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**Wilmington Urban Area Metropolitan Planning Organization  
Bicycle and Pedestrian Advisory Committee  
Meeting Agenda**

**TO:** WMPO Bicycle and Pedestrian Advisory Committee Members  
**FROM:** Carolyn Caggia, Associate Transportation Planner  
**DATE:** October 3, 2024  
**SUBJECT:** October 8, 2024, Meeting

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A meeting of the WMPO Bicycle and Pedestrian Advisory Committee will take place on Tuesday, October 8, 2024, at 2pm. The meeting will be held at 929 N Front St., Wilmington, 1<sup>st</sup> Floor, Conference Room #154F with a virtual component. The meeting can be joined at the following link:

<https://us06web.zoom.us/j/83050920255>

The following is the agenda for the meeting:

**1. Call to Order**

**2. Approval of the Agenda**

**3. Public Comment Period**

**4. Approval of Minutes from August 13, 2024 Meeting**

**5. New Business**

- Letter of Support for City of Wilmington, Lions Bridge Replacement
- 35<sup>th</sup> Annual River to Sea Ride – Sponsorships discussion / Debrief of 2024 bike rides
- Model policy – E-bike update discussion
- Nominations for Chair/Vice Chair
- 2025 Work plan – request for items / initiatives

**6. Old Business**

- Model policy – Trail lighting

**7. Updates and Announcements**

- Cape Fear Cyclists I *Al Schroetel*
- WMPO September Project Updates (in packet)
- NCDOT Division 3 Updates (in packet)
- Printing / Bicycle Suitability Map update
- Bike to Work Day is Friday, October 11. Get There Greener runs Oct 1-31.
- Cape Fear Memorial Bridge replacement funding update

**8. Next Meeting**

- Tuesday, December 10, 2024, at 2 pm

**9. Adjournment**

**Attachments:**

- |  |   |
|--|---|
| • Minutes from the August 2024 BPAC Meeting  | • E-bike model ordinance, adopted by WMPO Board in 2020 |
| • WMPO September Project Updates             | • E-bike research handout                               |
| • NCDOT Division 3 September Project Updates | • Trail lighting model policy - draft                   |

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**Meeting Minutes**  
**Wilmington Urban Area Metropolitan Planning Organization**  
**Bicycle and Pedestrian Advisory Committee**  
**August 13, 2024**

**Members Present:**

Carolyn Caggia, WMPO  
Adrienne Cox, NCDOT Division 3  
Karlene Ellis-Vitalis, New Hanover County  
Adrienne Harrington, Town of Belville  
Rodney Kidd, Town of Carolina Beach  
Mo Linqvist, Town of Kure Beach  
Duncan McCabe, City of Wilmington  
Karin Mills, City of Wilmington  
Al Schroetel, Cape Fear Cyclists  
Steve Whitney, Brunswick County  
Steve Zinder (Vice Chair), UNCW

**Members Absent:**

Nick Cannon, NC Board of Transportation  
Brianna D'Itri, Wave Transit  
Katie Ryan, Town of Wrightsville Beach  
Carol Stein (Chair), Pender County

**Staff and Guests Present**

Jim Bailey  
Julian Griffiee, Town of Leland  
Beth King, WMPO  
Abby Lorenzo, WMPO  
Greer Templer, WMPO

1. **Call to Order**
  - Steve Zinder called the meeting to order at 2:01 pm.
2. **Approval of the Agenda**
  - Motion to approve was made by Al Schroetel. Motion was seconded by Karlene Ellis-Vitalis. Motion passed unanimously.
3. **Public Comment Period**
  - There were no public comments at this meeting.
4. **Approval of minutes from June 11, 2024 Meeting**

- Motion to approve was made by Rodney Kidd. Motion was seconded by Al Schroetel. Motion passed unanimously.

## 5. **New Business**

- **People for Bikes grant program** – Al Schroetel overviewed a grant program from a nonprofit organization, People for Bikes, which is funded by bike manufacturers and donations. The grant program is dedicated to putting more people on bikes, with grants of up to \$10,000 two times a year through the Industry Community Grant Program. People for Bikes also provides communities' City Ratings score. The next round of funding opens September 1, 2024.
- **Walktober and BikeWalk NC Summit** – Mo Linquist presented information about BikeWalk NC, an advocacy and education organization for bicyclists and pedestrians, which holds traffic gardens and hosts the NC Friendly Driver program. She requested that municipalities in New Hanover County send representatives to the 2024 Bike Walk NC summit. Mo Linquist also promoted Walktober which will be observed in Kure Beach in October with a proclamation to showcase the advantages of walking to communities and health.
- **Bicycle Suitability Map Update** – Carolyn Caggia and Greer Templer stated that in light of printing new maps, it was time to update the Bicycle Suitability Map for digital and print purposes and asked the committee for feedback on updates. The committee mentioned adding a QR code to link people to zoomable, more detailed online maps. Greer overviewed changes to the GIS web apps to improve web experience. The committee also mentioned that street names need better visibility and requested changes to the legend, which felt small and hard to read. BPAC and Cape Fear Cyclists were invited to email Carolyn Caggia with feedback.
- **River to Sea (Sept 7, 2024) and Brunswick Heritage Riverside Ride (Sept 28, 2024)** – Carolyn Caggia updated the committee with the status of both rides and requested 12 volunteers for each event. Karin Mills mentioned a partnership for a finish line event and a discount for riders from Port City Java. There will also be a volunteer orientation for the Brunswick Heritage Riverside Ride after the River to Sea Ride takes place.
- **2024 Get There Greener Sustainable Transportation Challenge (October 2024) / Bike to Work day (October 11, 2024)** – Carolyn Caggia explained the Get There Greener sustainable transportation challenge, and state that this year Go Coast is organizing a local Bike to Work Day on Friday, October 11, with pit stops around Wilmington for cyclists to stop at to receive water, snacks, and other goodies.

## 6. **Old Business**

- **Trail Lighting model policy** – Carolyn Caggia presented updates for the draft model trail lighting policy to the committee. The policy will be approved by the BPAC, then TCC, then WMPO Board.

## 7. **Updates**

- Wave Transit system updates will be effective beginning in January 2025
- Tour De Island will take place on Pleasure Island on Saturday, October 5.
- Mo Linquist requested that the model e-bike ordinance be added to the agenda for the October meeting for a potential update.

## 8. **Next Meeting**

- Tuesday, October 8, 2pm – 929 N Front St., 1<sup>st</sup> floor conference room #154F.

## 9. **Adjournment**

- Motion to adjourn was made by Duncan McCabe. Motion was seconded by Mo Linquist. Motion passed unanimously and the meeting adjourned at 3:22 p.m.

