



SUMTER 2050

SUATS MPO LONG RANGE
TRANSPORTATION PLAN

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SUATS

Sumter Area Transportation Study

Metropolitan Planning Organization

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Acknowledgments

Development of the SUATS Long-Range Transportation Plan involved numerous stakeholders, including the SUATS Technical Committee, Policy Committee, City and County staff, and the South Carolina Department of Transportation (SCDOT).

The general public also provided input for this plan through several online surveys, pop-up events, and meetings held both specifically for this LRTP itself as well as for recent Walk+Bike planning, transit planning, and comprehensive planning. All of their efforts are greatly appreciated.

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EXECUTIVE SUMMARY

This Long-Range Transportation Plan (LRTP) for the Sumter Metro Area outlines a regional strategy for a connected transportation system that accommodates the region's existing and future mobility needs.

The Sumter LRTP is a financially constrained plan, meaning it identifies projects and programs that can reasonably be implemented with anticipated funding levels through the year 2050.

In response to federal mandates and the expressed wishes of local residents, the LRTP addresses all modes of transportation in some way, including cars, trucks, bicycles, walking, transit, air, and rail modes.

REASON FOR THE PLAN

SUATS updates the LRTP every 5 years. The 2050 LRTP is the first major update to the region's LRTP since 2013. The plan fulfills federal requirements and serves as the region's transportation vision. It characterizes current and future transportation needs, outlines the region's long-range transportation goals, identifies multimodal transportation strategies to address needs through the year 2050, and documents long-term opportunities beyond current funding capabilities.

Federal funding cannot be allocated to transportation projects unless they are included in the LRTP's financially constrained plan. In other words, SUATS cannot plan to spend more money than it expects to receive, and a project must be included on the LRTP either via the plan's original adoption or via a properly processed amendment in order to be funded using federal transportation dollars.

STUDY AREA

The SUATS Study Area covers approximately 200 square miles of Sumter County, including the entire limits of the City of Sumter.

PLANNING PROCESS

The Sumter 2050 process began with a review of current socioeconomic and transportation conditions. A vision and goals were then established, expected revenues forecasted through 2050, and a project prioritization matrix developed. Then, specific corridor and point improvement opportunities were identified and ranked in accordance with the prioritization matrix, and those projects receiving the highest ranking within available resources were placed in a financially constrained plan. This financially constrained plan provides a blueprint of transportation projects through the year 2050 and will be re-evaluated in 5 years.

PUBLIC ENGAGEMENT

As part of the 2050 LRTP, SUATS staff engaged municipal and county staff, elected officials, South Carolina Department of Transportation (SCDOT), Federal Highway Administration (FHWA), state and federal agencies, public agencies, advocacy groups, community leaders, and the general public in a variety of ways.

Engagement for the plan included 4 public information sessions and workshops, 8 small group and individual interviews, 5 separate public surveys, and 4 meetings of the SUATS Technical Committee

GOALS

The areas of focus below represent 6 interrelated goals that conform to national, state, and regional long-range planning priorities. The goals, which reflect the region's transportation needs and desires, provide direction to the planning process, and help inform the prioritization of recommendations.

CULTURE AND ENVIRONMENT

Minimize environmental impacts created by transportation systems by utilizing planning tools to preserve and promote natural assets.

GROWTH AND DEVELOPMENT

Create a system of interconnected streets and paths by developing a plan that supports existing and future development.

ECONOMIC VITALITY

Support the local economy by making it easier to move people and freight in the area while maximizing benefits and minimizing costs.

Safety and Security

Provide and promote a safe transportation system for all users by implementing best practices in Complete Street design.

Network Preservation

Ensure the quality of the current network is upheld to provide robust service to residential, commercial, industrial, and military uses.

Mobility and Accessibility

Provide a balanced transportation system that makes it easier to walk, ride a bike, and take transit by implementing traffic calming and developing safe corridors.

ROADWAY RECOMMENDATIONS

Sumter's transportation system must strike a balance between serving the mobility needs of existing residents, businesses, and visitors and planning for the region's growth and economic wellbeing. As the SUATS area grows, it will face a continued rise in travel demand, placing pressure on the roadway network to accommodate more trips each year. A balanced approach plans for the future through a mix of operational improvements and active transportation projects that improve safety and reliability for all users.

The 2050 roadway recommendations are a crucial component of building and maintaining a safe, efficient, and accessible network. An existing network assessment allowed the 2050 LRTP team to fully understand the region's current challenges and to be better stewards of limited resources.

In total, the 2050 LRTP identifies:

- **57** corridor improvements
- **35** intersection improvements

These projects were identified in consultation with local staff and the public and are based on safety, operational, and/or congestion concerns. The exact scope of many improvements identified herein will be further refined as projects move forward in the funding cycle.

Other Roadway Recommendations:

- Safety improvements toolbox.
- Access management toolbox.
- Connectivity best practices.

PROJECT PRIORITIZATION

Each roadway project was scored based on an Act-114 driven process. The process applies a comparable set of metrics to potential projects in jurisdictions across the state. A project receives an individual score in each category according to its performance in that category. Different project types are ranked against the same criteria, however; each category is weighted differently based on the type of project (e.g. intersection improvement vs. corridor operational improvement), providing each project with a separate "weighted score". Projects are then ranked according to the final scores. For more information on the prioritization and weighting process, see Chapter 7.

- **Environmental Impacts:** based on an assessment of potential impacts to natural, social, and cultural resources.
- **Economic Development:** determined using a 10-factor methodology that assesses the economic development impact of transportation infrastructure projects.
- **Priority network:** based on a project's location in relationship to defined priority networks.
- **Traffic Volume:** based on 2022 Average Annual Daily Traffic (AADT) as collected by SCDOT.
- **Volume to Capacity:** based on Travel Demand Model assessed traffic volumes and associated level of service condition.
- **Complete Streets:** feasibility of including additional bicycle/pedestrian facilities.
- **Safety:** composite that includes crash rate per mile and the total number of crashes over a 5-year period.
- **Geometric Alignment Status:** based on an assessment of the project area's functionality and operational characteristics.
- **Financial Viability:** based on estimated project cost in comparison to the 2024-2033 TIP window.
- **Pavement Quality:** based on pavement condition assessments.

WALK + BIKE RECOMMENDATIONS

The 2050 L RTP envisions a network of active transportation infrastructure that connects all parts of the Sumter community and encourages walking, cycling, and wheeling as common parts of everyday life.

Across the region, people of all ages and abilities should enjoy access to safe, comfortable, and convenient walking and cycling infrastructure and benefit from an enhanced quality of life, healthier lifestyles, greater economic opportunity, and a culture of safety and respect for all transportation users.

The 2050 walk + bike recommendations are a crucial component of building and maintaining a safe, efficient, and accessible multi-modal network.

In total, the 2050 L RTP recommends:

- **59** greenway, sidepath, and sidewalk improvements
- **31** spot improvements

Bicycle Recommendations

The SUATS bicycle network recommendations detail a robust system of facilities that connect communities. The recommendations are divided into two overarching types of facilities: on-street sidewalks, and combined on-and off-street greenways and sidepaths.

In a separate vein, there are additional opportunities for improved on-street

infrastructure to support cycling that may vary depending on surrounding context and corridor type. This may include bike routes, on-street markings, wider paved shoulders, bike lanes, buffered bike lanes, and separated bike lanes/cycle tracks. Off-street infrastructure can be shared-use paths that are used by both cyclists and pedestrians.

Pedestrian Recommendations

The pedestrian network recommends a system of shared-use paths paired with sidewalk priority areas centered around schools and community facilities, as well as making logical connections between existing segments of sidewalk. Shared-use paths double as bicycle infrastructure and connect communities to provide recreational and functional transportation benefits.

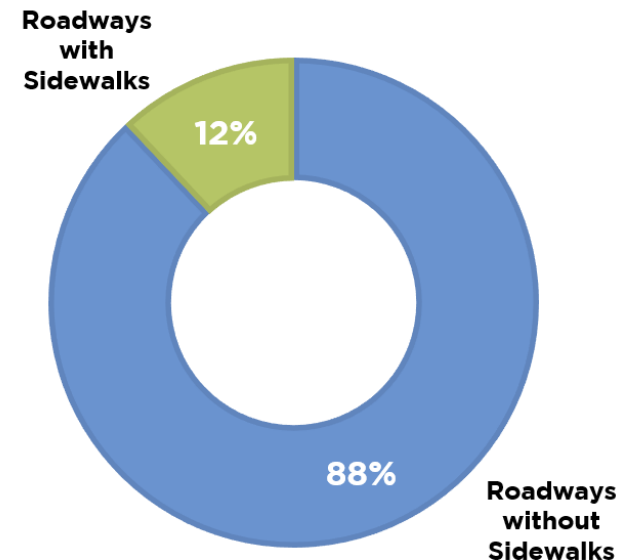
Other Bicycle and Pedestrian Recommendations:

- Program recommendations.
- Design Guidelines.

**There are currently
163.9 miles of sidewalk
in the SUATS MPO**

**Pedestrian and bicycle
crashes represent
nearly 14% of all
fatal and serious injury
crashes in
SUATS MPO**

Percentage of SUATS Roads with Sidewalks



PUBLIC TRANSPORTATION

The Transit element of the 2050 LRTP evaluates recent and on-going transit planning efforts. It recommends policy-based strategies and system-level service improvements to enhance access and mobility for residents throughout the area.

The transit recommendations build upon previous and ongoing planning efforts and evaluate opportunities to create a system that serves existing and future needs of the area.

Priority Routes

Transit in the SUATS area should develop with the goal of serving the needs of the local workforce and the transit-dependent community. Santee-Wateree Regional Transportation Authority's recent planning efforts are a major opportunity to revamp the system with mobility in mind.

By connecting more parts of the community, serving regional activity generators, and developing a comprehensive network that links routes throughout the area, transit can become a viable mobility option that serves the local workforce, employers, and choice riders alike.

The 2050 LRTP identifies priority transit routes that link major employment centers, medical services, and educational centers, while serving the needs of the SUATS population.

Policy Recommendations

- Expand service to connect more communities within the region

- Provide extended service hours that better serve the needs of employers and employees
- Prioritize service to areas that depend on transit as their primary means of mobility and to high growth corridors.

Passenger Rail

SUATS is committed to actively participating in any development of passenger rail service and will remain adaptable as circumstances evolve and opportunities arise. Fortunately, SUATS and its member jurisdictions will have plenty of time to adapt infrastructure and land use policies once any new passenger rail service is announced, as it will take a number of years to implement. In the interim, SUATS is committed to improving the modes that will support regional passenger rail.

FREIGHT

Freight and logistics is a vital building block of any economy, and freight traffic is expected to continue to grow for the foreseeable future. Facilitating critical freight truck and freight rail movement to ensure that infrastructure is in place to efficiently move goods through the region and deliver them to end users is a high priority. Corridor and intersection improvements, roadway maintenance, and traffic mitigation will help priority corridors serve existing and projected freight movements.

These improvements will also help prevent freight traffic from spilling over into unsuitable

areas, yielding a safer environment for all users.

The 2050 LRTP's freight recommendations include:

- State coordination
- Rail crossing improvements
- Regional freight planning
- Industry collaboration

PERFORMANCE MEASURES

As a federal requirement, states must now invest resources in projects to achieve individual targets that will collectively make progress toward national goals. MPOs are also responsible for developing LRTPs and Transportation Improvement Programs (TIP) through a performance-driven, outcome-based approach to planning.

SUATS is now developing its process to meet federal Requirements-including requirements for tracking specific measures and setting targets-and to meet the unique needs of the MPO.

For the 2023 performance period, the MPO has elected to accept and support the State of South Carolina's safety targets for five safety performance measures. More information can be found in Chapter 13.

FINANCIAL PLAN

Projected Regular Federal/State Revenue

SCDOT allocates capital improvement funds to MPOs in the state through a fund known as the Regional Mobility Program (RMP). RMP funding is separate from funding for items such as maintenance, safety, and interstates, which are allocated and prioritized at a statewide level. RMP funding is allocated by SCDOT by leveraging the MPO planning process, including the LRTP and the MPO's Transportation Improvement Program (TIP).

In 2023, the SUATS region received a total of \$5.0 million in RMP funding. This figure represents 80% federal funds and a 20% match, which is provided by SCDOT for most projects, with some limited exceptions that are outlined in SCDOT Commission Policy #3. The 2023

funding amount is expected to remain constant throughout the life of the LRTP. When inflation is considered, this approach will lead to a decline in the region's purchasing power over time.

SUATS has an opportunity to consider how best to allocate these RMP funds during the life of the plan. Based on the areas and projects identified, a regional allocation of RMP funding is detailed below:

- **Roadway Corridors - ~50% RMP Funding**
Projects within the roadway corridor category include new road projects, access management, capacity, road diet, and operational improvement types.
- **Intersections - ~30% RMP funding**
Projects within the intersection category include intersection projects that have been identified to improve safety or capacity. This RMP allocation gives the region added flexibility to focus on its

own priorities, while the state continues to address additional safety concerns using its statewide prioritization method.

- **Walk + Bike - ~20% RMP Funding**
Projects within the bicycle and pedestrian category include on- or off-street projects that are independent of other roadway improvements. This allocation is in addition to potential Transportation Alternatives Program (TAP) funding.

The table below shows the proposed allocation of RMP funding for each category for the three planning horizon-year periods (interim, horizon, and vision).

Projected SUATS Regional Mobility Program (RMP) Modal Splits (2023-2050)

	Roadway Corridors	Roadway Intersections	Walk + Bike
2023-2030	\$ 17,500,000	\$ 10,500,000	\$ 7,000,000
2031-2040	\$ 22,500,000	\$ 13,500,000	\$ 9,000,000
2041-2050	\$ 22,500,000	\$ 13,500,000	\$ 9,000,000
Total	\$ 62,500,000	\$ 37,500,000	\$ 25,000,000
Notes	~50% allocation	~30% allocation	~20% allocation

EXECUTIVE SUMMARY

Projected Regular Local Revenue

The financial plan incorporates an assumption that Sumter County's previous capital penny sales tax, historically known as "Penny for Progress", will be re-established in 2024. Penny for Progress began in 2007 and was reauthorized by voters in 2016 before failing to gain voter reauthorization in 2022 by a narrow margin of 400 votes county-wide.

The initiative is arranged in 7-year cycles. As a means to demonstrate a continued local commitment to support transportation improvements, the program is assumed to be re-established in 2024 and renewed in each subsequent 7-year increment to last through the duration of the plan. In order to determine a reasonable expectation for future funding, sales tax renewals were assumed to remain consistent with the \$100 million in projected funding at the last attempted referendum in 2022. Sales tax funds are assumed to increase with inflation at each renewal, with the 7-year lump sum amount increased each cycle based on previous inflation trends.

Following this assumption, the portion of the initiative's funding previously dedicated to transportation projects (~20% of total revenues, or approximately \$20 million) is assumed to continue.

Within this funding, 80% would be dedicated to roadway capital projects (both corridors and intersections) and 20% would be dedicated to walk + bike capital projects. This funding split is intended to demonstrate a commitment to non-motorized travel in the SUATS MPO area while allocating a large majority of funds to roadway capital projects.

It is important to note that the purpose of the 2050 LRTP is merely to provide a reasonable projection of future funding. The composition of any future sales tax ballot referendum(s) is a topic for deliberation and decision by Sumter County Council, and is ultimately decided by the County's voters via referendum.

SUATS has an opportunity to provide input to Sumter County on how best to allocate potential

local option capital sales tax revenues through 2050. Based on the areas and projects identified, a regional allocation of funding is detailed below:

- **Roadway Corridors - ~50% RMP Funding**
Projects within the roadway corridor category can include new road projects, access management, capacity, road diet, and operational improvement types.
- **Intersections - ~30% RMP funding**
Projects within the intersection category include intersection projects that have been identified to improve safety or capacity.
- **Walk + Bike - ~20% RMP Funding**
Projects within the bicycle and pedestrian category include on- or off-street projects that are independent of other roadway improvements.

The table below shows the proposed allocation of funding for each category for the three planning horizon-year periods (interim, horizon, and vision)

Projected Sumter County Local Option Sales Tax Modal Splits (2023-2050)

	Roadway Corridors	Roadway Intersections	Walk + Bike
2023-2030	\$15,595,557	\$9,357,334	\$6,238,223
2031-2040	\$25,508,258	\$15,304,955	\$10,203,303
2041-2050	\$31,731,012	\$19,038,607	\$12,692,405
Total	\$ 72,834,827	\$ 43,700,896	\$ 29,133,931
Notes	~50% allocation	~30% allocation	~20% allocation

FINANCIALLY-CONSTRAINED PROJECTS

Roadway Corridors

While it would be ideal to implement every project identified in this LRTP, only a portion of the vision can be funded based on expected resources. Because of this, the projects identified during the recommendations phase are divided into a “financially constrained” projects list, and a “non-financially constrained” projects list. This fiscal constraint is a combination of expected Regional Mobility Program funds and anticipated funding from future local sales tax initiatives.

The **57** roadway corridor projects identified were evaluated based on qualitative and quantitative measures during a regional prioritization process. Then, the projects were ranked. The highest ranked projects based on the weighted rankings are identified as candidates for the allocated funding.

The project prioritization process also determined cost estimates for the roadway corridor projects. These estimates capture the full cost of a project, including engineering design, right-of-way acquisition, construction costs, and contingency. While these costs were evaluated using 2023 dollars, they are inflated using an average of historic annual inflation.

All project estimates were inflated to 2050 dollars to project actual costs based on recent experience with rampant cost increases, and the challenging reality of projecting planning level cost estimates prior to finalization of a detailed project purpose, need, and scope.

Remaining projects are categorized as unfunded. These projects should be considered for implementation at a later date, when funding is available, or if a particular development or condition changes (e.g. siting of a new school or other public facility, or development of a major industrial, residential, or commercial project that fundamentally alters the existing transportation network and demand).

Financially Constrained Corridor Projects

Horizon Year Period	Project ID	Facility	From	To	Type	Rank	Planning Level Cost Estimate	Balance of Anticipated Funds
2023 - 2030 (Interim)	S-5	Broad St. (US-378)	Miller Rd.	Warren St.	Safety	1	\$4,733,600	\$130,601,225
	S-6	Camden Hwy. (US-521)	Broad St.	Mason Rd.	Safety	2	\$7,410,800	\$123,190,425
	S-8	N./S. Guignard Dr. (US-521)	Miller Rd.	McCray's Mill Rd.	Safety	3	\$6,984,000	\$116,206,425
	RD-3	E. Liberty St.	N/S. Harvin St.	Boulevard Rd.	Road Diet	4	\$3,375,600	\$112,830,825
	S-4	Broad St. (US-378)	Alice Dr.	Miller Rd.	Safety	5	\$8,186,800	\$104,644,025
2031 - 2040 (Horizon)	S-12	N./S. Lafayette Dr.	Loring Dr.	Divine St.	Safety	6	\$3,181,600	\$101,462,425
	O-2	Bultman Dr./N. Guignard Dr. (US-521)	Broad St.	Miller Rd.	Operational Improvement	7	\$6,751,200	\$94,711,225
	RD-5	W. Liberty St. (SC-768)	N./S. Sumter St.	Alice Dr.	Road Diet	8	\$10,359,600	\$84,351,625
	RD-1	N./S. Washington St.	Warren St.	Dingle St.	Road Diet	9	\$4,888,800	\$79,462,825
	RD-6	E/W. Calhoun St.	N. Washington St.	Commerce St.	Road Diet	10	\$4,132,200	\$75,330,625
	S-2	Broad St. (US-378)	N. Saint Paul's Church Rd.	Stamey Livestock Rd.	Safety	11	\$7,178,000	\$68,152,625
	S-3	Broad St. (US-378)	Stamey Livestock Rd.	Alice Dr.	Safety	12	\$6,091,600	\$62,061,025
	RD-4	N./S. Harvin St.	E. Calhoun St.	CSX Railroad	Road Diet	13	\$3,783,000	\$58,278,025
2041 - 2050 (Vision)	S-13	Manning Ave.	US-15	US-15 to Divine St.	Safety	14	\$4,617,200	\$53,660,825
	S-7	N. Main St. (US-15)	N. Pike Rd.	E. Brewington Rd.	Safety	15	\$10,631,200	\$43,029,625
	O-7	Alice Dr. (S-911)	Broad St.	Wise Dr.	Operational Improvement	16	\$9,544,800	\$33,484,825
	S-9	Robert E. Graham Freeway (US-378/76)	Broad St.	N. Main St.	Safety	17	\$10,010,400	\$23,474,425
	S-10	W. Calhoun St.	N. Washington St.	N. Guignard Dr.	Safety	18	\$4,112,800	\$19,361,625
	S-11	N. Main St. (S-4)	US-15	W. Calhoun St.	Safety	19	\$5,199,200	\$14,162,425
	S-1	Broad St. (US-378)	SC-441	North Saint Paul's Church Rd.	Safety	20	\$12,648,800	\$1,513,625

EXECUTIVE SUMMARY

Intersections

Using a process identical to the one used in the roadway corridors section, **35** intersection-specific projects were identified, ranked, and financially constrained based on available funding. As with the roadway corridor projects, there are many other unfunded projects. If additional funding, such as funds procured through the statewide safety program, are secured for a certain intersection, the financially constrained plan will be adjusted to accommodate another intersection project from the ranked list.

Transit

The SUATS region's public transit needs and recommendations are introduced in Chapter 9. Based on the limited funding available to SUATS at this time and the need for further engagement with Santee-Wateree Regional Transportation Authority (SWRTA) to determine available revenues and local matching funds commitment, this plan does not currently allocate any RMP shares to transit capital projects. Coordination with SWRTA will be needed to determine the best path forward.

Signal Upgrades

SCDOT leads efforts within SUATS region to maintain and enhance signals. As a result, SUATS will work closely with SCDOT to understand how best to prioritize signal improvements and utilize additional federal funding allocations for congestion management.

Financially Constrained Intersection Projects

Horizon Year Period	Project ID	Intersecting Road #1	Intersecting Road #2	Type	Rank	Planning Level Cost Estimate	Balance of Anticipated Funds
2023 - 2030 (Interim)	IS-4	N. Guignard Dr. (US-521)	W. Liberty St. (SC-763)	Safety	1	\$6,790,000	\$74,410,895
	IS-19	US-378	US-521	Safety	2	\$4,850,000	\$69,560,895
	IS-3	Miller Rd. (S-55)	N. Guignard Dr. (US-521)	Safety	3	\$4,850,000	\$64,710,895
2031 - 2040 (Horizon)	IS-2	Broad St. (US-378)	Alice Dr. (S-911)	Safety	4	\$6,790,000	\$57,920,895
	IS-10	E. Liberty St.	S. Lafayette Dr. (US-15)	Safety	5	\$4,850,000	\$53,070,895
	IS-11	Broad St. (US-378)	Wilson Hall Rd.	Safety	6	\$4,850,000	\$48,220,895
	IO-8	Thomas Sumter Hwy (US-521)	Mason Rd.	Capacity	8	\$6,790,000	\$36,580,895
	IS-6	Broad St. (US-378)	Miller Rd. (S-55)	Safety	7	\$4,850,000	\$43,370,895
2041 - 2050 (Vision)	IS-22	Broad St. (US-76)	Wise Dr.	Safety	9	\$4,850,000	\$31,730,895
	IS-5	Broad St. (US-76)	N. Purdy St.	Safety	10	\$4,850,000	\$26,880,895
	IC-4	Broad St. (US-378)	Mason Rd.	Safety	11	\$9,700,000	\$17,180,895
	IO-7	Thomas Sumter Hwy (US-521)	Beckwood Rd.	Operational Improvement	12	\$6,790,000	\$10,390,895
	IS-23	Alice Dr. (S-911)	Miller Rd. (S-55)	Safety	13	\$4,850,000	\$5,540,895
	IS-13	Wedgefield Rd.	Loring Mill Rd.	Safety	14	\$4,850,000	\$690,895

EXECUTIVE SUMMARY

Walk + Bike

The recommendations development process for walking and bicycling projects detailed in Chapter 8 included **22** greenway/sidepath projects, **37** sidewalk projects, and **31** walk+bike specific intersection projects.

Following the process outlined in the future

roadway chapter, the project team took these projects through the same financial constraint exercise as for roadway corridors and intersections and checked them against SCDOT standards for Regional Mobility Program (RMP) eligibility.

Based on an analysis of the combined walk + bike projects and their relative cost estimates, the

corridor projects are projected to receive 95% of available funding, while intersection projects are projected to receive 5% of available funding.

Financially Constrained Walk + Bike Projects

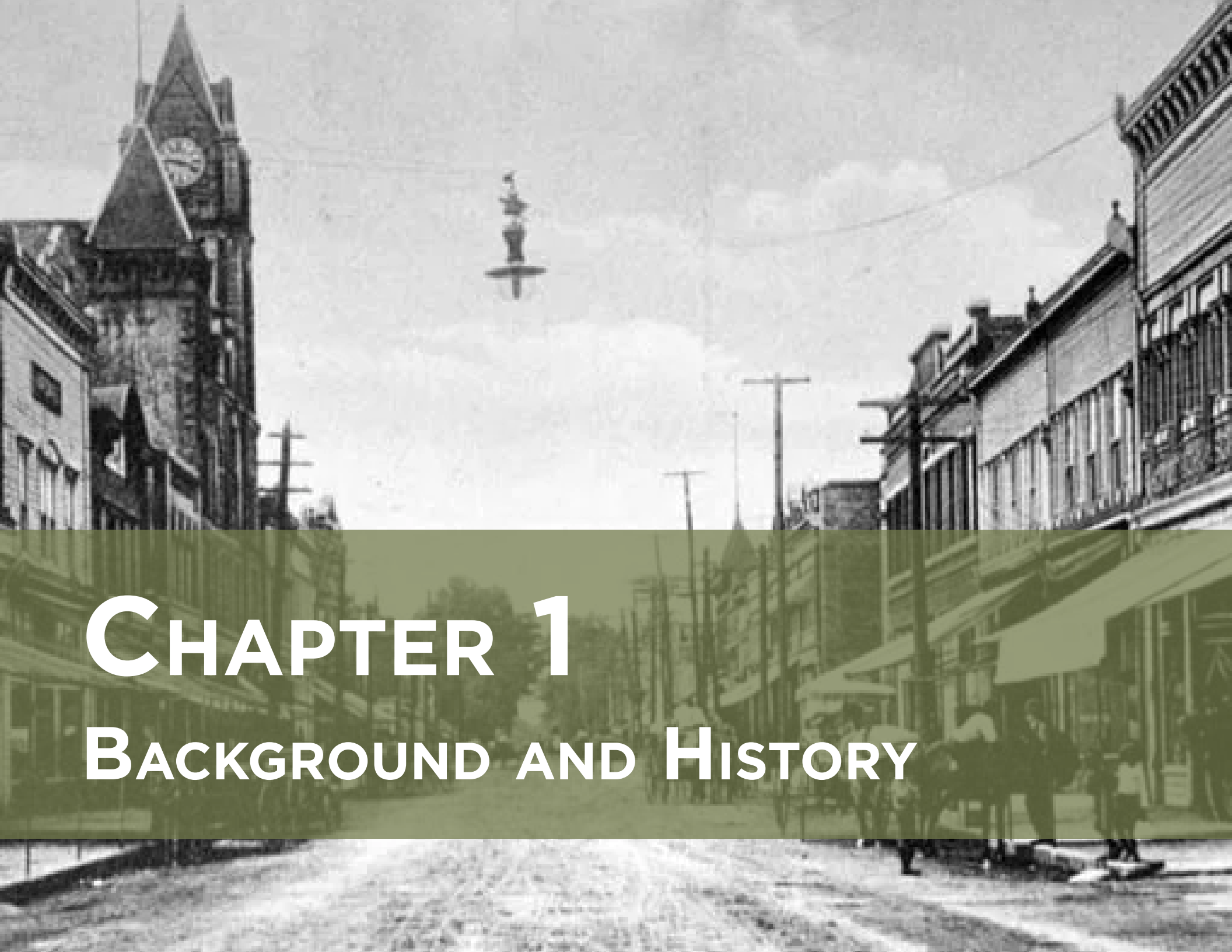
Horizon Year Period	Project ID	Facility	Extents	Type	Rank	Planning Level Cost Estimate	Balance of Anticipated Funds
2023 - 2030 (Interim)	G-3	Lafayette Dr. Greenway	Crosswell Drive Park to James St.	Greenway	1	\$2,071,611	\$52,062,319.64
	SW-3	Miller Rd. Sidewalk (north side)	Broad St. to Oxford St	Sidewalk	2	\$438,236	\$51,624,083.56
	SW-4	Miller Rd. Sidewalk (west side)	Broad St. to Andrena Dr.	Sidewalk	3	\$454,118	\$51,169,965.56
	G-21	N. Lafayette Dr. Sidepath	Sumter Police Department to Crosswell Dr.	Sidepath	4	\$428,123	\$50,741,842.84
	G-11	W. Liberty St. Cycle Track	S. Sumter St. to Alice Dr.	Cycle Track	5	\$9,163,561	\$41,578,282.23
	SW-2	N. Guignard Dr. Sidewalk Widening	Community St. to W Calhoun St	Sidewalk	6	\$381,515	\$41,196,767.27
	SW-7	N. Wise Dr.	Broad St. to N. Pike West	Sidewalk	7	\$471,222	\$40,725,545.68
	P-11	Alice Dr. at Broad St.	Alice Dr. at Broad St.	Intersection	8	\$ 291,000	\$40,434,545.68
	P-24	CCTC Main Campus	N. Guignard Dr. at CCTC	Mid-block	9	\$ 194,000	\$40,240,545.68
	P-10	McCray's Mill Rd. at S. Guignard Dr.	McCray's Mill Rd. at S. Guignard Dr.	Intersection	10	\$ 291,000	\$39,949,545.68
	P-1	Willow Dr. Elementary	Broad St. at Willow Dr. Elementary	Mid-block	11	\$ 194,000	\$39,755,545.68
2031 - 2040 (Horizon)	G-17	Camden Hwy. Sidepath	Market St. to Mason Rd.	Sidepath	12	\$2,181,618	\$37,573,927.50
	SW-25	E. Wesmark Blvd. Sidewalk	Broad St. to S Pike West	Sidepath	13	\$381,166	\$37,192,761.59
	G-19	Pocalla Rd. Sidepath	Cockerill Rd. to Kingsbury Dr.	Sidepath	14	\$2,325,575	\$34,867,186.59
	SW-5	N. Pike West Sidewalk	Porter St. to N Main St.	Sidepath	15	\$418,340	\$34,448,846.53
	G-16	Terry Rd./Mason Rd. Sidepath	Carter Rd. to Camden Hwy.	Sidepath	16	\$2,058,164	\$32,390,682.89
	G-15	Patriot Parkway Sidepath	Lisbon Dr. to Shaw AFB Main Gate	Sidepath	17	\$4,940,386	\$27,450,296.53
	SW-8	N. Wise Dr.	Broad St. to Bultman Dr.	Sidewalk	18	\$136,654	\$27,313,642.27
	SW-12	E Fulton St. Sidewalk	Missouri St. to Silver St.	Sidewalk	19	\$386,751	\$26,926,891.51
	SW-24	Gion St. Sidewalk	Alice Dr. to Broad St.	Sidewalk	20	\$573,843	\$26,353,048.33
	P-12	Loring Mill Rd. at Wise Dr.	Loring Mill Rd. at Wise Dr.	Intersection	21	\$ 291,000	\$26,062,048.33
	P-8	Downtown Library Mid-block Crossing	N. Harvin St. at Sumter County Library	Mid-block	22	\$ 97,000	\$25,965,048.33

EXECUTIVE SUMMARY

Financially Constrained Walk + Bike Projects

Horizon Year Period	Project ID	Facility	Extents	Type	Rank	Planning Level Cost Estimate	Balance of Anticipated Funds
2031 - 2040 (Horizon)	P-14	Sumter Economic Development HQ	W. Liberty St. at Sumter Econ. Dev.	Mid-block	23	\$ 145,500	\$25,819,548.33
	P-22	N Wise Drive Mid-block Crossing	N. Wise Dr. at Wise Dr. Bridge	Mid-block	24	\$ 194,000	\$25,625,548.33
	P-2	Alice Dr. Elementary	Alice Dr. at Alice Dr. Elementary	Intersection	25	\$ 194,000	\$25,431,548.33
2041 - 2050 (Vision)	G-2	Turkey Creek Greenway	Crosswell Drive Park to Manhattan Ave.	Greenway	26	\$18,689,953	\$6,741,595.68
	G-18	Manning Rd./US-521 Sidepath	Aull St. to Pocalla Rd.	Sidepath	27	\$3,763,600	\$2,977,995.68
	SW-32	Carolina Ave. Sidewalk	Broad St. to S. Pike West	Sidewalk	28	\$776,643	\$2,201,352.69
	SW-36	Mitchell St. Sidewalk	N. Lafayette Dr to N Main St.	Sidewalk	29	\$107,334	\$2,094,018.88
	SW-6	N. Pike West Sidewalk	Clara Louise Kellogg Dr to N Wise Dr.	Sidewalk	30	\$342,421	\$1,751,597.86
	SW-14	Boulevard Rd. Sidewalk	E. Red Bay Rd. to Fleming St.	Sidewalk	31	\$715,733	\$1,035,864.62
	SW-19	W Calhoun St. Sidewalk	Winn St. to N Guignard Dr.	Sidewalk	32	\$207,687	\$828,178.06
	P-15	Liberty Center Mid-block Crossing	W. Liberty St. at Liberty Center	Mid-block	41	\$ 145,500	\$682,678.06
	P-21	N. Washington St. Mid-block Crossing	N. Washington St. at Hospital	Mid-block	42	\$ 194,000	\$488,678.06
	P-20	JMBC Mid-block Crossing	Manning Ave. at JMBC	Mid-block	43	\$ 145,500	\$343,178.06
	P-17	Patriot Park Mid-block Crossing	Patriot Pkwy. at Patriot Park Entrance	Mid-block	44	\$ 194,000	\$149,178.06

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CHAPTER 1

BACKGROUND AND HISTORY



CHAPTER 1

NATIVE AND COLONIST ERAS

THE WAR FOR INDEPENDENCE

TRANSPORTATION AND CULTURE

THE CIVIL WAR AND RECONSTRUCTION

COMMUNITY ADVANCEMENT, TRANSPORTATION IMPROVEMENTS, AND ECONOMIC DEVELOPMENT

SHAW AIR FORCE BASE AND THE GROWTH OF THE MILITARY COMMUNITY

TURN OF THE MILLENNIUM

LOOKING BACK AND MOVING FORWARD

BACKGROUND AND HISTORY

Located near the geographic center of South Carolina, Sumter is situated in the “High Hills of the Santee”. A rich history of native communities, local conflict, and economic growth has provided the environment which has allowed Sumter to become the community it is today.

NATIVE AND COLONIST ERAS

Long before European settlers moved to the banks of the Wateree River, Native Americans populated the surrounding countryside. The present day Wateree and Santee Rivers are named for the local tribes that lived on the land. English speaking explorers first encountered the tribes in 1567, but it would be a century before their lives would be documented by European immigrants. A war in 1715 between the native tribes and foreign settlers signaled the end of Native American control in the area that would become Sumter.

Only a few decades passed before townships developed inland to protect the burgeoning coastal settlement at Charleston. One of the earliest public roads, designated in 1753, started as a path through the wilderness connecting these isolated townships. For the early settlers, traveling by river was easiest though far from ideal. The lack of access to the area hindered settlement efforts, and in 1758, thirty-eight pioneers signed a petition requesting new roads.

In addition to a lack of transportation infrastructure, other difficulties faced the area's early inhabitants. Settlers cleared the land of large trees, built shelter, hunted, fished, and prepared the soil for growing corn, wheat, tobacco, and indigo. Life in the midlands remained simple but hard through the years leading up to the fight for independence.

THE WAR FOR INDEPENDENCE

The City and County of Sumter were named in honor of General Thomas Sumter, the “Fighting Gamecock” or “Gamecock General” of the American Revolution who took an interest in local issues. While few events in the War of Independence took place in the area, the region contributed to and was affected by the struggle. Many local men participated in the war, and present-day Highway 261 was an important route between Camden and Charleston for troops and supplies. The war had a damaging effect on the economic and social structure of the area as armies on both sides of the conflict seized supplies and larger towns throughout the region were destroyed. Like other areas in the new country, disorder and lawlessness marked the years after the war. In response to post-war chaos, the Sumter District was established at the turn of the 19th century. The original area included 1,672 square miles before being reduced to its current size of 681 square miles when Clarendon and Lee Counties formed in 1855 and 1902, respectively. By purchasing land in the High Hills and planning the Village of Statesburg's design, General Sumter maintained an active interest in the district that would eventually bear his name. A few miles to the east of Statesburg, the community of Sumterville incorporated in 1845. Originally a plantation settlement, Sumterville was recognized as early as 1801 when it was

identified by the postmaster general of the United States.

TRANSPORTATION AND CULTURE

Following the American Revolution, effective transportation in the Sumter area remained elusive. General Sumter formed a company in 1787 to open the Catawba and Wateree Rivers and connect Statesburg with Charleston, but the attempt proved too costly and was eventually abandoned.

A key road to the Sumter area, King's Highway (SC-261) originally connected the larger cities of Camden and Charleston and served as a trade route for settlers and Native Americans. As a result of the settlers' petition in 1758, another



Area that would become Sumter County and the City of Sumter, from Carey's 1795 Map of South Carolina

BACKGROUND AND HISTORY

road was constructed along the Black River.

Prior to the arrival of railroad, all local commerce went through Charleston and traveled these two primitive roads. Ferries provided necessary links to a variety of locations, including the new capital at Columbia. Commerce accompanied the transportation links as a collection of general stores, taverns, and inns developed as roads were constructed and ferries were launched.

A cotton mill near Statesburg began operating in 1790. When it was discovered that cotton could be produced profitably in the midlands and uplands of South Carolina, the crop replaced rice and indigo as the region's principal harvest. Fluctuations in price, however, challenged cotton farmers throughout the 1800s. Manufacturing didn't fare much better, and growth in the area's population and economy stagnated. Similar to areas throughout the United States, the arrival of the railroad changed Sumterville. Residents clamored for rail service in the early 1830s, but high costs, political wrangling, poor weather, and an inconsistent economy conspired to delay its arrival for nearly 20 years. When the railroad was eventually established in the region, it was accompanied by the construction of new buildings and homes, a new jail, freight depot, and bank. With this growth came the need for additional services, such as fire protection and improved infrastructure. Streets in town were improved, and by 1855 the town known as Sumter had grown considerably.

THE CIVIL WAR AND RECONSTRUCTION

As men of all ages marched off to war, women and children of Sumter assumed responsibilities left behind by the absence of men. Tending to farms and supporting the war effort by making

uniforms and supplies became everyday chores. As the wounded returned home, women tended to their injuries in makeshift hospitals and private homes throughout the region.

Near the end of the War, Sumter residents thought they had been spared the destruction during Union General William Sherman's March to the Sea. However, the hopes of local residents and business owners were soon shattered when Union General Edward Potter marched inland from Georgetown and in the process destroyed mills, gins, farms, plantations, railroads, engines, and lumber.

When he arrived in Sumter on April 9, 1865, Potter met some resistance by an over-matched local militia. This was the same day Confederate General Robert E. Lee surrendered, but it would take nearly two weeks for word of the events in Appomattox to reach Potter. On April 10, Potter directed his men to go house to house to search for contraband and take food, clothing, and other valuables. As a result, Sumter's shops and printing press were destroyed.

Similar to the Revolutionary War, Sumter emerged from the Civil War in disarray. While many were initially left homeless, life began to return to normal as public buildings, bridges, and railroads appeared from the ruins of war. By the early 1870s, Sumter once again began to grow.

Post-Civil War decades proved challenging for the region. The South's economy had to be restructured following the abolishment of slavery, and freed slaves and whites clashed in a number of racial conflicts. In addition, labor disputes and poor crop yields made life difficult for mill workers and farmers.



Main Street Sumter as seen circa 1900

On the upside, more railroads began operating at the close of the century. A direct line from Sumter to Camden opened in 1888, followed by a branch linking Sumter to the Southern Railroad in 1899. In 1880, a short line connected Sumter with the logging interests in Bishopville. New communities developed along these railroads, including Pinewood, Oswego, and Hagood. Commerce also was supported by the railroad. In 1884, Sumter boasted a cotton factory, 73 flour and grist mills, 31 lumber mills, and 10 turpentine establishments. Good access by rail and ample cotton and lumber resources gave particular strength to these industries.

COMMUNITY ADVANCEMENT, TRANSPORTATION IMPROVEMENTS, AND ECONOMIC DEVELOPMENT

Sumter proved to be an innovative community, recognized as the first city in the United States to incorporate the basic principles of the council/manager form of government. Sumter

BACKGROUND AND HISTORY

adopted this style in 1912, ahead of the more than 3,400 cities and 371 counties that now use the council/manager or council-administrator form. For Sumter, the new government was better equipped to keep up with the growing city's water, sewer, and electricity needs. A program inaugurated in 1915 expanded the few paved roads and sidewalks along Sumter's Main Street.

Not to be left behind by the City of Sumter, Sumter County led the state with a commitment to improve the roadway network. The county held a referendum in 1920 that approved \$2.5



A city worker repaints crossing lines in front of the Washington School on Washington St, 1940s

million in bonds for construction of paved roads. By 1924, the total had been increased to \$4 million. Within the next few years, hundreds of miles of new highways radiated from city to the county limits, including a highway across the Wateree Swamp that connected Sumter with the state capital in Columbia. Only after the state began constructing highways in 1925 did portions of the Sumter County paved roads

become part of the state system and fall under the state's maintenance program. The bonds also funded improvements to a sidewalk network that included 10 miles of elevated sidewalks made of compacted clay held in shape by wooden curbs.

Like others throughout the country during the first half of the 20th century, the people of Sumter had to endure the good and bad times brought on by the World Wars and Great Depression. Through the 1950s, the economy of Sumter County relied on agriculture. More than 3,000 farms covered the landscape, although manufacturing began establishing a niche market during this time. Eventually, Sumter benefited from a resurgent economy following World War II.

SHAW AIR FORCE BASE AND THE GROWTH OF THE MILITARY ECONOMY

Modern Sumter is forever tied to the events of August 30, 1941, the day Shaw Field was activated to train cadets to fly before sending them off to the European and Pacific campaigns of World War II. The military facility's name honored Ervin D. Shaw, the first Sumter County pilot to die in combat during World War I.

The training field not only served as the site of pilot instruction throughout the war, but also housed German prisoners-of-war in 1945 and early 1946. Activity at the airfield doubled in 1951 with the addition of the 363rd Tactical Reconnaissance Wing from Langley Air Force Base in Virginia. The facility received another boost in 1954 when the 9th Air Force headquarters was assigned to Shaw from Pope Air Force Base in North Carolina.

By the 1990s, Shaw Air Force Base was serving as an essential component of Sumter's economy



SHAW AIR FORCE BASE AERIAL VIEW, 1940s

and a key contributor to U.S. defense operations worldwide. During the early stages of the Gulf War, F-16 Fighting Falcons flew missions to stop Iraqi ground forces from invading Saudi Arabia. Throughout the war, troops and equipment from Shaw supported the military effort.

As a result of the 2005 Defense Base Realignment and Closure (BRAC) Commission recommendations, Shaw grew to an approximate total of 1,500 military and civilian employees with the relocation of US Army Central. The growth of the base had an impact on business in the Sumter area as well as the services offered to military and civilian personnel. Growth continues to come to Shaw Air Force Base.

In 2018, the 25th Attack Group was activated at Shaw AFB. The 25 ATKG remotely operates MQ-9 Reaper unmanned aerial vehicles (UAVs) worldwide. The additional mission includes training for new pilots as well as combat operations, with over 400 personnel and their families based in Sumter and over 250 students trained annually.

BACKGROUND AND HISTORY

TURN OF THE MILLENNIUM

The 2000s have seen a great deal of growth and investment in the Sumter area.

After the difficult years of the 1990s in which several industries shuttered their doors, thanks in large part to a team effort between the City, County, and local stakeholders such as Central Carolina Technical College, and the Sumter School District, the area has seen a resurgence of commerce, particularly in the manufacturing sector. What can be considered a catalyst for this effort is Sumter's successful "Penny for Progress" local sales tax initiative, which saw an additional 1% sales tax levied locally to fund capital projects across the community. Projects funded via the first Penny for Progress referendum included a



SUMTER'S PATRIOT PARK SPORTSPLEX, FUNDED VIA THE 2007 PENNY FOR PROGRESS REFERENDUM

new judicial center, the Patriot Park Sportsplex, renovations to the County Civic Center, industrial infrastructure projects, and a major highway intersection project at US-15 North and the US-378 Bypass known as the "Lafayette Diamond".



AERIAL IMAGE OF CONTINENTAL TIRE'S \$500 MILLION MANUFACTURING FACILITY UNDER CONSTRUCTION, 2013

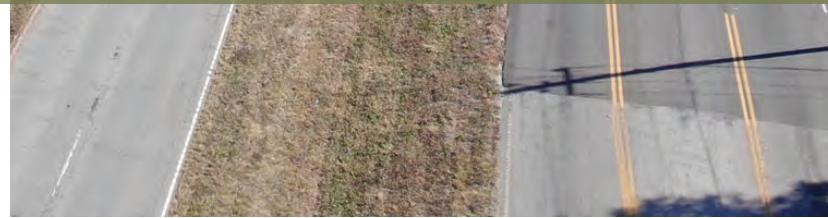
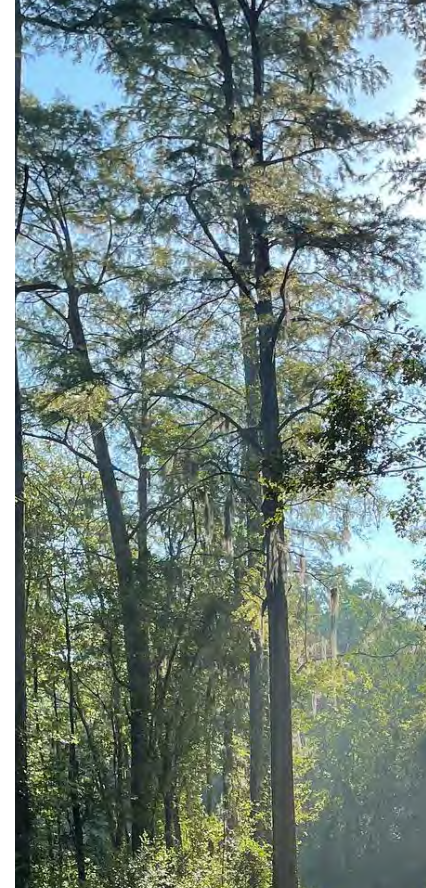
The work started by "Team Sumter" in the 2000s paid dividends after the Great Recession of 2009 when Continental Tire selected Sumter to host a 1,600 job and \$500 million tire manufacturing facility located south of the City on US-521. The Continental Tire announcement, combined with Shaw AFB's expansions, mobilized the community to re-authorize the Penny for Progress sales tax which funded additional park improvements, industrial infrastructure, Sumter's first Greenway, new police and fire headquarters, and several roadway projects including revitalizations of the North Main Street and Manning Avenue corridors.

LOOKING BACK AND MOVING FORWARD

The transportation options available to Sumter residents are constantly evolving. The National Interstate and Highway Defense Act of 1956 brought increased access to the area. As a result, the region is now encircled by three Interstate Highways: I-95, I-20, and I-26. In 1973, the state

legislature passed a series of laws in response to a need for public transportation throughout South Carolina. In 1978 this led to the formation of the Santee Wateree Regional Transportation Authority (SWRTA). SWRTA has expanded to reach into five counties, including Sumter County, with fixed route, paratransit, and Medicaid transportation services.

Local industry continues to take advantage of new opportunities brought by improved access. Today, a good transportation network and growing economic base positions the City of Sumter and Sumter County for a healthy future. By undertaking the development of a long-range transportation plan, Sumter is committing to preserving the region's unique historical, cultural, and natural resources while expanding services to meet the needs of the area's changing population.



CHAPTER 2

INTRODUCTION AND VISION



CHAPTER 2

WHAT IS AN LRTP?

GROWTH AND CHANGING TRANSPORTATION TRENDS

MPO AREA MAP

REVIEW OF EXISTING PLANS AND STUDIES

VISION STATEMENT

GOALS

ELEMENTS OF AN LRTP

FEDERAL AND STATE ENABLING LEGISLATION

WHAT IS AN LRTP?

To plan for the future of the SUATS MPO area, we must understand a series of fundamental relationships — how the past influences the present, how land use interacts with transportation, and how collective vision becomes a real, desirable future. This financially constrained transportation plan recognizes the need to embrace our history as we build for our future. The 2050 SUATS Long Range Transportation Plan is the result a multi-level partnership that brought local, state, and federal policy-makers to the table with local residents, business owners, and stakeholders.

- South Carolina Department of Transportation (SCDOT)
- Shaw Air Force Base
- Federal Transit Authority (FTA)
- Federal Highway Administration (FHWA)

GROWTH AND CHANGING TRANSPORTATION TRENDS

The SUATS MPO area's changing needs and priorities are the result of continued growth and changing transportation trends. The South Carolina Revenue and Fiscal Affairs Office estimates Sumter County lose population by 2035, though the state population is expected to grow significantly within the same time frame.

However, the forecast does not fully account for increased mission and personnel transferring to Shaw Air Force Base and new commercial and industrial development in the community. Several thousand new residents are expected including service members' families. Furthermore, while Sumter County has experienced and is anticipated to continue to see population reduction, the City of Sumter has grown at the same time, as evidenced in the results of the 2020 Census. This shift suggests that while the County, which is often used as the geographic basis for population projections, is shrinking, the urbanized part of Sumter is growing, and this growth must be accounted for in transportation planning.

Additional growth provides residents with new cultural, recreational, and economic opportunities but creates renewed challenges for preserving the area's high quality of life. These challenges include increased traffic congestion and pollution as well as loss of open space and evolving commuting patterns.

Presently, a significant percentage of Sumter County residents stay within the county for work. Based on U.S. Census data, approximately 46% of workers who live in Sumter County work within 10 miles of their home. However, over 42% of workers living in the County commute 25 miles or more to their jobs. This bifurcation of employment locations places pressure on local officials to establish a transportation system that balances the economic needs of the region, with equal parts of the workforce needing very different facilities and approaches.

WHAT IS AN LRTP AND WHY UPDATE?

At its core, a long-range transportation plan (LRTP) identifies ways a region expects to invest resources to enhance its transportation system. The underlying principles and recommended actions of an LRTP reflect choices made by the public and private sectors regarding transportation investments, land use decisions, and infrastructure improvements.

A typical LRTP consists of 2 parts—a description of the vision for the region and a detailed list of policies, operational strategies, and projects to achieve the vision. The LRTP must include a variety of actions that lead to “the development of an integrated intermodal transportation system that facilitates the efficient movement of people and goods”.¹ These tasks are accomplished within the context of policy review and public involvement to produce an intermodal transportation system that respects an area's history and heritage while providing true choice to all users. Federal regulations require the region's LRTP be updated every 5 years to reflect changing needs and priorities. This plan updates the existing SUATS LRTP last updated November 2018.

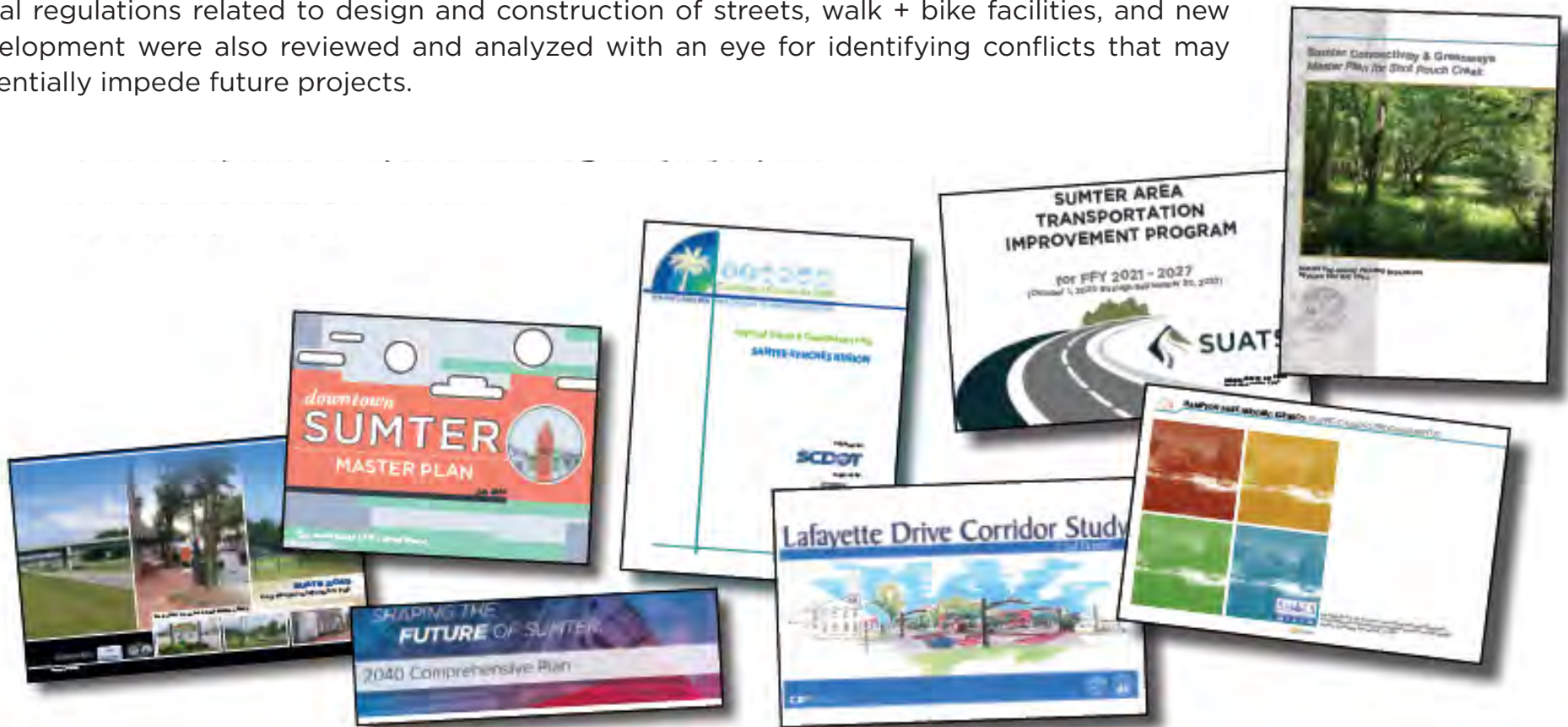
The federal government requires a comprehensive, cooperative, and continuing process for initiatives to be eligible for federal transportation funding. To that end, several stakeholders had a hand in this updated plan, including:

- City of Sumter
- Sumter County
- Santee-Wateree Regional Transportation Authority (SWRTA)

¹ 23 CFR 450c, Sec. 450.322


REVIEW OF EXISTING PLANS AND STUDIES

Existing plans and studies were thoroughly reviewed with a focus on identifying recommendations for infrastructure, programs, and policies that may influence transportation within the community. Local regulations related to design and construction of streets, walk + bike facilities, and new development were also reviewed and analyzed with an eye for identifying conflicts that may potentially impede future projects.



SUATS Limit Map


Sumter Urban Area Transportation Study (SUATS)
Metropolitan Planning Organization (MPO)

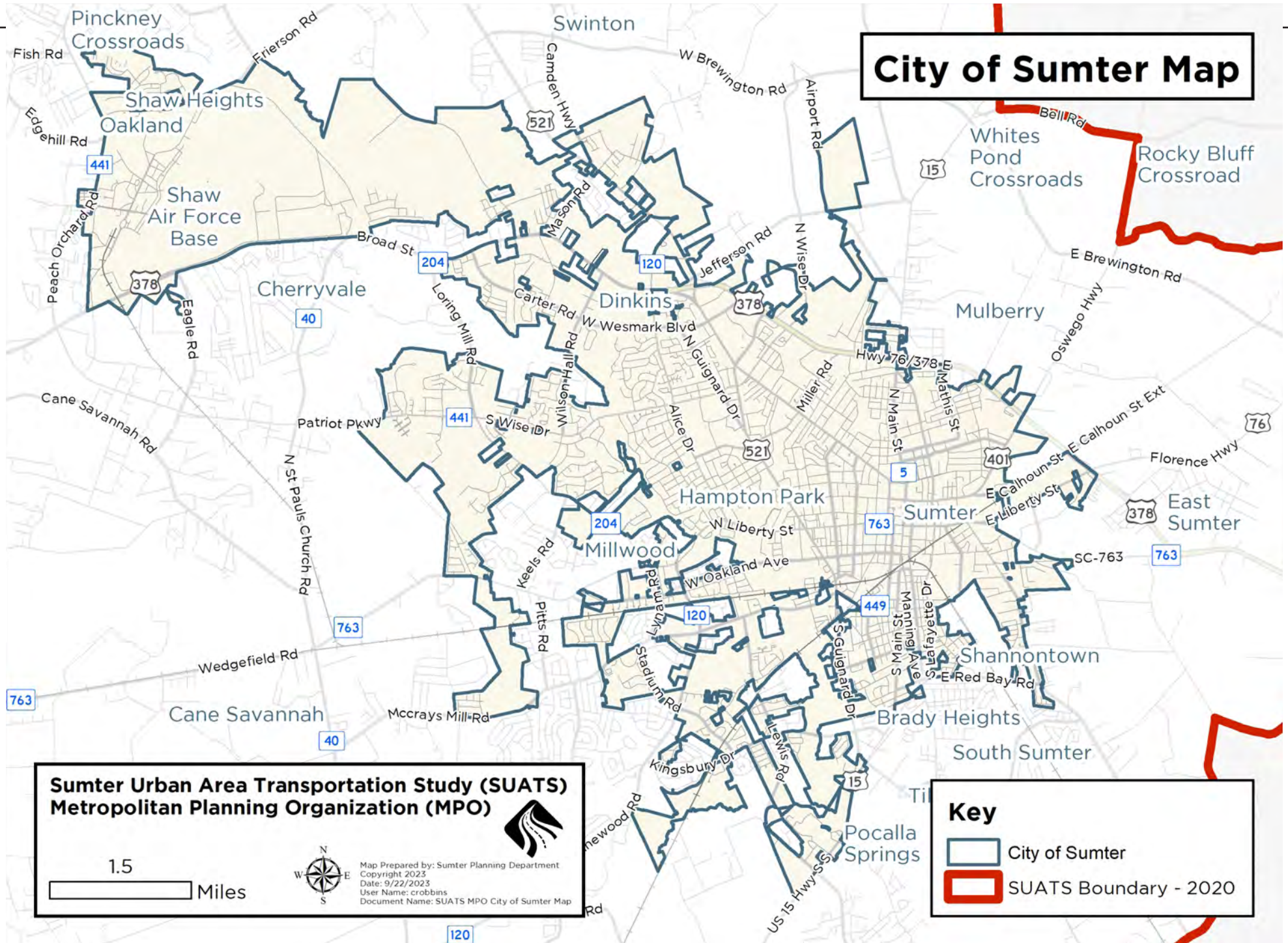


4 Miles

Map Prepared by: Sumter Planning Department
 Copyright 2023
 Date: 9/22/2023
 User Name: crobbins
 Document Name: SUATS MPO SUATS Map


Key

 SUATS Boundary - 2020



VISION STATEMENT

The vision for the SUATS Long-Range Transportation Plan was developed based on the input received from the SUATS Technical Advisory Committee and the public. The vision statement is as follows:



SUATS AREA CITIZENS ENVISION AN ATTRACTIVE AND THRIVING COMMUNITY THAT INVITES BUSINESSES AND INDIVIDUALS THAT DESIRE HIGHER QUALITY OF LIFE LINKED TO A SAFE, EFFICIENT, MAINTAINABLE, AND ENVIRONMENTALLY COMPATIBLE TRANSPORTATION SYSTEM THAT PROVIDES CONVENIENT CHOICES FOR ACCESSING DESTINATIONS THROUGHOUT THE MPO.

GOALS

The goals that follow balance the vision with the results of the public involvement process. When the SUATS 2040 Long Range Transportation Plan was developed, 6 goals were identified for the plan. In 2045, these goals were carried forward as part of the plan update process. For this 2050 Plan, these goals were validated as remaining relevant and consistent with the MPO's vision and the community's desires.

culture & environment



Minimize environmental impacts created by transportation systems by utilizing planning tools to preserve and promote natural assets.

safety & security



Provide and promote a safe transportation system for all users by implementing best practices in Complete Street design.

growth & development



Create a system of interconnected streets and paths by developing a plan that supports existing and future development.

network preservation



Ensure the quality of the current network is upheld to provide robust service to residential, commercial, industrial, and military uses.

economic vitality



Support the local economy by making it easier to move people and freight in the area while maximizing benefits and minimizing costs.

mobility & accessibility



Provide a balanced transportation system that makes it easier to walk, ride a bike, and take transit by implementing traffic calming and developing safe corridors.

ELEMENTS OF AN LRTP

ELEMENTS OF A LONG RANGE TRANSPORTATION PLAN

This plan serves as a tool and guide for decision-makers in the implementation of the SUATS MPO area's transportation system. The plan represents the collective vision of a safe, multimodal, and interconnected transportation system that supports continued economic development without compromising the natural, historic, and social resources vital to the SUATS MPO area's sustainability.

The SUATS 2050 Long Range Transportation Plan concludes with two critical chapters. The Financial Plan investigates potential funding sources and revenues and identifies probable costs for the recommendations in order to produce a financially-constrained plan. The Implementation Plan provides a roadmap for design and construction of proposed projects.

Elements of the LRTP include:



STATE OF THE REGION



EXISTING AND FUTURE ROADWAYS



WALK + BIKE



PUBLIC TRANSIT



FREIGHT, RAIL, AND AVIATION



SCENARIO PLANNING

FEDERAL ENABLING LEGISLATION

FIXING AMERICA'S SURFACE TRANSPORTATION ACT (FAST Act)

The national transportation goals first established under the *Moving Ahead for Progress in the 21st Century Act (MAP-21)* were retained and advanced through the next major federal transportation law, the *FAST Act*, which was signed into law on December 4, 2015. Though the *FAST Act* was replaced in 2021 with a new 5-year surface transportation authorization act, the new law is a successor, rather than a replacement, to the policies enshrined in the *FAST Act*.

Under the *FAST Act*, 2 additional Planning Factors were added to the original set of 8 Federal Planning Factors. The full list of Federal Planning Factors, which are given special focus within the MPO's LRTP planning program, are listed below:

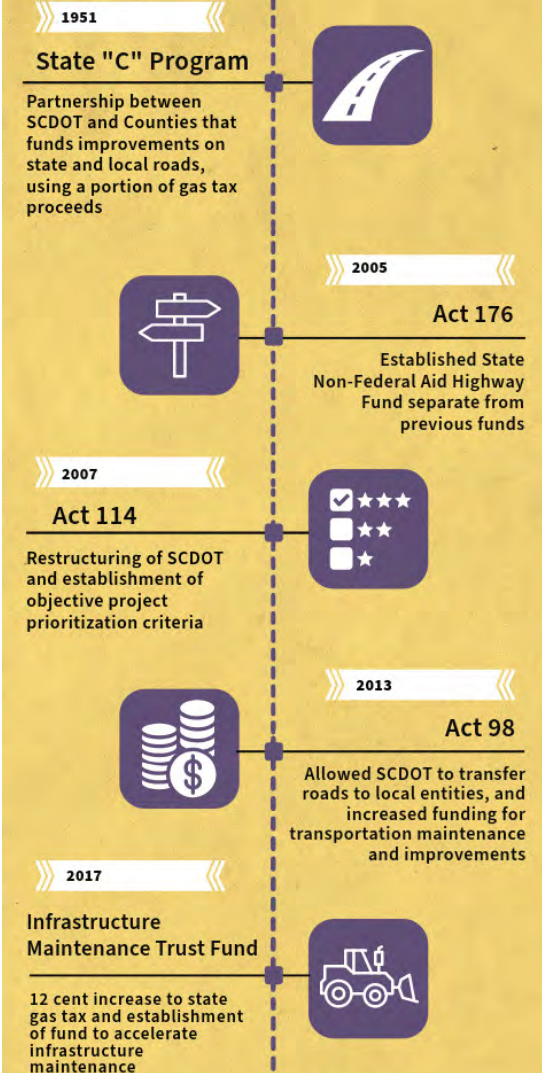
1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increase the safety of the transportation system for motorized and non-motorized users;
3. Increase the security of the transportation system for motorized and non-motorized users;
4. Increase the accessibility and mobility of people and for freight;
5. Protect and enhance the environment, promote energy conservation, improve quality of life, and promote consistency

- between transportation improvements and state and local planned growth and economic development patterns;
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
 7. Promote efficient system management and operation;
 8. Emphasize the preservation of the existing transportation system;
 9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation;
 10. Enhance travel and tourism

INFRASTRUCTURE INVESTMENT AND JOBS ACT (IIJA)

The *IIJA* was signed into law on November 15, 2021. This legislation will provide federal transportation funding through 2026. *IIJA* is the largest long-term investment in infrastructure and economy in U.S. history. It provides \$350 billion over a 5-year period in new Federal investment in roads, bridges, and mass transit. The *IIJA* continues the planning factors and goals already established via *MAP-21* and the *FAST Act*, creates over 12 new federal highway programs, and establishes more opportunities for local governments and MPOs to obtain funding directly.

History of South Carolina Transportation Legislation





CHAPTER 3

OUTREACH AND ENGAGEMENT



CHAPTER 3

OUTREACH AND ENGAGEMENT

NEEDS ASSESSMENT SURVEY

WORD CLOUD

INTERACTIVE MAPPING

ADDITIONAL WALK + BIKE SPECIFIC ENGAGEMENT

ADDITIONAL TRANSIT-SPECIFIC ENGAGEMENT

OUTREACH AND ENGAGEMENT

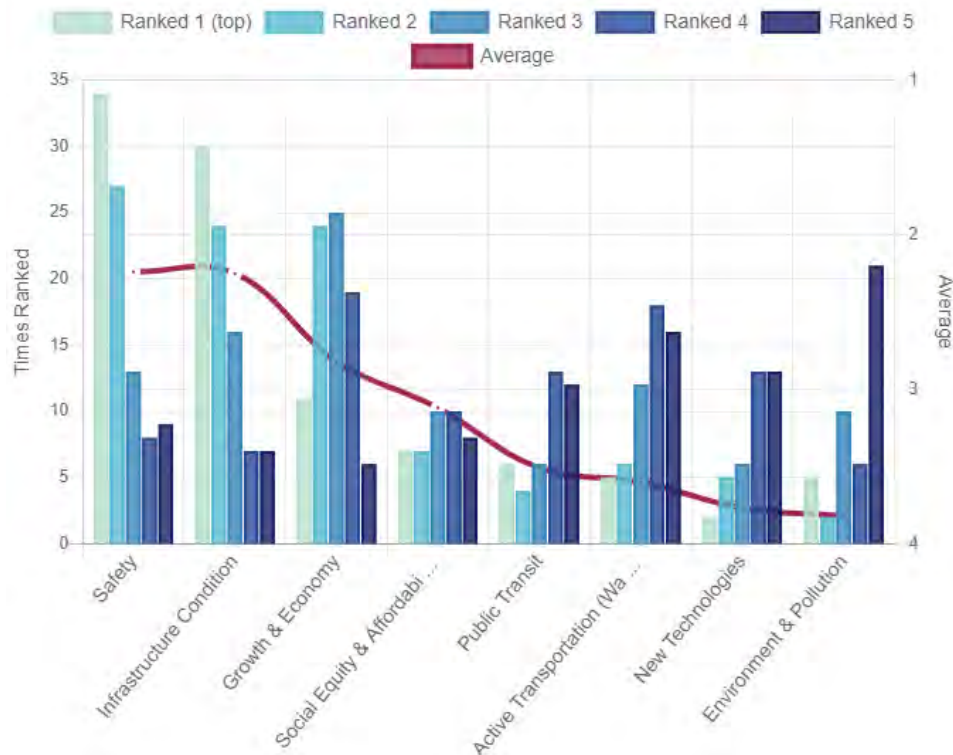
OUTREACH OVERVIEW

Engagement for Sumter 2050 included a standalone online survey as well as leveraging of multiple inter-related planning initiatives that involve intensive public outreach and engagement, including the Sumter Walk+Bike Master Plan, Santee-Lynches Regional Transportation Needs Assessment + Framework, Turkey Creek Greenway Feasibility Study, and Connect 378 Feasibility Study.

In total, the public meetings, workshops, and stakeholder engagement sessions included:

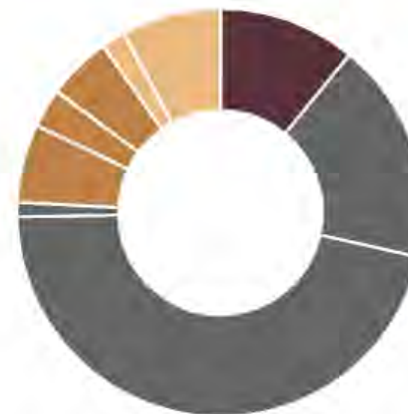
- **4** Public Information Sessions and Workshops
- **8** Small Group and Individual Interviews
- **5** Public Surveys
- **4** meetings of the SUATS Technical Committee

Transportation Trends & Issues



Survey Participants:
111

Survey Data Points:
4423



Points per Participant:
40

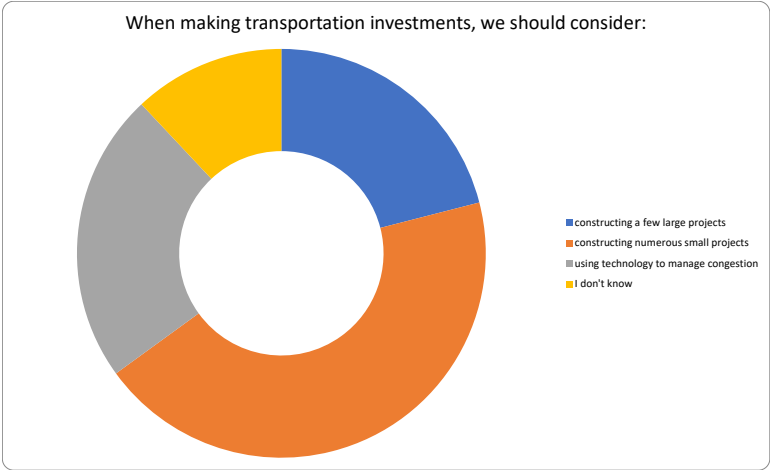
Screen 2 Transportation Trends & Issues
Rankings Submitted: 483
Screen 3 Survey Questions
Categorical Survey Answers: 778
CheckBox Selected: 2042
Comments: 50
Screen 4 Help Identify Improvements
of dropped Map Markers: 275
Comments: 137
Categorical Survey Answers: 226
Screen 5 Wrap Up
Zip/Postal Codes: 83
Categorical Survey Answers: 349

NEEDS ASSESSMENT SURVEY

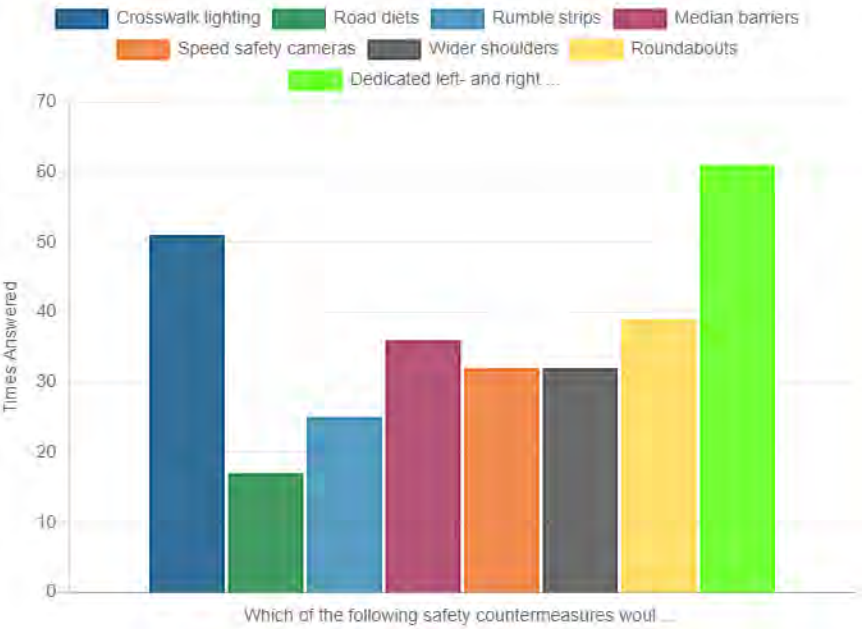
2050 LONG RANGE TRANSPORTATION PLAN NEEDS ASSESSMENT SURVEY

The primary public outreach and engagement vehicle specific to the entirety of the 2050 LRTP was a MetroQuest survey that was available from May 2, 2023 - July 31, 2023. The survey was fully completed by 111 individuals, however over twice that number visited the site but did not fully complete the survey.

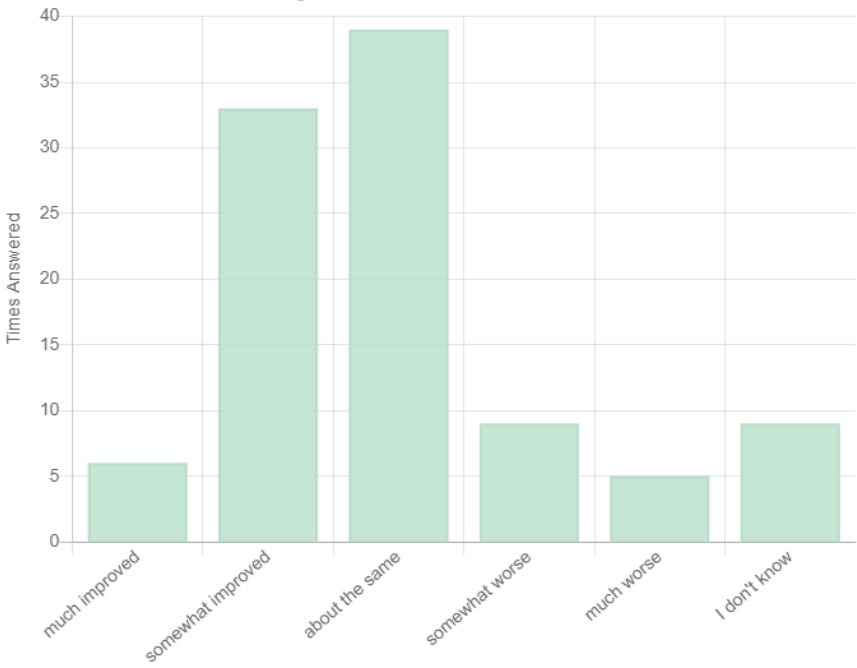
Over 4,400 data points were recorded via the 2050 LRTP Survey using MetroQuest, including attitudes on priorities, specific survey questions on themes within the LRTP, and identification of needs on an interactive map.



Which of the following safety countermeasures would you like to see implemented in the Sumter area? (select all that apply)



Over the past 5 years, do you think the transportation system in Sumter is:



A word cloud centered around the word "Safety". The word "Safety" is the largest and most prominent. Other large words include "roads", "time", "need", "growth", "economy", "freight system", "communities", "biking trails", "Sumter area", "New", "public transportation", "statewide intermodal transportation", "better traffic light timing", "red light", "heavy truck traffic", "lots", "high traffic times", "local bus routes", "maintenance", "merging", "connectivity", "operation", "signage", "availability", "More bike lanes", "state highway system", "cars", "streets", "Sumter", "bus", "times", "potholes", "outdoor walking", "signs", "movement", "Better bus stop signage", "neighborhoods", "something", "trash", "areas", "Columbia", "lot", "example", "speed", "people", "More", "roads", "sidewalks", "riders", "easy access", "systematic planning", "45 minutes", "city", "construction", "rail systems", "walk access", "goods", "Safety", "high quality transportation system".



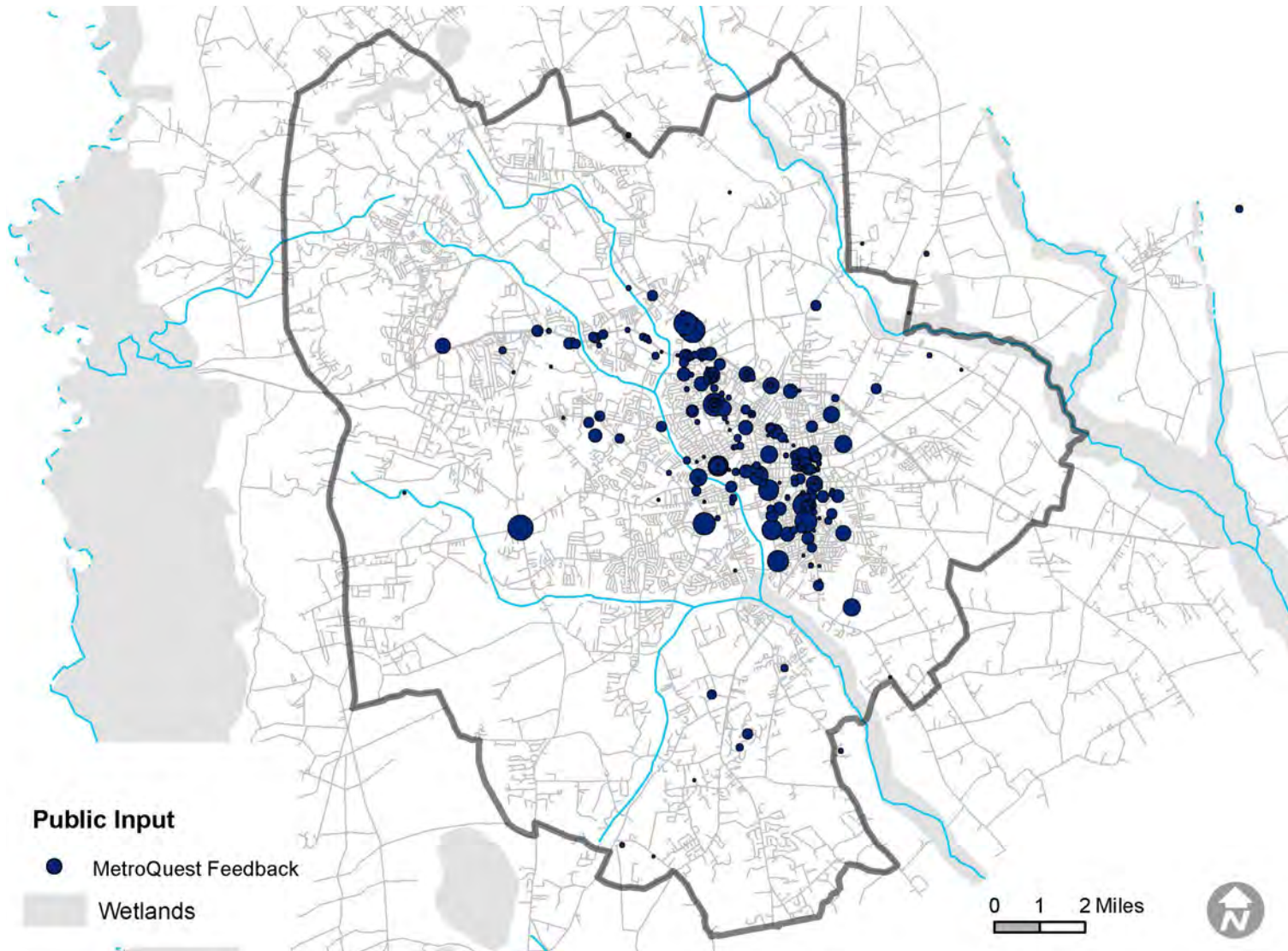
INTERACTIVE MAPPING

An important part of the MetroQuest survey was an embedded interactive mapping component that allowed participants to specify where, in their opinion, improvements are needed to the SUATS MPO's transportation infrastructure.

Over 275 markers were placed on the map via survey, identifying specific

points of desire for drivers, pedestrians, cyclists, and public transit riders.

The map below outlines the general areas where each point was marked by participants. Each entry was reviewed and analyzed as part of the development of the LRTP, particularly to inform development of priority corridors and intersections for improvement.



ADDITIONAL WALK+BIKE-SPECIFIC ENGAGEMENT

Walk + Bike Master Plan Outreach and Engagement

As part of the development of the Sumter area's first Walk and Bike Master Plan, an intensive public outreach and engagement effort was undertaken in 2022. The engagement effort began with convening a citizen steering committee of 16 residents representing a broad cross-section of community characteristics.

Close to 1,900 public interactions were achieved between all outreach activities during the 12-month study period.

During the year, SUATS staff and consultant team members participated in local events around the Sumter area to conduct in-person outreach.

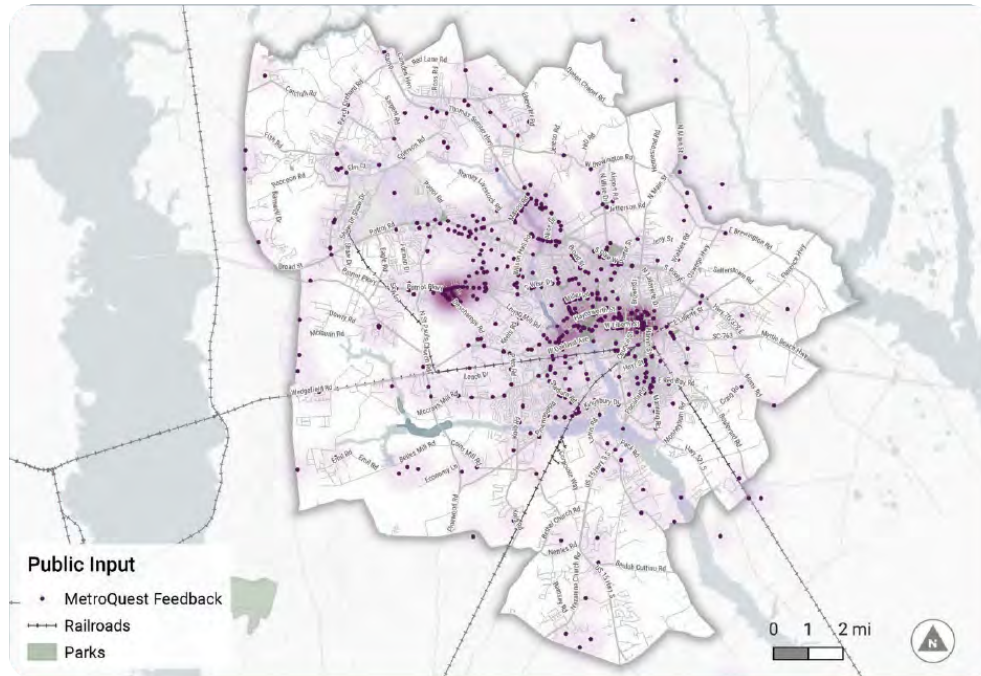
Finally, a public open house was conducted to introduce the draft Master Plan recommendations and receive input.



ADDITIONAL WALK+BIKE-SPECIFIC ENGAGEMENT

Rank Your Top 5 Priorities

	Iris Festival	Global Leadership Summit	Art in the Park	Festival on the Avenue	Total
Recreational Opportunities	1	5	7	3	16
Accessibility	9	3	7	2	21
Equity	17	0	5	10	32
Safety	10	4	13	8	35
Better Connections	2	1	6	0	9
Access to Parks and Greenspaces	9	1	10	5	25
Short Trips via Walking	3	1	9	2	15
Amenities	4	1	8	0	13



GREENWAYS & TRAILS RANKING:

- Greenways: 96% approval
- Rail Trail: 93% approval
- Unpaved Trail: 65% approval



PEDESTRIAN FACILITIES RANKING:

- Sidewalk with Wide Buffer: 91% approval
- Shared Use Path: 89% approval
- Sidewalk with narrow buffer: 63% approval
- Unbuffered Sidewalk: 36% approval



BICYCLE FACILITIES RANKING:

- Separated Bike Lane: 84% approval
- Buffered Bike Lane: 83% approval
- Standard Bike Lane: 79% approval
- Signed Bicycle Route: 44% approval
- Shared Lane/Neighborhood Bikeway: 32% approval



Walking and bicycling facilities (Source: Toole Design Group)

ADDITIONAL TRANSIT-SPECIFIC ENGAGEMENT

During 2019, a comprehensive public outreach effort was undertaken by staff of the Santee-Lynches Regional Council of Governments on behalf of Santee-Wateree Regional Transportation Authority (SWRTA) to obtain perspectives from transit users and potential transit users as part of a region-wide needs assessment and action plan.

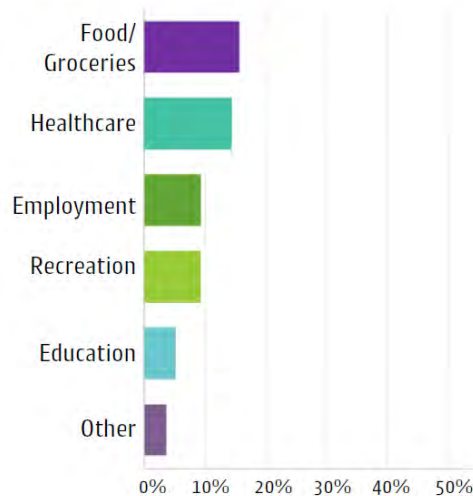
The primary vehicle for input was a community attitudes survey made available electronically and via hard copies placed strategically around the region. A secondary survey sought input from current riders of the system. Both surveys revealed several key perspectives and attitudes, none more significant than the overall perspective that public transportation is an important community asset.

In addition to surveying the general public and current transit riders, open house sessions were conducted in each of the region's four counties.

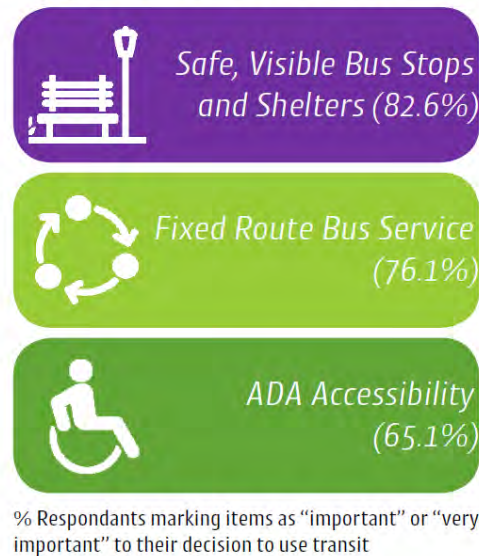
General Public Survey

690	Survey Respondents
4	Open House Sessions
7,675	Total "Reach" via Facebook, Instagram
2,414	"Impressions" via Facebook, Instagram
95	Likes, Comments, and Shares

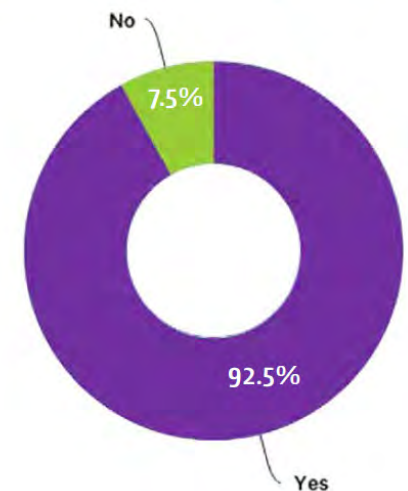
Difficulty Traveling to Destination Types:



Top 3 Potential Rider Desires



Is Public Transportation an Important Community Asset?

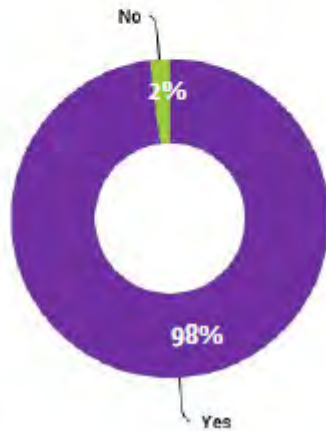


ADDITIONAL TRANSIT-SPECIFIC ENGAGEMENT

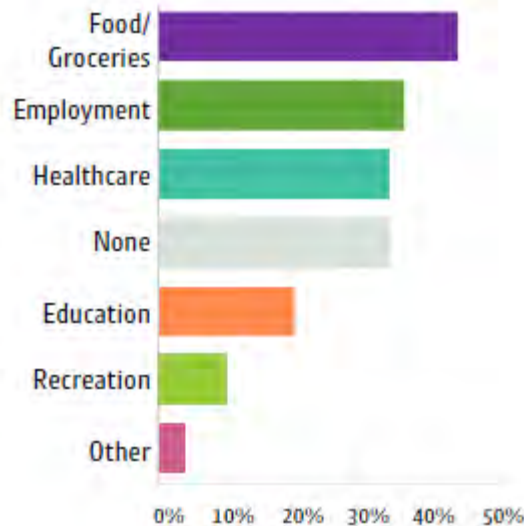
Current Ridership Survey

52 Survey Respondents

Is Public Transportation an Important Community Asset?



Difficulty Traveling to Destination Types:



Top 3 Current Rider Desires:



% Respondants marking items as "important" or "very important" to their decision to use transit



CHAPTER 4

STATE OF THE REGION



CHAPTER 4

OVERVIEW

POPULATION TRENDS

POPULATION MAP

PERCENT MINORITY MAP

COMMUTING PATTERNS

ECONOMIC DRIVERS

AVERAGE MEDIAN INCOME MAP

HISTORICALLY TRANSPORTATION DISADVANTAGED COMMUNITIES

PERCENT OF POPULATION WITH NO VEHICLE MAP

ACTIVE SUBDIVISIONS UNDER CONSTRUCTION MAP

GREEN INFRASTRUCTURE AREAS MAP

FLOODPLAIN MAP

SUMTER 2040 FUTURE LAND USE MAP

GENERALIZED LAND USE CONTEXTS

OVERVIEW

101,500

2020 Population

100,000

2035 Population (Projection)

2.3%

of the State of South Carolina's Population

37.9

Median Age

\$47,133

Median Household Income

2.44

Average Household Size

222

Square miles covered

A crucial step in transportation planning is to understand the forces that will drive regional change over the coming years. This chapter highlights demographic and economic trends related to the future growth and transportation of the Sumter Community. The existing conditions highlighted in this chapter informed the creation of the regional transportation strategy throughout the planning process.

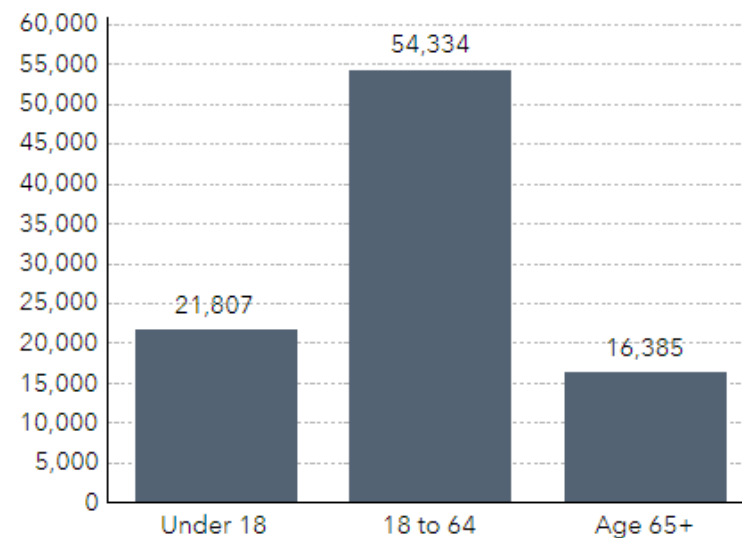
Transportation represents a crucial part of a region's social fabric and man-made infrastructure. Residents rely on transportation to access education, health care, and jobs, while cities and industries rely on a functioning system to keep the region moving.

Sumter County, the City of Sumter, and the Sumter Area Transportation Study (SUATS) Metropolitan Planning Organization (MPO) are located in the eastern portion of the geographic area commonly referred to as the "Midlands of South Carolina". The County has a population of 106,700, of which 101,500 reside within the SUATS MPO boundary. The City of Sumter, the only municipality located within the SUATS MPO, has a population of 43,463. In some cases, statistical data is available only at the County level because SUATS comprises the vast majority of the County's population, those figures are used to inform an understanding of the MPO.

While overall population growth in the City and County has remained flat in recent decades, a notable trend can be discerned when looking at where growth and loss are occurring within the City and County. Census tract level population data from the last two decades clearly shows that population growth is occurring to the west, away from downtown and toward Shaw Air Force Base and Columbia. Population loss



Table 4.1 - SUATS MPO Population by Age



POPULATION TRENDS

in the MPO is occurring in eastern area of the historic city core known as Crosswell, and in the area south of the CSX railroad depot known as the South Side.

An additional demographic impact on the SUATS area is felt from Shaw Air Force Base (AFB). Built in 1941, it is one of the oldest regional Unified Combat Commands in the US Air Force. Shaw AFB is home to the 20th Fighter Wing, and headquarters of the Ninth Air Force, US Air Forces Central, and US Army Central. The 20th Fighter Wing is the largest F-16 combat wing in the Air Force. The base hosts over 8,200 active-duty military members, 1,200 civilian employees and roughly 12,000 family members. In 2021, Shaw AFB was estimated to generate over \$1.5 billion in regional economic activity, and an over \$2 billion impact on the state economy.

However, the Census provides only a partial picture of the population dynamic in SUATS. Data provided by the Sumter City-County Planning Department indicates that some growth is occurring, particularly in the urbanized area, likely offset by contraction in the rural parts of Sumter County.

Table 4.2 - Active Major Subdivision Development Activity in SUATS MPO

	Total Housing Units Approved	Housing Units Built	Housing Units Remaining	% Units Remaining to Build
City of Sumter	3,726	2,100	1,626	44%
Sumter County	1,352	793	559	41%

Data accessed Sumter City-County Planning Department 2022 End of Year Report


Table 4.3 - SUATS MPO Age Profile




Dots show comparison to National Average

Population Map

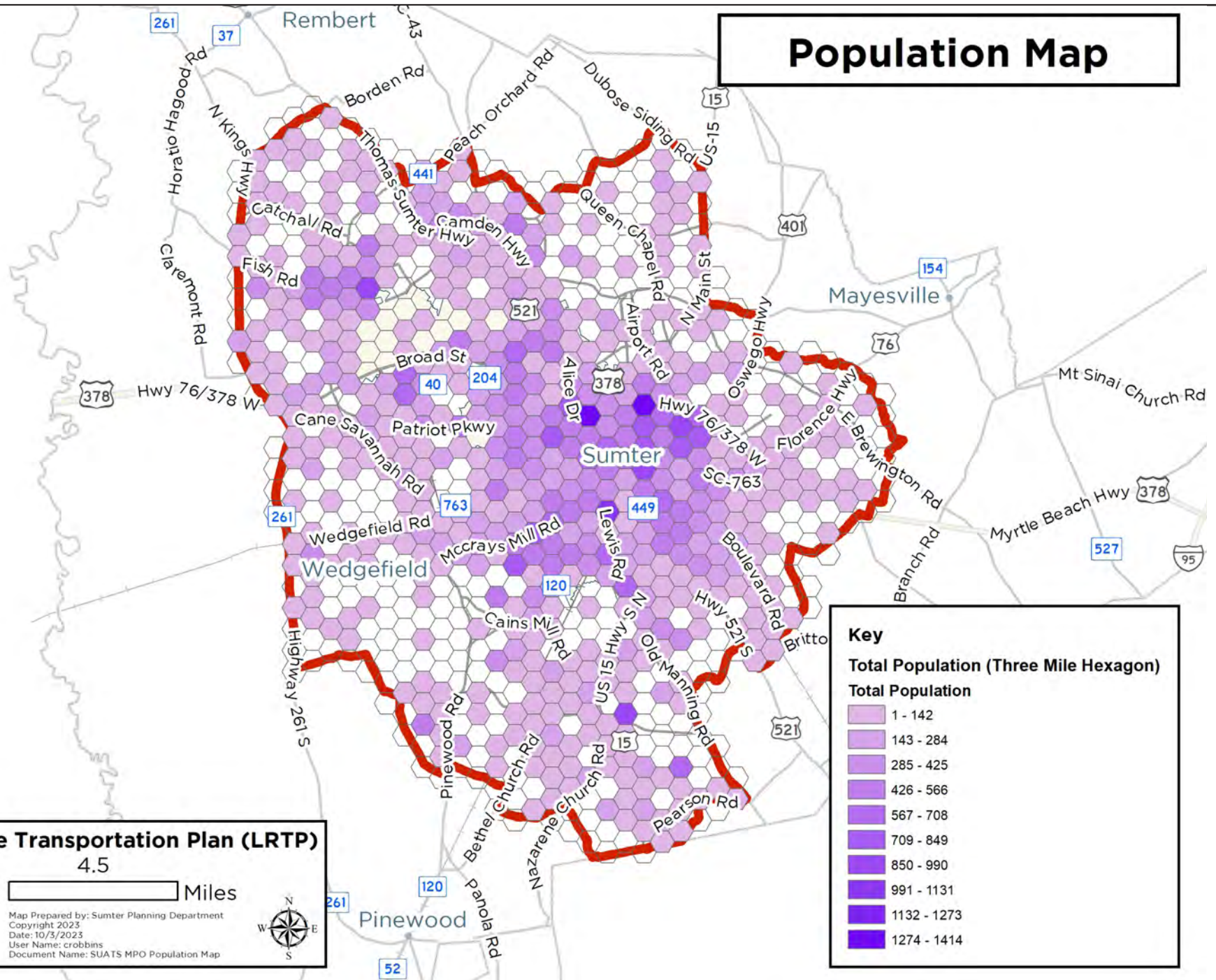
Long Range Transportation Plan (LRTP)
4.5



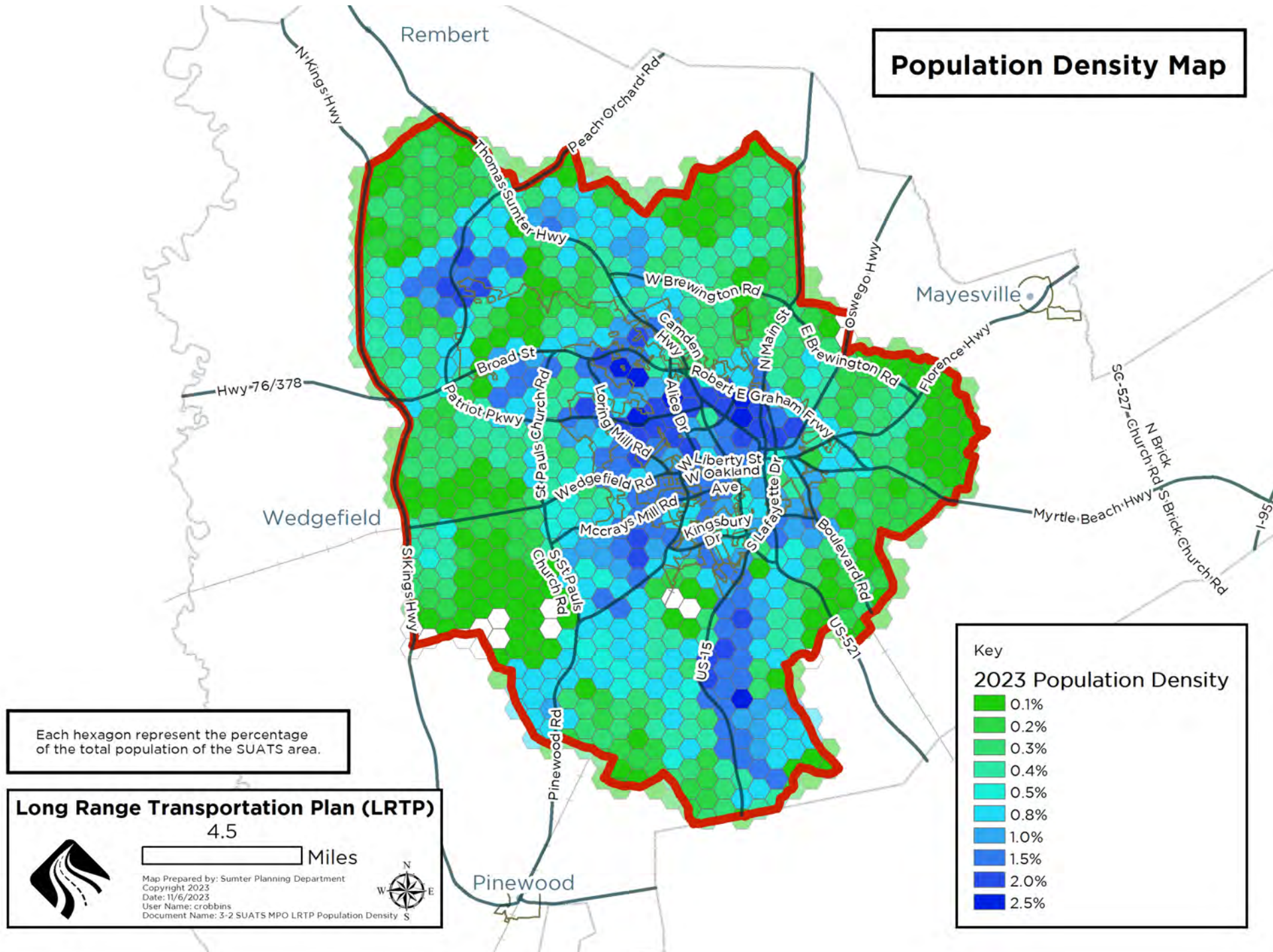
Map Prepared by: Sumter Planning Department
Copyright 2023
Date: 10/3/2023
User Name: crobbins
Document Name: SUATS MPO Population Map



Miles



Population Density Map



COMMUTING PATTERNS

40,802

Workers ages 16 and older

85.4%

Percent of workers driving alone to work

14.6%

Spent 7+ hours commuting per week

0.3%

Residents commute via public transit

1.7%

Residents walk to work

8.5%

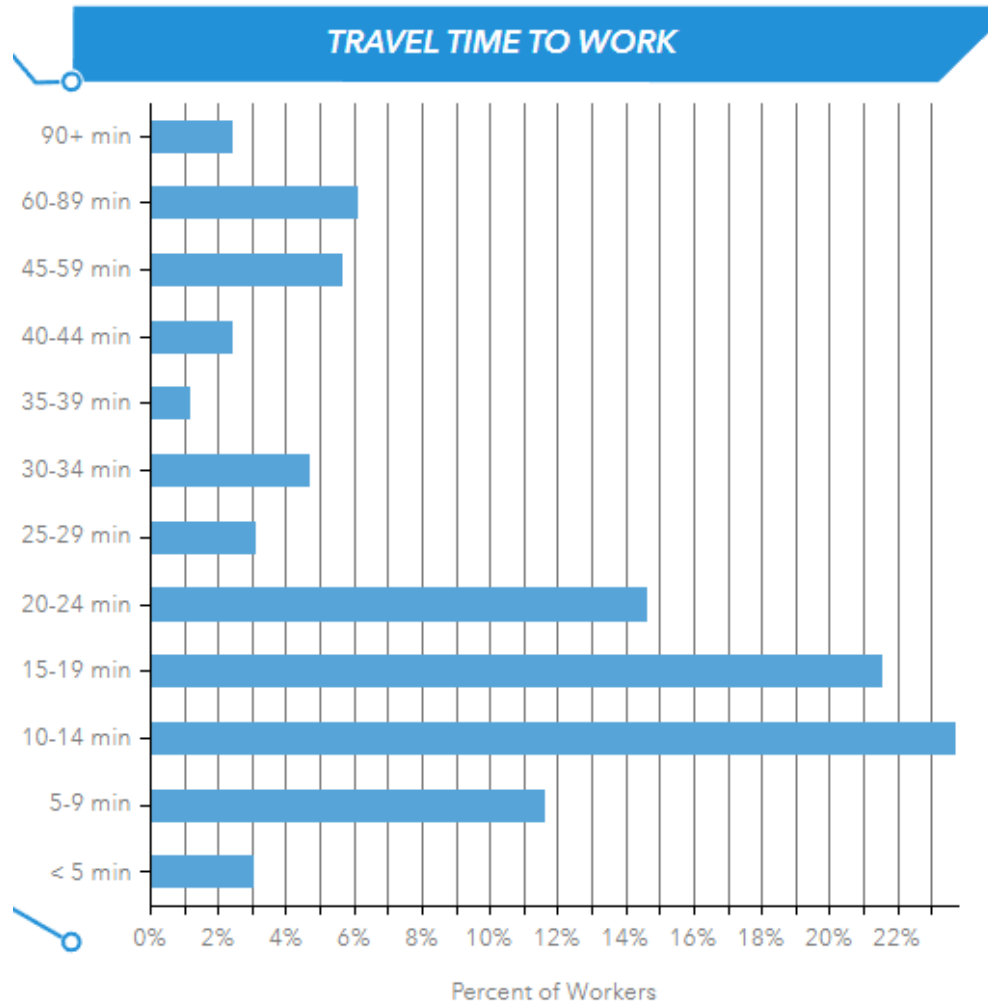
Residents carpool to work

0.3%

Residents bike to work

Presently, a significant percentage of Sumter County residents stay within the county for work. Approximately 60% of workers who live in Sumter County travel less than 20 minutes to work. However, over 13% of workers living in the County commute more than 1 hour to their jobs. The average travel time to work for Sumter County workers (22.7 minutes) remains slightly below South Carolina (25.3 minutes) and national (25.6 minutes) averages.

