

Pedestrian Safety Improvements

Bowne Park & Francis Lewis Park

2016



Background

- Community District 7, Queens
- Neighborhood parks with many amenities
- Car oriented residential areas
- Q16 Bus between Flushing and Fort Totten stops along 29th Ave, northern border of Bowne Park; no transit near Francis Lewis Park
- Both parks lack marked pedestrian crossings



Existing Conditions

Bowne Park

- Wide-open corridor around park that encourages speeding due to No Standing 9pm-6am regulations implemented in 1988
- Almost 90% of vehicles speeding on 29th Ave and 32nd Ave according to NYCDOT study in April 2015

Arterial: 29th Ave EB From: 157th St To: 158th St

Boro:	Queens	Average Speed:	31.5 mph
Date:	04/21/15	15th Percentile:	27.0 mph
Day:	Tue.	50th Percentile:	32.0 mph
Weather:	Partly Cloudy	85th Percentile:	36.0 mph
Time:	10:20 AM		
Speed Limit:	25 mph	Above Speed Limit:	91.0 %
Sample Size:	100	Minimum Speed	18.0 mph
		Maximum Speed	44.0 mph
Type of Roadway:	Two-Way	Pace:	26.0 - 36.0 mph
Width of Road by Direction:	10'	In Pace:	78.0 %
Number of Moving Lanes:	1	Below Pace:	9.0 %
Number of Parking Lanes:	1	Above Pace:	13.0 %
Observer:	MG	Standard Deviation:	5.0 mph

Arterial: 32nd Ave EB From: 157th St To: 158th St

Boro:	Queens	Average Speed:	32.3 mph
Date:	04/21/15	15th Percentile:	27.0 mph
Day:	Tue.	50th Percentile:	32.0 mph
Weather:	Sunny	85th Percentile:	37.0 mph
Time:	11:05 AM		
Speed Limit:	25 mph	Above Speed Limit:	96.0 %
Sample Size:	100	Minimum Speed	19.0 mph
		Maximum Speed	47.0 mph
Type of Roadway:	Two-Way	Pace:	26.0 - 36.0 mph
Width of Road by Direction:	10'	In Pace:	79.0 %
Number of Moving Lanes:	1	Below Pace:	4.0 %
Number of Parking Lanes:	1	Above Pace:	17.0 %
Observer:	MG	Standard Deviation:	4.7 mph

Arterial: 29th Ave WB From: 158th St To: 157th St

Boro:	Queens	Average Speed:	29.8 mph
Date:	04/21/15	15th Percentile:	26.0 mph
Day:	Tue.	50th Percentile:	30.0 mph
Weather:	Partly Cloudy	85th Percentile:	34.0 mph
Time:	10:20 AM		
Speed Limit:	25 mph	Above Speed Limit:	86.0 %
Sample Size:	100	Minimum Speed	18.0 mph
		Maximum Speed	41.0 mph
Type of Roadway:	Two-Way	Pace:	26.0 - 36.0 mph
Width of Road by Direction:	10'	In Pace:	82.0 %
Number of Moving Lanes:	1	Below Pace:	14.0 %
Number of Parking Lanes:	1	Above Pace:	4.0 %
Observer:	MG	Standard Deviation:	4.5 mph

