

A background image showing a close-up of a white water tap pouring water into a clear glass. The water is captured mid-pour, creating a dynamic splash. The image is overlaid with a large, semi-transparent teal chevron shape pointing to the left.

Route 1 Water Main Project

Woodbridge District Town Hall

October 12, 2022



ABOUT THE SERVICE AUTHORITY

ABOUT US

The Service Authority is an independent public body responsible for providing essential water and wastewater services to about 380,000 people in Prince William County, the second largest county in Virginia and one of the most diverse communities in the nation.

MISSION STATEMENT

Prince William County Service Authority protects public health and the environment by reliably providing clean, safe and dependable water and wastewater reclamation services to our community.





OUR INFRASTRUCTURE

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1.6 Billion Dollars in Assets

10.5 Billion Gallons of Water Distributed per Year

65 Wastewater Pump Stations

15 WATER BOOSTER STATIONS

9.8 Billion Gallons of Wastewater Treated per Year

42,600 VALVES

1,100 Sewer 1,300 Water

2,400 MILES OF PIPELINE



22

WATER STORAGE TANKS

337
EMPLOYEES

Water Capacity
67.8
Million Gallons/Day

Wastewater Treatment Capacity
43.8
Million Gallons/Day

12,200
FIRE HYDRANTS



ROUTE 1 WATER MAIN REPLACEMENT

💧 Project Purpose

- \$27 million project to maintain quality of service along the Route 1 corridor, from Neabsco Road to Fuller Heights Road
- Replace aged concrete and cast-iron pipes and smaller transmission mains along Route 1
- Increase transmission capacity, improve system reliability and meet customer demand

