*Removal of existing poured-in-place concrete*

**Cost Estimate:**
$767,000

**Construction Cost:**
$773,000

**Project Features:**

- 4,700 lineal feet of 12” & 16” diameter watermain
- Bore and jack 24” steel casing pipe under railroad
- Bore and jack 30” steel casing pipe under Route 47
- Permitting from Illinois Railnet
- Traffic control
- System tie-ins via pressure connections
- Numerous service connections
- Public meetings
- Easement acquisition

Particularly challenging in the construction of the Mill Street and Van Emmon Street Water Main was the fact that Mill Street is located in an existing residential area and Van Emmon Street is located in an existing downtown commercial area in Yorkville, Illinois.

The project was performed as part of a system-wide improvement program to upgrade the City’s distribution main system, replacing existing 4 inch and 8 inch diameter water mains with 12 inch and 16 inch diameter water mains that interconnected with an existing 12 inch diameter water main just south of the Fox River.

The project was additionally demanding because construction was occuring in existing areas that contained only partial records of existing underground utilities. A number of unrecorded utilities such as gas, water main, storm and sanitary sewers were encountered and had to be analyzed to determine the necessity of repair.

*Water main connections*

Other construction challenges included installation of water main under Route 47 and Illinois Railnet Railroad utilizing bore and jack methods; performing traffic control; maintaining access to the existing commercial entities;installing pressure connections to existing water mains ranging in size from 4 inches to 12 inches in diameter; reconnecting many services; abandonment of old water main; and restoration of pavement, sidewalks, curb and gutter, and landscaping.