

***Draft* FY2016-2025**

Transportation Improvement Program

DIVISION 8 PROJECTS

1. OVERVIEW

This appendix presents the 10-year program of projects included in the FY2016-2025 MTIP. The appendix contains funding information and schedules for transportation modes and programs including: Highways, Aviation, Bicycle and Pedestrian, Ferry, Public Transportation, Rail, Governor's Highway Safety and statewide related programs.

2. ORGANIZATION OF PROJECTS IN THE MTIP

The transportation program in the MTIP is first organized by the three transportation Divisions (5, 7, and 8) that make up the DCHC MPO area. Each Division's section begins with a summary list of projects for the Division. The Divisions are followed by the program of Statewide projects. Each Division section includes a funding source reference table and is divided between highway and non-highway project schedules. Projects frequently extend across county and Division lines, which results in some duplicate projects. When this duplication occurs, a project is listed in every Division in which it is found.

Projects are further subdivided by category: Interstate, Rural, Urban, Federal Bridge, Bicycle and Pedestrian (& Safe Routes to School), Congestion Mitigation, Highway Safety Improvement Program, Ferry, Passenger Rail, and Roadside Environmental. Interstate, Rural, Urban, Bicycle and pedestrian projects are listed by city or county. It is important to note that Highway Funded (HFB) bridge projects are funded from maintenance funds and are not selected through the STI process. Therefore,

they are shown in the STIP and MTIP for information only.

All projects require extensive planning, environmental impact, and design studies. The location and exact type of improvements are subject to refinement and modification during the planning and design phases. The planning, environmental impact, and design phases are not included for every single project because NCDOT does not often specifically break these phases out separately from Right-of-Way (ROW) or Construction phases of projects.

3. MTIP PROJECT INFORMATION SHEETS

Each project information sheet includes a description of the project, a map of the project location (if the project was mappable), the phases of projects listed by Fiscal Year, the costs for each phase, and the anticipated funding sources.

It is important to note that the NCDOT does not always separately identify federal funds and non-federal matching funds for project costs in the STIP. The DCHC MPO attempted to separate federal funds from non-federal matching funds for the majority of projects in the MTIP with the goal of providing additional project cost-related details. The DCHC MPO referred to FHWA's *Guide to Federal Aid Programs and Projects* and FTA funding fact sheets for guidance related to the appropriate funding ratios to use for federal funding programs. Each federal funding program and its associated ratio is available for review in Appendix E of this MTIP.

4. HOW TO READ A PROJECT SHEET

US 70 (Miami Boulevard)

Project Breaks are used to represent different segments or portions of a project and are shown as a letter following the TIP #.



Project Information

HIGHWAY PROGRAM

Full U-5720 project information is Lynn Road in Durham to west of Alexander Drive in Raleigh. Upgrade to controlled-access facility and convert at-grade intersection with SR 1811/SR 1959 to interchange. Total project length is 1.6 miles. Total project cost for the entire project is \$136,124,000. Break A of this project is US 70 (Miami Blvd) from Lynn Road to SR 1959 (S Miami Blvd) / SR 1811 (Sherron Rd). Project costs for only Break A are shown in the table below. Planning and design for this project are in progress.

| | | | |
|------------------------|-----------------|---------------------------------|---|
| TIP # | U-5720 A | <i>Project Types</i> | Intersection Improvements, Upgrade Roadway, Division 5: Highway - Urban |
| MTP # | 116; 116.1 | | |
| Project Length | 1.6 miles | <i>Jurisdictions / Agencies</i> | City of Durham, Durham County, NCDOT, Division 5 |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Corresponding Metropolitan Transportation Plan ID (if applicable)

Corresponding Grant Numbers - applicable for transit-related grants

Location of the project or agency involved with implementation of the project.

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|---------------------------|--------------|-----------------|---------|------------|-------|--------------------|
| T | Utilities | 2022 | 0 | 3,248,000 | 0 | 3,248,000 |
| T | Right of Way | 2022 | 0 | 27,067,000 | 0 | 27,067,000 |
| T | Construction | 2024 | 0 | 26,235,000 | 0 | 26,235,000 |
| T | Construction | 2025 | 0 | 26,235,000 | 0 | 26,235,000 |
| T | Construction | Future Unfunded | 0 | 26,235,000 | 0 | 26,235,000 |
| O | PE/Design | Prior Year | 0 | 0 | 0 | 2,000,000 |
| Total Project Cost | | | | | | 111,020,000 |

See Appendix E for detailed information on funding sources used for each project phase.

