

## Huntsville MPO Bike Plan

August 2025

Public Draft Plan



### **Acknowledgments**

This plan is dedicated to the residents of the Huntsville region. We thank you for your involvement and dedication to improve bicycling in our community.

We recognize and thank the many technical staff, advocates, and community organizations who provided guidance, leadership, and feedback throughout the planning process.

#### Local agency staff

- Huntsville Metropolitan Planning
   Organization (MPO)
- City of Huntsville Long Range Planning
- City of Huntsville Traffic Engineering
- City of Huntsville Public Transportation (Orbit)
- City of Madison Planning
- City of Madison Engineering
- → Madison County Engineering
- Top of Alabama Regional Council of Governments (TARCOG)

### Bicycle Advocacy Organizations and Committees

- → Bicycle Advisory and Safety Committee (BASC)
- Spring City Cycling Club (SCCC)
- → Huntsville Area Mountain Bike Riders (HAMR)
- Huntsville Urban Bike Share Coop (HUBS)
- Citizens Advisory Committee for Transportation
- ★ Madison Greenways and Trails
- Singing River Trail

#### Advisors

- ★ Land Trust of North Alabama
- Federal Highway Administration (FHWA)

  Alabama Division
- ✦ Alabama Department of Transportation (ALDOT)
- Huntsville Vision Zero Task Force
- Huntsville City Schools
- Huntsville Housing Authority
- Huntsville Tennessee Valley AMBUCS
- Alabama Agricultural and Mechanical University (Alabama A&M)
- University of Alabama in Huntsville (UAH)
- ✦ Huntsville Hospital
- Ditto Landing
- → Redstone Arsenal
- → Cummings Research Park

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### Welcome to the Huntsville MPO Bike Plan

The Huntsville Metropolitan Organization (MPO) is proud to present a bike plan in collaboration with the MPO's partner agencies including the City of Huntsville, City of Madison, Madison County, Town of Triana, and Town of Owen Cross Roads.

According to the 2020 Decennial census, the Huntsville MPO is home to 412,930 residents. In the last 20 years, the MPO has seen approximately 132,000 new residents move to the region. With the area's high quality of life, growing technology and manufacturing sectors, and economic development in the region, the area is expected to continue to grow by 66% between 2020 and 2050 according to the 2050 Long Range Transportation Plan. With this time of growth comes challenges, especially on trade-offs to designing our roadways and balancing infrastructure needs in the public right-of-way.

This plan charts a path forward for the MPO to strategically plan, design, and implement a safer bicycling network for all residents of the MPO, from ages 8 to 80, to use biking as a way to travel to school, work, neighborhoods, parks, and the region's many attractions and special events.

### Join us as we make the Huntsville region a safe and welcoming place to bike!













the existing bike network to a resident.



City of Huntsville Mayor's Bike Ride 2024

Bike the Rocket City

### Why Bicycling?

Bicycling is a legitimate actual, needed, and possible form of transportation for area residents.



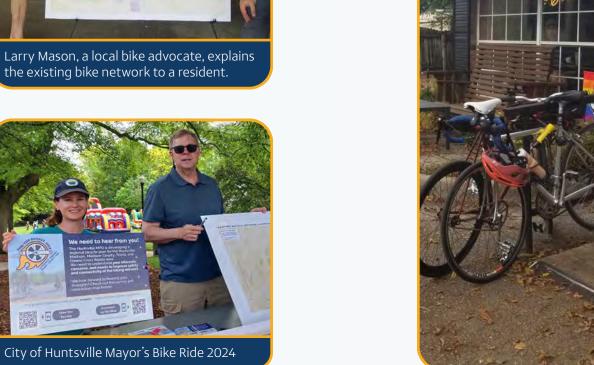
Bicycling is **clean and healthy** with the potential to reduce vehicular trips, congestion, emissions, improving the health of people and infrastructure.



Bicycling cities **attract** and retain workforce and young professionals, making them more economically competitive.

Bicycle facilities **create** new businesses and opportunities through a qualityof-life, recreationfocused economy.





# A Shared Vision for Bicycling in the Huntsville MPO

As a connected, safe, and comfortable place for bicycling for all ages and abilities, the Greater Huntsville MPO region is a premier location for bicycle transportation and recreation. A culture emerges where bicycling is accessible and fun, helping attract and retain workforce and contributing to a strong regional economy.



Goals to Accomplish the Vision



### **Provide connectivity**

between destinations and existing greenways, and across municipalities.



**Prioritize safety** in

bikeway development and programs, building off Vision Zero efforts.



Increase equal access to bicycle transportation and utilitarian options for disadvantaged communities, including improved access to transit, schools, and major employers.



Build **high-quality, comfortable** bike facilities
that improve experience
and increase ridership.



**Build a bicycling culture** where all roadway users are more considerate, through education, encouragement, and safety programs.

### **Huntsville Bikes!**



### My name is Ryan.

- → I am a person just like you.
- + I love my family and my pups.
- + I am a cyclist.

### Why I ride

The physical and mental health benefits can't be measured. I love exploring the world with my friends and community. Keeps me young at heart!



### My name is Desmond.

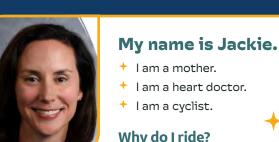
- I am a father of three.
- I ride an e-bike.
- → I am a roadway technician.

My name is Chris.

I am a local business owner.



Biking importance is near to me. Biking for fun or short trips is relaxing and takes one more car off the road, reducing the total car footprint on the map.



Daily exercise keeps me feeling

on my joints. I love exploring

healthy. Biking is an easy activity

outdoors and enjoy the peace and

beauty of nature. I love the magic

of the sunrise every morning at

the overlook at Monte Sano.



### Why do I ride?

I am a cyclist.

+ I am a dad.

Intentional movement is one of the best tools to help me be the best version of myself. Cycling is what I do for my career. Exploring new places brings me joy. It's my passion.



### My name is Joe.

- I am a husband.
- + I am an engineer.
- + I am a cyclist.

### Why do I ride?

I get to work three days a week, year round, in all weather. To relax and enjoy outdoors. To explore different parts of Huntsville, North Alabama, the United States, and Europe.



### My name is Heath.

- I am a husband and father.
- I am a program manager.
- I am a cyclist.

### Why do I ride?

I am a social rider. I enjoy riding and training with my friends. I enjoy racing both mountain and road bikes. My job can be stressful. Cycling is the best way to start my day. Riding helps me find joy and wonder in the world.



### My name is David.

- † I am a husband, father, and grandfather.
- + I am a rocket scientist.
- + I am a road, mountain, and gravel cyclist.

#### Why do I ride?

I like to ride because I can challenge myself physically and mentally. Riding has taken me to some epic and beautiful places. And cycling keeps me healthy.



### My name is Jamie.

### Why do I ride?

I like to transport myself on a bike as often as possible. I have been a bike commuter for most of my life and all of my career as an engineer who loved developing hardware for space stations. I prefer riding to walking because nothing hurts when I'm on a bike. I feel happier and know that I stay healthier riding a bike.



### My name is Karen.

- + I have two children and two grandchildren.
- + I am a graphic designer.
- † I am a cyclist and lover of the outdoors.



Health and fitness are critical to my overall well-being. I love the wind in my face and sun on my skin. My most memorable travels have been cycling related. I cherish the friendships I have gained through cycling. Challenging myself physically helps me stay mentally sharp as I age.







### **Plan Outcomes**

The Huntsville MPO Bike Plan is a feasible plan that is phased, leading to successful implementation and working toward accomplishing the stated vision and goals. The plan identifies both easy, quick-win projects that create immediate impact and long-term, visionary projects that may require additional funding, design, or coordination. As a regional effort, the plan proposes numerous projects throughout the MPO. The plan provides implementation strategies to accomplish the proposed projects.

### **The Planning Process**

The Huntsville MPO Bicycle Plan engaged dozens of technical staff and hundreds of residents across the entire region through multiple engagement types, including a Technical Advisory Committee, Community Stakeholder Committee, open house, bike rides, public survey, interactive map, focus groups, and event attendance.

### **The Plan Document**

The core plan gets to the heart of the matter, describing existing conditions and including updated bicycle facility typologies, recommended long-term bike network, shortterm bike network, and an implementation strategy that is organized by the plan goals highlighted earlier in this chapter. More detailed information on the engagement results and project prioritization process can be found in the Appendix.

### 2024

#### JAN - MAR

- Review Past Plans and Create GIS Basemap
- **Website Setup**
- **Public Survey** + Input Map
- **Existing Conditions** + Planned Network

#### **APRIL - JUNE**

- Gap Analysis
- Demand Analysis
- Community Stakeholder Committee Meeting #1 (Vision and Goals)
- Technical Advisory Committee Meeting #1 (Vision and Goals)

#### **JULY - SEPT**

- Draft Network Development
- House #1: **Project Overview** + Vision and Goals
- + Existing Conditions Technical Advisory
  - Committee Meeting (Existing Conditions Feedback)

- Public Open
  - Begin Project **Prioritization Model** Development

Community Stakeholder

#2 (Draft

Committee Meeting

Recommendations)

Implementation

Phasing Strategy

Framework +

### 2025

#### **OCT - DEC** JAN - MAR

- **→** Finalize Project Prioritization
  - Policy + Program Recommendations
- Draft Plan
  - ★ Technical Advisory Committee Meeting #3 (Draft Network Recommendations)

#### APRIL - SEPT

- ✦ Final Plan
- ♦ One-on-one Local **Agency Meetings**
- Public Online Open





### **Bicycling Today in the Huntsville MPO**

Cities and communities in the Huntsville MPO have begun increasing funding and construction of bike-ways and greenway trails across their jurisdictions in recent years. At the same time, the urbanized and suburbanized landscapes have continued growing, making bicycling trips often too long or cut off by large transportation or rail infrastructure and, in some cases, topography. Bike-ways and trails are generally fragmented and mostly used for recreation and exercise by the local communities who have access or by running and biking enthusiasts who drive to trailheads.

The culture of bicycling in the region mirrors what is often seen across the Southeast. Bicycling advocacy groups and bicyclists pursue infrastructure improvements and culture change; motorists tend to not expect bicyclists or get irritated by bicyclists on roadways, leading to dangerous situations; and disadvantaged or homeless populations who depend on bicycling often ride incorrectly such as in the wrong direction, leading to confusion among roadway users.

Opportunities exist to expand solid greenway networks, particularly in Huntsville and Madison. The Singing River Trail is one example of a regional shared-use path system that will connect across jurisdictions. There are also opportunities to improve short viable trips for bicycling, such as improved transportation and recreation connections to places like Downtown Huntsville, University of Alabama at Huntsville (UAH), Town Madison, and others.

Building out a bicycle network requires understanding what is existing today in terms of infrastructure, demographics, safety, equity, and demand for bicycling. Summaries of this information can be found in this chapter. In addition, this plan's recommendations aren't developed from scratch but built upon previous planning efforts, which are also highlighted at the end of this chapter.



the City of Huntsville's transfer center.

### **Existing and Planned Greenway Network**

The Huntsville MPO already includes over 70 miles of greenways and side paths, which are mostly located along creeks, drainages, and roadways. The City of Huntsville Greenway Master Plan calls for the development of more greenway each year with visions for long-distance greenway spines along major waterways like the Flint River. Multiple agencies are working together to see the greenway plan come to fruition. This bike plan seeks to add new low-stress and safe bicycle facilities to these greenway connections.

#### Stats of the Current Network

Greenways

**Greenlinks** (side paths)

**Previously Proposed Greenway Mileage** 

**Visionary Greenways** 

**Proposed Greenways** 

1324 miles 624 miles

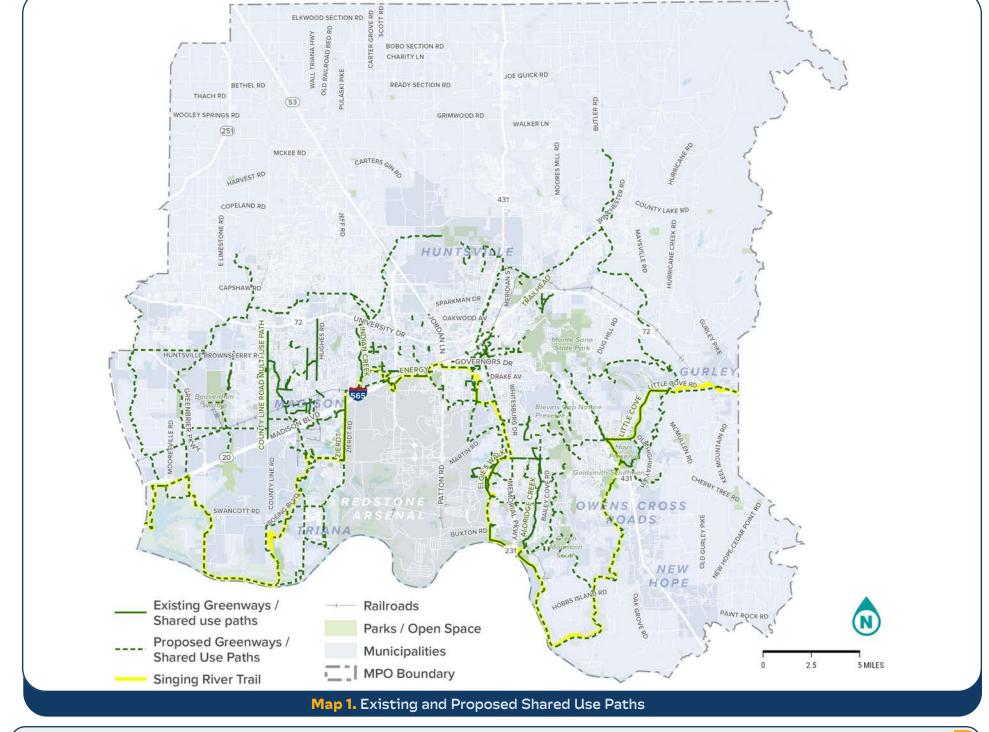
**Proposed Greenways for Connections** (all overlap with the visionary greenway layer)

124 miles



**Bike the Rocket City** 

For more information, check out the City of Huntsville's Greenway Master Plan and resources





### **Existing and Planned Bicycle Route Network**

The Huntsville region boasts an existing 182mile signed bicycle route network that features mostly low-traffic neighborhood streets with green route markers. The previous 2020 MPO Bike Plan includes recommendations for an

additional 347 miles of bike routes throughout the county. In addition, approximately 30 miles of bike lanes have been proposed in the plan. This plan seeks to identify more separated bike facilities that will be comfortable for

all ages, from 8 to 80. The future network recommendations in this plan leverage existing greenways and bike lanes to create a connected network of bicycle facilities.



**Stats of the Current Network** 

**Bike Routes** 

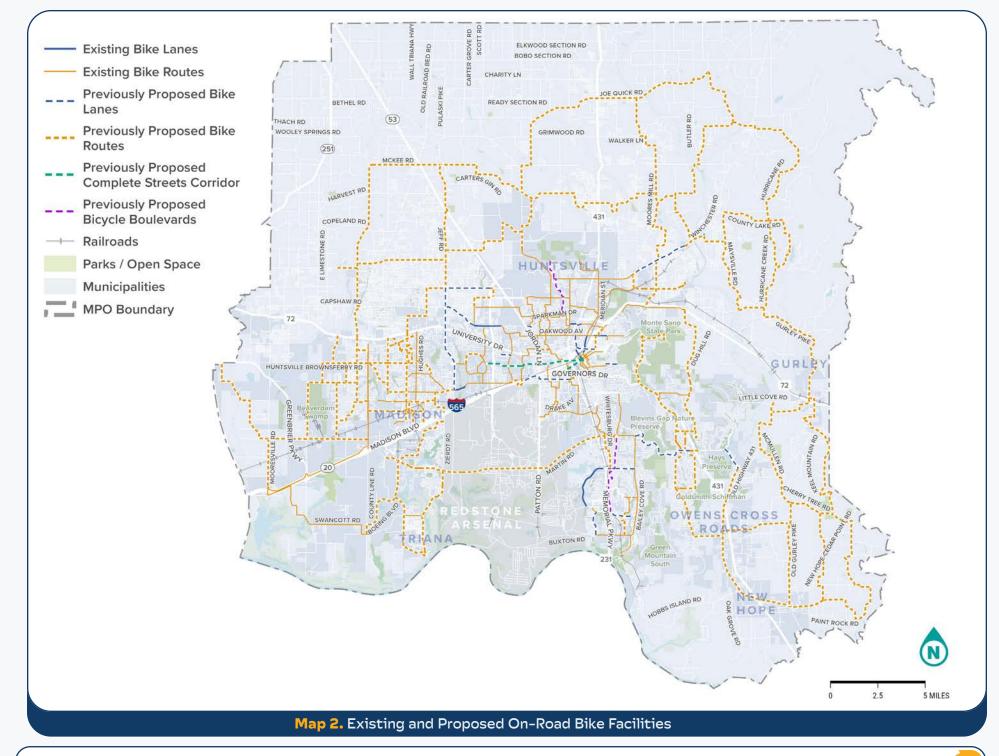
**Bike Lanes** 113 miles **Previously Proposed Mileage** 

**Bike Routes** 

Greenlinks

**Bike the Rocket City** 

**Bike Lanes** 







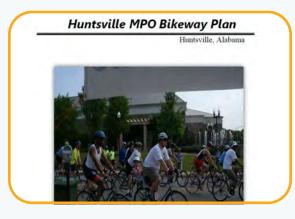
### **Past Plans and Projects in Development**

The project team assessed past plans and visioning documents that guide active transportation and bikeway development. The documents shown here represent a portion of that plan review and highlight major projects that will connect the MPO though future bikeways, greenways, and alternative modes.

Select the title of each plan to access the full study or planning document.

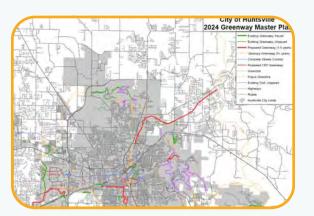
#### 2019 MPO Bike Plan

outlines the types of bike-ways and recommendations for programs to encourage



### 2024 Greenway Plan

includes 312 miles of connected greenways, side paths, and Complete Street corridors.



### Madison on Track 2045

serves as the City of Madison's comprehensive plan and includes major greenway and side path connections.



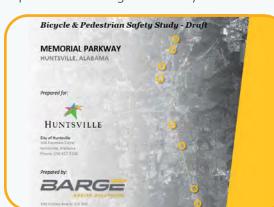
### Downtown Active Transportation Connectivity Action Plan

outlines strategic intersection improvements to improve walking and biking access into downtown Huntsville.



### Memorial Parkway Bicycle and Pedestrian Safety Study

details crosswalks, signals, and intersection improvements along the Parkway.



### **Holmes Ave Complete Streets**

will bring roadway safety improvements and bike facilities along a 3.25-mile stretch from downtown to the UAH campus.



#### **Meridian Street Corridor Plan**

provides recommendations for redevelopment and improvement of a four-mile stretch of Meridian Street north of downtown.



### **Meek Greenway**

will connect to a future Alabama A&M greenway and the North Huntsville Greenway (description below).



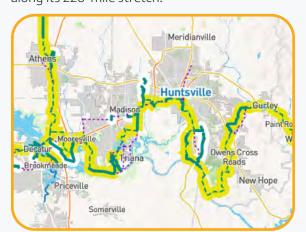
### Pedestrian Access and Redevelopment Corridor (PARC)

will provide the ability to walk or bike to destinations on both sides of the Parkway.



### **Singing River Trail**

will become the major trail greenway spine across North Alabama, connecting six counties along its 220-mile stretch.



### North Huntsville Greenway Plan

creates a vision for a greenway connection from PARC to the AL A&M campus, providing biking connectivity throughout this corridor.







### Identifying the Need for Bike Facilities

Where and why are bike crashes happening?

Where are the injury type crashes?

Understanding where and why bike crashes are happening uncovers which roadway corridors need safety improvements and where alternate safe routes are necessary.

Safety

Are proposed bike facilities serving disadvantaged communities?

Identifying where residents don't have access to a vehicle and may rely on transit or active transportation helps locate where residents need bike facilities.

**Equal Access** 

How can new bike facilities convert vehicle trips to bike trips?

We can understand where people are traveling and the trip distance to identify strategic bike facilities that can encourage more biking trips, providing residents with more transportation options and reducing congestion during peak travel times.

**Trip Conversion** 

Where will residents use bike facilities the most?

A live-work-play analysis and short trip assessment highlights where people are traveling and where new bicycle facilities can meet the highest demand areas for bicycle commuting.

**Demand** 

### Safety

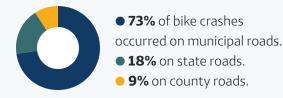
Between 2016 and 2023, there were 199 crashes where a bicyclist was hit by a vehicle. During this time frame, two bicyclists lost their lives in crashes, and 29 crashes resulted in suspected serious injuries. There were 83 nonincapacitating injuries (victim could walk away from scene), 40 possible injuries, and 39 property damage only. (ALDOT CARE data)

The infographics that follow explain the location of the crashes and top contributing factors.



86 out of 199 crashes were intersection related.







60 out of 199 bike crashes (30%) happened on designated bike routes.

### **Vision Zero Findings**

This plan builds upon the efforts of the City of Huntsville Vision Zero effort. As part of the Vision Zero Plan, a bicycle High Injury Network (HIN) was identified. This data was used to identify top corridors for safety improvements or where safer alternative routes are needed.

