



January 25, 2023  
**Public Information Meeting**  
**75% Fruit Street & Ramp ES/SE**

Virtual Meeting

No. 607977-116673

**Project email**

[495-90Improvements@state.ma.us](mailto:495-90Improvements@state.ma.us)





# Zoom Webinar Controls for Meeting



- Ask a question and share comments



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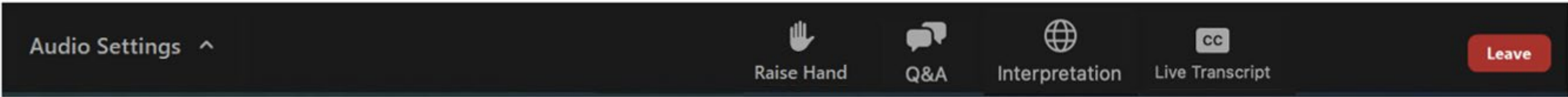
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## Other Important Notes

- Your microphone and webcam are automatically disabled upon entering this meeting.
- The meeting will be open to questions and answers at the end of the formal presentation.
- Please take time to respond to our survey! Your feedback is important.



# Public Information Meeting—Advertisement

1. Local Newspapers
2. Social Media: MassDOT Facebook and Twitter
3. Central Massachusetts Planning Commission
4. Other organizations that have agreed to help with outreach:
  - Hopkinton Council on Aging
  - Westborough Senior Center
  - Town of Hopkinton Disability Commission
  - Disability Commission Westborough





## Notice of MassDOT's policy on diversity and civil rights:

- All MassDOT activities, including public meetings, are free of discrimination.
- MassDOT complies with all federal and state civil rights requirements preventing discrimination based on sex, race, color, ancestry, national origin (limited English proficiency), religion, creed, gender, sexual orientation, gender identity or expression, or veteran's status.
- We welcome the diversity from across our entire service area. If you have any questions or concerns, please visit <https://www.mass.gov/nondiscrimination-in-transportation-program> to reach the Office of Diversity and Civil Rights.

**Thank you for joining our meeting. We appreciate your participation!**



# Agenda

**01** Project Overview

**02** 75% Design:  
Fruit Street and  
Ramps ES/SE

**03** Outreach and  
Communication Plan







# Project Overview



# Project Team

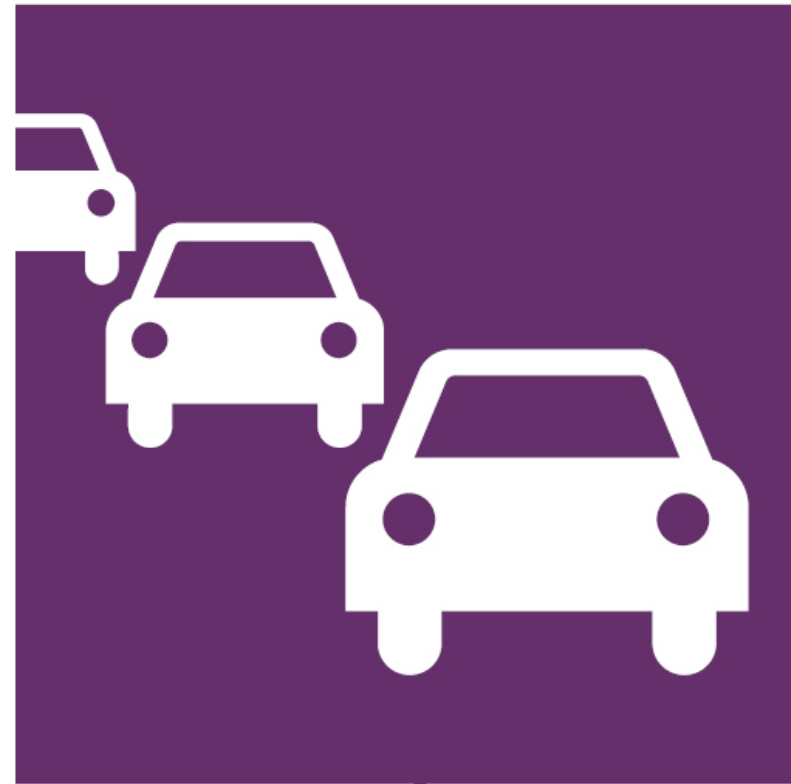




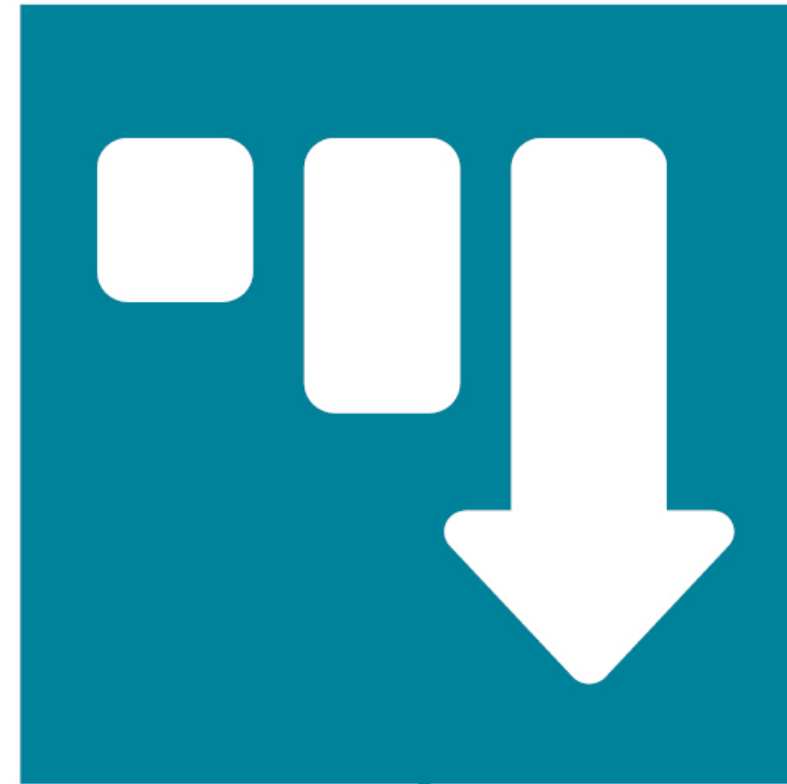
## Project Goals



**Reduce crashes**  
in the project area for  
all movements



**Reduce recurring  
congestion**  
within the interchange



**Reduce queuing**  
that currently extends  
from the interchange  
onto the mainlines of  
I-90 and I-495



**Reduce travel time**  
the interchange,  
especially for  
high-volume  
movements

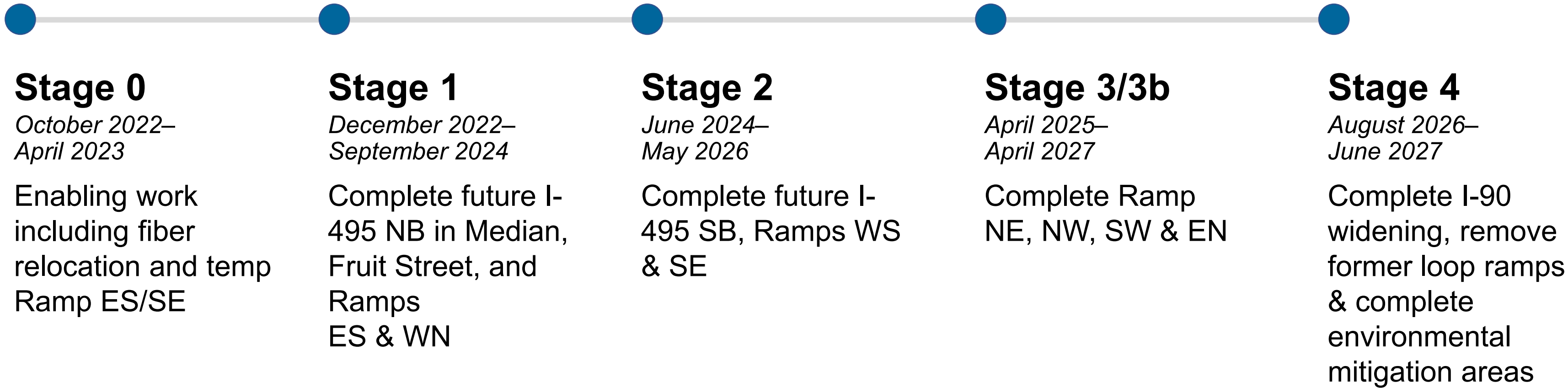


# Schedule

## Design



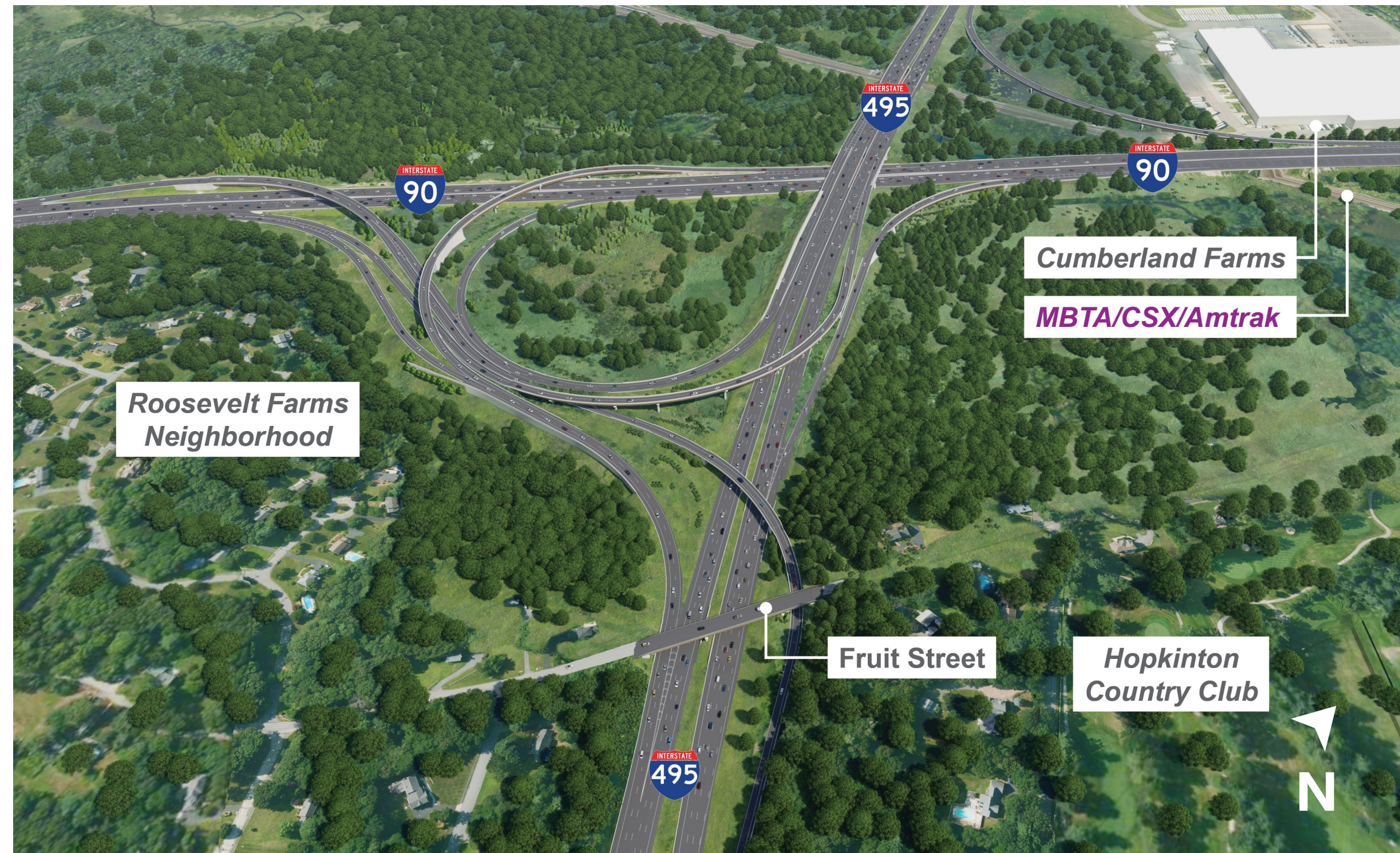
## Construction





## Key Project Elements & Proposed Modifications

- Project limits extend approximately 3/4 mile in each direction
- Complete replacement of the Interchange
- Elimination of old toll booth area and weaving areas
- Extremely sensitive environmental resource area





## I-90

- Future I-90 - 3 lanes in each direction with minor widening
- Minimal changes to roadway profile and cross slope
- I-90 bridge over MBTA/CSX/Amtrak to be replaced
- Fiber optic cables in median and EB shoulder to be relocated
- Culvert at Whitehall Brook to be replaced





## I-495

- Future I-495 will provide 3 lanes per direction
- An additional (4th) lane will be provided on I-495 NB to Route 9
- Future I-495 NB will be constructed within the existing median
- Future I-495 SB will be in its existing location
- I-495 bridges over MBTA/CSX/Amtrak and I-90 to be replaced
- I-495 NB bridge over Flanders Road to be replaced

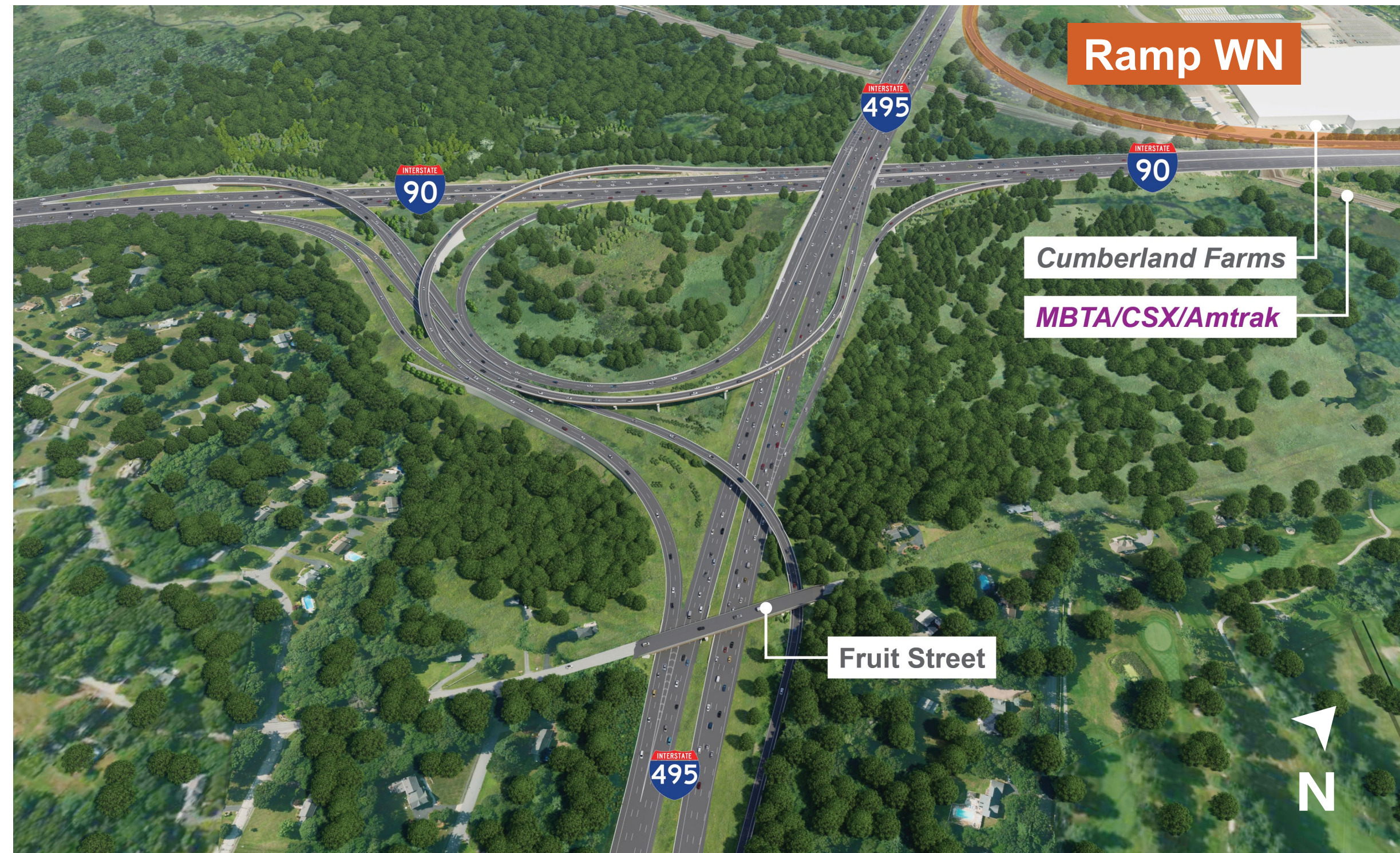




## Ramp WN

- New direct ramp provided between I-90 WB and I-495 NB
- Single lane ramp
- Entrance to I-495 NB begins additional 4th lane NB to Route 9

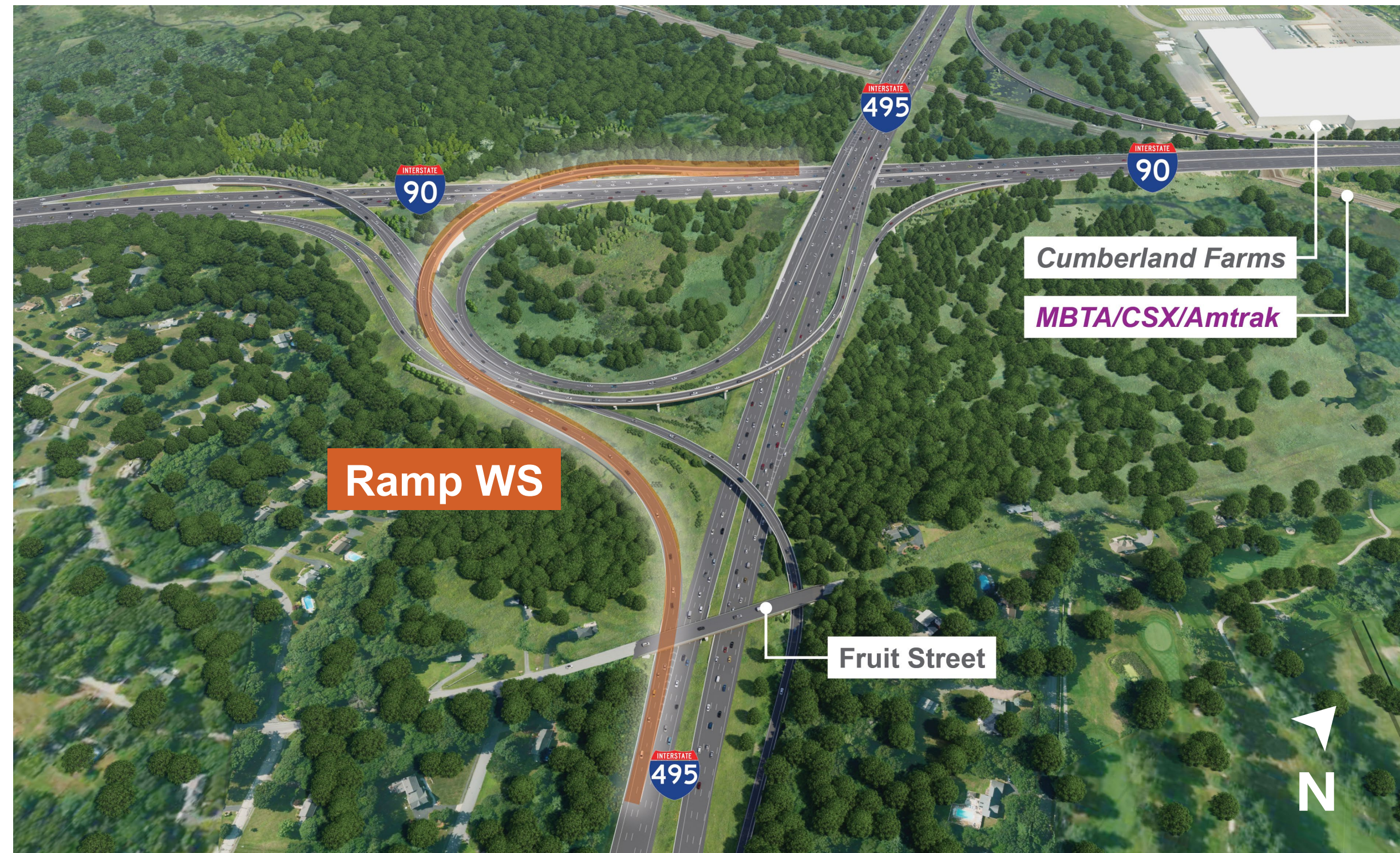
*\*Ramp Designations indicate directionality—i.e., **Ramp WN** connects I-90W to I-495N*





