

Welcome and Town of Clayton Update

Councilmember Porter Casey

City of Raleigh

City of Raleigh

Department of Transportation

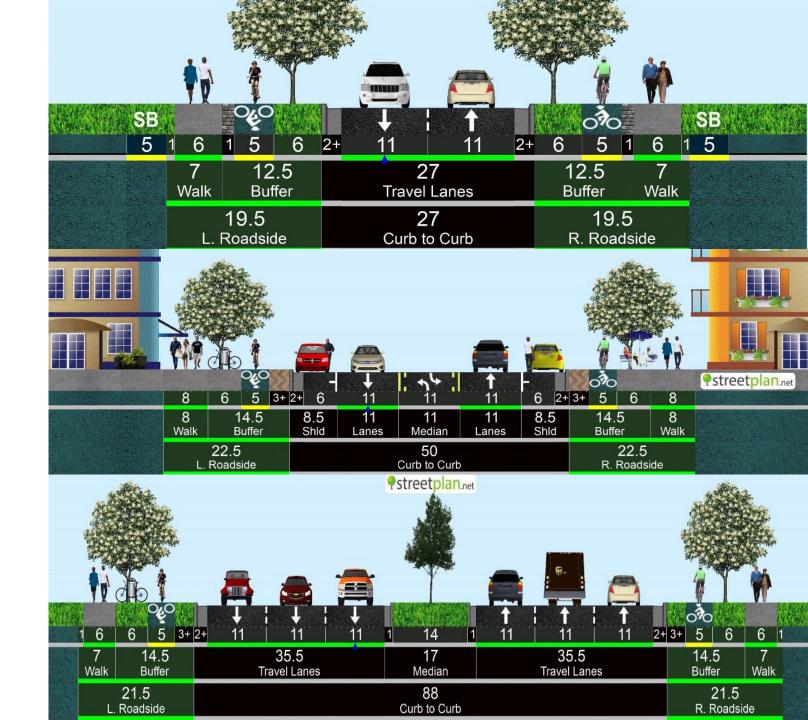
Bicycle + Pedestrian Update

Triangle Bike + Ped Workshop 2022





Updated S Design Ma



Six Forks



Lake Whee

Median + p



Blue Ridge



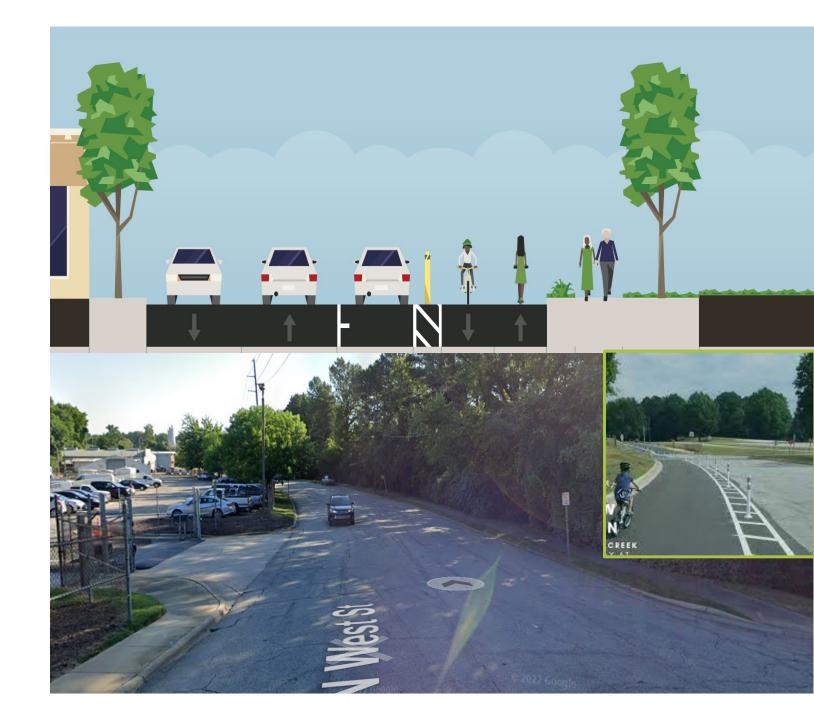
Oberlin Rd



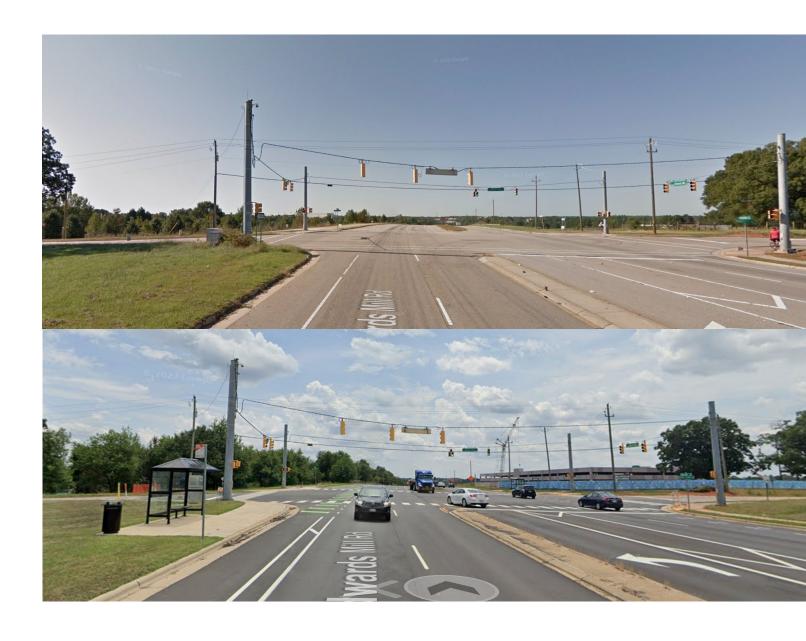
Downtown North-South Greenway Connector



DTNS Greenway Connector - Ph3



Resurfacing With Bike Lanes



Cardinal Bikeshare



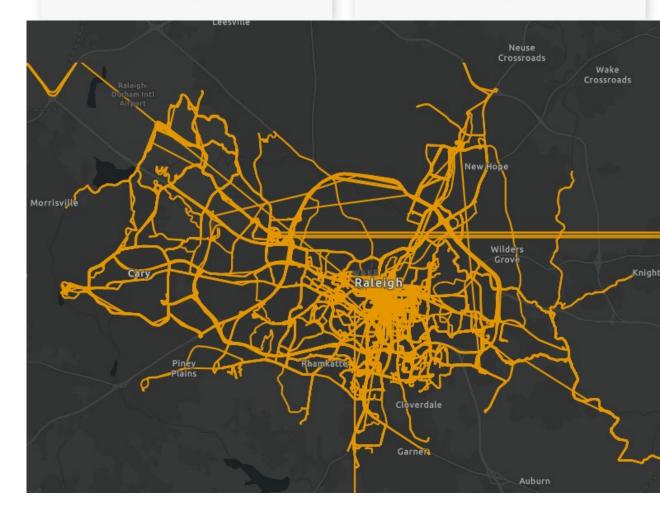
Distance traveled for current year



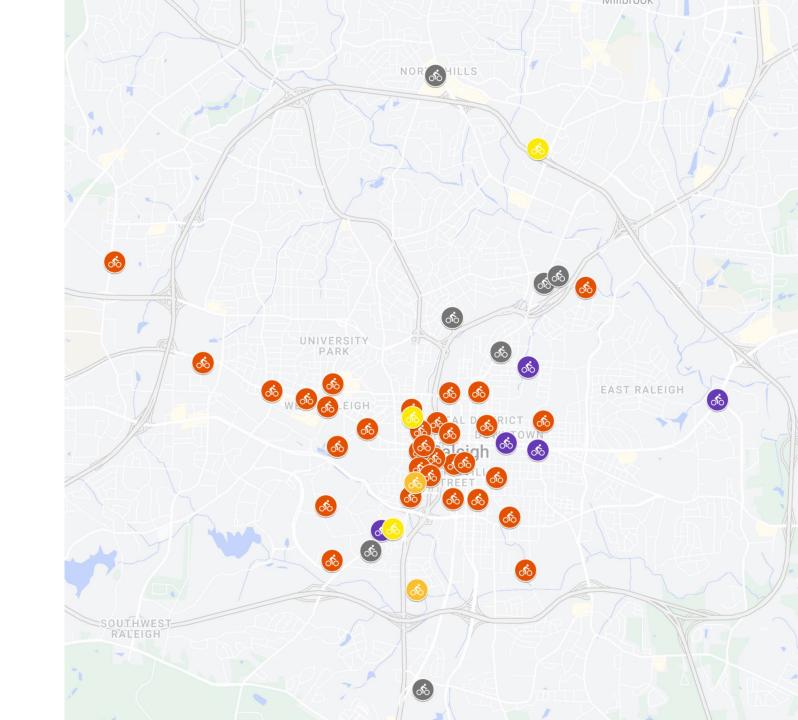
Total distance traveled since the beginning

 $\pmb{80,023.38}_{mi}$

395,659.77_{mi}



Cardinal Bikeshare Expansion



What on the Horizon?

- Evaluation of sidewalk petition program
 - · improve equitable implementation of infrastructure improvements,
 - broaden options,
 - increase eligibility, and
 - reduce barriers to participation
- Bike Plan Update
 - Address inconsistencies caused by text change
- Bus Rapid Transit
 - First/last mile connections
- Bike lane obstruction violations

Thank you!

Questions?
Fontaine Burruss
fontaine.burruss@raleighnc.gov



Town of Morrisville

Town of Morrisville

October 14, 2022

Danielle Kittredge, PhD, AICP Principal Planner

Current Projects -> Future Project

Greenway Trail Counters

- 11 trail counters; installed in 2022
- Access to data dashboard
- Maintenance contract with See Insights
- Data informs greenway trail planning and maintenance





Greenway Trail Counters

Greenway Usage Last Month

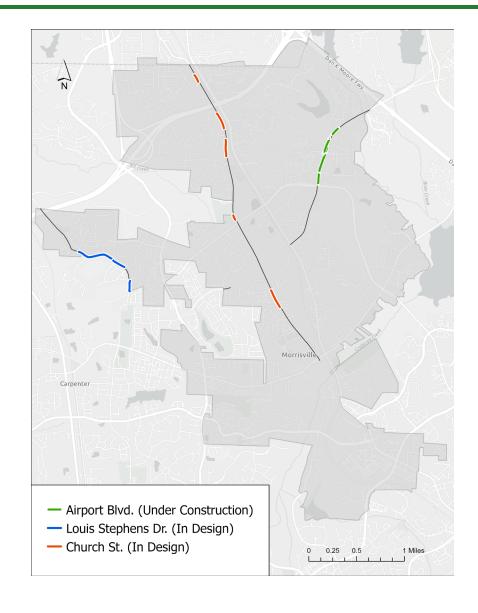
| Greenway | Usage | Last N | lonth |
|----------|-------|--------|-------|
|----------|-------|--------|-------|

| DEVICE NAME | DEVICE NAME | GREENWAY | TOTAL USAGE |
|-------------------------|-------------------------|-----------------------------------|-------------|
| Morrisville-Greenway-9 | Morrisville-Greenway-9 | Shiloh Greenway - Midway | |
| Morrisville-Greenway-11 | Morrisville-Greenway-11 | Mills Spring Greenway | 702.50 |
| Morrisville-Greenway-6 | Morrisville-Greenway-6 | Indian Creek Trailhead | 2,301.50 |
| Morrisville-Greenway-2 | Morrisville-Greenway-2 | Connectors once completed | |
| Morrisville-Greenway-10 | Morrisville-Greenway-10 | Shiloh Greenway - North End | 1,598.00 |
| Morrisville-Greenway-4 | Morrisville-Greenway-4 | | |
| Morrisville-Greenway-8 | Morrisville-Greenway-8 | Indian Creek Greenway - North End | 1,459.50 |
| Morrisville-Greenway-3 | Morrisville-Greenway-3 | Crabtree Creek Nature Park | 3,824.50 |
| Morrisville-Greenway-7 | Morrisville-Greenway-7 | Indian Creek Greenway - Midway | |

| Date | 1W-Daily- |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Max |
| | (Morrisville- |
| | Greenway- |
| | 1) | 2) | 3) | 4) | 5) | 6) | 7) | 8) | 9) | 10) | 11) |
| 2022-09-30 00:00:00 | 3004.5 | 3.0 | 3824.5 | 270.5 | 6033.5 | 2301.5 | None | 1459.5 | 3076.0 | 1598.0 | 702.5 |



Major Sidewalk Gap Projects



- EB-5814 Airport Blvd. Sidewalk Gaps
- BL-0049 Louis Stephens Dr. Sidewalk Gaps
- EB-5838 Church St. Sidewalk Gaps

Sidewalk gap projects will complete a continuous sidewalk on one or both sides of each roadway.

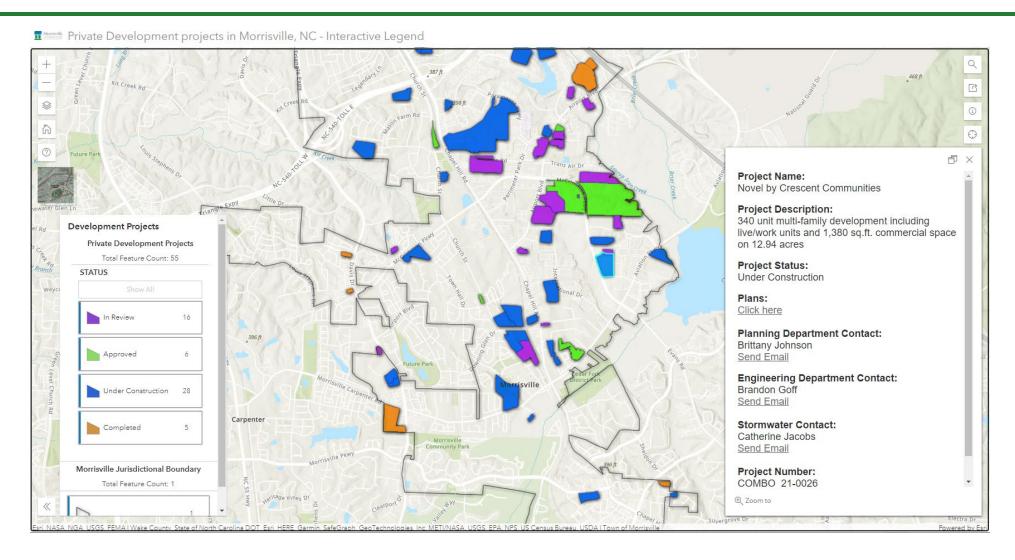


Capital Investment Program (CIP)

| Active Projects | Category | Submitted Cost Estimate | Council Ranking 2021 | PRIOR YEARS Cost Escalation | FY2023 | FY2024 | FY2025 | FY2026 | FY2027 | TOTAL |
|--|-------------------------|----------------------------|----------------------------|------------------------------|--------------|--------------|------------|---------------|--------------|---------------|
| | | | | Factor | 1.05 | 1.1 | 1.15 | 1.2 | 1.25 | |
| Sidewalk Connectivity Betterment Improvements | Bicycle & Pedestrain | \$ 1,150,000 | Active | | \$ 1,000,000 | | | | | \$ 1,000,000 |
| Sidewalk Connectivity Future Service Improvements | Bicycle & Pedestrain | \$ 2,250,000 | Active | | \$ 260,000 | \$ 2,000,000 | | | | \$ 2,260,000 |
| Emergency Traffic Pre-emption | Public Safety | \$ 350,000 | Active | \$ 350,000 | | | | | \$ 395,000 | \$ 745,000 |
| Fire Station 3 - Harris Mill | Public Safety | \$ 11,800,000 | Active | \$ 12,211,244 | | | | | | \$ 12,211,244 |
| Public Safety Radios (New) | Public Safety | \$ 1,608,000 | New | | \$ 1,608,000 | | | | | \$ 1,608,000 |
| Cedar Fork Elementary Field | Parks & Recreation | \$ 800,000 | 15 | | | | \$ 920,000 | | | \$ 920,000 |
| Crabtree Creek Nature Park | Parks & Recreation | \$ 5,000,000 | Active | \$ 500,000 | \$ 4,730,000 | | | | | \$ 5,230,000 |
| Church Street Park Expansion | Parks & Recreation | \$ 3,750,000 | Active | \$ 3,750,000 | | | | | | \$ 3,750,000 |
| Dog Park (without land purchase) (NEW) | Parks & Recreation | \$ 1,000,000 | New | | \$ 1,000,000 | | | | | \$ 1,000,000 |
| Future Town Park Land Acquisitions | Parks & Recreation | \$ 12,300,000 | Active | \$ 3,284,357 | | \$ 2,100,000 | | \$ 6,900,000 | | \$ 12,284,357 |
| Morrisville Community Park Phase 3 | Parks & Recreation | \$ 2,700,000 | Active | \$ 2,700,000 | | | | | | \$ 2,700,000 |
| Shiloh Park Improvements (NEW) | Parks & Recreation | \$ 675,000 | New | \$ 30,000 | \$ 604,000 | | | | | \$ 634,000 |
| Town Green & Plazas (Updated) | Parks & Recreation | \$ 5,000,000 | 12 | | | \$ 5,820,000 | | | | \$ 5,820,000 |
| Public Works Facility | Public Facility | \$ 21,000,000 | Active | \$ 1,300,000 | | | | \$ 22,440,000 | \$ 1,250,000 | \$ 24,990,000 |
| Airport Boulevard Ext Ph I (Town Share) | Transportation | \$ 6,443,500 | Active | \$ 1,480,000 | \$ 4,717,000 | | | | | \$ 6,197,000 |
| Intersection Improvements Ph I (Pedestrian) | Transportation | \$ 200,000 | Active | | \$ 200,000 | | | \$ 1,270,000 | | \$ 1,470,000 |
| Intersection Improvements Ph II (Current Service Level) | Transportation | \$ 3,100,000 | Active | | | \$ 300,000 | | \$ 3,360,000 | | \$ 3,660,000 |
| Intersection Improvements Ph III (Future Service Level Improvements) | Transportation | \$ 1,840,000 | Active | | | | | \$ 240,000 | \$ 2,050,000 | \$ 2,290,000 |



Interactive Development Map

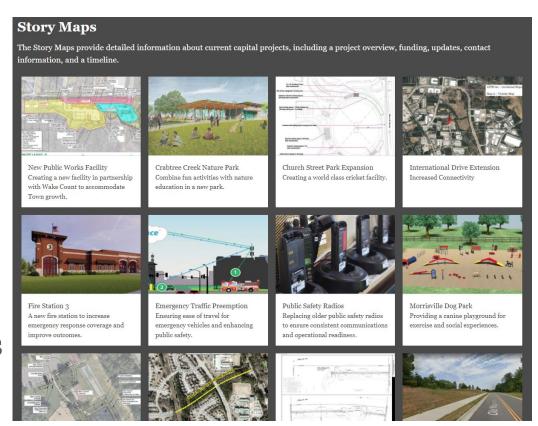




Capital Investment Program (CIP) Map

Forthcoming Interactive CIP Map

- Identifies location of each CIP project
- Pop-up box provides brief project details
- Each active project contains a link to an ESRI Story Map
- Consolidates all projects updates to one location
- Public \$\$ investment communication tool





INDEPENDENT MULTI-USE FACILITIES LEGEND - Existing Greenway Town Hall Proposed Greenway A School (K-12) --- Proposed Sidepath 📔 Community College Community Center Fire Station Police Station M Park

Saw Mill Creek Greenway

- Identified in the Town's Comprehensive Transportation Plan
- Centrally located
- Approx. 1.6 miles
- About half the land secured



