

# Linden Blvd: Van Sinderen Ave to 78 St

## Corridor Safety Improvements

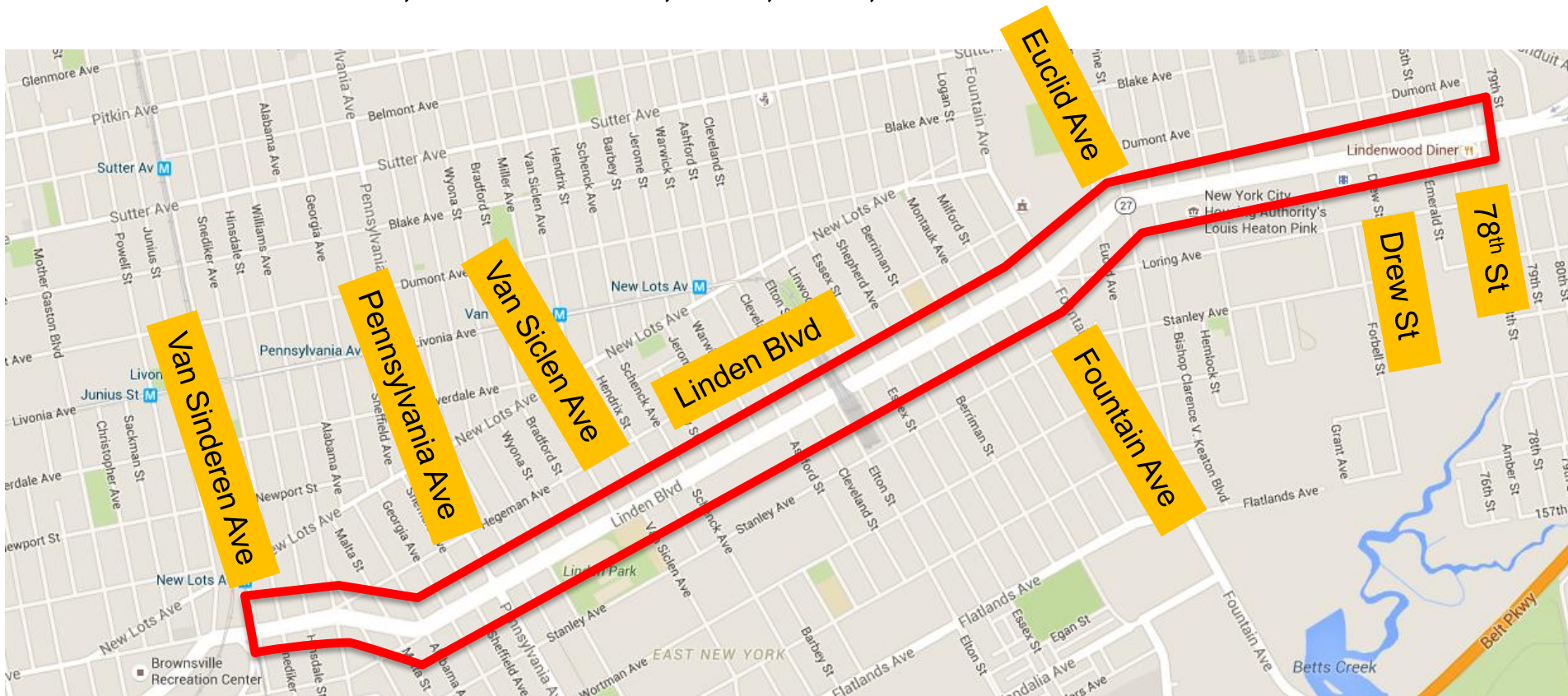
2016





# Project Location

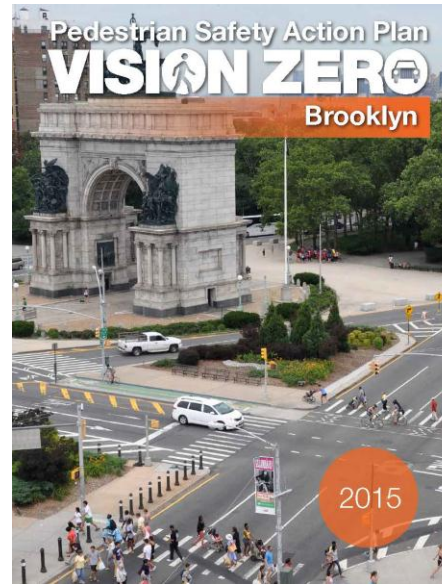
- Phase II of Linden Blvd (Van Sinderen Ave to 78 St)
- 2.4 miles of a major east/west corridor in Eastern Brooklyn
- Residential, light industrial, and commercial land use
- Heavy vehicle volumes at rush hours
- Local truck route; **Buses:** B13, B15, B20, and BM5



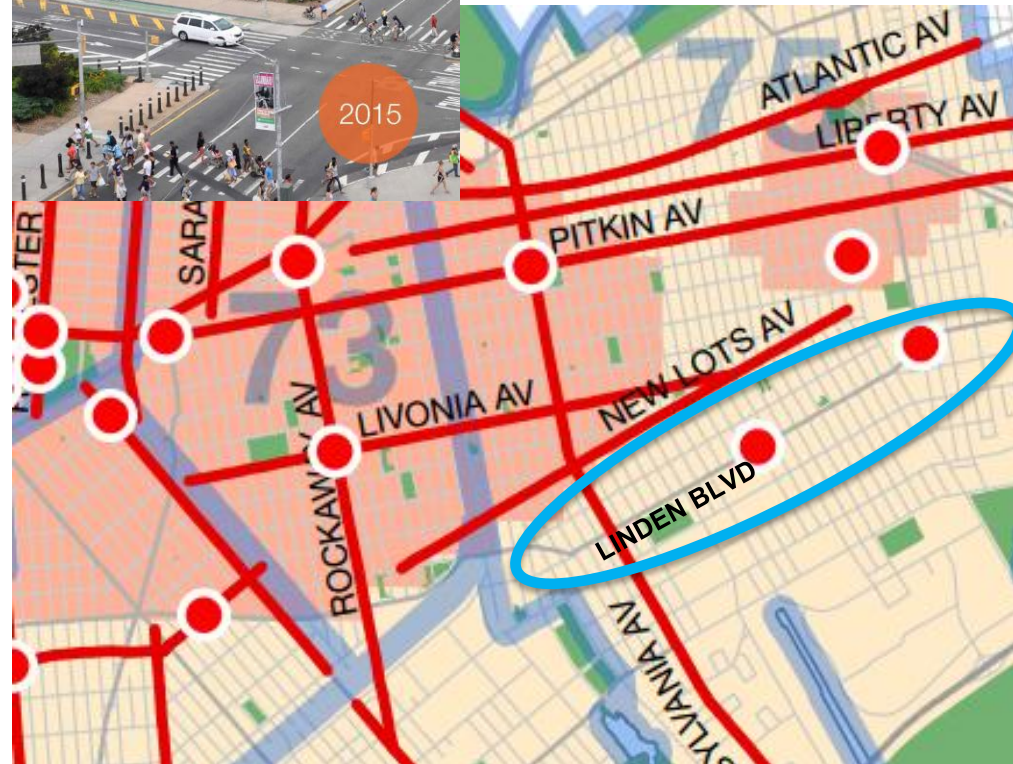
# Vision Zero Priority Corridors

## Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2015
- Priority Intersections, Corridors, and Areas identified for each borough
- On Linden Blvd:
  - Ashford St and Euclid Ave were identified as a Priority Intersections for Brooklyn