**WILMINGTON URBAN AREA MPO**  
**September 2024**

**CAPE FEAR NAVIGATING CHANGE**

**Project Description/Scope:** The WMPO has begun the planning process for our region's 2050 Metropolitan Transportation Plan (MTP), Cape Fear Navigating Change 2050. A long-range Metropolitan Transportation Plan for the region is federally required and must be developed, updated, and adopted by the WMPO every five years. The final plan will be used by federal, state, and local governments to guide decision-making for transportation projects in our region over the next 25 years, including which projects receive state or federal funding, the design and location of local roadways, coordinating land use and development, and identifying projects for further plans and studies. Planning activities began in April of 2023 with plan adoption expected in November of 2025.

**2050 MTP Financial Element**

WMPO staff is continuing to work with consultant Kimley-Horn on identifying cost estimates for draft projects, exploring alternative funding sources, and fiscally constraining roadway projects. The financial element entails a review process to assess alignment between submitted modal project to available funding and overall fiscal feasibility.

**Project Status and Next Steps:**

- Initial cost estimation and fiscal constraints for submitted roadway projects have been received and are currently under review by staff.
- Initial revenue forecasting for all modes have been received and are currently under review by staff
- The next steps include continued collaboration between the WMPO and Kimley-Horn to ensure comprehensive coverage of all relevant factors.
- A comprehensive update on all reviewed projects and their financial implications will be provided to the TCC and Board in Fall 2024. This update will include a ranked draft project list complete with cost estimates.

**2050 MTP TSMO Chapter**

WMPO staff began researching Transportation Systems Management and Operations (TSMO) strategies for the 2050 MTP in Summer 2024. TSMO strategies aim to optimize the performance of the existing transportation system, including to increase roadway capacity, reduce congestion, and improve safety and security.

**Project Status and Next Steps:**

- WMPO staff are conducting research on current TSMO strategies recommended by the FHWA and other transportation agencies, as well as current federal or state laws, regulations, or programs related to TSMO.
- TSMO strategies will be described within the MTP in chapter which will include a table which outlines the applicability, feasibility, cost, and impact of each.
- Next steps include concluding research and putting together text and photos/illustrations.
- A draft of the 2050 MTP which includes the TSMO chapter will be provided to the TCC and MTPC in Summer 2025.

**NCDOT IMD FEASIBILITY STUDY GRANTS**

In July 2022, the North Carolina Department of Transportation (NCDOT) was allocated \$2 million in one-time funding from the North Carolina General Assembly to establish a Paved Trails Feasibility Study

Program. The Integrated Mobility Division (IMD) was also awarded \$500,000 in State Planning and Research (SP&R) funds to support sidewalk and shared-use path feasibility studies. The purpose of the Paved Trails and Sidewalk Feasibility Studies Grant Program is to improve the pipeline of bicycle and pedestrian projects accessing state and federal funding, resulting in successful implementation of projects led by communities prioritizing multimodal infrastructure.

### **Wilmington Downtown Trail Phases 2 & 3:**

The Downtown Trail will eventually connect the River to Sea Bikeway to the future Multimodal Transportation Center, Cape Fear Community College, and the Riverwalk. In between these locations, the trail will provide a recreational facility for several communities in proximity to the downtown. The project currently consists of three phases. The first phase, from 3rd Street to Archie Blue Park, is in the preliminary engineering phase. The purpose of this study would be to assess the feasibility of constructing Phases 2 and 3. A scoping meeting with NCDOT IMD and the selected consultant, Kittelson, was held on May 2, 2023.

### **Project Status and Next Steps:**

- The first steering committee took place on October 17, 2023.
- The first public outreach sessions took place October-December 2023. Public engagement consisted of in-person events and an online survey that included an online comment map. In all, 486 survey responses were collected, 352 map comments were received, and 59 in-person conversations were conducted.
- The second steering committee meeting was held May 8, 2024.
- The second public outreach session was conducted during summer 2024. Public engagement consisted of two in-person events (listed below) and an online survey open June through July 15, 2024. 500 survey responses were received with 58 in-person conversations.
  - Frankie's Outdoor Market, 6/15/24
  - Nir Family YMCA, 6/18/24
- The final steering committee meeting is upcoming.
- Draft study report anticipated in summer 2024.

### **Gullah Geechee Heritage Trail:**

The purpose of this study would be to assess the feasibility of constructing a 10'-12' multi-use path facility in the Gullah Geechee Heritage Corridor from Phoenix Park in Navassa to Brunswick Nature Park in unincorporated Brunswick County. The Gullah Geechee Heritage Corridor is designated as a Cultural Heritage Area by U.S. Congress, presenting an opportunity to educate the public about the history of the Gullah Geechee people and highlight historical sites within Brunswick County. A scoping meeting with NCDOT IMD and the selected consultant, Kittelson, was held on May 2, 2023.

### **Project Status and Next Steps:**

- The first steering committee took place in September 2023.
- The first public outreach sessions took place during September/October 2023. There was an online survey open through the entire month of October as well. 370 surveys were completed with 120+ in-person conversations during this round of public outreach.
- The second steering committee took place on January 4, 2024.
- The second public outreach session took place in March 2024. An online survey, which received 137 responses, was available throughout March and three public meetings were held to collect input.
- The third and final steering committee meeting was held on June 12, 2024. The steering committee was provided a presentation on the draft recommended preferred alignment.
- The final study report was received on August 6, 2024.

- Presentations to the WMPO Board and four Brunswick County jurisdictions in September prior to requesting consideration by governing boards for adoption.

### **SITE DEVELOPMENT REVIEW**

**Project Descriptions/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:

#### **Site Plan Reviews:**

- New Hanover County Formal Plan Reviews: 12 reviews
- New Hanover County Informal Plan Reviews: 3 reviews
- New Hanover Concept Reviews: 0 review
- Town of Leland Concept Plan Reviews: 0 reviews
- Town of Leland Formal Reviews: 14 reviews
- Town of Leland Informal Reviews: 3 reviews
- Town of Navassa Formal Plan Reviews: 0 reviews
- Town of Navassa Informal Reviews: 0 reviews
- Town of Navassa Concept Reviews: 0 reviews
- Town of Belville Formal Reviews: 0 reviews
- Town of Carolina Beach Formal Reviews: 0 reviews
- Town of Carolina Beach Informal Reviews: 0 reviews
- Town of Carolina Beach Concept Reviews: 0 reviews
- Brunswick County Formal Plan Reviews: 0 reviews
- Brunswick County Informal Plan Reviews: 0 reviews
- Pender County Formal Reviews: 12 reviews
- Pender County Informal Reviews: 8 reviews
- Pender County Concept Reviews: 0 reviews
- City of Wilmington Formal Reviews: 48 reviews ( 6 new, 42 on-going)
- City of Wilmington Informal Reviews: 15 reviews (2 new, 13 on-going)
- City of Wilmington Concept Reviews: 0 review (0 new, 0 on-going)
- City of Wilmington Full Releases: 5

