



Clean Rivers Project - Potomac River Tunnel

House of Sweden

March 27, 2024



Moussa Wone, Vice President, DC Clean Rivers Project

1. Team Introduction and purpose of the meeting
2. DC Clean Rivers
 - 1) Combined Sewer System in the District
 - 2) Clean Rivers Project and Performances
 - 3) General Construction Process
 - 4) Public Outreach and Engagement
3. Potomac River Tunnel Project Sites
 - 1) Potomac River Tunnel
 - 2) Anticipated Schedule
 - 3) CSO 024 Site
 - 4) CSO 024, 027 & 028 Hauling Routes
 - 5) Upcoming Investigations
4. Conclusion & Questions

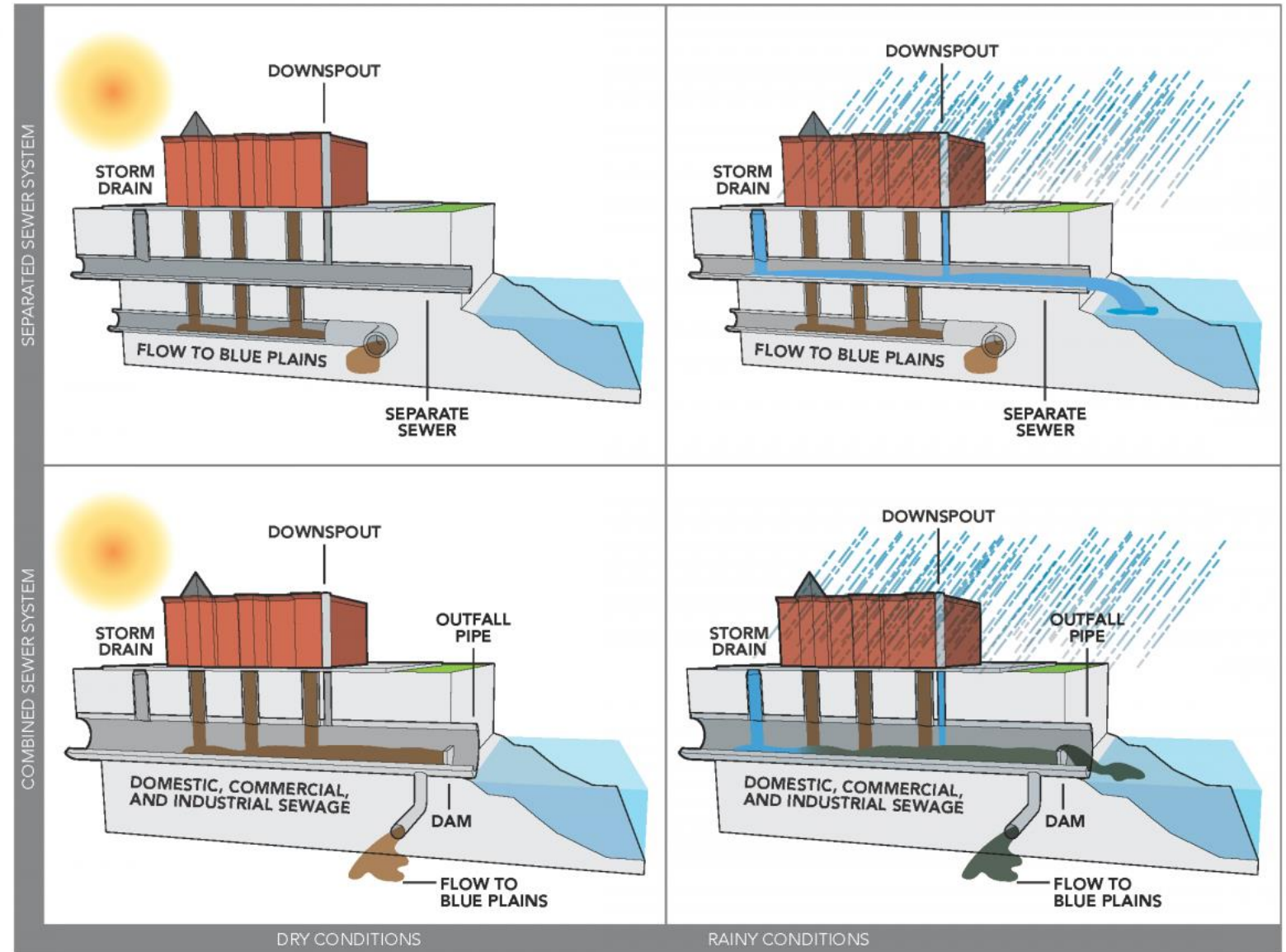
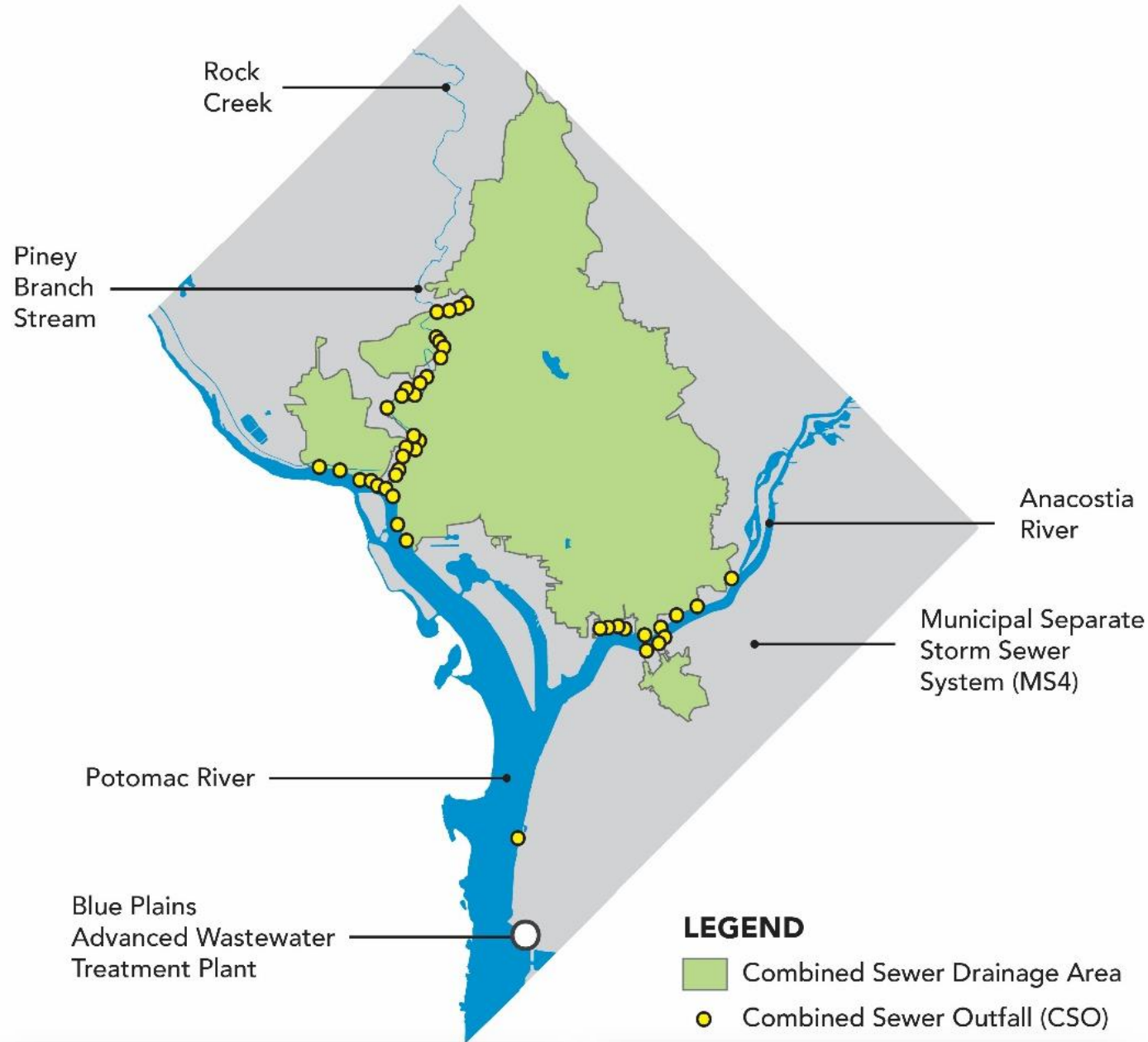
Team Introduction & Purpose of the meeting



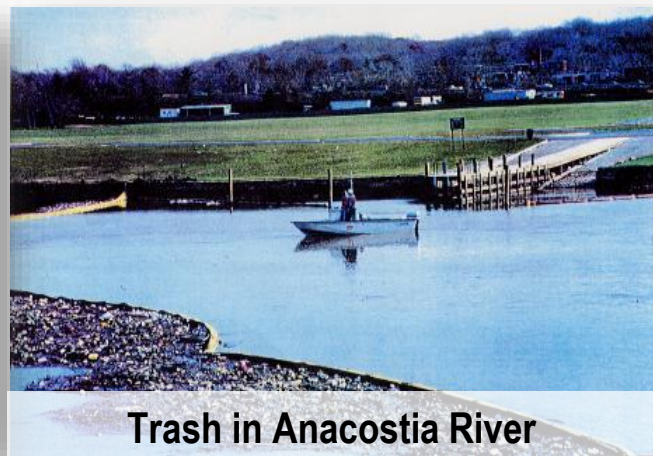
DC Clean Rivers



Combined Sewer System in the District



CSO Discharge to Anacostia River



Trash in Anacostia River

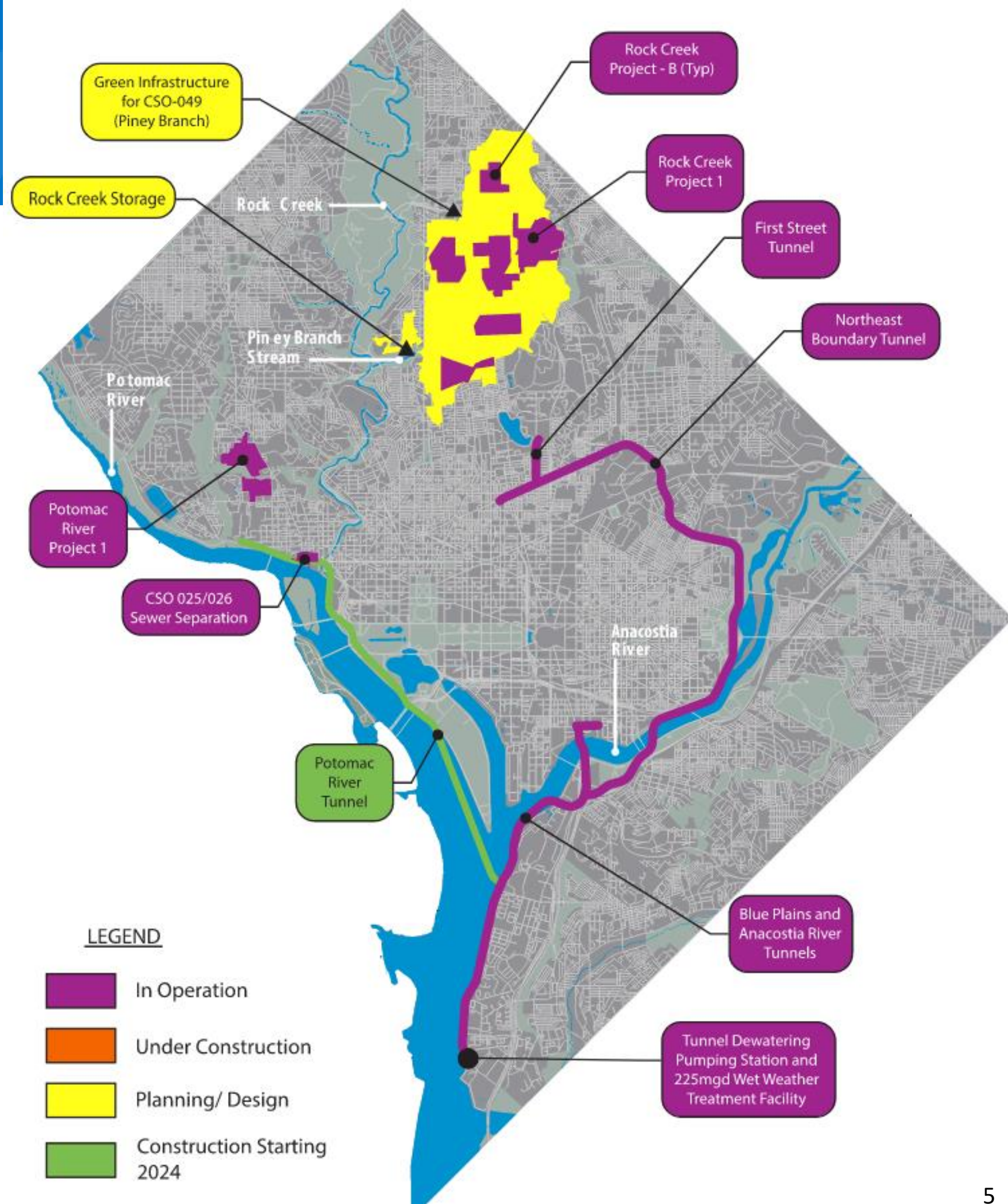
- 1/3 of District is served by combined sewers (12,478 acres)
- Combined Sewer Overflow (CSO) outfalls
 - 15 to Anacostia River
 - 10 to Potomac River
 - 23 to Rock Creek

DC CLEAN RIVERS PROJECT AND NITROGEN REMOVAL PROGRAMS

- 💧 DC Clean Rivers Project: \$2.99 Billion
- 💧 Nitrogen Removal: \$950 Million
- 💧 Total > \$ 3.4 Billion
- 💧 25 yr implementation (2005 – 2030)
- 💧 96% reduction in CSOs
- 💧 Approx. 1 million lbs/yr nitrogen reduction

