

NC 98 Corridor Study

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#NC98study

November 8, 2017



WHERE & WHAT

Project Study Area:

- 27-miles from U.S. 70 in Durham Co. through Wake Co. to U.S. 401 in Franklin Co. (approximately a quarter mile (1/4) on either side of N.C. 98)

This study will evaluate:



Safety & Mobility



Planned & Existing
Roads



Transit



Bicycle/ Pedestrian
Facilities

EXISTING CONDITIONS

Environmentally Sensitive Areas



- Falls Lake, Little River, & Neuse River Watersheds
- Shinleaf Recreation Area
- Parks
- Trails

Several Types of Land Uses



- Transportation
- Recreational
- Agricultural
- Residential
- Educational Institutions
- Natural Environment
- Commercial

Traffic Generating Facilities



- Schools
- Churches
- Shopping centers
- Activities

Recreation

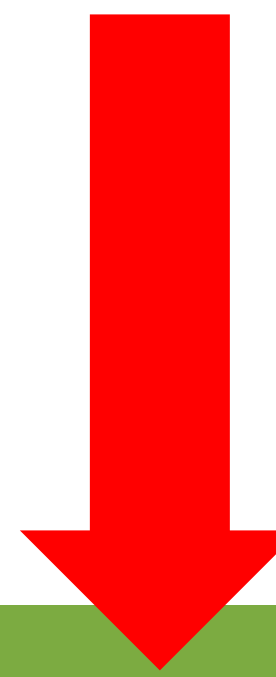


- Cycling
- Boating
- Camping
- Parks & Trails
- Golf

N.C. 98 STUDY SCHEDULE

Project Kick-Off

We are here



REVIEW EXISTING INVENTORY & PLANS

TRANSPORTATION ANALYSIS

CONCEPTUAL DESIGN

IMPLEMENTATION PLAN



Study Oversight Team (SOT) Meeting

Visioning Public Events
Public Meetings
Pop-up Events

Study Oversight Team (SOT) Meeting

Conceptual Design Preference Public Events
Public Meetings
Pop-up Events

Study Oversight Team (SOT) Meeting

Informational Session on Recommendations
Public Meetings

Study Oversight Team (SOT) Meeting

98 CORRIDOR STUDY
NC CAMPO • DCHC MPO • NCDOT

PUBLIC PARTICIPATION

PUBLIC MEETINGS

PARTICIPATION

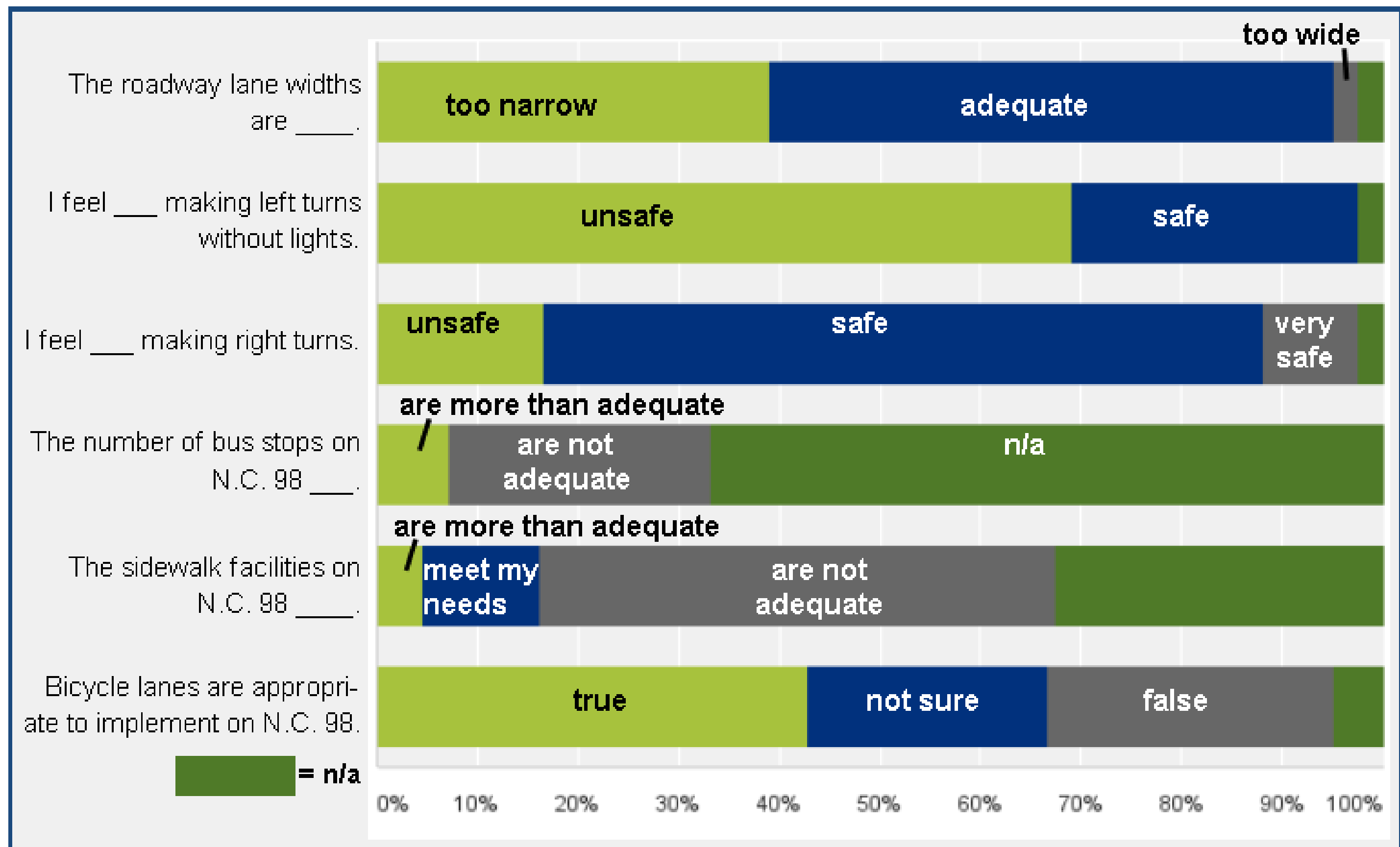
73 Attendees between Wake Forest & Durham

45 Submitted a Comment Form



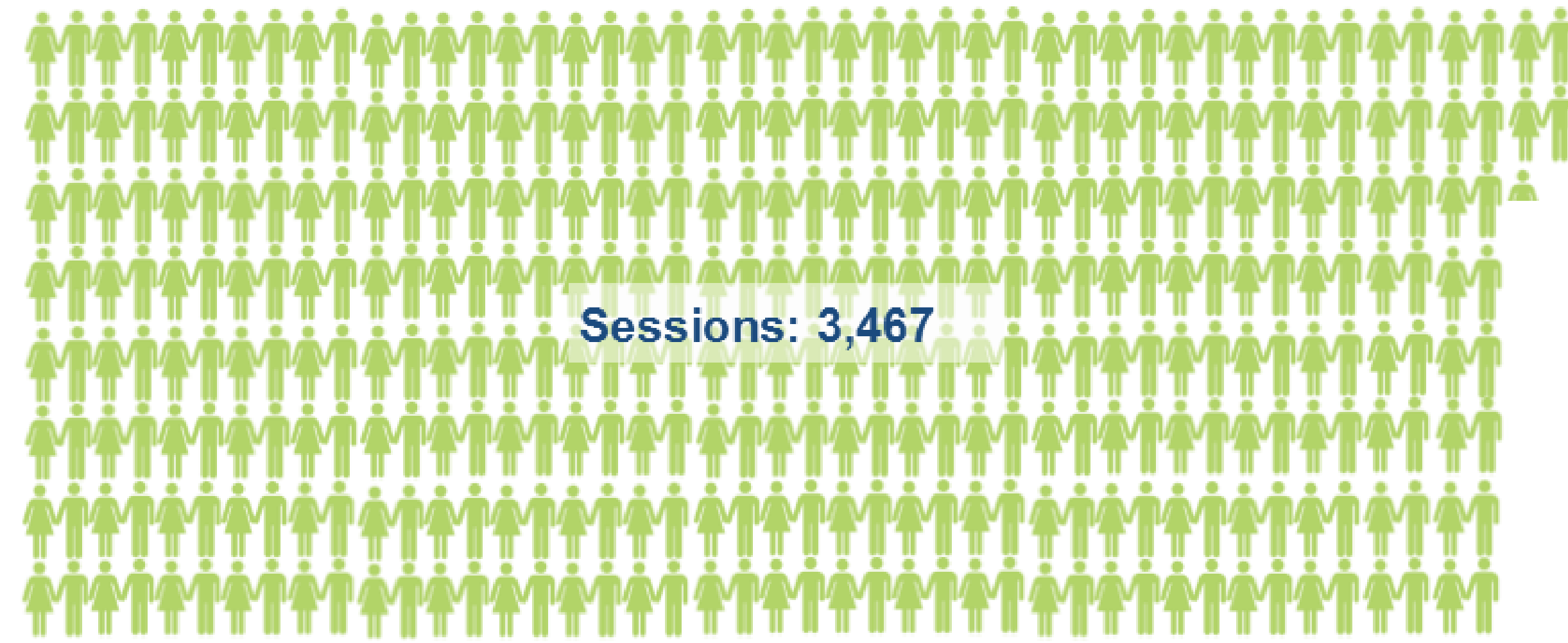
OPPORTUNITIES ALONG THE CORRIDOR

Plan (environmentally sensitive) Development
 Preserve Current State
 Improve Traffic Flow
 Safety
 Add turn lanes/
 widen corridor
 Bike/Pedestrian Facilities
 Intersection/Roadway Improvement
 (connection to off-road facilities)
 Restore Recreation Opportunity
 Multimodal Transportation



