



# Brooklyn Ave & Kingston Ave

(Empire Blvd to Winthrop St)

## School Safety Improvements

Presentation to Community Board 9 | June 10, 2024



# Background

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

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# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Vision Zero Priority

### Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2023
- Priority Intersections, Corridors, and Areas identified for each borough

### Brooklyn Ave & Kingston Ave

- Located in a Vision Zero Priority Area
- Kingston Ave, Rutland Rd, and Empire Blvd are Vision Zero Priority Corridors



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Why Are We Here?

- 10+ schools within a block of Brooklyn Ave or Kingston Ave
- High volumes of students around arrival and dismissal times
- Concerns from neighborhood schools and CB 9 about speeding and dangerous driver behavior on Brooklyn Ave and Kingston Ave
- Complaints about drag racing on Kingston Ave in front of George Wingate Campus



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

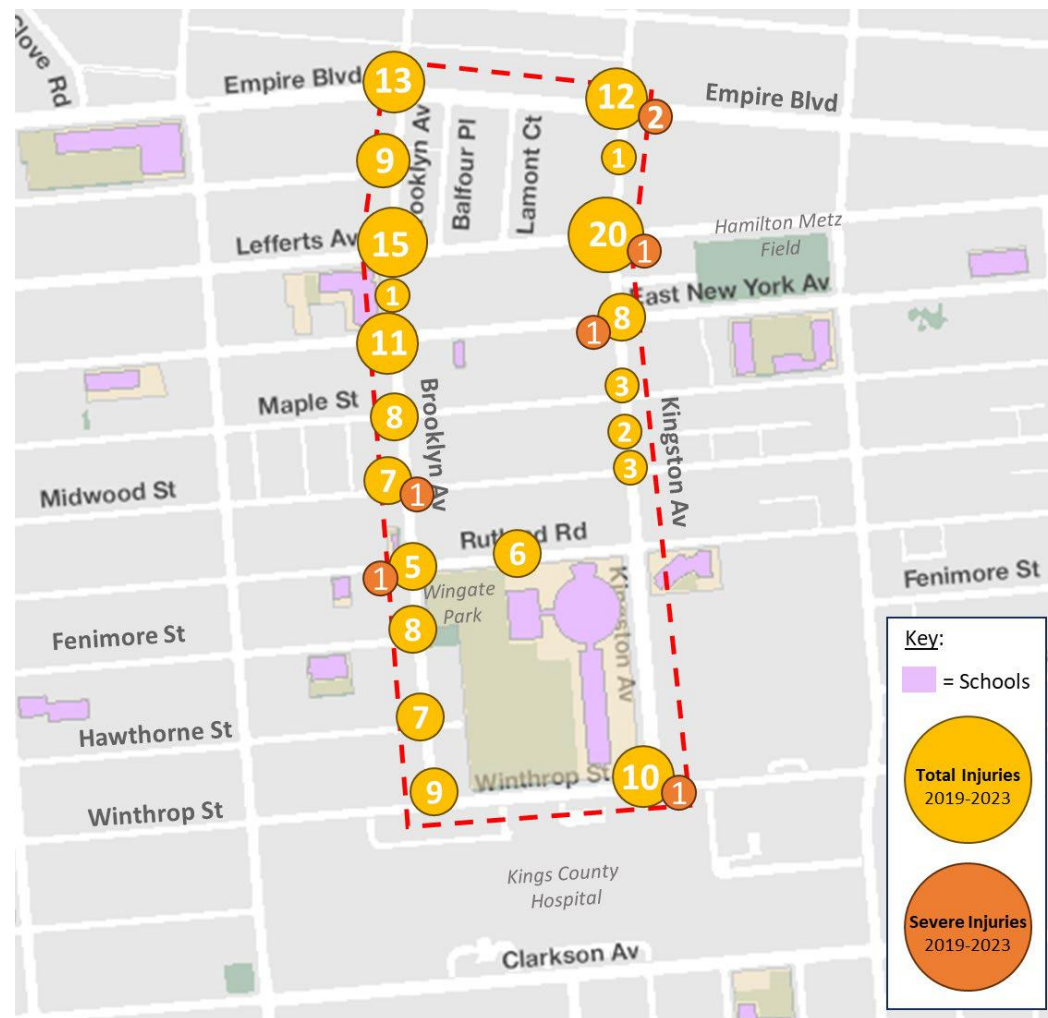
## Injury Data (2019-2023)

- 158 total injuries
- 71% of severe injuries were pedestrians or cyclists
- 50% of pedestrian injuries happened while crossing with the signal
- Children (ages 1-17) made up 14% of pedestrian and cyclist injuries

**Injury Summary, 2019-2023 (5 Years)**

Mode	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	28	1	0	1
Bicyclist	25	4	0	4
Motor Vehicle Occupant	102	2	0	2
Other Motorized	3	0	0	0
<b>Total</b>	<b>158</b>	<b>7</b>	<b>0</b>	<b>7</b>

Source: Fatalities: NYCDOT, Injuries: NYPD FORMS database KSI: Persons Killed or Severely Injured



# Existing Conditions

Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

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# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Speeding and Drag Racing



Wide roadways with low traffic volumes encourage speeding

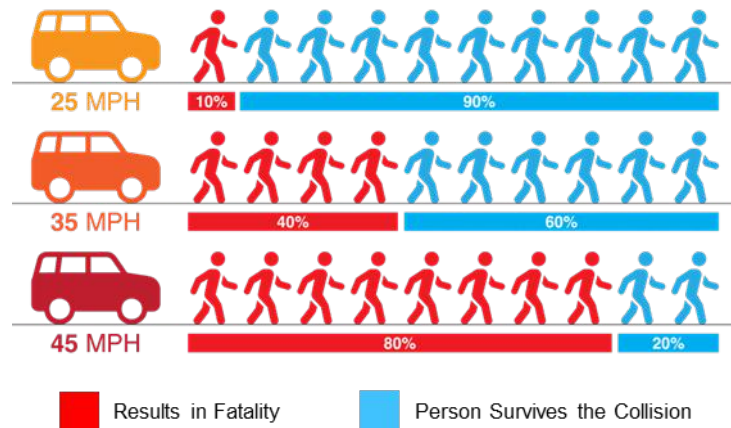
Concerns about drag racing and dangerous driving behavior



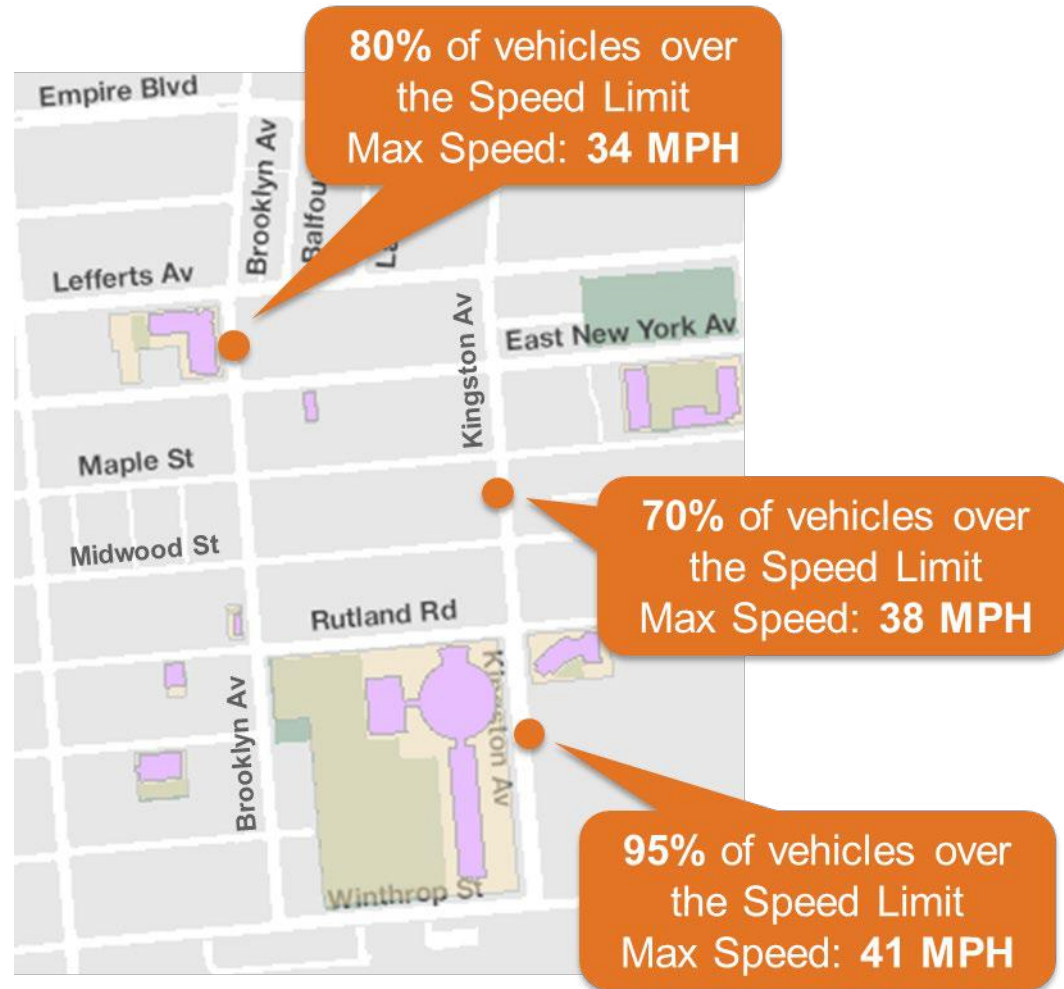
# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Speeding