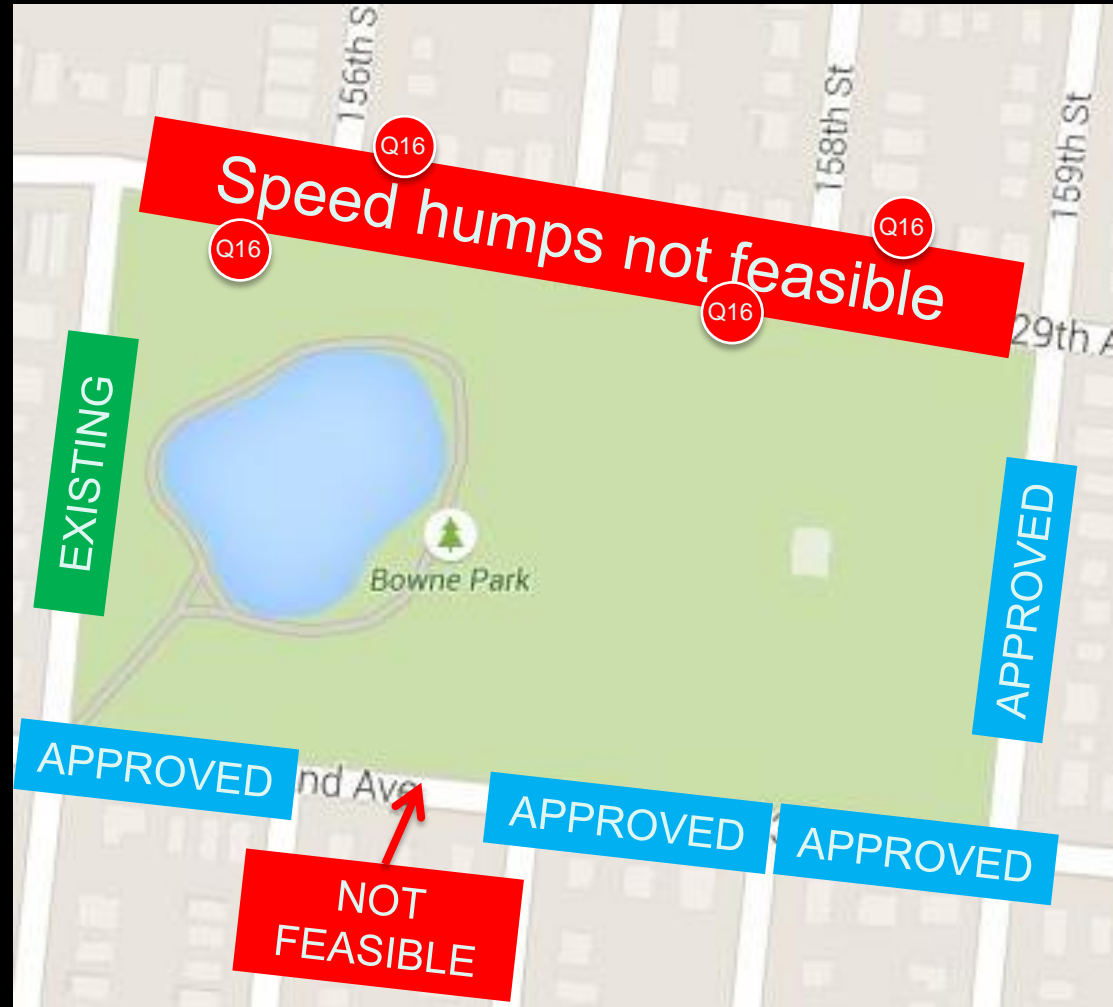
Arterial: 32nd Ave WB From: 158th St To: 157th St

Boro:	Queens	Average Speed:	29.7 mph
Date:	04/21/15	15th Percentile:	26.0 mph
Day:	Tue.	50th Percentile:	29.0 mph
Weather:	Sunny	85th Percentile:	34.0 mph
Time:	11:05 AM		
Speed Limit:	25 mph	Above Speed Limit:	86.0 %
Sample Size:	100	Minimum Speed	18.0 mph
		Maximum Speed	43.0 mph
Type of Roadway:	Two-Way	Pace:	24.0 - 34.0 mph
Width of Road by Direction:	10'	In Pace:	78.0 %
Number of Moving Lanes:	1	Below Pace:	9.0 %
Number of Parking Lanes:	1	Above Pace:	13.0 %
Observer:	MG	Standard Deviation:	4.6 mph