Brooklyn Priority Map





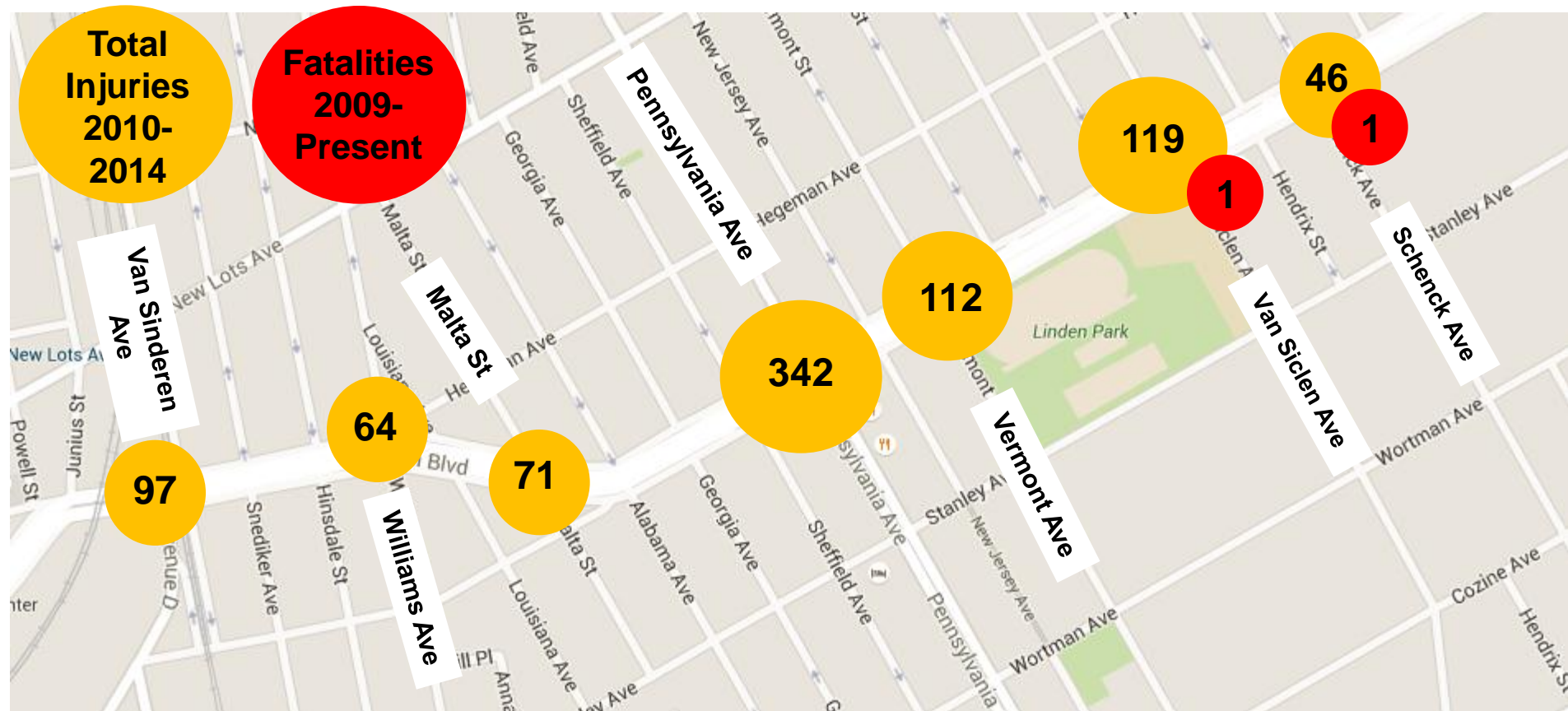
# Safety Data: Project Need

- 66 KSI (persons killed or severely injured)
- 1671 total injuries
- 4 Fatalities since 2009

Linden Blvd - Van Sinderen Ave to 78 St, BK

Injury Summary, 2010-2014 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	99	15	0	15
Bicyclist	33	5	2	7
Motor Vehicle Occupant	1539	44	0	44
Total	1671	64	2	66

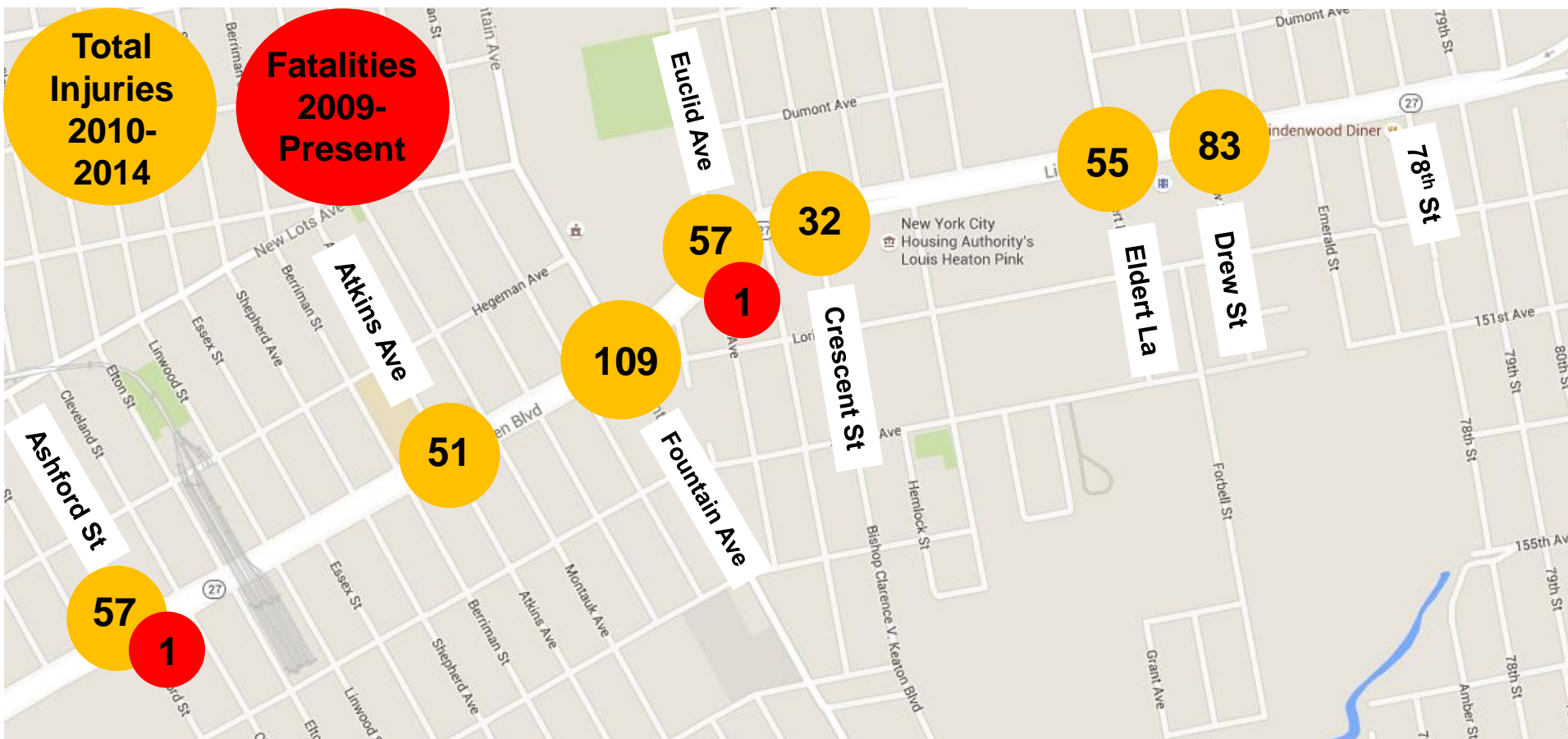


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# Outreach- Community Workshops

Workshops held in February 2015 to get feedback from community on top issues with Linden Blvd



Linden Blvd Safety Workshop  
February 5<sup>th</sup>, 2015  
United Community Centers



**SUBJECT:** Join the New York City Department of Transportation (DOT) to discuss traffic safety on Linden Boulevard between Kings Highway and 78th Street at two public workshops in Brownsville and East New York.

