



# Northwest Branch Basin Environmental Sensitive Area Sewer Rehabilitation

Project No. CKCNMH6993A20

May 29, 2024

# Agenda

- Introduction to Project Team
- WSSC Water Overview
- Sewer Rehabilitation Program Overview
- Project Overview
- Project Map
- Sewer Rehabilitation Methods
- Estimated Construction Schedule
- What to Expect During Construction
- Questions & Answers

# Project Team

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- Wallace Montgomery, Engineering Design Consultants
- AM-Liner East, Inc., Construction Contractor

**106** years & counting  
No drinking water quality violations...ever!



# WSSC WATER AT A GLANCE



Established in 1918, WSSC Water is the largest water/wastewater utility in Maryland and among the largest in the nation. Our service area spans approximately 1,000 square miles in Prince George's and Montgomery counties. We proudly serve 1.9 million residents with safe and reliable drinking water and help protect the Chesapeake Bay by treating and returning clean water back to Maryland waterways.



**162,000,000** GALLONS OF WATER PER DAY  
DELIVERED TO **1.9 MILLION** RESIDENTS

**3** RESERVOIRS

**2** WATER FILTRATION PLANTS

**60** WATER TANKS

**55** PUMPING STATIONS

**6** WATER RESOURCE RECOVERY FACILITIES

**1,630** EMPLOYEES

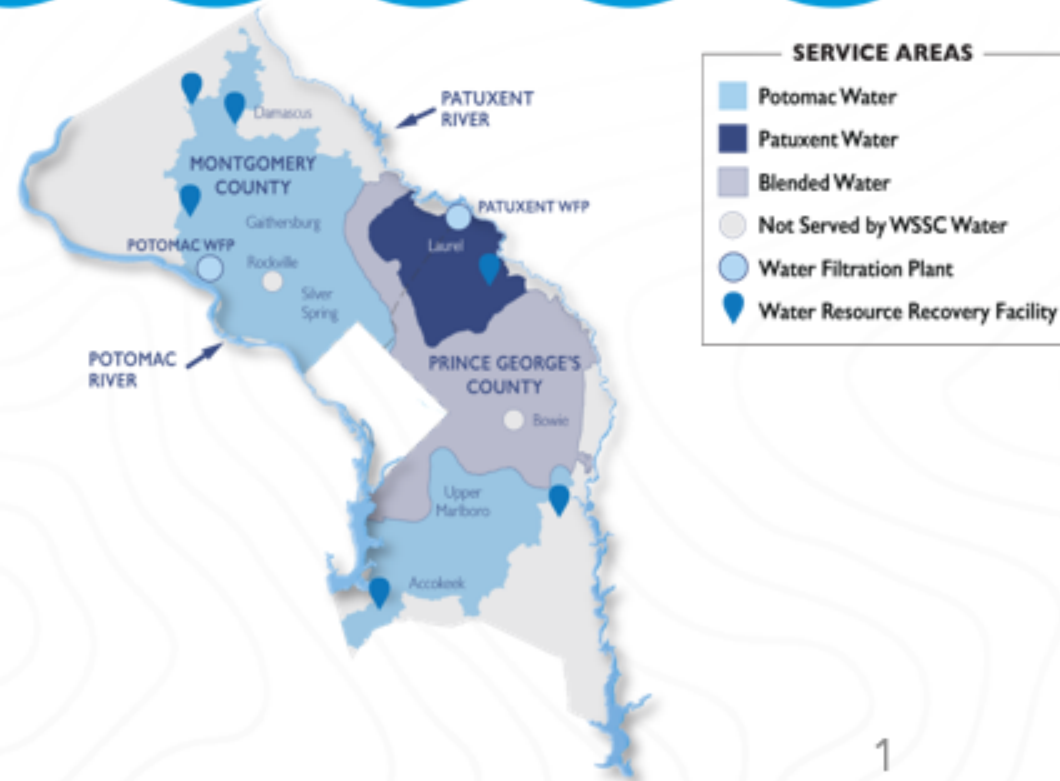
Our drinking water system spans **5,800+** miles