ONLINE PARTICIPATION

NC98CorridorStudy.com

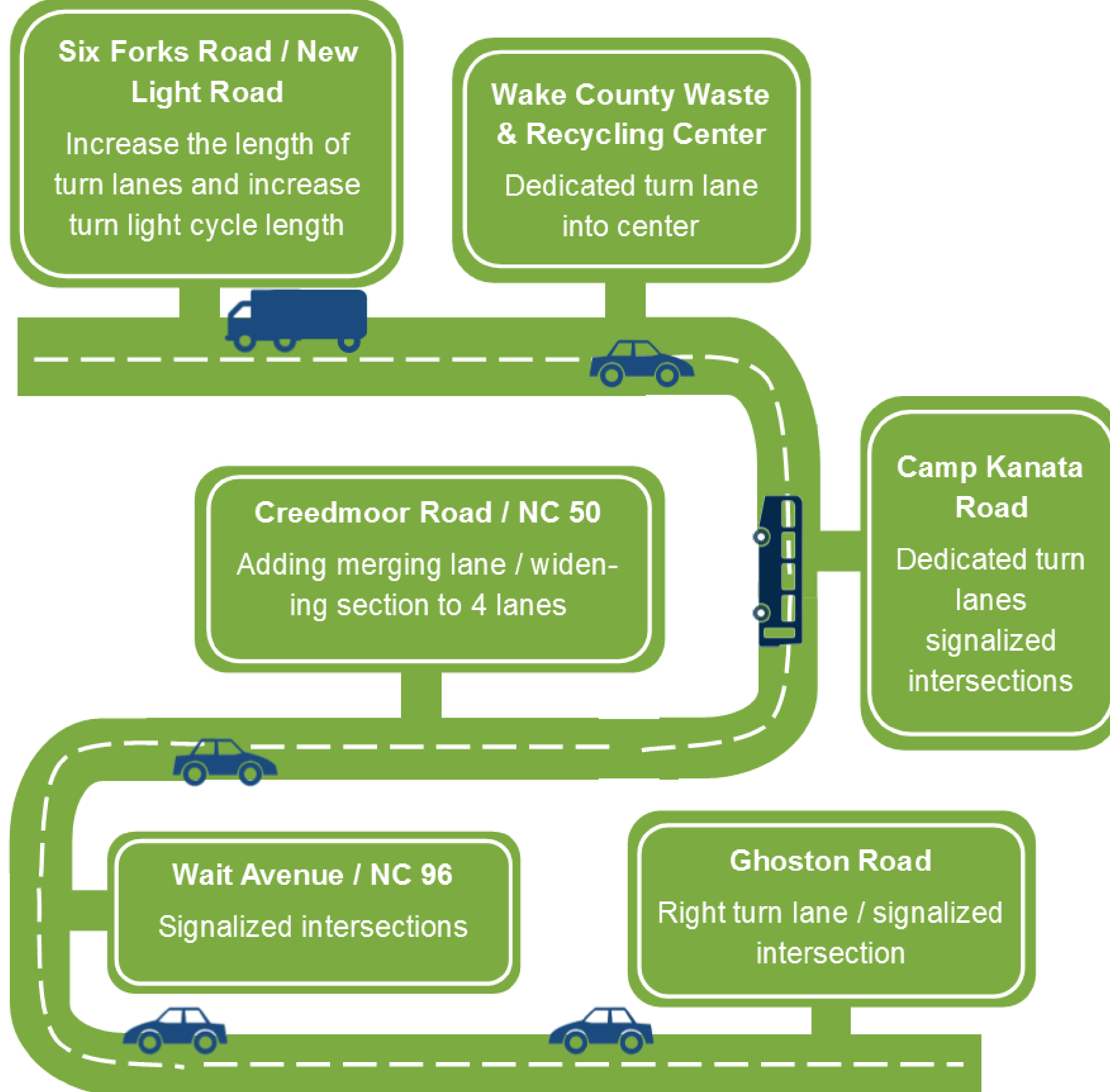


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13,664 impressions

1,847 reaches

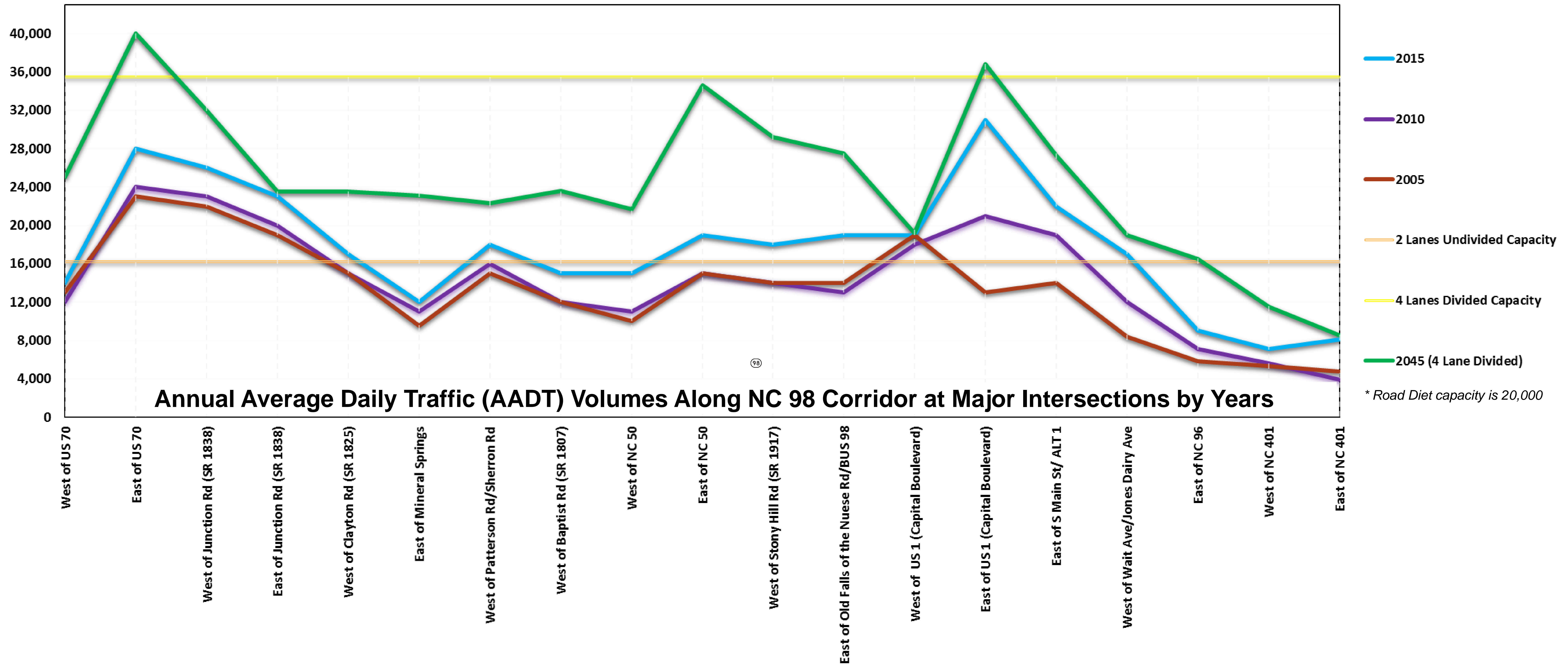
REOCCURRING CROWDSOURCE MAP THEMES *As of March 27



