

Northern Blvd – Honeywell to Broadway

Corridor Safety Improvements

2016

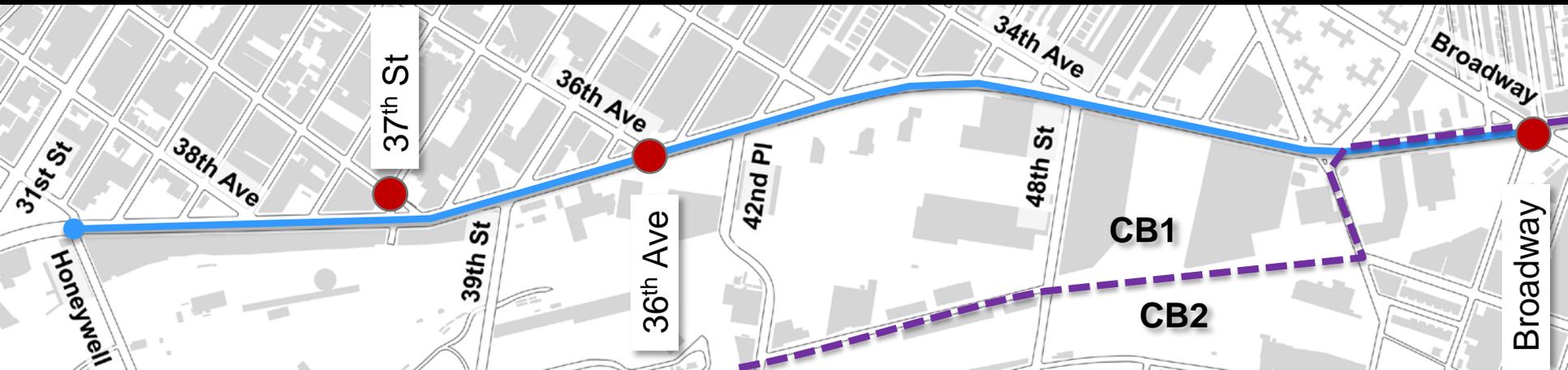


New York City Department of Transportation

Presented by Pedestrian Projects Group on January 19th, 2016 to Community Board 1 Transportation Committee

Background

- Request from Council Member Van Bramer for safety improvements at the intersection of Northern and Broadway
- Additional request from Council Member Van Bramer for improvements at 41st St/36th Ave/Northern Blvd
- Request from community member for improvements at the intersection of 37th St/37th Ave/Northern Blvd



Safety Data

- Northern Blvd is a Vision Zero Priority Corridor
- 22 KSI (Killed or Severely Injured) in the project area

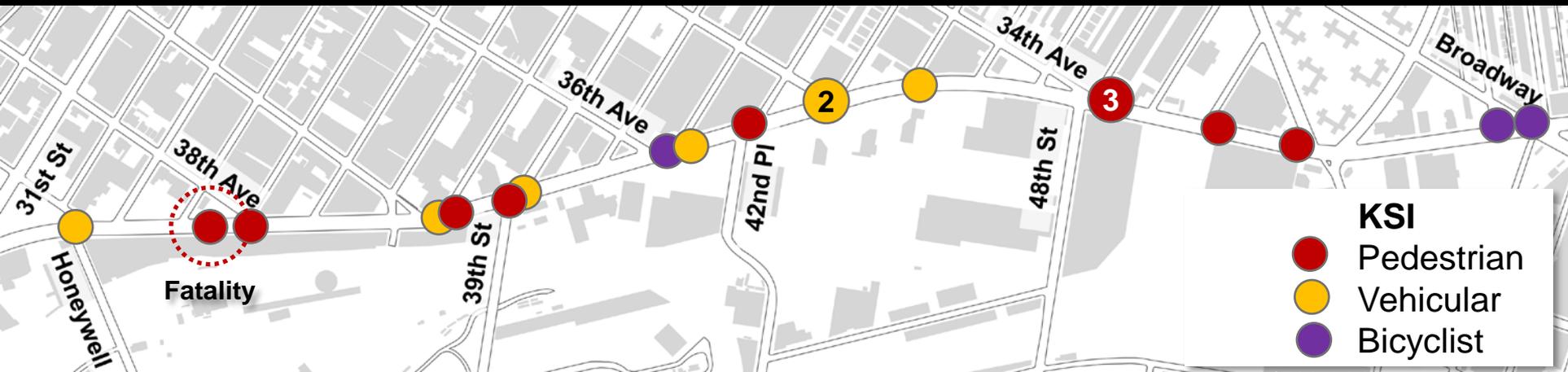
Northern Blvd - Honeywell St to Broadway, QN

Injury Summary, 2010-2014 (5 Years)

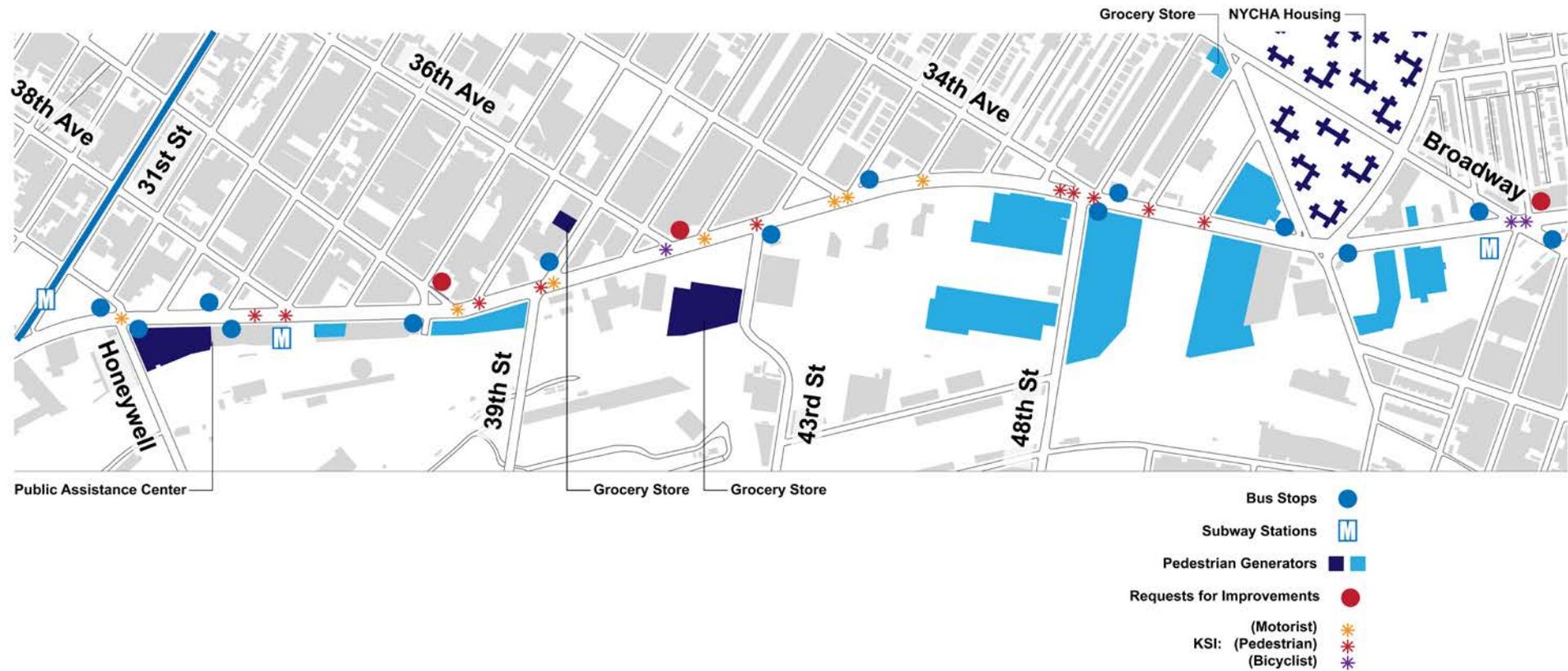
	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	43	9	1	10
Bicyclist	21	3	0	3
Motor Vehicle Occupant	265	9	0	9
Total	329	21	1	22

Fatalities, 01/01/2010-12/31/2016 : 1

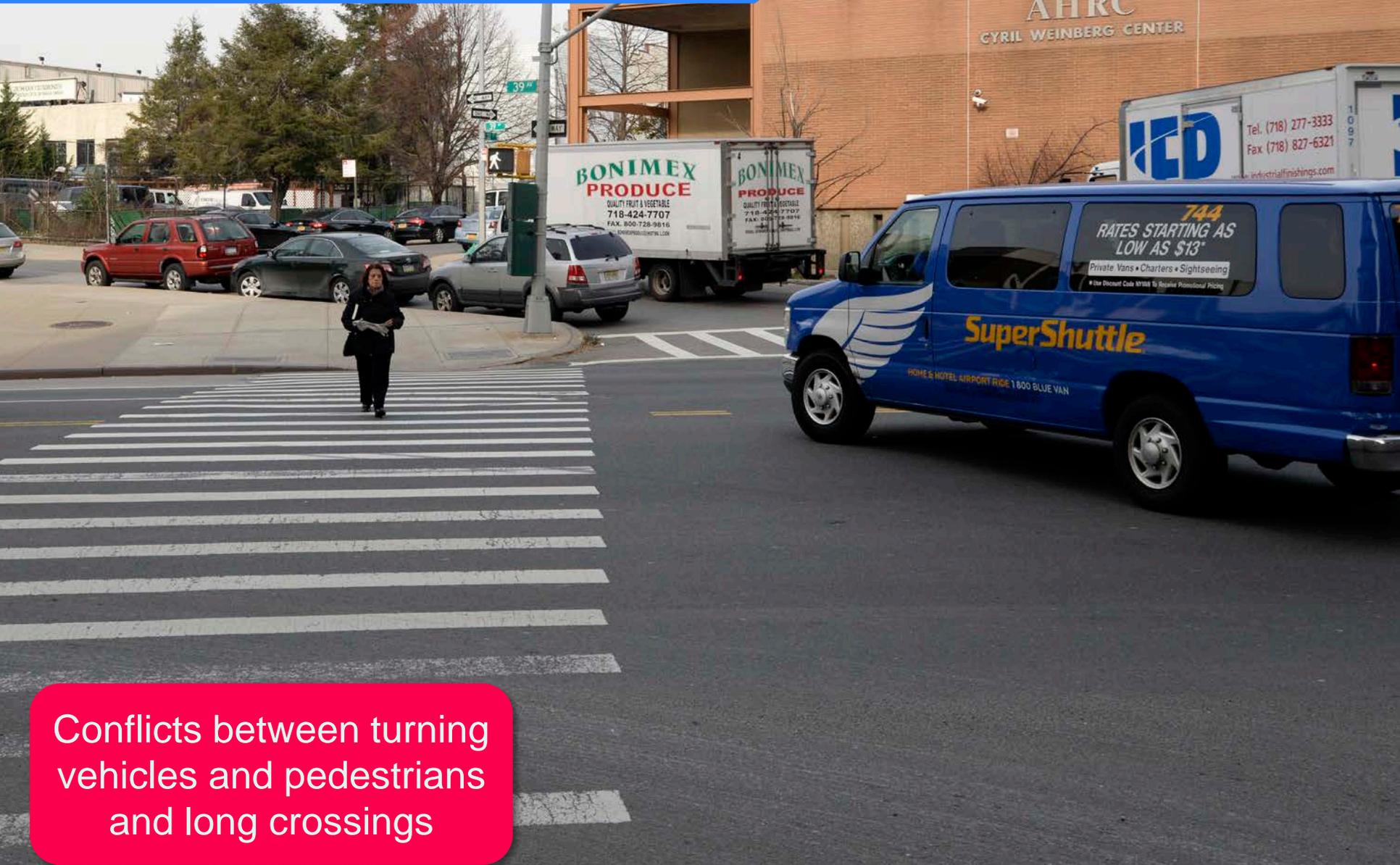
Source: Fatalities: NYCDOT
Injuries: NYSDOT
KSI: Persons Killed or Severely Injured