(Light refreshments available)

**DATE:**

Thursday, February 5, 2015

**TIME:**

6:30 - 8:30 p.m.

**LOCATION:**

United Community Centers  
613 New Lots Avenue, Brooklyn, NY 11207

Thursday, February 12, 2015

6:30 - 8:30 p.m.

Brownsville Recreation Center  
1555 Linden Boulevard, Brooklyn, NY 11212

**Contact:** DOT Brooklyn Borough Commissioner's Office at (718) 222-7259

**Workshop Goals:**

Identify street safety concerns

Gather community input

Discuss street design solutions

Brainstorm ways to enhance safety on Linden Boulevard



Habrará un intérprete disponible en la reunión.






# Outreach- Interactive Website

- Interactive website allowed community members to submit their top issues to DOT

< LINDEN BOULEVARD

NY-27  
New York  
View on Google Maps

Return to Map



**No Crosswalk** 02/05/2015 - 21:41  
Why is there no crosswalk here?  
Average: 2 (1 vote)

**Failure to Yield** 02/05/2015 - 21:40  
I have almost been hit in the west crosswalk by cars turning fast from Euclid Ave  
Average: 3 (1 vote)

**Dangerous Merge** 02/05/2015 - 21:39  
Cars almost hit each other here  
Average: 3 (1 vote)

**Long Distance to Cross** 02/05/2015 - 21:37  
I get stuck on the small concrete in the middle of the street here.  
Average: 4 (1 vote)

**Not Enough Time to Cross** 02/05/2015 - 21:35  
There is not enough time to cross at Fountain Ave. Can you increase the walk signal?  
No votes yet

