



U.S. Department  
of Transportation  
Federal Transit  
Administration



Department of  
Transportation



# NYS Route 110

Bus Rapid Transit  
Project Development

June 30, 2021 1:00 PM via ZOOM



## Technical Advisory Committee Meeting #3

# Agenda

- Welcome
- Project Status
- Proposed Station Locations
- Non-Motorized Modes & New Mobility Options
- Ongoing Coordination and Outreach
- Next Steps
- Questions







# CONNECT LONG ISLAND

## A Regional Transportation and Development Plan



### BUS RAPID TRANSIT

An express bus service offering the high quality amenities of rail service at a fraction of the cost. Bus Rapid Transit (BRT) is faster and more reliable than local bus service and features amenities such as more attractive station shelters, real time service updates, and dedicated bus service infrastructure to keep people moving despite intense traffic.

### TRANSIT ORIENTED DEVELOPMENT

A development concentrated around a main transportation hub such as a LIRR train station. Transit Oriented Development (TOD) is a walkable downtown that balances urban and suburban living, and features amenities such as attractive and varied housing options, high quality public spaces, and retail and transit all in close proximity.

### REGIONAL ASSET

1. Cold Spring Harbor Laboratory
2. Farmingdale State University
3. SCCC - Brentwood Campus
4. MacArthur Airport
5. SCCC - Ammerman Campus
6. Stony Brook University
7. Stony Brook Hospital
8. Brookhaven National Lab
9. Enterprise Park at Calverton
10. Hamptons Business District

### LIRR DOUBLE TRACK

Construction of a second track between Farmingdale and Ronkonkoma to reduce crowding, prevent delays and boost the local economy by:

- Increasing Reverse Peak service
- Expanding Off Peak service in both directions
- Creating better connections to MacArthur Airport

### LIRR ELECTRIFICATION

Conversion of diesel train service to electrified third rail service increasing the

# Project Goals

- Improve mobility and connectivity
- Enhance economic competitiveness and promote economic growth
- Maximize cost and operational effectiveness
- Minimize adverse environmental impacts

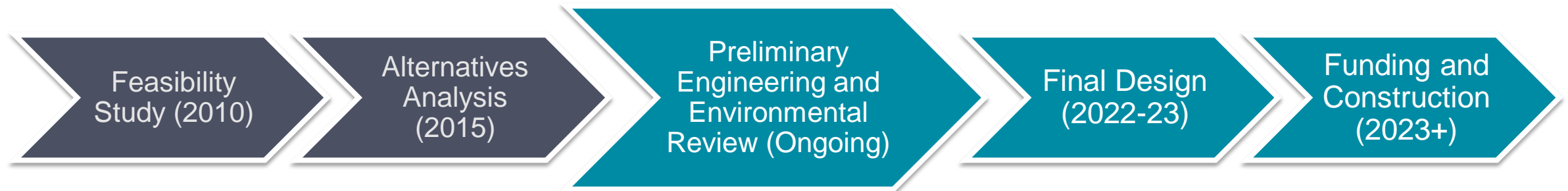


# Project Status



# Project Status

- Identified station locations and developed preliminary station designs for input
- Traffic analysis and environmental review is underway
  - Important locations for noise monitoring?
- Coordinating with New York State Department of Transportation regarding roadway improvements
- Identified new mobility options that could help connect to and expand the reach of the Route 110 BRT service



# Proposed BRT Alignments & Characteristics

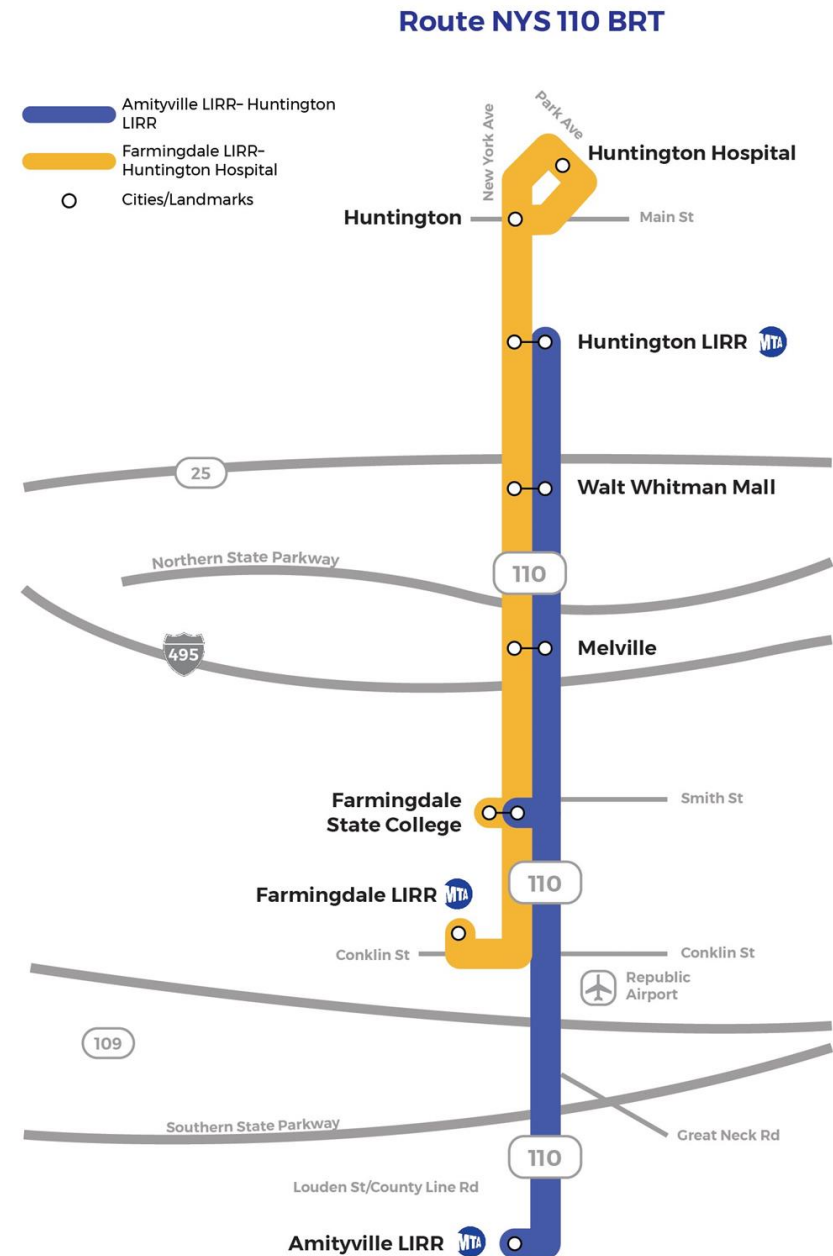
# Proposed BRT Routes

## Blue Route

- Between Amityville LIRR and Huntington LIRR via Route 110

## Yellow Route

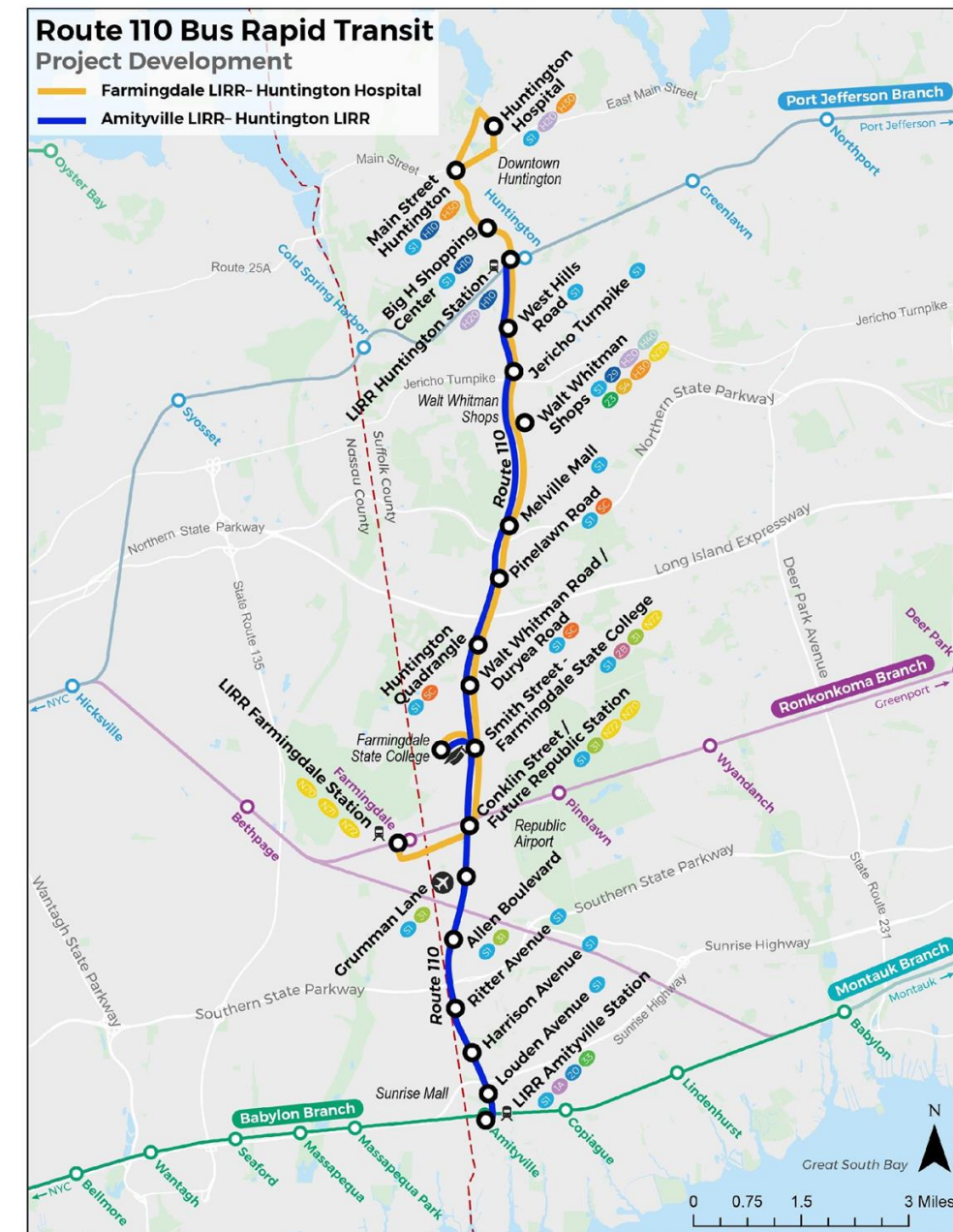
- Between Farmingdale LIRR and Huntington Hospital via Conklin Street and Route 110
- S1 continues to operate, but less frequently, to serve more localized trips and insure transit access for those with mobility impairments.





