

2ND AVE E 68TH ST TO 59TH ST PEDESTRIAN AND BIKE NETWORK IMPROVEMENTS

New York City Department of Transportation

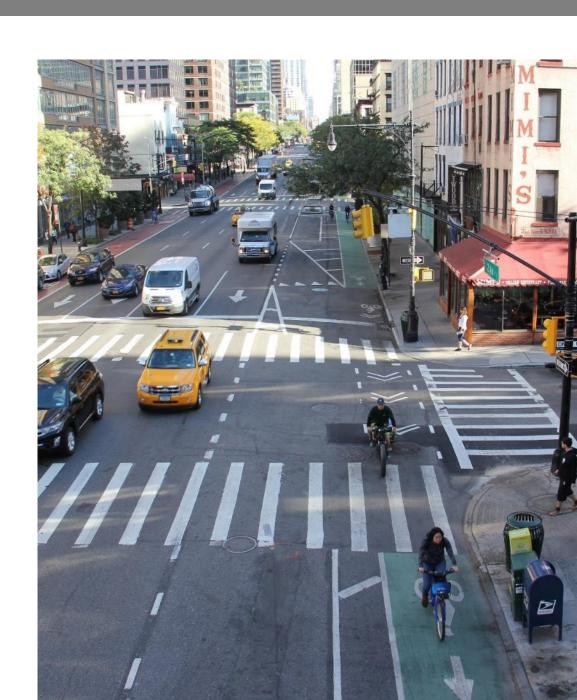
Presented to Community Board 6 by the Bicycle and Greenway Program on September 4, 2018





OVERVIEW

- 1. Protected Bike Network Implementation Update
- Evaluation of Off-Peak
 Protected Bike Lane
 (2nd Ave, 52nd to 43rd Streets)
- 3. Filling the Gaps
- 4. Proposal: Bridge (2nd Ave, 68th to 59th Streets)
- 5. Update: Tunnel(2nd Ave, 43rd to 34th Streets)
- 6. Next Steps



Protected Bike Network Implementation Update



EAST SIDE PROTECTED BIKE LANE NETWORK



Northbound: 1st Ave

 Continuous 9-mile protected bike lane connecting Brooklyn, Manhattan and the Bronx

Southbound: 2nd Ave

- Challenges to creating continuous protected bike lane:
 - 2nd Ave Subway construction
 - High traffic volumes approaching Queensboro Bridge and Midtown Tunnel

2ND AVENUE EXISTING BIKE FACILITIES



PROTECTED BIKE LANE

96 St – 88 St 2016 (MTA)

88 St – 82 St Functional, not yet completed (MTA)

82 St to 74 St 2016 (DOT)

74 St – 68 StFunctional, not yet completed (MTA)

ENHANCED SHARED LANE

68 St – 59 St Bridge Fall 2016/17 (MTA/DOT)

CB 6

CB 8

PROTECTED BIKE LANE

59 St – 43 St: 2017 (DOT)

52 St – 43 St: Off-peak Protected Bike Lane Design 2017 (DOT)

ENHANCED SHARED LANE

43 St – 34 St Tunnel 2011 (DOT)

BIKE VOLUMES ARE GROWING

Bike Counts on 2nd Ave:

+105% (2015-2017)



Bicycle Volume Data: Average of three 12-hr (7AM-7PM) counts conducted on weekdays in May, July, and September for each year reported.



In the third quarter of 2017 699,000 Citi Bike trips either started or ended in CB 6 and CB 8



On Average,
5,406 cyclists
use the
Queensboro
Bridge
bike lane daily
(between April and
October)

SAFETY CONCERNS



2nd Ave is a Vision Zero Priority Corridor



2 Ave, 68 St – 59 St

Injury Summary, 2012-2016 (5 years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	87	9	0	9
Bicyclists	32	1	0	1
Motor Vehicle Occupant	244	16	0	16
Total	363	26	0	26

Fatalities, 01/01/2012 - 03/19/2018: None

2 Ave, 43 St – 34 St

Injury Summary, 2012-2016 (5 years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	118	11	0	11
Bicyclists	64	5	0	5
Motor Vehicle Occupant	194	7	0	7
Total	376	23	0	23

Fatalities, 01/01/2012 - 03/19/2018: None

Source: Fatalities: NYCDOT. Injuries: NYSDOT. KSI: Persons killed or severely injured

