



Clinton Zone 42"/36"/30" Water Transmission Main –Phase 4

Project No. BL5273F I I

March 30th, Thursday, 2023

Agenda

- Introduction to Project Team
- WSSC Water Overview
- Project Background & Purpose
- Project Map & Scope
- Project Details
- Estimated Construction Schedule
- What to Expect During Construction
- Questions & Answers

Project Team

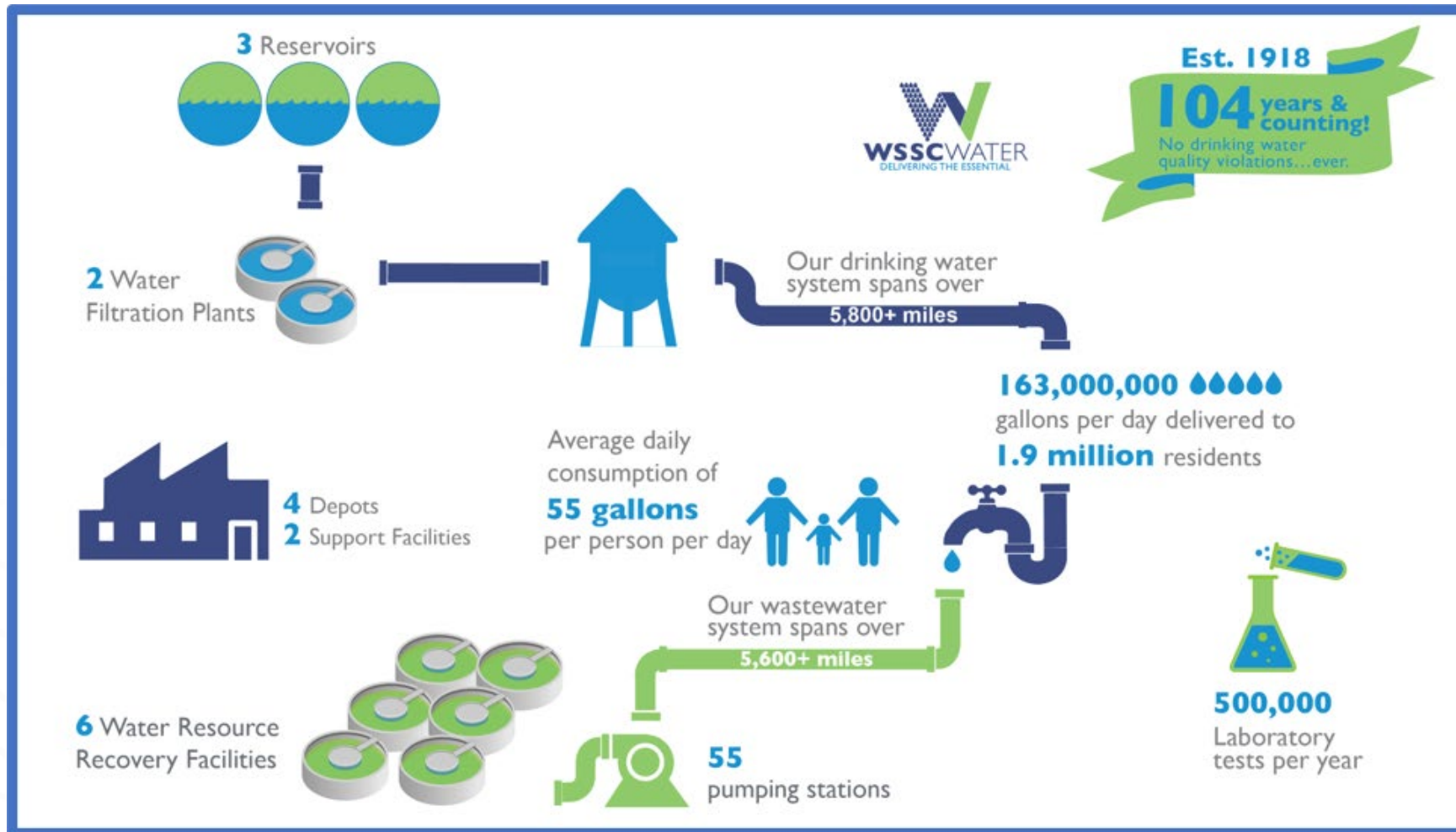


- Ling Li, Design Project Manager
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- Daniel Hamilton, Construction Manager
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- Michael Dobbs, Technical Contracts Supervisor (Construction)
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- Thomas Johnson, Project Outreach Manager
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- Stephen Billingsley, Customer Advocate
240-444-5803, Stephen.Billingsley@wsscwater.com
- Gannett Fleming, Inc., Engineering Design Consultants
- Construction Contractor TBD