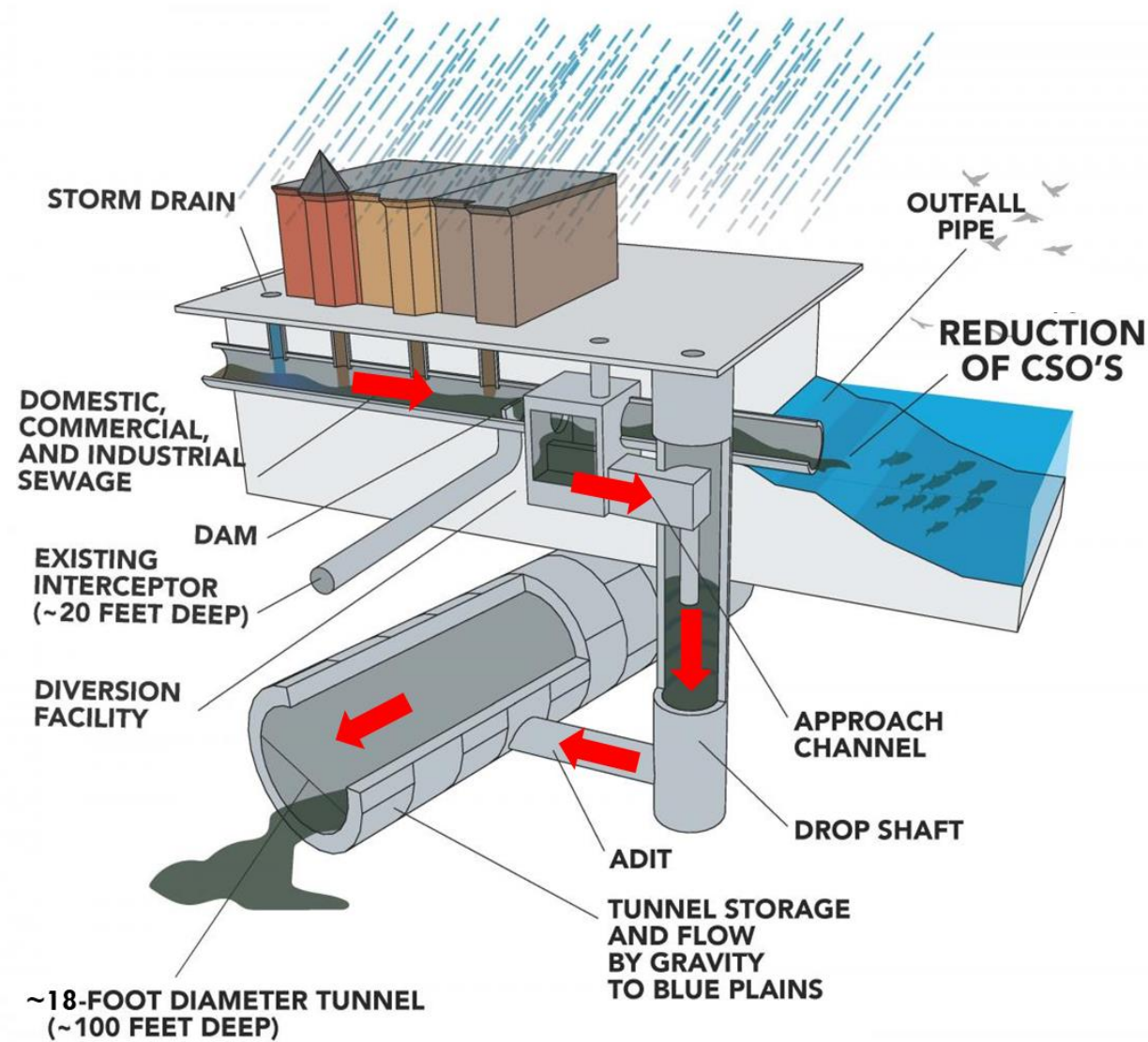


Aug 22, 2022 at 9:32:51 AM



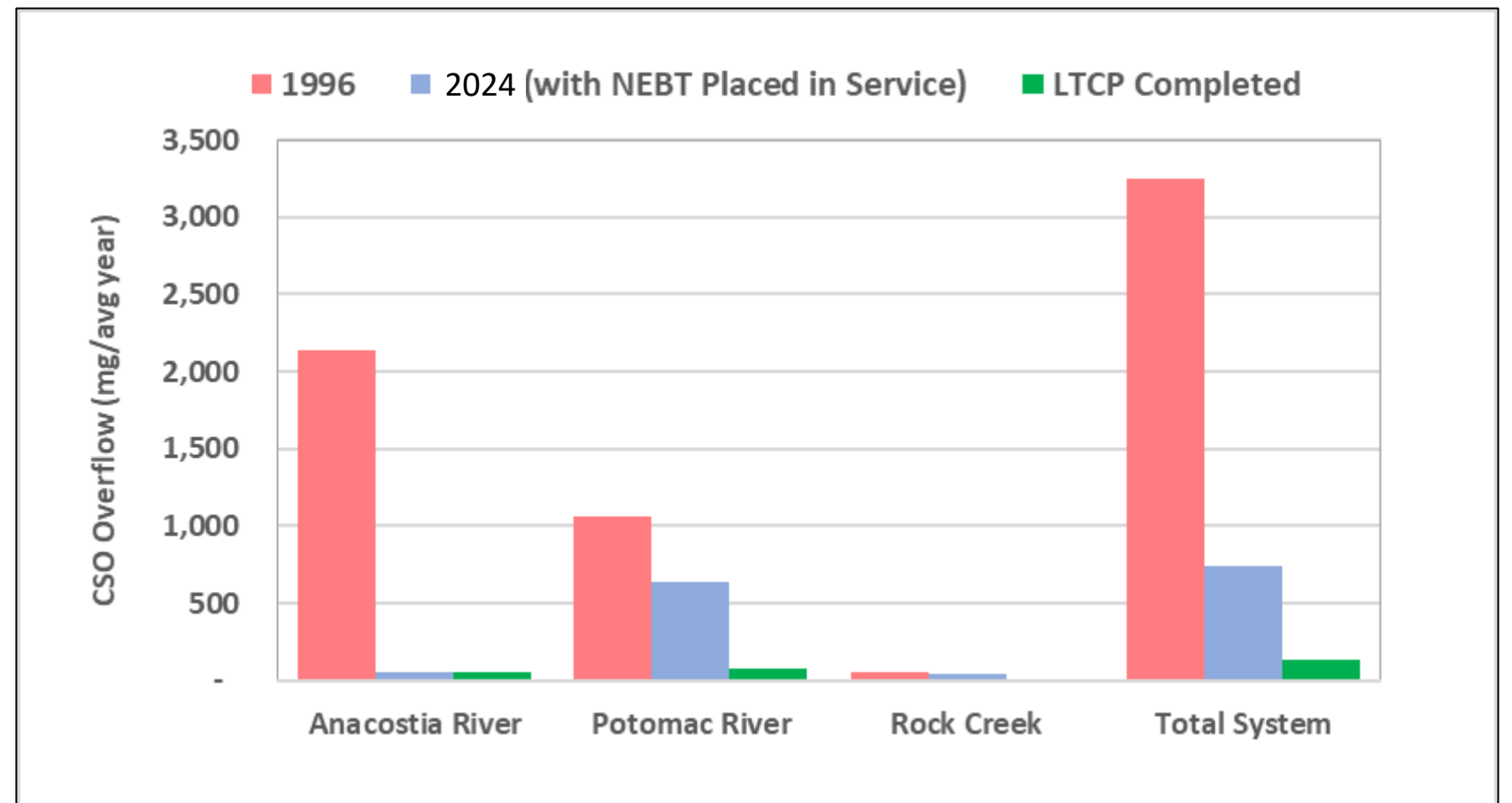


Clean Rivers Project Performance



Parameter	Phase	Anacostia River	Potomac River	Rock Creek	Total
CSO Volume (mg/avg year)	DC Water created (1996)	2,142	1,063	49	3,254
	Clean Rivers complete	54	79	5	138
	% reduction	98%	93%	90%	96%
CSO Frequency (#/avg yr)	DC Water created (1996)	82	74	30	82
	Clean Rivers complete	2	4	1 / 4 ¹	4

¹One at Piney Branch, four at the other Rock Creek CSOs



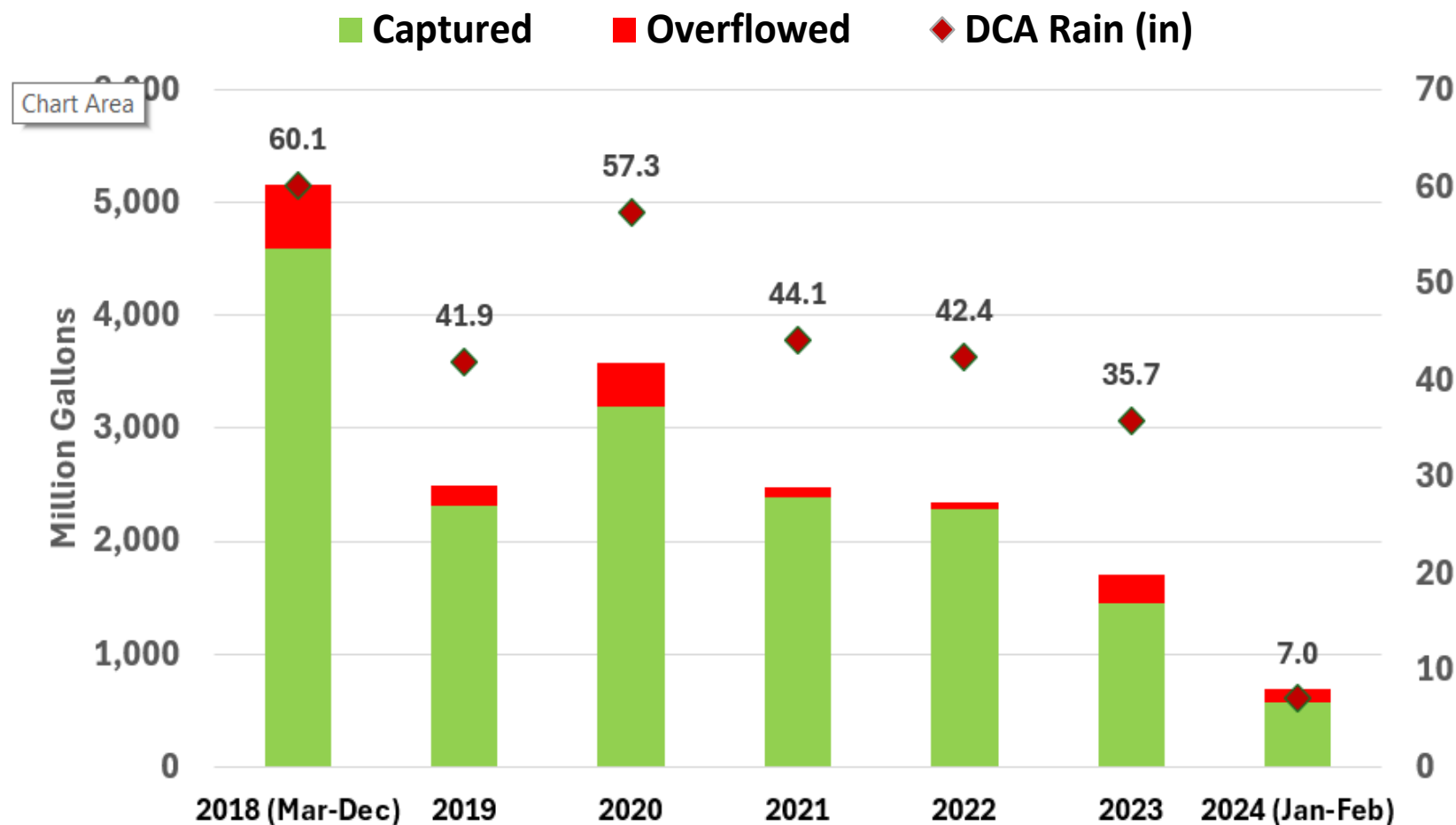
Project is required by a Consent Decree signed by EPA, DOJ, District of Columbia & DC Water



Anacostia Tunnel System Performance to Date

- Over **16.8 billion gallons** captured March 2018 – February 2024
- Over **10,339 tons of trash**, debris, and other solids captured
- Exceeding predicted capture rate (**91% > 80%**)

Anacostia Tunnel System Performance



Trash, Debris and Solids Removed at Blue Plains from Anacostia Tunnel System



General Construction Process

- 24/7 Project Hotline
- Work Hours
 - Anticipated Weekdays: 7:00am – 7:00pm
 - Weekend work may be considered
- Water and sewer services
 - Continued service anticipated
- Site conditions
 - Site secured at the end of each workday
 - Site restored in kind per DDOT requirements at construction completion
- Site Security
 - Signage
 - Barriers or fencing
- Vibration and noise monitoring and mitigation, dust control, and rodent control will be in place throughout project.
- Access for garbage collection, other contractors, handicap access, home health care needs, etc. to be provided as needed
- Tree Protection
 - Tree protection will be provided as necessary and as required by NPS/Urban Forestry Administration permit

We are committed to:

- Providing regular updates and communication to Councilmember Pinto's office, Mayor's office, Georgetown BID, impacted ANCs, businesses, and residents.
- Maintaining a 24-hour project hotline
- Coordinating with major event organizers such as Cherry Blossom Festival, Marine Corp Marathon, etc.
- Hosting numerous public meetings and community day events to increase project awareness
- Advanced notification to all impacted stakeholders
- Maintaining the project website and providing updates throughout the construction phase www.dcwater.com/prt
- Providing updates to our email distribution list and door-to-door canvassing as needed
- Receiving input from the affected neighbors through community meetings and presentations, and via our project hotline and email
- Attending ANC meetings and other community meetings as needed
- Coordination with property managers at surrounding business and residential buildings.

Potomac Tunnel Work Sites



Potomac River Tunnel

Project

- Approx 5.5 miles of 18' finished tunnel
 - 2.4 miles in rock (north)
 - 3.1 miles in soil (south)
- 7 shafts
- Connection to existing Tunnel System

Schedule

- NTP: Nov 2023
- Construction Start: 2024
- Consent Decree Deadline: 2030

LEGEND

- Potomac River Tunnel
- Anacostia River Tunnel System
- Construction Site With Diversion Facility
- West Potomac Park Site
- Connection to Blue Plains Tunnel and JBAB Overflow Site



SITE LOCATIONS

- CSO 029**
Georgetown University: West of Canal Road Entrance
- CSO 028**
Georgetown: Capital Crescent Trail west of Aqueduct
- CSO 027**
Georgetown: Georgetown Waterfront Park
- CSO 024**
Georgetown: K St NW and 30th St NW
- CSO 022**
Rock Creek Trail west of the Watergate Complex
- CSO 021**
Victura Park at Kennedy Center
- CSO 020**
West side of the Park at Lincoln Memorial
- West Potomac Park**
West Potomac Park Field #7
- Tunnel Connection to JBAB**
Riverfront location at Joint Base Anacostia-Bolling



Anticipated Schedule (simplified)

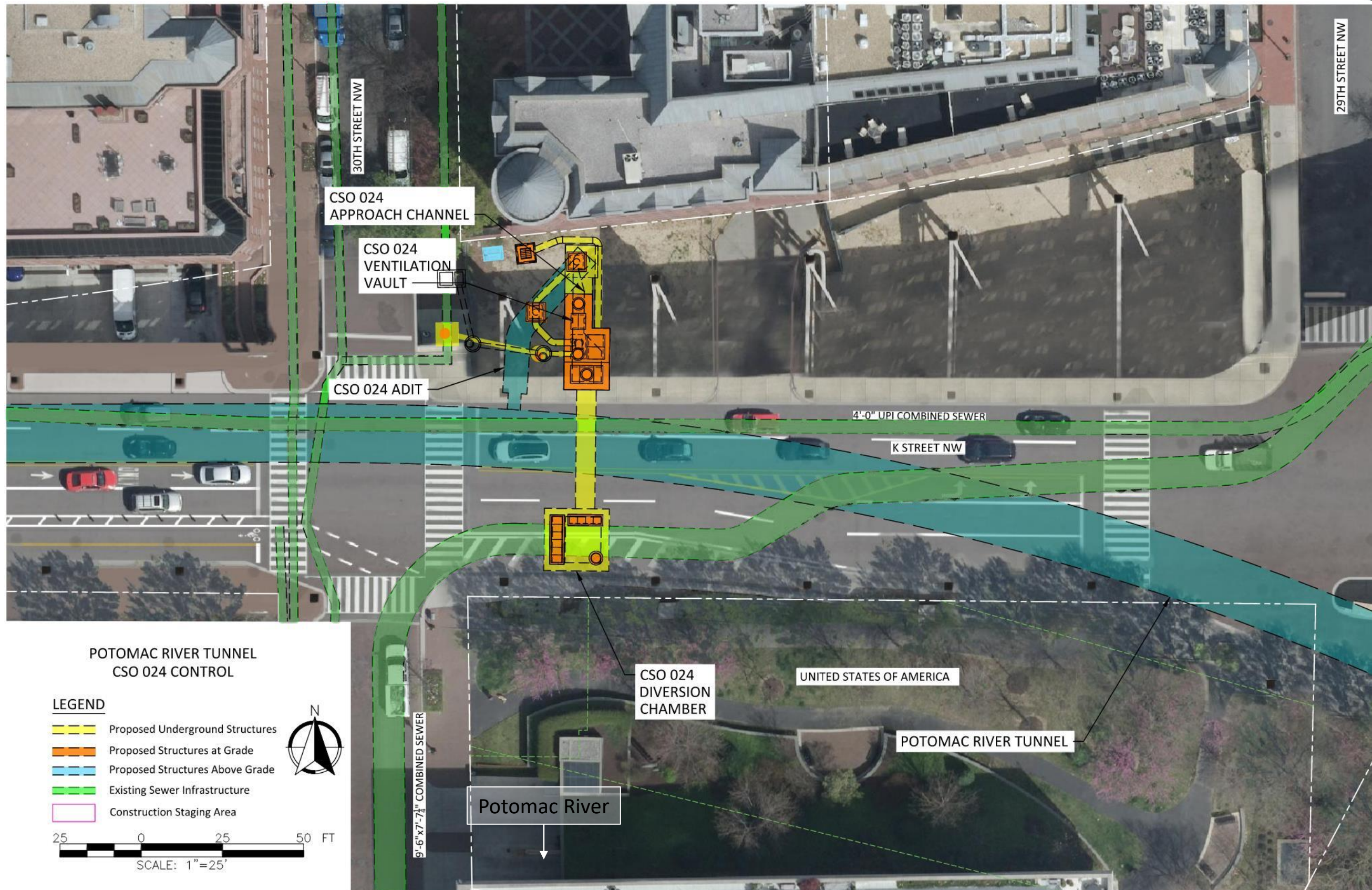
Legend

- Planned work
- Work may be performed pending construction progress/schedule adjustments

