

Greenpoint Avenue Traffic Flow Improvements

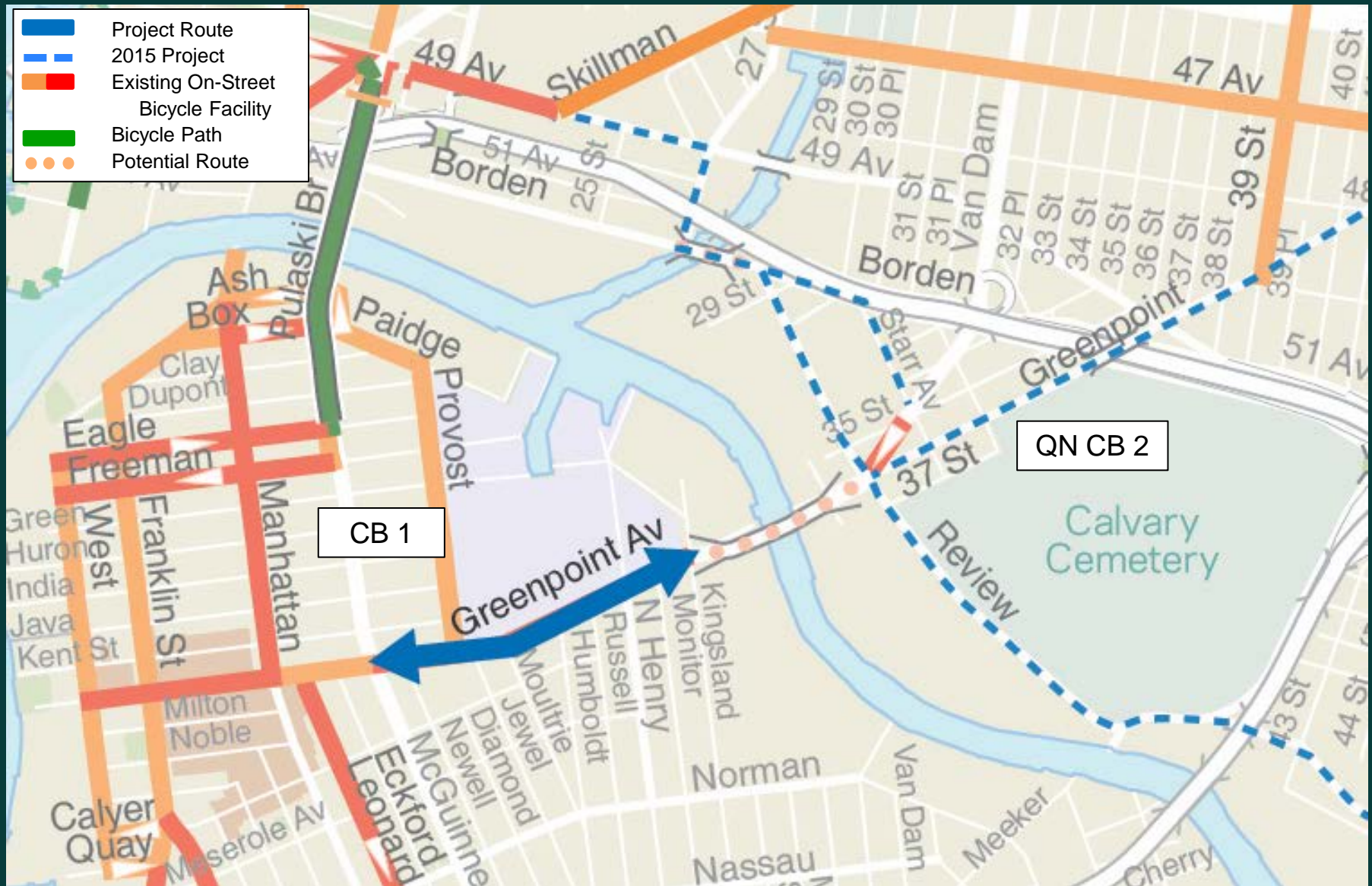
2015



New York City Department of Transportation
Presented to Brooklyn CB 1 on March 17, 2015



Project Map



Background

- March 2011 DOT proposed traffic flow changes on Greenpoint Ave as part of bridge component rehabilitation, which included
 - buffered curbside bike lanes
 - implementation was delayed due to construction and utility work
- Existing Greenpoint Ave markings are faded
- DOT has received numerous complaints over the years about the faded markings
- Community Board requested evaluation to improve traffic flow
- Congestion between McGuinness Blvd to Kingsland Ave partially due to left-turning vehicles
- Left turning traffic forces westbound traffic into bike lane

Community Outreach

March 2011: CB1 Transportation Committee Meeting

- Reviewed community comments and recommended changes to existing Greenpoint Avenue
- Proposed changes on bridge – on hold until Greenpoint Avenue changes made

