

Cloquet Water Tower Improves Fire Flows

The City of Cloquet water system includes a 125,000 gallons elevated storage facility built in 1916. The only elevated storage facility in the City was in need of structural rehabilitation and repainting. The storage facility was also inadequate to meet the fire demands.

The City directed PCE to update the model of the City water distribution system. The model showed that the City needed additional storage to meet the domestic and fire flow demands. The model was also used to identify a potential location for a new 1.0 million gallon reservoir. On completion of the study, the City selected PCE to design the new tank and the connecting watermain and to prepare plans and specifications for the new tower. The project also included the demolition of the existing tank, which was demolished after the construction of the new tank. The design of the project was completed in 2001 and the project was bid in December 2001. The City Council awarded the contract in January 2002 to CB&I for \$1,538,000.



The design services had met the American Water Works Association criteria, ASTM standards, City of Cloquet planning and zoning requirements, Minnesota Department of Health regulations, and the Federal Aviation Administration requirements.

The Contractor completed the construction of the 20' connecting watermain in the summer of 2002 and poured the foundations and started the erection of the tower.

After the tower was put into service in late 2003, the existing tower was removed from service and demolished. The new tower with its new logo enhances the identity of the City.

Client: City of Cloquet

Client Contact: Jim Prusak, Director of Public Works

Year Completed: 2002

Bid: \$1,538,005 Final Construction: \$1,530,487 Change Orders: .99%



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