**Jaywalking** 02/05/2015 - 21:19  
Kids are walking across the street here  
No votes yet

# Top Issues

Long Crossing  
Distances

Not Enough Time  
to Cross





# Top Issues

Not Enough Space to Wait





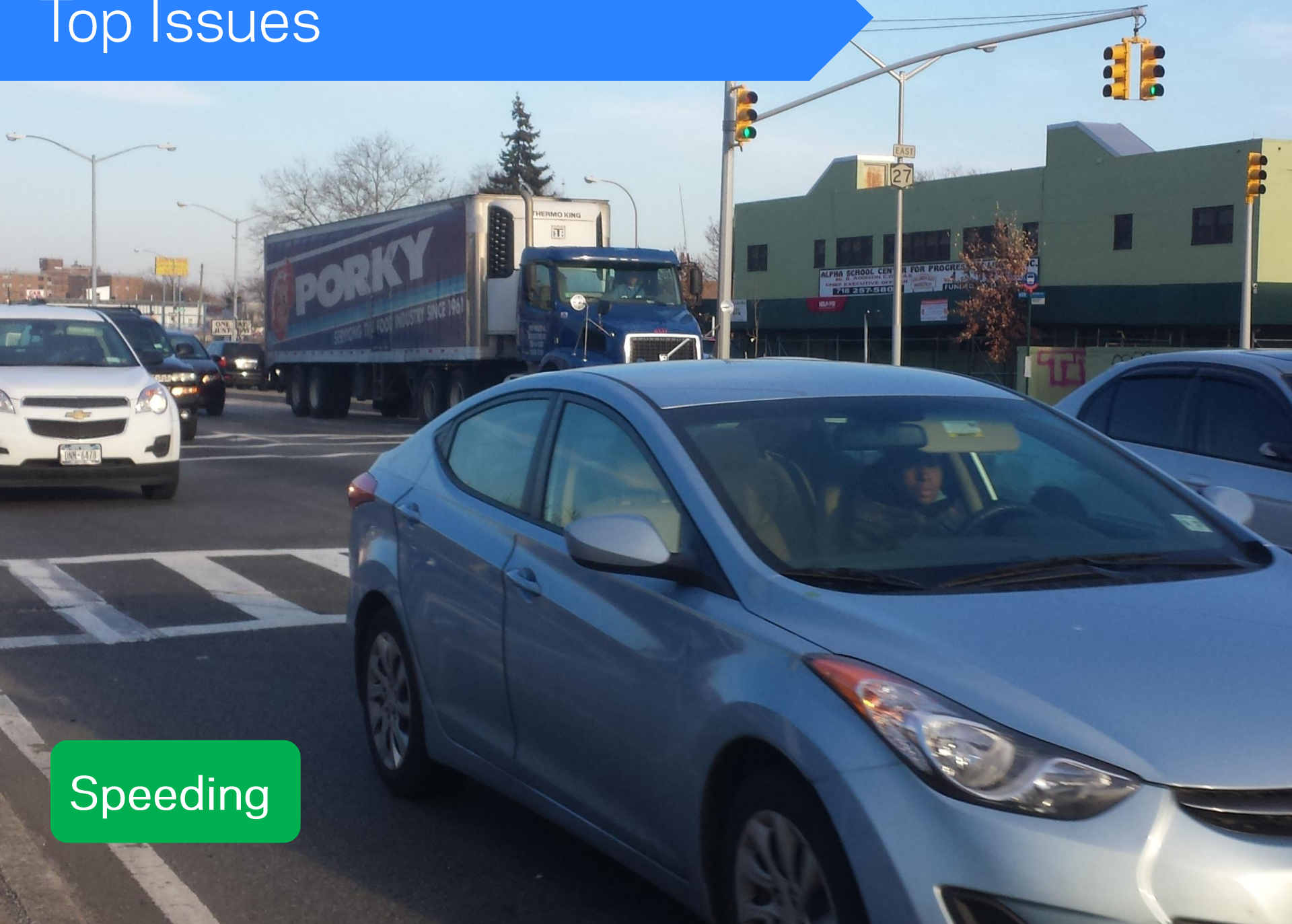
# Top Issues



Lack of left turn  
arrows at select  
intersections



# Top Issues



Speeding



# Top Issues



Lack Of Markings on  
Service Roads

Lack of Clear  
Markings at Slips



# Top Issues

Visibility/Lighting



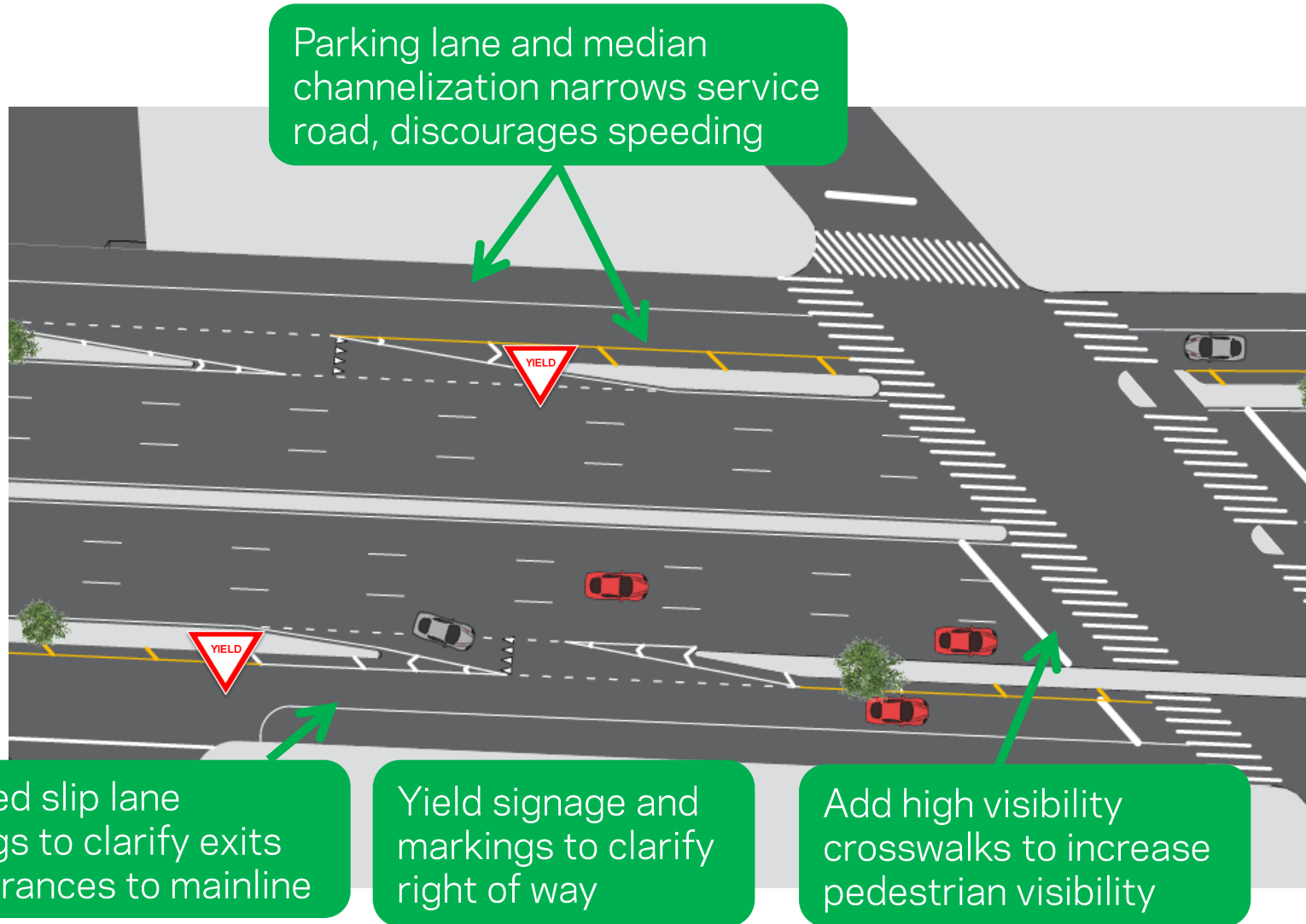
# Proposed: Speed Limit and Signal Timing

- Reduce speed limit to 30 MPH
- Add protected left turn phases at:
  - Hinsdale St
  - Malta St
  - Alabama Ave
  - Vermont St
  - Schenck Ave
  - Fountain Ave
  - Crescent St
  - Eldert Ln
  - Drew St

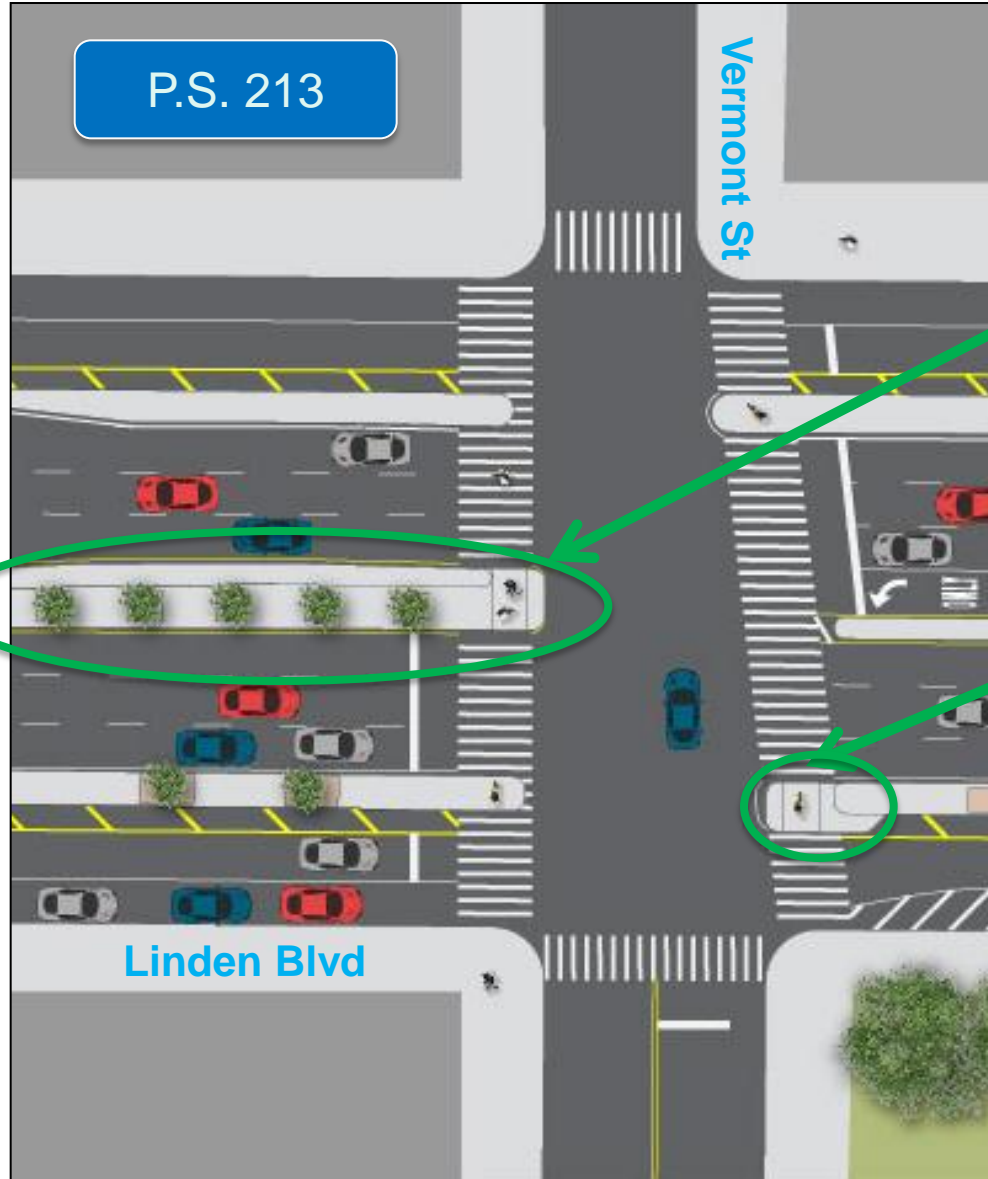




# Proposed: Markings & Signage



# Proposed: Vermont Street

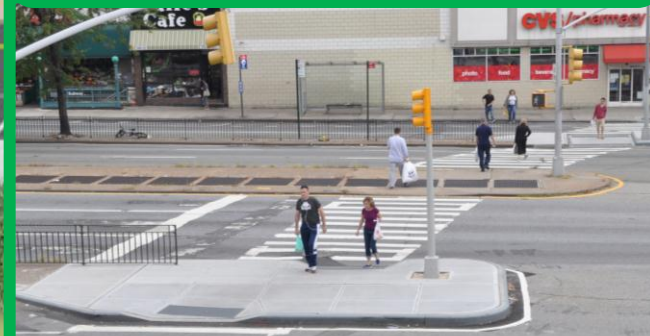


Ban low volume left turn to Vermont St. and construct improved median with trees



Example: center median

Construct median tip extension to shorten crossing distances and provide a refuge for pedestrians

