# Comprehensive Transportation Planning Town of Mount Olive



NC Department of Transportation Transportation Planning Branch



# What is Transportation Planning?

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Transportation Planning is the process by which NCDOT and local officials work together to develop a Comprehensive Long -Range Transportation Plan (CTP) for a specific area.

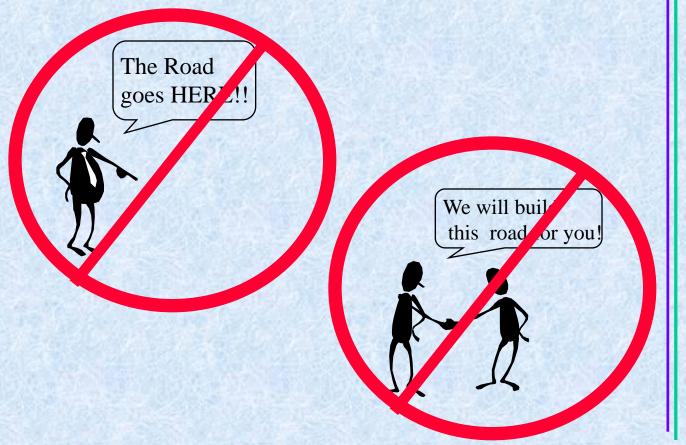
The plan should recommend improvements to the local street system needed to meet both existing and anticipated travel demands

# A Comprehensive Transportation Plan Does NOT...

Make a promise to build or improve a road,

#### nor

Determine the exact location of a new road



## What are the Benefits to having a CTP?

- Provides a common long-range vision between RPO's, NCDOT and the Town of Mount Olive
- Informs local officials of intended future improvements so they can be incorporated into local planning and policy decisions
- Minimizes impacts to property and community appearance often associated with road construction
- Reduces project costs associated with right-ofway acquisition and road construction
- Provides stronger ties to local priorities
- > Provides for more reliable project delivery



## Tasks Involved in Developing the CTP

### 1. Study Initiation

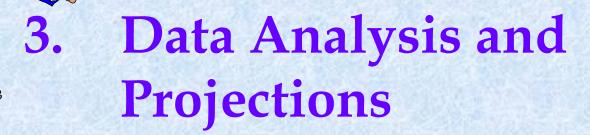
- Meet with local officials to discuss transportation concerns and issues
- Conduct field investigations to develop an inventory of local streets and gain familiarity with the area



# Tasks Involved in Developing the CTP 2. Collection of Data

- > Population
- > Land Use
- > Traffic Volumes
- High Crash Locations
- Roadway and Bridge Conditions
- Housing and Employment
- > Environmental
- Input from Local Policy Boards and the Public

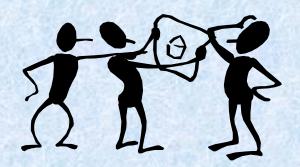
## Tasks Involved in Developing the CTP

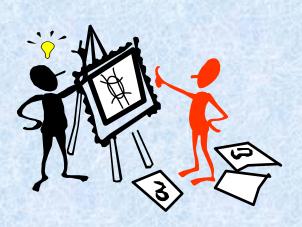


- Project the population, land use, housing and employment data for use in the development of a travel demand model
- Analyze the local traffic patterns
- Identify the existing and future road deficiencies
- Examine environmentally sensitive areas, such as, historic structures, wetlands, floodplains, and threatened and endangered species

# Tasks Involved in Developing the CTP I. Plan Development

- Work with the local area to develop preliminary recommendations that will help meet the anticipated future transportation needs of the community
- Conduct public workshops to solicit feedback
- > Develop the final CTP Recommendations





# Tasks Involved in Developing the CTP Plan Adoption

- Public Hearing on the Recommended CTP
- Endorsement by Eastern Carolina Rural Planning Organization (ECRPO)
- Adoption by the Town of Mount Olive

5.

