

Service Authority Capital Projects

Potomac District Town Hall
Supervisor Andrea Bailey
April 22, 2021

SA Team:

Kathy Bentz,
Communications Division Deputy Director

Elena Herrera, P.E.
Project Manager

David R. Scott, PhD, PMP
Project Manager

Alex Silver,
Project Manager

Debbie Maxwell, P.E., CCM
Capital Projects Manager



Service Authority
Exceptional Water Service

Agenda

- ◆ Introductions
- ◆ Project Overviews
- ◆ Dumfries Force Main
- ◆ Route 1 Water Main
- ◆ Montclair/Four Seasons
- ◆ Montclair Pressure Zone
- ◆ Service Authority Commitments
- ◆ Q&A

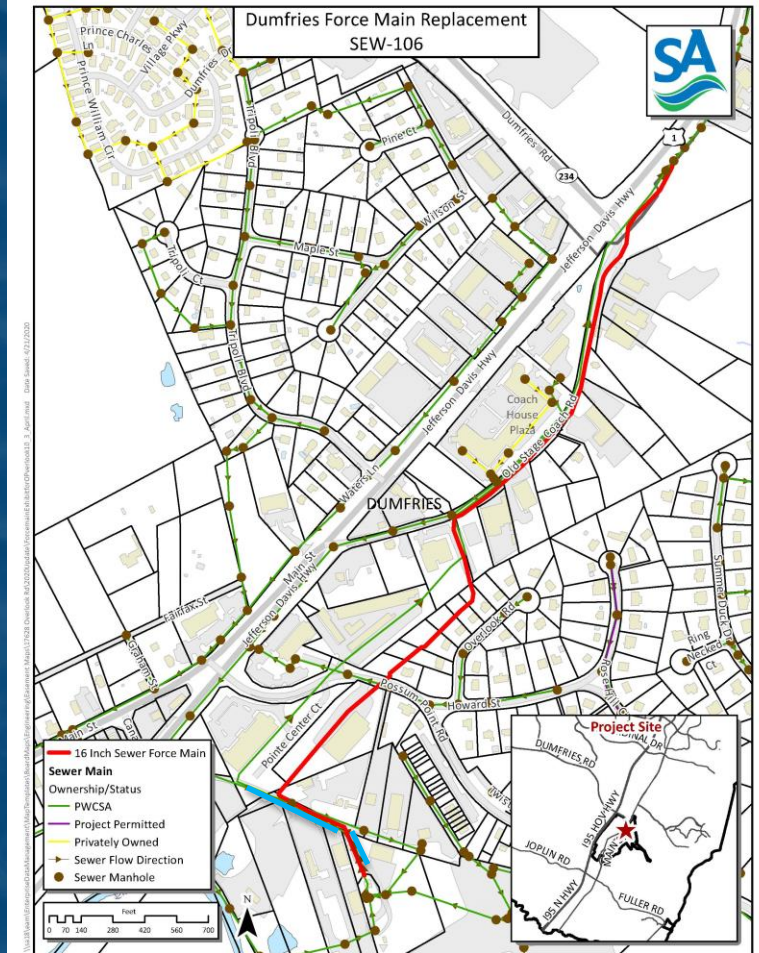


Dumfries Force Main & Route 1 Water Main Team

- Service Authority Project Manager
 - M. Elena Herrera, P.E.
- Engineer of Record
 - Pasquale Arcese, P.E. – Michael Baker International, Inc.
- Construction Administration Services
 - Tim DiLiscia, CCM – RK&K, LLC
 - Kathy Marshal, P.E., CCM – RK&K, LLC
- Contractor
 - Mark Oetjen – Project Manager for Utilities Unlimited, LLC
 - Jenna Burum – Public Liaison for Utilities Unlimited, LLC

Dumfries Force Main Replacement

- Install 4,200 feet of 16-inch PVC pressurized sewer main (force main)
- Install 600 feet of 6-inch water main
- Construction between Dumfries Sewage Pumping Station and Route 234
- The new force main will improve system reliability and reduce maintenance and repair costs
- Construction Schedule:
 - February 2022 - February 2023



