

Occoquan River Crossing, CIP REG-1
Project Summary

Project Description

The Occoquan River Crossing project is a collaboration among various jurisdictions including Fairfax Water, the Prince William County Service Authority (Service Authority) and Virginia American Water. This project consists of the design and construction of two new 42-inch, parallel steel water mains that will cross under the Occoquan River inside a 400-foot long tunnel and connect to existing transmission mains on the Prince William County side of the river. In addition, a new 36-inch ductile iron water main, approximately 2,400 feet long, will be constructed next to an existing 48-inch line that's routed from Fairfax Water's Griffith Water Treatment plant to the Griffith Raw Water Pumping Station (both facilities are located in Fairfax County).

This project also includes the installation of a new drinking water pump at Fairfax Water's Griffith Water Treatment Plant and two interconnections between existing transmission mains in Prince William County: one at Tanyard Hill Road and the other near Horner Road.

The engineering design, design schedule, construction schedule and construction process will be managed by Fairfax Water, with coordination among the three utilities.

Purpose of the Project:

The new 42-inch transmission mains, along with other improvements, will increase drinking water transmission capacity, enhance system reliability and increase system availability to the Service Authority's existing and future customers. The project will also eliminate a single point of failure by constructing two water mains to replace the single supply pipe that currently delivers drinking water from the Griffith Water Treatment Plant to eastern Prince William County.

Scope of Work

All aspects of this work require excavation. Construction consists of the following:

- Installation of approximately 2,400 linear feet of 36-inch diameter water main;
- Installation of an underwater tunnel to carry dual 42-inch transmission mains crossing the Occoquan River;
- Installation of a new drinking water pump at Fairfax Water's Griffith Water Treatment Plant;
- Installation of two 24-inch interconnections at Tanyard Hill Road and Horner Road; and
- Rehabilitation of an existing small segment of 24-inch water main in Tanyard Road

Project Duration

Construction is scheduled to begin in November 2021 and be completed by February 2023.

Project Cost: To be determined once design is completed.

Engineer of Record: HAZEN AND SAWYER

Occoquan River Crossing, CIP REG-1
Project Summary

Service Authority Project Manager: M. Elena Herrera, P.E.
Prince William County Service Authority
703-335-8927

Service Authority Commitments:

- To restore properties affected by Service Authority construction to original or better condition
- To maintain road access at all times
- To maintain emergency services, trash, mail, and other services
- To create and maintain a web page for the Occoquan River Crossing project in order to keep the community informed about the project
- To respond quickly to property owners' and customers' concerns
- To maintain daily clean-up activities (to be performed by Contractor)
- To have Service Authority Inspector and/or Project Representative on site (daily and as necessary)
- To excel in providing safe, reliable water service to our customers and returning clean water to the environment