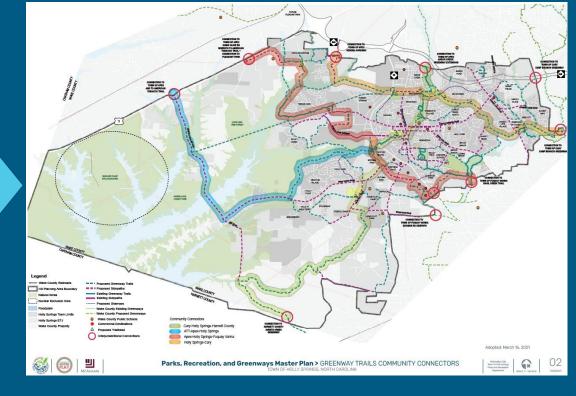
Town of Holly Springs

Greenway Development Update



Long Range Plan





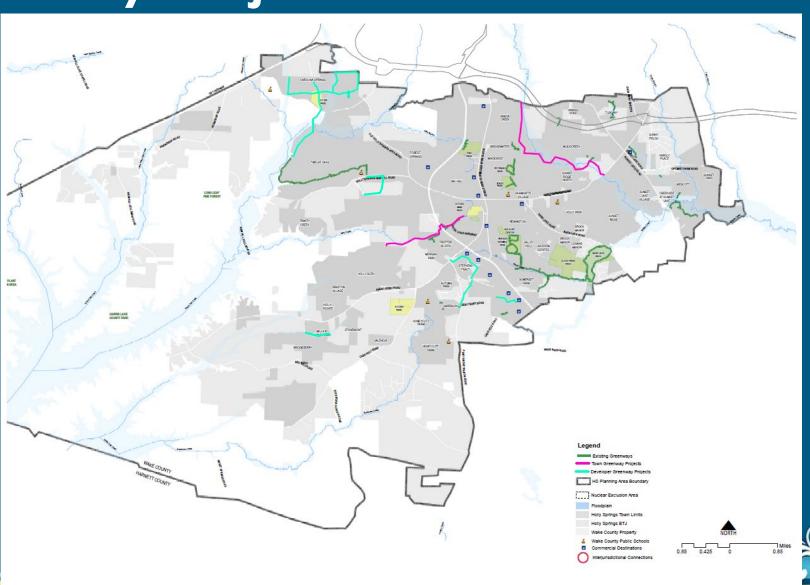


Current Greenway Projects

Ex. Greenways12 miles

Town Built(2 yr)4.7 miles

Developer Built4.9 miles



Town Projects: Arbor Creek - Middle Creek Greenway

Status: Permitting

Length: 3 miles

Cost: \$6M

Completion: Spring 2024



Town Projects: Utley Creek Greenway Phase 1

Status: Under Construction

Length: 0.7 miles

Cost: \$2M

Completion: October 28, 2022





Town Projects: Utley Creek Greenway Phase 2

Status: Planning Length: 1 mile

Cost: \$2.5 - 3M Completion: late 2024



Questions



City of Durham



City of Durham Bike & Pedestrian Project Update October 2022

Sidewalk Projects

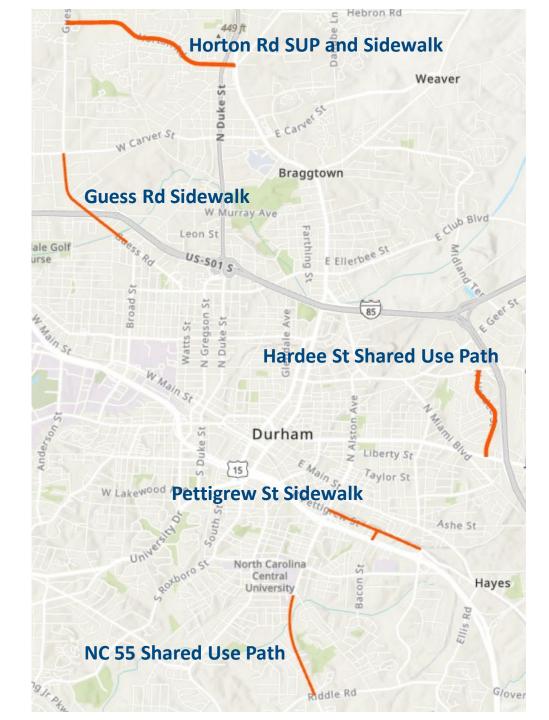
| Facility Name | Phase |
|---|----------------|
| Chapel Hill Rd SW Lakewood to Morehead | Construction |
| Alston Ave SW Capps to Riddle | Pre-Construct. |
| Carpenter-Fletcher Rd BL & SW S Alston to E Woodcroft | Design |
| Cornwallis Rd BL and SW Chapel Hill to S Roxboro | Design |
| Morreene Rd BL and SW Erwin to Neal | ROW |
| Hillandale Rd Sidepath NC 147 to I-85 | ROW |
| N Duke St SW Murray to Roxboro | ROW |
| NC 54 SW NC 55 to RTP | ROW |
| Lasalle St SW Kangaroo to Sprunt | Design |
| Raynor St SW N Miami to N Hardee | ROW |
| Clayton Rd / Freeman Rd SW Chandler to Obsidian | ROW |
| Hillsborough Rd SW Bus Stop to N LaSalle | ROW |
| Holloway St SW Gary to Guthrie | ROW |
| Old Oxford Rd SW N Roxboro to Dearborn | ROW |
| Corporation St SW N Duke to Mangum | ROW |
| SW Durham Dr SW Durham Chapel Hill to Old Chapel Hill | ROW |
| Fulton St SUP NC 147 to Pratt St | ROW |
| E Club Blvd SW Stephenson St to Glenbrook Dr | Design |



Upcoming Sidewalk / Sidepath Projects

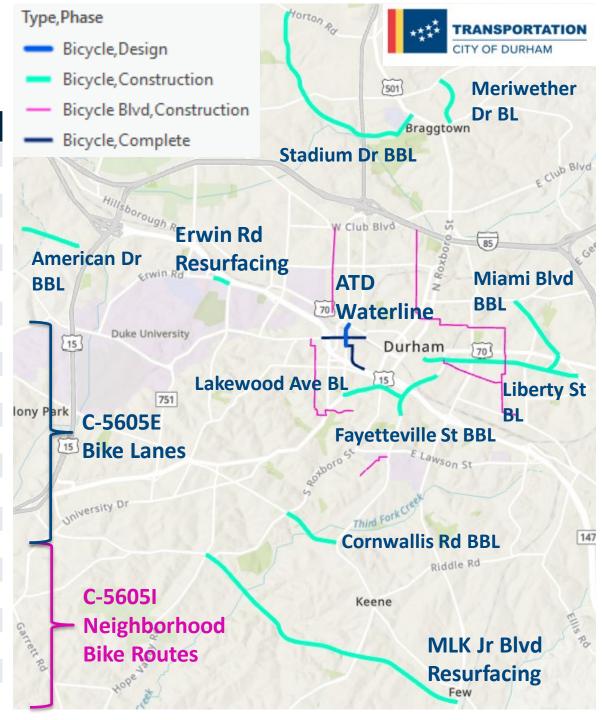
| Project ID | TIP | Facility Name | Facility Type | Phase |
|---------------|---------|---|------------------------------------|------------|
| SW-79 | | Pettigrew St / Bacon St SW Briggs to Alston | Sidewalk | Design |
| SW-79 | | Hardee St SW Cheek to Holloway | Shared Use Path | Design |
| SW-72 | EB-5834 | Guess Rd SW Hillcrest Dr to W Carver St | Sidewalk | Pre-Design |
| | EB-5835 | NC 55 SUP Riddle Rd to Cecil St | Shared Use Path | Pre-Design |
| | BL-0063 | Horton SUP and SW Roxboro to Guess | Shared Use Path and Sidewalk | Pre-Design |



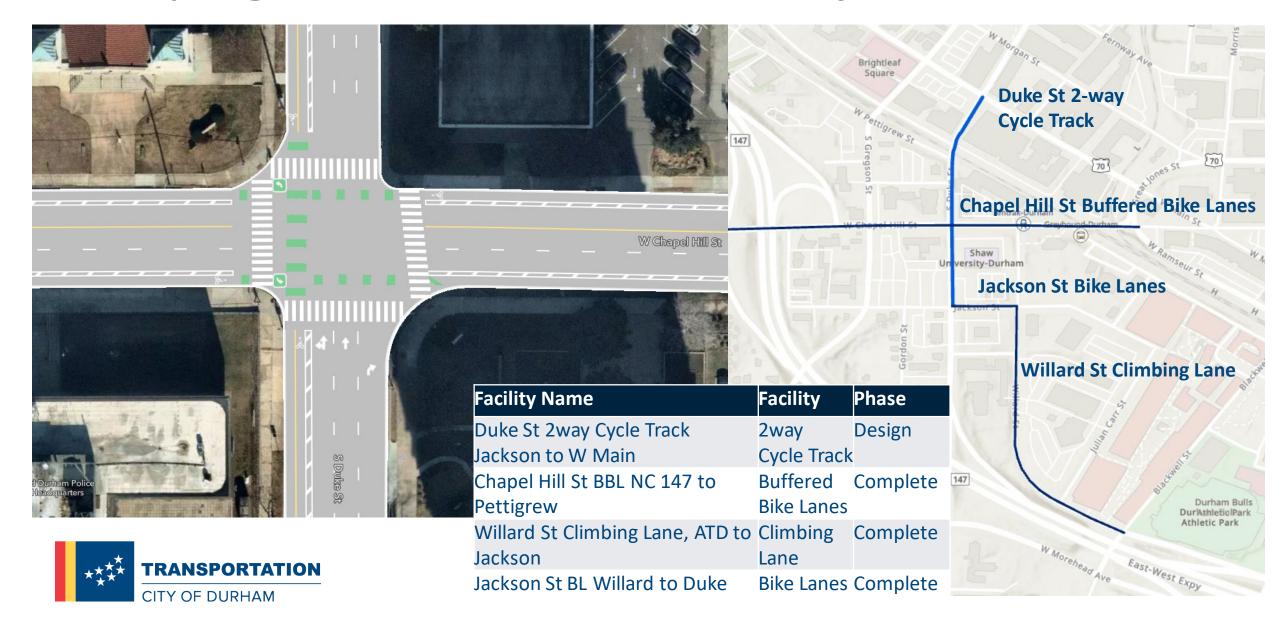


On-Street Bike Projects

| Project / TIP | Facility Name | Facility | Phase |
|---------------|---|----------|---------------|
| ATD Waterline | Duke St 2way Cycle Track Jackson to W Main | 2wayCT | Design |
| ATD Waterline | Chapel Hill St BBL NC 147 to Pettigrew | BBL | Complete |
| ATD Waterline | Willard St Climbing Lane, ATD to Jackson | CL | Complete |
| ATD Waterline | Jackson St BL Willard to Duke | BL | Complete |
| Resurfacing | Erwin Rd BL Anderson to Flowers | BL | Construction |
| Resurfacing | MLK Jr Blvd BBL NC 55 to Hope Valley | BBL | Construction |
| C-5605E | American Dr BL Morreene to Constitution | BL | Construction* |
| C-5605E | E Cornwallis Rd BBL S Roxboro to Fayetteville | BBL | Construction* |
| C-5605E | E Lakewood Ave BL S Duke to Fayetteville | BL | Construction* |
| C-5605E | Liberty St BL Dillard to Miami | BL | Construction* |
| C-5605E | Raynor St BL and SL Liberty to Miami | BL, SL | Construction* |
| C-5605E | N Miami Blvd BBL and BL Raynor to Geer | BBL, BL | Construction* |
| C-5605E | Fayetteville St BBL E Umstead to Main | BBL | Construction* |
| C-5605E | Stadium Dr Olympic Dr BBL Horton to Roxboro | BBL | Construction* |
| C-5605E | Meriwether Dr BBL Old Oxford to E Carver | BBL | Construction* |
| C-5605I | Watts St BBlvd Club to Morgan | BBlvd | Construction* |
| C-5605I | Glendale Ave BBlvd Knox to Corporation | BBlvd | Construction* |
| C-5605I | Taylor St BBlvd Elizabeth to Gary | BBlvd | Construction* |
| C-5605I | Corporation St BBlvd Duke to Miami | BBlvd | Construction* |
| C-5605I | Arnette Ave BBlvd Chapel Hill to University | BBlvd | Construction* |
| C-5605I | Maple St BBlvd Juniper to Angier | BBlvd | Construction* |
| C-5605I | Otis St BBlvd ATT to NCCU | BBlvd | Construction* |

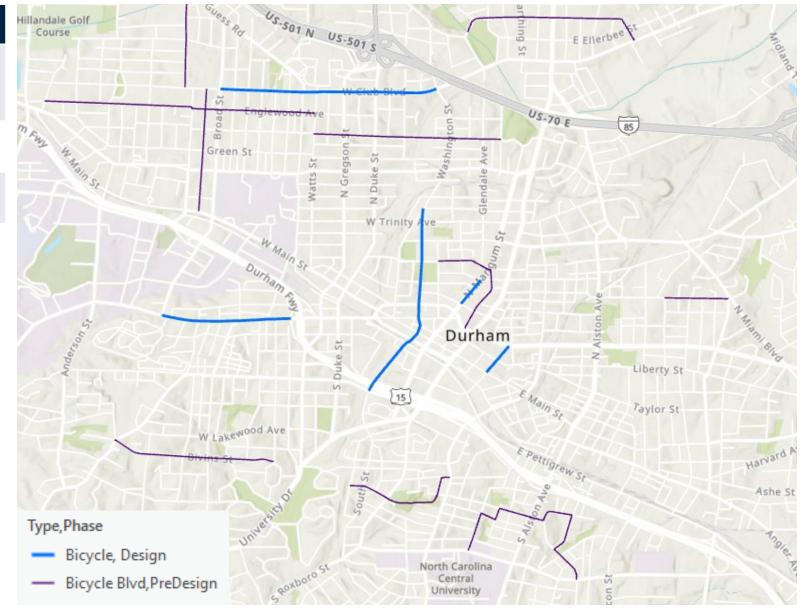


Restriping with ATD Waterline Project



Upcoming On-Street Bike Projects

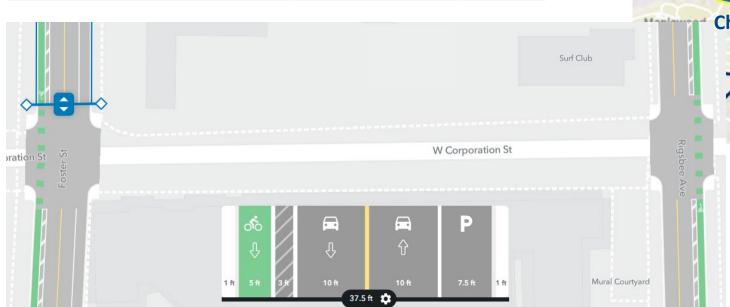
| TIP | Project Name | Facility Type | Phase |
|---------|--------------------------------------|--|----------------|
| BL-0028 | Durham Bike Facilities II | Bike Lanes / Buffered Bike Lanes | Pre- Design |
| BL-0030 | Vertical Protection for Bike Lanes | Protected Bike Lanes | Pre- Design |
| BL-0031 | Neighborhood Bike Routes Phase II | Bike Boulevard | Pre- Design |
| | 2023 NCDOT Resurfacing | TBD | Pre- Design |

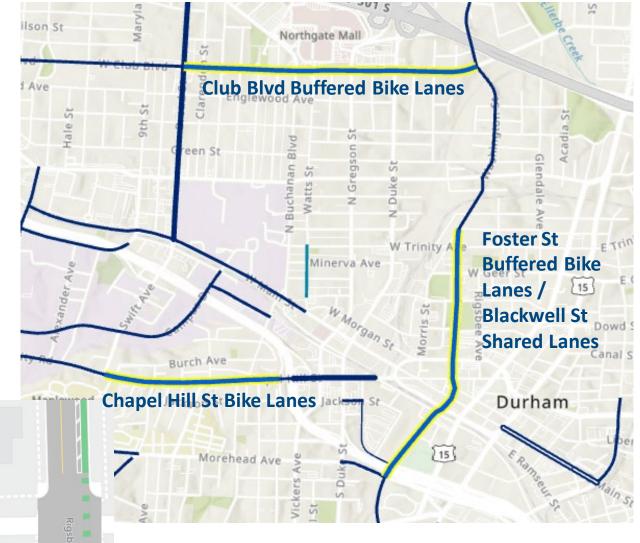




Durham Bike Facilities II (BL-0028)

| Facility Name | Facility Type | Phase |
|--|------------------------|----------------|
| Foster St /Corcoran St /Blackwell St BBL and SL ATT to Trinity Ave | | Pre- Design |
| Club Blvd BL / BBL Broad St to Washington St | Buffered Bike Lanes | Pre- Design |
| Chapel Hill St BL Swift Ave to NC 147 | Bike Lanes | Pre- Design |

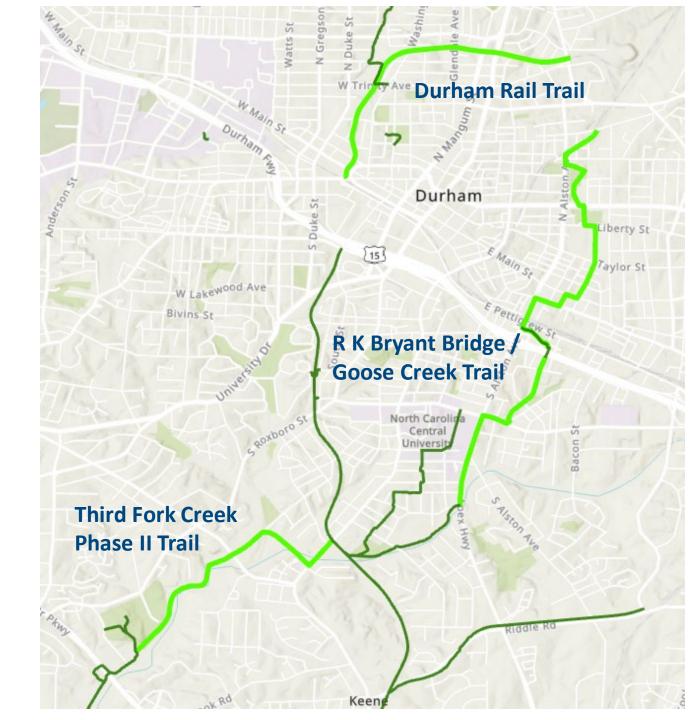


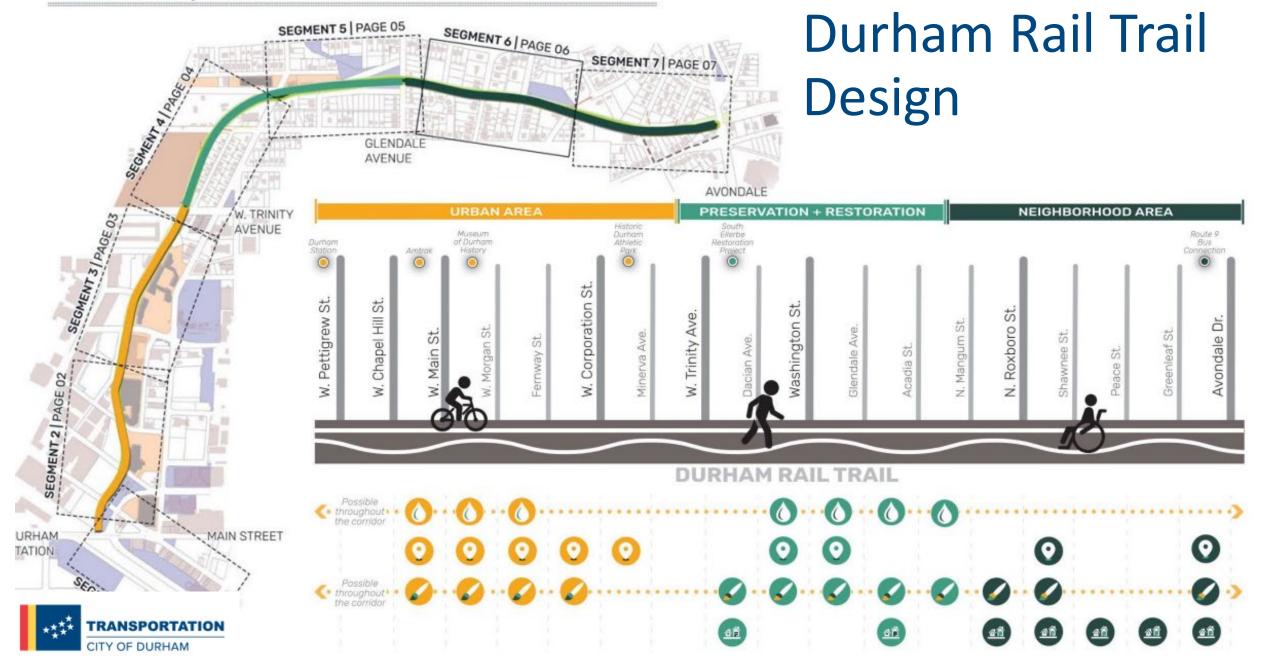


Greenway Projects

| TIP | Facility Name | Facility Type | Phase |
|---------|--|---------------|--------|
| | R. K. Bryant Bridge / Goose Creek Trail, Drew St to Rocky Creek Trail | Greenway | Design |
| EB-5837 | Third Fork Creek Trail, Southern Boundaries Park to ATT | Greenway | Design |
| | Durham Rail Trail E Pettigrew to Avondale | Greenway | Design |







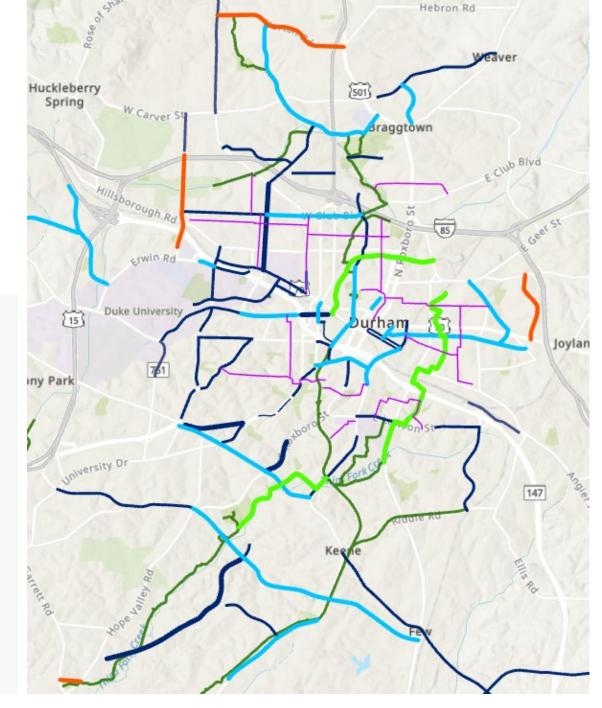
Existing and Future Bike Network



- On Street Bike Facility
- Bike Boulevard
- Greenway
- Sidepath

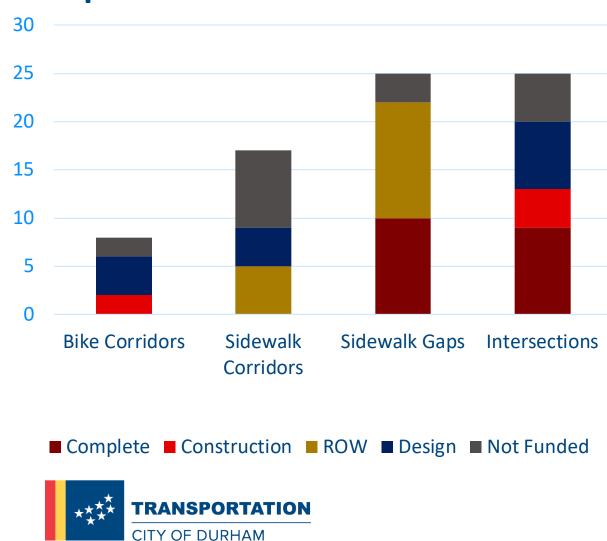
Existing Bike Facility

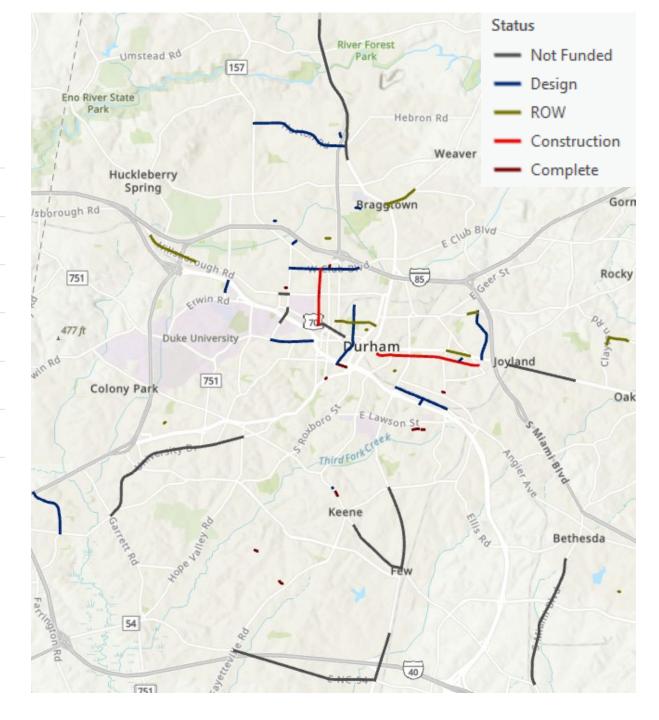
- Bike Lane
- Bike Lane 1 side
- Shoulder
- ContraFlow Bike Lane
- Buffered Bike Lane
- Protected Bike Lane
- Greenway





Bike+Walk Plan Implementation





Bull E-Bikes Program



"I was able to hook up an old bike trailer

and am biking with my 2 kids to school! It

has been a big hit with my kids and with

other kids and parents at school. My 7yr

old is biking next to me while my 5yr old

Questions?

