

# Richmond Avenue

## High Crash Corridor Safety Improvements

2014

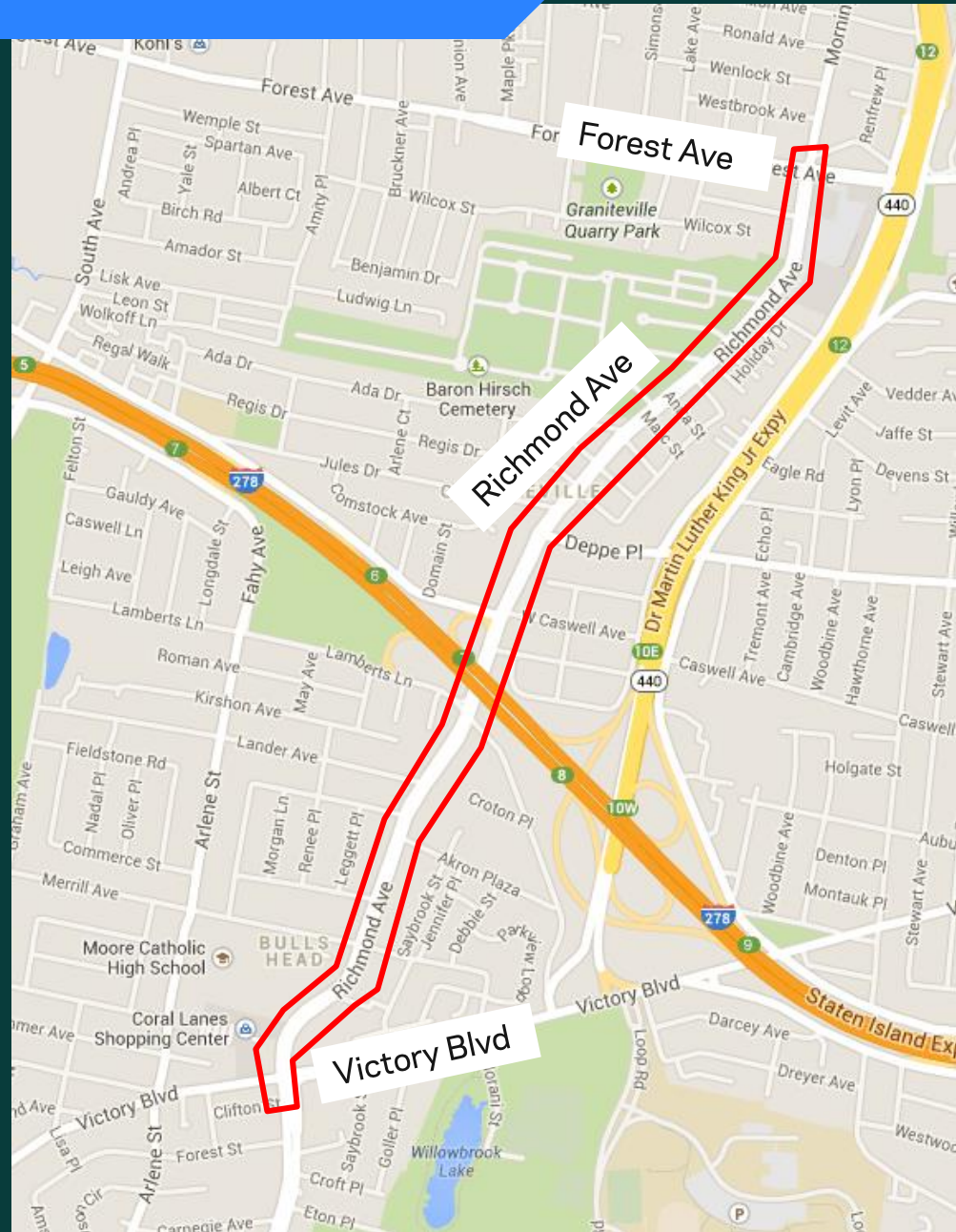


Commissioner Polly Trottenberg, New York City Department of Transportation  
Presented by Office of Research, Implementation & Safety to Community Board 2 Transportation Committee on  
June 2, 2014



# Project Location

- 1.5-mile curving road, with long stretches without signals
- S44, S59, S89, S94 & X10, X12, X17, X42 bus routes
- Local truck route
- Connects to Staten Island Expressway
- Mix of residential and shopping center retail



# Safety Data: Project Need



## Injury Summary, 2008-2012 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	57	4	1	5
Bicyclist	2	0	0	0
Motor Vehicle Occupant	338	19	0	19
Total	397	23	1	24

Fatalities, 01/01/2008-3/3/2014

1

Source: Fatalities: NYCDOT  
Injuries: NYSDOT  
KSI: Persons Killed or  
Severely Injured