Table 4.4 - SUATS MPO Travel Time to Work



ECONOMIC DRIVERS

There are nearly 3,000 businesses employing over 40,000 employees in the SUATS region. The median household income for the region is \$47,133, and per capita income is \$26,963.

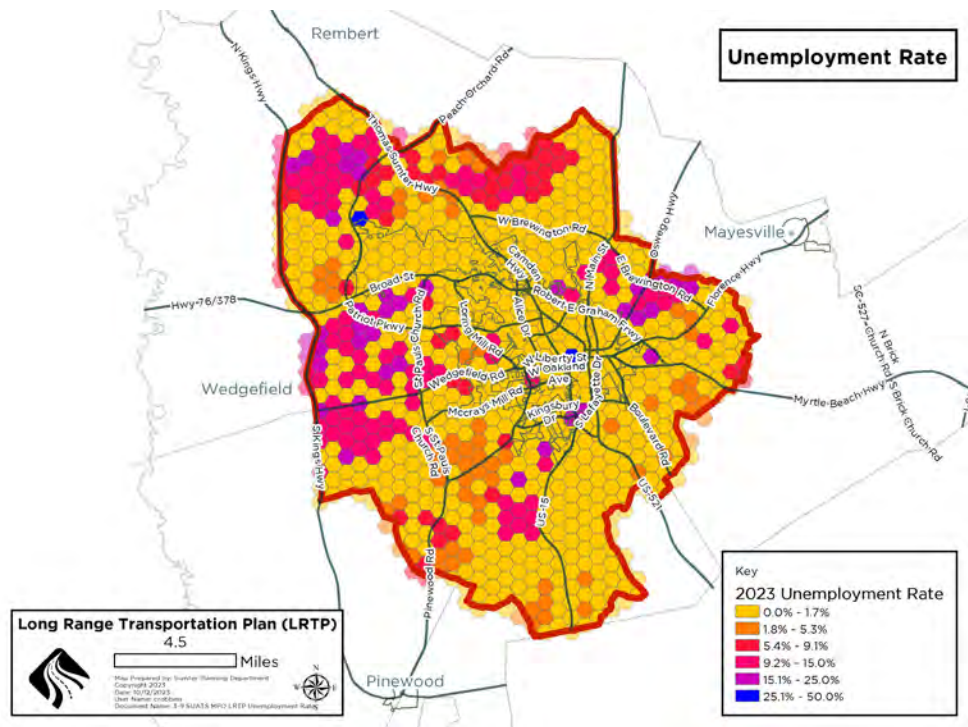
Manufacturing is the largest industry sector in Sumter, employing roughly 6,700. The next-largest sectors in the region are Health Care and Social Assistance (~5,800 workers) and Retail Trade (~4,800). Of particular note, Sumter's manufacturing employment is concentrated at nearly twice the national average.

In 2021, nominal Gross Domestic Product (GDP) in Sumter County expanded 9.9%. This follows growth of 0.4% in 2020. As of 2021, total GDP in Sumter County was \$4.44 billion.

Cost of Living is a measure of relative purchasing power. The cost of living is 4.4% lower in Sumter than the U.S. average.

Table 4.5 - Top 10 Industrial Employers in SUATS

Company Name	Product(s)
Continental Tire the Americas	Passenger and Light Truck Tires
Pilgrims Pride	Fresh and Frozen Poultry
BD Diagnostics	Disposable Blood Collection Devices (medical)
Thompson Industrial	Industrial Cleaning Services
Eaton Electrical	Electrical Distribution Equipment
Sylvamo	Office Paper
Caterpillar Hydraulics	Hydraulic Cylinders for Heavy Equipment
SKF	Precision Bearings
EMS Chemie	Polymers, Nylon Resins & Plastics
American Materials Company	Sand, Gravel, Ready-Mix Concrete



American Community Survey (ACS) Poverty Index

Definition of American Community Survey (ACS) Poverty Index: Percent of Population whose income in the past twelve months is below the Federal Poverty Level.

Long Range Transportation Plan (L RTP)

4.5

Miles



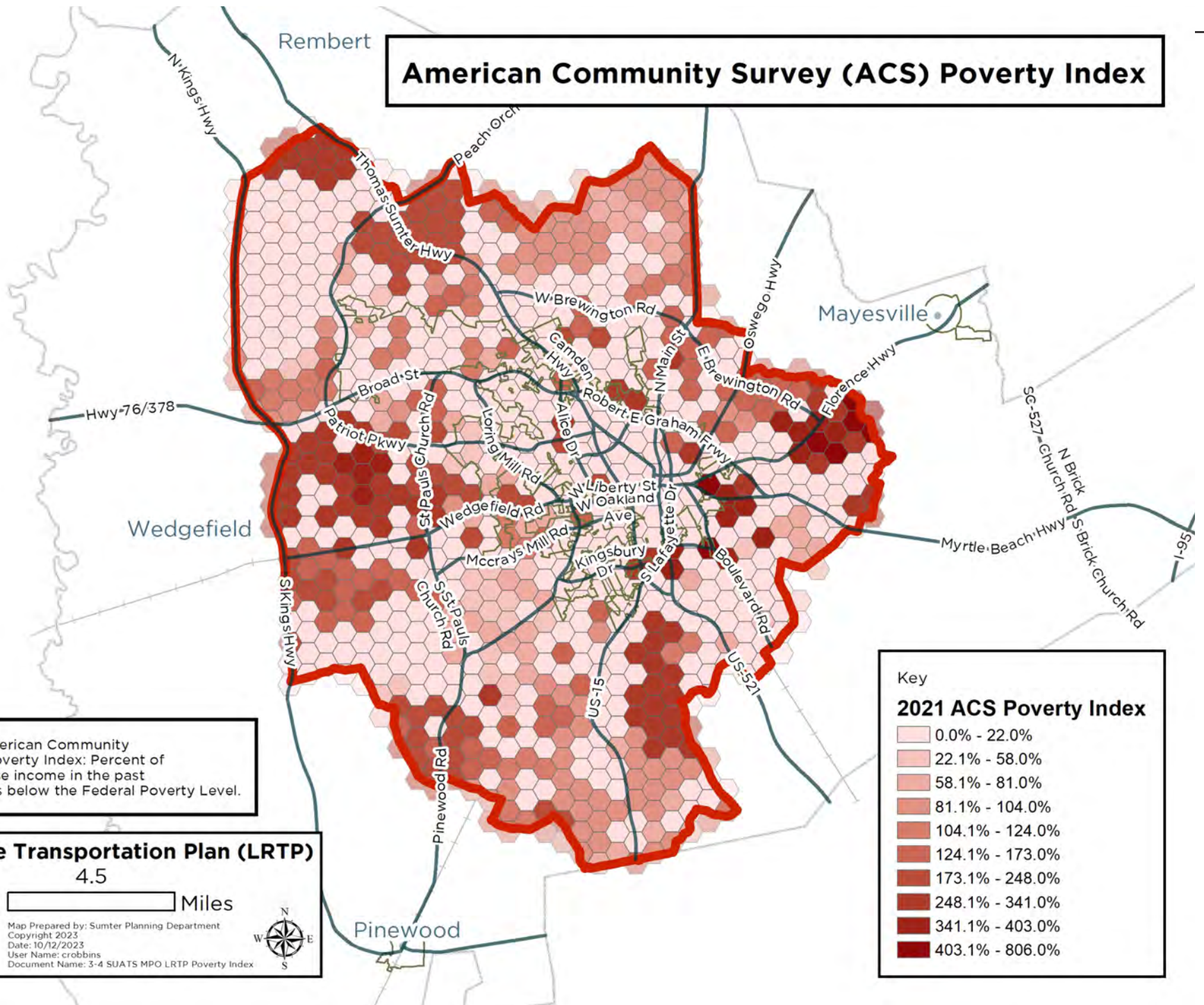
Map Prepared by: Sumter Planning Department
Copyright 2023
Date: 10/12/2023
User Name: crobbins
Document Name: 3-4 SUATS MPO L RTP Poverty Index

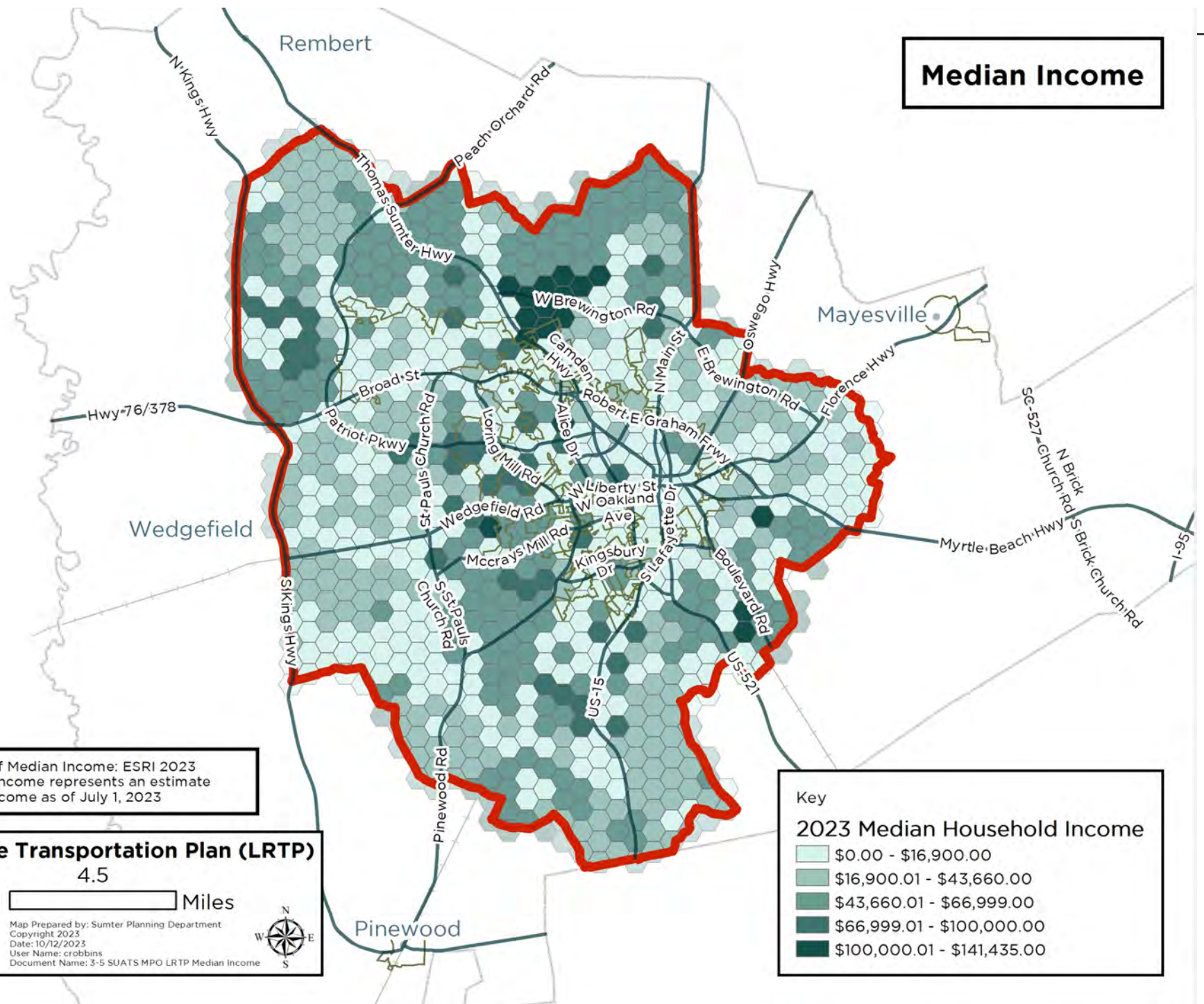


Key

2021 ACS Poverty Index

0.0% - 22.0%
22.1% - 58.0%
58.1% - 81.0%
81.1% - 104.0%
104.1% - 124.0%
124.1% - 173.0%
173.1% - 248.0%
248.1% - 341.0%
341.1% - 403.0%
403.1% - 806.0%





HISTORICALLY TRANSPORTATION DISADVANTAGED COMMUNITIES

101,500

2035 SUATS Population

41,200

Population in SUATS MPO living in a Disadvantaged Census Tract

46%

Percent of SUATS population living in a Disadvantaged Census Tract

USDOT utilizes a data-driven methodology to confront and address decades of underinvestment in disadvantaged communities. The methodology identifies Historically Transportation Disadvantaged Communities via Census Tract. When decision makers at all levels have the tools to understand how a community is experiencing disadvantage and can identify projects that create benefits that will reverse or mitigate those causes, the result is a higher quality of life and greater economic prosperity.

In exploring the cumulative burden communities experience, as a result of underinvestment in transportation, components tracked and assessed by the USDOT, include:

- **Transportation Insecurity** occurs when people are unable to get to where they need to go to meet the needs of their daily life regularly, reliably, and safely.
- **Health Vulnerability** assesses increased frequency of health conditions that may result from exposure to air, noise, and water pollution, as well as lifestyle factors such as poor walkability, car dependency, and long commute times.
- **Environmental Burden** includes variables measuring factors such as pollution, hazardous facility exposure, water pollution and the built environment. These environmental burdens can have far-reaching consequences such as health disparities, negative educational outcomes, and economic hardship.
- **Social Vulnerability** is a measure of socioeconomic indicators that have a direct impact on quality of life. This set of indicators measure lack of employment, educational attainment, poverty, housing tenure, access to broadband, and housing cost burden as well as identifying household characteristics such as age, disability status and English proficiency
- **Climate and Disaster Risk Burden** reflects sea level rise, changes in precipitation, extreme weather, and heat which pose risks to the transportation system. These hazards may affect system performance, safety, and reliability.

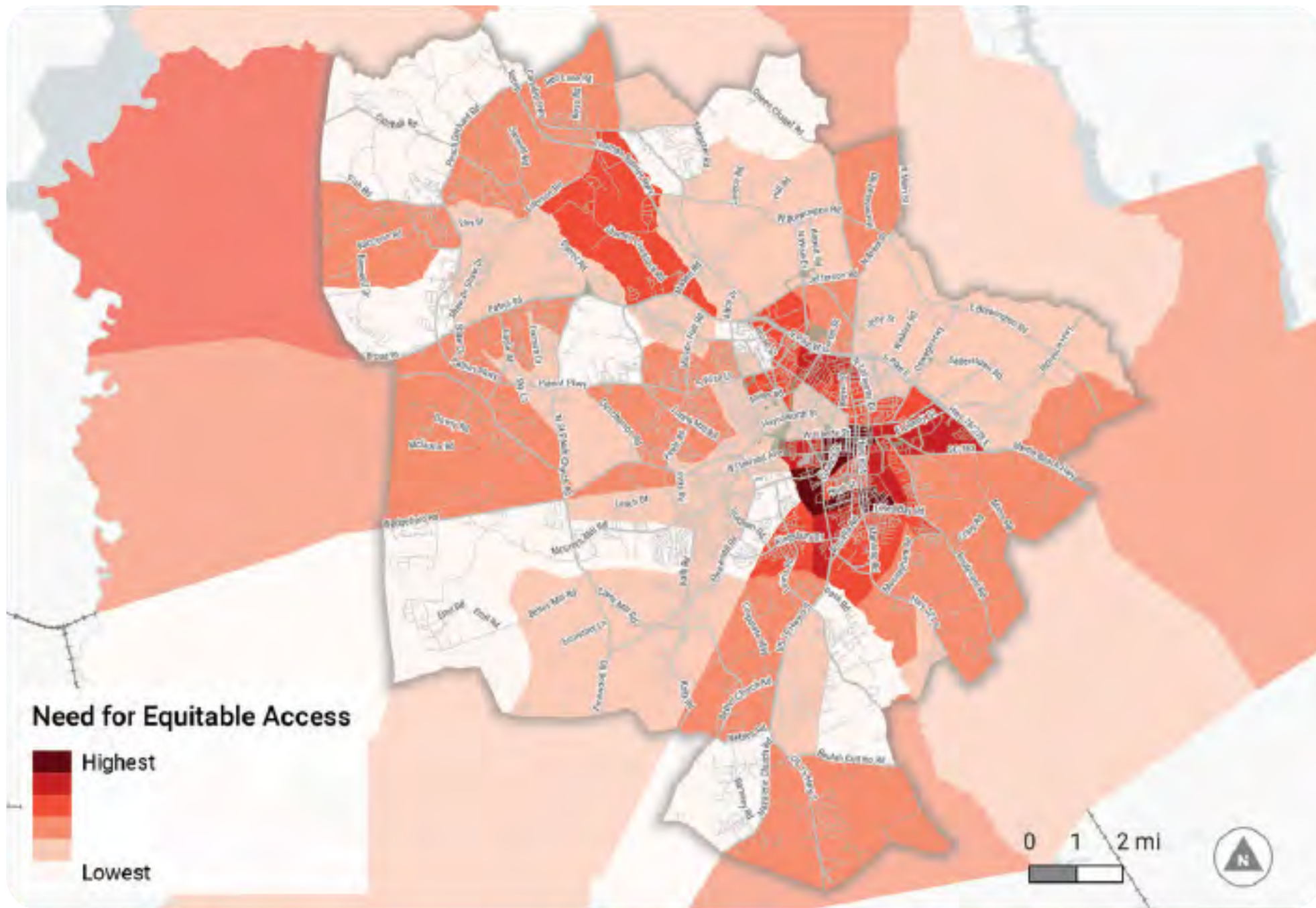
RACE AS AN INDICATOR OF DISADVANTAGE

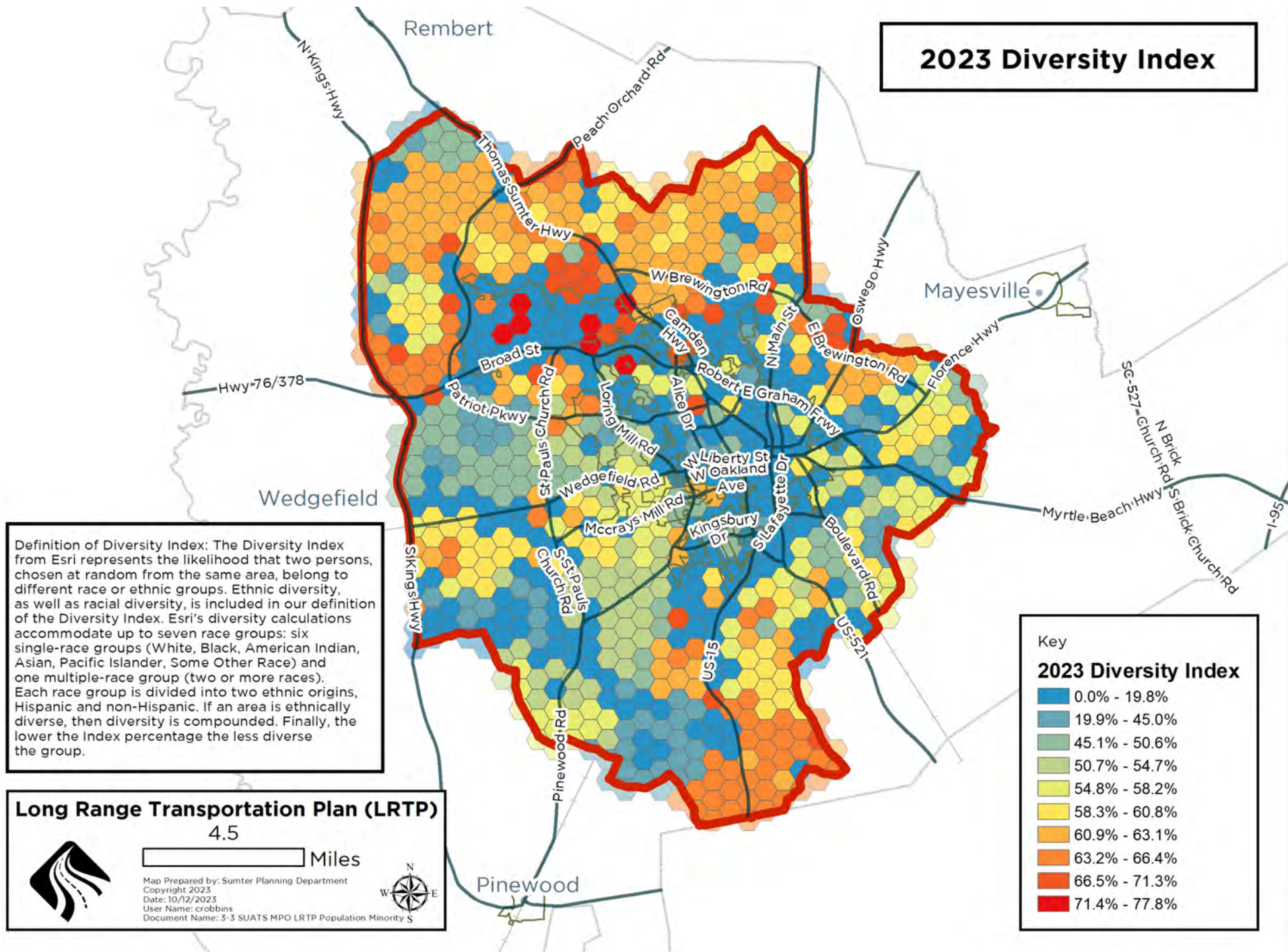
The overall racial composition of the MPO can be characterized as balanced, with fairly even proportions of Black and White residents. These two groups are the predominant racial groups in the Sumter community at large. The percentage for American Indian, Asian, Pacific Islander, and individuals identifying as some other race are each under 2.0%. These groups are slightly underrepresented when compared to the state as a whole, and well underrepresented when compared to the nation as a whole.

Despite the overall numerical balance between Black and White residents, the geographic areas where each racial group tends to live generates concentrations of Black residents in certain areas, particularly around Morris College and South Sumter, and concentrations of White residents in areas including Second Mill and the Loring Mill Rd areas.



TRANSPORTATION DISADVANTAGED CENSUS TRACTS





American Community Survey (ACS) No Vehicle

Definition of American Community Survey (ACS) Households with Vehicle Counts: Each hexagon represented households without any vehicle are empty. The remainder of the hexagons have a count in the Key.

Long Range Transportation Plan (LRTP)

4.5



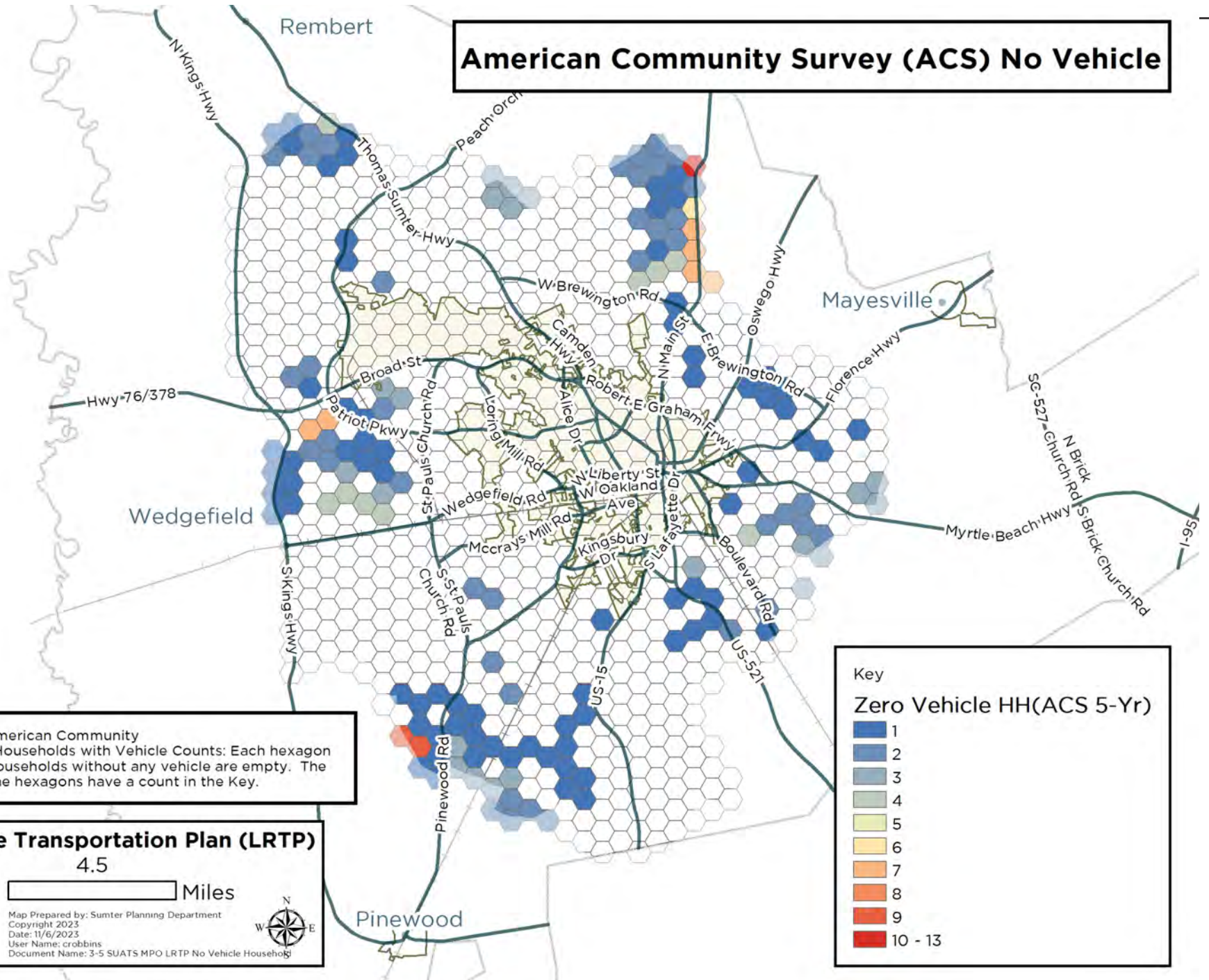
Map Prepared by: Sumter Planning Department
Copyright 2023
Date: 11/6/2023
User Name: crobbins
Document Name: 3-5 SUATS MPO LRTP No Vehicle Households



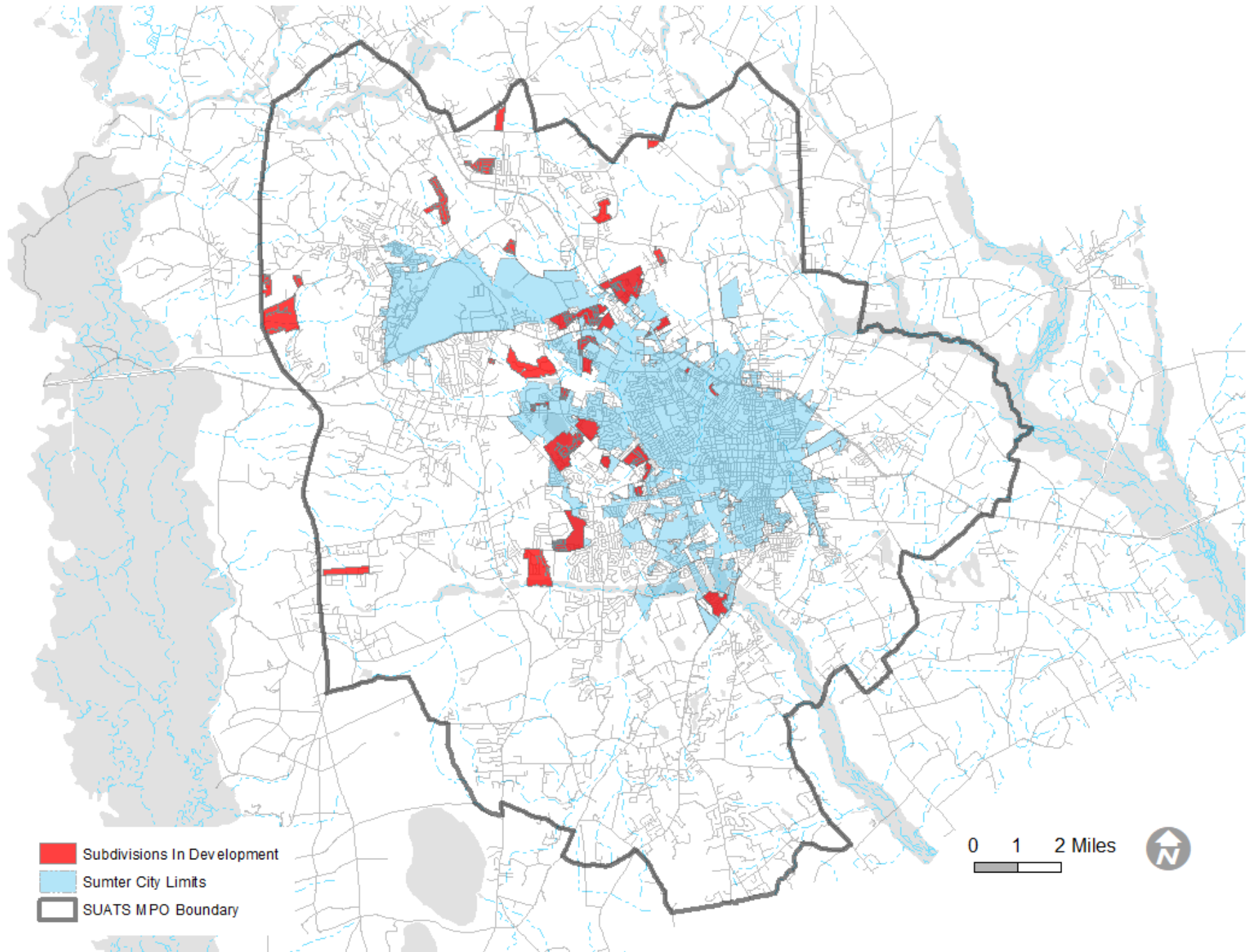
Key

Zero Vehicle HH(ACS 5-Yr)

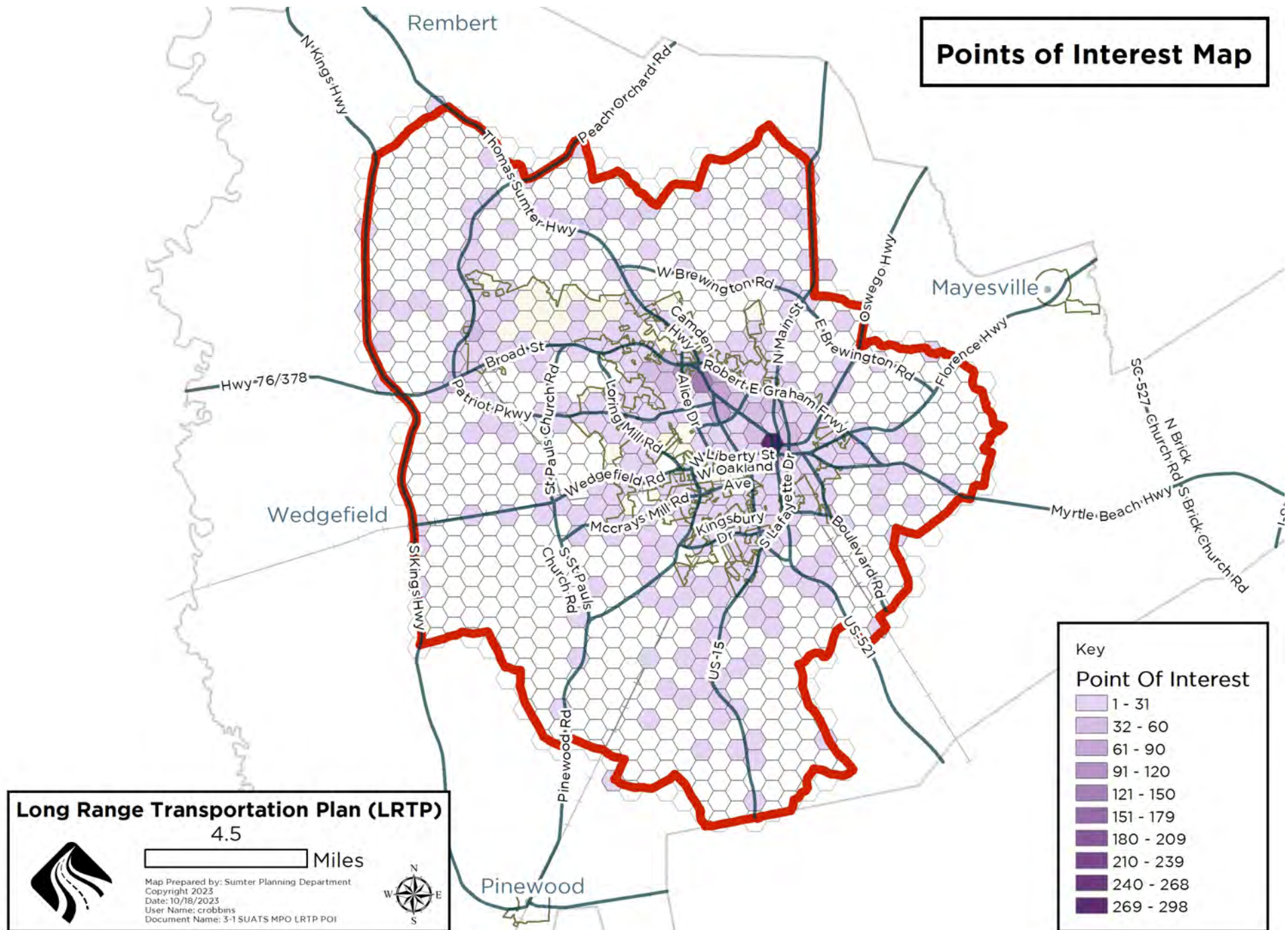
- 1
- 2
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- 6
- 7
- 8
- 9
- 10 - 13



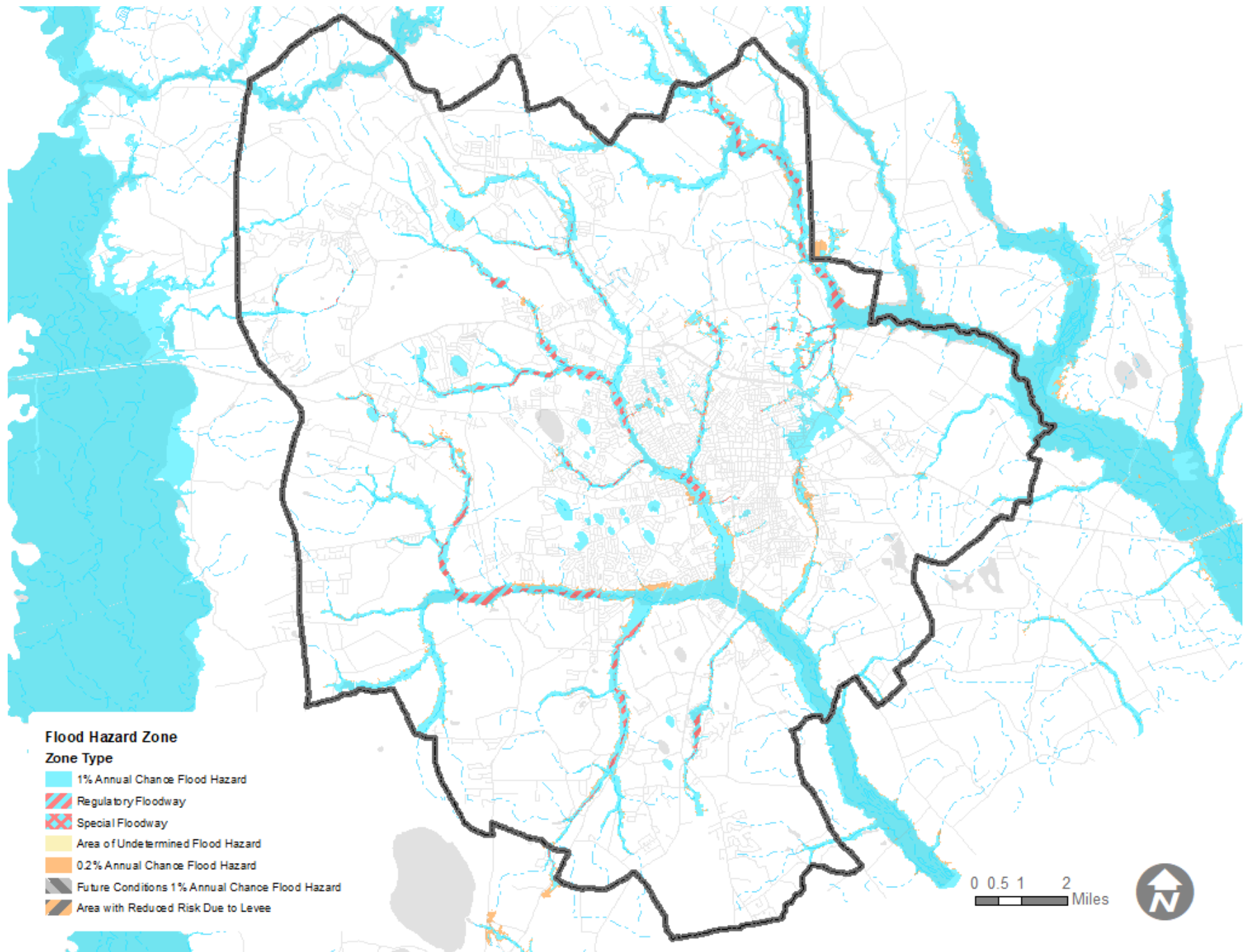
ACTIVE RESIDENTIAL SUBDIVISIONS UNDER CONSTRUCTION



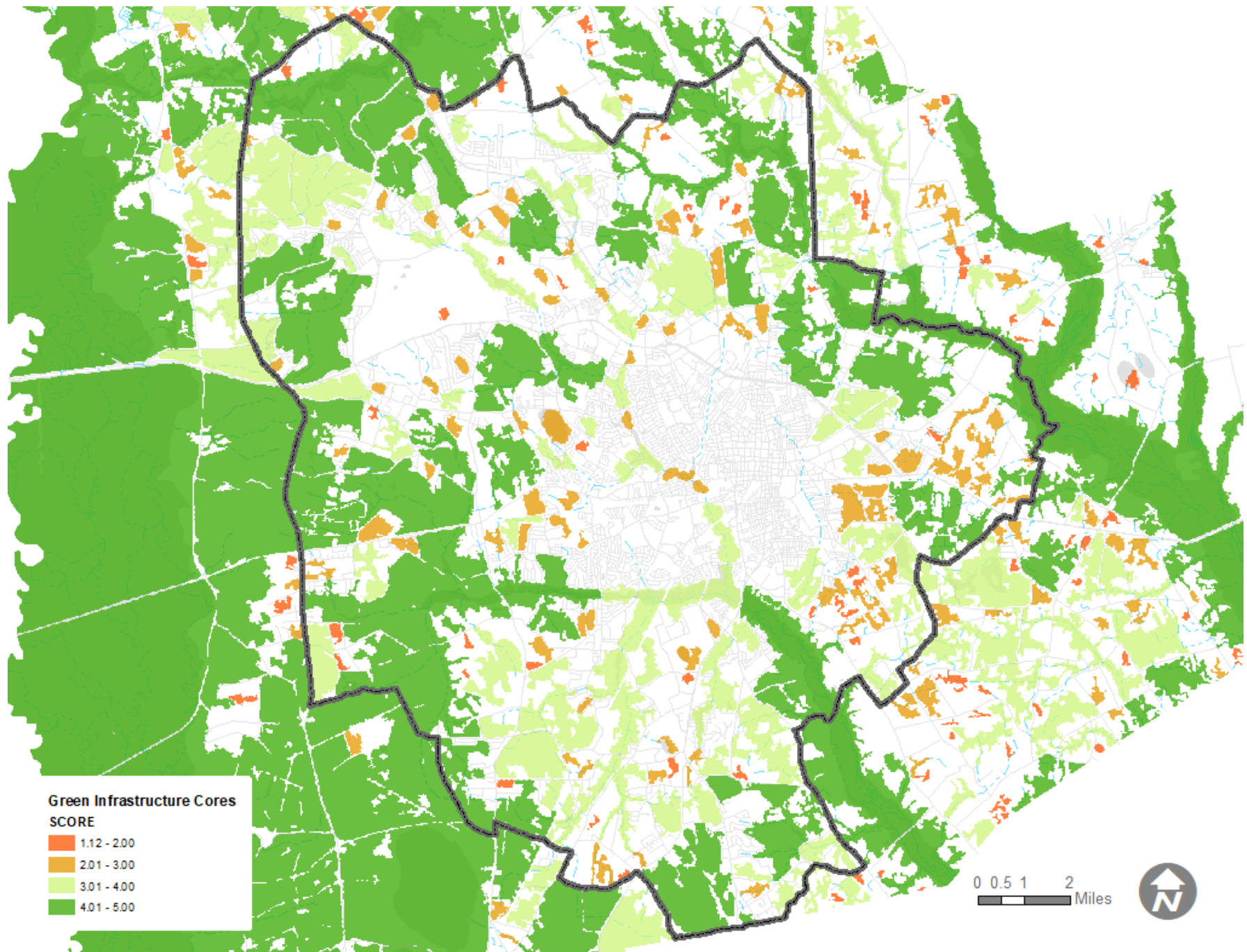
COMMUNITY POINTS OF INTEREST DENSITY



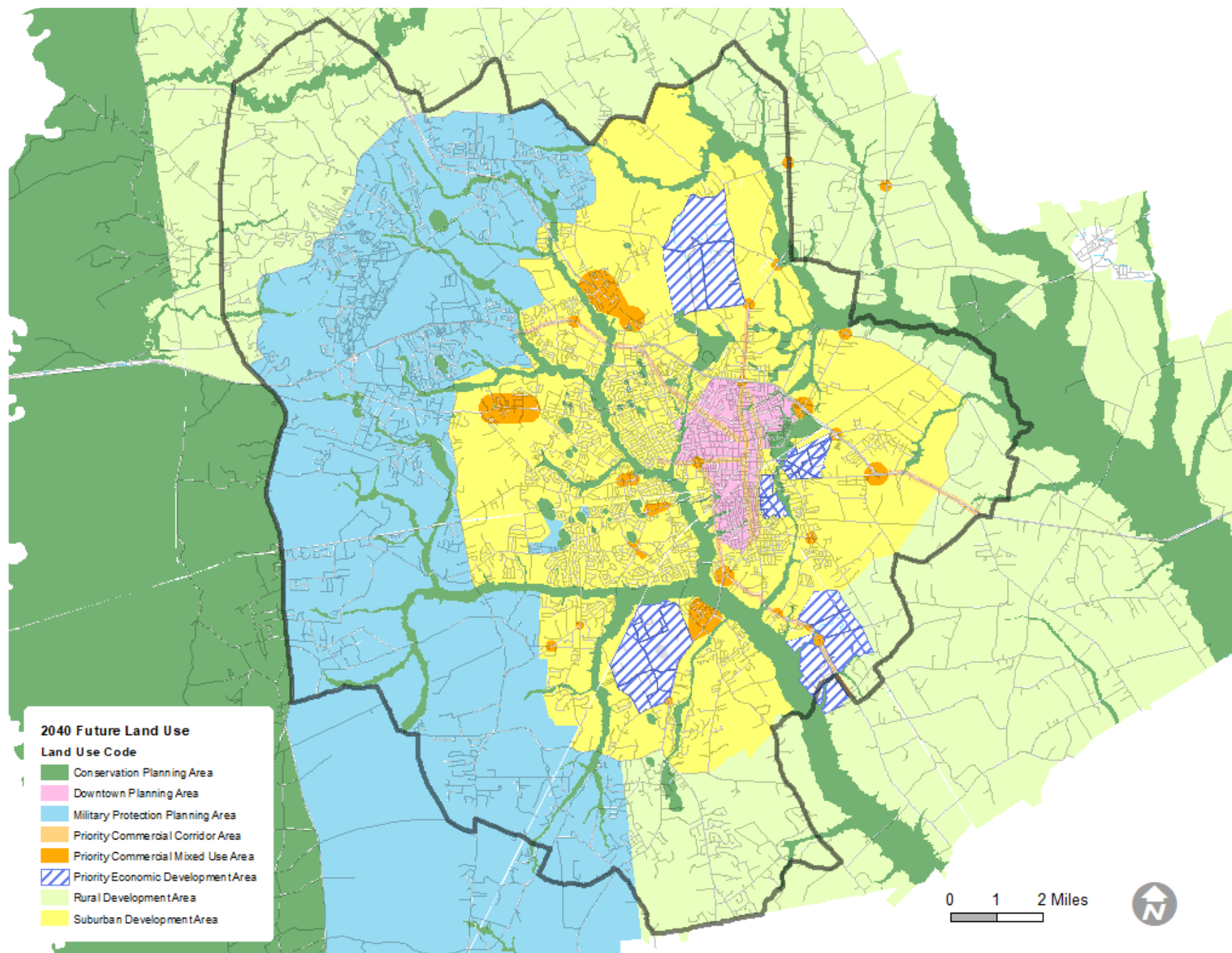
NATURAL RESOURCES (FLOODPLAINS) MAP



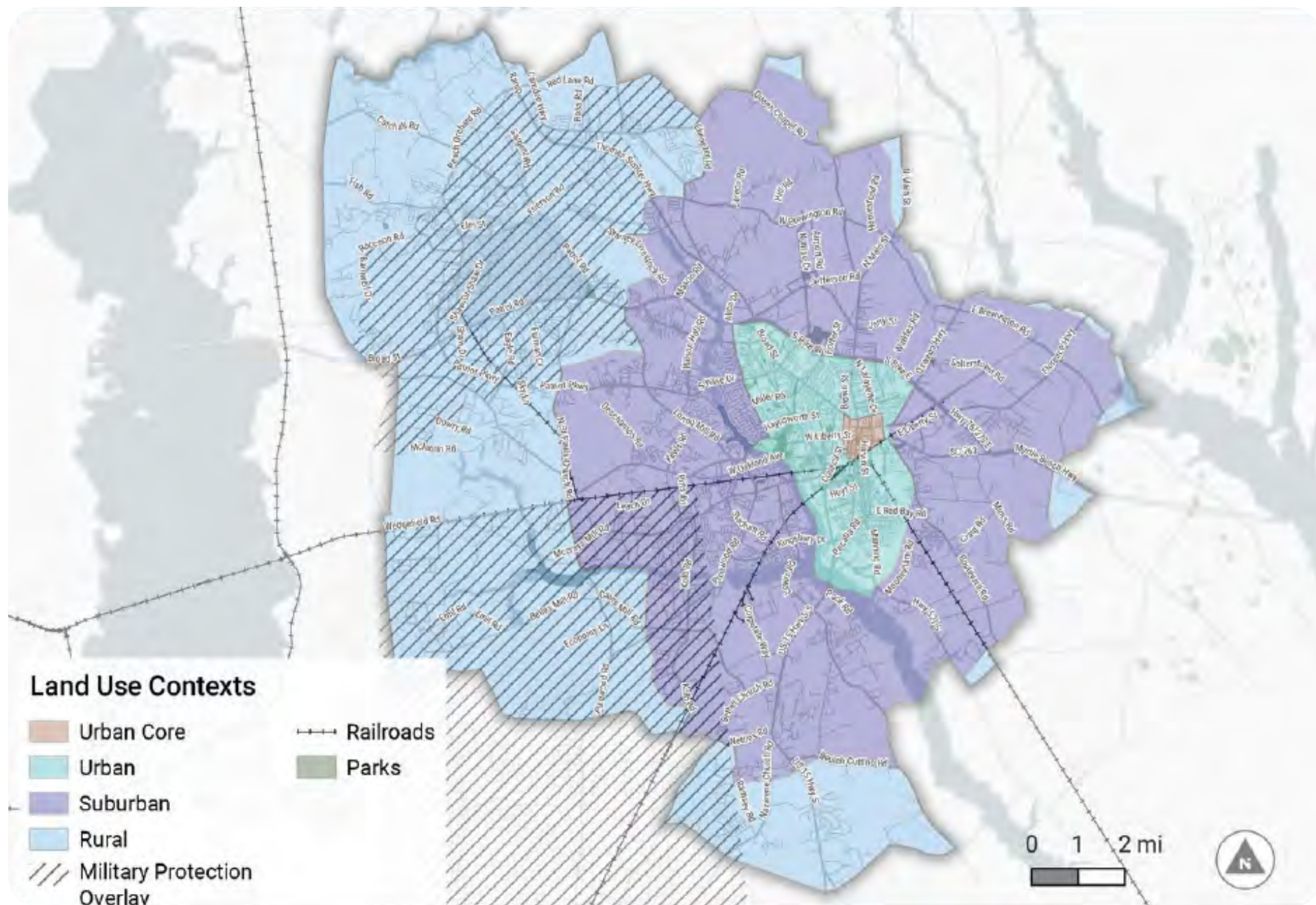
NATURAL RESOURCES (GREEN INFRASTRUCTURE) MAP



SUMTER 2040 COMPREHENSIVE PLAN FUTURE LAND USE MAP



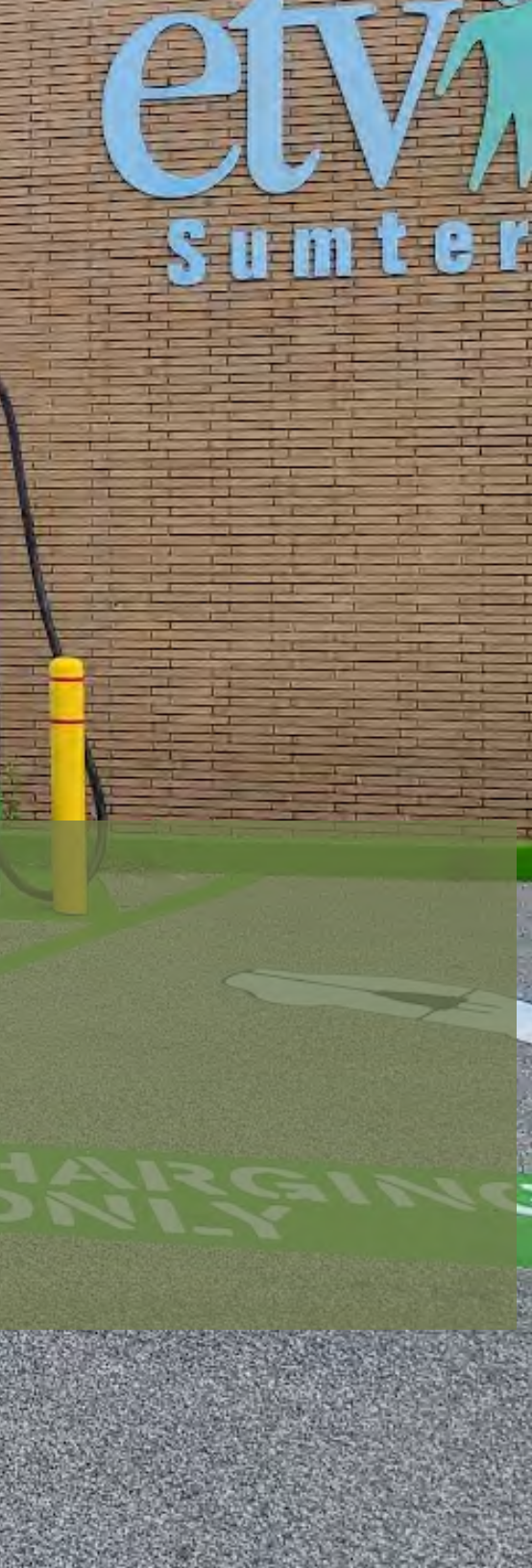
GENERALIZED LAND USE CONTEXTS





CHAPTER 5

TRANSPORTATION DEMAND AND EMERGING TECHNOLOGIES



CHAPTER 5

ELECTRIC VEHICLES (EVs)

E-COMMERCE

AUTONOMOUS VEHICLES

MOBILITY AS A SERVICE (MAAS)

New technologies and emerging trends offer unprecedented opportunities to build a transportation system that works better for our environment and our health. Electric vehicles, ride-sharing services, autonomous car, and advances in information technology, as well as improved bicycling and pedestrian infrastructure, offer new ways to reduce greenhouse gas emissions, make land use more efficient and improve air quality.

ELECTRIC VEHICLES (EV)

Electric Vehicles (EVs) offer increased fuel efficiency for personal vehicle owners. Public transit vehicle fleets are also adopting electric vehicles and other alternative fuels to cut fuel use and costs.

Compared to traditional vehicles, which work by burning gasoline or diesel fuel, EVs are powered by electricity stored in a rechargeable battery. This means fewer moving parts and fluids than gas-powered vehicles. The trade-off for this limited maintenance need is the requirement to establish a new network of vehicle charging infrastructure.

The market for EVs has grown rapidly in recent years. That growth is expected to continue over the coming decade. Electric car sales in the United States increased from a mere 0.2% of total car sales in 2011 to 4.6% in 2021.¹

Forecasts for the rate of EV adoption over the next decade vary widely given rapid changes in both government policies and the auto manufacturing industry in recent years. However, many forecasts expect a strong acceleration in EV adoption. S&P Global Mobility forecasts electric vehicle sales in the United States could reach 40% of total passenger car sales by 2030. More optimistic projections foresee electric vehicle sales surpassing 50% by 2030.²

As an impact on the SUATS transportation system, EVs are similar to traditional gas powered vehicles in many ways, save for two notable exceptions:

First, EVs use of electricity means that gasoline taxes - one of the largest components of traditional roadway improvement and maintenance funding - will be directly impacted, requiring identification of alternate funding mechanisms for roadway work.

Second, need for various ways to recharge EVs requires a fundamentally different approach to electrical infrastructure, both due to the availability of technology to charge these vehicles at various rates based on available voltage, as well as the physical locations of these charging stations.

¹ Data includes plug-in hybrids. For more information, see "Global EV data explorer," International Energy Agency (IEA), <https://www.iea.org/data-and-statistics/data-tools/global-ev-data-explorer>.

² Stephanie Brinley, "EV chargers: How many do we need?" S&P Global Mobility, January 9, 2023, <https://www.spglobal.com/mobility/en/research-analysis/ev-chargers-how-many-do-we-need.html>

The demand of EVs on the power grid is also still being evaluated by both transportation agencies as well as public and private utilities.

One thing worth noting is that as with any disruptive technological force, it is often important to cast assumptions aside. This is especially true with EVs, in which typical patterns of travel and re-filling of gas tanks may not hold true in terms of how EV users will charge their vehicles between uses.

Table 5.1 - Electric Vehicle Charging Types

Charging Type	Quick Facts
Level 1 - Standard 120-Volt outlet	Up to 5 miles of range per hour No installation required – every EV will come with a standard Level 1 charger that you can drive home and plug into the wall Best used for overnight charging and low-mileage daily driving – a good option for plug-in hybrid vehicles because of their smaller batteries
Level 2 - 240-Volt Outlet	Average of 25 miles of range per hour Often found in public areas (rest areas, shopping centers, restaurants, etc.) Can be either hardwired or plugged into an existing 240-volt outlet (dryer plug) Best for quick charging – can get a full charge from empty overnight (8-10 hours)
Level 3 - DC Fast Charging	Fastest electric car charging option – provides up to 250 miles of range per hour Can charge up to 80% typically in about 20 to 30 minutes Used to facilitate longer distance driving or road trips or for a quick recharge

E-COMMERCE

Electronic commerce (e-commerce) represents the use of electronic devices and technologies to buy and sell goods or services, primarily over the Internet. E-commerce has grown substantially over the past 2 decades with widespread use of online retailers such as eBay and Amazon. The increase of e-commerce decentralizes traditional distribution methods and delivery of goods, increases the labor intensity of logistics operations, and is heavily influenced by automation and technological advances.

According to the U.S. Census Bureau, online sales as a share of total retail sales have been growing, from 5% of the total retail sales in 2011 to almost 14% in 2020. E-commerce sales totaled \$792 billion in 2020, an increase of 32% since 2019. Moreover, in 2020, the South Carolina Commerce Department noted that Cyber Monday sales were over 15 percent higher than the year prior, totaling \$10.8 billion. In 2022, e-commerce sales accounted for 15% of total retail sales in the second quarter of 2022, a seven percent increase from the second quarter of 2021. The COVID-19 pandemic accelerated this trend. One estimate based on Adobe Digital Insights data found that COVID-19 accelerated e-commerce growth by 4 to 6 years in a matter of months as lockdowns forced consumers to purchase more goods online.

As homes replace retail locations as freight destinations, the distribution and delivery of good becomes decentralized and regional distribution needs increased. As a result, re-purposing land uses for regional distribution warehouses is likely.

E-commerce relies heavily on the trucking industry, with long-haul transport, regional and urban transfers, followed by last-mile trips, usually completed through the U.S. Postal Service, private fleet delivery vehicles or app-based delivery services. In addition, increased road freight carrier needs exacerbate the driver and workforce shortages, of all skill levels, in the trucking industry.

As e-commerce has grown, consumer demand for faster home delivery

has also grown. The growth in home deliveries, has increased the need for last-mile direct to consumer truck trip solutions and research into delivery technologies. Last-mile delivery is becoming a critical differentiator and a strategic priority. More recently, e-retailers have implemented centralized customer pick-up lockers, private fleets of delivery vehicles, and new delivery technologies (e.g., robots and drones) to supplement other last-mile services.

More delivery vehicles entering residential neighborhoods and more frequent deliveries is expected to cause increased congestion and wear and tear to the local road network.



Rapid advances in digital technology and automation are expected to continue to influence e-commerce logistics, while also increasing the demand on communication infrastructure and utilities that support automation. In South Carolina, the logistics industry's reliance on technology tripled between 2010 and 2020. Retailers are expected to continue to look for opportunities to increase same-day delivery options and force a growing need for shortening the last-mile delivery distance.

AUTONOMOUS VEHICLES

Autonomous vehicles have the potential to revolutionize the way people and goods move. While autonomous vehicle technology is still being developed and tested, there is growing speculation regarding the impact the technology will have on American society. One vision of the future suggests that autonomous vehicles will reduce car ownership as people share cars and request them when needed, thereby changing the commercial landscape through reduced parking, maintenance, and volume needs. In this future, autonomous vehicles would dramatically decrease vehicle crashes by removing human error from the equation. Moreover, those unable to drive, including the elderly or disabled, would benefit from increased mobility. Shared autonomous vehicles could also dramatically reduce vehicle costs by spreading the cost burden across multiple individuals or households.

An alternative vision contends that if autonomous vehicles are not electrified or shared, it will increase congestion and greenhouse gas emissions. In this future, autonomous vehicles could promote further urban sprawl because commute times would be less of a concern for people, allowing them to live further from the workplace. Additionally, in this future, widespread use of autonomous vehicles would require a paradigm shift in the way people view their cars and driving, a challenge in a car-centric society. These skeptics argue that unless policy solutions are developed, such as congestion pricing, reduced parking, and strengthened environmental regulations, the negative impacts of autonomous vehicles could outweigh the positive.



CARMA Autonomous Vehicle Research and Testing Platform (Source: FHWA)

culture currently in place in more populated areas via services like Uber, Lyft, and Zipcar does not yet exist, and is not expected to be in wide use in the near term.

Additionally, the policy changes necessary to strongly encourage people to use shared autonomous vehicles are unlikely to be popular in the region absent major external forces, such as federal policy and major financial investment.



Illustration: Connected vehicles can help to prevent crashes at busy intersections. (Source: USDOT)

IMPACT ON SUATS

The impacts of autonomous vehicles in the SUATS MPO would be akin to other regions, though it is expected that the transition to autonomous vehicles may be somewhat slower in the Sumter area as the car-sharing

MOBILITY AS A SERVICE (MAAS)

Mobility as a service (MaaS) is a type of service that enables users to plan, book, and pay for multiple types of mobility services. The concept describes a shift away from personally-owned modes of transportation and towards mobility provided as a service instead. This is enabled by combining transportation services from public and private transportation providers through a unified gateway that creates and manages the trip. Users can pay per trip or a monthly fee for a limited distance.

Together with other emerging vehicular technologies such as automated driving, connected cars and electric vehicles, MaaS is contributing to a new type of future mobility, which is autonomous, connected, electric and shared vehicles.

TREND TOWARDS MOBILITY AS A SERVICE

Booming demand for more personalized transport services has created a market space and momentum for MaaS. The movement towards MaaS is fueled by a myriad of innovative new mobility service providers such as carpool and ridesharing companies, bicycle-sharing systems programs, scooter-sharing systems, and carsharing services. On the other hand, the trend is motivated by the anticipation of self-driving cars, which puts into question the economic benefit of owning a personal car over using on-demand car services, which are widely expected to become significantly more affordable when cars can drive autonomously.

This shift is further enabled by improvements in the integration of multiple modes of transport into seamless trip chains, with bookings and payments managed collectively for all legs of the trip. Between multiple modes, trips, and payments, data is gathered and used to help people's journeys become more efficient. In the government space, the same data allows for informed decision-making when considering improvements in regional transit systems.

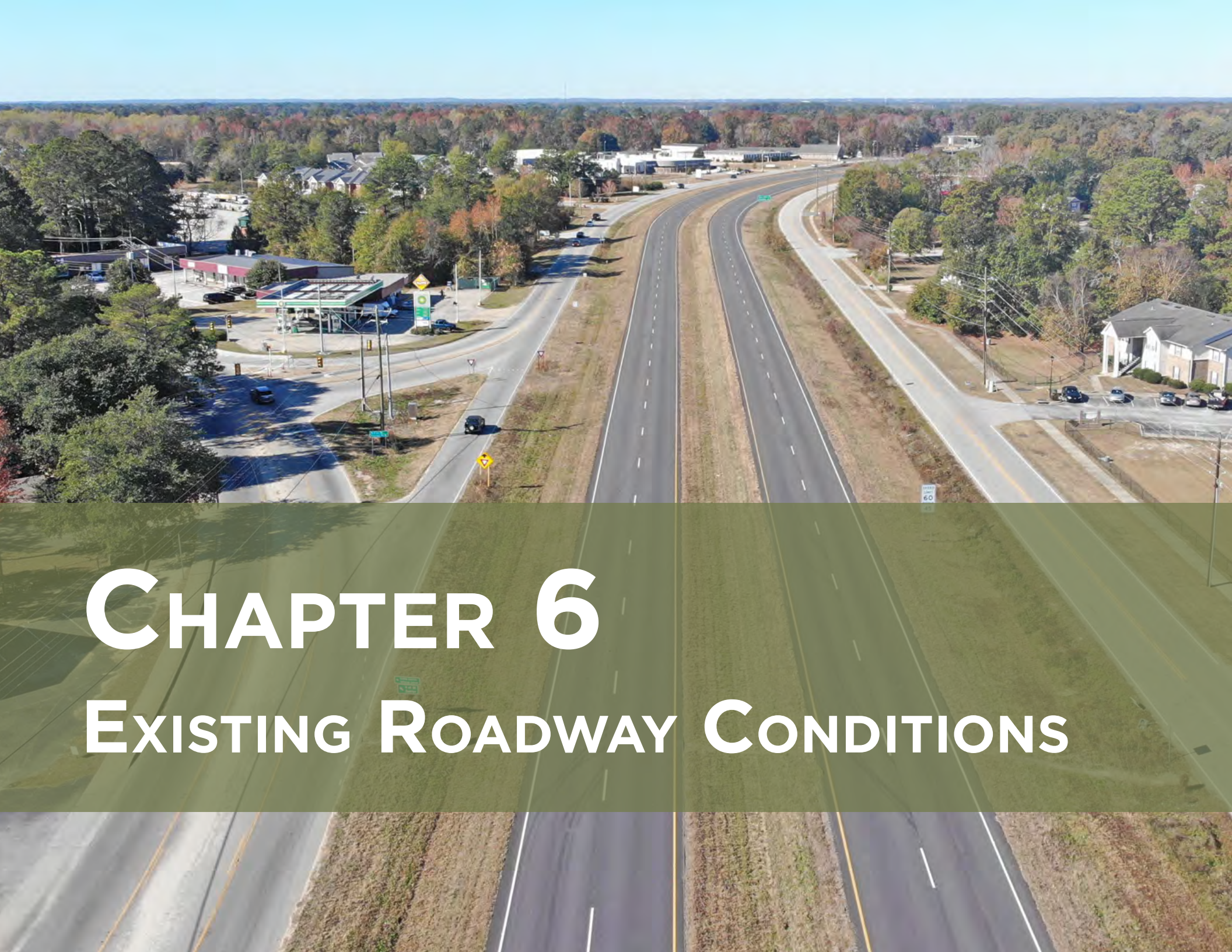
POTENTIAL IMPACTS

MaaS may lead to a decline in personal car ownership over the long term. MaaS could also significantly increase the efficiency and utilization of transit providers that contribute to the overall transit network in a region. Ultimately, a more efficient network coupled with new technology such as autonomous vehicles could significantly reduce the cost of public transit.

MaaS could also improve ridership habits, transit network efficiency, decrease costs to the user, improve utilization of MaaS transit providers, reduce city congestion as more users adopt MaaS as a main source of transit, and reduce emissions as more users rely on public transit component, autonomous vehicles in a MaaS network.



Excerpt from Mobility-as-a-Service (MaaS) presentation by Pete Costello, Associate Vice President, Iteris (<https://www.arcweb.com/blog/mobility-service-arc-smart-city-forum>)



CHAPTER 6

EXISTING ROADWAY CONDITIONS



CHAPTER 6

EXISTING ROADWAY CONDITIONS

CORRIDORS AND ACTIVITY CENTER

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CORRIDOR CRASHES

EXISTING ROADWAY CONDITIONS

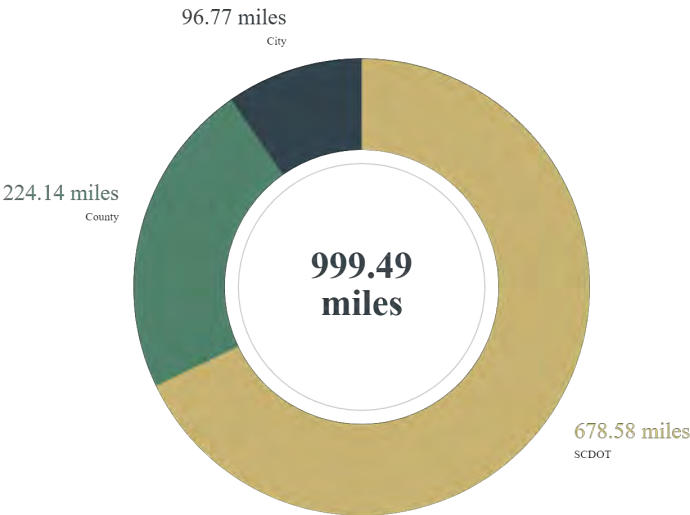
Sumter is approximately 15 miles west of I-95 and 18 miles south of I-20. Established by colonial settlers in the 1740s, the city has grown into the 10th largest metropolitan area in South Carolina. Within the MPO, Shaw Air Force Base, Sumter School District, Pilgrims Pride Poultry Processing, Continental Tire, and Prisma Health are the largest employment centers and attract numerous peak hour trips each day.

The majority of significant commercial development in the county is located along primary transportation corridors such as US-378, US-521, and US-15. In the future, planned development will result in increased traffic volumes, similar to that currently generated by major employers and commercial developments in the area.

ROADWAY OWNERSHIP

There are nearly 1,000 miles of publicly owned and maintained roadway centerlines within the SUATS MPO of which the County owns 22%, the City owns 10%, and the South Carolina Department of Transportation (SCDOT) owns 68%.

Table 6.1 - Ownership of Public Roadways in SUATS MPO



As commercial development continues and population increases, traffic volumes can be expected to climb. This increase in traffic volumes will create new deficiencies on the existing transportation network. Traffic bottlenecks may become evident in places that currently function adequately and existing deficiencies will be magnified.

Evaluating the existing transportation system helps to better identify needs and priorities for the purposes of planning. The discussion of existing highway conditions is organized into the following sections:

- Corridors and Activity Corridors
- Functional Classifications
- Corridor Operations (V/C, LOS)
- Safety and Crash History

TRANSPORTATION CORRIDORS AND ACTIVITY CENTERS

An inherent relationship exists between land use and transportation. Roadway improvements often enhance access to an area, thus increasing property values and attracting more development.




The interactivity between activity centers and the transportation corridors that link them to other centers and destinations is important, as are the mobility choices that are provided within the center. Often neighborhoods and activity centers rely on a small number of transportation corridors to provide essential links between home, school, employment, shopping, social, and recreation destinations.

The extent to which these origins and destinations blend into multi-purpose activity centers has a dramatic effect on a person’s ability to choose between modes for their trip. In many cases, the range of trip alternatives (walk, bike, drive, or transit) also can influence the overall perception of a community.

The level of success for corridors within and between activity centers depends in large part on the intended function of the street. A unique challenge for the future will be to balance the area’s mobility needs with other priorities. Often traffic mobility has been given priority without regard for other considerations such as the function of the street, corridor relationship to land use, urban design, and the promotion of alternate modes.

CORRIDORS AND ACTIVITY CENTERS

Table 6.2 - Activity Centers

Center Type	Characteristics
<p>Regional Activity Center</p> <p><u>Local Example</u></p> <ul style="list-style-type: none"> Central Business District <p><u>Transportation Corridor</u></p> <ul style="list-style-type: none"> Main Street 	 <ul style="list-style-type: none"> Large-scale, transit supportive center of employee-intensive land uses Core areas contain large-scale and high intensity urban land uses supported by and serving communities Accessed by freeways, major arterials, and public transportation Higher residential densities
<p>Community Activity Center</p> <p><u>Local Example</u></p> <ul style="list-style-type: none"> Second Mill <p><u>Transportation Corridor</u></p> <ul style="list-style-type: none"> Pinewood Road/Wedgefield Road 	 <ul style="list-style-type: none"> Include a combination of retail, personal services, civic, educational, and social uses Core areas contain medium-scale development that serves the day-to-day needs and activities of residents Accessed by major arterials and public transportation Medium density residential areas
<p>Neighborhood Activity Center</p> <p><u>Local Example</u></p> <ul style="list-style-type: none"> Wilson Hall Neighborhood <p><u>Transportation Corridor</u></p> <ul style="list-style-type: none"> South Wise Drive 	 <ul style="list-style-type: none"> Mostly residential with a mixed-use core that serves as the focal point for the neighborhood and provides retail and service needs. Accessed by major and minor arterials with integrated collector street access Mixture of low and medium density residential areas

STREET NETWORKS

WHY ARE STREET NETWORKS IMPORTANT?

Street Networks are the backbone upon which we build communities. Good street network designs reduce land consumption, provide greater accessibility through more direct routes, and increase overall network efficiency and reliability through added redundancy. They also affect several factors that relate to building more sustainable communities such as travel patterns, road safety, and public health.

Great street design, in isolation, is not enough. The expected benefits can only be realized in concert with great network design. While policies such as those related to Complete Streets are important, focusing on street-level solutions without considering the overall street network results in an incomplete city.

One of the challenges in creating a successful transportation system for the SUATS region is blending connectivity and access functions with preservation of natural features and the unique character of the area.

Neighborhoods and smaller communities within the region may have different needs and priorities. While recognizing these differences, it is important not to lose focus of the practical concept of overall connectivity. This concept is particularly relevant as it relates to people's desires to make safe and efficient trips not only by driving, but also by walking, bicycling, or using public transportation.

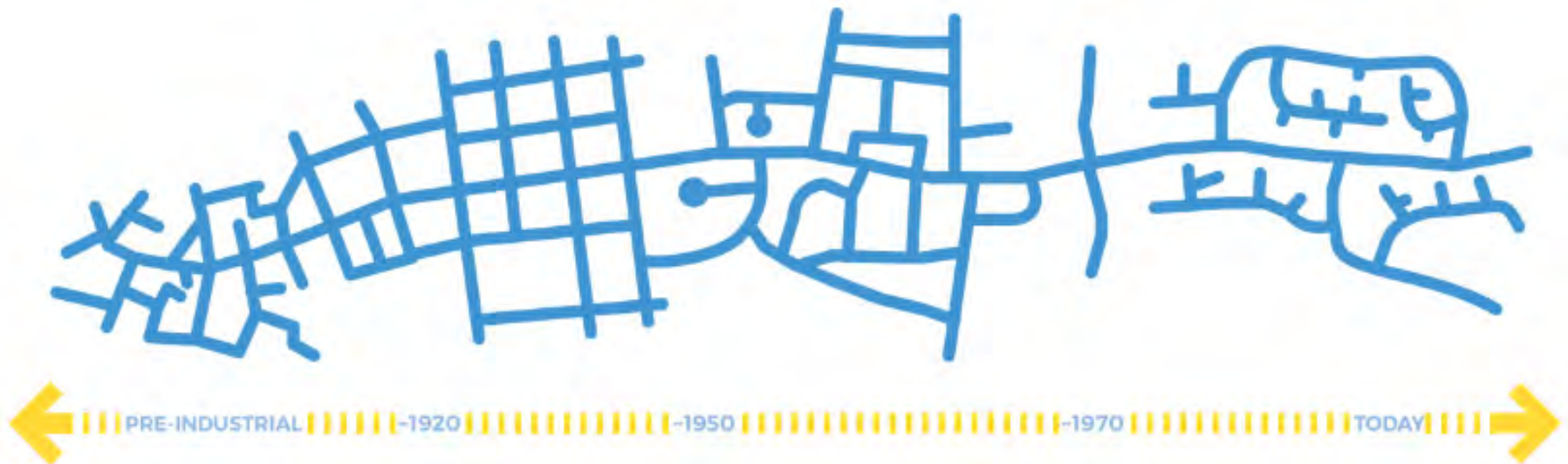
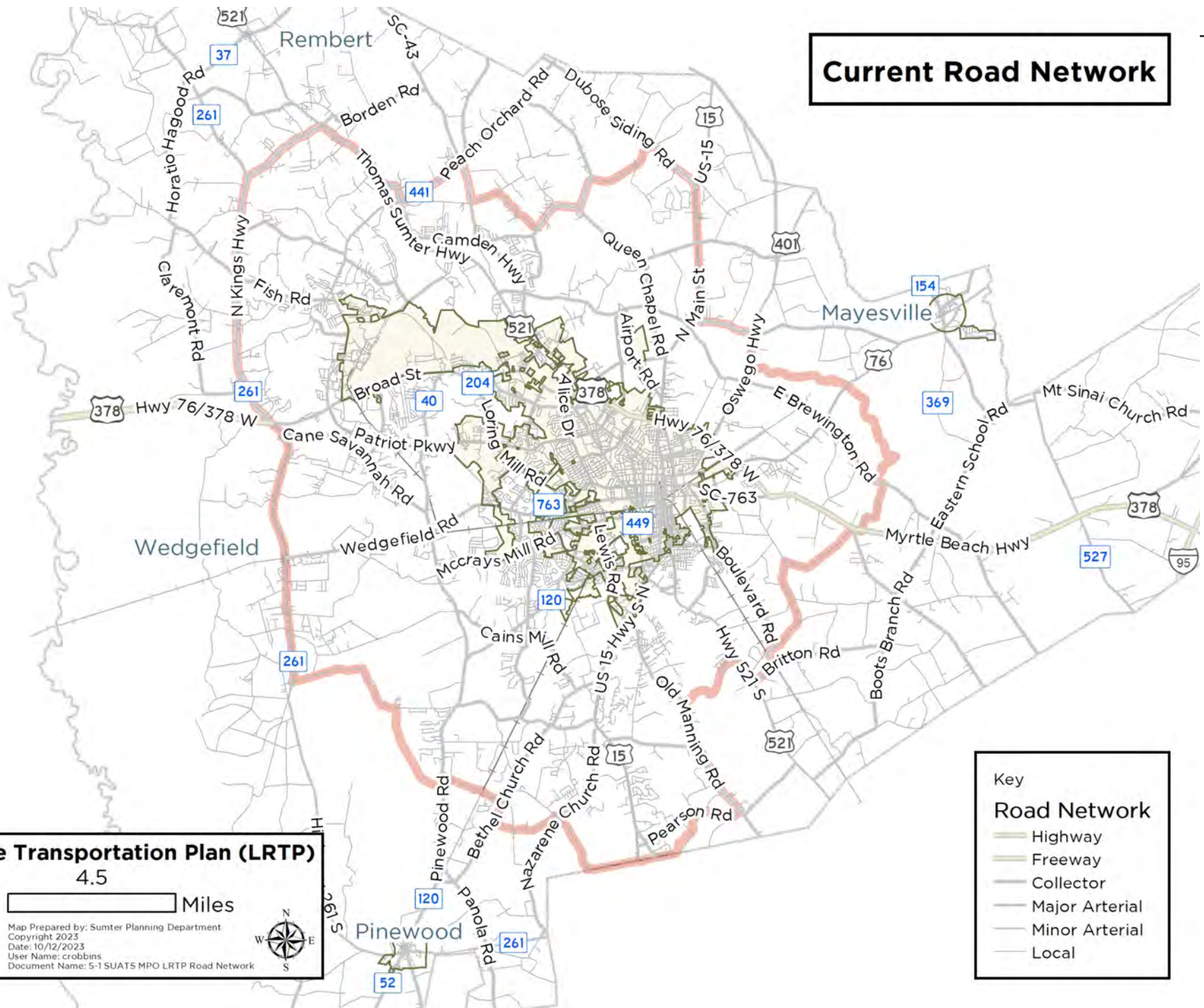


Figure 6.3 - Evolution of Street Networks in America

Adapted from "Street Networks 101", by Congress on New Urbanism, as adapted from "Street Networks" in the International Handbook on Transport and Development



FUNCTIONAL CLASSIFICATION

FUNCTIONAL CLASSIFICATION

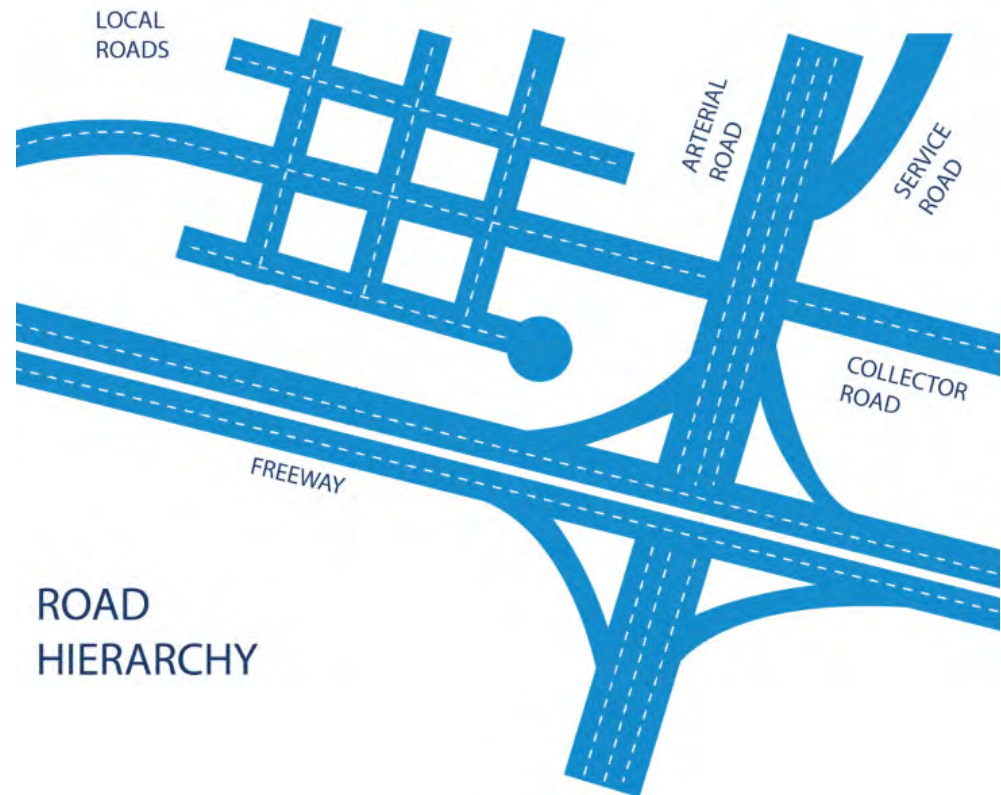
The classification of streets into several “functional” categories aids in communication among policy makers, planners, engineers, and citizens for expanding the transportation system. The functional classification system groups streets according to the land use served (or to be served) and provides a general designation of the type of traffic each street is intended to serve. The functional classification system primarily defines the street in terms of roadway design and character, as well as operational features for the movement of vehicles.



Two major considerations for classifying arterials from neighborhood streets are access and mobility. The primary function of local or neighborhood streets is to provide access. These streets are intended to serve localized areas or neighborhoods, including local commercial and mix-use land uses (i.e. low speeds, low volumes, short distances). Local streets are not intended for use by through traffic. The primary function of arterials is mobility. Limiting access points (intersections and driveways) on arterials enhances mobility. Too much mobility at high speeds limits access by pedestrians and bicyclists. The arterial is designed with the intent to carry more traffic than is generated within its corridor (i.e. higher speeds, higher volumes, and longer distances).


Classifying the SUATS street system required close examination of roles that each street performs in the overall transportation system. The Sumter City-County Planning Department worked with SCDOT in 2012 to update the MPO's functional classification network, and within the last 2 years, several targeted functional classification adjustments have been made to reflect actual patterns of use. As a result of these exercise, the existing public street network in Sumter is divided into several functional classifications, including freeways, major arterials, and collector streets.

Figure 6.4 - Road Hierarchy Diagram


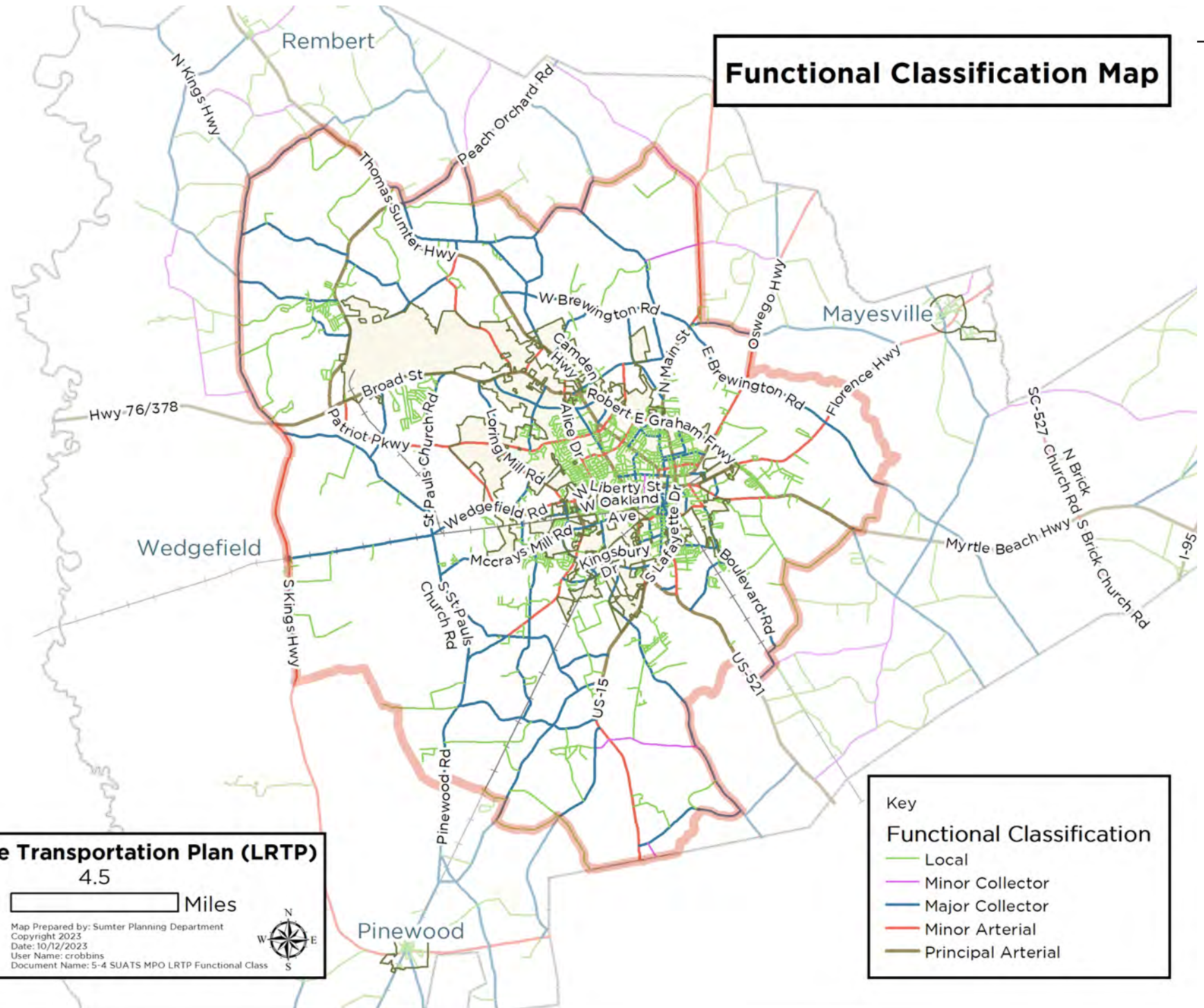


Functional Classification Map

Long Range Transportation Plan (LRTP)
4.5



Map Prepared by: Sumter Planning Department
Copyright 2023
Date: 10/12/2023
User Name: crobbins
Document Name: 5-4 SUATS MPO LRTP Functional Class

Key

Functional Classification

- Local
- Minor Collector
- Major Collector
- Minor Arterial
- Principal Arterial

FUNCTIONAL CLASSIFICATION

	Functional Classification	Description
Arterial	Expressways and Freeways	Expressways and freeways provide the most mobility and least access (since access is only available at interchanges). Freeway, expressway facilities typically serve longer distance travel and support regional mobility. The state funds roadway improvement and maintenance on these facilities. The US 76-378 Bypass (Robert Graham Freeway) is classified as an expressway/freeway.
	Major Arterials	Major arterials typically have tightly controlled access and few, if any, individual site driveways. These facilities serve medium to longer distance travel and typically connect minor arterials and collector streets to freeways and other higher type roadway facilities. Major arterials within the SUATS area include Broad Street (US 76 Business), US 15, US 521, SC 441, US 76 west of the US 76-378 Bypass, and US 401 north of the US 76-378 Bypass.
	Minor Arterials	Minor arterials primarily serve a mobility function but often have more closely spaced intersections, some individual site driveways, and generally lower design and posted speeds compared to other arterials. The minor arterial network is primarily intended to serve travel demand within the local area. These roadways connect to other minor arterials, to major arterials, and to collector streets. Minor arterials provide a higher level of access to adjacent land uses than major arterials and typically have lower traffic volumes. For the most part, minor arterials are maintained by the state, but the cost of improvement may be the responsibility of local governments. In general, minor arterials in Sumter have two-lane undivided cross-sections with little or no paved shoulders and an occasional left-turn lane at intersections and major driveways. Posted speed limits on minor arterials range from 35 mph to 45 mph. Other characteristics may include sidewalks, signalized intersections, and on-street parking (in residential areas and the centralized business district). Minor arterials in Sumter include Alice Drive, Patriot Parkway, Pinewood Road, North Main Street, Wedgefield Road, and Loring Mill Drive.
Collector	Major Collectors	Collectors typically provide less overall mobility, operate at lower speeds (less than 35 mph), have more frequent and greater access flexibility with adjacent land uses, and serve shorter distance travel than arterials. Collectors provide critical connections in the roadway network by bridging the gap between arterials and locals. Thus, the majority of collector streets connect with one another, with local streets, and with non-freeway/expressway arterials. The primary purpose of the collector street system is to collect traffic from neighborhoods and distribute it to the system of major and minor arterials throughout an area. In general, collector streets have two lanes and often have exclusive left-turn lanes at intersections with major and minor arterials and less frequently at intersections with other collector streets. Within Sumter, collector streets have a wide range of physical characteristics, some of which are attributable to the neighborhoods in which they exist. Though different, the one commonality is that of providing good connectivity. Examples of collector streets in the SUATS area include Carter Road, East Calhoun Street Extension, Kingbury Drive, Lewis Road, South Main Street, and Stadium Road.
	Minor Collectors	
Local	Local Access	Local facilities provide greater access and the least amount of mobility. These facilities typically connect to one another or to collector streets and provide a high level of access to adjacent land uses/development (i.e. frequent driveways). Locals serve short distance travel and have low posted speeds limits (25 mph to 35 mph). Most roadways within the SUATS area are classified as locals.

FEDERAL-AID ELIGIBILITY

FEDERAL-AID HIGHWAY PROGRAM

The U.S. Congress established the Highway Trust Fund in 1956 to support building the interstate system as one of the earliest major initiatives of the Federal Aid Highway Program. Today, this fund continues to provide a steady source of surface transportation financing for the Federal-aid program. User fees such as gasoline taxes go into the Highway Trust Fund to finance surface transportation system projects, primarily for highways and bridges.

The principal statutes establishing the Federal-Aid Highway Program are found in Title 23, United States Code (23 USC). Regulatory requirements are generally found in Title 23, Highways, of the Code of Federal Regulations (23 CFR).

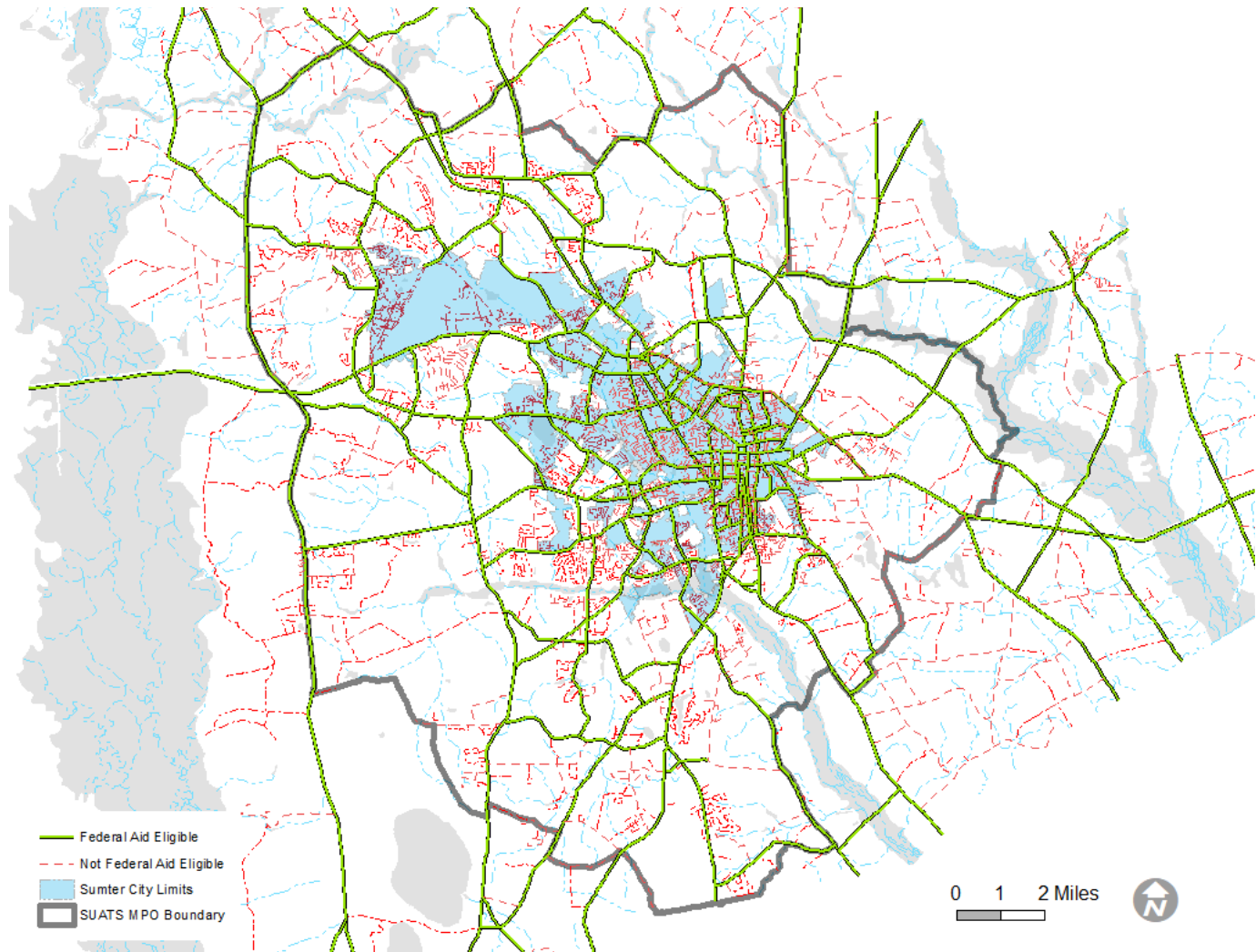
The Federal-Aid Highway Program supports State highway systems by providing financial assistance for the construction, maintenance and operations of the Nation's highway network, including the Interstate Highway System, primary highways and secondary local roads. The Federal Highway Administration (FHWA) is charged with implementing the Federal-aid Highway Program in cooperation with the States and local government.

Understanding Federal-aid requirements is important in the delivery of Federal-aid projects at the local level. Most federal funds must be used on eligible highways, often termed "Federal-aid highways." These classified roadways are determined in part by their functional classifications. The map on this page depicts the Federal-aid eligible roadways in SUATS.

There are some exceptions that permit certain funding programs to be used for projects on other public roads. You should contact your

State DOT to get more information on Federal-aid funding programs that lend themselves to use on LPA projects.

Federal-aid funding is available for capital improvements and planned upkeep of highway assets. However, Federal-aid funding cannot not be used for routine maintenance, such as pothole patching or mowing.



CORRIDOR OPERATIONS

There are nearly 1,000 miles of publicly-owned roadway centerlines within the SUATS MPO of which the County owns 22%, the City owns 10%, and the South Carolina Department of Transportation (SCDOT) owns 68%.

INTER-REGIONAL ACCESS

Inter-regional access in the SUATS area is provided by three major US routes: US-15, US-521, and US-378. While US-15 and US-521 are not freeways today, these corridors connect to the region's freeways (including US-378) and provide for the relatively efficient movement of high volumes of traffic and increased mobility (except during peak traffic periods). The primary north-south route is US 15, which connects Sumter to I-20 to the north and I-95 to the south. US 521 provides an alternate connection to I-95 and points south. Movements east and west rely on the network of roads near downtown as well as the US 76-378 Bypass (Robert Graham Freeway). US 76-378 connects Sumter with Columbia to the west. To the east, US 378 connects Sumter to I-95 before continuing to Conway and Myrtle Beach.

CONGESTED CORRIDORS

Congestion in corridors is related to a number of factors, but is often the result of bottlenecks – primarily at intersections – along the corridor. Aside from individual bottleneck locations in corridors, congestion frequently results from too many people trying to use a route that is already at or over-capacity.

Traffic volumes signify the total number of vehicles traveling along a roadway segment on an average day.

However, traffic volumes alone should not be used to determine congested corridors because this measurement does not take into account different functional classifications and roadway capacity. A better measurement for this comparison is volume-to-capacity (V/C) ratios. V/C ratios are calculated by dividing the traffic volume of a roadway segment by the theoretical capacity of the roadway.

Although V/C can be tied to level of service (LOS), V/C allows for a more specific analysis. The result is a universal quantitative measurement. V/C ratios fall into one of the following categories:

- **Approaching Capacity (V/C = 0.9 to 1.09)** – A roadway with a V/C less

than 0.8 typically operates with efficiency. As the V/C nears 1.0, the roadway becomes more congested. A roadway approaching capacity may operate effectively during non-peak hours but be congested during peak travel periods.

- **At Capacity (V/C = 1.10 to 1.29)** – Roadways operating at capacity or slightly above capacity are heavily congested during peak periods and moderately congested during non-peak periods. A change in capacity due to incidents greatly impacts the travel flow on corridors operating within this V/C range.
- **Over Capacity (V/C > 1.30)** – The roadways in this category represent the most congested corridors in the SUATS area. These roadways are congested during non-peak hours and most likely operate in stop-and-go gridlock conditions during the morning and evening peak travel periods.