Our wastewater system spans **5,600+** miles

**500,000** WATER QUALITY TESTS PER YEAR

**504,800** METERS IN OUR SYSTEM

**2.25** MILLION METER READS PER YEAR



# Sewer Rehabilitation Program Overview



- Strategically replacing and rehabilitating aging infrastructure to enhance service and reliability to customers
- Replacing and repairing aging pipes and manholes as part of our comprehensive sewer rehabilitation program
- Correcting structural deficiencies in sewer mains that may result from soil settlement, root penetration or corrosion
  - These often contribute to sanitary sewer overflows and backups into homes
- Protecting the environment for future generations

# Environmentally Sensitive Areas Overview

- Environmentally sensitive areas (ESAs) are landscape elements or places vital to long-term maintenance of soil, water or other natural resources both on site and in the region.
- Examples of ESAs
  - Critical Areas (within 1,000 feet of rivers or bays)
  - Sensitive Species Habitat
  - Historic Properties
  - Parklands
  - Forests
  - Wetlands and Waterways



Above grade manhole



Exposed sewer pipes

# Project Overview

- Approximately 0.53 miles of 30-inch sewer pipes and 12 manholes and the structural supports for the aerial sewers to be rehabilitated or replaced
- Sewer pipes and manholes rehabilitated using primarily trenchless methods
- Pipes and manholes in very poor condition will be replaced or repaired.
- Installation of temporary access road from roadway to the project site
- Stream stabilization: restoration of stream to its natural state
- Completed projects will extend life of sewer pipes by at least 50 years



