Create and execute continuing, cooperative and comprehensive regional long-range planning efforts that proactively drive transportation decisions to improve safety, connectivity, economic development and quality of life in the Wilmington region.

Technical Coordinating Committee
Meeting Agenda

TO: Technical Coordinating Committee Members
FROM: Mike Kozlosky, Executive Director
DATE: April 7, 2022
SUBJECT: April 13th meeting

A meeting of the Wilmington Urban Area MPO’s Technical Coordinating Committee will be held on Wednesday, April 13th at 10 am. This meeting will be held in the 4th Floor Technology Conference Room located at 305 Chestnut Street in downtown Wilmington. Due to COVID-19, the meeting is being conducted remotely. PLEASE NOTE: This will be a remote meeting conducted pursuant to N.C.G.S. sec. 166A-19.24.

The remote meeting will be simultaneously streamed live online so that simultaneous live audio, and video, if any, of the meeting is available to the public at the following: https://us06web.zoom.us/j/86755841388?pwd=L3ZiWE5vTkxmR2EzTkIIFQktvQj9vQT09

The public may also dial in and listen to the simultaneous live audio of the remote meeting at the following dial in numbers: 301 715 8592 or 646 558 8656 and entering the following credentials:

Meeting ID: 867 5584 1388
Passcode: 158784

Please join the meeting from your computer, tablet or smartphone.

The following is the agenda for the meeting:

1) Call to Order
2) Approval of the Agenda
3) Consent Agenda
   a. Approval of TCC Meeting Minutes- March 16, 2022
   b. Opening of the 30-day public comment period for 2020-2029 STIP/MPO Amendment #22-3
   c. Resolution approving 2020-2029 STIP/MPO Administrative Modification #22-3
   d. Resolution approving the 2022 Legislative Agenda
   e. Resolution supporting the allocation of Section 5310 funding for FY 23
f. Resolution approving the Town of Wrightsville Beach’s application to the North Carolina Department of Transportation’s Bicycle and Pedestrian Planning Grant for a standalone Bicycle and Pedestrian Plan

g. Resolution accepting the 2022 Wilmington Urban Area MPO’s Compensation Study and Recommendations

h. Resolution requesting an Administrative Modification to the 2020-2029 State/MPO Transportation Improvement Program for Public Transportation Projects

5) Discussion
a. 2020-2029 STIP/MPO Transportation Improvement Program Administrative Modifications #22-4
b. Direct Attributable Scoring Criteria
c. 2022 Strategic Plan Implementation

6) Updates
a. Wilmington Urban Area MPO
b. Cape Fear Public Transportation Authority
c. NCDOT Division
d. NCDOT Transportation Planning Division

7) Announcements
a. Wilmington MPO Bike/Pedestrian Committee- April 12th

8) Next meeting- May 11, 2022

Attachments:
- TCC Meeting Minutes- March 16, 2022
- Proposed 2020-2029 STIP/MPO Amendment #22-3
- Proposed 2020-2029 STIP/MPO Administrative Modification #22-3
- Resolution approving 2020-2029 STIP/MPO Administrative Modification #22-3
- Draft Legislative Agenda (Revised April 1, 2022)
- Resolution approving the 2022 Legislative Agenda
- Section 5310 Funding Memorandum
- Resolution supporting the allocation of Section 5310 funding for FY 23
- Resolution approving the Town of Wrightsville Beach’s application to the North Carolina Department of Transportation’s Bicycle and Pedestrian Planning Grant for a standalone Bicycle and Pedestrian Plan
- Resolution accepting the 2022 Wilmington Urban Area MPO’s Compensation Study and Recommendations
- Resolution requesting an Administrative Modification to the 2020-2029 State/MPO Transportation Improvement Program for Public Transportation Projects
- 2020-2029 STIP/MPO Transportation Improvement Program Administrative Modifications #22-4
- Direct Attributable Scoring Criteria Memorandum
- Proposed 2022 Strategic Plan Implementation
- Wilmington Urban Area MPO Update (April)
- Cape Fear Public Transportation Authority Update (April)
- NCDOT Division Project Update (April)
- NCDOT Transportation Planning Division Project Update (April)
Wilmington Urban Area MPO  
Technical Coordinating Committee  
Wednesday, March 16, 2022  
Remote Meeting Minutes

**Members Present**
Stephanie Ayers, NC State Ports Authority  
Helen Bunch, Brunswick County  
Adrienne Cox, NCDOT Division of Highways  
Patrick Flanagan, Cape Fear Council of Governments  
Jeremy Hardison, Town of Carolina Beach  
Adrienne Harrington, Town of Belville  
Matt Kirkland, Town of Leland  
Mike Kozlosky, WMPO  
Vanessa Lacer, Pender County  
Marty Little, New Hanover County  
Abby Lorenzo, MPO Go Coast Program  
Megan Matheny, Cape Fear Public Transportation Authority  
Nazia Sarder, NCDOT Transportation Planning Branch  
Robert O'Quinn, Town of Wrightsville Beach  
Mandy Sanders, Town of Kure Beach  
Denys Vielkanowitz, City of Wilmington

**Members Absent**
Claudia Bray, Town of Navassa  
Granseur Dick, Wilmington International Airport

**Others Present**
Zachary Bugg  
Cheryl Hannah, HDR  
Regina Hopkins, WMPO  
David Hursey  
Scott A. James, WMPO  
Jamar Johnson, WMPO  
Sean Kane  
Rachel McIntyre, WMPO  
Emma Stogner, WMPO  
Tony Sumter

1) **Call to Order**  
Chairman Mike Kozlosky called the remote meeting to order at 10:02 a.m. He acknowledged the presence of new NCDOT Division 3 Planning Engineer Adrienne Cox (in place of Caitlin Marks, who has moved on), new WMPO Associate Transportation Planner Emma Stogner formerly with the Hickory MPO, and WMPO Engineering Associate Jamar Johnson formerly with NCDOT’s Division 5 Highway Construction in Raleigh. He took the roll call pursuant to N.C.G.S. Sec. 166A-19.24. A quorum was present, as follows:

**Present:** Stephanie Ayers, Helen Bunch, Adrienne Cox, Patrick Flanagan, Jeremy Hardison, Adrienne Harrington, Matt Kirkland, Mike Kozlosky, Vanessa Lacer, Marty Little, Abby Lorenzo, Megan Matheny, Behshad Norowzi, Robert O’Quinn, Mandy Sanders and Denys Vielkanowitz. **Absent:** Claudia Bray and Granseur Dick.

2) **Approval of the Agenda**  
Mr. Kirkland made a motion to approve the agenda as presented. Ms. Harrington seconded the motion and it carried unanimously by roll call, as follows:

**Ayes:** Stephanie Ayers, Helen Bunch, Adrienne Cox, Patrick Flanagan, Jeremy Hardison, Adrienne Harrington, Matt Kirkland, Mike Kozlosky, Vanessa Lacer, Marty Little, Abby Lorenzo, Megan Matheny, Behshad Norowzi, Robert O’Quinn, Mandy Sanders and Denys Vielkanowitz. **Nays:** None. **Absent:** Claudia Bray and Granseur Dick.

3) **Consent Agenda**
   a. [Approval of TCC Meeting Minutes- February 9, 2022](#)  
   b. [Resolution approving 2020-2029 STIP/MPO Amendments #22-1 and #22-2](#)  
   c. [Resolution approving 2020-2029 STIP/MPO Administrative Modification #22-2](#)  
   d. [Resolution approving the FY 23 Unified Planning Work Program for the Wilmington Urban Area Metropolitan Planning Organization](#)
e. **Resolution certifying the Wilmington Urban Area Metropolitan Planning Organization’s Transportation Planning Process**

f. **Resolution supporting the City of Wilmington’s application for the North Carolina Emergency Management’s Transportation Infrastructure Resiliency Fund Grant**

g. **Resolution supporting Pender County’s application for the North Carolina Emergency Management’s Transportation Infrastructure Resiliency Fund Grant**

Ms. Cox made a motion to approve the Consent Agenda, Items 3a through 3g as presented, and to forward the items to the MPO Board for consideration. Mr. Flanagan seconded the motion, and it carried unanimously by roll call as follows:

**Ayes:** Stephanie Ayers, Helen Bunch, Adrienne Cox, Patrick Flanagan, Jeremy Hardison, Adrienne Harrington, Matt Kirkland, Mike Kozlosky, Vanessa Lacer, Marty Little, Abby Lorenzo, Megan Matheny, Behshad Norowzi, Robert O’Quinn, Mandy Sanders and Denys Vielkanowitz. **Nays:** None. **Absent:** Claudia Bray and Granseur Dick.

4) **Regular Agenda**

a. **Resolution approving Amendment #3 to the FY 22 Unified Planning Work Program**

MPO Deputy Director Abby Lorenzo said that Amendment #3 to the FY22 Unified Planning Work Program (UPWP) includes several decreases in task line items based on staff’s expected expenditures for the remainder of the fiscal year. She explained that these decreases will be offset by an increase in management and operations line item, which will allow staff to make better use of the MPO budget. Additionally, Amendment #3 includes a special study for Wave Transit to study a transition to zero-emissions vehicles, which will use 5304 funding that is required to be distributed through the MPO.

