

UPPER MACUNGIE TOWNSHIP

Trail Connectivity & Walkability Plan

Public Meeting #3 – September 13, 2022

Please note this presentation is being recorded.

During the presentation feel free to type questions in the Q&A box. We will answer question during the Q&A session after the presentation.

Agenda

1. Introductions
2. Plan Foundation
3. Review of Public Participation Component
4. Site Analysis
5. Use of the Improvement Toolbox
6. Application of the Toolbox - UMT Masterplan
7. 'A Closer Look...' (Specific Locations)
8. Costs
9. Funding Opportunities
10. Draft Report

Project Consultants

Simone Collins Landscape Architecture

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Bryce Brucker

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610.239.7601

Spotts, Stevens McCoy

Mark Stabolepszy, PE

Mark.stabolepszy@ssmgroup.com

Project Committee

Jenna Azar	
Anitha Baru	Youth Association
Michael Beidler	Youth coach
Janet Bushinsky	Hiking, nature, birding, land naturalization
Byron Cook	Avid cyclist and walker
Steve Crampton	Avid cycling and hiker
Courtney David	Distance runner; avid user of trails
Amir Famili	Soccer Coach
Karen Fitzpatrick	
Kerri Green	
John Helffrich	Bicycling
Tim Helmer	UMT Planning Commission
Scott Johnson	
Suresh Jonnalagadda	
Matthew Joseph	Walking and running
Craig Kauffman	Avid hiking, backpacking; Boy Scouts
Thomas Male	Avid hiker and bicycler
Mandy Marquardt	Bicycling
Gwen McCurdy	Avid runner/walker - Lehigh Valley Road Runners
Paul McNemar	UMT Planning Commission; Firefighter
Gail Micca	Cycling, youth fitness
Tricia Mohr	Running, walking, biking
Abigail Pasterski	Trail user
Bradley Reese	Outdoor enthusiast
Meg Schlauch	Walking
Yvonne Schweighardt	Park Development
Janet Shultz	Walk 4+ miles every day
Lora Spangler	
Christopher Strohler	
Christopher Svetcov	Passion for hiking and the outdoors
Jennine Thomas	

Project Schedule

- 4 Public meetings
- 5 Committee meetings
- 15 Key Person Interviews
- 2 Meetings w/ PennDOT
- Opinion Survey (*Closing Tomorrow!*)
- Wikimapping (*Closing Tomorrow!*)
- Press Releases
- Township Staff meetings



	February	March	April	May	June	July	August	September	October	November
Review background data and previous studies	█									
Site Reconnaissance	█	█		█			█			
Obtain and set up base mapping	█	█								
Existing Roadway, Sidewalk inventory and mapping		█	█	█						
Existing Trail / Trail Plans inventory and mapping / Strava data		█	█	█						
Access ADA accessibility issues / locations		█	█	█						
Create sidewalk gap plan				█	█	█				
Create trail gap plan				█	█	█	█			
Conceptual wayfinding signs locations						█	█	█		
Concept cost estimates for proposed improvements						█	█	█		
Prioritize improvements						█	█	█		
Funding Strategy / Implementation Strategy						█	█	█		
Write and Assemble Walkability and Bikeability Report						█	█	█		
Draft Plan								█		
Thirty (30) day draft plan review									█	
Revisions to create final plan										█
Final Plan										█
Public Participation										
Public Meeting #1 - information gathering / brainstorming	22nd █									
Public Meeting #2 - preliminary plan concepts				31st █						
Public Meeting #3 - draft plan								█		
Public Meeting #4 - final plan									█	
Committee Meeting #1 - information gathering / brainstorming	8th █									
Committee Meeting #2 - preliminary plan concepts				10th █						
Committee Meeting #3 - refined concepts							12th █			
Committee Meeting #4 - pre draft plan							16th █			
Committee Meeting #5 - agree on revisions for final plan report									11th █	
Write and administer public opinion survey		█	█	█	█	█	█	█	█	
Set Up and administer Wiki Mapping Interactive mapping tool		█	█	█	█	█	█	█	█	
Key Person / Agency Interviews (15)		█	█	█	█	█	█	█	█	
Meeting with LVPC									█	
Meetings (2) with PennDOT District 5-0			█						█	
Coordination with Township staff	█	█	█	█	█	█	█	█	█	█



Background Data – Plan Foundation

WALK/ROLL LV Active Transportation Plan

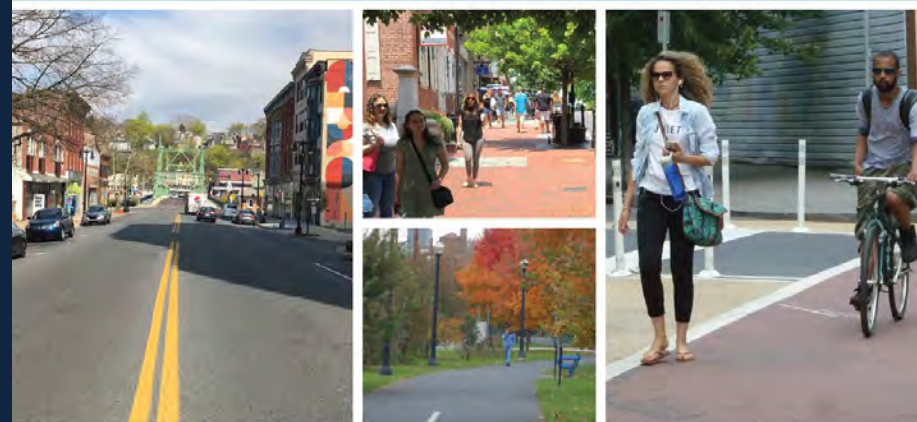


Upper Macungie Township 2019 Comprehensive Plan

Lehigh County, Pennsylvania



A Plan for Growth Management and Preservation



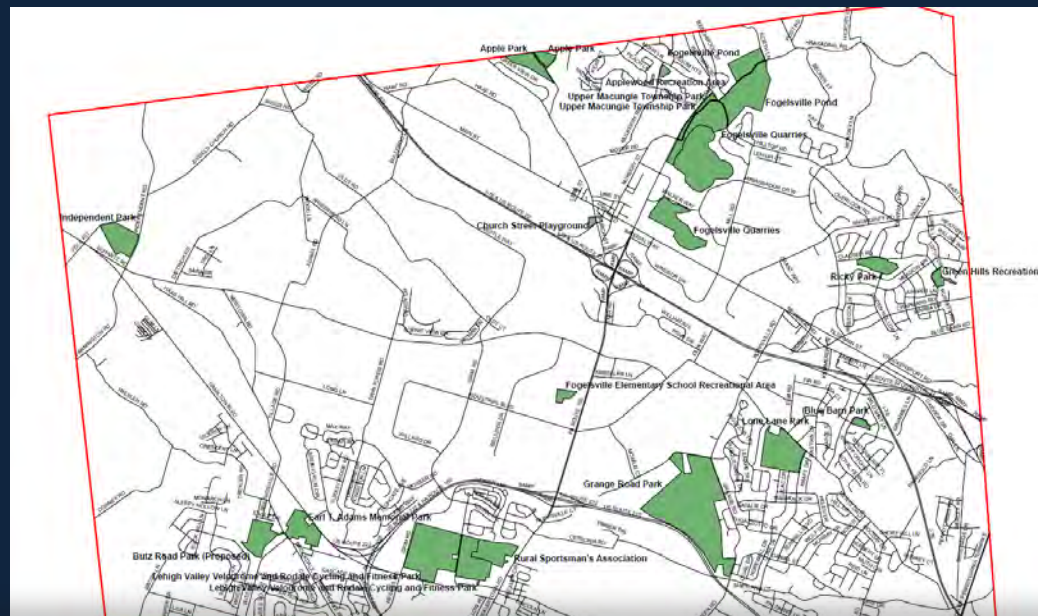
Adopted by Lehigh Valley Planning Commission: May 30, 2020
Adopted by Lehigh Valley Transportation Study: June 3, 2020



Lehigh Valley Trails Inventory – 2013 Lehigh and Northampton Counties



Lehigh Valley Planning Commission
May 2013



Design Guidelines - Plan Foundation

Pennsylvania Trail Design & Development Principles
Guidelines for Sustainable, Non-motorized Trails

U.S. Department of Transportation
 Federal Highway Administration

Statewide Pedestrian and Bicycle Planning Handbook

U.S. Department of Transportation
 Federal Highway Administration

Maintenance Practices and Costs of Rail-Trails

U.S. Department of Transportation
 Federal Highway Administration

Accessibility Guidebook for Outdoor Recreation and Trails

U.S. Department of Transportation
 Federal Highway Administration

SEPARATED BIKE LANE PLANNING AND DESIGN GUIDE

U.S. Department of Transportation
 Federal Highway Administration

Designing Streets for Kids

Global Designing Cities Initiative

Trails for All People

Guidance for Accessibility and Inclusive Design

We Conserve PA

Small Town and Rural Multimodal Networks

U.S. Department of Transportation
 Federal Highway Administration

Incorporating On-Road Bicycle Networks into Resurfacing Projects

U.S. Department of Transportation
 Federal Highway Administration

Don't Give Up at the Intersection

Designing All Ages and Abilities Bicycle Crossings

U.S. Department of Transportation
 Federal Highway Administration

User Groups – Plan Foundation

Pedestrians



Active Lifestyle



Experienced



Cyclists

Casual



Child



Other Users





Public Participation Process



Public Participation Process

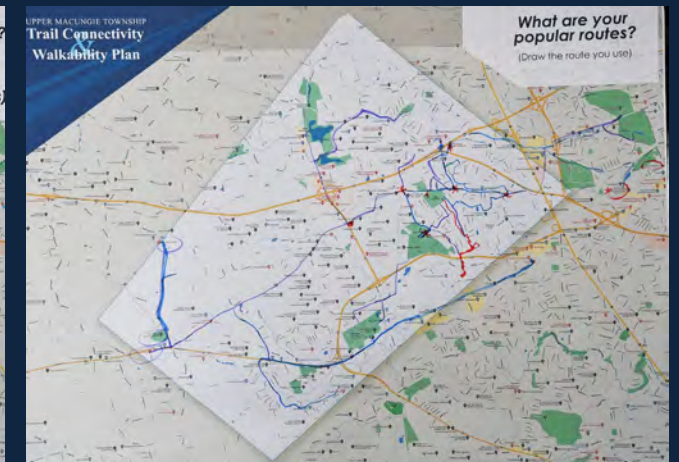
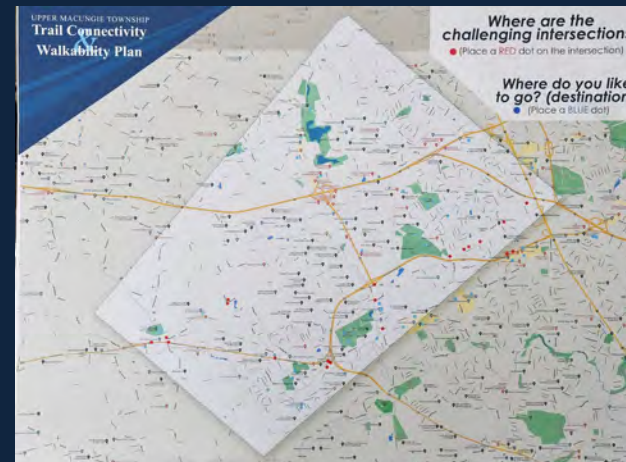
- Committee Meetings
- Public Meetings
- Key Person Interviews
- Meeting with Township
- Field work
- Site Walk with Committee Members
- Site Ride with Committee Members
- Online Survey
- Wikimapping

- 4 Committee meetings to date



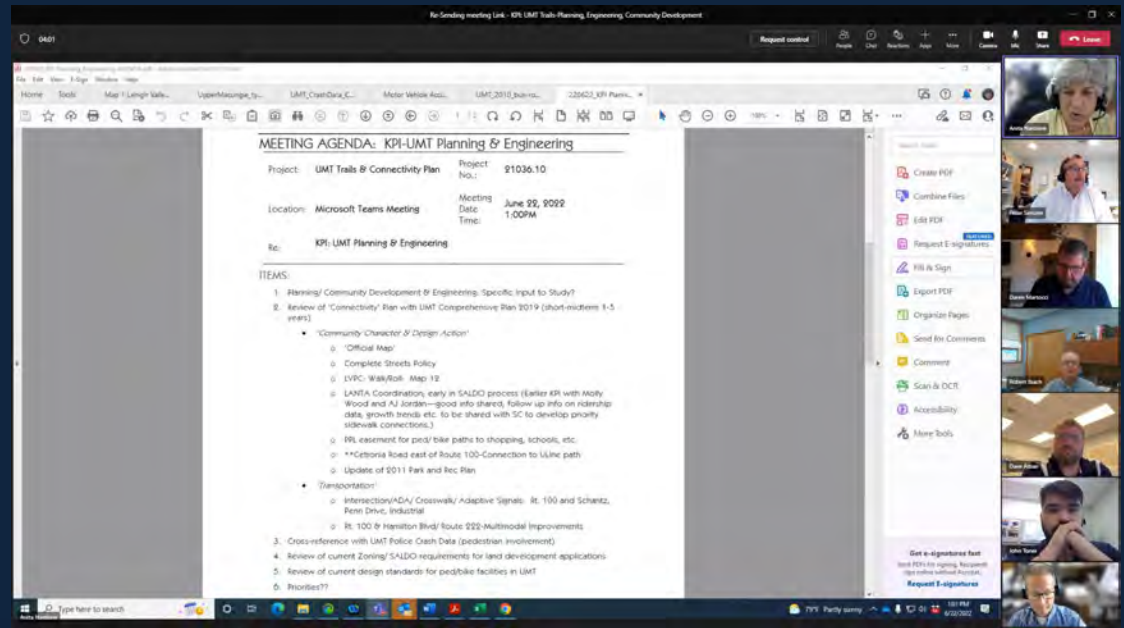
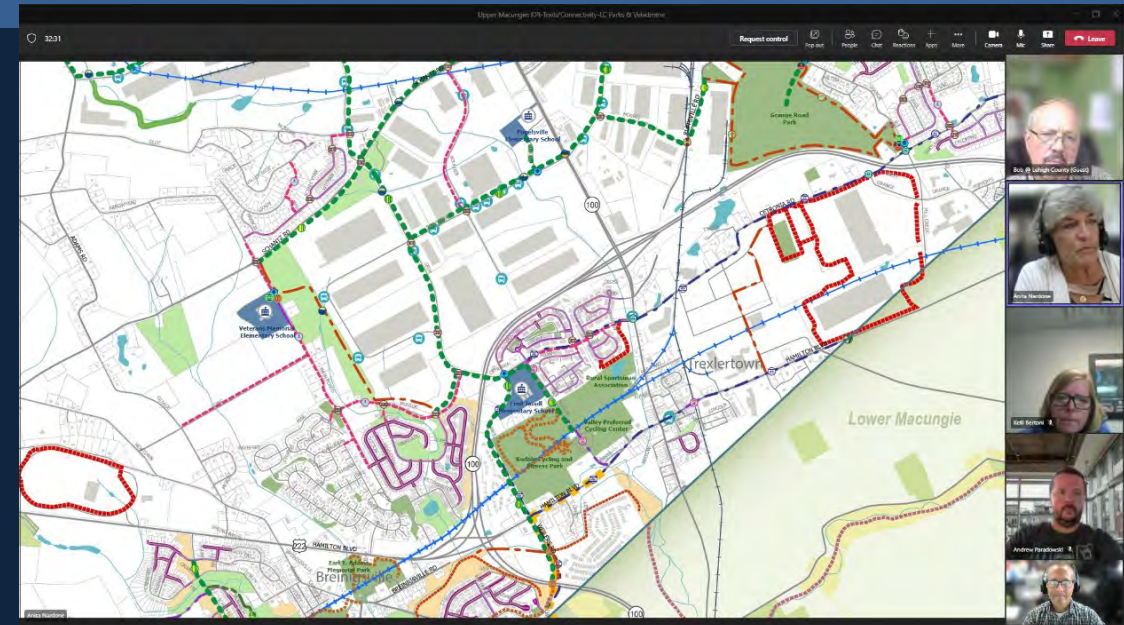
Public Participation Process

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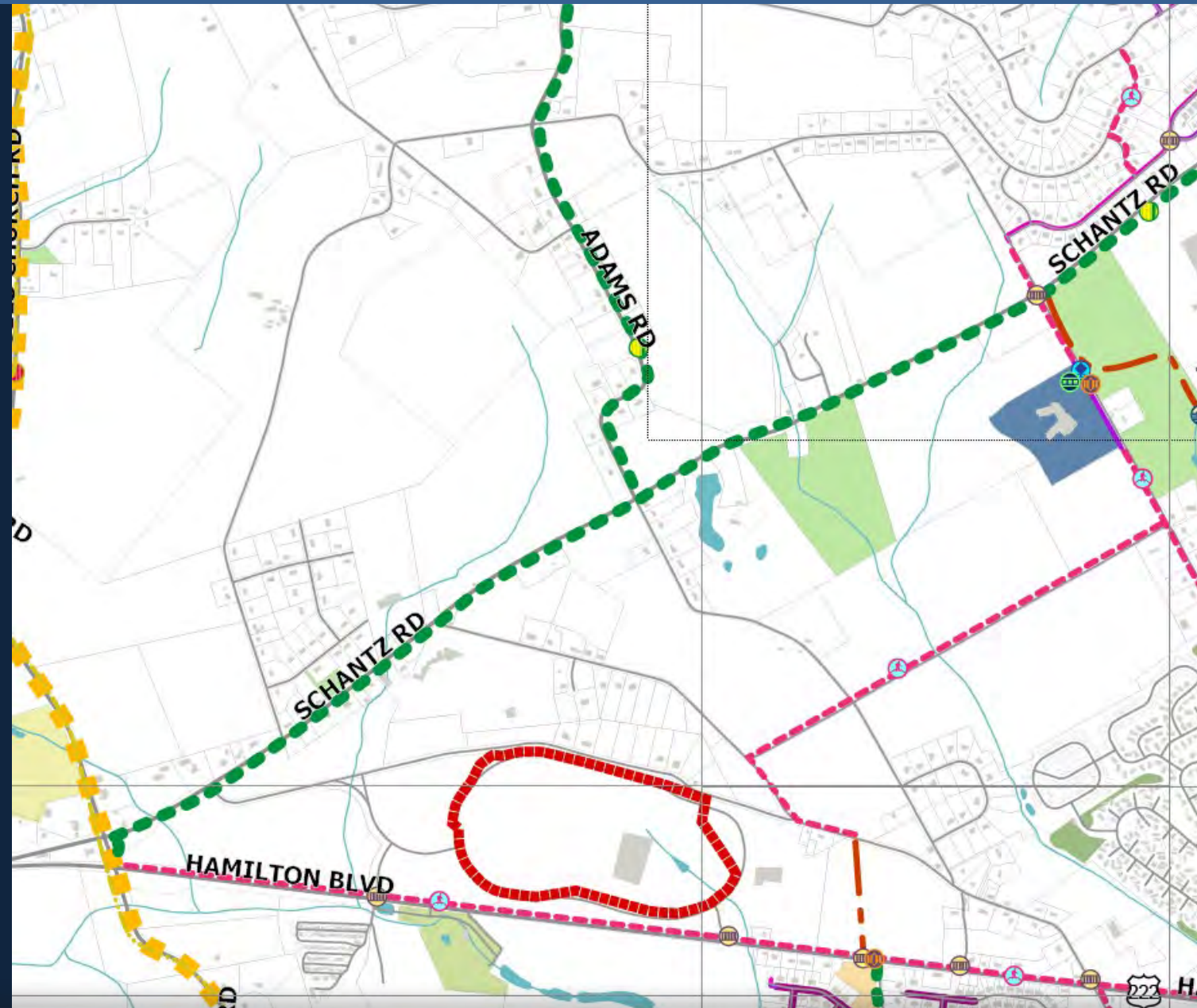
Public Participation Process

- Committee Meetings
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- UMT Police Department
- UMT Planning & Engineering
- UMT Recreation/ Parks & Recreation Board
- UMT Planning Commission
- LANTA (Lehigh and Northampton Transit Authority)
- Lehigh Valley Planning Commission (LVPC)
- Parkland School District
- Lehigh County Parks (Rodale Cycling Center)
- Lower Macungie Township
- ProLogis
- ULine
- Jaindl Land Company
- Homeowners Associations
(TrexlerFields, HighGate, Terrace at Lehigh)
- PennDOT
- Youth Associations (not completed)

