



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090721

Mode: Highway

Status: Submitted

(North 23rd Street)

From/Cross Street: US 74 (Martin Luther King, Jr. Parkway)

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 133 (Castle Hayne Road)

Project Category: Division Needs

Length: 1.12

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$8,692,000

Description:

Widen North 23Rd Street from US 74 (Martin Luther King, Jr. Parkway) to NC 133 (Castle Hayne Road).

Division(s): Division 3

County(s): NEW HANOVER

MPOS(s)/RPO(s): Wilmington Urban Area MPO

Project Location



Statewide Mobility Total Score: 0

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

Regional Impact Total Score: 0

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

Division Needs Total Score: 0

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-----------------------------------|
| Congestion (V/C) (20%) 51.52 Safety (20%) 47.67 Multimodal + [Freight & Military] (10%) 22.31 | Percent: 25% Points: | Percent: 25% Points: |
| Totals: Weight: 50% Weighted Score: 22.07 | | |

Project Data ***Existing Conditions**

| | |
|---|----------------|
| Existing Cross-Section: | |
| Speed Limit: | 45 |
| Length (miles); | 1.12 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Minor Arterial |
| Terrain Type: | Level |
| Lane Width: | 12 |
| Paved Shoulder Width: | 0 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 12274.34 |
| Capacity: | 15800.09 |
| Volume/Capacity Ratio: | 0.78 |
| % Autos: | 95% |
| % Trucks: | 5% |
| Truck Volume: | 577.31 |
| Crash Density: | 69.91 |
| Crash Severity: | 51.49 |
| Critical Crash Rate: | 21.63 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 3 |
| Non-Interstate STRAHNET Route? | No |
| Average Commuting Time: | 13 |
| Existing Median Type (for Cost Estimation): | Undivided |
| Pavement Condition Rating: | 62 |
| Actual Congested Speed: | 0 |
| Travel Time Index: | 0 |

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): | 1.12 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Minor Arterial |
| Terrain Type: | Level |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 830872.76 |
| Travel Time Savings for 30 Years (Autos): | 791793.75 |
| Travel Time Savings for 30 Years (Trucks): | 39079.01 |
| Long-Term Employment: | |
| % Change in Economy: | |
| Provides Direct Connection to Transportation Terminal? | Yes |
| Does project upgrade how the roadway functions? | No |
| In CTP or LRTP? | No |
| CTP/LRTP Name: | |
| CTP/LRTP Completion Year: | |
| Submitted by: | Division 3 |

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

Project Ownership

Division

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|----------------|------------------------|-----------------------|
| Division 3 | 100% | 0 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 0 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|----------------|------------------------|-----------------------|
| Wilmington Urban Area MPO | 100% | 0 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 0 | 0 |

Project Cost and Source

| | | |
|------------------------|--------------------|----------------------|
| Construction Cost: | \$8,208,000 | TIP Unit |
| Right-of-Way Cost: | \$432,000 | Cost Estimation Tool |
| Utilities Cost: | \$52,000 | Cost Estimation Tool |
| Total Project Cost: | \$8,692,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$8,692,000 | |