

















www.nc98corridor.com



NC 98 CORRIDOR STUDY REPORT

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



N.C. 98 STUDY SCHEDULE



DEC 16 | JAN 17 | FEB | MAR **APR** MAY JUN AUG NOV DEC **JAN 18** MAR MAY JUN I JUL SEP OCT FEB APR

REVIEW EXISTING INVENTORY & PLANS

TRANSPORTATION ANALYSIS

CONCEPTUAL DESIGN

IMPLEMENTATION PLAN



Visioning Public Events

Public Meetings

Pop-up Events

PUBLIC INVOLVEMENT



Conceptual Design
Preference Public Events
Public Meetings
Pop-up Events



Informational Session on Recommendations
Public Meetings

Study Oversight Team (SOT) Meeting



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



Recreation



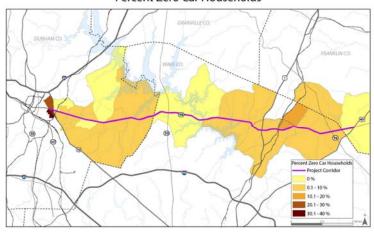
- Schools
- Churches
- Shopping centers
- Activities

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

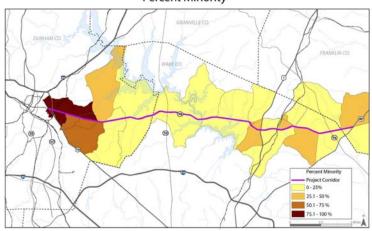


