



City of Boynton Beach Agenda Item Request Form

Meeting Date: 02/20/2024

Presentation of potential methodology for Utility Infrastructure assessment review, risk matrix development and prioritization for repairs and replacement projects.

Requested Action: Presentation by Utilities Department.

Explanation of Request: Utilities has thousands of assets with many hundreds of miles of underground pipe including potable water distribution, sanitary sewer collection and storm water drainage transmission system. The Collection system is comprised of gravity system pipes and force mains that along with pumping stations are needed to pump wastewater to the Regional waste water plant. The Utilities has programs in place for infrastructure maintenance and improvements but would like to take a proactive approach toward a more structured approach for evaluating the current condition of assets, identifying the risks and potential vulnerabilities and develop prioritization for repair and replacement of the infrastructure. Utilities will be engaging consulting firms to analyze existing GIS data, interview staff and review asset information and use risk modeling to evaluate and develop likelihood and consequence of failure and prioritization matrix for future repair and replacement projects.

How will this affect city programs or services? This project will help Utilities assess and identify the potential underground infrastructure assets that have a higher likelihood of failure, and consequence of failure and develop prioritization matrix allowing staff to make data driven decisions for infrastructure repair and replacement projects. This is a prudent and proactive approach for utilizing available staff and budget resources and will also help Capital Improvement Planning (CIP) for the long run. This is a first step in the journey for the Utility to continuously improve assets to serve all Utility customers.

Fiscal Impact: No Fiscal Impact at this time

Attachments:

[Commission Presentation Underground Utilities Risk Assessment 022024.pptx](#)