

Please get out your devices...



1. On your device's browser, go to [menti.com](https://www.menti.com)

2. Enter the code **61 67 83 7**

We will be asking feedback questions throughout the presentation.

Please join the meeting at this link:

<https://zoom.us/j/97733016850>

The meeting will start shortly!



Comprehensive Plan

Community Education Session #3

Transportation & Smart Cities Technology

03/11/21 at 6:00PM

Tonight's Speakers



*Megha Young, AICP
Gresham Smith*



*Erin Thoresen, AICP
Gresham Smith*



*Andrew Smith
Gresham Smith*

Consultant Team Members

City of Milton Staff



*Michele McIntosh-Ross
Principal Planner*



*Sara Leaders, PE, LSIT
Transportation Engineer*



*Shubha Jangam
Senior Planner*

Agenda

Transportation Planning in Milton

Progress on Improvements

Georgia Department of Transportation (GDOT) Projects

Project Development

Future Transportation Initiatives

Roadways in a Rural Context: A Toolbox

Live Polling Question - Mentimeter

Addressing Multimodal Needs

Live Polling Question - Mentimeter

Smart Technology

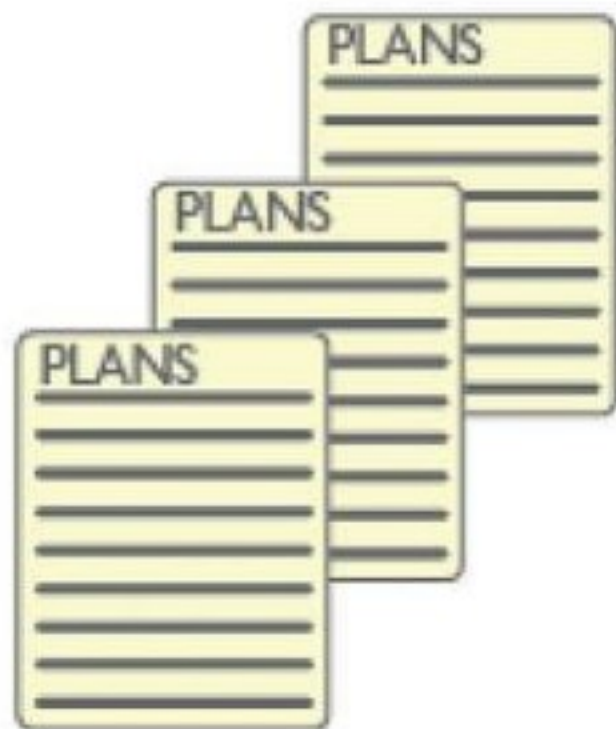
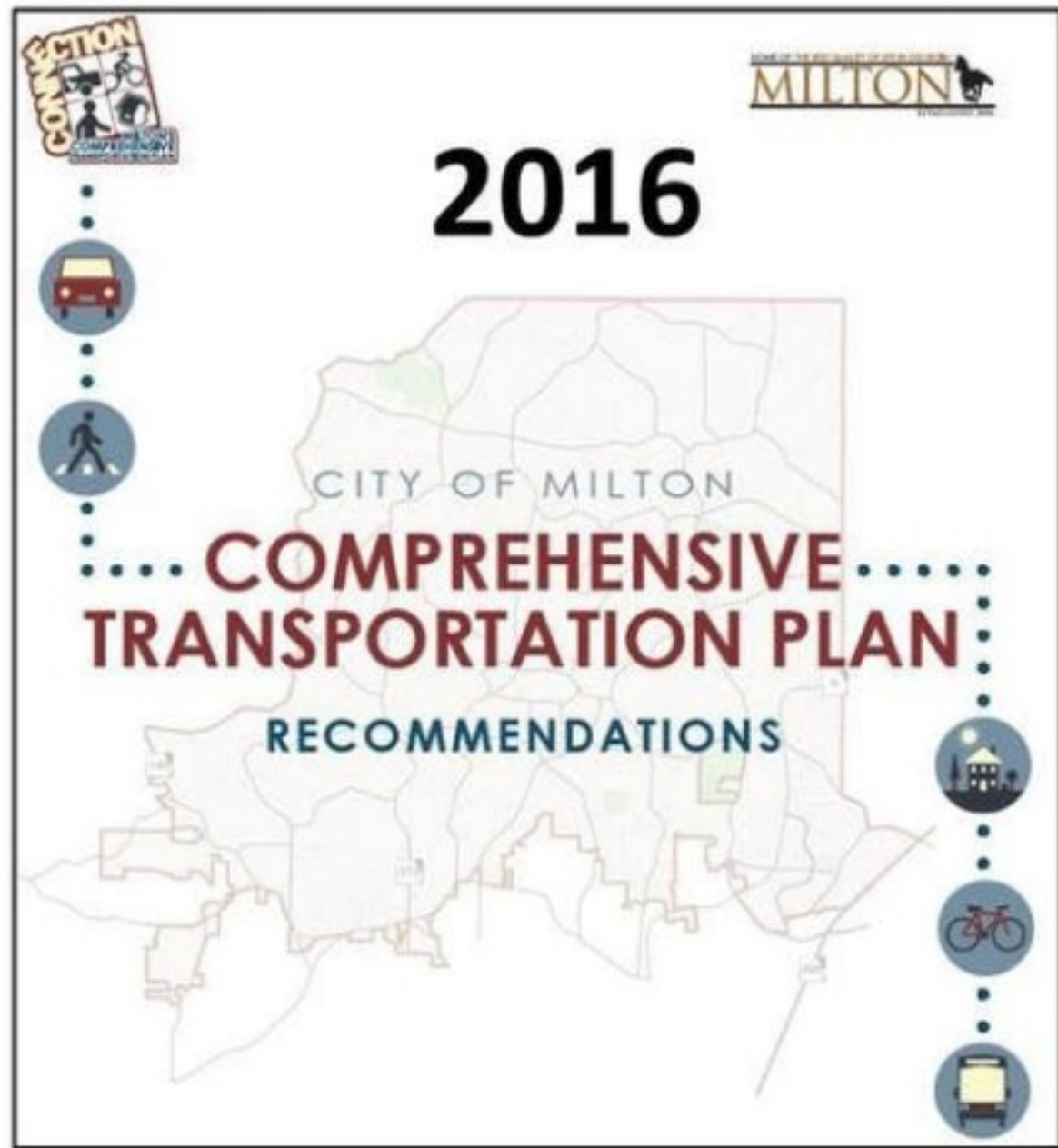
Live Polling Questions - Mentimeter

Open Q&A

TRANSPORTATION IN MILTON

-  **Transportation Planning**
-  **Progress on Improvements**
-  **Georgia Department of Transportation (GDOT)**
-  **Project Development**
-  **Future Transportation**

PLANNING



PROJECT PROGRESS

SR 9 Corridor Underway
Morris Rd Underway
NE Crabapple Complete

20 Completed Intersections

- 9 Roundabouts
- 4 New Signals
- 7 Turn Lanes

8 Underway Intersections

- 5 Roundabouts
- 3 Turn lanes

3 Initiated Intersections

Bridges

- 3 Replacements
- 8 Bridge Repairs
- 1 Underway Replacement
- 4 Initiated Projects

Corridor Project Status

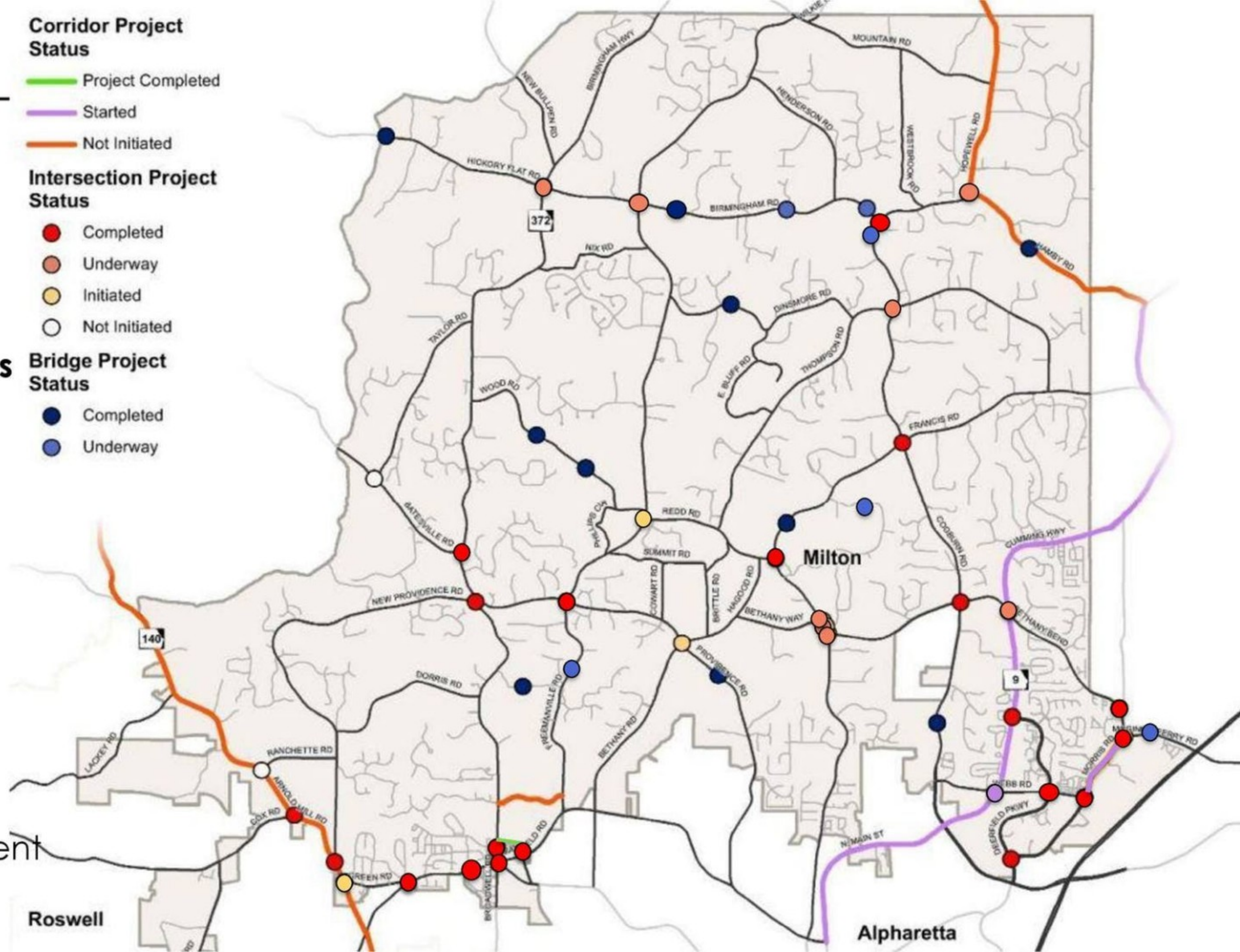
- Project Completed
- Started
- Not Initiated