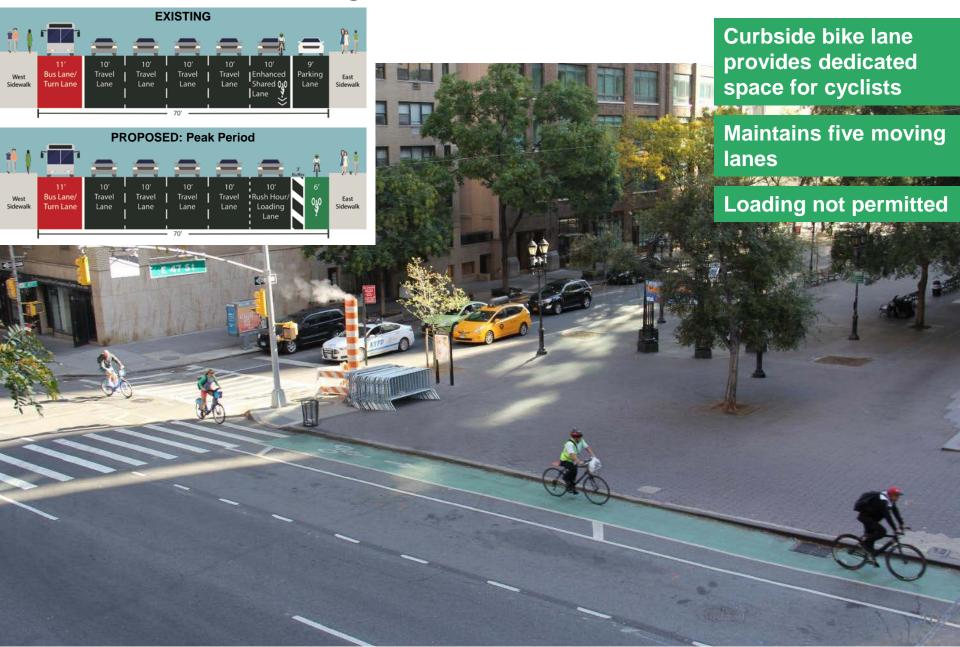
Evaluation of Off-Peak Protected Bike Lane Design



BEFORE: 2 AVE, 52 ST – 43 ST



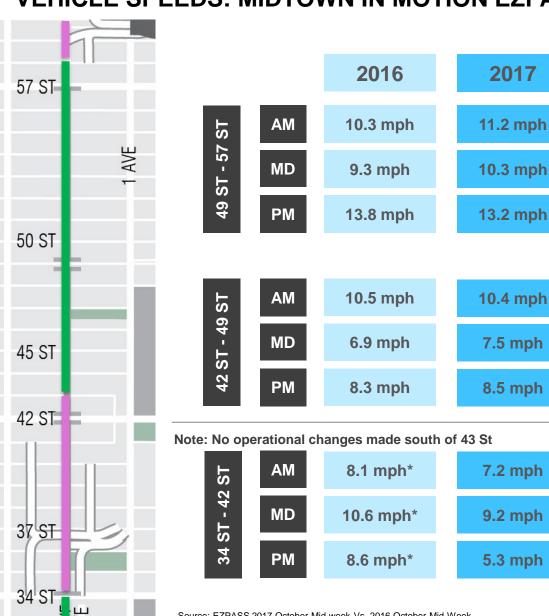
AFTER: Peak Period Design



AFTER: Off-Peak Design



VEHICLE SPEEDS: MIDTOWN IN MOTION EZPASS DATA



Data show no significant change to average vehicle speeds in the project area (2nd Ave 59th St to 43rd St)

Overall, average motor vehicle speeds on streets in Midtown Manhattan decreased during this same time period**

Source: EZPASS 2017 October Mid-week Vs. 2016 October Mid-Week.

BLOCKING OF BIKE LANE: TIME LAPSE CAMERA OBSERVATIONS



Data collected in August, September 2017. Mid-week days from 7AM-10AM

TLC200 2017/09/12 08:02:24

Bike Lane Blockages

Locations	43 St	44 St	45 St	46 St	48 St	50 St
Video Analyzed (Days)	5	5	6	9	12	9
Video Analyzed (Minutes)	1,200	1,200	1,440	2,160	2,880	2,160
Number of Times Bike Lane was Blocked	26	13	20	3	9	6
Total Time Bike Lane was Blocked in Minutes	81	48	86	21	46	36
Percentage of Time Bike Lane was Blocked	6.8%	4.0%	6.0%	1.0%	1.6%	1.7%

Bike lane is clear 97% of the time

No Stopping Left Turn Area Blockages

Locations	43 St	44 St	45 St	46 St	48 St	50 St
Video Analyzed (Days)		5		9	12	9
Video Analyzed (Minutes)		1,200		2,160	2,880	2,160
Number of Times No Stopping LT was Blocked		29		15	61	14
Total Time No Stopping LT was Blocked in Minutes		454		72	1,380	201
Percentage of Time No Stopping LT was Blocked		37.8%		3.3%	47.9%	9.3%

Left Turn Area is clear 75% of the time

BIKE VOLUMES: BEFORE/AFTER COUNTS

Off-Peak Protected Bike Lane installed on 2nd Ave, 59 St to 43 St in Spring/Summer 2017



+36% increase in cycling (2015-2017)



Bicycle Volume Data: Average of three 12-hr (7AM-7PM) counts conducted on weekdays in May, July, and September for each year reported.

