

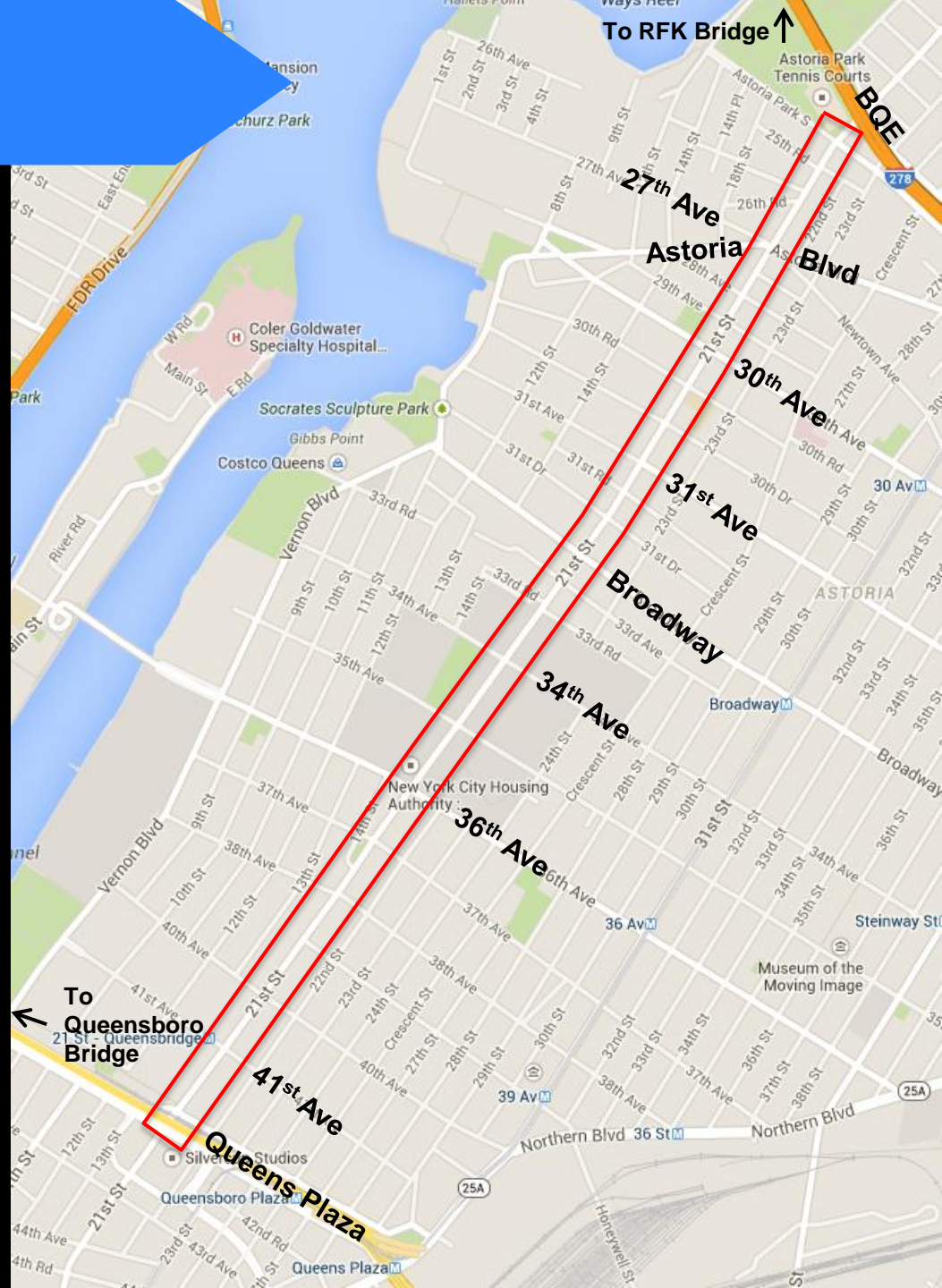
21st Street (Hoyt Ave S to Queens Plaza) Corridor Safety Improvements

