



April 26, 2023
Public Information Meeting
I-495 & Ramp WN

Virtual Meeting

No. 607977-116673

Project email

495-90Improvements@state.ma.us

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- Ask a question and share comments



- Drop down menu to check microphone and speakers



- Raise your hand—*9 for users dialing in and Alt + Y to raise your hand



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- Your microphone and camera are automatically disabled upon entering the 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 at the end of the meeting. Your feedback is important.

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Agenda

01 Project Overview

02 Design:

I-495 and Ramp WN

03 Outreach and
Communication Plan



Tonight's Panel:

MassDOT

Gary Baxter, Project Manager

Jean-Pierre Telemaque, Asst. Construction Engineer, District 3

Tom Emerick, Deputy Director District 3

Jim Cerbone, Environmental

Alex Murray (HNTB), Preliminary Design Team

Scott Noel (HMMH), Preliminary Design Team

Adetoyin Olaoye, MassDOT Producer

Design-Build Team

Mark Shamp (BHD) Project Manager

Don Cooke (VHB) Design Manager

Howard Goldberg (BHD) Construction

Josh Cone-Roddy (VHB) Highway

Carlos Lopez (MBI) Ramp WN

Keith Sonia (RVA) Outreach

Kathleen Keen (VHB) Design Development

Mike Regan (VHB) Traffic

Andrew Burkholder (VHB) Bridge

Meredith Avery (VHB) Environmental

Chris Wagner (VHB) Environmental

Jill Baumbach (VHB) Stormwater

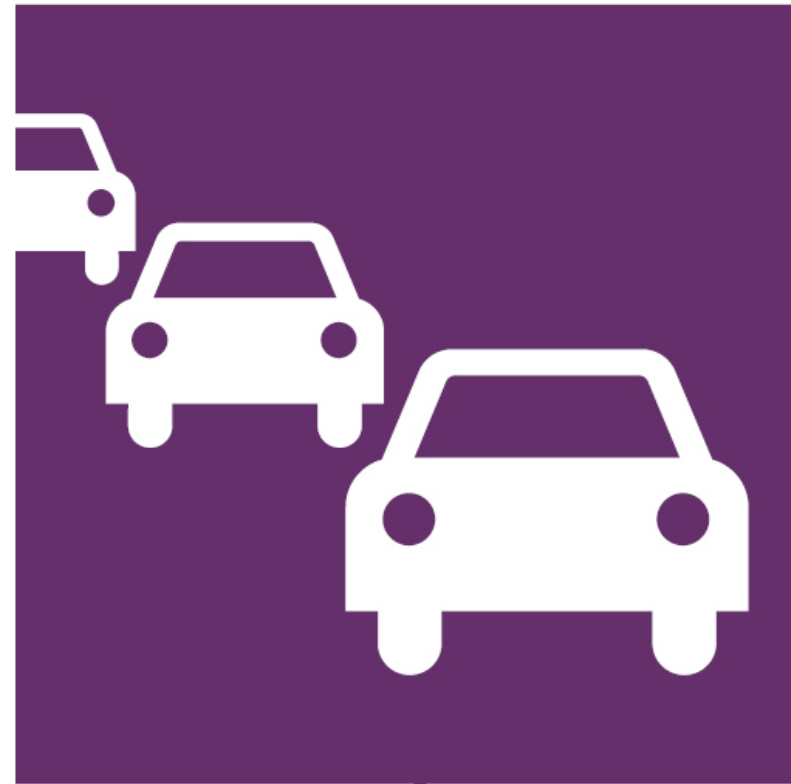


Project Overview

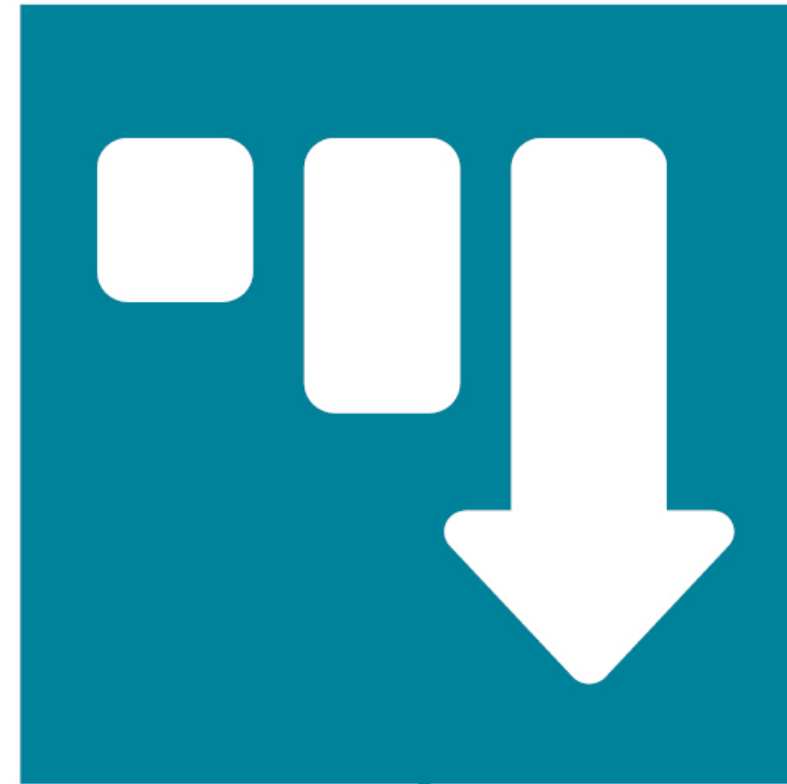
Project Goals



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



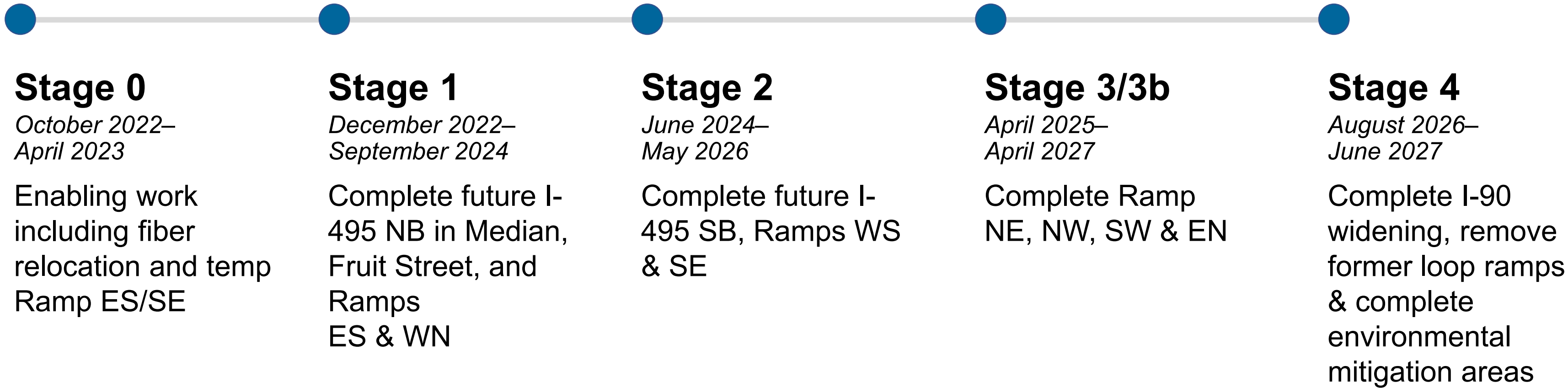
Reduce travel time
the interchange,
especially for
high-volume
movements

Schedule

Design

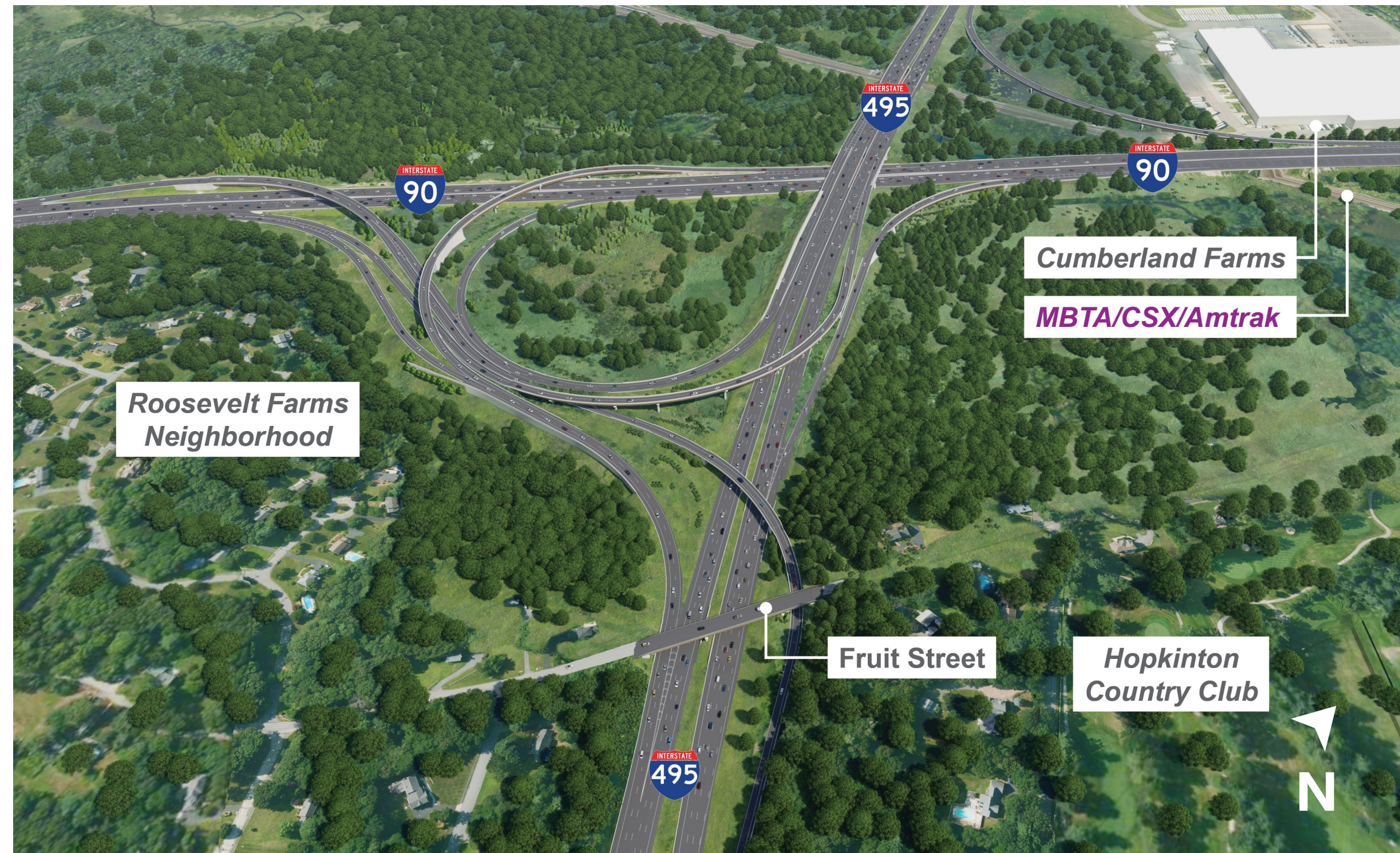


Construction



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



Project website

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

I-90

- 3 lanes in each direction with minor widening
- Minimal changes to roadway profile and cross slope
- 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



