

B82 Southern Brooklyn Select Bus Service

For presentation to CB 15 Transportation Committee | May 16, 2017



Overview

- **Project Background**
- **B82 SBS Proposed Designs**
- **Next Steps**
- **Questions and discussion**

B82 Project Background

The Southern Brooklyn B82 corridor was identified as a potential candidate for Select Bus Service in the 2009 Bus Rapid Transit Phase II Study.

- Serves 32,000 daily riders on B82 Limited and Local
- Heavily used route with slow trips
- Important east-west transit connection across Southern Brooklyn
- Connects to **D** **N** **F** **B** **Q** **L** subway lines and 21 bus routes, including B44 Nostrand SBS and B46 Utica SBS
- Serves areas far from the subway



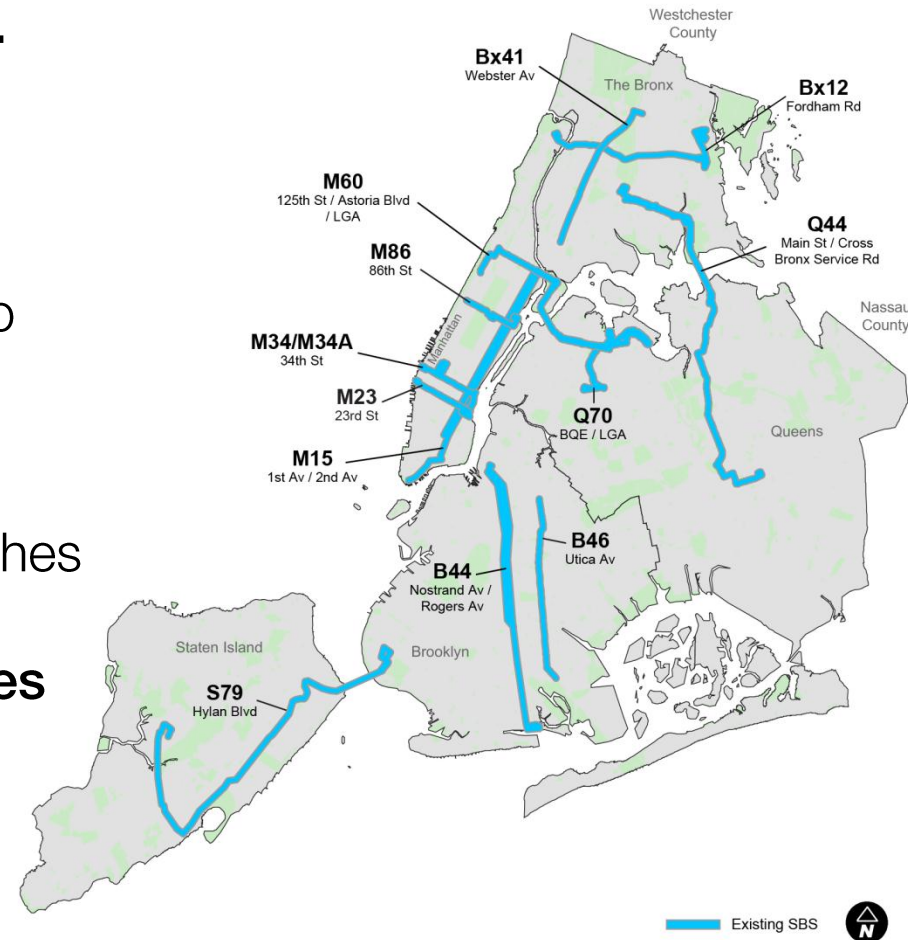
Select Bus Service in New York City

Select Bus Service (SBS) is New York City's brand name for Bus Rapid Transit: an improved bus service that offers fast, frequent, and reliable service on high-ridership bus routes.

SBS has brought:

- 10-30% faster bus speeds
- About 10% increase in ridership
- More reliable service
- Customer satisfaction of 95%
- Safer streets / reduction in crashes

There are 12 Select Bus Service routes in operation serving all 5 boroughs.



Select Bus Service Features

Dedicated Bus Lanes



Signal Priority for Buses



- **Faster** bus rides
- **Reduced traffic conflicts** between buses and traffic
- **More reliable** bus service
- Buses spend **less time stopped** at red lights

Off-Board Fare Collection



All-Door Boarding



- **Quicker** bus boarding
- Buses spend **less time waiting** at bus stops

Select Bus Service Features

Improved Station Amenities



Real-Time Passenger Information



- **More attractive, appealing** bus stops
- **Better trip information** for riders to **know when** the bus is coming
- **More comfortable wait** for the bus

Pedestrian Safety Improvements



- **Better visibility** for pedestrians, bus operators, and drivers
- **Clearer, shorter** pedestrian crossings

Community Engagement

- **Borough Hall Kickoff Meeting**
(June 2015)
- **Online Feedback Portal Launches**
(August 2015)
 - Over 130 location specific comments to date
 - Site is still live at nycdotfeedbackportals.nyc
- **On-Street Outreach**
(August 2015 – August 2016)
 - Over **1500** passengers reached at **12** Bus Stops
 - **3000** project information cards distributed
- **Stakeholder Meetings**
(June 2015 – present)
 - **27** meetings to date across the corridor
- **Community Board Meetings**
(January 2016 – Present)



Community Engagement

2015

- Elected Officials Briefing Kickoff
- Kings Highway BID Meeting
- On-Street Outreach:
 - Pennsylvania Ave
 - Kings Highway at E.15th St
 - Ralph Ave at Flatlands Ave
 - Bay Parkway at 86th St
 - Glenwood Rd at Rockaway Parkway
 - Flatlands Ave at Rockaway Parkway
 - Bay Parkway at 86th St #2
 - Kings Highway at W. 7th St
 - Kings Hwy at McDonald Ave
 - Kings Hwy at Ocean Ave
 - Kings Hwy at E. 15th St #2
- Brooklyn Borough Service Cabinet Presentation
- Kings Highway BID Walkthrough

2016

- CB18 Full Board Presentation
- Kings Highway BID Monthly Meeting Presentation
- NYCHA Breukelen Houses TA President Briefing
- Holy Family RC Church
- Starrett City TA President Briefing
- NYCHA Breukelen Houses TA Meeting
- Brooklyn Auditory Oral School Consultation
- Starrett City TA Meeting
- CB18 Leadership Meeting
- Fraser Square Field Meeting
- New York Community Hospital Walkthrough
- St Matthew's Church Briefing
- Canarsie Full Gospel Briefing
- Christian Cultural Center Briefing
- Mt. Sinai Beth Israel Walkthrough

2016 *continued*

- Stakeholder meeting with Kings Hwy Beautification Association, Edith and Carl Marks Center
- Magen David Yeshiva Discussion
- Christian Cultural Center Traffic Observation
- Kings Hwy @ Fraser Square Constituent Walkthrough