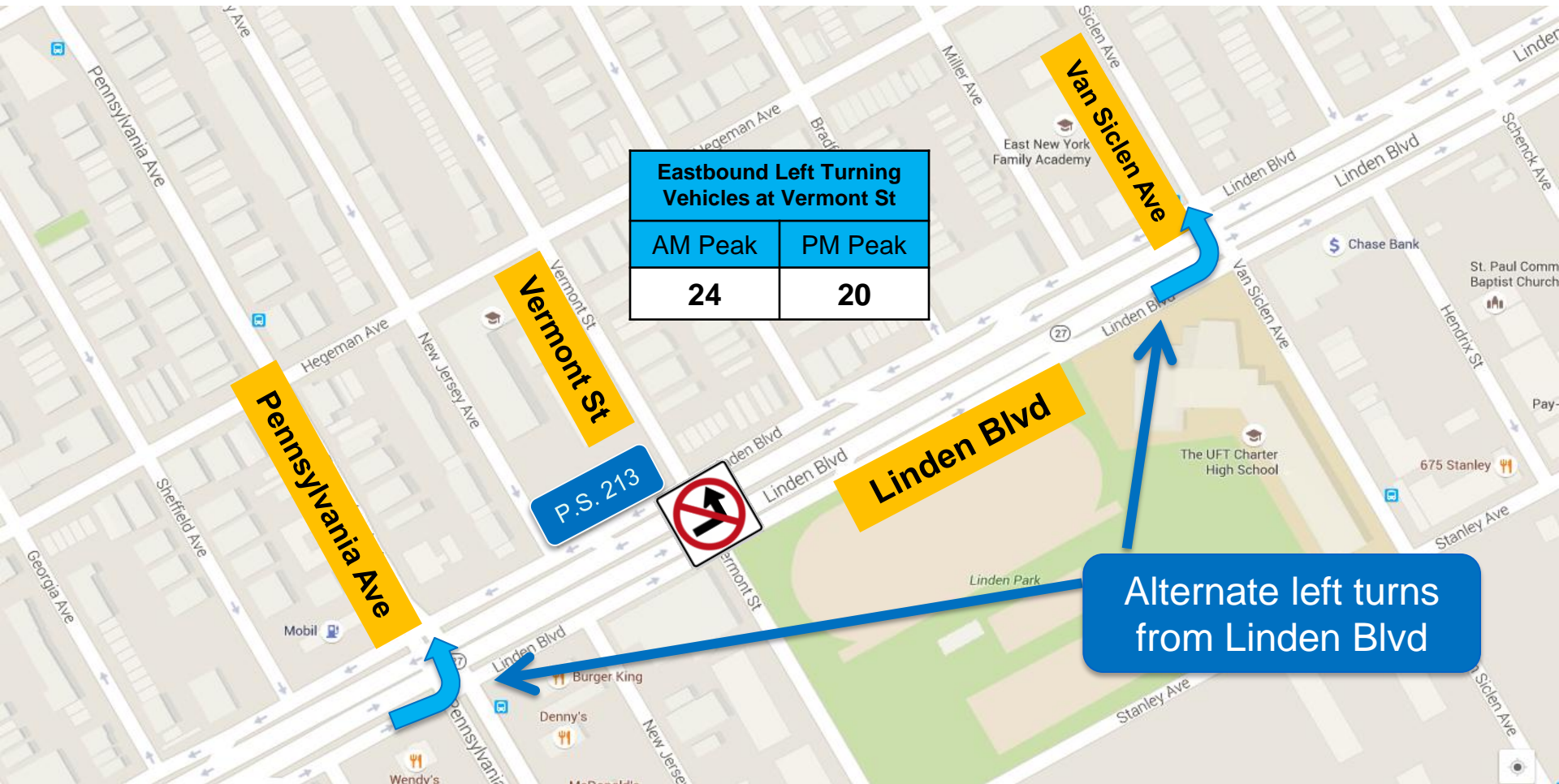


Example: median tip



# Alternate Routes: Vermont St Turn Restriction

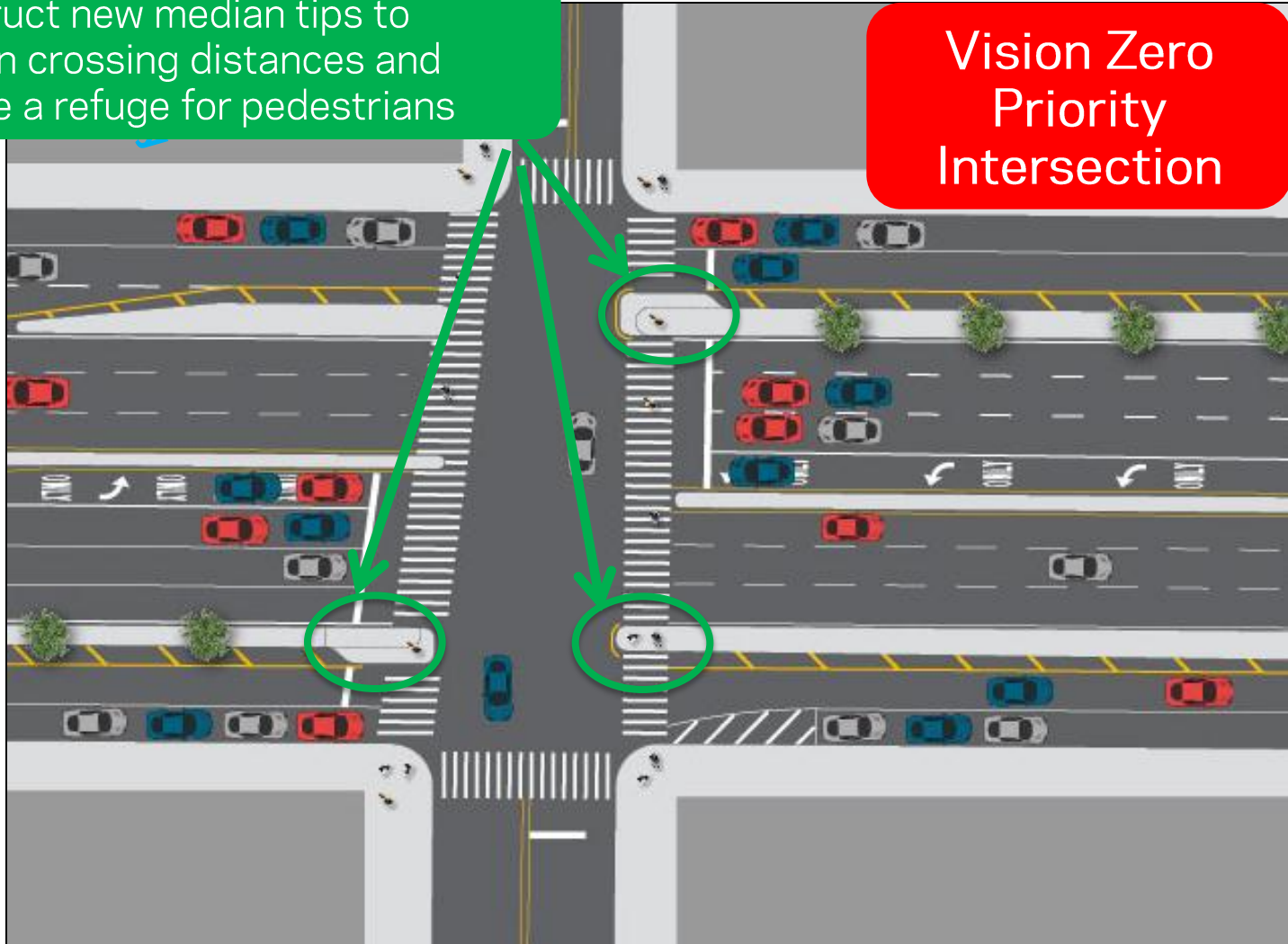
- Low volume eastbound left turns at Vermont St allow the opportunity to ban the eastbound turn to create a better pedestrian refuge crossing Linden Blvd to P.S. 213



# Proposal Details: Ashford Street

Construct new median tips to shorten crossing distances and provide a refuge for pedestrians