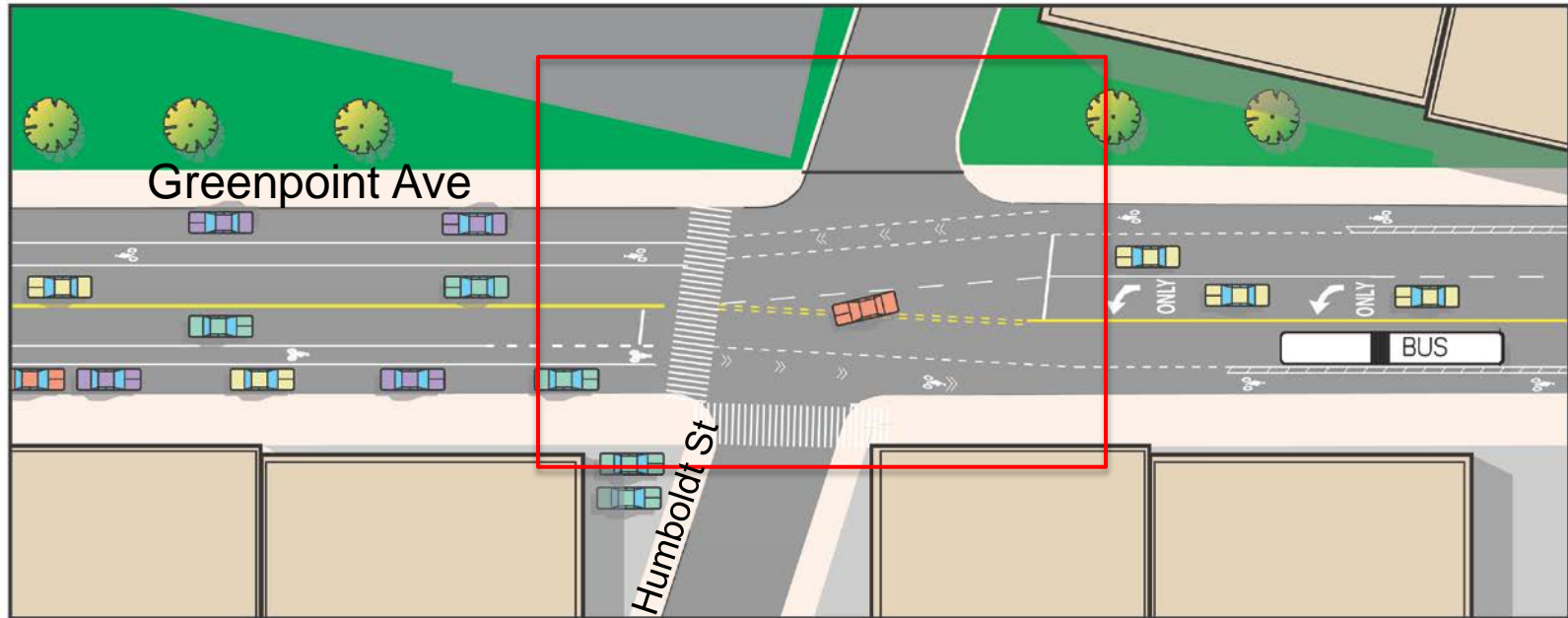


May 2011: Business & community outreach workshop

- Met with businesses/community to obtain additional comments and understanding of issues with the existing design on Greenpoint Avenue
- Conducted walk-through of the corridor to discuss issues



Original Draft Design



DRAFT DESIGN

Community Outreach

January 2015: Business outreach

- Met with businesses to discuss proposed changes on Greenpoint Ave and hear concerns

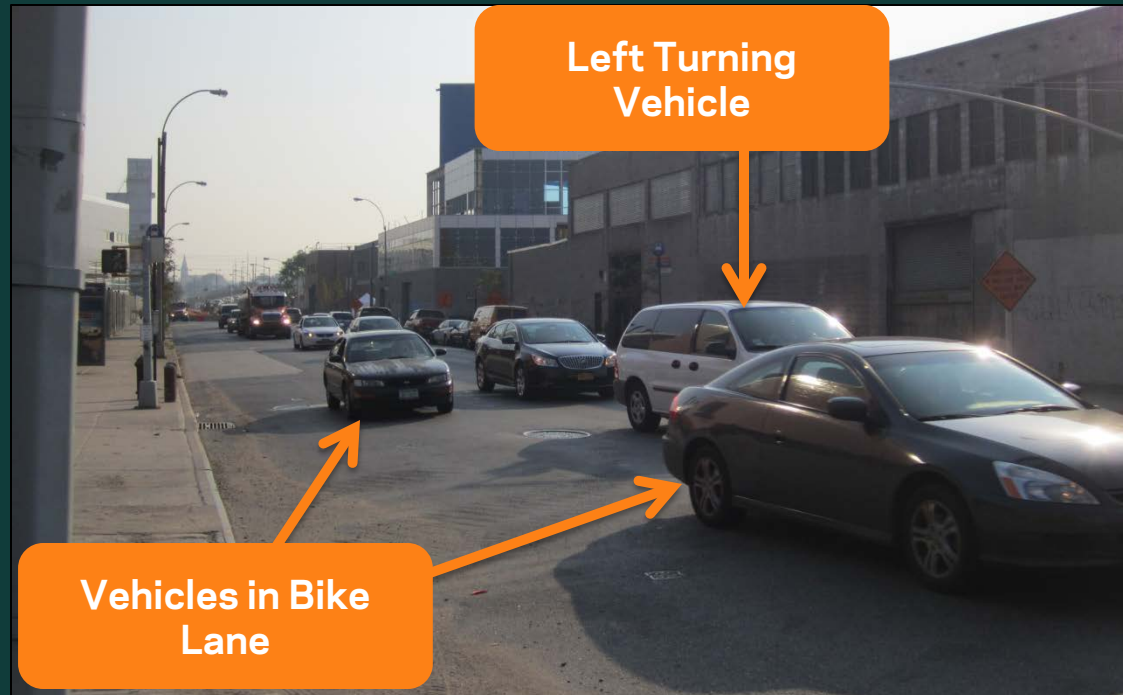
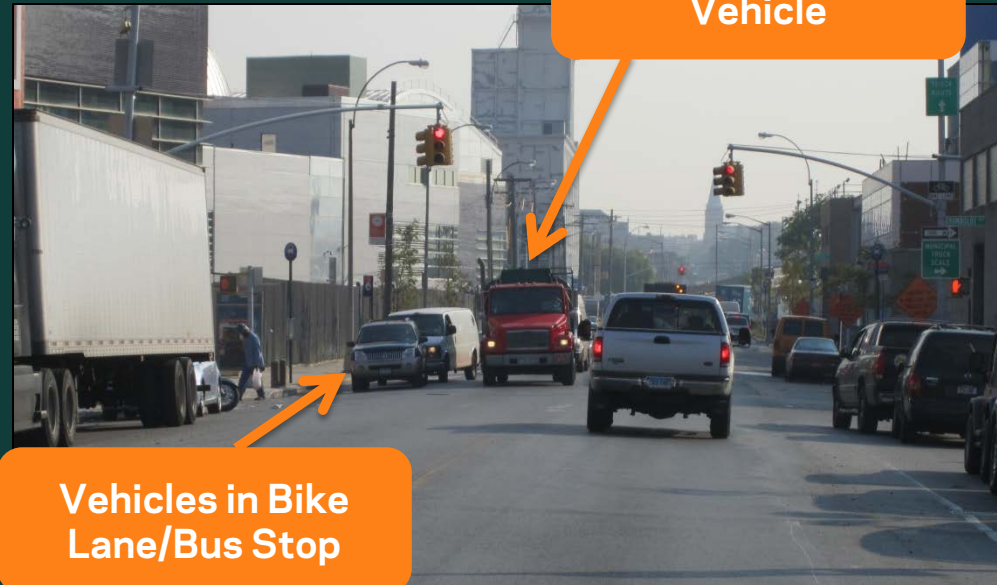
March 2015: Business outreach

