

Draft Environmental Impact Statement, Draft Section 4(f) Evaluation, and Draft Section 106 Programmatic Agreement Public Hearing

Tuesday, October 22, 2019

Open House Format: 4:00 p.m. to 7:00 p.m.

Formal Presentations: 4:30 p.m. and 6:00 p.m.

(Same presentation at both times)







Project Overview







What is the Project?

- The Federal Railroad Administration (FRA) and the District Department of Transportation (DDOT) are preparing an Environmental Impact Statement (EIS) in accordance with the National Environmental Policy Act (NEPA).
- The Long Bridge Project consists of potential improvements to the Long Bridge and related railroad infrastructure located between the Rosslyn (RO) Interlocking near Long Bridge Park in Arlington, Virginia and the L'Enfant (LE) Interlocking near 10th Street SW in the District of Columbia.
- The two-track Long Bridge was built in 1904 and is owned and maintained by CSX Transportation (CSXT).
- Virginia Railway Express (VRE) and Amtrak also currently use Long Bridge.
- Long Bridge is a contributing element to the East and West Potomac Parks Historic District.

Project Overview



What is NEPA?

- The National Environmental Policy Act of 1969 (NEPA) requires Federal agencies to assess the environmental effects of their proposed actions prior to making decisions.
- NEPA encourages integrated compliance with other environmental laws so that a proposed project's impacts are comprehensively evaluated before implementation.
- To comply with NEPA, FRA and DDOT are preparing an EIS that will be made available for public review and comment.

What is Section 106?

Section 106 of the National Historic Preservation Act (NHPA) requires Federal agencies to:

- Consider and determine the direct AND indirect effects of a proposed undertaking on historic properties.
- Consult with State Historic Preservation Offices,
 Tribes, and other consulting parties.
- Avoid, resolve, or mitigate adverse effects to historic properties.
- See: 36 CFR Part 800 (Protection of Historic Properties).

N E P A

- Clean Air Act
- Clean Water Act
- Environmental Justice Executive Order
- Noise Ordinances
- U.S. Department of Transportation Act of 1966; Section 4(f)
- Section 106 of the National Historic Preservation Act
- Contaminated Materials and Substances
- Endangered Species Act
- Coastal Zone Management Act

- Migratory Bird Treaty Act
- Protection of Wetlands Executive Order
- Floodplain Management Executive Order
- Federal Flood Risk Management Executive Order
- Military Construction and Appropriations Act
- State Environmental Laws
- Local Environmental Laws

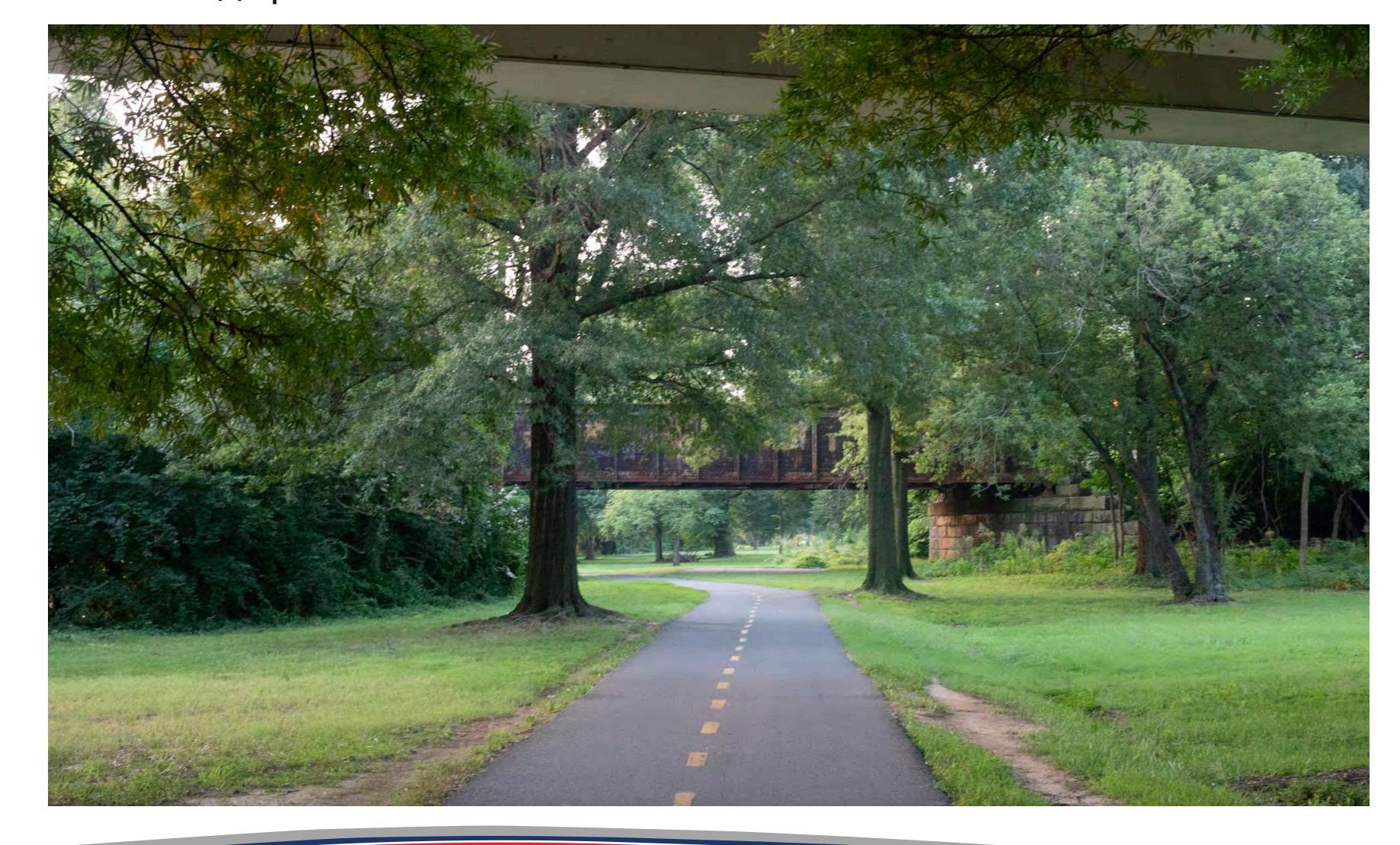
Project Overview

BRIDGE PROJECT

What is Section 4(f)?

Section 4(f) of the U.S. Department of Transportation (USDOT) Act of 1966 prohibits projects funded or approved by a USDOT agency from using publicly owned park and recreational areas, wildlife and waterfowl refuges, or historic sites and structures unless...

- There is no feasible or prudent avoidance alternative, and
- The project includes all possible planing to minimize harm to the property resulting from use.
- Or, the Project would have a *de minimis* impact on Section 4(f)-protected resources.



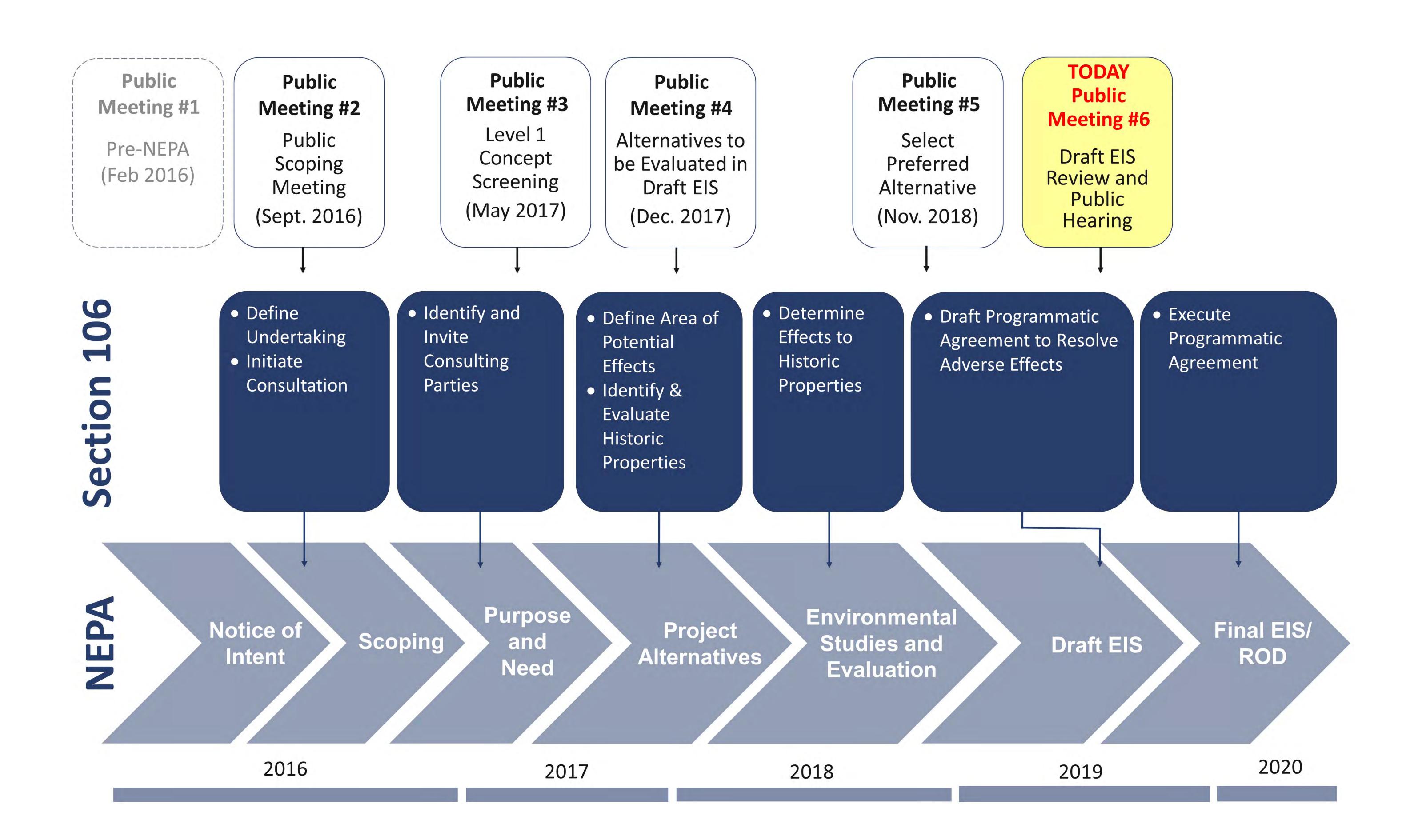


*Section 4(f)-protected historic properties are illustrated on the Section 106 Summary of Adverse Effects board

There are several Section 4(f)-protected historic sites and parks within the Long Bridge Project Study Area

Section 106 and NEPA Coordination





Project Area





The Project:

- Connects logical termini;
- Has independent utility even if no additional transportation improvements in the area are made; and
- Does not restrict consideration of alternatives for other reasonably foreseeable transportation improvements in the area.



