BROADWAY AT VAN CORTLANDT PARK
SAFETY AND MOBILITY IMPROVEMENTS
New York City Department of Transportation
Presented by the Bicycle and Greenway Program
Project Timeline

- **September 2015**: Walkthrough with Councilman Cohen
- **Fall 2015**: Public Survey on Broadway
- **October 2015**: Community Workshop with CB 8
- **Winter 2016 to Winter 2017**: Data Collection, Analysis, Design
- **November 2016**: Installation of 2 New Signalized Crossings
- **Winter/Spring 2017**: Presentation of Proposed Project to Elected Officials and CB 8, field visits
- **Spring 2018**: Implementation of Project

**Today**

*Image descriptions:*
- People walking and crossing the street at Broadway at Van Cortlandt Park.
- People standing and interacting at a public event, possibly related to the project.
Issue: Safety

11 people, including 5 pedestrians and 1 cyclist, were killed or severely injured on Broadway between W 242nd St and Caryl Ave (2012-2016)

There have been three pedestrian fatalities and one motor vehicle occupant fatality since 2012.

Of the 450+ people surveyed Fall 2015:
38% do not feel safe crossing Broadway
50% cited speeding as their top concern
<table>
<thead>
<tr>
<th></th>
<th>Northbound</th>
<th>Percentage of Vehicles Speeding</th>
<th>Average Speed</th>
<th>Maximum Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Daytime</td>
<td>99%</td>
<td>32.8 mph</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nighttime</td>
<td>73%</td>
<td>28.6 mph</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Southbound</th>
<th>Percentage of Vehicles Speeding</th>
<th>Average Speed</th>
<th>Maximum Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Daytime</td>
<td>92%</td>
<td>31.7 mph</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nighttime</td>
<td>95%</td>
<td>32.1 mph</td>
</tr>
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</table>

**Issue: Safety**

Speeding is an issue along the corridor and is especially prevalent during off-peak hours.

Source: Daytime radar speed study taken on May 24, 2017 btw. Manhattan College Parkway and W 251st Street on Broadway, nighttime radar speed study taken on March 29, 2017 btw Manhattan College Parkway and W 251st St on Broadway at approximately 8:00 pm.
1 – Broadway Corridor: W 242nd to W 246th St

Design
• Conventional bike lane on each side of the street, which transition to a protected design at Van Cortlandt House entrance
• Transition will require removal of 5 parking spaces (~100 ft) to maintain vehicle alignment

Benefits
• Maintains parking in front of businesses
• Organizes space under the elevated train structure
• Maintains bike lane while minimizing bus conflicts
• Connects to bike facilities at W 242nd St
**Existing**

- Maintain existing parking capacity and access to businesses

**Proposed**

- Create new plaza space, with continuous connection to subway station
- Simplify bus operations and limit the impact of double parked vehicles
- Maintain existing parking capacity and access to businesses

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1 – Broadway Corridor: W 242\(^{nd}\) to W 246\(^{th}\) St
Broadway Corridor: W 246th St to Westchester County

Design
- Install standard width lanes to narrow roadway
- Add two-way protected bike lane along park edge
- Install bus boarding islands at bus stops

Benefits
- Narrow roadway discourages speeding
- Islands shorten crossings, create ADA compliant bus stops
- Bus loading/unloading happens from travel lane, speeds up service
- Protected bike lane
  - creates new transportation/recreation facility, comfortable for all ages/abilities
  - improves bike access to Van Cortlandt Park, Westchester County trails
  - activates park edge

Crossing distance reduced nearly 30% from 70' to 50'
Protected two-way bike lane along park edge is a neighborhood amenity that provides a **recreation opportunity** for cyclists of **all ages and abilities** and activates the park edge.
**Broadway Corridor: W 246\textsuperscript{th} St to Westchester County**

**Existing**

- Install hardened center line to create safer left turn from Lakeview Pl

**Proposed**

- Modify geometry to slow vehicles entering the HHP
- Add missing pedestrian connection
Existing

Proposed

Extend SB left turn lane for vehicles approaching HHP

Modify geometry to shorten ramp crossing

Maintain existing vehicle lanes

Adjust signal timing to provide protected crossing for bikes and peds

Broadway Corridor: W 246th St to Westchester County
Broadway Corridor: W 246th St to Westchester County

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

- **Remove underutilized left turn lane for NB vehicles approaching W 254th St**
- **Shorten pedestrian crossing distances**
- **Add 8 new parking spaces**
- **Modify geometry to slow the vehicles entering HHP**
Crossing distance at intersection of Broadway and Mosholu Ave reduced 33% from 120’ to 80’

**Design**

- Install bus boarding and pedestrian safety islands on the east side of Broadway at Mosholu Ave
- Install painted curb extensions on the west side of Broadway at Mosholu Ave
- Install Leading Pedestrian Interval signal timing for pedestrians crossing Broadway

**Benefits**

- Reduces pedestrian crossing distances
- Gives pedestrians a head start when crossing Broadway
- Maintains existing parking
Project Summary

Pedestrian Enhancements

- Crossings shortened by 30% at typical bus stops along the corridor
- Realigned, shortened crossing at Moshulu Ave
- Normalized crossings at entrance/exit ramps
- Shorter crossings and new plaza at Manhattan College Pkwy

*Improved access to Van Cortlandt Park, transit, and new public space*

Bus Service Improvements

- New bus boarding islands at northbound bus stops between W 246th St and 261st St shorten crossings and speed up service
- New southbound bus boarding island at elevated train station facilitates passenger drop-off and pick-up

*Bus islands improve and sped up boarding and alighting experience*

Protected Bike Lanes and Conventional Bike Lanes

- Creates new transportation and recreation facility that is comfortable for all ages and abilities
- Improves bike access Van Cortlandt Park, Westchester County trails, and subway station
- Enlivens park edge

*New bike path increases transportation options and creates new recreation amenity for the neighborhood*

*Addition of 8 parking spaces, removal of 5, net gain of 3*
THANK YOU!

Questions?