- Met with businesses to review updated design on Greenpoint Ave

Existing Conditions

Greenpoint Avenue

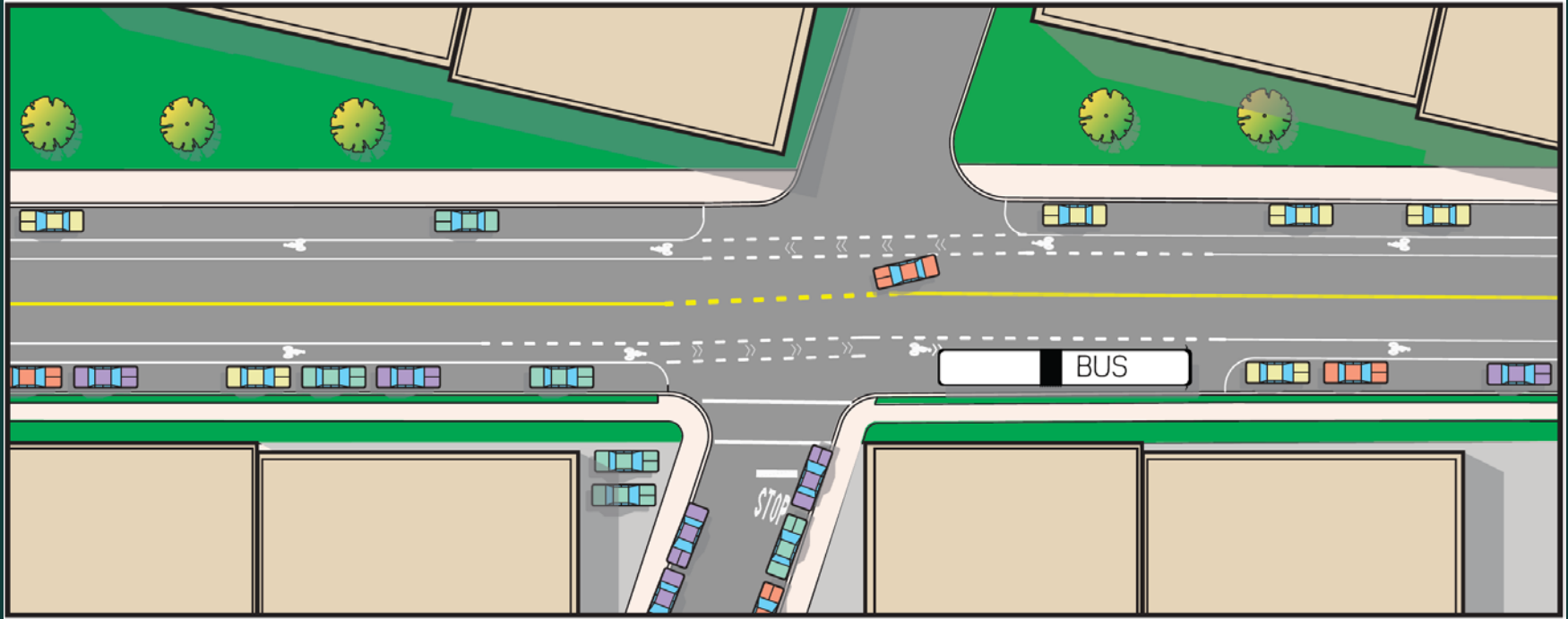
- Southbound left turns block traffic
 - Monitor St
 - N. Henry St
 - Humboldt St



- Sudden merge from two to one travel lane off of bridge
- Underutilized parking between Humboldt Street and Kingsland Ave
- High volume of vehicles traveling in bike lane

Existing Conditions – Typical Street Design

Greenpoint Avenue McGuinness Blvd to Kingsland Ave

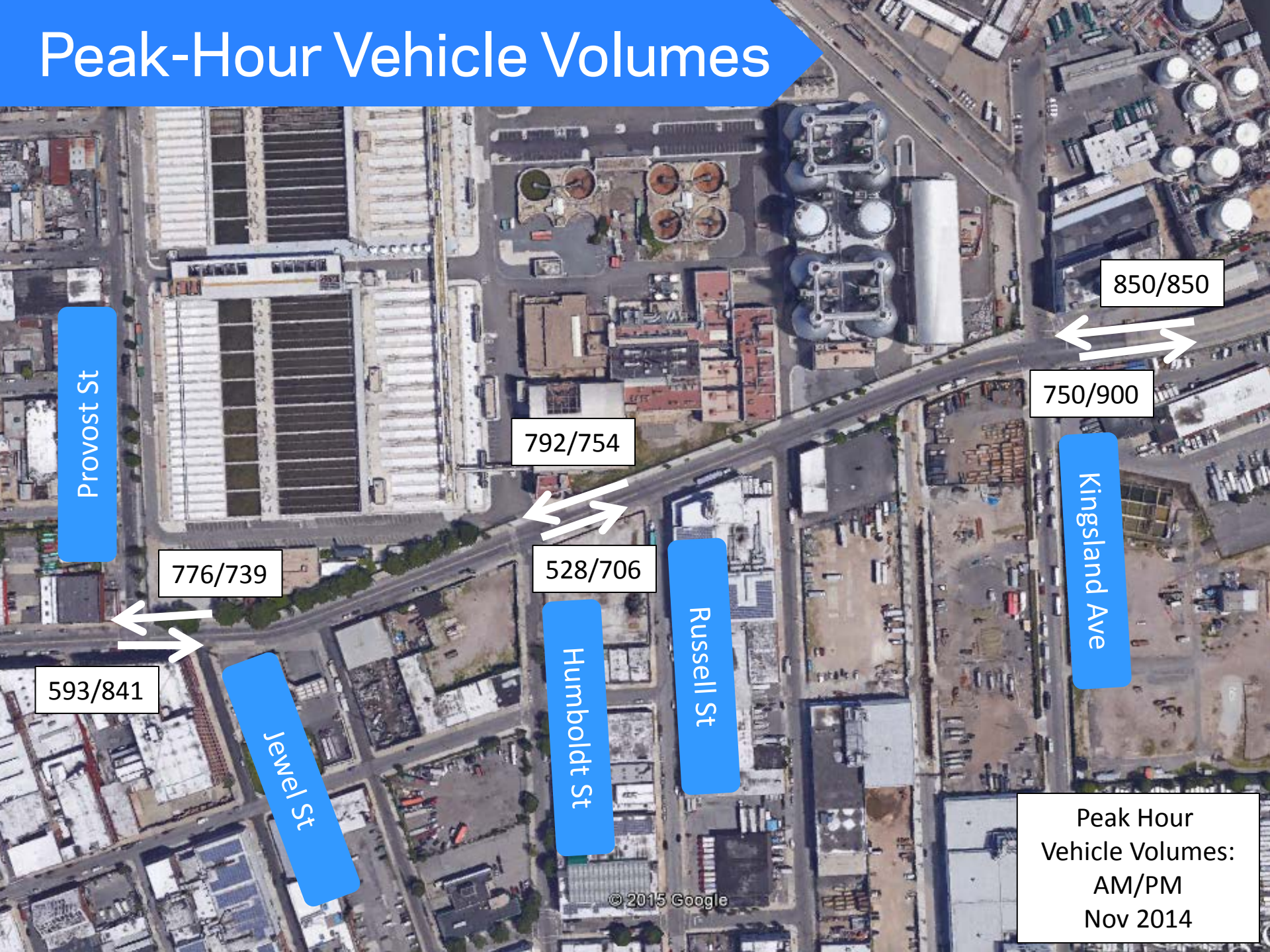


- 50ft roadway
- One travel lane in each direction (11ft)
- Bike lanes adjacent to parking (5ft)
- Underutilized curbside parking lanes