Ms. Ayers made a motion to approve Amendment #3 to the FY22 UPWP, and to forward the recommendation to the MPO Board for consideration. Ms. Matheny seconded the motion, and it carried unanimously by roll call as follows:

**Ayes:** Stephanie Ayers, Helen Bunch, Adrienne Cox, Patrick Flanagan, Jeremy Hardison, Adrienne Harrington, Matt Kirkland, Mike Kozlosky, Vanessa Lacer, Marty Little, Abby Lorenzo, Megan Matheny, Behshad Norowzi, Robert O’Quinn, Mandy Sanders and Denys Vielkanowitz. **Nays:** None. **Absent:** Claudia Bray and Granseur Dick.

5) **Discussion**

a. **2020-2029 STIP/MPO Transportation Improvement Program Administrative Modifications #22-3**

Mr. Kozlosky said that this item is for informational purposes only and will be brought back for the TCC for consideration at its next meeting.

b. **Wilmington Multi-modal Transportation Center Phase 1B**

Mr. Kozlosky said that the Wilmington Multi-modal Transportation Center Phase 1B has been jointly funded by the City of Wilmington and the Wilmington MPO. He noted that the city held a bid opening in January, and the bid was $647,000 over the engineer’s estimate and outside the project’s budget. For the project to move forward, additional funding for the 20% local match and about $1.8 million in additional Direct Attributable (DA) funding will be needed.

Mr. Kozlosky said that last night, the City of Wilmington agreed to contribute an additional $165,793 in funding for the local match. He noted that New Hanover County expressed an interest in assisting with the funding of the local match and will consider a request for $165,793 at its meeting on March
21st. He added that staff also proposes to use some unallocated funds located in the City of Wilmington’s project budget to provide the local match.

Mr. Kozlosky said that if both entities agree to support the effort, the MPO Board will be approached for an allocation of $1,873,469 in additional funds from the DA program.

In response to an inquiry by Ms. Matheny, Mr. Kozlosky estimated that the required 20% local match totals about $468,000. He noted that the city has in its budget $136,781 in unallocated funds. So, the MPO proposes to use that and reduce the match needed to about $331,000. The city agreed last night to commit $165,793 and the county will consider an action to provide the remaining $165,793 at its meeting on March 21st.

Ms. Matheny inquired about the availability of the funds for capital projects. Mr. Kozlosky responded that the funds are sitting in the account not being used. He noted that staff is currently working on updating the project scoring matrix and the process for the release of DA funds. He added that the next call for projects is anticipated in June, with project selection in September, which would align with the DA funding to become available on October 1st for the next fiscal year.

c. **2022 Legislative Agenda**

Mr. Kozlosky requested some feedback from the TCC members on the draft legislative update. He noted that the 2021 agenda included the priority of restoring protections in the statute related to the Map Act. Since the protections were included in the state budget, the priority been removed from the draft update. He noted that the 2022 priorities include:

- Transportation funding:
  - Identify additional revenue sources
  - Implement recommendations of the NC First Commission to fund transportation projects and priorities in the region.

- Priority highway projects:
  - Hampstead Bypass
  - Military Cutoff and Eastwood Road Interchange
  - Independence Boulevard Extension
  - Martin Luther King Jr. Parkway and Kerr Avenue Interchange
  - Martin Luther King Jr. Parkway, Market Street, and Eastwood Road Interchange

- Highest unfunded priority:
  - Replacement of the Cape Fear Memorial Bridge

- Opposition to the transfer of state road maintenance to counties

- Funding concerns regarding street improvements for schools to be borne by municipalities (2017 Legislation)

- Moped legislations regulating their use on certain facilities (ie: the causeway) to provide for the safety and welfare of citizens of North Carolina

- Electric scooters, support for safe and responsible e-scooters, opposition to visual clutter and the blocking of ADA facilities

Ms. Ayers said that the Port would like to see the South Front Street Project (U-5729) as a top transportation priority for the region. She noted that the route is handling an increase in freight congestion related to the opening of the Port’s south gate and the rerouting of trucks to its north gate. Mr. Kozlosky explained that the Board identified the region’s top-five funded projects. However, the TCC’s suggestions will be presented to the Board for consideration. Ms. Ayers pointed out that construction was
originally scheduled for 2021, was pushed to 2023, and again to 2029. She commented that Cape Fear Memorial Bridge traffic will be brought to a standstill if no improvements are made soon.

Ms. Bunch expressed concerns regarding the priority of the bridge being below the top-five roadway projects. Mr. Kozlosky pointed out that the bridge is the Board’s top unfunded priority. Ms. Bunch requested that information stressing growth be added to the legislative agenda, since many transportation and maintenance needs are due to growth of the region. Mr. Kozlosky said that this would be shared with the Board as well.

Ms. Lacer requested that transportation funding for safety initiatives, pedestrian safety, and Vision Zero be broken out specifically under transportation funding. Mr. Kozlosky responded that staff is working on a priority list from the MPO’s strategic plan, which will be brought back to the TCC for input at its next meeting. He added that Vision Zero and safety were identified during the strategic planning exercises. Ms. Lacer asked that it be included in the legislative agenda.

In response to several inquiries by Mr. Vielkanowitz, Mr. Kozlosky confirmed that the portion of Eastwood Road to Cardinal Drive is included officially in the MLK at Eastwood Project #4209C; and municipalities are included as well as counties regarding the transfer of street maintenance. However, municipalities receive money for maintenance through the Powell Bill. He added that e-bikes are not included here as they are included in a separate legislative section, and scooters would fall under local government controls through their respective codes and ordinances.

Mr. Kozlosky expressed appreciation to committee members and noted their comments and suggestions will be summarized in a memo that will be provided to the Board.

6) Updates
   a. Wilmington Urban Area MPO
   b. Cape Fear Public Transportation Authority
   c. NCDOT Division
   d. NCDOT Transportation Planning Division

Mr. Kozlosky stated that the updates are included in the agenda packet.

7) Announcements
   a. Wilmington MPO Bike/Pedestrian Committee- April 12th
   b. Next TCC meeting- April 13th

Mr. Vielkanowitz inquired about the multi-use path project along 17 Street from Hospital Plaza Drive to Independence Drive. Mr. Kozlosky confirmed that it received funding and is anticipated to move forward.

8) Adjournment
There being no further business, Ms. Bunch made a motion to adjourn the meeting, seconded by Ms. Ayers, and meeting was adjourned at 10:31 a.m. by roll call as follows:


THE ABOVE MINUTES ARE NOT A VERBATIM RECORD OF THE PROCEEDINGS.
THE ENTIRE PROCEEDINGS ARE RECORDED DIGITALLY AS PART OF THIS RECORD.
STATEWIDE PROJECT

STIP ADDITIONS

NCDOT, 5311 ADTAP CAPITAL FUNDING FOR RURAL TRANSIT. ADD FUNDING IN FY 23 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION.

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* TC-003

STATEWIDE PUBLIC TRANS Proj. Category

STATEWIDE PROJECT

NCDOT, FEDERAL AMERICAN RESCUE PLAN (ARP) FUNDS FOR CAPITAL ADD FUNDING IN FY 23 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION.

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STATEWIDE PUBLIC TRANS Proj. Category

STATEWIDE PROJECT

NCDOT - INTEGRATED MOBILITY DIVISION STATE ADMINISTRATION - FUNDS TO SUPPORT THE IMD WITH PROVIDING SUBRECIPIENT MONITORING AND OVERSIGHT AND PROVIDE TECHNICAL ASSISTANCE IN THE DEVELOPMENT OF PROJECTS AND PLANS FOR SMALL URBAN AND RURAL AREAS. ADD FUNDING IN FY 23 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION.

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STATEWIDE PUBLIC TRANS Proj. Category

STATEWIDE PROJECT

NCDOT - INTEGRATED MOBILITY DIVISION STATE ADMINISTRATION - FUNDS TO SUPPORT THE IMD WITH PROVIDING SUBRECIPIENT MONITORING AND OVERSIGHT AND PROVIDE TECHNICAL ASSISTANCE IN THE DEVELOPMENT OF PROJECTS AND PLANS FOR SMALL URBAN AND RURAL AREAS. ADD FUNDING IN FY 23 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION.

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STATEWIDE PUBLIC TRANS Proj. Category

STATEWIDE PROJECT

Proposed Revisions to 2020-2029 STIP/MPO TIP Programs

(March 2022)
## Stip Additions

### NCDOT - Integrated Mobility Division

**Statewide Project**

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**Proposed Revisions to 2020-2029 Stip/Mpo TIP Programs**

March 2022

Stip/Mpo TIP Amendment#22-3
Proposed Revisions to 2020-2029 STIP/MPO TIP Programs

STATEWIDE PROJECT
STIP MODIFICATIONS
NCDOT, 5339 SMALL URBAN MODIFY FUNDING IN FY 22 AT THE REQUEST OF MPO.