Speed Humps

Bowne Park

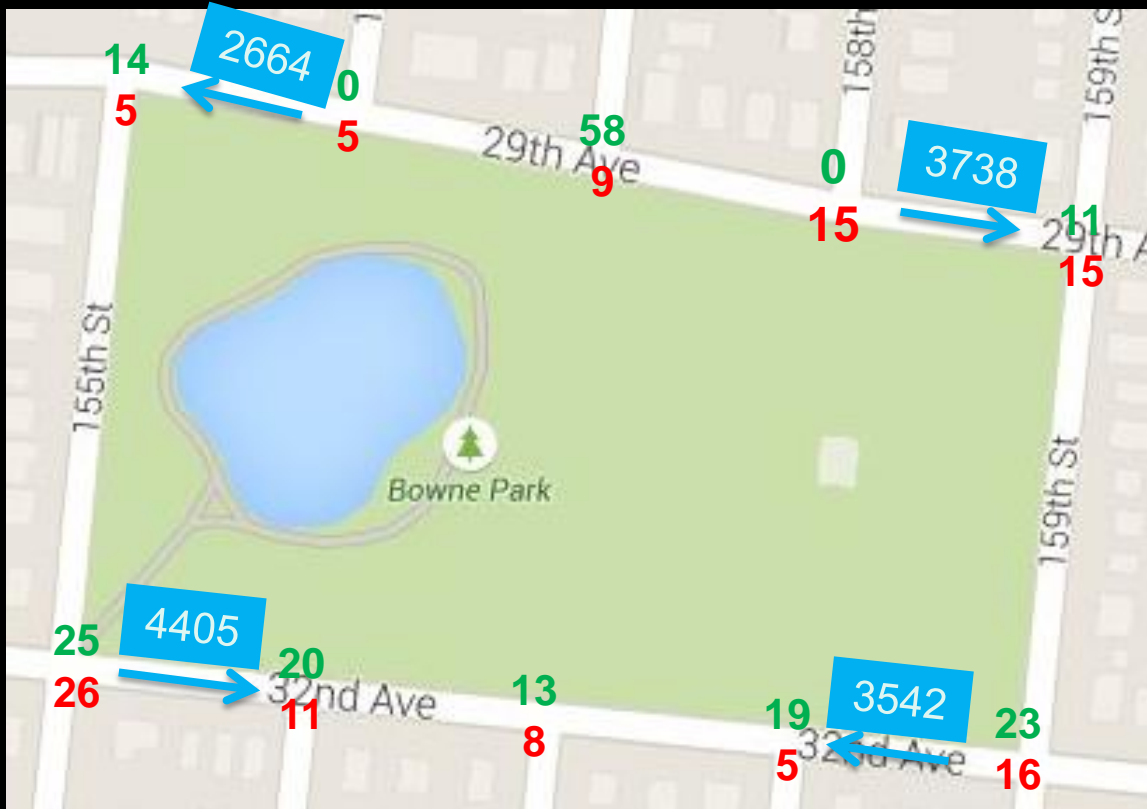
- Existing speed hump on 155th St
- Speed humps denied on 29th Ave in June 2010 due to Q16 bus route
- Speed hump denied on 32nd Ave between 156th St and 157th St due to driveways, utilities and short block length in July 2015
- **4 Speed Humps Approved in July 2015:**
 - **32nd Ave between 155th Ave & 156th St**
 - **32nd Ave between 157th & 158th St**
 - **32nd Ave between 158th St & 159th St**
 - **159th St between 29th Ave & 32nd Ave**



Existing Conditions

Bowne Park

- Low daily pedestrian and vehicle volumes



- No pedestrian or bicyclist injuries surrounding Bowne Park between 2010 and 2014

Injury Summary, 2010-2014 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	0	0	0	0
Bicyclist	0	0	0	0
Motor Vehicle Occupant	15	1	0	1
Total	15	1	0	1

Fatalities, 01/01/2010-11/23/2015 : None

Source: Fatalities: NYCDOT
Injuries: NYSDOT
KSI: Persons Killed or Severely Injured

WEEKDAY PEDESTRIAN PEAK
WEEKEND PEDESTRIAN PEAK
AVG MID WEEK DAILY VEHICLE VOLUME

Vehicle volumes are average mid week daily travel, collected 3/28/15 – 4/3/15; Pedestrian crossings observed on Saturday, April 25, 2015 from 12pm-1pm & Tuesday, April 28, 2015 from 5pm-6pm

Traffic Controls

Bowne Park

- Long distances between signalized crossings
- Currently studying intersections around the park for traffic signals



● Studied for signal, did not meet warrant, fall 2015

● Signal study to be completed summer 2016

Pedestrian Safety Improvements Plan

Bowne Park

Aim to slow vehicle traffic by utilizing the following techniques:

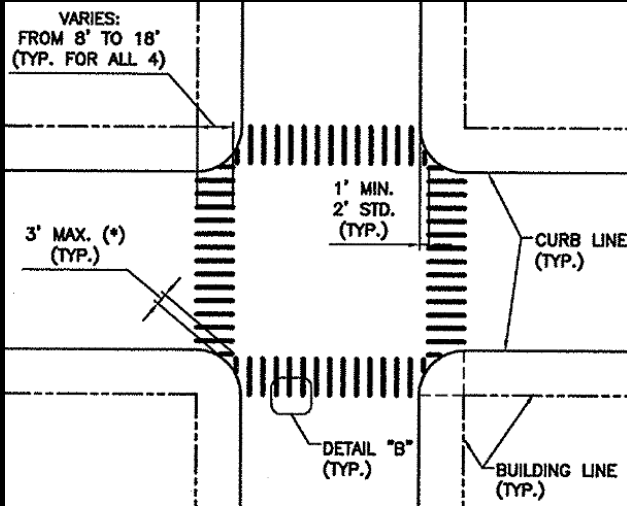
- 1. Remove No Standing parking regulations to allow parking at all times to calm traffic and narrow roadway**
- 2. Install speed humps on 32nd Ave and 159th St to slow vehicle speeds**
- 3. Push for additional traffic controls**

If additional controls are denied but speeding is reduced by traffic calming measures, we can install enhanced crossings on 29th and 32nd Aves.