Project limits extend from RO Interlocking near Long Bridge Park in Arlington, Virginia to LE Interlocking near 10th Street SW in the District

Purpose and Need



The purpose of the Proposed Action is to provide additional long-term railroad capacity to improve the reliability of railroad service through the Long Bridge corridor.

Currently, there is **insufficient capacity**, **resiliency**, **and redundancy** to accommodate the projected demand in future railroad services. The Proposed Action is needed to address these issues and to ensure the Long Bridge corridor continues to serve as a **critical link connecting** the local, regional, and national transportation network.

Train Operator	Current # of Trains per Day	2040 # of Trains per Day	Percent Increase
VRE	34	92	171%
MARC	0	8	
Amtrak	24	44	83%
CSXT	18	42	133%
Norfolk Southern	0	6	
Total	76	192	

On Time Performance			
	Current (Observed)	No Action (2040)	
Commuter	91%	25%	
Intercity Long Distance	70%	12%	
Intercity Regional	7 0 70	7%	



No Action Alternative





The No Action Alternative for the Long Bridge Project EIS consists of the existing transportation network, plus all projects within the Project Area that are predictable by the planning year of 2040

The No Action Alternative does not include the Long Bridge Project

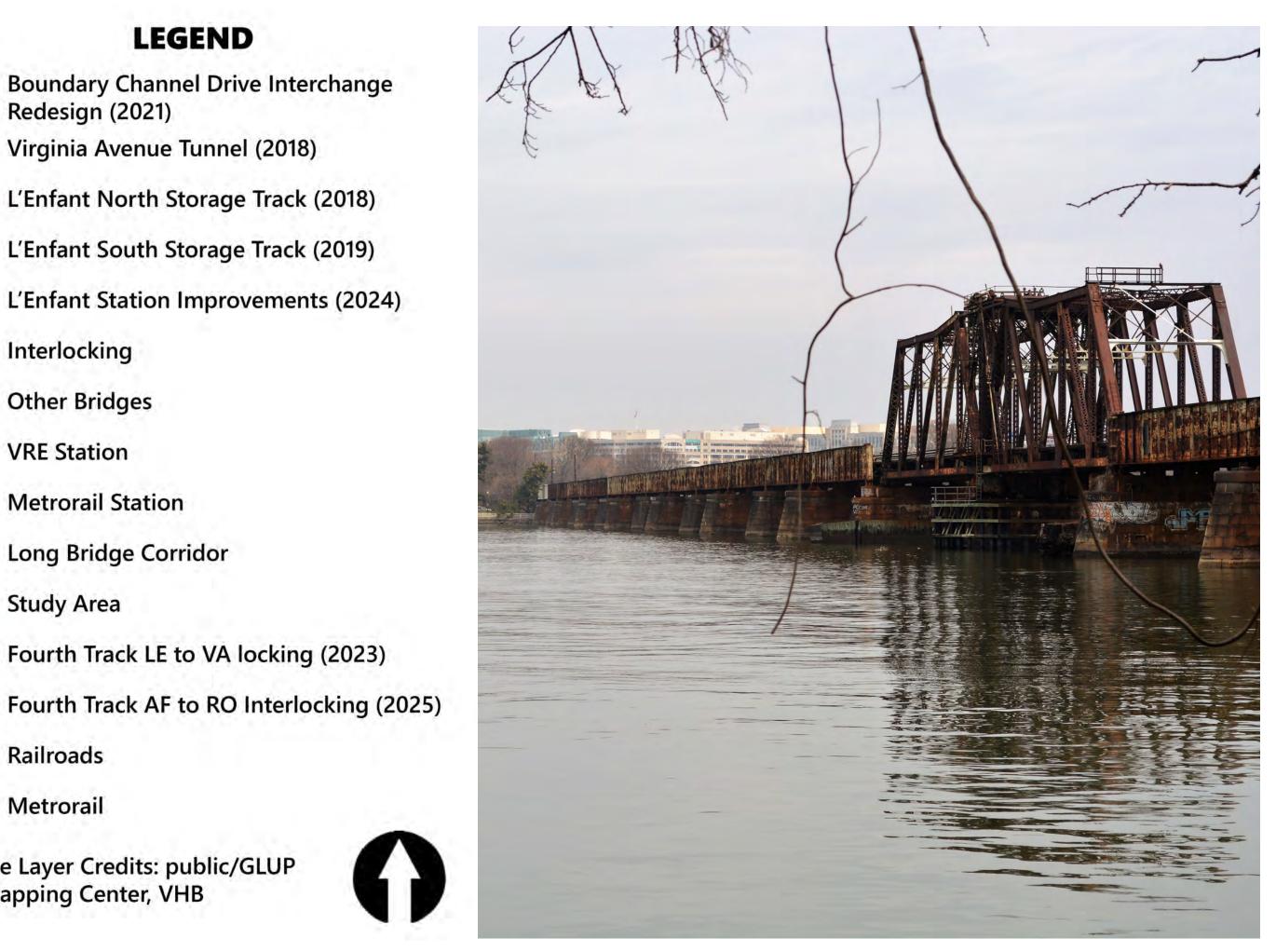
Boundary Channel Drive Interchange Redesign (2021) Virginia Avenue Tunnel (2018) L'Enfant North Storage Track (2018) L'Enfant South Storage Track (2019) L'Enfant Station Improvements (2024) Interlocking Other Bridges **VRE Station Metrorail Station Long Bridge Corridor** Study Area Fourth Track LE to VA locking (2023)

Railroads

Metrorail

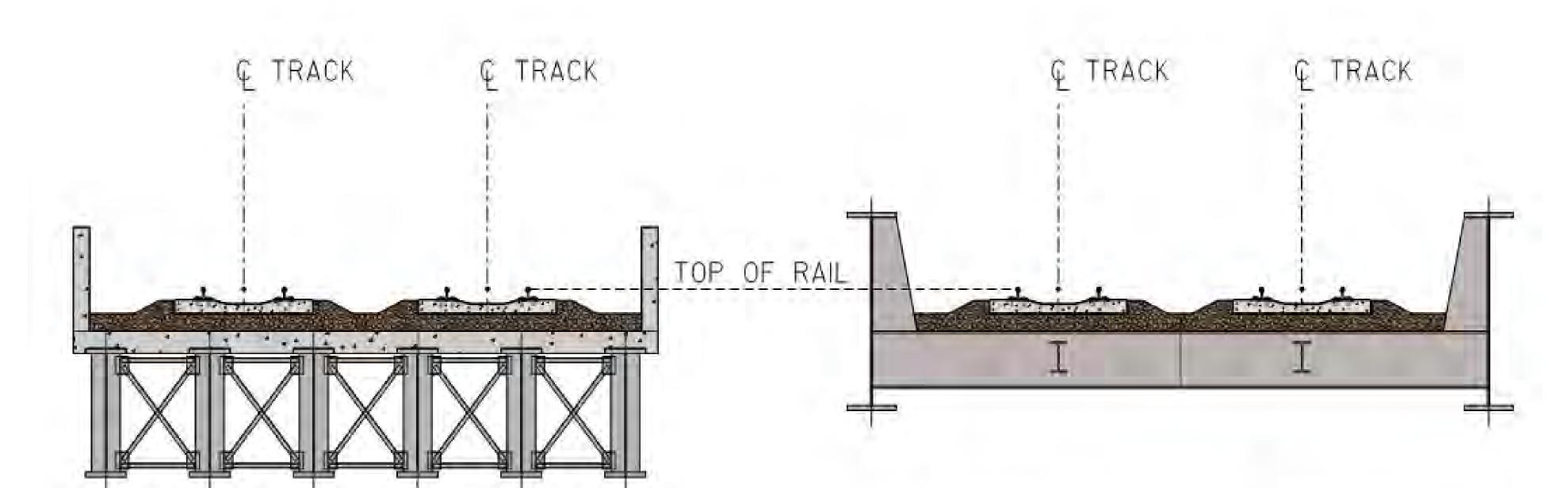
GIS Mapping Center, VHB

Service Layer Credits: public/GLUP



New Railroad Bridge Type Options





> Consists of multiple steel
I-shaped girders with a steel or
bridge deck at the top of the
girders

STEEL DECK GIRDER

> Bridge type generally preferred when clearance below the structure is not an issue

