Middletown Township

Multimodal Improvement Plan

MIDDLETOWN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

Public Meeting #2 - 5.30.23

Agenda

1. Introduction
2. Data and Inventory
   - *Past Planning Documents*
   - *Design Guidelines*
3. Public Input
   - *Public Meeting Review*
   - *Opinion Survey*
   - *Online Mapping*
   - *Discussions with Community Members*
4. Site Reconnaissance
5. Site Analysis Maps
6. Improvement Toolbox Review
7. Preliminary Concept Examples
8. Next Steps
9. Discussion

SC Team

Simone Collins

William Collins, RLA, ASLA
Anita Nardone, PE
Geoff Creary, LA
Bryce Bruckner, Staff LA
Tim Adams, Planning Intern
Peter Simone, RLA, FASLA

Dawood Engineering

Lori Ware, PE, PTOE
Chad Decker, PE, PTOE

TMA Bucks

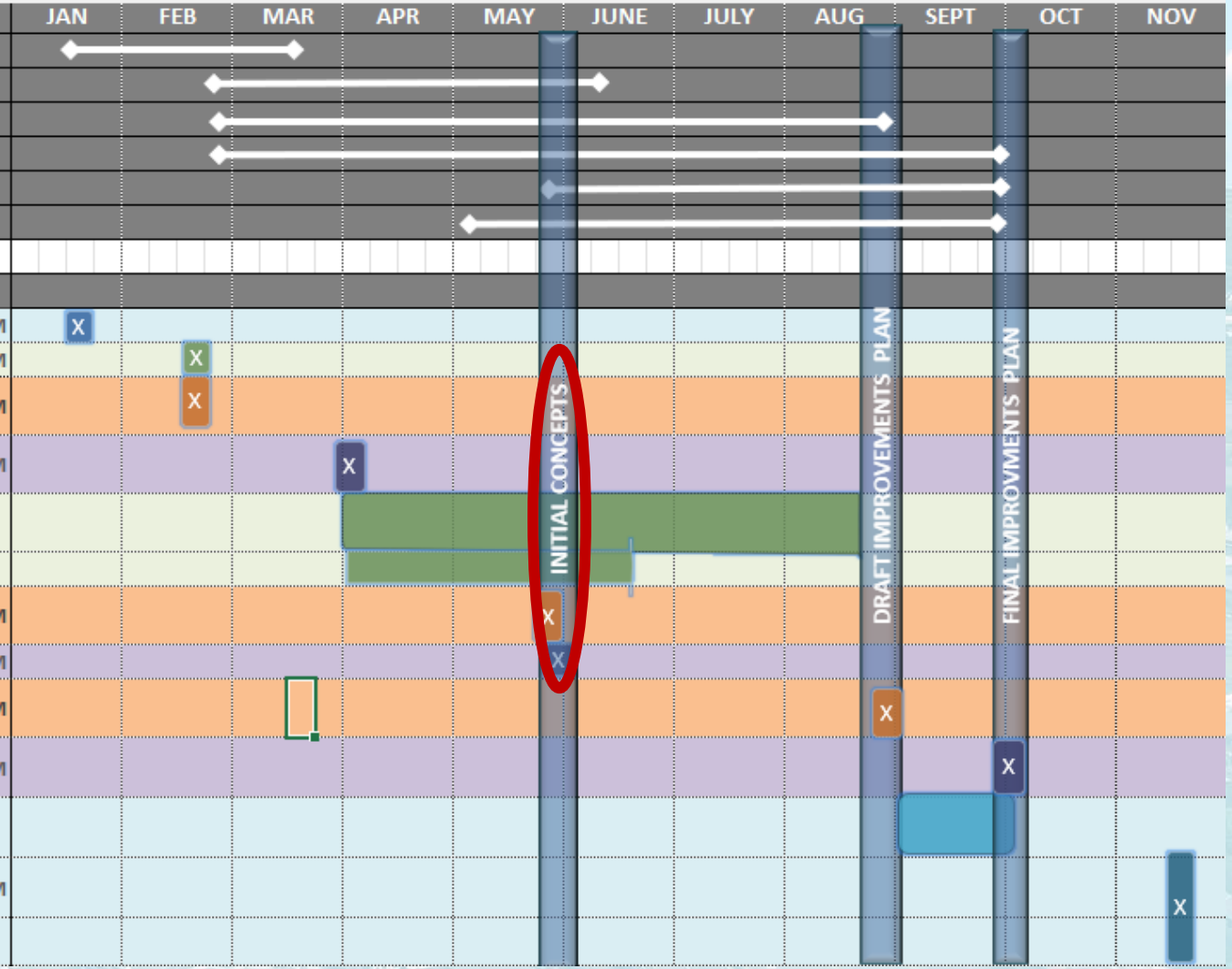
Stephen Noll, Ex. Dir.
Ashley Sulon, Project Coord.

Project Scope

1. Site Reconnaissance
2. Inventory / map existing sidewalks & trails
3. Identify high intensity / high use areas
4. Coordinate with transit / transportation projects
5. Prioritize infrastructure improvements
6. Develop costs and funding strategy
7. Prepare attractive and compelling final report
8. Public participation / education

Project Schedule

TASK 1 - DATA COLLECTION & ANALYSIS			
TASK 2 - SITE VISITS/ RECONNAISSANCE			
TASK 3 - MULTIMODAL IMPROVEMENTS ANALYSIS			
TASK 4 - MEETINGS/ PUBLIC PARTICIPATION			
TASK 5 - PREFERRED IMPROVEMENTS PLAN (DRAFT & FINAL)			
TASK 6 - COST ESTIMATES/ PARTNER FUNDING STRATEGY			
MEETINGS / PUBLIC PARTICIPATION			
Client Meeting	Project kick-off	Fri, Jan 20, 2023	9:00 AM
Site Reconnaissance	Township Tour	Wed, Feb 22, 2023	9:00 AM
Steering Committee Meeting #1	Kick-off, Protocols, Goals, Brainstorming	Wed, Feb 22, 2023	4:00 PM
Public Meeting #1	Programming & Brainstorming	Tue, Apr 04, 2023	6:00 PM
Online Public Survey / Wiki Mapping			
Key Person Interviews			
Steering Committee Meeting #2	Comment/Discussion on Initial Concepts	Thu, May 25, 2023	4:00 PM
Public Meeting #2	Draft Plan Concepts	Tue, May 30, 2023	6:00 PM
Steering Committee Meeting #3	Draft Improvements Plan Discussion	Tue, Aug 29, 2023	4:00 PM
Public Meeting #3	Final Preferred Improvements Plan	Thu, Sep 28, 2023	6:00 PM
Public/ Stakeholder Review Period	30 Days		
MT Planning Commission Mtg	Final Plan Presentation	Wed, Nov 01, 2023	7:00 PM
FINAL Report/ Publish		Mon, Nov 20, 2023	



Data, Inventory & Design

Data and Inventory - Sources

Data Sources

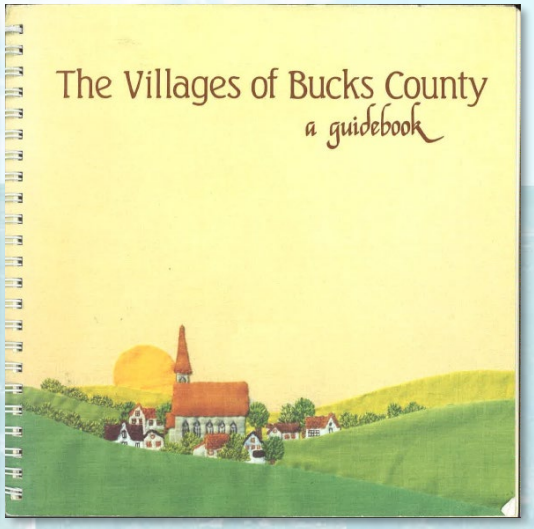
- DVRPC
- PASDA
- PennDOT
- Bucks County
- Neighboring Townships

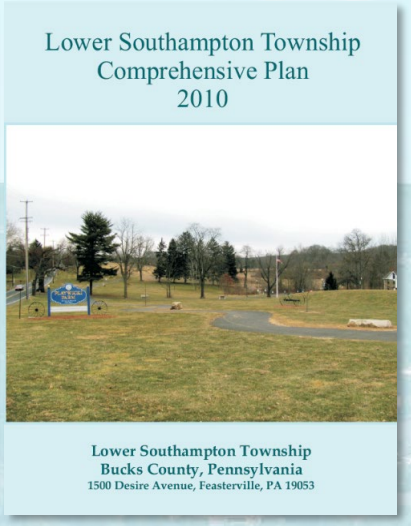
Data and Inventory – Previous Planning Documents

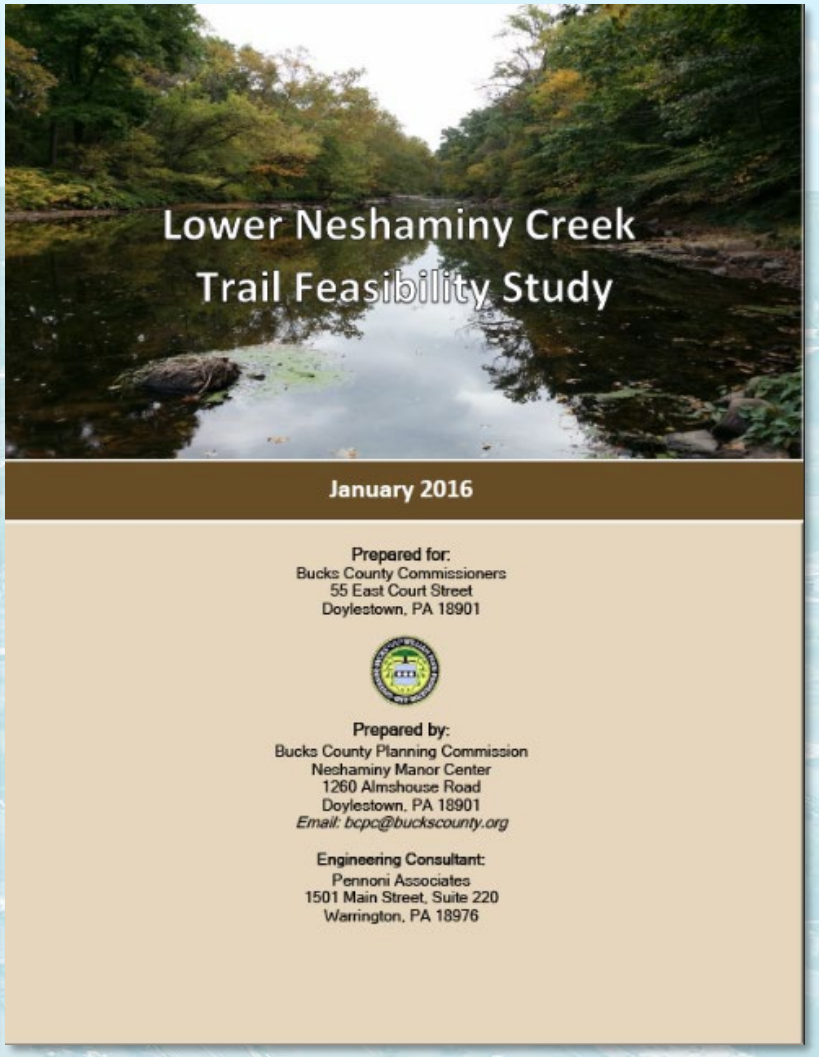
Examples of data inventory

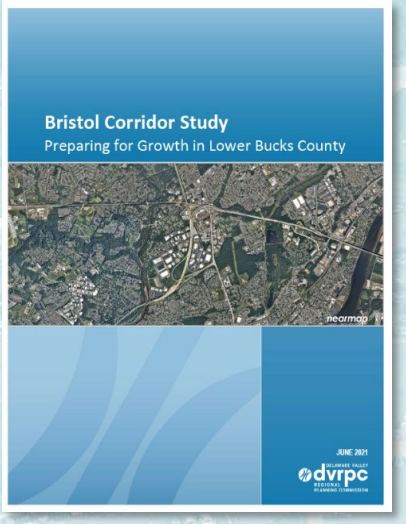
- DVRPC
  - *Safe Routes to Transit – Woodbourne Station*
  - *Circuit Trails Map*
- PennDOT
  - *Langhorne-Yardley Road intersection Improvements Map*
- Middletown
  - *Township 2020 Capital Improvement Plan*
  - *Watershed Districts and Floodplain Map*
  - *Open Space Map*
  - *Township Park Maps*
- Adjacent Townships
  - *Comprehensive plans*