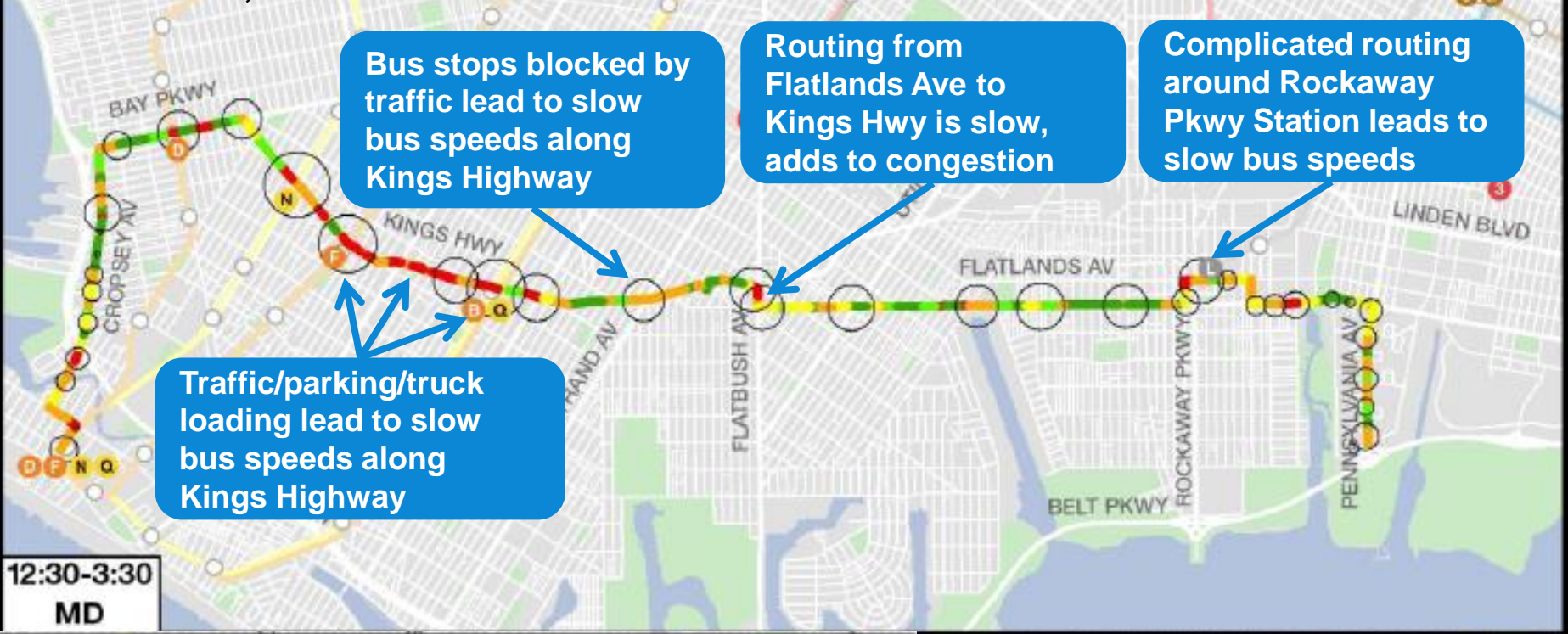
2017

- Library Outreach
 - Canarsie Branch
 - Highlawn Branch
 - Kings Highway Branch
 - Highlawn Branch #2
- Senior Centers Outreach
 - Vandalia Neighborhood
 - Abe Stark Center
 - Midwood Neighborhood Center
 - Ocean Parkway Neighborhood Center

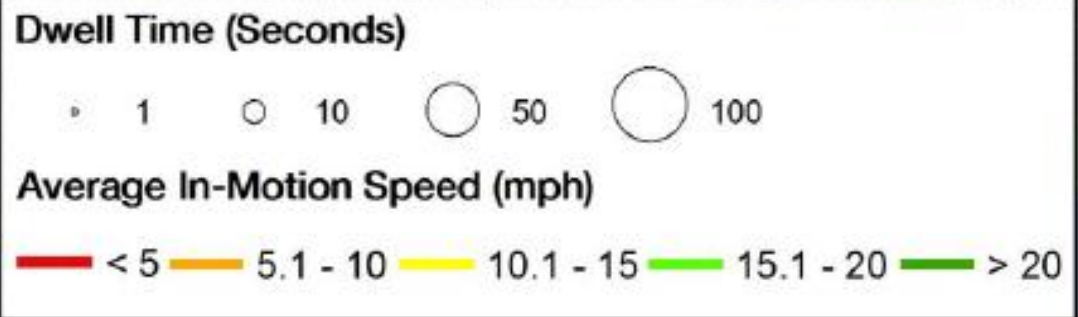
CB 15 Outreach

Existing B82 Bus Speeds

B82 Eastbound, 12:30-3:30 MD



12:30-3:30 MD



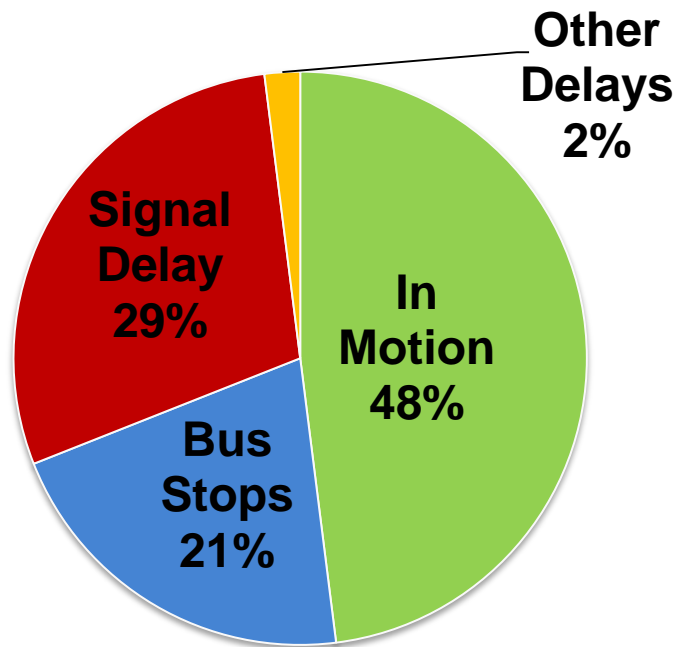
Traffic/parking/truck loading lead to slow bus speeds along Kings Highway

Bus stops blocked by traffic lead to slow bus speeds along Kings Highway

Routing from Flatlands Ave to Kings Hwy is slow, adds to congestion

Complicated routing around Rockaway Pkwy Station leads to slow bus speeds

B82 Transit Issues



- Over 50% of trip spent delayed, crawling, or at bus stop
- Customers wait in long lines to pay on board the bus
- Bus stops lack amenities, not ADA accessible



B82 Safety Issues



nyc.gov/visionzero

- Long crossings
- Lack of pedestrian refuges
- Limited visibility
- Complex intersections
- Difficult turns across traffic
- Narrow median bus stops



