

Water Meter Replacement and AMI Implementation

Overview

Department Public Works

Project Number UB21

Description

This service area-wide project plans, designs, and constructs water meter replacements within the aging system, including inspection and rehabilitation of vaults, piping, valves, and appurtenances, and the implementation of advanced metering infrastructure (AMI). The city has approximately 12,000 single-family customers, 100 multi-family customers, and 750 non-residential customers in the water system.

Images



Residential water meter



Residential water meter
within meter pit

Details

Guiding Principle: Stewardship of the Environment and Infrastructure

Mandate/Plan: 2019 Water Meter and Backflow Prevention Report

Anticipated Project Outcome: Continuous customer access to meter and usage data; sustainable water metering system with improved leak-detection and cost of service rate data; and increased revenue.

Changes from Previous Year: None.

Project Manager: Yaolin Fennell, Principal Civil Engineer, 240-314-8525.

Notes: This project first appeared in the FY 2020 CIP under the title Commercial Water Meter Replacements. FY 2027 work includes AMI implementation and residential meter installation. Planned OCI includes software subscription funding added over two years starting in FY 2027. Staff are currently evaluating options that would accelerate the implementation timeline for this project.

Capital Cost

FY2027 Budget

\$2.1M

Total Budget (all years)

\$6.2M

Project Total (to date)

\$11.6M

Detailed Breakdown

Category	Historical Budgeted	FY2027 Requested	FY2028 Requested	FY2029 Requested	FY2030 Requested	FY2031 Requested	Future Budgeted	Total
Construction (Water Fund)	\$4,808,500	\$2,100,000	\$2,000,000	\$1,047,500	\$1,047,500	\$0	\$0	\$11,003,500
Design (Water Fund)	\$619,000	\$0	\$0	\$0	\$0	\$0	\$0	\$619,000
Total	\$5,427,500	\$2,100,000	\$2,000,000	\$1,047,500	\$1,047,500	\$0	\$0	\$11,622,500

Funding Sources

FY2027 Budget

\$2.1M

Total Budget (all years)

\$6.2M

Project Total (to date)

\$11.6M

Detailed Breakdown

Category	Historical Budgeted	FY2027 Requested	FY2028 Requested	FY2029 Requested	FY2030 Requested	FY2031 Requested	Future Budgeted	Total
Bond (Water Fund)	\$4,047,500	\$2,100,000	\$2,000,000	\$1,047,500	\$1,047,500	\$0	\$0	\$10,242,500
PayGo (Water Fund)	\$1,380,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,380,000
Total	\$5,427,500	\$2,100,000	\$2,000,000	\$1,047,500	\$1,047,500	\$0	\$0	\$11,622,500

Project Timeline

- **07/1/2020**
Planning and Design Start (FY 2021)
- **07/1/2026**
Construction Start (FY 2027)
- **07/1/2029**
Planning, Design, and Construction Completion (FY 2030)