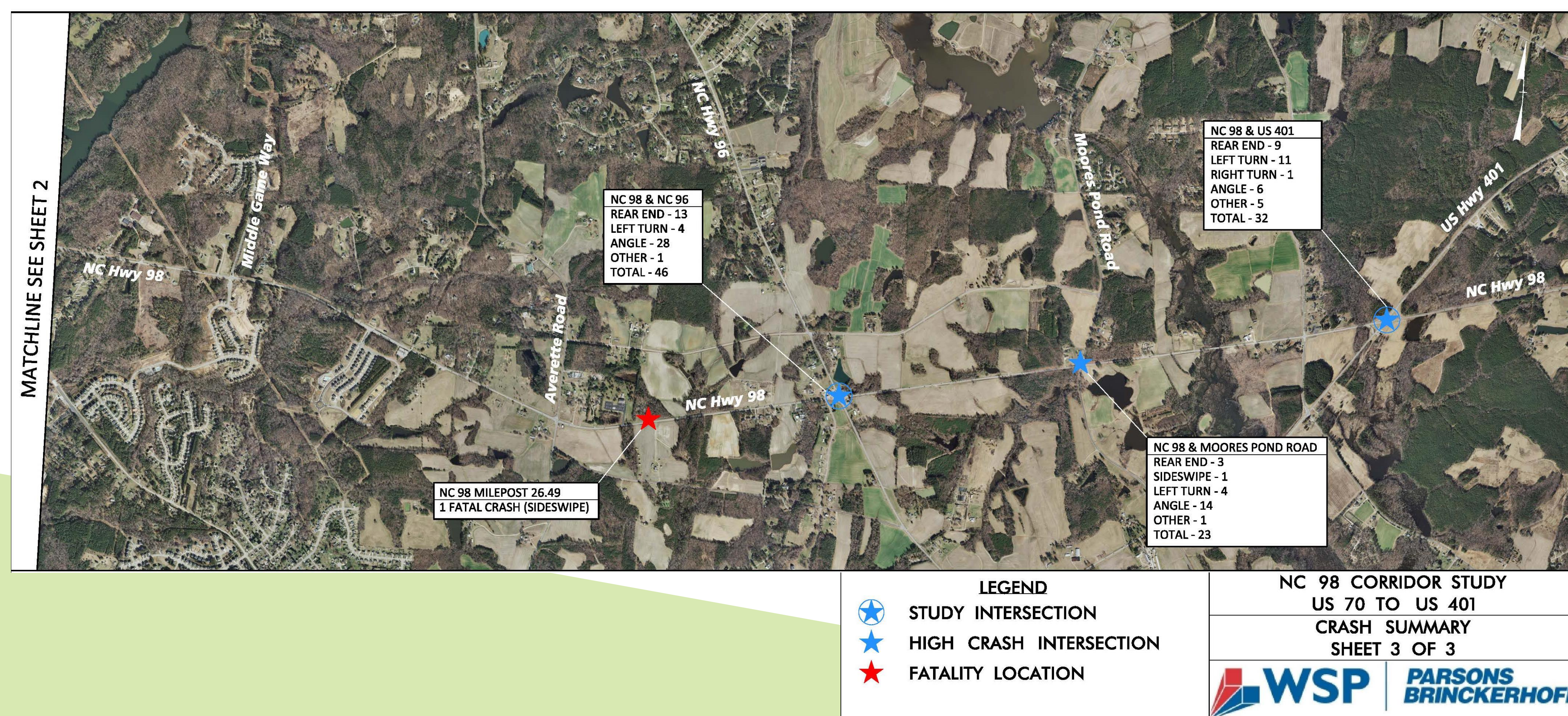
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TRAFFIC ANALYSIS



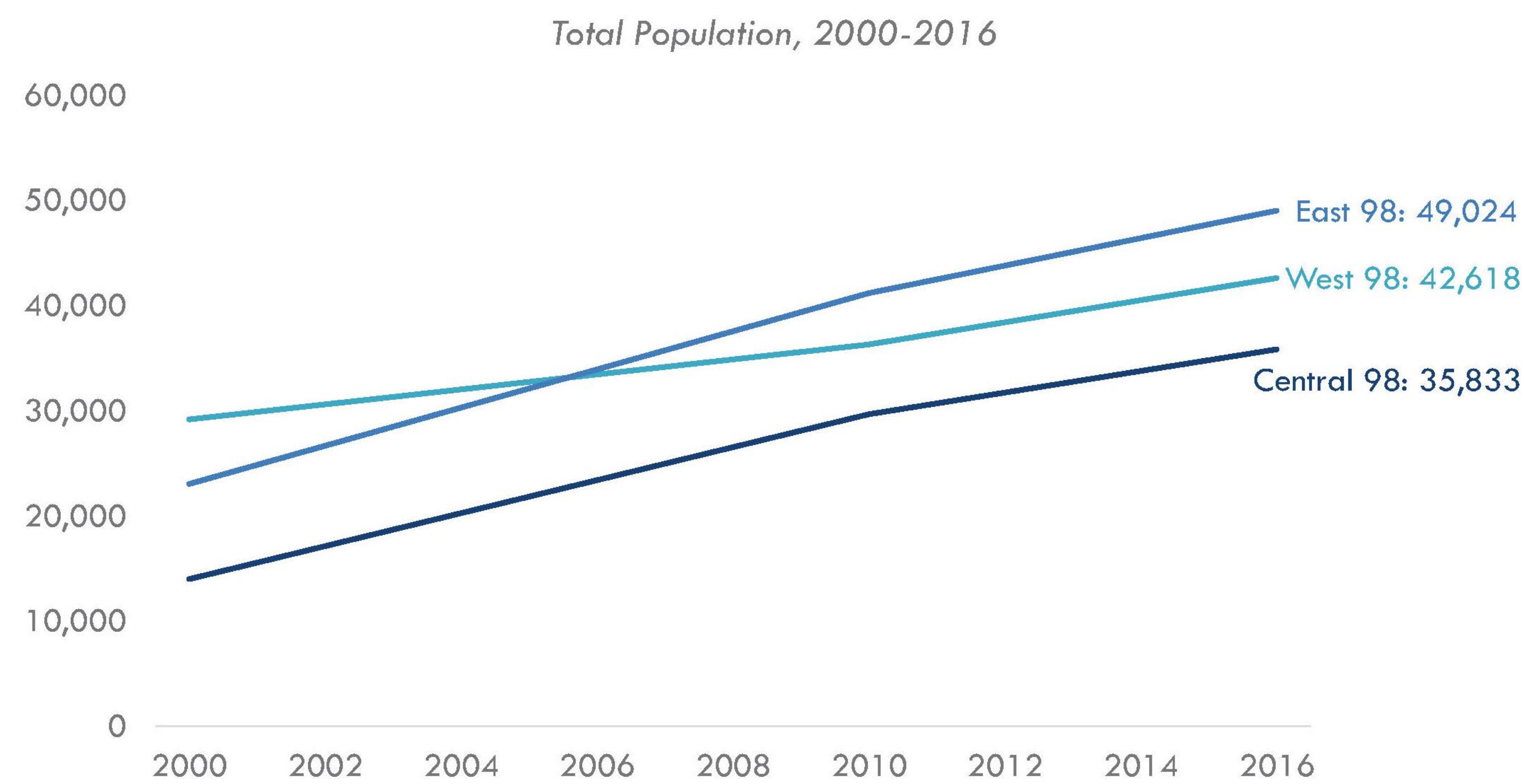
CRASH DATA



ECONOMIC ANALYSIS

POPULATION GROWTH

The NC 98 Corridor has seen significant growth since 2000, most notably in the Central and East sections.