 Adoption by the NCDOT BOT (Board of Transportation)

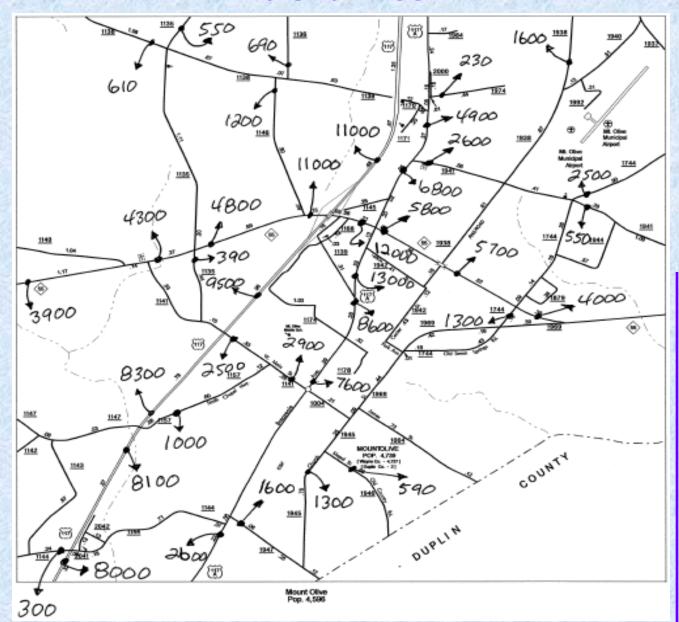


## Plan Implementation can be achieved through:

- Coordinated Subdivision and Land Use Controls
- Scrutiny over Development Plans
- Documentation of Project Purpose and Need for inclusion in the Transportation Improvement Program (TIP)



### 2008 Average Daily Traffic Volumes



#### **Congested Levels of Service in an Urban Setting**

2 lanes = 8,000 -12,000 vpd

3 lanes = 12,000 - 16,000 vpd

5 lanes = 24,000 - 28,000 vpd

2 lanes (one-way) = 14,000 vpd

4 lanes = 18,000 - 22,000 vpd

4-lane Freeway = 54,000 vpd

Vehicles Per Day (vpd)

## **Current Project Requests and Existing Recommendations**

#### > 1994 Thoroughfare Plan Recommendations

- 1. The "outer loop" providing access to the southern and eastern parts of town as well as Carver Elementary School
- Widen Breazeale Ave. to 3 lanes from Country Rd. to Station St. (there is not enough right-of-way between Main St. and Station St.)
- 3. Convert Main St. and James St. into a one-way pair in town
- 4. Proposed interchanges and grade separations along US 117

### Wayne County Transportation Committee (Nov. 2, 1994)

- Widen NC 55 from US 117 Bypass west to Country Club Rd. in anticipation of possible Wal-Mart and other commercial development
- Resurface South Church St. from E. Main St. to Mount Gillead Rd. – NCDOT Division 4 has stated the need for minor road widening and setting back of ditches and would require assistance from the town to acquire additional rightof-way
- Resurface US 117 Alt. from the southern town limits –
   NCDOT Division 4 has justified the need for this 1/2 mile long project at a cost of \$40,000

## **Current Project Requests and Existing Recommendations**

#### > 2011-2020 Transportation Improvement Program

- R-1030H NC 222 in Wayne County to the bridge over CSX railroad south of US 301 in Wilson County. Resurface
- R-4418 National Highway System guardrail rehabilitation. Upgrade sub-standard guardrail, end treatments and bridge anchor units.
- 3. B-4839 Thoroughfare swamp. Replace bridge No. 96
- 4. B-4842 Great swamp. Replace bridge No. 45
- 5. B-4672 Nahunta swamp. Replace bridge No. 37
- 6. B-4940 Exum Mill Branch. Replace bridge No. 25
- E-4755 Relocation and renovation of the Mount Olive Railroad Depot
- 8. W-5010 SR 1234 (Ebenezer Church Road-Capps Bridge Road) and west of SR 1234. Safety improvements
- W-5333 SR 1135 (Country Club Road). Modify existing crossover by constructing a mainline directional crossover with median U-turn locations approximately 1000 feet north and south of SR 1135