*Mid-Day Peak Hour Westbound to Southbound Turn Movements		
Intersection	Turn Volume	% of WB Traffic
Monitor Street	409	32%
N Henry Street	88	18%
Humboldt Street	166	23%

*Weekday mid-day peak hour taken 4/4/11 from 12:30pm to 1:30pm

Peak-Hour Vehicle Volumes



Existing Conditions – Parking Study

Greenpoint Ave looking east at N. Henry St

Parking Utilization Study: 2010 - 2015 Kingsland Ave to Humboldt St

Side of Street	Average Vehicles Parking
North	0
South	12

Underutilized Parking

5/21/2014

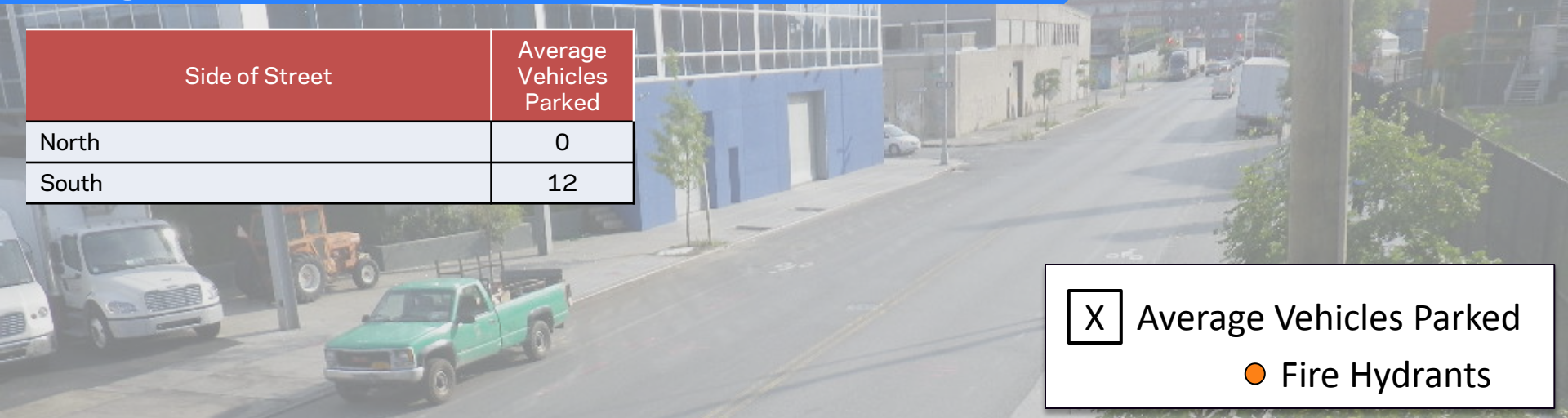
*Vehicles parked is the average of five weekdays (11/4/2010, 5/21/2014, 11/12/2014, 12/3/2014 & 2/26/2015) between 7:45am - 10:30am

One vehicle in five site visits was observed parked on the north side resulting in 0.2 but was rounded down to zero

Parking Study: 2010 - 2015

Kingsland Ave to Humboldt St

Side of Street	Average Vehicles Parked
North	0
South	12



Average Vehicles Parked



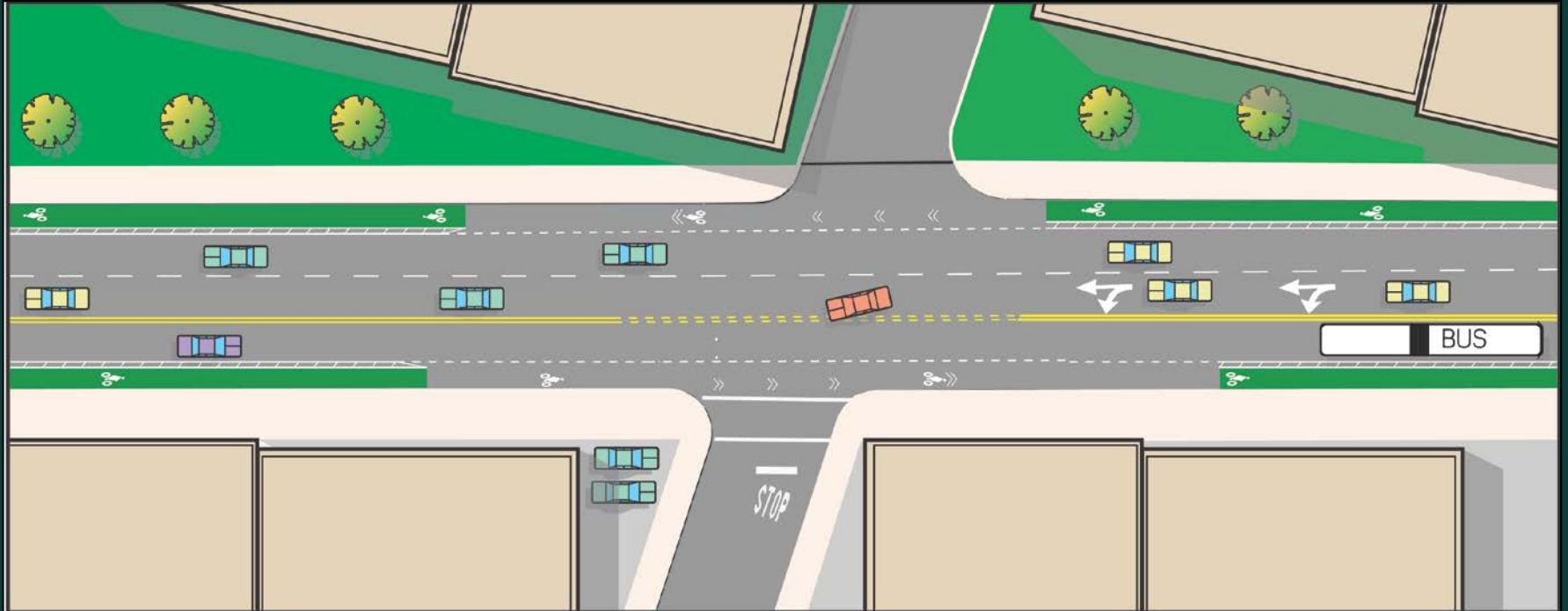
Fire Hydrants



*Vehicles parked is the average of five weekdays (11/4/2010, 5/21/2014, 11/12/2014, 12/3/2014 & 2/26/2015) between 7:45am - 10:30am

