CENTRAL PLANT PUMP REPLACEMENT

1. Demolition of Existing Equipment and Piping

2. Centrifugal Pump Replacement

6 – Base mounted pumps (3 – 75 Hp, 3 – 50 Hp)
3 – Base mounted pumps (3 – 30 Hp)
2 – in-line overhead mounted pumps (5 Hp)
2 - in-line pumps (booster) in D module (7.5 Hp)

3. Expansion Tank Replacement

3- (250 gallon) Horizontal Expansion Tanks

4. Heating Water Separation Tank Replacement

6" pipe connection (centrifugal separator) – approx. – 24" dia., 42" tall.

5. Piping, Valve and Gauge Replacement

Approx. 530 ft. of Heating, Chilled, and Condenser water piping in plant, approx.
Approx. 80 ft. of heating water piping in Module B between crawlspace and pump room.

6. VFD Installation

3 new 30 Hp VFDs in central plant for heating water pumps.
2 new 7.5 Hp VFDs in D Module for In-line booster pumps.

7. Monitoring Control Panel & Energy Management System Upgrade To Accommodate New Equipment Installation

Adding 1 modulating main HW control valve in central plant, 2 pumps, 2 VFDs, and additional sensors for booster pumps and sequences of operation. New control panel in Module D pump room.

8. Insulate & Tag all new Piping & Equipment

9. Mechanical System Testing, Adjusting & Balancing HVAC Equipment

10. Replace HVAC water treatment

11. Extend existing pump pads to accommodate new motors

12. Replace heating water chemical shot feeder

13. Revise electrical wiring and starters for the 3 HW distribution pumps to run off VFDs.