Context



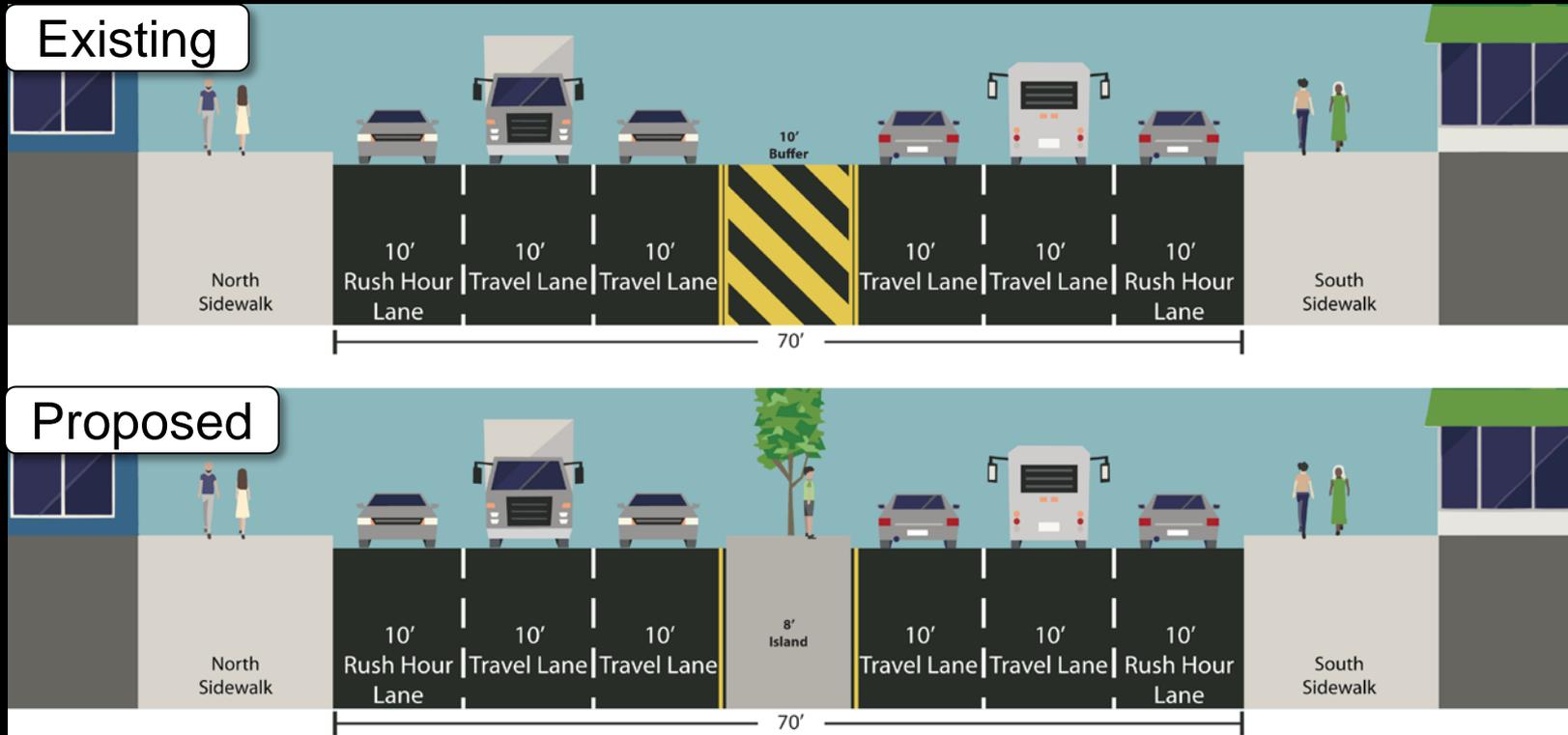
Primary Corridor Issue



Conflicts between turning vehicles and pedestrians and long crossings

Proposal

- Construct 15 pedestrian safety islands

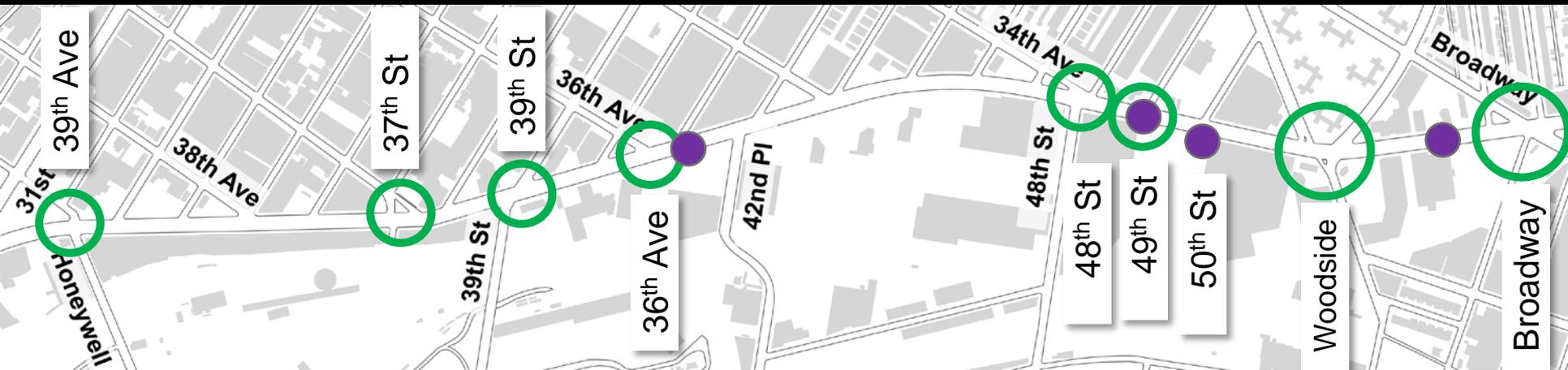


Proposal

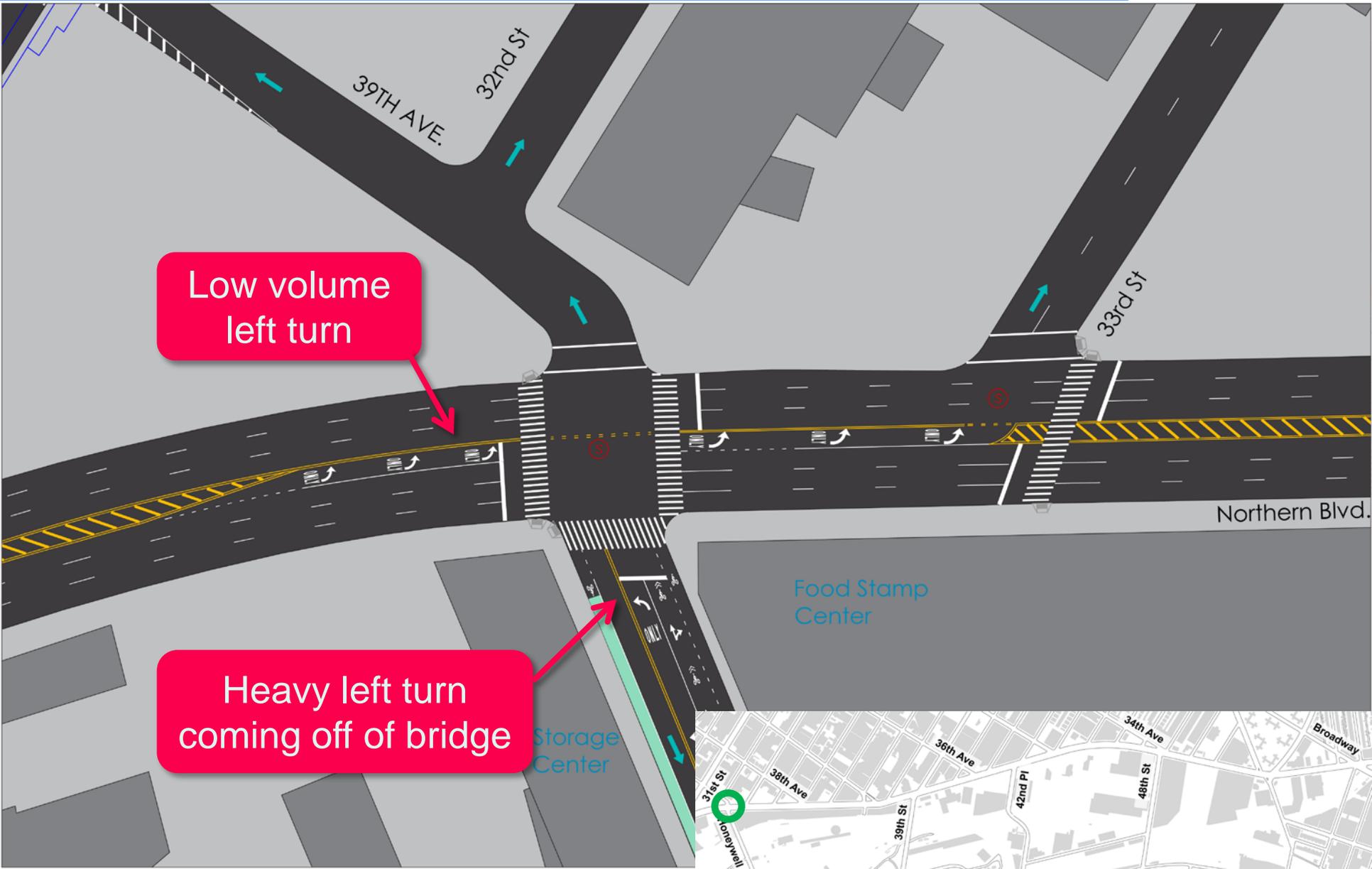
- Improve operations at 8 locations

- Investigating possibility for signal changes along the corridor:
 - LPI
 - All Pedestrian Phase
 - Split phase left turn

