3RD AVE, MARINE AVE TO 99TH ST

Presentation to CB 10 Transportation Committee

October 17, 2019
PROJECT AREA

• Residential area with some commercial use

• Proximity to the R Train

• Bus stops on 3rd Ave for B37, B16, x27, x37, and B63

• Nearby Schools – Fontbonne Hall Academy

• Senior Safety Area
### SAFETY DATA

**3rd Ave from Marine to 99th St, BK**
Injury Summary, 2013-2017 (5 years)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>Bicyclists</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
<td>2</td>
</tr>
</tbody>
</table>
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• Met with Fontbonne Hall Academy October 1, 2019
Existing Conditions
1 Long crossing distances
EXISTING MARINE AVE AND 3RD AVE

1. Soft turns allow for vehicles to turn at higher speeds

2. Existing crosswalk has no access to a pedestrian ramp

3. Segment of 99th St is not part of the signalized intersection
3. Existing crosswalk set back from 99th St making pedestrians less visible to turning vehicles.
Stop control beyond the stop bar for the signalized intersection creates confusion for vehicles.
EXISTING MARINE AVE AND 3RD AVE

Vehicles turning from the stop control cannot see other movements that may have the green signal.
PRE 2015 SIGNAL INSTALLATION

Visibility issues of vehicles simultaneously turning onto 3\textsuperscript{rd} Ave

Over 900’ to the next crosswalk
Due to proximity (this leg of 99th St being less than 150' away) 99th St was added to the Marine Ave signal.
EXISTING SIGNAL PHASING – 90 SECONDS

PHASE A – 40 seconds

PHASE B – 7 seconds

PHASE C – 21 seconds

PHASE D – 22 seconds
If the east leg of 99th St was added to the existing signal at the west leg of 99th St, it creates conflict with both sides of 99th St going with the green signal.
Proposal
PROPOSAL MARINE AVE AND 3RD AVE

1. Reverse 99th St from 3rd Ave to Shore Rd

Street Conversions
PROPOSAL MARINE AVE AND 3RD AVE

1. Reverse 99th St from 3rd Ave to Shore Rd

2. Signalize east leg of 99th St at 3rd Ave

Traffic Signal
**PROPOSAL MARINE AVE AND 3{superscript}RD AVE**

1. Reverse 99{superscript}th St from 3{superscript}rd Ave to Shore Rd

2. Signalize east leg of 99{superscript}th St at 3{superscript}rd Ave

3. Shift existing crosswalk and add crosswalk on other side of 99{superscript}th St on 3{superscript}rd Ave
4. Install 3 sidewalk extensions in paint and concrete to shorten crossing distances, increase visibility, and slow turns.
PROPOSAL MARINE AVE AND 3RD AVE

5 Harden centerline to slow turns onto Marine Ave and 3rd Ave

Hardened Centerline
PROPOSAL MARINE AVE AND 3RD AVE

- Harden centerline to slow turns onto Marine Ave and 3rd Ave
- Hardened centerline at Amsterdam Ave and W 96th St, MN
PROPOSED SIGNAL PHASING

PHASE A – 45 seconds

PHASE B – 7 seconds

PHASE C - 38 seconds

PHASE A – 45 seconds

PHASE B – 45 seconds
Existing: 3rd Ave at Marine Ave

Proposed Rendering: facing north on 3rd Ave at Marine Ave
SUMMARY

- Reverse 99th St between 3rd Ave and Shore Rd
- Signalize east leg of 99th St at 3rd Ave
- Add 3 curb extensions
- Harden centerline on 3rd Ave and Marine Ave
BENEFITS

• Shortens pedestrian crossing distances
• Increases visibility of pedestrians
• Slows turning vehicles
• Clarifies vehicular movements
• Improves Level of Service
THANK YOU!

Questions?
appendix
DIVERSION PLAN

Diverting 30 vehicles in both the morning and evening peak hours

Diverting 130 vehicles during morning peak hour, and 30 vehicles in evening peak hour