

**Recommendations Report** 

December 2023

#### Acknowledgments

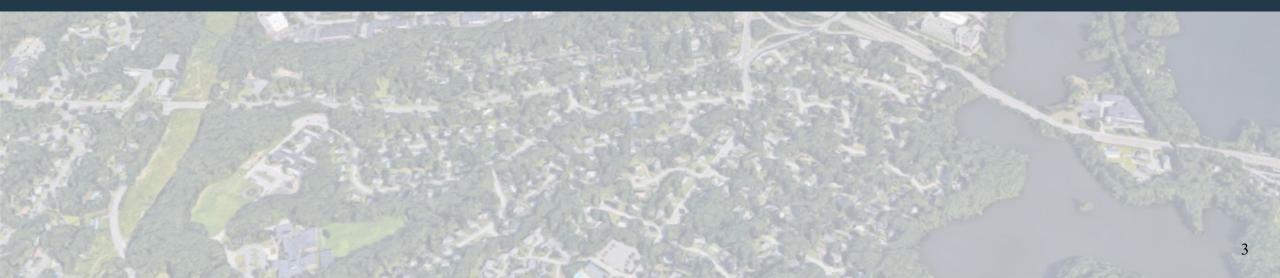
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## RECOMMENDATIONS



### Introduction

Bordering Framingham and Natick, the Golden Triangle is a local and regional destination, within an extensive collection of retail complexes and large-scale campuses. As development patterns continue to change in this region and uses transition from retail to residential, it is important to understand how non-motorists access, live, work, and play in this cardominated space. This study helps the Town of Natick and City of Framingham understand key multimodal obstacles and implementable improvements that can significantly improve the experience for those who walk, bike, or take transit within the study area.

The study proposes recommendations that prioritize accessible and safe pedestrian and bicycle facilities and infrastructure, with the ultimate goal of creating a connected and cohesive multimodal network within the Golden Triangle.

### Developing the Recommendations

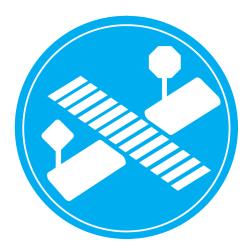
To develop a comprehensive list of varying improvements in strategic locations and incorporate the study goals into the fabric of the recommendations, the study team identified four types of recommendations, including Intersection Accessibility and Safety, Multimodal Roadway Safety, Roadway Transformation, and User Experience. The following section provides a summary of all recommendations organized by the improvement type categories.



Intersection Accessibility and Safety



Multimodal Roadway Safety



Roadway Transformation



**User Experience** 

## The Recommendations: Intersection Accessibility and Safety



The study proposes recommendations across the Golden Triangle that address critical infrastructural gaps at key intersections, including Route 30 and Speen Street, Speen Street and Hartford Street, and Shoppers World Drive and Flutie Pass. These recommendations propose new accessibility infrastructure that prioritize pedestrian safety and connectivity.

Recommendation ID	Name	Cost	Implementation Timeline
В.3	Speen Street & Hartford Street Intersection Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
B.4	Speen Street & Route 9 Formal Intersection	\$\$ (\$1M-\$5M)	Medium (1-3 years)
B.6	Superior Drive & Speen Street Southbound Pedestrian Accessibility Improvements	\$ (<\$1M)	Short (<1 year)
G.2	Golden Triangle Pedestrian Signal Assessment	\$ (<\$1M)	Short (<1 year)
SP.7	Route 9, Dean Road, & Natick Mall Road Intersection Improvements	\$\$\$ (>\$5M)	Medium (1-3 years)
SS.1	Nouvelle Way, Speen Street, & Wonderbread Spur Connectivity Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SS.2	Route 30 & Speen Street Intersection Realignment	\$\$\$ (>\$5M)	Medium (1-3 years)

## The Recommendations: Multimodal Roadway Safety



A key goal of the study includes identifying opportunities to leverage existing multimodal infrastructure and assets, such as the Cochituate Rail Trail and Natick Mall shared use path. In tandem with this, it was important to recognize the existing gaps in the multimodal network, including creating north-south connections between Natick and Framingham's neighborhoods to the Natick Mall and other commercial destinations.

Recommendation ID	Name	Cost	Implementation Timeline
B.2	Speen Street Bridge Multimodal Improvements	\$\$\$ (>\$5M)	Long (> 3 years)
B.5	Superior Drive & Cochituate Rail Trail Connection	\$\$ (\$1M-\$5M)	Medium (1-3 years)
R.1	Sidewalk & Crosswalk Connections between Route 126 and Speen Street	\$\$\$ (>\$5M)	Long (> 3 years)
R.2	Corridor Wide Protected Multimodal Facilities between Route 126 and Burr Street	\$\$\$ (>\$5M)	Long (> 3 years)
SP.1	Corridor Wide Protected Multimodal Facilities from Caldor Road to Natick Mall Road	\$\$\$ (>\$5M)	Long (> 3 years)
SP.4	Natick Mall Road Sidewalk Connections	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SP.5	Power Line Shared Use Path	\$\$\$ (>\$5M)	Long (> 3 years)

## The Recommendations: Roadway Transformation



Most roadways in the study area prioritize vehicular travel, leaving little space for those who walk, bike, and take transit. Through the "Roadway Transformation" recommendations, key roadways including Speen Street and Superior Drive will have the opportunity to reallocate portions of the road to non-motorists, creating a safe, dedicated, and protected path to connect Golden Triangle neighborhoods to the commercial hubs.

Recommendation ID	Name	Cost	Implementation Timeline
B.1	Speen Street Two-Way Conversion	\$ (<\$1M)	Short (<1 year)
<b>B.</b> 7	<b>Superior Drive Multimodal Shared Street Conversion</b>	\$\$\$ (>\$5M)	Medium (1-3 years)
SP.2	Travis Road Walking Path	\$\$\$ (>\$5M)	Long (> 3 years)
SP.3	Hardwick Road/Essex Road Walking Path	\$\$\$ (>\$5M)	Long (> 3 years)
SS.3	Speen Street Shared Use Path (between Route 30 & Nouvelle Way)	\$\$\$ (>\$5M)	Medium (1-3 years)
SS.4	Speen Street & Cochituate Rail Trail Connectivity	\$\$ (\$1M-\$5M)	Medium (1-3 years)

# The Recommendations: User Experience



The study proposes a set of recommendations that will create a vision for a welcoming and inclusive environment for those who walk, bike, and take transit within and around the Golden Triangle. This improvement category encompasses a range of solutions, including establishing a wayfinding system across the Golden Triangle, developing a north-south multimodal corridor on Shoppers World Drive, and creating a calm street network at Sherwood Plaza.

Recommendation ID	Name	Cost	Implementation Timeline
G.3	Golden Triangle Wayfinding Assessment	\$ (<\$1M)	Short (<1 year)
SP.6	Mercer Road, Strathmore Road, & Dean Road Multimodal Connectivity Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SW.1	Shopper's World Multimodal Network & Amenities	\$\$\$ (>\$5M)	Long (> 3 years)
SW.2	Flutie Pass Park & Ride, Mid-Block Crossing, & Sidewalk/Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SW. 3	Ring Road Shared Use Path	\$\$\$ (>\$5M)	Long (> 3 years)

### Defining the Recommendations

Each recommendation was developed with the intention of providing municipal, state, and private entities with the necessary resources and details to understand key responsibilities and successfully implement. The study provides detailed information on key implementation considerations, such as levels of effort, jurisdictional details, and implementation timelines.



What existing challenges do non-motorists face in this area?



What is the implementation timeline?

Short (<1 yr), Medium (1-3 yrs), Long (>3 yrs)



What does this look like and what does it consist of?



What does this cost?\* \$ (<\$1M), \$\$ (<\$1M-\$5M), \$\$\$ (>\$5M)



Who will benefit from this recommendation?



What level of effort is required to implement this and who would be involved?



What implementation & contextual challenges exist?



The study team developed a combination of improvements that enhance the experience for all non-motorists, through a series of phased recommendations ranging from short-term, tactical urbanism-style pavement markings to long-term protected shared-use paths.

## The Recommendations: Intersection Accessibility and Safety



The study proposes recommendations across the Golden Triangle that address critical infrastructural gaps at key intersections, including Route 30 and Speen Street, Speen Street and Hartford Street, and Shoppers World Drive and Flutie Pass. These recommendations propose new accessibility infrastructure that prioritize pedestrian safety and connectivity.

Recommendation ID	Name	Cost	Implementation Timeline
B.3	Speen Street & Hartford Street Intersection Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
B.4	Speen Street & Route 9 Formal Intersection	\$\$ (\$1M-\$5M)	Medium (1-3 years)
<b>B.</b> 6	Superior Drive & Speen Street Southbound Pedestrian Accessibility Improvements	\$ (<\$1M)	Short (<1 year)
G.2	Golden Triangle Pedestrian Signal Assessment	\$ (<\$1M)	Short (<1 year)
SP.7	Route 9, Dean Road, & Natick Mall Road Intersection Improvements	\$\$\$ (>\$5M)	Medium (1-3 years)
SS.1	Nouvelle Way, Speen Street, & Wonderbread Spur Connectivity Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SS.2	Route 30 & Speen Street Intersection Realignment	\$\$\$ (>\$5M)	Medium (1-3 years)

#### **Speen Street & Hartford St Intersection Improvements**



### What existing challenges do non-motorists face in this area?

There are currently 3 crosswalks and 8 vehicle lanes at the Hartford St/Speen St intersection. This creates an unwelcoming and unsafe environment for pedestrians. There are too many vehicle-pedestrian conflict points and traffic lanes.



### What does this look like and what does it consist of?

Improve the Hartford St/Speen St/Route 9 intersection by repainting crosswalks, adding pedestrian refuge islands to, and implementing pedestrian signalization at all crossings. Consider adding a new east-west crossing on the northern side of the intersection crossing Speen St to the existing eastern sidewalk on Speen St NB. Consider closing off the Speen St SB slip lane/right turn lane (RT) at the intersection, making one of the Speen St SB travel lanes a Thru/RT lane. Use the closed slip lane to add a large, permanent curb extension with appropriate pedestrian signalization, curb ramps, warning panels, and potential landscaping.



#### Who will benefit from this recommendation?

This intersection sits adjacent to a large neighborhood south of Sherwood Plaza. Improving this intersection, will create a safer and more welcoming environment for those residents and all other pedestrians traveling in the Golden Triangle.



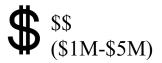
## What implementation & contextual challenges exist?

No jurisdictional, historical, or environmental challenges known. Potential challenge if bridge must be closed due to construction.



## What level of effort is required to implement this and who would be involved?

This portion of Speen Street falls under the jurisdiction of MassDOT, however the Town of Natick should be involved in conversations given the recent sidewalk improvements at the Fire Department.