Intersection Project Status

- Completed
- Underway
- Initiated
- Not Initiated

Bridge Project Status

- Completed
- Underway



PROJECT FUNDING

Federally funded projects \$16.5M

- ✓ SR 372 at Providence
- ✓ SR 140 at New Providence
- ✓ NW Crabapple
- ✓ Mayfield Sidewalk

Underway Greenway Trail Connection

Local

- 🐎 Capital Program
- 🐎 20% Matching Funds

TSPLOST

- 🐎 0.75% Sales Tax for Transportation
- 🐎 Collections 4/1/2017 to 4/1/2022
- 🐎 Estimated \$31.5M for Milton



\$13.2M Federal
\$3.3M Matching

STATE
FUNDING



Projects & Programs

LOCAL FUNDING
Capital \$8.5M
Matching \$3.3M



GDOT PROJECTS AND PROGRAMS



Major Improvement Projects

- SR 400 at McGinnis Ferry Road Interchange and Widening
- SR 9 Widening
- SR 140 Long Range Program



Quick Response Program



Operational Improvement Program

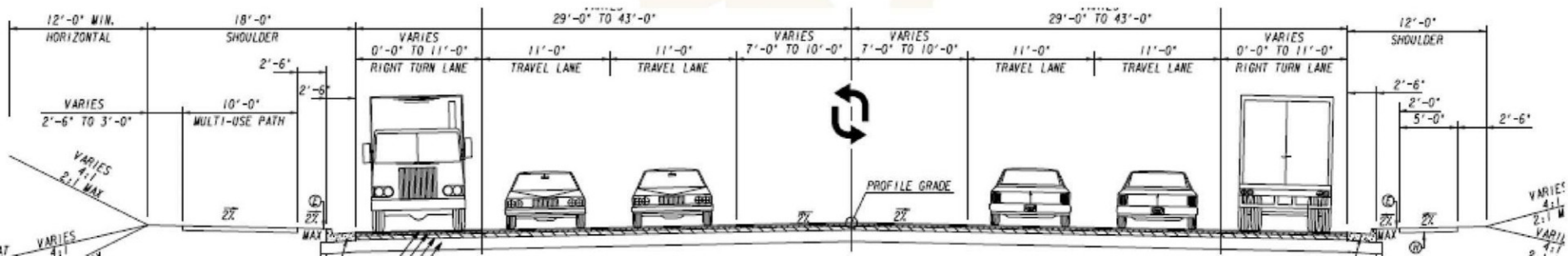


Local Bridge Program

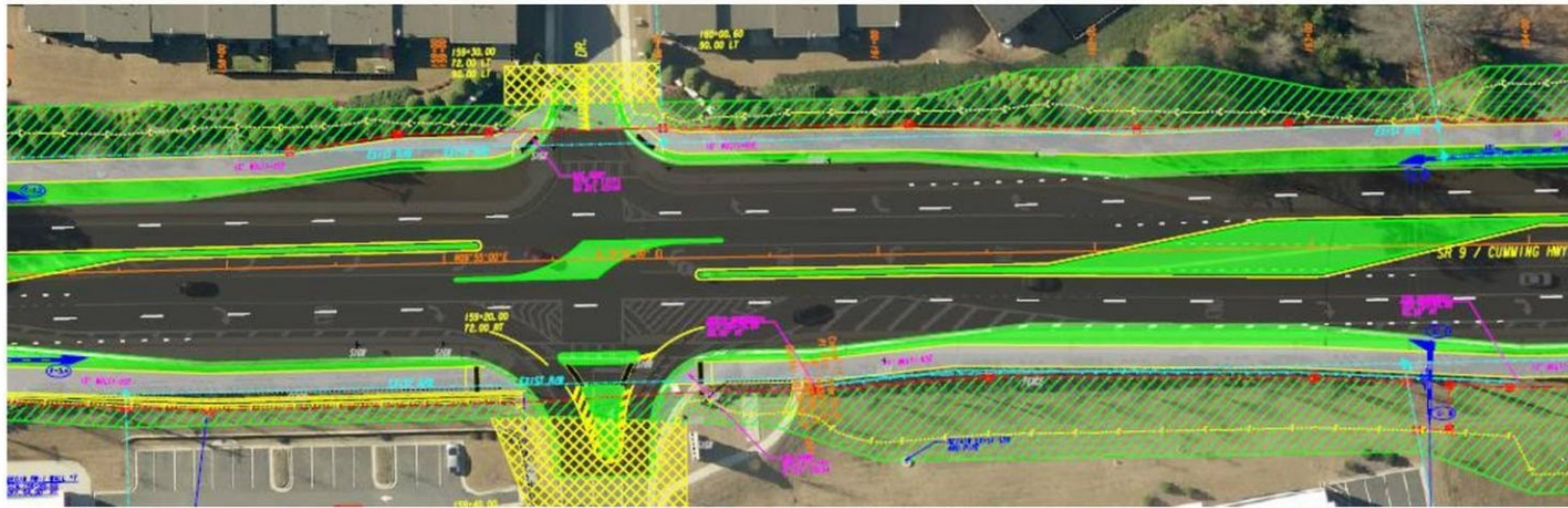
GA 400 INTERCHANGE AT MCGINNIS FERRY RD




CONCEPT PLAN
 GA 400 AT MCGINNIS FERRY ROAD
 AND AUXILIARY LANES ON GA 400
 NOVEMBER 2014 SCALE: 1=200'
 MA Moreland Altobelli Associates, Inc.



SR 9 WIDENING



-  Final Design/Right of Way
-  Let date 4/15/2022
-  Construction Funding FY 2023