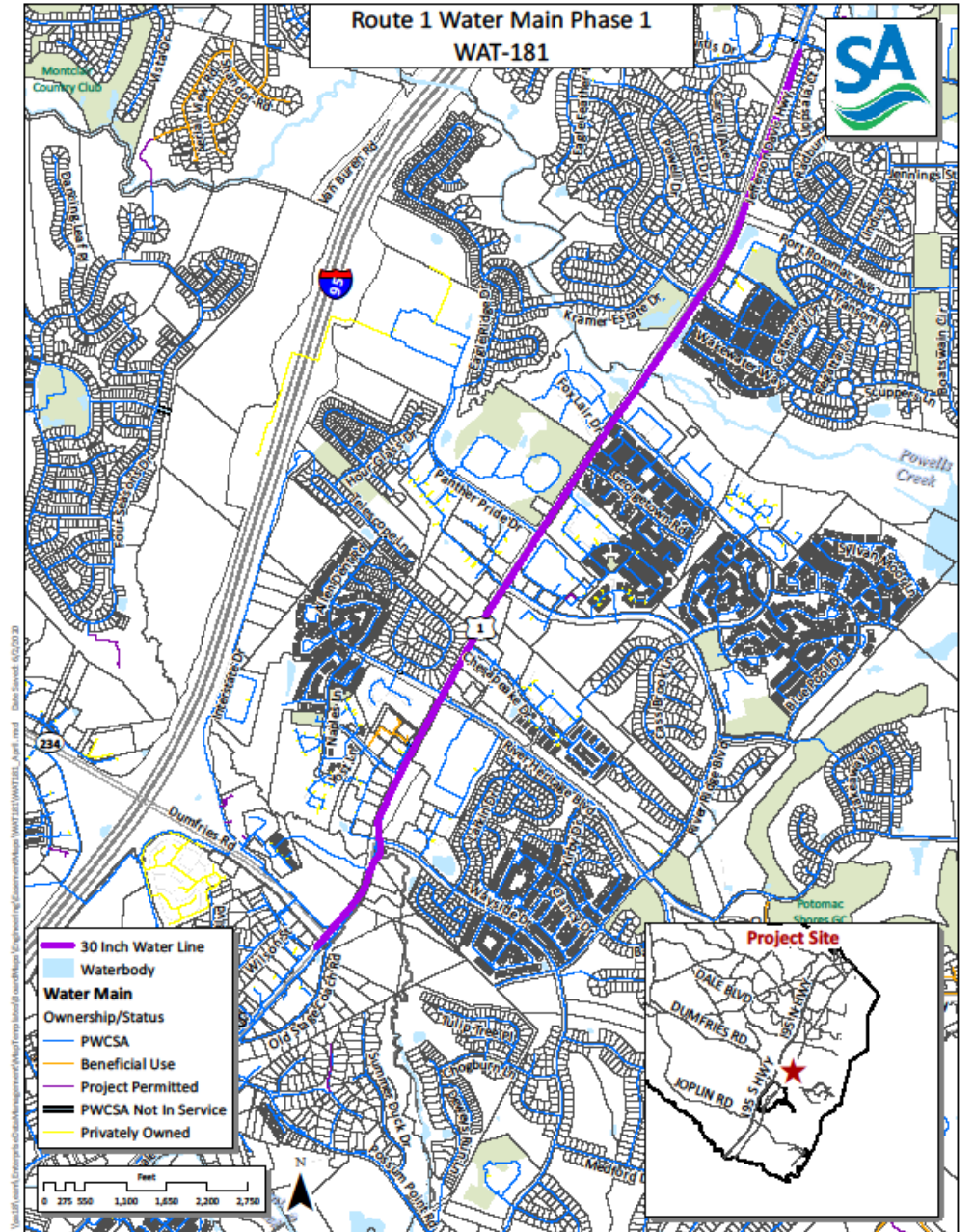
💧 Timeline

- Started: Spring 2021
- Estimated Completion: Spring 2023 (Based on current schedule)