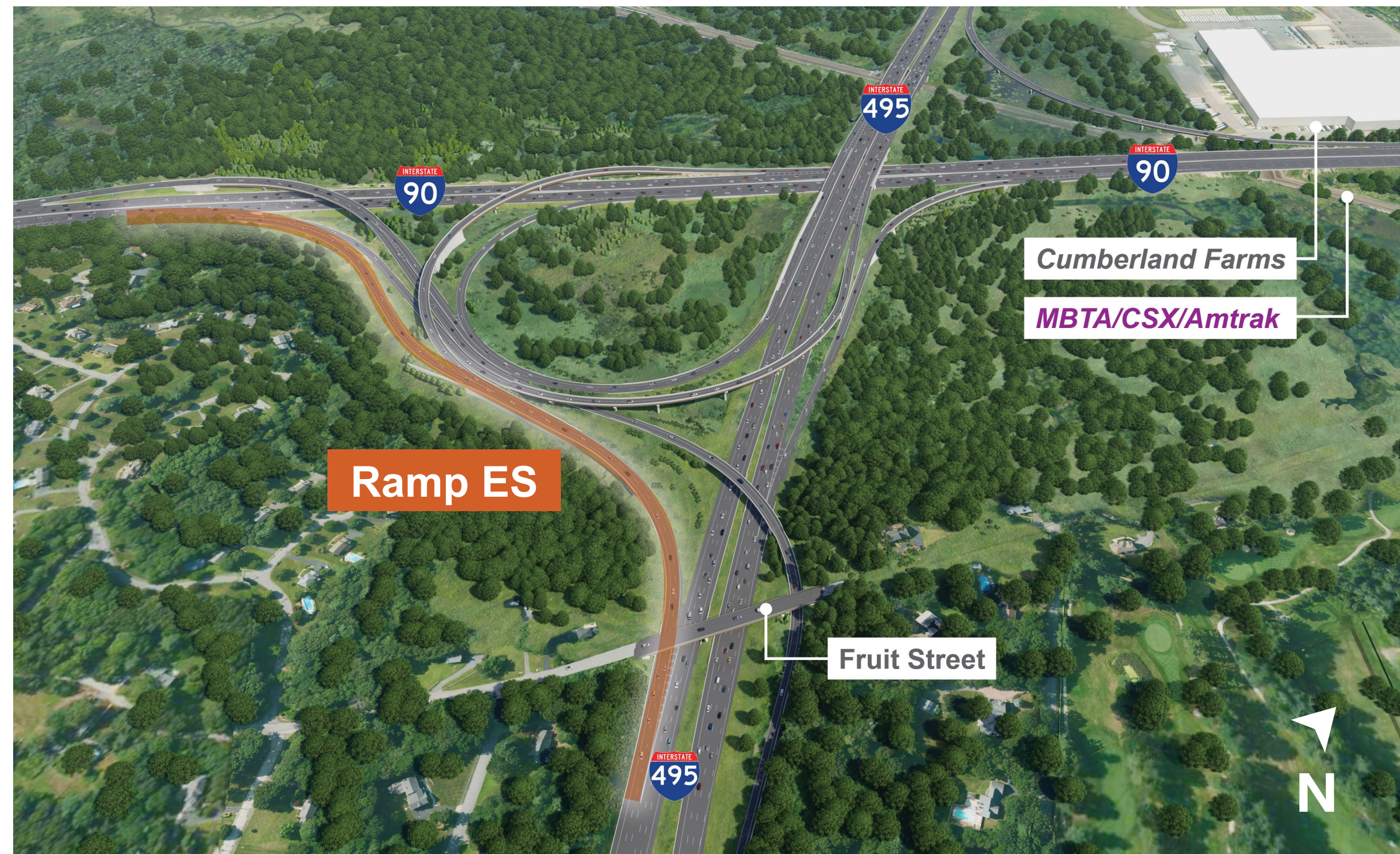
I-495

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



Ramp ES

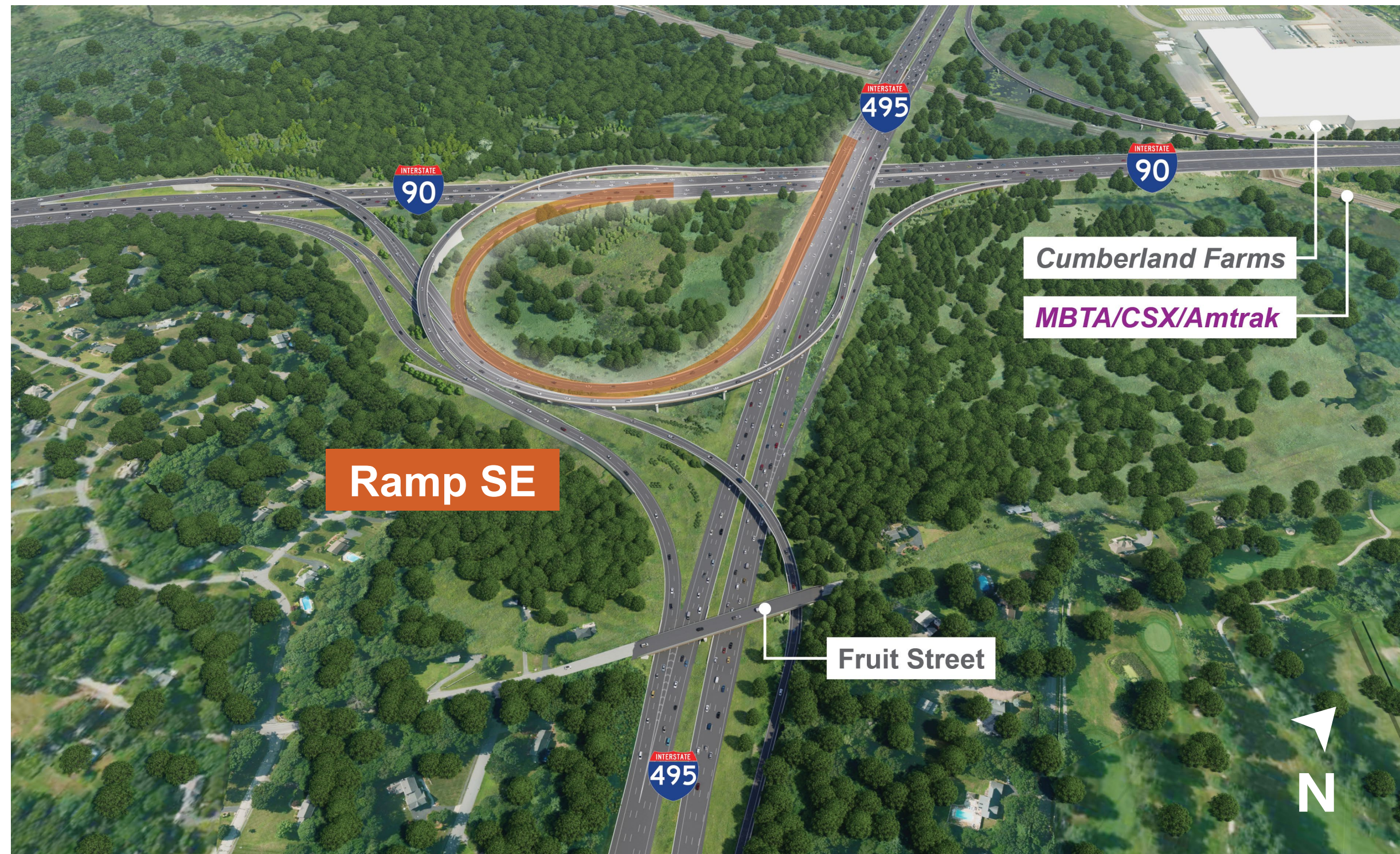
- New direct ramp provided between I-90 EB and I-495 SB
- Part of a 2-lane off-ramp from I-90 EB (splits to Ramp ES and Ramp EN)
- Combines with Ramp WS to provide 2-lane on-ramp to I-495 SB