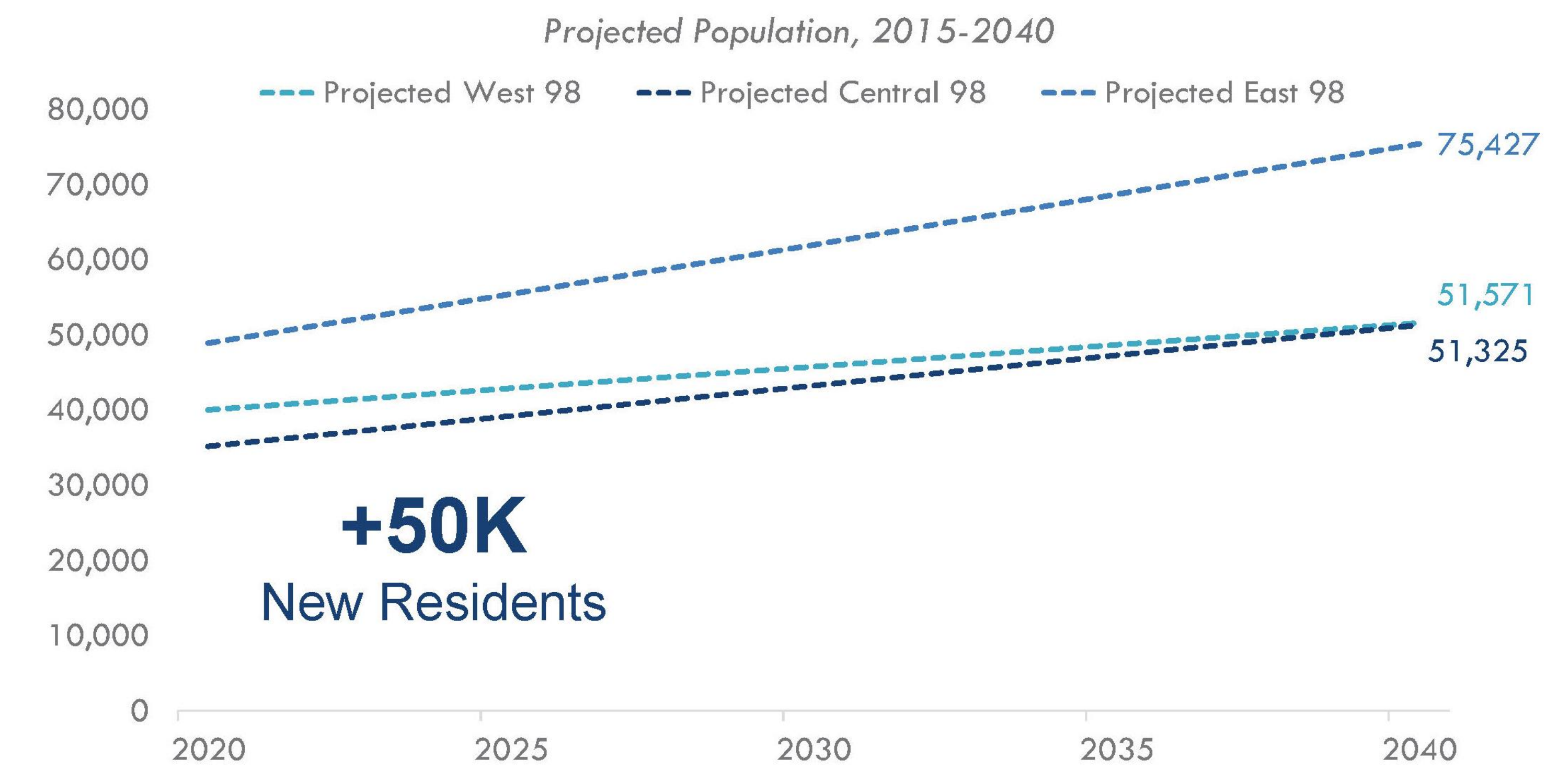
Sources: ESRI Business Analyst



NC 98 Market Study DRAFT



Based on CAMPO projections, the corridor is expected to add over 50,000 people by 2040.



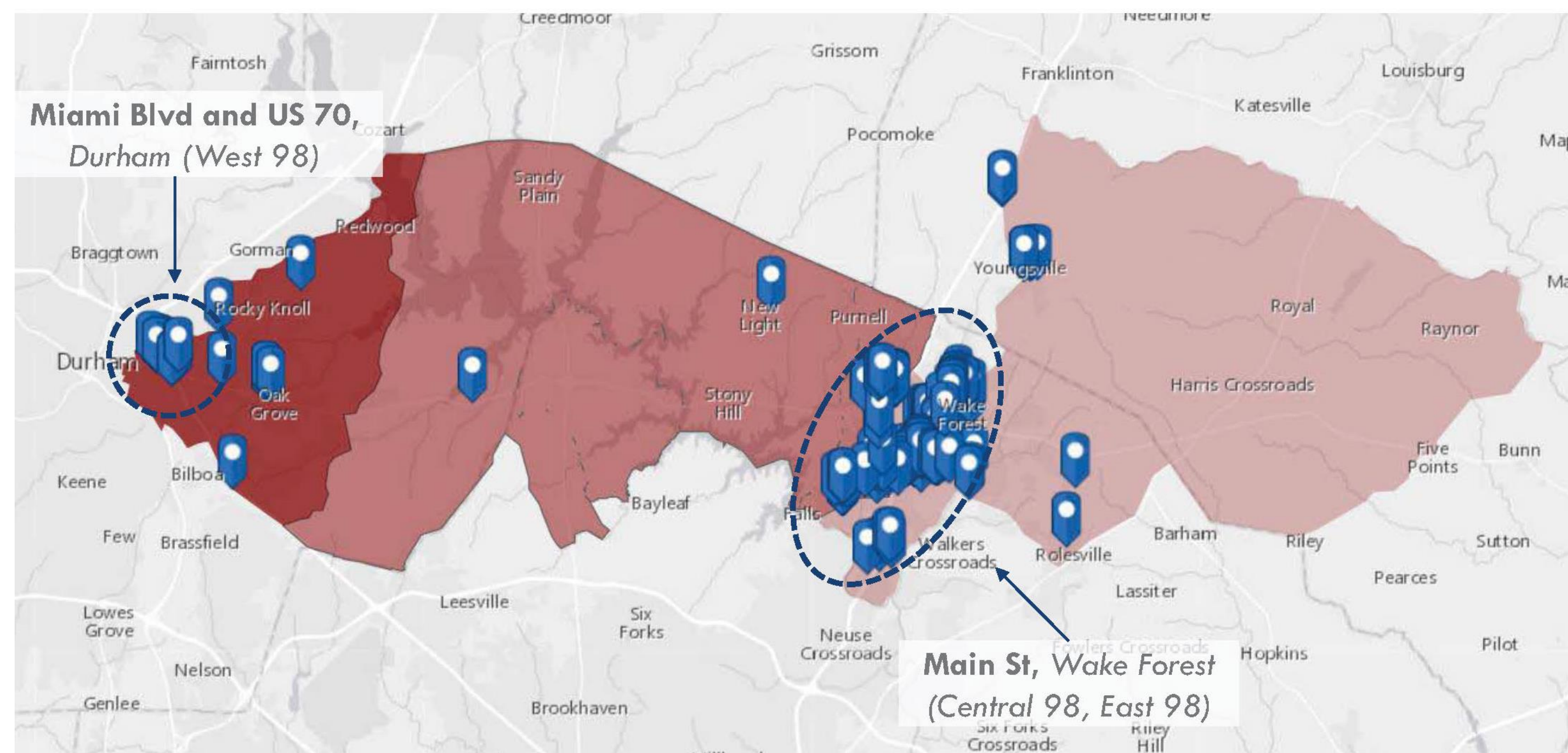
Sources: ESRI Business Analyst, CAMPO, DCHC



NC 98 Market Study DRAFT

COMMERCIAL GROWTH

Existing commercial office buildings have clustered along Miami Boulevard in Durham and Main Street in Wake Forest.



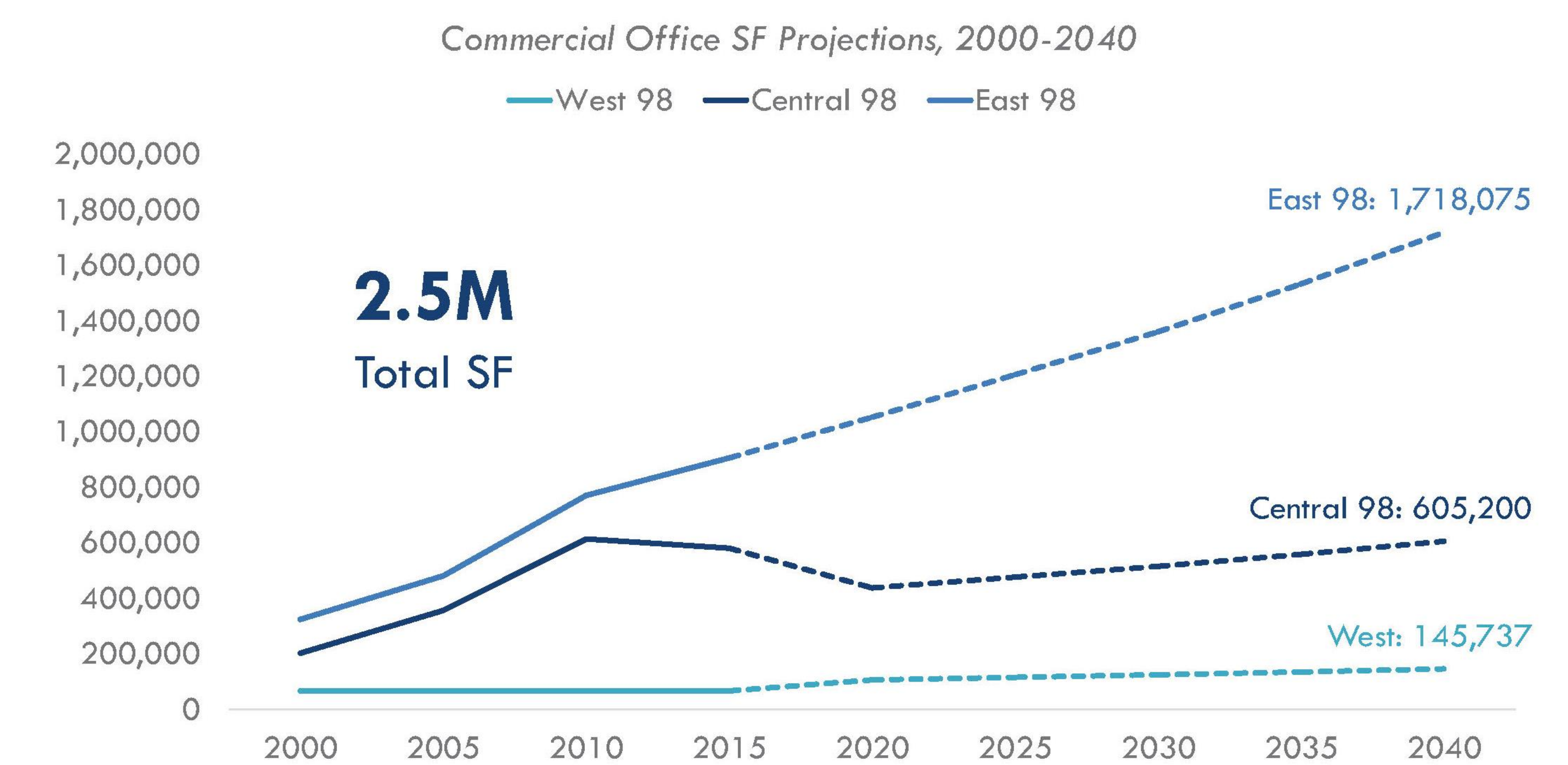
Sources: CoStar, ESRI



NC 98 Market Study DRAFT



The Study Area could add an additional 1 million SF in commercial office space by 2040, primarily owing to growth in East 98.