Demographics

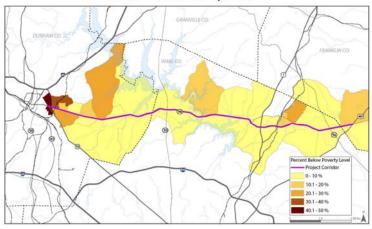




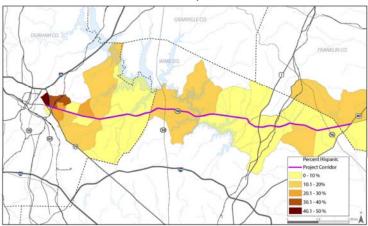
Percent Minority



Percent Below Poverty Level

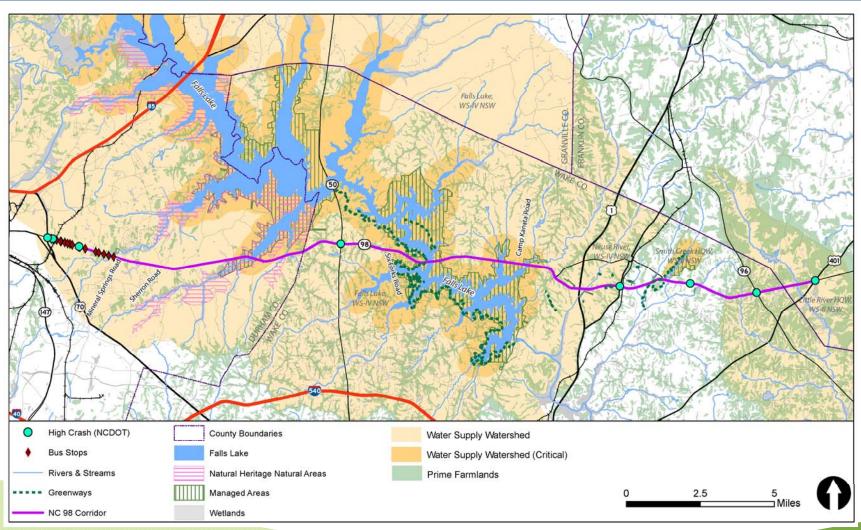


Percent Hispanic



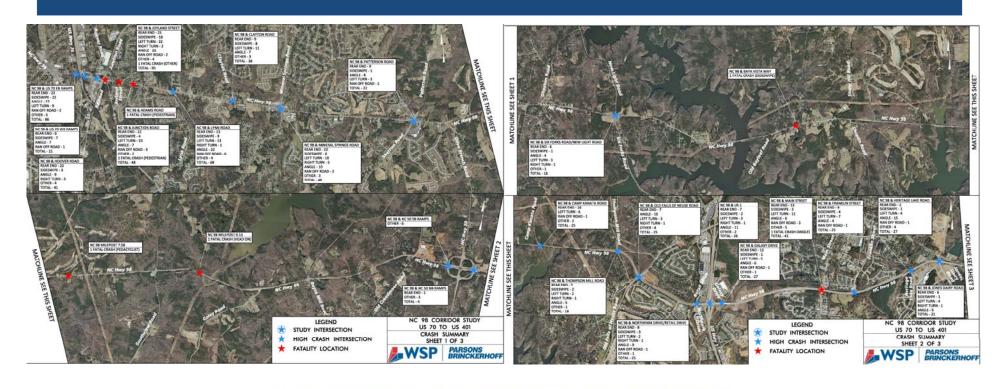


Environmental Constraints





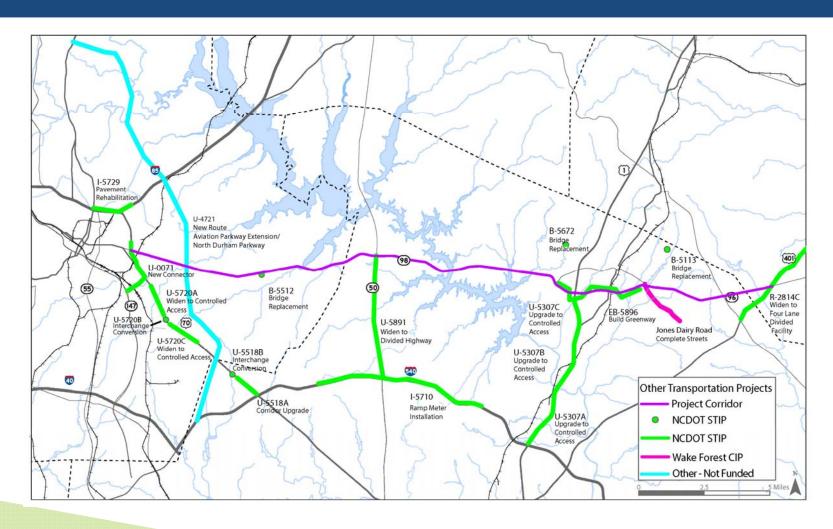
CRASH DATA







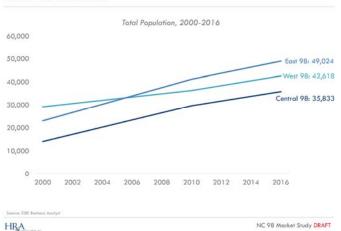
AREA PROJECTS ALONG NC 98



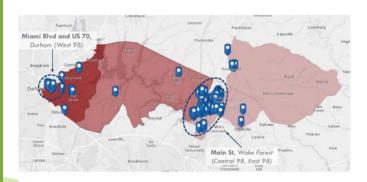


ECONOMIC ANALYSIS

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



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

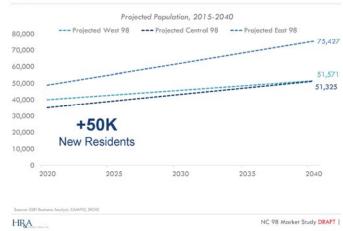


Forum Cathor, EMI

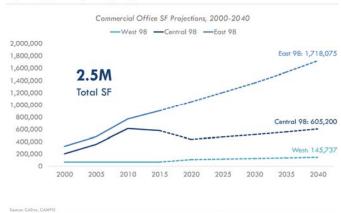
NC 98 Market Study DRAFT

NC 98 Market Study DRAFT

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



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



HRA.