GDOT PROGRAMS

Quick Response



Operational Improvements



BRIDGES

**Birmingham West
2019 \$700k**



**Freemanville
Construction
2024 GDOT
\$3M**



Landrum 2013 \$200k



Cogburn 2012 \$650k

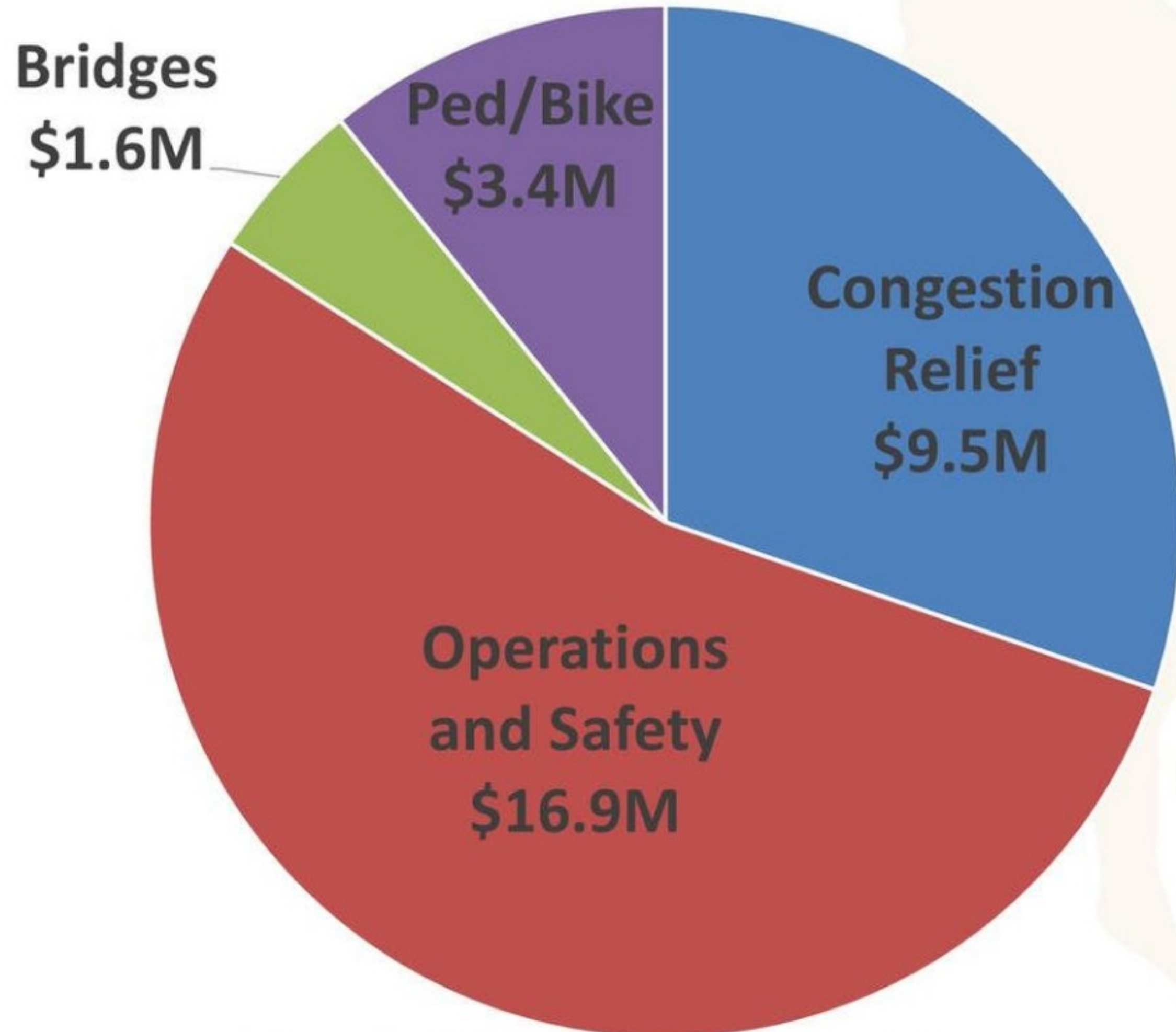
**Birmingham East
Construction 2024
GDOT \$3.5M**