## Ramp WS

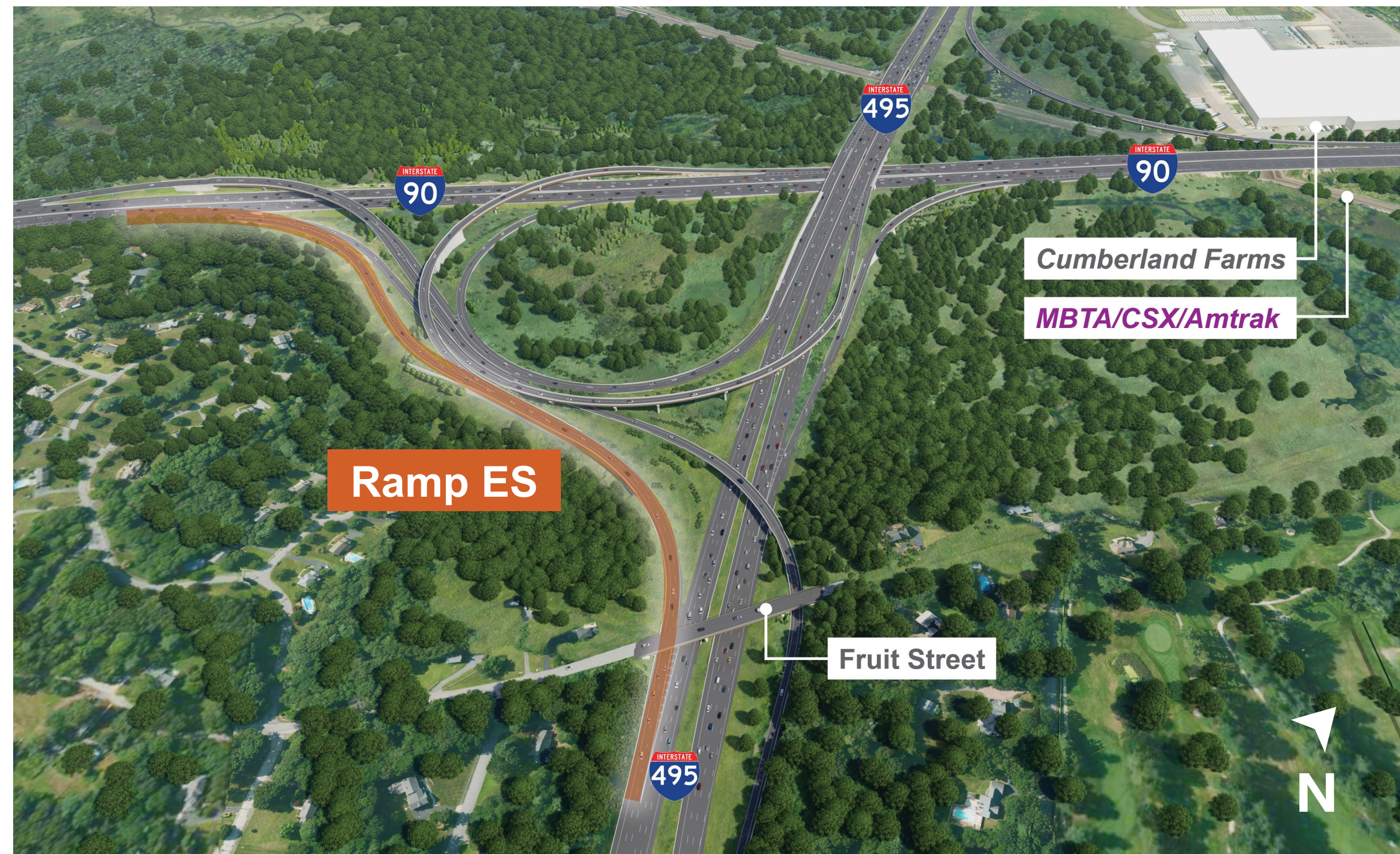
- New semi-direct ramp provided between I-90 WB and I-495 SB
- Single lane off-ramp
- Combines with new Ramp ES to provide 2-lane on-ramp to I-495 SB





## Ramp ES

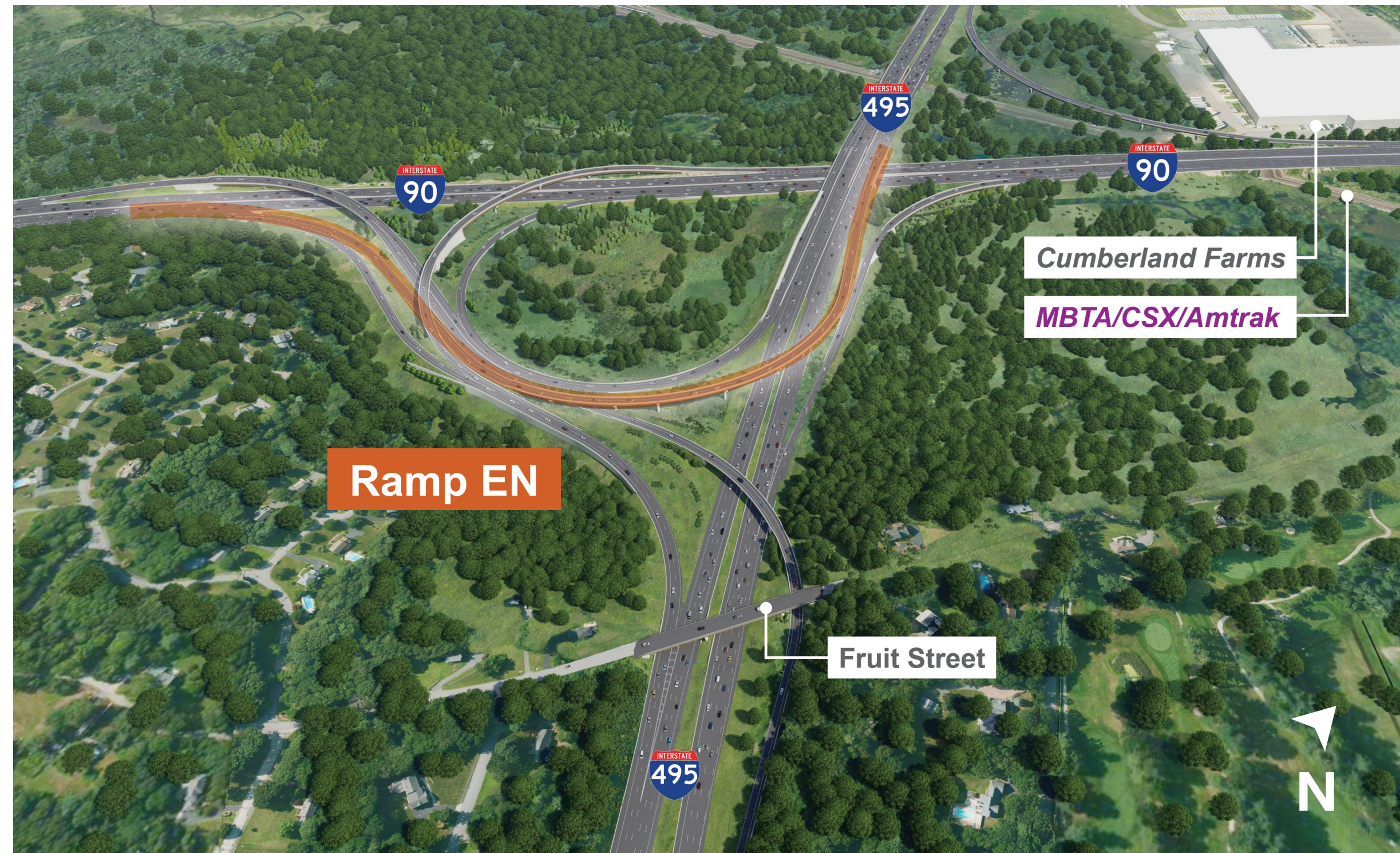
- New direct ramp provided between I-90 EB and I-495 SB
- Part of a 2-lane off-ramp from I-90 EB (splits to Ramp ES and Ramp EN)
- Combines with Ramp WS to provide 2-lane on-ramp to I-495 SB





## Ramp EN

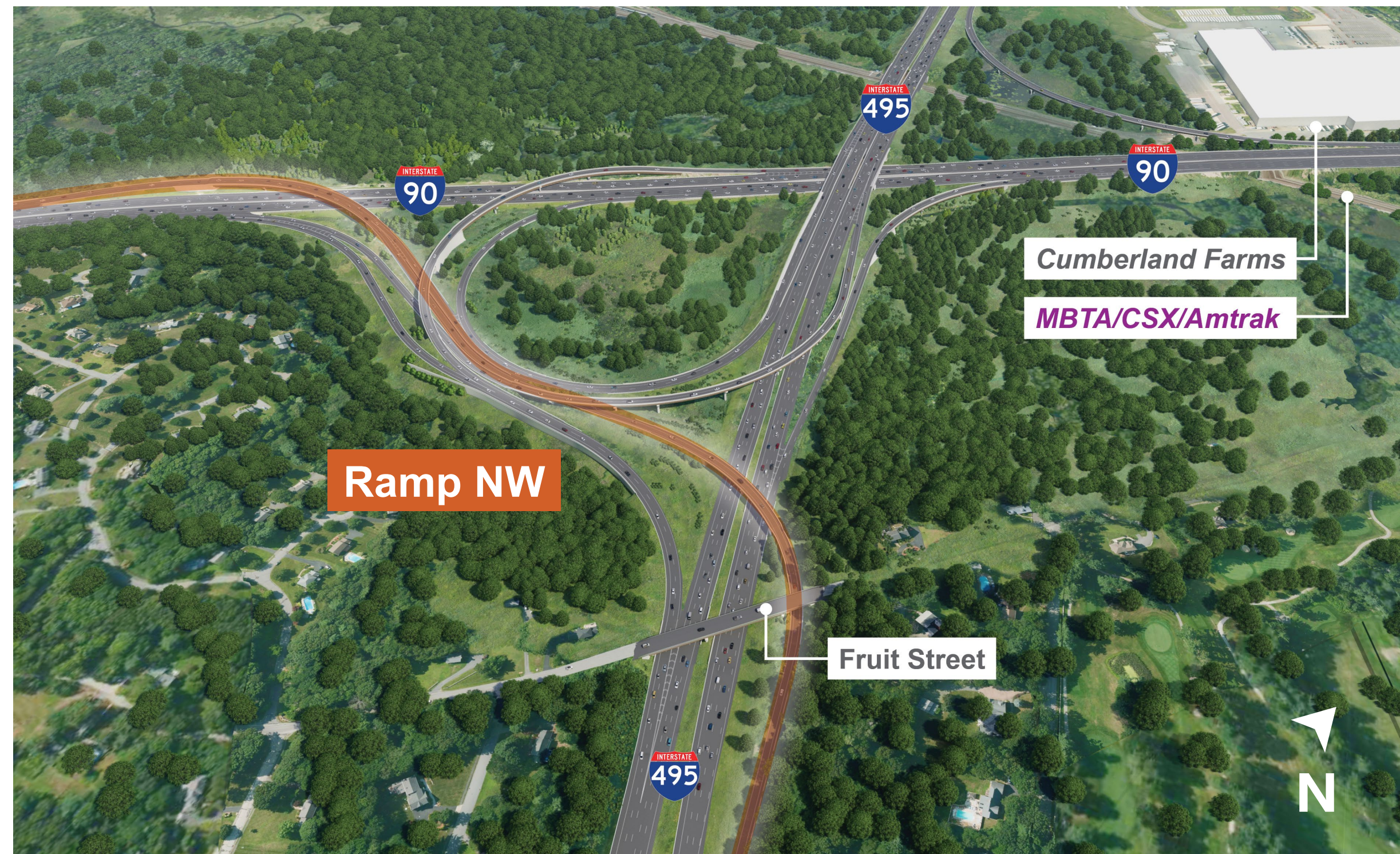
- New semi-direct ramp provided between I-90 EB and I-495 NB
- Part of a 2-lane off-ramp (splits to Ramp EN and Ramp ES)
- Enters I-495 NB as a single lane on-ramp on the I-495 NB bridge over I-90





## Ramp NW

- New semi-direct ramp provided between I-495 NB and I-90 WB
- Single lane off-ramp
- Combines with Ramp SW to provide a 2-lane on-ramp to I-90 WB





## Ramp NE

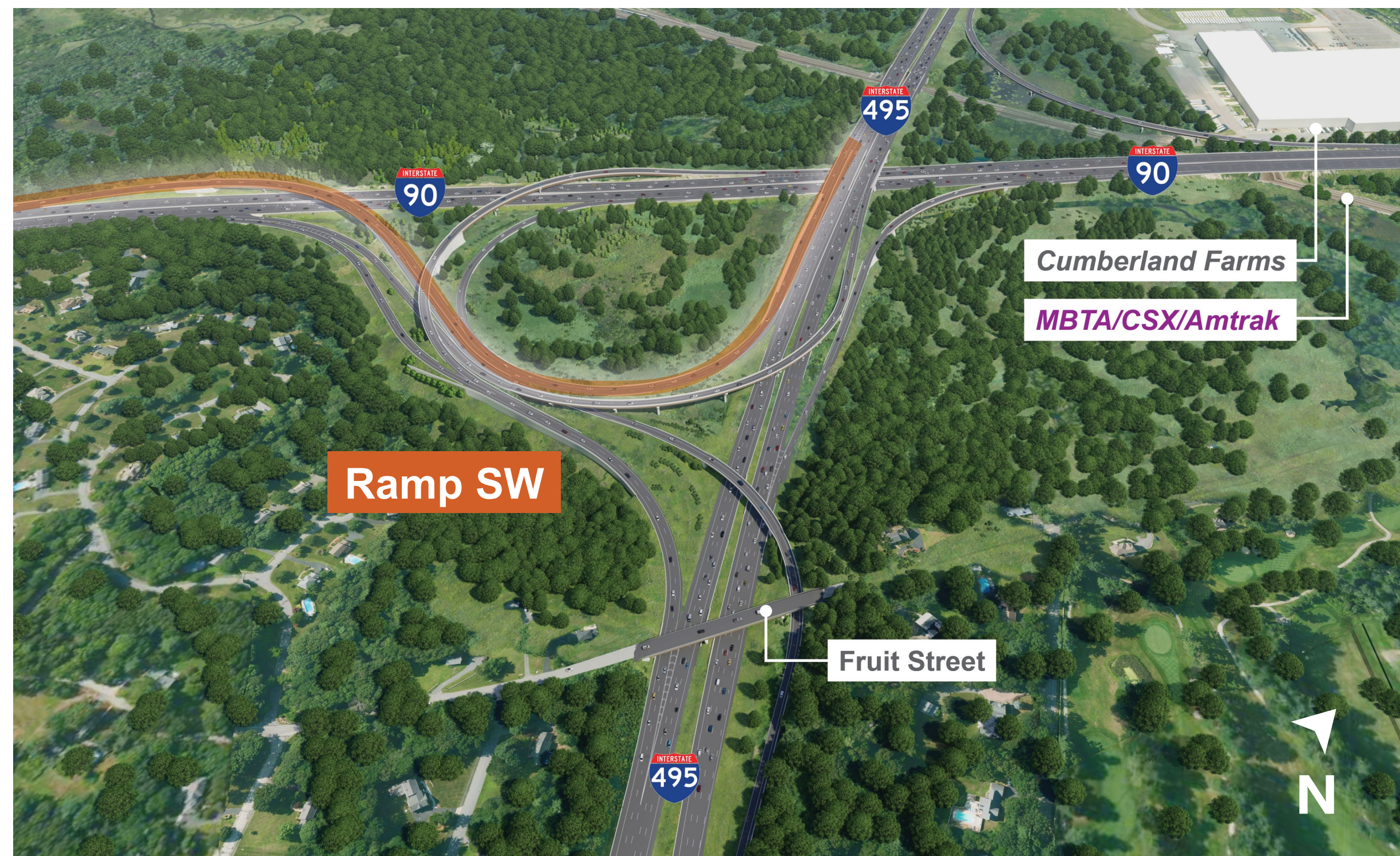
- New direct ramp from I-495 NB to I-90 EB
- Single lane ramp
- Enters I-90 EB as a single lane on-ramp on the I-90 EB over the MBTA/CSX/Amtrak bridge





## Ramp SW

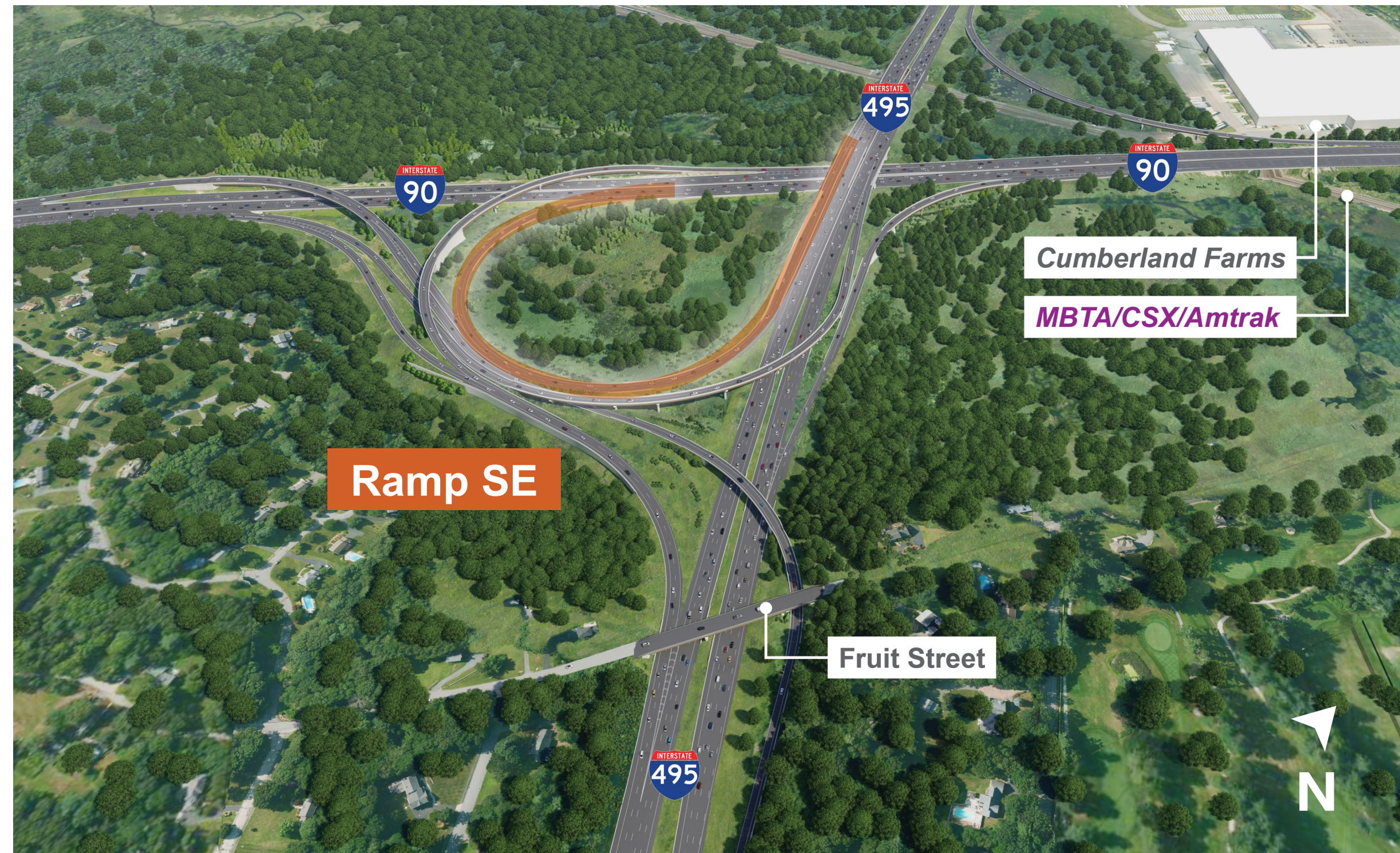
- New semi-direct ramp from I-495 SB to I-90 WB
- Part of a 2-lane off-ramp (splits to Ramp SW and Ramp SE)
- Combines with Ramp NW to provide a 2-lane on-ramp to I-90 WB





## Ramp SE

- New loop ramp from I-495 SB to I-90 EB
- Part of a 2-lane off-ramp (splits to Ramp SE and Ramp SW)
- Enter I-90 EB as a single lane on-ramp