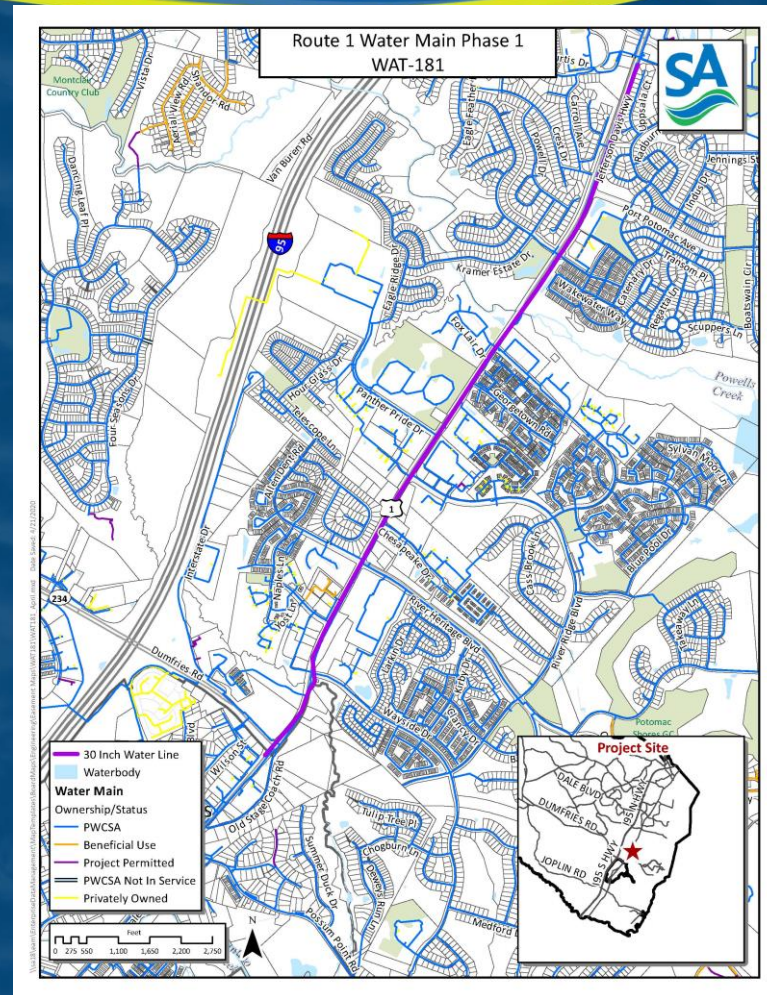
Dumfries Force Main Customer Impacts

- ◆ Property Rights Agreements achieved with commercial and residential property owners along the project corridor
- ◆ Agreement completed between Dominion Energy Virginia and Service Authority for the alignment
- ◆ Primarily day-time construction with exception of two commercial parcels



