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

**Wilmington Urban Area Metropolitan Planning Organization
Citizen Advisory Committee
Meeting Agenda**

TO: Wilmington Urban Area MPO Citizen Advisory Committee
FROM: Mike Kozlosky, Executive Director
DATE: April 3, 2019
SUBJECT: April 10, 2019 meeting

A meeting of the Wilmington Urban Area MPO Citizen Advisory Committee will be held on Wednesday, April 10, 2019 at 2 pm. The meeting will be held in the 6th Floor Conference Room located at 320 Chestnut Street in downtown Wilmington.

The following is the agenda for the meeting:

- 1) Call to Order
- 2) Approval of the Agenda
- 3) Approval of Minutes- February 6, 2019 and March 6, 2019
- 4) Cape Fear Moving Forward 2045 Draft Bicycle and Pedestrian, Freight/Rail, Public Transportation, and Roadway Ranked Projects and Policies
Recommended Action: CAC approval of the Draft Bicycle and Pedestrian, Freight/Rail, Public Transportation, and Roadway ranked project lists and policies
- 5) Review of TCC/MPO Board recommendations for the MTP Financial Forecast and Alternative Funding Sources
- 6) Discussion related to Requests from the Modal Subcommittees for Continued Participation in the MTP Process
- 7) Next Meeting- June 5, 2019

Wilmington Urban Area Metropolitan Planning Organization

8) Adjourn

Attachments:

- Meeting Minutes- February 6, 2019
- Meeting Minutes- March 6, 2019
- Draft Modal Project Rank and Draft Modal Policies
 - Bicycle and Pedestrian
 - Freight/Rail
 - Public Transportation
 - Roadway
- MTP Financial Forecast and Alternative Funding Sources Memorandum

**Citizens Advisory Committee
6th Floor Conference Room, 320 Chestnut Street
Wednesday, February 6, 2019
Meeting Minutes**

Members Present:

Laura Padgett, City of Wilmington
Neal Andrew, North Carolina Board of
Transportation
Web Bostic, New Hanover County
Patrick Boykin, Town of Carolina Beach
David Hollis, Brunswick County
Harold King, Town of Wrightsville Beach
Vanessa Lacer, Cape Fear Public
Transportation Authority
Sallie Rochelle, Pender County
Stuart Smith, Town of Belville
Brayton Willis, Town of Leland

Members Absent:

John Cawthorne, Town of Kure Beach
Valorie Hatten, Town of Navassa
Jason Windham, City of Wilmington

Staff Present:

Katie Moore, Associate Transportation Planner
Zach Manfredi, Associate Transportation Planner
Michael Madsen, GIS Analyst
Mike Kozlosky, Executive Director

Others Present:

Carol Stein, Chair, Bicycle and Pedestrian
Advisory Committee

1. Call to Order

Chairman Padgett called the meeting to order at 2:06 p.m.

2. Approval of Agenda

Mr. Smith made a motion to approve the agenda as presented, seconded by Mr. King, and the motion carried 10-0, unanimously.

3. Approval of Minutes – January 7, 2019

Mr. King made a motion to approve the minutes of January 7, 2019 as amended to correct a typographical error. Mr. Smith seconded the motion, and it carried 10-0, unanimously.

4. Wilmington Urban Area MPO 2045 Travel Demand Model Presentation

Mr. Behshad Norowzi, Coastal Plains Group Supervisor, NCDOT Transportation Planning Unit, gave an overview of the socio economic data forecast for the Wilmington Urban Area Travel Demand Model (TDM). He noted that the goal is to have the model ready for MPO members to use for various project scenarios. He explained that the base year (2015) was used to calibrate the model to simulate known traffic volumes. He added that the next major update including Census data from 2020 would be in 2025 and have a 20-year horizon.

Mr. Norowzi stated that the model calculates trips throughout all of New Hanover County, and portions of Pender and Brunswick Counties. The model is comprised of 601 Transportation Analysis Zones (TAZ) of various sizes, inversely related to population density. For the 2045 model, control totals from the Office of the State Budget and Planning were combined with assessments of high, medium and low growth rates for the TAZs confirmed by member jurisdictions. He displayed maps with

growth densities and percentages of population and employment data. He noted that an electronic version of this document is available.

Chairman Padgett pointed out that the TDM models vehicular traffic only. Mr. Norowzi responded that the model has a transit component and other advanced modeling has some bicycle and pedestrian traffic. He noted that technology is changing rapidly, and the data is not yet available to quantify it.

A question/answer and discussion period was held. Committee members expressed concerns regarding the accuracy of the population projections.

Mr. Norowzi responded to a question about 2020 Census data by sharing that the model will be updated with 2020 Census data once it becomes available. This will likely occur in 2022 or 2023, as the collection and compilation of data to create the useful datasets can take several years before it is provided for use.

Mr. Hollis stated the model projects a population that is not accurate due to his knowledge of the "Compass Pointe" master-planned community that is adding a significant residential population to a previously unpopulated area in Brunswick County. He believes the values presented on the map for the TAZs are too low.

Mr. Norowzi pointed out that the map as presented is not at a resolution where all TAZs can be identified and counted using the values in the legend. The projections are not meant to predict future values. This model is a tool for estimating the relative changes that will affect the transportation network through 2045.

Mr. Norowzi responded that the projections are dependent on the Census and are consistent with state and have been verified by staff from MPO member jurisdictions using property tax data. He pointed out that the relative changes outweigh the absolute value of the numbers. He requested that members provide feedback to staff to improve the projections.

Mr. Kozlosky stated that MPO staff would work with Citizens Advisory Committee (CAC) and Technical Coordinating Committee (TCC) members and NCDOT, and bring revisions back to the Committee.

5. Cape Fear Moving Forward 2045 Bicycle and Pedestrian Modal Project List Discussion

Chairman Padgett stated that in response to concerns regarding on-road bicycle lanes the Bicycle and Pedestrian Advisory Committee stands by its project list and requests that the Committee approve it.

Ms. Moore acknowledged the presence of Carol Stein, Chair of the WMPO Bicycle and Pedestrian Advisory Committee.

Mr. Smith expressed concerns regarding the safety of bicyclists.

Ms. Stein stated that avid cyclists in the metropolitan area have biked on roads with automobiles for many years and are comfortable with that interaction; although, bike lanes would be a significant safety improvement and a benefit to the entire community.

Following a question/answer and discussion period, Mr. King made a motion to approve the Cape Fear Moving Forward 2045 Bicycle and Pedestrian Modal Project List. Mr. Andrew seconded the motion, and it carried 10-0, unanimously.

6. Cape Fear Moving Forward 2045 Draft Ferry and Water Transportation Ranked Projects and Policies

Mr. King made a motion to approve the Cape Fear Moving Forward 2045 Draft Ferry and Water Transportation Ranked Projects and Policies.

In response to inquiries by Committee members, Ms. Moore stated that the Ferry Subcommittee drafted criteria and ranked projects in priority of their benefit. She noted that the list would evolve based on cost estimate and relevance to transportation modes.

Chairman Padgett stated that some public-private projects might be added to the list.

Ms. Moore pointed out that multimodal connectivity was a primary objective and received the most points.

Following further consideration, Mr. Andrew seconded the motion to approve the list, and it carried 10-0, unanimously.

7. Alternative Funding Sources from the 2040 MTP

Ms. Moore stated that alternative funding sources for the last plan, which were presented to the CAC in February of last year, have been included in the agenda packet for informational purposes in preparation for the next meeting. She noted that WSP, the consultant providing the financial analysis of the projects, is scheduled to present an update regarding alternative funding sources for the new plan in March.

Mr. Kozlosky pointed out that this information is intended as homework for members. He noted that WSP will present these and additional funding sources for consideration of what the jurisdictions might support.

Chairman Padgett encouraged members propose additional sources.

A question/answer and discussion period was held. Mr. Kozlosky stated that \$1.3 billion is programmed in the State Transportation Improvement Program (STIP) during the next 10 years in this region, which includes state and federal funds, and about \$60 million from the city. He added that the state provides the matches for the federal projects.

Discussion continued. Ms. Moore reminded the Committee that some of the funding sources are not immediate. For example, referendums require a ballot and public approval.

8. Adjournment

With no further business, the meeting was adjourned at 3:16 p.m.

Respectfully submitted,

Katie Moore
Associate Transportation Planner
Wilmington Urban Area Metropolitan Planning Organization

PLEASE NOTE: THE NEXT MEETING OF THE CAC WILL BE HELD ON MARCH 6TH.

**THE ABOVE MINUTES ARE NOT A VERBATIM RECORD OF THE PROCEEDINGS.
THE ENTIRE PROCEEDINGS ARE RECORDED ON A COMPACT DISC AS PART OF THIS RECORD.**

Citizens Advisory Committee
6th Floor Conference Room, 320 Chestnut Street
Wednesday, March 6, 2019
Meeting Minutes

Members Present:

Laura Padgett, City of Wilmington
John Cawthorne, Town of Kure Beach
Neal Andrew, North Carolina Board of
Transportation
Patrick Boykin, Town of Carolina Beach
Harold King, Town of Wrightsville Beach
Vanessa Lacer, Cape Fear Public
Transportation Authority
Sallie Rochelle, Pender County
Stuart Smith, Town of Belville
Brayton Willis, Town of Leland
Jason Windham, City of Wilmington

Members Absent:

Web Bostic, New Hanover County
Valorie Hatten, Town of Navassa
David Hollis, Brunswick County

Staff Present:

Katie Moore, Associate Transportation Planner
Zach Manfredi, Associate Transportation Planner
Michael Madsen, GIS Analyst
Mike Kozlosky, Executive Director

Others Present:

Leta Huntsinger, WSP
Nazia Sarder, NCDOT

1. Call to Order

Vice Chairman Cawthorne called the meeting to order at 2:06 p.m.

2. Approval of Agenda

Ms. Rochelle made a motion to approve the agenda as presented, seconded by Mr. Andrew, and the motion carried unanimously.