# Fruit Street Bridge

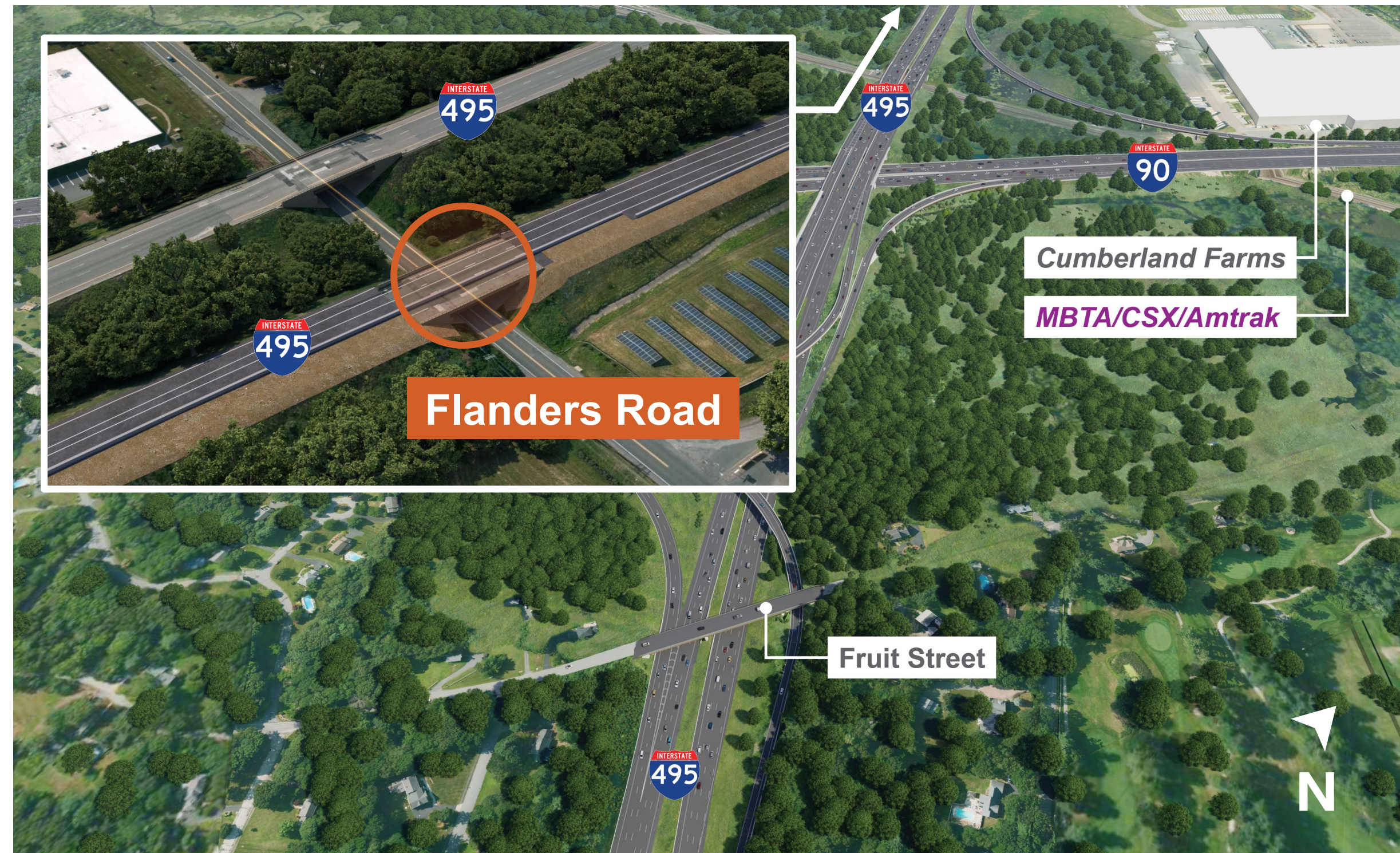
- Replacement of Fruit Street bridge over I-495
- Will be completed in 2 major stages
- Involves additional roadway, utility and landscaping features





# Flanders Road

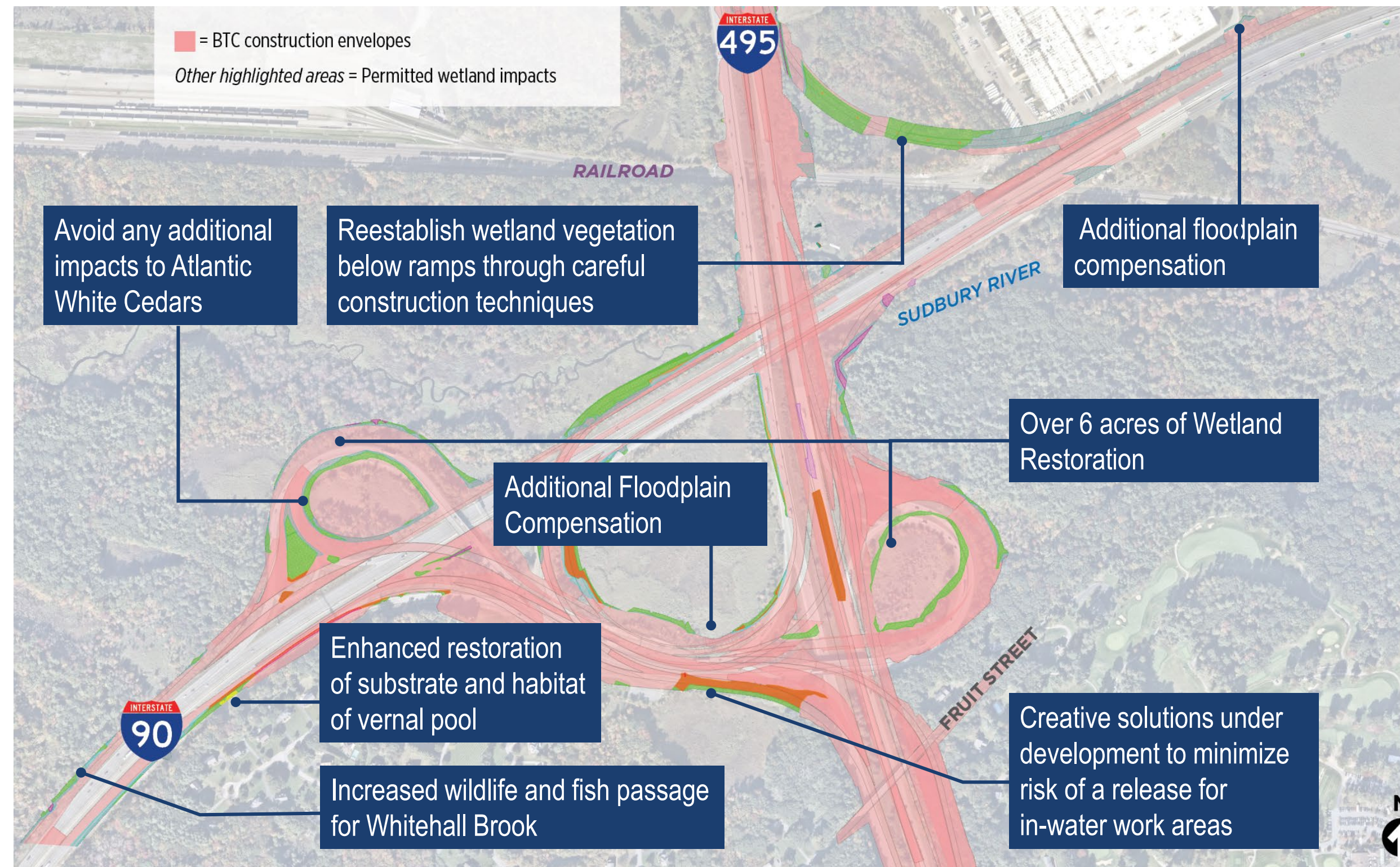
- Replacement of I-495 NB bridge superstructure over Flanders Road
- Constructed with an overbuild to maintain 3-lanes of travel
- Utility work on Flanders Road below I-495





# Environmental Considerations

- Interchange is located near sensitive natural resources
  - Cedar Swamp ACEC
  - Sudbury River
  - Whitehall Brook
  - Surrounding wetlands and floodplains
- Permits were issued during preliminary design
- Permits require continued agency involvement as designs advance
- Permits require construction and post-construction oversight





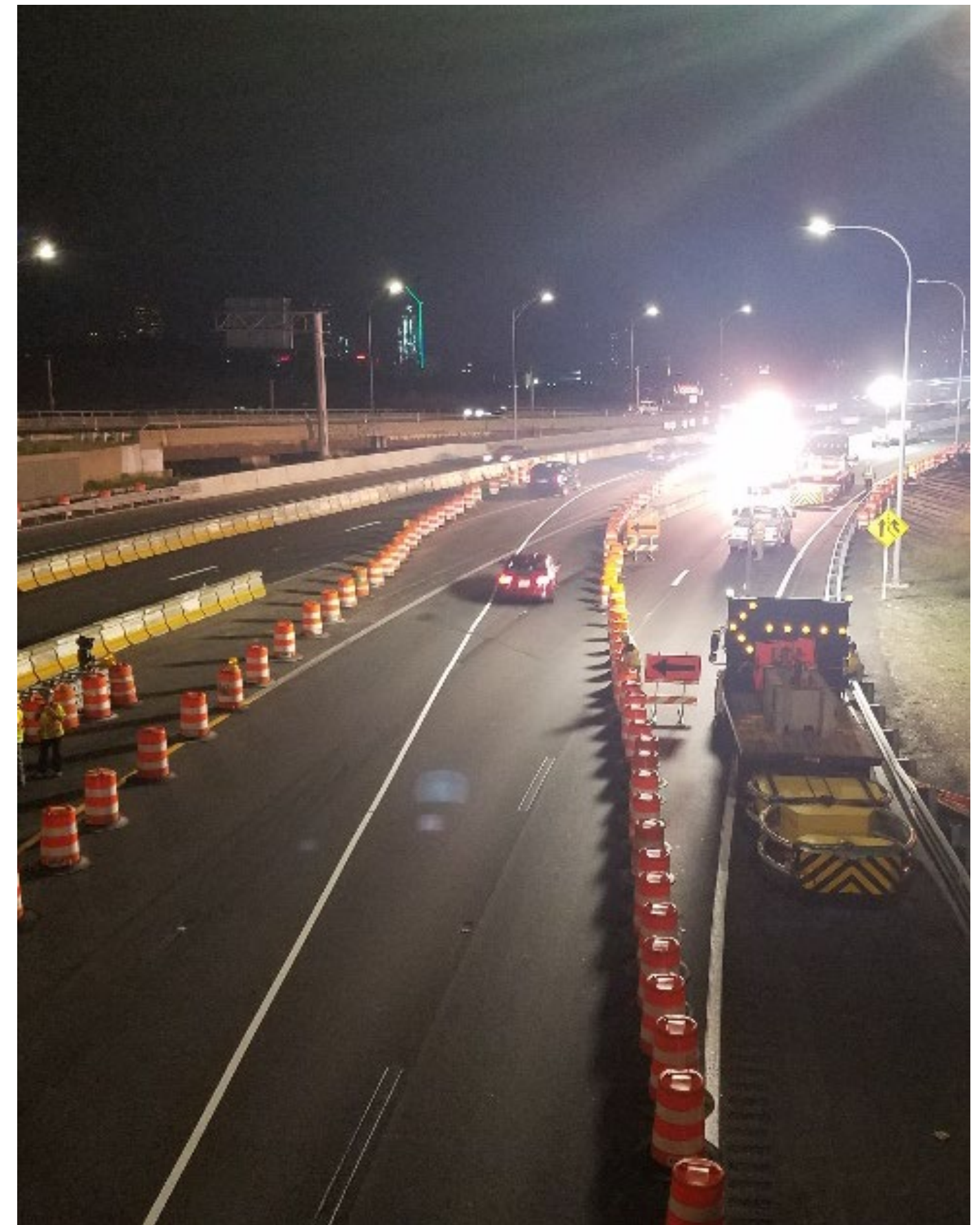
# Traffic & Staging Considerations

## I-90 & I-495

- **Maintain 3 lanes on mainlines, except for short-term closures during approved off-peak hours**
- **Maintain all ramp connections between I-90 and I-495, including along temporary alignments**
- Maintain proper signage and markings
- Provide temporary roadway lighting along ramps
- Provision of safe construction access/egress

## Local Roadways

- Maintain resident and local business access/egress
- *Fruit Street*—maintain 1-lane; 2-way alternating traffic with signal during bridge replacement
- *Flanders Road*—short-term lane closures to support bridge & utility work





# Noise Program

- The Noise Control Plan (NCP) established baseline sound levels (Fall 2022).
- Quarterly noise monitoring will be conducted to ensure construction noise remains in compliance.
- The NCP establishes noise complaint procedures – ***Hot Line 508-676-3551***
- Noise control mitigation measures to be used by the contractor include:
  - Temporary noise barriers or noise curtains
  - Limit use of loud and impact equipment to the daytime as feasible
  - Use of local power grid to reduce generator use
  - Use of self-adjusting backup alarms
  - Use of approved truck haul routes (I-90, I-495 and Route 9)







**Fruit Street**



## Fruit Street Overview

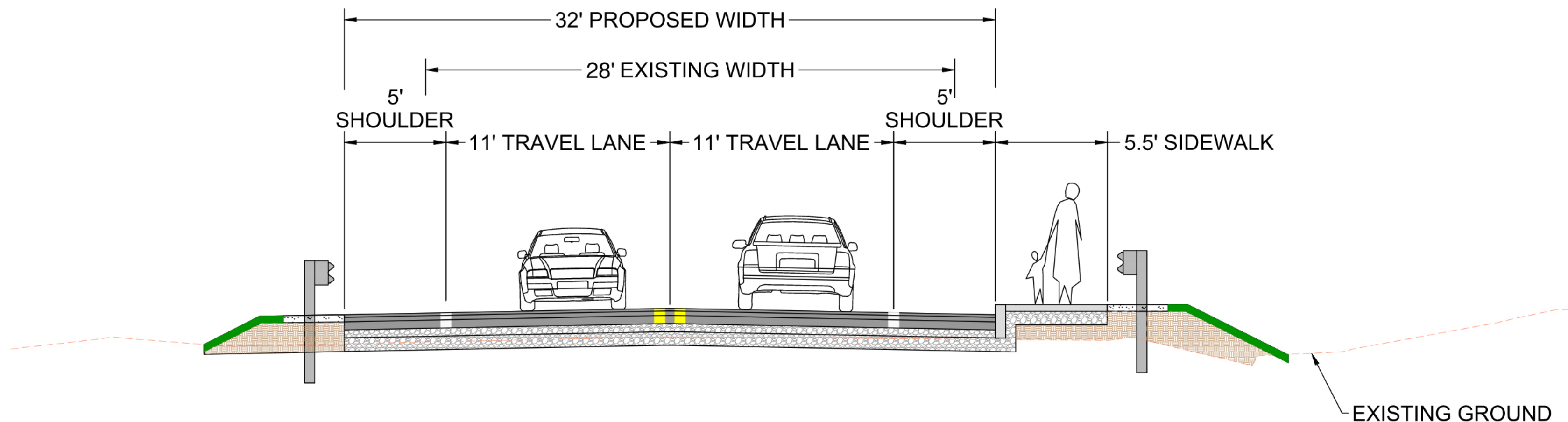
- Replacement of Fruit Street bridge over I-495
- Will be completed in 2 major stages over 659 days (22 Months)
- Includes new ADA compliant sidewalk along the southern side of the roadway
- Roadway widened from 28 feet to 32 feet
- Utilities to be relocated to new bridge over I-495
- New trees and plantings are included





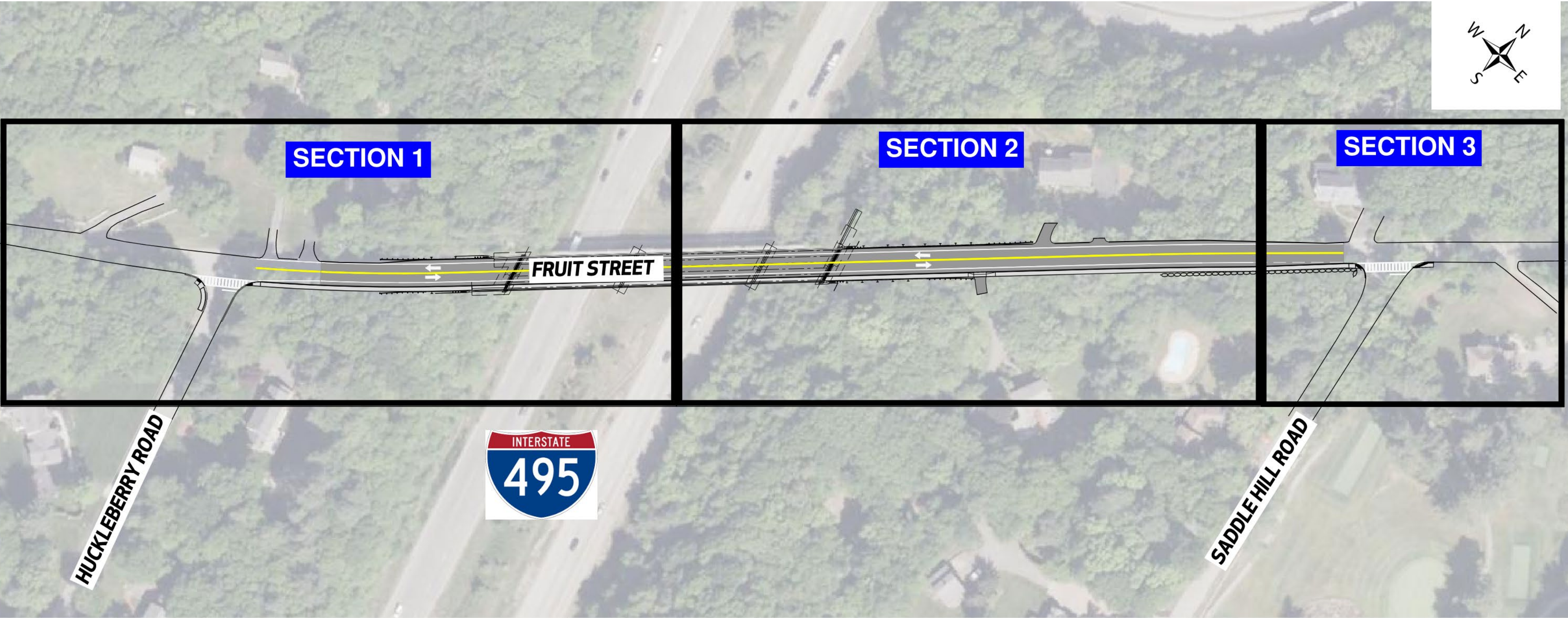
## Fruit Street—Typical Section

- Existing Roadway is 28 feet wide; Proposed Roadway is 32 feet wide
- Additional widening to provide consistent shoulder in project limits
  - The shoulder can accommodate bicycles
- ADA Compliant Sidewalk added throughout project limits connecting Huckleberry Road to Saddle Hill Road