Activity	2024				2025				2026				2027				2028				2029				2030							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
West Potomac Park	Planned work				Planned work				Planned work				Planned work				Planned work				Planned work				Planned work							
CSO 022 (Watergate)				Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Work may be performed pending construction progress/schedule adjustments	Work may be performed pending construction progress/schedule adjustments										
CSO 028 (C&O Canal at Key Bridge)				Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Work may be performed pending construction progress/schedule adjustments	Work may be performed pending construction progress/schedule adjustments										
CSO 027 (Potomac and K St NW)					Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Work may be performed pending construction progress/schedule adjustments	Work may be performed pending construction progress/schedule adjustments														
CSO 024 (30th and K St NW)						Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Work may be performed pending construction progress/schedule adjustments	Work may be performed pending construction progress/schedule adjustments														
CSO 020								Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Work may be performed pending construction progress/schedule adjustments	Work may be performed pending construction progress/schedule adjustments										
CSO 029 (Georgetown University)									Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Work may be performed pending construction progress/schedule adjustments	Work may be performed pending construction progress/schedule adjustments										
CSO 021 (Kennedy Center)																					Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Work may be performed pending construction progress/schedule adjustments			
JBAB									Planned work	Planned work	Planned work										Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work	Planned work				

← Planned Tunnel Mining →

Schedules subject to change



**POTOMAC RIVER TUNNEL
CSO 024 CONTROL**

LEGEND

- Proposed Underground Structures
- Proposed Structures at Grade
- Proposed Structures Above Grade
- Existing Sewer Infrastructure
- Construction Staging Area

Scale: 1" = 25'

25 0 25 50 FT



CSO 024 Site - Renderings

Anticipated Construction:
2025 through 2027 (planned)



Existing

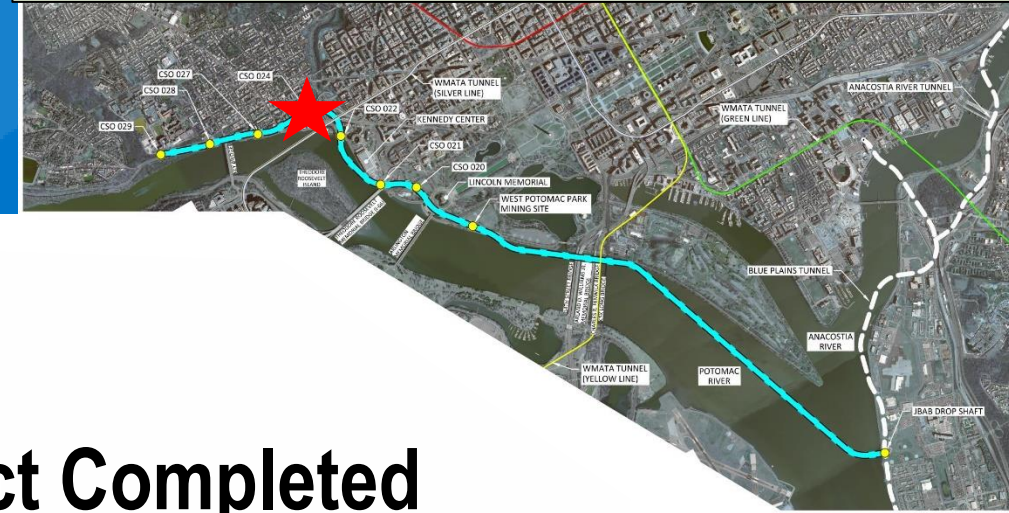
Project Completed





CSO 024 Site - Renderings

Anticipated Construction:
2025 through 2027 (planned)



Existing

Project Completed



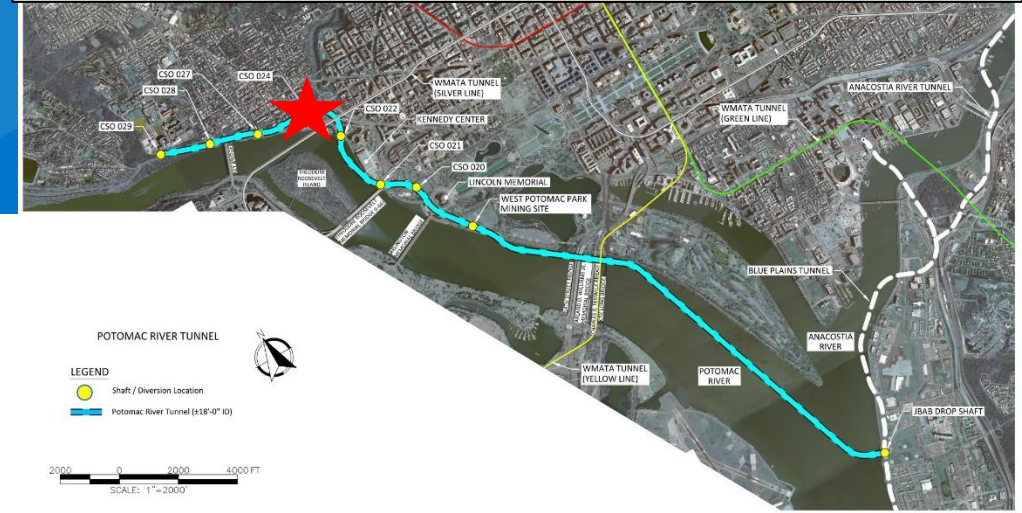
Looking Northwest

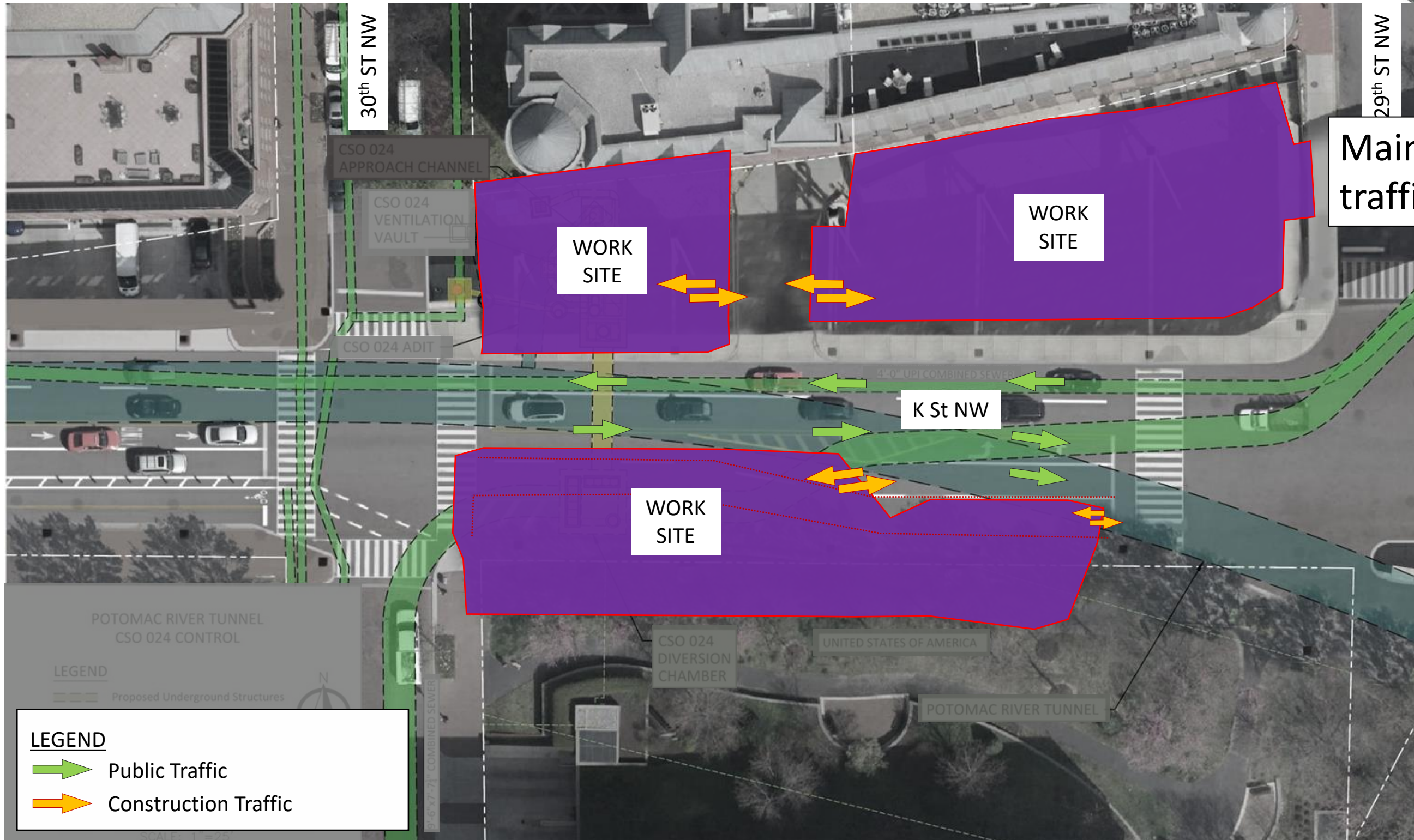
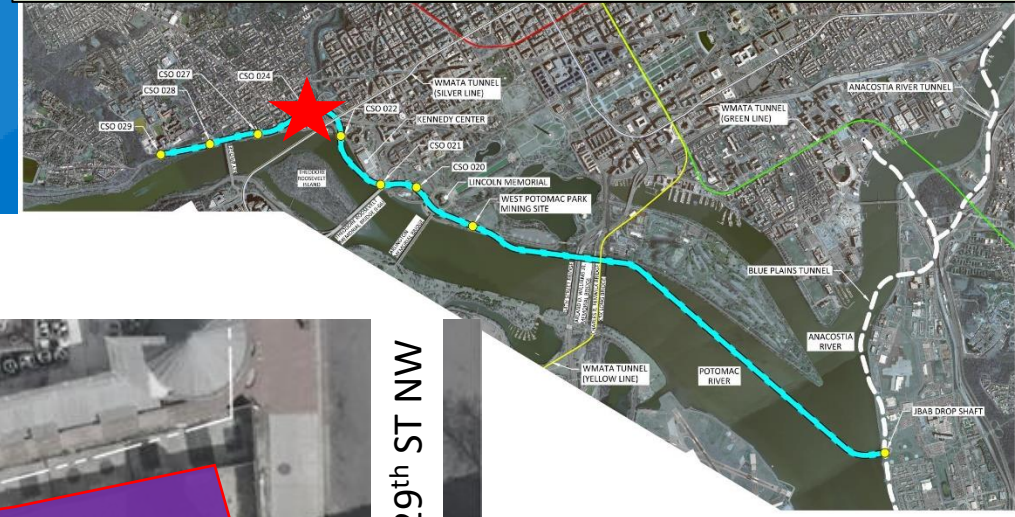


Looking Northwest

dc CSO 024 Site

Anticipated Construction:
2025 through 2027 (planned)

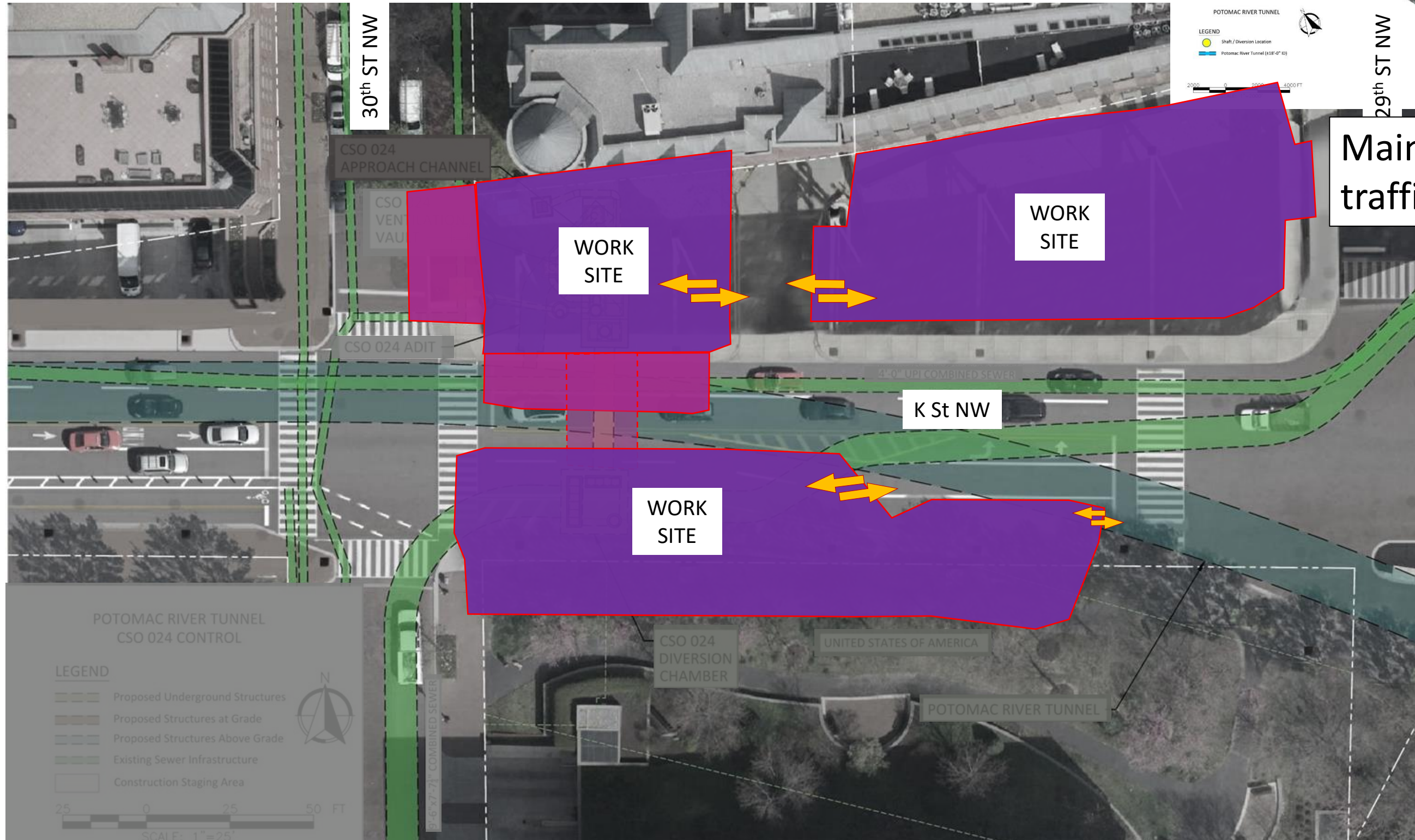
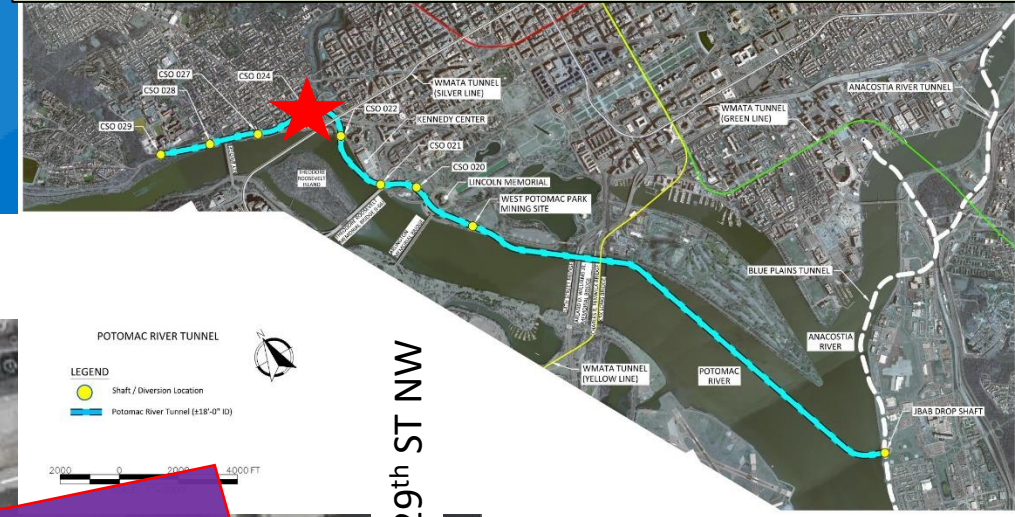




Maintenance of the traffic on K Street.

