

PRESENTATION OVERVIEW



Background

Growth in Cycling
L Train Shutdown
Neighborhood Connectivity
Proposal Overview

Williamsburg Bridge Approach

S 5th St, S 5th PI, S 4th St, Borinquen PI

Scholes St, Meserole St Connections

S 3rd St, Scholes St, S 4th St, Meserole St

Summary

NYC MOBILITY

Recent Travel Trends (2010-2015)



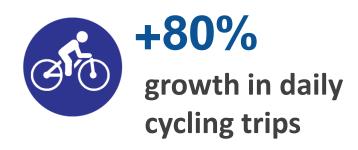


new jobs





Biking provides an <u>efficient</u> and <u>affordable</u> transportation option for a growing city



GROWTH IN CYCLING – Williamsburg Bridge

83% increase in bike commuting in Brooklyn 2010-2015

An average of **7,580** cyclists used the Williamsburg Bridge every day in 2016 - an increase of 13% compared to 5 years ago

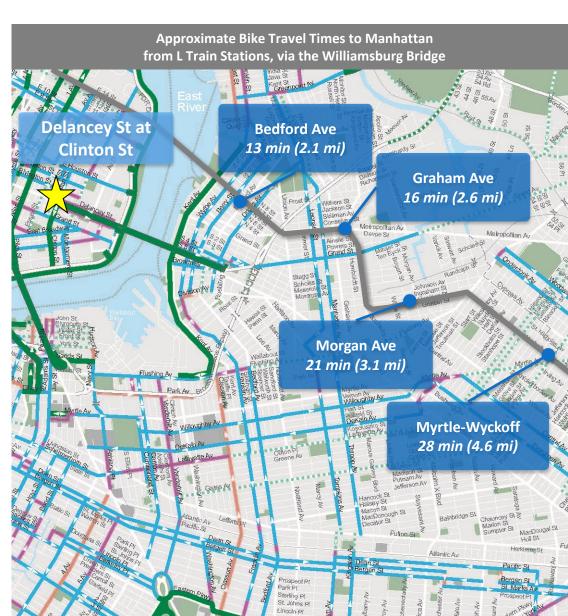


GROWTH IN CYCLING – L Train Shutdown

Substantial increase in bike ridership on Williamsburg Bridge expected with closure of L line

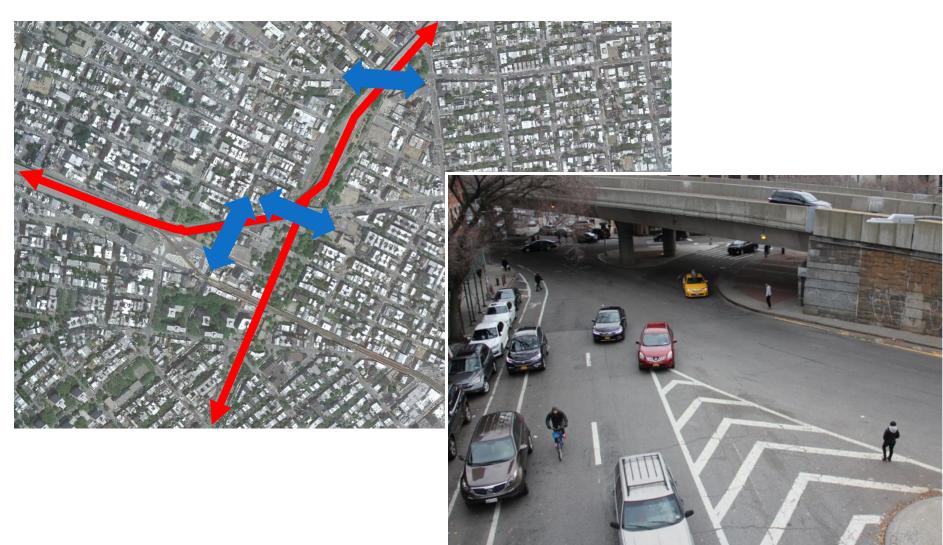
- During Hurricane Sandy, bike volumes on Manhattan Bridge increased 200-300%
- During the 2005 transit strike, bike volumes on the East River bridges more than quadrupled

