



GREENVILLE AVENUE (US 11) CORRIDOR IMPROVEMENT STUDY

Public Information Meeting

October 23, 2019



VDOT STARS PROGRAM OVERVIEW

- Strategically Targeted Affordable Roadway Solutions
- Safety and Operational Focus
- Multi-modal Considerations (Pedestrian, Transit, Bicycles)
- Collaborative Study Team
- Funding Application Ready Recommendations (Smart Scale)



GREENVILLE AVENUE (US 11) CORRIDOR IMPROVEMENT STUDY

PURPOSE OF TODAY'S PUBLIC INFORMATION MEETING

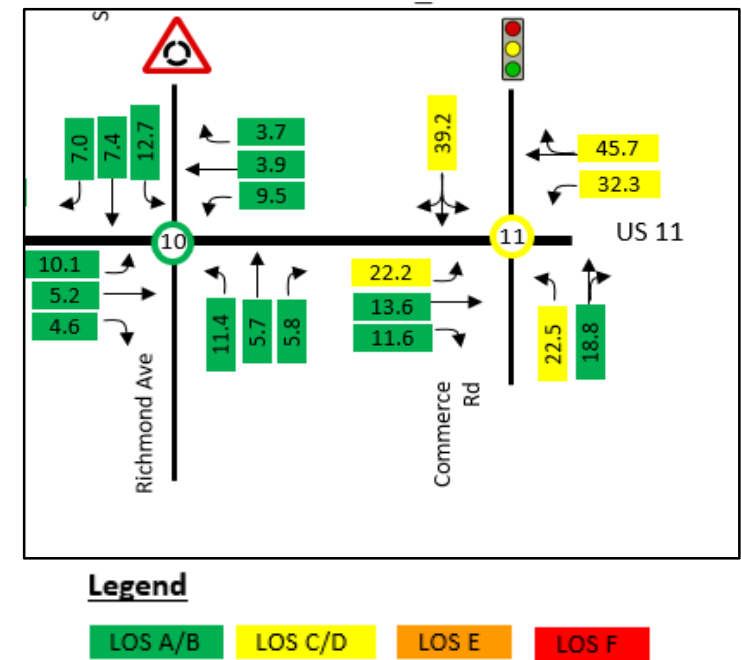
- **Share Identified Needs of the Corridor**
- **Have we Captured All Needs of Corridor Users?**
- **Present Corridor Recommendations for Public Feedback**
- **Incorporate Public Feedback to Finalize Study for Locality Consideration of Adoption**

STUDY CORRIDOR



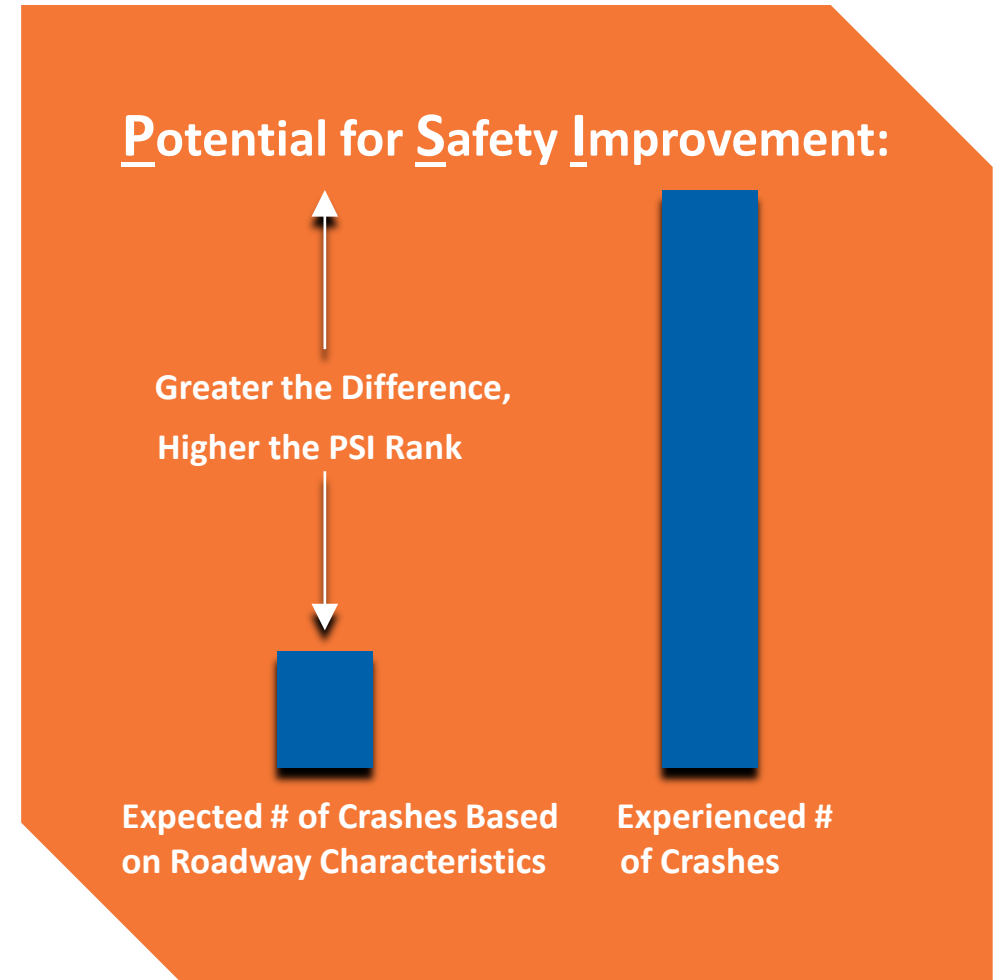
NEEDS OF THE CORRIDOR – VEHICLE OPERATIONS