💧 **Web Page:** <https://www.pwcsa.org/rt1-water-main>

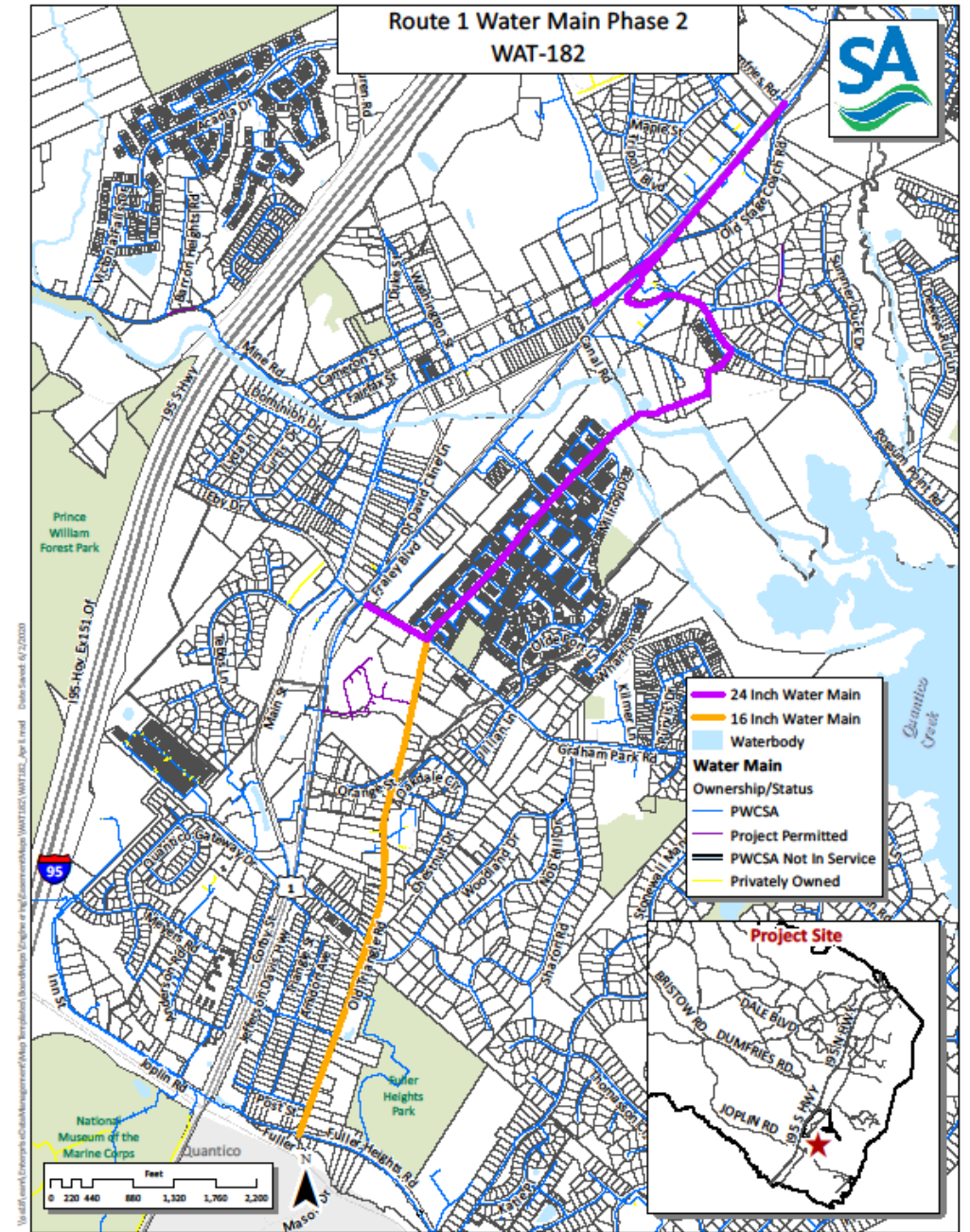
ROUTE 1 – Phase 1

- Install of appx. 13,500 feet of 30-inch and 1,920 feet of 6-inch ductile iron water main
- The new mains will increase water transmission from the Garfield Booster Station to southern portions of the Dumfries area to improve system reliability and meet customer water demand



ROUTE 1 – Phase 2

- Install 8,750 feet of 24-inch, 5,500 feet of 16-inch and 3,350 feet of 6-inch ductile iron water main
- The new mains will increase water transmission from the Garfield Booster Station to southern portions of the Dumfries area to improve system reliability and meet customer water demand; and replace aging distribution system in the Old Triangle Area





SERVICE AUTHORITY COMMITMENTS

- Restore property affected by SA construction to original or better condition
- Maintain access for emergency services, trash, mail
- Minimize service interruptions and provide advance notice of anticipated interruptions
- Respond quickly to property owners' concerns
- Ensure daily clean-up by Contractor
- Hire on-site Construction Manager



