBSTRUCTED PIPE WITHOUT INLINE APPURTENANCES MUST BE INSTALLED UP AND DOWNSTREAM OF FLOW CONTROL BALANCING VALVES PER MFGR. INSTALLATION INSTRUCTIONS.
- 8. ALL ISOLATION VALVES 2" AND SMALLER MUST BE BALL VALVES. ISOLATION VALVES 2-1/2" AND LARGER MUST BE BUTTERFLY VALVES. REFER TO SPECIFICATION SECTION 23 05 23 - "GENERAL DUTY VALVES FOR HVAC PIPING" FOR MORE INFORMATION.
- 9. INSTALL AUTOMATIC AIR VENTS AT HIGHEST POINT IN SYSTEM.



SCALE: NO SCALE SHOWN

**ACU SINGLE HYDRONIC COIL, 3-WAY CONTROL VALVE** 

MECHANICAL DETAILS

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