2015



Project Location

- Two-mile corridor between Hoyt Ave S and Queens Plaza
- 60-foot wide road with two travel lanes in each direction
- Northern end of corridor within Astoria Senior Area
- Through truck route with large and heavy truck traffic
- Mix of industrial, commercial, institutional, and residential uses
- Q66, Q69 and Q100 bus routes serve the corridor



Existing Conditions

- Heavy traffic between the RFK and Queensboro bridges and truck traffic lead to high volumes throughout the day
- 60-foot street width creates long crossing distance for pedestrians
- Long sections without signals lead to speeding and jaywalking
- Empty parking spaces create wider moving lanes that contribute to speeding
- Left turns restricted during 7:00a-9:00a and 4:00p-7:00p



Safety Data: Project Need

- High severity crashes: 5 fatalities and 19 KSI (2009-2013)
- Designated High Crash Corridor in the top third of Queens corridors
- Increasing share of pedestrian injuries

21 St - Hoyt Ave S to Queens Plz N, QN

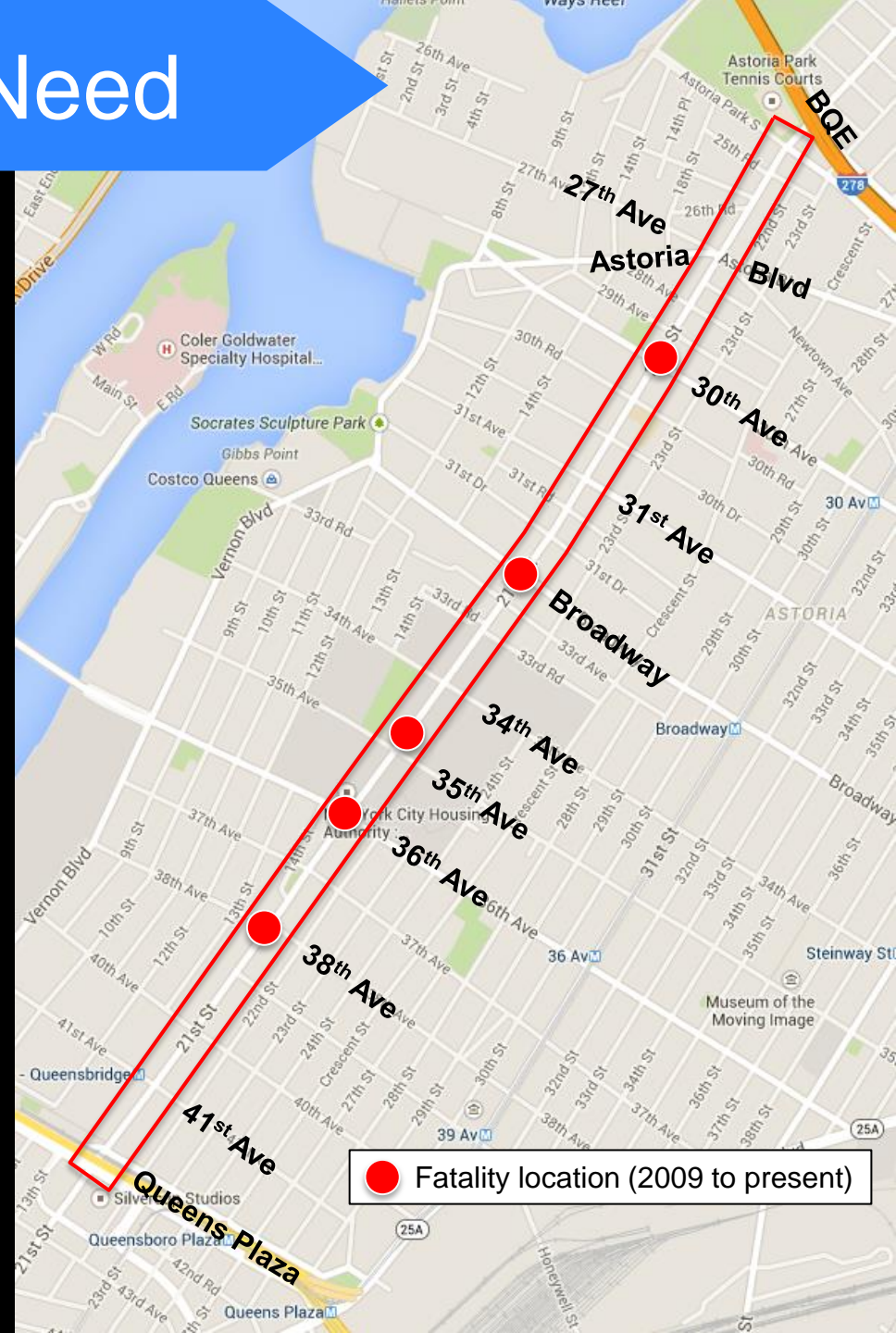
Injury Summary, 2009-2013 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	45	5	2	7
Bicyclist	11	1	1	2
Motor Vehicle Occupant	173	8	2	10
Total	229	14	5	19