#### **TIA Reviews: 32 total active (1 new; 31 under review; 4 approved, 2 waivers)**

- New Hanover County 9 (1 new, 8 under review, 1 approved),
- City of Wilmington 10 (0 new, 7 under review, 1 approved, 2 waivers),
- Carolina Beach 1, (0 new, 1 under review, 0 approved),
- Town of Belville 0,
- Town of Leland 4 (0 new, 4 under review, 0 approved),
- Town of Navassa 0, (0 new, 0 under review, 0 approved),
- Pender County 7 (0 new, 7 under review, 2 approved) and
- Brunswick County 4 (0 new, 4 under review, 0 approved)

**BL-0040 NEW HANOVER COUNTY - Middle Sound Loop Extension/Connector Construction & Porters Neck Walmart Connector Construction**

**Project Description/Scope:** construction of bicycle/pedestrian trails along Middle Sound Loop Road from Red Cedar Road to Publix commercial lot. Also construct trails along US 17 Business (Market Street) from Mendenhall Drive to Porter's Neck Wal-Mart commercial lot.

**Project Status and Next Steps:**

- New Hanover County is submitting encroachment agreement to NCDOT for approval
- 90% construction drawings submitted in EBS
- New Hanover County is resubmitting expired categorical exclusion documentation
- New Hanover County is preparing documents for bidding
- Once all of these are complete, we will submit for approval to bid from NCDOT.
- Anticipate construction in October 2024 (9 mos. construction)

**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:**

- NCDOT ROW Certification obtained November 23, 2023
- Utility Authorization obtained January 4, 2024
- Duke Energy Utility Relocations - In Progress
- Construction Authorization requested August 20, 2024
- Advertise for Bid – Late Summer/ Early Fall 2024
- Begin Construction – Early 2025
- Construction Complete – Early 2026

**U-5534G –CITY OF WILMINGTON- HOOKER ROAD MULTI-USE PATH**

**Project Descriptions/Scope:** The project consists 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:**

- NCDOT ROW Certification obtained November 23, 2023
- Construction Authorization requested August 20, 2024
- Advertise for Bid – Late Summer/ Early Fall 2024
- Begin Construction – Early 2025
- Construction Complete – Early 2026

**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:**

- NCDOT ROW Certification obtained November 23, 2023
- Utility Authorization obtained January 4, 2024
- Duke Energy Utility Relocations - In Progress
- Construction Authorization requested August 20, 2024

- Advertise for Bid – Late Summer/ Early Fall 2024
- Begin Construction – Early 2025
- Construction Complete – Early 2026

#### **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:**

- The project was awarded to the low bidder; Morgan Trucking and General Construction Inc.
- A Pre-Con Meeting was held on February 28, 2024.
- Notice To Proceed (NTP) Date was March 11, 2024.
- Substantial completion date is 210 days from NTP, with a Final completion Date of 365 days from NTP.
- All concrete and drainage work completed.
- Guardrail and Handrails installed.
- Signal work and Pavement Markings are scheduled to take place the week of August 19, 2024
- Pavement marking completed.
- Signal Work was scheduled with support from Sheriffs Department, but they were not able to supply required support at this time
- Revised schedule for Signal Work is 09/11/2024.
- Once this portion is completed, we will perform the punch walk for this project.

#### **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:**

- Final plans & contract documents are being prepared for NCDOT review & approval
- CE Document has been approved
- Right-of-way authorization approved
- Town has obtained all three (3) of three (3) easements needed to construct path. Easements are in the process of being recorded.
- DOT encroachment application is being submitted
- All other documents have been provided to NCDOT Division 3 for right of way certification
- Request for construction funds authorization forthcoming

#### **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 and execution is complete.
- 100% plans completed.
- Project received City Council and WMPO Board approval to request additional funding from NCDOT. A formal Change Request has been made to NCDOT.



- Project has received a 2-year extension to April 30, 2027, from NCDOT to allow additional funding requests, bidding, construction, and closeout.
- Expected project bid date is April 2025.

#### **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
- Agreement executed with NCDOT on August 18, 2021
- Design discussions held with Kimley-Horn & Associates (KHA) on August 31, 2021
- Public meeting held on March 24, 2022, to present three (3) design alternatives for bike path on St. Joseph
- KHA presented to Town's Bike & Pedestrian Committee summary of comments on April 18, 2022
- KHA presented at Town Council regularly scheduled meeting on May 10, 2022
- Town Council approved Option 3 on May 10, 2022, as presented by KHA
- On May 25, 2022, project managers submit RFLOI to NCDOT prequalified engineering firms with a response deadline of June 8, 2022
- Responses to RFLOI reviewed by WMPO/Town of Carolina Beach
- On July 12, 2022, the Town of Carolina Beach selected KHA as the design firm
- On September 22, 2022, the Town received a Letter of Agreement from KHA for Scope of Services and Project Engineer Design Estimate.
- The Town has uploaded documentation via EBS portal for review and approval.
- The Town has obtained NCDOT approval in January 2023
- Project meeting with consultant held March 2023
- Project survey completed in July 2023
- Received 30% plans from Kimley Horn and submitted via EBS.
- FY24 grant awarded for estimated construction costs
- April 17 supplemental agreement has been fully executed.
- The Town, with Kimley Horn, held a public meeting April 23, 2024.
- Received approval for change request to add ROW as eligible expense.
- TOCB/NCDOT and consultant met on May 30, 2024, to discuss the status of the project
- Received 75% plans from Kimley Horn, submitted via EBS.
- Received supplemental agreement for ROW/TCE from Kimly Horn, submitted unexecuted copy via EBS.
- July 11, 2024, had a meeting with Kimley Horn to discuss Town comments on the 75% plans.
- Returned the signed supplemental agreement for acquisition of temporary construction easements to Kimley Horn and submitted via EBS.

#### **BL-0118 North College Road Pedestrian Improvements**

**Project Description/Scope:** Project consists of the construction of a ten-foot wide, two-plus mile MUP along N. College from Gordon Road to Northchase Parkway West. In addition, it includes a sidewalk on the east side of N. College from Sirius Drive to Murrayville Road and New Village Way to the signalized intersection at Danny Pence Drive.