- **PM Peak Hour = Highest volumes in both directions**
- **Unacceptable conditions limited to the Richmond Ave and Commerce Rd intersections and individual movements at unsignalized intersections (Ritchie Blvd)**
- **Traffic volumes reduce considerably at Statler Blvd (Daily traffic = 16,000 to south, 10,000 to north)**



NEEDS OF THE CORRIDOR – CRASH DATA (2013-2017)

- **215 total crashes**
- **3/4th of the study segment has PSI**
- **Intersections within top 100 PSI:**
 - US 11 at Commerce Road (Rank: 17)
 - US 11 at Barterbrook Road (Rank: 36)
 - US 11 at Richmond Avenue (Rank: 42)
- **Angle collision - 47%**
- **55% crashes – from 12 PM to 6 PM**
- **One crash related to fatality**
- **One crash involved pedestrian**



NEEDS OF THE CORRIDOR – CONFLICT POINTS

- **Corridor Wide Entrance Spacing Deficiency**
- **More Entrances Results in more Conflict Points / Crash Potential**
- **Reducing Conflict Point Can Result in Enhanced Safety / Better Corridor Progression**

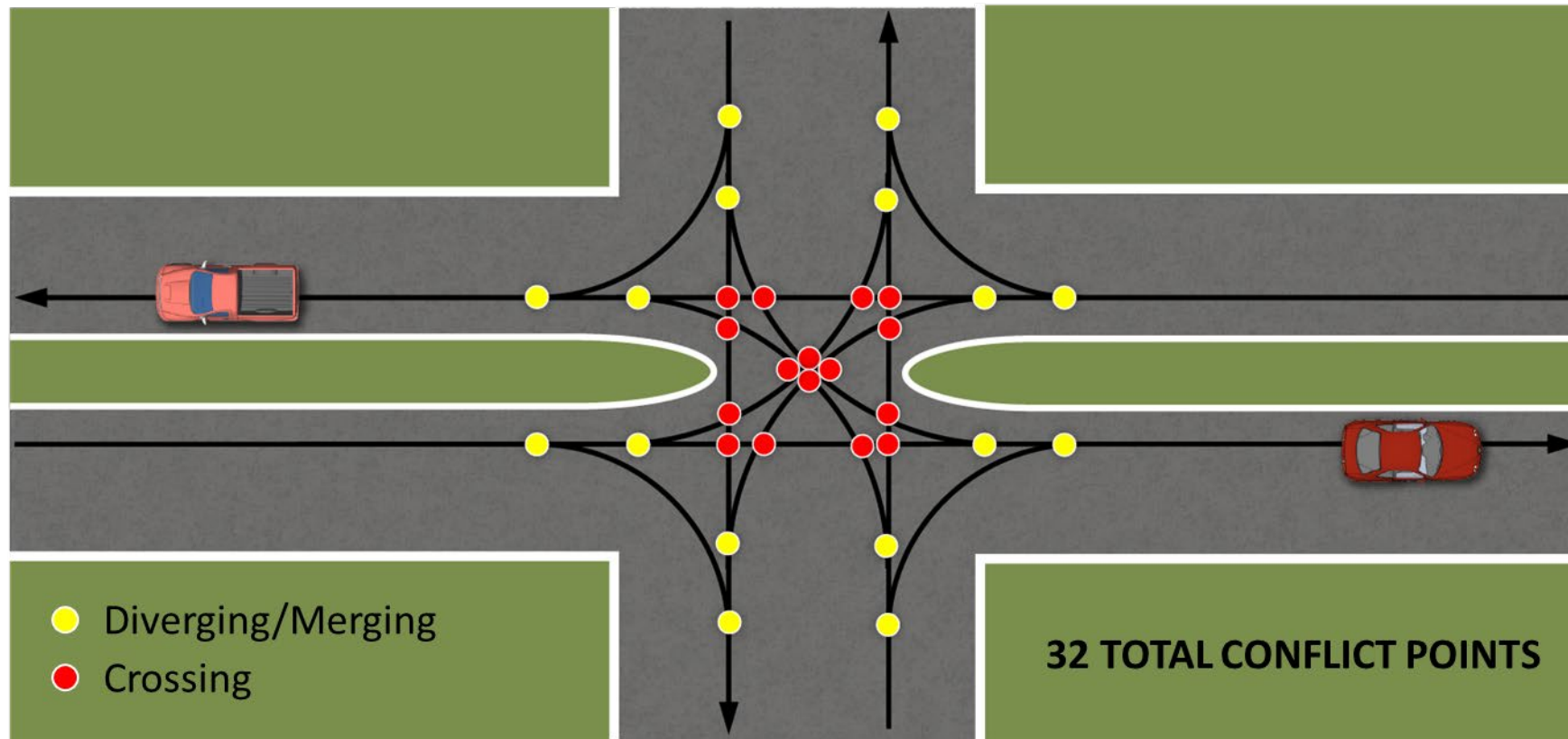


VDOT Standards / Best Practices:

565' min. spacing between full access entrances along a Principal Arterial posted at 35-45 mph