Proposed Design

Greenpoint Avenue Kingsland Ave to Humboldt St

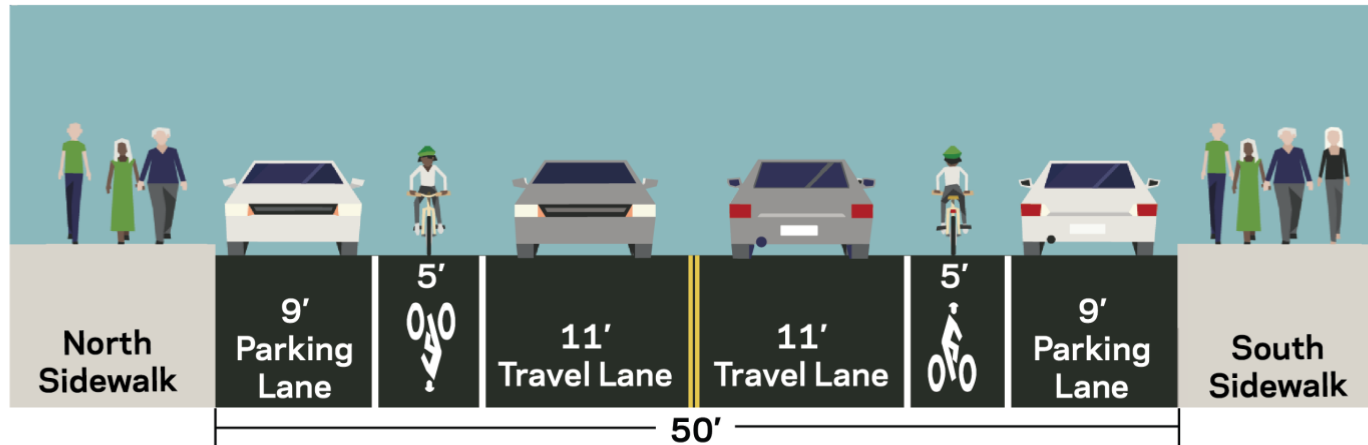


- Two westbound travel lanes (11ft)
- One eastbound travel lane (11ft)
- Curbside buffered bike lanes (6ft) bike lane + (2.5ft) buffer