Biking will provide a convenient alternative to transit for regular L train riders

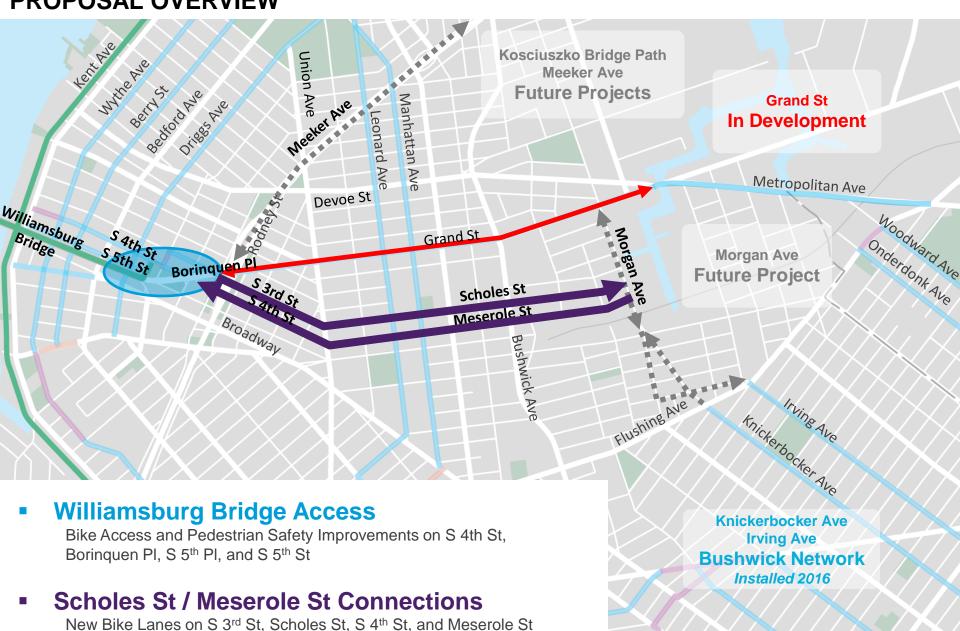


NEIGHBORHOOD CONNECTIVITY

Williamsburg Bridge structure, elevated Brooklyn-Queens Expressway and their associated ramps divide neighborhoods



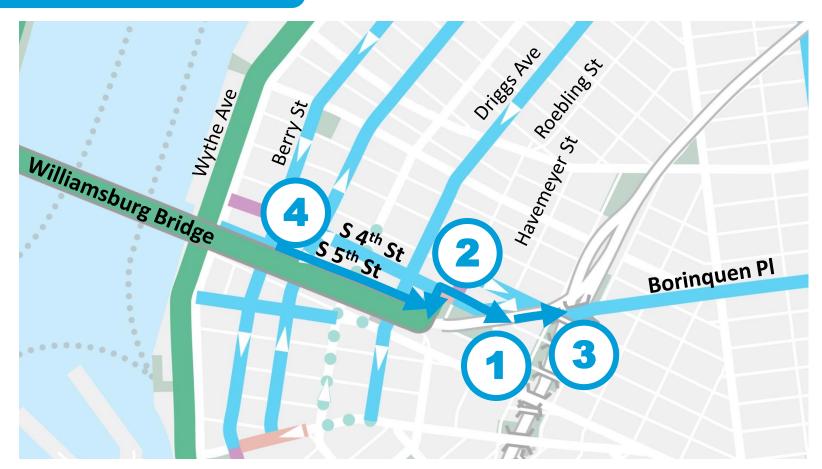
PROPOSAL OVERVIEW



Williamsburg Bridge Access

PROPOSED IMPROVEMENTS

- Intersection Safety
 Improvements at S 4th Pl,
 Havemeyer St and Borinquen Pl
 - Two-way Protected Bike Lane on S 5th Pl and S 4th St
- **3** Eastbound Bike Connection on Borinquen Pl Median
- Parking Protected Bike Lane on S 5th St

