



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090010-A

Mode: Highway

Status: Submitted

I-40

From/Cross Street: I-85

Specific Improvement Type: 1 - Widen Existing Roadway

To: US 15/501

Project Category: Statewide Mobility

Length: 11.72

TIP#: I-3306A

Fully Funded in Draft STIP? No

Cost to NCDOT: \$76,700,000

Description:

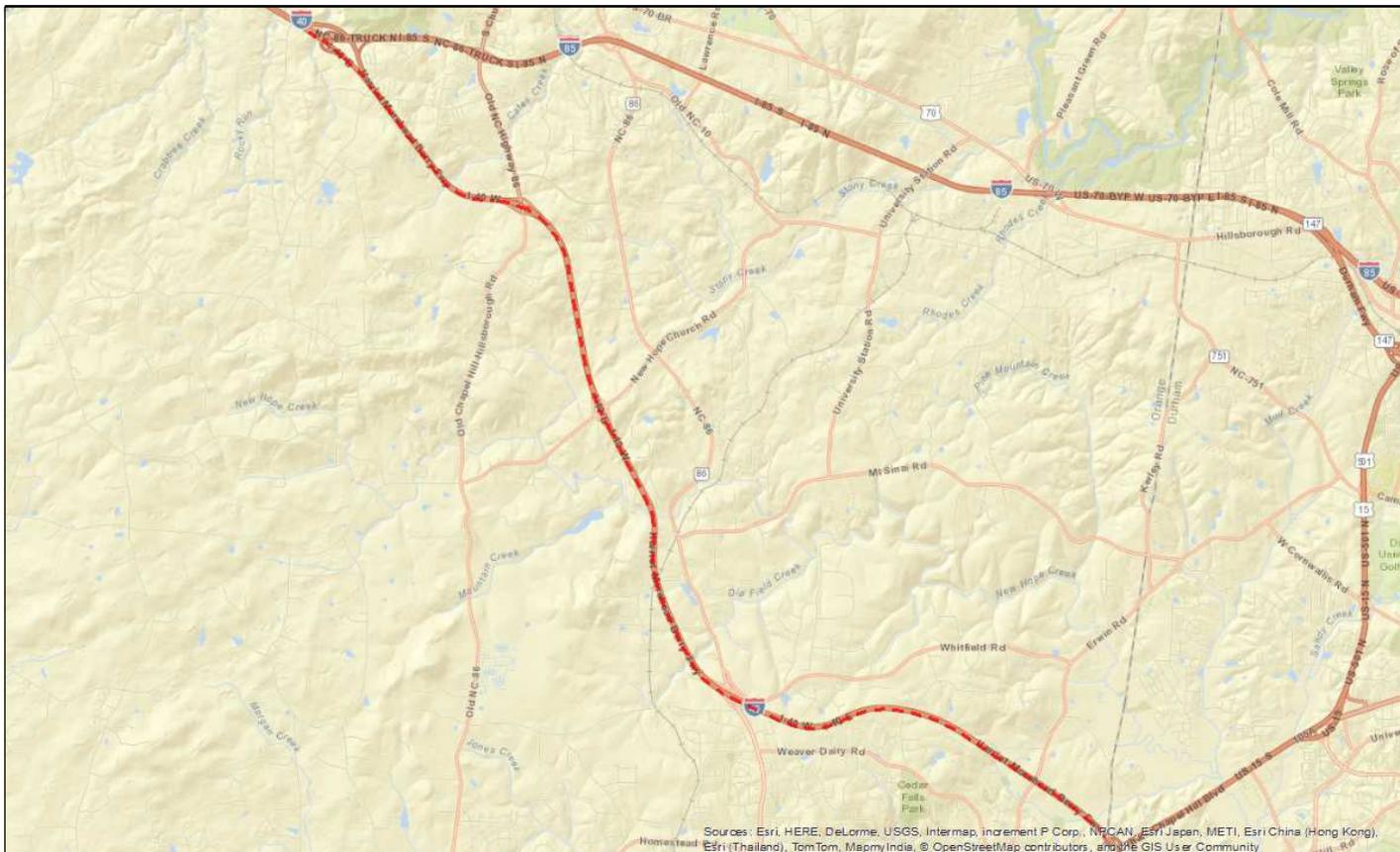
Add Additional Lanes.