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* TC-0020 - STATEWIDE - STATEWIDE PROJECT

Public Trans Project Category

Proposed Revisions to 2020-2029 STIP/MPO TIP Programs

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* TC-0020 - STATEWIDE - STATEWIDE PROJECT

Public Trans Project Category

Proposed Revisions to 2020-2029 STIP/MPO TIP Programs

STATEWIDE PROJECT
STIP MODIFICATIONS
NCDOT, 5339 SMALL URBAN MODIFY FUNDING IN FY 22 AT THE REQUEST OF MPO.
STIP MODIFICATIONS

Proposed Revisions to 2020-2029 STIP/MPO TIP Programs
**STIP MODIFICATIONS**

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*Proposal Revisions to 2020-2029 STIP/MPO TIP Programs*
WILMINGTON URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS
VARIOUS SAFETY IMPROVEMENTS AT VARIOUS LOCATIONS.
ADD RIGHT-OF-WAY IN FY 22 AND CONSTRUCTION IN FY 22 NOT PREVIOUSLY PROGRAMMED.

RIGHT-OF-WAY
FY 2022 - $40,000 (HSIP)
CONSTRUCTION
FY 2022 - $240,000 (HSIP)

W-5703SW
BRUNSWICK
NEW HANOVER
DUPLIN
PENDER
ONSLOW
PENDER
SAMPAISON
NEW HANOVER
STATEWIDE
STATEWIDE
STATEWIDE
STATEWIDE
STATEWIDE

APPROPRIATIONS ($M)
PROJECT MODIFICATIONS

WILMINGTON URBAN AREA METROPOLITAN PLANNING ORGANIZATION

- GRAND STRAND METROPOLITAN PLANNING ORGANIZATION
- MID-CAROLINA RURAL PLANNING ORGANIZATION
- EASTERN CAROLINA RURAL PLANNING ORGANIZATION
- CAPE FEAR RURAL PLANNING ORGANIZATION
- JACKSONVILLE URBAN AREA METROPOLITAN PLANNING ORGANIZATION
- GRAND STRAND METROPOLITAN PLANNING ORGANIZATION

Proposed Revisions to 2020-2029 STIP/MPO TIP Programs

(February 2022)
STIP/MPO TIP Modification #22-3
RESOLUTION APPROVING ADMINISTRATIVE MODIFICATIONS #22-3 TO THE 2020-2029 STATE/MPO TRANSPORTATION IMPROVEMENT PROGRAMS

WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization provides transportation planning services for the City of Wilmington, Town of Carolina Beach, Town of Kure Beach, Town of Wrightsville Beach, Town of Belville, Town of Leland, Town of Navassa, New Hanover County, Brunswick County, Pender County, Cape Fear Public Transportation Authority and the North Carolina Board of Transportation; and

WHEREAS, the Board has found that the Wilmington Urban Area Metropolitan Planning Organization is conducting transportation planning in a continuous, cooperative, and comprehensive manner; and

WHEREAS, the North Carolina Board of Transportation adopted the 2020-2029 State Transportation Improvement Program on September 5, 2019, and the Wilmington Urban Area Metropolitan Planning Organization Board adopted the Statewide/MPO Transportation Improvement Programs on October 30, 2019; and

WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization desires to modify the adopted 2020-2029 State/MPO Transportation Improvement Programs for Administrative Modifications #22-3.

NOW THEREFORE, be it resolved that the Board of the Wilmington Urban Area Metropolitan Planning Organization hereby approves modifying the 2020-2029 State/MPO Transportation Improvement Programs for Administrative Modifications #22-3.

ADOPTED at a regular meeting of the Wilmington Urban Area Metropolitan Planning Organization’s Board on April 27, 2022.

________________________________
David Piepmeyer, Chair

_______________________________
Mike Kozlosky, Secretary
Transportation Funding
The Wilmington Urban Area MPO supports prioritization and funding for local transportation and infrastructure projects and the need to explore new transportation and infrastructure revenue sources to address the growing needs of the state and the nation. Including, but not limited to road, bridges and highway projects, public transportation, ferry, bicycle and pedestrian infrastructure, safety, beach nourishment, inlet and waterway maintenance, coastal storm damage reduction, port infrastructure, airports, etc.

The Wilmington Urban Area MPO encourages the North Carolina Department of Transportation, North Carolina General Assembly, and Governor of North Carolina to modernize the transportation funding model and structure to meet the growing transportation needs of our state.

The Wilmington Urban Area MPO encourage the North Carolina Department of Transportation, North Carolina General Assembly, and Governor of North Carolina to explore and implement new funding mechanisms that could raise the funds necessary to accelerate much needed transportation projects.

Transportation Project Priorities
Due to NCDOT cash management issues many projects across the state and in our region were delayed in the STIP/MPO TIP. As a result of in increases in right of way and construction costs, the 2020-2029 State Transportation Improvement Program approximately $12B over-programmed. The Wilmington Urban Area MPO supports the acceleration of the MPO’s top priorities for projects currently funded in the draft 2023-2032 State/MPO Transportation Improvement Programs. The Board’s transportation priorities are as follows:

- Cape Fear Memorial Bridge (top unfunded priority)
- Hampstead Bypass (R-3300)
- Military Cutoff Road/Eastwood Road Interchange (U-5710)
- Independence Boulevard Extension (U-4434)
- Martin Luther King Jr. Parkway/Kerr Avenue Interchange (U-3338C)
- Martin Luther King Jr. Parkway/Market Street/Eastwood Road Interchange (U-4902C)
- South Front Street Widening (U-5734)
- Carolina Beach Road Widening (U-5729)

Opposition to Transfer of State Road Maintenance
The Wilmington Urban Area MPO respectfully and urgently requests the North Carolina General Assembly reject proposals which would transfer responsibility for large portions of the state’s road system to local governments and weaken or dismantle municipal Powell Bill Street maintenance funding.

Limitation on City Requirements for Street Improvements Related to Schools
SL 2017-57 included language related to street improvements for schools. The Wilmington Urban Area MPO is concerned that on non-state-maintained facilities where improvements related to schools are needed, the funding burden has fallen on the municipalities or the level of service on
the roadways will be compromised. The Wilmington Urban Area MPO encourages the General Assembly to review this language and seek solutions to address this funding concern.

**Moped Legislation**

The Wilmington Urban Area MPO supports the North Carolina Department of Transportation’s policy recommendation of restricting mopeds on public roadways with posted speed limits of 45 mph or greater. The MPO also encourages the North Carolina General Assembly to implement laws that regulate the use of mopeds in a manner that promotes the safety and welfare of the citizens and visitors of North Carolina and pursue education and clarity on existing regulations for mopeds, golf carts, and low-speed vehicles.

**Electric Scooter Legislation**

The Wilmington Urban Area MPO supports the use of electric scooters to provide an alternative mode of transportation so long as the scooters are used in a safe and responsible manner, do not create visual clutter, and do not block parking or ADA accessibility. The allowance and/or use of electric scooters should be subject to local government control through their adopted codes and ordinances.
WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization provides transportation planning services for the City of Wilmington, Town of Carolina Beach, Town of Kure Beach, Town of Wrightsville Beach, Town of Belville, Town of Leland, Town of Navassa, New Hanover County, Brunswick County, Pender County, Cape Fear Public Transportation Authority, and the North Carolina Board of Transportation; and

WHEREAS, to maintain and enhance the transportation infrastructure and quality of life enjoyed by the citizens and visitors of the Wilmington region, the Wilmington Urban Area Metropolitan Planning Organization’s Board is committed to working in partnership with our colleagues, other governmental entities, and our local, state and federal delegation; and

WHEREAS, local governments, the North Carolina General Assembly and the United States Congress all play essential roles in helping the region provide efficient transportation systems; and

WHEREAS, to facilitate these productive relationships with our local, state, and federal partners, the Wilmington Urban Area Metropolitan Planning Organization established a legislative agenda to share with our delegation in the North Carolina General Assembly and United States Congress.

NOW THEREFORE, be it resolved that the Board of the Wilmington Urban Area Metropolitan Planning Organization hereby adopts the 2022 Legislative Agenda.

ADOPTED at a regular meeting of the Wilmington Urban Area Metropolitan Planning Organization’s Board on April 27, 2022.

________________________________________
David Piepmeyer, Chair

________________________________________
Mike Kozlosky, Secretary
MEMORANDUM

TO: TCC members

FROM: Mike Kozlosky, Executive Director

DATE: April 1, 2022

SUBJECT: Section 5310 Community Grant Awards for FY 2023

On June 27, 2014 the North Carolina Secretary of Transportation designated the Cape Fear Public Transportation Authority as “the designated recipient” of the Persons with Disabilities Funding Program (Section 5310). The allocation of these funds required a Federal Transit Administration (FTA) approved Program Management Plan (PMP) which was adopted by the Cape Fear Public Transportation Authority Board on April 23, 2015 and supported by the MPO Board on June 24, 2015.

Eligible applicants for Section 5310 funding are non-profit organizations, state or local governmental agencies, and private operators of public transportation services. These applicants provide matching funds (80/20 capital or 50/50 operating). The total expected federal funding available for this grant award is $73,056. The 2023 grant applications are due for submission to FTA by the end of April 2022. The funds are expected to be available in July 2022.

