



UTILITIES

## OUR SERVICES

- ▶ Existing & Future System Analysis
- ▶ GIS Sewer System Creation
- ▶ Hydraulic Modeling & Analysis
- ▶ Preliminary Engineering Study & Evaluation
- ▶ Regulatory Permitting
- ▶ Trenchless Technology
- ▶ Construction Plans & Specifications
- ▶ Construction Administration & Observation

## REACH OUT

[www.withersravenel.com](http://www.withersravenel.com)

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# SANITARY SEWER

infrastructure

WithersRavenel has extensive and diversified experience in planning, engineering, and implementing sewer system improvement projects, combining traditional field experience with industry-leading technology. Supported by NASSCO certified professionals, we perform hydraulic modeling of system capacity and physical condition assessments and recommend alternatives for rehabilitation or replacement. Alternatives range from conventional to innovative and include methods such as CIPP, sliplining with FRP or HDPE liners, pipe bursting, dig and replace, parallel construction, and realignment.

When growth demands new infrastructure, we perform capacity analysis and future demand forecasting to design line extensions, pump stations, and treatment facilities. By leveraging all of these capabilities, we also develop comprehensive sewer system mapping and inventory databases, enabling our clients to make informed decisions about their current and proposed sewer infrastructure.