The region's ten highest traffic segments are noted on the table below:

Table 6.5 - Top 10 SUATS Roadway Segments by AADT Volume

AADT	Route Name	Extents
29,600	Broad St.	Alice Dr. to Market St.
29,300	Broad St.	Carter Rd. to Alice Dr.
25,500	Broad St.	Eagle Dr. to Carter Rd.
24,300	N. Guignard Dr.	Miller Rd. to W. Calhoun St.
24,200	W. Liberty St./ Pinewood Rd.	Phelps St. to Millwood Rd.
22,400	Pinewood Rd.	Millwood Rd. to McCrays Mill Rd.
21,400	Thomas Sumter Hwy.	Broad St. to Beckwood Rd.
20,700	S. Guignard Dr.	W. Liberty St. to Oakwood Ave.
20,600	S. Guignard Dr.	McCray's Mill Rd. to Neal St.
20,400	US-15 South	S. Guignard Pkwy to Lewis Rd.

Limited financial resources to increase capacity has resulted in peak hour traffic congestion on many major area roadways. During the morning and afternoon peak travel periods, sections of commuter travel corridors are frequently congested.

CORRIDOR OPERATIONS

However, despite periods of peak hour congestion, there are very few roadways in the SUATS MPO that have an overall capacity issue, as measured over the course of an average day. Those corridors that are “Approaching Capacity” (V/C between 0.9 and 1.09) are:

- Alice Drive between Wise Dr. and W. Liberty St.
- N. Guignard Drive between Wise Dr. and Thomas Dr.
- Wise Dr. between N. Guignard Dr. and Bultman Dr.
- Lynam Rd. between Wedgefield Rd. and W. Oakland Ave.

Only 1 corridor is “At Capacity” (V/C between 1.10 and 1.29) in the SUATS MPO:

- Wedgefield Rd. between Loring Mill Rd. and W. Liberty St.

Finally, there are no corridors identified from the base year model (2019) that are “Over Capacity” (V/C above 1.3).

The recommendations that follow in Chapter 7 as well as the multimodal solutions presented aim to alleviate system-wide congestion in a cost-effective and time efficient manner.

A CAUTIONARY NOTE

While peak hour volume-to-capacity ratios and anecdotal experience suggest that congestion is a significant concern and challenge for the region, it is important to note that the economic capacity to address these targeted periods of congestion may be beyond SUATS ability based on current resources.

Diagram 6.6 illustrates the risks of addressing a deficiency that may occur at one or two short periods of time within the 24 hour day, when during the remainder of time the road may operate normally. With limited resources, SUATS must be judicious in project selection and spending to avoid solving a problem that results in excessive capacity for much of the day.

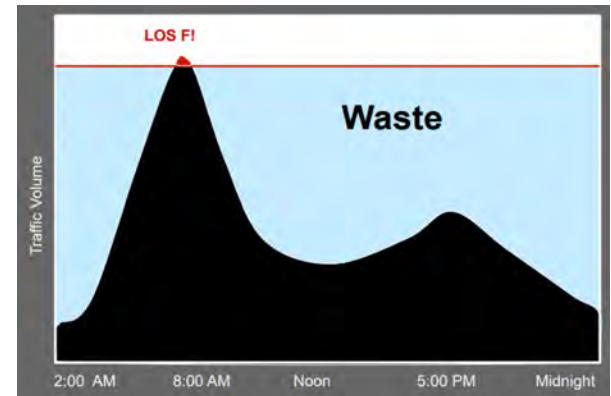


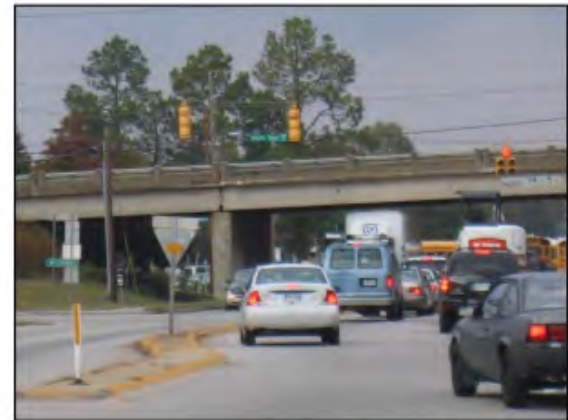
Diagram 6.6 - Generalized Illustration of Peak Hour Delay as viewed within a 24-hour Window



Level of Service A

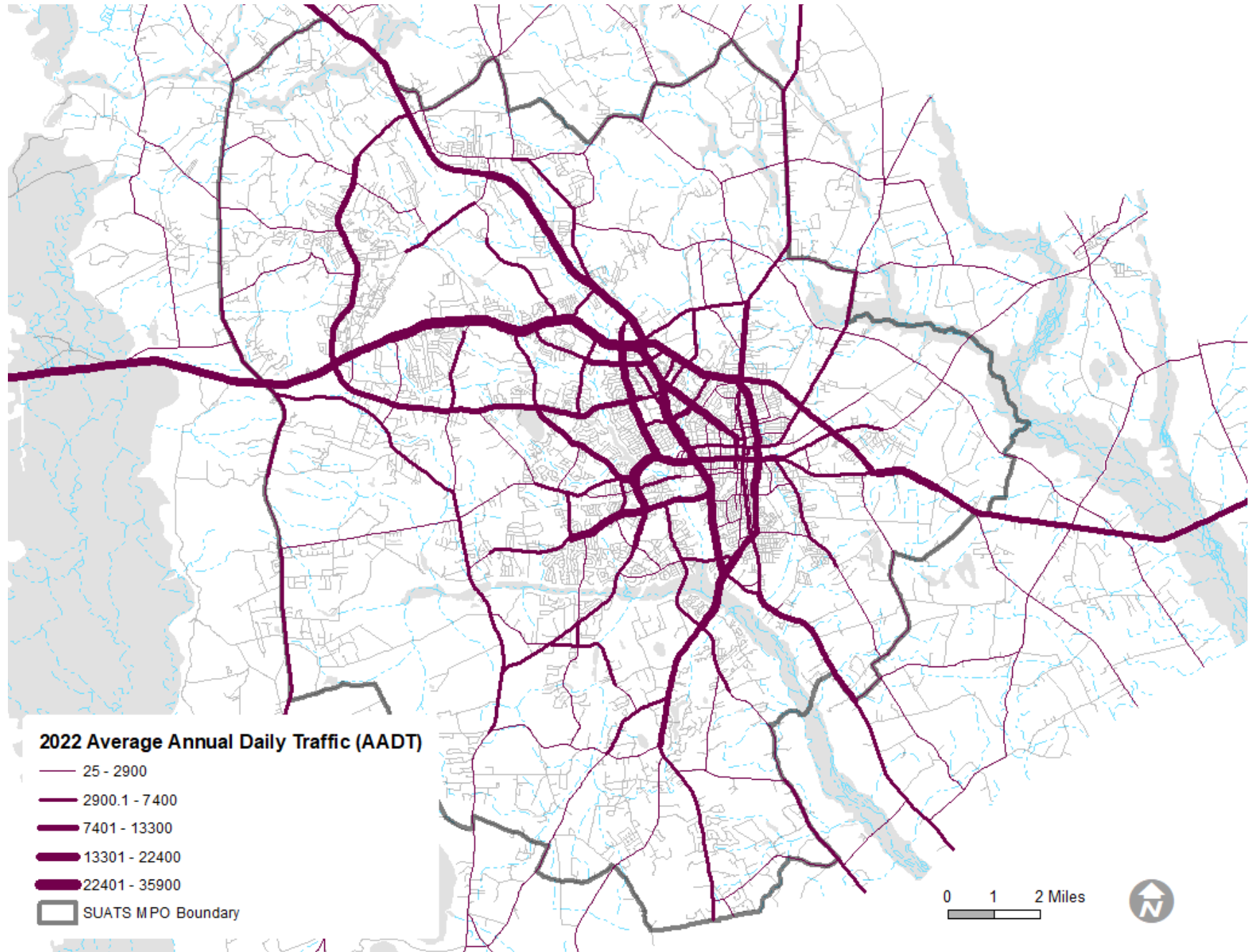


Level of Service B

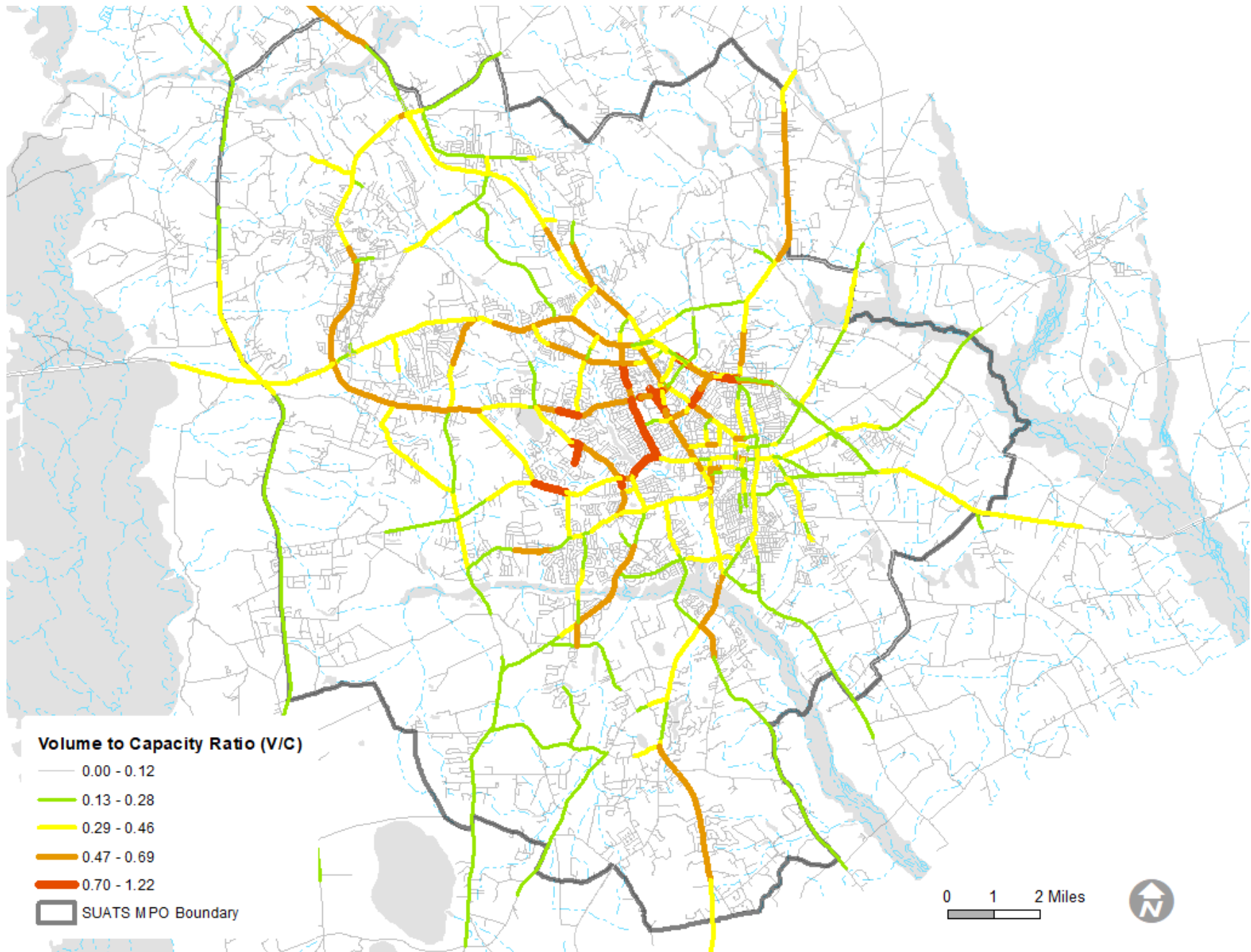


Level of Service E or F

2022 AVERAGE ANNUAL DAILY TRAFFIC (AADT)



2019 VOLUME TO CAPACITY (V/C) RATIOS



SAFETY AND CRASH HISTORY

SAFETY

Every year, thousands of people lose loved ones in transportation-related collisions in the U.S. This is an important public health issue because traffic fatalities and serious injuries threaten the safety and health of our communities. In 2022 alone, an estimated 42,795 people were killed in crashes.¹ While the number of fatalities nationwide has decreased since 1966, the first year for which these numbers were recorded by the National Highway Traffic Safety Administration (NHTSA), even one traffic-related death is too many.

The goal of SUATS, the SC Department of Public Safety, and the SC Department of Transportation is to reduce fatalities and serious injuries on all public roadways in the short term, with the vision of eliminating both in the long term. This goal and vision can be realized if all citizens would adopt a “target zero” mindset for themselves, as well as their families and friends.



¹ National Highway Traffic Safety Administration press release, October 22, 2019
<https://www.nhtsa.gov/press-releases/roadway-fatalities-2018-fars>.

Table 6.7 - Type of Intersection Crash, Total Number, and % of Total

Type of Crash	Total Number	Percent of Total Crashes
Angle	4,036	41.9%
Rear End	2,751	28.5%
Sideswipe	909	9.4%
Head On	178	1.8%
Run off Road	1,361	14.1%
Hit Pedestrian	66	0.7%
Hit Bicycle	24	0.2%
Hit Animal	88	0.9%
Other Crashes	229	2.4%
Total	9,642	100%

Based on the National Highway Traffic Safety Administration’s Fatality Analysis Reporting System (FARS), between 2017 and 2021, there were 107 traffic fatalities in Sumter County, of which 76 were located in the SUATS MPO. This resulted in a fatality rate of 21.08, normalized to per 100,000 persons.

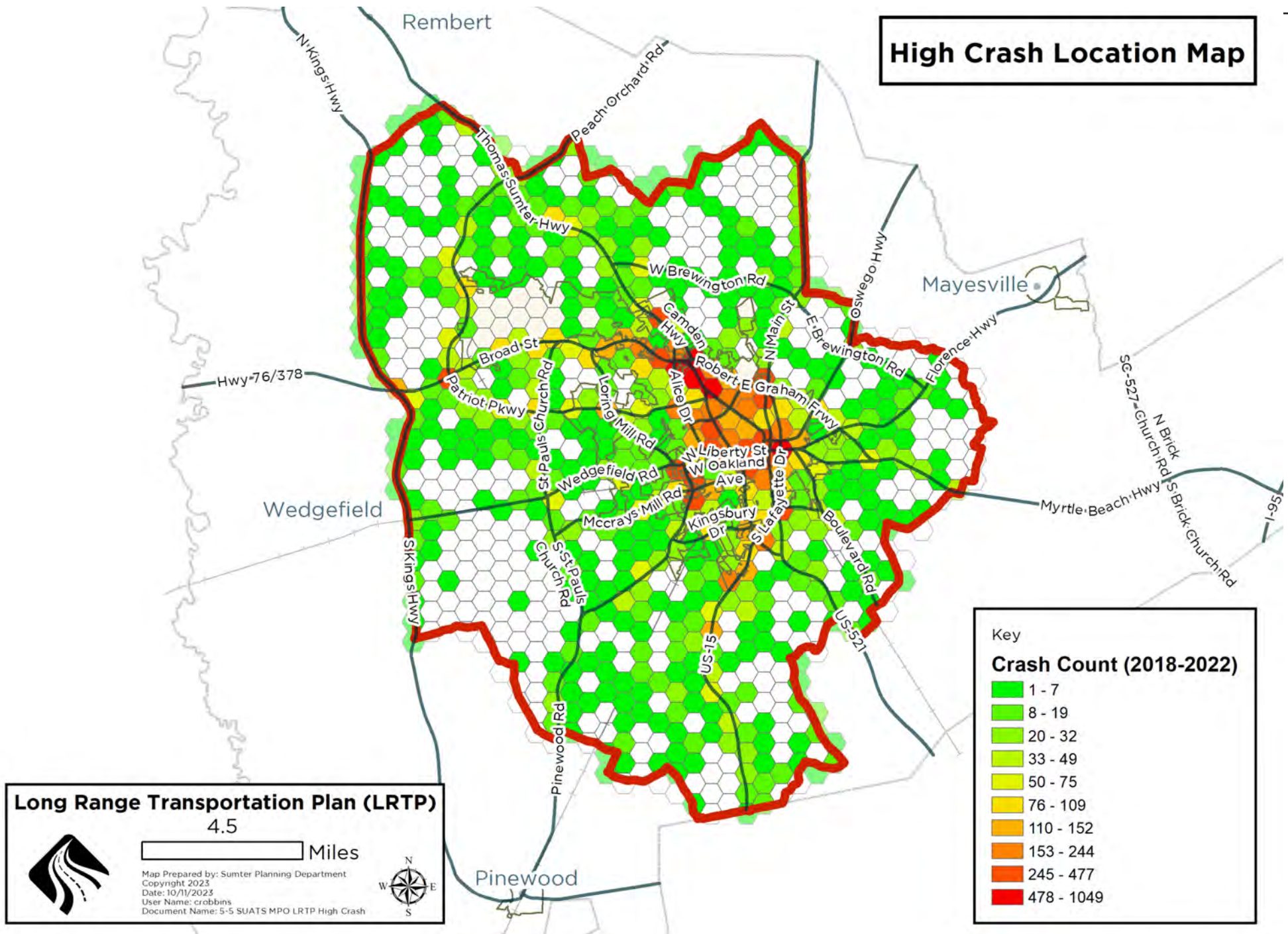
In 2021, the most recent year for which full data is available from the SC Department of Public Safety, Sumter County ranks #14 out of 46 counties in the state for total collisions and serious injury collisions, and #13 of 46 for fatal collisions. This sobering position is on top of the fact that the state of South Carolina has exceeded the national average for deaths per 100 million VMT in each of the last 25 years.

Furthermore, the South Carolina Department of Public Safety estimates that economic loss that year associated with serious injuries and fatalities in Sumter County was \$126.1 million.

Exhibit 6.8 - 2020-2024 State Highway Safety Plan Emphasis Areas



High Crash Location Map



INTERSECTION CRASHES

Data provided by the SCDOT Safety Office for calendar years 2018-2022 shows that there were 9,642 total crashes and 56 total fatalities at the 1,676 intersections in the MPO.

It is important to note that, of the 56 fatal crashes that occurred in the SUATS MPO between 2018 and 2022, only one intersection (McCrays Mill Rd. at Foxcroft Dr.) had more than a single fatal crash during that time, and at this intersection, there were only 5 total crashes reported. This speaks to the challenge of addressing the issue of roadway safety through a fatal and severe injury crash focus at a local level such as with SUATS MPO. Because there are many factors involved in a crash, including roadway condition,

weather conditions, and driver impairment, forecasting the potential locations of crashes in SUATS is not feasible. Rather, focusing on high-crash locations as likely places where a fatality or serious injury may occur is a better methodology.

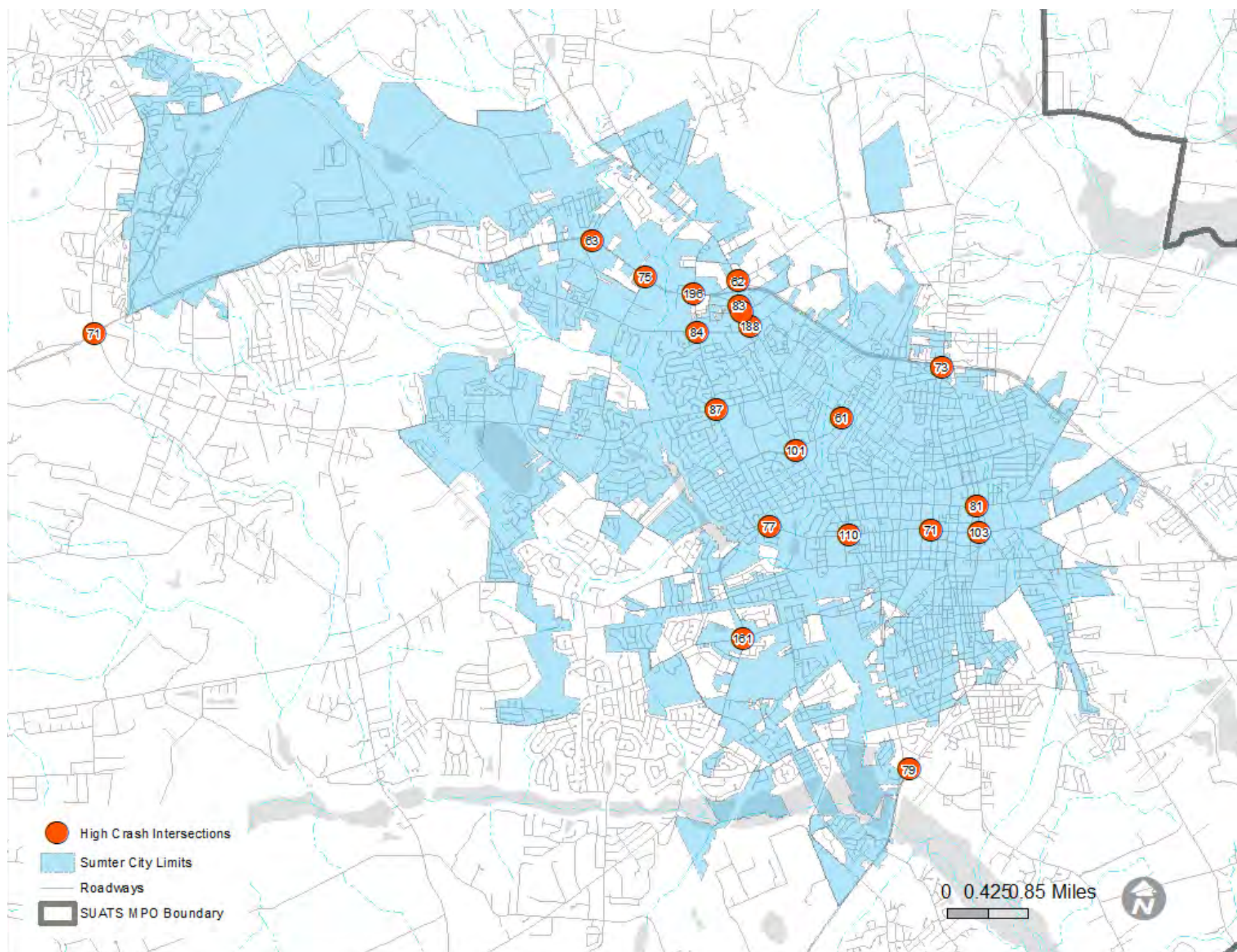
Of the 9,642 total intersection crashes, nearly 20%, (1,900), occurred at 1% (20) of intersections. These 20 intersections are noted in Table 6.9.

There were 66 crashes involving pedestrians at intersections in the MPO, and another 24 involving bicycles. 29% (2,809) of crashes occurred at night, and 16% (1,523) of crashes occurred in wet conditions.

Table 6.9 - 20 Highest Crash Intersections in SUATS MPO, by Total Crash Volume, 2018-2022

Route 1	Route 1 Name	Route 2	Route 2 Name	Total Crashes	Crash Rate	Fatal Crashes	Injury Crashes	Combined AADT	Hit Bike/ Ped
US-76	Broad St.	SC-120	Alice Dr.	196	2.73	0	56	39350	1
US-76	Broad St.	S-1074	Wesmark Blvd.	188	4.58	1	44	22500	1
SC-120	Pinewood Rd.	S-33	McCray's Mill Rd.	161	3.17	0	37	27850	0
US-521	N./S. Guignard Dr.	SC-763	W. Liberty St.	110	1.81	1	32	33250	2
US-15	N./S. Lafayette Dr.	US-76	E. Liberty St.	103	2.28	0	25	24750	1
US-521	N. Guignard Dr.	S-55	Miller Rd.	101	1.70	0	26	32450	2
SC-120	Alice Dr.	S-380	Wise Dr.	87	1.86	0	17	25650	0
SC-120	Alice Dr.	S-1074	Wesmark Blvd.	84	1.65	0	18	27950	0
US-521	Thomas Sumter Hwy.	US-378	Broad St.	83	4.25	1	20	10700	1
US-15	N Lafayette Dr.	US-401	E. Calhoun St.	81	2.08	0	29	21300	0
US-15	Pocalla Rd.	US-521	S. Guignard Dr.	79	1.71	0	39	25300	0
SC-120	Pinewood Rd.	SC-763	Wedgefield Rd.	77	1.79	0	16	23500	0
US-76	Broad St.	S-467	Carter Rd.	75	1.28	0	20	32000	0
US-76	Broad St.	S-1073	Market St.	74	2.55	0	10	15875	1
US-15	N. Main St.	S-1429	S. Pike East/West	73	2.06	0	24	19450	1
US-76	E. Liberty St.	SC-763	Myrtle Beach Hwy.	71	2.92	0	17	13300	0
US-76	Broad St.	SC-441	Peach Orchard Rd.	71	1.38	0	22	28150	0
US-76	Broad St.	S-673	Mason Rd.	63	1.08	0	18	32000	1
US-521	Thomas Sumter Hwy.	S-53	Jefferson Rd.	62	1.37	0	16	24700	0
US-76	Broad St.	S-55	Miller Rd.	61	1.44	0	22	23250	1

TOP 20 INTERSECTION CRASH LOCATIONS



CORRIDOR CRASHES

Data provided by the SCDOT Safety Office for calendar years 2018-2022 shows that there were 12,824 total crashes and 87 total fatalities when analyzed as 1 mile corridors in the MPO.

It is important to note that, of the 87 fatal crashes that occurred on the SUATS MPO corridors between 2018 and 2022, only eleven 1-mile segments saw more than a single fatal crash during that time. This speaks to the challenge of addressing the issue of roadway safety through a fatal and severe injury crash focus at a local level such as with SUATS MPO. Because there are many factors involved in a crash, including roadway condition, weather conditions, and driver impairment, forecasting the potential

locations of crashes in SUATS is not feasible. Rather, focusing on high-crash locations as likely places where a fatality or serious injury may occur is a better methodology.

Of the 12,824 total corridor crashes, nearly 34%, (4,317), occurred at 2% (20) of intersections. These 20 corridor segments are noted in Table 6.10.

There were 93 crashes involving pedestrians at intersections in the MPO, and another 37 involving bicycles. 31% (3,926) of crashes occurred at night, and 16% (2,095) of crashes occurred in wet conditions.

Table 6.10 - 20 Highest Crash Corridors in SUATS MPO, by Total Crash Volume, 2018-2022 (1 mile segments)

Route	Route Name	Beginning Mile Point	Ending Mile Point	Total Crashes	Crash Rate	Fatal Crashes	Injury Crashes	AADT	Hit Bike/Ped
US-76	Broad St.	0.0	1.0	520	16.45	0	114	17,310	3
US-76	Broad St.	14.0	15.0	458	8.52	1	127	29,435	4
SC-120	Pinewood Rd.	13.0	14.0	281	7.86	0	68	19,580	0
US-76	Broad St.	1.0	2.0	245	8.77	0	81	15,300	3
US-15	N. Lafayette Dr.	11.0	12.0	242	9.4	1	93	14,100	4
US-521	N. Guignard Dr.	11.0	12.0	220	5.21	1	53	23,130	2
US-521	N. Guignard Dr.	10.0	11.0	203	5.54	2	57	20,065	4
US-15	N. Lafayette Dr./N. Main St.	12.0	13.0	199	8.62	0	58	12,640	1
US-76	Broad St.	3.0	4.0	190	11.74	0	42	8,860	0
S-33	McCray's Mill Rd.	1.0	2.0	179	8.56	0	43	11,450	1
US-76	Broad St.	13.0	14.0	176	3.29	0	50	29,300	0
S-1074	Wesmark Blvd.	0.0	1.0	175	12.33	1	34	7,770	2
US-521	Bultman Dr./Broad St.	12.0	13.0	175	5.16	0	42	18,590	0
US-76	Broad St.	12.0	13.0	162	3.19	2	54	27,780	1
SC-120	Pinewood Rd./Alice Dr.	14.0	15.0	161	4.17	0	31	21,160	0
SC-120	Alice Dr.	16.0	17.0	158	5.14	1	32	16,840	0
US-76	Broad St.	4.0	5.0	155	11.46	0	39	7,410	1
US-401	E./W. Calhoun St.	0.0	1.0	145	11.77	1	48	6,745	2
US-521	Thomas Sumter Hwy.	13.0	14.0	139	4.03	0	37	18,900	0
S-1429	S. Pike West	0.0	1.0	134	10.97	0	55	6,690	0

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CHAPTER 7

FUTURE ROADWAY CONDITIONS





CHAPTER 7

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INTRODUCTION

INTRODUCTION

The challenges facing the future of the transportation network in Sumter are the collective result of sustained low-density suburban growth, continued reliance on the automobile for even short trips, and competing agendas for scarce transportation funds. State forecasters expect Sumter County's population to remain relatively flat through 2035. However, these projections are unreliable when compared to the rate of new housing growth, AADT change over time, and development of commercial and industrial projects in the MPO Study Area. If this observed growth continues, the few area projects with committed funding will do little to address existing and projected deficiencies in the transportation network.

The Future Roadway Element considers these dynamics as it examines the future transportation network under a variety of conditions. A travel demand model was utilized to assess existing and future travel conditions. This model tested the operation of the future highway network under various scenarios. Two scenarios for 2050 travel conditions developed using the model included the travel conditions given (1) the construction of existing and committed projects and (2) the construction of all recommended projects.

This chapter begins with an overview of the existing plus committed scenario, which considers the impact committed projects will have on future travel conditions. The recommendation section explores how financially constrained projects can improve future travel conditions.

Unfunded recommendations in the form of a Vision Plan are proposed to address the remaining deficiencies. The chapter concludes with access management strategies, an overview of complete streets, and a collection of project sheets that describe the proposed recommendations.

CHARACTERIZING THE STREET NETWORK

Many variations in street networks exist today, and subtle differences can have significant impacts. Despite the complexity of network types, street networks can generally be characterized through a combination of:

- Shape and configuration
- The scale of the network
- The connectivity of the streets

In terms of shape and configuration, the two main network typologies tend to be either gridded or “tree-like”. However, there are an infinite number of possibilities. Some common examples are:

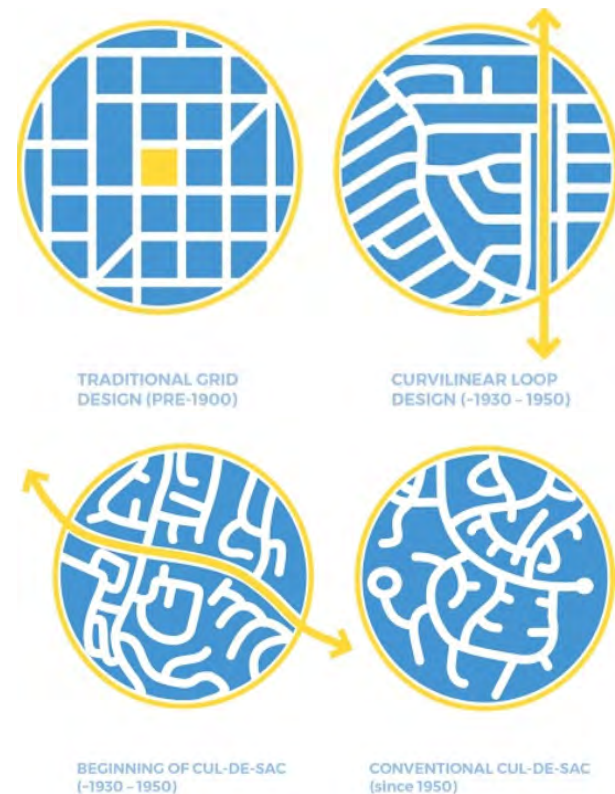


Figure 7.1 - Common Examples of Street Network Characteristics

ENVISIONING A NETWORK FRAMEWORK

NETWORK FRAMEWORK

The most important function of a good street network is that it forms an effective and flexible framework for building a community. The network provides places for commerce, as well as places for quiet living, and a host of variations in the middle. The streets in the SUATS network should be designed to accommodate this range of desired outcomes.

Some streets should be designed to attract all modes of travel, including vehicles and people walking or biking, while others should be designed to be quiet, with only see the occasional vehicle or person walking. This range of performance is achieved by having variations in both design of the network and design of the streets themselves.

The amount and types of connections in the network are key factors in determining both how the community functions and the character of the individual streets themselves. As a general rule, streets should connect at both ends. A high level of connectivity provides an efficient template for

dispersing traffic, facilitating route choice, and creating a more comfortable condition for people who travel by foot, bike, or transit.

BUILDING A NETWORK WITH PEOPLE IN MIND

The future SUATS street network needs to be attractive and convenient to pedestrians and serve as good templates for development. This is achieved by ensuring that there is a fine grain of pathways and connections in the network. Smaller blocks (or more intersections per square mile) are typically more comfortable for pedestrians, providing more direct paths to destinations and generally creating the template for a more people-scale environment.

This idea of a more people-scale environment also relates to the idea that we should be trying to build places where people enjoy spending time. Everyone should have safe places to walk, safe places to ride bikes, and safe places to drive.



Connected Street Network



Fragmented Street Network

Figure 7.2 - What does a Connected Street Network Look Like?

EXISTING + COMMITTED CONDITIONS

EXISTING + COMMITTED CONDITIONS

The initial step in identifying projects for the SUATS Long-Range Transportation Plan is to analyze how the existing transportation network combined with committed projects will perform in 2050 given current growth patterns. The FY2024-2033 TIP provides a record of projects within the SUATS boundary that will receive state or federal funding.

There are 6 TIP-programmed capital roadway projects in varying stages of feasibility study and/or development, including:

- Manning Avenue Revitalization Project
- North Main Street Revitalization Project
- West Liberty Street Road Diet
- West Calhoun Street Traffic Calming
- Lafayette Drive Corridor Improvements
- “Connect 378” US-378 Corridor Improvements

There are also 6 TIP-programmed capital intersection projects in varying stages of design and/or development

- Broad Street @ Robert Dinkins Road
- Broad Street @ Loring Mill Road
- Broad Street @ North Saint Paul’s Church Road
- North Washington Street @ West Calhoun Street
- North Washington Street @ West Hampton Avenue
- North Washington Street @ West Liberty Street

These projects are detailed further in Chapter 9.

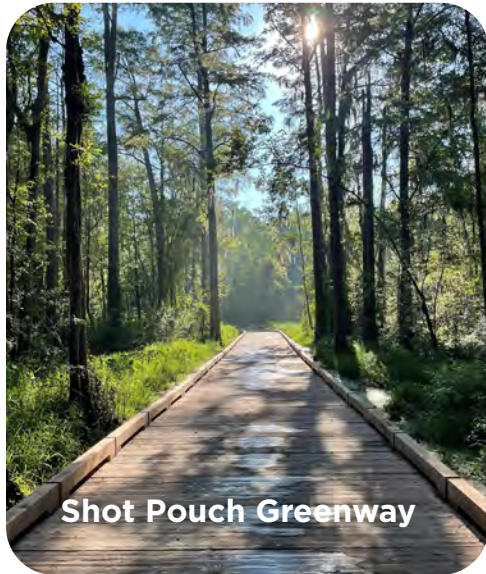
PENNY FOR PROGRESS

“Penny for Progress” is a term first coined for the Sumter County Capital Projects Sales Tax referendum of 2008. That term has been adopted in Sumter because it is widely recognized by Sumter County residents in association with the referendum.

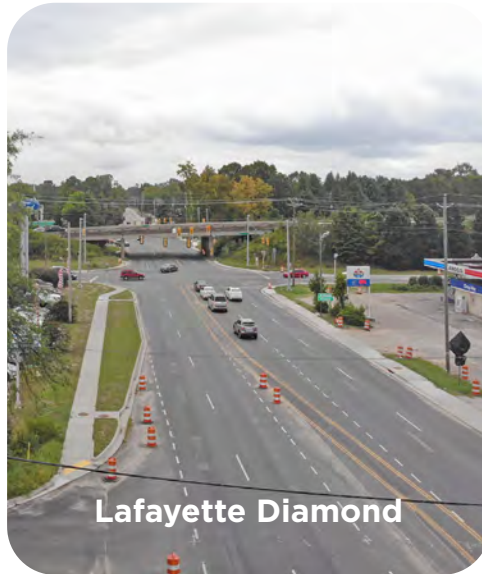
The most recent Penny for Progress was approved by Sumter County voters in the general elections of November of 2014 to continue a 1 cent county sales tax from 2008. Passage of that referendum authorized Sumter County Council to levy a temporary sales tax to fund 28 capital projects. The 7-year sales tax was implemented in May of 2016 and includes \$75.6 million in projects.



9 capital roadway projects were part of the overall sales tax effort, with 5 of those projects remaining to be completed as of the adoption of this LRTP.



Shot Pouch Greenway



Lafayette Diamond

Remaining Projects to Complete via 2016 Penny for Progress Referendum

Manning Avenue Bridge

Renovation of the Manning Avenue bridge.

Manning Avenue Corridor

Pedestrian, streetscape, intersection, traffic calming, lighting, access, and landscaping improvements to the Manning Avenue Corridor and connections to the Southern Gateway project.

North Main Street Corridor

Pedestrian, streetscape, intersection, traffic calming, lighting, access, and landscaping improvements to the Main Street Corridor and connections to the Lafayette intersection projects.

Downtown Sumter Intersections and Infrastructure

Infrastructure and building improvements in the historic central business district will include as a minimum pedestrian crosswalks, utilities, streets and sidewalks, lighting, landscaping to address safety, quality of life and investment in the central business district for economic development.

County Paving and Resurfacing

Sumter County has identified 18 miles of new paving projects for existing dirt roads and 198 miles of pavement resurfacing projects. Both pavement and resurfacing project goals are to ease public travel and emergency vehicle accessibility and to improve maintenance service on other Sumter County roads.

PROJECTED V/C RATIOS MAP

The SUATS MPO's Travel Demand Model is being updated to reflect the most up-to-date data available, including that from the 2020 Census. While data from the model is complete for the base year, projections are still in development. Once the update is complete, additional projection data will be placed into the LRTP via an amendment.

PROJECTED AADT MAP

The SUATS MPO's Travel Demand Model is being updated to reflect the most up-to-date data available, including that from the 2020 Census. While data from the model is complete for the base year, projections are still in development. Once the update is complete, additional projection data will be placed into the LRTP via an amendment.

PHYSICAL ROADWAY IMPROVEMENT RECOMMENDATIONS

PHYSICAL ROADWAY IMPROVEMENT RECOMMENDATIONS

As we evaluate the transportation network in to the future, it is clear that increasing demands will be placed on the existing network, and it will be important to protect the integrity of the existing system. This document provides a list of proposed physical improvements specific to key corridors throughout the region. The list includes projects that emerged during discussions with area stakeholders, local officials, Technical Committee, and the general public as well as those previously recommended in the 2018 update that remain relevant.

Recommendations are divided first between linear and point-based projects (corridors vs. intersections), and then into sub-categories for each project type, as noted on the table below:

Corridors	Intersections
Operational Improvement	Operational Improvement
New Location	New Location
Safety	Safety
Road Diet	

Wherever possible, the recommendations emphasize the protection of existing roadways through the inclusion of better access management design. That is, if a corridor warrants widening or other capacity improvements, a median may be proposed to improve safety, control access, and to enhance the corridor aesthetics.

The following lists detail the recommended capital roadway improvements for corridors and intersections in the SUATS region. These lists represent all of the recommended roadway projects proposed for improvement. All of these recommendations are part of the region's financially unconstrained Vision Plan. Chapters 11 and 12 identify the subset of projects included as part of the financially constrained plan.

ROADWAY PROJECT PRIORITIZATION

In order to best understand how to allocate the region's limited financial resources, it is crucial to evaluate the recommendations quantitatively through a robust methodology. In order to create a balanced set of priorities, project evaluations need to go beyond traffic impacts to consider cultural, environmental, economic, multimodal, and land use considerations.

Recognizing the need to create a balanced prioritization to establish project rankings, the State of South Carolina passed Act 114 in 2007. Act 114 added Sections 57-1-370 and 57-1-460 to the South Carolina Code of Laws. These sections provide details of the ranking process to be used by SCDOT, as well as its affiliated MPOs.

In 2016, the General Assembly enacted Act 275, which updated the prioritization requirements that MPOs must follow. The prioritization process, detailed in Planning Directive 15, is unique based on the project improvement classification: corridor improvements or widening projects, new location roadways, and intersection projects.

By demonstrating that the projects outlined in this process address the goals of the state, SUATS can more successfully position itself to acquire state and federal funding. The following pages outline the prioritization criteria, definition, and percentage of the score. Tables 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, and 7.9 show the projects by the rank received during prioritization.

As noted throughout this chapter, there are a variety of corridor and intersection improvement projects recommended for the SUATS region. This page contains a detailed description of the ranking criteria established by SCDOT for the purposes of prioritizing roadway widening projects. Using the standard Act 114 methodology allows SUATS to best understand how the region's projects will compete for state and federal funding.

The purpose of the ranking process is not to determine the explicit impact of a project, but rather simply to identify resources or communities in proximity to recommendations. A more detailed analysis, including a field survey, is necessary to determine specific impacts on a project-by-project basis when individual project studies are begun.

STATEWIDE MPO PRIORITY RANKING (SOURCE: SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION)

In cooperation with the state's metropolitan planning organizations (MPOs), SCDOT has developed processes for ranking road widening, new location, and intersection improvements. SCDOT will maintain a statewide list of ranked widening projects using criteria consistent with Act 114. The statewide list provides a uniform process for evaluating project priorities within each MPO, as well as a statewide basis. MPOs and COGs have the discretion of using the statewide list to establish local priorities or they may use criteria consistent with Act 114, in addition to other criteria that address local desires and/or concerns related to transportation improvements.

The statewide list considers criteria in Act 114 in the following manner:

- Financial Viability – considered as a quantifiable criterion based on estimated project cost and estimated 20-year maintenance cost in relation to the current vehicle miles of travel. The criterion is weighted at 10% of the total project score.
- Public Safety – considered as a quantifiable criterion based on accident data. The criterion is weighted at 15% of the total project score.
- Potential for Economic Development – considered as a quantifiable criterion based on an assessment of short-term, intermediate, and longterm development potential as a result of the proposed improvement. The criterion is weighted at 10% of the total project score.
- Traffic Volume and Congestion – considered as a quantifiable criterion based on current traffic volumes and the associated level-of-service condition. The criterion is weighted at 35% of the total project score.
- Truck Traffic – considered as a quantifiable criterion based on current volume and average daily truck traffic estimates. The criterion is weighted at 10% of the total project score.
- Pavement Quality Index – considered as a quantifiable criterion based on pavement condition assessments. The criterion is weighted at 10% of the total project score.
- Environmental Impact – considered as a quantifiable criterion based on an assessment of potential impacts to natural, social, and cultural resources. The criterion is weighted at 10% of the total project score.
- Alternative Transportation Solutions – considered independently of ranking process. Transit propensity is evaluated based on surrounding population and employment characteristics to support transit service as a potential alternative or in addition to a proposed improvement.
- Consistency with Local Land Use Plans – considered independently of ranking process. A determination of consistency will be made during the long-range plan development process.

ROADWAY PROJECT SCORING METHODOLOGY

Goal	Definition	Scoring Weight	Max Points
Culture and Environment	Environmental Impacts: The environmental impacts score is based on an assessment of potential impacts to natural, social, and cultural resources. Environmental features are defined as wetlands, historic properties, and bodies of water.	10 - Project not expected to have any negative cultural/environmental impacts	10 pts
		7 - Project may have 1 or more any negative cultural/environmental impacts	
		5 - Project may have 2 or more any negative cultural/environmental impacts	
		3 - Project likely to have 1 or more negative cultural/environmental impacts	
		1 - Project likely to have 2 or more negative cultural/environmental impacts	
Economic Development	Economic Development: The Economic Development score is determined using a 10-factor methodology. The methodology assesses the economic development impact of transportation infrastructure projects.	10 - Score over 20	10 pts
		5 - Score between 10 and 20	
		1 - Score below 10	
Growth and Development	Priority network: (National Highway System (NHS), freight, and strategic corridors): The priority network score is based on a project's location in relationship to defined priority networks.	10 - Located on a priority network route	20 pts
		5 - Intersects with a priority network route	
		1 - Not located on or intersecting with a priority network route	
	Traffic Volume: The traffic volume is based on the 2022 Average Annual Daily Traffic (AADT) as collected by SCDOT. (For multi-segment projects, the highest volume segment will be used as basis for score).	1 - AADT below 500 or unknown	
		3 - AADT 1,000 - 4,999	
		5 - AADT 5,000 - 9,999	
		7 - AADT 10,000 - 19,999	
		10 - AADT above 20,000	

ROADWAY PROJECT SCORING METHODOLOGY

Goal	Definition	Scoring Weight	Max Points
Mobility and Accessibility	Volume to Capacity: The traffic volume and congestion score is based on Travel Demand Model assessed traffic volumes and associated level of service condition. (Highest volume segment will be used as basis for score).	10 - V/C above 0.7	20 pts
		7 - V/C between 0.47 and 0.69	
		5 - V/C between 0.29 and 0.46	
		3 - V/C between 0.13 and 0.28	
		1 - V/C below 0.12	
	Complete Streets: Based on feasibility of including additional bicycle/pedestrian facilities.	10 - Project can support public transit, pedestrian, and bike facilities 5 - Project can support public transit, pedestrian, or bike facilities 1 - Project cannot support public transit, pedestrian, or bike facilities	
Safety and Security	Safety: the safety score is a composite that includes crash rate per mile and the total number of crashes over a 5-year period.	10 - Safety score of 10	20 pts
		9 - Safety score of 9	
		8 - Safety score of 8	
		7 - Safety score of 7	
		6 - Safety score of 6	
		5 - Safety score of 5	
		4 - Safety score of 4	
		3 - Safety score of 3	
		2 - Safety score of 2	
		1 - Safety score of 1	
	Geometric Alignment Status: The geometric/alignment status is based on an assessment of the project area's functionality and operational characteristics.	10 - Projects with safety as the primary purpose	
		5 - Projects with operational improvement as the primary purpose 1 - Projects with congestion reduction as the primary purpose	
Network Preservation	Financial Viability: the financial viability score is based on estimated project cost in comparison to the 2024-2033 TIP window. (*Additional consideration will be given to projects supplemented with local project funding and/or other federal or state funding.)	10 - Estimated cost is equal to or less than 50% of the annual RMP budget	20 pts
		7 - Estimated cost is equal to or less than 100% of the annual RMP budget	
		5 - Estimated cost is equal to or less than 200% of the annual RMP budget	
		3 - Estimated cost is greater than 200% of the annual RMP budget but less than 5 times the annual RMP budget	
		1 - Estimated cost is greater than 5 times the annual RMP budget but less than 9 times the annual RMP budget	
		0 - Estimated cost is more than 9 times the annual RMP budget	
	Pavement Quality Index: the PQI Score is based on pavement condition assessments. For the purpose of ranking, the lowest PQI score in the project area will be used.	10 - PQI score "poor"	
		5 - PQI score "fair" 1 - PQI score "good"	

SCORING WEIGHT BY ROADWAY PROJECT TYPE

		Percentage of Score Based on Project Type						
		Intersection						
Evaluation Criteria	Definition	Operational Improvement	New Location	Safety	New Location	Operational Improvement	Road Diet	Safety
Environmental Impacts	Potential impacts to natural, social, and cultural resources. Features are defined as wetlands, historic properties, and bodies of water.	5%	40%	5%	40%	5%	5%	5%
Economic Development	10-factor methodology assessing the economic development impact of transportation infrastructure projects.	10%	20%	10%	20%	10%	5%	5%
Priority Network	Project's location in relationship to defined priority networks.	15%	15%	10%	15%	10%	10%	15%
Traffic Volume	2022 Average Annual Daily Traffic (AADT) as collected by SCDOT.	20%	-	20%	-	20%	5%	20%
Volume to Capacity Ratio	Travel Demand Model assessed traffic volumes as compared to roadway capacity.	15%	-	5%	-	15%	5%	5%
Complete Streets	Feasibility of including additional bicycle/pedestrian facilities.	5%	5%	5%	5%	5%	15%	5%
Crashes	Composite that includes crash rate per mile and the total number of crashes over a 5-year period.	10%	-	20%	-	10%	20%	20%
Geometric Alignment	Assessment of the project area's functionality and operational characteristics.	5%	-	10%	-	10%	10%	10%
Financial Viability	Estimated project cost in comparison to the 2024-2033 TIP window.	10%	20%	10%	20%	10%	20%	10%
Pavement Quality	Pavement condition assessments contained in SCDOT Pavement Quality Index (PQI).	5%	-	5%	-	5%	5%	5%

UNCONSTRAINED ROADWAY PROJECT RANKINGS (CORRIDOR)

Table 7.3 - Project Evaluation Matrix - Proposed Corridor Projects (Operational Improvement)

Project ID	Route	Route Name	Project Extents	Length (mi)	Cost Estimate (2050)	Current Functional Classification	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
O-2	US-521	Bultman Dr/N Guignard Dr	Broad St to Miller Rd	0.87	\$6,751,200	Principal Arterial	10	11	20	15	11	15	90.45	7
O-7	S-911	Alice Dr	Broad St to Wise Dr	1.23	\$9,544,800	Minor Arterial	7	12	12	20	11	6	75.35	16
O-19	SC-441	Patriot Parkway	Broad St to General Dr	4.47	\$43,359,000	Minor Arterial/ Major Collector	7	12	12	17	3	11	68.15	21
O-8	US-15	Pocalla Rd	Cockerill Rd to S Guignard Dr	1.65	\$12,804,000	Principal Arterial	3	13	15	12	11	4	64.95	23
O-6	SC-120/S-763	Pinewood Rd	Columbia Cir to Alice Dr	1.73	\$13,424,800	Principal Arterial/ Minor Arterial	3	9	11	20	11	4	64.65	24
O-13	S-911	Alice Drive	Wise Dr to W Liberty St	1.36	\$13,192,000	Minor Arterial	7	12	8	20	7	4	64.15	25
O-20	US-521	Camden Highway	Peach Orchard Rd to Dinkins Mill Rd	2.87	\$27,839,000	Principal Arterial	3	9	15	12	7	11	63.15	26
O-10	S-673	Mason Rd	Broad St to Camden Hwy	0.86	\$8,342,000	Minor Arterial	3	14	10	15	5	10	62.8	27
O-18	S-692	Wilson Hall Rd	Carter Rd to Broad St	0.54	\$5,238,000	Major Collector	10	10	10	15	5	6	61.55	28
O-1	SC-441	Loring Mill Rd	Wise Dr to Wedgefield Rd	2.46	\$19,089,600	Minor Arterial	3	9	8	20	7	8	60.85	29
O-17	S-467	Carter Rd	Wilson Hall Rd to Broad St	1.41	\$13,677,000	Major Collector	7	10	8	17	5	8	60.3	30
O-9	S-82	Boulevard Rd	E Liberty St to E Red Bay Rd	1.91	\$14,821,600	Minor Arterial/ Major Collector	3	7	8	15	9	13	60.15	31
O-11	S-91	Stamey Livestock Rd	Broad St to Four Bridges Rd	1.53	\$14,841,000	Minor Arterial	10	10	8	8	3	8	51.4	33
O-16	S-4302	W Wesmark Blvd	N Guignard Dr to Wilson Hall Rd	1.09	\$10,573,000	Major Collector	3	5	8	17	9	4	51	35
O-15	S-204	Loring Mill Rd	Broad St to Patriot Parkway	1.81	\$17,557,000	Major Collector	1	10	8	8	3	13	47.2	38
O-14	S-983	Deschamps Rd	Patriot Parkway to Wedgefield Rd	2.03	\$19,691,000	Minor Arterial	10	3	4	10	3	13	46.65	39
O-12	S-1322	Four Bridges Rd	Stamey Livestock Rd to Old Camden Hwy	1.43	\$13,871,000	Local	3	10	6	6	3	13	44.6	41
O-3	S-40	N/S Saint Pauls Church Rd	Cane Savannah Rd to Cains Mill Rd	2.84	\$22,038,400	Major Collector	1	4	6	6	7	13	40.9	44
O-4	S-539	Cane Savannah Rd	S Kings Hwy to N Saint Pauls Church Rd	4.74	\$36,782,400	Major/Minor Collector	1	8	4	6	7	11	40.7	45
O-5	S-458	Cains Mill Rd	Clipper Rd to S Saint Pauls Church Rd	3.61	\$28,013,600	Major/Minor Collector	1	8	4	4	7	11	38.4	47
O-21	L	Race Track Rd	US-521 South to Mims Rd	2.09	\$20,273,000	Local	7	11	6	2	5	3	37.4	48

UNCONSTRAINED ROADWAY PROJECT RANKINGS (CORRIDOR)

Table 7.4 - Project Evaluation Matrix - Proposed Corridor Projects (New Location)

Project ID	Route	Route Name	Project Extents	Length (mi)	Cost Estimate (2050)	Current Functional Classification	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
N-4	L	Terry Rd.	Broad St. to Weldon Dr.	0.31	\$6,014,000	N/A	10	14	6	11	7	5	53.05	32
N-8	S-118	W. Bartlette St.	Charles St. to S. Artillery Dr.	0.16	\$3,104,000	N/A	7	14	6	11	7	7	51.25	34
N-6	L	Quandry Rd.	Carter Rd. to Stamey Livestock Rd.	0.61	\$11,834,000	N/A	10	14	6	11	7	3	50.65	36
N-14	L	Global Dr.	US-521 South to US-521 South	0.5	\$9,700,000	N/A	10	15	6	6	7	5	49	37
N-1	S-1074	E. Wesmark Blvd. Extension	S. Pike West to Electric Dr.	0.27	\$5,238,000	N/A	7	12	6	11	7	5	46.45	40
N-3	S-911	Alice Dr. Extension	Camden Hwy. to N. Wise Dr.	1.55	\$30,070,000	N/A	3	18	6	11	7	1	43.25	42
N-5	L	Weldon Dr.	Terry Rd. to Wilson Hall Rd.	0.52	\$10,088,000	N/A	10	11	2	11	7	3	42.45	43
N-2	L	Diebold Dr. Extension	Electric Dr. to E Wesmark Blvd. Ext.	0.09	\$1,746,000	N/A	7	6	2	11	7	10	40.65	46
N-15	S-67	E. Charlotte Ave.	Oswego Hwy. to E. Calhoun St. Extension	0.55	\$10,670,000	N/A	3	11	6	11	7	3	37.25	49
N-11	S-445	W. Moore St.	Susie Rembert St. to Albert Dr.	0.16	\$3,104,000	N/A	10	7	2	6	7	7	37.2	50
N-12	S-495	Dew St.	Porter St. to Dew St.	0.21	\$4,074,000	N/A	10	7	2	6	7	7	37.2	51
N-7	L	Industrial Rd.	High St. to E. Red Bay Rd.	0.16	\$3,104,000	N/A	10	8	2	2	7	7	34.2	52
N-16	L	E. Red Bay Rd.	Boulevard Rd. to Toole St.	2.58	\$50,052,000	N/A	3	18	6	2	7	0	32.6	53
N-9	S-1270	Dugan St.	Council St. to S Washington St.	1	\$19,400,000	N/A	10	7	2	6	7	3	32.4	54
N-10	L	Grier St.	Johnson Alley to Loring Dr.	0.14	\$2,716,000	N/A	3	7	2	6	7	7	27.4	55
N-13	S-1098	Marshall Cemetery Rd.	Saint Edmunds Dr. to US-521 South	1.62	\$31,428,000	N/A	3	11	6	2	7	1	25.4	56
N-17	L	Tivoli Rd.	Tivoli Rd. to Bar Zee Dr.	0.39	\$7,566,000	N/A	3	4	2	2	7	5	17.2	57

UNCONSTRAINED ROADWAY PROJECT RANKINGS (CORRIDOR)

Table 7.5 - Project Evaluation Matrix - Proposed Corridor Projects (Road Diet)

Project ID	Route	Route Name	Project Extents	Length (mi)	Cost Estimate (2050)	Current Functional Classification	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
RD-3	SC-763	E. Liberty St.	N./S. Harvin St. to Boulevard Rd.	0.58	\$3,375,600	Principal Arterial	7	14	17	15	16	17	94	4
RD-5	SC-763	W. Liberty St.	N./S. Sumter St. to Alice Dr.	1.78	\$10,359,600	Principal Arterial	7	12	17	15	18	13	89.7	8
RD-1	S-4370	N./S. Washington St.	Warren St. to Dingle St.	0.84	\$4,888,800	Principal Arterial/ Minor Arterial/ Local	7	9	17	15	16	17	88.75	9
RD-6	SC-401	W./E. Calhoun St.	N Washington St. to Commerce St.	0.71	\$4,132,200	Principal Arterial	7	13	15	15	18	12	87.5	10
RD-4	S-107	N./S. Harvin St.	E. Calhoun St. to CSX Railroad	0.65	\$3,783,000	Major Collector	7	13	8	15	14	17	80.2	13
RD-2	S-118	E./W. Bartlette St.	S. Harvin St. to Council St.	0.36	\$2,095,200	Minor Arterial/ Local	7	10	4	15	14	11	66.3	22

Table 7.6 - Project Evaluation Matrix - Proposed Corridor Projects (Safety Improvement)

Project ID	Route	Route Name	Project Extents	Length (mi)	Cost Estimate (2050)	Current Functional Classification	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
S-5	US-76	Broad St.	Miller Rd. to Warren St.	1.22	\$4,733,600	Principal Arterial	10	12	17	17	16	17	97.95	1
S-6	US-521	Camden Hwy.	Broad St to Mason Rd.	1.91	\$7,410,800	Principal Arterial	7	12	20	17	16	15	96	2
S-8	US-521	N./S. Guignard Drive.	Miller Rd. to McCray's Mill Rd.	1.8	\$6,984,000	Principal Arterial	3	15	20	17	16	15	94.95	3
S-4	US-76	Broad St.	Alice Dr. to Miller Rd.	2.11	\$8,186,800	Principal Arterial	7	15	20	17	16	10	93.9	5
S-12	US-15	N./S. Lafayette Dr.	Loring Dr. to Divine St.	0.82	\$3,181,600	Principal Arterial	10	15	17	15	16	12	93.75	6
S-2	US-378	Broad St.	North Saint Pauls Church Rd. to Stamey Livestock Rd.	1.85	\$7,178,000	Principal Arterial	3	9	20	12	16	15	83.4	11
S-3	US-378	Broad St.	Stamey Livestock Rd. to Alice Dr.	1.57	\$6,091,600	Principal Arterial	3	9	20	12	16	15	83.4	12
S-13	S-5	Manning Ave.	US-15 to Divine St.	1.19	\$4,617,200	Minor Arterial	7	10	10	15	12	17	77.65	14
S-7	US-15	N. Main St.	N. Pike E./W. to E. Brewington Rd.	2.74	\$10,631,200	Principal Arterial	7	17	10	12	16	8	76.6	15
S-9	US-378	Robert E. Graham Freeway	Broad St. to N. Main St.	2.58	\$10,010,400	Principal Arterial - Freeway)	3	15	17	10	18	4	74.55	17
S-10	SC-401	W. Calhoun St.	N. Washington St. to N. Guignard Dr.	1.06	\$4,112,800	Major Collector	7	10	8	12	14	17	74.5	18
S-11	S-14	N. Main St.	US-15 to W. Calhoun St.	1.34	\$5,199,200	Minor Arterial	7	7	10	15	14	15	74.5	19
S-1	US-378	Broad St.	SC-441 to North Saint Pauls Church Rd.	3.26	\$12,648,800	Principal Arterial	7	5	20	10	16	8	73.65	20

UNCONSTRAINED ROADWAY PROJECT RANKINGS (INTERSECTION)

Table 7.7 - Project Evaluation Matrix - Proposed Intersection Projects (Safety)

Project ID	Route 1	Route 1 Name	Route 2	Route 2 Name	Cost Estimate (2050)	Current Functional Classification	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
IS-4	US-521	N. Guignard Dr.	SC-763	W. Liberty St.	\$6,790,000	Major Arterial	10	13	20	17	18	15	102.25	1
IS-19	US-378	Robert E. Graham Freeway	US-521	Thomas Sumter Hwy.	\$4,850,000	Major Arterial	7	10	20	17	16	17	95.6	2
IS-3	S-55	Miller Rd.	US-521	N. Guignard Dr.	\$4,850,000	Major Arterial	10	10	15	20	18	12	93.55	3
IS-2	US-378	Broad St.	S-911	Alice Dr.	\$6,790,000	Major Arterial	10	10	15	17	18	15	93.45	4
IS-10	SC-763	E. Liberty St.	US-15	S. Lafayette Dr.	\$4,850,000	Major Arterial	10	11	17	15	18	12	91.3	5
IS-11	US-378	Broad St.	S-692	Wilson Hall Rd.	\$4,850,000	Major Arterial	10	7	15	12	16	17	84.7	6
IS-6	US-378	Broad St.	S-55	Miller Rd.	\$4,850,000	Major Arterial	10	7	12	20	16	12	84.25	8
IS-22	US-378	Broad St.	S-380	N. Wise Dr.	\$4,850,000	Major Arterial	10	8	12	17	14	12	79.8	9
IS-5	US-378	Broad St.	S-68	N. Purdy St.	\$4,850,000	Major Arterial	10	5	12	17	12	17	79.35	10
IS-23	SC-911	Alice Dr.	S-55	Miller Rd.	\$4,850,000	Minor Arterial	10	8	8	20	16	8	76.75	13
IS-13	SC-763	Wedgefield Rd.	SC-441	Loring Mill Rd.	\$4,850,000	Minor Arterial	10	3	8	20	12	17	75.9	14
IS-8	US-15	US-15 South	US-521	S. Guignard Dr.	\$9,700,000	Major Arterial	10	7	17	12	16	6	74.95	15
IS-9	US-15	Pocalla Rd.	S-25	Lewis Rd.	\$4,850,000	Major Arterial	10	9	11	12	14	12	74.85	16
IS-21	US-15	N. Main St.	S-271	Airport Rd.	\$4,850,000	Major Arterial	10	11	6	12	12	12	68.65	20
IS-14	US-378	Broad St.		Shaw Dr.	\$4,850,000	Major Arterial	10	5	12	15	12	8	67.8	21
IS-20	SC-763	E. Liberty St.	S-82	Boulevard Rd.	\$4,850,000	Major Arterial	3	7	10	10	14	17	66.85	24
IS-7	US-521	S. Guignard Dr.		Manning Rd.	\$4,850,000	Major Arterial	10	9	12	8	12	8	64.85	26
IS-12	US-378	Myrtle Beach Hwy.	S-723	Plowden Mill Rd.	\$4,850,000	Major Arterial	10	7	12	6	12	12	64.75	27
IS-18	US-521	Thomas Sumter Hwy.	S-1342	Old Camden Hwy.	\$14,550,000	Major Arterial	10	7	12	12	12	4	62.45	30
IS-15	US-521	Camden Hwy.	S-1342	Spencer Rd.	\$4,850,000	Major Arterial	10	5	10	8	12	12	62.25	31
IS-1	US-378	Broad St.	SC-261	N. Kings Hwy.	\$4,850,000	Major Arterial	7	7	12	10	12	8	61.6	32
IS-17	SC-763	Wedgefield Rd.	S-40	North Saint Paul's Church Rd.	\$4,850,000	Major Collector	10	2	6	6	14	17	60.1	34
IS-16	US-521	Camden Hwy.	S-76	Dinkins Mill Rd.	\$4,850,000	Major Arterial	10	5	10	8	12	8	58.05	35

UNCONSTRAINED ROADWAY PROJECT RANKINGS (INTERSECTION)

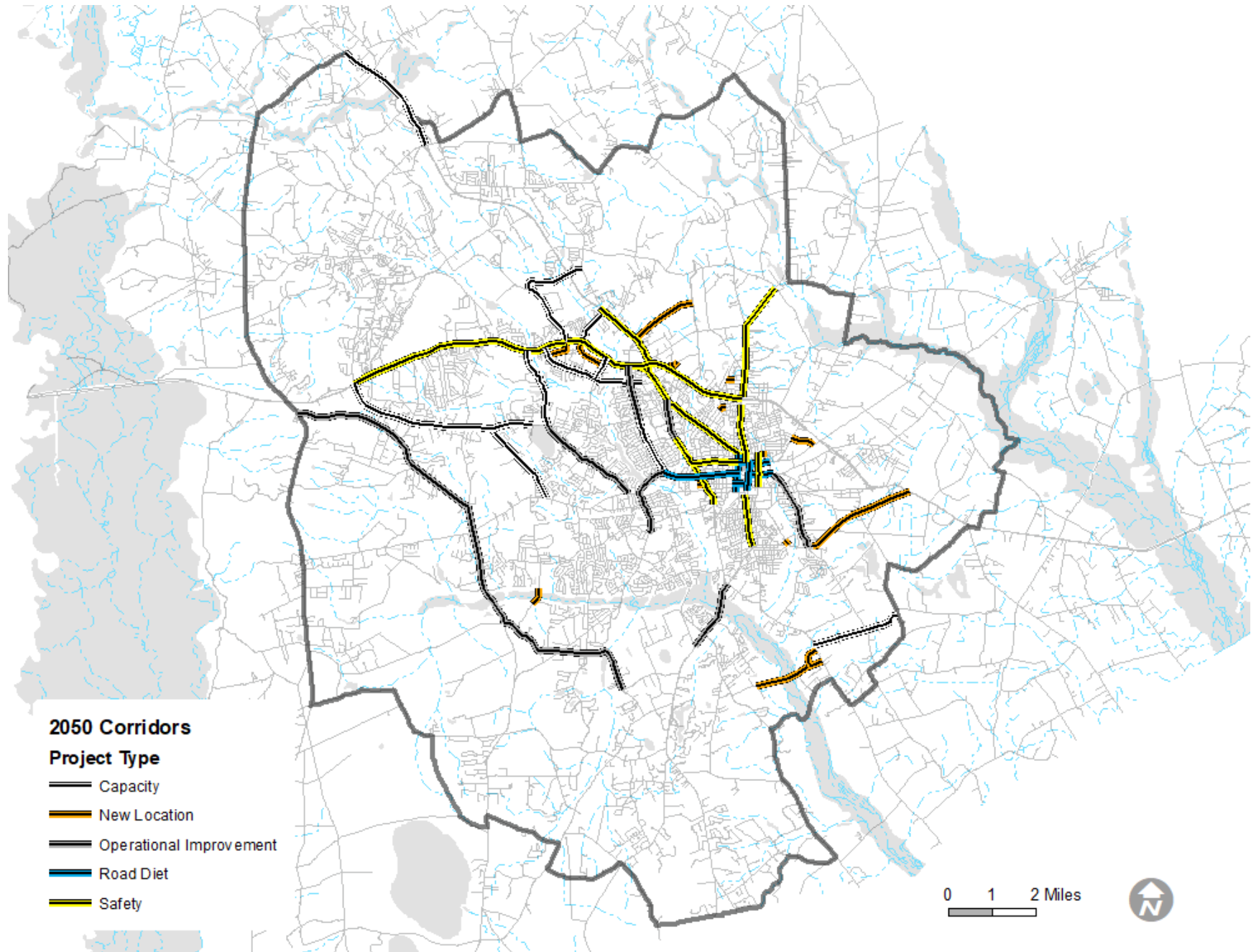
Table 7.8 - Project Evaluation Matrix - Proposed Intersection Projects (New Location)

Project ID	Route 1	Route 1 Name	Route 2	Route 2 Name	Cost Estimate (2050)	Current Functional Classification	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
IN-1	S-1074	W. Wesmark Blvd.	US-378	Robert E. Graham Freeway	\$9,700,000	Major Arterial	10	23	12	15	9	6	63.85	28
IN-2	S-55	Miller Rd.	US-378	Robert E. Graham Freeway	\$9,700,000	Major Arterial	10	21	12	20	14	6	61.45	33

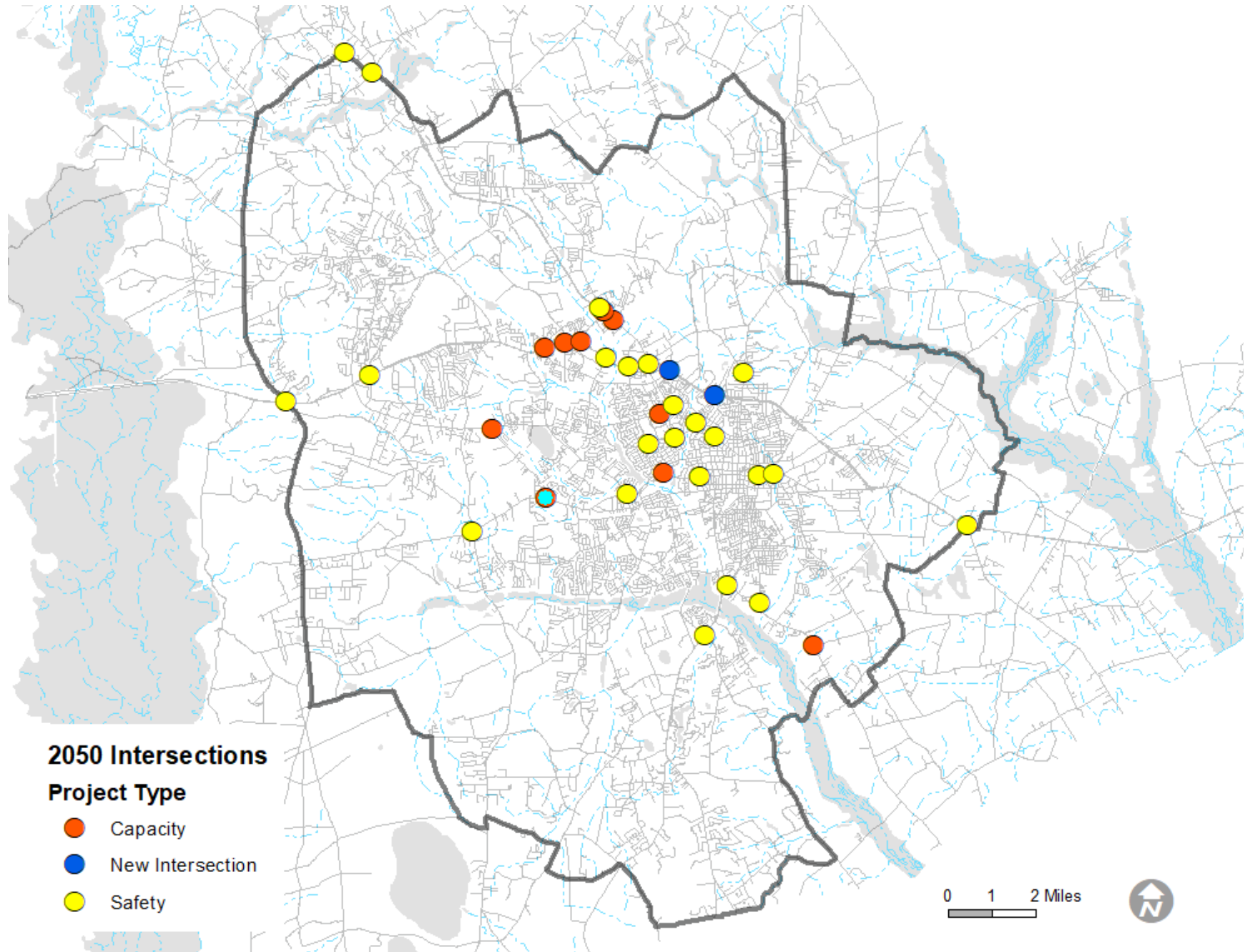
Table 7.9 - Project Evaluation Matrix - Proposed Intersection Projects (Operational Improvement)

Project ID	Route 1	Route 1 Name	Route 2	Route 2 Name	Cost Estimate (2050)	Current Functional Classification	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
IO-8	US-521	Thomas Sumter Hwy.	S-673	Mason Rd.	\$6,790,000	Major Arterial	10	12	12	17	11	15	84.25	7
IO-4	US-378	Broad St.	S-673	Mason Rd.	\$9,700,000	Major Arterial	10	11	15	17	9	10	79.3	11
IO-7	US-521	Thomas Sumter Hwy.	S-947	Beckwood Rd.	\$6,790,000	Major Arterial	10	8	15	17	7	15	79.05	12
IO-6	S-911	Alice Dr.	SC-763	West Liberty St.	\$6,790,000	Major Arterial	10	8	8	20	11	10	73.45	17
IO-3	US-378	Broad St.	S-91	Stamey Livestock Rd.	\$9,700,000	Major Arterial	10	10	15	12	9	10	72.95	18
IO-5	S-644	N. Guignard Dr.	S-380	Wise Dr.	\$6,790,000	Major Collector	3	10	6	20	9	15	68.95	19
IO-1	SC-441	Patriot Pkwy.	S-983	Deschamps Rd.	\$6,790,000	Minor Arterial	10	5	8	17	7	15	67.55	22
IO-9	US-521	US-521 South	L-	Race Track Rd.	\$6,790,000	Major Arterial	10	13	12	13	7	6	66.9	23
IO-10	SC-763	Wedgefield Rd.	S-983	Deschamps Rd.	\$6,790,000	Minor Arterial	10	3	4	20	9	15	66.2	25
IO-2	US-378	Broad St.	S-467	Carter Rd.	\$9,700,000	Major Arterial	10	5	15	12	5	10	63.25	29

IDENTIFIED CORRIDORS FOR IMPROVEMENT (UNCONSTRAINED)



IDENTIFIED INTERSECTIONS FOR IMPROVEMENT (UNCONSTRAINED)



TRANSPORTATION IMPROVEMENTS TOOLBOX

ACCESS MANAGEMENT

In an environment of revenue-constrained transportation planning, access management is not just good policy but is essential to the integrity of the entire transportation network. Access management balances the needs of motorists using a roadway with the needs of adjacent property owners dependent upon access to the roadway.

A corridor with poor access management includes endless driveways and several traffic signals. Poor access management has a direct impact on the livability and economic vitality of commercial corridors, ultimately discouraging potential customers.

Signs of a corridor with poor access management include:

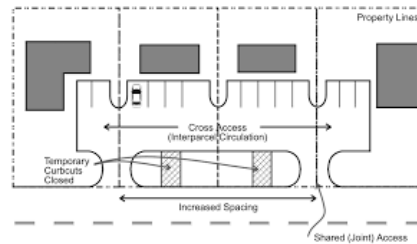
- More crashes
- Increasingly poor efficiency of the road
- Congestion outpacing increase in traffic
- Spillover cut-through traffic on adjacent residential streets
- Limited sustainability of commercial development

As development continues to concentrate around heavily traveled corridors, protecting through capacity is important for the economic vitality of the region. Without access management, the function and character of major roadway corridors can deteriorate rapidly and adjacent properties can suffer from declining property values and high turnover.

DRIVEWAYS

DRIVEWAY CONSOLIDATION

Shared access driveways minimize curb cuts and reduce traffic conflicts. They are particularly effective near intersections.



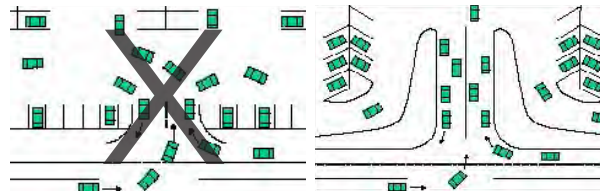
DRIVEWAY PLACEMENT

Driveways located close to intersections create and contribute to operational and safety issues. These issues include intersections and driveway blockages, increased points of conflict, frequent/unexpected stops in the through travel lanes, and driver confusion as to where vehicles are turning.



IMPROVED ON-SITE CIRCULATION

On-site traffic circulation can be improved by managing the driveway throat length, defined as the distance from the edge of the public street to the first internal site intersection. Adequate separation should be provided to prevent internal site operations from affecting an adjacent public street.



DRIVEWAY CURB RADII

Locations with inadequate curb radii can cause turning vehicles to use opposing travel lanes to complete their turns. Inadequate curb radii may cause vehicles to "mount the curb" as they turn a corner and cause damage to the curb and gutter, sidewalk, and any fixed objects located on the corner.



TRANSPORTATION IMPROVEMENTS TOOLBOX

Proven Safety Countermeasures



Enhanced
Delineation and
Friction for Horizontal
Curves



Longitudinal
Rumble Strips
and Stripes
on Two-Lane
Roads



Median Barrier



Safety Edge



Backplates with
Retroreflective
Borders



Corridor Access
Management



Dedicated Left-
and Right-Turn
Lanes at
Intersections



Roundabouts



Yellow Change
Intervals



Medians and
Pedestrian
Crossing Islands
in Urban and
Suburban Areas



Pedestrian Hy-
brid Beacon



Road Diets



Walkways



Road Safety
Audit

Figure 54: Safety Guideline
Source: Federal Highways Administration

SAFETY

The region has expressed a growing concern for key corridors experiencing congestion, travel delay, and safety issues. To preserve mobility and protect the overall efficiency of the network, the project team developed a toolbox of “best practices” so the region can respond to changing developmental pressures.

Rather than specific project recommendations, this toolbox allows the region to remain flexible when calling upon evidence-based procedures to make the best planning decisions for the region's future. On the following pages, a set of tools and guidelines for intersection safety improvements, access management, and connectivity provide guidance to and demonstrate examples of how SUATS can apply these strategies moving forward.

TRANSPORTATION IMPROVEMENTS TOOLBOX



DEDICATED TURN LANES

Auxiliary turn lanes—either for left turns or right turns—provide physical separation between turning traffic that is slowing or stopped and adjacent through traffic at approaches to intersections. Turn lanes can be designed to provide for deceleration prior to a turn, as well as for storage of vehicles that are stopped and waiting for the opportunity to complete a turn.

Left-Turn Lane

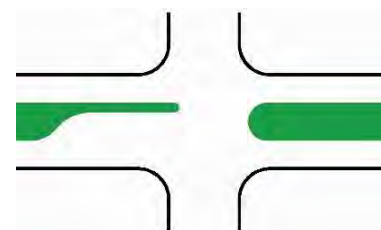

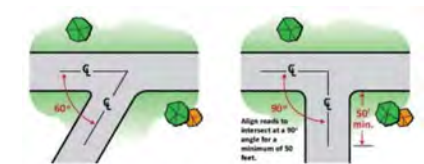
28-48%
reduction in total crashes¹

Right-Turn Lanes




14-26%
reduction in total crashes²

¹ Harwood et al. Safety Effectiveness of Intersection Left- and Right-Turn Lanes. FHWA-HRD-02-089, (2002).

² Persaud et al. Safety Evaluation of Offset Improvements for Left-Turn Lanes. FHWA-HRT-09-035, (2009).

INTERSECTIONS			
MEDIAN TREATMENTS		LEFT TURN STORAGE BAYS	
<p>Non-Traversable Median These features are raised or depressed cross section elements that physically separate opposing traffic flows. Inclusion in a new cross section or retrofit of an existing cross section should be considered for some multi-lane arterials (general) and for multi-lane roadways with high pedestrian volumes, high collision rates, or in locations where aesthetics are a priority. As these treatments are considered, sufficient spacing and locations for U- and left-turn bays must be identified. Approximate construction cost varies.</p>		<p>Where possible, exclusive left-turn lanes/bays should be constructed to provide adequate storage space for turning vehicles, exclusive of through traffic. The provision of these bays reduces vehicle delay related to waiting turning vehicles and may also decrease the frequency of rear-end and other collisions attributable to lane blockages. In some cases turn bays/lanes can be constructed within an existing median, in other cases, additional right-of-way is required and construction may be more costly.</p> 	
OFFSET LEFT TURN TREATMENT		REALIGNMENT	
<p>Exclusive left turn lanes at intersections are generally configured in such a way as to cause opposing left turning vehicles to block one another's forward visibility. An offset left turn treatment involves shifting the left turn lanes to the left, adjacent to the innermost lane of oncoming through traffic. In cases where permissive left turn phasing is used, this treatment can improve efficiency by reducing crossing and exposure time and distance for left-turning vehicles. In addition, the positive off-set improves sight distance and may improve gap recognition. Where there is sufficient median width, this treatment can be easily retrofitted. Where there is not sufficient right-of-way width, the construction of this treatment can be difficult and costly.</p> 		<p>Roadways are realigned to meet at as close to a 90-degree angle as possible. This improves visibility and turning radius</p> 	

TRANSPORTATION IMPROVEMENTS TOOLBOX

INTERSECTIONS	
<p>DIRECTIONAL CROSSOVER</p> <p>A leftover is a type of directional crossover that prohibits drivers on the cross road (side street) from proceeding straight through the intersection with the main road. The treatment is especially helpful in locations where traffic needs to make left turns from the main line onto the minor street. A properly implemented left-over crossing reduces delay for through-traffic and diverts some left-turn maneuvers from intersections.</p> 	<p>SKIP MARKS (DOTTED LINE MARKINGS)</p> <p>These pavement markings can reduce driver confusion and increase safety by guiding drivers through complex intersections. Intersections that benefit from these lane markings include offset, skewed or multi-legged intersections. Skip marks are also useful at intersections with multiple turn lanes. The dotted line markings extend through the intersection the line markings of approaching roadways. The markings should be designed not to confuse drivers in adjacent or opposing lanes.</p> 
<p>ROUNDABOUTS</p> <p>Replacing a traditional signalized intersection with a roundabout reduces the number of serious crashes while improving traffic flow.</p> 	<p>SIGNALIZATION</p> <p>Sometimes the volume of traffic attracted to some side streets or site driveways is more than can be accommodated acceptably under an unsignalized condition. Delays for minor street movements as well as left turn movements on the main street may create or contribute to undue delays on the major roadway and numerous safety issues. The installation of a traffic signal at appropriate locations can mitigate these types of issues without adversely affecting the operation of the major roadway.</p> <p>This technology involves continuously collecting automated intersection traffic volumes and using the volumes to alter signal timing and phasing to best accommodate actual—real time—traffic volumes. Adaptive signal control can increase isolated intersection capacity as well as improve overall corridor mobility by up to twenty percent during off-peak periods and 10% during peak periods.</p>



ROUNDABOUTS

The modern roundabout is an intersection with a circular configuration that safely and efficiently moves traffic. The net result of lower speeds and reduced conflicts at roundabouts is an environment where crashes that cause injury or fatality are substantially reduced.

Two-way Stop-Controlled Intersection to Roundabout

82%
reduction in fatal and injury crashes¹

Signalized Intersection to Roundabout

78%
reduction in fatal and injury crashes¹

¹ AASHTO. The Highway Safety Manual, American Association of State Highway Transportation Professionals, Washington, D.C., (2010).

TRANSPORTATION IMPROVEMENTS TOOLBOX



CROSSWALKS

A marked crosswalk or pedestrian warning sign can improve safety for pedestrians crossing the road, but at times may not be sufficient for drivers to visibly locate crossing locations and yield to pedestrians.

A pedestrian refuge island (or crossing area) is a median with a refuge area that is intended to help protect pedestrians who are crossing a road.

Pedestrian Refuge Island

56%
reduction in Pedestrian
crashes¹

**Rectangular Rapid Flash
Beacons (RRFBs) can
reduce crashes up to**

47%
for Pedestrian crashes²

¹ Desktop Reference for Crash Reduction Factors, FHWA-SA-08-011, September 2008, Table 11.

² NCHRP Research Report 841 Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments, (2017).

Crosswalk visibility and pedestrian refuge enhancements help make crosswalks and the people using them safer. These include high-visibility crosswalks, lighting, and signing, pavement markings, and pedestrian islands, medians, and bulb-outs. These enhancements can also assist users in deciding where to cross. Agencies can implement these features as standalone or combination enhancements to indicate the preferred location for users to cross.

High-visibility crosswalks - use patterns (i.e., bar pairs, continental, ladder) that are visible to both the driver and pedestrian from farther away compared to traditional transverse line crosswalks.

Improved Lighting - The goal of crosswalk lighting should be to illuminate with positive contrast to make it easier for a driver to visually identify the pedestrian.



Crosswalk Visibility Examples
(Source: FHWA)



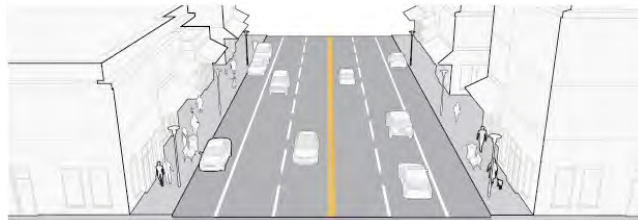
Crosswalk with Pedestrian Refuge Island
(source: NACTO Urban Street Design Guide)

TRANSPORTATION IMPROVEMENTS TOOLBOX

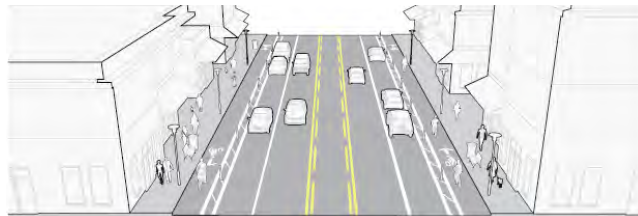
Benefits of Road Diet installations may include:

- Reduction of rear-end and left-turn crashes due to the dedicated left-turn lane.
- Reduced right-angle crashes as side street motorists cross three versus four travel lanes.
- Fewer lanes for pedestrians to cross.
- Opportunity to install pedestrian refuge islands, bicycle lanes, on-street parking, or transit stops.
- Traffic calming and more consistent speeds.
- A more community-focused, Complete Streets environment that better accommodates the needs of all road users.

A Road Diet can be a low-cost safety solution when planned in conjunction with a simple pavement overlay, and the reconfiguration can be accomplished at no additional cost. Typically, a Road Diet is implemented on a roadway with a current and future average daily traffic of 25,000 or less.

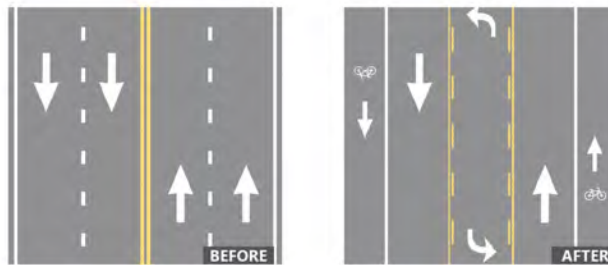


Typical 4-lane Road with on-street parking



3-lane Road Diet (with center two-way left-turn lane), with on-street parking and separated bicycle lane)

(Source: NACTO Urban Street Design Guide)



Before and after diagram of a 4-lane to 3-lane Road Diet
(Source: FHWA)



ROAD DIETS

A Road Diet, or roadway reconfiguration, can improve safety, calm traffic, provide better mobility and access for all road users, and enhance overall quality of life. A Road Diet typically involves converting an existing four-lane undivided roadway to a three-lane roadway consisting of two through lanes and a center two-way left-turn lane (TWLTL).

4-lane to 3-lane Road Diet Conversions

19-47%
reduction in total crashes¹

1 (CMF ID: 5554, 2841) Evaluation of Lane Reduction "Road Diet" Measures on Crashes, FHWA-HRT-10-053, (2010).

COMPLETE STREETS

Complete Streets are community-oriented streets that safely and conveniently accommodate multiple modes of travel. They are designed and operated to enable safe access for all users, including pedestrians, bicyclists, motorists, and transit riders of all ages and abilities. Complete Streets make it easy to cross the street, walk to shops, and bicycle to work. They allow buses to run on time.

Creating Complete Streets means we must change our approach to street design. By adopting Complete Streets policies, communities direct planners and engineers to routinely design and operate the entire right-of-way to enable safe

access for all users, regardless of characteristics. This means that every transportation project will make the street network better and safer for drivers, transit users, pedestrians, and bicyclists - making places more livable.

WHAT DOES A COMPLETE STREET LOOK LIKE?

There is no singular design prescription for a Complete Street; each is unique and responds to its own community context. A Complete Street may include: sidewalks, bike lanes (or wide paved shoulders), special bus lanes, comfortable and accessible public transit stops, frequent

and safe crossing opportunities, median islands, accessible pedestrian signals, curb extensions, narrower travel lanes, roundabouts, and more.

Through this LRTP, SUATS seeks to balance regional mobility and multimodal accessibility in order to provide effective transportation infrastructure for all users by identifying first the corridors where improvements are needed, followed by design of improvements for each mode of travel.

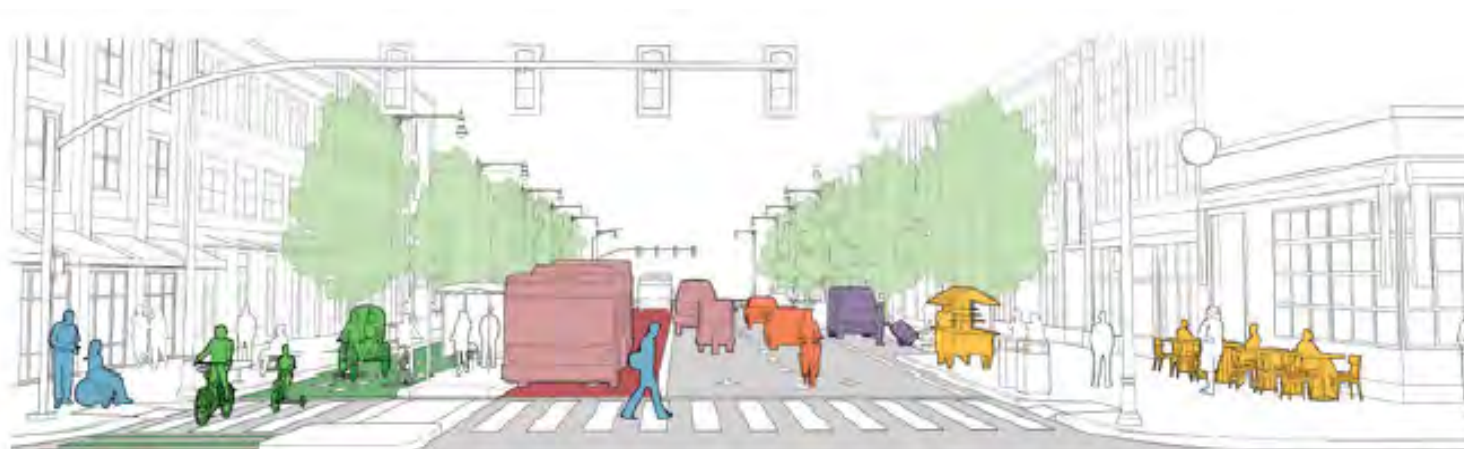


Figure 68: Complete Street Design

Source: <https://globaldesignincities.org/publication/global-street-design-guide/designing-streets-people/a-variety-of-street-users/>



CORRIDOR RECOMMENDATIONS

Corridor Recommendations

The roadway improvement projects recommended in this plan take several forms. The diagrams below explain some of the most common project types.

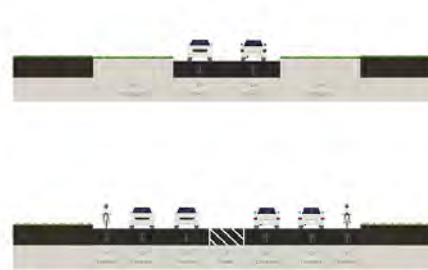
Roadway Design Improvement

Widen travel lanes, add paved shoulders and adjust roadway dimensions to current standards.



Widening

Add travel lanes to increase capacity.



Corridor Improvements

Repave, add pedestrian and bicycle infrastructure, improve intersections, and streetscape.



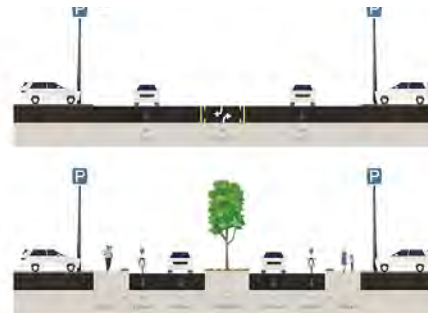
Road Diet

Reduce travel lanes, improve safety, and add bicycle and pedestrian infrastructure.



Access Management

Restrict turns, improve lane markings, and consolidate driveways to improve safety and flow.



New Roadway

Construct new roadways to improve the region's overall connectivity.





CHAPTER 8

WALK + BIKE



CHAPTER 8

WHY WALK + BIKE?

EXISTING WALK + BIKE FACILITIES

WALK + BIKE NETWORK DEVELOPMENT

WALK + BIKE TRIP POTENTIAL (EXISTING DESTINATIONS)

WALK + BIKE TRIP POTENTIAL

WALK + BIKE FACILITY SELECTION

WALK + BIKE NETWORK RECOMMENDATIONS

PROJECT RANKINGS (FISCALLY UNCONSTRAINED)

RECOMMENDED PROJECTS MAP

SUMTER'S "GRAND LOOP" GREENWAY

MICROMOBILITY (BIKESHARE AND SCOOTERSHARE)

WALK + BIKE CRASHES

BARRIERS TO WALKING AND BIKING

WHY WALK + BIKE?

PLANNING FOR WALKING AND BIKING

Prioritizing planning, funding, and implementation of walk and bike infrastructure is an important objective for SUATS towards becoming a safer walkable and bikeable community. While pedestrian and bicycle crashes make up less than 1% of the total crashes reported for the Sumter area between 2016 and 2020, these crashes comprise nearly 14% of all serious or fatal injury crashes. This accounts for 33 of 238 crashes that resulted in a fatality or incapacitating injury involving a pedestrian or bicyclist, making it important to place emphasis on improving the pedestrian and bicycle network.

Pedestrian and bicycle crashes represent nearly 14% of all fatal and serious crashes in SUATS MPO

EXISTING BICYCLE AND PEDESTRIAN INFRASTRUCTURE

There are currently 157 miles of existing sidewalk in SUATS, based on field data collection in 2022. Most is in the City of Sumter, specifically in the downtown area. Most streets with sidewalk have it on both sides of the street, which provides pedestrians greater access and fewer potential conflicts with cars. The lack of sidewalk outside the downtown core limits pedestrian access across the study area and induces more motor vehicle trips, even for trips to nearby destinations.

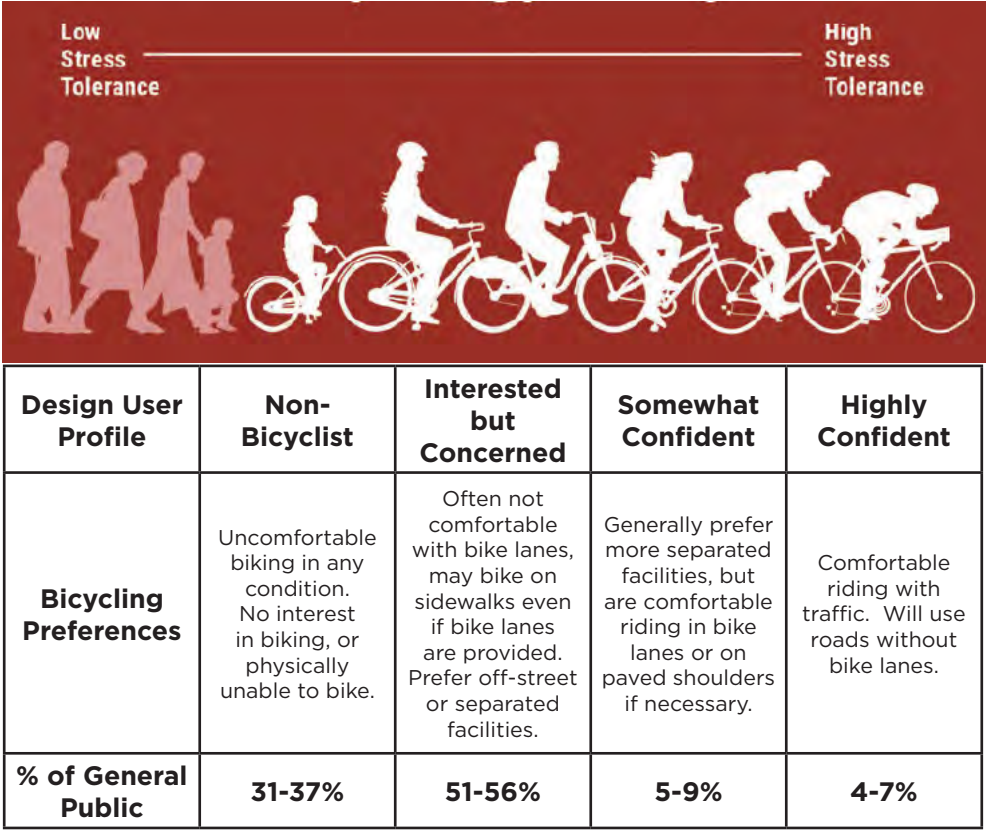
Connected bicycle networks have emerged as one of the most important ways to encourage, support, and expand bicycling for people of all ages and abilities. For people to choose to ride a bicycle, they must feel comfortable at each step of their trip. There are four existing on-street bicycle facilities within the study area, bike lanes on McCrays Mill Road and Alice Drive and a side path on Loring Mill Road/Patriot Parkway.

Several greenways and trails have also been built,

including the Cypress Trail, Shot Pouch Greenway, and a large portion of the Enduro Trail in the Manchester State Forest.