Top corridors from the Huntsville Vision Zero HIN included the following:

- University Drive
- → Oakwood Avenue
- → Holmes Avenue
- → Jordan Lane
- Clinton Avenue
- ✦ Governors Drive
- → Sparkman Drive

Daylight

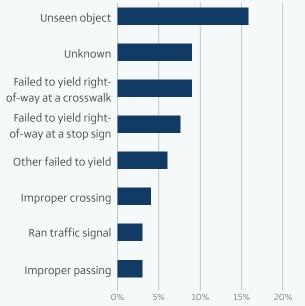
Dark

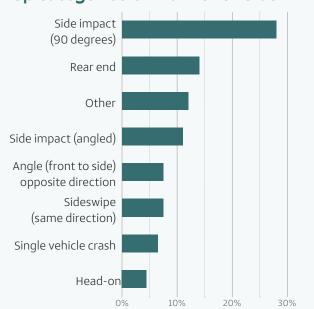
Dusk

- Pulaski Pike
- → Mastin Lake Road
- → Meridian Street
- → Drake Avenue
  - ★ Triana Boulevard
    - → Airport Road

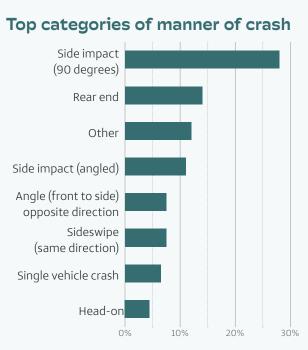
**Lighting Conditions** 

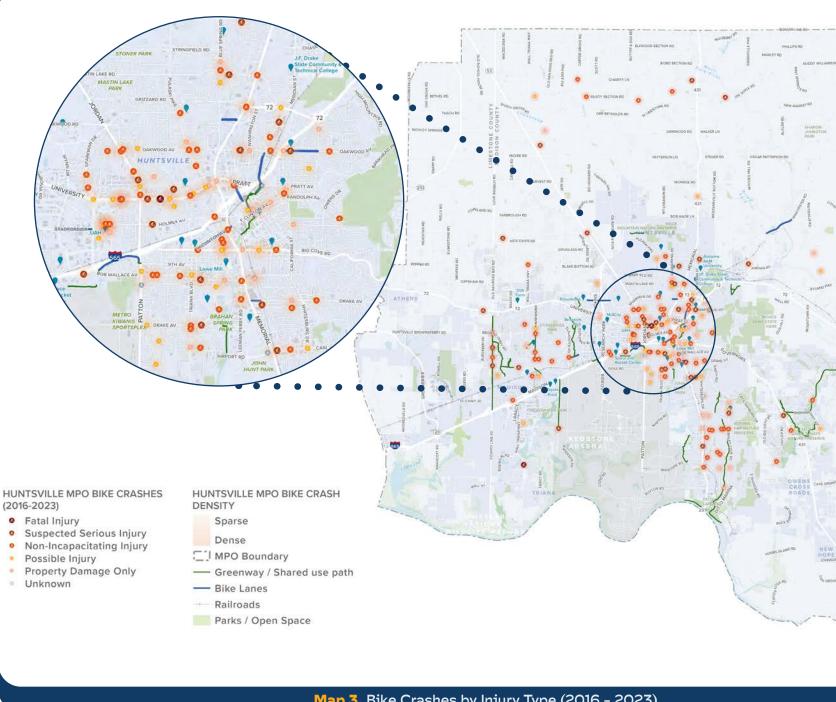
### **Top Contributing Circumstances**











Map 3. Bike Crashes by Injury Type (2016 - 2023)

### **Equal Access**

As part of the project's goals, the plan aims to provide bicycle facilities to residents who may face transportation disparities and ensure equal access to bicycling as a mode of transportation. Residents may rely on transit or active modes to get around to work, school, and shopping destinations. By looking at where these residents live, the plan can focus on priority bike facility locations.

As seen in the map to right, historically disadvantaged communities are located in the north and west portions of Huntsville.

Zero vehicle households are located in similar locations with greater density along the Governor's Drive corridor just west of US 431 (The Parkway).

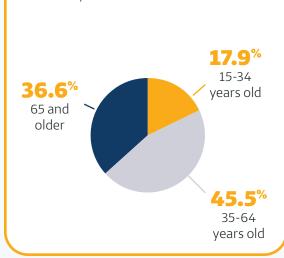
### **Zero Vehicle** Households

Based on 2023 American Community Survey estimates, 3.2% of households in the MPO area are expected to be without a vehicle. That means than approximately

6.750 households or approximately 16,000 residents within the Huntsville Metro Area do not own a personal vehicle.

The ages of the residents who do not own a vehicle are shown below.

Percentage of those households without vehicles, by eldest member:

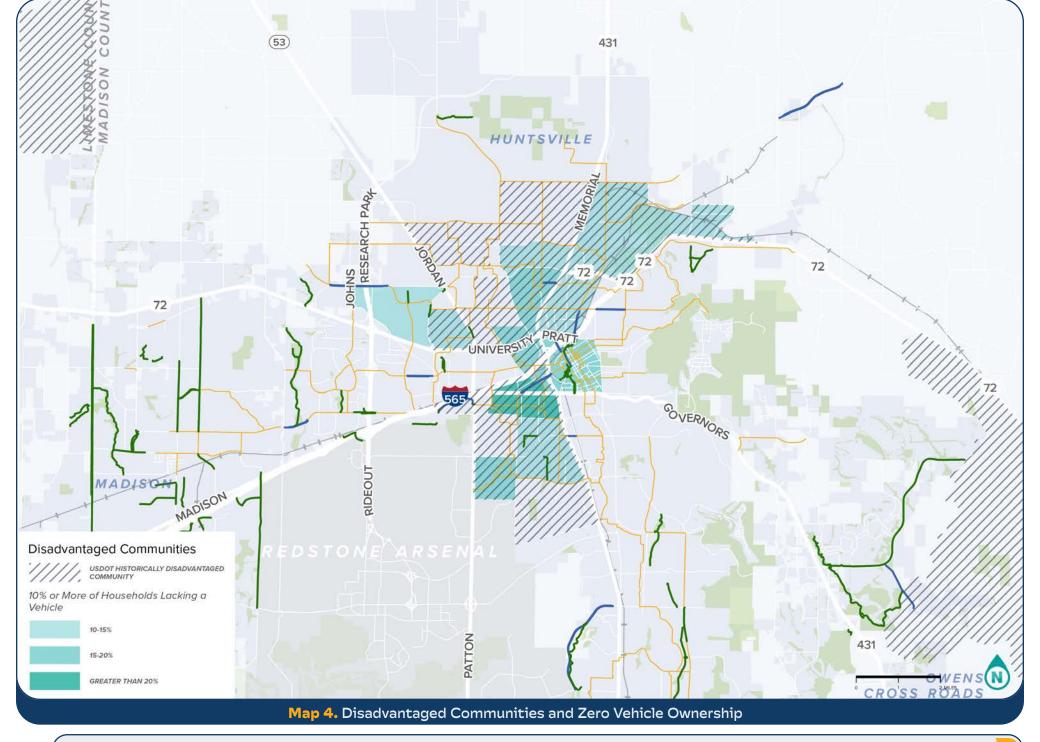




Many residents without a vehicle rely on transit service to live, work, shop, and recreate. Providing these first- and lastmile connections will be key to providing residents with options and meeting the needs of the thousands of residents without a personal vehicle or ability to drive.

### **USDOT Definitions**

This analysis was performed in 2023 with US Department of Transportation (USDOT) data on historically disadvantaged communities. As of this plan's publication in September 2025, this data is not hosted on USDOT's website. Similar datasets. including underserved communities, are available by USDOT and referenced in recent grant programs, including the Safe Roads and Streets for All (SS4A) Program.



### **Trip Conversion: Active Trip Potential**

The project team conducted an active trip potential analysis to identify start and end locations of short trips that could be taken by a bicycle. This data helps decision makers and planners within the MPO illustrate where new investments in bike infrastructure can meet demand and provide travel alternatives. As shown by the top five locations below, there are thousands of trips that could be made via bicycle commuting, which will reduce congestion, improve air quality, and lower the wear and tear of our roadways.

Census blocks showing the five highest numbers of short trips (under three miles) were:

### **East Research Park**

**12,295 Trips**: Research Park has numerous bike commuters and hosts three weekly group bike rides. It is initiating a bike share program with HUBS Coop.

### **Downtown Huntsville**

**11,564 Trips**: Downtown Huntsville is filled with events, shopping, businesses, healthcare, and government services that can be accessed by bike by residents living in Oak Park, Blossomwood, and West Huntsville. Downtown has a long established bike share to make it easier for residents and visitors to access a bike for short trips around downtown.

### The Medical District

**8,862 Trips:** The Medical District includes Huntsville High School and the Huntsville Madison Public Library, which has a sizable student after-school attendance. The library and Mana House are relied on by people without cars.

### **Mid City District**

**8,808 Trips**: This district is directly between Research Park and UAH, with entertainment and events that draw residents and visitors on a daily basis. This district also contains trips to and from Calhoun Community College.

### Parkway and Crestwood Commercial District 8.600 Trips:

This commercial area includes the Parkway, Walmart Supercenter, Country Club Apartments, the Crestwood Medical Center, and the Village on Whitesburg. The area is characterized by large parking lots, suburban housing, and office parks. An existing bike route crossing Memorial Parkway via Airport Road is located at the southwest corner. A safe crossing of the Parkway here will be a key connection.

Note: The Arsenal is another hot spot for bicycle commuting but did not show up in the analysis due to potential security restrictions and long distances to destinations in the Arsenal.

### Trip Conversion Potential

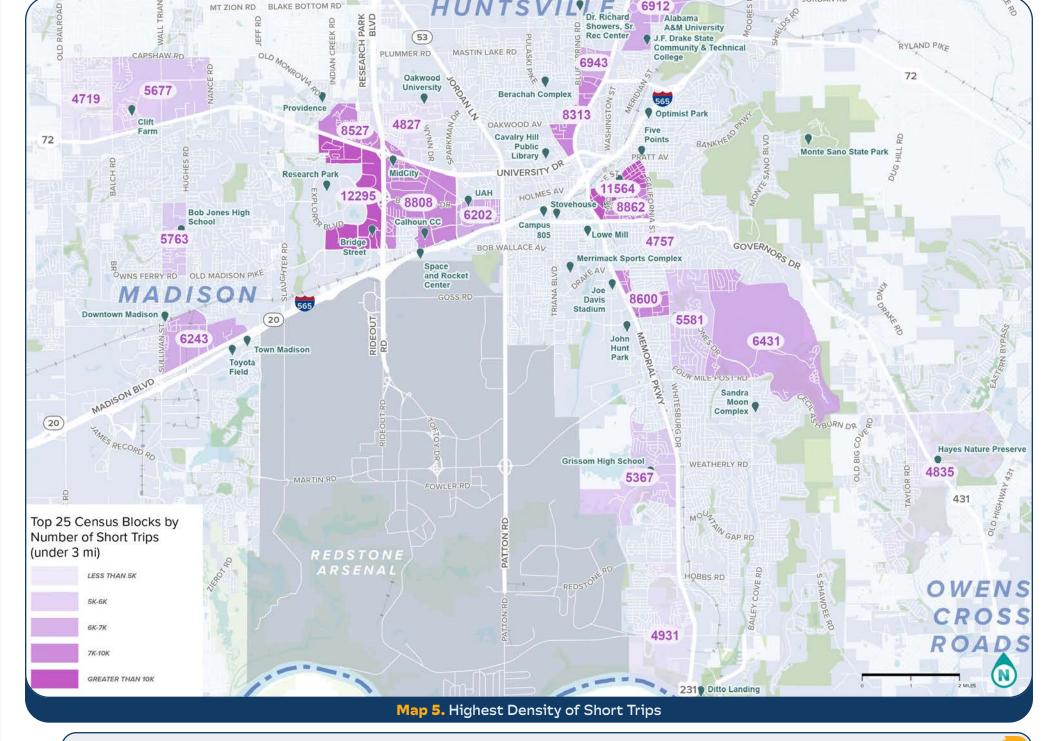
Founded within Google, **Replica** is a big data provider that uses de-identified mobile location data. The data shown here is from Replica Places, which generates activity-based travel models by using location, demographic, built environment, and economic activity data. The project team used this data to illustrate where and when vehicle trips are happening and which ones are under three miles.

As modeled by the Replica data, there are an estimated **986,190 automotive vehicle trips happening daily** within the Huntsville MPO. Of those trips:

305,111 trips (31% of total trips) are under three miles.

71,129 trips (7.2% of total trips) are under one mile.

These short trips could become active travel trips when safe and attractive bicycle infrastructure is implemented.





### **Short Trips: Origins and Destinations**

The most concentrated short trips are anticipated between **University of Alabama** at Huntsville, Providence, and Research Park. In this same area, there are also two adjacent connections to John Paul High School and Oakwood University. This highlights a need for safe bicycle connections between these major employment centers as well as a need for safe crossings of Research Park Boulevard.

Other notable trips include the following major destinations:

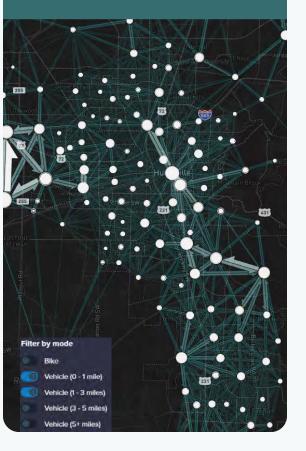
- ♦ Between Bob Jones High School and Mill Creek Greenway
- → John Hunt Park
- Crossing I-565 near Intergraph Way
- → Hampton Station and Big Cove Creek Greenway
- ★ Lincoln Mill area and the Medical District
- East and West of Clift Farm
- → Shopping along Carl T. Jones Drive in the Target shopping center

### **Disadvantaged Communities**

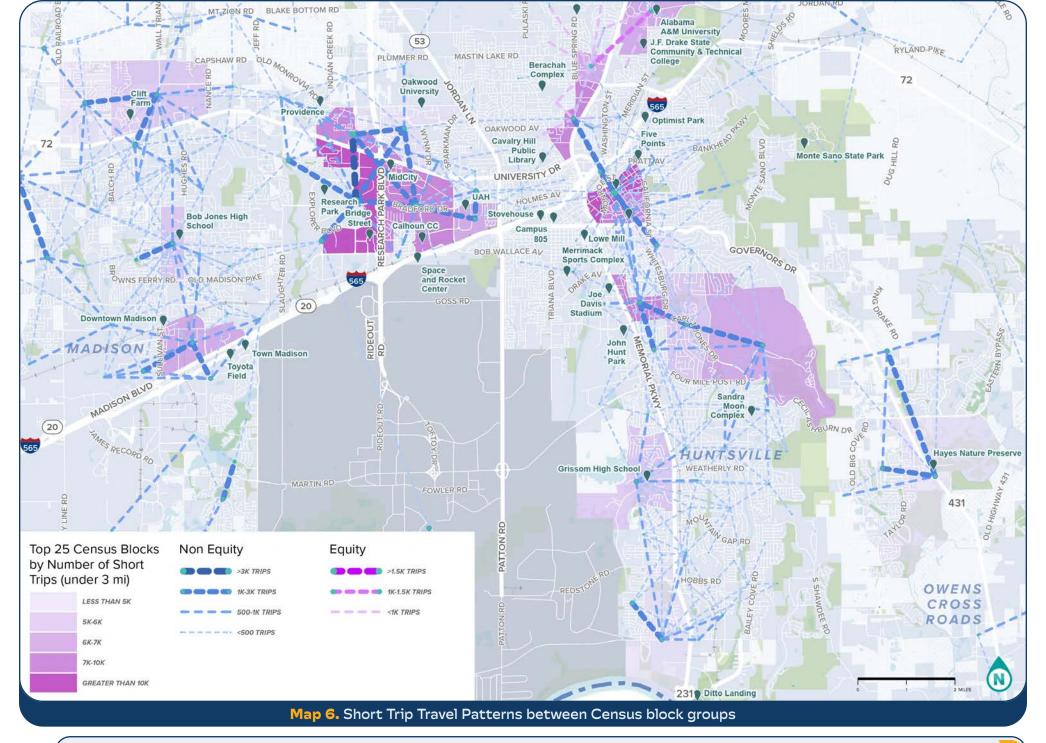
The highest number of trips made by residents of disadvantaged communities occurred between the districts centered on Lakewood Elementary and Alabama A&M University. Other popular trips were centered around Montview Elementary School. Over 500 direct trips appear to be roughly between Chapman Mountain Nature Preserve and Alabama A&M. Nearly 200 trips were recorded along the Limestone Creek Trail.

### **Modeled Trips**

Replica uses the activity model to capture origin and destination data. This provides insights into where residents and visitors are traveling and the trip distances. As part of the analysis, the project team developed an interactive web map to view modeled trip flows between census blocks. The map allows users to filter by mode and distance type.



**Bike the Rocket City** 





### **Demand and Short Trip Potential**

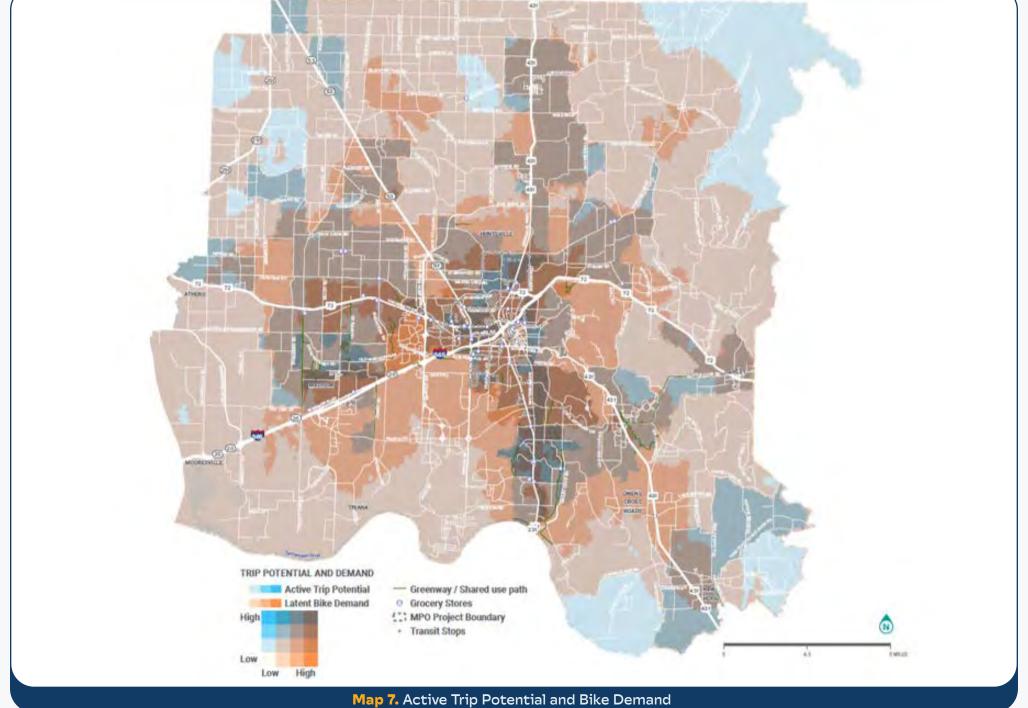
The short trips analysis highlights where vehicle trips could be converted to active trips. A demand analysis was also created to provide a comprehensive overview of where residents live, work, and play and zones for anticipated demand for bicycling. This data provides planners and decision makers within the MPO with data-driven findings to inform where future bicycle facilities will meet the highest areas of demand.

The project team developed a Live, Work, Play tool to assess both existing and suppressed demand for biking. This suppressed demand, known as latent demand, comprises trips that are not or cannot be taken because a key factor—such as safe, comfortable, and connected infrastructure—is missing. This analysis produces a heat map showing areas of high latent demand based on the consideration of trip generators, such as where people live and work, trip attractors, such as schools and retail establishments where people learn and play, and current trip-making behaviors.

The map to the right shows the areas of highest demand and short trip potential in the brown areas.

Major hubs of latent demand and short trip potential include the following:

- → Downtown Huntsville
- University of Alabama at Huntsville
- → Alabama A&M University
- → Oakwood University
- Providence
- ★ Research Park
- → Bridge Street Town Centre
- → John Hunt Park area
- ★ Lowe Mill to Stovehouse
- ★ Memorial Parkway in south Huntsville
- → North of downtown between Pratt Avenue and Sparkman Drive
- → Mill Road near the former Insanity Complex
- → The Shoppes of Madison along US 72
- → Along Memorial Parkway near Green Cove Road
- → Along SR 53 at Jeff Road
- → Along Carl T Jones Drive in Jones Valley
- → Hazel Green north on US 431
- → Gurley on US 72





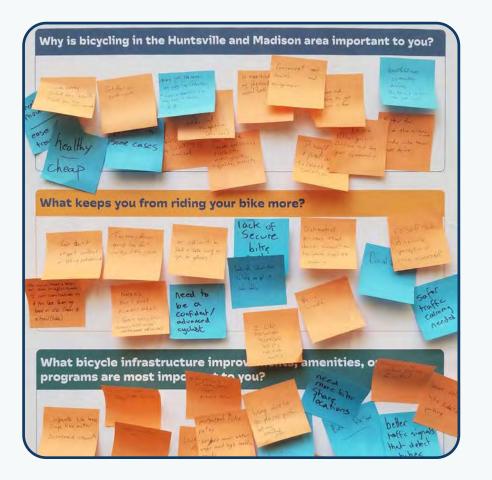






### **Engagement Overview**

The project team engaged thousands of Huntsville MPO residents to understand where they would like to bike more, their safety concerns, and what supportive amenities, programs, and policies will help make bicycling a safer and more attractive form of transportation. The team heard from the public through a survey, interactive map, social media engagement, open houses, and meetings. Along the way, the team met with City of Huntsville, City of Madison, and Madison County engineers, traffic engineers, advisors, and decision makers to ensure the recommendations in this plan follow and build upon existing practices and processes. The findings in this chapter highlight major findings from engagement efforts.





### **Technical Stakeholder Engagement**

Community nonprofit representatives, municipal engineers, and department officials from county and city governments participated in MPO Community Advisory and Technical Stakeholder Meetings to ensure the bike plan was compatible with previous and ongoing efforts throughout the multi-agency MPO. Meetings provided opportunities to share visions, goals, priorities, barriers, opportunities, demand analysis, public input, and design standards as well as provide feedback on the recommended network.



### Huntsville Bicycle Advisory Safety Committee Meetings

April 2024 - March 2025

Huntsville Bicycle Advisory Safety Committee (BASC) was consulted from the inception of the project, with BASC members kicking off by leading a public Huntsville downtown group ride on April 14, 2024. The ride was attended by Huntsville officials from multiple departments as well as concerned citizen commuters. Members of BASC continued to be consulted throughout the network development process, culminating in a draft bike network presentation at the BASC February 2025 meeting for citizen feedback.

### Vision Zero Stakeholder Presentation

November 13, 2024

Alta Planning + Design was able to share crash analysis data with the Vision Zero Task Force. The HIN developed by the Vision Zero effort was used to inform prioritization of routing in the Bicycle Network.

### **Network Workshops**

Spring 2025

City of Huntsville, City of Madison, and Madison County: Stakeholders provided feedback on the development of the bike facility network.

### **Technical Stakeholder Meetings**





- 2025

 One-on-one meetings with City of Huntsville, City of Madison, and Madison County

### **Public Engagement**

### **Public Events**

Open houses and pop-up events were arranged in partnership with the Huntsville Planning
Department and the Huntsville Urban Bike Share
(HUBS) Coop to both inform and gather feedback from the public on the future of cycling in the Huntsville MPO. City officials and consultants were present to answer questions about existing and previously proposed bicycle facilities as well as to learn about issues citizens face when biking, or when deciding not to bike in the MPO area.

