



SLIPLINING AGING WATERMAIN SAVES MONEY AND TIME



PROJECT OVERVIEW

Every drop of water is precious in the Sonoran Desert. The City of Phoenix saved time and money by selecting sliplining as the repair option. Thompson Pipe Group manufactured and delivered approximately 1-mile of 56" steel liner pipe so that an existing 60" watermain could have renewed life. The installation was successfully completed by Achen-Gardner Construction, an Arizona-based heavy civil contractor.

City engineers had other options. They could have replaced or realigned the watermain. Speed, affordability and limited disruption of traffic and commerce led to the approval of sliplining as the preferred installation method. By sliplining the existing main, excavation was minimized allowing the pipe to go into the ground quickly with no disruption to urban life above.



METHOD SELECTION – WHY SLIPLINING?

A pipe is sliplined when a new carrier pipe is inserted into a larger existing in-situ pipe. After installation of the new carrier pipe, the annular space between the two pipes is grouted and the pipeline is returned to service. This has been a commonly used method for rehabilitating sanitary sewers, and in recent years has become more commonplace in watermain replacement.

BENEFITS OF SLIPLINING

- ▶ Quick repair method
- ▶ Affordable – as compared to open trench options
- ▶ Restores stability and adds life to aging, distressed or deteriorating infrastructure
- ▶ Reduces traffic disruption and remediation
- ▶ Less environmental disruption



RESULTS

Thompson Pipe Group manufactured and delivered 220 pipe segments. The company partnered with Sonoran Sales, Achen-Gardner Construction and Wilson Engineers. Sliplining offered a way to extend the life of the transmission main by effectively replacing it from the inside. The pipe returned to operation within a few months.



Photos Courtesy Achen-Gardner Construction