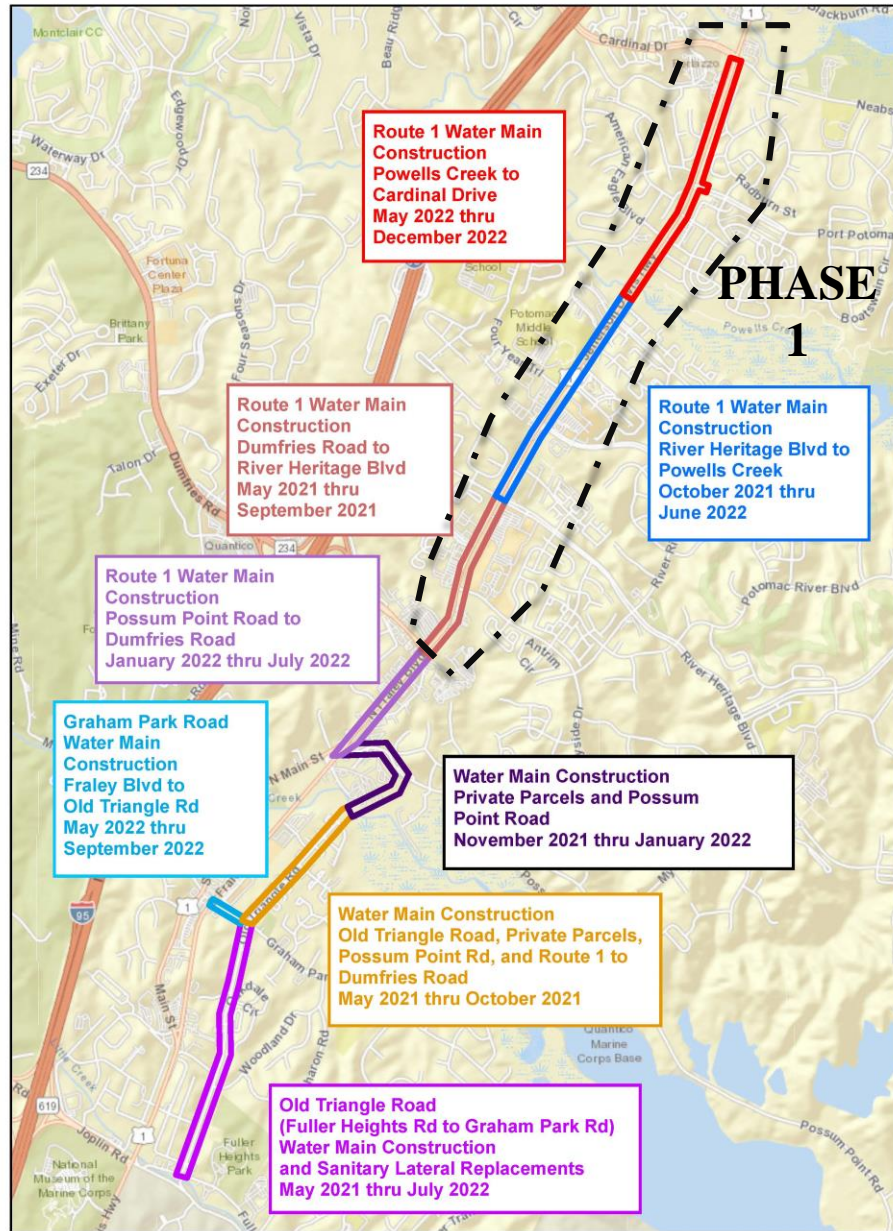
Route 1 Water Main, Phase 1

- Install 13,500 feet of 30-inch and 1,920 feet of 6-inch ductile iron pipe water mains
- Construction between Route 1 at Neabsco Road and Route 1 at Route 234
- Increase transmission along the project corridor
- Improve system reliability and meet customer water demand
- Construction Schedule:
 - May 2021 - December 2022



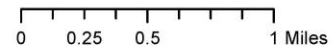
Route 1, Phase 1 Customer Impacts

- ◆ Property Rights Agreements (easements) with affected commercial properties
- ◆ No direct impact to residential customers,
- ◆ Construction primarily along Route 1 corridor in VDOT Right-of-Way:
 - ◆ Lane closures involved
 - ◆ Limit impacts through traffic control and night work
 - ◆ Signage boards & notifications
- ◆ Notification before any service interruptions



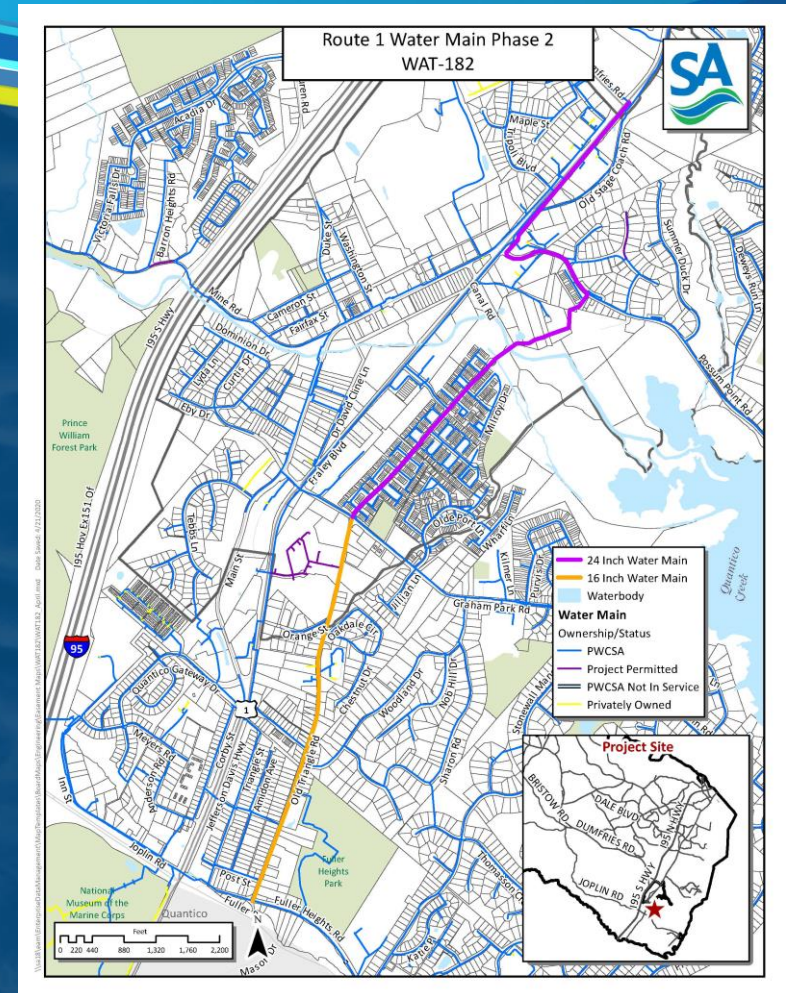
**SA-2022 -
SCHEDULE SEGMENTS -
Route 1 Water Main**