B82 SBS Proposed Route

- Proposed B82 SBS Route
- Existing B82 Limited Route
- Top 5 Crash Location

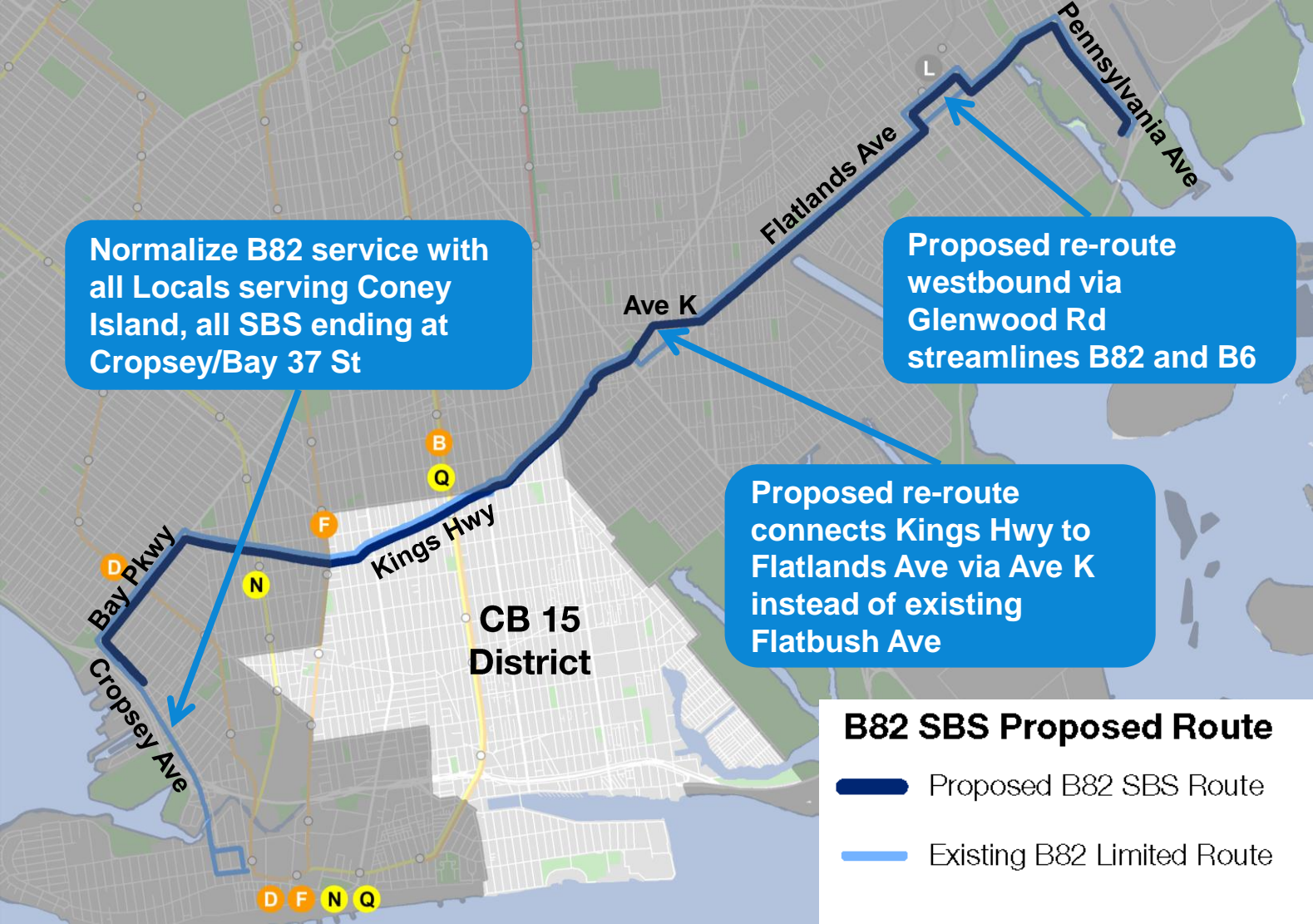
B82 SBS Service

B82 Limited will be converted to B82 SBS

- Within CB15, B82 SBS will serve the **same stops as the existing B82 Limited**
- B82 SBS will **operate for more hours of the day** than the B82 Limited (existing Limited service does not operate mid-day or in the evenings)
- **All current stops will still be served** by the B82 Local



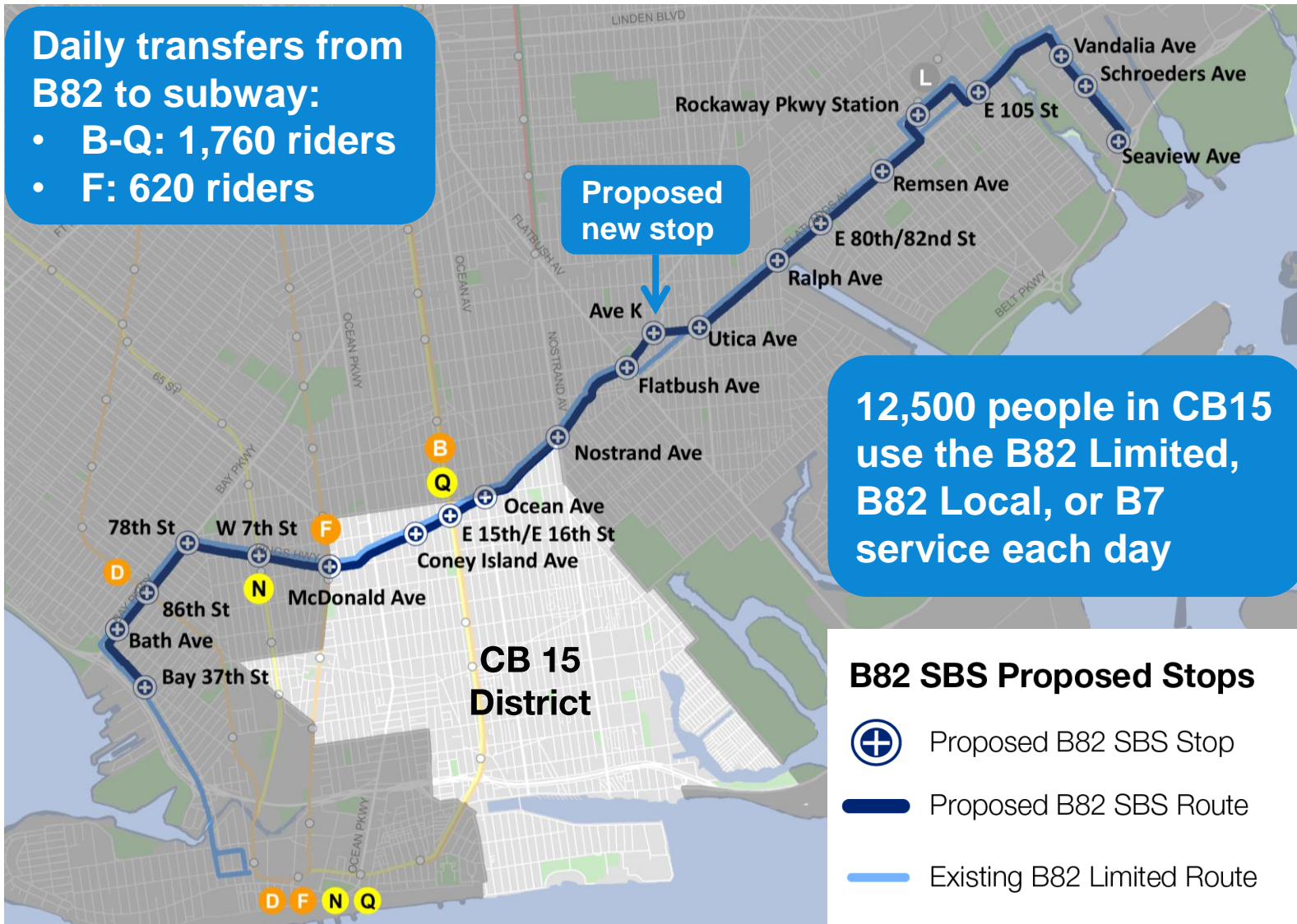
B82 Route Changes



B82 SBS Stops

Daily transfers from B82 to subway:

- B-Q: 1,760 riders
- F: 620 riders



12,500 people in CB15 use the B82 Limited, B82 Local, or B7 service each day

B82 SBS Proposed Stops

- ⊕ Proposed B82 SBS Stop
- Proposed B82 SBS Route
- Existing B82 Limited Route

B82 SBS Proposed Designs

Existing: Kings Highway (Bay Pkwy to Ocean Ave)

- Commercial/shopping corridor
- Narrow roadway with one lane in each direction
- Major east-west transit corridor
 - Used by B82 Local, B82 Limited, B7 Local, other non-MTA buses
 - 3 subway stations (B/Q, F, N)
 - During AM and PM rush hours, buses come every 1-2 minutes along Kings Hwy
- Local truck route