Today's Presenters

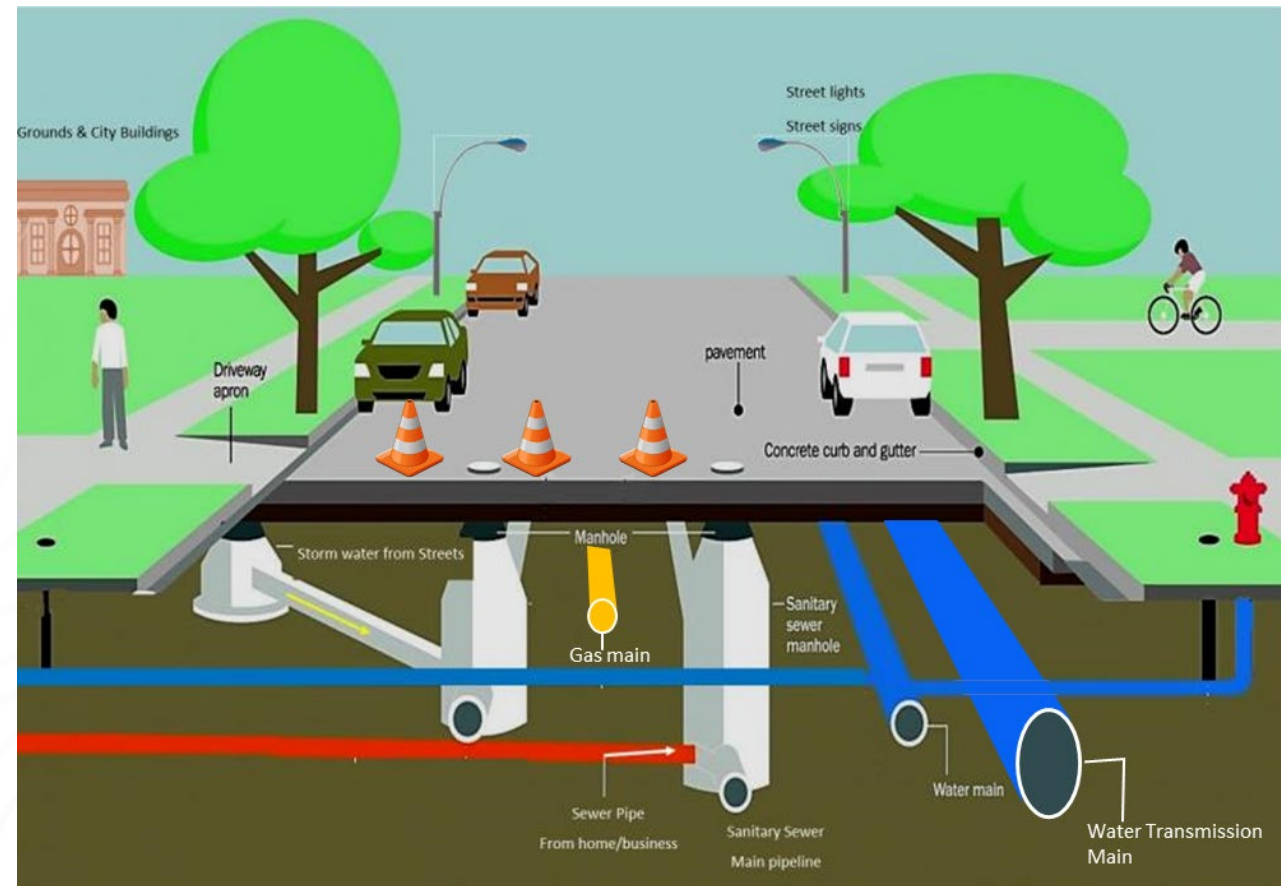
- Ms. Ling Li, PE – WSSC Water Project Manager
- Mr. Daniel Hamilton, PE – WSSC Water Construction Manager
- Mr. Dennis Funk, PE – Project Manager, Gannett Fleming
- Mr. Scott Holcomb, PE/PTOE – Traffic Engineer, Gannett Fleming
- Mr. Nick Lewis, PE – Project Engineer, Gannett Fleming
- Ms. Jess Weron, PE – Project Designer, Gannett Fleming

WSSC Water Overview



Project Overview

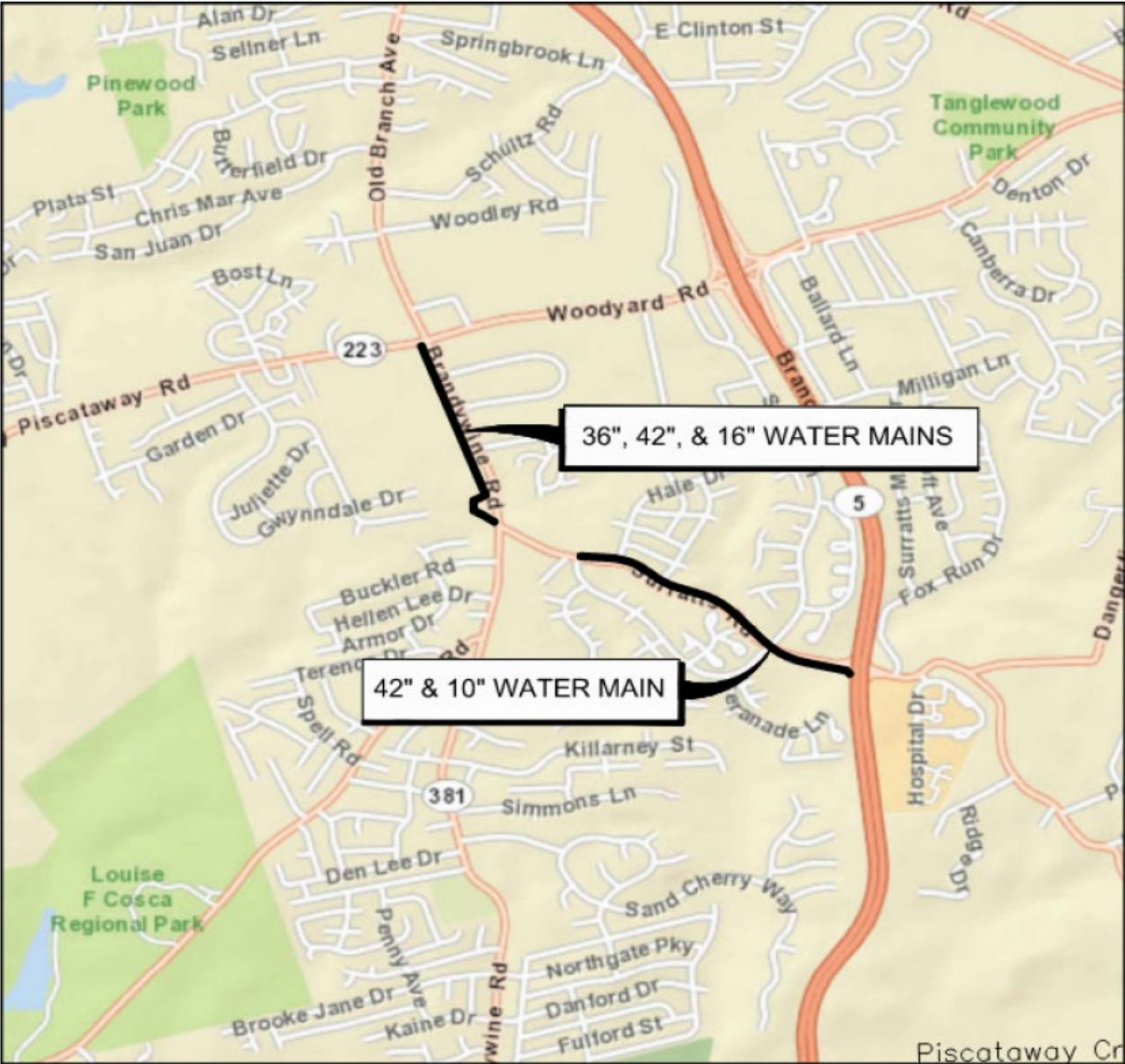
- Construction of a new 42/36 inch transmission water main on Brandywine Road and Surratts Road in Clinton Zone
- Replace the existing 16 inch water main (Prestressed Concrete Cylinder Pipe - PCCP) on Brandywine Road and water house connections; Replacing existing pipes helps reduce disruptions to community, environment and emergency services due to water main breaks
- WSSC Water coordinates with local and state agencies, adjacent development and other adjacent utility owners for all planned work to avoid potential conflict and minimize disturbances to the neighborhood
- Project Goal: Provide redundancy and reliable water supply to the Southern Region of Prince George's County