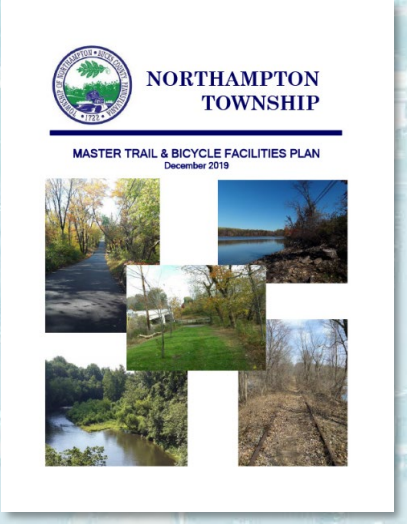
Data and Inventory – Sources

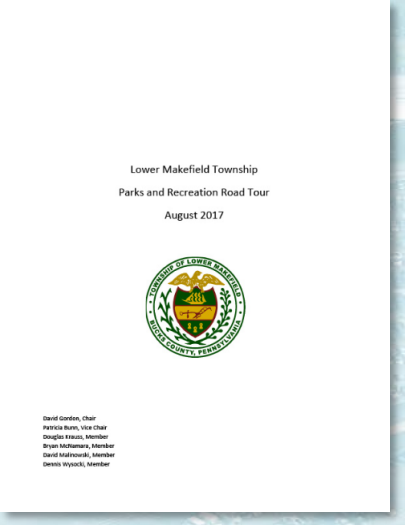


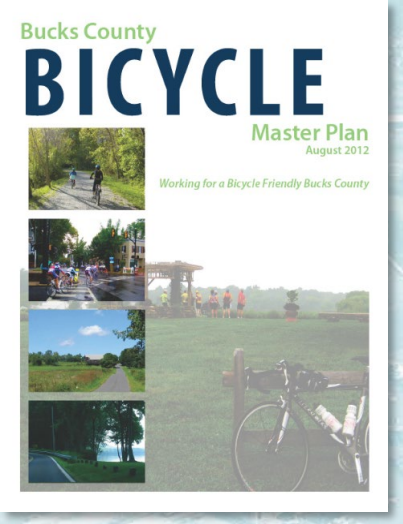




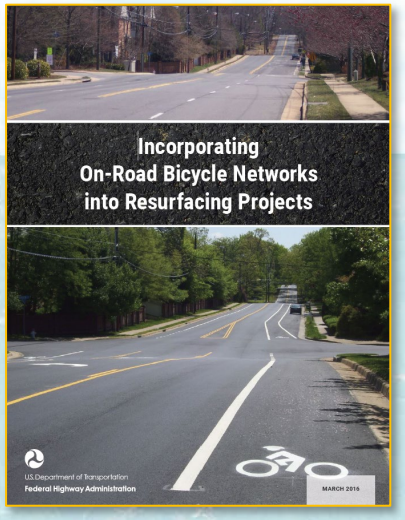


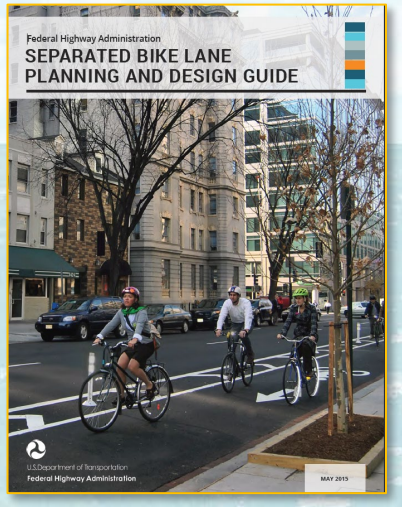


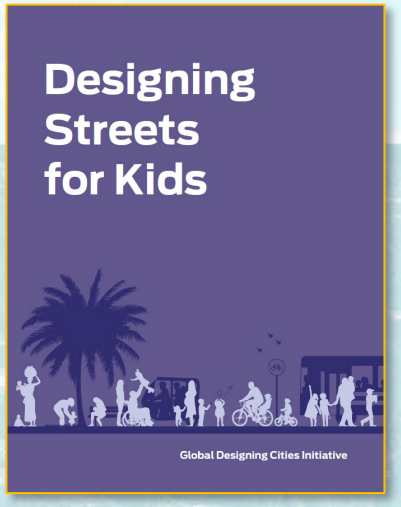


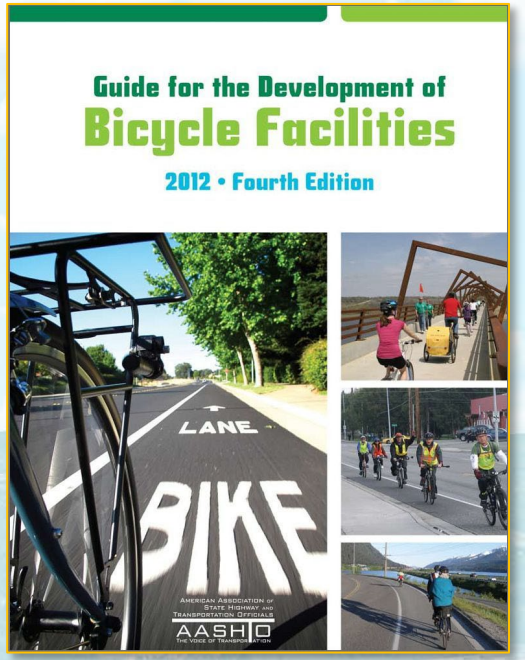


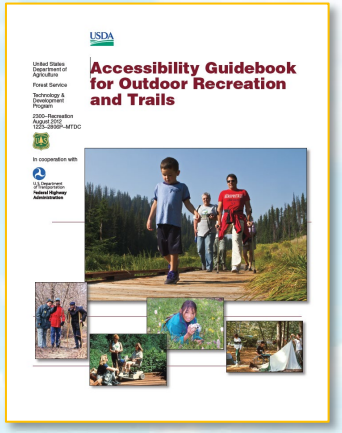
Design Standards – *Manuals*

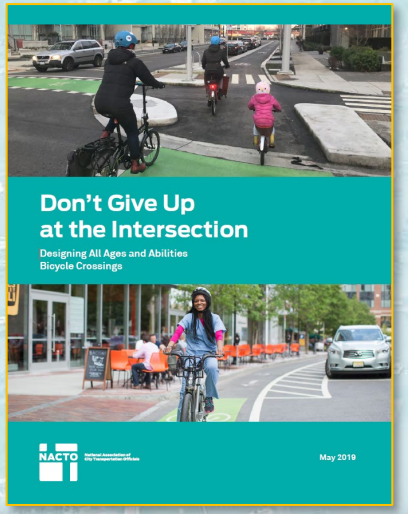


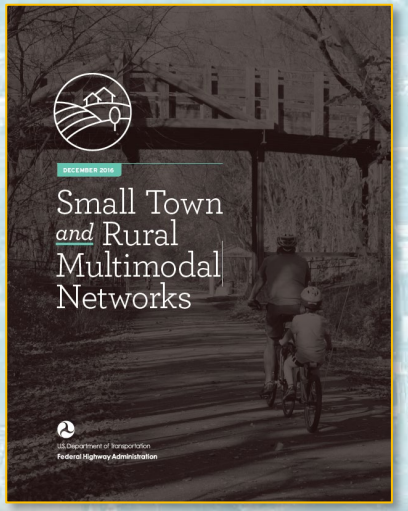


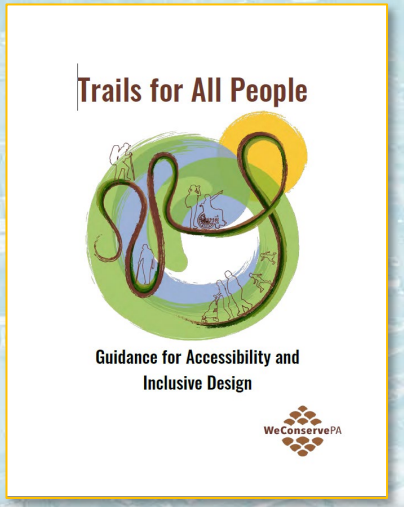


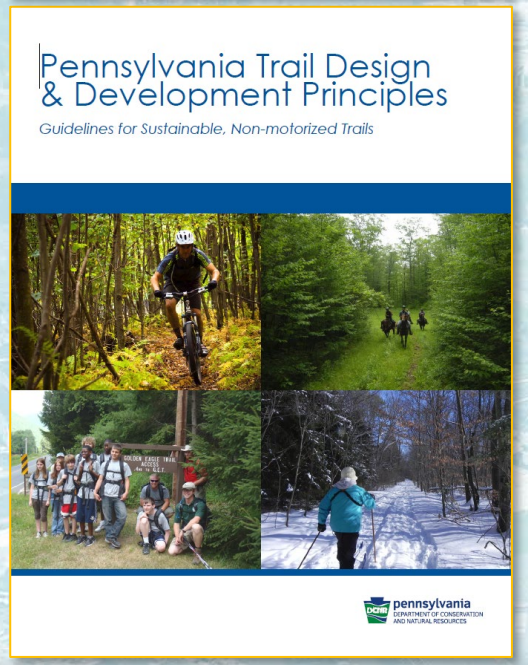


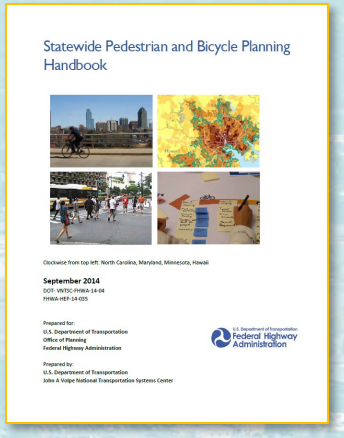


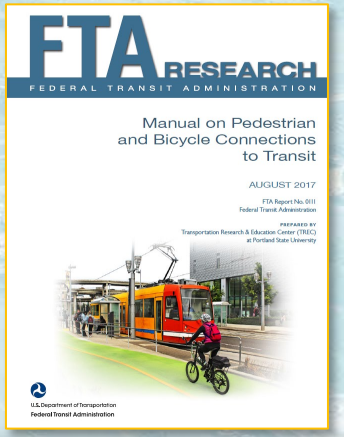












User Groups - many uses, all abilities

Pedestrians

Active Lifestyles

Cyclists

Experienced

Casual

Child

Other Users

Public Input

Online Survey – sample responses

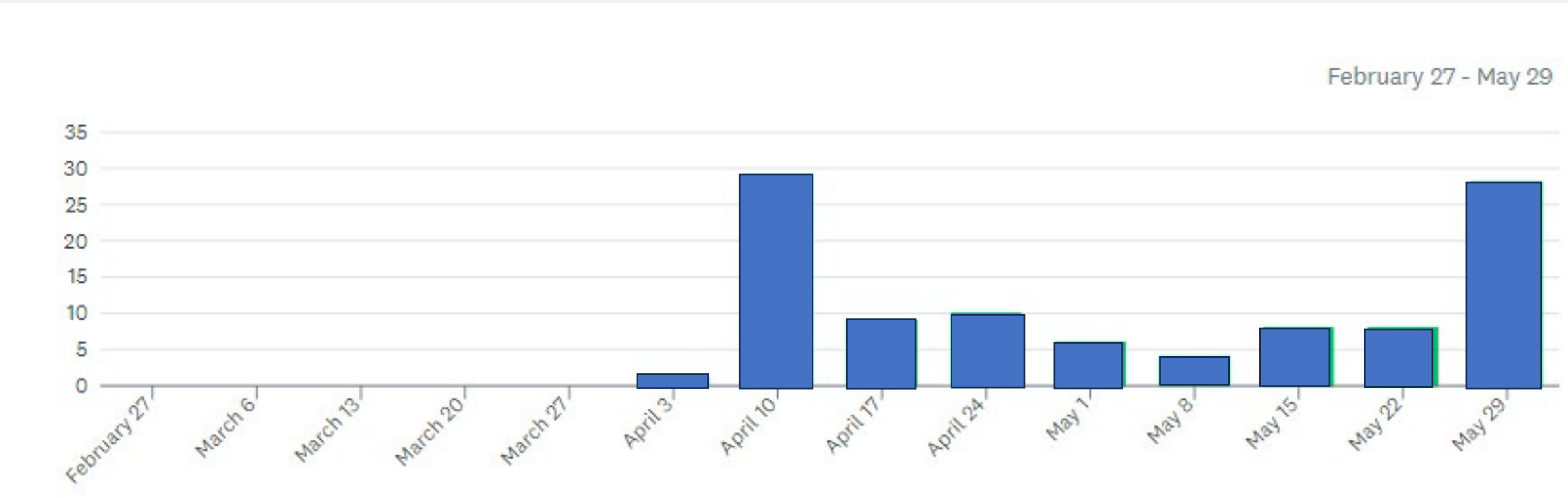
101 Responses to Date

- What kind of comments are we seeing?

  - *"I am mostly in the area of Core Creek park. Drivers use the surrounding roads as a speed way."*
  - *"There are no safe ways to cross I-295. Both Trenton Rd and Bus-1 are incredibly **unsafe for Pedestrians and Bicyclists**."*
  - *"To increase bicycle use you need bicycle racks where bikes can be locked up **while shopping, at public parks, etc**"*
  - *Woodbourne station has such potential but is **inaccessible** from my neighborhood (Maple Point) by bike/foot.*
  - *Frosty Hollow Rd from Durham Rd to Rt 413 really could benefit from a sidewalk.*
  - *More trails that are **accessible** for the disabled. These trails have to be smooth from start to end with no grass, gravel, high cracks, or stones.*

Online Survey - participation

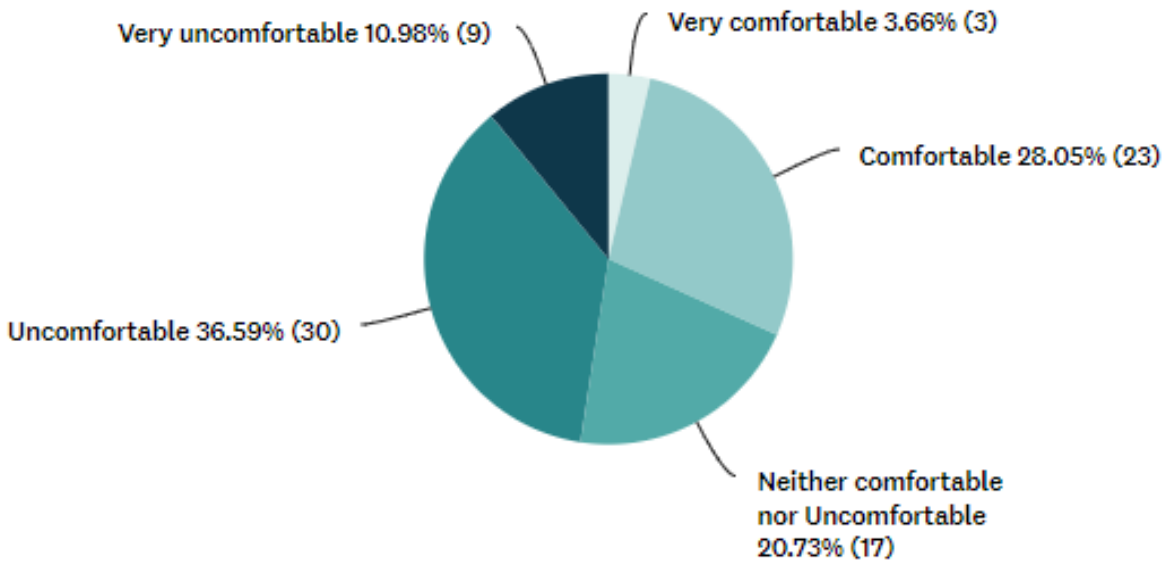
101 Responses (over 8 weeks)



Online Survey – question about walking

From a perspective of traffic safety, how comfortable do you feel walking in Middletown Township?

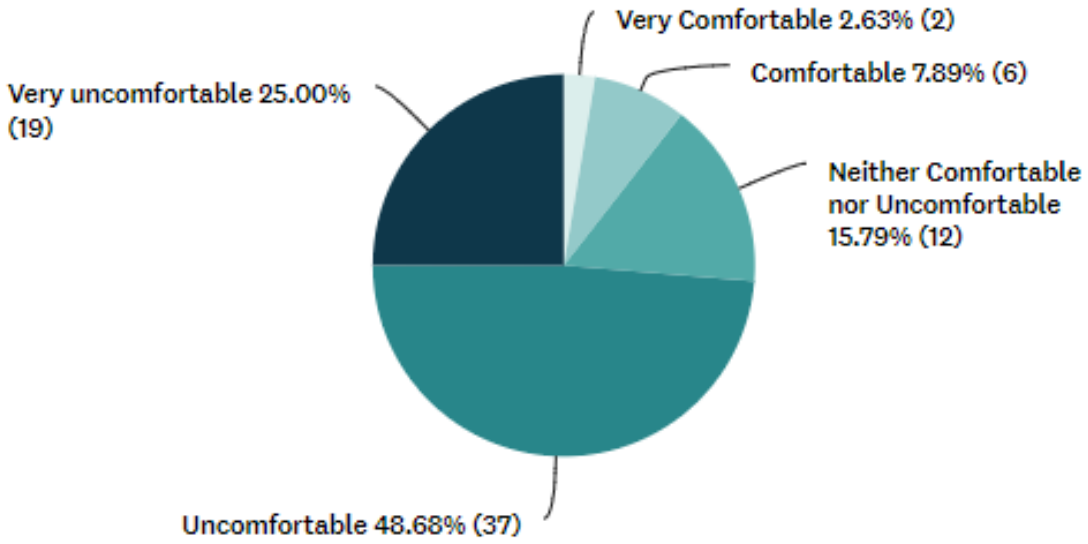
Answered: 82 Skipped: 21



Online Survey – question about biking

From a perspective of traffic safety, how comfortable do you feel biking in Middletown Township?

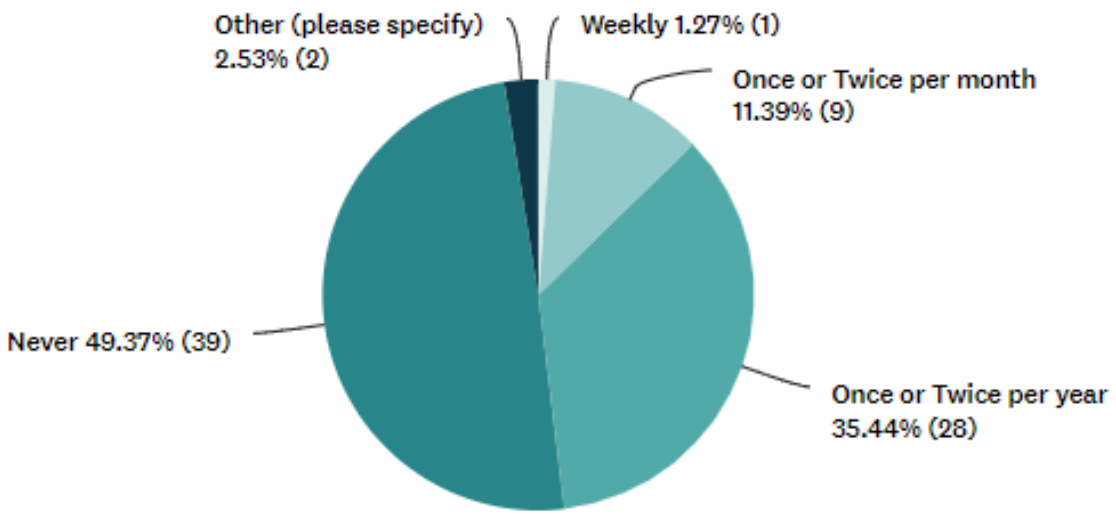
Answered: 76 Skipped: 27



Online Survey – question about transit

Aside from transportation to work or school, how frequently do you use public transportation to access your chosen destination?

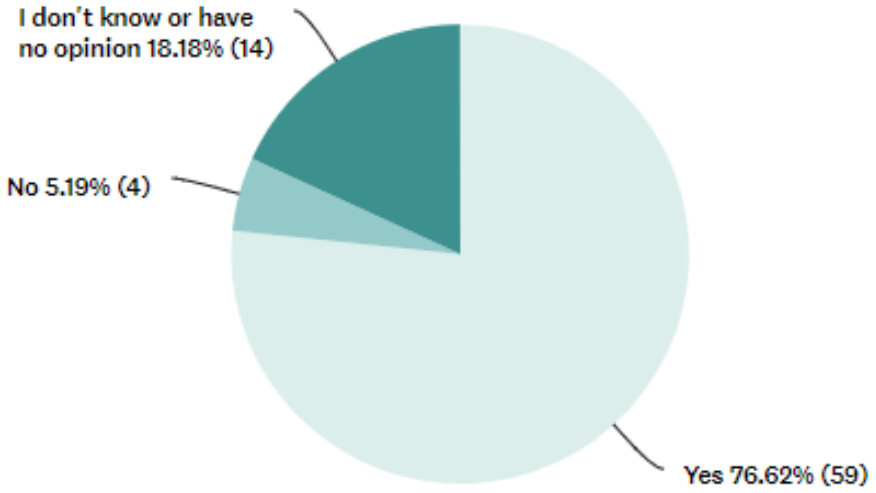
Answered: 79 Skipped: 24



Online Survey – question for motorists

Adding more sidewalks and trails would increase the amount of pedestrians and bicyclists in Middletown and decrease the amount of cars on the road. Please give your assessment of the following statement: As a motorist I would accept a slightly longer travel time if that meant a safer environment for pedestrians.

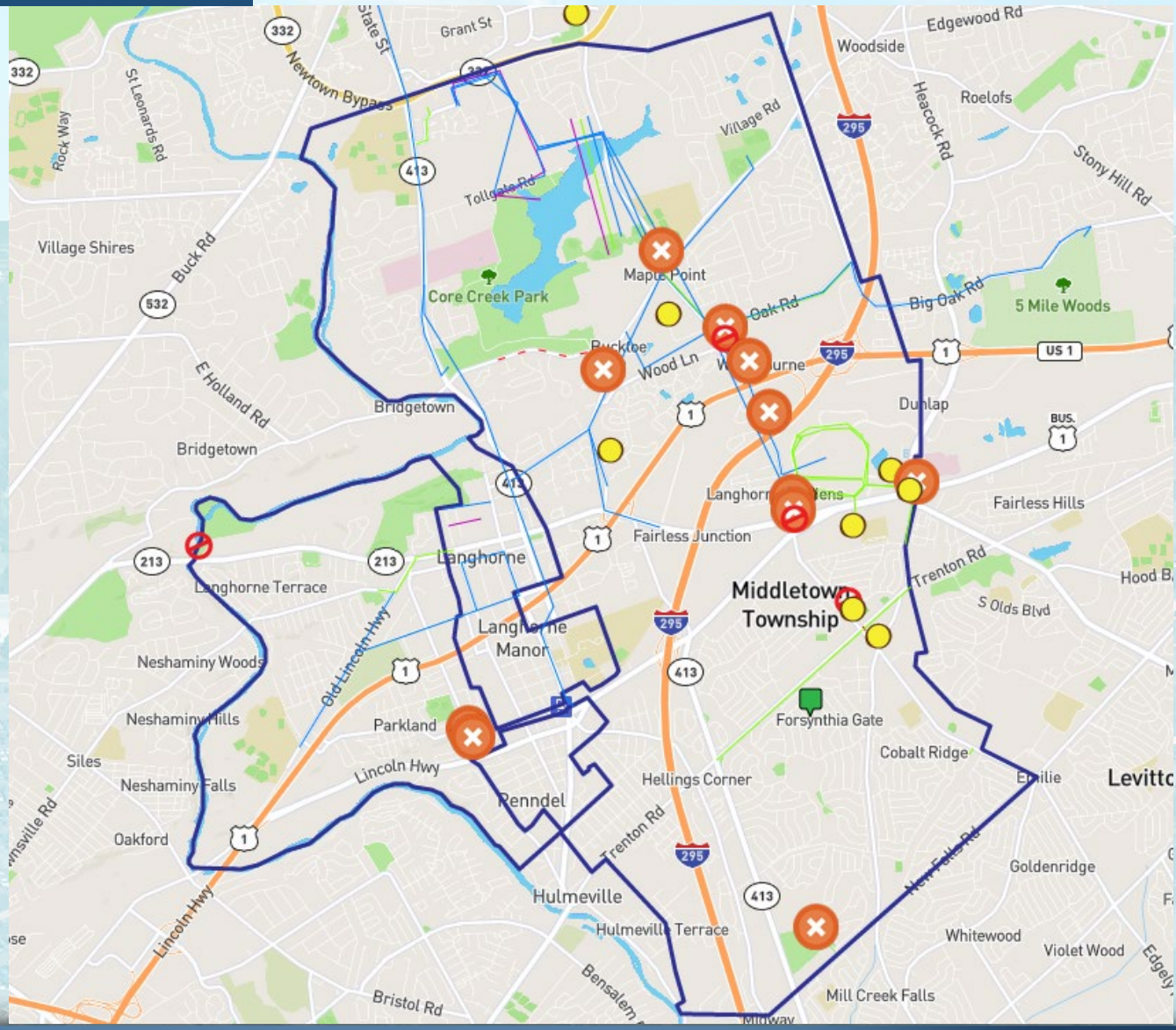
Answered: 77 Skipped: 26



Online Mapping – Results overview

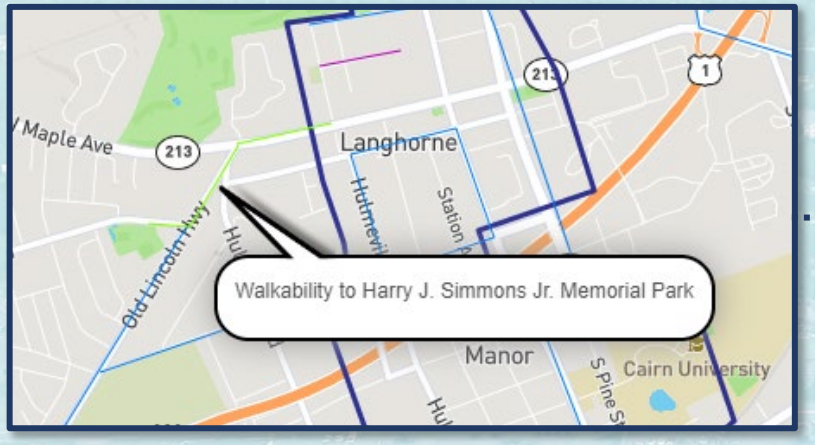
79 Results to date

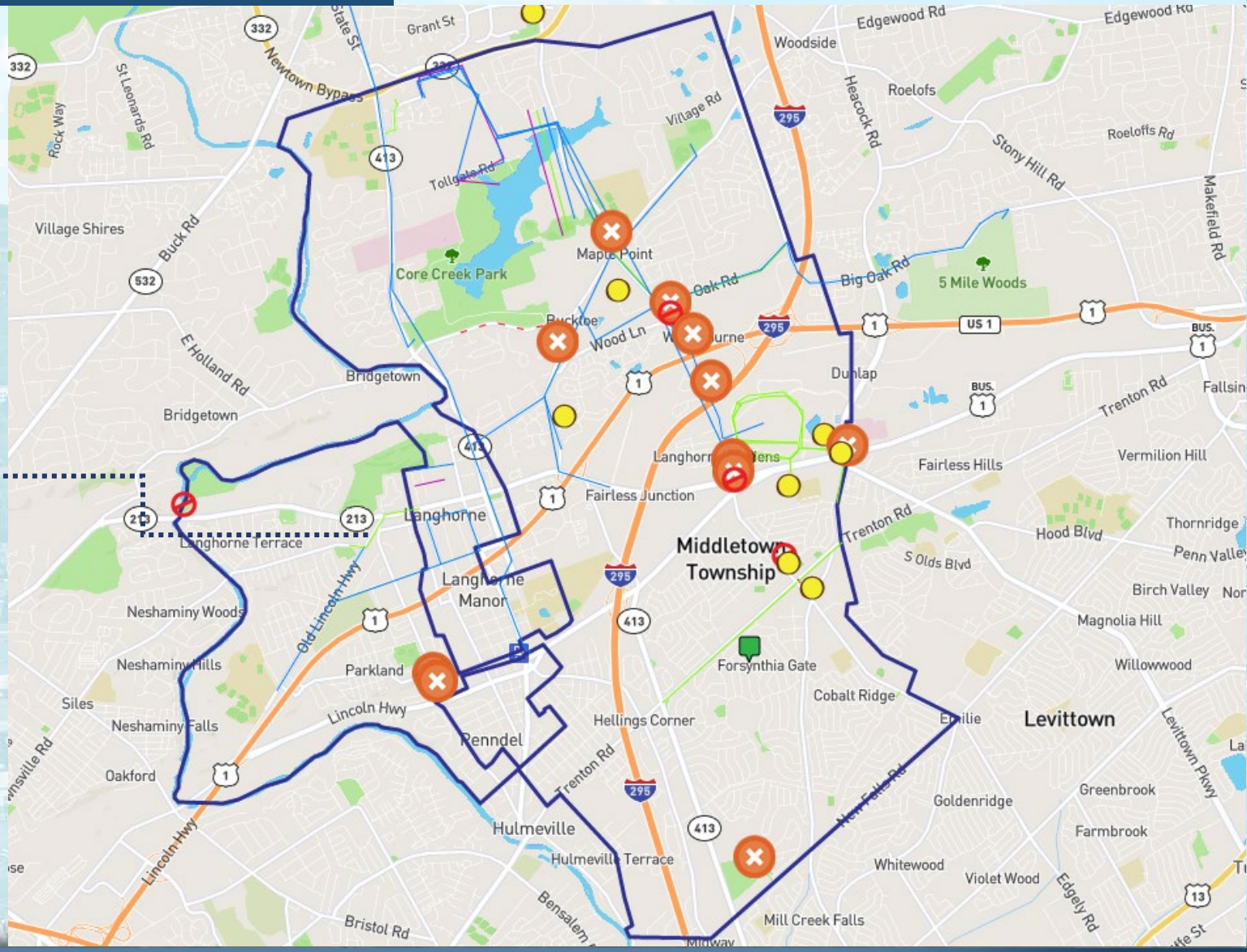
- BARRIERS TO CONNECTIVITY (7 total)
- DESIRED BIKE ROUTE (20 Total)
- DESIRED SIDEWALK (18 Total)
- DESIRED TRAIL (3 Total)
- CHALLENGING AREAS (14 Total)
- CUTURAL/HISTORIC LOCATION (0 Total)
- DESIRED DESTINATION (11 Total)
- SIDEWALK GAP LOCATION (0 Total)