Per Contractor's Preliminary Schedule



Route 1 Water Main, Phase 2

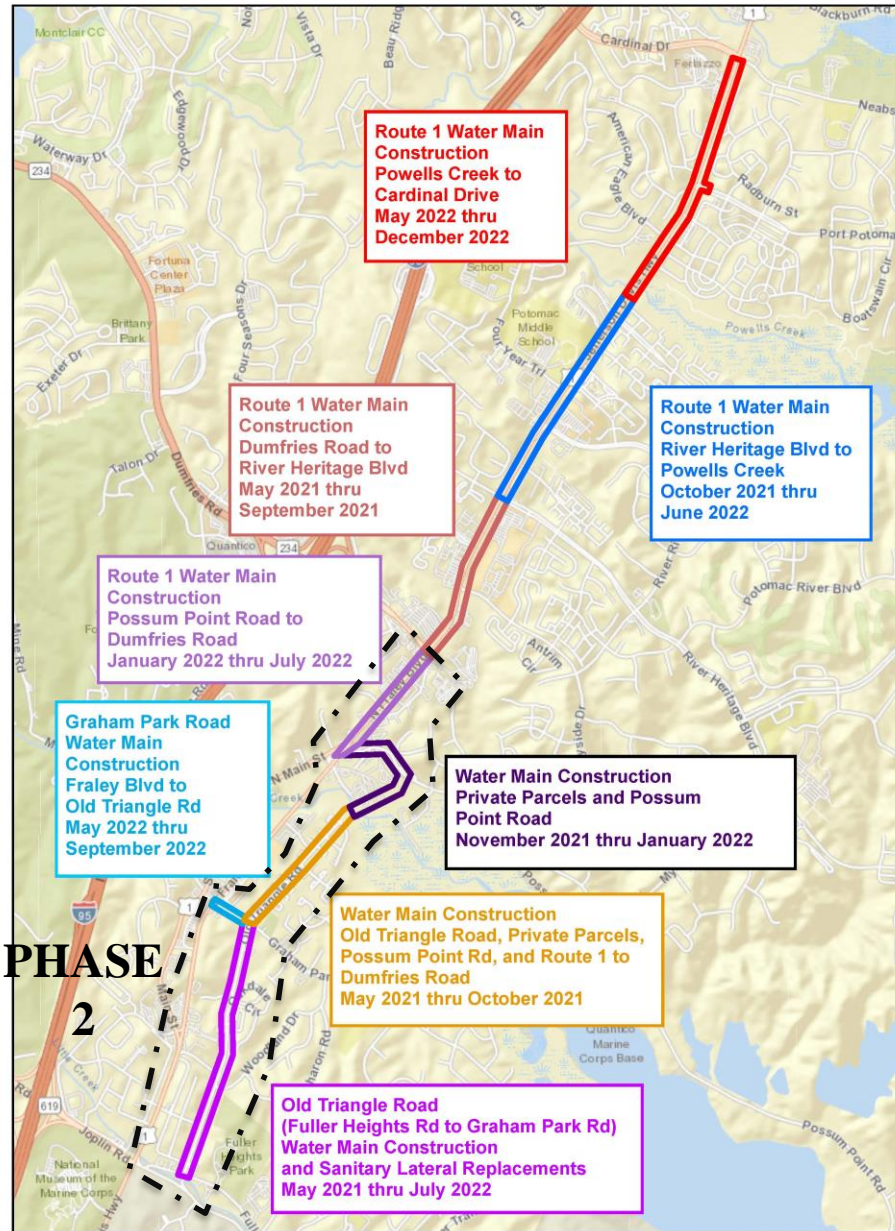
- Install 8,750 feet of 24-inch, 5,500 feet of 16-inch and 3,350 feet of 6-inch ductile iron pipe water mains
- The new water mains will:
 - Increase water transmission from Route 234 to Fuller Heights Road
 - Improve system reliability
 - Meet customer water demand
 - Replace aging distribution system in the Dumfries / Triangle Area
- Construction Schedule:
 - May 2021 - July 2022



