Background
BACKGROUND

- Project builds on past DOT projects and community requests
- Nearby transit: A/C/1 subways and M2, M3, M100, Bx7 bus lines
- Close to medical facilities
- Walkthrough with NYPD 33rd Precinct

2017 DOT Project

Angled parking discussed during Haven Plaza project

Community request for safety improvements
SAFETY DATA

- **18** total pedestrian injuries from traffic crashes on St Nicholas Ave 165 St to 170 St
- **3** pedestrian injuries resulted in a severe injury at 166th St and 168th St

### St Nicholas Av, 165-170 St, MN
Injury Summary, 2013-2017 (5 years)

<table>
<thead>
<tr>
<th></th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>18</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Bicyclists</td>
<td>9</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>29</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>56</td>
<td>95</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>
Existing Conditions
EXISTING CONDITIONS: 170TH TO 169TH ST

1. Lack of crossings at pedestrian desire lines

2. Southbound bike lane on St Nicholas Ave north of 170th St lacks connection to southbound bike lane on St Nicholas Ave south of 168th St. NYPD expressed concern about lack of southbound bicycle connection.

3. Transition to/from a shared lane on northbound St. Nicholas Ave between 169th St and 170th St
1. Previously approved design was delayed due to construction at PS 128

2. Bike lane lacks protection from traffic on north half of block
EXISTING CONDITIONS: 168TH TO 166TH ST

1. One lane each direction
2. Southbound has low vehicle volumes in the peak hour
3. Redundant street network
EXISTING CONDITIONS: 166TH TO 165TH ST

1. Large, six legged intersection

2. Pedestrians cross multiple times to remain on St. Nicholas Ave or 165th St

St Nicholas at 165th St looking South
EXISTING CONDITIONS: 165TH TO AUDUBON

1. Pedestrian space stops at eastern edge of McKenna Square, not connecting to Amsterdam Ave

2. Long crossing distance for pedestrians
Crosswalks

Pedestrian Space with Flexible Delineators

Curb Regulations and Signage

Pedestrian Signal

Angled Parking
Proposal
PROPOSED: 170TH TO 169TH STREET

**Existing**

**Proposed**

- Add bike lane
- Add crosswalk
- Upgrade existing bike facility
- Add painted island to slow vehicle turns
PROPOSAL: 169TH TO 168TH STREET

Previously Planned

Proposed

Previously approved design

Upgrade existing bike facility

Add bike lane

Add painted curb extension
PROPOSAL: 168TH TO 166TH STREET

Existing

Proposed

Add painted island to shorten crosswalk

Change street to one-way northbound, add angled parking (+17)

Upgrade existing bike facility

Add painted island to shorten crosswalks
PROPOSAL: 166<sup>TH</sup> TO 165<sup>TH</sup> STREET

- **Existing**
- **Proposed**

- **Add painted curb extensions**
- **Add parking (+5)**
- **Tighten intersection**
- **Provide direct path for pedestrians**
PROPOSAL: 165TH AND AUDUBON

Existing

Proposed

Add painted sidewalk extension

Add parking (+3)
PROJECT SUMMARY

- Convert St Nicholas Ave from 166th to 168th St to a one-way northbound
- Add two new crosswalks on St Nicholas Ave at 169th St and 165th St
- Add 4 painted curb extensions at Broadway and 168th St; St Nicholas Ave and 165th St; Audubon Ave and 166th St
- Add 5 painted islands at St Nicholas Ave and 169th St, 168th St, 167th St and 166th St
- Add 1 painted sidewalk extension at Amsterdam and 165th St
- Add parking on St Nicholas Ave from 166th to 168th Sts, Audubon from 165th to 166th Sts, and on 165th St at Amsterdam Ave (net +20 spots)
- Add southbound conventional bike lane on Broadway from 170th to 168th Sts
- Upgrade conventional bike lane to protected bike lane on southbound St Nicholas Ave from 168th to 166th Sts
- Upgrade conventional bike lane to protected bike lane on northbound St Nicholas Ave from 168th to 169th Sts
- Upgrade shared lane to a combination of protected and conventional bike lane on northbound St Nicholas Ave from 169th to 170th Sts
BENEFITS

- Clarifies traffic movements
- Provides safer, shorter pedestrian crossings
- Maintains and improves bike network connections
- Simplifies street network
Appendix
Net: +20
STREET CONVERSION: 166 ST TO 168 ST

Existing

West Sidewalk

10’ Parking Lane

11’ Travel Lane

Buffer and Turn Bay

12’ Travel Lane

9’ Parking Lane

East Sidewalk

62’

Proposed

West Sidewalk

6’ Angle Parking

20’ Parking Lane

16’ Travel Lane

5’ Parking Lane

East Sidewalk

62’
SIGNAL PHASING

Existing

Proposed