STEEL THROUGH GIRDER

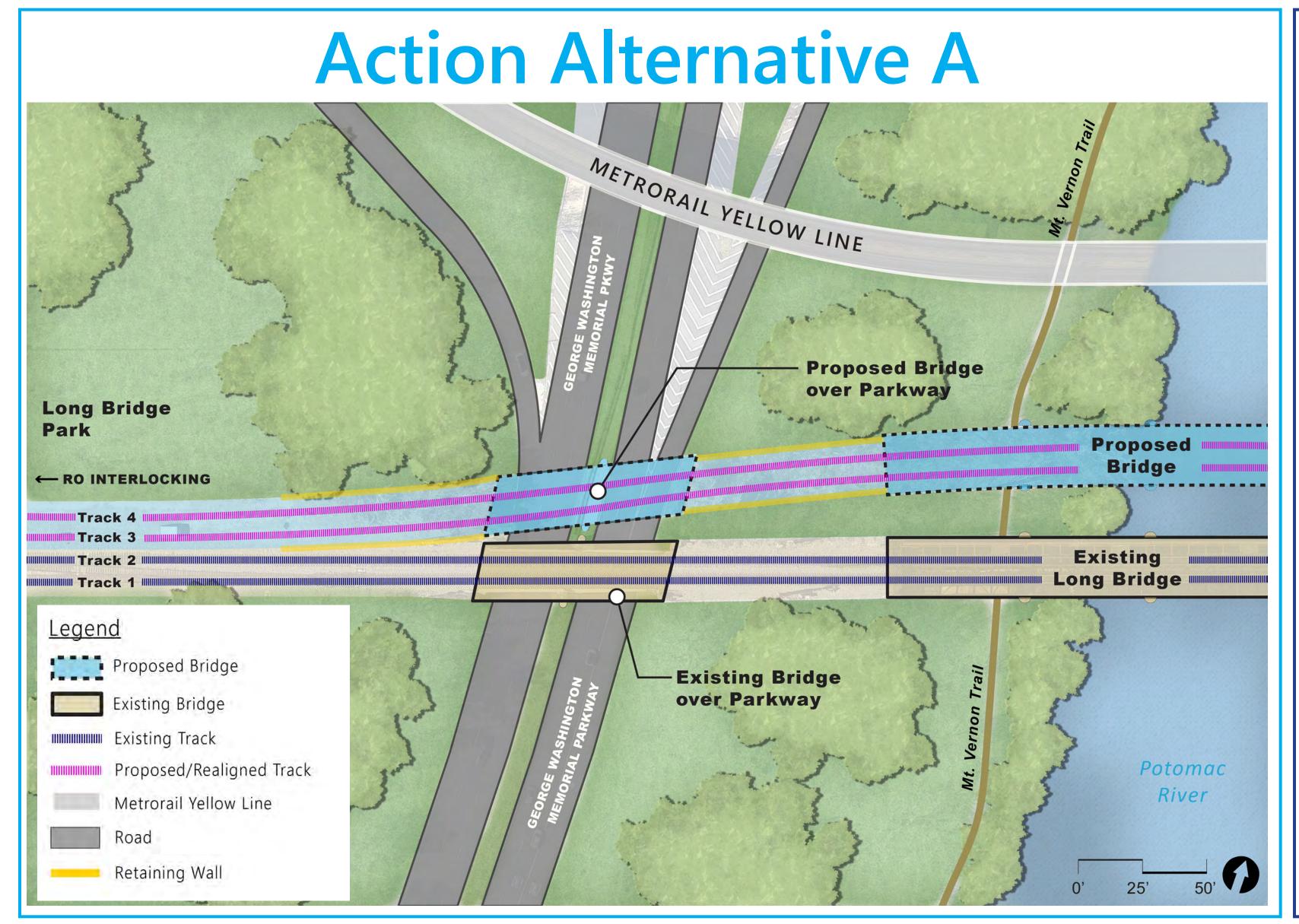
- > Consists of two main girders on the outsides of the bridge with smaller floorbeams spanning perpendicular to the main girders to support the transportation load, allowing for railways to pass "through" the girders
- > Bridge type generally preferred when clearance below the structure is critical

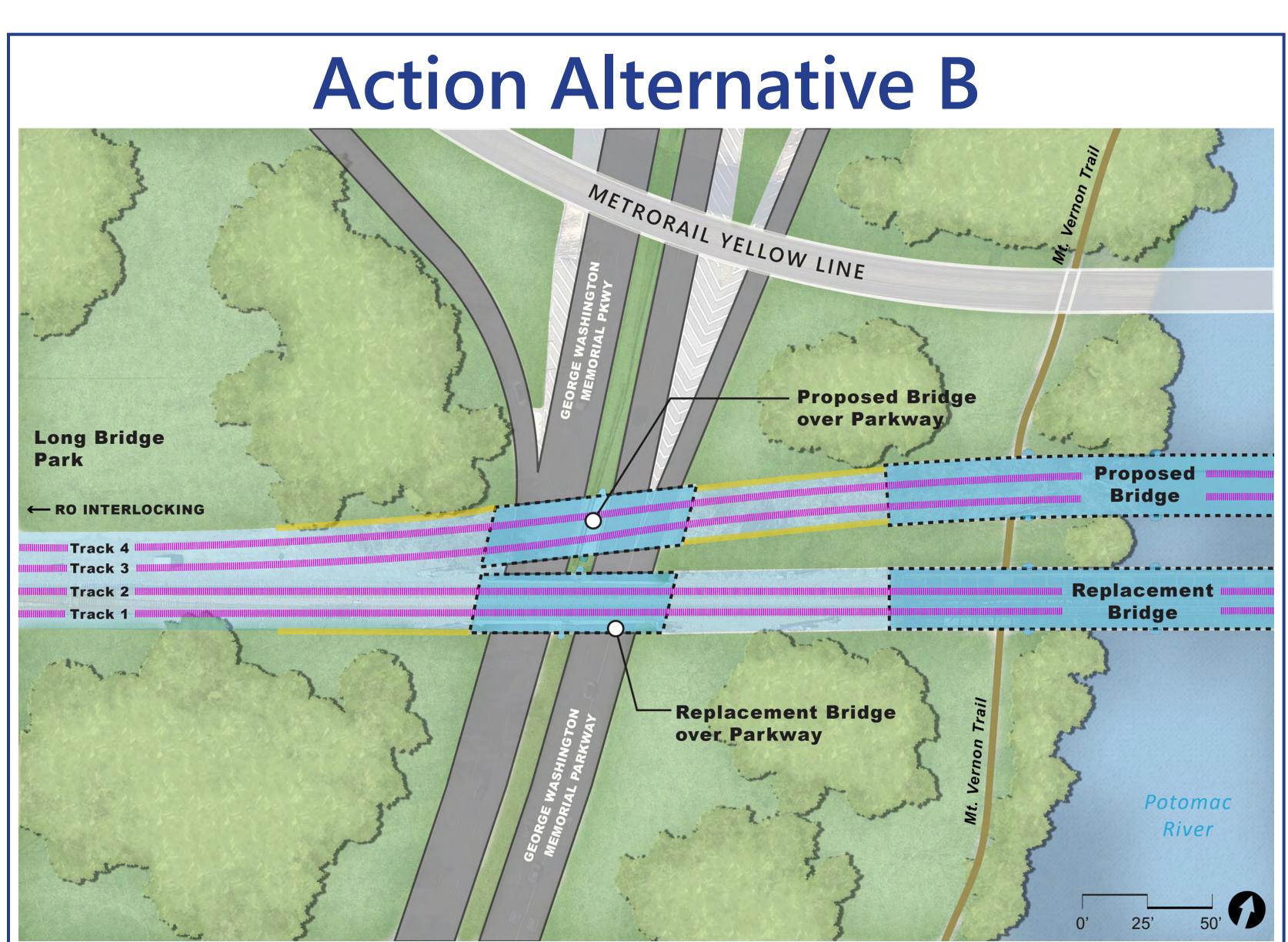
Steel through girder bridges & steel deck girder bridges

- Common railroad bridge structure types
 - Standard types used by CSXT
 - More cost effective than other structure types
- Allow for shallow structure depth over the Potomac River to retain existing vertical clearance over the navigation channel without significant increase to the bridge profile



Long Bridge Park to the George Washington Memorial Parkway





Key Difference

- Action Alternative A retains the existing historic railroad bridge
- over the George Washington Memorial Parkway

 Action Alternative B **replaces** the existing historic railroad bridge over the George Washington Memorial Parkway