Route 1, Phase 2 Customer Impacts

- ◆ Direct impact to residential customers along Old Triangle Road (yellow box)
- ◆ Property Rights Agreements (easements) with affected commercial properties and HOAs
- ◆ Work primarily within VDOT Right-of-Way and Town of Dumfries Right-of-Way
 - ◆ Traffic impact, lane closures, night work
- ◆ Mostly daytime work
- ◆ Nighttime work per agreement with some commercial properties and on Route 1

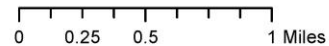




**PHASE
2**

**SA-2022 -
SCHEDULE SEGMENTS -
Route 1 Water Main**

Per Contractor's Preliminary Schedule



Information Resources

Route 1 Water Main

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

Email: Rt1WaterMain@pwcsa.org

Dumfries Force Main

Web Page: <https://www.pwcsa.org/dumfries-force-main>

Email: DumfriesForceMain@pwcsa.org

Montclair/Four Seasons Water System Improvements

- ◆ Service Authority Project Manager
 - ◆ David R. Scott, PhD, PMP
- ◆ Program Management Consultant
 - ◆ Chris Remme – Arcadis
- ◆ Design-Builder
 - ◆ ACE/KCI

Montclair/Four Seasons Site Layout



Booster Pumping Station

Temporary Access Road

Supply Main

Discharge Main

Old Stage Rd

95

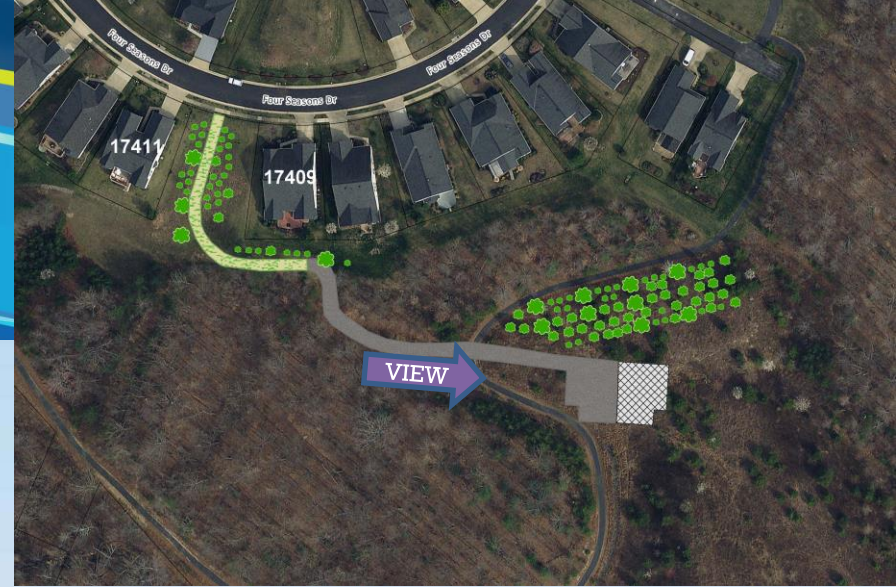
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Montclair/Four Seasons Site Layout



