

# Hibbing Water Tower Improves Fire Flows

The existing 300,000 gallon Ansley elevated storage reservoir in the City of Hibbing had lead paint and structural damage. The Hibbing Public Utilities Commission decided to replace this tower with a 1.0 million gallon elevated tower to improve the fire flows in the western part of the City.

Progressive Consulting Engineers (PCE) was selected to develop a computer model of the distribution system to determine the optimum location of the tower and to develop plans and specifications for the new tower.

A 21-day extended period simulation was run to determine how the new tower would work with the existing towers and to ensure that the new tower would have enough “bounce” to prevent freezeup.

The tower design included an insulated riser pipe to avoid pipe freezeup during extreme Minnesota winters.

Plans and specifications were prepared for the construction of the tower and connecting watermain. Specifications for demolition of the existing 300,000 gallon tower were also prepared.

Digital imaging techniques were used to show the residents how the new tower would look on the site. This was necessary for acceptance of the project by the residents and the City.

PCE obtained approval from the Federal Aviation Administration and the Minnesota Department of Health for the new tower.

The project was bid in January 2001 and construction of the new tower was completed in August 2003. The existing 300,000 gallons tower was demolished later in the year.

**Client: Hibbing Public Utilities Commission**

**Client Contact: Corey Lubovich**

**Year Completed: 2003**

**Bid : \$1,270,800    Final Construction Cost: 1,274,660    Change Order: 1.0%**



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