# BRT Alignment Map

- It is necessary to connect the BRT to the LIRR Main Line at Farmingdale.
- A one-mile diversion to Farmingdale would discourage through riders.
- Our solution is two overlapping BRT routes: one originating at Amityville LIRR, the other originating at Farmingdale LIRR



# Proposed BRT Frequencies & Hours of Service

Route	Peak Headway	Off-Peak Headway
Blue	15 minutes	30 minutes
Yellow	15 minutes	30 minutes
S1 Local	60 minutes	60 minutes

Route	Days	Time
Blue	Monday – Thursday	5:30 AM – 10:00 PM
	Friday	5:30 AM – 12:00 AM
	Saturday	7:00 AM – 12:00AM
Yellow	Sunday	7:00 AM– 9:00 PM
	Monday - Friday	6:00 AM – 10:00 PM
	Saturday - Sunday	7:00 AM – 9:00 PM
S1 Local (no change)	Monday – Friday	5:40 AM – 9:00 PM
	Saturday – Sunday	7:15 AM – 6:30 PM





# Estimated BRT Travel Time

(Farmingdale State College - On Campus/ Farmingdale State College - Smith Street)

Route	Direction	Length (mi)	Proposed Travel Time (min)	Average Speed Throughout (mph)
Blue	NB	13.9/13.1	44/42	19.0/18.0
Blue	SB	13.9/13.2	46/43	18.1/18.3
Yellow	NB	12.9/12.1	45/43	16.9/16.8
Yellow	SB	13.4/12.7	45/44	17.5/17.3
S1	NB	13.8	55	15.1
S1	SB	13.6	50	16.3

Travel times for the Blue BRT Route and S1 are estimated for the route segment between Amityville LIRR Station and Huntington LIRR Station

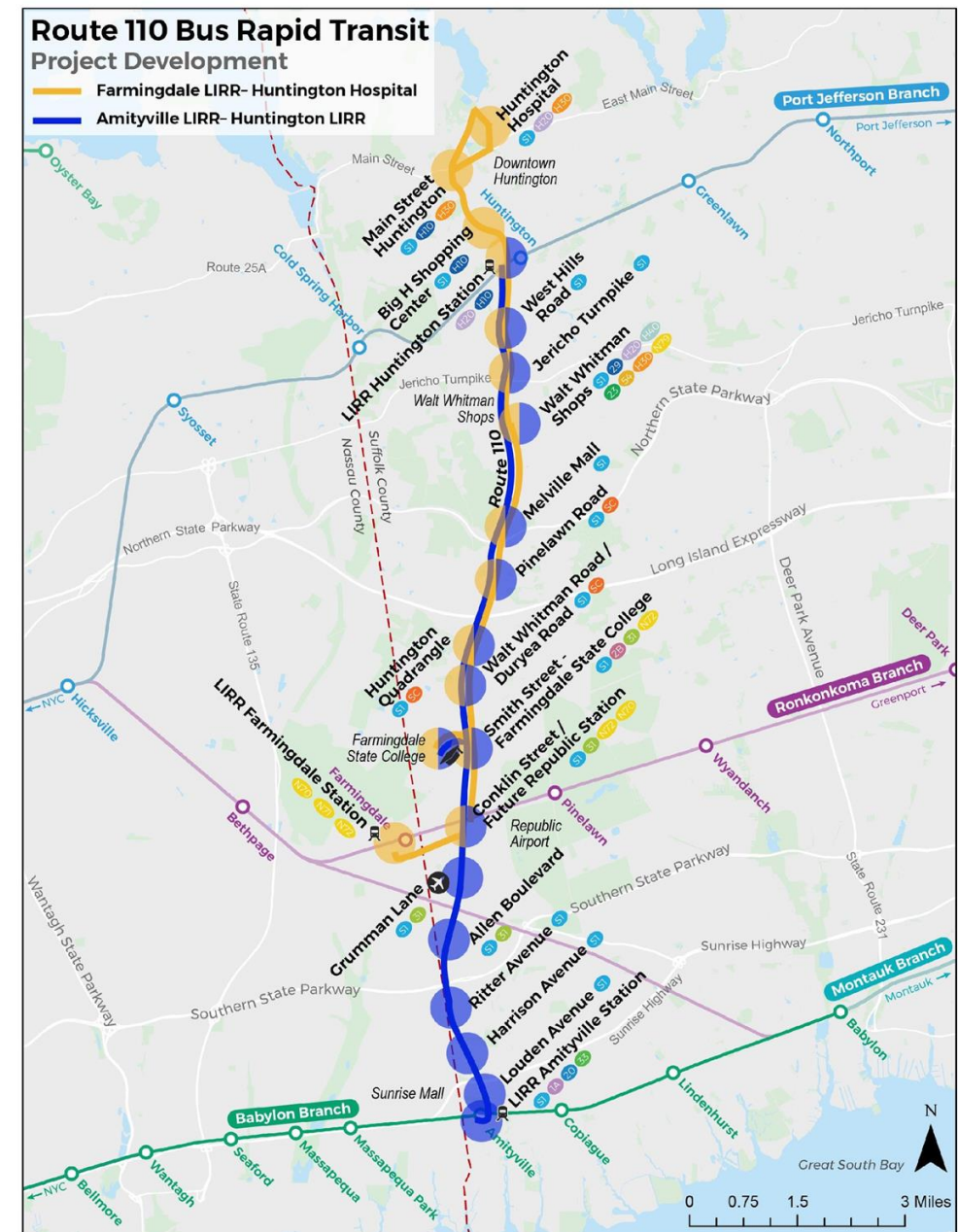


# Proposed BRT Stations

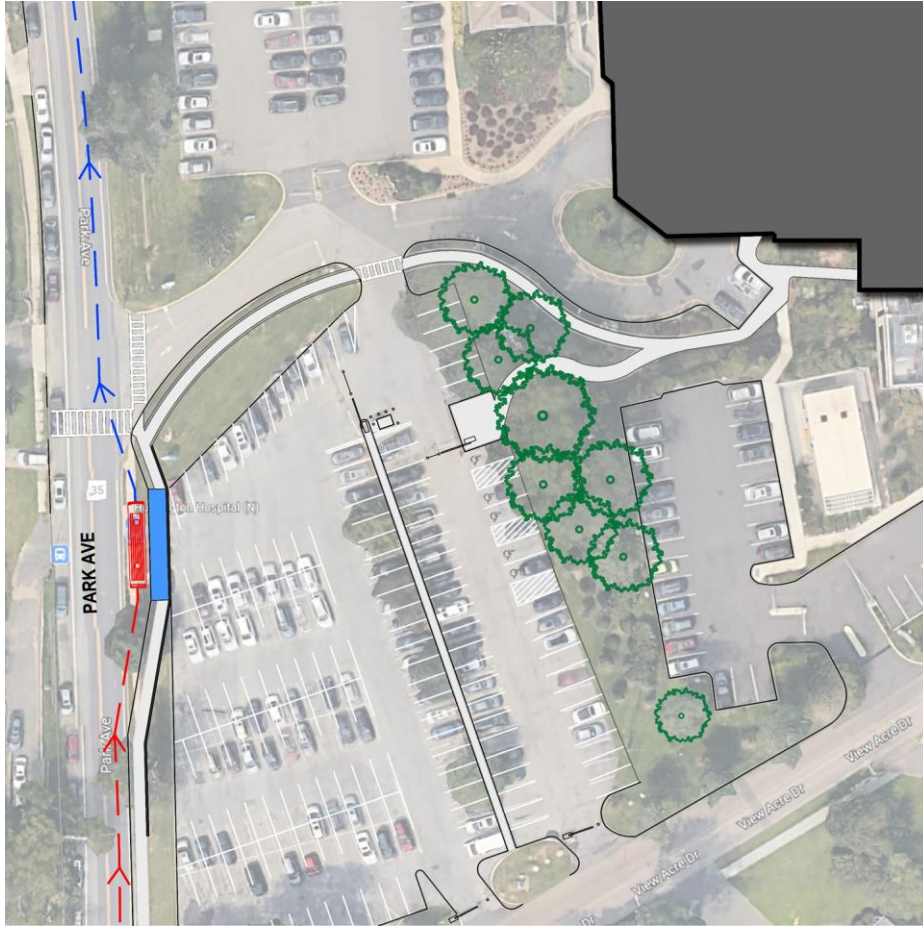


# Stations Map

Station	Alignment	
	Blue	Yellow
Huntington Hospital		X
Main St, Huntington		X
Big H Shopping Center		X
Huntington LIRR	X	X
West Hills Rd	X	X
Jericho Turnpike	X	X
Walt Whitman Mall	X	X
Melville Mall	X	X
Pinelawn Rd	X	X
Huntington Quad	X	X
Duryea Rd	X	X
Smith St	X	X
Farmingdale State College	X	X
Farmingdale LIRR		X
Conklin St	X	X
Republic Airport/Grumman Ln	X	
Allen Blvd	X	
Ritter Ave	X	
Harrison Ave	X	
Louden Ave	X	
Amityville LIRR	X	