Public Participation Process

- Committee Meetings
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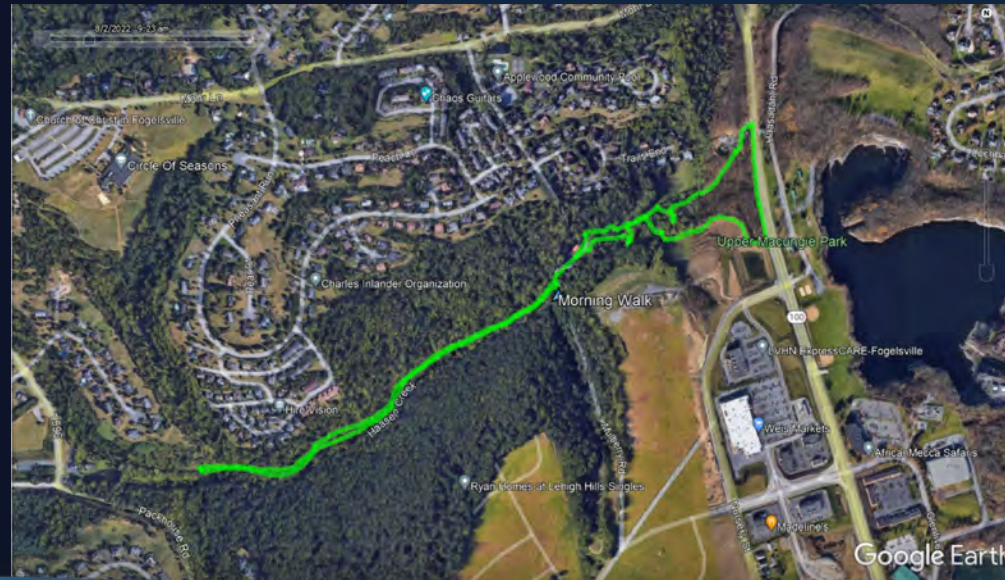
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Public Participation Process

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Public Participation Process

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Public Participation Process

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- CM2 May 12th=124 Total Respondents
- CM3 July 12th = 184 Total Respondents
- CM4 August 16th = 220 Total Respondents
- PM3 September 13th = **226** Total Respondents
- Summary Categories
 1. Demographics: 60% respondents UMT residents >10 years
 2. Transportation & Mobility- General: 50% feel uncomfortable walking under current conditions; want off-road trails and sidewalks!
 3. Transportation & Mobility- School/Work: No interest in walking/ biking under current conditions
 4. Education: Modest interest in adult motorist education
 5. General Issues and Concerns: After 'lack of pedestrian connections', traffic is the largest concern

Public Participation Process

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1. CONNECTING NEIGHBORHOODS TO PARKS, OTHER NEIGHBORHOODS, RETAIL

- Lone Lane Park & Grange Park: Crossings and Connections (Schantz Road)
- Cetronia Road
- Retail Connections Desired: Hamilton Crossing & Trexlertown Plaza
- Add'l Mentions: Blue Barn Road, Bastion Lane, Memorial Road, Applewood, Rodale, connection to Jordan Creek Greenway

2. TOO MUCH TRAFFIC; TOO MANY WAREHOUSES

3. OFF-ROAD TRAILS (LONGER STRETCHES) FOR BIKING AND WALKING

Public Participation Process

- Committee Meetings
- Public Meetings
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Upper Macungie Township would like to get your input into trail connections, pedestrian connections and bicycle routes as part of the current 'Connectivity & Trails' study taking place in the Township.

Click 'Add Routes' to draw desired bike routes sidewalks, and trails.

Click 'Add Points' to note locations of desired destinations, sidewalk gaps, desired crosswalk locations challenging areas, and areas of safety concern.

Upper Macungie Trails Welcome Share 0

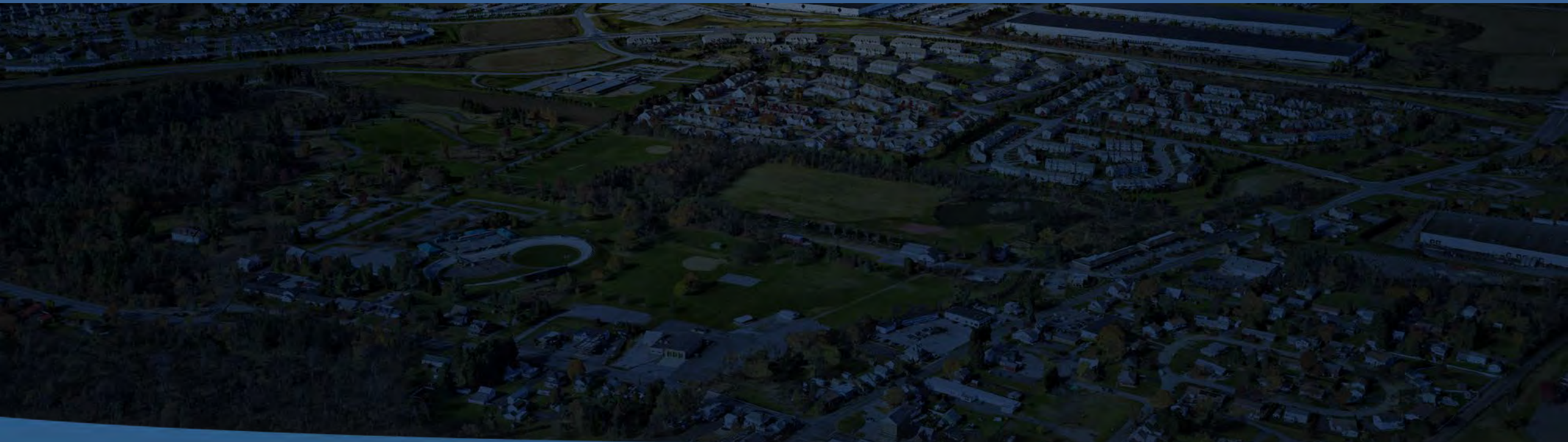
View Options

- Turn On/Off layers
- Turn On/Off Other People's Responses
- Barriers to connectivity
- Desired Bike Route
- Desired Sidewalk
- Desired Trail
- All other comments
- Barriers to connectivity
- Challenging Area
- Cultural/Historical location
- Desired destinations
- Desired location for crosswalk
- Sidewalk Gap location

© WikiMapping | © Mapbox | © OpenStreetMap | Improve this map

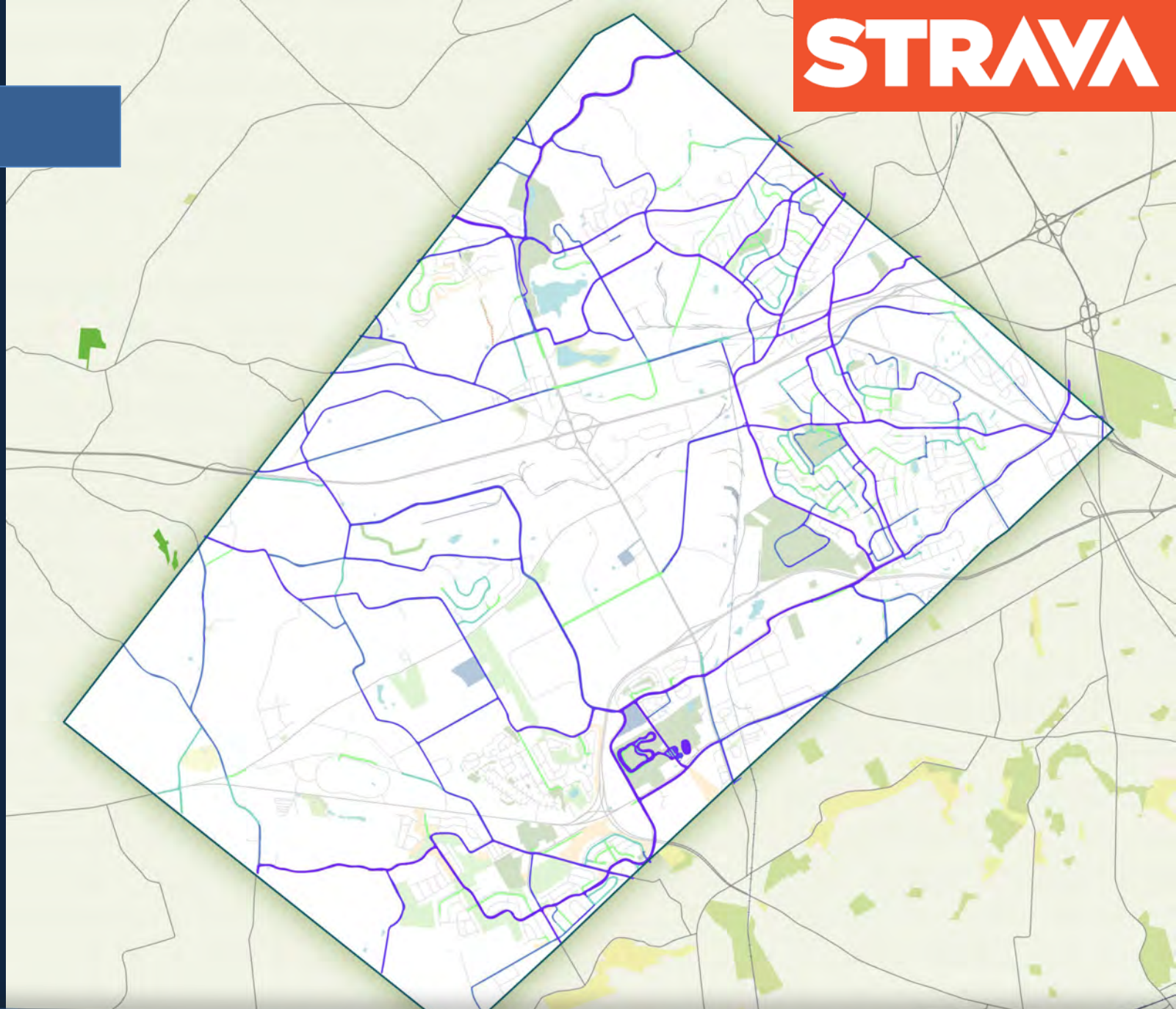


Site Analysis



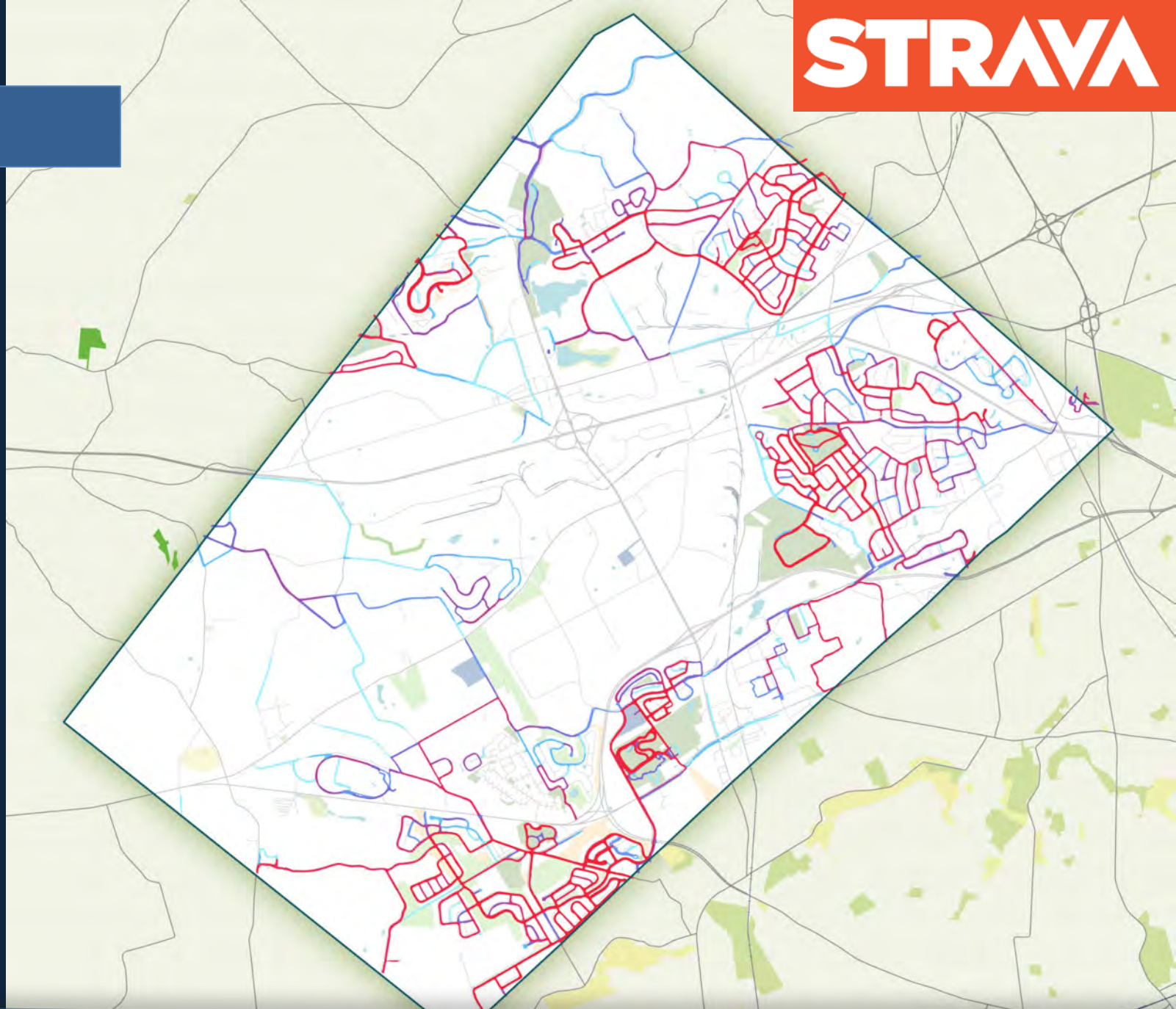
STRAVA - Heatmaps

- Ride Data



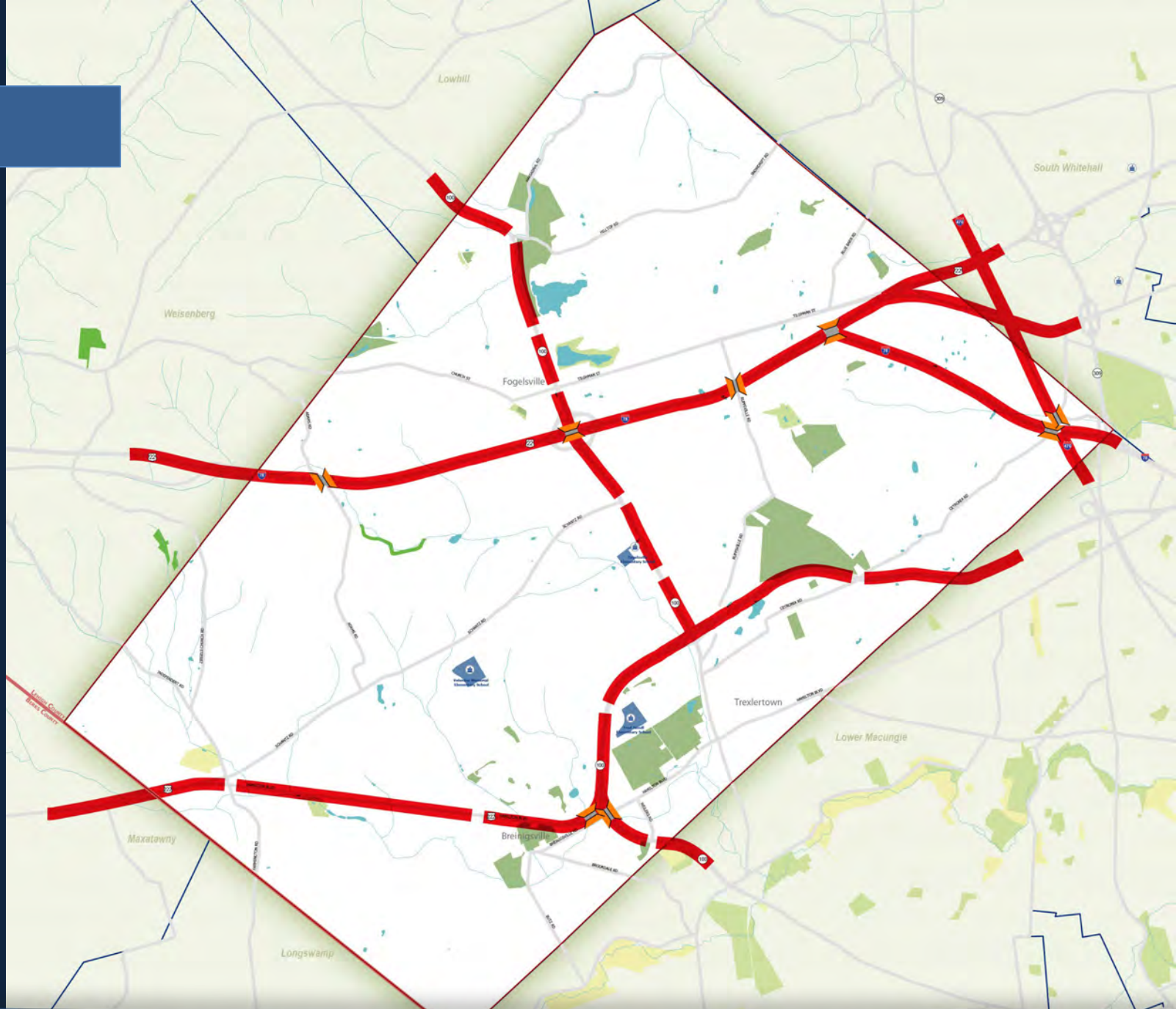
STRAVA - Heatmaps

- Run Data



Barriers

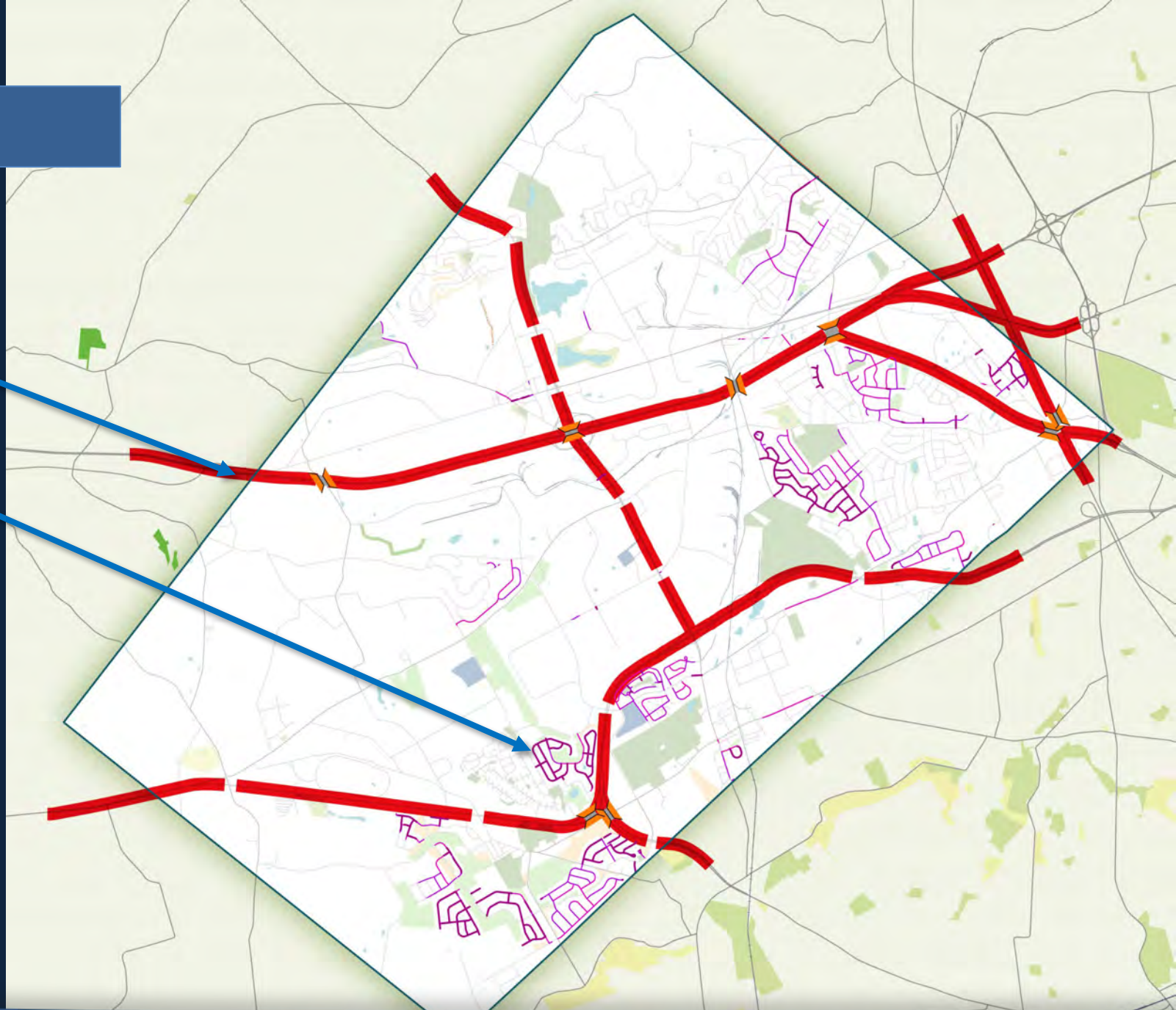
- Interstate 78
- Highway 222
- 476
- SR 100
- SR 309