Division(s): Division 7

County(s): ORANGE

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

Project Location



Statewide Mobility Total Score: 41.89

| Quantitative Score | | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|-------|--------------------------------------|----------------------------|
| Safety (10%) | 65.05 | N/A | N/A |
| Congestion (V/C) (30%) | 77.96 | | |
| Multimodal + [Freight & Military] (20%) | 26.54 | | |
| [Travel Time] Benefit/Cost (30%) | 7.45 | | |
| Economic Competitiveness (10%) | 44.54 | | |
| Totals: Weight: 100% Weighted Score: 41.89 | | | |

Regional Impact Total Score: 60.18

| Quantitative Score | | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|-------|--------------------------------------|-----------------------------|
| Congestion (V/C) (25%) | 77.96 | Percent: 15% Points: 100 | Percent: 15% Points: 100 |
| Safety (10%) | 65.05 | | |
| [Travel Time] Benefit/Cost (25%) | 7.45 | | |
| Accessibility / Connectivity (10%) | 23.24 | | |
| Totals: Weight: 70% Weighted Score: 30.18 | | | |

Division Needs Total Score: 23.59

| Quantitative Score | | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|-------|--------------------------------------|----------------------------|
| Congestion (V/C) (20%) | 77.96 | Percent: 25% Points: 0 | Percent: 25% Points: 0 |
| Safety (10%) | 65.05 | | |
| [Travel Time] Benefit/Cost (20%) | 7.45 | | |
| Totals: Weight: 50% Weighted Score: 23.59 | | | |

Project Data ***Existing Conditions**

| | |
|---|------------|
| Existing Cross-Section: | |
| Speed Limit: | 65 |
| Length (miles): | 11.72 |
| Facility Type: | Freeway |
| Access Control: | Full |
| Functional Classification: | Interstate |
| Terrain Type: | Rolling |
| Lane Width: | 12 |
| Paved Shoulder Width: | 10 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 63718.04 |
| Capacity: | 72857.02 |
| Volume/Capacity Ratio: | 0.87 |
| % Autos: | 92% |
| % Trucks: | 8% |
| Truck Volume: | 5307.62 |
| Crash Density: | 82.77 |
| Crash Severity: | 45.42 |
| Critical Crash Rate: | 66.97 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 3 |
| Non-Interstate STRAHNET Route? | No |
| Average Commuting Time: | 21 |
| Existing Median Type (for Cost Estimation): | Divided |
| Pavement Condition Rating: | 89 |
| Actual Congested Speed: | 61.42 |
| Travel Time Index: | 1.02 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders) |
| Speed Limit: | 65 |
| Length (miles): | 11.72 |
| Facility Type: | Freeway |
| Access Control: | Full |
| Functional Classification: | Interstate |
| Terrain Type: | Rolling |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 10 |
| Travel Time Savings for 30 Years (Total): | 25093732.34 |
| Travel Time Savings for 30 Years (Autos): | 23003459.45 |
| Travel Time Savings for 30 Years (Trucks): | 2090272.89 |
| Long-Term Employment: | 408 |
| % Change in Economy: | 0.00048285 |
| 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 7 |

* 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 7 | 100% | 100 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 100 | 0 |

MPO/RPO

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

Project Cost and Source

| | | |
|------------------------|---------------------|----------|
| Construction Cost: | \$76,600,000 | TIP Unit |
| Right-of-Way Cost: | \$100,000 | TIP Unit |
| Utilities Cost: | \$0 | TIP Unit |
| Total Project Cost: | \$76,700,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$76,700,000 | |