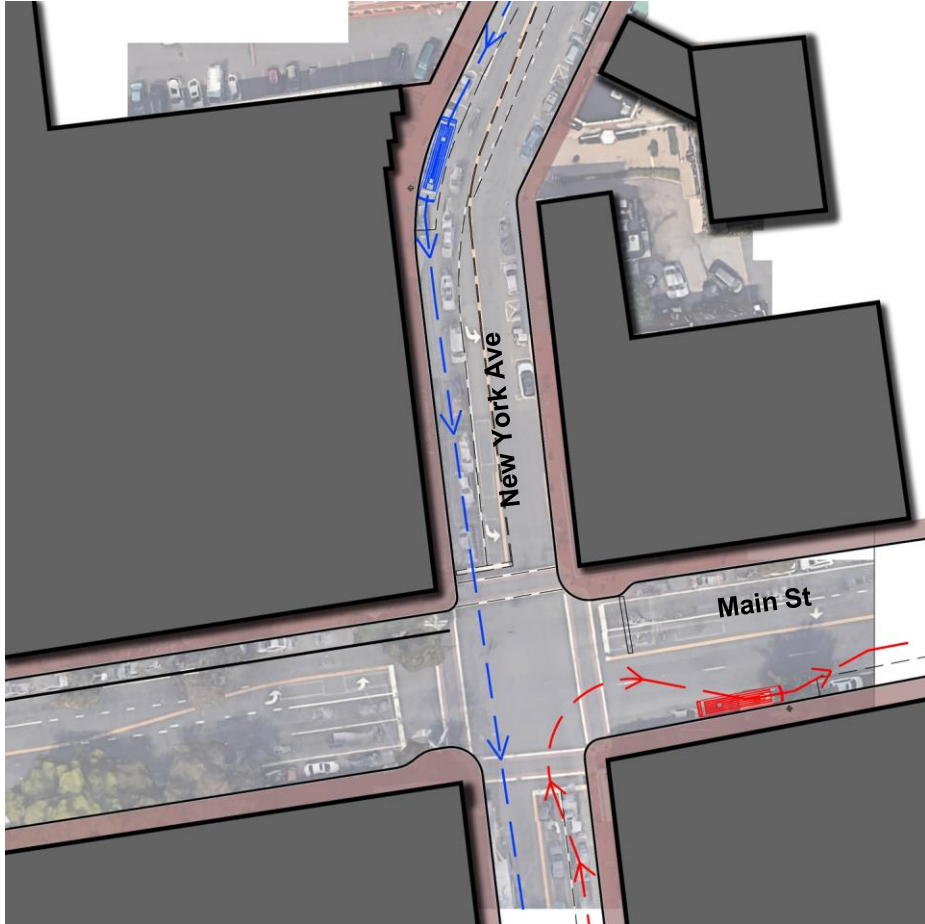


# Huntington Hospital



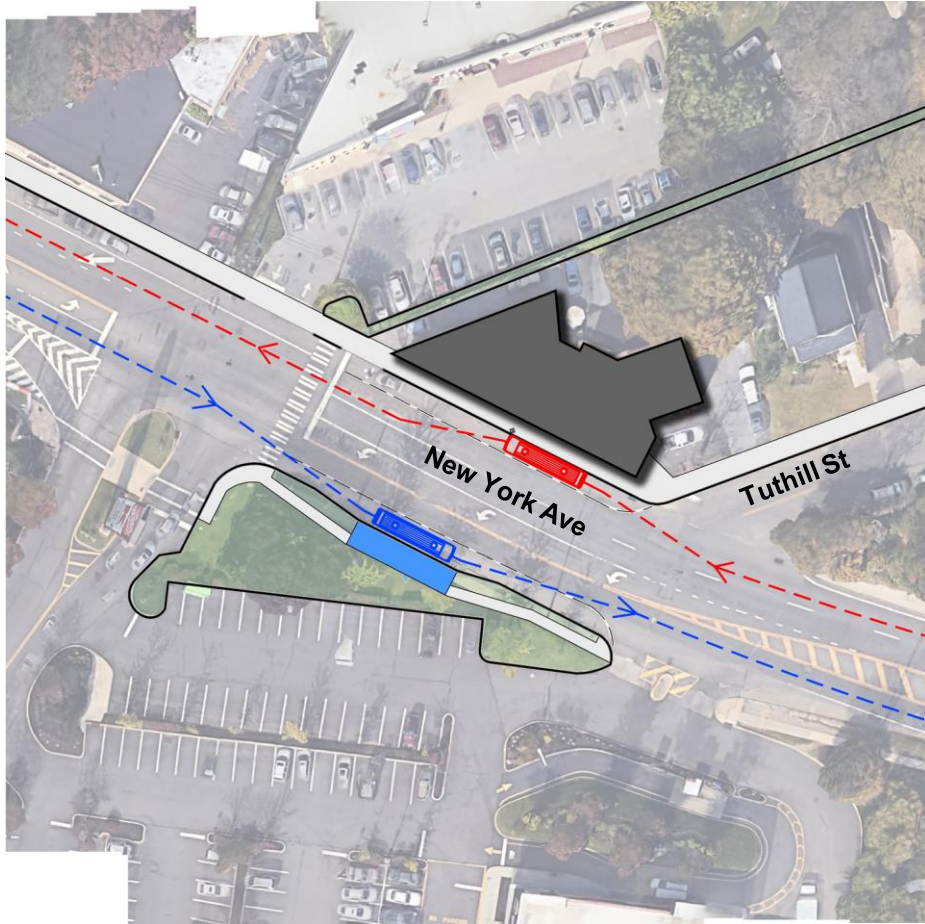


# Main Street Huntington



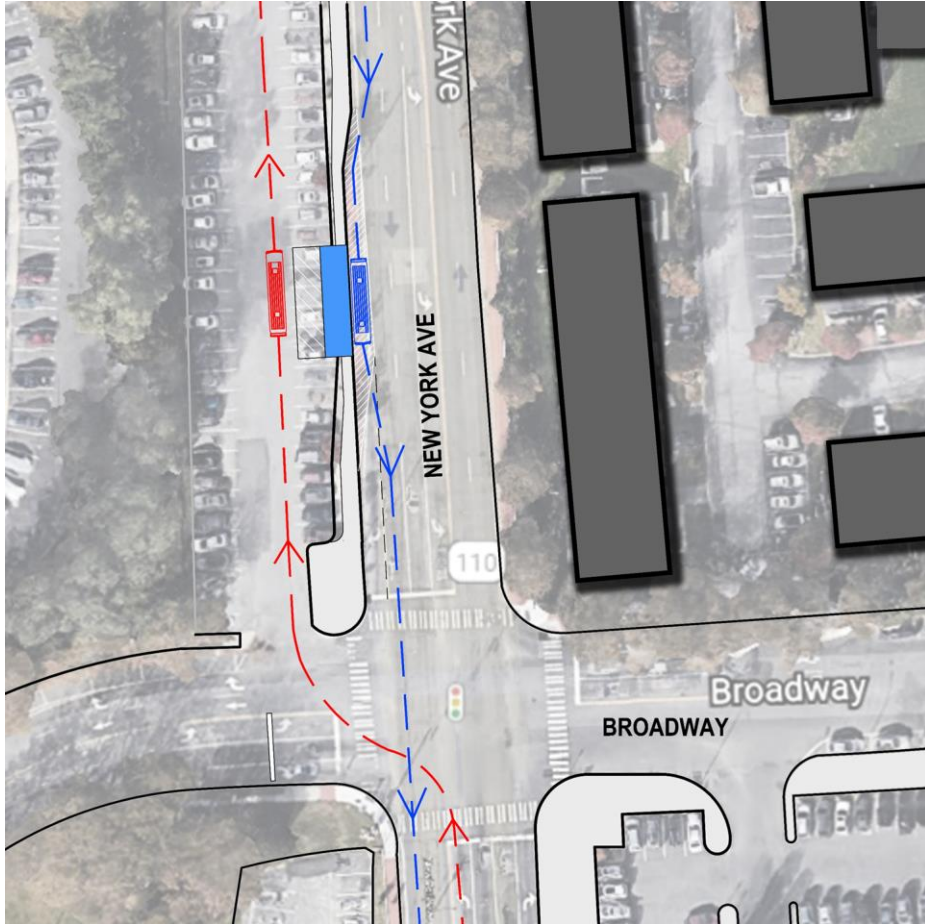


# Big H Shopping Center



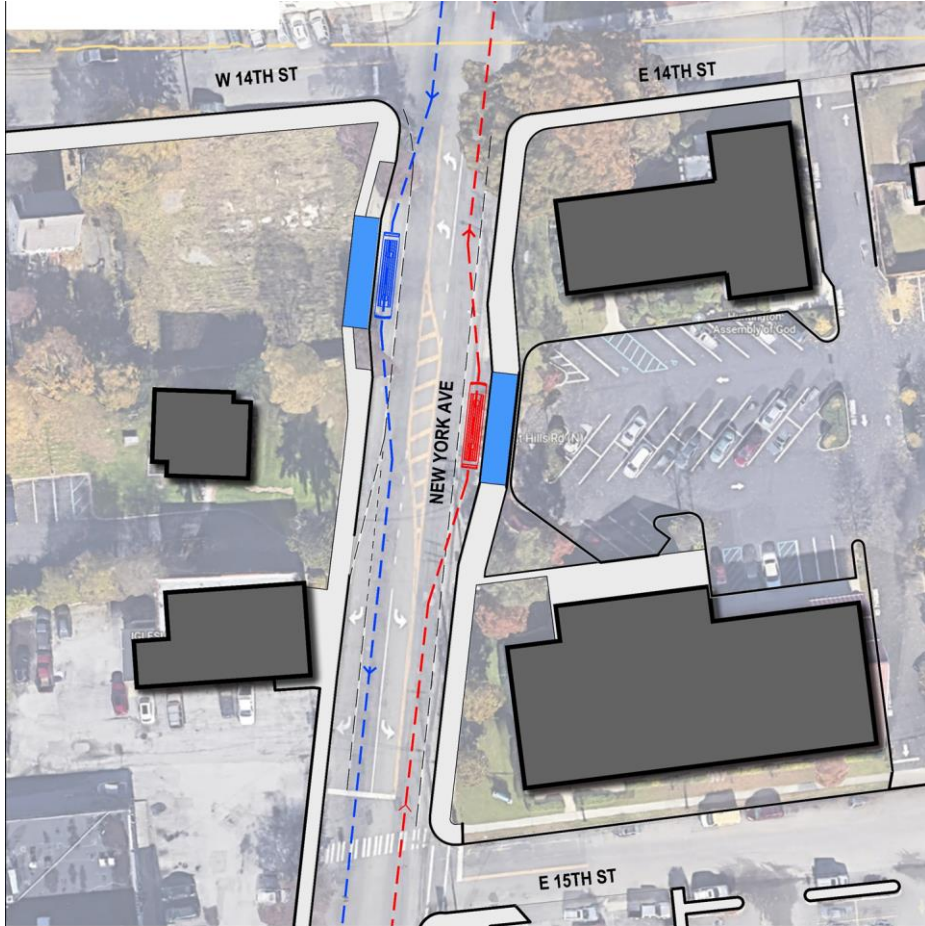


# Huntington LIRR Station



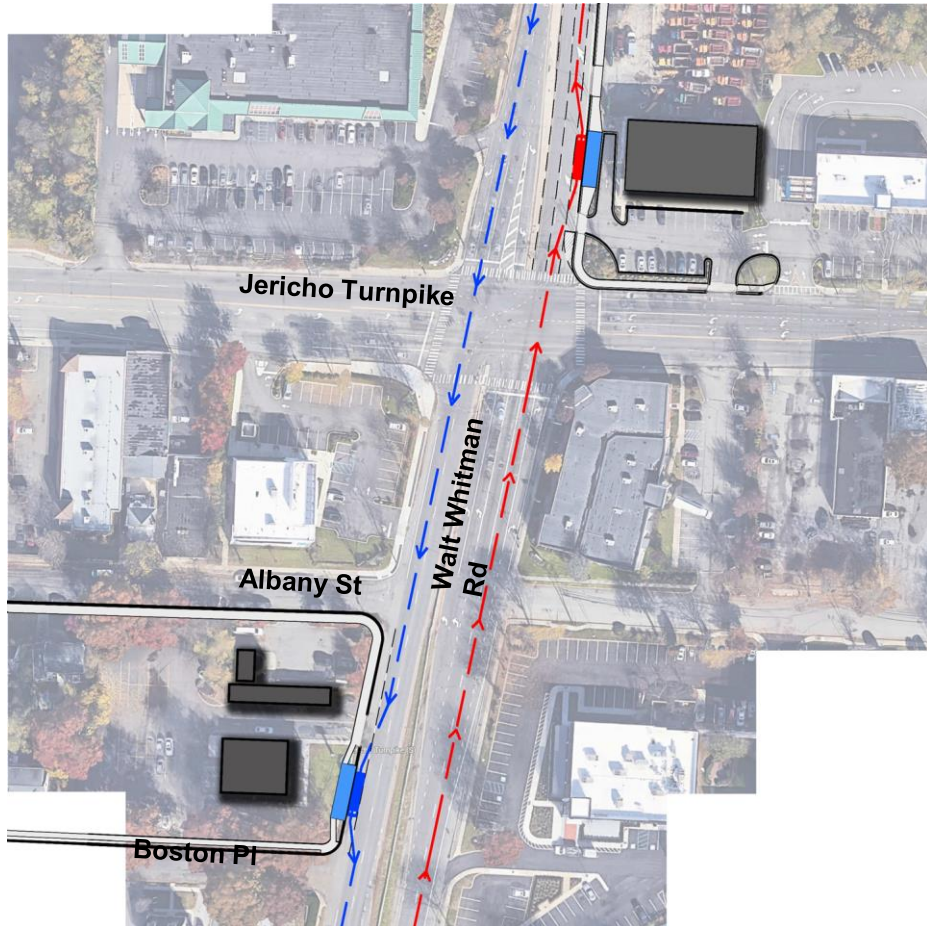


## West Hills Road / 14<sup>th</sup> Street Huntington Station



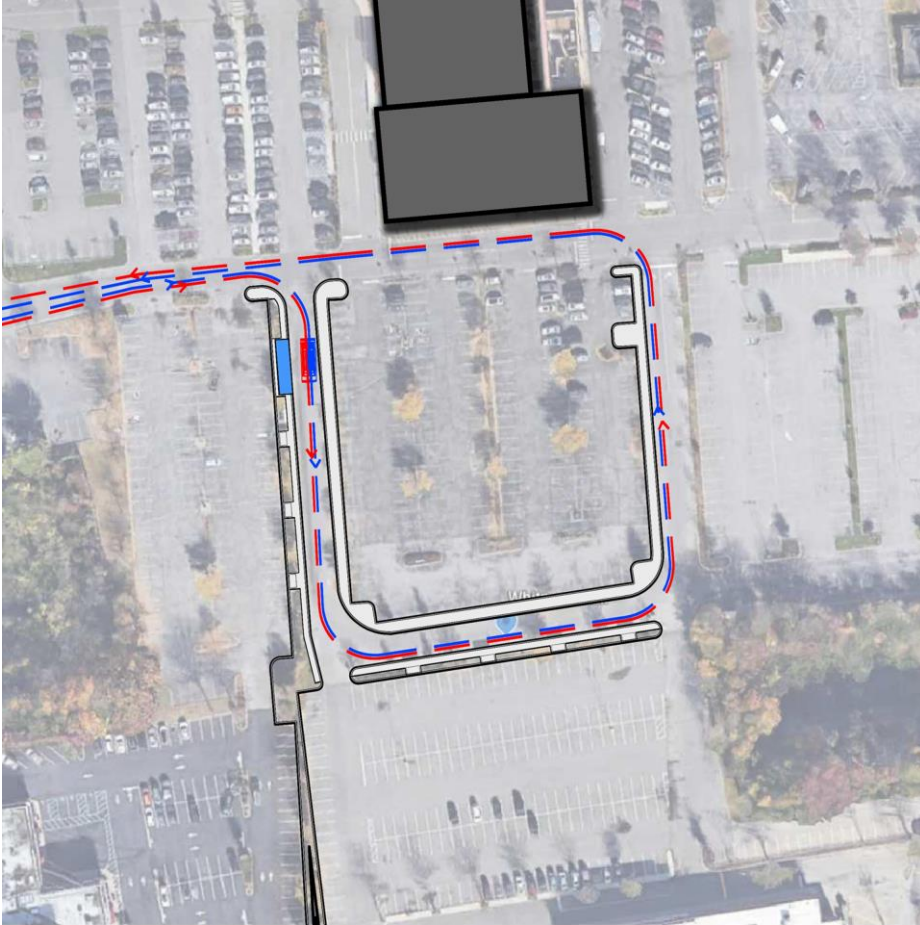


# Jericho Turnpike



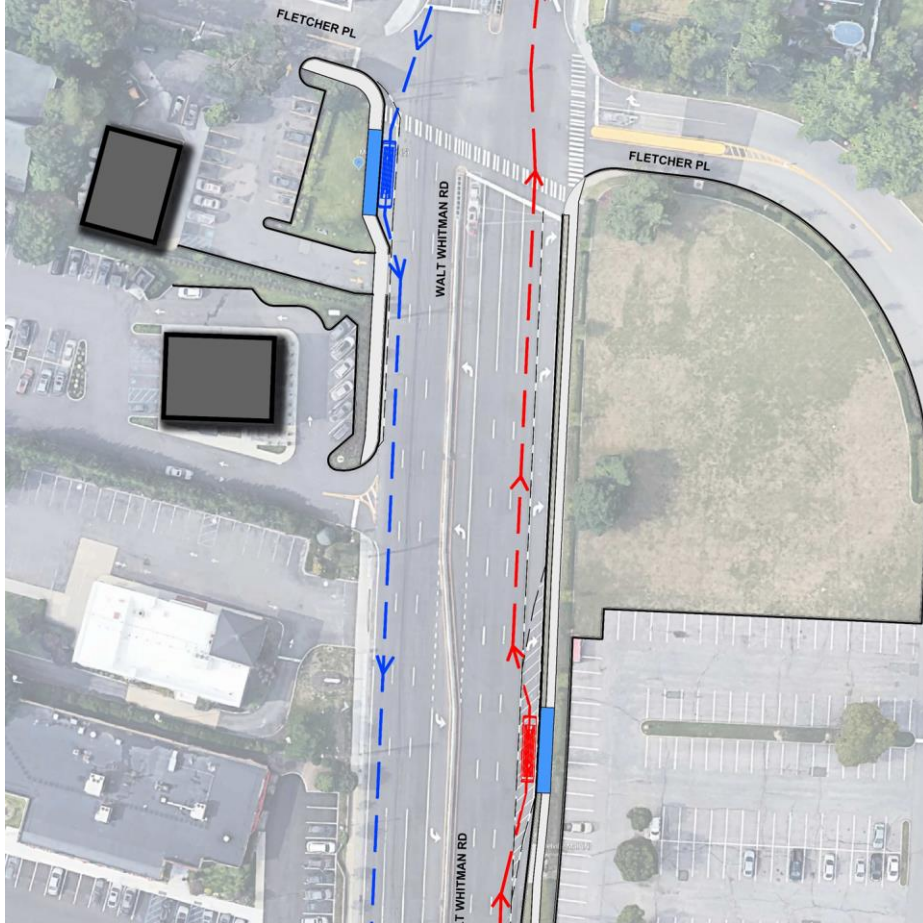


## Walt Whitman Shops



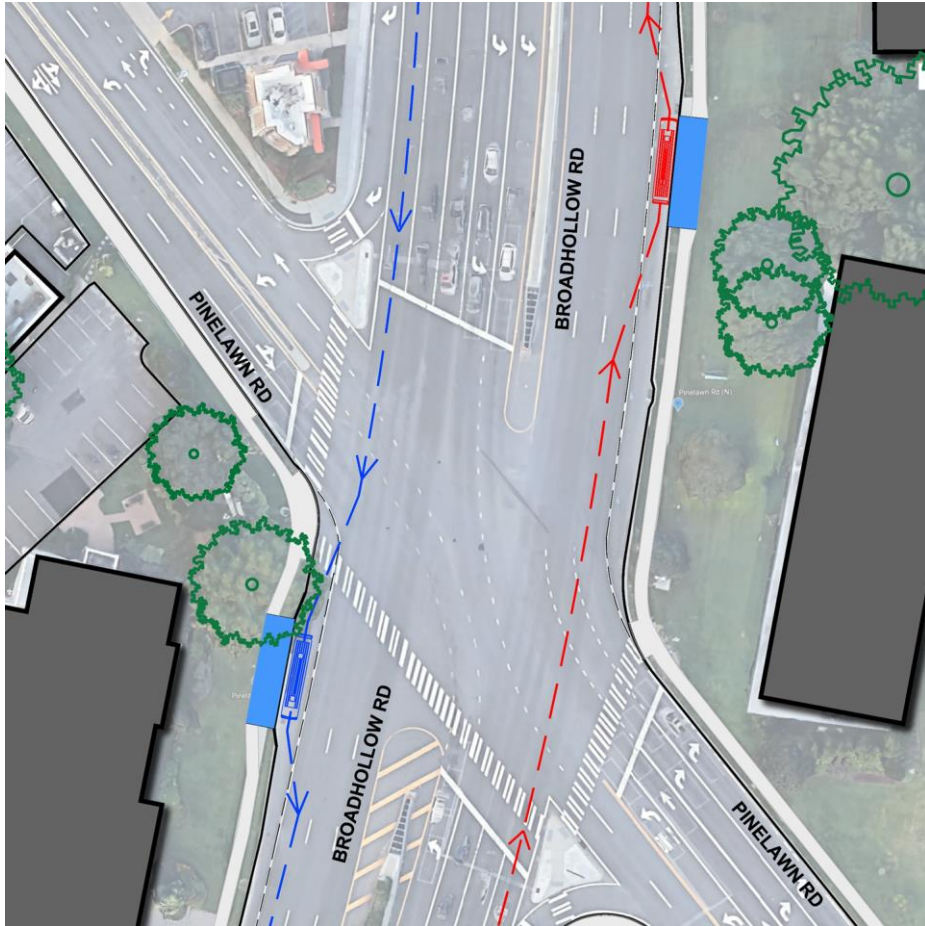


# Melville Mall



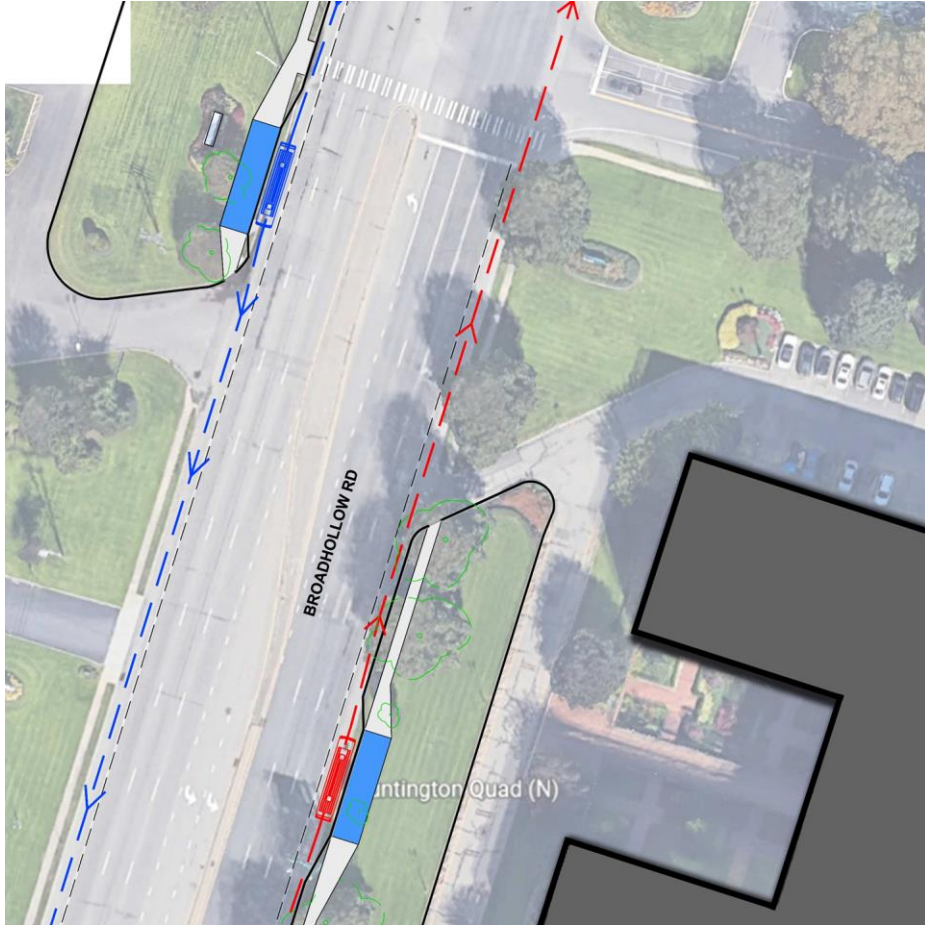


