White Plains Rd (E 226th St to E 241st St)

Community Board 12 Transportation Committee

April 14th, 2022
Project Background

White Plains Rd

- Previous project installed on White Plains Rd in 2021 and ongoing implementation continuing this year
- Community Board request to continue project north to E 241 St
- Project limits: White Plains Rd, between E 226th St to E 241st St; 1.15 miles
- Corridor is under an elevated structure with columns in the roadbed
- Commercial and residential land use
- 2 and 5 subway services located at E 225th St, E 233rd St, Nereid Ave, and E 241st St
- Bx39, BxM11, Bx41, Bx41 SBS, and W42 bus routes
- Local truck route along White Plains Rd
Safety Data

Vision Zero

- White Plains Rd is a Vision Zero Priority Corridor
- White Plains Rd and E 233rd St is a Vision Zero Priority Intersection
- White Plains Rd and Nereid Ave is a Vision Zero Priority Intersection
Safety Data

- From 2015 to 2019, there were 325 total injuries, with 76 of them involving a pedestrian.
- 35% of all pedestrian crashes involved a vehicle failing to yield to a pedestrian while crossing with the signal in their favor.
- 22% of vehicle crashes are sideswipe collisions due to vehicles merging to and from ambiguous space.

**Table: Injury Summary, 2015-2019 (5 Years)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>76</td>
<td>10</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>11</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>238</td>
<td>7</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>325</td>
<td>18</td>
<td>0</td>
<td>18</td>
</tr>
</tbody>
</table>

*Map does not include total or severe injuries that occurred at midblock locations and locations with 10 or fewer injuries. Data is based off of NYSDOT/NYSDMV crash and injury data available as of 3/2022.*
NYC DOT Outreach

- In Winter 2022 NYC DOT Street Ambassadors spoke to residents and 137 businesses about White Plains Rd
  - Most respondents reported that they wanted more loading zones for their businesses
- Most businesses expressed double parking issues are consistent along the corridor
- Survey respondents expressed need for bike lanes due to E-Scooter Pilot in the area and individuals utilizing sidewalk

Street Ambassador conducting survey with Merchant

<table>
<thead>
<tr>
<th>Double Parking Observations Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consistently</td>
</tr>
<tr>
<td>Once or twice a day</td>
</tr>
<tr>
<td>Never/rarely</td>
</tr>
<tr>
<td>Unsure</td>
</tr>
</tbody>
</table>
Existing Conditions

Corridor Issues

• White Plains Rd varies from 60’ to 70’
• Ambiguous space between column and curb

Typical Existing: E 226th St to E 241st St

Diagram showing the existing conditions, with labeled sections for the sidewalk, parking lane, buffer, moving lane, and another parking lane. The total width is marked as 70 feet.
Existing Conditions

Bike Network

- Existing E-scooter pilot in East Bronx
- Lack of bike connections to existing north/south Protected Bike Lane on White Plains Rd and existing bike lane at E 241st St
Existing Conditions

Double Parking/ Vehicular Conflicts

White Plains Rd and E 232nd St
Existing Conditions

Visibility Issues Due to Columns

White Plains Rd and Nereid Ave
Existing Conditions

Lack of Pedestrian Crossings

White Plains Rd and E 228th St
Existing Conditions

Non-ADA Compliant Bus Stops

White Plains Rd and E 228th St
Existing Conditions

Lack of Bicycle Facilities

White Plains Rd and E 236th St
Proposal

- Move curbside parking adjacent to columns
- Install Protected Bike Lane in north/southbound directions
- Install a new signal and pedestrian crossings at E 228th St
- Install concrete Bus Boarding Islands at E 228th St, E 235th St, and E 239th St
- Install painted pedestrian spaces at intersections where feasible
- Install delineators to encourage vehicles to make slower, safer turns and to yield to pedestrians and cyclists

Proposed White Plains Rd E 226th to E 241st St
Proposal

Protected Bike Lane

- Install curbside Protected Bike Lane from E 226th St to E 241st St (1.15 miles; 2.3 Protected Bike Lane miles)
- Connects to north/south Protected Bike Lane on White Plains Rd and to east/west bike lane on E 241st St
Proposed: Protected Bike Lanes