Project Map

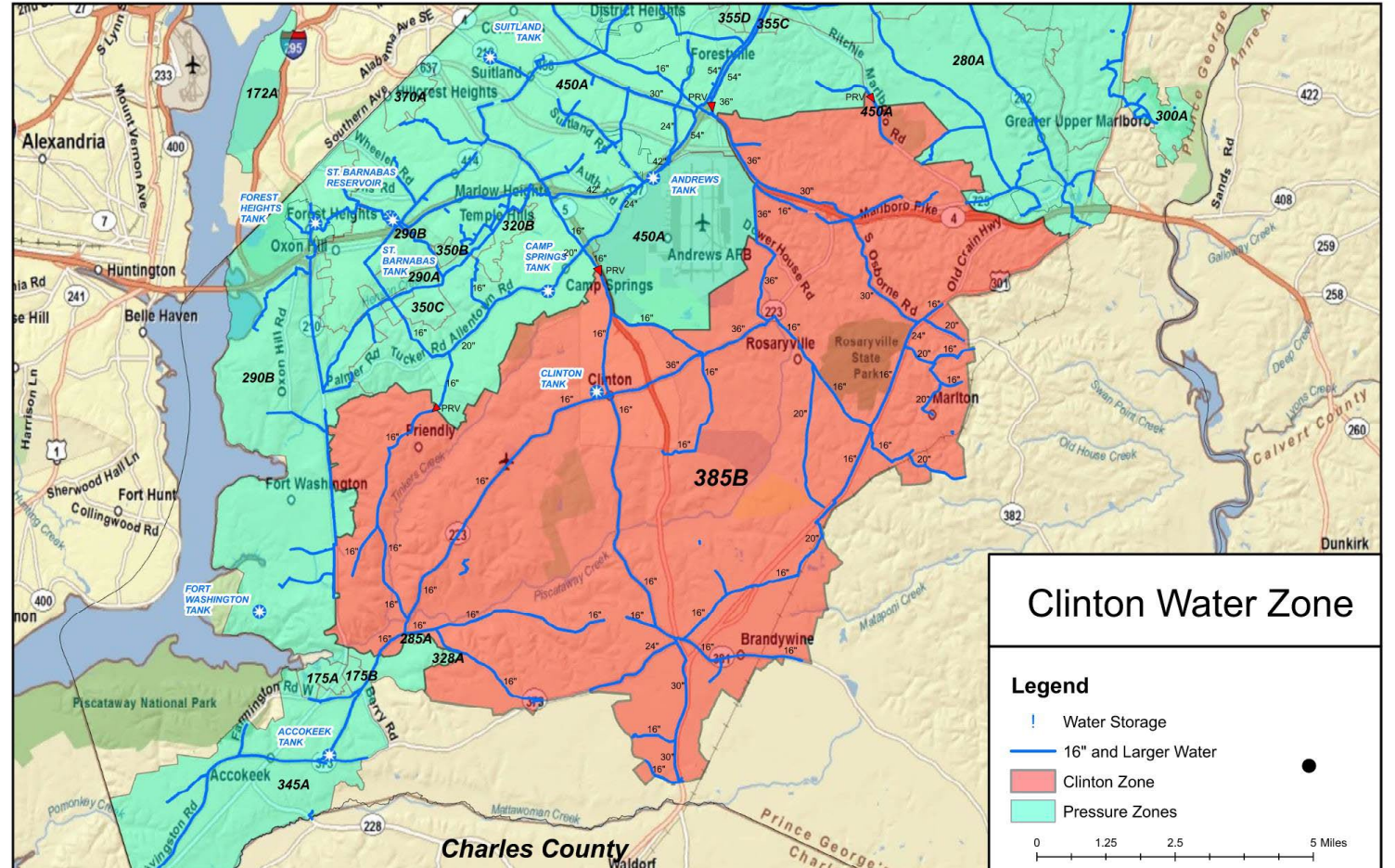
Directly Impacted Streets

Brandywine Road
Surratts Road



Planning – Clinton Water Zone Study

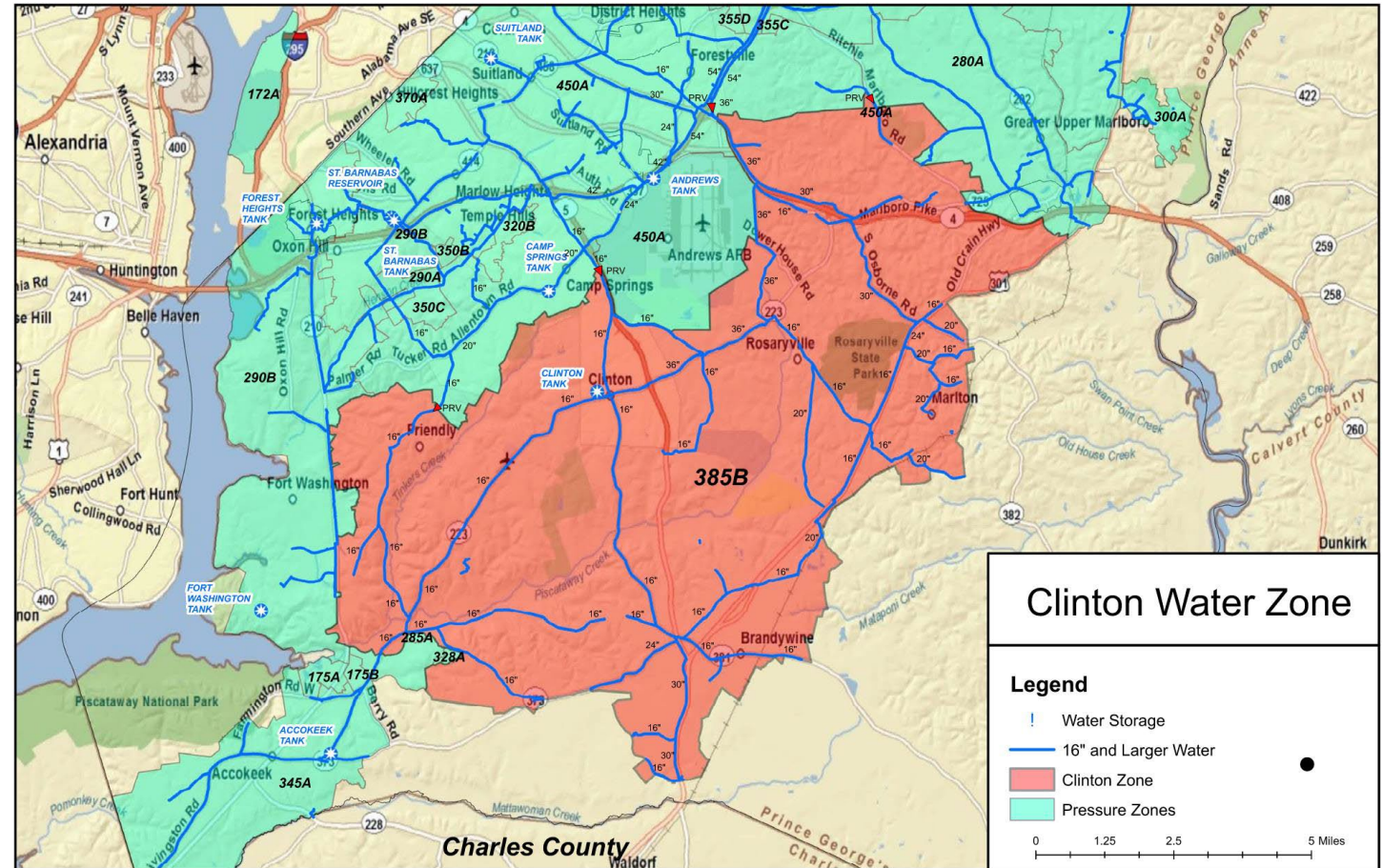
- Recommendations
 - New Water Storage Tank
 - Brandywine Elevated Tank
 - New Transmission Mains
 - Accokeek Supply Main
 - Clinton Transmission Main
 - 16-inch Marlboro Main