**24 KSI (persons killed or severely injured) along Richmond Ave**

**1 pedestrian fatality at Richmond Ave & Morani St in 2010**

- Richmond Ave is a designated High Crash Corridor with 16.2 KSI per mile, ranking in the top 10% of Staten Island corridors
- 2011 High Pedestrian Crash Location at Richmond Ave & Morani St

## Injuries by Year, 2008-2012

Year	Pedestrian
2008	10
2009	10
2010	6
2011	12
2012	19
Total	57

# Existing Conditions

- 80-ft wide roadway with two through lanes in each direction, left turn bays and wide 14-ft painted center median
- Oversized travel lanes and inconsistent lane widths
- High speeds: Peak speeds of 54mph recorded on several corridor segments with over 60% of drivers traveling over the speed limit
- Frequent curb cuts for driveways and shopping centers
- Peak vehicles per hour of ~1,400 northbound and ~1,000 southbound





# Corridor Proposal Details

- Modify painted median and install parking lane stripes to standardize moving lanes and calm traffic along corridor —
- Concrete, planted median in key locations —
- Pedestrian safety islands at: ☆
  - Jules Dr,
  - Deppe Pl, and
  - Merrill Ave/ Morani St
- High-visibility crosswalks at: ☆
  - Lamberts Ln/Christopher Ln
  - Victory Blvd





# Intersection Specific Proposal Details

Richmond Ave at Victory Blvd





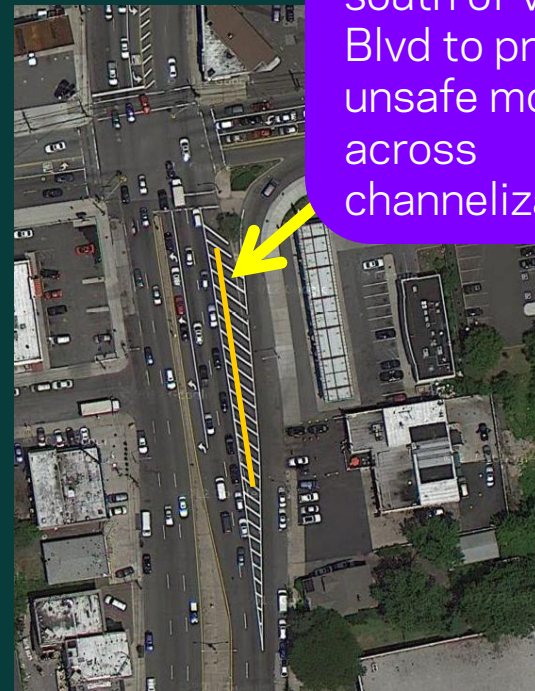
# Intersection Specific Proposal Details

## Richmond Ave at Victory Blvd

Install high-visibility crosswalks



Install kwik kurb on Richmond Ave south of Victory Blvd to prevent unsafe movements across channelization



# Intersection Specific Proposal Details

## Richmond Ave at Merrill Ave / Morani St

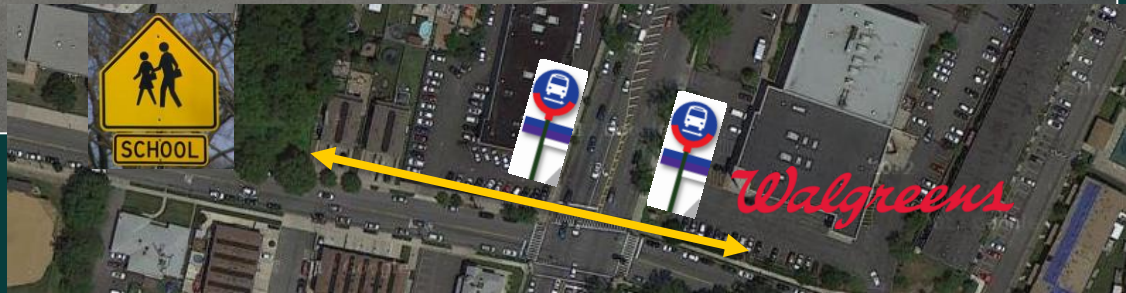
Top 20 High Pedestrian  
Crash Location to be  
addressed under NYC  
Local Law 12



Street Team  
target location

All pedestrian-vehicle  
collisions occurred  
while crossing  
Richmond Ave

Pedestrian fatality  
occurred in north  
crosswalk





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Install concrete  
pedestrian safety  
island (requires left  
turn ban)