- Investigating sidewalk treatment where driveways are signalized



Existing Conditions – Honeywell St



Proposed Conditions – Honeywell St

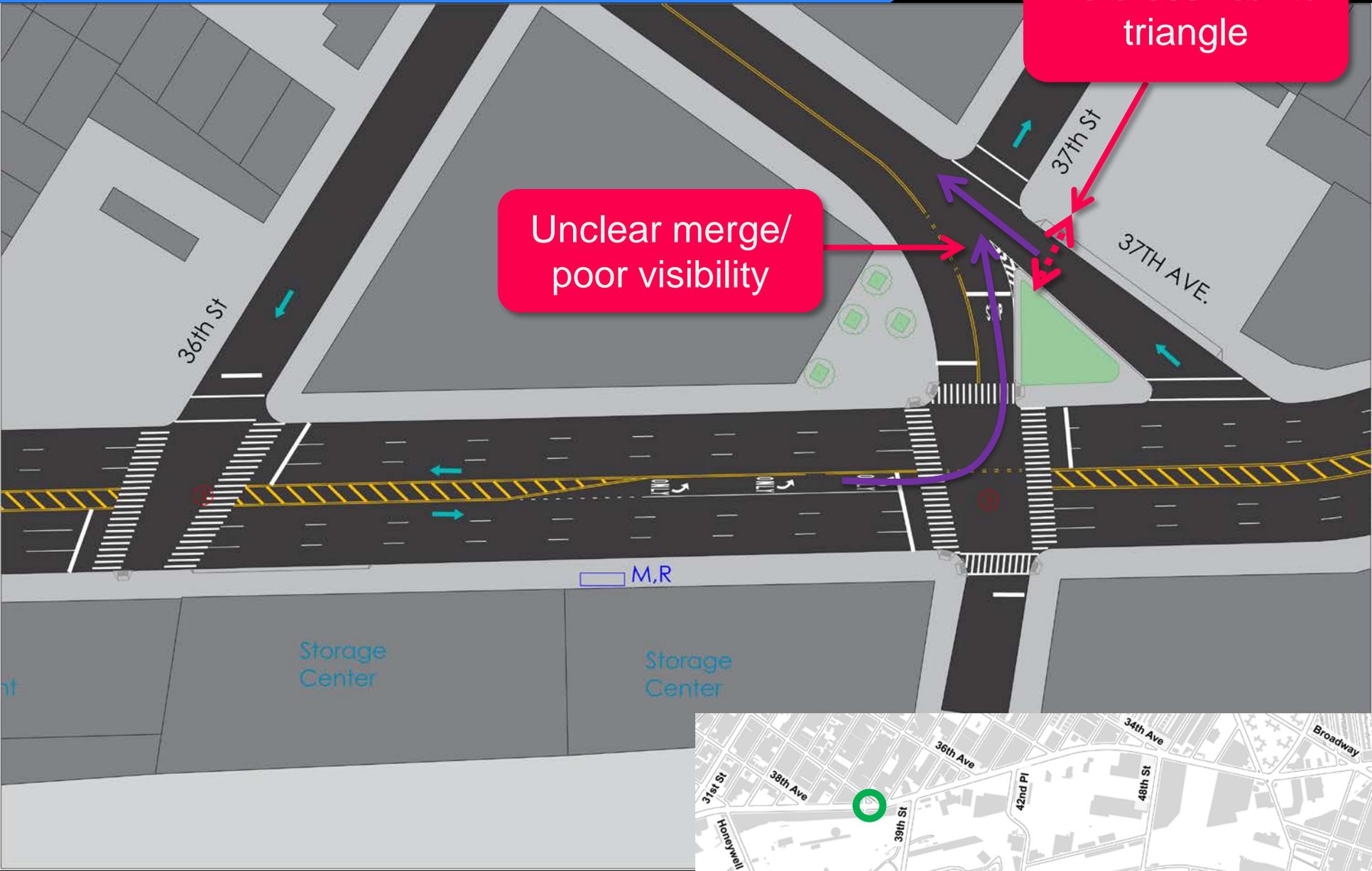
Close bay, ban turn and construct island

Construct island in channelization

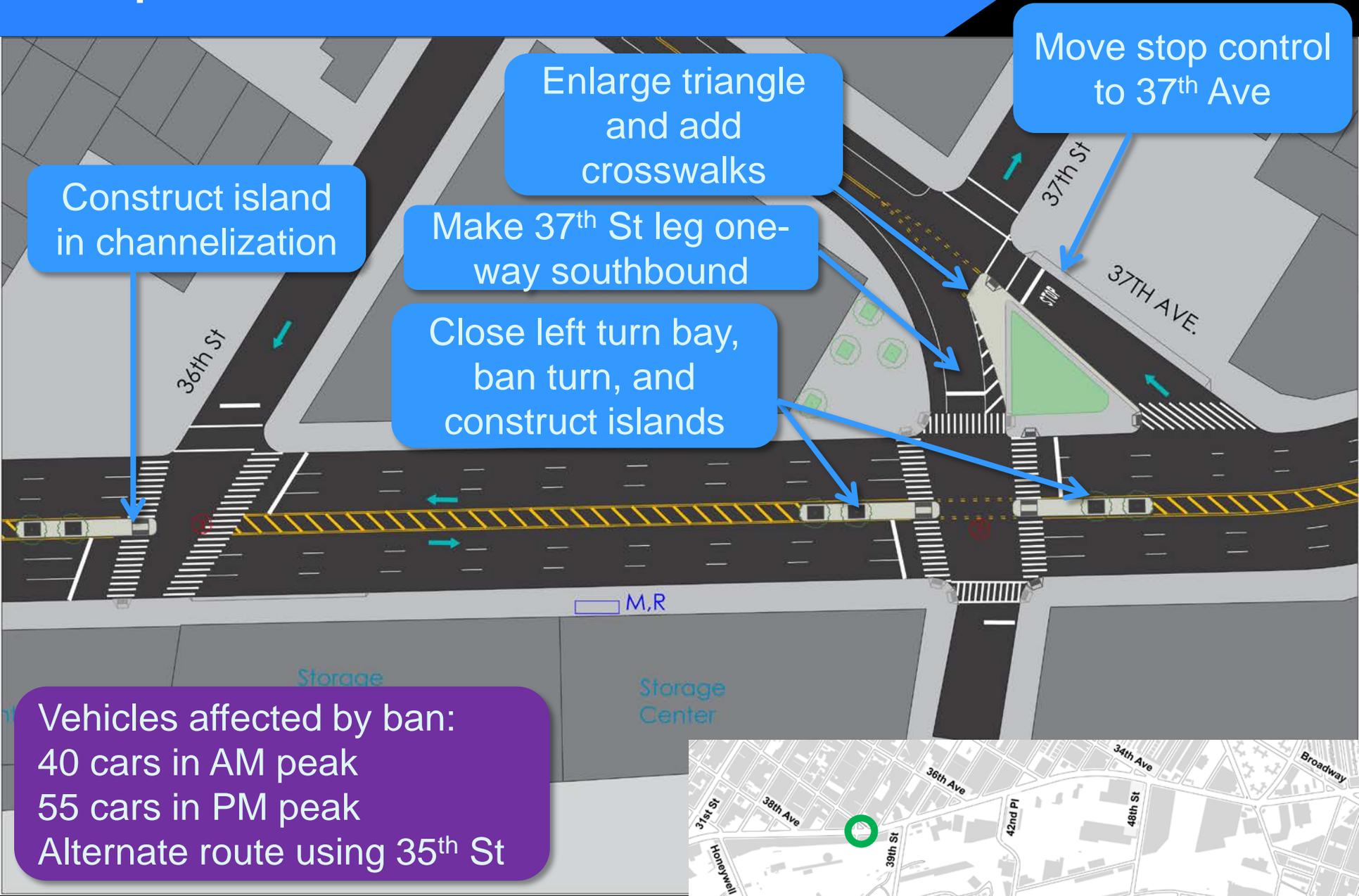
Vehicles affected by ban:
35 cars in AM peak
15 cars in PM peak
Alternate route using 31st St