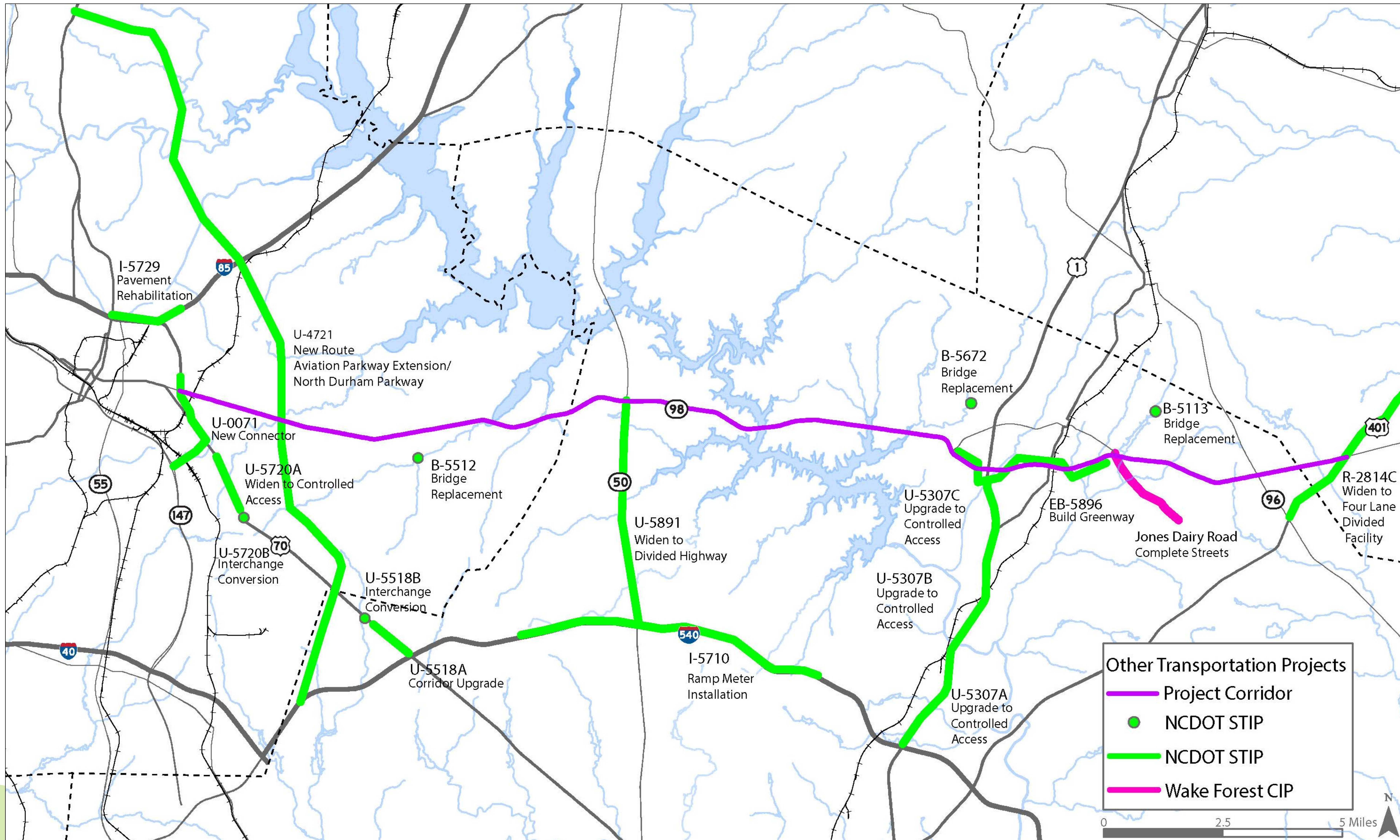


Sources: CoStar, CAMPO



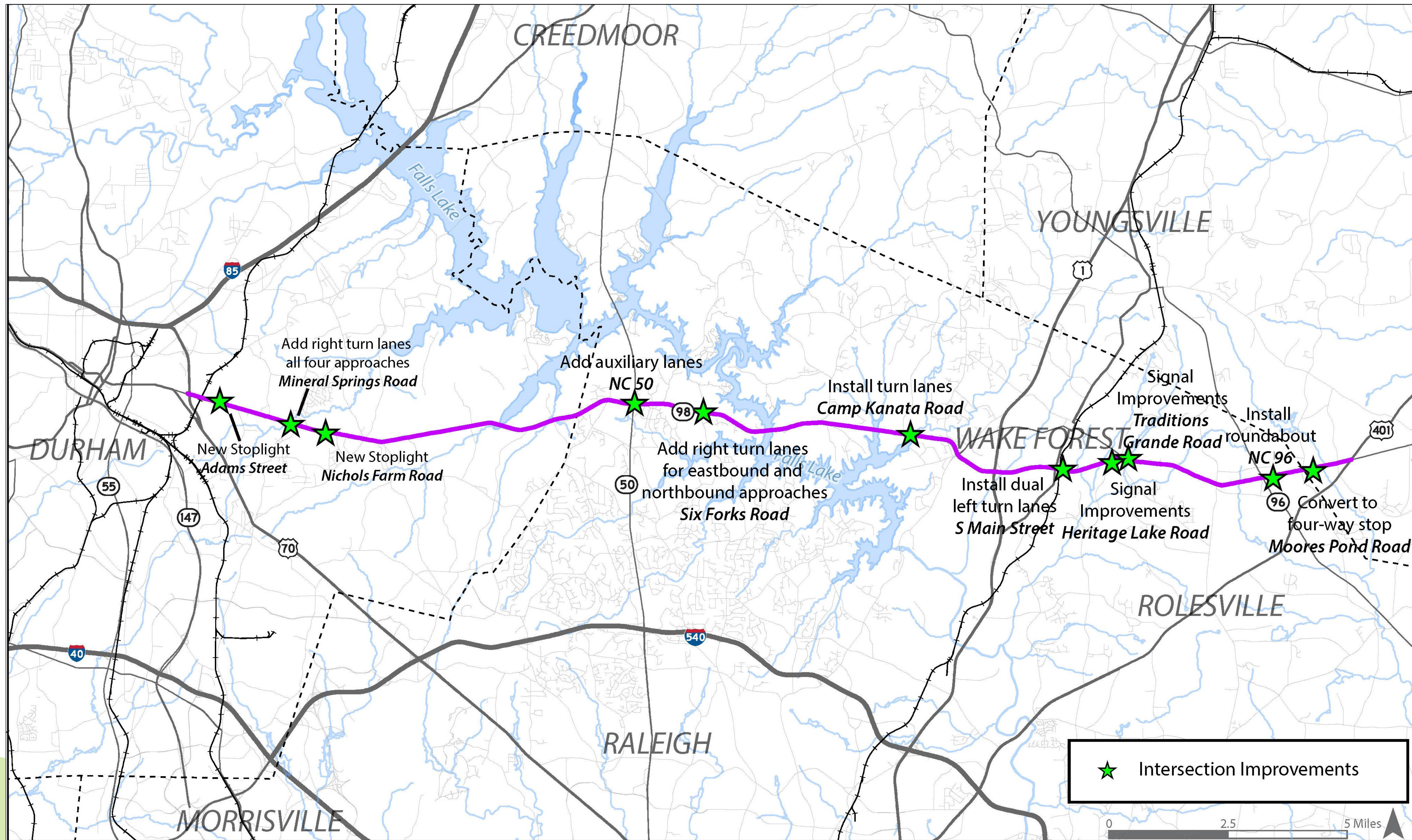
NC 98 Market Study DRAFT

AREA PROJECTS ALONG NC 98



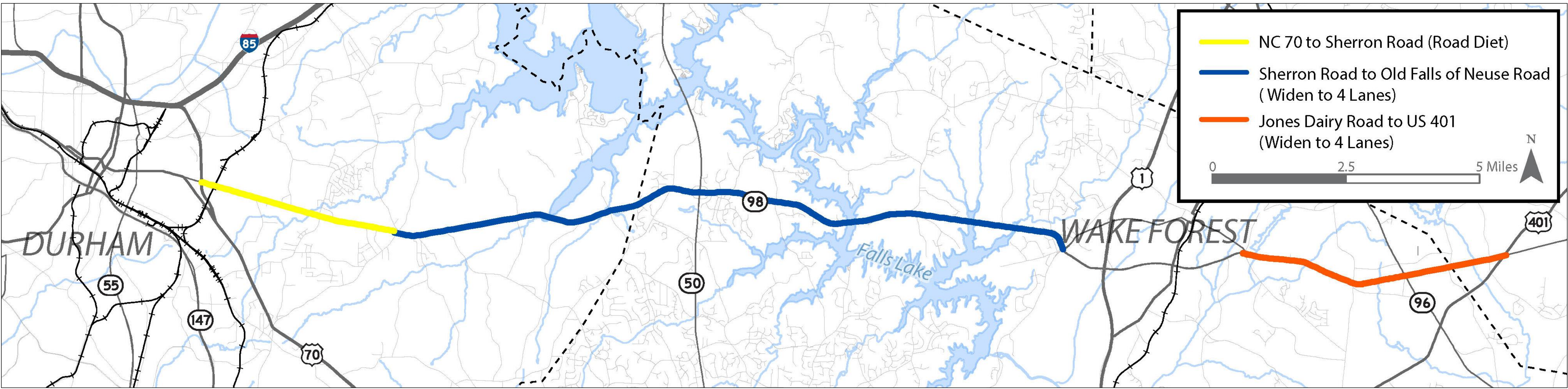
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SHORT-TERM IMPROVEMENTS