LEGEND

- Public Traffic
- Construction Traffic



Maintenance of the traffic on K Street.

POTOMAC RIVER TUNNEL
CSO 024 CONTROL

LEGEND

- Proposed Underground Structures
- Proposed Structures at Grade
- Proposed Structures Above Grade
- Existing Sewer Infrastructure
- Construction Staging Area

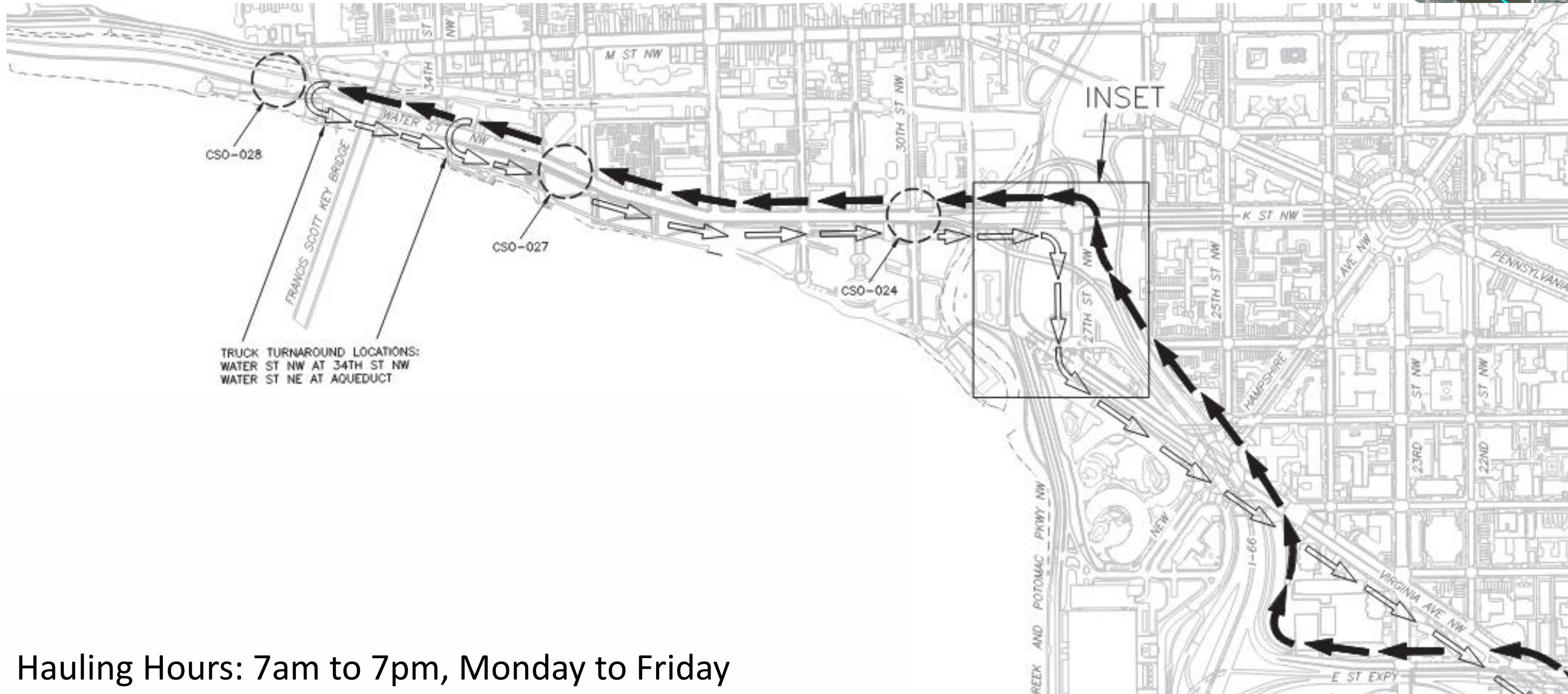
SCALE: 1" = 25'

Preliminary layout



CSO 024, 027 & 028 Hauling Routes

Anticipated Construction:
2025 through 2028 (planned)



Hauling Hours: 7am to 7pm, Monday to Friday
Working Hours: 7am to 7pm, Monday to Friday

dc Upcoming Investigations

- CSO 024, 027, 028 : Surveys (this year)
 - Surveys allow to record the current configuration of the sites (trees, elevations, existing structures...)



Conclusion & Questions



Contact Information for Public

- If you would like to be included in DC Water's email distribution list for updates on Potomac River Tunnel, please email dcpotomacrivertunnel@dcwater.com
- Future community meetings to be scheduled and advertised

Contact Information

Project Email: dcpotomacrivertunnel@dcwater.com

Project Website: www.dewater.com/prt

Dedicated Project Hotline: Coming Soon!

dc  Any Questions?

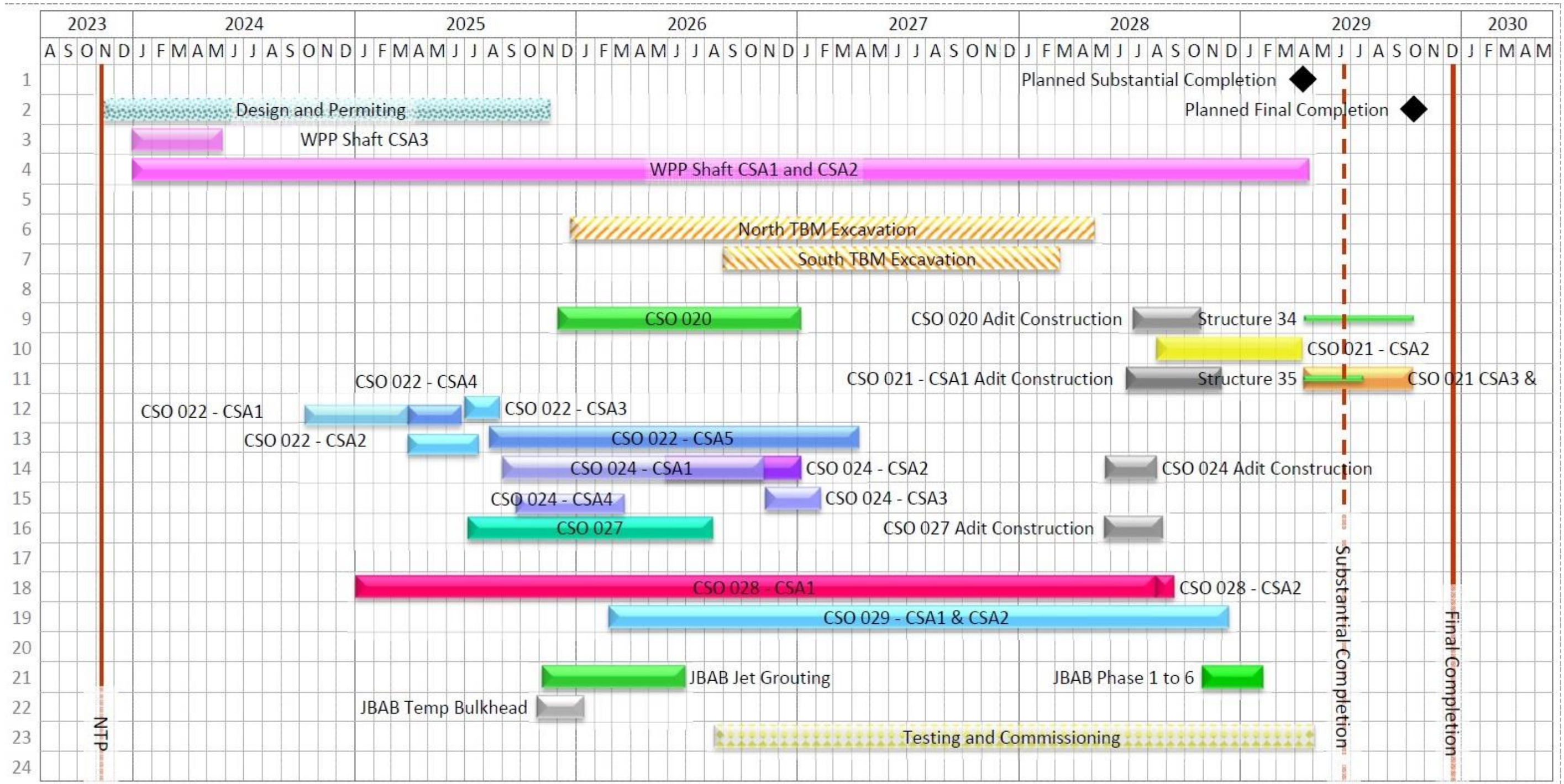
THANK YOU!

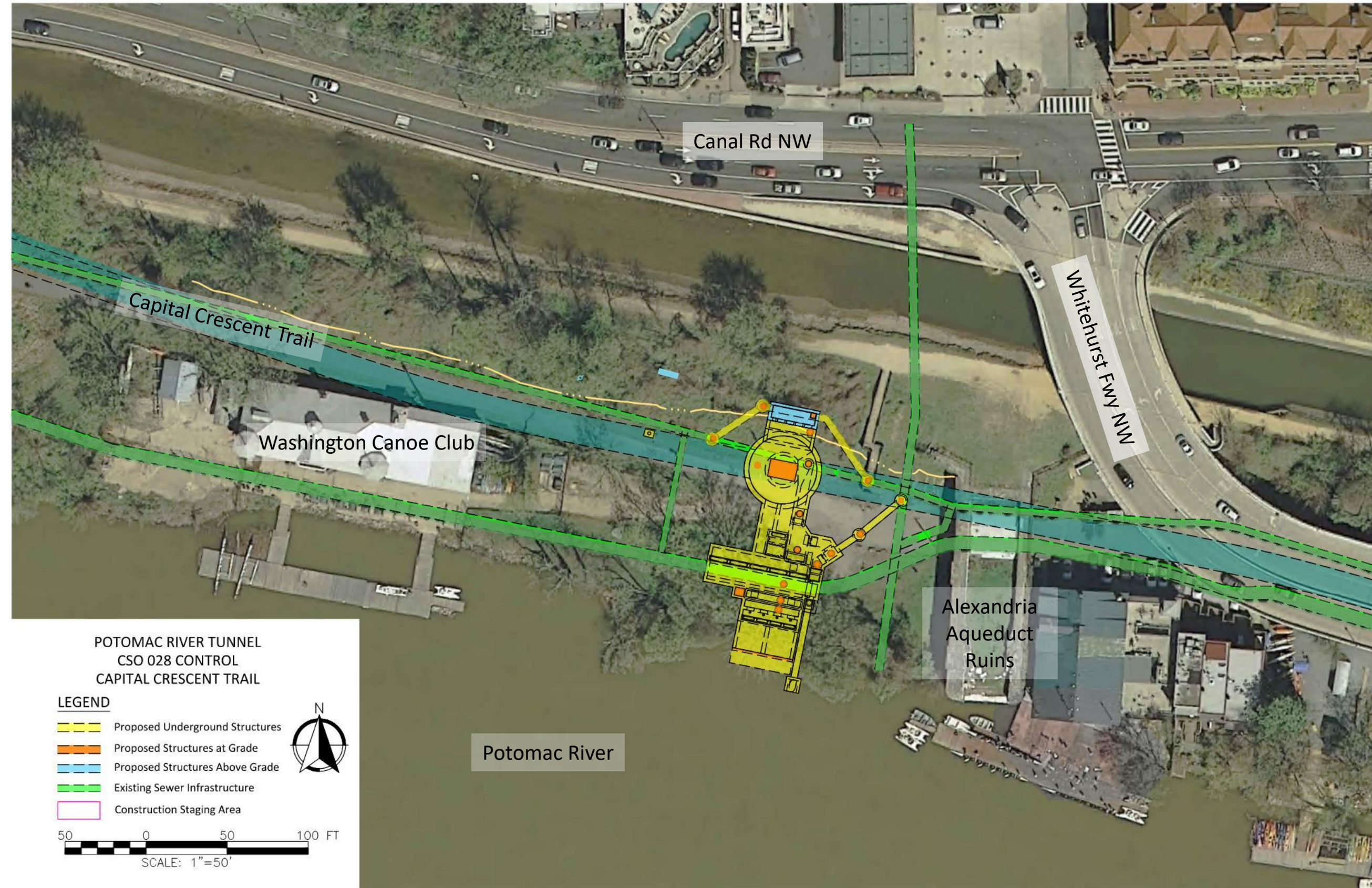
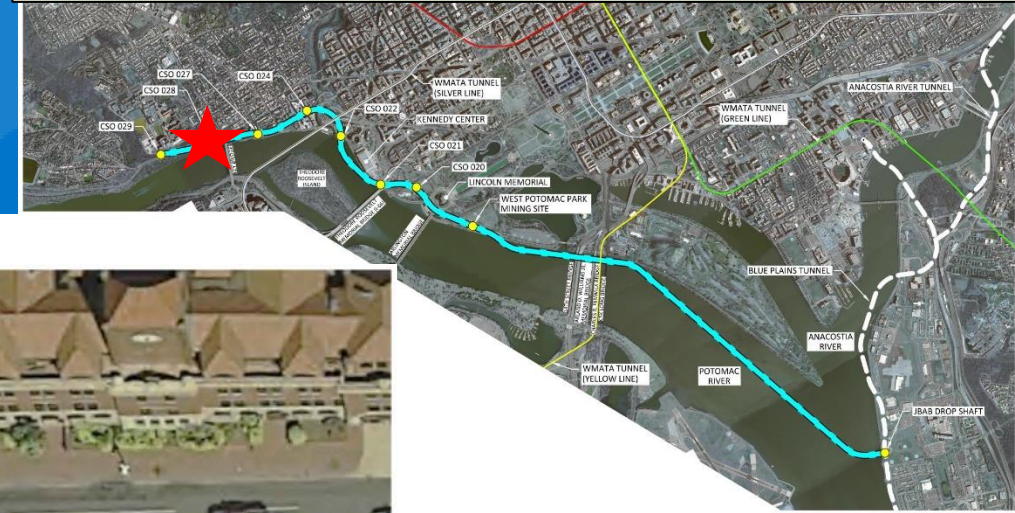


Extra Slides



Anticipated Overall Schedule (simplified)