Online Mapping – Results detail

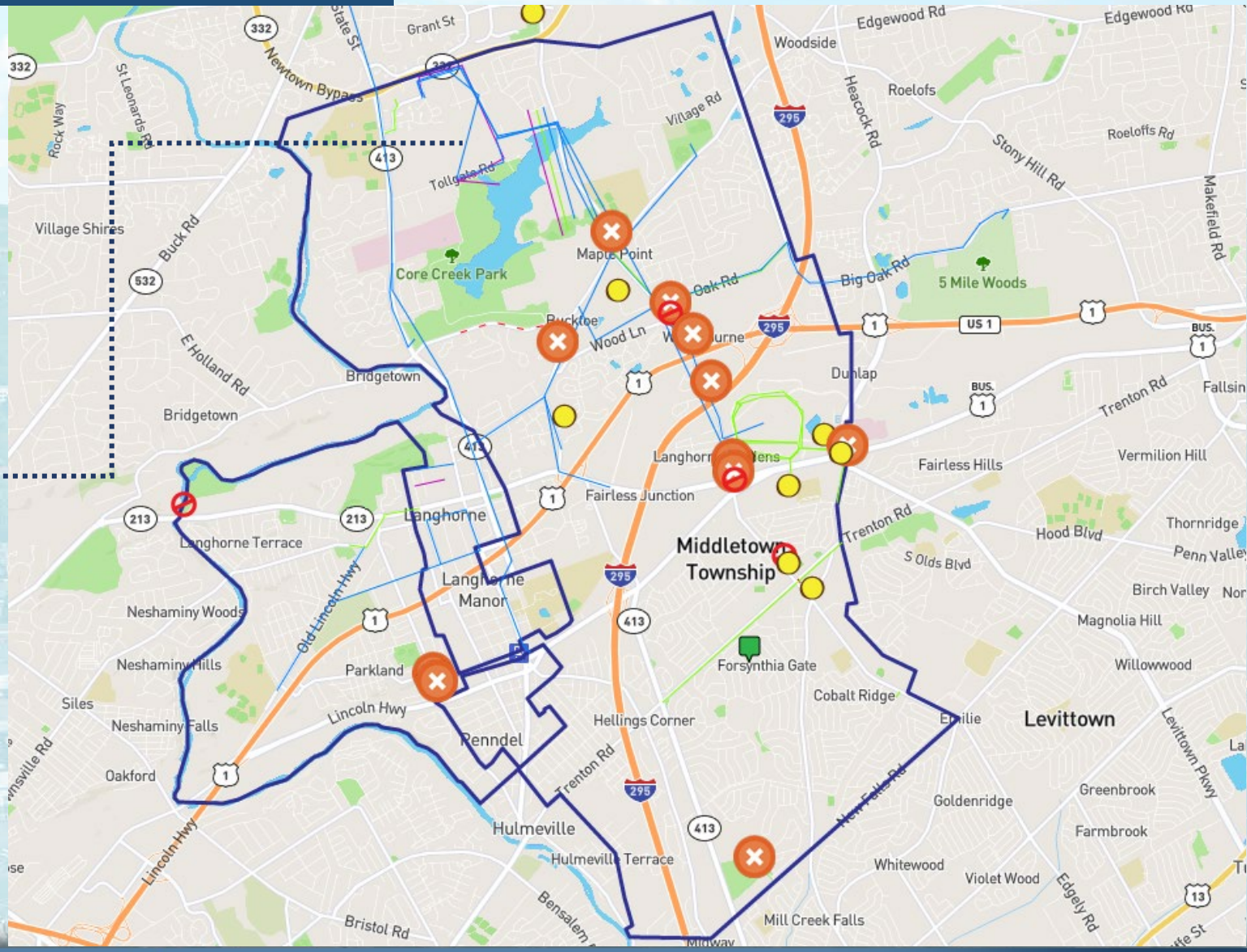
79 Results to date





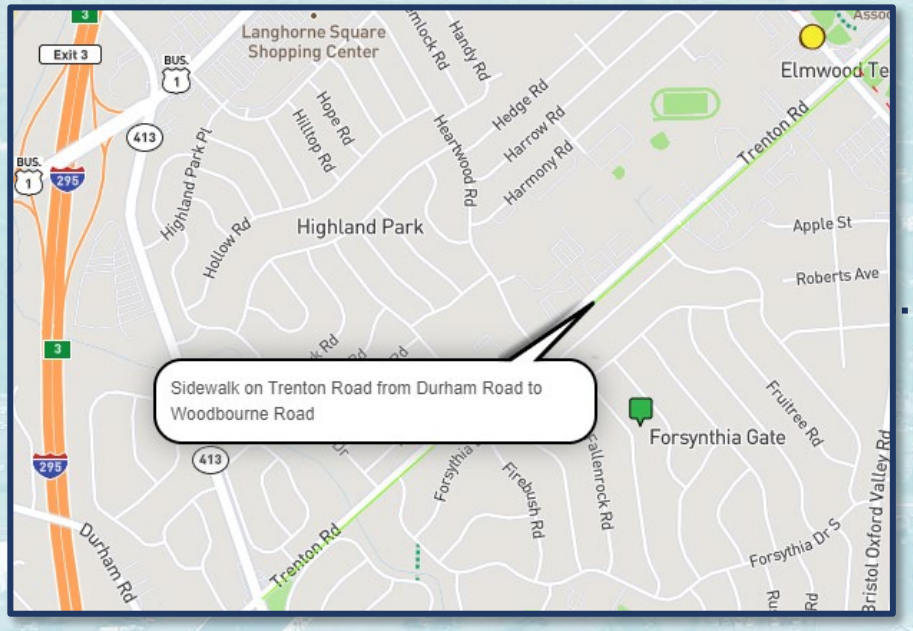
Online Mapping – Results detail

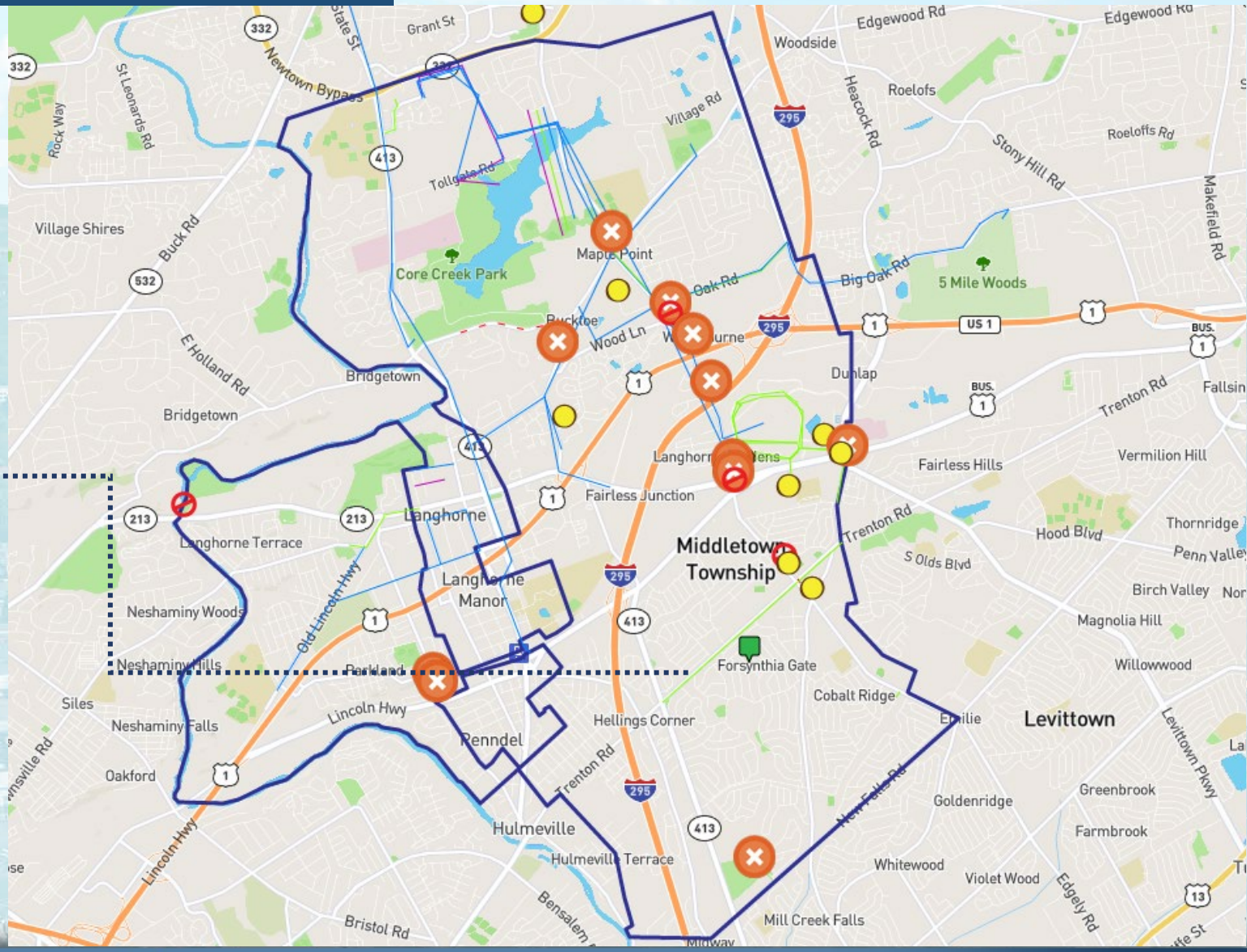
79 Results to date



Online Mapping – Results detail

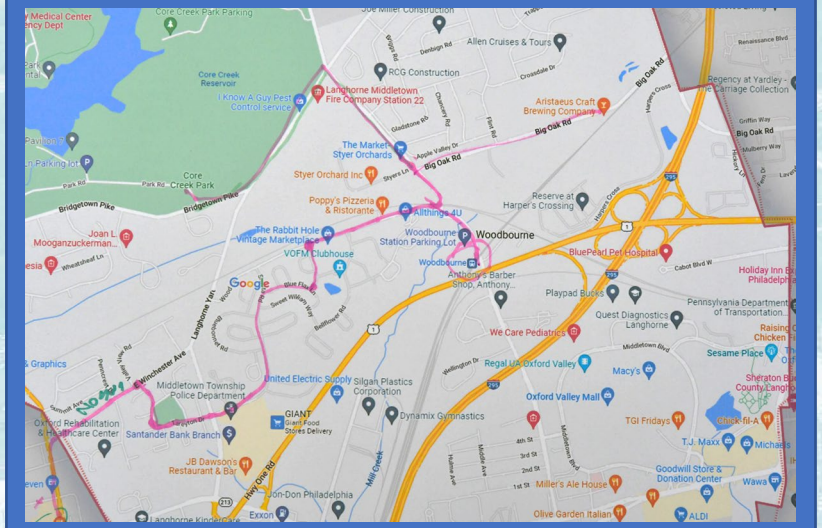
79 Results to date



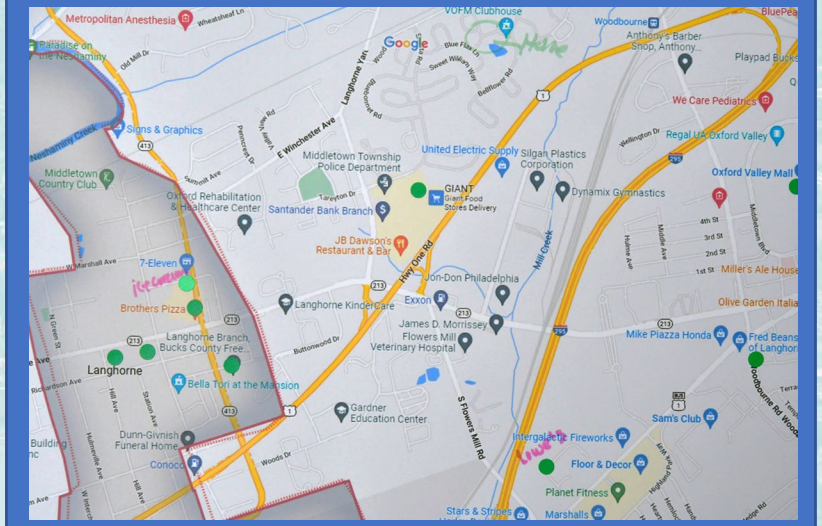


Desired routes, destinations and challenges

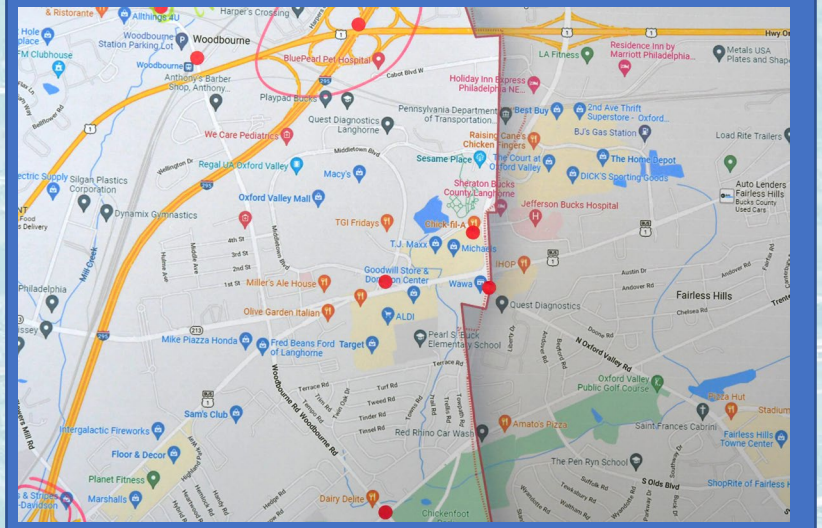
Desired Routes



Destinations



Challenges



Discussion with Community Members

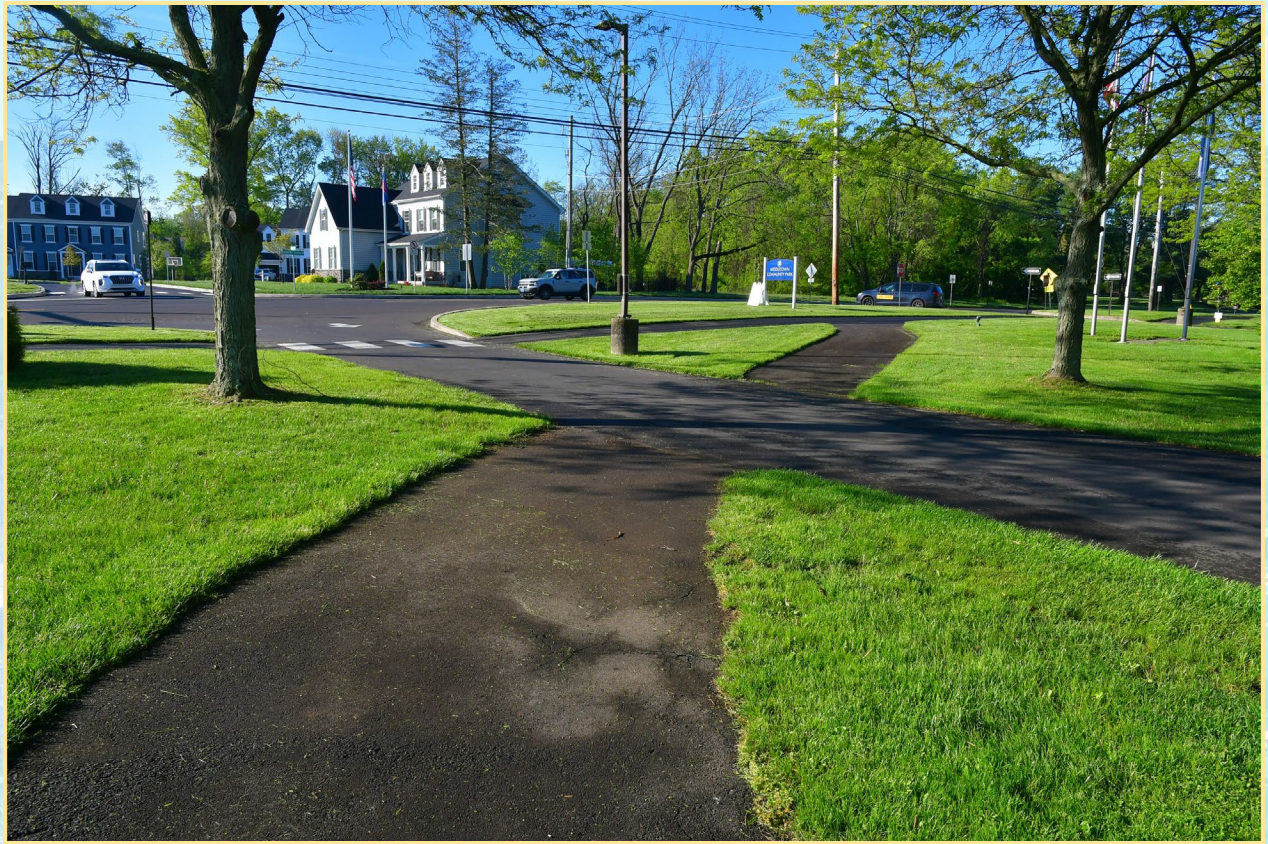
Bike King Cycling

- Bike King Bike Shop
  - Discussion about Trenton Road and Durham Road
  - Bike lanes where feasible
  - Most riding in Township happening at Core Creek Park

Site Reconnaissance

Site Reconnaissance

Middletown Community Park – Entrance



Middletown Community Park

Site Reconnaissance

Trenton Road

Snowball Drive

Site Reconnaissance

Durham Road over 295

Langhorne Newtown Road (413)

