



# NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111033

Mode: Highway

Status: Submitted

## SR-118 (Fayetteville Road)

From/Cross Street: Renaissance Parkway

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 751

Project Category: Division Needs

Length: 1.9

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$17,320,000

### Description:

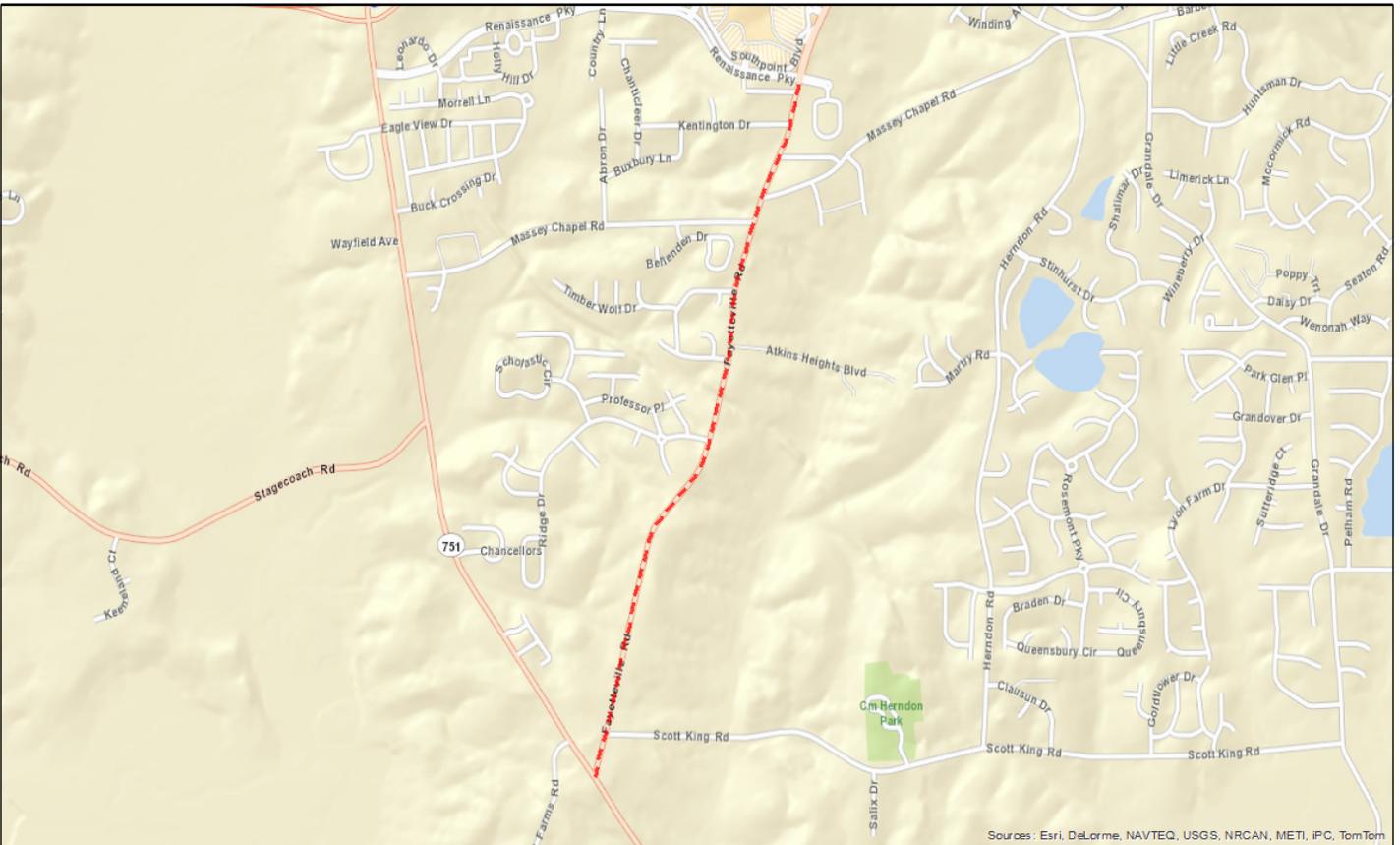
Widen Roadway to Four Lanes with a Median and Bicycle, Pedestrian and Transit Facilities As Appropriate.