**Hopewell
Construction 2024
GDOT \$4.5M**

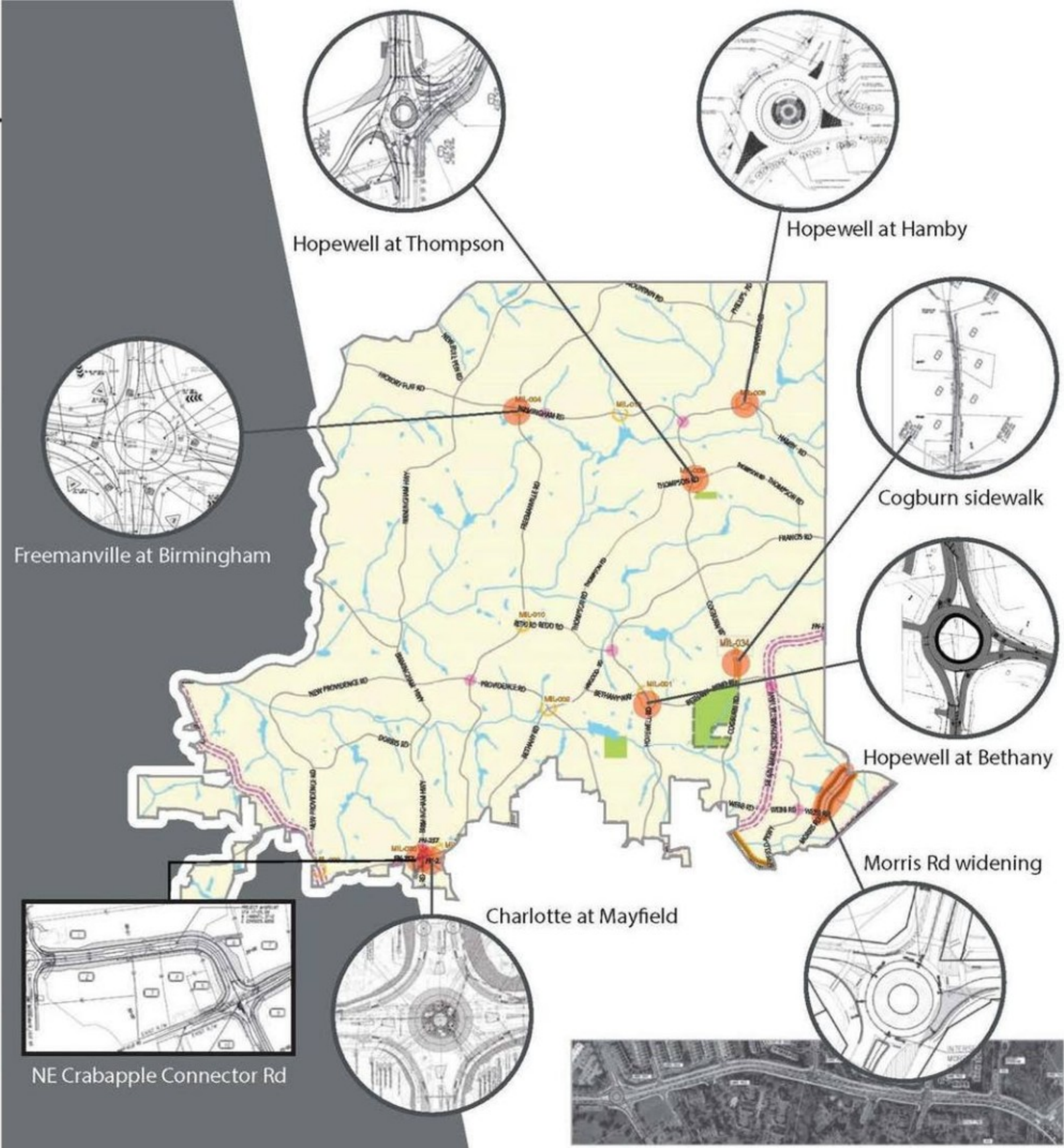
**Birmingham
Middle TSPLOST
\$1.61M**



TSPLOST PROJECTS UNDERWAY



Tier 1 Distribution by Type



PEDESTRIAN IMPROVEMENTS

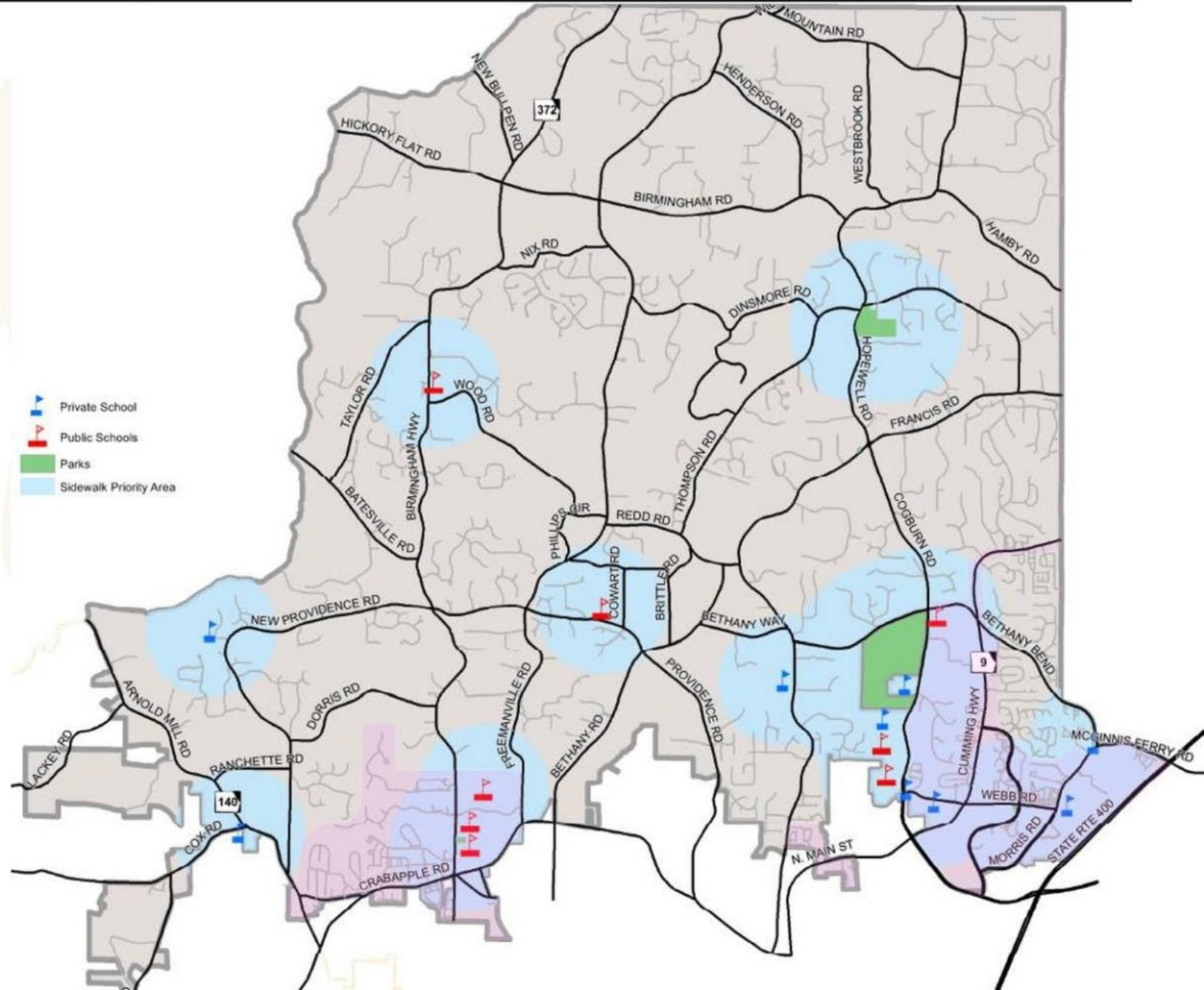
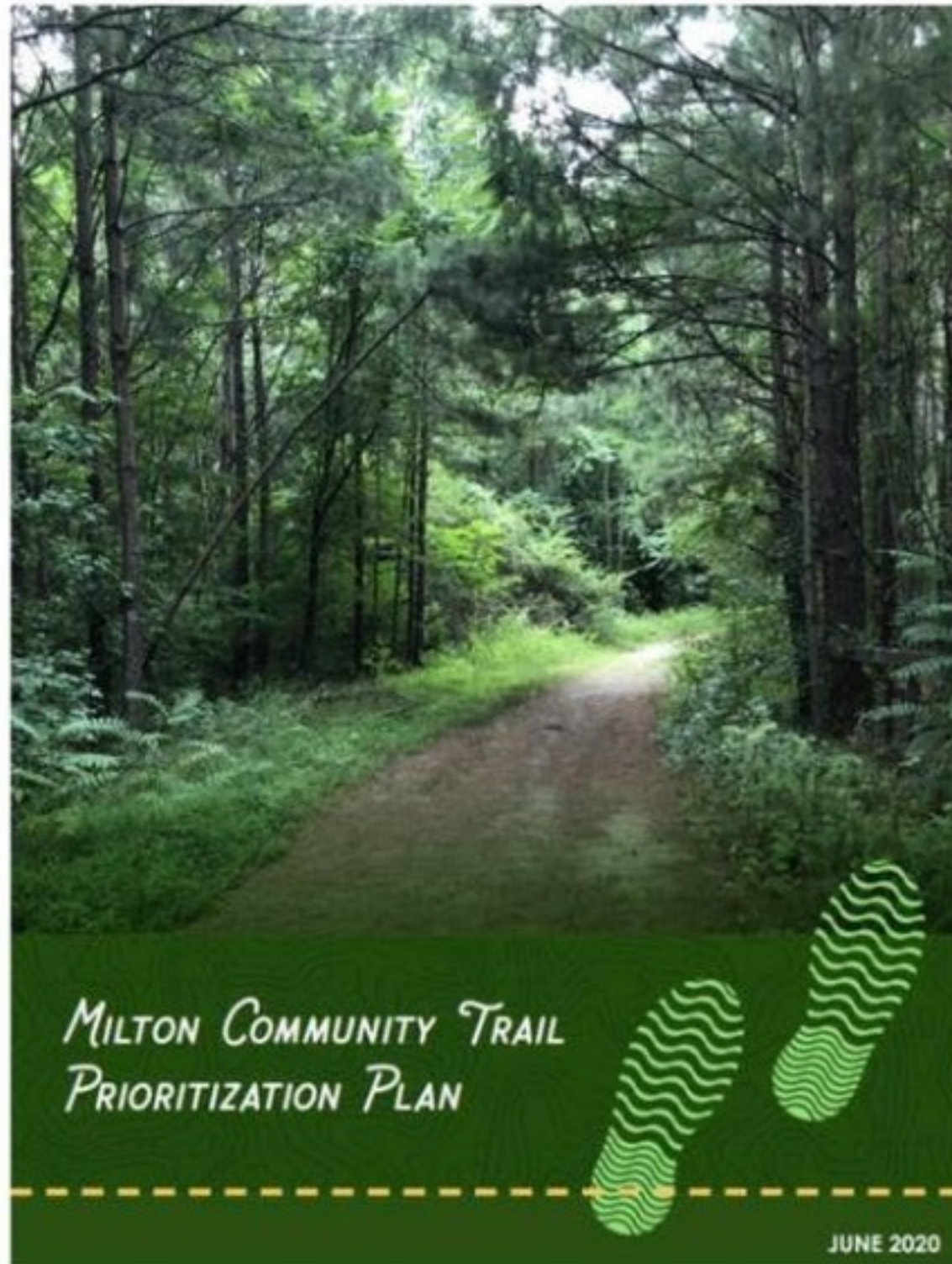


Sidewalk priority areas

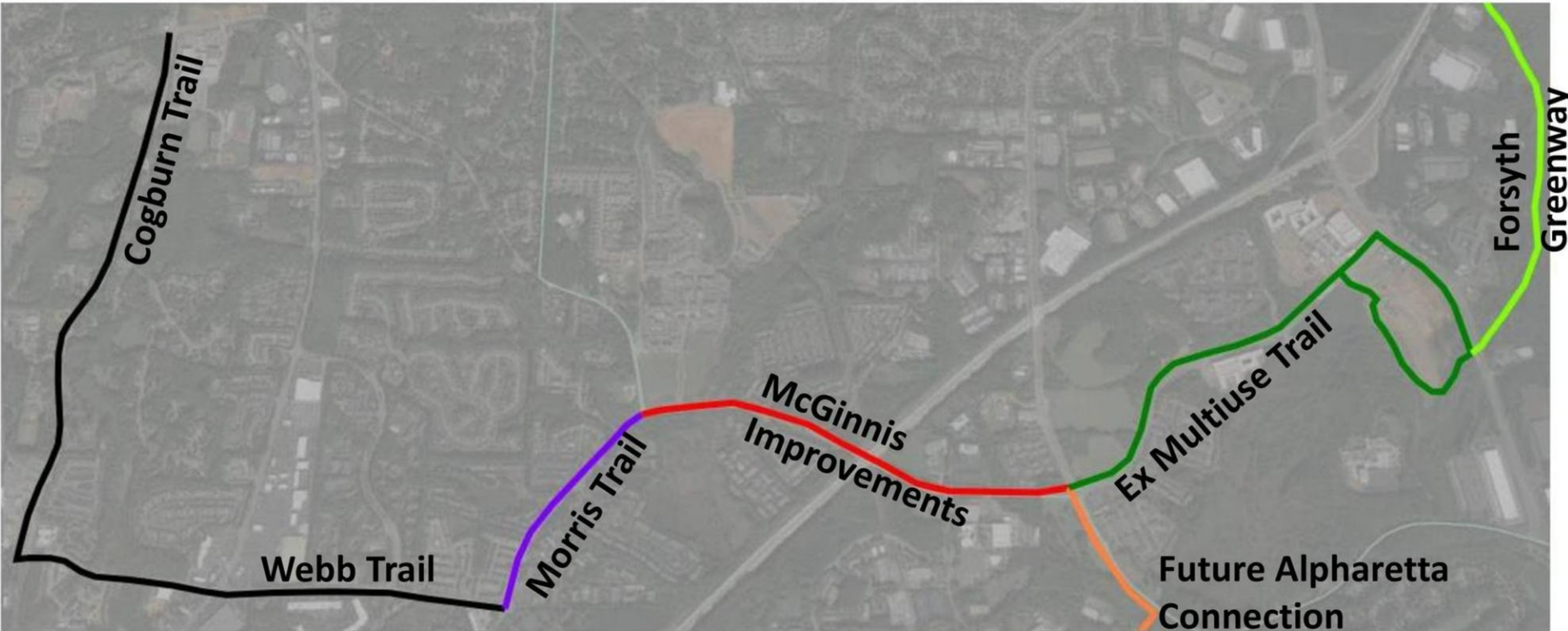
- Schools and parks
- Form based code areas