- Street designs that include Protected Bike Lanes (PBL) 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

- Injuries to cyclists increase only 3%, despite a 61% bike volume increase

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

Protected Bike Lane: White Plains Rd and E 215th St, Bronx
Proposed: Bus Stop Under the El

- Bus Stop Under the El (BSUE) program installs Bus Boarding Islands and Bus Bulbs on these corridors to upgrade to ADA compliance
- Install Bus Boarding Islands on White Plains Rd at E 228th St, E 235th St, and E 239th St
- Similar design installed in 2021 at E 215th St and E 222nd St
Proposal: Parking Typical

E 230th St to E 231st St

- Wide parking lane stripe to allow for vehicles to navigate around columns
- 30’ channelization to allow access to fire hydrant
- Protected Bike Lane turn treatments with rubber speed humps to calm turning movements
Proposal: Concrete Bus Boarding Island

E 228th St

Wide parking lane stripe to allow vehicles to navigate around columns

Proposed concrete Bus Boarding Island

New signal and crosswalks to create safer, shorter crossings

30’ channelization to allow access to fire hydrant
Proposal: Bus Bulb

E 233 St

White Plains Rd

Markings on existing concrete Bus Bulb to guide cyclist

Ramp for cyclists

Stairs
Proposal: E 233rd St to E 241st St Cross Section

Existing

- West Sidewalk
  - Parking Lane 15’
  - Buffer 4’
  - Moving Lane 11’
  - Moving Lane 11’
  - Buffer 4’
  - Parking Lane 15’

Proposed

- West Sidewalk
  - Bike Lane 5’
  - Parking Lane 10’
  - Moving Lane 11’
  - Moving Lane 11’
  - Parking Lane 10’
  - Bike Lane 5’

- East Sidewalk

Width between curb to column is approximately 15’

Mark wide parking lane with narrow buffer to accommodate bike lane
Proposal: Narrow Parking Lane Typical

E 233rd St to E 241st St

White Plains Rd

Channelization to provide access driveway

Mark wide parking lane stripe to allow vehicles to navigate around columns

Inadequate space for parking behind column requires channelizing space
Parking and Curb Management

- On the 1.15 mile corridor each location was evaluated to determine if parking is feasible

<table>
<thead>
<tr>
<th>Design Change</th>
<th>Parking Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Bike Lane Design Treatments (daylighting, turn treatments, etc.)</td>
<td>- 95 spots</td>
</tr>
<tr>
<td>Bus Stop Under the El treatments</td>
<td>- 24 spots</td>
</tr>
<tr>
<td>Parking Additions (Relocation of bus layover space and design adjustments)</td>
<td>+ 5 spots</td>
</tr>
<tr>
<td>Total Change</td>
<td>114 spots repurposed* (106 Metered and 22 ASP)</td>
</tr>
</tbody>
</table>

* Estimates may change based on design modifications
Parking and Curb Management

- Investigate loading zones near supermarkets and retail stores:
  - Key Food Supermarket between E 232 St and E 233 St
  - Foodtown Supermarket between E 236 St and E 237 St
  - Fairbanks Lumber True Value between E 239 St and E 240 St

Truck Double Parked on White Plains Rd
Project Implementation

• In Fall 2021, NYC DOT implemented the first Protected Bike Lane on White Plains Rd, between E 214th St to E 226th St adding 0.6 miles to the Protected Bike Lane network
• In summer 2022, NYC DOT will install the rest of scope to Burke Ave and continue to monitor and address issues throughout the corridor
• This year’s project is planned to begin late Summer 2022

White Plains Rd and E 216th St, BX
Project Benefits

- Reduces vehicle conflicts under the elevated structure
- Clarifies traffic movements
- Reduces speeding
- New signal installation provides safer pedestrian crossings
- Provides safe, accessible bus stops
- Expands the Protected Bike Lane network in the Bronx

White Plains Rd and E 216th St, BX
Thank You!