### **Online Interactive Map**

An online interactive map was provided to draw routes and point to intersections and destinations, including:

- → Favorite routes
- + Favorite destinations
- Difficult intersections
- Routes needing improvement

### **Online Survey**

An online survey was conducted reaching residents over the vast majority of the MPO. This provided an outlet for residents to share specific locations and stories about their experiences as cyclists in the Greater Huntsville Area.

### **Pop-Up Events**







### **Open Houses**

**Final Webinar** 





August 2025

**Bike the Rocket City** 

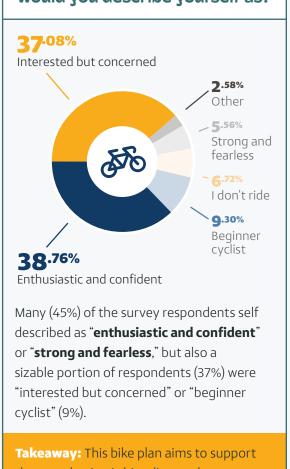
### **Engagement Findings**

### Survey and Interactive Map Findings



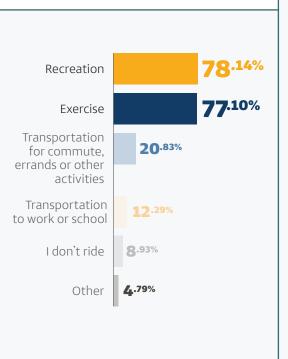
**Huntsville MPO Bike Plan** 

### What type of cyclist are you/ would you describe yourself as?



**Takeaway:** This bike plan aims to support these enthusiastic bicyclists and encourage the 46% who are interested or new to biking.

### Why do you currently ride your bike?

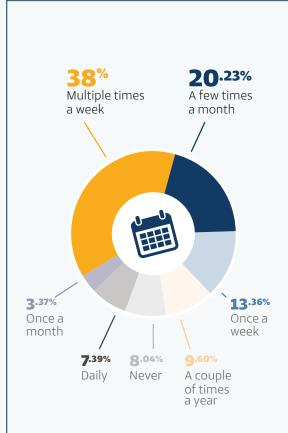


**Takeaway:** While most survey respondents are riding bikes for recreation and exercise, a significant number of respondents (33%) use

bicycles as a means of transportation to work, school, errands, or other commuting.

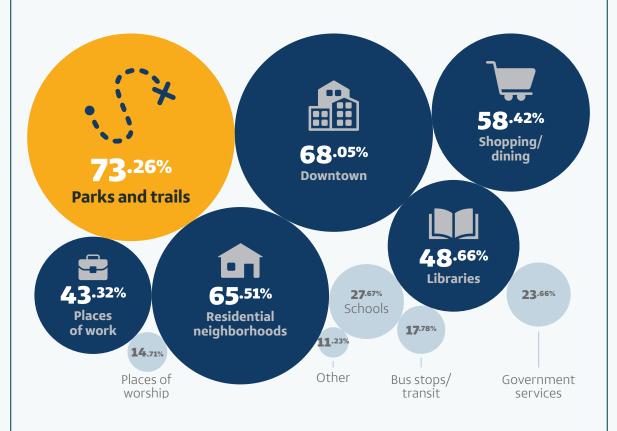


### How often do you ride?

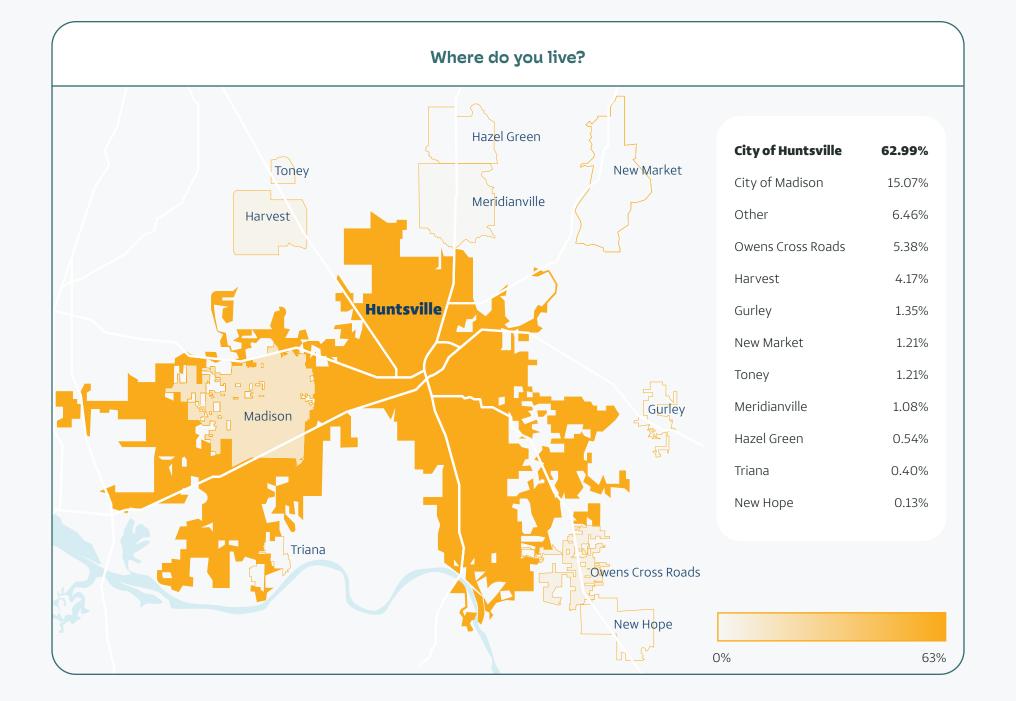


The majority of survey respondents are using their bicycle **multiple times a week** (38%), once a week (13%), or a few times a month (20%).

### Which destinations would you like to ride your bike to?



**Parks and trails** came out on top as the most desired locations for residents to ride their bike to. **Downtown, residential neighborhoods, shopping/dining, places of work, and libraries** were the next top priorities.



**Engagement and Public Feedback** 

Bike the Rocket City

### **Interactive Map Feedback**

### **Overview**

Participants shared their favorite residential routes, struggles to cross major roads, stories of near misses, and their dreams of a future interconnected Huntsville. Facility **Connectivity** and **Safety** were by far the top issues. All public feedback was reviewed and considered when developing the plan recommendations.

### **Favorite Corridors And Destinations**

Specific favorite routes, destinations, and facilities were shared both online and at events. These valuable insights were used in combination with previous plans and data during the network design process to connect gaps and provide alternate options for difficult routes and intersections.

978

interactive map comments



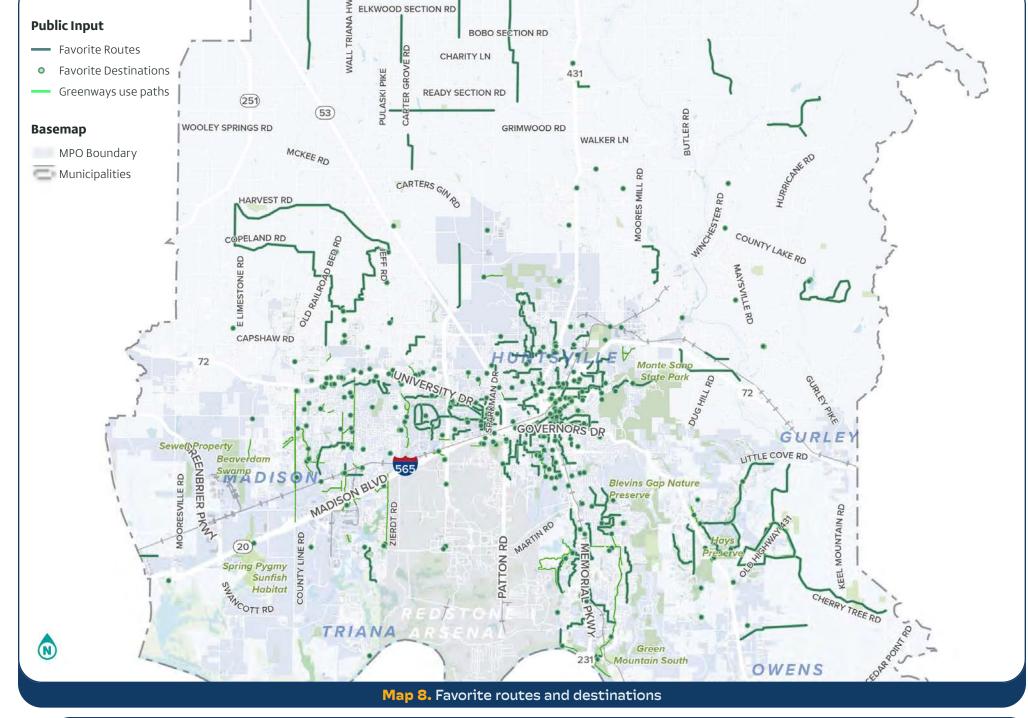
"I ride for recreation and exercise as well as for my daily commute

into research park. I'd like to have a better network of east west routes."

### "Clinton Ave. is the best route across town,

connecting Oak Park, Five Points, downtown, and the Campus 805 area—while managing to mostly avoid high traffic, multi-lane roads and highways. It's an ideal corridor for more robust and protected bike lane."

**Bike the Rocket City** 





### **Difficult Intersections**

The difficult intersections highlighted were the most often mentioned from the combined feedback gathered by the interactive map, survey feedback, and public event input. The larger greenway connections of **Indian Creek crossing US 72** and **Aldridge Creek crossing the golf course** were highly noted. Requests for general crossings of **Bailey Cove Road** and safer passage along **Bradford Drive from Research Park as it passes Research Park Boulevard ramps** are top concerns. By and large, intersection and crossing improvements were requested for all of **Memorial Parkway**, **US 72**, and **I-565**. The top 20 specific intersections of concern were:

- 1. Indian Creek Greenway Crossing US 72
- 2. Bradford Drive crossing SR 255/Research
  Park Boulevard
- 3. Airport Road crossing Memorial Parkway
- 4. Sutton Road/Eastern Bypass or Little Cove Greenway crossing US 431
- 5. Old Monrovia Road crossing University Drive
- **6.** Bradford Drive/Holmes Avenue crossing Wynn Drive
- 7. Clinton Avenue crossing under Memorial Parkway
- 8. Crossing Bailey Cove Road near Mira Vista
  Drive
- **9.** Bradford Drive crossing Sparkman Drive
- 10. Gillespie Road and Wall Triana Highway
- 11. Weatherly Road crossing Memorial Parkway

- **12.** Bike Route 22/Kohler Road crossing Memorial Parkway
- 13. Governors Drive crossing Memorial Parkway
- 14. Main Drive Bridge crossing Paint Rock River
- **15.** Logan Drive/Lily Flagg Road crossing Memorial Parkway (Signal timing)
- **16.** 9th Avenue/Governors House Drive crossing Jordan Lane (Signal timing)
- **17.** Bob Wallace Avenue crossing Memorial Parkway
- 18. US 431 and Taylor Lane
- 19. Hughes Road Side Path crossing Mill Road
- **20.** Sparkman Drive Bike Route crossing I-565

### Clinton Ave Crossing Memorial Parkway

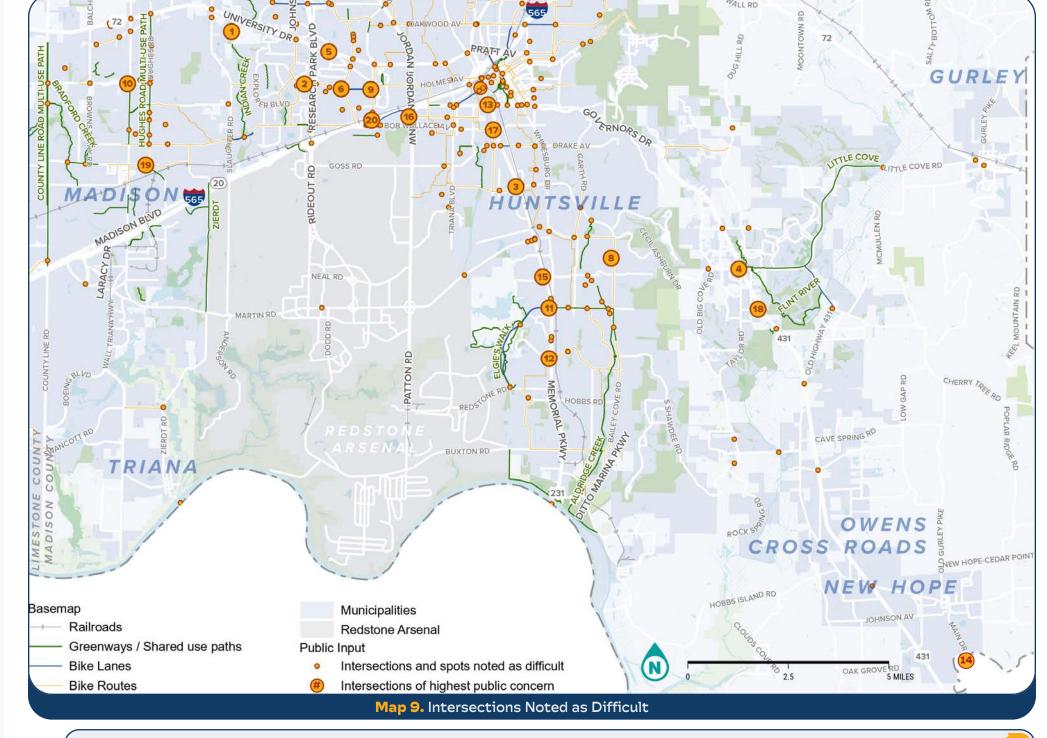
"Biking west away from downtown isn't bad, but biking back into downtown has you crossing two on ramps and two exit ramps. The bike lane coming back into downtown ends between the two sets of ramps too, so bikes heading east have to merge with traffic."

### Crossing the Parkway at Weatherly

"There is a crosswalk there now, but there are obstacles (the overpass) that obstruct drivers' vision for cyclists. Plus, they are not looking for cyclists. If a more sophisticated crosswalk/bridge/tunnel is not feasible, it would be great to at least have a flashing light to let drivers know that a cyclist is crossing."

## "Feels like we are an island on the Goldsmith side of 431.

It's hard to comfortably get kids and or myself or a dog across to access facilities, middle school, Hays, grocery store, etc."





### **Top Corridors**

Routes recommended by residents for improvement were gathered by the interactive map feedback, specific survey feedback, and public engagement comments or drawings. Requests for corridors most often cited Memorial Parkway, US 72, and Whitesburg Drive but were at times accompanied with requests for a parallel route not directly on or following the roadway. The top 20 specific routes of concern were:

- 1. Old Madison Pike/Browns Ferry Road
- 2. Whitesburg Drive (or alternate)
- **3.** US 72/University Drive (or parallel)
- 4. Indian Creek Greenway northern gap
- 5. Holmes Avenue/Bradford Drive
- 6. Aldridge Creek Greenway gap
- 7. Slaughter Road
- 8. Bob Wallace Avenue
- Bankhead Parkway
- 10. Madison Boulevard

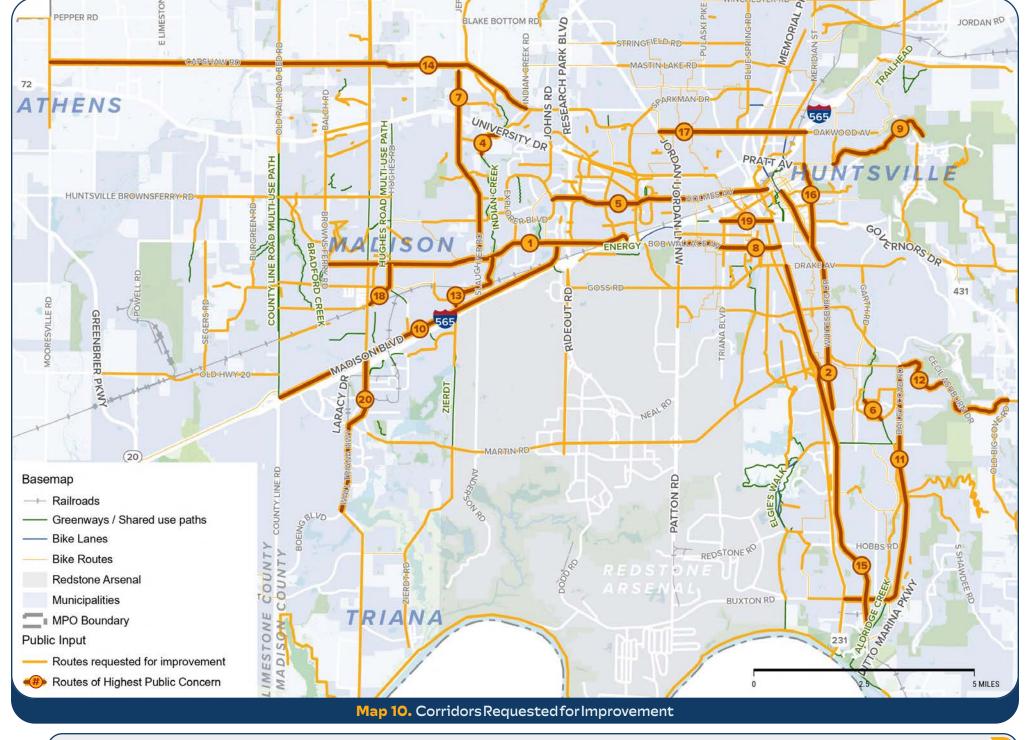
- 11. Bailey Cove Road
- 12. Cecil Ashburn Drive
- 13. Indian Creek Greenway to Zierdt Side Path
- 14. Capshaw Road/Old Monrovia Road
- 15. L&N Greenway
- **16.** California Street
- 17. Oakwood Avenue
- 18. Hughes Road
- 19. Governors Drive
- **20.** Wall Triana Highway

### "Longer greenways, more separated bike lanes

near greenways to encourage biking to and from them especially south Huntsville greenways."

### "We need to get ahead of the game

to make the most use of the new Sky Bridge. Also connecting the existing greenways will go a long way. Separated bike paths and lanes are the best use. It's safer and encourages more people to ride."





**Huntsville MPO Bike Plan** 



Erin and Andrew, Huntsville Area Mountain Bike Riders (HAMR) club leaders, want to be able to ride to their jobs in Research Park, the Arsenal, to the grocery store, John Hunt Park, and dinner.



Julia rides her bike to commute, have fun, exercise, and spend time with her daughter. Her daughter, Jessie, rides a bike so she can exercise, and it's fun!



Jacob rides his bike for commuting, but also for social time with friends. He shared that bikes are a great device for transporting yourself, staying in shape, and having fun with friends.

### We thank you!



Thank you to the hundreds of Huntsville MPO residents who shared their stories, time, energy, and feedback during the planning process.

### **Engagement Top Takeaways**

Table 1. Concerns and Action Items

Concern	Action Items for the Bike Plan		
Clear separation of bicycle facilities from other modes of travel	Upgrade existing facilities. Install shared-use side paths where possible.		
Greenway connectivity	Fill in the gaps with more greenways or alternative road facilities as links between them.		
Protected bicycle facilities	Upgrade bike lanes with buffers or separators. Install cycle tracks with vertical separation from cars where possible.		
Need to Update Rocket City: stemming from a sense that Huntsville is behind and needs to catch up with other cities	Show the demand to those in decision-making positions. Continue to provide more supportive infrastructure, programs, and policies to support bicycling.		
Driver and biker conflicts	Public education campaigns are key. New programs will spread awareness, and visible facilities will help raise the awareness of bicyclists on the road.		
Law enforcement	Provide visible mechanisms for reporting incidents and create clearly designated rules and consequences.		
Difficult-to-cross intersections	Implement protected intersections, more bike detection, new signals, and additional striping.		
Education is needed primarily for drivers but also for bikers	Spread awareness of bike and driver safety through new programs and launch an awareness campaign.		
School and youth accessibility	Locate bike boulevards and greenway connections near schools to allow for safe routes to school and provide neighborhood bicycle boulevards for children as they learn to be more confident riders.		
Land use and policy changes	Update policies and land development codes to provide connected bike facilities, encourage density where appropriate, and create interconnected neighborhoods with new developments.		
Commercial connectivity to neighborhoods	Provide safe crossings of major roads and implement shared-use side paths along shopping areas to create safe zones that can encourage more biking for daily activities.		
Workplace connectivity to neighborhoods	Work with major employers and their staff to identify key commuting routes.		



### **Facility Recommendation Typologies**

The proposed bicycle facility types in this plan include bicycle boulevards, bike lanes, buffered bike lanes, separated bike lanes/cycle tracks, and shared use paths. Spot improvement toolboxes include traffic calming, signals, bike boxes, protected intersections, and mid-block crossings.

The project team used industry standards to identify facility recommendations for the core network to determine the best-fit facilities for both the core and long-term networks.

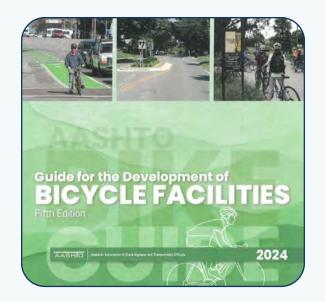
According to federal guidance, different bikeways suit different roads based on speed and traffic volume (see graphic on pages 56 and 57). Higher road speeds and traffic volumes require more separated facilities. Streets with lower road speeds and traffic volume may not require separation.

The facility types with speed limit and Annual Average Daily Trips (AADT) are meant to serve as overall guidance and not specific recommendations. Every location will have context sensitive elements such as on-street parking, presence of driveways, and other factors that will influence bike facility selection.

### **Latest Guidance**

The project team referenced the following national guidance regarding bike facility selection:

- ★ AASHTO Guide for the Development of Bicycle Facilities
- ↑ AASHTO Guide for Bike Crossings
- → FHWA Bikeway Selection Guide
- → FHWA Separated Bike Lane Guide
- + FHWA Separated Bike Lanes on High Speed Roads
- ★ FHWA Road Diets
- + FHWA Field Guide to Selecting Pedestrian Countermeasures at Uncontrolled Crossings
- → FHWA Small Town and Rural Multimodal Networks
- ↑ NACTO Don't Give up at the Intersection
- → NACTO Designing for All Ages and Abilities
- ↑ NACTO Urban Bikeway Design Guide
- → USDOT Rail with Trails
- → USDOT Guidebook for Developing Pedestrian and Bicycle Performance Measures
- → MUTCD



### **BIKEWAY DESIGN GUIDE**

# **URBAN**

**Bicycle Boulevard Design Guidance** 

The types of bicycle facilities recommended in this plan are illustrated on the next page. The recommended vehicle speed ranges and volumes were guided by the 2025 National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide. This guide provides recommendations for bicycle facilities for all ages and abilities. The full guide provides guidelines and best practices for designing and implementing bike infrastructure. By following NACTO resources, the recommended facilities meet high standards.

