

E. Tremont Ave at Silver St

2014



Project Area



Background



- 25,000 daily bus riders on Bx40 and Bx42 buses

- 70' wide, two lanes in each direction

- Association of Merchants & Business Professionals of Westchester Sq. Inc.

- Community request for LT signal and safety improvements at Silver Street

Existing Issues

- Very wide, undefined lanes and parking lanes
- Long diagonal crosswalks
- Lack of crosswalks at certain locations
- High speeds: 85% of vehicles above the limit
- Long left turn queues at Silver St

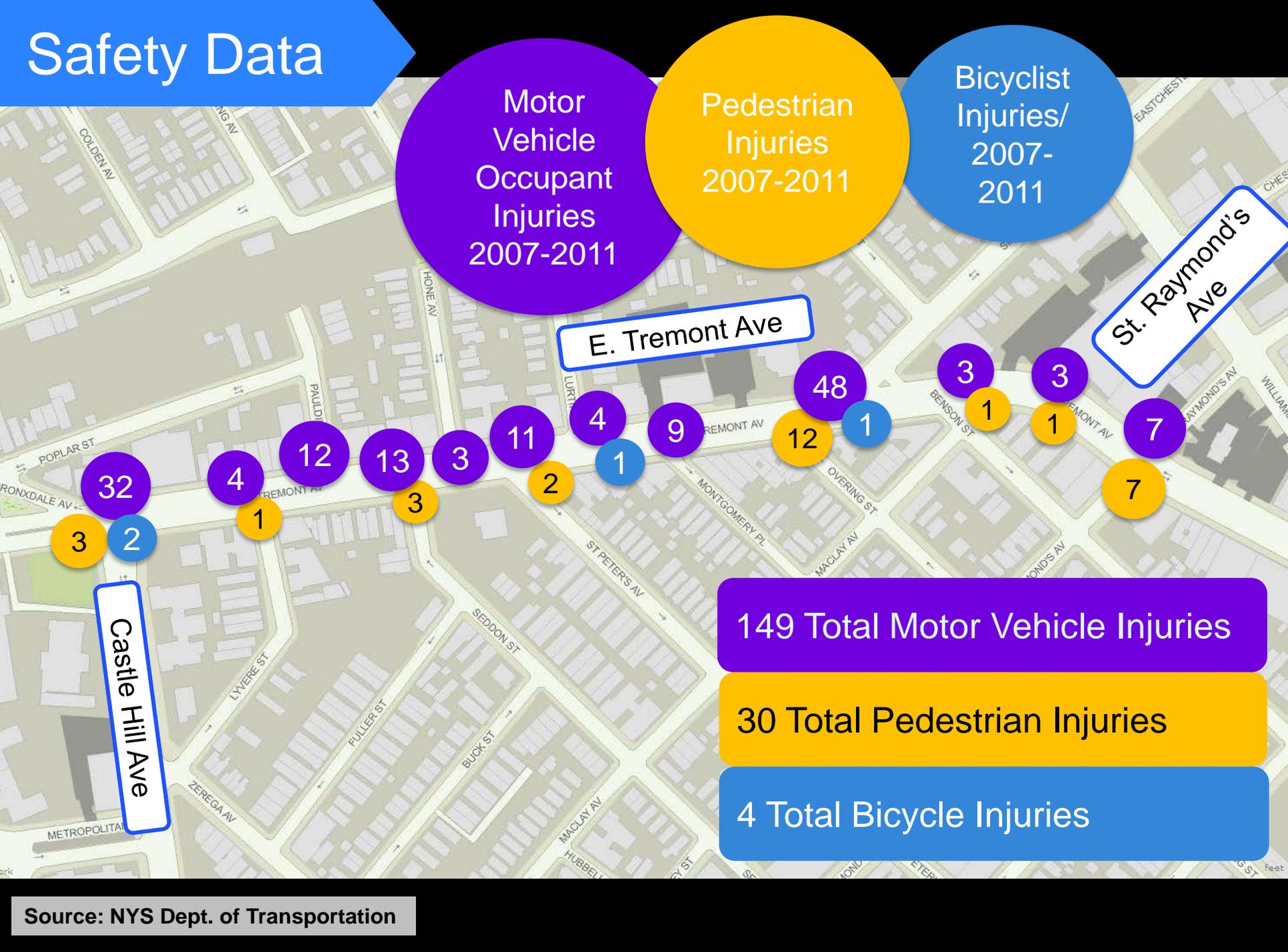


Safety Data