Fatalities, 01/01/2009-1/12/2015: **5**

Source: Fatalities: NYCDOT
Injuries: NYS DOT
KSI: Persons Killed or Severely Injured

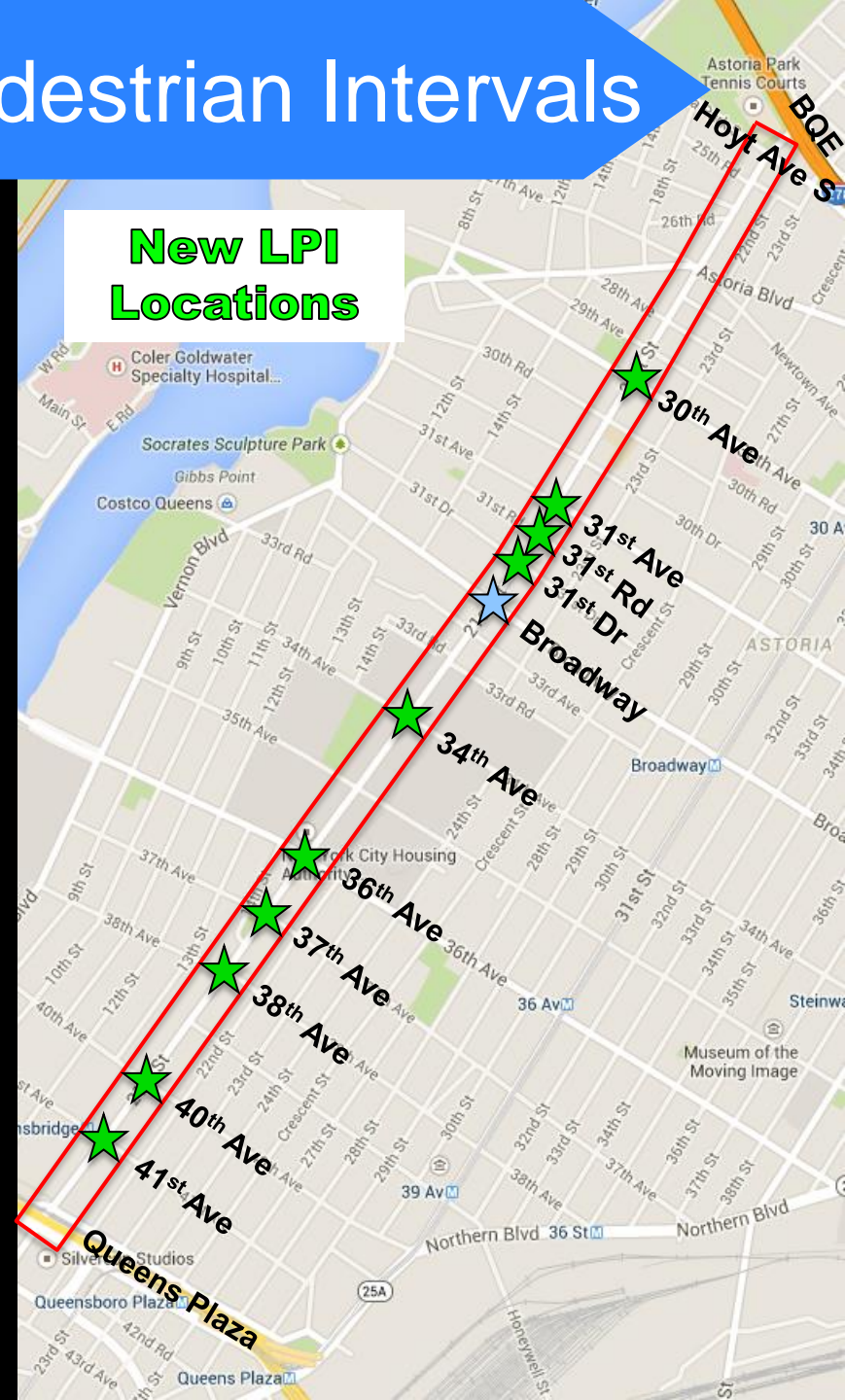
Pedestrian:	2
Bicyclist:	1
Motor Vehicle Occupant:	2



