

WATER DISTRIBUTION SYSTEM RECAPITALIZATION

Project Number: WS-10
Fund: Water and Sewer Fund

Department: Public Works - Water Division
Function: Public Works

Description:

The City of Bowie operates a public water utility that serves approximately 7,900 customers. The water distribution piping suffers from significant corrosion that has caused degradation of water quality and in some cases reduced flow rates.

Water meters need to be updated to simplify meter reading and improve metering accuracy. This multi-year project will complete system hydraulic evaluations needed to validate needed pipe replacements, investigate alternative methods for replacing water mains and ultimately replace approximately 7.5 miles of the City's water main in order to improve flows and water quality.

In addition, the project will replace all water service meters with modern meters to simplify meter reading and improve metering accuracy.

The City anticipates borrowing \$4.9 million in FY2021 to fund the replacement of damaged water pipes and to replace water meters throughout the City.

Location:

Various.

Project Funding for Budget Year 2018:

\$675,000

Council Action History:

This project was first authorized in Fiscal Year 2018.

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Project Cost Summary

Fiscal Year	Expenditure Detail (20350-57015)	Total
Thru 2016		-
2017 (Est.)		-
2018	Hydraulic modeling (\$100,000); Design for 2019 pipelining project (\$50,000); Pipe replacement Liana Place (\$250,000); Meter replacement (Year 2 of 7) (\$275,000).	675,000
2019	Design for 2020 pipe replacement project (\$70,000); Pipelining project (\$300,000); Meter replacement (Year 3 of 7) (\$275,000).	645,000
2020	Design for 2021 pipe replacement project (\$70,000); Pipe replacement project (\$1,000,000); Meter replacement (Year 4 of 7) (\$275,000).	1,345,000
2021	Design for 2022 pipe replacement project (\$70,000); Pipe replacement project (\$1,000,000); Meter replacement (Year 5 of 7) (\$275,000).	1,345,000
2022	Design for 2023 pipe replacement project (\$70,000); Pipe replacement project (\$1,000,000); Meter replacement (Year 6 of 7) (\$275,000).	1,345,000
2023	Design for 2024 pipe replacement project (\$70,000); Pipe replacement project (\$1,000,000); Meter replacement (Year 7 of 7) (\$275,000).	1,345,000
Beyond	FY2024 Design 2025 pipe replacement project (\$70,000); Pipe replacement project (\$1,000,000). FY2025 Design 2026 pipe replacement project (\$70,000); Pipe replacement project (\$1,000,000). Additional design and pipe replacement work (\$4,210,000).	6,350,000
Total		13,050,000

Project Funding Summary

Fiscal Year	Loans	Water & Sewer Revenues	Total
Thru 2016	-	-	-
2017 (Est.)	-	-	-
2018	-	675,000	675,000
2019	-	645,000	645,000
2020	-	1,345,000	1,345,000
2021	1,345,000	-	1,345,000
2022	1,345,000	-	1,345,000
2023	1,345,000	-	1,345,000
Beyond	965,000	5,385,000	6,350,000
Total	5,000,000	8,050,000	13,050,000

Impact on Operating Budget

None.