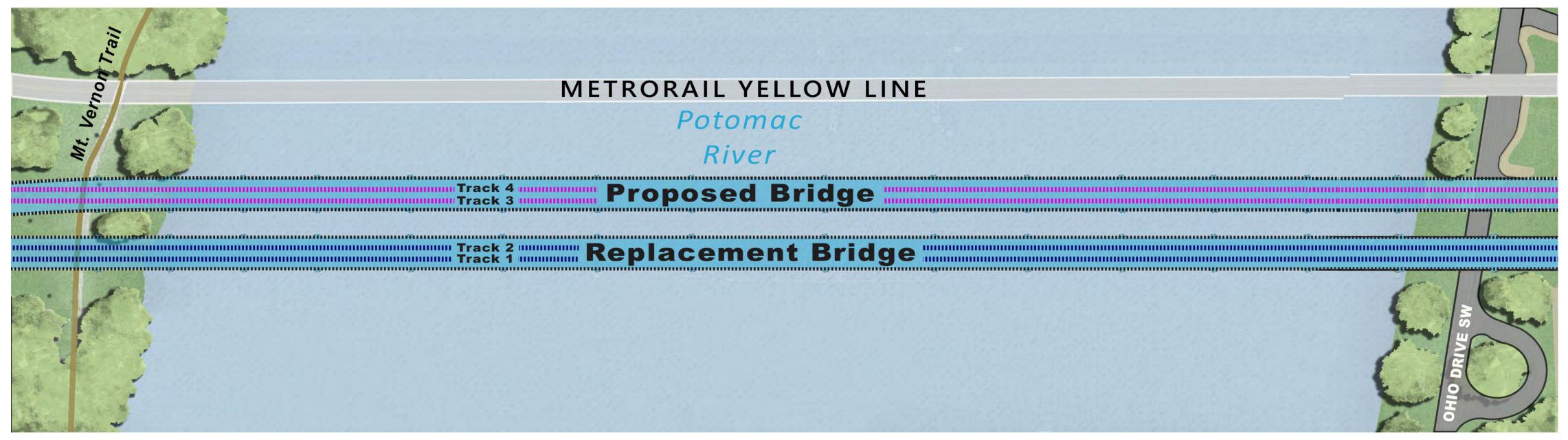




Spanning the Mount Vernon Trail and the Potomac River



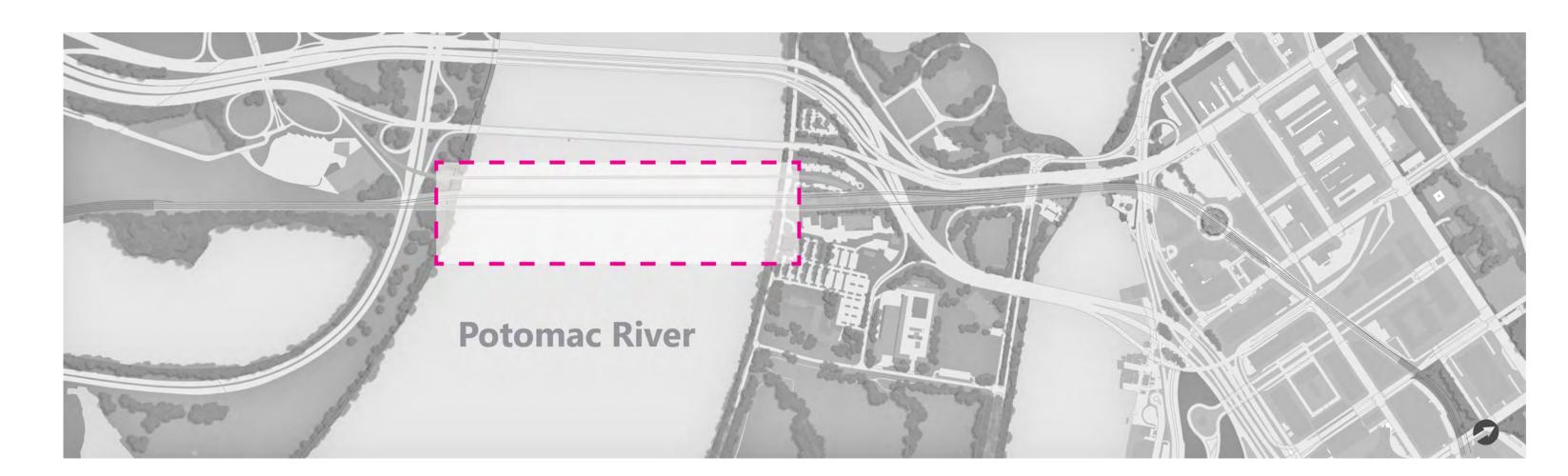
Action Alternative B



Key Difference

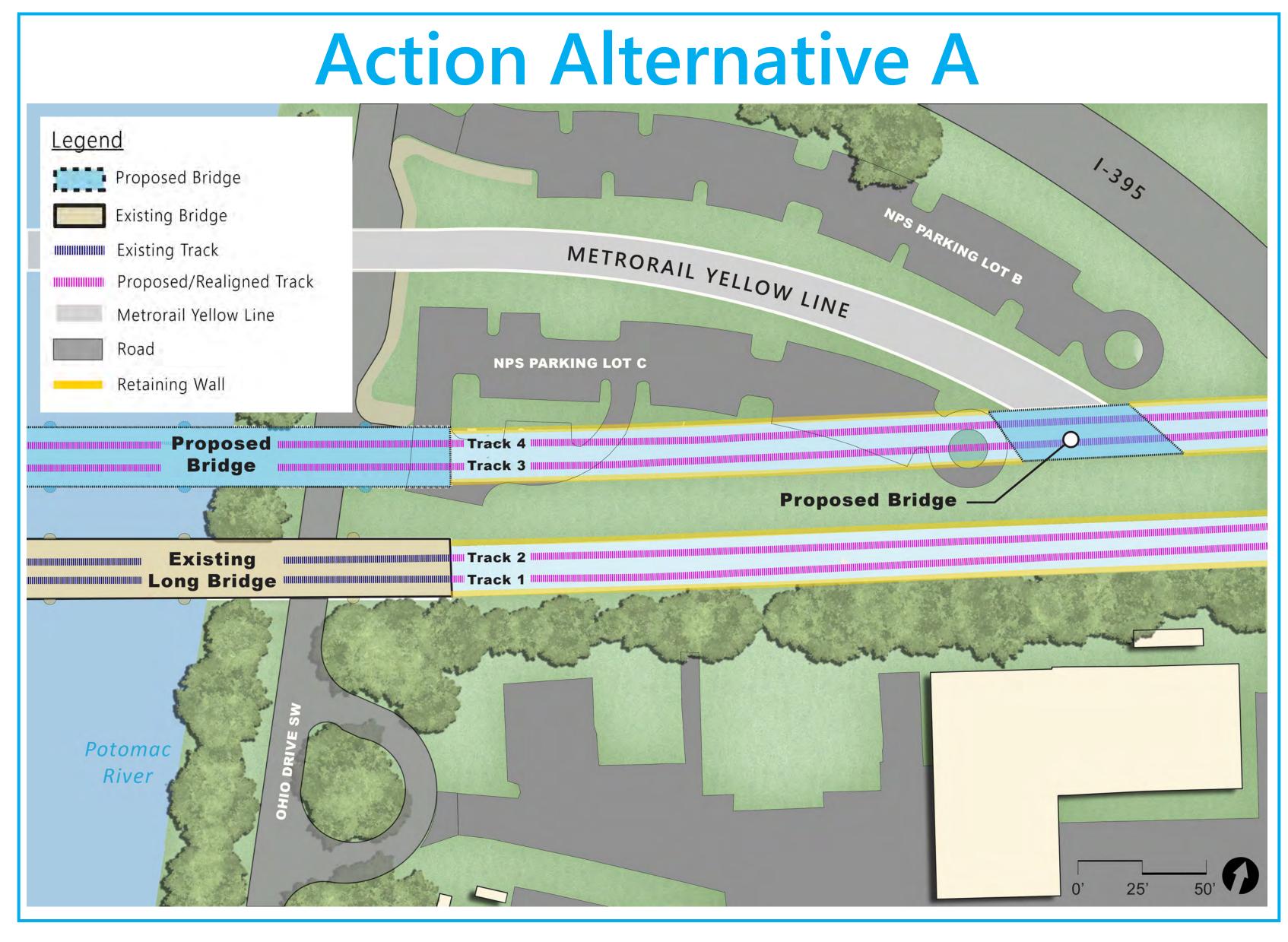
- Action Alternative A retains
 the existing historic Long
 Bridge over the Potomac River
- Action Alternative B **replaces** the existing historic Long Bridge over the Potomac River

