COMPONENTS

1. Flexible pipe coupler / typical in multiple locations
2. Gate valve / typical
3. Fire pump
4. Check valve/typical
5. Tank Suction Sump with anti-vortex plate
6. Retaining wall outside pump vault
7. Entry door
8. Pump room vault in hillside or berm
9. Manway with 4” locking inspection hatch
10. Jockey pump suction fitting (pump not shown)
11. Tank refill inlet float valve
12. Site glass on recirculation line
13. Pressure relief valve
14. Pump control cabinet
15. Pump motor
16. Floor sump with automatic pump
17. Mechanical water level gauge
18. Pliable water stop material or Link-Seal to isolate pipes from vault wall
19. Insulate ceiling and exposed walls with foam board
20. Tank vent

IMPORTANT
This layout is conceptual but typical of such systems. All fire protection sprinkler designs must be engineered for each specific building application and approved by the Local Authority Having Jurisdiction. Jockey pump and hose line header omitted for clarity. Vaults may require an air exchange blower, heater, or dehumidifier.

ABBREVIATED PLUMBING FOR CLARITY
NOT TO SCALE, FOR ILLUSTRATION ONLY