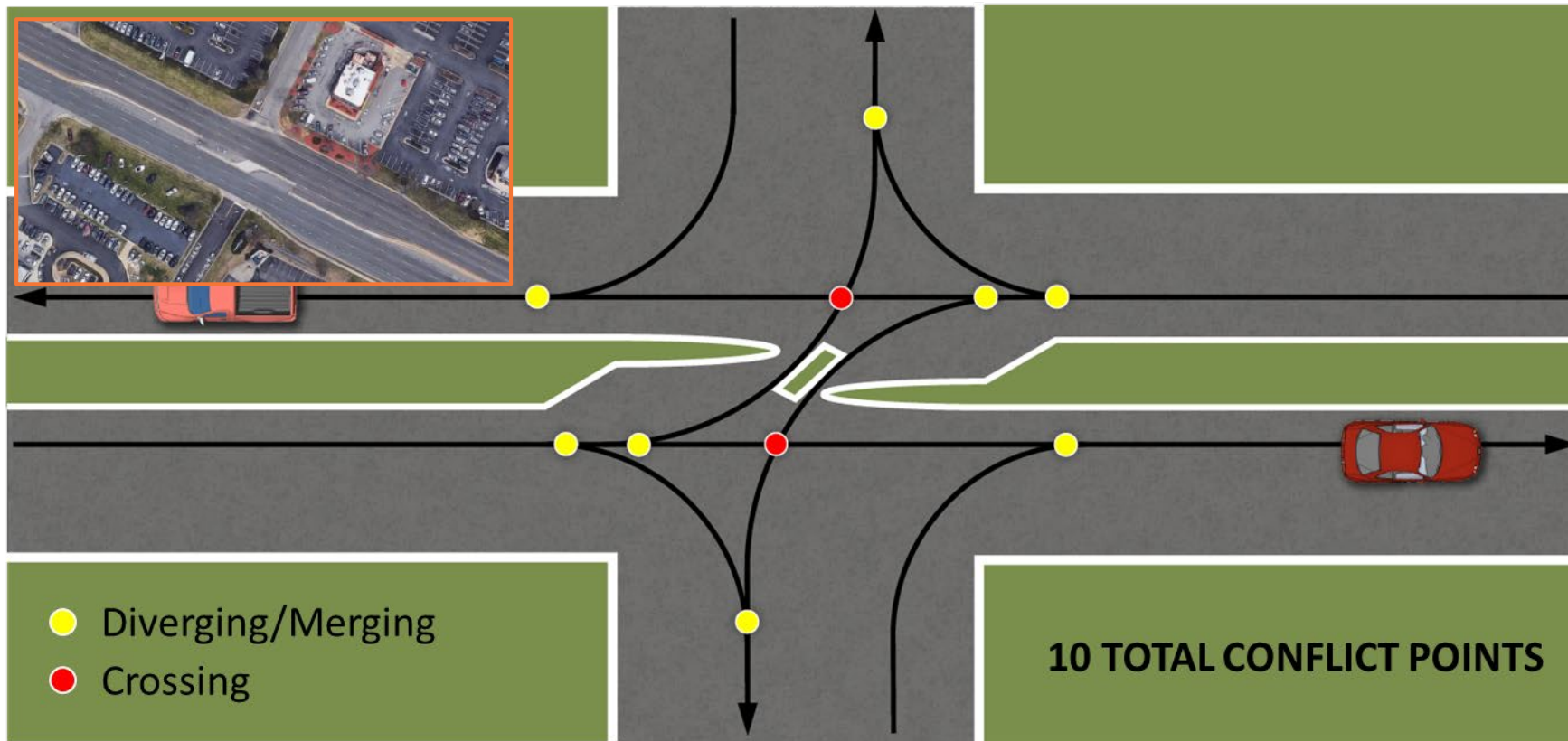
NEEDS OF THE CORRIDOR – CONFLICT POINTS

▪ Conflict Points – Full Median Opening