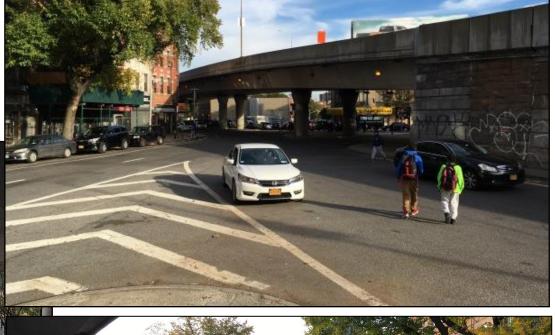


Intersection Safety
Improvements at S 4th St,
Havemeyer St and Borinquen Pl

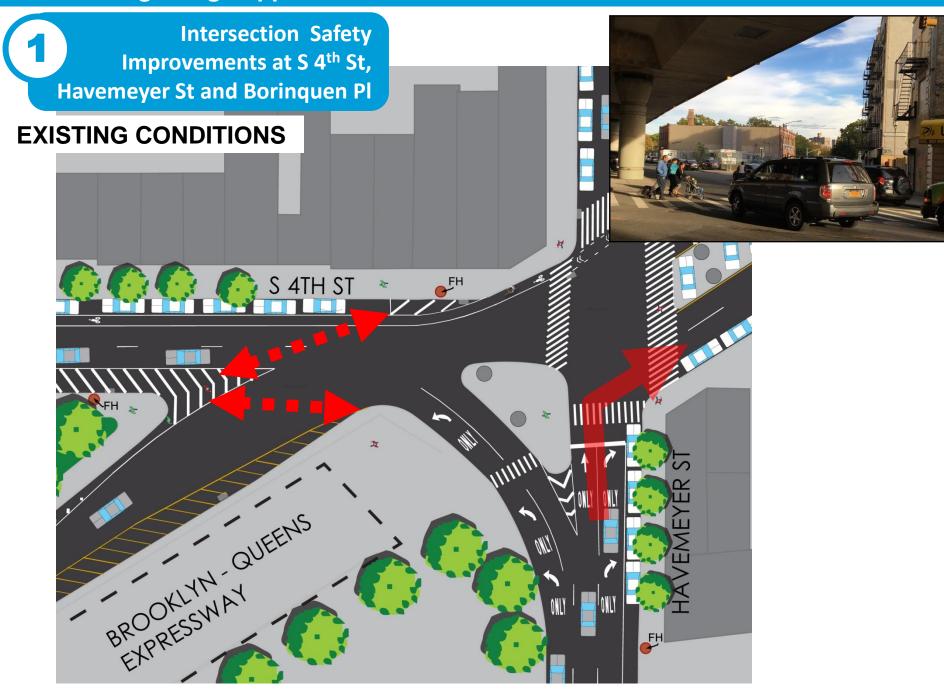
EXISTING CONDITIONS

Challenging intersection disconnects neighborhoods

- No pedestrian crossings at S 4th St and bridge entrance
- No direct connection for bikes from Williamsburg Bridge to Borinquen Pl/Grand St
- Double parking in existing bike lane
- Difficult to cross Borinquen PI due to heavy right turn







Intersection Safety
Improvements at S 4th St,
Havemeyer St and Borinquen Pl

PROPOSED IMPROVEMENTS

New signalized crossings at S 4th St and bridge entrance and signal timing changes at Havemeyer St create seamless pedestrian and bike connection through intersection

- New concrete pedestrian island, expanded refuge island and median
- Double right turn from Havemeyer St to Borinquen Pl on separate phase from pedestrian crossing
- Requires loss of 4 parking spaces during the PM peak, Monday to Friday, 2-7pm.