- Conducted speed radar study at three points in the project area
- Found prevalent speeding on both corridors



Source: Vision Zero Network; IIHS





# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Long crossing distances

Long crossing distances with high volumes of student pedestrians



Brooklyn Ave at Lefferts Blvd, facing North



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Vehicles Fail to Yield for Pedestrians

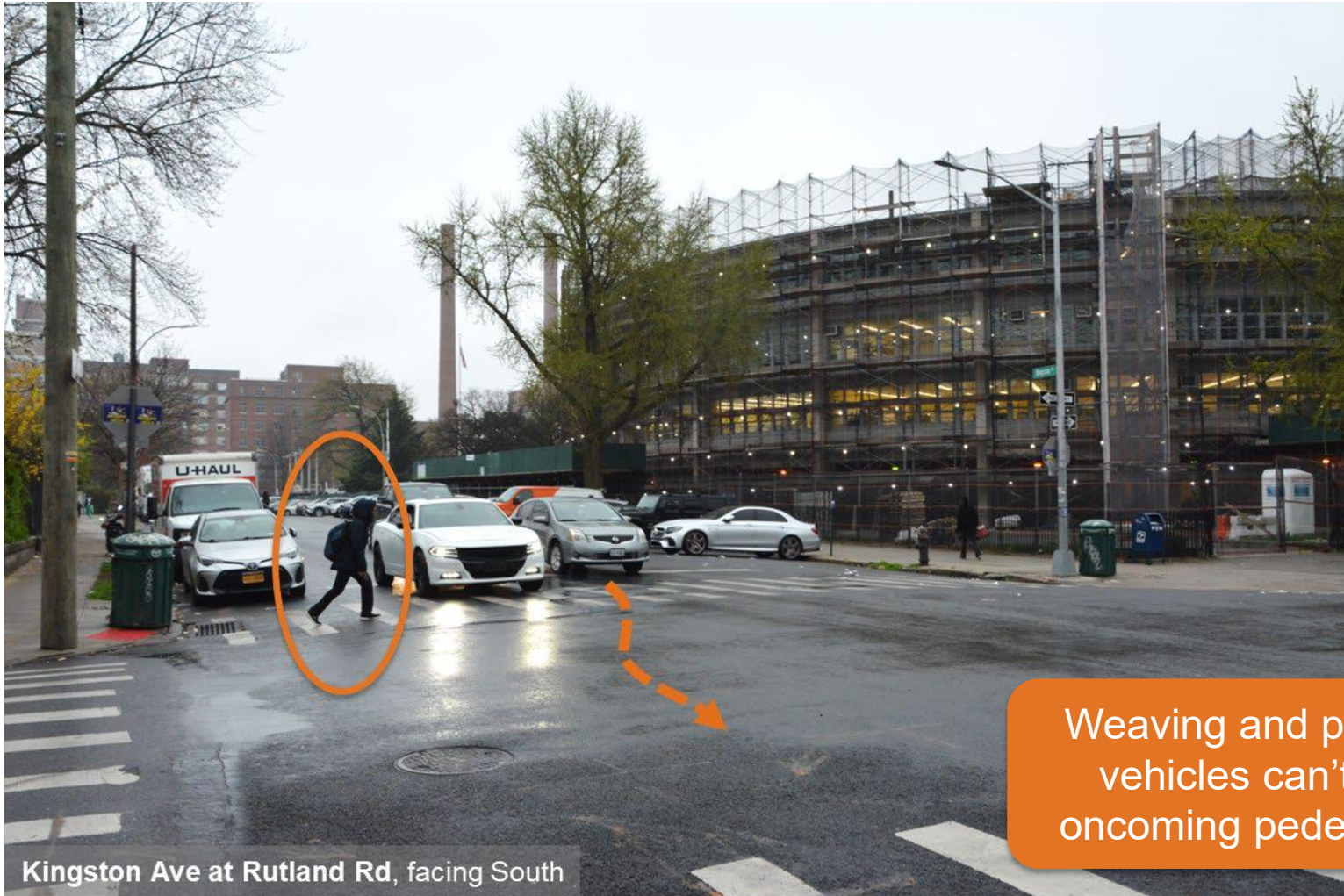


Vehicles fail to yield for pedestrians

Kingston Ave at Rutland Rd, facing South

# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Wide Roadway Encourages Unpredictable Passing



Weaving and passing vehicles can't see oncoming pedestrians

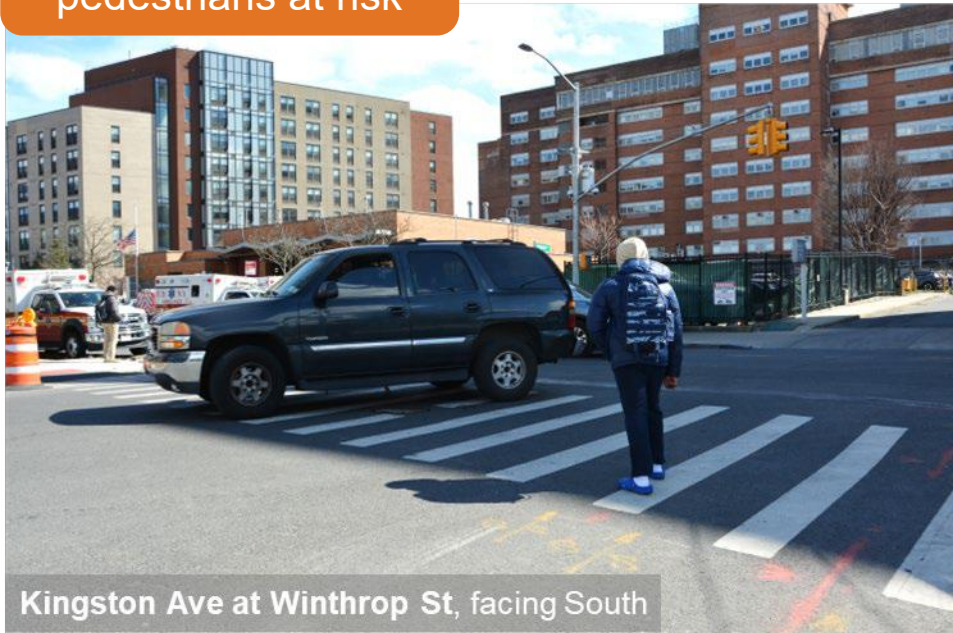
Kingston Ave at Rutland Rd, facing South



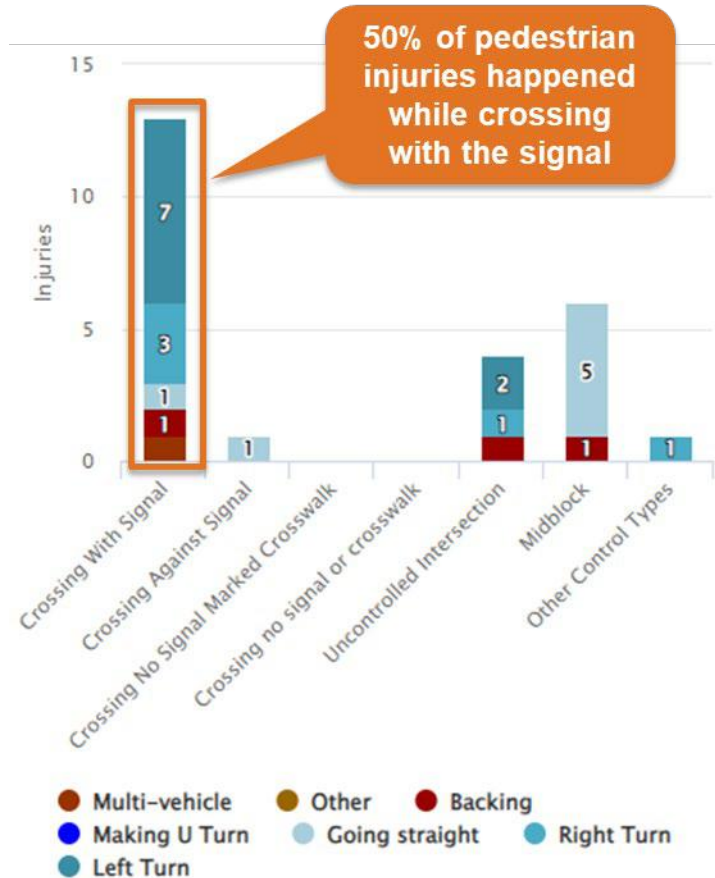
# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Fast Turns Onto Wide Streets