##### **Project Status and Next Steps:**

- Right of way acquisition underway- 13/15 (86%) properties signed and completed (all 15 property owners have been contacted)

- 65% plans submitted to NCDOT for review and comment
- Level A SUE completed - identified potential utility conflicts (I think those have been ratified and a fix has been formulated)
- Design completion anticipated by December 2024

#### **HL-0109 3<sup>rd</sup> Street/Ann Street Traffic Signal**

**Project Description/Scope:** Project consists of the installation of a traffic signal at the intersection of 3<sup>rd</sup> Street and Ann Street in downtown Wilmington.

##### **Project Status and Next Steps:**

- Private Engineering Firm is currently working on the signal designs
- Tentatively planning to let this and 3<sup>rd</sup>/Orange projects together next spring

#### **HL-0110 3<sup>rd</sup> Street/Orange Street Traffic Signal**

**Project Description/Scope:** Project consists of the installation of a traffic signal at the intersection of 3<sup>rd</sup> Street and Orange Street in downtown Wilmington.

##### **Project Status and Next Steps:**

- Private Engineering Firm is currently working on the signal designs
- Tentatively planning to let this and 3<sup>rd</sup>/Ann together next spring

#### **TASA-DA/CRRSAA/STIP**

##### **BL-0045 – DOWNTOWN GREENWAY PH. 1 DESIGN**

**Project Description/Scope:** design and engineering for an approximately 2.2 mile long, 10' to 12' in width portion of the trail beginning at 3rd street in the Downtown within the NCDOT owned rail corridor to McRae St (defined in the Wilmington Rail Trail Master Plan); abutting the Dorothy B. Johnson Elementary School western parcel line; traversing east along CSX right-of-way to Archie Blue Park; and continuing north through Archie Blue Park, parallel to the creek and terminating at the Love Grove Bridge multi-use path facility.

##### **Project Status and Next Steps:**

- Agreement executed by NCDOT on April 20, 2022
- Award of contract to City on-call engineering consultant (WSP) by City Council on September 6, 2022.
- Notice to proceed issued on October 2, 2022.
- Supplemental scope of services for project management activities, NCDOT and CSX rail coordination, and additional survey tasks submitted on April 13, 2023, with NTP on additional services issued on June 12, 2023.
- Agreement reached with CSX regarding the trail crossing design and safety measures at King Street. Coordination for location of trail outside of King Street right-of-way continues between the City and CSX.
- NCDOT Rail Division contracted with WSP and has developed conceptual track and trail alignment within the corridor between 3rd Street and McRae Street. Verbal concurrence with this alignment has been given by NCDOT Rail Division.
- Draft MOU between NCDOT Rail and City of Wilmington pertaining to the future trail section within Wilmington Lead Corridor has been drafted by NCDOT, reviewed by City Staff, and sent to NCDOT for final review.

- City staff and WSP to provided presentations to both the Deputy City Manager and Design Review Committee in June on the City's coordination efforts during the past 18 months, project next steps, and remaining obstacles.
- A public input opportunity began in August and will end in mid September. The public is invited to review updated information about the design's development on the projects website and provide comments through a brief input survey. WMPO, City, and WSP staff attended a Northside Community dinner on 7/25 to provide project updates and hold discussions with citizens regarding the project. A second in-person engagement opportunity was held on August 15 from 5:30-7:30p at Archie Blue Park.

#### **BL – 0059 TOWN OF KURE BEACH - FORT FISHER BOULEVARD/K AVENUE AND NORTH 3RD STREET PEDESTRIAN SAFETY IMPROVEMENTS**

**Project Description/Scope:** This project entails intersection improvements at Ft. Fisher Boulevard and K Avenue to include high visibility crosswalks, ADA ramps, and pedestrian signals; and filling gaps in the sidewalk network on Ft. Fisher Boulevard and N. 3rd Street that will create a pedestrian network connected to the Ft. Fisher Boulevard and K Avenue intersection.

##### **Project Status and Next Steps:**

- Project kick-off meeting in March 2023
- Contract approved by Kure Beach Town Council in June 2023
- Meeting with NCDOT, WMPO, WithersRavenel, and Town of Kure Beach was held on August 8, 2023
- Survey started in September 2023
- 75% plans are currently under review
- Next steps: 90% plans and the NCDOT encroachment agreement

#### **BL-0074 – TOWN OF LELAND- US 17 Pedestrian crossing at Olde Waterford Way/Ploof Road**

**Project Descriptions/Scope:** Installation of signalized pedestrian crossing at the intersection of US 17/Olde Waterford Way/Ploof Road in Leland, NC

##### **Project Status and Next Steps:**

- NCDOT Agreement executed Aug 24, 2023
- PE funds authorized September 14, 2023
- Exult Engineering Contract fully executed Aug 19, 2024
- Survey and Design anticipated to commence September 2024
- Project Completion September 14, 2028

#### **EB-5600 – S. 17TH STREET MULTI-USE PATH**

**Project Description/Scope:** This project consists of the construction of a 10' multiuse path along South 17th Street from Harbour Drive to Shipyard Boulevard and the installation of crosswalks and pedestrian signal heads at the intersection of South 17th Street and Shipyard Boulevard.

##### **Project Status and Next Steps:**

- Agreement executed with NCDOT on May 24, 2022
- PE Authorization obtained on January 20, 2023
- Design kick-off meeting between City and RS&H staff held on January 31, 2023
- 25% Plans approved by NCDOT on February 12, 2024
- Redline Drainage Plans approved by NCDOT on April 22, 2024
- Environmental Document approved on May 7, 2024

- The design has been paused and the city will pursue additional funds through the MPO's DA program

#### **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:**

- 100% plans approved by NCDOT
- Contract proposal (with cost estimate) approved April 11, 2022
- CEI contract award in October 2022
- Construction authorization February 2023
- CE Consultation approved by NCDOT (revised b/c Tricolored Bat is on the potentially endangered species list. CE Consultation signed by both Withers Ravenel and NCDOT).
- NCDOT approved bid documents.
- Bid solicitation in September 2023
- Bid opening in October 2023
- Re-bid and opening in November 2023
- Request additional funds for construction January 2024
- Pre-construction meeting April 2024
- Minor re-design for sewer main
- Next steps: Construction start in October

#### **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:**

- 100% plans approved by NCDOT
- Contract proposal (with cost estimate) approved April 11, 2022
- CEI contract award in October 2022
- Construction authorization February 2023
- CE Consultation approved by NCDOT (revised b/c Tricolored Bat is on the potentially endangered species list. CE Consultation signed by both Withers Ravenel and NCDOT).
- NCDOT approved bid documents.
- Bid solicitation in September 2023
- Bid opening in October 2023
- Re-bid and opening in November 2023
- Request additional funds for construction January 2024
- Pre-construction meeting April 2024
- Minor re-design for sewer main
- Next steps: Construction start in October