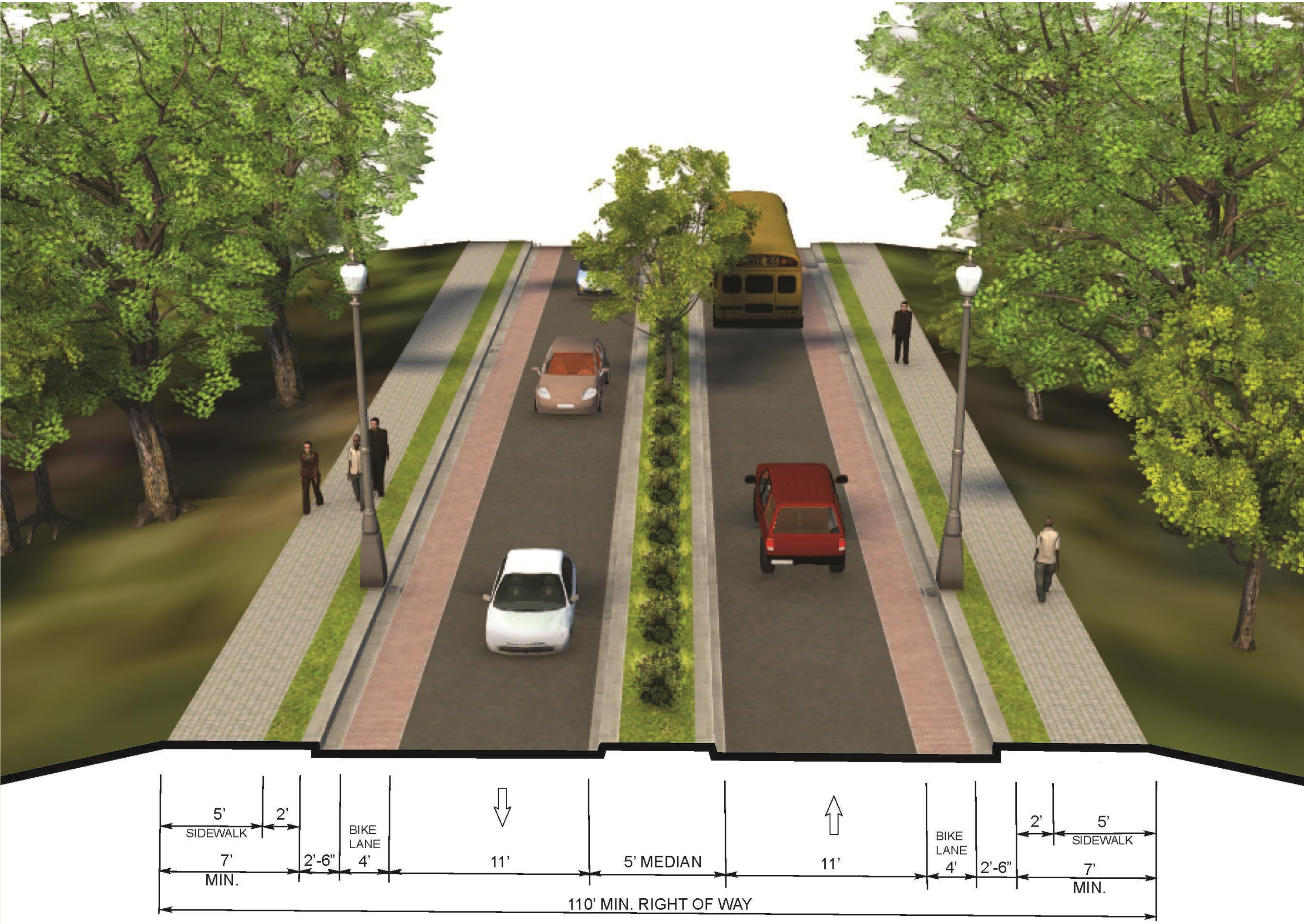
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LONG-TERM IMPROVEMENTS

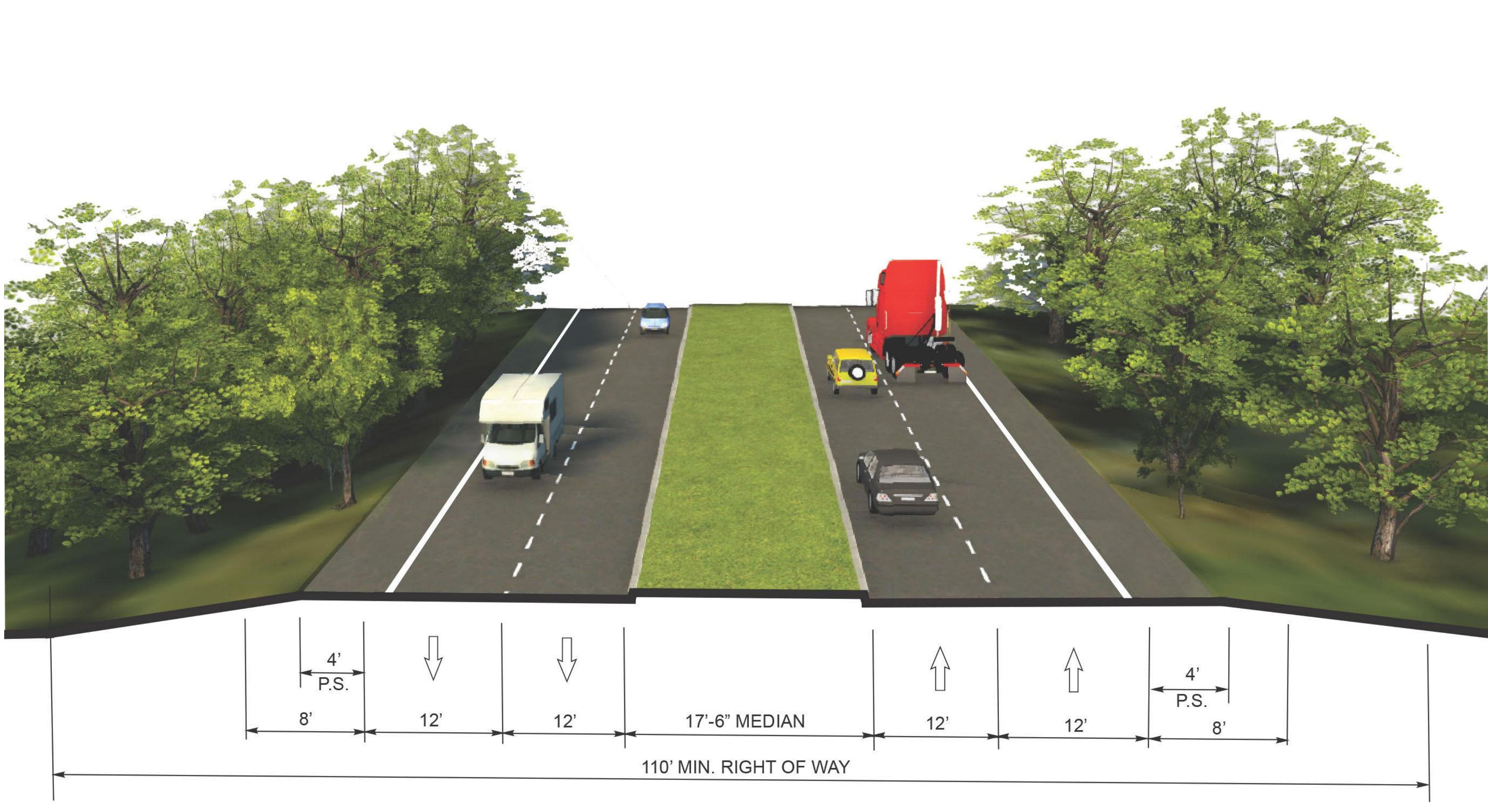


*Road Diet is dependent on Sherron Road being widened to 4 lanes and the Northern Durham Parkway being built.