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

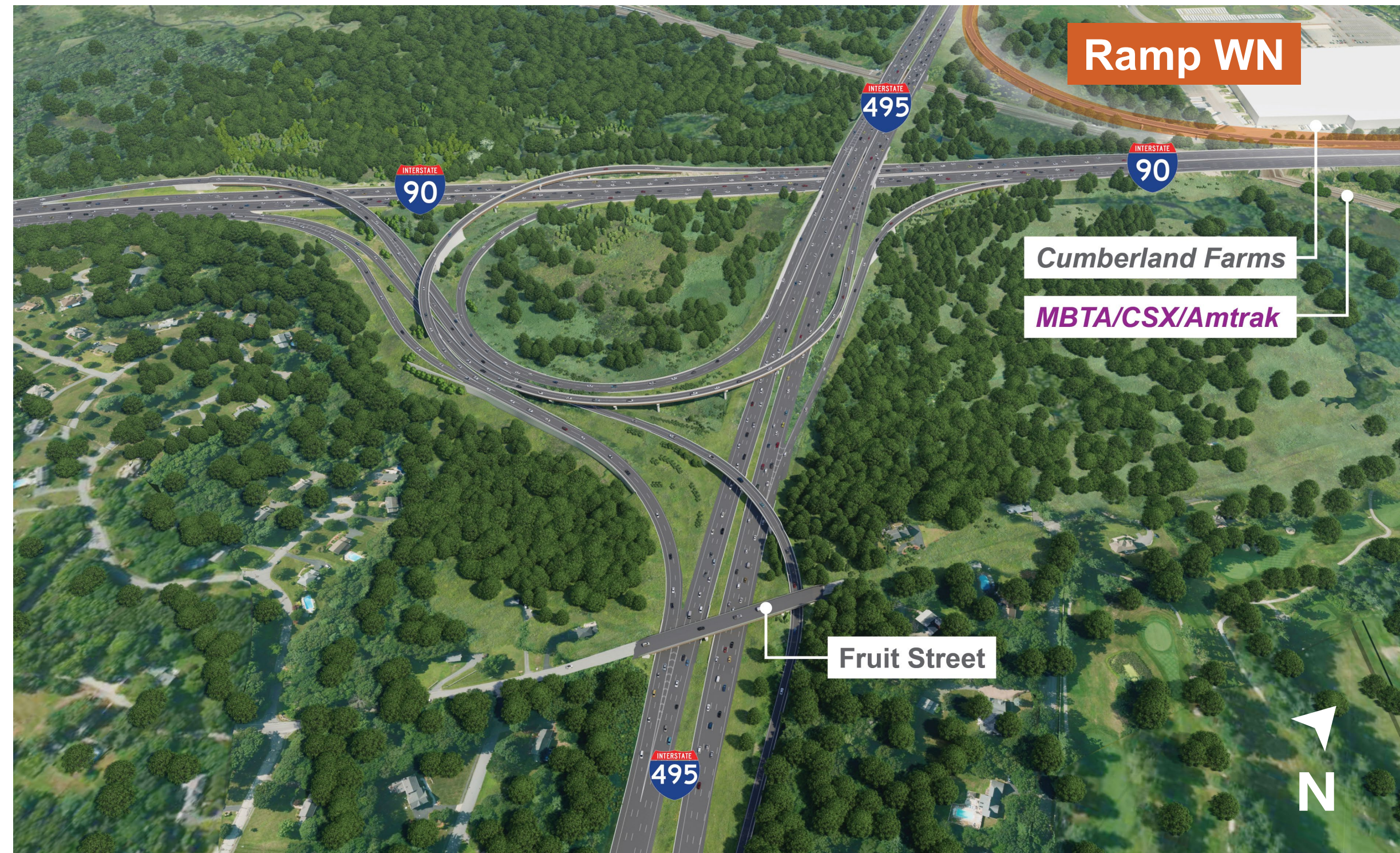
Ramp SE

- 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



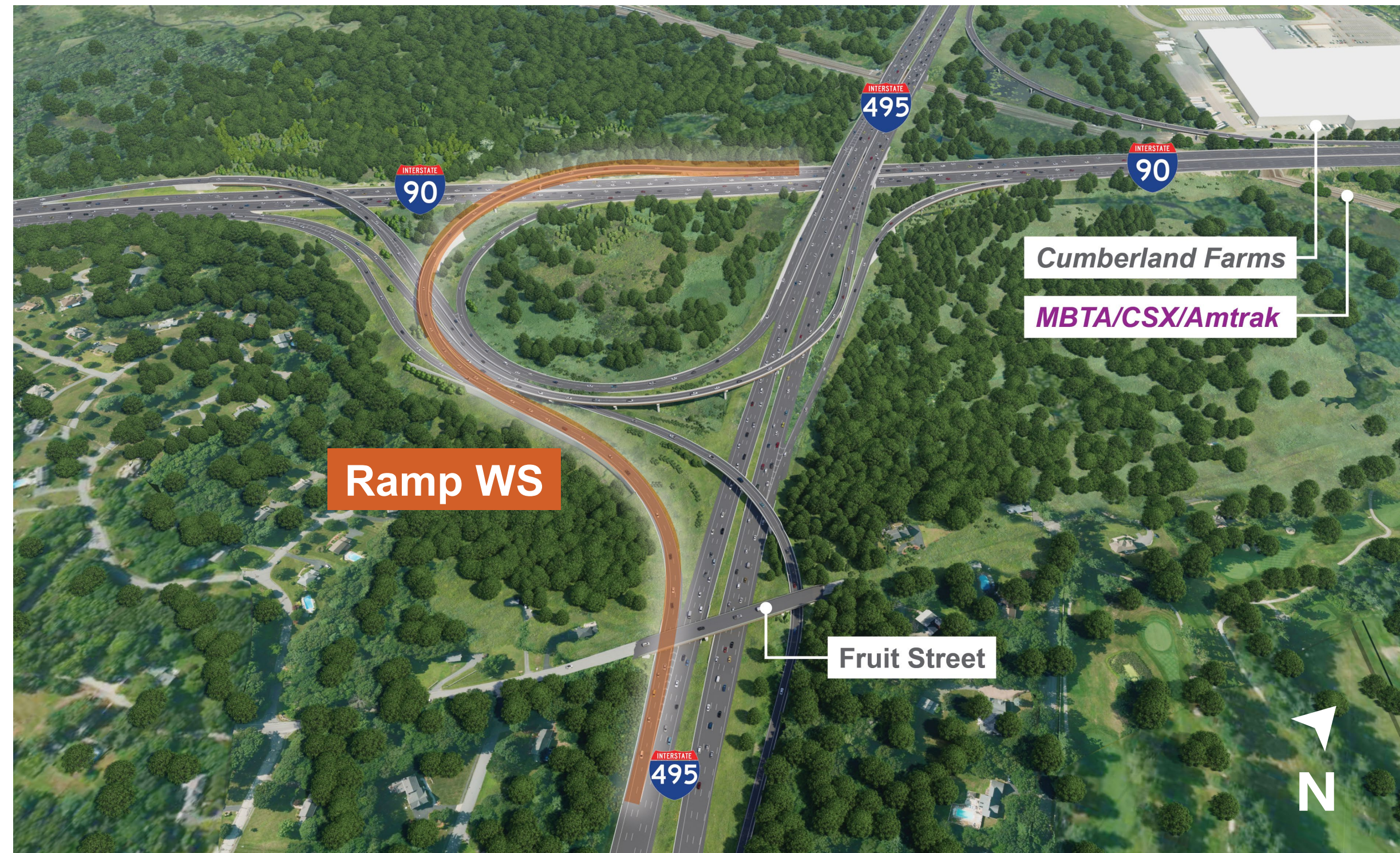
Ramp WN

- 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



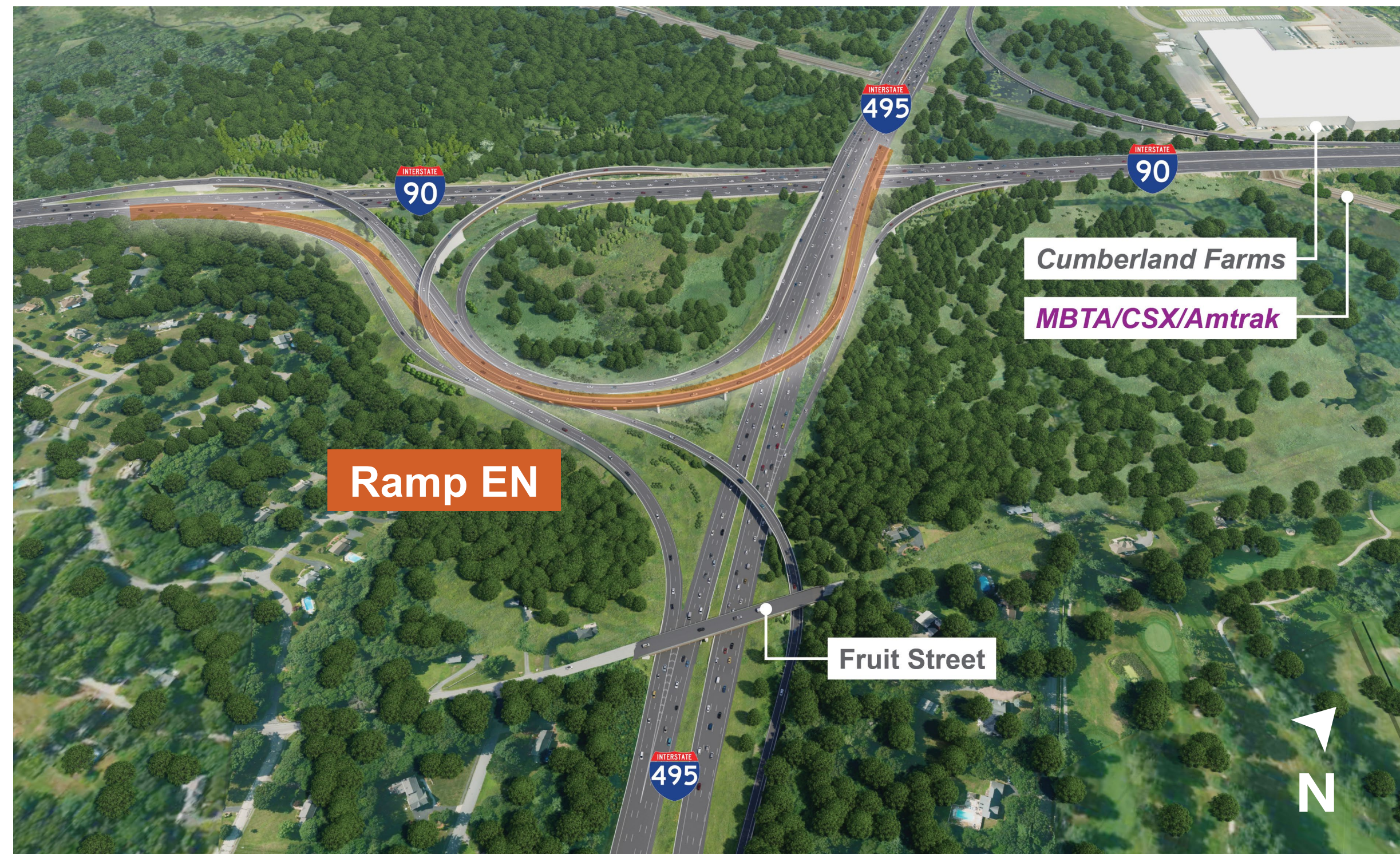
Ramp WS

- 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



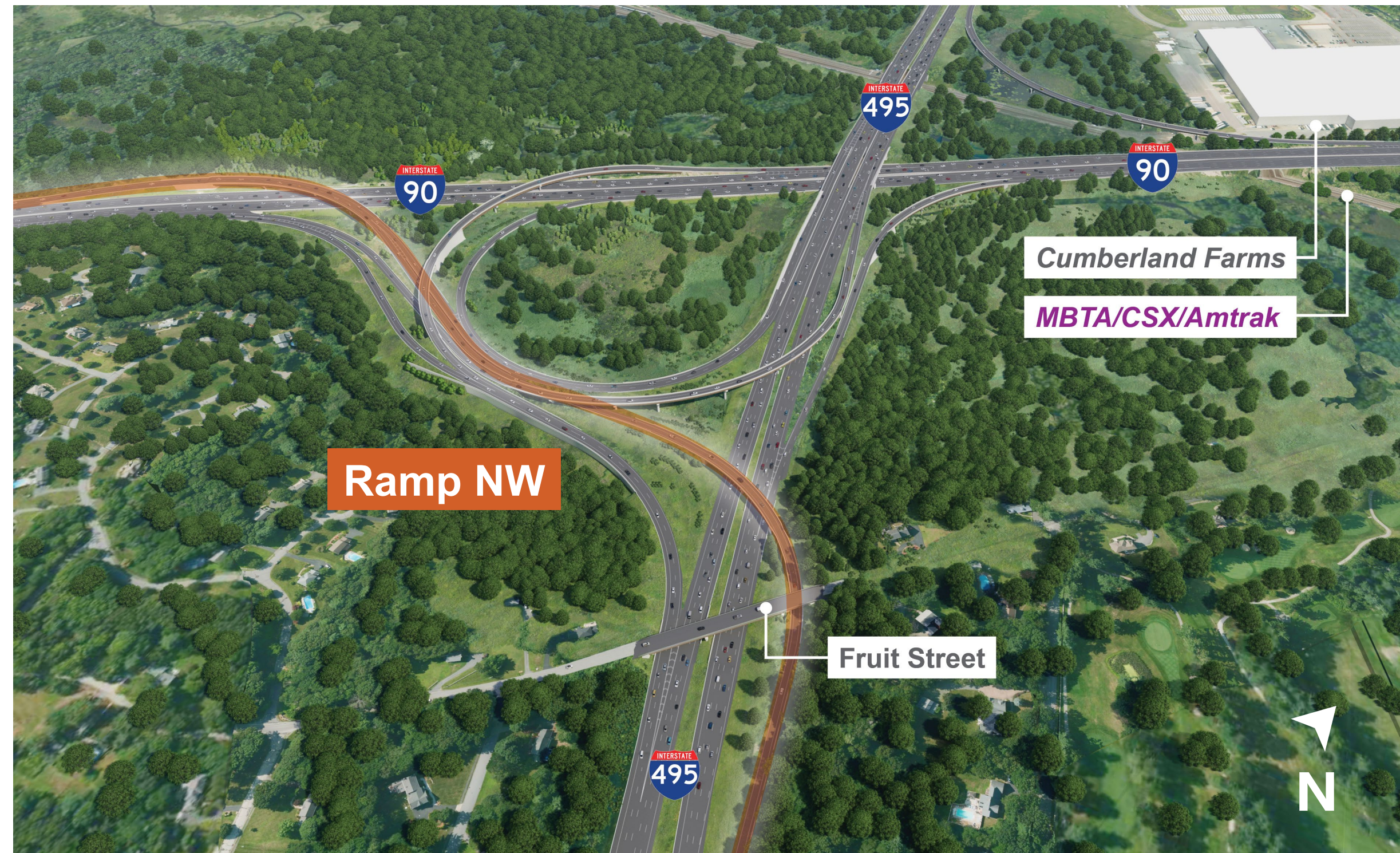
Ramp EN

- 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



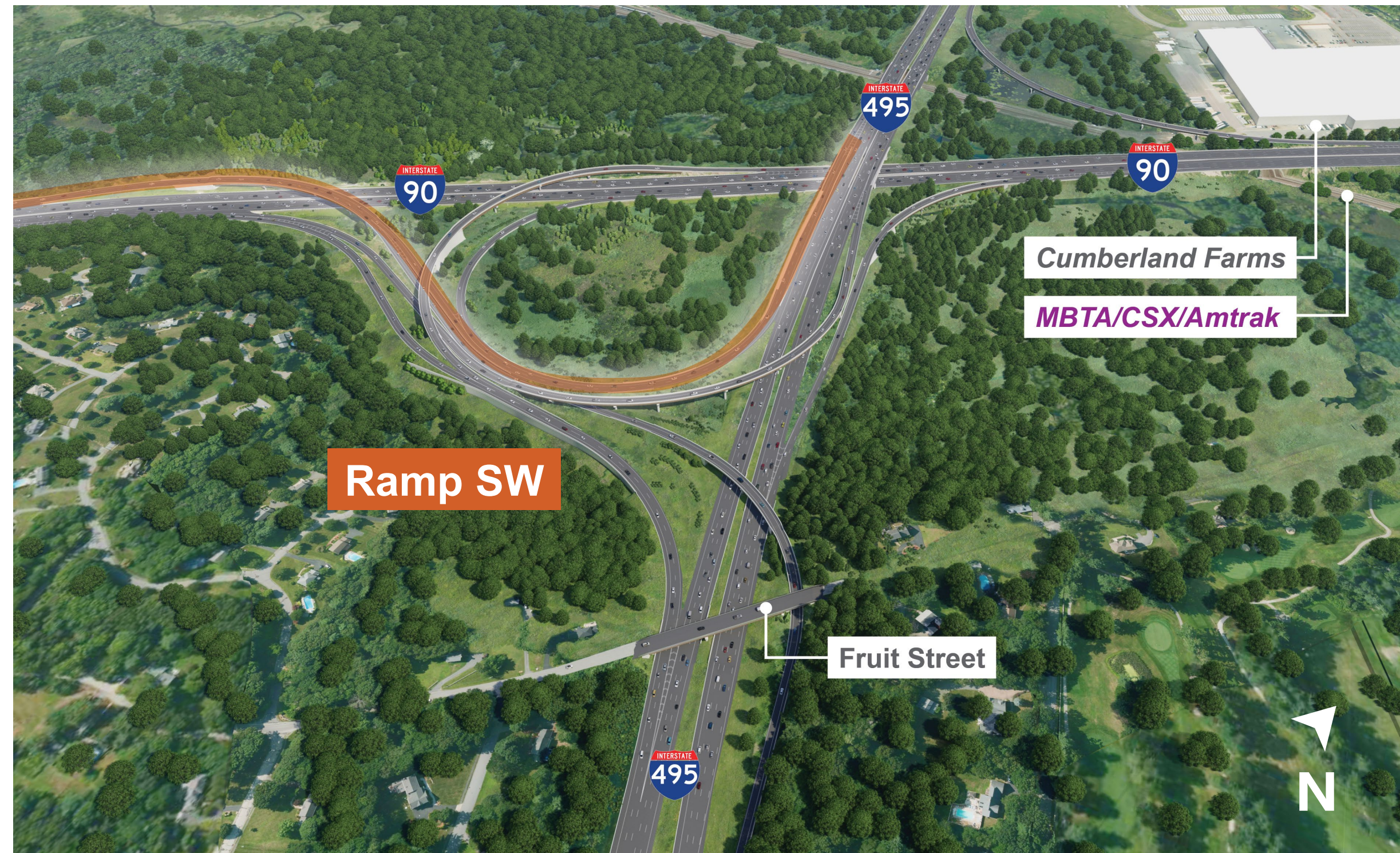
Ramp NE

- 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



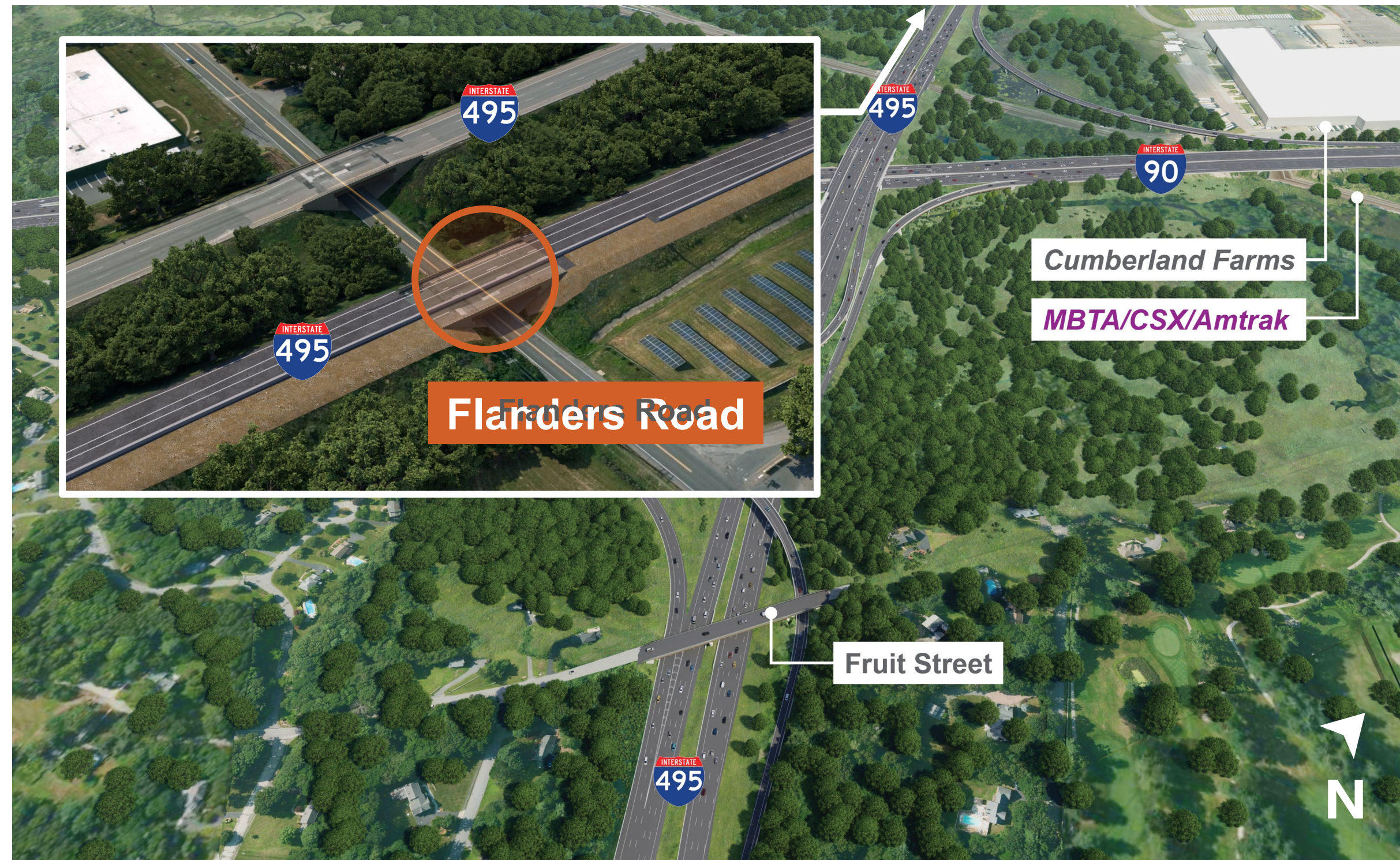
Fruit Street

- Replacement of Fruit Street bridge over I-495
- Will be completed in 2 major stages
- 2-way, 1-lane alternating traffic (under signal control) during major stages
- Emergency vehicle pre-emption to be provided at signal
- Involves additional roadway, utility and landscaping features