Type of work or activity to be completed as phases that make up each project.



Estimated costs for each phase of the project and the total project in current year dollars.

Unfunded project costs - unfunded future commitments

Map of estimated project location (if the project was mappable at the time of the release of the draft MTIP).

FY2016-2025 TIP

DIVISION 8 PROJECTS

| HIGHWAY PROGRAM | | | | | |
|-----------------|---|---|-----------------------------|------------------------------|--------|
| TIP # | PROJECT NAME | DESCRIPTION | PROJECT EXPECTED START DATE | TOTAL ESTIMATED PROJECT COST | PAGE # |
| U-4727 | DCHC MPO Planning Allocation and Work Program | DCHC MPO Planning Allocation and Work Program. This project includes \$233,000 Federal TIGER grant. This project is in progress. | Prior Year | \$15,922,000 | 1 |
| U-5023 | DCHC MPO STP-DA Reserve Funds | DCHC MPO STP-DA Funds - Reserved for future programming. | 2020 | \$22,982,000 | 2 |
| BD-5108 | Division 8 Bridges (BPOC) | Division 8 Purchase Order Contract bridge replacement projects at selected locations. This project is in progress - bridge purchase order contract (BPOC) | Prior Year | \$21,538,000 | 3 |
| EE-4908 | Ecosystem Enhancement Program | Ecosystem Enhancement Program for Division 8 Project Mitigation. This project is in progress. | Prior Year | \$25,842,000 | 4 |
| W-5208 | Highway Safety Projects | Division 8 rumble strips, guardrail, safety, and lighting improvements at selected locations. This project is in progress. | Prior Year | \$4,953,000 | 5 |
| C-4924 B | TJCOG TDM | TJCOG - develop a flexible work schedule for employees and organizations in the Triangle Ozone Non-attainment Area for three years. Full project cost for C-4924 includes funding for the CAMPO. Full project cost (including CAMPO) is \$11,174,000. The funding and schedule for Break B, the DCHC MPO portion, are shown in the table below. This project is in progress by the TJCOG. | Prior Year | \$5,492,000 | 6 |
| C-5176 | American Tobacco Trail (ATT) | American Tobacco Trail in Chatham County, New Hope Church Road Trailhead Park and Ride Lot. This project is under construction by the Town of Cary. | Prior Year | \$1,192,000 | 7 |
| C-5605 | CMAQ in DCHC MPO Area | Projects to improve Congestion and Air Quality in the DCHC MPO area. | 2016 | \$2,453,000 | 8 |

FY2016-2025 TIP ~ DIVISION 8 PROJECTS

| NON-HIGHWAY PROGRAM | | | | | |
|----------------------------|--|---|------------------------------------|-------------------------------------|---------------|
| TIP # | PROJECT NAME | DESCRIPTION | PROJECT EXPECTED START DATE | TOTAL ESTIMATED PROJECT COST | PAGE # |
| EB-5738 | SR 1008 (Mt. Carmel Church Road) Bicycle Lanes | Construct bicycle lanes along Mt. Carmel Church Road from SR 1008 (Old Farrington Point Road) to the Orange County line. | 2016 | \$435,000 | 9 |
| EB-5739 | SR 1532 (Manns Chapel Road) Bicycle Lanes | From SR 1534 (Poythress Road) to US 15/US 501. Construct bicycle lanes. | 2016 | \$705,000 | 10 |
| U-4726 | DCHC MPO Bike/ Ped TAP-Eligible Projects | Durham-Chapel Hill-Carrboro (DCHC) MPO. Bicycle, pedestrian, and Transportation Alternatives Program (TAP)-eligible projects.construct bike and pedestrian features. Planning, design, right of way, and construction by jurisdictions or agencies in the DCHC MPO area. STP-DA and TAP-DA funding reflects unprogrammed balances, programming subject to MPO approval. | Prior Year | \$21,213,000 | 11 |