DurhamNC.gov







Town of Chapel Hill









COVID Lanes

Vision Zero







"BE IT FURTHER RESOLVED that the safety of all road users shall take priority over vehicular level of service and throughput, and safety of vulnerable road users shall be given top priority in transportation decisions"







Bike Lanes, Bike Lanes



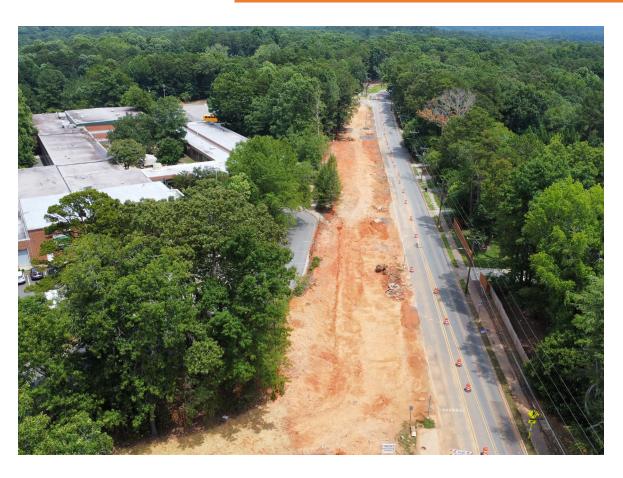


Bike Lanes!

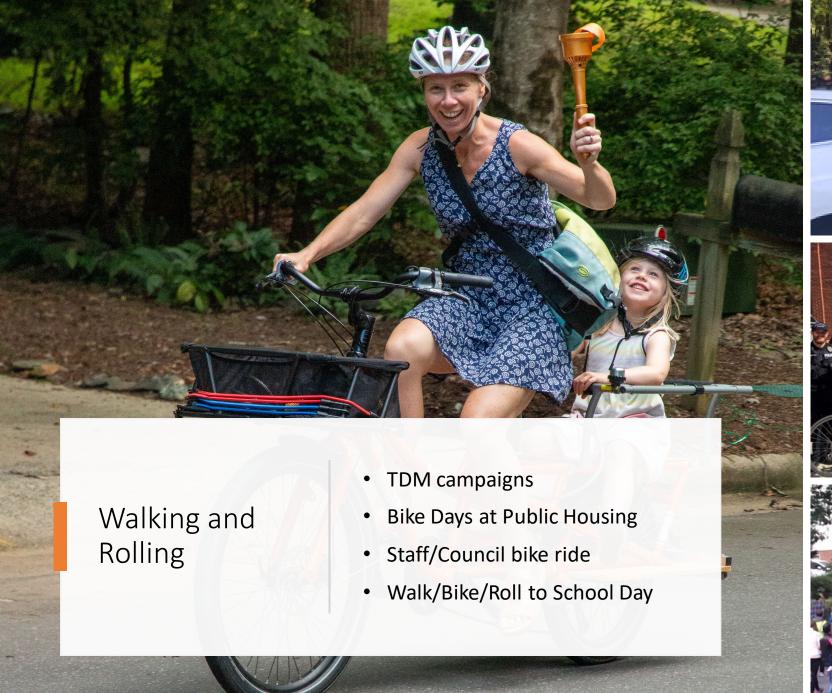


Estes Drive Connectivity















Town of Cary



Cary Updates -Triangle Bike and Pedestrian Workshop

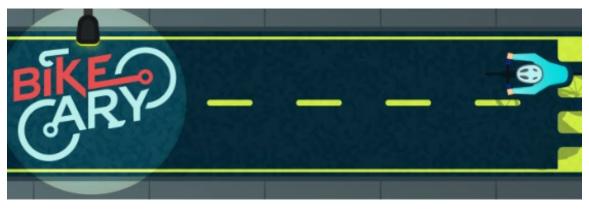
October 2022

Current Bike/Ped Infrastructure

- 90 Miles of Greenway
- 471 Miles of Sidewalk
- 79 Miles of On-Road Bike Facilities (Striped Bike Lanes / Signed Bike Routes / Sharrows)





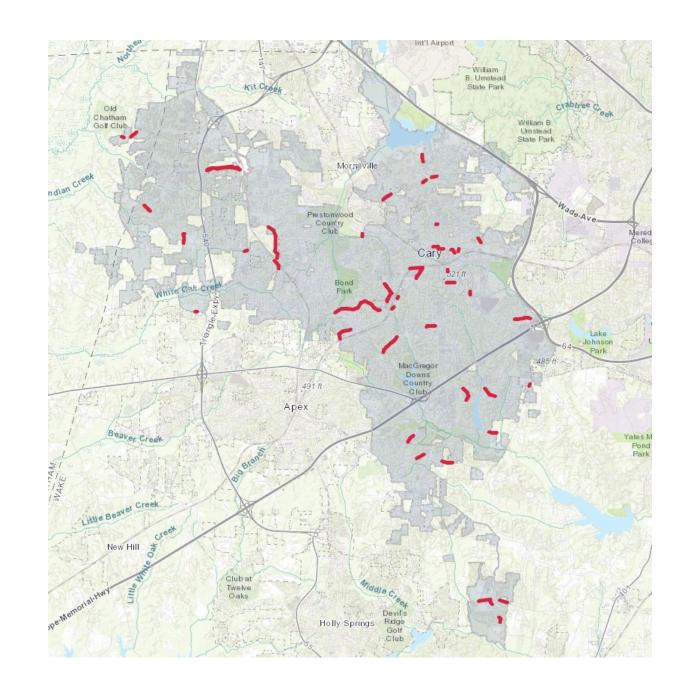


Bike Cary Plan & Greenways Master Plan Updates

Summer/Fall 2022 – Winter/Spring 2024

ARPA Funding: Sidewalks & Street-Side Trails

- Goals: Improve Safety & Mobility, Fill Critical Gaps, Connect Neighborhoods to Activity Centers
- \$12 million
- 14 Sidewalk / Street-Side Trail Projects Funded



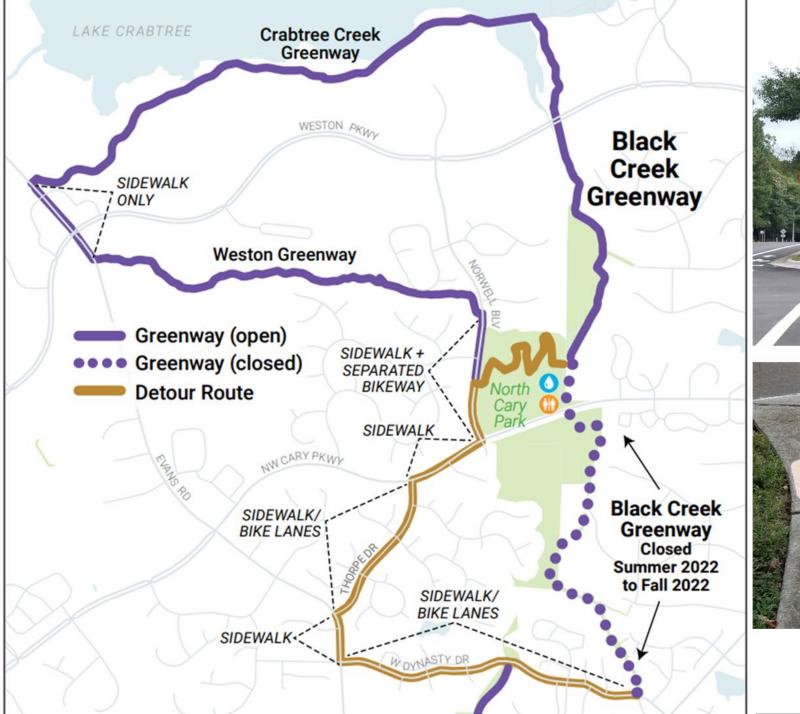




Bikeway Projects











Cemetery Trail - After



CEMETERY GATE

"EDGE TO EDGE CLEARANCE

6' ASPHALT TRAIL WITH 12' FLUSH CURBS

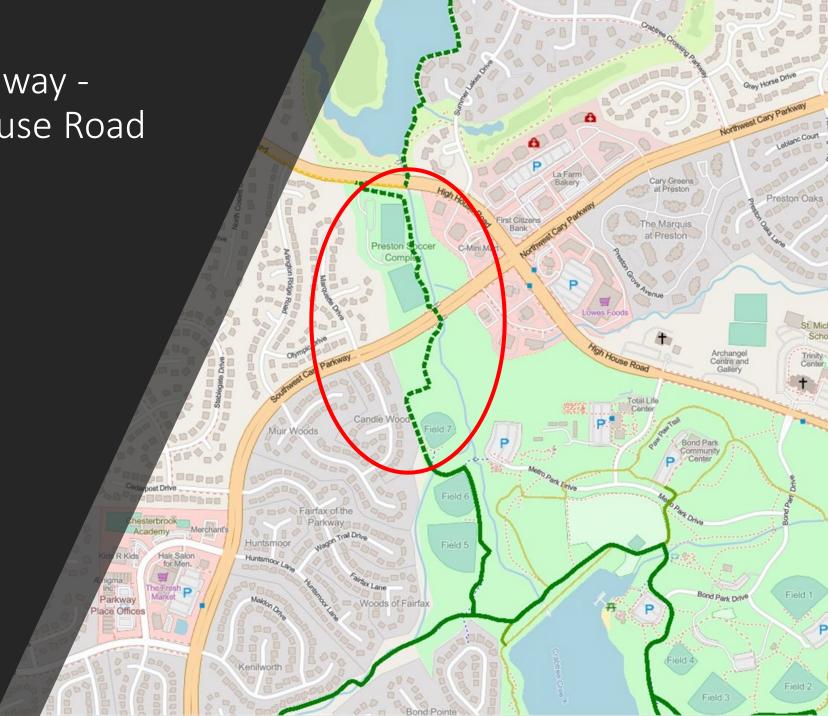
AMERISTAR SCHELON 2 - 4 FLUSH MOUNT FENCE ON A" CONCRETE CURR

EXTEND BRICK WALK TO TRAIL EDGE



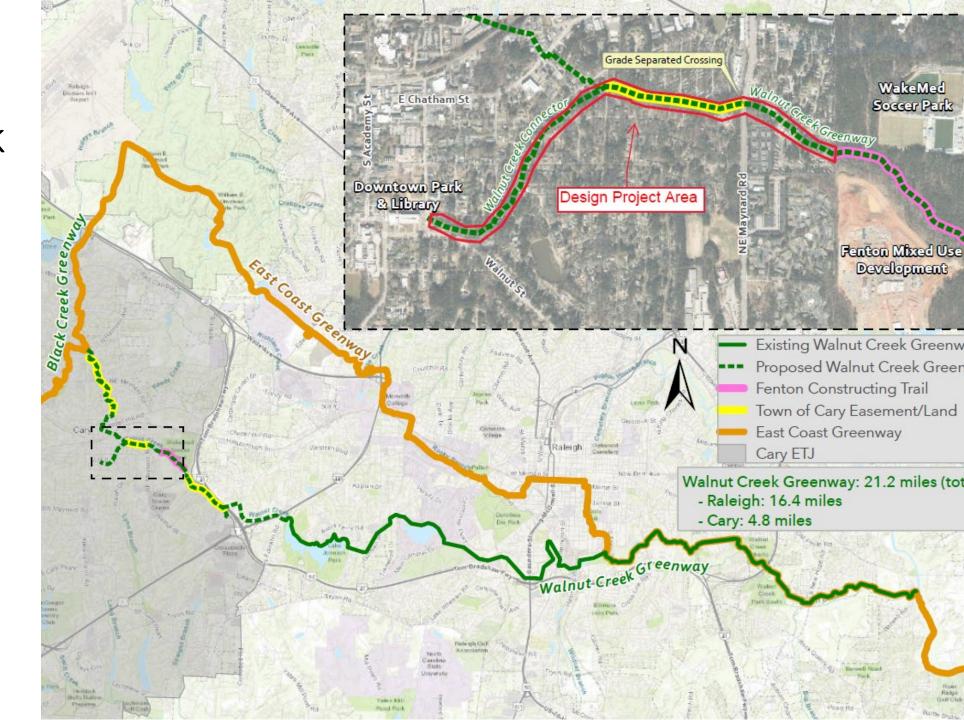
Crabtree Creek Greenway -Bond Park to High House Road

- Under Cary Parkway
- 2,500 feet
- CMAQ Grant = \$1.65 Million
- 75% Design
- Completion Fall 2024



Walnut Creek Greenway

 Conceptual alignment and stormwater evaluation







Greenway Bike & Wine

1:30 – 4:30 p.m. | Sunday, October 30 | 019801

Bring your bike & join us for a 10-mile ride from Bond Park out White Oak Creek Greenway.

Learn about Cary greenways and the ecological benefits of 500 acres of conservation land along White Oak Creek. After the ride, relax by Bond Lake and enjoy wine tastings, charcuterie, and music.

Registration required on myCary.org.

\$40/person

Meet at Trailhead Kiosk/Roundabout in Bond Park www.townofcary.org/greenways

Town of Carrboro

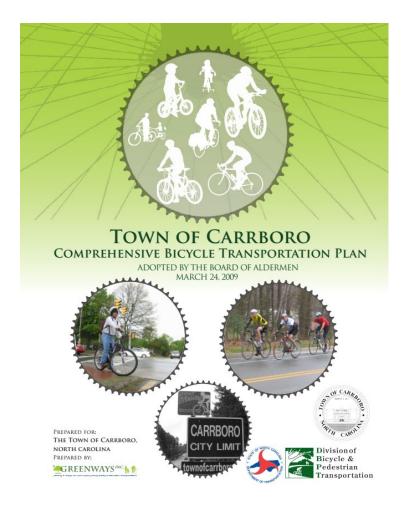




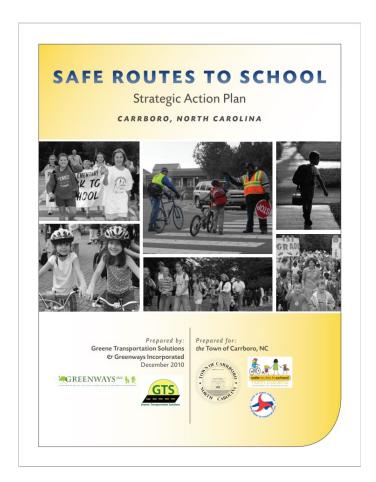
TRIANGLE BICYCLE AND PEDESTRIAN WORKSHOP

October 14, 2022

Triangle Bicycle and Pedestrian Workshop 2019



2009 Comprehensive Bicycle Transportation Plan

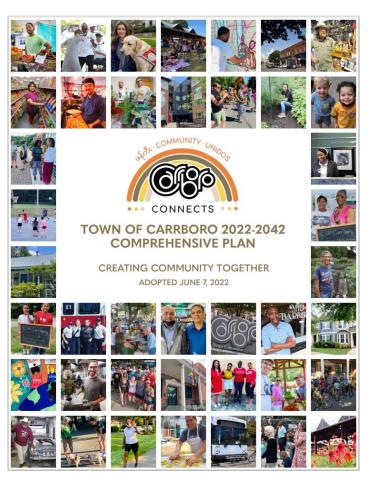


2010 Safe Routes to School Strategic Action Plan

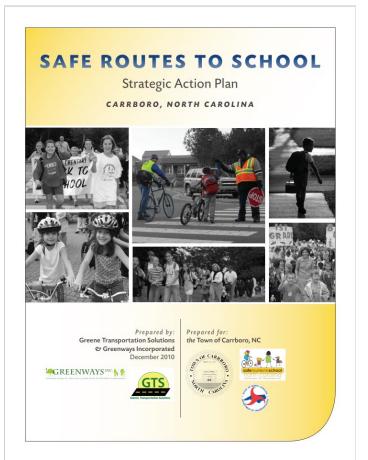
Updates from Carrboro Today



Updated Bike Plan (2020)



New Comprehensive Plan (2022)



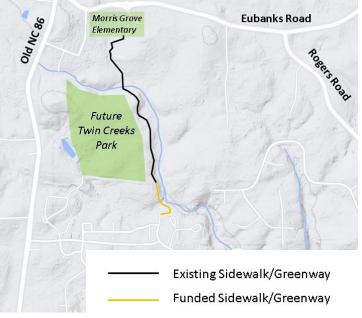
Renewed energy toward SRTS Plan with Restructured Implementation Committee

STIP Projects – Town of Carrboro

Jones Creek Greenway Project

- Part of the Bolin Creek Greenway
 System
- Connects Lake Hogan Farm Rd to existing Orange County greenway
- Completes off-road infrastructure from LHF to future Twin Creeks Park & Morris Grove Elementary School
- Design at 90-percent & permits under review





STIP Projects – Town of Carrboro, continued

Morgan Creek Greenway - Phase 1

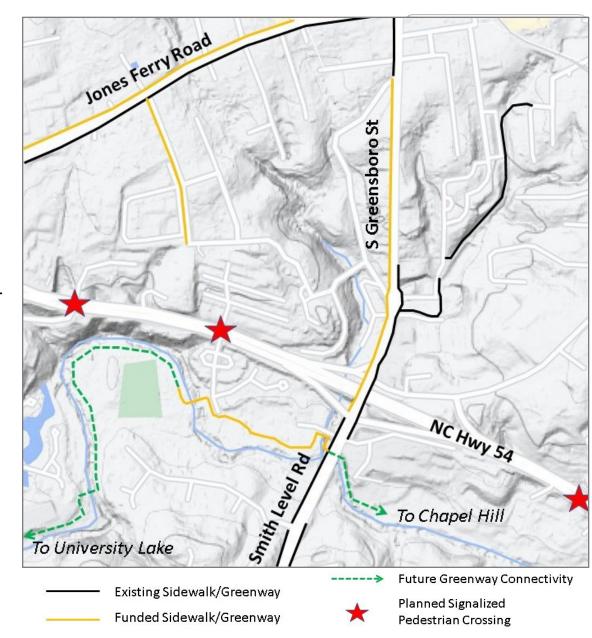
- Advertised in 2019, received high bids
- Modifications underway in preparation for readvertisement.
- Will connect to Chapel Hill system to east, University Lake to south

Signalized Pedestrian Crossings

- Collaboration with Chapel Hill, Chapel Hill Transit & NCDOT to design/construct signalized crossings at 3 locations with high transit use
- Design underway

Sidewalk Projects

- South Greensboro Street design at 65%
- Connects to Roberson Bikeway
- Future sidewalk projects on Barnes Street & Jones Ferry Road funded



Resurfacing / Restriping Projects

NCDOT Resurfacing Projects

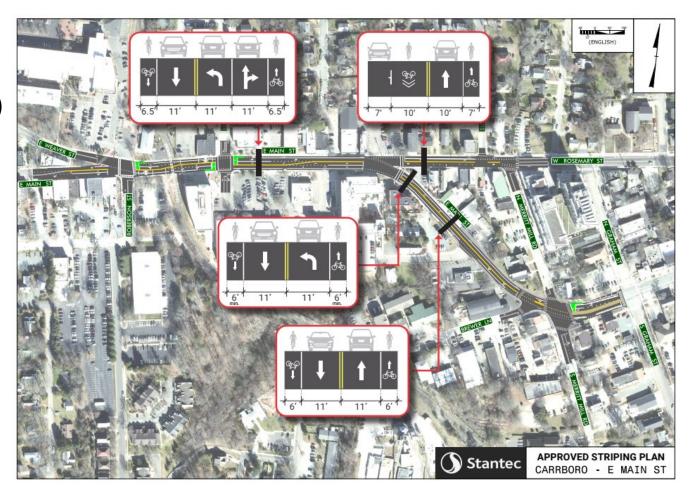
- East Main Street
- Merritt Mill Road (in partnership with Chapel Hill)
- Jones Ferry Road
- North Greensboro Street
 - Bike detector loop project

Town Resurfacing Projects

- Bike Plan pavement markings (sharrows)
- Traffic Calming measures

ADA Projects

Review/approval/installation of crosswalks at certain locations





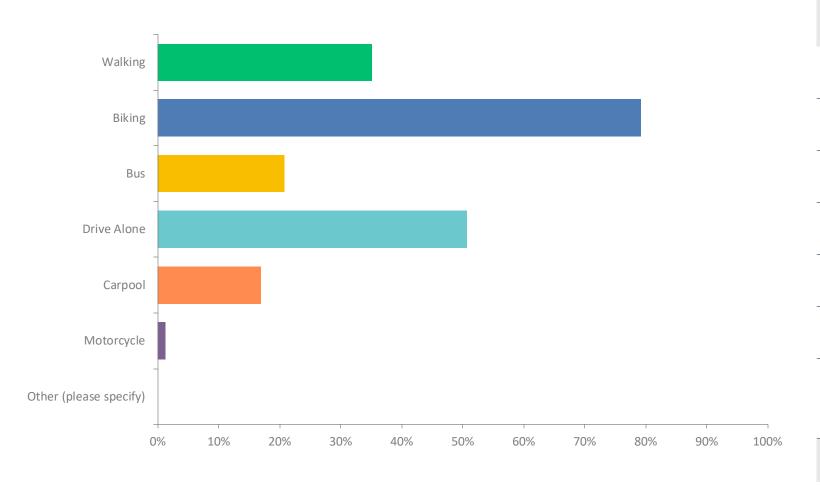
Protected Bike Lane Pilot Project



- Existing buffered bike lane along Jones Ferry Road (owned by NCDOT) ... few driveways
- In response to community interest in improving safety, Town staff requested a pilot project to experiment with flexible delineators through NCDOT's encroachment agreement process
- Allowed the public to experience and comment on this treatment
- Allowed the Public Works Dept. to understand the maintenance requirements