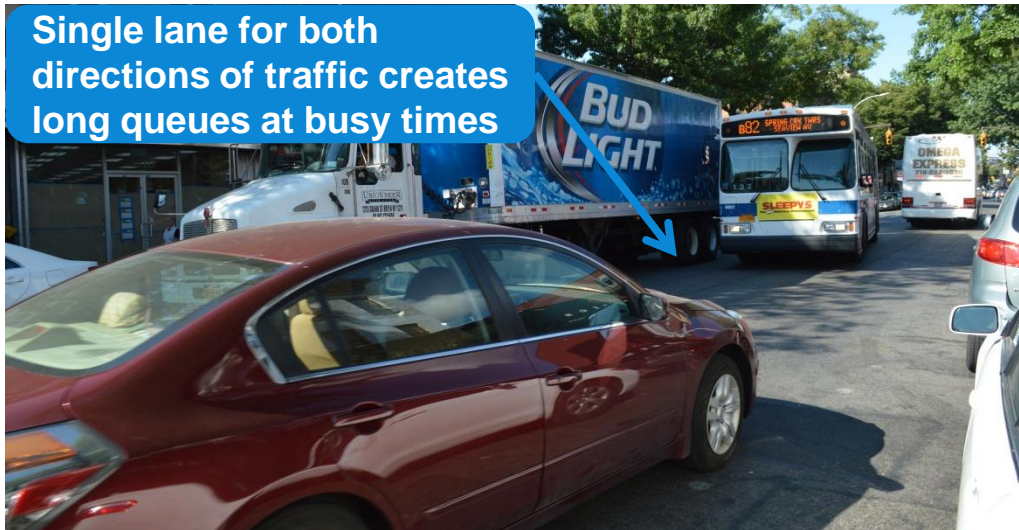


Kings Hwy at Coney Island Ave, looking east



Kings Hwy at E 16 St, looking east

Existing: Kings Highway (Bay Pkwy to Ocean Ave)

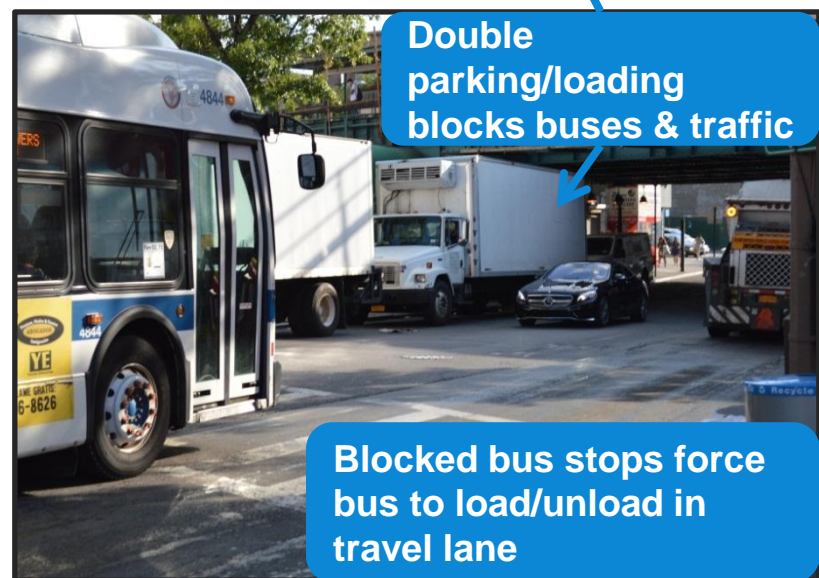


Single lane for both directions of traffic creates long queues at busy times



Truck unloading in bus stop

Bus unable to pull into stop, blocks lane



Double parking/loading blocks buses & traffic

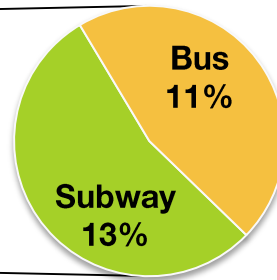
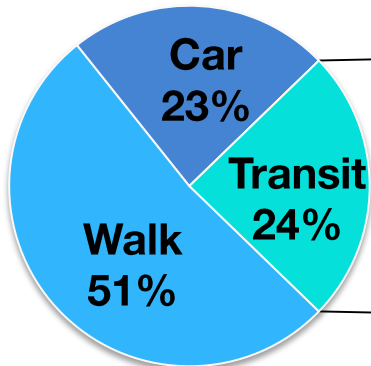
Blocked bus stops force bus to load/unload in travel lane

Kings Highway Shoppers Survey

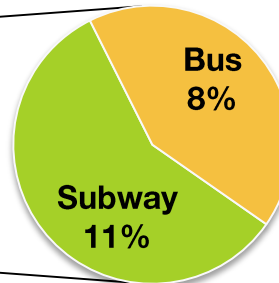
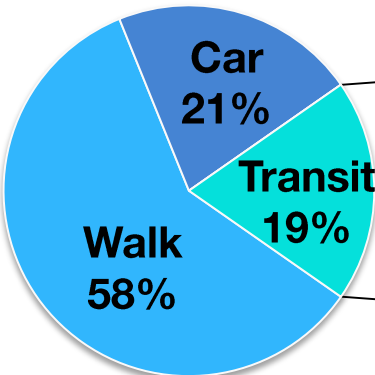
- Surveys conducted March and April 2016
- Face-to-face interviews with 7,500 people on Kings Highway between W 10th St and Ocean Ave

How People Get to Kings Highway

Weekday



Weekend



Primary Purpose of Trip

1. Shopping (grocery, drug/discount store, clothing/shoes)
2. Work
3. Dining/restaurant
4. Medical

1. Shopping (grocery, drug/discount store, clothing/shoes)
2. Dining/restaurant
3. Work
4. Personal errand

Kings Highway Business Survey

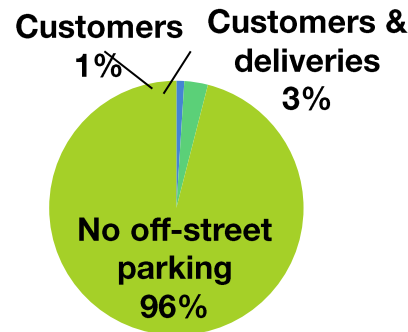
- Surveys conducted February and March 2016
- Interviews with 235 businesses along Kings Highway
- Questions on parking and delivery habits and needs

For how long does a customer normally visit your business?

85%

of businesses report typical visit is 1 hour or less

Does your business offer off-street parking for these uses:



0%

of businesses offer employee parking; many feed meters throughout day

What delivery/loading problems do you deal with?

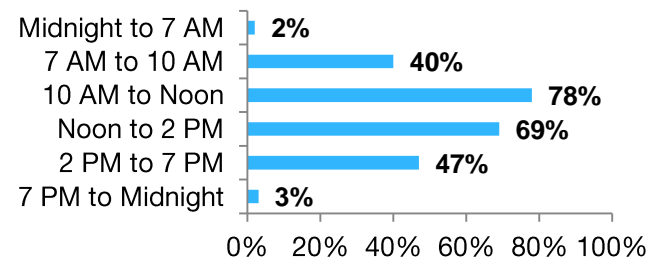
67%

of businesses report double parking interferes with deliveries

46%

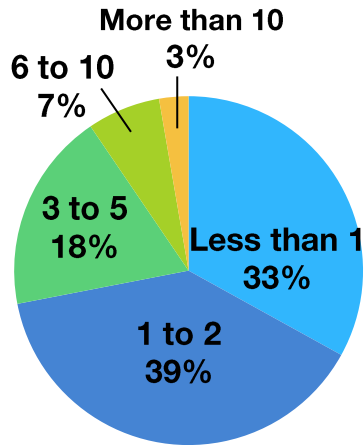
of businesses report vehicles at curb interfere with deliveries

At what times does your business typically receive deliveries?