Vision Zero  
Priority  
Intersection

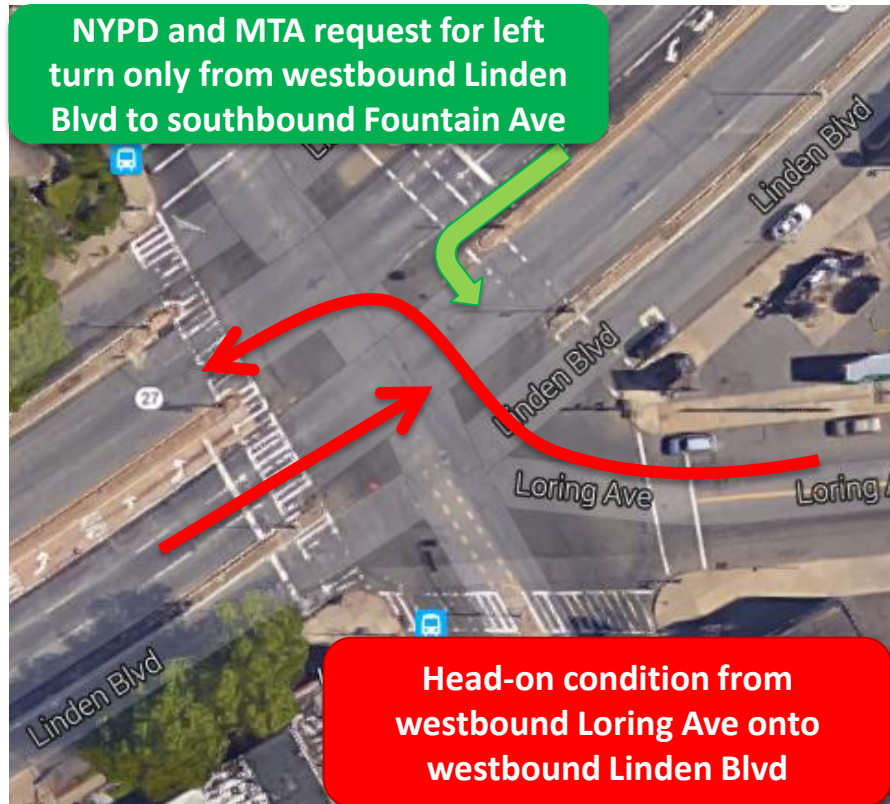




# Proposal Details: Fountain Ave

## Existing Conditions:

- Complicated intersection with 101 motor vehicle crashes
- Head-on condition: eastbound Linden Blvd and westbound Loring Ave
- 75 Precinct and MTA request for left turn only signal for westbound Linden Blvd to southbound Fountain Ave (Q8 bus makes this turn)
- Pedestrian desire line: crossing Fountain Ave to stay on south side of Linden Blvd



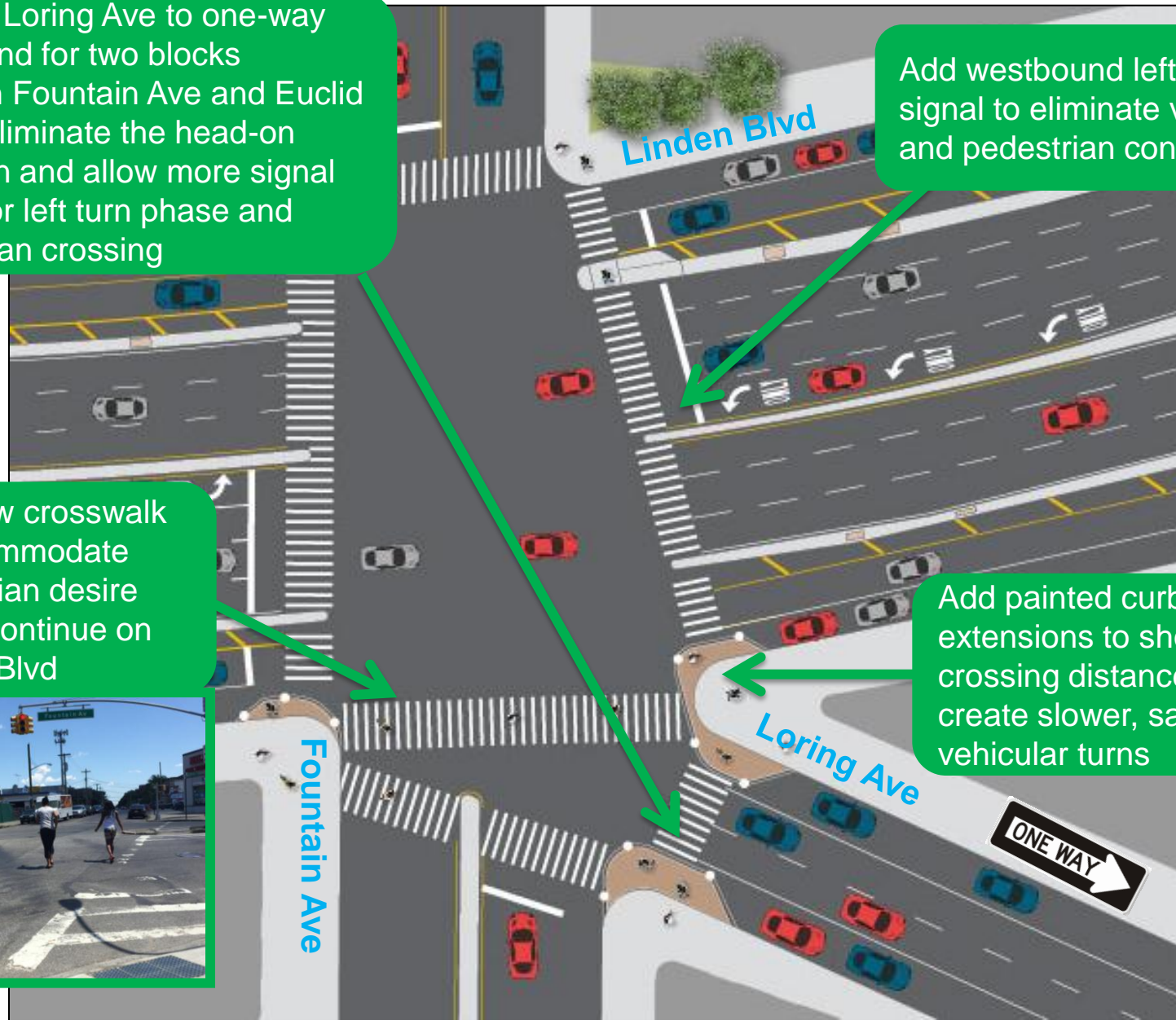
# Proposal Details: Fountain Ave

Convert Loring Ave to one-way eastbound for two blocks between Fountain Ave and Euclid Ave to eliminate the head-on condition and allow more signal timing for left turn phase and pedestrian crossing

Add westbound left turn only signal to eliminate vehicular and pedestrian conflict

Add new crosswalk to accommodate pedestrian desire line to continue on Linden Blvd

Add painted curb extensions to shorten crossing distances and create slower, safer vehicular turns