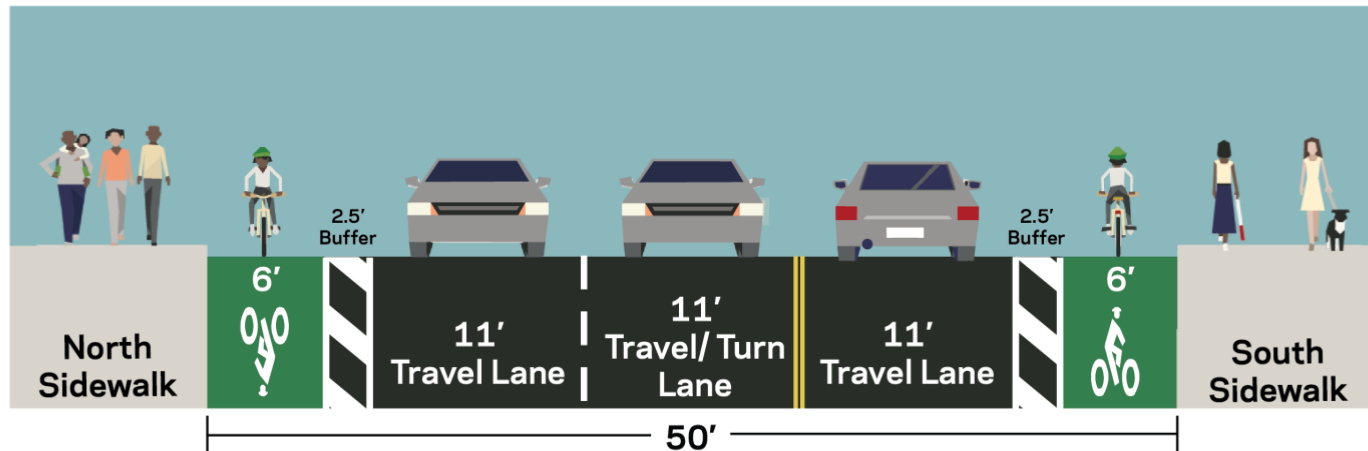
Proposed Design

Greenpoint Avenue Kingsland Ave to Humboldt St

Existing



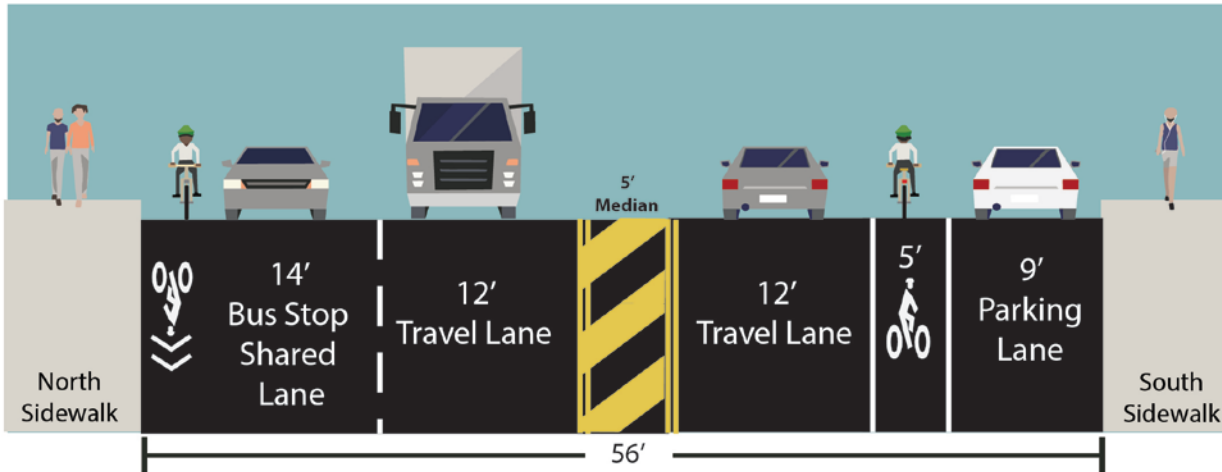
Proposed



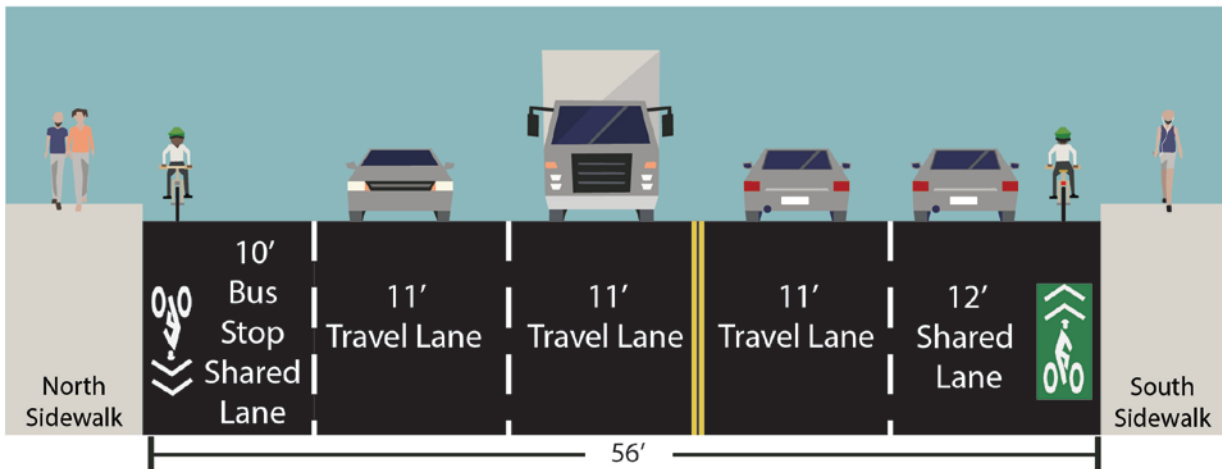
Proposed Design

Greenpoint Avenue At Kingsland Ave and Greenpoint Ave Bridge Approach

Existing



Proposed



Existing Conditions – Parking Study

Greenpoint Ave looking east at Russell St

Underutilized Parking

Parking Utilization Study: 2010 - 2015 Humboldt St to Provost St

Side of Street	Average Vehicles Parked
North	19
South	10

11/12/2014

15

*Vehicles parked is the average of five weekdays (11/4/2010, 5/21/2014, 11/12/2014, 12/3/2014 & 2/26/2015) between 7:45am – 10:30am

Parking Study: 2010 - 2015

Provost St to Humboldt St

Side of Street	Average Vehicles Parked
North	19
South	10

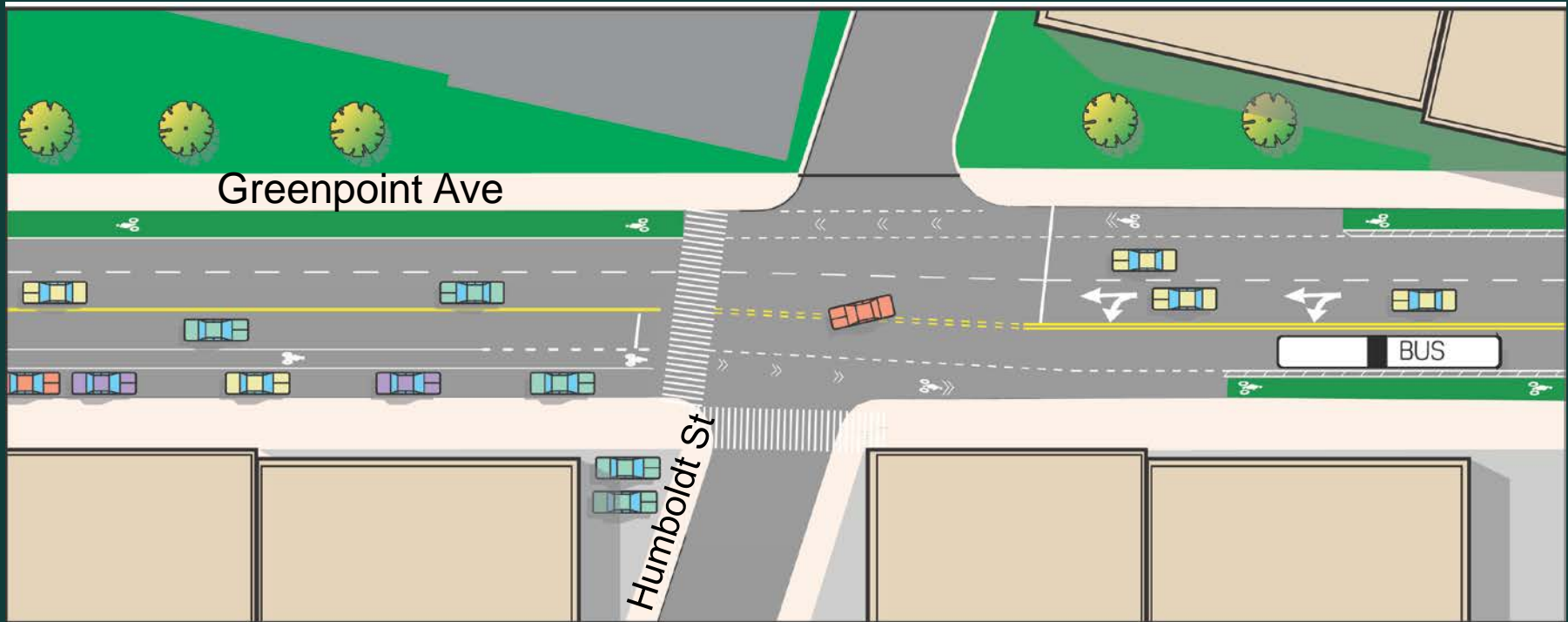


7 spaces available on the south side between Jewel St and Humboldt St

*Vehicles parked is the average of five weekdays (11/4/2010, 5/21/2014, 11/12/2014, 12/3/2014 & 2/26/2015) between 7:45am - 10:30am

Proposed Design

Greenpoint Avenue: Humboldt St to Provost St

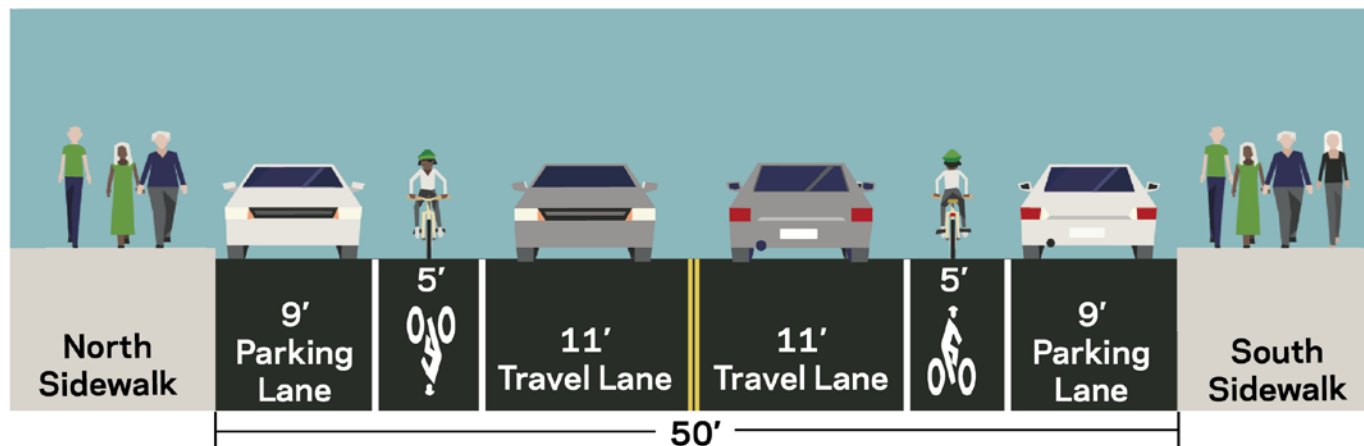


- Two westbound travel lanes (10.5ft)
- Westbound curbside bike lane (5ft)
- Eastbound bike lane (5ft)
- South side parking lane (8ft)