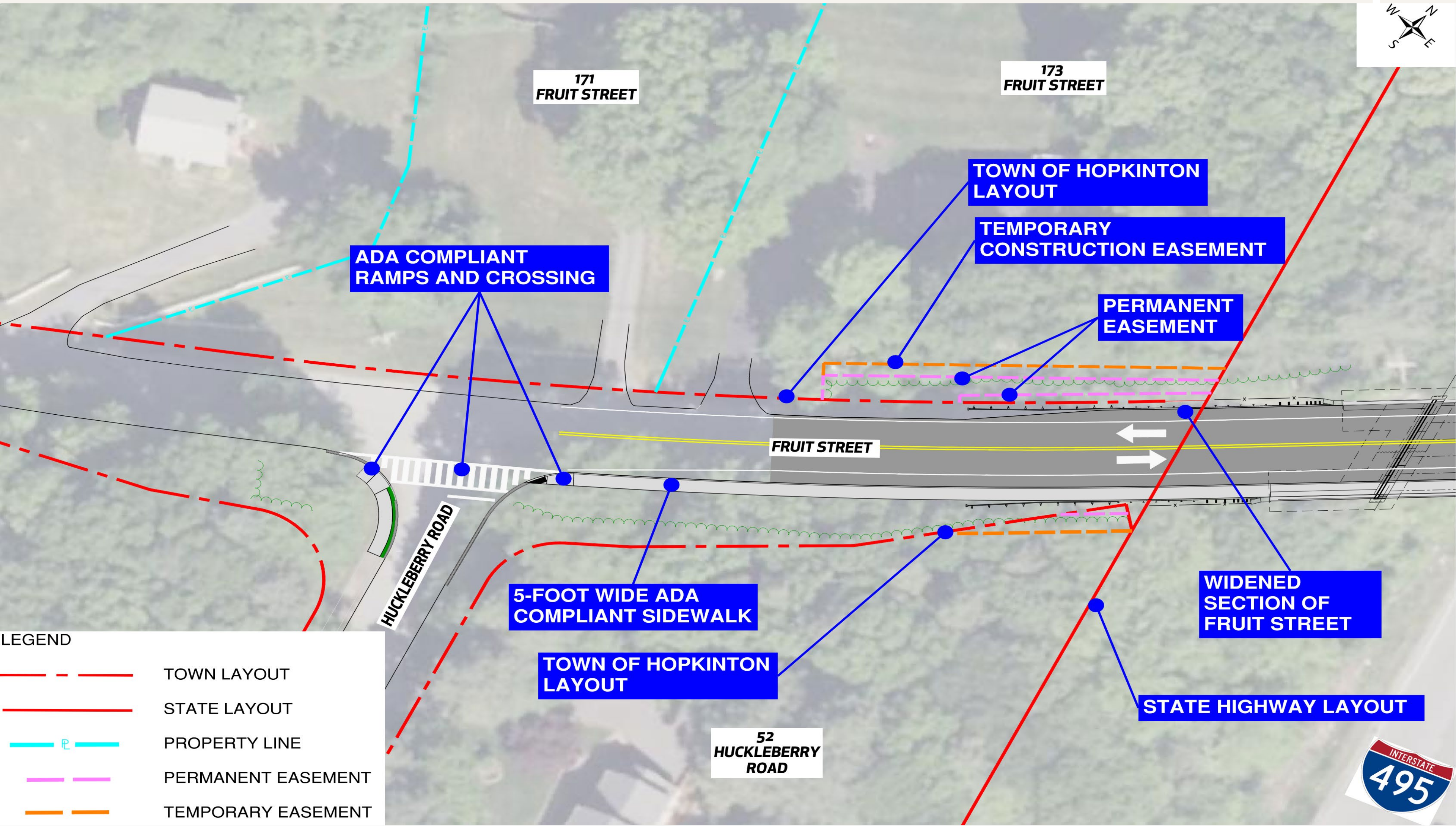




# Fruit Street—Proposed Conditions



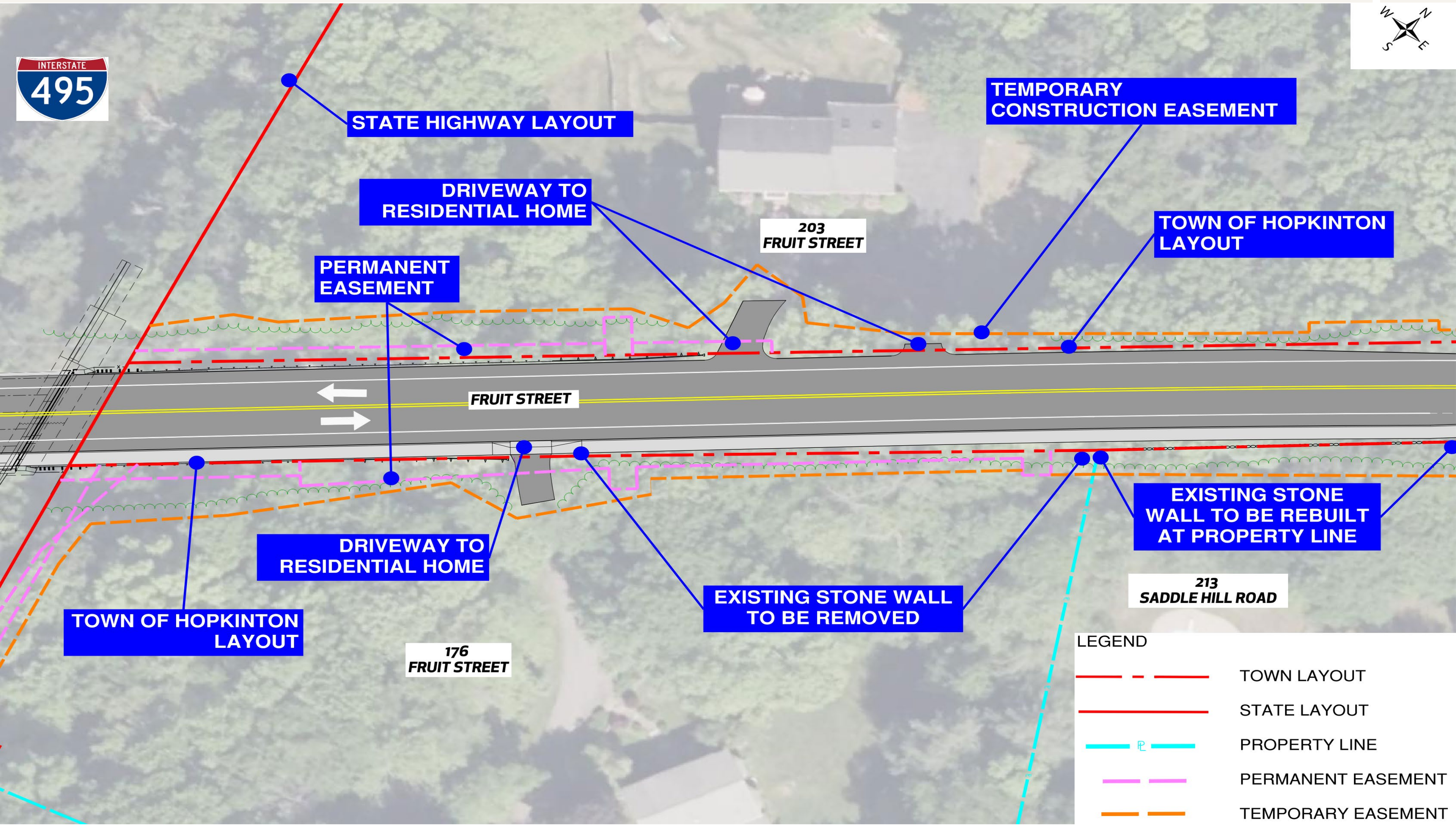




LEGEND

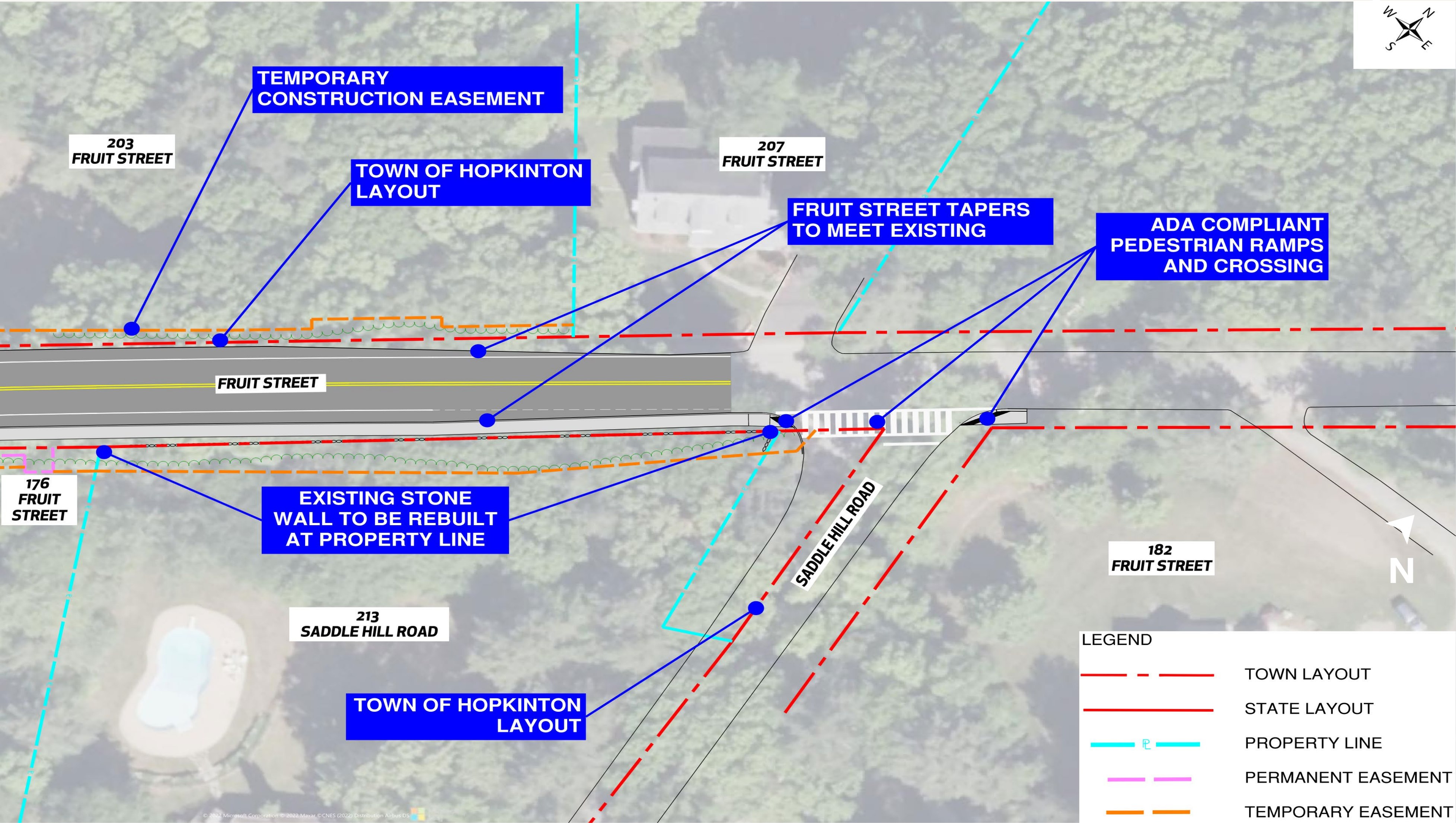
	TOWN LAYOUT
	STATE LAYOUT
	PROPERTY LINE
	PERMANENT EASEMENT
	TEMPORARY EASEMENT





LEGEND	
	TOWN LAYOUT
	STATE LAYOUT
	PROPERTY LINE
	PERMANENT EASEMENT
	TEMPORARY EASEMENT

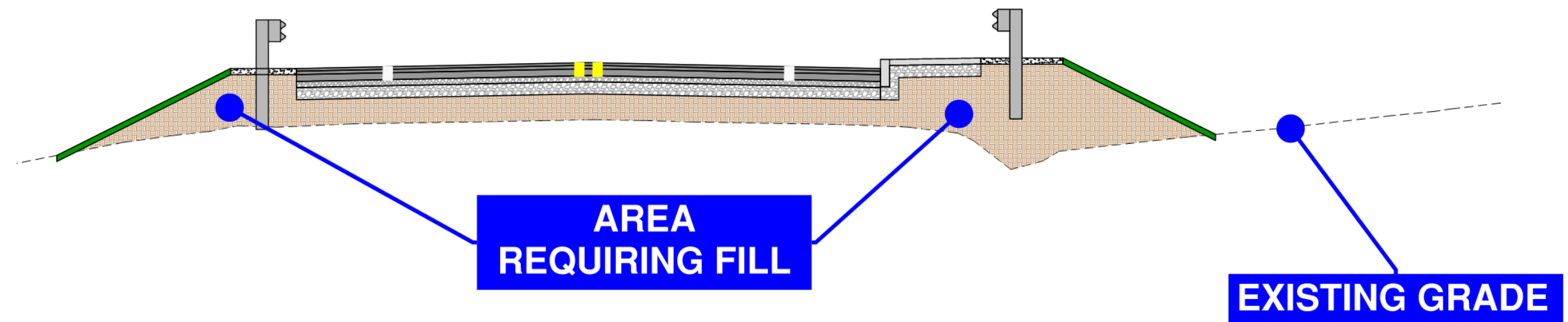




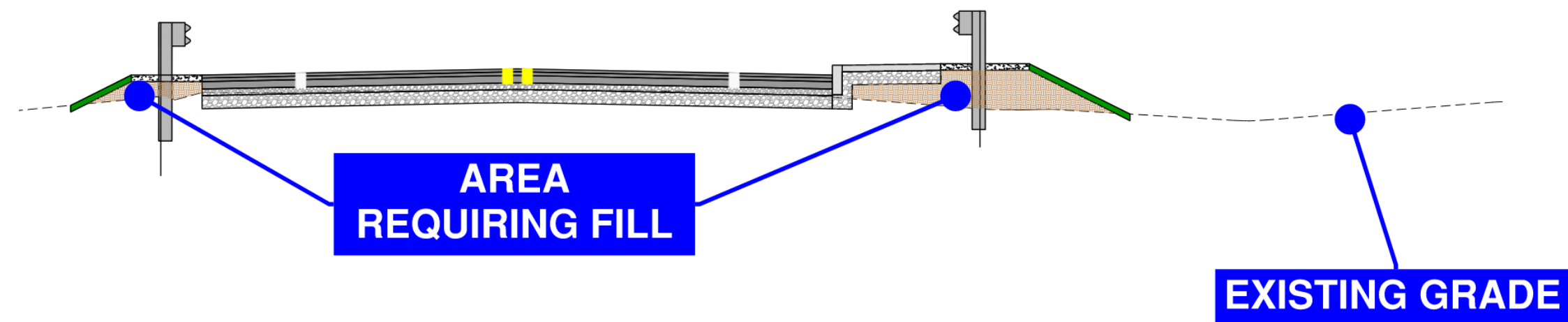


## Fruit Street— Change in Elevation

- East of the bridge, Fruit Street raised approximately 3.5 feet (occurs at proposed bridge)
- Fruit Street roadway raised approximately 2 feet over 150 feet east of the bridge
- Driveways for 176 Fruit Street and 203 Fruit Street to be repaved to meet proposed grade as needed.
- Maximum grade increase will occur at the east end of the bridge
- West of the bridge, Fruit Street raised 2 feet (occurs at proposed bridge)



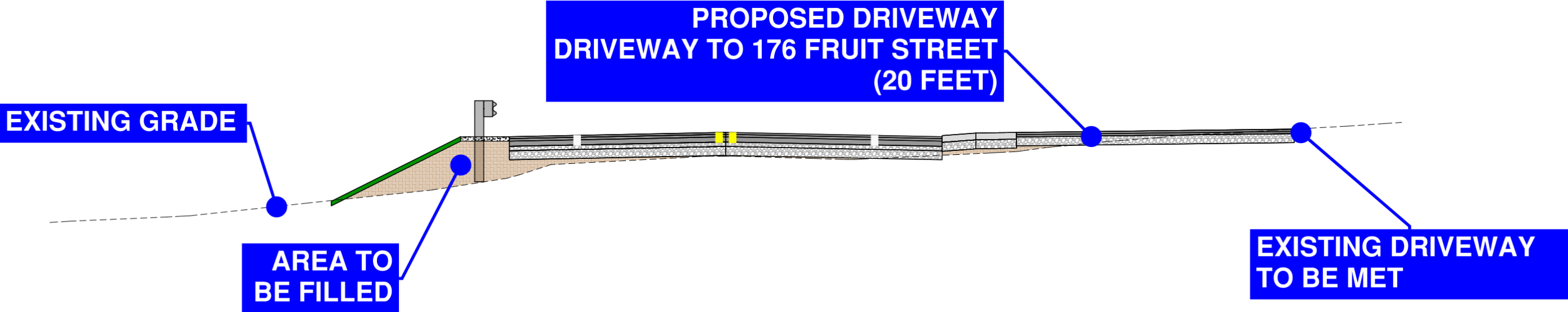
**East of the Bridge**



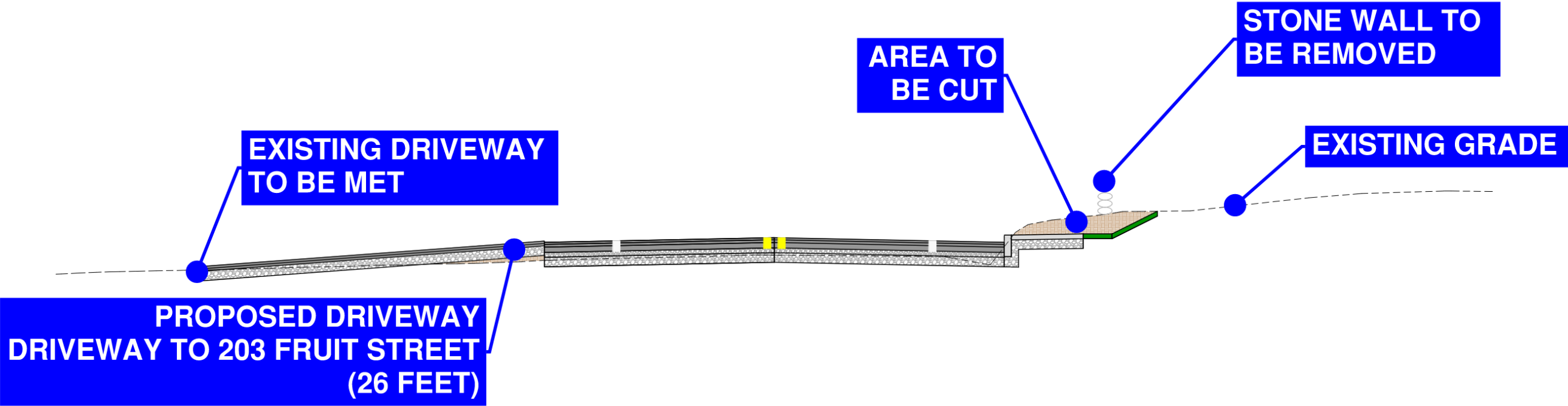
**West of the Bridge**



# Fruit Street—Residential Driveways



176 Fruit Street



203 Fruit Street



## Fruit Street Traffic & Staging Considerations

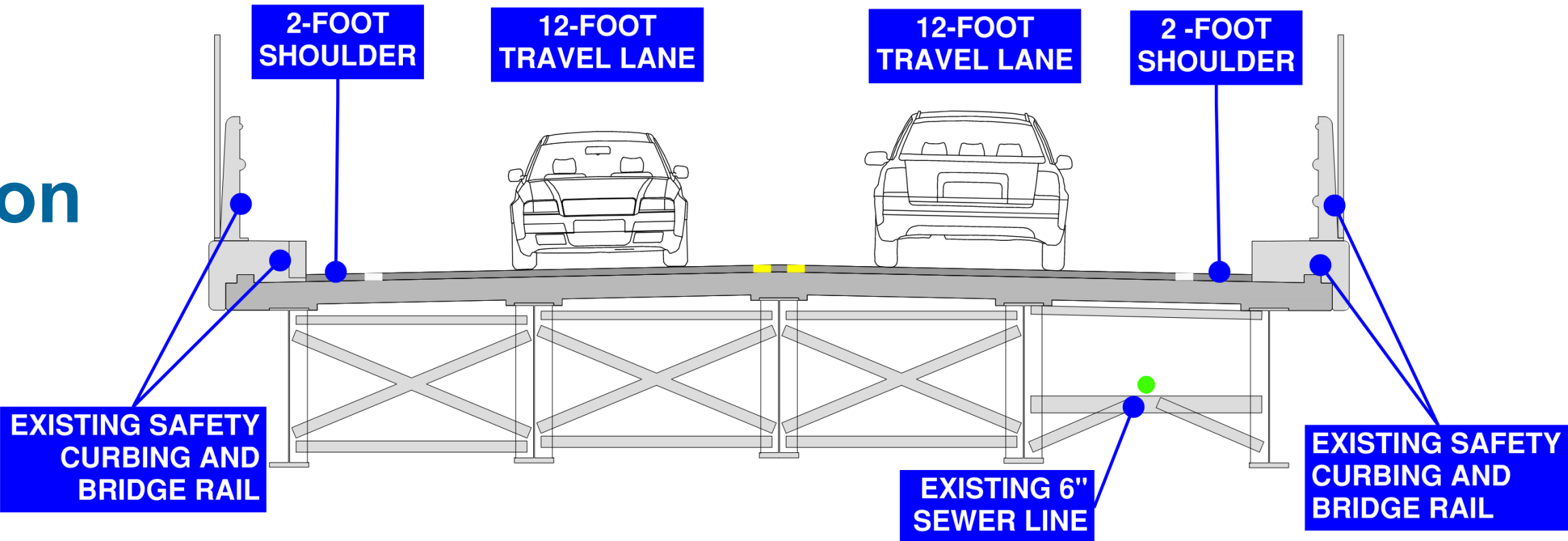
- Fruit Street bridge to be completed in two primary phases
- Two-way alternating traffic to be maintained at all times through use of a temporary traffic signal
- Signal operation will utilize video detection units as well as emergency pre-emption control
- No pedestrian or bicyclist access during construction