Proposal



Proposal

CORRIDOR: EXISTING CONDITIONS



High Traffic Volume

High volume especially approaching bridge and tunnel



Curb Access/ Parking

Commercial un/loading, drop-off/pick-up of passengers



Heavily Used Cycling Route

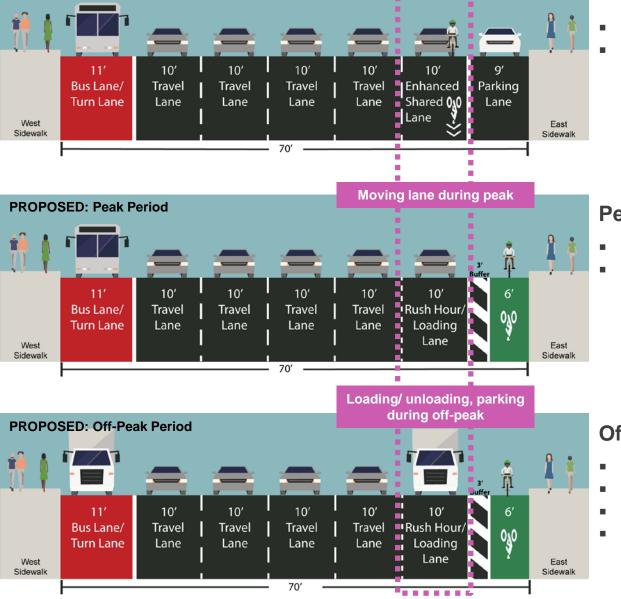
No dedicated space for cyclists

Gap in the protected bike network

EXISTING

CORRIDOR: PROPOSED DESIGN (68th – 60th St)

Shared Lane



Gap in the Protected Bike Network

- No dedicated space for cyclists
- Enhanced shared lane breaks down during peak hour

Peak Period (7am - 10am, 3pm - 8pm)

- Curbside buffered bike lane
- Maintains vehicular capacity

Off-Peak Period

- Parking protected bike lane
- Traffic calming
- East curb access (loading/unloading)
- West curb access (loading/unloading) when bus lane not in effect

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QUEENSBORO BRIDGE: EXISTING CONDITIONS

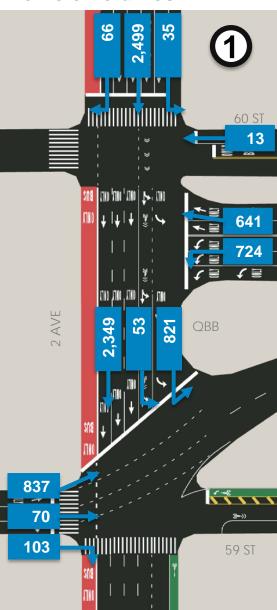
Complex intersection

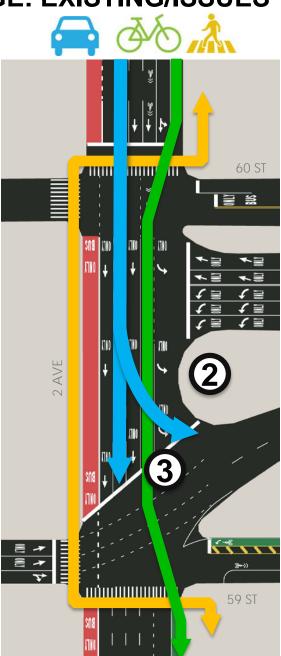
- High, constant vehicle volumes
- Limited pedestrian and bicycle access



QUEENSBORO BRIDGE: EXISTING/ISSUES

Vehicle Volumes:

