



Active Capital Project List

Water Resource and Recovery Facility (WRRF) Renovation Project

The improvements proposed as part of the Water Resource Recovery Facility renovation project are part of the City's plan to replace aging equipment and improve unit process operation while ensuring that the proposed upgrades conform with the future desire to increase permitted capacity from 2.5 to 3.0 million gallons per day (MGD). The elements of the renovation project are:

- *Headworks Expansion.* Addition of a single, parallel channel with a capacity of 8 MGD to function as the primary influent channel. The headworks channel will include a mechanical screen and vortex grit removal.
- *Aerobic Stabilization.* The aging mixer/aerators will be replaced with coarse bubble diffused aeration and mixers. Air will be provided by three outdoor blowers.
- *Solids Thickening.* A second, 200 gpm rotary drum thickener will be installed in parallel to the existing unit.
- *Polymer Upgrade.* A second polymer feed system will be installed parallel to the existing unit.
- *Secondary Clarifier Improvements.* To enhance performance of the clarifiers, energy dissipating inlets, flocculating feed-wells and density current baffles will be installed in each secondary clarifier.
- *Electrical Upgrades.* A new electrical building will be included to support the new treatment equipment.

The project is planned to start late fall and be completed spring of 2023

GKN Pump Station Reroute Project

The GKN Pump Station reroute project includes rerouting current wastewater flow of approximately 200,000 gallons per day from Mebane's WRRF (*increasing its capacity*) to the North Carolina Commerce Park sanitary sewer outfall then to the City of Graham WWTP. The project is currently under preliminary design with anticipated final design, easement acquisition, and bidding occurring spring 2022.

Arbor Creek Pump Station Elimination Project

The Arbor Creek Pump Station elimination project includes rerouting current wastewater flow of approximately 75,000 gallons per day from Mebane's WRRF (*increasing its capacity*) to the Cambridge Park Pump Station with the installation of a new sanitary sewer outfall extension from the Cambridge Park development. The downstream Cambridge Park Pump Station currently pumps wastewater flow to the NCCP outfall and then to the City of Graham WWTP. The project is currently under preliminary design.

N. First Street Pocket Park Sidewalk and Crosswalk Project

This sidewalk project provides for connectivity to the park from Stagecoach Road and North First Street. Improvements include the installation of 5' wide concrete sidewalk from the intersection of N. First Street and Stagecoach Road to the recently installed seat wall at the N. First Street Park overlooking the creek. In addition, a new high visibility marked crosswalk will be installed with pedestrian signal heads. The project is planned to start this summer/fall and be completed by spring 2022.