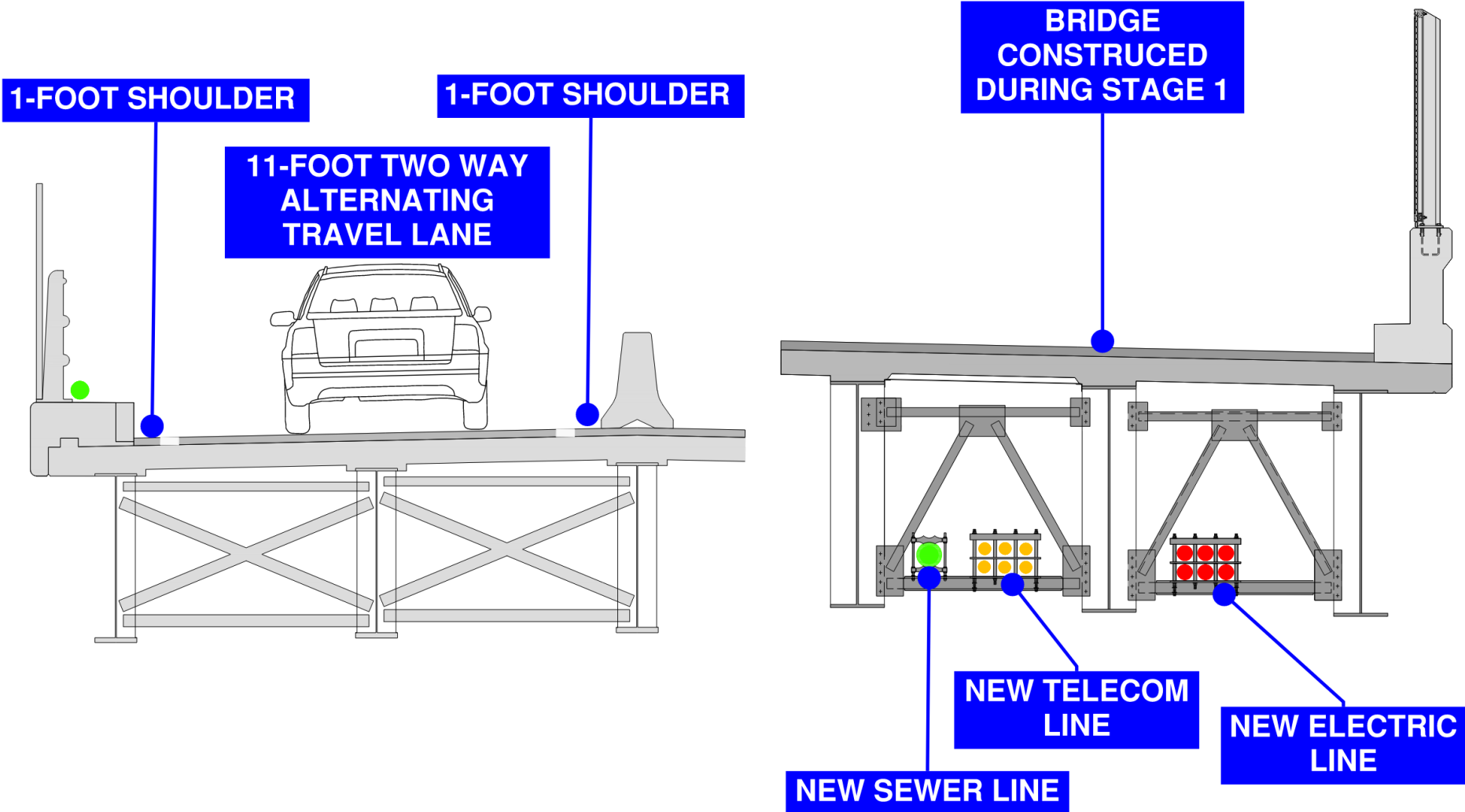


# Typical Sections showing Staged Construction (Stage 1)

Existing Bridge Section



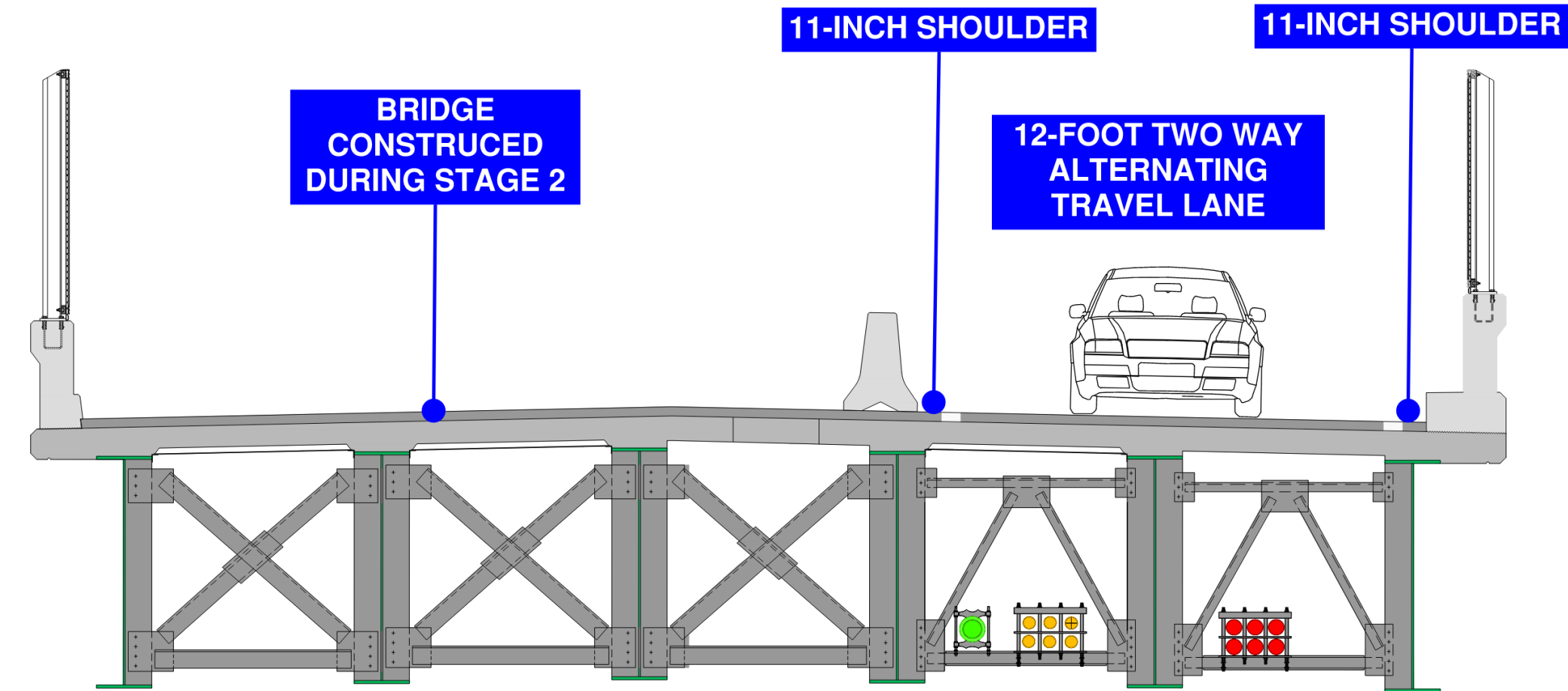
Stage 1 Bridge Construction



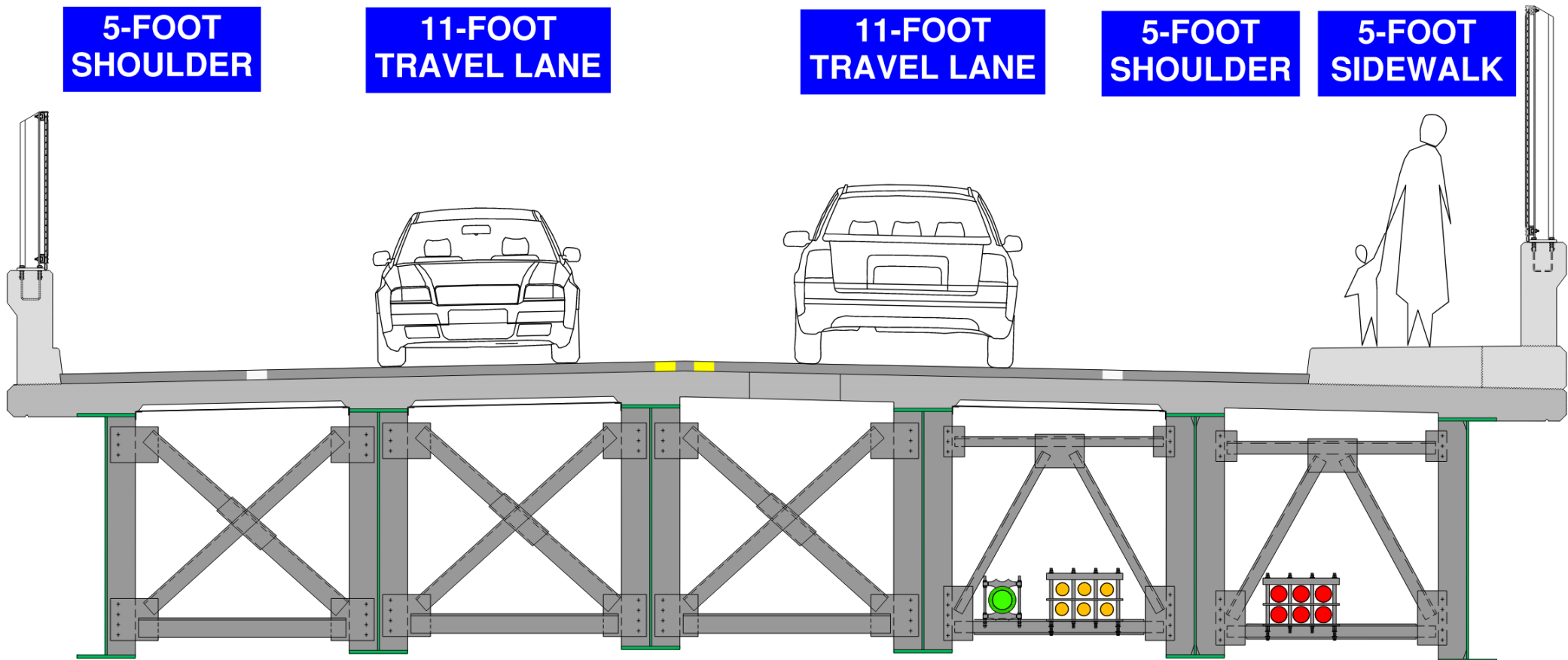


# Typical Sections showing Staged Construction (Stage 2)

Stage 2 Bridge Construction



New Fruit Street Bridge





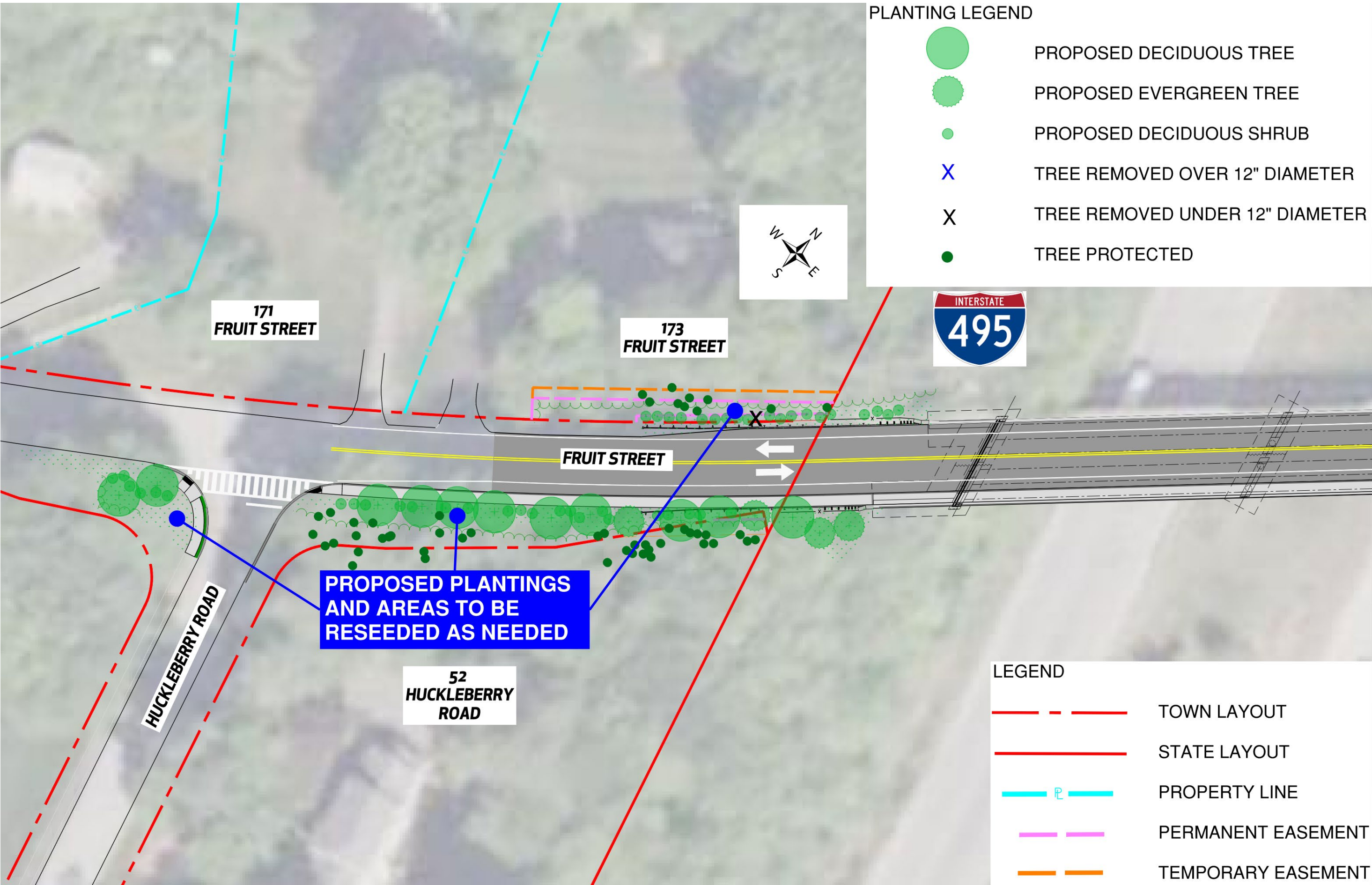
## Fruit Street Planting Restoration (Overview)

- Affected areas to be loamed and reseeded within construction easements
- 171 new plants to be placed along Fruit Street to provide landscape restoration
  - 44 of which are deciduous trees
  - 24 of which are evergreen trees
  - 103 of which are deciduous shrubs
- 81 trees along Fruit Street currently to be protected
- 78 trees less than 12" diameter to be removed along Fruit Street
- 24 trees over 12" diameter to be removed
- Trees affected by sidewalk construction and roadway widening