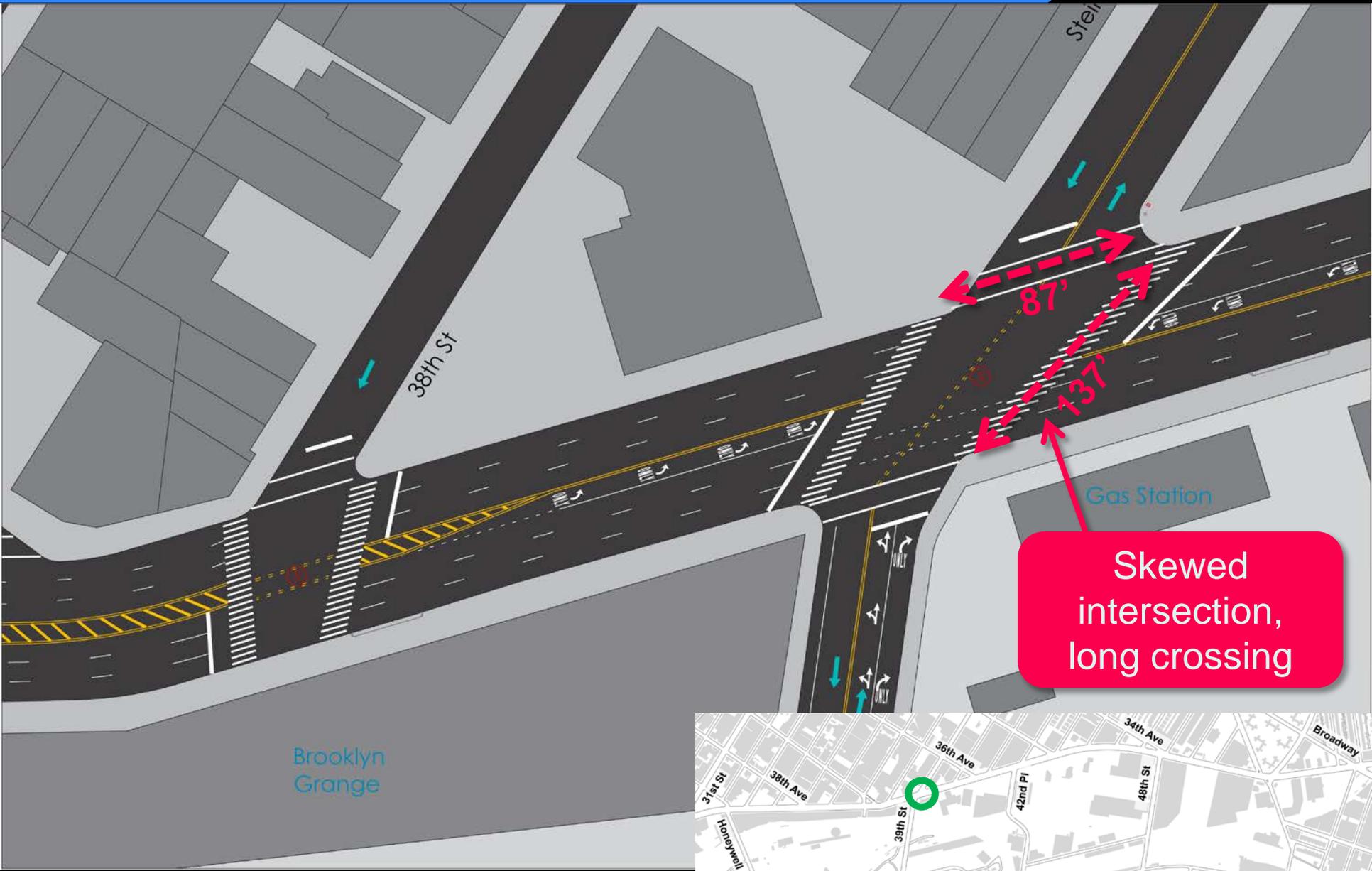
Existing Conditions – 37th St



Proposed Conditions – 37th St



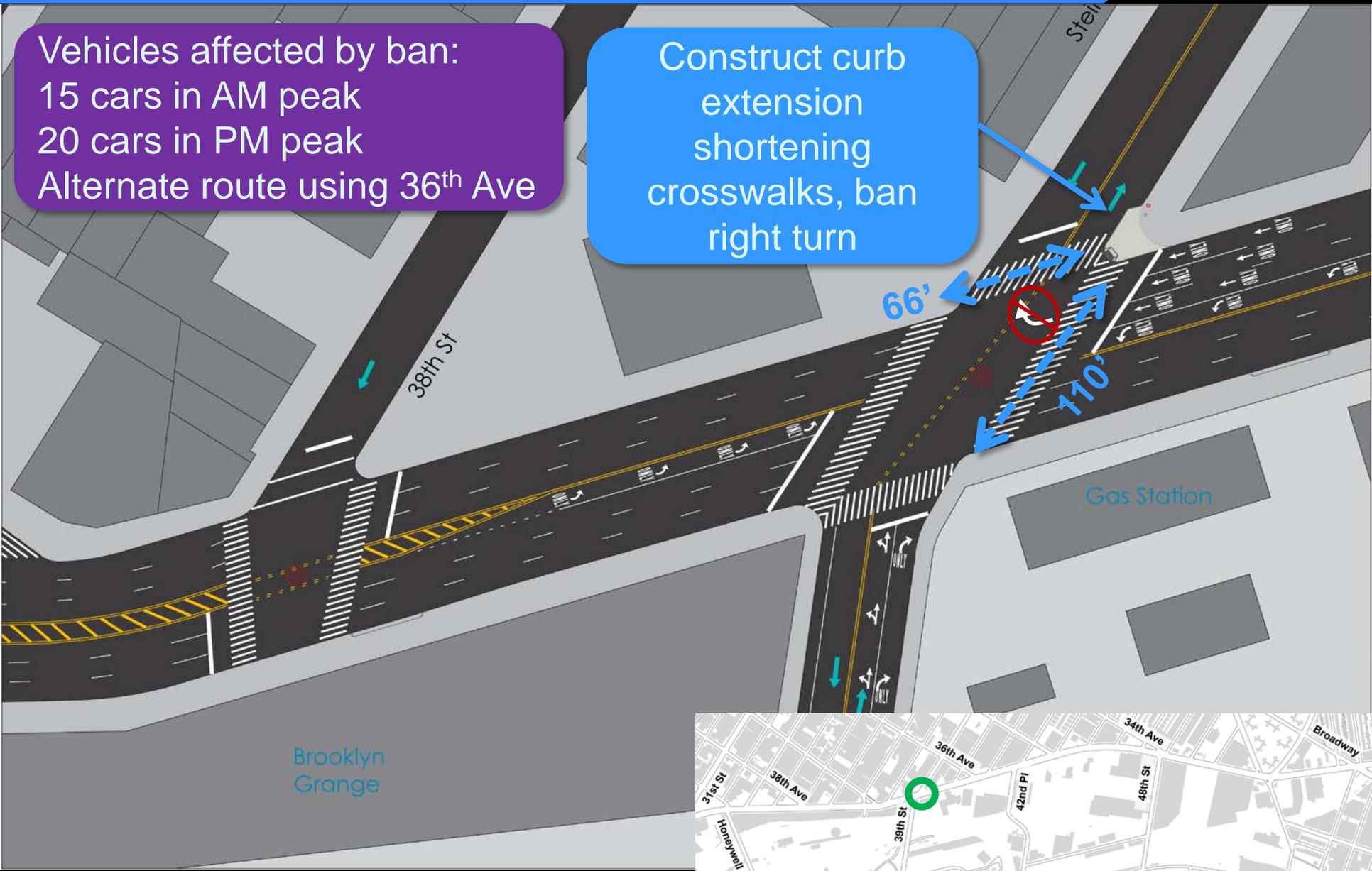
Existing Conditions – Steinway St



Proposed Conditions – Steinway St

Vehicles affected by ban:
15 cars in AM peak
20 cars in PM peak
Alternate route using 36th Ave

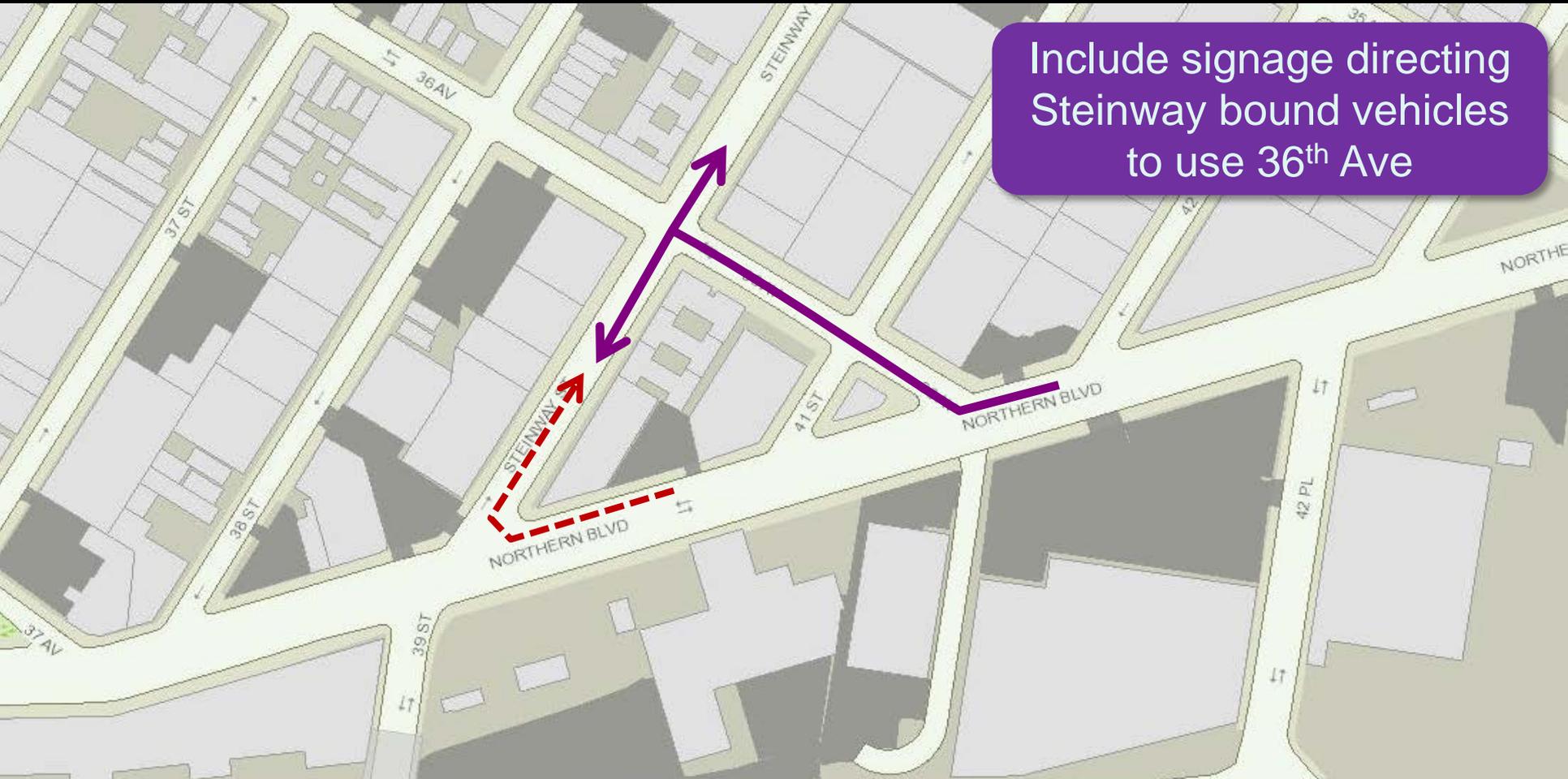
Construct curb extension
shortening
crosswalks, ban
right turn



Brooklyn
Grange



Alternate Routes – Steinway St



Include signage directing Steinway bound vehicles to use 36th Ave



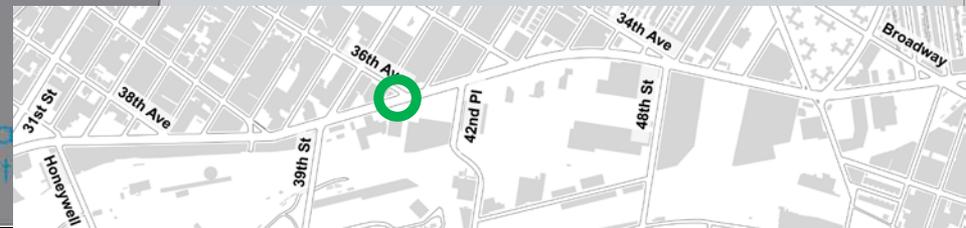
Banned movements under proposal
Alternate Route

