Northern Blvd – Honeywell to Broadway
Corridor Safety Improvements

New York City Department of Transportation
Presented by Pedestrian Projects Group on March 8th, 2016 to CB 1 Transportation Committee
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

Meeting with CB 1 Transportation Committee in January
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)

<table>
<thead>
<tr>
<th></th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI</th>
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</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>43</td>
<td>9</td>
<td>1</td>
<td>10</td>
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<tr>
<td>Bicyclist</td>
<td>21</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>265</td>
<td>9</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>329</td>
<td>21</td>
<td>1</td>
<td>22</td>
</tr>
</tbody>
</table>

#### Fatalities, 01/01/2010-3/14/2016: 1

Source: Fatalities: NYC DOT Injuries: NYS DOT KSI: Persons Killed or Severely Injured

[Map showing locations of incidents]
Primary Corridor Issue

Conflicts between turning vehicles and pedestrians and long crossings
Proposal

• Construct 14 pedestrian safety islands
Proposal

- Improve operations at 8 locations
- Improve signal timing at 2 locations
- Investigating sidewalk treatment where driveways are signalized
Existing Conditions – Honeywell St

- Low volume left turn
- Heavy left turn coming off of bridge
Proposed Conditions – Honeywell St

Vehicles affected by ban:
- 35 cars in AM peak
- 15 cars in PM peak

Alternate route using 31st St

Close bay, ban turn and construct island

Construct island in channelization
Existing Conditions – 35th St

- Heavy thru movement
- No crosswalk
Proposed Conditions – 35th St

- Construct island in channelization
- Add all pedestrian phase to signal
- Construct island and mark crosswalk
Existing Conditions – 37th St

Unclear merge/poor visibility

No crosswalk to triangle
Proposed Conditions – 37th St

- Construct island in channelization
- Enlarge triangle and add crosswalks
- Make 37th St leg one-way southbound
- Close left turn bay, ban turn, and construct islands
- Move stop control to 37th Ave

Vehicles affected by ban:
- 40 cars in AM peak
- 55 cars in PM peak

Alternate route using 35th St
Existing Conditions – Steinway St

Skewed intersection, long crossing
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

Intersection is already a three phase signal so there is not enough time for a protected left turn phase for Northern Blvd
Alternate Routes – Steinway St

Banned movements under proposal
Alternate Route

Include signage directing Steinway bound vehicles to use 36th Ave

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
Existing Conditions – 48th St

- No continuation of curb along Northern Blvd
- Northbound movement conflicts with southbound movement
- No crossing on west side of intersection
- Marked parking lane but no parking allowed
Proposed Conditions – 48th St

- Construct islands in channelization*
- Reverse 48th St to one-way northbound from Northern to Broadway
- Add curb extension to shorten crosswalks
- Add two new crosswalks
- Mark two moving lanes

*Pending completion of transit work
Existing Conditions – 49th St

No crossing on east side of intersection
Proposed Conditions – 49th 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

Shopping center parking
Existing Conditions – Broadway/Newtown

- Lack of crosswalks
- One way street forced southbound
- Lack of crosswalks
Proposed Conditions – Broadway/Newtown

Reverse 49th St to Southbound
Reverse one block of Newtown Rd
Reverse 48th St to Northbound
Convert one block of 49th St to two-way
Reverse stop control from 49th St to Newtown Rd
Paint curb extension and mark crosswalks
Reverse 49th St to Southbound
Proposed Conditions – Broadway/Newtown

Southbound traffic diverted to 49th St
Existing Conditions – Woodside Ave

Substandard island and triangle

Wide radius corner lengthens crosswalk and encourages high speed turns
Proposed Conditions – Woodside Ave

- Move stop bar back and signalize slip movement
- Expand triangle
- Mark dedicated right lane and thru/left lane
- Expand corner
- Expand island
**Existing Conditions – Broadway**

- All pedestrian phase unclear, predominant pedestrian movement
- Long crossing
- Heavy leading left turn for NB Broadway block SB traffic
Mark pedestrian phase crossing

Construct island

Switching to a lagging left turn for NB Broadway is unsafe for SB left turning vehicles
Proposal Summary

- Construct 14 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
- Reverse one block of Newtown Rd between 48th St and Broadway
- Convert one block of 49th St to two-way between Broadway and Newtown Rd
- Paint curb extension at 49th St and Newtown Rd
- Expand triangles and corner at Newtown/Woodside Ave