### **Speen Street & Hartford St Intersection Improvements**

### A

#### The Existing Challenges

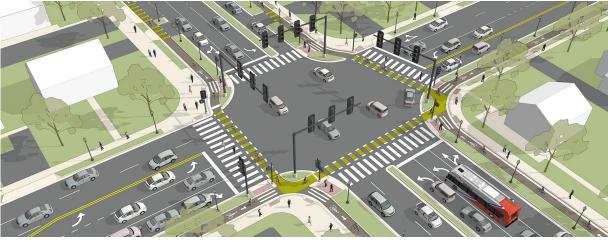


The Current Hartford St/Speen St Intersection Configuration (crossings highlighted in red)



The Current Conditions of the Hartford St/Speen St intersection





Complete Streets Intersection



Complete Streets Intersection City of Sacramento, CA

#### **Speen St & Route 9 Formal Intersection**



### What existing challenges do non-motorists face in this area?

The current pedestrian infrastructure along Speen St going SB is discontinuous and deteriorating. There is a guardrail that currently blocks the shared use path from connecting over the Speen Street bridge to the existing sidewalk. This route experiences heavy vehicle traffic and the sidewalk is not protected to keep pedestrians safe.



### What does this look like and what does it consist of?

Create a perpendicular intersection on Speen St SB at the on-ramp to Route 9 access road and create a formal pedestrian crossing, connecting the Natick Mall shared use path to the Speen St bridge sidewalk. Consider removing the existing guardrail from the shared use path and create a sidewalk connection from Speen St to Superior Dr with a protective barrier.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian network in the Golden Triangle, benefitting all residents, shoppers, employees, and visitors in the area.



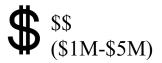
## What implementation & contextual challenges exist?

No jurisdiction, historical, or environmental challenges known. Potential challenge if bridge must be closed due to construction.



### What level of effort is required to implement this and who would be involved?

This portion of Speen Street falls under the jurisdiction of MassDOT, however the Town of Natick and Natick Mall should be involved in conversations to connect to the Natick Mall Shared Use Path.

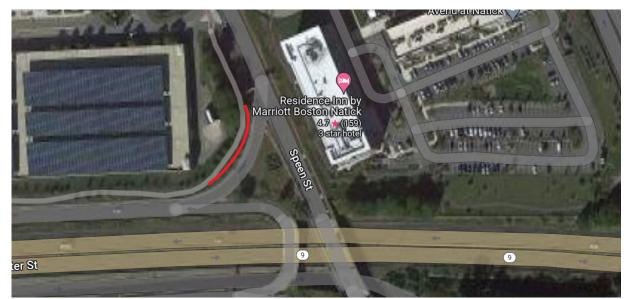




### **Speen St & Route 9 Formal Intersection**

## 1

#### **The Existing Challenges**



The Current Route 9/Speen St Intersection- Guardrail (highlighted in red)



The Current Route 9/Speen St Intersection- guardrail blocking sidewalk connection to shared use path





Complete Streets Intersection Complete Streets Intersection
National Association of City Transportation San Luis Obispo, CA

#### Superior Drive & Speen Street Southbound Pedestrian Accessibility Improvements



## What existing challenges do non-motorists face in this area?

The pedestrian infrastructure is lacking along Superior Dr and Speen St in the Beetleback, creating an unsafe and unwelcoming environment for pedestrians.



## What implementation & contextual challenges exist?

No jurisdiction, historical, or environmental challenges known. Potential challenge if bridge must be closed due to construction.



### What does this look like and what does it consist of?

Implement a new east-west crossing at the Superior Dr and Speen St intersection. Add in HAWK signals, new ADA-compliant curb ramps, curb extensions, and repaint existing crosswalks.



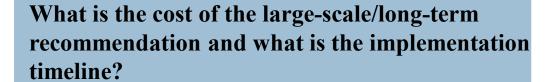
## What level of effort is required to implement this and who would be involved?

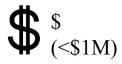
This portion of Speen Street falls under the jurisdiction of MassDOT, however the Town of Natick should be involved in conversations to connect to the Natick Mall Shared Use Path.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian and bicycle network in the Golden Triangle, benefitting Cochituate Rail Trail travelers, all active transportation travelers in the area, and all shoppers in the Golden Triangle.







#### Superior Drive & Speen Street Southbound Pedestrian Accessibility Improvements

### A

#### The Existing Challenges





The Current Conditions along Speen Street and Superior Drive – sidewalks abruptly end and no dedicated bicycle facility exists.





HAWK Signals Arizona Department of Transportation



HAWK Signalization & Protected Sidewalk Kirkwood, MO

### **G.2**

### Golden Triangle Pedestrian Signal Assessment



### What existing challenges do non-motorists face in this area?

There are currently pedestrian signals missing at various pedestrian crossings in the Golden Triangle.



## What implementation & contextual challenges exist?

There is opportunity to prioritize this assessment and implement improved pedestrian signals within the Golden Triangle to create a safe and accessible walking experience for non-motorists.



### What does this look like and what does it consist of?

Conduct a detailed survey/assessment of all existing traffic and pedestrian signals within the study area/Golden Triangle, to understand functionality, infrastructure condition, and replacement needs.



## What level of effort is required to implement this and who would be involved?

Low effort - planning-level study based on jurisdiction



#### Who will benefit from this recommendation?

This recommendation will improve the safety and experience for all pedestrian travelers in the Golden Triangle.





### **G.2**

### Golden Triangle Pedestrian Signal Assessment

### A

#### **The Existing Challenges**

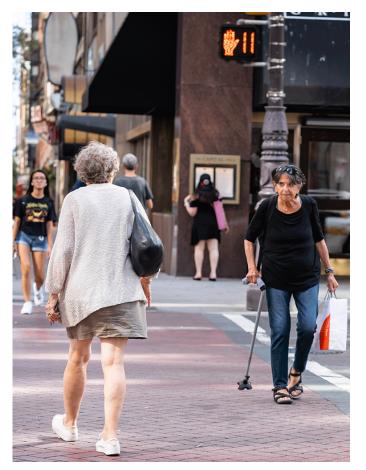


Missing Pedestrian Signal at the Route and Dean Road Intersection

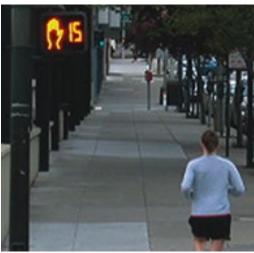


Missing Pedestrian Signals at the Route 9 and Sherwood Plaza Entrance





Pedestrian Signal Federal Highway Administration





Pedestrian Signaling at Intersection

### **SP.7**

#### Route 9 & Dean Road & Natick Mall Road Intersections Improvements



### What existing challenges do non-motorists face in this area?

The current intersection has limited pedestrian infrastructure and no bicycle infrastructure. The crossings are extremely long and there are no pedestrian refuge islands. There are missing pedestrian crossing signals and crosswalks are faded.



### What does this look like and what does it consist of?

Convert this intersection into a pedestrian and bicyclist haven by repainting all crosswalks, adding a new north-south crossing along the western side of the intersection, ensure all signals have a pedestrian cycle, and add a pedestrian island at both north-south crossings. Consider removing the right turn lanes on Natick Mall Road (going westbound on Route 9) and Dean Road (going eastbound on Route 9) and implement permanent curb extensions at all intersection crossings with ADA-compliant curb ramps. Create a pedestrian and bicycle connection between Dean Rd and Mercer Rd by building a shared use path on the western side of Dean Rd. Add directional signage and pavement markings for cyclists.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian and bicycle network in the Golden Triangle, creating a stronger and safer pedestrian connection between Shoppers World Plaza and Natick Mall.



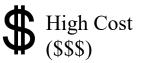
## What implementation & contextual challenges exist?

No historical or environmental concerns in this area.



## What level of effort is required to implement this and who would be involved?

Route 9 is owned by MassDOT. Certain segments of Natick Mall Rd are privately owned, and Dean Road falls under public jurisdiction.





### **SP.7**

#### Route 9 & Dean Road & Natick Mall Road Intersections Improvements

### A

#### The Existing Challenges







The Existing Conditions at the Route 9/Dean Road/Natick Mall Road Intersection-long crosswalks and missing pedestrian signal



The Proposed Improvements to create a safe and pedestrian/cyclist-oriented intersection at Route 9/Dean Road/Natick Mall Road.

### **SS.1**

#### Nouvelle Way, Speen Street & Wonderbread Spur Connectivity Improvements



## What existing challenges do non-motorists face in this area?

The Cochituate Rail Trail currently ends at the Speen St/Nouvelle Way intersection and does not connect to the shared use path across the street, along Speen St and down Nouvelle Way.



## What implementation & contextual challenges exist?

Coordination will be required to understand the impacts and changes that will occur with incoming development at the Natick Mall.



### What does this look like and what does it consist of?

Consider realigning the intersection of Speen Street/Nouvelle Way/CRT Wonderbread Spur to create more pedestrian and bike friendly crossings. Repaint all crosswalks, add curb extensions, consider adding a new crosswalk at the northern point of the intersection going east-west, consider adding pedestrian islands, and improve pedestrian signaling at all crossings. Implement a wayfinding system for the CRT/Wonderbread Spur to create a smoother transition from the Wonderbread Spur to the Natick Mall/Nouvelle Way shared use path. Improve the bicycle network by adding a NACTO- compliant diagonal bicycle lane from the Rail Trail to the Nouvelle Way trail.



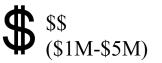
#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian and bicycle network in the Golden Triangle, benefitting Cochituate Rail Trail travelers, all active transportation travelers in the area, and all shoppers in the Golden Triangle



## What level of effort is required to implement this and who would be involved?

Coordination with private parcel owners, MassDOT District 3, and the Town of Natick will be required, given jurisdictional considerations of each intersecting roadway.





### Nouvelle Way, Speen Street & Wonderbread Spur Connectivity Improvements



#### The Existing Challenges



The Current End of the Cochituate Rail Trail at the Speen Street and Nouvelle Way Intersection



The Current Start of the Shared Use Path at Nouvelle Way



The Current Start Conditions at the Speen St & Nouvelle Way Intersection



The Proposed Improvements to create a safe and pedestrian/cyclist-oriented intersection at Speen Street and Nouvelle Way.

### SS.2

### Route 30 & Speen Street Intersection Realignment



## What existing challenges do non-motorists face in this area?

This intersection experiences heavy vehicle and pedestrian traffic with minimal pedestrian safety infrastructure, which creates an unsafe and unwelcoming environment for active transportation travelers.



### What does this look like and what does it consist of?

Alongside the R.1 recommendations, which improve pedestrian infrastructure, create permanent "multimodal idle zones" at each intersection corner with a combination of pavement markings, planters, or curb bump outs, ADA-compliant curb ramps, and detectable warning panels. Consider exclusive pedestrian signalization for certain pedestrian movements, protect right hand turns, repaint all crosswalks, and add curb bump outs.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian network in the Golden Triangle, benefitting Cochituate Rail Trail travelers, all active transportation travelers in the area, and all shoppers in the Golden Triangle. The proposed multimodal idle zones should be dedicated and protected spaces for vulnerable users to safely wait to cross the road as well as provide a clear line of sight for users to be visible to fast-moving vehicles.