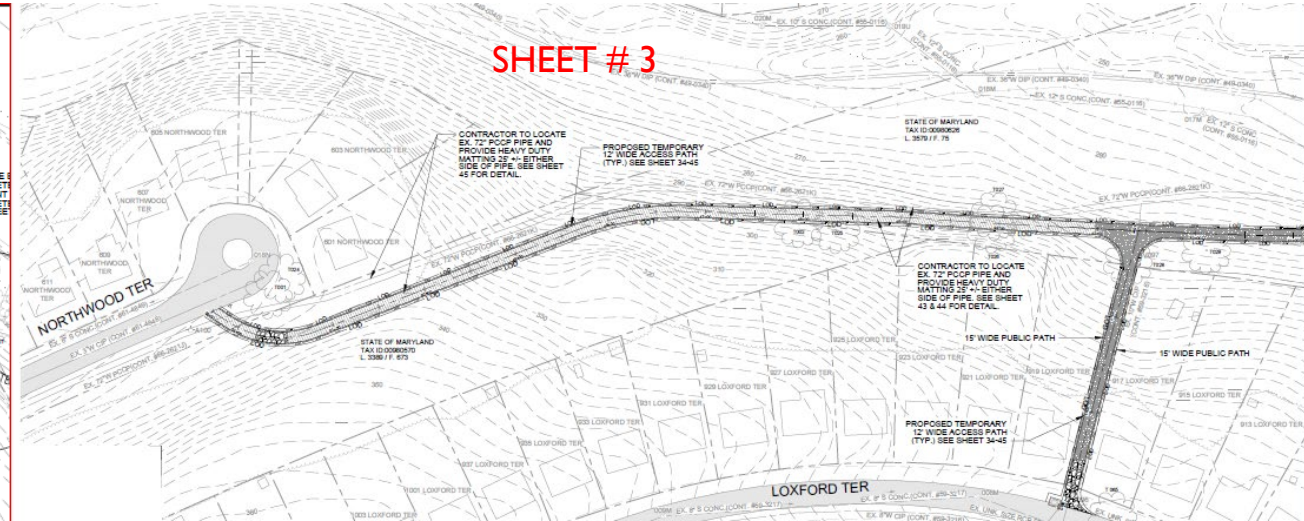
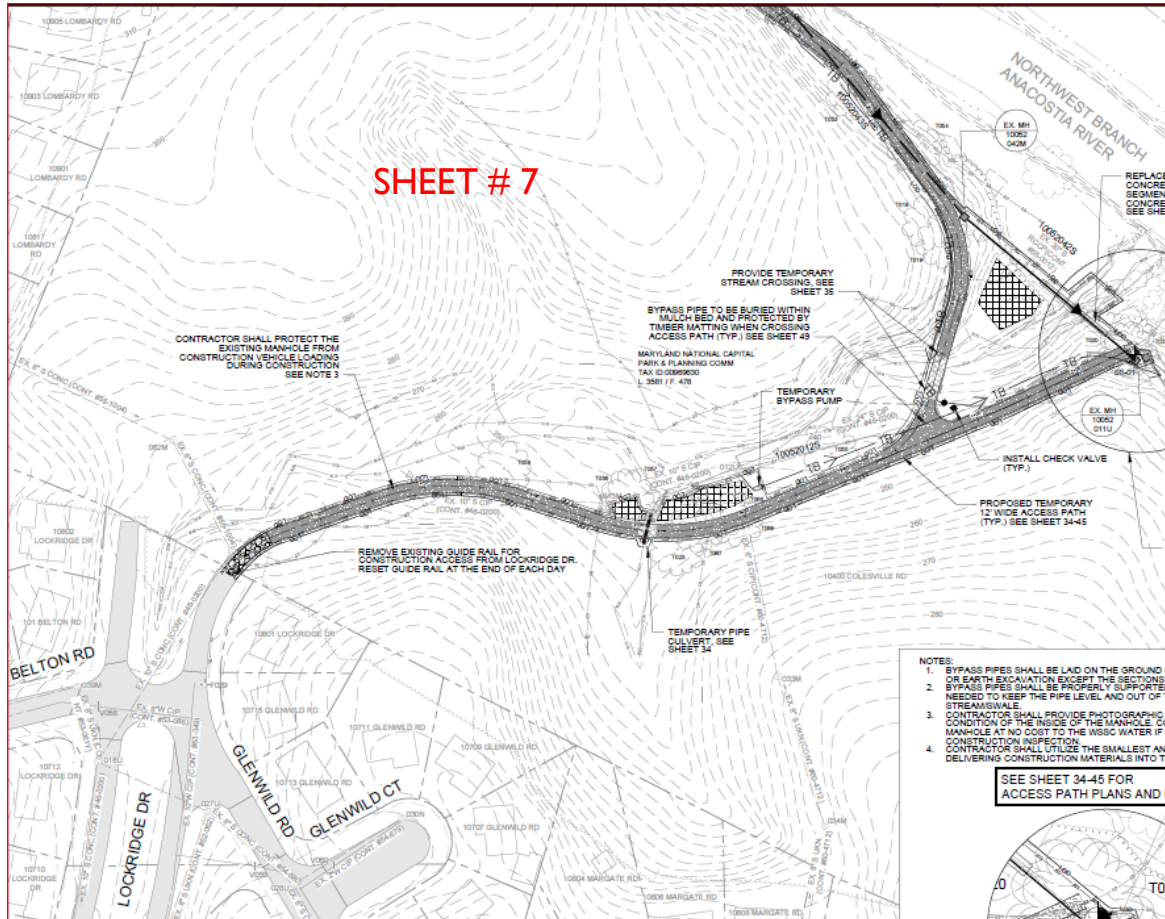
*Example of stream stabilization.*

