



Triangle Expressway

SOUTHEAST  
EXTENSION



NORTH CAROLINA

Turnpike Authority

# *Triangle Expressway Southeast Extension*



*CAMPO Technical  
Coordinating Committee  
September 2, 2010*



# Triangle Expressway Southeast Extension

## Current Activities

- Field surveys
- Developing Purpose and Need
- Developing alternative concepts and preliminary alternatives
- Agency coordination
- Public involvement – hotline, blog, small group meeting





## Project Needs

- **Mobility for movement of people and goods**
  - 2035 LRTP goal
  - Completion of Raleigh Outer Loop is 2025 horizon year project
  - Local resolutions
- **Limited transportation options for local and through travel**
  - Conflict between local and through travel on I-40/I-440
  - Few controlled access roadways in project area
  - Limited transit options in project area
- **Existing and projected poor LOS**
  - Inconsistent with NC Strategic Highway Corridor vision

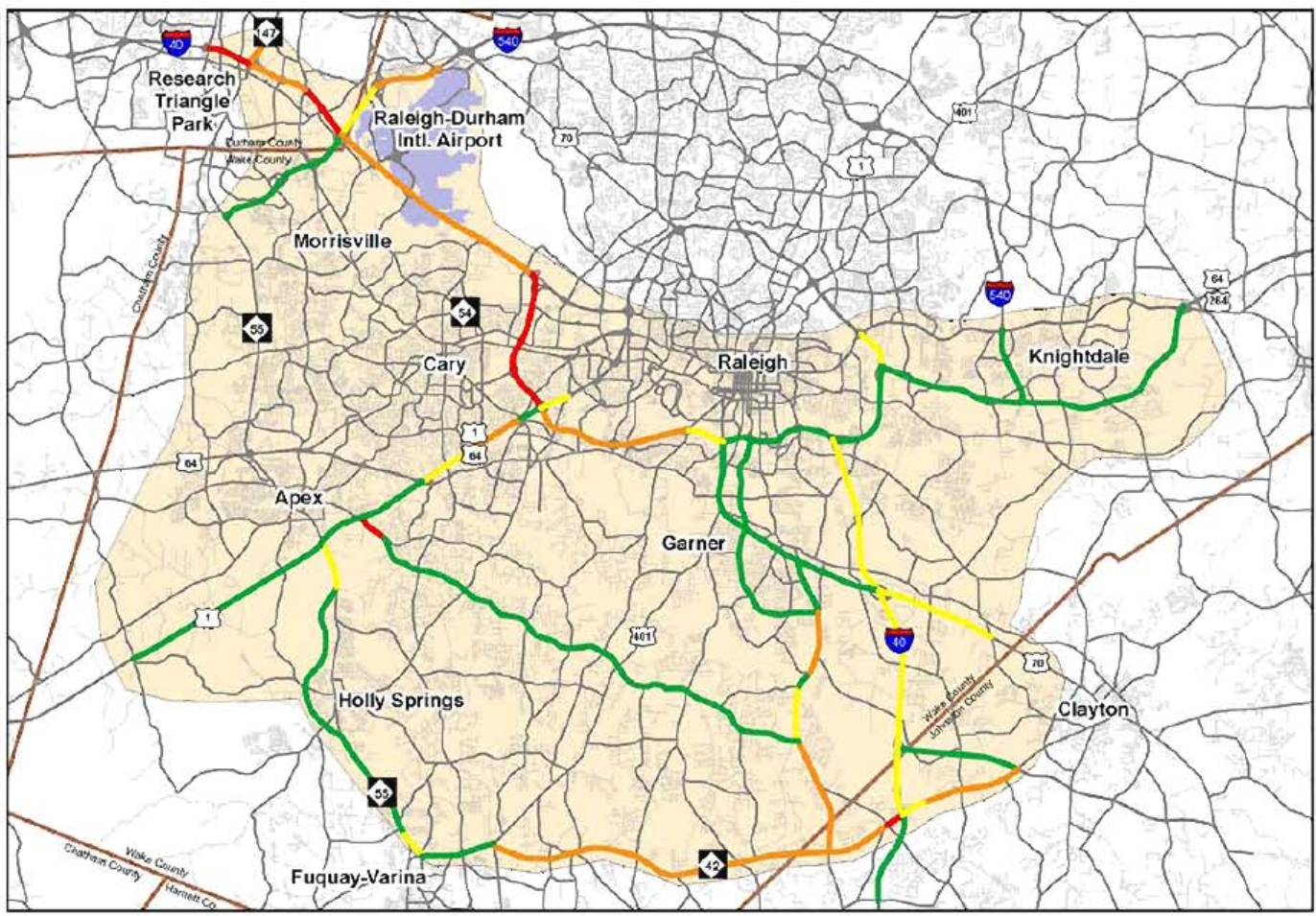


**North Carolina Turnpike Authority**

**Triangle Expressway  
 Southeast Extension**

State Project No. S-401074 & S-401075 & S-401090  
 S.T.P. No. A-2721 & P-2459 & P-2459

**Existing Traffic Levels of Service (2008)**

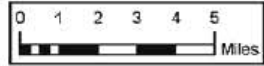


- LOS A-C
- LOS D
- LOS E
- LOS F

**Legend**

- 2008 Highway Network
- Counties
- Study Area

LOS = Level of Service  
 V/C = Volume to Capacity





**NORTH CAROLINA  
 Turnpike Authority**

**Triangle Expressway  
 Southeast Extension**

State Project No. 6.4011079 & 6.4011078 & 6.401080  
 S.T.P.F. No. N-2721 & R-2928 & R-2929

**2035 No-Build Traffic Levels of Service**

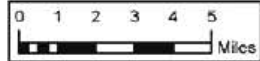
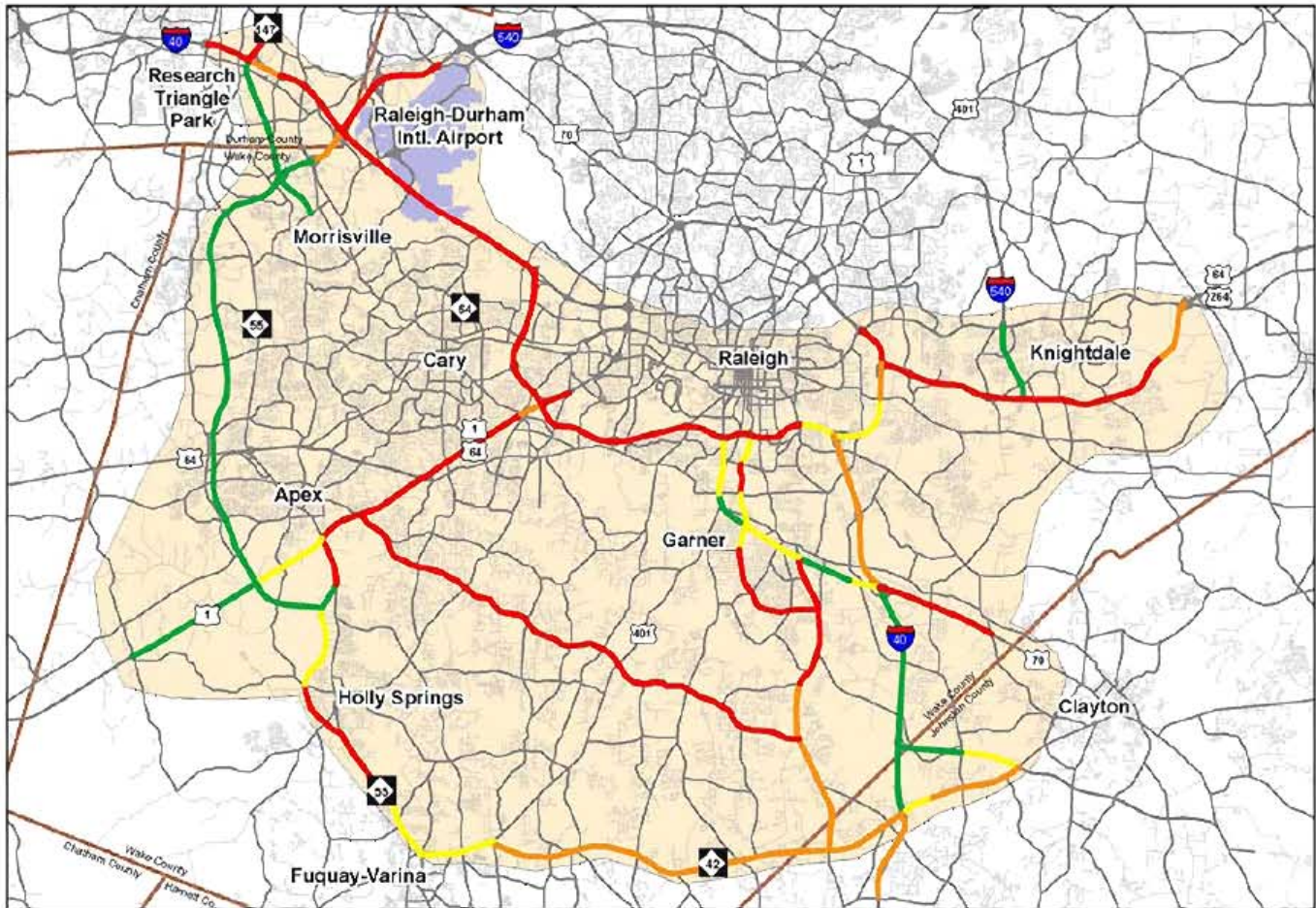