There are currently 157 miles of sidewalk in the SUATS area

Comfort Typology of Bicyclists



Facility Selection Priorities

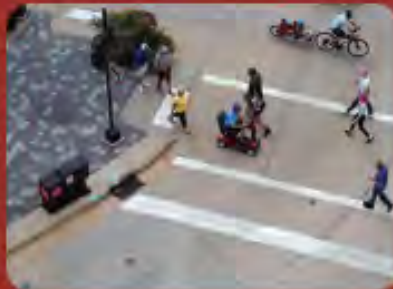
1st

SAFETY



2nd

**ACCESSIBLE FOR
ALL USERS**



3rd

**ABILITY FOR
SHORT TRIPS**



Walking and bicycling facilities
(Source: Toole Design Group)



GREENWAYS & TRAILS RANKING:

- Greenways: 96% approval
- Rail Trail: 93% approval
- Unpaved Trail: 65% approval



PEDESTRIAN FACILITIES RANKING:

- Sidewalk with Wide Buffer: 91% approval
- Shared Use Path: 89% approval
- Sidewalk with narrow buffer: 63% approval
- Unbuffered Sidewalk: 36% approval



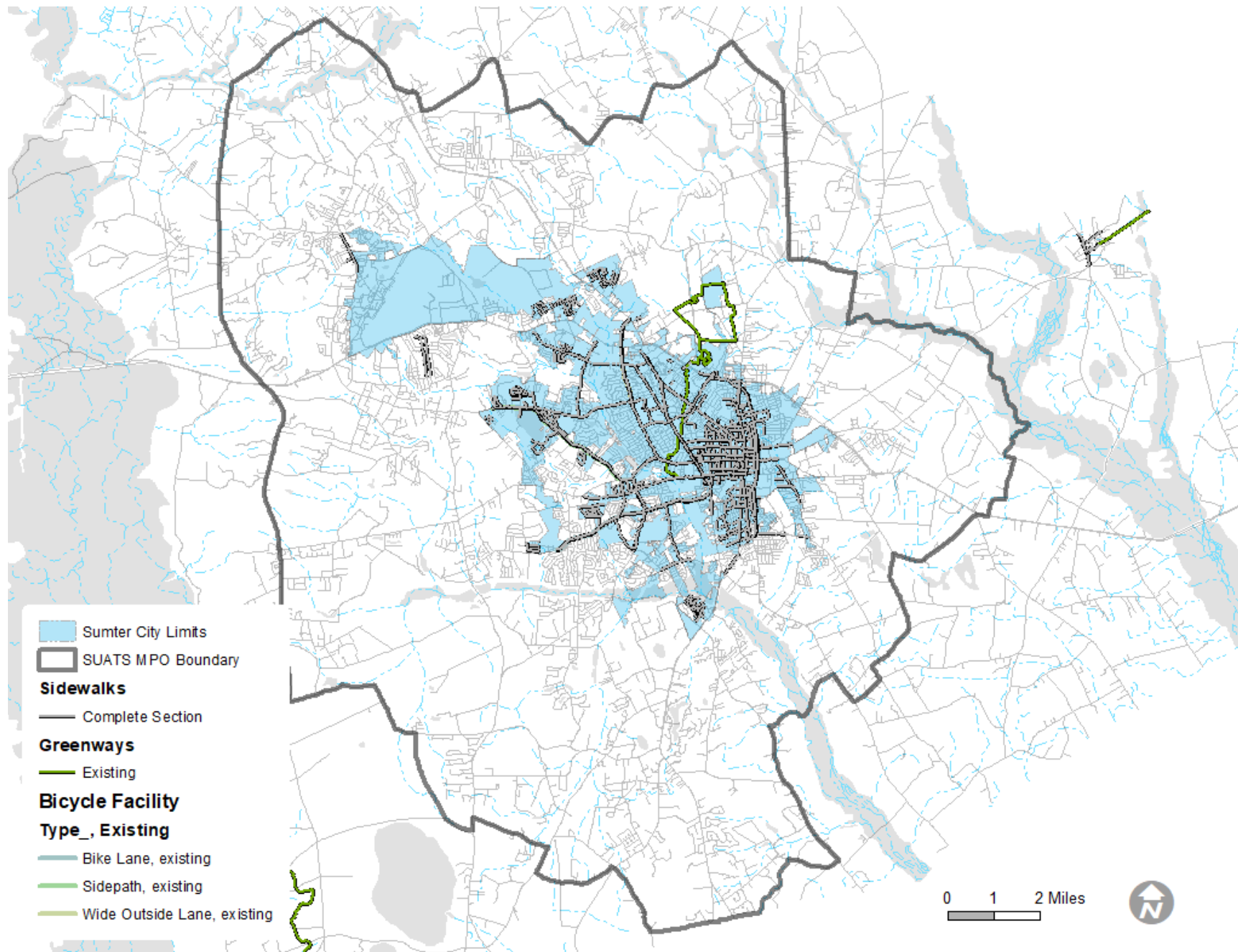
BICYCLE FACILITIES RANKING:

- Separated Bike Lane: 84% approval
- Buffered Bike Lane: 83% approval
- Standard Bike Lane: 79% approval
- Signed Bicycle Route: 44% approval
- Shared Lane/Neighborhood Bikeway: 32% approval

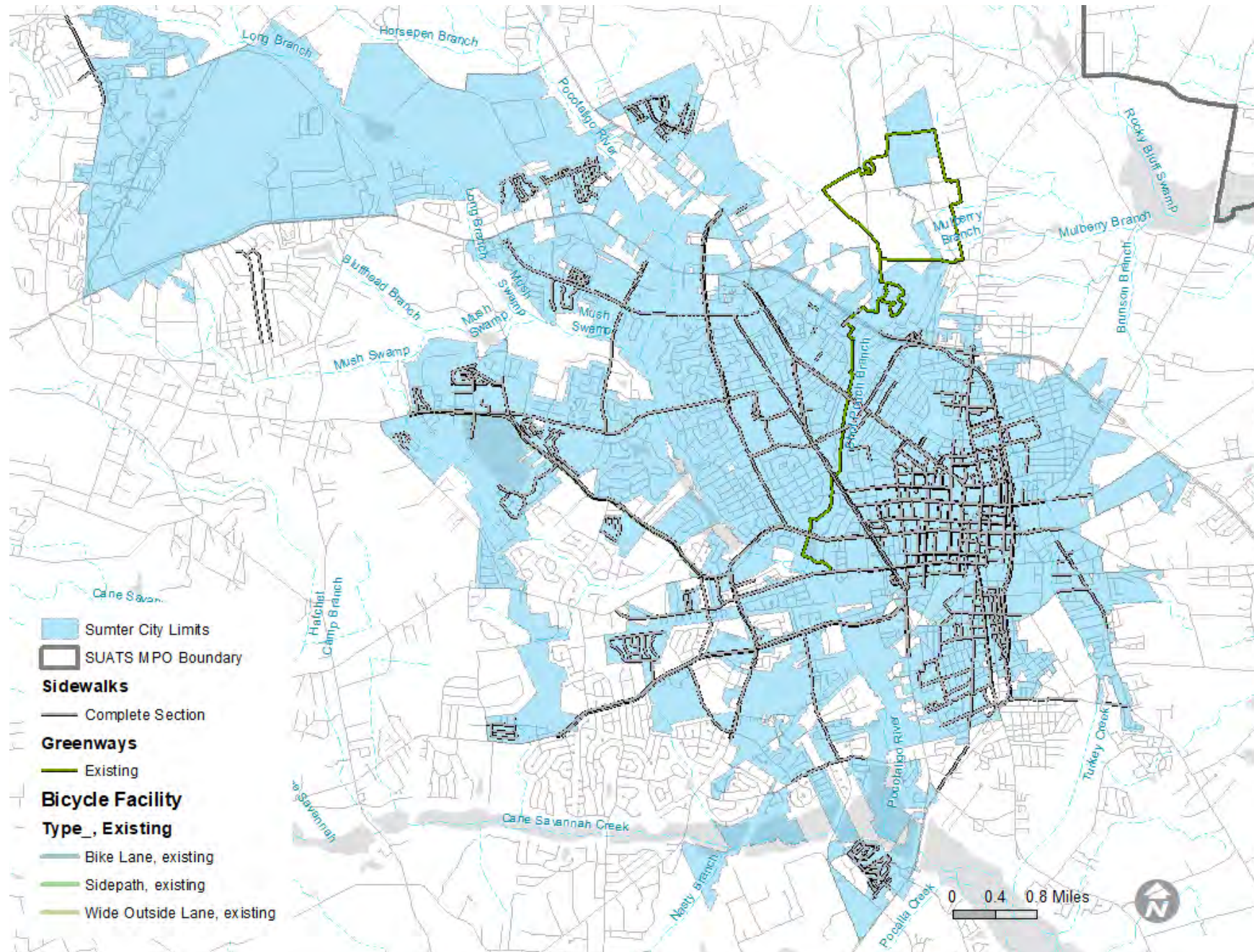


Walking and bicycling facilities (Source: Toole Design Group)

EXISTING WALK + BIKE FACILITIES (FULL REGION)



EXISTING WALK + BIKE FACILITIES (CITY LIMITS)



WALK + BIKE NETWORK DEVELOPMENT

Bicycle and pedestrian facilities provide safe, comfortable spaces for people to walk, roll, and ride. Each facility is only as valuable as the connection it makes to a destination or another facility. Without a connected network, new projects will miss the opportunity to create real transportation options for people walking and biking.

To make the most of future investments, this plan recommends a connected, continuous network of walking and biking facilities which together will be more powerful than the sum of its parts. The Walk + Bike Network represents streets and trails where investment in safe, comfortable facilities for walking and biking will have the greatest impact. The plan builds on existing infrastructure and previously planned projects and adds new connections to destinations across the growing Sumter region.

It is important to note that the Walk + Bike Network intentionally does not include every street. When implemented together though, these streets and trails have the potential to make a transformative impact on how people move for recreation, commuting, and everyday trips. A data-driven approach ensures that the network will most effectively serve the people in Sumter, and especially those who will most benefit from it.

DESTINATIONS

At its core, a good network connects people to places. The destinations map highlights key community points of interest by including:

- Commercial areas,
- Healthcare facilities,
- Multi-family housing developments,
- Mobile home parks,
- Parks, and
- Schools.

BARRIERS

The Barriers Analysis highlights islands of limited connectivity within Sumter. The barriers are identified by “breaking up” the Sumter area everywhere there is an existing potential connection. These included existing trails and local, service, and collector streets. Areas with lots of road connections were broken into many small pieces. The larger areas remaining indicate islands where future network connections are most needed.

SAFETY

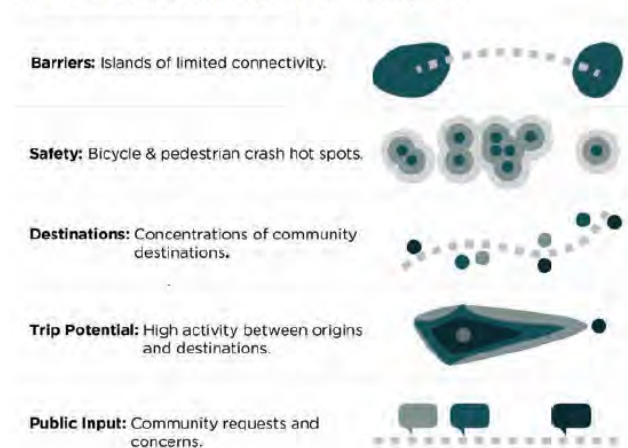
Crash hot spots identify areas where people have been struck by a vehicle while walking or biking. Because of the dispersed population in this area though, historical crash data only tells one part of the roadway safety story. Crash data does not capture near misses or places where there may be limited bicycle and pedestrian activity because people already perceive the area as unsafe.

TRIP POTENTIAL

The Trip Potential Analysis measures factors that are likely to lead to higher levels of walking and bicycling activity between two areas. It begins by identifying origin and destination points, including schools, parks, retail, employment centers and census blocks for population. Next, straight lines are drawn between all possible origin and destination pairs.

Layers of Analysis

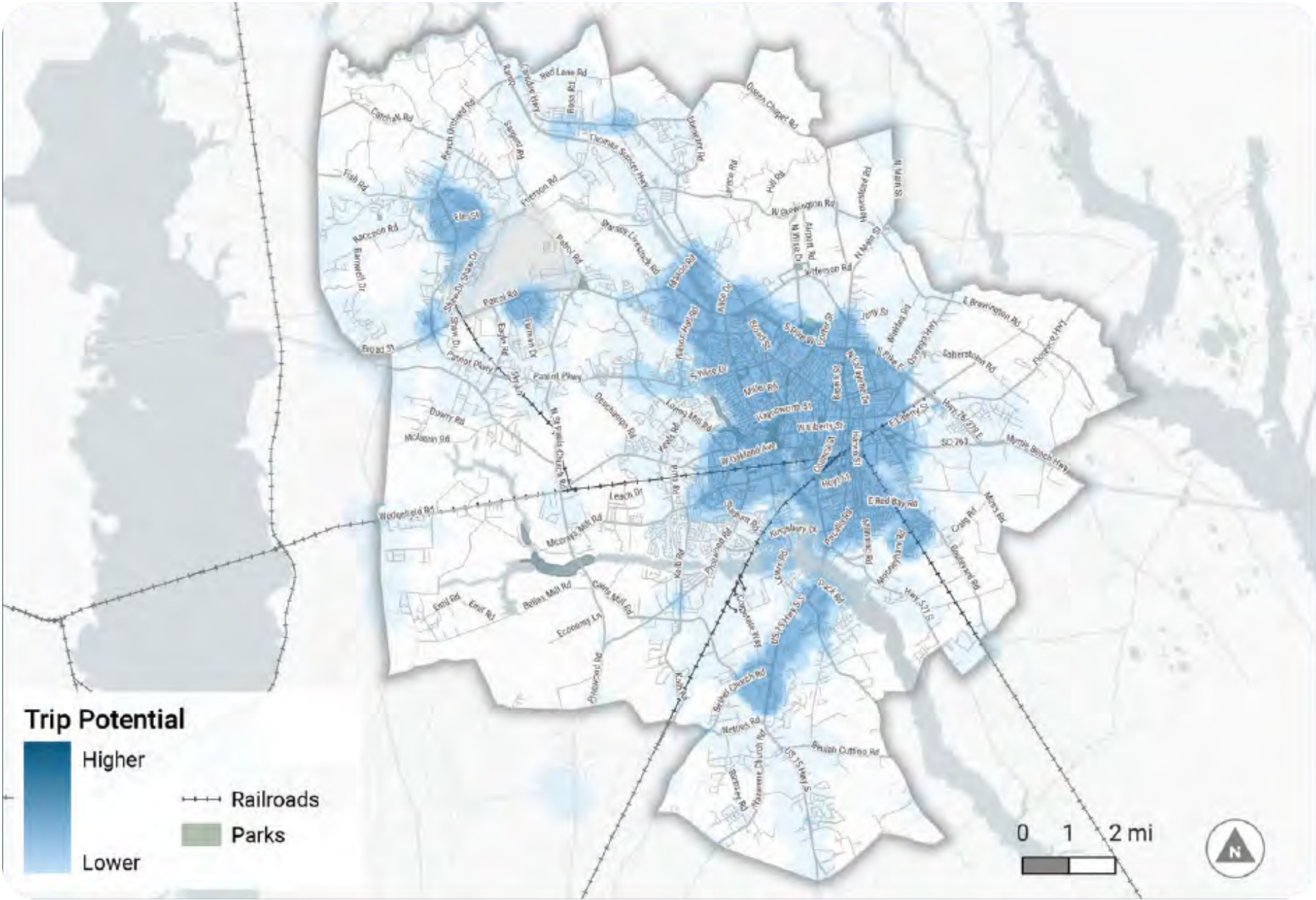
The Walk + Bike Network was developed using five overlapping layers of analyses:



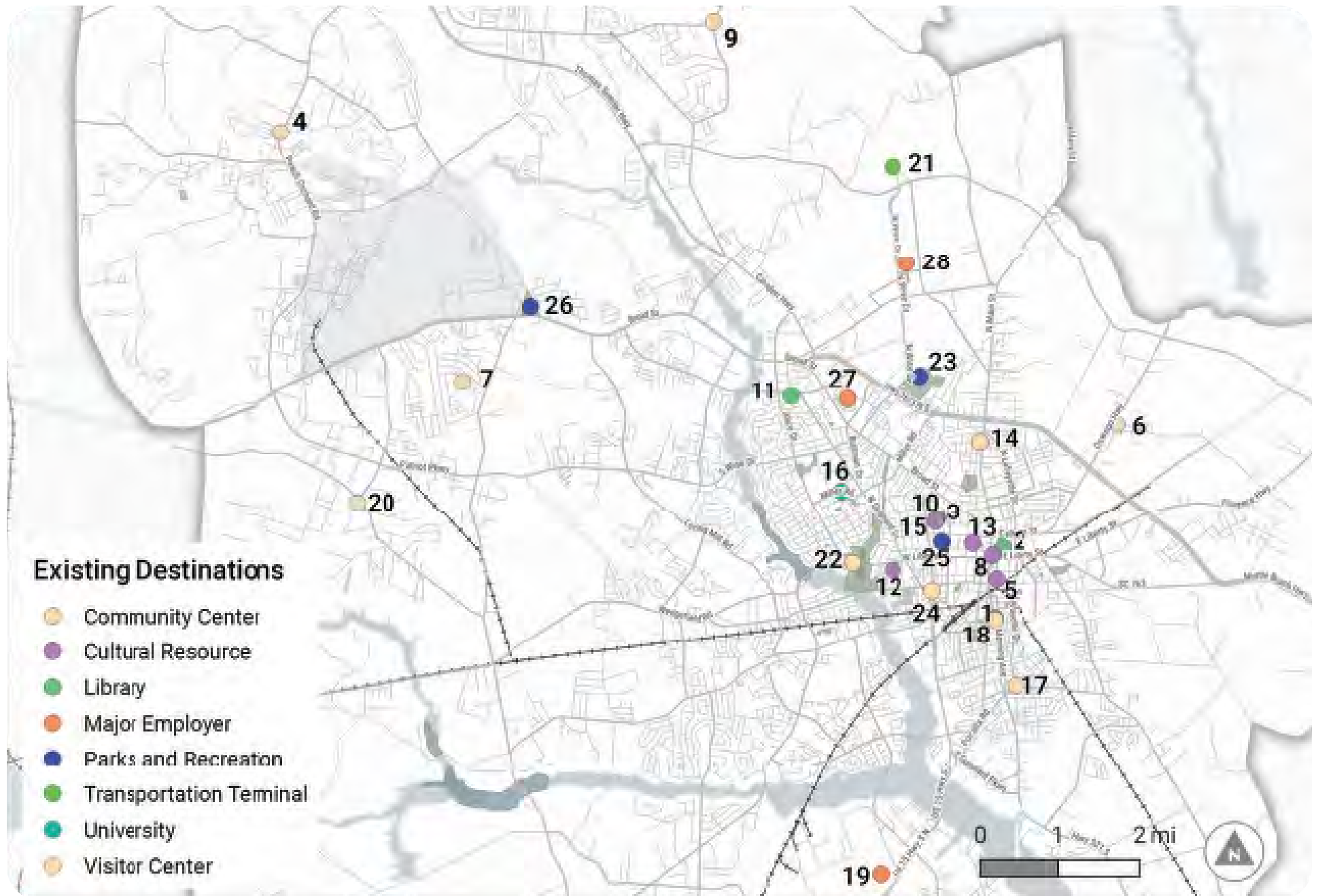
PUBLIC INPUT

The public voice was a key layer in shaping the Walk + Bike Network. Over 600 MetroQuest responses were received during targeted surveying on this topic where residents identified places they feel unsafe and where they would like to see bicycle or pedestrian improvements in the future. Paper surveys from in-person engagement events were also used to identify important community connections.

WALK + BIKE TRIP POTENTIAL



WALK + BIKE TRIP POTENTIAL (EXISTING DESTINATIONS)



WALK + BIKE TRIP POTENTIAL (EXISTING DESTINATIONS)

Table 8.1 - Existing Destinations

1	South Sumter Resource Center	11	Sumter County Library-Wesmark Branch	21	Sumter Municipal Airport
2	Sumter County Library-Main Branch	12	Sumter County Civic Center	22	Sumter Convention & Visitors Bureau
3	Sumter Little Theatre	13	Sumter County Museum	23	Dillon Park
4	Catchall-Shaw Community Center	14	North HOPE Center	24	Birnie HOPE Center
5	Sumter Military Museum	15	Patriot Hall	25	Memorial Park
6	Salterstown Community Center	16	University of South Carolina-Sumter	26	Veterans Park
7	Cherryvale Community Center	17	South HOPE Center	27	Sumter Mall
8	Sumter Opera House	18	Sumter County Library-South Sumter Branch	28	Black River Industrial Park
9	Ebenezer Community Center	19	Live Oak Industrial Park		
10	Sumter County Gallery of Art	20	DeLaine Community Center		

WALK + BIKE FACILITY SELECTION

Table 8.2 illustrates the options for walk and bike facilities according to a street's typology and context. Facility types include sidewalks, sidepaths, traffic calming, and separated bike lanes. It is important to recognize that even streets that fall within the same general typology may vary greatly in character, capacity, and context. By providing a menu of options, this LRTP, as well as the more detailed Sumter Walk+Bike Master Plan, provides flexibility to encourage implementation.

PEDESTRIAN FACILITIES



SHARED-USE FACILITIES













BICYCLE FACILITIES



Image Source: Sumter Walk+Bike Master Plan (Tooie Design Group)

CONTEXT-TYPELOGY-FACILITY MATRIX

Table 8.2 - Context-Typology-Facility Matrix

		 Arterial	 Collector	 Local Street
Downtown Core		wide sidewalk (8' min) with buffer (both sides of EVERY street)	wide sidewalk (8' min) with buffer (both sides of EVERY street)	sidewalk (both sides of EVERY street)
		separated bike lanes	separated bike lanes	traffic calming/shared lane
Urban		wide sidewalk (8' min) with buffer (both sides of the street)	wide sidewalk (8' min) with buffer (both sides of the street)	sidewalk (both sides of the street)
		separated bike lanes	separated bike lanes	traffic calming/shared lane
Suburban		wide sidewalk (8' min) with buffer (both sides near transit, parks, and schools)	wide sidewalk (8' min) with buffer (both sides near transit, parks, and schools)	traffic calming/sidewalk
		separated bike lanes or sidepath	separated bike lanes or sidepath	traffic calming/shared lane
Rural		sidepath	sidepath	traffic calming
				traffic calming/shared lane

WALK + BIKE NETWORK RECOMMENDATIONS

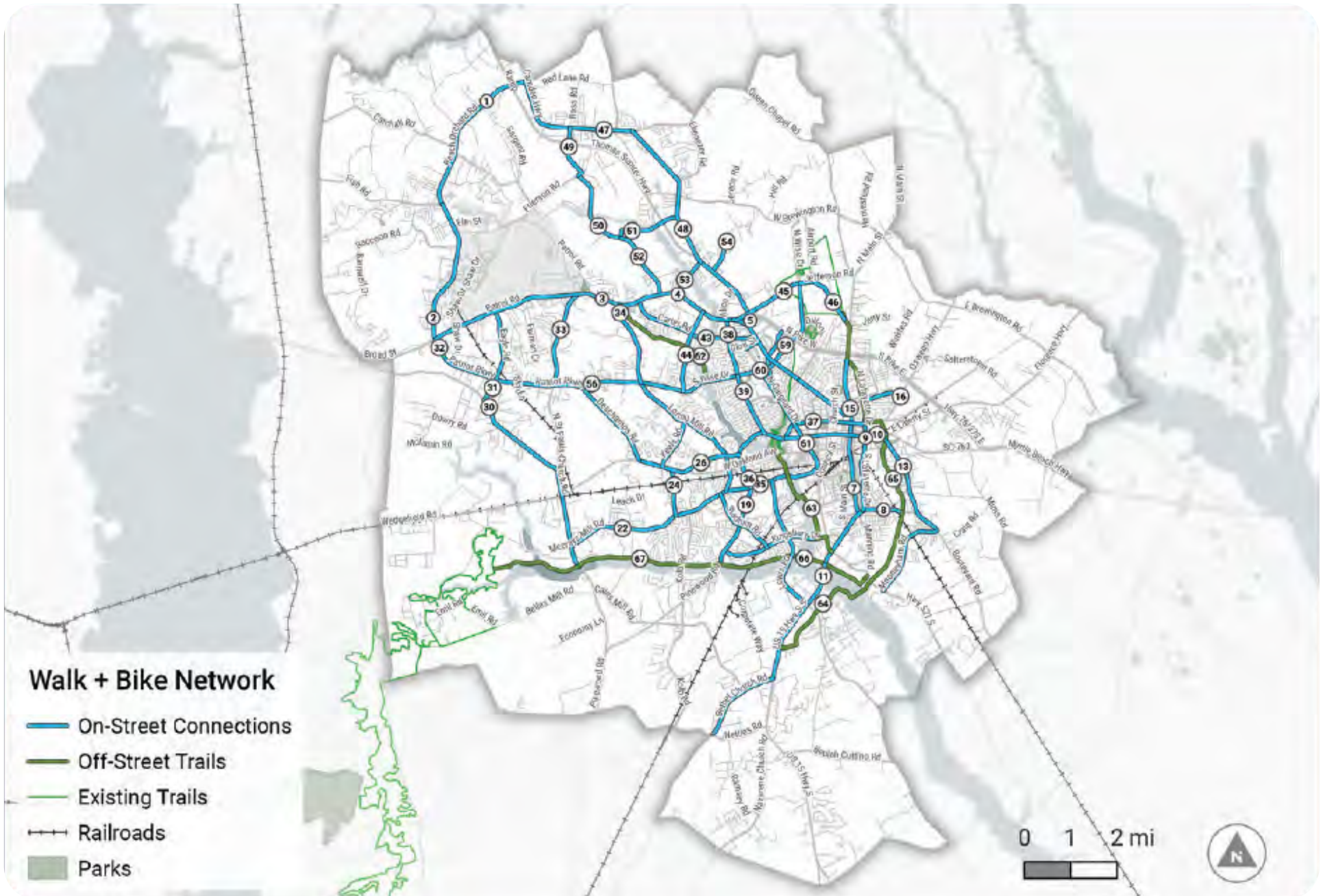
NETWORK RECOMMENDATIONS

The map on the facing page shows the proposed Walk + Bike Network. The lines on the map represent streets and trails where investment in safe, comfortable facilities for walking and biking will have the greatest positive impact.

This map does not specifically identify any one type of pedestrian or bicycle facility to be implemented. Instead, the network is categorized more generally into:

- Off-street trails: These lines represent existing and proposed greenways and shared use paths that provide shared space for walking and biking. Off-street trails typically follow natural corridors and easements along waterways, old rail lines, or utility rights-of-way.
- On-street connections: These lines represent roadway corridors that should provide safe, comfortable infrastructure for people walking and biking. The specific pedestrian and bicycle facilities for each corridor will vary based on the roadway functional class and surrounding land use context.

PROPOSED WALK + BIKE FACILITIES (FROM WALK+BIKE MASTER PLAN)



WALK + BIKE PROJECT SCORING METHODOLOGY

Goal	Definition	Scoring Weight	Max Points
Culture and Environment	Environmental Impacts: The environmental impacts score is based on an assessment of potential impacts to natural, social, and cultural resources. Environmental features are defined as wetlands, historic properties, and bodies of water.	10 - Project not expected to have any negative cultural/environmental impacts	10 pts
		5 - Project may have negative cultural/environmental impacts	
		1 - Project likely to have negative cultural/environmental impacts	
Economic Development	Economic Development: The Economic Development score is determined using a 10-factor methodology. The methodology assesses the economic development impact of transportation infrastructure projects.	10 - Score over 20	10 pts
		5 - Score between 10 and 20	
		1 - Score below 10	
Growth and Development	Consistency with Local Plans: Presence of project in local or regional walk+bike plan	10 - Included in local or regional plan as a priority project	20 pts
		5 - included in local or regional plan as a future project	
		1 - Not included in local or regional plan	
	Traffic Volume: The traffic volume is based on the 2022 Average Annual Daily Traffic (AADT) as collected by SCDOT. (For multi-segment projects, the highest volume segment will be used as basis for score).	1 - AADT below 500 or unknown	
		5 - AADT 500 - 10,000	
		10 - AADT over 10,000	

WALK + BIKE PROJECT SCORING METHODOLOGY

Goal	Definition	Scoring Weight	Max Points
Mobility and Accessibility	Transit Benefit: Degree to which project supports linkage with existing or proposed transit service	10 - Project links to existing transit service	20 pts
		5 - Project links to planned transit service	
		1 - Project provides no linkage to existing or planned transit service	
	Connectivity to Existing Infrastructure: Based on proximity to existing additional bicycle/pedestrian facilities.	10 - Project connects existing pedestrian and/or bike facilities	
		5 - Project extends existing pedestrian and/or bike facilities	
		1 - Project does not connect or extend existing pedestrian, or bike facilities	
Safety and Security	Safety: the safety score is a composite that includes crash rate per mile and the total number of crashes over a 5-year period.	10 - Safety score of 10	20 pts
		9 - Safety score of 9	
		8 - Safety score of 8	
		7 - Safety score of 7	
		6 - Safety score of 6	
		5 - Safety score of 5	
		4 - Safety score of 4	
		3 - Safety score of 3	
		2 - Safety score of 2	
		1 - Safety score of 1	
	Bike/Pedestrian specific crashes: based on crash history within last 5 years with one or more reported bicycle or pedestrian-involved incidents	10 - Project with more than 1 reported bike/pedestrian-involved crashes	
		5 - Projects with 1 reported bike/pedestrian-involved crashes	
		1 - Projects with no reported bike/pedestrian-involved crashes	
Network Preservation	Financial Viability: the financial viability score is based on estimated project cost in comparison to the 2024-2033 TIP window. (*Additional consideration will be given to projects supplemented with local project funding and/or other federal or state funding.)	10 - Estimated cost is equal to or less than 50% of the annual RMP budget	10 pts
		7 - Estimated cost is equal to or less than 100% of the annual RMP budget	
		5 - Estimated cost is equal to or less than 200% of the annual RMP budget	
		3 - Estimated cost is greater than 200% of the annual RMP budget but less than 5 times the annual RMP budget	
		1 - Estimated cost is greater than 5 times the annual RMP budget but less than 9 times the annual RMP budget	
		0 - Estimated cost is more than 9 times the annual RMP budget	

UNCONSTRAINED WALK+BIKE PROJECT RANKINGS (CORRIDOR)

Project Evaluation Matrix - Proposed Sidewalk Projects

Project ID	Route Name	Project Extents	Length (mi)	Cost Estimate (2050)	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Total Score	Overall Rank
SW-3	Miller Rd. Sidewalk (north side)	Broad St. to Oxford St.	0.48	\$438,236	10	14	15	20	14	10	83	2
SW-4	Miller Rd. Sidewalk (west side)	Broad St. to Andrena Dr.	0.49	\$454,118	10	11	15	20	12	10	78	3
SW-2	N. Guignard Dr. Sidewalk Widening	Community St. to W. Calhoun St.	0.41	\$381,515	5	9	15	15	18	10	72	6
SW-7	N. Wise Dr.	Broad St. to N. Pike West	0.51	\$471,222	10	10	15	15	12	10	72	7
SW-25	E. Wesmark Blvd. Sidewalk	Broad St. to S. Pike West	0.41	\$381,166	10	10	10	15	16	10	71	9
SW-5	N. Pike West Sidewalk	Porter St. to N. Main St.	0.45	\$418,340	10	14	10	20	5	10	69	11
SW-8	N. Wise Dr.	Broad St. to Bultman Dr.	0.15	\$136,654	10	10	15	15	5	10	65	14
SW-12	E. Fulton St. Sidewalk	Missouri St. to Silver St.	0.42	\$386,751	10	11	10	15	9	10	65	15
SW-24	Gion St. Sidewalk	Alice Dr. to Broad St.	0.62	\$573,843	10	10	6	20	9	10	65	16
SW-32	Carolina Ave. Sidewalk	Broad St. to S. Pike West	0.84	\$776,643	10	7	10	20	7	10	64	19
SW-36	Mitchell St. Sidewalk	N. Lafayette Dr. to N. Main St.	0.12	\$107,334	10	11	6	20	7	10	64	20
SW-6	N Pike West Sidewalk	Clara Louise Kellogg Dr. to N. Wise Dr.	0.37	\$342,421	10	10	10	20	3	10	63	21
SW-14	Boulevard Rd. Sidewalk	E. Red Bay Rd. to Fleming St.	0.78	\$715,733	10	11	10	15	7	10	63	22
SW-19	W. Calhoun St. Sidewalk	Winn St. to N Guignard Dr.	0.23	\$207,687	10	10	15	15	3	10	63	23
SW-20	Calhoun Dr. Sidewalk	W. Liberty St. to N Guignard Dr.	0.36	\$330,379	10	10	15	15	3	10	63	24
SW-26	Rast St. Sidewalk	E Wesmark Blvd to N Wise Dr	1.20	\$1,103,706	10	10	6	20	7	10	63	25
SW-30	Oswego Hwy. Sidewalk	E. Charlotte Ave. to E Calhoun St.	0.72	\$666,866	10	7	15	10	11	10	63	26
SW-22	Pine St. Sidewalk	Pear St. to N Main St.	0.49	\$446,962	10	7	6	15	14	10	62	28
SW-33	Poulas St. Sidewalk	S. Pike West to Carolina Ave.	0.34	\$317,813	10	7	10	20	5	10	62	29
SW-10	S. Harvin St. Sidewalk	E. Oakland Ave. to Watkins St.	0.20	\$181,508	10	7	10	15	9	10	61	30
SW-11	S. Sumter St. Sidewalk	CSX Railroad to W. Williams St.	0.43	\$394,604	10	7	10	15	9	10	61	31
SW-13	Boulevard Rd. Sidewalk	Center St. to E. Liberty St.	0.13	\$123,565	10	11	10	15	5	10	61	32
SW-15	S. Main St. Sidewalk	Maxwell Ave. to Pocalla Rd.	0.17	\$155,852	10	7	10	15	9	10	61	33
SW-9	Wise Dr. Sidewalk	Bultman Dr. to Theatre Dr.	0.46	\$424,798	10	7	15	15	3	10	60	34
SW-21	Stadium Rd. Sidewalk	Pinewood Rd. to Kingsbury Dr.	0.77	\$705,262	10	11	10	15	3	10	59	35
SW-31	Jackson St. Sidewalk	Miller Rd. to Woodlawn Ave.	0.55	\$505,952	10	7	6	20	5	10	58	38
SW-17	W. Bartlette St. Sidewalk	S Purdy St to S Guignard Dr	0.20	\$188,314	10	7	10	15	5	10	57	39
SW-16	Hoyt St. Sidewalk	Bailey St. to S. Main St.	0.33	\$300,884	10	7	6	15	7	10	55	44
SW-18	W. Hampton Ave. Sidewalk	Winn St. to N. Guignard Dr.	0.16	\$149,744	10	10	6	15	3	10	54	46
SW-23	Brown St. Sidewalk	Pear St. to Dubose St.	0.27	\$249,224	10	7	6	15	5	10	53	47
SW-34	Pear St. Sidewalk	N. Main St. to Woodlawn Ave.	0.60	\$550,631	10	7	6	15	5	10	53	48
SW-35	Woodlawn St. Sidewalk	Jackson St. to Broad St.	0.25	\$228,281	10	7	6	15	5	10	53	49

UNCONSTRAINED WALK+BIKE PROJECT RANKINGS (CORRIDOR)

Project Evaluation Matrix - Proposed Sidewalk Projects

Project ID	Route Name	Project Extents	Length (mi)	Cost Estimate (2050)	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Total Score	Overall Rank
SW-28	E. Charlotte Ave. Sidewalk	Oswego Hwy. to N Lafayette Dr.	0.84	\$778,563	10	7	10	10	5	10	52	50
SW-29	Loring Dr. Sidewalk	Oswego Hwy. to N Lafayette Dr.	0.60	\$554,820	10	7	10	10	5	10	52	51
SW-1	Winn St. Sidewalk	Maplewood Dr. to W. Calhoun St.	0.41	\$375,581	10	7	6	15	3	10	51	52
SW-27	McCray's Mill Rd. Sidewalk	Meadowcroft Dr. to Santa Fe Trail	0.68	\$627,423	10	7	15	6	3	10	51	53
SW-28	Gertrude Dr. Sidewalk	Rast St. to N Wise Dr.	0.28	\$257,950	10	10	6	11	3	10	50	54

Project Evaluation Matrix - Proposed Greenway and Sidepath Projects

Project ID	Route Name	Project Extents	Length (mi)	Cost Estimate (2050)	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Total Score	Overall Rank
G-3	Lafayette Dr. Greenway	Crosswell Drive Park to James St.	1.78	\$2,071,611	10	19	15	20	16	10	90	1
G-21	N. Lafayette Dr. Sidepath	Sumter Police Department to Crosswell Dr.	0.37	\$428,123	10	9	15	15	16	10	75	4
G-11	W. Liberty St. Cycle Track	S. Sumter St to Alice Dr.	1.89	\$9,163,561	10	12	15	20	11	5	73	5
G-17	Camden Hwy. Sidepath	Market St. to Mason Rd.	1.87	\$2,181,618	10	16	20	10	5	10	71	8
G-19	Pocalla Rd. Sidepath	Cockerill Rd. to Kingsbury Dr.	2.00	\$2,325,575	10	16	15	10	9	10	70	10
G-16	Terry Rd./Mason Rd. Sidepath	Carter Rd. to Camden Hwy.	1.77	\$2,058,164	10	16	15	10	7	10	68	12
G-15	Patriot Parkway Sidepath	Lisbon Dr. to Shaw AFB Main Gate	4.24	\$4,940,386	10	16	20	6	7	7	66	13
G-2	Turkey Creek Greenway	Crosswell Drive Park to Manhattan Ave.	3.85	\$18,689,953	5	17	15	15	9	3	64	17
G-18	Manning Road/US-521 Sidepath	Aull St. to Pocalla Rd.	3.23	\$3,763,600	10	19	15	6	7	7	64	18
G-4	E. Red Bay Rd. Cycle Track	Boulevard Rd. to S. Lafayette Dr.	1.15	\$5,567,396	10	17	10	15	3	7	62	27
G-7	Palmetto Park Connector	Sumter Tennis Center to Shot Pouch Greenway	1.02	\$4,963,902	5	10	11	20	5	7	58	36
G-1	Sumter to Mayesville Rail-Trail	Downtown Sumter to Downtown Mayesville	9.15	\$17,745,121	5	19	6	20	5	3	58	37
G-6	Wall St. Connector	S. Pike West to Shot Pouch Greenway	0.34	\$1,653,409	5	10	11	15	5	10	56	40
G-8	Second Mill Greenway	Oakwood Ave. to Loring Mill Rd.	1.21	\$5,886,136	5	13	15	11	7	5	56	41
G-13	Wedgefield Rd. Sidepath	Loring Mill Rd. to Deschamps Rd.	1.99	\$2,315,214	10	11	10	6	9	10	56	42
G-20	Old Manning Rd. Sidepath	Pocalla Rd. to Lakewood High School	1.01	\$1,179,652	10	11	15	6	3	10	55	43
G-10	Long Branch to Second Mill Greenway	Stamey Livestock Rd. to Wise Dr.	4.36	\$21,128,731	5	15	6	20	5	3	54	45
G-12	Keels Rd. Sidepath	Patriot Pkwy. to Wedgefield Rd.	1.12	\$1,305,752	10	7	10	6	3	10	46	55
G-14	Deschamps Rd. Sidepath	Patriot Pkwy. to Wedgefield Rd.	2.04	\$2,373,414	10	11	10	2	3	10	46	56
G-5	Green Swamp Greenway	Swan Lake-Iris Gardens to South HOPE Center	4.35	\$21,083,722	5	10	6	15	3	3	42	57
G-22	Rast Street Connector	Shot Pouch Greenway to Rast St.	0.05	\$56,436	5	10	6	6	3	10	40	58
G-9	Sumter Veterans Greenway	Veterans Park to Stamey Livestock Rd.	2.06	\$9,988,428	5	10	6	6	5	5	37	59

UNCONSTRAINED WALK+BIKE PROJECT RANKINGS (INTERSECTIONS)

Project Evaluation Matrix - Proposed Walk+Bike Intersection Projects

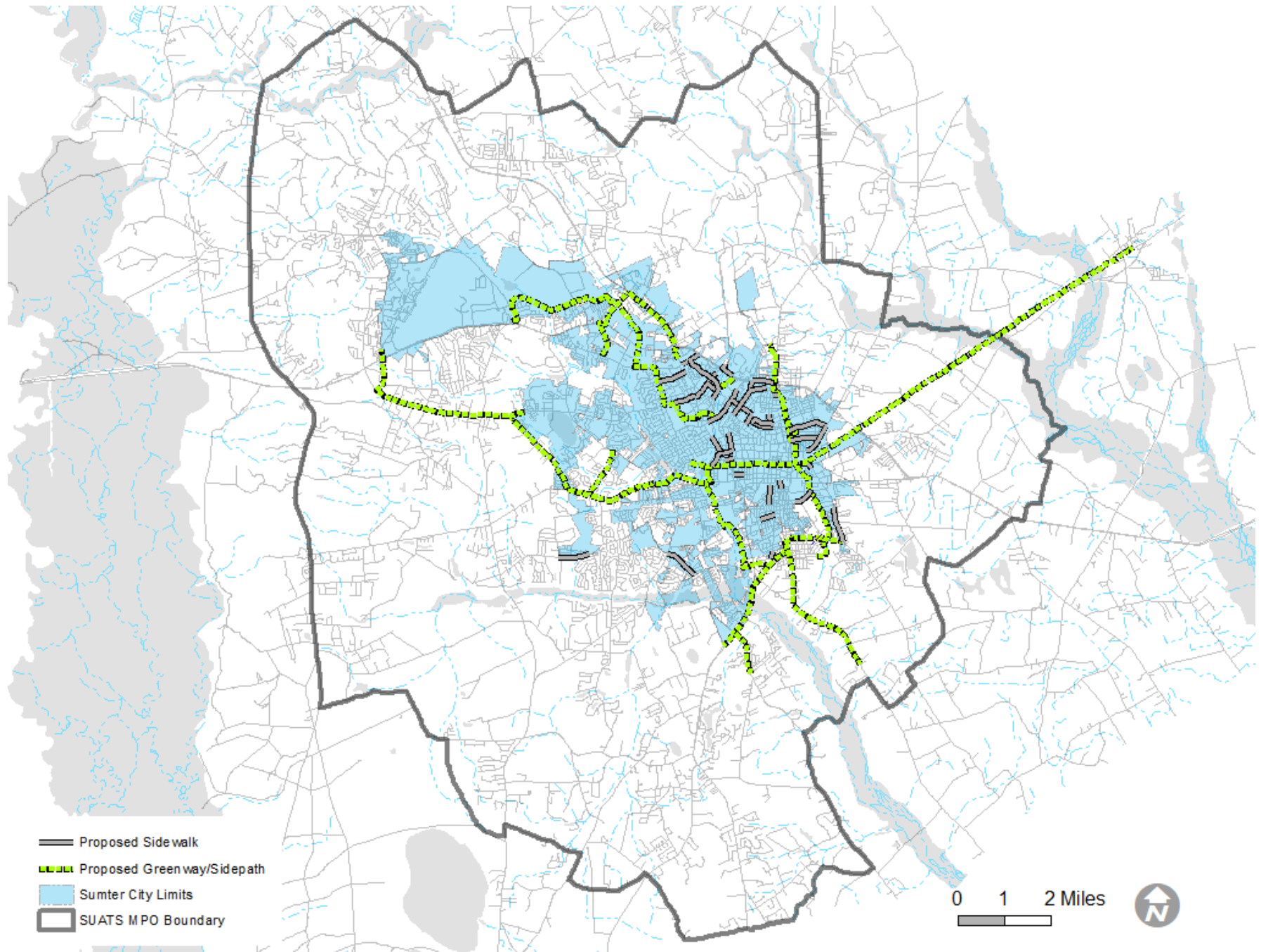
Project ID	Project Name	Cost Estimate (2050)	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
P-11	Alice Dr. at Broad St. - Intersection	\$291,000	10	21	20	20	18	10	99	1
P-24	CCTC Main Campus - S. Guignard Dr. Mid-block Crosswalk	\$194,000	10	21	15	20	18	10	94	2
P-10	McCray's Mill Rd. at S. Guignard Dr. - Intersection	\$291,000	10	21	20	15	14	10	90	3
p-1	Willow Drive Elementary School - Broad St. Mid-block Crosswalk	\$194,000	10	18	20	20	9	10	87	4
P-12	Loring Mill Rd. at S. Wise Dr. - Intersection	\$291,000	10	18	20	15	3	10	76	5
P-8	Downtown Library - N. Harvin St. Mid-block Crosswalk	\$97,000	10	16	10	20	9	10	75	6
P-14	Sumter Economic Development HQ - W. Liberty St. Mid-block Crosswalk	\$145,500	10	16	10	20	7	10	73	7
P-22	N. Wise Dr. - Mid-block Crosswalk at Shot Pouch Greenway	\$194,000	10	9	10	20	12	10	71	8
P-2	Alice Dr. Elementary School - Alice Dr. Crosswalk	\$194,000	10	11	15	15	9	10	70	9
P-15	Liberty Center - W. Liberty St. Mid-block Crosswalk	\$145,500	10	13	10	20	7	10	70	10
P-21	N. Washington St. - Mid-block Crosswalk	\$194,000	10	13	10	20	7	10	70	11
P-20	JMBC Church - Manning Ave. Mid-block Crosswalk	\$145,500	10	12	15	15	7	10	69	12
P-17	Patriot Park - Patriot Pkwy. Crosswalk	\$194,000	10	15	15	15	3	10	68	13
P-19	Morris College - N. Main St. Crosswalk	\$194,000	10	9	10	20	9	10	68	14
P-23	Clyburn Intermodal Transit Center - S. Harvin St. Crosswalk	\$97,000	10	9	10	20	9	10	68	15
P-18	North HOPE Center - Crosswalk	\$145,500	10	12	10	20	5	10	67	16
P-26	Sumter High School - McCray's Mill Rd. Crosswalk	\$194,000	10	14	15	15	3	10	67	17
P-13	Shot Pouch Greenway at Miller Rd. Mid-block Crosswalk	\$145,500	10	9	10	20	5	10	64	18
P-4	Wilder Elementary School - Crosswalk	\$97,000	10	9	10	15	9	10	63	19
P-7	Memorial Park - W. Calhoun St. Mid-block Crosswalk	\$97,000	10	12	10	15	5	10	62	20
P-6	Kingsbury Elementary School - Lewis Rd. Crosswalk	\$97,000	10	9	10	10	12	10	61	21
p-25	Alice Drive Middle/USC-Sumter - University Dr. Mid-block Crosswalk	\$194,000	10	12	6	20	3	10	61	22
P-5	Bates Middle School - Palmetto St. Crosswalk	\$97,000	10	9	10	15	5	10	59	23
P-9	Crosswell Drive Elementary - Crosswell Dr. Crosswalk	\$97,000	10	9	10	15	5	10	59	24
P-28	Cypress Trail @ N. Wise Dr. - Mid-block Crosswalk	\$97,000	10	15	10	10	3	10	58	25
P-29	Cypress Trail @ Jefferson Rd. - Mid-block Crosswalk	\$97,000	10	15	10	10	3	10	58	26
P-3	Wilson Hall School - Wilson Hall Rd. Mid-block Crosswalk	\$145,500	10	9	10	15	3	10	57	27
P-16	Wilson Hall Rd. - Crosswalk	\$97,000	10	9	10	15	3	10	57	28

UNCONSTRAINED WALK+BIKE PROJECT RANKINGS (INTERSECTIONS)

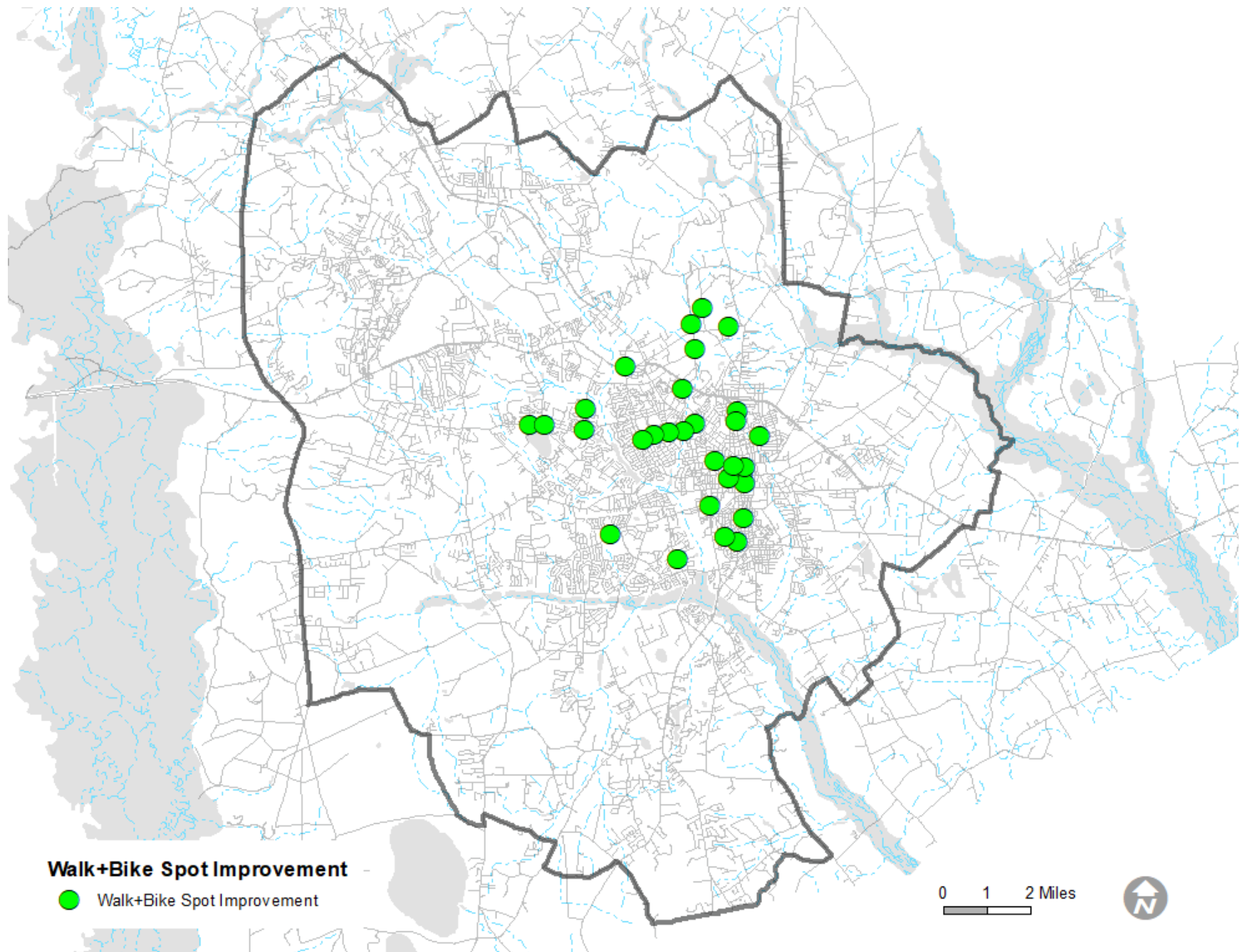
Project Evaluation Matrix - Proposed Walk+Bike Intersection Projects

Project ID	Project Name	Cost Estimate (2050)	Environ. Score	Econ. Score	Growth Score	Mobility Score	Safety Score	Network Score	Weighted Score	Overall Rank
P-30	Cypress Trail @ N. Wise Dr. - Mid-block Crosswalk	\$97,000	10	15	6	10	5	10	56	29
P-27	Lincoln Center - Council St. Mid-block Crosswalk	\$194,000	10	9	6	15	5	10	55	30
P-31	Cypress Trail @ Airport Dr. - Mid-block Crosswalk	\$97,000	10	15	6	10	3	10	54	31

IDENTIFIED WALK+BIKE CORRIDOR IMPROVEMENTS (UNCONSTRAINED)



IDENTIFIED WALK+BIKE INTERSECTION IMPROVEMENTS (UNCONSTRAINED)



SUMTER'S “GRAND LOOP” GREENWAY

A key walk + bike recommendation contained in several previous iterations of the SUATS Long Range Transportation Plan has been to establish a greenway loop around the core of Sumter utilizing existing undeveloped space, easements, and floodplain areas along Shot Pouch Creek, Green Swamp, and Turkey Creek. This continuous loop would provide shared use paths connecting Sumter.

In 2014, Sumter voters allocated \$4.0 million to construct the Shot Pouch Greenway between Dillon Park and Swan Lake-Iris Gardens via referendum to make a major phase of this vision a reality. The project was completed in January of 2023, making Shot Pouch Greenway effectively the northwest quadrant of an eventual 13 mile greenway loop.

A Feasibility Study was commissioned and completed by SUATS for a future Turkey Creek Greenway that would serve as the Southeastern quadrant of the Loop.



Shot Pouch Greenway Boardwalk at Swan Lake

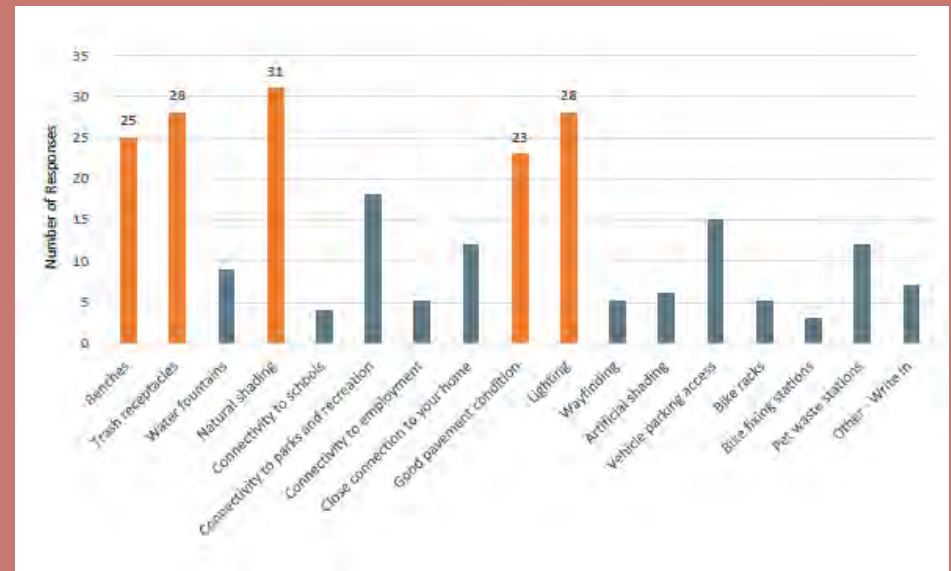
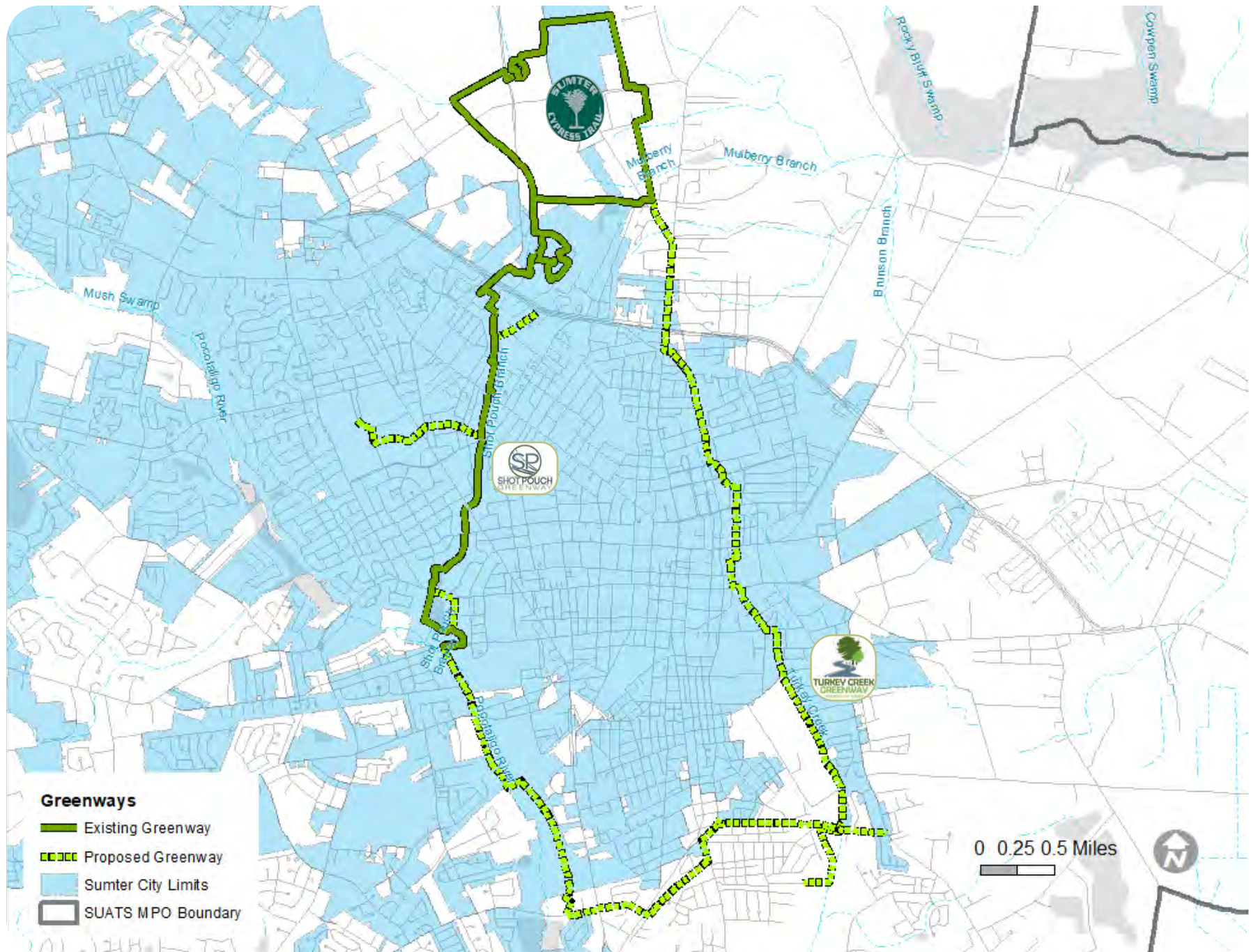


Figure 8.3 - Top Priorities for Sumter Area Greenways (from Turkey Creek Greenway Feasibility Study)

SUMTER'S "GRAND LOOP" GREENWAY



MICROMOBILITY (BIKESHARE & SCOOTERSHARE)

WHAT IS MICROMOBILITY?

Micromobility is a transportation option that allows users to access a network of bicycles or scooters that can be checked out and returned on-demand. Riders pay for use of the bikes or scooters on a per-trip basis or with a monthly or annual membership, often at accessible prices that are comparable to or lower than other public transit. Common trip types include connecting to transit, commuting, social/entertainment trips, and exercise/recreation.

Since 2017, entrants to the market have introduced new and popular fleet types into the industry – such as dockless electric bikes (“e-bikes”) and electric scooters (“e-scooters”) – as well as new business models that have lowered the barrier to entry for many cities to have their own shared micromobility system.

Companies such as Bird, Lime, Spin, and others can set up shared e-bike or e-scooter systems quickly and at much less cost to the municipality, which has seen them proliferate in areas of all sizes across the country. However, it is up to municipalities to establish rules and policies to effectively manage

these companies and the public right-of-way to reduce potential negative externalities, such as inappropriately parked vehicles.

WHAT MICROMOBILITY OPTIONS ARE AVAILABLE TO SUMTER?

During the community outreach phase of the Sumter Walk+Bike Master Plan, survey respondents had a clear preference for docked bikeshare (61% liked or strongly liked) while interest in dockless bikes or scooters was more mixed and about the same between them. However, the higher costs of buying docked bikeshare equipment – while still having to make it an affordable mobility option – means that docked bikeshare systems are generally not profitable and require public subsidy or alternative revenue streams (e.g., advertising and sponsorships) to cover costs. This is similar to other forms of public transit. Docked bikeshare systems have tended to be most feasible in large cities with more resources and larger advertising and sponsorship markets, or in limited rollouts in small communities often focused around connecting a few key destinations or points along a greenway/trail or campus area.

Although the upfront cost and effort to establish these programs is much

What is Shared Micromobility?

Shared Micromobility encompasses all shared-use fleets of small, fully or partially human-powered vehicles such as bikes, e-bikes, and e-scooters.



Station-based bike share
(including e-bikes)



Dockless bike share
(including e-bikes)



Scooter share

Source: NACTO



Blue Bike SC Docked Bikeshare System in Columbia, SC (Source: Blue Bike SC)

MICROMOBILITY (BIKESHARE & SCOOTERSHARE)



Bird Dockless Electric Scooters (Source: Thomas Cizauskas)

lower for cities under these models, they should be aware of and have the capacity to manage the relationship with the private companies providing service, ensure that the program is operated in compliance with the terms of the permit or contract, and be ready to respond to public comments and feedback on the program.

WHAT'S FEASIBLE?

Based on the moderate potential for ridership in Sumter and the available options based on the state of the micromobility industry at the time of writing, two options for micromobility systems are possible in the Sumter area:

1. A small (up to 30 bike and 5 station) locally owned and operated docked bikeshare system focused on the trail system and primarily recreational riders, or
2. A larger (starting with a 100-device fleet) privately-owned dockless e-scooter or e-bike system.

Option 1 offers docked bikes or e-bikes, which are the community's preferred vehicle type and provide the most organized parking option. However, it

would be a smaller system with less coverage and likely require greater public involvement in the management and oversight of the program and a higher capital outlay and fundraising effort to subsidize operations.

Option 2 offers more coverage to the community and almost all of the financial risk borne by the private operator. However, it relies on a private operator being interested in providing service in the Sumter market and what mix of vehicle types they feel is needed to make the system sustainable. These systems are typically dockless and will require some management and oversight to ensure that they are operated effectively and address parking and other operational service issues.

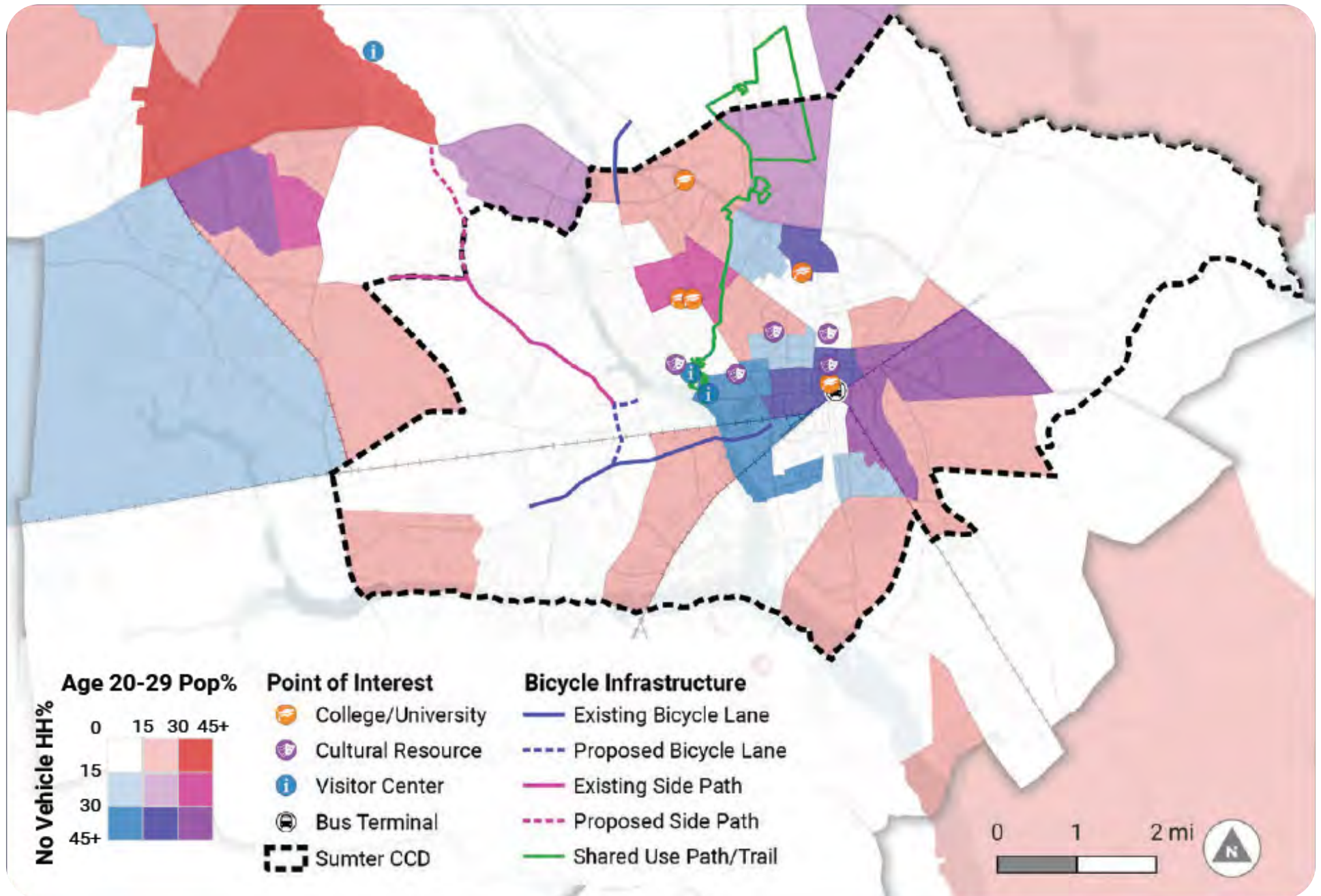
To move forward with micromobility in Sumter, a local stakeholder should reach out to potential operators under Option 2 to understand the full range of options available to Sumter in this fully private model. Consider whether the fleet types, size, fares, service areas, and other characteristics proposed by different vendors meets Sumter's transportation and mobility needs. If not, then Option 1 is the remaining option for Sumter and effort should be directed to find fundraising partners and a bikeshare system vendor.

While the two options are not necessarily mutually exclusive, pursuing either option will make the other less feasible due to competition in the limited Sumter market.

MICROMOBILITY SYSTEM OPTIONS FOR SUMTER AREA BY FEASIBILITY CRITERIA

	Option 1 - Docked Bikeshare System	Option 2 - Dockless E-Scooter or E-Bike System Pilot
Possible Ridership	4,380 to 8,800 trips annually (Based on 0.4 to 0.8 trips/bike/day)	22,000 to 36,500 trips annually (Based on 0.6 to 1.0 trips/vehicle/day)
Size and Coverage	<ul style="list-style-type: none"> Up to 5 stations and 30 pedal bikes or e-bikes Possible locations could include 2 downtown stations and 3 stations along the Shot Pouch Greenway (e.g., at Swan Lake, YMCA, Dillon Park) = ~1.75 square miles of system coverage 	<ul style="list-style-type: none"> Pilot 100 e-bikes and/or e-scooters with performance measures to increase the fleet over time City of Sumter boundary = 32.8 square miles of system coverage
Operating Model	<ul style="list-style-type: none"> City, County, another public agency, or non-profit owns and manages the program Operations provided by system owner or contracted to a third-party operator 	<ul style="list-style-type: none"> Service provided by one private sector vendor City or County provides regulation and oversight of the program
Cost	<ul style="list-style-type: none"> Capital: approximately \$320,000 Operations: approximately \$90,000 annually 	<ul style="list-style-type: none"> Private sector bears cost of capital and operations Local government staff costs include staff time and resources to oversee the program
Funding Options	<ul style="list-style-type: none"> Capital: state and federal grants with local match and/or private sector contributions Operations: ridership revenue, sponsorship/advertising, and/or public subsidy 	<ul style="list-style-type: none"> Some public funding is required to cover local government staffing costs Revenues generated by the City charging fees for operations in the right-of-way are available
Effort for Local Entity	<ul style="list-style-type: none"> Could range from staff time for oversight and management to significant resources and full responsibility for the program 	<ul style="list-style-type: none"> Staff time to establish, oversee, and evaluate the pilot program

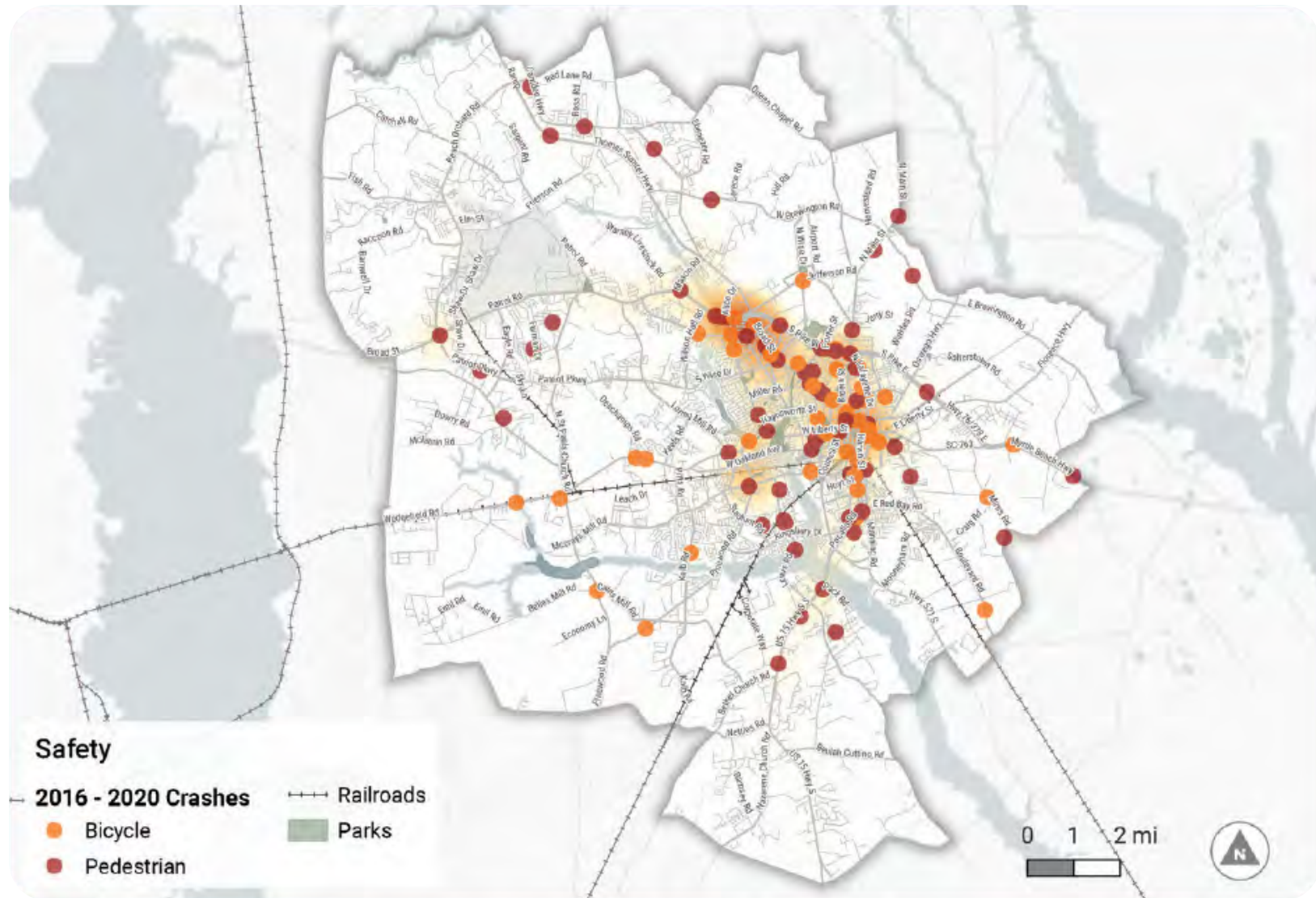
BIKE SHARE FEASIBILITY MAP



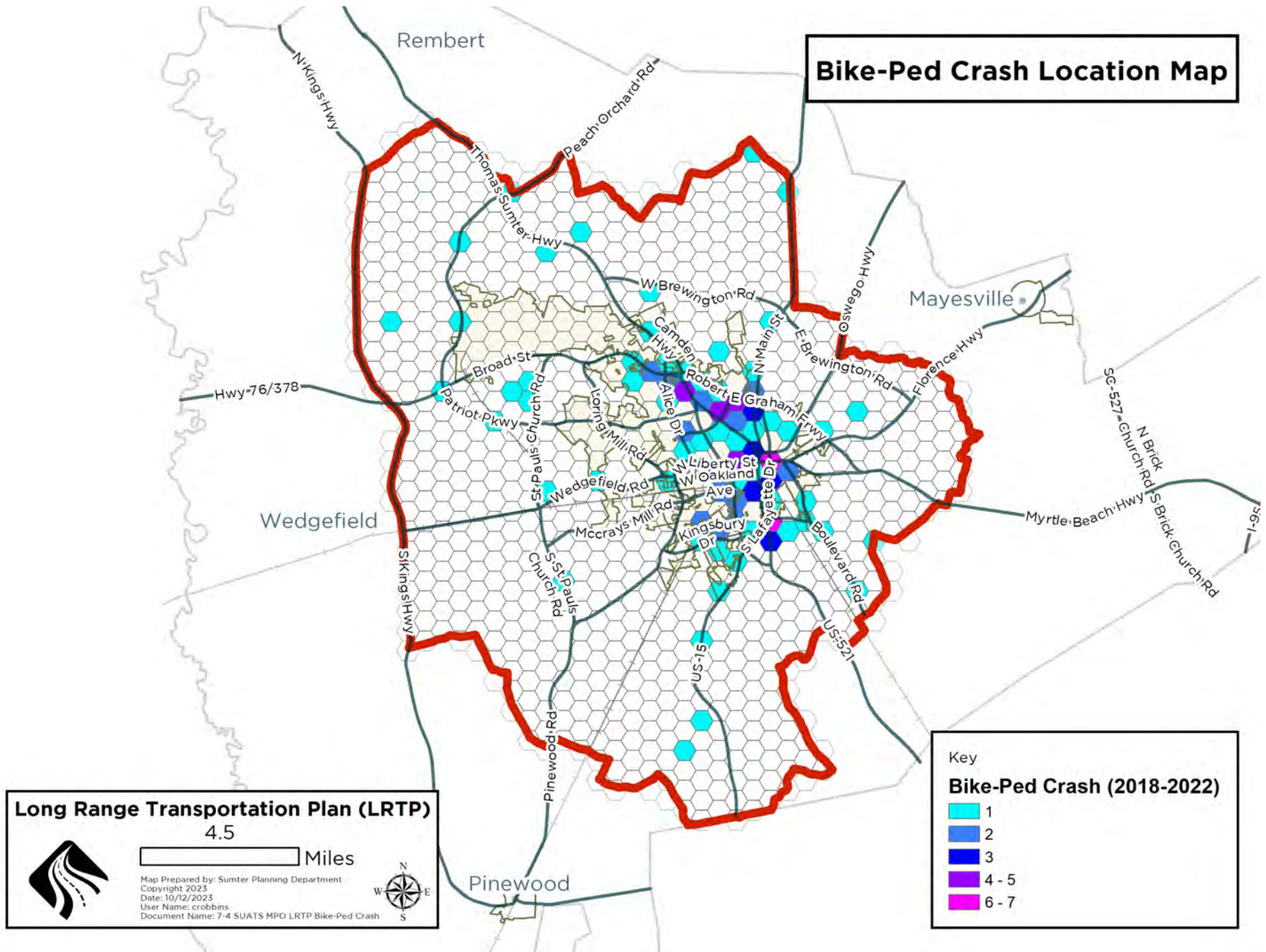
WALK + BIKE CRASHES

CRASH ANALYSIS

Bicycle and pedestrian crashes represent 13.8% of serious crashes but 1% of total crashes. Pedestrian, bicycle, and vehicle crash data was reviewed from 2016 to 2020. There were 11,191 crashes during that time-frame, 116 of which involved bicycles or pedestrians. These crashes make up a small portion of the overall crashes but make up a disproportionate amount of serious injury and fatal crashes, with 33 out of 238 crashes that resulted in a fatality or incapacitating injury involving bicycles or pedestrians.



WALK + BIKE CRASH MAP



BARRIERS TO BIKING AND WALKING

BARRIERS RELATED TO RAIL

Four railroad lines cross the study area and create divides between downtown, parks, neighborhoods, and employment centers. Three are owned by the CSX and one by the US Air Force. Railroads present a major barrier to establishing a comfortable multimodal network as railroads pose unique challenges for bicyclists and people who use other wheeled devices. While none of the existing bicycle facilities currently cross a railroad, an envisioned Turkey Creek Greenway alignment crosses the railroad twice and the proposed bicycle network laid out in the LRTP would include a significant number of rail crossings.

BARRIERS RELATED TO HIGH SPEED ROADS

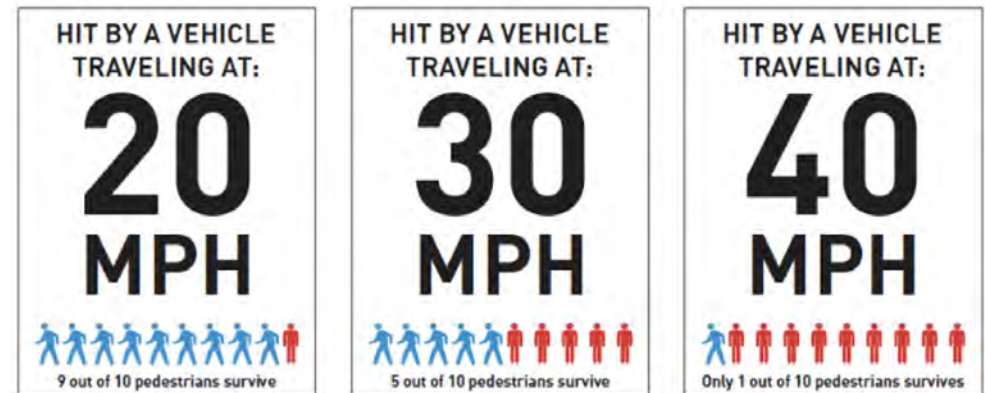
The ability of pedestrians and bicyclists to travel between their origin and destination can be constrained by high-speed roads (over 35 mph) just as

much as by rail lines. Crossing these roads or riding along them is a highly hazardous prospect as increased speed also increases the chance that a crash will result in a fatal or serious injury crash. The National Highway Traffic Safety Administration (NHTSA) states that a crash involving a vehicle going 30mph has a 50% likelihood of resulting in a serious or fatal injury for a pedestrian, with that likelihood increasing dramatically as the speed increases.

Pedestrians and bicyclists are intuitively aware of this speed concern and are unlikely to walk or bike somewhere if they need to cross/use a high-speed road, so these roads serve as barriers to active transportation.

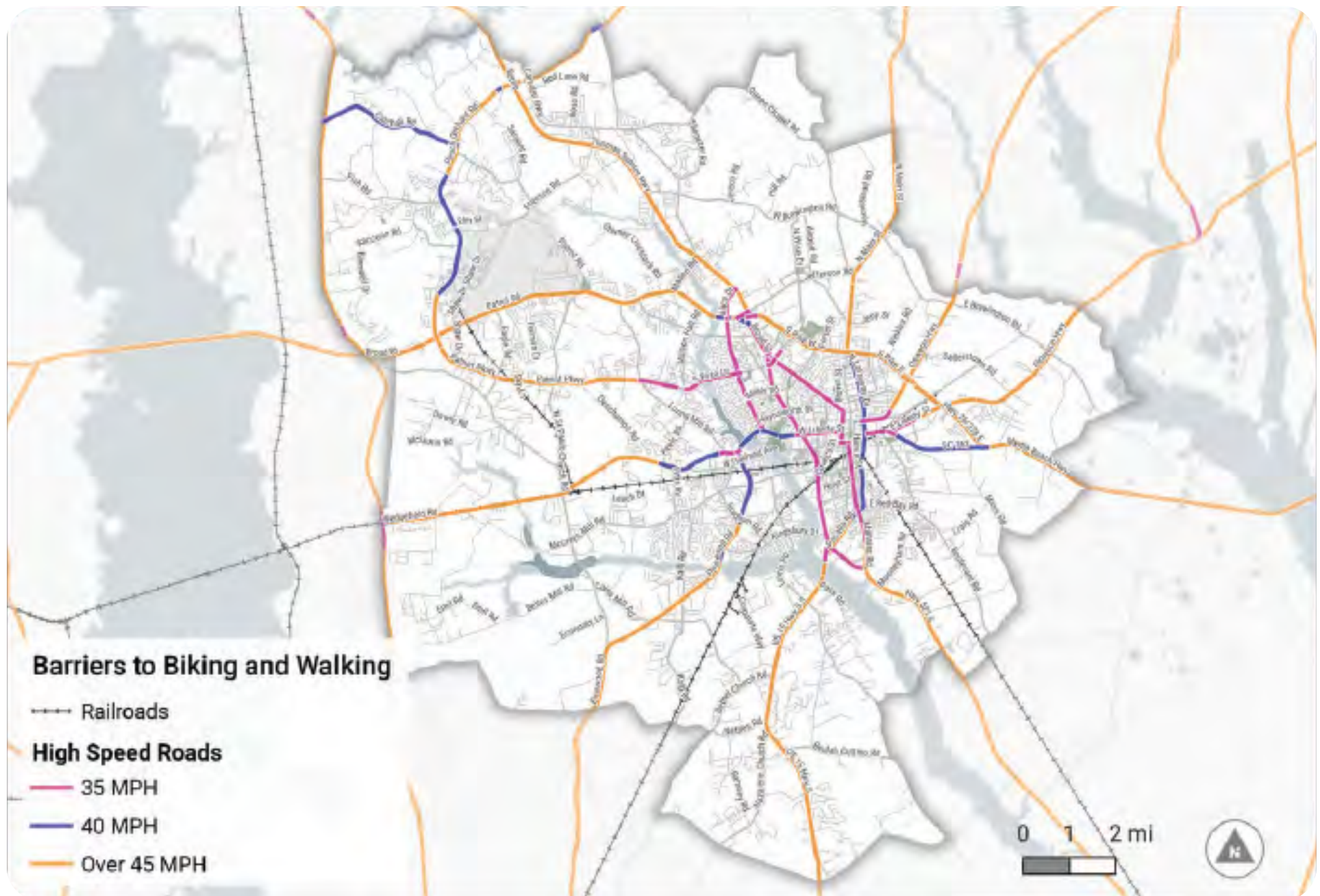


Rail Crossing at East Red Bay Rd.



In 2017—the year in which pedestrian and cyclist fatalities first reached the highest level since 1990—the [NTSB issued a landmark study](#) about how speed is the #1 culprit in traffic fatalities, finding that scores of crashes would not have been fatal at lower speeds.

BARRIERS TO BIKING AND WALKING





CHAPTER 9

PUBLIC TRANSIT



CHAPTER 9

WHY TRANSIT?

CURRENT TRANSIT FACILITIES AND STATUS

CURRENT TRANSIT ROUTES

TRANSIT PROPENSITY INDEX

ANALYZING POTENTIAL TRANSIT NEED

ESTIMATING POTENTIAL RIDERSHIP

PROPOSED FIXED ROUTE SERVICE COSTS

PROPOSED NEW AND UPDATED SUMTER FIXED ROUTES

WHY TRANSIT?

Mobility, or the ability of a person to move from one location to another, is a fundamental part of daily life. It plays a critical role in shaping a region's physical and social infrastructure. Mobility infrastructure does more than simply allow people to move from place to place, it is a building block for the places in which we live, and it affects our way of life. Reliable access to effective and safe transportation goes a long way toward improving economic equity, environmental footprint, and overall quality of life.

Why Transit?

Available public transportation is vital to the success and well-being of a community. Many residents rely on public transportation to access work, school, healthcare, the grocery store, and social assistance provider offices.

Riders provide the basis for any public transportation system. There will never be a world without people in need of public transportation. Riders can be separated into two common types.

The first is what are known as **Captive Riders**. These individuals use public transportation not by choice, but because there is a limiting factor to their mobility, such as: age, disability, or economic condition that prevents them from owning a personal vehicle. These are the most common users of public transportation options and make up a large population that needs attention when addressing public transportation planning.

The other common type of public transportation user is what is typically known as a **Choice Rider**. These people make a conscious decision to use public transportation for a variety of reasons including convenience, cost saving, and/or environmental consciousness.

Conventional rider classifications suggest that to improve public transportation, more choice riders must be attracted. However, choice riders make up a small portion of public transportation users, especially in areas like SUATS. They also tend to demand a higher degree of reliability and convenience as a prerequisite to making the move to public transportation, such as more frequent service and more infrastructure at transit stops. This

means that allocation of resources and funds to attract these riders can ultimately detract from the core user base of a public transportation system.

Public transportation requires balancing service provision to the most people possible, broad geographic reach, and system sustainability. To balance these factors, decisions (and sometimes sacrifices) must be made. In order to maintain profitability and maximize ridership, public transportation systems may exclude more rural, lower density areas.

Serving a few people may not be cost effective compared to serving more populated areas where captive and choice riders reside in greater numbers. The balance that must be found for the region is how to provide service to a large area with widespread geographic distribution of at-risk individuals, while maintaining a system that is reliable and user-friendly to all who want to use it.

The methodology for future transit route recommendations and projected capital and operating costs in this LRTP are drawn from the Santee-Lynches Region Transit Needs Assessment + Framework. The analysis in that document has been updated to reflect impacts of inflation.

The recommendations identify opportunities to re-align and increase frequency for existing fixed routes and establish new fixed routes for the Sumter urbanized area. Additionally, intermittent fixed routes to provide access to the SUATS area for residents in Mayesville and Pinewood are included.

The methodology for future transit route recommendations in this LRTP is drawn from the Santee-Lynches Transit Needs Assessment + Framework (2018)

Available Public Transportation is vital to the success and well-being of a community.

CURRENT TRANSIT FACILITIES AND STATUS

In 1973, the South Carolina General Assembly established Regional Transportation Authorities as an avenue to improve public transportation. In 1976, the Santee-Wateree Regional Transportation Authority (SWRTA) was created for Clarendon, Kershaw, Lee and Sumter Counties with operations officially beginning in July of 1978 under a pilot project designed to have SWRTA perform as the sole transportation provider for all human service transportation.

SWRTA services began with fixed route, commuter, subscription and demand-response. Initially, SWRTA served 33% of the region's human service transportation needs; by 1981, SWRTA provided 75% of these trips. During this same period, 5 human service agencies and 7 taxi companies provided additional transportation within the region. By 1987, SWRTA provided 71% of human service trips; with human service agencies doubling from 5 to 10 and taxi companies increasing from 7 to 10. By 1997, Human service agencies had decreased from 10 to 8 and taxi companies remained consistent.

Between 1997 and 2007, SWRTA's service model relied in part on contract services, primarily through Medicaid, to transport riders. After 2007, Medicaid service revenues fell from nearly \$1.5 million to zero, severely curtailing the entire agency's ability to provide transit services.

Current Transit Service Provided in SUATS MPO

Within the SUATS MPO, SWRTA currently provides Fixed Route service, Commuter service, ADA Paratransit Services, and Contractual Services for Sumter Senior Services.

FIXED-ROUTE BUS

Buses make regular stops and operate alongside daily personal vehicle traffic. General route types of bus transportation include: standard, circulator, and express.

Transit buses, used on public transport bus services, have utilitarian fittings designed for efficient movement of large numbers of people, and often have multiple doors. Coaches are used for longer-



distance routes. Larger buses typically operate to a predetermined published timetable defining the route and the timing, but smaller vehicles may be used on some routes to provide flexible demand response services.

PARATRANSIT

Paratransit is the term used for special transportation services for people with disabilities as a supplement to fixed-route bus. At the simplest these services consist of a small bus that runs along a more or less defined route and stops to pick up or discharge passengers on request. At the other end of the spectrum—fully demand responsive transport—the most flexible paratransit systems offer on-demand call-up door-to-door service from any origin to any destination in a service area.



Typically, minibuses are used to provide paratransit service. Paratransit vehicles are equipped with wheelchair lifts or ramps to facilitate access.

VANPOOL

Vanpools allow groups of people to share the ride similar to a carpool, but on a larger scale with concurrent savings in fuel and vehicle operating costs. Vanpools have a lower operating and capital cost than most transit vehicles, but due to their relatively low capacity, vanpools often require subsidies comparable to conventional bus service. Vehicles are provided through a program operated by SWRTA. The key concept is that people share the ride from home or one or more common meeting locations and travel together to a common destination or work center.



CURRENT TRANSIT FACILITIES AND STATUS

RIDERSHIP

SWRTA's fixed route ridership within the SUATS MPO was 3,452 passenger trips, as of the agency's September 2023 reporting data. The agency's paratransit ridership for service within the same period in the SUATS MPO was 1,325 passenger trips per month.

It is important to note that these figures do not reflect unique individual users of the transit system, but rather each time a user takes a trip on a SWRTA-operated transit vehicle.

- An individual using SWRTA transit as a means of commuting to work full-time might register as many as 40 monthly passenger trips.
- A student taking classes may register 20-40 monthly passenger trips subject to their class schedule.
- An individual needing to access regular medical appointments might register 2-20 monthly passenger trips.

FLEET

As of October 2023, SWRTA's agency-wide fleet consisted of 38 vehicles for fixed route and paratransit services

BUDGET

SWRTA's annual agency-wide budget (FY2023-2024) for the 5 counties in which it provides services (including Sumter) included:

- \$ 2,024,558 for Operational Expenses
- \$ 592,415 for Maintenance Expenses
- \$ 949,809 for Administrative Expenses
- \$ 162,500 for Other Expenses (primarily Capital)

The revenue components of this budget includes:

- \$ 1,180,736 in federal and state operating grants
- \$ 995,260 in capital grants
- \$ 60,000 in anticipated passenger fares
- \$ 930,632 in local contract-provided services
- \$ 381,978 in local funding assistance

Fares

City Fixed Rates:

- \$1.00 - Fare for riders age 7+
- \$0.50 - Reduced rate for riders 65+, riders with disability, enrolled in Medicare, and/or Veterans
- Free - Morris College and CCTC students. (USC students are free with a valid bus pass for the current semester.)

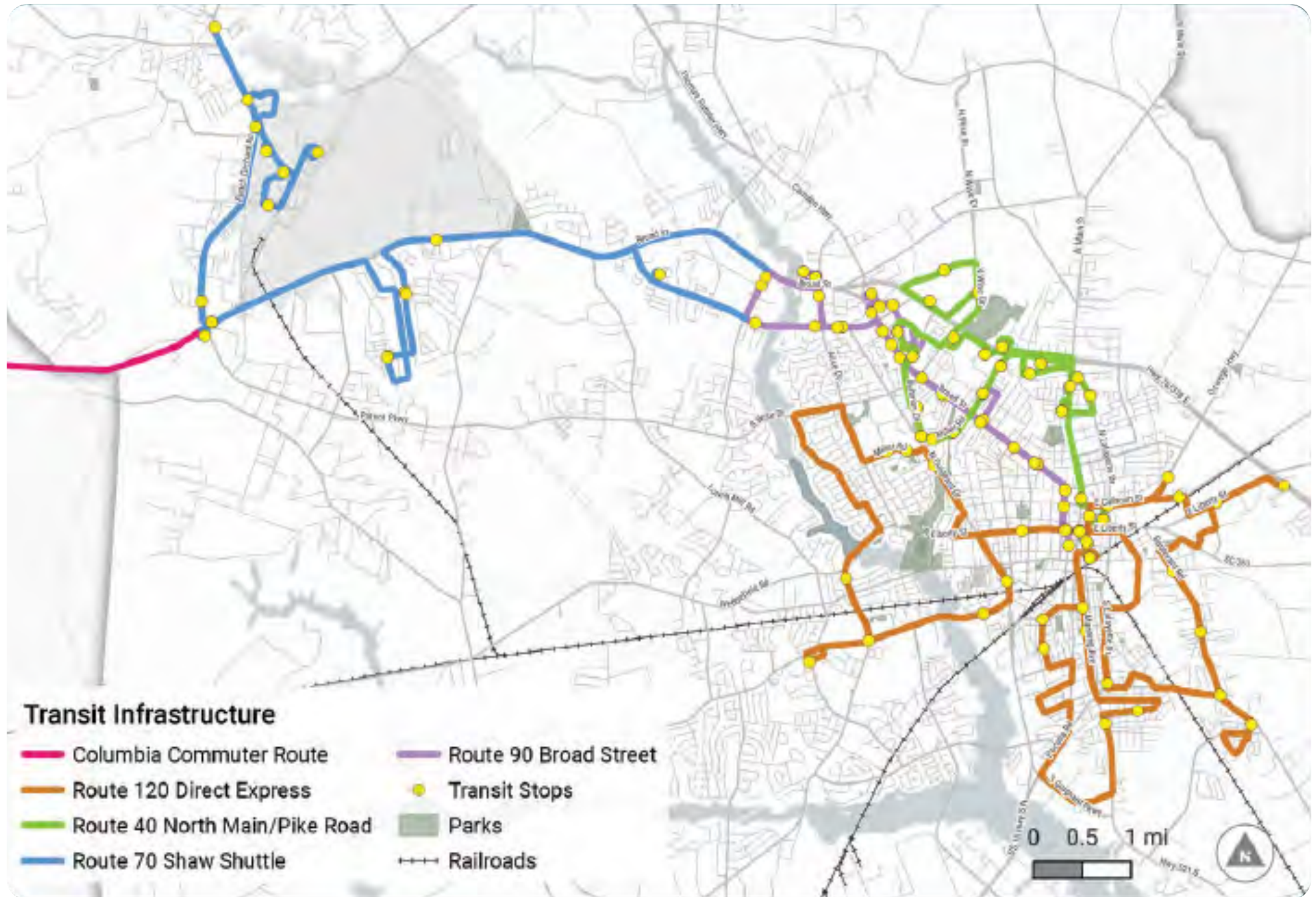
SmartRide Fixed Rates:

- \$2.50 - Sumter to Columbia
- \$1.00 - Sumter to Camden
- \$2.00 - Camden to Columbia

Paratransit /ADA Rates:

- \$2.00 - ADA passengers living within 0.75 mi of a Fixed Route each way.

CURRENT TRANSIT ROUTES



TRANSIT PROPENSITY INDEX

Transit providers have long considered the demographic makeup of an area when determining locations that should have transit service. A Transit Propensity Index (TPI) identifies locations where demographics indicate higher likelihood of transit use as compared to other areas.

There are 8 demographic categories for which data is available at the Census Block Group level that can be used effectively to measure transit propensity.

Because many independent variables influence each demographic cohort in terms of that group's tendency to utilize public transportation, each

factor carries the same weight in the index.

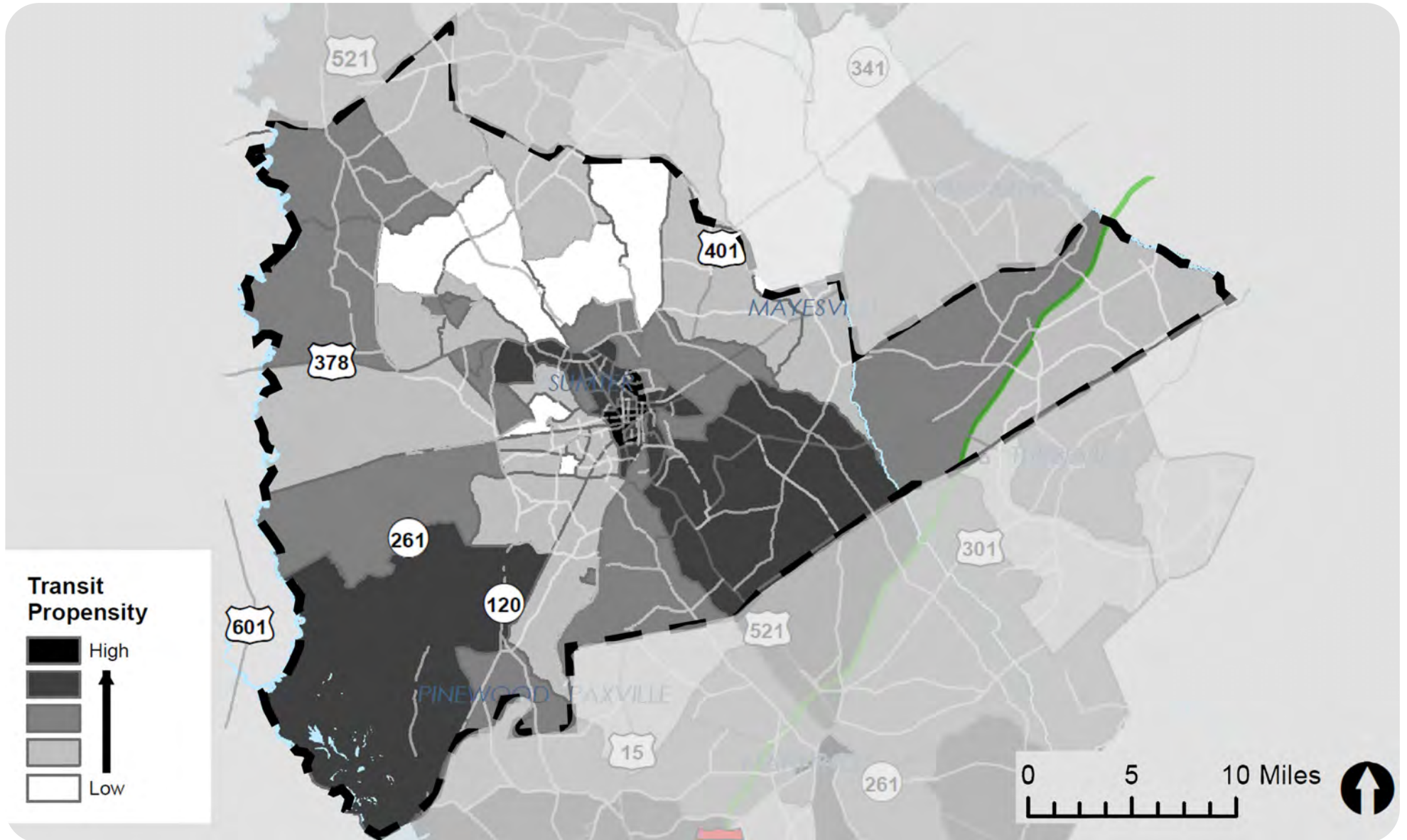
These factors were identified as most likely to influence an individual's need or desire to utilize public transportation. A range for each factor was developed, and a scoring matrix created based on the resulting figures. This score is then aggregated out of 100 potential points.

The index supports several common assumptions regarding mobility needs and tendencies while also highlighting several places where transit propensity is high in spite of smaller and less dense populations.

FACTORS USED IN THE TRANSIT PROPENSITY INDEX (TPI):

- **Households with no vehicle** - a significant factor for transit need, for obvious reasons.
- **Disability Status** - combines 6 types of disability measured by the Census (hearing, vision, cognitive, ambulatory, self-care, or independent living difficulty) which can prevent individuals from driving.
- **Persons over age 65** - more likely to either choose not to drive or be forced not to drive based on age-induced health considerations.
- **Minority Population** - more likely to depend on public transportation due to challenges obtaining driving licenses or due to relative income disparities.
- **Individuals Age 18 to 24** - Based on a national trend since 1983, young adults are showing less desire in obtaining a driving license, making them more likely to use public transportation as a mobility option.
- **Low to Moderate Income** - Purchasing and maintaining a personal vehicle is difficult for individuals below the median income for a given area.
- **Employment in same county as residence** - Individuals who live and work in the same area tend to be more likely to utilize transit offerings in that community.
- **Population Density** - influences transit propensity, as individuals who choose to live in more urbanized and metropolitan areas also tend to be more interested in transit as a preferred mobility option.

TRANSIT PROPENSITY INDEX



ANALYZING POTENTIAL TRANSIT NEED

STEP 1: MAP TRANSIT PROPENSITY DATA BY CENSUS BLOCK GROUP



Transit Propensity offers a good understanding of general areas of transit need based on Census Block Groups, particularly when viewed at a region or county scale. Using the map above of TPI Block Groups, it is clear there is a significant propensity for transit particularly in the North Main Street Corridor and the West End Neighborhood. However, because the TPI relies on Block Group level geography, it does not specifically show where people actually live within the identified block groups. This level of understanding is needed to efficiently place transit routes and estimate how many individuals are likely to utilize the service.

STEP 2: ANALYZE TRANSIT PROPENSITY BLOCK GROUPS USING BUILDING FOOTPRINTS



The next step in determining areas of need is to more accurately identify where people are living within each block group. To do this, building footprints for all proposed service areas were added, using GIS data created and maintained by the Sumter City-County Planning Department based on annual aerial imagery.

This data overlay shows more accurately where individual buildings are located within each block group. The map above shows how this data informed areas of need in more detail.

ANALYZING POTENTIAL TRANSIT NEED

STEP 3: IDENTIFY RESIDENTIAL STRUCTURES AND MAP AS OVERLAY TO TRANSIT PROPENSITY BLOCK GROUP DATA



To gain a more specific understanding of where potential riders are located, GIS analysis combining existing zoning regulations with building footprints was conducted to produce a layer of residentially zoned buildings. This selection was then manually validated for accuracy to confirm that the buildings included were, in fact, residences. As shown on the map above, this analysis eliminated non-residential buildings, allowing the project team to gain a specific understanding of the origin points for potential transit users so that routing alignments to serve those areas could be developed.

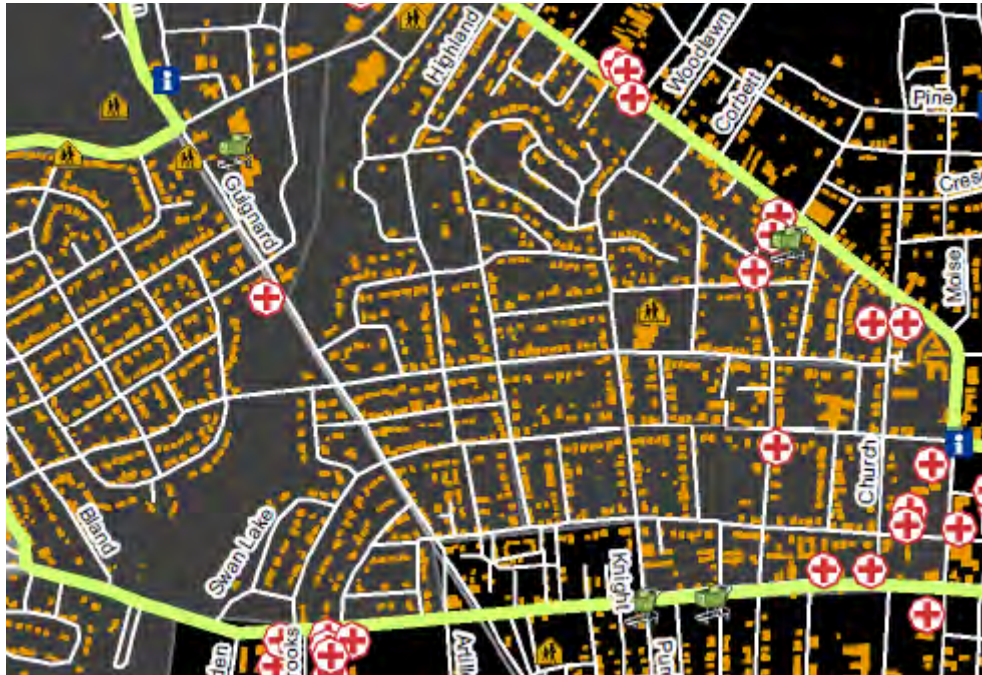
STEP 4: MAP KEY TRANSIT TRIP GENERATORS



With trip origin points (residences) identified, it is then necessary to determine where major destinations for these trips are located. This required geocoded address data on all businesses indicated in the three major trip generator categories: 1) Healthcare and Social Assistance, 2) Grocery/Food Stores, and 3) Education and Workforce Training Locations. This data was then overlaid with residential building footprints to show exactly where individuals could be anticipated to want to go. This completed analysis identified the areas of greatest need for both trip origins and destinations.