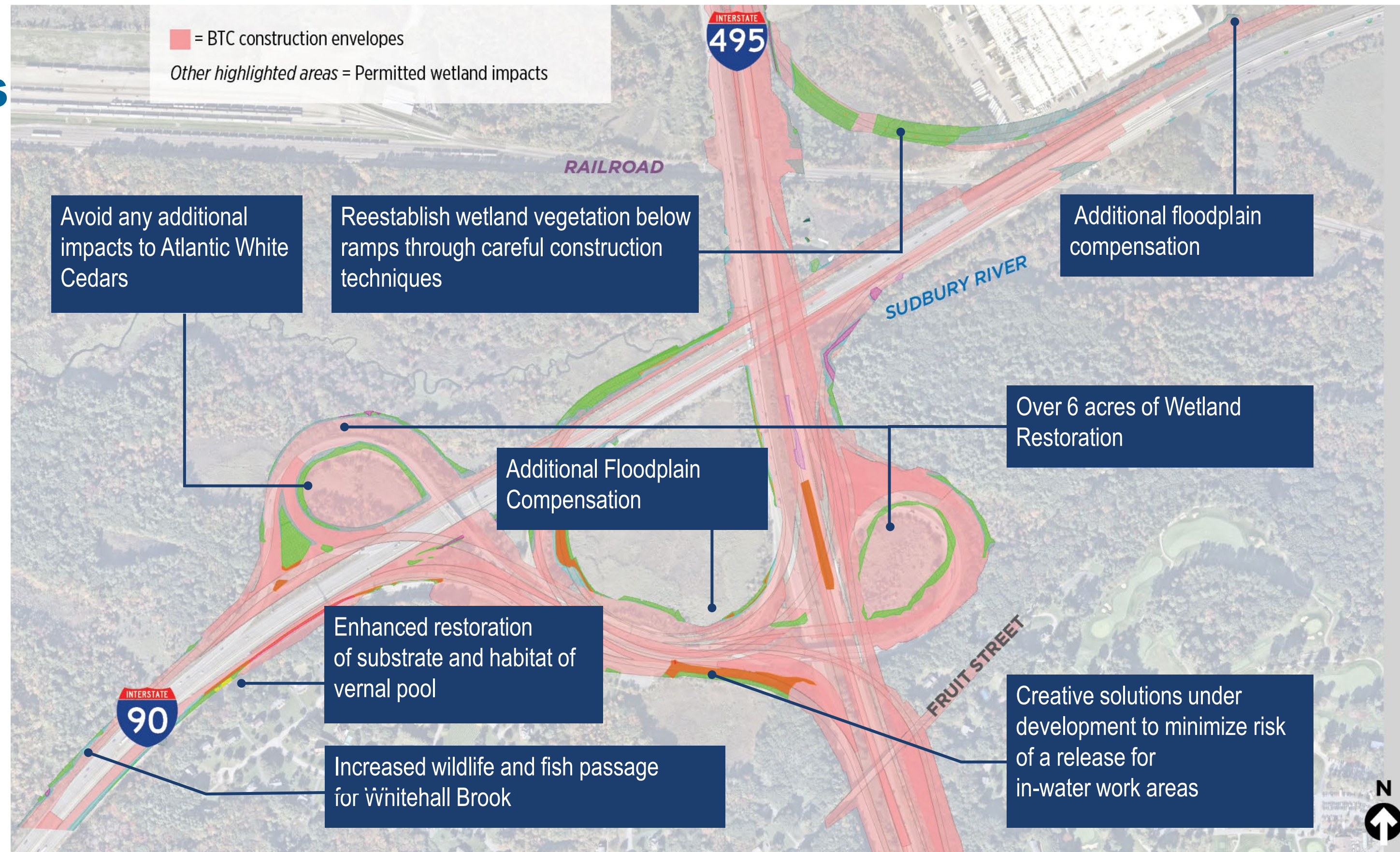
Flanders Road

- 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

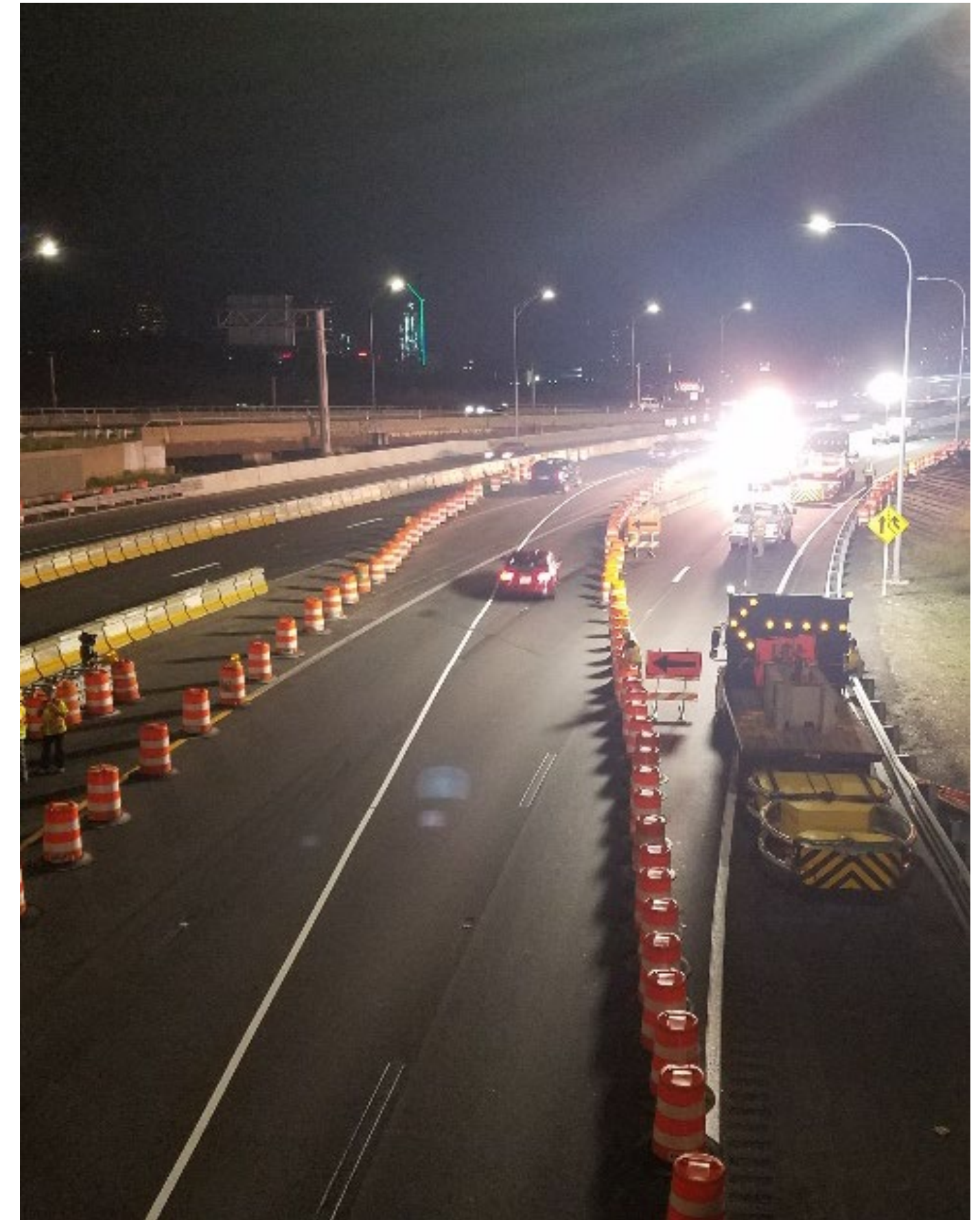
- Interchange is located near sensitive natural resources
 - Cedar Swamp ACEC
 - Sudbury River
 - Whitehall Brook
 - Surrounding wetlands and floodplains
- Permits
 - Issued during preliminary design
 - Require continued agency involvement as designs advance
 - Require construction and post-construction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



Traffic & Staging Considerations

I-90 & I-495

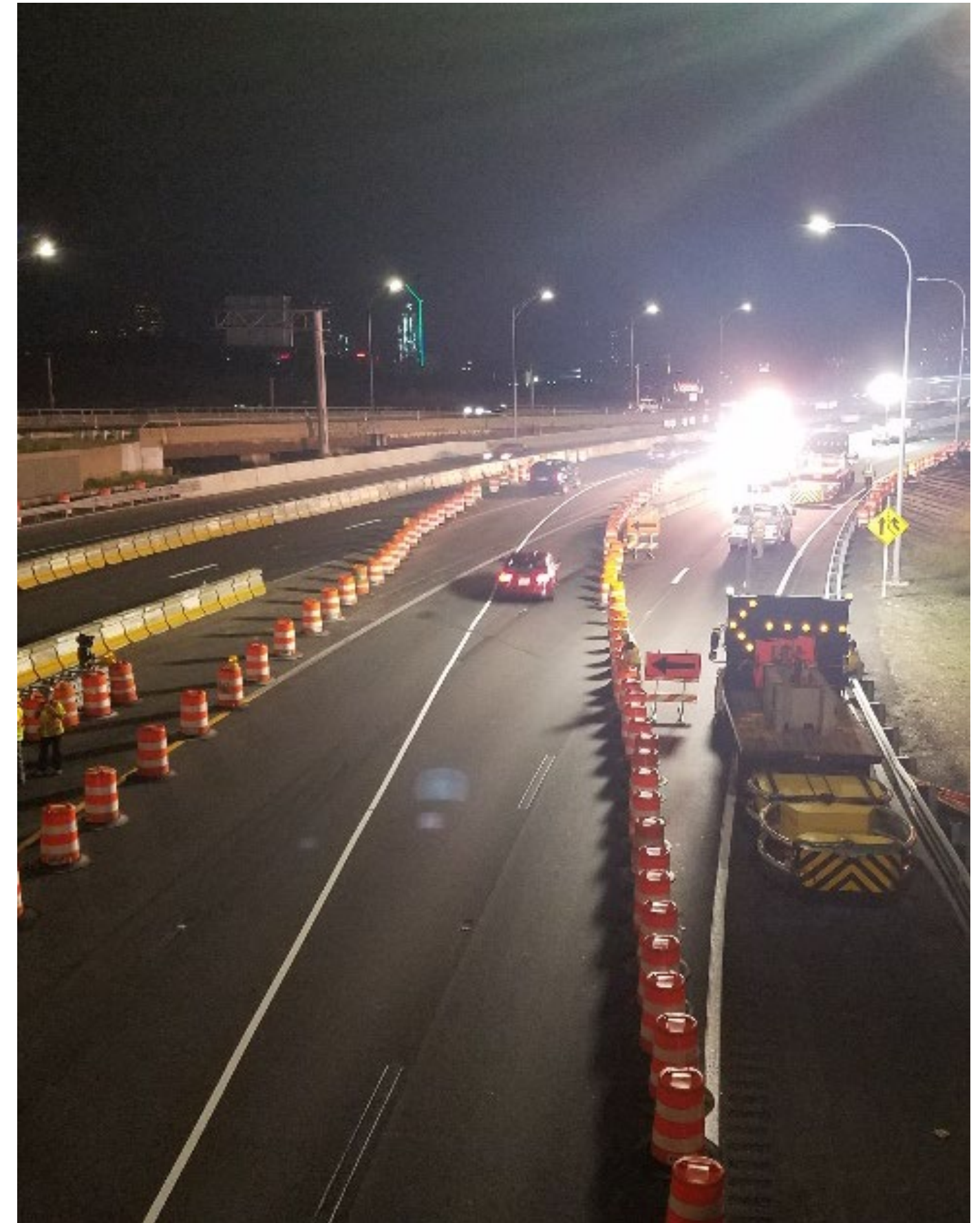
- **Maintain 3 lanes on mainlines, except for short-term closures during approved off-peak hours**
- **Maintain all ramp connections between I-90 and I-495, including along temporary alignments**
- Maintain proper signage and markings
- Provide temporary roadway lighting along ramps
- Provision of safe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



Traffic & Staging Considerations (2)

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: Hot Line 508-676-3551

- The Noise Control Plan (NCP) established baseline sound levels (Fall 2022).
- Quarterly noise monitoring will be conducted to ensure construction noise remains in compliance.
- 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)





Stage 1

Stage 1 Overview

- Construct:
 - Future I-495 NB and bridges over I-90 and Railroad
 - New Ramp WN
 - New Ramp ES (*previous meeting*)
 - Fruit Street Bridge (*previous meeting*)
 - I-90 (*future meeting*)
- Traffic will remain on existing barrels for with minor adjustments to lanes.
- Three lanes of traffic will be maintained during daytime hours.





I-495

I-495

- 3 lanes in each direction
- Auxiliary lane will be provided to Route 9
- I-495 NB constructed in existing median
- I-495 SB in its existing location
- Bridges over MBTA/CSX/Amtrak and I-90 to be replaced
- I-495 NB bridge over Flanders Road to be replaced



Proposed I-495 Typical Section

SOUTHBOUND

NORTHBOUND

SHOULDER

3 – 12' TRAVEL LANES

SHOULDER

SHOULDER

3 – 12' TRAVEL LANES

12' ACCEL AND
DECEL LANES

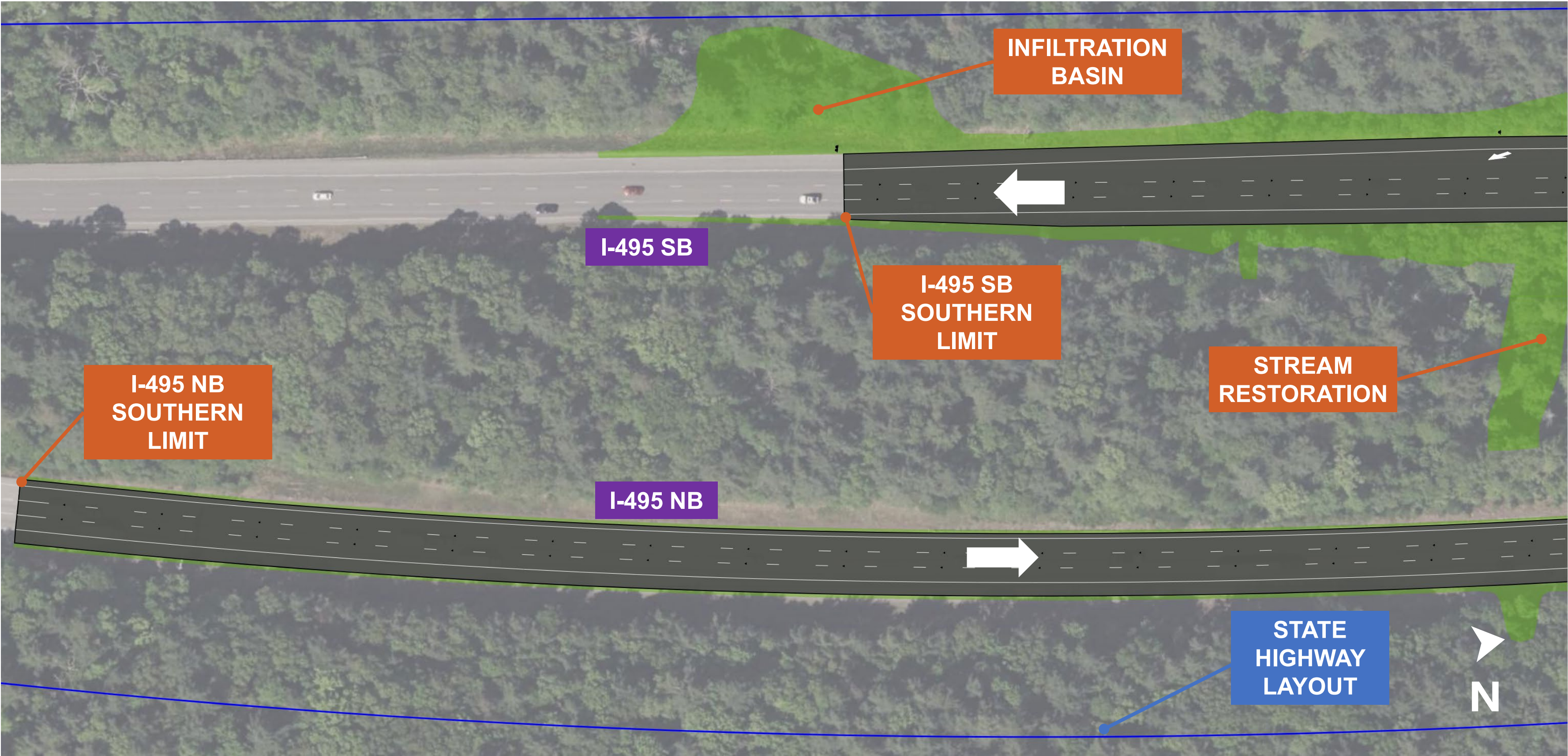
SHOULDER

GUARDRAIL

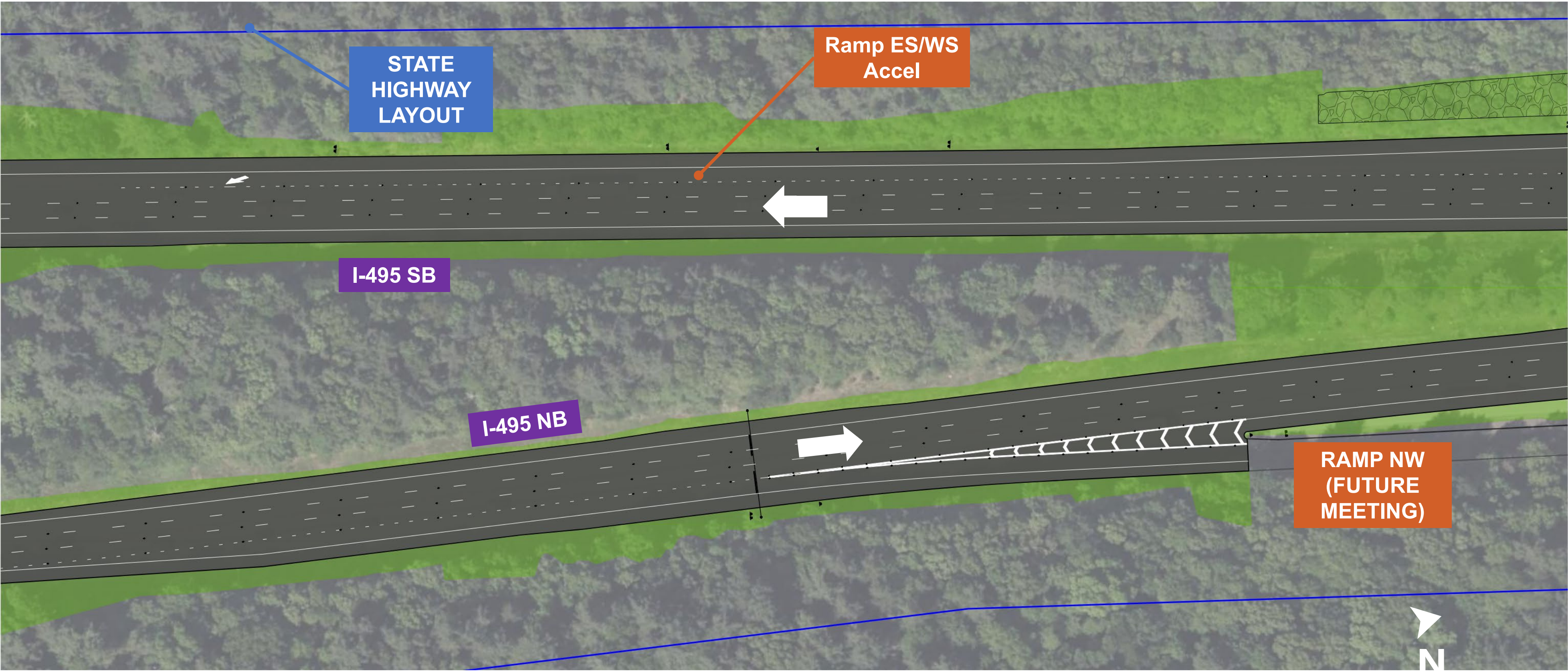
SWALE
(MEDIAN
TREATMENT
VARIES)

SWALE (EDGE
TREATMENT
VARIES)

