Background
BACKGROUND: EASTERN PKWY

Ongoing Work

Service road intersection to be upgraded to signal
Service road intersection signalization complete

Before (2017)
Bedford Ave service road

After (2018)
Bedford Ave service road with signalized control and new crosswalk
BACKGROUND: EASTERN PKWY AND BUFFALO AVE

• High traffic area that connects Eastern Pkwy to Rockaway Pkwy
• Adjacent to Lincoln Terrace Park
• Nearby B12 and B14 bus stops, and Utica Ave subway station
• Eastern Pkwy is a Vision Zero Corridor
BACKGROUND: BUFFALO AVE

- Conventional bike lanes were installed in 2010
- Multiple schools along East New York Ave
- Rockaway Pkwy is a Vision Zero Corridor
- NYPD request to improve safety of intersection due to high crash history
- 75% of pedestrian injuries occur due to turning vehicles

### Injury Summary, 2015-2019 (5 years)

<table>
<thead>
<tr>
<th></th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>29</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Bicyclists</td>
<td>7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Motor Vehicle</td>
<td>215</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>251</td>
<td>7</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: Fatalities: NYCDOT, Injuries: NYSDOT
Existing Conditions
EXISTING CONDITIONS: EASTERN PKWY AND BUFFALO AVE

- Uncontrolled and unmarked crosswalks throughout intersection

Eastern Pkwy eastbound service road facing east at Buffalo Ave
EXISTING CONDITIONS: EASTERN PKWY AND BUFFALO AVE

- Double northbound left turn is required to yield to pedestrians on west crosswalk

Buffalo Ave facing north at Eastern Pkwy
EXISTING CONDITIONS: EASTERN PKWY AND BUFFALO AVE

- Shared lane for left turn and through movements cause delay for both
- Dedicated right turn lane has low volume

Buffalo Ave facing south at Eastern Pkwy
EXISTING CONDITIONS: BUFFALO AVE

- Conventional bike lanes leave bicyclists unprotected from adjacent travel lane

Buffalo Ave facing north midblock from Eastern Pkwy
EXISTING CONDITIONS: BUFFALO AVE

- Lane split at Rockaway Pkwy and East New York Ave causes conflict between bicyclists and vehicles

Buffalo Ave facing south at approach of E New York Ave
Proposed
TOOLKIT

Crosswalks

Traffic Signals

Pedestrian Signals

Lane Destination Markings

Protected Bike Lanes

Qwick Kurb

Painted Curb Extensions
• Move northbound through movement to right-most lane
• Reconfigure signal phasing to have northbound left turn vehicles move separately from pedestrians
PROPOSED

• Signalize service roads and all crosswalks with new crosswalk across the north malls
PROPOSED: BUFFALO AVE

- Upgrade conventional bike lanes from Eastern Pkwy to E New York Ave to parking protected bike lanes
• Install Qwick Kurb vertical barriers to slow southbound right turn vehicles and improve yielding to bicyclists
• Install painted pedestrian island to shorten crosswalk
SUMMARY

• Remove double left turn conflict with pedestrians
• Reconfigure lane markings to be more efficient
• Signalize service roads and all crosswalks
• Add crosswalk between north malls
• Upgrade conventional bike lanes to parking protected lanes
• Increase yielding to bicyclists at southbound turning approach
• Installed painted pedestrian island
BENEFITS

- Reduced vehicle conflicts with pedestrians and bicyclists
- Completes the pedestrian network
- Shorter and safer pedestrian crossings
- Safer bicycle routes
- Clarified traffic movements