Barriers & Sidewalks

Barrier

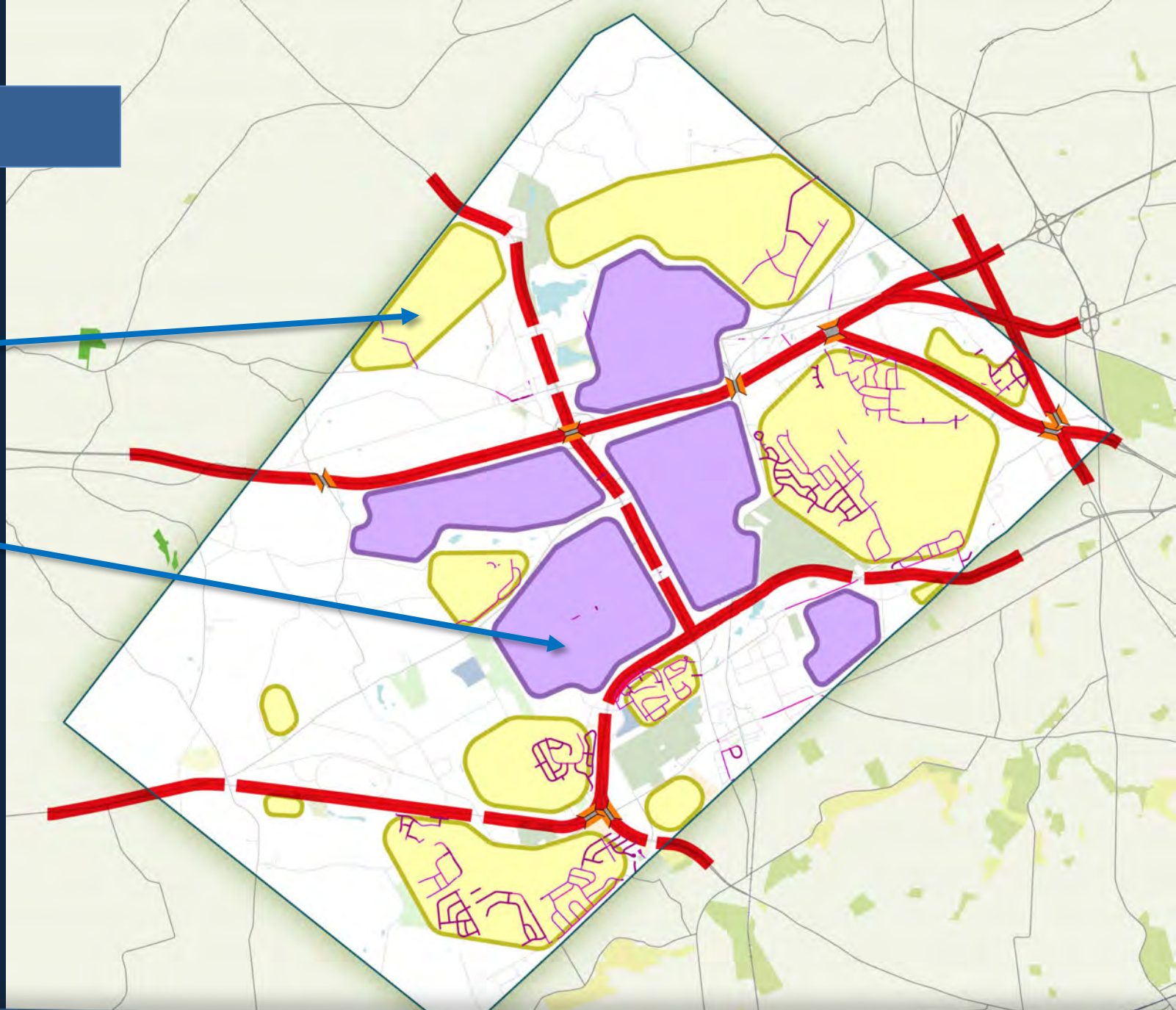
Existing Sidewalks



Residential & Commercial

Residential
Areas

Commercial
Areas





Toolbox Review



Improvement Toolbox

-  Sidewalk
-  Crosswalk
-  Decorative Crosswalk
-  Special Crossing
-  Speed Table
-  Speed Cushion
-  Rapid Flashing Beacon
-  Hand Man
-  Pedestrian Refuge Island
-  Multi-Use Trail
-  Side Path
-  Painted Shoulder
-  Sharrow
-  Bicycle Lane
-  Bicycle Boulevard
-  Bicycle Box
-  Bicycle Parking
-  Speed Limit Reduction
-  Tunnel
-  Large Bridge
-  Small Bridge
-  Hiking Trail