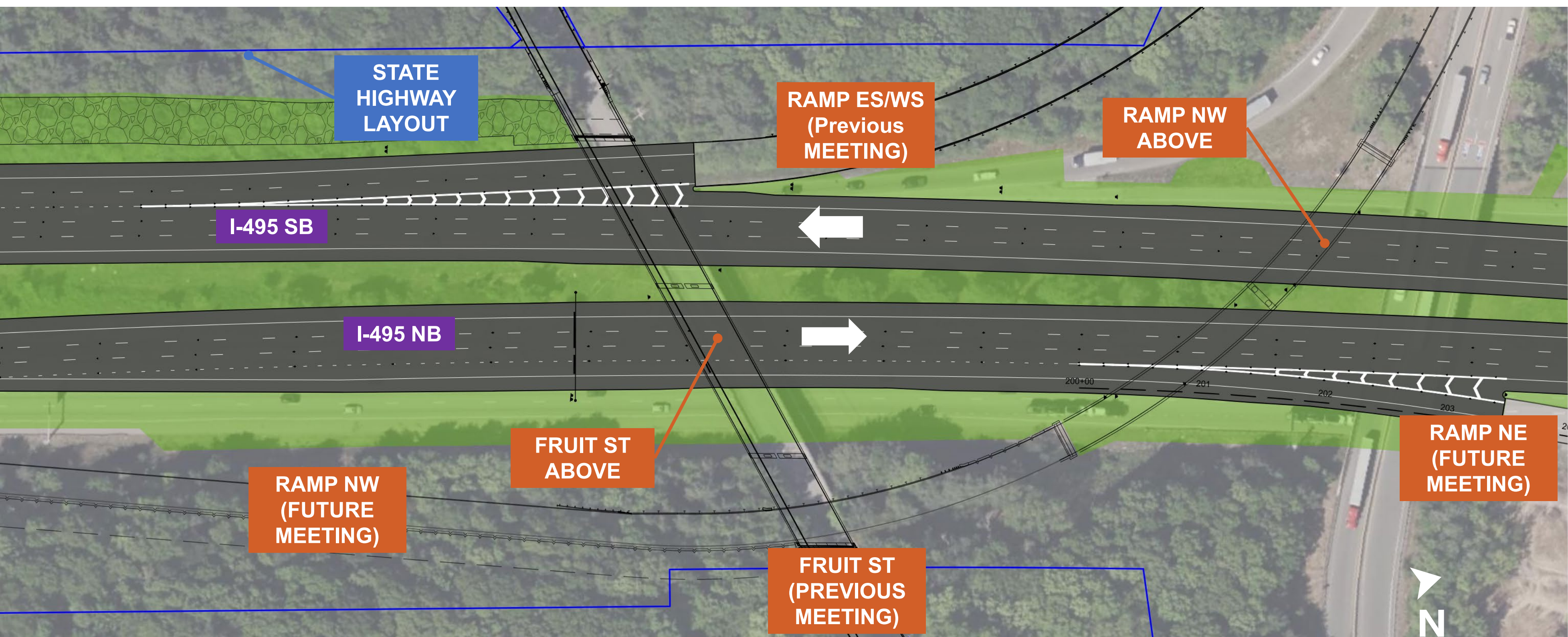
Proposed I-495 Southern Limits



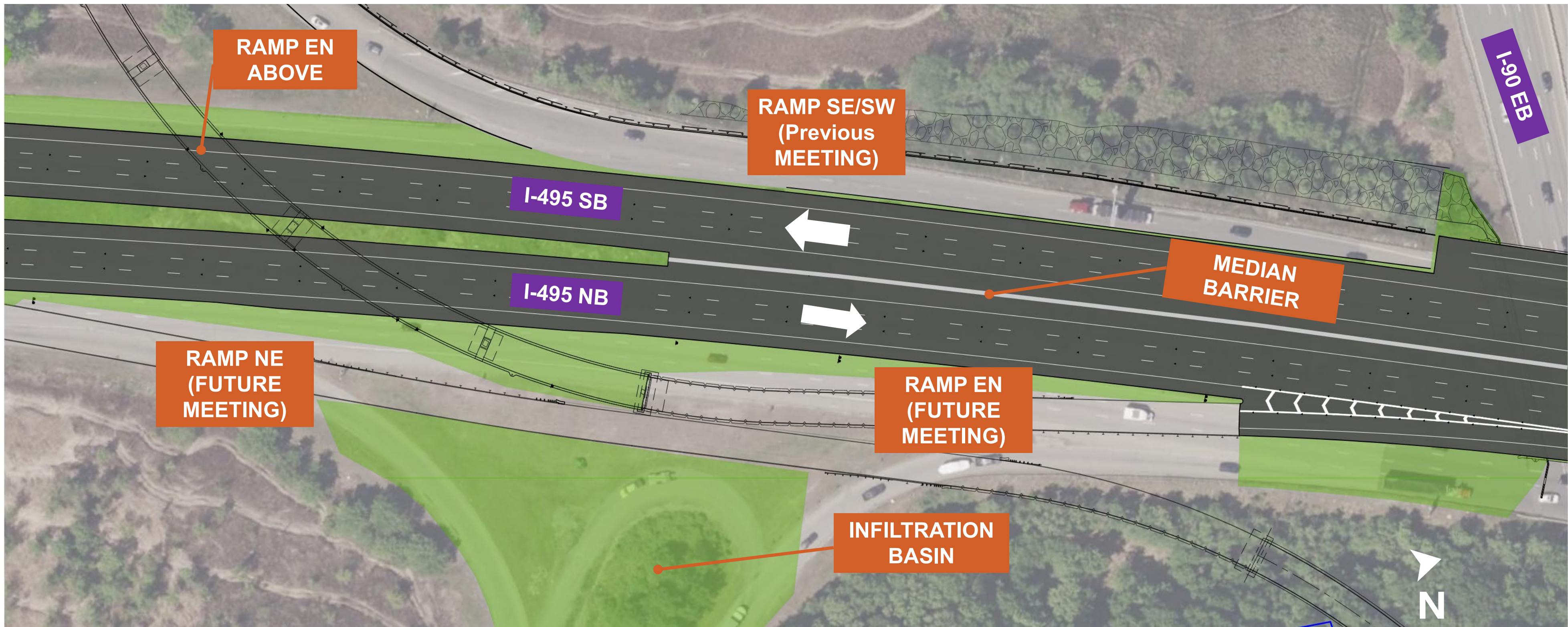
Proposed I-495 at Ramp NW



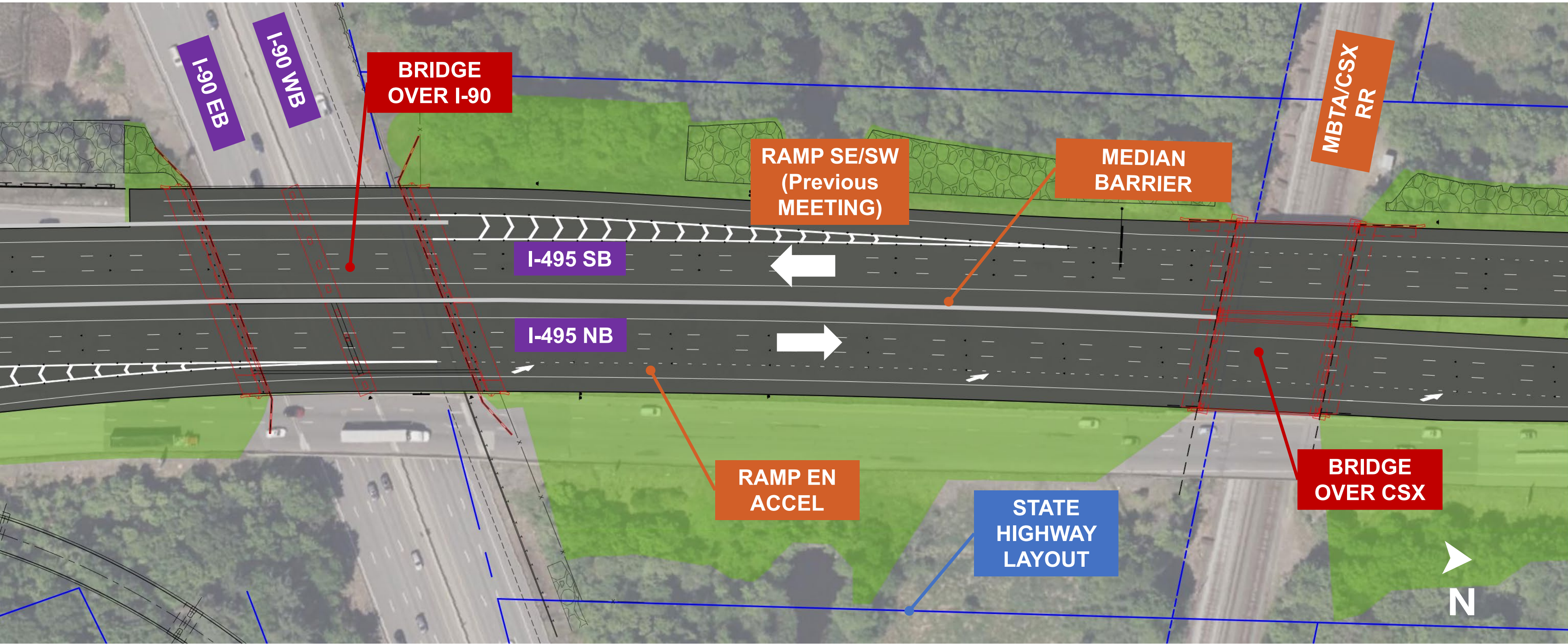
Proposed I-495 at Ramp ES/ SE and NE



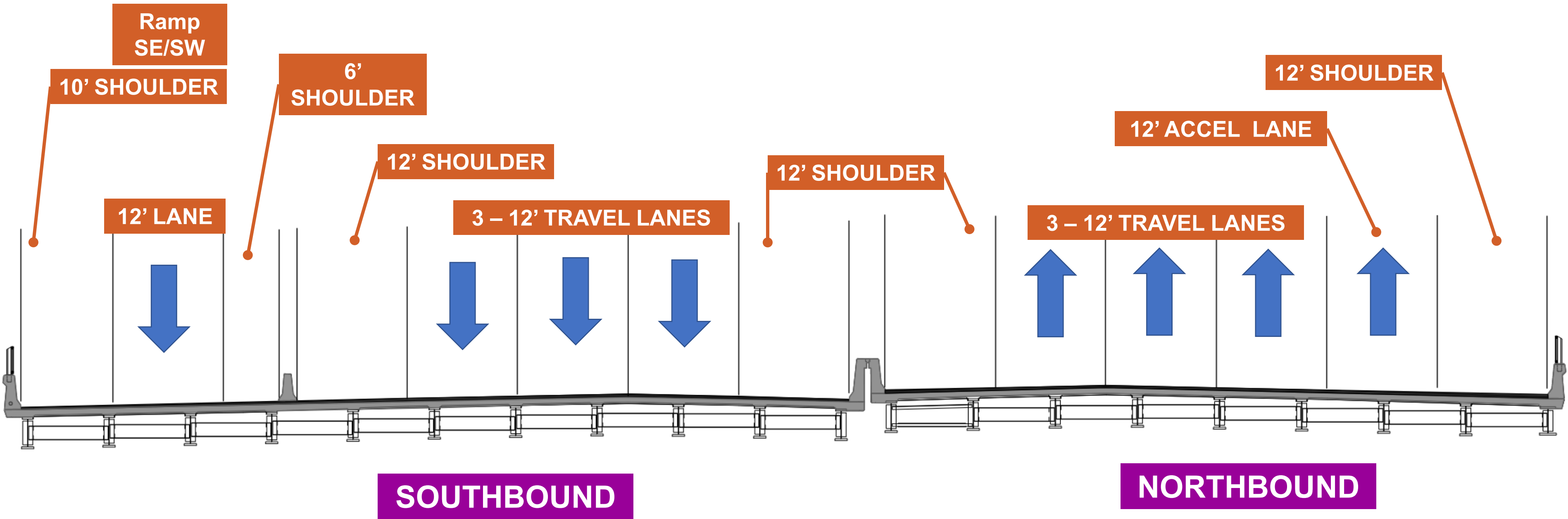
Proposed I-495 at Ramp SE/SW, EN and NE



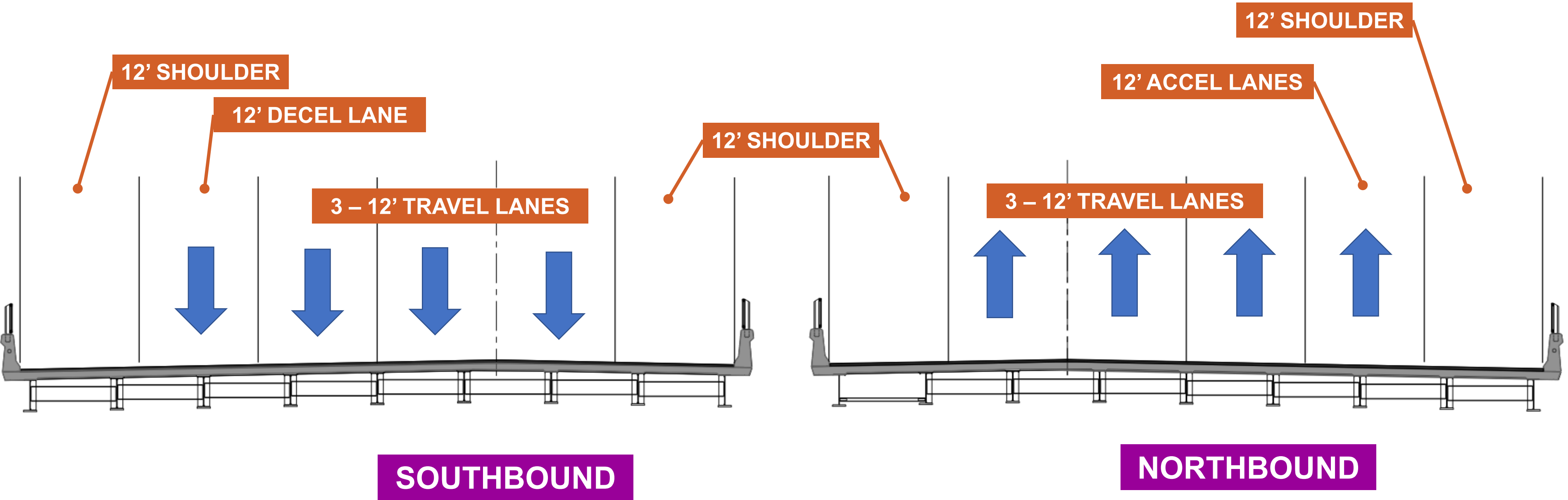
Proposed I-495 at I-90 and CSX



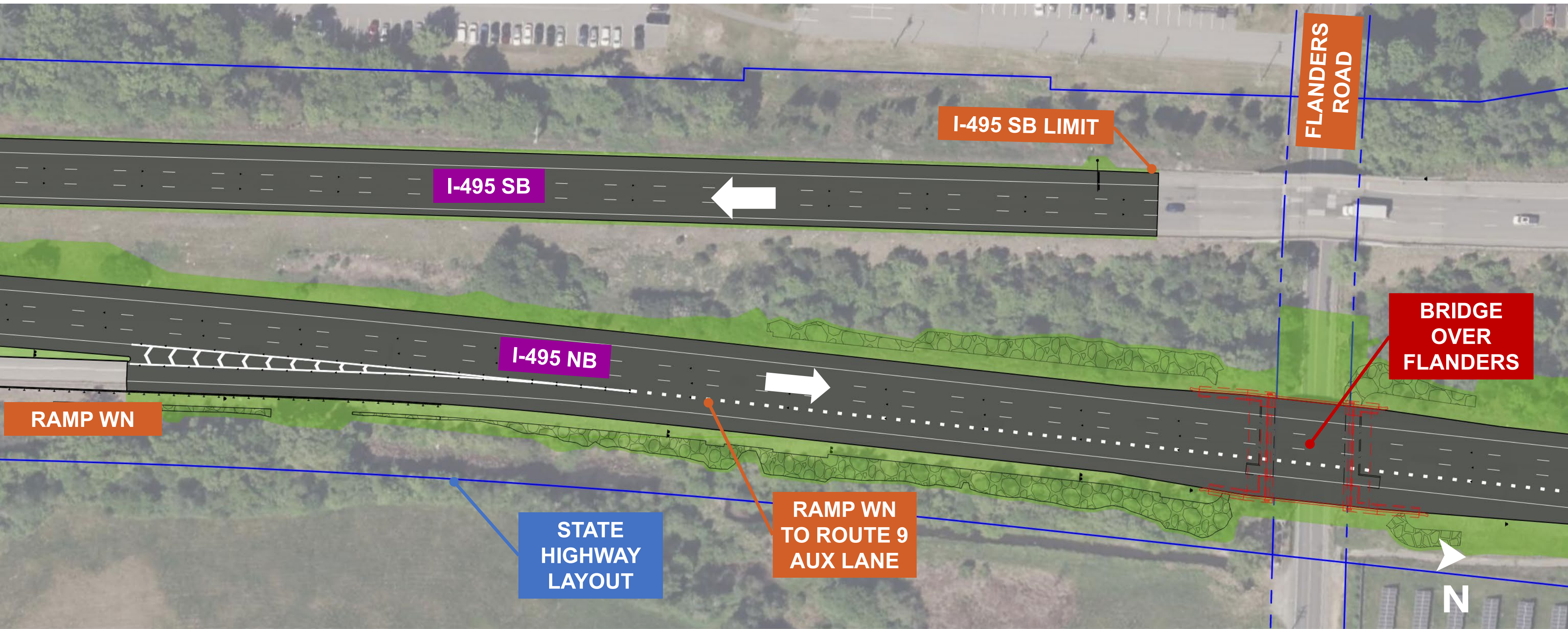
Proposed I-495 BRIDGE SECTION – over I-90