Q2: How do you travel along Jones Ferry Road? (Select all that apply)

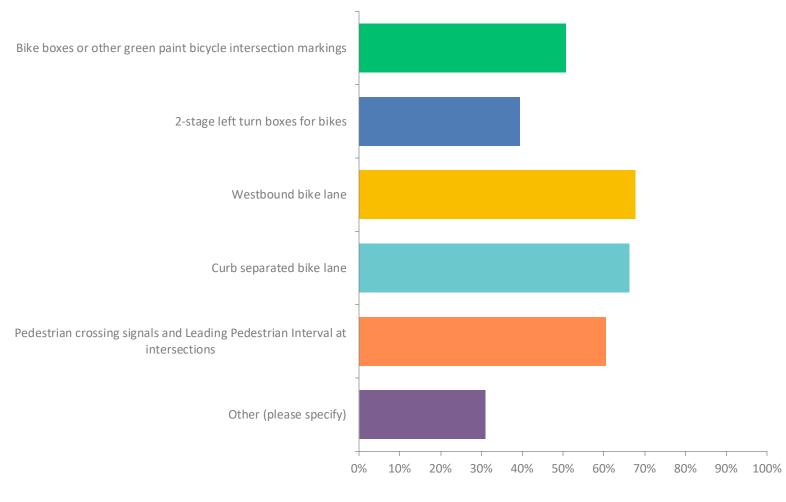
• Answered: 77 Skipped: 0



| ANSWER CHOICES | RESPONSES | |
|------------------------------|-----------|-----|
| Walking | 35.06% | 27 |
| Biking | 79.22% | 61 |
| Bus | 20.78% | 16 |
| Drive Alone | 50.65% | 39 |
| Carpool | 16.88% | 13 |
| Motorcycle | 1.30% | 1 |
| Other (please specify) | 0% | 0 |
| TOTAL | | 157 |

Q9: Are there other improvements you would like to see along this corridor in the future? (select all that apply)

Answered: 71 Skipped: 6



| ANSWER CHOICES | RESPONSES | |
|--|-----------|-----|
| Bike boxes or other green paint bicycle intersection markings | 50.70% | 36 |
| 2-stage left turn boxes for bikes | 39.44% | 28 |
| Westbound bike lane | 67.61% | 48 |
| Curb separated bike lane | 66.20% | 47 |
| Pedestrian crossing signals and Leading Pedestrian Interval at intersections | 60.56% | 43 |
| Other (please specify) | 30.99% | 22 |
| TOTAL | | 224 |

Updated Bike Plan Priority Projects

Map 10: Existing, in Development, & Strategic Priorities EXISTING BIKE NETWORK - Bike Lanes Bike Lane One Side Only - Shared Use Path === Separated Bike Lanes --- Bike Lanes --- Neighborway === Shared Use Path DEVELOPMENT STATUS PRIORITY STATUS Strategic Priority DESTINATIONS C Key Destinations Parks/Public Open Space // UNC 501

HOMESTEAD RD SIDEPATH LINK

pg. 52

This project will connect large residential hubs and fill a gap from north Carrboro to downtown by connecting bike lanes along Lake Hogan Farm Rd and Stratford Dr.



2 HILLSBOROUGH ST AND N GREENSBORO ST INTERSECTION IMPROVEMENTS

, 54

This is a an unsignalized intersection along a critical bike route. Improving the intersection will increase safety and comfort for all users.



3 SHELTON ST CONTRAFLOW BIKE LANE

_{.,.} 56

The Shelton St contraflow bike lane will fill an important gap between the Hillsborough St bike lanes and Carrboro Elementary.



4 WEST MAIN ST
BIKE LANES &
INTERSECTION
IMPROVEMENTS

_{pg.} 58

Intersection improvements and bike lanes on both sides of the street (filling gaps) will improve bike access to downtown along West Main St.



JONES FERRY RD
SEPARATED BIKE LANES

62

Separated bike lanes along Jones Ferry Rd will bring much-desired safety benefits to this heavily used commuter corridor.



Status

Funding for part of project: design/construction of RRFB to provide signalize pedestrian crossing at Claremont.

Improved ramps and crosswalks approved and will be installed as part of NCDOT ADA ramp project.

Under design.

Very preliminary scoping of steps to implement.

Consulting with NCDOT on incorporating lane changes/addition of buffered bike lane in segment under NC 54 as part of NCDOT resurfacing.

5 | TRANSPORTATION & MOBILITY 5 | TRANSPORTATION & MOBILITY

Transportation & Mobility Strategies Map

The map on the following page provides an overview of current and proposed strategies to improve active transportation (such as walking, biking, etc.) in Carrboro. Details about the priority area/corridors and in-development projects can be found on the following pages. Intersection improvements refer to suggestions for improving pedestrian safety. The details of this map were informed by the 2009 Bike Plan and 2020 Updated Bike Plan as well as community members' feedback on transportation infrastructure changes. This map does not provide an exhaustive list of projects and priorities, which may shift in the future.

- A. Estes Dr. (Hillcrest to N. Greensboro): Carrboro has installed a marked crosswalk with two pedestrian hybrid beacons on N Greensboro (need for improvement predates plan)
- B. Hillsborough & Old Fayetteville Road: Carrboro has installed a pedestrian refuge island (need for improvement predates plan)
- C. Jones Ferry Road (NC-54 to Hillsborough): Bike Improvement (protected bike lanes on Jones Ferry Rd), Safety Improvements to Reduce Speed
- D. NC-54 (at Henry Anderson Park): Sidewalk
 Connectivity, Bike Improvement (connect park to Old
 Favetteville with shared use path)
- E. S. Greensboro (Carr to Old Pittsboro): Safety Improvements to Reduce Speed (improve signage and connectivity at Carr to access South Green Shops), Pedestrian Safety
- F. Greensboro (Estes to Weaver): Safety Improvements to Reduce Speed (traffic calming at Short), Sidewalk Connectivity, Intersection Improvement (Weaver & Greensboro to access Community Center)
- **G. N. Greensboro (Hillsborough to Estes):** Safety Improvements to Reduce Speed, Bike Improvement
- H. Hillsborough (N. Greensboro to W. Main/E. Poplar): Bike Improvement, Additional Pedestrian Lighting, Safety Improvements to Reduce Speed

- I. Smith Level Road: Bike Improvement, Safety Improvements to Reduce Speed (safe routes to school), Green Stormwater Infrastructure Improvements
- J. NC-54 (Main to Jones Ferry): Safer Crosswalks, Traffic Signals at Bus Stops, Additional Pedestrian Lighting, Improved Connectivity to Downtown
- K. Hogan Lake Trail: Bike Improvement, Sidewalk Connectivity, Greenway Improvement (protected passive recreation area)
- L. Main Street (Downtown Carrboro): Bike
 Improvement, Intersection Improvement, Improve
 Wayfinding and Regulatory Signage, Safety
 Improvements to Reduce Speed, Improve Sidewalk
 Conditions, consider options for future of rail corridor
- M. Homestead Rd. & Old NC 86: Once development occurs, improve bike facilities and extend transit service
- N. Barred Owl Creek: Green Stormwater Infrastructure Improvements & Residential Assistance
- O. Carolina North Forest: Continue Initiatives to Improve Access and Travel (not Carrboro property)
- P. Jones Creek Greenway: Continue Initiatives to Improve Greenway Access and Travel
- Q. Morgan Creek Greenway: Continue Initiatives to Improve Greenway Access and Travel (pedestrian bridge to cross Morgan Creek)

Transportation & Mobility Strategies Map Priority Area/Corridor In-Development Safety Improvements to Reduce Speed (only Weaver and Poplar are Intersection Improvemen Bike Plan Recommendations Bike Lane Separated Bike Lane Shared Use Path Carrboro Planning Jurisdiction



Questions?

Contact

Tina Moon, Planning Administrator cmoon@carrboro.nc



Walk/Bike to School Day - October 12, 2022
Carrboro Elementary School students

Town of Apex





Pedestrian and Bicycle Initiatives

2022 Updates – Progress and Emerging Needs

Overview

- Safe routes to school
- 2021 Streets & Sidewalks bond
- Recently completed projects
- Project efforts underway
- Vision Zero Action Plan
- Bikeshare



SRTS Need Evaluation & Expanding the Toolbox

Background

- Planning staff began SRTS initiative in Summer 2018
- Interviewed principals in 2018
- Utilized SRTS interviews and analysis to inform Capital Improvement Plan requests

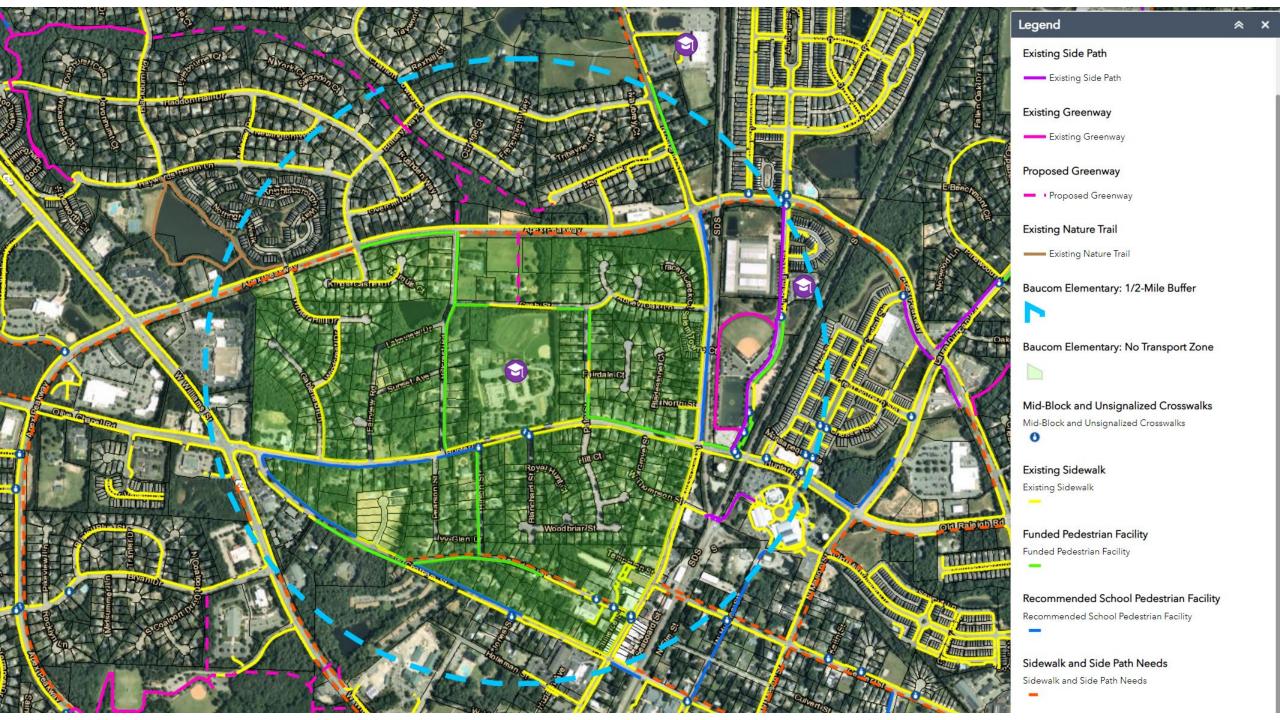




Second Round of Principal Meetings

- 16 follow-up meetings in August 2021-January 2022
 - Summarize previous conversation
 - Share Town's approach to addressing SRTS needs through Capital Improvement Plan and potential bond
 - Share status updates on identified needs
 - Gain insight into current conditions
 - o Identify current pedestrian and bicycle infrastructure needs





Expanded Interactive Map Features

- Includes all sidewalk and side path gaps along thoroughfares and collectors in addition to the safe routes to school needs
- Includes updated ROW and construction cost estimates based on recently completed projects



Streets & Sidewalks Bond

Streets & Sidewalks Bond

- Approved in Fall 2021
- Includes \$6M for safe routes to school projects
- SRTS funding timeline:
 - 。 \$1M in FY21-22
 - \$5M in FY25-26
 - Reserve \$2M for new schools and emerging needs



Recently Completed Projects

Apex Middle

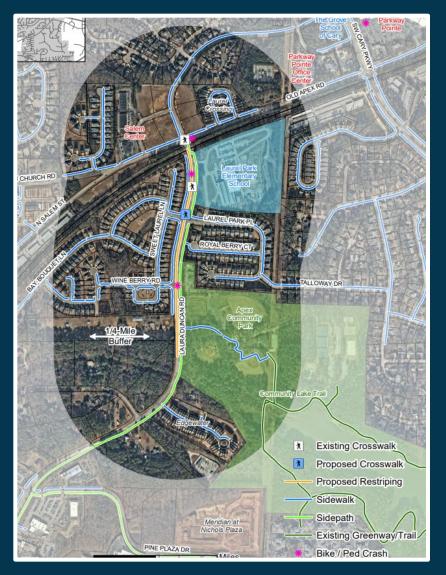
- LAPP U-5530 AC
- James St to Downtown
- Sidewalk, crosswalks, pedestrian signals, pedestrian flashing beacons





Laurel Park Elementary

- LAPP project EB-6019
- Restriped Laura Duncan Road to utilize the full pavement width
- Striped bike lane
- Installed flashing beacons at the crosswalk





Green Level High

- Sidewalk, side path, and crosswalk with flashing beacons installed
- Completes pedestrian connection from south of Roberts Road





Scotts Ridge Elementary

• LAPP project C-5604AA

 Completed pedestrian connections to school and Kelly Road Park

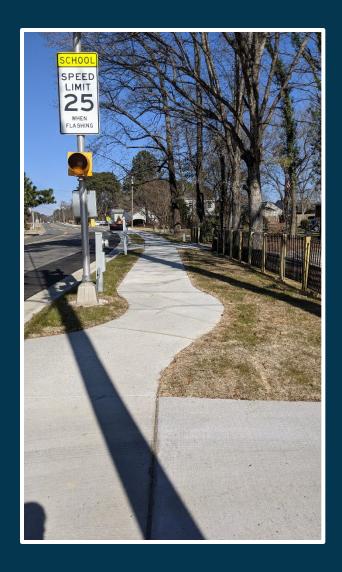




Apex Elementary

- Many students walk to West Haven Apartments
- Crossing guard at Sparta Lane
- No crossing guard at mid-block crosswalk

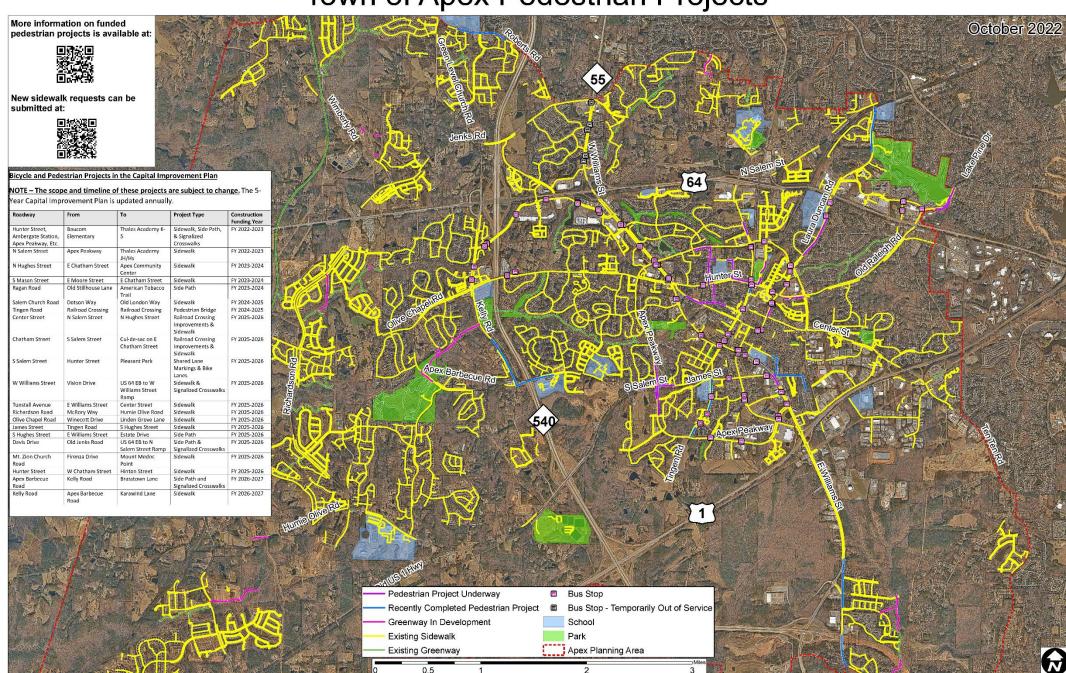






Project Efforts Underway

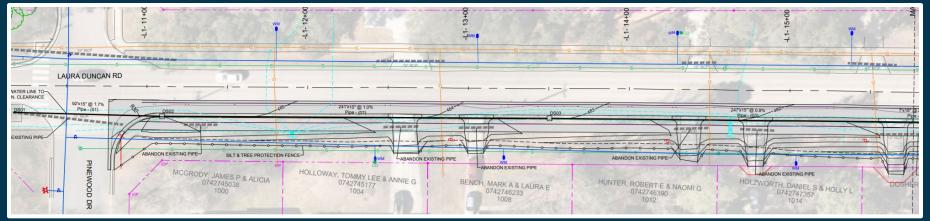
Town of Apex Pedestrian Projects



Apex High

- ROW acquisition in progress
- Multiple pedestrian crashes on Laura Duncan Road
- Complete sidewalk gap on east side
- Encourage crossing at marked crosswalks

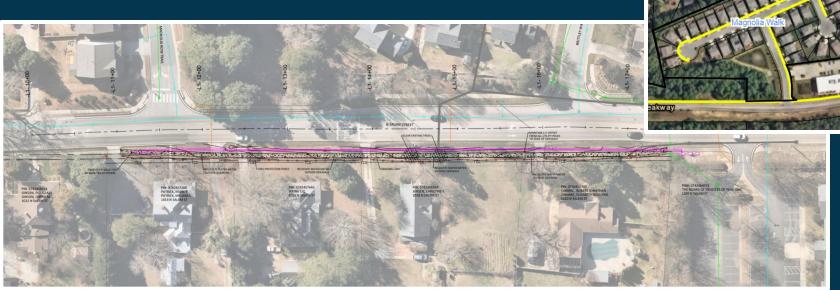


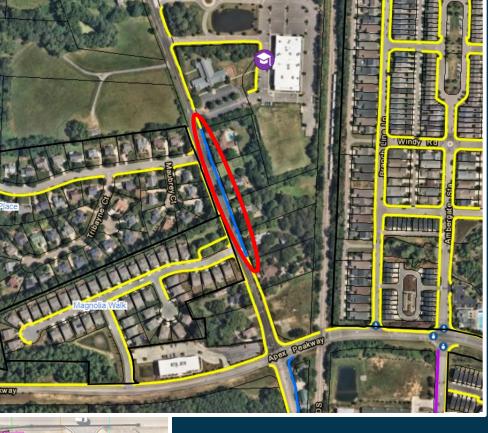




Thales Academy JH/HS

- Right-of-way acquisition underway
- Heavily travelled route



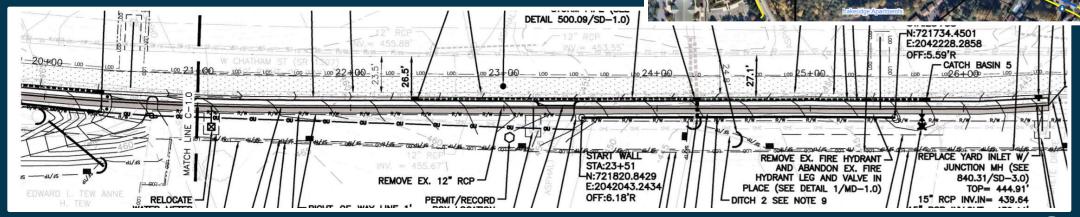




Baucom Elementary

- LAPP project EB-6046
- ROW acquisition in progress
- Combined with Chatham Street waterline replacement

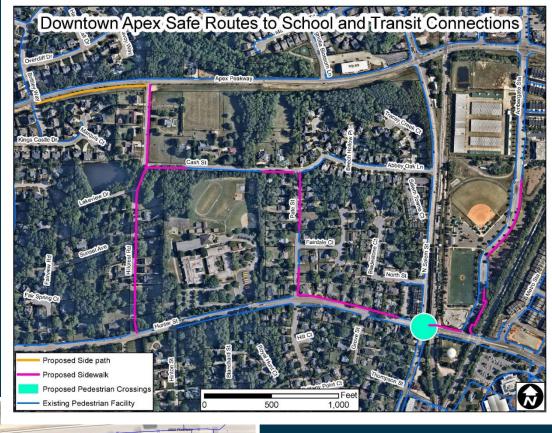






Baucom Elementary and Thales Academy K-5

- LAPP project BL-0047
- Design is under review
- Transit access and SRTS project







Baucom Elementary

- Preliminary design complete
- Completes direct connection from Lake Ridge Apartments to school
- Improves access to GoApex Route 1







Apex Friendship Schools

- Construction Drawings under review
- A portion of a larger connection to the school campus
- Remaining gap will be filled by developer







Greenways In Development

- Beaver Creek
- Middle Creek
- Apex West















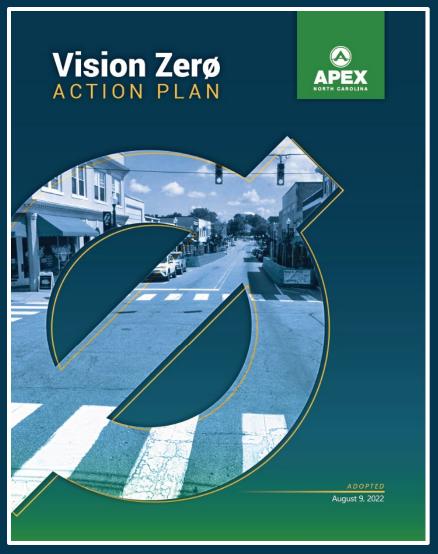


Vision Zero Action Plan

Plan Development & Implementation

- Interdepartmental Task Force:
 - Administration
 - Planning
 - Police
 - Public Works & Transportation
- Informed a SS4A grant application







Pedestrian & Bicycle Actionable Strategies

- Expand Pedestrian Needs Inventory to incorporate:
 - Latest ped/bike crash data
 - Safe routes to transit
- Coordinate with WCPSS to:
 - Evaluate ped/bike needs
 - Provide ped/bike routes
 - Address transportation safety concerns











Bikeshare

Bikeshare: Purpose & RFI

- Potential pilot program during downtown parking lot reconstruction
- Request for Information:
 - Roles & responsibilities
 - Costs
 - Bikes and bike station
 - Data reporting
 - Customer service
 - Marketing



Thank you!