Planning – Clinton Water Zone Study

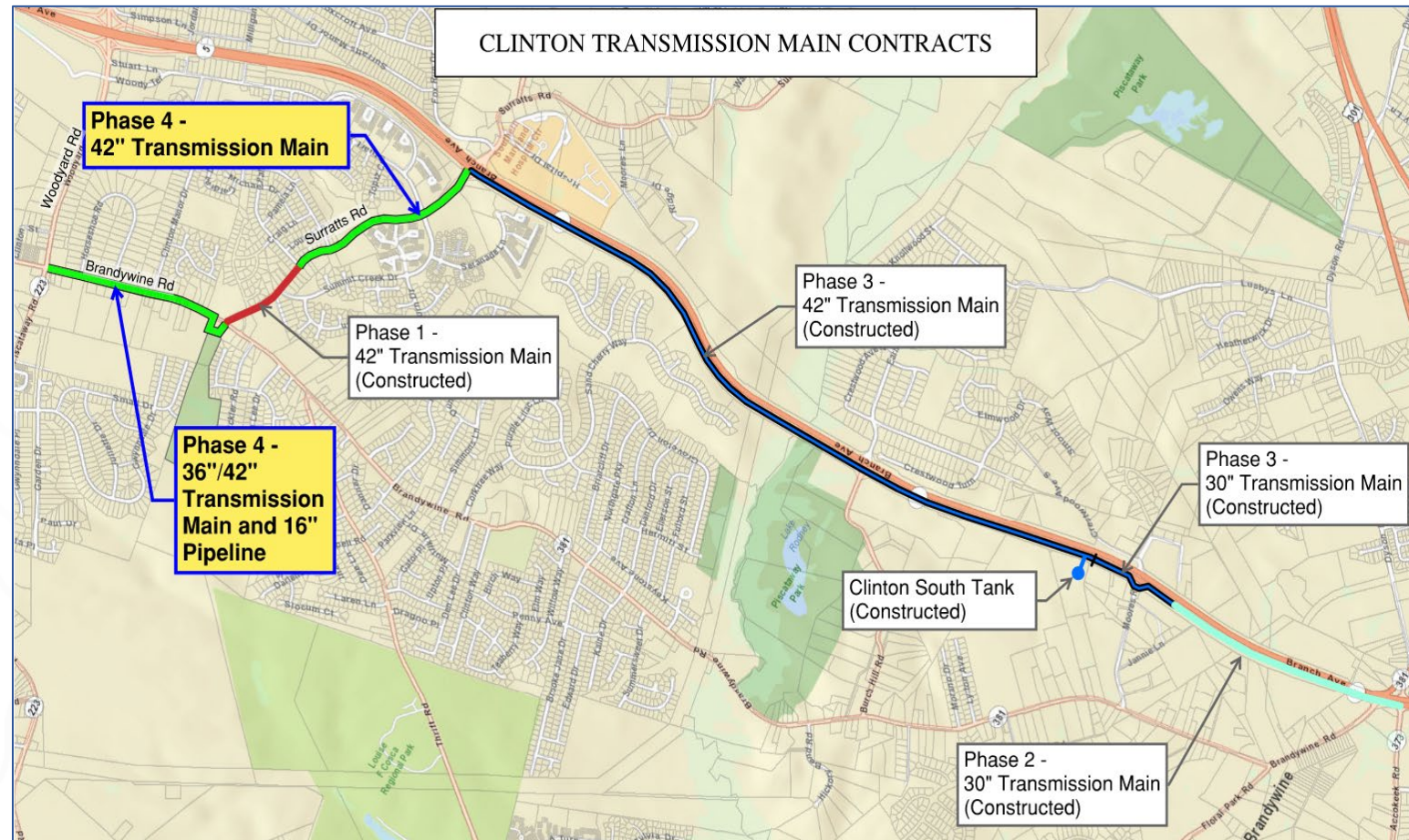
- Project Benefits

- Water Supply Capacity
- Emergency Operations
- Adequacy to meet growing demands
- New Transmission Main
 - Reliability and Capacity for southern demand/growth areas
 - Supply for new South Tank