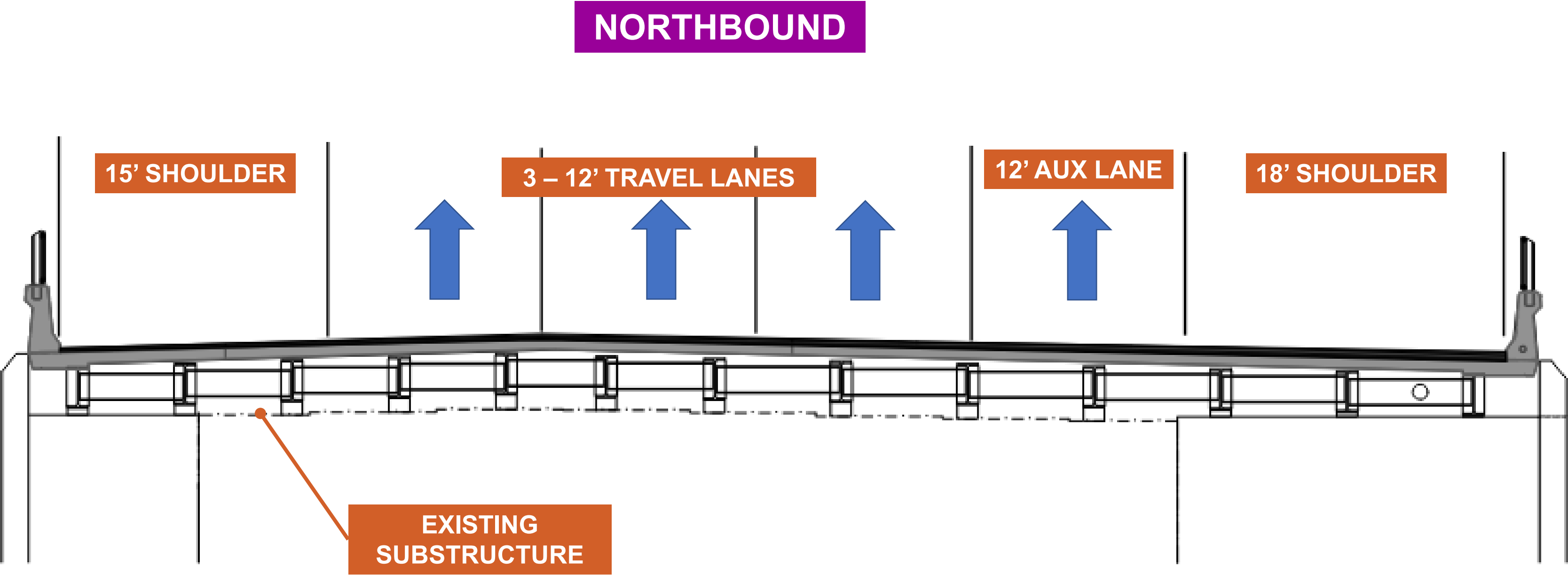
Proposed I-495 BRIDGE SECTION - over CSX



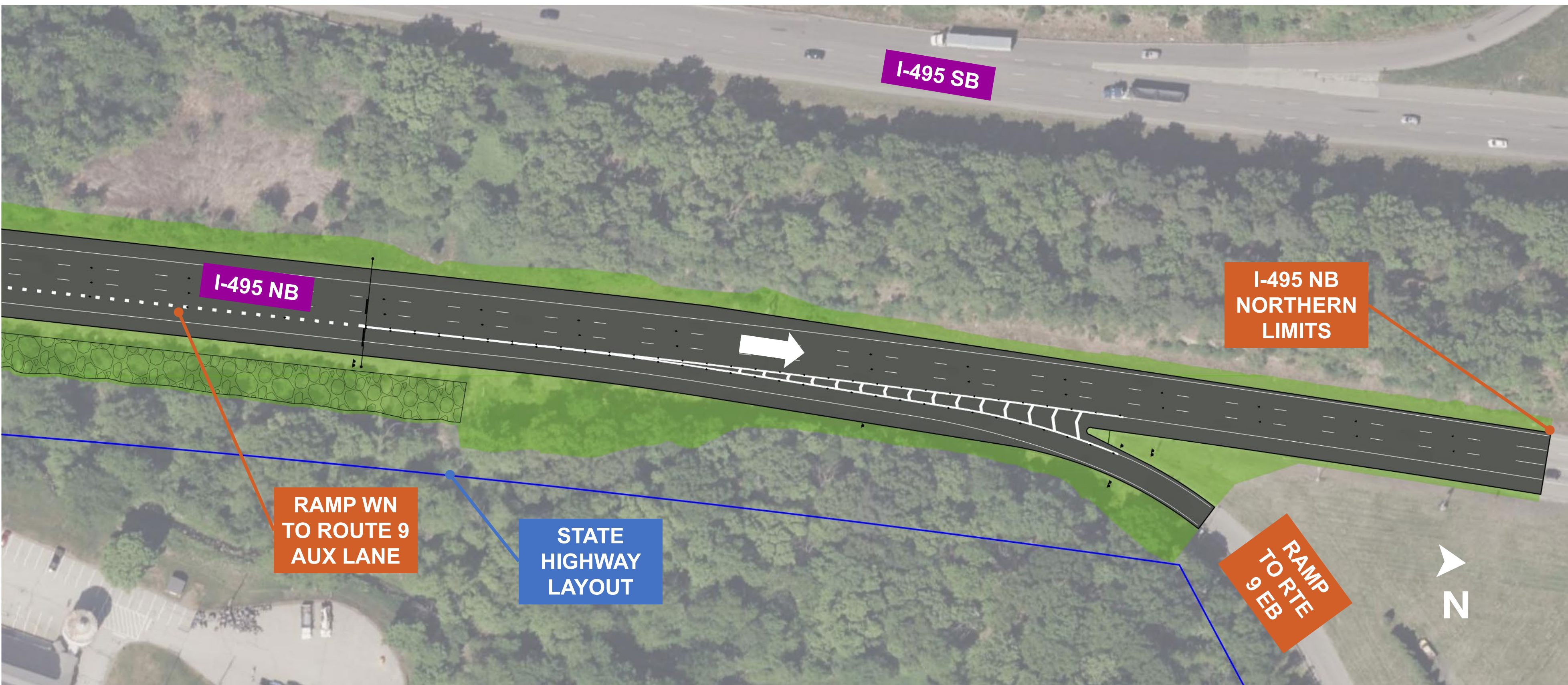
Proposed I-495 at Ramp WN and Flanders Rd



Proposed I-495 BRIDGE SECTION – over Flanders



Proposed I-495 at Route 9 (Northern Limits)

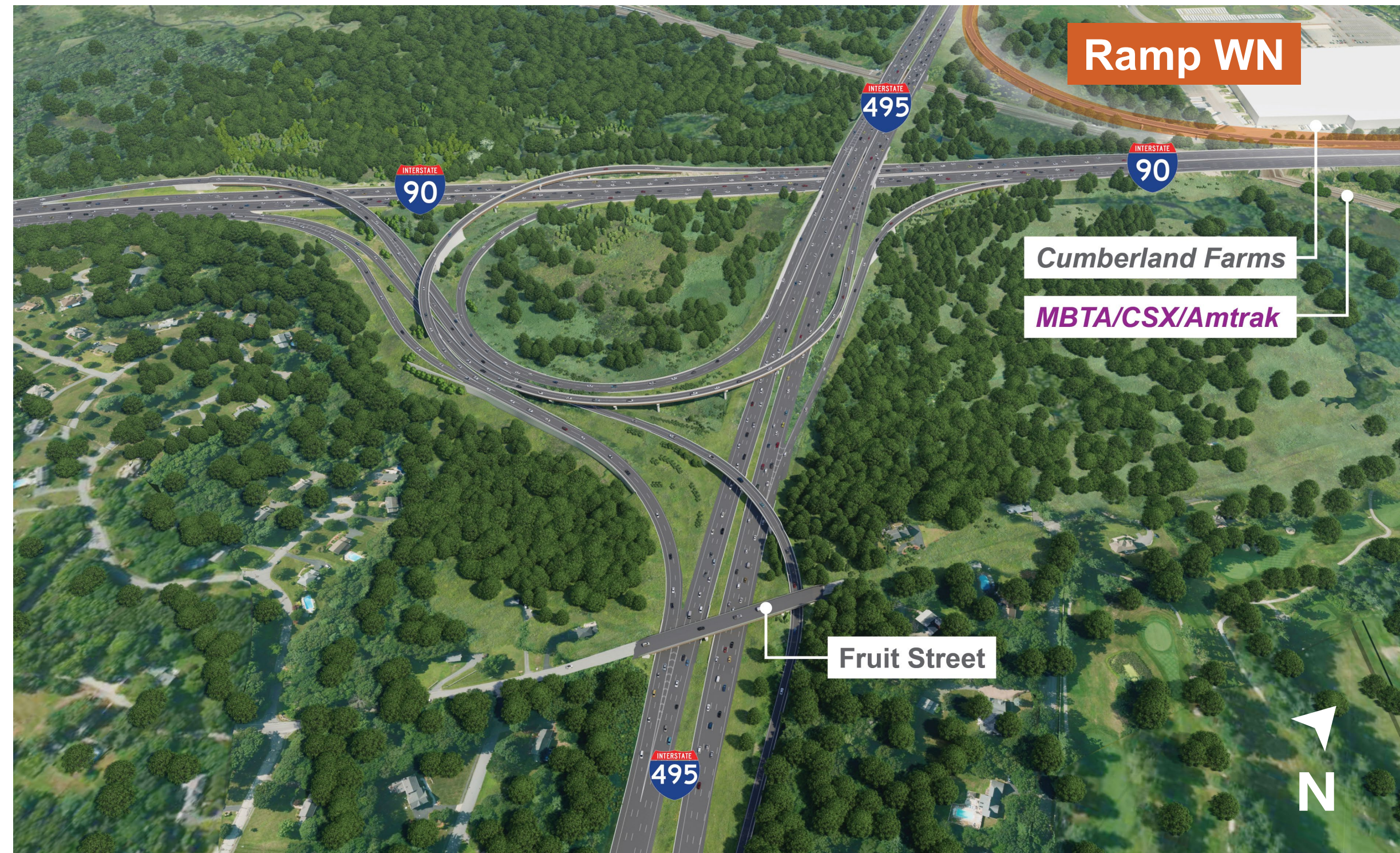




Ramp WN

Ramp WN

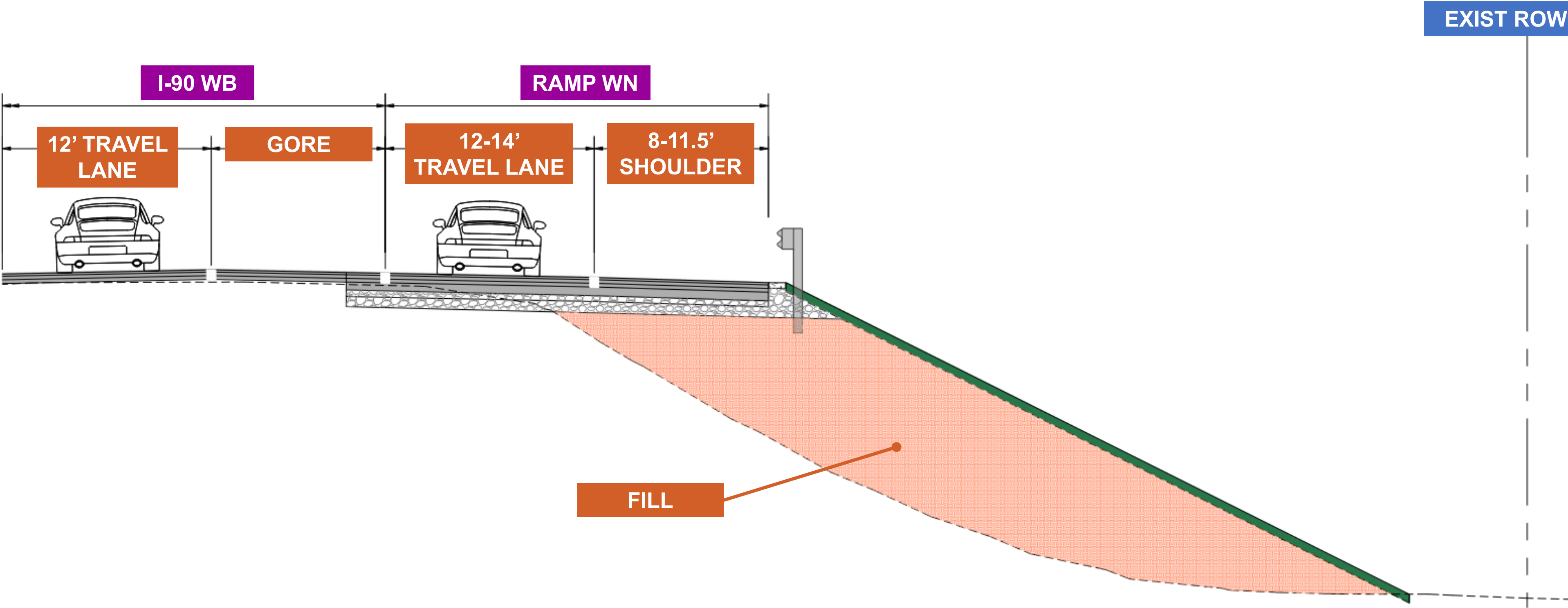
- New direct ramp provided between I-90 WB and I-495 NB
- Single lane ramp
- Entrance to I-495 NB begins additional 4th lane NB to Route 9
- ~1500 feet of the new ramp is on bridge over the Cumberland Farms spur tracks
- Includes new acceleration and deceleration lanes along I-495 NB and I-90 WB
- Wetland restoration included