Senior Long Range Planner Jenna Shouse jenna.shouse@apexnc.org (919) 372-7509

Questions & Answers



Break

Ten Minutes



THE GREAT TRAILS STATE COALITION







Image by Piedmont Legacy Trails



Image by NC State Parks



Image by NCDOT

WHO WE ARE

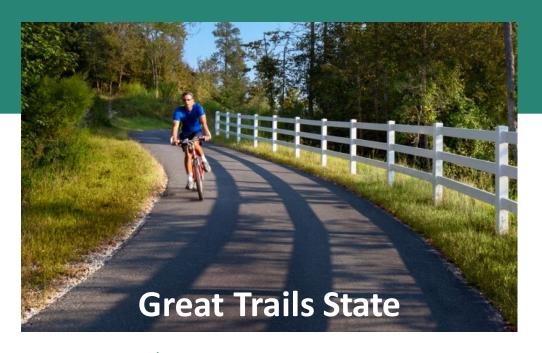
- A broad, diverse coalition committed to bringing the benefits of trails to all of North Carolina – nonprofits/local government/industry partners
- All trail types: Hike / Bike / Walk / Run / Paddle / Ride
- All 100 Counties
- State agency partners



NORTH CAROLINA IS THE GREAT TRAILS STATE



- √ Vision
- ✓ Community Demand
- √ State Leadership
- **✓** Commitment
- **✓** Funding



- ✓ Vision
- √ Community Demand
- State Leadership
- Commitment
- Funding



WHY TRAILS

YEAR OF THE TRAIL

- Free to users
- Improved health and well being
- Create positive economic impact, especially for rural communities
- Safety from vehicular traffic
- Protect valuable natural resources





THE BIG BOLD VISION

- Secure sustained state funding for trails
- Brand North Carolina as "The Great Trails State"

WHY

 Historically, NC has had very little direct state investment in trails and greenways











MUNICIPALITIES

29 NON PROFIT MEMBERS













PIEDMONT

LEGACY TRAILS

CONSERVING







Conservation Fund







DAN RIVER BASIN















AARP

FOOTHILLS

CONSERVANCY

OF NORTH CAROLINA





15 INDUSTRY PARTNERS

























Smart Moves

Consulting





LOCAL GOVERNMENT MEMBERS





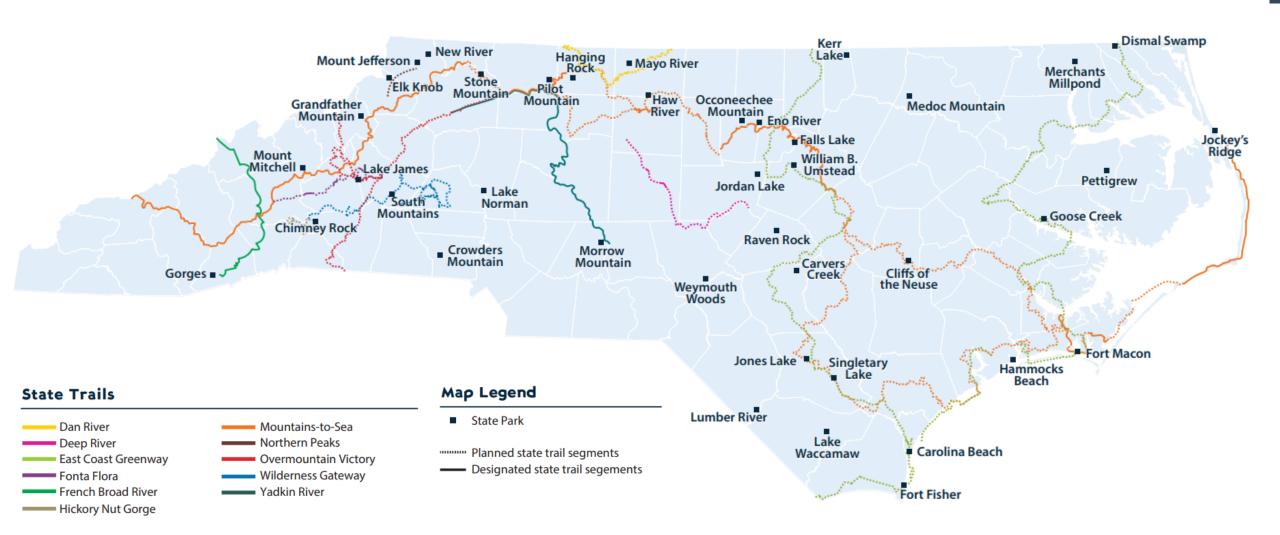


Goal: Build the Cities, Towns and Counties for Trails Working Group



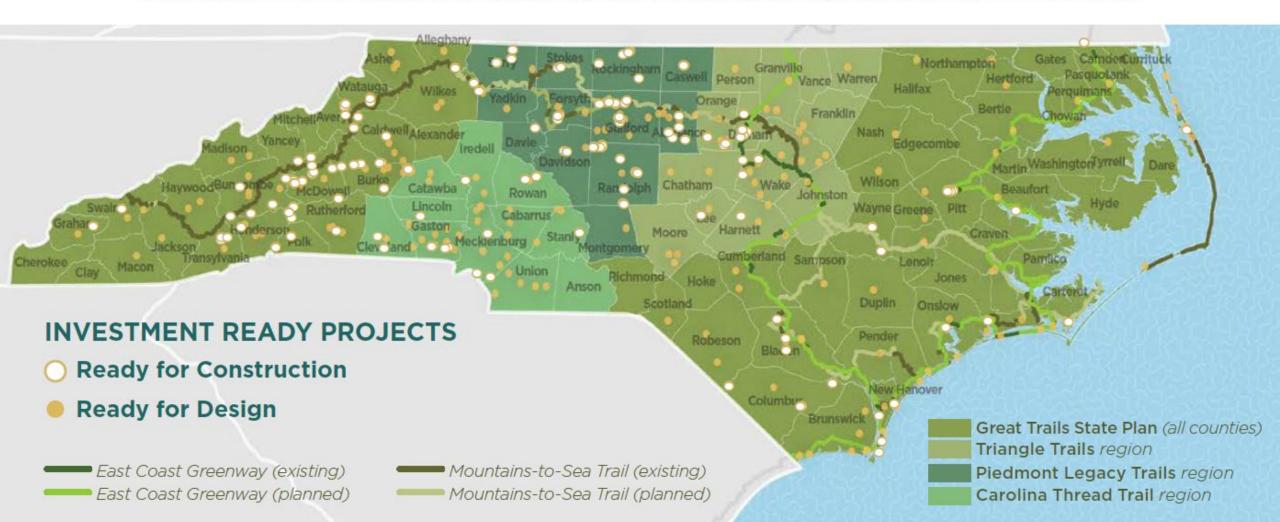
North Carolina State Trails





TINKE SEMENT READING

Communities have invested in planning and identified trail projects in all 100 counties.



2023 LONG SESSION

- Establish the Great Trails State Fund to fund all types of trails, paved and unpaved
 - \$50M
- Form a **Trails Caucus**
- Invite legislators to Year of the Trail events













YEAR OF THE TRAIL IS BIG NEWS FOR NORTH CAROLINA!

Highlights:

- Host events in all 100 counties
- Inspire people of all ages, abilities and backgrounds to try trails
- Create new trail users
- Boost outdoor recreation tourism across the state
- Promote safe and responsible use of trails





THE CAMPAIGN

- Events in all 100 counties
- Focus on diversity and inclusion
- · Website/Social media
- Local tool kits for communities with Year of the Trail assets
- Advertising outdoor, radio, print media
- Call for Artists program
- Merchandise
- PBS NC Partnership 30-minute documentary titled "Ten to Try" and 10 short trail profiles
- Speaking at conferences
- Measurement and reporting



ALL CITIES, TOWNS AND COUNTIES

October <u>20</u> or <u>25</u>

Virtual Info Session 12pm-1pm

TOOL KITS

1. Introductory Information

- YOTT Toolkit Fact Sheet
- YOTT Brochure
- Logos, Assets & Brand Usage Guide

2. All About Trails

• Trail Asset Analysis Worksheet

3. Trail User Guides

- Trail Day Planning Checklist
- Leave No Trace (Outdoor NC)

4. How to Host a YOTT Event

 Templates - Event Planning, Volunteer Recognition, Banners, Invitation/Save the Date Postcard, Event Flier, Event Evaluation & Reporting Form

5. Community Engagement Strategies

Communicating trails benefits and ideas and tools for advocating for trails in your community.

 Finished Social Media Assets - Monthly Content Calendars, Canva Templates, Trail Awareness Flier, Utility Bill Insert, YOTT Postcards, Editorial templates, Trail story ideas

6. Trail Support beyond 2023

 How to stay engaged with trails in NC and your community and how to become part of the Great Trails State Coalition.



| Income | | |
|-----------------------------|-----------|----------|
| income | CASH | IN-KIND |
| GOVERNMENT CONTRIBUTION | | |
| NC State Parks | \$350,000 | |
| Visit NC | \$100,000 | |
| NC DNCR | \$50,000 | |
| US Department of Commerce | \$40,000 | |
| SUBTOTAL | \$540,000 | |
| CORPORATE CONTRIBUTION | | |
| CORPORATE CONTRIBUTION | | |
| NC Electric Cooperatives | \$10,000 | \$15,000 |
| Duke Energy | \$5,000 | |
| Destination by Design | | \$50,000 |
| McAdams | | \$30,720 |
| SUBTOTAL | \$15,000 | |
| NON PROFIT CONTRIBUTION | | |
| NON-PROFIT CONTRIBUTION | | |
| Rails to Trails Conservancy | \$1,000 | |
| SECU Foundation | \$225,000 | |
| SUBTOTAL | \$226,000 | |
| TOTAL | \$781,000 | \$95,720 |

Expenses

| ADMINISTRATION | \$185,000 | | |
|--|-------------|--|--|
| MARKETING SERVICES | \$350,000 | | |
| Branding, Toolkits, social media management, marketing plan, PR services | | | |
| EVENTS | \$40,000 | | |
| NC Museum of Art, Regional Events | | | |
| PAID ADVERTISING | \$280,000 | | |
| Radio, Outdoor Advertising, Print | | | |
| OUTREACH & EDUCATION | \$300,000 | | |
| PBS NC Partnership, Artist Program, Conferences, printing, merchandise | | | |
| TOTAL | \$1,155,000 | | |
| NEED TO RAISE: | \$319,000 | | |



SPONSORS



SECU Foundation

PEOPLE HELPING PEOPLE®























ALL CITIES, TOWNS AND COUNTIES

October <u>20</u> or <u>25</u>

Virtual Info Session 12pm-1pm

Contact info@greattrailsnc.com



GET IN TOUCH

www.greattrailsnc.com

www.greattrailsstatecoalition.org

EMAIL ADDRESS

info@greattrailsnc.com









NCDOT Integrated Mobility Division





















NCDOT's Integrated Mobility Division (IMD) – **Updates**

Joe Furstenberg Statewide Planning & Programming Manager



October 14, 2022

IMD GOALS



Increase Access

Eliminate transportation barriers and ensure all North Carolinians have equal access to opportunities and services.



Enhance Quality of Life

Offer a convenient network of multimodal choices to enhance the quality of life for North Carolinians.



Ensure Safety

Ensure all road users can travel safely by building complete streets and proactively correcting areas susceptible to crashes involving vulnerable road users.









MISSION

Provide leadership for safe, affordable, and innovative multimodal transportation throughout North Carolina



Some Current Planning and Innovation Initiatives



Visionina Workshops

7 workshops across the state (including one in Raleigh on Sept. 23)

Prepares agencies to leverage IIJA funding and provides resources for visioning, prioritizing goals, and ongoing support for implementation



Multimodal **Planning** Grants

244 grants + \$7.5M January 2023 – next grant call

Develops comprehensive bicycle plans and pedestrian plans with an added transit component



Feasibility Studies

\$2.5M available November 2023 – grant call

Complements planning studies and supports local governments in the implementation of projects



150% ridership increase Feasibility Studies / Research / Grants

Assesses the feasibility of introducing microtransit to complement or replace fixed-route and demand response services throughout the state



MaaS **Feasibility** Study

Mobility as a Service (MaaS)

Seamlessly plan-book-pay for travel across all modes

Assesses the availability and feasibility of MaaS services for a statewide platform



Regional **Transit Plans**





Upper Coastal Plain + High Country + Land of Sky RPO Fall 2022 Pilot Projects

Promotes coordinated regional planning across agency boundaries, consolidating requirements for state and federal funding programs

Connected Autonomous Shuttle Supporting Innovation (CASSI)

Evolving to include more vehicle types and use cases including testing and integrating autonomous vehicles in fleets to provide safe, reliable, and useful transit service

19,900 Helmets + 256 Organizations January 2023 - next grant call

Distributes helmets to underprivileged children by government and non-government agencies since 2007

Complete Streets Implementation Update Implementation Challenges

Key challenges with implementation of the Policy include:

- Inconsistent implementation across NCDOT's 14 Divisions
- Lack of standards and need to streamline
- Policy gaps in key areas (e.g. maintenance, reducing impacts)
- Limited metrics, data, and tracking
- Need for enhanced training



Goals of New Implementation Guidance



Standardize and streamline process of identifying needs, selecting the appropriate facility type, and estimating added impacts to the project.



Better integrate Complete Streets evaluation into project development.



Provide flexibility and support discussions with local partners when determining need and choosing an appropriate facility type.



Create mechanisms to track project costs and evaluate project benefits.



Improve clarity for internal and external partners on implementation pathways.

Development Timeline



IMD initiated Complete Streets discussions with NCDOT leadership and Divisions.



Incorporated revisions and published new guidance and related resources.



Summer 2022

Formed workgroups to address challenges.



Winter 2022– 2023

Release updated guidance.

Unveiled draft project evaluation methodology and solicited public feedback.

Fall 2021

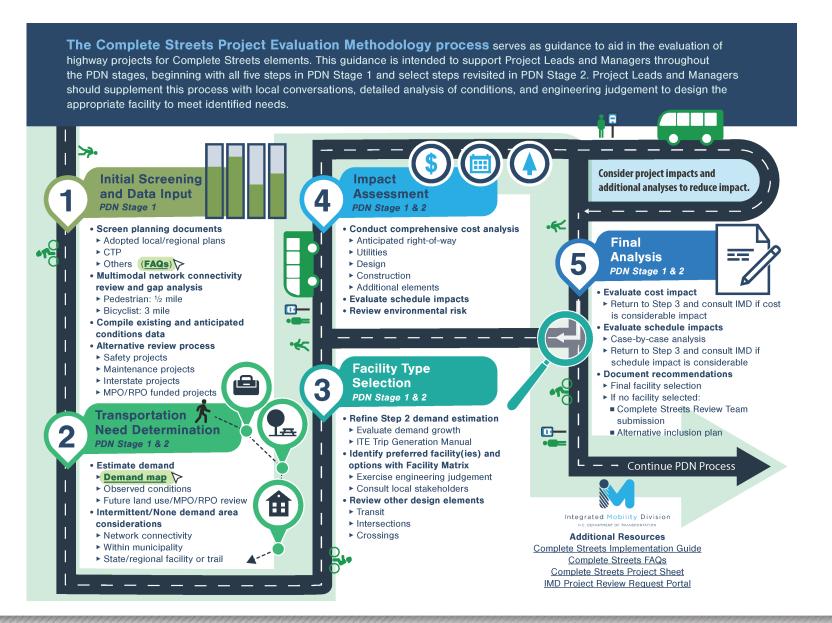
Virtual trainings on guidance to 500+.

Spring 2022

Support workgroups, integrate findings.

Fall 2022

Complete Streets Evaluation Methodology



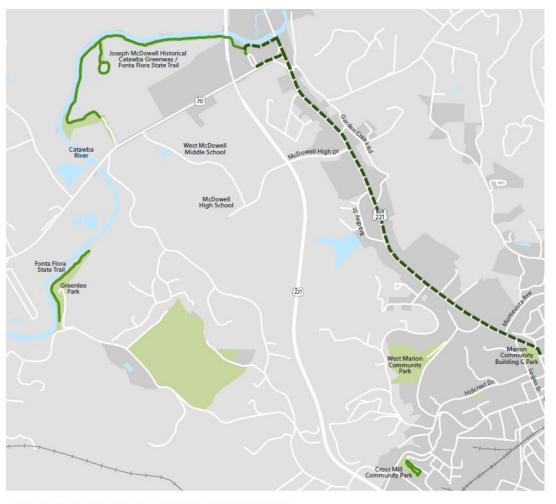
Complete Streets Implementation Update Ongoing Implementation Work

- Project Delivery ongoing workgroup for PDN updates, have made initial recommendations for updates reflected in most recent version of the PDN document.
- **CTP** ongoing collaboration with TPD partners, have met every two weeks since March and will be finalizing recommendations in coming weeks.

- **Maintenance** first workgroup held in July, several deliverables and more research is ongoing, second workgroup TBD for Fall '22.
- Cost first workgroup held in July, several deliverables and more research is ongoing, second workgroup tentatively scheduled for first week of September '22.

Feasibility Studies Grant Program

- Feasibility Studies template and pilot projects
 - City of Marion Sidepath
 - Middle Fork Greenway
- Feasibility Studies grant program
 - \$2M Paved Trails Feasibility Studies
 - \$0.5M Sidewalk/Sidepath Projects
 - Grant Call estimated in November 2022



CITY OF MARION N. MAIN ST SIDEPATH FEASIBILITY STUDY

Interim Design Safety Project (Tactical Urbanism)

- FHWA STIC project
- Interim design countermeasures to be evaluated protected intersections, curb extensions and median refuge islands
- Coordination with Highway Divisions and Municipalities (some preliminary locations in Durham and Raleigh)
- Materials and Installation
- Evaluation/Data Collection

CURB EXTENSION



Curb extensions reduce vehicle turning speeds, shorten crossing distances for pedestrians, and increase space for those waiting to cross.

MEDIAN REFUGE ISLAND



Median refuge islands reduce crossing distances and provide protected space in the center of the roadway for pedestrians and bicyclists.

PROTECTED INTERSECTION



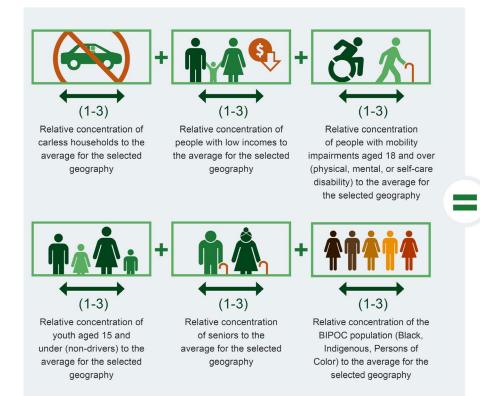
Protected intersections reduce vehicle turning speeds, improve sight lines, and provide people on bicycles advanced queuing to travel through an intersection.

154

Transportation Disadvantage Index (TDI) Tool

- Six indicators to generate a Block Group score based on variance from the geographic mean.
 - Vehicle ownership
 - Income
 - Disabilities
 - Age: Youth
 - Age: Seniors
 - BIPOC

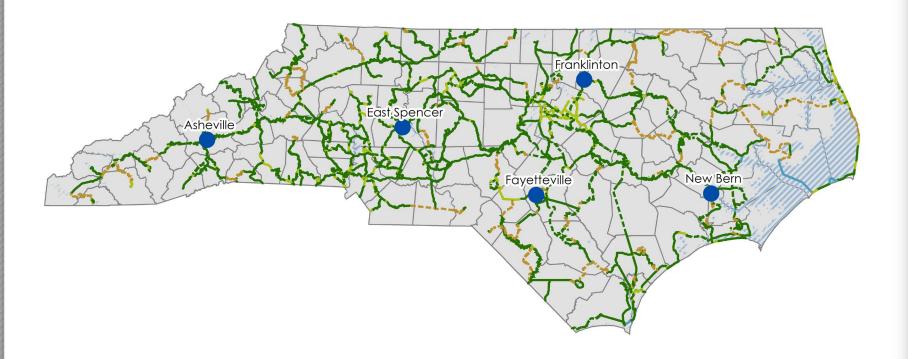
Higher score = greater level of transportation disadvantage.