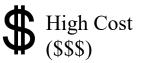
## What implementation & contextual challenges exist?

This improvement may coincide with multiple state registered hazardous waste sites and will need coordination between both communities and potentially MassDOT District 3.



## What level of effort is required to implement this and who would be involved?

Route 30 is municipally owned and managed by the City of Framingham and Town of Natick (respectively)





### Route 30 & Speen Street Intersection Realignment

### The Existing Challenges





The Current Route 30/Speen St Intersection





Complete Streets, City of Sacramento



Curb Bump Out Design, Sustainable Technologies Evaluation Program

## The Recommendations: Multimodal Roadway Safety



A key goal of the study includes identifying opportunities to leverage existing multimodal infrastructure and assets, such as the Cochituate Rail Trail and Natick Mall shared use path. In tandem with this, it was important to recognize the existing gaps in the multimodal network, including creating north-south connections between Natick and Framingham's neighborhoods to the Natick Mall and other commercial destinations.

Recommendation ID	Name	Cost	Implementation Timeline
B.2	Speen Street Bridge Multimodal Improvements	\$\$\$ (>\$5M)	Long (> 3 years)
B.5	Superior Drive & Cochituate Rail Trail Connection	\$\$ (\$1M-\$5M)	Medium (1-3 years)
R.1	Sidewalk & Crosswalk Connections between Route 126 and Speen Street	\$\$\$ (>\$5M)	Long (> 3 years)
R.2	Corridor Wide Protected Multimodal Facilities between Route 126 and Burr Street	\$\$\$ (>\$5M)	Long (> 3 years)
SP.1	Corridor Wide Protected Multimodal Facilities from Caldor Road to Natick Mall Road	\$\$\$ (>\$5M)	Long (> 3 years)
SP.4	Natick Mall Road Sidewalk Connections	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SP.5	Power Line Shared Use Path	\$\$\$ (>\$5M)	Long (> 3 years)

### Speen Street Bridge Multimodal Improvements



#### What existing challenges do non-motorists face in this area?

There are limited pedestrian facilities, which are narrow and in deteriorating conditions. Cyclists on this portion of Speen Street are not protected from vehicular traffic and must ride within the ROW.



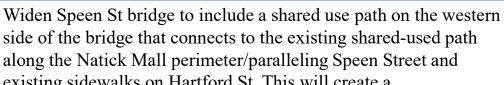
#### What implementation & contextual challenges exist?

No jurisdiction, historical, or environmental challenges known. Potential challenge if bridge must be closed due to construction.



#### What does this look like and what does it consist of?

side of the bridge that connects to the existing shared-used path along the Natick Mall perimeter/paralleling Speen Street and existing sidewalks on Hartford St. This will create a pedestrian/bicycle connection form Golden Triangle area to the residences south of Route 9.





#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian and bicycle network in the Golden Triangle, benefitting the residents living behind Sherwood Plaza, all Cochituate Rail Trail travelers, all pedestrians and cyclists in the area, and all shoppers in the Golden Triangle.



#### What level of effort is required to implement this and who would be involved?

This portion of Speen Street falls under MassDOT's jurisdiction, and will therefore require coordination between District 3 and the Town of Natick.





### **Speen Street Bridge Multimodal Improvements**



#### **The Existing Challenges**



The current sidewalk and walking conditions along the Speen St Bridge







Protected Shared Use Path along Whittier Bridge in Amesbury, MA (Source: MassDOT)



 $Dedicated\ Bicycle\ Lane\ and\ Protected\ Sidewalk\ along\ Long fellow\ Bridge\ in\ Boston,\ MA$ 

#### **Superior Drive & Cochituate Rail Trail Connection**



### What existing challenges do non-motorists face in this area?

There is currently limited pedestrian infrastructure and no bicycle infrastructure along Superior Drive. There is an opportunity to connect Superior Drive to the Cochituate Rail Trail, which will improve the accessibility for active transportation travelers in the Golden Triangle.



## What does this look like and what does it consist of?

Implement sidewalks along Superior Drive and directional wayfinding signage to create a clear pedestrian connection between the Cochituate Rail Trail and the Natick Mall.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian and bicycle network in the Golden Triangle, benefitting Cochituate Rail Trail travelers, all active transportation travelers in the area, and all shoppers in the Golden Triangle.



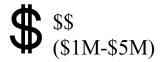
## What implementation & contextual challenges exist?

No historical or environmental challenges known. Potential challenge if bridge must be closed due to construction.



## What level of effort is required to implement this and who would be involved?

Superior Drive within the Beetleback falls under the jurisdiction of the Town of Natick, however Superior Drive east of Speen Street northbound falls under private jurisdiction. Coordination will need to be required with the MathWorks campus to implement.





#### **Superior Drive & Cochituate Rail Trail Connection**

## A

#### **The Existing Challenges**







The Current Conditions along Superior Drive to the Cochituate Rail Trail







Pedestrian and Cyclist connection, pavement markings, and wayfinding signage

### **R.1**

#### Sidewalk & Crosswalk Connections between Route 126 and Speen Street



## What existing challenges do non-motorists face in this area?

The sidewalk along Route 30 is deteriorating, it disconnects at certain locations, and there are dozens of driveways, which create vehicle-pedestrian conflict points. The lack of pedestrian safety along this route creates an unwelcoming and unsafe environment for active transportation travelers.



## What does this look like and what does it consist of?

Create a strong pedestrian connection along Route 30 by repainting all crosswalks, adding pedestrian phasing at all traffic signals, upgrading all existing curb ramps, adding pedestrian crossing signage, and adding curb extensions where needed. Consider removing select driveways along Route 30 to create a more continuous sidewalk network and adding pedestrian refuge islands at all intersections.



#### Who will benefit from this recommendation?

This improvement benefits all pedestrian travelers along Route 30, creating a better pedestrian connection between the Natick Mall, Shoppers World Plaza, and Sherwood Plaza.



## What implementation & contextual challenges exist?

This improvement may coincide with multiple state registered hazardous waste sites.



## What level of effort is required to implement this and who would be involved?

Route 30 falls under the jurisdiction of City of Framingham in this region (until the Town Boundary of Natick at the Speen Street intersection).



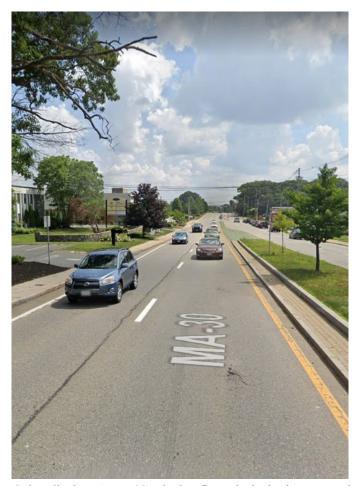


### **R.1**

### Sidewalk & Crosswalk Connections between Route 126 and Speen Street

### A

#### The Existing Challenges





Sidewalk along Route 30, which reflects the lack of protective barriers for vulnerable users and deteriorating conditions





Protected Sidewalk - Rural Design Guide/Small Town & Rural Multimodal Networks (FHWA)



Protected Sidewalk along Major Roadway (NYC DOT)

### **R.2**

#### Corridor Wide Protected Multimodal Facilities between Route 126 and Burr Street



### What existing challenges do non-motorists face in this area?

Route 30 currently prioritizes high-speed vehicular traffic, leaving little room for safe and accessible infrastructure for those who walk, bike, or take transit.



## What implementation & contextual challenges exist?

This improvement may coincide with multiple state registered hazardous waste sites.



## What does this look like and what does it consist of?

Implement a dedicated and protected bicycle lane along the southern side of Route 30. Do this by adding attenuation barriers or flexible delineator posts to the roadway and consider adding a tree-lined street buffer. Consider making the bicycle lane a two-way shared use path.



## What level of effort is required to implement this and who would be involved?

Route 30 falls under the jurisdiction of City of Framingham in this region.



#### Who will benefit from this recommendation?

This improvement benefits all pedestrians and cyclists, creating protected and dedicated multimodal facilities along this portion of Route 30.





#### Corridor Wide Protected Multimodal Facilities between Route 126 and Burr Street

### The Existing Challenges





The Current Conditions of Route 30, which reflects the lack of protected and dedicated bicycle facilities





Two-Way Separated Bicycle Lane along Major Roadway, Street Design Manual



Two-Way Separated Bicycle Lane Boston, MA



Two-Way Separated Bicycle Lane San Francisco, CA

### **SP.1**

#### Corridor Wide Protected Multimodal Facilities from Caldor Road to Natick Mall Road



### What existing challenges do non-motorists face in this area?

Route 9 currently prioritizes high-speed vehicular traffic, leaving little room for safe and accessible infrastructure for those who walk, bike, or take transit. This portion of Route 9 would benefit from a connected pedestrian and bicycle network to create safe connections.



### What does this look like and what does it consist of?

Create a safer pedestrian and bicycle network along Route 9 from Caldor Rd to Natick Mall Rd by removing potholes, evening surfaces, adding directional wayfinding signage, adding curb extensions, and adding protective jersey barriers or guardrails along the sidewalk. Consider removing the existing roadway median to improve sidewalk infrastructure and to create room for a two-way separated bicycle lane with a protective buffer.



#### Who will benefit from this recommendation?

This improvement will benefit all pedestrians and bicyclists in the Golden Triangle. This improvement will also benefit the new developments along Route 9, creating a more welcoming and connected network for vulnerable users.



## What implementation & contextual challenges exist?

This improvement is near a DEP Wooded Swamp and FEMA flood zone, which may require an NOI filing with local conservation commissions, depending on its limits of work.



## What level of effort is required to implement this and who would be involved?

Route 9 falls under MassDOT's jurisdiction in this area. Coordinate with DDR MDT Shopper's Worls LLC, owner of parcels 1391 Worcester Street and 1459 Worcester Street to discuss opportunities to reconstruct sidewalks along this portion of Route 9.





### **SP.1**

#### Corridor Wide Protected Multimodal Facilities from Caldor Road to Natick Mall Road

### The Existing Challenges



The Current Conditions Along Route 9 between Caldor Rd and Natick Mall Rd



FEMA 100-year Floodplain and Wetland Zone–1% Annual Chance Flood region (highlighted in blue) and Wetland (highlight in striped green) in Natick, MA.



#### **The Opportunities**



Separated Bicycle Lanes for Fall River (Source: MassDOT)



Dedicated Bicycle Lane with Bicycle-crossing Intersection Treatments Albuquerque, NM

36

#### **Natick Mall Road Sidewalk Connections**



### What existing challenges do non-motorists face in this area?

The current sidewalk along Natick Mall Road between Nouvelle Way and Route 9 is deteriorating, disconnects at certain locations, and is not up to ADA standards.