# Project Map





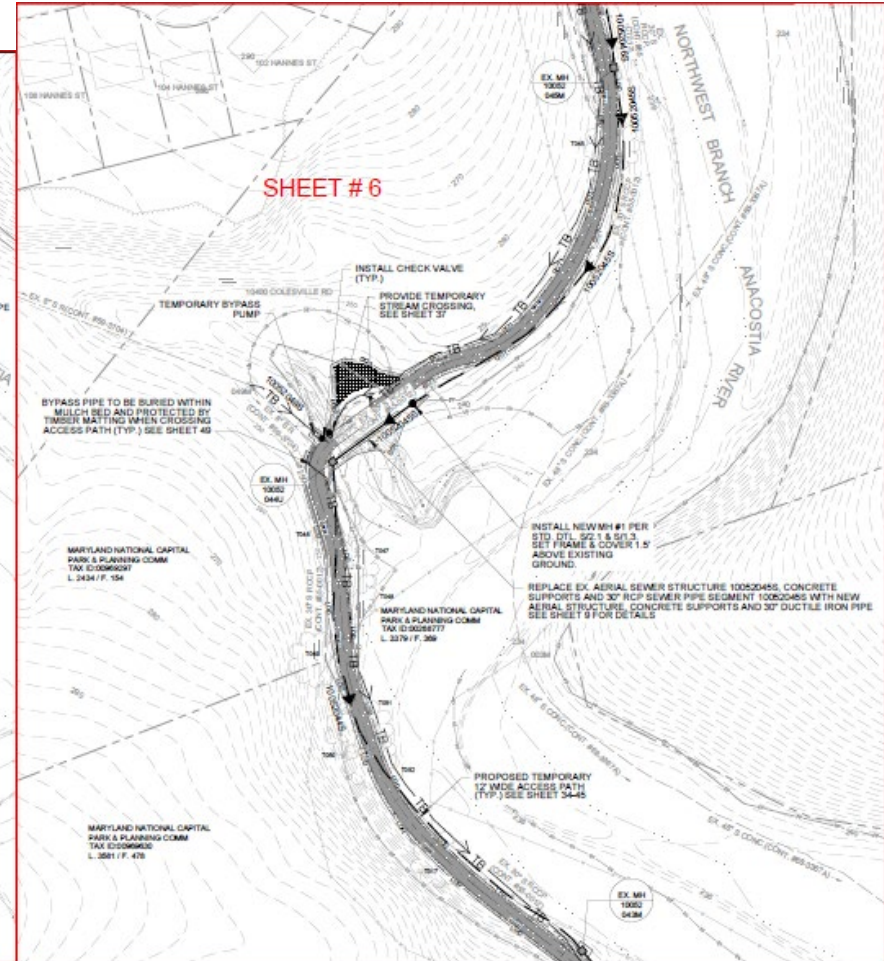
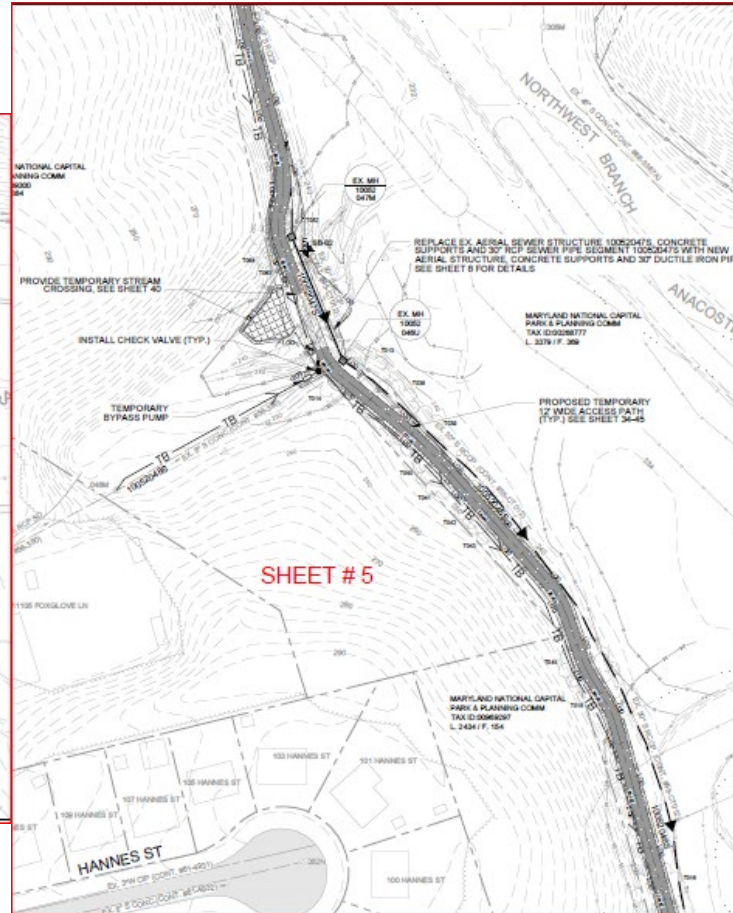