TDI Score

<u>Link for Tool (TDI and Environmental Justice) – ESRI StoryMap</u>

Great Trails State Plan: Further Analysis



TRAIL SEGMENT PRIORITIZATION: EQUITY FOCUS (2022)

 List of GTS spine routes connecting to top tiers of NCDOT's Transportation Disadvantage Index (TDI)¹

> Draft List of 120 Trail Segments

 Narrow TDI list by overall connectivity and most functional segments (trails that could serve local communities independent of overall network)

> Draft List of 23 Trail Segments

- High-level analysis of overall constructibility based on right-of-way, local interest, and local/regional steps taken in support of segments to-date
- Broad geographic distribution across NC

5 Priority Trails for Equity Focus

Next Steps

- Establish local project contacts
- Locally driven project extents
- Develop Draft Project Cut-Sheets
- Finalize and Present Project Cutsheets

State Bike Routes Update

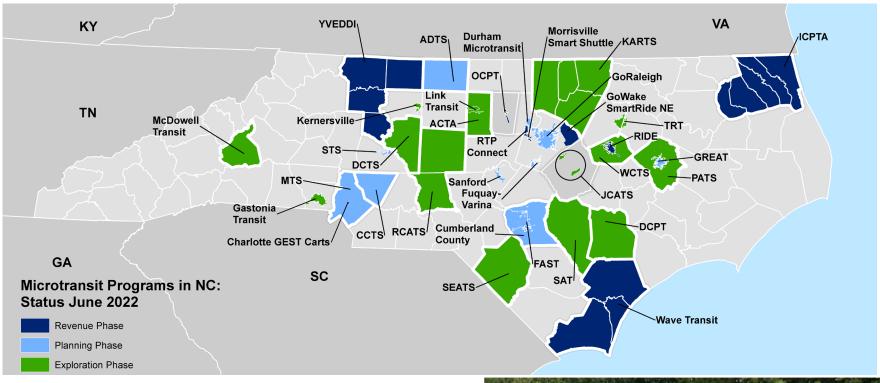


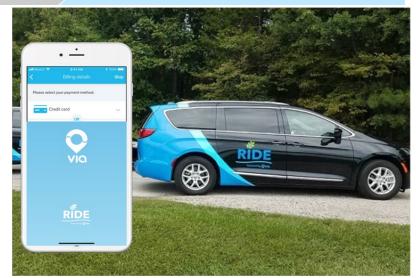
North Carolina's Expanding Use of Microtransit

IMD Feasibility Studies Grant Program expected to launch in early 2023

On-Demand Microtransit

- Similar to rideshare services like Uber or Lyft but subsidized and provided as a form of public transportation.
- 15-minute average wait time after requesting a ride.
- First pilot launched in September 2020 and has been highly successful, doubling transit ridership in Wilson, even amid the pandemic.
- NCDOT has worked with numerous communities on additional deployments, feasibility studies, and plans.

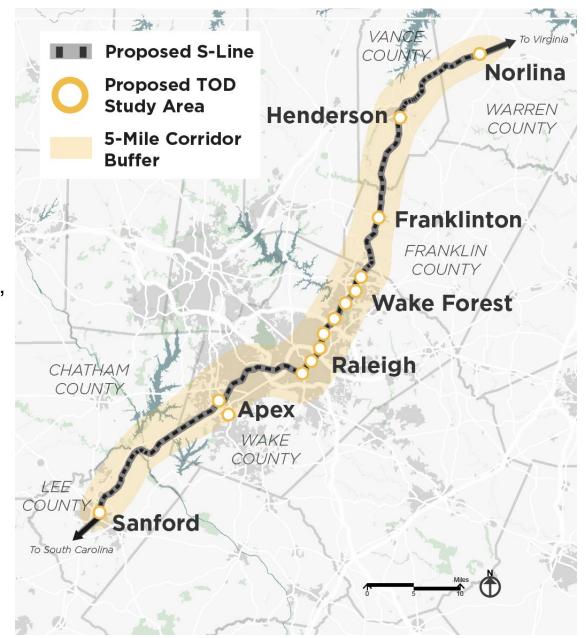




S-Line TOD Planning Study

- \$900,000 FTA Transit Oriented Development Planning Grant awarded in 2020
- 7 communities and NCDOT provided funding match
- Study includes TOD readiness assessment, urban design concept development, public input, and recommendations for each community.
- RAISE Grant Awarded in August Mobility Hub Planning
- Final round of community engagement to occur in early December







Completed Projects (2020-2021)

Deployment 1:

NCDOT Transportation Summit Raleigh Convention Center



Dates: Jan 8-9, 2020 Ridership: around 300 Length: 2,000 feet

Speed: 7-8 mph

Available for attendees

Deployment 2:

NCSU Centennial



Dates: Jan 21-Feb 25, 2020

Ridership: 260 Length: 0.8 mi Speed: 10 mph

Open to public

Deployment 3:

Wright Brothers National Memorial



Dates: Apr 20-Jul 16, 2021

Ridership: 3,335 Length: 1.2 mi Speed: 10-12 mph

Open to public



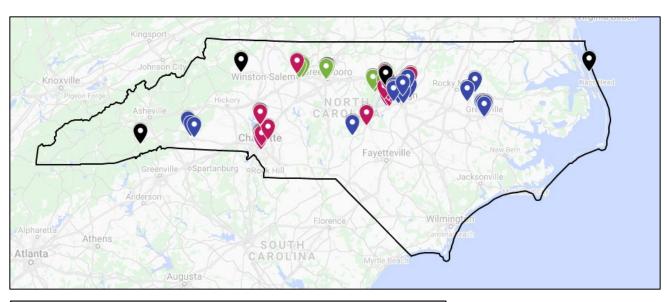


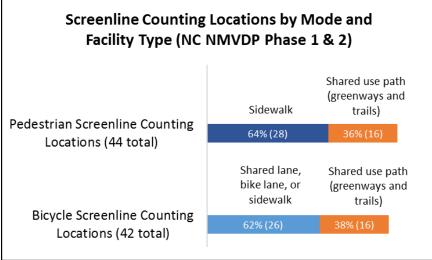




New vehicle types and use cases with a focus on safe, reliable, and useful transit service

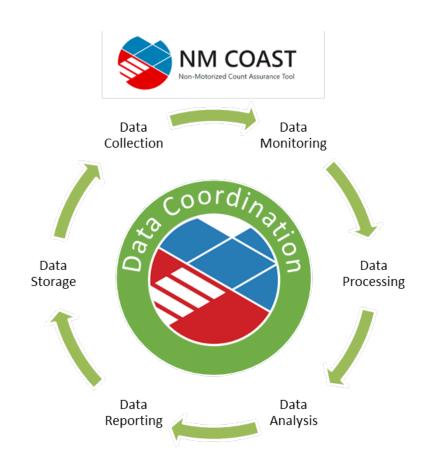
North Carolina Non-Motorized Volume Data Program (NC NMVDP)





Phase 1 & 2 Agencies

- Winston-Salem
- Greensboro
- DCHC MPO
- Durham
- Brevard
- North Wilkesboro
- Duck
- Charlotte
- Davidson
- Sanford
- CAMPO



Access the quarterly and annual data reports from the NC NMVDP

go.ncsu.edu/nmvdp

North Carolina Non-Motorized Volume Data Program (NC NMVDP)

What's next?



- 2G/3G Sunset & 4G Upgrades to Eco-Counters
- Partnership with NCDOT Transportation Mobility & Safety
- Investigation of Short-Duration Count (SDC) Support













Thank you!

Joe Furstenberg
Statewide Planning & Programming Manager
jcfurstenberg@ncdot.gov
919-707-2603

TRIANGLE TRAILS INITIATIVE

Triangle Trails Initiative

Fall 2022 Update



The Triangle Trails Initiative is a program of the East Coast Greenway Alliance. This work is funded by the AJ Fletcher Foundation, Research Triangle Park Foundation, VisitRaleigh, Martin Marietta, Affordable Communities, LLC, UNC Health, WakeMed and Duke Raleigh Hospital

















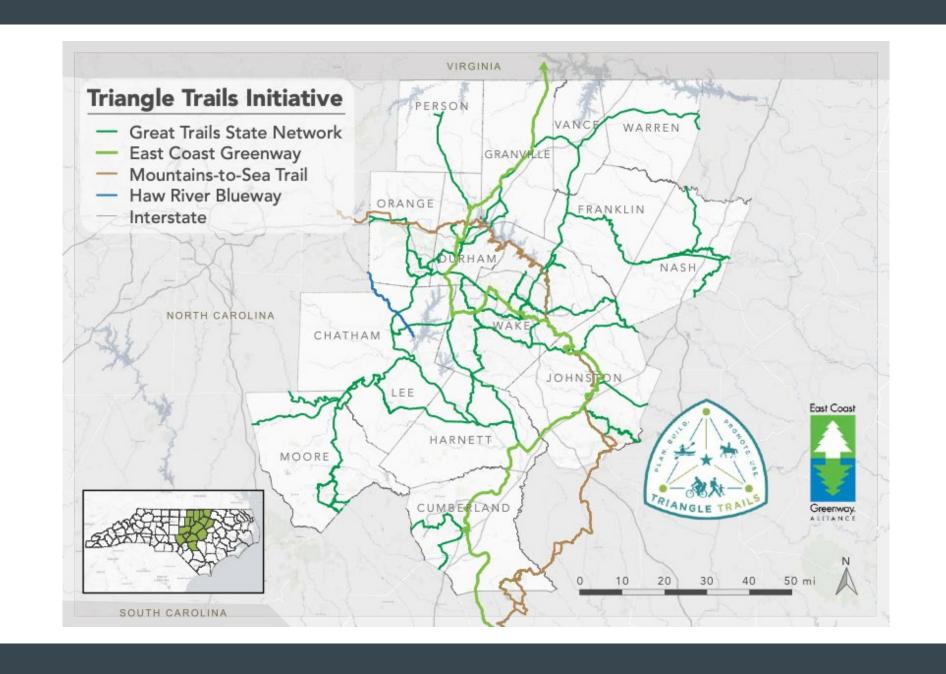




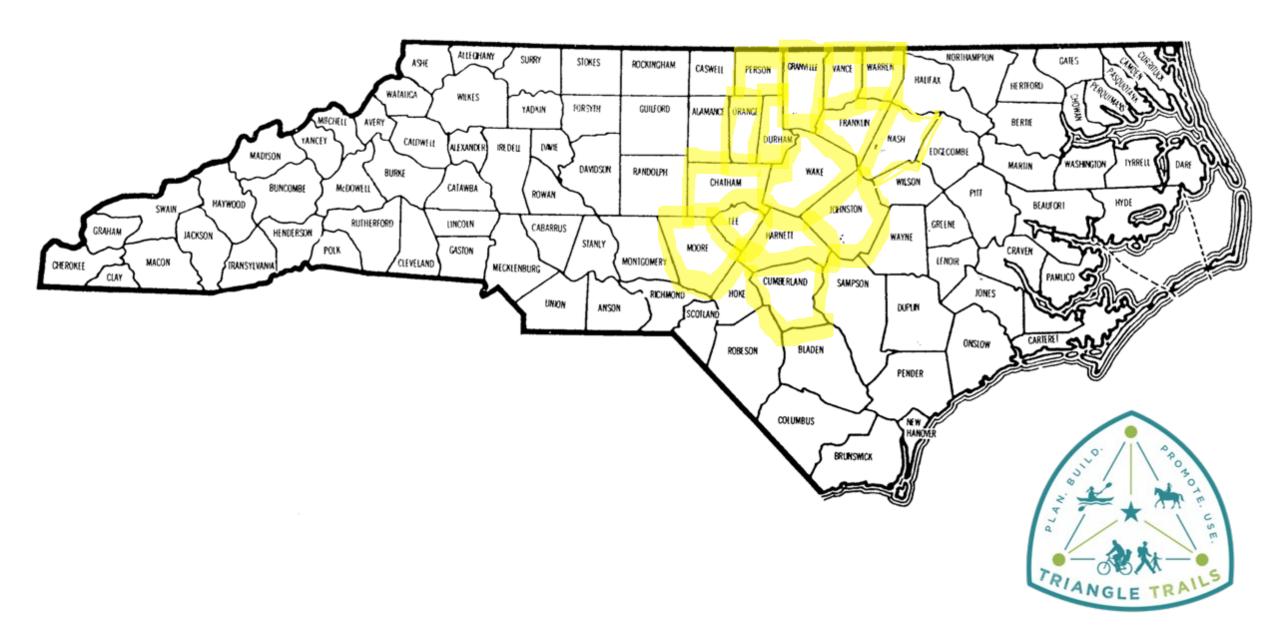
The Triangle Trails Initiative is a program of the East Coast Greenway Alliance. This work is funded by the AJ Fletcher Foundation, Research Triangle Park Foundation, VisitRaleigh, Martin Marietta, UNC Health, Wells Fargo, WakeMed & Mike Conlon, Affordable Communities, LLC







Triangle Trails Initiative



Andrew Meeker, NC Coordinator, ECGA



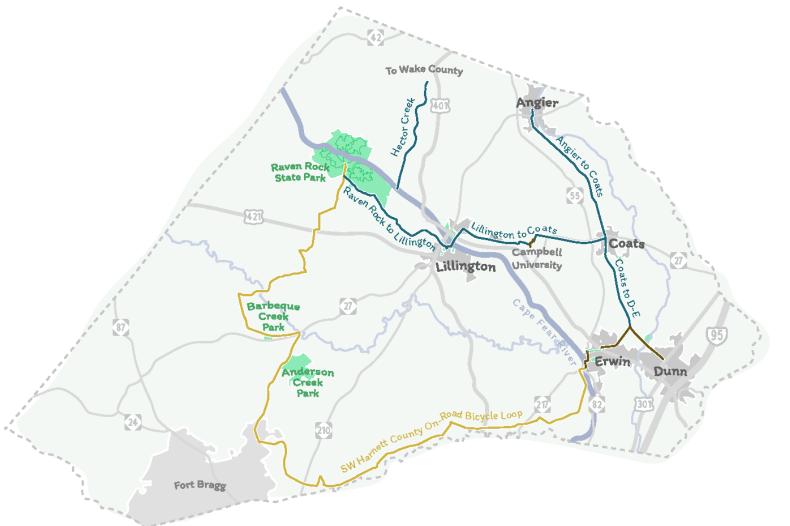




Technical Assistance Update



Harnett County Greenway Efforts





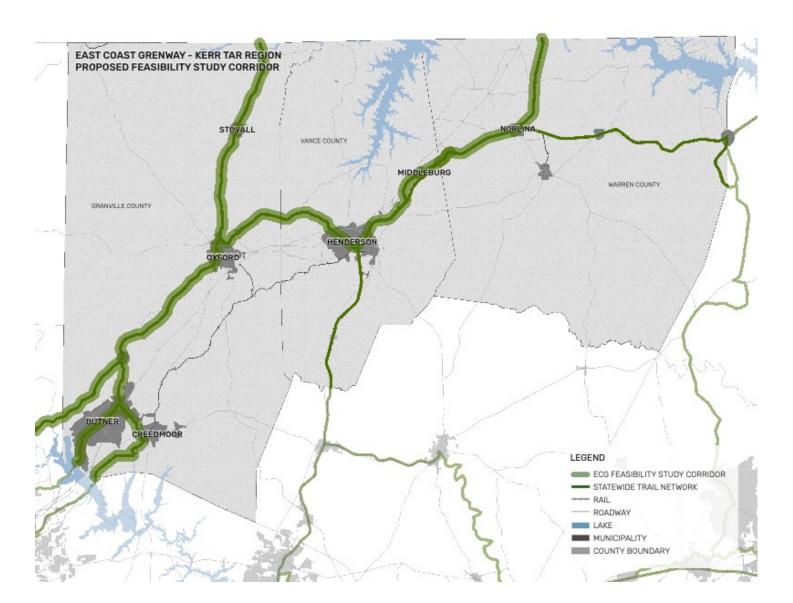
Raven Rock
State Park to
Lillington
Greenway





Town of Coats, N.C.

Letter of Support for Kerr-Tar COG - RAISE





RAISE GRANTS

Rebuilding American Infrastructure with Sustainability and Equity





Durham Beltline – RAISE Grant Recipient



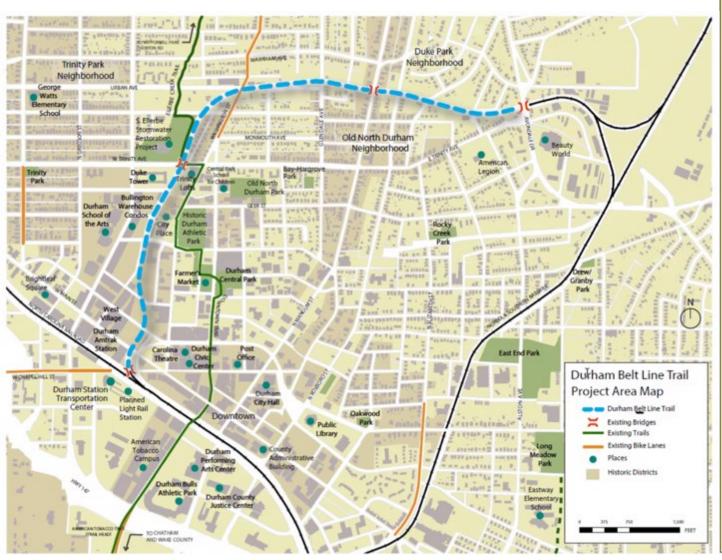






Three Rivers Rail-Trail Greenway Corridor

Three Rivers Rail-Trail Greenway Corridor



A RAILROAD RENAISSANCE

THE BIRTH, DECLINE AND NEW POSSIBILTIES FOR THE DURHAM-LYNCHBURG RAILROAD CORRIDOR

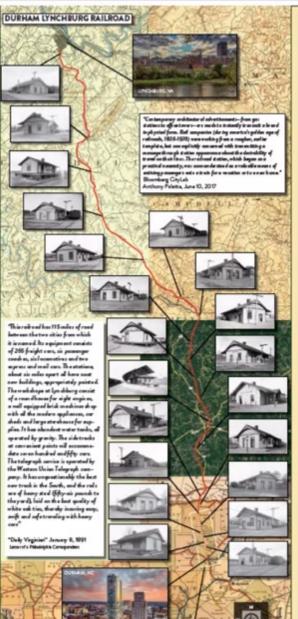
RISE OF DURHAM-LYNCHBURG LINI

sirilwar brought with it a flood of interest in the growth of red transport and transit in the American South (NC Path). The confederate status, documented by five language of war, ware in dire need of new materials for industrial growth, and the railroads, aported by a nationeride building bourn, were ripe and ready to supply there. During the period between 1871-1900, appresimetaly \$70,000 miles of track were laid (Cogos) scrow the nation, sparred on by federal support for the first transcentinental railway. In North Carolina during this period, trucks went down at a predigious para, duckling from 1500 to 3000 miles statemide during the ducade between 1885-1891 (ma). The lete rinateenth century was the time of King Takases in Durham, MC, and the earing wardwares and signrette factories struggled to keep up with demand. Southern Virginia was the regional spices ter of talance production at the time, but a raliable way to transport Virginia leaf to Durbum fectories did not exist. Out of this read in 1891 was born the Durham-lynchburg Railroad, a partnership between three existing rail companies (Mounta) to con-planeaute and construct the ITS miles of tracks and treatly stations that would link the tree cities. Once daily trains transport ad both freight and passengers on a mostly-rural route through second greeth forest and fermland detted by rural stations. An auspirious first-year in passenger and freight treffic (Manages) --followed by the clusing of 13 of the original stations within 30 months. Freight and radical passanger traffic continued for another thirty years, until the rise of the automobile and the Great Depression signalled an emissue turning point for merican refresch. (ma)

DUBHAM, LYNCHBURG DECLINE

North Carolina reached it's reilroad peak in 1920, when the state boarted over \$500 miles of tracks. (No.) branically, government regulations put in place in the early treentieth century to limit the power of railroad correportes at their peak actually discouraged the inneration that might have saved them. A a result, truck traffic began to areap into the market for smaller leads. World War II and the continued rise of the american extensible cased a marked decline in passenger rail traffic and a pressure and shift in the trajectory of american rail transit se tracks began to be torn up se railway companies folded. For the Durbam-lymbburg line, this decline began much earlier. Only two years after it's inception, the D-L trains only made passanger stops at the North Carolina sta-tions, Durham and Raugement. Freight traffic continued until 1990 when the Irus was purchased by Norfalk Southern Radreed Corporation (Lose). All rail traffic count outh of Rockers at that time, with the only remaining traffic courts fromlynabburg being the delivery of coal to the Hyon Lake Power Plant new

lasbara, NC. (traceat)



RAIL-TRAIL EVOLUTION

from full. Thousands of miles of tracks were being shandered everyy ser as six, our and truck transport began to puck rail to the emmanic fringer. The US government was faced with a so-buring reality—the less of a trumit note ork repre-senting bandwak of thousands of rolles of ganthe-graded rail corridors (Kapp). The response was an agreeire push towards "rulbanking" to promore for particity these historic naturals, once proud symbols of a nations visions for connective ty. The National Trails System Act of 1983 c parket a rail consider conservation are exent that began with inners call to trail assessment such as the Bines from is Path and the Bray-Sports Fail in Vacanzin. From that modest 250 mile beginnin the nateurk of reliteral systems some the U.S. has green to over 22,000 miles of trail comiden. breathing nor life into the nineteenth-century efforts to connect a growing nation.

GROWTH OF TRUMGLE RAIL-TRAILS

The Research Triangle area of Horth Corolina ha witnessed the development of hundreds of miles of ner bike-podestrian sorridon over the last forty years. One of the most notable rul- trail or version projects during that time is the American Tobs oco Trail (Couserang) beith in the featprint of the shandened Darbass and South Carolina Rail and (DSCR), Similar to the Dodon, Specklary Railroad, the DCSR initially prosper as a transit link bringing capplies and nor material to the bergeoning tobacco industry in Derham. Erentually extending 40 miles to Duncan, NC, (it never made it to Sooth Carolina) the DSCR brought sprice/tural goods and various raw materials to the growing city of Durham during it's rapid growth in the early 20th conturn. Like exect real rail corridors in the latter half of the 20th entury, the DCSR sleety fellout of use, and was mentually closed in 1982, minuring the demise of Arthum's once-ground tolerous industry. In 1987, the Durham City Council passed a resolution stating that all shands and rail corridors city-wide including the DSCR, would be incorporated into a city-wide greatury statter plan, (Opeleur) giving hirth to the American Tobacco Truit idea ince that time, over 22 miles of the DSCR have een converted into a contigue us trail spanning Durham, Wales and Chatham counties, giring to ngle residents a unique rail-truit experience and ornection to the ambitious East Coast Greenry. proposed 3000 mile trail naturals from Main

DUBNAM LYNCHBURG PENAJESANCE

he recent concurrences that the rity of Durha has approved the convention of the "Duke Spur", to a mile mil consider that more connected Dake Fumily takense factories to the Durbury Lynch bury Railroad, into the Darbare Baltine mil-trail (Op of Dutan) has given life to the possibility of converting the unused Durbaro-Lynchburg con-ridor between Durbaro and Rooboro into a new orty-mile mil-trail. This vacant you do meanders through the north-set Durham reighborhoods o Old North Derham and Braggtown before set oring rend Derham County. It creases the Ene Rive nd the Mountains to See Truit at Penny's Bend Nature Preserve before entering the Little River Notesfeed log our desert near the Treyburn Corporate Park, It passes near Historic Stagnille Huntation and the Hoston, Grove Nature Preserv before proving through the rural towns of Bahan and Rougement, wentually ending in Exchans, the current terminus of the function parties of the Durham-Lynchburg Railroad. Included below is a conceptual map of how a railtroil correction of this shandened line could add furty comic miles to the triangle's rail-truit national, connecting citizens to preserve, historical sites, rend landscapes and service agional transit history.