# What does this look like and what does it consist of?

Build a sidewalk along the western side of Natick Mall Rd between Route 9 and the Natick Mall rotary, by implementing attenuation barriers, flexible delineator posts, and/or cones/striping. Alongside the sidewalk, reallocate space for a shared use path with two bidirectional travel lanes from the Natick Mall Rd rotary to Natick Mall/1361 Worcester St entrance. Consider adding raised crossings at the two entries/exits from 1361 Worcester Street and removing the existing median between 1361 Worcester Street/Natick Mall entrance and Route 9 to widen the pedestrian and bicycle paths.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian and bicycle network in the Golden Triangle, specifically benefiting all visitors, residents, shoppers, employees, and businesses along Route 9 and Natick Mall Rd.



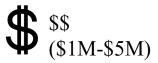
# What implementation & contextual challenges exist?

This improvement is near a Department of Environmental Protection (DEP) Wooded Swamp and Federal Emergency Management Agency (FEMA) flood zone, which may require an NOI filing with local conservation commissions, depending on its limits of work.



# What level of effort is required to implement this and who would be involved?

Coordinate with Federated Department Stores owner of parcel 1235 Worcester Street, to discuss opportunities for a formal sidewalk on Natick Mall Road between the Natick Mall Rotary and Route 9.





#### **Natick Mall Road Sidewalk Connections**

### A

#### The Existing Challenges





The Current Conditions along Natick Mall Road illustrating the lack of pedestrian-oriented infrastructure, signage, lighting, and facilities.





Dedicated Bike Lane and Sidewalk along Roadway: Small Town and Rural Design Guide



Shared Use Path West Chester, Ohio

#### **Power Line Shared Use Path**



### What existing challenges do non-motorists face in this area?

Other than major roadways that prioritize vehicular modes, no formalized connection exists between Natick's neighborhoods south of Sherwood Plaza that provides a safe, accessible, and welcoming experience for those who walk or bike.



### What does this look like and what does it consist of?

Consider implementing a formal, paved, shared-use path behind Strathmore Road where the existing powerline runs. This path would connect Mercer Rd to Hardwick Rd, Travis Rd, and Hartford St, and would be a paved path and/or boardwalk for pedestrians and bikers with adequate lighting, benches, shaded area, bike racks, and any other street furniture necessary.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian and bicycle network in the Golden Triangle and all residents in neighborhood south of Sherwood Plaza.



# What implementation & contextual challenges exist?

This improvement is near a DEP Wooded Swamp and FEMA flood zone, which may require an NOI filing with local conservation commissions, depending on its limits of work.



# What level of effort is required to implement this and who would be involved?

Coordinate with Boston Edison Company (Doing Business As Eversource Energy), the owner of parcels at 0 Essex Road End, 111 Hartford Street, and 108 Hartford Street to discuss opportunities for utilizing open space under the existing power lines for future shared-use paths or multimodal facilities.

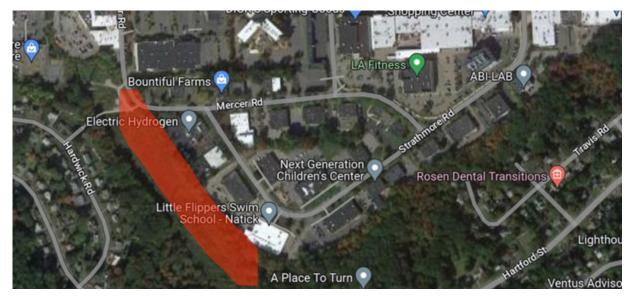




#### **Power Line Shared Use Path**

# A

#### **The Existing Challenges**



Current Power Line Easement between Sherwood Plaza (highlighted in red) & neighborhoods south of Sherwood Plaza



FEMA 100-year Floodplain and Wetland Zone–1% Annual Chance Flood region (highlighted in blue) and Wetland (highlight in striped green) in Natick, MA.





Shared Use Path/Boardwalk in Salisbury. MA



Shared Use Path/Boardwalk in Charlottesville, VA

# The Recommendations: Roadway Transformation



Most roadways in the study area prioritize vehicular travel, leaving little space for those who walk, bike, and take transit. Through the "Roadway Transformation" recommendations, key roadways including Speen Street and Superior Drive will allow for reallocation of the road to non-motorists, creating a safe, dedicated, and protected path to connect Golden Triangle neighborhoods to the commercial hubs.

Recommendation ID	Name	Cost	Implementation Timeline
B.1	Speen Street Two-Way Conversion	\$ (<\$1M)	Short (<1 year)
<b>B.</b> 7	<b>Superior Drive Multimodal Shared Street Conversion</b>	\$\$\$ (>\$5M)	Medium (1-3 years)
SP.2	Travis Road Walking Path	\$\$\$ (>\$5M)	Long (> 3 years)
SP.3	Hardwick Road/Essex Road Walking Path	\$\$\$ (>\$5M)	Long (> 3 years)
SS.3	Speen Street Shared Use Path (between Route 30 & Nouvelle Way)	\$\$\$ (>\$5M)	Medium (1-3 years)
SS.4	Speen Street & Cochituate Rail Trail Connectivity	\$\$ (\$1M-\$5M)	Medium (1-3 years)

#### **Speen Street Two-Way Conversion Assessment**



### What existing challenges do non-motorists face in this area?

There is currently heavy traffic congestion on Speen St and Superior Dr (the Beetleback region), especially during weekday and weekend peak hours.



# What implementation & contextual challenges exist?

There are no environmental, historic, or jurisdictional challenges known.



# What does this look like and what does it consist of?

Perform a traffic impact study to evaluate transforming Speen Street into a two-way street between Nouvelle Way and Hartford St, and the impacts it would have to vehicular circulation and traffic. If Speen Street became a two-way roadway, this would eliminate the need for the Beetleback, which could open space up for pedestrians/bicyclists. Given the impacts to vehicular circulation, potential queuing, and delay, this recommendation favors multimodal users. The preferred approach is to transition the northbound side of Speen Street to two-way, which will need to be studied in greater detail to understand the impacts to realignment with Route 9.



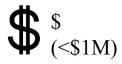
#### Who will benefit from this recommendation?

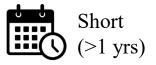
This recommendation will improve the vehicular network in the Golden Triangle, creating a less circuitous vehicular experience for those driving through the area, and those wishing to reach Natick Mall or the various shopping complexes along Speen Street.



# What level of effort is required to implement this and who would be involved?

Coordination with the Town of Natick, City of Framingham, and MassDOT will be required given Speen Street falls under the jurisdiction of each entity.





### **Speen Street Two-Way Conversion Assessment**

### **The Existing Challenges**





The Current Conditions of Speen Street (One-Way Pair Network)





East Spring Street Two-Way Restoration, New Albany, IN



Greenough Boulevard in Watertown, MA

#### **Superior Drive Multimodal Shared Street Conversion**



# What existing challenges do non-motorists face in this area?

This area has limited to no pedestrian or bicycle infrastructure, which creates an unsafe environment for active transportation travelers.



# What implementation & contextual challenges exist?

This improvement may coincide with URAM Area 76, as a State Listed Hazardous Waste Release Site.



# What does this look like and what does it consist of?

Resurface sidewalks where needed between Speen St NB and Speen St SB and repaint current crosswalk. Consider making Speen St a two-way roadway, close Superior Dr between ingress/egress on Superior Dr to 313 Speen St and the Residence Inn/Avenu to the east and Speen St NB to the west. Consider making this new roadway a raised shared street and add more street furniture like lights, benches, bicycle parking, and landscaping.



#### Who will benefit from this recommendation?

This recommendation will improve the multimodal network in the Golden Triangle, benefitting Cochituate Rail Trail travelers, all active transportation travelers in the area, and all shoppers in the Golden Triangle. This "calm" street will provide a safe walking and recreational space for Avenu residents and hotel-goers.



# What level of effort is required to implement this and who would be involved?

This segment of Superior Drive falls under the jurisdiction of the Town of Natick. Coordination with MassDOT should be considered as these portions of Speen Street northbound and southbound fall under MassDOT's jurisdiction.





### **Superior Drive Multimodal Shared Street Conversion**

### The Existing Challenges









Shared Street on Washington Street, Boston, MA



Shared Street – The CityFix Learn

#### **Travis Road Walking Path**



### What existing challenges do non-motorists face in this area?

Although this is a clear, desired walking path for residents, no formal pedestrian/bicycle connection exists between the neighborhood behind Travis Road and Sherwood Plaza.



# What does this look like and what does it consist of?

Create a shared use path connecting Travis Road to Strathmore Road. Build a wooden or concrete boardwalk connecting the end of Travis Rd to the back of Sherwood Plaza on Strathmore Rd. Add adequate lighting and directional wayfinding signage to indicate the connection to Sherwood Plaza and the rest of the Golden Triangle along the shared used path.



#### Who will benefit from this recommendation?

This improvement benefits the families and residents living behind Sherwood Plaza and all other active transportation travelers in the Golden Triangle.



# What implementation & contextual challenges exist?

As a portion of this improvement is within a FEMA 100-year floodplain, implementing a wooden boardwalk/concrete/asphalt shared use path from the end of Travis Road to Strathmore Road would require an NOI with local conservation commissions.



# What level of effort is required to implement this and who would be involved?

This will require coordination with United Reis Home INC, owner of parcel 0 Travis Road, Sunshine Technologies Holding Corp, owner of 21 Strathmore Road, and H&S Partners LLC, owner of parcel 19 Strathmore Road.





#### **Travis Road Walking Path**

# A

#### **The Existing Challenges**



The Existing Connection between Travis Road and Sherwood Plaza



FEMA 100-year Floodplain and Wetland Zone–1% Annual Chance Flood region (highlighted in blue) and Wetland (highlight in striped green) in Natick, MA.





Boardwalk- Marshfield, MA



Shared Used Path - Redding, CT



Shared Use Path - West Chester, Ohio

#### Hardwick Road/Essex Road Walking Path



### What existing challenges do non-motorists face in this area?

Although this is a clear, desired walking path for residents, no formal pedestrian/bicycle connection exists between the neighborhood behind Hardwick/Essex Road and Sherwood Plaza.



# What does this look like and what does it consist of?

Create a shared use path connecting Hardwick Road to Mercer Road. Build a wooden or concrete boardwalk connecting Hardwick Rd to Mercer Rd. Add adequate lighting and directional wayfinding to indicate the connection to Sherwood Plaza and the rest of the Golden Triangle along the shared used path.



#### Who will benefit from this recommendation?

This improvement benefits neighborhood residents adjacent to Sherwood Plaza and all other active transportation travelers in the Golden Triangle wishing to access Sherwood Plaza from the south of Natick.



# What implementation & contextual challenges exist?

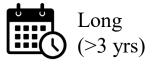
As this improvement is within a FEMA 100-year floodplain, implementing a wooden boardwalk/concrete/asphalt shared use path from the end of Hardwick/Essex Road to Mercer Road would require an NOI filing with local conservation commissions.