The Cape Fear Public Transportation Authority received three applications for this funding. The Wave Connect Advisory Committee reviewed and scored these applications and recommends awards to these applicants in the following amounts:

New Hanover County (NHC) Senior Resource Center
- $55,424 Federal funding
- $11,085 Local match (80/20 matching funds)
- $66,509 Total project budget
- Accessible Van Trips: 1,775
Elderhaus at the Lake
- $17,300 Federal funding
- $3,460 Local match (80/20 matching funds)
- $20,760 Total project budget
- Accessible Van Trips: 554

Town of Navassa
- $330 Federal funding
- $66 Local match (80/20 matching funds)
- $396 Total project budget
- RideMICRO Tickets: 198

The NHC Senior Resource Center has received funding for the past four years and is once again being recommended for funding. Elderhaus at the Lake received funding for the past two years and is also being recommended for award in FY 23. Town of Navassa is a new applicant with a project different than previous grant recipients. Town of Navassa is requesting funding for RideMICRO tickets, a new service recently made available in the area, and not for ADA Accessible Paratransit service. Staff recommends support of these grant awards at the April TCC and MPO Board meetings.
WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization provides transportation planning services for the City of Wilmington, Town of Carolina Beach, Town of Kure Beach, Town of Wrightsville Beach, Town of Belville, Town of Leland, Town of Navassa, New Hanover County, Brunswick County, Pender County, Cape Fear Public Transportation Authority, and the North Carolina Board of Transportation; and

WHEREAS, on June 27, 2014, the North Carolina Secretary of Transportation designated the Cape Fear Public Transportation Authority as “the designated recipient” of the Persons with Disabilities Funding Program (Section 5310); and

WHEREAS, the allocation of Section 5310 funds required a Federal Transit Administration approved Program Management Plan which was adopted by the Cape Fear Public Transportation Authority Board on April 23, 2015, and supported by the MPO Board on June 24, 2015; and

WHEREAS, eligible applicants for Section 5310 funding are non-profit organizations, state or local governmental agencies, and private operators of public transportation services; and

WHEREAS, eligible applicants provide matching funds (80/20 capital or 50/50 operating); and

WHEREAS, the total expected federal funding level available for this grant award is $73,056; and

WHEREAS, the Cape Fear Public Transportation Authority received three applications for this funding for FY 2023; and

WHEREAS, the Wave Connect Advisory Committee has reviewed and scored these applications and recommends the New Hanover County (NHC) Senior Resource Center, Elderhaus at the Lake, and Town of Navassa for this funding.

NOW THEREFORE, be it resolved that the Board of the Wilmington Urban Area Metropolitan Planning Organization hereby supports the WAVE Connect Advisory Committee’s recommendation to provide the Section 5310 funding to the New Hanover County (NHC) Senior Resource Center, Elderhaus at the Lake, and Town of Navassa for FY 2023.

ADOPTED at a regular meeting of the Wilmington Urban Area Metropolitan Planning Organization’s Board on April 27, 2022.

________________________________________
David Piepmeyer, Chair

________________________________________
Mike Kozlosky, Secretary
WILMINGTON URBAN AREA METROPOLITAN PLANNING ORGANIZATION
BOARD

RESOLUTION SUPPORTING THE TOWN OF WRIGHTSVILLE BEACH’S
APPLICATION TO THE NORTH CAROLINA DEPARTMENT OF
TRANSPORTATION FOR THE 2022 BICYCLE AND PEDESTRIAN PLANNING
GRANT INITIATIVE TO COMPLETE A STANDALONE BICYCLE AND
PEDESTRIAN PLAN

WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization provides
transportation planning services for the City of Wilmington, Town of Carolina Beach, Town of
Kure Beach, Town of Wrightsville Beach, Town of Belville, Town of Leland, Town of Navassa,
New Hanover County, Brunswick County, Pender County, Cape Fear Public Transportation
Authority, and the North Carolina Board of Transportation; and

WHEREAS, to encourage the development of comprehensive bicycle plans and pedestrian plans
the North Carolina Department of Transportation has created a matching grant program to fund
plan development; and

WHEREAS, the North Carolina Department of Transportation is accepting proposals from
communities for the 2022 Bicycle and Pedestrian Planning Grant Initiative until May 9, 2022;
and

WHEREAS, the program provides funding for municipalities and counties across the state to
develop comprehensive multimodal, bicycle or pedestrian plans; and

NOW THEREFORE, be it resolved that the Board of the Wilmington Urban Area Metropolitan
Planning Organization hereby supports an application by the Town of Wrightsville Beach to the
North Carolina Department of Transportation for the 2022 Bicycle and Pedestrian Planning Grant
Initiative for a standalone Bicycle and Pedestrian Plan.

ADOPTED at a regular meeting of the Wilmington Urban Area Metropolitan Planning
Organization’s Board on April 27, 2022.

______________________________
David Piepmeyer, Chair

______________________________
Mike Kozlosky, Secretary
WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization provides transportation planning services for the City of Wilmington, Town of Carolina Beach, Town of Kure Beach, Town of Wrightsville Beach, Town of Belville, Town of Leland, Town of Navassa, New Hanover County, Brunswick County, Pender County, Cape Fear Public Transportation Authority, and the North Carolina Board of Transportation; and

WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization’s Board adopted the 2022-2026 Strategic Plan on January 26, 2022; and

WHEREAS, the MPO’s adopted 2022-2026 Strategic Business Plan includes an action item to complete a compensation study to compare the MPO staff salaries to the public/private sector in an effort to mitigate turnover; and

WHEREAS, to fulfill this action step, the MPO contracted with Catapult to complete a compensation analysis through their membership with the City of Wilmington; and

WHEREAS, Catapult’s analysis included data from a MPO specific sponsored survey, Catapult, Economic Research Institute, and CompAnalyst; and

WHEREAS, the MPO Board received a presentation on the study and recommendations at its March 30, 2022 meeting; and

NOW THEREFORE, be it resolved that the Board of the Wilmington Urban Area Metropolitan Planning Organization hereby accepts the 2022 Wilmington Urban Area MPO’s Compensation Study and Recommendations.

ADOPTED at a regular meeting of the Wilmington Urban Area Metropolitan Planning Organization’s Board on April 27, 2022.

_________________________________
David Piepmeyer, Chair

_________________________________
Mike Kozlosky, Secretary
RESOLUTION REQUESTING AN ADMINISTRATIVE MODIFICATION TO THE 2020-2029
STATE/MPO TRANSPORTATION IMPROVEMENT PROGRAM FOR PUBLIC
TRANSPORTATION PROJECTS

WHEREAS, the Wilmington Urban Area Metropolitan Planning Organization provides transportation planning services for the City of Wilmington, Town of Carolina Beach, Town of Kure Beach, Town of Wrightsville Beach, Town of Belville, Town of Leland, Town of Navassa, New Hanover County, Brunswick County, Pender County, Cape Fear Public Transportation Authority, and the North Carolina Board of Transportation; and

WHEREAS, the Cape Fear Public Transportation Authority has respectfully requested an administrative modification to the 2020-2029 State and Metropolitan Planning Organization’s Transportation Improvement Programs to include funding allocations to the Section 5310 projects programmed in for FY23 and FY24; and

WHEREAS, the requested modifications are outlined below:

- TQ-8019 / Mobility Manager / FY23: Federal $60,000, Local $15,000 / FY24: Federal $60,000, Local $15,000
- TQ-6513 / Operating Assistance / FY23: Federal $84,672, Local $84,672 / FY24: $88,205, Local $88,208
- TQ-7005 / Project Administration / FY23: $24,192, Local $0 / FY24: $25,202
- TQ-9001 Capital Purchase of Service / FY23: Federal $73,056, Local $18,264 / FY24: $78,613, Local $19,653

WHEREAS, the requested public transportation administrative modifications are required to be submitted by the Metropolitan Planning Organization to the North Carolina Department of Transportation for consideration; and

WHEREAS, if approved, the administrative modifications will be submitted to the North Carolina Department of Transportation and will be considered for formal approval as an upcoming Administrative Modification to the 2020-2029 State and MPO Transportation Improvement Programs.

NOW THEREFORE, be it resolved that the Board of the Wilmington Urban Area Metropolitan Planning Organization hereby requests an Administrative Modification to the 2020-2029 State/MPO Transportation Improvement Program for these public transportation projects.
ADOPTED at a regular meeting of the Wilmington Urban Area Metropolitan Planning Organization’s Board on April 27, 2022.

_________________________________
David Piepmeyer, Chair

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Mike Kozlosky, Secretary
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**STIP MODIFICATIONS**

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- STIP/MPO TIP Modification #22-4
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| FY 2023 | 5311 | Operating Funds | NCDOT, 5311 OPERATING FUNDS FOR FTA GRANTS
| FY 2024 | 5311 | Operating Funds | NCDOT, 5311 OPERATING FUNDS FOR FTA GRANTS

**Note:**
- FY stands for Fiscal Year.
- STIP stands for Surface Transportation Improvement Program.
- MPO stands for Metropolitan Planning Organization.
- FTA stands for Federal Transit Administration.

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**Proposed Revisions to 2020-2029 STIP/MPO TIP Programs**

(March 2022)

STIP/MPO TIP Modification #22-4
STIP MODIFICATIONS

INTERGATED MOBILITY DIVISION

ADD FUNDING IN FY 23 AT THE REQUEST OF THE
STATEWIDE, 310 OPERATING PROJECTS FOR RURAL OPERATIONS

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STATEWIDE, SYSTEM SAFETY OVERSIGHT GRANT

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STATEWIDE, 5310 OPERATING PROJECTS FOR RURAL OPERATIONS

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PUBLIC TRANSM

STIP/MPO TIP MODIFICATION #22-4

MARCH 2022

PROPOSED REVISIONS TO 2020-2029 STIP/MPO TIP PROGRAMS
STIP MODIFICATIONS

WILMINGTON URBAN AREA METROPOLITAN PLANNING ORGANIZATION

(March 2022)

Proposed Revisions to 2020-2029 STIP/MPG TIP Programs

INTEGRATED MOBILITY DIVISION

ADDITIONAL FUNDING IN FY 2023 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION.