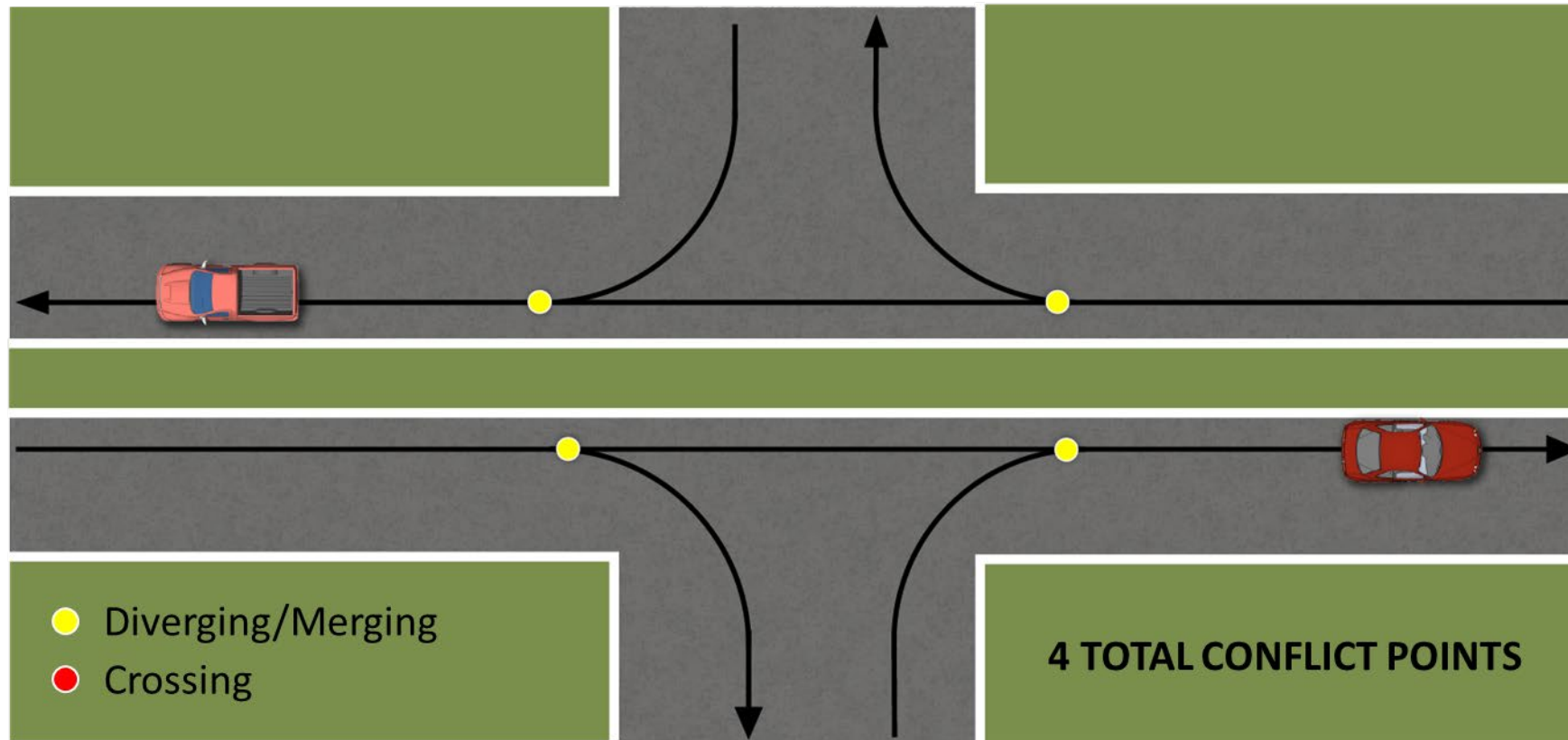
NEEDS OF THE CORRIDOR – CONFLICT POINTS

▪ Conflict Points – Directional Median Opening (68% Reduction)



