

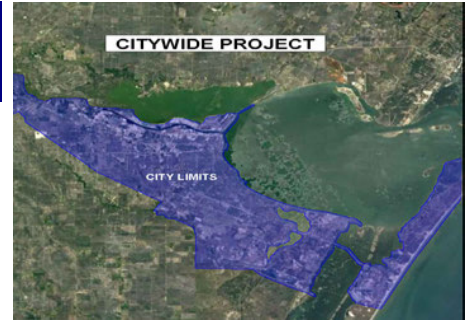
Capital Improvement Plan

City of Corpus Christi, Texas

2025 *thru* 2027

Project # 23064
Project Name City-Wide Large-Size Water Line Cathodic Protection System

Type Rehabilitation
Useful Life 25 years
Category Water Distribution
Department Water
Contact Director of Water Utilities
Priority Priority Level 1
Council District City-Wide
Status Active



Description

A majority of the City's large diameter transmission lines have been in service many years and are made of non-plastic corrosive materials such as Cast Iron Pipe (CIP), Ductile Iron Pipe (DIP), Concrete Steel Cylinder Pressure (CSCP) and steel. In some cases, these lines were installed with cathodic protection systems to help minimize corrosion and in some cases, they were not. This project will ensure reliable delivery of drinking water for years to come by assessing the physical condition, both external and internal, of transmission mains and associated cathodic protection systems and determining the remaining useful life of each asset. In addition, the project will also repair the most critical lines that have significant maintenance/repair history or where failure may be reasonably expected in the near future. This project continues into the long-range plan.

Justification

This project will improve the service life and water quality of City's large water lines.

Expenditures	Prior Years	2025	2026	2027	Total
Construction/Rehab		2,500,000	2,400,000	2,000,000	6,900,000
Design		300,000	100,000	100,000	500,000
Eng, Admin Reimbursements		121,000	121,000	121,000	363,000
Total		2,921,000	2,621,000	2,221,000	7,763,000

Funding Sources	Prior Years	2025	2026	2027	Total
Revenue Bonds		2,921,000	2,621,000	2,221,000	7,763,000
Total		2,921,000	2,621,000	2,221,000	7,763,000

Budget Impact/Other

Implementation of cathodic protection on the city's large diameter water lines will extend the lifespan of the current infrastructure reducing maintenance costs, and will reduce the risk of future emergency repairs.