Two-way Protected Bike Lane on S 5th Pl and S 4th St

EXISTING CONDITIONS

Existing routes to bridge challenging, indirect

- Route to bridge requires challenging left turn from S 4th St to S 5th Pl and uses shared sidewalk on S 5th Pl resulting in
 - high bike volumes that conflict with pedestrians
 - high incidence of contraflow biking
- No eastbound connection on S 4th St to Borinquen PI/ Grand St, indirect route via Roebling St and S 3rd St





Two-way Protected Bike Lane on S 5th Pl and S 4th St

PROPOSED IMPROVEMENTS

Two-way protected path creates safe, direct connection to/from bridge, accommodates high bike volumes

- Parking protected on S 5th PI
- Jersey barrier protected / parking protected on S 4th St
- Reduces turning conflicts and bike-pedestrian conflicts
- Improved signal timing at S 4th St and Roebling St
- Requires loss of 2 parking spaces and left turn on S 4th St



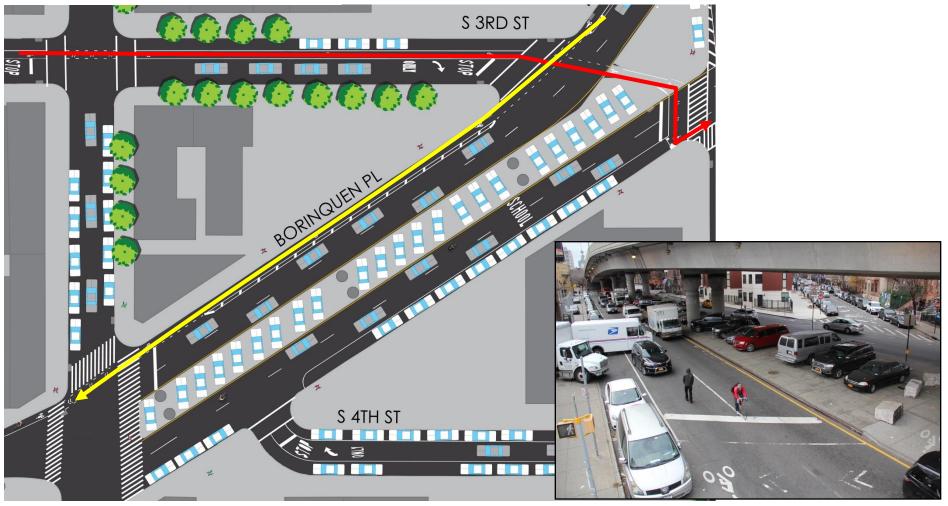


Eastbound Bike Connection on Borinquen Pl Median

Existing route on S 3rd St is indirect and has an uncontrolled crossing at Borinquen PI

- Indirect route leads to contraflow biking
- Proposed two-way protected bike lane on S 4th St would end at Havemeyer St and Boringuen PI
- Illegal parking along median disrupts neighborhood continuity, impairs pedestrian and bike movements

EXISTING CONDITIONS



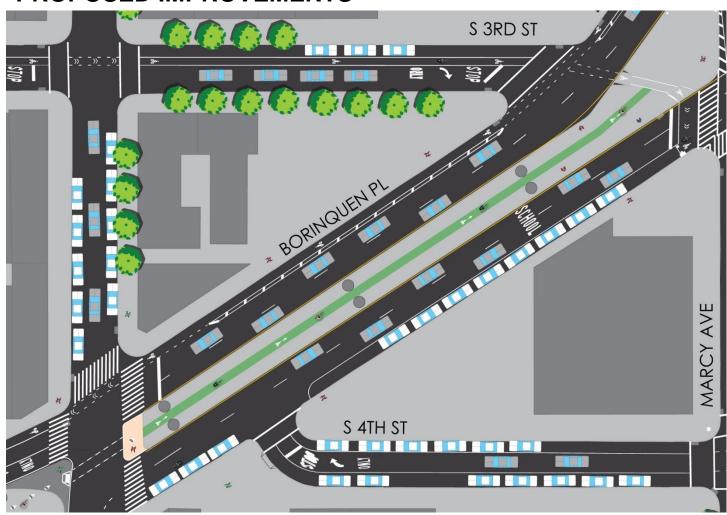


Eastbound Bike Connection on Borinquen Pl Median

New eastbound bike path along Borinquen PI median creates safe, direct connection from bridge and S 4th St to Borinquen PI/Grand St

- Eliminates illegal parking along median
- Opportunity to reimagine public space