Kings Highway Business Survey

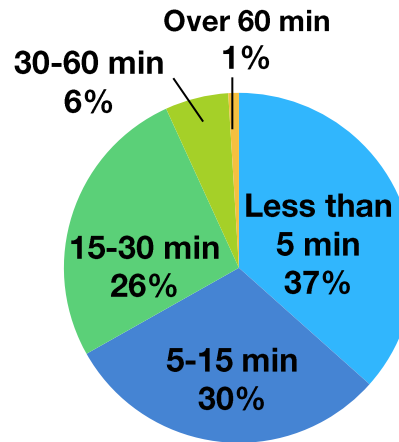
How many deliveries do you receive on a typical weekday?



2/3

of businesses receive 1 or more deliveries per day

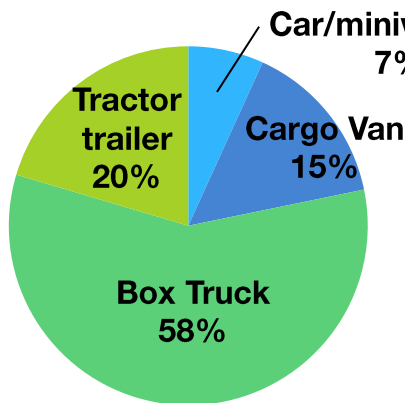
How long do deliveries typically take?



2/3

of deliveries take 15 minutes or less

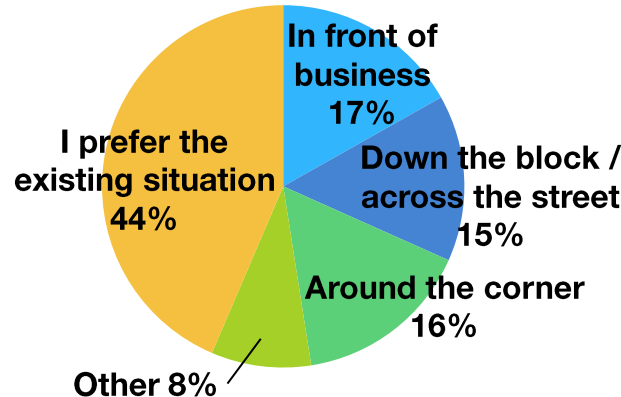
How do deliveries arrive?



80%

of deliveries arrive by box truck or smaller vehicle

What type of delivery zone would be most helpful for your business?



48%

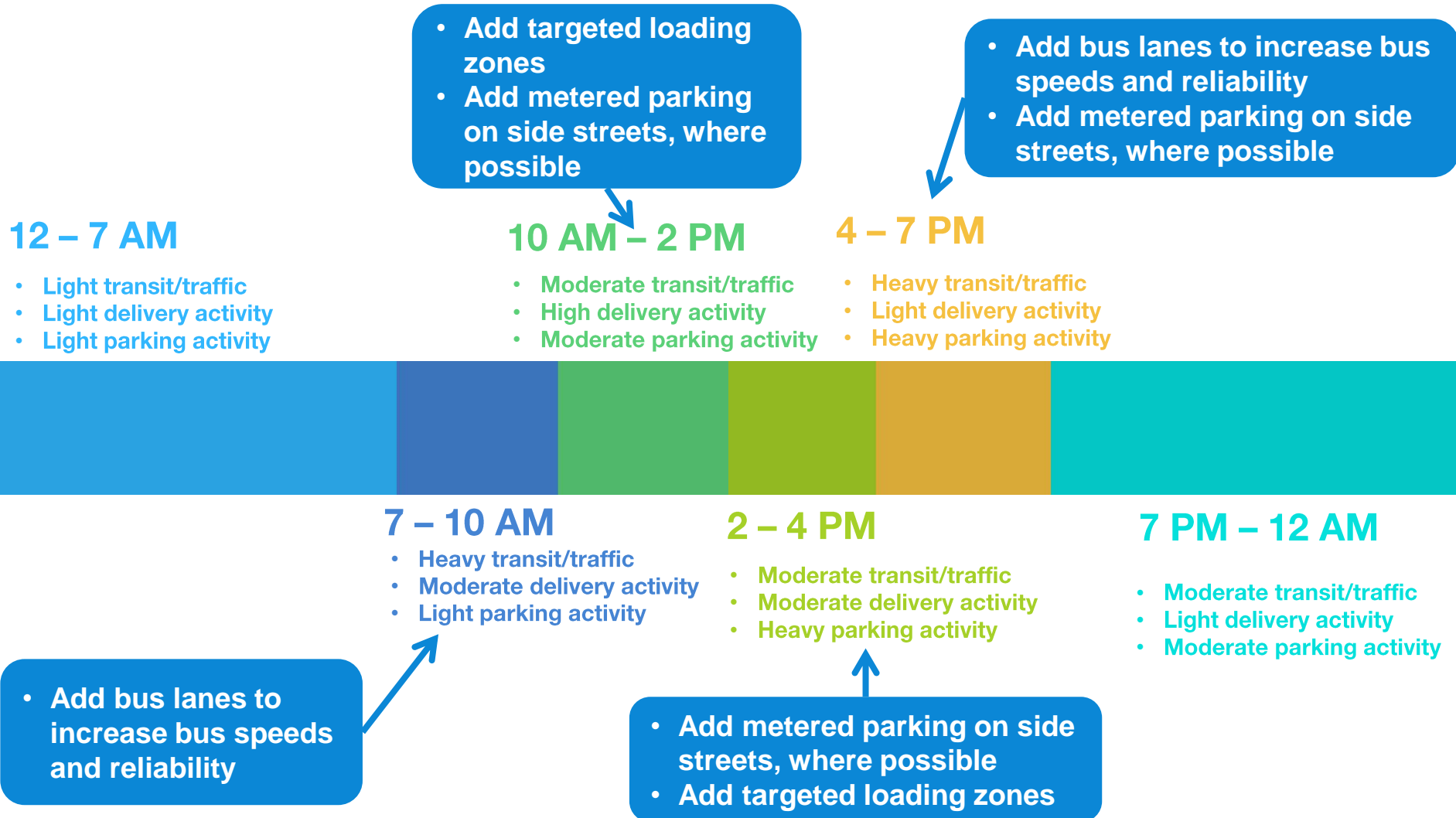
of businesses would find a delivery zone helpful