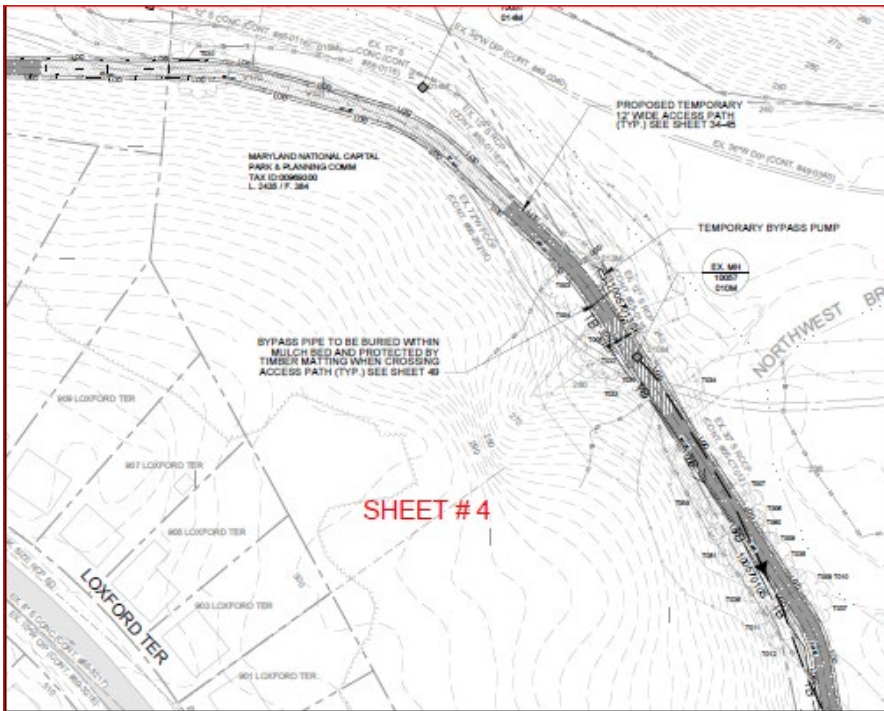
# Project Map (Cont'd)