# Pinelawn Road Melville



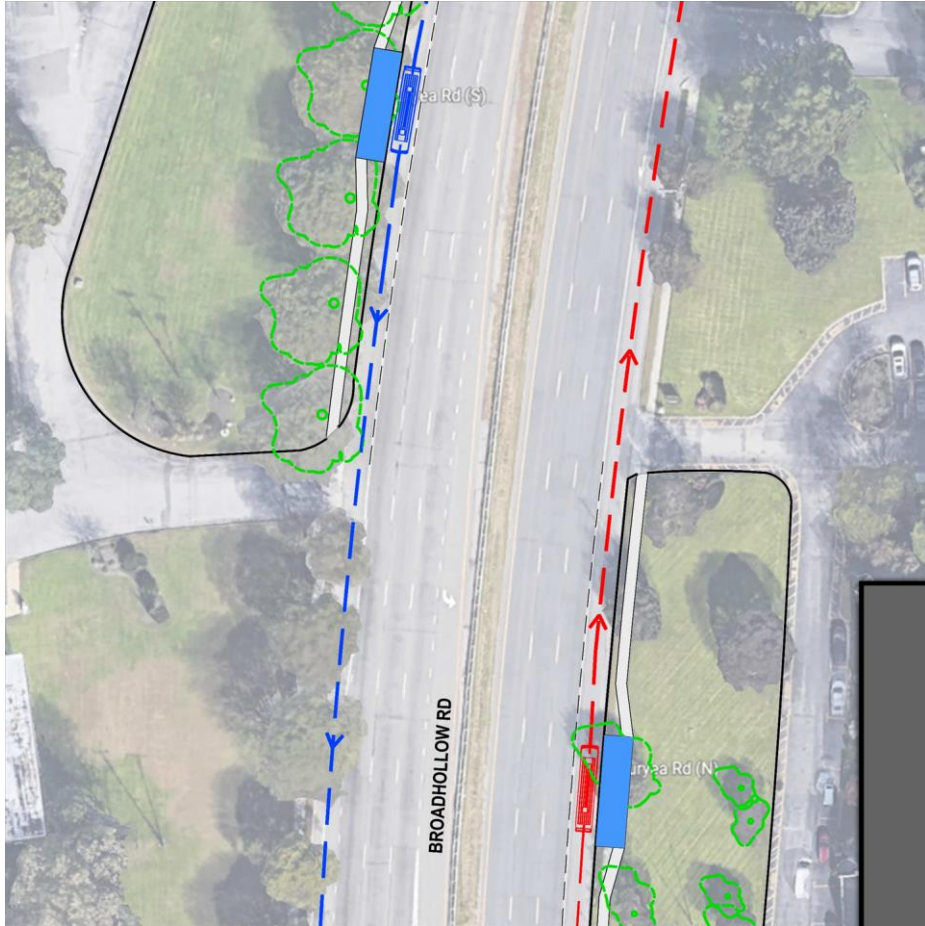


# Huntington Quadrangle



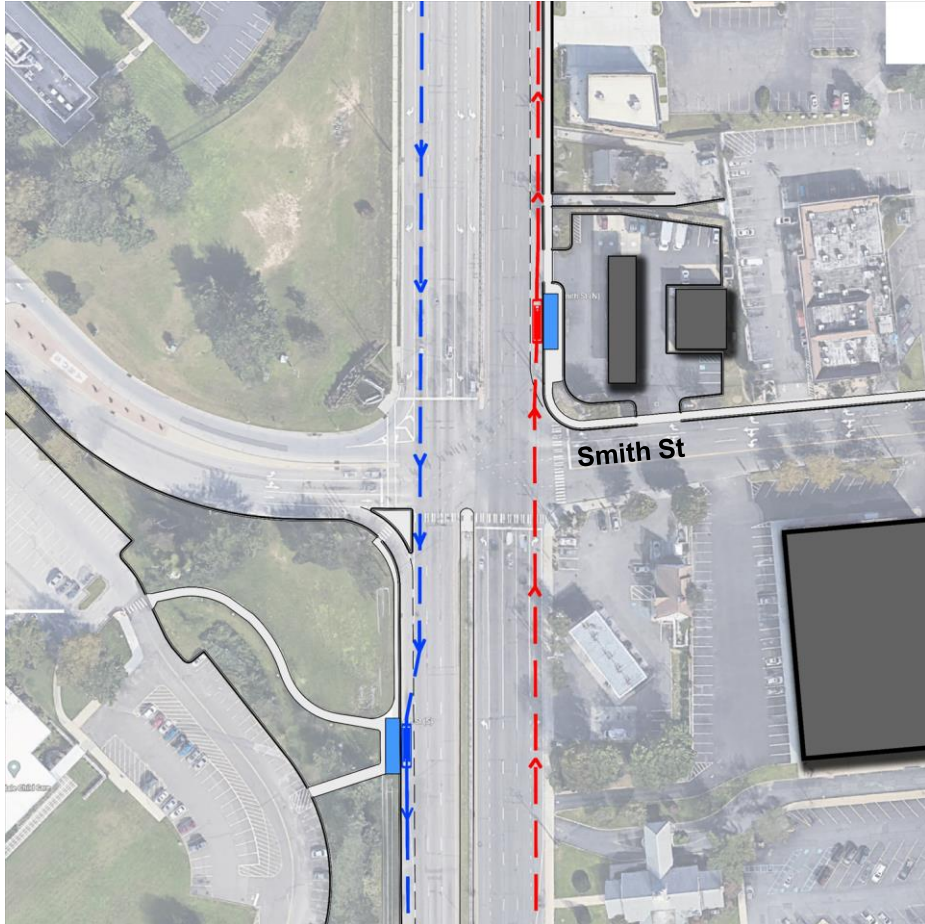


# Duryea Road Farmingdale



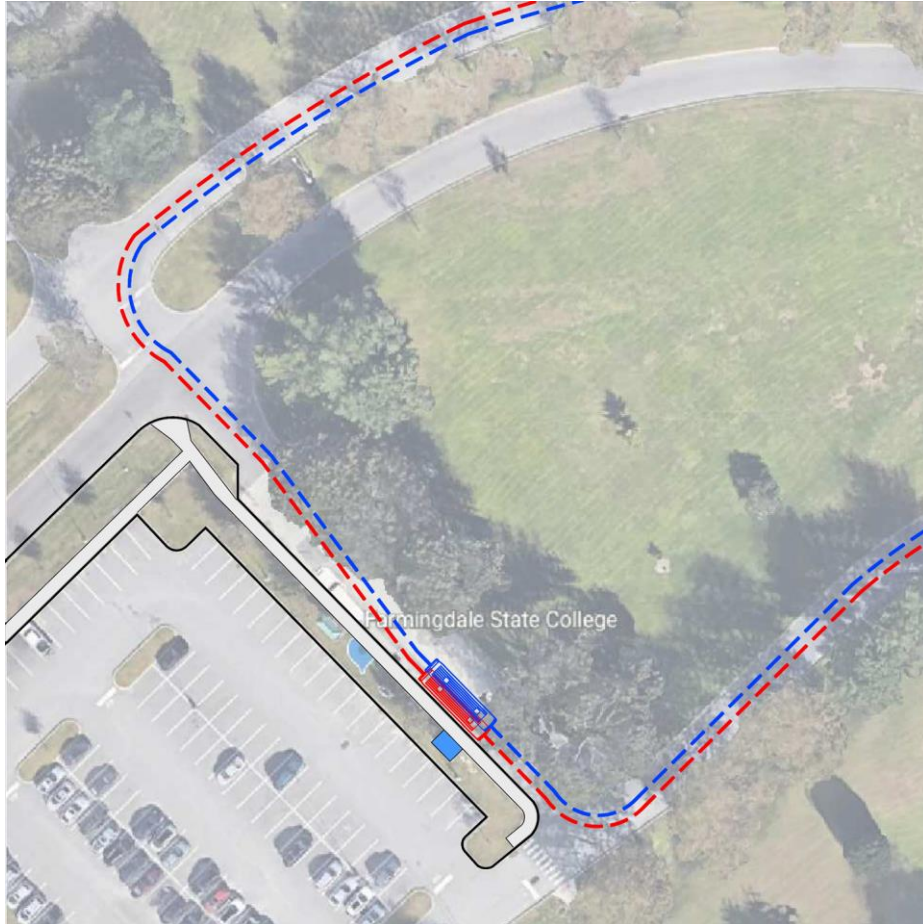


# Smith Street Farmingdale





# Farmingdale State College



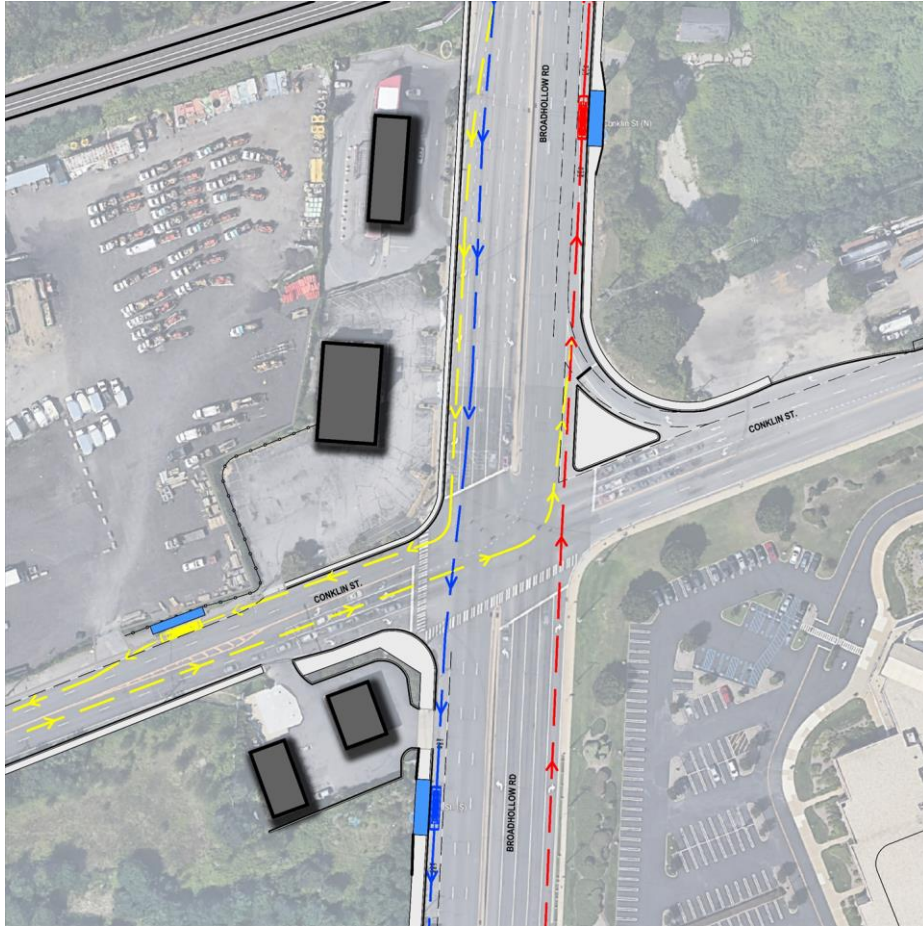


# Farmingdale LIRR Station



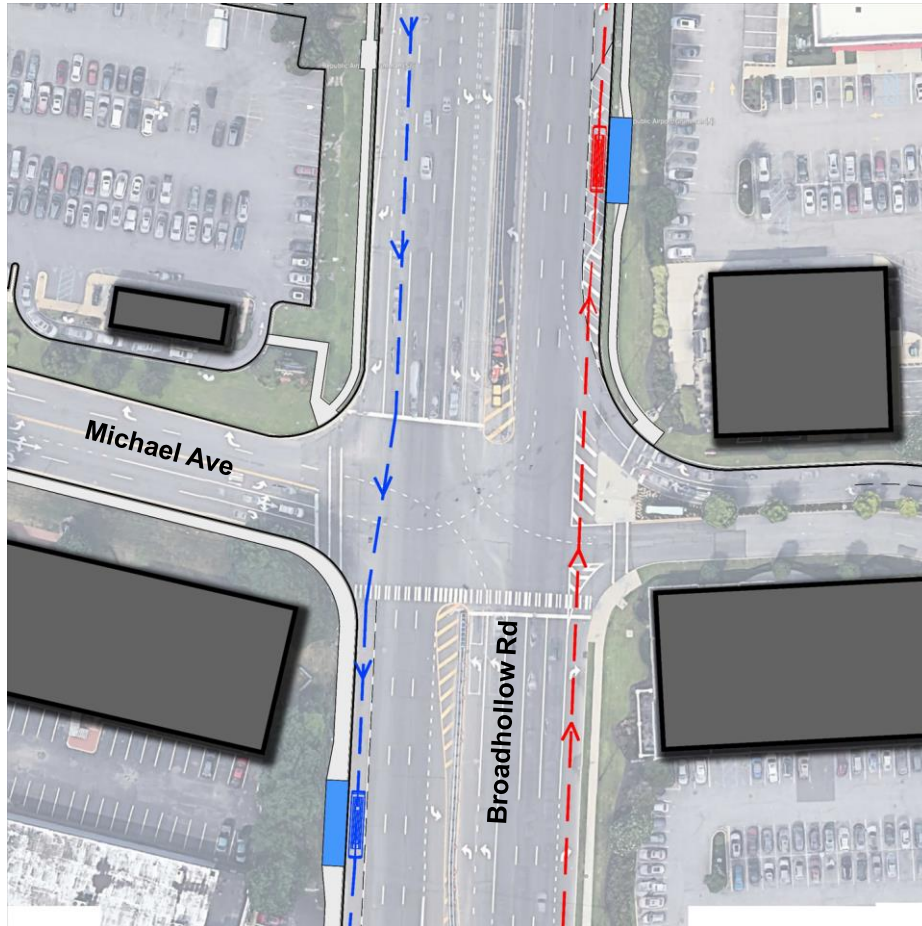


# Conklin Street Farmingdale



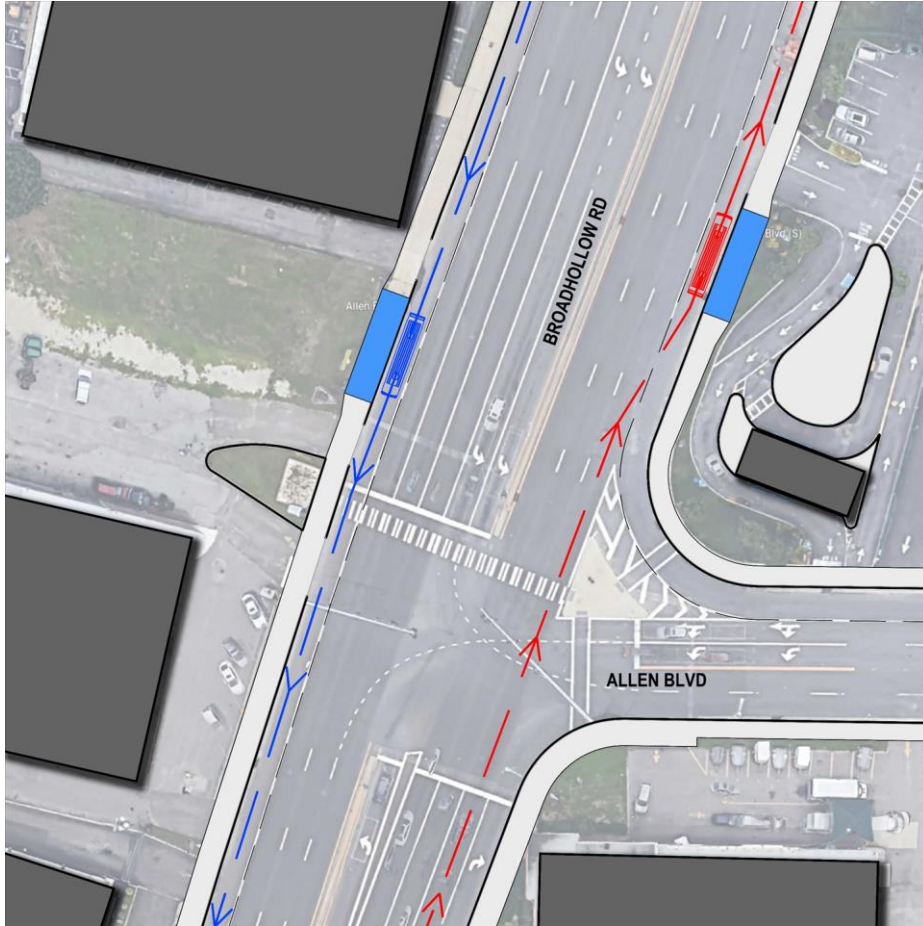


## Republic Airport/Grumman Lane East Farmingdale (WalMart)



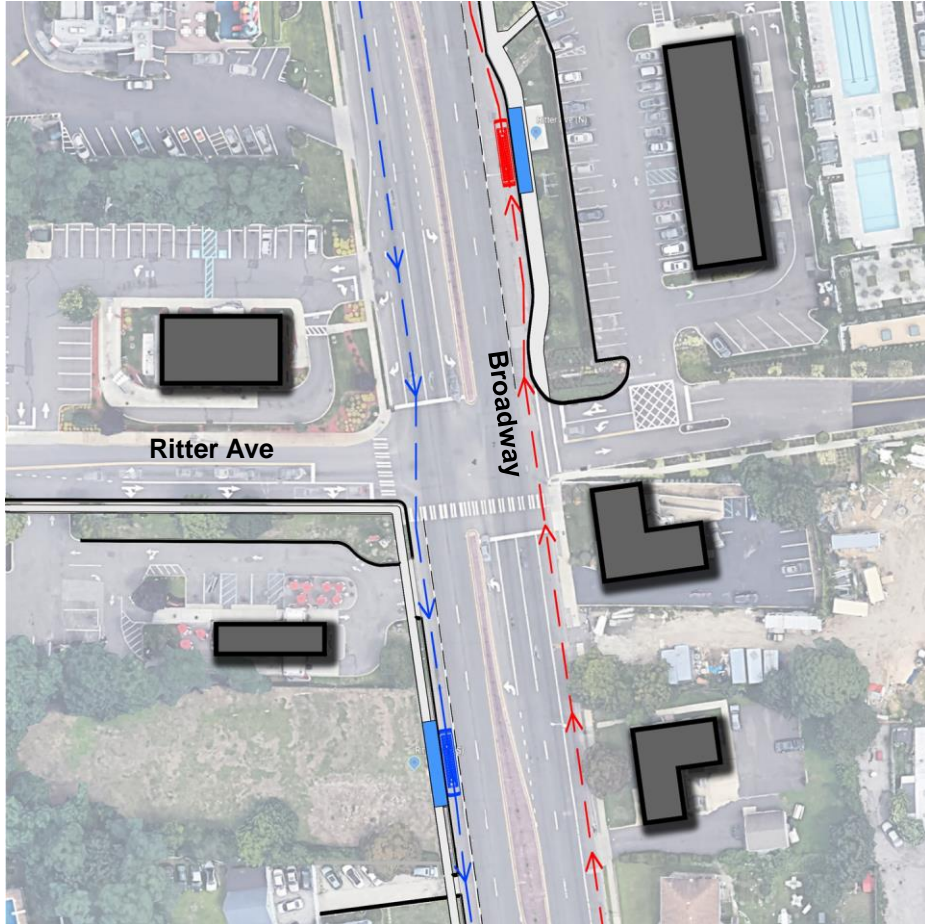


# Allen Blvd East Farmingdale



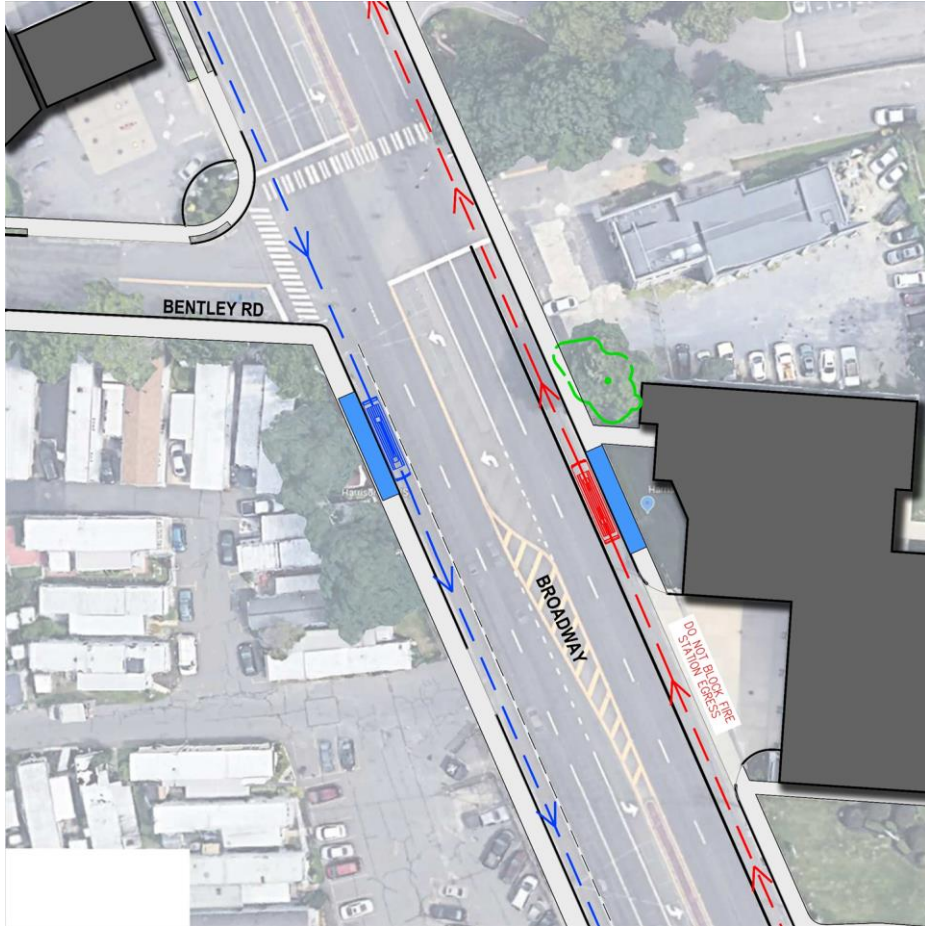