STIP MODIFICATIONS

STATEWIDE, H.O.P.E GRANT OPPORTUNITY FROM THE FTA. DISCRETIONARY GRANT AWARDED BY FTA.

PLANNING AND DESIGN IN PREPARATION FOR ELECTRIC VEHICLE DEPLOYMENT.

ADD FUNDING IN FY 2023 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION.

NEW HANOVER

$100,000

FY 2023

$80,000

(5303)

$20,000

(PR0C4)

PUBLIC TRANS

WILMINGTON URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP/MPO TIP MODIFICATION #22-4

$100,000

FY 2023

$80,000

(5303)

$20,000

(PR0C4)

WILMINGTON URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP/MPO TIP MODIFICATION #22-4

(5303)

$100,000

FY 2023

$80,000

(5303)

$20,000

(PR0C4)
Memorandum

To: TCC members

From: Scott A. James, PE
Transportation Planning Engineer, WMPO

Date: April 6, 2022

Subject: Proposed revisions to ranking of STBGP/TASA Direct Attributable projects

The Surface Transportation Program – Direct Attributable (STP-DA)/ Transportation Alternatives Program – Direct Attributable (TAP-DA) programs first awarded funding to WMPO’s member jurisdictions in fiscal year 2013. New legislation has changed the name to the Surface Transportation Block Grant Program -Direct Attributable/Transportation Alternative Set-Aside-Direct Attributable (STBGP-DA/TASA-DA) programs and provided modified guidance. Subsequent funding mechanisms have resulted in additional monies (FAST Act in 2016 and extended in 2019 and the Coronavirus Response and Relief Supplemental Appropriations Act in 2020 (CRRSAA)) being made available for qualified transportation infrastructure projects.

In response, staff has worked to streamline the application process and provide additional clarification of allowable projects, in addition to modifications to the selection methodology used to rank applications. The most recent call for projects used a modified scoring of projects to allow for consequences due to Covid-19 pandemic related events. Of the seven (7) applications, six (6) were for non-automotive projects.

The current STBGP-DA and TASA-DA project ranking methodology assigns the following points during the review of applications (83 points total):

a. Project preference Points (16 points)  d. Accessibility (17 points)
b. Project Readiness (11 points)  e. Safety (10 points)
c. Congestion and Mobility (26 points)  f. Sustainability (3 points)
Staff recommends revising the methodology to reflect both recent applications and the WMPO Board direction provided to staff. The proposed evaluation metrics would total 100 points and are structured in the following manner:

1. Safety – 25 points maximum
2. Congestion Reduction – 25 points maximum
3. Multi-modal elements – 20 points maximum
4. Accessibility improvements – 15 points maximum
5. Project Readiness – 10 points maximum
6. Administration – 5 points

The above allocation of points would have the dual objective of rewarding projects that address safety concerns or capacity improvements, both of which were identified by the WMPO Board as high priorities for these funds. In addition, the increased points for the multi-modal elements will provide for a more nuanced review of non-automotive oriented projects, reflecting recent trends in the applications submitted by member jurisdictions.

Staff will continue to solicit input and suggestions from the WMPO member jurisdictions on the proposed revisions to the ranking methodologies. Our objective is to have a revised set of parameters approved ahead of the next call for projects, tentatively scheduled for Summer 2022.
<table>
<thead>
<tr>
<th>Focus Area</th>
<th>Specific Action</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focus Area: Multi-modal</td>
<td>Support the completion of the Wilmington multimodal Transportation Corridor Plan</td>
<td>2022</td>
</tr>
<tr>
<td>Focus Area: Multi-modal</td>
<td>Support members to adopt Multi-Riparian Zoning and Eco-friendly design projects</td>
<td>2022</td>
</tr>
<tr>
<td>Focus Area: Multi-modal</td>
<td>Implement a comprehensive Direct Attributable Funding and Project Management Training program for members. Annual Board Training and Updates on services/programs provided by the MPO</td>
<td>2022</td>
</tr>
<tr>
<td>Focus Area: Multi-modal</td>
<td>Adopt a Legislative Agenda</td>
<td>March 2022</td>
</tr>
<tr>
<td>Focus Area: Regionally Focused</td>
<td>Enhance the use of Technology to improve operations</td>
<td>On-going/December 2022</td>
</tr>
<tr>
<td>Focus Area: Regionally Focused</td>
<td>Complete the Compensation Study</td>
<td>March 2022</td>
</tr>
<tr>
<td>Focus Area: Regionally Focused</td>
<td>Continue Regular Updates from transportation leaders</td>
<td>On-going/December 2022</td>
</tr>
<tr>
<td>Focus Area: Economic Development</td>
<td>Develop and adopt a Legislative Agenda</td>
<td>March 2022</td>
</tr>
<tr>
<td>Focus Area: Economic Development</td>
<td>Support the NC State Ports Authority in their efforts to expand and enhance operations (Support Ports grant opportunities and work to further the new North Gate, South Front Street, Rail realignement, US 74 upgrades to Wilmington and Cape Fear Memorial Bridge upgrade)</td>
<td>2022</td>
</tr>
<tr>
<td>Focus Area: Economic Development</td>
<td>Support the completion of the Wilmington multimodal Transportation Corridor Plan</td>
<td>2022</td>
</tr>
<tr>
<td>Focus Area: More Organized, Vocal and Cohesive Voice</td>
<td>Implement Traffic Separation Study</td>
<td>Begin April 2022</td>
</tr>
<tr>
<td>Focus Area: More Organized, Vocal and Cohesive Voice</td>
<td>Support members’ desires to apply for Vision Zero and Safe Streets for All People</td>
<td>On-going/December 2022</td>
</tr>
<tr>
<td>Focus Area: Organizational and Operational Effectiveness</td>
<td>Support the completion of the Wilmington multimodal Transportation Corridor Plan</td>
<td>2022</td>
</tr>
<tr>
<td>Focus Area: Organizational and Operational Effectiveness</td>
<td>Support the NC State Ports Authority in their efforts to expand and enhance operations (Support Ports grant opportunities and work to further the new North Gate, South Front Street, Rail realignement, US 74 upgrades to Wilmington and Cape Fear Memorial Bridge upgrade)</td>
<td>2022</td>
</tr>
<tr>
<td>Focus Area: Improve Safety</td>
<td>Encourage and provide funding for walking, biking, public transportation and ferry system through the MPO’s Direct Attributable Program (Update the DA Program scoring criteria)</td>
<td>October 2022</td>
</tr>
<tr>
<td>Focus Area: Improve Safety</td>
<td>Develop and adopt a Legislative Agenda</td>
<td>March 2022</td>
</tr>
<tr>
<td>Focus Area: Improve Safety</td>
<td>Complete the Compensation Study</td>
<td>March 2022</td>
</tr>
<tr>
<td>Focus Area: Improve Safety</td>
<td>Continue Regular Updates from transportation leaders</td>
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<td>Support the completion of the Wilmington multimodal Transportation Corridor Plan</td>
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</tr>
<tr>
<td>Focus Area: Improve Safety</td>
<td>Support members to adopt Multi-Riparian Zoning and Eco-friendly design projects</td>
<td>2022</td>
</tr>
</tbody>
</table>
KURE BEACH BICYCLE AND PEDESTRIAN PLAN
Project Description/Scope: The Town of Kure Beach, Alta, and the WMPO kicked off development of a bicycle and pedestrian plan for the Town of Kure Beach in September 2021. The plan is intended to aid the Town in the development and prioritization of its bicycle and pedestrian infrastructure needs. A kick-off meeting to discuss the Town’s existing bicycle and pedestrian infrastructure and develop a timeline and strategy for public engagement was held in mid-October. A 3-day charrette activity was held November 30th through December 2nd. The charrette included two public meetings and stakeholder interviews. Approximately 150 members of the public attended the two public meetings, with an additional 436 responses providing input through the online interactive map tool. Alta completed an initial draft of the final plan and released to the Steering Committee for initial review in late February 2022. A 30-day public comment period was held during the month of March and included a formal presentation by Alta to Kure Town Council.

Project Status and Next Steps:
• Final plan to be considered for adoption by Kure Beach Town Council in April 2022
• Presentation of final plan to WMPO Board in May 2022

NAVASSA COLLECTOR STREET PLAN
Project Description/Scope: In October, the Town of Navassa, the WMPO, and AECOM kicked off the development of the Navassa Collector Street Plan. Development of the plan, which will serve as an update to the 2004 Town of Navassa Collector Street Plan, is scheduled to last approximately eight months. The plan is funded as a special study in the WMPO’s adopted FY 22 UPWP. The updated collector street plan will serve as a tool for the Town to guide both public and private investments in shaping the transportation network as the Town continues to grow. The plan will provide a comprehensive network of streets to safely and efficiently access major roads and thoroughfares, outline collector street design recommendations, and identify opportunities for multimodal connectivity, preparing the Town to serve future developments while preserving its existing neighborhoods. The proposed collector street network will complement the Town’s future park and trail network as well as the Comprehensive Bicycle and Pedestrian Plan currently in development. Plan development is being guided by a Steering Committee and will incorporate public input received via a public survey and both in-person and virtual public meetings.