- LOS A-C
- LOS D
- LOS E
- LOS F

**Legend**

- 2038 Highway Network
- Counties
- Study Area

LOS = Level of Service  
 V/C = Volume to Capacity





## Project Purpose

- **Improve transportation mobility and enhance connectivity**
  - High-speed, safe and efficient regional transportation infrastructure
  - Local and regional travel
- **System linkage**
- **Support sustainability and livability goals**
  - Potential to decrease commute times for project area residents



## Alternatives Screening Methodology

- **Identify alternative concepts**
  - No Build
  - Mass Transit/Multi-Modal
  - TSM and TDM
  - Build options (New Location, Improve Existing, Hybrid)
- **Qualitative first screening**
  - Does alternative concept meet each element of purpose and need?
- **Quantitative second screening**
  - Develop GIS map of environmental constraints
  - Develop preliminary segments/corridors to avoid/minimize impacts
  - Apply environmental screening criteria to establish corridors
- **Quantitative third screening**
  - Develop conceptual designs for alternative corridors
  - Calculate and compare potential impacts





## Qualitative First Screening – Ability to Meet Purpose and Need

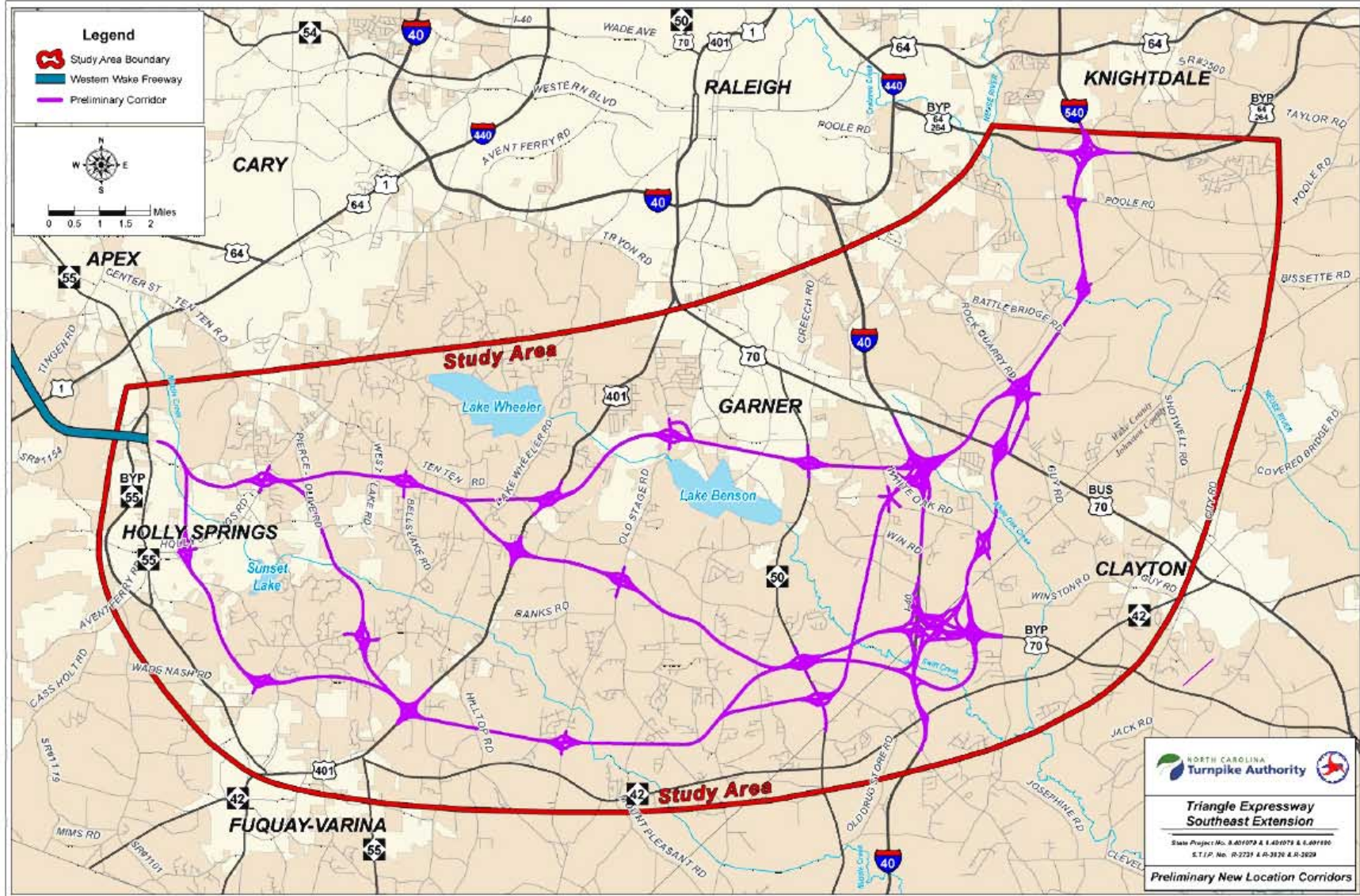
Alternative Concept	Improves Transportation Mobility	Enhances Connectivity	Reduces Congestion	Consistent with NC SHC Vision	Improves System Linkage	Decreases Commute Times
No-Build	✗	✗	✗	✗	✗	✗
Transportation Demand Management	✓	✗	✗	✗	✗	✗
Transportation System Management	✓	✗	✗	✗	✗	✗