Vehicles affected by ban:
15 cars in AM peak
20 cars in PM peak

Existing Conditions – 41st St

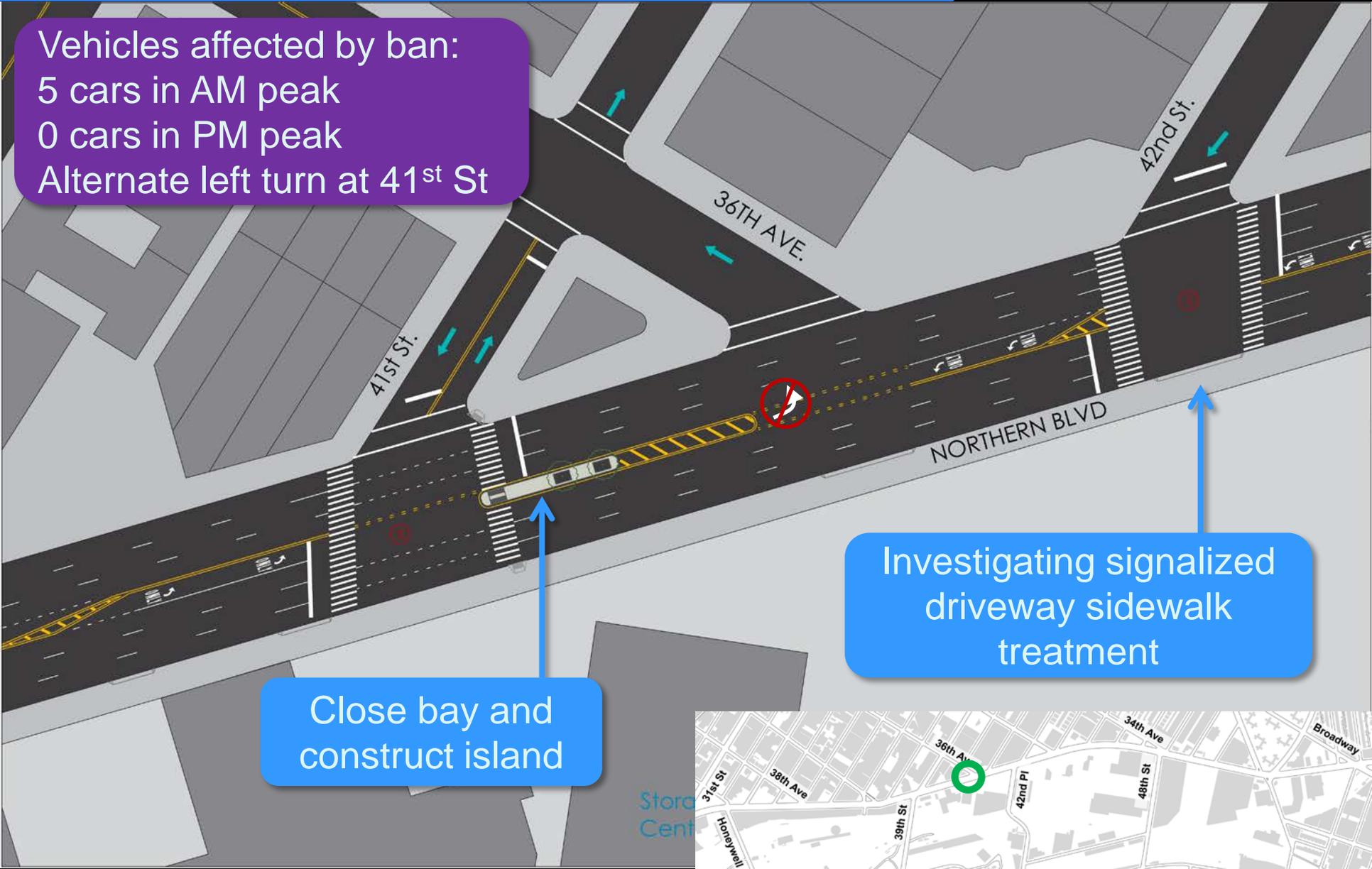
Sharp left turn
into crosswalk

Low volume left
turn with
redundant bay



Proposed Conditions – 41st St

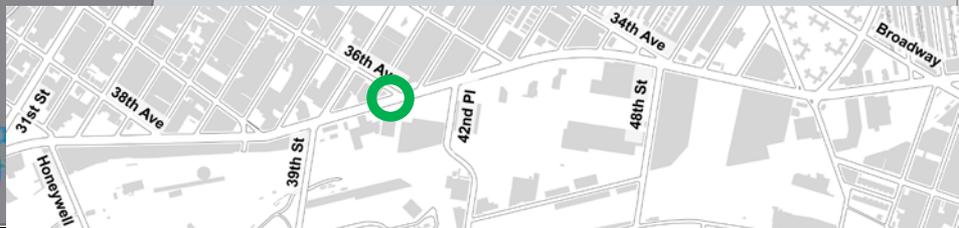
Vehicles affected by ban:
5 cars in AM peak
0 cars in PM peak
Alternate left turn at 41st St