#### **EB-6027 – NEW HANOVER COUNTY -MIDDLE SOUND GREENWAY**

**Project Description:** Design only of the Middle Sound Greenway connection to Publix

##### **Project Status and Next Steps:**

- New Hanover County is submitting encroachment agreement to NCDOT for approval

- New Hanover County is resubmitting expired categorical exclusion documentation
- 90% construction drawings submitted in EBS
- New Hanover County is preparing documents for bidding
- Once all of these are complete, we will submit for approval to bid from NCDOT.
- Anticipate construction in October 2024 (9 mos. construction)

#### **EB-6028 —CITY OF WILMINGTON- 21<sup>ST</sup> 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:**

- The project was awarded to the low bidder; Morgan Trucking and General Construction Inc.
- A Pre-Con Meeting was held on 02/28/2024.
- Notice To Proceed (NTP) Date is 03/11/2024.
- Substantial completion date is 210 days from NTP, with a Final completion Date of 365 days from NTP.
- Material Submittals have been entered into the NC EBS Portal for approval.
- Design work on the signal arm mast has begun.
- Soils Testing and Design Work completed by contractor and submitted into the NCDOT EBS System for Approval.
- Supplemental Agreement to extend the timeline for EB-6028 has been submitted to NCDOT and is in the process of being signed off on by the City of Wilmington, NC.
- NCDOT approved the Mast Arm design and it is in the fabrication phase.
- NCDOT approved the Supplemental Agreement for additional time.
- Curb Ramps have been installed.
- Additional curb & gutter installed to replace bad section.
- Mast Arm Assembly is scheduled to be delivered by November 7, 2024.
- Once foundation plan is submitted and approved by NCDOT, it will be installed accordingly.

#### **TC – 0021 WAVE PASSENGER AMENITIES AND UPGRADES**

**Project Description/Scope:** Cape Fear Public Transportation Authority (WAVE transit) currently has a total of 440 bus stops, 24 benches and 27 shelters. Shelters only represent 6% of our passenger amenities, while other NC agencies average 14%. To meet the peer average for statewide systems, CFPTA needs to install an additional twenty-six (26) benches and twenty (20) shelters. This project will support the installation of a total of nine (9) bus stop benches and ten (10) bus stop shelters along eight (8) transit routes located within the City of Wilmington. The project includes engineering and design, construction of concrete pads, ADA ramps, ADA access, and purchase and installation of durable bench and/or shelter, waste receptacle, and solar lighting, where applicable.

##### **Project Status and Next Steps:**

- The project was awarded funds in November 2021
- NC Board of Transportation approved the flex request in January 2023
- Flex request confirmed end of April 2023
- Letters from NCDOT transmitted May 23, 2023
- Contract awarded to Tolar
- Amenities will be deployed based on outcome of Short-Range planning review

#### **TC-0027 WAVE PASSENGER AMENITIES AND UPGRADES**

**Project Description:** Passenger Facilities and amenities replacement, security, and improvement: acquire, construct, or replace structures, equipment, and systems that provide passenger

facilities and amenities for fixed route bus service in the Wilmington, NC UZA. Projects include acquisition and installation of bus shelters, lighting and landing platforms along existing routes; evaluation of a new customer service enclosure at Forden Transfer Station; and extension of fencing at Padgett Transfer Station.

**Project Status and Next Steps:**

- The fencing at Padgett was completed in May 2023 (132 linear feet at Padgett for \$3,565.00)
- Proposals were received as part of an Invitation to Bid for the shelters and benches in Spring 2023. Tolar was selected.
- A RFQ was issued in March for Forden Station designs to improve Customer Service Representative safety in the facility. A firm was selected to design those improvements in April.
  - Designs finalized in July and an Invitation to Bid was released August 30, 2024 with a deadline for submittals of September 23, 2024.
  - A notice to proceed for construction is expected by October 30, 2024, with construction expected to take 60 days.
- Amenities will be deployed based on outcome of Short-Range Transit Plan.

**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. Go Coast Committee - The next regular Go Coast committee meeting will occur in-person on August 15, 2024, at 3 PM.
2. Bicycle Helmet Initiative – In April, the WMPO was awarded 100 children’s bicycle helmets through NCDOT’s Bicycle Helmet Initiative for distribution to children from low-income families with bicycle safety education. Staff is participating in outreach events throughout the year to distribute helmets to children and educate families on bicycle safety. So far 58 helmets have been distributed, with more distribution opportunities planned for August.
3. Short Range TDM plan update – WMPO staff have begun work to update the short-range TDM plan, *Cape Fear Change in Motion 2020*. A public engagement period to inform this update is scheduled for September through November 2024. Steering committee meetings are ongoing with the update scheduled for completion by November 2025.
4. Annual WMPO-organized bike rides – Planning has begun for the 34<sup>th</sup> Annual River to Sea Bike Ride and the 4<sup>th</sup> Annual Brunswick Heritage Riverside Ride. The rides will take place September 7, 2024, and September 28, 2024, respectively.
5. Get There Greener – Get There Greener is Go Coast’s sustainable transportation challenge which occurs annually in October. Participants log their miles traveled by alternative transportation for a chance to win prizes donated by local businesses. In August, WMPO staff will begin reaching

out to local businesses to participate in Get There Greener with a donation of gift cards/items of \$25-50 value. Additionally, staff is planning for a fall Bike to Work Day on Friday, October 11. Organizations/businesses will be encouraged to set up "pit stops" for bicyclists in the morning or evening commute, providing water, coffee, snacks, etc. to those who bike by, in addition to any swag/info they may choose to hand out.