NEEDS OF THE CORRIDOR – CONFLICT POINTS

▪ Conflict Points – Right-In/Right-Out Driveway (88% reduction)



ADDITIONAL NEEDS OF THE CORRIDOR

- **Improve existing non-motorized accommodations (ADA sidewalk requirements, improve transit stops)**
- **Expand the non-motorized network (bicycle facilities, pedestrian crossings)**
- **Aesthetic improvements (corridor serves as a city gateway)**



RECOMMENDATION DEVELOPMENT CONSIDERATIONS

- **Reducing Conflict Points (Focusing on Intersections)**
- **Maintaining Access along Corridor**
- **Accommodating all Users of the Corridor**
- **Opportunities for Corridor Gateway Treatments**



CORRIDOR WIDE RECOMMENDATIONS

- **Pedestrian Improvements**
- **Signal Operation Improvements**
- **Recommend Access Improvements as the Corridor Redevelops in the Future**
- **Transit Service Improvements (shelters, benches, adjustments to stop locations based on evaluation)**



US 11 FROM BETSY BELL ROAD TO AMHERST ROAD

Issues and Proposed Improvements

Existing Issues

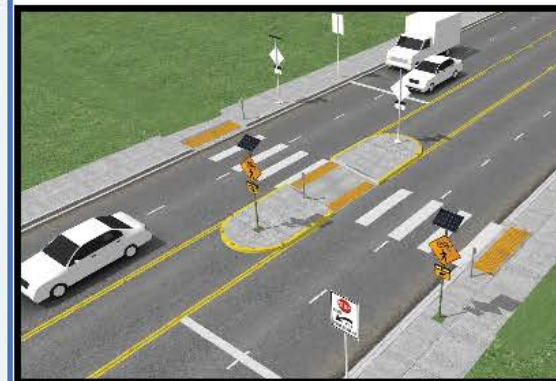


Existing Issue



Pedestrian Crossing at Midblock

Proposed Improvement

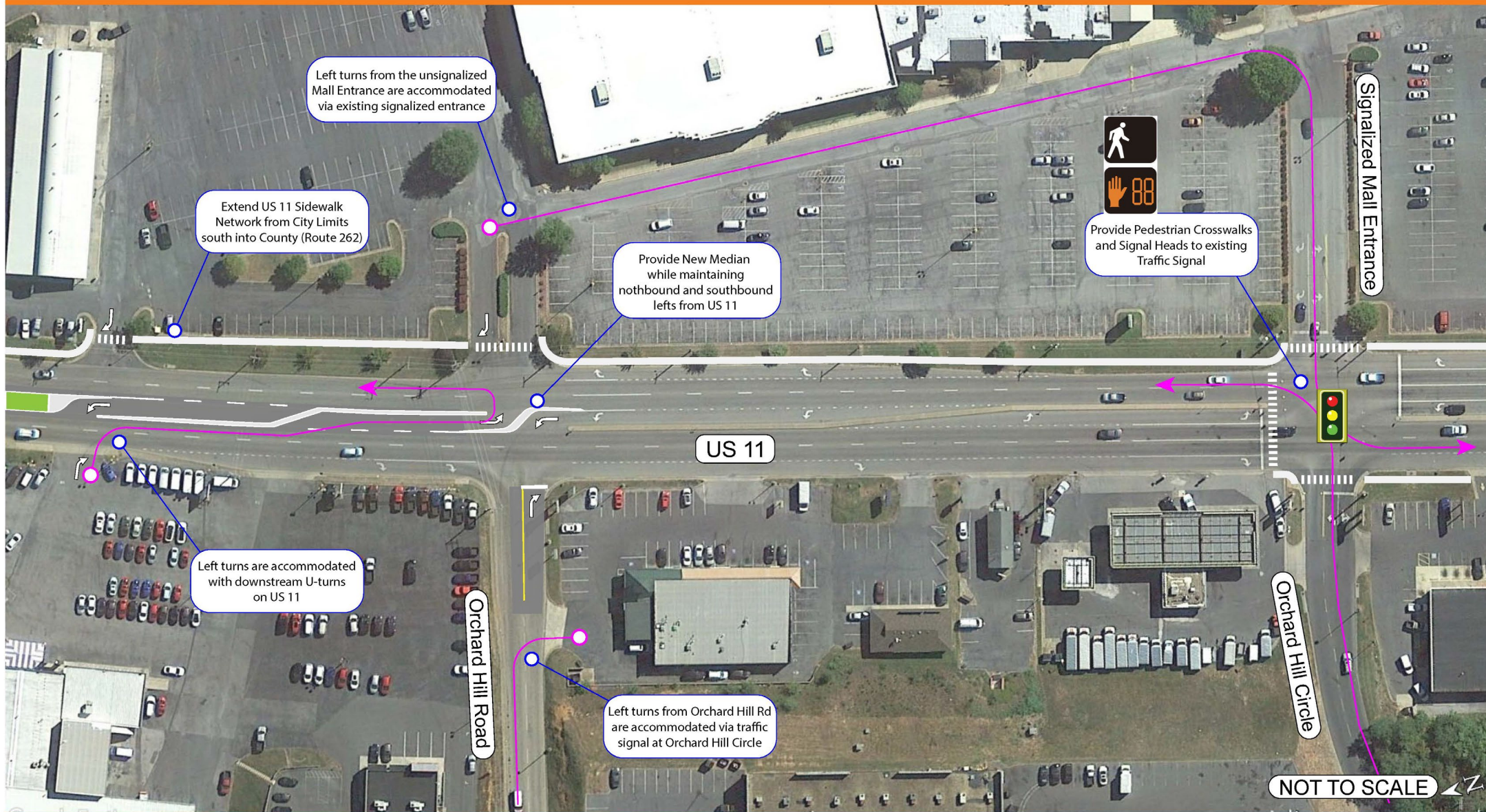


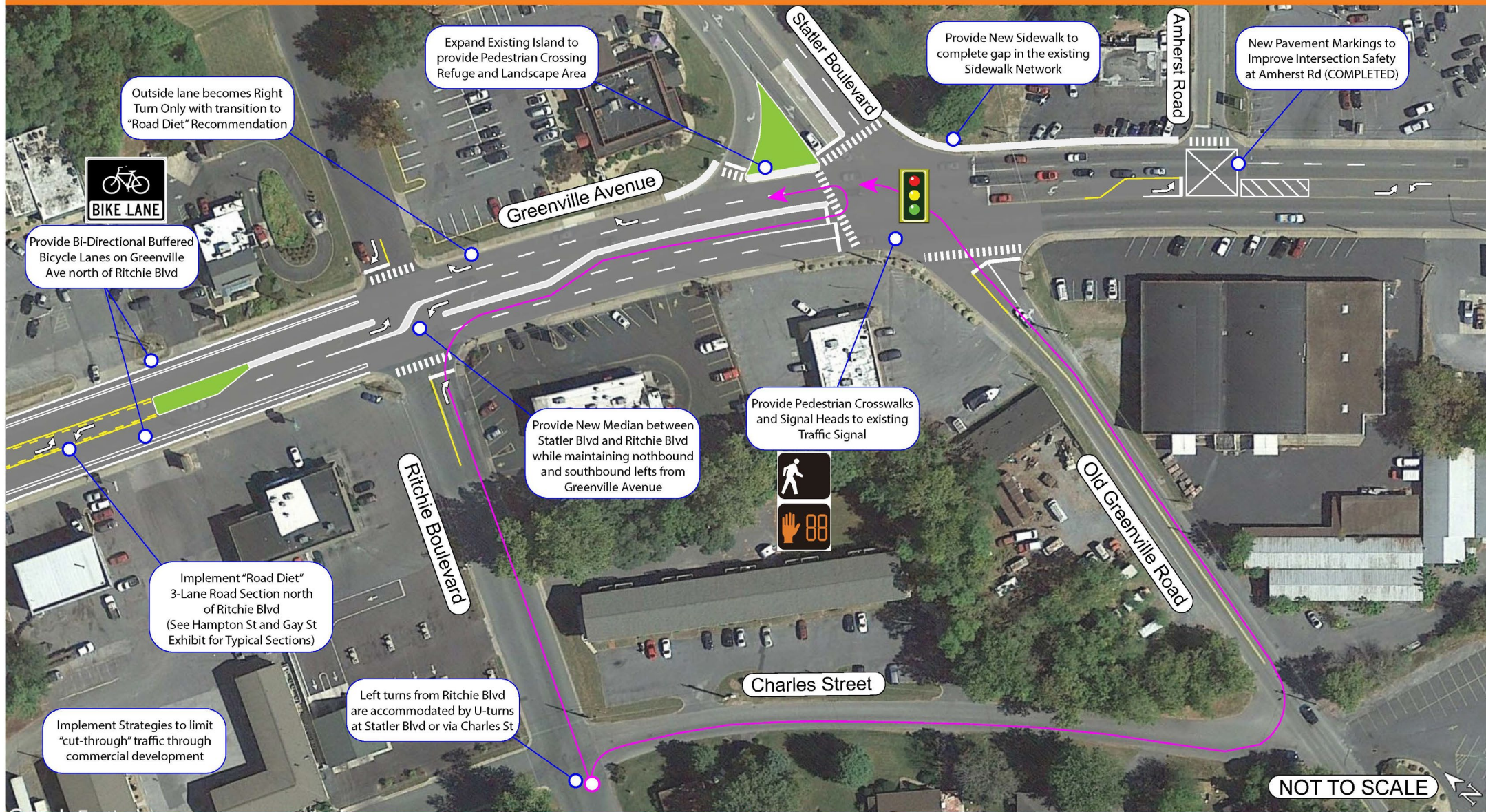
Midblock Crosswalk with a Pedestrian Refuge and Rectangular Rapid Flashing Beacon