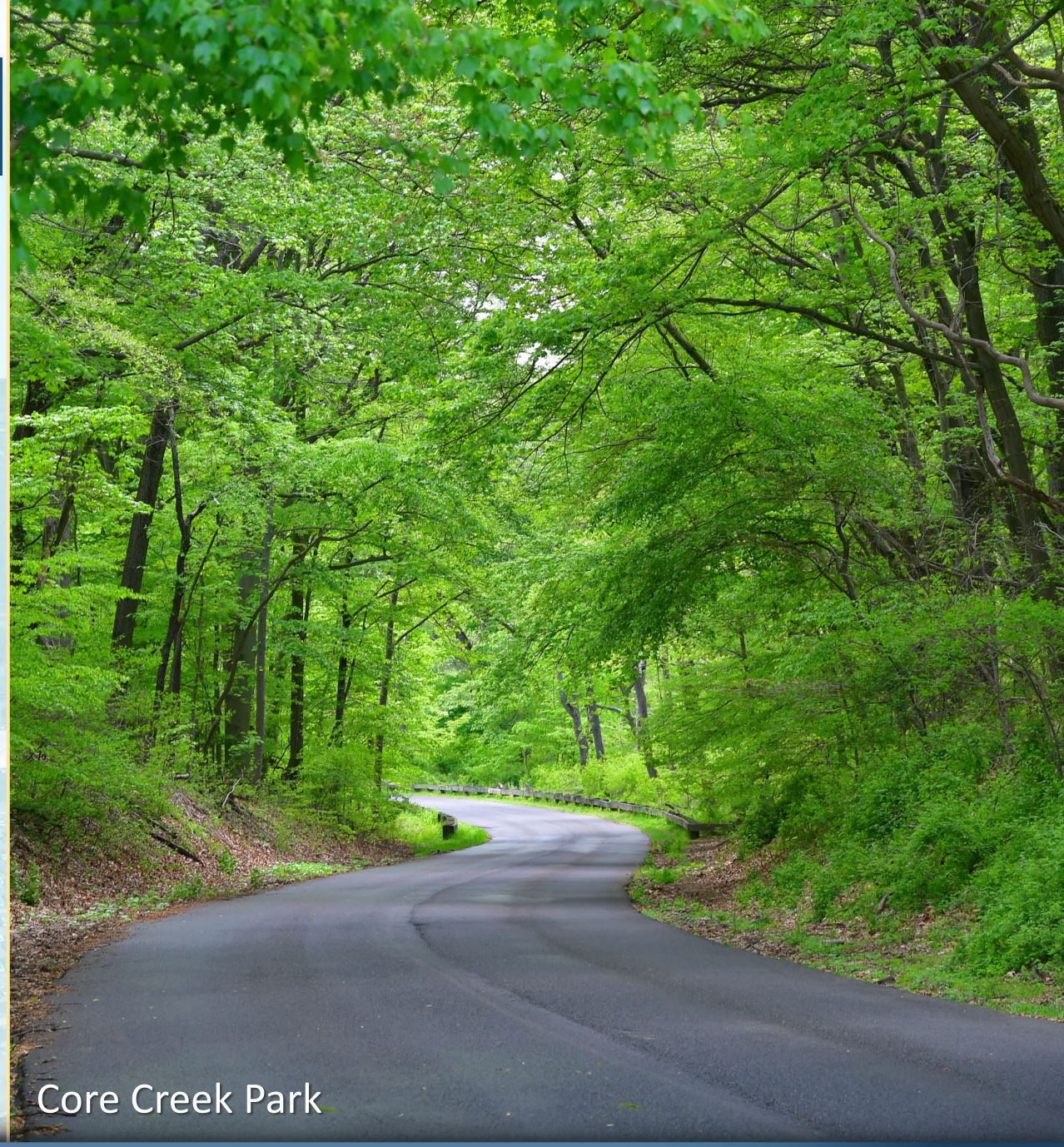
Site Reconnaissance

Snowball Drive Bridge to Forsythia Dr

Delaware Park/Mill Creek Tributary

Site Reconnaissance

Lincoln Highway / Business Route 1



Core Creek Park

Site Reconnaissance

Forsythia Crossing

Site Reconnaissance

Danby Way

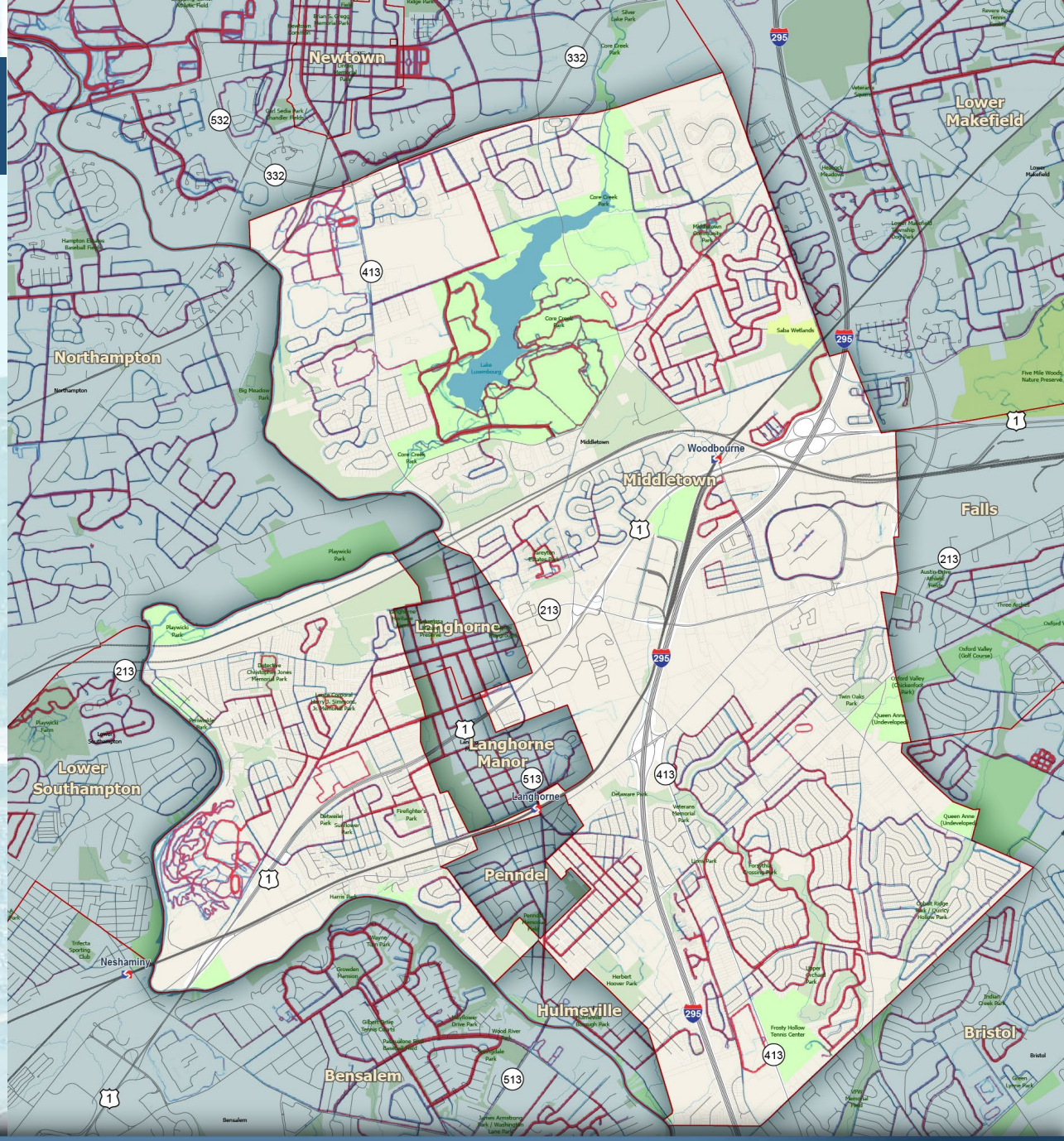
Killburn Rd

Site Analysis Mapping

Study Area – Analysis

STRAVA

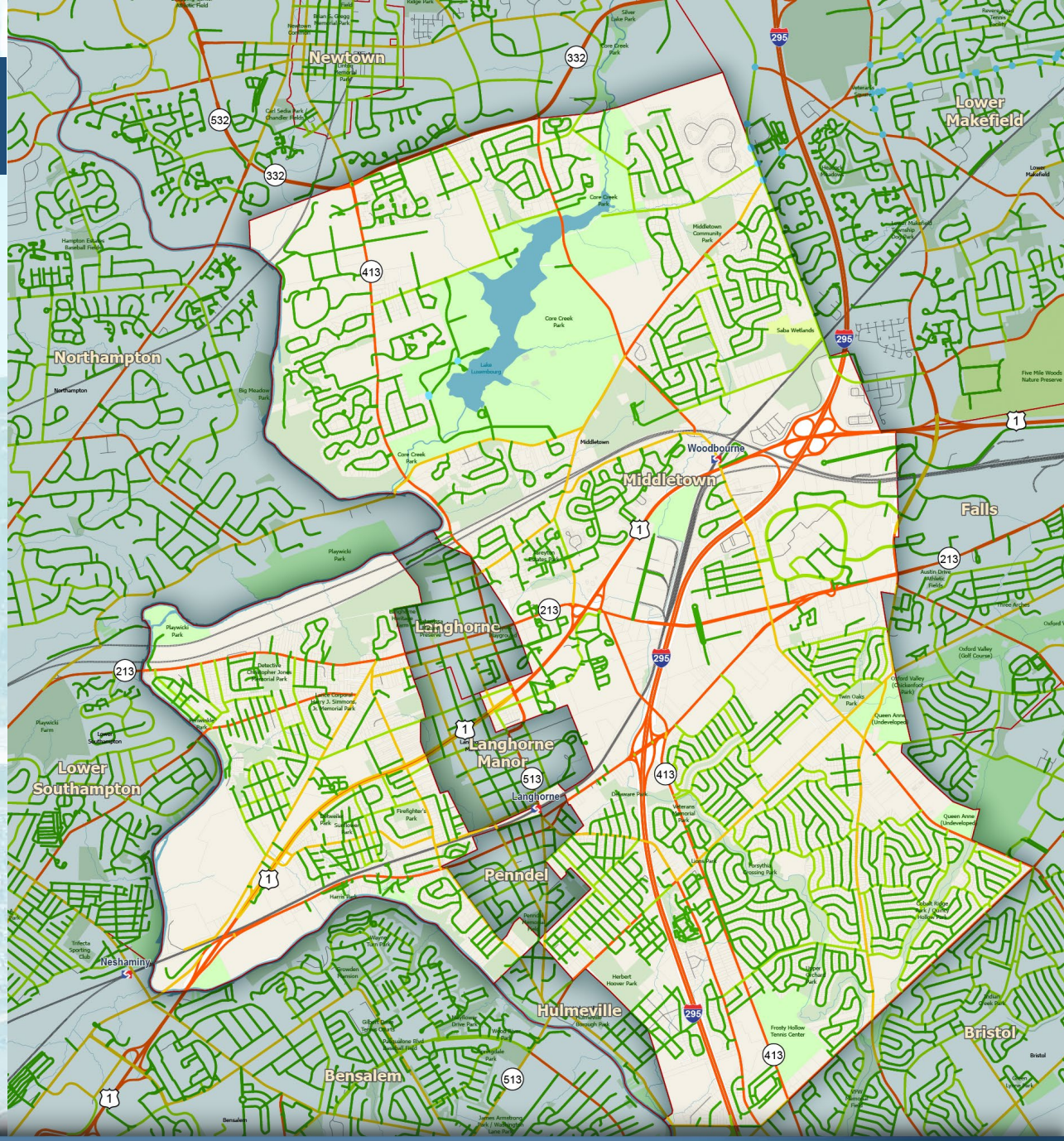
Strava is a phone APP used by cyclists and runners to track their activities. These HEAT maps show locations of existing concentrations of running and riding routes.



Study Area – Analysis

Level of Traffic Stress - DVRPC

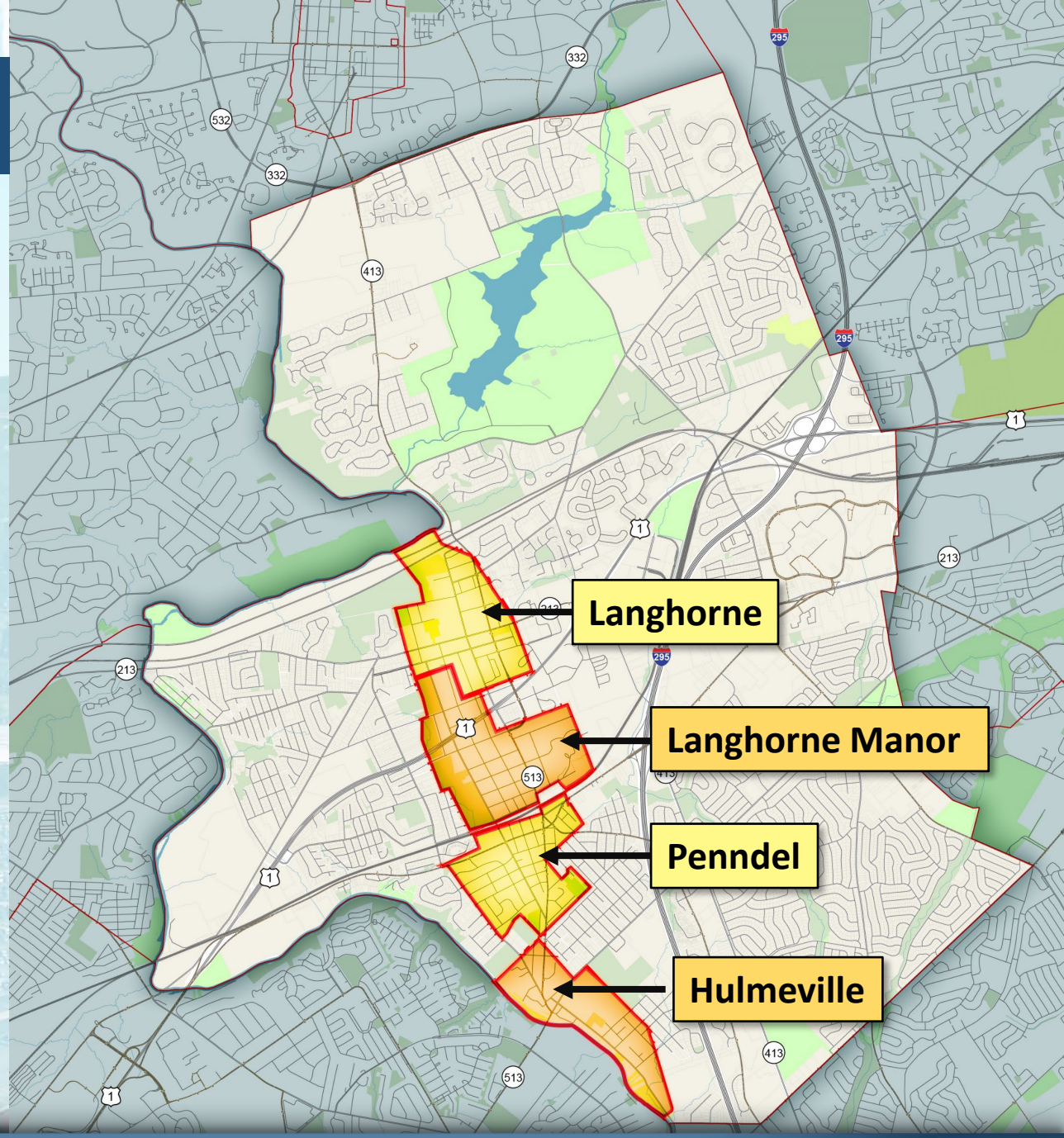
- Most People
- Interested, but concerned
- Enthused and confident
- Strong and fearless



Study Area – Analysis

Plan for the hole in the donut…

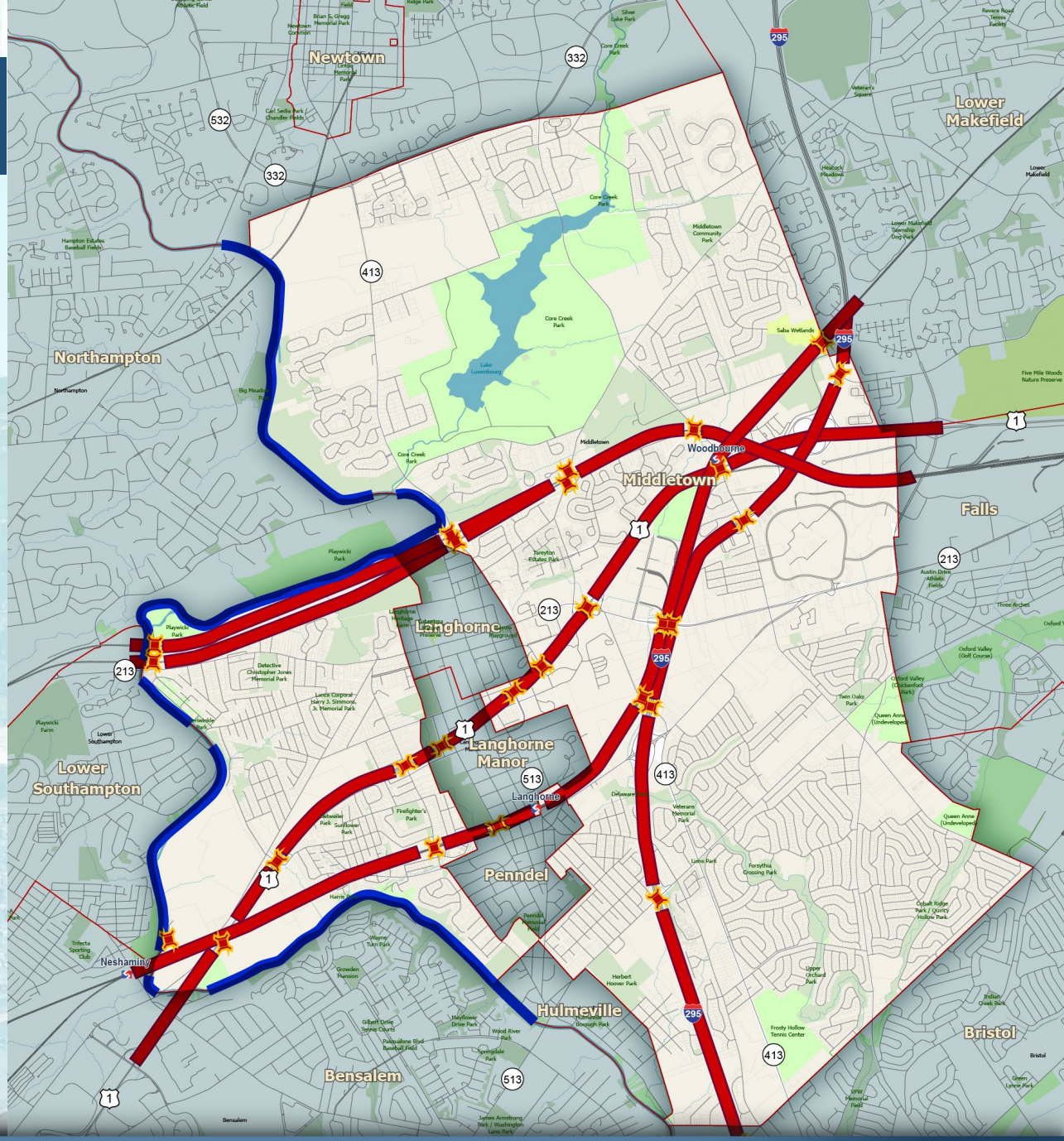
Langhorne, Langhorne Manor and Penndel are integral to smart connectivity planning.