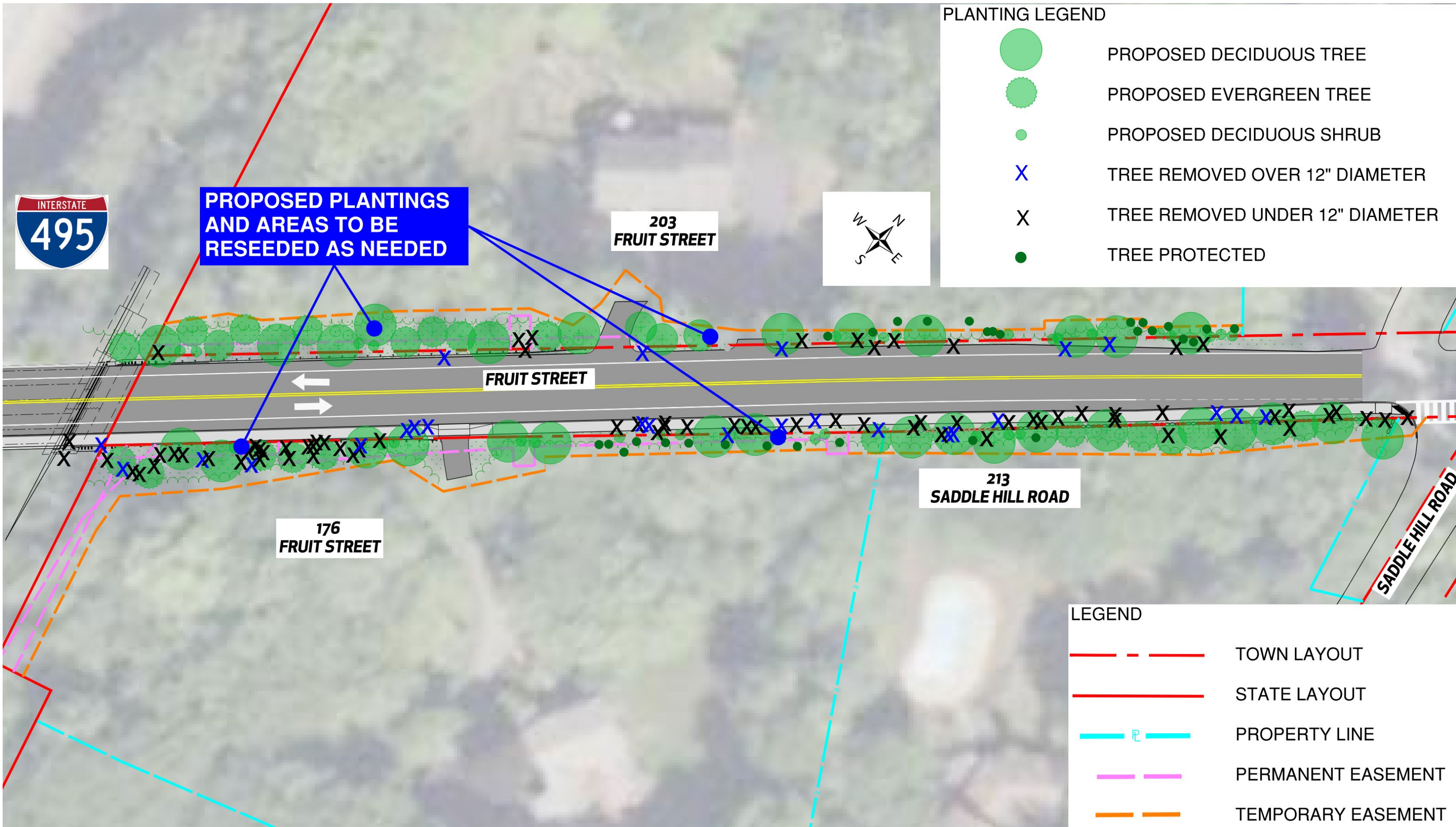


# Fruit Street Planting Restoration – East Side



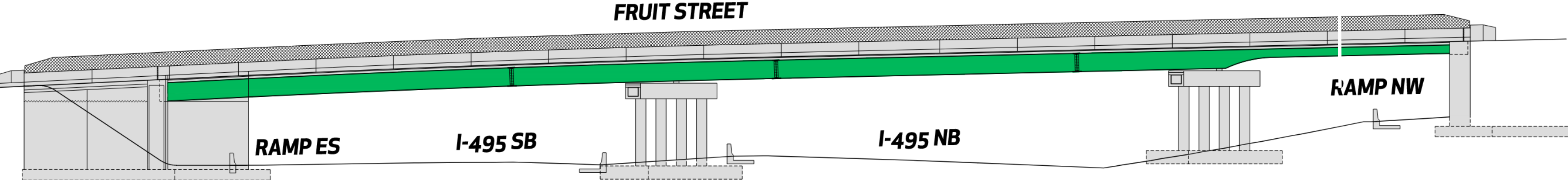


# Fruit Street Planting Restoration – West Side





# Bridge Elevation





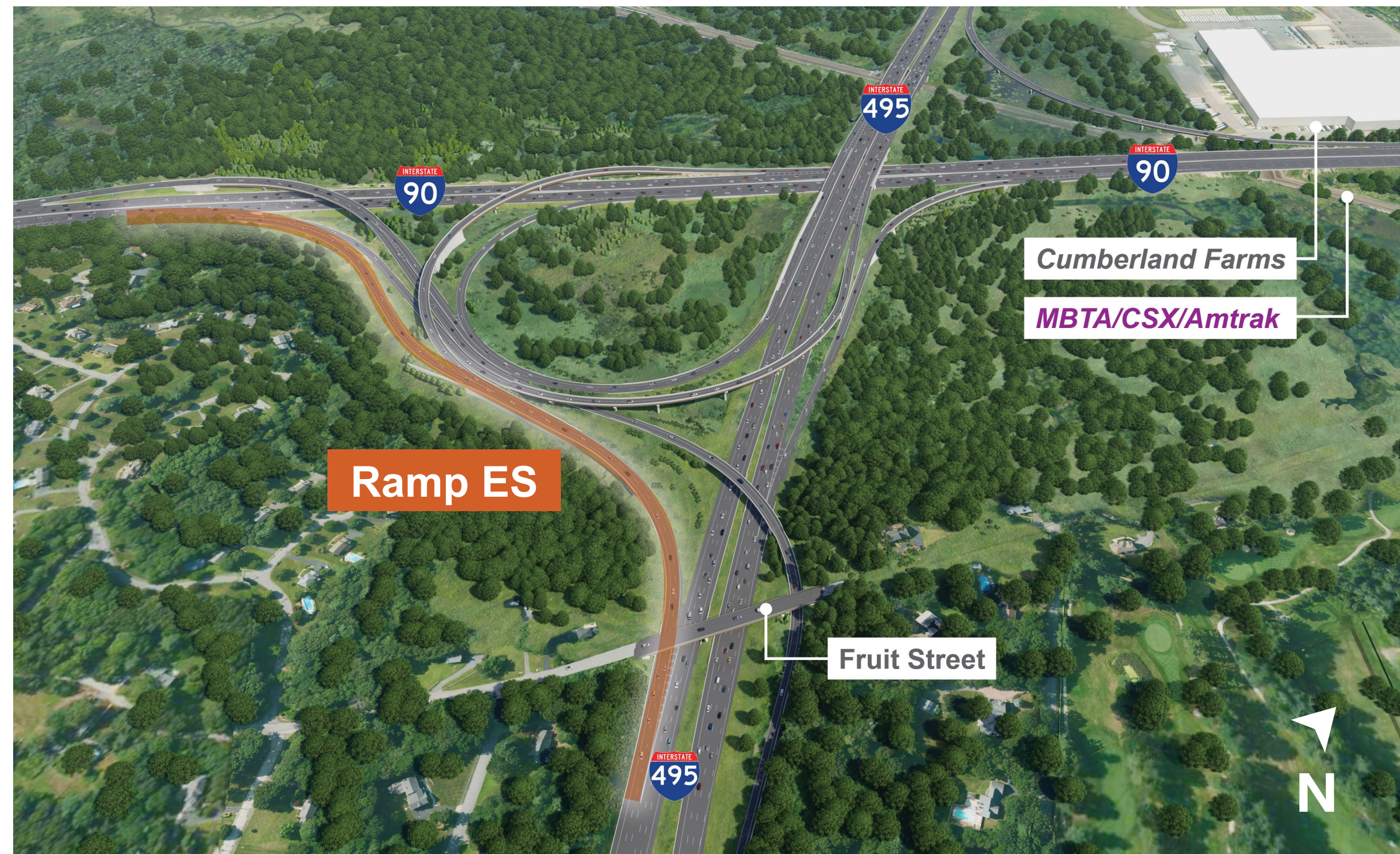


Ramp ES/SE



## Ramp ES

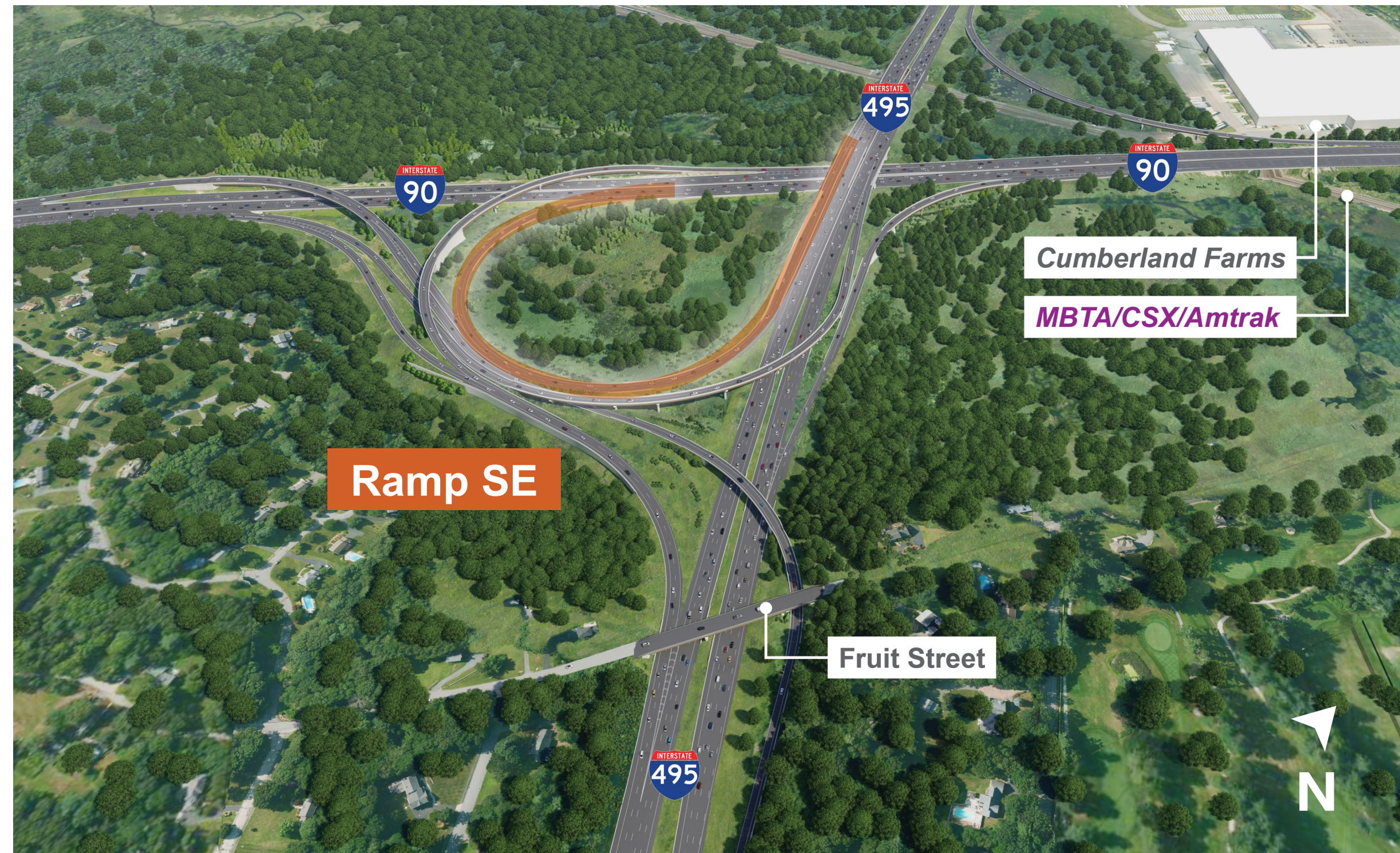
- New direct ramp provided between I-90 EB and I-495 SB
- Part of a 2-lane off-ramp from I-90 EB (splits to Ramp ES and Ramp EN)
- Combines with Ramp WS to provide 2-lane on-ramp to I-495 SB





## Ramp SE

- New loop ramp from I-495 SB to I-90 EB
- Part of a 2-lane off-ramp (splits to Ramp SE and Ramp SW)
- Enter I-90 EB as a single lane on-ramp





## Temporary ES/SE Construction

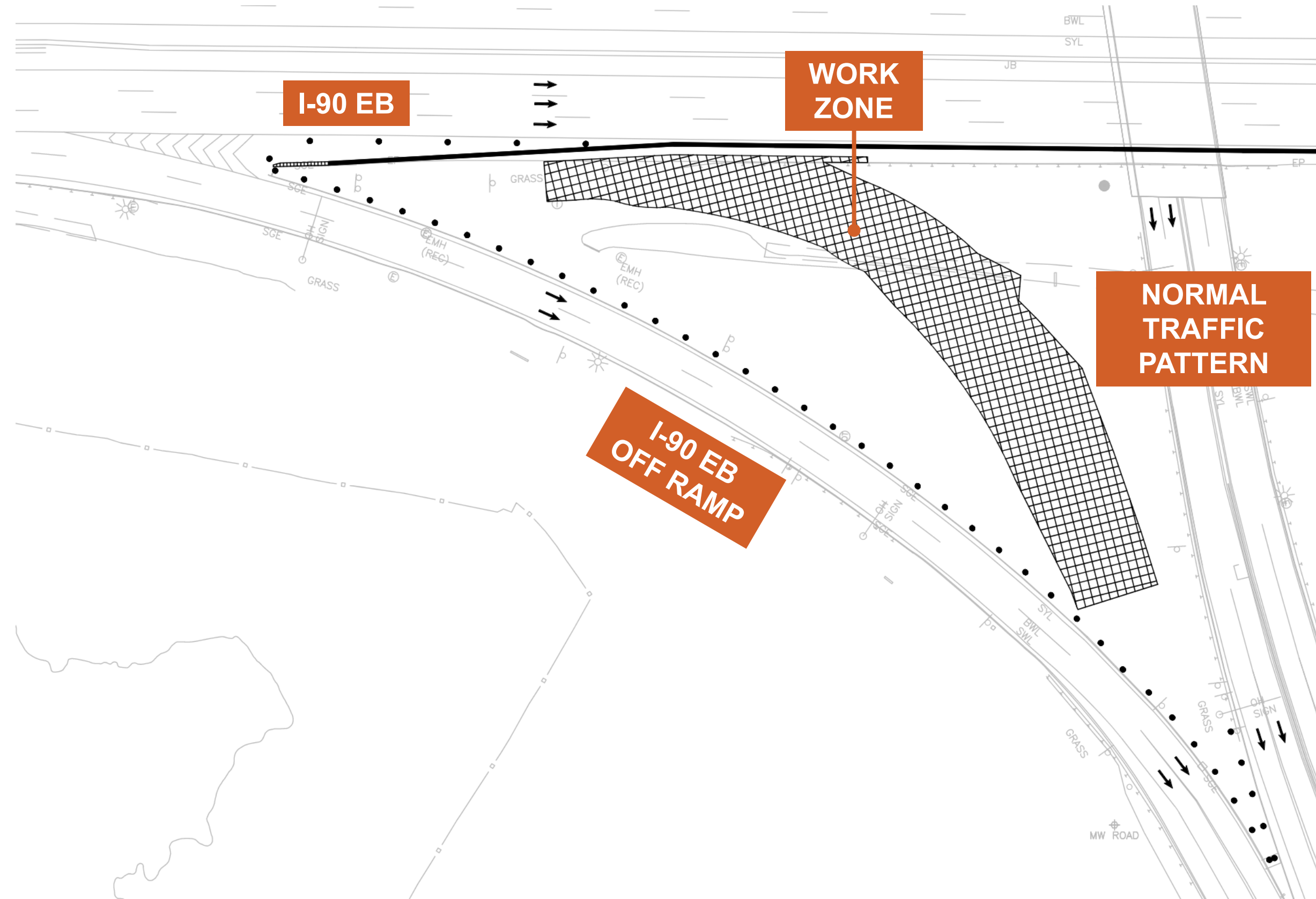
- Temporary I-90 EB off-ramp to I-495 SB to be constructed to allow construction of permanent I-90 EB off-ramp to I-495 SB
- Temporary modifications to I-90 EB on-ramp from I-495 (NB & SB) to facilitate construction of future ramps





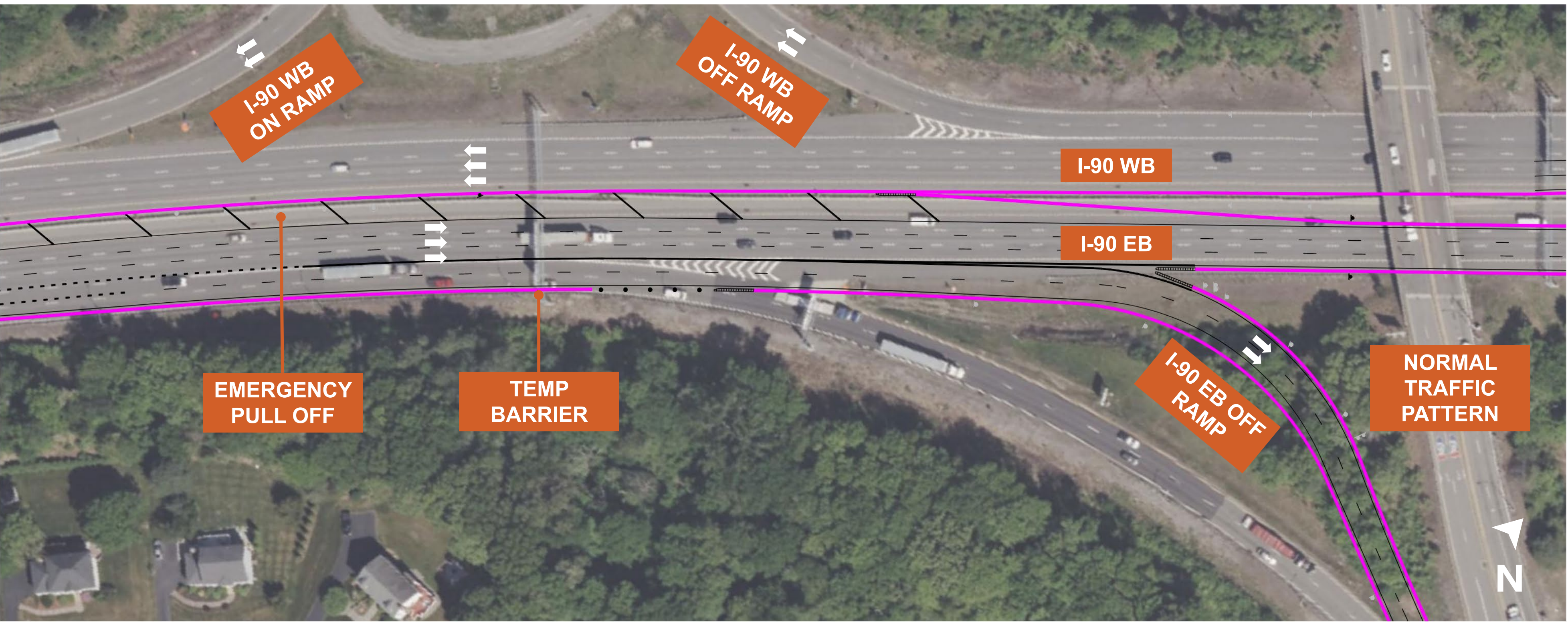
## Temporary I-90 Eastbound Off Ramp

- Work will be happening in infield between existing I-90 EB Off ramp and the existing ramp bridge over I-90.
- Temporary lane closures on existing ramp overnight





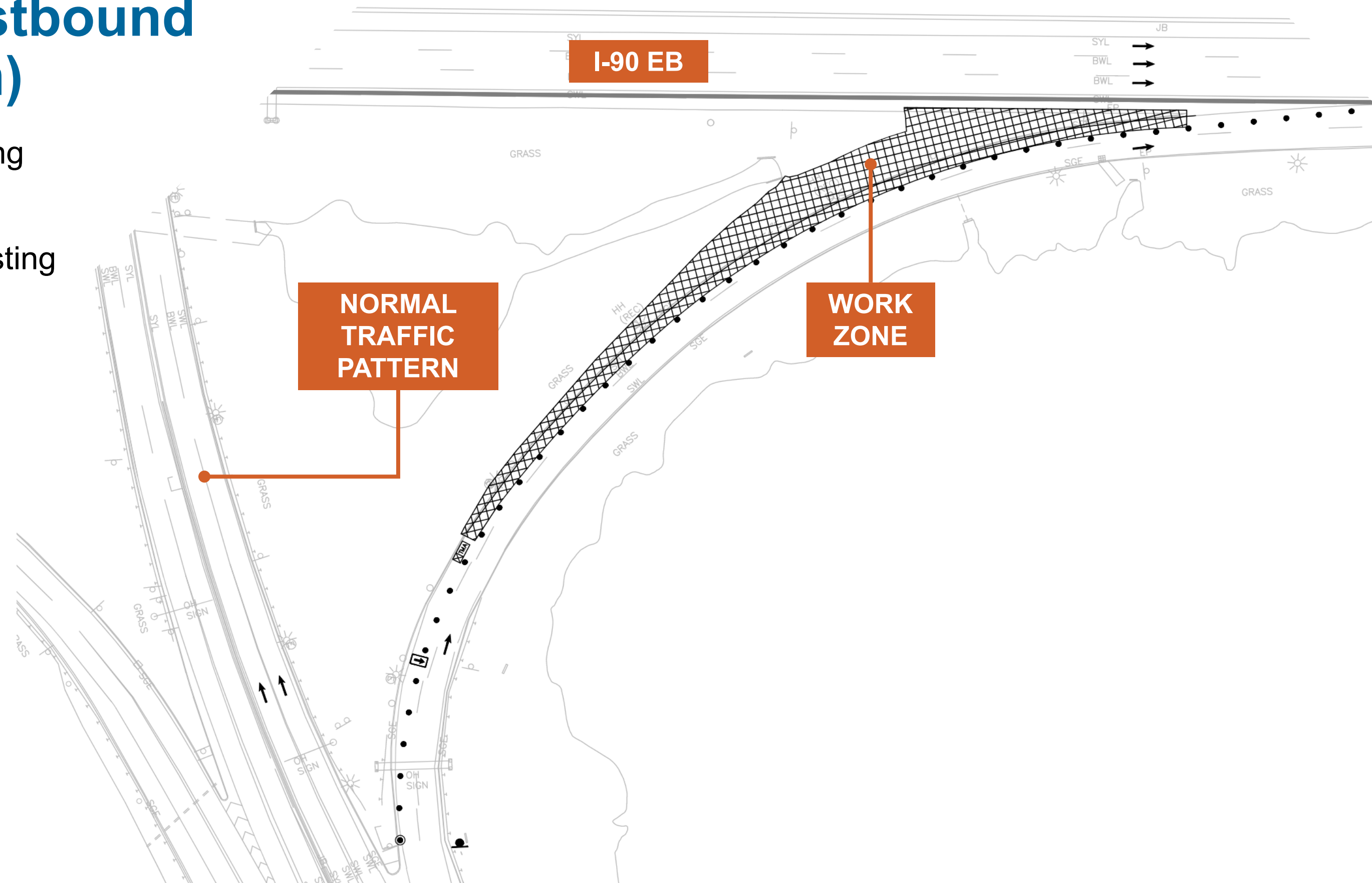
# Temporary I-90 Eastbound Off Ramp (Map)





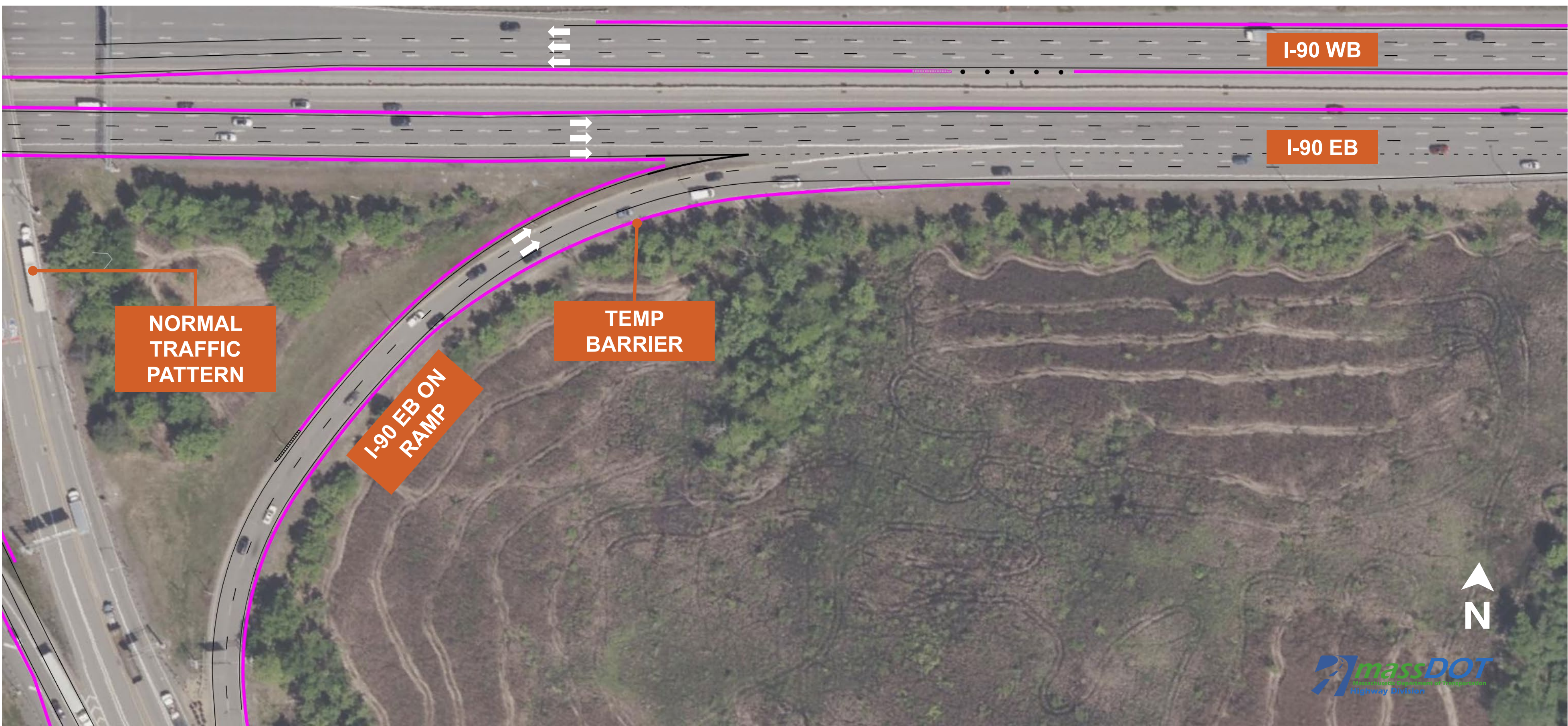
# Temporary I-90 Eastbound On Ramp (Diagram)

- Minor widening to west of existing ramp
- Temporary lane closures on existing ramp overnight