### What level of effort is required to implement this and who would be involved?

Coordinate with Boston Edison Company (Doing Business As Eversource Energy), owner of parcel 0 Essex Road, Sun Life Assurance Company of Canada, owner of parcel 1394 Worcester Street, and Richard M Wyman, owner of 0 Worcester Street, to discuss opportunities for formal connection between Hardwick Road, Essex Road, and Mercer Road.





#### Hardwick Road/Essex Road Walking Path

# A

#### **The Existing Challenges**





The Existing Connection between Hardwick/Essex Road and Sherwood Plaza



FEMA 100-year Floodplain and Wetland Zone–1% Annual Chance Flood region (highlighted in blue) and Wetland (highlight in striped green) in Natick, MA.







Shared Use Boardwalk

Shared Use Boardwalk/Path in wooded area

### Speen Street Shared Use Path (Between Route 30 & Nouvelle Way)



# What existing challenges do non-motorists face in this area?

There is currently no dedicated bicycle lane along Speen Street between Route 30 and Nouvelle Way. The current sidewalk in this area is disconnected and lacks safe barriers between vulnerable users and high-speed vehicles traveling on Speen Street.



### What does this look like and what does it consist of?

Reallocate right-of-way (ROW) on the western side of Speen Street between Route 30 and Nouvelle Way to create a pedestrian and bike path. Remove the existing green space median (or shift further to the east, removing one to two travel/left turn lanes) and allocate 10' for the shared-use path and up to 3' for an adequate buffer.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian network in the Golden Triangle, benefitting Cochituate Rail Trail travelers, all active transportation travelers in the area, and all shoppers in the Golden Triangle.



# What implementation & contextual challenges exist?

This improvement is within or near a FEMA 100-year floodplain and DEP wooded swamp (wetland), which may require an NOI filing with local conservation commissions, depending on its limits of work.



# What level of effort is required to implement this and who would be involved?

This segment of Speen Street is municipally owned by the City of Framingham and Town of Natick.





### Speen Street Shared Use Path (Between Route 30 & Nouvelle Way)

# A

#### The Existing Challenges



The Current Conditions of Speen Street between Route 30 and Nouvelle Way







Protected Bicycle Lanes (Protected) & Sidewalk - Marlin Engineering



Protected Shared Use Path - Street Design Manual

Speen Street North near FEMA National Flood Hazard and Wetland Region

### Speen Street & Cochituate Rail Trail Connectivity



# What existing challenges do non-motorists face in this area?

There is currently no connection between the Cochituate Rail Trail and Speen Street between Route 30 and the Wonderbread Spur.



# What does this look like and what does it consist of?

Create a bike and ped connection by improving the visibility of the Chrysler Rd connection to the Cochituate Rail Trail (CRT), through wayfinding signage at the Speen St/Chrysler Rd intersection, lighting, and a shared use path. Consider land acquisition to establish a formal east-west connection to the CRT between Chrysler Rd and Route 30, like the Wonderbread Spur.



#### Who will benefit from this recommendation?

Active transportation travelers will benefit from this recommendation. The pedestrian and bicycle network in the Golden Triangle will improve, creating a more welcoming and safer environment for vulnerable users.



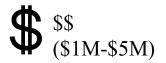
# What implementation & contextual challenges exist?

This improvement is within or near a FEMA 100-year floodplain and DEP wooded swamp (wetland), which may require an NOI filing with local conservation commissions, depending on its limits of work.



### What level of effort is required to implement this and who would be involved?

Coordination with landowners of the Home Depot as well as the Commonwealth of Mass Department of Natural Resources will be required to extend and connect the existing CRT trail to the shared use path.

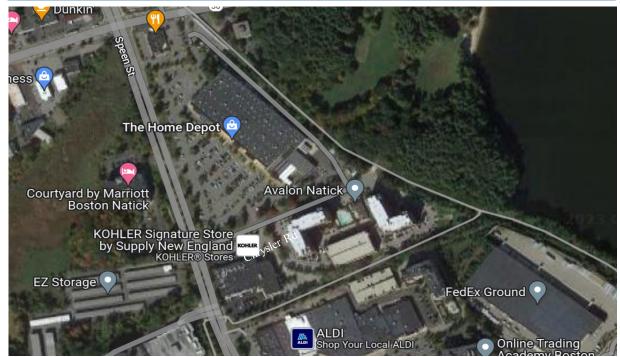




### Speen Street & Cochituate Rail Trail Connectivity

### A

#### The Existing Challenges



The Current landscape of Home Depot and the Cochituate Rail Trail (highlight in red)



FEMA 100-year Floodplain and Wetland Zone–1% Annual Chance Flood region (highlighted in blue) and Wetland (highlight in striped green) in Natick, MA.





Northern Strand Community Trail in Everett, MA



Connecticut Riverwalk and Bikeway in Chicopee, MA

# The Recommendations: User Experience



The study proposes a set of recommendations that will create a vision for a welcoming and inclusive environment for those who walk, bike, and take transit within and around the Golden Triangle. This improvement category encompasses a range of solutions, including establishing a wayfinding system across the Golden Triangle, developing a north-south multimodal corridor on Shoppers World Drive, and creating a calm street network at Sherwood Plaza.

Recommendation ID	Name	Cost	Implementation Timeline
G.3	Golden Triangle Wayfinding Assessment	\$ (<\$1M)	Short (<1 year)
SP.6	Mercer Road, Strathmore Road, & Dean Road Multimodal Connectivity Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SW.1	Shopper's World Multimodal Network & Amenities	\$\$\$ (>\$5M)	Long (> 3 years)
SW.2	Flutie Pass Park & Ride, Mid-Block Crossing, & Sidewalk/Improvements	\$\$ (\$1M-\$5M)	Medium (1-3 years)
SW. 3	Ring Road Shared Use Path	\$\$\$ (>\$5M)	Long (> 3 years)

### **G.3**

### Golden Triangle Wayfinding Assessment



### What existing challenges do non-motorists face in this area?

There is currently limited to no wayfinding signage for active transportation and vehicular travelers throughout the Golden Triangle.



# What does this look like and what does it consist of?

Create a streamlined transportation (multimodal, vehicular, and parking) wayfinding system throughout the Golden Triangle to intercept vehicles and direct multimodal users to key assets and destinations. Assess all existing wayfinding signage in the study area/Golden Triangle, document responsible entities to replace/upgrade the relevant wayfinding asset (if necessary), and document relevant implementation steps.



#### Who will benefit from this recommendation?

This improvement benefits all active transportation and vehicular travelers in the Golden Triangle.



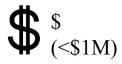
# What implementation & contextual challenges exist?

There is opportunity to prioritize this assessment and implement a wayfinding/directional signage network in the Golden Triangle to create a concise branding system for this area as development continues to grow.



# What level of effort is required to implement this and who would be involved?

Low effort - planning-level study based on jurisdiction





### **G.2**

### Golden Triangle Wayfinding Assessment

### A

#### The Existing Challenges



The Current Conditions at the Natick Mall Entrance along Speen St- Missing Wayfinding Signage



Missing Wayfinding Signage at the Entrance/Exit of Shoppers World Plaza





Wayfinding Signage City of Milwaukee



Wayfinding Signage Fitzpatrick Woolmer



Wayfinding Signage RSM Design



Wayfinding Signage Comet Signs

#### Mercer Road, Strathmore Rd, & Dean Rd Multimodal Accessibility Improvements



### What existing challenges do non-motorists face in this area?

The pedestrian and bicycle infrastructure behind and within Sherwood Plaza is discontinuous and inaccessible. There are no dedicated bicycle facilities and sidewalks are limited.



# What does this look like and what does it consist of?

Repaint all crosswalks at the intersection corners at Strathmore Rd and the paths between Hardwick/Essex Rd. Implement curb extensions at each crossing and add sidewalks along the southern part of Mercer Rd and Strathmore Rd. Implement pedestrian signage at all crossings. Consider making the new sidewalk into a shared use path to create a strong multimodal connection. Create a pedestrian and bicycle connection between Dean Rd and Mercer Rd by building a sidewalk on the western side of Dean Rd. Add directional signage and pavement markings for cyclists.



#### Who will benefit from this recommendation?

This recommendation will upgrade the pedestrian and bicycle network in the Golden Triangle, greatly improving the multimodal experience moving through Sherwood Plaza and adjacent neighborhoods to reach other destinations across Route 9.



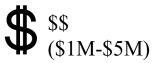
# What implementation & contextual challenges exist?

This improvement is near a DEP Wooded Swamp and FEMA flood zone, which may require an NOI filing with local conservation commissions, depending on its limits of work.



# What level of effort is required to implement this and who would be involved?

Mercer Rd, Strathmore Rd, & Dean Rd are owned by the Town of Natick. All entities along these roadways are privately owned.





#### Mercer Road, Strathmore Rd, & Dean Rd Multimodal Accessibility Improvements

# A

#### The Existing Challenges





The Current Conditions along Mercer Road - No sidewalk or bikeway



FEMA 100-year Floodplain and Wetland Zone–1% Annual Chance Flood region (highlighted in blue) and Wetland (highlight in striped green) in Natick, MA.





Protected Bike Lane and Sidewalk MassDOT



Protected Bike Lane and Sidewalk Rural Design Guide



Protected Sidewalk along Roadway

#### Shopper's World Multimodal Network & Amenities



### What existing challenges do non-motorists face in this area?

The current pedestrian infrastructure along Shopper's World Drive is discontinuous, deteriorating, and does not promote a welcoming safe environment for walkers.



# What does this look like and what does it consist of?

Add streetscape amenities at all entrances to Shopper's World. Improve the pedestrian network by building a sidewalk along Shoppers World Dr and add curb extensions at all intersections along the roadway. Repaint all crosswalks along Shopper's World Dr and add pedestrian signage. Consider adding a new north-south crossing and one east-west crossing at the Flutie Pass and Shopper's World Dr intersection. Integrate new pedestrian phasing within existing traffic signals at the new crossings and withing the existing signalized intersection. Consider raising intersections and crosswalks to increase pedestrian safety. If possible, add pedestrian refuge islands at all intersections.



#### Who will benefit from this recommendation?

This recommendation will improve the pedestrian network in the Golden Triangle, especially those traveling to Shopper's World and residents in the area.



### What implementation & contextual challenges exist?

This improvement is near a DEP Wooded Swamp, FEMA flood zone, and registered Vernal Pool, which may require an NOI filing with local conservation commissions, depending on its limits of work.



# What level of effort is required to implement this and who would be involved?

Communication with DDR MDT Shopper's World LLC, owner of parcel 1 Worcester Road and 19 Flutie Pass will be required.





#### **Shoppers World Multimodal Network & Amenities**

### A

#### The Existing Challenges



Existing Conditions along Shoppers World Drive





The Proposed Shared Use along Shoppers World Drive connecting Route 30 to Route 9, and creating a protected and dedicated bicycle and pedestrian facility which does not exist today.