### **Design Flexibility**

**Bicycle Typologies** 

The traffic volume and speeds listed on the next page are meant as preliminary guidance when locating a bicycle facility on a roadway. Vehicle volumes and speeds are not fixed. These can change over time through policy and design. In some cases, a proposed bicycle facility might fall short of the All Ages and Abilities traffic volume and speed requirements, but can still substantially reduce traffic stress for people on bikes. Jurisdictions should not use the inability to meet the criteria to avoid implementing a bikeway.

### SHARED-LANE markings should be placed within 50 ft (15 m) of the approach and receiving **4018** side of all intersections. 2 41 0 Use closely-spaced SHARED-LANE markings to help bikers navigate turns. Wayfinding or standard bike route signs help identify the route. Source: 2025 NACTO Urban Bikeway Design Guide (p. 121)



### All Ages and Abilities Bike Facility Types

### **Bicycle Boulevards**

A shared street between bikes and vehicles. Slow vehicle speeds, neighborhood type streets, and traffic calming combine to create bicycle boulevards. The sharrow markings communicate the presence of cyclists on the roadways.



Appropriate Vehicle Speeds: ≤ 20 mph

Appropriate Daily Vehicle Volume:





Source: 2025 Urban Bikeway Design Guide

#### Bike Lane

A marked space on and along a length of roadway designated for use by bicyclists. As shown on the image below and other bike lane types, a painted bike symbol with direction of travel arrow is included.





### Appropriate

Vehicle Speeds: ≤ 20 mph

Appropriate Daily Vehicle Volume: < 3,000 AADT



#### **Buffered Bike Lane**

A bike lane with additional buffer space between the bike lane and the auto lane or parked cars, used on moderate volume or moderate speed roads, or roadways with high parking turnover



Appropriate Vehicle Speeds: ≤ 25 mph

Appropriate Daily Vehicle Volume: < 6,000 AADT



### Cycle Tracks/ Separated Bike Lanes

A portion of a right-of-way that has been vertically separated from traffic by crosshatched paint with curb, planting strip, or parked cars for the exclusive use of bicyclists (usually one-way protected lanes or two-way cycle tracks).



Appropriate Vehicle Speeds:

> 25 mph

Appropriate Daily Vehicle Volume: > 6,000 AADT



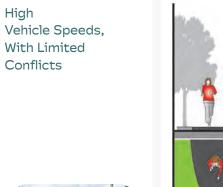
### Shared-Use Path: Side Path

A bikeway physically separated from motorized vehicular traffic by an open space or barrier and either within the highway right-of-way or within an independent right-of-way.

### Shared-Use Path: Greenway

A pathway that is not adjacent to a roadway that accommodates pedestrians and bicyclists, dog walkers, joggers, and so on through open space and/or parks.











Appropriate

Vehicle Speeds:

Appropriate Daily

Least separated (lower traffic volume/speed scenarios)

Most separated (higher traffic volume/speed scenarios)



Proposed Bike Network **Bike the Rocket City Huntsville MPO Bike Plan** Proposed Bike Network

### **Traffic Calming Toolbox**

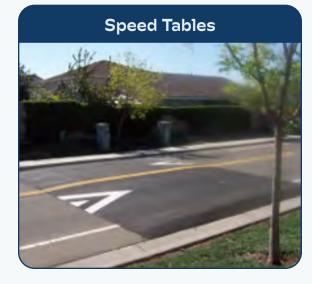
# Raised Crosswalks





### **Traffic Calming Options**

This page includes a sample of traffic calming options and configurations. The traffic calming measures are meant to encourage slower vehicle speeds and create a more comfortable environment for bicycling. These treatments are recommended mostly for bicycle boulevards. The raised crosswalks and curb extensions are recommended crossing improvements.





**Bike the Rocket City** 

### **Intersection Treatment Toolbox**







### Intersection Treatments of Bicycle Facilities

One very important part of bicycle facility implementation is the intersection crossing treatment. As they say, "Don't stop at the intersection."

The improvements shown here illustrate options for safer bicycle crossings at intersections to increase visibility, awareness, separation, and communication of bicycles on the road.





### **Protected Intersections**

Protected intersections allow for safer bicycle and pedestrian movement and provide dedicated space for bicycle travel across the intersection. Striping and the geometric design of these intersections increase visibility of cyclists. Narrow curb radii encourage slower speeds. Mountable curbs can be installed to allow for emergency vehicle movement through the intersection. The following guidance provides conceptual recommendations for a protected intersection layout.

Bikeway Setback: 10' minimum in the shadow of the parking/loading lane, 14-20' preferred.' If < 12', include longer clear distances, and additional signal phasing or speed reduction strategies. Setbacks > 20' increase turn speeds, > 25' are treated as a separate intersection.

Corner Island: Radii should be small enough that passenger cars are discouraged from turning > 10 mph. May have a mountable override area to accommodate large vehicles. Corner islands may also be channelization markings that are reinforced by mountable vertical elements such as modular speed bumps.

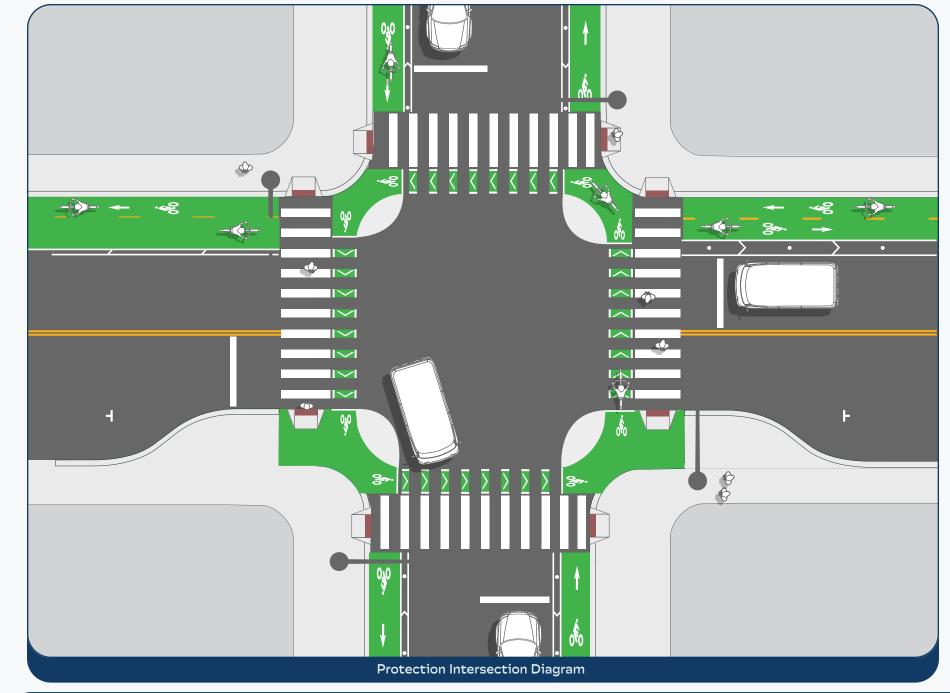


Pedestrian Islands: Wider islands support high volumes of people walking and biking, raising the person-capacity of the intersection. To serve as an accessible waiting area, the minimum width of a pedestrian island is 6'. The desired minimum width is 8'. If 6' or wider, detectable warning surfaces must be placed at both sides of the island to distinguish the bikeway from the sidewalk, and the island from the bikeway.

No Stopping/No Standing Zones: Long enough to allow approaching drivers and bike riders to see and recognize one another ahead of the intersection. 20-30' of curb before an intersection as a no-standing zone to increase visibility. Features that permit visibility, such as plants, seating, bike parking, and shared micromobility stations, can be placed here.

Accessible Signals, Bike Yield Line and Bike Lane Crosswalk, and other Signs: "Yield Here to Pedestrian" sign if yield teeth are used. See MUTCD Chapter 4E, PROWAG, other national guidance, and local standards for signal timing and location guidance. Bike traffic should be expected to move forward to the stop bar on any signal phase, and pedestrian traffic should also be expected to cross to the island on any phase. This operation may be formalized with optional yield teeth on the bikeway before the crosswalk. "Turning Vehicles Yield to Bikes and Pedestrians" sign (R10-15) is recommended where a signalized intersection allows right turns concurrent with bicycle and pedestrian movements (NACTO '24) (MUTCD 2000).

Bike the Rocket City





Huntsville MPO Bike Plan Proposed Bike Network

### The Proposed Bike Network

Maps on the following pages illustrate the envisioned bicycle network throughout the MPO. The types of bicycle facilities are shown on pages 56 and 57. Where possible, the network leverages slow speed and low traffic neighborhood streets as future bicycle boulevards. Bike lanes are proposed where speeds and volumes are appropriate for a designated striped facility. Separated cycle tracks are proposed in urban areas where there is potential space within the pavement for a safe bike facility.

Roadways with high traffic volumes and speeds include side paths where there is a need for full separation.

Shared use paths, buffered bike lanes, and bicycle boulevards are the main recommended facilities within the urban areas of the MPO. Visionary bike-ways are located in more rural areas where a future shoulder, bike lane, or shared use path is recommended. The typology will depend on the land use context, future development, vehicle travel speeds, and volume.

 Table 2. Bicycle Network Recommendation Mileage by Type

Facility	Existing Miles	Recommended Miles	
Greenways	61.6	224.9	
Side Paths	36.8	289.8	
Standard Bike Lanes	9.7	14.1	
Buffered Bike Lanes	0.8	68.5	
Bike Boulevards	0	133.4	
Protected or Separated Bike Lanes/Cycle Tracks	1.3	30.4	
Unclassified: Pending design study	N/A	31.5	
Visionary Bike-ways	N/A	265.1	

### How did we get there?

To develop the bike network, the project team evaluated every road across the MPO in terms of demand, safety, and feasibility for bicycle facilities. The types of facilities were chosen based upon the following factors:

### **Roadway Context**

- → Traffic volumes
- → Speed limits
- Crash data and HIN

### plus

### **Anticipated Demand**

- → Strava heat map data
- ★ Short trip potential analysis findings
- Live work plan analysis findings

### plus

### Infrastructure or Past Planning

- Existing and previously proposed bike infrastructure and greenways
- Past plans and upcoming projects

### plus

Public and Technical Stakeholder Feedback

### Recommended Bicycle Network Facilities

#### Huntsville MPO Bike Plan

#### Recommendation

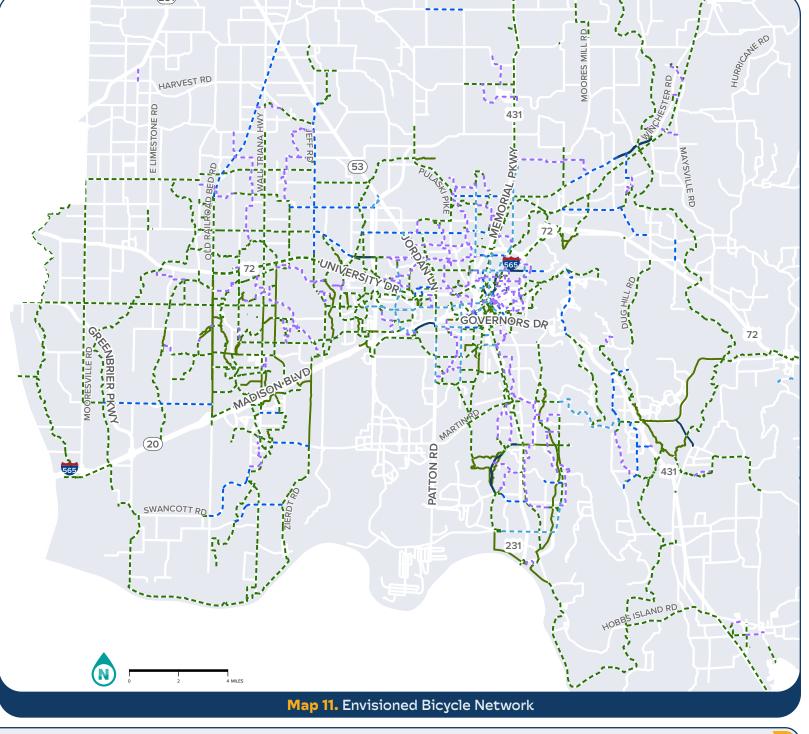
- Shared Use Paths
- Bike Lanes
- Cycle Tracks/Separated Bike Lanes
- Bike Boulevards

#### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes

#### Basemap

MPO Boundary





### **Recreational Connections**

The MPO recommendations are interconnected facilities that are comfortable to all abilities of commuter and casual users alike. While the MPO proposed bike network does not include all the more recreational routes from the 2020 Greenway Master Plan, it does provide access points to the existing and previously proposed shared use facilities as well as mountain biking trails that are geared toward the advanced recreational biker.

Some connections are direct links between greenways or shared use paths while some are accessed by shared road bike routes, which may include signage and appropriate shoulder widths.

Lines on Map 12 include existing bike facilities such as bike trails as well as previously proposed shared use paths. Many of the previously proposed greenways were ridge-top and river routes with some off-road proposals. Recreational long-distance routes also include difficult crossings of highways. The dots represent points of access and improvement to such recreational facilities. Input for these came from recreational long-distance cyclists in the Huntsville area.

### **Notable Connections**

### **Existing Greenway Connections**

- → Indian Creek
- Bradford Creek
- → Aldridge Creek
- Heritage Plantation
- → Flint River
- → Tennessee River
- ✦ Redstone Gateway

#### **Proposed Trail Connections**

- → Warpath Ridge
- ✦ Red Lizard Trail
- Arrowhead Trail
- → Spacewalk
- → Fanning and Scout Trail
- → Bill and Marion Certain and Blevins Gap
- ★ Weatherly Mountain
- ★ Sugar Tree Trail
- → Wallace Mountain
- + Hawks Ridge
- ♦ NICA Trail
- → Wade Mountain
- → Devil's Race Track

- → Poison Ivy Trail and Chapman Mountain
- Driskell Trail
- Terry Trail
- ✦ Hadley Hill Trail
- ★ Lost Sink Trail
- → Tall Tupelo Trail
- → Bankhead Parkway Trail
- → Tollgate Trail
- ✦ Fagan's Spring Trail
- ✦ Elona/Chase Rail Trail
- Chaney Thompson Trailhead

### **Bike Route Crossings**

- → Singing River Trail Route
- ✦ Hobbs Island Road
- → New Hope's Main Drive bridge
- Jeff Road and Jordan Road Roundabout
- Meridianville Bottom Road crossing US
   431
- → Old Hwy 431 crossing US 431
- Sutton Road crossing US 431
- ★ Little Cove Road crossing US 72
- + Research Park Boulevard

# Recreation Connections Access Points

#### Huntsville MPO Bike Plan

#### **Recommended Access**

- Access Points
- Long-Distance Cyclist Input

#### **Previous Proposals**

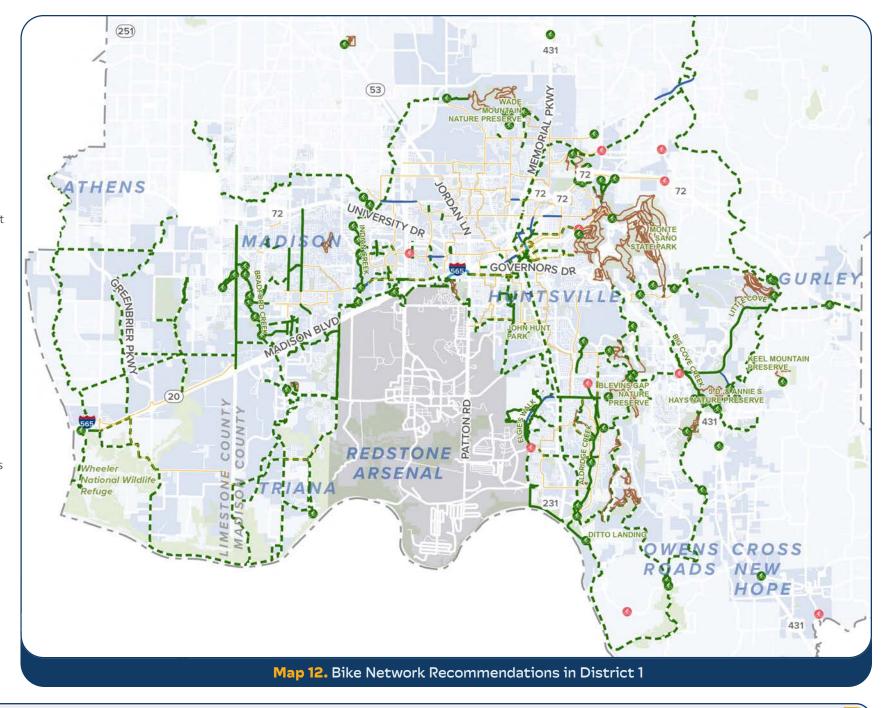
Previously Proposed Shared Use Paths

### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes
- Cycle Tracks
- Bike Routes
- Natural Surface Trails

#### Basemap

- MPO Boundary
- Rural MPO
- Parks/Open Space
- Municipalities
- PopularDestinations
- School
- College





### **Network by Bike Facility Type**

The implementation of the bicycle network will take on various forms depending on the recommended bike facility type. The maps on the following pages illustrate the layers of the network by bicycle boulevards, bike lanes, and shared use paths.

### **Quick Wins: Bicycle** Boulevards

Installing bicycle boulevards, in many cases on already-signed bike routes along low-traffic roads, is a guick win that may only necessitate new traffic calming measures and painted symbols. Bicycle boulevards include the following:

- ★ Max Luther Drive to Oakwood Road
- ♦ North Rainbow
- ★ Lockhardt Road to Trailing Creek Road
- Bike Route 30
- Bike Route 40
- Bike Route 49
- Bike Route 51
- Bike Route 55
- ♦ Bike Route 59
- Bike route 64
- ♦ Bike Route 70
- Bike Route 74
- Lincoya Drive to Lewisburg Drive

### **Bike Lanes**

At the same time, bicycle lanes can be implemented at the time when roads are resurfaced or when a road configuration is possible. Other significant bike lane projects to implement include:

- Mastin Lake Road
- Blue Spring Road
- Triana Boulevard NW

### **Shared Use Paths**

**Side paths**: Madison on Track includes an extensive shared use path network plan along major roadways. Huntsville side paths include East-west connections across Pinhook and Memorial Parkway.

**River Greenways**: Huntsville MPO has numerous planned river greenways that can create recreational as well as commuting options for users of all skill levels.

**Rail Trails**: Aside from the Chase-Elora Rail Project, the L&N rail-with-trail is a visionary project with the potential to bridge the Northern Huntsville Greenway to the Tennessee River.

### **Major Spines**

The proposed bicycle facilities in this plan connect into major walking and bicycling spines that cross the MPO. Major spines under development or envisioned include:

**Singing River Trail**: Provides the statewide east-west route along the Tennessee River with a detour through downtown Huntsville circumnavigating the Arsenal.

**Madison on Track**: Fast-west connections to Athens along Huntsville Browns Ferry Road and Huntsville along Old Madison Pike, North-South link along Balch to Mill and Bradford Creek

**Holmes Avenue:** Cycle tracks connecting UAH with downtown.

**PARC Project**: Connecting Big Spring Park with Lowe Mill across Memorial Parkway and Pinhook Creek.

**Chase-Elora Railway**: Rail-to-trail project stitched together by multiple partners via the North Huntsville, Meek, Alabama A&M, and New Market rail trails.

