



# Clopper Road Water Main Replacement Project

Project No: BT7561A23 (Ph. 1A), BT7569A23 (Ph. 1B), BT7570A23 (Ph. 2)

February 15 & 16, 2023, 6:30PM

# Agenda

- Introduction to project team
- Overview and challenges
- Ongoing & planned mitigation efforts
- Water main replacement design
- Water main replacement construction
- Summary
- Question & Answer

# Project Team

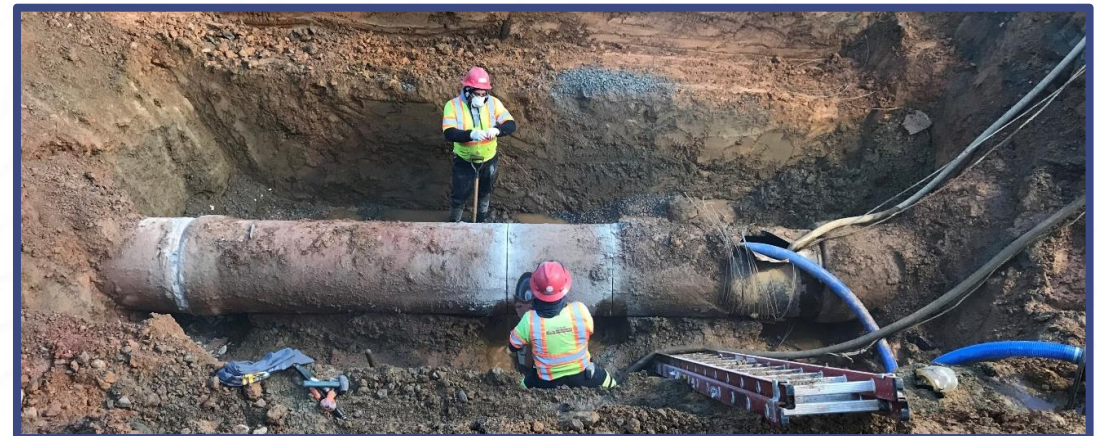


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- AB Consultants, Engineering Design Consultant



# Overview and Challenges

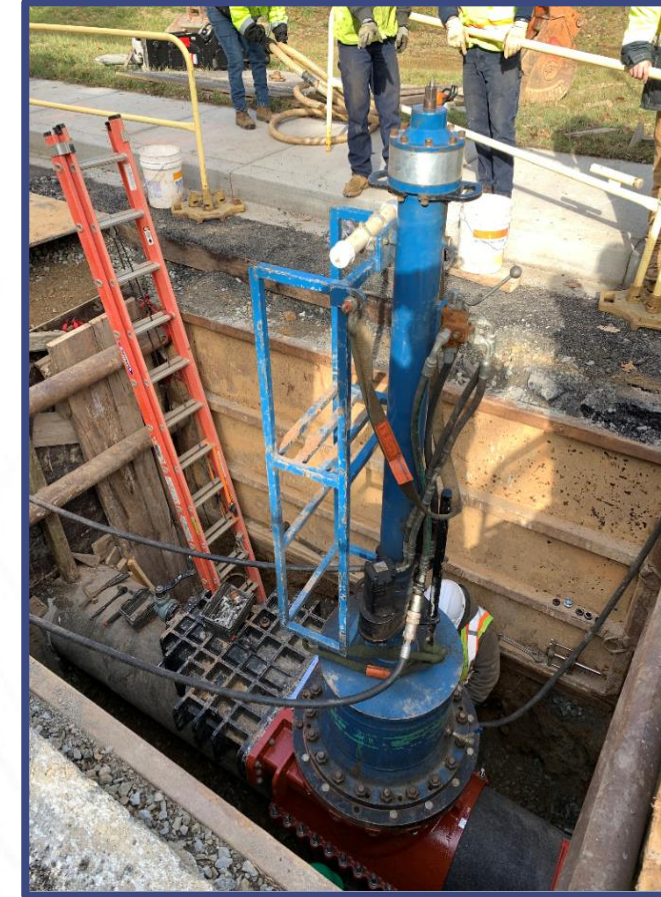
- Existing 24-inch Prestressed Concrete Cylinder Pipe (PCCP) water main originally installed in the 1970s
- Breaks and service disruptions
  - 5 breaks between Dec 2020 and Aug 2022
  - Disruptions to over 4,000 customers and several critical facilities
- Challenges
  - Lack of redundancies/loops in the area
  - Deteriorating valves and aging water mains
  - Water mains nearing end of their life cycle





# Ongoing & Planned Mitigation Efforts

- Adding redundancies in the system
  - Adding Pressure Reducing Valve near intersection of Great Seneca Highway and Climbing Ivy Road
  - Anticipated design completion: spring 2023
  - Limits service disruptions during breaks and repairs, creates a systematic loop
- Insertion of new valves in the system
  - Minimizes customer impact
  - Reduces service impact when new mains are installed and tied in
  - Recently added at Metz Road/Clopper Road
  - Planned at each side of Allspice Drive



# Water Main Replacement Design

- Design Phases
  - Phase 1A (0.7-mile): design completion anticipated summer 2023
  - Phase 1B (1.1 miles): design completion anticipated fall 2023
  - Phase 2 (2 miles): design completion anticipated summer 2024
- Schedules may be impacted based on permitting from State Highway Administration, Maryland Department of Environment, Montgomery County
- Design Approach
  - Fast-track schedule
  - Phase-based approach to address most critical area first
  - Selection of materials with longer life expectancy
  - Exploring trenchless options to reduce potential traffic impacts