Fast wide turns put pedestrians at risk

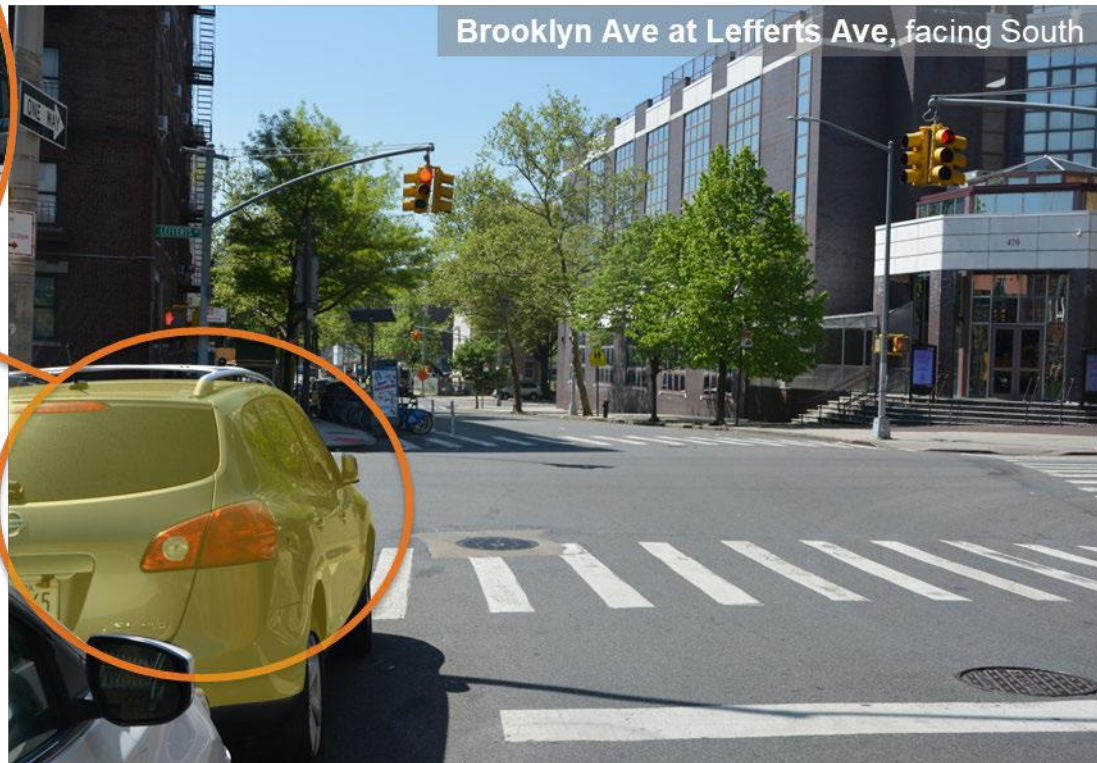


Pedestrian Injuries by Vehicle Action & Pedestrian Action



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Low Pedestrian Visibility



Cars parked all the way up to the crosswalk block visibility of student pedestrians



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Existing Conditions: Unsafe biking conditions

No clear place for cyclists



Lack of predictability creates conflict

Kingston Ave at Rutland Rd, facing South



# Proposal

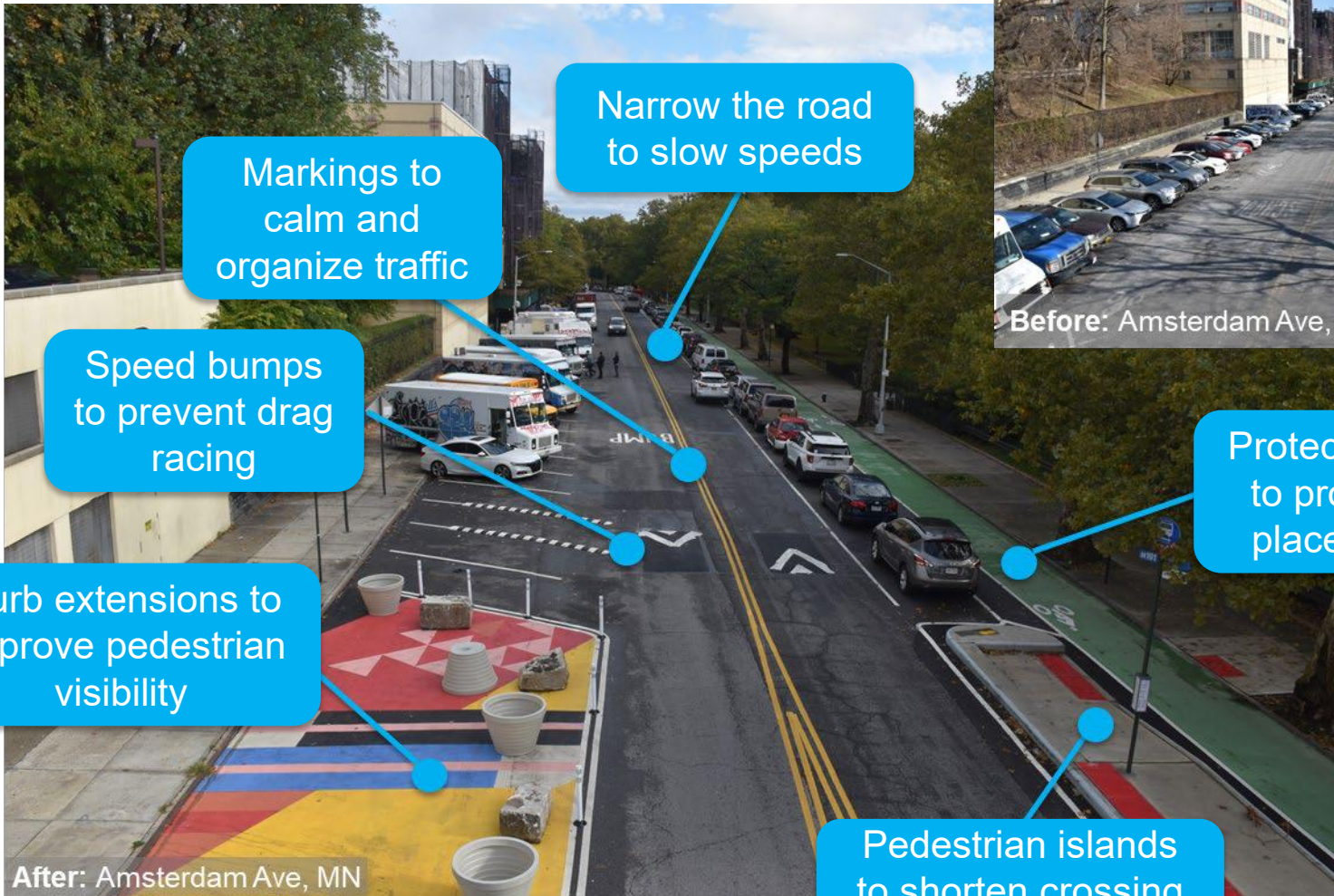
Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

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# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Proposal: Amsterdam Ave and W 190<sup>th</sup> St



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Safety Benefits of Bike Lanes

Street designs that include protected bike lanes increase safety for all users

**-15%** drop in all crashes with injuries

**-21%** drop in pedestrian injuries

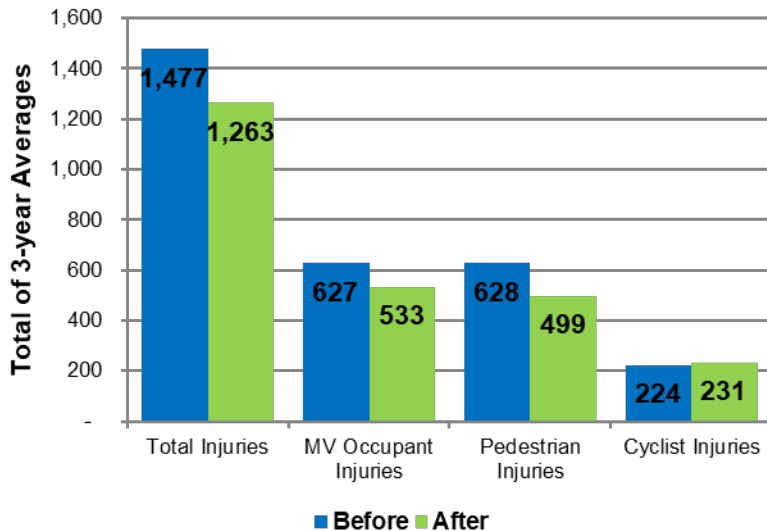
*on streets where protected bike lanes were installed 2007-2017*