**Bike the Rocket City** 

### Regional Initiatives & Recommended Bicycle **Boulevards**

### **Huntsville MPO Bike Plan**

#### Recommendation

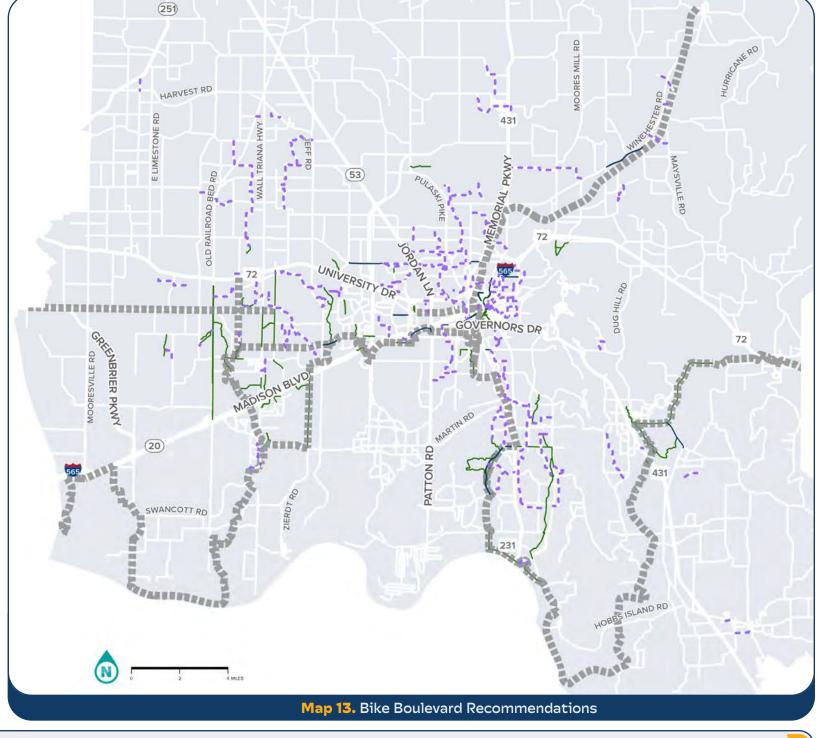
- Bike Boulevards
- Regional Spines

#### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes

#### Basemap

MPO Boundary





### Regional Initiatives & Recommended **Bicycle Lanes**

### **Huntsville MPO Bike Plan**

#### Recommendation

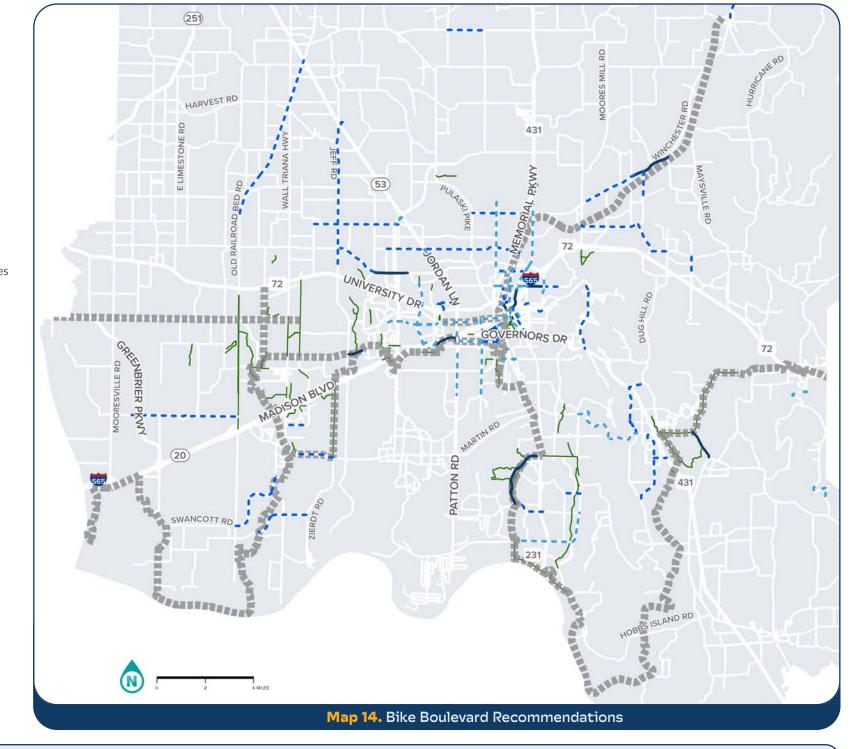
- Bike Lanes
- Cycle Tracks / Separated Bike Lanes
- Regional Projects

### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes

#### Basemap

MPO Boundary



### Regional Initiatives & Recommended **Shared Use Paths**

### **Huntsville MPO Bike Plan**

#### Recommendation

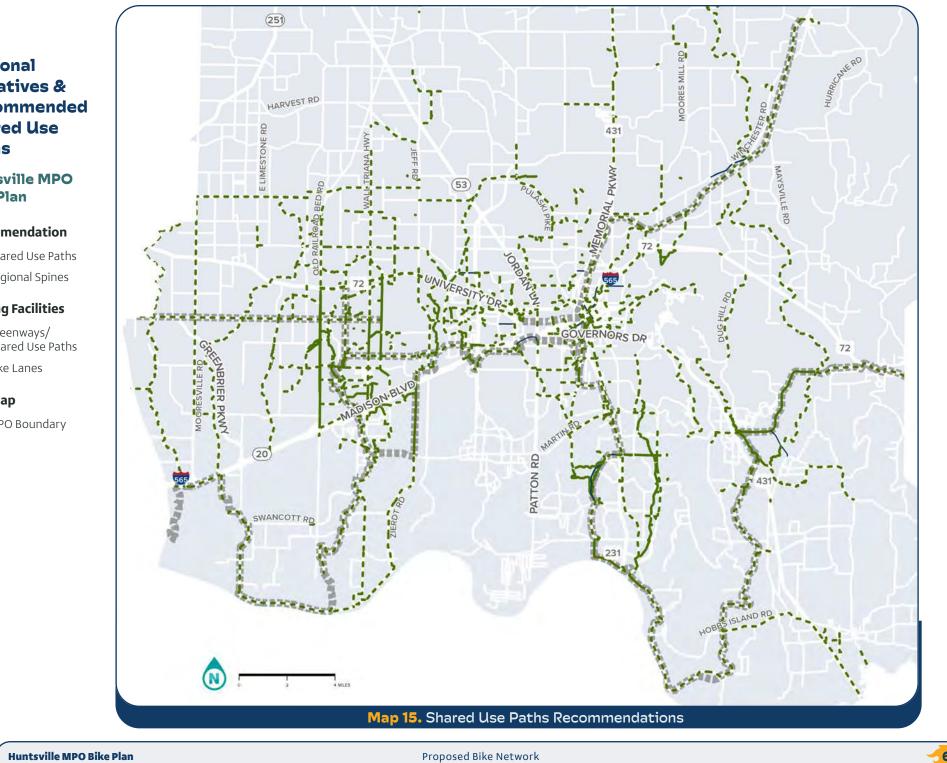
- Shared Use Paths
- ■■■ Regional Spines

### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes

### Basemap

MPO Boundary



### Bicycle Network District 1

### Huntsville MPO Bike Plan

#### Recommendation

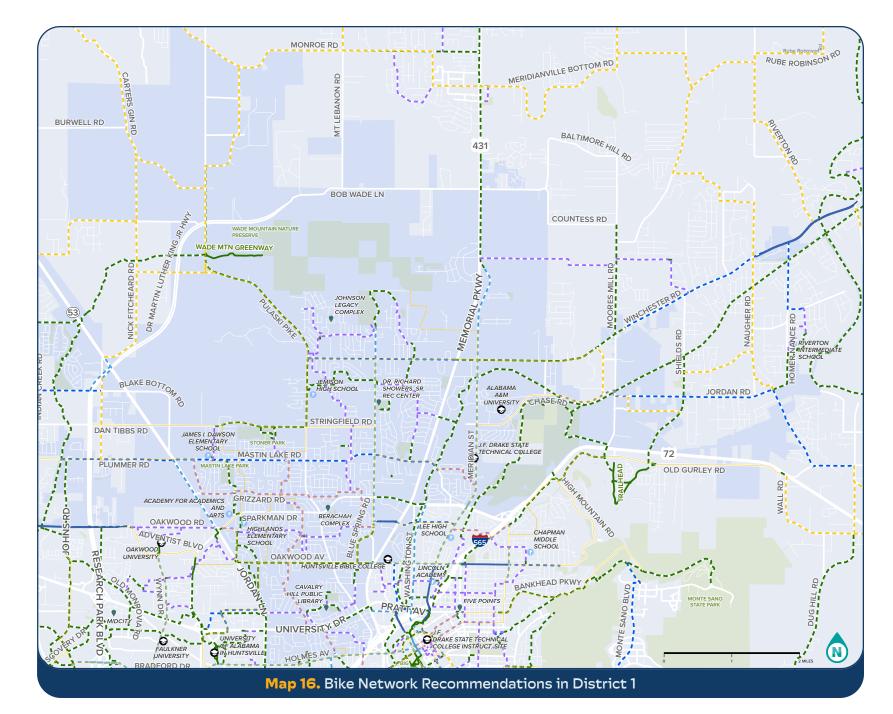
- --- Shared Use Paths
- --- Bike Lanes
- --- Cycle Tracks (Protected Bike Lanes)
- --- Bike Boulevards
- --- Visionary Bike Route
- --- Unassigned Bike Facility TBD

#### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes
- Cycle Tracks
- Bike Routes

#### **Basemap**

- MPO Boundary
- City Council District
- Parks/Open Space
- Municipalities
- Popular Destinations
- School
- College



### Bicycle Network District 2

#### Huntsville MPO Bike Plan

#### Recommendation

- --- Shared Use Paths
- --- Bike Lanes
- --- Cycle Tracks
  (Protected Bike Lanes)
- --- Bike Boulevards
- --- Visionary Bike Route
- --- Unassigned Bike Facility TBD

### **Existing Facilities**

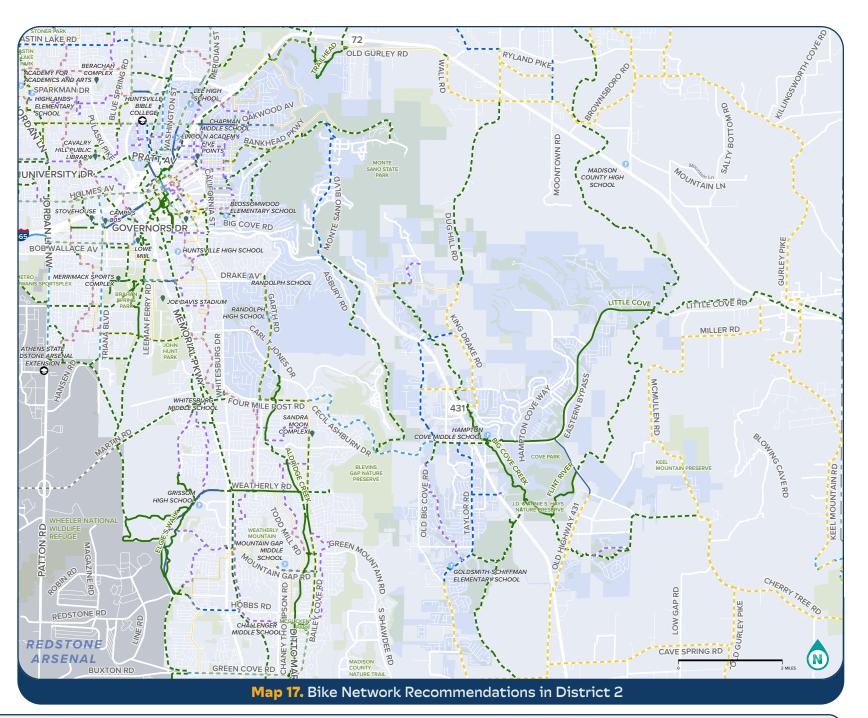
- Greenways/ Shared Use Paths
- Bike Lanes
- Cycle Tracks
- Bike Routes

#### Basemap

- MPO Boundary
- City Council District
- Parks/Open Space
  Municipalities

**Huntsville MPO Bike Plan** 

- Popular Destinations
- School
- College



**Bike the Rocket City** 

# Bicycle Network District 3

### Huntsville MPO Bike Plan

#### Recommendation

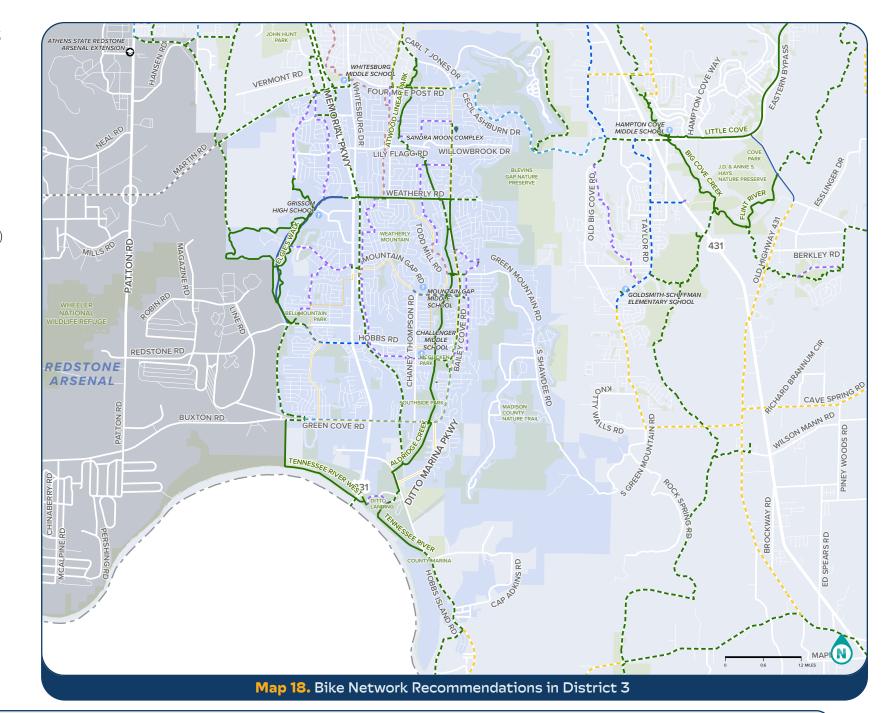
- --- Shared Use Paths
- --- Bike Lanes
- --- Cycle Tracks (Protected Bike Lanes)
- --- Bike Boulevards
- --- Visionary Bike Route
- --- Unassigned Bike Facility TBD

#### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes
- Cycle Tracks
- Bike Routes

#### Basemap

- MPO Boundary
- City Council District
- Parks/Open Space
- Municipalities
- Popular Destinations
- School
- College



# Bicycle Network District 4

#### Huntsville MPO Bike Plan

#### Recommendation

- --- Shared Use Paths
- --- Bike Lanes
- Cycle Tracks (Protected Bike Lanes)
- --- Bike Boulevards
- --- Visionary Bike Route
- --- Unassigned Bike Facility TBD

### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes
- Cycle Tracks
- Bike Routes

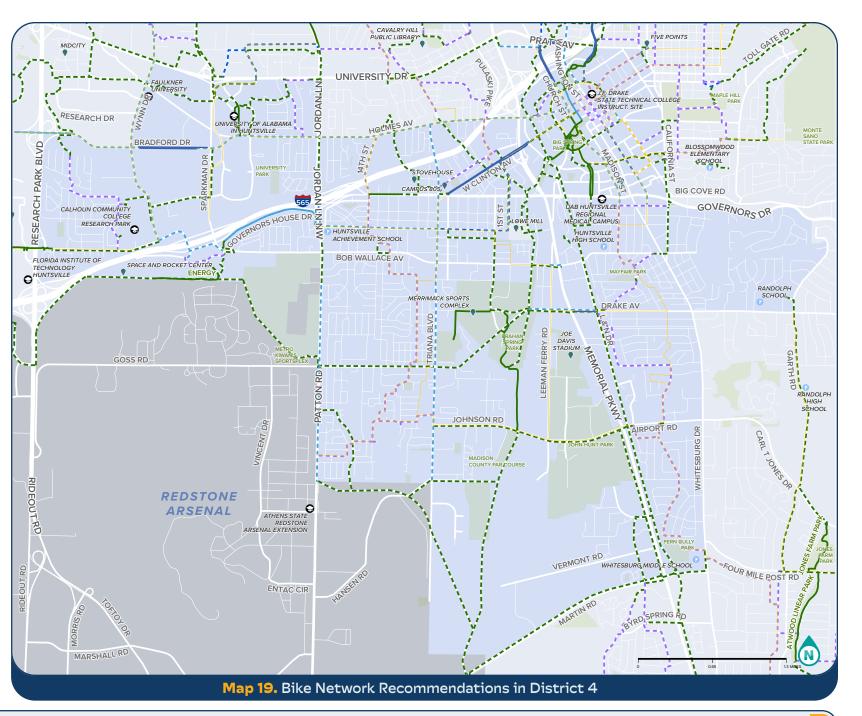
#### Basemap

- MPO Boundary
- City Council District
- Parks/Open Space

  Municipalities

**Huntsville MPO Bike Plan** 

- Popular Destinations
- School
- College





# Bicycle Network District 5

### Huntsville MPO Bike Plan

#### Recommendation

Shared Use Paths

Bike Lanes

Cycle Tracks

(Protected Bike Lanes)

Bike Boulevards

Visionary Bike Route

Unassigned - Bike Facility TBD

#### **Existing Facilities**

Greenways/ Shared Use Paths

— Bike Lanes

Cycle Tracks

Bike Routes

#### Basemap

MPO Boundary

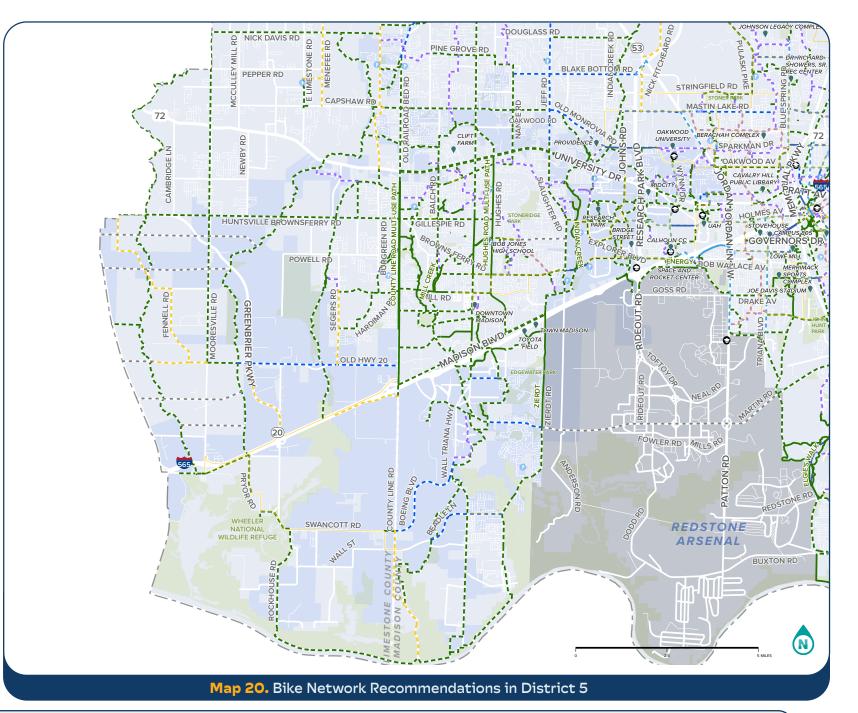
City Council District
Parks/Open Space

Municipalities

Popular Destinations

School

College



# Bicycle Network City of Madison

#### Huntsville MPO Bike Plan

#### Recommendation

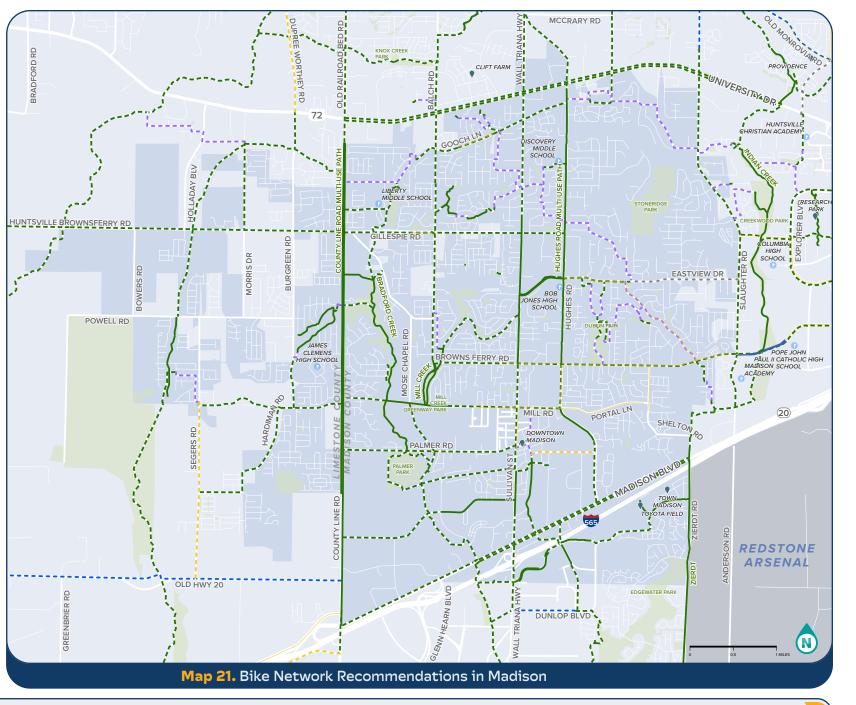
- --- Shared Use Paths
- --- Bike Lanes
- --- Cycle Tracks
  (Protected Bike Lanes)
- --- Bike Boulevards
- --- Visionary Bike Route
- --- Unassigned Bike Facility TBD

### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes
- Cycle Tracks
- Bike Routes

#### Basemap

- MPO Boundary
- City Limits
- Parks/Open Space
- Municipalities
- Popular Destinations
- School
- College





# Bicycle Network Rural MPO

#### Huntsville MPO Bike Plan

#### Recommendation

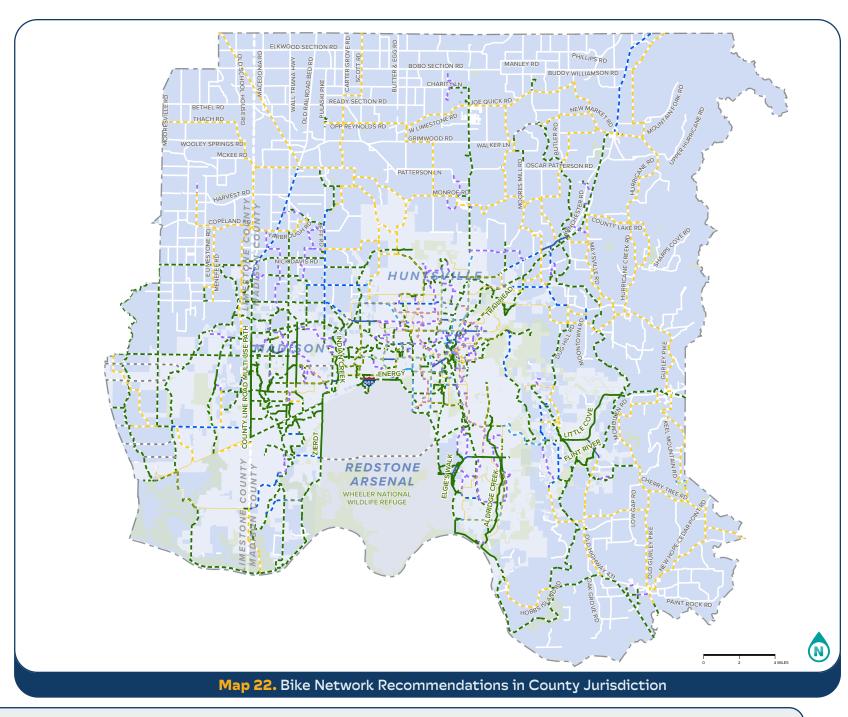
- --- Shared Use Paths
- --- Bike Lanes
- --- Cycle Tracks
  (Protected Bike Lanes)
- --- Bike Boulevards
- --- Visionary Bike Route
- --- Unassigned Bike Facility TBD

#### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes
- Cycle Tracks
- Bike Routes

#### Basemap

- MPO Boundary
- Rural MPO
- Parks/Open Space
- Municipalities
- Popular Destinations
- School
- College



Conceptual Design Projects

# Regional Initiatives

The MPO area includes multiple walking and bicycling spines and major projects under development. When deciding on the locations and corridors for the conceptual design projects, the project team looked for quick-win connections into regional projects that are underway.

Regional Initiatives

#### **Regional Projects**

**Huntsville MPO** 

Holmes Ave

**Bike Plan** 

- Meridian Cycle Tracks
- PARC Project
- Singing River Trail
- Meek Greenway
- Alabama A&M
- Northern Huntsville
- Chase-Elora Rail Trail

#### **Existing Facilities**

- Greenways/
  Shared Use Paths
- Bike Lanes

#### Basemap

MPO Boundary



## **Priority Design Projects**

As part of the bike plan effort, the project team identified six projects for conceptual design that can be implemented quickly with signage, striping, and road reconfigurations. The proposed designs connect into the major regional walking and bicycling spines that cross the MPO. Four locations are located within the City of Huntsville, and two are in the City of Madison. Locations were determined by starting with the prioritization tables, which were then refined during meetings with technical staff to discuss feasibility. The following project designs outline how to implement bicycle lanes and safe crossings at a conceptual level of detail. The next step includes the development of engineering plans to implement these projects.