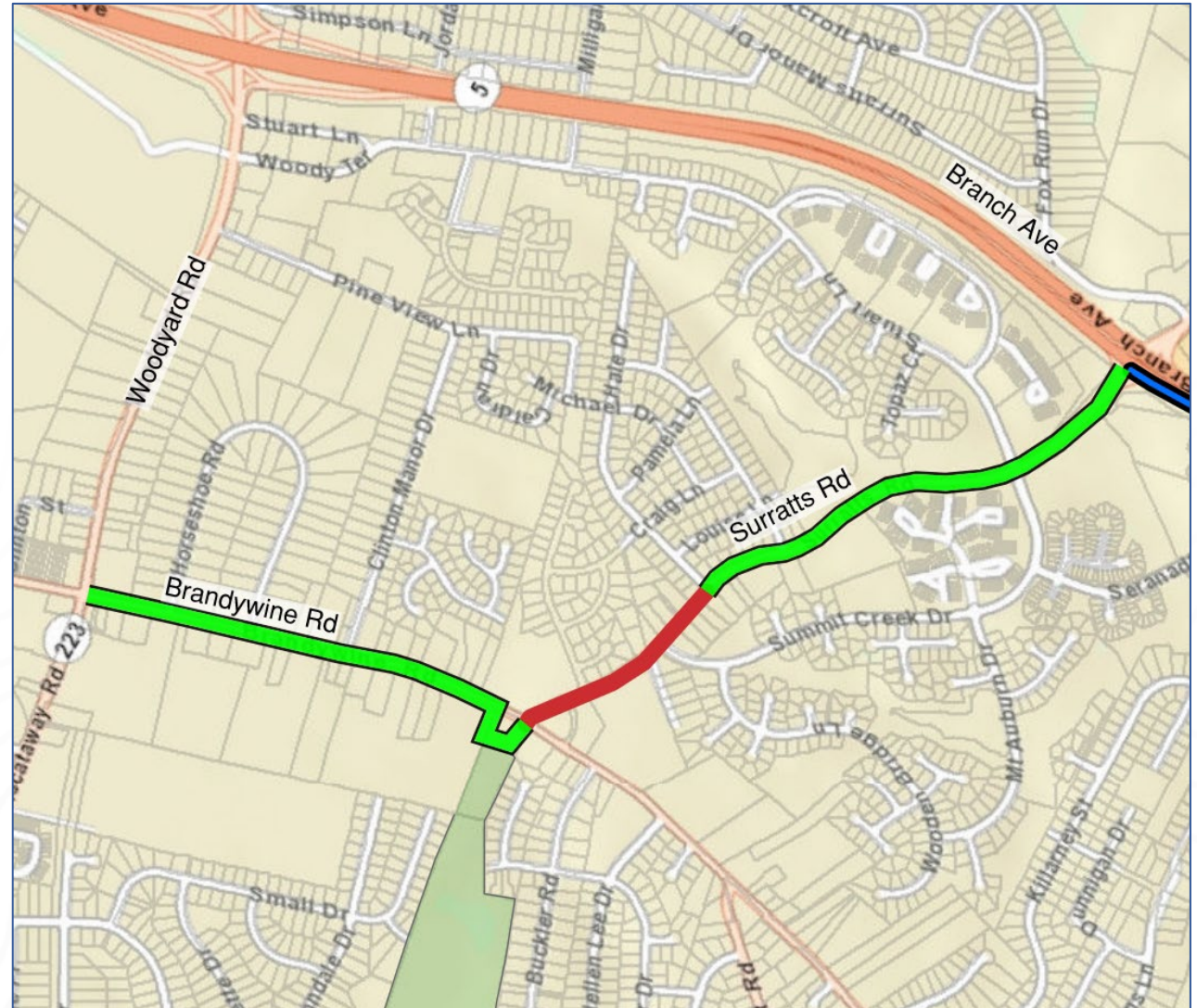
Clinton Transmission Main – Construction Contracts

- Phase 1 (BL5273D I I Surratts Road)
 - Completed 2015
- Phase 2 (BL5273E I I)
 - Completed 2019
- Phase 3 Pipeline and Tank
 - Completed 2019
- Phase 4 Construction
 - Spring 2024 – Spring 2026
 (Phase 4 pipeline required for full function of the new tank)



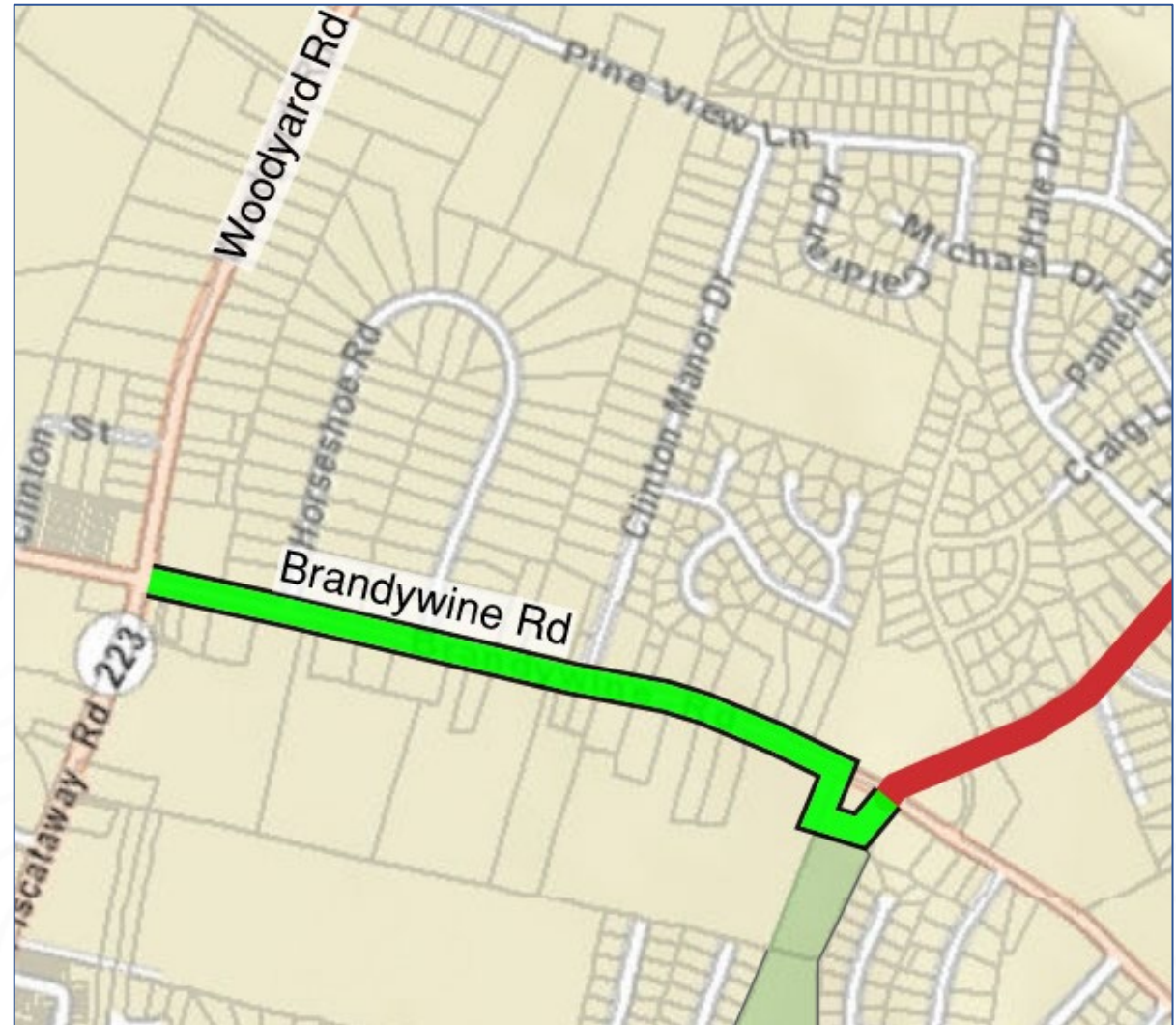
Clinton Phase 4 – Two Construction Areas