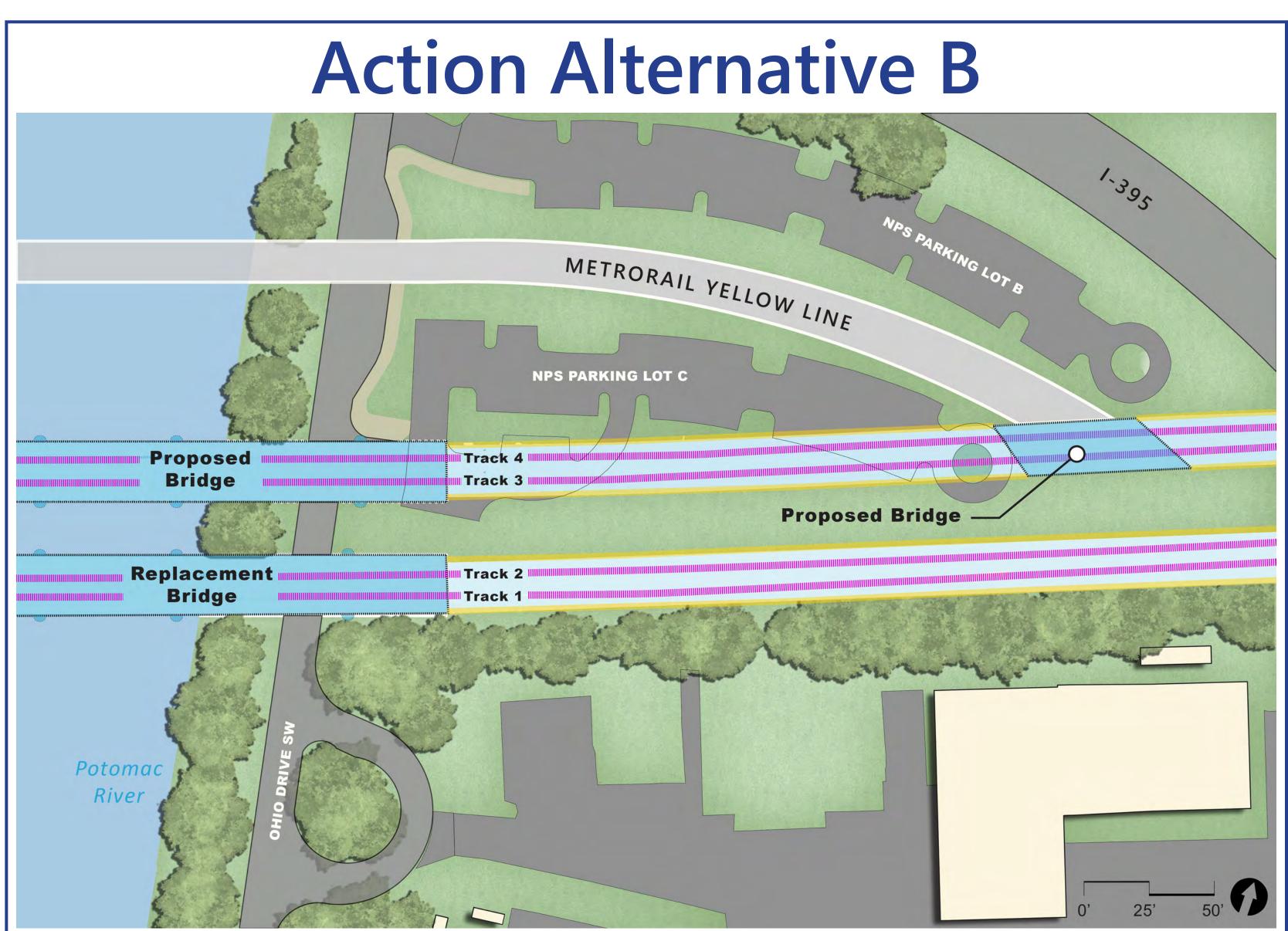






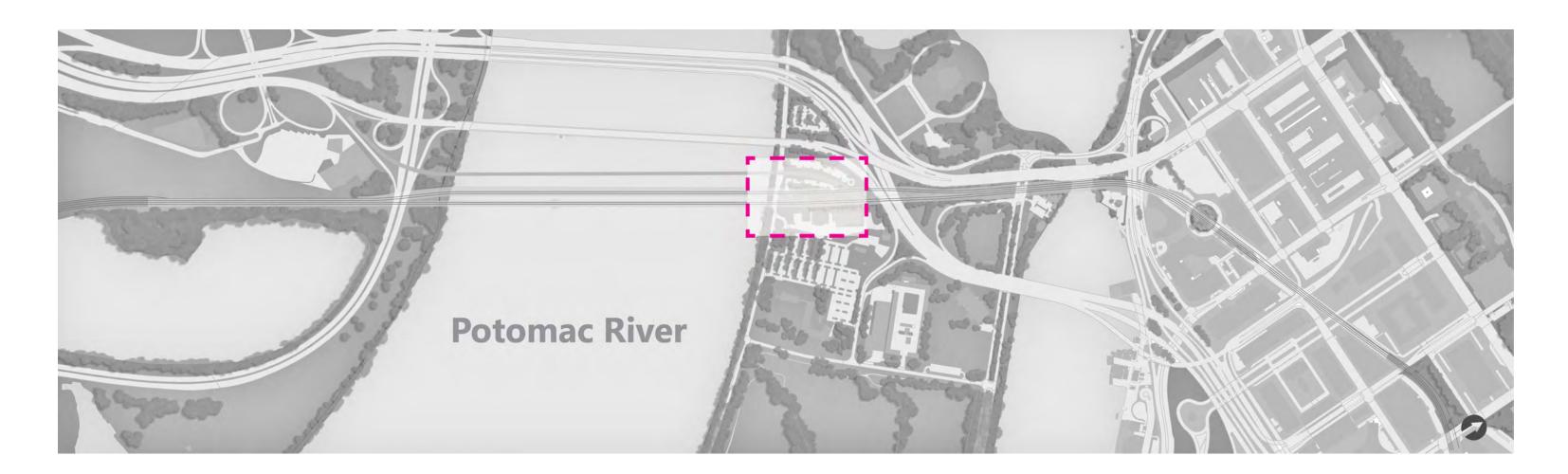
Ohio Drive SW and WMATA Metrorail Tunnel Portal





Key Difference

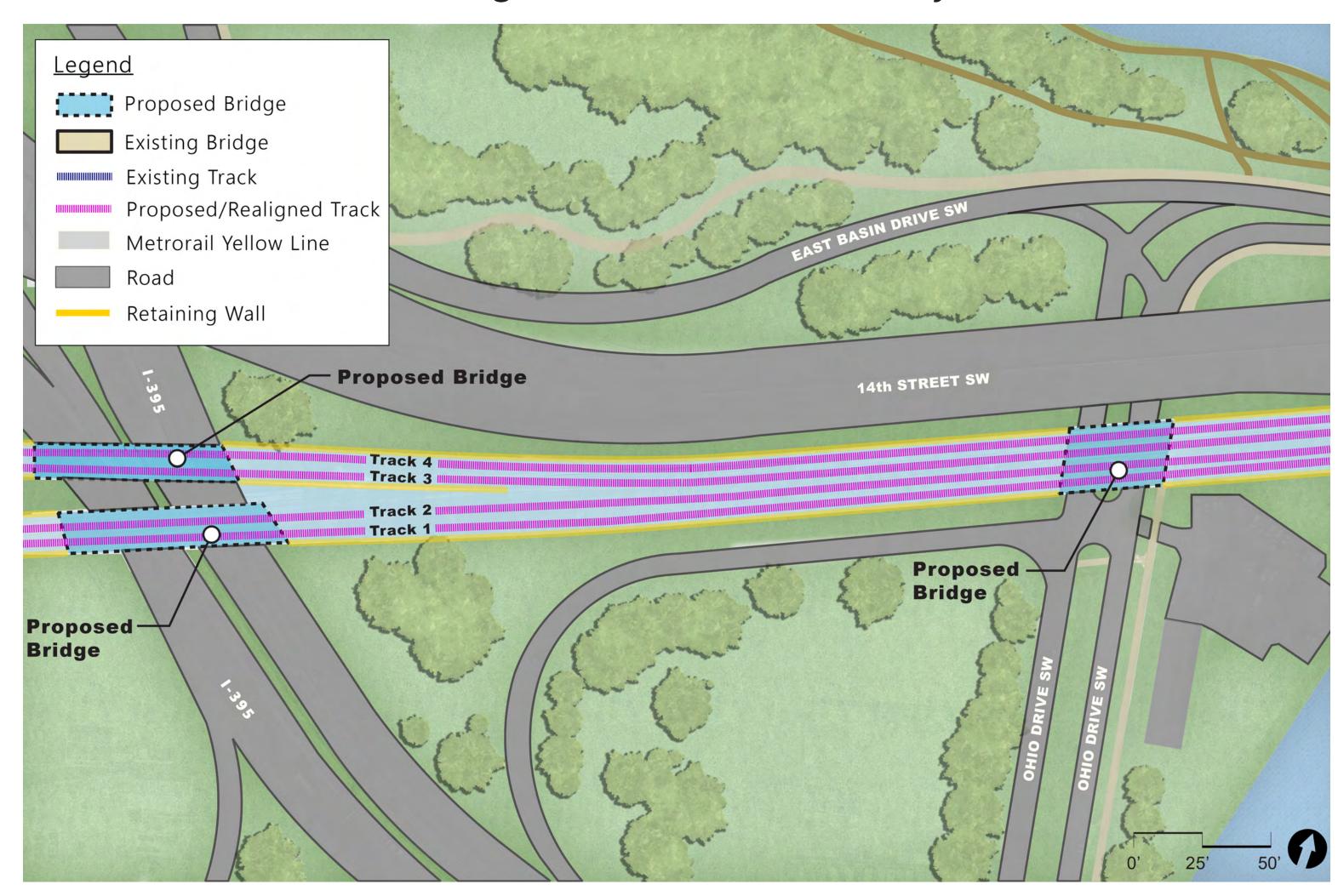
- Action Alternative A **retains** the existing historic Long Bridge over the Potomac River and Ohio Drive SW
- Action Alternative B **replaces** the existing historic Long Bridge over the Potomac River and Ohio Drive SW



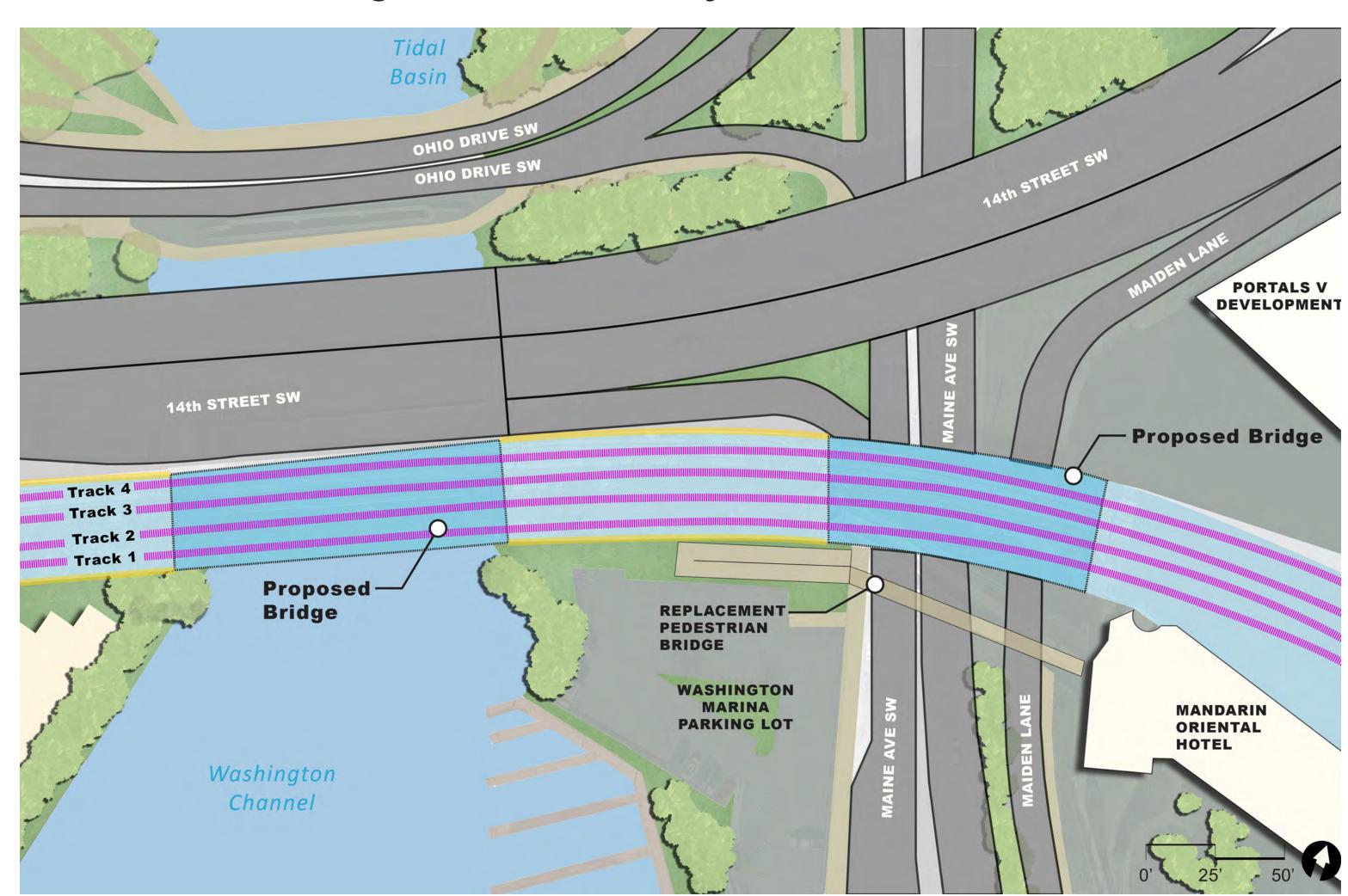


I-395 to Maine Avenue SW Action Alternatives A & B

> Design elements do not vary between the Action Alternatives in these segments of the Project corridor <