Trail Oriented Design

Oaks & **Spokes: Trail Oriented** Design



CHUCK FLINK

INITIATIVE



PRINCIPAL JACKIE TURNER CONSULTING



SPENCER FINCH NICK NEPTUNE





JONATHAN FREEZE

GREATER RALEIGH CVB



JACKIE TURNER



LISA SCHIFFBAUER

SENIOR SUPERVISOR RALEIGH PARKS + REC



Oaks & Spokes:Trail Oriented Design

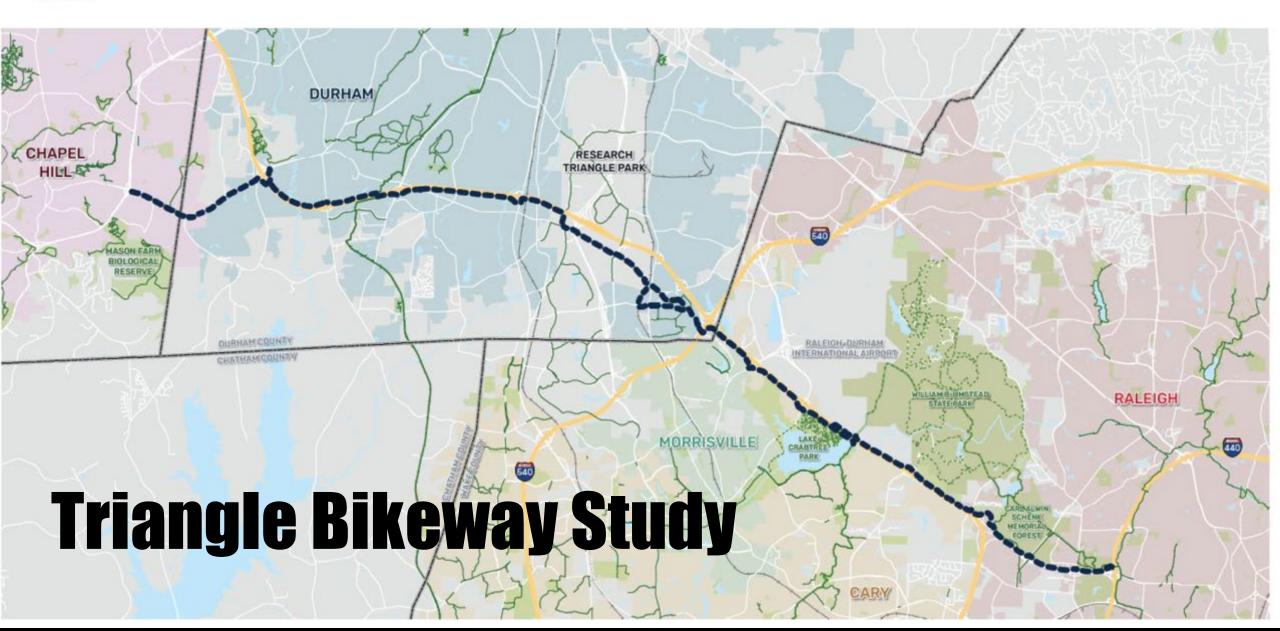




Preferred Alternative







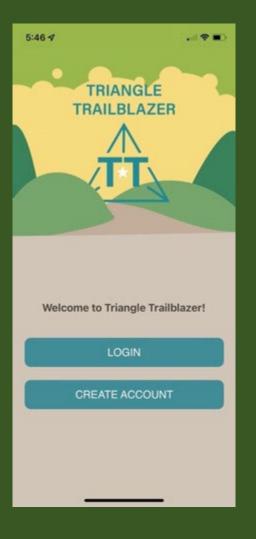
Triangle Trailblazer Program



Triangle Trailblazer Program

 Working with App developer John Ange Kernodle





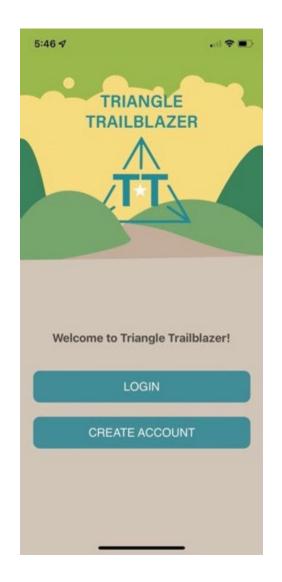


Buffalo Creek Greenway, Smithfield





Beta Testing

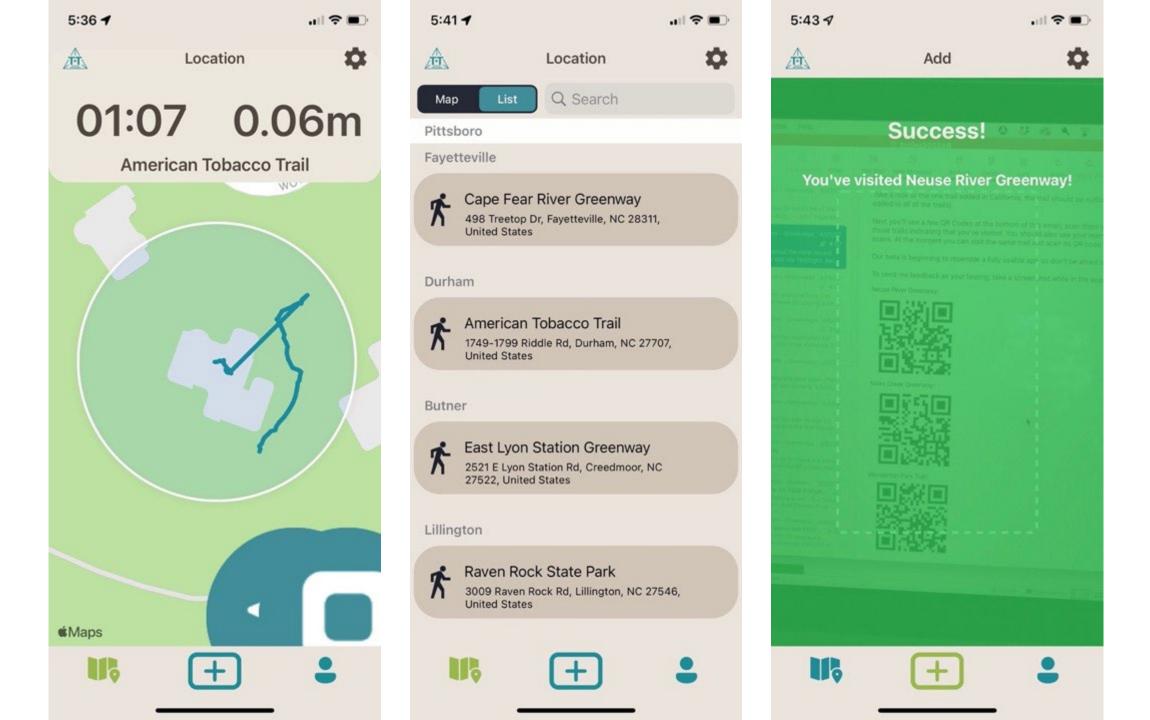


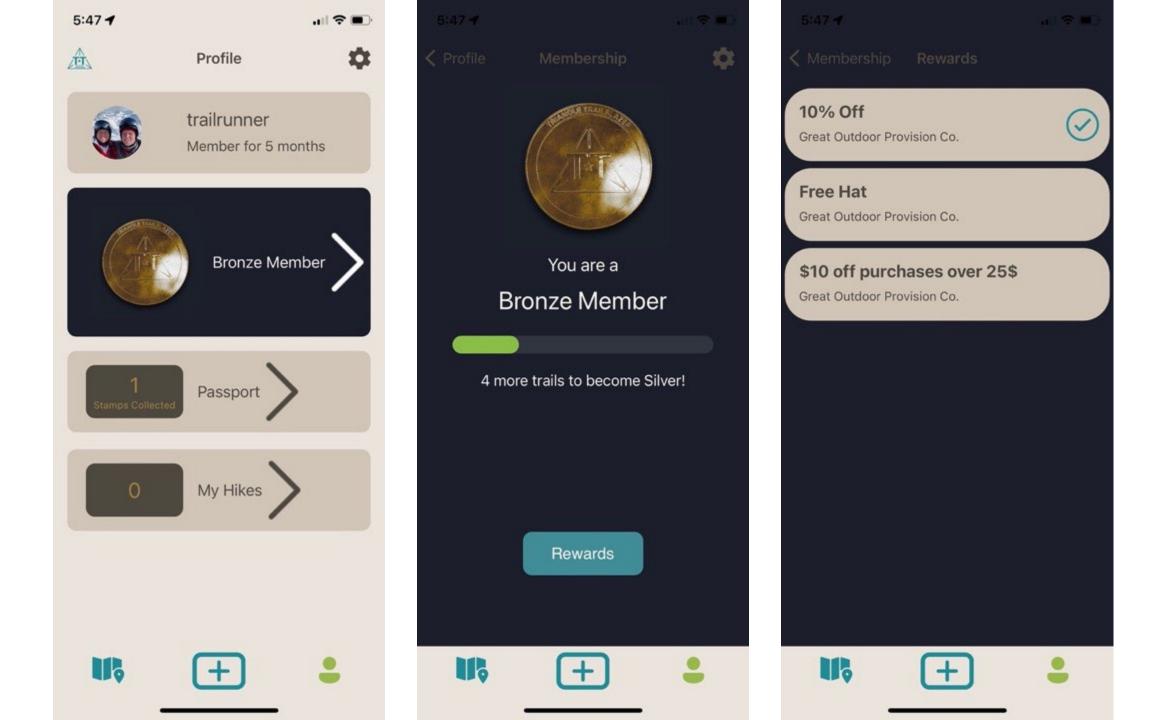


TTITrailBlazers By JohnAnge Kernodle for iOS.

View in TestFlight

To test this app, you must have TestFlight installed on your iOS device running 13.0 or later, Mac using macOS 12.0 or later, or Apple TV using tvOS 13.0 or later.











Triangle Trails Work Program



2022 Work Program

Operations

- Advisory Board Meetings Spring, Summer, Fall
- Technical Committee Meetings Fall
- County Commissioners/Managers Fall
- Update the TTI Regional Greenway Map

Outreach and Advocacy

- Work with County government partners to support their greenway efforts – technical assistance
- Partner with Great Trails State Coalition to advocate for funding



2022 Work Program

TRIANGLE TRAILS

- Branding and Promotion
 - Roll out the Triangle Trailblazer app Spring 2022
 - Roll out our new Web site communications

Events and Programs

- Work with TTI Partners to co-sponsor events and programs that promote the regional greenway system
- Partner with Great Trails State on hosting a 2023 statewide conference
- Partner with American Trails to host the international trails symposium 2024/2025

Summer Meeting of Triangle Trails Advisory Board

- Business Meeting + Social
- Location: Cantina 18,
 Raleigh, NC







Questions/Discussion























The Triangle Trails Initiative is a program of the East Coast Greenway Alliance. This work is funded by the AJ Fletcher Foundation, Research Triangle Park Foundation, VisitRaleigh, Martin Marietta, UNC Health, Wells Fargo, WakeMed & Mike Conlon, Affordable Communities

Triangle Safe Routes to Schools Update

OWake County

• Town of Garner

Durham

Safe Routes to School Wake County

Jennifer Delcourt, Safe Routes to School Coordinator



New website: www.wakegov.com/saferoutestoschool/

Triangle J Council of Governments (TJCOG) SRTS Program Highlights and Accomplishments





Multifaceted Outreach Efforts

- New program logo to strengthen messaging and outreach
- Quarterly Themes/Campaigns
- Quarterly Newsletter (>50 schools)
- Webpage/Social Media (~100,000 users)







Integrating Diversity and Equity

- Developed online interactive equity indicator <u>maps</u>
- Spanish versions of all outreach materials



Triangle J Council of Governments (TJCOG) SRTS Program Highlights and Accomplishments





> 100 kids engaged at Traffic Gardens:

- Vision Zero event in Apex June 2022 (Largest popup traffic garden in NC/possibly USA)
- Earth Day Festival in Durham May 2022





- Regional Art Contest "Sketch Your Way to School"
- Bike-ped safety social media messaging toolkit
- Walk & Bike to School events

Program Contact: Shuchi Gupta - sgupta@tjcog.org

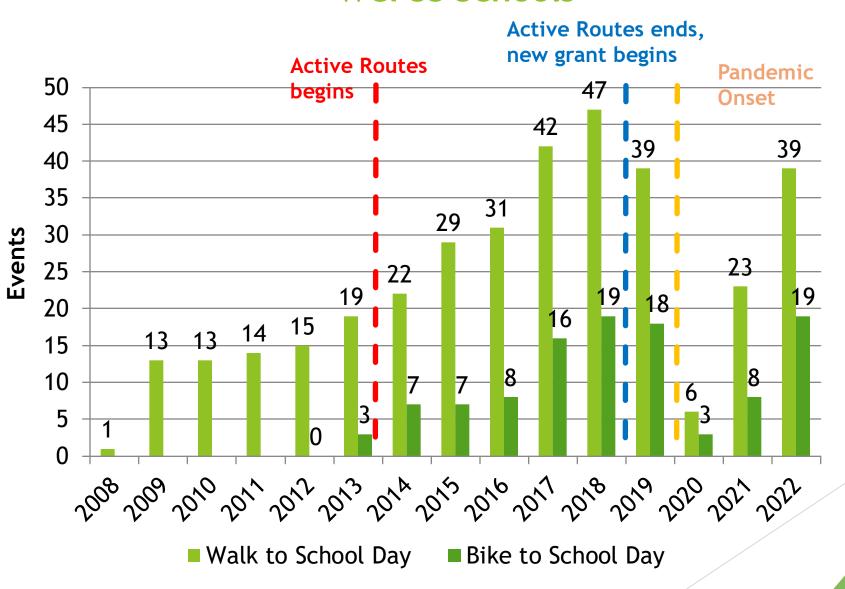




Walk Bike & Roll to School Day Events

- Celebrate active travel!
- Encourage physical activity
- Build community + relationships
- Raise awareness
- ► Teach safety
- Highlight opportunities + barriers
- ► Trial run for families

Walk & Bike to School Day Participation Among WCPSS Schools



Data Collection Project with WCPSS

MOA signed between WCPSS + CAMPO

Survey sent to every single WCPSS school in June 2022 with about 50% response rate

Next survey: November 2022

► Goals:

1. Understand where walking and rolling to school is happening

2. Identify barriers to walking and rolling to school

 Identify opportunities to increase walking and rolling to school, such as expanding no-transport zones





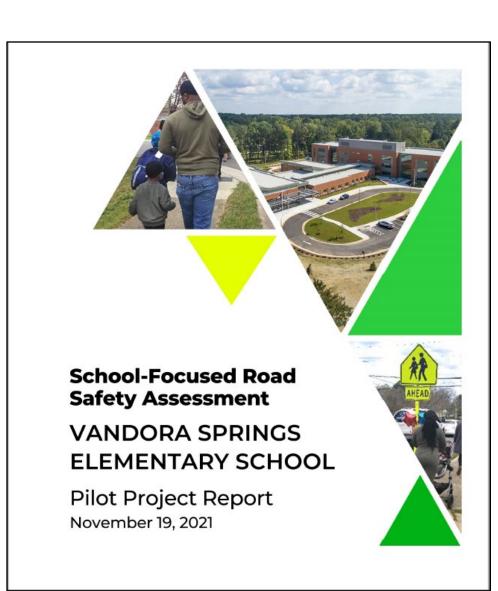
Pop-Up Traffic Gardens

- Different from bike rodeos
- Focus is on traffic safety skills
- Experiential learning through play

Local Expert: Mary-Jo Gellenbeck

Partnership with City of Raleigh to develop two kits for community partner to use.

Check out our video at www.wakegov.com/saferoutestoschool



School-Focused Road Safety Assessment

- Partners:
 - Vandora Springs Elementary School
 - 2. Town of Garner
 - 3. Safe Routes to School Wake County
 - 4. Capital Area
 Metropolitan Planning
 Organization
 - 5. NCDOT Traffic Safety Unit



Future & Funding

- Original Timeline : Aug 2019 Aug 2022
- No-Cost Extension : Aug 2022- Dec 2023
 - 1. DATA: Continue biannual data collection w/ WCPSS
 - 2. ENCOURAGEMENT:
 - a. Get School Awards Program off the ground
 - b. Continue support for WBTSD events (O&S)
 - 3. EDUCATION:
 - a. Continue support for traffic gardens
 - b. Develop bike trailer program
 - c. Implement All Kids Bike in pilot schools
 - 4. ENFORCEMENT Develop training for LEOs
 - 5. ENVIRONMENT Continue work with WCPSS & RSAs

Town of Garner Updates

2022 Triangle Bicycle & Pedestrian Workshop





Vandora Springs ES RSA

- Data Review
- Field Visit
- Documentation
- Report to support LAPP application







Vandora Springs ES RSA

Takeaways

RSA process is an on-going effort

Cooperation across relevant agencies is key





Pedestrian Improvements

- Town Funded
 - Ongoing
 - Vandora Springs Rd sidewalk (Tiffany Circle to Timber Dr)
 - Lake Dr
 - Planned through bond funds
 - Aversboro Road (YMCA to Summers Walk Subdivision)
 - Bryan Road (Ackerman Rd to Bryan Rd Elementary)
 - Garner Rd (Vandora West to Weston Rd)
- NCDOT Funded
 - US 401 superstreet Betterment Agreement





Bicycle Improvements

Bicycle lanes as part of NCDOT resurfacing contracts

Spring Dr

Thompson Rd



Pedestrian Plan

NCDOT Planning Grant Initiative

Plan completion ~ Feb 2023





Thanks!

Gaby Lawlor
Senior Transportation Planner
glawlor@garnernc.gov



SAFE ROUTES TO SCHOOL DURHAM NC





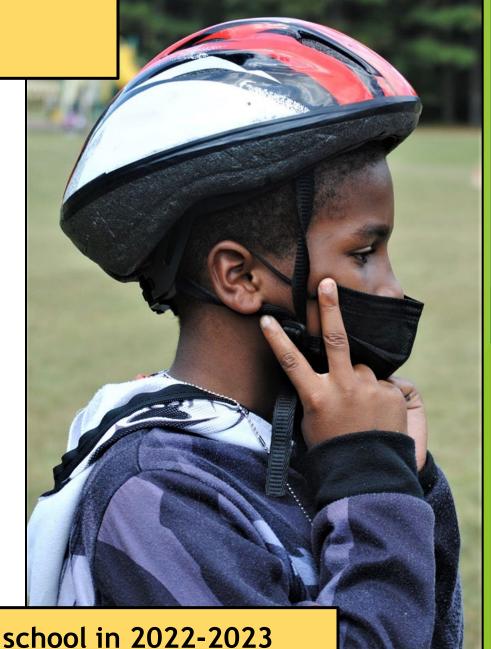






BIKE SAFETY CLASSES





Bike Safety Classes in 12 DPS Elementary school in 2022-2023

BIKE SAFETY CLASSES





Family and Community Day Celebration of Bike Safety Class



New bike fleet and new Strider Bikes program!







Bike, Walk & Roll to school events





Students deserve safe places to walk and bike, starting with the trip to school

I I

Bike, Walk & Roll to school events





October 12th 2022 - 17 DPS elementaries to participate



Bike, Walk & Roll to school events





October 12th 2022 - 17 DPS elementaries to participate



KEYNOTE SPEAKER

Simone Kellum-Hamlett - Black Girls Do Bike: Raleigh - Durham

October 14, 2022 Triangle Bike & Pedestrian Workshop

Simone D. Hamlett

Personal

- Wife
- Mother
- Lives in Durham (25 yrs.)
- Breast Cancer Survivor
- Loves to ride bikes, outdoor activities, teaching, traveling, and giving back

Professional

- Sr. Program Mgr. @ SAS
- Project Management Professional
- Certified Scrum Master
- League of American Bicyclists – Cycling Instructor

BCDB ORTHON MALEIGH DURHAN

Co-Shero
Black Girls Do Bike: Raleigh - Durham



Values

- Curious
- Creative
- Courteous and Kind
- Collaborative

Education





Executive MBA

Monica Garrison Black Girls Do Bike Founder



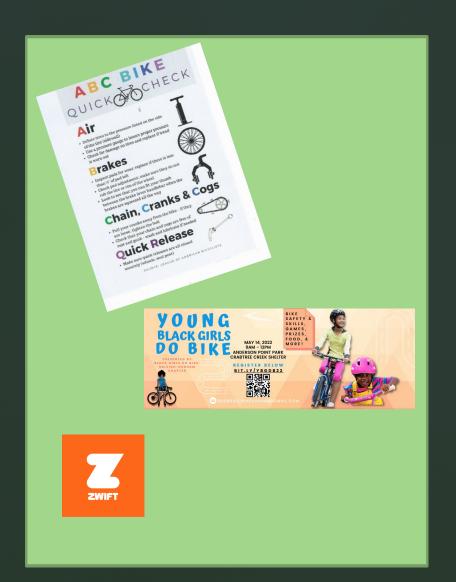
2022 Black Girls Do Bike National Meet-up in Pittsburgh, Pa

Black Girls Do Bike History

- Monica conceived the idea in the spring/summer of 2013 riding through the streets of Pittsburgh and wondered, where were the black female cyclists. It really was a question…"Do black girls bike?"
- Today there are 108 chapters with an estimated 25,000 members. Each chapter has its own private Facebook group, led by Shero/s
- We champion efforts to introduce the joy of cycling to all women, but especially, women and girls of color.
- The Raleigh Durham Chapter has over 1200 members, and we are growing.