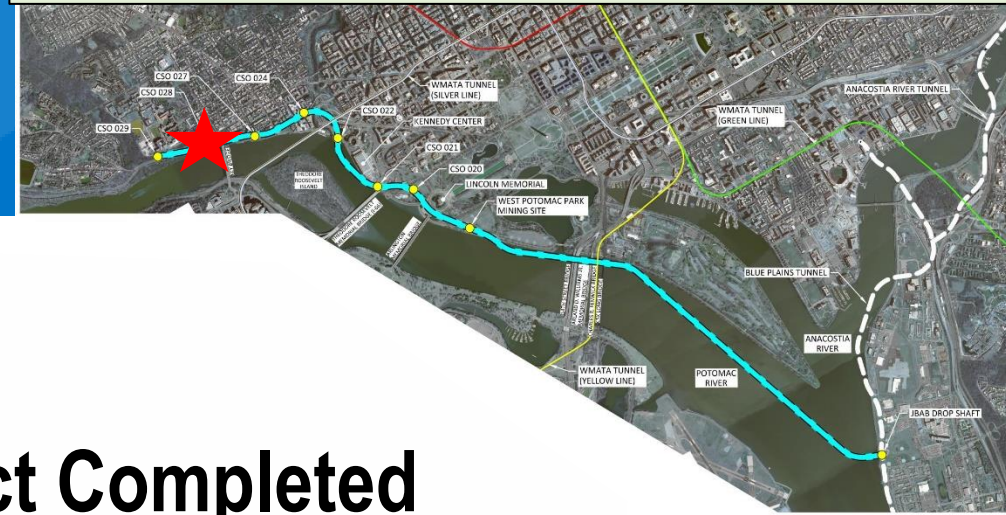






CSO 028 Site - Renderings

Anticipated Construction:
2025 through 2028 (planned)



Existing



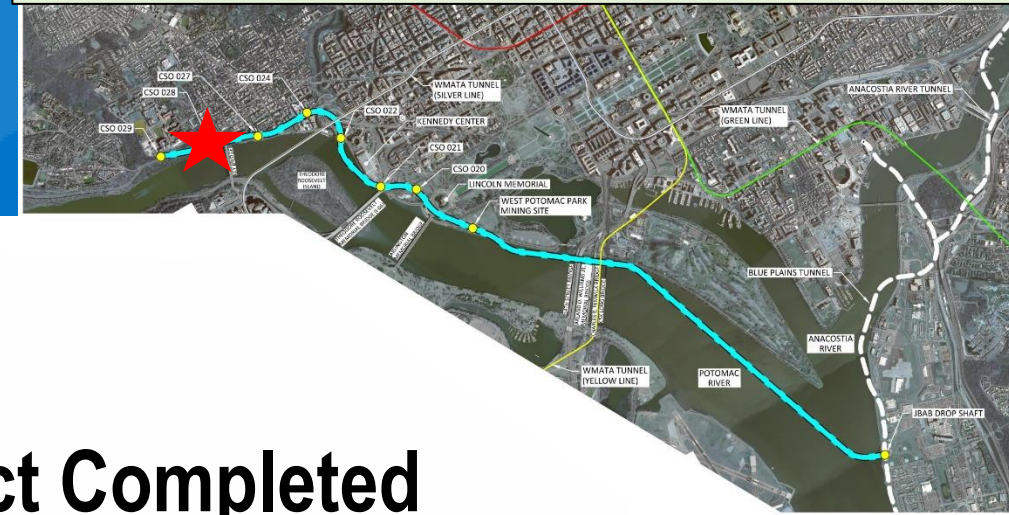
Project Completed





CSO 028 Site - Renderings

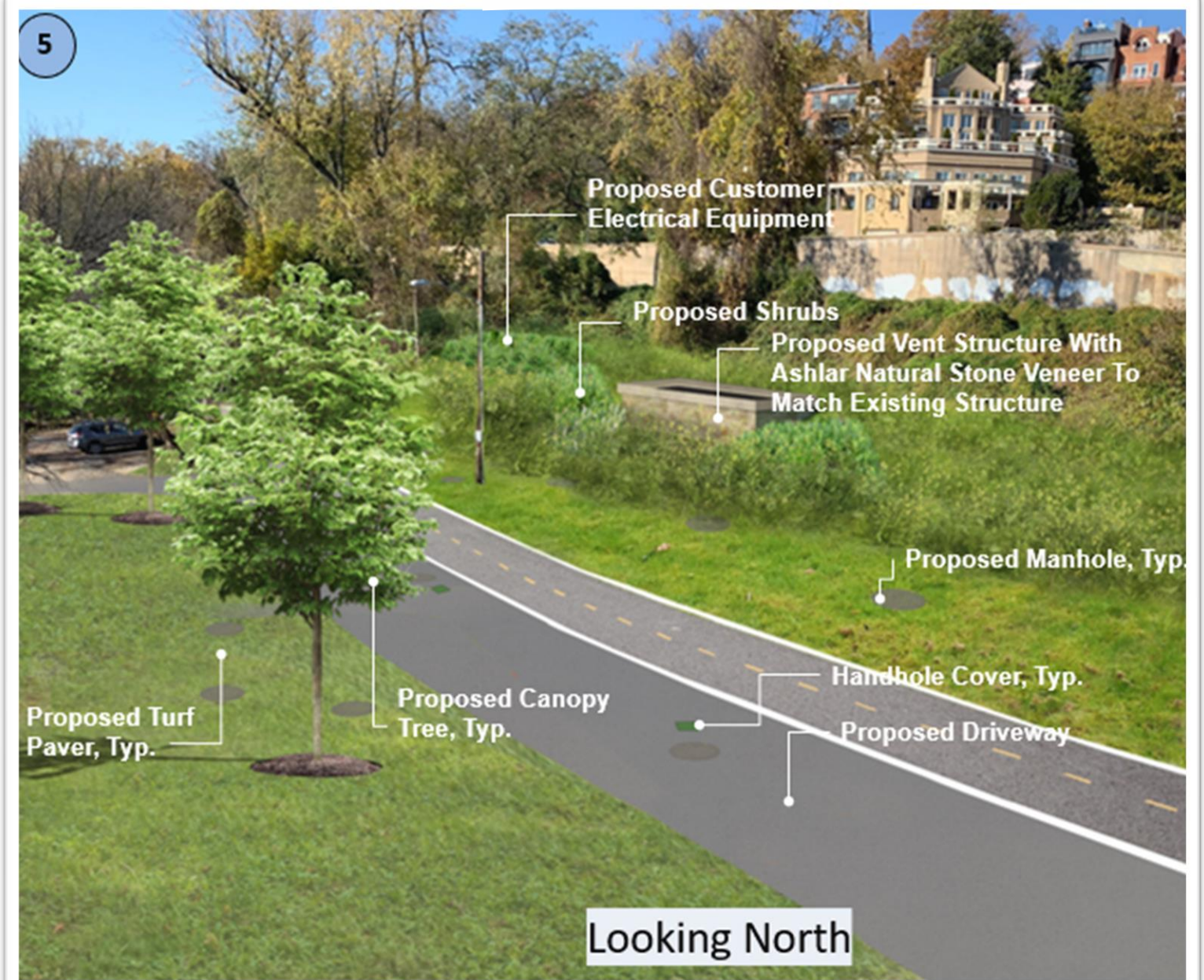
Anticipated Construction:
2025 through 2028 (planned)



Existing



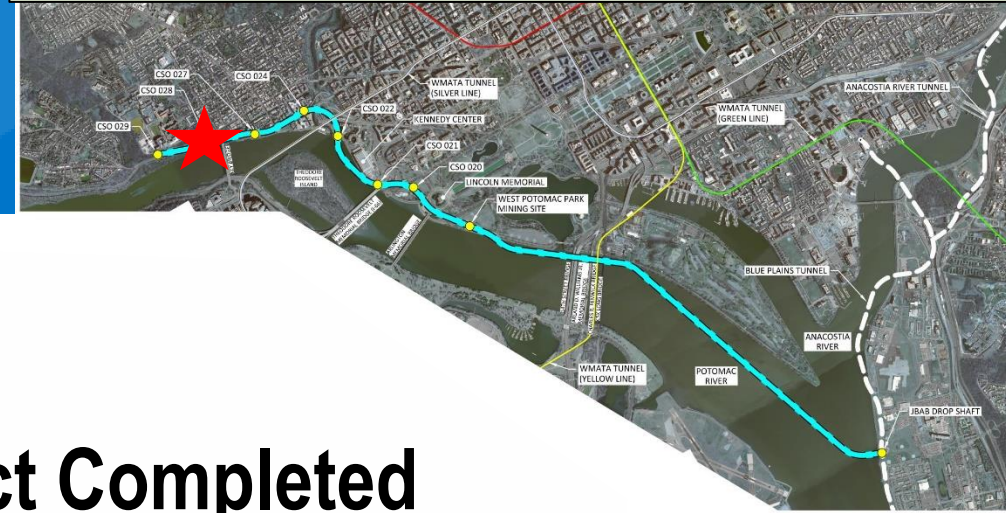
Project Completed





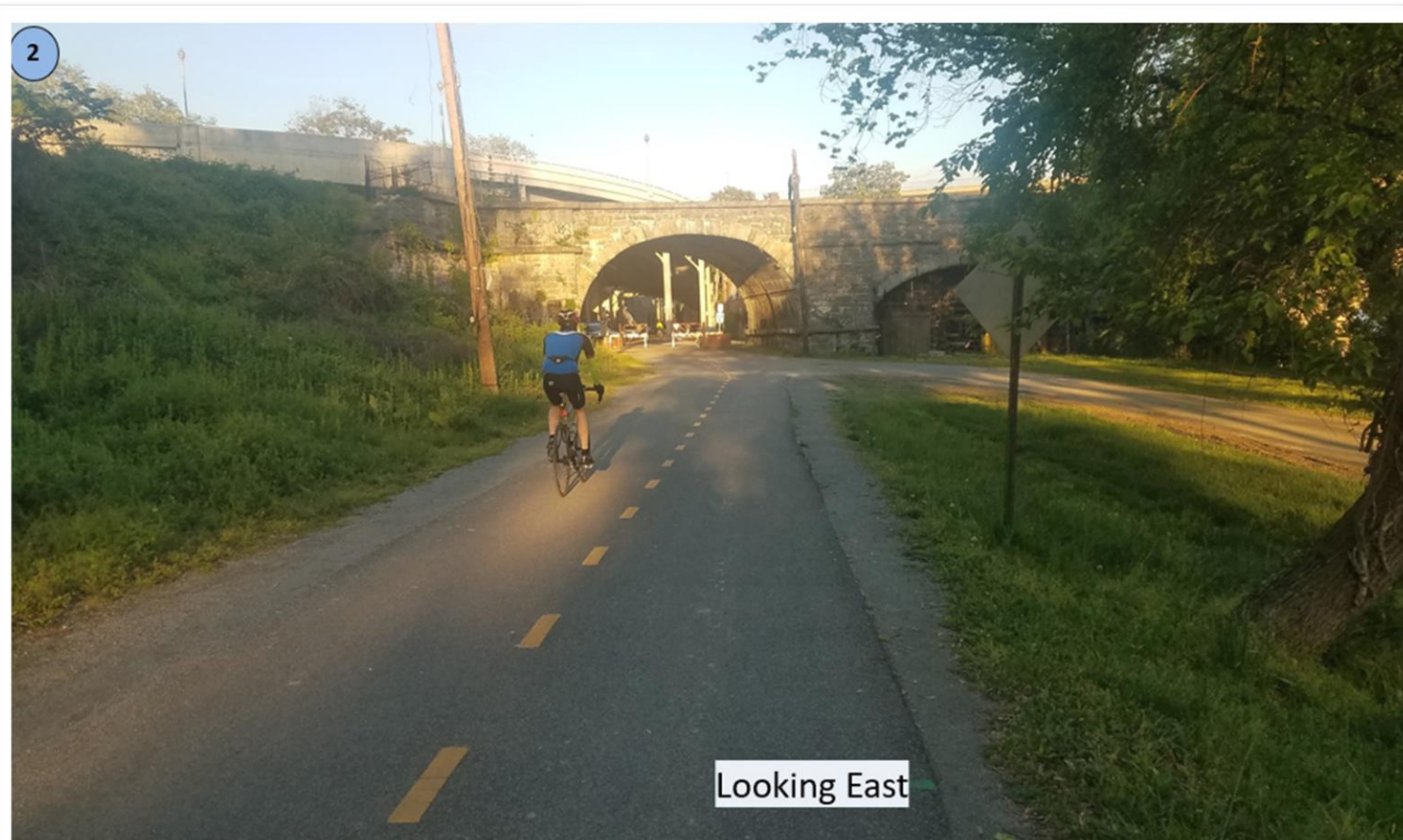
CSO 028 Site - Renderings

Anticipated Construction:
2025 through 2028 (planned)