Project Status and Next Steps:
• In-person and virtual public meetings held on March 9th and 10th
• Public engagement survey was open from January 25th through March 20th (56 total respondents)
• Development of draft plan (including implementation plan) is ongoing
• Presentation to Navassa Town Council in late spring/early summer 2022
• Presentation to WMPO Board in late spring/early summer 2022

SITE DEVELOPMENT REVIEW
Project Description/Scope: The Wilmington Urban Area MPO assists with site development and Transportation Impact Analysis review for the MPO’s member jurisdictions. During the last month, staff has reviewed the following development proposals:

• New Hanover County Formal Plan Reviews: 13 reviews
• New Hanover County Informal Plan Reviews: 6 reviews
• New Hanover Concept Reviews: 0 review
• Town of Leland Development Plan Reviews: reviews
• Town of Leland Formal Reviews: 9 reviews
• Town of Leland Informal Reviews: 2 reviews
• Town of Navassa Formal Plan Reviews: 0 review
• Town of Navassa Informal Reviews: 1 review
• Town of Navassa Concept Reviews: 0 review
• Town of Belville Formal Reviews: 0 reviews
• Town of Carolina Beach Formal Reviews: 0 reviews
• Town of Carolina Beach Informal Reviews: 0 reviews
• Brunswick County Formal Plan Reviews: 0 reviews
• Brunswick County Informal Plan Reviews: 0 reviews
• TIA Reviews: 42 total active (32 under review; 6 approved; 4 new; 3 waived): New Hanover County 10 (0 new, 9 under review, 1 approved), City of Wilmington 13, (2 new, 2 waived, 2 approved, 7 under review), Carolina Beach 0, Town of Belville 0, Town of Leland 8, (0 new, 7 under review, 1 approved), Town of Navassa 1, (1 waived), Pender County 8 (1 new, 5 under review, 2 approved) and Brunswick County 2, (1 new, 1 under review)
• Pender County Development Plan Formal Reviews: 6 reviews
• Pender County Informal Plan Reviews: 1 review
• Pender County Concept Reviews: 0 reviews
• City of Wilmington Formal Reviews: 42 reviews (13 new, 29 on-going)
• City of Wilmington Informal Reviews: 16 reviews (6 new, 10 on-going)
• City of Wilmington Concept Reviews: 0 reviews
• COW Project Releases 6

STBG-P-DA/TASA-DA FY 2013 to Present STBG-P-DA

U-5534C - WRIGHTSVILLE AVENUE/GREENVILLE AVENUE TO HINTON AVENUE
Project Descriptions/Scope: The project is for construction of intersection re-alignment improvements at the intersection of Wrightsville Avenue/Greenville Avenue and bike lanes and sidewalks along Greenville Avenue from Wrightsville Avenue to Hinton Avenue.

Project Status and Next Steps:
• 90% design review completed in November 2021
• Requested Right-of-Way Authorization in January 2022
• Begin Right-of-Way Acquisition – May 2022
• Advertise for Bid – December 2022
• Begin Construction – May 2023
• Construction Complete- January 2024

U-5534D - TOWN OF LELAND - OLD FAYETTEVILLE ROAD MUP
Project Descriptions/Scope: This project is for design and construction of a ten foot (10') wide multi use path, separate but adjacent to Old Fayetteville Road, beginning at or around the corner of the Leland Town Hall Campus and ending at the driveway of the North Brunswick High School.

Project Status and Next Steps:
U-5534F – CITY OF WILMINGTON – PARK AVENUE MUP – PHASE II
Project Descriptions/Scope: This project is for the design and construction of an off-road multi-use path between Audubon Boulevard and Kerr Avenue.

Project Status and Next Steps:
- Begin Right-of-Way Acquisition – May 2022
- Advertise for Bid – December 2022
- Begin Construction – May 2023
- Construction Complete- January 2024

U-5534G – CITY OF WILMINGTON- HOOKER ROAD MULTI-USE PATH
Project Descriptions/Scope: The project consist of the construction of a 8’ wide multi-use path along Hooker Road from Wrightsville Avenue to Mallard Drive/Rose Ave intersection

Project Status and Next Steps:
- 90% design review completed in November 2021
- Requested Right-of-Way Authorization in January 2022
- Begin Right-of-Way Acquisition – May 2022
- Advertise for Bid –December 2022
- Begin Construction –May 2023
- Construction Complete- January 2024

U-5534H –CITY OF WILMINGTON- HINTON AVE MULTI-USE PATH
Project Descriptions/Scope: This project consists of the construction of an 8’ wide multi-use path along Hinton Avenue from Park Avenue to Greenville Avenue.

Project Status and Next Steps:
- 90% design review completed in November 2021
- Requested Right-of-Way Authorization in January 2022
- Begin Right-of-Way Acquisition – May 2022
- Advertise for Bid –December 2022
- Begin Construction –May 2023
- Construction Complete- January 2024

U-5534I –TOWN OF LELAND- VILLAGE ROAD MULTI-USE PATH EXTENSION
Project Descriptions/Scope: The construction of a 8 foot wide concrete path from the connection at the Brunswick Center in Leland across the front of the library property, down Village Road, ending on the western edge of the First Baptist Church property before the Sturgeon Creek Bridge.
**Project Status and Next Steps:**
- Construction commenced February 8, 2021
- Supplemental Agreement 4 increased the total estimated project cost to $254,842
- Project on hold pending resolution of contracting issues with the consultant
- Project completion extended to June 30, 2022

**U-5534J – TOWN OF LELAND- OLD FAYETTEVILLE LOOP ROAD PEDESTRIAN LOOP**

**Project Descriptions/Scope:** The construction of sidewalks in three locations: 1) The construction of an 8 foot concrete sidewalk along Village Road from Town Hall Drive to the apartment complex and widening the existing 5 foot sidewalk in front of the apartment complex to 8 feet. 2) The construction of a 6 foot sidewalk along Town Hall Drive from Village Road NE to the sidewalk that exists by the new Town Hall. 3) The construction of a 5 foot sidewalk along Old Fayetteville Road from the existing sidewalk in front of the apartment complex to Village Road NE.

**Project Status and Next Steps:**
- Construction commenced February 8, 2021
- Project on hold pending resolution of contracting issues with the consultant
- Project completion extended to June 30, 2022

**U-5534K – TOWN OF LELAND- LELAND MIDDLE SCHOOL SIDEWALK**

**Project Descriptions/Scope:** The construction of 5 foot wide concrete sidewalk adjacent to Old Fayetteville Road from Ricefield Branch Road to the US Hwy 74/76 overpass after Glendale Drive with connections to Leland Middle School and the surrounding neighborhoods.

**Project Status and Next Steps:**
- Construction commenced February 8, 2021
- Supplemental Agreement 4 increased the total estimated project cost to $327,788
- Project on hold pending resolution of contracting issues with the consultant
- Project completion extended to June 30, 2022

**U-5534Q – CITY OF WILMINGTON- S. COLLEGE/HOLLY TREE CROSSWALKS**

**Project Description/Scope:** The project will install sidewalk, ADA ramps, curb and gutter, markings and traffic signal revisions required to install actuated pedestrian crossings of S. College Road and crossings on Holly Tree Road.

**Project Status and Next Steps:**
- AECOM submitted revised 100% Plans, Specs, Estimate (PS&E) to City/NCDOT for final review January 21, 2022
- Resubmit 100% PS&E to NCDOT for Construction Authorization January 31, 2022
- Final Approval on PS&E from NCDOT February 28, 2022
- Bid advertised on March 3, 2022 with May 5, 2022 opening date

**U-5534U – TOWN OF NAVASSA- NAVASSA PARK MULTI-USE PATH**

**Project Description/Scope:** This project will construct bike lanes on both sides of Brooklyn Street, a multi-use path connecting Brooklyn Street to the Navassa Park, and a multi-use path through the Navassa Park forming a loop within the park.

**Project Status and Next Steps:**
- Right Angle provided the 90% plans
- 90% plans and contract documents have been submitted to NCDOT
• CE Document has been approved
• Right-of-way authorization approved
• Construction fund authorization request will occur next federal fiscal year (FY 2022)

EB-6025- TOWN OF BELVILLE- RICE HOPE MULTI-USE PATH
Project Description: The project consists of the construction of a multi-use path of eight feet (8') wide located at the western side of NC 133 between Morecamble Blvd and Rice Hope Run.

Project Status and Next Steps:
• The Town has entered into a contract with Withers & Ravenel
• Kick-off meeting was held on November 6th
• A groundbreaking ceremony was held on November 20, 2020
• 100% plans are under review
• Contract proposal (with cost estimate) under review
• Project remains on track for a September 2022 LET

U-6234 MULTI-MODAL PHASE 1 B
Project Description/Scope: Rehabilitation of the historic structure located at 525 N 4th Street for a transportation purpose

Project Status and Next Steps:
• Bids opened on January 27, 2022, bids exceeded available funds
• WMPO secured additional funding from City of Wilmington and WMPO
• WMPO now preparing contract documents for review and approval

U-6235 – City of Wilmington/New Hanover County – Signal Pre-emption Phase 2
Project Description/Scope: The project will install traffic pre-emption equipment at 50 locations throughout the City of Wilmington and New Hanover County and GPS equipment on emergency response vehicles.