## Ritter Avenue North Amityville (Grey Barn)



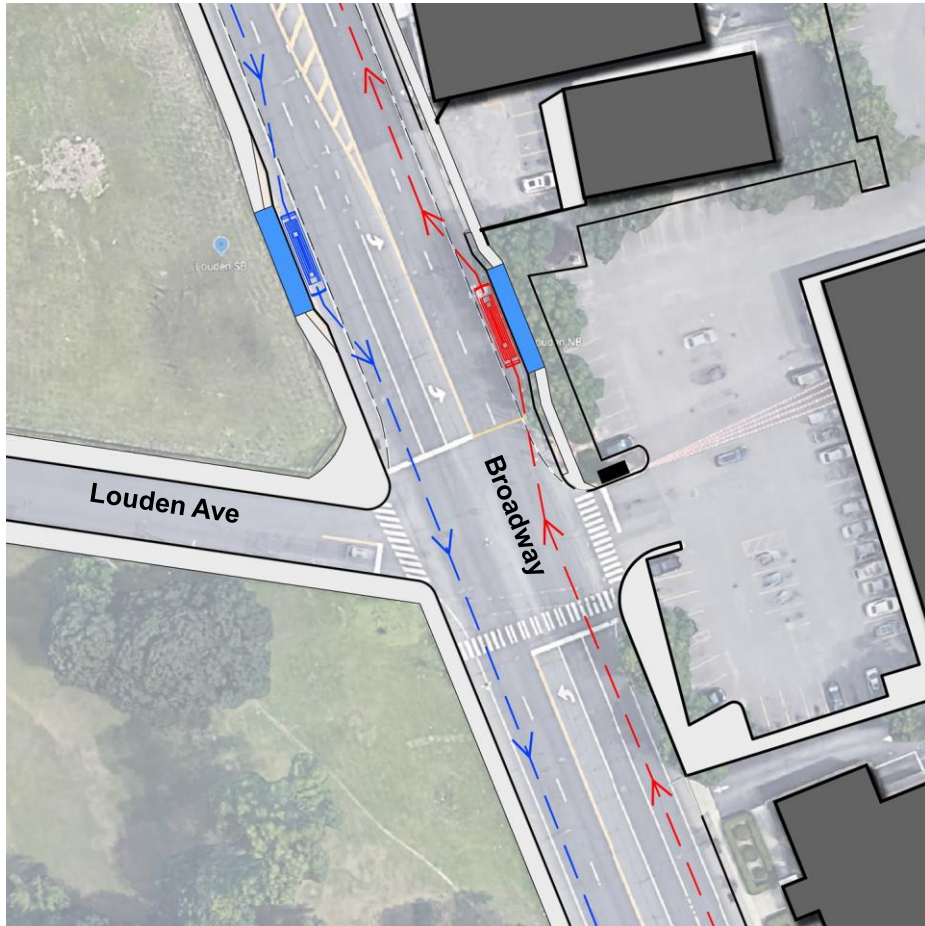


# Harrison Avenue North Amityville



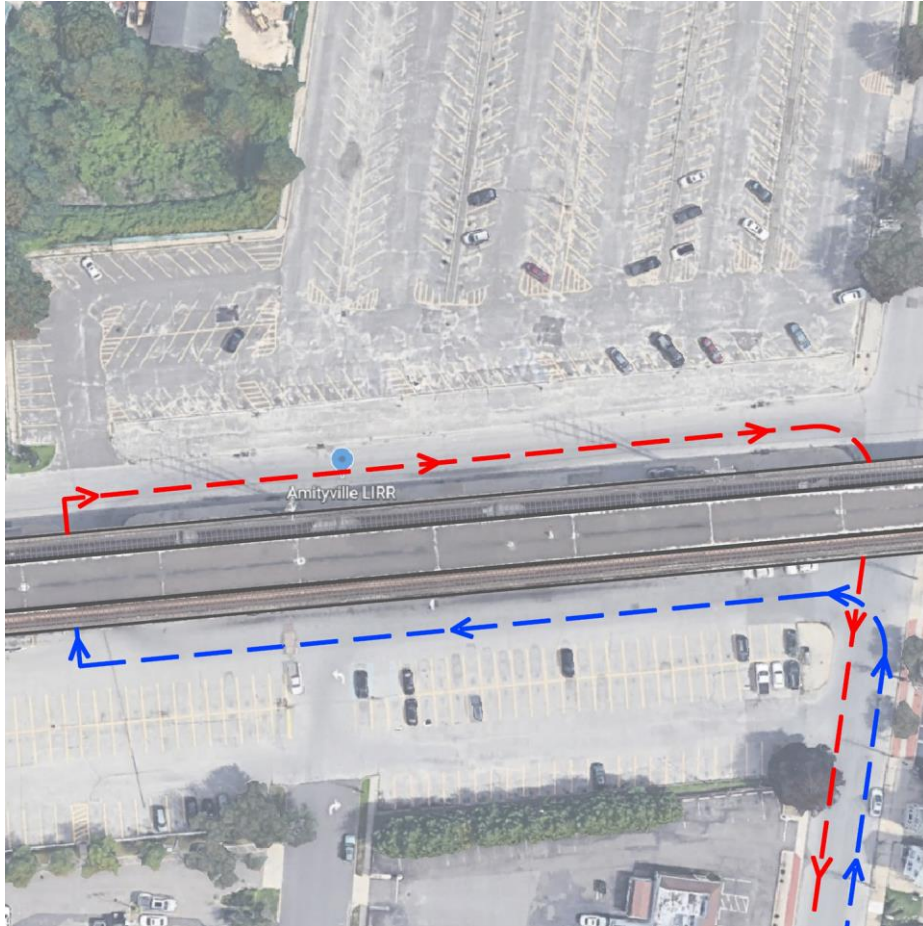


## Louden Avenue Amityville (New Development Site)





# Amityville LIRR Station



# Non-Motorized Modes & New Mobility Options



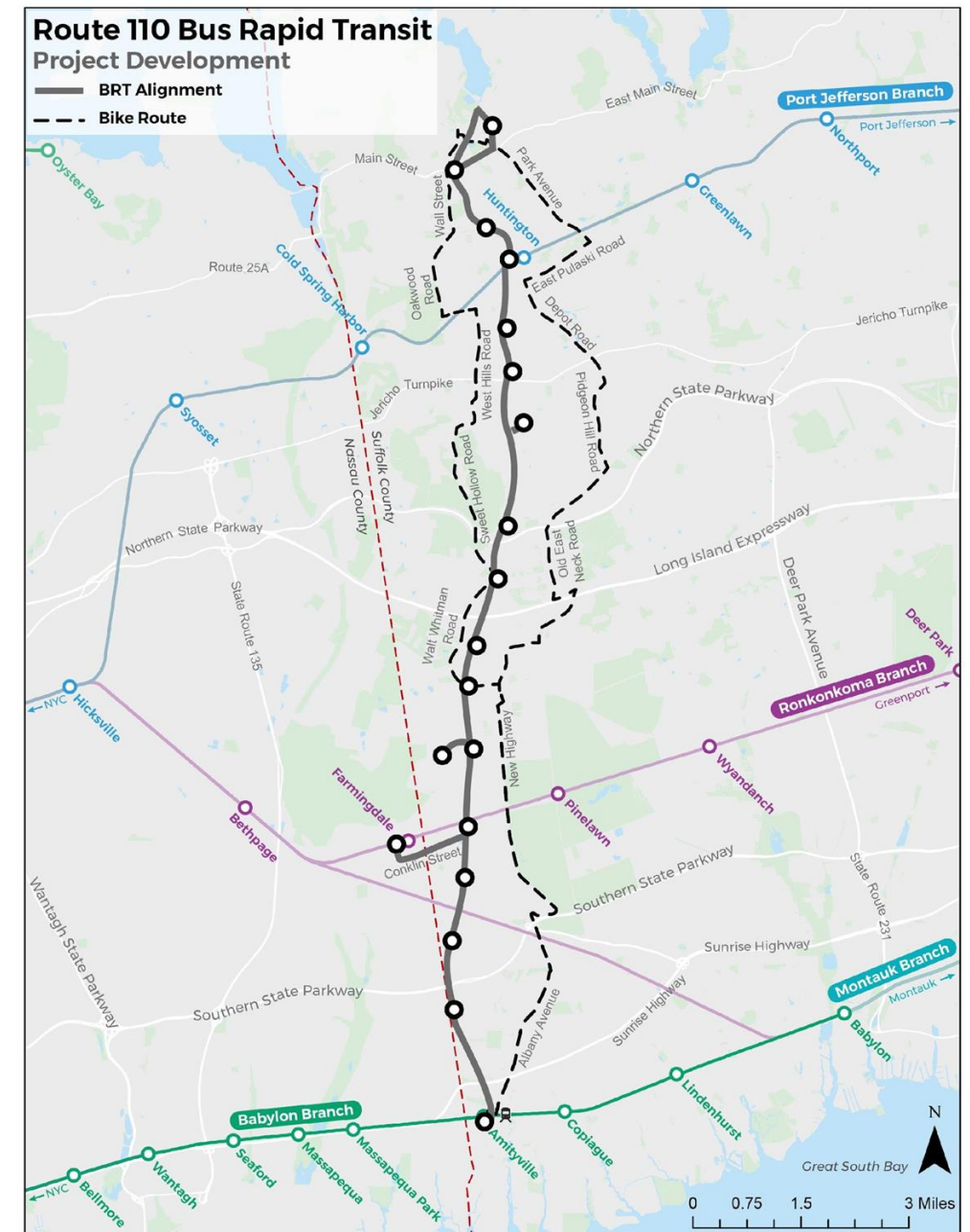
# Safe Pedestrian Access is Required at Every BRT Station

- A complete network of crossing improvements is needed at every station intersection (crosswalks, audible signals, median refuges, etc.)
- Complete sidewalks are needed connecting to key destinations and adjacent to BRT Lanes