Division(s): Division 5

County(s): DURHAM

MPOS(s)/RPO(s): Durham Chapel Hill Carrboro MPO

### Project Location



Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, IPC, TomTom

**Statewide Mobility Total Score: 0**

| Quantitative Score                          | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
|   | N/A                                  | N/A                        |
| <b>Totals: Weight: 0% Weighted Score: 0</b> |                                      |                            |

**Regional Impact Total Score: 0**

| Quantitative Score                          | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
|   | Percent: 15%<br>Points:              | Percent: 15%<br>Points:    |
| <b>Totals: Weight: 0% Weighted Score: 0</b> |                                      |                            |

**Division Needs Total Score: 0**

| Quantitative Score                                      | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
| Congestion (V/C) (20%)                      36.92       | Percent: 25%<br>Points:              | Percent: 25%<br>Points:    |
| Safety (10%)                                      33.44 |                                      |                            |
| [Travel Time] Benefit/Cost (20%)            0.45        |                                      |                            |
| <b>Totals: Weight: 50% Weighted Score: 10.82</b>        |                                      |                            |

**Project Data \*****Existing Conditions**

|   |                |
|---|----------------|
| Existing Cross-Section:                     |                |
| Speed Limit:                                | 45             |
| Length (miles);                             | 1.9            |
| Facility Type:                              | Arterial       |
| Access Control:                             | None           |
| Functional Classification:                  | Minor Arterial |
| Terrain Type:                               | Rolling        |
| Lane Width:                                 | 10             |
| Paved Shoulder Width:                       | 0              |
| Roadway has Curb & Gutter?                  | No             |
| Volume (AADT):                              | 9161.53        |
| Capacity:                                   | 16531.36       |
| Volume/Capacity Ratio:                      | 0.55           |
| % Autos:                                    | 100%           |
| % Trucks:                                   | 0%             |
| Truck Volume:                               | 0              |
| Crash Density:                              | 64.9           |
| Crash Severity:                             | 14.18          |
| Critical Crash Rate:                        | 21.26          |
| Crash Frequency:                            | 0              |
| Severity Index:                             | 0              |
| County Tier Designation:                    | 3              |
| Non-Interstate STRAHNET Route?              | No             |
| Average Commuting Time:                     | 19             |
| Existing Median Type (for Cost Estimation): | Undivided      |
| Pavement Condition Rating:                  | 98             |
| Actual Congested Speed:                     | 34             |
| Travel Time Index:                          | 1.32           |

**Project Benefits**

|  |   |
|--|---|
| Project Cross-Section:                                 | 4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks |
| Speed Limit:   | 45  |
| Length (miles):  | 1.9   |
| Facility Type:   | Arterial  |
| Access Control:  | Partial   |
| Functional Classification:                             | Minor Arterial  |
| Terrain Type:  | Rolling   |
| DOT Design Lane Width:                                 | 12  |
| DOT Design Paved Shoulder Width:                       | 4   |
| Travel Time Savings for 30 Years (Total):              | 352697.03   |
| Travel Time Savings for 30 Years (Autos):              | 352697.03   |
| Travel Time Savings for 30 Years (Trucks):             | 0   |
| Long-Term Employment:                                  |   |
| % Change in Economy:                                   |   |
| Provides Direct Connection to Transportation Terminal? | No  |
| Does project upgrade how the roadway functions?        | No  |
| In CTP or LRTP?  | No  |
| CTP/LRTP Name:   |   |
| CTP/LRTP Completion Year:                              |   |
| Submitted by:  | Division 5  |

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!ine tool and associated databases.

**Project Ownership****Division**

| <b>Division</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Division 5                   | 100%           | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL Division Points</b> |                | <b>0</b>               | <b>0</b>              |

**MPO/RPO**

| <b>MPO/RPO</b>                     | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------------|----------------|------------------------|-----------------------|
| Durham Chapel Hill Carrboro<br>MPO | 100%           | 0                      | 0                     |
|                                    | 0%             | 0                      | 0                     |
|                                    | 0%             | 0                      | 0                     |
| <b>TOTAL MPO/RPO Points</b>        |                | <b>0</b>               | <b>0</b>              |

**Project Cost and Source**

|                        |                     |                      |
|------------------------|---------------------|----------------------|
| Construction Cost:     | \$15,276,000        | TIP Unit             |
| Right-of-Way Cost:     | \$1,825,000         | Cost Estimation Tool |
| Utilities Cost:        | \$219,000           | Cost Estimation Tool |
| Total Project Cost:    | \$17,320,000        |                      |
| Other Funding:         | \$0                 | None                 |
| <b>Cost to NCDOT :</b> | <b>\$17,320,000</b> |                      |