



UNIVERSITY OF PENNSYLVANIA
FACILITIES SERVICES
3101 WALNUT STREET
PHILADELPHIA, PENNA. 19104-6289

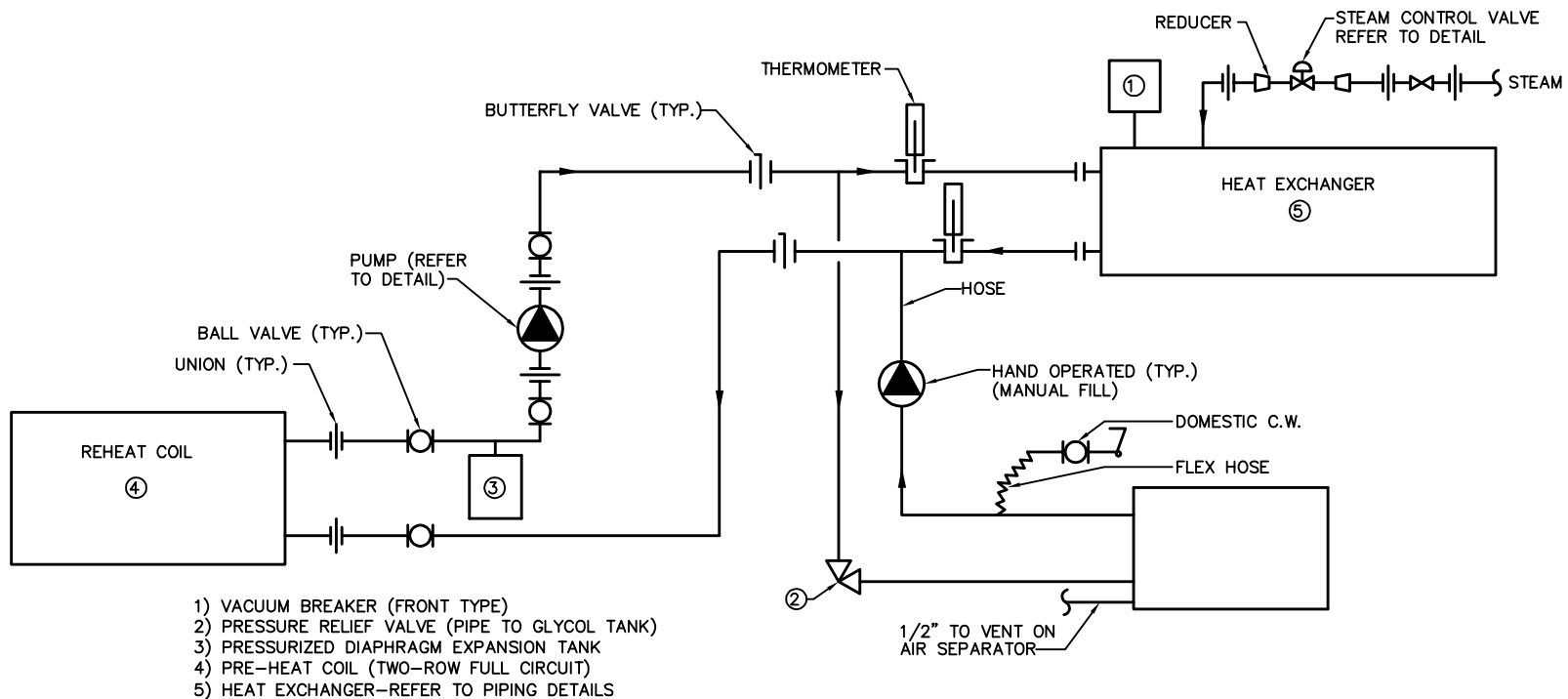
MASTER DETAIL
HVAC DEPARTMENT

TITLE GLYCOL SYSTEM DIAGRAM
FOR SINGLE PRE-HEAT COIL

DATE
08-01-12

REV DATE

FILE NO.



- 1) VACUUM BREAKER (FRONT TYPE)
- 2) PRESSURE RELIEF VALVE (PIPE TO GLYCOL TANK)
- 3) PRESSURIZED DIAPHRAGM EXPANSION TANK
- 4) PRE-HEAT COIL (TWO-ROW FULL CIRCUIT)
- 5) HEAT EXCHANGER-REFER TO PIPING DETAILS

SEQUENCE:
WHENEVER O.A. TEMPERATURE IS BELOW
50 F, THE CIRCULATING PUMP IS ENERGIZED
AND THE STEAM VALVE (VPH) IS CONTROLLED
TO MAINTAIN THE DISCHARGE TEMPERATURE.
WHEN THE O.A. TEMPERATURE IS ABOVE 50 F,
THE PUMP IS OFF AND VHP IS CLOSED.



GLYCOL SYSTEM DIAGRAM FOR SINGLE PRE-HEAT COIL

SCALE: NTS