



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090934

Mode: Highway

Status: Submitted

US-19, US-64, US-74, US-129

From/Cross Street: End of 4 Lane Divided Section

Specific Improvement Type: 11 - Access Management

To: SR 1556 (Martins Creek Road)

Project Category: Statewide Mobility

Length: 1.15

TIP#: FS-0514A

Fully Funded in Draft STIP? No

Cost to NCDOT: \$11,421,000

Description:

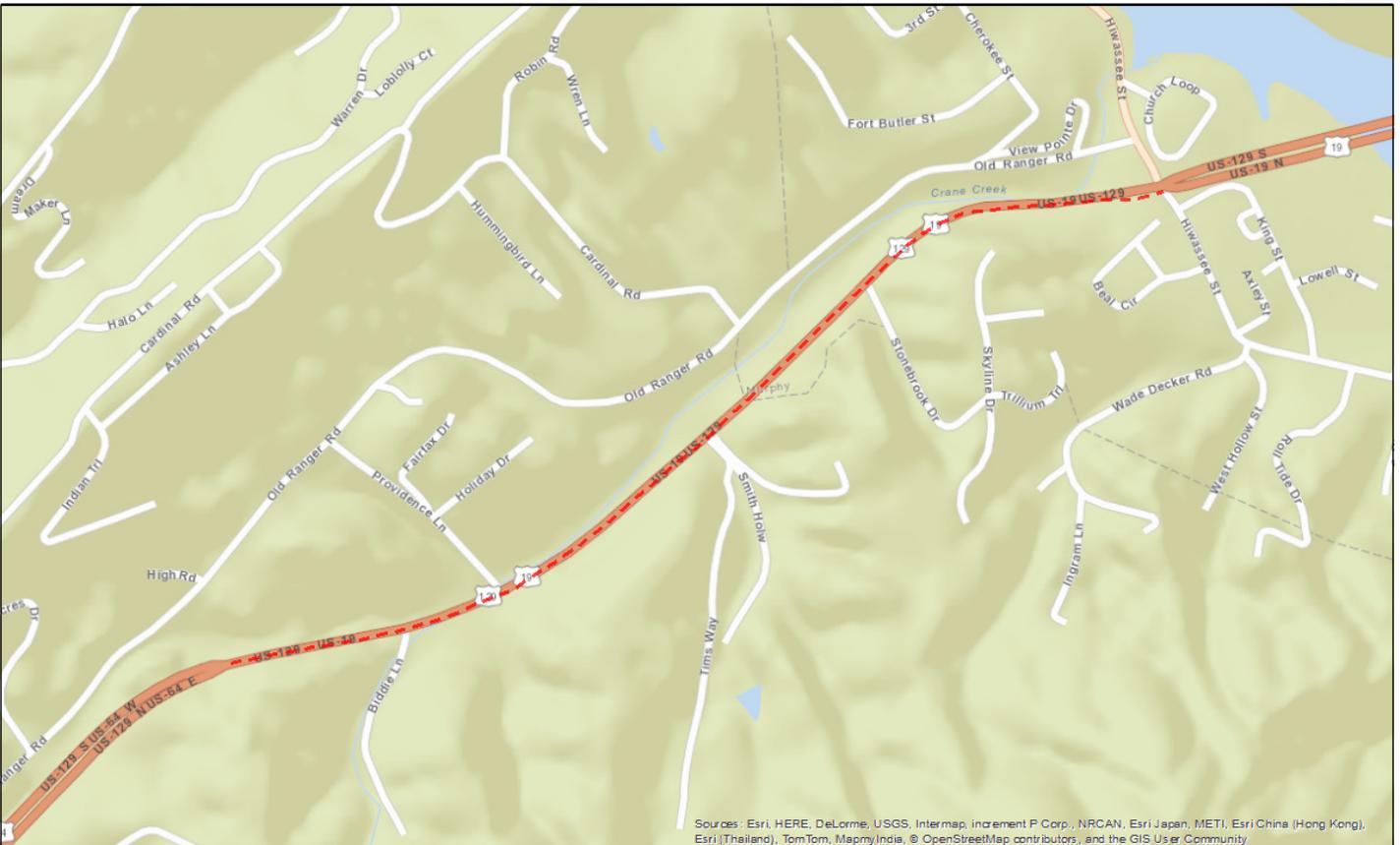
US 19/64/74/129 near Murphy - Mobility and Safety Improvements from the End of the 4 Lane Divided Section to SR 1556, Martins Creek Road..

Division(s): Division 14

County(s): CHEROKEE

MPOS(s)/RPO(s): Southwestern RPO

Project Location



Statewide Mobility Total Score: 18.43

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
| [Travel Time] Benefit/Cost (30%) 0.13 Congestion (V/C) (30%) 31.41 Safety (10%) 59.39 Economic Competitiveness (10%) 0.00 Multimodal + [Freight & Military] (20%) 15.16 | N/A | N/A |
| Totals: Weight: 100% Weighted Score: 18.43 | | |

Regional Impact Total Score: 30.66

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
| Congestion (V/C) (25%) 31.41 Safety (10%) 59.39 [Travel Time] Benefit/Cost (25%) 0.13 Accessibility / Connectivity (10%) 18.40 | Percent: 15% Points: 100 | Percent: 15% Points: 0 |
| Totals: Weight: 70% Weighted Score: 15.66 | | |

Division Needs Total Score: 62.25

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|-----------------------------|
| Congestion (V/C) (20%) 31.41 Safety (10%) 59.39 [Travel Time] Benefit/Cost (20%) 0.13 | Percent: 25% Points: 100 | Percent: 25% Points: 100 |
| Totals: Weight: 50% Weighted Score: 12.25 | | |

Project Data ***Existing Conditions**

| | |
|---|--------------------------|
| Existing Cross-Section: | |
| Speed Limit: | 42 |
| Length (miles): | 1.15 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Rolling |
| Lane Width: | 11 |
| Paved Shoulder Width: | 2 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 18402.76 |
| Capacity: | 45922.11 |
| Volume/Capacity Ratio: | 0.4 |
| % Autos: | 94% |
| % Trucks: | 6% |
| Truck Volume: | 1027.52 |
| Crash Density: | 65.7 |
| Crash Severity: | 46.77 |
| Critical Crash Rate: | 65.7 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 1 |
| Non-Interstate STRAHNET Route? | Yes |
| Average Commuting Time: | 20 |
| Existing Median Type (for Cost Estimation): | TWLTL |
| Pavement Condition Rating: | 98 |
| Actual Congested Speed: | 50.07 |
| Travel Time Index: | 0.42 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 4C - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks |
| Speed Limit: | 42 |
| Length (miles): | 1.15 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Rolling |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 65669.21 |
| Travel Time Savings for 30 Years (Autos): | 62002.57 |
| Travel Time Savings for 30 Years (Trucks): | 3666.64 |
| Long-Term Employment: | 0 |
| % Change in Economy: | 0 |
| 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 14 |

* 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 14 | 100% | 100 | 100 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 100 | 100 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|---------|-----------------|----------------|
| Southwestern RPO | 100% | 0 | 100 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 0 | 100 |

Project Cost and Source

| | | |
|------------------------|---------------------|----------------------|
| Construction Cost: | \$9,918,000 | TIP Unit |
| Right-of-Way Cost: | \$1,342,000 | Cost Estimation Tool |
| Utilities Cost: | \$161,000 | Cost Estimation Tool |
| Total Project Cost: | \$11,421,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$11,421,000 | |