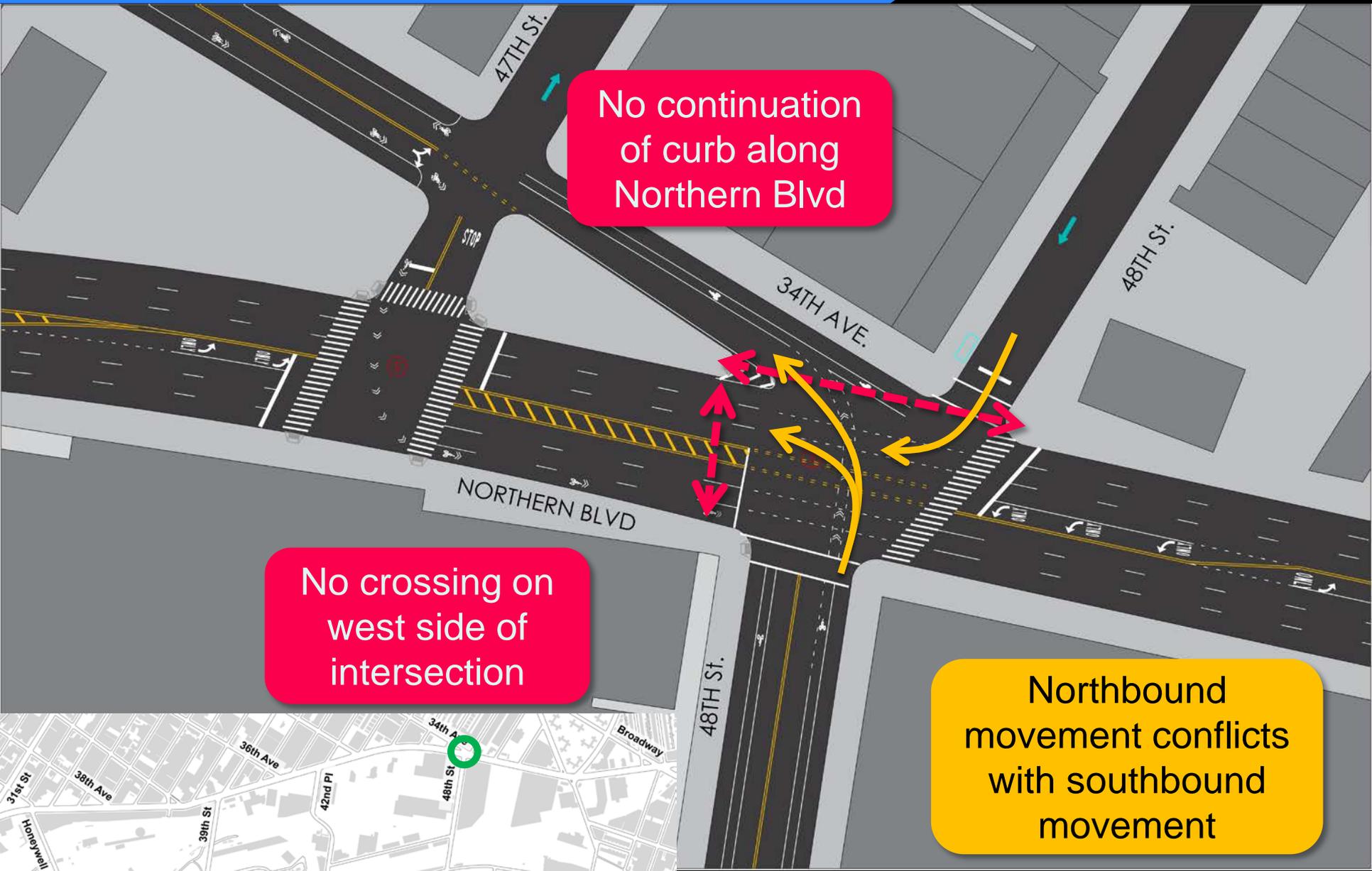
Close bay and
construct island

Investigating signalized
driveway sidewalk
treatment

Store
Cent



Existing Conditions – 48th St

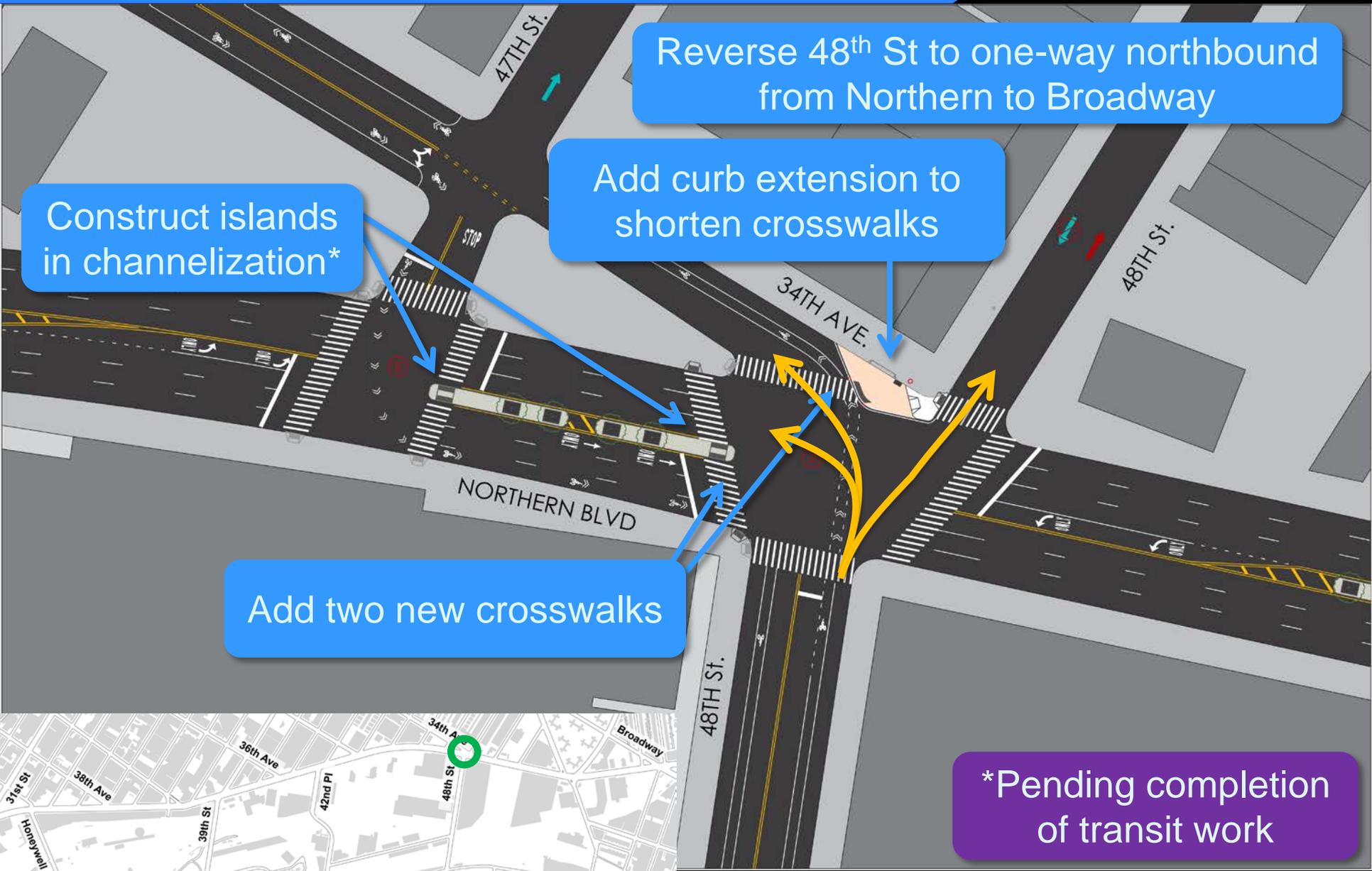


No continuation of curb along Northern Blvd

No crossing on west side of intersection

Northbound movement conflicts with southbound movement

Proposed Conditions – 48th St



Reverse 48th St to one-way northbound from Northern to Broadway

Add curb extension to shorten crosswalks

Construct islands in channelization*

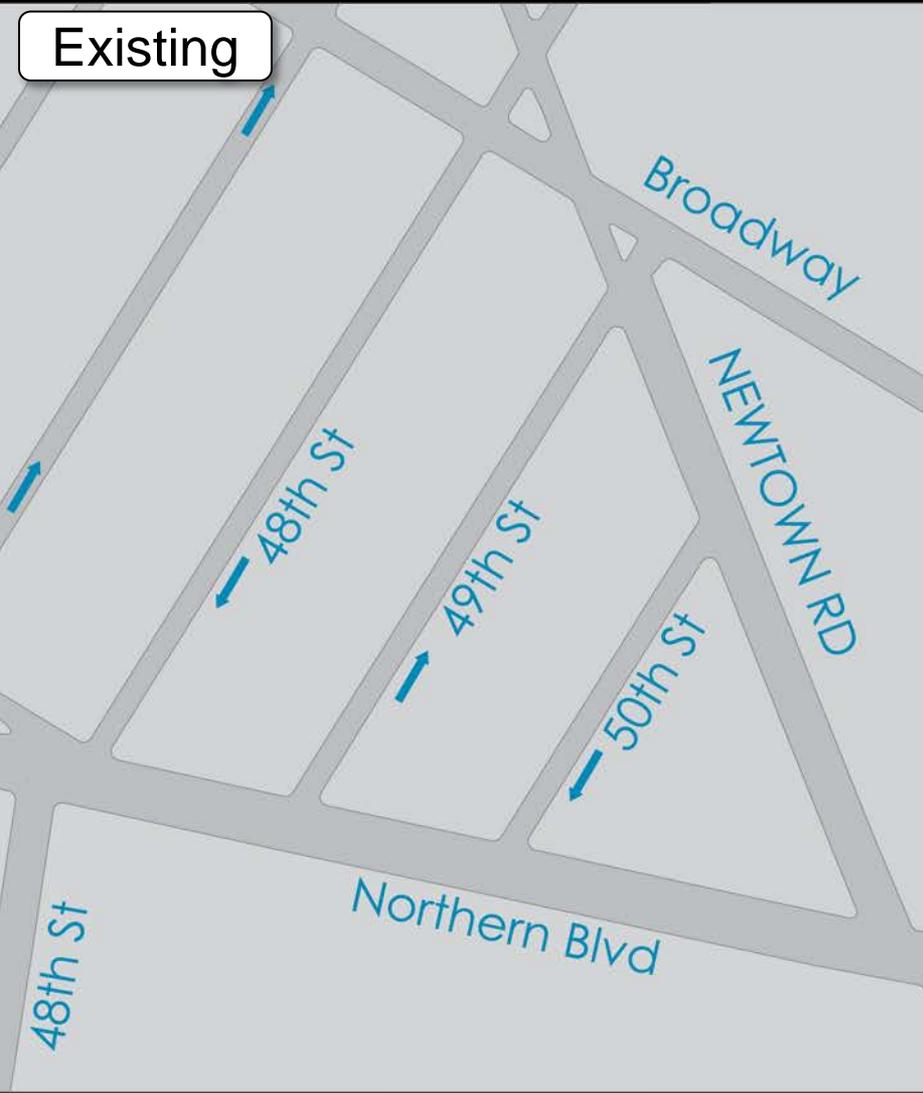
Add two new crosswalks

*Pending completion of transit work

Reversal Proposal

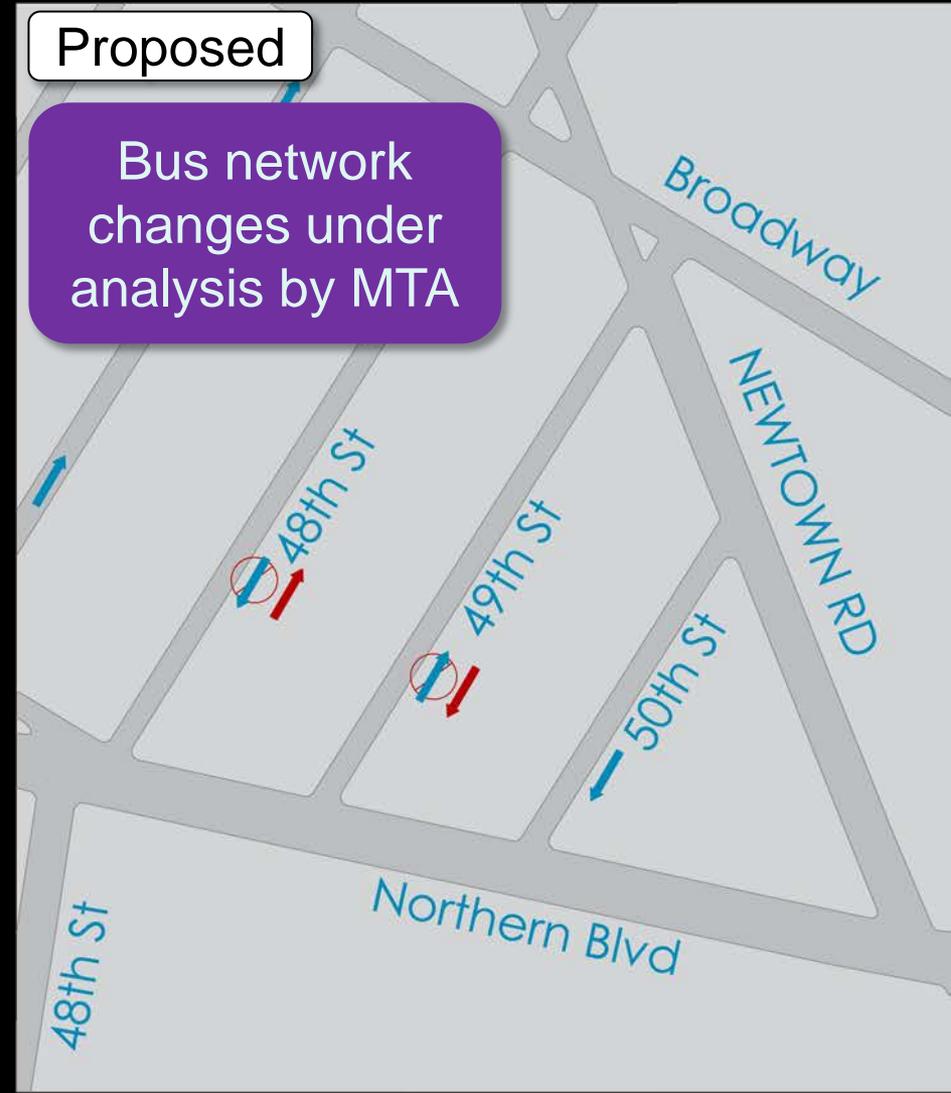
-  Proposed Street Direction
-  Existing Street Direction