Project Status and Next Steps:
• Design contract approved May 5, 2021 by City Council: execution complete.
• Design kick-off meeting held July 23, 2021 with Wilmington Fire Department, Traffic Engineering and Davenport Staff.
• Design started in October 2021 and expected to last through November 2022

U-6039 – CAROLINA BEACH – ST. JOSEPH BIKE LANES
Project Description/Scope: Construct Bike Lanes along St. Joseph Avenue and Lewis Drive from Lake Park Boulevard to Access Drive in Carolina Beach

Project Status and Next Steps:
• NCDOT funding availability reopened January 25, 2021
• Town Council elected to move forward with the project and will upload information into EBS.
• As of May 3, 2021 funding amounts have been revised to reflect $457,777 STBGP- DA funds and $114,445 local match to reflect approved funding
• Design revisions are under discussion with KHA
• Agreement executed with NCDOT on August 18, 2021
• Design discussions held with KHA on August 31, 2021, delivery schedule forthcoming

TASA-DA
EB-6026 - TOWN OF BELVILLE - BELVILLE ELEMENTARY - MULTI-USE PATH  
**Project Description:** The project consists of the construction of a multi-use path of eight feet (8’) wide located along NC 133 connecting north and south entrances of Hawks Water Development to Belville Elementary School.

**Project Status and Next Steps:**
- The Town has entered into a contract with Withers & Ravenel
- A Kick-off meeting was held on November 6th
- A groundbreaking ceremony was held on November 20, 2020
- 100% plans are under review
- Contract proposal (with cost estimate) under review
- Project remains on track for a September 2022 LET

EB-6027 – NEW HANOVER COUNTY - MIDDLE SOUND GREENWAY  
**Project Description:** Design only of the Middle Sound Greenway connection to Ogden Park

**Project Status and Next Steps:**
- Responded to DOT comments on 75% plans on November 16, 2021
- ROW acquisition continuing

EB-6028 – CITY OF WILMINGTON - 21ST STREET/MARKET HAWK SIGNAL  
**Project Description:** Design and construction of a HAWK signal at the pedestrian crossing at Market Street and 21st Street

**Project Status and Next Steps:**
- 100% Final Plans uploaded to NCDOT EBS on February 8, 2022.
- Awaiting NCDOT review/approval.

EB-6029 – TOWN OF CAROLINA BEACH – CLARENDON AVENUE MULTI-USE PATH  
**Project Description:** Construction of the Clarendon Avenue multi-use path from 4th Street to Dow Road

**Project Status and Next Steps:**
- The Town is evaluating the scope for the project.
- Design modifications requested to include five-foot sidewalk and on street pavement markings in lieu of multi-use path

**TRANSPORTATION DEMAND MANAGEMENT PROGRAM**  
**Project Description/Scope:** The TDM “Go Coast” program works to increase the use of alternative transportation by WMPO residents and decrease Vehicle Miles Traveled (VMT). The WMPO Board approved Cape Fear Change in Motion 2020, the short-range TDM Plan which will guide Go Coast initiatives from 2021 to 2025. This plan identifies seven short-range strategies to increase mobility options and reduce traffic in the WMPO region. These strategies are: Alternative Work Schedules, Bike Share Program, Carpool and Vanpool, Consulting for Telecommuting Opportunities, Fostering a Bicycle and Pedestrian Friendly Culture, Improved TDM-Focused Collaboration, and Personalized Commuter Plans.

Go Coast current initiatives and project status:

1. Bike Share  
The WMPO Board approved the release of a new Request For Proposal to bring a bike share program to
the Wilmington area. The RFP has been released by the City of Wilmington on behalf of the WMPO with proposals due by close of business on April 11th, 2022.

2. Bicycle Suitability Map Update
The Bicycle and Pedestrian Advisory Committee has approved a final draft with of the Wilmington Area Bike Suitability Map. Staff is working to develop to finalize the format of this map for print and online use.

3. Commute Friendly NC
   a. Go Coast has been working with state TDM partners to develop the “Commute Friendly North Carolina” program which designates organizations as “commuter friendly” if they offer commuter benefits/resources to employees and affiliates.
   b. This program has been launched and can be found online at https://commutefriendlync.com/
   c. This program recognizes organizations on a state level for their efforts to provide commuter benefits and provides organizations an opportunity to directly connect with Go Coast.

4. River to Sea Bike Ride
     Planning is underway for the 32nd Annual River to Sea Bike Ride to be held Saturday May 7th.
     Registration was opened on March 18th.

5. Bike Month
     Planning is underway for Go Coast Bike Month.

6. The next Go Coast meeting is May 19, 2022
### 1. Service Enhancements Scheduled for July 2022

On Tuesday February 8, 2022, the Wave Transit Board of Directors voted unanimously to adopt a proposal to expand the existing network, as well as investing in more frequent service! In November 2021, a recommendation was presented for consideration with adoption of a finalized draft slated for January 2022. The regularly scheduled January 27th meeting was recessed to February 8th to continue discussion on the network redesign, following the announcement from Federal Transportation Administration (FTA) on an additional $108 billion authorized for public transportation under the Bipartisan Infrastructure Law. The new law will increase Wave Transit’s federal formula funding by approximately $700,000 each year in over the next five years. Provided this added information, the Board of Directors voted to advance a revised framework which would result in increased frequencies on 30% of the fixed routes, enlarge Wave Transit’s service footprint, and improve efficiencies. The draft proposal is as follows:

- Retain current urban core network with peripheral improvements
- Replace Routes 207 North and 301 Pleasure Island with an on-demand microtransit service delivery model, which is responsive and serves a much larger geographic area
- Introduce 30-minute service frequencies on three routes, including Route 108 Market Street, Route 201 Carolina Beach Road, and Route 205 Long Leaf Park
- Offer 60-minute continuous, uninterrupted frequencies for Route 107 College Rd. for better consistency
- Revise Route 104 East offering transit service on Market Street east of College Rd. for the first time, and shifting coverage of Gordon Road and North College Road to the flexible microtransit service
- Interline Route 107 College Rd. and Route 201 Carolina Beach Rd. at Monkey Junction, reducing transfers resulting in better customer service
- Implement a seasonal trolley schedule, reallocating resources to the most productive hours

The service enhancements will take effect at the beginning of July. Customers and members of the public have an opportunity to provide comment through a general survey offering. Responses can be submitted online at [https://www.wavetransit.com](https://www.wavetransit.com) or in-person at Forden and Padgett Stations. Additional information regarding the service improvements included under the draft framework can be obtained through the Authority’s website, at the two main transfer stations, or through the main office at (910) 343-0106.

### 2. Wilmington Regional Microtransit Pilot Project - RideMICRO

The Authority entered into a regional agreement in May of 2021, to provide on-demand, microtransit services within, and between, Brunswick County, New Hanover County, and Pender County. The revised service offering provides more efficient and cost-effective public transportation to locations under- or un-served by public transportation. The alternative mobility option will result in decreased wait times for customers, affordable fare, which are equal to existing fixed route fares, and finally, the availability of smartphone app technology for trip reservations and fare payment.

Monday, October 11, 2021 marked the official launch of the program beginning with service to **Zone 1 Northern Brunswick/Downtown Wilmington** and **Zone 2 Pender/Northeastern New**
Hanover County. Service to Zone 3 Southern New Hanover/Pleasure Island was implemented December 1, 2021. Service to the fourth and final zone, Zone 4 Northern New Hanover County will go live April 2022. The three active zones contain a combined total of over 3,270 virtual stop locations. Please consult the following link to view virtual stops within each active zone: https://arcg.is/1KvyOS.

The full technology suite for the RideMICRO program and weekday service hours expanded to 7:00 am to 10:00 am and 12:00 to 7:30 pm on Monday, January 17, 2022. Customers are now able to book trips, pay fares, plan routes, identify the closest virtual stop, and track their vehicle in real time through the RideMICRO app. A multimodal trip planning feature was incorporated into the app on March 13, 2022, offering seamless planning across all Wave Transit transportation services. Wave Transit staff challenges you to RideMICRO!

The fourth and final zone servicing Northern New Hanover County will launch on Monday, April 18th.

From program inception through March 31, 2022, there have been a total of 687 passenger trips, with increasing productivity since the implementation of services.

NCDOT’s ConCPT and community grants fully funded the service at 100%. This is a 12-month pilot project, with options to extend pending availability of grant funds. The FY2023 application for a second year of support was submitted and final approval by NCDOT is currently pending.

3. Update on Section 5310 Community Grant Offering

The Authority received responses from three community organizations in response to the publication of the FY2023 Section 5310 Community Grant offering. The respondents include, Elderhaus Adult Daycare Services, New Hanover County Senior Resource Center (SRC), and Town of Navassa. Elderhaus and the SRC are recipients of the current, FY2022 community grant awards and have demonstrated need for continued support for next fiscal year.

The WaveConnect Advisory Group that oversees the community grant process convened in March 2022 to review and score the applications and draft a recommendation for award. The recommendation will be presented to the WMPO and Authority’s Board of Directors for consideration and approval April 2022.