## WMPO SEPTEMBER PROJECTS IN DEVELOPMENT

Project Manager	Contract Type	TIP	Description	County	*SAP Let Date (year.month.date)
Brian Harding	DDRL	U-6202	SR 2048 (GORDON ROAD) FROM US 17 (MARKET STREET) TO I-40. WIDEN ROADWAY.	NEW HANOVER	2024.11.19
Brian Harding	LAP	HL-0109	SOUTH 3RD STREET INSTALLATION OF TRAFFIC SIGNALS WITH PEDESTRIAN SIGNAL HEADS AT INTERSECTION OF SOUTH 3RD STREET AND ANN STREET IN WILMINGTON.	NEW HANOVER	2025.05.15
Trace Howell	DDRL	R-3300A	US 17 HAMPSTEAD BYPASS FROM US 17 BYPASS SOUTH OF HAMPSTEAD TO NC 210	NEW HANOVER, PENDER	2025.07.15
Derek Pielech	DPOC	BP3-R004	REPLACE BRUNSWICK BRIDGE 181 OVER STURGEON CREEK ON SR 1437 (OLD FAYETTEVILLE ROAD) (PREVIOUSLY 17BP.3.R.84).	BRUNSWICK	<b>2025.09.18*</b>
Brian Harding	LAP	HL-0110	SOUTH 3RD STREET INSTALLATION OF TRAFFIC SIGNALS WITH PEDESTRIAN SIGNAL HEADS AT INTERSECTION OF SOUTH 3RD STREET AND ORANGE STREET IN WILMINGTON.	NEW HANOVER	2025.09.30
Derek Pielech	LET	15BPR.142	BRIDGE PRESERVATION. BRIDGE 090096 OVER US 74 & US 76 ON US 17; BRIDGE 090198 OVER ICW & NC 179 ON SR 1172.	BRUNSWICK	2026.09.15
Trace Howell	DDRL	U-5710	US 74 (EASTWOOD ROAD) SR 1409 (MILITARY CUTOFF ROAD) INTERSECTION - CONVERT AT-GRADE INTERSECTION TO AN INTERCHANGE.	NEW HANOVER	2026.09.15
Brian Harding	DDRL	U-5734	US 421 (SOUTH FRONT ST.) FROM US 17 BUSINESS/US 76/US 421 (CAPE FEAR MEMORIAL BRIDGE) TO US 421 (BURNETT BOULEVARD) WIDEN TO MULTI-LANES.	NEW HANOVER	2027.06.15
Brandon Powers	DPOC	U-5954	NC 133 (CASTLE HAYNE ROAD) AT NORTH 23RD STREET. CONSTRUCT A ROUNDABOUT.	NEW HANOVER	2027.06.15
Derek Pielech	DPOC	BP3-R012 17BP.3.R.93	BRIDGE 208 OVER STURGEON CREEK ON SR 1472 (VILLAGE ROAD).	BRUNSWICK	2027.07.03
David Stutts	DPOC	BR-0008	BRIDGE PRESERVATION. BRIDGE 7 ON US 17 OVER US 76. THIS IS PART OF THE INTERCHANGE WEST OF THE CFMB.	BRUNSWICK	2027.09.21
Derek Pielech	DPOC	B-5653	PENDER BRIDGE 14 ON NC 133 OVER TURKEY CREEK.	PENDER	2028.01.20
Derek Pielech	DPOC	HB-0040	REPLACE BRIDGE 21 OVER BANKS CHANNEL ON US 76 (CAUSWAY DRIVE); REPLACE BRIDGE 22 OVER LEES CUT ON US 74 (W SALISBURY STREET); AND REPLACE BRIDGE 24 OVER BANKS CHANNEL ON US 74 (W SALISBURY STREET) IN WRIGHTSVILLE BEACH.	NEW HANOVER	2028.03.21
Trace Howell	DDRL	U-5792	US 74 (MARTIN LUTHER KING JR. PARKWAY) AT US 117/NC 132 (COLLEGE ROAD). CONVERT AT-GRADE INTERSECTION TO INTERCHANGE.	NEW HANOVER	2028.06.20
Trace Howell	DDRL	U-3338C	SR 1175 (KERR AVENUE) INTERCHANGE AT US 74 (MARTIN LUTHER KING JR PARKWAY).	NEW HANOVER	2028.06.20



### WMPO SEPTEMBER PROJECTS IN DEVELOPMENT

Project Manager	Contract Type	TIP	Description	County	*SAP Let Date (year.month.date)
Trace Howell	DDRL	U-5790	US 421 (CAROLINA BEACH ROAD) FROM NC 132 (SOUTH COLLEGE ROAD) TO SANDERS ROAD IN WILMINGTON. WIDEN EXISTING ROADWAY AND CONTRUCT FLYOVERS AT US 421 AND NC 132. INCLUDES U-5859.	NEW HANOVER	2029.03.20
Brian Harding	DDRL	U-5731	US 74 AT US 17/US 421, CONSTRUCT A FLY-OVER AND FREE FLOW RAMP AT INTERCHANGE.	NEW HANOVER	2029.06.19
Brian Harding	DPOC	U-6128	US 76 (OLEANDER DRIVE) NEW HANOVER COUNTY AT GREENVILLE LOOP ROAD AND GREENVILLE AVENUE. UPGRADE INTERSECTION.	NEW HANOVER	2029.06.21
Brian Harding	DDRL	U-5729	US 421 (CAROLINA BEACH ROAD) FROM US 421 (BURNETT AVENUE) TO US 117 (SHIPYARD BOULEVARD) IN WILMINGTON UPGRADE ROADWAY.	NEW HANOVER	2029.07.17
Zach Howard	DDRL	U-4902C	US 17 BUSINESS (MARKET STREET) FROM NORTH OF US 117/NC 132 (COLLEGE ROAD) TO STATION ROAD. CONVERT AT-GRADE INTERSECTION TO INTERCHANGE.	NEW HANOVER	2029.08.21
Trace Howell	DDRL	U-6199	VARIOUS, WILMINGTON CITYWIDE SIGNAL SYSTEM.	NEW HANOVER	2030.01.15
Trace Howell	DPOC	U-6201	SR 1175 (KERR AVENUE) FROM SR 1411 (WRIGHTSVILLE AVENUE) TO US 76 (OLEANDER DRIVE). CONSTRUCT ROADWAY ON NEW LOCATION.	NEW HANOVER	2030.01.17
Trace Howell	DDRL	U-4434	WILMINGTON, INDEPENDENCE BLVD EXT FROM RANDALL PARKWAY TO MARTIN LUTHER KING, JR. PARKWAY.	NEW HANOVER	2030.12.17
Trace Howell	DDRL	U-5732	US 17 FROM SR 1582 (WASHINGTON ACRES ROAD) TO VISTA LANE. ACCESS MANAGEMENT.	PENDER	2031.01.21*
Trace Howell	DDRL	U-5702A	NC 132 (COLLEGE ROAD) FROM SR 1272 (NEW CENTRE DRIVE) TO US 117 (SHIPYARD BOULEVARD).	NEW HANOVER	2031.02.18
Trace Howell	DDRL	U-5704	NC 132 (COLLEGE ROAD) AT US 76 (OLEANDER DRIVE).	NEW HANOVER	2031.03.18
Trace Howell	DDRL	U-5881	US 117 /NC 132 (COLLEGE ROAD) FROM SOUTH OF SR 1272 (NEW CENTRE DRIVE) TO US 17 BUSINESS (MARKET STREET). UPGRADE ROADWAY.	NEW HANOVER	2031.05.20
Zach Howard	DDRL	U-4902B	US 17 BUSINESS (MARKET STREET) FROM THE CSX RAILROAD TO CINEMA DRIVE AND FROM JACKSONVILLE STREET TO NORTH OF US 117/NC 132 (COLLEGE ROAD).	NEW HANOVER	FY
Trace Howell	DDRL	U-5702B	NC 132 (COLLEGE ROAD) FROM US 117 (SHIPYARD BOULEVARD) TO US 421 (CAROLINA BEACH ROAD) ACCESS MANAGEMENT AND TRAVEL TIME IMPROVEMENTS.	NEW HANOVER	FY

### WMPO SEPTEMBER PROJECTS IN DEVELOPMENT

Project Manager	Contract Type	TIP	Description	County	*SAP Let Date (year.month.date)
Brian Harding	DDRL	U-5863	NC 133 (CASTLE HAYNE ROAD) FROM I-140 / US 17, WILMINGTON BYPASS TO SR 1310 (DIVISION DRIVE) WIDEN TO MULTI LANES.	NEW HANOVER	FY

\*Dates are subject to change.