Study Area - Analysis

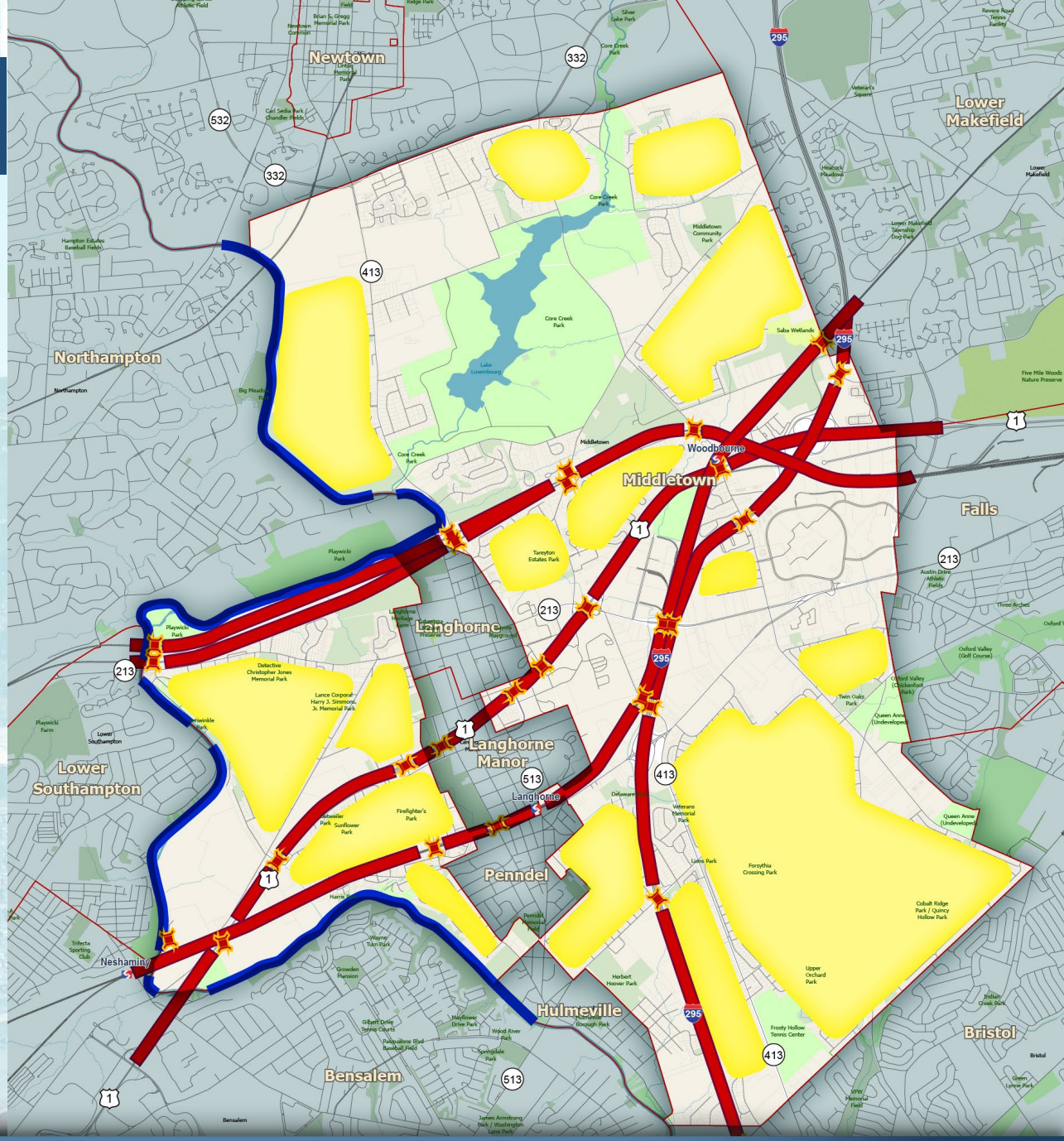
Barriers

Barrier Crossings



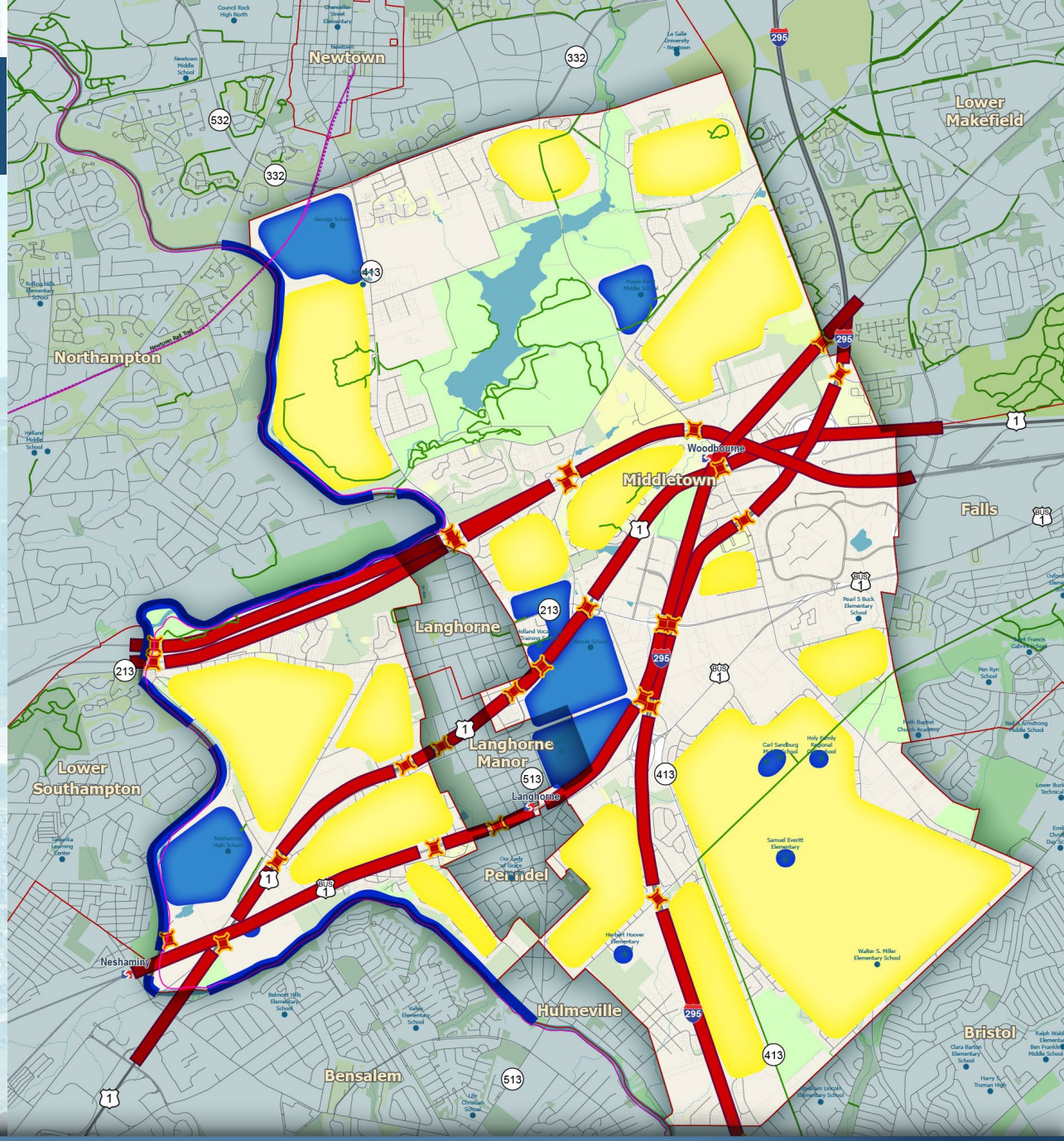
Study Area - Analysis

- Barriers
- Barrier Crossings
- Residential Areas



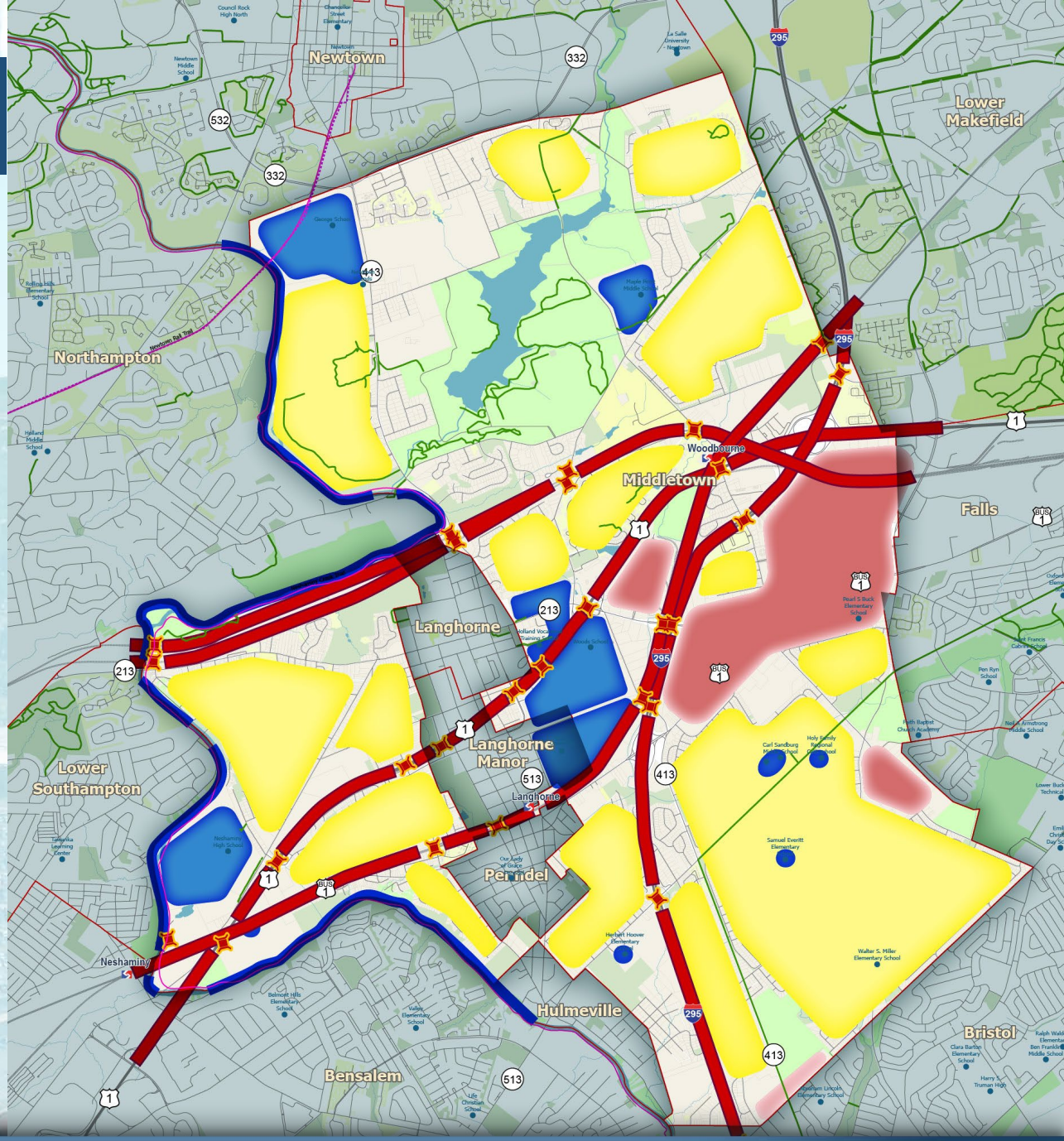
Study Area - Analysis

- Barriers
- Barrier Crossings
- Residential Areas
- Institutional Areas



Study Area - Analysis

- Barriers
- Barrier Crossings
- Residential Areas
- Institutional Areas
- Commercial Areas

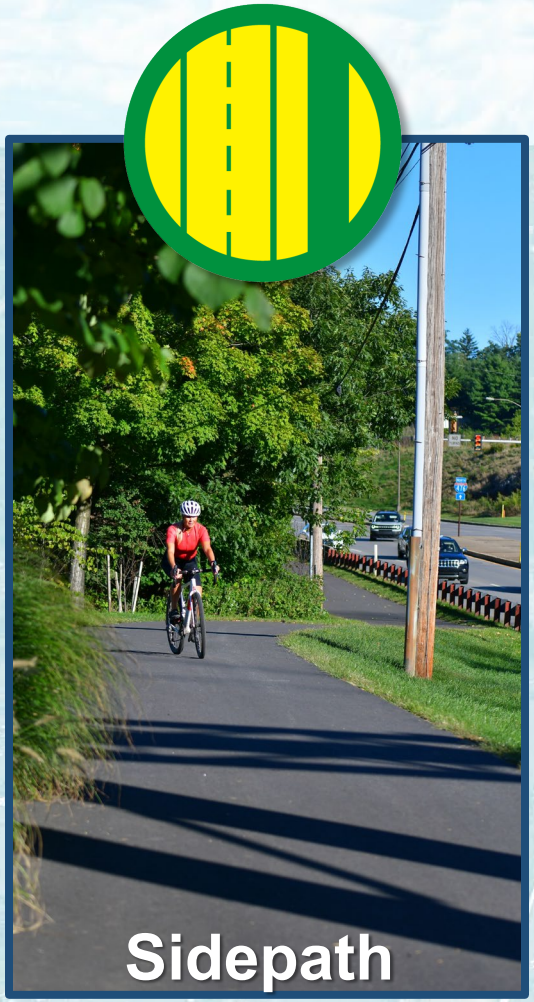


Improvement Toolbox Review

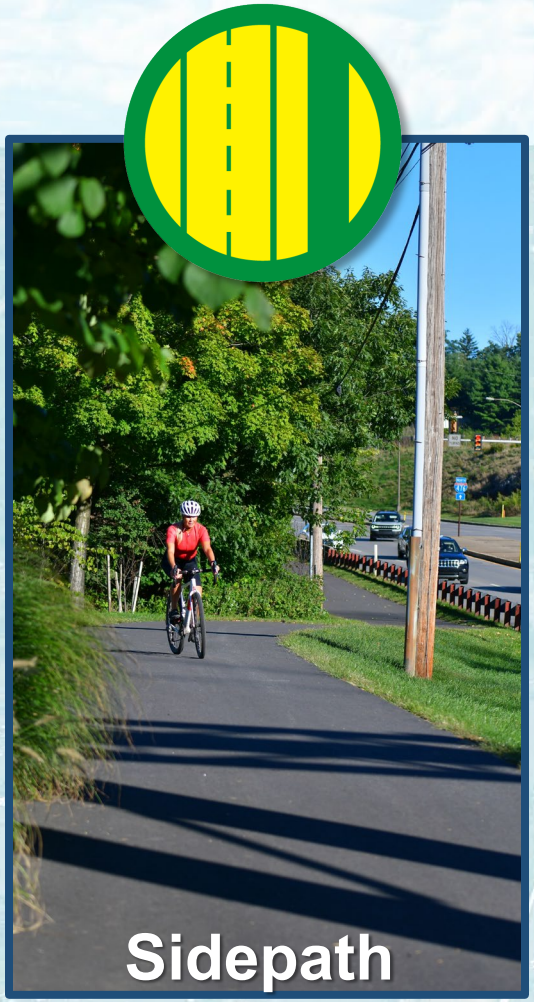
Improvement Toolbox

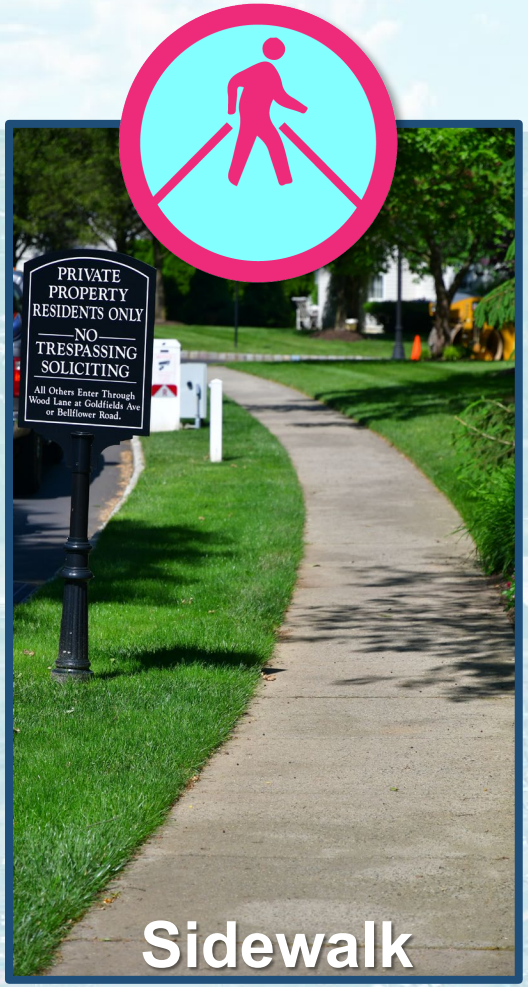
- Sidewalk
- Crosswalk
- Special Crossing
- Speed Table
- Speed Cushion
- Rapid Flashing Beacon
- Hand Man
- Pedestrian Refuge Island
- Multi-Use Trail
- Side Path
- Sharrow
- Bicycle Lane
- Tunnel
- Bridge

