

Town of North Wilkesboro

Hwy 115 South Sewer Improvements

FUNDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE -
RURAL DEVELOPMENT



Presented By:
Municipal Engineering Services Company, PA
August 30, 2016



Project Overview

Sanitary Sewer System Improvements

- ▶ The purpose of the proposed sewer improvements project is to address critical health and sanitation needs along the Highway 115 corridor south of US 421 and within the Lynwood Subdivision.
- ▶ The area currently has no central sewer system. Residents and businesses rely on private on-site systems for treatment and disposal of wastewater.
- ▶ The Lynwood Subdivision has a documented history of serious problems with on-site septic tank systems.
- ▶ As a result, the Town of North Wilkesboro has been contacted numerous times over the years to extend sewer service into this area.

On-Site Septic Tank System Issues

Need for the Project

A 2014 study, performed by Land Resource Management (LRM), evaluated 27 lots in the Lynwood subdivision. Nearly one-half (13) of the properties evaluated had failed or near-failing septic systems. The identified problems fell into four categories:

- ❖ **Shallow depth to weathered bedrock**
- ❖ **Shallow depth to seasonal high water table**
- ❖ **Undersized systems**
- ❖ **Inadequate repair area**

Only four of the 27 lots evaluated would likely meet current requirements for a conventional on-site septic system.

In addition to the residential problems noted, several businesses and churches along Highway 115 South have on-site sewer problems and have also requested an extension of sewer service.

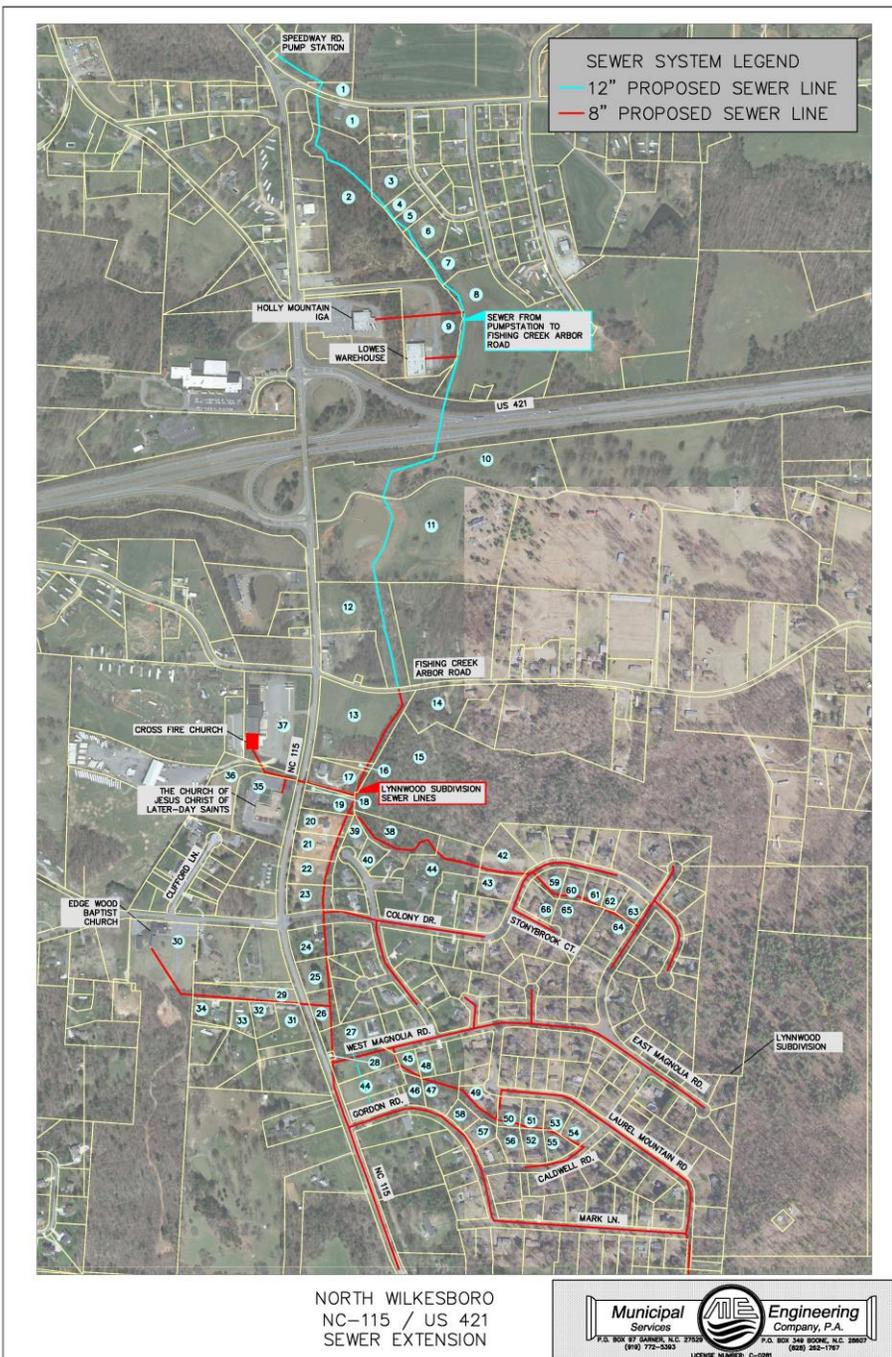
Sewer System Improvements

Proposed Sewer System Improvements

The proposed project will provide opportunities for residents and businesses to receive central sewer service and discontinue use of their on-site septic tank/leach field system. The specific project components are as follows:

- ▶ Approximately 5,800 feet of 12" gravity outfall line
- ▶ Approximately 5,740 feet of 8" gravity outfall line
- ▶ Approximately 15,000 feet of 8" gravity collector lines
- ▶ Approximately 82 sewer manholes
- ▶ Approximately 150 new sewer service connections
- ▶ Miscellaneous materials and appurtenances to install the system

Overall Project Area Map



HWY 115 South Sewer Improvements



Estimated Project Costs

Description	Costs
Sewer System Construction (lines, manholes, services)	\$ 3,260,440
Survey, Engrg. Reports, Design, Permits, Bidding, Construction Admin/Inspection	577,000
Legal, Fiscal, Administrative	60,000
Land and Easements	45,000
Easement Mapping and Survey	85,000
Contingencies	269,560
Interest – Interim Financing	50,000
TOTAL PROJECT COSTS	\$ 4,374,000

Estimated Project Schedule

Activity	Milestone Date
Authorization for Design	September 1, 2016
Plans/Specifications Complete/Submit for Permitting and Approvals	March 1, 2017
Project Bid	June 1, 2017
Construction Start	August 1, 2017
Substantial Completion	July 1, 2018
Final Completion & 100% Operational	August 1, 2018

Project Funding

- ▶ The project will be funded through a loan/grant package from the United States Department of Agriculture – Rural Utilities Service in the amount of \$4,347,000.00 for a term of 40 years.
- ▶ Loan Portion: \$3,783,000.00
- ▶ Grant Portion: \$ 564,000.00



QUESTIONS?