Multi-Use Trail



Side Path

Existing: Schaefer Run Rd



Bike Lane

Existing Bike Lane on Cetronia Rd





Special Crossing



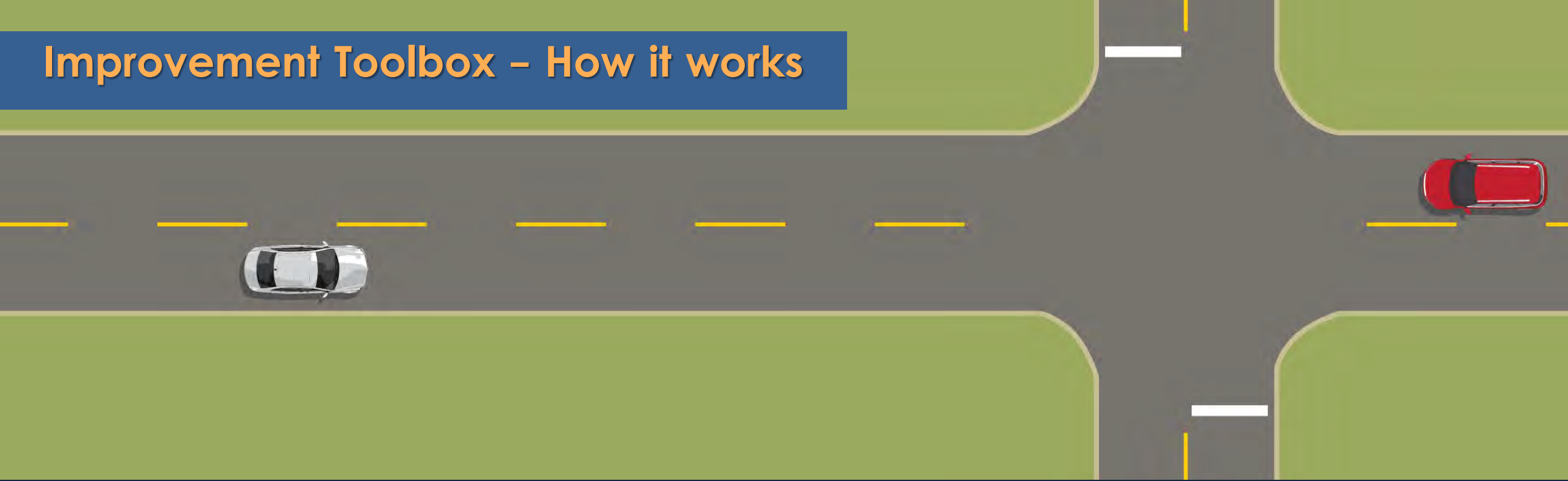
Speed Cushion



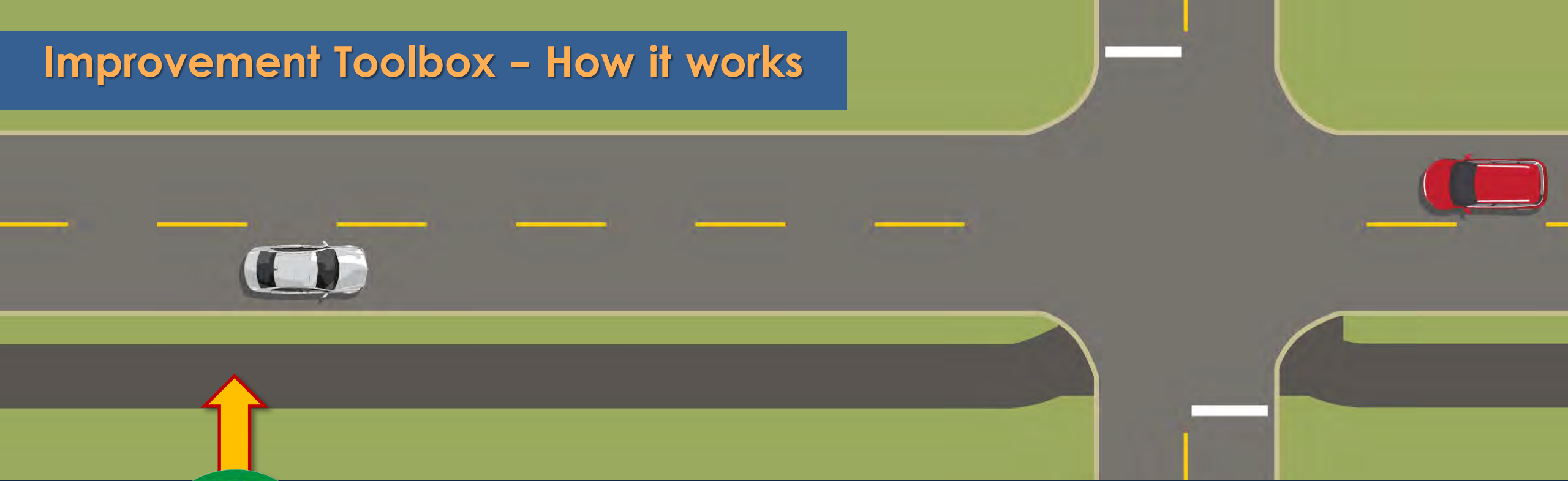
Sidewalk



Improvement Toolbox – How it works



Improvement Toolbox – How it works



Side Path

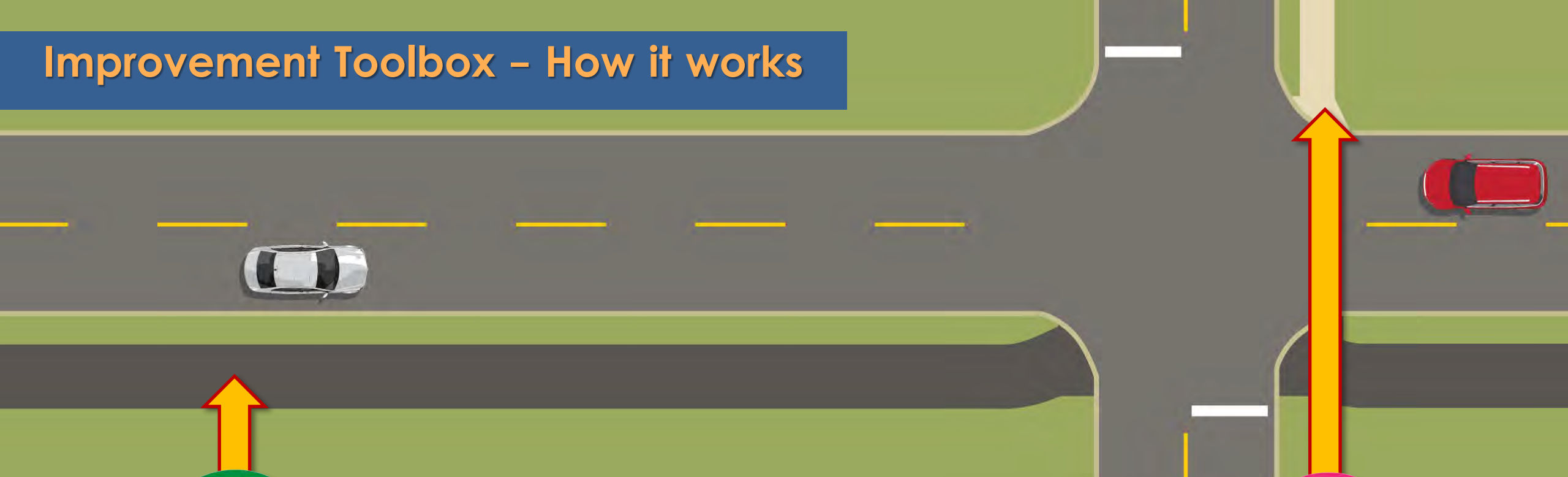
Improvement Toolbox – How it works



Side Path



Sidewalk



Improvement Toolbox – How it works



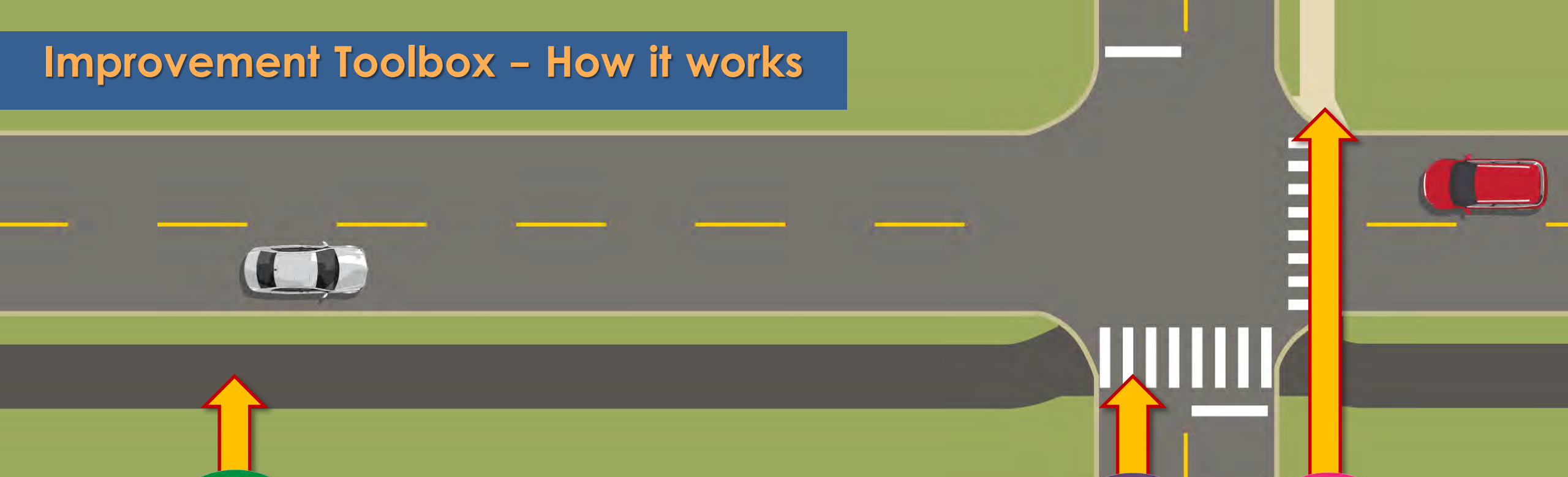
Side Path



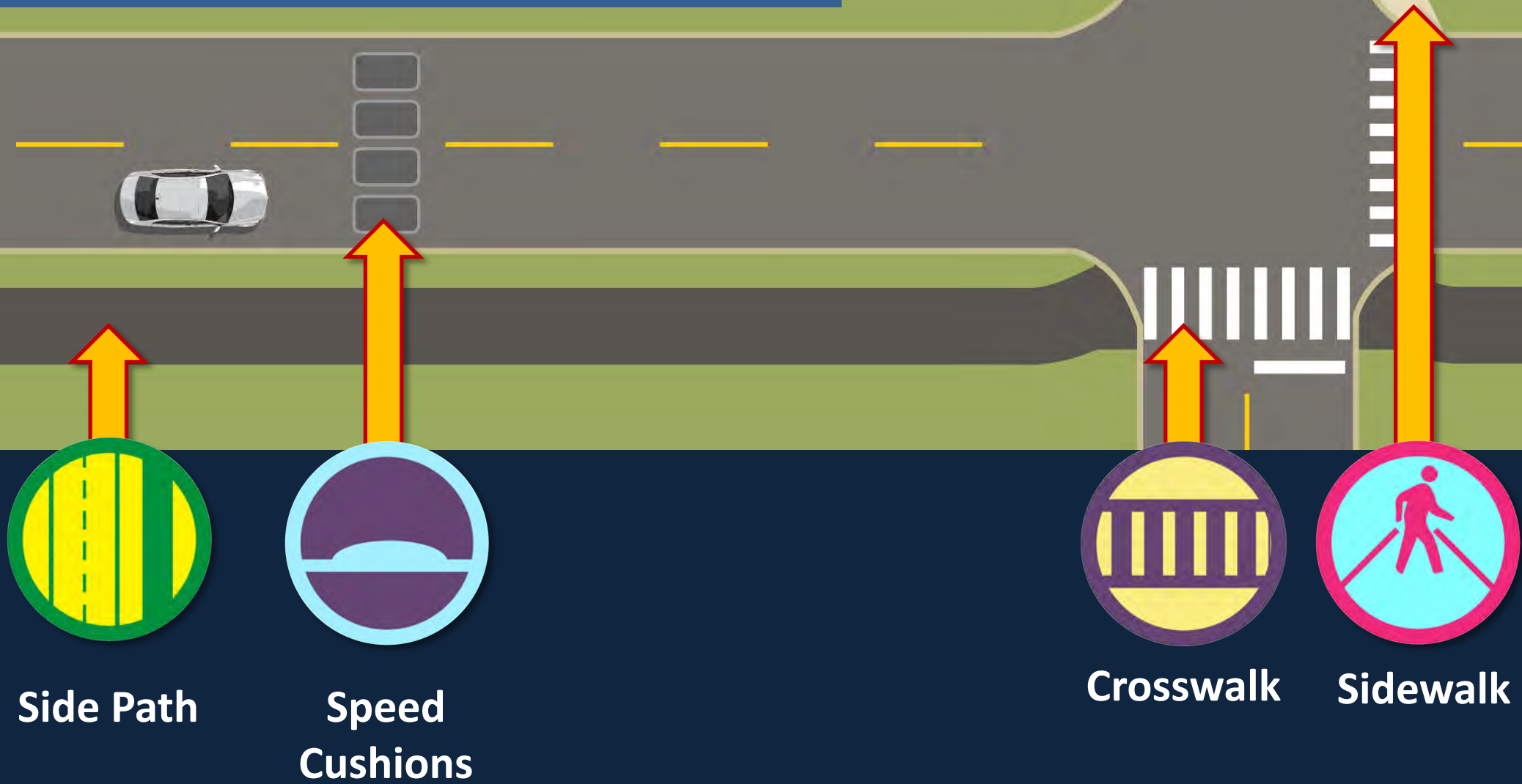
Crosswalk



Sidewalk



Improvement Toolbox – How it works



Side Path

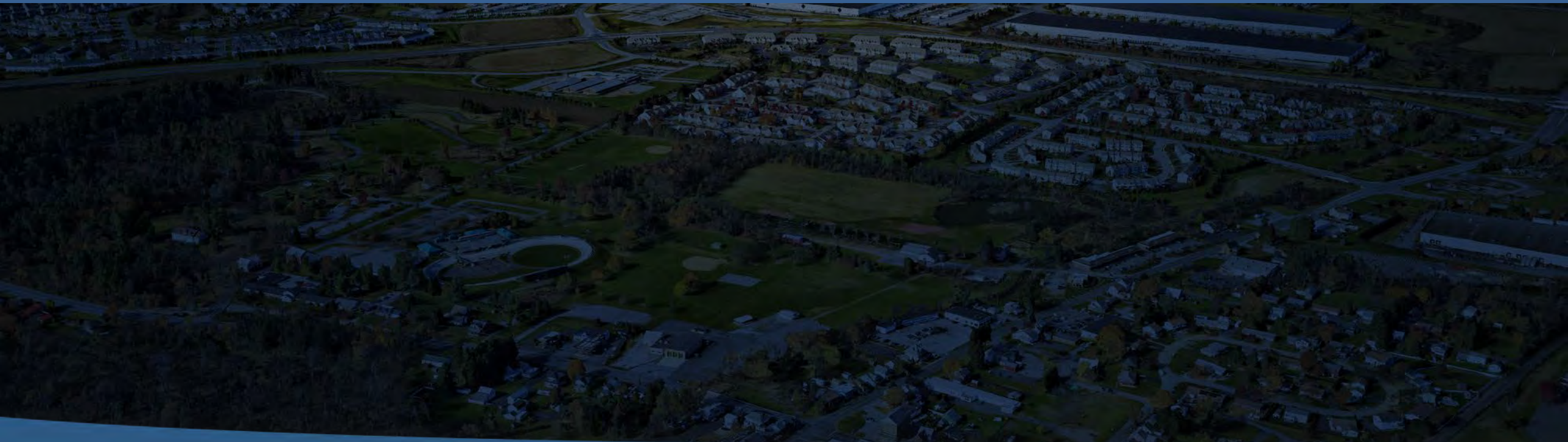
Speed
Cushions

Crosswalk

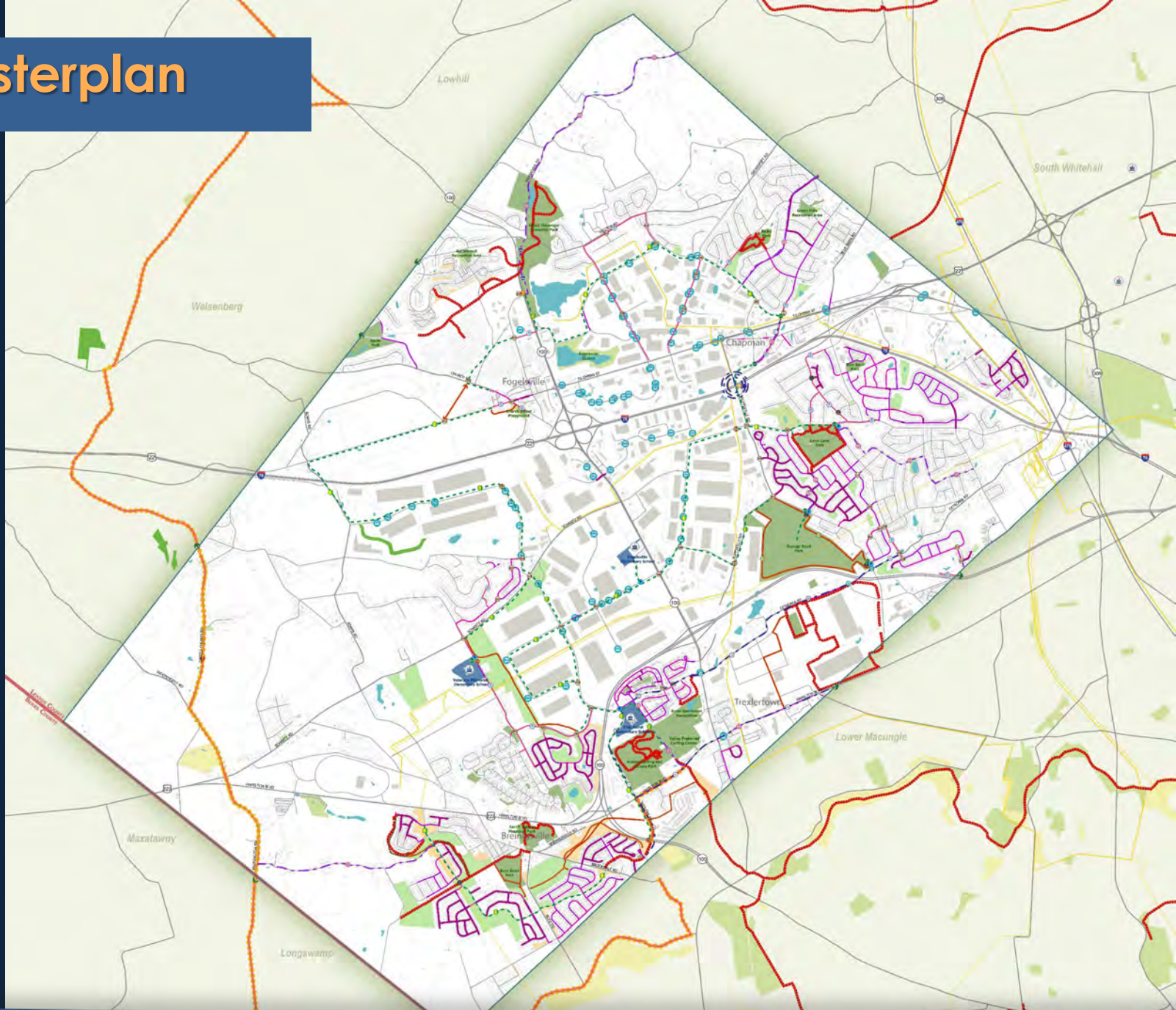
Sidewalk



Draft Plan