5th Ave, MN

### Protected Bike Lanes

*Before and After Crash Data, 2007 - 2017*



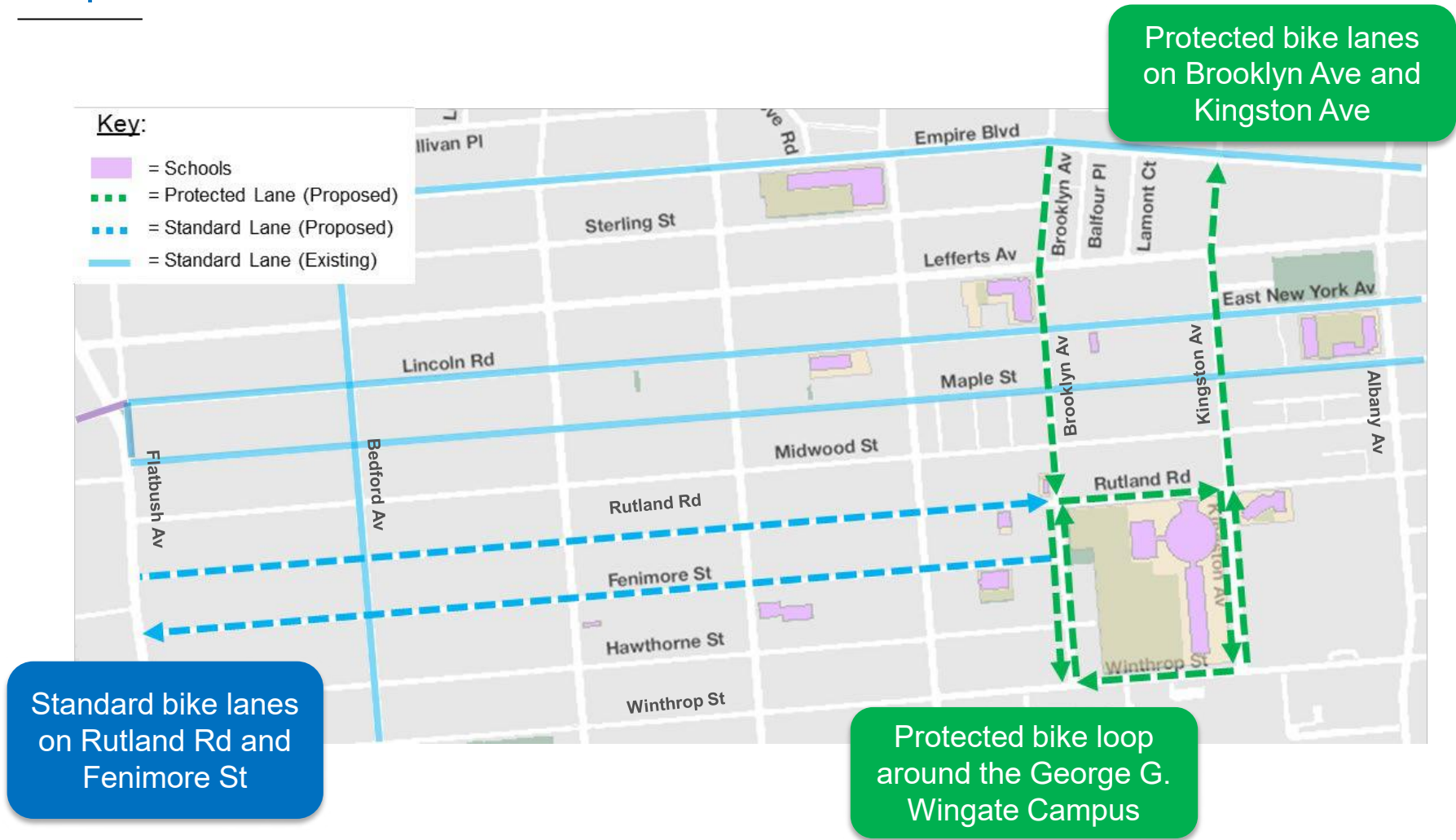
Prospect Park W, BK

Data from 25 separate protected bicycle lane projects installed from 2007-2014 with 3 years of after data. Includes portions of 1 Ave, 2 Ave, 8 Ave, 9 Ave, Broadway, Columbus Ave, Hudson St, Lafayette St / 4 Ave, Sands St, Allen/Pike St, Kent Ave, Prospect Park West, Flushing Ave, Bruckner Blvd & Longfellow Ave, Imlay St / Conover St, Paerdegat Ave. Only sections of projects that included protected bike lanes were analyzed. Source: NYPD AIS/TAMS Crash Database



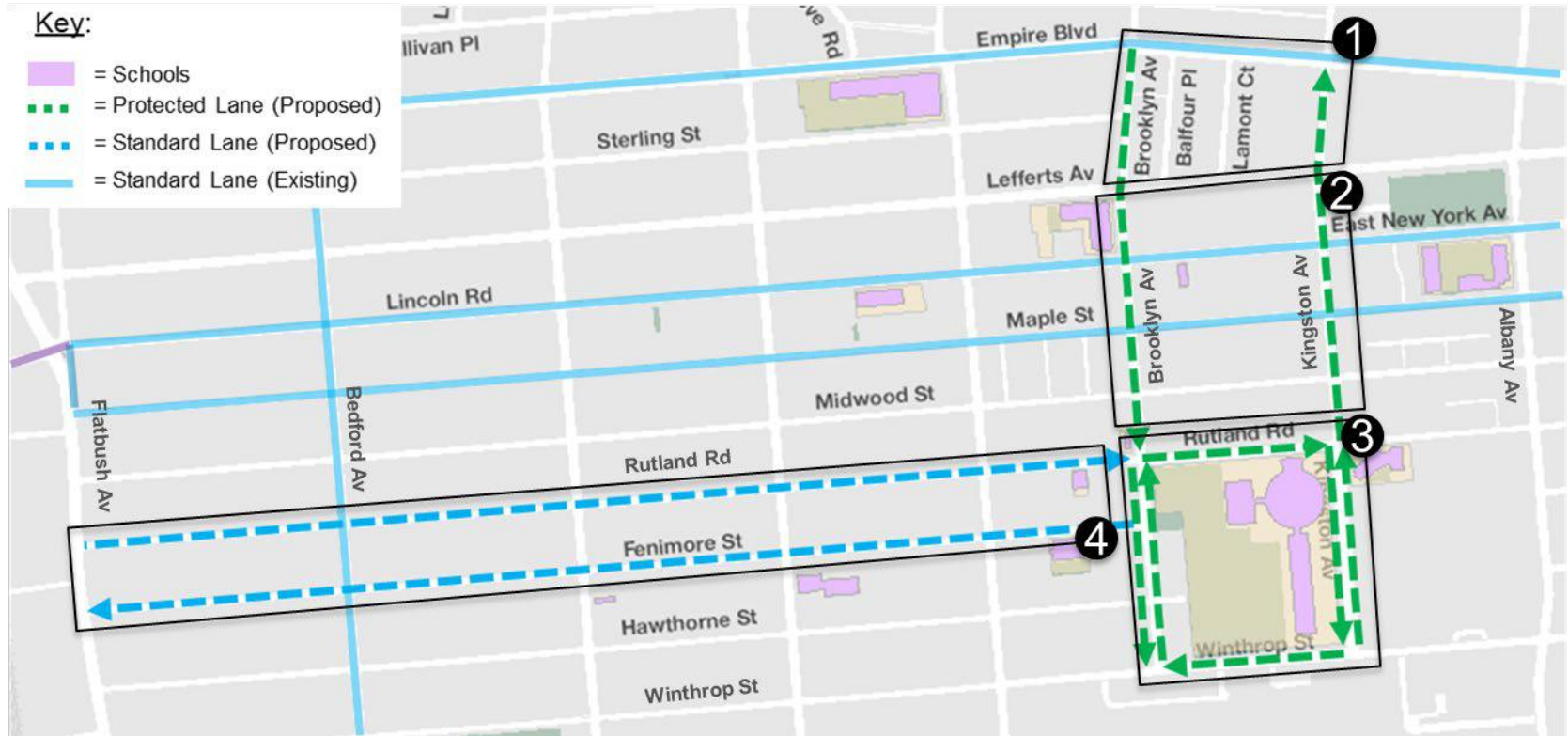
# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Proposal: Protected Bike Lanes