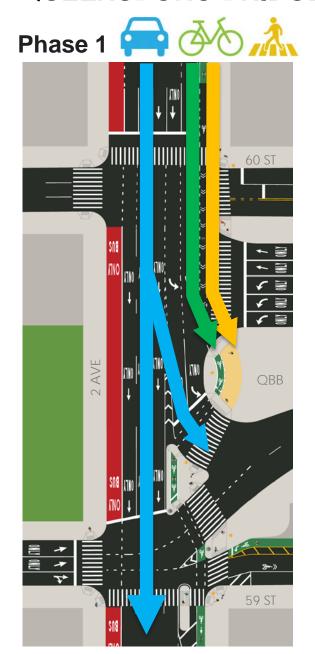


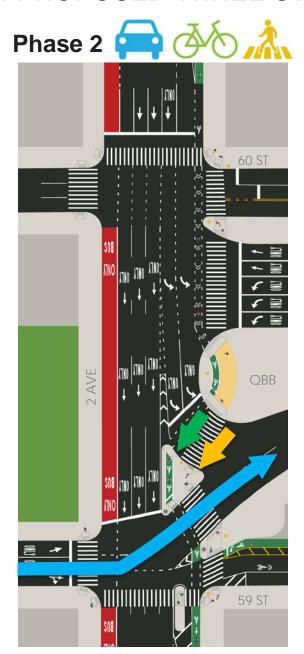


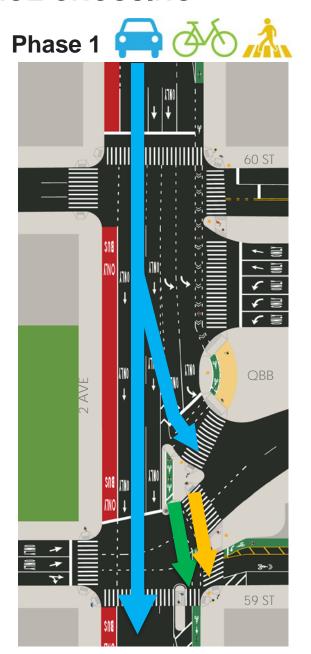
High volumes throughout the day

- No pedestrian and bike crossing on east side from 60th and 59th St
- Southbound cyclists forced to merge turning vehicles to continue traveling through

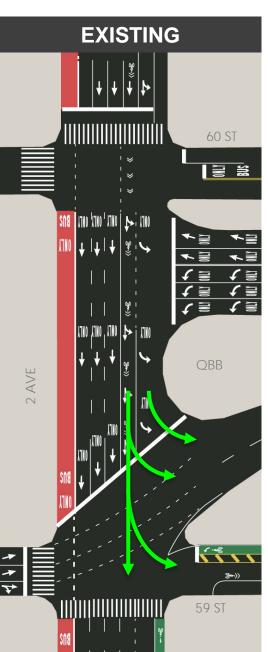
QUEENSBORO BRIDGE: PROPOSED THREE STAGE CROSSING

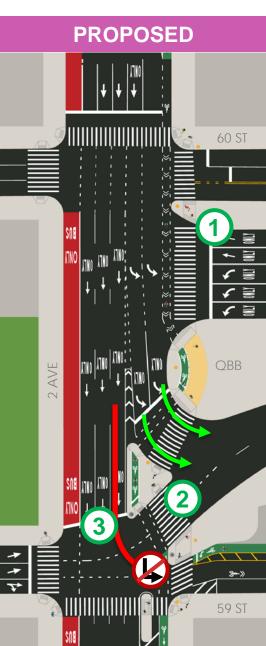






QUEENSBORO BRIDGE: PROPOSAL





- 1 Add pedestrian and bicycle crossing
 - Allows pedestrian crossing along east side
 - Closes the gap on the protected bike network on 2nd Ave
- 2 Add concrete island and tip extension
 - Shorter pedestrian and bicycle crossing that works with signal timing
- 3 Change in lane configuration

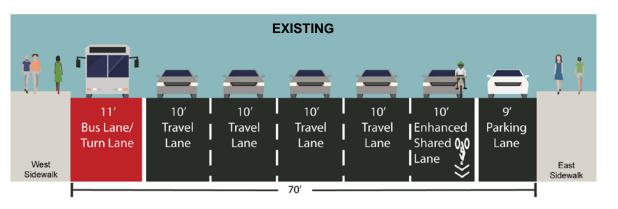
Existing:

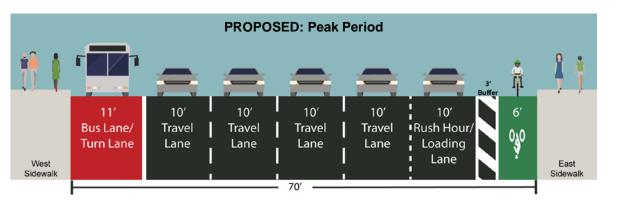
- 3 SB through
- 1 sharedSB/left lane
- 1 left lane onto QBB