Action Plan based on Trail Prioritization



BIG CREEK GREENWAY CONNECTION



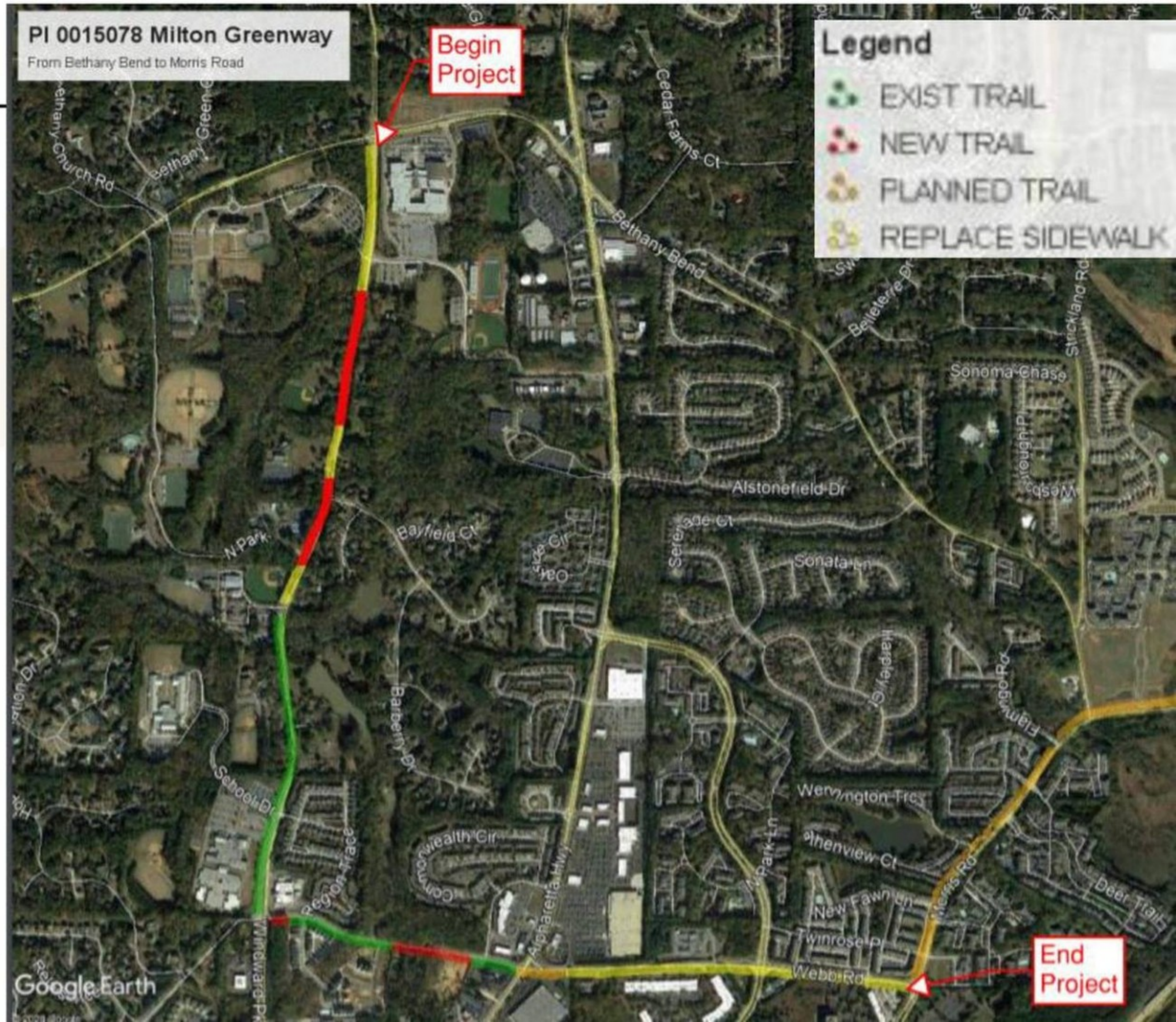
COGBURN & WEBB TRAILS



Federal funds

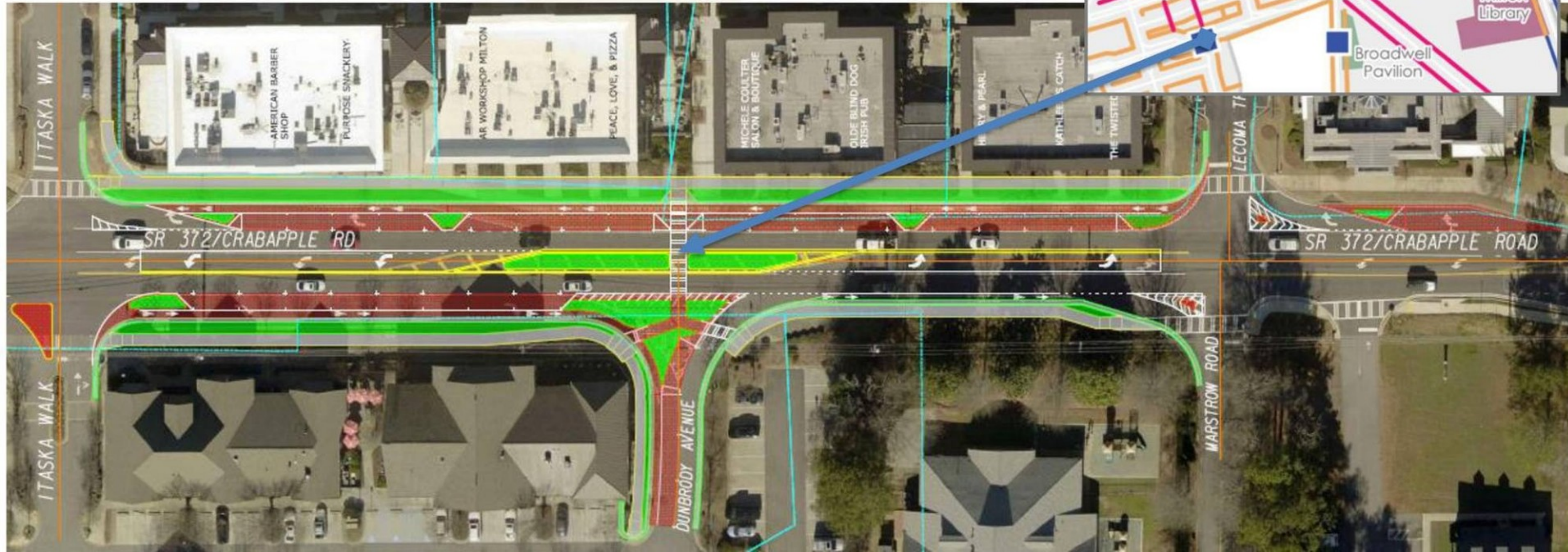


Creates multiuse path that will tie into Big Creek Greenway through other projects underway



CRABAPPLE PEDESTRIAN AND STREETSCAPE

-  Pedestrian Crossings
-  Crabapple Rd Streetscape
-  Local Funds, GDOT approval on State Route



FUTURE TRANSPORTATION INITIATIVES

-  **Local Road Safety Plan**
-  **Traffic Calming**
-  **Bicycle Priority Network**
-  **Golf Carts – Explore PTV Plan**
-  **TSPLOST II**
-  **Comprehensive Transportation Plan FY22**

The Future of Transportation
in Milton

Roadways in a Rural Context: A Toolbox

***Designing Safe
Roadways***



***Addressing
Multimodal Needs***



***Smart Technology
Applications***

“The City has continued to put a major focus on transportation safety along its corridors and at its intersections.”

***- 2016 City of Milton Comprehensive Transportation Plan
(CTP)***

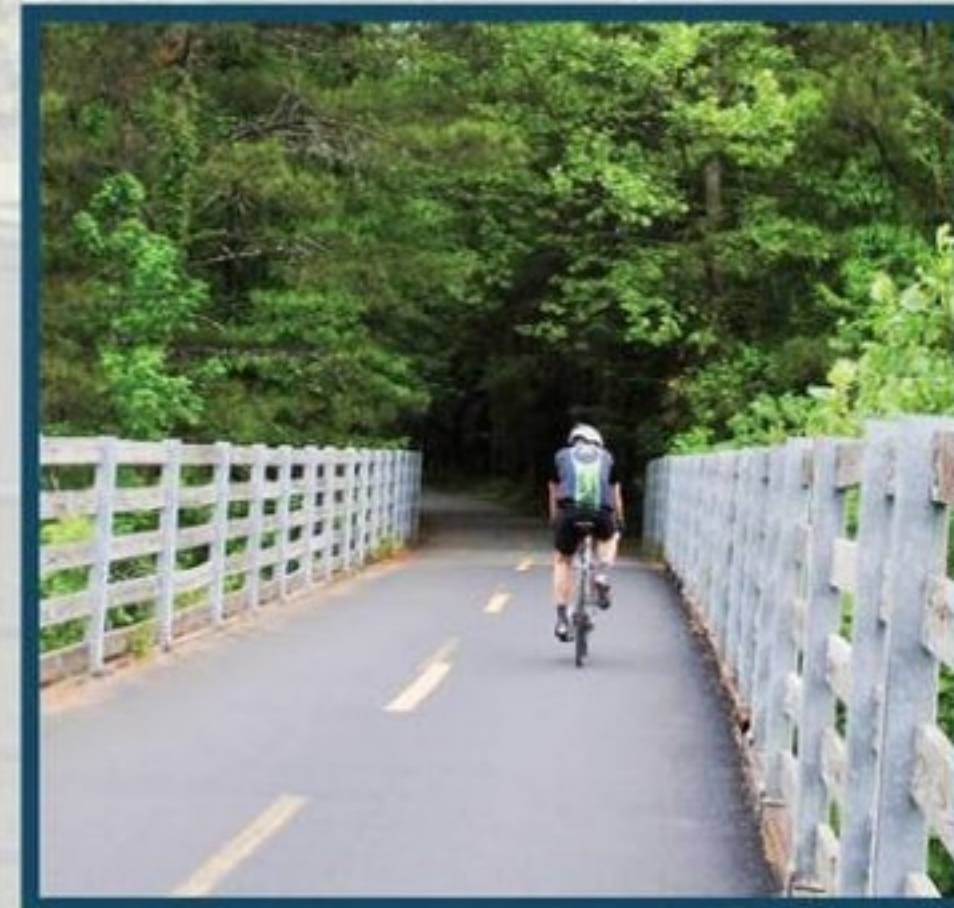
According to the 2016 CTP, out of eight transportation priorities, residents chose walking and biking second only to vehicle travel.