Mass Transit/Multi-Modal	✓	✗	✗	✗	✗	✗
Improve Existing Roadways (Widening Arterial) (Freeway)	✓ ✓	✗ ✓	✗ ✓	✗ ✓	✗ ✓	✗ ✓
New Location Highway	✓	✓	✓	✓	✓	✓
New Location/Improve Existing Roadway Hybrids	✓	✓	✓	✓	✓	✓

✗ - means the alternative cannot be designed to meet this element of purpose and need  
 ✓ - means the alternative could be designed to meet this element of purpose and need



## Build Alternatives

- **Nine preliminary new location corridors**
- **One improve existing roadways alternative**
  - I-40, I-440, US 64/264 Bypass
- **One hybrid new location/improve existing alternative**
  - Build Phase I on new location; improve I-40, I-440, US 64/264 Bypass in Phase II area







## Public Workshops

- Present purpose and need, preliminary alternatives
- Three workshops
  - Tuesday, September 21, 4 pm-7 pm – Wake Tech
  - Wednesday, September 22, 6 pm-9 pm – Holly Springs High School
  - Thursday, September 23, 4:30 pm-7:30 pm – Barwell Road Community Center
- Comment period ends October 23
- Agency, local government, and public comments will be considered



# Project Schedule

- **Selection of Detailed Study Alternatives – Fall 2010**
- **Draft Environmental Impact Statement – 2012**
- **Final Environmental Impact Statement – 2013**
- **Record of Decision – 2013**
- **Phase I Open to Traffic – 2019**

*Schedule is draft and still under development*



**Questions, Comments, and/or Concerns?**

**Toll-Free Hotline: 1-800-554-7849**

**E-mail: [southeast@ncturnpike.org](mailto:southeast@ncturnpike.org)**