Motor Vehicle Occupant Injuries 2007-2011

Pedestrian Injuries 2007-2011

Bicyclist Injuries/ 2007-2011



149 Total Motor Vehicle Injuries

30 Total Pedestrian Injuries

4 Total Bicycle Injuries

Proposed

Proposal Presentation Sections



1

Bronxdale Ave to
Montgomery Pl

2

Overing St to
Maclay Ave

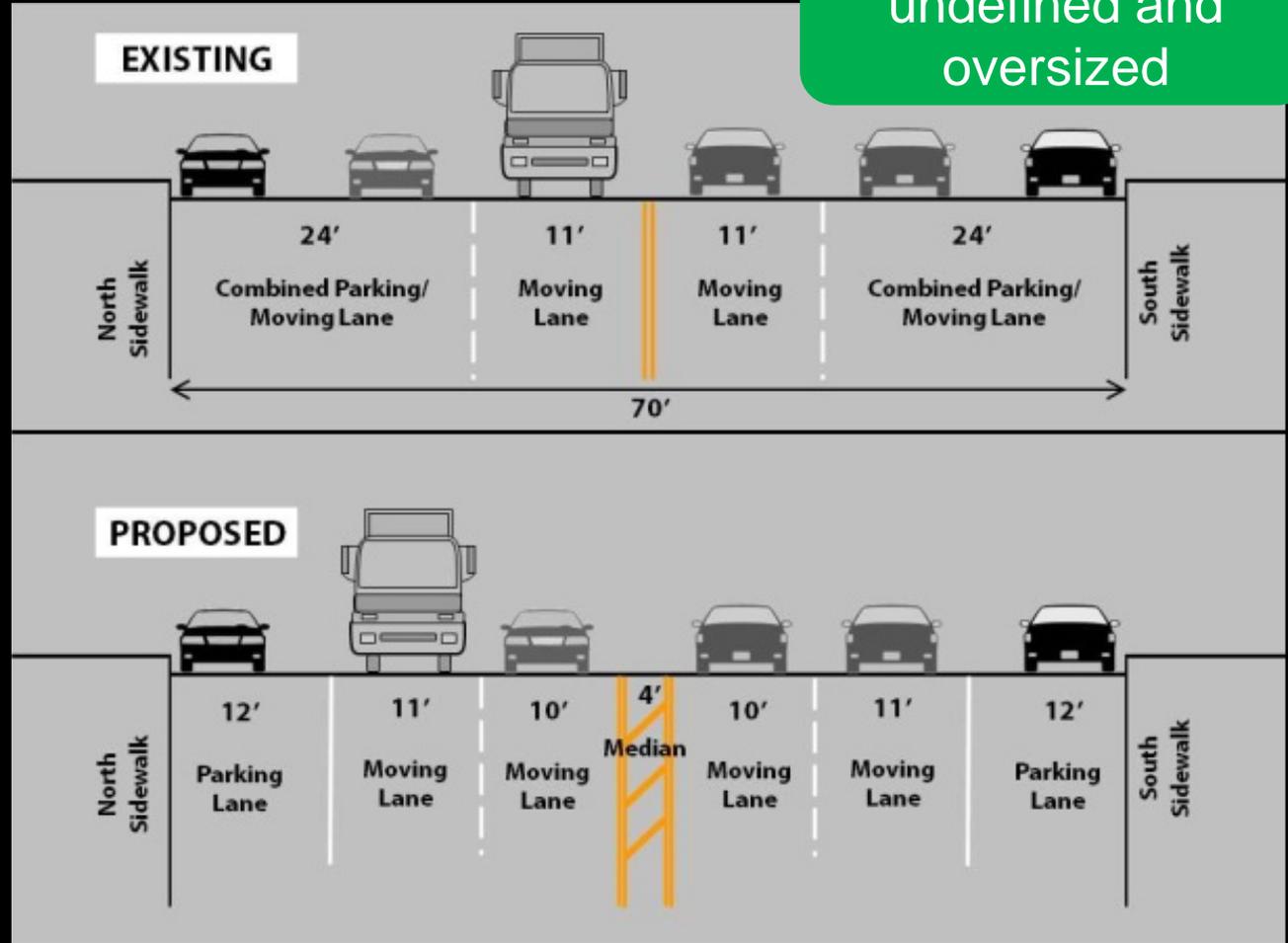
3

St. Raymond's
Ave

Proposed

Current lanes are undefined and oversized

Bronxdale Ave to Montgomery Pl



Proposed

Bronxdale Ave to
Montgomery Pl

Wide parking
lanes allows
flexibility

Narrowing moving
lanes calms traffic

Bronxdale
Ave

E. Tremont Ave

New turn lane