3. Approval of Minutes – February 6, 2019

Mr. Boykin requested that a typographical error (Technical Coordinating Committee acronym) be corrected on the second page of the minutes.

Mr. Smith requested that the base year of the Travel Demand Model (TDM) be specified.

Mr. Andrew made a motion to approve as amended the minutes of February 6th, seconded by Mr. King.

Mr. Willis requested that additional details regarding Compass Pointe be included in the minutes. Mr. Kozlosky responded that the changes would be made and the revised minutes would be brought to the April meeting for approval.

Mr. Andrew withdrew his motion to approve the minutes of February 6th.

4. Cape Fear Moving Forward 2045 Financial Forecast and Potential Funding Presentation – Leta Huntsinger, WSP

Leta Huntsinger, Project Manager, WSP, gave an overview of the financial forecasting process. She pointed out that Wilmington is somewhat unique in that it includes all modes of transportation. She stated that this forecast is based on historic data sources to fund infrastructure improvements. She noted that the data was entered into a model to generate

a new forecast for the region. In comparison to the last transportation plan, most funding increased, except for aviation that remained flat and rail capital funding that decreased.

In response to an inquiry by Mr. Smith, Ms. Huntsinger stated that some transit funds became unavailable due to growth or urbanization of the region.

Mr. Kozlosky stated that the decrease in funding further demonstrates the need for a dedicated funding source for WAVE Transit.

Ms. Huntsinger stated that the largest increase was in highway funding. She attributed the increase to successful programming of projects into the Transportation Improvements Program (TIP) since SPOT changed the way highway funds were allocated, which benefited the MPO region. In addition, the region recently was awarded a grant for rail safety improvements, grants are not traditionally included the financial forecast.

Ms. Huntsinger stated that following the needs assessment and system analysis, the selected projects have been provided to WSP with details. She noted that this data is entered into costing models to provide the forecast, which is anticipated to be complete by the middle of this month. She added that a gap between the funding forecast and the cost of projects is to be expected, especially for a growing region. Some projects may be left out of the plan. Alternative funding sources may help bridge the gap for critical projects. Others with identified alternative funding may be placed on an illustrative list for study.

Ms. Huntsinger stated that alternative funding sources from the last MTP were reviewed (none of which were implemented), and new ones were sought and vetted by subject matter experts at WSP and UNC School of Government to narrow the list down to those that could be reasonably implemented.

Ms. Huntsinger stated that the most common types of taxes for transportation improvements include a quarter-cent local option sales tax or a specific one for transit, both of which would require voter approval. Vehicle registration fees for transportation improvements require support by county commissioners and are capped at \$7 per vehicle. Municipalities can levy a total motor vehicle license tax of \$30, which can be used for multiple purposes including municipal streets.

Mr. Kozlosky stated that the city used its 2014 Transportation Bond to fund improvements to city streets that were identified in the MPO's long-range plan. One example is the Pine Grove Road Roundabouts at Holly Tree Road and Greenville Loop Road. He added that the city is currently discussing the motor vehicle license tax.

Ms. Huntsinger pointed out that many of the funding sources require political will as well as public support.

Ms. Huntsinger stated that other funding options include vehicle rental tax. Tolling is also an option, but must be project specific. She gave an overview of several grant and loan programs, as well as bonds and financing mechanisms that could be used to advance projects.

A lengthy question/answer and discussion period was held regarding funding sources.

Mr. Smith suggested reprioritizing funding of non-transportation items to minimize waste at the state and federal levels and to improve transportation funding.

Ms. Huntsinger pointed out that the state is currently researching Vehicle Miles Traveled (VMT), which may be the future of transportation funding along with user fees.

Mr. Cawthorne inquired about public-private partnerships. Ms. Huntsinger responded that projects which would utilize these sources are not far enough along to be included in the funding plan. However, partnerships have been utilized within North Carolina for roadway projects, such as the I-77 managed lanes in Charlotte. She commented that the Wilmington region presents fewer opportunities for this option to be feasible.

Ms. Padgett pointed out that public-private partnerships would be appropriate for freight/rail.

Ms. Huntsinger recapped that the additions to the alternative funding sources to include public-private partnerships and research on impact fees on the sale of property. She noted that specific grants have not been included, which should be sought for key projects. She recommended the alternative funding sources that were recommended for the last plan. She added that although New Hanover County has exercised a sales tax option, it might not be maximized yet.

Mr. Kozlosky commented that the vehicle license tax has not been maximized either. He requested that the transportation bond be included.

Mr. King expressed concerns regarding capturing tourism dollars. Mr. Andrew and Ms. Padgett concurred.

A lengthy question/answer and discussion period was held regarding bridging the gap and potential funding sources.

Mr. Cawthorne commented that new development causes impacts as well as tourism.

Mr. Smith pointed out that those who live in mid to lower Brunswick County might have some concerns about increased taxes for remote transportation improvements.

Ms. Lacer pointed out that transit is in all three counties and provided assistance and emergency services during the hurricane.

Mr. Smith responded that this has not been publicized adequately.

Mr. Andrew made a motion to recommend all of the above recommendations.

Mr. Cawthorne summarized that this would include all five recommendations from the 2040 MTP (WSP Recommendations) plus P3, transportation bonds, real estate and new development impact fees, Room Occupancy Tax specifically for transportation, tolling, grants, and VMT.

Ms. Huntsinger clarified that MPOs have no control over VMT. She suggested instead research regarding a mechanism that could be applied on a local level. She reminded members that tolling only applies to new facilities.

Mr. Andrew requested to add tolling and grants.

Ms. Rochelle requested that marina taxes be researched.

Mr. Andrew requested research on best practices for capturing dollars for non-resident impacts.

Ms. Padgett seconded the motion to recommend the alternate funding sources, and the motion carried unanimously.

5. Cape Fear Moving Forward 2045 Draft Aviation Ranked Projects and Policies

Mr. Manfredi stated that the aviation projects are ranked in order, and are accompanied by policies and methodology. He commented that the representatives from both the state and Wilmington International Airport were satisfied with the policies and the projects.

Ms. Moore reminded the Committee that this list is a starting point and would be further refined with pending cost estimates.

Mr. King made a motion to approve the Cape Fear Moving Forward 2045 Draft Aviation Ranked Projects and Policies. Mr. Andrew seconded the motion to approve the list, and it carried unanimously.

6. Next Meeting – Discussion to move to April 10th, 2019

Ms. Moore stated that a conflict exists for the next meeting of the CAC, and proposed to reschedule it to April 10th. It was the consensus of the group to accept that change in date.

7. Adjournment

With no further business, the meeting was adjourned at 3:30 p.m.

Respectfully submitted,

Katie Moore
Associate Transportation Planner
Wilmington Urban Area Metropolitan Planning Organization

PLEASE NOTE: THE NEXT MEETING OF THE CAC WILL BE HELD ON APRIL 10TH.

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MEMORANDUM

To: Citizen Advisory Committee Members
From: Zach Manfredi, Associate Transportation Planner
Subject: Bicycle and Pedestrian Ranked Projects and Policies

Preliminary Ranking of Proposed Bicycle and Pedestrian Projects

See Attachment.

Subcommittee Recommendation for 2045 MODE Policies

- A. Develop and maintain a safety campaign for drivers, cyclists, and pedestrians.
- B. Focus on improving bike and pedestrian safety at intersections using best practices and emerging tools.
- C. Give high priority to safety improvements in the vicinity of schools, public transit, commercial corridors, and other high-use bicycle and pedestrian destinations.
- D. Work toward addressing and improving challenging intersections and physical barriers, and consider pedestrian and bicycle movement in the planning stages for new or reconstructed facilities.
- E. Proactively seek new opportunities for acquisition of abandoned rights-of-way, natural waterways, utility rights-of-way, and other lands for the development of new facilities that integrate with the planned system.
- F. Encourage events that introduce residents to walking and bicycling, such as walk/bike to work, walk/bike to school, River to Sea bike ride, and charity or fundraising events.
- G. Accommodate all types, ages, and abilities of users in a comfortable manner throughout the system, while recognizing that all modes of travel and/or level of user ability may not necessarily be accommodated on every road or path.
- H. Support the development and adoption of local bicycle and pedestrian plans that identify projects to create an integrated and multimodal transportation system for the region.
- I. Express interest in an increased availability of regional, state, and federal funding sources for bicycle and pedestrian transportation projects.
- J. Utilize the WMPO Transportation Demand Management Committee, when appropriate, to develop projects, programs, initiatives, and events that support active transportation choices.
- K. Continue to support the recommendations of the WMPO Bicycle and Pedestrian Advisory Committee.
- L. Seek all possible funding sources to implement programs and projects. Work with federal, state, regional, and local agencies and any other available public or private funding sources to secure funding for the bicycle and pedestrian system.