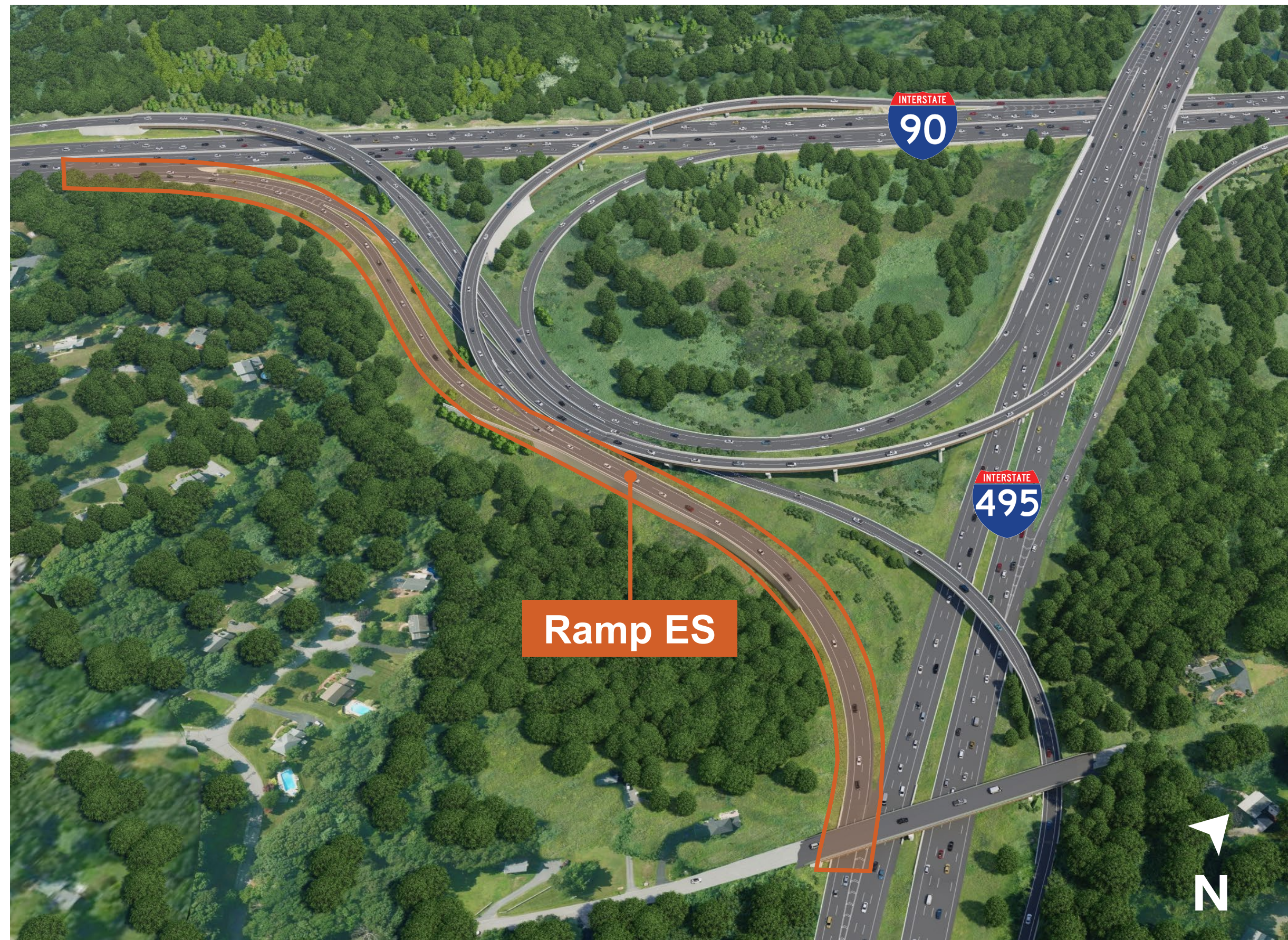
# Temporary I-90 Eastbound On Ramp





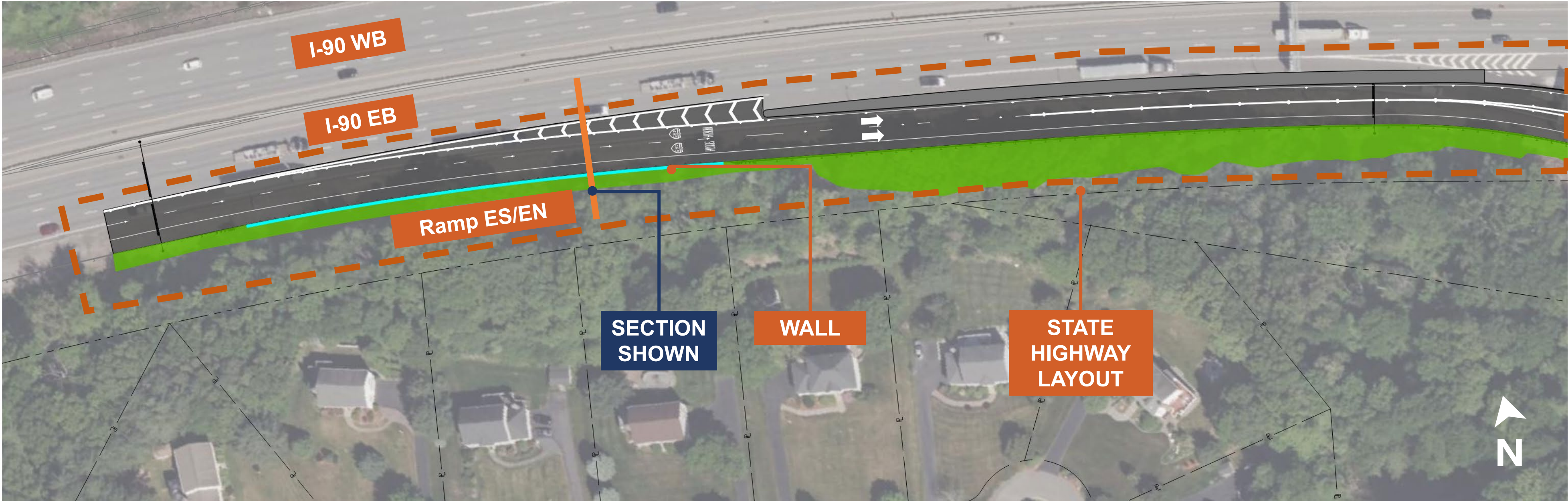
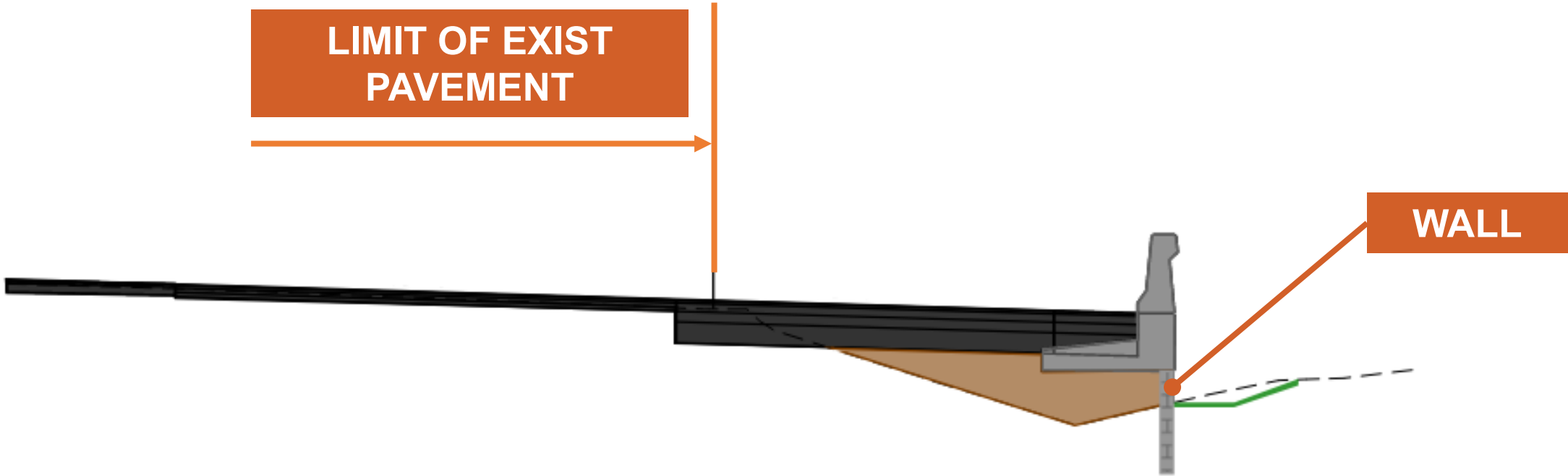
## Proposed Ramp ES

- Future Ramp ES ramp will be constructed from I-90 EB to I-495 SB
- I-90 EB off-ramp traffic will use temporary ramp during construction
- Includes retaining wall construction to protect environmental resource areas
- Includes reconstruction of Culvert 10



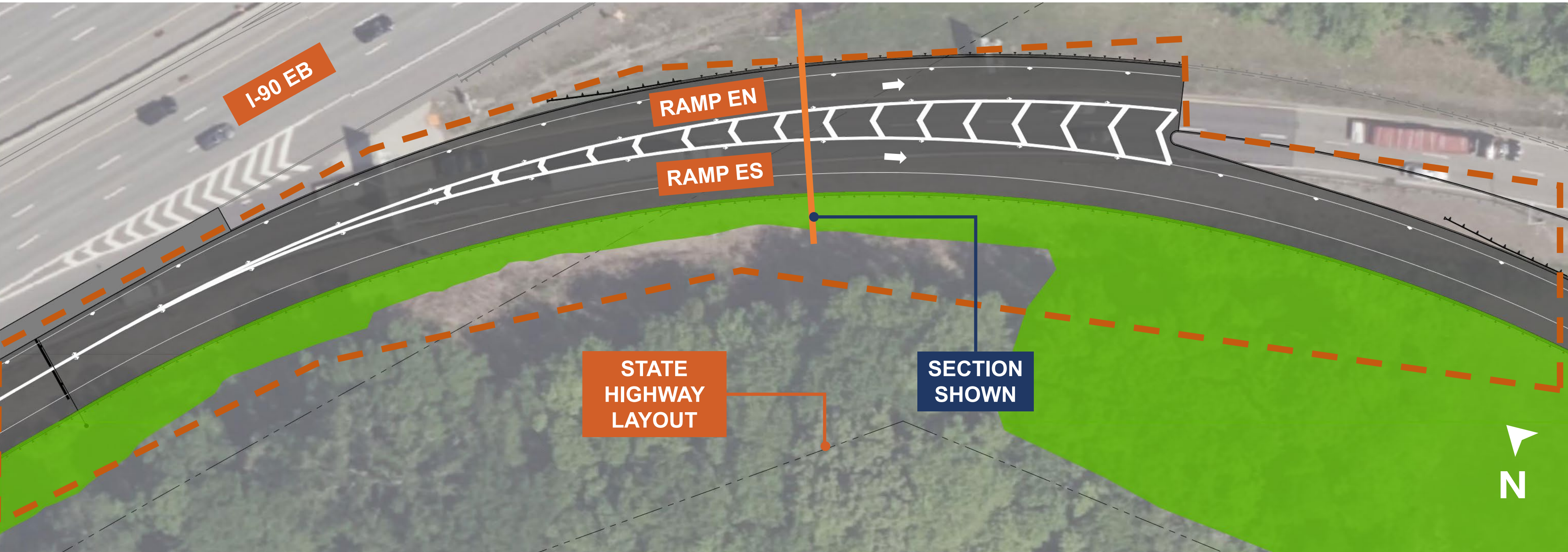


# Proposed Ramp ES I-90 Deceleration



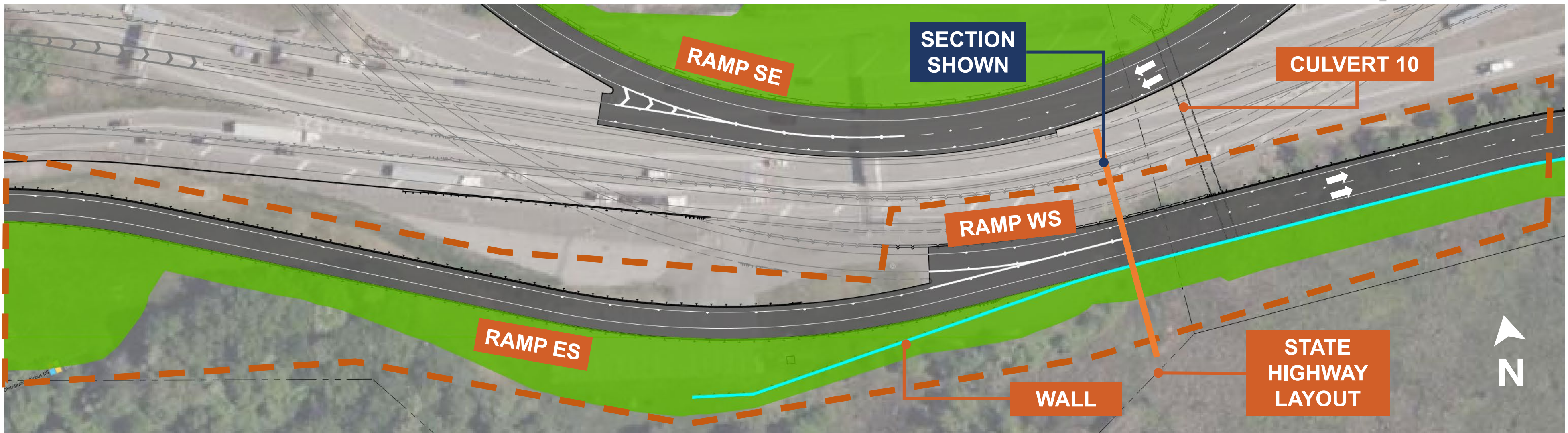
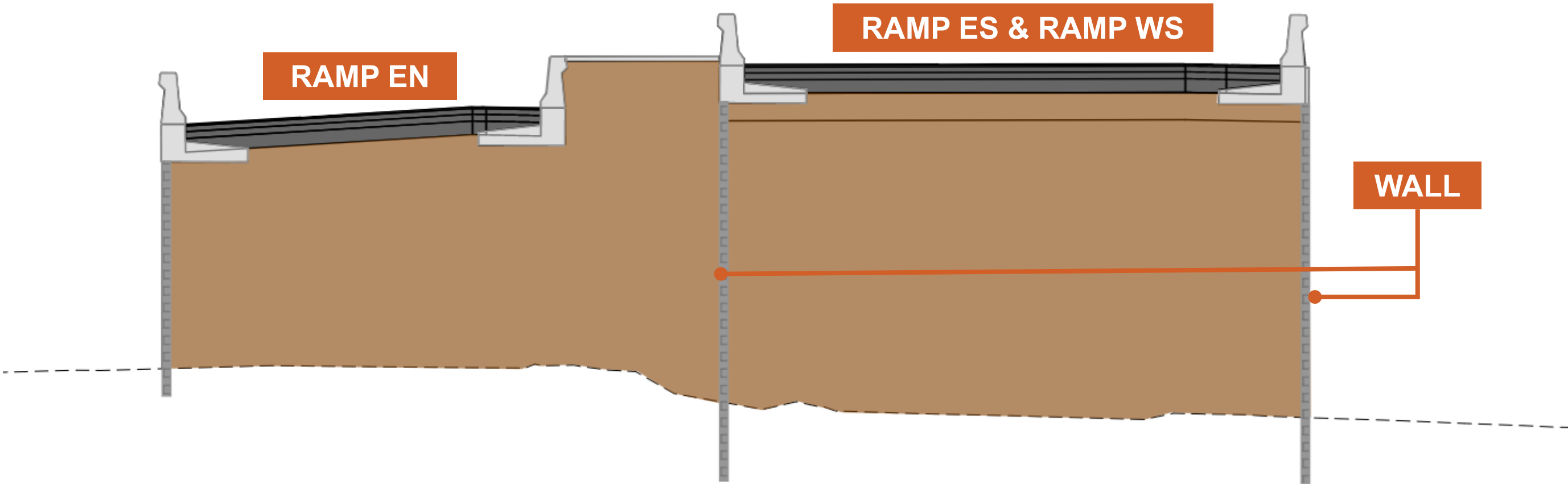