Survey & Time Lapse Takeaways

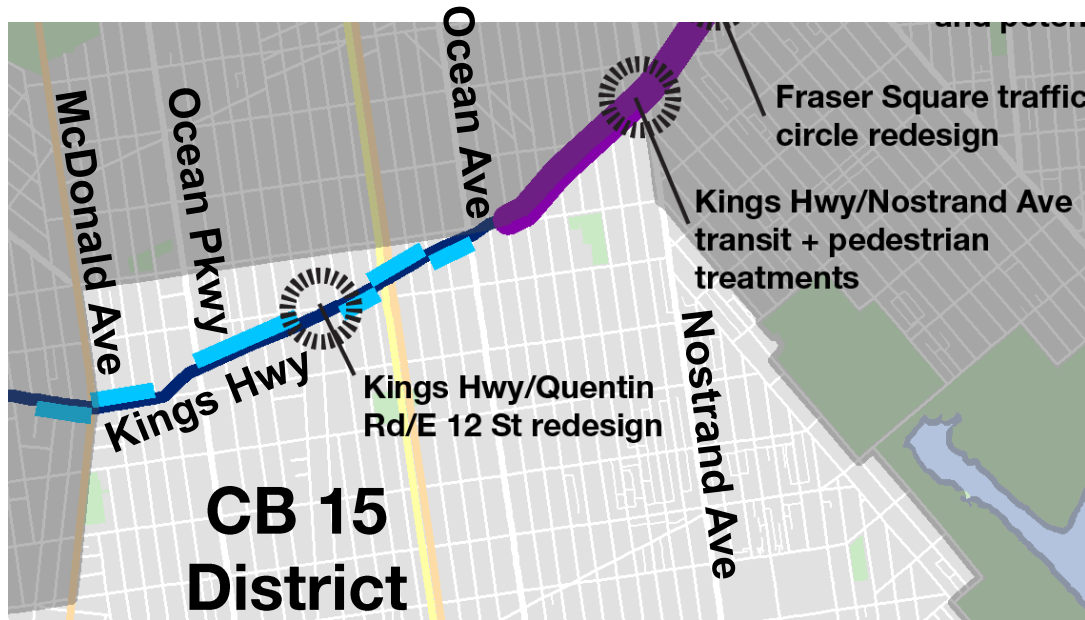
- Large majority of people coming to Kings Highway arrive without a car, either on foot or by transit
- For those who drive, parking is on-street, in demand particularly 12-7 PM, short visits per business (< 1 hr), availability limited by meter-feeding throughout day
- Deliveries are common, often short, occur most frequently 10 AM – 2 PM, in small trucks or vans, often hindered by parking/double parking activity
 - About half of businesses would find nearby delivery zone useful

Proposed: Kings Highway (Bay Pkwy to Ocean Ave)







Kings Highway in 24 Hours



District Treatments



B82 SBS Street Treatments*

-  Bus lane one-way, along curb
-  Bus lane two-way, travel lane
-  Bus lane two-way, extra lane space
-  Widen/reconfigure travel lanes
-  Major safety treatment
-  No new treatment proposed

***Note: Bus lanes serve all buses, emergency vehicles, and right turns**

- Key design pieces:
 - Kings Hwy curbside bus lanes: McDonald Ave to E 4 St (north side), Ocean Pkwy to Coney Island Ave (north side), E 13 St to E 15 St (south side), E 15 St to E 18 St (north side), E 18 St to Ocean Ave (south side)
 - Kings Hwy/Quentin Rd at E 12 St safety improvements
 - Kings Hwy main road bus lanes: E 23 St to Nostrand Ave
 - Kings Hwy at Nostrand Ave safety improvements







Proposed: Kings Highway (Bay Pkwy to Ocean Ave)



District Treatments



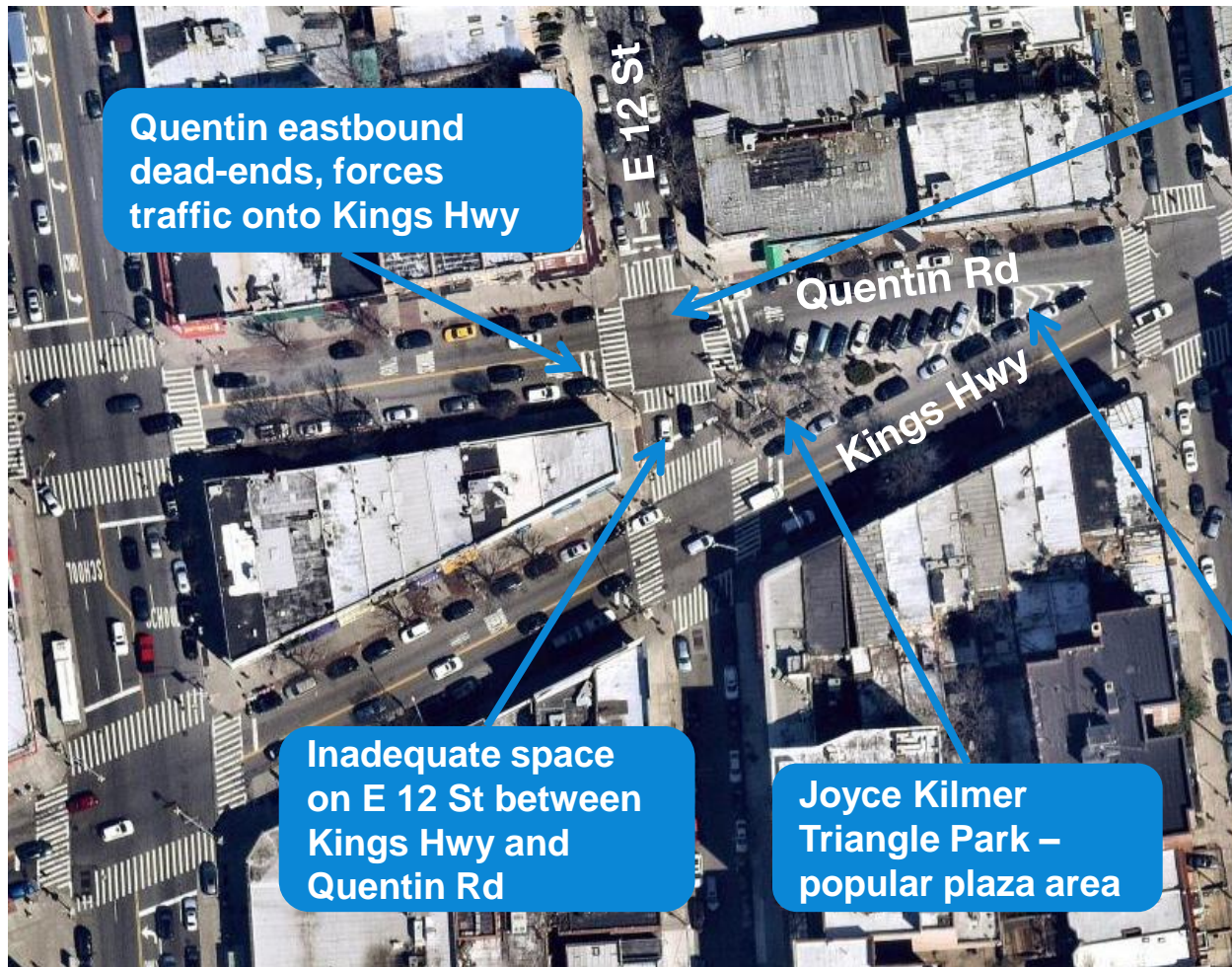
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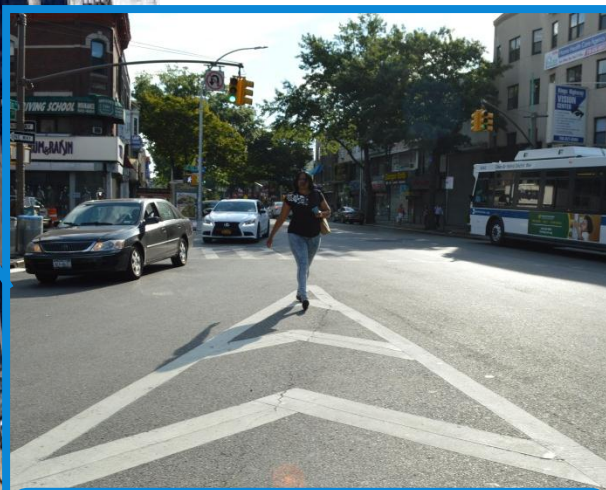
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Existing: Kings Highway at E 12 St