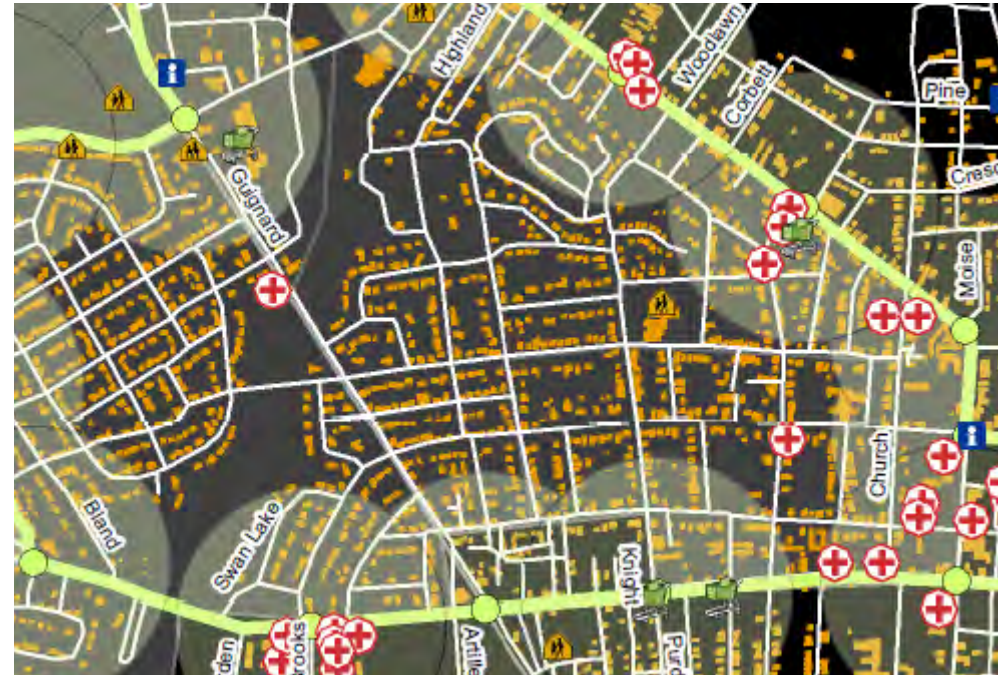
ESTIMATING POTENTIAL RIDERSHIP

STEP 1: MAP POSSIBLE TRANSIT ROUTES



With origin and destinations identified and mapped, the next step is to realign existing routes and identify potential new routes using the analysis results. The map above shows an illustration of this result. The goal of the routing is to reach as many residences as possible while linking those riders to key destinations or transfer points that would allow them to reach destinations. The example route above was identified to connect many of the higher education facilities in the Downtown Sumter area while also accessing neighborhoods of significant population that could further increase ridership.

STEP 2: IDENTIFY BUS STOPS ALONG ROUTES AND REASONABLE WALKING DISTANCE BUFFERS



The next step is to place stops along routes that maximizes both ridership and access to key destinations. Based on USDOT guidelines, individuals can be expected to be willing to walk, on average, 0.25 miles (roughly 5-10 minutes) to reach a bus stop. This 0.25 mile walk buffer was created around each proposed stop. Locations for stops were selected to include origin points and destinations, as well as create potential transfer points where multiple routes cross, allowing passengers to reach a variety of destinations from their home without having to go through the central bus terminal at the James E. Clyburn Center on South Harvin St.

ESTIMATING POTENTIAL RIDERSHIP

STEP 3: SELECT RESIDENTIAL BUILDINGS LOCATED WITHIN WALKING DISTANCE BUFFER



The total number of residential buildings within the 0.25 mile walk distance was then collected for each stop on the route. This establishes the number of housing units within each stop service area, though not the potential number of riders, as not all residents can be expected to be regular riders of the transit system. The estimated total number of people within walking distance of all stops along each route was then determined by multiplying the number of housing units by the average household size for the block groups where each proposed route is located.

STEP 4: CALCULATE POPULATION IN WALKING DISTANCE AND ESTIMATE POTENTIAL RIDERSHIP BASED ON DEMOGRAPHICS

Total Number of Residences
Within Walk Distance Buffer

X

Average Household Size
(per affected Block Group)

X

Zero Vehicle Households
(per affected Block Group)

=

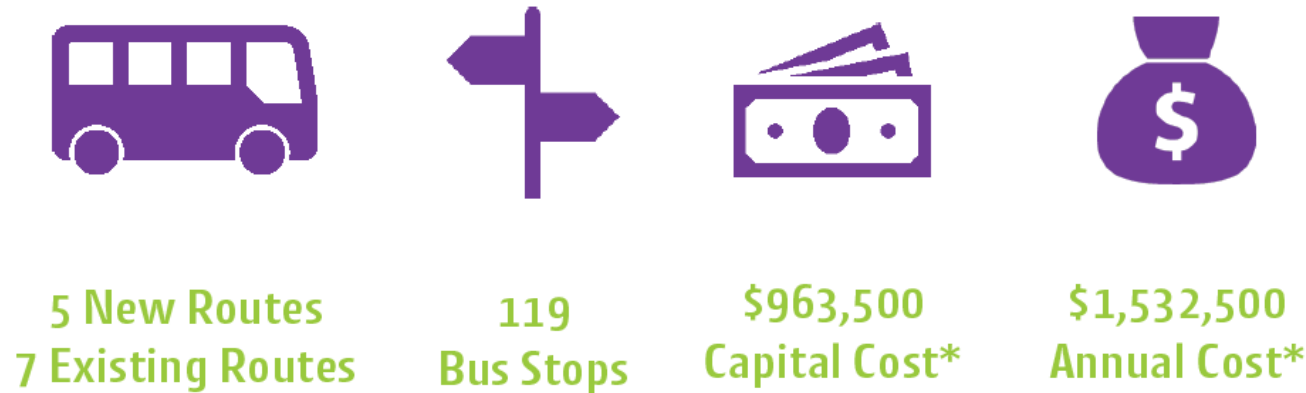
Estimate of Projected Ridership for Route

While the prior steps provide an estimated total number of individuals that could access transit in a given area, it does not provide a reliable projection of actual anticipated ridership. To establish this final - and most important - figure, the total number of potential riders was then multiplied by the average percentage of zero-vehicle households in the block groups along the route. This produces a figure that best approximates the population most likely to be users of transit services for each geographic area.

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PROPOSED FIXED ROUTE SERVICE COSTS

The recommendations in this Plan are drawn from the Santee-Lynches Region Transit Needs Assessment + Framework and identify opportunities to re-align and increase frequency for existing fixed routes and establish new fixed routes for the Sumter urbanized area. Additionally, intermittent fixed routes to provide access to the SUATS area for residents in Mayesville and Pinewood are included.

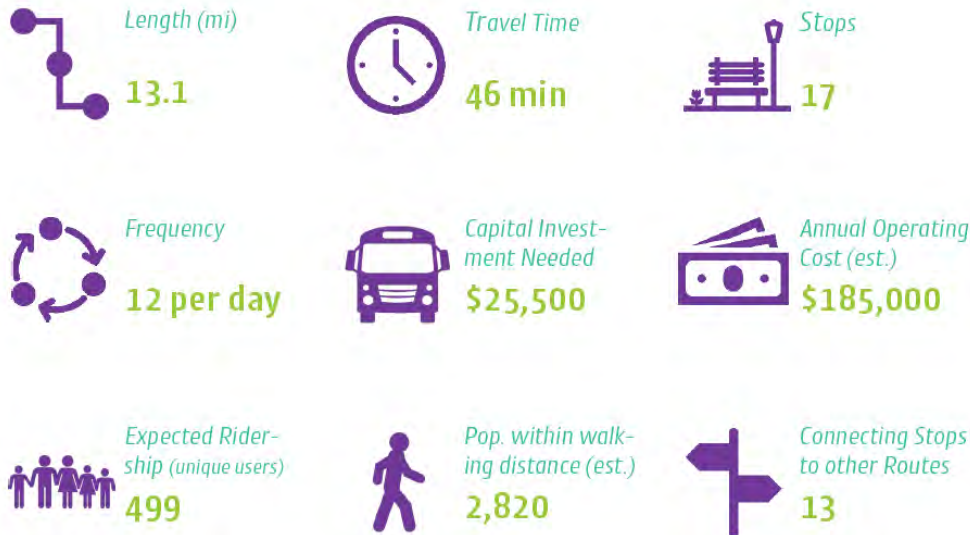
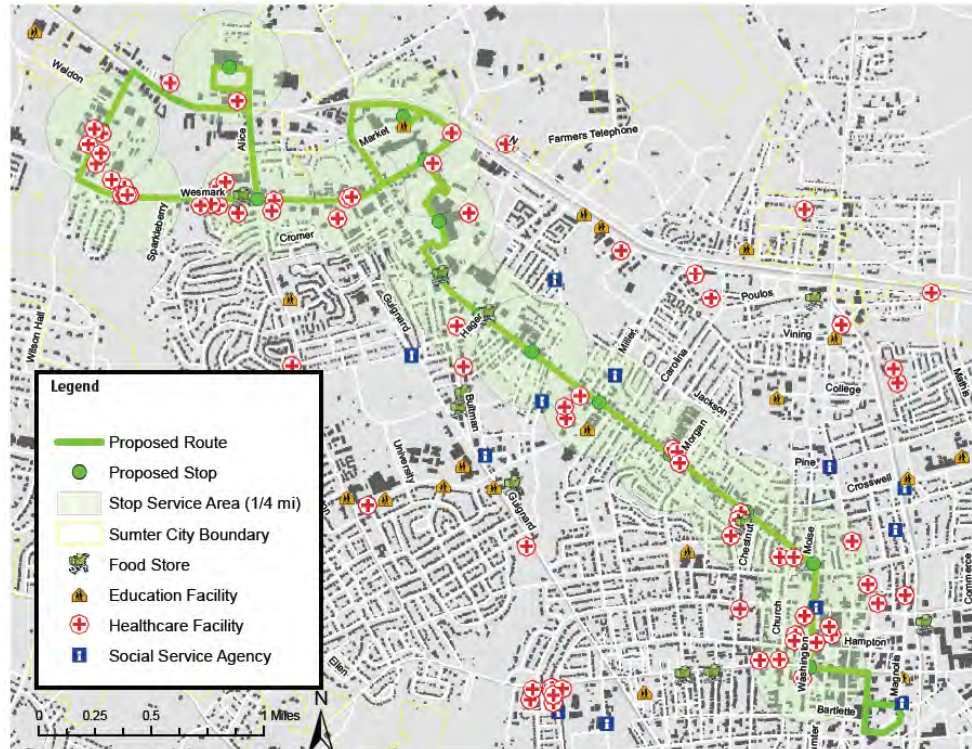


Route Name	Initial Capital Cost (vehicles, signage)	Annual Operating Cost	Total First Year Implementation Cost (Capital + Operations)
Broad Street Circulator*	\$ 134,810	\$ 225,700	\$ 360,510
Shaw Shuttle*	\$ 49,410	\$ 207,400	\$ 256,810
North Main Street Circulator*	\$ 147,620	\$ 189,100	\$ 336,720
Manning Ave Circulator	\$ 143,960	\$ 201,300	\$ 345,260
East Sumter Circulator	\$ 31,110	\$ 149,450	\$ 180,560
West Liberty Circulator	\$ 36,600	\$ 131,150	\$ 167,750
Sumter SmartRide*	\$ 7,320	\$ 222,650	\$ 229,970
Heart of Sumter Circulator	\$ 136,640	\$ 143,350	\$ 279,990
North Pike Circulator	\$ 142,130	\$ 186,050	\$ 328,180
Mayesville Connector	\$ 111,020	\$ 36,600	\$ 147,620
Pinewood Connector	\$ 111,020	\$ 73,200	\$ 184,220
West Sumter Circulator	\$ 123,830	\$ 103,700	\$ 227,530

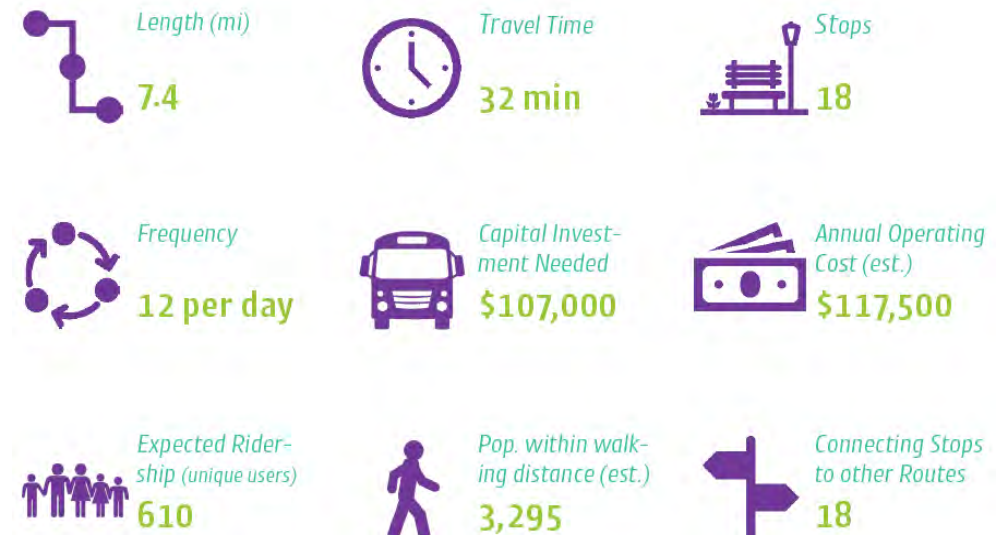
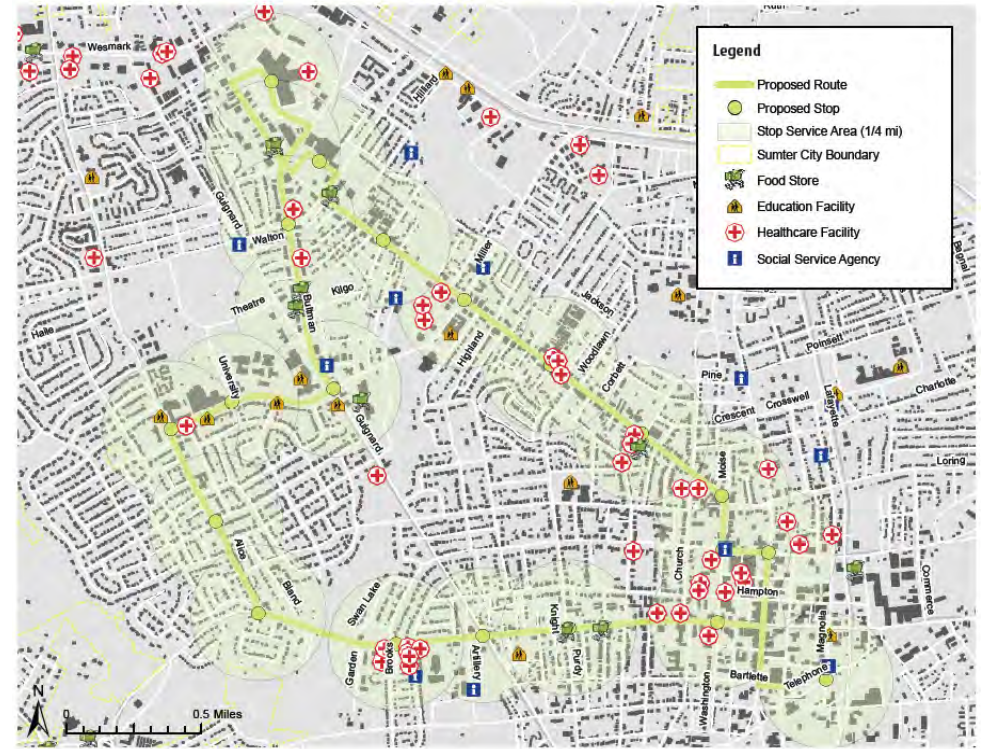
* Denotes Existing Route

PROPOSED NEW AND UPDATED SUMTER FIXED-ROUTES

Broad Street Circulator (Green Route)

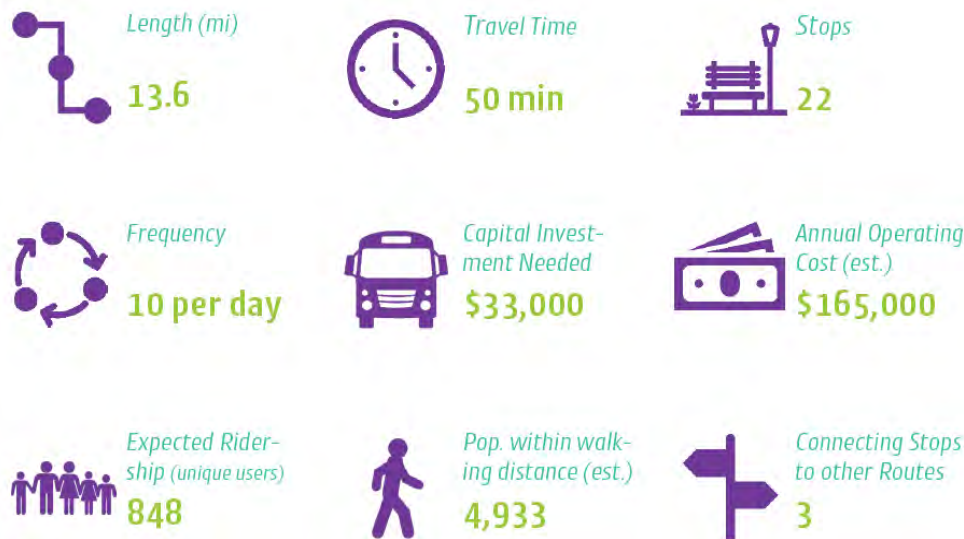
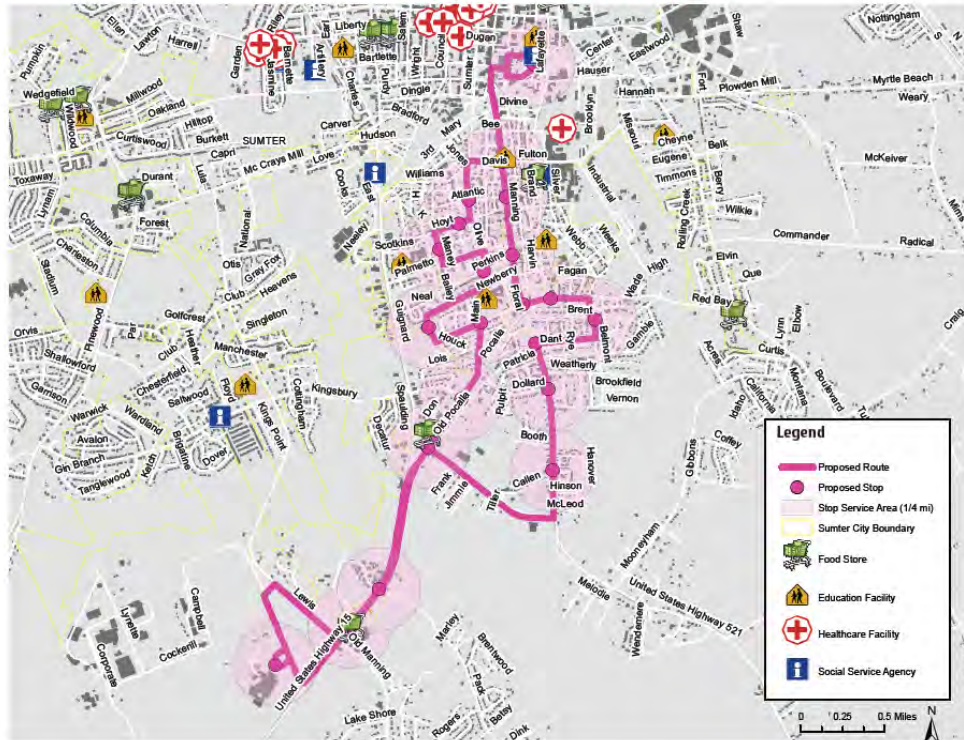


Heart of Sumter Circulator (Light Green)

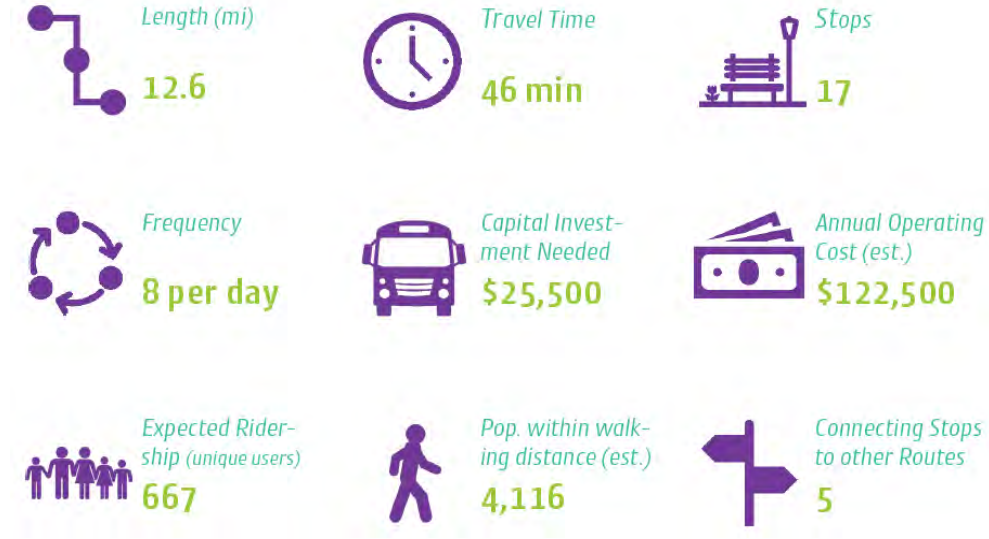
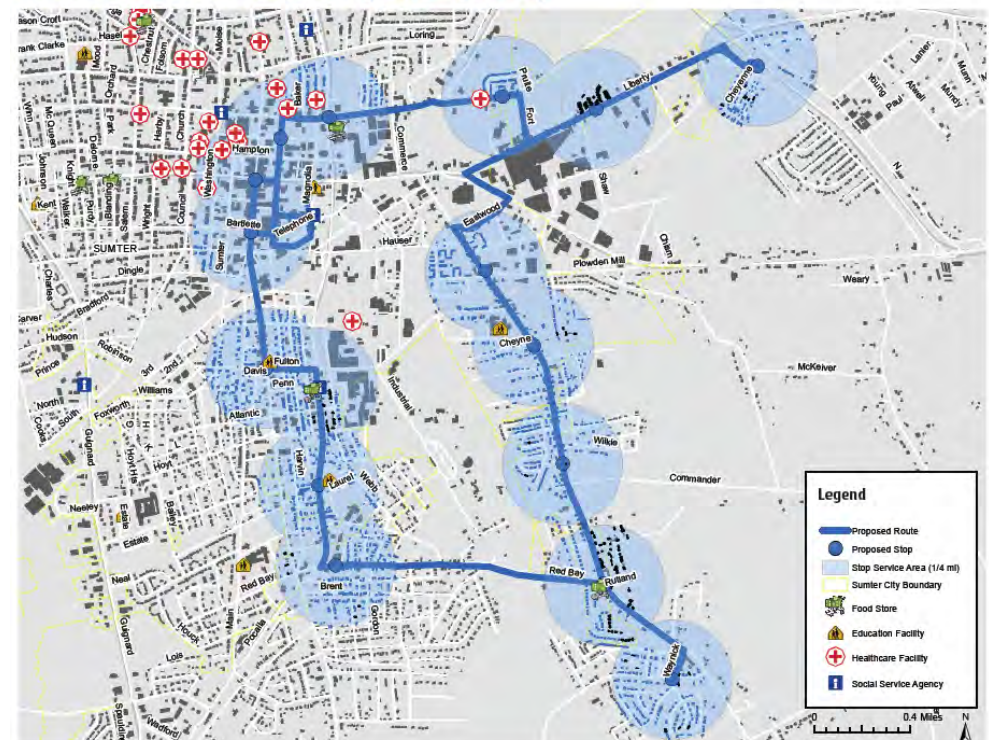


PROPOSED NEW AND UPDATED SUMTER FIXED-ROUTES

Manning Avenue Circulator (Magenta Route)

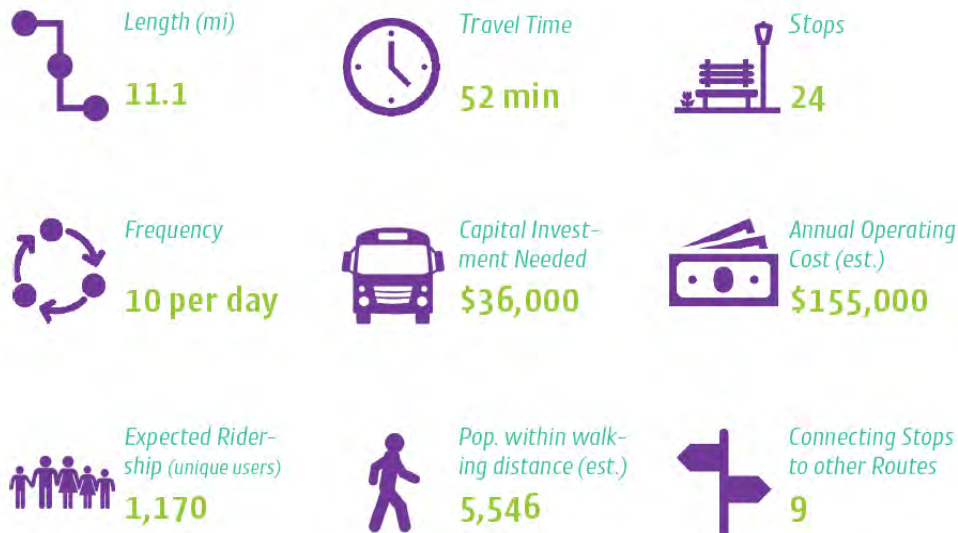
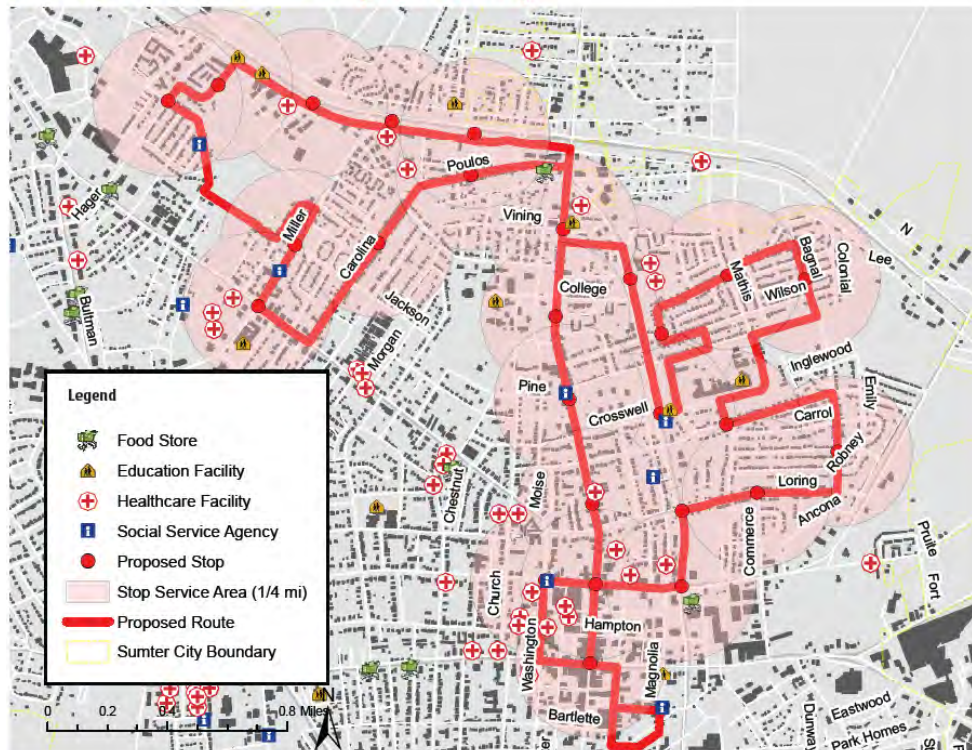


East Sumter Circulator (Blue Route)

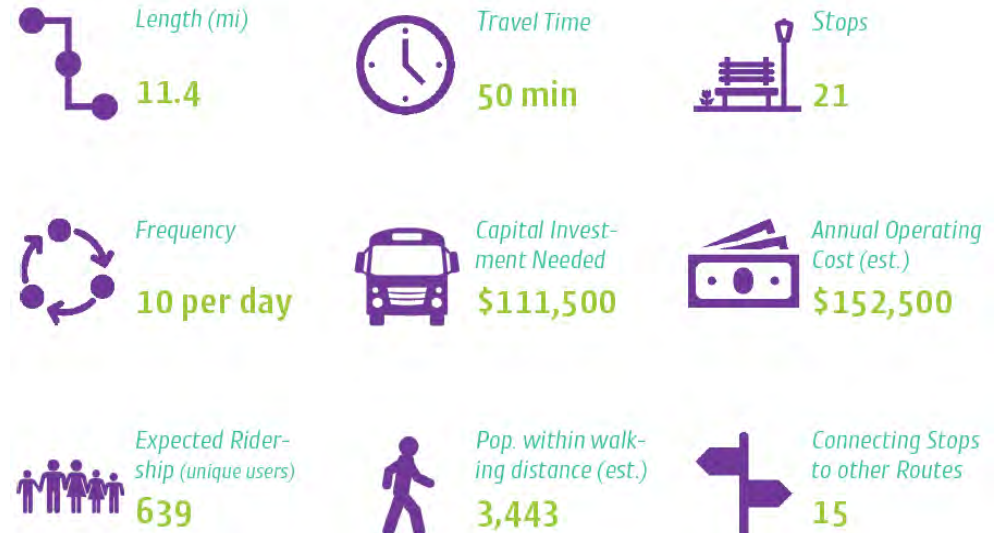
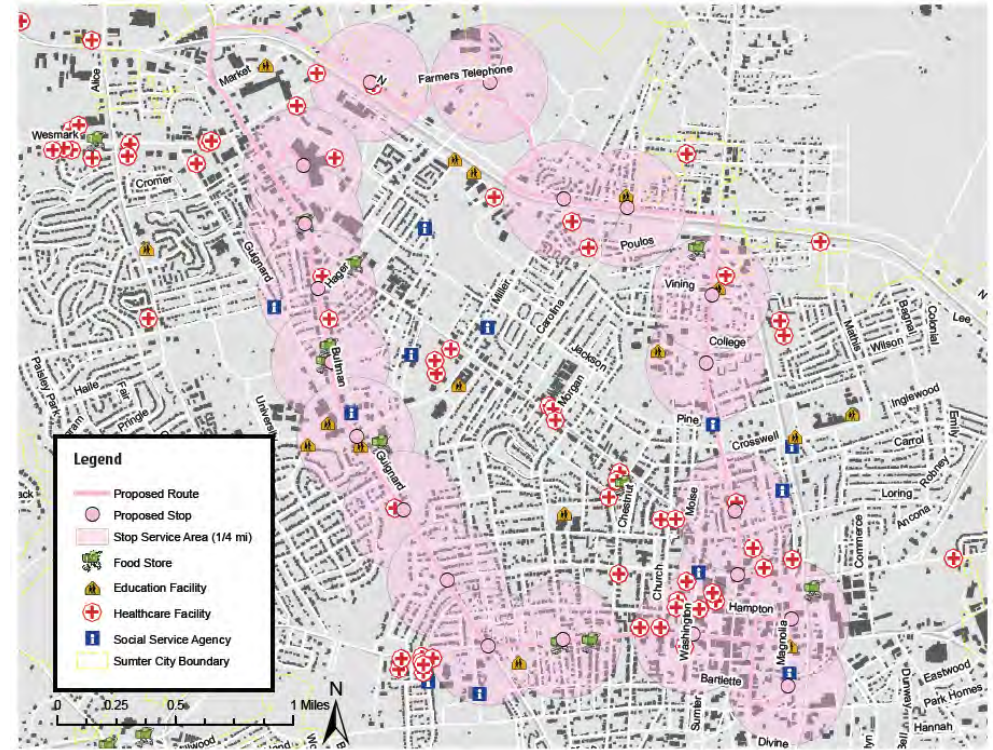


PROPOSED NEW AND UPDATED SUMTER FIXED-ROUTES

North Main Circulator (Red Route)

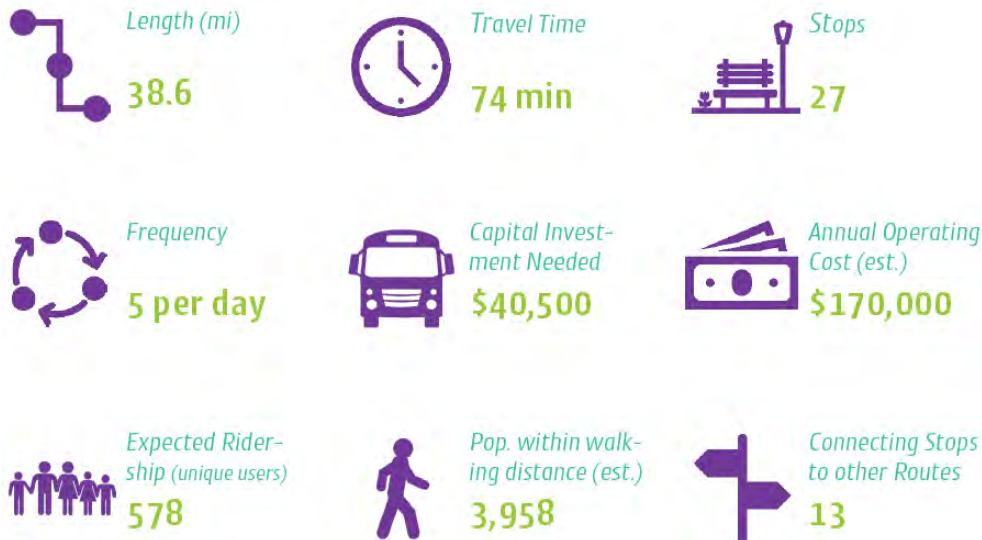
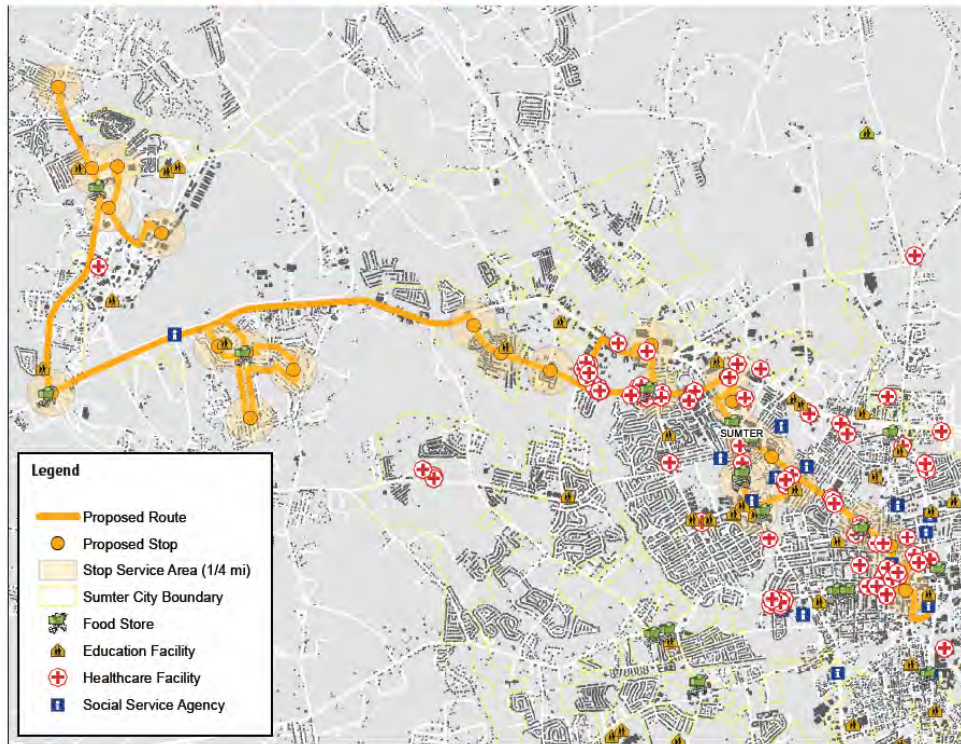


North Pike Circulator (Pink Route)

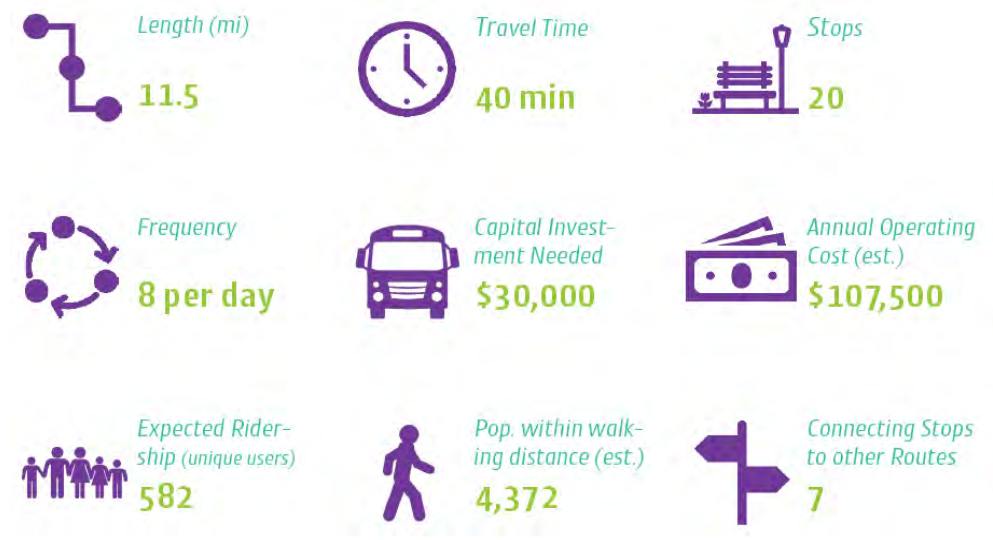
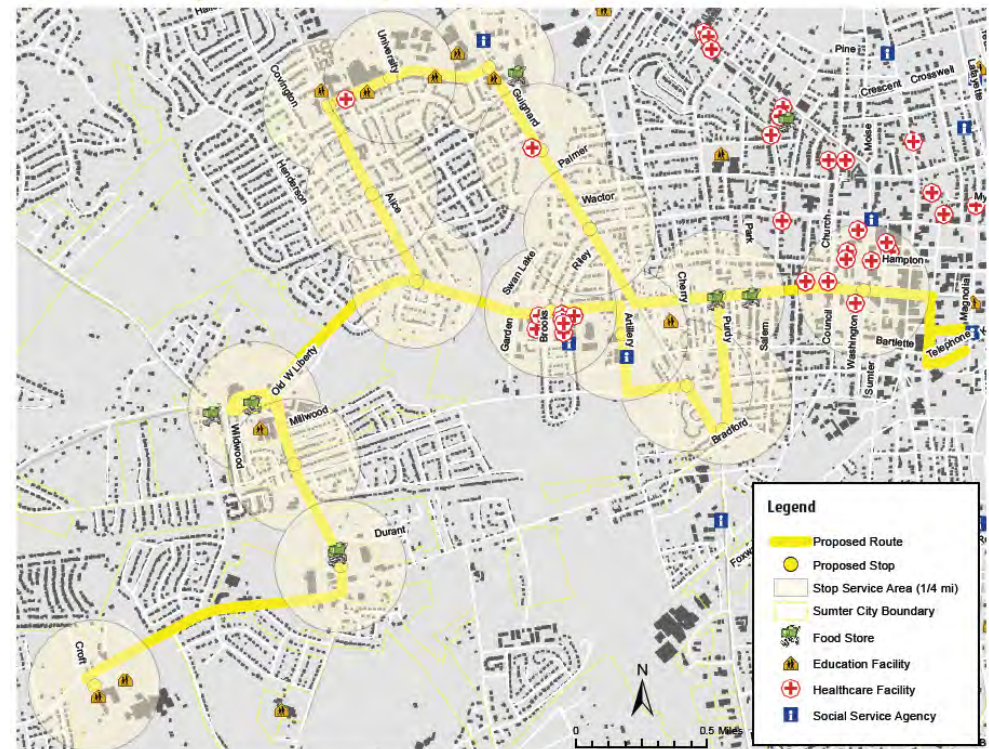


PROPOSED NEW AND UPDATED SUMTER FIXED-ROUTES

Shaw Shuttle (Orange Route)

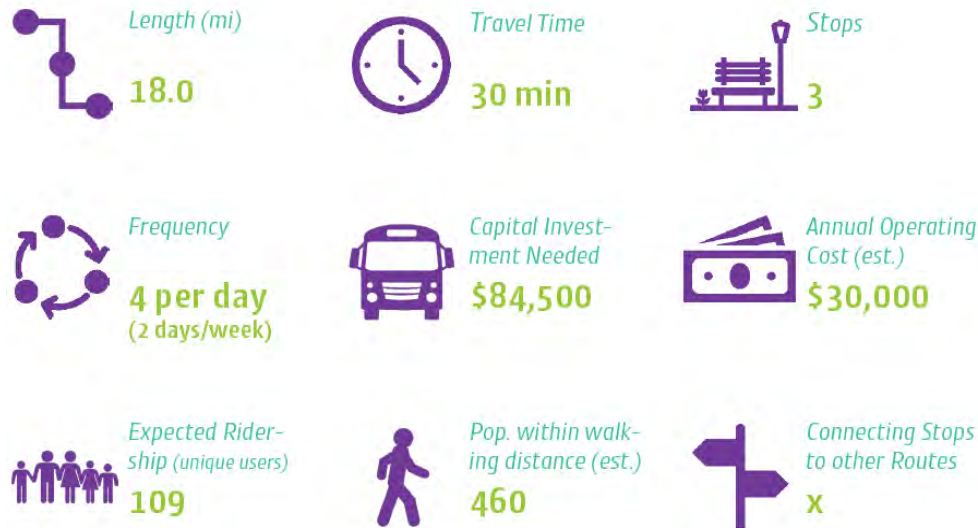
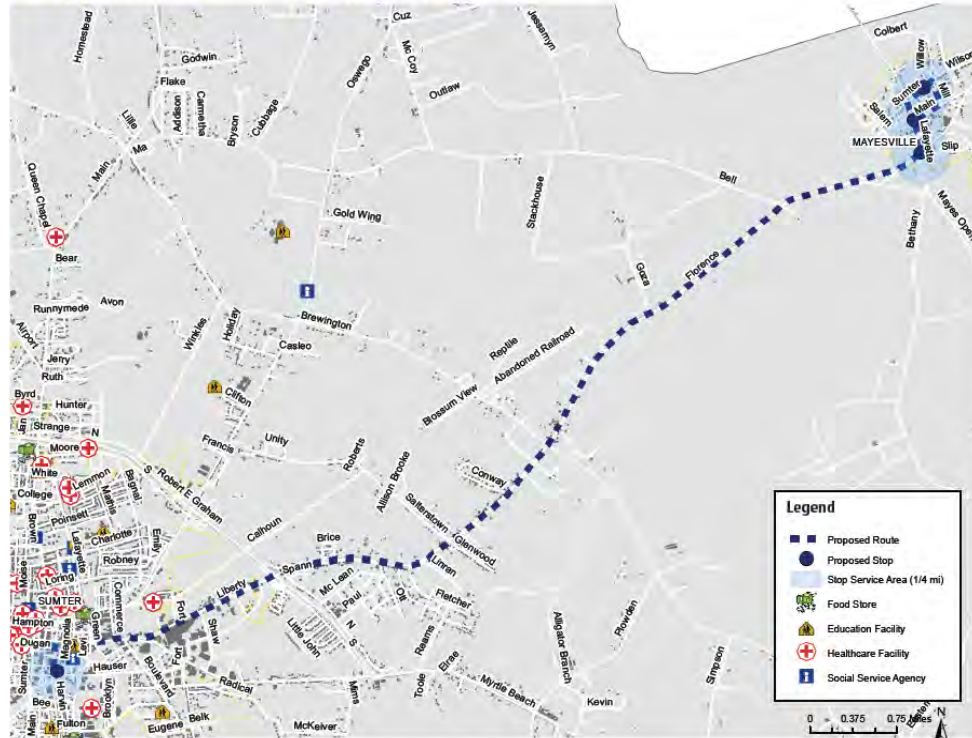


West Liberty Circulator (Yellow Route)

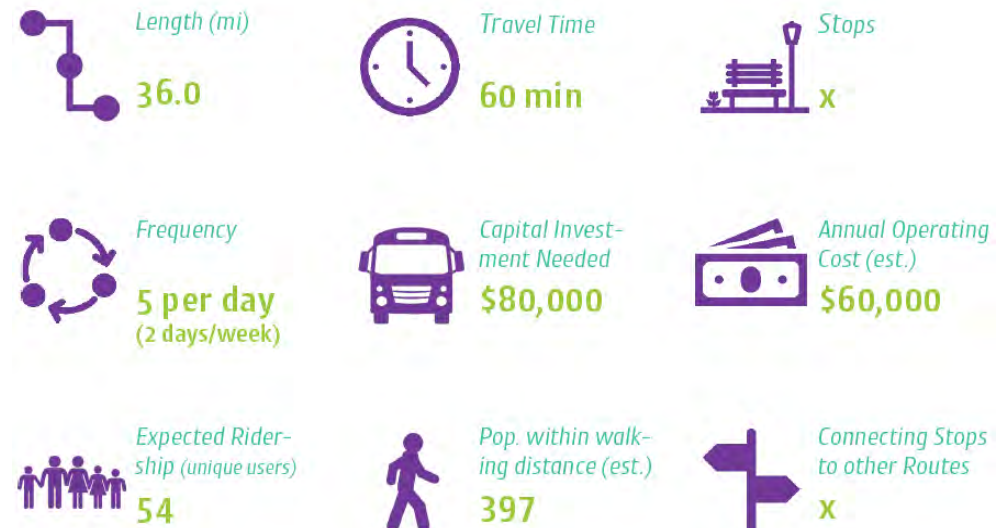
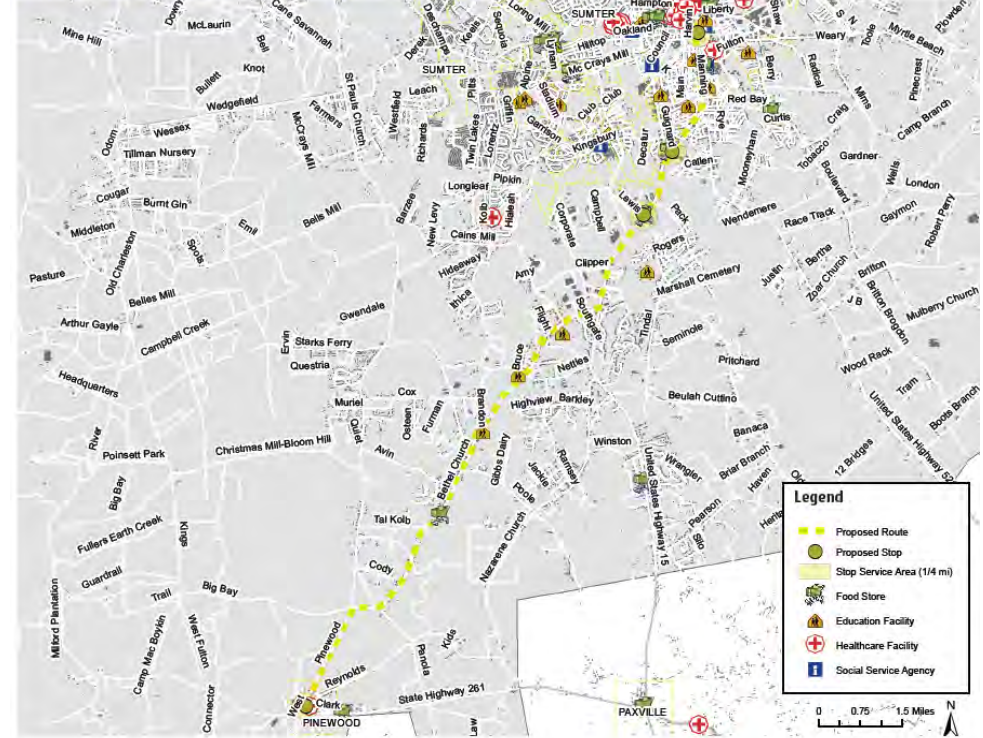


PROPOSED NEW AND UPDATED SUMTER FIXED-ROUTES

Mayesville Connector (Navy Route)

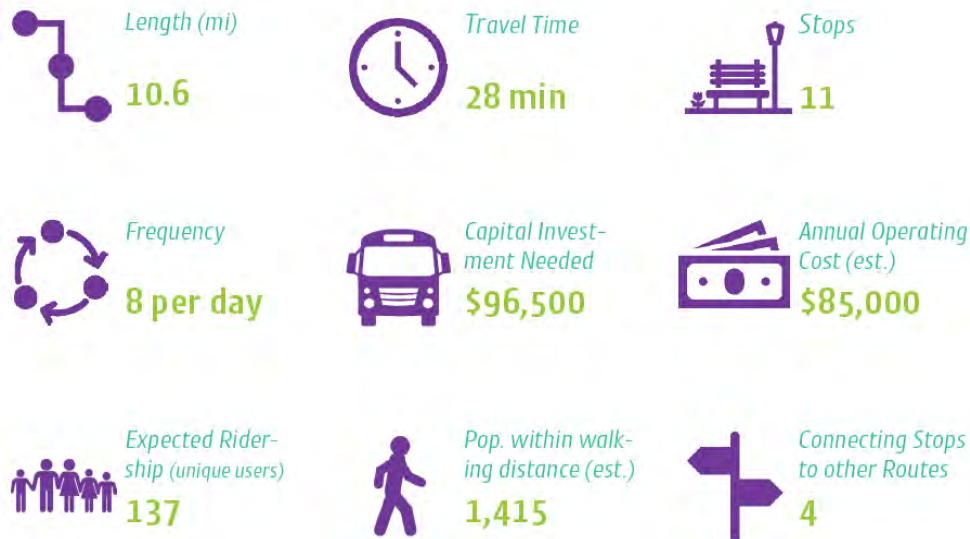
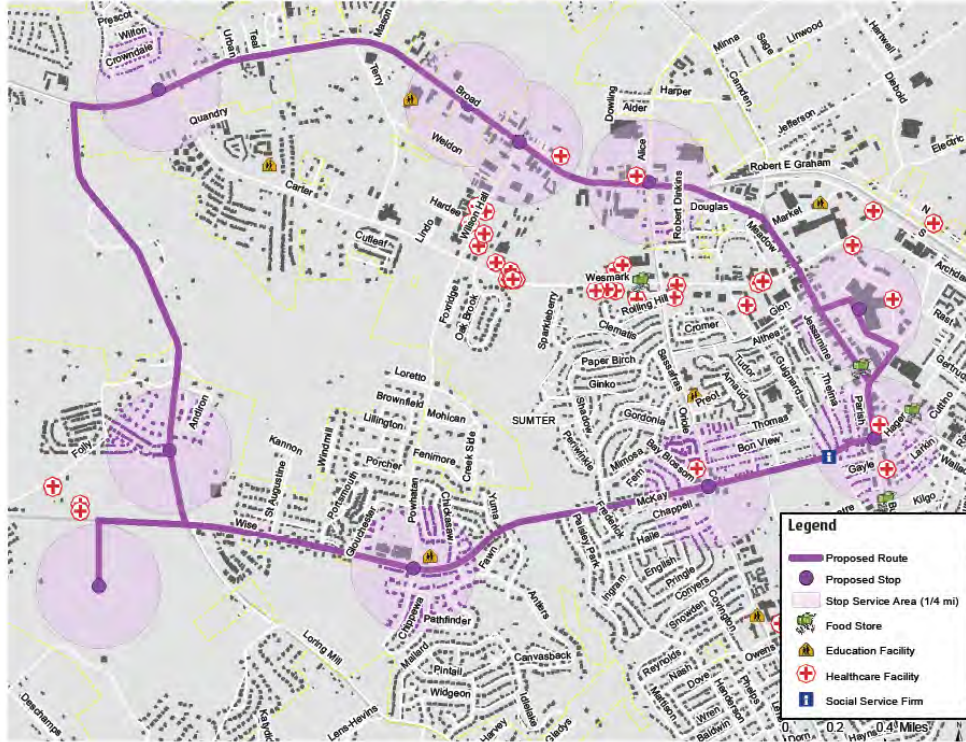


Pinewood Connector (Marigold Route)

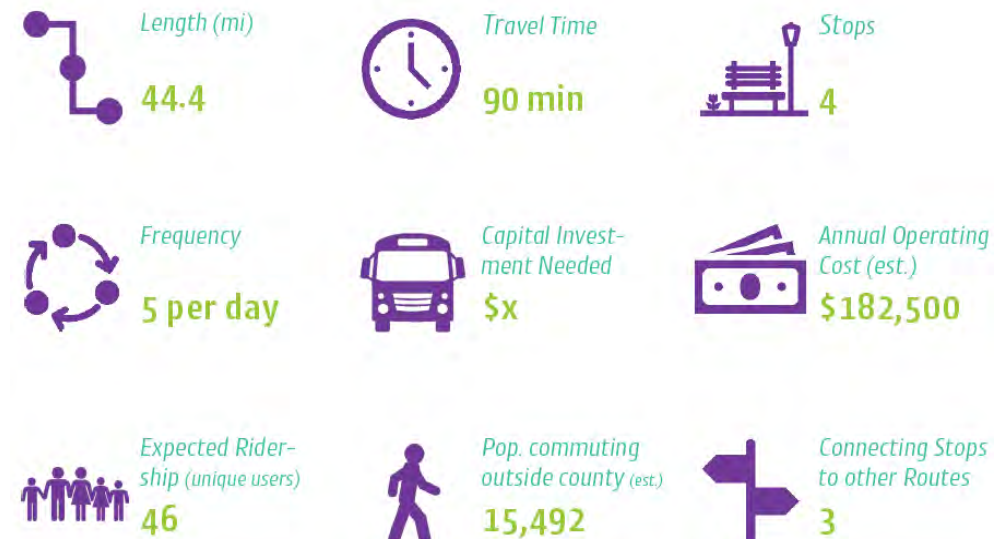
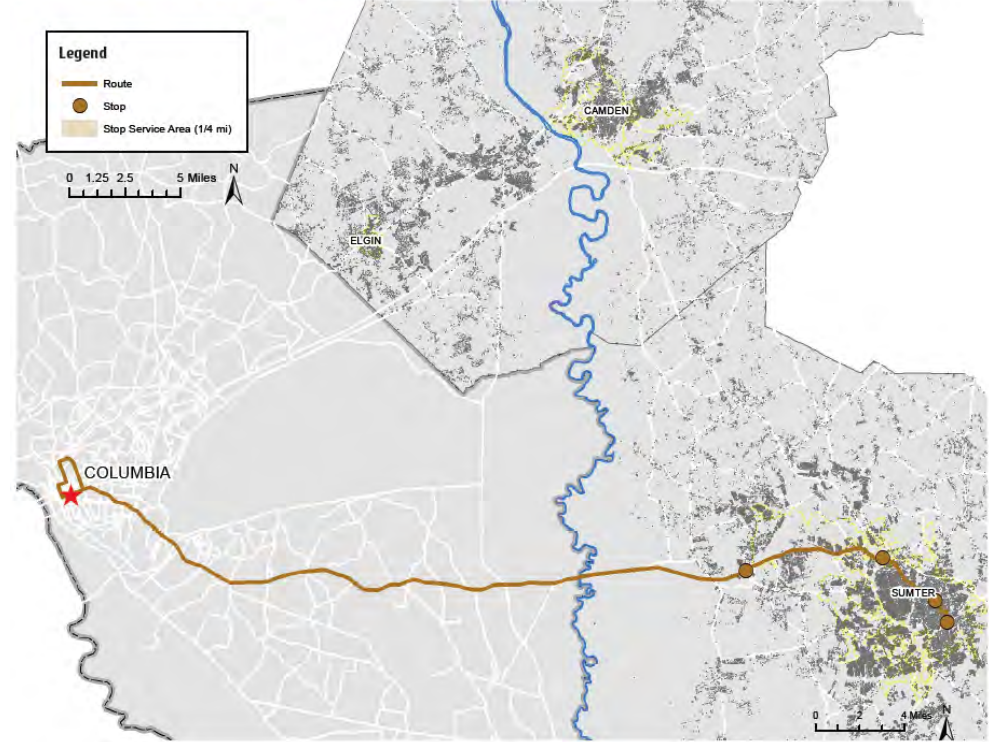


PROPOSED NEW AND UPDATED SUMTER FIXED-ROUTES

West Sumter Circulator (Purple Route)



Sumter SmartRide (Gold Route)





CHAPTER 10

FREIGHT, RAIL, AND AVIATION



CHAPTER 10

FREIGHT (TRUCK)

TRUCK ROUTE RECOMMENDATIONS

FREIGHT RAIL

PASSENGER RAIL

AVIATION

RAIL LINES AND INDUSTRIAL PARKS MAP

FREIGHT NETWORK MAP

SUMTER MUNICIPAL AIRPORT REPORT CARD

FREIGHT (TRUCK)

The movement of goods through and between communities is often overlooked, but these freight activities play a vital role in our economy. A safe and efficient system that accommodates the needs of freight is an important element to consider during Sumter's LRTP planning process.

Freight has been an important part of life in Sumter since the original King's Highway (SC-261) connected the larger cities of Camden and Charleston. Freight between Sumter and Charleston traveled by road and ferry until the railroad arrived in the mid-19th century. The growth of the railroad improved freight mobility and contributed significantly to the local and regional economy. Today, freight continues to move through the area by rail, but the expansion of the interstate highway system in the region has shifted much of the dependence from rail to trucks.

An effective transportation network combines all modes of freight movement to achieve a level of efficiency that ensures the marketplace can operate without interruption. The economy of the SUATS MPO area depends on the movement of goods through the MPO.

A safe and efficient system that accommodates the needs of freight is an important element to consider during Sumter's LRTP planning process.

FREIGHT TRENDS

According to the Bureau of Transportation Statistics Freight Analysis Framework, the volume by weight of domestic shipments in 2017 was 17.478 million tons. This total volume was expected to increase to 17.786 million tons by 2023, and to 24.911 million tons by 2050. Trucks comprise the lions share of this freight movement, accounting for 68% in 2017, and expected to grow to 70% by 2050. The balance of freight is carried by a combination of pipelines, waterways, air, and multiple modes.

For decades, the nation's freight railroads have lost market share to highway freight (trucks). This trend has led to increased levels of traffic congestion on our nation's freeways and highways. In recent years, particularly in South Carolina, development of "Inland Port" facilities in Greer and Dillon has helped move goods from the Port of Charleston inland via rail without burdening the I-26 and I-95 corridors with freight trucks. Sumter's proximity to the coast, and the economic realities associated with ability to commit return cargo via rail from those inland port facilities, precludes development of an "Inland Port" style facility in SUATS.

As a result, SUATS will continue to rely on existing freight corridors, and will need to manage these corridors as efficiently as possible.

Figure 10.1 - Modal Service Attributes and Cost



FREIGHT (TRUCK)

EXISTING CONDITIONS

Freight movements originating in Sumter travel via the region's US routes and major arterials to interstate highways located outside the MPO. SUATS is located in a triangle formed by three interstates: I-95, I-20, and I-26, though none of these highways actually crosses the MPO boundary.

The primary north-south route is US-15, which connects Sumter to I-20 to the north and I-95 and I-26 to the south. **Live Oak Industrial Park**, the region's largest industrial park, is directly adjacent to US-15 south of the City of Sumter. In addition, **Black River Industrial Park**, the region's second largest industrial park, is located close to US-15 north of the City of Sumter.

US-521 provides an alternate connection to I-20 to the north and I-95 and I-26 to the south. Continental Tire Americas has established a large manufacturing facility adjacent to US-521 south of the City of Sumter within the last 10 years, and Sumter's economic development agency is actively working to establish a third major industrial park for the region, known as **Pocotaligo Industrial Park**.

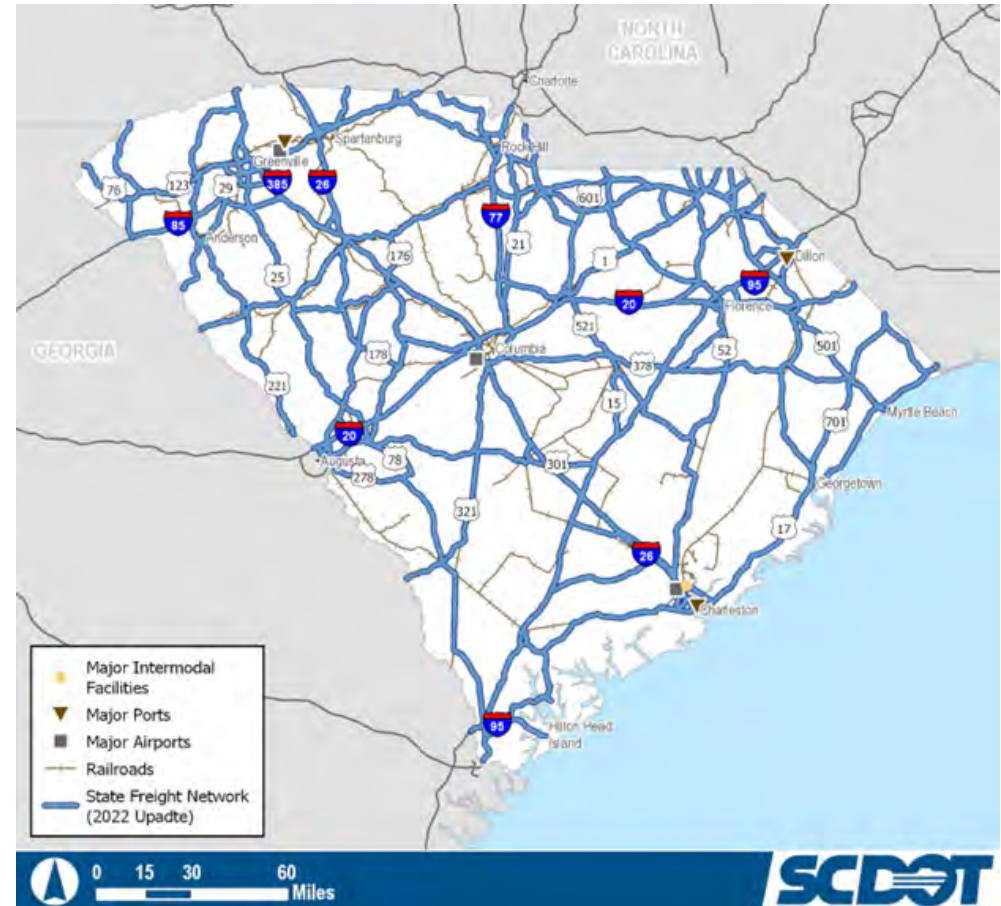
Movements east and west rely primarily on US-378/76, which connects Sumter to Columbia to the west and I-95 to the east, before continuing to Myrtle Beach to the east. Sumter's oldest industrial zone, located immediately to the east of the Central Business District, is accessible to US-378/76.

Engagement with Sumter's economic development agency and industries in the area have re-emphasized the critical regional connections to interstate highways provided by these major non-interstate highways. As expected, condition of infrastructure, particularly the condition and load capacity of major bridges is of paramount concern to industries that rely on freight trucks to transfer raw materials and finished products around and through the region. Though



replacement of obsolete and deficient bridges and resurfacing of roads has been specifically discouraged by SCDOT as a use of funding under the MPO's Regional Mobility Program, SUATS can and should continue to advocate strongly for inclusion of key roads and bridges on the state's capital plan.

South Carolina Statewide Freight Network (2022)



FREIGHT (TRUCK)

Truck Route Recommendations

Trucks are defined as vehicles with a manufacturer's gross vehicle weight of 33,000 pounds or more. This definition excludes most straight, panel, and delivery trucks, but includes large trucks with more than two axles, such as tractor-trailers and tandem axle dump trucks. This definition also excludes public service vehicles, such as trash collection trucks.

The Federal Highway Administration's (FHWA) Freight Analysis Framework was analyzed to determine route designation and recommendations. When comparing the 2017 framework to the 2050 framework, freight routes change very little. Each of the major routes carry less than 20,000 kilotons per year in both models.

With this framework in mind and upon designation of routes, signs should continue to be posted at the city limits, highway exits, and other appropriate locations directing truck drivers to those streets on which their movements are permitted. Restrictions may include limiting their travel to US and SC routes or designated/signed routes through the city. Truck enforcement strategies within city limits should be revisited to ensure that trucks are prohibited on local streets.

Truck designations for major routes and industrial streets could prove beneficial. Those streets critical to the freight community and intended to serve truck traffic are logical selections for truck route designation. These streets include US-76, US-378, US-15, and US-521. Utilization of these routes provides better defined east-west and north-south freight corridors. Likewise, truck traffic should be discouraged on roadways that do not meet the design criteria necessary to facilitate heavy truck traffic.

The Lafayette Drive Corridor Study, an action item of a previous update of the SUATS Long-Range Transportation Plan, created a community-based plan to reinvigorize one of the area's critical north-south corridors.



Currently, heavy vehicles are using several facilities throughout Sumter to travel between US-378/76 and the various industrial parks. These roads include routes through the central business district that were not intended to facilitate major truck traffic.

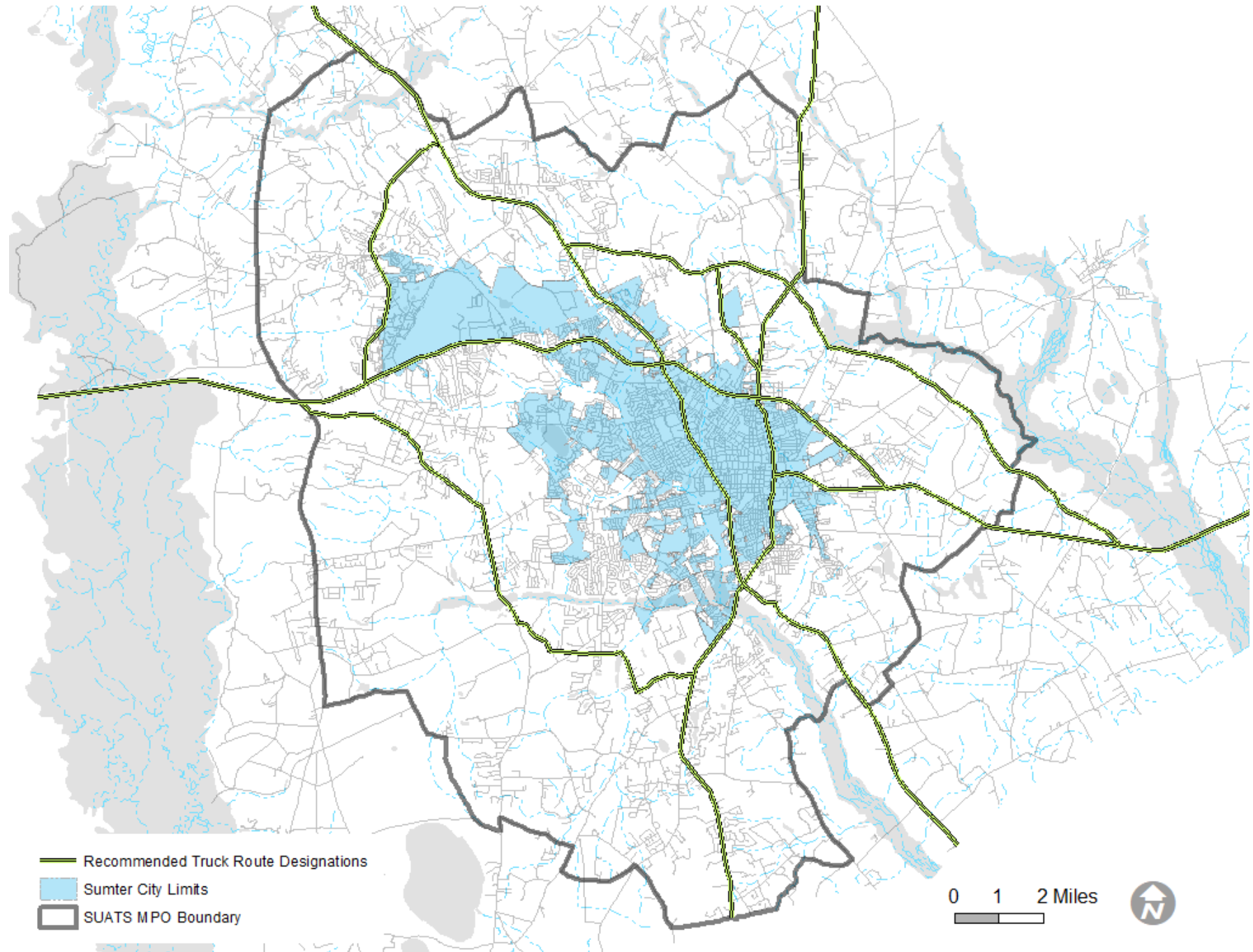
Recommendations from that study for wayfinding, signage, and truck route designation include consolidating the current designations into a continuous truck route through the city that utilizes the capacity and geometrics of Lafayette Drive (designated as US 15). From the north, the consolidated truck route would utilize the proposed interchange at US 76/378 before proceeding down Lafayette Drive.

Increased industrial development will require efficient truck access and circulation to the arterial system, ultimately improving freight mobility while limiting cut-through truck traffic in neighboring subdivisions.

Additional tasks associated with establishing truck routes through the urban area include:

- Work with SCDOT to prioritize resurfacing of designated routes in an effort to reduce noise and vibration from trucks.
- Adjust signal timing along high priority routes to allow uninterrupted through movements based on posted speed limits. The result will be improved travel times and reduced noise and air pollution.
- Publish and distribute educational materials to businesses and industries concerning proposed designated truck routes.
- Work with SCDOT to make improvements to critical intersections on truck routes to facilitate and encourage their use by truck operators. Improved turning radii, lane width, and the provision of dedicated turn lanes will greatly improve the efficiency and safety of these corridors.
- Identify streets in industrial areas that function as industrial collectors and work with stakeholders to evaluate and implement the appropriate cross-section presented in Chapter 5.

TRUCK ROUTE RECOMMENDATIONS



FREIGHT RAIL

The existing rail network in the SUATS MPO area includes track owned and operated by two major railroad companies (CSX Corporation and Norfolk-Southern Railway Company) as well as the U.S. government.

CSX Corporation provides freight rail service to the heart of Sumter with three railroad lines approaching downtown from the south, southwest, and west. These lines are part of the company's 1,300 miles of railroad in South Carolina that links Sumter with the state's major cities. The more than 22,000 miles of CSX track that blanket the eastern United States connect Sumter to major cities from Canada to southern Florida and as far west as St. Louis.

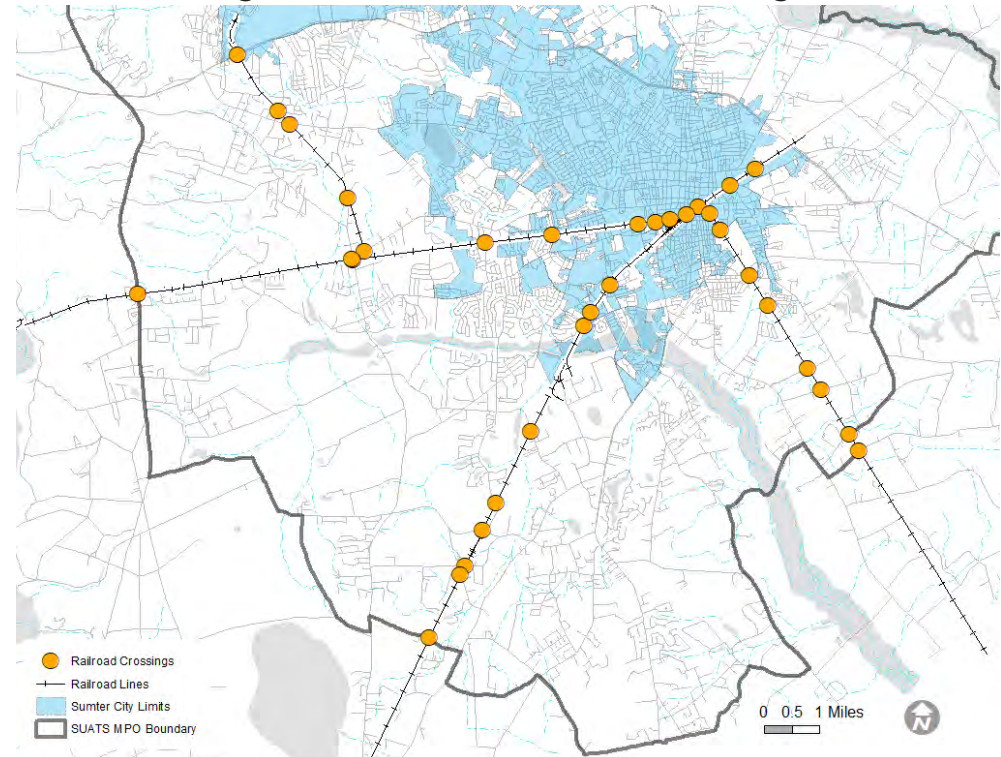
The Norfolk-Southern Railway Company has a single line just west of the study area that runs north to Columbia and south to Charleston. Like CSX, the Norfolk-Southern line is part of an extensive network of more than 21,000 miles of railroad that connects Sumter with points across the eastern U.S.

The final link in the SUATS area railroad network is owned and operated by the U.S. Air Force. The line owned and operated by the Air Force includes a 5-mile railroad spur that connects Shaw AFB with the east-west CSX line at Cane Savannah just west of the city limits. The line's sole purpose is to transport jet fuel to Shaw Air Force Base.

Several local companies depend on private rail for importing materials and exporting products. Rail access can be a major selling point to businesses looking to relocate to the area. In addition to strengthening the local economy, the use of rail for moving freight has a significant impact on the area's roadways, particularly given the large ports on the South Carolina coast.

According to the CSX Corporation, every rail car trip provided by the company removes approximately 3 truck trips from the state's highways.

Figure 10.2 - Active At-Grade Rail Crossings



PASSENGER RAIL

South Carolina does not have dedicated state revenue sources for passenger or freight rail. In addition, the state's current public-private partnership legislation does not include passenger or freight rail projects. There are some limited opportunities for state and local financial assistance for Class I and Short Line freight rail companies and passenger rail initiatives from South Carolina's Department of Commerce and the South Carolina Transportation Infrastructure Bank.

Existing rail passenger service in South Carolina is provided by Amtrak. 4 separate Amtrak rail lines pass through the state, though none operate through SUATS or Sumter County. The closest passenger rail stations to SUATS MPO are Camden, SC and Kingstree, SC.



While no active passenger rail currently exists in SUATS, there is activity at the regional level that may result in future passenger rail connections.

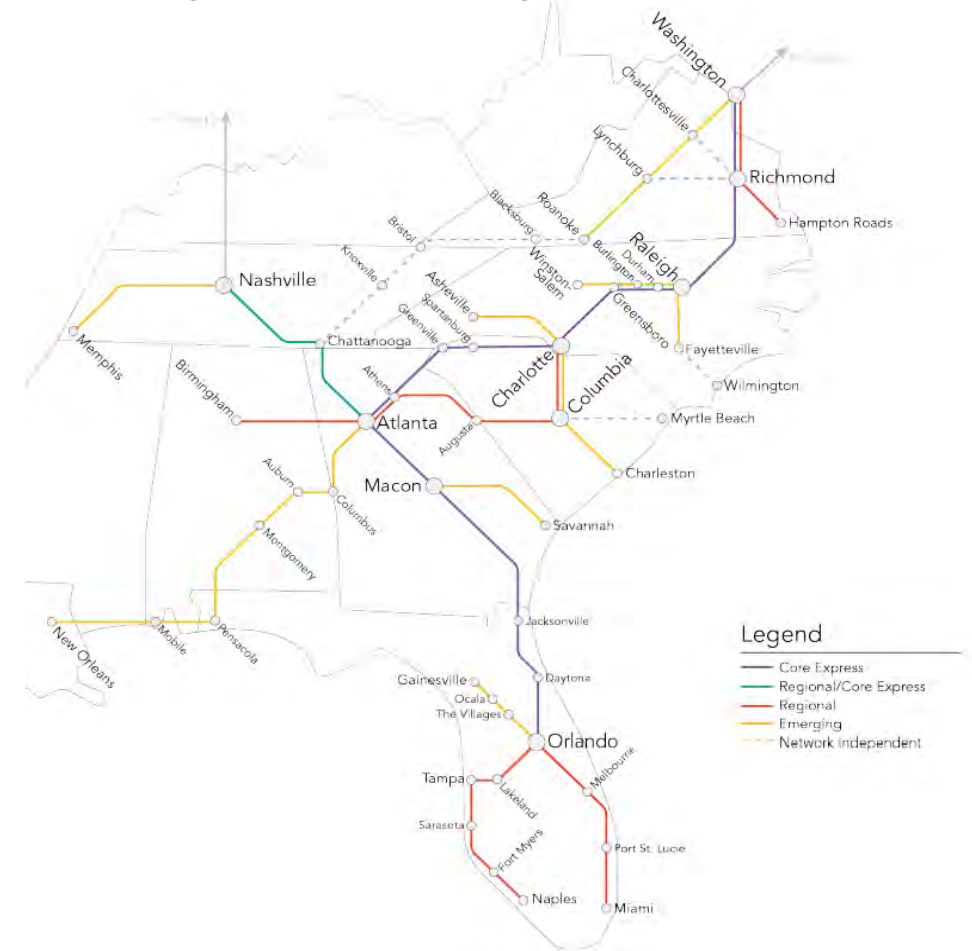
Future connections may come as a result of Sumter's geographic position (e.g. between Columbia and Myrtle Beach), or as a result of environmental impact and alignment studies (e.g. using an eastern alignment to connect Charlotte and/or Columbia and Charleston via Sumter.)

Figure 10.3 - Southeast Corridor Commission Current Corridor Status

The Southeast Corridor Commission (SEC) was established in November 2019 to prioritize and advance near-term projects across the region and develop a multi-state investment strategy for a long-term regional rail network. In July 2022, the SEC Development Strategy for High-Performance Rail in the Southeast was completed.

The purpose of the strategy is to synthesize service and infrastructure recommendations from various study efforts to ensure consistency and convey priorities and actionable next steps to advance high-performance passenger rail.

Figure 10.4 - Southeast Regional Rail Network Vision



AVIATION

Airports serve the needs of the flying public, whether as passengers on an airline or piloting private passenger or freight aircraft.

EXISTING CONDITIONS

Sumter Municipal Airport (SMS) is a general aviation facility without scheduled passenger service. The County owns the Airport, which is located in north central Sumter County. The existing conditions and recommendations for this section are derived from the Sumter Airport Layout Plan (ALP) and South Carolina Aviation System Plan Update (2018).

SUMTER MUNICIPAL AIRPORT (SMS)

Characteristics of the runways, taxiway, and facilities at the airport are outlined both in Table 10.5 and the following details in this section.

AIRCRAFT STORAGE

The following aircraft storage options are available at Sumter Airport:

- Conventional Hangars — 3 hangars totaling 22,800 square feet; the 100' x 120' facilities operated by Pride Aviation serve as maintenance hangars
- T-Hangars — 3 hangars (30' x 330' and 52' x 230') totaling 30 units

TERMINAL AND SERVICES

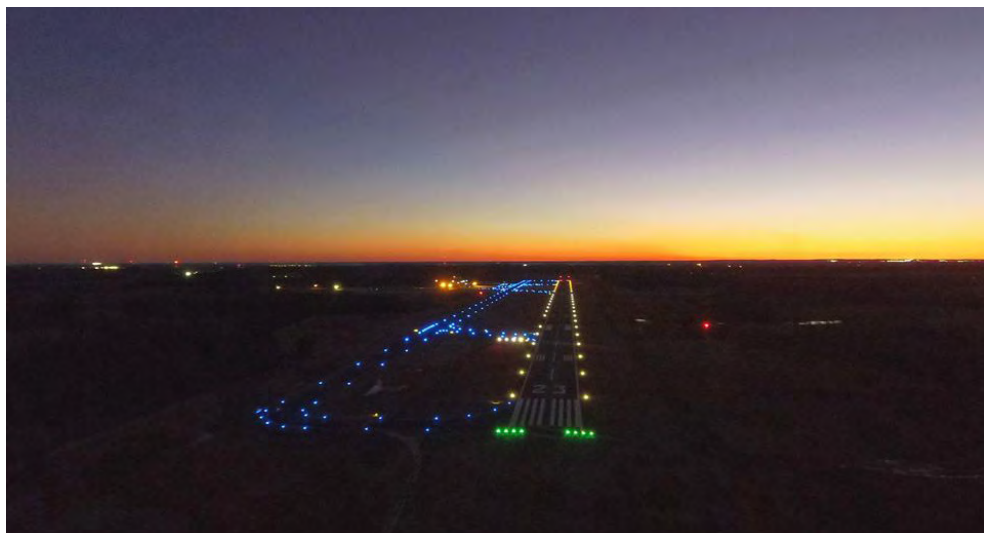
The 6,800-square foot Sumter Municipal Airport terminal provides a lobby, restrooms, flight planning, vending machines, and management offices. Fixed Based Operator (FBO) services include fuel provided by On Eagles Wings and aircraft maintenance provided by Pride Aviation.



Sumter Municipal Airport (SMS) - Layout Diagram

Table 10.5 - Airport Facilities (Runways, Taxiways)

	Designation	Surface	Length	Width	Load Bearing	Notes
Primary Runway	5/23	Asphalt	5,500 ft.	100 ft.	26,000 lbs. (single gear) 55,000 lbs. (dual gear)	
Secondary Runway	14/32	Turf	3,200 ft.	120 ft		Accommodates VFR operations only
Taxiway		Asphalt				3 stub connectors and 2 high-speed exits



AIRCRAFT ACTIVITIES

The general aviation operations at Sumter Municipal Airport include charter, corporate, and non-scheduled air taxi service. As of December 2022, 31 aircraft were based at the airport, including 21 single engine and 5 multi-engine aircraft. Additionally, Med Trans, an air medical transport company, has established a base of helicopter operations at the Sumter Airport.

Table 10.6 - Aircraft Based at Sumter Municipal Airport

Year	Single Engine	Multi-Engine	Rotor	Other (Jet, Experimental)	Total
1990	27	3	0	0	30
1995	30	4	0	0	34
2000	35	2	0	2	39
2013	52	10	0	0	62
2018	36	10	0	1	47
2022	21	5	1	4	31

IMPROVEMENTS SINCE 2017

Several improvements have been made at the Sumter Airport beginning in late 2017. These include:

- Runway surface work, including the application of a rejuvenation compound which will extend the asphalt life by 5-7 years.
- Runway re-striping.
- Runway lighting replacement to be completed June 2018.
- Runway and taxiway signage update.

Table 10.7 - Emplaned Pilots and Passengers

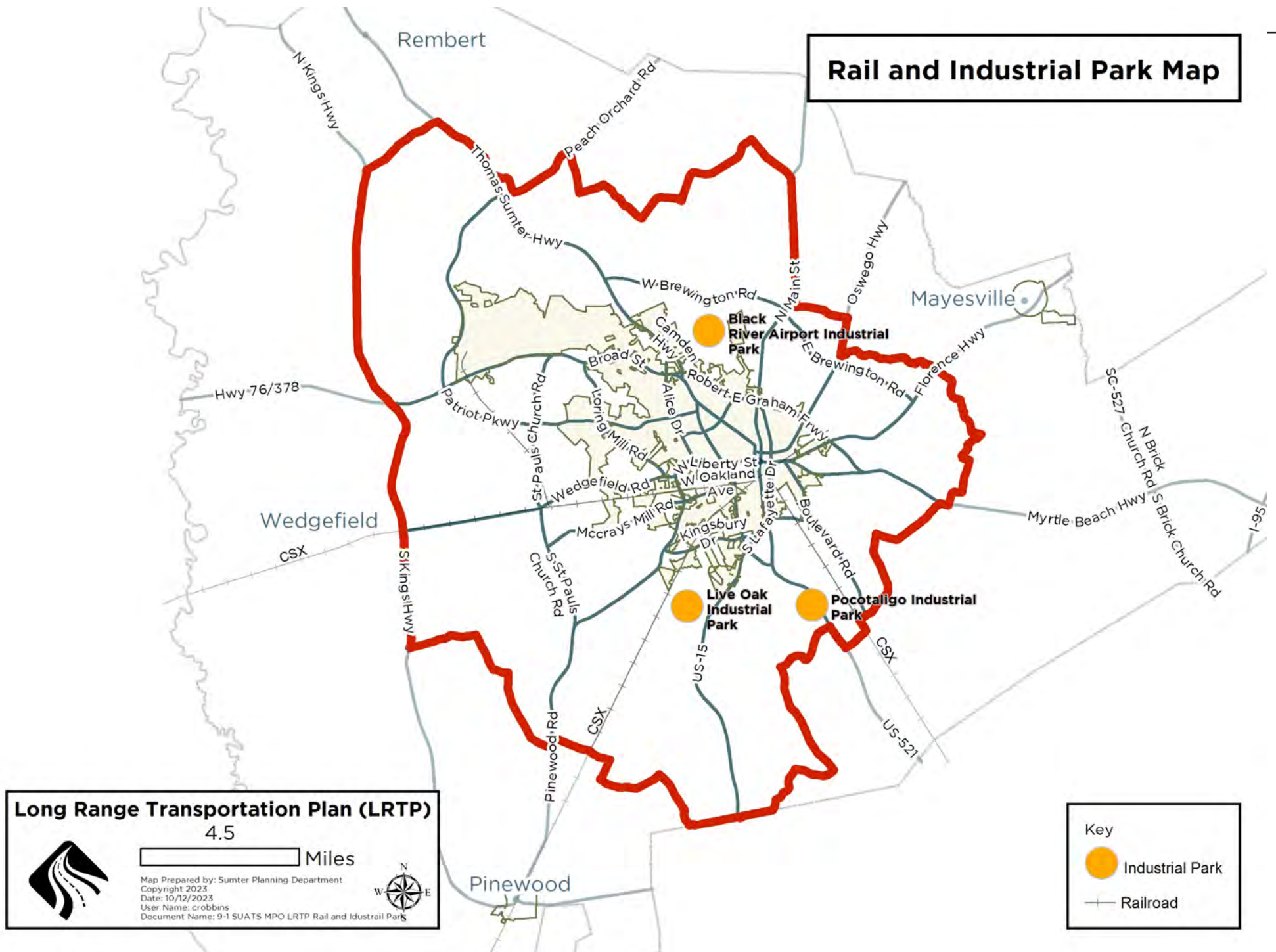
Year	Pilots/Passengers	Design Hour Peak (pilots/passengers per hour)	Design Day Peak (pilots/Passengers per day)
2001	36,496	-	-
2006	47,313	73	362
2011	56,571	87	432
2016	68,086	105	521

Source: Sumter Airport Layout Plan


SHAW AIR FORCE BASE (SHAW AFB)

Though not in use by the general public, the air facilities at Shaw AFB provide a major air terminal for personnel and supplies. Planning for enhanced air facilities at Shaw AFB is the responsibility of the Department of Defense.

Rail and Industrial Park Map




Freight Network Map



Long Range Transportation Plan (LRTP)
 4.5
 Miles

Map Prepared by: Sumter Planning Department
 Copyright 2023
 Date: 10/12/2023
 User Name: crobbins
 Document Name: 9-2 SUATS MPO LRTP Freight



Key

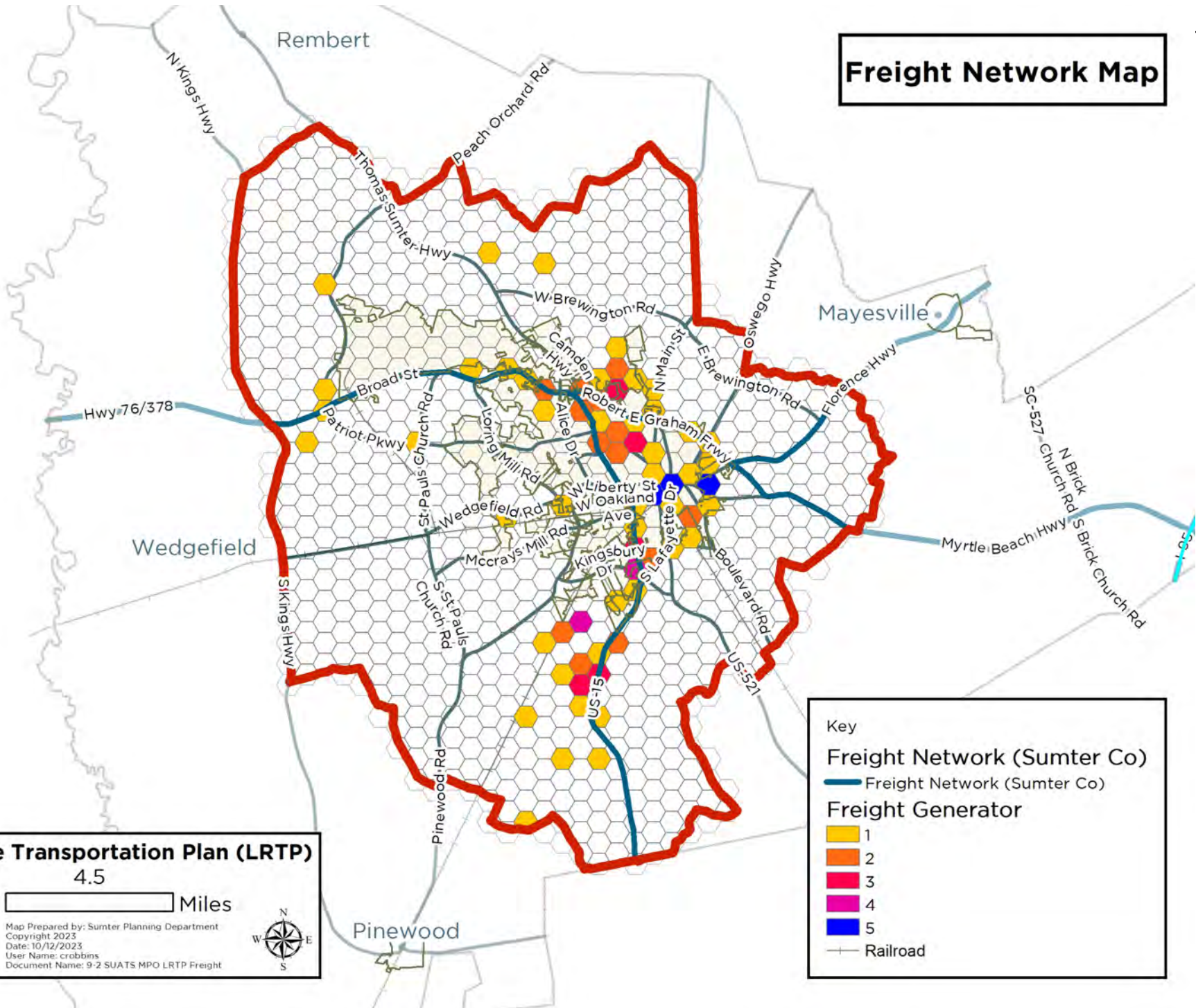
Freight Network (Sumter Co)

— Freight Network (Sumter Co)

Freight Generator

- 1
- 2
- 3
- 4
- 5

— Railroad



SUMTER MUNICIPAL AIRPORT REPORT CARD

Table 10.8- Sumter Municipal Airport (SMS) Airport Report Card

Actions Needed to Meet Facility and Service Objectives (with Associated Project Costs)					
	Actual	Minimum Objective	Compliant?	Action Needed to Meet Objective	Estimated Cost
Runway Length	5,501 ft	5,000 ft	Yes	-	-
Runway Width	100 ft	75 ft	Yes	-	-
Taxiway	Full Parallel	Full Parallel	Yes	-	-
Runway Lighting	MIRL	MIRL	Yes	-	-
Taxiway Lighting	MITL	MITL	Yes	-	-
Primary Runway PCI	78	70 or greater	Yes	-	-
Approach Type	IS	RNAV (GPS) LPV	Yes	-	-
Navigational Aids					
- VGSI	P2L/P2L	PAPIs or VASIs	Yes	-	-
- REILs	REILs/REILs	REILs	Yes	-	-
Weather Reporting	AWOS-III P/T	ASOS or AWOS	Yes	-	-
Airport Master Plan/ALP	2004	SCAC/FAA approved master plan/ALP within 10 years	No	Update Airport Master Plan	Cost Included in CIP
	Other Actions Needed to Meet Facility and Service Objectives (No Associated Costs)				
Fuel	Jet A and 100 LL	Jet A and 100 LL	Yes		Demand Driven
FBO	Available	Available	Yes		Demand Driven
Ground Transportation	Rental Car Available	On-Site or Prearranged Rental Car	Yes		Demand Driven
Unobstructed Approaches					
- Runway 5	Trees in Approach	Clear Approach	No	Remove Obstruction	TBD
- Runway 23	Trees in Approach	Clear Approach	No	Remove Obstruction	TBD
- Runway 14	Trees in Approach	Clear Approach	No	Remove Obstruction	TBD
- Runway 32	Trees in Approach	Clear Approach	No	Remove Obstruction	TBD
Estimated Project Costs					\$ 0

SUMTER MUNICIPAL AIRPORT REPORT CARD

Table 10.8 - Sumter Municipal Airport (SMS) Report Card (Continued)

Program Year	Pavement Type	Project Description	Estimated Cost
	Major Pavement Rehabilitation Planned 2018-2022		
	No projects currently identified in this category		
		Total	\$ 0
	Capital Improvement Plan (CIP) 2018-2022		
2018	Plans/Studies	Airport Layout Plan (ALP) Update	\$ 180,000
2019	Apron	Airport Reconstruction Phase II (Design)	\$ 237,000
2020	Apron	Apron Reconstruction Phase II (Construction)	\$ 3,633,000
2021	Plans/Studies	Runway Extension Environmental Assessment (EA)	\$ 150,000
2022	Runway	Runway Extension and Runway Strengthening (Design)	\$ 425,000
	Runway	Runway Extension and Runway Strengthening (Construction)	\$ 5,500,000
	Apron	Apron Reconstruction Phase III (Design)	\$ 120,000
Total			\$ 10,245,000
Total Project Costs for Airport			\$ 10,245,000

Report Card from South Carolina Aviation System Plan Update, Prepared by the South Carolina Aeronautics Commission, 2018

A close-up photograph of a hand holding a silver pen, writing on a document. The background is blurred, showing a desk and some papers. The text 'CHAPTER 11' and 'FINANCIAL PLAN' is overlaid on the image in a large, white, sans-serif font.

CHAPTER 11

FINANCIAL PLAN



CHAPTER 11

FINANCIAL PLAN

REVENUE FORECAST

PROJECT COST PROJECTIONS

2021-2027 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

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2030 INTERIM YEAR FISCALLY CONSTRAINED PROJECTS

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2050 VISION YEAR FISCALLY CONSTRAINED PROJECTS

FISCALLY CONSTRAINED PROJECTS MAP

FINANCIAL PLAN

INTRODUCTION

The Infrastructure Investment and Jobs Act (IIJA) (Public Law 117-58) requires development of new policies while providing new direction in transportation.¹ The legislation continues the program established under the FAST Act that a financial plan be completed as part of the LRTP development.

The financial plan shows proposed investments that are realistic in the context of reasonably anticipated future revenues over the life of the plan and for future network years, set for the purpose of the 2050 SUATS LRTP as 2030, 2040, and 2050. Meeting this test is referred to as “financial constraint.”

The 2050 SUATS Long Range Transportation Plan is financially constrained. The mix of transportation recommendations proposed to meet metropolitan transportation needs over the next 27 years is consistent with revenue forecasts. The Financial Plan details both proposed investments toward these recommendations and revenue forecasts over the life of the plan.

The proposed project recommendations were developed in collaboration with the City of Sumter, Sumter County, and SCDOT. These projects include roadway, bicycle and pedestrian facilities, and services for the life of this plan and reflect existing and committed projects, the Transportation Improvement Program (TIP), and the future plans of the MPO, SCDOT, the City of Sumter, Sumter County, and SWRTA.

These recommendations also reflect travel demand benefits and socioeconomic impacts studied using the evaluation process. Finally, these projects are a result of an extensive public participation process, both through public workshops and the SUATS Technical Committee.

Revenue forecasts were developed after a review of previous state and local expenditures, current funding trends, and likely future funding levels. The revenue forecasts involved consultation with SCDOT, the City and County of Sumter, SUATS MPO, and SWRTA. All dollar figures discussed in this section initially were analyzed in current year dollars (i.e. 2023) and then inflated to reflect projected year of funding or implementation. Based

¹ The Infrastructure Investment and Jobs Act (IIJA) (Public Law 117-58) is the current Surface Transportation Legislation establishing funding and policy priorities for the United States. It provides \$550 billion over fiscal years 2022 through 2026 in new Federal investment in infrastructure, including in roads, bridges, and mass transit, water infrastructure, resilience, and broadband.

on current national averages, an annual increase rate of 2.5% was used to forecast revenues as well as expenses.

This chapter provides an overview of revenue assumptions, probable cost estimates, and financial strategies along with the detailed research results used to derive these values. Since this is a planning level funding exercise, all funding programs, projects, and assumptions will have to be re-evaluated in subsequent plan updates.

FINANCIAL PLANNING SCENARIO

The SUATS MPO currently obtains the majority of its funding through federal and state Regional Mobility Program (RMP) funding. This funding amount is determined largely by current and projected regional population and vehicle miles traveled compared to other regions of the state. SCDOT has set a minimum amount of \$5 million that will be provided to each MPO regardless of the amount projected via the VMT/Population formula. As a result, funding levels are not expected to increase substantially over the life of this plan. These funding levels will not be sufficient to implement many of the projects identified as a part of this study, thereby leaving many deficiencies unaddressed across all modes of transportation.

In order to mitigate this funding shortage, alternative funding sources that can be generated using other methods need to be identified. These funding sources will be discussed in greater detail at the end of this chapter.

The financial plan incorporates an assumption that Sumter’s previous “Penny for Progress” capital sales tax, will be re-established in 2024. This program began in 2007 and was reauthorized in 2016 before failing to gain reauthorization in 2022. The initiative is arranged in 7-year cycles. As a means to demonstrate a continued local commitment to support transportation improvements, the 1-cent sales tax is assumed to be re-established in 2024 and renewed in each subsequent 7-year increment to last through the duration of the plan. In order to determine a reasonable expectation for future funding, sales tax renewals were assumed to

Based on current national averages, an annual inflation rate of 2.5% was used to forecast revenues and expenses.

REVENUE FORECAST

remain consistent with the \$100 million in projected funding from the last attempted reauthorization in 2022. Sales tax funds are assumed to increase with inflation at each renewal, with the 7-year lump sum amount increased each cycle based on previous trends.

Following this assumption, the amount of the P4P initiative currently dedicated to transportation projects (20%) is assumed to continue on in future sales tax renewals. Within the sales tax, 80% of funding would be dedicated to highway capital projects and 20% would be dedicated to bicycle and pedestrian funding. This funding split is intended to demonstrate a commitment to non-motorized travel in the SUATS MPO area while allocating the majority of funds to highway capital projects.

It is important to note that the purpose of the 2050 SUATS Long Range Transportation Plan is only to provide a reasonable expectation of future funding. The composition of any future sales tax referendums will be a topic of discussion for the City of Sumter and Sumter County, and will ultimately be decided on by the County's voters.

SYSTEM REVENUES

Table 11.1 displays forecasted revenues for the 2050 SUATS Long Range Transportation Plan, assuming the continuation of current funding levels and reauthorization of the 1-cent sales tax. Funding is divided to reflect 2030 and 2040 interim years and a 2050 final plan year. Roadway capital

projects, roadway maintenance, walk + bike, transit operations, and transit capital are each divided into individual revenue categories.

These tables indicate that using current funding level estimates total projected overall revenue during the planning period would be approximately \$856 million. After considering the estimated costs for all modes, the total cost over the planning period would be approximately \$1.947 billion.