- Brandywine Road
 - MD 223 (Woodyard Rd) To Surratts Road
 - New 36" and 42" Water Main
 - Replace 16" Water Main
- Surratts Road
 - Hale Drive to MD 5 (Branch Ave)
 - New 42" Water Main
 - Replace 10" Water Main



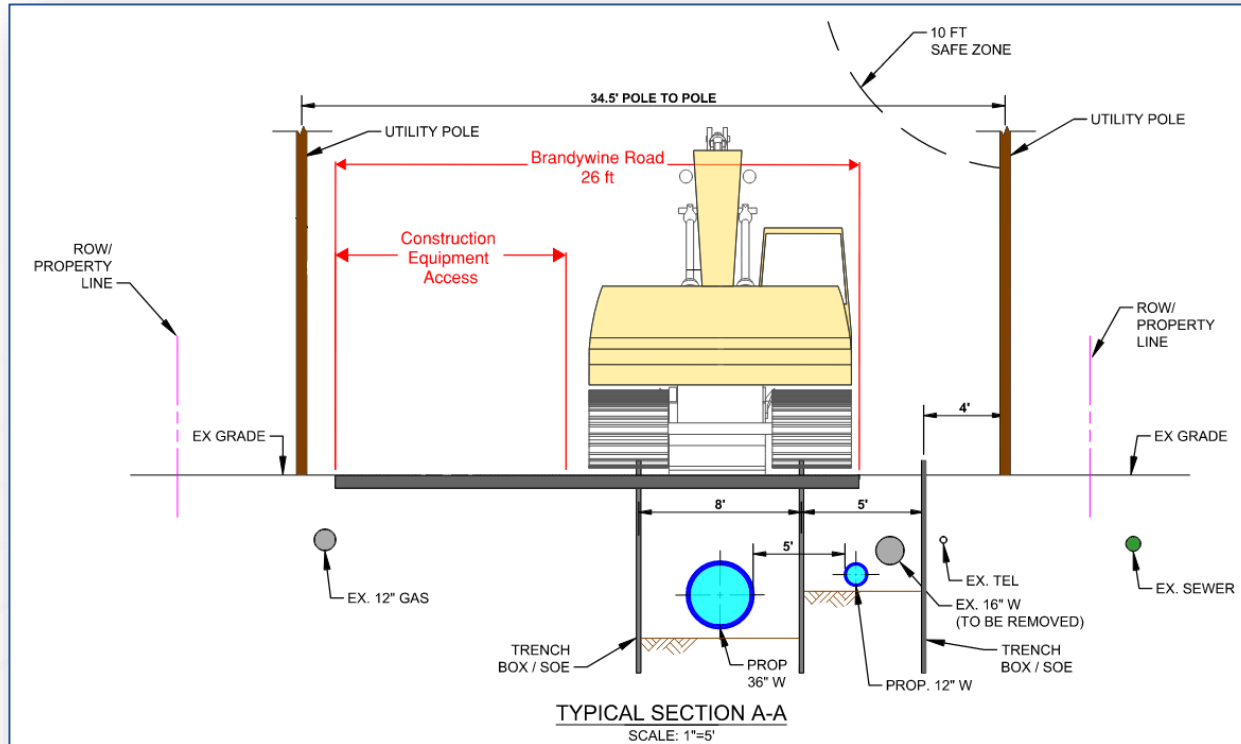
Clinton Phase 4 – Brandywine Road

- 3,300 feet of 36” and 42” pipe
 - From MD 223 to Cosca Park Entrance
- 2,600 feet of 16” pipe
 - Replacing 1958 pipeline
 - Water service replacements (main to meter)
- Open-cut (trench) installation
- Brandywine Road Closure
 - Required for large pipe construction