Designing Safe Roadways

***Account for the needs of all users
of public right-of-way***

A Mix of Users

- Driving
- Bicycling
- Walking
- Carpool, Vanpool
- Farming & Agricultural Equipment
- Emerging Options
 - Micromobility (e.g. Scooters)
 - Rideshare (e.g. Uber/Lyft)



Need for Safety

Community Survey Priorities

- Improve safety, connectivity, and bike/pedestrian facilities

Relationship Between Design & Speed

- Speed is often a contributing crash factor
- Faster speeds decrease rate of survival in crashes
- Roads designed for higher speeds give motorists less chance to react
- Traffic-calming efforts in small town and rural areas tend to emphasize speed reduction measures rather than volume reduction



Source: FHWA Small Town and Rural Multimodal Networks

Treatment of Shared Facilities

Considerations

- Emphasis on safety for all users
- Topography and curvature
- Width of roadway shoulders
- Traffic calming
- Connectivity between destinations

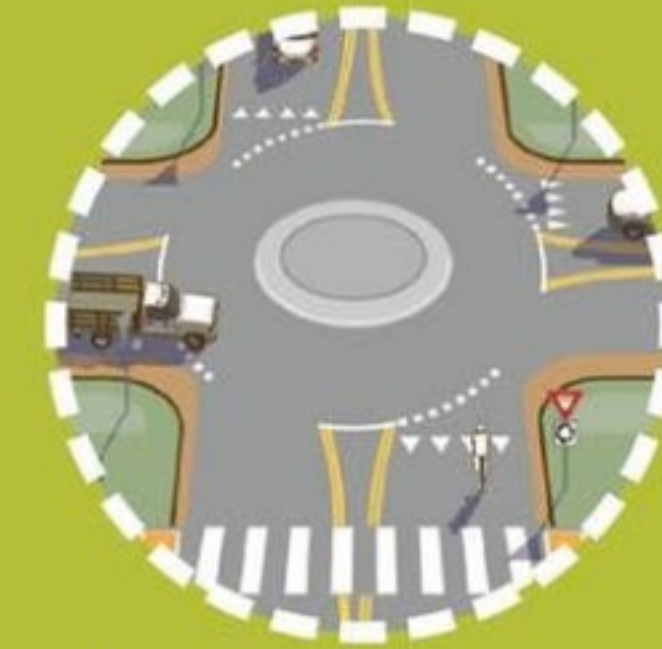
Benefits

- Reduced risk of injuries or fatalities
- Reduced speed of traffic in congested areas
- Better pedestrian experience
- Safer crossings and fewer potential conflicts

Potential Options



Speed Humps



Mini-Roundabouts



Pinch Points



Median Islands



Speed Feedback Signage



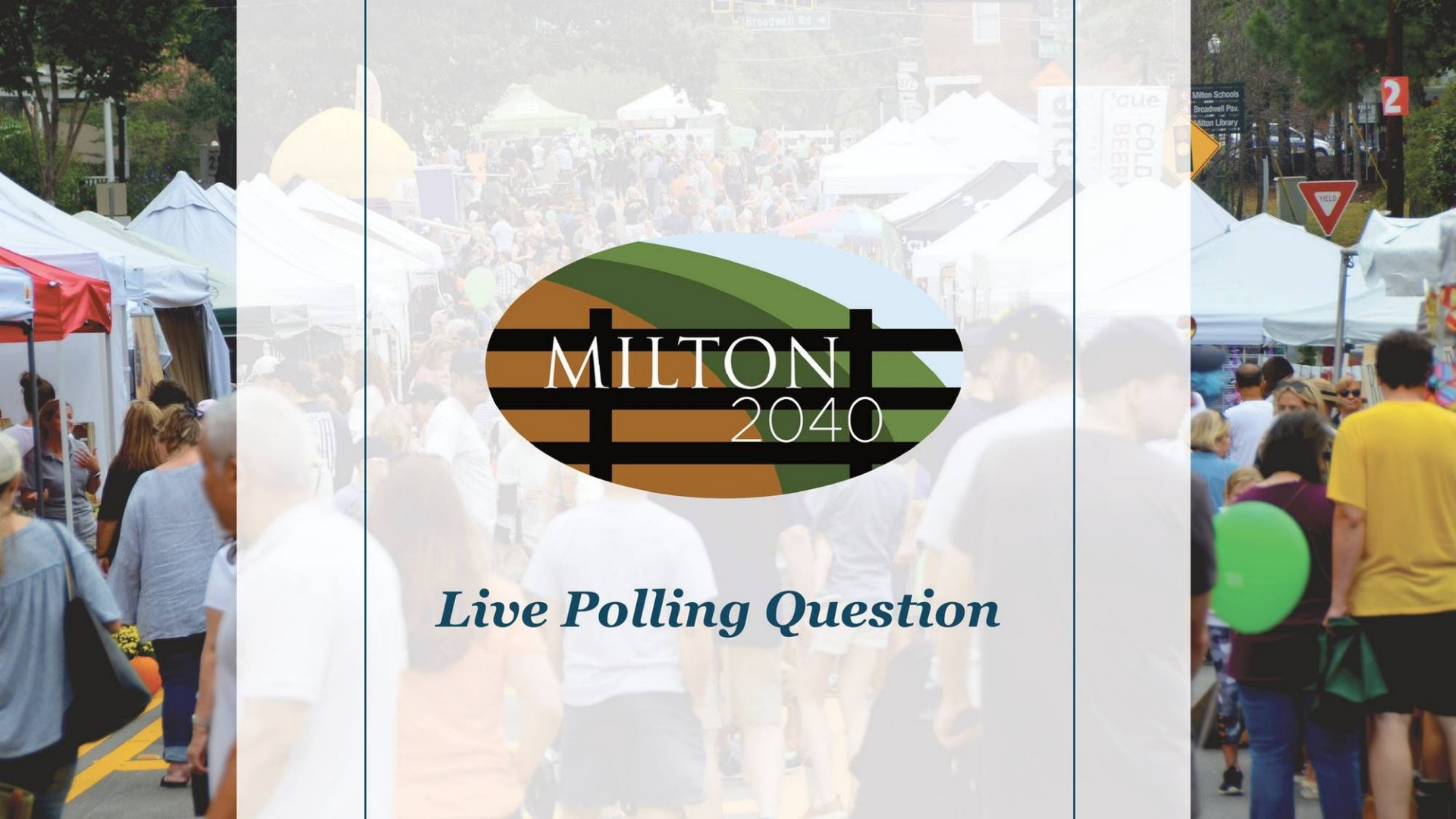
Enhanced Pavement Markings

Source: FHWA Small Town and Rural Multimodal Networks

Design treatments can be applied to match the look and feel of Milton while improving safety and preserving rural character



Live Polling Question



Of the design strategies presented, which do you think would best address transportation safety within Milton? Answer in a few words.



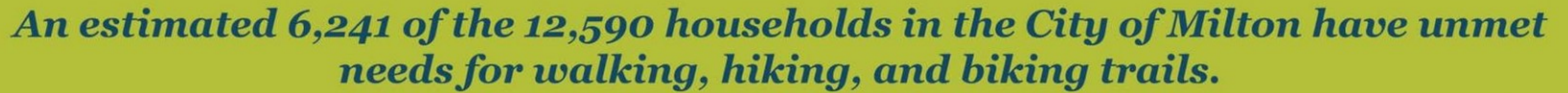


How can we plan for modes of transportation beyond the automobile?



“Multi-use trails offer a safe, alternative form of transportation, provide substantial health benefits, habitat enhancements for plants and wildlife, and unique opportunities for outdoor education and cultural interpretation.”

- 2019 City of Milton Comprehensive Parks & Recreation Master Plan



An estimated 6,241 of the 12,590 households in the City of Milton have unmet needs for walking, hiking, and biking trails.



Addressing Multimodal Needs

Design that improves safety and mobility for all users

- Sidewalks
- Natural Surface Trails
- Paved Trails
- Bicycle Lanes
- Equestrian Trails
- Safe Crossings