- Work with NYSDOT, municipalities, and private property owners to improve the walk network (such as at office parks and big stores)
- Goal of Level Boarding at stations



# Project Bicycle Routes Map and Accessibility Goals

- The objective is to create safe bicycle routes parallel to Route 110 to connect to nearby jobs and other destinations
- Safe bicycle accessibility should be an important element of each station location
- Bike parking/storage at stations
- Bike racks on BRT vehicles





# Deploy New Mobility Options

New mobility options have become more widespread in recent years, and they offer better solutions for first mile/last mile connections along the Route 110 corridor.

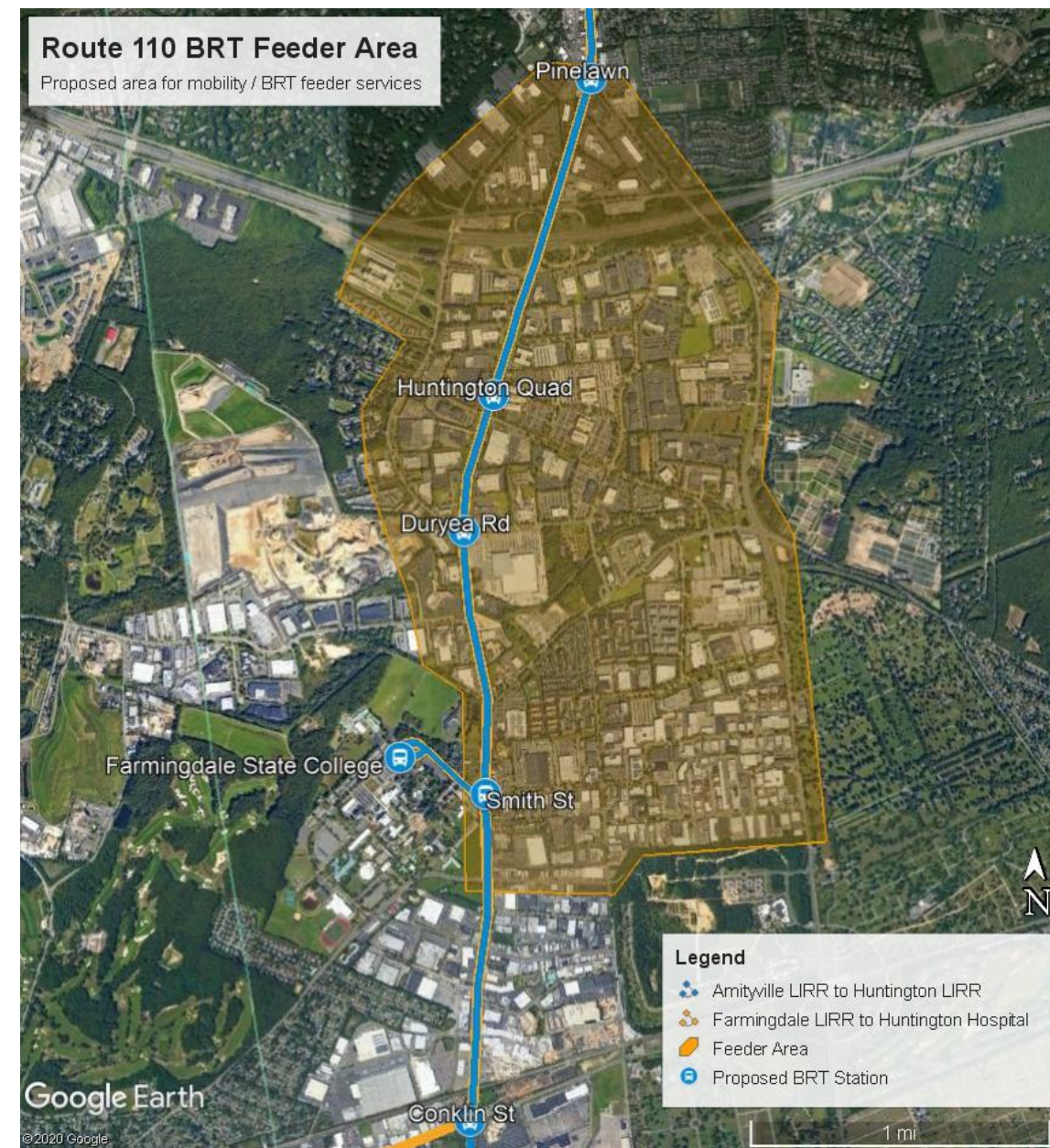
- Bike Network Development
- Bike Share
- E-Bikes / E-Scooters
- Mobility-as-a-Service
- Transportation Network Companies (e.g. Uber/ Lyft)
- Microtransit



# New Mobility Goals and Requirements

New mobility options should be...

- Readily accessible
- Available within a reasonable amount of time from request
- Efficient and affordable
- Encouraged and supported by employers and landlords
- Fare-integrated with Suffolk Transit and the LIRR
- ADA Compliant
- Safe to commuters, even after dark
- Available to people without smart phones







# Ongoing Coordination and Outreach



# Ongoing Stakeholder/ TAC Coordination

- Federal Transit Administration
- NYS Department Of Transportation
- **Technical Advisory Committee**
- Towns and Villages
- LIRR/NICE/HART
- Nassau County
- Huntington Hospital
- Farmingdale State College
- Bus Customers
- General Public



# Next Steps



# Next Steps

- Continue coordination with Federal Transit Administration
- Continue public and stakeholder engagement
- Continue to work with NYSDOT to:
  - Validate viability of shoulder-running sections
  - Confirm locations for TSP and Queue Jumps
- Complete environmental review for expected Categorical Exclusion C
- Complete Preliminary Engineering

# Questions