



## PROJECT PROFILE

## Elk Rapids Street Project



**CHALLENGE:** Age of water system, frost concerns

**SOLUTION:** New water system for the town

**OWNER:** Village of Elk Rapids

**CONTRACT AMOUNT:** \$3,391,016

**DESIGN ENGINEER:** Gosling-Czubak, Tim Korson

**ENGINEER CONTACT:** 231-946-9191

**LOCATION:** Elk Rapids

**DATE STARTED:** 4-4-2018

**DATE COMPLETED:** 5-10-2019

**SELF-PERFORMED:** 92%

**PARTNERS:** Bella Concrete and Roemer Utility

## BY THE NUMBERS

Watermain: 17,153 feet

Sanitary Sewer: 2,363 feet

Storm Sewer: 498 feet

Hydrant Assemblies: 27 each

Concrete Sidewalk Removal & Replacement: 28,798 sq. feet

Curb & Gutter: 1,407 feet

Bituminous Restoration: 7,867 ton

Crush & Stockpile Bituminous Pavement: 40,690 sq. yard

**Elk Rapids was ready** for a new water main — the old cast iron material was about 75 years old — and with 18 miles of water main in the village of Elk Rapids, it was time to get started.

Team Elmer's was the low bidder on the project to install 3.2 miles — that's about 20% — of brand new water main, fire hydrants, and water services for commercial and residential properties. It was a big

job, requiring excavation, detours, and reconstructing roads. All with careful planning and communication with the owners and public users.

The old water main was 4-inch cast iron, which was causing many problems for the residents of Elk Rapids. The water volume was very low. Water had an orange tint to it, making it unappealing for drinking from the tap. The pipes were not buried deep enough and at only five feet, the pipes were susceptible to breakage during the freezing winter months.



## TEAM ELMER'S PROJECT PROFILE | Elk Rapids Street Project

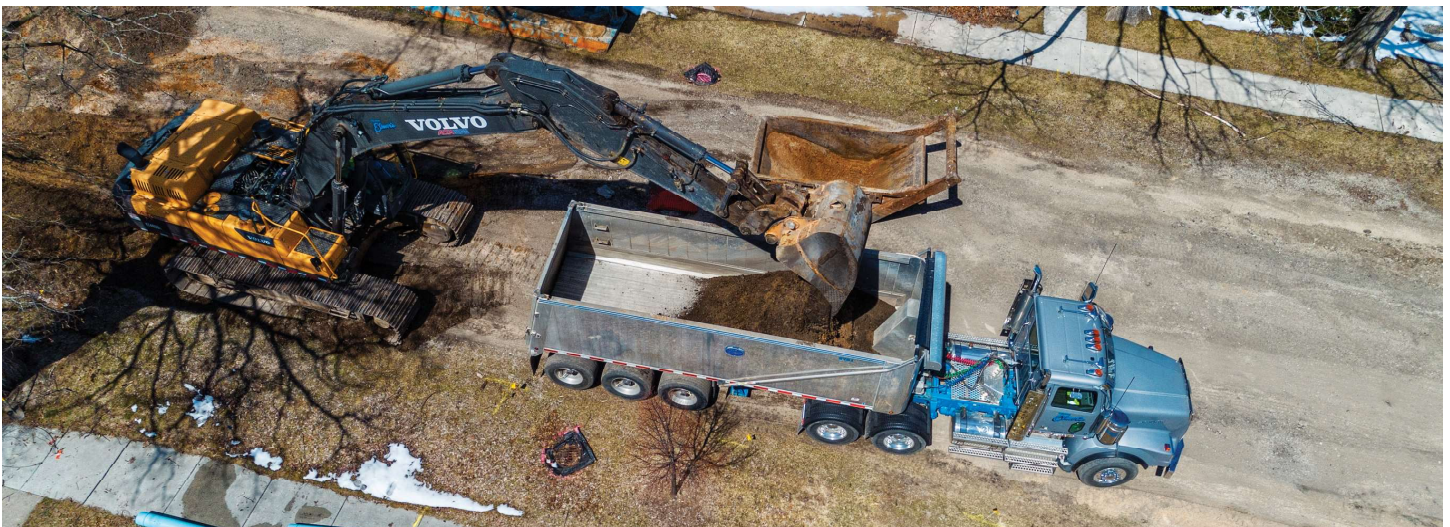
Now, the village of Elk Rapids has new 8-inch PVC water main and water services, which is providing a better volume of water and clean, safe drinking water for the village. The new fire hydrants also have a high volume, which is important for firefighters and public safety. The pipes are six feet deep, keeping them safer from the harsh elements of northern Michigan. Engineers designed a lower profile for the new system.

In addition to installation, Team Elmer's restored roads and landscaping. During the segmented staging of the project, local traffic was maintained for owner access or rerouted as needed. A successful project for generations of use.

"My home is in the old part of the Village of Elk Rapids. For the last couple of months I've had a front row seat to your crew replacing water mains in my neighborhood.

I want to compliment your crew for their responsible method of carrying out the work and their workmanship. I've been particularly impressed with the care that the equipment operators and truck drivers take as they travel the residential streets."

— Elk Rapids Resident



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