

Dallas Water Utilities Repairs Aging Water System

*72,000 linear feet
of water line
replacement*

The City of Dallas – Water Utilities (DWU) selected RJN Group, Inc. to perform one of the largest water distribution system rehabilitation design projects in the City. The project originated from the request by DWU’s water distribution division to replace lines with repeat point repairs and high maintenance costs. The goals of the project are to replace the old and undersized water lines, provide adequate pressure for fire protection, and provide a better water looping system.



RJN was selected by DWU based on its:

- Experience with utility rehabilitation design projects
- Experience with trenchless technologies
- Experience with successful DWU projects and DWU's design and construction specifications and standards
- Reputation for providing high quality design services

The project included replacement of 72,000 linear feet of water lines ranging from 8- to 16-inches in diameter. Many of the lines requiring replacement are located in back yards with no apparent easement or alleys. Some water lines are located on busy streets with heavy traffic flow.



The replacements method took these areas into consideration. Throughout the project, RJN ensured that the type of construction chosen made disturbance to homeowners and businesses in the area as minimal as possible. An extensive public relations program was used and included door-to-door contact, presentations at neighborhood meetings, public meetings, education programs, and internet communications.

Engineering services included preliminary and final engineering design, plan and profile water line design, special services (nondestructive subsurface utility engineering, preparation of railroad and highway permits, environmental database research to locate and identify contaminated soil, and partnering meetings), and construction administration.