will improve
traffic processing

Designated
moving/parking lanes
clarifies movements



Existing

Overing St to
Maclay Ave



E. Tremont Ave

Silver St

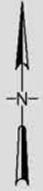
Overing St

Maclay Ave



Proposed

Overing St to
Maclay Ave



E. Tremont Ave

Silver St

Overing St

Maclay Ave



2

Proposed

Sidewalk extensions normalizes intersection

Create two intersections at Overing/Silver Streets

Overing St to Maclay Ave

E. Tremont Ave

Silver St

New pedestrian safety islands

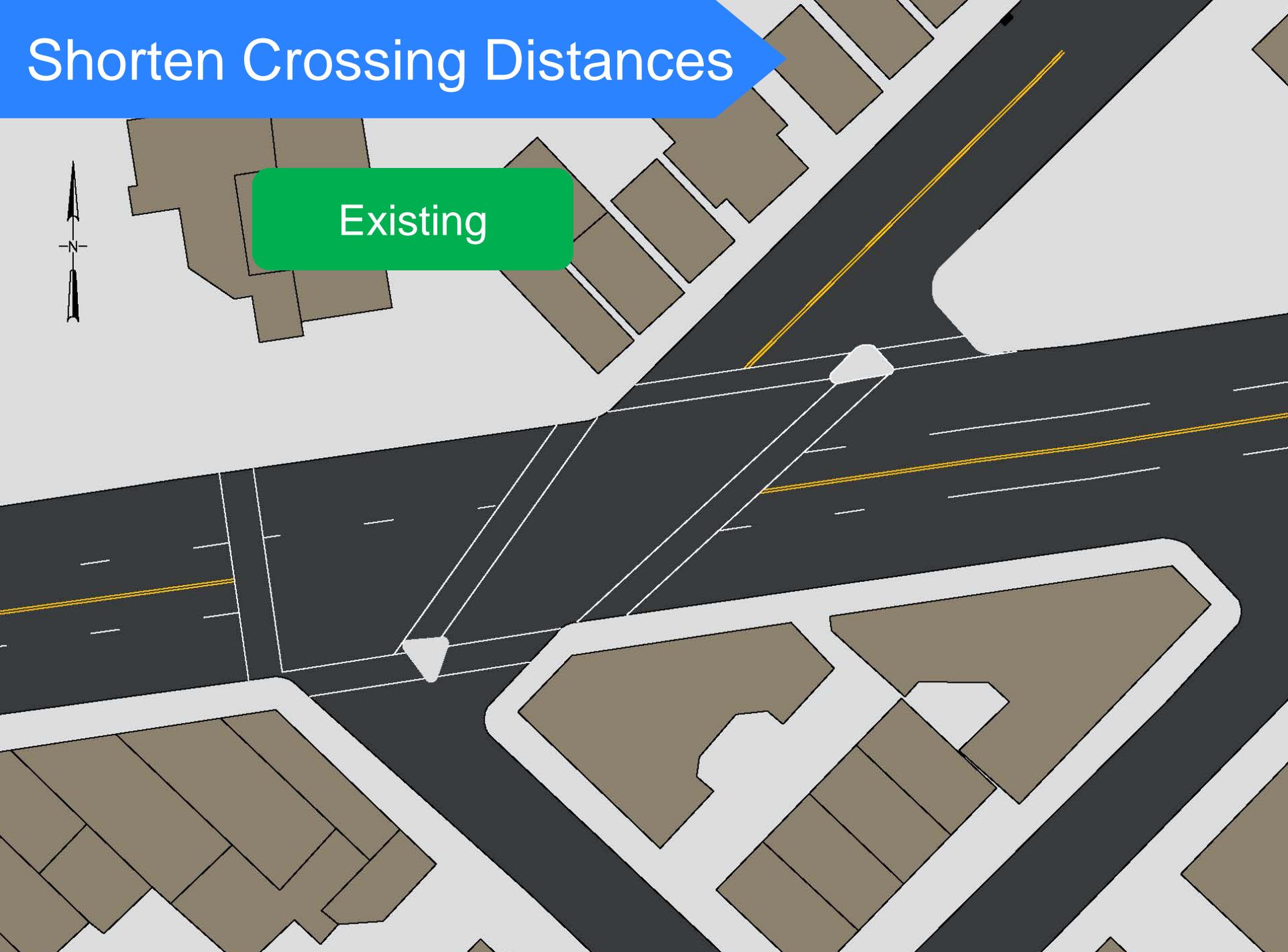
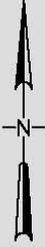
Overing St