PROPOSED IMPROVEMENTS





Potential for DOT Art on Borinquen Pl Median







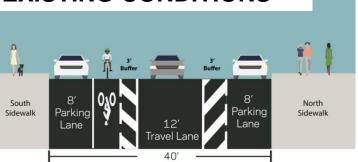


Parking Protected Bike Lane on S 5th St

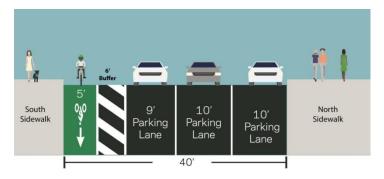


Berry St to Driggs Ave

EXISTING CONDITIONS



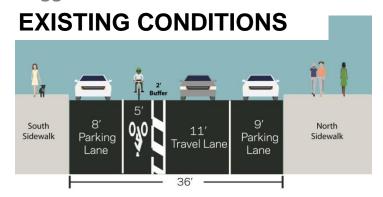
PROPOSED IMPROVEMENTS



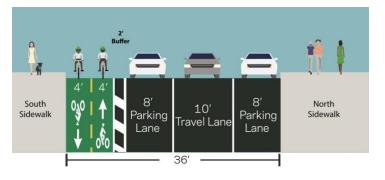
Parking protected bike lane creates stronger western connection to and from bridge path

- Parking protected eastbound lane connects Berry St to bridge path
- Parking protected two-way path connects bridge path to Driggs St
- Requires the loss of 3 parking spaces

Driggs Ave to S 5th PI



PROPOSED IMPROVEMENTS

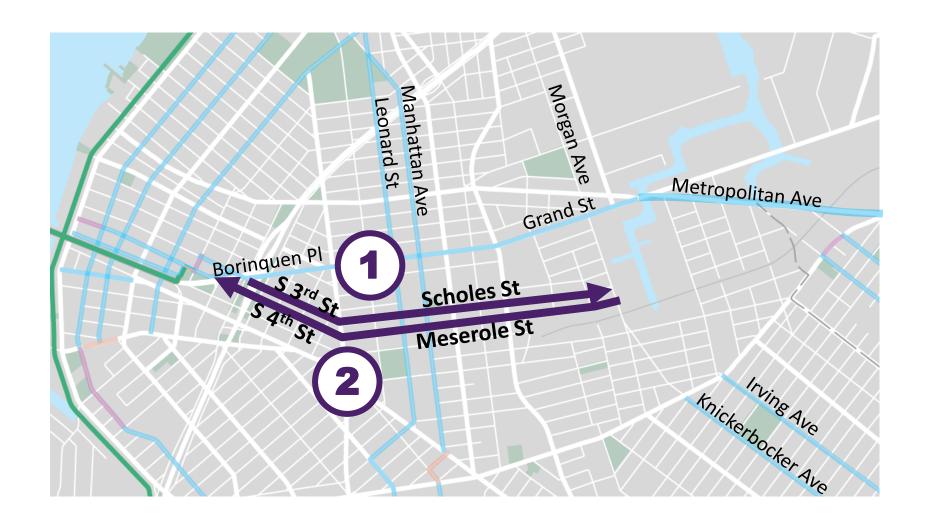




PROPOSED IMPROVEMENTS

Eastbound Bike Lane on S 3rd St and Scholes St

Westbound Bike Lane on Meserole St and S 4th St

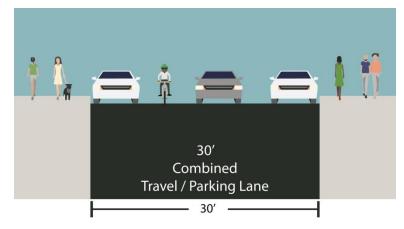




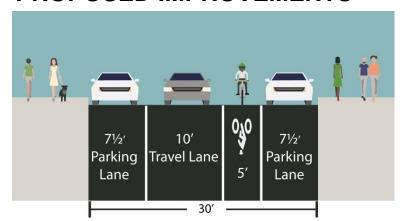
Eastbound Bike Lane on S 3rd St and Scholes St