Improvement Toolbox

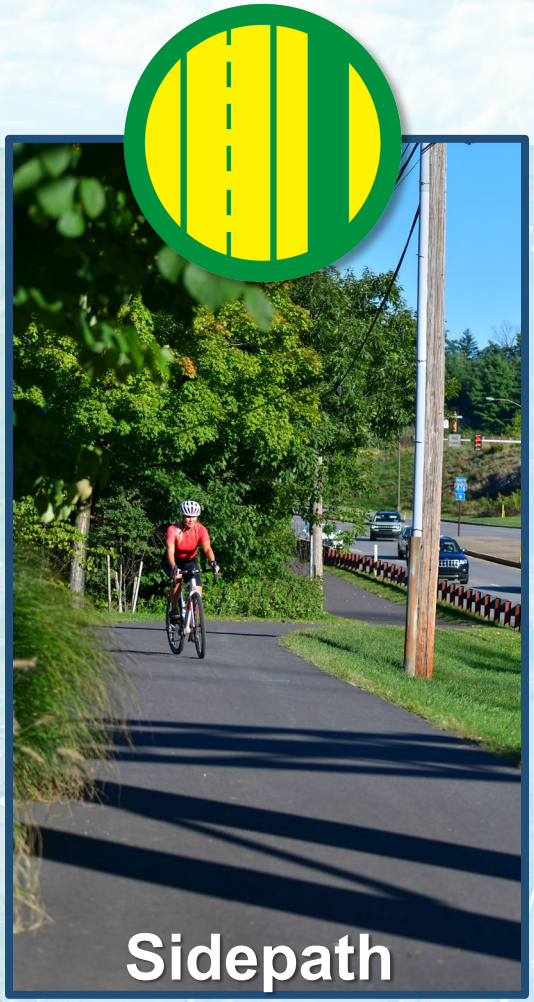


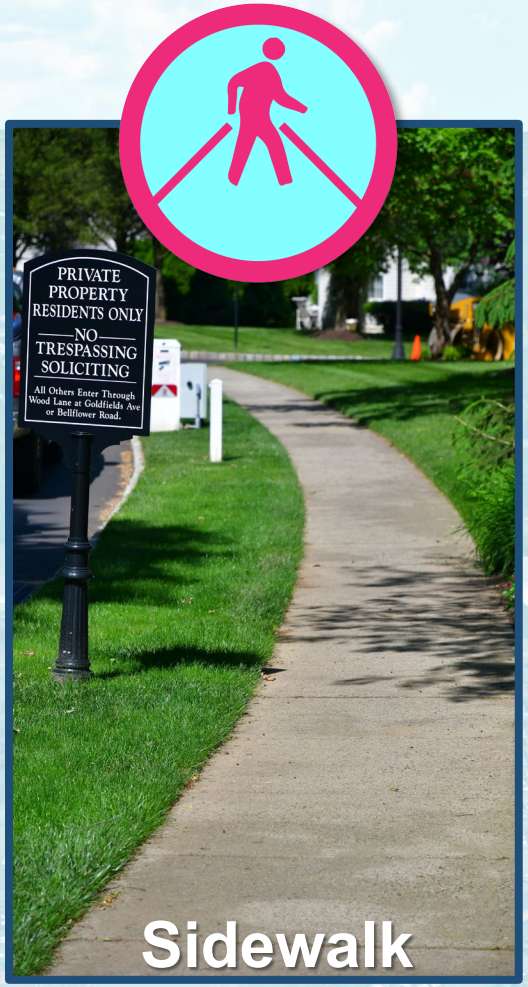
Improvement Toolbox

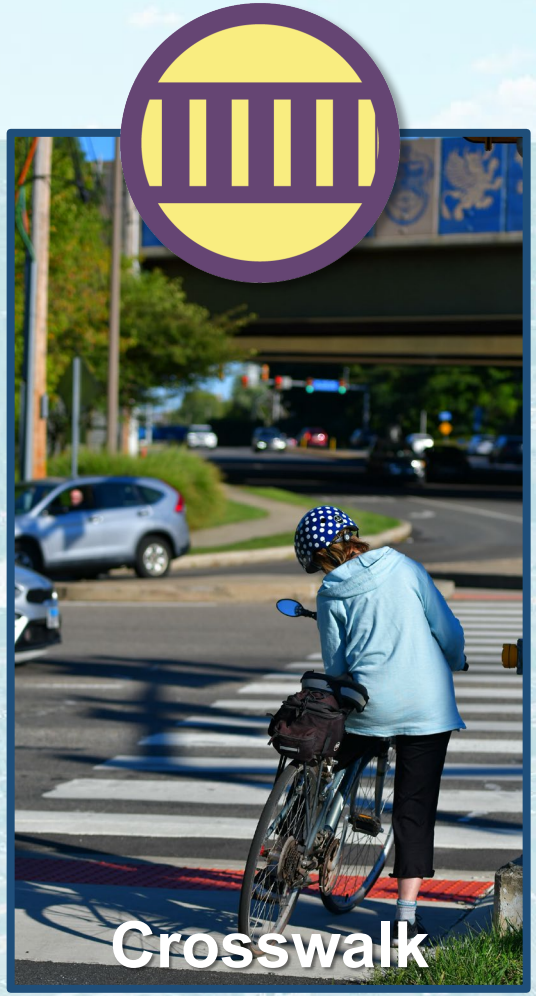




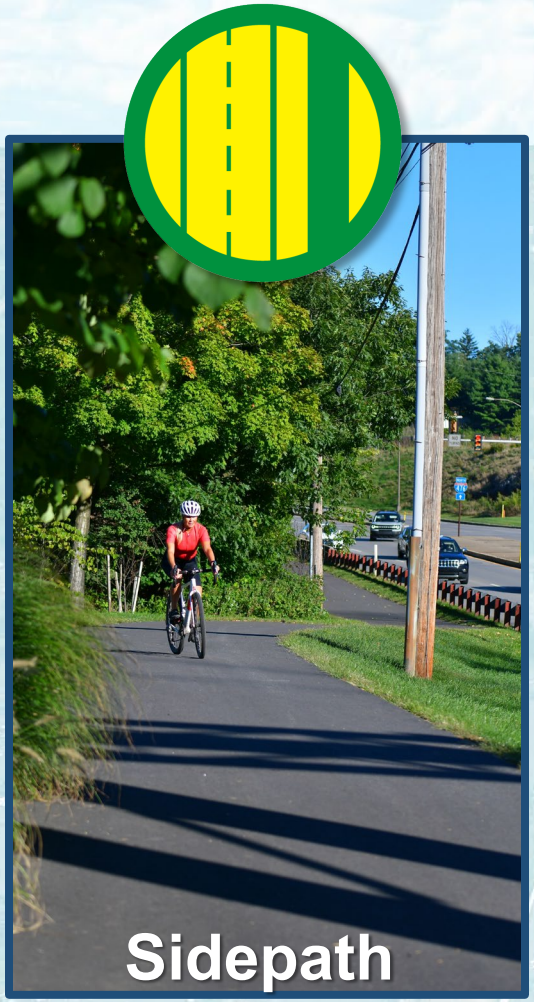
Improvement Toolbox

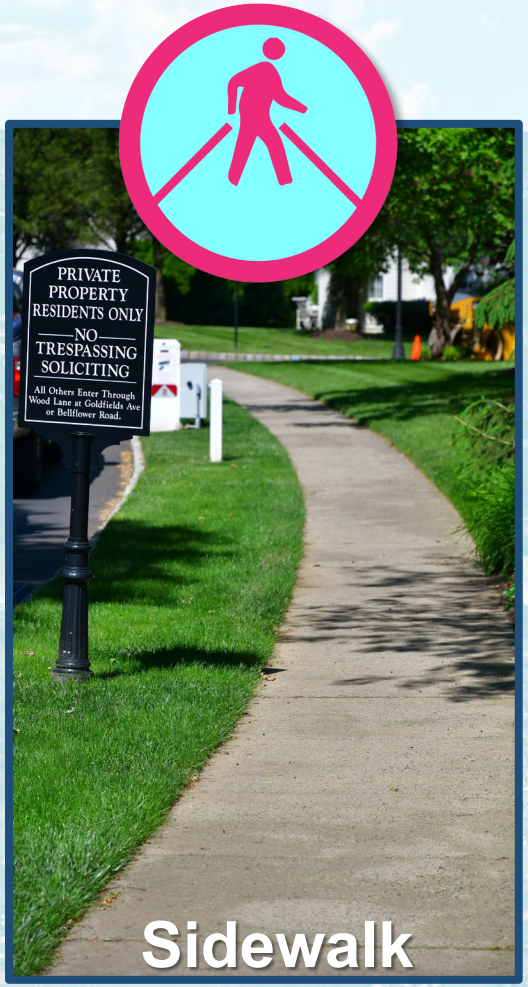


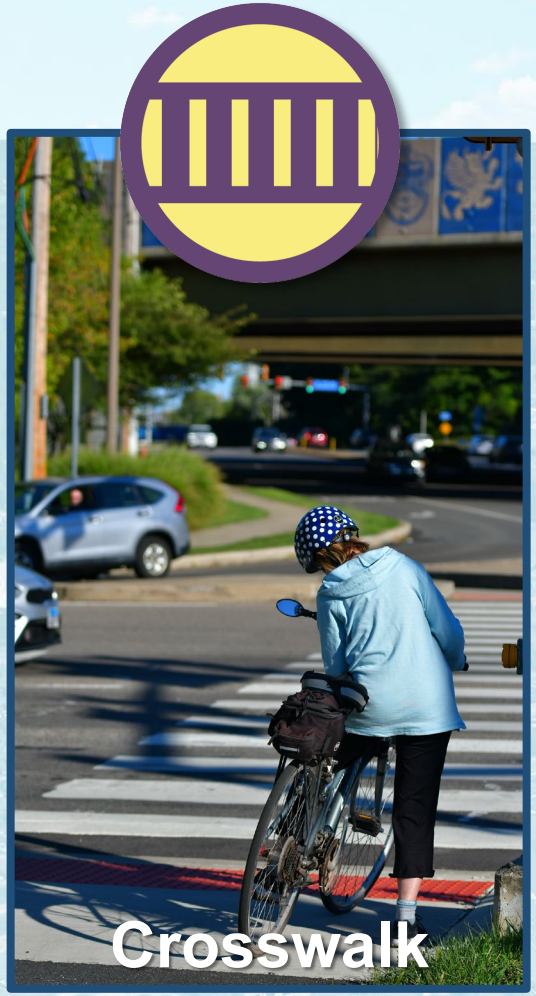




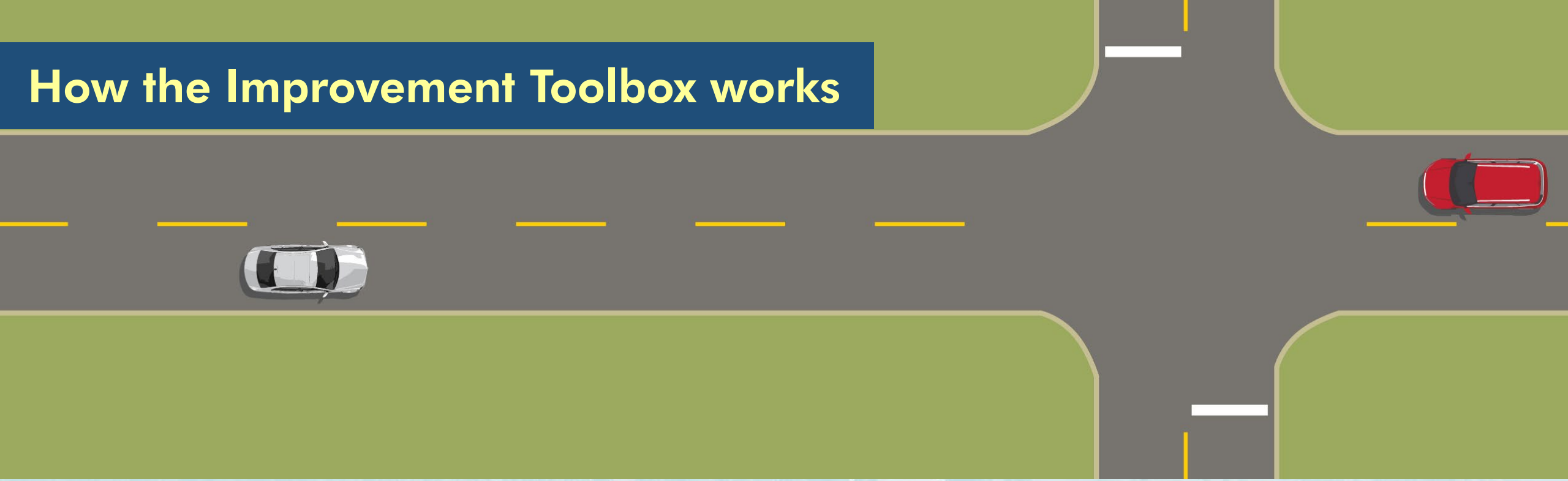
Improvement Toolbox



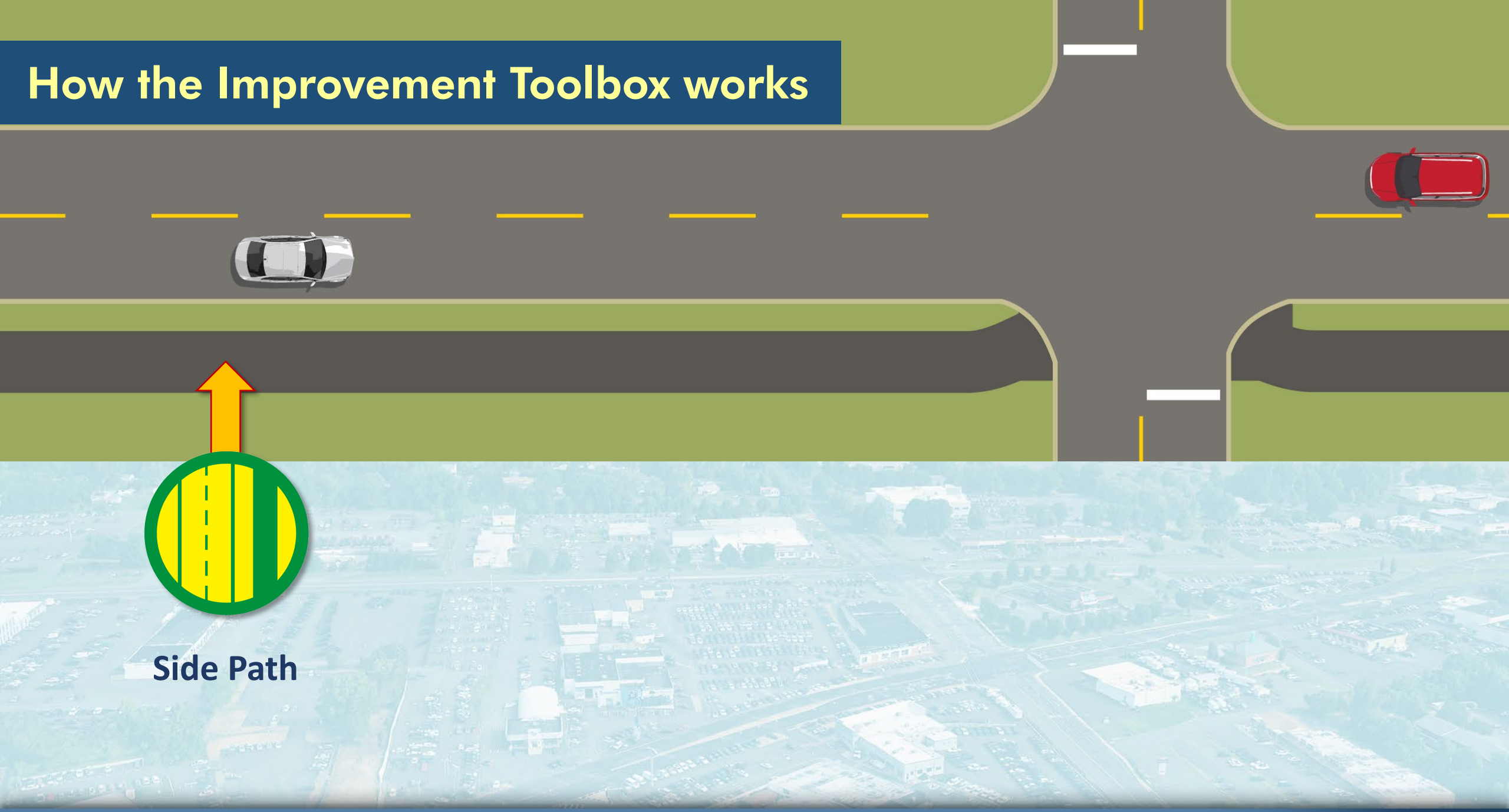




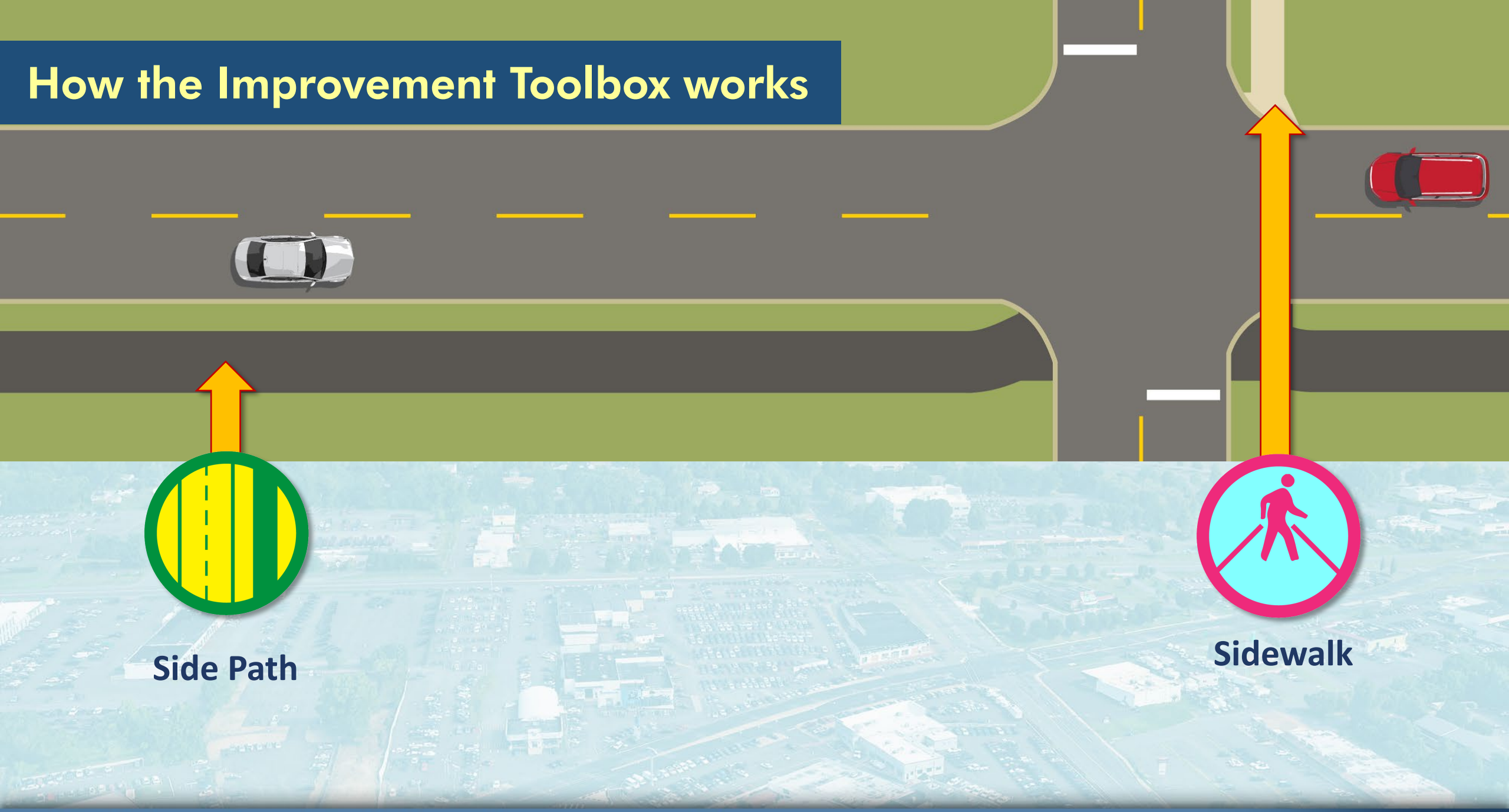
How the Improvement Toolbox works



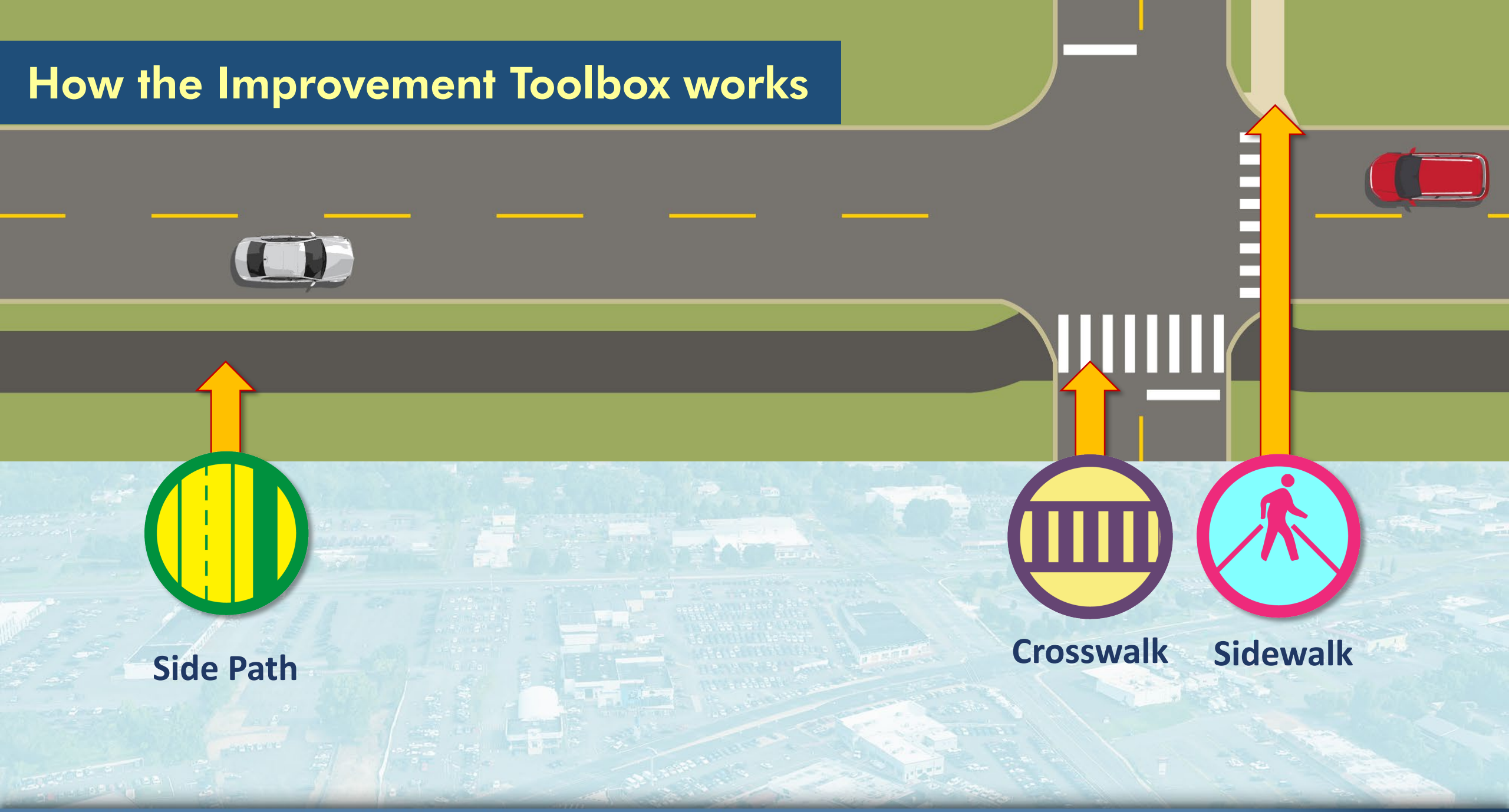