Wilmington Urban Area Metropolitan Planning Organization

M. Support the incentivization of public/private partnership development of bicycle and pedestrian facilities.

Scoring Methodology for Ranking Bicycle and Pedestrian Projects

Scale	Goal	Criteria:	Attribute:	Score
25	Safety, Education, and Enforcement	Build facilities and traffic engineering solutions that prioritize cycling safety	Functional classification of adjacent/intersecting facility (Arterial=10, Collector=6, Local=2)	10
		Increase the number of crosswalks at existing signals		15
		Prioritize pedestrian projects that occur at, or seek to improve the safety of high risk/high crash locations	Bicycle and/or pedestrian high crash location (K=15, A=13, B=10, C=8, O=5)	
20	Multimodal Connectivity and Transportation Choice	Improve connections between bicycling and other modes of transportation	Project intersects roadway or project is an intersection improvement located within a reasonable distance of a transit stop (0.25 mi=10, 0.5 mi=5, 0.75 mi=2)	10
		Install crosswalks near bus stops		
		Evaluate the installation of sidewalks and crosswalks based on residential and employment density	Project is located within an area of high household density or employment density (HH+HE=10, HH or HE=5)	10
35	Built Environment, Land Use, and Connectivity	Increase bicycling facilities within 1 mile of school campuses	Project falls within 1 mile of a school or within a reasonable distance of grocery store or community resource center (school 1 mi=6) (grocery/resource 0.25 mi=6, 0.5mi=4, 0.75mi=2)	12
		Increase bicycle connections to grocery stores and resource centers		
		Increase pedestrian facilities within 1 mile of school campuses		
		Increase pedestrian connections around grocery stores and resource centers		
		Build pedestrian facilities that mitigate barriers in existing built environment	Functional classification of adjacent/intersecting facility OR geographic barrier ie river (Arterial/Barrier=10, Collector=6, Local=2)	10
		Increase bicycle connections between parks and residential areas	Project provides connection or fills gap providing connection from a recreation area or community or government center (0.25mi=5, 0.5mi=3, 0.75=1)	5
		Increase pedestrian connections between parks and residential areas		
Increase pedestrian facilities around libraries, community/senior				

		centers, courthouses and government centers		
		Increase connections between existing pedestrian facilities	Project fills a gap in an existing network (2000ft+=8, 1,000-2,000ft=5, less 1,000ft=3)	8
20	Economic Development	Increase bicycle tourism	Connects or fills a gap providing a complete connection to a POI (Y/N)	6
		Develop downtown pedestrian-friendly shopping areas		
		Increase access and mobility projects targeting identified areas of low-income and minority residents	Project located in or connects to low-income, minority, and/or LEP identified area (all=10, low income=4, minority=3, LEP=3)	10
		Increase accommodation or major cycling events in facility design	Project falls on identified event route (Y/N)	4
		Include accommodation of major pedestrian events in facility design		

To create a ranked list of the proposed Bicycle and Pedestrian projects, the subcommittee developed criteria by assigning a value to objective attributes with identifiable and measurable metrics. To maintain transparency of the process, it was important that metrics were data driven. This process should allow for replication of point assignments using available quantitative and qualitative datasets.

Point totals were used to sort projects into a ranked list. Although 100 points were potentially available for all projects, the total score of each project relative to 100 points does not represent its value to the region. The ranked list will need to be further evaluated and revised based on funding eligibility and regional needs.

The subcommittee recognized the importance of future analysis through the NCDOT Prioritization process and potential for project refinement by WMPO jurisdictions, partners, and community stakeholders.



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Rank	Project Name	To/From (Location Description)	MAP ID
1	Leland/Wilmington BikePed Connection	Village Road	BP-268
2	US - 117 /NC 132 (S. College Rd.) BikePed Improvement	Market ST	BP-456
3	US - 17 BUS (3rd Street) MUP	US 421 (Carolina Beach Rd)	BP-270
4	US - 17 BUS (Market St.) Bicycle Lanes	Kerr Ave.	BP - 861
5	US - 117 (Shipyard Blvd. Trail) MUP	River Rd	BP-308
6	SR - 1175 (Kerr Ave.) BikePed Improvement	Randall Pkwy	BP - 457
7	SR - 1411 (Wrightsville Avenue) BikePed Improvements	Dawson St	BP-458
8	US - 17 BUS (Market St.) & Lullwater Dr.		BP - 700
9	US - 117/NC 132 (S. College Rd) MUP Ph I	Hurst Dr	BP-35
10	SR - 1573 (Dow Rd. South) MUP	Snows Cut	BP - 303
11	River to Sea Trail (MUP)	Castle St.	BP - 316
12	Cross City Trail MUP	S Kerr Ave	BP-559
13	US - 76 (Oleander Dr) BikePed Improvements	Hawthorne Rd	BP-52
14	US - 117/NC 132 (S. College Rd.) MUP Ph II	Randall Pkwy	BP-36
15	Gordon Road BikePed Improvements	Military Cutoff Rd	BP-373
16	3rd St. & Brunswick St.		BP - 788
17	SR - 1209 (Independence Blvd) Extension MUP	Randall Pkwy	BP-16
18	US - 421 (Carolina Beach Rd. Trail) MUP	17th St	BP-307
19	North Smith Creek Trail	Smith Creek Park	BP-426
20	US - 421 (Carolina Beach Rd.) BikePed Improvements	Burnett Blvd	BP-464
21	US - 76 (Oleander Dr.) & US - 76 (Dawson St.)		BP - 681

Wilmington Urban Area Metropolitan Planning Organization

City of Wilmington • Town of Carolina Beach • Town of Kure Beach • Town of Wrightsville Beach
 County of New Hanover • Town of Belville • Town of Leland • Town of Navassa • County of Brunswick
 County of Pender • Cape Fear Public Transportation Authority • North Carolina Department of Transportation

22	SR - 2313 (Wilshire Blvd) BikePed Improvements	Wrightsville Ave	Kerr Ave	BP-45
23	Floral Pkwy BikePed Improvements	Independence Mall Entrance	Wrightsville Ave	BP-233
24	Masonboro Loop Trail I	Navaho Trl	Hugh McRae Park	BP-277
25	Airlie Rd. MUP	Military Cutoff Rd.	Eastwood Rd.	BP - 336
26	SR - 1272 (New Centre Dr.) BikePed Improvements	College Rd	Columb Dr	BP-398
27	Carolina Beach Rd & Antoinette Dr			BP-619
28	US - 117/NC -132 (S. College Rd.) & Randall Parkway			BP - 661
29	US - 117/NC 132 (N. College Rd.) Central Trail MUP	South Smith Ck. Trail	Northchase Pkwy	BP - 546
30	US - 421 (Carolina Beach Rd.) and US - 117 (Shipyard Blvd.) Pedestrian Crossing Improvements			BP - 589
31	SR - 1272 (New Centre Dr.) & US - 117 N/NC - 132 (S. College Rd.)			BP - 649
32	SR - 1409 (Military Cutoff) BikePed Improvements	Wrightsville Ave	Eastwood Rd	BP-396
33	N. 3rd St. & Red Cross St.			BP - 722
34	SR - 1472 (Village Rd.) MUP Loop	Old Mill Rd	S. Navassa Rd.	BP-297
35	Lewis Dr & US - 421 (Lake Park Blvd.)			BP - 604
36	St. Joseph St. & US - 421 (N. Lake Park Blvd.) Intersection Improvements			BP - 846
37	5th Ave Bicycle Lanes	Cambell St	Greenfield Lake Park	BP-1
38	Central Blvd/Morningside Dr BikePed Improvements	Burnett Blvd	Yaupon Dr	BP-147
39	10th St. & US - 76 (Wooster St.)			BP - 765
40	SR - 1209 (Independence Blvd) MUP Ph II	Us 421 (Carolina Beach Rd)	S 17th St	BP-15
41	University Drive & US - 117/ SR - 132 (S. College Rd.)			BP - 636
42	US - 76 (Causeway Dr) Bicyclist Improvements	Airlie Rd	Waynick Blvd	BP-28
43	Front St. Sharrow	Ann St.	Cape Fear Mem. Bridge	BP - 370
44	John D. Barry Dr. MUP	17th St.	Robert E. Lee	BP - 381
45	US - 421 MUP	Sutton Steam Plant Rd	Battleship Park	BP-324
46	Downtown Trail Greenway (Phase II, Nutt St to Burnt Mill Creek)	Nutt St	Burnt Mill Creek	468b

47	US - 421 (Carolina Beach Rd and Halyburton Pkwy) BikePed Crossing Improvements					BP - 560
48	US - 17 BUS (Market St.) & (Barclay Hills Dr.) Pedestrian Crossing Improvements					BP - 698
49	10th St. & US - 76 (Dawson St.)					BP - 744
50	SR - 1409 (Military Cutoff Rd.) & Destiny Way/Fresco Dr.					BP - 775
51	SR - 1492 (Masonboro Loop Rd.) MUP II	Navaho Trl			College Rd/NC 132	BP-269
52	US - 117/NC 132 (N. College Rd.) MUP	Blue Clay Rd			North Chase Pkwy.	BP - 361
53	US - 421 (Central Lake Park Blvd.) Sidewalks	Atlanta			Alabama	BP - 551
54	SR - 1217 (17th St.) NHC Library Connection MUP	John Barry Dr			Pine Valley Branch Library	BP - 556
55	US 421 (Carolina Beach Rd.) & US - 117/NC - 132 (S. College Rd.)					BP - 581
56	SR - 1409 (Military Cutoff Rd.) & Sir Tyler Dr.					BP - 774
57	Downtown Trail Greenway (Phase I, Riverfront Boardwalk to Bess St)	Riverfront Boardwalk			Bess St	468a
58	Greenville Loop Rd & Oleander Drive					BP-591
59	Burnt Mill Creek MUP	Market ST			Archie Blue Park	BP-39
60	Front St. Sharrow	Market ST			Downtown Greenway	BP - 471
61	US - 117/ NC - 132 (S. College Rd.) & US - 76 (Oleander Dr.)					BP - 646
62	US - 421 (Carolina Beach Rd.) MUP	Sanders Rd			River Rd	BP-305
63	US - 17 Bus. (Market St.) Rail Trail MUP	Cape Harbor Dr			Porters Neck Rail Trail	BP-423
64	US - 74 (Wrightsville Beach Sidewalk Realignment)	Drawbridge laneshift			Drawbridge laneshift	BP - 860
65	US - 76 (Causeway Dr.) Sharrow	Airlie Rd			Waynick Blvd	BP - 441
66	SR - 1409 (Military Cutoff Rd.) & US - 74 (Eastwood Rd.)					BP - 648
67	SR - 1576 (South River Rd. Trail) MUP II	Sanders Rd			Soundside Dr	BP-306
68	US - 117/NC 133 (Castle Hayne Rd.) Bicycle Lanes	Kerr Ave.			North of I-140	BP - 355
69	South Smith Creek Trail	Kerr Ave.			Market Street	BP - 432
70	US - 117/NC 133 (Castle Hayne Rd.) Bicycle Lanes	Kerr Ave.			Brentwood Dr.	BP - 437