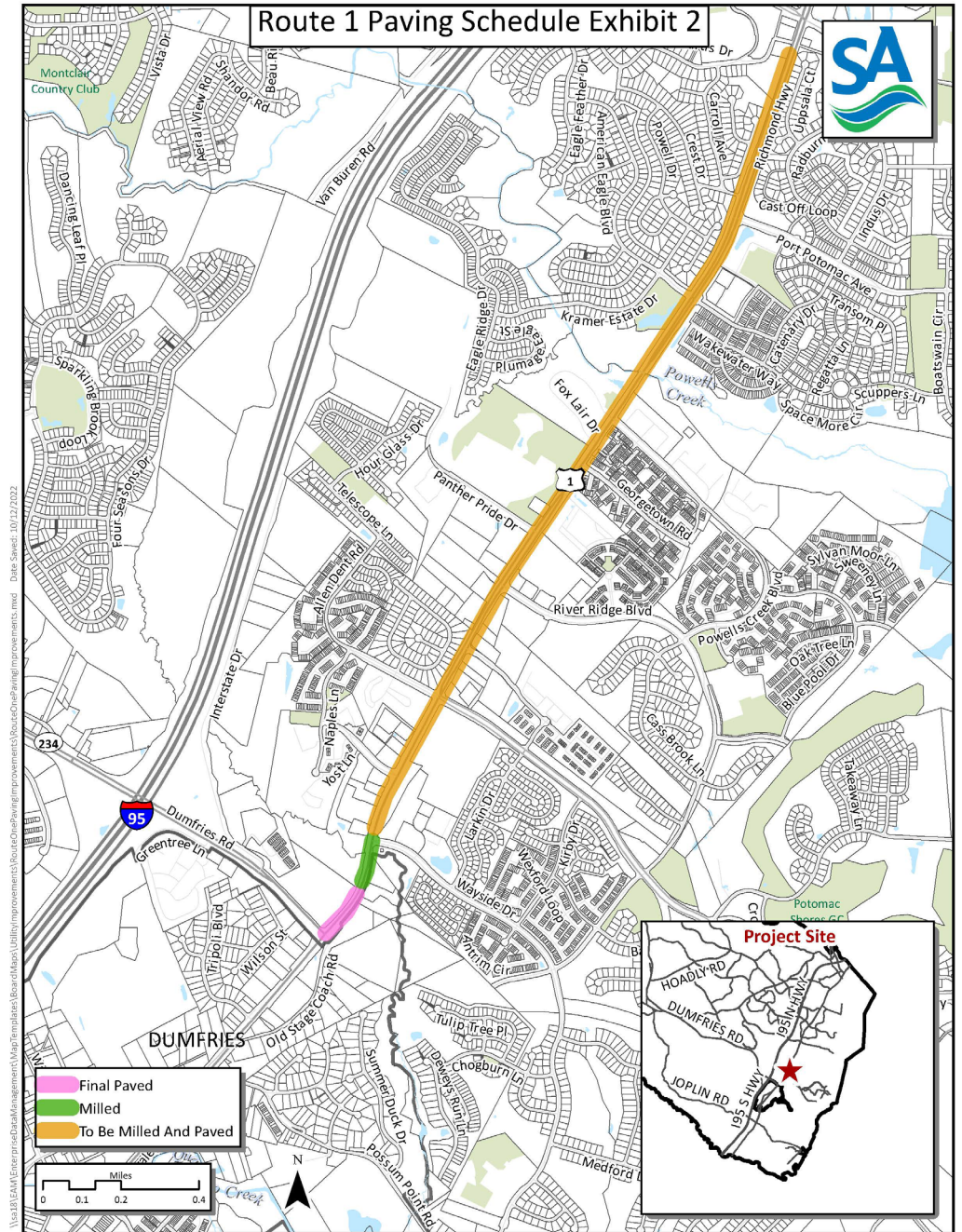
SEQUENCE OF ROAD CONSTRUCTION

- Excavate road
- Install new pipe
- Backfill pipe trench with stone
- Install 2 inches of temporary asphalt to road grade (1)
- Excavate trench to required depth and install base asphalt to road grade (2)
- Mill base asphalt and install final surface pavement(3)

ROUTE 1 – PAVING TIMELINE

- Current paving is in varying stages (temporary, base, final).
- Final paving will occur in phases:
 - **Next 10 Days** - Route 234 and Panther Pride Drive. This excludes the River Ridge and River Heritage intersections, which require additional water main to be installed.
 - **Begins November 1** - Route 1 northbound from Powells Creek Bridge to Port Potomac Avenue.
 - **Mid to Late November** - Old Triangle Road and Graham Park Road.
 - **Late November to Early December** - Port Potomac North to Neabsco Road, following the installation of water main at SA pump station.
 - **December** - Panther Pride Drive to Powells Creek bridge.
 - **Early 2023** - Route 1/Old Triangle/Old Stagecoach/Possum Point. Specific timing depends on weather conditions.

PAVING TIMELINE



PROJECT CONTACTS

Project Web Page: <https://www.pwcsa.org/rt1-water-main>

Email: Rt1WaterMain@pwcsa.org

Project Manager: Alex Silver



OTHER INFRASTRUCTURE IN WOODBRIDGE DISTRICT

Mooney Facility-Wide Improvements

- ◆ Up to \$200 million reinvestment in water reclamation facility
- ◆ Multi-year infrastructure project
- ◆ Cost of doing business to maintain quality service
- ◆ Replacing infrastructure at end of useful life
- ◆ Improve odor control
- ◆ Improve operational resilience





QUESTIONS?