



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H141722

**Mode:** Highway

**Status:** Submitted

## NC-742

**From/Cross Street:** US 52

**Specific Improvement Type:** 5 - Construct Roadway on New Location

**To:** NC 109

**Project Category:** Regional Impact

**Length:** 1.08

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$6,146,000

### Description:

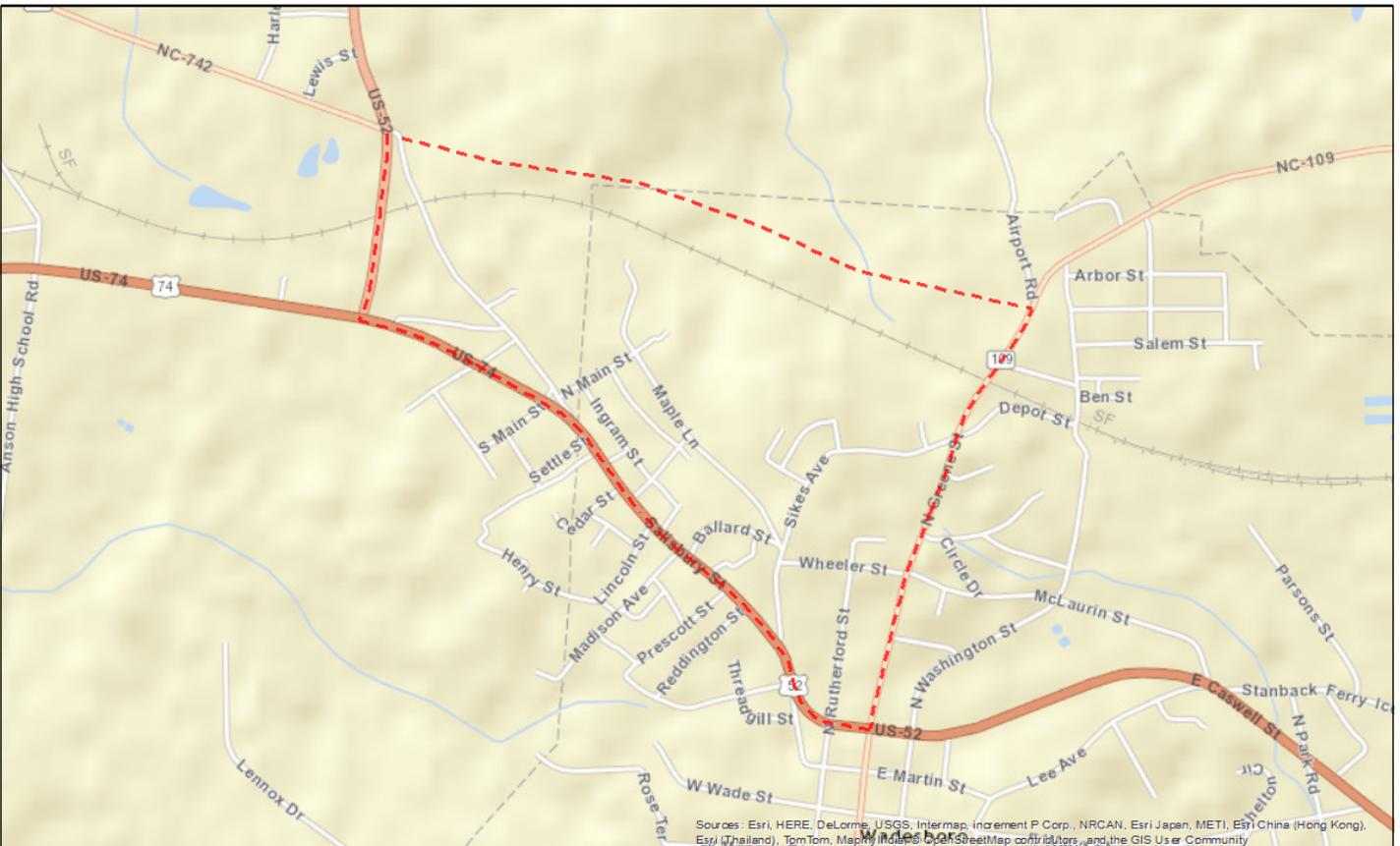
Connect US 52 to NC 109 with the NC 742 extension.