MAINTENANCE FUNDING

Maintenance funding in the SUATS MPO area primarily is used for roadway maintenance and paving of dirt roads, though pedestrian and bicycle facilities also are maintained with these funds. Maintenance currently is funded by C-funds. C-funds come from the state's gas tax. Of the total, 25% goes to city road maintenance, 25% goes to state road maintenance, and 50% goes to the county. The county splits its 50% equally between paving dirt roads and maintenance. This fund generates approximately \$2.8 million annually for Sumter County, an amount that is expected to rise approximately 2.5% on average annually based on previous trends.

SCDOT also uses statewide funding sources for maintenance efforts such as repaving and bridge replacement. SUATS coordinates regularly with SCDOT to determine if maintenance needs are being satisfied exclusive of Regional Mobility Program funding.

Table 11.1 - Long Range Transportation Revenue Forecast

Period	Roadway Capital	Roadway Maintenance	Walk + Bike Capital	Transit Capital	Transit Operations	Totals
2023-2030	\$ 52,191,117	\$ 112,626,401	\$ 13,999,996	\$ 4,368,058	\$ 11,356,951	\$ 194,542,523
2031-2040	\$ 76,247,947	\$ 175,979,419	\$ 19,768,569	\$ 6,825,116	\$ 17,745,303	\$ 296,566,354
2041-2050	\$ 86,747,107	\$ 225,268,534	\$ 21,714,916	\$ 8,736,726	\$ 22,715,488	\$ 365,182,771
Totals	\$ 215,186,170	\$ 513,874,354	\$ 55,483,481	\$ 19,929,900	\$ 51,817,742	\$ 856,291,648

REVENUE FORECAST

HIGHWAY CAPITAL FUNDING

Regional Mobility Program (RMP) funding received through SCDOT is the only forecast-able federal and state capital highway funding available in the SUATS MPO area. A range of intersection improvements and corridor revitalization plans are funded in the 2021-2027 SUATS Transportation Improvement Program (TIP) as shown in Table 11.3. RMP funding is currently set at \$5.0 million. The RMP amount received annually by SCDOT has not historically kept pace with inflation, however a significant increase was implemented by SCDOT in 2023. Given that this increase is the first change to the SUATS fund in nearly 20 years, this plan assumes that amount will be maintained as a static figure throughout the life of the LRTP.

The Penny for Progress (P4P) sales tax was recently used to fund several different highway capital improvements, including intersection improvements, interchange rehabilitation, and sidewalk safety improvements. As described previously, this plan makes the assumption that the P4P initiative will be re-instated via referendum in 2024, with 75% of its transportation category of funds being allocated to roadway capital projects.

WALK + BIKE FUNDING

Table 11.1 reflects the proposed revenues for bicycle and pedestrian projects. In the past, new bicycle and pedestrian facilities in the SUATS MPO area have been funded using the Transportation Enhancement program. Enhancement funds have historically been available from the state annually as a part of TAP and RMP funding sources.

Previous federal legislation combined Enhancement, Recreational Trails, and Safe Routes to School programs and combined them into a new Transportation Alternatives (TA) funding source. For the purposes of this plan, it is assumed that 25% of the Regional Mobility Program and 20% of a renewed penny sales tax would be used toward this category, at a total of \$55.4 million over the life of this plan. This funding level expresses the desire of SUATS to continue to pursue and receive funding for future walk and bike projects.

TRANSIT FUNDING

Table 11.1 includes the projected revenues for transit capital and operations

projects. Annual revenue projections for capital and operations projects were applied based on previous funding cycles and serve as the basis for expected revenue for the SUATS area served by SWRTA. This plan assumes a continued funding level consistent with historical funding for both transit capital and operations projects.

Capital transit funds come from several federal and state sources. Currently, SWRTA receives Federal 5307, 5310, 5311, and State funds. The funding amounts are projected to increase with inflation.

Transit operations funding comes from Federal 5307 grants, State funds, City funds, local cash fares, local contracts, and other local miscellaneous sources. Funding from each of these sources is expected to increase with inflation.

PROJECT COST PROJECTIONS

SYSTEM COSTS

Once the funding levels have been established, the next step is to consider what needs to be filled within the three horizon periods of the plan (2030, 2040, and 2050). To do this, the evaluation matrices shown in Chapter 7 has been consulted. While it would be ideal to implement all projects, only a portion can be accommodated in a fiscally constrained plan.

The following tables and figures divide the projects in the evaluation matrix into 2030, 2040, and 2050 funded horizon years and a vision plan.

Tables 11.5, 11.6, and 11.7, identify projects during each of these three horizons. The maps displayed on pages 198 and 199 show the financially constrained roadway projects.

An annual average inflation of 2.5% and cumulative inflation of 94.78% between the years 2023 and 2050 was applied to projects identified for this L RTP, with an overall assumption that each project would be implemented using 2050 dollars.

SUATS forecasts that the total cost of improvements in the 2050 SUATS L RTP will exceed the projected available revenues.

The projected cost of long-range transportation improvements for the SUATS MPO is \$1.948 billion.

Of this total, \$1.092 billion is expected to remain unfunded through 2050.

Table 11.2 - Long Range Transportation Project Cost Forecast

Period	Roadway Capital	Roadway Maintenance	Walk + Bike Capital	Transit Capital	Transit Operations	Totals
2023-2030	\$ 52,191,117	\$ 112,626,401	\$ 13,999,996	\$ 4,368,058	\$ 11,356,951	\$ 194,542,523
2031-2040	\$ 76,247,947	\$ 175,979,419	\$ 19,768,569	\$ 6,825,116	\$ 17,745,303	\$ 296,566,354
2041-2050	\$ 86,747,107	\$ 225,268,534	\$ 21,714,916	\$ 8,736,726	\$ 22,715,488	\$ 365,182,771
Unfunded Vision	\$ 712,075,629	\$ 223,286,372	\$ 105,646,765	\$ 4,473,053	\$ 46,829,380	\$ 1,092,311,199
Totals	\$ 927,153,800	\$737,160,726	\$ 161,130,246	\$ 24,402,953	\$ 98,647,122	\$1,948,494,847

2024-2033 SUATS TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

**Table 11.3 - Scheduled Roadway Improvement Projects (Corridors & Intersections)
2024-2033 SUATS Transportation Improvement Program**

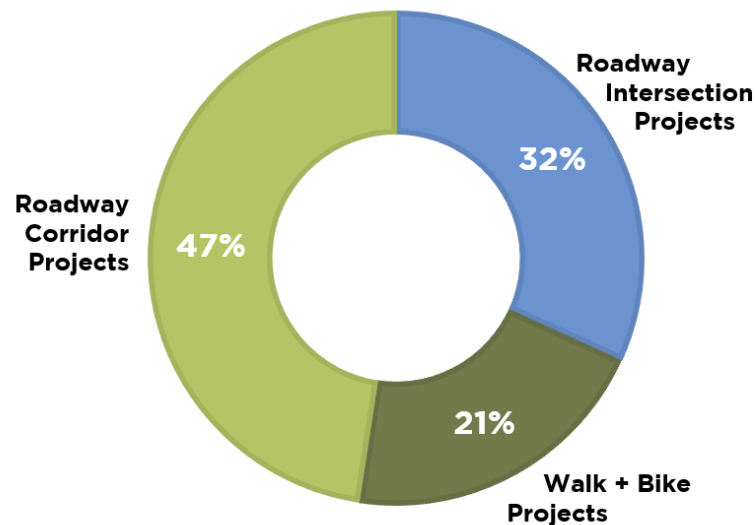
Funding Sources	Project	Project Type	Previous Years	FY2024	FY2025	FY2026	FY2027	Totals
P4P, STBGP, RMP	Manning Avenue Revitalization	Corridor Improvement	\$1,414,000		\$10,713,000			\$12,127,000
P4P, STBGP, RMP	North Main Street Revitalization	Corridor Improvement	\$1,414,000		\$10,619,000			\$12,033,000
RMP	Lafayette Drive Corridor Improvement	Corridor Improvement	\$100,000					\$100,000
RMP	“Connect 378” - US-378 Operational and Design Improvements	Corridor Improvement	\$400,000					\$400,000
RMP	West Liberty Street Road Diet	Corridor Improvement	\$135,000	\$1,500,000	\$2,200,000	\$6,700,000		\$10,535,000
RMP	West Calhoun Street Road Diet	Corridor Improvement		\$50,000	\$400,000			\$450,000
RMP	US-378 @ N. St. Pauls Church Road	Intersection Improvement	\$359,000	\$35,000	\$1,000,000			\$1,394,000
RMP	US-378 @ Loring Mill Road	Intersection Improvement	\$383,000	\$50,000	\$1,700,000			\$2,083,000
RMP	US-378 @ Robert Dinkins Road	Intersection Improvement	\$208,000		\$1,500,000			\$1,708,000
Grand Total								\$40,830,000

ALTERNATIVE FUNDING STRATEGIES

ALLOCATION OF ROADWAY AND WALK + BIKE CAPITAL FUNDING

Because the sources of funding for roadway and walk+bike projects are anticipated to come from two primary sources (SUATS Regional Mobility Program and a possible Local Option Sales Tax), it is necessary to establish percentage allocations for each project category. During the planning horizon of this LRTP, the expected division of funds in these categories is expected to be as follows: 31.8% for Roadway Intersection Projects, 20.6% for Walk+Bike Projects, and 47.6% for Roadway Corridor Projects.

Figure 11.4 - Expected Allocation Percentages for Roadway and Walk+Bike Capital Project Categories



ALTERNATIVE FUNDING STRATEGIES

The total projected cost for all long-range transportation projects (excluding roadway maintenance) within the SUATS MPO area is approximately \$1.210 billion. Of this total, approximately \$868 million is expected to remain unfunded through the 2050 horizon year. Significant unmet transportation needs also exist across the board. As a result, it is important to identify potential funding sources for these projects as well as for projects from other modes.

Existing revenues alone will not sufficiently fund a complete program of infrastructure maintenance and construction of desired improvements in the SUATS MPO. Therefore, SUATS must consider alternative funding measures that could allow for the implementation of this plan.

One alternative funding measure, a 1-cent sales tax, has already been implemented and has been found to produce dramatic results. Several alternative funding measures under consideration in other areas follow.

IMPACT FEES

Developer impact fees and system development charges provide another funding option for communities looking for ways to fund collector streets and associated infrastructure. They are most commonly used for water and wastewater system connections or police and fire protection services, but recently they have been used to fund school systems and pay for the impacts of increased traffic on existing roads. Impact fees place the costs of new development directly on developers and indirectly on those who buy property in the new developments. Impact fees free other taxpayers from the obligation to fund costly new public services that do not directly benefit them. A growing number of communities in South Carolina have approved the use of impact fees. The use of impact fees requires special authorization by the General Assembly.

TRANSPORTATION BONDS

Transportation bonds have been instrumental in the strategic implementation of local roadways and non-motorized travel throughout South Carolina. Voters in communities both large and small regularly approve the use of bonds in order to improve their transportation system. Projects that historically have been funded through transportation bonds include sidewalks, road extensions, new road construction, and streetscape enhancements. While bonds are not necessarily a new source of revenue, they do allow mitigation of the impacts of inflation by pushing forward the timeline for improvements.

DEVELOPER CONTRIBUTIONS

Through diligent planning and earlier project identification, regulations and policies can be developed to require capital contributions from developers

when property is developed. These measures would reduce the cost of right-of-way and could require developers to make improvements to account for the additional demand and wear on the network.

OVERSIZE AGREEMENT

An oversize agreement provides cost sharing between the city/county and a developer to compensate a developer for constructing a collector street instead of a local street. For example, instead of a developer constructing a 22-foot wide local street, additional funding would be provided by the locality to upgrade the particular cross-section to a 34-foot back-to-back cross section to accommodate additional space for bike facilities and/or on-street parking.

BICYCLE AND PEDESTRIAN FUNDING

Bicycle and pedestrian projects are often eligible for their own funding sources. For instance, the Robert Wood Johnson foundation funds a grant program called Active Living by Design. The purpose of this program is to provide communities with a small grant to study bicycle, pedestrian, or other healthy living initiatives. There are other such grant programs in existence for bicycle and pedestrian projects, which would help to supplement the funding currently received by these modes.

DISCRETIONARY FEDERAL TRANSPORTATION PROGRAM

The *Infrastructure Investment and Jobs Act (IIJA)*, which funds federal transportation investment from FY2022 to FY2026, creates over \$150 billion worth of discretionary grant programs available directly to local jurisdictions, providing an extraordinary opportunity for SUATS to obtain these new funds for projects that will advance the safety, equity, and climate goals outlined in the IIJA.

Selected examples of the discretionary programs available under the IIJA that SUATS may leverage include:

Program Name	Description	National Funding Levels
INFRA	The Nationally Significant Multimodal Freight and Highway Improvement Program (INFRA) awards competitive grants for multimodal freight and highway projects of national or regional significance to improve the safety, efficiency, and reliability of the movement of freight and people in and across rural and urban areas.	\$ 8.0 Billion
RAISE (Formerly BUILD/ TIGER)	The Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Transportation Discretionary Grant program provides a unique opportunity for investment in road, rail, transit and port projects that promise to achieve national objectives.	\$7.5 Billion
SS4A	The Safe Streets and Roads for All (SS4A) program supports USDOT’s National Roadway Safety Strategy and the goal of zero roadway deaths.	\$6.0 Billion

2030 INTERIM YEAR

Table 11.5 - Improvement Projects for 2030 Interim Year

Project ID	Project	Project Extents	Length (mi)	Project Cost Estimate
Roadway Corridors				
S-5	Broad St. Safety Improvements	Miller Rd. to Warren St.	1.22	\$ 4,733,600
S-6	Camden Hwy. Safety Improvements	Broad St. to Mason Rd.	1.91	\$ 7,410,800
S-8	N/S Guignard Dr. Safety Improvements	Miller Rd. to McCray's Mill Rd.	1.80	\$ 6,984,000
RD-3	E. Liberty St. Road Diet	N/S. Harvin St. to Boulevard Rd.	0.58	\$ 3,375,600
S-4	Broad St. Safety Improvements	Alice Dr. to Miller Rd.	2.11	\$ 8,186,800
Roadway Intersections				
IS-4	N. Guignard Dr. @ W. Liberty St. Intersection	N. Guignard Dr. @ W. Liberty St.	N/A	\$ 6,790,000
IS-19	US-378 @ US-521 Intersection	US-378 @ US-521	N/A	\$ 4,850,000
IS-3	Miller Rd. @ N. Guignard Dr. Intersection	Miller Rd. @ N. Guignard Dr.	N/A	\$ 4,850,000
Walk+Bike Corridor Improvements				
G-3	Lafayette Drive Greenway	Crosswell Drive Park to James St.	1.78	\$ 2,071,611
SW-3	Miller Rd. Sidewalk (North Side)	Broad St. to Oxford St	0.48	\$ 438,236
SW-4	Miller Rd. Sidewalk (West Side)	Broad St to Andrena Dr	0.49	\$ 454,118
G-21	North Lafayette Drive Sidepath	Sumter PD to Crosswell Dr	0.37	\$ 428,123
G-11	West Liberty Street Cycle Track	S Sumter St to Alice Dr	1.89	\$ 9,163,561
SW-2	N. Guignard Drive Sidewalk Widening	Community St to W Calhoun St	0.41	\$ 381,515
SW-7	N. Wise Drive Sidewalk	Broad St to N Pike West	0.51	\$ 471,222
Walk+Bike Intersection Improvements				
P-11	Alice Drive at Broad Street	Alice Dr at Broad St	N/A	\$291,000
P-24	CCTC	N. Guignard Dr. at CCTC	N/A	\$194,000
P-10	McCray's Mill Rd at S. Guignard Drive	McCray's Mill Rd. at S. Guignard Dr.	N/A	\$291,000
P-1	Willow Drive Elementary	Broad St. at Willow Dr. Elementary	N/A	\$194,000

2040 HORIZON YEAR

Table 11.6 - Improvement Projects for 2040 Horizon Year

Project ID	Project	Project Extents	Length (mi)	Project Cost Estimate
Roadway Corridors				
S-12	N/S. Lafayette Dr. Safety Improvements	Loring Dr. to Divine St.	0.82	\$ 3,181,600
O-2	Bultman Dr./N. Guignard Dr. Operational Improvements	Broad St. to Miller Rd.	0.87	\$ 6,751,200
RD-5	W. Liberty St. Road Diet	N/S. Sumter St. to Alice Dr.	1.78	\$ 10,359,600
RD-1	N/S. Washington St. Road Diet	Warren St. to Dingle St.	0.84	\$ 4,888,800
RD-6	E/W. Calhoun St. Road Diet	N. Washington St. to Commerce St.	0.71	\$ 4,132,200
S-2	Broad St. Safety Improvements	N. Saint Paul's Church Rd. to Stamey Livestock Rd.	1.85	\$ 7,178,000
S-3	Broad St. Safety Improvements	Stamey Livestock Rd. to Alice Dr.	1.57	\$ 6,091,600
RD-4	N/S. Harvin St. Road Diet	E. Calhoun St. to CSX Railroad Track	0.65	\$ 3,783,000
Roadway Intersections				
IS-2	Broad St. @ Alice Dr. Intersection	Broad St. @ Alice Dr.	N/A	\$ 6,790,000
IS-10	E. Liberty St. @ S. Lafayette Dr. Intersection	E. Liberty St. @ S. Lafayette Dr.	N/A	\$ 4,850,000
IS-11	Broad St. @ Wilson Hall Rd. Intersection	Broad St. @ Wilson Hall Rd.	N/A	\$ 4,850,000
IO-8	US-521 @ Mason Rd. Intersection	US-521 @ Mason Rd.	N/A	\$ 6,790,000
IS-6	Broad St. @ Miller Rd. Intersection	Broad St. @ Miller Rd.	N/A	\$ 4,850,000
Walk+Bike Corridor Improvements				
G-17	Camden Highway Sidepath	Market St to Mason Rd	1.87	\$2,181,618
SW-25	E Wesmark Blvd Sidewalk	Broad St to S Pike West	0.41	\$381,166
G-19	Pocalla Road Sidepath	Cockerill Rd to Kingsbury Dr	2.00	\$2,325,575
SW-5	N Pike West Sidewalk	Porter St to N Main St	0.45	\$418,340
G-16	Terry/Mason Road Sidepath	Carter Rd to Camden Hwy	1.77	\$2,058,164
G-15	Patriot Parkway Sidepath	Lisbon Dr to Shaw AFB Main Gate	4.24	\$4,940,386
SW-8	Wise Drive	Broad St to Bultman Dr	0.15	\$136,654
SW-12	E Fulton St Sidewalk	Missouri St to Silver St	0.42	\$386,751
SW-24	Gion Street Sidewalk	Alice Dr to Broad St	0.62	\$573,843

2040 HORIZON YEAR

Table 11.6 - Improvement Projects for 2040 Horizon Year

Project ID	Project	Project Extents	Length (mi)	Project Cost Estimate
Walk+Bike Intersection Improvements				
P-12	Loring Mill Rd at Wise Drive	Loring Mill Rd at Wise Dr.	N/A	\$291,000
P-8	Downtown Library	N. Harvin St. at Sumter County Library	N/A	\$97,000
P-14	Sumter Economic Development HQ	W. Liberty St. at Sumter Econ. Dev.	N/A	\$145,500
P-22	N Wise Drive	N. Wise Dr. at Wise Dr. Bridge	N/A	\$194,000
P-2	Alice Drive Elementary	Alice Dr. at Alice Dr. Elementary	N/A	\$194,000

2050 VISION YEAR

Table 11.7 - Improvement Projects for 2050 Vision Year

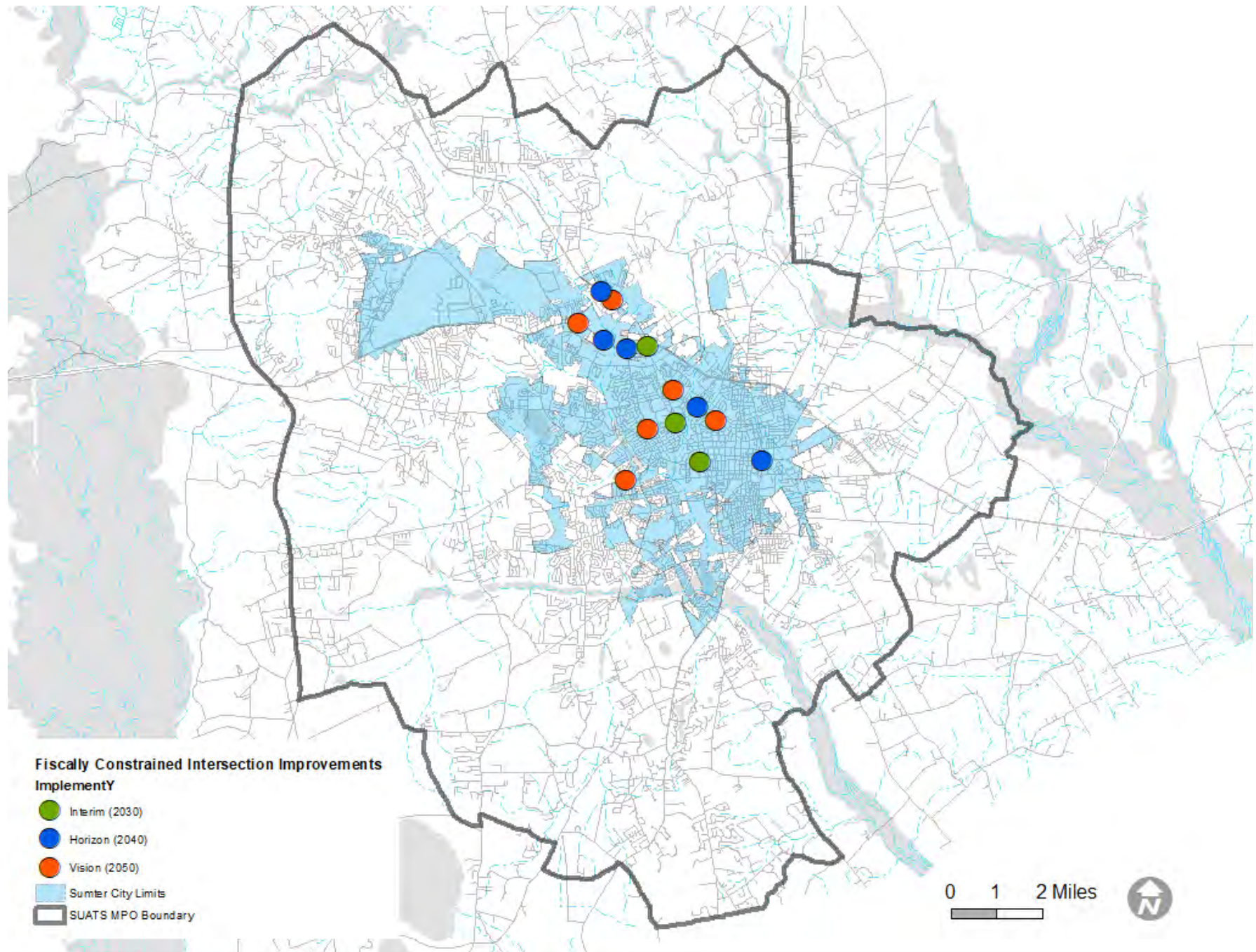
Project ID	Project	Project Extents	Length (mi)	Project Cost Estimate
Roadway Corridors				
S-13	Manning Ave. Safety Improvements	US-15 to Divine St.	1.19	\$ 4,617,200
S-7	N. Main St. Safety Improvements	N. Pike Rd. to E. Brewington Rd.	2.74	\$ 10,631,200
O-7	Alice Dr. Operational Improvements	Broad St. to Wise Dr.	1.23	\$ 9,544,800
S-9	Robert E. Graham Freeway Safety Improvements	Broad St. to N. Main St.	2.58	\$ 10,010,400
S-10	W. Calhoun St. Safety Improvements	N. Washington St. to N. Guignard Dr.	1.06	\$ 4,112,800
S-11	N. Main St. Safety Improvements	US-15 to W. Calhoun St.	1.34	\$ 5,199,200
S-1	Broad St. Safety Improvements	SC-441 to N. Saint Paul's Church Rd.	3.26	\$ 12,648,800
Roadway Intersections				
IS-22	Broad St. @ Wise Dr.	Broad St. @ Wise Dr. Intersection	N/A	\$ 4,850,000
IS-5	Broad St. @ N. Purdy St.	Broad St. @ N. Purdy St. Intersection	N/A	\$ 4,850,000
IO-4	Broad St. @ Mason Rd.	Broad St. @ Mason Rd. Intersection	N/A	\$ 9,700,000
IO-7	US-521 @ Beckwood Rd.	US-521 @ Beckwood Rd. Intersection	N/A	\$ 6,790,000
IS-23	Alice Dr. @ Miller Rd.	Alice Dr. @ Miller Rd. Intersection	N/A	\$ 4,850,000
IS-13	Wedgfield Rd. @ Loring Mill Rd.	Wedgfield Rd. @ Loring Mill Rd. Intersection	N/A	\$ 4,850,000
Walk+Bike Corridor Improvements				
G-2	Turkey Creek Greenway	Crosswell Drive Park to Manhattan Ave	3.85	\$18,689,953
G-18	Manning Road/US-521 Sidepath	Aull St to Pocalla Rd	3.23	\$3,763,600
SW-32	Carolina Ave Sidewalk	Broad St to S Pike West	0.84	\$776,643
SW-36	Mitchell Street Sidewalk	N Lafayette Dr to N Main St	0.12	\$107,334
SW-6	N Pike West Sidewalk	Clara Louise Kellogg Dr to N Wise Dr	0.37	\$342,421
SW-14	Boulevard Rd Sidewalk	E Red Bay Rd to Fleming St	0.78	\$715,733
SW-19	W Calhoun Street Sidewalk	Winn St to N Guignard Dr	0.23	\$207,687
SW-20	Calhoun Drive Sidewalk	W Liberty St to N Guignard Dr	0.36	\$330,379

2050 VISION YEAR

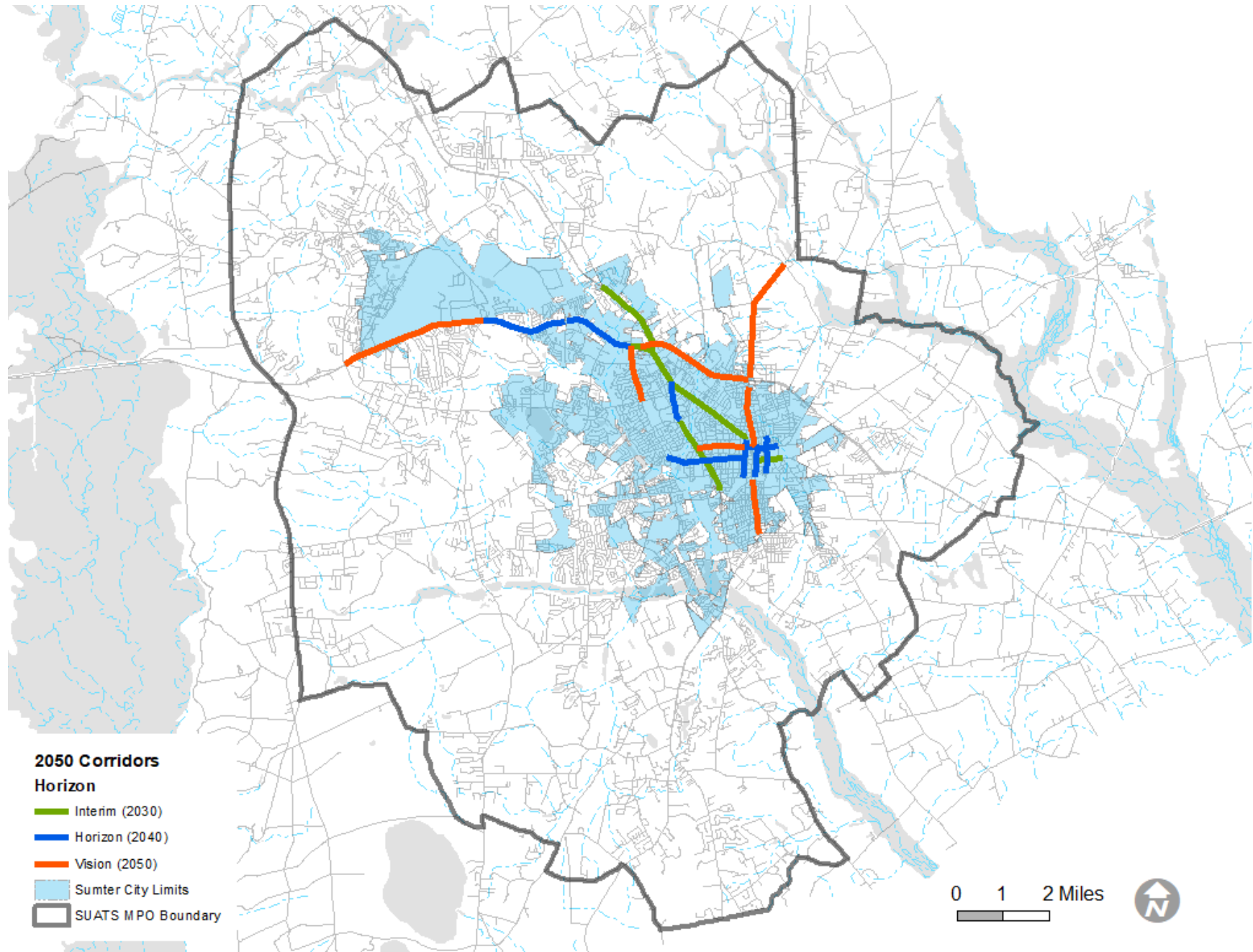
Table 11.7 - Improvement Projects for 2050 Vision Year

Project ID	Project	Project Extents	Length (mi)	Project Cost Estimate
Walk+Bike Intersection Improvements				
P-15	Liberty Center	W. Liberty St. at Liberty Center	N/A	\$145,500
P-21	N Washington St	N. Washington St. at Hospital	N/A	\$194,000
P-20	JMBC Church	Manning Ave. at JMBC	N/A	\$145,500
P-17	Patriot Park	Patriot Pkwy at Patriot Park Entrance	N/A	\$194,000

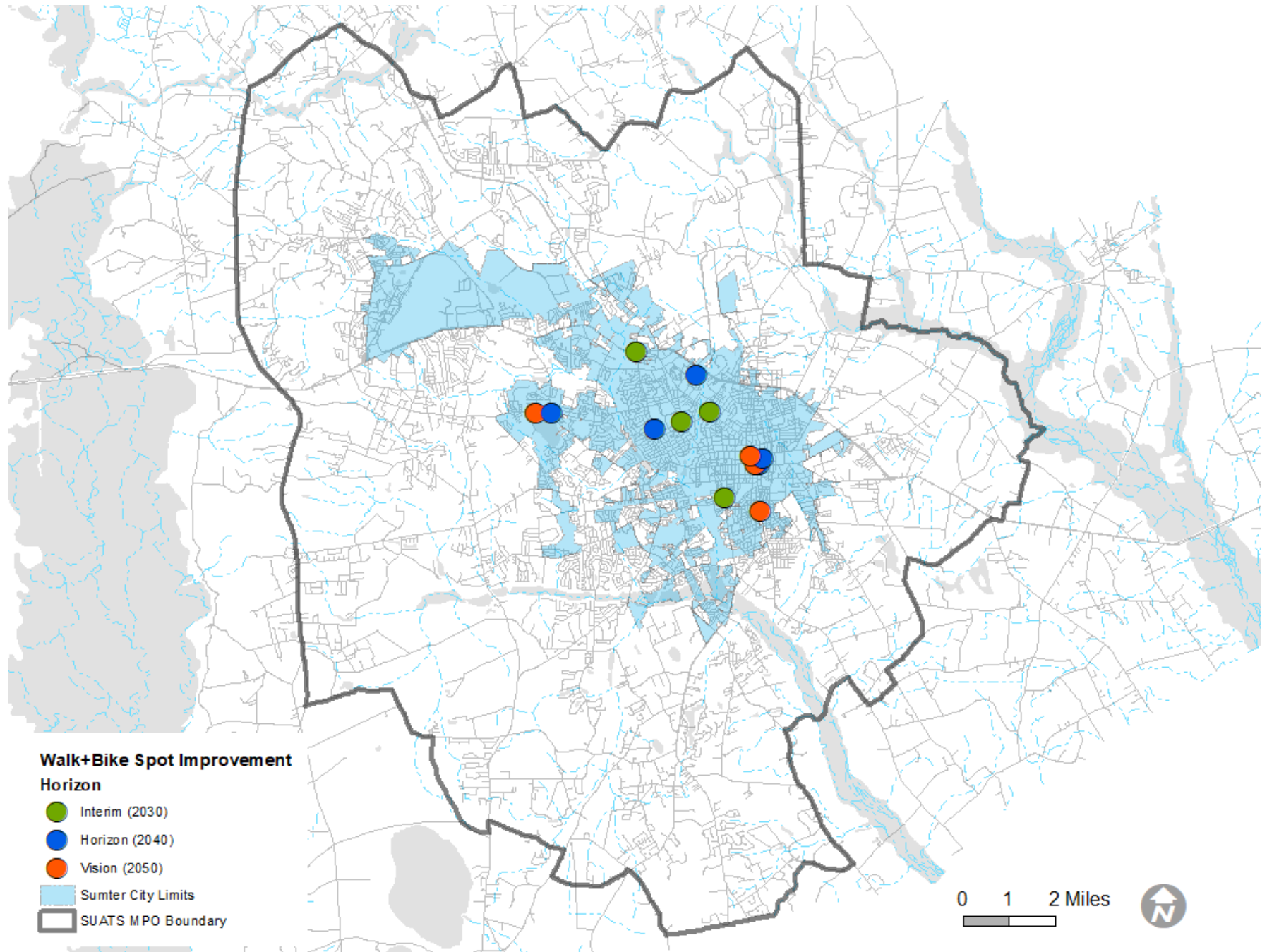
FINANCIALLY CONSTRAINED ROADWAY INTERSECTIONS MAP



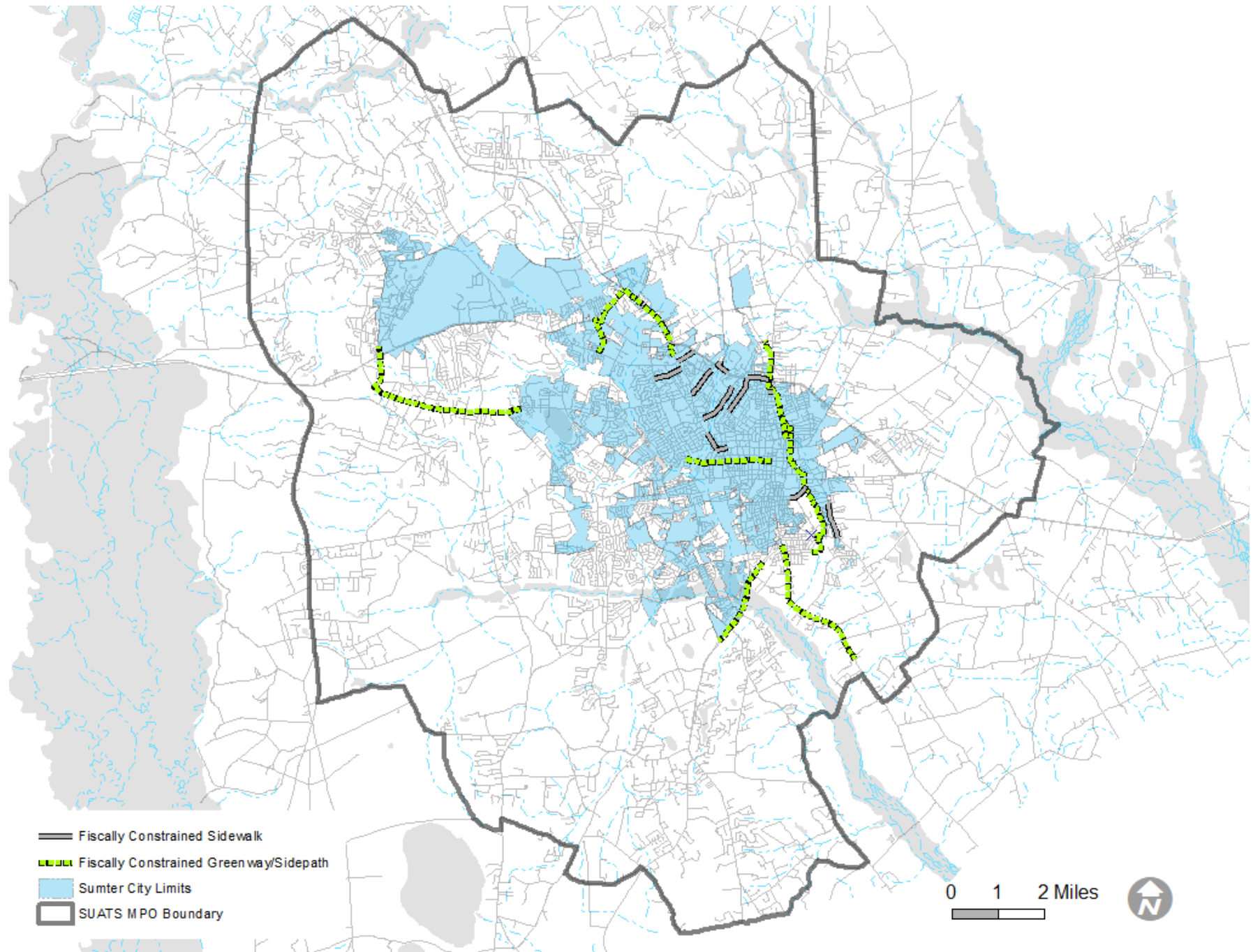
FINANCIALLY CONSTRAINED ROADWAY CORRIDORS MAP



FINANCIALLY CONSTRAINED WALK + BIKE INTERSECTIONS MAP



FINANCIALLY CONSTRAINED WALK + BIKE CORRIDORS MAP





CHAPTER 12

IMPLEMENTATION PLAN



CHAPTER 12

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INTRODUCTION

INTRODUCTION

Taking action on the many recommendations in the SUATS 2050 LRTP requires attention to several factors, not the least of which is the ability to secure funding. The Sumter area has risen to the challenge of diminishing state and federal revenues in recent years through the use of the Penny for Progress sales tax. Leaders continue to face the challenge of allocating appropriate levels of funding to the highest priority projects. The need also exists to identify cost-effective projects that provide additional safety improvements or protect specific corridors through enhanced access management strategies.

Given the scarcity of federal dollars coming to the region and the anticipated population and employment growth, we can expect the quality of the SUATS transportation system to diminish without continued support from alternative funding sources. Renewal of the 1-cent sales tax along with innovative financing strategies like transportation bonds, developer impact fees, vehicle registration fees, or a combination thereof will be needed over the next decade to maintain the quality of life and economic vitality of the region.

To adopt and implement the plan, the SUATS Policy Committee will work proactively with stakeholders, including:

- SCDOT
- Sumter County Legislative Delegation
- City of Sumter
- Sumter County
- Santee Wateree Regional Transportation Authority
- Shaw Air Force Base
- Private Industry
- Santee Lynches Regional Council of Governments
- Residents and Businesses

The SUATS 2050 LRTP represents an important step toward implementing multimodal improvements that affect travel safety, mobility, development patterns, and the aesthetics of the Sumter region. Some of the recommended improvements will be implemented through the development review process. Major infrastructure improvements most likely will be a product of state and federal funding. Continued funding through a 1-cent sales tax renewal could be put toward spot improvements or as matching funds for major infrastructure needs.

During development of this study a number of transportation and land development issues were raised by citizens, including frustration over delays in getting transportation improvements completed. Based on recent history, the planning, design, and construction of publicly-funded transportation projects in SUATS has taken years longer than originally scheduled. Local, state, and private partnerships offer strategic advantages to implementing improvements in a timely manner. The implementation plan recognizes each challenge and suggests strategies to address them. General recommendations and actions strategies follow to help the SUATS MPO area achieve its goals.



RESPONSIBLE AGENCIES

To successfully implement this plan, responsible agencies with influence and authority to enact recommendations must work independently and collaboratively to bring about change. Policy and program initiatives, for the most part, will occur at the local level, with City and County Councils setting policy for their respective jurisdictions. Some of the proposed transportation improvements will encompass right-of-way owned by different public or private agencies, and some improvements will occur as a result of development and redevelopment opportunities. However, the majority of responsibility for implementing the roadway recommendations will require a coordinated effort between SCDOT and SUATS.

Sumter is fortunate that the "Team Sumter" approach that has been used to great success. The City, County, and various other topic-specific partners, have been able to achieve results beyond any one entity's individual capability. SUATS likewise benefits from this "Team Sumter" approach, as - in contrast to many other MPOs - there is one municipality and one county that must come to agreement on project selection and policy implementation.

GENERAL ACTION ITEMS

The following action items list appropriate steps for local leaders to implement the recommendations of this plan and key agencies that should be involved with the task. Some tasks are recommended to be initiated during the first 2 - 4 years following adoption of the LRTP to take advantage of momentum gained during the planning process. While all listed items are not expected to be completed within this time frame, the process should be initiated.

Item No.	Action Plan Item	LRTP Category	Type of Action	Group
1	Request inclusion of high-priority projects in the next update of the State's Transportation Improvement Program (STIP)	General	Carry out a specific planning function	Coordination with SCDOT
2	Create a standing citizen committee that will encourage and educate the public as well as seek to aid in the implementation of this plan.	General	Carry out a specific planning function	Partnerships & coordination with community stakeholders
3	Develop and implement traffic calming standards for existing neighborhoods based on observed and/or anticipated impacts from new development.	General	Conduct a new study/ planning effort	Regional (SUATS) policy, regulatory change, or study
4	Adopt access management policies for arterials and major collectors following best practices for safety and mobility	General	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study
5	As physical infrastructure improvements are made, avoid and/or minimize impacts to environmentally sensitive areas to preserve the natural environment.	General	General aspiration	Miscellaneous
6	When applicable, request SCDOT include pedestrian and bicycle facilities in all SCDOT-initiated projects within the SUATS MPO jurisdiction.	General	Change a process or regulation	Coordination with SCDOT
7	Conduct comprehensive re-evaluation and rightsizing of designated roadway functional classifications within the MPO Study Area.	General	Conduct a new study/ planning effort	Regional (SUATS) policy, regulatory change, or study
8	Secure funding to create aesthetic gateways (at key locations along major routes) that invite and welcome citizens and visitors to the SUATS region.	General	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements
9	Develop a City of Sumter access management policy for arterials and major collector streets following best practices for safety and mobility	General	Carry out a specific planning function	Regional (SUATS) policy, regulatory change, or study
10	Develop a Sumter County access management policies for arterials and major collector streets following best practices for safety and mobility	General	Carry out a specific planning function	Regional (SUATS) policy, regulatory change, or study
11	Promote re-introduction of the Penny for Progress sales tax via voter referendum at the next opportunity in 2024.	General	General aspiration	Secure/advocate for new funding

POLICY ACTION ITEMS

12	Adopt an MPO “Complete Streets” policy that establishes the need to accommodate bicycle, pedestrian, and transit safety and mobility as well vehicular needs to encourage a well-balanced transportation system.	Policy	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study
13	Amend County Ordinances to require that subdivisions larger than 30 units include at least 2 separate points of access from a public street and at least one stub-out street to extend and connect with future streets (where geographically applicable).	Policy	Change a process or regulation	Sumter County policy or regulatory change
14	Amend City Ordinances to require that subdivisions larger than 30 units include at least 2 separate points of access from a public street and at least one stub-out street to extend and connect with future streets (where geographically applicable).	Policy	Change a process or regulation	City of Sumter policy or regulatory change
15	Create a Broad Street Corridor Overlay District within the City of Sumter’s Zoning Ordinance. Items addressed in the Overlay District would include street signage control, streetscape elements, landscaping, access and cross access, parking, and building orientation and frontage.	Policy	Conduct a new study/ planning effort	City of Sumter policy or regulatory change
16	Create a Liberty Street Corridor Overlay District within the City of Sumter’s Zoning Ordinance that will implement the intent of this plan. Items that should be addressed in the Overlay District include street signage control, streetscape elements, landscaping, access and cross access, parking, and building orientation and frontage.	Policy	Conduct a new study/ planning effort	City of Sumter policy or regulatory change
17	Revise City street width and right-of-way requirements included in existing ordinances to match current best practices for complete street roadway design	Policy	Change a process or regulation	City of Sumter policy or regulatory change
18	Revise County street width and right-of-way requirements included in existing ordinances to match current best practices for complete street roadway design	Policy	Change a process or regulation	Sumter County policy or regulatory change

STREET IMPROVEMENT ACTION ITEMS

19	Program funds for implementation of 2 improvements to priority locations based on 5-year crash statistics with "spot safety funds" from SCDOT district office	Street improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements
20	Work with SCDOT to complete the projects in the current TIP, prioritizing projects that are behind schedule.	Street improvement	Carry out a specific planning function	Coordination with SCDOT
21	Commit full allocation of Regional Mobility Program funds to facilitate completion of high-priority improvements.	Street improvement	Carry out a specific planning function	Secure/advocate for new funding
22	Complete 100% of the transportation projects funded via the 2016 Penny for Progress program.	Street improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements
23	Work with SCDOT and available local funding sources to obtain planning, engineering, and construction funds for the Interim Year (2030) fiscally constrained projects identified in the LRTP Financial Plan Chapter.	Street improvement	Implement specific recommendation from a specific adopted plan	Coordination with SCDOT
24	Pursue Transportation Alternatives Program (TAP) funding to implement the walk+bike projects included in the 2050 LRTP financial plan.	Street improvement	Carry out a specific planning function	Coordination with SCDOT
25	Work with SCDOT officials and available local funding sources to pursue and schedule funding for projects identified in the Vision Year (2040) identified in the Financial Plan Chapter.	Street improvement	Implement specific recommendation from a specific adopted plan	Coordination with SCDOT

BIKE AND PEDESTRIAN IMPROVEMENT ACTION ITEMS

26	Pursue federal funding to fill gaps in the sidewalk network by constructing connections between existing sidewalks and high traffic pedestrian areas.	Bike & pedestrian improvement	Carry out a specific planning function	Secure/advocate for new funding
27	Adopt a policy that all new collector and arterial streets provide full facilities for bicycles and pedestrians.	Bike & pedestrian improvement	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study
28	Pursue funding to complete high-priority bicycle projects consistent with recommendations in the Walk + Bike Chapter.	Bike & pedestrian improvement	Carry out a specific planning function	Secure/advocate for new funding
29	Establish an educational program for bicyclists to understand rules of the road and how to use the local bike network	Bike & pedestrian improvement	Start a new program	Partnerships & coordination with community stakeholders
30	Conduct self-assessment of Sumter's bicycle friendliness using the the League of American Bicyclists Bicycle Friendly Community Application Criteria	Bike & pedestrian improvement	Start a new program	Miscellaneous
31	Establish a partnership with local law enforcement officials to ensure laws and regulations pertaining to motorist, cyclist, and pedestrian safety are properly and consistently enforced across the region	Bike & pedestrian improvement	Start a new program	Partnerships & coordination with community stakeholders
32	Program funds for installation of 5 new bicycle parking facilities at key destinations throughout the region over the next year.	Bike & pedestrian improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements
33	Establish partnership program with local schools to better promote walking and biking in the community, including establishment of a Safe Routes to School program, National Walk to School day, and other school-based safety education, outreach, and engagement programs	Bike & pedestrian improvement	Start a new program	Partnerships & coordination with community stakeholders
34	Develop public services announcements to encourage a healthy community through enhanced cycling and walking.	Bike & pedestrian improvement	Miscellaneous	Partnerships & coordination with community stakeholders
35	Establish a Sidewalk Improvement Policy to identify and provide dedicated funding for projects to repair damaged sidewalks, fill sidewalk gaps, and upgrade sidewalks and intersections to meet current ADA standards.	Bike & pedestrian improvement	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study
36	Commission a comprehensive sidewalk condition inventory update at least every 5 years to help establish priorities for funding sidewalk improvements.	Bike & pedestrian improvement	Conduct a new study/ planning effort	Regional (SUATS) policy, regulatory change, or study

BIKE AND PEDESTRIAN IMPROVEMENT ACTION ITEMS

37	Establish a Marked Crosswalk Policy to provide for the consistent application of treatment systems at signalized and non-signalized intersections and at mid-block crosswalks to ensure that marked crosswalks are of a consistent quality on all local, collector, and arterial roadways	Bike & pedestrian improvement	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study
38	Create a Sidewalk and Bike Facility Fee-In-Lieu Policy to provide the option for residential and commercial developers to either construct sidewalk and/or bicycle facilities along the right-of-way as part of their development or to pay a fee for future construction of sidewalk segments.	Bike & pedestrian improvement	Start a new program	Regional (SUATS) policy, regulatory change, or study
39	Establish a SUATS bikeshare program, comprised of rentable docked or dock-less bikes and/or scooters strategically positioned around the region and managed either by a 3rd party contractor or a not-for-profit partner.	Bike & pedestrian improvement	Start a new program	Construct, install, or deliver specific physical improvements
40	Revise City Ordinance to increase minimum sidewalk size to at least 5 ft. width with a 5-foot vegetative buffer from the street in residential areas, and at least 10 ft. width in retail centers and the central business district.	Bike & pedestrian improvement	Change a process or regulation	Regional (SUATS) policy, regulatory change, or study
41	Revise County Ordinance to increase minimum sidewalk size to at least 5 ft. width with a 5-foot vegetative buffer from the street in residential areas.	Bike & pedestrian improvement	Change a process or regulation	Regional (SUATS) policy, regulatory change, or study

TRANSIT IMPROVEMENT ACTION ITEMS

42	Advocate to SWRTA for the improvements to existing fixed route service outlined in the 2019 Santee-Lynches Regional Transit Needs Assessment + Framework Plan that are noted in the Transit Chapter of this document.	Transit improvement	Implement specific recommendation from a specific adopted plan	Coordination with SWRTA
43	Secure funding for a transfer hub as a secondary transfer point within the SWRTA network	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA
44	Secure funding and provide technical support for study to create a unique name and brand for Sumter's Fixed-Route Transit Network.	Transit improvement	Carry out a specific planning function	Coordination with SWRTA
45	Advocate to SWRTA for establishment of new fixed route service as outlined in the 2019 Santee-Lynches Regional Transit Needs Assessment+ Framework Plan that are noted in the Transit Chapter of this document.	Transit improvement	Implement specific recommendation from a specific adopted plan	Coordination with SWRTA
46	Conduct an analysis to prioritize SWRTA stops for new signage and shelters and commit funding to stop enhancements	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA
47	Work with SWRTA to establish a coordinated transit marketing and advertising strategy.	Transit improvement	Start a new program	Coordination with SWRTA
48	Secure funding to increase the duration and frequency of existing and planned fixed transit routes.	Transit improvement	Advocate for another agency to carry out a specific action	Coordination with SWRTA
49	Promote coordination and collaborative partnerships with other public transit and human service agencies.	Transit improvement	General aspiration	Coordination with SWRTA
50	Secure funding and promote coordination for implementing new uses of commercial space in James E. Clyburn Transportation Center to increase rent revenue and support transit services	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA
51	Coordinate planned sidewalk projects with bus stop improvements where applicable, to maximize the impact of investments and prioritize ADA sidewalk repairs at locations along bus routes.	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA

FREIGHT IMPROVEMENT ACTION ITEMS

52	Work with SCDOT to adjust signal timing along high priority freight routes to reduce emissions and delay for through movements based on posted speed limits.	Freight improvement	Carry out a specific planning function	Construct, install, or deliver specific physical improvements
53	Work with SCDOT to make improvements at critical intersections on truck routes to more easily facilitate large vehicle movements and encourage their use by truckers.	Freight improvement	Carry out a specific planning function	Coordination with SCDOT
54	Designate truck routes in line with recommendations from Freight Chapter. Secure funding for installation of route signage at priority locations.	Freight improvement	Conduct a new study/ planning effort	Coordination with SCDOT
55	Coordinate with SCDOT to install signage marking US-378 Bypass: primary east-west truck route	Freight improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements
56	Coordinate with SCDOT to install signage marking US-15: primary north-south truck route	Freight improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements
57	Coordinate with SCDOT to install signage marking US-521: primary northwest-southeast truck route	Freight improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements
58	Work with SCDOT to prioritize resurfacing on designated truck routes to reduce noise and vibration from trucks.	Freight improvement	Change a process or regulation	Coordination with SCDOT
59	Publish and distribute educational materials to businesses and industries concerning truck routes.	Freight improvement	Carry out a specific planning function	Partnerships & coordination with community stakeholders
60	Work with SCDOT to create a secondary truck route between US-378 (west) and US-15 (south) by upgrading portions of Kings Highway (SC-261), Cane Savannah Road, St. Pauls Church Road, Cains Mill Road, and Clipper Road.	Freight improvement	Carry out a specific planning function	Coordination with SCDOT

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A NOTE ON PROJECT PRIORITIZATION AND IMPLEMENTATION

The project ranking system established in this plan is, by default, reactive rather than proactive in identifying areas to be addressed on Sumter's transportation network. This means that new development (commercial, industrial, and residential) can create an impact, and a need for transportation improvements, that are not captured by available data, or effectively scored via the established project prioritization system.

In situations involving new developments where the transportation needs of the Sumter community can be best served by selecting a project that is ranked lower on the financially constrained project list or selecting a project that is not on the financially-constrained list, the SUATS Policy Committee may make project selection based on additional information (e.g. traffic impact studies, details on new developments) that becomes available once new commercial, industrial, or residential development is planned.

COMPOSITE FINANCIALLY CONSTRAINED PRIORITY LIST

	Project ID	Project Name	Project Extents	Estimated Project Cost
2023-2030	S-5	Broad St. Safety Improvements	Miller Rd. to Warren St.	\$ 4,733,600
	S-6	Camden Hwy. Safety Improvements	Broad St. to Mason Rd.	\$ 7,410,800
	S-8	N./S. Guignard Dr. Safety Improvements	Miller Rd. to McCray's Mill Rd.	\$ 6,984,000
	RD-3	E. Liberty St. Road Diet	N/S. Harvin St. to Boulevard Rd.	\$ 3,375,600
	S-4	Broad St. Safety Improvements	Alice Dr. to Miller Rd.	\$ 8,186,800
	IS-4	N. Guignard Dr. @ W. Liberty St. Intersection	N. Guignard Dr. @ W. Liberty St.	\$ 6,790,000
	IS-19	US-378 @ US-521 Intersection	US-378 @ US-521	\$ 4,850,000
	IS-3	Miller Rd. @ N. Guignard Dr. Intersection	Miller Rd. @ N. Guignard Dr.	\$ 4,850,000
	G-3	Lafayette Drive Greenway	Crosswell Drive Park to James St.	\$ 2,071,611
	SW-3	Miller Rd Sidewalk (north side)	Broad St. to Oxford St.	\$ 438,236
	SW-4	Miller Rd Sidewalk (west side)	Broad St. to Andrena Dr.	\$ 454,118
	G-21	N. Lafayette Drive Sidepath	Sumter Police Dept. to Crosswell Dr.	\$ 428,123
	G-11	West Liberty Street Cycle Track	S. Sumter St. to Alice Dr.	\$ 9,163,561
	SW-2	N. Guignard Drive Sidewalk Widening	Community St to W Calhoun St	\$ 381,515
	SW-7	N. Wise Drive	Broad St. to N. Pike West	\$ 471,222
	P-11	Alice Drive at Broad Street	Alice Dr. at Broad St.	\$ 291,000
	P-24	Central Carolina Technical Col. Main Campus	N. Guignard Dr. at CCTC	\$ 194,000
	P-10	McCray's Mill Rd at S. Guignard Drive	McCray's Mill Rd. at S. Guignard Dr.	\$ 291,000
	P-1	Willow Drive Elementary	Broad St. at Willow Dr. Elementary	\$ 194,000
2031-2040	S-12	N./S. Lafayette Dr. Safety Improvements	Loring Dr. to Divine St.	\$ 3,181,600
	O-2	Bultman Dr./N. Guignard Dr. Operational Improvements	Broad St. to Miller Rd.	\$ 6,751,200
	RD-5	W. Liberty St. Road Diet	N./S. Sumter St. to Alice Dr.	\$ 10,359,600
	RD-1	N./S. Washington St. Road Diet	Warren St. to Dingle St.	\$ 4,888,800
	RD-6	E./W. Calhoun St. Road Diet	N. Washington St. to Commerce St.	\$ 4,132,200
	S-2	Broad St. Safety Improvements	N. Saint Paul's Church Rd. to Stamey Livestock Rd.	\$ 7,178,000
	S-3	Broad St. Safety Improvements	Stamey Livestock Rd. to Alice Dr.	\$ 6,091,600
	RD-4	N./S. Harvin St. Road Diet	E. Calhoun St. to CSX Railroad	\$ 3,783,000
	IS-2	Broad St. @ Alice Dr. Intersection	Broad St. @ Alice Dr.	\$ 6,790,000

COMPOSITE FINANCIALLY CONSTRAINED PRIORITY LIST (CONTINUED)

	Project ID	Project Name	Project Extents	Estimated Project Cost
2031-2040	IS-10	E. Liberty St. @ S. Lafayette Dr. Intersection	E. Liberty St. @ S. Lafayette Dr.	\$ 4,850,000
	IS-11	Broad St. @ Wilson Hall Rd. Intersection	Broad St. @ Wilson Hall Rd.	\$ 4,850,000
	IS-6	Broad St. @ Miller Rd. Intersection	Broad St. @ Miller Rd.	\$ 4,850,000
	IC-8	US-521 @ Mason Rd. Intersection	US-521 @ Mason Rd.	\$ 6,790,000
	G-17	Camden Hwy. Sidepath	Market St. to Mason Rd.	\$ 2,181,618
	SW-25	E. Wesmark Blvd. Sidewalk	Broad St. to S Pike West	\$ 381,166
	G-19	Pocalla Rd. Sidepath	Cockerill Rd. to Kingsbury Dr.	\$ 2,325,575
	SW-5	N. Pike West Sidewalk	Porter St. to N Main St.	\$ 418,340
	G-16	Terry Rd./Mason Rd. Sidepath	Carter Rd to Camden Hwy	\$ 2,058,164
	G-15	Patriot Parkway Sidepath	Lisbon Dr. to Shaw AFB Main Gate	\$ 4,940,386
	SW-8	N. Wise Dr. Sidewalk	Broad St. to Bultman Dr.	\$ 136,654
	SW-12	E. Fulton St. Sidewalk	Missouri St. to Silver St.	\$ 386,751
	SW-24	Gion St. Sidewalk	Alice Dr. to Broad St	\$ 573,843
	P-12	Loring Mill Rd. at Wise Dr.	Loring Mill Rd. at Wise Dr.	\$ 291,000
	P-8	Downtown Library Mid-block Crossing	N. Harvin St. at Sumter County Library	\$ 97,000
	P-14	Sumter Economic Development HQ	W. Liberty St. at Sumter Econ. Dev.	\$ 145,500
	P-22	N. Wise Drive Mid-block Crossing	N. Wise Dr. at Wise Dr. Bridge	\$ 194,000
	P-2	Alice Drive Elementary	Alice Dr. at Alice Dr. Elementary	\$ 194,000
2041-2050	S-13	Manning Ave. Safety Improvements	US-15 to Divine St.	\$ 4,617,200
	S-7	N. Main St. Safety Improvements	N. Pike Rd. to E. Brewington Rd.	\$ 10,631,200
	O-7	Alice Dr. Operational Improvements	Broad St. to Wise Dr.	\$ 9,544,800
	S-9	Robert E. Graham Freeway Safety Improvements	Broad St. to N. Main St.	\$ 10,010,400
	S-10	W. Calhoun St. Safety Improvements	N. Washington St. to N. Guignard Dr.	\$ 4,112,800
	S-11	N. Main St. Safety Improvements	US-15 to W. Calhoun St.	\$ 5,199,200
	S-1	Broad St. Safety Improvements	SC-441 to N. Saint Paul's Church Rd.	\$ 12,648,800
	IS-22	Broad St. @ Wise Dr.	Broad St. @ Wise Dr. Intersection	\$ 4,850,000
	IS-5	Broad St. @ N. Purdy St.	Broad St. @ N. Purdy St. Intersection	\$ 4,850,000
	IC-4	Broad St. @ Mason Rd.	Broad St. @ Mason Rd. Intersection	\$ 9,700,000
	IC-7	US-521 @ Beckwood Rd.	US-521 @ Beckwood Rd. Intersection	\$ 6,790,000

COMPOSITE FINANCIALLY CONSTRAINED PRIORITY LIST (CONTINUED)

	Project ID	Project Name	Project Extents	Estimated Project Cost
2041-2050	IS-23	Alice Dr. @ Miller Rd.	Alice Dr. @ Miller Rd. Intersection	\$ 4,850,000
	IS-13	Wedgefield Rd. @ Loring Mill Rd.	Wedgefield Rd. @ Loring Mill Rd. Intersection	\$ 4,850,000
	G-2	Turkey Creek Greenway	Crosswell Drive Park to Manhattan Ave	\$ 18,689,953
	G-18	Manning Rd./US-521 Sidepath	Aull St to Pocalla Rd	\$ 3,763,600
	SW-32	Carolina Ave. Sidewalk	Broad St to S Pike West	\$ 776,643
	SW-36	Mitchell St. Sidewalk	N Lafayette Dr to N Main St	\$ 107,334
	SW-6	N. Pike West Sidewalk	Clara Louise Kellogg Dr to N Wise Dr	\$ 342,421
	SW-14	Boulevard Rd. Sidewalk	E Red Bay Rd to Fleming St	\$ 715,733
	SW-19	W. Calhoun St. Sidewalk	Winn St to N Guignard Dr	\$ 207,687
	SW-20	Calhoun Dr. Sidewalk	W Liberty St to N Guignard Dr	\$ 330,379
	SW-26	Rast St. Sidewalk	E Wesmark Blvd to N Wise Dr	\$ 577,508
	SW-30	Oswego Hwy. Sidewalk	E Charlotte Ave to E Calhoun St	\$ 666,866
	SW-22	Pine St. Sidewalk	Pear St to N Main St	\$ 446,962
	SW-33	Poulas St. Sidewalk	S Pike West to Carolina Ave	\$ 317,813
	SW-10	S. Harvin St. Sidewalk	E Oakland Ave to Watkins St	\$ 181,508
	SW-11	S. Sumter St. Sidewalk	CSX Railroad to W Williams St	\$ 394,604
	P-15	Liberty Center Mid-block Crossing	W. Liberty St. at Liberty Center	\$ 145,500
	P-21	N. Washington St. Mid-block Crossing	N. Washington St. at Hospital	\$ 194,000
	P-20	JMBC Mid-block Crossing	Manning Ave. at JMBC	\$ 145,500
	P-17	Patriot Park Mid-block Crossing	Patriot Pkwy at Patriot Park Entrance	\$ 194,000

REDUCING CONGESTION

Poor
Signal
Timing

Special
Events

Work
Zones



Bottlenecks



Wea

Incidents

CHAPTER 13

PERFORMANCE MEASURES

CHAPTER 13

INTRODUCTION

SAFETY MEASURE (PM-1)

PAVEMENT AND BRIDGE CONDITION MEASURE (PM-2)

SYSTEM MEASURE (PM-3)

TRANSIT ASSET MANAGEMENT MEASURE (PM-4)

TRANSIT SAFETY AND RELIABILITY MEASURE (PM-5)

PERFORMANCE MEASURES

Starting in 2010, federal legislation transformed the transportation federal aid program by establishing new requirements for performance management and performance-based planning and programming, designed to ensure the most efficient investment of federal transportation funds. MPOs must apply a transportation performance-based planning approach when carrying out their federally-required transportation planning and programming activities. Performance-based planning & programming or “performance management” is a strategic approach that uses system generated information to make investment and policy decisions to achieve goals set for the multimodal transportation system.

Specifically, Performance-Based Planning & Programming (PBPP) refers to the application of performance management as standard practice in the planning and programming decision-making process. These requirements outline a systematic and objective driven approach to transportation decision-making that supports national goals for the federal-aid highway and public transportation programs.

MPOs may establish their own performance measures and targets or adopt the statewide measures and targets set by SCDOT. As part of the metropolitan transportation planning process, the MPO also must publish a System Performance Report.

The System Performance Report presents the baseline or current condition and performance of the transportation system with respect to these performance measures and targets, and future conditions as data is available.

The Transportation Performance Management approach focuses investment on the achievement of the following national performance areas:

- **Safety Performance (PM-1)**
- **Pavement and Bridge Performance (PM-2)**
- **System and Freight Performance (PM-3)**
- **Transit Asset Management Performance (PM-4)**
- **Transit Agency Safety Plans (PM-5)**

SAFETY MEASURE (PM-1)

SAFETY MEASURE

In March 2016, the Highway Safety Improvement Program (HSIP) and the Safety Performance Management Measures Rule (Safety PM Rule) were published in the Federal Register. The Safety Performance Measures Final Rule supports the HSIP by requiring MPOs to set targets for safety-related performance measures and report progress to state DOTs.

The Final Rule establishes the following performance measures:

- Number of fatalities
- Rate of fatalities per 100 million vehicle miles traveled
- Number of serious injuries
- Rate of serious injuries per 100 million vehicle miles traveled
- Number of combined non-motorized fatalities and non-motorized serious injuries

Safety performance targets are provided annually by SCDOT to FHWA as five-year rolling averages for each safety performance measure.

SAFETY PERFORMANCE

MPOs can choose to set performance targets or commit to help implement the state’s targets. SUATS has elected to support the state’s safety targets.

SUATS safety targets are shown in Table 13.1. SUATS supports the safety performance targets through its planning and programming activities.

STRATEGIES TO MAINTAIN AND IMPROVE SAFETY PERFORMANCE

- Identify the region’s high-crash locations and the crash factors involved at those locations.
- Prioritize safety as part of intersection improvements for all mode users.
- Implement bicycle and pedestrian projects that provide a greater degree of separation.
- Prioritize modernization of rural roads with limited to no shoulder and narrow lanes.

Table 13.1 - 2021-2025 Safety Targets

Performance Measure	Statewide Targets (2021-2025 Average)	SUATS Targets
Number of Fatalities	1,080	18.8
Fatality Rate*	1.782	2.413
Number of Serious Injuries	2,764	53.4
Serious Injury Rate*	4.561	6.854
Number of Non-Motorized Fatalities and Serious Injuries	453.4	8.4
* Per 1 million vehicle miles traveled (VMT)		

PAVEMENT AND BRIDGE CONDITION MEASURE (PM-2)

PAVEMENT AND BRIDGE CONDITION MEASURE

Effective May 20, 2017, FHWA published a final rule establishing performance measures for use in managing pavement and bridge performance on the National Highway System (NHS). State targets are set based on asset management analyses and reflect investment strategies that work toward achieving a state of good repair over the life cycle of facilities.

The Final Rule establishes the following Performance Measures:

- % of Interstate pavements in Good condition
- % of Interstate pavements in Poor condition
- % of non-Interstate NHS pavements in Good condition
- % of non-Interstate NHS pavements in Poor condition
- % of NHS bridges by deck area classified as in Good condition
- % of NHS bridges by deck area classified as in Poor condition

Pavement and bridge condition performance is assessed and reported over a four-year performance period. The PM2 rule requires states to establish two-year and four-year performance targets for each PM-2 measure.

PAVEMENT AND BRIDGE PERFORMANCE

MPOs may either support the state DOT's four-year targets or establish their own targets within 180 days of the DOT's establishment of its targets. SUATS MPO has chosen to support SCDOT's pavement and bridge targets and will continue to coordinate with SCDOT in the development of pavement and bridge targets. While these targets are only directly applicable to the NHS network, SUATS emphasizes these performance areas for all roadways within its jurisdiction.

The SCDOT PM2 – Pavement and Bridge Condition Performance Targets were adopted by the SUATS Policy Committee on May 3, 2021. The SUATS MPO Pavement and Bridge Condition Performance Targets are shown in Table 13.2.

STRATEGIES TO MAINTAIN AND IMPROVE SAFETY PERFORMANCE

- Implement a data-driven prioritization process and direct funding based on pavement need.
- Continue to coordinate with SCDOT to ensure bridge maintenance is completed on a regular and needed basis.

Table 13.2 - Pavement and Bridge Condition Targets

Performance Measure	Baseline 2018	2-Year (2018-2019) Target	4-Year (2018-2021) Target
% of Pavements of the Interstate System in Good Condition	-	-	71.0%
% of Pavements of the Interstate System in Poor Condition	-	-	3.0%
% of Pavements of the Non-Interstate NHS in Good Condition	50.4%	14.9%	21.1%
% of Pavements of the Non-Interstate NHS in Poor Condition	8.6%	4.3%	4.6%
% of NHS Bridges Classified as in Good Condition	41.1%	42.2%	42.7%
% of NHS Bridges Classified as in Poor Condition	4.0%	4.0%	6.0%

SYSTEM PERFORMANCE MEASURE (PM-3)

SYSTEM PERFORMANCE MEASURE

Effective May 20, 2017, FHWA published a final rule establishing measures that report on the performance of the Interstate and non-Interstate NHS to carry out the National Highway Performance Program (NHPP), and freight movement on the Interstate system to carry out the National Highway Freight Program (NHFP).

The Final Rule establishes the following Performance Measures:

- % of reliable person-miles traveled on the Interstate
- % of reliable person-miles traveled on the non-Interstate NHS
- % of Interstate system mileage providing for reliable truck travel time - Truck Travel Time Reliability Index

Performance for the PM-3 measures is reported over a four-year performance period. The PM-3 rule requires states to establish two-year and four-year performance targets.

SYSTEM PERFORMANCE

MPOs are required to either support the state four-year targets or establish their own targets within 180 days of the state DOT’s target establishment. SUATS has chosen to support the SCDOT’s system performance targets and will continue to coordinate with SCDOT in the development of system performance targets. Regardless of which targets the MPO chooses to adopt, the targets must be reevaluated and readopted every four years and reflected within the Long Range Transportation Plan.

Table 13.3 presents SCDOT’s statewide system performance targets. The SUATS Policy Committee adopted SCDOT’s performance targets on May 3, 2021.

STRATEGIES TO MAINTAIN AND IMPROVE SYSTEM PERFORMANCE

- Continue to monitor travel time reliability as the region continues to grow.
- Work with major regional employers to develop travel demand management strategies and alternative commute alternatives.

Table 13.3 - System Performance Measures

Performance Measure	Baseline	2-Year Target	4-Year Target
% of the Person-Miles Traveled on the Interstate that are Reliable	94.7%	91.0%	90.0%
% of the Person-Miles Traveled on the Non-Interstate NHS that are Reliable	-	-	81.0%
Truck Travel Time Reliability Index (TTTR)	1.34	1.36	1.45

TRANSIT ASSET MANAGEMENT (PM-4)

TRANSIT ASSET MANAGEMENT

This section presents the Transit Asset Management (TAM) targets adopted by the Santee-Wateree Regional Transit Authority (SWRTA) —which serves the SUATS MPO region— and the State of Good Repair (SGR) performance of their capital assets. The final TAM rule, effective October 1, 2016, defines transit asset management as “a strategic and systematic process of operating, maintaining, and improving public transportation capital assets effectively through the life cycle of such assets.”

SWRTA has adopted the SCDOT’s TAM targets. SUATS coordinates with SWRTA on transit asset management and will continue to do so as an integral part of the MPO’s continuing, comprehensive, and cooperative (3-C) planning process.

Transit agencies are required to set fiscal year performance targets and report SGR performance for each asset category to FTA on an annual basis. FTA has established performance measures to approximate the SGR for each category of capital assets. Calculating performance measures helps transit agencies to quantify the condition of their assets, which facilitates setting targets that support local funding prioritization. The Transit Asset Management Targets for the SUATS MPO are shown in Table 13.4.

Strategies to Maintain and Improve Performance Measures

- Continue to monitor transit asset condition as the transit systems continue to grow and age
- Implement a data-driven prioritization process and direct funding based on transit asset condition need

Table 13.4 - Transit Asset Management Measures

	2020	2021	2022	2023	2024
Revenue Vehicles					
Age - % of revenue vehicles within a particular asset class that have met or exceeded their useful life benchmark (ULB)					
Over-the-Road Bus	15%	15%	15%	15%	15%
Bus	15%	15%	15%	15%	15%
Cutaway Bus	30%	30%	30%	30%	30%
Mini-Van	20%	20%	20%	20%	20%
Van	20%	20%	20%	20%	20%
Equipment					
Age - % of vehicles that have met or exceeded their useful life benchmark (ULB)					
Non-Revenue (Service) Vehicles	30%	30%	30%	30%	30%
Facilities					
Condition - % of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale					
Administration	0%	0%	0%	0%	0%
Maintenance	0%	0%	0%	0%	0%

TRANSIT SAFETY AND RELIABILITY (PM-5)

TRANSIT SAFETY AND RELIABILITY

This section presents the transit safety targets adopted by the SUATS MPO Policy Committee. The final transit safety rule, which became effective July 19, 2018, requires public transportation systems that receive federal funds under FTA's Urbanized Area Formula Grants to develop safety plans that include the processes and procedures to implement Safety Management Systems, including transit safety performance targets for:

- Fatalities
- Injuries
- Safety Events
- System Reliability

Transit agencies are required to set fiscal year performance targets and report performance for each category to FTA on a triennial basis. FTA has established performance measures to improve public transportation safety by guiding transit agencies to more effectively and proactively manage safety risks in their systems.

Calculating performance helps transit agencies to quantify their safety risks and set targets that support local funding prioritization. As with the previous section, SUATS will include the SCDOT TAM targets (adopted by SWRTA) in this long range transportation plan. SUATS will support these targets through its planning and programming activities. The Transit Safety Targets for the SUATS MPO are shown in Table 13.5.

STRATEGIES TO MAINTAIN AND IMPROVE PERFORMANCE MEASURES

- Identify the region's specific transit safety and reliability incidents and the factors involved in each incident
- Prioritize safety and reliability as part of each agency's transit operating procedures and decisions
- Complete a Transit Development Plan with a focus on system reliability and performance

Table 13.5 - Transit Safety Measures

Mode of Transit Service	Fatalities (Total)	Fatalities Per 100,000 VRM	Injuries (Total)	Injuries per 100,000 VRM	Safety Events (total)	Safety Events per 100,000 VRM)	System Reliability (VRM/Failures)
Fixed Route	0	0	2.4	0.73	5.4	1.64	1206
Commuter Bus	0	0	1	0.64	1.2	0.77	1251
Demand Response	0	0	0.20	0.13	0	0	597

A row of six light-colored wooden blocks, each with a black letter, spelling out the word 'APPEND'. The blocks are arranged horizontally. To the left of the first block, a portion of a spiral-bound notebook is visible. The background is a soft, out-of-focus light blue and white.

APPEND

APPENDICES

APPENDICES



APPENDIX 1 - PUBLIC ENGAGEMENT SUMMARY

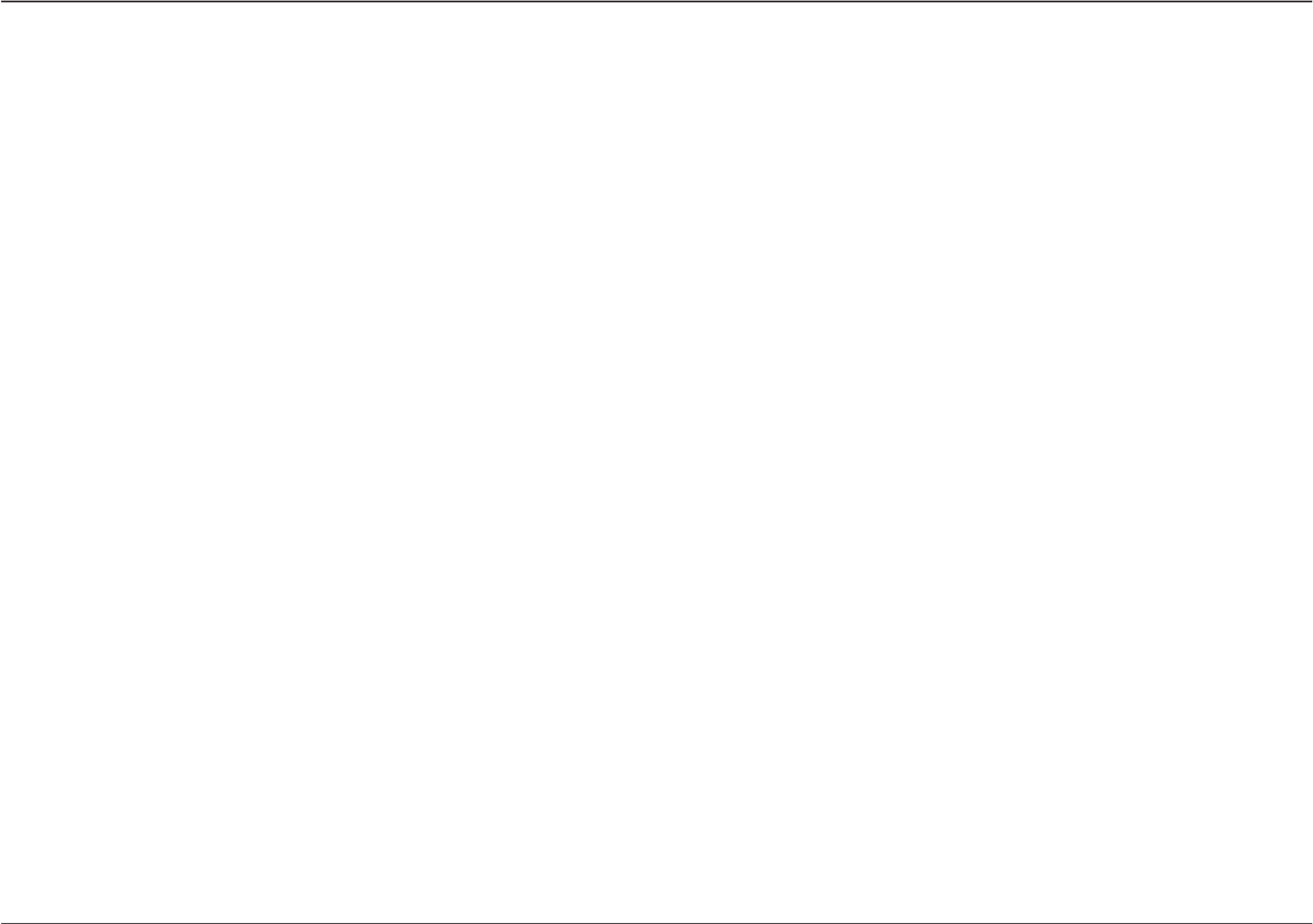
APPENDIX 2 - SYSTEM PERFORMANCE REPORT

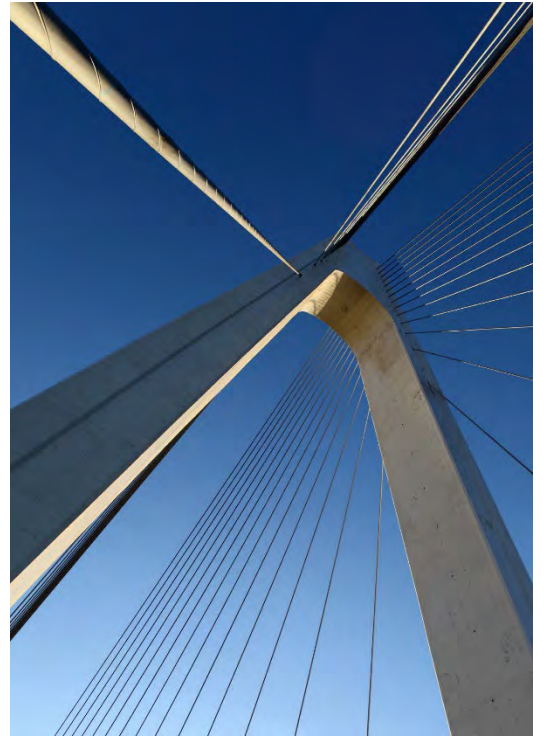
APPENDIX 3 - ANNUAL LRTP REPORT CARDS

APPENDIX 4 - REVISION/AMENDMENT HISTORY

APPENDIX 1 - PUBLIC ENGAGEMENT SUMMARY

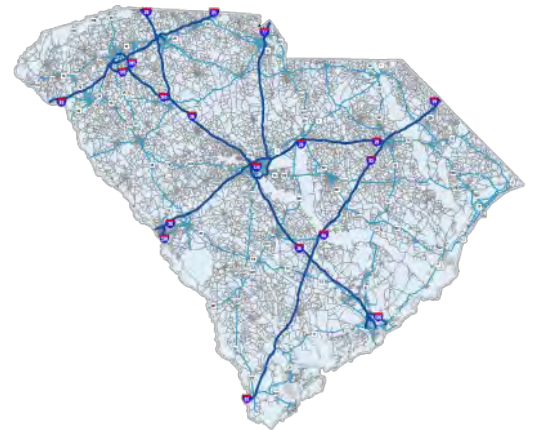
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2024 STAMP System Performance Report

Date: November 2024
23 CFR 450.324 (f)(3-4)



Produced by:
South Carolina Department of
Transportation

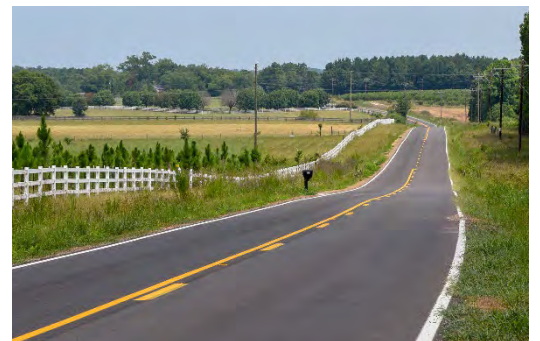


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EXECUTIVE SUMMARY

Transportation Performance Management (TPM) requires agencies to use a coordinated, data-driven approach to make transportation investment decisions that support national goals established in federal surface transportation authorizations for the Nation's federal-aid highway and public transportation programs.

The Office of Planning, South Carolina Department of Transportation (SCDOT), South Carolina Department of Public Safety (SCDPS), 11 Metropolitan Planning Organizations (MPOs) and 10 Council of Government (COGs) have worked together to incorporate the Federal TPM requirements into planning and programming activities. SCDOT adopts and reports on targets for the Federal Highway Administration (FHWA) required performance measures. This report summarizes the progress of the mid-point (end of year 2023) of the second performance period of 2022-2025.

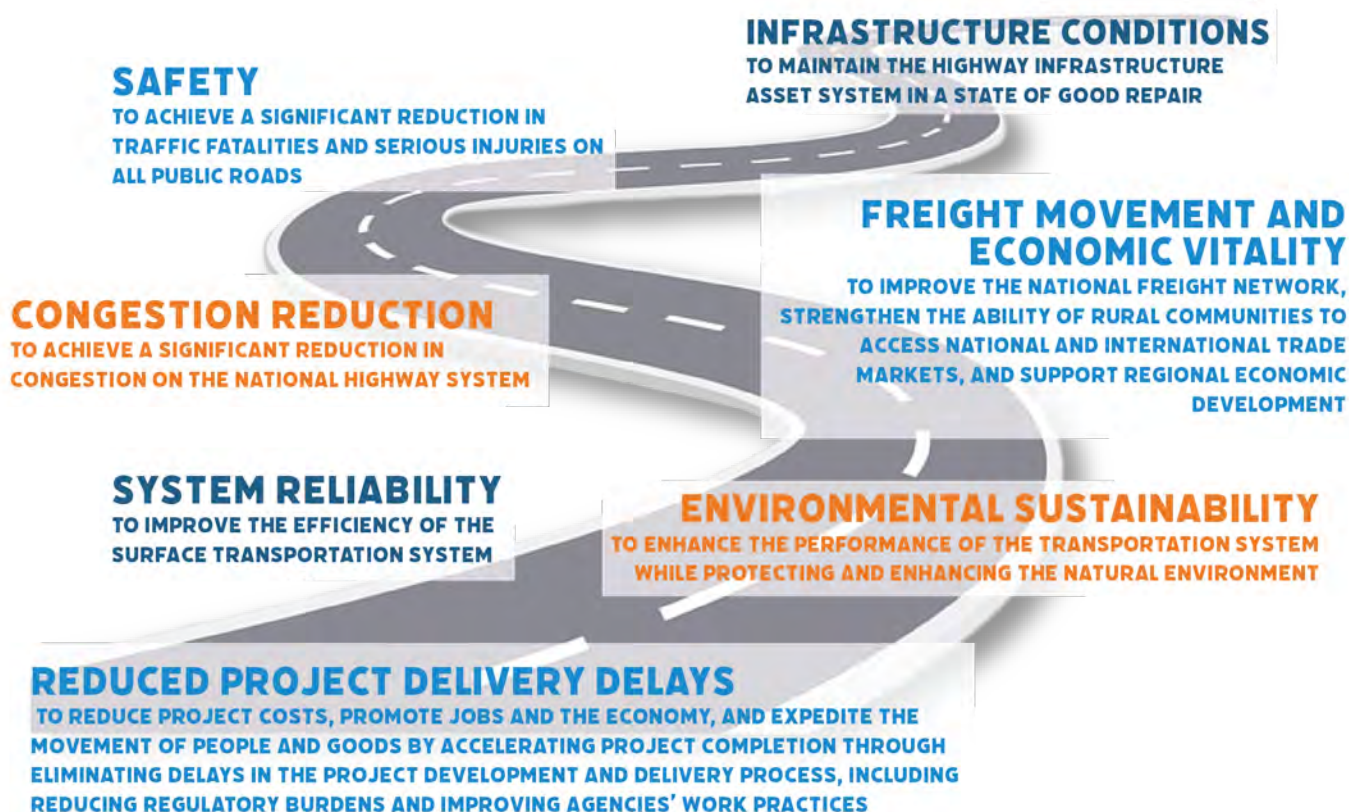
TPM Category	Performance Area	Performance Metric	Where the Metric Measured
PM1	Safety	Fatalities and Serious Injuries for motorized vehicles, bicyclist and pedestrians	Public roads
PM2	Infrastructure	Condition of pavement and bridges	National Highway System (NHS)
PM3	System Performance	Reliability of passenger travel	Interstate and Non-Interstate NHS System
PM3	System Performance	Reliability of truck travel	Interstate System
PM3	System Performance	Congestion and emissions	NHS in air quality non-attainment and maintenance areas

South Carolina set targets for the second performance period (2022-2025) based on planning investments and forecasted performance through the use of data driven metrics. A snapshot of progress towards those targets is shown in the table below. This document also includes the first performance period (2018-2021) for historical comparison in the sections that follow, along with safety measures, and regional measures for MPOs and COGs.

Performance Measure	Baseline (2021)	2023 Target	2023 Actual	Progress from 2023 Target	2025 Target
Interstate Pavement in Good Condition	75.8%	77.0%	70.7%		78.0%
Interstate Pavement in Poor Condition	0.2%	2.5%	0.6%		2.5%
Non-Interstate NHS Pavement in Good Condition	38.8%	36.0%	38.6%		38.0%
Non-Interstate NHS Pavement in Poor Condition	1.6%	10.0%	1.9%		10.0%
NHS Bridge Deck Area in Good Condition	38.5%	35.0%	33.6%		34.0%
NHS Bridge Deck Area in Poor Condition	4.3%	6.0%	4.4%		6.0%
Interstate Travel Time Reliability	95.9%	89.1%	94.4%		89.1%
Non-Interstate NHS Travel Time Reliability	95.0%	85.0%	93.1%		85.0%
Interstate Truck Travel Time Reliability	1.31	1.45	1.37		1.45

PURPOSE OF REPORT

The United States Congress' Moving Ahead for Progress in the 21st Century (MAP-21), enacted in 2012, and the subsequent Fixing America's Surface Transportation Act (FAST Act), enacted in 2015, required state Department of Transportations (DOTs) to establish and use a performance based approach in planning and programming to provide in the transportation process and funding transportation investments. The performance based approach must be used to support the seven national goals established in MAP-21. The national goals are as follows:



The new federal surface transportation authorization, Bipartisan Infrastructure Law (BIL), was signed in November 2021, and provides funding through 2027. Performance management provisions associated with the new BIL, continue the previous transportation acts. To implement the performance management provisions, United States Department of Transportation (USDOT) established performance measures that transportation agencies are required to use across three broad areas of responsibility below:



In conjunction with the PM2 rule, FHWA also finalized a Transportation Asset Management Plan (TAMP) rule that requires states to develop and implement an asset management plan for National Highway System (NHS) roads and bridges within a state to improve and maintain those facilities. While the TAMP is not a performance measure rule, it does require states develop investment strategies that will lead to a program of projects that would make progress toward achieving desired performance levels for pavement and bridge condition. A link to SCDOT's Strategic 10-Year Asset Management Plan (STAMP) is below:

<https://www.scdot.org/content/dam/scdot-legacy/performance/pdf/reports/STAMP.pdf>

The focus of this *System Performance Report* is to highlight South Carolina's reporting and target setting approach, and performance within the current performance period of 2022-2025 for the measures listed below in Figure 1.

Figure 1. FHWA Required Performance Measures

Safety Measures	Bridge/Pavement Measures	System Performance Measures
<ul style="list-style-type: none"> •Number of Fatalities •Fatality rate (per 100 million VMT) •Number of Serious Injuries •Serious injury rate (per 100 million VMT) •Number of non-motorized fatalities and serious injuries 	<ul style="list-style-type: none"> •% of pavements on the Interstate system in good condition •% of pavements on the Interstate system in poor condition •% of pavements on the non-Interstate NHS in good condition •% of pavements on the non-Interstate NHS in poor condition •NHS bridges in good condition by % of deck area •NHS bridges in poor condition by % of deck area 	<ul style="list-style-type: none"> •% of person miles traveled on the Interstate system that are reliable •% of person miles traveled on the Non-Interstate NHS system that are reliable •Truck travel time reliability index on the Interstate system •Annual hours of peak-hour excessive delay per capital (RFATS) •Percent of non-single occupant vehicle travel (RFATS) •Total emissions reduction (CMAQ projects)

This *System Performance Report* presents the baseline, performance/condition measures, targets and the progress made towards achieving those targets within the current performance period (January 1, 2022 – December 31, 2025) and also inclusive of the historical measures from the previous performance period (January 1, 2018 - December 31, 2021). The specific code locations for these federal rules are available here:

- Bridge and Pavement Performance Measures detailing definitions, methodology, and target setting approach for six bridge and pavement measures (23 CFR 490.300 and 490.400)
- System Performance Measures detailing definitions, methodology, and target setting approach for reliability, freight, congestion, and emission measures (23 CFR 490.500, 490.600, 490.700, 490.800)
- Asset Management Plans detailing the requirements for states to develop and implement risk-based TAMPs for the NHS to improve or preserve asset condition (23 CFR Part 515)
- Statewide and Metropolitan Transportation Planning detailing the process states and MPOs must follow when developing transportation plans and programs, including performance management requirements (23 CFR Part 450)

For each performance period, states establish two-year and four-year targets for PM2 and PM3 measures (while MPOs, if they elect to set their own targets, are required to only establish 4-year targets). PM1 targets are set on an annual basis with coordination from South Carolina Department of Public Safety (SCDPS) and reported in federal Highway Safety Implementation Plan (HSIP) reports. PM1 measures are included in this report for all-inclusiveness.

States are required to regularly monitor performance for each measure and report that information to FHWA biennially through three reports including: Baseline Report, Mid-Performance Report and Full Performance Report. FHWA makes a significant progress determination every two-years for the PM2 and PM3 measures to assess whether a state has achieved or made significant progress towards those targets if the performance is better than baseline or the performance is equal to or better than the target.

SCDOT PERFORMANCE

The commitment of SCDOT to the Governor, General Assembly, and citizens of South Carolina is to maintain the State Highway System in the highest state of good repair possible given the funding available. The Agency is responsible for planning, constructing, maintaining and operating the highway system in South Carolina, as well as the development of a statewide intermodal and freight program. To aid in our commitment, SCDOT uses asset and performance management principles that tie defined asset condition outcomes to specific levels of investment. In practical terms, this ensures that our pavement and bridge assets have the longest service life possible for the least practicable cost. This is extremely important in the state of South Carolina, in the most recent publishing of the 2023 Annual Report¹ we have:

- The 4th largest state highway maintained system in the United States
- Over 528 million tons of freight moving across SC annually,
- The 1st fastest growing population in the Nation,
- The deepest harbor (Charleston) on the Southeast coast,
- Over \$29 billion generated from tourism, and
- A population of approximately 5.2 million people.

It is obvious that the highway system is vital to the increasing growth of South Carolina's economy. South Carolina's highway system interconnects ports with major cities and commercial hubs while promoting the efficient transfer of both goods and people within and across the state. South Carolina continues to attract new residents, tourists, and businesses. This growth has influenced SCDOT's ability to maintain and operate the transportation network. The agency has adopted transportation asset and performance management as a best management practice and fully embraced the concept for all of its programs. The agency has also aligned its major Multimodal Transportation Plan (MTP) goals in the Momentum 2050 Plan with the seven National Goals discussed in the above section.



Continuing System Recovery



Support Freight Movement



Address Urban & Rural Mobility



Deepend Multimodal Partnerships

Performance measures are indicators of progress toward attaining a goal, objective or target (a desired level of future performance). This *System Performance Report* provides a snapshot of select measures that are used to inform decisions and provide feedback on the performance of SCDOT, our partners and South Carolina's transportation system. The sections that follow, detail performance measures, performance levels, and statewide targets for SCDOT.

¹ <https://www.scdot.org/content/dam/scdot-legacy/performance/pdf/reports/2023%20SCDOT%20Annual%20Report%20-%20publishing.pdf>

PM1 STATEWIDE SAFETY

Transportation Safety is among the Department's highest commitments to residents, business and visitors. Safety improvements save lives, enhance quality of life and support the state's economic competitiveness. Safety spans all transportation modes and is effected by many factors such as driver behaviors, infrastructure condition, weather, technology, enforcement and education.

Effective April 14, 2016, FHWA established highway safety performance measures in conjunction with the Highway Safety Improvement Program (HSIP). Safety performance targets were developed in coordination with the South Carolina Department of Public Safety (SCDPS) and reported annually to FHWA in the state's Highway Safety Improvement Program (HSIP) Annual Report and to the National Highway Traffic Safety Administration (NHTSA) in the state's Highway Safety Plan (HSP) developed by SCDPS.

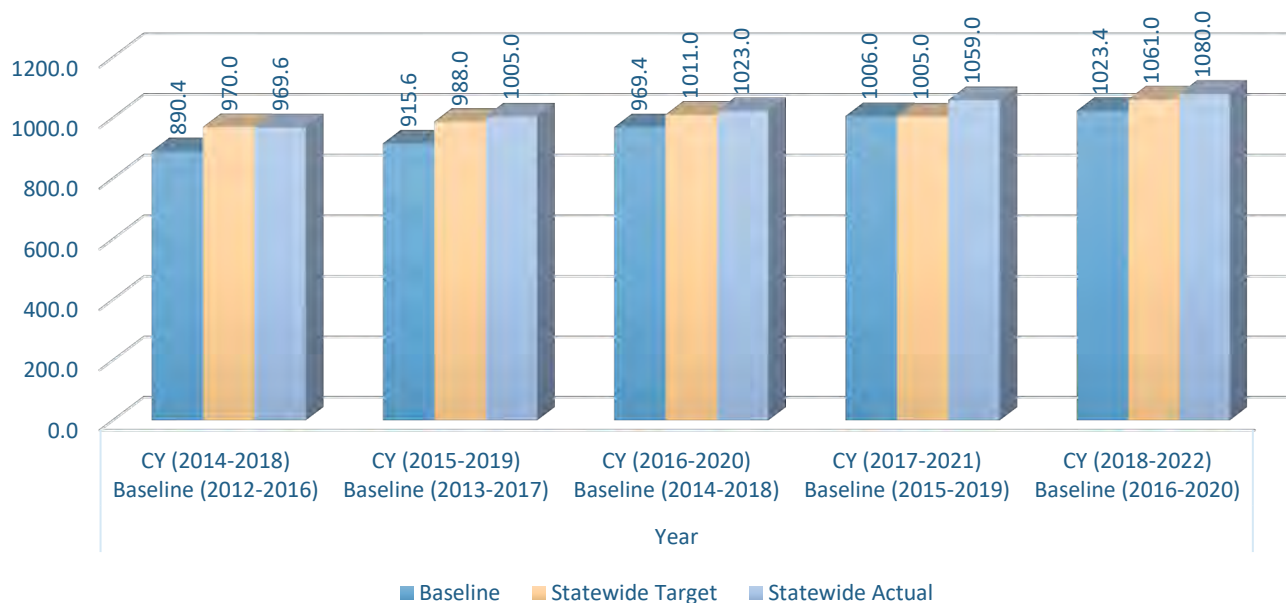
The performance measures are:

- Number of fatalities
- Rate of fatalities per 100 million vehicle miles traveled
- Number of Serious Injuries
- Rate of Serious Injuries per 100 million vehicle miles traveled
- Number of combined non-motorized fatalities and non-motorized serious injuries



The most recently assessed safety targets were for the five-year rolling average from Calendar Year (CY) 2018-2022. South Carolina's statewide safety performance targets for this time period are shown in Figure 2 through Figure 6 that follow, including actual performance, baseline and historical look back. The numbers and rates of fatalities and non-motorized fatalities on a 5-year rolling average have continued to climb while numbers and rates of serious injuries have declined. SCDOT's long term vision is zero deaths on South Carolina roadways. To advance this vision, safety is addressed through the Strategic South Carolina Highway Safety Plan (SHSP)², South Carolina Department of Public Safety Triennial Highway Safety Plan (HSP)³, (HSIP)⁴ and the SCDOT Pedestrian and Bicycle Safety Action Plan (PBSAP)⁵.