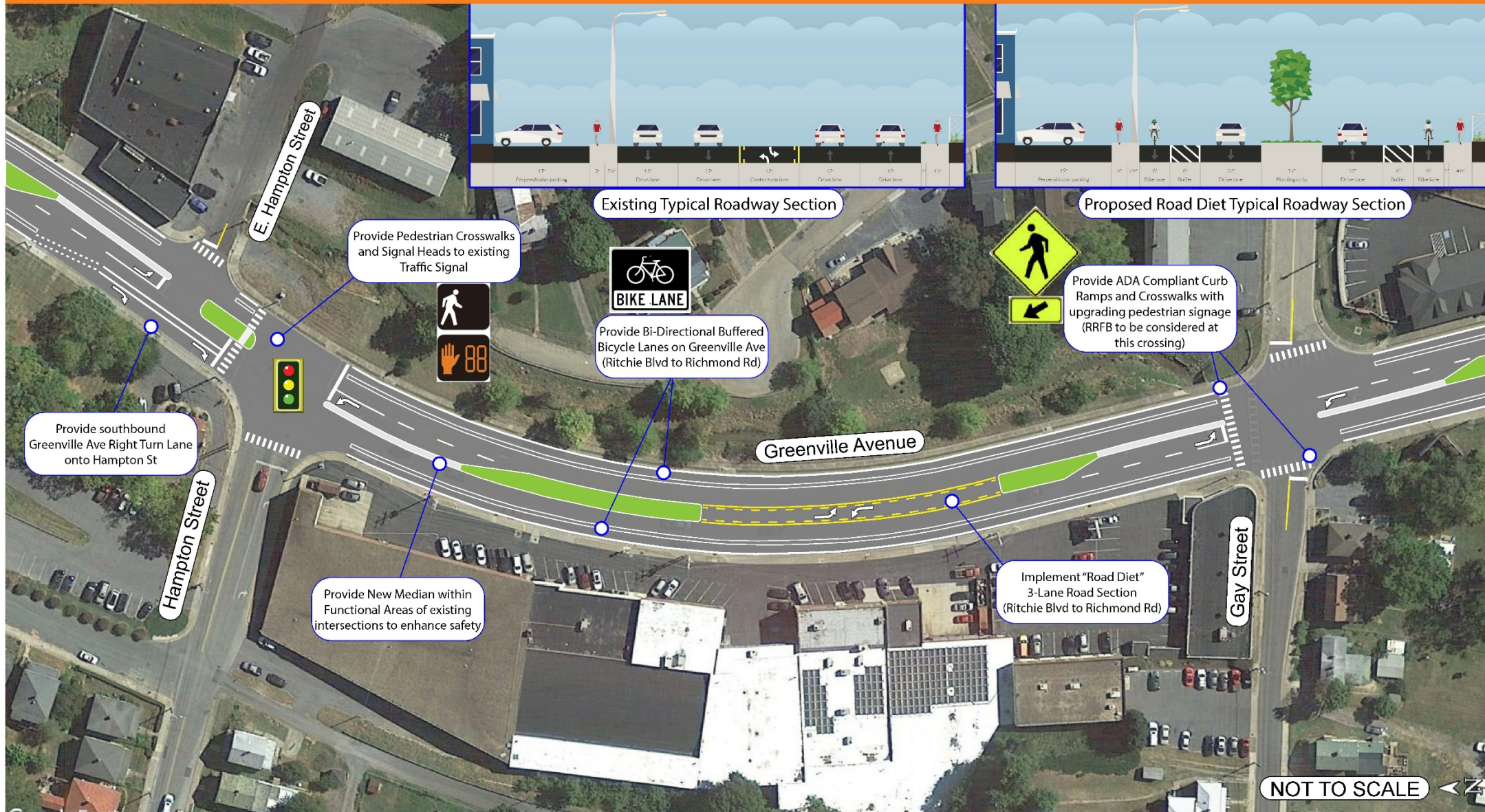
Source: (<https://nacto.org/publication/urban-bikeway-design-guide/bicycle-signals/active-warning-beacon-for-bike-route-at-unsignalized-intersection/>)

