

Hart County Water and Sewer Authority Airline Area Waterline and Connector Project Hart County, Georgia

Services Provided:

Preliminary Planning
Funding Procurement
Surveying
Engineering Design
Permitting
Bid Phase Management

Project Data:

500,000-Gallon elevated storage tank 2 Booster Pumping Stations 2 Pressure Reducing Valves 31,000 LF of Waterline

Total Project Cost: \$2.2 Million

Date Completion: May 2016

Contact:

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The Hart County Water and Sewer Authority had one 500,000-gallon tank for water storage, which was capable of providing the water storage, flow, and pressure needs of the system. However, this tank had an overflow elevation of 1,000 feet, and was not capable of providing adequate pressure to Airline area which has a higher elevation than that of the Authority's existing water system.

The Authority, utilizing EMI, decided to extend the water distribution system into the Airline area, create a water loop in the water system, and install a 500,000-gallon elevated water tank at 1,100 feet.

EMI assisted the Authority in obtaining a \$1.78 million GEFA loan with \$444,340 in principal forgiveness funds for the project. EMI also provided surveying, design, and bid phase coordination for the project.

The Geotechnical Subsurface Evaluation of the first proposed site for the water tank concluded in poor soils for weight-bearing capacity, therefore, the EMI design team and the Authority selected and negotiated a secondary site for the elevated water tank.

The project extending the public drinking water supply into an unserved region, created additional water storage, created an additional loop in the system, and provided an additional wholesale water supply source. With the completion of the project, the Authority's was able to reduce substantial pressure drops within the existing system and enhanced system reliability in the water system by providing redundancy and reliability for the entire system.