Improvement Toolbox – Masterplan



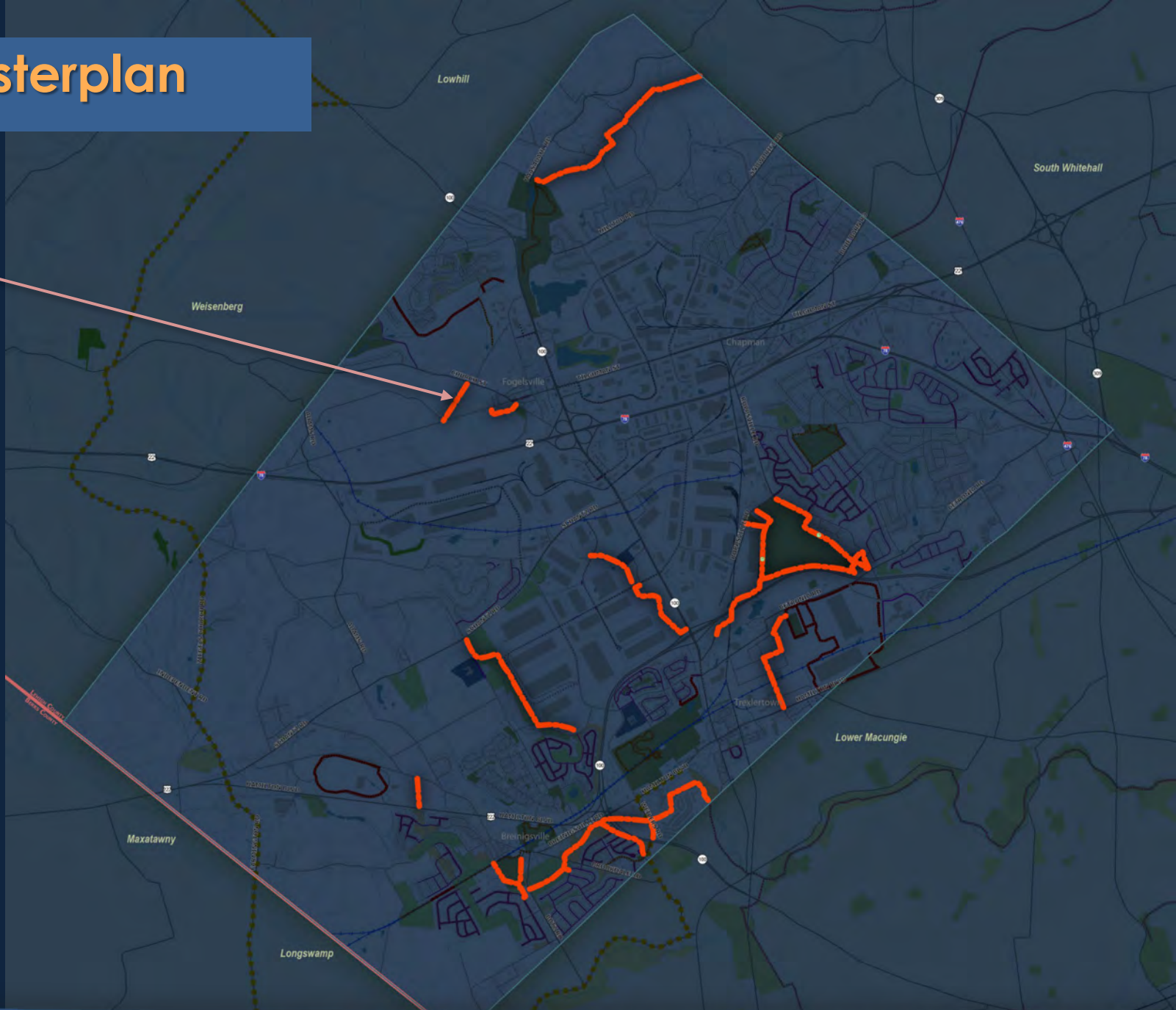
Improvement Toolbox – Masterplan



Improvement Toolbox – Masterplan



Multi-use Trail



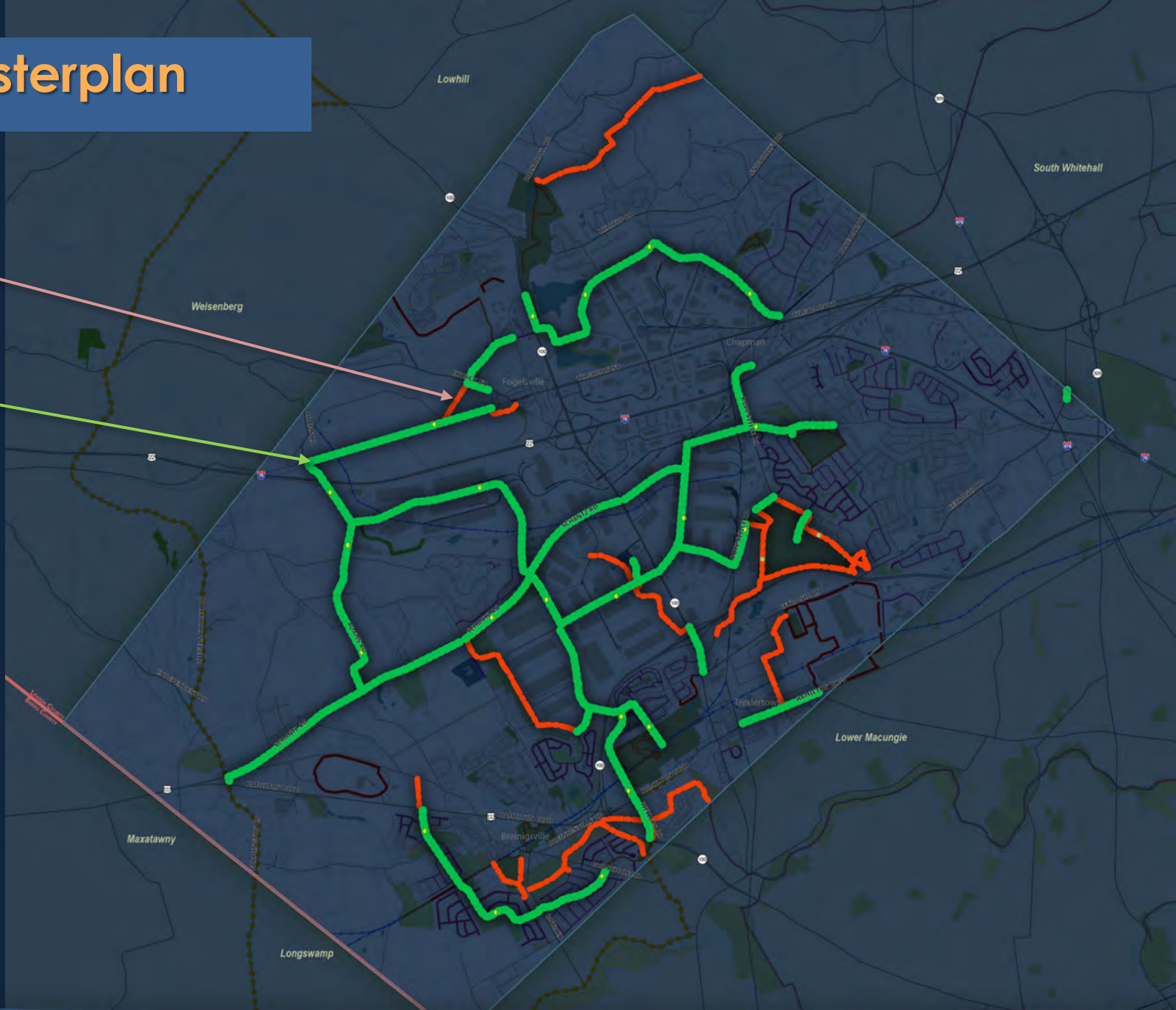
Improvement Toolbox – Masterplan



Multi-use Trail



Side Path



Improvement Toolbox – Masterplan



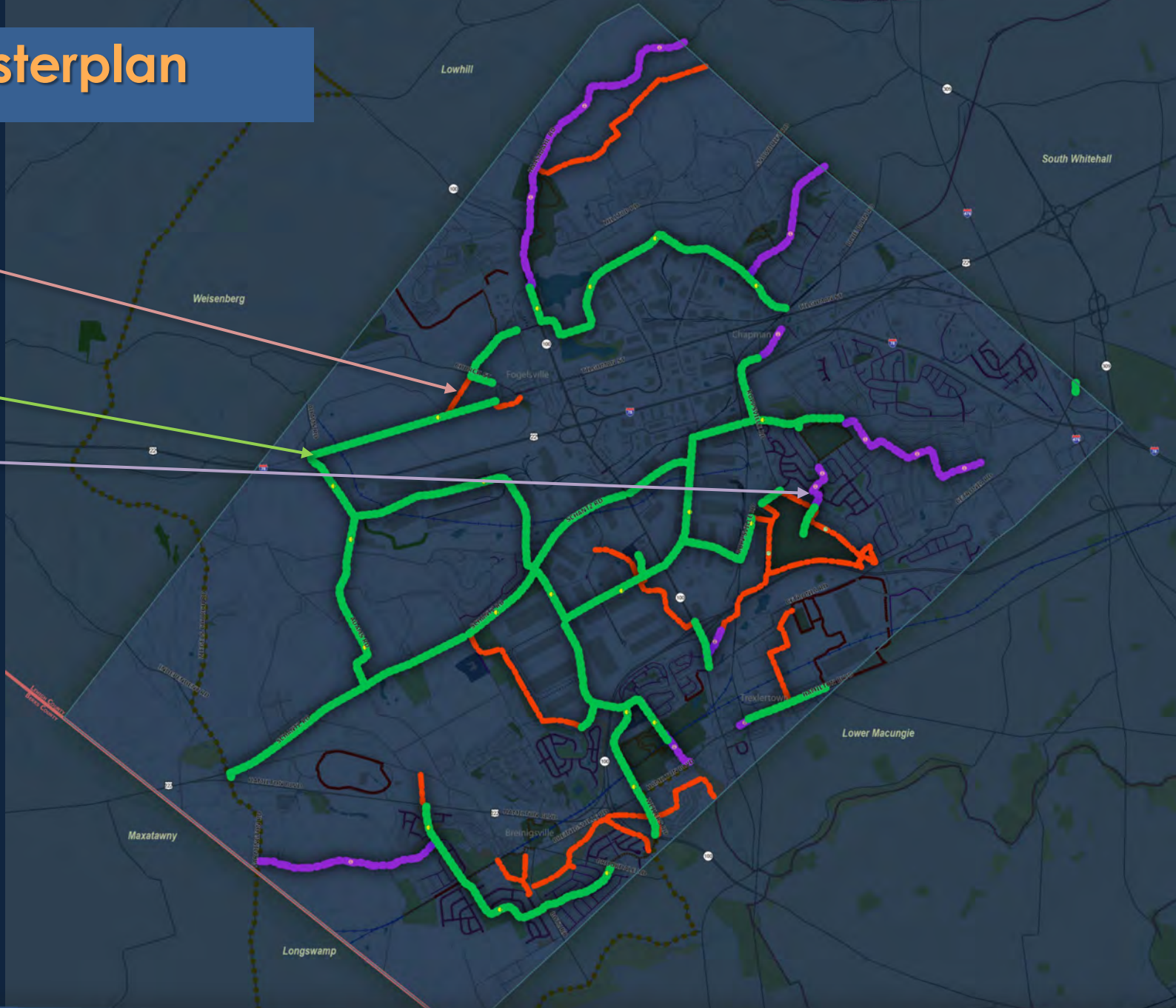
Multi-use Trail



Side Path



Sharrows



Improvement Toolbox – Masterplan



Multi-use Trail



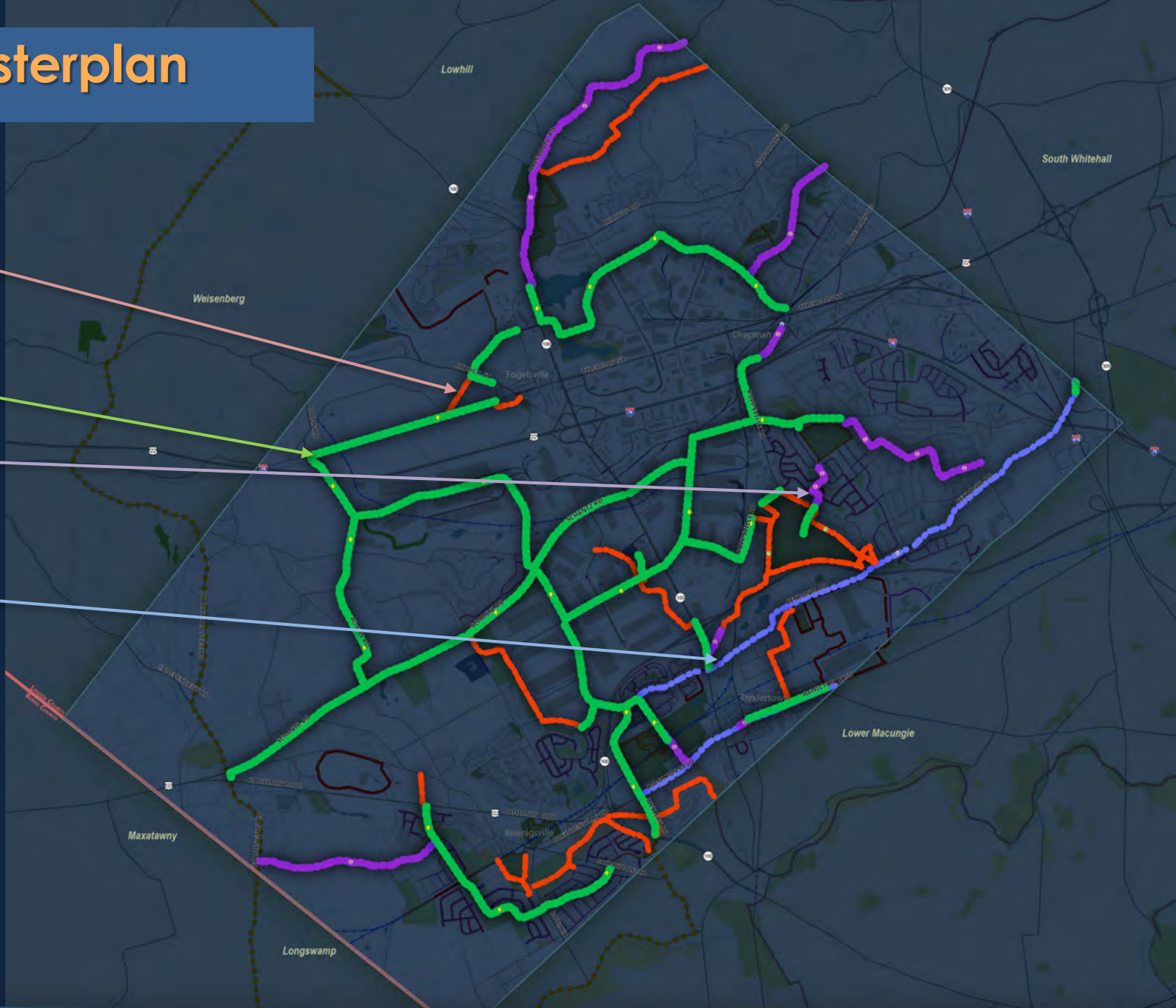
Side Path



Sharrow



Bike Lane



Improvement Toolbox – Masterplan



Multi-use Trail



Side Path



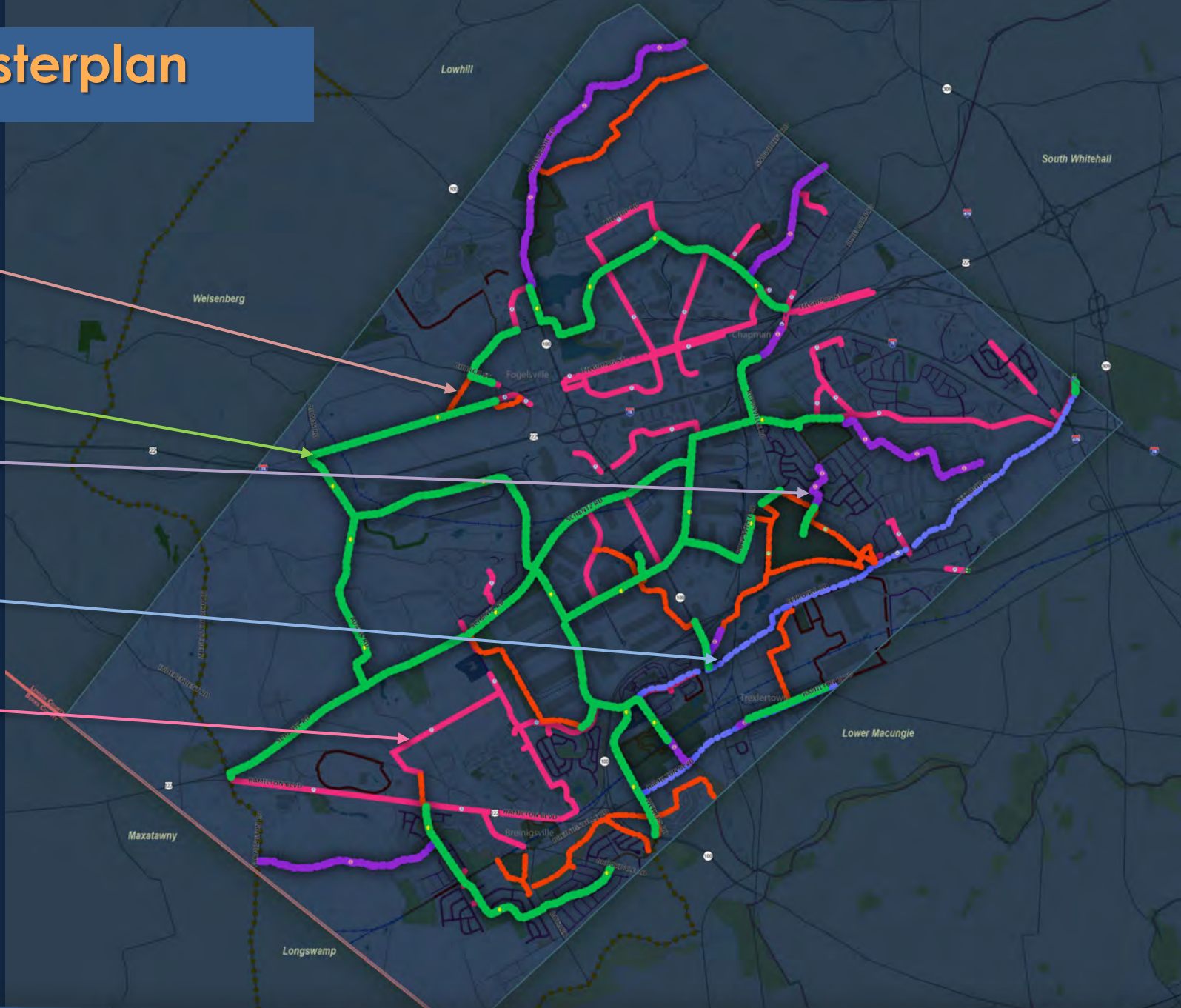
Sharrow



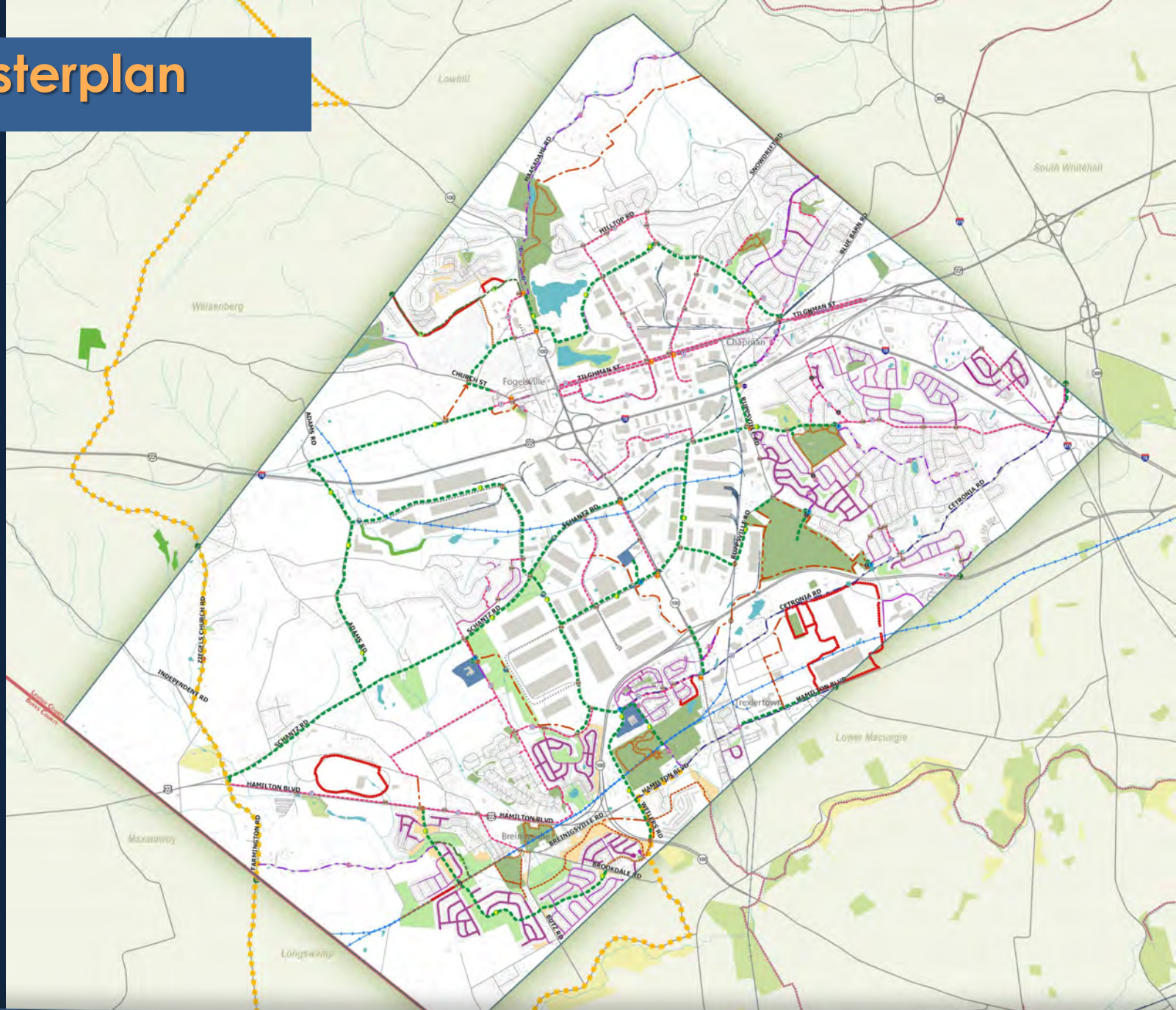
Bike Lane



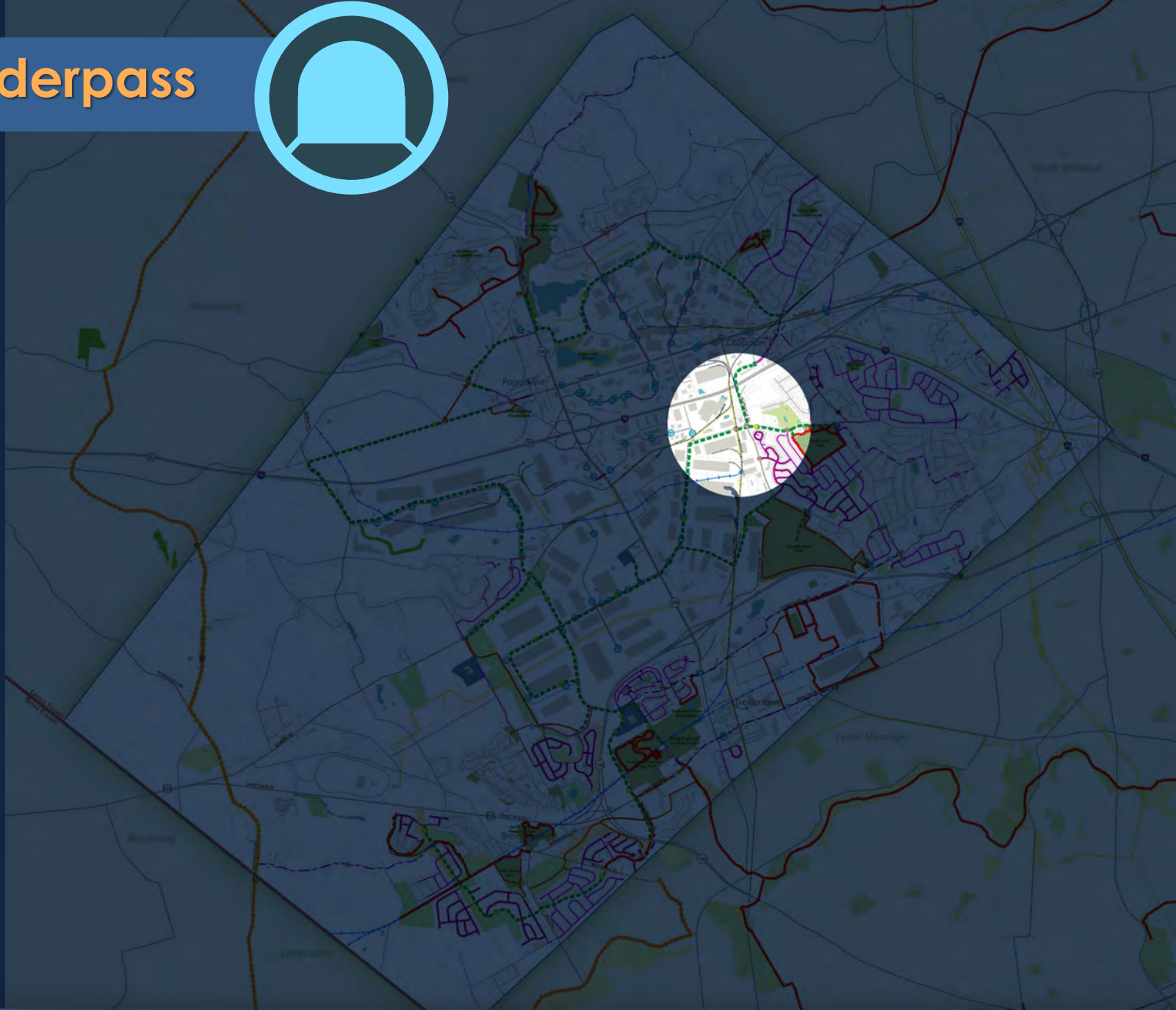
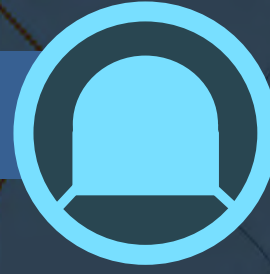
Sidewalk