71	US - 117/NC - 132 (S. College Rd.) & Shopping Center Entrance					BP - 584
72	Peachtree Ave MUP		S Kerr (BP 457)		Hugh McRae Park	BP-49
73	NC 133/River Road MUP		Village Road		WMPO Boundary	BP-276
74	Military Cutoff Rd & Wrightsville Avenue					BP-590
75	SR - 1217 (17Th St.) & Glen Meade Rd					BP - 597
76	S 21st St & US - 17 BUS (Market St.)					BP - 639
77	US - 421 (S. 3rd St.) & US - 76 (Dawson St.)					BP - 669
78	SR - 1272 (New Centre Dr.) Bicycle Lanes I		College Rd		Terminus	BP-397
79	Parker Farm Dr & SR - 1409 (Military Cutoff Rd.)					BP - 635
80	US - 421 (Snow's Cut Bike/Ped Bridge)		Soundside Dr		Bridge Barrier Rd	BP-304
81	SR -1492 (Myrtle Grove Rd.) Trail MUP		Carolina Beach Rd/College Rd		Carolina Beach Rd	BP-433
82	SR - 1301 (Princess Place Dr.) and 30th. St.					BP - 754
83	College Acres Dr. MUP		Oriole Dr		College Rd	BP-280
84	US - 74 (Wrightsville Beach Trail) MUP		Causeway Bridge		South Ridge Lane	BP - 325
85	US - 76 Waynick Blvd. Bike Lanes		Causeway Bridge		S. Lumina Ave.	BP - 281
86	Cape Fear Blvd. Bicycle Lanes		3rd St.		CB Ave.	BP - 349
87	Princess Street Sharrows		5th St		20th St	BP-406
88	Drysdale Dr & SR - 1409 (Military Cutoff Rd.)					BP - 574
89	Carolina Beach Rd & Independence Blvd					BP-594
90	SR - 1409 (Military Cutoff Rd.) & Cayman Court					BP - 633
91	US - 17 BUS (Market St.) & SR - 2048 (Gordon Rd.)					BP - 647
92	SR - 1409 (Military Cutoff Rd.) & Station Rd					BP - 579
93	US - 74 (Eastwood Rd.) & Bay Creek Dr.					BP - 642
94	US - 17 (Ocean Highway) MUP		Ploof Rd.		Ocean Gate Plaza	BP - 12
95	Middle Sound Loop MUP		Red Cedar Rd		Market Street Rail Trail	BP-863
96	SR - 1318 (Blue Clay Rd Bicycle Lanes II)		Sidbury Rd		Proposed Rail Trail Corridor	BP-345
97	Lake Ave BikePed Improvements		Hallifax Rd		College Rd	BP-193

98	I-140 East MUP		Market St	Murrayville Rd	BP-301
99	US - 74 (N.Lumina Ave.) Sharrow		Salisbury St	Causeway Dr	BP-442
100	SR - 2048 (Gordon Rd.) & SR - 2698 (Netherlands Dr.)				BP - 795
101	Brunswick Nature Park Connector I MUP		US 17	Mallory Creek Dr	BP-239
102	US - 17 (Ocean Hwy E.) & W. Gate Dr./Grandiflora Dr.				BP - 839
103	SR - 1576 (North River Rd.) Trail MUP (Remaining Section)		Independence Blvd	Sanders Rd	BP-430
104	US - 76 (Cape Fear River Crossing)		East side of river	West side of river	BP - 856
105	SR - 1209 (Independence Blvd) MUP Ph I		River Rd	US 421 (Carolina Beach Rd)	BP-14,285
106	SR - 1551 (Blackwell Rd SE) MUP		NC 133/River Rd	Chappell Loop Rd SE	BP-240
107	Causeway Dr & Salisbury St				BP-563
108	US - 421 (Carolina Beach Rd.) & Echo Farms Blvd./George Anderson Crossing Improvements				BP - 855
109	SR - 1619 (Brunswick Forest to Town Creek Park and Schools) MUP		Brunswick Forest Pkwy.	Zion Church Rd. NE	BP - 859
110	US - 421 (S. Lake Park Blvd.) and Driftwood Ln. Intersection Improvements				BP - 849
111	Brunswick Nature Park Connector II MUP		Mallory Creek Dr	Brunswick Nature Park	BP-238
112	Chappell Loop Bicycle Lanes		NC 133/River Rd	Blackwell Road	BP-298
113	Carolina Beach Waterfront Trail (MUP)		Carl Winner Ave.	Hamlet Ave.	BP - 322
114	Rogersville Rd Trail (MUP)		Eastwood Rd	Wrightsville Ave	BP-326
115	St Joseph Street Bike Lane and Sidewalk		Lees Lane	Lewis Drive	BP-409
116	US - 421 (Carolina Beach Rd.) and Mateo Dr. Pedestrian Crossing Improvements				BP - 580
117	Country Club MUP		Sloop Point Loop Rd	US 17	BP 273
118	SR - 1363 (Bayshore Dr.) & US - 17 (Market St.)				BP - 577
119	SR - 1187 (River Rd.) & US - 421 (Carolina Beach Rd.)				BP - 626
120	US - 76 (Causeway Dr.) & SR - 1452 (N.Lumina Ave.)				BP - 644
121	US 17 & Olde Waterford Way/Ploof Rd SE				BP-838
122	SR - 1561 (Sloop Point Loop Rd) MUP		Country Club Dr	US 17	BP-247

123	SR - 1336 (Sidbury Rd.) BikePed Improvements	US 17	Dairy Farm Rd	BP-411
124	US - 421 (South Fort Fisher Blvd.) MUP	Ft Fisher Aquarium Path	Ferry Terminal	BP - 246
125	US - 17 (Ocean Hwy E.) & SR - 1438 (Lanvale Rd. NE)/Provision Parkway			BP - 842
126	Hampstead Bypass MUP	Dairy Farm Rd.	Old Whitfield Rd.	BP - 179/209
127	US - 421 (S. Lake Park Blvd.) & North Carolina Ave. Intersection Improvements			BP - 851
128	Clarendon Ave MUP	Dow St.	4th St.	BP-56
129	SR - 1516 (Navaho Trail) MUP	Masonboro Loop (north)	Masonboro Loop (south)	BP - 165
130	US - 17 BUS (Market St.) & SR - 2219 (N. Green Meadows Dr.)			BP - 792
131	Harper Ave. & Canal Dr. Intersection Improvements			BP - 845
132	West Gate Park Connector MUP	West Gate Dr	Wire Rd	BP-13
133	US -117/NC 133 (Castle Hayne Rd.) MUP	US 117	NC 210	BP - 180
134	US - 117/NC 132 (N. College Rd.) MUP	NC 210	NC 133	BP - 212
135	US - 421 & Isabel Holmes Bridge			BP - 572
136	Harper Ave. & N. 7th St. Intersection Improvements			BP - 854
137	SR - 1336 (Sidbury Rd) BikePed Improvements	US 17	Dairy Farm Rd	BP-178
138	Halifax Rd. BikePed Improvements	Lake Ave.	Fordham Rd.	BP - 146
139	SR - 1187 (Sanders Rd.) & SR - 1187 (River Rd.)			BP - 625
140	K Ave & Us 421			BP-843
141	SR - 1569 (Hoover Rd.) MUP	US 17	Tim Moore Dr.	BP - 223
142	SR - 1592 (Landsdown Rd.) BikePed Improvements	Navaho Trail	S. College	BP - 275
143	Leland MUP	NC 133	US 17	BP - 862
144	US - 421 (S. Lake Park Blvd.) & South Carolina Ave. Intersection Improvements			BP - 852
145	SR - 1430 (Cedar Hill Rd.) MUP	Royster Rd.	Winding Trail Ext.	BP - 261
146	Lossen Lane MUP	Old Fayetteville Rd.	Old Village Rd.	BP - 131
147	SR - 1187 (South River Rd. Trail) MUP I	Us 421 (Carolina Beach Rd)	River Rd	BP-282

148	SR - 1472 (Fletcher Rd NE) MUP	Lanvale Rd NE	Northwest Township District Park	BP-237
149	SR - 1521 (Piner Rd.) & SR - 1492 (Myrtle Grove Rd.)			BP - 627
150	SR - 1566 (Ploof Rd. SE) MUP	US 17	Chappell Loop Rd SE	BP-286
151	SR - 1402 (Porters Neck Rd.) MUP	Bald Eagle Ln	Future Passive Park	BP-300
152	Alabama Ave MUP	Island Greenway	West Park Blvd.	BP - 337
153	Belville Elementary Connector in Belville	Belville Elementary	neighborhoods	BP - 858
154	SR - 1524 (Chappell Loop Rd. SE) MUP	Blackwell Rd (south)	Blackwell Rd (north)	BP - 248
155	US - 117/NC 133 (Castle Hayne Rd.) MUP	NC 210	Cheshire Rd.	BP 201
156	Island Creek Rd BikePed Improvements	Royal Oak Ct	US 17	BP-206
157	US - 421 (S. Lake Park Blvd.) & Texas Ave. Intersection Improvements			BP - 853
158	Jenkins Road BikePed	US 17	St. Johns Church Rd.	BP - 42
159	St. Johns Church Rd. BikePed	Jenkins Rd.	end	BP -43
160	Plantation Road MUP	Crooked Pine Rd	End of Plantation Rd (East End)	BP-97
161	Carolina Beach Rd & Myrtle Grove Rd			BP-561
162	SR - 1569 (Hoover Rd.) MUP	Tim Moore Dr.	Highlands Dr.	BP - 224
163	SR - 1002 (Holly Shelter Rd.) BikePed Improvements	Blue Clay Rd	Royal Oak Ct	BP-376
164	SR - 1539 (Ocean Blvd.) MUP	S. Lake Park Blvd	Dow Rd	BP - 469
165	SR - 1539 (Ocean Ave.) & Island Greenway			BP - 834
166	Mallory Creek MUP	Cove Landing Dr	Lillibridge Dr.	BP -272
167	SR - 1318 (Blue Clay Rd Bicycle Lanes I)	Holly Shelter Rd	Sidbury Rd	BP-344
168	Western Rail Corridor Trail (MUP)	New Hanover County Line	US HWY 421	BP-323
169	Jackey's Creek Connector MUP	Jackeys Creek Ln	Night Harbor Dr SE	BP-249
170	Apache Trail MUP	Mohican Trail	Navaho Trail	BP - 857
171	Bayfield Dr Sharrow	Bayshore Dr	Porters Neck Rd	BP-341