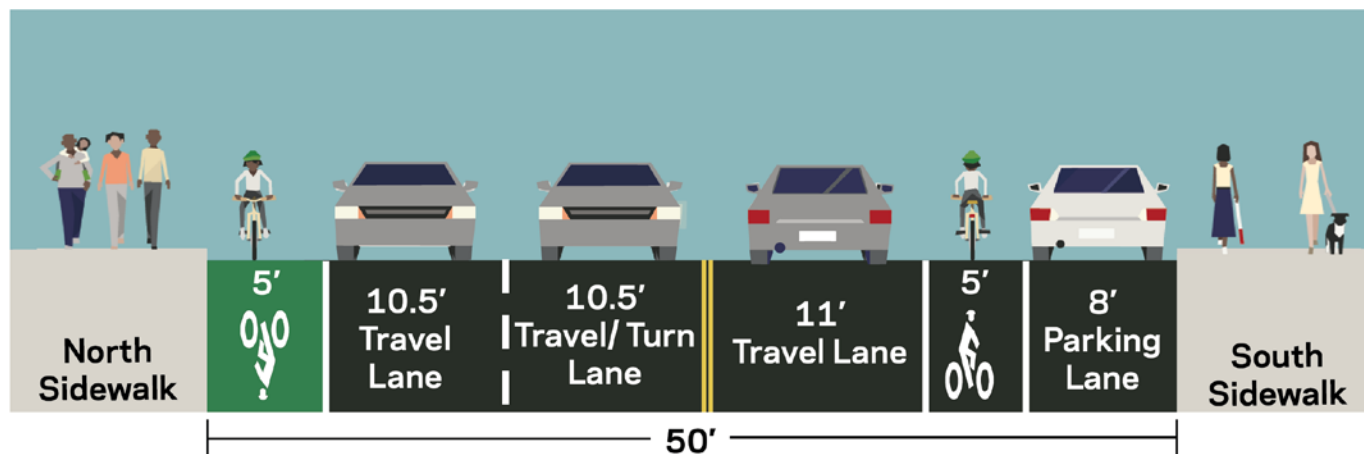
Proposed Design

Greenpoint Avenue Humboldt St to Provost St

Existing



Proposed



N Henry St One-Way Conversion

N Henry St

03/27/2012

Underutilized
Parking

11/12/2014

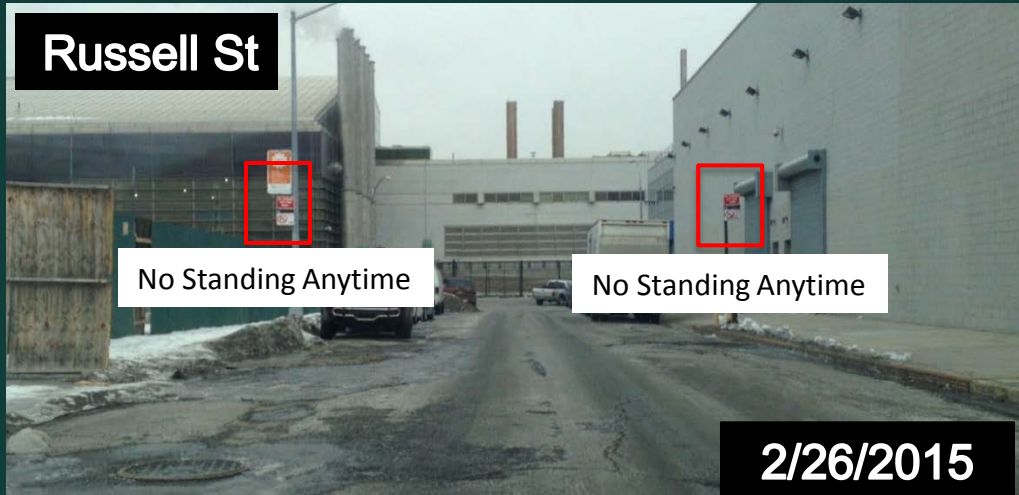
Monitor Street – Side Street Parking

Underutilized
Parking



Side Street Parking Regulations

Russell St



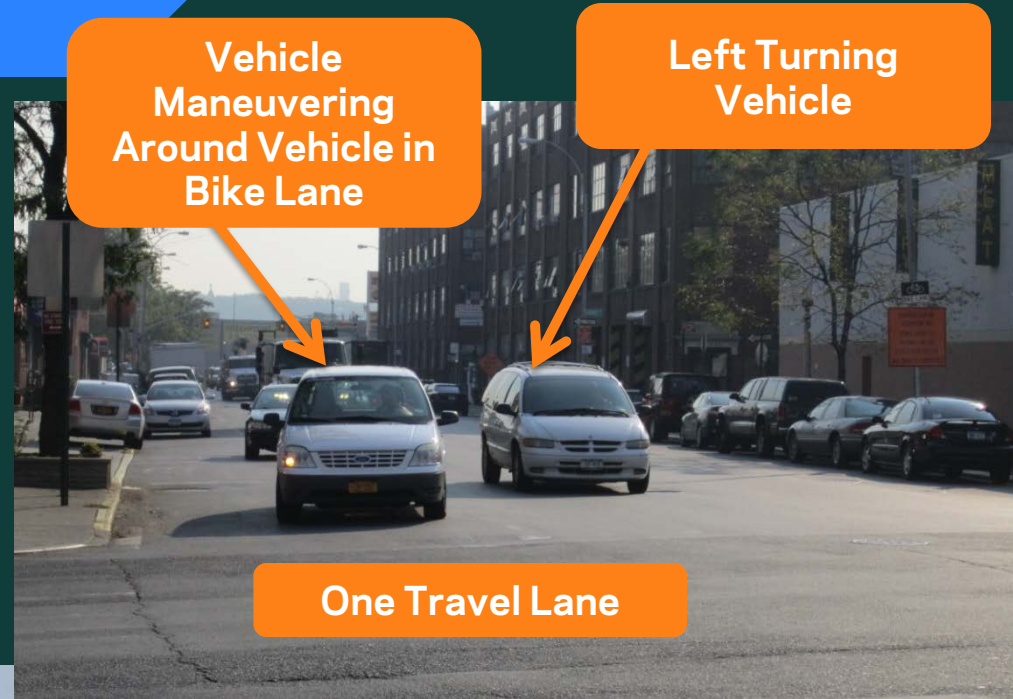
Monitor St



Existing Conditions

McGuinness Boulevard

- Frequent traffic backups past Provost St
- One travel lane approaching McGuinness Blvd