# Proposal Details: Loring Ave Alternate Routes

**Convert Loring Ave (Fountain Ave to Euclid Ave) from two-way to one-way eastbound**

- Mitigation measure for the EIS for the Gateway Estates II



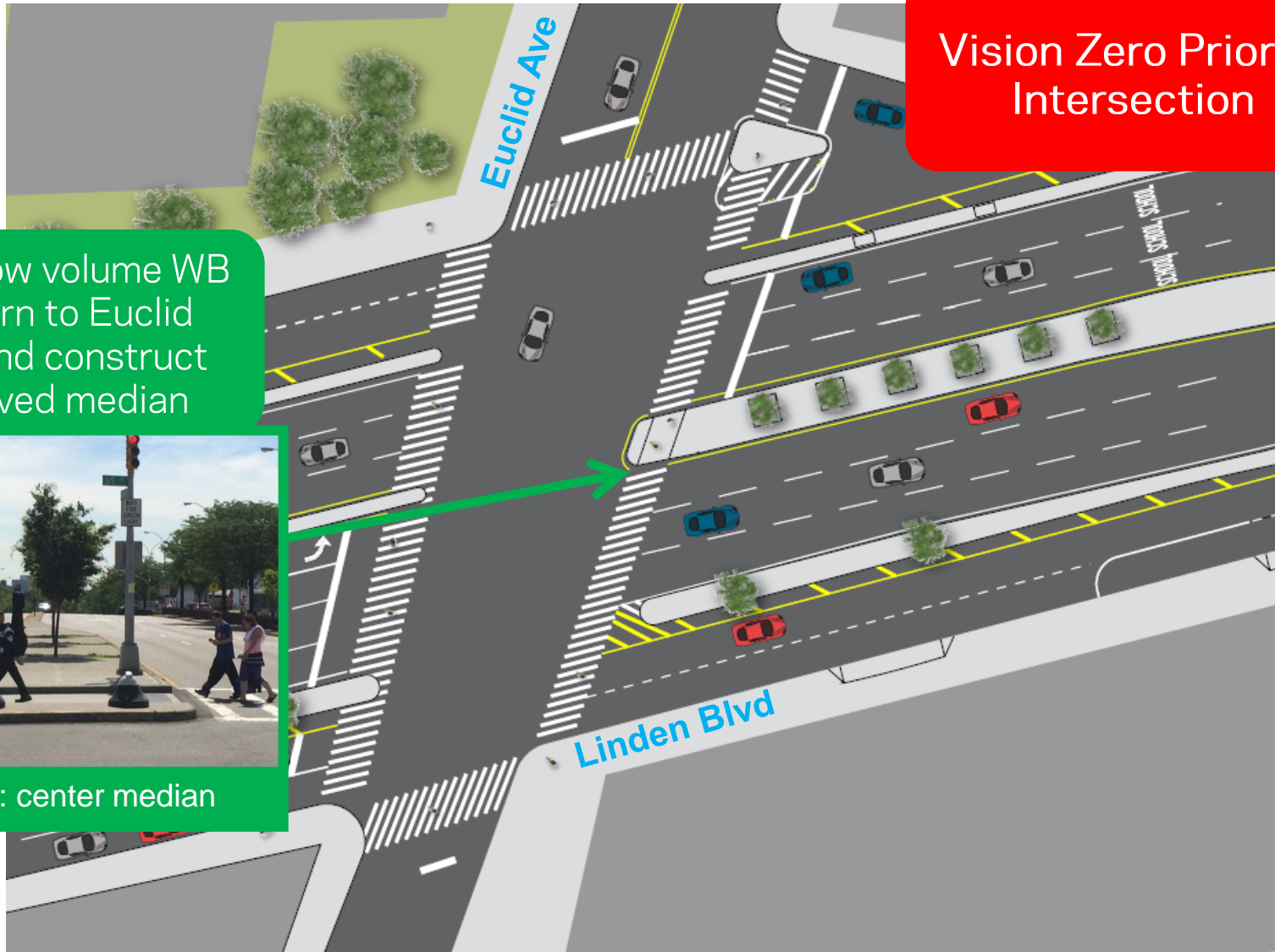
# Proposal Details: Euclid Ave

Vision Zero Priority  
Intersection

Ban low volume WB  
left turn to Euclid  
Ave and construct  
improved median



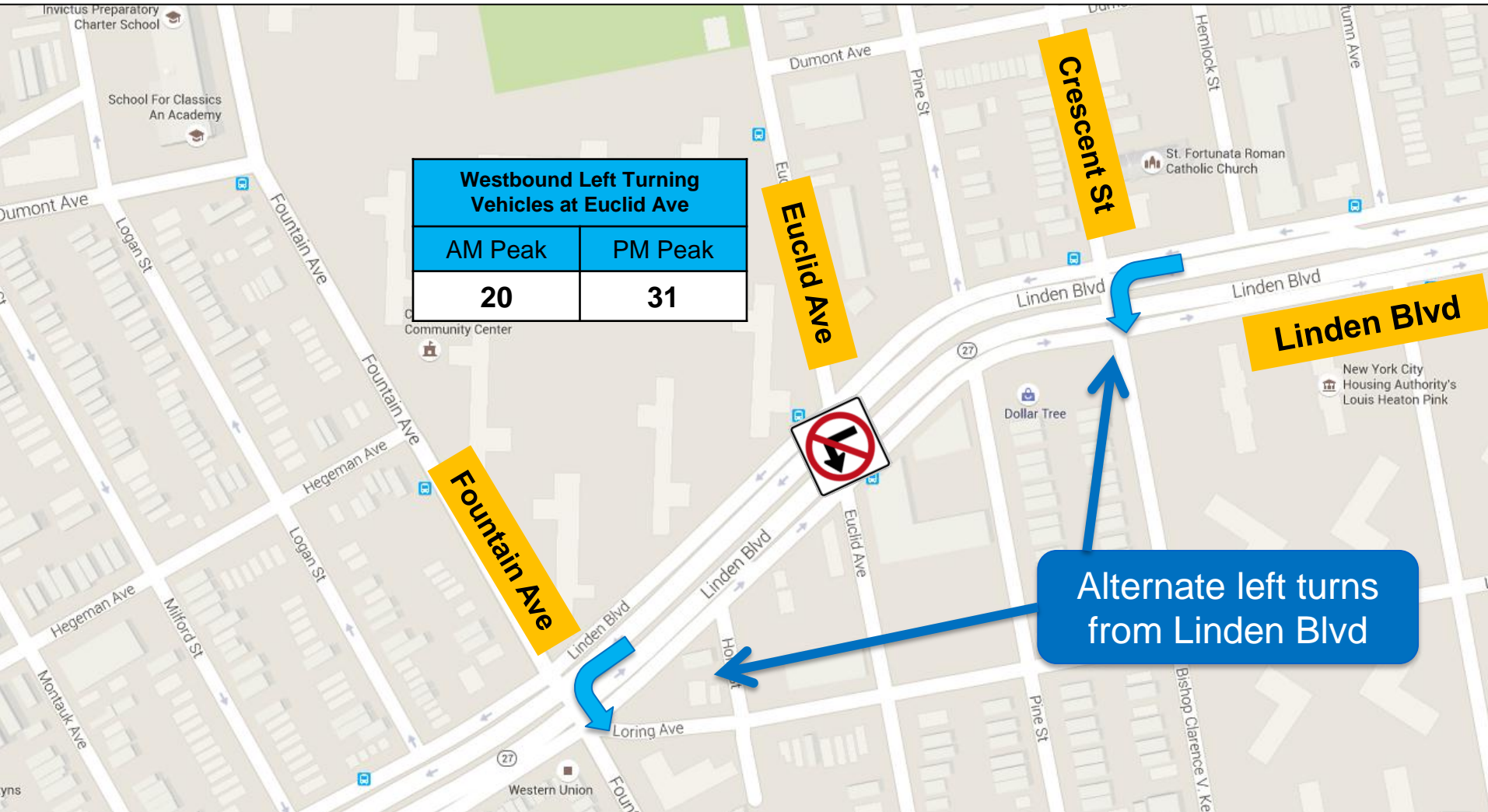
Example: center median



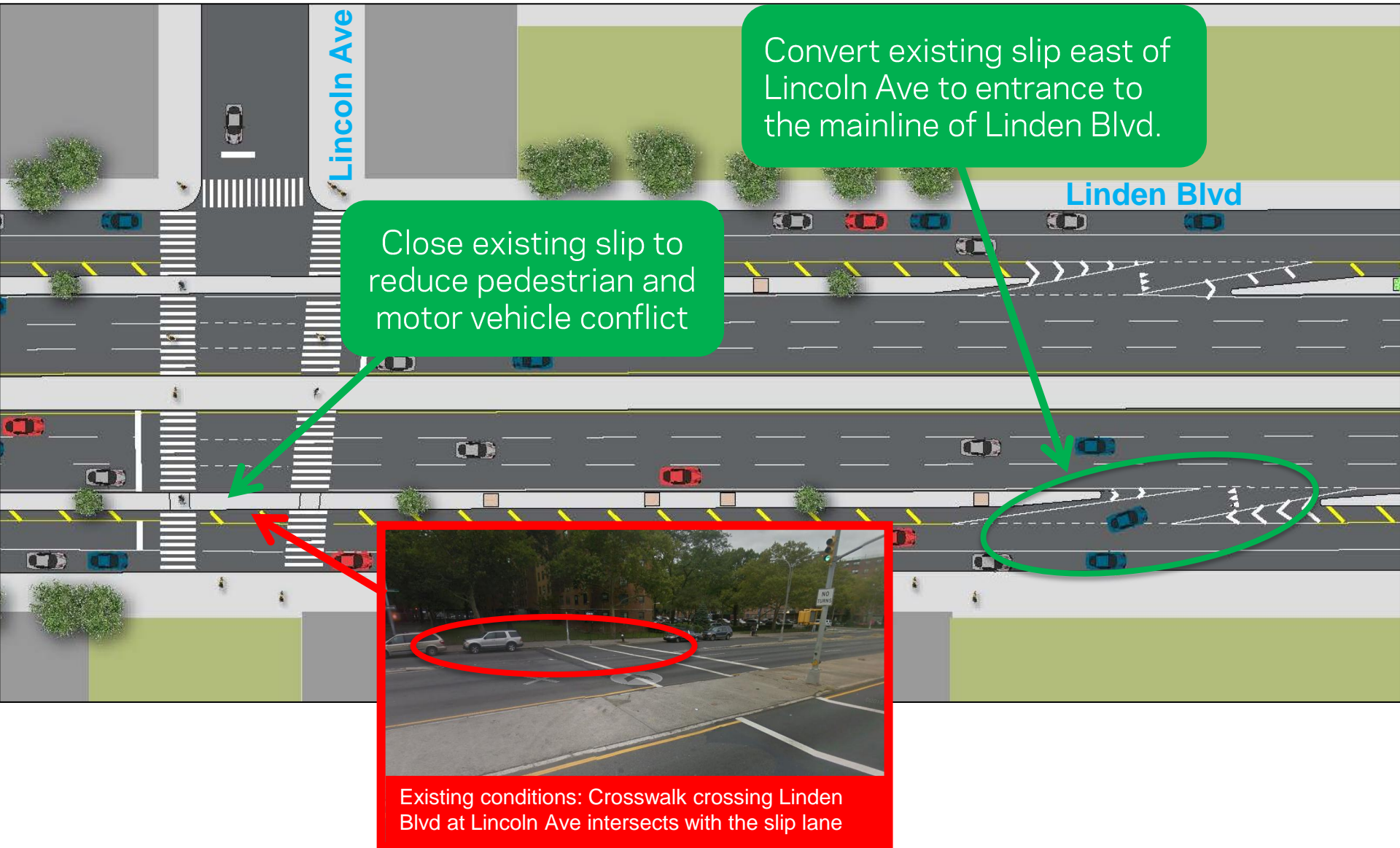


# Alternate Routes: Euclid Ave Turn Restriction

- Low volume left turns at Euclid Ave allow the opportunity to ban the westbound turn and create a better pedestrian refuge crossing Linden Blvd at a Priority Intersection



# Proposal Details: Lincoln Ave / Slip





# Proposal Details: Other Intersections

## Williams Ave

- Fill in turn bay on east side of intersection (existing turn ban), and construct improved center media
- Extend SW median tip

