Riverdale Ave (W 254 St to W 263 St)

Presentation to Bronx Community Board 8 Traffic & Transportation Committee
March 31st, 2022
Riverdale Ave

Project Location

- Project limits: Riverdale Ave, W 254th St to W 263rd St; 0.76 mile
- Commercial and residential land use
- Bx7, Bx10, BxM1, BxM2, and BxM18 bus routes
- Area has a high concentration of students due to several nearby schools, including P.S. 081 Robert J. Christen, SAR High School, St. Margaret of Cortona School, and College of Mount Saint Vincent
- Senior facilities located within the North Riverdale area are heavy senior pedestrian generators
Riverdale Ave

Safety Data

- From 2015 to 2019, there were 66 total injuries, 26 of them involving a pedestrian
- 2 senior pedestrian fatalities on Riverdale Ave, 1 at W 258th St in 2015 and 1 at W 263rd St in 2018
- 1 motor vehicle fatality at W 256th St in 2018

<table>
<thead>
<tr>
<th>Injury Summary, 2015-2019 (5 Years)</th>
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<tbody>
<tr>
<td>Passenger</td>
</tr>
<tr>
<td>Pedestrian</td>
</tr>
<tr>
<td>Bicyclist</td>
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<tr>
<td>Motor Vehicle Occupant</td>
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<tr>
<td>Total</td>
</tr>
</tbody>
</table>

Source: Fatalities: NYCDOT, Injuries: NYSDOT KSI: Persons Killed or Severely Injured
Note: Map may not include total or severe injuries that occurred at midblock locations. Data is based off of NYSDOT/NYSDMV crash and injury data available as of February 2022.
Riverdale Ave

Safety Data

55% of pedestrian crashes occurred while a pedestrian was crossing with the signal in their favor.

58% of pedestrian crashes occurred while a driver was making a left turn.

34% of motor-vehicle injuries caused by rear-end collisions, indicative of speeding.
**Existing Conditions**

- **60’ wide roadway with 2 travel lanes + parking in both directions**
- **Frequent double parking**
- **Long crossing distances**
- **Shared through/ left turn lane causes unpredictable vehicle maneuvers**
Riverdale Ave

Existing Conditions

• Requests from Riverdale Main Streets Alliance and State Senator Biaggi for safety improvements on Riverdale Ave
• Excess roadway and low volumes result in open road conducive to speeding
• Traffic volumes
  • Peak AM Volume (Vehicles per hour): Northbound: 368, Southbound: 457
  • Peak PM Volume (Vehicles per hour): Northbound: 410, Southbound: 476
Corridor Proposal

**Existing**

West Sidewalk

19’ Combined Travel/Parking Lane

11’ Travel Lane

11’ Travel Lane

19’ Combined Travel/Parking Lane

East Sidewalk

**Proposed**

West Sidewalk

9’ Parking Lane

5’ Bike Lane

11’ Travel Lane

10’ Turn Bay/Flush Median

11’ Travel Lane

5’ Bike Lane

9’ Parking Lane

East Sidewalk
Safety Improvements

Previous Projects

• Similar projects installed throughout the city have resulted in a decrease in injuries and crashes as well as reductions in speeding
  • Burke Ave, BX
    • 47% reduction in total injuries
  • Baychester Ave, BX
    • 22% reduction in total injuries
  • Morris Park Ave, BX
    • 42% reduction in total injuries
    • 37% reduction in motor vehicle injuries
Corridor Proposal

Evaluation of Lane Removal

**Congested Lane**

700 vehicles per hour or above

**Existing (2 lanes)**

238 vehicles per lane

**Proposal (1 lane + left turn bays)**

476 vehicles per lane
Corridor Proposal

- Defined parking lane delineates parked vehicles
- Standard width travel lanes define narrower moving lanes
- Center median and turn bay better organize traffic and allow turning vehicles to yield to oncoming traffic and pedestrians before safely taking a left turn
- 5’ bike lane puts cyclists in predictable location

Similar Configuration: Morris Park Ave, BX
Corridor Proposal

Organizing Traffic

Existing Conditions

Left turning vehicles waiting for a gap in oncoming traffic block vehicles behind them:
- Creates dangerous swerving conditions
- Slows through vehicles

Proposed Conditions

Left turn bays organize traffic by allowing left turning vehicles their own space to wait for oncoming traffic and pedestrians to safely cross and a gap in traffic before turning left.
Corridor Proposal

Limited Bike Connections in North Riverdale

Bike lanes on Riverdale Ave will:

• Provide a safe, convenient, connection to Broadway via Mosholu Ave
• Improves access to Van Cortlandt Park
Project Benefits

- Reduces speeding and calms traffic on Riverdale Ave
- Enhances safety by organizing the roadway and providing defined spaces for vehicles and bicycles
- Improves safety for all roadway users by encouraging slower, safer turns onto and off of Riverdale Ave
- Creates an important, safe connection in the Bronx bike network

Similar Configuration: E 106th St, Manhattan
Thank You!