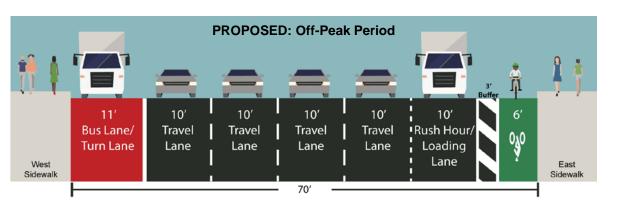
Proposed:

- 3 SB through
- 2 left lanes onto QBB
- No left turn from 2nd Ave onto 59th St
- 4 No change to signal timing

PROPOSED DESIGN ELEMENTS AND BENEFITS







Continue existing lane south to 59th St

- Bike lane is now continuous from 125th to 43rd Street
- Shared lanes replaced with dedicated bile lanes at bridge

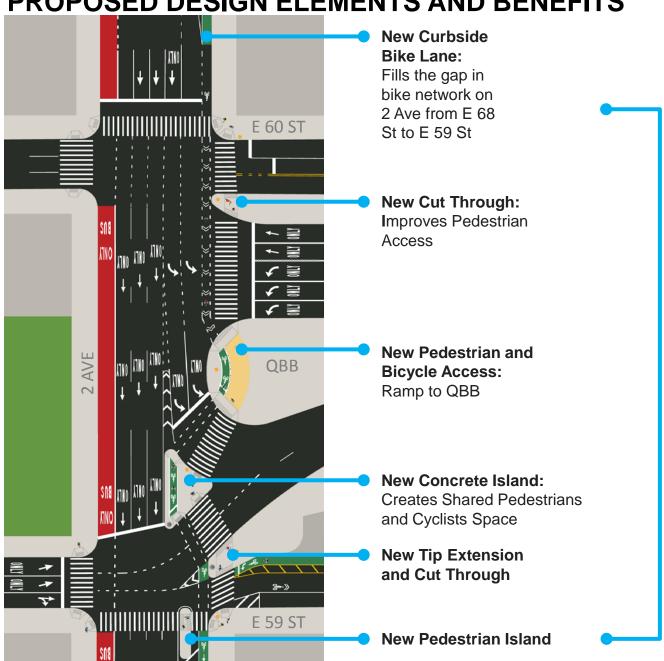
New pedestrian crossing at QB Bridge

 People can now walk continuously along east side

Minimize congestion impacts

 Signal timing remains the same, minimizing back-ups into surrounding streets

PROPOSED DESIGN ELEMENTS AND BENEFITS

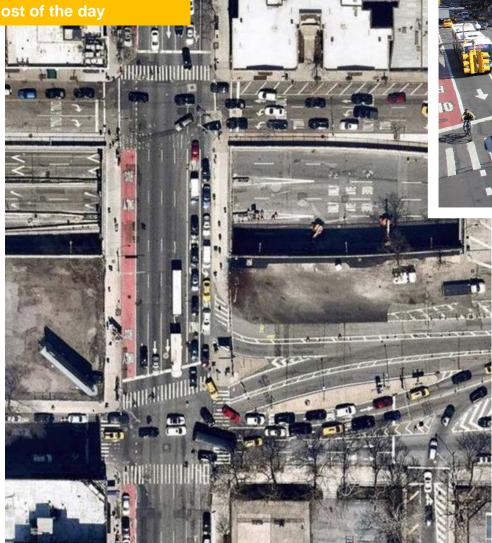


New Signal Infrastructure: (Same Signal Timing) Allows for pedestrians and cyclists to cross 2 Ave from E 60 St to E 59 St along the east side

QUEENS MIDTOWN TUNNEL: ISSUES

Complex intersection

High vehicular volume for most of the day





Ongoing MTA work around the Tunnel area

DOT is currently working with MTA to develop a plan

Next Steps



QUEENSBORO BRIDGE

- Project Development
 - Complete analysis and design of corridor during all traffic configurations
 - Finalize proposal for rush hour/parking regulations

Community Outreach

- Present finalized designs to
 - Elected Officials
 - Community Board 6 and 8

Implementation

Late 2018 / Early 2019

QUEENS MIDTOWN TUNNEL

- DEP capital work on 2nd Ave between 34th and 36th Streets
- DOT is working with MTA to develop a plan for the area
- Due to ongoing work and coordination efforts, facilities between 34th and 43rd Streets will not be implemented at the same time as QBB



THANK YOU!

Questions?