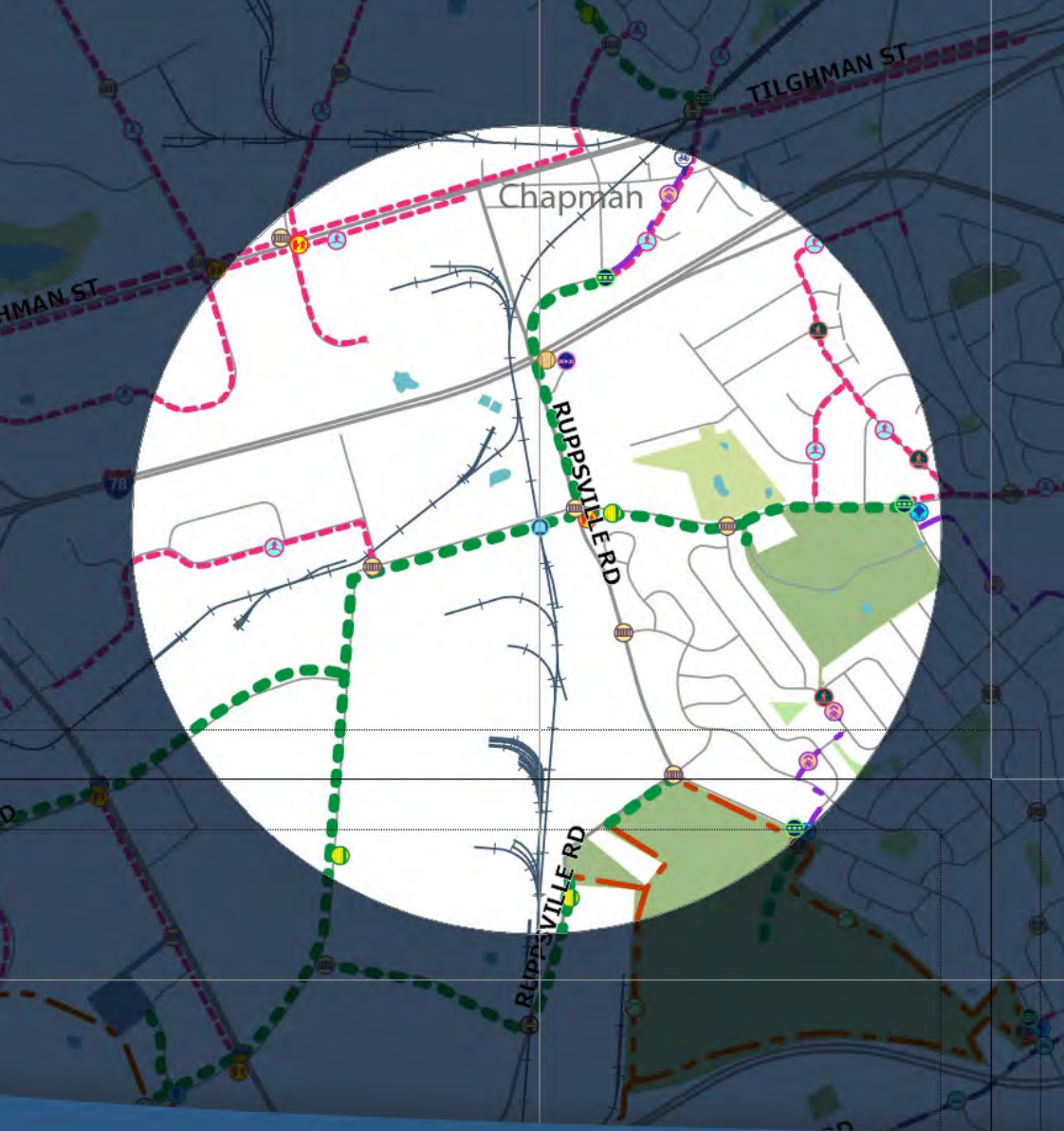
Improvement Toolbox – Masterplan



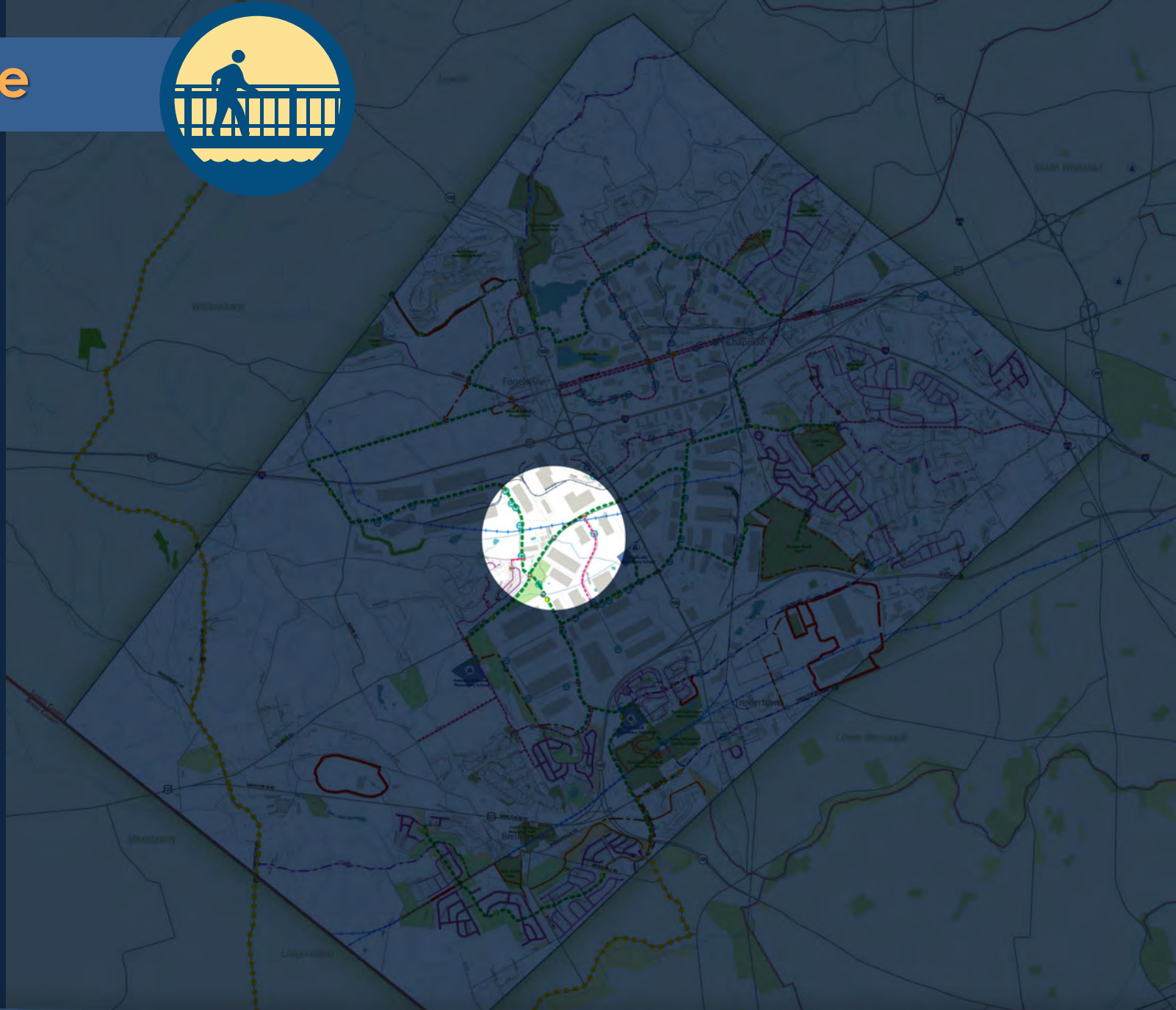
A closer look – Schantz Underpass



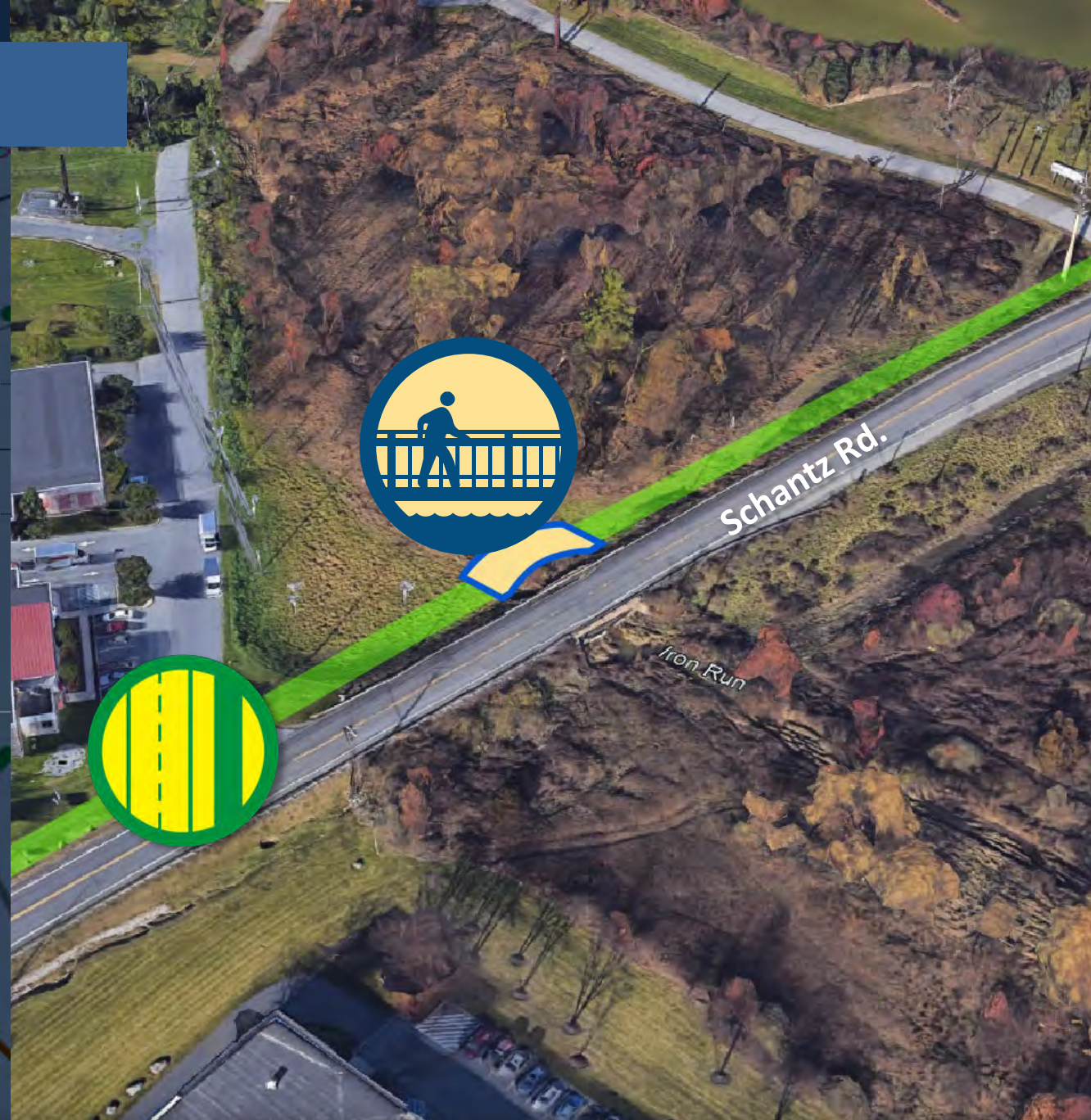
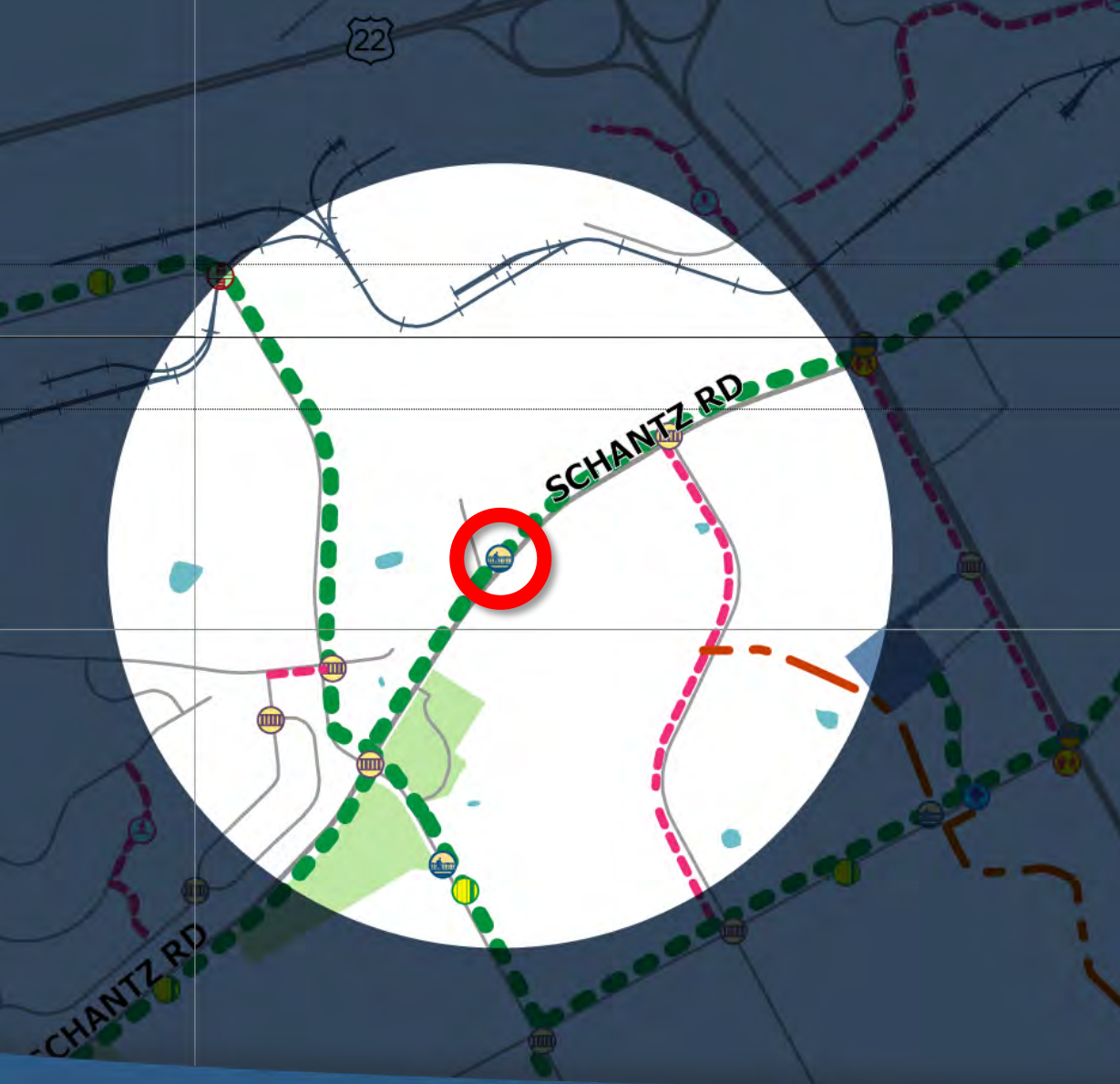
A closer look – Schantz Underpass