### Flutie Pass Park & Ride, Mid-Block Crossing, & Sidewalk Improvements



### What existing challenges do non-motorists face in this area?

The current pedestrian and bicycle infrastructure along Flutie Pass is discontinuous and uninviting for those connecting to Shoppers World from Natick Mall, and does not promote a welcoming and safe environment for walkers.



### What does this look like and what does it consist of?

Create a strong pedestrian connection by adding sidewalks along the northern side of Flutie Pass between Shopper's World Dr and the Natick Mall Rotary. Consider adding new sidewalks along the southern side of Flutie Pass. Also consider raising the at-grade shared use path to a two-way raised shared use path between Shopper's World Dr and Natick Mall rotary. Improve the Flutie Pass Park & Ride by adding new benches and signage, repainting crosswalks, installing pedestrian exclusive signal phasing at the intersection, adding a blue light emergency button, and improving the transit stop shelter and seating.



#### Who will benefit from this recommendation?

This recommendation will create a safe and accessible connection for vulnerable users who desire to travel from the Natick Mall to Shoppers World, as well as those would like to utilize the Flutie Pass Park and Ride and safely access the Logan Express depot.



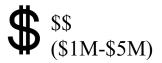
### What implementation & contextual challenges exist?

This improvement FEMA flood zone and registered Vernal Pool (located near the northern side of Flutie Pass at the Shoppers World Drive intersection), which may require an NOI filing with local conservation commissions, depending on its limits of work.



### What level of effort is required to implement this and who would be involved?

Communication and coordination with DDR MDT Shopper's World LLC, owner of 19 Flutie Pass will be required.





### Flutie Pass Park & Ride, Mid-Block Crossing, & Sidewalk Improvements

# The Existing Challenges







Existing Conditions At the Shoppers World Dr and Flutie Pass Intersection

The Proposed multimodal improvements to Flutie Pass include a new sidewalk, crosswalks, and a shared use path

### Ring Road Shared Use Path



# What existing challenges do non-motorists face in this area?

There are currently no strong bicycle and pedestrian connections or sufficient multimodal infrastructure between Shoppers World Drive, The Chesterfield Apartments, and Natick Mall.



### What does this look like and what does it consist of?

Create a strong east-west connection for cyclists and pedestrians by building a shared use path on Ring Rd between both Shoppers World Drives. Consider connecting this path to Caldor Rd and terminating it at the Chesterfield Apartments.



#### Who will benefit from this recommendation?

This recommendation will improve the multimodal network in the Golden Triangle, benefitting all residents and shoppers visiting Shoppers World and the rest of the Golden Triangle.



# What implementation & contextual challenges exist?

This improvement is near a DEP Wooded Swamp and FEMA flood zone, which may require an NOI filing with local conservation commissions, depending on its limits of work.



# What level of effort is required to implement this and who would be involved?

Coordination with DDR MDT Shoppers World LLC (parcel owner) will be required.





### Ring Road Shared Use Path



#### The Existing Challenges



The Current Sidewalk Infrastructure around Shoppers World Plaza (highlighted in red)



Shoppers World Plaza near FEMA floodplain (blue/green hatching)

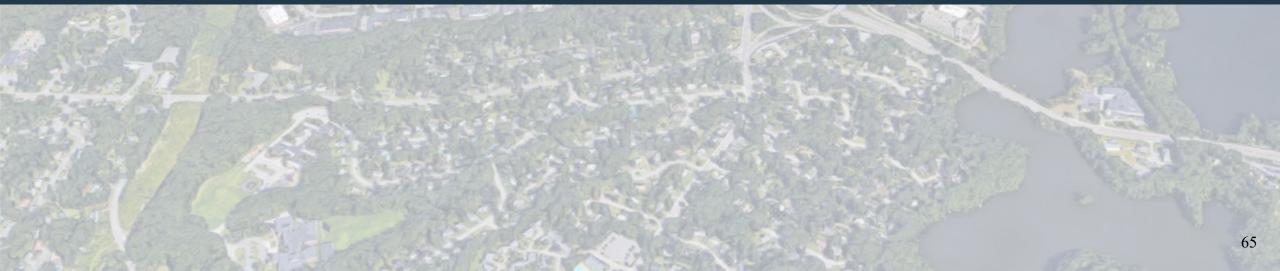




The Proposed Shared Use Path connecting the Chesterfield Apartments to Shoppers World Drive and Flutie Pass