Maclay Ave



Shorten Crossing Distances

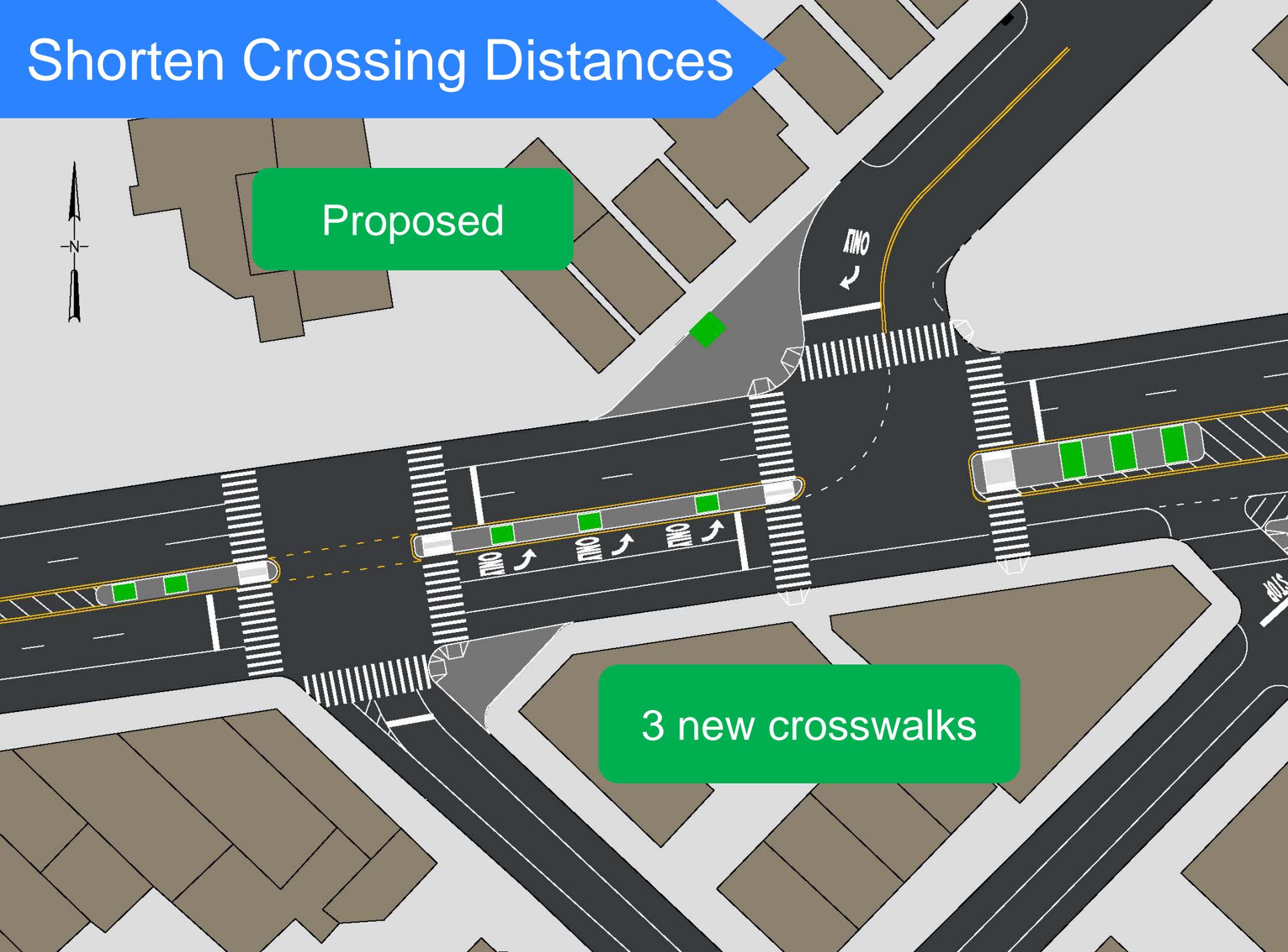
Existing



Shorten Crossing Distances

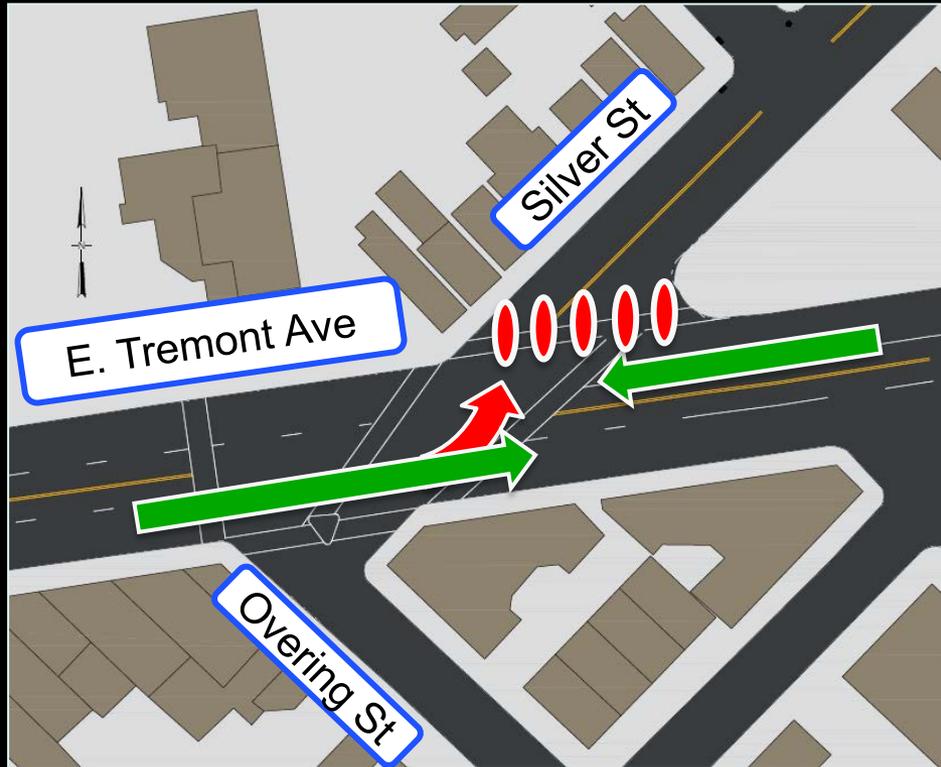
Proposed

3 new crosswalks



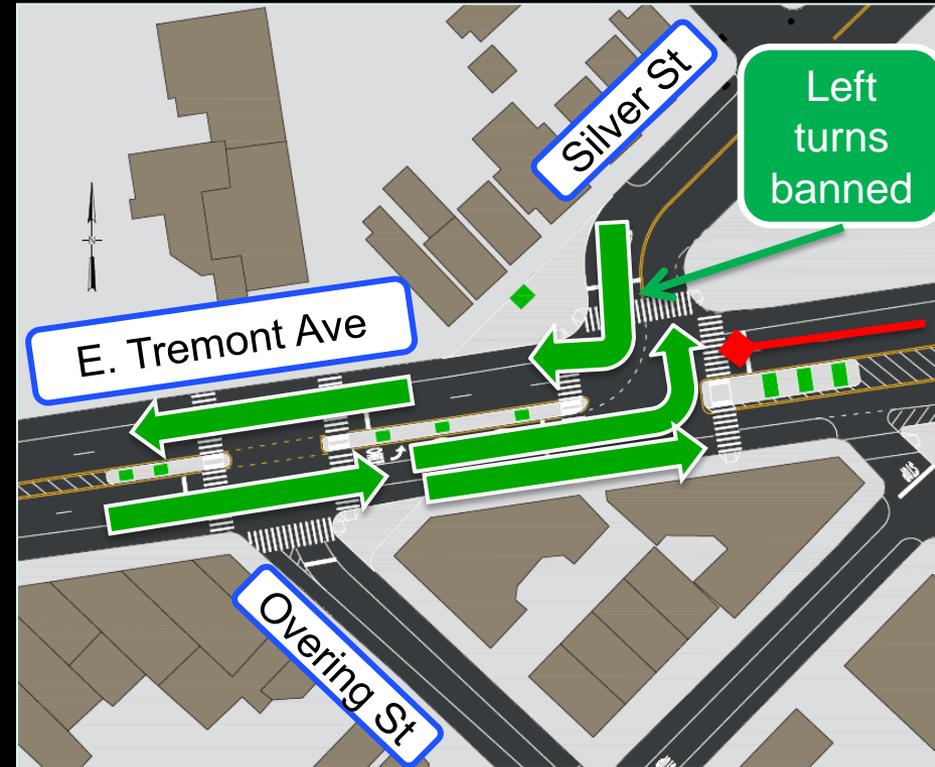
Signal Phasing