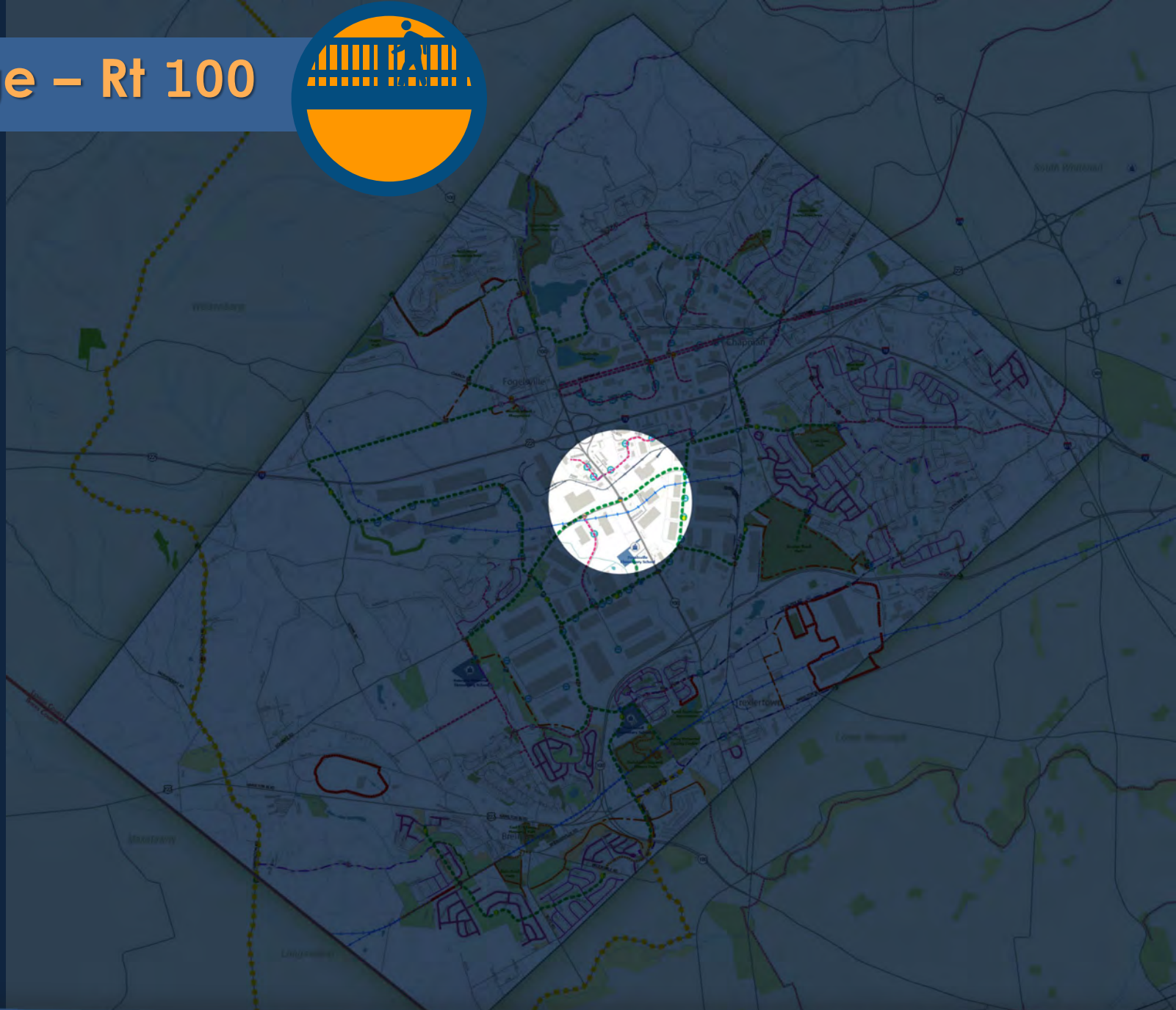
A closer look – Small Bridge



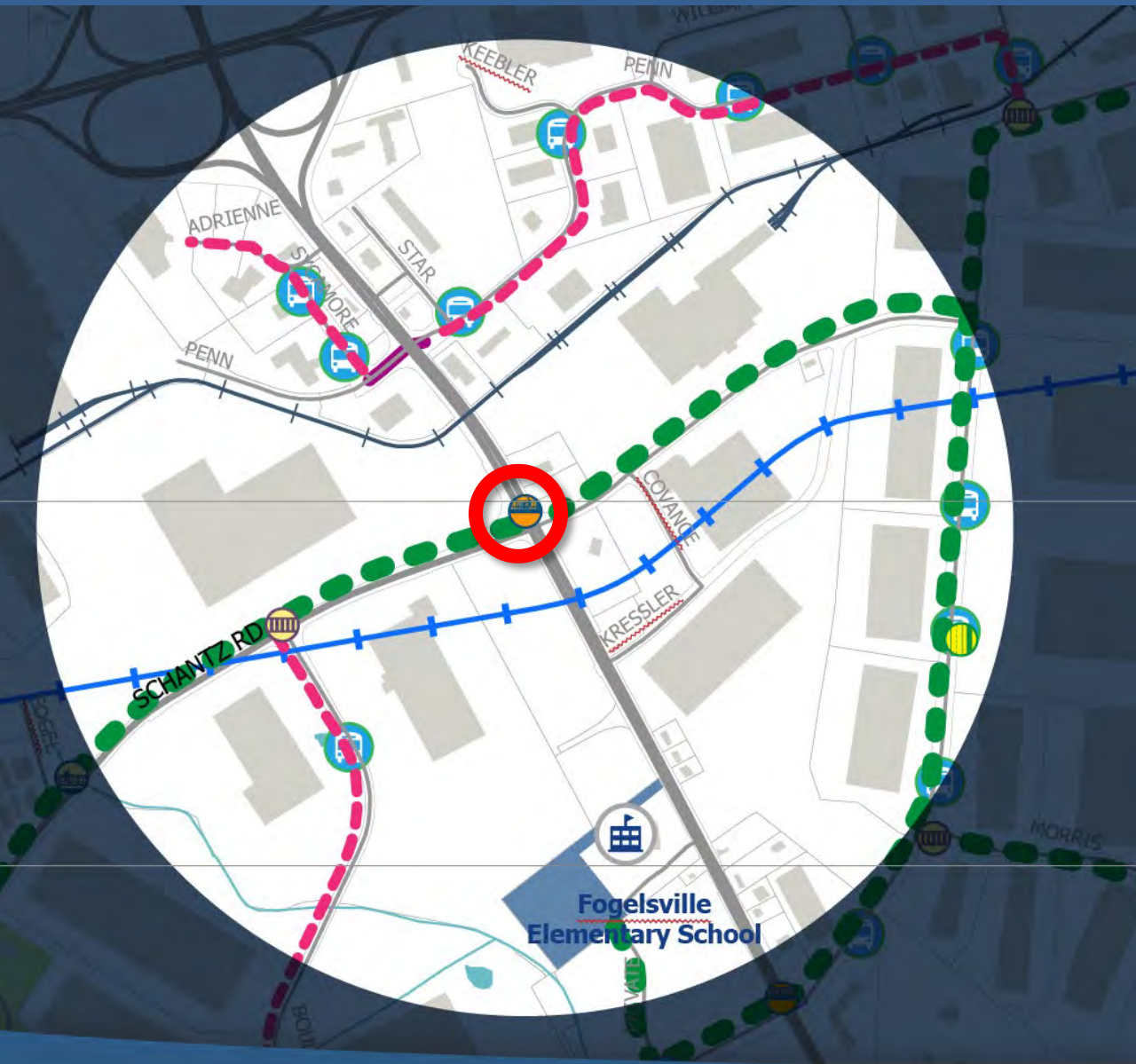
A closer look – Small Bridge



A closer look – Large Bridge – Rt 100



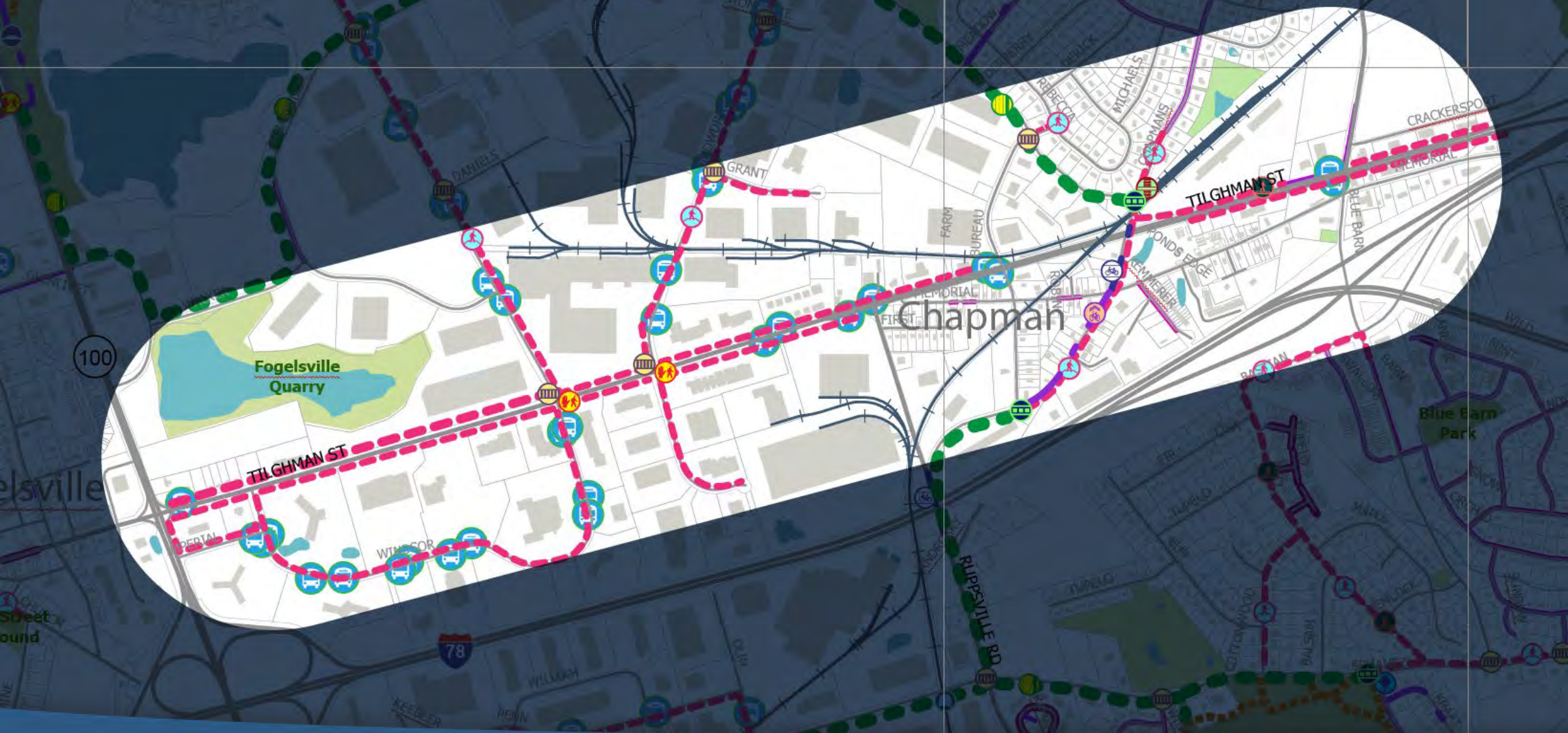
A closer look – Large Bridge – Rt 100



A closer look – Tilghman Sidewalks



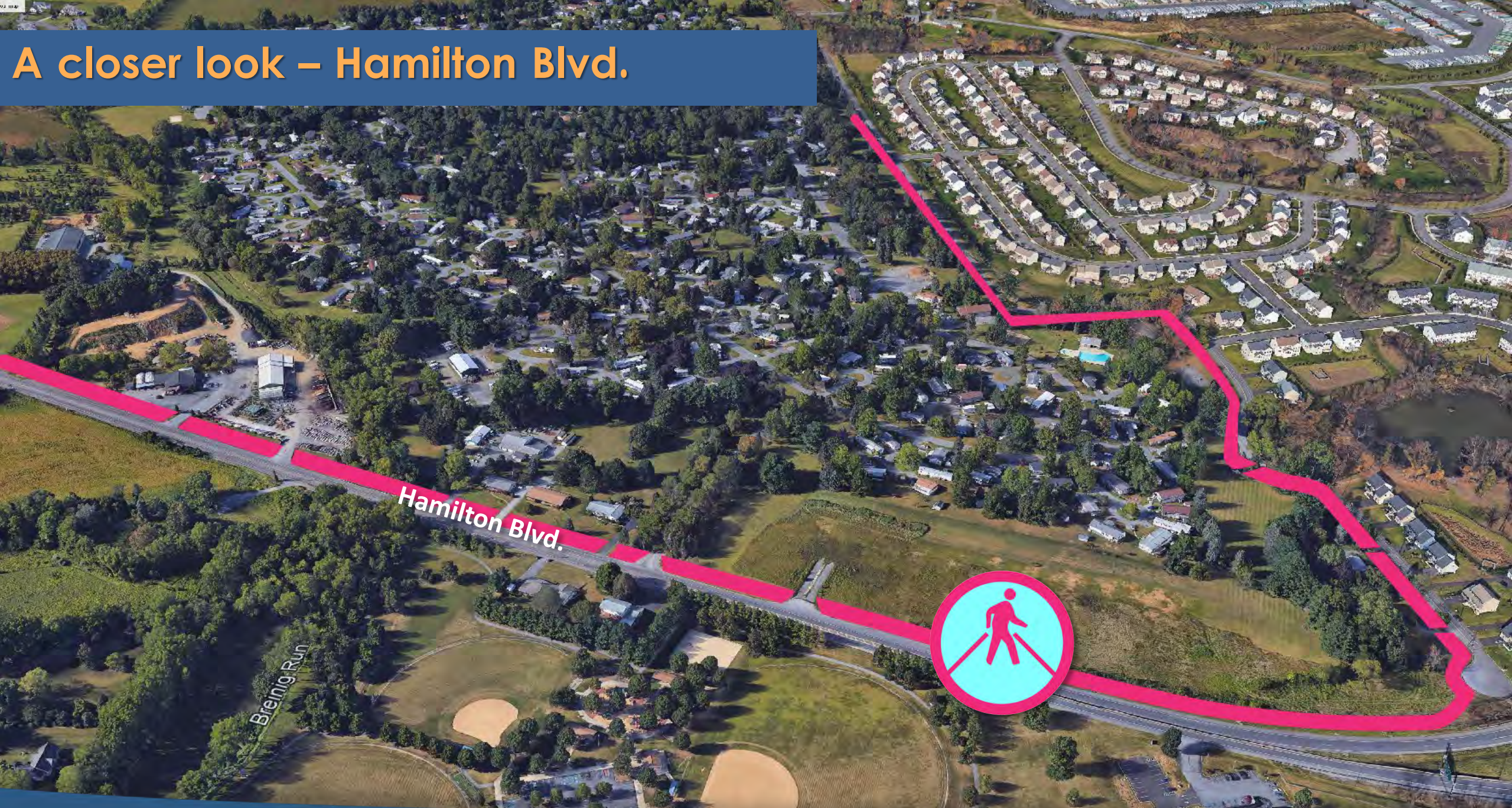
A closer look – Tilghman Sidewalks



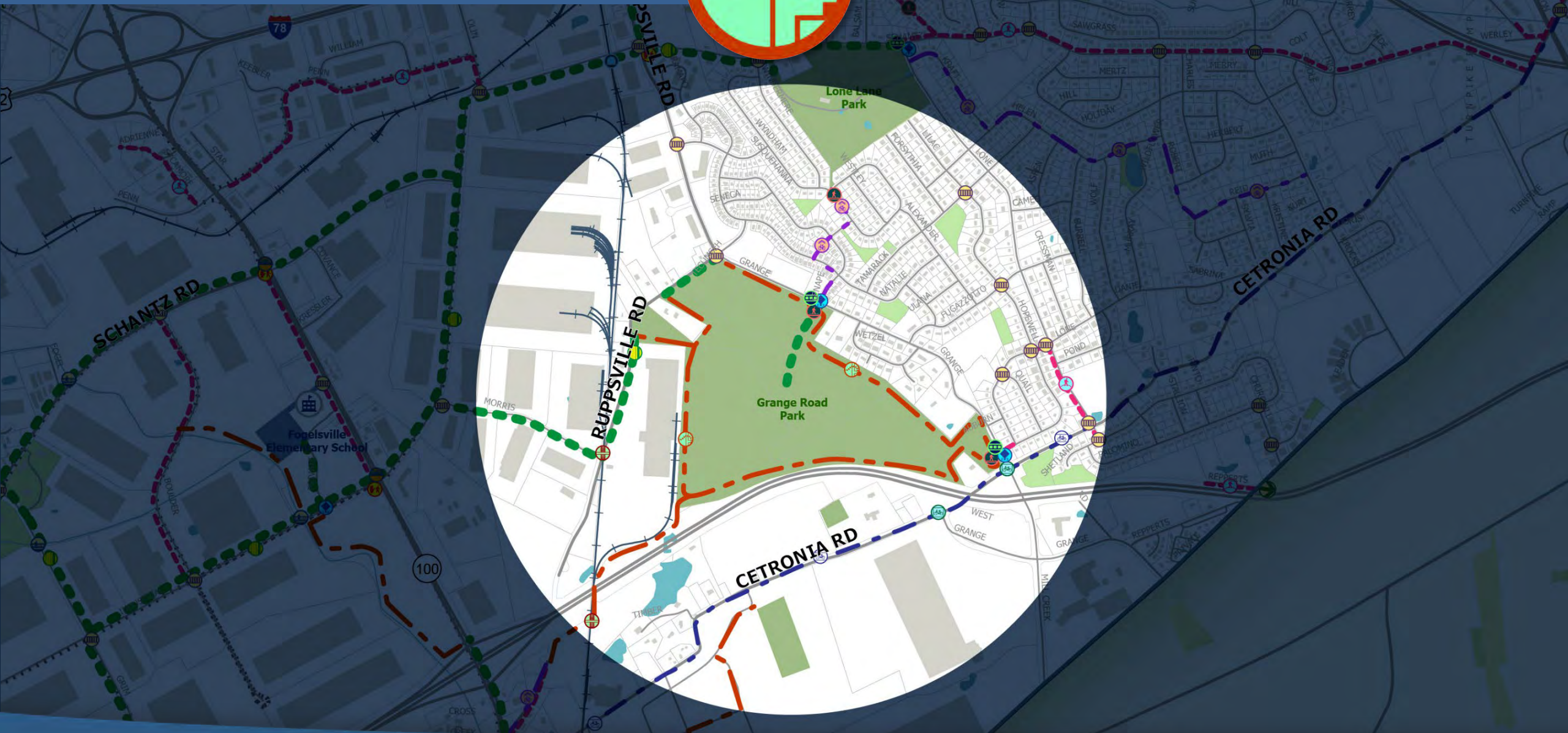
A closer look – Tilghman Sidewalks



A closer look – Hamilton Blvd.



A closer look – Grange Park



A closer look – Grange Park





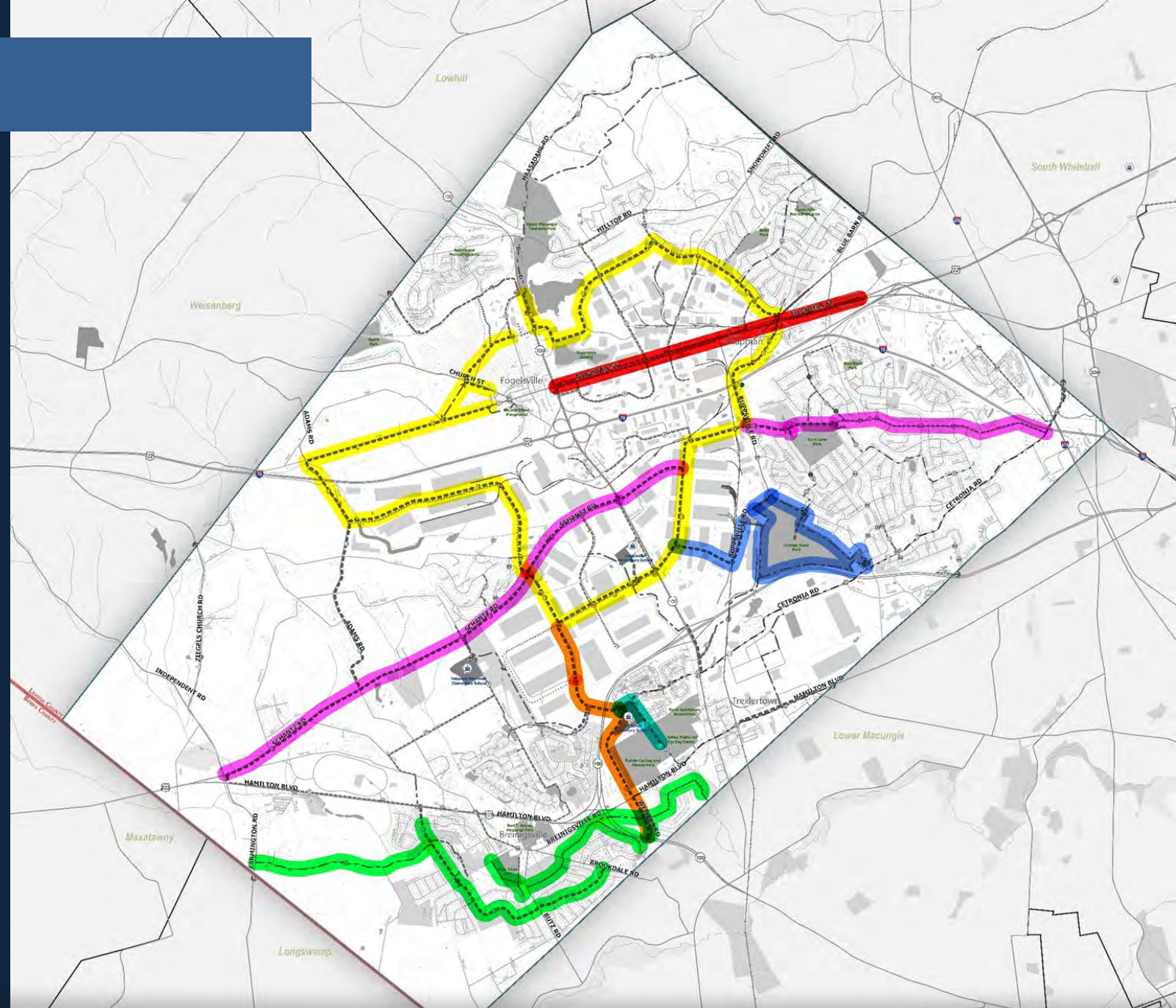
Estimated Costs



Corridors

- Non vehicular routes connecting residents all
- 7 Designated Corridors
 - Core Route
 - Tilghman St
 - Schantz Rd
 - Grange Park
 - Grim Road
 - Rodale Cycling & Fitness Park
 - Trexler Rd.

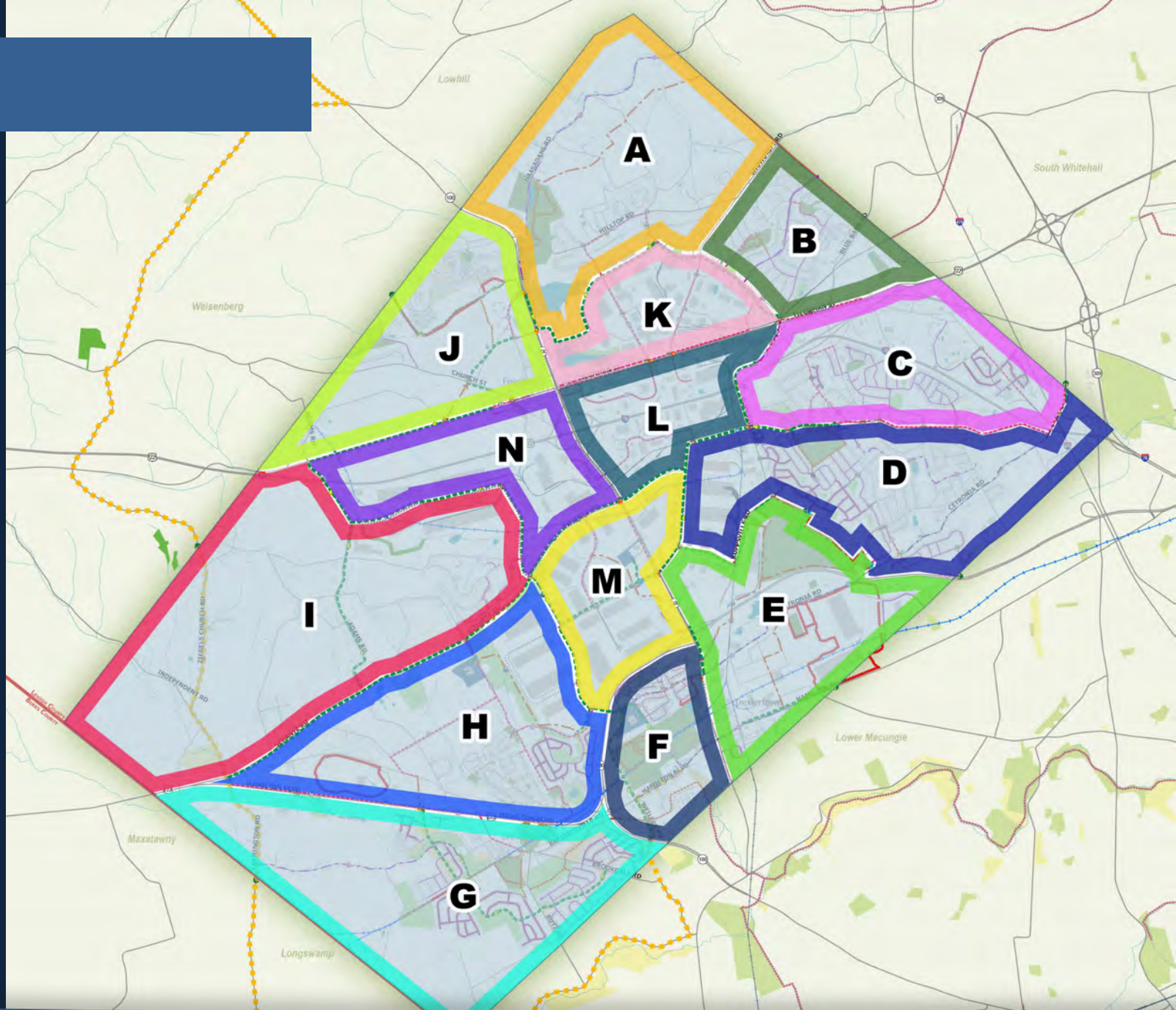
Corridors	
Subtotal:	\$27,263,000.00



Corridor Areas

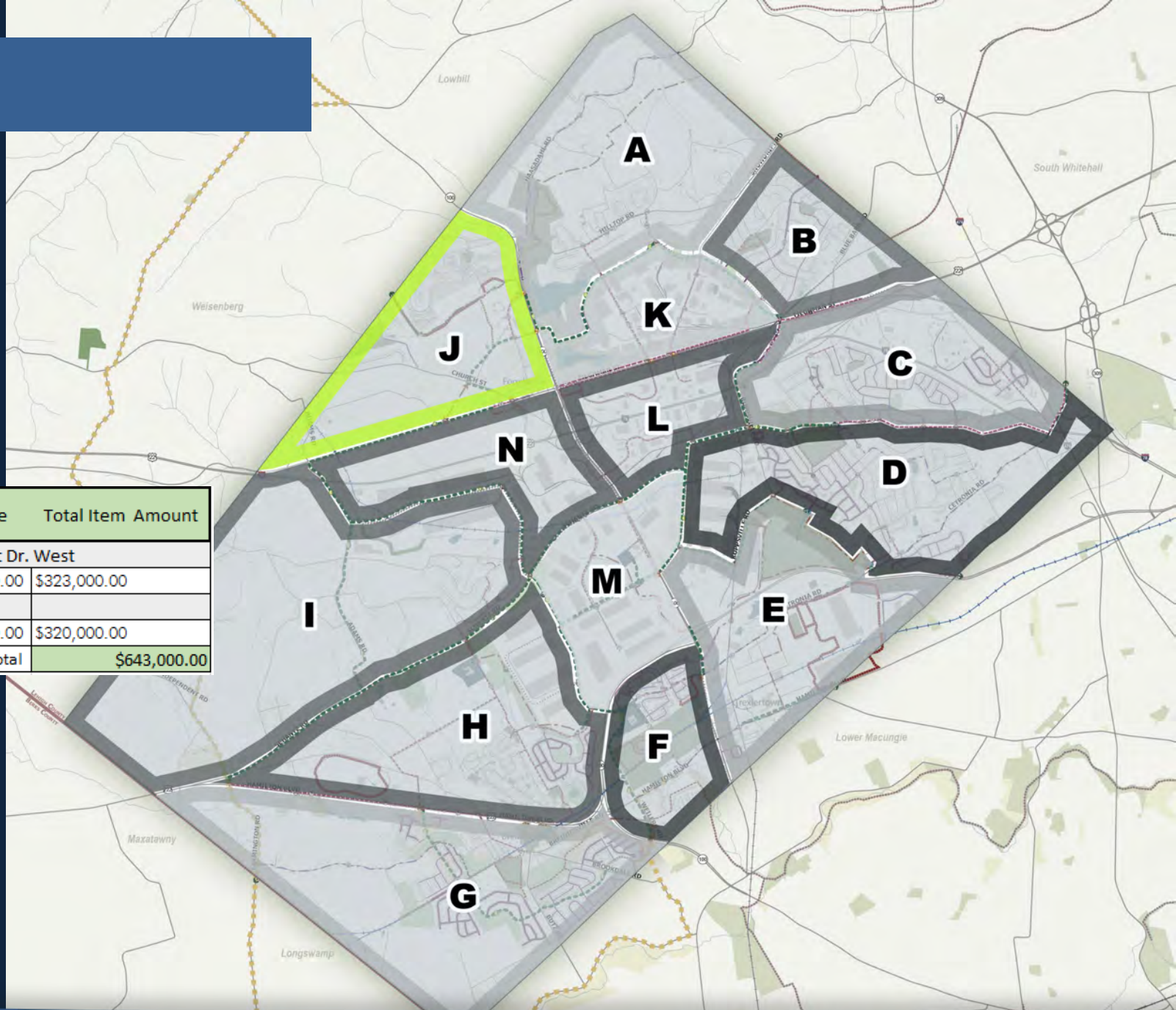
- Corridors (Corridor \$ not included)
- On-road and off-road improvements

Corridor Areas	
Subtotal:	\$13,515,705.00



Corridor Areas – Example

- Improvements are described and itemized in report



Area J:					
Item Description	Estimated Quantity		Unit Price	Total Item Amount	
Intersection of Haaf Rd. and Old Route 22 to Intersection of Church St and Glenlivet Dr. West					
Multi Use Trail	1700	LF	\$ 190.00	\$323,000.00	
Camp Spirit and Easement south of Applewood Housing Development					
Stone Dust Trail	6400	LF	\$ 50.00	\$320,000.00	
			Total	\$643,000.00	



Funding Opportunities



- DCNR
- DCED
- DEP
- PennDOT
- PennVEST
- PA Fish & Boat Commission
- Redevelopment Assistance Capital Program (RACP)
- U.S. Forest Service
- U.S. Department of Agriculture
- NFWF
- American Rescue Plan Act
- Infrastructure Investment and Jobs Act
- BIL





Draft Report



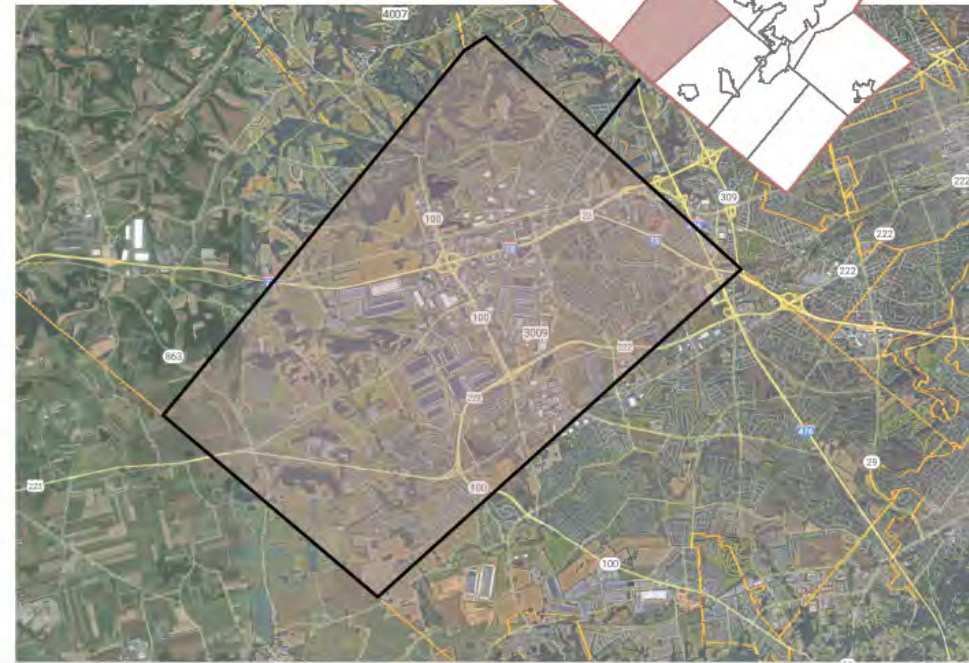
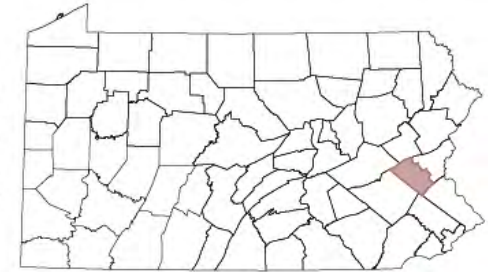
Project Schedule

A project schedule was developed which includes a timeline for public participation as well as production of a master plan and report.