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MEMORANDUM

To: Citizen Advisory Committee Members
From: Katie Moore, Associate Transportation Planner
Subject: Freight and Rail Ranked Projects and Policies

Preliminary Ranking of Proposed Highway Freight Projects

1.	Cape Fear Crossing	New Roadway	RW-210
2.	Carolina Beach Road Projects	Improve Existing	RW-66
3.	South Gate Improvements	Port Entrance Improvement	RW-211
4.	Front Street Widening and Redesign	Improve Existing	RW-65
5.	Burnett Blvd Widening at Meyers Street	Improve Existing	RW-123
6.	Greenfield to Woodbine Connector	New Roadway	RW-115
7.	North Gate Improvements	Port Entrance Improvement	RW-210
8.	Leland Causeway Widening	Improve Existing	RW-20
9.	Burnett Blvd Reroute	Reroute Public Traffic	RW-212
10.	Cedar Hill Road Redesign	Redesign Existing	RW-164
11.	River Road Reroute	Reroute Public Traffic	RW-55

Preliminary Ranking of Proposed Rail Freight Projects

1.	Rail Realignment	New Rail	FR -18
2.	South Gate Grade Separation	Port Entrance Improvement	FR-16
3.	Wilmington Beltline Improvements	Safety Improvement	PROG
4.	North Gate Grade Separation	Port Entrance Improvement	FR-17
5.	Front Street RR Crossings	Safety Improvement	FR-65
6.	Davis Yard At-grade Crossing	Safety Improvement	FR-22
7.	US 421 RR Crossing	Safety Improvement	FR-15
8.	Castle Hayne to Wallace	Re-establish Rail	FR-7
9.	Malmo to Whiteville	New Rail	FR-23
10.	Pender Commerce Park Extension	New Rail	FR-21
11.	Interchange near Northwest District Park	Redesign Existing	FR-24
12.	Transit on Wilmington Rail Corridor	Repurpose Existing	FR-19

Wilmington Urban Area Metropolitan Planning Organization

Subcommittee Recommendation for 2045 Freight and Rail Policies

- A. Accommodate emerging technology and facilitate adaptations relating to changing demands.
- B. Invest in circulation and safety improvements that mitigate the impact of freight on the community.
- C. Increase the collection of freight data that can be used to analyze system usage and needs.
- D. Prioritize the preservation of existing facilities to maintain a state of good repair.
- E. Build system reliability by decreasing vulnerability, increasing redundancy, and developing rapid response plans for disasters and emergencies.
- F. Align proposed projects with freight facility investments outside the MPO boundary through coordination with local, state, and federal agencies.
- G. Recognize the importance of Strategic Business Plan projects for improved freight movement.

Scoring Methodology for Ranking Freight and Rail Projects

To create a ranked list of the proposed Freight and Rail projects, the subcommittee developed criteria by assigning a value to objective attributes with identifiable and measurable metrics. To maintain transparency of the process, it was important that metrics were data driven. This process should allow for replication of point assignments using available quantitative and qualitative datasets.

Freight and Rail projects were awarded the score value based upon measurable data when available. A scale of point values was utilized when possible. The methodology also utilized “yes/no” or “presence/absence” judgement after reviewing the project scope and description developed by the subcommittee.

Point totals were used to sort projects into a ranked list. Although 100 points were potentially available for all projects, the total score of each project relative to 100 points does not represent its value to the region. The ranked list will need to be further evaluated and revised based on funding eligibility and regional needs.

The subcommittee recognized the importance of future analysis through the NCDOT Prioritization process and potential for project refinement by WMPO jurisdictions, partners, and community stakeholders.

Scale	Goal	Criteria:	Attribute:	Score
35	Regional Economic Vitality	Improves connectivity of regional assets to freight network	Connection to high priority freight corridor (arterials and class I)	5
			Connection to a freight asset	5
			Connection to a potential asset	
		Reduces connection distance (new route between assets)	5	
		Increases capacity of an identified NC Strategic Corridor	Adds capacity or throughput to priority freight route or class 1 rail High=10, Med=5	10
		Proactively alleviates congestion in WMPO Travel Demand Model 2045 forecasted growth areas	Employment growth area High=5, Med=2	10
Population growth area High=5, Med=2				
35	Transportation Network Efficiency and Safety	Mitigates congestion and bottlenecks for freight	AADT>2000/AADT>3000 (CMP % Truck Volume)	5 or 10
			Eliminates at-grade crossing	10
			LOS C=5, LOS DEF=10	
		Improves safety of corridors connecting freight assets	Crash Rate HML (10/5/3)	10
			Existing at-grade crossing	5
			Mode convergence corridor	
30	Supply Chain Resilience and Reliability	Builds reliability for highway and rail freight corridors	Interstate/Freeway/Major Arterial/STN designation	5
			Sealed corridor distance increase	10
			CMP delay >60sec=5, >90sec=10	
		Improves vulnerable infrastructure and/or builds redundant infrastructure	Alternative route to critical freight corridor New route=10 Improvement to existing route=5	10
			Improves corridors to serve military movements	STRAHNET (or Alt Route)
		STRACNET (or Alt Route)		
		Freight route to Port (or Alt Route)		



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MEMORANDUM

To: Citizen Advisory Committee Members
From: Zachary Manfredi, Associate Transportation Planner
Subject: Public transportation Ranked Projects and Policies

Preliminary Ranking of Proposed Public Transportation Projects

See Attachment.

Subcommittee Recommendation for 2045 Public Transportation Policies

- A. Educate the public and elected officials on the value of our public transportation system such as improvements to air quality, opportunities for economic development, reduced roadway congestion, and increased quality of life.
- B. Develop land use plans that incentivize increased density and the inclusion of transit elements through infill and new development.
- C. Improve connectivity of multimodal infrastructure adjacent to bus routes including sidewalks, crosswalks, trails, and park and ride lots.
- D. Support continued and additional local investment in transit to meet the needs of current customers, while making strategic investments to increase customer base.
- E. Support capital investments in vehicle fleet to reduce emissions and increase reliability.
- F. Continue planning efforts and alternative funding efforts in order to meet the transportation needs of the community.
- G. Maintain pricing that allows public transportation to be a competitive transportation option for customers while valuing tax payer investments.

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County of New Hanover • Town of Belville • Town of Leland • Town of Navassa • County of Brunswick
County of Pender • Cape Fear Public Transportation Authority • North Carolina Department of Transportation

Scoring Methodology for Ranking Public Transportation Projects

Scale	Goal	Criteria:	Attribute:	Score
20	Goal A – Build Community and Political Support for Public Transportation	Amenity conditions	Stop has no shelter, lighting, bike rack, or bench (2.5 points each)	10
		Emissions	Reduces emissions through alternative fuel source	5
		Data collection	Improves data collection, analysis, or technology	5
35	Goal B – Enhance Economic Development Opportunities and Quality of Life through Public Transportation Services	Density	Route or amenity Density Greater than 2341 persons/sq. mile	5
		Point of Interest	Route or amenity improvement within 1/4 mile of work, school, or medical (6,8,10)	10
		Frequency	Improvement increases frequency or efficiency	10
		Point of Interest	Route or amenity improvement within 1/4 mile Park, Grocery, shopping (6,8,10)	10
20	Goal C – Broaden Base of Public Transportation Ridership in both Rural and Urban Areas	Age/No Car	Route or amenity in location with 26% of population over 65 or over 8% of population with no car (5 points each)	10
		Income	Route or amenity in location with over 27% of population in poverty	10
25	Goal D – Connect Public Transportation Routes/Services with Physical Infrastructure	Connectivity	Route or amenity connected to existing pedestrian network	5
		ADA	Improves safety or ADA accessibility at stops	10
		Park & Ride	Extended Route hours or Park and Ride	10

To create a ranked list of the proposed public transportation projects, the subcommittee developed criteria by assigning a value to objective attributes with identifiable and measurable metrics. To maintain transparency of the process, it was important that metrics were data driven. This process should allow for replication of point assignments using available quantitative and qualitative datasets.

Public transportation projects were awarded the score value based on a “yes/no” or “presence/absence” judgement after reviewing the project scope and description developed by the subcommittee. Projects meeting the metric of any single attribute or combination of multiple attributes listed for a given criteria qualify for the points assigned.

Point totals were used to sort projects into a ranked list. 100 points were potentially available for all projects, the total score of each project was normalized to create a ranked list. The ranked list will need to be further evaluated and revised based on funding eligibility and regional needs.

The subcommittee recognized the importance of future analysis through the NCDOT Prioritization process and potential for project refinement by WMPO jurisdictions, partners, and community stakeholders.