Traffic blocks intersection on E 12 St at Quentin Rd



Sidewalk dead-ends, forces pedestrians into street

Proposed: Kings Highway at E 12 St

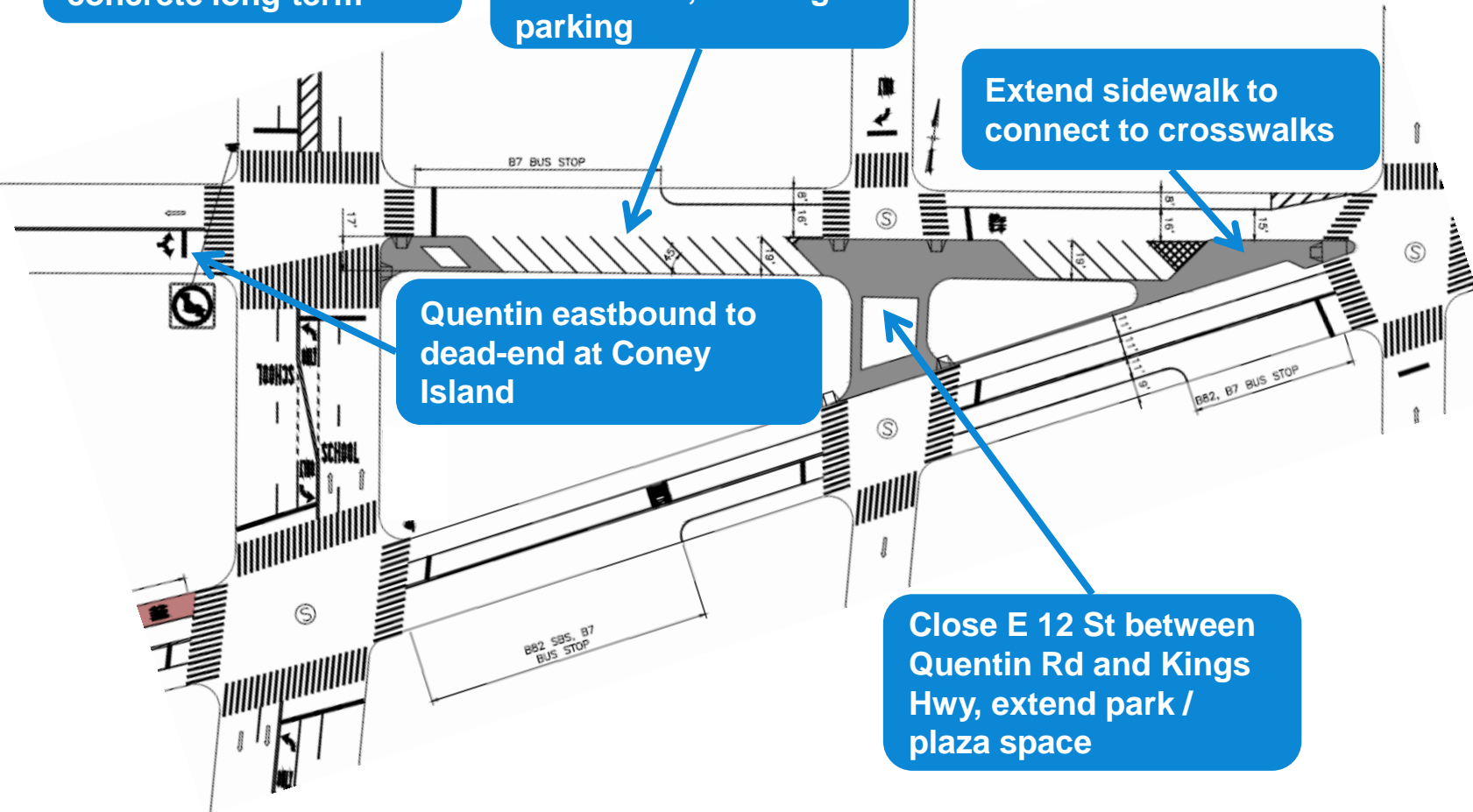
Areas marked in gray =
paint short-term,
concrete long-term

Convert this block of
Quentin Rd to one-way
westbound, add angled
parking

Extend sidewalk to
connect to crosswalks

Quentin eastbound to
dead-end at Coney
Island







Close E 12 St between
Quentin Rd and Kings
Hwy, extend park /
plaza space



District Treatments



B82 SBS Street Treatments*

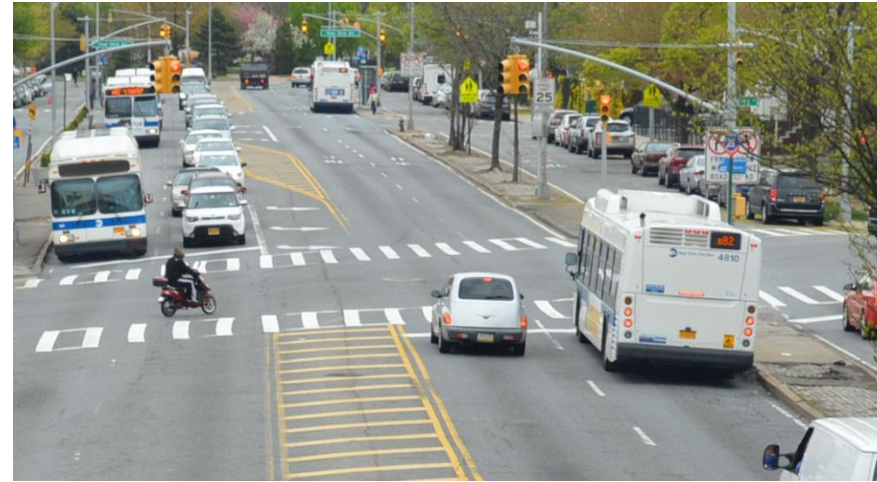
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 - Kings Hwy/Quentin Rd at E 12 St safety improvements
 - Kings Hwy main road bus lanes: E 23 St to Nostrand Ave
 - Kings Hwy at Nostrand Ave safety improvements

Existing: Kings Highway (E 23 St to Ave K)

- Wide, boulevard style portion of Kings Highway
- Narrow, deteriorating medians serve as bus stops
- Large, complex intersections
- Major east-west transit corridor
 - Used by B82 Local, B82 Limited, B7 Local, school buses, coach buses, other buses
 - During AM and PM rush hours, buses come once per minute along Kings Hwy