UPPER MACUNGIE TOWNSHIP		Project Schedule - 02.08.22										
Trail Connectivity & Walkability Plan		February	March	April	May	June	July	August	September	October	November	
Review background data and previous studies												
Site Reconnaissance		■	■		■			■				
Obtain and set up base mapping		■	■									
Existing Roadway, Sidewalk inventory and mapping		■	■	■	■							
Existing Trail / Trail Plans inventory and mapping / Strava data		■	■	■	■							
Access ADA accessibility issues / locations		■	■	■	■							
Create sidewalk gap plan				■	■	■	■	■	■			
Create trail gap plan				■	■	■	■	■	■			
Conceptual wayfinding signs locations							■	■	■	■		
Concept cost estimates for proposed improvements							■	■	■	■		
Prioritize improvements							■	■	■	■		
Funding Strategy / Implementation Strategy							■	■	■	■		
Write and Assemble Walkability and Bikeability Report							■	■	■	■		
Draft Plan									■			
Thirty (30) day draft plan review										■	■	
Revisions to create final plan											■	■
Final Plan												■
Public Participation												
Public Meeting #1 - information gathering / brainstorming		22nd										
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Committee Meeting #5 - agree on revisions for final plan report										11th		
Write and administer public opinion survey		■	■	■	■	■	■	■	■	■	■	■
Set Up and administer Wiki Mapping Interactive mapping tool		■	■	■	■	■	■	■	■	■	■	■
Key Person / Agency Interviews (15)		■	■	■	■	■	■	■	■	■	■	■
Meeting with LVPC											■	■
Meetings (2) with PennDOT District 5-0			■								■	■
Coordination with Township staff		■	■	■	■	■	■	■	■	■	■	■

Site Context

Upper Macungie Township is within Lehigh County, Pennsylvania. It is bordered by Lower Macungie, South Whitehall, Lowhill, and Weisenberg Townships. Additionally, the southern edge of Upper Macungie township is the county line between Lehigh County and Berks County. Although it does not directly border its limits, Upper Macungie can also be considered a suburb of Allentown.

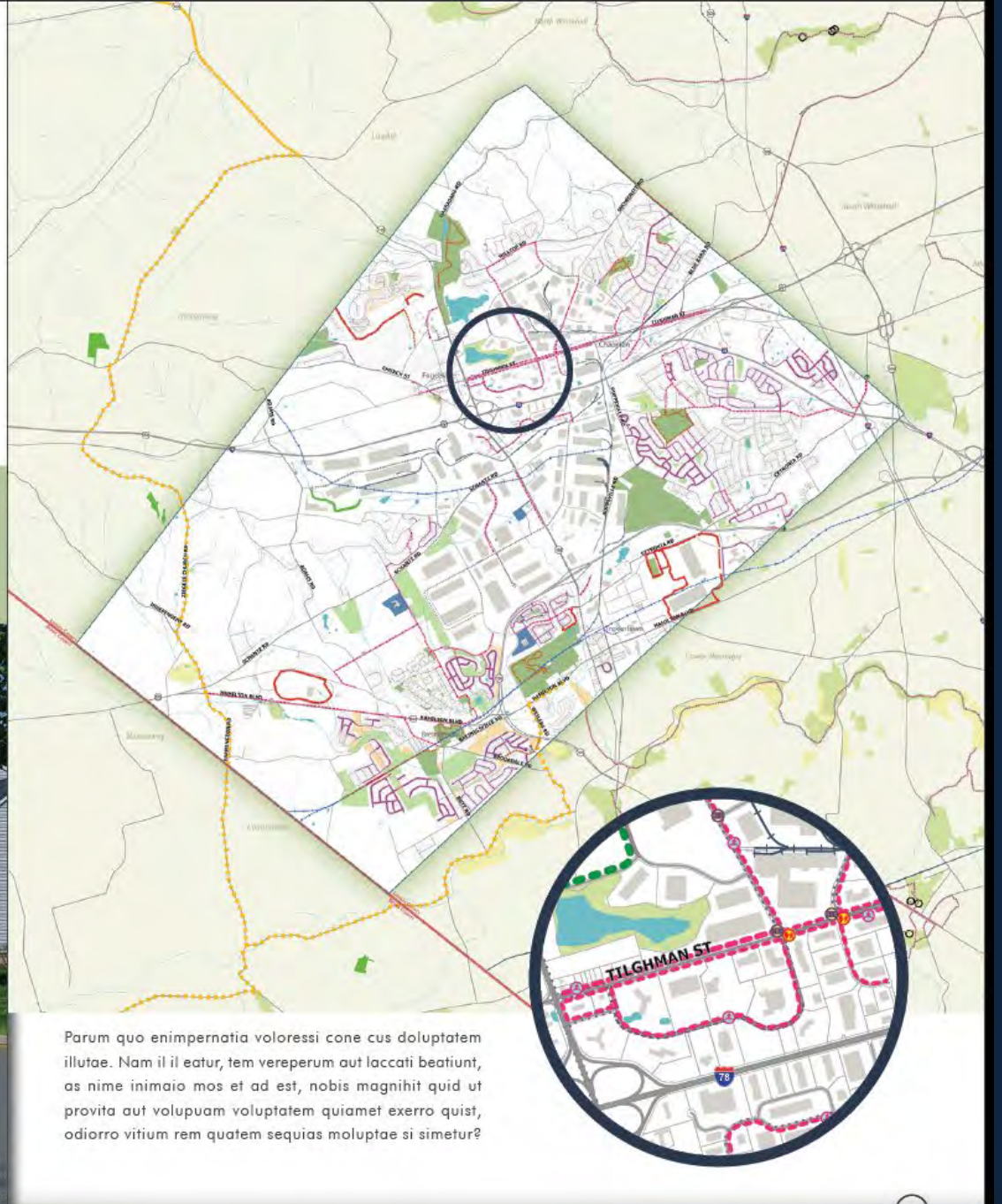


Sidewalk

Sidewalks accomplish pedestrian connectivity in the most basic form, allowing users to traverse their community on a designated concrete path between 4'-6' in width. They enhance connectivity, promote walking, and reduce the chance of pedestrian-involved incidents by creating a safe place for pedestrians to walk without being near vehicular traffic.



Concrete Pavers		1 SF			
1	Excavation	0.03 CY	\$	25.00	\$ 0.77
2	Grade Subgrade	0.11 SY	\$	1.18	\$ 0.13
3	2A Aggregate Subbase - 4"	0.11 SY	\$	14.00	\$ 1.56
4	Reinforced Concrete - 4"	1.00 SF	\$	8.00	\$ 8.00
5	Sand Bedding - 1"	1.00 SF	\$	2.00	\$ 2.00
6	2" Concrete Pavers	1.00 SF	\$	7.00	\$ 7.00
				total	\$ 19.46
				Cost / SF	\$ 19.50
				Cost / SY	\$ 175.50



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Public Participation

It is important for Simone Collins to gain as much information as possible to inform the master planning process. The following sections describe the methods used to gather data from the public.

Meetings

Five (5) committee meetings, and four (4) public meetings were held over the course of the project. Each meeting was held as a hybrid of in person and online attendance. Each meeting date and a brief summary are as follows:

Kick Off Meeting – December 9, 2021

- Project scope and schedule were discussed in the first project meeting. The development of a committee, website, and potential key person interviews were main priorities.

Committee Meeting #1 - February 8, 2022

- Committee Meeting 1 introduced the Simone Collins team, project scope and schedule to the project committee. The committee was informed on the methodology used in Simone Collins' master planning process. Additionally, a Q&A was held, and early input to the project was recorded.



Public Meeting #1 - February 22, 2022

- Public Meeting 1 described the project scope and schedule to the public. XX individuals attended in person, while XX attended virtually. A brainstorming discussion was held which categorized input into goals, concepts, partners, and facts. Additionally, the online data collection resources, project website, WikiMapping and Survey Monkey were launched.

Committee Meeting #2 - May 10, 2022

- Committee Meeting 2 updated the project committee on the responses to the online resources, reviewed the Simone Collins site visit, and presented base maps. Furthermore, preliminary improvement toolbox items were presented, explaining to the committee how the master plan would be communicated.

Public Meeting #2 - May 31, 2022

- Public Meeting 2 described the improvement toolbox to the general public, and the base maps were reiterated. XX individuals attended in person, while XX attended virtually. Public input through a Q&A and discussion section was gathered.

Committee Meeting #3 - July 12, 2022

- Committee Meeting 3 updated the committee on survey responses. A refined base map and improvement toolbox was presented. Furthermore, Simone Collins' provided an update on key person interviews and conducted a discussion section.



Committee Meeting #4 - August 16, 2022

- Committee Meeting 4 updated the committee on survey responses. A refined base map and improvement toolbox was presented. Simone Collins' summarized the data gathered through the August 2nd site visit and updated the committee on key person interview progress.

FUTURE MEETINGS:

Public Meeting #3 - September 13, 2022

- DESCRIPTION

Committee Meeting #5 - October 11, 2022

- DESCRIPTION

Public Meeting #4 - November 15, 2022

- DESCRIPTION

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Implementation Priorities

The improvements proposed in the Upper Macungie Township Connectivity & Walkability Study are direct responses to the challenges and barriers developed by existing conditions. These resolutions were based on public input, property ownership.

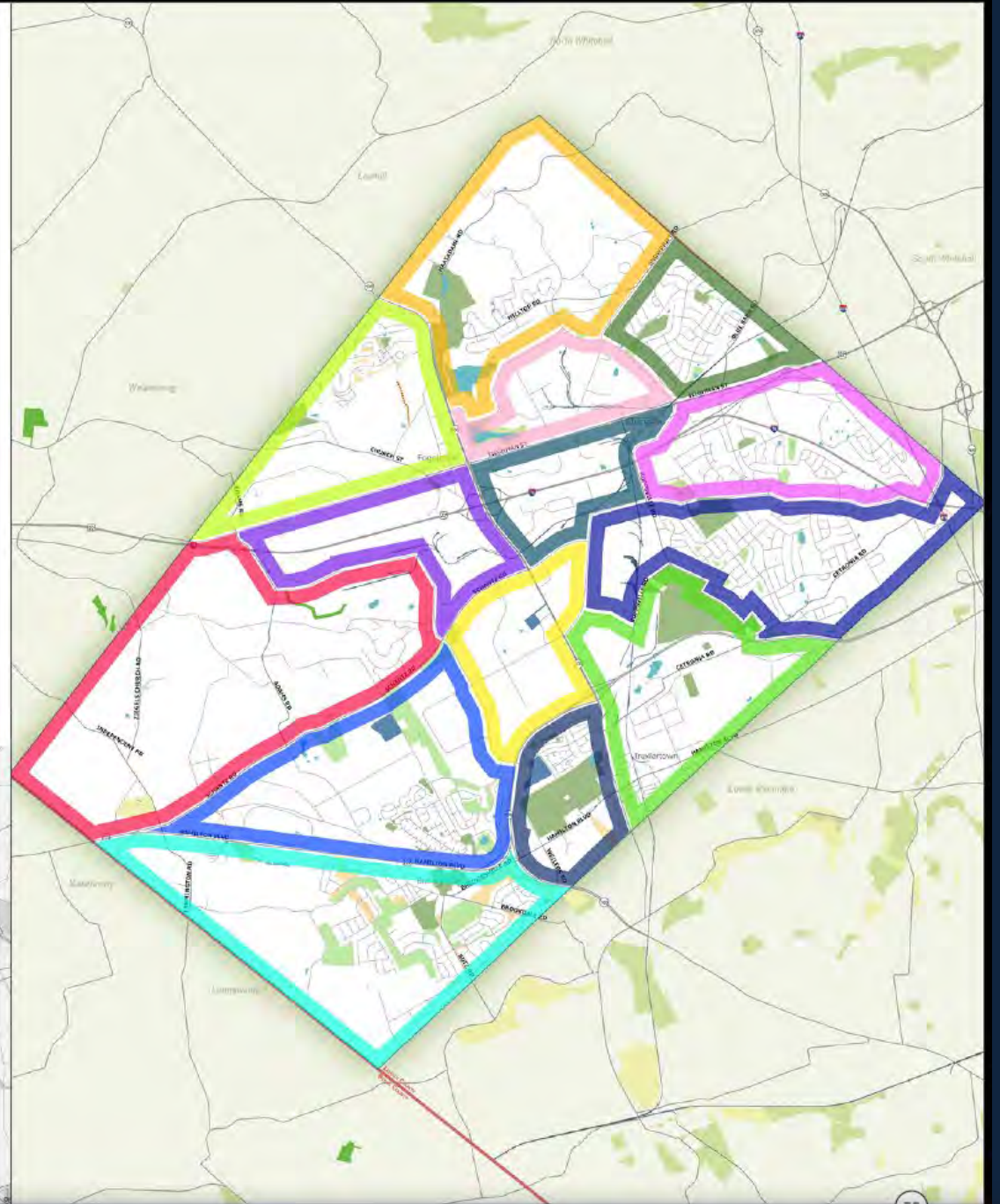
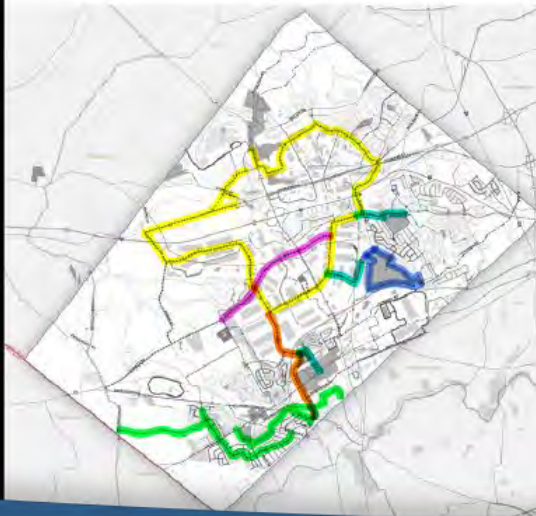
On-Road improvements are the least expensive and should be implemented as soon as possible. In the case of Upper Macungie Township, on-road improvements will create improvement in safety and connectivity, as well as develop a sense of importance for the project. Because they take place in the right of way, and require no acquisition of private property, on-road improvements are generally easy to implement. These improvements should take place during the repaving of operational roads, and include items such as painted sharrows routes, bike lanes, speed tables, and speed cushions.

As the popularity of Upper Macungie Township as an industrial hub grows, its major highways and routes will continue to be utilized by vehicular traffic. The economic benefits of this growth are undeniable, however it will further the pedestrian and bicycle challenges created by major barriers such as Route 100, Route 222, and Interstate 78. Subsequently, the proposed core loop, which navigates these challenges, also holds a high priority.

Like the core loop, the system of corridors is primarily established by side path. These routes, which allow for residential areas to connect

More expensive improvements such as large pedestrian bridges and tunnels may require further feasibility studies before being implemented. With the implementation of other portions of the project, demand for the completion of these items will become more pronounced. Furthermore,

The priorities of implementation should also be opportunistic. If circumstances arise which allow for the implementation of a specific improvement, those improvements should be accomplished. For instance, if a property owner is interested in beginning specific improvements, they should take priority. In addition, if a funding opportunity aligning with a portion of the project is available, it should take priority.



Next Steps

	February	March	April	May	June	July	August	September	October	November
Review background data and previous studies	■									
Site Reconnaissance	■	■		■			■			
Obtain and set up base mapping	■	■								
Existing Roadway, Sidewalk inventory and mapping		■	■	■						
Existing Trail / Trail Plans inventory and mapping / Strava data		■	■	■						
Access ADA accessibility issues / locations		■	■	■						
Create sidewalk gap plan				■	■	■				
Create trail gap plan				■	■	■	■			
Conceptual wayfinding signs locations						■	■	■		
Concept cost estimates for proposed improvements							■	■		
Prioritize improvements							■	■		
Funding Strategy / Implementation Strategy							■	■		
Write and Assemble Walkability and Bikeability Report						■	■	■		
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Meeting with LVPC										
Meetings (2) with PennDOT District 5-0										
Coordination with Township staff	■	■	■	■	■	■	■	■	■	■

November 15th: **PM #4**

October 11th: **CM #5**

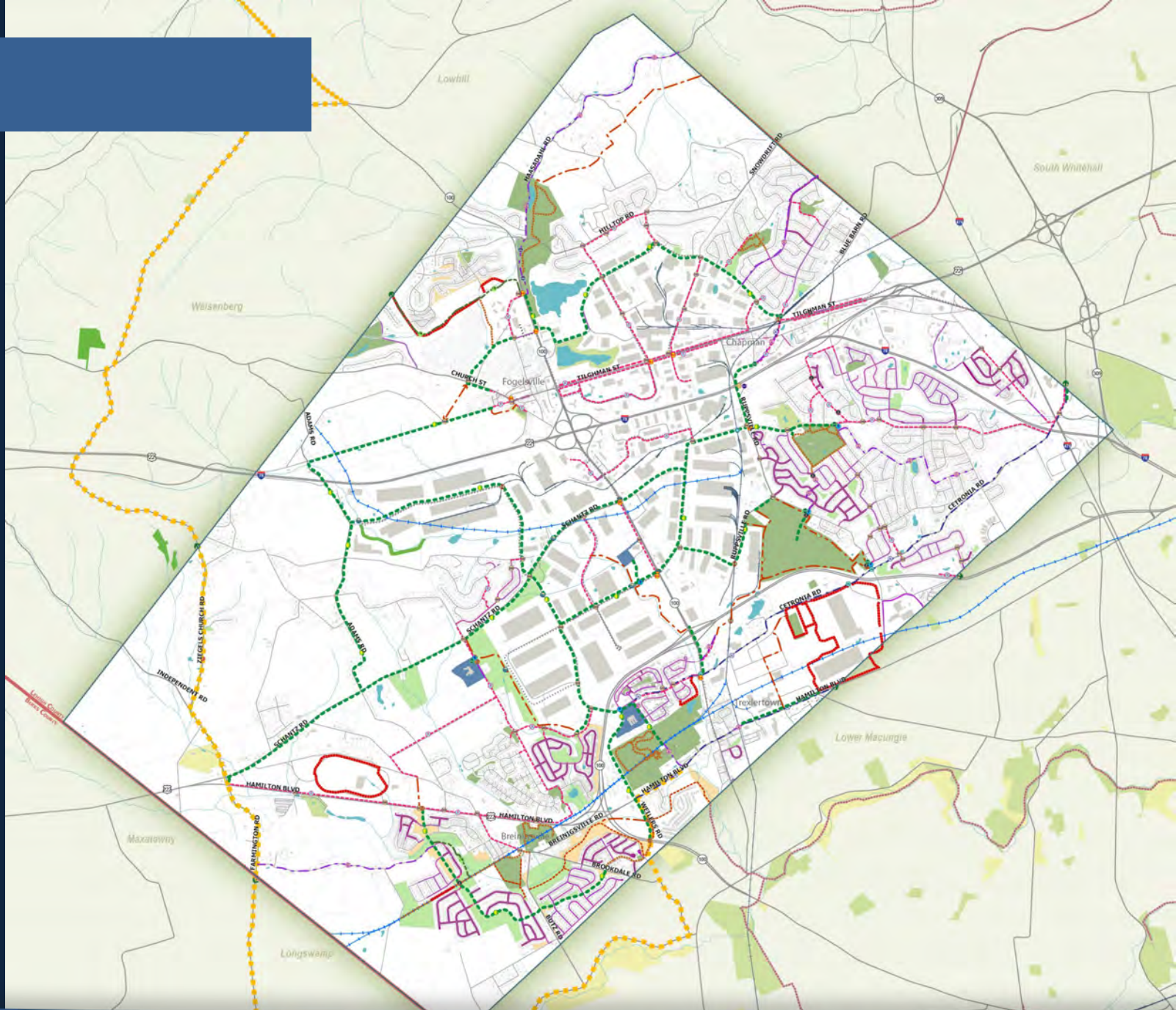
Next Steps



Final Plan & Report Completion:

- Completion of KPIs
- Review of all public/ KPI input against draft plan
- Final site visits
- Report writing design, and compilation

Discussion



Project Consultants

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