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Rank	Project Name	Project Type	To/From (Location Description)	MAP ID
1	Wilmington Multimodal Transportation Center	Facility	2.5 million, being constructed	PT - 82
2	Independence Blvd at Park Ave	Amenity Upgrades	bench, trash, bike, lighting	PT - 40
3	Sigmon Rd at Walmart (Wilmington)	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 17
4	Military Cutoff Rd at Old Macumber Station Rd	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 33
5	Dawson St at 9th St	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 65
6	17th St at Food Lion Plaza	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 94
7	Route 301 separate bus with increased frequency and extended hours	Route	additional bus for increased frequency, operational costs	PT - 146
8	Extend trolley service frequency	Route	2 additional trolleys for more frequency, operational costs	PT - 135
9	Creekwood on Demand Service off peak hours	Route	additional hours, operational costs, no new buses potentially	PT - 159
10	Rush hour service on high ridership routes 8-11am and 3-5pm(108)	Route	1 additional bus for increased frequency, operational costs	PT - 148
11	earlier weekday service on high ridership routes (108)	Route	1 additional bus for increased frequency, operational costs	PT - 152
12	Market St & Kerr Ave	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 15
13	Randall Pkwy at Brailsford Dr	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 28
14	Market St at Covil Ave	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 29
15	S 5th St at Dawson St	Amenity Upgrades	bench, trash, bike, lighting	PT - 73
16	S 10th St at Mearns St	Amenity Upgrades	bench, trash, bike, lighting	PT - 74

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17	Route 104, 30 minute frequency	Route	additional bus for increased frequency, operational costs	PT - 9
18	Rush hour service on high ridership routes 8-11am and 3-5pm(105)	Route	1 additional bus for increased frequency, operational costs	PT - 147
19	Rush hour service on high ridership routes 8-11am and 3-5pm (201)	Route	1 additional bus for increased frequency, operational costs	PT - 149
20	Earlier weekday service on high ridership routes (105)	Route	1 additional bus for increased frequency, operational costs	PT - 151
21	earlier weekday service on high ridership routes (201)	Route	1 additional bus for increased frequency, operational costs	PT - 153
22	Oleander Dr at Hawthorne Dr	Amenity Upgrades	bench, trash, bike, lighting	PT - 21
23	Rush hour service on high ridership routes 8-11am and 3-5pm(205)	Route	1 additional bus for increased frequency, operational costs	PT - 150
24	earlier weekday service on high ridership routes (205)	Route	1 additional bus for increased frequency, operational costs	PT - 154
25	Wellington Ave at Flint Dr	Amenity Upgrades	bench, trash, bike, lighting	PT - 79
26	Pleasure Island Trolley, with bus stop at ferry, and amenities	Route	additional trolley, operational costs	PT - 157
27	Greenfield St at S 13th St	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 80
28	NHC Gvt Center at Government Center Dr	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 26
29	Wellington Ave at Silver Stream Ln	Amenity Upgrades	bench, trash, bike, lighting	PT - 77
30	Route 302 Masonboro loop rd. hourly service (Mon-Sat 6-9, Sun 9-6) heavy duty bus	Route	additional bus for hourly service, operational costs	PT - 5
31	Upgrade route 107 to hourly to align with route 301	Route	additional frequency, operational costs, no new buses potentially	PT - 155
32	S College & Randall Pkwy	Amenity Upgrades	shelter, bench, trash, bike	PT - 27
33	S 5th St at Castle St	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 64
34	Village Road at Food Lion	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 91
35	Carolina Beach Rd at Roses	Amenity Upgrades	shelter, bench, trash, bike	PT - 44
36	Wellington at 17th St	Amenity Upgrades	bench, trash, bike	PT - 90
37	Route 112 Porters Neck (Mon-Sat 6-9, Sun 9-6) heavy duty bus	Route	additional bus for new route, operational costs	PT - 8

38	Market St at Lullwater Dr	Amenity Upgrades	shelter, bench, trash, bike	PT - 16
39	S 16th St at Wright St	Amenity Upgrades	shelter, bench, trash, bike	PT - 35
40	New Centre Dr at Bob King Buick	Amenity Upgrades	bench, trash, bike	PT - 30
41	Wilshire Blvd at Berkshires at Pelican Cove	Amenity Upgrades	bench, trash, bike	PT - 41
42	S College Rd (SB) at University Dr	Amenity Upgrades	shelter, bench, trash, bike	PT - 18
43	S College Rd at Wilshire Blvd	Amenity Upgrades	shelter, bench, trash, bike	PT - 19
44	Carolina Beach Rd at S College Rd	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 99
45	US17 at Walmart	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 104
46	Galleria Mall	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 118
47	Mayfaire Mall	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 119
48	Satellite beach parking with bus station hub	Park and Ride	No existing Parking available, potential future development, signage and service would need to be added	PT - 132
49	Marion Dr at Rutledge Dr	Amenity Upgrades	bench, trash, bike, lighting	PT - 45
50	Route 204 extended service to 9pm and weekends	Route	additional frequency, operational costs, no new buses potentially	PT - 156
51	Oleander Dr at Giles Ave	Amenity Upgrades	bench, trash, bike, lighting	PT - 22
52	S College Rd (NB) at University Dr	Amenity Upgrades	shelter, bench, trash, bike	PT - 25
53	Carolina Beach Rd at Tennessee Ave (BoA)	Amenity Upgrades	shelter, bench, trash, bike	PT - 53
54	Market St at Porters Neck Rd	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 103
55	I-140 at US17	Park and Ride	No existing Parking available, potential future development, signage and service would need to be added	PT - 112
56	military cutoff rd high density local route	Route	additional route, operational costs, not full sized	PT - 162
57	Nixon St at N 5th St	Amenity Upgrades	bench	PT - 13

58	Public Transportation to and from the Ferry	Route	1 trolley for carolina beach to fort fisher, operational costs	PT - 140
59	I-40 at Cape Fear Community College N Campus	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 100
60	WAVE Central Station - Forden Station	Park and Ride	Not enough existing Parking available, potential future development, signage and service would need to be added	PT - 107
61	Shipyard Boulevard at Commons Dr	Amenity Upgrades	bench, trash, bike, lighting	PT - 37
62	Lake Ave at S College Rd	Amenity Upgrades	bench, trash, bike, lighting	PT - 66
63	Wrightsville Beach on Demand (shuttle route) \$200,000 operation cost	Route	2 or 3 shuttle buses, operational costs	PT - 124
64	Princess Place Dr at Montgomery Ave	Amenity Upgrades	shelter, bench, trash, bike	PT - 10
65	Rankin St at 11th St	Amenity Upgrades	shelter, bench, trash, bike	PT - 87
66	Carolina Beach Rd at Snow's Cut Bridge	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 98
67	Market St at Middle Sound Loop Rd	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 102
68	US17 at Island Creek Rd (NC210)	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 105
69	Wellington Ave at Troy Dr	Amenity Upgrades	bench, trash, bike	PT - 78
70	Shipyard Blvd at S 41st St	Amenity Upgrades	shelter, bench, trash, bike	PT - 67
71	solar lights at bus stops	Amenity Upgrades	costs of solar lights amenity at 50 percent of bus stops identified in this list	PT - 161
72	Nixon St & N 8th St	Amenity Upgrades	bench (check)	PT - 12
73	Wilshire Blvd at S Kerr Ave	Amenity Upgrades	bench, trash, bike	PT - 42
74	Service To River Lights development	Route	additional bus for new route, operational costs	PT - 158
75	Gordon Rd at Food Lion	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 34
76	Independence Blvd at Canterbury Dr	Amenity Upgrades	shelter, bench, trash, bike	PT - 38
77	Market St at N 16th St	Amenity Upgrades	shelter, bench, trash, bike	PT - 47
78	Cypress Grove Dr at Doctors Cir	Amenity Upgrades	shelter, bench, trash, bike	PT - 75

79	Medical Center Dr at Delaney Radiologists	Amenity Upgrades	shelter, bench, trash, bike	PT - 76
80	5th St at Ann St	Amenity Upgrades	bench, trash, bike	PT - 70
81	Fairfield Park	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 121
82	S 17th St at Glen Meade Rd	Amenity Upgrades	shelter, bench, trash, bike	PT - 36
83	Independence Blvd (Independence mall transfer station)	Amenity Upgrades	shelter, bench, trash, bike	PT - 39
84	Mount Misery Rd at Food Lion	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 56
85	Barclay West	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 120
86	Leland Town Hall	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 123
87	Village Rd & S Navassa Rd	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 57
88	West Gate Dr at Walmart (Leland)	Amenity Upgrades	shelter, bench, trash, bike	PT - 58
89	N Front St Harnett St	Amenity Upgrades	shelter, bench, trash, bike	PT - 59
90	I-140 at US74/76	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 109
91	Shelter needed.	Amenity Upgrades	Create a shelter for public transportation customers at the intersection of Carolina Beach and Golden Rd.	PT - 137
92	Eastwood Rd at Rogersville Rd	Amenity Upgrades	bench, trash, bike, lighting	PT - 31
93	Carl Winner Ave at Carolina Beach Ave N	Amenity Upgrades	shelter, bench, trash, bike	PT - 62
94	N Lake Park Blvd at Town Hall	Amenity Upgrades	shelter, bench, trash, bike	PT - 92
95	US17 at Sidbury Rd	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 114
96	Oleander Dr at Whole Foods	Amenity Upgrades	bench, trash, bike	PT - 20
97	Main St at Church St (Navassa)	Amenity Upgrades	shelter, bench, trash, bike	PT - 55
98	I-40 at Holly Shelter Rd	Park and Ride	No existing Parking available, potential future development, signage and service would need to be added	PT - 101