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

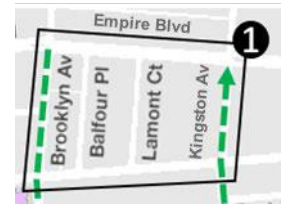
## Proposal Details



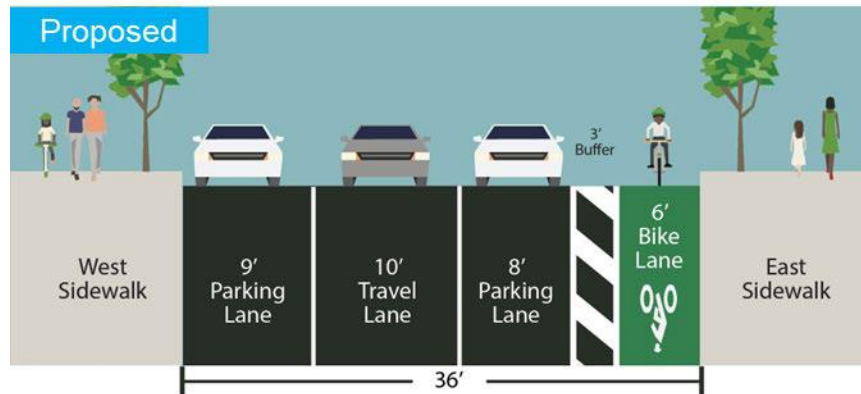
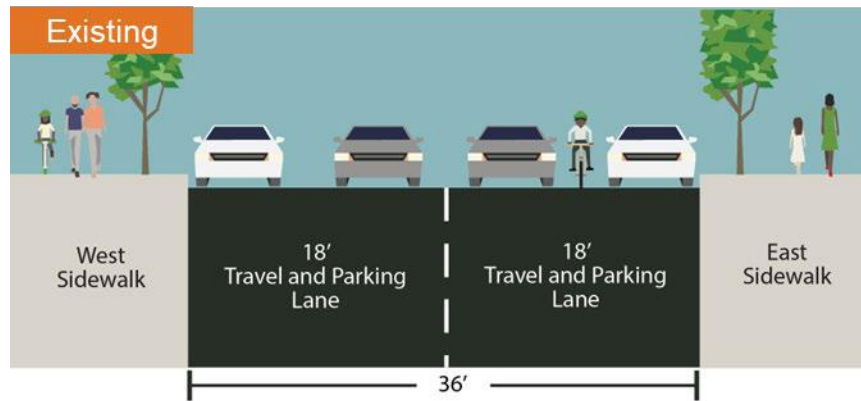


# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

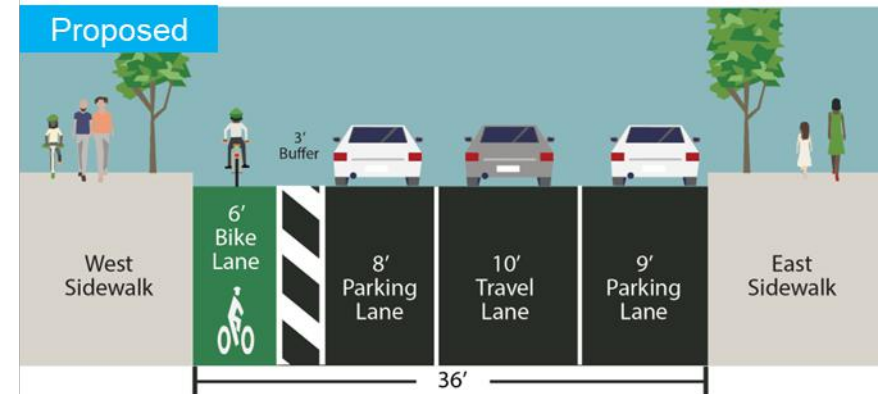
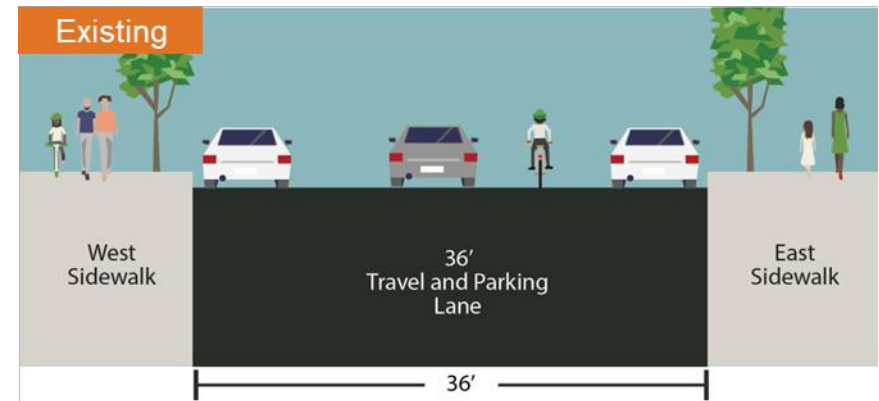
## 1. Proposal: Empire Blvd to Lefferts Ave (36' wide)



