

Case History Series #003

At 75' Below Ground, Repair Proves To Be One Of The Deepest CIPP Jobs Ever

Situation:

For more than 100 years, a 60" diameter brick-combined sewer, on Milwaukee's north side, faithfully did its job. However, the passage of time had started to take its toll. Buried 75' deep, in the late 1800's, calcium and other mineral deposits were beginning to build-up. It was decided that something had to be done now.

Problem:

Considering the depth, the city could not risk the cost of an emergency repair on a collapsed line. Estimates placed the cost at roughly \$1.5 - \$2 million. Tunneling also proved too expensive. Finally, the depth of the line itself limited the available methods of repair.

Solution:

The city ultimately selected Visu-Sewer Clean & Seal, Inc. to perform the 758' repair using the National Liner® CIPP system. After a thorough inspection, the contractor recommended a 60" OD, 42 mil thick liner to be installed and inverted against the brick sewer inner wall. Soil conditions proved to be tougher than expected. It took 18 days to dig a shaft for the liner to be installed through. By project completion, more than 120,000 lbs. of AOC polyester resin was required to impregnate the liner. An additional 200,000 gallons of water was used to invert the liner through the 758' brick sewer. The city of Milwaukee was pleased with the outcome. The project was completed on time and on budget... with minimal disruption to the surface environment and traffic flow.

For more information: Contact National Liner, LLC at 281-874-0111.