# Proposed Ramp ES Ramp ES/EN Split



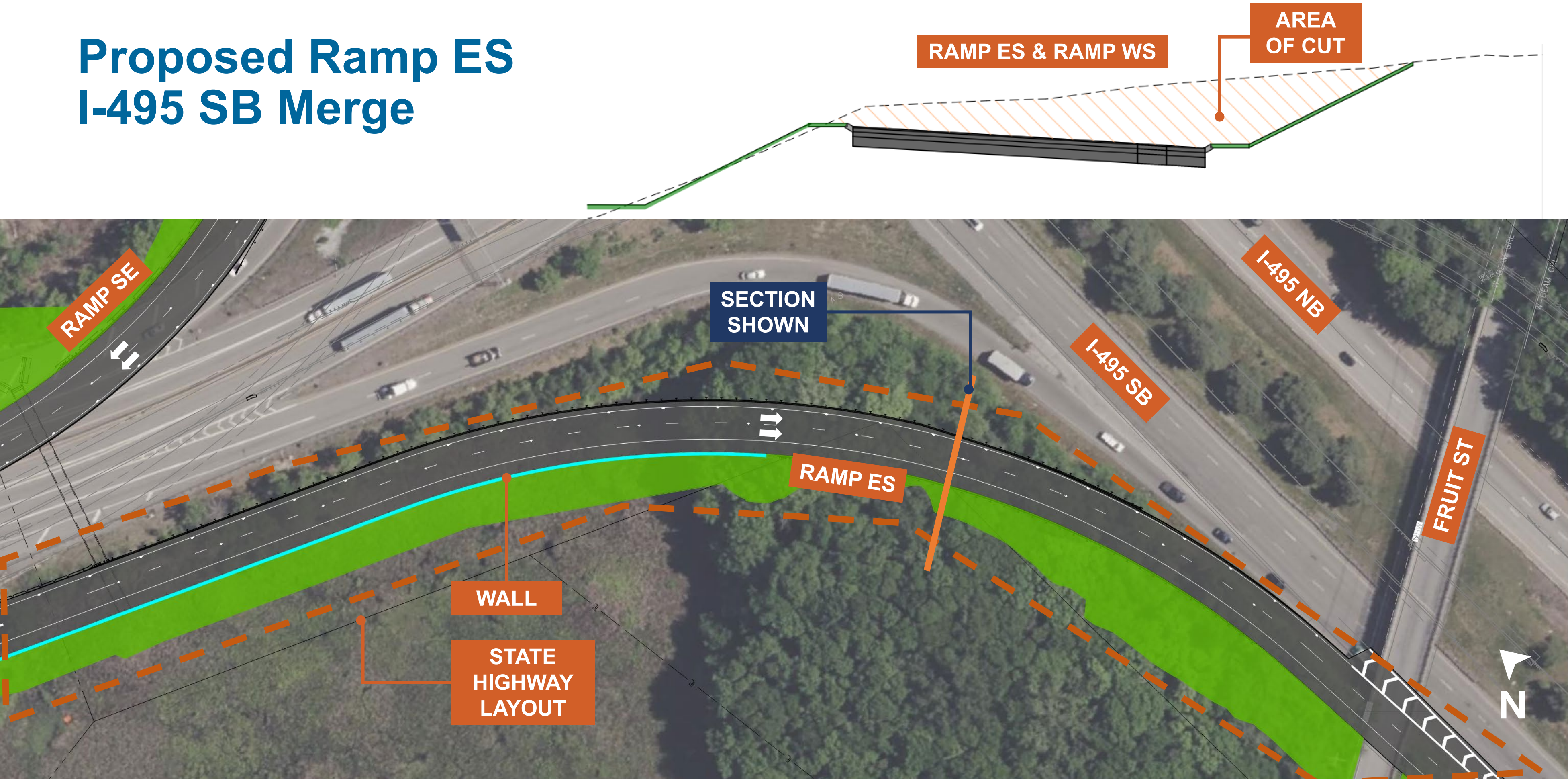


# Proposed Ramp Toll Plaza Area



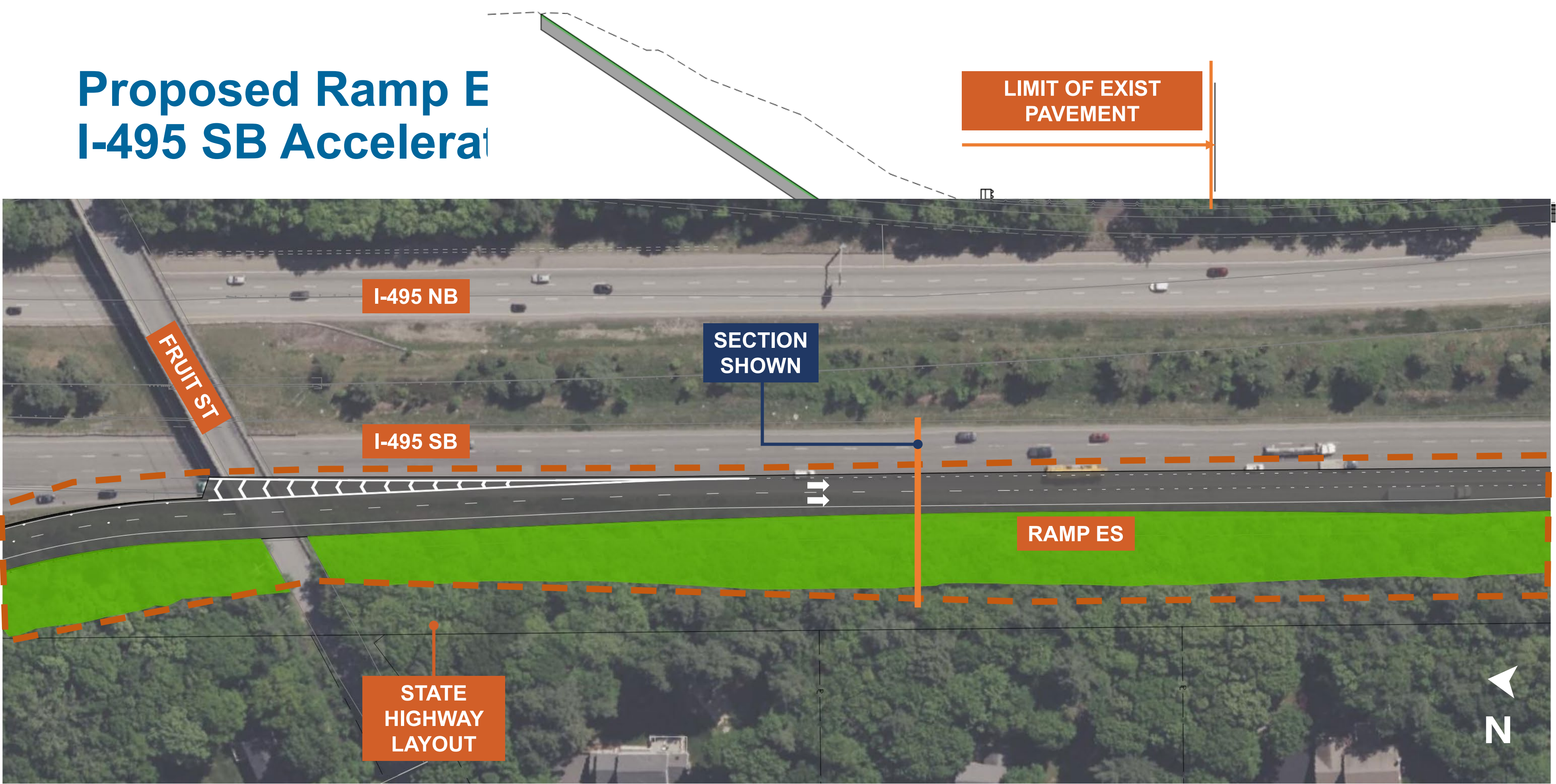


# Proposed Ramp ES I-495 SB Merge





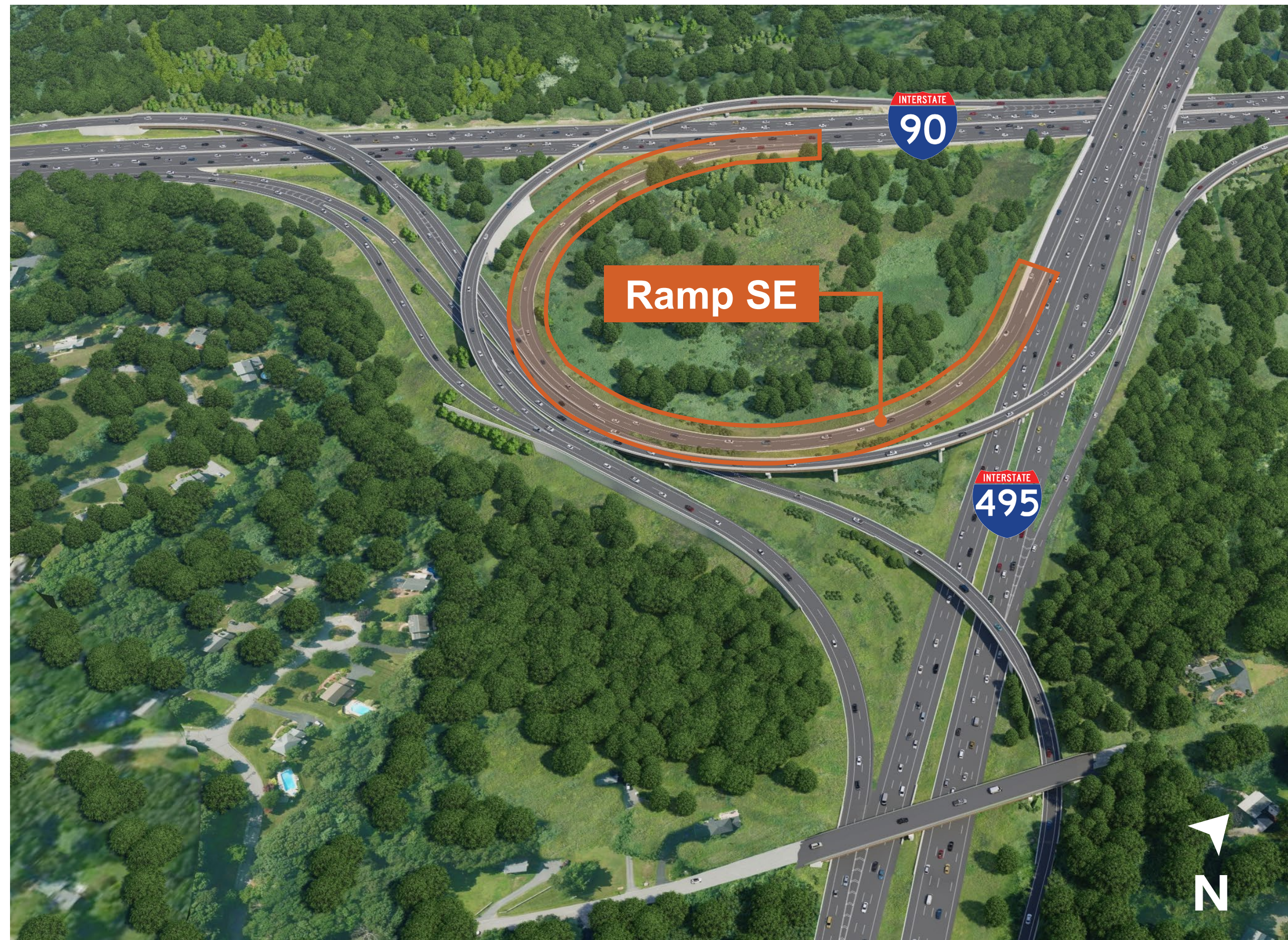
# Proposed Ramp E I-495 SB Acceleration





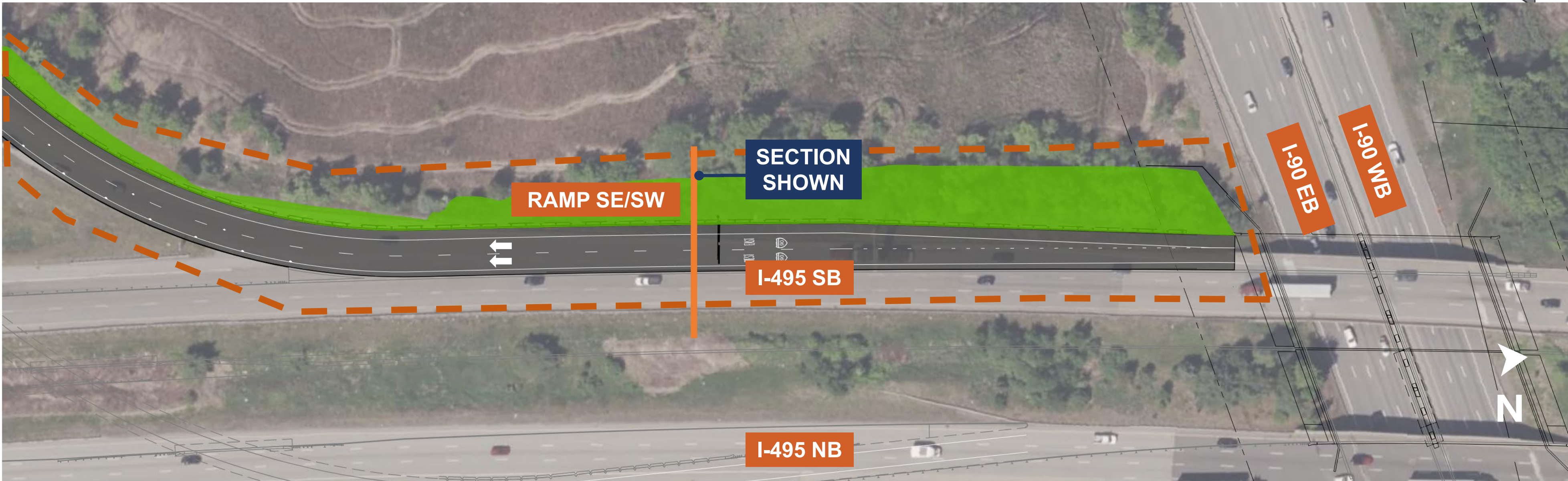
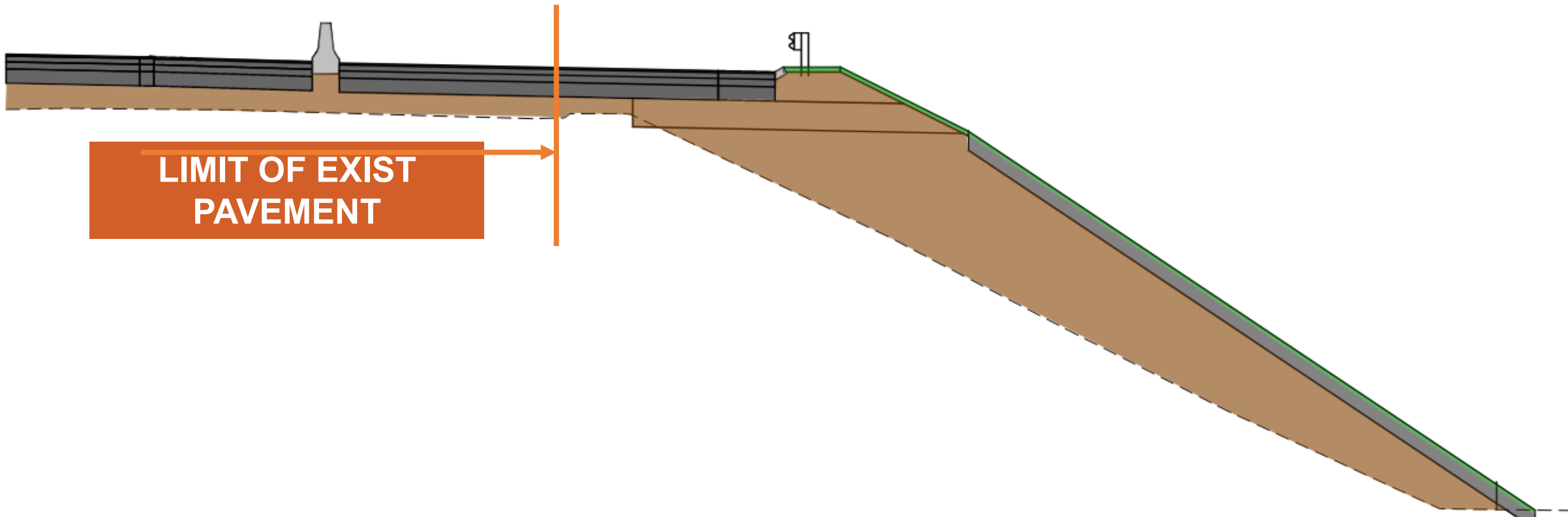
## Proposed Ramp SE

- Works includes commencement of work on future Ramp SE ramp from I-495 SB to I-90 EB
- Main area of work will be focused on new retaining wall between the old toll plaza and I-90 EB



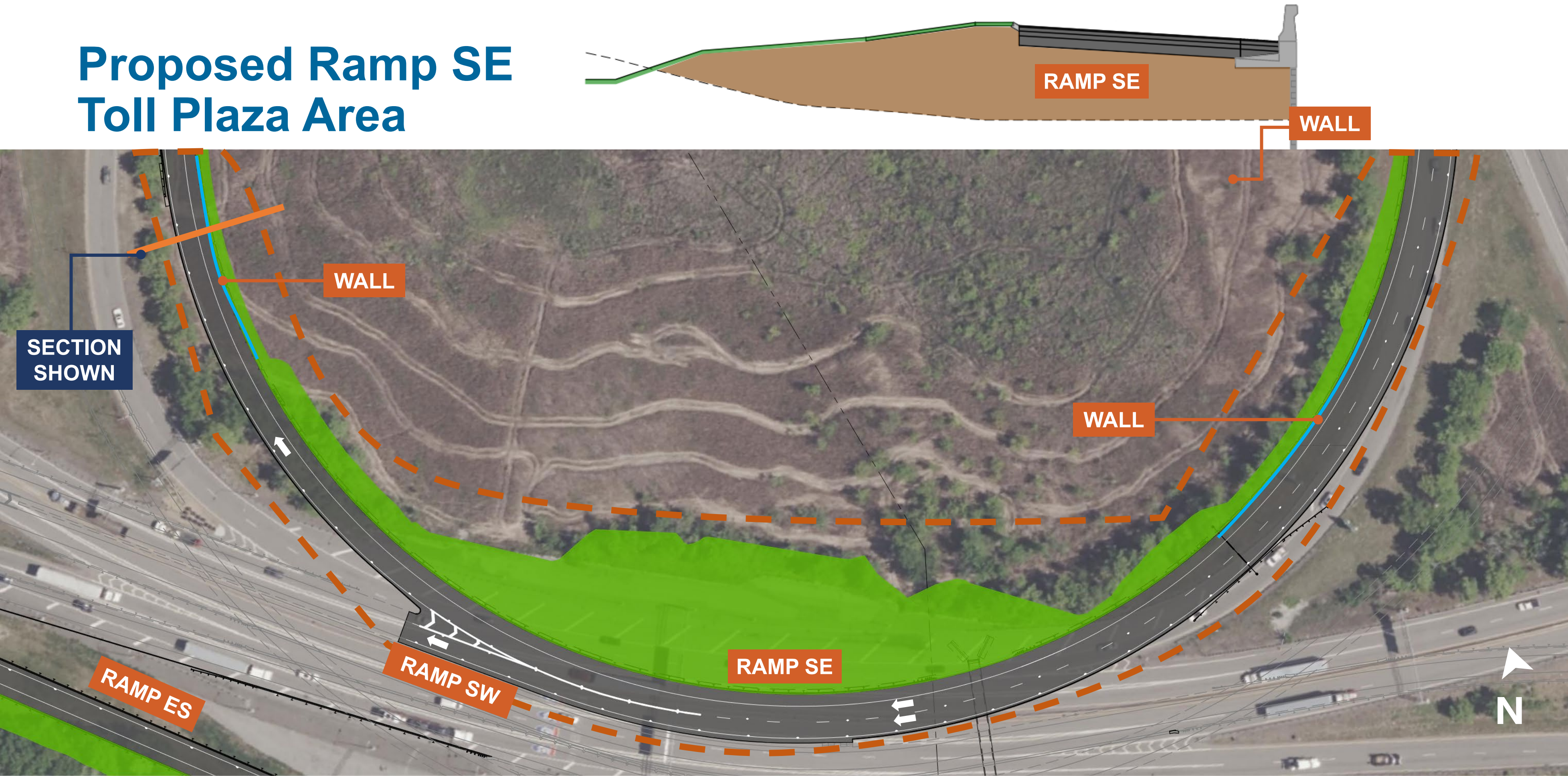


# Proposed Ramp SE I-495 SB Deceleration



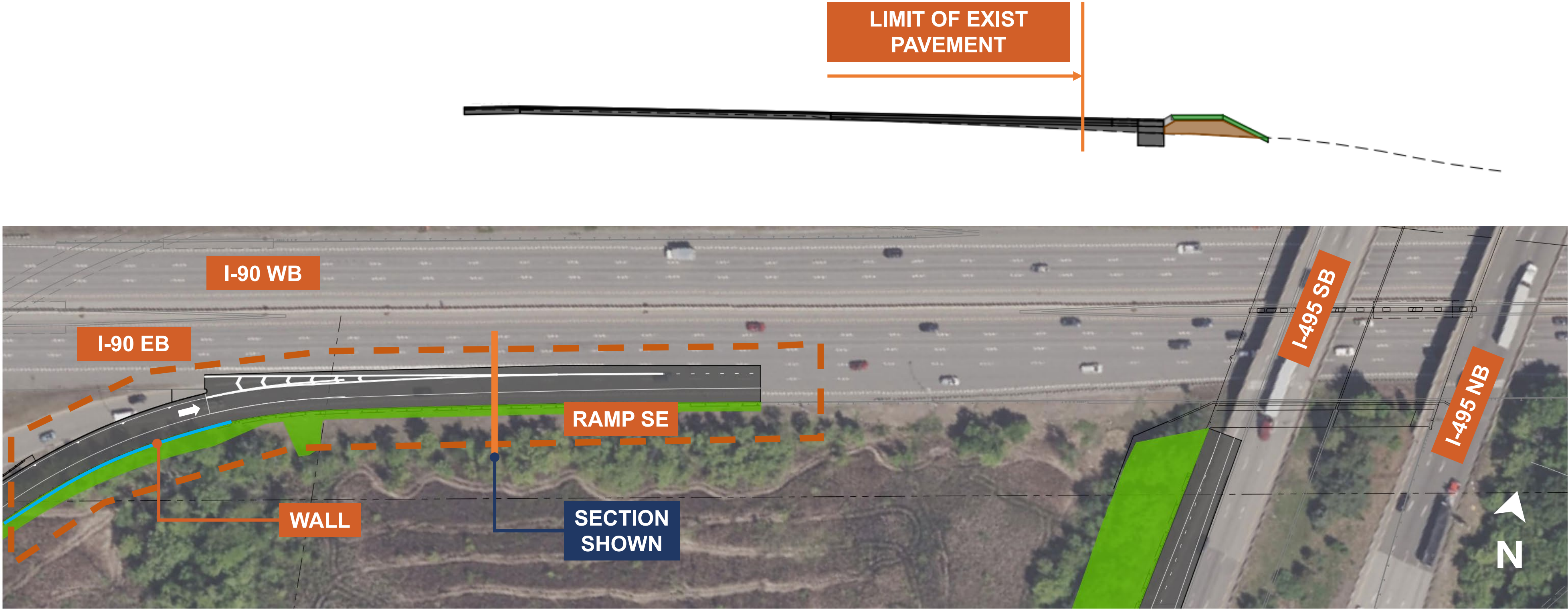


# Proposed Ramp SE Toll Plaza Area





# Ramp SE I-90 EB Merge







# Outreach and Communication Plan



# Public Outreach and Engagement

## Public Information and Design Public Meetings

- Project Information Meeting #1 held November 16, 2022
- Hopkinton North Woods Coalition Neighborhood Meeting held January 10, 2023
- First 75% Design Public Information Meeting on ES/SE/Culvert 10 & Fruit Street tonight, January 25, 2023
- Additional meetings will take place in 2023 based on design development and prior to the start of major construction activities and impacts

## Briefings with local and state officials, community groups, and neighborhoods

## Staying Connected

- Comprehensive email distribution list:
  - Includes the broader region, Chambers of Commerce, TMAs, trucking and travel industries, elected officials, town departments, etc.
  - Postcard sent to 1,200 property owners inviting them to sign up for emails in December 2022
- Project website—updated regularly with construction and traffic information
- Regular project email and website updates before key milestones and in advance of traffic and construction impacts



# Public Outreach Schedule

Task	Date	Details
Legislative Briefing	10/26/22	Completed
495 Partnership Meeting	11/03/22	Completed
Public Meeting	11/16/22	Completed
Hopkinton North Woods Coalition Neighborhood Meeting	January 10, 2023	Completed
75% Design—Fruit Street/Ramps ES, SE	January 25, 2023	Tonight!
Stakeholder Database	October 2022	Ongoing—to be updated continually throughout project—announced project to 1,200 property owners and invited them to sign up for emails
Project Emails	<ul style="list-style-type: none"><li>• November 2022</li><li>• December 2022</li><li>• January 2023</li><li>• Continuing monthly or as-needed</li></ul>	Emails will announce new construction information and future meetings
Project Website	<ul style="list-style-type: none"><li>• Regular updates</li></ul>	Ongoing—to be updated continually throughout project



# Staying Connected

**Please join our mailing list! You can sign up on the project website.**

## Project website

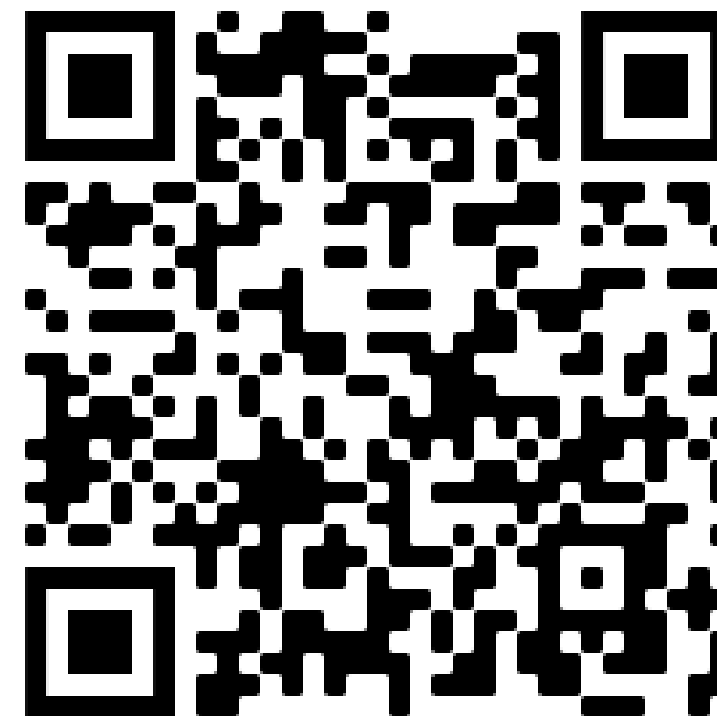
<https://www.mass.gov/i-495i-90-interchange-improvements>

## Project email

[495-90Improvements@state.ma.us](mailto:495-90Improvements@state.ma.us)

## Social media

- **Facebook:** @massdotinfo
- **Twitter:** @MassDOT







# Questions and discussion



## Questions and Answers



- “Raise your hand” to be unmuted for verbal questions



- Submit your questions and comments using the Q&A button



- Please state your name before your question



- Please be mindful when sharing multiple questions, to allow time for others to participate



- To ask a question via phone, dial \*9 and the moderator will call out the last 4-digits of your phone number and unmute your audio when it is your turn

**All questions and comments are subject to disclosure for public records.  
Please use these functions for project related business only.**





## ***Thank You***

January 25, 2023  
**Public Information Meeting**  
**75% Fruit Street & Ramp ES/SE**

Virtual Meeting

No. 607977-116673

**Project email**

[495-90Improvements@state.ma.us](mailto:495-90Improvements@state.ma.us)