### Brooklyn Ave

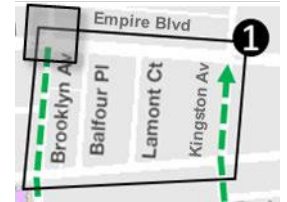


### Kingston Ave

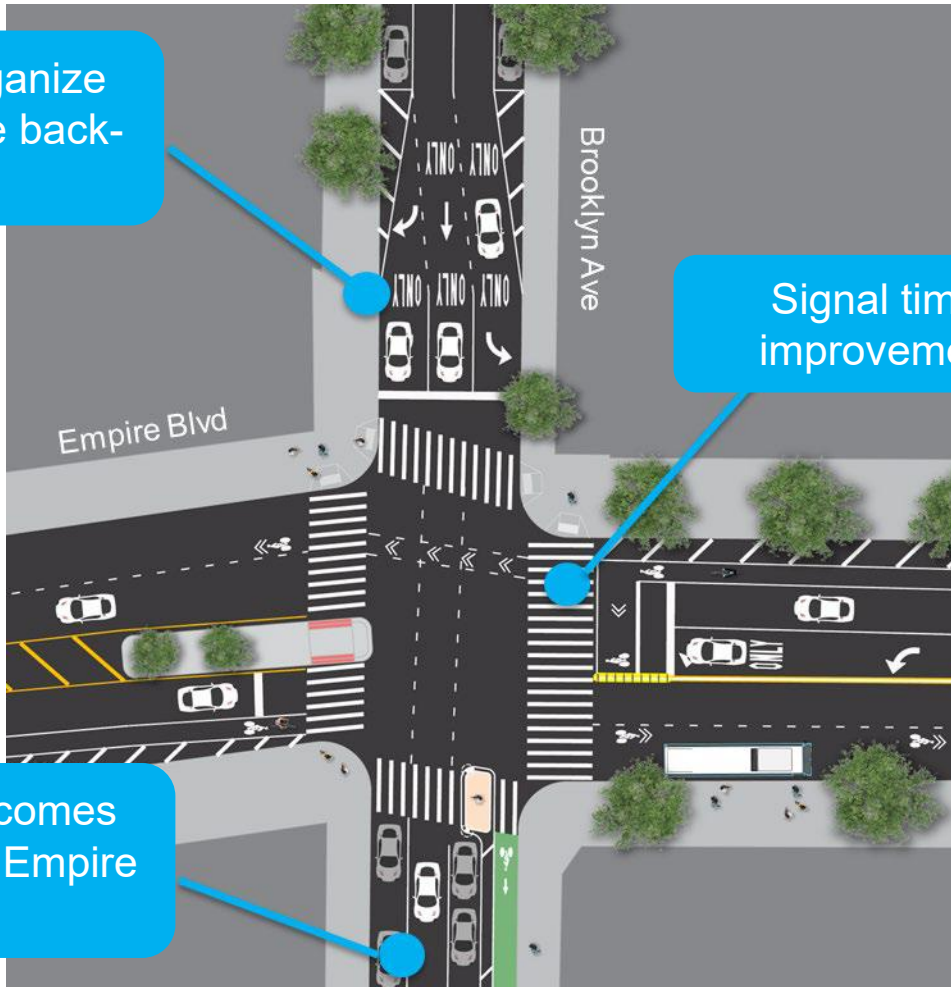


# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

## Proposal Detail: Brooklyn Ave and Empire Blvd



Turn bays to organize traffic and reduce back-pressure



Signal timing improvements

Brooklyn Ave becomes one lane south of Empire Blvd

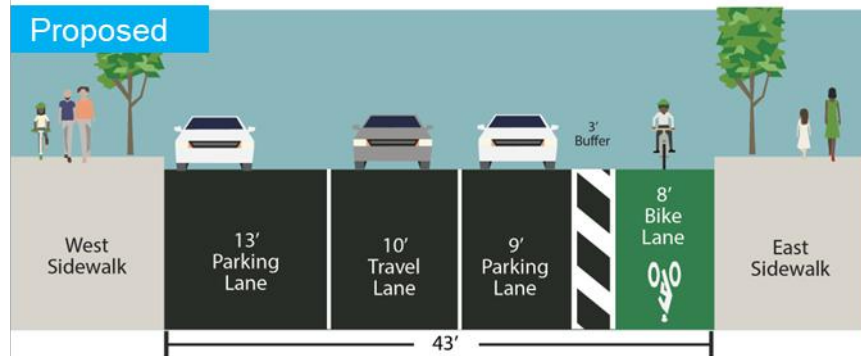
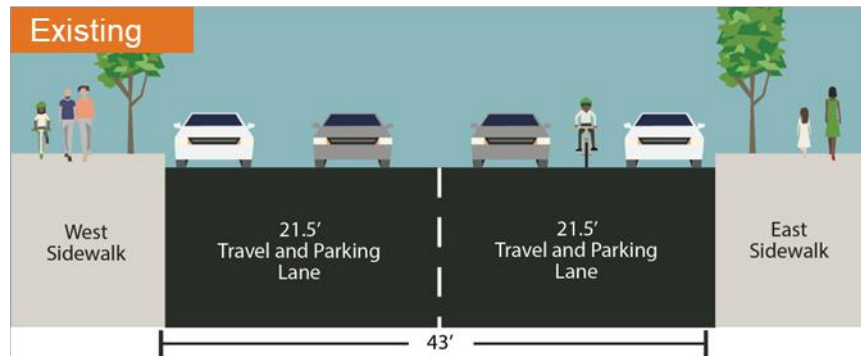


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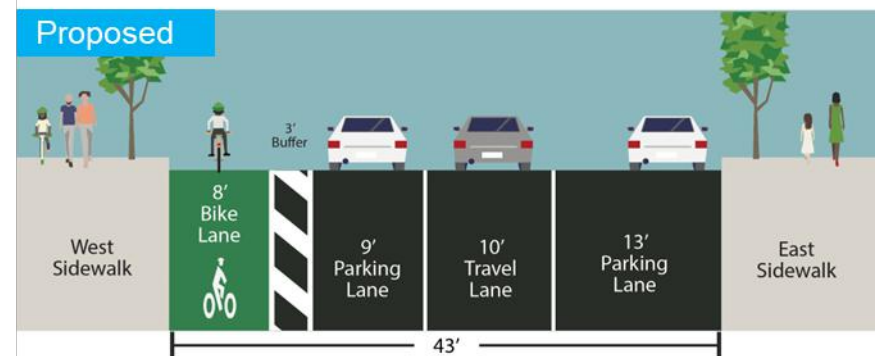
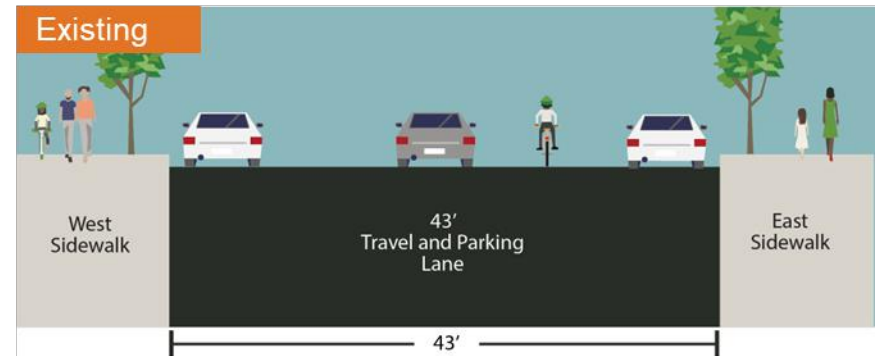
## 2. Proposal: Lefferts Ave to Rutland Rd (43' wide)



### Brooklyn Ave

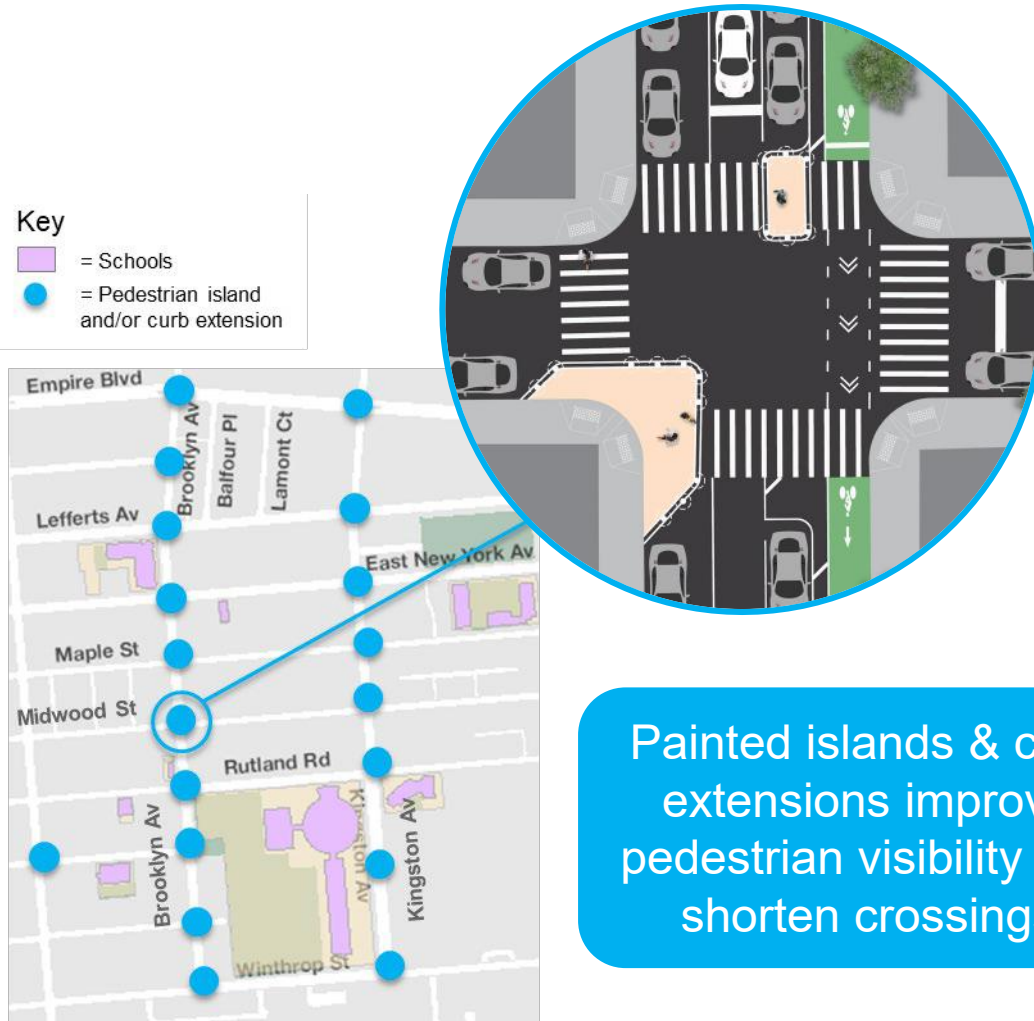


### Kingston Ave



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Proposal: Painted Pedestrian Islands & Curb Extensions



Painted islands & curb extensions improve pedestrian visibility and shorten crossings



# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

## Proposal: Painted Pedestrian Islands & Curb Extensions



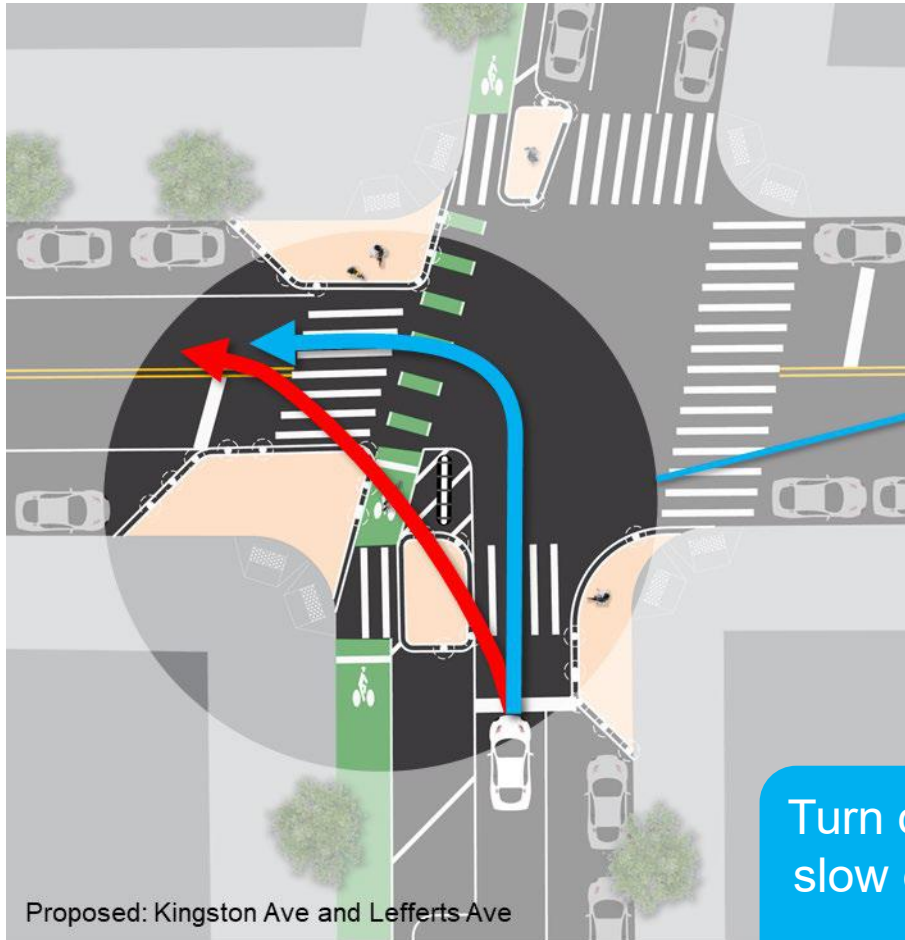
Can't see pedestrians or oncoming traffic



Clear visibility of the intersection

# Brooklyn Ave & Kingston Ave (Empire Blvd to Winthrop St)

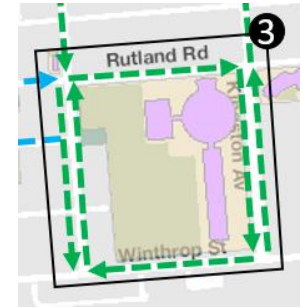
## Proposal: Turn Calming



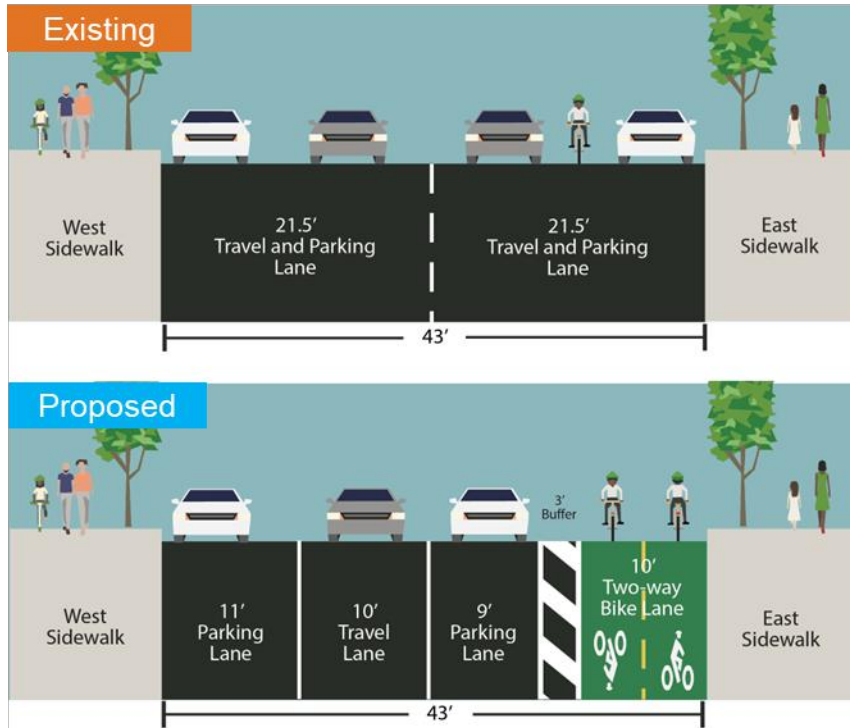
Turn calming treatments slow drivers and tighten turn radiuses

# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

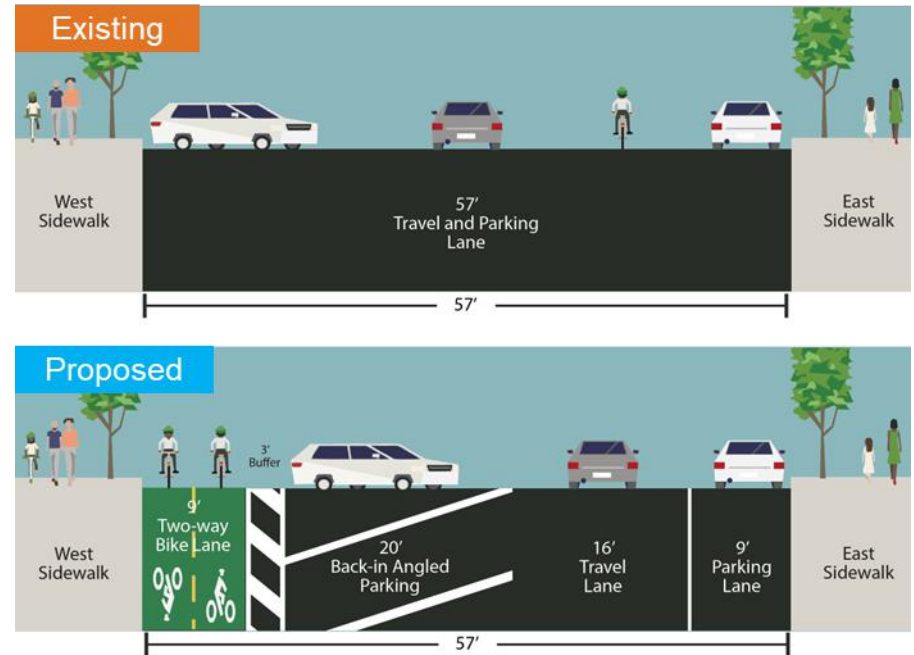
## 3. Proposal: Rutland Rd to Winthrop St Loop



### Brooklyn Ave



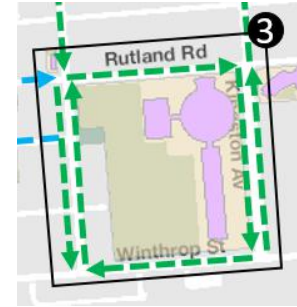
### Kingston Ave





# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

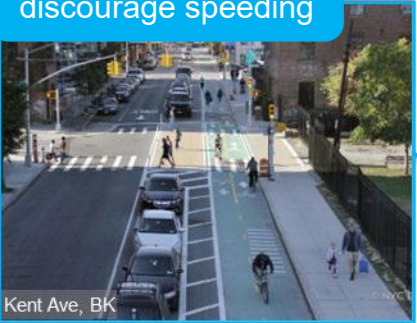
## 3. Proposal: Rutland Rd to Winthrop St Loop



Improve mid-block access to the park



Narrow the road to discourage speeding



Investigate speed bumps



Fully protected cycling loop



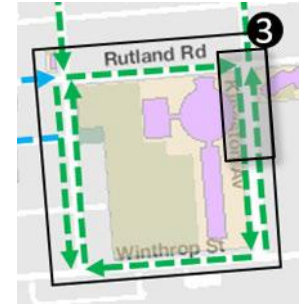
# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