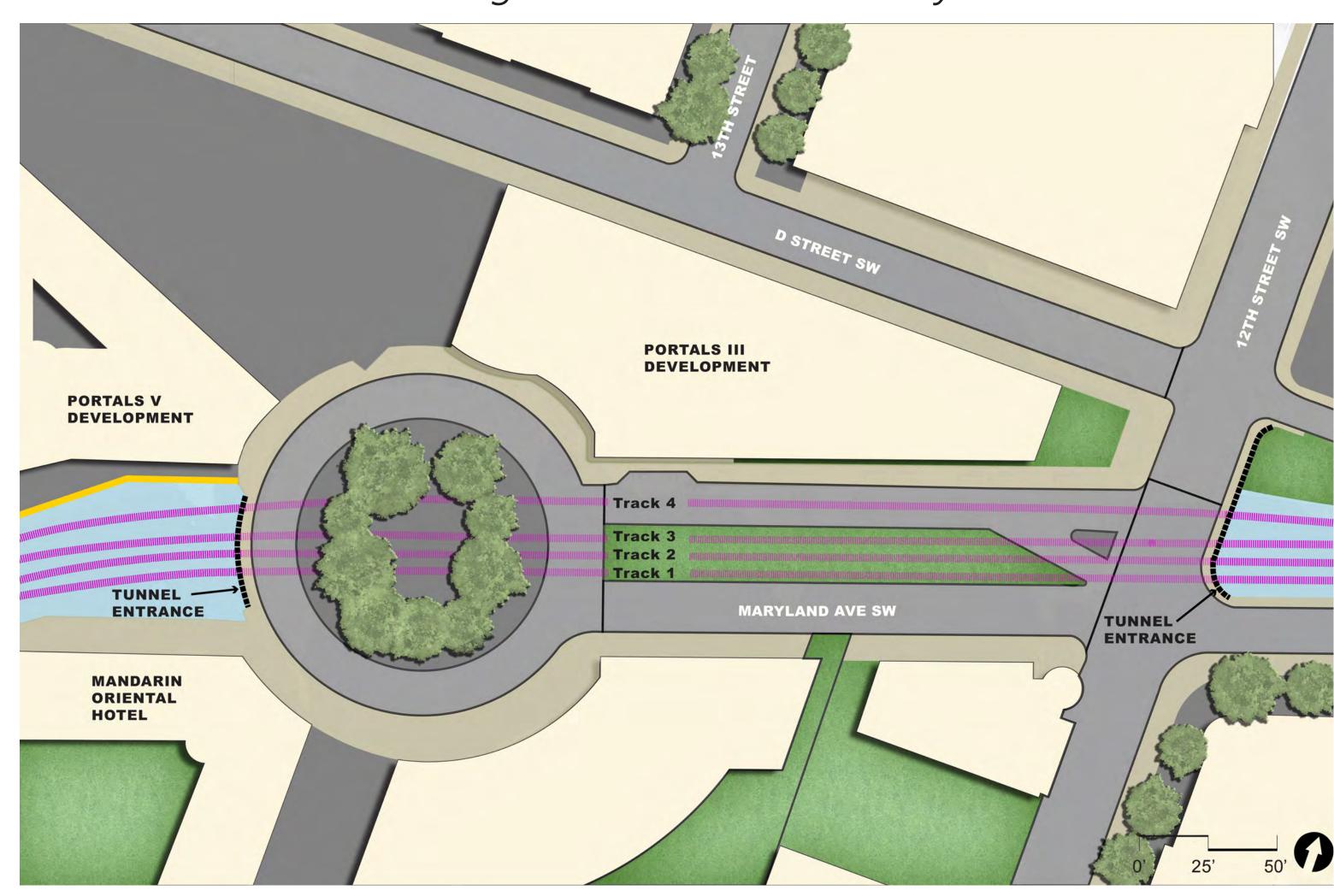


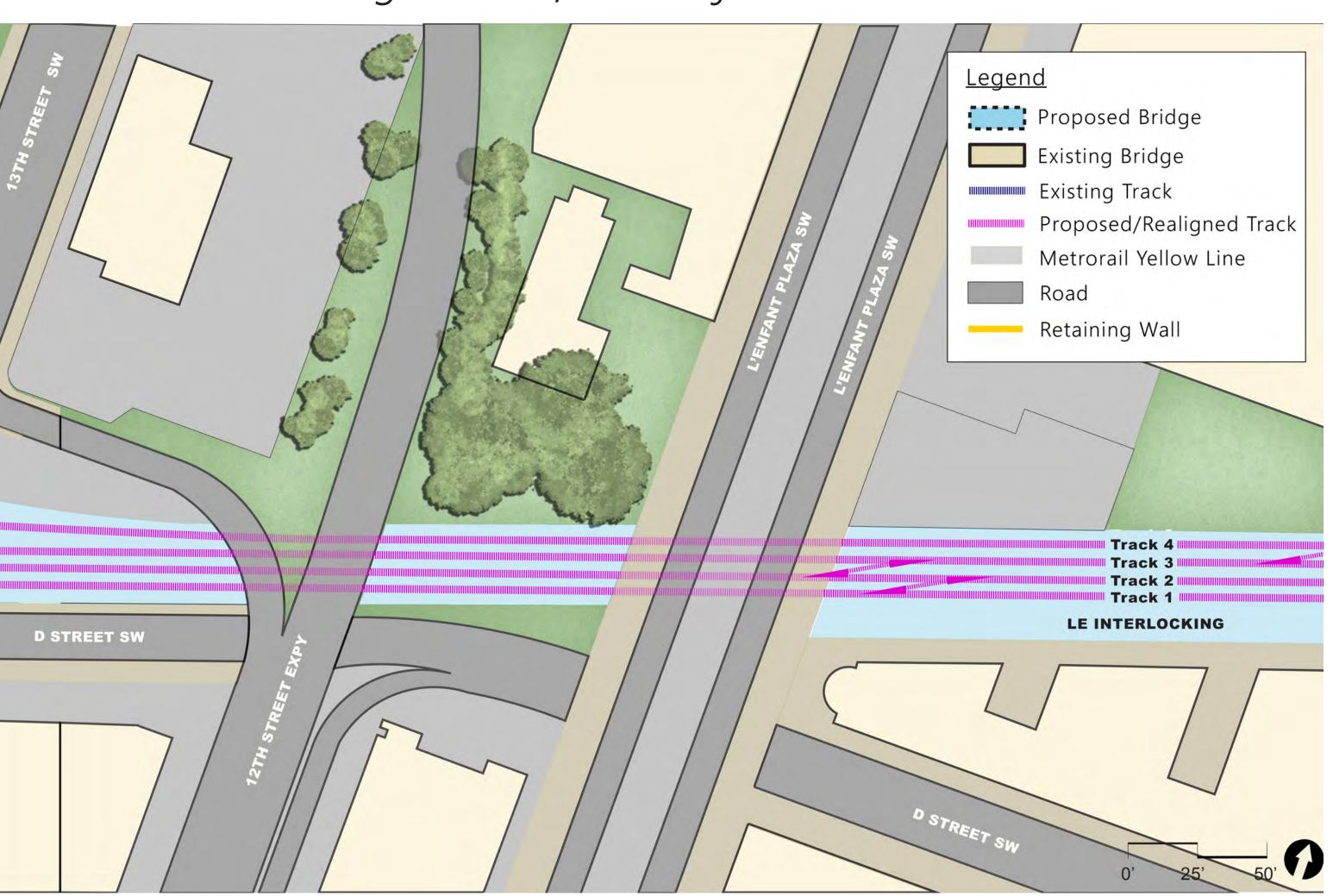


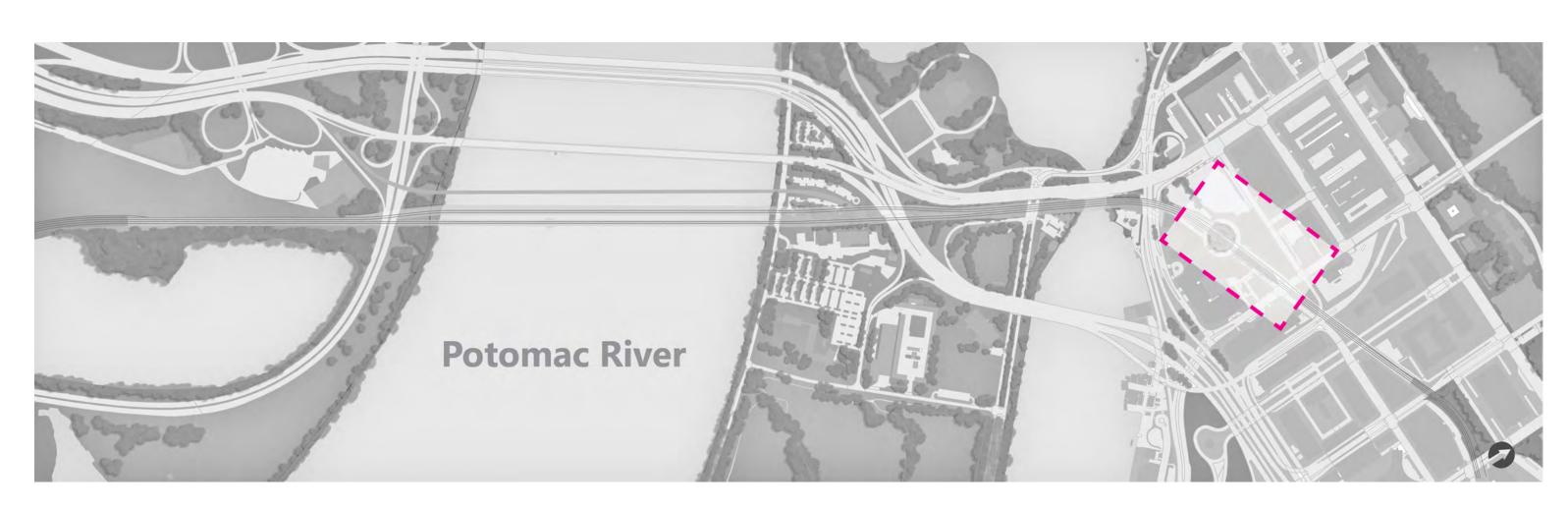


Maryland Avenue SW Overbuild to LE Interlocking Action Alternatives A & B

> Design elements do not vary between the Action Alternatives in these segments of the Project corridor <







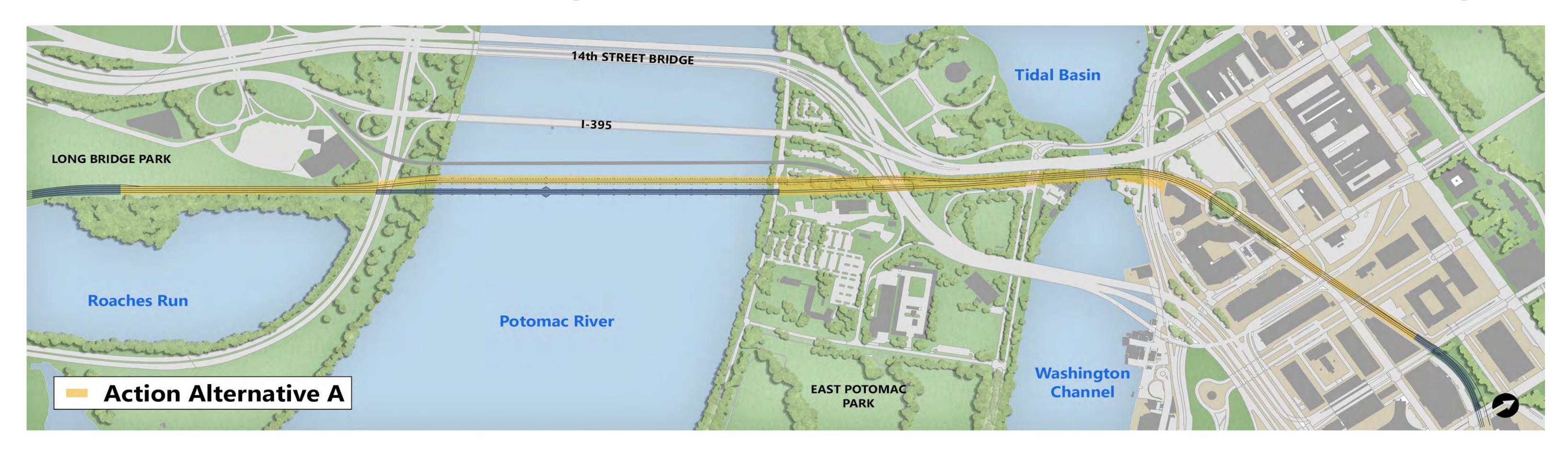


Selection of Preferred Alternative - Action Alternative A



FRA and DDOT have selected Action Alternative A as the Preferred Alternative

Action Alternative A has a lower capital cost, shorter construction duration, and fewer impacts



- Both Action Alternatives support the Purpose and Need and provide the same anticipated benefits
- Selection of the Preferred Alternative occurred after consideration of all comments from agencies and the public on the Project to date