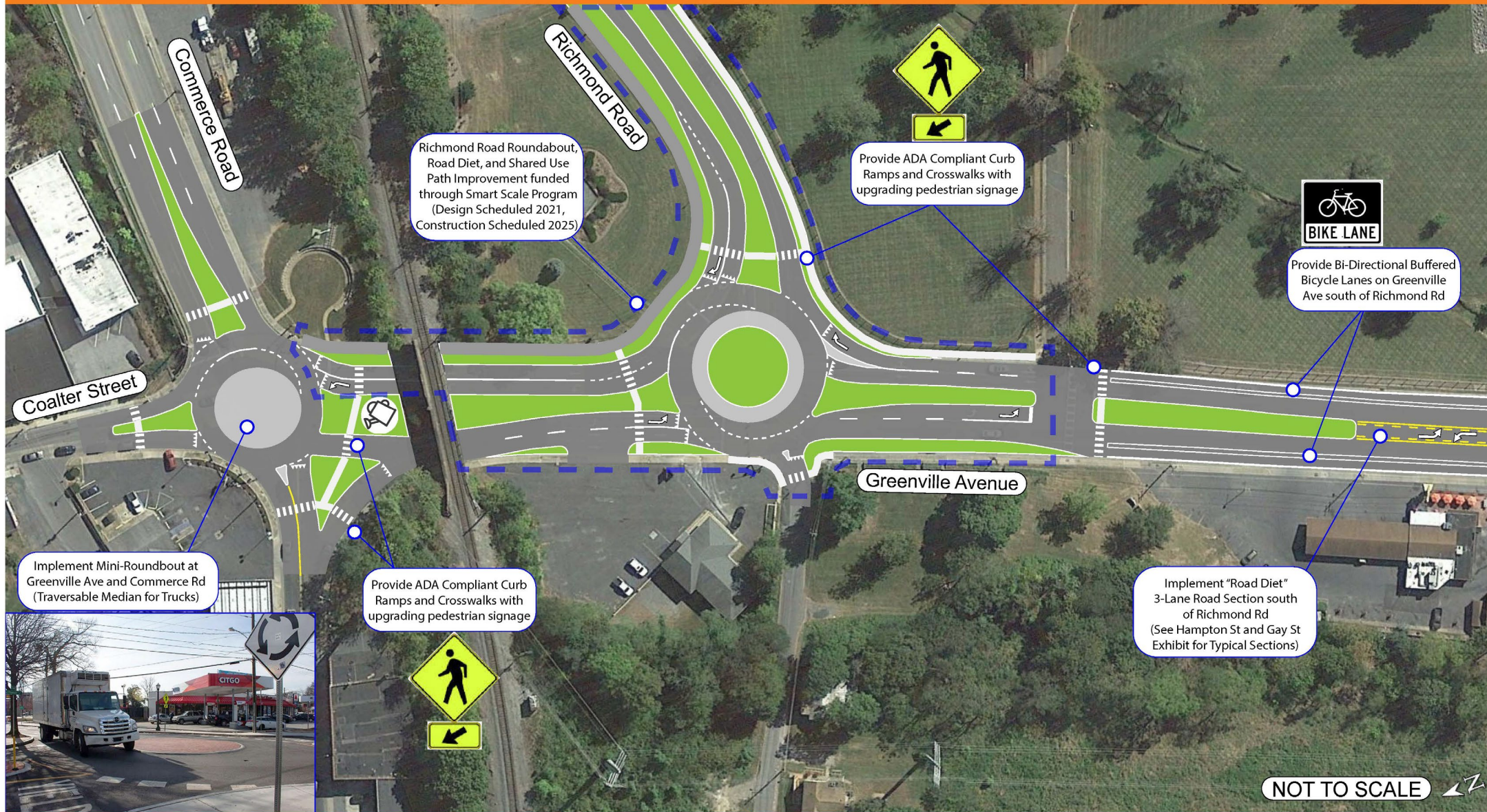
Conceptual Design











NEXT STEPS

- **Review Public Feedback with Study Team**
- **Incorporate Public Comments and Finalize Study**
- **Present the completed Study to Staunton City Council and Augusta County Board of Supervisors for consideration of adoption**
- **Localities can utilize Study Recommendations to submit project applications for state funding consideration**

For more information visit VDOT's Study Page:
https://www.virginiadot.org/projects/staunton/greenville_avenue_corridor_improvement_study.asp

**Contact Adam Campbell with additional
questions and comments:**

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US 11 EXISTING VOLUMES