Figure 2. Number of Statewide Fatalities



² https://www.scdot.org/content/dam/scdot-legacy/performance/pdf/reports/BR1_SC_SHSP_Dec20_rotated.pdf

³ https://www.nhtsa.gov/sites/nhtsa.gov/files/2024-01/SC_FY24-26_HSP-tag.pdf

⁴ <https://highways.dot.gov/sites/fhwa.dot.gov/files/2024-04/HSIP%28South%20Carolina%29%202023%20Report.pdf>

⁵ <https://www.scdot.org/content/dam/scdot-legacy/projects/pdf/SC%20Pedestrian%20and%20Bicycle%20Safety%20Action%20Plan.pdf>

Figure 3. Rate of Fatalities Statewide (per 100 million VMT)

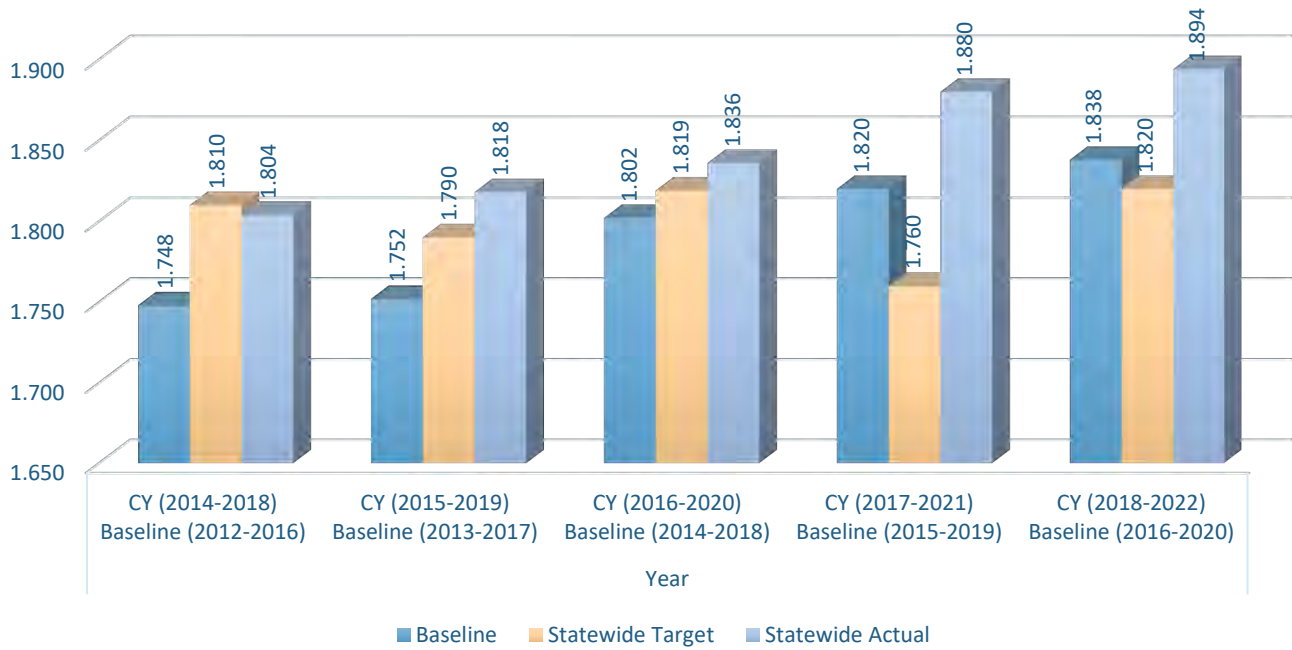


Figure 4. Number of Serious Injuries Statewide

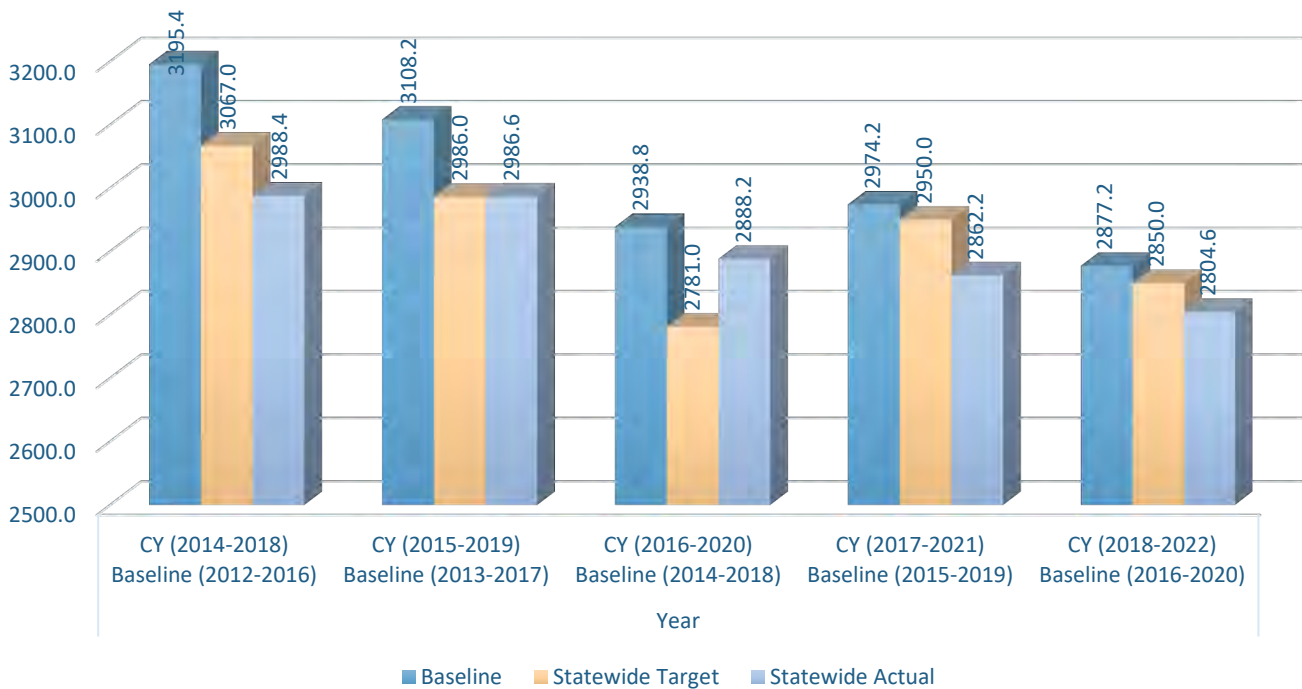


Figure 5. Rate of Serious Injuries Statewide (per 100 million VMT)

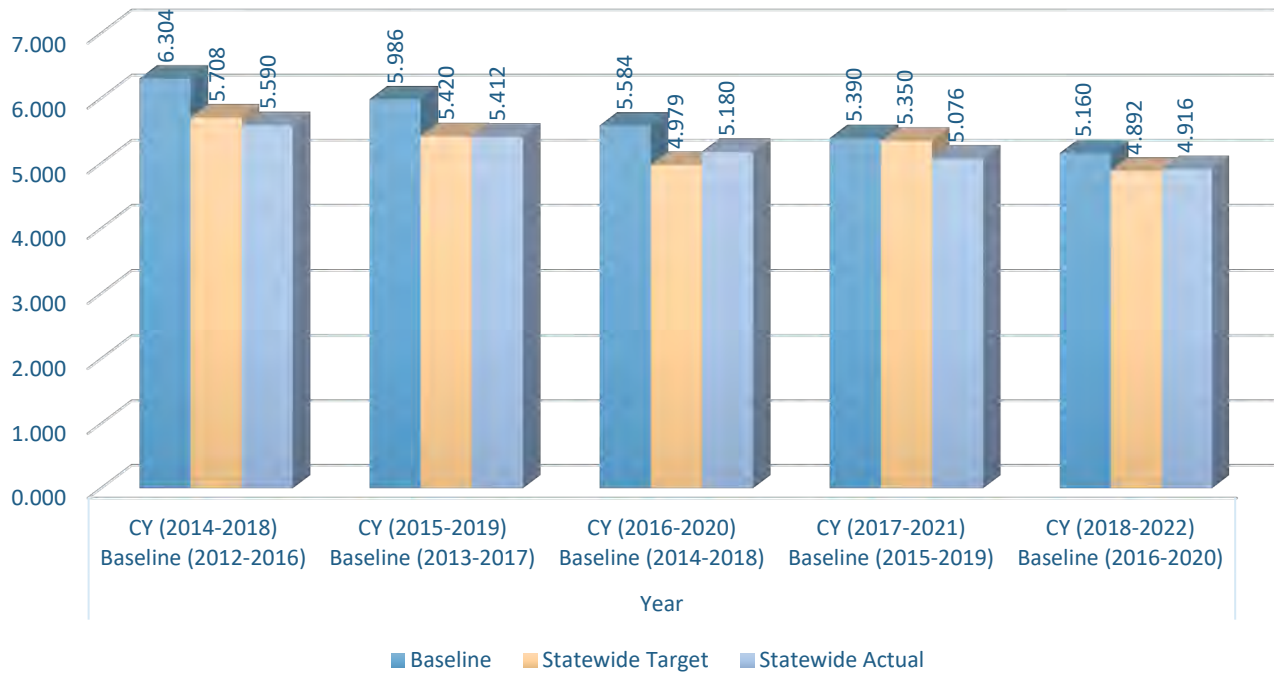
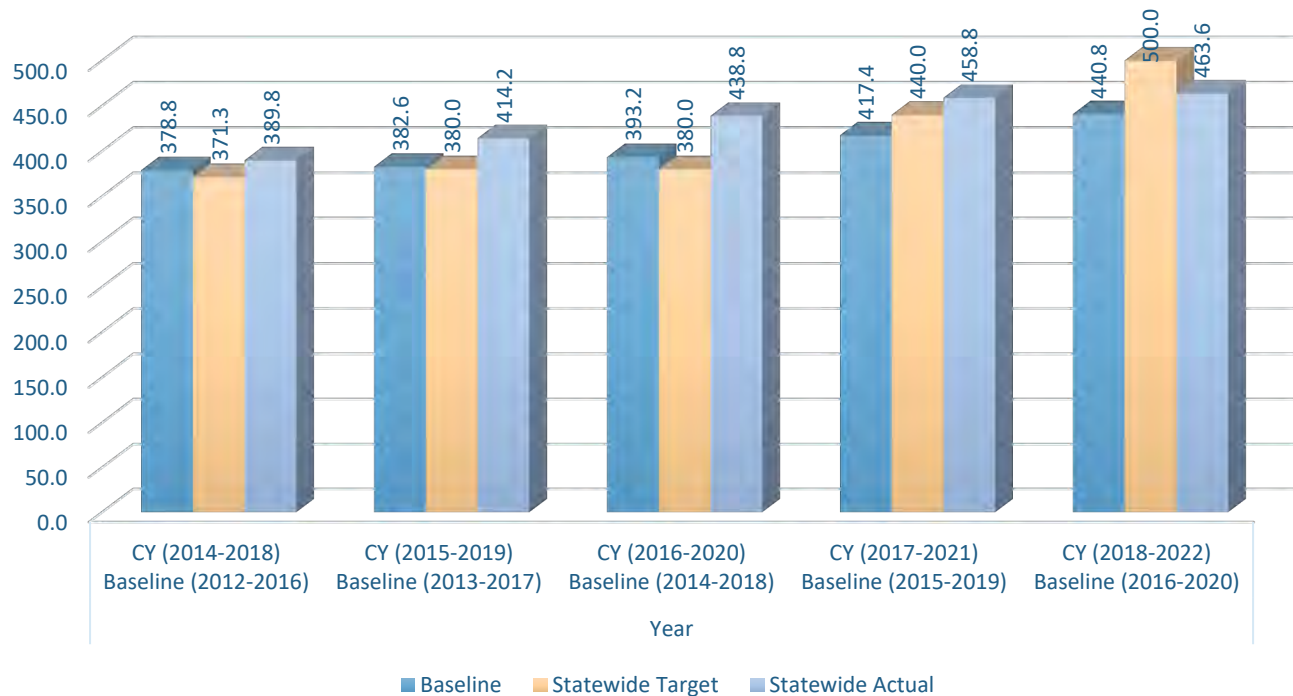
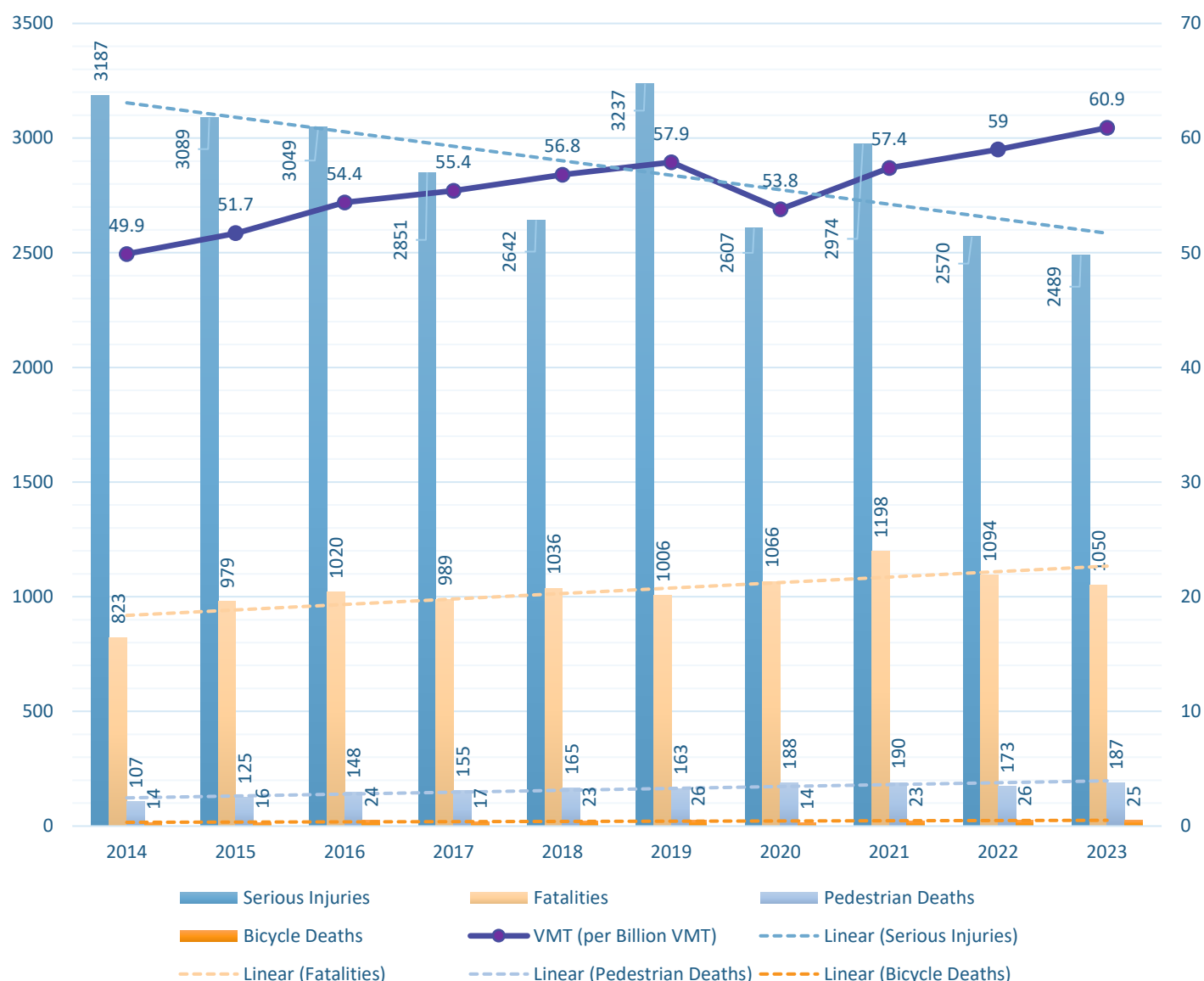


Figure 6. Number of Non-Motorized Fatalities and Serious Injuries Statewide



The total number of serious injuries, fatalities, pedestrian and bicycle deaths by calendar year are shown in Figure 7. Fatalities have increased over time until 2021 and have since been declining. Serious Injuries have generally decreased over time while bicycle and pedestrian deaths continue a trend of increase. A relationship is seen between increasing VMT and the general increasing trend of fatalities. Despite safer highway design, safer motor vehicles, increased safety belt usage, public education, enforcement and improved emergency response and treatments, there is still more work to do.

Figure 7. Calendar Year Trends from 2014-2023 Statewide



MPO and COG SAFETY

It is essential that federal, state, regional and local safety partners and other stakeholders work together to improve safety. SCDOT collaborates with the local MPO and COG partners to reduce fatalities and serious injuries by targeting projects and resources to areas with a data driven approach to tackle areas with the greatest potential for improvement. Figures 8 through 11 show the baseline (2019-2023) data for combined fatal and serious injuries by share for each MPO and COG area and the Fatality and Serious Injury rates (per 100 million VMT) for each region. See Appendix A for data tables.

Figure 8. MPO Share of Fatal and Serious Injuries (2019-2023)

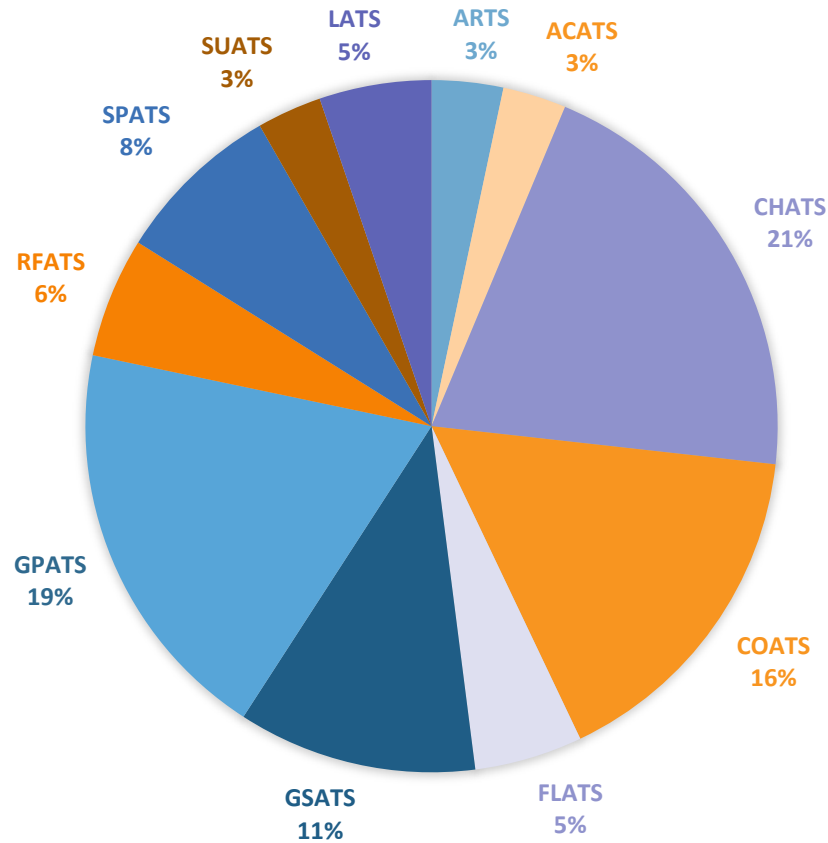


Figure 9. MPO Fatality and Serious Injury Rates (2019-2023)

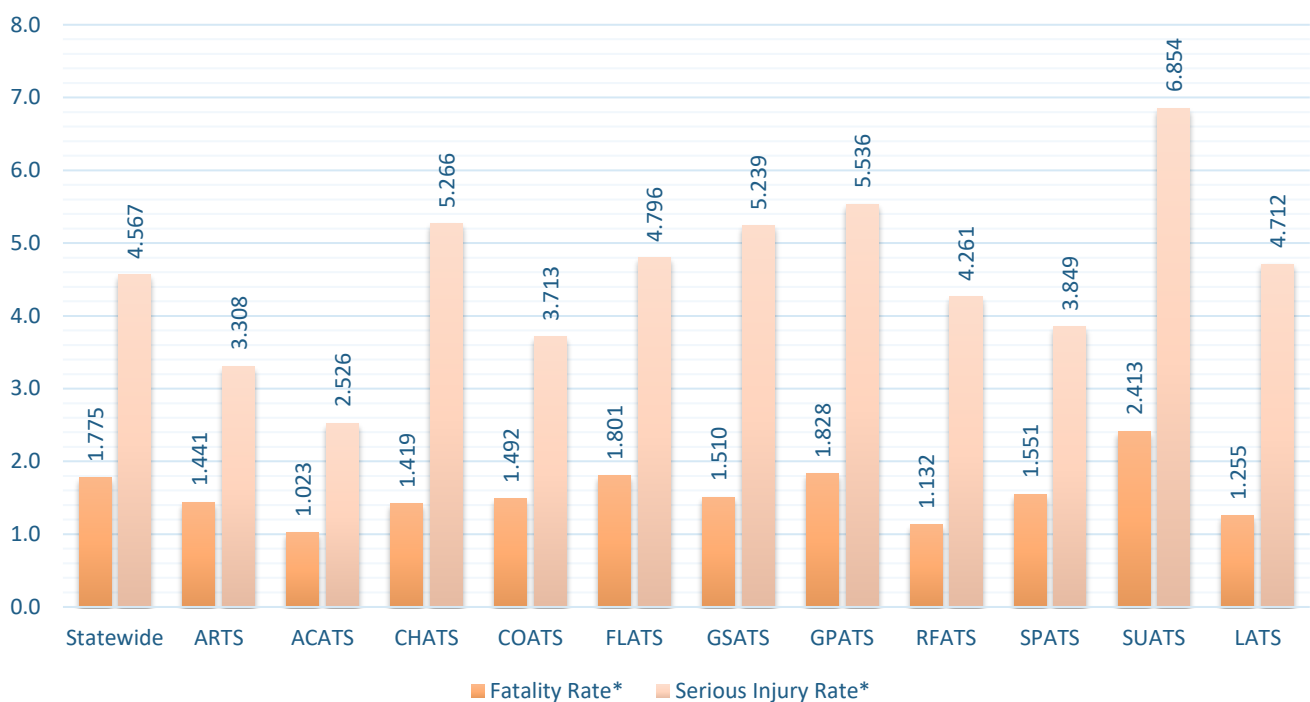


Figure 10. COG Share of Fatal and Serious Injuries (2019-2023)

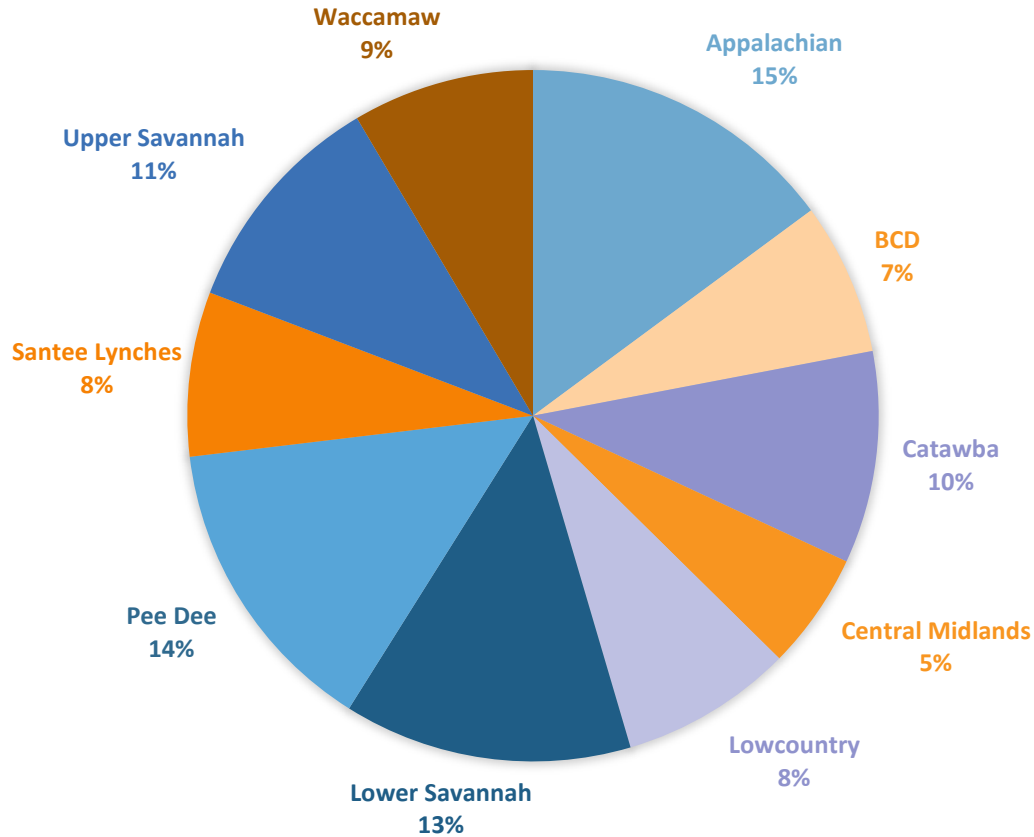
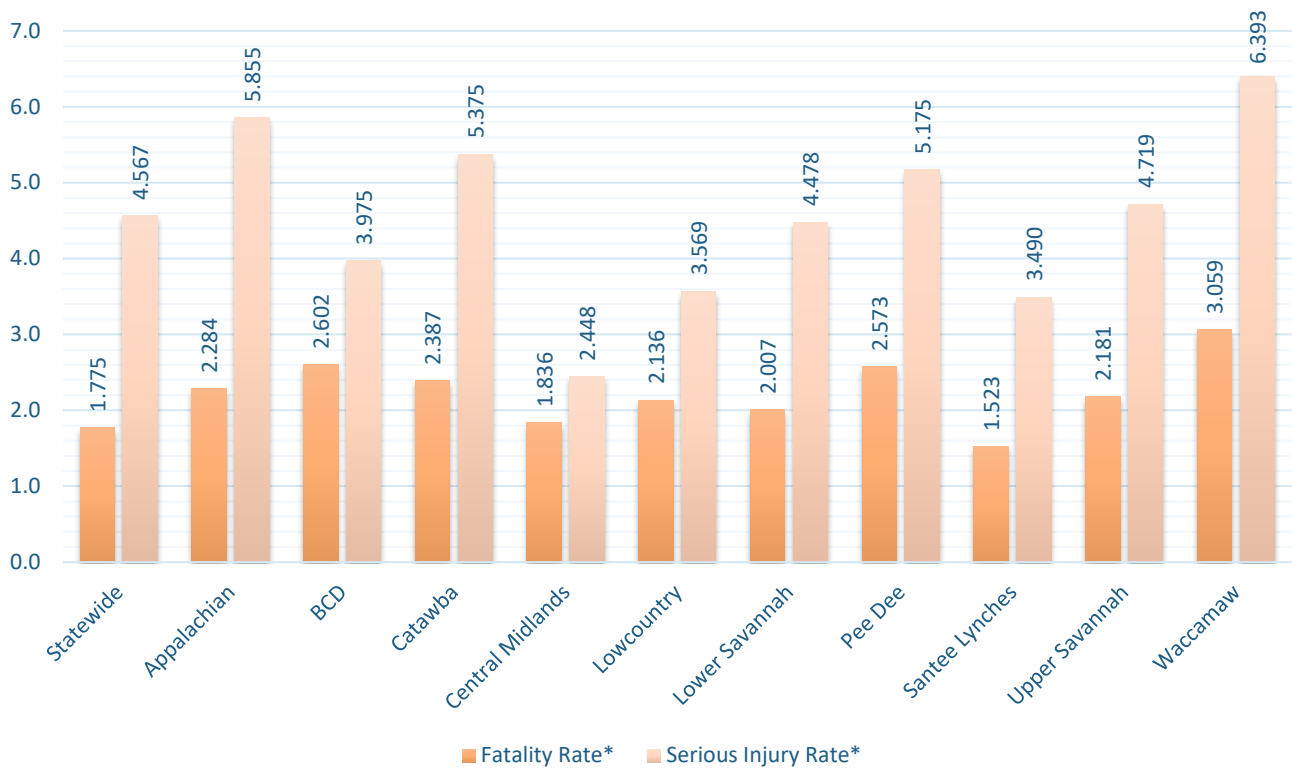


Figure 11. COG Fatality and Serious Injury Rates (2019-2023)



PM2 STATEWIDE PAVEMENT CONDITION

SCDOT has made measureable and positive progress implementing the strategic priorities of the STAMP that are key to aligning with SCDOT's internal and external efforts towards achievable results. The Ten-Year Plan is addressing infrastructure needs across the state, which was initiated in 2017. The largest single area of this investment is for paving. At the update of the 2023 Annual Report over 7,300 miles of paving had advanced to construction. The major road networks or primary routes have improved their measure of good and poor pavements since implementation of the plan.

The two-year and four-year performance targets (Figures 13-16), for both interstates and non-interstate NHS pavements were determined based on current performance, historic performance data and predicted trends. Since the establishment of MAP-21, state DOT's are required to report the performance measures in the Federal Pavement Metric. This metric is calculated to determine if the section is good, fair or poor with respect to: Pavement Roughness, Rutting, Present Serviceability Rating, Faulting and Cracking (concrete pavements only). The thresholds for good, fair and poor condition are established by federal regulation. Conditions are assessed for 0.1 mile long pavement sections using the criteria. An individual section is rated as being in overall good condition when all metrics are good. An individual section is rated as being in poor overall condition when two or more metrics are poor. Any other combination would fall into the fair category. Lane miles are tabulated for all sections to determine the overall percentage of good, fair and poor for each pavement system. When pavement is in good condition, it means no major investment is needed. Pavement in fair condition suggests only minor investment is needed, and pavement in poor condition suggest major reconstruction is needed. A minimum threshold in MAP-21 established the percentage of lane-miles of Interstate System in poor condition shall not exceed 5% (23 CFR 490.315). All pavement metrics were met with exception of the 2-year actual condition of 70.7% for Interstate pavements in good condition, coming in below the target of 77%. A combination of factors including distress data, project cost inflation used to forecast future work, and material shortages, particularly cement used to fully reconstruct roads effected the actual condition performance. The overall trend from 63.2% in 2019 to 70.7% for year 2023 for pavements on the Interstate in good condition has seen significant progress since implementation of the STAMP/10-Year Plan

The National Highway System (NHS) in South Carolina includes only 13,260 lane miles, approximately 15% of the total SCDOT roadway inventory lane miles of about 90,682

Figure 12. South Carolina Roadway Network Inventory

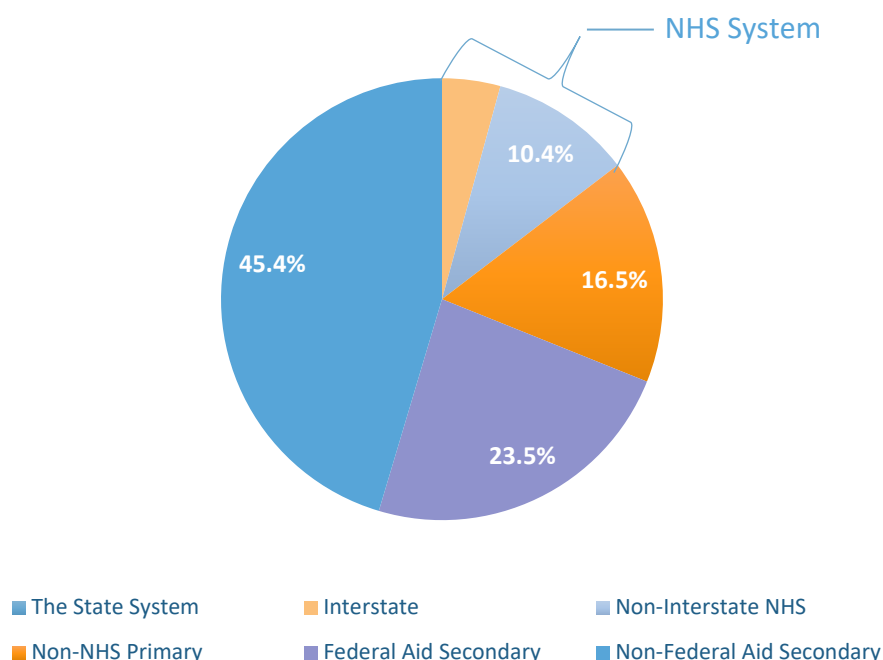


Figure 13. Interstate Pavements in Good Condition (Federal Metric)

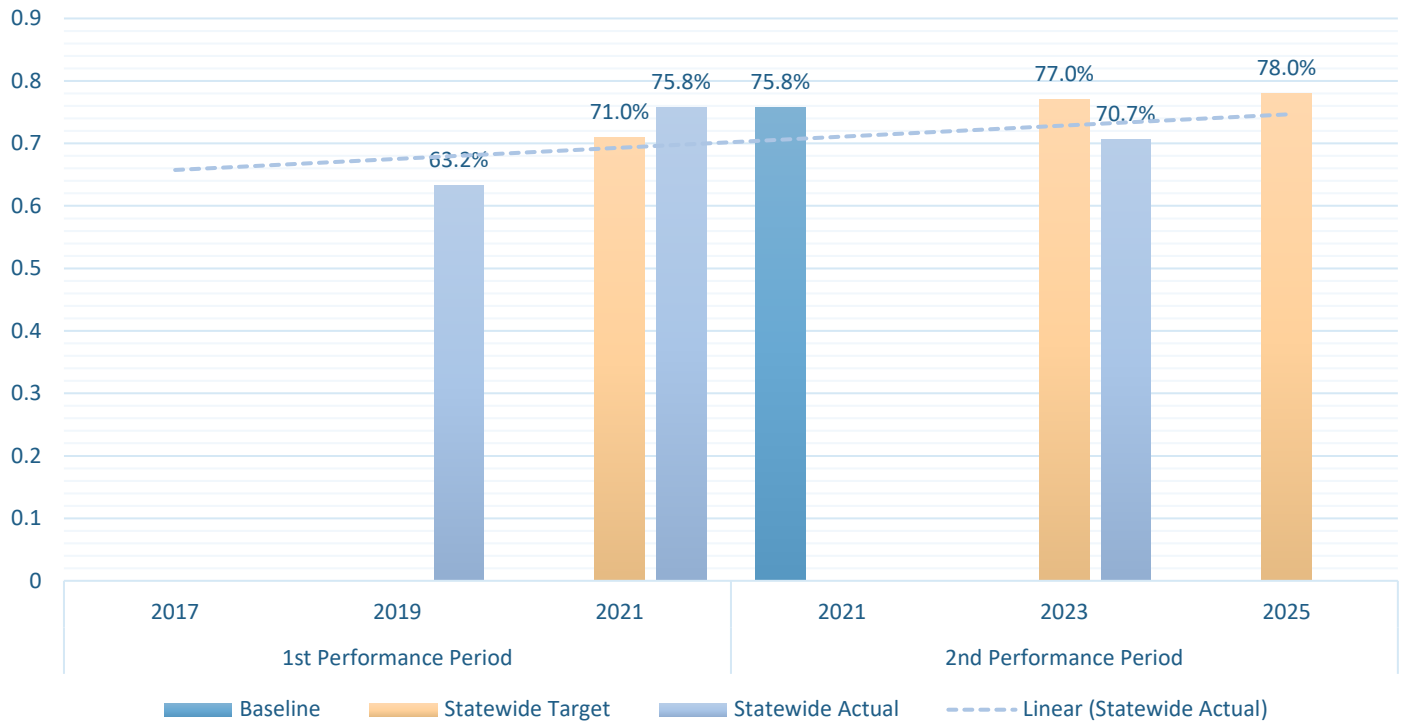


Figure 14. Interstate Pavements in Poor Condition (Federal Metric)

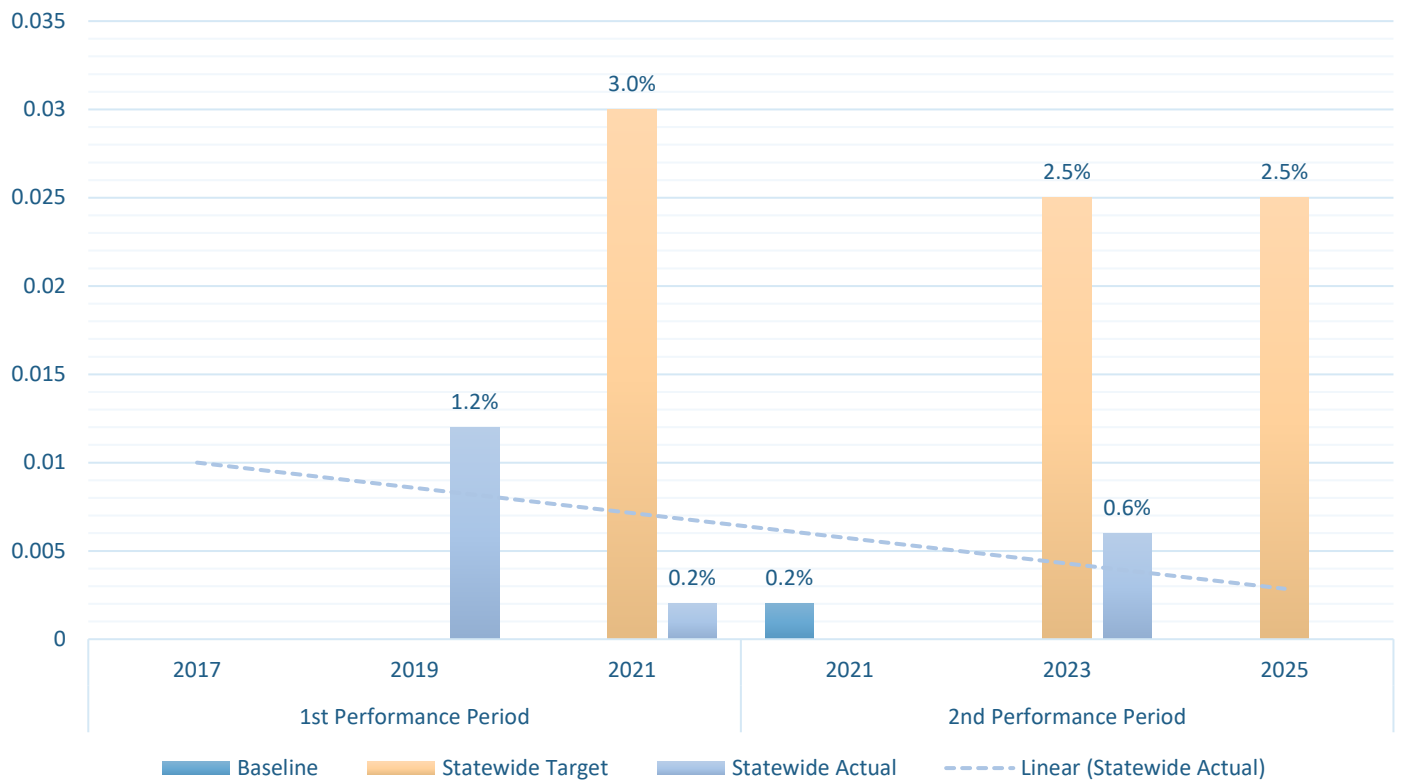


Figure 15. Non-Interstate NHS Pavements in Good Condition (Federal Metric)

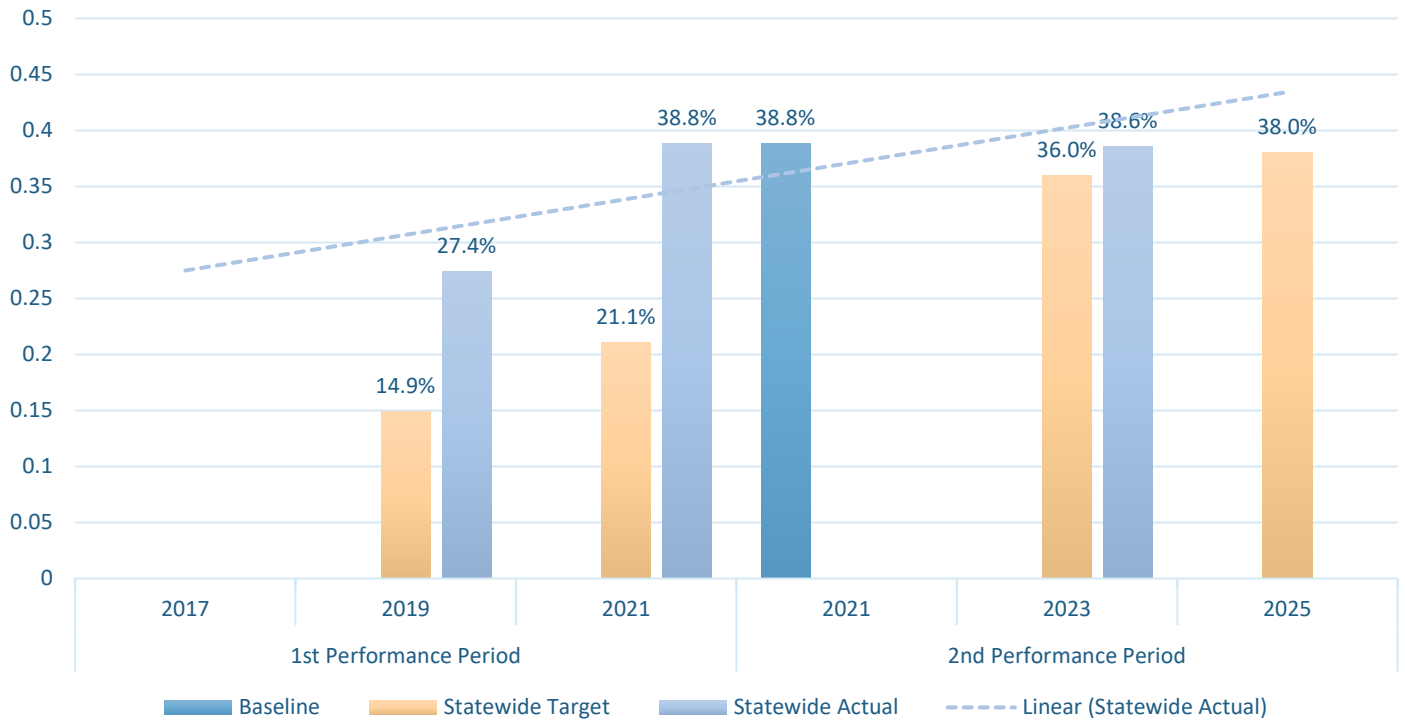
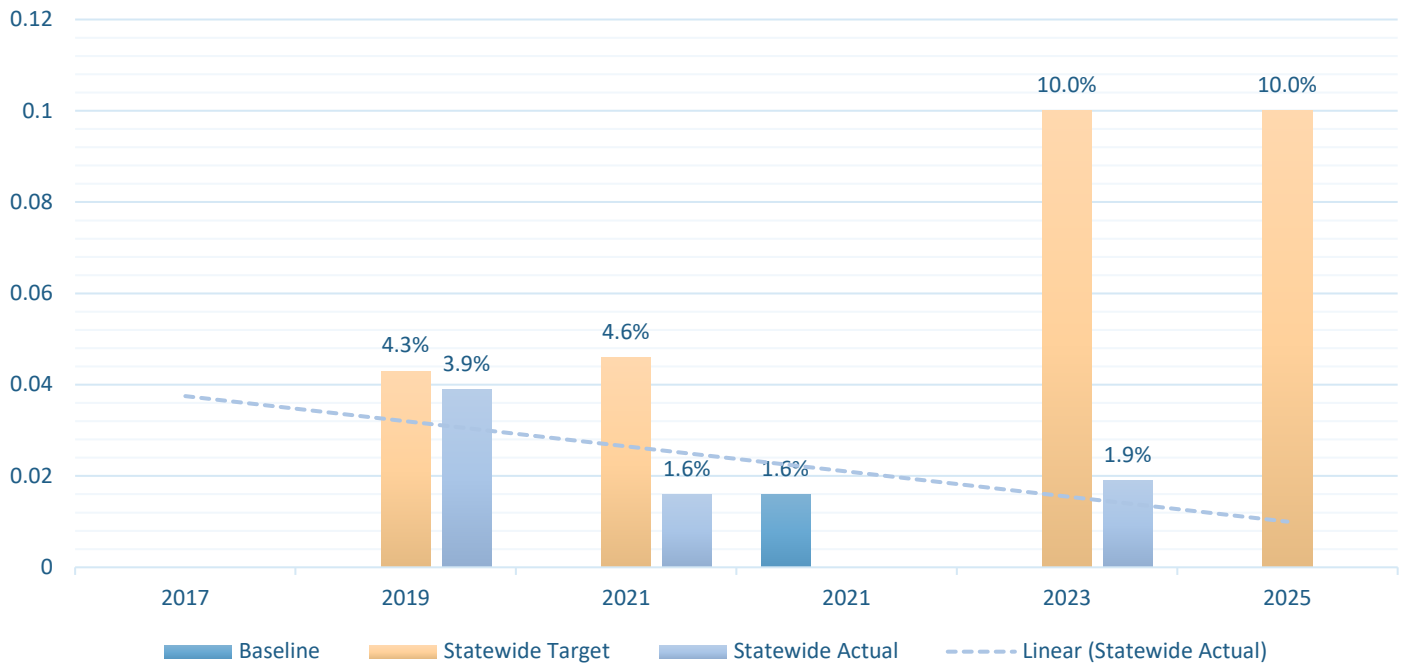


Figure 16. Non-Interstate NHS Pavements in Poor Condition (Federal Metric)



MPO and COG PAVEMENT CONDITION

MPO and COG regional pavement conditions on the Interstate and Non-Interstate NHS are shown in Figure 19-22 and 25-28. In the following figures the pavement conditions are shown in the metric of Pavement Quality Index (PQI) instead of the Federal Metric required for Transportation Performance Management (TPM) reporting. PQI is used to evaluate the pavement surface characteristics and was developed for South Carolina to reflect the types of pavement deterioration typically found within the State. The PQI metric is the preferred performance metric for reporting throughout the agency and for project selection criteria. Data sourced for these charts was aggregated from the SCDOT Performance Viewer, finalized PQI year-end 2023 data, see Appendix A for tables. Figures 17, 18, 23 and 24 show centerline mile inventory by region (note that SUATS, GSATS, and Wacamaw COG have no Interstate miles).

Figure 17. MPO Interstate Centerline Miles and Percentage

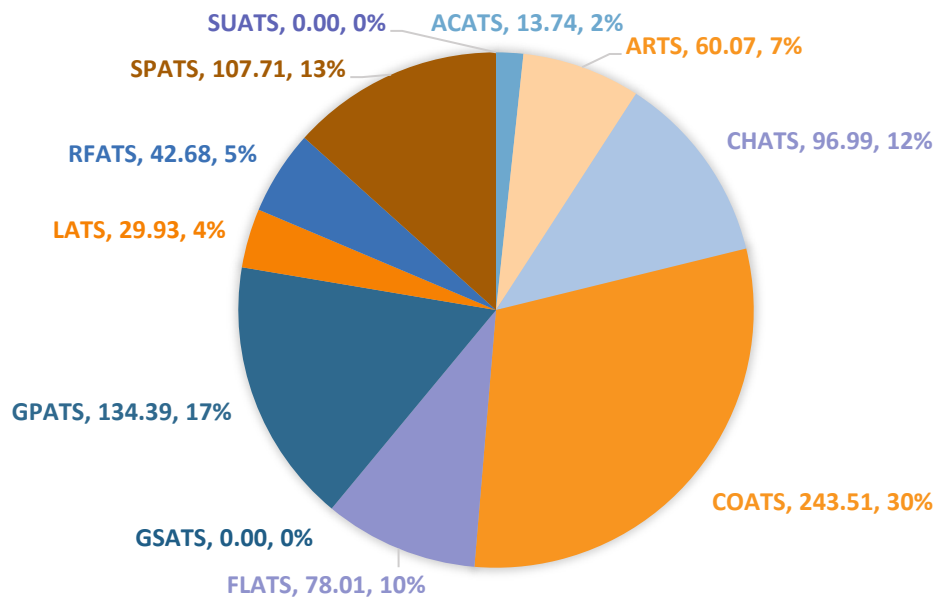


Figure 18. MPO Non-Interstate NHS Centerline Miles and Percentage

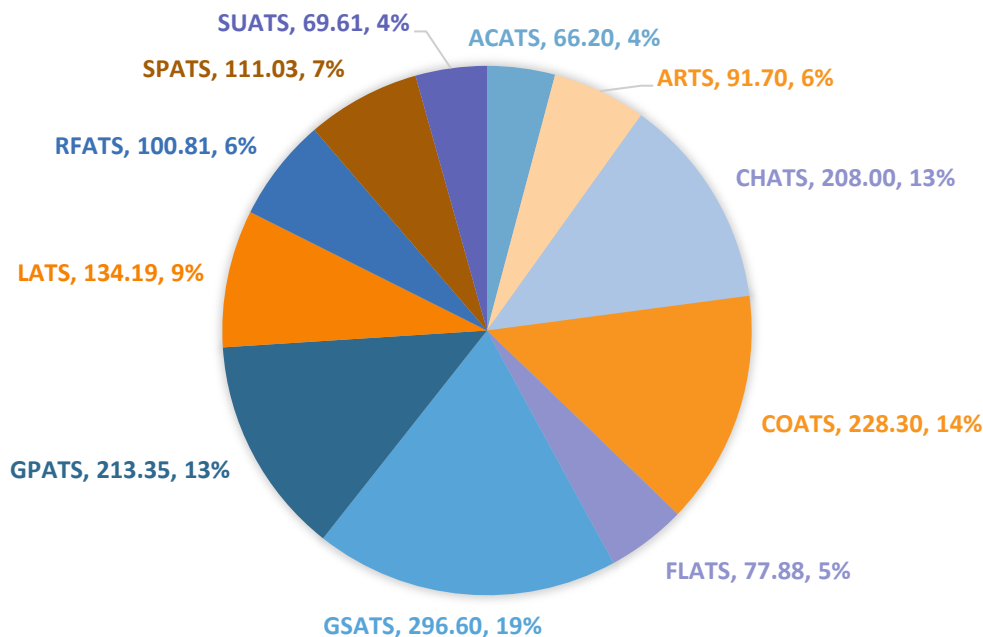


Figure 19. MPO Interstate Pavements in Good Condition (PQI)

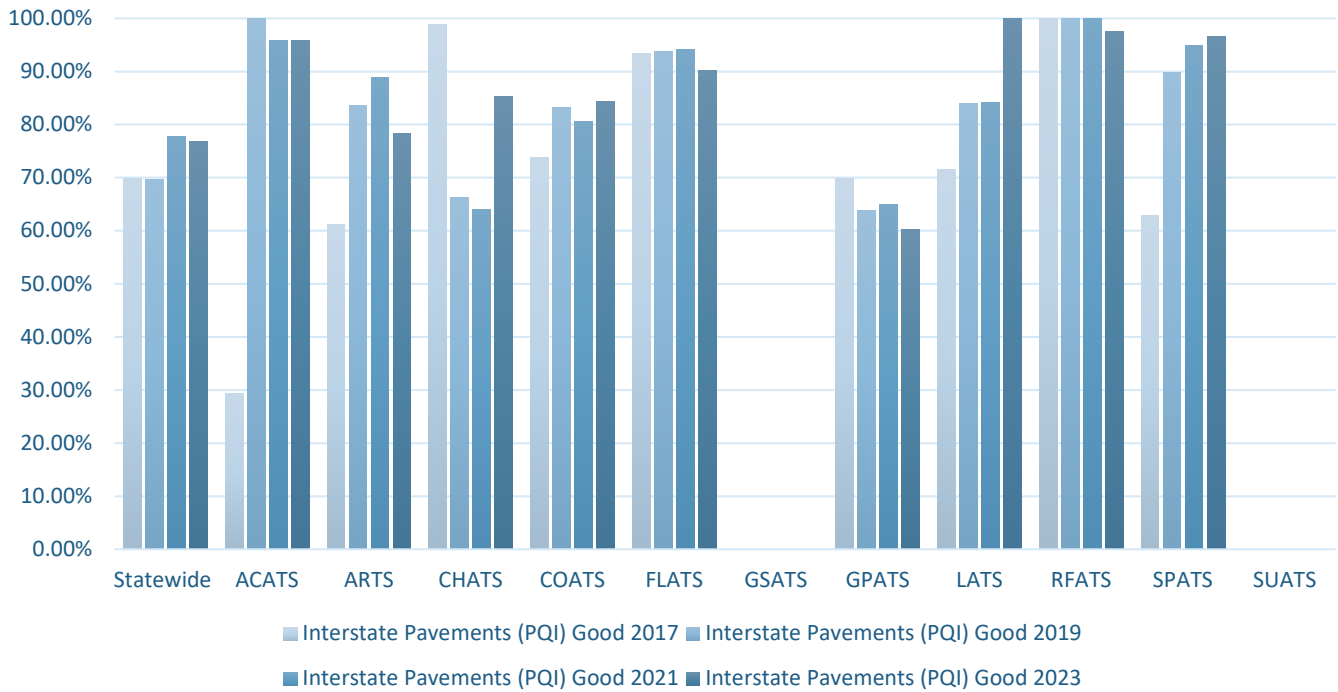


Figure 20. MPO Interstate Pavements in Poor Condition (PQI)

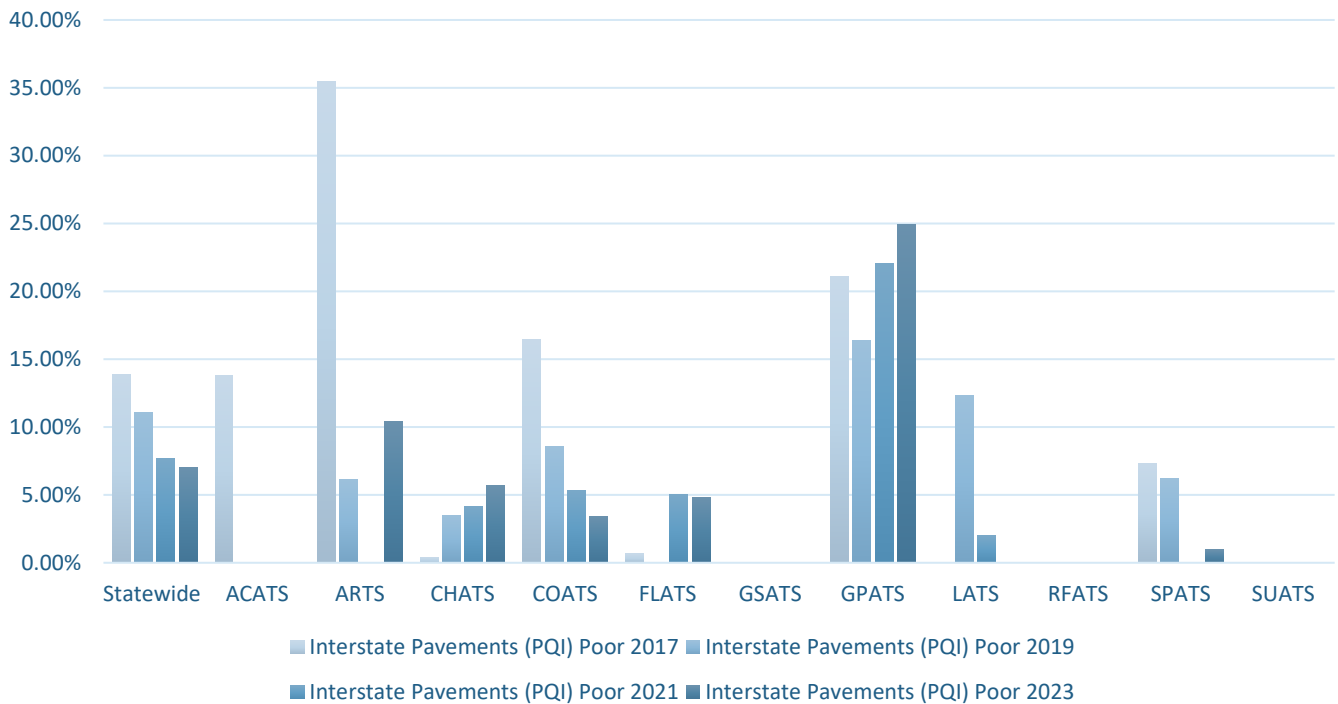


Figure 21. MPO Non-Interstate NHS Pavements in Good Condition (PQI)

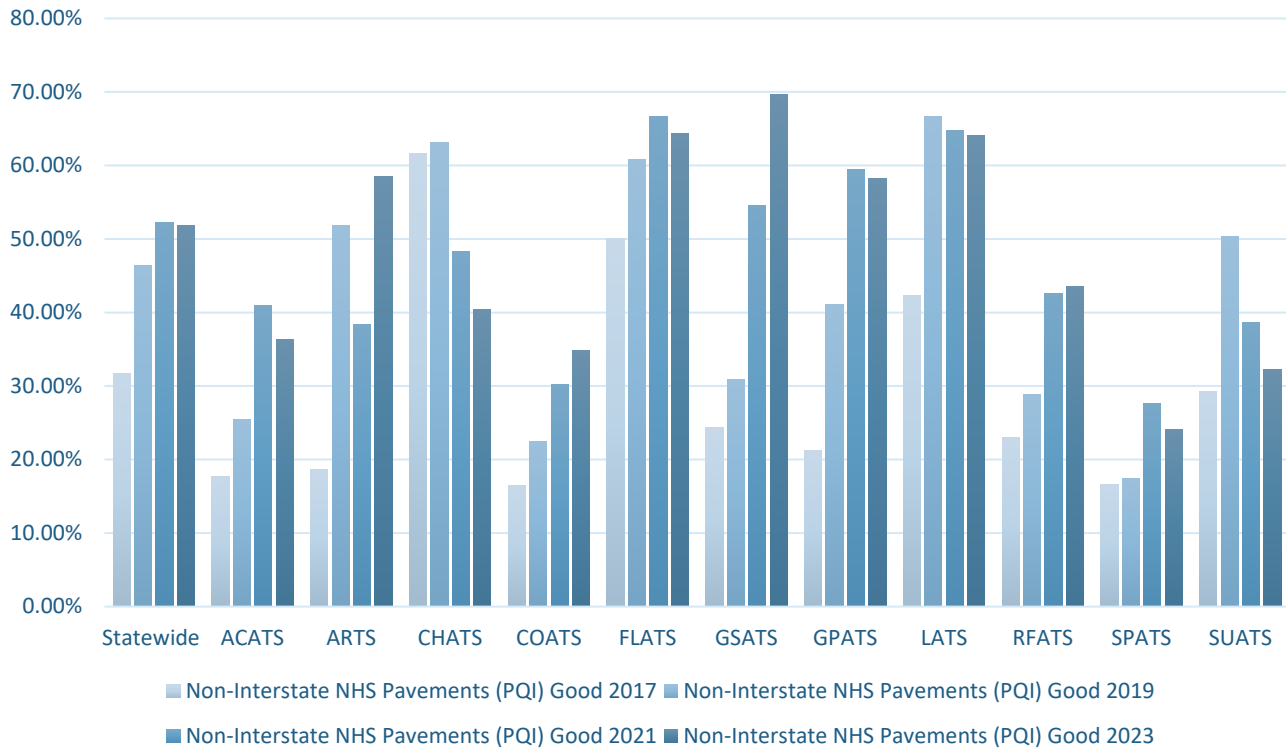


Figure 22. MPO Non-Interstate NHS Pavements in Poor Condition (PQI)

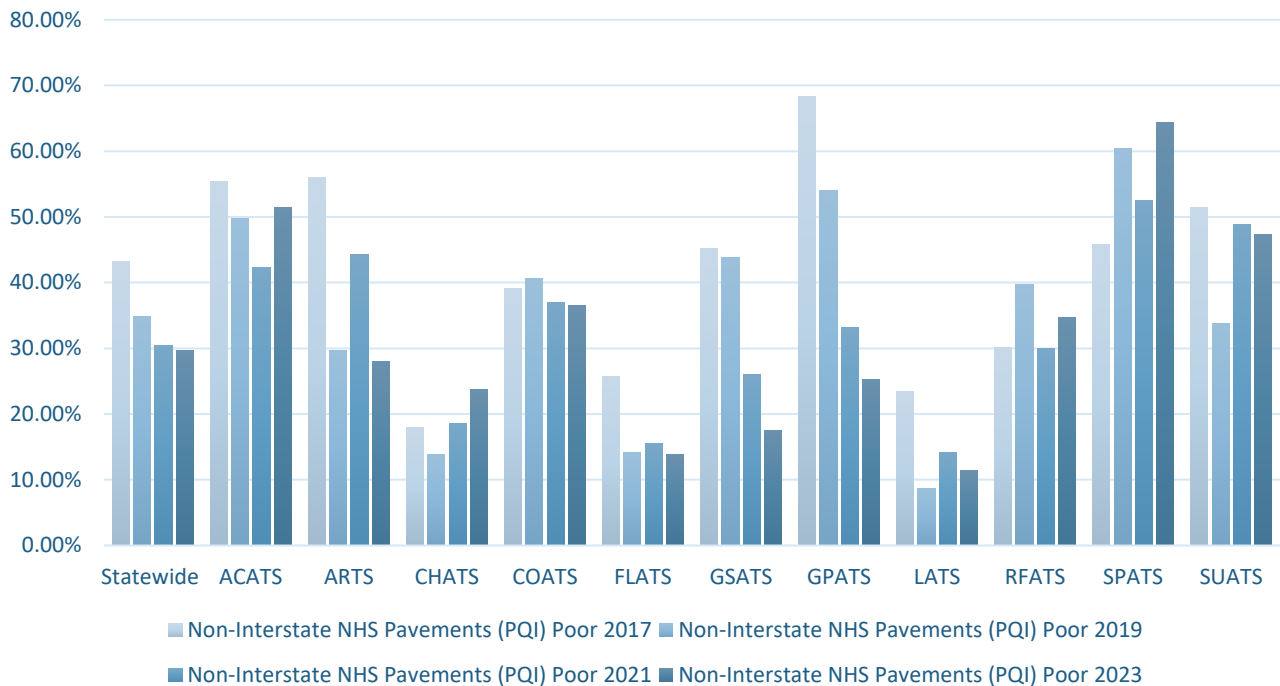


Figure 23. COG Interstate Centerline Miles and Percentage

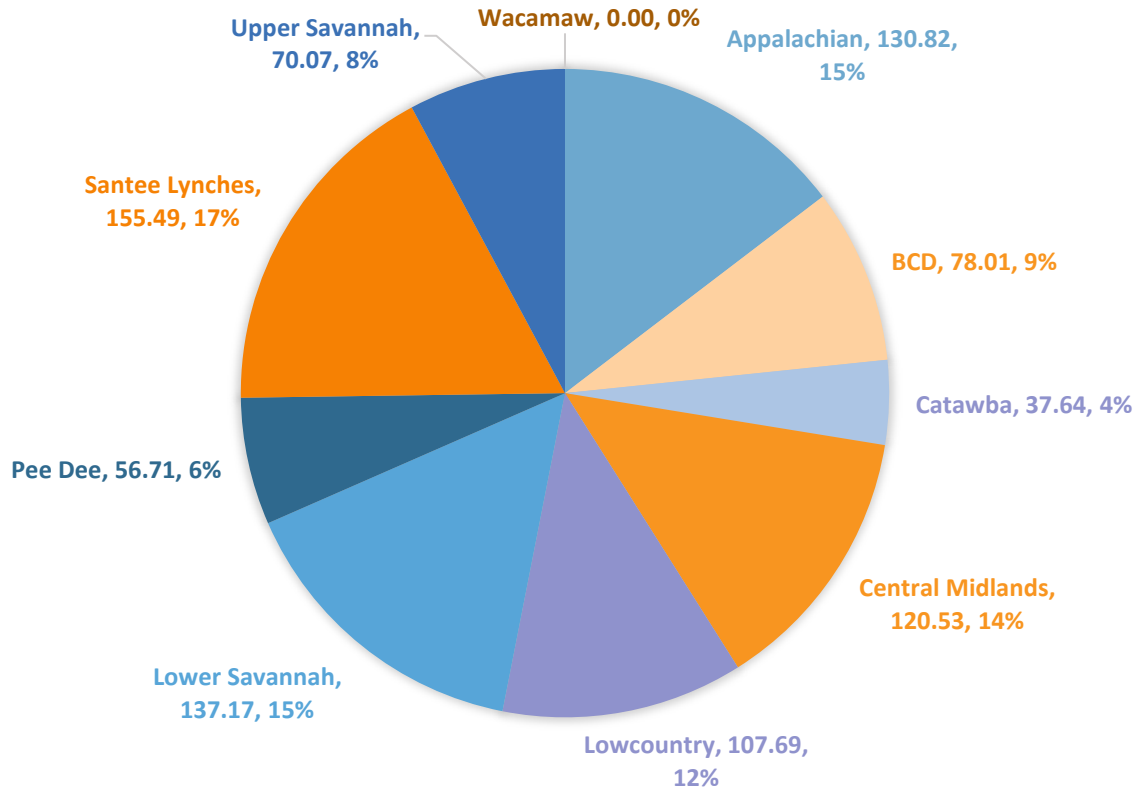


Figure 24. COG Non-Interstate NHS Centerline Miles and Percentage

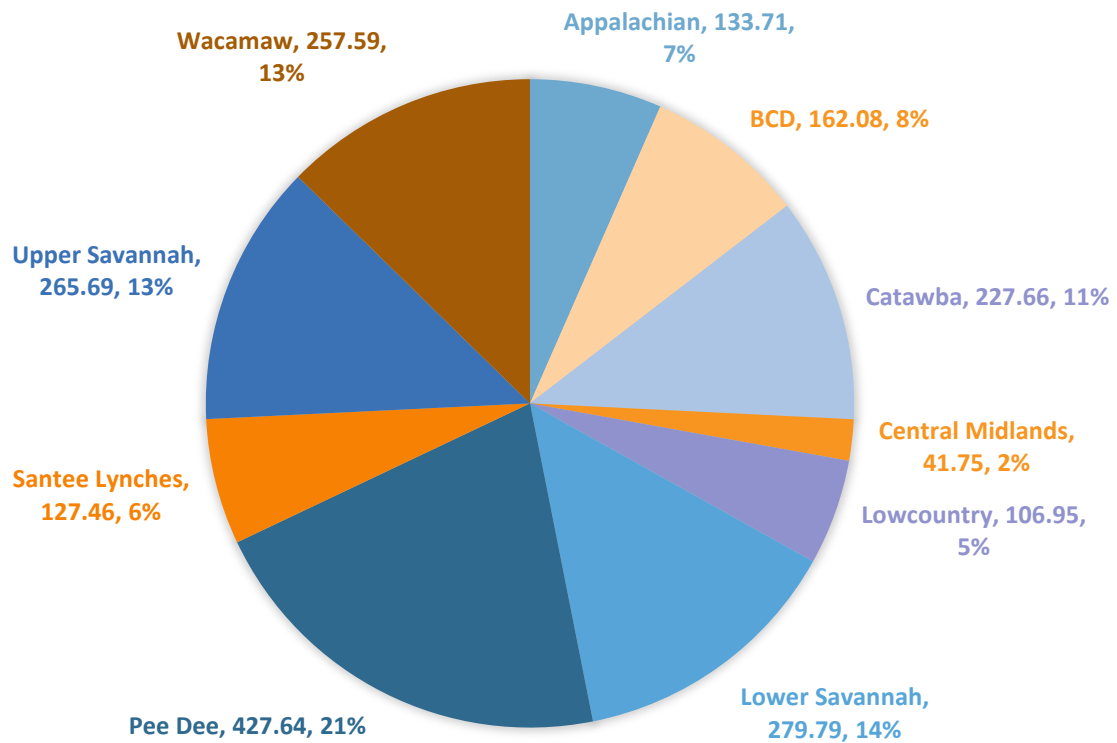


Figure 25. COG Interstate Pavements in Good Condition (PQI)

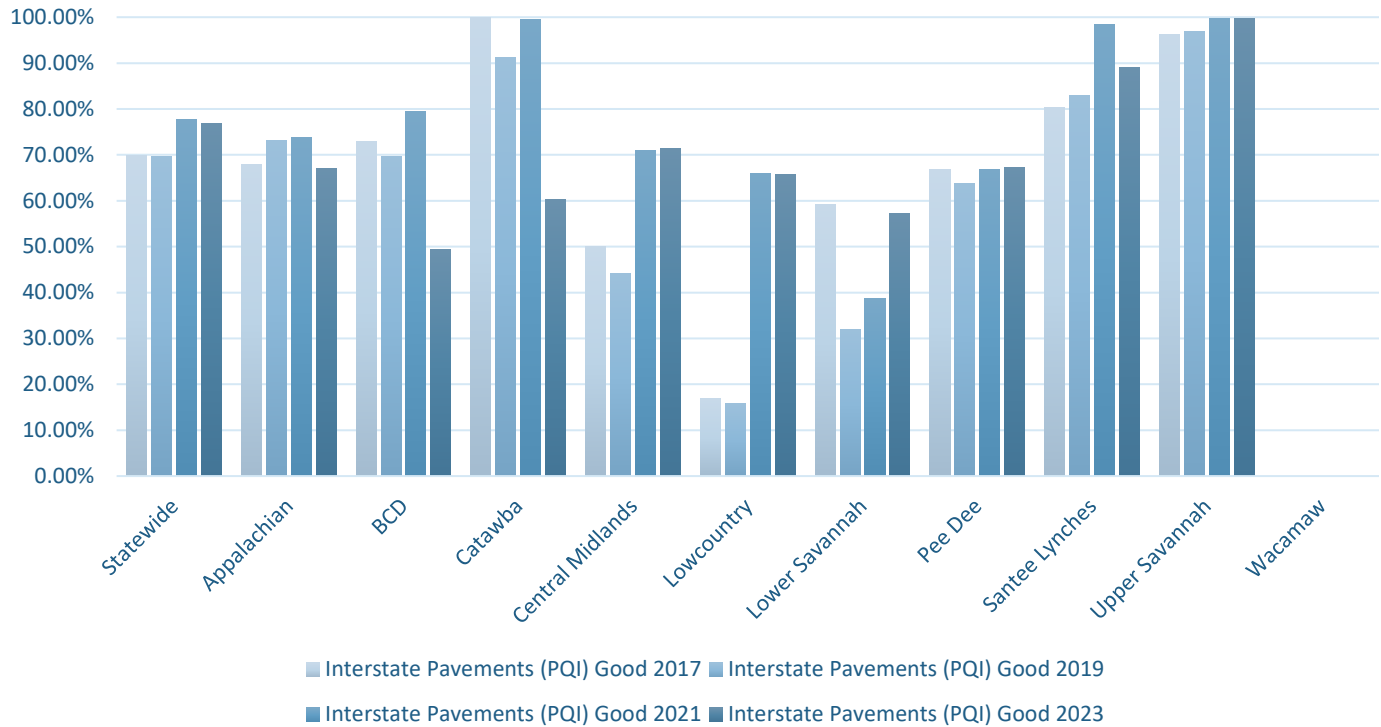


Figure 26. COG Interstate Pavements in Poor Condition (PQI)

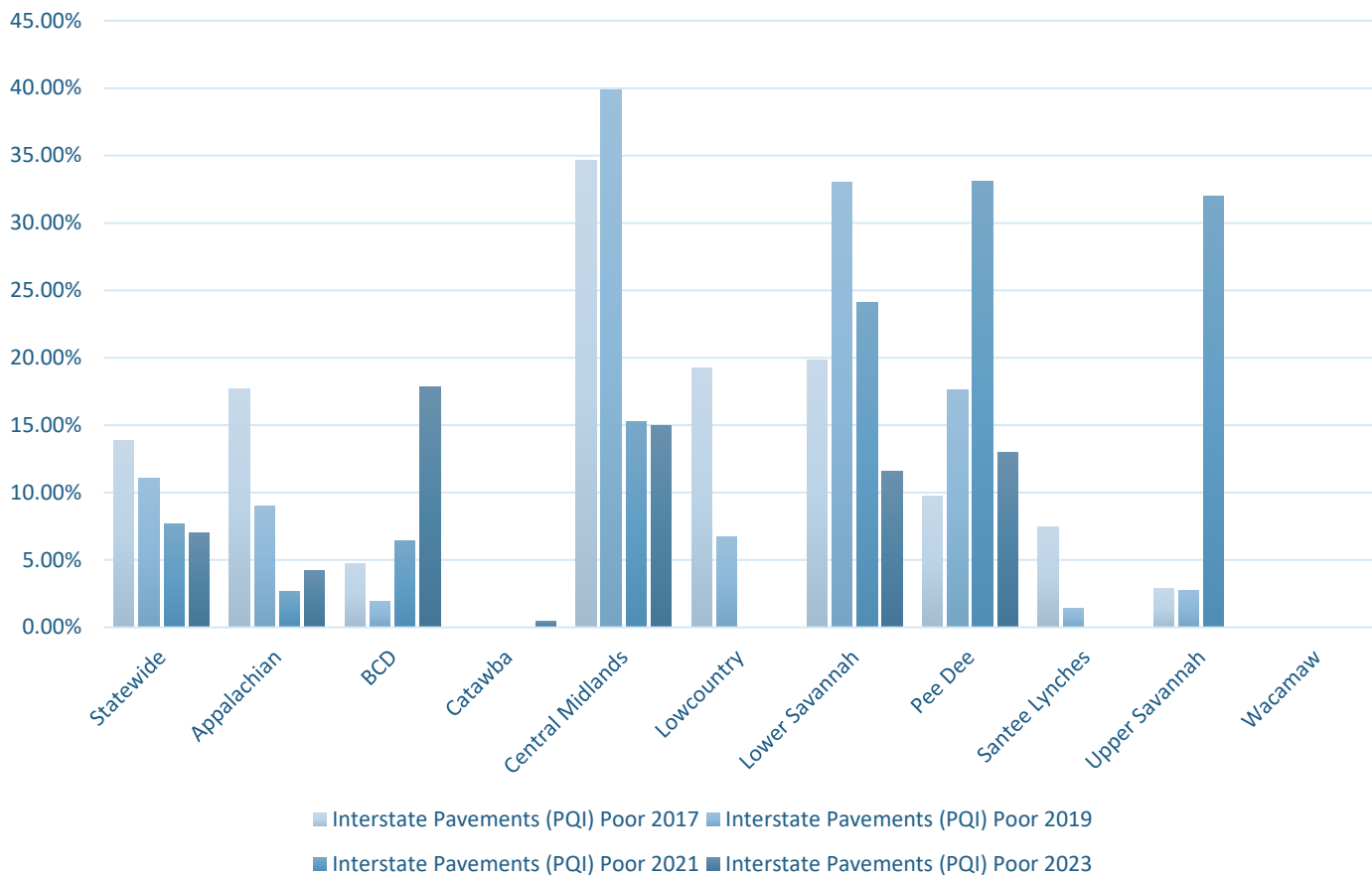


Figure 27. COG Non-Interstate NHS Pavements in Good Condition (PQI)

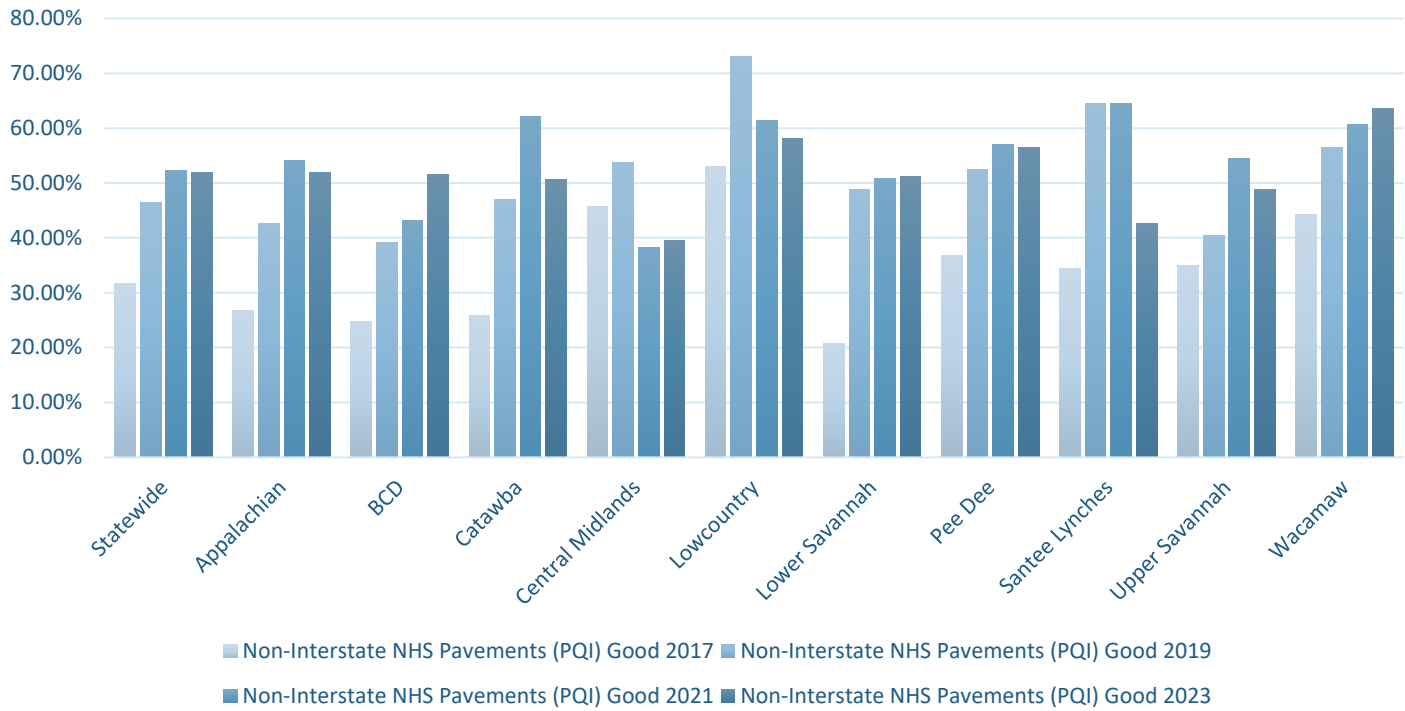
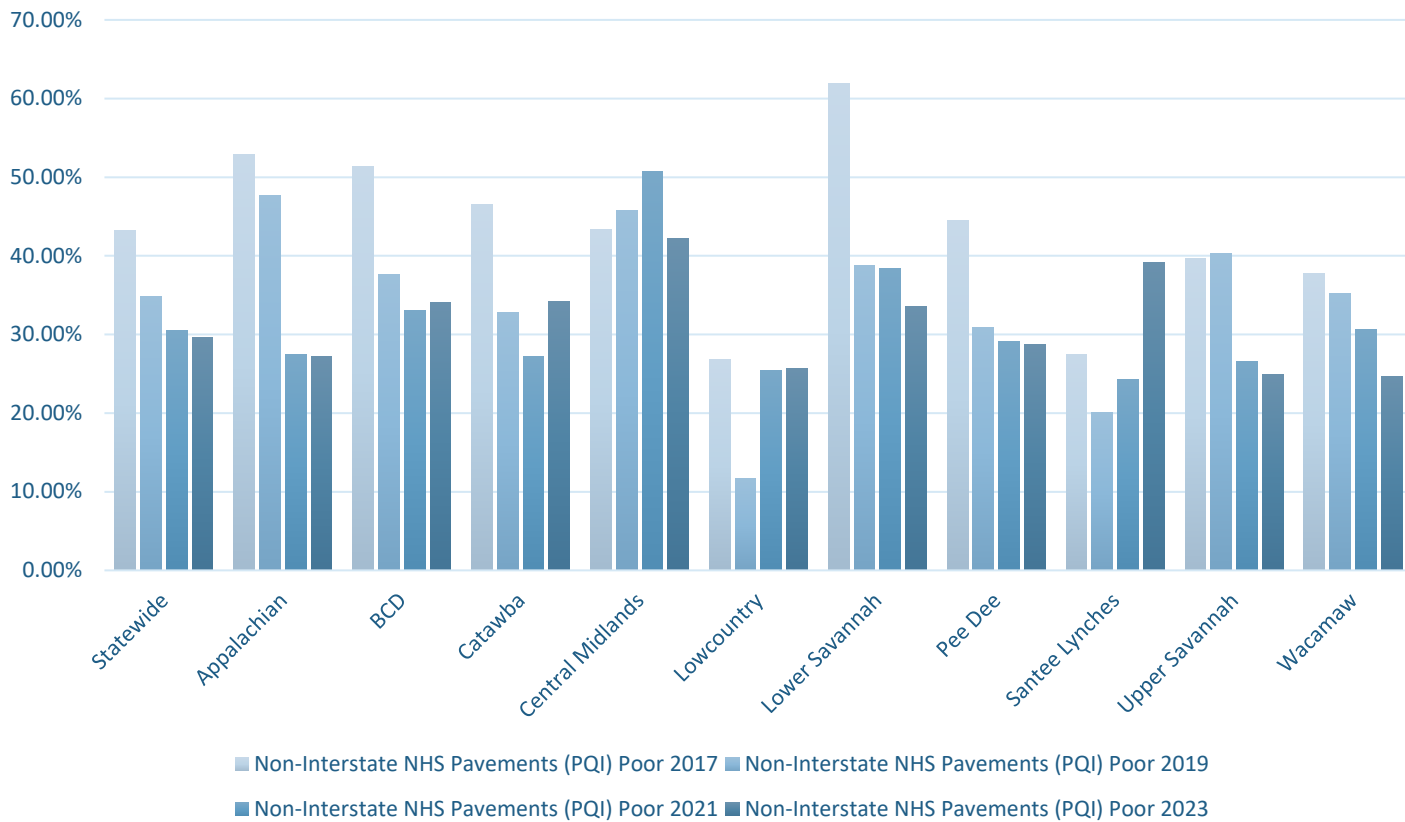


Figure 28. COG Non-Interstate NHS Pavements in Poor Condition (PQI)



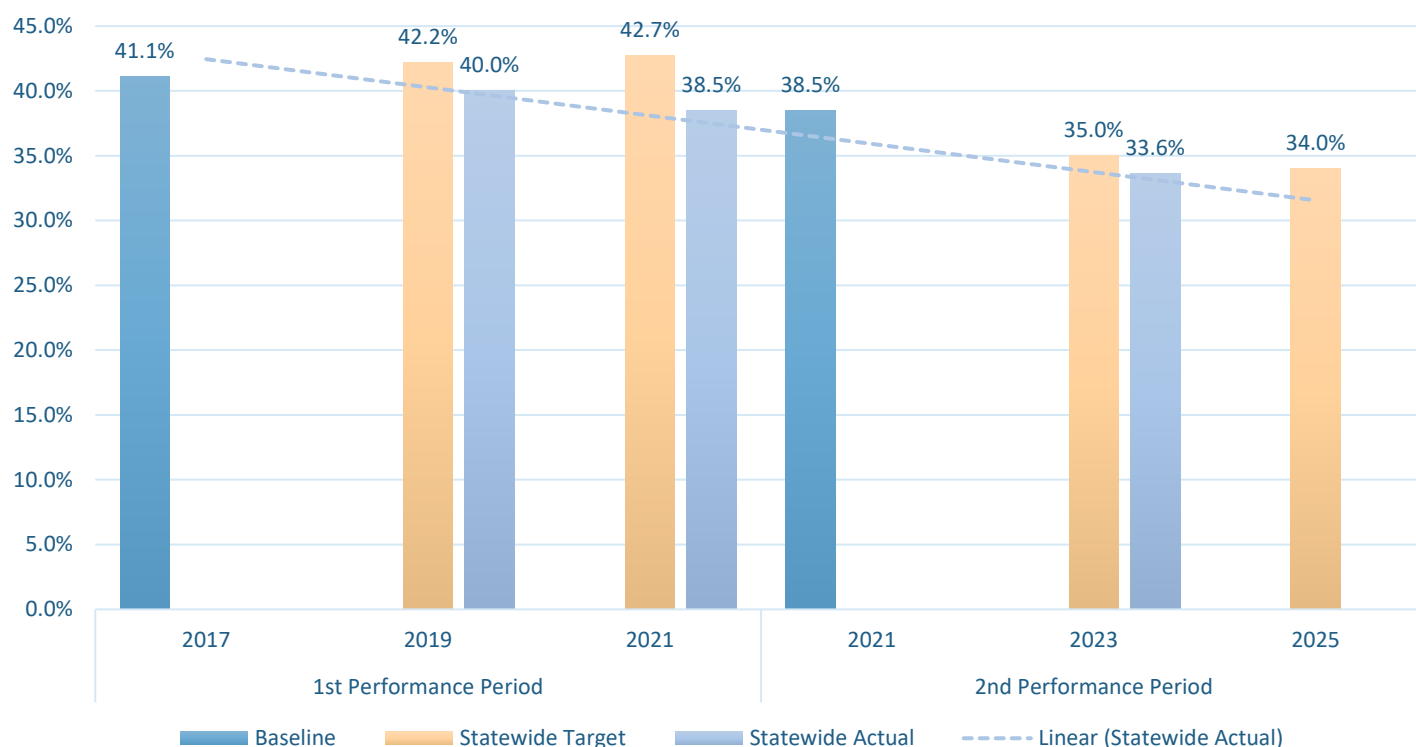
PM-2 STATEWIDE BRIDGE CONDITION

SCDOT's Bridge Program was completely restructured in the middle of SFY 2022, changes to the program are detailed in the 2022 STAMP⁶ update. The agency has targeted load-restricted bridges in poor condition on the network that create inefficiencies and unnecessary delays. Additionally, new sub-category programs in the were created to set aside specific funds for Bridge Rehabilitation, Bridge Reactionary Maintenance, Bridge Maintenance and Bridge Inspection to create a more balanced approach to bridge management.

Bridge condition measures refer to the percentage of bridges by deck area on the NHS that are in good condition or poor condition. The measures assess the condition of four bridge components: deck, superstructure, substructure, and culverts. Each component has a metric rating threshold to establish good, fair or poor condition. If the lowest of the four metrics is greater than or equal to seven, the structure is classified as good. If the lowest rating is less than or equal to four, the structure is classified as poor. If the lowest rating is five or six, it is classified as fair. The percent is determined by summing the total deck area of good or poor NHS bridges and dividing the total deck area of the bridges carrying the NHS. Deck area is computed using structure length and either deck width or approach roadway width. The minimum percent poor condition level on NHS bridges shall not exceed 10% for 3 consecutive years (23 CFR 490.411). SCDOT expects the percentage of good deck area on the NHS to decrease during the performance period. At the mid-point of the current performance period (end of 2023), the actual 2-year target of 33.6% was slightly lower than the expected 35.0% of deck are of bridges on the NHS classified as in good condition. A declining target is appropriate given available funding, age and condition of the inventory, and the need to minimize life cycle costs. Significant progress was made on meeting the statewide percentage of bridges on the NHS classified in poor condition and remains well below the threshold of 10%. See Figures 29 and 30.

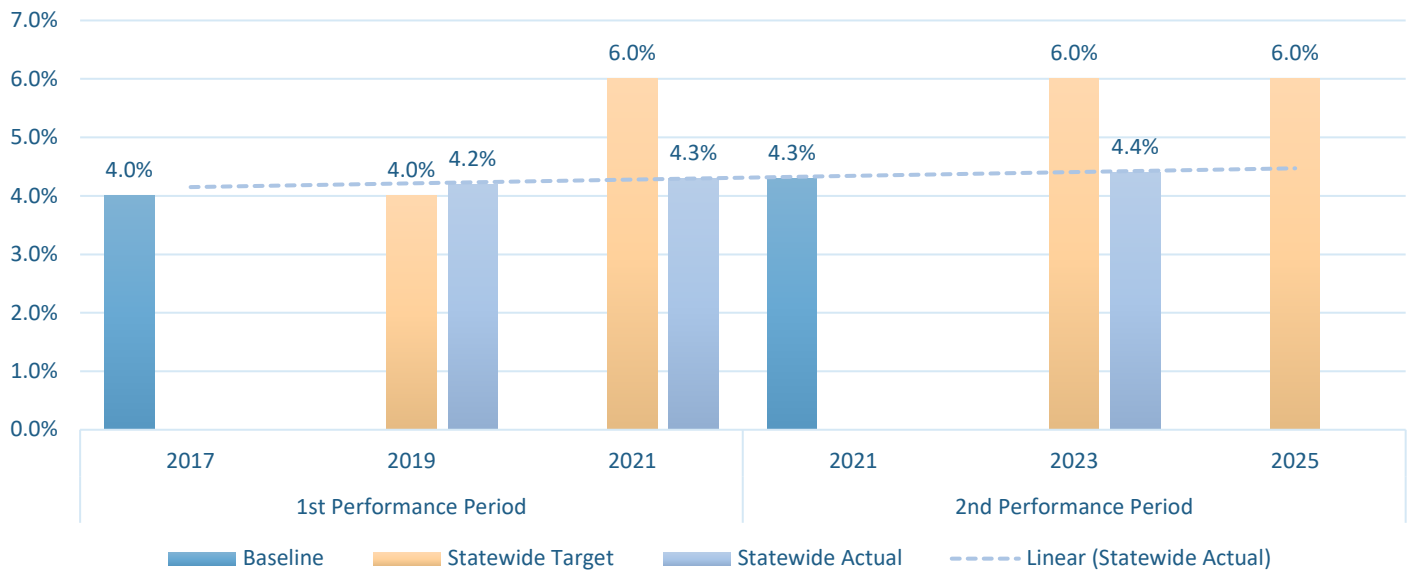
The National Highway System (NHS) in South Carolina includes 1,780 bridges, approximately 22% of the total SCDOT inventory of about 8,445 bridges

Figure 29. NHS Bridges in Good Condition (% Overall Deck Area)



⁶ <https://www.scdot.org/content/dam/scdot-legacy/performance/pdf/reports/STAMP.pdf>

Figure 30. NHS Bridges in Poor Condition (% Overall Deck Area)



MPO AND COG BRIDGE CONDITION

MPO and COG regional bridge conditions are shown in Figure 32, 33, 35 and 36 with statewide actuals conditions and targets compared over time. For data used to create these figures see Appendix A.

Figure 31. MPO NHS Bridge Inventory by Square Footage of Deck Area

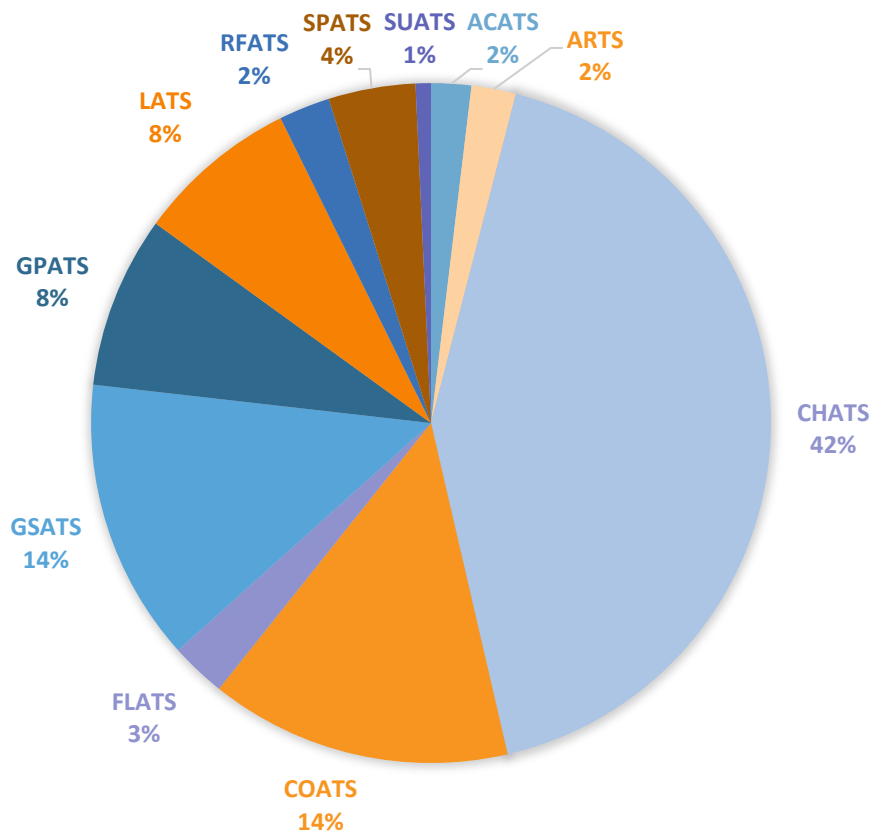


Figure 32. MPO NHS Bridges in Good Condition (SF Deck Area)

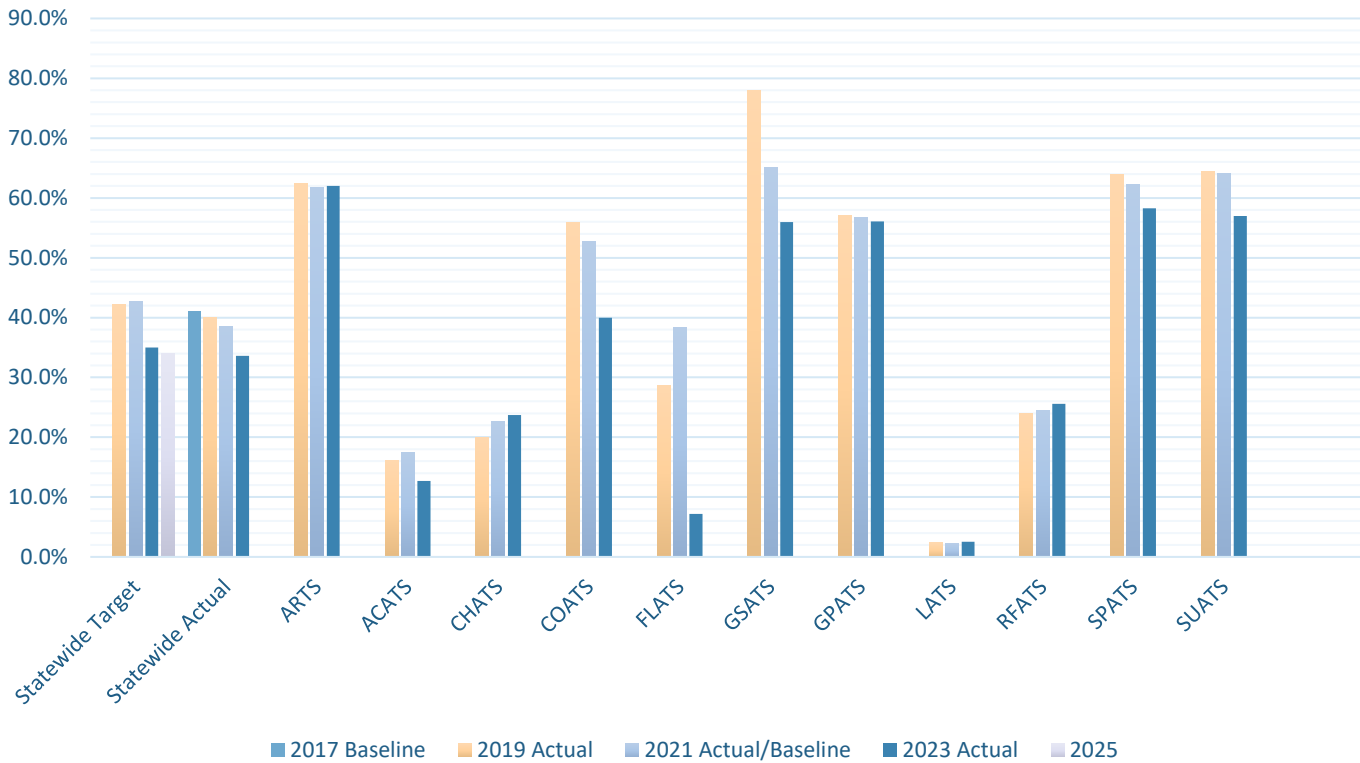


Figure 33. MPO NHS Bridges in Poor Condition (SF Deck Area)

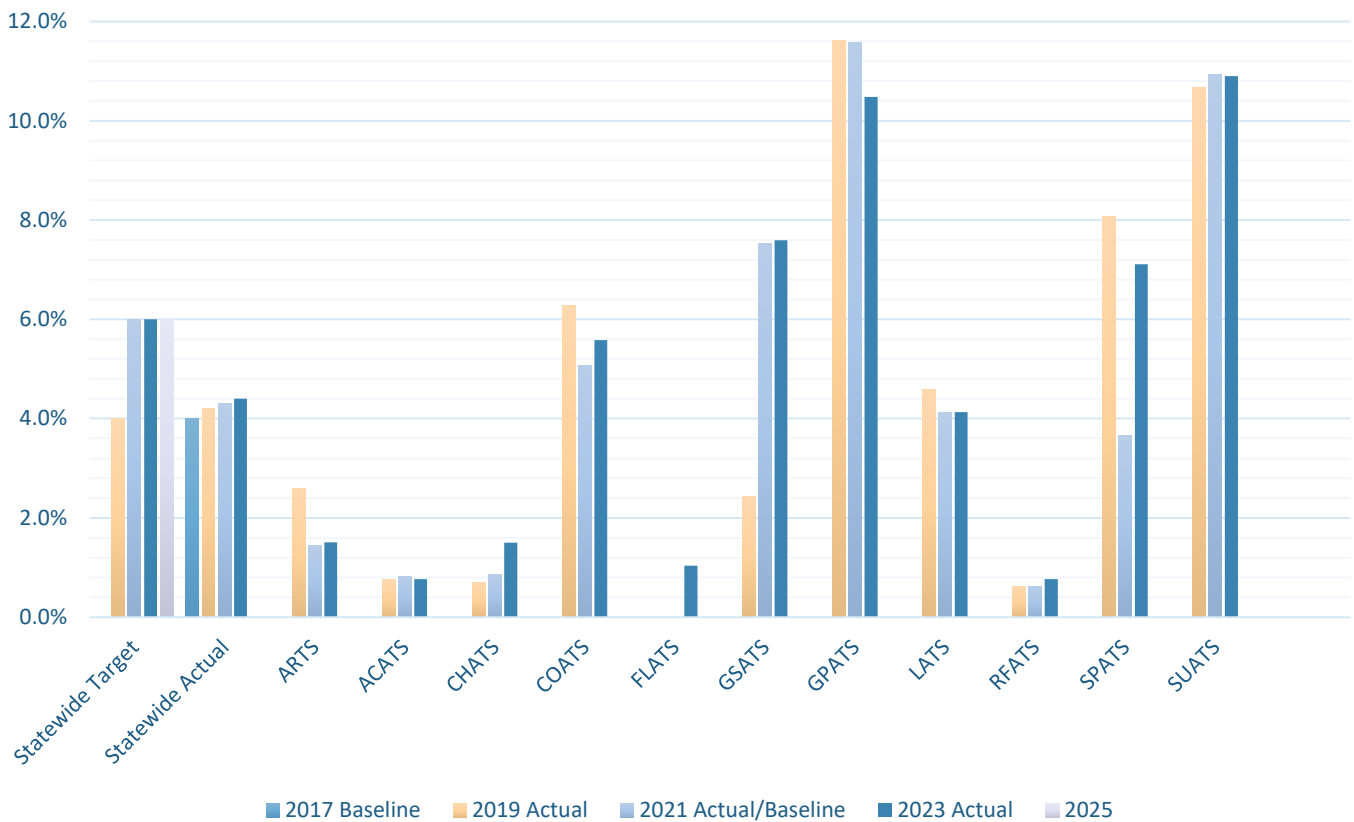


Figure 34. COG NHS Bridge Inventory by Square Footage of Deck Area

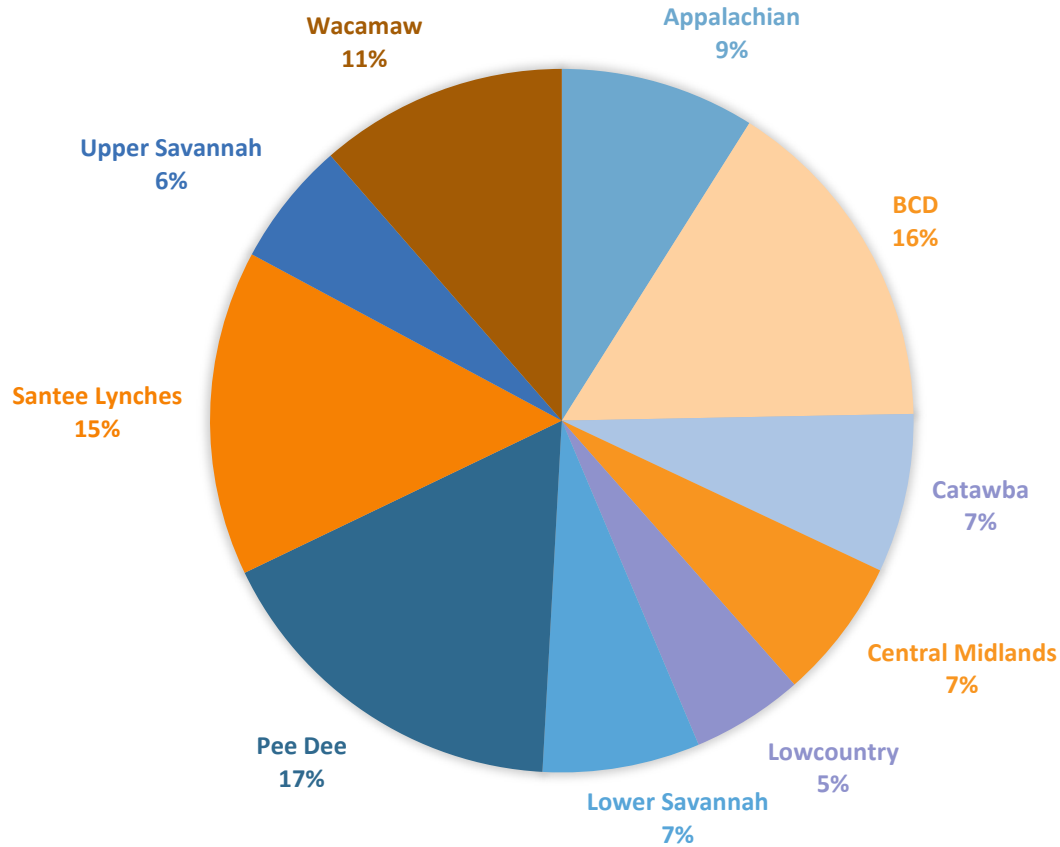


Figure 35. COG NHS Bridges in Good Condition (SF Deck Area)

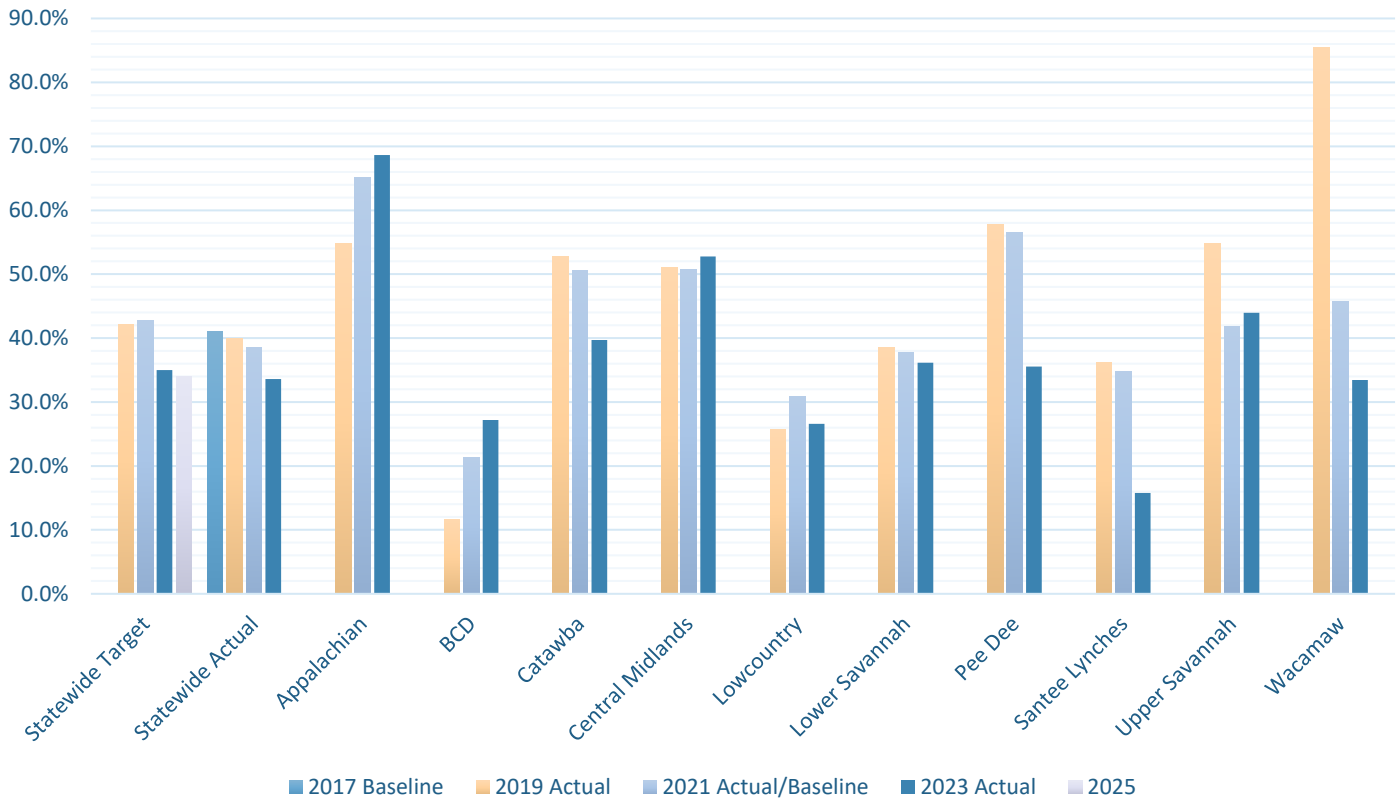
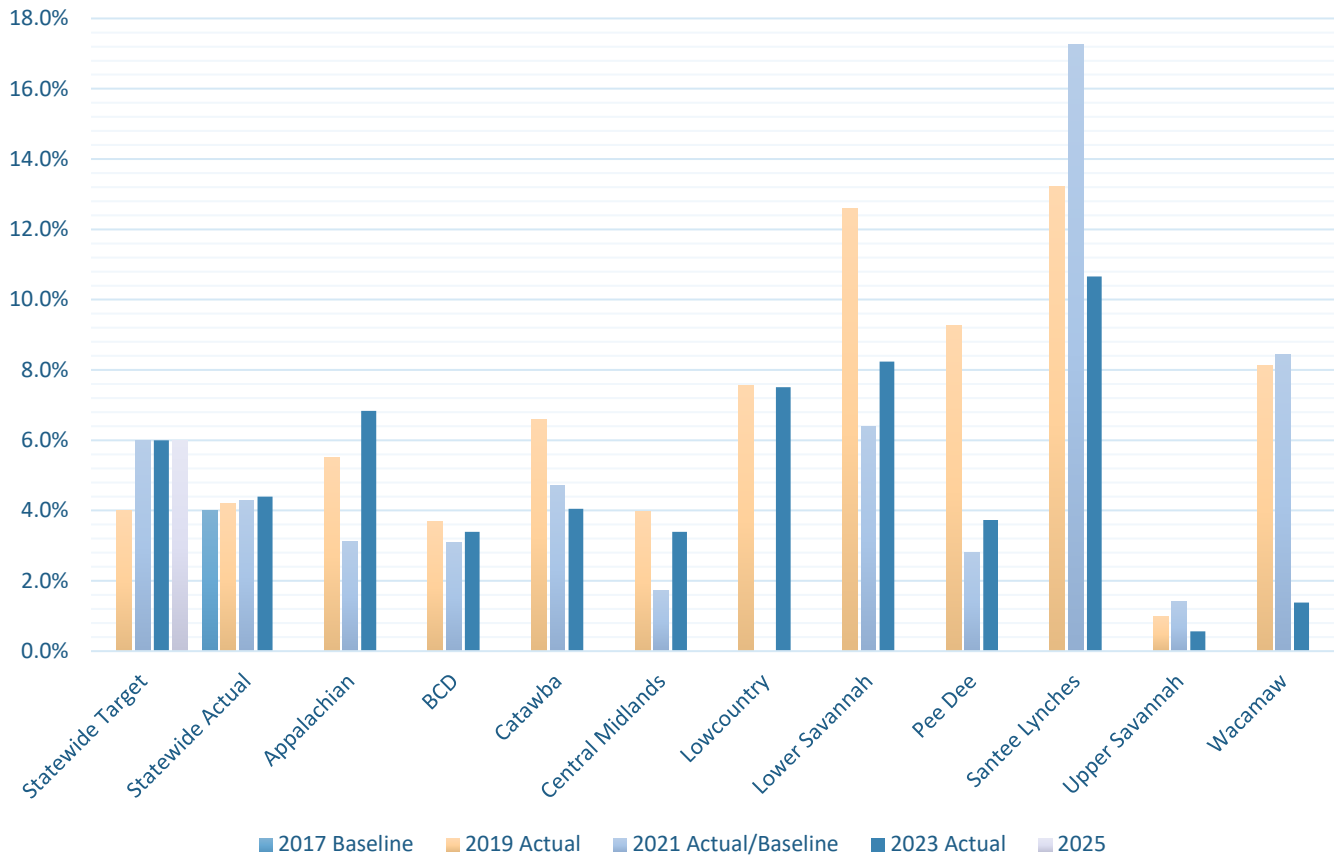


Figure 36. COG NHS Bridges in Poor Condition (SF Deck Area)



PM3 STATEWIDE MOBILITY

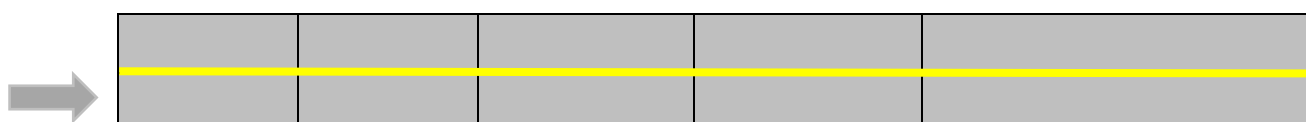
FHWA established measures to assess the performance and reliability of the National Highway System and freight movement on the interstate. Travel time reliability is how consistent or predictable travel conditions are for a trip or on a certain road. Some roads have very repeatable and consistent conditions day-to-day and are considered “reliable”, while others are more inconsistent with delays and travel times and are considered “unreliable”. A congested road is still considered reliable if the congestion is consistent and there are predictable travel times at certain times of the day. Level of Travel Time Reliability (LOTTR) measures the variability of travel times that occur on a facility or trip over a period of time. Reliability measures the benefit of traffic management and is significant to everyone who uses the transportation network, whether they’re motor vehicle users, transit, freight or others.