Existing

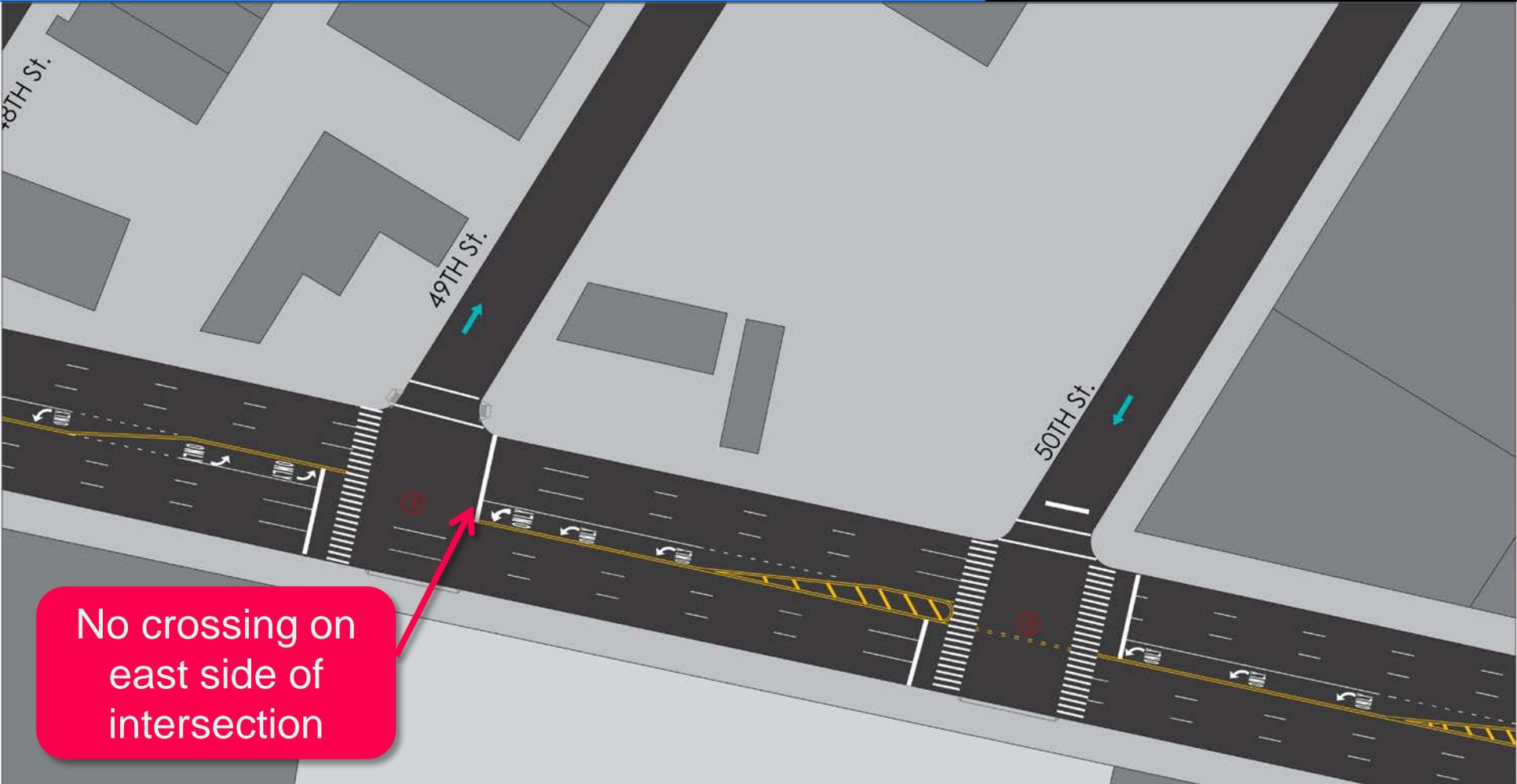


Proposed

Bus network changes under analysis by MTA



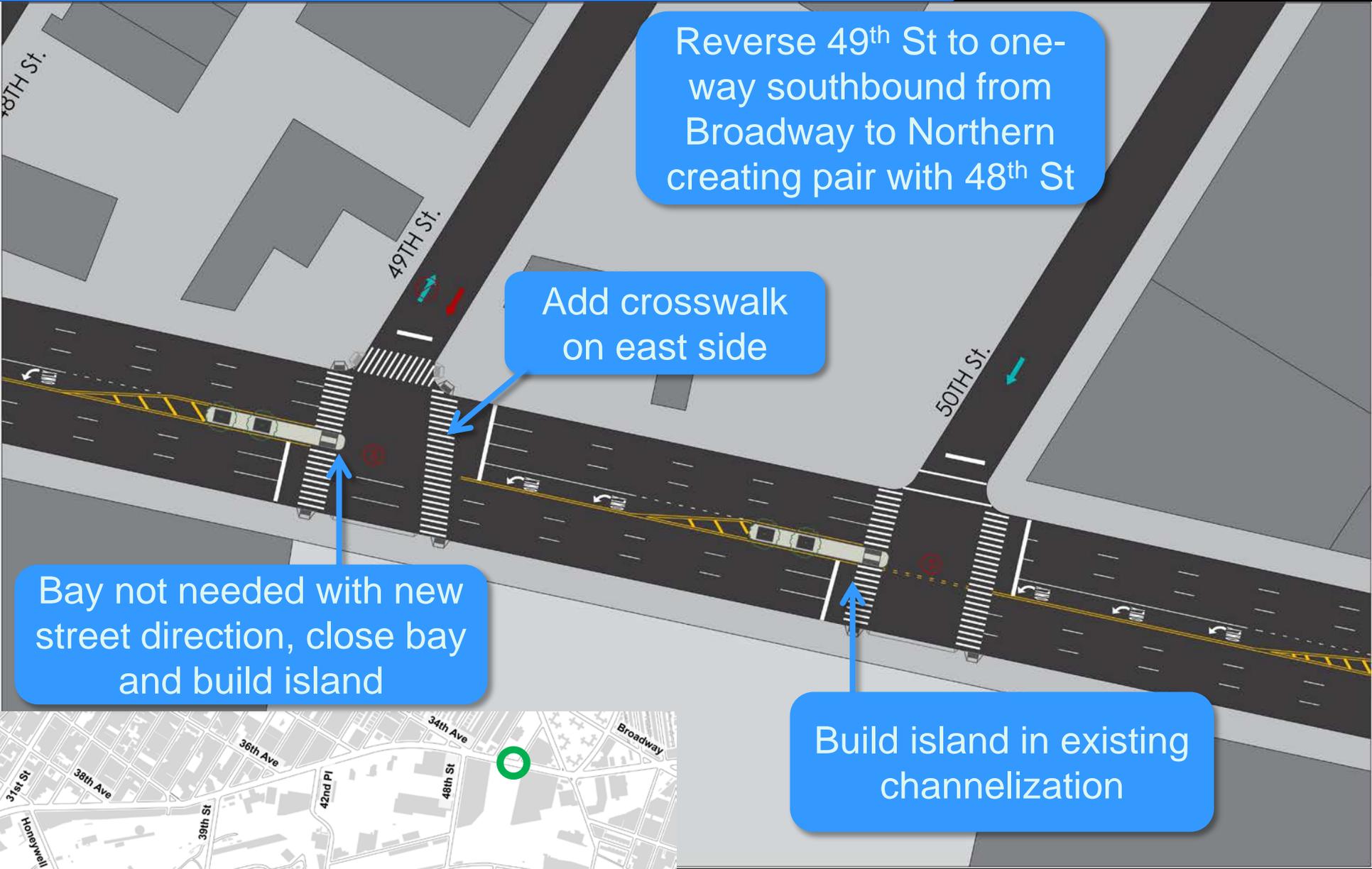
Existing Conditions – 50th St



No crossing on east side of intersection



Proposed Conditions – 50th St



Reverse 49th St to one-way southbound from Broadway to Northern creating pair with 48th St