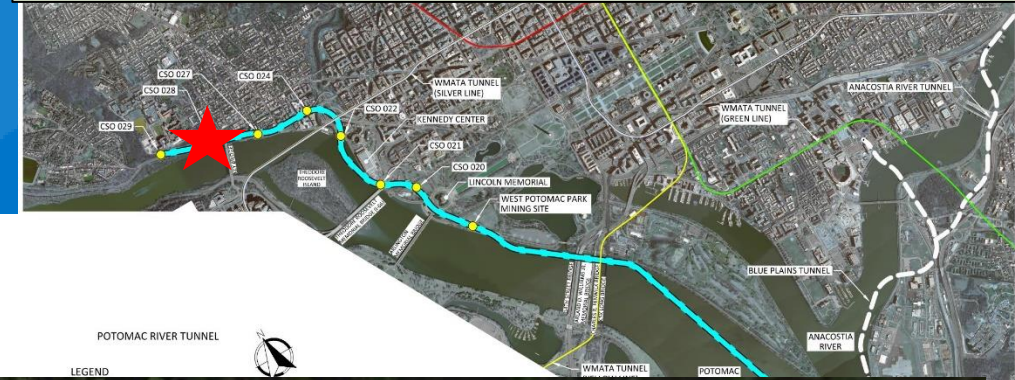
Existing

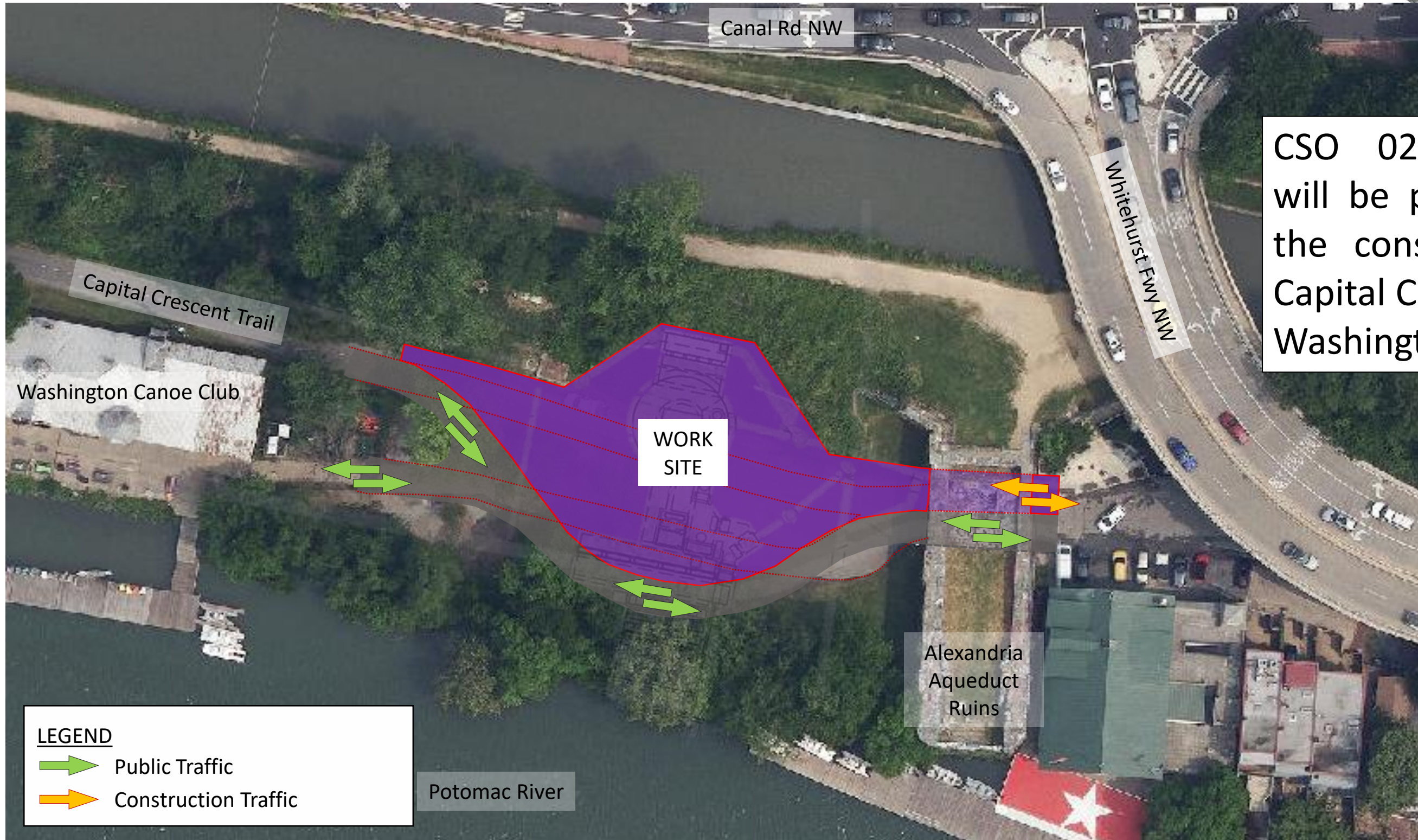
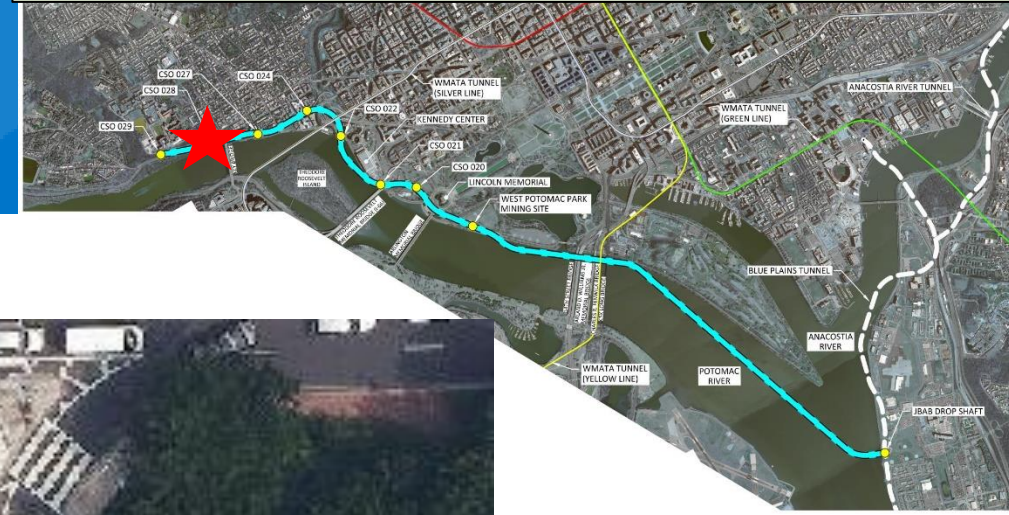
Project Completed



dc CSO 028 Site

Anticipated Construction:
2025 through 2028 (planned)





CSO 028 Construction will be phased to allow the constant access to Capital Crescent Trail and Washington Canoe Club

LEGEND



- Public Traffic
- Construction Traffic

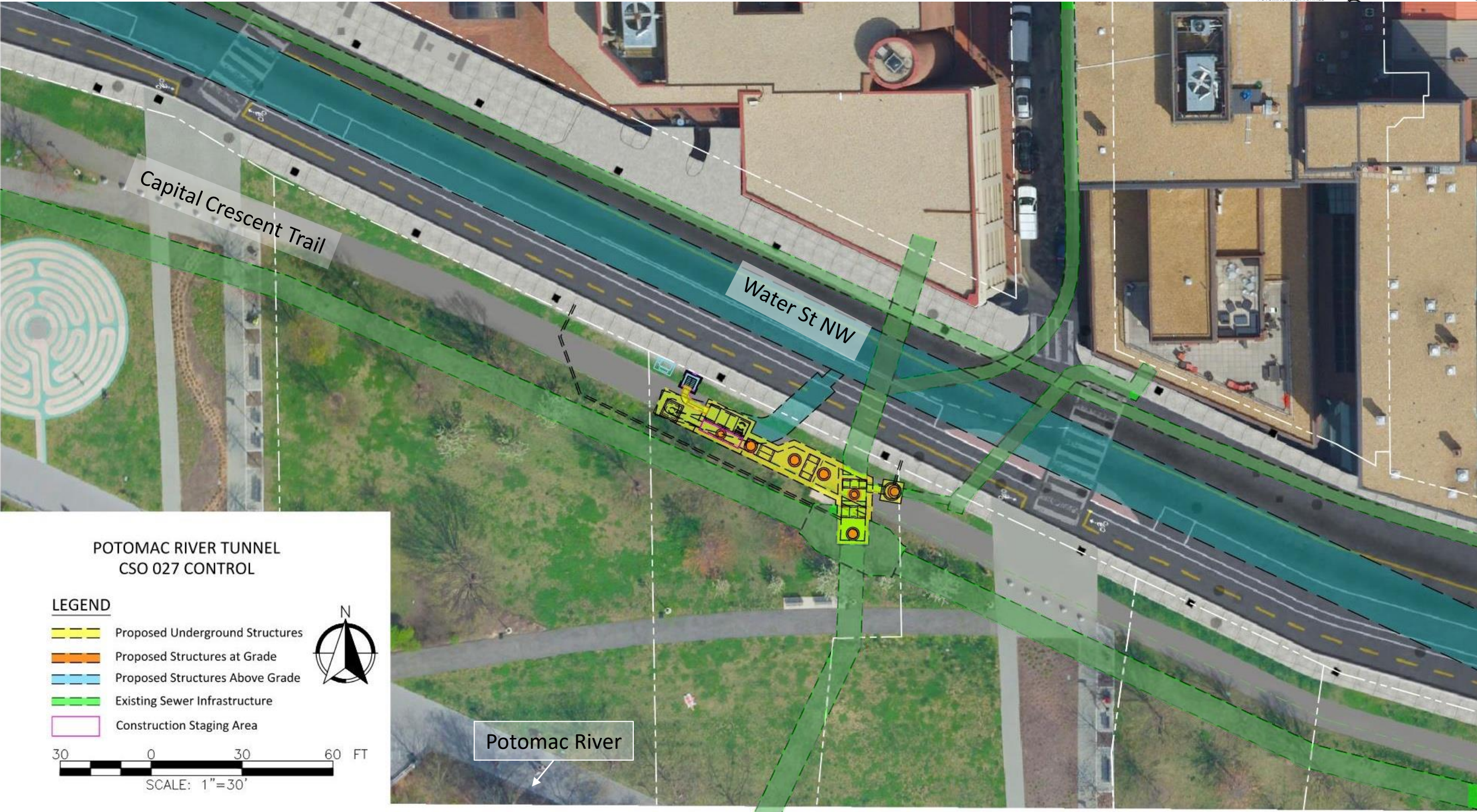
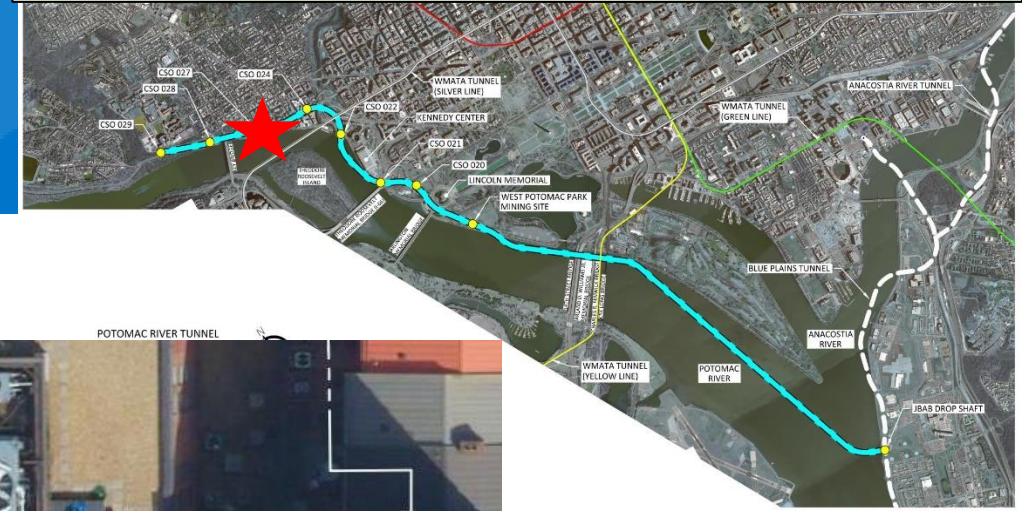




CSO 028 Construction will be phased to allow the constant access to Capital Crescent Trail and Washington Canoe Club

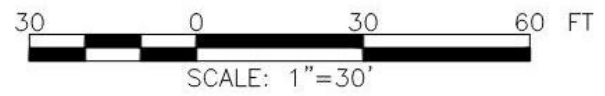
LEGEND

-  Public Traffic
-  Construction Traffic



POTOMAC RIVER TUNNEL
CSO 027 CONTROL

- LEGEND**
- Proposed Underground Structures
 - Proposed Structures at Grade
 - Proposed Structures Above Grade
 - Existing Sewer Infrastructure
 - Construction Staging Area





CSO 027 Site - Renderings

Anticipated Construction:
2025 through 2026 (planned)



Existing

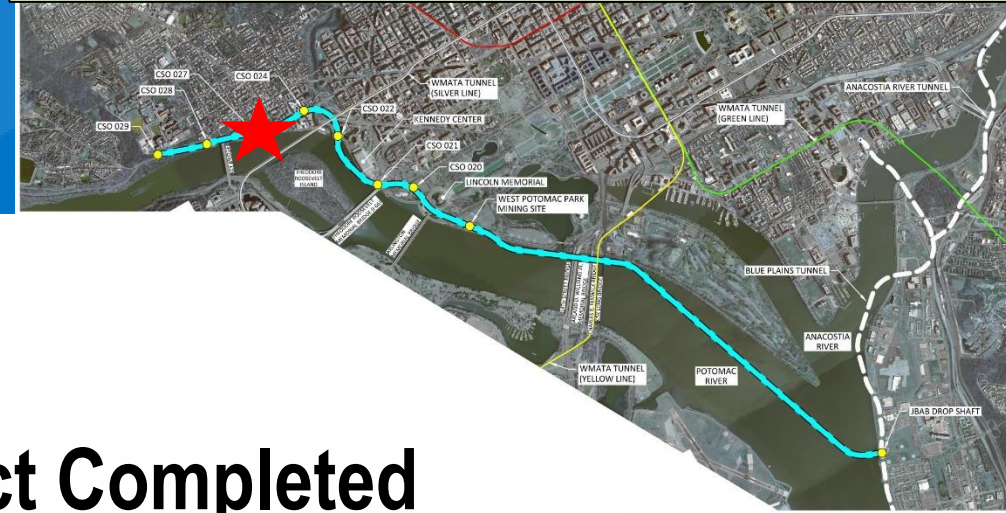
Project Completed





CSO 027 Site - Renderings

Anticipated Construction:
2025 through 2026 (planned)



Existing

Project Completed





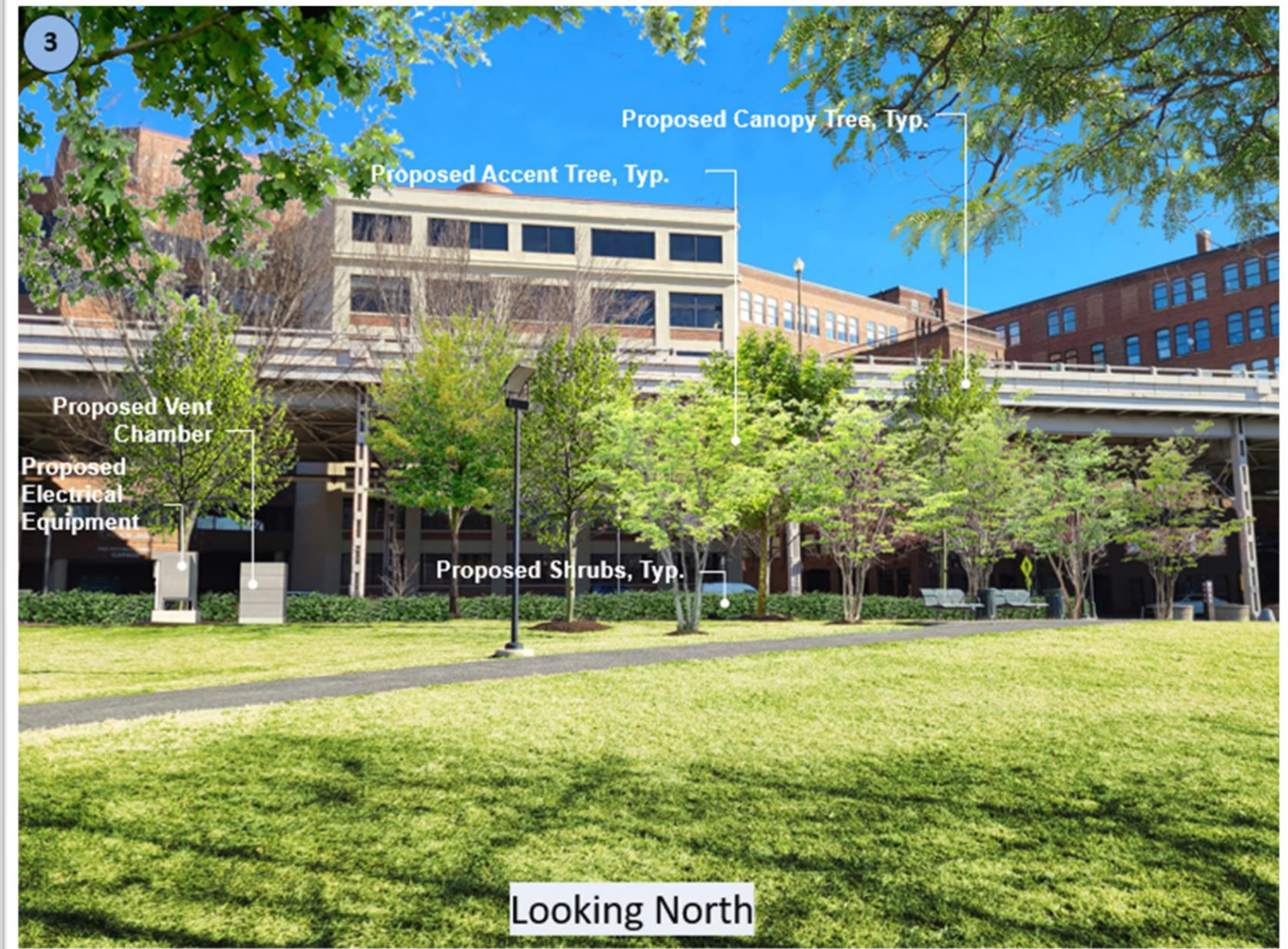
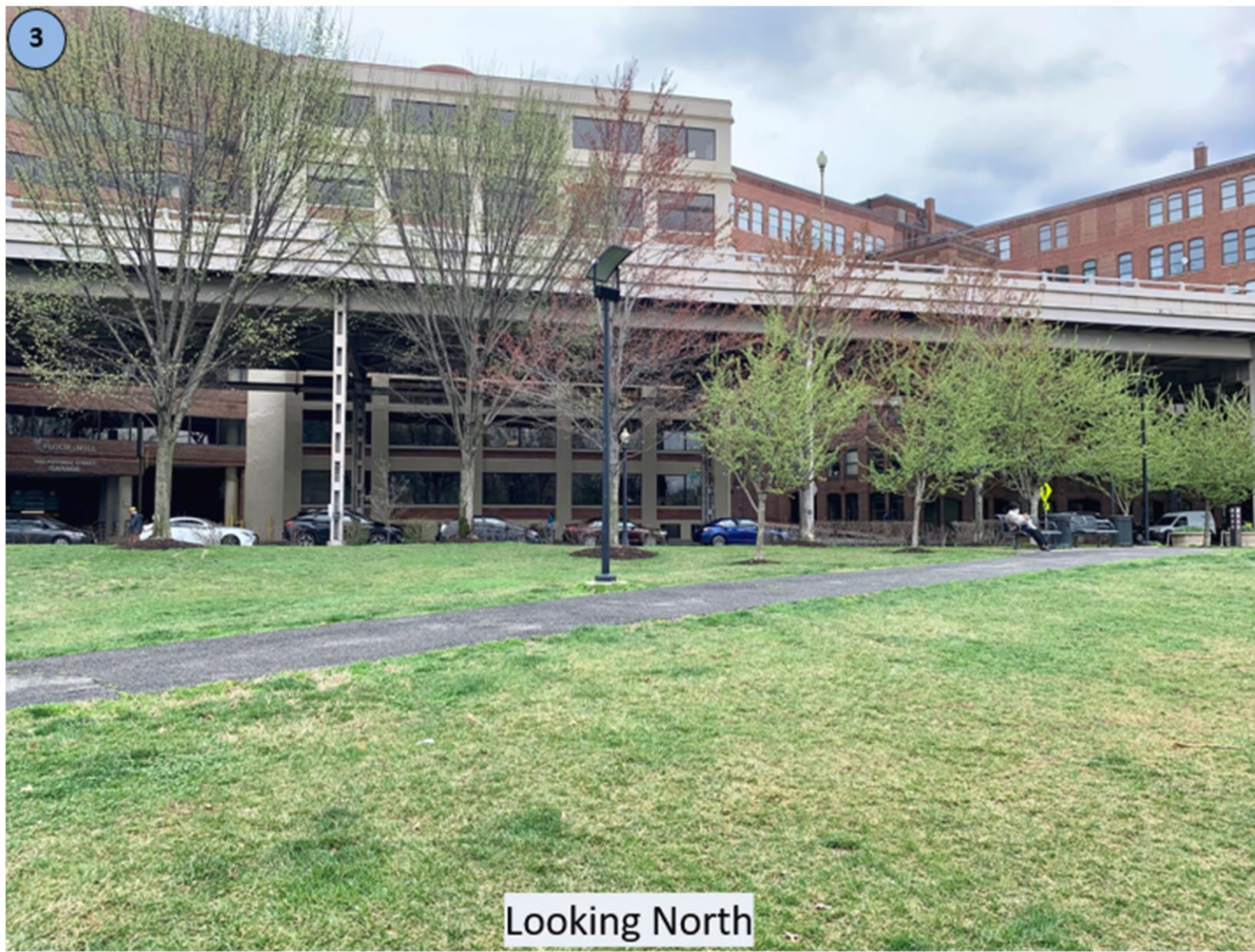
CSO 027 Site - Renderings