## Directly Impacted Streets

- Lockridge Drive
- Glenwild Road
- Northwood Terrace
- Loxford Terrace

# Project Map (Cont'd)



# Sewer Rehabilitation Methods

- Sewer Rehabilitation

- Lining
- Pipe Bursting
- Grouting
- Open-cut Replacement

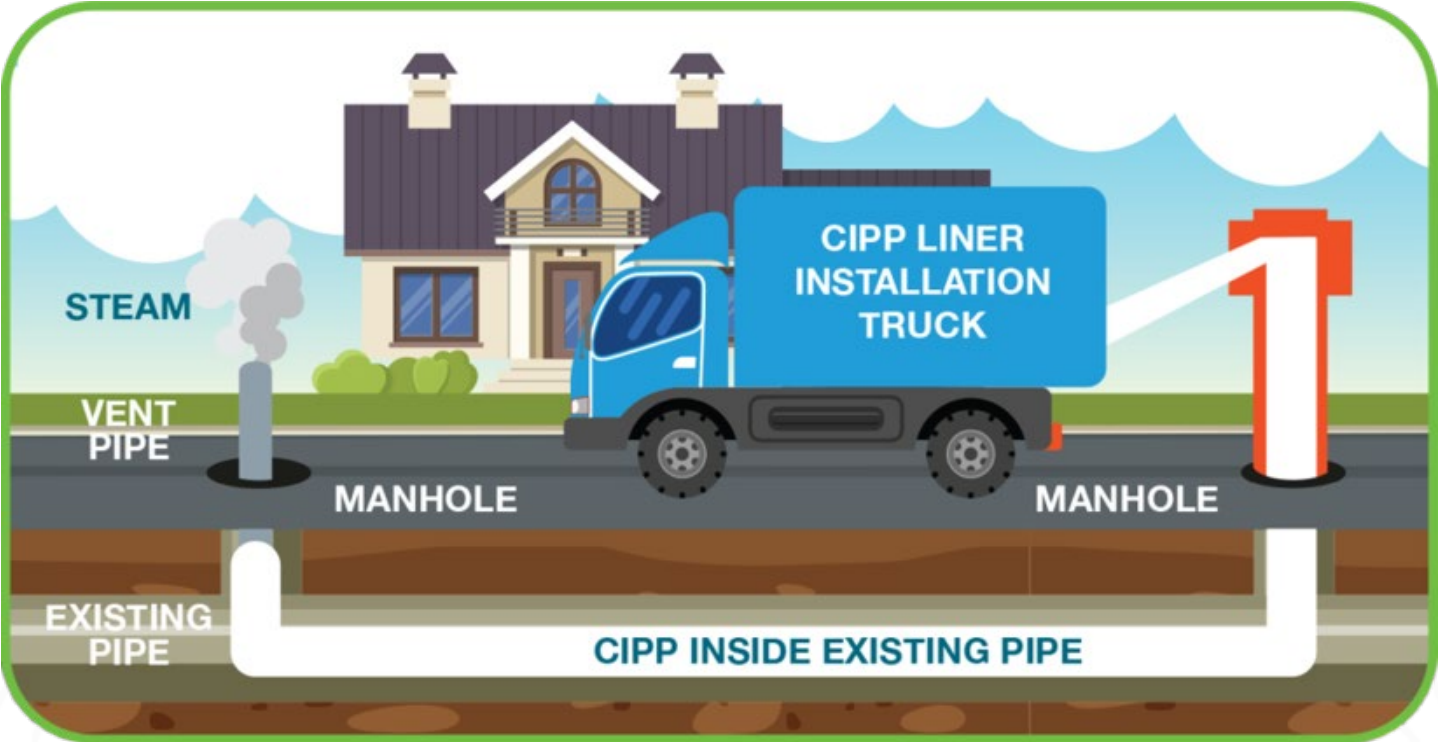


- Manhole Rehabilitation

- Frame and Cover
- Replacement/Adjustment
- Lining



# Sewer Rehabilitation Method: Pipe Lining



# Sewer and Manhole Improvements: Bypass System



# Sewer Rehabilitation Method: Bypass

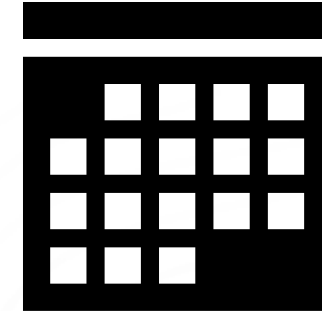


# Manhole Rehabilitation



# Estimated Construction Schedule

- Expected Construction Start Date: November 2024  
*(Pending Permit Acquisition)*
- Estimated Construction Duration: 15 months
- Expected Construction Finish Date: February 2026  
*(Weather Permitting)*





# What to Expect During Construction

- Anticipated Work schedule: 8:00 a.m. to 4:00 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
  - Construction of temporary access road
  - Stream stabilization
  - Rehabilitation of sewer mains, manholes and laterals
  - Pavement restoration where digging is necessary



*Stream Stabilization*

# What to Expect During Construction

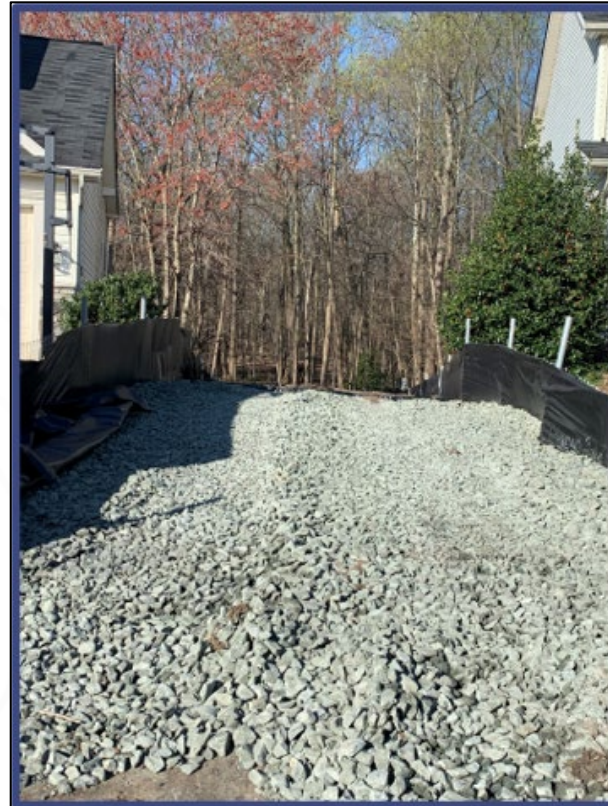
- Temporary construction access within parks and private properties constructed and maintained by WSSC Water until all rehabilitation work completed
- Right-of-Entry Agreements from owners of impacted properties obtained prior to construction
- Construction vehicles and bypass pumps on temporary access road occasionally