# Designs & Regional Projects

Huntsville MPO Bike Plan

#### Recommendations

- MPO Designs
- Regional Spines

### **Existing Facilities**

- Greenways/ Shared Use Paths
- Bike Lanes

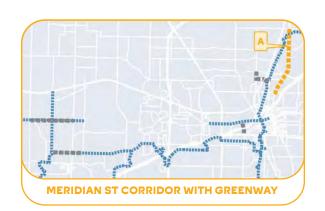
#### Basemap

MPO Boundary



## A. Meridian Street

Start Point	End Point	Segment Length	Functional Class	MPO District
Winchester RD	Pratt Ave	3.8 Miles	Minor Arterial	Huntsville District 1 & 2



#### Recommendation

- Existing Bike Lane
  Shared Use Path
- Raised or Curbed Median
- Meridian Ave Corridor
- 50

Bikeway intersection Improvements



Close or consolidate driveways(s)

New pedestrian crossing



Right-in, Right-out intersection or driveway

Enhanced existing

Pedestrian crossing



Protected intersection



Intersection



Roundabout



## A. Meridian Street

## **Existing Conditions of Priority Corridor**

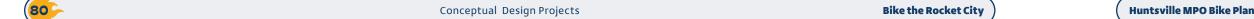
## **Description**

- → Bike Route 71
- → Mostly 5 travel lanes
- Important academic commuter route between Drake State Tech, Lee High School, Huntsville A&M, and Downown Huntsville
- Only way to get North-South between
   Memorial Parkway and Hwy 72

- → Included in the 2020 MPO Bike Plan
- Highly recomended by the Huntsville Bicycle Advisory Safety Comittee for improvements







## A. Meridian Street

## **Existing Conditions of Priority Corridor**



## Constraints

- From Oakwood to Max Luther is part of the Vision Zero High Injury Bike Network
- Possible challenges regarding the backups and level of service decline at intersections
- → Narrow underpass of US-72
- → Traffic volumes are 8k-16k

## Opportunities

- → Bike lanes exist for portions of Meridian Street
- Planned for widening in the 2050 Long
   Range Transportation Plan
- → A bike-way could spur economic growth along the corridor



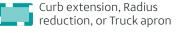




#### Recommendation

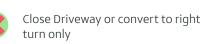
Existing bike lane





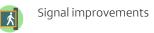






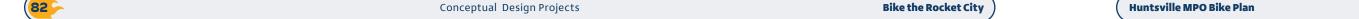




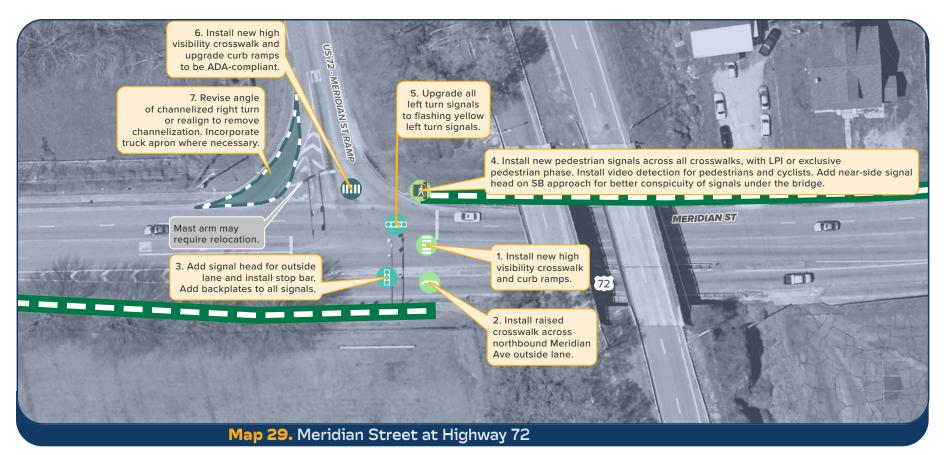




ŧ	STREET	CROSS STREET	NOTES
	Meridian St		Close driveway or convert to right-out only.
	Meridian St	Oakwood Ave	Add LPI to all approaches. Evaluate using video detection for bikes and pedestrians.
	Meridian St	Oakwood Ave	Realign crosswalk.
	Meridian St	Oakwood Ave	Close gas station driveways at intersection.
,	Meridian St	Oakwood Ave	Relocate gas station sign.
	Meridian St	Oakwood Ave	Install new ADA-compliant curb ramp. Realign and widen crosswalk.
	Meridian St		Close driveway or convert to right-in only.
	Meridian St	Oakwood Ave	Realign and widen crosswalk.
	Meridian St	McCormick Dr	Convert intersection to right-in, right-out.
0	Meridian St	Oakwood Ave	Install new ADA-compliant curb ramp. Refresh
1	Meridian St	Oakwood Ave	Remove channelized right turn. Add truck apron to accommodate large vehicles.
2	Meridian St	Oakwood Ave	Install mountable truck apron.







#### Recommendation

Shared use side path

Remove channelization of right turn lane

New traffic signal

Flashing yellow arrow

Enhance existing pedestrian crossing
New pedestrian crossing

Ŕ	Signal improvement
	Raised crosswalk

	#	STREET	CROSS STREET	NOTES
	1	Meridian St	US 72 EB Off-ramp	Install new high visibility crosswalk and curb ramps.
	2	Meridian St	Meridian Ave NB lane	Install raised crosswalk across northbound Meridian Ave outside lane.
ı	3	Meridian St	US 72 EB Off- Ramp	Add signal head for outside lane and install stop bar. Add backplates to all signals.
	4	Meridian St	US 72 EB Off- Ramp	Install new pedestrian signals across all crosswalks, with LPI or exclusive pedestrian phase. Install video detection for pedestrians and cyclists. Add near-side signal head on SB approach for better conspicuity of signals under the bridge.
	5	Meridian St	US 72 EB Off- Ramp	Upgrade all left turn signals to flashing yellow left turn signals.
	6	Meridian St	US 72 EB Off- Ramp	Install new high visibility crosswalk and upgrade curb ramps to be ADA-compliant.
	7	Meridian St	US 72 EB off-ramp	Revise angle of channelized right turn or realign to remove channelization. Incorporate truck apron where necessary.

## **B.** Max Luther Drive

Start Point	End Point	Segment Length	Functional Class	MPO District
Blue Spring Rd	Washington St	0.67 Miles	Major Collector	Huntsville District 1 & 2

## **Existing Conditions of Priority Corridor**

## Description

 Critical east-west connection between Northwest Huntsville and the Meridian Street academic corridor

## /!\ Constraints

- → Intersection with Memorial Parkway
- → ALDOT coordination



## **Opportunities**

- → Direct connection into the future North Huntsville Greenway
- Suitable traffic counts for a comfortable on-road bike facility

#### Recommendation

Roadway reallocation (5-lane to 3-lane)

Roadway reallocation (4-lane to 3-lane)

Roadway reallocation (3-lane to 2-lane)

Separated bike lane Shared use path

Striped or buffered bike lane

**Huntsville MPO Bike Plan** 

Sidewalk

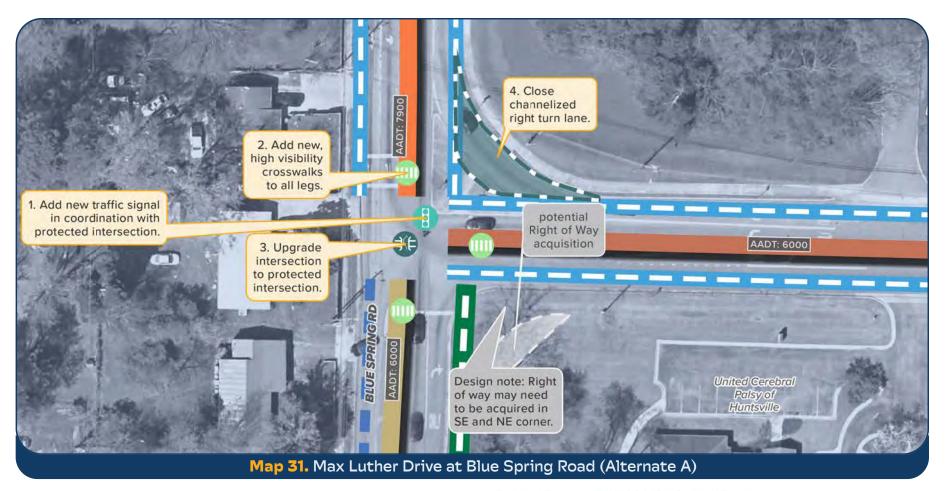


## Max Luther Dr and Blue Spring Rd

Proposed







Conceptual Design Projects

#### Recommendation

Roadway reallocation (5-lane to 3-lane)

Roadway reallocation (4-lane to 3-lane)

Roadway reallocation (3-lane to 2-lane)

Separated bike lane

Shared use pathStriped or buffered bike lane

**Huntsville MPO Bike Plan** 

New pedestrian crossing



Remove channelization of right turn lane

Protected intersection

Potential ROW acquisition

#	STREET	CROSS STREET	NOTES
1	Max Luther Dr	Blue Spring Dr	Add new traffic signal in coordination with protected intersection.
2	Max Luther Dr	Blue Spring Dr	Add new, high visibility crosswalks to all legs.
3	Max Luther Dr	Blue Spring Rd	Upgrade intersection to protected intersection.
4	Max Luther Dr	Blue Spring Rd	Close channelized right turn lane.



#### Recommendation

Roadway reallocation (5-lane to 3-lane)

Roadway reallocation (4-lane to 3-lane)

Roadway reallocation (3-lane to 2-lane) Separated bike laneShared use pathStriped or buffered bike

Round

Potential ROW aquisition

#### # STREET CROSS STREET NOTES

1 Max Luther Dr Blue Spring Rd

Construct single-lane roundabout with truck apron, incorporating shared use path or separated bike lane all the way around. Add raised crosswalks at entry and exit legs of roundabout.

#### 5. Add curb extensions with truck aprons at all corners. Eliminate channelization 1. Add conflict 4. Add curb extension markings across 7. Curb extension to with truck apron to MAX LUTHER intersection. repurpose second left turn accommodate truck ne due to proposed roadway turns as needed AADT: 4800 reallocation on Max Luther on all corners. crosswalk across south Design note: This corner may require a retaining wall and relocation of gas line if 6. Curb extension to sidewalk is to be extended. 3. Add LPI to all approaches; add repurpose second left turn pedestrian signals across south lane due to proposed roadway and west sides of intersection. reallocation on Max Luther. Map 33. Max Luther Drive at Memorial Parkway

Conceptual Design Projects

#### Recommendation

Roadway reallocation (5-lane to 3-lane)

Separated bike lane

**Huntsville MPO Bike Plan** 

Curb extension, Radius reduction, or Truck apron

Remove channelization of right turn lane

Bikew impro

Bikeway intersection improvements



New pedestrian crossing

Signal improvements

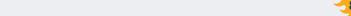


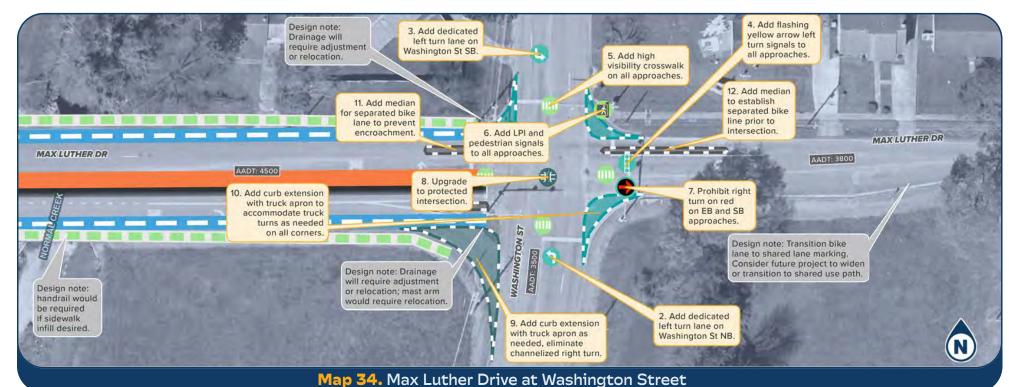
#	STREET	CROSS STREET	NOTES
1	Max Luther Dr	Memorial Pkwy	Add conflict markings across intersection.
2	Max Luther Dr	Memorial Pkwy NB Frontage Road	Add high visibility crosswalk across south and west approaches.
3	Max Luther Dr	Memorial Pkwy	Add LPI to all approaches; add pedestrian signals across south and west sides of intersection.
4	Max Luther Dr	Memorial Pkwy NB Frontage Road	Add curb extension with truck apron to accommodate truck turns as needed on all corners.
5	Memorial Pkwy SB Frontage	Max Luther Dr	Add curb extensions with truck aprons at all corners. Eliminate channelization of right turns.
6	Memorial Pkwy NB Frontage Road	Max Luther Dr	Curb extension to repurpose second left turn lane due to proposed roadway reallocation on Max Luther.
7	Memorial Pkwy SB Frontage	Max Luther Dr	Curb extension to repurpose second left turn lane due to proposed roadway reallocation on Max Luther.

Conceptual Design Projects

Bike the Rocket City







#### Recommendation

Roadway reallocation (5lane to 3-lane)

Separated bike lane

Curb extension, Radius reduction. or Truck apron

Remove channelization of right turn lane

Raised or curbed median or island

## Dedicated left turn lanes Flashing yellow arrow crossing Prohibit right turn on red

Sig	nal improvements	
-----	------------------	--

New pedestrian crossing

Protected intersection

#	STREET	CROSS STREET	NOTES
1	Max Luther Dr	Greenway crossing	Add new pedestrian crossing for greenway with refuge island, RRFB or signal with bike signals, and high visibility crosswalk.
2	Max Luther Dr	Washington St	Add dedicated left turn lane on Washington St NB.
3	Max Luther Dr	Max Luther Dr	Add dedicated left turn lane on Washington St SB.
4	Max Luther Dr	Washington St	Add flashing yellow arrow left turn signals to all approaches.
5	Max Luther Dr	Washington St	Add high visibility crosswalk on all approaches.
6	Max Luther Dr	Washington St	Add LPI and pedestrian signals to all approaches.
7	Max Luther Dr	Washington St	Prohibit right turn on red on EB and SB approaches
8	Max Luther Dr	Washington St	Upgrade to protected intersection.
9	Max Luther Dr	Washington St	Add curb extension with truck apron as needed, eliminate channelized right turn.
10	Max Luther Dr	Washington St	Add curb extension with truck apron to accommodate truck turns as needed on all corners.
11	Max Luther Dr	Washington St	Add median for separated bike lane to prevent encroachment.
12	Max Luther Dr	Washington St	Add median to establish separated bike line prior to intersection.

## Max Luther Drive at Future North Huntsville Greenway





## C. Blue Spring Road

Start Point	End Point	Segment Length	Functional Class	MPO District
Sparkman Dr	Greenhill Dr	0.44 Miles	Major Collector	Huntsville District 1

## **Existing Conditions of Priority Corridor**

Description

Critical north-south connection to Max Luther Drive bike lanes and future bike facilities on Sparkman Drive



Constraints

+ N/A

## Opportunities

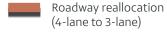
→ Suitable traffic counts for a comfortable onroad bike facility

BLUE SPRING RD CORRIDOR WITH BIKE LANES

→ Protected intersection or roundabout at Blue Spring Road and Max Luther Drive

#### Recommendation

Roadway reallocation (5-lane to 3-lane)



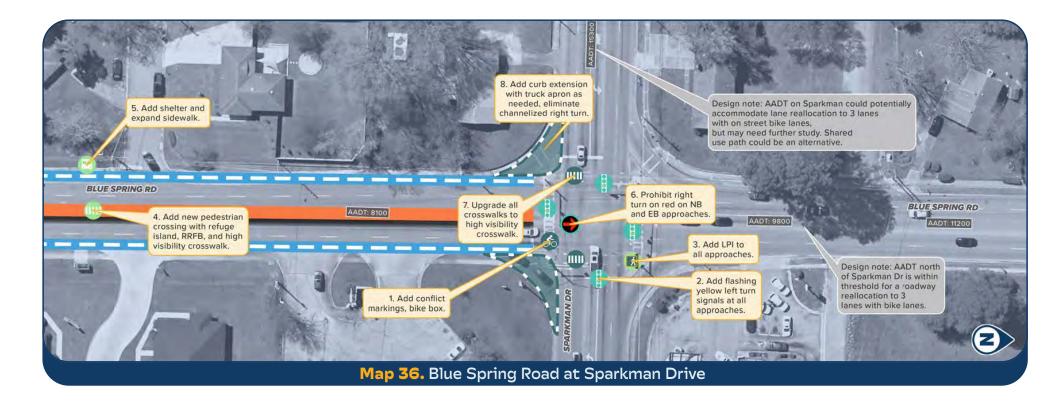
Roadway reallocation (3-lane to 2-lane)

Separated bike lane

Shared use path

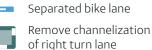
Striped or buffered bike lane





#### Recommendation

Roadway reallocation (5lane to 3-lane)







Prohibit right turn on red



New pedestrian crossing



Enhance midblock pedestrian



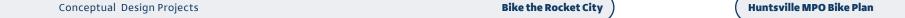
Bikeway intersection improvements



Transit stopimprovements

#	STREET	CROSS STREET	NOTES
1	Blue Spring Rd	Sparkman Dr	Add conflict markings, bike box.
2	Sparkman Dr	Blue Spring Rd	Add flashing yellow left turn signals at all approaches.
3	Blue Spring Rd	Sparkman Dr	Add LPI to all approaches.
4	Blue Spring Rd	Gamma Cir	Add new pedestrian crossing with refuge island, RRFB, and high visibility crosswalk.
5	Blue Spring Rd	Gamma Cir	Add shelter and expand sidewalk.
6	Blue Spring Rd	Sparkman Dr	Prohibit right turn on red on NB and EB approaches
7	Blue Spring Rd	Sparkman Dr	Upgrade all crosswalks to high visibility crosswalk.
8	Blue Spring Rd	Sparkman Dr	Add curb extension with truck apron as needed, eliminate channelized right turn.





## **D. Triana Boulevard**

Start Point	End Point	Segment Length	Functional Class	MPO District
Holmes Ave	Hall Ave/4th Ave	0.56 Miles	Major Collector	Huntsville District 4
		• • • •		

## **Existing Conditions of Priority Corridor**



!\ Constraints

Critical north-south connection to Holmes Ave future Complete Streets improvements and Hall Avenue bicycle boulevard



## Opportunities

- → Suitable traffic counts for a comfortable onroad bike facility
- ★ Connection to Stovehouse and Campus 805

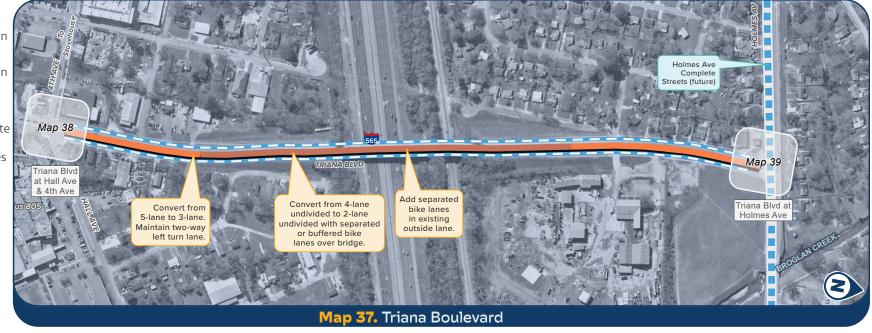
#### Recommendation

Roadway reallocation

Roadway reallocation (4-lane to 3-lane)

Separated bike lane

Holmes Ave Complete Streets Project with Separated Bike Lanes



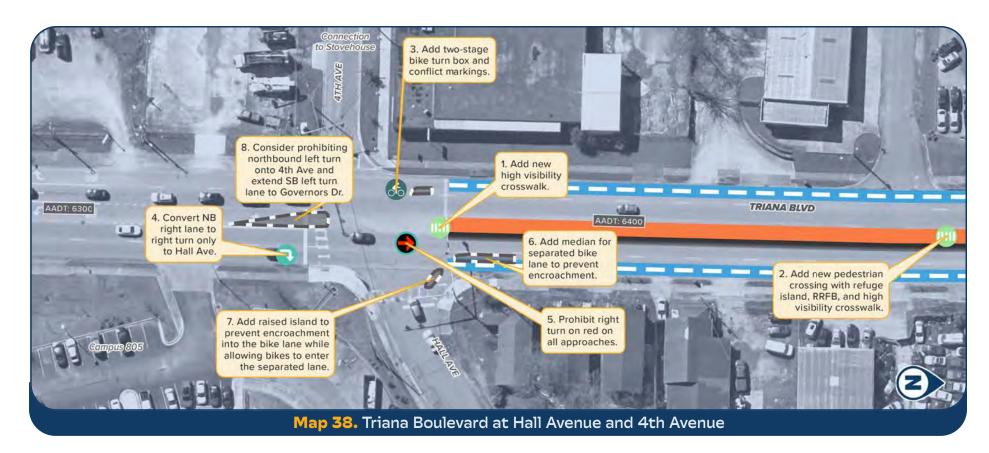
## **Triana Blvd and Hall Ave**

Huntsville MPO Bike Plan









#### Recommendation

Roadway reallocation (5-lane to 3-lane)

Separated bike lane

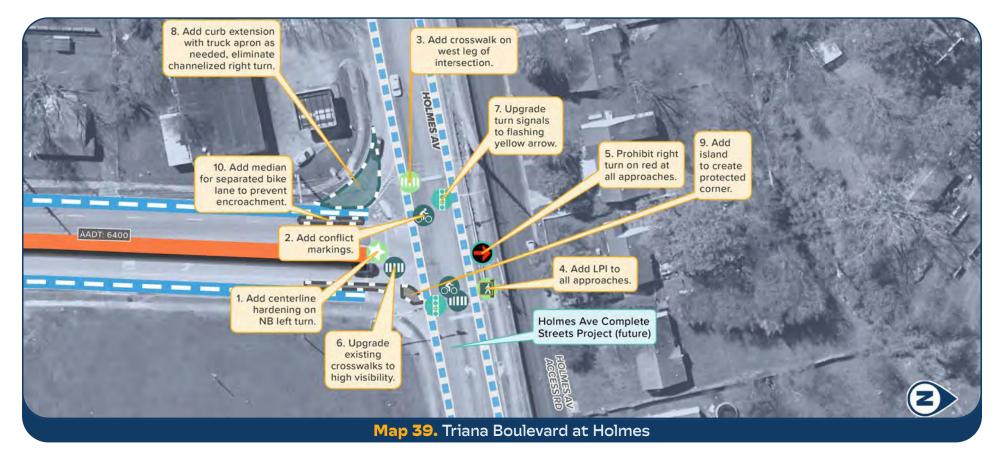
Raised or curbed median or island



Bikeway intersection improvements

New pedestrian crossing

#	STREET	CROSS STREET	NOTES
1	Triana Blvd	Hall Ave	Add new high visibility crosswalk.
2	Triana Blvd	3rd Ave	Add new pedestrian crossing with refuge island, RRFB, and high visibility crosswalk.
3	Triana Blvd	Hall Ave	Add two-stage bike turn box and conflict markings
4	Triana Blvd	Hall Ave	Convert NB right lane to right turn only to Hall Ave
5	Triana Blvd	Hall Ave	Prohibit right turn on red on all approaches.
6	Triana Blvd	Hall Ave	Add median for separated bike lane to prevent encroachment.
7	Triana Blvd	Hall Ave	Add raised island to prevent encroachment into the bike lane while allowing bikes to enter the separated lane.
8	Triana Blvd	Hall Ave/4th Ave	Consider prohibiting northbound left turn onto 4th Ave and extend SB left turn lane to Governors Dr.