Anticipated Construction:
2025 through 2026 (planned)



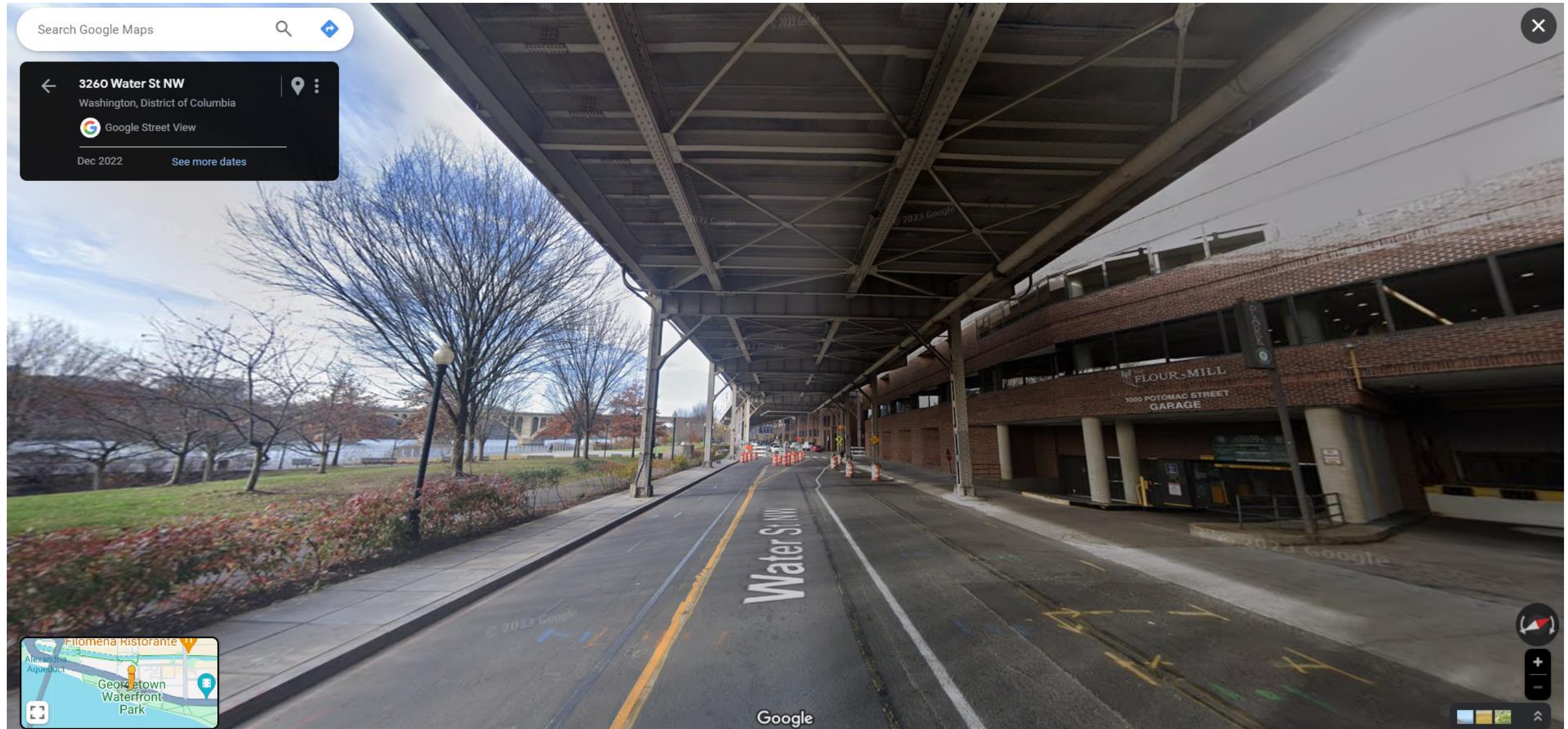
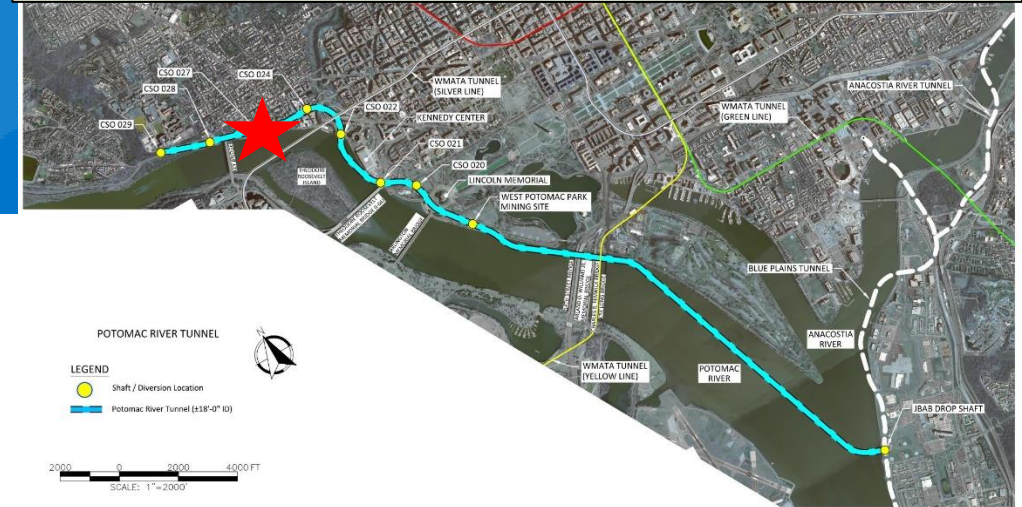
Existing

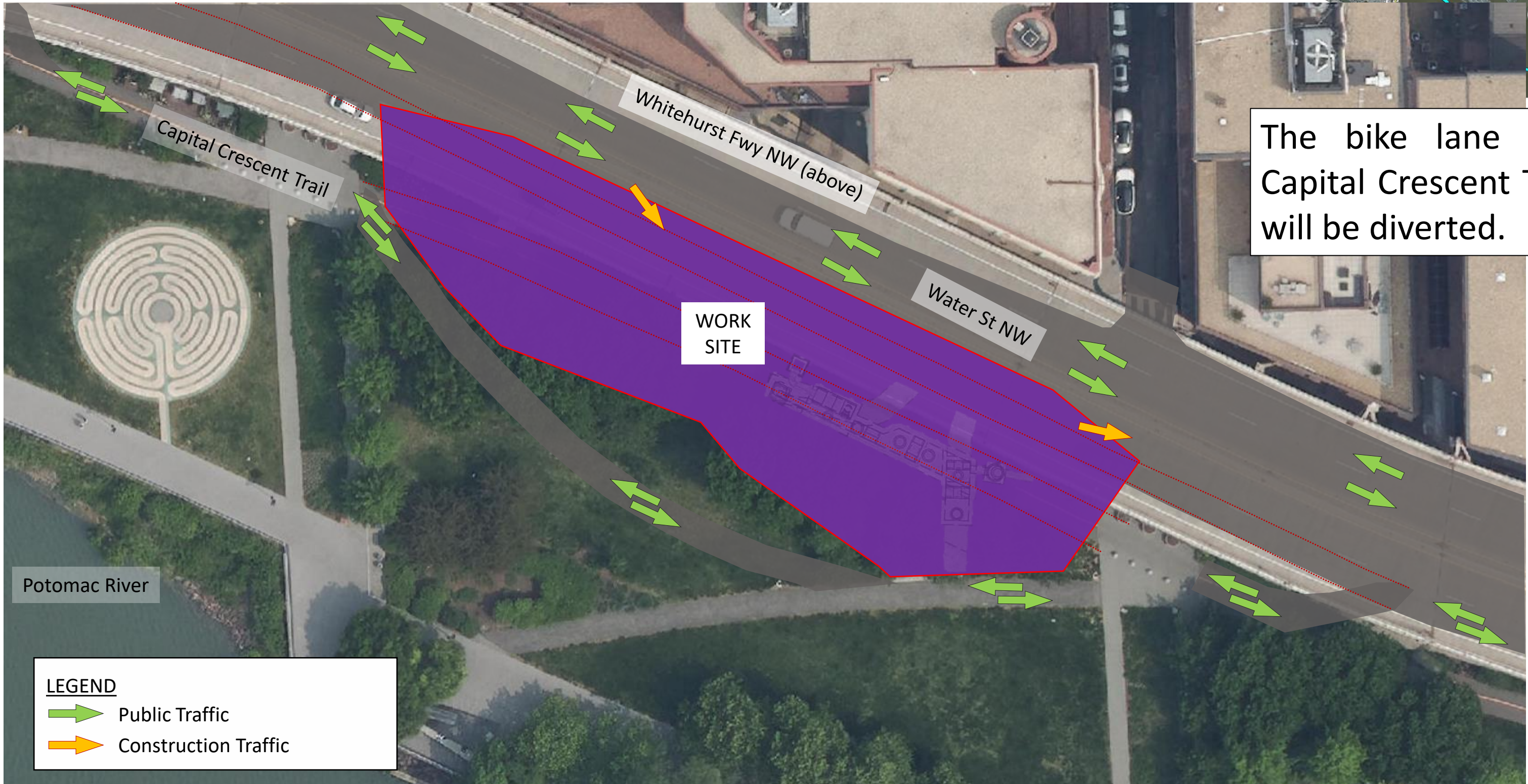
Project Completed



dc CSO 027 Site

Anticipated Construction: 2025 through 2026 (planned)

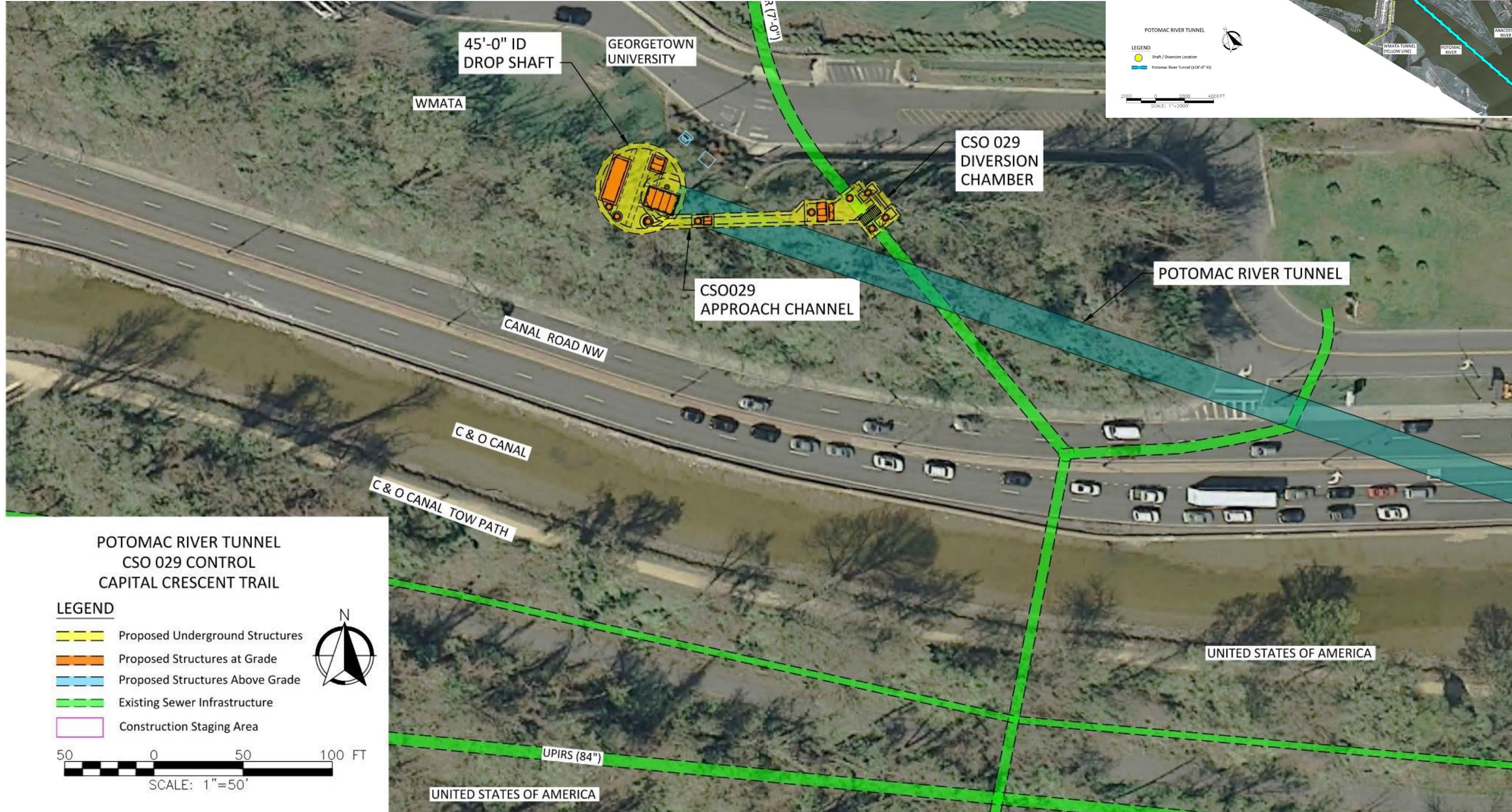
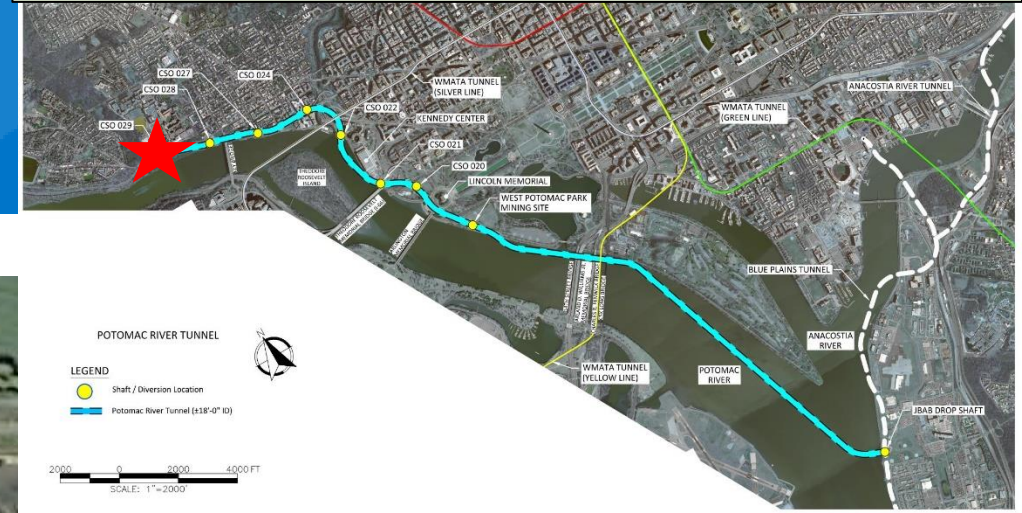




The bike lane and Capital Crescent Trail will be diverted.