**Division(s):** Division 10

**County(s):** ANSON

**MPOS(s)/RPO(s):** Rocky River RPO

### Project Location



**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: 39.53**

| Quantitative Score                               | Division Engineer Local Input Points | MPO/RPO Local Input Points  |
|--|--------------------------------------|-----------------------------|
| Safety (10%) 54.54                               | Percent: 15%<br>Points: 0            | Percent: 15%<br>Points: 100 |
| Congestion (V/C) (25%) 42.60                     |                                      |                             |
| [Travel Time] Benefit/Cost (25%) 23.74           |                                      |                             |
| Accessibility / Connectivity (10%) 24.86         |                                      |                             |
| <b>Totals: Weight: 70% Weighted Score: 24.53</b> |                                      |                             |

**Division Needs Total Score: 43.72**

| Quantitative Score                               | Division Engineer Local Input Points | MPO/RPO Local Input Points  |
|--|--------------------------------------|-----------------------------|
| Congestion (V/C) (20%) 42.60                     | Percent: 25%<br>Points: 0            | Percent: 25%<br>Points: 100 |
| Safety (10%) 54.54                               |                                      |                             |
| [Travel Time] Benefit/Cost (20%) 23.74           |                                      |                             |
| <b>Totals: Weight: 50% Weighted Score: 18.72</b> |                                      |                             |

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

|   |                          |
|---|--------------------------|
| Existing Cross-Section:                     |                          |
| Speed Limit:                                | 35                       |
| Length (miles):                             | 2                        |
| Facility Type:                              | Arterial                 |
| Access Control:                             | None                     |
| Functional Classification:                  | Other Principal Arterial |
| Terrain Type:                               | Rolling                  |
| Lane Width:                                 | 12                       |
| Paved Shoulder Width:                       | 0                        |
| Roadway has Curb & Gutter?                  | Yes                      |
| Volume (AADT):                              | 14857.27                 |
| Capacity:                                   | 24318.49                 |
| Volume/Capacity Ratio:                      | 0.61                     |
| % Autos:                                    | 80%                      |
| % Trucks:                                   | 20%                      |
| Truck Volume:                               | 2970.07                  |
| Crash Density:                              | 51.91                    |
| Crash Severity:                             | 66.57                    |
| Critical Crash Rate:                        | 45.17                    |
| Crash Frequency:                            | 0                        |
| Severity Index:                             | 0                        |
| County Tier Designation:                    | 1                        |
| Non-Interstate STRAHNET Route?              | No                       |
| Average Commuting Time:                     | 25                       |
| Existing Median Type (for Cost Estimation): | Undivided                |
| Pavement Condition Rating:                  | 76                       |
| Actual Congested Speed:                     | 35.11                    |
| Travel Time Index:                          | 1                        |

**Project Benefits**

|  |   |
|--|---|
| Project Cross-Section:                                 | 2B - 2 Lane Undivided with Paved Shoulders, 25-45 mph |
| Speed Limit:   | 35  |
| Length (miles):  | 1.08  |
| Facility Type:   | Arterial  |
| Access Control:  | None  |
| Functional Classification:                             | Major Collector                                       |
| Terrain Type:  | Rolling   |
| DOT Design Lane Width:                                 | 12  |
| DOT Design Paved Shoulder Width:                       | 4   |
| Travel Time Savings for 30 Years (Total):              | 6111831.45  |
| Travel Time Savings for 30 Years (Autos):              | 4890035.87  |
| Travel Time Savings for 30 Years (Trucks):             | 1221795.58  |
| 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?  | Yes   |
| CTP/LRTP Name:   | Anson County  |
| CTP/LRTP Completion Year:                              | 2012  |
| Submitted by:  | Rocky River RPO                                       |

\* 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**

| Division                     | Percent | Regional Impact | Division Needs |
|------------------------------|---------|-----------------|----------------|
| Division 10                  | 100%    | 0               | 0              |
|                              | 0%      | 0               | 0              |
|                              | 0%      | 0               | 0              |
| <b>TOTAL Division Points</b> |         | <b>0</b>        | <b>0</b>       |

**MPO/RPO**

| MPO/RPO                     | Percent | Regional Impact | Division Needs |
|-----------------------------|---------|-----------------|----------------|
| Rocky River RPO             | 100%    | 100             | 100            |
|                             | 0%      | 0               | 0              |
|                             | 0%      | 0               | 0              |
| <b>TOTAL MPO/RPO Points</b> |         | <b>100</b>      | <b>100</b>     |

**Project Cost and Source**

|                        |                    |                      |
|------------------------|--------------------|----------------------|
| Construction Cost:     | \$5,583,000        | Cost Estimation Tool |
| Right-of-Way Cost:     | \$503,000          | Cost Estimation Tool |
| Utilities Cost:        | \$60,000           | Cost Estimation Tool |
| Total Project Cost:    | \$6,146,000        |                      |
| Other Funding:         | \$0                | None                 |
| <b>Cost to NCDOT :</b> | <b>\$6,146,000</b> |                      |