Existing Turning Conflict



Left turning vehicles wait for gap in cars and pedestrians

Proposed Turning Phase

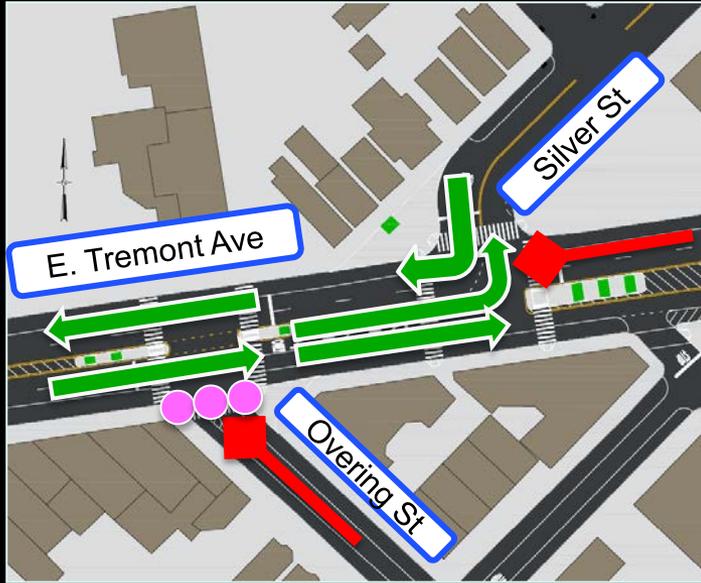


Left turning phase will remove conflicts and move vehicles through intersection with less delay