Strategies & Programs

Potential Strategies for Milton

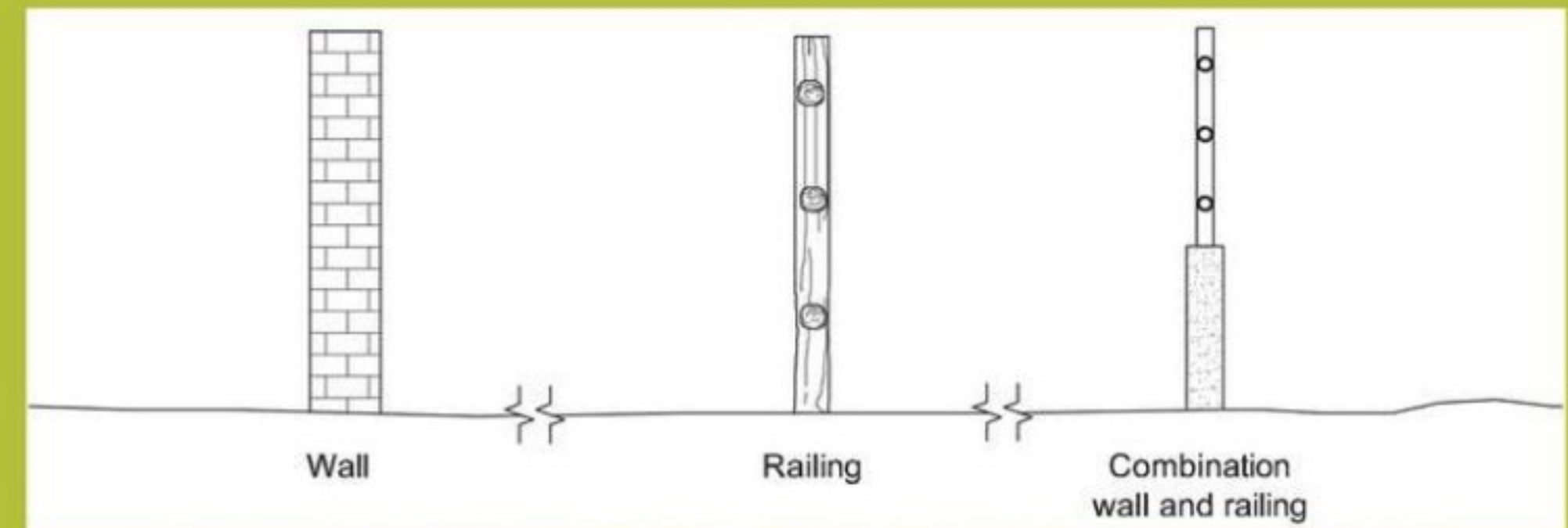
- Designating bicycle routes locally and regionally
- Promote and enable access to parks and greenspace
- Complete Streets and traffic calming policies beyond local residential streets
- Support programs such as Safe Routes to School
- Promote educational awareness for drivers, cyclists, and pedestrians



Infrastructure Improvements

Approaches for Milton

- Separate modes of travel where right-of-way allows
- Barriers or railings to mitigate potential conflicts between users (vehicles, pedestrians, cyclists, etc.)
- Differentiate spaces by surfaces with different materials, textures, colors, etc.
- Enhanced crossings (flashing beacons, high visibility markings, etc.)
- Consider range of facility types and/or markings most appropriate for the area



Source: FHWA Equestrian Design Guidebook for Trails, Trailheads, and Campgrounds

Examples of Multimodal Treatments

On-Road
Treatments

Separated
Treatments

Bicycle Lanes

Sharrows

Paved
Shoulders

Sidewalks

Separated
Bicycle Lanes

Shared-Use
Paths & Trails



Examples of Multimodal Treatments

On-Road
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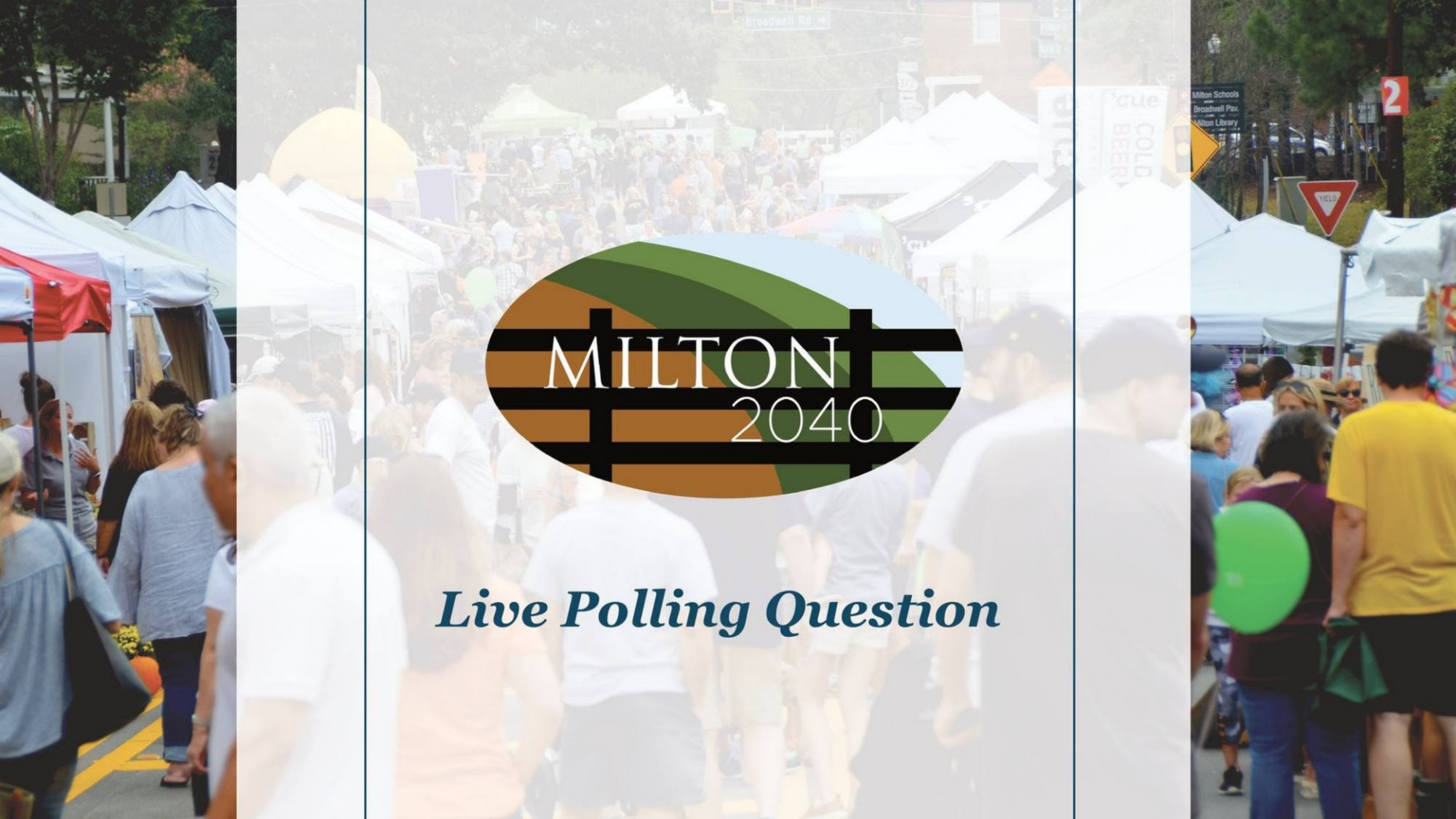
Separated
Bicycle Lanes

Shared-Use
Paths & Trails





Live Polling Question



Which of these ideas would best address multimodal needs in Milton? Answer in a few words.



How can we leverage technology to improve transportation within Milton?



“The inclusion of technology to support transportation continues to present opportunities to benefit the traveling public.”

***- 2018 North Fulton Comprehensive Transportation Plan
(CTP)***

As technological capabilities advance, there is an opportunity for Milton to implement smart city technology and collaborate with regional partners.

Smart Technology

Community Survey Priority

- Improve access to information and enhance broadband connectivity

Universe of Potential Applications

- Signal timing and coordination
- Charging stations and Wi-Fi
- Real-time information and signage
- Lighted crosswalks and trail count stations
- Solar powered street furniture
- Speed alert signage
- Connected vehicle technology



Example: MyWaddle - Walking School Bus App

“Walking School Bus”

- Completed as part of Georgia Smart Communities Challenge
- Grant funding to explore technological applications to transportation challenges
- Mobile phone app for parents to coordinate walks to school among groups of students, with parent volunteers as chaperones
- App allows for real-time group communication among parents
- Partnership with Safe Routes to School program at area schools