● Fatality location (2009 to present)

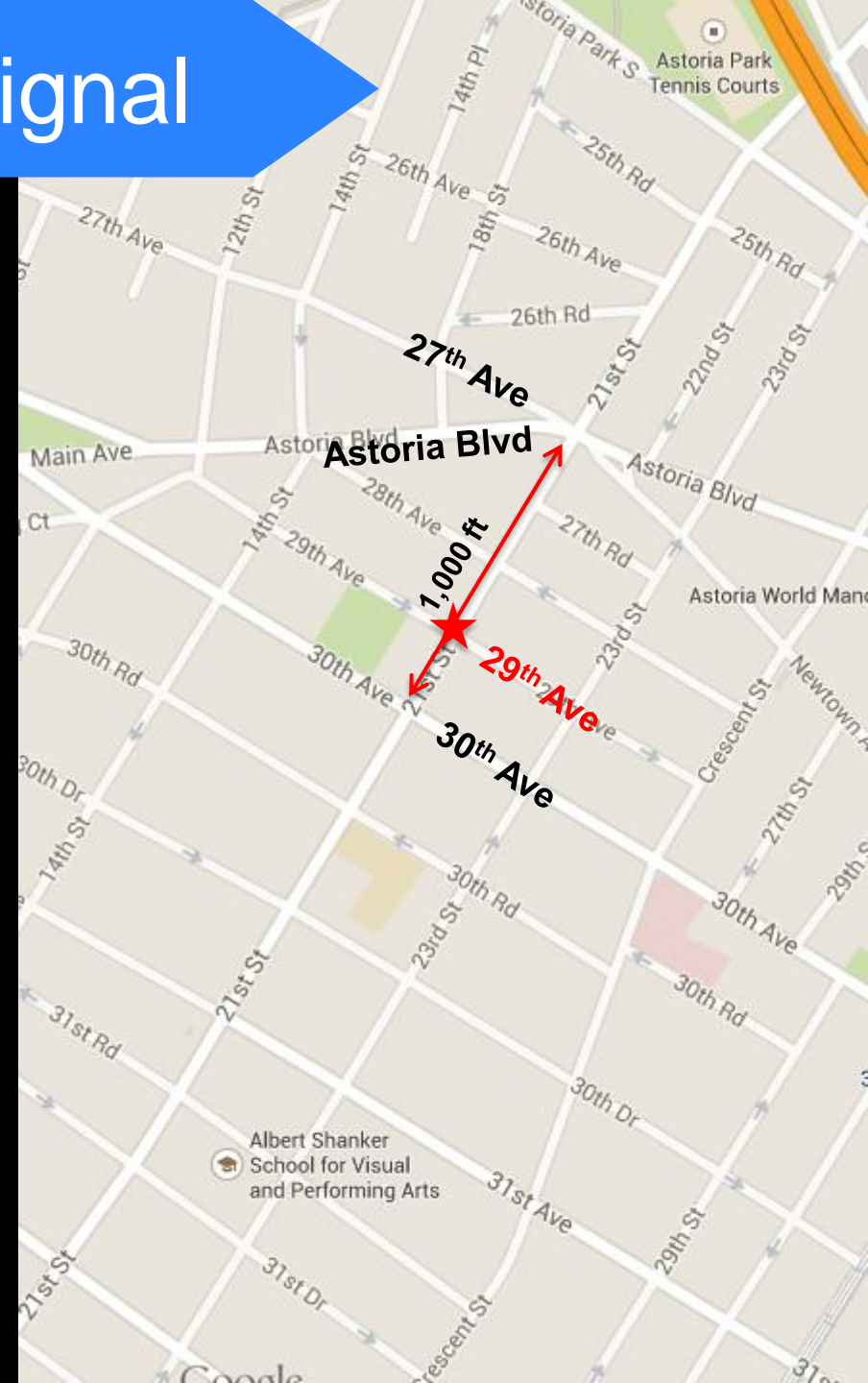
Implemented: Leading Pedestrian Intervals