# TECHNICAL APPENDICES



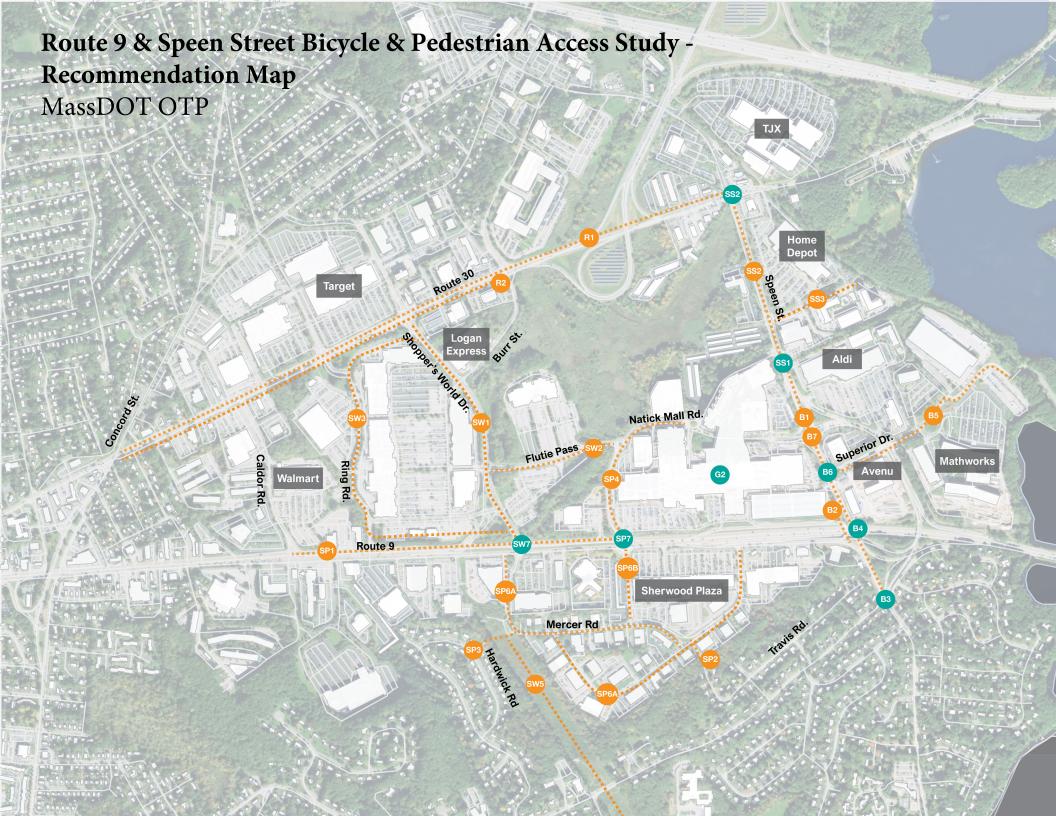
# Technical Appendices

A.1 Recommendation Matrix

D	D	December dation ID	Short-Term Implementation Plan	Medium-Term Implementation Plan	Long-Term Implementation Plan	Projection and Description Considerations
Intersection Accessibility & Safety	Golden Triangle Pedestrian Signal Assessment	G.2	SBOT-1 erm implementation Plan	Conduct a detailed survey/assessment of all existing traffic and pedestrian signals within the study area/Golden Triangle, to understand functionality, infrastructure	Long-1 erm implementation rian	ENVIRONMENTAL AND PERMITTING CONSIDERATIONS
Intersection Accessibility & Safety	Route 9 & Dean Road & Natick Mall Road Intersection Improvements	SP.7	Repaint all existing crosswalks (preferably with 10" wide painted continental crosswalk striping) and add new north-south crossing at the western side of the intersection of Route 9/Natick Mall Road/Dan Road. Enture all signals have included a pode-tim cycle, and consider exclusive pedestrian signalization. Add podestrian lighting at all crosswalks as well as blue light meregoncy between the properties of	condition, and replacement needs.  Building upon the short-term improvement, add a pedestrian island at both north-south crossings (assuming new north-south crossing on the western side) with appropriate pedestrian cycle integration, curb ramp, and detectable warning panel.	Bulding upon the medium-term improvement, remove the right hand turn lanes on Natick Mall Road (going westbound on Roate by and Dean Road (going earsboad on Roate by), and implement permanent carb extensions at all intersection crossings, with ADA-compliant cut bramps and detectable waring panels. Not that transcript the right turn lanes would require further analysis, and if determined to be infeasible, signalizing the existing right turns and ensuring that the angle is more than 60 degrees might be a sufficient solution.	
Intersection Accessibility & Safety	Nouvelle Way, Speen Street, & Wonderbrend Spur Connectivity Improvements	SS.1	Toma City).  Engage with the Team Speen LLC, parcel owner of 329 Speen Street and Fried Roberta E, parcel owner of 80 Nowelle Wey (currently Natick Mall) to discuss opportunities for realigning the interaction of Speen Street, Nowelle Wey, and the CLT Winderbook Sperus crusta a more construction of Speen Street, Nowelle Wey, and the CLT Winderbook Sperus crusta a more consumals, (referrably with 10 wide painted continental crosswalls criping) and add temperary/painted cuts extensions (painted or striped gore) at Nowvelle Wey portion of the intersection.	Add a new crosswalk at the northern point of the Nonvelle Way/Speen Street interaction going east-west (preferably with 10° wells painted continented crosswalk surjouing, and add 20° keep register to the surjouing the control of the surjouing, and add 20° keep the surjouing to the surjouing to surform crossing, with appropriate podertime signage, signals, and accessible detectable panels. Improve Induceduping at the estimate podertime register jointh and add detectable warning panels at this the Nonvelle Way/Speen Street CRI interaction. Add directional and waryfunding signage for the CRI Woodprieted Speen, and the Noack Mall. Keep prevenue makings from short-term recommendation and add ACT+O-compliant diagonal bayes the low the fault Trait on the Vestwelle Way trail.	Consider total intersection realignment, particularly to straighten the southern crossing from the Natick Mall Nonvelle Way to the Wonderbread Spar. Consider making polestrain signification at the entire intersection exclusive to prioritize manimiscular fartic, many and troustage by certain generated very textions at all four consignating (assuming season and the strain of the strain side walk on Speca Street at 329 Speca Street by sullviring green space and widening existing path.	
Intersection Accessibility & Safety	Route 30 & Speen Street Intersection Realignment	SS.2	Engage with landowners of all four corners of the intersection to discuss opportunities to pilot a program to utilize private land for multimodal idle zones.	N/A (See recommendation R.1 for crossing/crosswalk improvements)	Create permanent "multimodal idle zones" at each intersection comer (which will require land takings) with ADA- compliant curb ramp and detectable warning panels. Consider exclusive pedestrian signalization for certain pedestrian	This improvement may coincide with URAM Areas 40, 41, 42, and 43 as shown in Figure 1 (in the appendix) and the table under State Listed Hazardous Waste Release Sites
Intersection Accessibility & Safety	Speen Street & Hartford Street Intersection Improvements	В.3	Repaint all existing crosswalks at the Harford Street/Speen Street/Route 9 EB on-ramp intersection (preferably with 10" wide painted continental crosswalk striping) and paint cut bectensions using striping doze materipspin and flexible deficiency potest at the corner of 262 Speen Street. Consider exclusive pedestrian signalization at this intersections, to improve safety for all pedestrians.	Building upon the short-term improvement and assuming the implementation of an exclusive pedestrian signalization phase, add a new east-west crossing on the northern adds of the interaction crossing Species Porte and to the existing eastern side-sulk on Speca Street Northbound. Add a pedestrian retings island with pedestrian phasing at colling traffic signals and ADA complaint cube runny and detectable warning to a colling traffic signals and ADA complaint cube runny and detectable warning to the colling traffic.	movements.  Bladding upon the medium-term improvements, close off the Speen Street SB slip hane/RT (heading WB on Hartford Street) at the interaction, making one of the Speen Street SB travel lanes a Thu/RT line. Add strayed gore markings to transation this change, training directly after the Speen Street Fire Department currance. Under book offig lane to add a large, permanent curb extension, with appropriate pedestrian signalization, ADA-compliant curb ramps and detectable warning parch, and postforth lankscaping.	
& Safety	Speen Street & Route 9 Formal Intersection	B.4	N.A.	Create a perpendicular interaction on Speen Store SB at the on ramp to Route 9 access road and create a formal crossing (with 10° side painted continental crosswalls striping) connecting the Natick Mall shared-sac path to the Speen Stored Bridge. Remove the existing jerney barrier from the shared use path to the new crossing Widen existing ideavalls heading to the Speen Storet bridge. After changilar rapid flashing bacons and appropriate pedestrian warring signage ("Vield Here to Declearizans" Aufl. DCB 1.58 x13.6 x on VII. 2 signage).	Backlag upon the medium-tern improvement, to continue their consists to the eastern side of Speen Street (abstitute the Reackleace lan) and seek acknowled to Speen Street (abstitute the Reackleace lan) and seek acknowled to Speen Street (abstitute the Reackleace lan) and seek acknowledge the Reackleace land to the seek acknowledge the Reackleace land to the seek acknowledge to the seek acknowledge the seek acknowledge the seek acknowledge to the seek acknowledge the seek acknowledge to the seek acknowl	
& Safety	Superior Drive & Speen Street Southbound Pedestrian Accessibility Improvements	B.6	N/A	Add one new east-west crossing at Superior Drive and Speen Street SB (connecting the existing adewalls at 31 Speen Street to 125 Worecoter Road), with 10 wide continental crossonal markings, Ad pedestrain HAW signation and new ADA-compliant curb ramps and detectable warming panels at all intersection points/new crossings. Add permanent curb extension at the Superior Drive crossings (at the contens of the Residence Inn and 313 Speen Street) and the new cross on the western side of Speen Street.	NA	
Multimodal Roadway Safety	Sidewalk & Crosswalk Connections between Roaste 126 and Speen Street	R.1	Requist all cisting crosswalls, preferably with if wide painted continued crosswall strings; five divincesylcular to program on select diverseys to narrow undernizing driveneys slong Route 30, by adding continental crosswalls strings and temporary. Yield to Pedestrian' signaps. At all existing consoling and with program of the continued in the program of the continued and paint stripted goal and decision of the content side, Route 30 and Calder Road (confi-seeth crossing on the eastern side). Rose 10 and Road Road Road (seeth seed to the continued of the content side) flows 20 and Right (seed Shopper) with off the content side), all crossings on Rose 50 and White Stret (north-south crossing on the eastern side) and white Stretc, and Road 20 and Speca Street (north-south crossing on the eastern side and east-west crossing on the northern side).	If in the existing adversal gaps along Rotar D Networn Boxto 126 and Spent Street.  All polectains plants at all straffs signils and alterection of creatively insisting and upgrade all existing for missing at all straffs signils at all terescications (Terminally and Straffs and Str	In addition to the medium-term improvements, complete. 4-way intersections by adding new crossings and alsewalks where currently missing, including if whice colorisated recovaries, performing about the recovering traffic signals, pockers in religion in the religion of the production of the recovering traffic signals, permanent could be caused to the recovering traffic signals, present and detectable panels, incomplete missing traffic signals, and the recovering traffic signals are consistent and traffic and traffic signals are consistent and the recovering traffic signals are consistent as a signal and within the recovering on the consistent and the recovering on the consistent and the recovering on the consistent and the recovering on the recovering on the recovering of the contract and the recovering on the contract and the recovering on the recovering of the recovering on the recovering of the recovering on the recovering of the recovering on the recovering of the recovering on the recovering of the recovering of the recovering on the recovering of the recovering of the recovering on the recovering of the	This improvement may coincide with URAM as shown in Figure 1 (in the appendix) and the table under State Linted Hazardeon Wante Release Sites
Multimodal Roadway Safety	Corridor wide Protected Multimodal Facilities between Route 126 and Burr Street	R.2	Plot a two-way shared-use path on the confirms side of Route 30 between Route 1.25 and Burr Storet, using attenuation buriers or flicible fedienter post. The cycle track should accommodate a width of 12 ° 65 or each be-directional cycle voiding has med 2 for an adequate brillion. All travel decision to pilot the cycle track, a more defaulted design will seed to be developed to understand trave lane impacts given the changing ROW width within this segment of Route 30. Reconstruct all advisable, along the ortherins due of Route 9 flow clader Route to Waste (MMR Rout Bourney Control of the Route 10 or Route	126 and Burr Street with a minimum buffer along the street edge (full width: 2' buffer	Create a two-way shared-use grain on the southern side of Route 30 between Route 126 and Burt Street with a tree-lined treet buffer (fill subside. For tex hurs + 5 few shil-directional tune)—I or wightly, Dyon the decisions to implement this cycle track, a more detailed decign will need to be developed to understand travel lane impacts given the changing ROW widths within this segment of Route 30.	Thes improvements may coincide with URAM Areas 98 and 117 as shown in Figure 1 (in the appendix) and the table under State Listed Hazardons Wante Release Sites
Safety	from Caldor Road to Natick Mall Road	SP.1	by removing probables, evening intrince, adding detectional velysiding upgage, and orth extensions properties of the properties of the pr	of unprove the sudewalk facilities to create more room for potential buy-clusts and a larger buffer zone between Route 9 and pedestrains-buy-clusts walking along Route 9.	and the Nixik Mdl Road (to connect to the existing Nixik Mdl thated use path) using attenuation burries or Heuble delination prox. The Cyber thank dead accommodate a width of 10°L 70° the cyber true, with 20°L 70° and adequate delination prox. The Cyber thank dead accommodate a width of 10°L 70° the cyber thank 10°L 70°L 70°L 70°L 70°L 70°L 70°L 70°L 7	
Multimodal Roadway Safety	Natick Mall Road Sidewalk Connections	SP.4	Plot tumpoury sidewalks in the KOW on the western side of Natick Mall Road between the Natick Mall Roady and England by by implementing automation barriers, flexible delication posts, comes, or straping Reallocate? For the walking belang stras, and 3 for adequate buffer, reallocating 25 for two allegates and the property of the second post of the property walking size and for the grant Road of the Road Conference of the Road Confere	3	Bladding upon all short- and medium-term improvements, formulare the temporary side-rulk, adding a landscaped buffer and rained crossings in the two contriccis closes of 1018 Worvector Street, and formulare the walkspiking gad in the grass medium area on the western side of Natick Mall Road between the 1361 Worvector Street Natick Mall entrance and Roads 9.	As this improvement is near a FEMA (100-year Hoodplain and ADFF Wooded Swamp, creating sidewalks in the BOW on the western doe Nutrick Mall 100-year Hoodplain and ADFF Wooded Swamp, creating sidewalks in the BOW on the western doe Nutrick Mall 100-year Hoodplain and ADFF Wooded Swamp and Rouse 9 may require an NOI filing with the local conservation commission, depending on its limits of work.
Multimodal Roadway Safety	Power Line Shared Use Path	SP.5	Coordinate with Boston Edison Company (Doing Business As Eversource Energy), the owner of purceis at 0 Exex (and End, 111 Hardred Street, and 108 Hardred Street to discuss opportunities for utilizing open space under the existing power lines for future shared-use paths or multimodal flexilities. Although no poire coordination has been established, in die als favored by the Town of Natick and should create a framework for opening the lines of communication between Eversource and Natick-Framingham.	Implement an informal, improved (gravel) or boundwalls shared-sue path behind Starthinner Road where the existing powerline runs. This path would connect Mercorr Rd to Hardwick Rd, Travis Rd, and Hartford St (or certain segments under the power line easement), and include certain temporary streetscape amenties such as benches and signage.	Consider insplementing a formal, proved, shared-use path behind Strathmore Road where the existing powerline runs. This path would concurs thereof Ro Is Hardwick All, Trairs & and, Hardroff S., and would be pavole gained part of productions and bikers with adequate lighting, benches, shaded area, bike racks, and any other street furniture necessary.	As this improvement is within a FEMA 100-year floodplain and a DFP Shallow Marsh Meadow, Strub Swamp, and Wooded Swamp, it would require an NOI filing with the local conservation commission.