## Atkins Ave:

- Fill in turn bay on west side of intersection (existing turn ban), and construct improved center median
- Extend all 4 median tips

## Van Siclen Ave:

- Construct 3 new median tips (NW, NE, SE)

## Eldert Ln:

- Extend all 4 median tips

## Schenck Ave:

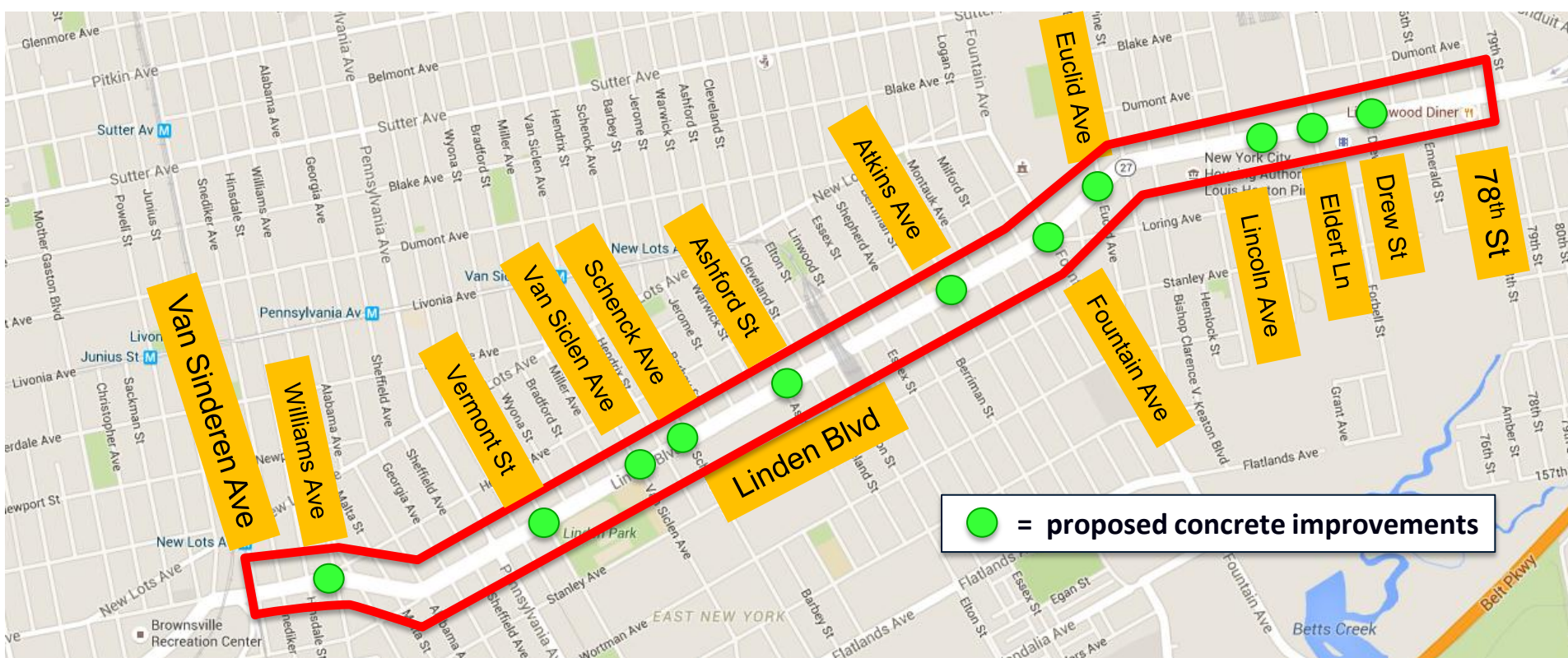
- Extend all 4 median tips

## Drew St:

- Construct 3 new median tips (SW, NE, NW)

# Proposal Details: Summary and Benefits

- Improvements to 2.4 miles of a high crash corridor and two Vision Zero Priority Intersections
- Concrete improvements at 11 locations will provide shorter, safer pedestrian crossings
- Lowering corridor speed limit to 30 MPH and improving markings and signage discourages speeding and better defines roadway space
- Left turn phases at 9 intersections will allow for safer left turns
- Curb extensions allow for simpler, safer right turns







Questions?



**Thank  
You**

Contact: Brooklyn Borough Commissioner's Office at (718) 222-7259