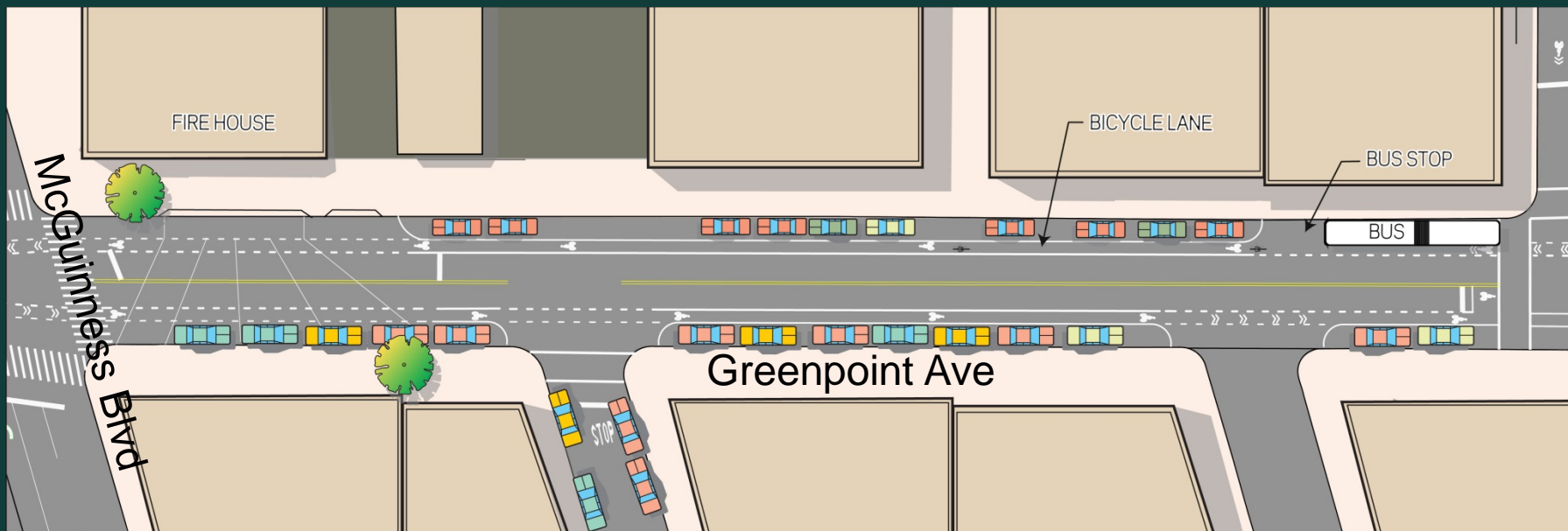


View From Provost St



Existing Conditions

McGuinness Blvd: Intersection of Greenpoint Ave and McGuinness Blvd



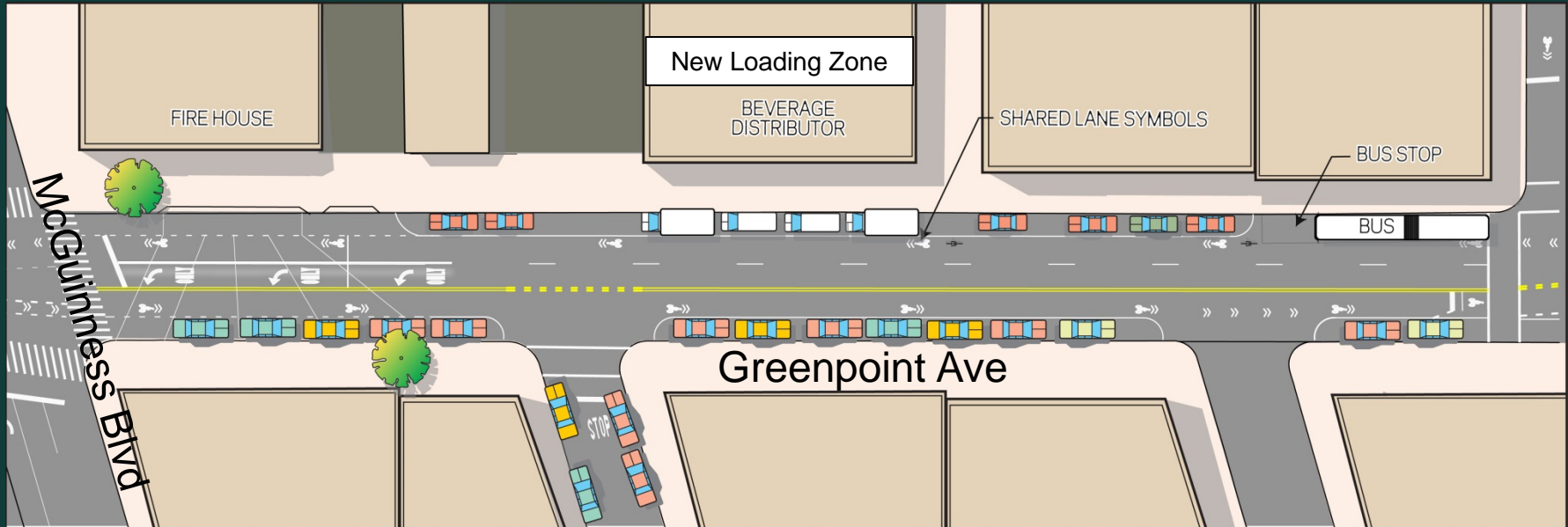
- One travel lane approaching McGuinness
- Bike lanes adjacent to parking
- Curbside parking

*Mid-Day Peak Hour Westbound to Southbound Turn Movements

Intersection	Turn Volume	% of WB Traffic
McGuinness Boulevard	181	42%

Proposed Design

McGuinness Blvd: Intersection of Greenpoint Ave and McGuinness Blvd



- Two travel lanes approaching McGuinness Blvd
- Protected west bound left turn phase
- Shared lane markings
- Mid-block part-time loading zone

Overview

- Greenpoint Avenue (Kingsland Ave to Provost St)
 - Two travel lanes for westbound traffic
 - Repurpose parking lane for travel lane
 - Curbside bike lanes
 - Eliminate unorganized merge at Kingsland intersection
- McGuinness Blvd Intersection
 - Two travel lanes approaching McGuinness Blvd on Greenpoint Ave
 - Lane assignment markings
 - Protected west bound left turn phase
 - Shared lane bike markings in each direction on Greenpoint Ave (Provost St to McGuinness Blvd)

Questions?

**Thank
You**