## Proposal Detail: George W. Wingate Campus

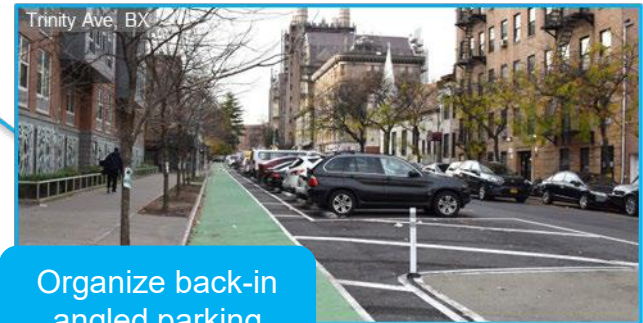
Shorten crossing distances



Expand pedestrian space in front of the school entrance



Improve pedestrian visibility



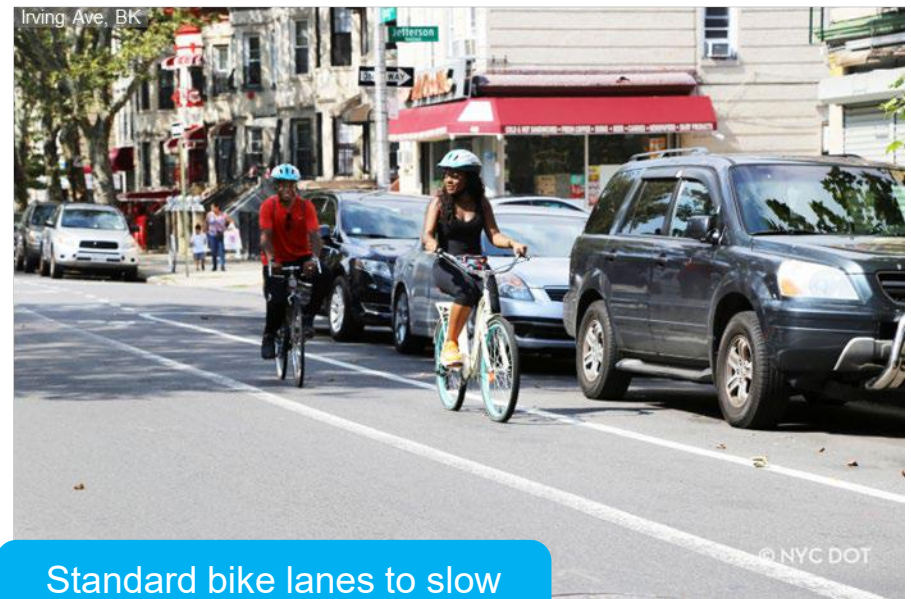
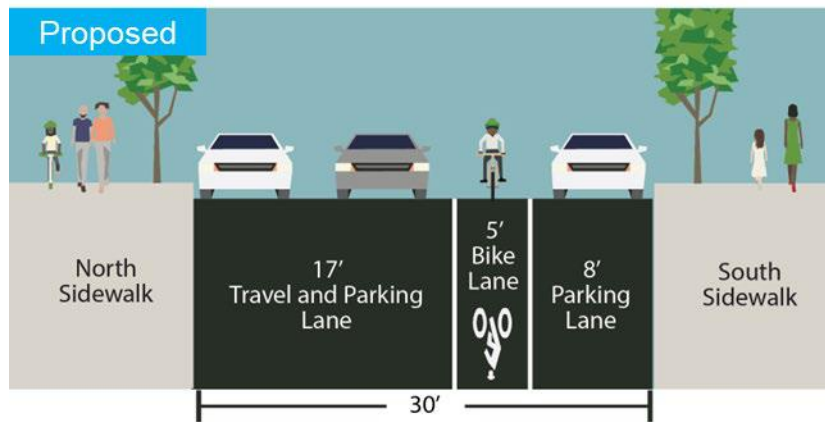
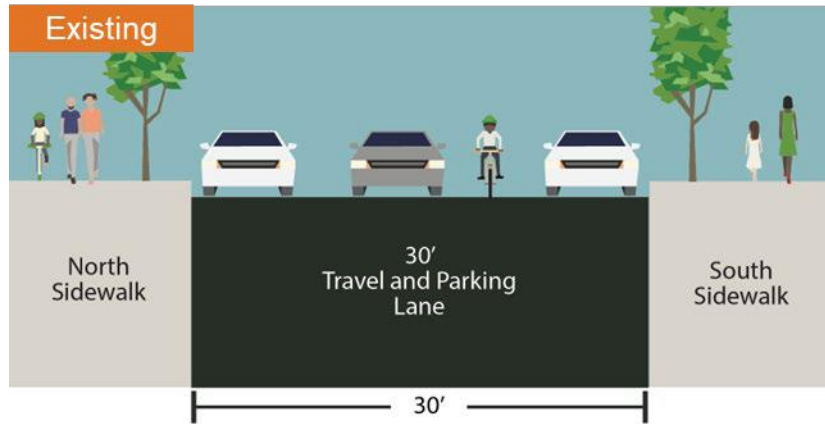
Organize back-in angled parking



# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

## 4. Proposal: Rutland Rd and Fenimore St, Flatbush Ave to Brooklyn Ave

### Rutland Rd & Fenimore St



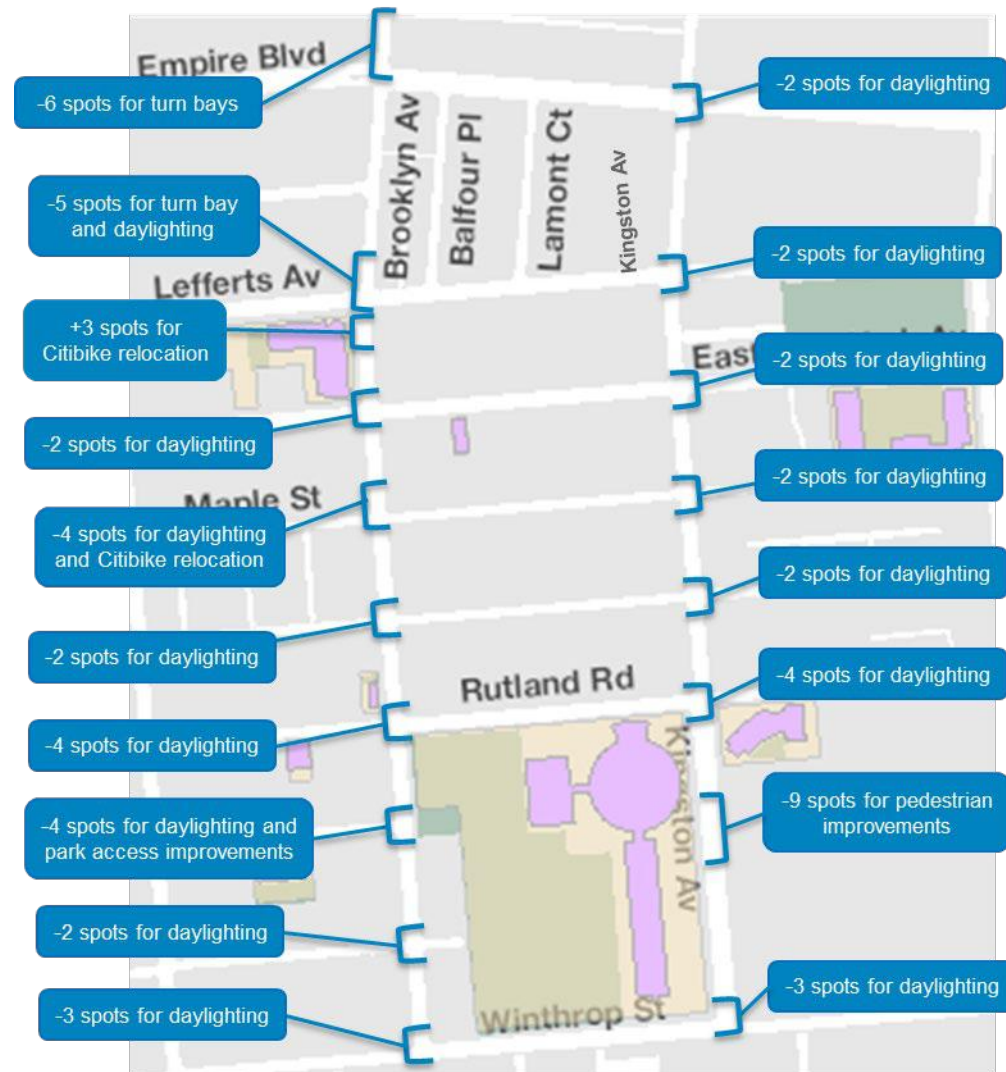
Standard bike lanes to slow speeds and organize traffic



# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

## Proposal: Parking Impacts

- ~54 parking spots repurposed
- Approximately 2-4 spots per block to improve visibility, safety, and shorten crossing distances at the intersection



# Summary

Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

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# Brooklyn Ave & Kingston Ave (Empire Blvd to Lefferts Ave)

## Summary

- 10+ schools within a block of Brooklyn Ave and Kingston Ave with a high volume of student pedestrians
- Existing speeding concerns
- To improve safety, we propose:
  - Protected bike lanes to narrow the roadway and slow speeds
  - Painted curb extensions and pedestrian islands to shorten crossing distances and improve visibility
  - Turn calming treatments to slow turning vehicles





# Thank You!

NYCDOT BK Borough  
Commissioner's Office

**(646) 892-1350**



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