



MEMORANDUM TO THE BOARD OF COMMISSIONERS

FROM: Clint Mack
DATE: 02/04/2025
SUBJECT: Sewer Capital Improvement
PRESENTER: Clint Mack

REQUEST:

To review and accept the wastewater system asset management plan prepared by Wooten.

BACKGROUND:

This Asset Management Plan (AMP) is provided to present a summary of data on the wastewater (sewer) system that serves the Town of Robbins, NC. The document is structured in compliance with the NCDEQ Division of Water Infrastructure recommended format as follows: Section 1 – System Asset Inventory Section 2 – Condition Assessment Section 3 – Capital Improvements Plan Section 4 – Operation and Maintenance Manual The Town of Robbins sewer system includes approximately 74,200 feet of sewer lines ranging from 6 to 18-inch in diameter, 299 manholes, and 3 sewer pumps stations. The Robbins Sewer System, which currently collects and treats approximately 195,000 gallons per day of raw sewage, was initially built in the late 1930s to serve the growing industry and residents. As with any aging infrastructure, it is imperative that accurate evaluations of the system are performed at regular intervals to assess shortcomings and determine where funds and labor can best be allocated within the system. In an effort to facilitate these evaluations as well as encourage utility owners to increase their system viability and be more proactive in the management and financing of their systems, the Department of Water Infrastructure offers grant funding specifically to perform Asset Inventory and Assessment (AIA) studies. As result of this AIA grant, The Wooten Company was tasked with completing an updated summary and condition assessment of the sewer system for the Town of Robbins and providing recommendations for future capital improvements based on a priority ranking system. The assessment of the sewer system focused primarily on identifying potential sources of infiltration and inflow (I/I) into the collection system through field investigations such as smoke testing, manhole inspections, i-tracker studies and robotic and manual TV line inspections. A general assessment of the Town’s wastewater treatment facilities was also conducted as part of this AIA study. After completion of the field investigations, the findings were combined with available data such as line size, age and material as well as maintenance records in order to prioritize capital improvement projects based on the areas of most concern. The Capital Improvement Plan (CIP) enclosed herein elaborates on the recommended priority of these work areas and the anticipated costs over the next 20 years, with a particular focus on the next 10 years of work. A rate study has also been included as part of this document that ties the CIP into the

Town's utility rate structure so as to promote long-term utility viability. An Operations and Maintenance Manual has also been provided as part of this document in order to assist the Town with maintenance and operational tasks on their sewer infrastructure.

IMPLEMENTATION PLAN:

See Page 21-33 of the Wastewater Management Plan

FINANCIAL IMPACT STATEMENT:

Unknown

RECOMMENDATION SUMMARY:

Approve recommendations from Wootens Asset Wastewater System Asset Management Plan.

SUPPORTING ATTACHMENTS:

Draft of Wastewater System Asset Management Plan