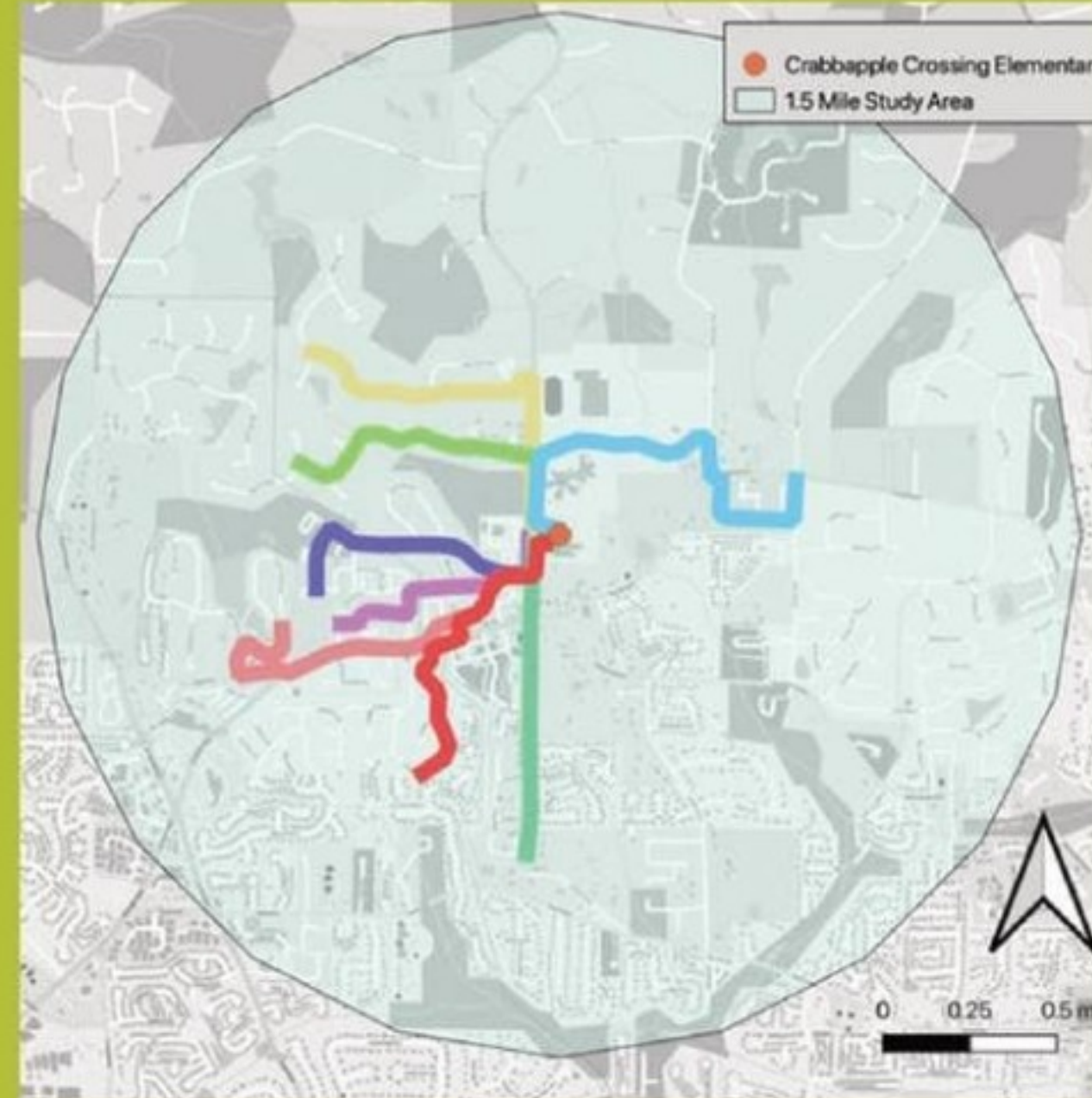
Students and parents using a crosswalk near Crabapple Crossing Elementary School in January 2020

Project completed in collaboration with Georgia Tech

Walking School Bus

App Features

- Grouping
- Scheduling
- Supervising
- Tracking
- Messaging
- Notification



Learn More:

<https://www.cityofmiltonga.us/Home Components/News/News/507/16>

Other Potential Applications

- **Traffic Applications**

- Flashing Yellow Arrow (FYA) traffic signals
- Speed warning and detection signs
- Leading Pedestrian Intervals (LPIs) for crosswalks

- **Pedestrian Applications**

- Audible beacons for crosswalks
- Pedestrian Hybrid Beacons (PHBs)
- Rapid Rectangular Flashing Beacons (RRFBs)

- **Additional Technologies**

- Changeable Message Signs (CMS)
- Solar powered street furniture
- Electric vehicle (EV) charging stations
- Strengthening broadband network and information sharing





Live Polling Question



Which of the potential smart cities technology applications are you most excited about exploring in Milton? Name up to three.



Q&A with Audience

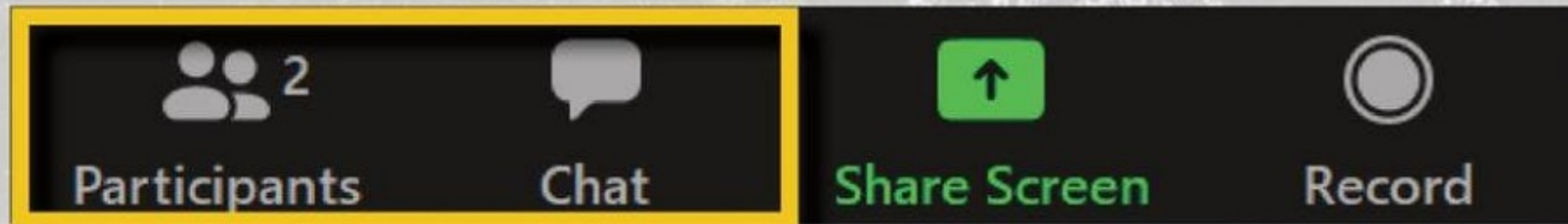
Guidelines for Participation

- 1. Speak from your own perspective using “I” statements.**
- 2. Respect others’ viewpoints while listening respectfully and intently.**
- 3. Stay focused on the discussion at hand.**
- 4. Ask questions.**
- 5. Be patient with one another as we talk.**
- 6. Use the “raise hand” feature as well as the chat box on Zoom.**
- 7. Use the comment box on Facebook.**

Guidelines for Participation

- **For ZOOM App users by Computer, Tablet and Smartphone:**

- ***Click Participants in your Meeting controls at the bottom of your screen, and click 'Raise Hand'***

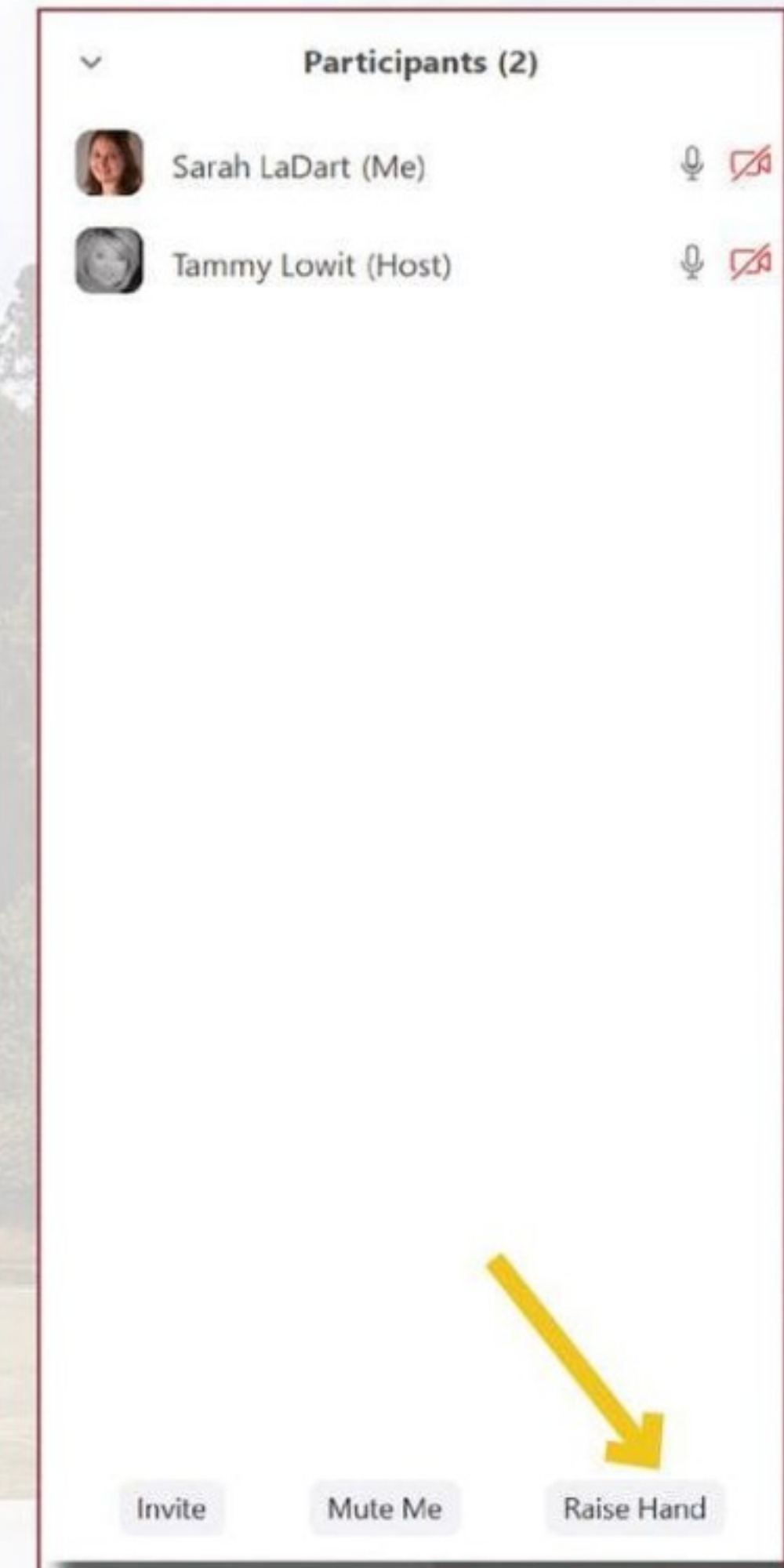


- **For Callers using telephones:**

- ***To Raise Hand - Press *9***
- ***To Unmute - Press *6***

- **For Facebook users by Computer, Tablet and Smartphone:**

- ***Type thoughts and questions in comment box. Questions will be answered within a day.***



Engagement Opportunities

CPAC Meeting: Transportation & Sustainability

March 25th

Live on Zoom: <https://zoom.us/j/98799979340>

Virtual Public Workshop #1 : Land Use & Character Areas

April 1st-14th

www.cityofmiltonga.us/engagement

Hot Topic Questions

Interactive Map Activity

Thank you!