Highway Program

Project Information

DCHC MPO Planning Allocation and Work Program. This project includes \$233,000 Federal TIGER grant. This project is in progress.

| | | | |
|-----------------|--------|--------------------------|--|
| TIP # | U-4727 | Project Types | Administrative, Other, UPWP , Highway, Urban, Grouping (U-4727) |
| MTP # | | Jurisdictions / Agencies | Carrboro, Chapel Hill Transit (CHT), Chapel Hill, Chatham County, City of Durham, GoDurham, Durham Center for Senior Life, Durham County ACCESS, Durham County, Hillsborough, Lead Planning Agency, Orange County, Orange Public Transit, Triangle J Council of Government, GoTriangle, Division 5, Division 7, Division 8 |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|----------|------------|------------|-------|---------|------------|
| O | Planning | Prior Year | 14,716,000 | 0 | 0 | 14,716,000 |
| STP-DA | Planning | Prior Year | 742,000 | 0 | 166,000 | 908,000 |
| TIGER | Planning | Prior Year | 223,000 | 0 | 75,000 | 298,000 |
| | | Totals | 15,681,000 | 0 | 241,000 | 15,922,000 |



Highway Program

Project Information

DCHC MPO STP-DA Funds - Reserved for future programming.

| | | | |
|-----------------|--------|--------------------------|--|
| TIP # | U-5023 | Project Types | Highway, Urban |
| MTP # | | Jurisdictions / Agencies | Chatham County, Durham County, Orange County, Division 5, Division 7, Division 8 |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|--------------|--------|------------|-------|-------|------------|
| STP-DA | Construction | 2020 | 1,157,000 | 0 | 0 | 1,157,000 |
| STP-DA | Construction | 2021 | 4,365,000 | 0 | 0 | 4,365,000 |
| STP-DA | Construction | 2022 | 4,365,000 | 0 | 0 | 4,365,000 |
| STP-DA | Construction | 2023 | 4,365,000 | 0 | 0 | 4,365,000 |
| STP-DA | Construction | 2024 | 4,365,000 | 0 | 0 | 4,365,000 |
| STP-DA | Construction | 2025 | 4,365,000 | 0 | 0 | 4,365,000 |
| | | Totals | 22,982,000 | 0 | 0 | 22,982,000 |



Highway Program

Project Information

Division 8 Purchase Order Contract bridge replacement projects at selected locations. This project is in progress - bridge purchase order contract (BPOC)

| | | | |
|-----------------|---------|--------------------------|---|
| TIP # | BD-5108 | Project Types | Administrative, Federal Bridge, Highway |
| MTP # | | Jurisdictions / Agencies | Chatham County, NCDOT, Division 8 |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|-------|------------|---------|-------|-------|------------|
| O | Other | Prior Year | 0 | 0 | 0 | 21,538,000 |
| | | Totals | 0 | 0 | 0 | 21,538,000 |



Highway Program

Project Information

Ecosystem Enhancement Program for Division 8 Project Mitigation. This project is in progress.

| | | | |
|-----------------|---------|--------------------------|-----------------------------------|
| TIP # | EE-4908 | Project Types | Mitigation, Highway |
| MTP # | | Jurisdictions / Agencies | Chatham County, NCDOT, Division 8 |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|-------|------------|---------|-------|-------|------------|
| O | Other | Prior Year | 0 | 0 | 0 | 25,842,000 |
| | | Totals | 0 | 0 | 0 | 25,842,000 |



Highway Program

Project Information

Division 8 rumble strips, guardrail, safety, and lighting improvements at selected locations. This project is in progress.

| | | | |
|-----------------|--------|--------------------------|-----------------------------------|
| TIP # | W-5208 | Project Types | Safety, Highway |
| MTP # | | Jurisdictions / Agencies | Chatham County, NCDOT, Division 8 |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|-------|------------|---------|-------|-------|-----------|
| O | Other | Prior Year | 0 | 0 | 0 | 4,953,000 |
| | | Totals | 0 | 0 | 0 | 4,953,000 |



Highway Program

Project Information

TJCOG - develop a flexible work schedule for employees and organizations in the Triangle Ozone Non-attainment Area for three years. Full project cost for C-4924 includes funding for the CAMPO. Full project cost (including CAMPO) is \$11,174,000. The funding and schedule for Break B, the DCHC MPO portion, are shown in the table below. This project is in progress by the TJCOG.