## **Current Project Requests and Existing Recommendations**

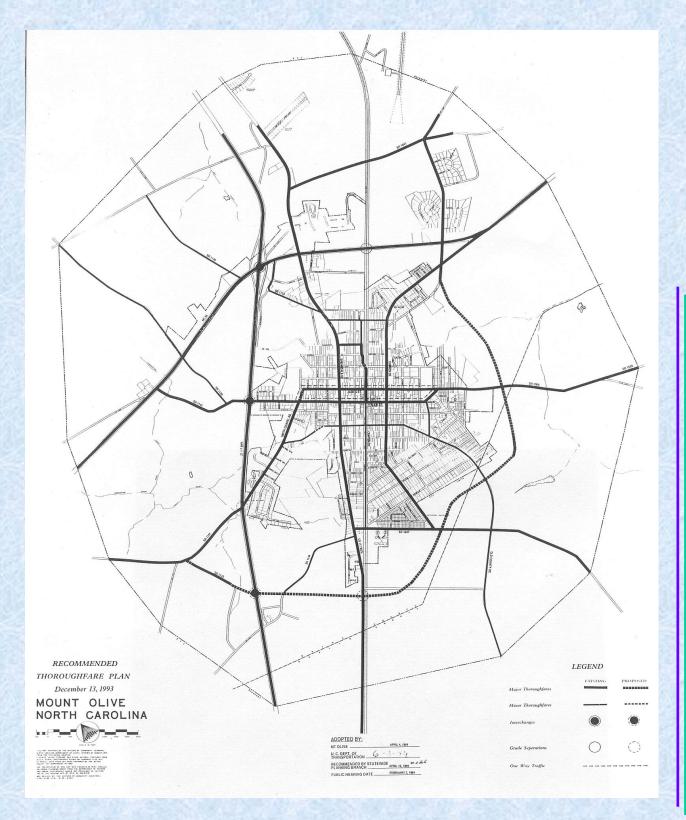
#### NCDOT Strategic Highway Corridors

 US 117 - designated as a full control of access freeway on the Strategic Highway Corridors "Vision Map" which has been adopted by the NCDOT Board of Transportation

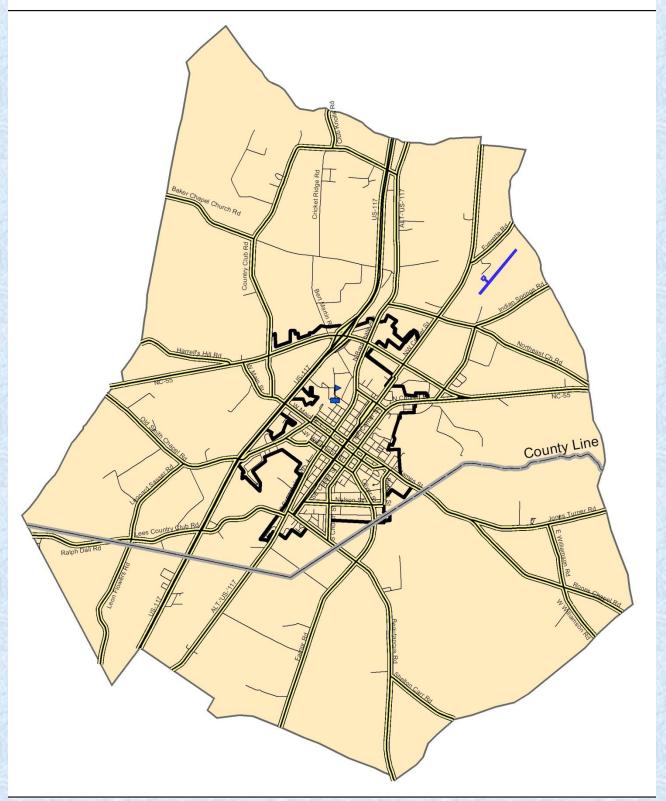
#### > ECRPO Priority List

 Reopen rail service from Castle Hayne to Wallace and improve the tracks and signals - if implemented could significantly increase the amount of train traffic through Mount Olive