LEGEND

- Public Traffic
- Construction Traffic



POTOMAC RIVER TUNNEL
CSO 029 CONTROL
CAPITAL CRESCENT TRAIL

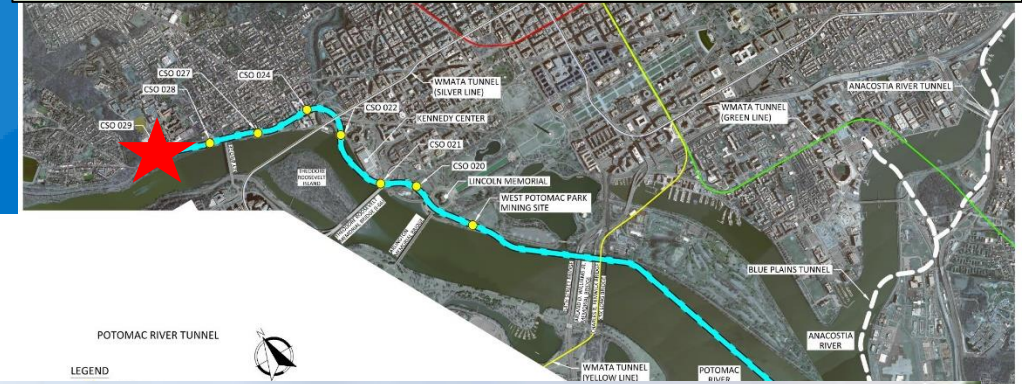
LEGEND

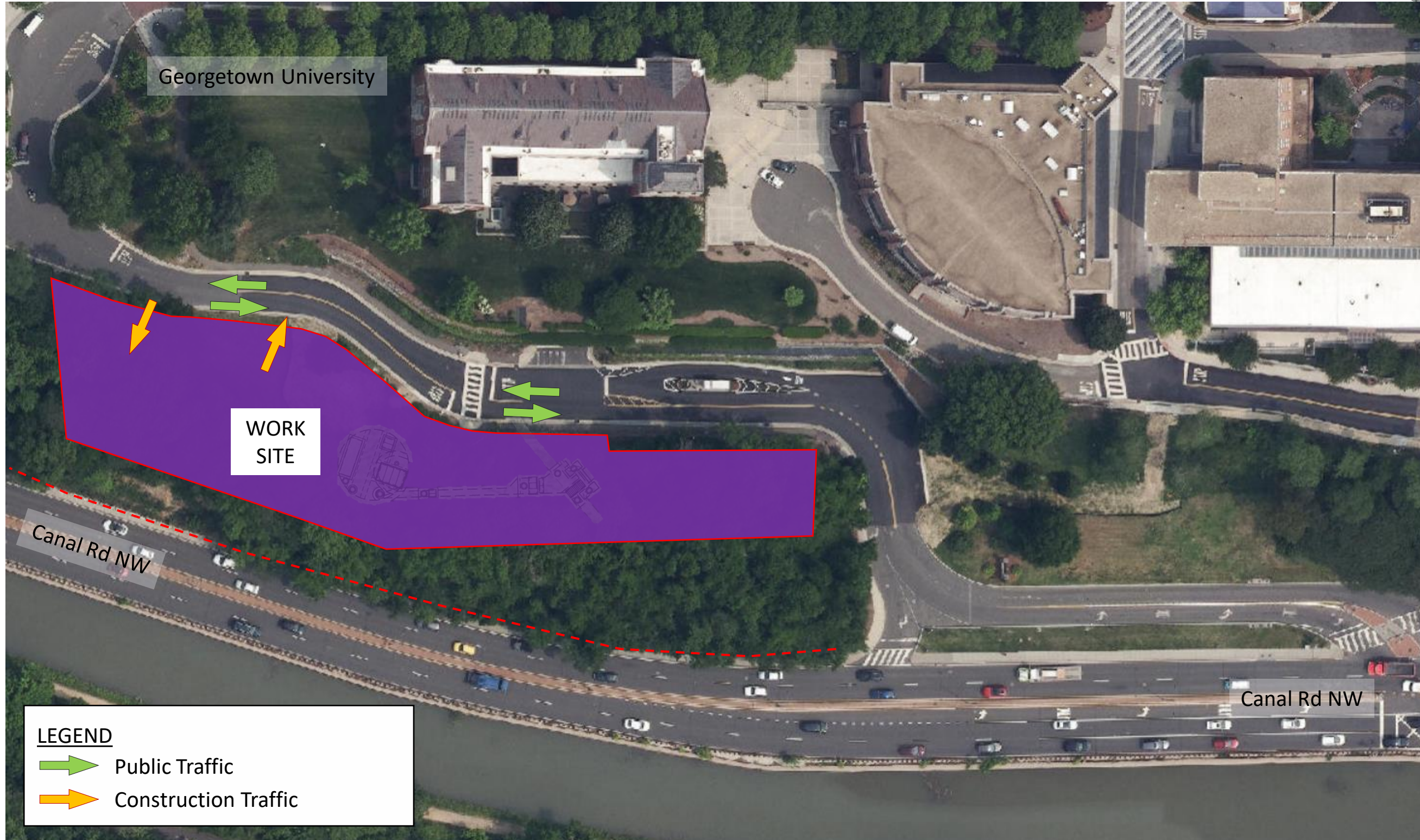
- Proposed Underground Structures
- Proposed Structures at Grade
- Proposed Structures Above Grade
- Existing Sewer Infrastructure
- Construction Staging Area

SCALE: 1"=50'

dc CSO 029 Site

Anticipated Construction:
2026 through 2028 (planned)



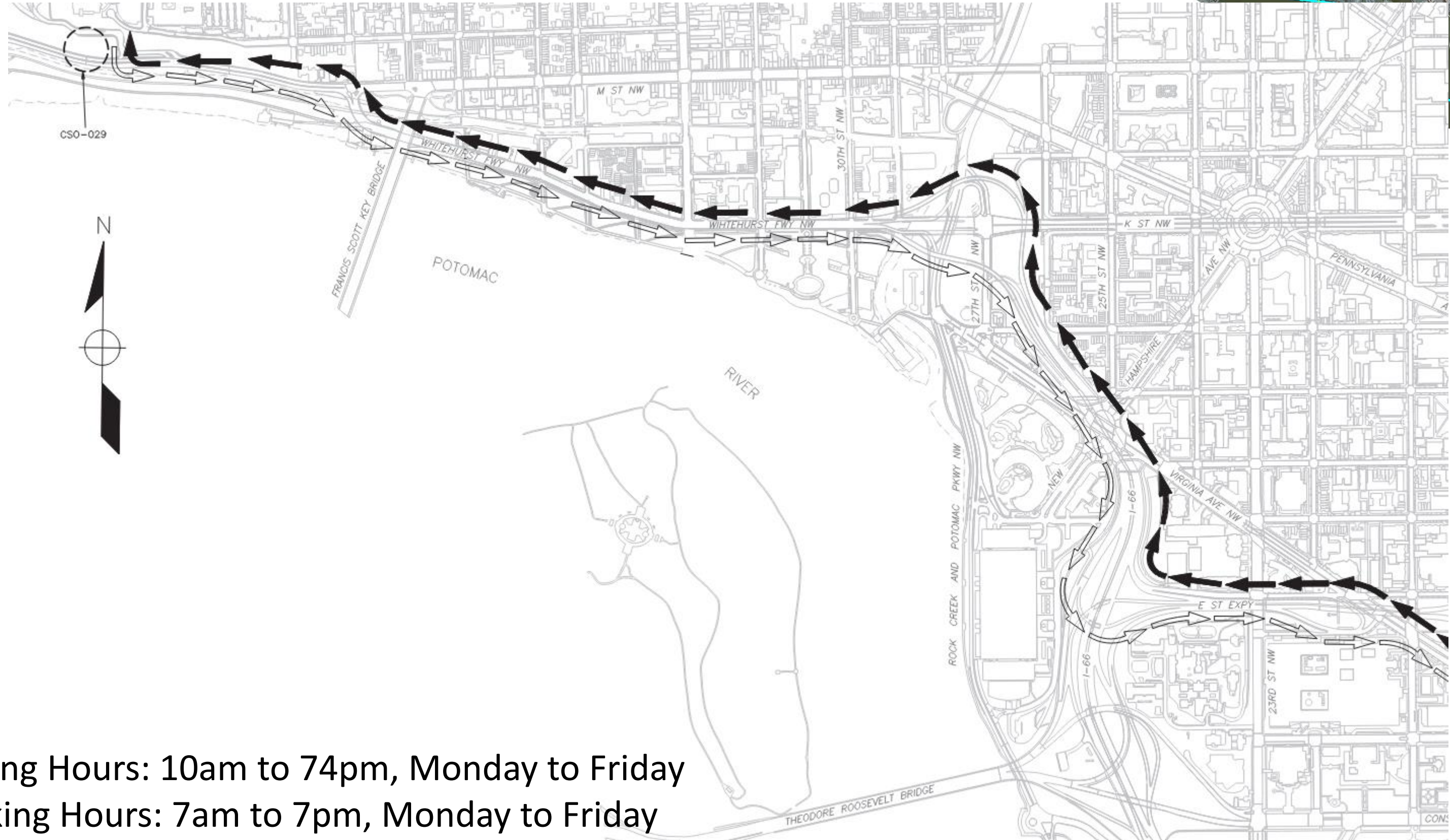


Preliminary layout

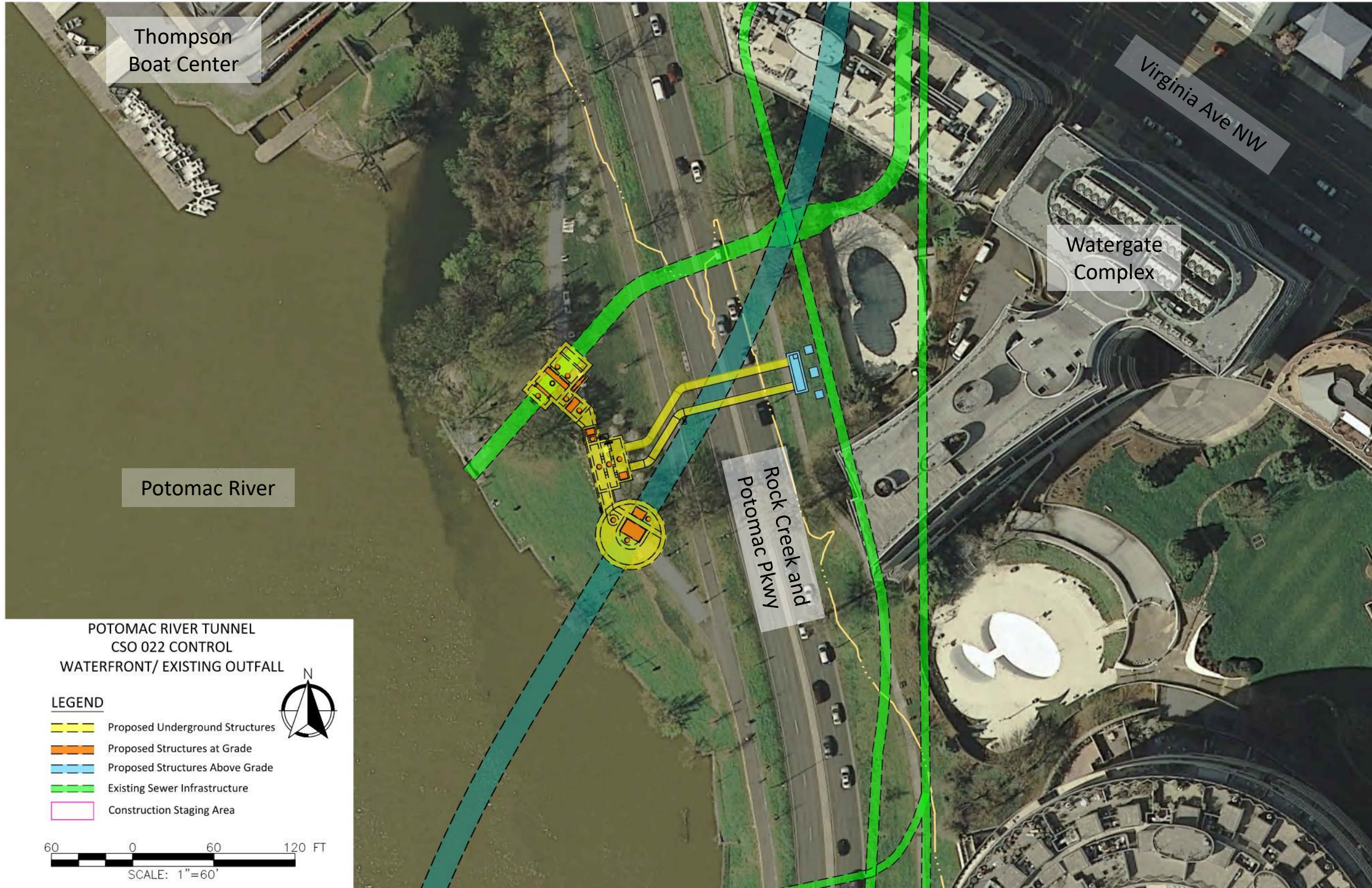


CSO 029 Site – Hauling Route

Anticipated Construction:
2026 through 2028 (planned)



Hauling Hours: 10am to 7pm, Monday to Friday
Working Hours: 7am to 7pm, Monday to Friday



POTOMAC RIVER TUNNEL
CSO 022 CONTROL
WATERFRONT/ EXISTING OUTFALL

LEGEND

- █ Proposed Underground Structures
- █ Proposed Structures at Grade
- █ Proposed Structures Above Grade
- █ Existing Sewer Infrastructure
- Construction Staging Area

60 0 60 120 FT
SCALE: 1"=60'

- CSO 028: Utility Investigation / Potholing along Water St NW

- Potholing is a method for investigating the location of underground utilities. The road will be restored when the investigation work is completed. Potholing is necessary to prepare the site for the construction of the Potomac River Tunnel (Spring/Summer 2024)