- Leading pedestrian intervals (LPIs) provide **pedestrian-only walk time** before vehicles receive a green light
- **7-second LPIs installed (2/4/15)** to give pedestrians a head start crossing 21st St
- **Installed at 10 intersections** on 21st St:
 - 30th Ave
 - 31st Ave
 - 31st Rd
 - 31st Dr
 - 34th Ave
 - 36th Ave
 - 37th Ave
 - 38th Ave
 - 40th Ave
 - 41st Ave
- LPIs **reduce pedestrian-vehicle conflicts**
- Existing LPI at 21st St and Broadway



Planned: New Traffic Signal

- **New traffic signal** approved for the intersection of **21st St and 29th Ave**
- Adds **new pedestrian crossing** between 30th Ave and Astoria Blvd
 - Currently, 1,000 ft between pedestrian crossings at 30th Ave and Astoria Blvd
- Safer crossings for vehicles traveling on 29th Ave
- 28th Ave, 30th Rd, 33rd Ave, and 39th Ave:
 - Studied for new traffic signals, but studies determined that signals are not warranted at these locations at this time
 - Signal studies can be reopened as conditions change



Planned: Street Lighting

- Majority of fatalities occurred during non-daylight hours
- Planned: **Enhance lighting on 21st St to improve visibility at night**
- Upgrade all existing street lights to **brighter LED lights**
(Queens Plaza to Hoyt Ave S)



Proposal: Markings

- **Crosswalks refurbished and upgraded to all high-visibility markings during Summer 2014**
- **Proposal: install parking lane stripe along the corridor**
 - Better defines moving lanes
 - Calm traffics and helps reduce speeding



Proposal: Painted Curb Extensions

- **Install 12 painted curb extensions** along 21st St at the following 9 intersections:
 - 41st Ave (remove 2 parking spaces to accommodate turning vehicles)
 - 40th Ave
 - 35th Ave
 - Broadway
 - 31st Dr
 - 31st Rd
 - 30th Dr
 - 29th Ave
 - Hoyt Ave S
- Maintenance partner needed to keep painted areas clean

Example of painted curb extension:



Benefits of Proposal

- LPIs provide safer pedestrian crossings by reducing pedestrian-vehicle conflicts and giving pedestrians a head start before vehicles get the green light
- New traffic signal at 29th Ave allows for safer pedestrian and vehicle crossings
- Enhanced street lighting improves visibility for all road users
- Parking lane stripe defines moving lanes and helps calm traffic
- Painted curb extensions shorten crossing distances and slow turning vehicles





Questions?

Thank
You

Contact:

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