Enhanced Crossing Treatment

High-Visibility Crosswalks



Pedestrian Warning Signs



W11-2



W16-7P

Americans with Disabilities Act (ADA) Compliant Pedestrian Ramps



Example Enhanced Crossings

Maspeth Ave, Brooklyn

- Adjacent to Cooper Park



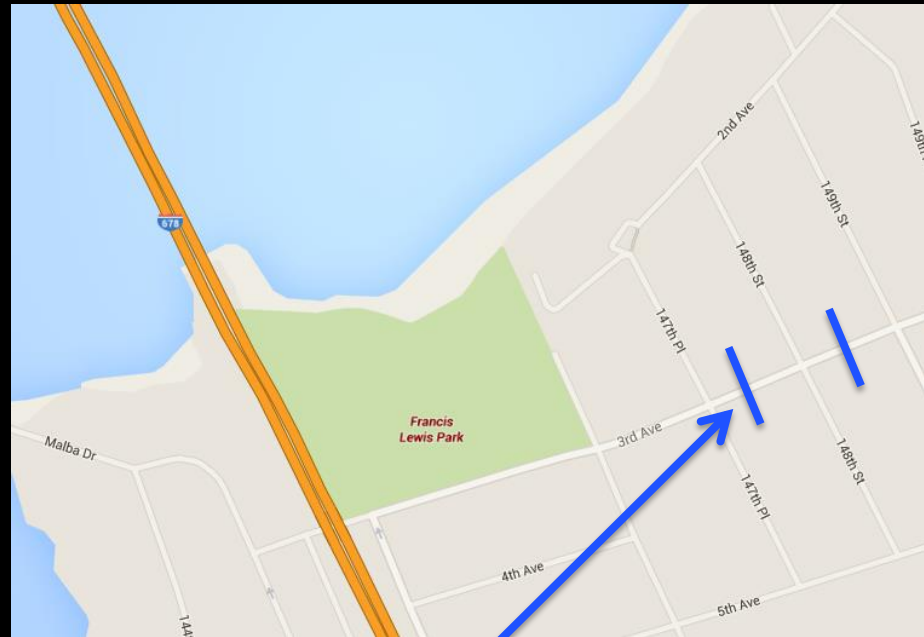
Existing Conditions

Francis Lewis Park

- Wide-open corridor around park that encourages speeding due to No Standing 9pm-6am regulations implemented in 1988
- Many vehicles are speeding according to July 2015 speed study
- Two speed humps on 3rd Ave:
 - Between 147th Pl and 148th St, installed 9/2/14
 - Between 148th St and 149th St, installed 10/31/13

Arterial: 3rd Avenue E		From: 147th St	To: Whitestone Expy
Boro:	Queens	Average Speed:	26.2 mph
Date:	07/08/15	15th Percentile:	20.0 mph
Day:	Wed.	50th Percentile:	26.5 mph
Weather:	Partly Sunny	85th Percentile:	33.2 mph
Time:	12:00 PM		
Speed Limit:	25 mph	Above Speed Limit:	56.0 %
Sample Size:	100	Minimum Speed	10.0 mph
		Maximum Speed	38.0 mph
Type of Roadway:	Two-way	Pace:	24.0 - 34.0 mph
Width of Road by Direction:	16'	In Pace:	63.0 %
Number of Moving Lanes:	1*	Below Pace:	32.0 %
Number of Parking Lanes:	1	Above Pace:	5.0 %
Observer:	R_JR	Standard Deviation:	6.2 mph

Arterial: 3rd Avenue W		From: 147th St	To: Whitestone Expy
Boro:	Queens	Average Speed:	24.7 mph
Date:	07/08/15	15th Percentile:	19.0 mph
Day:	Wed.	50th Percentile:	25.0 mph
Weather:	Partly Sunny	85th Percentile:	31.0 mph
Time:	12:00 PM		
Speed Limit:	25 mph	Above Speed Limit:	46.0 %
Sample Size:	100	Minimum Speed	10.0 mph
		Maximum Speed	37.0 mph
Type of Roadway:	Two-way	Pace:	21.0 - 31.0 mph
Width of Road by Direction:	16'	In Pace:	70.0 %
Number of Moving Lanes:	1*	Below Pace:	20.0 %
Number of Parking Lanes:	1	Above Pace:	10.0 %
Observer:	R_JR	Standard Deviation:	5.8 mph

