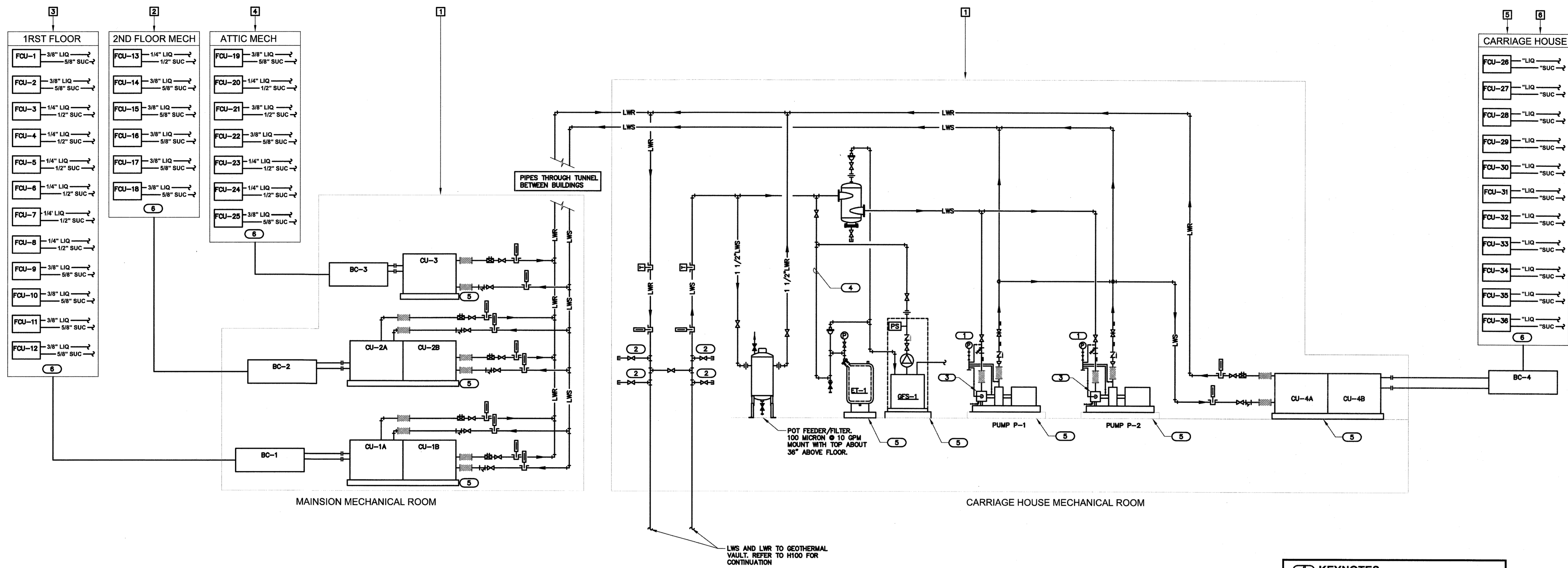


**TERRACE HILL MANSION AND CARRIAGE HOUSE  
MECHANICAL SYSTEMS UPGRADE  
2300 GRAND AVENUE  
DES MOINES, IA**

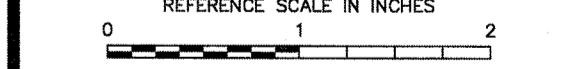


**1 LOOP WATER FLOW DIAGRAM**  
NO SCALE

- KEYNOTES**
1. PRESSURE GAUGE WITH SNUGGER PER SECTION 23 21 00. INSTALL WITH MOUNTING ON WALL STAND, OR VIBRATION-FREE PIPE ABOVE BRACKET PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE:  
(1) JUST UPSTREAM OF STRAINER.  
(2) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET.  
(3) GAUGE TAPPING ON PUMP INLET FLANGE.  
(4) GAUGE TAPPING ON PUMP OUTLET FLANGE.
  2. PROVIDE 2 1/2" OR LARGER CONNECTIONS FOR CONNECTION OF FIRE HOSES FOR FLUSHING AND CLEANING OF SYSTEM, IF CHEMICAL CLEANING IS NOT USED.
  3. REMOVE TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION.
  4. SIZE PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
  5. 4" CONCRETE BASE BY M.C.
  6. VERIFY FINAL REFRIGERANT PIPE SIZING WITH MANUFACTURER REQUIREMENTS BASED ON FINAL SYSTEM SELECTION.

NO.	DATE	REVISION	DESCRIPTION

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DESIGNED BY	DRAWN BY	CHECKED BY
JAKCUN	JOHGRE	BREHUS

PROJECT NUMBER	DATE
10.0005.00	02-23-11

SHEET DESCRIPTION  
**FLOW DIAGRAMS**

SHEET NUMBER  
**H400**