It is the recommendation of the WaveConnect Advisory Group and Wave Transit staff that all three projects receive funding. The total requested by the three applicants exceeds available funding. We recommend funding each project proportional to its average score and within the $73,056 budget. The scoring details and recommended funding amounts are as follows:

<table>
<thead>
<tr>
<th>Applicant</th>
<th>Total Funding Requested</th>
<th>Score</th>
<th>Recommended Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elderhaus</td>
<td>$18,000</td>
<td>96%</td>
<td>$17,300</td>
</tr>
<tr>
<td>NHC SRC</td>
<td>$56,000</td>
<td>99%</td>
<td>$55,424</td>
</tr>
<tr>
<td>Town of Navassa</td>
<td>$500</td>
<td>69%</td>
<td>$330</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$74,500</strong></td>
<td></td>
<td><strong>$73,054</strong></td>
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<tr>
<td>Project Management Calendar</td>
<td>Contract Type</td>
<td>Description</td>
<td>County</td>
</tr>
<tr>
<td>-----------------------------</td>
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</tr>
<tr>
<td>Project Manager Contract Type</td>
<td>TIP</td>
<td>Rail Division Rail P-5740A Wilmington Rail Rehabilitation, Curve Realignment and Upgrade Rail Bridges New Hanover</td>
<td>4/1/2022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rail Division Rail P-5740C CSX SE Line Installation of Railroad Grade Crossing Signals and Gates at Various At-Grade Crossings New Hanover</td>
<td>6/1/2022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eric Murray DPOC Widen NC 133 from US 17/74/76 to Old River Road Brunswick</td>
<td>6/2/2022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Derek Pielech DPOC BP3-R004 Brunswick 181 over Sturgeon Creek on SR 1437 (Previously 17BP.3.R.8</td>
<td>6/23/2022</td>
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<tr>
<td></td>
<td></td>
<td>David Leonard DPOC W-5703E US 117/NC 132 (College Road) sidewalk between Randall Pkwy and N of University Drive New Hanover</td>
<td>8/4/2022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eric Murray DPOC W-5601DH 3rd Street and Dock Street Intersection New Hanover</td>
<td>10/21/2022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trace Howell DPOC W-5703R NC 132 (South College Road) and Bragg Drive offset left New Hanover</td>
<td>9/15/2022</td>
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<tr>
<td></td>
<td></td>
<td>David Leonard DPOC W-5803B Install Rumble Strips on US 17 Between New Hanover/Pender County and Mile Post 19.30 in Onslow County Pender &amp; Onslow</td>
<td>10/31/2022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eric Murray DPOC W-5703C Monkey Junction Pedestrian Improvements New Hanover</td>
<td>11/17/2022</td>
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<td></td>
<td></td>
<td>David Leonard DPOC W-5803A Upgrade Pedestrian &amp; Traffic Signals and Revise Median Islands at US 74 (Eastwood Road) at US 17 (Military Cutoff Road) and US New Hanover</td>
<td>1/31/2023</td>
</tr>
<tr>
<td></td>
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<td>Rail Division Rail P-5740B CSX SE Line Improvements to Hwy Grade Crossings, Close &amp; Improve Various Existing At-Grade Crossings New Hanover</td>
<td>4/28/2023</td>
</tr>
<tr>
<td></td>
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<td>Lydia DDRL I-6039 1-40 Pavement rehab from Milemarker 420 to NC 210 New Hanover &amp; Pender</td>
<td>6/20/2023</td>
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<tr>
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<td>Krista Kimmel DDRL U-5926 New Route from 23rd St to 26th St New Hanover</td>
<td>12/19/2023</td>
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<td>Brian Harding DDRL U-6202 Widen Gordon Road to 4 lanes from US 17 Market St to I-40 New Hanover</td>
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<td>Lydia DPOC I-6036 I-140 ‐ US 17 to North of US 74 pavement rehab Brunswick</td>
<td>10/17/2024</td>
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<td>Derek Pielech DPOC 17BP.3.R.93 BP3-R012 Replace Bridge 208 over Sturgeon Creek on SR 1472 (Village Road) in Brunswick County Brunswick</td>
<td>7/1/2025</td>
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<td>Derek Pielech DPOC B-5653 Pender 14 on NC 133 over Turkey Creek Pender</td>
<td>1/28/2026</td>
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<td>Lydia DDRL I-6037 I-140 from US 421 to I-40 pavement and bridge rehab New Hanover</td>
<td>2/17/2026</td>
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<td>Mike Bass DDRL U-5710 US 74 (Eastwood Road) at US 17 (Military Cutoff Rd New Hanover</td>
<td>9/16/2025</td>
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<td>Trace Howell DDRL U-5792 MLK at College New Hanover</td>
<td>6/16/2026</td>
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<td>Trace Howell DDRL R-3300A Hampstead Bypass (US 17 from Military Cutoff Road to NC 210) New Hanover &amp; Pender</td>
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<td>Brian Harding DDRL U-5954 NC 133 at 23rd Street Roundabout New Hanover</td>
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<td>Derek Pielech Raleigh BR-0008 Replace Bridge 7 on US 17 over US 76 Brunswick</td>
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<td>Lydia DPOC I-6037 I-140 From US 421 to I-40. Pavement &amp; Bridge Rehabilitation New Hanover</td>
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<td>Brian Harding DDRL U-5731 US 421 Carolina Beach Rd Median with intersection improvement at Shipyard and US 421 New Hanover</td>
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<td>Krista Kimmel DDRL U-4434 Independence Boulevard Extension New Hanover</td>
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<td>Brian Harding DDRL U-5729 US 421 Carolina Beach Rd Median with intersection improvement at Shipyard and US 421 New Hanover</td>
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<td>Trace Howell DDRL U-5702B College Road Access Management Improvement from Carolina Beach Road to Shippaint Blvd New Hanover</td>
<td>1/15/2030</td>
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<td>Alex Stewart</td>
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<td>B-4590</td>
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<td>49404</td>
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<td>R-2633BA(L)</td>
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<td>Alex Stewart</td>
<td>U-4751</td>
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<td>SR 1187 (Sanders Road)</td>
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<td>DC00331</td>
<td>Lydia McKeel</td>
<td>Brunswick, Duplin, New Hanover, Onslow, Pender and Sampson</td>
<td>Division Wide ADA Curb Ramp Updates</td>
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<td>C204553</td>
<td>Alex Stewart</td>
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<td>NC 211 from SR 1500 (Midway Road) to NC 87</td>
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<td>Daniel Waugh</td>
<td>Pender</td>
<td>NC 417 (Hampstead Bypass) from Southern of NC 270 to North of NC 1563</td>
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<td>C204623</td>
<td>Alex Stewart</td>
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<td>Replace Bridge 65 on NC 82 over Shingle Creek</td>
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<td>C204301</td>
<td>Alex Stewart</td>
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<td>48 on I-40E &amp; I-40 W/ NE Substructure Repairs</td>
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<td>C204629</td>
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<td>Replace Bridge 57 on NC 211 over Shingle Creek</td>
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<td>23-Sep</td>
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RESURFACING PROJECTS
APRIL TPD UPDATES WILMINGTON MPO

APRIL 2022

Brunswick County Model: The Brunswick County Model was completed in February of last year.

Brunswick County Comprehensive Transportation Plan (CTP): The Brunswick County CTP just went through Peer Review, Management Review and Steering Committee Review. The comments will be reviewed and incorporated in the following weeks. The TPD engineers are also starting to set up public involvement sessions – both in person and virtual.

Wilmington Model: The 2050 Travel Demand Model work started on 3/1/2022. The TDM is being developed for the next Wilmington MTP. The 2045 Travel Demand Model and 2045 Wilmington MPO MTP was adopted on 11/18/2020 by the Wilmington MPO Board.

Helpful Links:
Click on links below to learn more:
· NCDOT home page—ncdot.gov
· Real-Time Traffic—DriveNC.gov | North Carolina Traffic & Travel Information
· Report a pothole—NCDOT Contact Us Form
· NCDOT: State Transportation Improvement Program—ncdot.gov/sti
· Interactive Bicycle Routes Map—https://www.ncdot.gov/bikeped/ncbikeways/default.aspx
· Links to all traffic count data information—Traffic Survey Group (ncdot.gov)
· NCDOT Interactive Traffic Volume Map—Interactive Traffic Volume map (ncdot.gov)
· Traffic Safety Data & Engineering—NCDOT: Traffic Safety Data & Engineering

NCDOT Statewide Plans:
To learn more, click on the following links:
· NC Moves 2050 Plan (or go to ncdot.gov/ncmoves)
- NCDOT Strategic Transportation Corridors (or go to ncdot.gov and search: Strategic Transportation Corridors)
- NCDOT Comprehensive State Rail Plan (25-Year Vision) (or go to ncdot.gov and search: rail plan)
- NC Statewide Multimodal Freight Plan (2015-2040) (or go to ncdot.gov and search: public transportation plan)
- Great Trails State Plan (or go to ncdot.gov and search: Great Trails)
- Connecting North Carolinians to Opportunities (Public Transportation strategic Plan—2018) (or go to ncdot.gov and search: public transportation plan)
- NCDOT Resilience Strategy Report (2021) (or go to ncdot.gov and search: resilience strategy report)
- Statewide Pedestrian & Bicycle Plan (2013) (or go to ncdot.gov/bikeped/walkbikenc)