Conceptual Design Projects

#### Recommendation

Roadway reallocation (5-lane to 3-lane)



Remove channelization of right turn lane



Raised or curbed median or island



Holmes Ave Complete Streets Project with Separated Bike Lanes



Flashing yellow arrow crossing



Prohibit right turn on red



Signal improvements



Enhance midblock pedestrian



Bikeway intersection improvements



Centerline Hardening

#	STREET	CROSS STREET	NOTES
1	Triana Blvd	Holmes Ave	Add centerline hardening on NB left turn.
2	Triana Blvd	Holmes Ave	Add conflict markings.
3	Triana Blvd	Holmes Ave	Add crosswalk on west leg of intersection.
4	Triana Blvd	Holmes Ave	Add LPI to all approaches.
5	Triana Blvd	Holmes Ave	Prohibit right turn on red at all approaches.
6	Triana Blvd	Holmes Ave	Upgrade existing crosswalks to high visibility.
7	Triana Blvd	Holmes Ave	Upgrade turn signals to flashing yellow arrow.
3	Triana Blvd	Holmes Ave	Add curb extension with truck apron as needed, eliminate channelized right turn.
Э	Triana Blvd	Holmes Ave	Add island to create protected corner.
10	Triana Blvd	Holmes Ave	Add median for separated bike lane to prevent encroachment.

Bike the Rocket City **Huntsville MPO Bike Plan** Conceptual Design Projects



## E. Gillespie Road/Huntsville Browns Ferry Road

Start Point	End Point	Segment Length	Functional Class	MPO District
County Line Rd	Wall Triana Hwy	2.04 Miles	Minor Collector	City of Madison

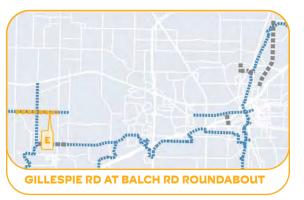
## **Existing Conditions of Priority Corridor**



- Gillespie Rd Shared Use routes are planned in the Sweet Trails Alabama Plan, 2021 Alternate Modes Plan, and the 2022 Greenway Master Plan
- → Balch Rd is in Madison on Track 2045

## /!\ Constraints

- ★ Changes in terrain on south side
- ★ No pedestrian crossings
- ★ Require coordination with Madison County to go south of the Roundabout



## **Opportunities**

→ Planned for widening in the 2050 Long Range Transportation Plan

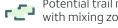
## Recommendations

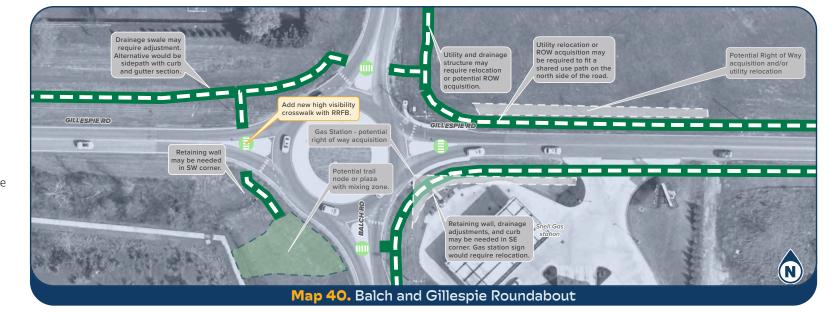
Shared use paths



Parcel ROW Acquisition

### **Existing Conditions**





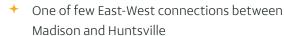
## F. Old Madison Pike/Browns Ferry Road

Start Point	End Point	Segment Length	Functional Class	MPO District
Balch Rd	Hughes Rd	1.41 Miles	Major Collector	City of Madison

## **Existing Conditions of Priority Corridor**



## Description



- ↑ Part of the 2020 MPO Bike Plan as bike route
- → 3, 4 and 5 lanes

**Huntsville MPO Bike Plan** 



## /!\ Constraints

- Old Madison Pike has about 15k cars a day
- Limited right of way in places





→ Indian Creek Greenway and Mill Creek Greenway connector

#### Recommendations

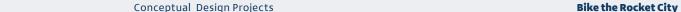
Shared use paths

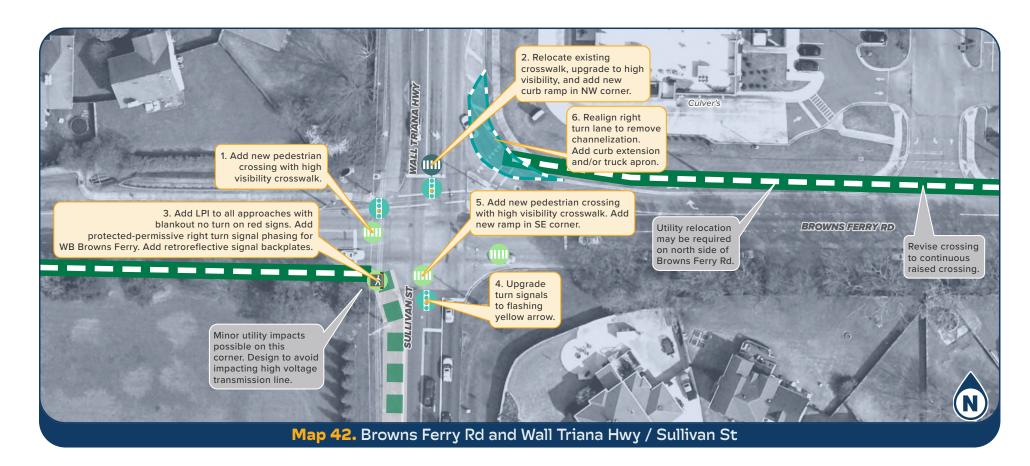




Conceptual Design Projects

Map 41. Old Madison Pike / Browns Ferry Rd





#### Recommendations

Shared use paths

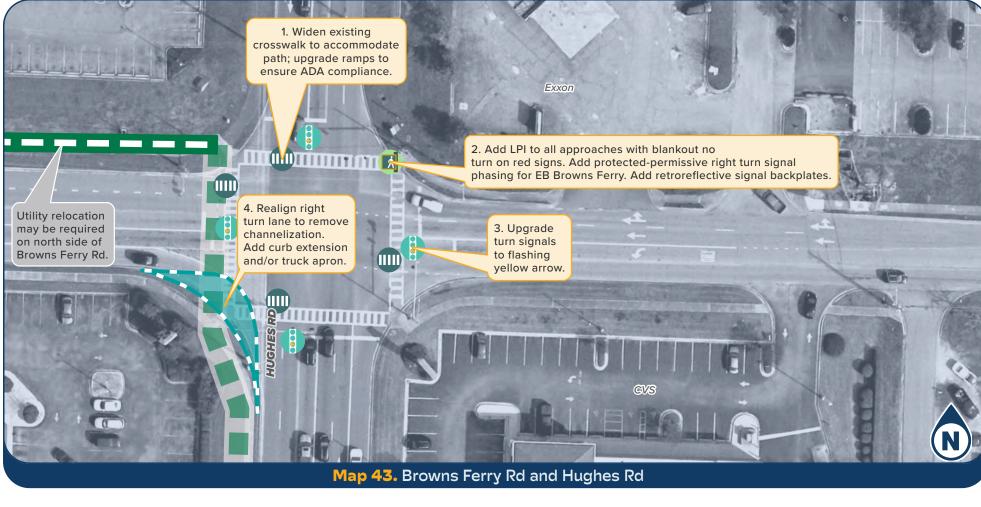
Proposed greenway corridor

Curb extension, Radius reduction, or Truck apron

New Pedestrian Crossing Enhanced existing pedestrian crossing Flashing yellow arrow signals

Signal Improvements

#	STREET	CROSS STREET	NOTES
1	Browns Ferry Rd	Sullivan St	Add new pedestrian crossing with high visibility crosswalk.
2	Browns Ferry Rd	Sullivan St	Relocate existing crosswalk, upgrade to high visibility, and add new curb ramp in NW corner.
3	Browns Ferry Rd	Sullivan St	Add LPI to all approaches with blankout no turn on red signs. Add protected-permissive right turn signal phasing for WB Browns Ferry. Add retroreflective signal backplates.
4	Browns Ferry Rd	Sullivan St	Upgrade turn signals to flashing yellow arrow.
5	Browns Ferry Rd	Sullivan St	Add new pedestrian crossing with high visibility crosswalk. Add new ramp in SE corner.
6	Browns Ferry Rd	Wall Triana Hwy	Realign right turn lane to remove channelization. Add curb extension and/or truck apron.



Conceptual Design Projects

#### Recommendations

Shared use paths

Proposed greenway corridor

Curb extension, Radius reduction, or Truck apron



Enhanced existing pedestrian crossing



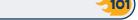




Signal Improvements

#	STREET	CROSS STREET	NOTES
1	Browns Ferry Rd	Hughes Rd	Widen existing crosswalk to accommodate path; upgrade ramps to ensure ADA compliance.
2	Browns Ferry Rd	Hughes Rd	Add LPI to all approaches with blankout no turn on red signs. Add protected-permissive right turn signal phasing for EB Browns Ferry. Add retroreflective signal backplates.
3	Browns Ferry Rd	Hughes Rd	Upgrade turn signals to flashing yellow arrow.
4	Browns Ferry Rd	Hughes Rd	Realign right turn lane to remove channelization. Add curb extension and/or truck apron.







## **Design and Infrastructure**

Establishing a safe, comfortable, and connected bicycling network will require bike lanes, cycle tracks, side paths, and intersection improvement to encourage bicycling trips by residents and visitors and support bicycling to everyday destinations. Providing support elements, including bike parking and storage at popular destinations and bike racks on buses, signals that bicycling is an option to get around town and makes it a convenient transportation option.



## Strategy 1:

**Huntsville MPO Bike Plan** 

### Use the latest design guidance to support safe and comfortable bike facilities

- Use innovative designs for bike lanes, cycle tracks, and bicycle boulevards and implement safety improvements using guidance from organizations such as the National Association of City Transportation Officials (NACTO) and the Institute of Transportation Engineers (ITE), as well as applicable state and federal design guidelines, including the Safe Systems Approach.
- Continue to add bike detection at intersections and explore new technologies.
- Incorporate bike boxes, striping, and painting at intersections to signal bike crossings.
- Design for appropriate and context-sensitive safe crossings and visibility of bicyclists at high-volume intersections.
- Install traffic calming along bike routes to create bicycle boulevards.
- Continue to develop priority segments of the Greenway Master Plan and coordinate top priority bike segments with the yearly plan update.



Broglan Branch could serve as a greenway connection between the Clinton bike lanes and the future Holmes Complete Streets improvements. Developing future greenway connections throughout the MPO will continue to build out a safe bicycling network.



The existing Bike Route #59 crosses Airport Road. Improving the crossing with bike detection, striping, and pavement would increase awareness among drivers of this important crossing.



## Strategy 2:

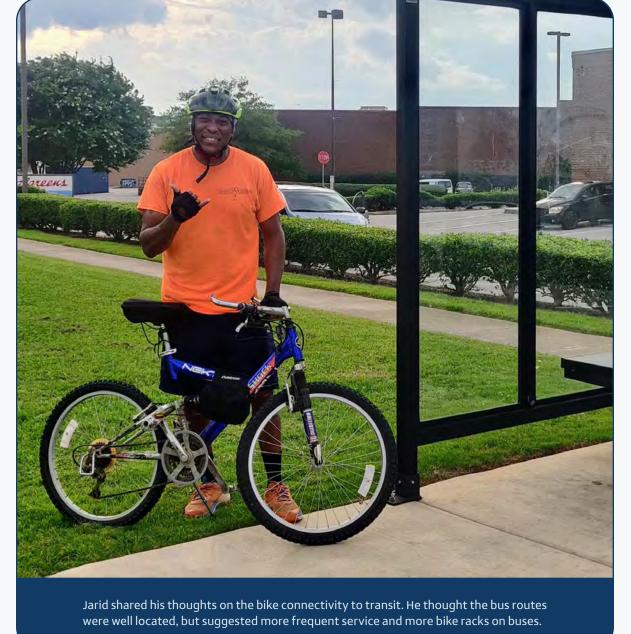
## Provide bike parking and support elements

- Explore funding or subsidy opportunities to support a bike parking retrofit program, enabling existing private developments to install or upgrade bicycle parking facilities. A bike parking request program could also be established to identify high-demand areas and fund the installation of public bike racks or lockers. Funding sources may require that these facilities be located in publicly accessible spaces to ensure broad community benefit.
- Collaborate with school boards to establish school bike parking and fund bike parking through new school developments.
- ★ Add bike parking and fix-it station improvement request forms on MPO agency websites where residents can request bike parking to be placed at destinations of their choice.





City of Madison staff celebrate the installation of two new bike repair stations located in Town Madison at the Wellness Center and near Toyota Field. These are located along the Singing River Trail and support cyclists when they need to fix a flat, adjust brakes, or tighten bolts. (Photo source: City of Madison)



## Strategy 3:

### Integrate the bike network with transit

- ★ Locate and prioritize bike-ways that safely facilitate first- and last-mile connections to transit.
- ★ Install secure long-term bicycle parking at transit stations.
- Work with Orbit and transit providers throughout the MPO to increase the amount of buses with racks that accommodate three bicycles.

## Strategy 4:

## Provide wayfinding and signage

- → Develop and implement a comprehensive wayfinding signage system to improve navigation for cyclists, building on the signage elements already in place. Signage could include distance markers and vicinity maps highlighting major destinations and multimodal routes (up to three miles for biking).
- Expand the bike network system with increased route signing.

Policy and Program Recommendations **Huntsville MPO Bike Plan** Bike the Rocket City Policy and Program Recommendations

## Safety

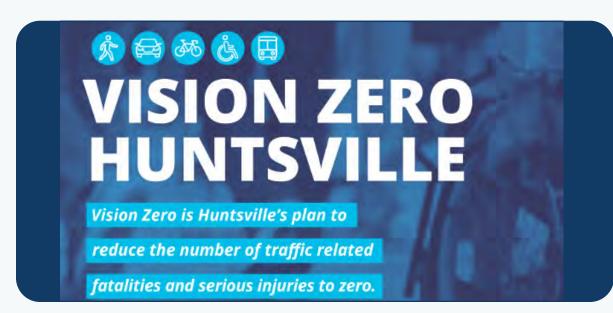
The bike plan envisions a safe system of bike facilities that offers options to bike to everyday destinations. Bicyclists are some of the most vulnerable road users and require safe roadway corridors and intersection crossings. There are efforts underway in the region to address safety. To continue to grow the bike network and address safety concerns, collaborating with safety initiatives and building a Safe Systems approach for all roadway users will help implement a safe bike network. Establishing an MPO-wide Safe Routes to School (SRTS) program will connect students to schools through safe routes and education.

## **Strategy 1:**

# Collaborate with the Vision Zero effort and establish a regional Safe Systems approach

- → Integrate network development priorities with targeted safety enhancements, ensuring alignment with Vision Zero Huntsville initiatives, public outreach, and regional initiatives. Regular coordination with Vision Zero Huntsville will support a unified, data-driven approach to community engagement and safety education.
- Establish an MPO-wide safety initiative to comprehensively address safety for all modes of travel. As the Huntsville region continues to grow, there is an opportunity

- to adopt a Safe Systems Approach for all roadway users on new roadways and developments.
- Fund safety education programs for people driving, walking, and biking that encourage safe behaviors.
- Create a template resolution authorizing school zone speed limits as low as 15 mph for MPO agencies to adopt.
- Monitor crash factors and provide targeted multimodal education on transportation safety best practices.



## **Strategy 2:**

# Integrate a Safe Systems approach to roadway design

- Collaborate with traffic engineering and local agency departments to develop a bike safety warrants approach to identify when and why bike safety improvements are necessary and proactively implement safety countermeasures along corridors with bike facilities and intersections with bike crossings.
- Track and evaluate bike crashes and create a database for residents to record near misses.

## Strategy 3:

## Establish a Safe Routes to Schools (SRTS) program

- Apply for Safe Streets and Roads for All (SS4A) funding to conduct SRTS planning.
   Focus SRTS planning efforts along and near HIN corridors around schools.
- Collaborate with school representatives to identify key student travel routes and pursue funding opportunities to expand the Huntsville region's bikeway network in proximity to schools. Coordinate safety outreach initiatives to enhance messaging and effectively engage students and families through school-based channels.
- Identify and prioritize pedestrian and bicycle safety improvements in the Capital Improvement Program (CIP), focusing on areas near schools.
- Support school districts by providing bicycle racks to public schools or expanding bicycle parking where additional capacity is needed.
- Implement traffic calming and speed reduction measures to promote safer driving behavior in school zones.

# **Promotion, Education, and Programs**

Building the bike network infrastructure will be key to creating a bikefriendly region. At the same time, increased awareness of bicycling as a form of transportation and educational programs encourage and support bicycling as an attractive, fun, and convenient way to get around. Education for motorists and bicyclists and supportive programs create a culture that outlines safe behavior and bridges gaps between various road users.

## Strategy 1:

# Promote biking through encouragement and programs

- Establish a Bicycle Friendly Business Program and supporting events like Bike to Work
   Day to encourage active transportation.
   The MPO and its partner agencies can lead by example by promoting alternative commuting options for its own employees.
- Collaborate with the Bicycle Advisory
  Safety Committee, Spring City Cycling Club,
  and other bike organizations to promote
  National Bike to Work Day and International
  Bike to School Day, and others. Support
  their efforts through promotion on agency
  communication outlets, press releases, and
  other media.
- Offer financial incentives for individuals who choose to walk or bike instead of driving during a designated period. Additionally, non-monetary rewards—such as entry into a prize drawing—can be effective in encouraging participation.
- Collaborate with Mid City, the Orion, the Von Braun Center, Toyota Field, and other major event locations to promote biking to major

- events and create incentives. Partner with local bike shops to provide designated routes and rental bicycles.
- Encourage bike commuters to record their trips on Strava and create an incentive to record the highest number of trips or mileage traveled. Create social media content to promote the program.





The City of
Huntsville's See and
Be Seen program
provides important
guidance regarding
safe biking and links
to the current state
and local ordinance.



## **Strategy 2:**

# Develop an educational program for bicyclists and drivers

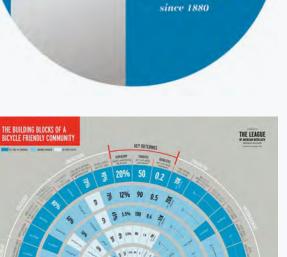
- Sponsor or host a range of adult, family, and youth bicycling skills classes. Partner with the YMCA, school districts, Spring City Cycling Club, and other partners to create a bike-focused curriculum.
- Develop a driver education program and safety campaign to educate drivers when, where, and how to look for bicyclists.
- → Continue promotion of the City of Huntsville's "See and Be Seen" program and expand the program's reach across the MPO. Consider promotion of the website and resources through social media engagement.

**Huntsville MPO Bike Plan** 

## Strategy 3:

# Promote the Huntsville MPO as a bicycle friendly community

- The Huntsville MPO partner agencies can pursue a Bicycle Friendly Community designation through the League of American Bicyclists, which recognizes cities that actively promote bicycling and safety. The application process and feedback serve as valuable tools for evaluating progress and enhancing bike-related education and encouragement efforts.
- Collaborate with the City of Huntsville, City of Madison, and Madison County to create a bike-focused page on their websites and create promotional materials such as bike maps.



## **Equal Access for All**

The Huntsville MPO region seeks to expand the bike network to provide essential transportation and access to recreation to all residents. Hearing from residents in underserved communities and building trust will be essential to understanding community members' needs. By identifying gaps in the bike network and using community engagement, the MPO can strategically provide bike facilities in communities that may rely on bicycling to access iobs, healthcare, services, recreation, and education.



At the yearly Bikes or Bust event, local radio talk show host Mojo Jones is lifted into a platform in the air off Memorial Parkway to collect bikes for kids in foster care at Christmas. Volunteers, including the Army National Guard, support by assembling bicycles. In 2023, the event collected 850 bicycles.

## **Strategy 1:**

## Provide safe and highquality bike infrastructure in underserved communities

- Create a community ambassador program that provides information for local leaders to gather information from residents about where bicycling infrastructure is needed.
   Provide compensation to local ambassadors to host meetings and share feedback from their communities.
- Track where bike facilities are being implemented and ensure that projects are distributed throughout the MPO.

## **Strategy 2:**

# Provide resources to the underserved population

- Create a program to provide bikes to students in underserved communities.
- Establish a bike donation program to provide families in underserved communities with bicycles, helmets, locks, and lights.
- Subsidize or provide free bicycle equipment to residents who qualify for federal or local assistance programs. Create a rebate program for the purchase of e-bikes for lowincome residents.
- Provide transit passes to residents in underserved communities and provide resources to show how to connect to essential destinations through biking and transit.

## **Policy Recommendations**

# **Commitment to Plan Implementation**

As a first step, a way to demonstrate commitment will be plan adoption by MPO partner agencies and the addition of this plan to major comprehensive planning documents including Madison on Track and the City of Huntsville's Big Picture Plan. Adoption by the City of Huntsville, City of Madison, Town of Triana, and Town of New Hope City Councils and the Madison County Commission supports plan implementation and future resources.

## **Supportive Policy**

- Support all MPO jurisdictions and groups with creating and adopting Complete
   Streets and Vision Zero policies and targets.
  - \* Work with local agency departments to create a Complete Streets checklist for projects at various stages (new construction, reconstruction, resurfacing, and rehabilitation.
- Support the development of a policy to include shared-use paths, sidewalks, and bike-ways as part of development agreements.