Proposed Signal Phasing

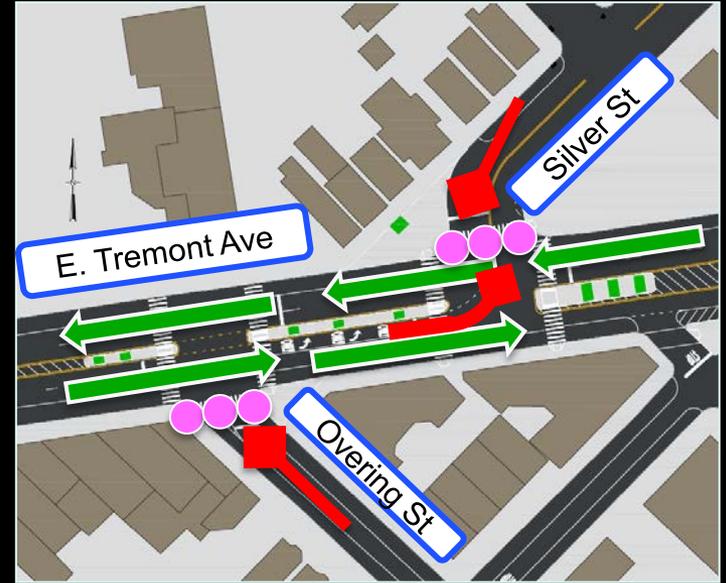
1

47 Secs



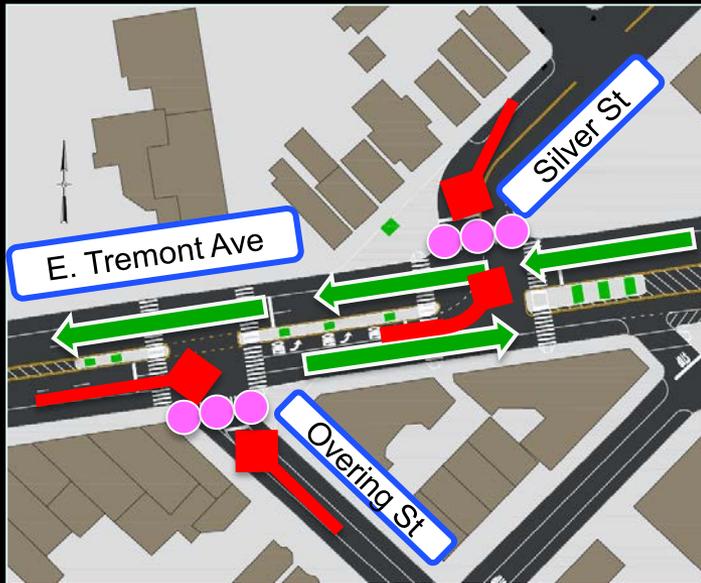
2

37 Secs



3

10 Secs

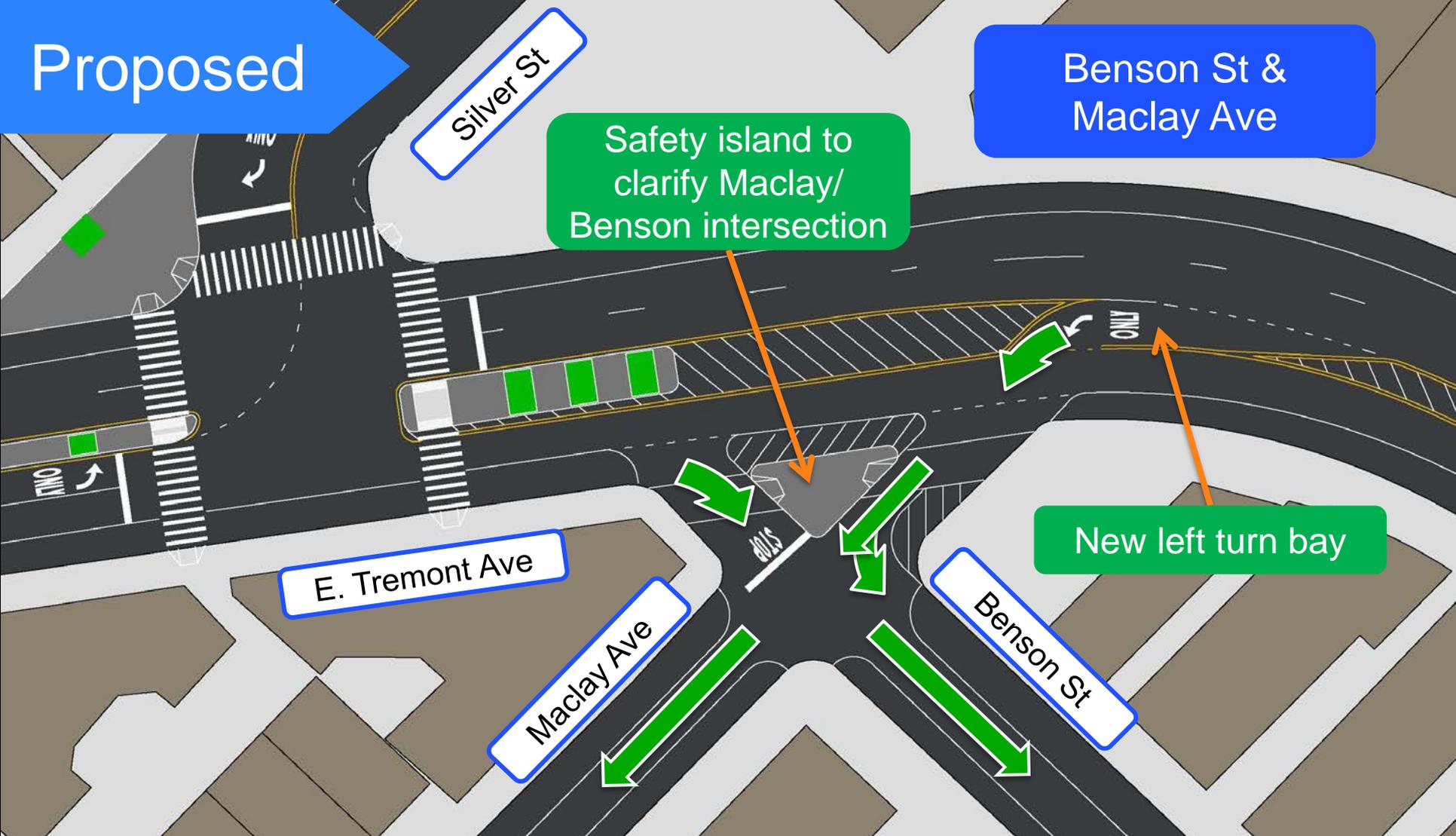


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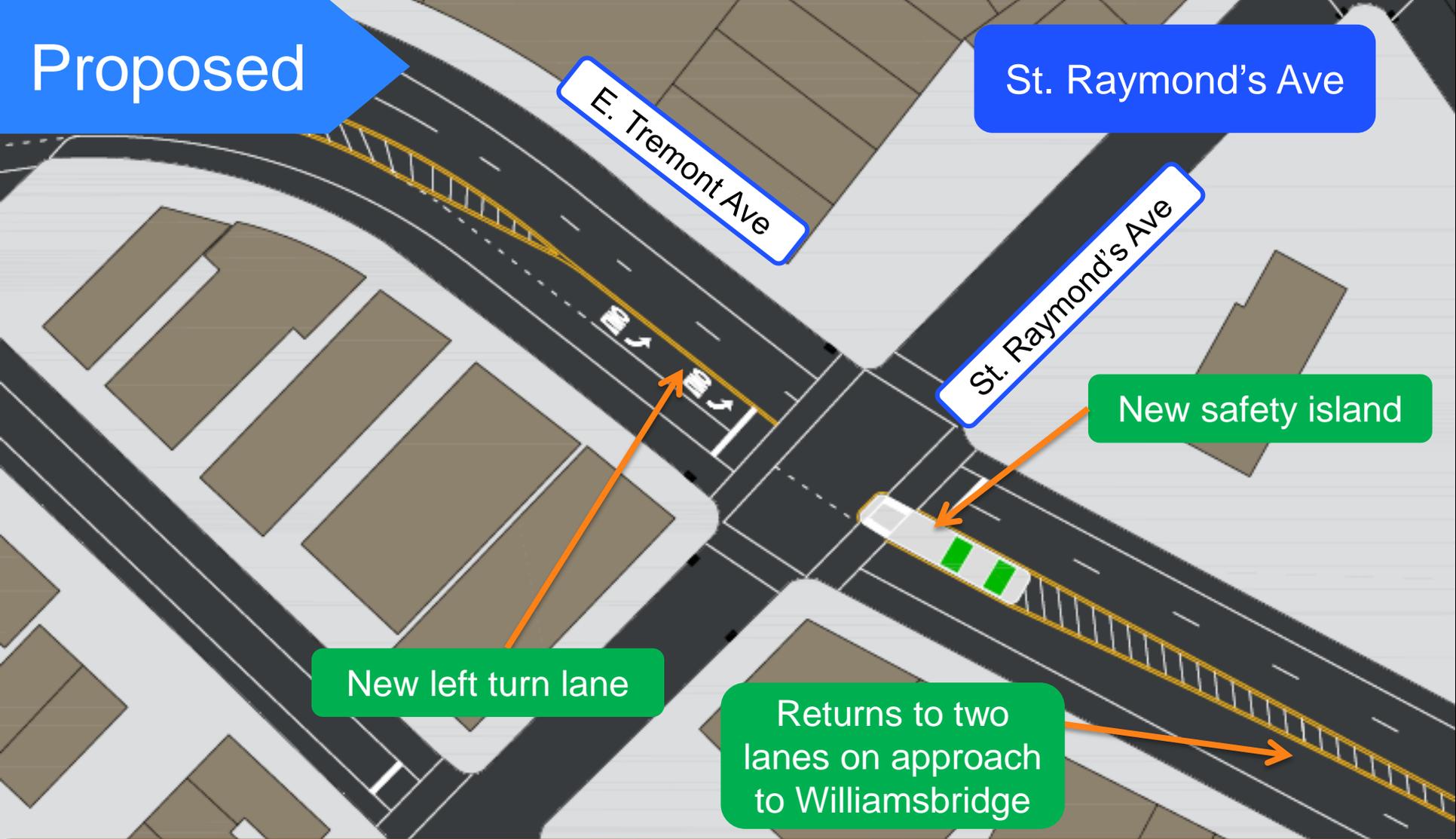
26 Secs



Proposed



Proposed



Benefits

Calmed traffic

Improved traffic flow and circulation

Increased pedestrian safety and comfort

Enhanced walking environment

New landscaping and neighborhood amenities added

Clarified pedestrian crossings and vehicle travel lanes



Summary



- Construct five green pedestrian safety islands at Overing St, Silver St, and, St Raymonds Ave
- Build neckdowns on E. Tremont at Silver St, Overing St, and Maclay Ave
- Build two new pedestrian ramps
- Install flush center median with left turn bay at Bronxdale
- Convert one EB through lane to left turn lane at Silver
- Mark curb lane to create standard width moving lanes
- Install EB left turn signal and provide simultaneous SB right turn at Silver St while banning SB left turn
- Install two new crosswalks

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Thank
You

