Morrisania School Safety Improvements

Presentation for Bronx Community Board 3
February 9, 2021

VISION ZERO
nyc.gov/visionzero

NEW YORK CITY DOT
Partnership: DOT School Safety & I Challenge Myself

- DOT School Safety & the I Challenge Myself (ICM) afterschool program have partnered to develop proposed safety improvements for Morrisania area
- School Safety & ICM have met for a series of field meetings and design workshops
Morrisania School Safety Improvements

Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2019
- Priority Intersections, Corridors, and Areas identified for each borough

Morrisania Area

- Entire project area is within a Vision Zero Priority area
Morrisania School Safety Improvements

Project Area

- Project area used by students accessing nearby schools
- Community request for angle parking on Trinity Ave
- Wide streets with low traffic volumes
- Dense residential area, Including Forest Houses and William McKinley Houses

[Map showing the project area with landmarks and schools labeled]
Morrisania School Improvements

Crash Data (2014-2018)

- 201 total injuries
- 9 severe injuries
- 56% of severe injuries were pedestrians

Injury Summary, 2014-2018 (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>47</td>
<td>5</td>
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<td>5</td>
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<tr>
<td>Bicyclist</td>
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<td>1</td>
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<tr>
<td>Motor Vehicle Occupant</td>
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<td>3</td>
<td>0</td>
<td>3</td>
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<tr>
<td>Total</td>
<td>201</td>
<td>9</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>

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

Map does not include total or severe injuries that occurred at midblock locations. Data is based off of NYSDOT/NYSMDV crash and injury data available as of 1/2021.
Morrisania School Safety Improvements

Presentation Overview
Morrisania School Safety Improvements
Trinity Ave, E 166 St to E 161 St
Trinity Ave, East 166 St to East 161 St

Existing: Wide Streets With Unpredictable Movements

Wide roadway with low traffic volumes encourage speeding and irregular vehicle movements

Long crosswalks

Trinity Ave at East 163 St, looking north

ICM student conducting speed study
Trinity Ave, East 166 St to East 161 St

Proposal: Two-way Protected Bike Lane, Angled Parking and Painted Curb Extensions And Islands

Add painted curb extensions and islands to shorten crossings

Add two-way protected bike lane

Add angled parking to narrow wide travel lane
Trinity Ave, East 166 St to East 161 St

Proposal: Two-way Protected Bike Lane, Angled Parking and Painted Curb Extensions/Islands

- Add two-way protected bike lane
- Add angled parking to narrow wide travel lane
- Add painted curb extensions and islands to shorten crossings
Trinity Ave, East 166 St to East 161 St

Proposal: Two-way Protected Bike Lane, Angled Parking and Painted Curb Extensions and Islands

Existing: Trinity Ave, Bronx

Example: Fort George Hill, Manhattan

New protected bike lanes provides a safe and dedicated space for cyclists
Trinity Ave, East 166 St to East 161 St

Safety: Protected Bike Lanes

Street designs that include protected bike lanes increase safety for all users

- 15% drop in all crashes with injuries
- 21% drop in pedestrian injuries

on streets where protected bike lanes were installed 2007-2017

Protected Bike Lanes
Before and After Crash Data, 2007 - 2017

Data from 25 separate protected bicycle lane projects installed from 2007-2014 with 3 years of after data. Includes portions of 1 Ave, 2 Ave, 8 Ave, 9 Ave, Broadway, Columbus Ave, Hudson St, Lafayette St / 4 Ave, Sands St, Allen/Pike St, Kent Ave, Prospect Park West, Flushing Ave, Bruckner Blvd & Longfellow Ave, Imlay St / Conover St, Paerdegat Ave. Only sections of projects that included protected bike lanes were analyzed.

Source: NYPD AIS/TAMS Crash Database
Morrisania School Safety Concerns
East 166th St, Jackson Ave to Union Ave
East 166 Street, Jackson Ave to Union Ave

Existing Conditions

- Street widens from 24’ to 53’
- Wide one-way street with angle parking

East 166 St at Jackson Ave looking east
East 166 Street, Jackson Ave to Union Ave

Proposal: Painted Curb Extensions and Protected Bike Lanes

Painted pedestrian islands to shorten crossings

Protected bike lane
Morrisania School Safety Improvements
East 165 St, Tinton Ave to Trinity Ave
East 165 Street, Tinton Ave to Trinity Ave

Existing Conditions

- Wide roadway with low traffic volumes encourage speeding and irregular vehicle movements
- Long crosswalks