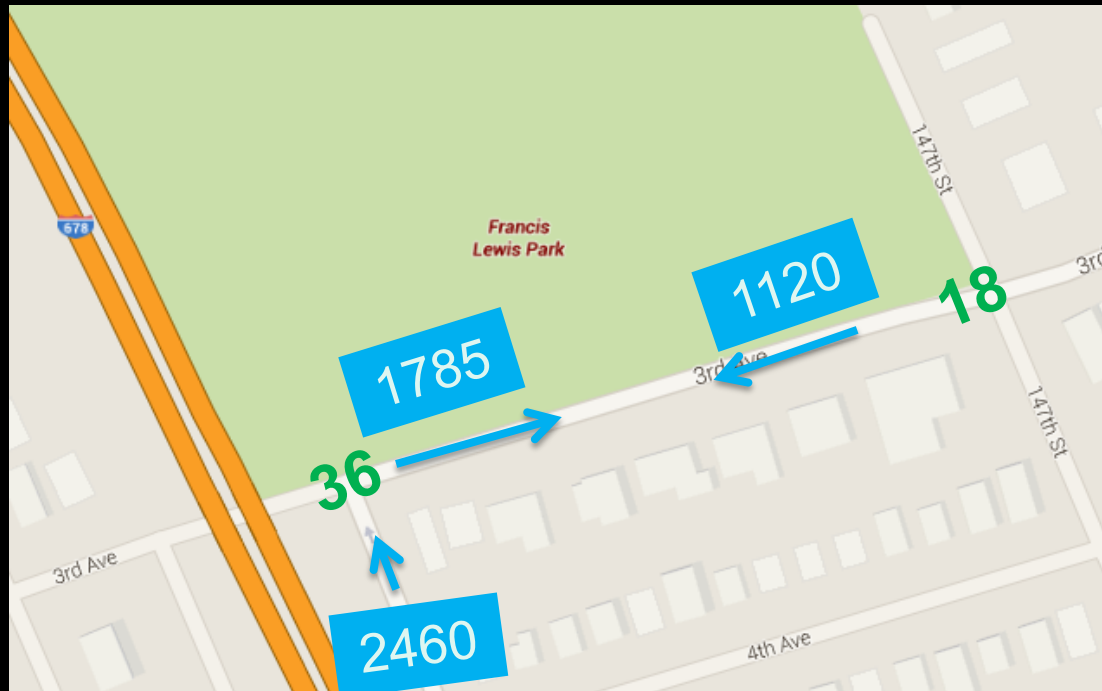


Existing speed humps

Existing Conditions

Francis Lewis Park

- Low daily pedestrian and vehicle volumes
- No pedestrian or bicyclist injuries along 3rd Ave adjacent to Francis Lewis Park 2010-2014



WEEKDAY PEDESTRIAN PEAK AVG MID WEEK DAILY VEHICLE VOLUME

Vehicle volumes are average mid week daily travel, collected 7/24/15 – 8/4/15;
Pedestrian crossings observed on Thursday, August 20, 2015 from 4:45pm – 5:45pm

3rd Ave - Parsons Blvd to 147th St, QN

Injury Summary, 2010-2014 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	0	0	0	0
Bicyclist	0	0	0	0
Motor Vehicle Occupant	5	1	0	1
Total	5	1	0	1

Fatalities, 01/01/2010-11/23/2015 : None

Source: Fatalities: NYCDOT
Injuries: NYSDOT
KSI: Persons Killed or Severely Injured

Pedestrian Safety Improvements Plan

Francis Lewis Park

Aim to slow vehicle traffic by utilizing the following techniques:

- 1. Remove No Standing parking regulations to allow parking at all times to calm traffic**
- 2. Paint 13 ft. parking lane stripes on north and south sides of 3rd Ave to visually narrow road**
- 3. Install enhanced crossings (marked crosswalks with pedestrian warning signs) at main park entrance**



Pedestrian Safety Improvements Plan

Francis Lewis Park

Concrete Curb Extension and
pedestrian ramps



New sidewalk, pedestrian ramps
and Enhanced Crossings

www.nyc.gov/dot

Questions?