Borinquen PI to Leonard St Bushwick Ave to Morgan Ave

EXISTING CONDITIONS



PROPOSED IMPROVEMENTS



Bike lanes create new connection from bridge to East Williamsburg and Bushwick

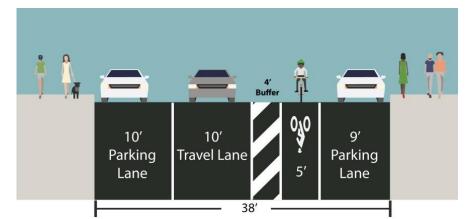
- Organize roadway, calm traffic
- Provide dedicated space for cyclists
- · No impact on capacity or parking

Leonard St to Bushwick Ave

EXISTING CONDITIONS



PROPOSED IMPROVEMENTS





Westbound Bike Lane on Meserole St and S 4th St

Shared lanes and bike lanes create from East Williamsburg and Bushwick to bridge

- Organize roadway, calm traffic
- Provide dedicated space for cyclists where feasible
- No impact on capacity or parking

Morgan Ave to Bushwick Pl

EXISTING CONDITIONS

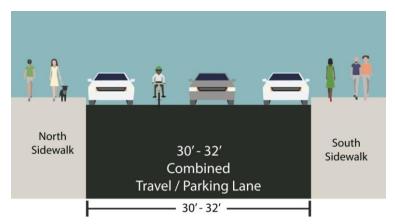


PROPOSED IMPROVEMENTS

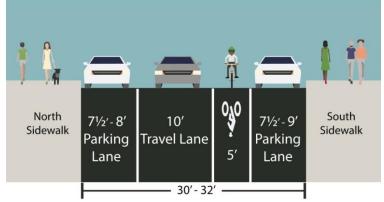


Bushwick PI to Borinquen PI

EXISTING CONDITIONS

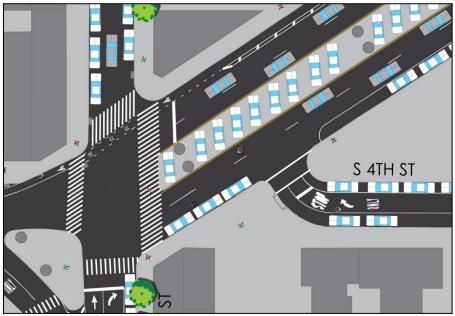


PROPOSED IMPROVEMENTS





EXISTING CONDITIONS

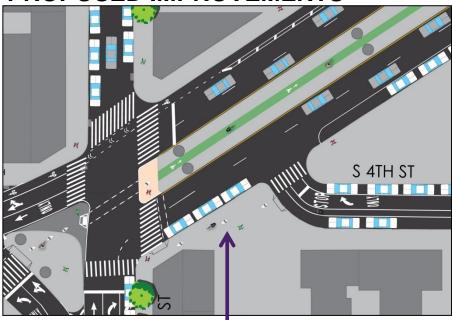




Connection to Borinquen PI

- Use wide sidewalk on south side of Borinquen PI to access signalized intersection and cross to westbound bike lane
- Discourages contraflow riding
- Requires the removal of 1 parking space

PROPOSED IMPROVEMENTS



Bike Stamps

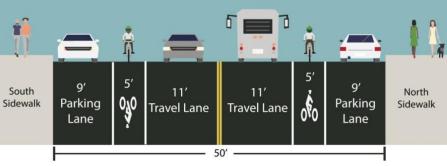
L Train Shutdown

Grand Street

- A plan will be submitted this year once input from workshops is synthesized
- Will be part of a larger roll out of L train mitigation



EXISTING CONDITIONS – Grand St





Summary



Summary

BENEFITS OF DESIGN ELEMENTS

Roadway markings Vehicles

- Organize the roadway
- Improves safety
- Improve alignment, and visibility
- Establish standard width; discourage speeding

Cyclists

- Dedicated space for cyclists
- Increase predictability of cyclists location
- Direct connections to existing network
- Provide wayfinding

Refuge islands, painted neck downs, and high visibility crosswalks

- Creates shorter, safer pedestrian crossings
- Creates new pedestrian crossings
- Improves alignment at intersections
- Discourage drivers from encroaching into crosswalk



Questions?

THANK YOU!

