Top 10% in terms of amount of fatalities and severe injuries*

*CB 11 Whites Plains Rd between Birchall Ave to E Tremont Ave
White Plains Rd Traffic Calming

Project Area

Safety Issues: Why White Plains Rd

Solutions
White Plains Rd

CB 11 - Birchall Ave to E Tremont Ave

CB 9 - E Tremont Ave to Soundview Ave

6 lanes (4 travel, 2 parking)

60’ wide roadway
Identified as a High Crash Corridor
Traffic Fatality in CB 11 in 2007
Prioritizing safety by addressing High Crash Roads
Safety Issue: Severe Crashes

8 Fatalities*

27 Fatalities/Severe Injuries per Mile**

Top 20 High Pedestrian Crash Location
White Plains Rd at Morris Park Ave

*2007-14 **2008-12
Safety Issue: Speeding

48-68% of Motorists over Speed Limit*

*White Plains Rd Corridor
Safety Issue: Weaving & Sideswipe Crashes

22% Crashes Sideswipes

*CB 11 White Plains Rd Corridor*
Safety Issue: Narrow Lanes

8.5’ Substandard Lanes

10-11’ Standard
Solutions: Traffic Calming

**EXISTING**

- 19’ Combined Parking/Moving Lane
- 11’ Moving Lane
- 11’ Moving Lane
- 19’ Combined Parking/Moving Lane

**PROPOSED**

- 14’ Wide Parking
- 11’ Moving Lane
- 11’ Moving Lane
- 14’ Wide Parking

Install 10’ Left Turn Bays

Install wide 14’ parking lane stripe

10’ Turn Bay/Flush Median
Solutions: Traffic Calming

3 Lanes
Birchall Ave to Cross Bronx Expy
Bruckner Expy to Soundview Ave

PROPOSED

4 Lanes
Cross Bronx Expy to Bruckner Expy

PROPOSED
Evaluation of Lane Removal CB 11 Area

**Congested Lane**
- 700 vehicles per hour or above

**Existing (2 lanes)**
- Maximum 296 vehicles per lane

**Proposal (1 lane + left turn bays)**
- Maximum 591 vehicles per lane
  Maximum Recorded Peak Volume (AM & PM)

**Example Intersection:**
White Plains Rd at Morris Park Ave*
- **Existing:** 27 seconds delay
- **Proposal:** 32 seconds delay

*Intersection Typical of Route Highest Peak Volume AM 8-9
Solutions: Avoids Adverse Traffic Impacts

Peak 8-9 AM

Minor Change Traffic Level of Service

Story Ave B to C - 3 Seconds (Outside of CB 11)
Solutions: Avoids Adverse Traffic Impacts

**Peak 5-6 PM**

- **Maintains Traffic Level of Service**

**Level of Service Existing**
- Morris Park Av
- E Tremont Av
- Story Av
- Lafayette Ave
- Seward Av

**Level of Service Proposed**
- Morris Park Av
- E Tremont Av
- Story Av
- Lafayette Ave
- Seward Av
Solution: Crashes, Speeding and Sideswipes

Existing
Solution: Crashes, Speeding and Sideswipes

Proposed
Solution: Narrow Lanes

Dangerous Substandard 8.5’ Lane Widths

Existing

White Plains Rd

E Tremont Ave

25’
Solution: Narrow Lanes

Increase Lane Width 11’
Improve Traffic Flow

Provide for Heavy Right Turns
165 VPH AM
127 VPH PM

LOW
20 VPH AM
24 VPH PM

E Tremont Ave
White Plains Rd
Proposal Elements & Benefits

Painted Median and Parking Stripe
- Less weaving and better organized traffic
- Safer pedestrian crossings
- Removes excess capacity and reduces ability to speed

Left Turn Bays
- Simpler, safer left turns

Increase Width of Substandard Lanes (White Plains Rd at E Tremont Ave)
- Improved traffic flow
- Safer distance between cars
Questions?

Thank You
### White Plains Road, Bronx from Birchall Ave to O'Brien Ave
#### Signalized Intersections LOS Comparison Summary – Existing & Build Conditions

**AM Peak**

<table>
<thead>
<tr>
<th>Cross Street</th>
<th>Intersection Approach</th>
<th>Signal timing splits/offsets</th>
<th>2013 Existing 4 lanes</th>
<th>Build 3 lanes (2 through &amp; dedicated LT Bay)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mvmt2</td>
<td>Volume3</td>
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<tr>
<td>Morris Park Ave</td>
<td>EB</td>
<td>40</td>
<td>2 L/T/R</td>
<td>95/352/43</td>
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<tr>
<td></td>
<td>WB</td>
<td></td>
<td>2 L/T/R</td>
<td>137/378/52</td>
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<tr>
<td></td>
<td>NB</td>
<td>50</td>
<td>2 L/T/R</td>
<td>63/268/180</td>
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<td>SB</td>
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<td>2 L/T/R</td>
<td>28/410/153</td>
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<td>E Tremont Ave</td>
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<td>2 L/T</td>
<td>106/564</td>
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<td>1 R Defacto</td>
<td>95</td>
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<td></td>
<td>WB</td>
<td></td>
<td>2 L/T</td>
<td>100/846</td>
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<td>1 R Defacto</td>
<td>15</td>
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<tr>
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<td>NB</td>
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<td>2 L/T/R</td>
<td>121/263</td>
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<td>55/83/55</td>
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<td>14/160/150</td>
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<td>NB</td>
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</table>

**Notes:**

1. Intersection approaches: EB= eastbound, WB= westbound, NB= northbound, SB= southbound
2. Intersection movements: # of lanes in lane group, L=left turn, T=through, R=right turn, L/T=left-through, T/R=through-right
3. Volume L/T/R= # of left turn vehicles/# of through vehicles/# of right turn vehicles
## White Plains Road, Bronx from Birchall Ave to O'Brien Ave
### Signalized Intersections LOS Comparison Summary - Existing & Build Conditions
#### PM Peak

**NB/SB= Major, White Plains Rd**
**EB/WB= Minor, Cross Street**

<table>
<thead>
<tr>
<th>Cross street</th>
<th>Intersection Approach</th>
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<tbody>
<tr>
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<td>Mvmt2</td>
<td>Volume</td>
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<tr>
<td>1 Morris Park Ave</td>
<td>EB</td>
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<td>2 L/T/R</td>
<td>13/45/54</td>
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<td>4 Seward Ave</td>
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<td>Offset: 0</td>
<td>Overall Intersection: 13.7</td>
<td>B</td>
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</tr>
</tbody>
</table>

**Notes:**

1. Intersection approaches: EB=westbound, WB=westbound, NB=westbound, SB=westbound
2. Intersection movements: # of lanes in lane group, L=left turn, T=through, R=right turn, L/T=left-through, T/R=through-right
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