Practices of Engagement

- Facebook Welcome Messages
- Bike Maintenance Workshops
- Themed Chapter Rides
- Annual & Special Events
- Off Season Engagement
 - Monday Matters Health & Wellness
 - Zwift Rides



Biking & Walking Fun Facts

- 1. What are the most common forms of physical activity? Biking & Walking
- 2. How much money in annual health care costs are attributed to inadequate levels of physical activity? \$117 Billion
- 3. In the state of North Carolina, what % of people
 - Bike to work

.2%

Walk to work

1.7%

Take public transit

1%

4. What % of motor vehicle trips are 3 miles or less?

45%



Disparities

- Trail quality is based on demographic of community
- Lack or limited trail resources (bathroom and water)
- Lack of biking and walking infrastructure in underserved neighborhoods
- Lack of representation in planning decisions and investments
- Laws don't seem to change or action taken unless something tragic happens



What To Do?

Adopt the Five E Framework:

- Equity & Accessibility
- Engineering
- Education
- Encouragement
- Evaluation & Planning





Planners & City Officials

| | Do's |
|------------------------|---|
| Equity & Accessibility | Acknowledge that there are historically underserved and underrepresented populations Promote inclusive experiences for all groups Commit to improving and increasing access and mobility options for everyone, including, and in particular, for people with disabilities Hire diverse qualified candidates into Planner roles. Hire interns |
| Engineering | Avoid infrastructure projects / enhancements during prime cycling and running season. Engage with the community to learn biking and walking experiences. Get proximate Ensure adequate bike parking and ramps Imagine a traffic free cityArchitect for the future with biking and walking as primary modes of transport |
| Education | Enhance/Revise Drivers Education programs to increase motorists awareness of the rights of cyclists and pedestrians Invest in and promote Smart Cycling classes and bicycle skills building Incorporate bike safety in every elementary/middle school PE curriculum |
| Encouragement | Promote walking challenges Promote Bike Month, Create weekly events, Car free bike events Promote, adopt, and incentivize Bike to Work programs |
| Evaluation & Planning | Partner with Bike & Pedestrian advocacy groups to review data and influence planning and legislation. |

League of American Bicyclists – Essential Elements of a Bicycle Friendly America https://bikeleague.org/5-Es

Thank You

A&Q



BIKEWALKNC





BikeWalkNC.org

Terry Lansdell, Executive Director



Contributory Versus Comparative Negligence

3. 从至今的人3. 从至今的人3. 从至

North Carolina is one of the very few states where the principle of contributory negligence applies in personal injury claims. Unlike comparative negligence (the standard used by a majority of states), the contributory negligence rule bars the victims of accidents and serious injuries from recovering damages if they have any degree of responsibility.



相談外景的相談外景的相談外景的相談外景的

Mignon Elkes' daughter was just a mile from home when she was struck and killed by a car while walking along the side of the road.

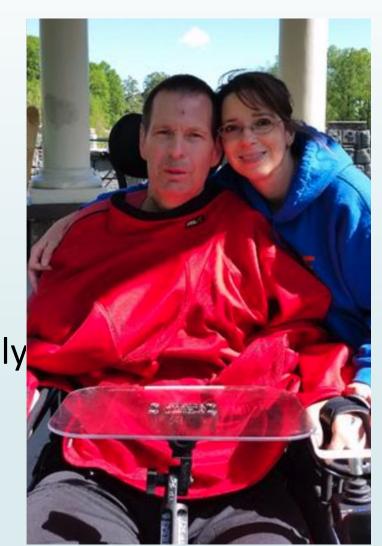
She was walking on the white line on the road in the direction of traffic. There is no sidewalk on Sharpe Road.





ABAE BABAE BABAE BABAE

"That's just insane that that's the kind of life I have to live due to someone else's negligence," he said. An outdated North Carolina law greatly restricted Kelly's rights to recover money to help pay for his recovery." Many thanks to Stanly News and Press for sharing Ironman triathlete Kelly Caudle's story. Victims like Kelly deserve fair treatment under North Carolina law.



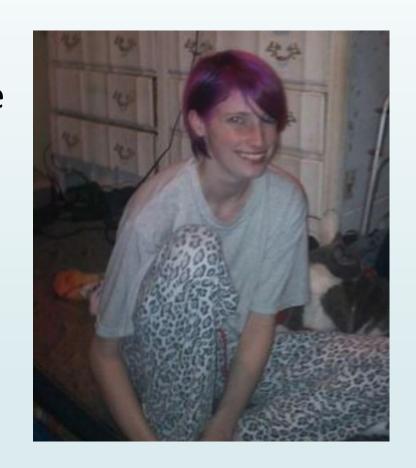


The driver admitted being distracted by her baby in the backseat when she ran over Heather in the crosswalk.

But, it didn't matter.

A 150-year-old state law meant Heather couldn't even hold the driver accountable despite spending a month in a wheelchair and needing hip surgery.

Accident victims shouldn't be further victimized by this out-dated law.





ABAE SABAESABAESABAES

Ann Groninger Explains Contributory Negligence Importance in 4 Minutes





2021 The Victims Fair Treatment Act

当次军务人为决军务人为决军令人为

GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2021

S SENATE BILL 477

Short Title: Victims' Fair Treatment Act. (Public)

Sponsors: Senators Britt, Perry, and Galey (Primary Sponsors).

Referred to: Rules and Operations of the Senate

April 5, 2021

A BILL TO BE ENTITLED
AN ACT TO ENACT THE VICTIMS' FAIR TREATMENT ACT.
The General Assembly of North Carolina enacts:

SECTION 1. The General Statutes are amended by adding a new Chapter to read:

"Chapter 1H."
"Contributory Fault.



Seems simple and logical...

GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2021 SENATE BILL 477 Short Title: Victims' Fair Treatment Act. (Public) Senators Britt, Perry, and Galey (Primary Sponsors). Referred to: Rules and Operations of the Senate

April 5, 2021 A BILL TO BE ENTITL

The General Assembly of North Carolina enacts: SECTION 1. The General Statutes are amend

"§ 1H-1. Short title.

This Chapter may be cited as the Victims' Fair Treatm "& 1H-5. Definitions. The following definitions apply in this Chapter:

AN ACT TO ENACT THE VICTIMS' FAIR TREATMEN

Contributory fault. - Contributory unreasonable failure to avoid or mitigate the risk is expressly assumed in a le

Person. - An individual, corporation, bu limited liability company, association, government, or governmental subdivisi other legal or commercial entity.

Released person. - A person that would for personal injury or harm to property from liability under G.S. 1H-35 or G.S. Responsibility. - With respect to a clair

harm to property, the legal consequence for liability or a defense in whole or in p

"§ 1H-10. Effect of contributory fault.

(a) Except as otherwise provided in subsection (b) damages for personal injury or harm to property based on a which the claimant may be subject to a defense in whole of any contributory fault chargeable to the claimant dimir otherwise would be entitled to recover as compensatory d percentage of responsibility assigned to the claimant pursua

If the claimant's contributory fault is greater that other parties and released persons whose responsibility is injury to or harm to property of the claimant, the claimant



General Assembly Of North Carolina

subsection (b) of this section.

8 1H-15. Finding damages; attribution of resp.

 Stating the amount of damages t any contributory fault were disre

> parties and released persons a released person that caused the i Regarding whether any of the p with an intent to cause personal

The court shall determine the extent to is based on the act or omission of another party, w party for the purpose of submitting interrogatories to

findings pursuant to G.S. 1H-15, the court shall de of responsibility found, the monetary amount of an of the several share for which each party found liab

After the court has made its determinati a claimant, no later than 90 days after the entry of it to determine whether all or part of the amount of th not be reasonably collectible and request reallocati the evidence determines that the party's share will make findings reallocating the uncollectible share claimant, and any released person. Reallocation mu and released person's respective percentage of resp of responsibility attributed to the parties, including including the percentage being reallocated.

(c) In a jury trial, the court shall instruct the to interrogatories, made pursuant to G.S. 1H-15, or

 In an action to recover damages for pers responsibility of more than one party or a release answer special interrogatories or, if there is no jury

Stating, as to each claim, the pe

Regarding any other issue of necessary to make a determination

In determining percentages of responsi The nature of the conduct of eac

The extent of the causal relat

(a) of this section.

8 1H-20. Determining damage award; realloca (a) After the trier of fact has received ans

has been reallocated must be distributed to each of the parties to whom the reallocation was made in the same proportion as the original reallocation. Reallocation does not make a released person liable for any reallocated share of

responsibility unless the release or other agreement so provides. (e) If a motion for reallocation is made, any party may conduct discovery regarding any

"§ 1H-25. Entering and modifying judgment.

General Assembly Of North Carolina

(a) After determining an award of damages to a claimant and the amount of the several share, including any reallocated share, for which each party found liable is responsible, the court shall enter judgment severally against each party adjudged liable, except in the following

> If two or more parties adjudged liable acted in concert or v cause personal injury to, or harm to property of, the claiman enter judgment jointly and severally against the parties for th If a party is adjudged liable for failing to prevent anot intentionally causing personal injury to, or harm to property the court shall enter judgment jointly and severally against the combined shares of responsibility

If a party is adjudged liable for the act or omission of ano G.S. 1H-15(c), the court shall enter judgment jointly and seve parties for their joint share.

If a statute of this State, other than this Chapter, so require enter judgment jointly and severally or otherwise conform the

If more than one defendant is found responsible for indivisib any defendant to whom more than fifty percent (50% responsibility of all parties for such indivisible damages is at jointly and severally liable for the total amount of such indiv

If a court grants a motion for reallocation pursuant to G.S. 1H-20 a entered, the court shall modify the judgment to declare the rights and obligation the reallocation, including any rights and obligations with regard to subrogat

"§ 1H-30. Right of contribution and indemnity; third-party action,

Except as otherwise provided in subsection (b) of this section, a pa and severally liable with one or more other parties under this Chapter has a righ from another party jointly liable for any amount the party pays in excess of the for which the party is responsible. A party against which contribution is sought more than the monetary amount of the party's several share of responsibility dete

A party that is adjudged liable for the act or omission of ano G.S. 1H-25(a)(3) has a right of indemnification from the other party.

(c) A party that is subject to liability for injury to, or harm to proper under this Chapter has a right:

To join a person that is also subject to liability to the claims of the same injury or harm if the claimant has not sued the pe To seek contribution or indemnity, whichever is appropriat person whose liability is not determined in the proceeding in is adjudged liable if the other person is responsible for al claimant's injury or harm.

A claim for contribution or indemnity may be asserted in the origin

Senate Bill 477-First Edition

Senate Bill 477-First Edition

(c) A party whose liability is reallocated remains liable to a claimant for any additional share of responsibility allocated to the claimant. A party that discharges an additional share of responsibility allocated to it pursuant to subsection (b) of this section has a right of reimbursement from the party from which the share was reallocated. Upon motion, the court in the judgment entered under G.S. 1H-25 shall declare the rights and obligations resulting from the reallocation, including any rights and obligations with regard to subrogation or a secured position. If any party to whom reallocation has been made holds a secured position with regard to the share reallocated, each party to whom reallocation has been made has a proportionate share in the secured position. Any amount recovered under this subsection from a party whose liability General Assembly Of North Carolina

"§ 1H-35. Effect of release.

A release, covenant not to sue, covenant not to agreement by a claimant and person subject to liability dischar claimant to the extent provided in the agreement and from lial person subject to liability to the claimant for the same injury discharge any other person subject to liability upon the sam provides.

(b) The amount of the claim of the releasing person us against other persons jointly and severally liable for the sar released person would have been liable is reduced by the perc to the released person pursuant to G.S. 1H-15.

(c) A release, covenant not to sue, covenant not to agreement extinguishes any claim for contribution or indemni have had against another person that would have been join

*§ 1H-37. Judicial determination as to amount reasonably

Any party to a proposed settlement of a claim in an apply to the court for a determination of whether or not the payment of all funds that reasonably could be collected from

proposed settlement is of a claim for which there is a pending be made to the court in which the action is pending. If the pro which there is no pending civil action, the application shall be judge of the county in which the cause of action arose or w presiding superior court judge of either county, to be determine

(b) After a hearing upon due notice, with all parties h and present evidence, the court shall determine, in the court's settlement involves the payment of all funds that reasonably co

> In making a determination pursuant to this section, The likelihood of success by the claimant at

The amount of applicable primary and exce Whether there are insurance coverage dispu Whether the settling defendant or defendant of the applicable insurance coverage.

The liquid assets of the settling defendant The assets potentially available to the cla judgment obtained against the settling defen of difficulty and likelihood of being able circumstances, including whether a settling derendant has other creditors

already ahead in line, and the proper administration of the courts.

Any other factors that weigh for or against the proposed settlement, under all

If the court determines that the amount of the proposed settlement involves payment of all funds that reasonably could be collected from the settling party or parties, then the claimant

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nonsettling defendant or defendants, less the amount of all settlements with settling defendants If a judgment is entered in favor of a claimant against nonsettling defendants that is less than the amount of all settlements between the claimant and settling defendants, the claimant shall recover nothing from nonsettling defendants.

(e) If the court determines that the amount of the proposed settlement does not involve payment of all funds that reasonably could be collected from the settling party or parties, the court shall also determine, in the court's discretion, the amount of a settlement that would involve payment of all funds that reasonably could be collected from the settling party or parties.

"§ 1H-40. Reduction of workers' compensation lien and subrogation right; notice and

intervention. If an employer or workers' compensation insurer asserts a lien or right of subrogation under G.S. 97-10.2, the employer or insurer is deemed to have had its obligation to the employee for the compensation benefits paid or payable discharged under G.S. 1H-35 as if the employer or

insurer had received a release, covenant no or entered a similar agreement with, responsibility that the employer would he not immune under Article 1 of Chapter 97 a released person pursuant to G.S. 1H-15 monetary amount of the employer's percer against the third party.

(b) A party asserting that an empl of subrogation should be reduced under s fault shall give notice to the employer employer or insurer may intervene in the

"§ 1H-45. Uniformity of application ar In applying and construing this Chapt uniformity of the law with respect to its s "8 1H-50. Severability clause.

If any provision of this Chapter or invalid, the invalidity does not affect other given effect without the invalid provision Chapter are severable

SECTION 2. G.S. 1B-2 reads "§ 1B-2. Pro rata shares.

In determining the pro rata shares following apply:

Their relative degree liability is based upon defined in G.S. 1H-5, General Statutes shall l

If equity requires, the c single share; and share, Principles of equi

section 3. Article 31 of Ch a new section to read:

"§ 143-300.1B. Contributory fault app Subject to the provisions of G.S. 143acts or omissions that constitute contrib Chapter 1H of the General Statutes shall a SECTION 4. G.S. 99B-1.1 r

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The equities of the case and whether a settlement is in the interests of justice

of the circumstances

may proceed with the proposed settlement. If a judgment is entered against the nonsettling defendant or defendants that exceeds the amount of all settlements between the claimant and settling defendants, the claimant shall be entitled to recover the amount of the verdict from the

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"§ 99B-1.1. Strict liability.liability; contributory fault.

There shall be no strict liability in tort in product liability actions.

When liability is based upon acts or omissions that constitute contributory fault as defined in G.S. 1H-5, the provisions of Chapter 1H of the General Statutes shall apply to product

SECTION 5. G.S. 28A-18-2 is amended by adding a new subsection to read:

When liability under this section is based upon acts or omissions that constitute contributory fault as defined in G.S. 1H-5, the provisions of Chapter 1H of the General Statutes shall apply to actions for damages under this section."

SECTION 6. G.S. 1A-1, Rule 7(a), reads as rewritten:

"(a) Pleadings. - There shall be a complaint and an answer; a reply to a counterclaim denominated as such; an answer to a crossclaim, if the answer contains a crossclaim; a third-party complaint if a person who was not an original party is summoned under the provisions of Rule 14; and a third-party answer, if a third-party complaint is served. If the answer alleges contributory negligence, a party-may serve a reply-alleging last clear chance. No other pleading shall be allowed except that the court may order a reply to an answer or a third-party answer."

SECTION 7. G.S. 1A-1, Rule 8(c), reads as rewritten "(c) Affirmative defenses. - In pleading to a preceding pleading, a party shall set forth affirmatively accord and satisfaction, arbitration and award, assumption of risk, contributory negligence, fault, discharge in bankruptcy, duress, estoppel, failure of consideration, fraud, illegality, injury by fellow servant, laches, license, payment, release, res judicata, statute of frauds, statute of limitations, truth in actions for defamation, usury, waiver, and any other matter constituting an avoidance or affirmative defense. Such pleading shall contain a short and plain statement of any matter constituting an avoidance or affirmative defense sufficiently particular to give the court and the parties notice of the transactions, occurrences, or series of transactions or occurrences, intended to be proved. When a party has mistakenly designated a defense as a counterclaim or a counterclaim as a defense, the court, on terms, if justice so requires, shall treat

the pleading as if there had been a proper designation." SECTION 8. This act becomes effective January 1, 2022, and applies to actions originally filed on or after that date.

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Sidewalk Riding-North Carolina is one of the eleven states without specific laws regarding cycling on sidewalks.

The driver of a vehicle emerging from or entering an alley, building entrance, private road, or driveway shall yield the right-of-way to any pedestrian, or person riding a bicycle, approaching on any sidewalk or walkway extending across such alley, building entrance, road, or



Risk Management, Consequence of Error, Rights and Engineering IRL

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North Carolina is one of eight states in the nation that does not have an anti-dooring law.

Sec. 11-2137. - LIMITATION ON OPENING MOTOR VEHICLE DOORS INTO TRAFFIC. It shall be unlawful to open the door of a motor vehicle on the side available to moving traffic unless and until it is reasonably safe to do so, and can be done without interfering with the movement of other traffic, nor shall any person leave a door open on the side of a vehicle available to moving motor vehicle or bicycle traffic



The Idaho Stop

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The original Idaho yield law was introduced as Idaho HB 541 during a comprehensive revision of Idaho traffic laws in 1982.

The term "Idaho Stop" came into popular use as a result of the California effort in 2008. Prior to that, it was called "Idaho Style" or "Roll-and-go". "Idaho Stop" was popularized by the bicycle blogger Richard Masoner in June 2008 coverage of the San Francisco proposal, but in reference to the "Idaho Stop Law"



The Idaho Stop

https://legislature.idaho.gov/stat utesrules/idstat/title49/t49ch7/se

49-720. STOPPING — TURN AND STOP SIGNALS. (1) A person operating a bicycle, human-powered vehicle, or an electric-assisted bicycle approaching a stop sign shall slow down and, if required for safety, stop before entering the intersection. After slowing to a reasonable speed or stopping, the person shall yield the right-of-way to any vehicle in the intersection or approaching on another highway so closely as to constitute an immediate hazard during the time the person is moving across or within the intersection or junction of highways, except that a person, after slowing to a reasonable speed and yielding the right-of-way, if required, may cautiously make a turn or proceed through the intersection without stopping.

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| State | Statute | Can Treat Stop Signs as Yields | Can proceed through a red light | Can proceed through an inoperative and/or malfunctioning light | Can enter intersection | Notes | |
|-----------|--|--------------------------------------|---------------------------------------|--|--|--|--|
| Arizona | 28-645 | | | Yes | when it is safe to do so | | |
| Colorado | No state law, but Summit County, Breckenridge, and Dillon have stop as yield local laws. | | | | | | |
| Delaware | §4196A | Yes | | | after yielding | Can only treat stop signs as yield signs on roadways with 2 or fewer lanes. Law expires Oct. 5, 2021 | |
| Idaho | 49-720 | Yes | Yes | | after yielding | | |
| Illinois | 11-306(3.5) | | | Yes | after a reasonable period of time (not less than 120 seconds) | Only applies in municipalities with less than 2m inhabitants | |
| Indiana | 9-21-3-7(b)(3) (D) | | Yes | | after at least 120 seconds | Must exercise due caution, treating the red light as a stop sign | |
| Kansas | 8-1508(c)(4) | | | Yes | after a reasonable period of time | | |
| Minnesota | 169.06(9) | | | Yes | after a reasonable period of time | | |
| Missouri | 304.285 | | | Yes | after a reasonable period of time | | |
| Nevada | 484B.307 | | | Yes | after a two complete cycles of the lights or lighted arrows | | |
| Oregon | 811.36 | | | Yes | after one complete full cycle | Signal must be controlled by a vehicle detection device | |

BICYCLE FRIENDLY STATES - "IDAHO STOP" AND "DEAD RED" LAWS





| | State | Statute | Can Treat Stop Signs as Yields | Can proceed through a red light | Can proceed through an inoperative and/or malfunctioning light | Can enter intersection | Notes |
|--------|------------|----------------|--------------------------------------|---------------------------------------|--|--|---|
| South | n Carolina | 56-5-970 | | Yes | | after 120 seconds | |
| Tenne | essee | 55-8-110(8)(d) | | | Yes | when safe to do so | Signal must actually be controlled by vehicle detection device |
| Utah | | 41-6a-305(7) | | Yes | | after a reasonable period of time of not less than 90 seconds | Only applies to persons 16 years of age or older |
| Virgin | nia | § 46.2-833(B) | | Yes | | after a two complete cycles or two minutes, whichever is shorter | |
| Washi | ington | 46.61.184 | | | Yes | after one cycle of the traffic signal and exercising due care | Signal must actually be controlled by vehicle detection device |
| Wisco | onsin | 346.37(1)(c) | | Yes | Yes | after not less than 45 seconds | Must have reasonable belief that signal is controlled by vehicle detection device |



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Questions and Thanks from: Terry Lansdell

Director@bikewalknc.org bikewalknc.org

Thank You