

**TOWN OF LANDIS
SEWER SYSTEM AIA
AIA-W-ARP-0200**

**Preliminary Project Scope and Cost Estimate w/Schedule
May 25, 2023**

REFERENCE: As included in the funding application submitted last Fall (2022), the Authorized Representative and primary contact for the Town of Landis, and this project, is the Town Manager, or current successor. The current Town Manager is Michael Ambrose. He can be reached at (704) 857-2411 ext. 202 or via email at mambrose@townoflandisnc.gov.

NARRATIVE: The Town of Landis intends to conduct a sanitary sewer system asset assessment and evaluation of approximately 60,000+ LF of clay gravity sewer pipes and associated manholes. The inspection/assessment will include internal CCTV inspection of gravity sewers and an aboveground Level II Manhole Inspection. The inspection/assessment will also include smoke testing approximately 60,000+ LF of the clay gravity sewer lines. The asset assessment and evaluation will also include the inspection and evaluation of six (6) of the town's ten sanitary sewer lift stations.

In addition, the proposed work will include updating town's current Wastewater Asset Management Plan and 10-Year Capital Improvements Plan as well as the development and prioritization of critical sanitary sewer system collection rehabilitation projects based on the findings of the collection system asset inspection work and lift station evaluations.

ITEMIZED TASKS: In accordance with the ARPA requirements, we will publish a RFQ to provide the engineering services necessary to complete the project. At this time, the project budget included in the funding application will be the basis for our engineering services agreement once a consultant has been selected.

ESTIMATED PROJECT COSTS:

PROJECT TASKS	ESTIMATED COSTS
Project Management	\$ 15,000
CCTV Sewer Inspection, Level II Manhole inspection, Smoke Testing	300,000
Sewer Lift Station Inspection/Evaluation/Technical Memorandum	30,000
Asset Management Plan Update	20,000
Capital Improvements Project Development/CIP Updates	20,000
Grant Administration	15,000
TOTAL ESTIMATED PROJECT COSTS	\$ 400,000

PROPOSED PROJECT SCHEDULE:

TASK	DURATION (MONTHS)	MILESTONE DATES
Project Management	24	July 2023 through June 2025
CCTV and Condition Assessments	12	Sept 2023 through August 2024
Sewer Lift Station Inspection/Assessments	8	Jan 2024 through August 2024
Asset Management Plan Update	6	August 2024 through Jan 2025
CIP Project Development/10-Yr. CIP Update	5	Jan 2025 through May 2025
Receive Deliverables/Project Closeout	2	May 2025 through June 2025
Grant Administration	24	July 2023 through June 2025

DELIVERABLES: The Deliverables will include: Bound hard copies and digital copies of all gravity sewer CCTV Condition Assessment videos, photos, inspection reports, all Level II manhole inspection photos and reports, and all smoke testing reports, photos and GIS coordinates; an assessment and written evaluation of six (6) sanitary sewer pump stations including photos and recommendations for renewal/rehabilitation; updated Wastewater Asset Management Plan; written capital project development plan including project criticality review, prioritization and timing of projects; an updated 10-year Capital Improvement Plan based on the tasks performed as part of the Wastewater AIA project. It is understood that this work is to be accomplished within 24 months of the funding offer and that funds will not be available beyond December 31, 2026.