Road Diet – Potential Cross Section

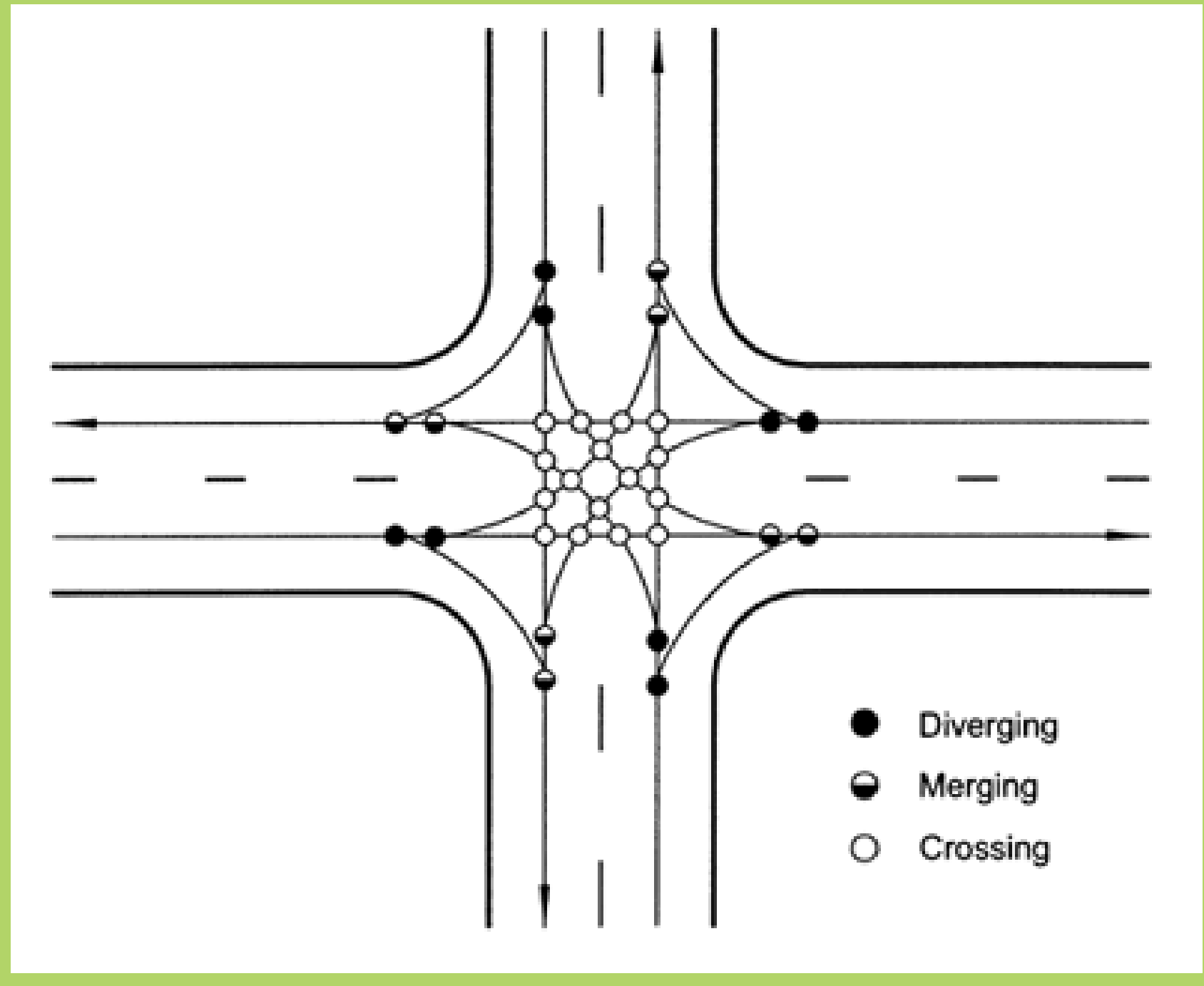
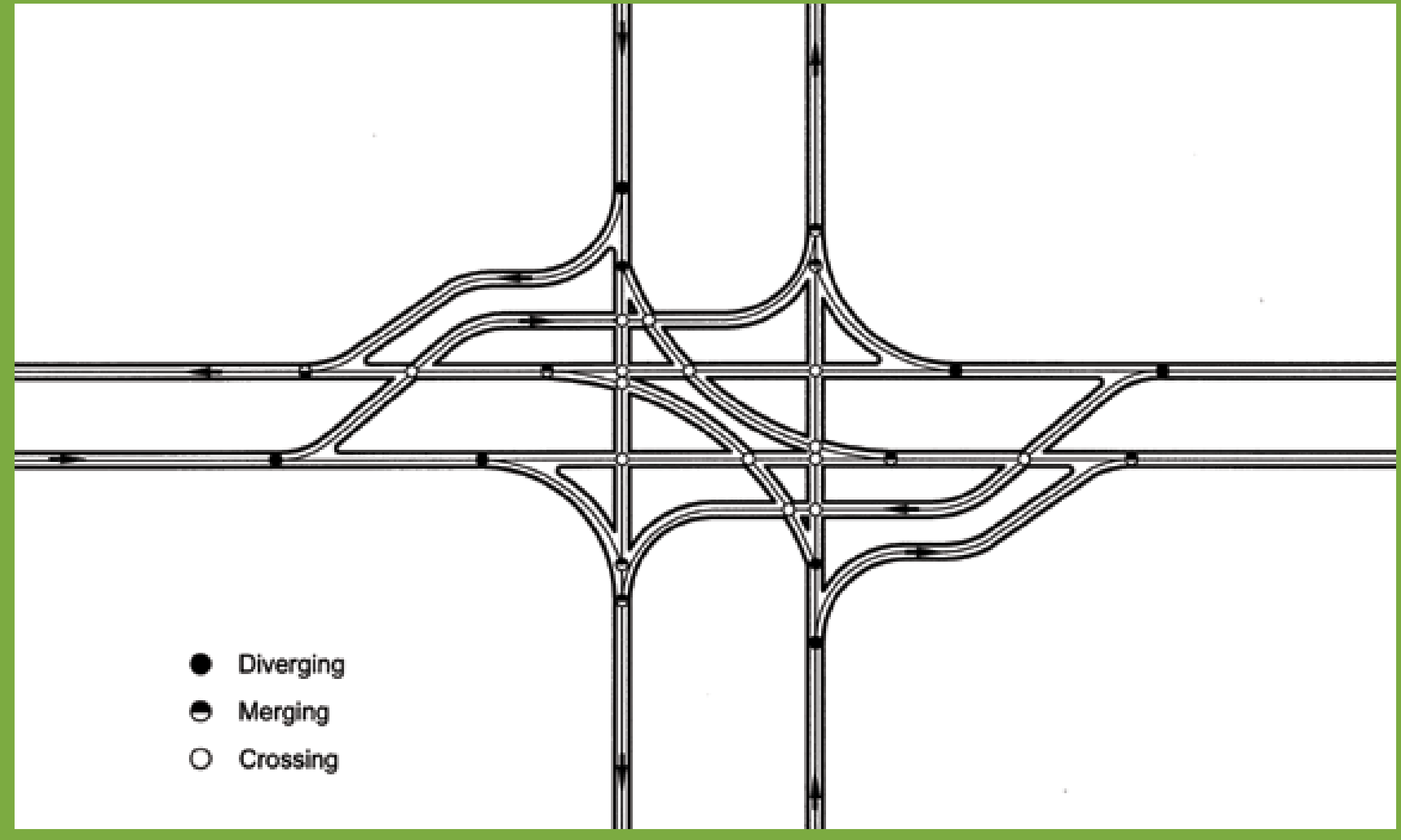
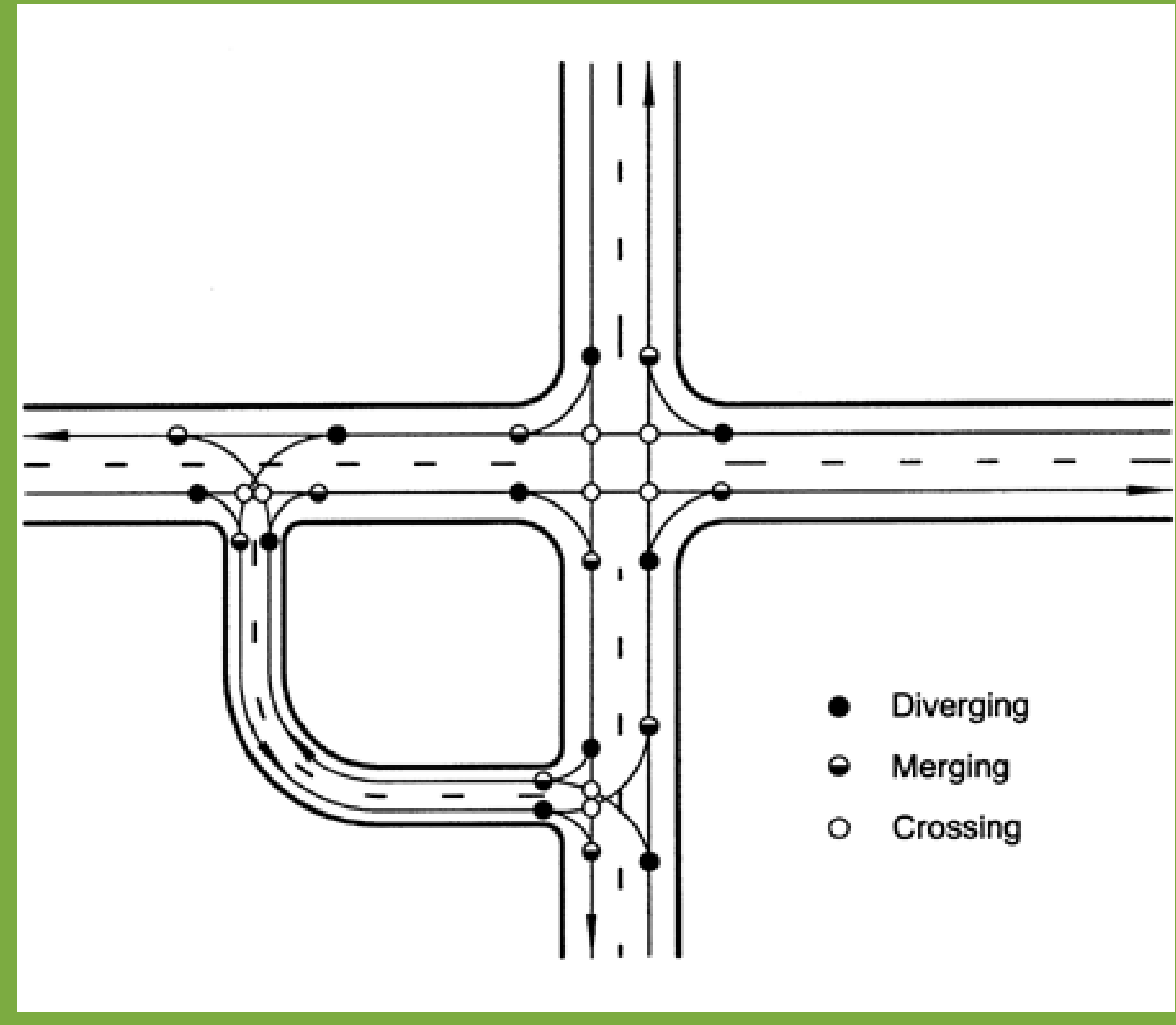
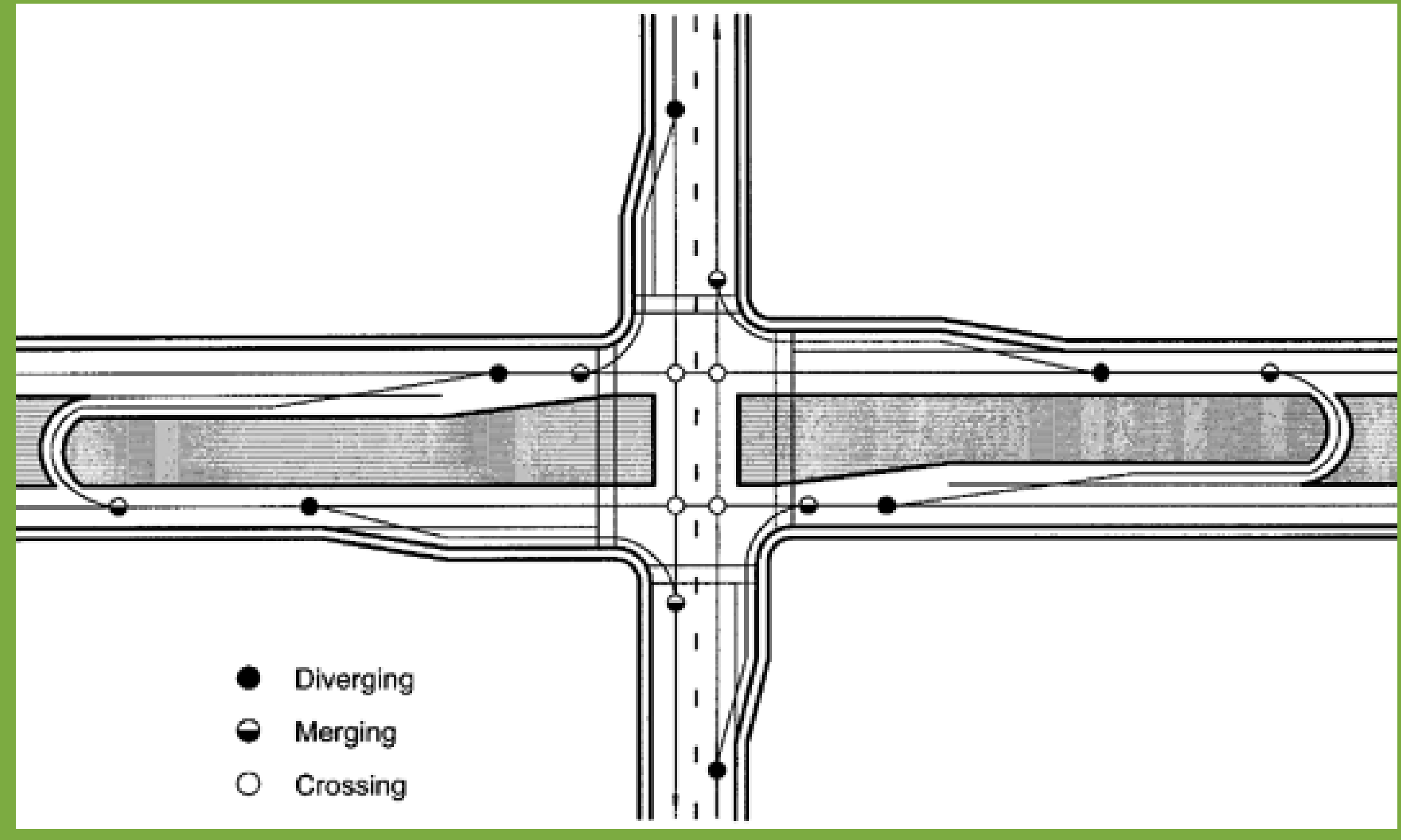