Architectural Rendering



Montclair/Four Seasons Booster Pumping Station

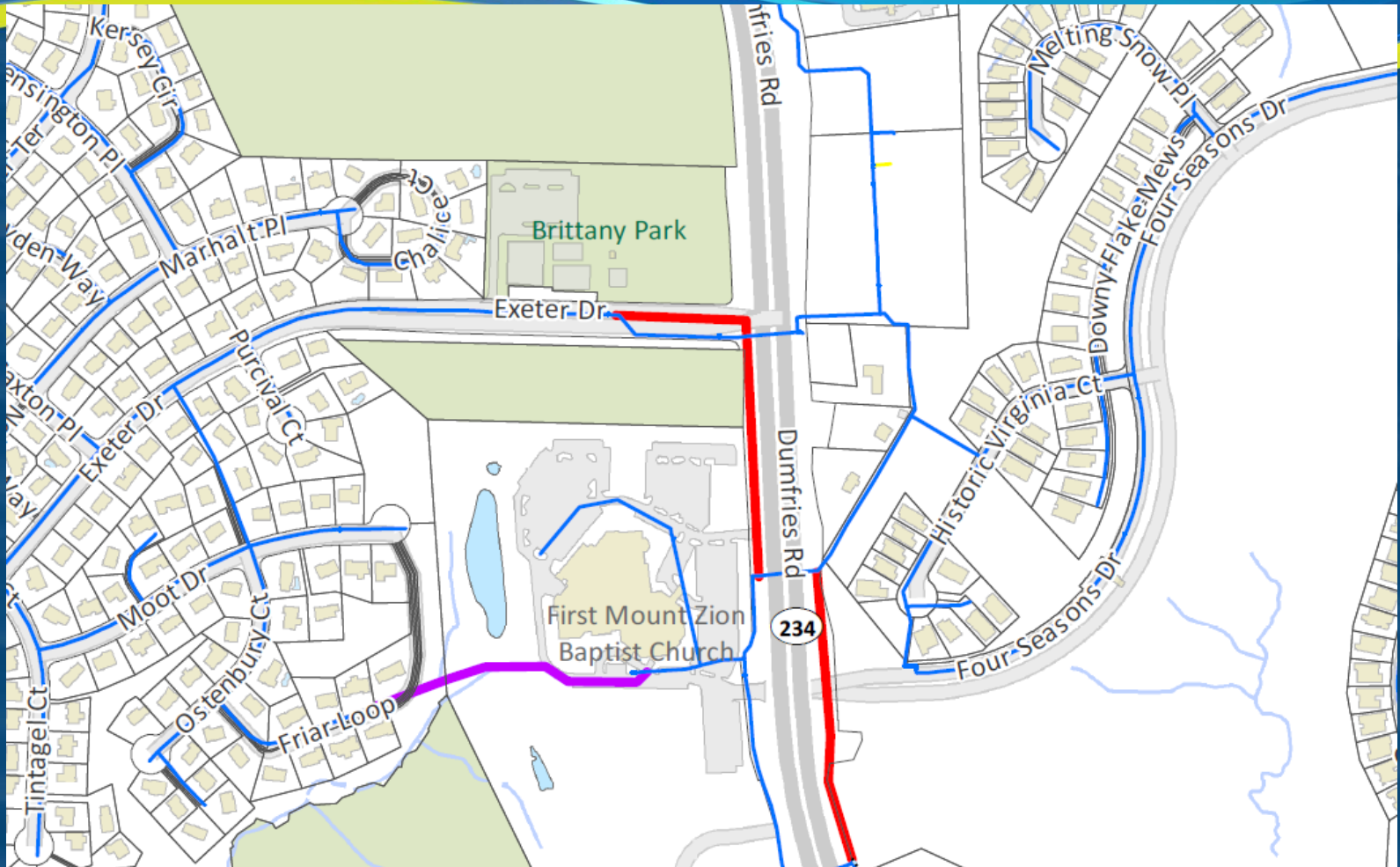
Montclair/Four Seasons Water System Improvements

- Preliminary Stage Design
 - Summer 2020 - Spring 2021
- Final Design and Construction
 - Fall 2021 - Spring 2023
- Project email:
 - Montclair_DB@pwcsa.org
- Project web page:
 - www.pwcsa.org/montclair-db-project

Montclair Pressure Zone Project

- ◆ Service Authority Project Manager
 - ◆ Alex Silver
- ◆ Designer
 - ◆ The Engineering Groupe, Inc.
- ◆ Contractor
 - ◆ A&M Concrete Corporation

Montclair Pressure Zone Overview



Service Authority Commitments

- ◆ Restore property affected by SA construction to original or better condition
- ◆ Maintain road access at all times
- ◆ Maintain access to emergency services, trash, mail, etc.
- ◆ Continuously communicate and work with the community concerning project status
- ◆ Respond quickly to residents' concerns
- ◆ Work with the community to define parking and access constraints
- ◆ Require daily clean-up by the Contractor
- ◆ Service Authority Inspector on site daily and as necessary

Project Information Resources

Route 1 Water Main

- Web Page: <https://www.pwcsa.org/rt1-water-main>
- Email: Rt1WaterMain@pwcsa.org

Dumfries Force Main

- Web Page: <https://www.pwcsa.org/dumfries-force-main>
- Email: DumfriesForceMain@pwcsa.org

Montclair/Four Seasons Project

- Web page: www.pwcsa.org/montclair-db-project
- Email: Montclair_DB@pwcsa.org

Questions



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