### 1994 Thoroughfare Plan



#### Mount Olive Study Area with Road Network to be Analyzed



# Components of a Comprehensive Transportation Plan

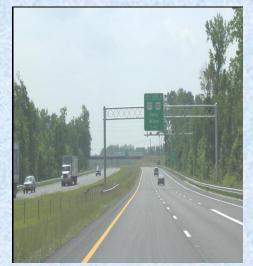
- > Multimodal
  - Roads
  - ➤ Public Transportation and Rail
  - **Bicycle**
  - > Pedestrian
- > Recommendation Categories
  - Existing, Needs Improvement, and Recommended
- ➤ Roadway Facility Types
  - >Freeways
  - > Expressways
  - **Boulevards**
  - ➤ Major Thoroughfares
  - ➤ Minor Thoroughfares



### >Freeway Facility



**US 74 Near Waynesville** 



**US 264 East of I-95** 

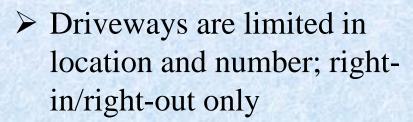
- ➤ High mobility, low access
- > 55 mph or greater
- > Cross-section: Minimum 4 lanes with a median
- > Connections provided only at interchanges; all cross streets are grade-separated
- Driveways not allowed
- > Traffic signals not allowed
- > Examples: I-40, I-95, US 64 between Rocky Mount and Williamston, US 1 between Raleigh and Sanford

### >Expressway Facility



**US 221 (Marion Bypass)** 

- > High mobility, low access
- > 45 to 60 mph
- Cross-section: Minimum 4 lanes with a median
- Connections: Interchanges for major cross streets and atgrade intersections for minor cross streets



- Traffic signals not allowed
- Examples: US 117 north of I-40, US 74 just east of I-277 in Charlotte



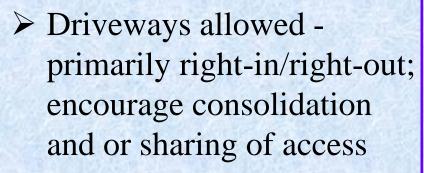
**US 220 in Rockingham County** 

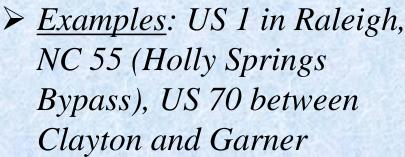
### **≻**Boulevard Facility



**US 70 East of Goldsboro** 

- Moderate mobility, moderate access
- > 30 to 55 mph
- Cross-section: Minimum 2 lanes with a median
- Connections: At-grade intersections for most major and minor cross streets

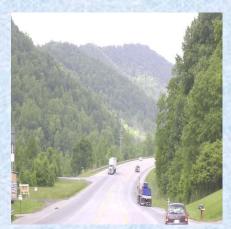






**Cary Parkway** 

## >Major/Minor Thoroughfares



**US 441 South of Dillsboro** 

- Balanced mobility and access
- > 25 to 55 mph
- Cross-section: Minimum 2 lanes, no median; includes facilities with a continuous left turn lane
- Connections: At-grade intersections
- ➤ Driveways allowed with full movements; consolidate or share access if possible
- Examples: NC 86 north of Hillsborough, US 64 in Siler City, US 70 through Kinston, NC 168 in Currituck County



**US 13 North of Ahoskie** 

#### **Questions or Concerns?**

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