Brandywine Road – Pipeline Construction

- Cannot maintain safe travel lane during active construction

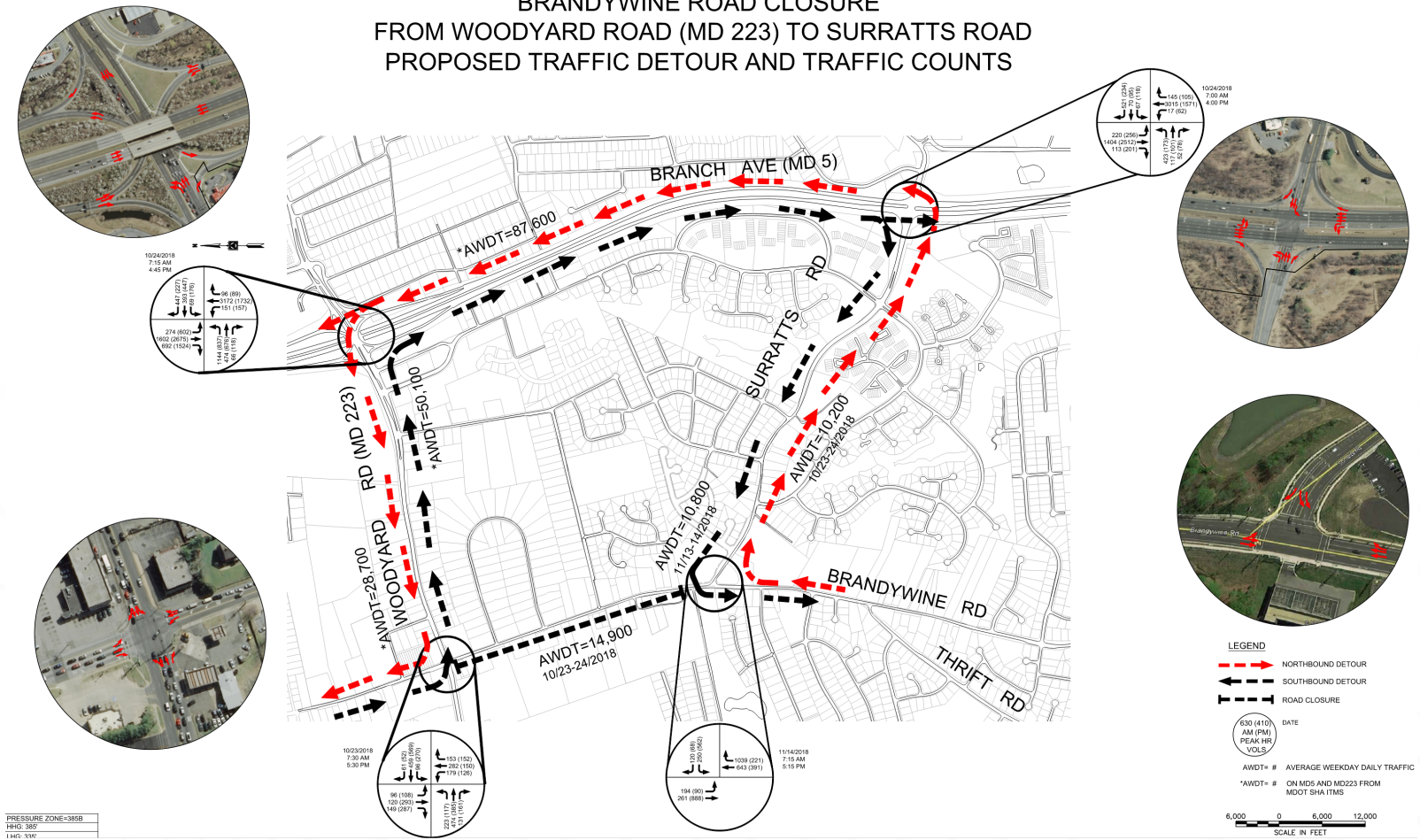


Brandywine Road – Detour Plan

Brandywine Road Closure

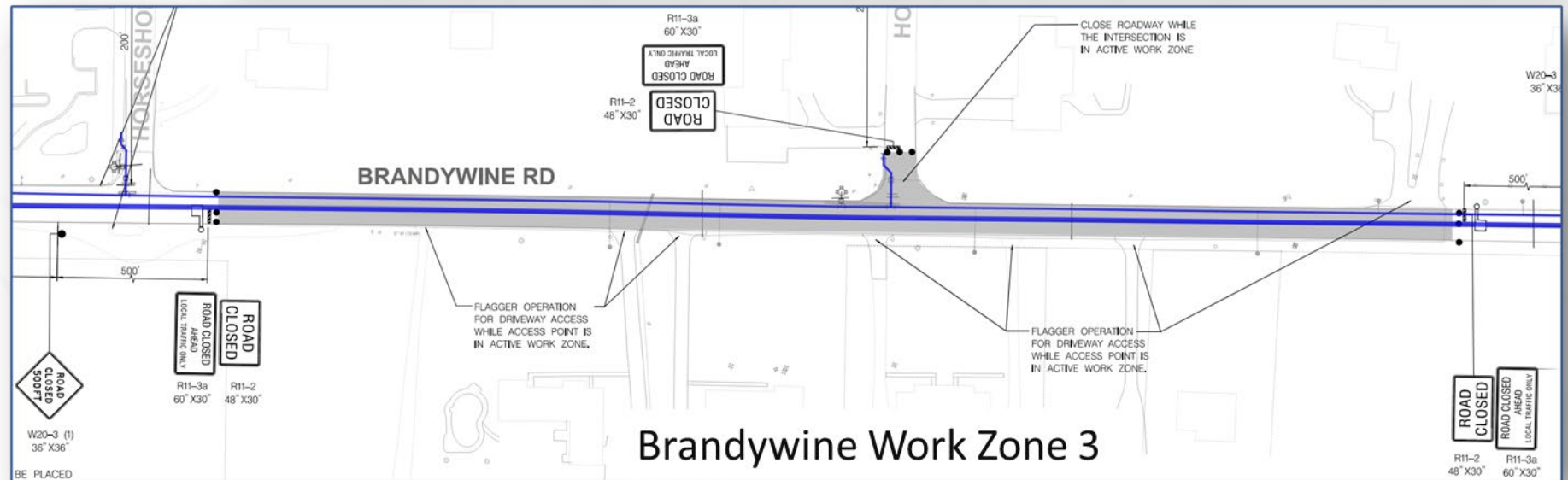
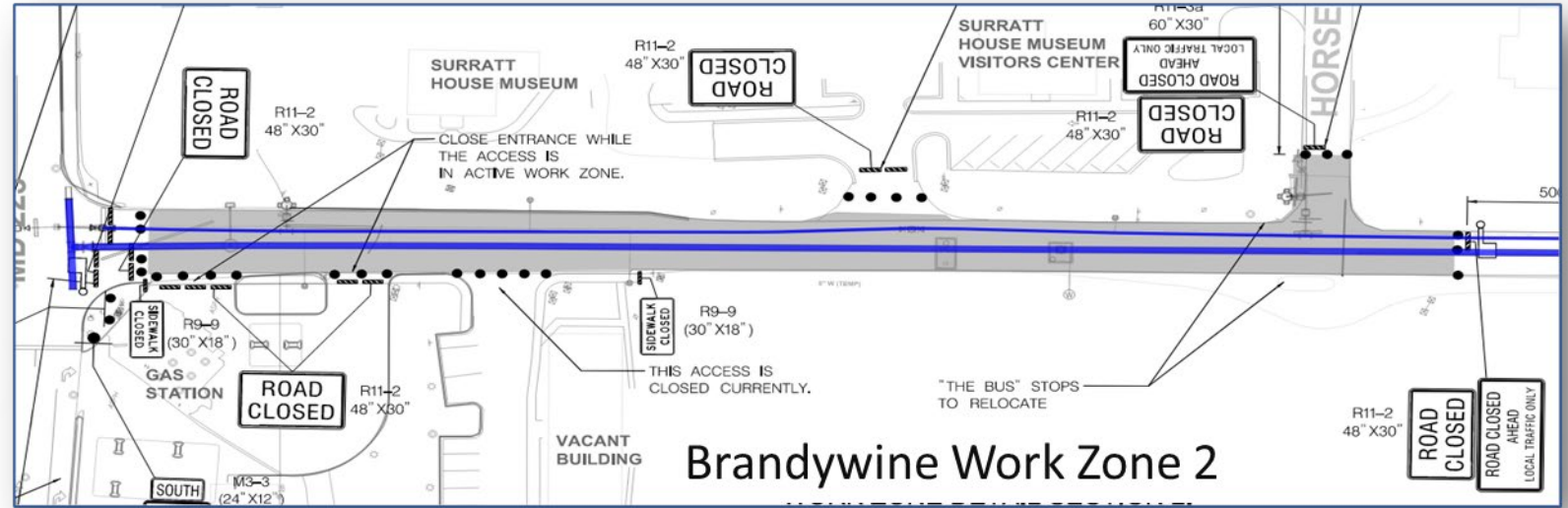
- Fulltime closure to through traffic
- Access maintained for local residents, businesses, and emergency vehicles
- Majority of work to be done during school summer break

BRANDYWINE ROAD CLOSURE
FROM WOODYARD ROAD (MD 223) TO SURRATTS ROAD
PROPOSED TRAFFIC DETOUR AND TRAFFIC COUNTS



Brandywine Road – Pipeline Construction

- **Local Access Only** from MD 223 to the VFW site
- Full road closure in phases
- Active Work Area
 - localized
- Contractor must coordinate with residents for driveway obstruction



Brandywine Road – Pipeline Construction

What to expect:

- **Traffic Detour Brandywine Rd**
 - **Between MD 223 and Surratts Road**
 - **Closed to through traffic – 24/7**
 - **May to September**
- **Work schedule: 7:00 AM to 6:00 PM, Monday-Friday (during road closure)**
- **Access for emergency vehicles will be ensured**
- **The Active Work Area within each Work Zone will be coordinated with the residents by the Contractor**
- **After Road Closure**
 - **Work in the road will be 9:00 am to 3:30 pm**
 - **Flagging for traffic control**

Brandywine Road – Pipeline Construction



What to expect (continued):

- **Construction activities will include:**
 - Temporary Water Main installation (maintains service to meters and hydrants)
 - Heavy Construction Equipment
 - Excavation/Water Main Installation
 - Field review, survey and test pits
- **Reliable water and sewer service will be maintained during construction - expect short periods of interruption:**
 - Possible water shut-down periods up to 8-hours (maximum)
 - 48-72 hours advanced notification will be provided prior to service shut-downs
 - Access into homes is not required
- **Water Service lines replaced from Main to Meter/Curb Stop**
- **Final Permanent Pavement Restoration will be under separate contract**

Clinton Phase 4 – Surratts Road

- 3,600 feet of 42” Pipe
 - From west of Hale Dr to MD 5
 - Open-cut (trench) installation
 - Short tunneled culvert crossing
 - (east of Stuart Lane)
 - Within County Right of Way
 - Primarily in paved road
 - Some tree clearing
- Replace 800 feet of 10” Pipe
 - Hale Rd to Beverly Ave
 - Water Service Replacements (main to meter/curb stop)



Surratts Road- Pipeline Construction

What to expect:

- **Surratts Road Closure not required**
 - Flagging for single lane traffic at active work area
- **Beverly Ave Detour (approximately 2 weeks)**
 - Between Surratts Road and Louise Lane
 - Detour to Hale Drive
 - Only northbound access from Surratts – approximately 1 week
 - No access from Surratts – approximately 1 week

Surratts Road – Pipeline Construction

What to expect (continued):

- Work schedule: 9:00 AM to 3:30 PM, Monday-Friday
- Access for emergency vehicles will be ensured
- Contractor will coordinate with residents along Surratts Rd for Active Work Area and driveway impacts
- The Active Work Area within each Work Zone will be coordinated with the residents by the Contractor
- Access into homes is **NOT** required; Access onto private property is generally **NOT** required
- Water Service Interruptions – for new service connections will be notified in advance
- Final restoration of sidewalks, roadways and landscaping will take place within 90 days of construction completion

Clinton Transmission Main – Phase 4



Estimated Construction Schedule:

- **Design and Permitting Complete – March 2023**
- **Bid - Summer 2023**
- **Construction Spring 2024 through Spring 2026**
- **Construction on Brandywine will take place in summer when school is not in session**

Typical Construction – Large Pipeline



Open-cut construction method, which involves cutting and excavating a section of the pavement.
This construction method does create noise and dust.
Short trenchless (Jack & Bore) construction required under a culvert on Surratts Rd

Typical Construction – Large Pipeline



Typical Construction - Large Pipeline



Heavy-lift crane required for handling large pipe

Material hauling – stone, soil



What to Expect During Construction

- Anticipated Work schedule: 9:00 a.m. to 3:30 p.m., Monday-Friday
 - Conditions at some locations may require different work hours
 - Residents will be notified at least two days prior to all construction activities
- Construction activities may include:
 - Marking locations of utilities
 - Field inspections
 - Rehabilitation of sewer mains, manholes and laterals
 - Pavement restoration where digging is necessary
- WSSC Water coordinates with local and state agencies, as well as other utilities for all planned work to avoid potential conflict and minimize disturbances to neighborhoods



Temporary Water Service Installation

- Above-ground (bypass) pipes may be installed to maintain water service to your home
 - Bypass pipes are not used in cold weather months
- These pipes will be placed along the roadway edge and provide the same quality of water to your home



Fire Hydrant Installation

- WSSC Water is responsible for providing water for fire protection to Montgomery and Prince George's counties
- To safeguard public safety, we proactively replace and maintain our fire hydrants to monitor water pressure and flow rate, as well as inspect internal working parts to ensure the highest level of protection
- Per the Fire Safety Code, the maximum spacing between fire hydrants is 250-600 feet, depending on the building structure
- WSSC Water fire hydrants are made of cast iron materials and can last more than 50 years



WSSC Water fire hydrants have dark green top and gray body.

Tree Removal and Pruning

- Per the Department of Natural Resources Maryland Forest Service Public Agency Tree Maintenance Permit, construction methods that minimize tree impacts must be examined
- Before the final decision to remove a tree, WSSC Water considers the following:
 - Size, species and structural condition of the tree
 - Impact the tree will have on utility assets
 - Feasibility of relocating our infrastructure or using trenchless methods
- WSSC Water Urban Forester supervises all tree removal and pruning



Pipes and Trees do not mix!



Signage and Restoration

- Construction signs with contact persons placed throughout project area
- Projects completed during winter months are permanently paved and restored to their original state or better the following spring



Operational Changes in response to COVID-19

- WSSC Water has implemented protocols that align with recommendations from local, state and federal public health authorities
- Working to minimize impact
 - Facial masks (when indoors) and physical distancing
- All WSSC Water employees and contractors are required to refrain from coming to work if displaying symptoms of COVID-19
 - We have implemented robust internal contact tracing and quarantine requirements
- Earlier notification to customers



Project Summary



- A new 42/36 inch transmission water main will be constructed under Brandywine Road and Surratts Road
- Existing 16 inch PCCP pipe and water house connections on Brandywine road will also be replaced at the same time up to the property line
- Modified traffic pattern will be experienced in some construction area including temporary roadway closure
- WSSC Water will minimize service disruptions during construction
- WSSC Water will coordinate work activities with property owners in the project area
- WSSC Water will restore all areas impacted by construction activities at the end of the project
- WSSC Water's goal is to provide a safe and reliable water system to customers

Contact WSSC Water



- **Customer Service** | Monday-Friday, 7:30 a.m. to 7:00 p.m.

Phone: 301.206.4001 | 1.800.634.8400

Email: customerservice@wsscwater.com

- **24-Hour Emergency Call Center**

Water Emergency, Sewer Emergency or Discolored Water

Phone: 301.206.4002 | Email: emergencycallcenter@wsscwater.com

Report a Problem: wsscwater.com/customer-service/report-problem

Discolored Water: wsscwater.com/discoloredwater

- **File a Claim**

Phone: 301.206.7095

Online: wsscwater.com/claims

- **WSSC Water Financial Assistance Programs**

Online: <https://www.wsscwater.com/assistance>

- **Customer Notification System Sign-Up**

Online: www.wsscwater.com/cns, email and/or text alerts on work in your neighborhood



FINANCIAL ASSISTANCE
for Our Neighbors



Questions?