# Temporary Construction Access Routes

- Avoid specific trees or other sensitive areas, where possible
- Use existing roads, paths and trails to maximum extent practicable



*Temporary Stream Crossing*



*Stabilized Construction Entrance*



*Timber Matting*

# What to Expect During Construction

- Reliable sewer service maintained during construction
- Street parking may be limited on streets with active construction
  - 48-hour advanced notification provided
  - NO PARKING signs posted
  - All roads will remain accessible at all times during construction
    - Certain activities may require temporary closures and delays.
- Access from the public roadway to businesses and homes maintained at all times
- Entry into homes is **NOT** required
- Tree removal, only when necessary, pruning and/or stump removal
  - New trees planted where trees needed to be removed
  - Property owners notified if a tree on their property has to be removed

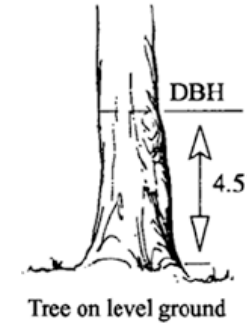
# Traffic Impacts

- Certain construction activities may require temporary changes to traffic patterns
  - Traffic managed to minimize community disruptions
- Access to homes maintained during construction
  - Access into homes is **NOT** required
  - Access onto private property is 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 nearby street at no cost to owner
- Final restoration of sidewalks, roadways and landscaping will take place within 90 days of construction completion