99	Bus Stop at Market St. Walmart	Route	increase route distance, operational costs,	PT - 126
100	Carolina Beach Rd at Silva Terra Dr	Amenity Upgrades	shelter, bench, trash, bike, lighting	PT - 50
101	Carolina Beach Rd at Independence Blvd	Amenity Upgrades	shelter, bench, trash, bike	PT - 49
102	Carolina Beach Rd at Southern Blvd	Amenity Upgrades	bench, trash, bike	PT - 48
103	US17/74/76 at River Rd (NC133) - Belville	Park and Ride	No existing Parking available, potential future development, signage and service would need to be added	PT - 106
104	16th St at Kidder St	Amenity Upgrades	bench, trash, bike	PT - 88
105	Terminus of Independence Boulevard	Park and Ride	Existing Parking available (10 spaces min), signage and service need to be added	PT - 122
106	Princess Place Dr at N 25th St	Amenity Upgrades	bench	PT - 11
107	Trolley replacements	Vehicle Update	2 trolleys planned up to 6 total by 2025 based on replacements and expansion of routes	PT - 125
108	wifi on buses	Amenity Upgrades	wifi system on community routes	PT - 160
109	automatic passenger counter (APC)	Facility	APC system on each bus and software to process data	PT - 142
110	Modern Fare Collection Service	Facility	AFC using RIFD/ Smart Card	PT - 145
111	US421 at Cowpens Landing Rd	Park and Ride	No existing Parking available, potential future development, signage and service would need to be added	PT - 116
112	Wrightsville Avenue at Jones Rd	Amenity Upgrades	bench, trash, bike	PT - 32
113	Front St at Ann St	Amenity Upgrades	bench, trash, bike	PT - 97
114	Electric Bus investment	Vehicle Update	replace community buses with electric buses at end of lifecycle. Potentially 37 vehicles over 25 years	PT - 136



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Rank	Project Name	Facility Type	To/From (Location Description)	MAP ID
1	Rail Realignment Part B (Alternative 1)	Rail	(Total Route 8.44 miles) see Appendix A-16 in Rail Realignment feasibility study, Technical Report K p. 22	PT - 144
2	Rail Realignment Part B (Alternative 3)	Rail	(Total Route 6.66 miles) see Appendix A-18 in Rail Realignment feasibility study, Technical Report K p. 24	PT - 163
3	Rail Realignment Part B (Alternative 5)	Rail	(Total Route 10.04 miles) see Appendix A-20 in Rail Realignment feasibility study, Technical Report K p. 26	PT - 164
4	Light Rail	Rail	light rail from multi modal center to WMPO boundary along US-17, approximately 13 miles	PT - 139
5	Light Rail	Rail	light rail from multimodal transit center (downtown) to UNCW, approximately 4.4 miles	PT - 1
6	Light Rail system from Downtown to ILM	Rail	light rail from multimodal transit center (downtown) to ILM, approximately 3.2 miles	PT - 7
7	Rail Realignment Part A	Rail	Rail Realignment Feasibility Study pg 18-21	PT - 143

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MEMORANDUM

To: Citizen Advisory Committee Members
From: Katie Moore, Associate Transportation Planner
Subject: Roadway Policies and Ranked Projects

Preliminary Ranking of Proposed Roadway Projects

See Attachment.

Subcommittee Recommendation for 2045 Roadway Policies

- A. Improve known locations and conditions that contribute to higher incident rate and/or injury severity rate within crash data on existing roadways.
- B. Encourage suitability of roadway infrastructure design relative to adjacent land uses and functional characteristics of the route.
- C. Transportation planning and development, expansion, and investment in transportation facilities should be coordinated with land use planning.
- D. Organize and communicate funding mechanisms available to improve local roadways impacted by land use and development activity.
- E. Support the integration of appropriate multimodal network facilities into roadway project design based on adopted plans and policies of WMPO counties and municipalities.
- F. Seek continued funding to maintain, improve, and expand intelligent transportation systems (ITS) implementation including investment in emerging technology for congestion management.
- G. Enhance coordination between the WMPO and NCDOT to fund critical improvements to the transportation network given the forecasted rate of growth and anticipated future conditions.
- H. Support corridor preservation that is vital to implementing projects by utilizing North Carolina General Assembly identified techniques such as advanced right-of-way acquisition and the filing of transportation corridor maps.

Preliminary Subcommittee Ranking of Roadway Projects

A spreadsheet of all Roadway projects ranked by the subcommittee using the methodology outlined below is included for review. This list does not include projects currently prioritized for programming in the State Transportation Improvement Program (STIP). The memo that includes

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information about these “Carryover Projects” is attached and was reviewed by the subcommittee prior to the project scoring and ranking process.

Scoring Methodology for Ranking Roadway Projects

Scale	Goal	Criteria:	Attribute:	Score
20	Safe	Reduce the rate of crashes	Crash rate (H=10, M=5, Low=3, none=0)	10
		Reduce the severity of crashes	Crash severity in corridor/intersection (K/A=10, B=5, C/PD=3, none=0)	10
15	Efficient	Reduce or maintain rate of mean travel time	Segment V/C % (E/F=10, D=6, C=4, A/B=0)	10
		Reduce vehicle miles traveled	New route/new location for connectivity (Y/N)	5
10	Appropriate	Reduce the vulnerability of bicyclists and pedestrians on existing facilities	Functional classification of existing roadway (Arterial=5, Collector=3, Local=1)	5
			Existing facility BP accommodations (none=5, shoulders=3, sidewalk/bike lane/MUP= 3, existing complete street=0)	5
5	Responsible	Prioritize projects that demonstrate existing community support	Is project in a community adopted plan (Y/N)	5
15	Integrated	Accommodate population growth areas	Projected 2045 Population or Employment growth area (HIGH= 5, MED= 3, LOW= 1 per metric)	10
		Accommodate freight/industrial growth areas	Project located on a corridor for commercial or industrial land uses (Y/N)	5
10	Multimodal	Include bicycle/pedestrian facilities for mobility and access along appropriate corridors	Project located on corridor with bicycle/pedestrian infrastructure or proposed facilities in a WMPO adopted plan (Y/N)	5
		Include accommodations for transit along appropriate corridors	Project located on corridor with existing fixed route service, or a corridor identified for future service expansion (Y/N)	5
15	Sustainable	Prioritize projects for higher-value trips / Leverage regional assets (ports, airports, beaches/tourism, business services, medical centers)	Project is located on a Strategic Transportation Corridor (STC) or STRAHNET Corridor (Y/N)	5
			Project is located on a WMPO CMP defined freight, destination, or tourist corridor (Y/N)	5
			Project is located within 1 mile of a critical facility or 1 mile of a tourist defined POI (Critical facility=5, POI=3, Both bonus +2)	5
10	Innovative	Implement projects that improve the reliability and resiliency of the overall supply chain	Located on or direct access to an interstate, designated future interstate, or US Route (Y/N)	5

		Identify roadway investments that increase capacity without requiring road construction	Will the improvement require roadway construction (Y/N)	5
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To create a ranked list of the proposed Roadway projects, the subcommittee developed criteria by assigning a value to objective attributes with identifiable and measurable metrics. To maintain transparency of the process, it was important that metrics were data driven. This process should allow for replication of point assignments using available quantitative and qualitative datasets.

Roadway projects were awarded the score value based upon measurable data when available. A scale of point values was utilized when possible. The methodology also utilized “yes/no” or “presence/absence” judgement after reviewing the project scope and description developed by the subcommittee.

Point totals were used to sort projects into a ranked list. Although 100 points were potentially available for all projects, the total score of each project relative to 100 points does not represent its value to the region. The ranked list will need to be further evaluated and revised based on funding eligibility and regional needs.

The subcommittee recognized the importance of future analysis through the NCDOT Prioritization process and potential for project refinement by WMPO jurisdictions, partners, and community stakeholders.



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Rank	Project Name	Facility Type	To/From (Location Description)	MAP ID
1	Signal Ethernet Improvements	Technology		RW-216
2	US 117/Shipyard Boulevard Speed Sensors and Warning System	Technology	US421/Carolina Beach Road	RW - 124
3	US 117/NC132/College Rd and Wrightsville Avenue	Intersection		RW - 142
4	US 17 BUS/Market Street Road Diet	Reconfiguration	3rd Street	RW - 218
5	US 17 BUS/Market Street Road Diet (I of II)	Reconfiguration	3rd Street	RW - 219
6	Old Fayetteville Rd Interchange	Interchange		RW-176
7	US 17/76/Oleander Dr Access Management	Access Management	Dawson St	RW-17
8	US 17 BUS/Market Street Road Diet (II of II)	Reconfiguration	16th	RW - 220
9	Kerr Avenue Extension II	Extension	US 17/76/Oleander Dr	RW-215
10	US 17/76/Dawson Street Streetscape Improvements	Streetscape	US17BUS/South 3rd Street	RW - 92
11	US 17 to NC 133 Connector Rd	Connection	US 17	RW-106
12	Airlie Dr./Eastwood Rd. Intersection Improvements	Intersection		RW - 214
13	Dogwood Lane Extension	Extension	Wrightsville Avenue	RW - 83
14	US 17/74/76/Causeway Improvements Phase 2		Hwy 421	RW - 20
15	US 76/Cape Fear Memorial Bridge Replacement	Bridge Replacement	3rd Street	RW - 127

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16	Internal Port Access Road	Connection	Greenfield Street	Shipyard Boulevard	RW - 115
17	Independence Blvd Access Management	Access Management	US 421/Carolina Beach Road	Randall Parkway	RW - 223
18	Basin Street Extension	Extension	Old Fayetteville Road	Village Road	RW - 77
19	US 17/76/Wooster Street Streetscape Improvements	Streetscape	US17BUS/South 3rd Street	US76/Oleander Drive	RW - 93
20	US 421/Snow's Cut Bridge Replacement	Bridge Replacement	SR 1100/River Road	Access Road	RW - 221
21	Burnett Blvd Widening	Widening	Myers Street	US 421/Carolina Beach Rd	RW-123
22	SR 1438/Lanvale Road NE Widening	Widening	US 17	US 76	RW - 7
23	Greenville Loop Road Widening	Widening	Pine Grove Drive	US76/Oleander Drive	RW - 102
24	Salisbury Street & Causeway Drive Roundabout	Intersection			RW - 202
25	NC 133/River Rd Widening	Widening	US 17/74/76	Rabon Way SE	RW-51
26	US 74/76/Heide Trask Bridge Replacement	Bridge Replacement	Airlie Rd	Causeway Dr	RW - 5
27	Blue Clay Road Widening	Widening	N Kerr Ave	US 117	RW - 26
28	SR 1100/River Rd Widening	Widening	Independence Blvd	US 421/Carolina Beach Rd	RW-61
29	US 117/NC 133/Castle Hayne Road Streetscape Improvements	Streetscape	NE Cape Fear River	US 117 /NC 132/College Rd.	RW - 94
30	Godfrey Creek Road Extension	Extension	Godfrey Creek	Saint Johns Church Rd	RW - 13
31	Center Drive Extension Segment 1	Extension	Washington Acres Rd	About 600' east of US 17 along whitebridge Rd	RW - 29
32	Center Drive Extension Segment 2	Extension	About 600' east of US 17 along Whitebridge Road	A point 800' east of us 17 near Lark Lane	RW - 30
33	Center Drive Extension Segment 3	Extension	Roughly 800' east of US 17 near Lark Lane	Roughly 1,000' east of US 17 along Scotts Hill Lopp Road	RW - 31
34	US 17 BUS/NC 140 & US 17 Intersection	Intersection			RW-186