How the Improvement Toolbox works



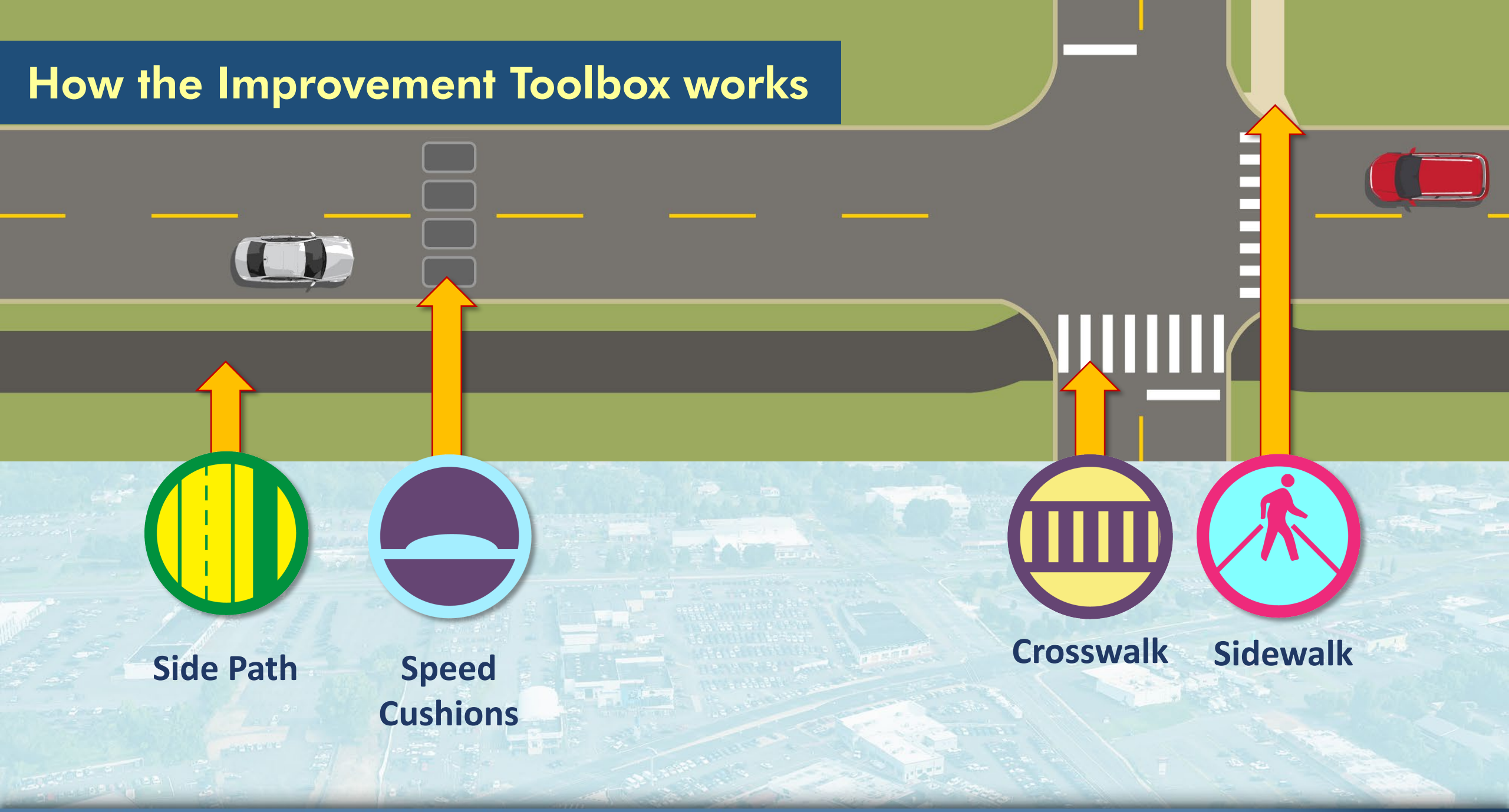
How the Improvement Toolbox works



How the Improvement Toolbox works

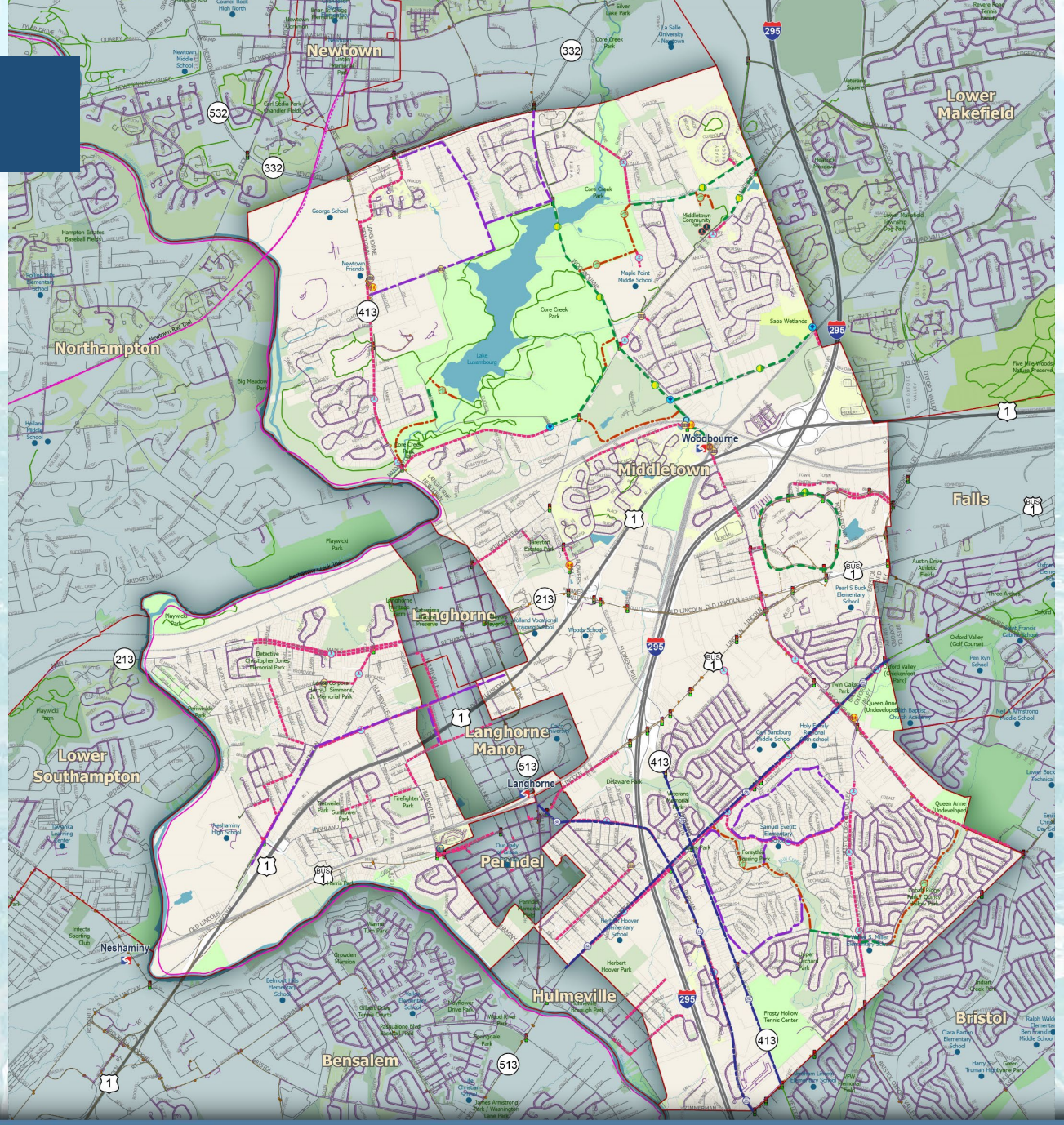


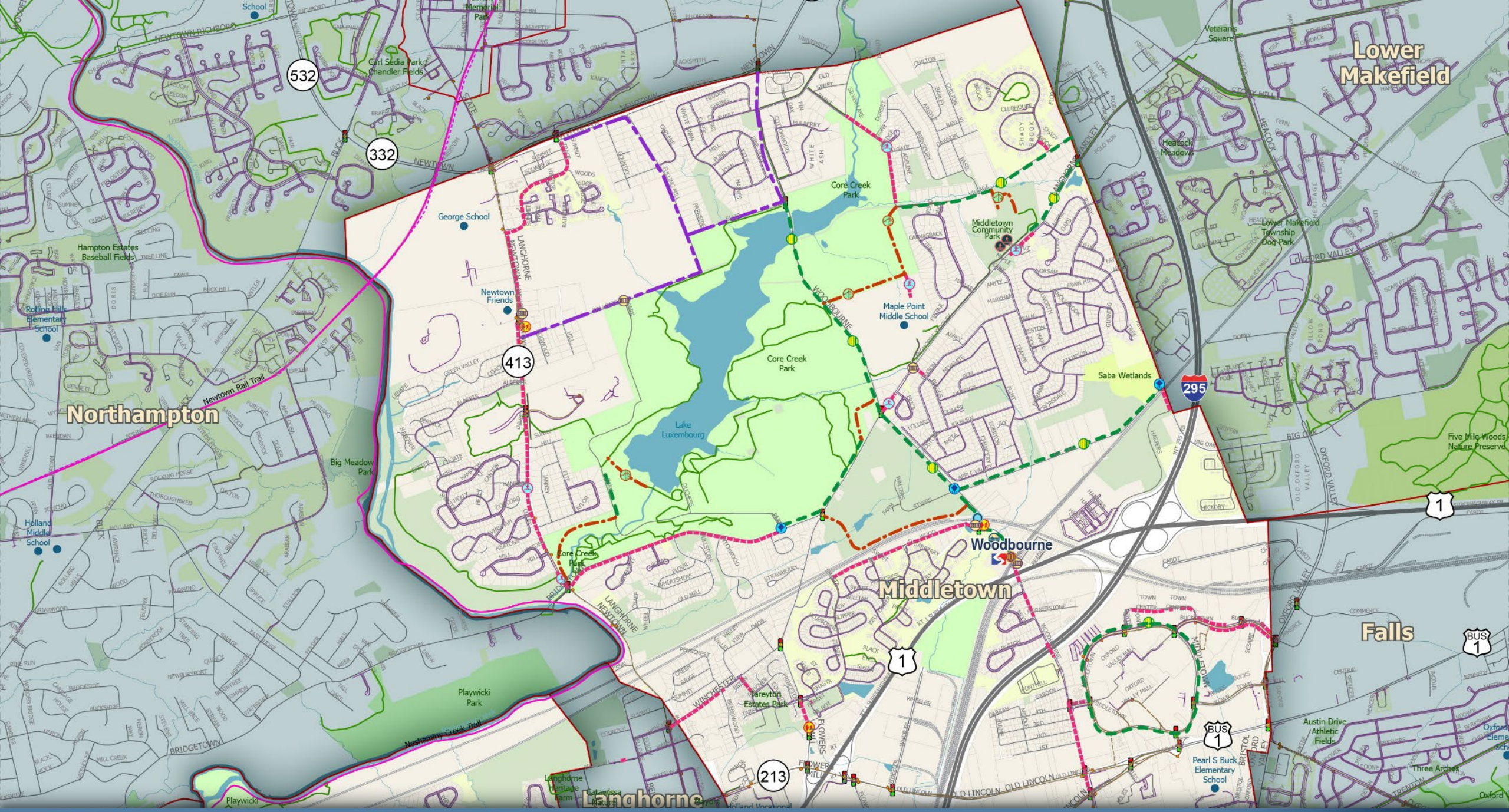
How the Improvement Toolbox works



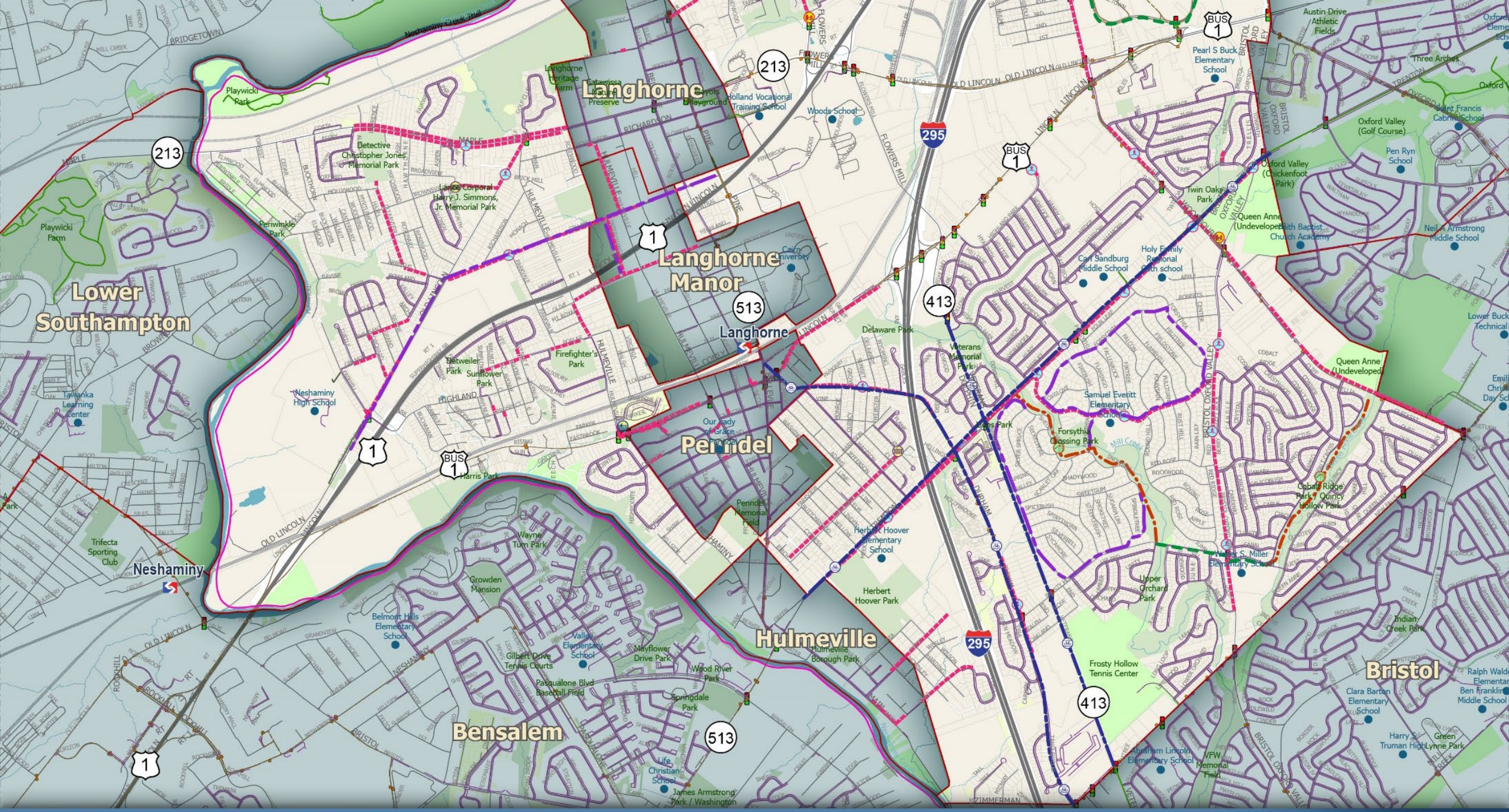
Initial Concepts – to date

Initial Concepts



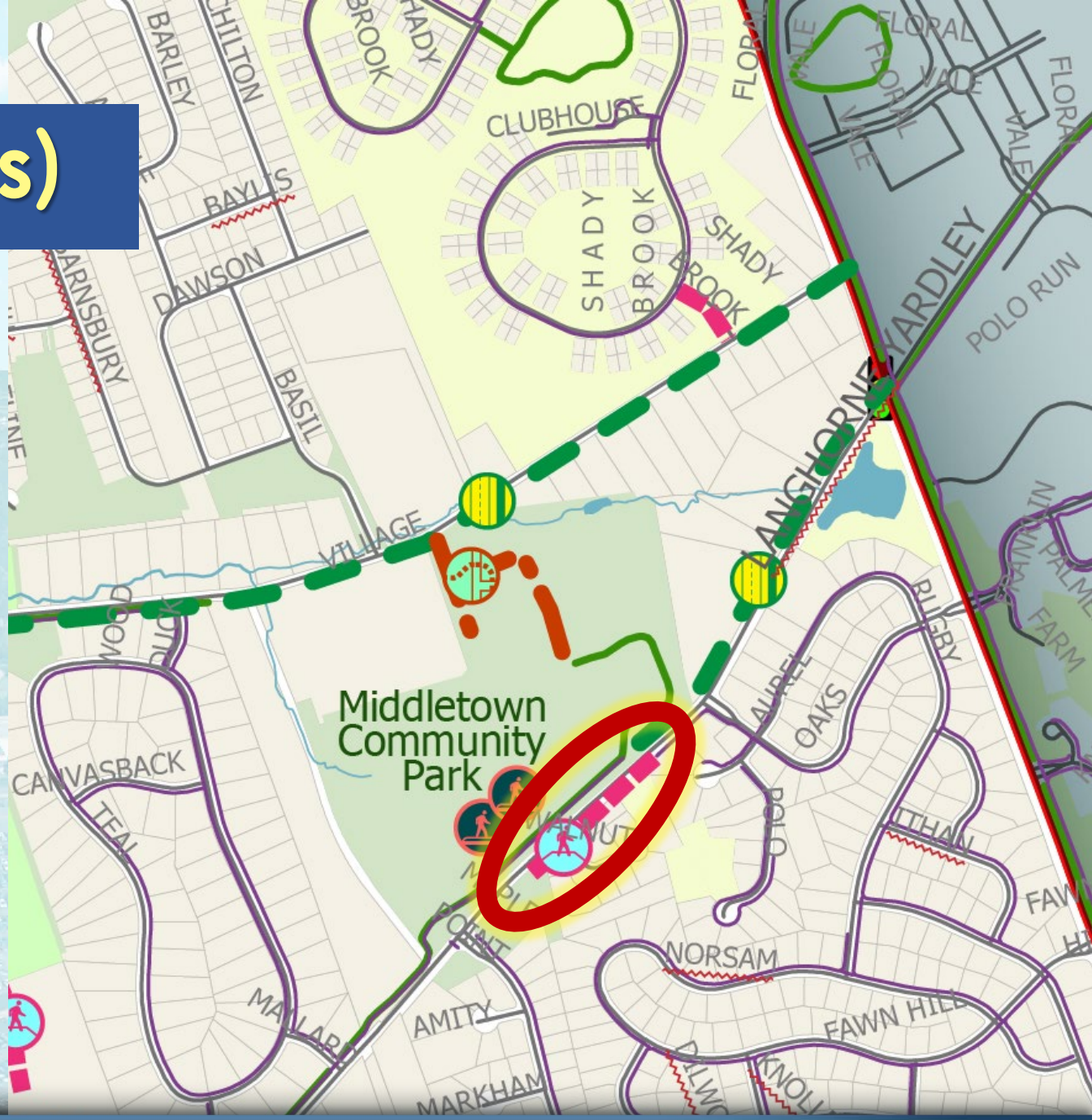


Middletown Township Multimodal Improvement Plan

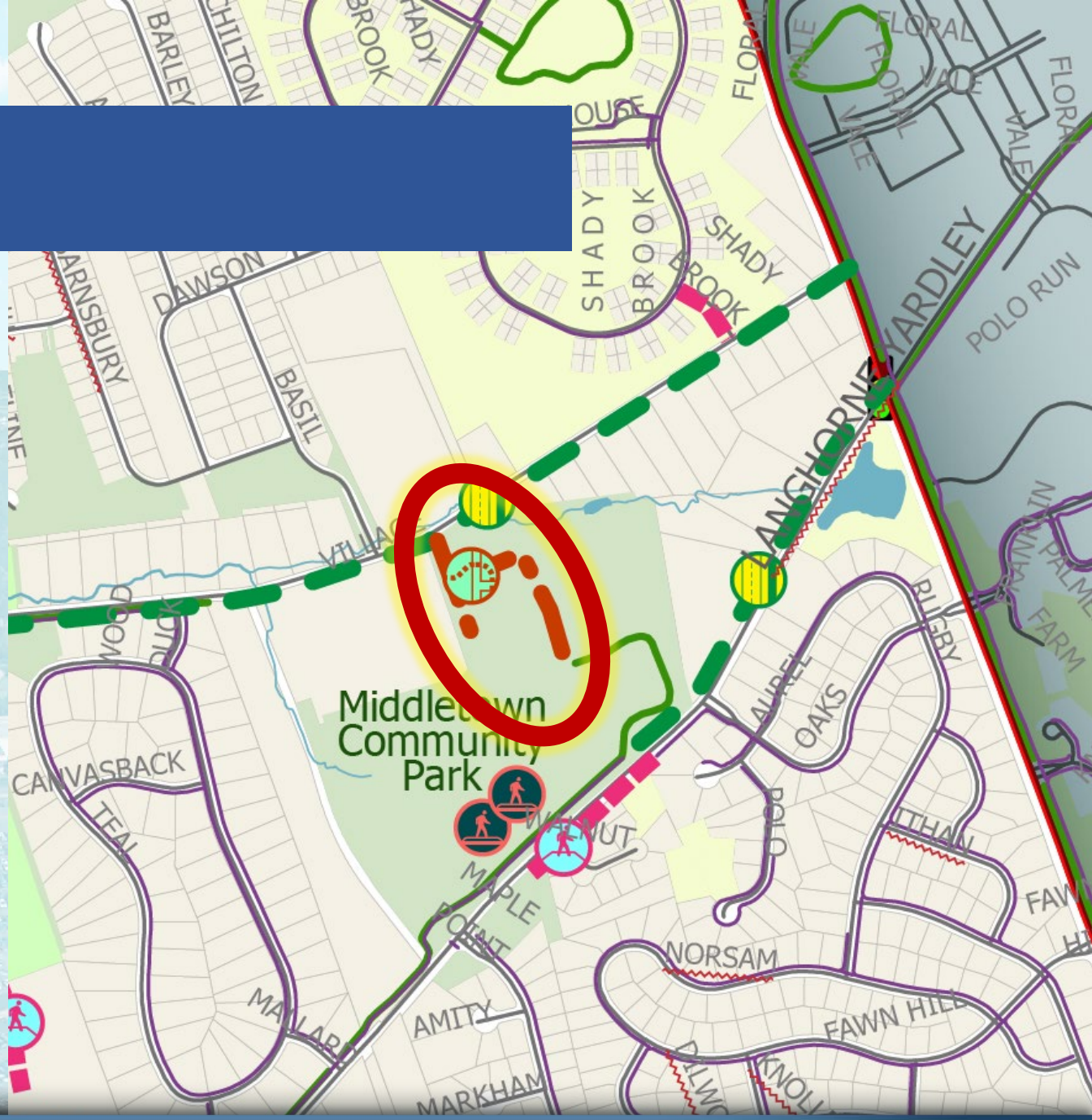


Middletown Township Multimodal Improvement Plan

Sidewalk (Gaps)