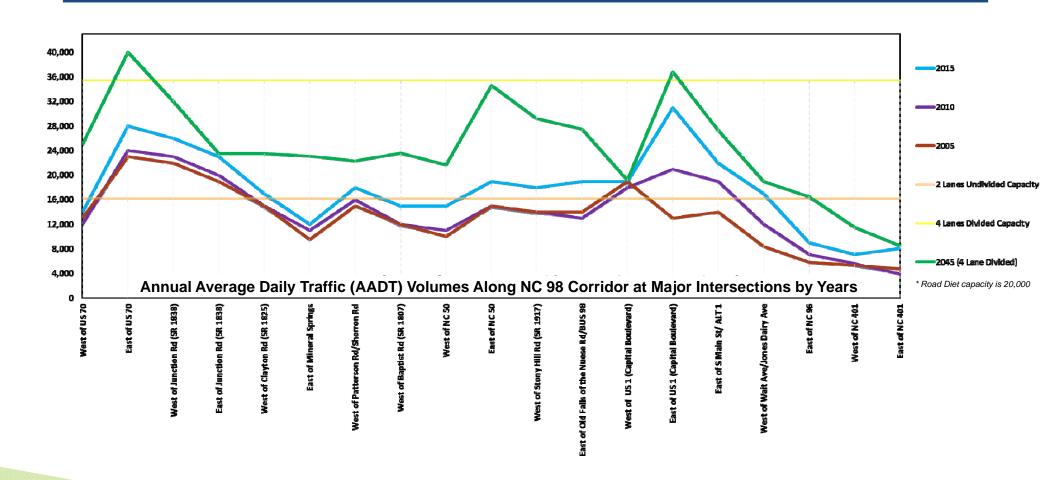
NC 98 Market Study DRAFT



POPULATION GROWTH

NC CAMPO - DCHC MPO - NCDOT

TRAFFIC ANALYSIS





PUBLIC PARTICIPATION



5 pop-up events



558 crowdsource comments



6 public meetings



168 comment forms/online surveys



221 attendees



121 online comment submissions/web sign-ups



Corridor Outreach

(Durham Southern High School Football Game, Businesses and Churches along the corridor)



PUBLIC PARTICIPATION

NC98CorridorStudy.com



8,017 sessions



6,496 Users (10.6% returning users)