LOTTR is defined as the ratio of longer travel times (80th percentile) to a “normal” travel time (50th percentile) using data from the Federal Highway Administration’s National Performance Management Research Data Set (NPMRDS). Data is collected in 15-minute segments during four time periods:

- Morning Peak (6am-10am) Monday-Friday
- Midday (10am-4pm) Monday-Friday
- Afternoon Peak (4pm-8pm) Monday-Friday
- Weekends (6am-8pm)

The ratio is expressed as a percentage of the person miles traveled that are reliable through the sum of the number of reliable person miles traveled divided by the sum of total person miles traveled. For an example of how travel time reliability is measure see Figure 37. Performance is reported for percent person miles traveled on the Interstate and the Non-Interstate NHS that are reliable in Figure 38 and 39.

Figure 37. Calculating Travel Time Reliability Measure



Length	0.5 miles	0.5 miles	1.00 miles	1.00 miles	5.0 miles
6am-10am					
10am-4pm					
4pm-8pm					
Weekend					
Reliable?	No	Yes	No	Yes	Yes

$$\frac{6.5 \text{ reliable miles}}{8.00 \text{ total miles}} = 81.3\% \text{ Reliable}$$

SCDOT’s travel time reliability approach includes factors such as anticipated growth in vehicle miles traveled, and major projects. Evaluations for this performance period indicated that both reliability on the Interstate and Non-Interstate NHS would decline relative to 2021 baseline conditions. Baseline conditions in 2021 may not be fully indicative of post pandemic travel patterns, which was reflected in projected targets.

Figure 38. Percent Person-Miles Traveled on the Interstate that are Reliable

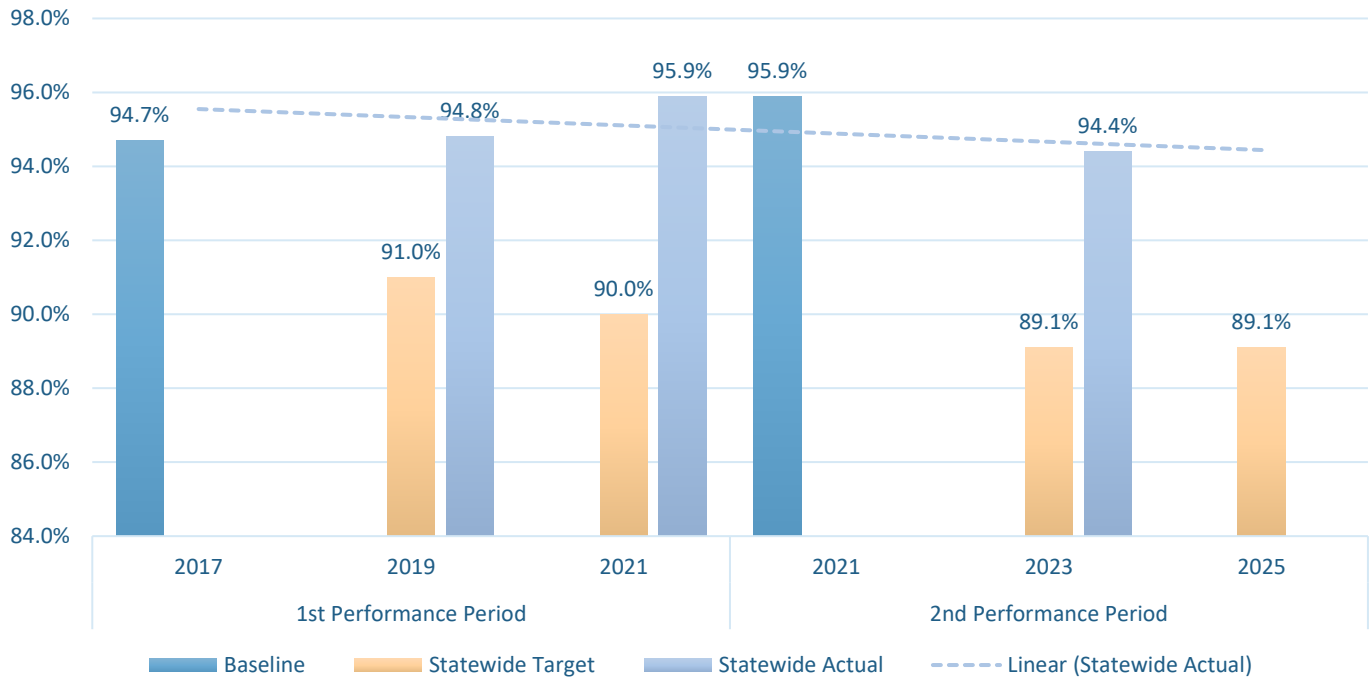
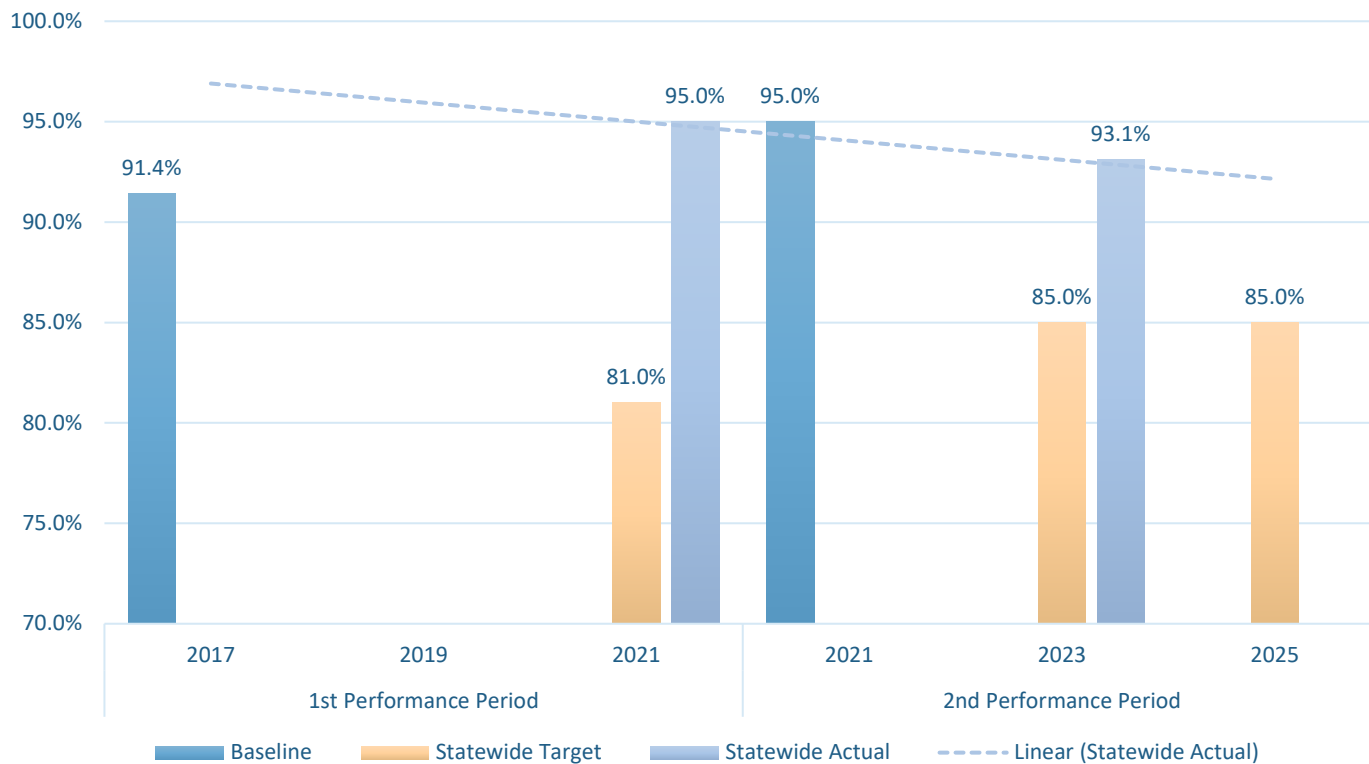


Figure 39. Percent Person-Miles Traveled on the Non-Interstate NHS that are Reliable



MPO AND COG MOBILITY

MPO and COG regional mobility conditions are shown in Figure 40 through 43 with comparison to the statewide actual conditions and targets over time. For data used to create these figures see Appendix A.

Figure 40. Percent of Person-Miles Traveled on the Interstate that are Reliable (MPO)

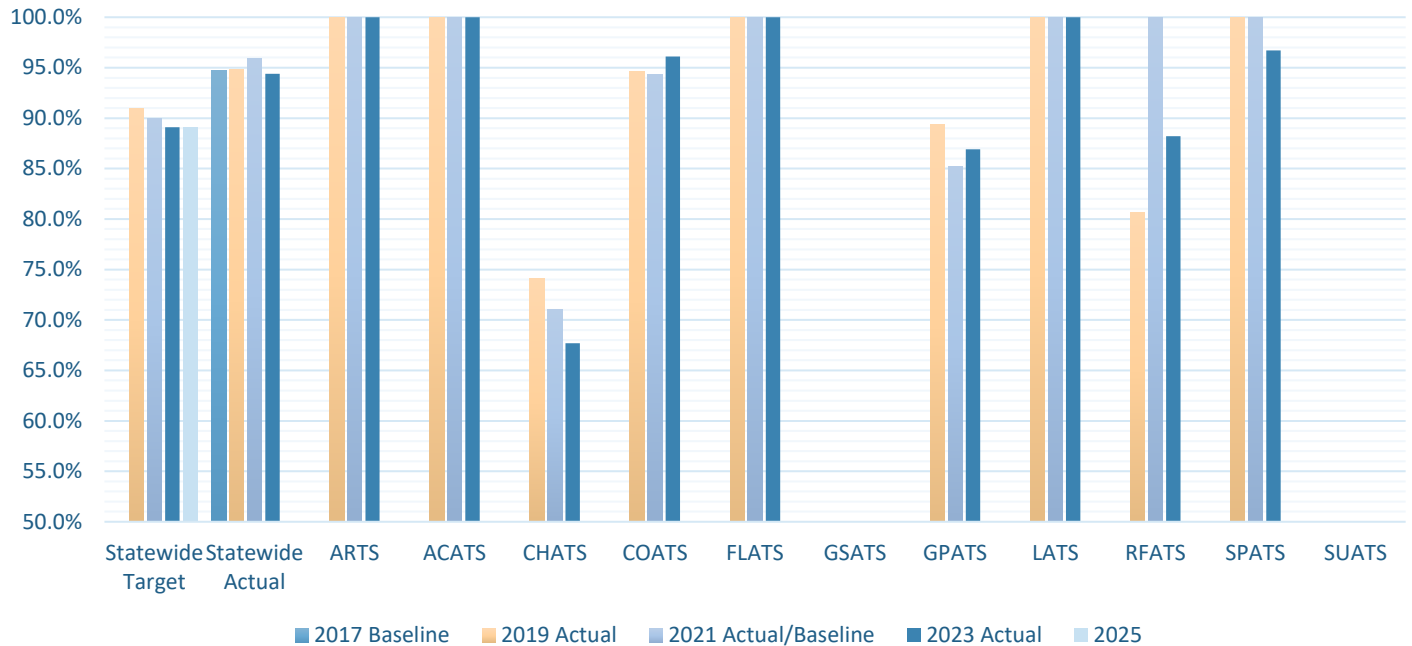


Figure 41. Percent of Person-Miles Traveled on the Non-Interstate NHS that are Reliable (MPO)

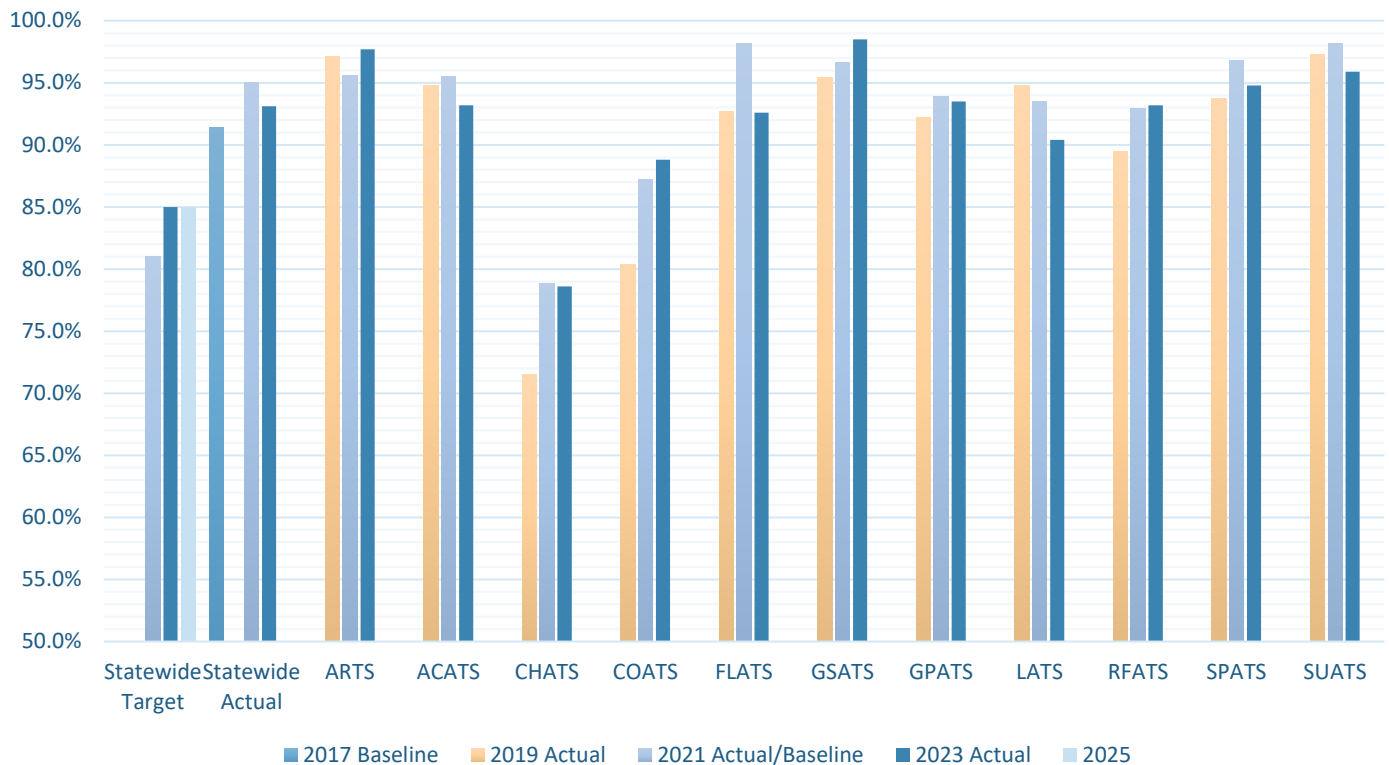


Figure 42. Percent of Person-Miles Traveled on the Interstate that are Reliable (COG)

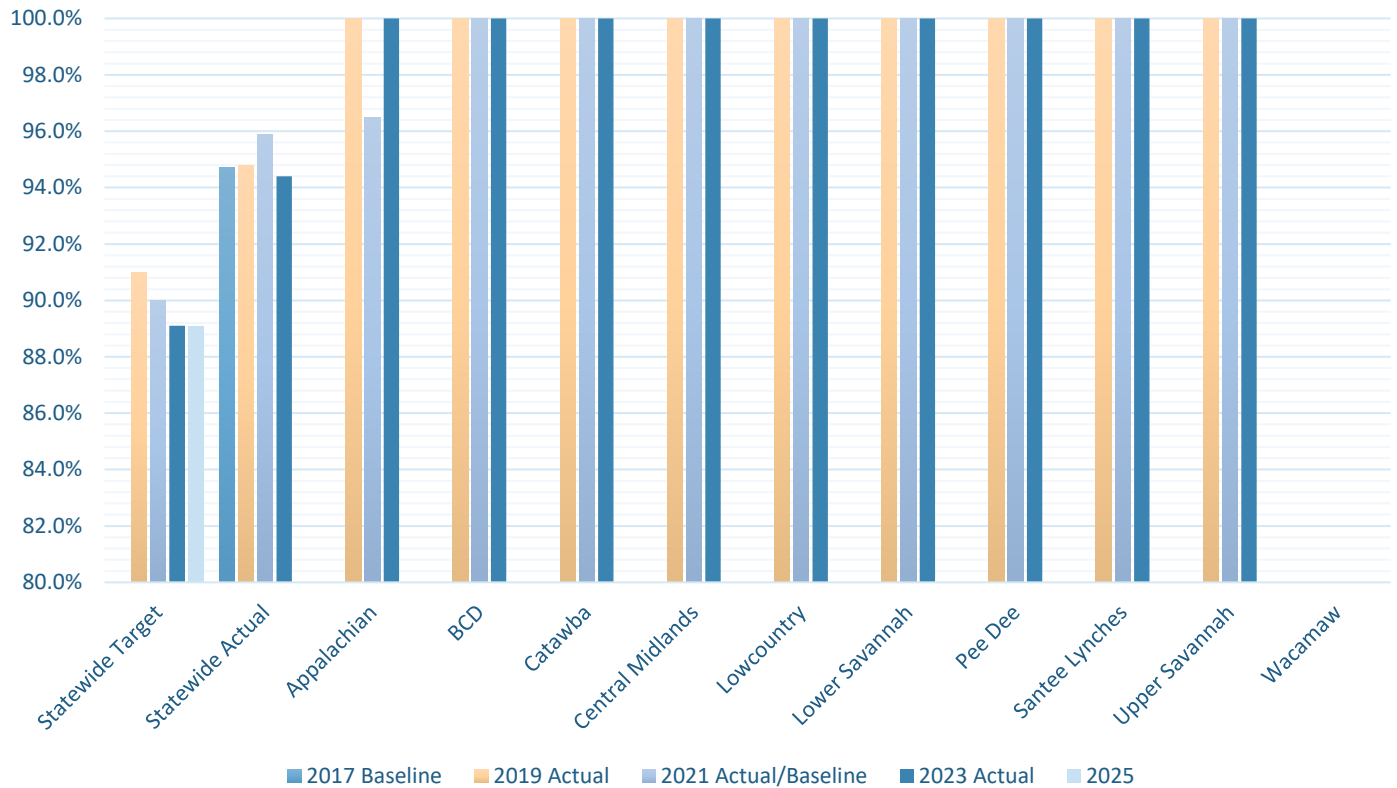
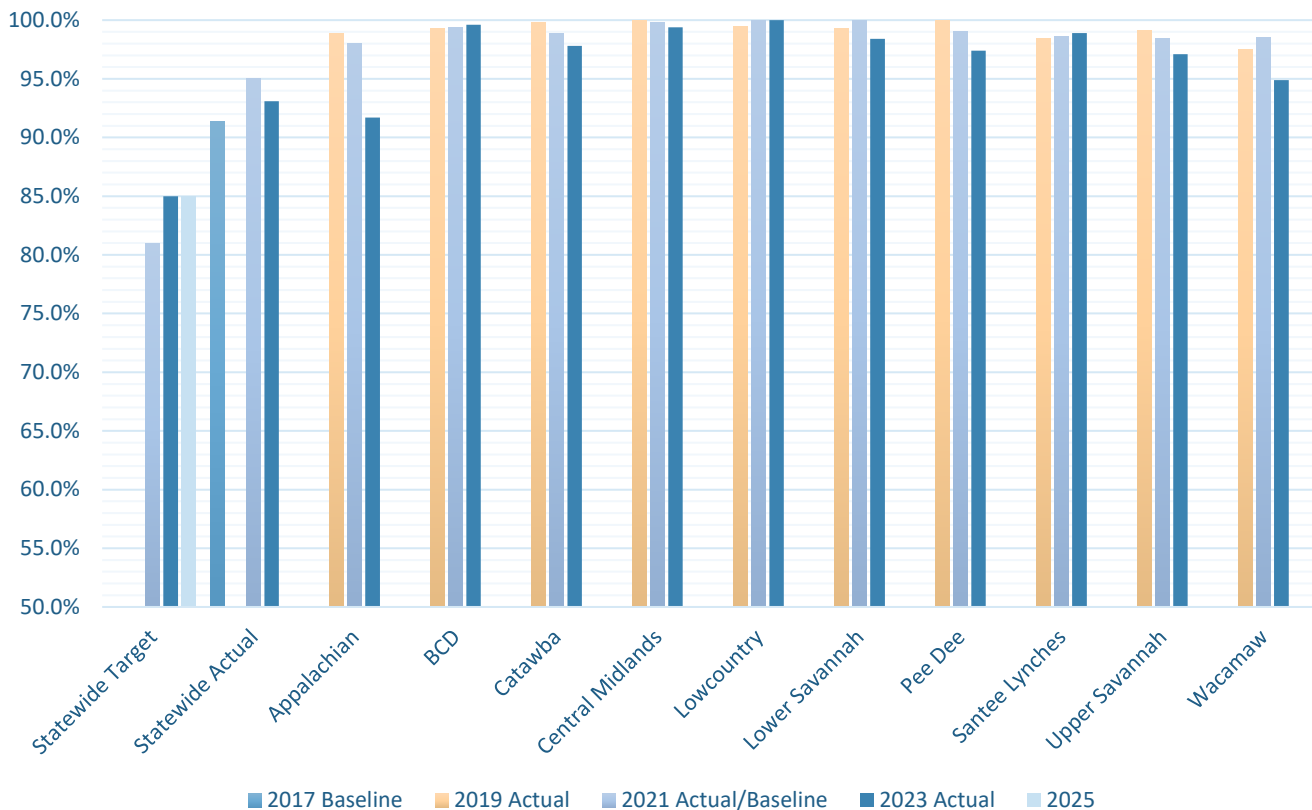


Figure 43. Percent of Person-Miles Traveled on the Non-Interstate NHS that are Reliable (COG)



PM3 FREIGHT MOBILITY (TTTR)

The freight movement performance measure assesses reliability for trucks traveling on the Interstate system. A Truck Travel Time Reliability (TTTR) index is generated based on the ratio of actual truck travel times to normal travel times. A lower TTTR value means better performance, i.e., more reliable truck travel.

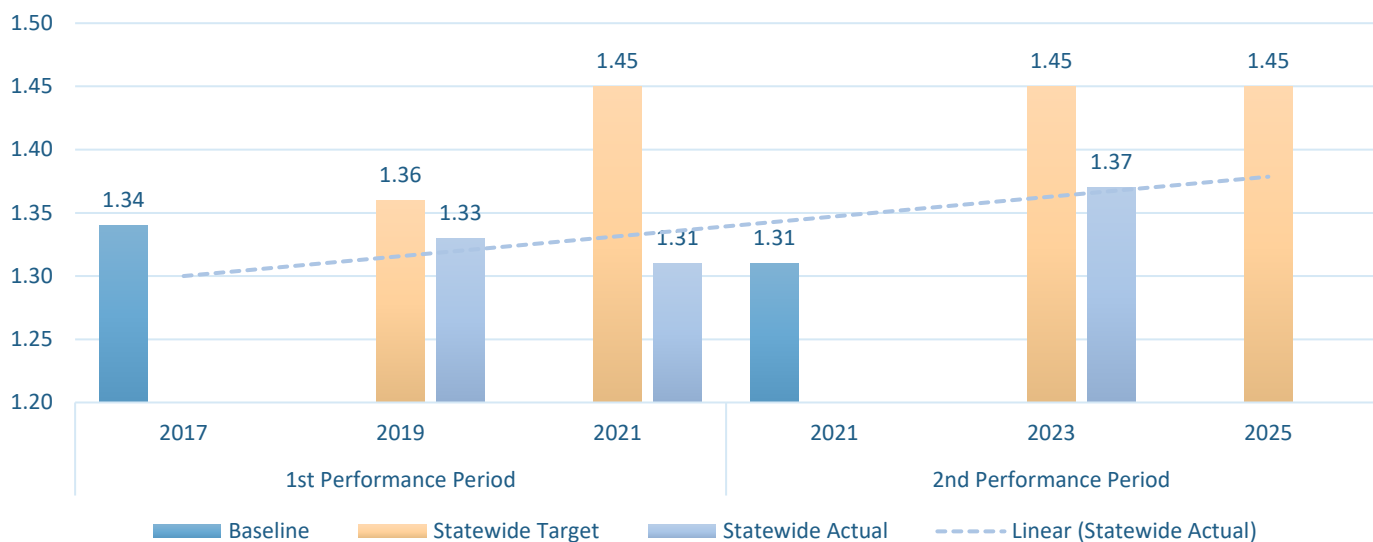
FHWA defines Level of Truck Travel Time Reliability (LOTTTR) as the percent of truck-miles on the Interstate System that are reliable. LOTTTR is calculated as the ratio of the longer travel times (95th percentile) to a “normal” travel time (50th percentile), using NPMRDS or equivalent data. Data is collected in 15-minute segments during five time periods:

- Morning Peak (6am-10am) Monday-Friday
- Midday (10am-4pm) Monday-Friday
- Afternoon Peak (4pm-8pm) Monday-Friday
- Weekends (6am-8pm)
- Overnight (8pm-6am)

The segments are then used to create the TTTR index for the entire system using a weighted aggregate calculation for the worst performing times of each segment.

Any roadway segment or corridor that has a reliability index of 1.5 or greater during any time period is considered to be unreliable. TTTR Index in Figure 44 shows overall freight reliability on the Interstate in South Carolina. In the MPO and COG Freight Mobility section that follows the graph shows the consistently unreliable regions of the Interstate System that are responsible for making 4.1% of the Interstate’s unreliable, the majority of which are located in three MPO’s: Charleston (CHATS), Greenville-Pickens (GPATS) and Columbia (COATS). Addressing unreliable sections and pinch points of System to System Interchanges is a top priority for the agency. As future freight volume increases, economic growth and increased work zone and interstate capacity projects are in construction, it is forecasted that TTTR index will increase above the baseline. Current and future interstate projects will benefit interstate TTTR in the long term, but SCDOT anticipates lower truck reliability will be difficult to achieve in the short term.

Figure 44. Interstate Truck Travel Time Reliability Index (TTTR)



MPO AND COG FREIGHT MOBILITY

MPO and COG regional freight mobility conditions are shown in Figure 45 and 46, with a comparison to the statewide actual conditions over time. For data used to create these figures see Appendix A.

Figure 45. Interstate Freight TTTR Index (MPO)

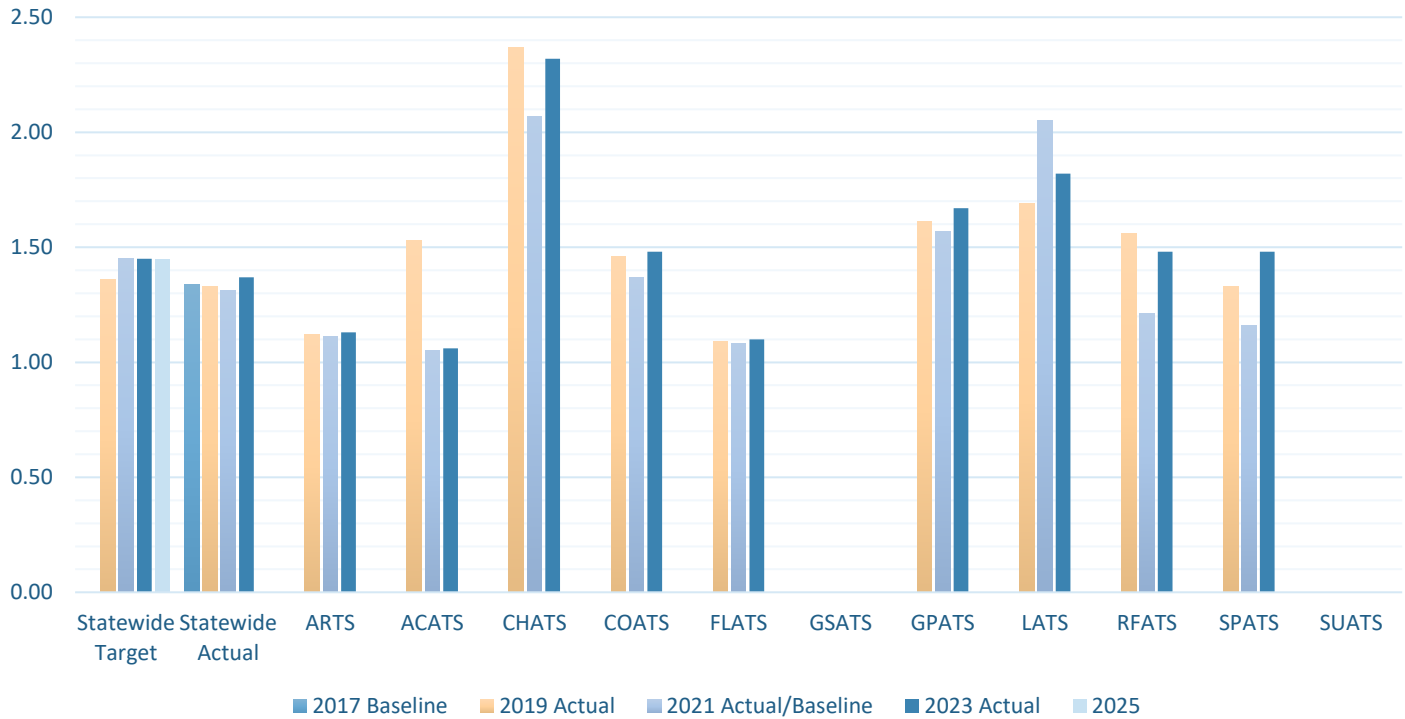
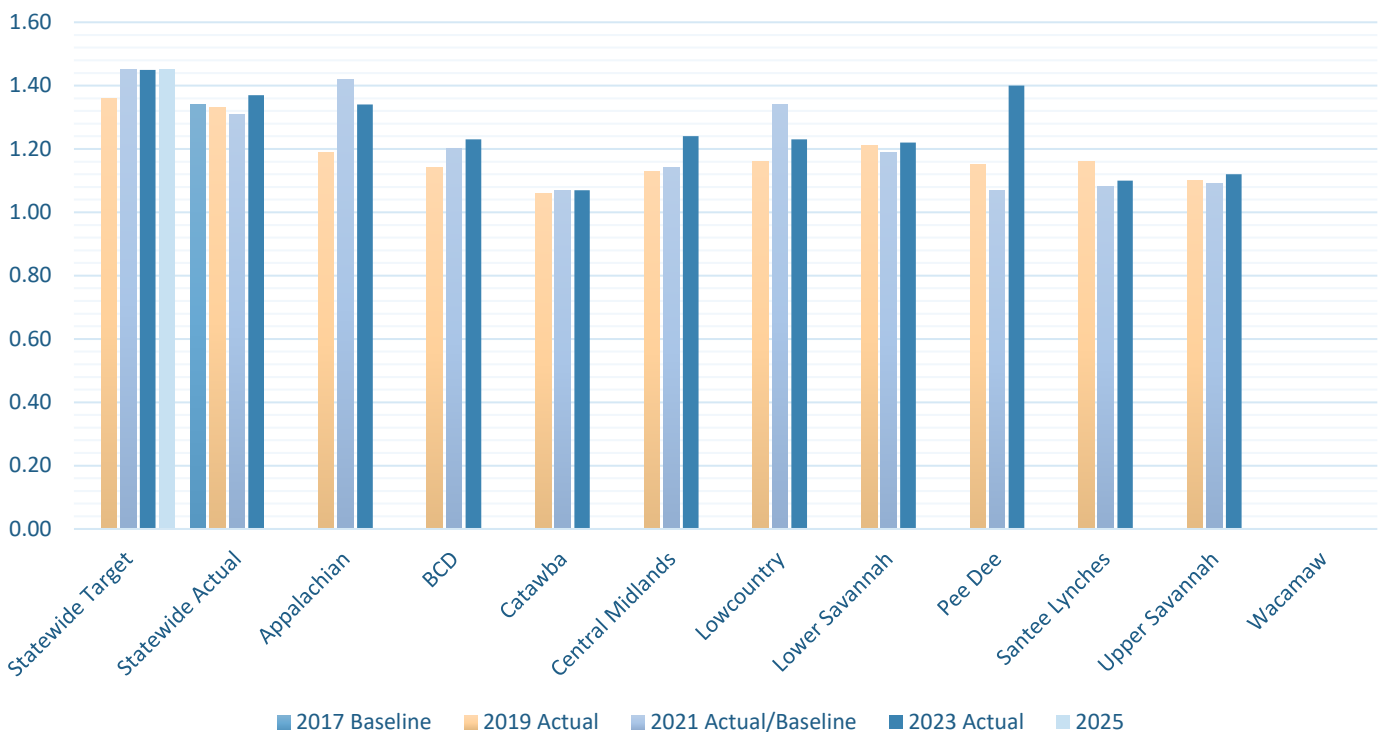


Figure 46. Interstate Freight TTTR Index (COG)

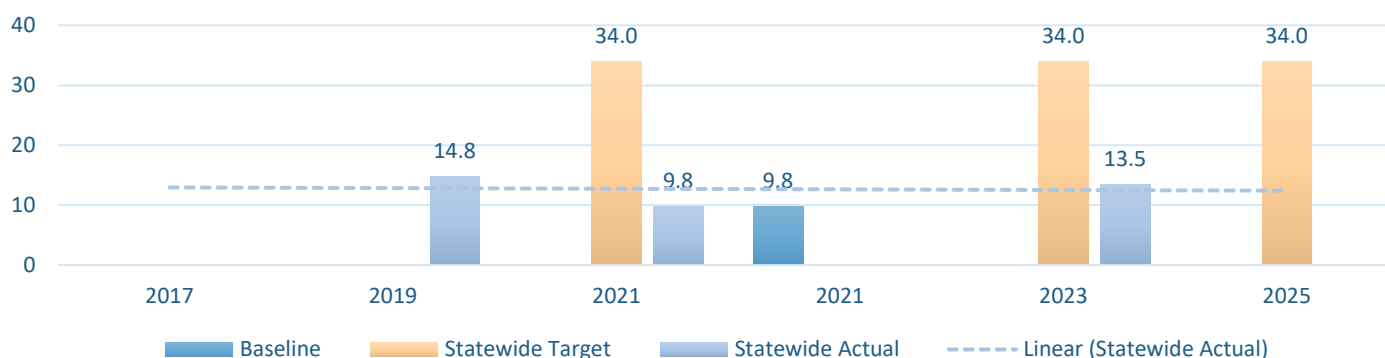


PM3 CONGESTION MITIGATION & AIR QUALITY IMPROVEMENT PROGRAM

Congestion Mitigation and Air Quality Improvement Program (CMAQ) measures apply to MPOs that are within the boundaries of each U.S. Census Bureau-designated Urbanized Area (UZA) that contains a NHS road, has a population of more than one million, and contains any part of nonattainment or maintenance area for emissions which applies to one MPO area of the state, Rock Hill and Fort Mill Area Transportation Study (RFATS). SCDOT works in conjunction with NCDOT, RFATS and other relative MPOs to develop the targets with NCDOT taking the lead on data gathering and analysis due to most of the UZA being located in North Carolina. FHWA established measures, to assess the extent of congestion and projects aimed at emission reduction.

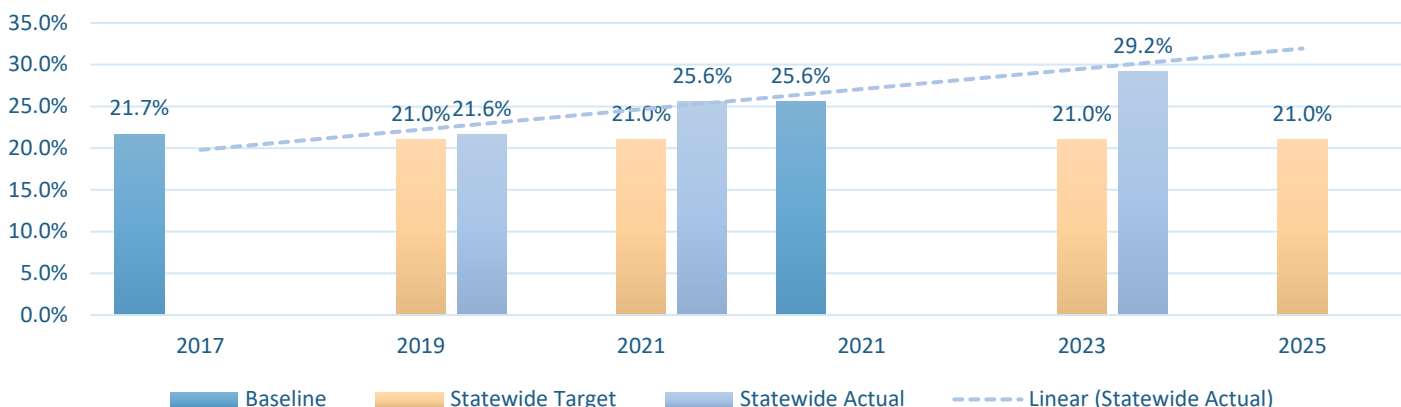
The extent of traffic congestion is measured by the number of transportation system users that are affected by congestion. This metric is measured by the annual hours of Peak Hour Excessive Delay (PHED) per capita on the NHS in the Charlotte, NC-SC Urbanized Area. The threshold for excessive delay is based on the travel times at 20 miles per hour or 60% of the posted speed limit travel time, whichever is greater. And measured in 15-minutes intervals. Peak travel hours are defined as 6:00 to 10:00 a.m. on weekday mornings; the weekday afternoon period is 3:00 to 7:00 p.m. or 4:00 to 8:00 p.m. The total excessive delay metric is weighted by vehicle volumes and occupancy. Thus, PHED is a measure of person-hours of delay experienced on NHS roads on an annual basis. The targets in Figure 47 reflect an anticipated return to pre-pandemic traffic delays, above the 2021 baseline. Uncertainty remains as the continuing impacts of widespread telework and more flexible work schedules have kept actual conditions better than pre-pandemic performance trends.

Figure 47. Annual Hours of Peak Hour Excessive Delay per Capita - Charlotte, NC-SC Urbanized Area (hours)



Measuring Non-Single Occupancy Vehicle (Non-SOV) travel, within an urbanized area, recognizes investments within the Charlotte, NC-SC region that increase multimodal solutions and vehicle occupancy levels as strategies to reduce congestion and criteria pollutant emissions. Modes of transportation recognized include carpooling, vanpooling, public transportation, commuter rail, walking, bicycling and tele-commuting. See Figure 48 below.

Figure 48. Percent of Non-Single Occupancy Vehicle Travel - Charlotte, NC-SC Urbanized Area



On-road emission reduction measures represents the cumulative target period reductions in kg/day for CMAQ funded projects within the boundary of the planning area. Total emission reduction for Nitrogen Oxides (NOx), Figure 49, and Volatile Organic Compounds (VOC), Figure 50, performance measures represent the estimated reductions benefit resulting from CMAQ projects authorized for funding in the performance period. These benefits are highly dependent on the project type and project delivery schedules. Projects planned to be completed in the first half of the performance period have shifted to the remainder of the performance period due to delays with utility coordination, right-of-way phase and other project delivery delays.

Figure 49. Total Emission Reduction (NOx) - Charlotte, NC-SC Urbanized Area (kg/day)

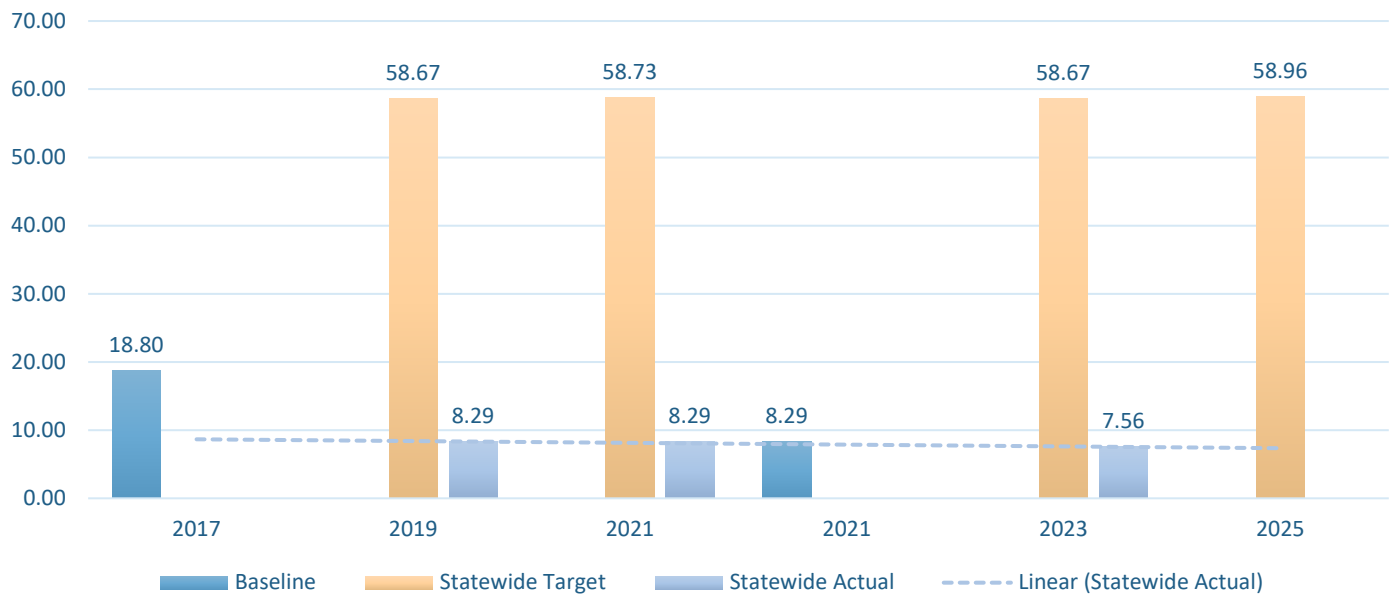
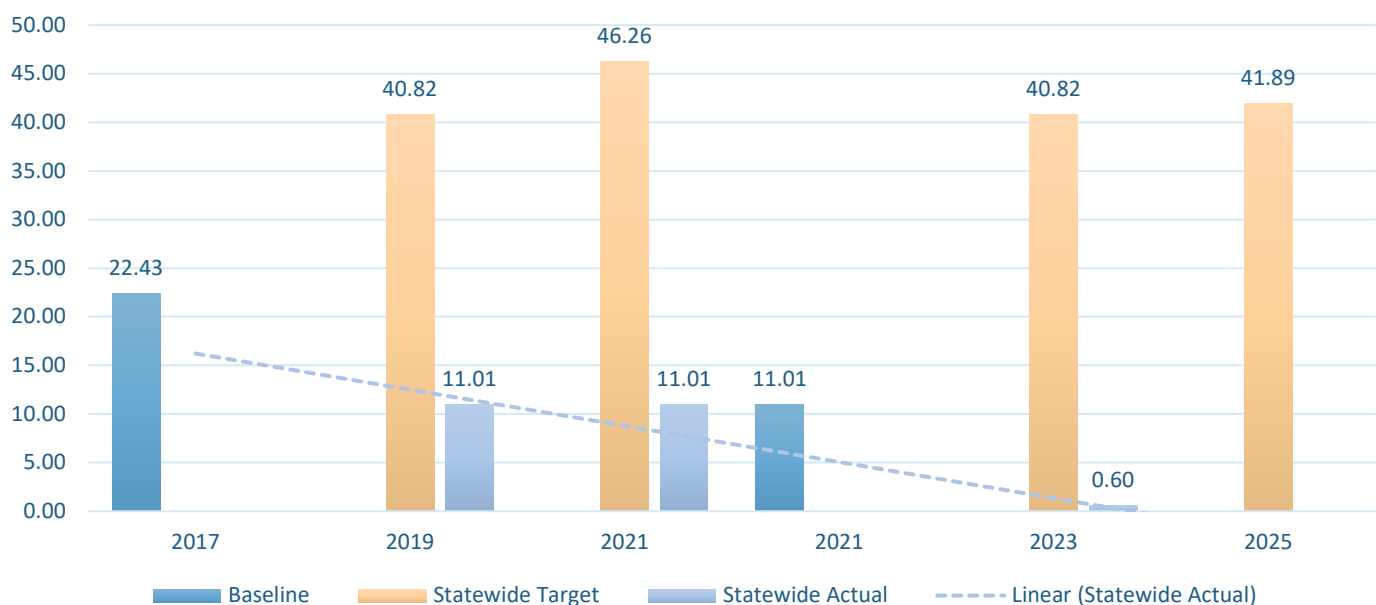


Figure 50. Total Emission Reduction (VOC) - Charlotte, NC-SC Urbanized Area (kg/day)



APPENDIX

(Note – Some cells are purposely left blank in the tables that follow)

Number of Fatalities Statewide	Year				
	CY (2014-2018) Baseline (2012-2016)	CY (2015-2019) Baseline (2013-2017)	CY (2016-2020) Baseline (2014-2018)	CY (2017-2021) Baseline (2015-2019)	CY (2018-2022) Baseline (2016-2020)
Baseline	890.4	915.6	969.4	1006.0	1023.4
Statewide Target	970.0	988.0	1011.0	1005.0	1061.0
Statewide Actual	969.6	1005.0	1023.0	1059.0	1080.0

Rate of Fatalities	Year				
	CY (2014-2018) Baseline (2012-2016)	CY (2015-2019) Baseline (2013-2017)	CY (2016-2020) Baseline (2014-2018)	CY (2017-2021) Baseline (2015-2019)	CY (2018-2022) Baseline (2016-2020)
Baseline	1.748	1.752	1.802	1.820	1.838
Statewide Target	1.810	1.790	1.819	1.760	1.820
Statewide Actual	1.804	1.818	1.836	1.880	1.894

Number of Serious Injuries Statewide	Year				
	CY (2014-2018) Baseline (2012-2016)	CY (2015-2019) Baseline (2013-2017)	CY (2016-2020) Baseline (2014-2018)	CY (2017-2021) Baseline (2015-2019)	CY (2018-2022) Baseline (2016-2020)
Baseline	3195.4	3108.2	2938.8	2974.2	2877.2
Statewide Target	3067.0	2986.0	2781.0	2950.0	2850.0
Statewide Actual	2988.4	2986.6	2888.2	2862.2	2804.6

Rate of Serious Injuries	Year				
	CY (2014-2018) Baseline (2012-2016)	CY (2015-2019) Baseline (2013-2017)	CY (2016-2020) Baseline (2014-2018)	CY (2017-2021) Baseline (2015-2019)	CY (2018-2022) Baseline (2016-2020)
Baseline	6.304	5.986	5.584	5.390	5.160
Statewide Target	5.708	5.420	4.979	5.350	4.892
Statewide Actual	5.590	5.412	5.180	5.076	4.916

Number of Non-Motorized Fatalities and Serious Injuries	Year				
	CY (2014-2018) Baseline (2012-2016)	CY (2015-2019) Baseline (2013-2017)	CY (2016-2020) Baseline (2014-2018)	CY (2017-2021) Baseline (2015-2019)	CY (2018-2022) Baseline (2016-2020)
Baseline	378.8	382.6	393.2	417.4	440.8
Statewide Target	371.3	380.0	380.0	440.0	500.0
Statewide Actual	389.8	414.2	438.8	458.8	463.6

MPO Study Area	Total F&SI	Percent Total F&SI Overall	Traffic Fatalities	Fatality Rate*	Serious Injuries	Serious Injury Rate*	Non-Motorized Fatalities and Serious Injuries
Statewide				1.775		4.567	
ARTS	88.800	3%	23.0	1.441	52.8	3.308	13.0
ACATS	79.000	3%	20.0	1.023	49.4	2.526	9.6
CHATS	544.400	20%	97.2	1.419	360.6	5.266	86.6
COATS	430.400	16%	106.8	1.492	265.8	3.713	57.8
FLATS	134.400	5%	31.4	1.801	83.6	4.796	19.4
GSATS	297.200	11%	56.6	1.510	196.4	5.239	44.2
GPATS	509.600	19%	112.0	1.828	339.2	5.536	58.4
RFATS	149.400	6%	28.2	1.132	106.2	4.261	15.0
SPATS	208.400	8%	54.0	1.551	134.0	3.849	20.4
SUATS	80.600	3%	18.8	2.413	53.4	6.854	8.4
LATS	139.400	5%	26.0	1.255	97.6	4.712	15.8

COG Study Area	Total F&SI	Percent Total F&SI Overall	Traffic Fatalities	Fatality Rate*	Serious Injuries	Serious Injury Rate*	Non-Motorized Fatalities and Serious Injuries
Statewide				1.775		4.567	
Appalachian	250.200	15%	65.0	2.284	166.6	5.855	18.6
BCD	119.800	7%	43.6	2.602	66.6	3.975	9.6
Catawba	167.000	10%	47.6	2.387	107.2	5.375	12.2
Central Midlands	91.800	5%	36.0	1.836	48.0	2.448	7.8
Lowcountry	135.600	8%	46.2	2.136	77.2	3.569	12.2
Lower Savannah	226.800	13%	65.8	2.007	146.8	4.478	14.2
Pee Dee	238.400	14%	71.6	2.573	144.0	5.175	22.8
Santee Lynches	129.400	8%	37.0	1.523	84.8	3.490	7.6
Upper Savannah	180.000	11%	52.4	2.181	113.4	4.719	14.2
Waccamaw	143.000	9%	42.4	3.059	88.6	6.393	12.0

Interstate Pavements in Good Condition (Fed Metric)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline				75.8%		
Statewide Target			71.0%		77.0%	78.0%
Statewide Actual		63.2%	75.8%		70.7%	

Interstate Pavements in Poor Condition (Fed Metric)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline				0.2%		
Statewide Target			3.0%		2.5%	2.5%
Statewide Actual		1.2%	0.2%		0.6%	

Non-Interstate NHS Pavements in Good Condition (Fed Metric)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline				38.8%		
Statewide Target		14.9%	21.1%		36.0%	38.0%
Statewide Actual		27.4%	38.8%		38.6%	

Non-Interstate NHS Pavements in Poor Condition (Fed Metric)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline				1.6%		
Statewide Target		4.3%	4.6%		10.0%	10.0%
Statewide Actual		3.9%	1.6%		1.9%	

MPO Region - Interstate Centerline Miles	Centerline Miles	Percentage
ACATS	13.74	2%
ARTS	60.07	7%
CHATS	96.99	12%
COATS	243.51	30%
FLATS	78.01	10%
GSATS	0.00	0%
GPATS	134.39	17%
LATS	29.93	4%
RFATS	42.68	5%
SPATS	107.71	13%
SUATS	0.00	0%

MPO Region Non-Interstate NHS Centerline Miles	Centerline Miles	Percentage
ACATS	66.20	4%
ARTS	91.70	6%
CHATS	208.00	13%
COATS	228.30	14%
FLATS	77.88	5%
GSATS	296.60	19%
GPATS	213.35	13%
LATS	134.19	8%
RFATS	100.81	6%
SPATS	111.03	7%
SUATS	69.61	4%

COG Region - Interstate Centerline Miles	Centerline Miles	Percentage
Appalachian	130.82	15%
BCD	78.01	9%
Catawba	37.64	4%
Central Midlands	120.53	13%
Lowcountry	107.69	12%
Lower Savannah	137.17	15%
Pee Dee	56.71	6%
Santee Lynches	155.49	17%
Upper Savannah	70.07	8%
Wacamaw	0.00	0%

COG Region Non-Interstate NHS Centerline Miles	Centerline Miles	Percentage
Appalachian	133.71	7%
BCD	162.08	8%
Catawba	227.66	11%
Central Midlands	41.75	2%
Lowcountry	106.95	5%
Lower Savannah	279.79	14%
Pee Dee	427.64	21%
Santee Lynches	127.46	6%
Upper Savannah	265.69	13%
Wacamaw	257.59	13%

MPO Interstate Pavements (PQI) Good	Years			
	2017	2019	2021	2023
Statewide	69.87%	69.72%	77.69%	76.79%
ACATS	29.34%	100.00%	95.85%	95.78%
ARTS	61.20%	83.52%	88.91%	78.29%
CHATS	98.94%	66.35%	64.09%	85.30%
COATS	73.88%	83.21%	80.60%	84.36%
FLATS	93.31%	93.87%	94.22%	90.13%
GSATS				
GPATS	69.91%	63.88%	64.94%	60.18%
LATS	71.57%	83.90%	84.20%	100.00%
RFATS	100.00%	100.00%	100.00%	97.51%
SPATS	62.85%	89.77%	94.83%	96.68%
SUATS				

MPO Interstate Pavements (PQI) Poor	Years			
	2017	2019	2021	2023
Statewide	13.90%	11.07%	7.65%	7.02%
ACATS	13.83%	0.00%	0.00%	0.00%
ARTS	35.47%	6.16%	0.00%	10.38%
CHATS	0.40%	3.48%	4.13%	5.67%
COATS	16.45%	8.56%	5.30%	3.43%
FLATS	0.67%	0.00%	5.00%	4.79%
GSATS				
GPATS	21.12%	16.35%	22.05%	24.95%
LATS	0.00%	12.29%	1.98%	0.00%
RFATS	0.00%	0.00%	0.00%	0.00%
SPATS	7.29%	6.23%	0.00%	0.98%
SUATS				

MPO Non-Interstate NHS Pavements (PQI) Good	Years			
	2017	2019	2021	2023
Statewide	31.67%	46.43%	52.20%	51.85%
ACATS	17.66%	25.40%	40.94%	36.40%
ARTS	18.62%	51.87%	38.38%	58.48%
CHATS	61.62%	63.08%	48.30%	40.39%
COATS	16.48%	22.48%	30.27%	34.80%
FLATS	50.13%	60.86%	66.72%	64.36%
GSATS	24.42%	30.91%	54.62%	69.67%
GPATS	21.22%	41.13%	59.39%	58.20%
LATS	42.38%	66.71%	64.72%	64.06%
RFATS	23.05%	28.82%	42.53%	43.61%
SPATS	16.66%	17.47%	27.63%	24.05%
SUATS	29.32%	50.37%	38.68%	32.25%

MPO Non-Interstate NHS Pavements (PQI) Poor	Years			
	2017	2019	2021	2023
Statewide	43.22%	34.84%	30.50%	29.62%
ACATS	55.35%	49.74%	42.28%	51.46%
ARTS	55.93%	29.65%	44.34%	28.04%
CHATS	17.89%	13.84%	18.58%	23.78%
COATS	39.14%	40.56%	36.94%	36.57%
FLATS	25.67%	14.09%	15.50%	13.83%
GSATS	45.22%	43.88%	26.07%	17.55%
GPATS	68.37%	53.98%	33.14%	25.27%
LATS	23.43%	8.61%	14.17%	11.35%
RFATS	30.14%	39.68%	29.93%	34.72%
SPATS	45.78%	60.36%	52.50%	64.31%
SUATS	51.44%	33.85%	48.90%	47.31%

COG Interstate Pavements (PQI) Good	Years			
	2017	2019	2021	2023
Statewide	69.87%	69.72%	77.69%	76.79%
Appalachian	67.95%	73.19%	73.69%	67.11%
BCD	72.99%	69.74%	79.37%	49.34%
Catawba	100.00%	91.21%	99.55%	60.20%
Central Midlands	50.11%	44.09%	70.98%	71.49%
Lowcountry	16.82%	15.84%	65.98%	65.66%
Lower Savannah	59.17%	32.04%	38.63%	57.33%
Pee Dee	66.81%	63.69%	66.87%	67.31%
Santee Lynches	80.30%	82.95%	98.46%	89.07%
Upper Savannah	96.24%	96.96%	99.68%	99.75%
Wacamaw				

COG Interstate Pavements (PQI) Poor	Years			
	2017	2019	2021	2023
Statewide	13.90%	11.07%	7.65%	7.02%
Appalachian	17.69%	9.03%	2.68%	4.24%
BCD	4.74%	1.92%	6.45%	17.83%
Catawba	0.00%	0.00%	0.00%	0.45%
Central Midlands	34.63%	39.88%	15.28%	14.96%
Lowcountry	19.25%	6.69%	0.00%	0.00%
Lower Savannah	19.86%	33.02%	24.11%	11.60%
Pee Dee	9.71%	17.63%	33.13%	12.99%
Santee Lynches	7.46%	1.43%	0.00%	0.00%
Upper Savannah	2.90%	2.75%	32.00%	0.00%
Wacamaw				

COG Non-Interstate NHS Pavements (PQI) Good	Years			
	2017	2019	2021	2023
Statewide	31.67%	46.43%	52.20%	51.85%
Appalachian	26.71%	42.67%	54.15%	52.01%
BCD	24.78%	39.24%	43.12%	51.55%
Catawba	25.80%	47.08%	62.22%	50.58%
Central Midlands	45.81%	53.67%	38.17%	39.45%
Lowcountry	53.02%	73.00%	61.47%	58.08%
Lower Savannah	20.79%	48.77%	50.82%	51.25%
Pee Dee	36.75%	52.47%	56.94%	56.50%
Santee Lynches	34.49%	64.56%	64.51%	42.58%
Upper Savannah	34.91%	40.35%	54.40%	48.90%
Wacamaw	44.27%	56.49%	60.59%	63.59%

COG Non-Interstate NHS Pavements (PQI) Poor	Years			
	2017	2019	2021	2023
Statewide	43.22%	34.84%	30.50%	29.62%
Appalachian	52.84%	47.67%	27.46%	27.17%
BCD	51.36%	37.60%	33.10%	34.06%
Catawba	46.49%	32.81%	27.25%	34.15%
Central Midlands	43.29%	45.80%	50.77%	42.14%
Lowcountry	26.87%	11.68%	25.45%	25.65%
Lower Savannah	61.94%	38.71%	38.38%	33.53%
Pee Dee	44.44%	30.91%	29.16%	28.74%
Santee Lynches	27.49%	20.02%	24.23%	39.21%
Upper Savannah	39.64%	40.35%	26.55%	24.86%
Wacamaw	37.78%	35.25%	30.57%	24.65%

NHS Bridges in Good Condition (Deck Area)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	41.1%			38.5%		
Statewide Target		42.2%	42.7%		35.0%	34.0%
Statewide Actual		40.0%	38.5%		33.6%	

NHS Bridges in Poor Condition (Deck Area)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	4.0%			4.3%		
Statewide Target		4.0%	6.0%		6.0%	6.0%
Statewide Actual		4.2%	4.3%		4.4%	

MPO NHS Bridges	Square Footage Deck Area	Number	Percentage
ACATS	522625	35	2%
ARTS	580078	44	2%
CHATS	11627783	147	42%
COATS	3936459	173	14%
FLATS	722926	61	3%
GSATS	3692822	108	13%
GPATS	2245373	151	8%
LATS	2119872	48	8%
RFATS	667130	35	2%
SPATS	1135581	93	4%
SUATS	199744	16	1%

COG NHS Bridges	Square Footage Deck Area	Number	Percentage
Appalachian	1184293	84	9%
BCD	2082239	98	11%
Catawba	966203	85	10%
Central Midlands	860469	58	6%
Lowcountry	679518	58	6%
Lower Savannah	957638	89	10%
Pee Dee	2249035	149	17%
Santee Lynches	1978970	110	12%
Upper Savannah	759670	85	10%
Wacamaw	1510327	74	8%

MPO NHS Bridges in Good Condition (Deck Area)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Statewide Baseline	41.1%			38.5%		
Statewide Target		42.2%	42.7%		35.0%	34.0%
Statewide Actual		40.0%	38.5%		33.6%	
ARTS		62.4%	61.8%		62.0%	
ACATS		16.2%	17.4%		12.7%	
CHATS		19.9%	22.6%		23.7%	
COATS		55.9%	52.7%		40.0%	
FLATS		28.6%	38.4%		7.2%	
GSATS		78.0%	65.1%		56.0%	
GPATS		57.1%	56.8%		56.1%	
LATS		2.4%	2.3%		2.6%	
RFATS		23.9%	24.5%		25.6%	
SPATS		63.9%	62.2%		58.3%	
SUATS		64.41%	64.01%		56.99%	

MPO NHS Bridges in Poor Condition (Deck Area)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Statewide Baseline	4.0%			4.3%		
Statewide Target		4.0%	6.0%		6.0%	6.0%
Statewide Actual		4.2%	4.3%		4.4%	
ARTS		2.6%	1.4%		1.5%	
ACATS		0.8%	0.8%		0.8%	
CHATS		0.7%	0.9%		1.5%	
COATS		6.3%	5.1%		5.6%	
FLATS		0.0%	0.0%		1.0%	
GSATS		2.4%	7.5%		7.6%	
GPATS		11.6%	11.6%		10.5%	
LATS		4.6%	4.1%		4.1%	
RFATS		0.6%	0.6%		0.8%	
SPATS		8.1%	3.7%		7.1%	
SUATS		10.7%	10.9%		10.9%	

COG NHS Bridges in Good Condition (Deck Area)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Statewide Baseline	41.1%			38.5%		
Statewide Target		42.2%	42.7%		35.0%	34.0%
Statewide Actual		40.0%	38.5%		33.6%	
Appalachian		54.7%	65.2%		68.6%	
BCD		11.6%	21.3%		27.2%	
Catawba		52.8%	50.6%		39.7%	
Central Midlands		51.0%	50.7%		52.8%	
Lowcountry		25.7%	30.8%		26.6%	
Lower Savannah		38.6%	37.8%		36.2%	
Pee Dee		57.8%	56.5%		35.5%	
Santee Lynches		36.2%	34.8%		15.8%	
Upper Savannah		54.8%	41.9%		44.0%	
Wacamaw		85.5%	45.7%		33.5%	

COG NHS Bridges in Poor Condition (Deck Area)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Statewide Baseline	4.0%			4.3%		
Statewide Target		4.0%	6.0%		6.0%	6.0%
Statewide Actual		4.2%	4.3%		4.4%	
Appalachian		5.5%	3.1%		6.8%	
BCD		3.7%	3.1%		3.4%	
Catawba		6.6%	4.7%		4.1%	
Central Midlands		4.0%	1.7%		3.4%	
Lowcountry		7.6%	0.0%		7.5%	
Lower Savannah		12.6%	6.4%		8.2%	
Pee Dee		9.3%	2.8%		3.7%	
Santee Lynches		13.2%	17.3%		10.7%	
Upper Savannah		1.0%	1.4%		0.6%	
Wacamaw		8.1%	8.4%		1.4%	

Percent of Person-Miles Traveled on the Interstate that are Reliable	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	94.7%			95.9%		
Statewide Target		91.0%	90.0%		89.1%	89.1%
Statewide Actual		94.8%	95.9%		94.4%	

Percent of Person-Miles Traveled on the Non-Interstate NHS that are Reliable	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	91.4%			95.0%		
Statewide Target			81.0%		85.0%	85.0%
Statewide Actual			95.0%		93.1%	

Truck Travel Time Reliability Index	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	1.34			1.31		
Statewide Target		1.36	1.45		1.45	1.45
Statewide Actual		1.33	1.31		1.37	

MPO Percent of Person-Miles Traveled on the Interstate that are Reliable	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	94.7%			95.9%		
Statewide Target		91.0%	90.0%		89.1%	89.1%
Statewide Actual		94.8%	95.9%		94.4%	
ARTS		100.0%	100.0%		100.0%	
ACATS		100.0%	100.0%		100.0%	
CHATS		74.1%	71.0%		67.7%	
COATS		94.6%	94.3%		96.1%	
FLATS		100.0%	100.0%		100.0%	
GSATS						
GPATS		89.4%	85.2%		86.9%	
LATS		100.0%	100.0%		100.0%	
RFATS		80.7%	100.0%		88.2%	
SPATS		100.0%	100.0%		96.7%	
SUATS						

MPO Percent of Person-Miles Traveled on the Non-Interstate NHS that are Reliable	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	91.4%			95.0%		
Statewide Target			81.0%		85.0%	85.0%
Statewide Actual			95.0%		93.1%	
ARTS		97.1%	95.6%		97.7%	
ACATS		94.8%	95.5%		93.2%	
CHATS		71.5%	78.8%		78.6%	
COATS		80.4%	87.2%		88.8%	
FLATS		92.7%	98.2%		92.6%	
GSATS		95.4%	96.6%		98.5%	
GPATS		92.2%	93.9%		93.5%	
LATS		94.8%	93.5%		90.4%	
RFATS		89.5%	92.9%		93.2%	
SPATS		93.7%	96.8%		94.8%	
SUATS		97.3%	98.2%		95.9%	

COG Percent of Person-Miles Traveled on the Interstate that are Reliable	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	94.7%			95.9%		
Statewide Target		91.0%	90.0%		89.1%	89.1%
Statewide Actual		94.8%	95.9%		94.4%	
Appalachian		100.0%	96.5%		100.0%	
BCD		100.0%	100.0%		100.0%	
Catawba		100.0%	100.0%		100.0%	
Central Midlands		100.0%	100.0%		100.0%	
Lowcountry		100.0%	100.0%		100.0%	
Lower Savannah		100.0%	100.0%		100.0%	
Pee Dee		100.0%	100.0%		100.0%	
Santee Lynches		100.0%	100.0%		100.0%	
Upper Savannah		100.0%	100.0%		100.0%	
Wacamaw						

COG Percent of Person-Miles Traveled on the Non-Interstate NHS that are Reliable	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	91.4%			95.0%		
Statewide Target			81.0%		85.0%	85.0%
Statewide Actual			95.0%		93.1%	
Appalachian		98.9%	98.0%		91.7%	
BCD		99.3%	99.4%		99.6%	
Catawba		99.8%	98.9%		97.8%	
Central Midlands		100.0%	99.8%		99.4%	
Lowcountry		99.5%	100.0%		100.0%	
Lower Savannah		99.3%	100.0%		98.4%	
Pee Dee		100.0%	99.0%		97.4%	
Santee Lynches		98.4%	98.6%		98.9%	
Upper Savannah		99.1%	98.4%		97.1%	
Wacamaw		97.5%	98.5%		94.9%	

MPO Truck Travel Time Reliability Index (Interstates)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	1.34			1.31		
Statewide Target		1.36	1.45		1.45	1.45
Statewide Actual		1.33	1.31		1.37	
ARTS		1.12	1.11		1.13	
ACATS		1.53	1.05		1.06	
CHATS		2.37	2.07		2.32	
COATS		1.46	1.37		1.48	
FLATS		1.09	1.08		1.10	
GSATS						
GPATS		1.61	1.57		1.67	
LATS		1.69	2.05		1.82	
RFATS		1.56	1.21		1.48	
SPATS		1.33	1.16		1.48	
SUATS						

COG Truck Travel Time Reliability Index (Interstates)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	1.34			1.31		
Statewide Target		1.36	1.45		1.45	1.45
Statewide Actual		1.33	1.31		1.37	
Appalachian		1.19	1.42		1.34	
BCD		1.14	1.2		1.23	
Catawba		1.06	1.07		1.07	
Central Midlands		1.13	1.14		1.24	
Lowcountry		1.16	1.34		1.23	
Lower Savannah		1.21	1.19		1.22	
Pee Dee		1.15	1.07		1.4	
Santee Lynches		1.16	1.08		1.1	
Upper Savannah		1.1	1.09		1.12	
Wacamaw						

PHED (hours)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline				9.8		
Statewide Target			34.0		34.0	34.0
Statewide Actual		14.8	9.8		13.5	

Non-SOV (%)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	21.7%			25.6%		
Statewide Target		21.0%	21.0%		21.0%	21.0%
Statewide Actual		21.6%	25.6%		29.2%	

Emissions Nox (kg/day)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	18.80			8.29		
Statewide Target		58.67	58.73		58.67	58.96
Statewide Actual		8.29	8.29		7.56	

Emissions VOC (kg/day)	1st Performance Period			2nd Performance Period		
	2017	2019	2021	2021	2023	2025
Baseline	22.43			11.01		
Statewide Target		40.82	46.26		40.82	41.89
Statewide Actual		11.01	11.01		0.60	

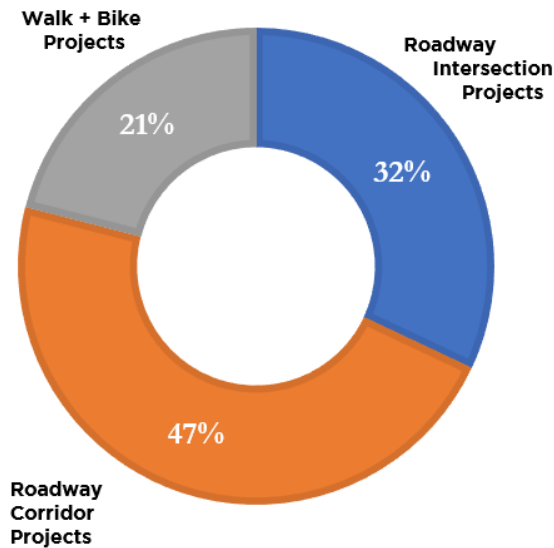
APPENDIX 3 - LRTP REPORT CARD (2024)

Each year, SUATS staff updates an Annual LRTP Report Card to measure and document the progress made toward the LRTP's objectives as stated in Chapter 12. The Annual LRTP Report Card helps provide transparency and continuity between five-year LRTP updates by identifying opportunities and barriers to achieving both the LRTP policy goals and fiscally constrained projects.

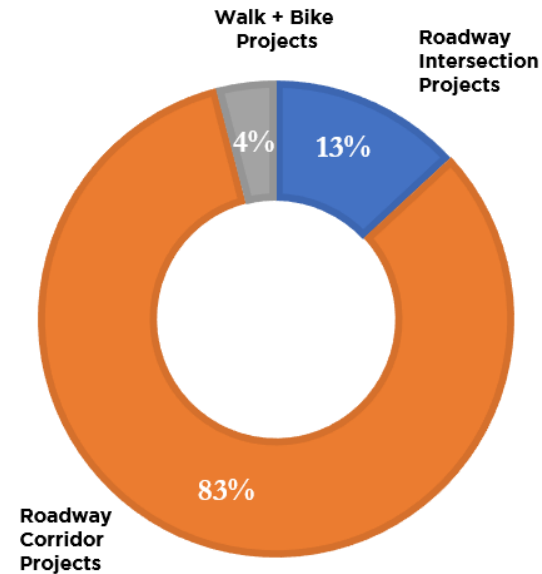
The Annual LRTP Report Card tracks the performance measures in the LRTP for the active years of the plan, 2024 to 2028, with 2024 as the base year.

The Report Card is reviewed by the SUATS Technical Committees and adopted by the Policy Committee each year and is available online for local agencies and members of the public.

LRTP-Designated Target Allocation %

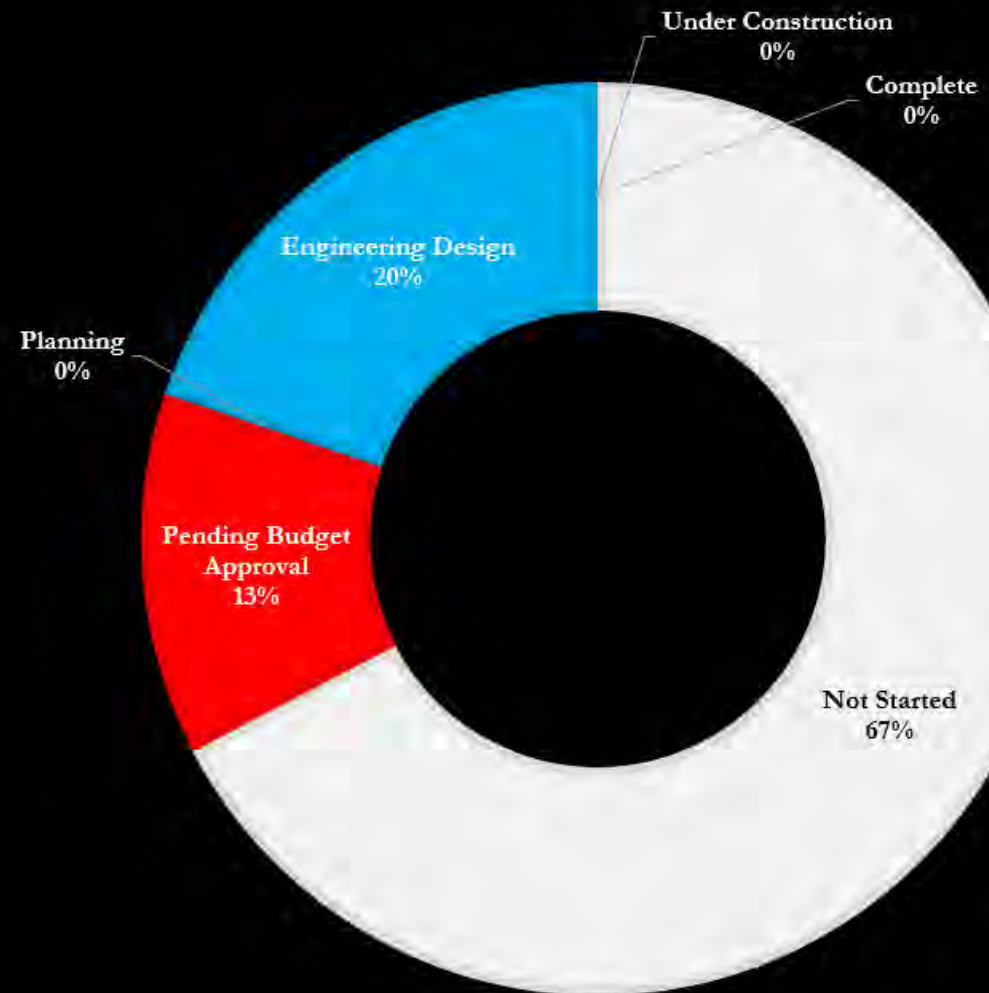


**Current Allocation %
(including projects under construction)**



L RTP Fisc ally Constrained Projects Status

	Not Started	48
	Pending Budget Approval	9
	Planning	0
	Engineering / Design	14
	Under Construction	0
	Complete	0
	Total Projects	71



Sumter 2050 Long Range Transportation Plan: Action Items Report Card

Year 1: 2024



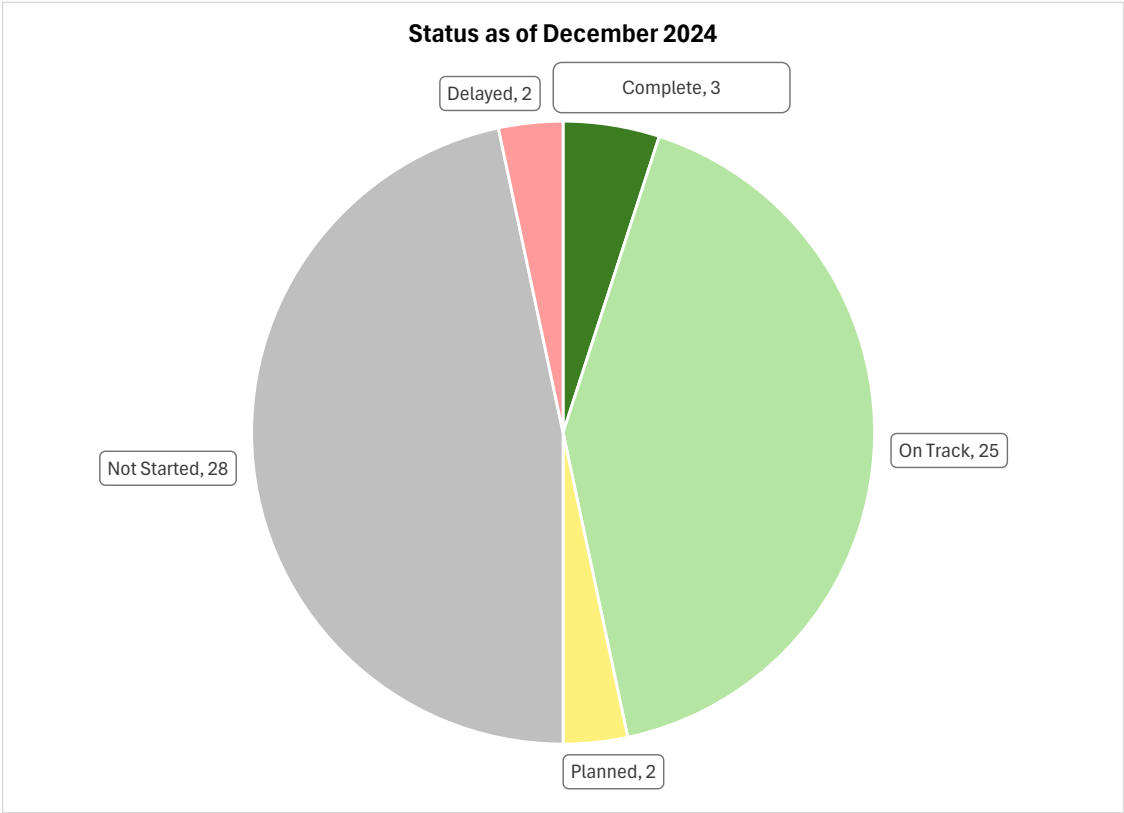
The SUATS 2050 LRTP represents an important step toward implementing multimodal improvements that affect travel safety, mobility, development patterns, and the aesthetics of the Sumter region. The action items list appropriate steps for local leaders to implement the recommendations of this plan and key agencies that should be involved with the task. While all listed items are not expected to be completed within the 5 year lifecycle of the current LRTP, the process should be initiated. The success of this plan hinges on the City and County continuing to work with and educate local citizens and businesses. This annual report card offers a tool for the members of the Sumter Community to understand status of various actions and advocate for further progress.

Highlights

Penny for Progress Referendum Success - In November 2024, the voters of Sumter County overwhelmingly approved a renewal of the "Penny for Progress" one-cent sales tax for capital projects. Included in the list of approved projects are 10 separate transportation improvement categories, representing 44% of the total initiative's funding. This success will provide resources over the next 8 years to bring to reality projects identified in the Long-Range Transportation Plan.

TAP Grant Awarded for Folsom Park/Uptown Sidewalk Project - In December 2024, the City of Sumter was awarded an \$800,000 Transporattion Alternatives Program (TAP) grant to complete engineering design and initial development work for 3.68 miles of new sidewalk on 6 streets in the Uptown/Folsom Park area of the City. These sidewalks will fill critical gaps along highly traveled streets where there are no pedestrian facilities currently available.

City Street Development Standards Updated - In April 2024, Sumter City Council adopted a comprehensive update to its *Zoning & Development Standards Ordinance* that updated Article 8.d., which regulates new street development. The improvements made included increasing minimum width of new sidewalks from 4.5 to 5 ft., a policy statement discouraging use of cul-de-sacs in residential devleopment, clarity regarding street dimension standards, and enhanced standards for new street construction.



Status as of Dec 2024	Count of Status
Complete	3
On Track	25
Planned	2
Not Started	28
Delayed	2
Total	60

- Complete** – action item is considered done with no further action required.
- On track** – action is underway with a defined point of completion
- Planned** – while no action has been taken, the item is scheduled for action to occur at a future point
- Not started** – no action has been taken and no action has been planned
- Delayed** – issues have arisen during implementation that delay progress in full or in part.

Sumter 2050 Long Range Transportation Plan - Action Items Report Card

Calendar Year 2024

Item No.	Action Plan Items	L RTP Category	Type of Action	Group	Status April 2025	Notes/additional details
1	Request inclusion of high-priority projects in the next update of the state's Transportation Improvement Program (TIP).	General	Carry out a specific planning function	Coordination with SCDOT	Complete	
2	Create a standing citizen committee that will encourage and educate the public as well as seek to aid in the implementation of this plan.	General	Carry out a specific planning function	Partnerships & coordination with community stakeholders	On Track	Sumter Transportation Resident Advisory Committee (STRAC) introduced for Policy Committee Consideration
3	Develop and implement traffic calming standards for existing neighborhoods based on observed and/or anticipated impacts from new development.	General	Conduct a new study/planning effort	Regional (SUATS) policy, regulatory change, or study	On Track	
4	Adopt access management policies for arterials and major collectors following best practices for safety and mobility	General	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study	On Track	
5	As physical infrastructure improvements are made, avoid and/or minimize impacts to environmentally sensitive areas to preserve the natural environment.	General	General aspiration	Miscellaneous	On Track	
6	When applicable, request SCDOT include pedestrian and bicycle facilities in all SCDOT-initiated projects within the SUATS MPO jurisdiction.	General	Change a process or regulation	Coordination with SCDOT	On Track	
7	Conduct comprehensive re-evaluation and rightsizing of designated roadway functional classifications within the MPO Study Area.	General	Conduct a new study/planning effort	Regional (SUATS) policy, regulatory change, or study	Complete	2020 Census Functional Classification Review Completed
8	Secure funding to create aesthetic gateways (at key locations along major routes) that invite and welcome citizens and visitors to the SUATS region.	General	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements	On Track	Gateway Landscape Architecture Design work underway, funded via Thriving Communities Program (TCP)
9	Develop a City of Sumter access management policy for arterials and major collector streets following best practices for safety and mobility	General	Carry out a specific planning function	Regional (SUATS) policy, regulatory change, or study	On Track	City Unified Development Ordinance (UDO) in development and expected in late 2025/early 2026
10	Develop a Sumter County access management policies for arterials and major collector streets following best practices for safety and mobility	General	Carry out a specific planning function	Regional (SUATS) policy, regulatory change, or study	Not Started	
11	Promote re-introduction of the Penny for Progress sales tax via voter referendum at the next opportunity in 2024.	General	General aspiration	Secure/advocate for new funding	Complete	2024 Penny for Progress Referendum passed with over 60% voter approval.
12	Adopt an MPO "Complete Streets" policy that establishes the need to accommodate bicycle, pedestrian, and transit safety and mobility as well vehicular needs to encourage a well-balanced transportation system.	Policy	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study	Not Started	
13	Amend County Ordinances to require that subdivisions larger than 30 units include at least 2 separate points of access from a public street and at least one stub-out street to extend and connect with future streets (where geographically applicable).	Policy	Change a process or regulation	Sumter County policy or regulatory change	Not Started	City Unified Development Ordinance (UDO) in development and expected in late 2025/early 2026
14	Amend City Ordinances to require that subdivisions larger than 30 units include at least 2 separate points of access from a public street and at least one stub-out street to extend and connect with future streets (where geographically applicable).	Policy	Change a process or regulation	City of Sumter policy or regulatory change	On Track	City Unified Development Ordinance (UDO) in development and expected in late 2025/early 2026
15	Create a Broad Street Corridor Overlay District within the City of Sumter's Zoning Ordinance. Items addressed in the Overlay District would include street signage control, streetscape elements, landscaping, access and cross access, parking, and building orientation and frontage.	Policy	Conduct a new study/planning effort	City of Sumter policy or regulatory change	On Track	City Unified Development Ordinance (UDO) in development and expected in late 2025/early 2026

Item No.	Action Plan Items	L RTP Category	Type of Action	Group	Status April 2025	Notes/additional details
16	Create a Liberty Street Corridor Overlay District within the City of Sumter's Zoning Ordinance that will implement the intent of this plan. Items that should be addressed in the Overlay District include street signage control, streetscape elements, landscaping, access and cross access, parking, and building orientation and frontage.	Policy	Conduct a new study/planning effort	City of Sumter policy or regulatory change	On Track	City Unified Development Ordinance (UDO) in development and expected in late 2025/early 2026
17	Revise City street width and right-of-way requirements included in existing ordinances to match current best practices for complete street roadway design	Policy	Change a process or regulation	City of Sumter policy or regulatory change	On Track	City Unified Development Ordinance (UDO) in development and expected in late 2025/early 2026
18	Revise County street width and right-of-way requirements included in existing ordinances to match current best practices for complete street roadway design	Policy	Change a process or regulation	Sumter County policy or regulatory change	Not Started	
19	Program funds for implementation of 2 improvements to priority locations based on 5-year crash statistics with "spot safety funds" from SCDOT district office	Street improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements	Not Started	
20	Work with SCDOT to complete the projects in the current TIP, prioritizing projects that are behind schedule.	Street improvement	Carry out a specific planning function	Coordination with SCDOT	Delayed	Some projects on schedule, others delayed
21	Commit full allocation of Regional Mobility Program funds to facilitate completion of high-roprity improvements.	Street improvement	Carry out a specific planning function	Secure/advocate for new funding	On Track	
22	Complete 100% of the transportation projects funded via the 2016 Penny for Progress program.	Street improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements	Delayed	
23	Work with SCDOT and available local funding sources to obtain planning, engineering, and construction funds for the Interim Year (2030) fiscally constrained projects identified in the LRTP Financial Plan Chapter.	Street improvement	Implement specific recommendation from a specific adopted plan	Coordination with SCDOT	On Track	
24	Pursue Transportation Alternatives Program (TAP) funding to implement the walk+bike projects included in the 2050 LRTP financial plan.	Street improvement	Carry out a specific planning function	Coordination with SCDOT	On Track	TAP Grant awarded to Sumter by SCDOT for sidewalk project (Folsom Park/Uptown)
25	Work with SCDOT officials and available local funding sources to pursue and schedule funding for projects identified in the Vision Year (2040) identified in the Financial Plan Chapter.	Street improvement	Implement specific recommendation from a specific adopted plan	Coordination with SCDOT	Planned	
26	Pursue federal funding to fill gaps in the sidewalk network by constructing connections between existing sidewalks and high traffic pedestrian areas.	Bike & pedestrian improvement	Carry out a specific planning function	Secure/advocate for new funding	On Track	TAP Grant awarded to Sumter by SCDOT for sidewalk project (Folsom Park/Uptown)
27	Adopt a policy that all new collector and arterial streets provide full facilities for bicycles and pedestrians.	Bike & pedestrian improvement	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study	On Track	
28	Pursue funding to complete high-priority bicycle projects consistent with recommendations in the Walk + Bike Chapter.	Bike & pedestrian improvement	Carry out a specific planning function	Secure/advocate for new funding	On Track	
29	Establish an educational program for bicyclists to understand rules of the road and how to use the local bike network	Bike & pedestrian improvement	Start a new program	Partnerships & coordination with community stakeholders	Not Started	
30	Conduct self-assessment of Sumter's bicycle friendliness using the the League of American Bicyclists Bicycle Friendly Community Application Criteria	Bike & pedestrian improvement	Start a new program	Miscellaneous	Not Started	
31	Establish a partnership with local law enforcement officials to ensure laws and regulations pertaining to motorist, cyclist, and pedestrian safety are properly and consistently enforced across the region	Bike & pedestrian improvement	Start a new program	Partnerships & coordination with community stakeholders	Not Started	

Item No.	Action Plan Items	L RTP Category	Type of Action	Group	Status April 2025	Notes/additional details
32	Program funds for installation of 5 new bicycle parking facilities at key destinations throughout the region over the next year.	Bike & pedestrian improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements	Not Started	
33	Establish partnership program with local schools to better promote walking and biking in the community, including establishment of a Safe Routes to School program, National Walk to School day, and other school-based safety education, outreach, and engagement programs	Bike & pedestrian improvement	Start a new program	Partnerships & coordination with community stakeholders	Not Started	
34	Develop public services announcements to encourage a healthy community through enhanced cycling and walking.	Bike & pedestrian improvement	Miscellaneous	Partnerships & coordination with community stakeholders	Not Started	
35	Establish a Sidewalk Improvement Policy to identify and provide dedicated funding for projects to repair damaged sidewalks, fill sidewalk gaps, and upgrade sidewalks and intersections to meet current ADA standards.	Bike & pedestrian improvement	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study	Not Started	
36	Commission a comprehensive sidewalk condition inventory update at least every 5 years to help establish priorities for funding sidewalk improvements.	Bike & pedestrian improvement	Conduct a new study/planning effort	Regional (SUATS) policy, regulatory change, or study	Planned	Citywide inventory last completed in 2022, Due for update in 2027
37	Establish a Marked Crosswalk Policy to provide for the consistent application of treatment systems at signalized and non-signalized intersections and at mid-block crosswalks to ensure that marked crosswalks are of a consistent quality on all local, collector, and arterial roadways	Bike & pedestrian improvement	Adopt a new policy	Regional (SUATS) policy, regulatory change, or study	Not Started	
38	Create a Sidewalk and Bike Facility Fee-In-Lieu Policy to provide the option for residential and commercial developers to either construct sidewalk and/or bicycle facilities along the right-of-way as part of their development or to pay a fee for future construction of sidewalk segments.	Bike & pedestrian improvement	Start a new program	Regional (SUATS) policy, regulatory change, or study	Not Started	
39	Establish a SUATS bikeshare program, comprised of rentable docked or dock-less bikes and/or scooters strategically positioned around the region and managed either by a 3rd party contractor or a not-for-profit partner.	Bike & pedestrian improvement	Start a new program	Construct, install, or deliver specific physical improvements	Not Started	
40	Revise City Ordinance to increase minimum sidewalk size to at least 5 ft. width with a 5-foot vegetative buffer from the street in residential areas, and at least 10 ft. width in retail centers and the central business district.	Bike & pedestrian improvement	Change a process or regulation	Regional (SUATS) policy, regulatory change, or study	On Track	City Ordinance amended to increase minimum sidewalk width to 5 ft.
41	Revise County Ordinance to increase minimum sidewalk size to at least 5 ft. width with a 5-foot vegetative buffer from the street in residential areas.	Bike & pedestrian improvement	Change a process or regulation	Regional (SUATS) policy, regulatory change, or study	Not Started	
42	Advocate to SWRTA for the improvements to existing fixed route service outlined in the 2019 Santee-Lynches Regional Transit Needs Assessment + Framework Plan that are noted in the Transit Chapter of this document.	Transit improvement	Implement specific recommendation from a specific adopted plan	Coordination with SWRTA	On Track	
43	Secure funding for a transfer hub as a secondary transfer point within the SWRTA network	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA	Not Started	
44	Secure funding and provide technical support for study to create a unique name and brand for Sumter's Fixed-Route Transit Network.	Transit improvement	Carry out a specific planning function	Coordination with SWRTA	On Track	RFP for SWRTA Sumter service rebranding pending approval at SCDOT
45	Advocate to SWRTA for establishment of new fixed route service as outlined in the 2019 Santee-Lynches Regional Transit Needs Assessment+ Framework Plan that are noted in the Transit Chapter of this document.	Transit improvement	Implement specific recommendation from a specific adopted plan	Coordination with SWRTA	On Track	
46	Conduct an analysis to prioritize SWRTA stops for new signage and shelters and commit funding to stop enhancements	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA	On Track	2 new shelters included in scope of Manning Ave and N Main Corridor Improvements. Stop signage template in development via Thriving Communities Program
47	Work with SWRTA to establish a coordinated transit marketing and advertising strategy.	Transit improvement	Start a new program	Coordination with SWRTA	On Track	

Item No.	Action Plan Items	L RTP Category	Type of Action	Group	Status April 2025	Notes/additional details
48	Secure funding to increase the duration and frequency of existing and planned fixed transit routes.	Transit improvement	Advocate for another agency to carry out a specific action	Coordination with SWRTA	On Track	
49	Promote coordination and collaborative partnerships with other public transit and human service agencies.	Transit improvement	General aspiration	Coordination with SWRTA	Not Started	
50	Secure funding and promote coordination for implementing new uses of commercial space in James E. Clyburn Transportation Center to increase rent revenue and support transit services	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA	On Track	
51	Coordinate planned sidewalk projects with bus stop improvements where applicable, to maximize the impact of investments and prioritize ADA sidewalk repairs at locations along bus routes.	Transit improvement	Build/install physical infrastructure	Coordination with SWRTA	Not Started	
52	Work with SCDOT to adjust signal timing along high priority freight routes to reduce emissions and delay for through movements based on posted speed limits.	Freight improvement	Carry out a specific planning function	Construct, install, or deliver specific physical improvements	Not Started	
53	Work with SCDOT to make improvements at critical intersections on truck routes to more easily facilitate large vehicle movements and encourage their use by trucks.	Freight improvement	Carry out a specific planning function	Coordination with SCDOT	Not Started	
54	Designate truck routes in line with recommendations from Freight Chapter. Secure funding for installation of route signage at priority locations.	Freight improvement	Conduct a new study/planning effort	Coordination with SCDOT	Not Started	
55	Coordinate with SCDOT to install signage marking US-378 Bypass: primary east-west truck route	Freight improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements	Not Started	
56	Coordinate with SCDOT to install signage marking US-15: primary north-south truck route	Freight improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements	Not Started	
57	Coordinate with SCDOT to install signage marking US-521: primary northwest-southeast truck route	Freight improvement	Build/install physical infrastructure	Construct, install, or deliver specific physical improvements	Not Started	
58	Work with SCDOT to prioritize resurfacing on designated truck routes to reduce noise and vibration from trucks.	Freight improvement	Change a process or regulation	Coordination with SCDOT	Not Started	
59	Publish and distribute educational materials to businesses and industries concerning truck routes.	Freight improvement	Carry out a specific planning function	Partnerships & coordination with community stakeholders	Not Started	
60	Work with SCDOT to create a secondary truck route between US-378 (west) and US-15 (south) by upgrading portions of Kings Highway (SC- 261), Cane Savannah Road, St. Pauls Church Road, Cains Mill Road, and Clipper Road.	Freight improvement	Carry out a specific planning function	Coordination with SCDOT	Not Started	

APPENDIX 4 - REVISION/AMENDMENT HISTORY

Amendment #	Revision Date	Description of Amendment
1	9/20/2024	<ul style="list-style-type: none">Adoption of Annual FAST Act Safety Performance Measure Targets for 2021-2025
2	2/21/2025	<ul style="list-style-type: none">Inclusion of 2024 Statewide System Performance Report as an appedix to the LRTP.
3	6/20/2025	<ul style="list-style-type: none">Comprehensive Revision of Chapter 12 Implementation Plan Action ItemsInclusion of Annual Report Card for 2024 (year 1 of LRTP) as an appendix.

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SUATS

Sumter Area Transportation Study

Metropolitan Planning Organization