| | | | |
|-----------------|----------|--------------------------|--|
| TIP # | C-4924 B | Project Types | TDM, Congestion Mitigation, Highway, Break |
| MTP # | | Jurisdictions / Agencies | Triangle J Council of Government, Division 5, Division 7, Division 8 |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|----------------|------------|-----------|-------|-----------|-----------|
| CMAQ (L) | Implementation | Prior Year | 0 | 0 | 0 | 2,777,000 |
| CMAQ (L) | Implementation | 2016 | 505,000 | 0 | 829,000 | 1,334,000 |
| CMAQ (L) | Implementation | 2017 | 523,000 | 0 | 858,000 | 1,381,000 |
| | | Totals | 1,028,000 | 0 | 1,687,000 | 5,492,000 |



TRIANGLE J COUNCIL OF GOVERNMENTS

Highway Program

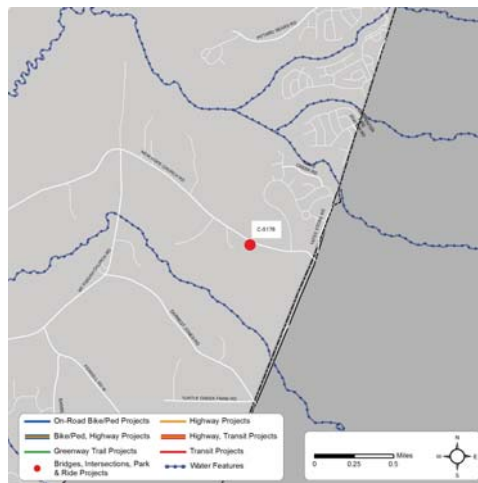
Project Information

American Tobacco Trail in Chatham County, New Hope Church Road Trailhead Park and Ride Lot. This project is under construction by the Town of Cary.

| | | | |
|-----------------|--------|--------------------------|---|
| TIP # | C-5176 | Project Types | Trail or Greenway, Facility - Park & Ride, Congestion Mitigation, Highway |
| MTP # | | Jurisdictions / Agencies | Chatham County, Division 8, Cary |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|-------|------------|---------|-------|-------|-----------|
| CMAQ (L) | Other | Prior Year | 0 | 0 | 0 | 1,192,000 |
| | | Totals | 0 | 0 | 0 | 1,192,000 |



Highway Program

Project Information

Projects to improve Congestion and Air Quality in the DCHC MPO area.

| | | | |
|-----------------|--------|--------------------------|---|
| TIP # | C-5605 | Project Types | Congestion Mitigation, Highway |
| MTP # | | Jurisdictions / Agencies | Chatham County, Durham County, NCDOT, Orange County, Division 5, Division 7, Division 8 |
| Project Length | | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|--------------|--------|-----------|-------|-------|-----------|
| CMAQ (L) | Construction | 2016 | 695,000 | 0 | 0 | 695,000 |
| CMAQ (L) | Construction | 2017 | 1,758,000 | 0 | 0 | 1,758,000 |
| | | Totals | 2,453,000 | 0 | 0 | 2,453,000 |



Project Information

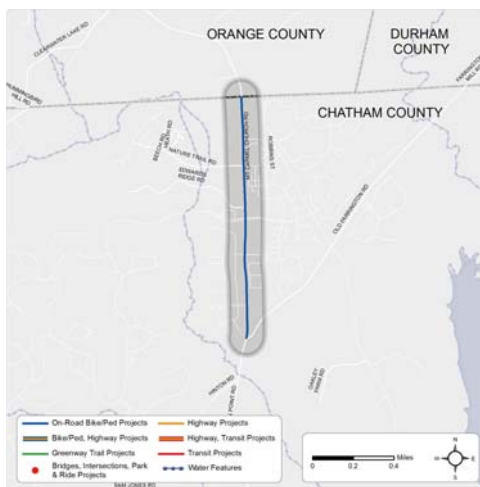
Non-Highway Program

Construct bicycle lanes along Mt. Carmel Church Road from SR 1008 (Old Farrington Point Road) to the Orange County line.