35	SR 1100/River Road Realignment	Realignment	US 117/Shipyard Blvd	Raleigh Street	RW-55
36	SR 1561/Sloop Point Rd Widening	Widening	US 17	Sloop Point Rd Terminus	RW-18
37	SR 1572/Sidbury Road Widening	Widening	Blue Clay Rd	US 17	RW - 23
38	SR 1472/Village Road Widening	Widening	Old Fayetteville Road	Lanvale Road	RW - 73
39	Harrison Creek Road Extension Segment 3	Extension	US 17	Holiday Dr Extension	RW-35
40	US 74/76 Upgrade		SR 1426/Mt Misery Rd	WMPO Boundary	RW-41
41	Plantation Road Extension	Extension	Military Cutoff Extension	US 17/Market Street	RW-57
42	Blue Clay Rd Interchange	Interchange			RW-181
43	Murrayville Road Widening and Extension	Widening/Extension	US 117 /NC 132/College Rd.	US 17	RW - 99
44	US 421 and US 17/74/76 Merge				RW - 226
45	US 17/76/Bradley Creek Bridge Replacement	Bridge Replacement	Bar Harbor Dr	Boathouse Rd	RW - 1
46	Independence Blvd Road Widening	Widening	SR 1100/River Road	US 421/Carolina Beach Road	RW - 222
47	Pine Grove Drive Widening	Widening	US 17/76/Oleander Drive	Masonboro Loop Road	RW - 224
48	Burnett Boulevard Realignment		Southern Blvd	River Road	RW-212
49	Murrayville Rd and I-40 Interchange	Interchange			RW - 225
50	SR 1002/Holly Shelter Road Widening	Widening	I 40	NC 210	RW - 24
51	US 17 Superstreet (Brunswick County)		Carol Lynn Rd.	WMPO Boundary	RW - 42
52	NC 210 Widening	Widening	WMPO Boundary	US 17	RW - 97
53	SR 1100/River Road Realignment		Independence Boulevard	Raleigh Street	RW-117
54	Navaho Trail and Masonboro Loop Rd. Roundabout (northern intersection)	Intersection			RW - 129
55	US 17 Superstreet (Hampstead)		Sloop Point Road	WMPO Boundary	RW - 60
56	NC 133 Extension w/ I-40 with interchange	Extension/Interchange	133	I-40	RW - 3
57	SR 1492/Myrtle Grove Road Widening	Widening	Masonboro Loop Rd.	US 421/Carolina Beach Road	RW - 16
58	SR 1521/Piner Road Improvements and Intersection Realignment	Intersection	S. College Rd	Myrtle Grove Rd	RW - 25

59	Myrtle Grove Rd/Piner Rd/Masonboro Loop Rd Roundabouts	Intersection			RW-141
60	Mohican Trail & Masonboro Loop Rd Roundabout	Intersection			RW - 191
61	Navaho Trail and Masonboro Loop Rd. Roundabout (southern intersection)	Intersection			RW - 192
62	US74/Salisbury Street & Lumina Avenue Roundabout	Intersection			RW - 203
63	US74/Salisbury Street & Lumina Avenue Streetscape	Streetscape			RW - 227
64	Old Fayetteville Road NE Widening	Widening	Village Road	US74/76/Andrew Jackson Highway	RW - 78
65	Lanvale Road and Old Fayetteville Road Intersection Improvements	Intersection			RW - 160
66	New Centre Drive Extension	Extension	New Centre Dr Terminus	Clear Run Dr	RW - 10
67	US 117 and NC 210	Intersection			RW - 137
68	Waynick/Lumina/Causeway	Intersection/Interchange			RW - 213
69	SR 1569/Hoover Road Widening	Widening	US 17	Stacey Greg Rd	RW - 6
70	SR 1002/Holly Shelter Road to SR 1572/Sidbury Road Connection		Sidbury Rd	Holly Shelter	RW - 8
71	NC 210& Island Creek Rd Intersection	Intersection			RW-175
72	Blueberry Road Widening	Widening	US 421	NC 210	RW - 76
73	Sidbury Road/Hampstead Bypass Interchange	Interchange			RW - 166
74	NC 87/US 17 S Overpass and Interchange at Zion Church Road	Interchange	NC 87	Zion Church Rd	RW - 22
75	NC 210 and NC 133	Intersection			RW - 136



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MEMORANDUM

To: Roadway Modal Subcommittee Members
From: Abby Lorenzo, Senior Transportation Planner
Date: November 28, 2018
Subject: Roadway Carryover Projects

The following are projects programmed to receive funding in the 2018-2027 State Transportation Improvement Program (STIP). All projects are considered committed for funding with the exceptions of the projects highlighted in yellow. These projects will be considered committed also if programmed for right of way/utilities or construction funding in the first five years of the 2020-2029 STIP.

RW-ID	Project	STIP #
RW-39	Hampstead Bypass	R-3300
RW - 43	NC 133/Castle Hayne Road Widening	U-5863
RW - 184	US 76 (Oleander Dr) and NC 132 (College Rd) Interchange	U-5704
RW - 47	US17BUS/Market Street Access Management	U-4902
RW - 48	US17BUS/Market Street Access Management	U-4902
RW - 49	US17BUS/Market Street Access Management	U-4902
RW - 53	US421/Carolina Beach Road Widening and intersection improvements	U-5790
RW - 65	US421/Front Street Widening	U-5734
RW - 66	US421/Carolina Beach Road Upgrade	U-5729
RW - 68	US17BUS/Market Street Road Diet	U-5869
RW - 74	Military Cutoff Road Extension	U-4751
RW - 75	Independence Boulevard Extension	U-4434
RW - 79	US17 Superstreet	U-5732
RW - 126	I-140 Wilmington Bypass	R-2633
RW - 180	Isabel Holmes Bridge Flyovers	U-5731
RW-183	US74/MLK & College Rd Intersection	U-5792

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RW - 185	US74/Eastwood Road & Military Cutoff Road	U-5710
RW - 210	Cape Fear Crossing - Unfunded \$1161641	U-4738
RW - 182	US74/Eastwood Road & Market Street Interchange	U-5880
RW - 211	Market Street Access Managment Improvements Phase II	U-4902C
RW - 212	Market Street Access Managment Improvements Phase IV	U-4902D
RW - 213	Market Street Access Managment Improvements Phase II	U-4902B
RW-125	Kerr Avenue Widening	U-3338
RW-80	College Road access management New Centre to US 421	U-5702
RW-56	North 23rd Street widen US 74 to NC 133	U-6083
RW-71	Kerr Avenue widening Patrick to Wrightsville	U-6080
RW-196	NC 133 and North 23rd Street roundabout	U-5954
RW-50	College Road upgrade roadway Gordon to New Centre Dr	U-5881
RW-72	NC 133 Modernize Roadway	U-5914
RW-52	New Route 23rd St to 26th St	U-5926
RW-190	US 76 Oleander Dr intersection Greenville Loop and Greenville Ave	U-6128



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MEMORANDUM

To: MPO Board members
From: Katie Moore, Associate Transportation Planner
Date: March 19, 2019 (revised approval language April 1, 2019)
Subject: TCC and CAC Recommended Alternative Funding Sources

On Wednesday, March 13, 2019 the Financial Forecast and Potential Funding presentation was made by Leta Huntsinger (WSP) to the Technical Coordinating Committee (TCC). Members of the TCC engaged in a discussion regarding the presentation and the memo's prepared by WSP. Additionally, the TCC reviewed recommendations from the Citizen Advisory Committee (CAC) which included adding several financing mechanisms to the recommended alternative funding sources identified by WSP.

The TCC expressed interest in advancing the recommendations of the CAC and identified two more undefined sources: bicycle registration tax and STI Incentives (local funding participation, bonus allocations, and/or payback options). The viability of the undefined sources for alternative is unknown at this time. If desired by the MPO Board, WSP can conduct further research to determine the legality and potential eligibility of these sources for transportation funding.

In total, the TCC and CAC recommended the 5 (five) sources identified by WSP, known project specific funding sources, and 6 (six) sources that are undefined with unknown feasibility.

Recommended by WSP:

1. Quarter-cent Local Option Sales Tax
2. Quarter-cent Local Option Sales Tax for Transit
3. Vehicle Registration Fees
4. Motor Vehicle License Tax
5. Vehicle Rental Tax

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Known project specific funding sources:

1. Municipal Bonds
2. Public-Private Partnerships
3. Tolling (Turnpike Authority)
4. Recurring and Revolving Grants and Loans

Sources that are undefined:

1. Tourist/Visitor Fee such as VMT for use of roadways
2. Additional Local Room Occupancy Tax
3. Marina or Dockage Fee
4. Development Impact Fee
5. Bicycle and Scooter Registration Fee (NC H157 introduced February 2019)
6. STI Incentives for Local Funding Participation (G.S. Section 136-189.11 Transportation Investment Strategy Formula subsection (f) Incentives for Local Funding and Highway Tolling)

APPROVAL: WMPO Board approved the alternative funding source recommendations of the TCC and CAC. This recommendation includes requesting WSP to conduct further research regarding legality and potential eligibility of the undefined sources.