# Water Main Replacement Project Map

- Directly Impacted Streets

- Phase 1A: Clopper Road

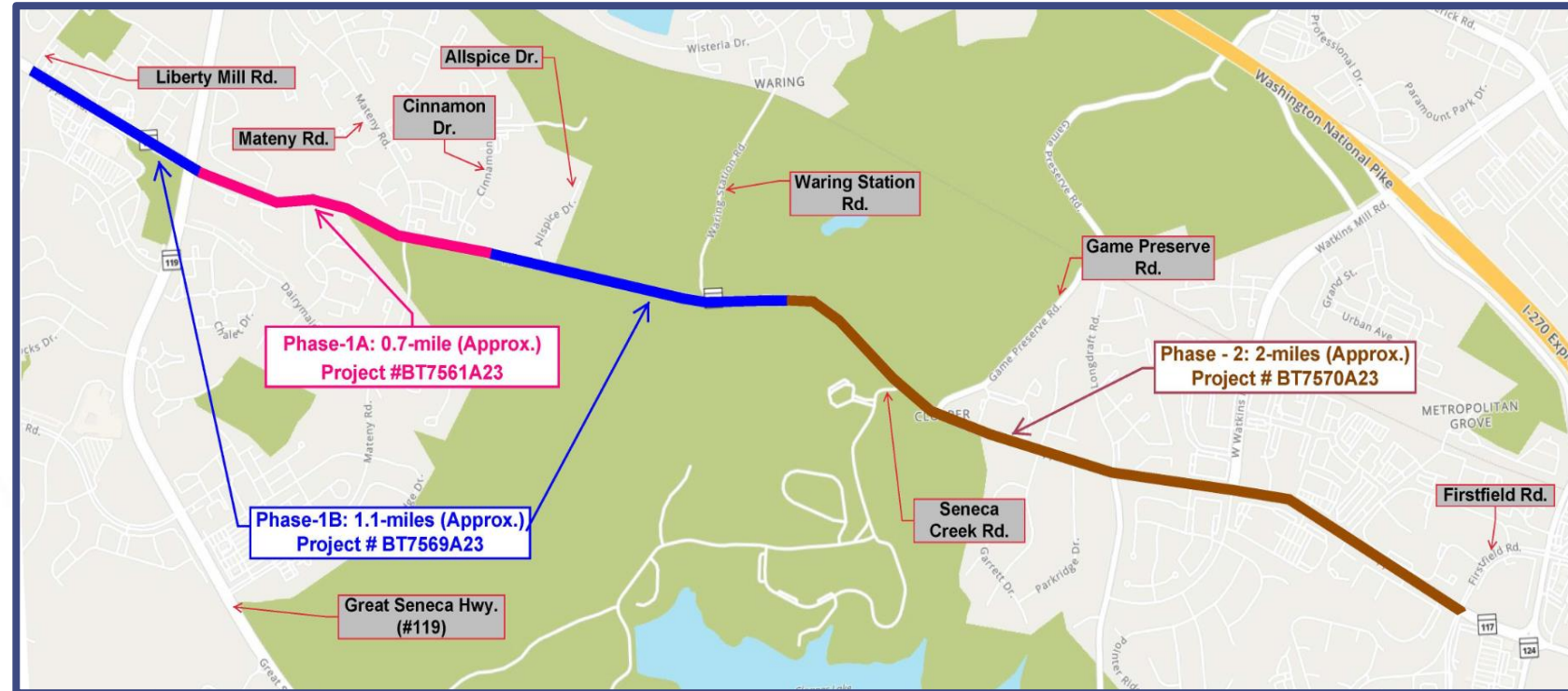
- Near Great Seneca Highway to near Allspice Drive

- Phase 1B: Clopper Road

- Near Allspice Drive to near Waring Station Road
    - Near Great Seneca Highway to Liberty Mill Road

- Phase 2: Clopper Road

- Near Waring Station Road to Firstfield Road





# Water Main Replacement Construction

- Expedited construction approach (multiple crews)
  - Phase 1A: Start – fall 2023, complete – summer 2024
  - Phase 1B: Start – winter 2023, complete – fall 2024
  - Phase 2: Start – summer 2024, complete – summer 2026
- Permitting, limited work-hour requirements, supply chain issues (material availability), weather conditions and other unforeseen circumstances may impact the construction schedule
- Advance notifications to customer
  - Online updates at <https://www.wsscwater.com/what-we-do/major-projects>
  - Progress letters
  - Door hangers
  - In Your Neighborhood at <https://gis.wsscwater.com/iyn/>



# Water Main Replacement Construction

- Anticipated Work Hours
  - Monday – Friday: 9am to 3pm
    - Work may occasionally extend beyond these hours to complete specific tasks
- Possible night work, advanced notification
- Reliable water and sewer service maintained during construction
  - Temporary bypass required in some areas
  - Short water shutdowns of up to 8 hours may be required
  - Advanced notification (48-72 hours)
- Certain construction activities may require temporary changes to traffic patterns
  - Traffic managed to minimize community disruptions



# Water Main Replacement Construction

- Access maintained to homes during construction
  - Access into homes NOT required
  - Access onto private property generally NOT required
- Parking Restrictions
  - WSSC Water will provide 48-hour advance notice (denoted by No Parking signs) prior to any parking restrictions
  - Any vehicles not removed from designated area will be towed to a nearby street at no cost to the owner
- Construction signs with contact information placed throughout the project area
- Final restoration
  - Takes place within 90 days of construction completion, weather permitting



# Summary

- There were several service disruptions due to breaks and leaks in the area
- The existing 24” water mains nearing end of their life cycle
- WSSC Water plans on replacing the existing 24” water mains in an expedited manner
- WSSC Water adding new valves and redundancies in the system
- WSSC Water serving advance notifications to customers at each phase
- WSSC Water’s goal is to provide a safe and reliable water system to customers





**Questions?**