Ramp WN

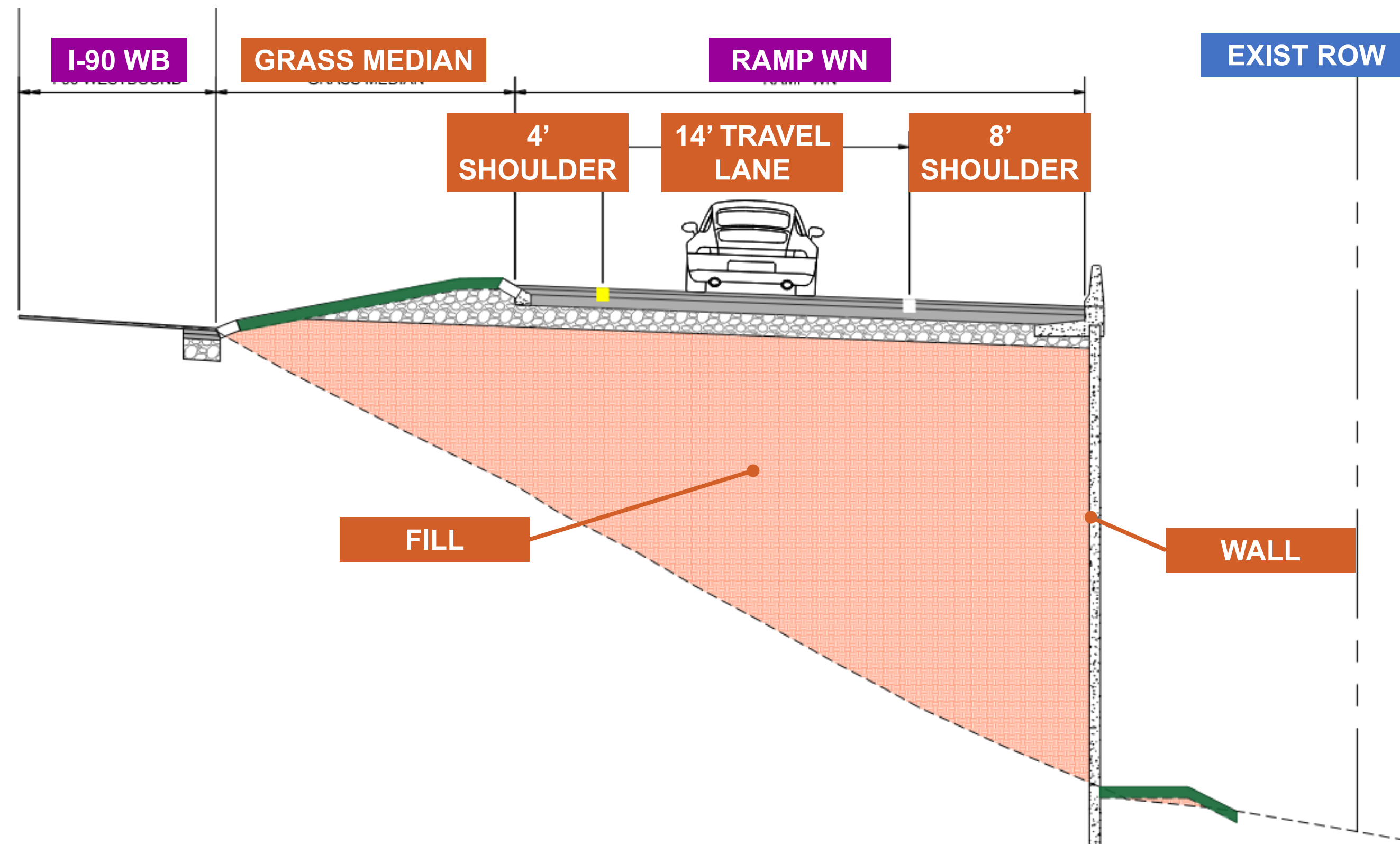


Ramp WN —Section along I-90

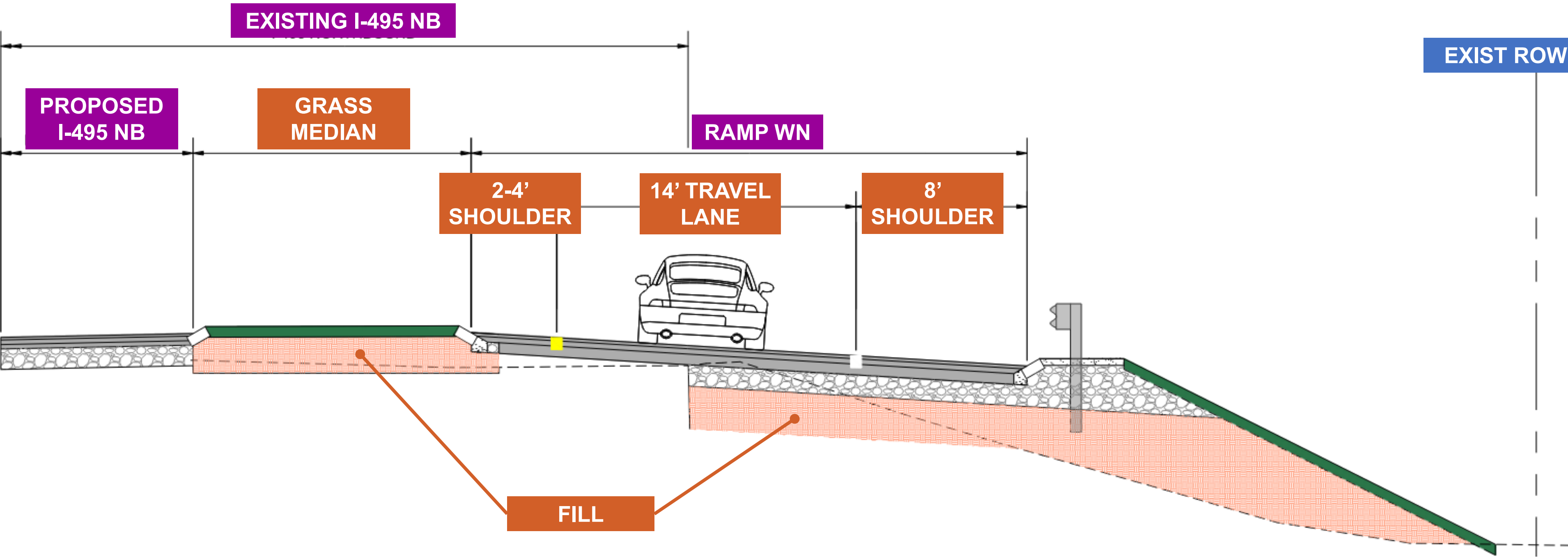


Ramp WN —Typical Section

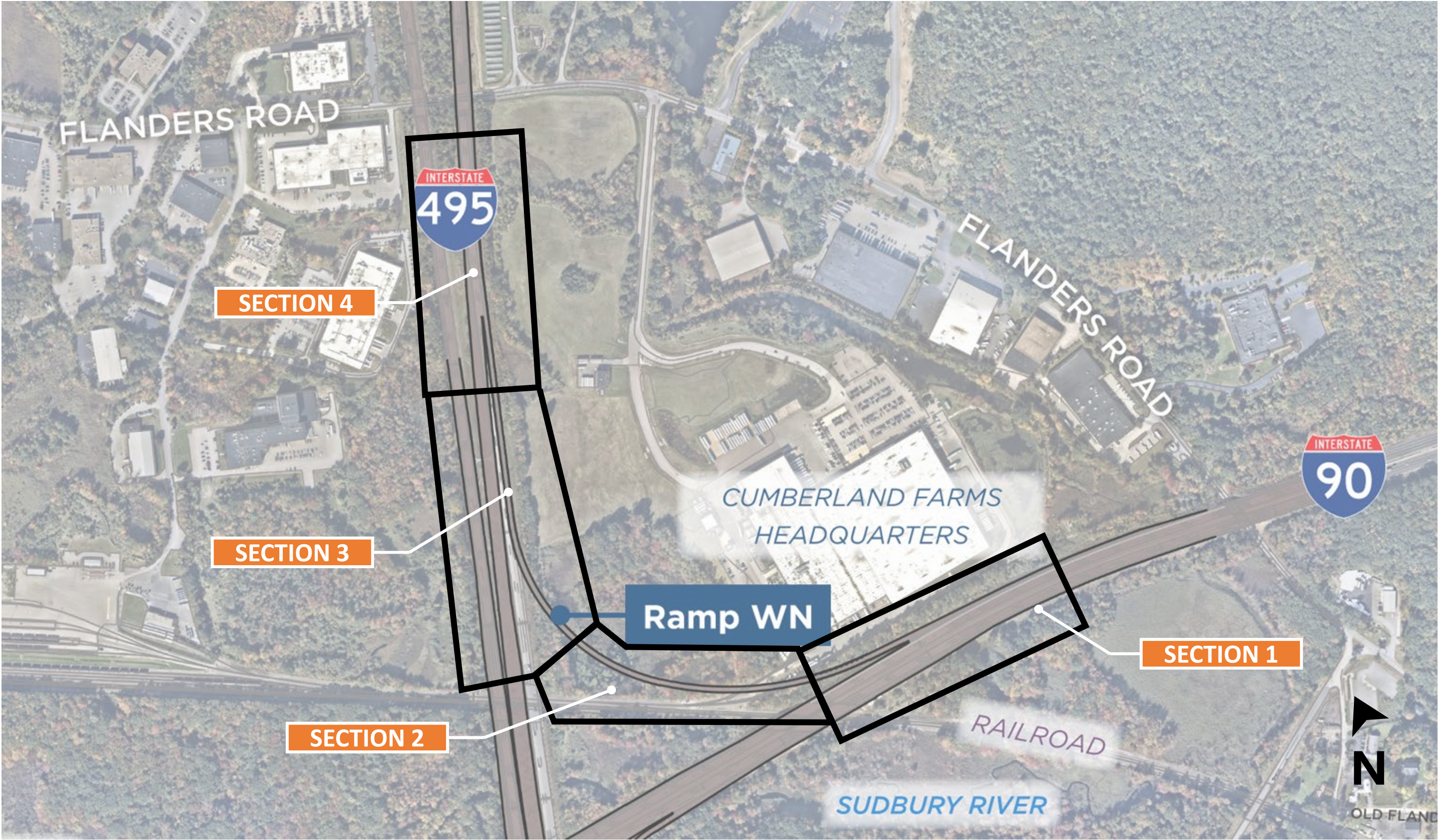
- Typical Ramp width is 26 feet, consisting of a single travel lane with shoulders
- Retaining wall will limit impacts to adjacent property and environmental resources
- Additional widening of I-90 WB to add a deceleration lane to the ramp
- Additional widening of I-495 NB to add an acceleration lane from the ramp
- ~1500 feet of the new ramp is on bridge over the Cumberland Farms spur tracks