Multimodal Roadway Safety	Speen Street Bridge Multimodal Improvements	B.2	N/A	N/A	Widen Speen St bridge to include a shared use path on the western side of the bridge that connects to the existing shared- used path along the Natick Mall perimeter juralleling Speen Street and existing sidewalks on Hartford St. This will create a podestriamblycel connection from Golden Triangle area to the residences south of Route.	
Multimodal Roadway Safety Roadway Transformation	Superior Drive & Cochituate Rail Trail Connection	B.5 SP.2	N/A  Keep the existing informal connection, but add identification and directional wavfinding signage on	Create a clear connection between Superior Drive and the Cochinate Rail Trail by adding directional and informational pedestrian way finding signage. Implement sidewalks that connect throughout the entirety of Superior Drive by resurfacing where needed (particularly on the northern side of Superior Drive between Speen Street NB and the CRT. Coordinate with United Reis Home INC, owner of parcel 0 Travis Road, Sunshine		As a portion of this improvement is within a FEMA 100-year floodplain, implementing a wooden
Roadway Transformation	Travis Road Walking Path	SP.2	Recep the existing informat connection, but add identification and directional wayrinding signage on Travis Road and Strathmore Road for multimodal users accessing Sherwood Plaza.	Technologies Holding Corp, owner of 21 Strathmore Road, and H&S Partners LLC, owner of parcel 19 Strathmore Road, to discuss opportunities for formal connection	facility/bridge) from the end of Travis Road to Strathmore Road. Add lighting on the sides of the path. Include identification and directional wayfinding signage at the beginning of the path and on Travis Road, indicating there is a	As a portion or this improvement is wittin a FEMA 100-year moodpiain, imprementing a wooden boardwalk/concrete/ispalish stared use path from the end of Travis Road to Strathmore Road would require an NOI filling with the local conservation commission.
Roadway Transformation	Hardwick Road/Essex Road Walking Path	SP-3	Keep the existing connection, but add identification and directional wayfinding signage on Hartford and Mercer Road indicating the connection.	between Travis Road, Strathmere Road, and Mercer Road.  Coordinate with Boston Edison Corposay (Doing Business As Evenource Energy), owner of parcel D Esser Road, Sun Life Assurance Company of Canada, owner of arcel 1949 Worscores Struet, and Ecklard M Wyman, owner of O Worscores Struet, and Gischard M Wyman, owner of O Worscores Struet, and Gischard M Wyman, owner of O Worscore Struet, to discuss opportunities for formal connection between Hardwick Road, Essex Road, and Mercer Road.	connection to Sherwood Plaza.  Building upon condition of Effort, implement a weoden boursbuilk/concrete/asphalt shared use path (most likely a raised facility bridge) from the end of Hardwick/Essex Road to Mercer Road. Add lighting on the sides of the path. Include admittation and dericculant workings signage at the beginning of the path and on Hardwick/Essex Road, indicating there is a connection to Sherwood Plaza.	shared use path from the end of Hardwick/Essex Road to Mercer Road would require an NOI filing with the local conservation commission.
Roadway Transformation	Speen Street Shared Use Path (Between Route 30 & Nouvelle Way)	SS.3	N/A	N/A	Reallocate ROW on the western side of Speen Street between Route 30 and Nouvelle Way to create a pedestrian and bike path. Remove the existing green space median (or shift further to the easter, removing one to two travel/LT lanes) and allocate 10 for the shared-use path and up to 37 for an adequate buffer.	As this improvement is within or near a FEMA 100-year floodplain (which is also a DEP Shallow Marsh Meadow) (western side of Speen Street near the Route 30 intersection), it may require an NOI filing with the local conservation commission, depending on its limits of work.
Roadway Transformation	Speen Street & Cochituate Rail Trail Connectivity	SS.4	Engage with purcel owner of 341 Speen Street, 339 Speen Street, and 6 Chrysler Road to discuss opportunities to create a visible and multimodal-friendly connection from Speen Street to the Cochinate Rull Trail.	Improve visibility of Chrysler Road connection to the Rail Trail, through more wayfinding signage at the Speen Street/Chrysler Road intersection, lighting, and a	and amountee to row sames-use pain and up to 5 not an acceptance ounce.  Through land takings, establish a formal east-west connection to the Rail Trail between Chrysler Road and Route 30, similar to the Wonderbread Spur.	conservation commission, depending on its imms of work.
Roadway Transformation	Speen Street Two-Way Conversion	B.1	No.	temporary shared-use path [fisht using temporary delineation such as traffic cones.). Ferform a traffic impact study to evaluate transforming phese pracet into a two-way street between Nouvelle Way and Hartford St, and the impacts it would have to suchicalar circulation and artfile. If Specia forms between two way nonlway, this would eliminate the need for the Benetichout, which could open up space for podestraines belieged. Given the impacts to welclamer circulation, potential quoting, an internation of the property of the property of the property of the transition the northbound side of Specia Street to two way, which will need to be studied in spread receil to understand the impacts to realignment will Route 9.	NA.	
Roadway Transformation	Superior Street Multimodal Shared Street Conversion	B.7	N/A	Resurface sidewalks where needed between Spoen Street NB and Spoen Street SB and repaint current crosswalks (preferably with 10' wide painted continental crosswalk striping).	Along with making Speen Street a two-way readway, close Superior Drive between the ingress/grees on Superior Drive to all 31 Speen Street and the Residence Intra-Newton to the east and Speen Street Ms to the west Transition into a raised shared street and add supporting streetscape amenities such as lighting, directional and informational wayfinding signage, beaches, keyele parking, and landscaping. Allow vehicles to enter and exit these parcets, and forbid any vehicular access qual of these driverses.	This improvement may coincide with URAM Area 76 as shown in Figure 1 (in the appendix) and the table under State Listed Hazardous Waste Release Sites
User Experience	Mercer Road & Strathmore Road Sidewalk Improvements	SP.6A	Pairt ensowakt (perferably with 10° wide painted continental cross-with integring at all interactions) concerns at Strattmens and Code Med Strattmens (and interactions) and the informal path between the continent and the continent and the continent and the continent and the continent search of the continent and the continent and the continent and the continent search of the continent and the continent and the continent and the continent and Strattmens Road ROW for the cold-wide and temporary buffers implement polarism in gauge, the continent Road ROW for the cold-wide and temporary buffers implement polarism in gauge, consisting and the continent and the continen	Building upon the short term improvement, make all our hextensions permanent, adding ADA-compliant earlt namps and destensible varning panels. Make the temporary sidewalk on the southern sides of Mercer Road and Strathmore Road permanent, creating an a-grade shared-use path, reallocating up to 10-12 for an at- grade shared-use path and flexible delineator post buffer. Note that Mercer Road and Strathmore Road are all under the Town of Natick, pirisdiction.		As the improvement is within or near a FEMA 100-year floodplain, it may require an NOI filling with the local conservation commission, depending on its limits of work.
User Experience	& Sidewalk Improvements	SW.2	L Enging with DDR MDF Shopper's World LLC, owners of pared 19 Fluid Pans. to plat temporary without allowable on the ordern size of Fluid Pans between Shopper's World Drive and the Nuick Mall Rutary, using attenuation harms; stipping come, or flexible editionater pans. Also pilat rese, which was the size of the plate of the plat	Skopper's World Drive and the Naistic Mall Ratury (along the northern side of the modeshoy) by cutting not be landenpod beffice and environing the center LTRI landenby landenby and texts in Pierce and the center of the side with extension to create as a signed shared-one path. Decline and center is present the contraction of the contr	between Shopper's World Drive and the Natick Mall Roam; Those improvements will be influenced by the incoming development in the 2 Thuse Pass parted.  2. From the Park & Roise pick-gridpung-of Fination in the Parking Lat. Committee IV right contrastent conventules and build the Parking Lat. Committee IV right contrastent conventules and build be a substantial conventules and build be a substantial to the Contrastent to the Parking Lat. And a raised mad belock croming in the western entrance of the Park & Roise Parking Lat to connect to the existing sideway the other contents us the Contrastent to the Parking Lat. And a raised made book croming in the western entrance of the Park & Roise Parking Lat to to connect to the custing sideway the other backs contrast contents and the Contrastent Contrastent of the Contrastent Cont	beyond the vernal pool's boundary. It is also located near a DEP Shath Swamp and/or a Wooded Swamp.  Note: This improvement is not located in a mapped protected open space, per Mass GIS Mass mapper (Figure 2 Protected and Recreational Open space).
User Experience	Shopper's World Multimodal Network & Ameaities	SW.1	In Engage with DDR MDF Shopper's World LLC, owner or Jureal I Weeceser Boost and 19 Finders, to plot temporary stretcapes amenited at all entrances (only and cell points) to Shopper's World. All entrances to Shopper's World along Shopper's World Drive and Rung Boost should have I work confinement consensuls, temporary can deventiones, using parall, patience, or citriped gove (made and the confinement consensuls, temporary can be extremely a superior stretch and temporary can be extremely as the extremely and extremely as the extension as the extinsion generates consensus for measurement of the extremely consensus for the extremely consensus for the extremely consensus to predict the extremely consensus to the e	podestrian siling area, given grading issues directly behind this corner of the intersection.  2. In addition to the short-term recommendations, make all temporary curb extensions permanent, and contract ADA-compilant curb ramps and descetable warning panels. Add speed bumps or raised crossings instead of at-grade painted crosswalks, and add stop bars (where missing), stop signs, and podestrian warning signage.	1. The implementation of fibes improvements will be gravily influenced. & impacted by the future development at 1 Worcester Road, and sudd be integrated into the fairs of the proposed development.  2. Create permanent code settemion at all corners of the Flatis Bas Shappers. World Drive intersection, and pedestrian ordering islands for himperings accountability infrarestrienty if the method, asstern, and southern points of the antersection. Consider exclusive polarities significances or this intersection.	As the improvement is within or our at FEMA (109 year floodplant (sear Roote 9) and or a certified venual pool is locusted near the nothins due of Flatie Pass at the Shopper's Word Drovi interaction, it may region an NOI filling with the local conservation commission, depending on its limits of work. Vernal pools are protected under the WPA regulations and protection can extend up to 125 feet beyond the vernal pool's boundary. It is also located near a UEP Wooded Swange.
User Experience	Golden Triangle Wayfinding Assessment	G.3	N/A	Create a streamlined transportation (multimodal, velicular, and parking) wayfinding system throughout the Golden Triangle to intercept vehicles and direct multimodal tuers to key assets and destinations. Conduct an assessment of all existing wayfinding signage in the study area (Golden Triangle, document repossible entity to replace/upgrade the relevant wayfinding asset (if necessary) and document relevant implementation steps.	NA -	
User Experience	Dean Road Connectivity & Accessibility Improvements	SP.6B	Engage with purcel owners of 3 Dean Road, 1298 Worcester Street, 1360 Worcester Street, and the Town of Natick (Dean Road owner) to discuss opportunities to formalize a multimodal connection or Dean Road from Mercer Road to Route 9.	Paint crosswalks (preferably with 10' wide painted continental crosswalk striping) at the intersection of Dean Road and Mercer Road, and add directional signage to the existing path on the eastern side of Dean Road. Add pavement markings (sharrows) for welling.	Create a permanent sidewalk on the western side of Dean Road, allowing for at least -5° for a dedicated walking path.	As this improvement is within or near a FEMA 100-year floodplain, it may require an NOI filing with the local conservation commission, depending on its limits of work.
User Experience	Ring Road Shared-Use Path	SW.3	Considering the southern portion of the 1 Worcester Road parcel is slated for new development, there is an opportunity to create a strong east-west connection for multimodal susers on Ring Rd. Work with Framingham and the 1 Worcester Road parcel owner to discuss the opportunity to connect the	cyclists.  Pilot an east-west shared-use path on Ring Road between both Shoppers World Drives to the east and west. This should include pavement markings and temporary delineation	Upon the implementation of new development, formalize this shared-use path, and continue it to connect to Caldor Rd and terminating at the Lord Chesterfield Apartments.	
			Framingham and the 1 Worcester Road parcel owner to discuss the opportunity to connect the Shoppers World Drive Shared Street to Caldor Road.	(sucn as traffic cones) to allow for ~10-12' of reallocated ROW.		

# Technical Appendices

A.2 Recommendation Map





**Recommendations Report** 

October 2023