- Require bike parking and storage at schools, libraries, and other public services.
- Create bicycle and pedestrian connectivity ordinances/cul-de-sac greenway
   easements to facilitate neighborhood connections between dead end streets and cul-de-sacs. Assess and update subdivision regulations as needed.
- Collaborate with Madison County to identify context-sensitive **road shoulder requirements** with roads that have anticipated demand for bicycle travel.
- Require large-scale new developments to include pedestrian and bicycle counts as part of their transportation assessments.
   Broaden traffic data collection efforts by:
- \* Conducting pre- and post-project counts of pedestrian, bicycle, and vehicle activity on all roadway improvement projects.
- \* Exploring the use of **automated counting technologies** to monitor key pedestrian and bicycle corridors. These technologies—such as in-pavement loop detectors for bicycles and infrared sensors for shared-use paths—can provide accurate, continuous data to support planning and evaluation efforts.

## **Electric Bikes**

Electric bikes (e-bikes) are continually growing in popularity and offer residents and visitors who face health challenges and other disabilities the ability to ride a bike and travel farther distances. Some cities, including Atlanta, offered rebates in 2024 between \$1.500 to \$2.000 to assist low-income residents purchase an e-bike. At the same time, bikes with fast speeds do create the potential for user conflicts, especially on popular shared use paths. This can be proactively addressed by signage, bike path user education, and policy. Develop an electric bike (e-bike) policy that outlines speed limits, off limit riding zones, helmet requirements, and any limitations on the type of e-bike (Class 1, 2, and 3) on streets and paths.



Photo source: People for Bikes

## Maintenance

Ensure regular maintenance of sidewalks, bike-ways, and trails through maintenance agreements to enhance user experience, safety, and comfort.

- Collaborate with MPO partners to create a maintenance schedule and checklist for bike lanes and facility maintenance.
- Create an online public reporting system (similar to see SeeClickFix program) to provide the public with a way to report bike facilities in need of maintenance.

## Signage maintenance

- Create an inventory of existing signage and record condition and year installed. Establish a system to update the inventory list biannually and inspect signage.
- + Establish a checklist for inspecting signage.



### Road sweeping

- Check maintenance agreements with ALDOT and partner agency maintenance policies to ensure roadway sweeping includes bike lanes.
- On roads with wide shoulders and those designated as bike routes, such as Cecil Ashburn Drive, check that roadway maintenance includes shoulder sweeping and regular landscape maintenance to keep the shoulder clear of grass and vegetation.



The green bike lane paint at the Clinton Ave at the Memorial Parkway Southbound ramp is worn and shows signs of repeated stopping and breaking. Bike lane striping will need maintenance on an as-needed basis, especially near intersections.

**Huntsville MPO Bike Plan** 

### Repaving

- Ensure the bike detection is functional after repaving and re-paint the bike detection symbols.
- Repave and restripe bike lanes and intersection striping. Assess the condition of bike lane striping at least annually.



Recent repaving at the intersection of Governors Drive and Gallatin Street. As part of repaving efforts, check if bike detection symbols need to be repainted and the bike detection is working properly.



Uneven roadway patching can cause hazards for riders in the bike lane.

# **Evaluation Programs and Performance Tracking**

# **Project Effectiveness and Communication:**

- Conduct before and after studies of new bicycle and pedestrian facilities to measure effectiveness.
- Measure bike counts. Utilize a variety of data collection methods, such as automated and mobile counters. This approach will generate long-term data on bicycle activity at specific locations and help evaluate the impact of changes to the community's roadway and bikeway networks.
- Gather testimonials from bicyclists. Share success stories through media outlets and with bike advocacy organizations.

## **Safety Concerns**

- Annually assess where, when, and why bike crashes are happening.
- Identify if bike crash trends are decreasing and update project priorities to reflect safety needs.
- Update the bike HIN with yearly data from data from the ALDOT CARE database.



# Data Gathering and Yearly Assessment

- Develop an annual or semi-annual Pedestrian and Bicycle Report Card to monitor progress toward the goals, policies, and action items outlined in this Plan. This report should incorporate data from community and workforce surveys, pedestrian and bicycle counts, and summaries of collision and hospital records to provide a comprehensive overview of active transportation trends and safety.
- Gather Strava Metro data to assess where bike commuting trips are happening.

# **Project Tracking and Strategic Planning**

- Create an online map with the bike network and bi-annually update the map with completed projects or adjusted segments.
- → Share bike facility existing and planned facilities GIS data between the City of Huntsville, City of Madison, Madison County, and towns.





## We're in this together!

+

To establish a safe. comfortable, and connected bicycling network, it will require bike lanes, cycle tracks, side paths, and intersection improvement to encourage bicycling trips by residents and visitors and support bicycling to everyday destinations. Providing support elements, including bike parking and storage at popular destinations and bike racks on buses, signals that bicycling is an option to get around town and makes it a convenient transportation option.

## **Huntsville MPO Agencies**

City of Huntsville
City of Madison
Madison County
Town of Triana
Town of New Hope

## Regional, State, and Federal Agencies

Alabama Department of Transportation (ALDOT)

Redstone Arsenal

Wheeler National Wildlife Refuge (WNWR)

## +

### **Local Agency Departments**

Engineering
Traffic Engineering
Public Works
Capital Projects
Public Transportation
Utilities

Communications

## **Advisory Boards**

Bicycle Advisory and Safety Committee (BASC)

MPO Community Advisory Committee

Madison City Disability Advisory Board

Active Living Advisory Committee

Millennial Advisory Committee

## **Local Nonprofits and Advocacy Groups**

Spring City Cycling Club (SCCC)

Huntsville Urban Bike Share Co-op (HUBS)

Singing River Trail

Land Trust of North Alabama

Huntsville Area Mountain Bike Riders (HAMR)

Madison Greenways and Trails

Huntsville Tennessee Valley AMBUCS



Huntsville Bike Plan

## **Economic Development and Tourism**

Huntsville Area Assoc. of Realtors and Valley MLS

Ditto Landing

Launch2035

Downtown Huntsville

Downtown Madison

## **Schools and Community Organizations**

Higher Education

University of Alabama at Huntsville (UAH)

Alabama Agricultural

Cummings Research Park (CRP) /
Chamber/Cyber School

Oakwood University

and Mechanical University (AAMU)

Huntsville City Schools

Boys & Girls Club of North AL

First Stop Organization

Family Services Center

Community Foundation of Greater Huntsville

The Huntsville Hospital Foundation

United way of Madison County Incorporated

### **Wellness and Healthcare**

**Foundations** 

Huntsville Hospital
Crestwood Medical Center



## Internal and Cross-Agency Collaboration

# Capacity Building and Collaboration

- Continue to build capacity through local partnerships.
- Continue the quarterly meetings with BASC and establish an internal bike committee to communicate next steps to the broader MPO and partner agencies. The committee will support the non-infrastructure components of this Plan. This committee would focus on fostering partnerships and advancing recommendations that rely on community engagement, outreach, and coordination.
- Continue the quarterly Complete Streets Coalition meetings and create a similar program for MPO partner agencies to meet and collaborate on bike projects.
- Continue to support local advocates and bike events such as the Bike or Bust event through volunteer support and media promotion.



Huntsville Utilities Volunteer Council supports the annual WZYP's Bikes or Bust campaign. In 2024, they delivered 38 brand new bikes to Mojo for Kids to Love.

# Identify Opportunities to Collaborate with ALDOT

- Create a partnership with the Alabama Department of Transportation (ALDOT) to identify acceptable proven bicycle safety countermeasures along state routes through a Memorandum of Understanding.
- Meet quarterly with ALDOT to identify projects under development or those that will be added to the Statewide Transportation Improvement Program and other ALDOT projects.

# **Create New Internal Tools and Processes**

- Identify staff roles for sections of the plan implementation including promotion, bike route updates, and crash data review.
- Develop a Complete Streets implementation toolkit and/or checklist to provide staff with guidance when to implement bike facilities for various project types including new construction or reconstruction, resurfacing, restoration, and/or pavement rehabilitation.
- Establish quarterly meetings with engineering, capital projects, and public works to review upcoming projects and road resurfacing schedules.
- Review the capital budget process for opportunities to support demonstration projects and standalone bicycle projects.
- Collaborate across city departments to routinely identify and integrate new or improved bike facility improvements into all standard maintenance.

Bike the Rocket City

## **Funding Strategies**

## **Yearly Capital Budgets**

- Collaborate across local agency departments to identify projects to incorporate into yearly budgets.
- Work with Traffic Engineering to locate proven safety countermeasures for bicycle safety when making improvements to roadways.

### Grants

- Meet quarterly to identify grant opportunities and collaborate on applications. Yearly state programs that support bicycling infrastructure include the Transportation Alternatives Program.
- Create an internal program to track federal, state, and local grant opportunities.

# **Development Fees and New TIF Districts**

- Develop a program for a land development fee and utilize funds to implement and maintain the bicycling network.
- As part of the permitting process for new developments, MPO local agencies can require developers to incorporate bicycle and pedestrian improvements that align with the scope of their construction projects.
- → Tax Increment Financing (TIF) is a value capture funding mechanism that leverages anticipated increases in property tax revenues to finance infrastructure improvements, such as upgraded bike-ways. This approach involves designating a specific TIF district, typically in an area targeted for economic revitalization.

# Foundations and Public-Private Partnerships

- Identify new partnerships with public health stakeholders and collaborate on projects.
- Continue to partner with Singing River Trail, the Land Trust of North Alabama, and other regional trail and bicycle advocacy organizations to raise money for bicycle improvements.
- Coordinate with Launch2035 and local economic development partners to identify projects that support local businesses and fundraise for bicycle projects.





# Implementation Strategies

Because there is a universe of potential projects in the core and long-term recommendations, a strategic, phased approach is needed. Projects will be implemented in four phases based on cost and speed of delivery.

Engineering is the core component to Huntsville MPO's implementation strategy as design impacts behaviors and safety. Engineering is also the most labor-intensive and costly, requiring significant financial and staff resources.

Large, transformative projects will require multiple steps, including audit/analysis, concept design, full design, and construction. In other cases, quick-build projects can more quickly and easily make small but important impacts across Huntsville.



## **Quick-Build Projects**

**Summary**: Projects that use lower-cost materials such as paint, bollards or flex posts, and concrete bike barriers.

**Notes**: Can be easily modified or removed and typically take days or weeks to construct, progressing from conception to reality within months. Unlike temporary demonstration projects, quick-builds can provide lasting benefits and adapt based on public feedback. Both quick-build and demonstration projects provide efficient improvements that can be used to gather community feedback and provide a solution while working towards funding goals for full build implementation.

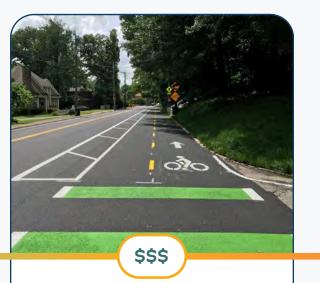
Bike the Rocket City



# Maintenance Projects (Resurfacing)

**Summary**: Provide an opportunity to implement bikeway projects because the street is a blank canvas after the resurfacing work is complete.

**Notes**: Additional community engagement surrounding the addition of a bikeway is needed, particularly if there are parking or travel lane trade-offs.



## **Stand-Alone Projects**

**Summary**: Can be considered a small capital project and may include some reconstruction depending on the desired bikeway type.

**Notes**: Could be funded via the Capital Improvement Plan and supported via grants.



## **Reconstruction Projects**

**Summary**: Often completed because the quality of the pavement has deteriorated to a point where it needs to be fully reconstructed and typically includes the full right-of-way.

**Notes**: When reconstruction projects overlap with routes identified in the bikeway network map, it is important to implement a bikeway that meets the vision of an All Ages and Abilities Network.

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Huntsville MPO Bike Plan Implementation Strategy

# Five-Year Implementation Plan

Implementation Strategy

Theme	Yearly programs and tracking	2026	2027	2028	2029	2030
Infrastructure and Design Guidance	<ul> <li>Measure and track the performance of the new bike facility projects (corridor and intersection)</li> <li>Coordinate biannually with ALDOT to provide safe bicycle facilities as part of TIP projects. Share recommendations from this plan with them.</li> <li>Identify yearly mileage targets for installing new greenways</li> <li>Grant program tracking and applications</li> <li>Continue the neighborhood traffic calming program</li> </ul>	<ul> <li>Update design guidance for bike lanes and intersection treatments and adopt bicycle facility selection criteria based upon motor vehicle speed and volume</li> <li>Identify top greenway segments and connecting bike facilities</li> <li>Implement five miles of bicycle boulevards with signage, traffic calming, and intersection improvements</li> <li>Implement the Max Luther Drive, Blue Spring Road, and Wall Triana bike lanes (see concept designs on pages 81-91) and the Holmes Ave Complete Streets corridor.</li> <li>Design the first protected intersection</li> <li>Identify locations for intersection bike boxes and continue adding bike detection</li> <li>Develop a bicycle boulevard best practices and traffic calming toolkit</li> </ul>	<ul> <li>Implement another five miles of the bicycle boulevard network and traffic calming elements. Install devices to monitor speed.</li> <li>Identify over-capacity roads with potential for lane reconfiguration and bike lanes</li> <li>Implement another five miles of greenway projects</li> <li>Implement a protected intersection and bike boxes</li> </ul>	<ul> <li>Implement another five miles of the bicycle boulevard network.</li> <li>Identify over-capacity roads with potential for lane reconfiguration and bike lanes</li> <li>Implement another five miles of greenway projects</li> <li>Measure success and feedback on the protected intersection</li> <li>Measure success of the traffic calming elements.</li> </ul>	→ Finalize construction documents and bid construction for major greenway segments including the Chase Greenway, Indian Creek Greenway, North Huntsville Greenway, and Cummings Research Park Greenway	<ul> <li>→ Update bike plan</li> <li>→ Begin implementation of major greenway segments</li> </ul>
Safety	<ul> <li>Vision Zero working group quarterly meetings</li> <li>Identify MPO staff to coordinate with ALDOT on crash data and report on findings</li> <li>Yearly reports on the progress towards Vision Zero</li> <li>Updates to the Vision Zero action plan every 5 years</li> </ul>	<ul> <li>Develop the SS4A Safe Routes to School (SRTS) program and safety campaign (pending award)</li> <li>Create a near-miss crash reporting system and identify hot spot locations</li> <li>Install near-miss cameras and research new technology and big data</li> <li>Conduct the Governor's Drive and Medical District safety planning study</li> <li>Update the Vision Zero Action Plan</li> <li>Conduct a safety planning study of crossing Research Park Blvd and/or pedestrian bridge</li> </ul>	<ul> <li>Finalize the SRTS plans and start implementing projects and the safety campaign</li> <li>Finish the Governor's Drive and Medical District safety planning study</li> <li>Hire a SRTS coordinator</li> </ul>	<ul> <li>Implement five (5) SRTS projects</li> <li>Develop a program to track success, report crash reductions, and collect narratives from parents and students</li> </ul>	<ul> <li>Implement another five (5) SRTS projects</li> <li>Publish internal findings on crash reductions and progress</li> </ul>	<ul> <li>Update Vision Zero Safety Action Plan</li> <li>Create new performance measures and strategies for bicycle safety</li> </ul>
Access for All	<ul> <li>Host transportation open houses in disadvantaged communities</li> <li>Create a yearly report on engagement best practices and lessons learned</li> <li>Track where projects are implemented and funding allocated for bicycle infrastructure throughout the MPO</li> </ul>	<ul> <li>Create an engagement strategy to hear from and build trust within disadvantaged communities during transportation planning and implementation projects</li> <li>Host bi-annual meetings or open houses with District representatives to understand concerns from disadvantaged communities</li> <li>Create an internal strategy and best practices approach to engage disadvantaged communities and populations who are often hard to reach through traditional engagement (open houses, online surveys, etc.)</li> </ul>	<ul> <li>Develop a community ambassador program and conduct bike audits</li> <li>Create a rebate program for the purchase of e-bikes</li> <li>Assess the success of public engagement efforts in disadvantaged communities</li> </ul>	<ul> <li>Create a program for free bicycles, helmets, and lights for students who complete a bike safety program and volunteer hours.</li> <li>Engage students and Parent Teacher Associations at the schools where SRTS plans are implemented.</li> </ul>	<ul> <li>Continue SRTS and education programming</li> <li>Assess success and lessons learned from the ambassador program</li> </ul>	<ul> <li>Evaluate program success</li> <li>Update and develop a new</li> <li>5-year strategic plan</li> </ul>

**Bike the Rocket City** 





# Five-Year Implementation Plan

Theme	Yearly programs and tracking	2026	2027	2028	2029	2030
Education	<ul> <li>Continual maintenance and promotion of the See and Be Seen resource page</li> <li>Bi-annual coordination with regional and state partners on bike safety initiatives</li> </ul>	<ul> <li>Collaborate with BASC, Spring City Cycling, and other advocates to create a bike education program at schools to support SRTS initiatives</li> <li>Develop an approach for a bike + vulnerable road user (VRU) safety campaign</li> <li>Collaborate with county and city communications departments to create an approach and schedule for social media posts and other media promotion for bike events and programs (see below)</li> </ul>	<ul> <li>Collaborate with ADECA and AlaBike on driver education requirements regarding bike safety</li> <li>Implement the bike and VRU safety campaign and create an approach to track progress</li> </ul>	<ul> <li>Measure progress from the safety campaign and create an internal and public-facing report</li> <li>Implement the bike-focused curriculum for K-8 students at schools across the MPO</li> </ul>	◆ Evaluate program effectiveness of the bike education program	◆ Develop an updated 5-year strategic plan
Promotion and Supportive Elements	<ul> <li>Continued promotion of May Bike Month and new events each year</li> <li>Identify new partners to support events, encouragement programs, and incentives</li> </ul>	<ul> <li>Apply for the League of American Bicyclists Bicycle Friendly Community (BFC) program</li> <li>Encourage bike commuters to record rides on Strava</li> <li>Create a web-based map with greenways, bike routes, bike lanes and planned infrastructure</li> <li>Install trail counters at greenways, bicycle facilities, and intersections with bicycle facilities</li> <li>Collaborate with Orbit to increase the number of racks on buses and develop a first-and last-mile strategic connections plan</li> <li>Identify locations for fix-it stations</li> </ul>	<ul> <li>Identify strategies recommended by the BFC program application and feedback</li> <li>Create an incentive program to encourage existing businesses to install bike parking</li> <li>Assess existing land development policies to incorporate more bicycle facilities and supporting elements (bike parking)</li> <li>Install fix-it stations</li> </ul>	<ul> <li>Install new bike share locations and encourage bike share as part of new developments</li> <li>Implement recommendations from the BFC application feedback</li> </ul>	★ Expand the bike share program to new locations	◆ Reapply for BFC designation
Policy Development, Internal Processes, Capacity, and Evaluation	<ul> <li>As-needed review of resurfacing schedules</li> <li>Implementation of bike parking standards</li> <li>Create a yearly report with mileage and locations of bike facilities</li> <li>Coordinate with big data providers (Strava, Ecopia, Streetlight, or Replica) for yearly bike commuting data and other data needs</li> <li>Expand staff participation at the Bicycle Advisory and Safety Committee (BASC) meetings</li> <li>Continued support of the SeeClickFix reporting system</li> </ul>	<ul> <li>Coordinate with public works, engineering, and capital projects departments to meet quarterly to review surfacing schedules and major projects within public right- of-way</li> <li>Create a template Complete Streets ordinance and resolution for all MPO agencies to modify and adopt as desired. Update existing Complete Streets policies.</li> <li>Create a Complete Streets checklist and/or context sensitive design guide</li> <li>Review subdivision standards to require side path facilities and inter-neighborhood connectivity</li> <li>Create a commitment to the Safe Systems Approach to roadway design</li> <li>Create a maintenance best practices guide for all partner agencies and implement updated maintenance guidance</li> <li>Create a communications strategy and develop a landing page for a future bike network map and resources</li> </ul>	<ul> <li>Implement the Complete Streets checklist across all departments and MPO agencies</li> <li>Update subdivision standards</li> <li>Hire additional staff to support with bike education, promotion, events, partnership building, public engagement, grant applications, communications, and cross-agency coordination</li> <li>Evaluate policies such as the Idaho Stop which allows bicyclists to treat a stop sign as a yield sign. See other policies from the BFC application guide.</li> </ul>	<ul> <li>Measure success of bike facility implementation over the last three years</li> <li>Coordinate across agencies and departments to develop new bicycle infrastructure, safety, and engagement performance measures</li> </ul>	<ul> <li>♣ Assess success and lessons learned from the updated maintenance practices</li> <li>♣ Research and test new technology and bike facility applications</li> </ul>	<ul> <li>↑ Assess the effectiveness of the Complete Streets Policy updates and the checklist</li> <li>↑ Identify gaps in policies or incentives</li> </ul>





# Recommended Planning, Design, and Programs

This plan outlines the strategy for bike facility implementation for the MPO. Next steps include feasibility studies, program development, supportive policies, implementation toolkits, updated design guidance, and new tools and data. The following planning efforts will provide the MPO with strategic next steps for implementation.

## **Feasibility and Design**

## Chase rail-trail feasibility study

Madison County has funded portions of the Chase rail-trail that are going out to construction soon. There is a need for a feasibility study to connect the AL A&M Greenway to designed sections of the Chase Greenway.

#### **Construction Documents**

The concepts illustrated on pages 80 through 101 will require construction documents. High priority greenway segments, like the North Huntsville Greenway, necessitate design to communicate the intended vision and meet engineering standards.

#### **Research Park Feasibility Study**

Develop a study to assess the feasibility of a pedestrian bridge over Research Park Boulevard to provide western connections to Mid City, UAH, and downtown Huntsville.

## **Tools and Resources**

#### **Policy assessment**

Successful implementation of the bike plan requires supportive policy. An assessment of the existing Complete Streets policy and expanding supportive policy across the MPO will support cross-agency collaboration and implementation.

## Design standards

Adopted design standards for bicycle facilities and deciding when and how to implement bicycle facilities will help MPO partners collectively identify bike facilities when deciding on roadway allocation.

## Neighborhood Quick-win and bicycle boulevard toolkit

A key component of this plan is the development of a low-stress and low traffic volume neighborhood roadway network. A set of adopted traffic calming and bicycle boulevard toolkit will provide neighborhood advocates, engineers, planners, and decision makers will a menu of tools.

#### **Bike Network Online Map**

An online interactive map allows planners and decision makers visualize data and factors in one place. Adding the findings from the analysis items (demand, short trip analysis, and HIN) along with the bicycle network recommendations provides a one-stop-shop with data and the envisioned bicycle network to information decision making. A public-facing version is also recommended to communicate upcoming projects and the build community momentum for projects.

## Safety Campaign and SRTS

A safety education campaign focused around safe driving and bicycling will address strategies from the Vision Zero effort and support education and awareness needs identified in this plan. Continue to pursue SS4A and other safety funding to build a safety education campaign and Safe Route to School projects.





Implementation Strategy

**Bike the Rocket City**