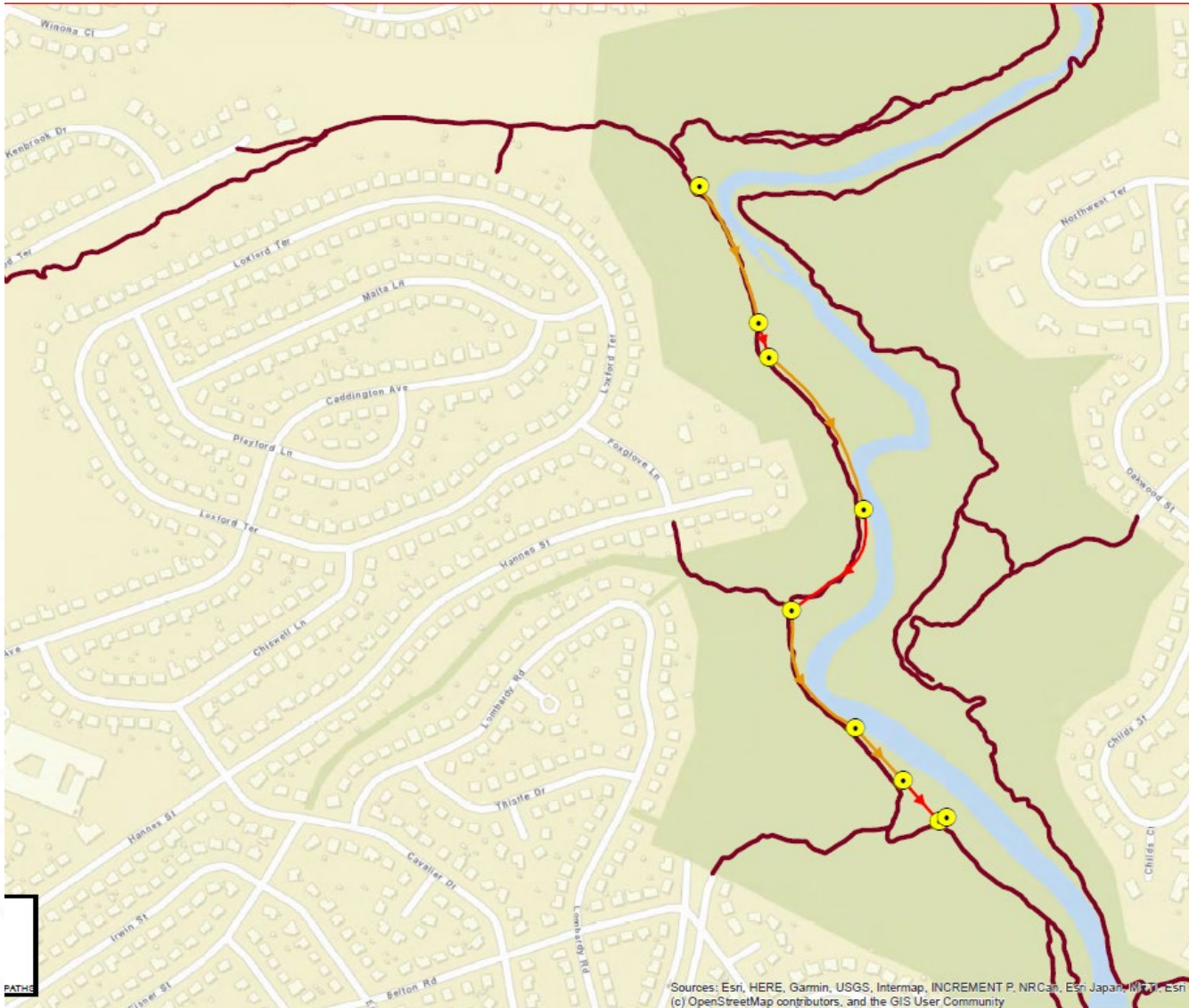


# Tree Impacts

- An estimated 53 trees (6 inches and larger), with a Diameter at Breast Height (DBH) of 634 inches, are to be removed to mainly accommodate the access road
- Trees will be replanted as per the tree replanting plan from MNCPPC
- On site, trees labeled with pink ribbons are to be removed. Trees with blue or no ribbons are to be retained
- During construction, every effort will be made to minimize the tree impacts



# Trail Impacts



- Some parts of the trail would be opened after hours and on weekends
- The trail through project site where the bulk of the work is being conducted would have to be closed from a safety perspective.
- Every effort will be made to keep as many parts of the existing trail as accessible as possible during the project

# Contact WSSC Water



- **Customer Service** | Monday-Friday, 8:00 a.m. to 6:00 p.m.

Phone: 301.206.4001 | 1.800.634.8400

Email: [customerservice@wsscwater.com](mailto:customerservice@wsscwater.com)

- **24-Hour Emergency Call Center**

**Water Emergency, Sewer Emergency or Discolored Water**

Phone: 301.206.4002 | Email: [emergencycallcenter@wsscwater.com](mailto:emergencycallcenter@wsscwater.com)

Report a Problem: [wsscwater.com/customer-service/report-problem](http://wsscwater.com/customer-service/report-problem)

Discolored Water: [wsscwater.com/discoloredwater](http://wsscwater.com/discoloredwater)

- **File a Claim**

Phone: 301.206.7095

Online: [wsscwater.com/claims](http://wsscwater.com/claims)

- **WSSC Water Financial Assistance Programs**

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

- **Customer Notification System Sign-Up**

Online: [www.wsscwater.com/cns](http://www.wsscwater.com/cns), email and/or text alerts on work in your neighborhood



**FINANCIAL ASSISTANCE**  
for Our Neighbors



# HELPING OUR NEIGHBORS: WATER BILL ASSISTANCE

**Promise.**

Sign up for an affordable, flexible and interest-free payment plan. Customers with a past-due balance of \$50 or more are eligible.

## **CUSTOMER ASSISTANCE PROGRAM (CAP)**

CAP assists approved residential customers by waiving fixed fees, providing free annual plumbing inspections for water leaks, and much more.



Eligible customers can access the Water Fund multiple times, up to \$500 per year.



Provides a loan of up to \$5,000 to finance the replacement of a leaking residential water service line. PipeER is administered by the WSSC Federal Credit Union.



**Questions?**