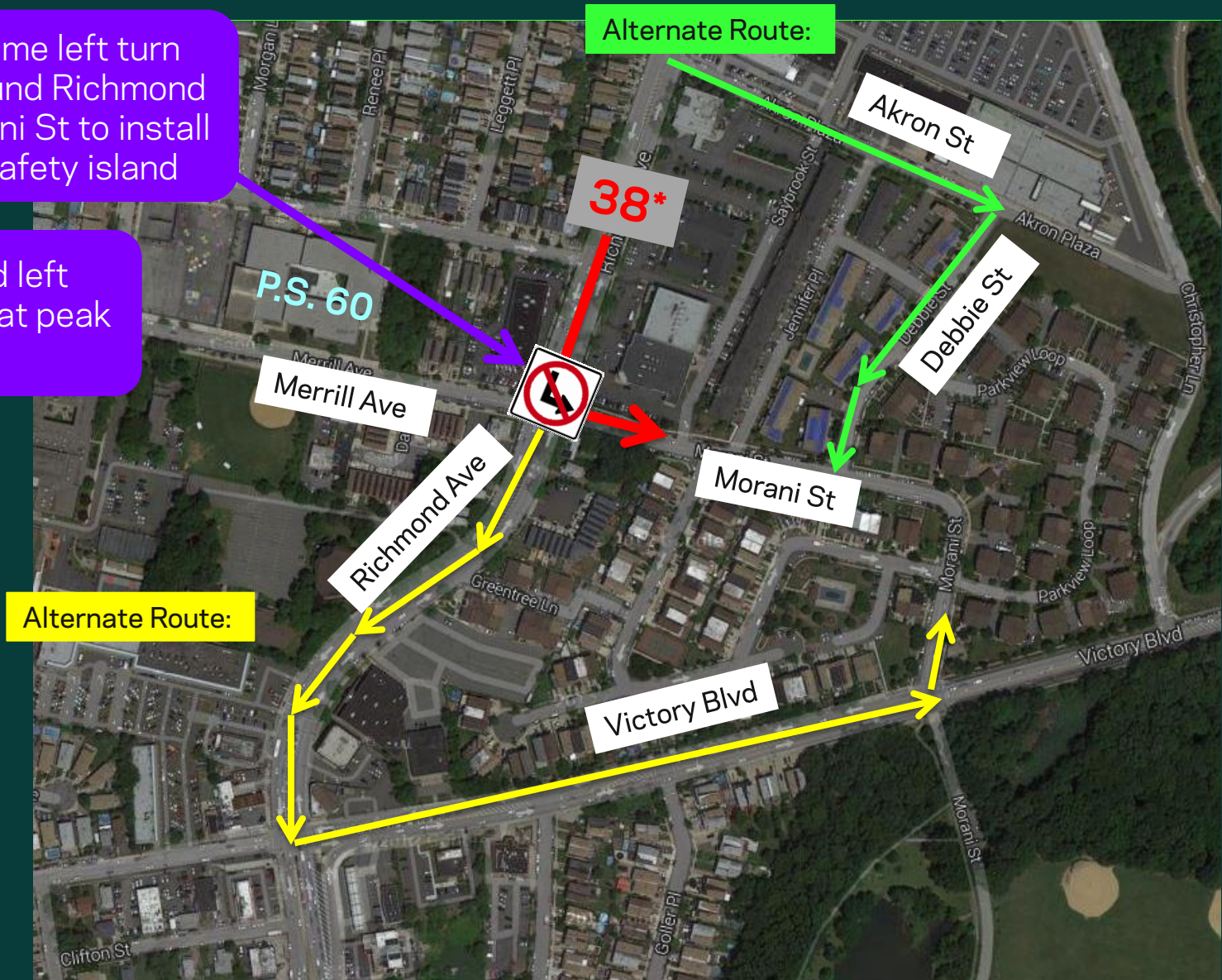


Install parking lane  
stripe to calm traffic

# Turn Ban Proposal & Alternate Routes

Ban low-volume left turn from southbound Richmond Ave onto Morani St to install pedestrian safety island

38 southbound left turns per hour at peak (1-2 per cycle)



\*Peak hour volume, 6:00-7:00pm



# Benefits of Pedestrian Island

Addresses pedestrian safety at this High Pedestrian Crash Location (per Local Law 12) and Vision Zero Street Team location

Safer crossing near school and between bus stops



Shortens crossing distance and provides pedestrian refuge space

Reduces pedestrian vehicle-conflicts

Slows turning vehicles





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# Benefits of Proposal

- Standardizing the lane widths with painted and concrete medians and wide parking lane stripes help reduce speeding and calm traffic
- Concrete medians eliminate dangerous left turns from side streets across multiple lanes of traffic and help prevent head-on crashes
- Parking lane stripes provide safe buffer space for drivers exiting parked vehicles, space for buses to pull over without blocking through traffic, and better visibility for entering vehicles
- Pedestrian safety islands shorten crossing distances and create safer pedestrian crossings; turn ban reduces pedestrian-vehicle conflicts
- Planted medians beautify corridor



Proposed Conditions: Hillside Ave, Queens

Questions?

**Thank  
You**

Contact:  
Staten Island Borough Commissioner's Office at (212) 839-2400