**Update provided: 09/03/2024**

**PO: WMPO**

**Contact: Michelle Howes, [mnhowes@ncdot.gov](mailto:mnhowes@ncdot.gov), 910.341.2001**

## WMPO SEPTEMBER PROJECTS UNDER CONSTRUCTION

Contract Number	Resident Eng	TIP/WBS /Program	County	Description	*Estimated Completion (year.month.date)	Percent Complete
<b>C204331</b>	Joshua Pratt		New Hanover	BANKS CHANNEL BRIDGE PRESERVATION.	2024.06.28	84.24%
<b>DC00439</b>	Joshua Pratt	U-5914	Brunswick	NC 133 IN BELVILLE FROM SR 1551 (BLACKWELL ROAD) TO SR 1554 (OLD RIVER ROAD).	2024.07.06	88.03%
<b>C204747</b>	Joshua Pratt	U-5710A	New Hanover	DRYSDALE DRIVE EXTENSION FROM MILITARY CUTOFF ROAD AT DRYSDALE TO US 74.	2025.03.20	72.22%
<b>C204319</b>	Joshua Pratt	U-4902D	New Hanover	SUPERSTREET MEDIAN ON MARKET STREET (US 17 BUS) FROM MARSH OAKS DRIVE TO LENDIRE DRIVE.	2024.09.28	72.40%
<b>C204553</b>	Daniel Waugh	R-3300B	Pender	NC 417 (HAMPSTEAD BYPASS) FROM SOUTH OF NC 210 TO NORTH OF SR 1563 (SLOOP POINT ROAD).	2027.12.14	47.30%

\*Dates are subject to change.

WMPO SEPTEMBER RESURFACING PROJECTS					
Contract Number	Contract Year	County	Routes	*Estimated Completion (year.month.date)	Percent Complete
C204720	2024	PENDER	I-40 FROM WEST OF US-117 (MM-388) TO NC-210 (MM-408)	2024.06.02	88.31%
DC00445	2024	BRUNSWICK	VAROUS ROUTES	2024.10.01	90.20%
DC00437	2024	NEW HANOVER	RESURFACING VARIOUS ROUTES	2025.07.16	44.48%
C204833	2024	NEW HANOVER, PENDER	I-40 RESURFACING FROM MM-420 TO MM-408 AT NC-210 (I-6039)	2025.09.15	32.21%
DC00431	2024	BRUNSWICK	NC 130 & VARIOUS ROUTES	2024.05.31	52.66%
C204866	2024	BRUNSWICK	I-140 RESURFACING FROM US-17 TO NORTH OF US-74 (I-6036)	2025.06.15	0.00%
DC00448	2024	New Hanover	US 76 AND VARIOUS ROUTES. PEDESTRIAN IMPROVEMENTS AT WB (BL-0075)	2025.05.09	0.00%

Go!NC Portal for public information: [HMIP](https://ncdot.maps.arcgis.com/apps/mapviewer/index.html?webmap=441c2ce81ebf42faa77f3e47f5e6a97e) (Highway Maintenance Improvement Program) GIS maps  
<https://ncdot.maps.arcgis.com/apps/mapviewer/index.html?webmap=441c2ce81ebf42faa77f3e47f5e6a97e>

\*Dates are subject to change.

**Update provided:**

**09/03/2024**

**PO: WMPO**

**Contact: Michelle Howes, [mnhowes@ncdot.gov](mailto:mnhowes@ncdot.gov), 910.341.2001**

## **WMPO Bicycle and Pedestrian Advisory Committee Model Electric Bicycle Ordinance**

**The purpose of this model ordinance is to provide clarity on how electric bicycles may be regulated in any of the WMPO Member Jurisdictions. This document provides guidelines on how e-bikes must be equipped and operated in order to protect the safety of e-bike operators, the riders of traditional bicycles, and pedestrians.**

### **A. Applicability**

- i. The provisions of this section shall apply to all public land and right of way.
- ii. It is at the discretion of the member jurisdiction to review and determine what public parks and gardens shall permit Classes 1 and 2 Electric Bicycles to be ridden on paths and trails.

### **B. Definitions**

- i. *Electric bicycle or electric-assist bicycle*: a bicycle that uses an electric component to augment human power. The Consumer Product Safety Act (H.R. 727) defines a “low speed electric bicycle “ as “a two or three wheeled vehicle with fully operable pedals and an electric motor of less than 750 watts (1 h.p.), whose maximum speed on a paved level surface, when powered solely by such a motor while ridden by an operator who weighs 170 pounds, is less than 20 mph.” The styles of e-bikes vary and can be classified in three ways.
- ii. *Class 1 Electric Bicycle*: a bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the bicycle reaches a speed of 20 miles per hour or greater.
- iii. *Class 2 Electric Bicycle*: a bicycle that is equipped with a motor that may be used exclusively to propel the bicycle, and that is not capable of providing assistance when the bicycle reaches speeds of 20 miles per hour or greater.
- iv. *Class 3 Electric Bicycle*: a bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the bicycle reaches a speed of 28 miles per hour or greater, and is equipped with a speedometer.

For all classes, the maximum power output is 750 watts. Manufacturers and distributors of electric bicycles are required to apply a class identification label to each electric bicycle.

### **C. Regulations pertaining to riding electric bicycles on public facilities**

- i. The top priority of these regulations is safety. Class 1 and 2 bicycles are permitted to travel anywhere traditional bikes are permitted, as maximum assisted speeds of these vehicles is similar to the speeds traveled by traditional bicycles. Class 3 electric bicycles may be

ridden on streets and roadways where traditional bicycles are permitted, including bicycle lanes, but are restricted from slower speed areas such as multiuse paths and sidewalks.