East 165 St at Trinity Ave looking east

ICM students measuring street width
East 165 Street, Tinton Ave to Trinity Ave

Proposal: Two-way Protected Bike Lane and Pedestrian Islands

Add painted curb extensions and islands to shorten crossings

Two-way parking protected bike lane

Example: Chrystie St, Manhattan
East 165 Street, Tinton Ave to Trinity Ave

Proposal: Two-way Protected Bike Lane and Pedestrian Islands

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**Existing**

North Sidewalk

South Sidewalk

50’ Travel/Parking Lanes

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**Proposal**

North Sidewalk

South Sidewalk

10’ Parking Lane

10’ Travel Lane

5’ Buffer

8’ Parking Lane

6’ Bike Lane

6’ Bike Lane

50’
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E. 161 St, Trinity Ave to Tinton Ave
East 161 St, Trinity Ave to Tinton Ave

Existing Conditions

55’ wide one-way street with angle parking
Proposal: Angled Parking, Painted Curb Extensions, and Protected Bike Lane

Install two-way protected bike lanes

Install painted curb extensions to shorten crossings

Example: 8th Street, Manhattan

Example: Fort George Hill, Manhattan
East 161 St, Trinity Ave to Tinton Ave

Proposal: Angled Parking, Painted Curb Extensions, and Protected Bike Lane
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Tinton Ave, E. 166 St to E. 161 St
Tinton Ave, East 166 St to East 161 St

Existing Conditions

50’ wide two-way street with standard parking lanes and a flush median

Tinton Ave at East 166 St, looking south
Tinton Ave, East 166 St to East 161 St

Proposal: Southbound Protected Bike Lane and Pedestrian Islands

- Rubber speed bumps to calm turning vehicles
- Parking protected bike lanes
- Painted pedestrian islands
Tinton Ave, East 166 St to East 161 St

Proposal: Southbound Protected Bike Lane and Pedestrian Islands
Morrisania School Safety Improvements

Bicycle Network Connections: Standard Bike Lanes
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Existing Conditions: Trinity Ave, East 161 to East 156 St

Trinity Ave at East 161 St looking south

35’ wide one-way street
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Proposal: Standard Bike Lanes

Standard bike lane markings indicate a dedicated lane environment for bicycles and vehicles.
Morrisania School Safety Improvements

Bicycle Network Connections: Shared Bike Lanes
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Existing Conditions: East 166 St, Union Ave to Prospect Ave

24’ wide one-way street

East 166 St at Union Ave looking south
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Proposal: Shared Bike Lanes

Shared bike lane markings indicate a shared lane environment for bicycles and vehicles and are used to complete bike networks on narrow streets.
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Proposal: Bike Network Connections

- Conventional Bicycle Lane
- Shared Lane
- Protected Bicycle Lane

Map showing proposed bike network connections in Morrisania.
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School Outreach

- Met to discuss safety concerns with 10 schools
- Met to discuss proposal with 3 schools, all of which were supportive
- Received official letters of support from 1 school (2 pending)
Appendix

Parking Impact

- Stripe parking stalls to maximize efficiency
- Add 26 angled parking spots on Trinity Ave from East 166 St to East 161 St
- Remove 1 parking space on East 166 St to improve visibility for pedestrian crossing
- Remove up to 26 parking spaces on Tinton Ave and East 163 St for daylighting and to add new parking protected bike lanes
- Remove 4 parking spaces on East 165 Street from Tinton Ave to Trinity Ave for visibility

Net Parking Loss: 5 spaces
Morrisania Street Safety Improvements

Potential Future Project: Boston Road, 3rd Ave to E. 174 St

- 337 total injuries
- 27 severe injuries
- 1 fatality
- 52% of severe injuries were pedestrians

### Injury Summary, 2014-2018 (5 Years)

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<tr>
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<tbody>
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<td>Pedestrian</td>
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<tr>
<td>Bicyclist</td>
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<tr>
<td>Motor Vehicle Occupant</td>
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<td>10</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>337</strong></td>
<td><strong>27</strong></td>
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### Fatalities

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<tbody>
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<td>Pedestrian</td>
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Morrisania Street Safety Improvements

Potential Future Project: Boston Road, 3rd Ave to E. 174 St

- **Existing**
  - Conventional Bicycle Lane
  - Shared Lane
  - Protected Bicycle Lane
  - Future Project

- **Proposed**
Thank You!

Contact: NYC DOT BX Borough Commissioner’s Office – (212) 748-6680