#NC98Study



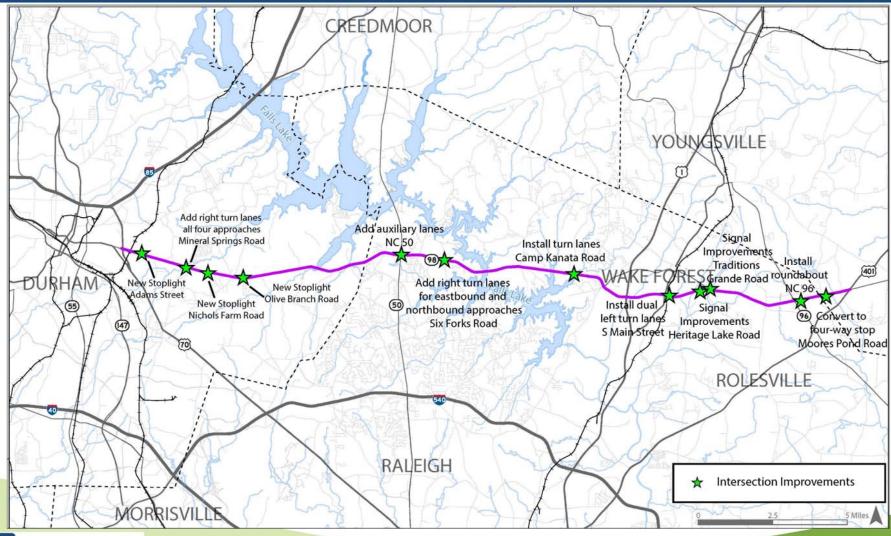
16,473 Impressions



3,206 Reaches



SHORT-TERM IMPROVEMENTS





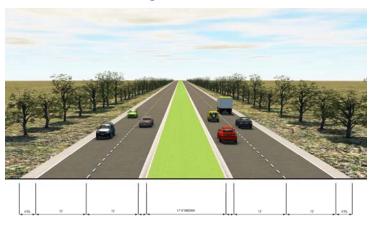
LONG-TERM IMPROVEMENTS



Junction to Sherron – Access Management



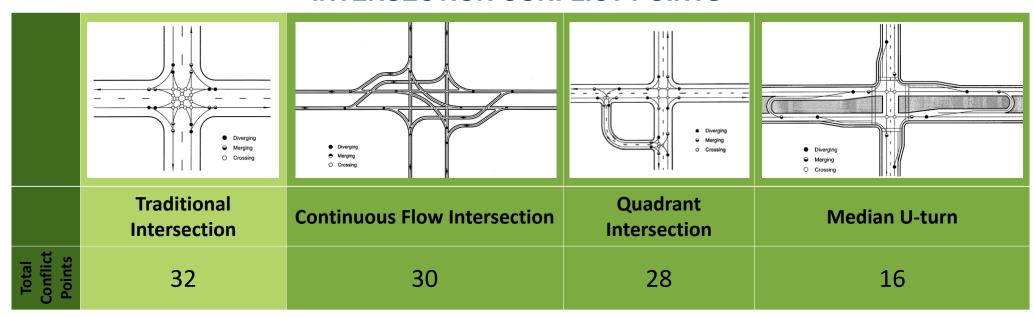
4 Lane Widening - Potential Cross Section





INTERSECTION TREATMENTS

INTERSECTION CONFLICT POINTS



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

 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.



 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.



- 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'.

Facility Type



Description

- 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 ADAcompliant.



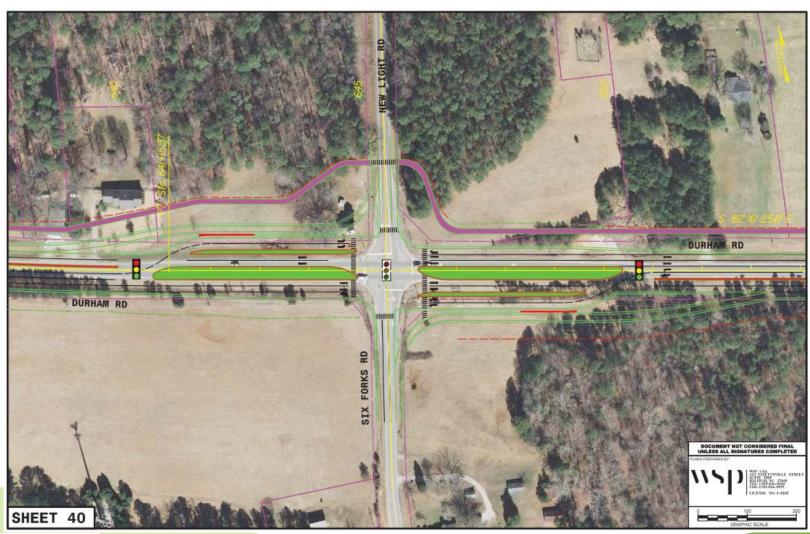
- High visibility striping should be used at crossing areas.
- A 4' minimum width should be used for ADAaccessible curb ramps.
- A push button with audible status should be present at the crossing.
- A pedestrian countdown signal should be present.



- 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).



Conceptual Designs





Conceptual Designs





POTENTIAL FUNDING SOURCES

| NCDOT Transportation Improvement Program | Other NCDOT Funds | MPO Local Project Funds | Municipal Funds | Grants | Developer |
|---|--|--|--|---|--|
| Sherron Road to Old Falls of Neuse Widening Old Falls of Neuse Road to Jones Dairy Road Intersection Upgrades Jones Dairy Road to US 401 Widening Sherron Road Widening NC 98 to US 70 (needed for road diet) Northern Durham Parkway NC 98 to US 70 (needed for road diet) | Left turn lanes at Six Forks Road Turn lanes at Mineral Springs Road Traffic signal at Adams Street Auxiliary Lanes on NC 98 at NC 50 | Sidewalk improvements from US 70 to Sherron Road Sherron Road to Neal Middle School Multiuse Path Intersection improvements at S. Main Street Intersection improvements at Jones Dairy Road and Traditions Grande Intersection improvements at Old Falls of Neuse Road Turn lanes at Six Forks Road | US 70 to Sherron Road road diet option Signal improvements at Heritage Lake Road and Traditions Grande Pedestrian bridge over NC 98 Oak Grove Elementary School Sidewalk Gap Transit stop improvements | Pedestrian bridge over NC 98 Sidewalk improvements from US 70 to Sherron Road Transit stop improvements | Quadrant Roadway at Sherron Road Turn lanes at Camp Kanata Road Intersection improvements from Old Falls of Neuse Road to Jones Dairy Road Friendship Chapel Road extension |

^{*} Projects may be funded via a variety of sources and/or led by varying agencies



Questions

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