- ii. Electric bicycles that are in class 1 and 2 are permitted to be ridden on designated off-road bicycle routes, designated park trails, multiuse paths and greenways, as well as the public roadway.
- iii. Electric bicycles in class 3 are not permitted on any off-road facility including unpaved park trails, sidewalks and multiuse paths. Class 3 electric bicycles are only permitted to be ridden on the public roadway, excluding fully controlled access highways.
- iv. Because of an electric bicycle's ability to reach speeds of 20 miles per hour with little to no pedal effort, every person operating any form of electric bicycle shall wear a helmet or hard-shell head cover secured to the head by a strap or retention device that complies with Federal Motor Vehicle Safety Standard 2018. The failure to wear a helmet shall be considered an infraction and is subject to a penalty of twenty-five dollars and fifty cents (\$25.50) plus the following court costs. This figure is derived from Chapter 20-140.4 of the North Carolina General Statutes pertaining to the operation of mopeds.
- v. Every person operating any form of electric bicycle on the public right of way must follow all bicycling traffic laws provided in Chapter 20 of the North Carolina General Statutes.

# E-bike legislation in North Carolina

## NC General Statutes

- Currently, “e-bike” is not a defined term within the General Statutes
  - An “electric assisted bicycle” is defined in in G.S. 20-4.01 as: A bicycle with two or three wheels that is equipped with a seat or saddle for use by the rider, **fully operable pedals** for human propulsion, and an electric motor of no more than 750 watts, whose maximum speed on a level surface when **powered solely by such a motor is no greater than 20 miles per hour.**
  - An e-bike which does not fit the above definition may fit the definition of another vehicle category: motorcycles, motor-driven bicycles, or mopeds.
- Statutes do not address e-bike use, age restrictions, or area restrictions.

## E-bike classes

Other states and some municipalities have used the following definitions for classes of e-bikes.

- “Class 1” - An electric bicycle with a motor that assists when pedaling only, until a maximum speed of 20 mph.
- “Class 2” - The motor on the e-bike may be used to propel the bicycle without pedaling, until a maximum speed of 20 mph.
  - This aligns with NCGS’s definition of an “electric assisted bicycle” - § 20-4.01(7a).
- “Class 3” - The motor assists when pedaling only, until a maximum speed of 28 mph.

## Current WMPO E-bike model ordinance

- Developed by WMPO Bicycle and Pedestrian Advisory Committee (BPAC) and adopted by WMPO Board in 2020. This model ordinance is on the agenda for the October 8, 2024, BPAC meeting to discuss an update.
- Model ordinance is attached.

## E-bike ordinances across NC municipalities

- City of Raleigh
  - Includes in their definition of bicycles: bicycles with “helper motors rated less than one (1) brake horsepower which produces an ordinary pedaling speed up to a maximum of twenty (20) miles per hour”
  - Nonmotorized vehicles may use greenways and must yield to pedestrians. Speed limit of 10 miles per hour on greenways.
- City of Charlotte
  - Nonmotorized bicycles and electric assisted bicycles operated at a speed of no more than 15 miles per hour may be operated on sidewalks except for in a specific downtown area.
- City of Brevard
  - Defines e-bikes in the following way:
    - E-bike - class I and III: Electric assisted bicycles, with no throttle and no self-propulsion, which are not categorized as a motor vehicle as defined in this chapter.
    - E-bike - class II: Throttle assisted bicycles, characterized by self-propulsion, which are considered motor vehicles as defined in this chapter.
  - Speed limit on multiuse paths is 15 miles per hour.
  - Class 2 e-bikes are not allowed on multiuse paths. No e-bikes are allowed on specific Bracken Preserve trails.
- North Carolina State Forests
  - Pedal assistance must be accompanied by manual pedaling on trails designated for bicycle use. Complete motorized propulsion of e-bikes without manual pedaling may only be used on park roads / where motor vehicles are allowed.



## **Trail Lighting Model Policy**

### **Wilmington Urban Area Metropolitan Planning Organization (WMPO) Bicycle and Pedestrian Advisory Committee (BPAC)**

#### **PURPOSE**

This model policy was developed by the Wilmington Urban Area Metropolitan Planning Organization's Bicycle and Pedestrian Advisory Committee (WMPO BPAC). The WMPO BPAC was created to advise the WMPO Board on issues regarding bicycle and pedestrian programs, projects, policies, and safety; the committee also assumes the roles of: promoting the safe use of bicycling and walking for transportation and recreation, providing recommendations on policies and plans for the development of bicycle and pedestrian facilities in the WMPO's member jurisdictions, and contributing to the development of the WMPO's Metropolitan Transportation Plan (MTP).

This model policy is intended to provide a guide for the WMPO's member jurisdictions to determine when lighting should be considered for installation on new and existing trail facilities.

Trail lighting should enhance trail user safety, security, comfort, and experience while considering community-specific design goals such as: maintaining aesthetic and historic characteristics of the trail's location, usage of energy-efficient and/or easy-to-maintain lighting technologies, aiding emergency response, and minimizing adverse impacts on surrounding ecosystems and communities.

#### **POLICY**

##### *Definitions*

Trail facilities are defined as off-road paths which are accessible to bicyclists, pedestrians, and other non-motorized users. Terms such as "greenway" or "multiuse path" are synonymous.

##### *Location Considerations*

Lighting for trail facilities should be analyzed on a case-by-case basis, but at a minimum considered at the following trail locations:

- Trailheads
- Inside tunnels and beneath overpasses

- Bridge entrances and exits
- Trail intersections and intersections with roadways
- Crosswalks
- Along streets
- Public gathering spaces and restroom facilities
- On signage
- Trails highly used by commuters where night usage is expected
- Locations where nighttime security of the user could be impacted

Lighting may not be necessary in areas where lighting is already adequate, for example in neighborhoods or residential areas. Consideration of maintenance, labor, and cost commitment associated with lighting should also be made.

### *Lighting Characteristics*

Lighting on trail facilities at a minimum shall conform with the following standards:

- American Association of State Highway and Transportation Officials (AASHTO) requirements for lighting shared-use paths found in the Guide for the Development of Bicycle Facilities
- Local lighting design standards and specifications

Other lighting standards to consider include:

- DarkSky International's [Five Principles for Responsible Outdoor Lighting](#)

At a minimum, it is recommended that trail lighting comply with the following recommendations:

1. Targeted lighting and light shielding
  - a. Target lighting so that it is pointed downward and falls directly where needed. Full cut-off fixtures shall be in place to reduce light pollution and glare.
  - b. Lighting shall not be obstructed by tree canopies.
2. Lighting levels
  - a. Lighting shall be adequate to identify a face up to 20 yards away.
  - b. Use the lowest light level required, being mindful of surface conditions and reflectiveness of the trail surface
3. Lighting color
  - a. Lighting shall limit shorter wavelength (blue-violet) light while allowing for color rendition to enable users to identify features such as hair, clothing, and vehicle color of other trail users.