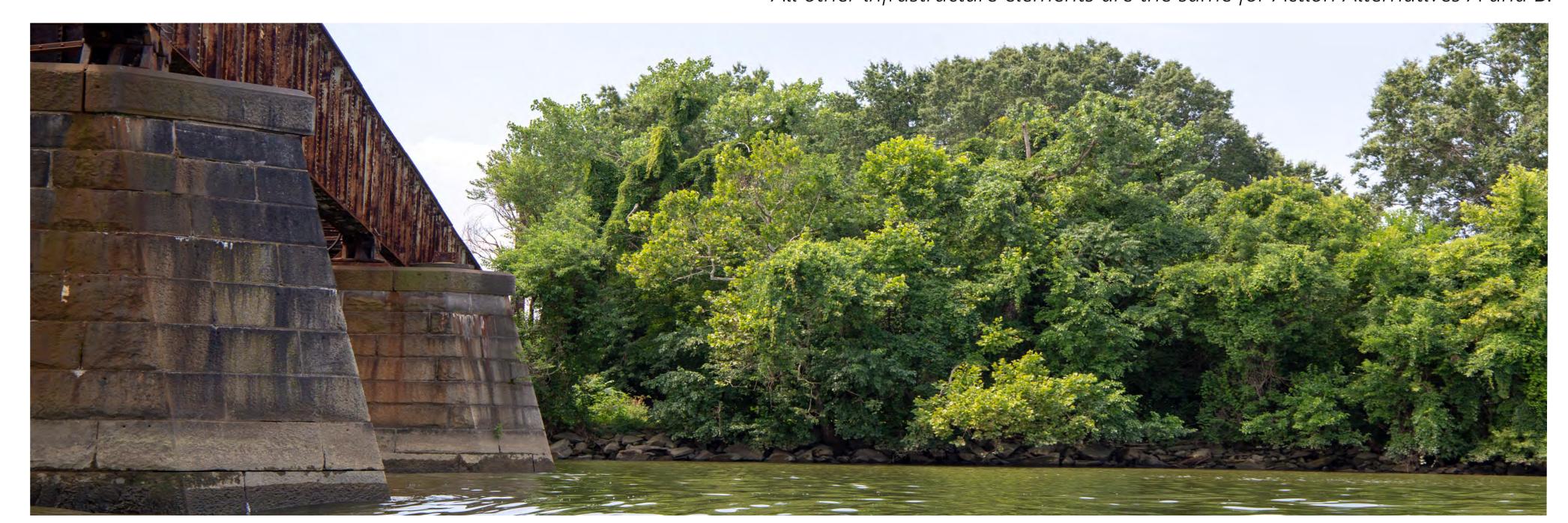
Comparison of Alternatives



	No Action Alternative	Action Alternative A	Action Alternative B
Support of Purpose and Need			
Increases capacity; facilities connectivity; and expands resiliency and redundancy	No	Yes	Yes
Capital Costs and Construction Duration	on		
Capital Costs*		Approx. \$1.9 billion	Approx. \$2.8 billion
Construction Duration		Approx. 5 years	Approx. 8.25 years
Differentiating Infrastructure Element	:S**		
Existing railroad bridge over George Washington Memorial Parkway (GWMP) retained	Yes	Yes	No
Existing Long Bridge retained	Yes	Yes	No

*Approximate costs are based on conceptual engineering and subject to change as design advances. Costs in 2019 dollars.