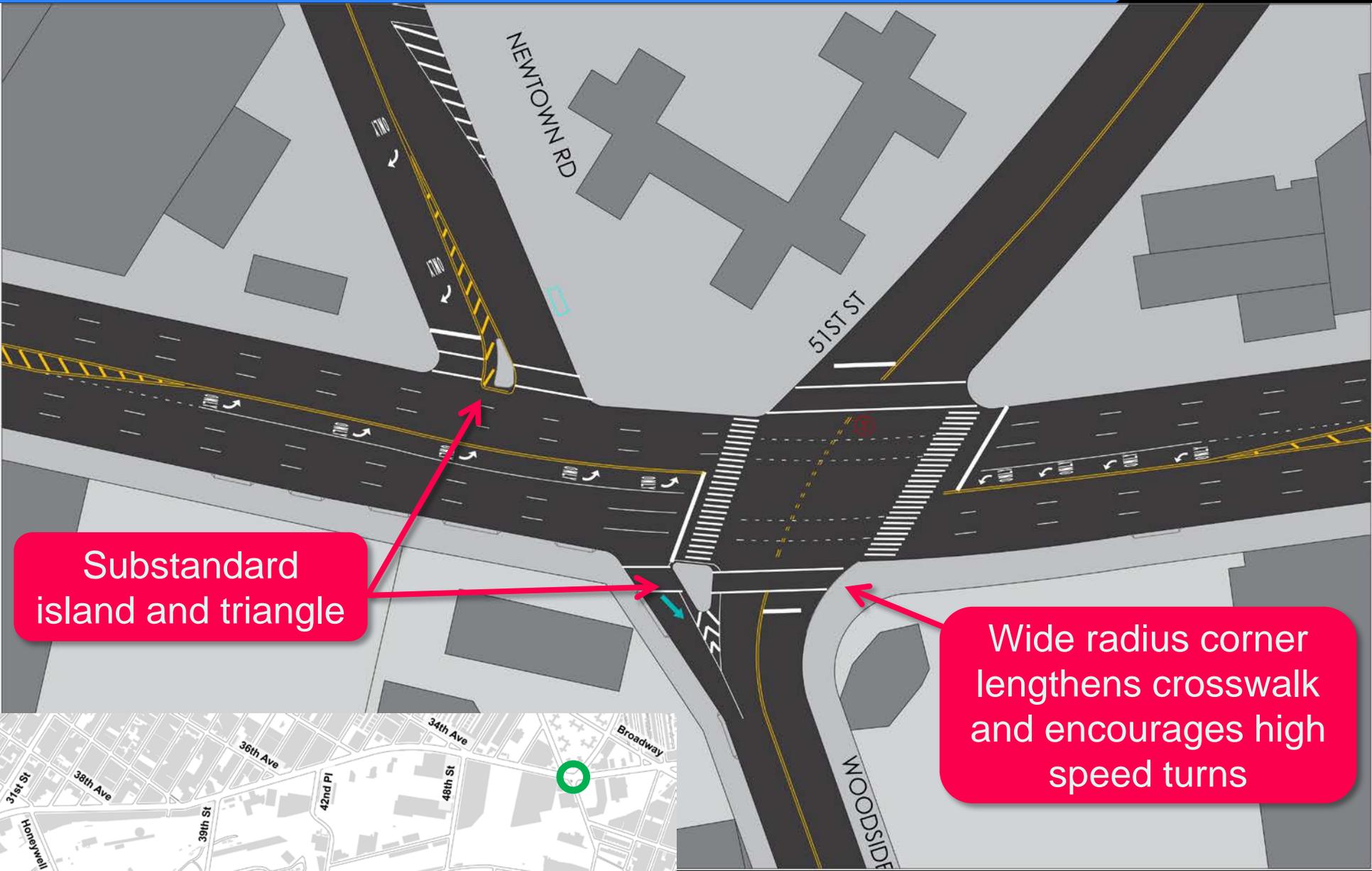
Add crosswalk on east side

Bay not needed with new street direction, close bay and build island

Build island in existing channelization



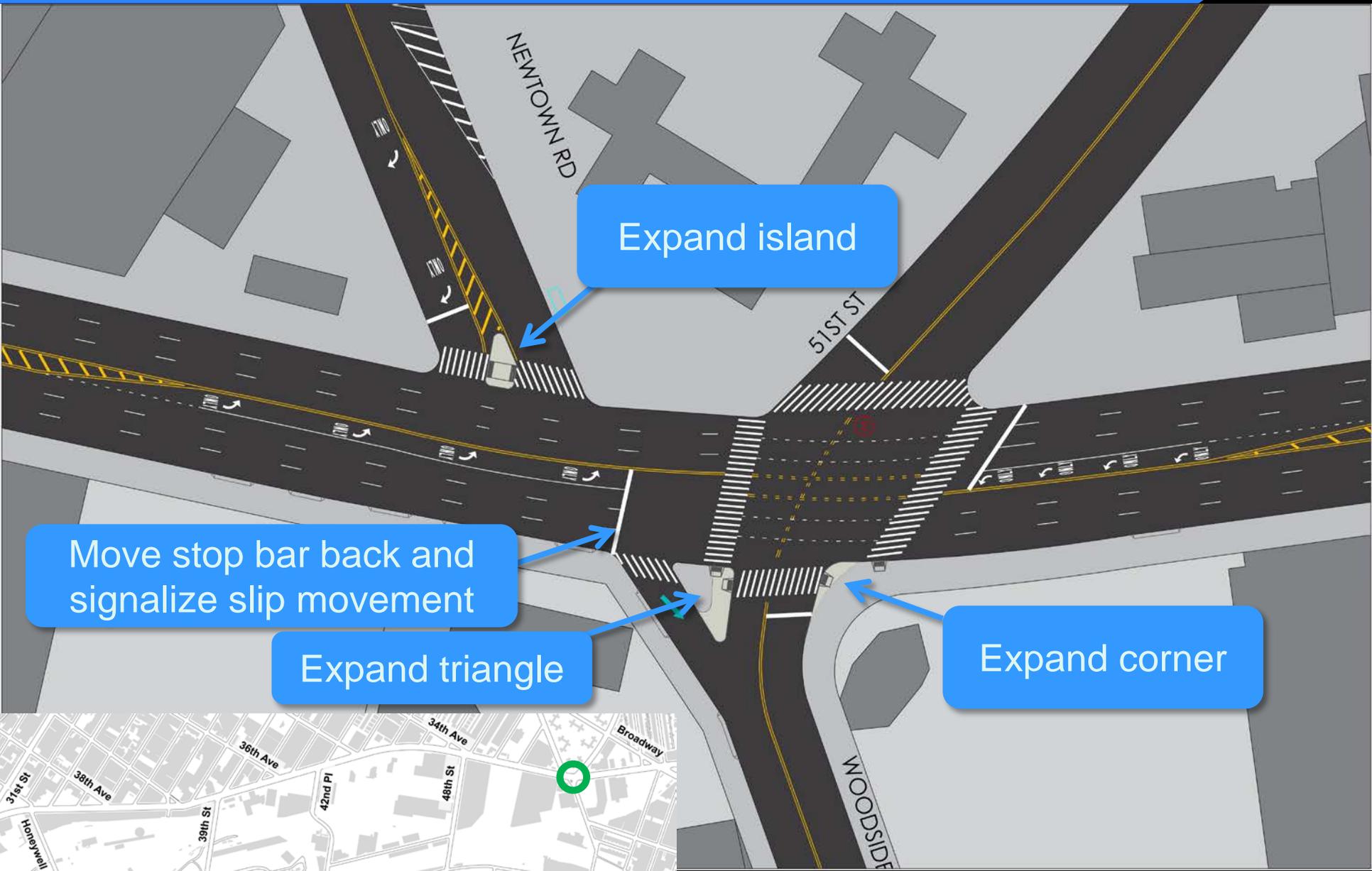
Existing Conditions – Woodside Ave



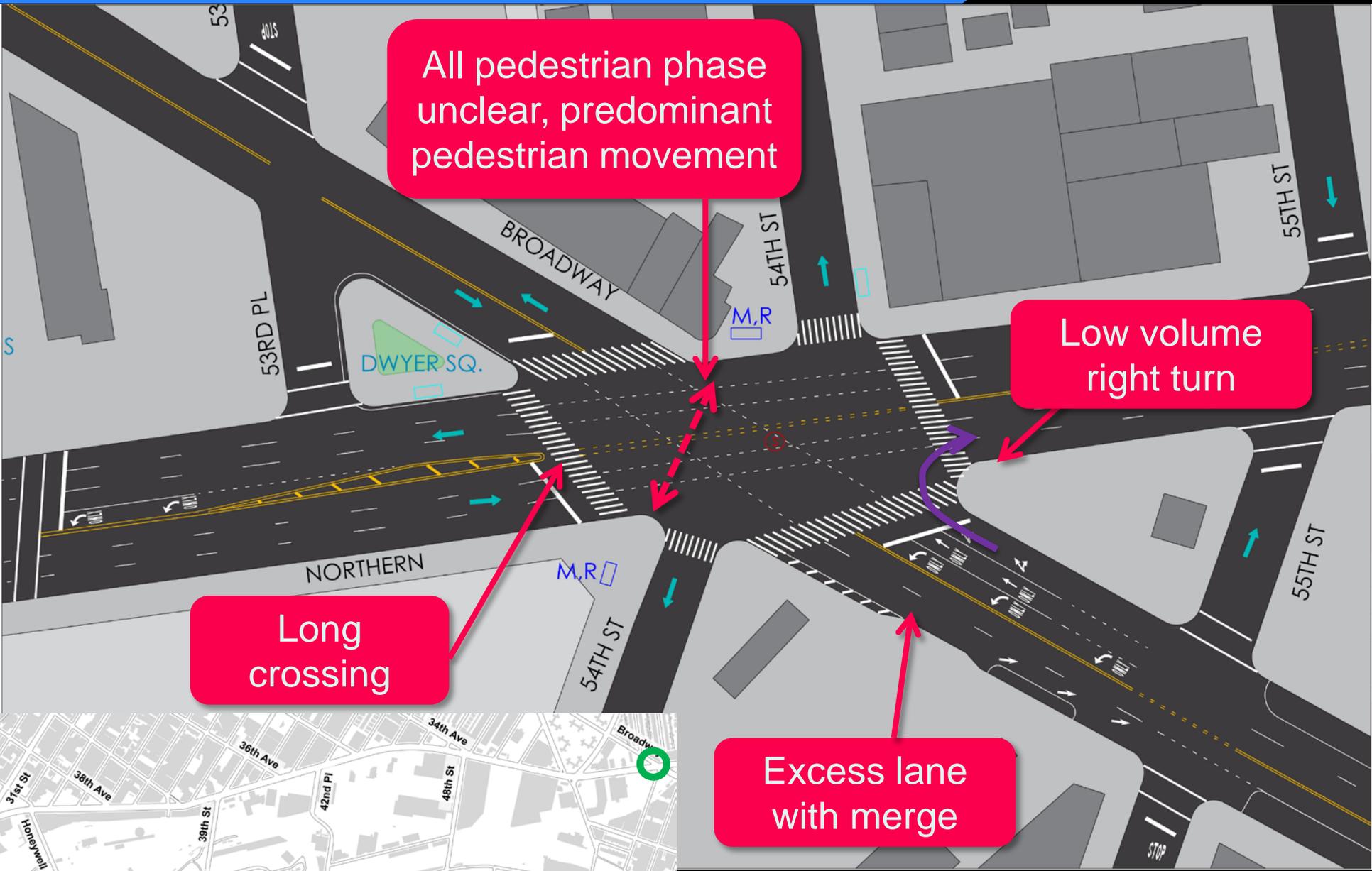
Substandard
island and triangle

Wide radius corner
lengthens crosswalk
and encourages high
speed turns

Proposed Conditions – Woodside Ave



Existing Conditions – Broadway



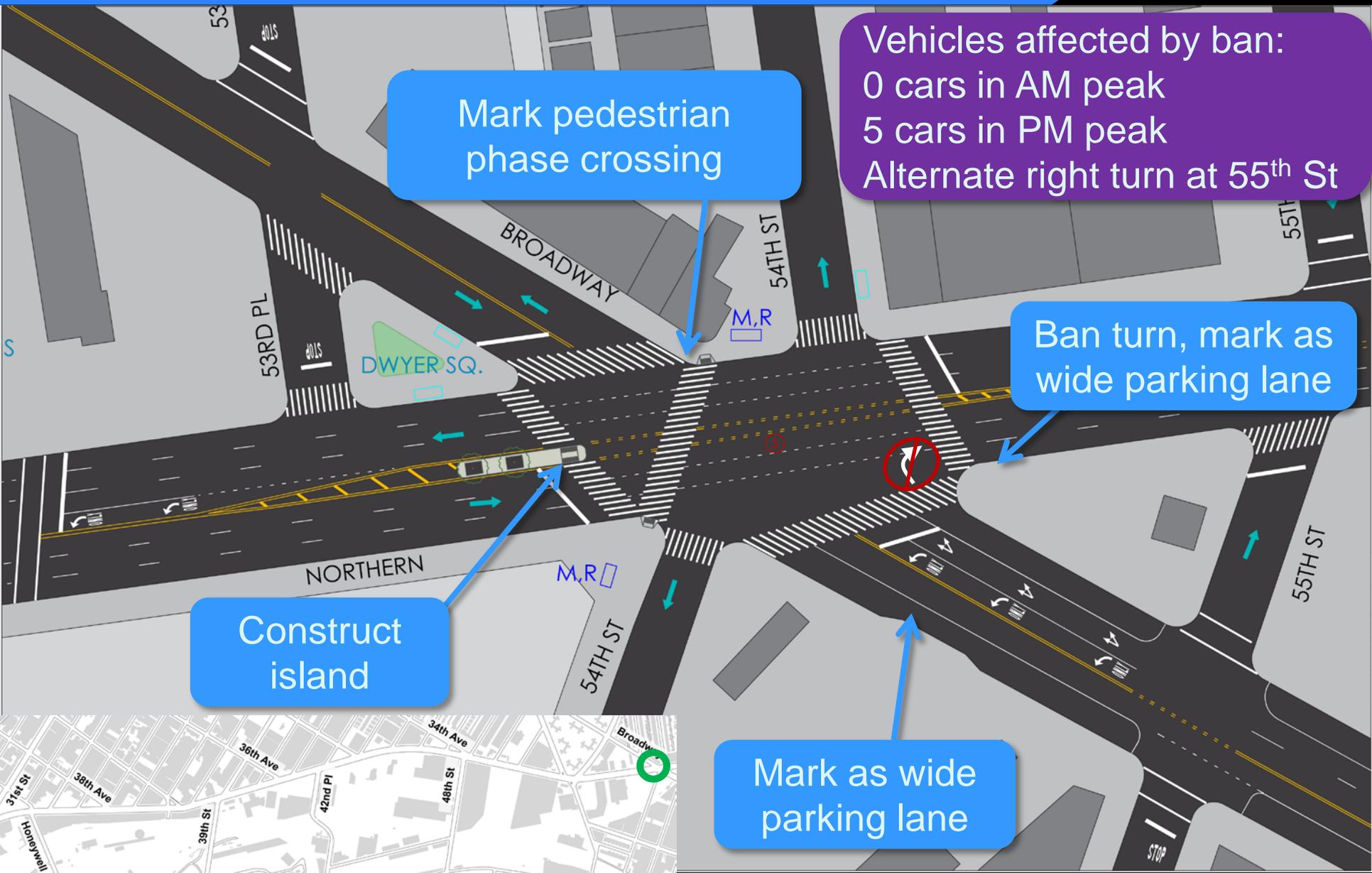
All pedestrian phase unclear, predominant pedestrian movement

Low volume right turn

Long crossing

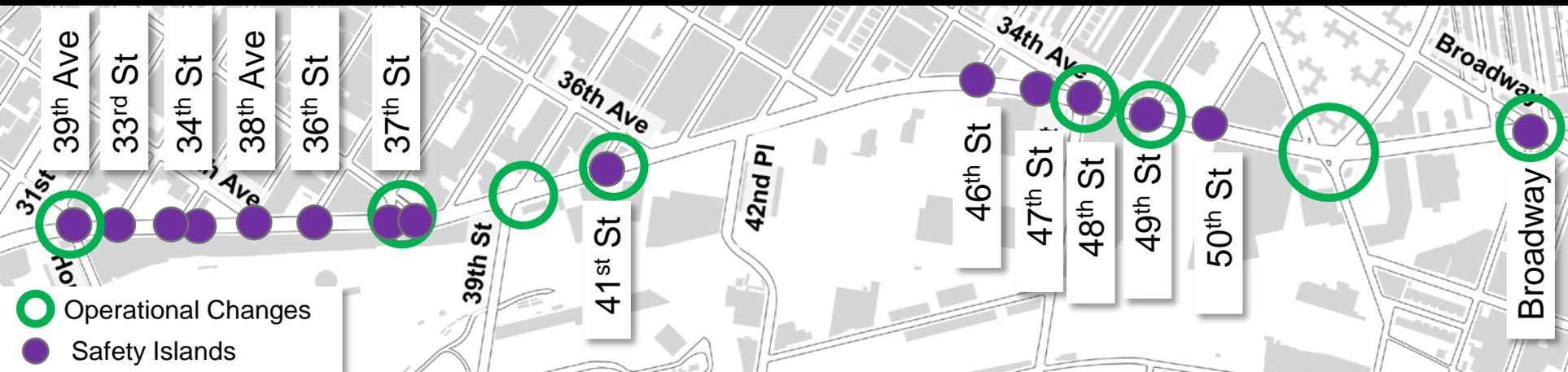
Excess lane with merge

Proposed Conditions – Broadway



Proposal Summary

- Construct 15 Pedestrian Safety Islands
- Ban left turn at 39th Ave, 37th St, 36th Ave,
- Enlarge triangle at 37th St, converting one block of 37th St to one way SB from 37th Ave to Northern Blvd
- Construct curb extension, banning westbound right turn at Steinway St
- Reverse 48th St from southbound to northbound from Northern to Broadway
- Reverse 49th St from northbound to southbound from Northern to Broadway
- Add curb extension at 48th St
- Expand triangles and corner at Newtown/Woodside Ave
- Ban right turn for NB Broadway to Northern Blvd





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Thank
You