4 Lane Widening – Potential Cross Section



INTERSECTION TREATMENTS

INTERSECTION CONFLICT POINTS







				
	Traditional Intersection	Continuous Flow Intersection	Quadrant Intersection	Median U-turn
Total Conflict Points	32	30	28	16

Indirect Left-Turn Treatments:

- Remove the left-turning vehicles from the flow of traffic without causing them to stop in a through-traffic lane (as a traditional intersection may)
- Improve safety by reducing the number of conflict points as shown above
- Reduce the number of signal phases to provide more green time for traffic
- Increase capacity

PEDESTRIAN & BICYCLE

POTENTIAL BICYCLE AND PEDESTRIAN FACILITIES

Facility Type	Description	Facility Type	Description
 <p>Shared-Use Path</p>	<ul style="list-style-type: none"> A shared-use path is defined as a trail permitting more than one type of user. Paths serve as part of a transportation circulation system and support multiple recreation opportunities, such as walking, bicycling, and inline skating. A shared-use path is physically separated from motor vehicular traffic with an open space or barrier. 	 <p>Median Refuge</p>	<ul style="list-style-type: none"> A median refuge or island provides in-street refuge along the route of a pedestrian crossing. The refuge width is ideally 7'+ to fit bicycles. The approach to vehicle travel lanes must be ADA-compliant.
 <p>Bike Lane</p>	<ul style="list-style-type: none"> Bike lanes designate an exclusive space for bicyclists through the use of pavement markings, striping, and signage. The bike lane is located adjacent to motor vehicle travel lanes and flows in the same direction as motor vehicle traffic. Bike lanes are typically on the right side of the street. Benefits include providing obvious space on the road for cyclists and sending a message to other road users to expect cyclists. 	 <p>ADA Compliant Crossing</p>	<ul style="list-style-type: none"> High visibility striping should be used at crossing areas. A 4' minimum width should be used for ADA-accessible curb ramps. A push button with audible status should be present at the crossing. A pedestrian countdown signal should be present.
 <p>Buffered Bike Lane</p>	<ul style="list-style-type: none"> A buffered bicycle lane is a bike lane with additional striping or hatching (buffer) adjacent to it. The buffer may separate the bicycle lane from motor vehicle travel, parking, or both. The buffer width is typically 2'-3'. 	 <p>Rapid Flashing Beacon</p>	<ul style="list-style-type: none"> Rapid flashing beacons are used to increase visibility of pedestrians as they cross the roadway at uncontrolled crosswalks. This beacon is pedestrian-activated (i.e., the signal will only flash if a pedestrian has pushed a button, indicating that they need to cross the street).

Questions

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