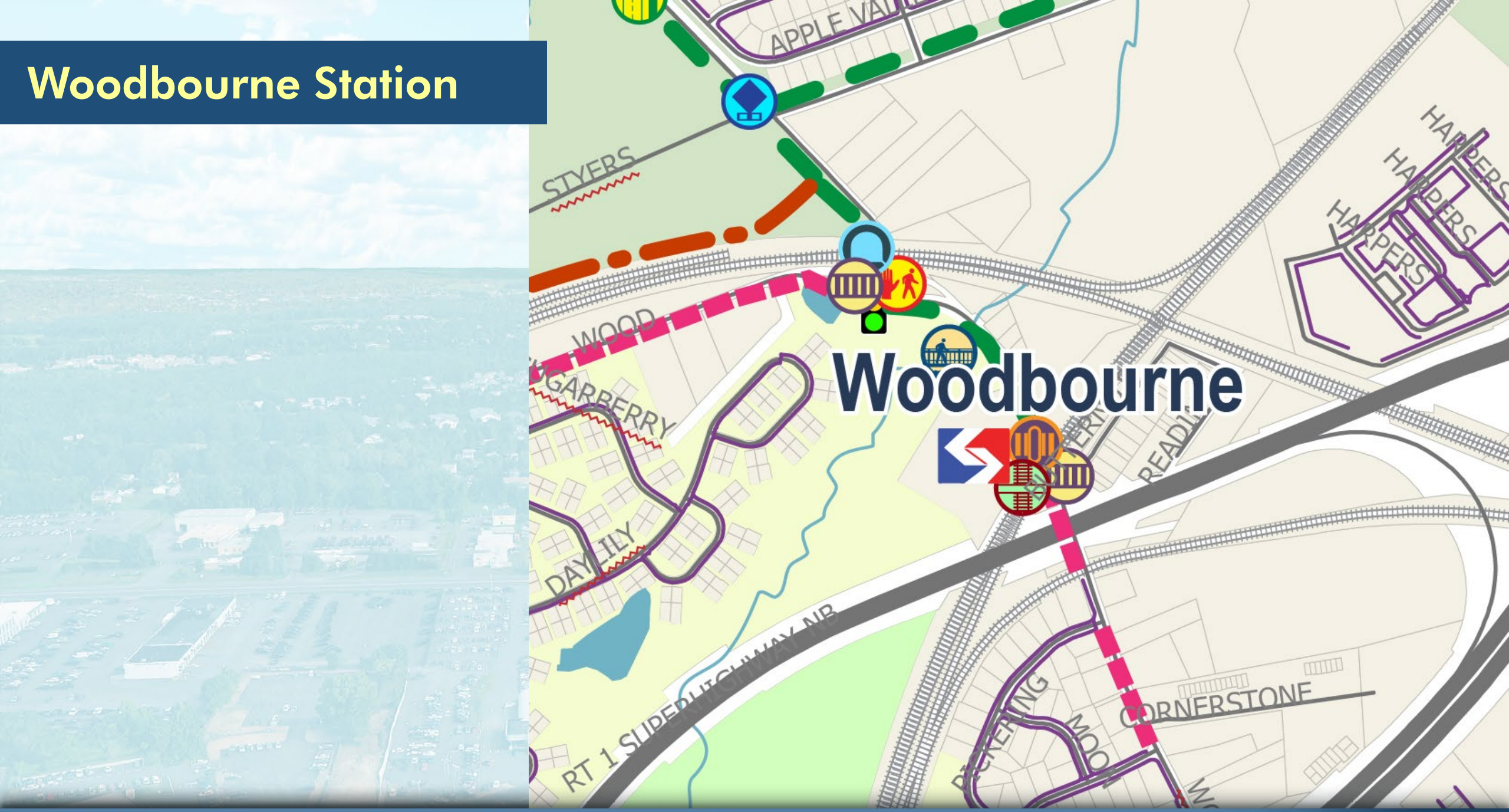


Multi–Use Trail



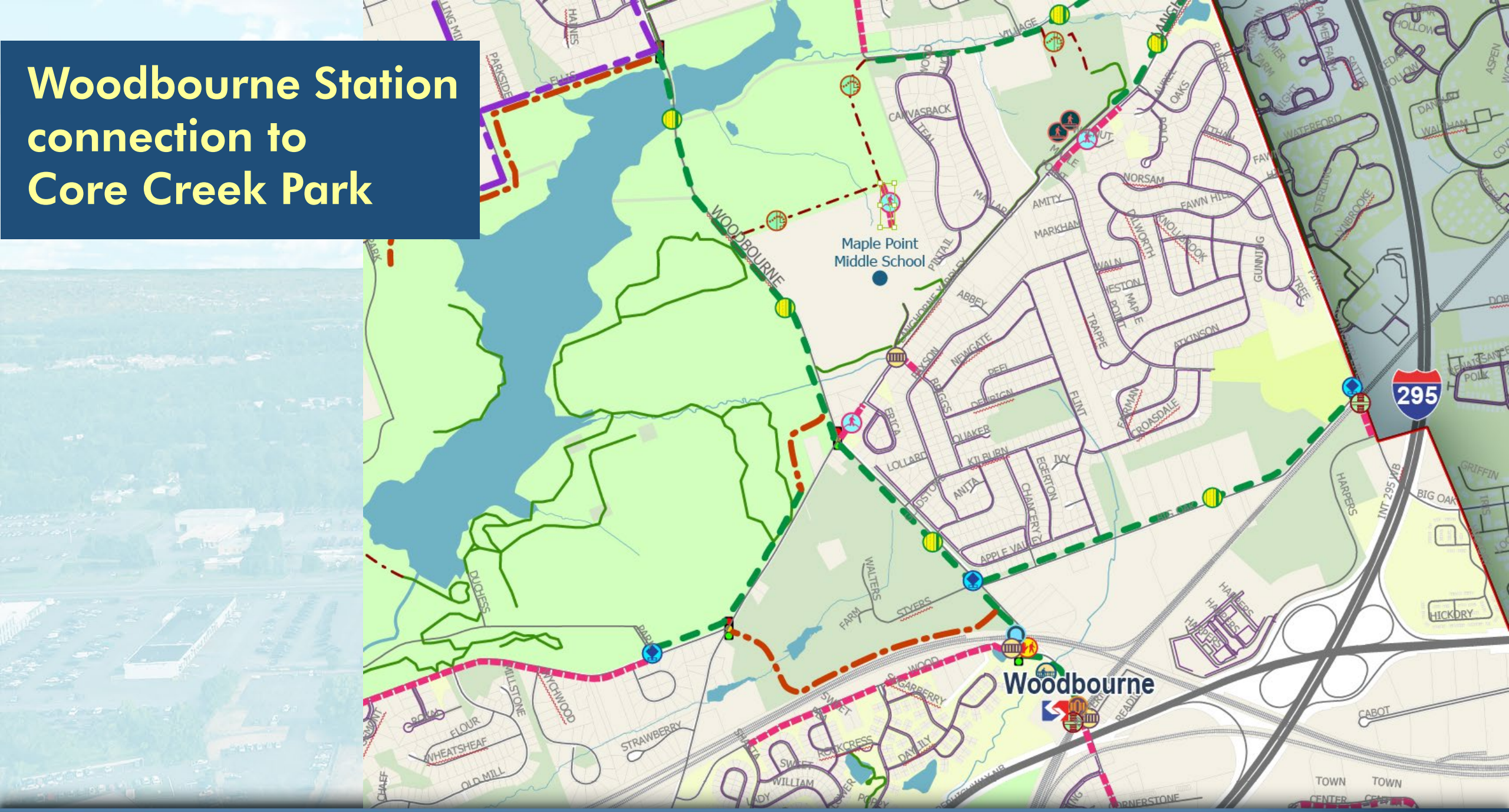
Middletown Community Park

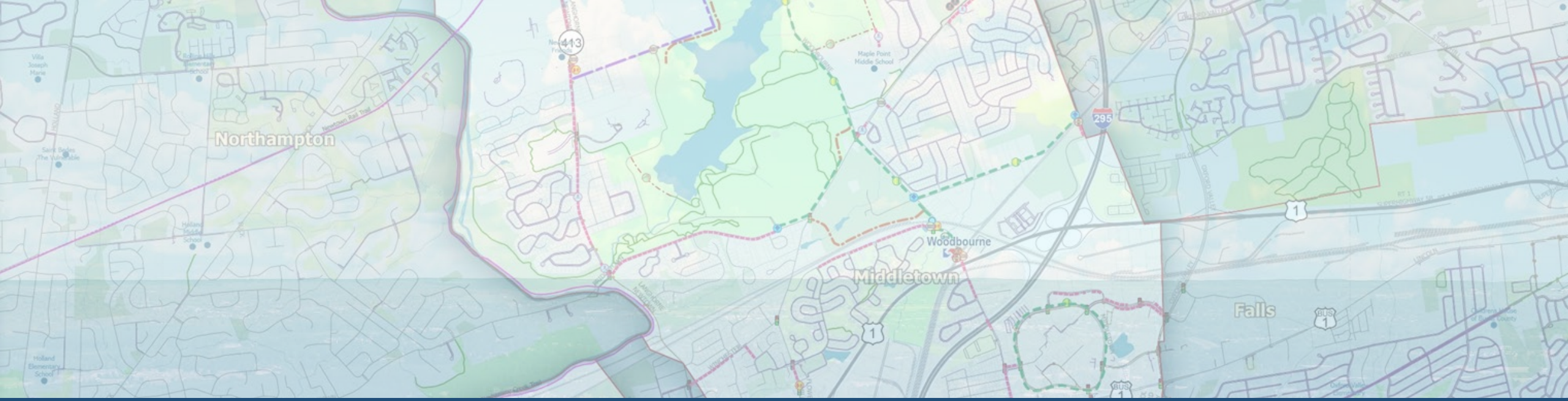
Woodbourne Station



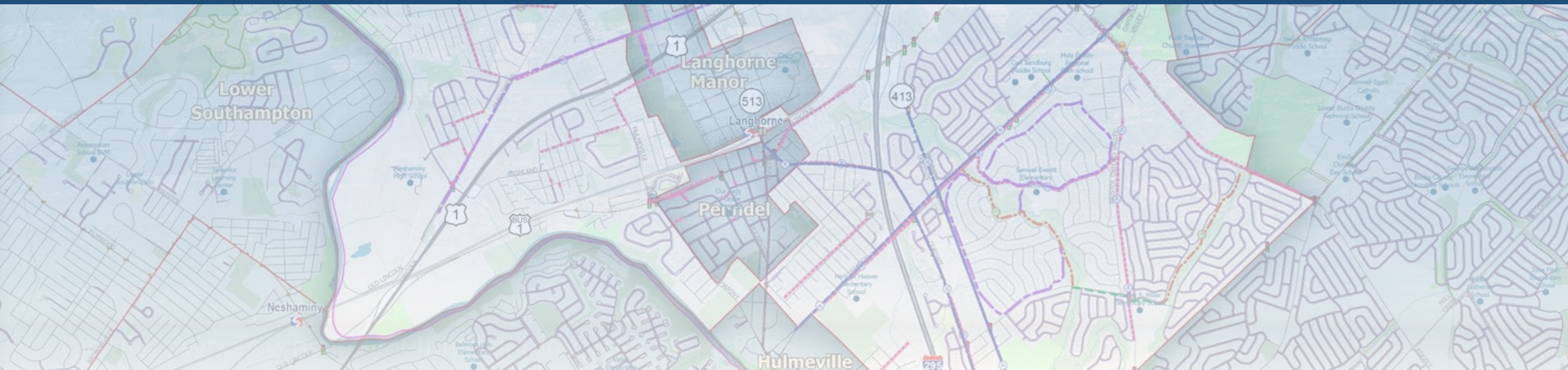
Woodbourne Station

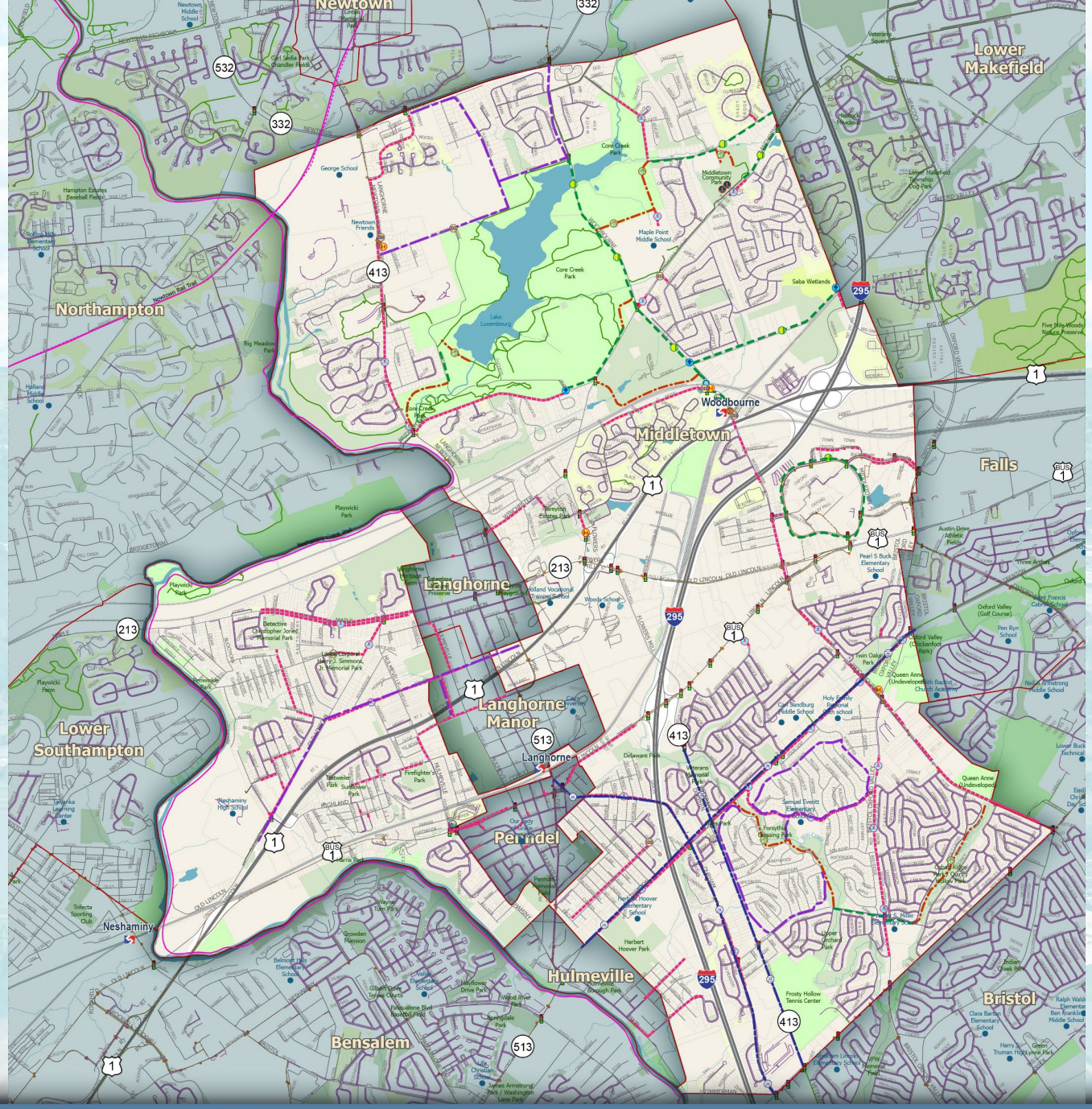
Woodbourne Station connection to Core Creek Park




Northampton
Middletown
Woodbourne
Falls

Discussion


Lower
Southampton
Langhorne
Manor
Langhorne
Penndel
Neshaminy
Hulmeville



Middletown Township Multimodal Improvement Plan

Next Steps

- Continue advertising the Public Opinion Survey and Wikimapping,
  with monitoring and tallying responses
- Complete the Key Person Interviews
- Meet with SEPTA and PennDOT
- Continue alternatives analysis and plan development
- **Steering Committee Meeting #3** August 29th - 4pm
  review Draft Improvements Plan

Thank you

William Collins, RLA, ASLA
wcollins@simonecollins.com

Geoff Creary, LA
gcreary@simonecollins.com

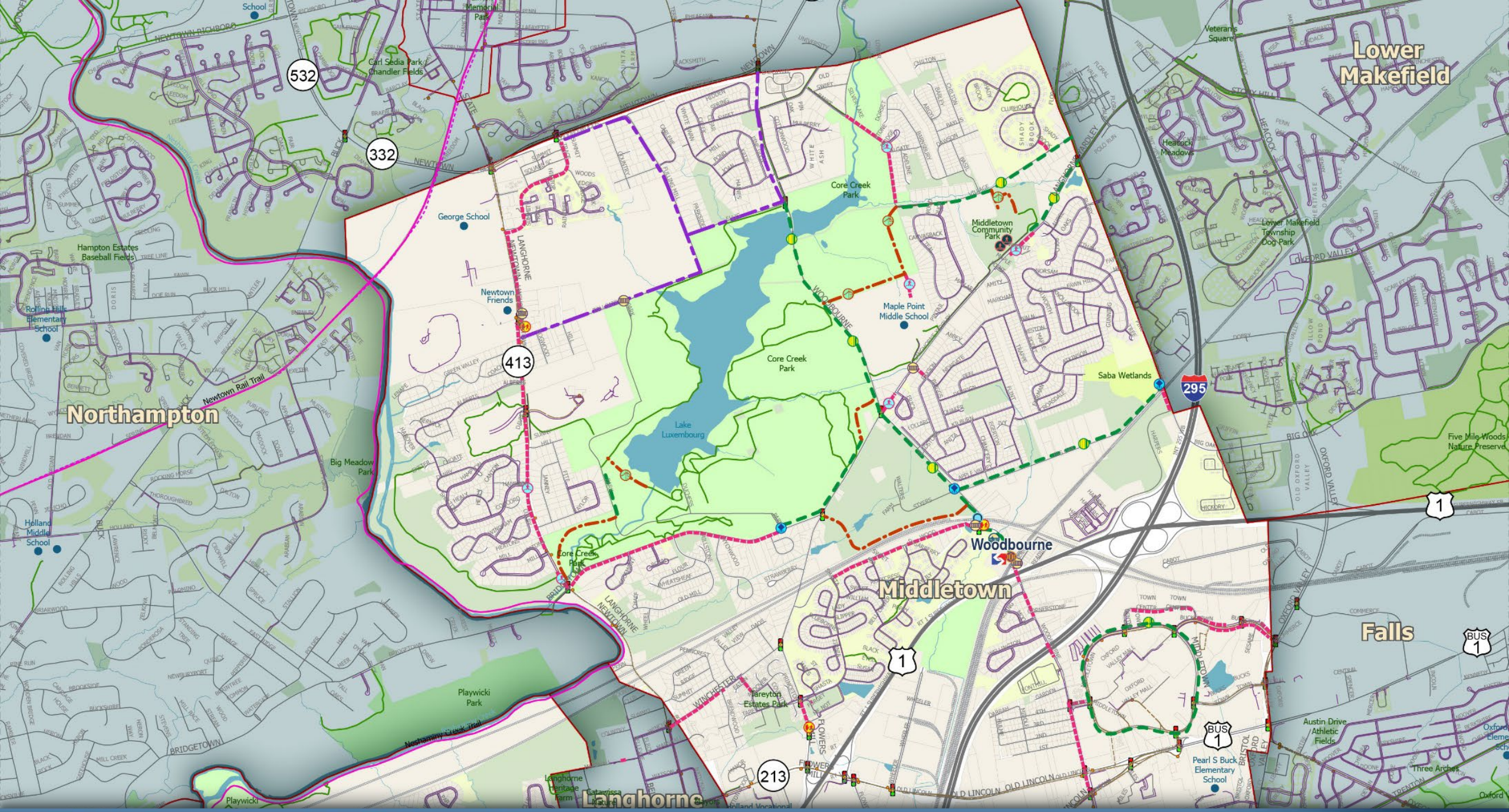
Anita Nardone, PE
anardone@simonecollins.com

Bryce Bruckner, Staff LA
bbrucker@simonecollins.com

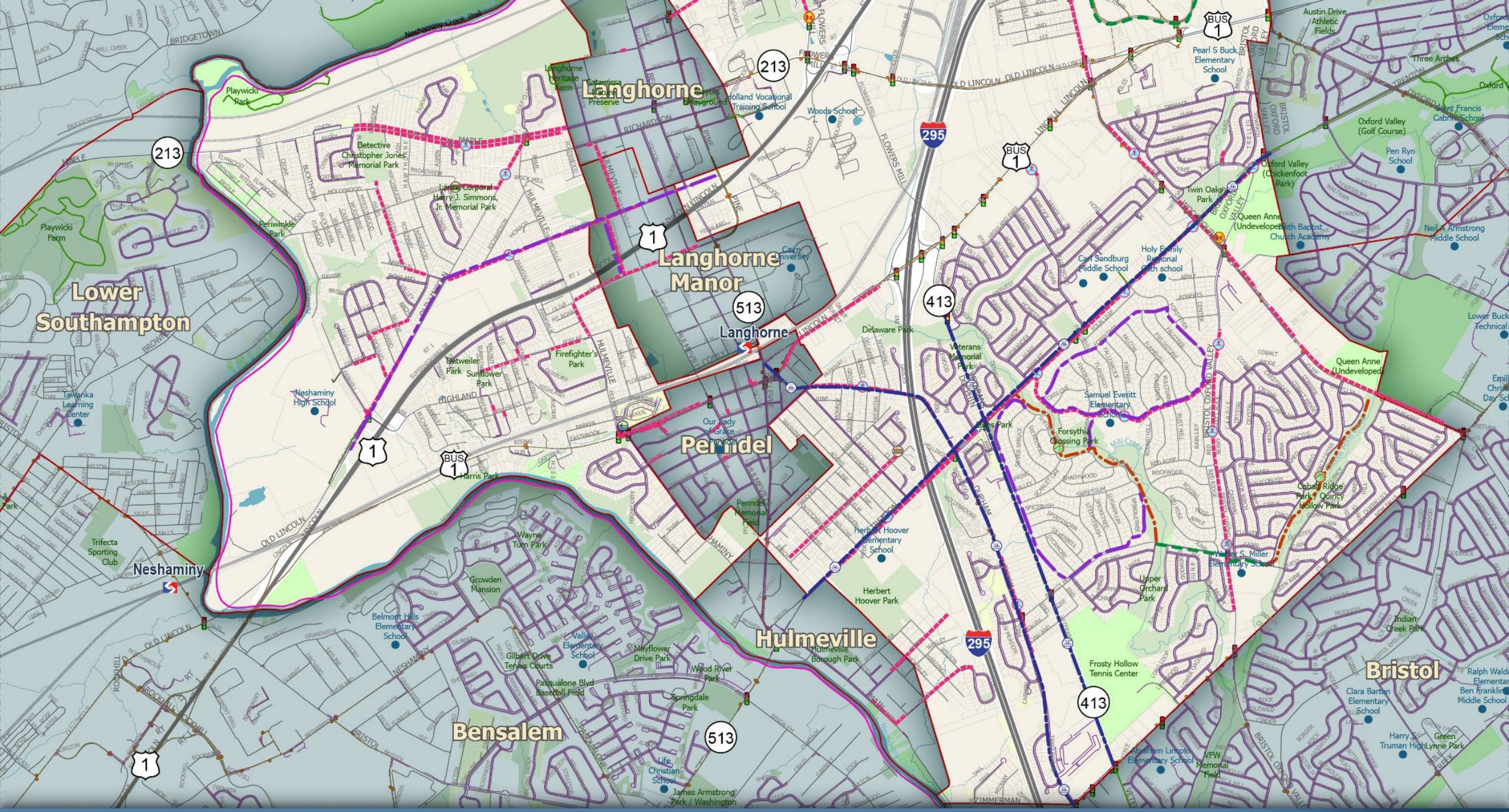
119 East Lafayette Street, Norristown, PA 19401
610-239-7601
www.simonecollins.com

Lori Ware, PE, PTOE
Chad Decker, PE, PTOE

Stephen Noll, Ex. Dir.
Ashley Sulon, Project Coord.



Middletown Township Multimodal Improvement Plan



Middletown Township Multimodal Improvement Plan