**All other infrastructure elements are the same for Action Alternatives A and B.

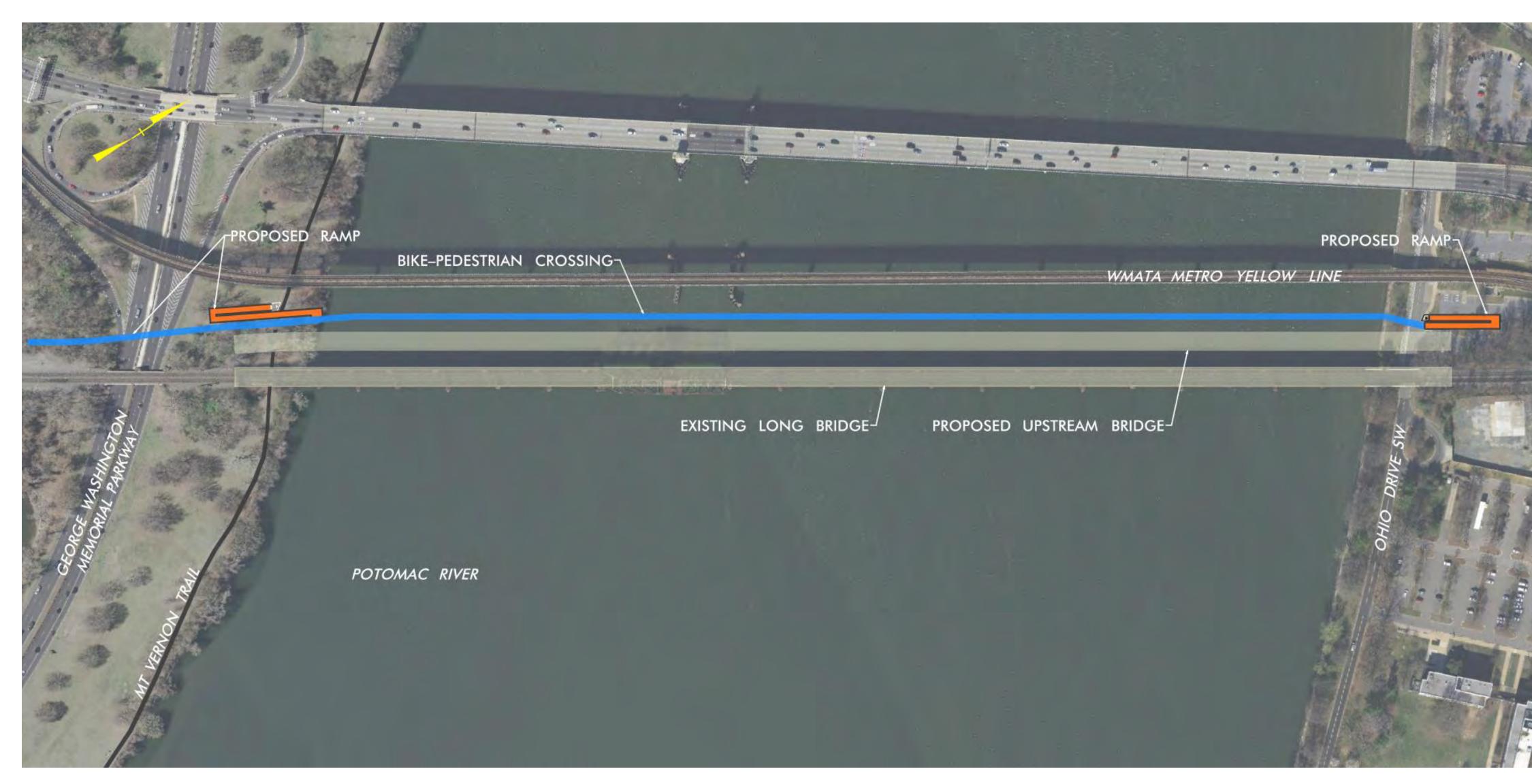


Compared to Action Alternative A, Action Alternative B would have...

- > More permanent environmental impacts due to replacement of existing Long Bridge and the railroad bridge over the GWMP
- > More temporary construction impacts due to demolition of existing bridges, construction of replacement bridges, and longer construction duration (up to 3.25 years longer)
- > Greater Section 106 impacts due to replacement of existing historic bridges Long Bridge and the railroad bridge over the GWMP
- > Greater Section 4(f) impacts to historic properties protected under Section 4(f) due to replacement of the existing historic bridges and greater Section 4(f) impacts to parks protected under Section 4(f) due to additional construction staging areas and wider right-of-way required in East Potomac Park
- > Greater temporary beneficial impact on jobs due to construction

Bike-Pedestrian Crossing

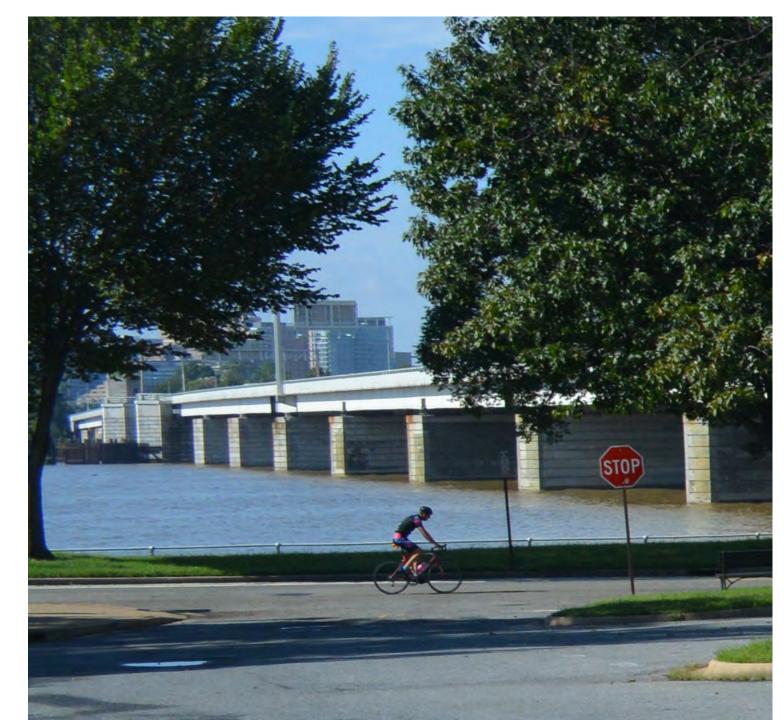




- > New bike-pedestrian crossing proposed as mitigation for impacts to Section 4(f)-protected resources
- > Crossing would provide important connection within the regional trail system
- Crossing would link Long Bridge Park, Mount Vernon Trail, and East Potomac Park



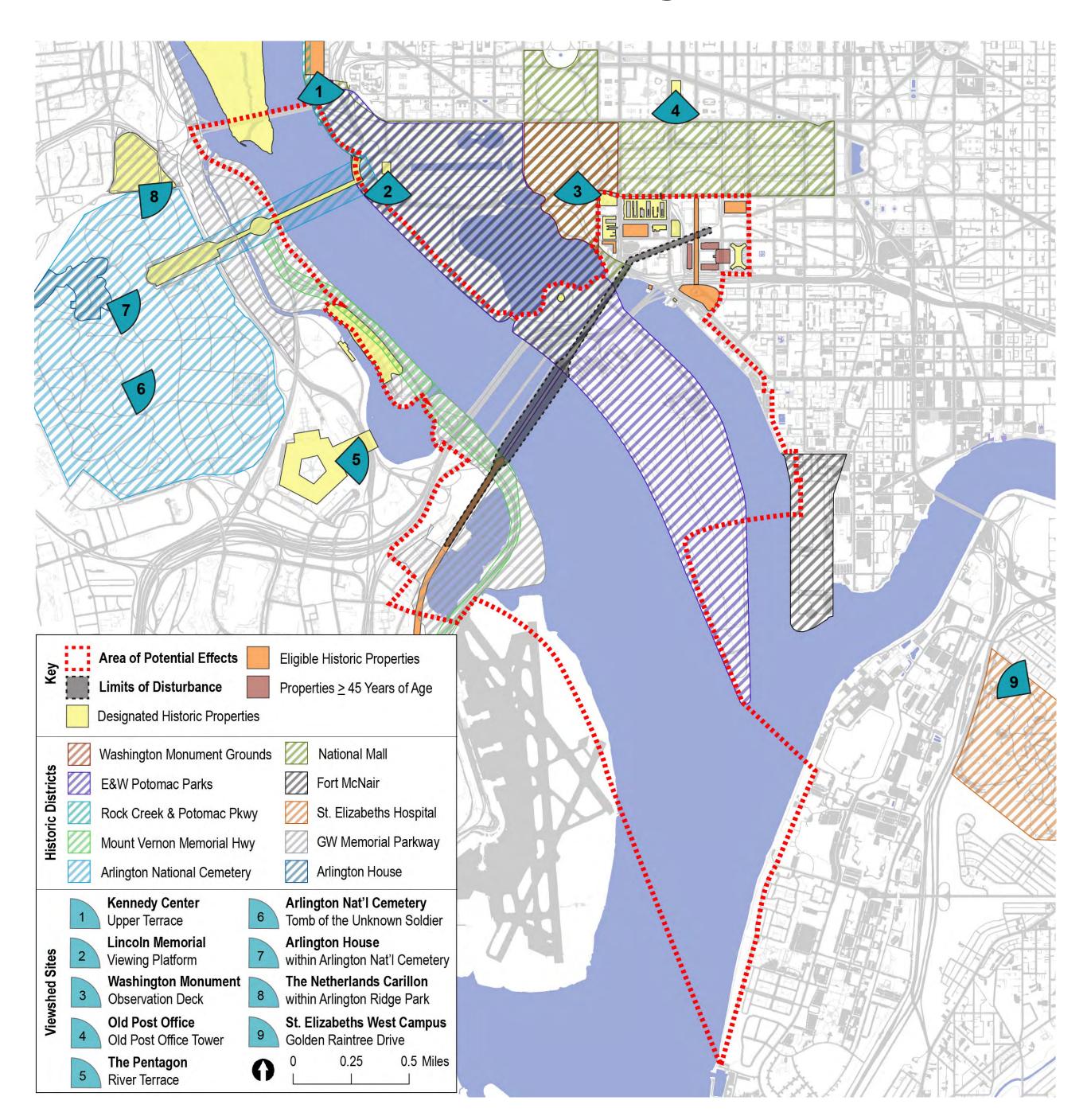
If constructed as part of the railroad bridge construction contract, construction would begin following completion of the railroad bridge because the space for the bike-pedestrian crossing is needed to deliver equipment and materials for the bridge construction. Construction would take approximately 2 additional years.





Section 106 Summary of Adverse Effects & Resolutions





Historic Property	No Action Alternative	Action Alternative A	Action Alternative B
National Mall Historic District - <i>DC</i>	N/A	N/A	N/A
George Washington Memorial Parkway (GWMP) - VA/DC	N/A	Adverse Effect	Adverse Effect
Mount Vernon Memorial Highway (MVMH) - <i>VA/DC</i>	N/A	Adverse Effect	Adverse Effect
East and West Potomac Parks - <i>VA/DC</i>	N/A	Adverse Effect	Adverse Effect

Historic Property	Adverse Effect	Minimization/Mitigation Measure
GWMP/MVMH East and West Potomac Parks	Visual changes to views and viewsheds	Design Review Viewshed Protection Plan Cultural Landscape Inventories
GWMP/MVMH East and West Potomac Parks NAMA	Removal of contributing trees and vegetation	Tree Protection Plan Tree Restoration Plan Design Review Viewshed Protection Plan Cultural Landscape Inventories
GWMP/MVMH East and West Potomac Parks NAMA	Introduction of new elements into HDs	Tree Restoration Plan Design Review
GWMP/MVMH East and West Potomac Parks NAMA	New bridge would obstruct views of existing Long Bridge	Interpretation Plan
GWMP/MVMH East and West Potomac Parks NAMA	Use of historic districts for construction staging	Construction Management Plan
GWMP/MVMH East and West Potomac Parks Riverbed	Potential adverse effects to archaeological resources	To be determined through future identification and evaluation efforts