Kings Hwy at Ave N, looking east



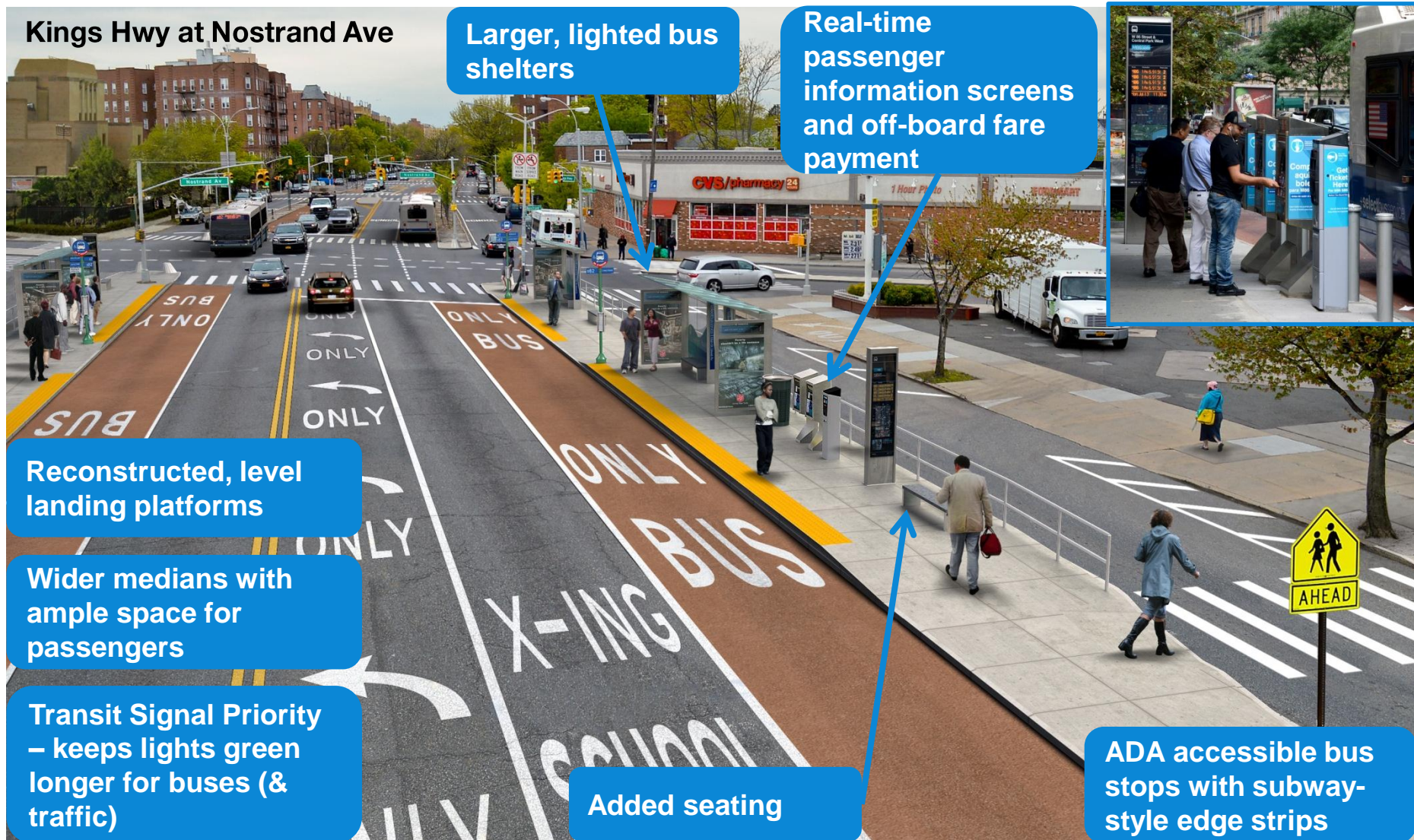
Kings Hwy at Ave K, looking northeast

Existing: Kings Highway (E 23 St to Ave K)

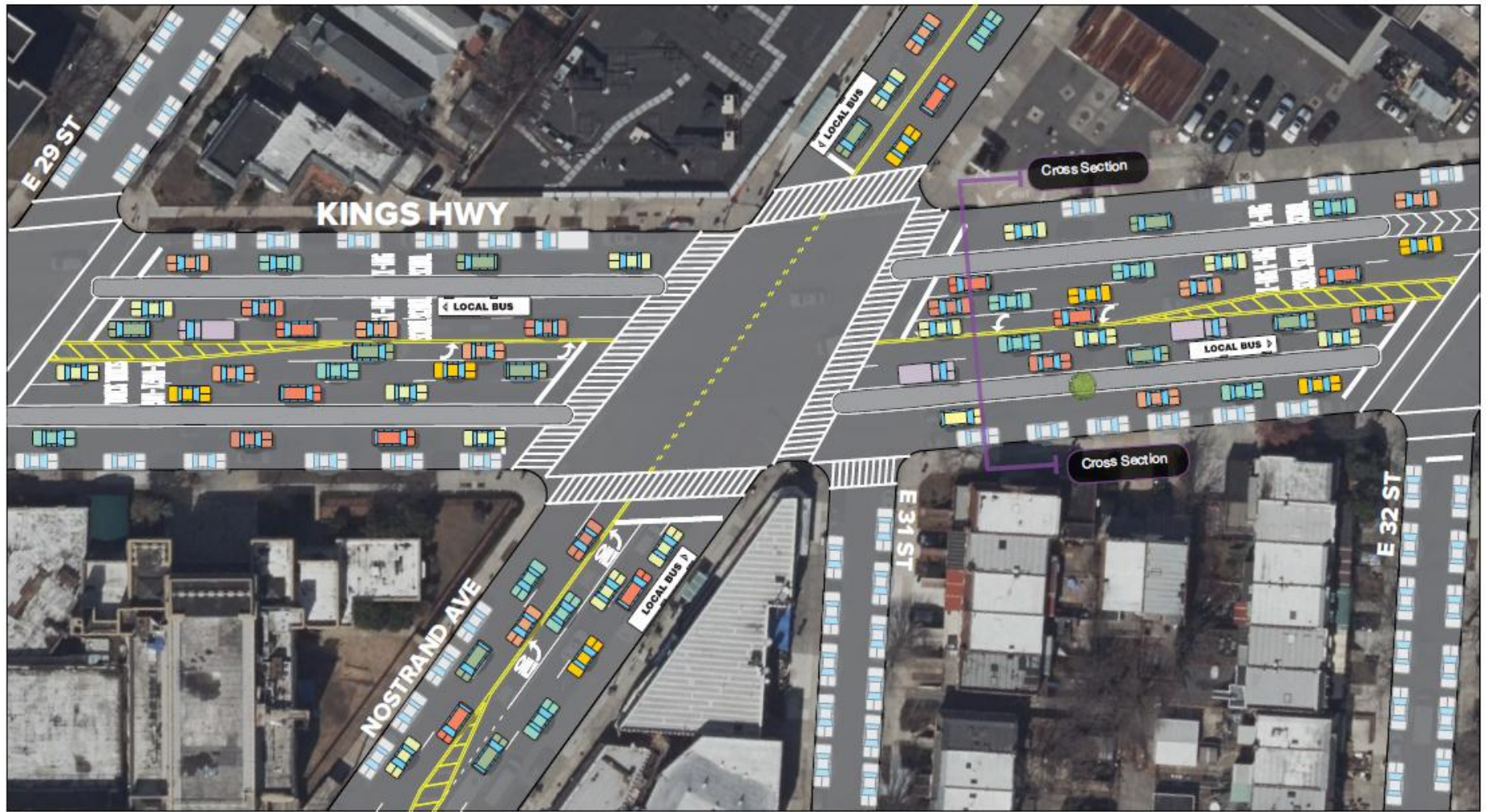
Kings Hwy at Nostrand Ave



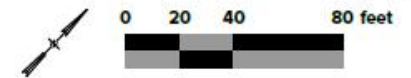
Proposed: Kings Highway (E 23 St to Ave K)



Existing: Kings Highway (Nostrand Ave to Ave K)



Proposed: Kings Highway (Nostrand Ave to Ave K)



Next Steps

Spring 2017

- Present draft plan to community boards and elected officials
- Continue stakeholder outreach

Summer 2017

- Update street design based on community feedback
- Begin implementation for critical safety and transit accessibility locations of project: Reconstruct medians at Kings Hwy at Nostrand Ave & Flatbush Ave

Fall 2017

- Present final plan to community boards and elected officials
- Continue stakeholder outreach

2018

- Implement project street designs, SBS stop amenities
- Launch B82 Southern Brooklyn Select Bus Service

Thank You!

- Questions?
- We appreciate your input! You can provide it at your convenience online:
 - www.nyc.gov/brt or
 - nycdotfeedbackportals.nyc/south-brooklyn-sbs
- To invite us to community events or give other feedback, please email us at **brt@dot.nyc.gov**

Questions and Discussion