| | | | |
|-----------------|-----------|--------------------------|-------------------------------------|
| TIP # | EB-5738 | Project Types | Non-Highway, Bicycle and Pedestrian |
| MTP # | | Jurisdictions / Agencies | Chatham County, NCDOT, Division 8 |
| Project Length | 1.9 miles | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|--------------|------|---------|-------|--------|---------|
| TAP-DA | PE/Design | 2016 | 20,000 | 0 | 5,000 | 25,000 |
| TAP-DA | Construction | 2017 | 328,000 | 0 | 82,000 | 410,000 |
| Totals | | | 348,000 | 0 | 87,000 | 435,000 |



Project Information

Non-Highway Program

From SR 1534 (Poythress Road) to US 15/US 501. Construct bicycle lanes.

| | | | |
|-----------------|-----------|--------------------------|-------------------------------------|
| TIP # | EB-5739 | Project Types | Non-Highway, Bicycle and Pedestrian |
| MTP # | | Jurisdictions / Agencies | Chatham County, NCDOT, Division 8 |
| Project Length | 3.9 miles | | |
| Grantor Grant # | | | |
| MUNIS Grant # | | | |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|--------------|--------|---------|-------|---------|---------|
| TAP-DA | PE/Design | 2016 | 32,000 | 0 | 8,000 | 40,000 |
| TAP-DA | Construction | 2017 | 532,000 | 0 | 133,000 | 665,000 |
| | | Totals | 564,000 | 0 | 141,000 | 705,000 |



Project Information

Non-Highway Program

Durham-Chapel Hill-Carrboro (DCHC) MPO. Bicycle, pedestrian, and Transportation Alternatives Program (TAP)-eligible projects construct bike and pedestrian features. Planning, design, right of way, and construction by jurisdictions or agencies in the DCHC MPO area. STP-DA and TAP-DA funding reflects unprogrammed balances, programming subject to MPO approval.

| | |
|-----------------|--------|
| TIP # | U-4726 |
| MTP # | |
| Project Length | |
| Grantor Grant # | |
| MUNIS Grant # | |

| | |
|--------------------------|--|
| Project Types | Non-Highway, Bicycle and Pedestrian, Grouping (U-4726) |
| Jurisdictions / Agencies | Carrboro, Chapel Hill, Chatham County, City of Durham, Durham County, Orange County, Various, Division 5, Division 7, Division 8 |

Project Schedule

| Funding Source | Phase | Year | Federal | State | Local | Total |
|----------------|--------------|------------|------------|-------|-----------|------------|
| STP-DA | PE/Design | Prior Year | 531,000 | 0 | 201,000 | 732,000 |
| STP-DA | Construction | Prior Year | 1,994,000 | 0 | 499,000 | 2,493,000 |
| STP-DA | Construction | Prior Year | 5,501,600 | 0 | 1,375,400 | 6,877,000 |
| STP-DA | Construction | 2016 | 353,000 | 0 | 88,000 | 441,000 |
| TAP-DA | Construction | 2016 | 350,000 | 0 | 0 | 350,000 |
| STP-DA | Right of Way | 2017 | 48,000 | 0 | 12,000 | 60,000 |
| TAP-DA | Construction | 2017 | 350,000 | 0 | 0 | 350,000 |
| TAP-DA | Construction | 2018 | 350,000 | 0 | 0 | 350,000 |
| STP-DA | Construction | 2018 | 5,272,000 | 0 | 1,838,000 | 7,110,000 |
| TAP-DA | Construction | 2019 | 350,000 | 0 | 0 | 350,000 |
| TAP-DA | Construction | 2020 | 350,000 | 0 | 0 | 350,000 |
| TAP-DA | Construction | 2021 | 350,000 | 0 | 0 | 350,000 |
| TAP-DA | Construction | 2022 | 350,000 | 0 | 0 | 350,000 |
| TAP-DA | Construction | 2023 | 350,000 | 0 | 0 | 350,000 |
| TAP-DA | Construction | 2024 | 350,000 | 0 | 0 | 350,000 |
| TAP-DA | Construction | 2025 | 350,000 | 0 | 0 | 350,000 |
| | | Totals | 17,199,600 | 0 | 4,013,400 | 21,213,000 |

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