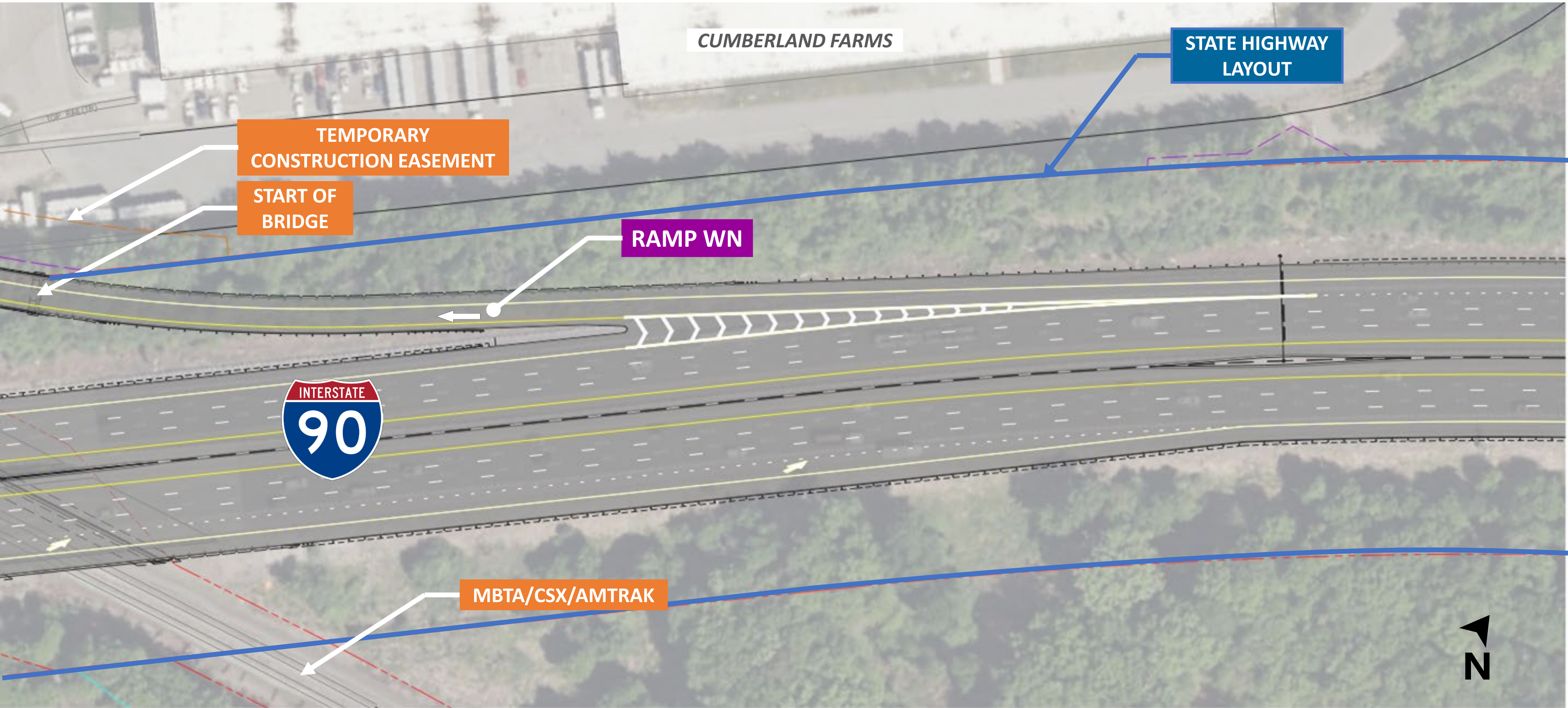
Ramp WN —Section along I-495



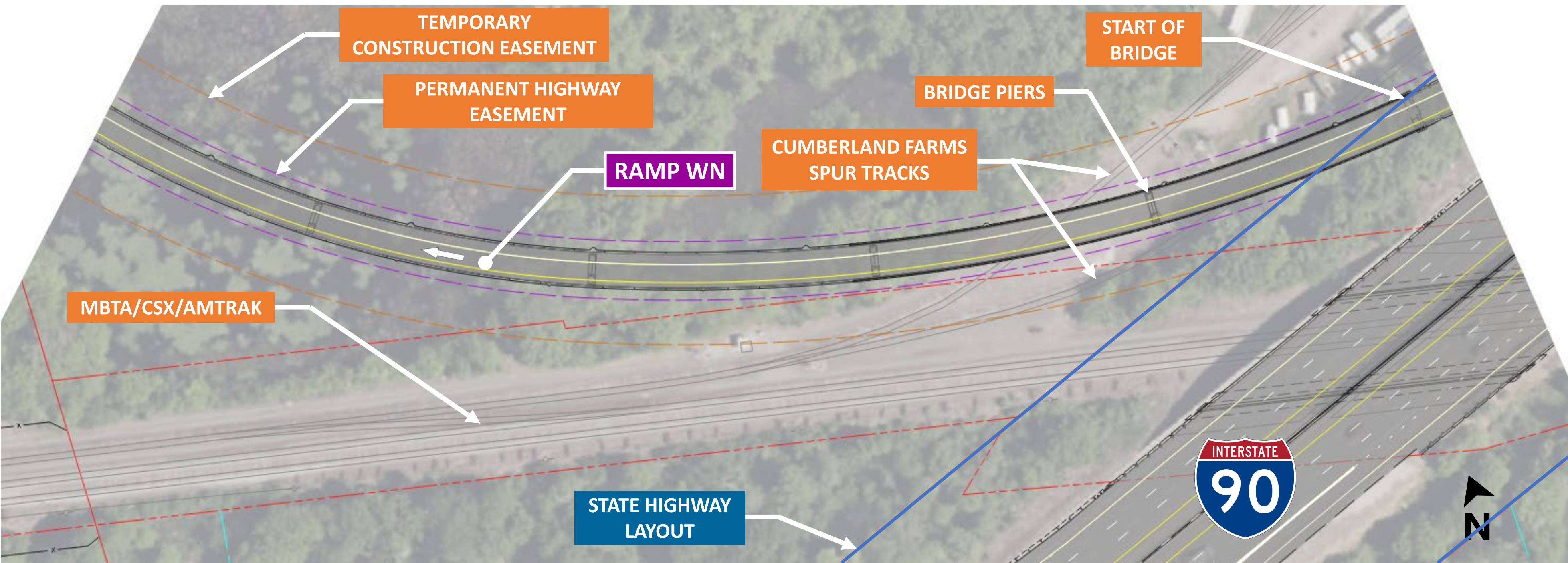
Ramp WN—Proposed Conditions



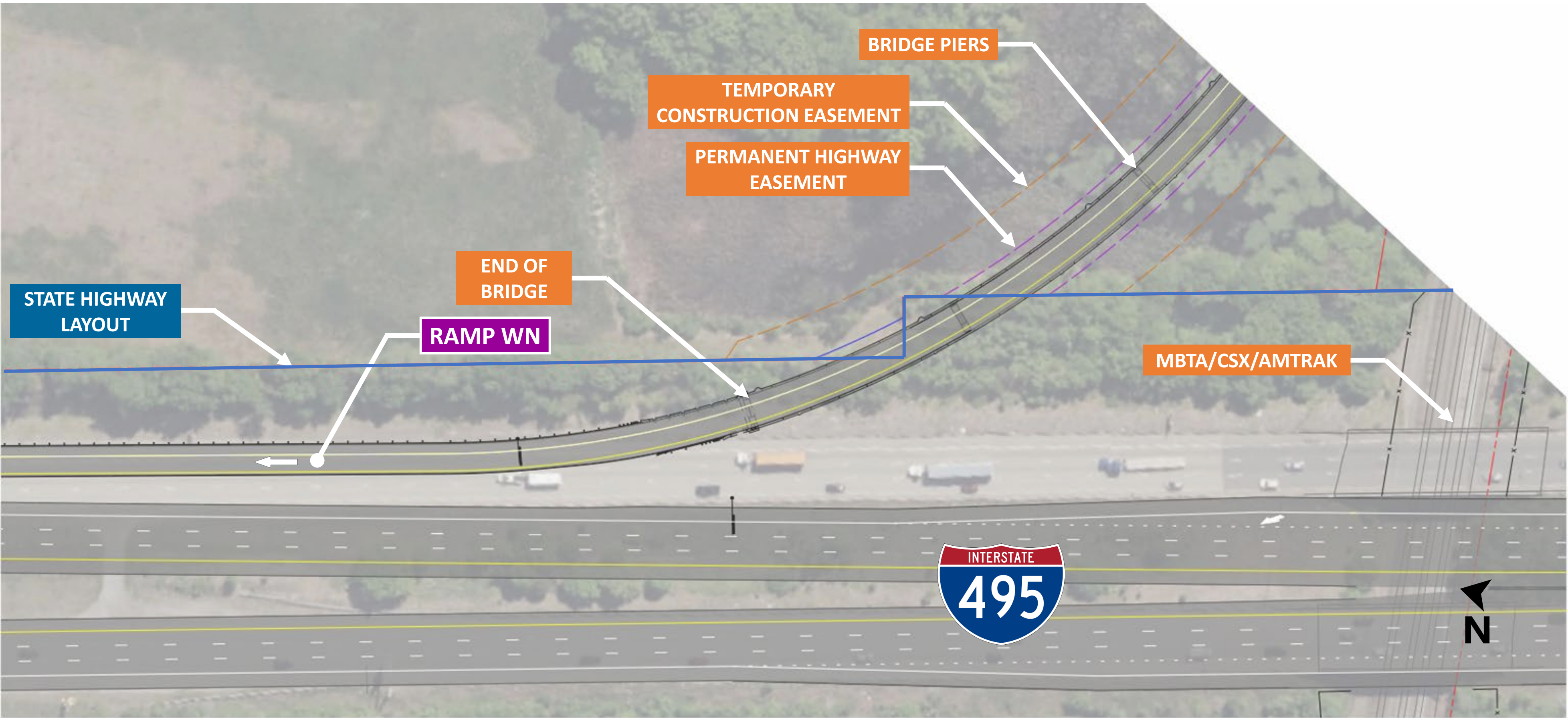
Section 1



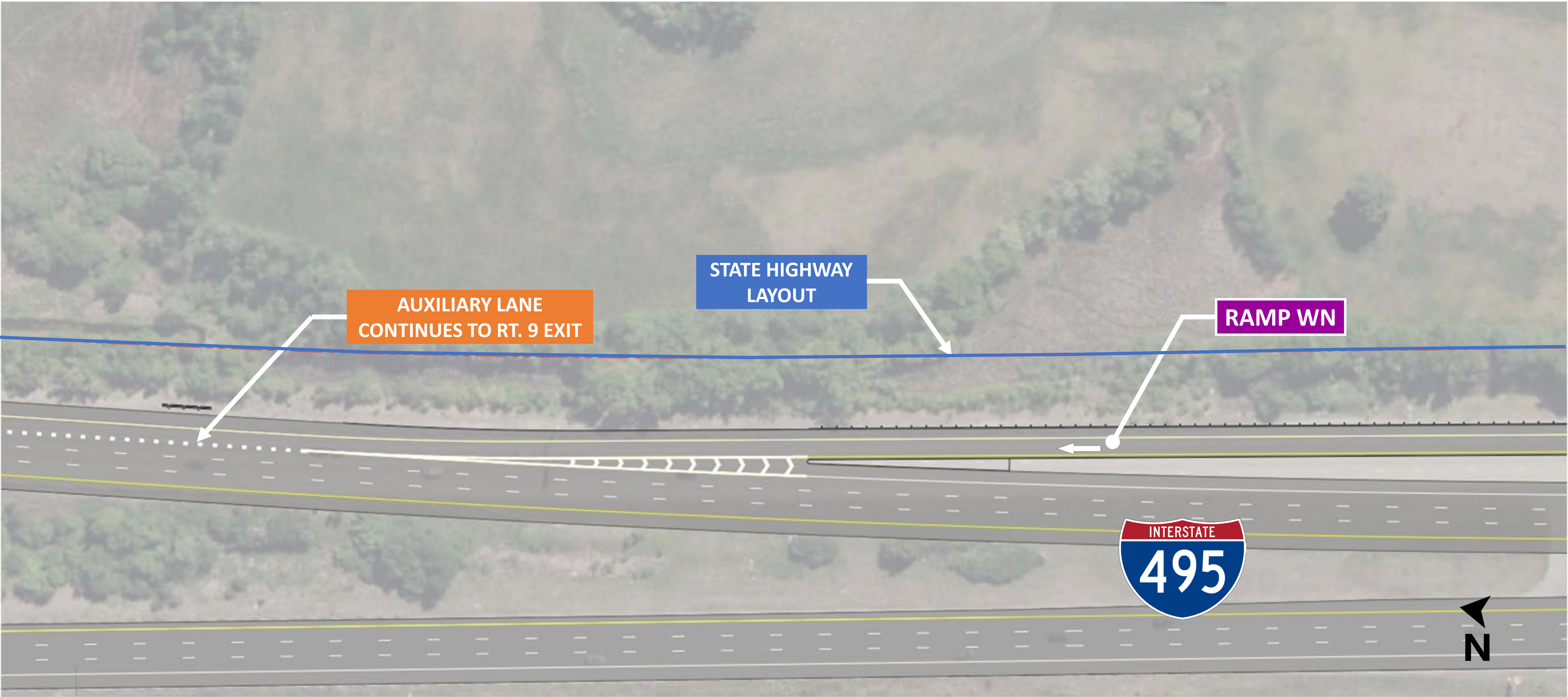
Section 2



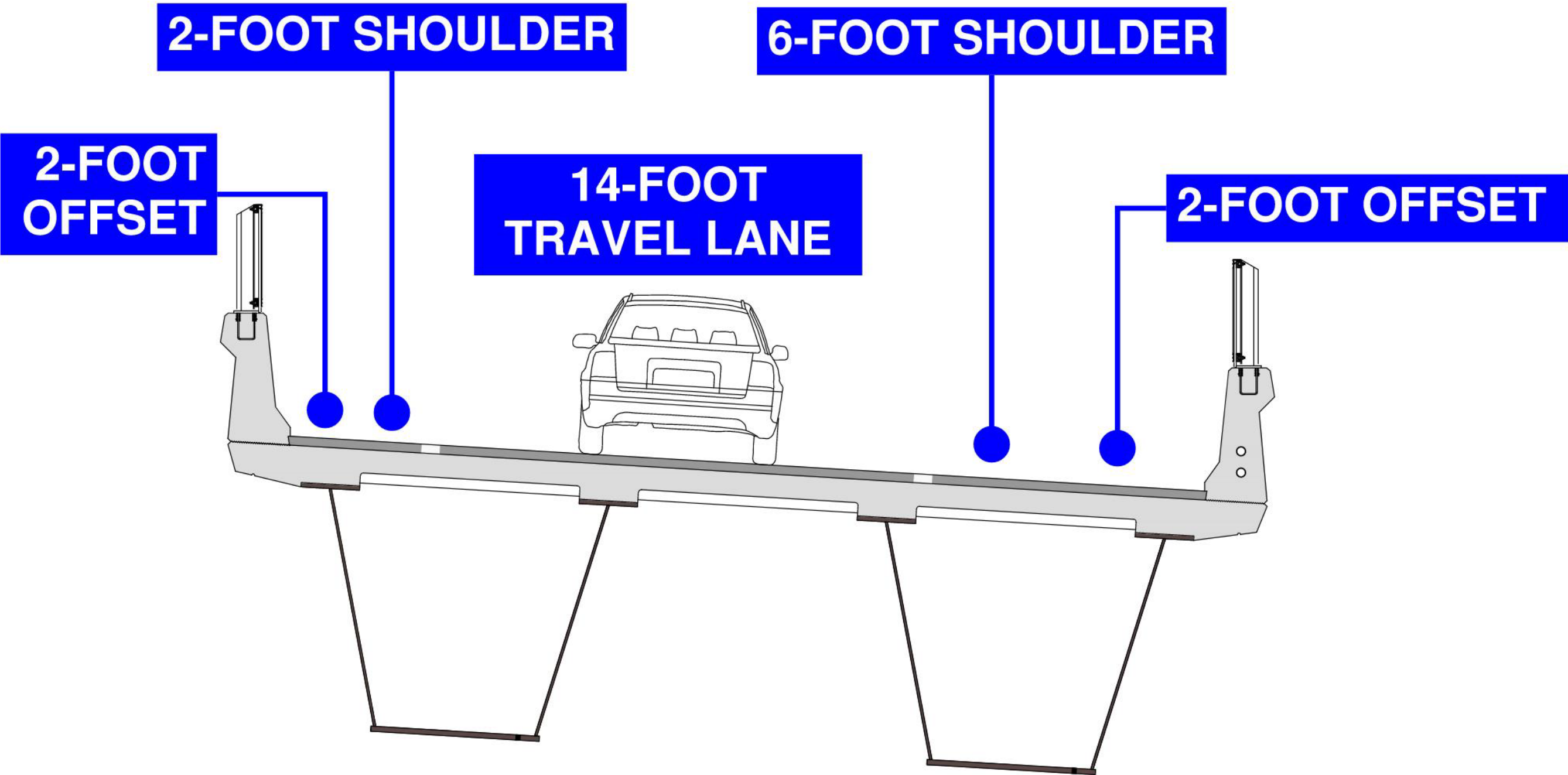
Section 3



Section 4



Typical Bridge Section – Proposed



Ramp WN Wetland Impact Mitigation and Restoration

- Temporary Impacts will be restored in place with in-kind materials to what is present today
- Permanent Impacts will be mitigated by providing new wetland area elsewhere within the interchange





Outreach and Communication Plan

Public Outreach Schedule

| Task | Date | Details |
|--|--|--|
| Legislative Briefing | October 26, 2022 | Completed |
| 495 Partnership Meeting | November 3, 2022 | Completed |
| Public Meeting | November 16, 2022 | Completed |
| Hopkinton North Woods Coalition Neighborhood Meeting | January 10, 2023 | Completed |
| 75% Design—Fruit Street/ Ramps ES, SE | January 25, 2023 | Completed |
| 75% Design—I-495 & Ramp WN | April 26, 2023 | Completed |
| 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">• November 2022• December 2022• January 2023• Continuing monthly or as-needed | Emails will announce new construction information and future meetings |
| Project Website | <ul style="list-style-type: none">• Regular updates | Ongoing—to be updated continually throughout project |

Stay Connected

Staying Connected

- Project website—updated regularly with construction and traffic information
- **Please join our mailing list! You can sign up on the project website.**

Project website

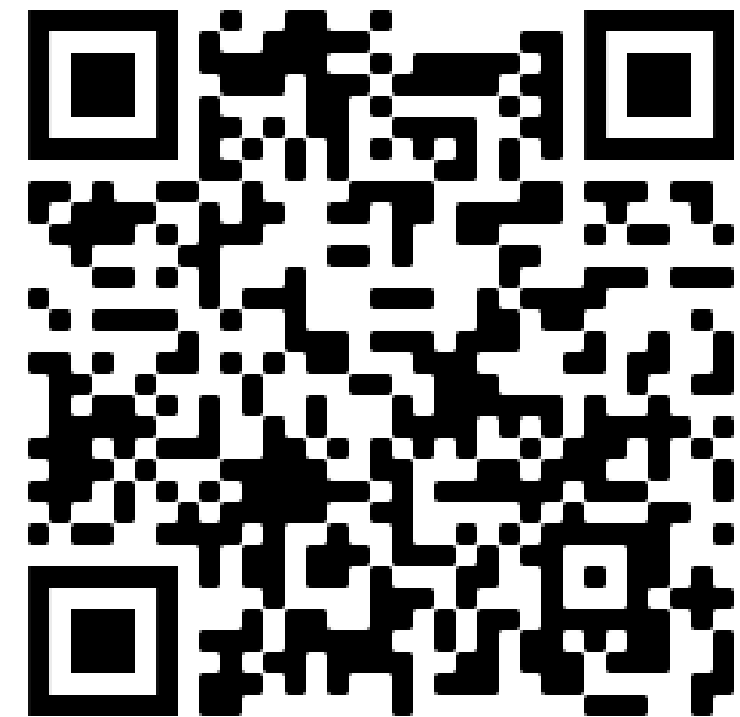
<https://www.mass.gov/i-495i-90-interchange-improvements>

Project email

495-90Improvements@state.ma.us

Social media

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





Questions and discussion

Questions and answers



- “Raise your hand” to be unmuted for verbal questions (Alt + Y)



- Submit your questions and comments using the Q&A button (Alt + H)



- Please state your name before your question



- Please share only 1 question or comment at a time, limited to 2 minutes, to allow 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



- Please take a few minutes to complete the survey after the meeting to let us know how your experience was with this virtual meeting

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



Thank You

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Stage 1 – I-495 NB

- Work in existing median.
- Bridges over I-90 and Railroad constructed.
- Widening for I-495 NB fourth lane and Ramp WN Accel Lane.



Stage 1 – Ramp WN

- Traffic along I-495 NB and I-90 WB will be shifted to facilitate construction of Ramp WN.

