2014

- **Fall:** CM Ferreras-Copeland requested safety enhancements to 111 St adjacent to Flushing Meadows-Corona Park

2015

- **Winter:** 111 St identified as Priority corridor in Vision Zero Action Plan
- **Spring:** Proposed project presented to Community Board 4
- **Spring-Fall:** Additional traffic analysis conducted during special events
- **Summer:** Two community workshops held
- **Summer:** Street surveys conducted
111 Street: Existing Conditions

Henry Hudson (Pedestrian) Entrance

111th St
111 Street: Existing Conditions

- **No Bike Facilities**
  - 70% of bicycle riders using sidewalk

- **Wide Street is Barrier to Park**
  - 94’ wide street is over designed

- **Wide Road Encourages Speeding**
  - 3 lanes for <400 vehicles per hour (peak)

- **High Parking Demand**
  - Residential neighborhood / park is destination
111 Street: Proposed Conditions

**Bike Facility**
Protected lanes are safer for everyone

**Shorter Crossing**
Refuges shorten crossings and allow safer crossings

**Traffic Calming**
Remove one travel lane in each direction

**New Parking Spaces (25)**
Parking on median to calm southbound traffic

1. **No Bike Facilities**
70% of bicycle riders using sidewalk

2. **Wide Street is Barrier to Park**
94' wide street is over designed

3. **Few Marked Crossings**
Only 4 crossings along 3500'

4. **Wide Road**
Encourages speeding

3 lane for <400 vehicles per hour (peak)
Traffic Analysis During Special Events

Traffic Volumes
Volumes collected at 4 locations, during 84 days (5 separate periods) April to November 2015
Volumes exceeded capacity of 1 lane on 5 occasions
- 1st and 2nd Queens International Night Market
- One out of 37 Mets Games
- Two days of Maker Faire

Time Lapse Camera
Images of traffic captured every 10 min at 3 locations for 40 days Aug 2-Sep 28, 2015
Congestion documented on two occasions, only at northern camera location
- Two days of Maker Faire

Field Observations
NYC DOT staff observed traffic conditions during select special events on 9 occasions during 2015
Congestion observed during 1 event
- Two days of Maker Faire

Special Events Covered:
- 37 Mets Games, including
  - World Series
  - Games during evening peak
  - Games overlapping with other major events
- 8 Queens International Night Markets
- US Open Tennis Championship
- Maker Faire
- Start of school at PS 28
- Many other parks events
Summary of Community Outreach

Public outreach conducted in 2015 regarding the redesign of 111 St:

COMMUNITY BOARD MEETINGS
• March 31: CB 4 Transportation Committee
• May 11: CB 3 Transportation Committee
• May 21: CB 3 Approved bike lanes and shared lanes on 108 St/31 Dr from Flushing Bay Promenade to Roosevelt Ave
• June 1: CB 4 Transportation Committee
• June 9: CB 4 Full Board

ADDITIONAL OUTREACH
• June 30 and July 29: Community workshop hosted by CM Ferreras-Copeland
• August 27 and 28: 111 St street user surveys
Community Workshops

111 St community workshops were held on June 30th and July 29th, 2015

• Approximately 85 attendees (total for both workshops)

RESULTS

• Strong support for:
  • shorter crossings, expanded medians
  • additional parking spaces
  • bicycle path

• Key concerns raised:
  • traffic congestion during special events
  • loading access to the Playground for All Children
  • parking availability for Rego Park Health Care employees
Bilingual survey of street users, August 2015

49th Ave-50th Ave (August 27), 54th Ave-55th Ave (August 28)
249 responses collected, including 194 Queens residents and 84 Corona residents

TRANSPORTATION MODE
- 88% of Corona residents walked or biked to 111 St (including those who came by transit)

DESTINATIONS
- Playgrounds were most popular destinations for Corona residents
- Museums/zoo were most popular destinations overall

111 ST SAFETY/ACCESS CONCERNS
- Speeding was most cited by Corona residents and overall
- Traffic congestion was least cited by Corona residents and overall

DESIVED IMPROVEMENTS on 111 St
- Corona residents/all surveyed street users overwhelmingly supported:
  - more crosswalks (92% / 91%),
  - a protected bike lane (92% / 87%),
  - additional parking spaces (76% / 79%)
Response to Community Concerns on Corona Ave

- Workshop participants expressed concern regarding:
  - On-street parking loss for Rego Park Health Care employees
  - Loss of loading for the Playground For All Children

Playground For All Children
*Designed to accommodate children with and without disabilities*

Rego Park Health Care
*Nursing home and rehabilitation center*
Response to Community Concerns on Corona Ave

- Convert angled parking on north side of median to parallel parking
- Parallel parking on north curb maintained
- Preserves 6 parking spaces on Corona Ave

Initial NYC DOT Proposal

- Remove parallel parking along north curb
- Net gain of 10 parking spaces across project area

Updated Proposal

- Updated net parking gain for the project is **25 spaces**
Response to Community Concerns on Corona Ave

- Proposed changes to the Corona Ave design:
  - Painted pedestrian space with shared bicycle markings for the length of the loading zone in front of the Playground For All Children
  - Wheelchair accessible loading to the Playground For All Children is maintained
Connect to the existing bicycle network at:

- Long Island Expy pedestrian bridge via a 2-way bicycle lane on Corona Av
- 34 Av bicycle lanes and Flushing Bay Promenade via shared lane markings on 111 St, 43 Av, and 108 St (already installed north of 34 Av)
PROJECT UPDATE

- Traffic impacts limited to minor increase in vehicular delay, only during the annual Maker Faire event
- Additional outreach found strong community support for benefits of proposed project
- Proposal revised in response to community concerns

PROJECT BENEFITS

- **Pedestrian Safety Improvements**
  - Crossing distance reduced by 50%
  - Median tip extensions provide refuge for crossing pedestrians
  - Parking regulations improve pedestrian visibility and access
  - Reduced sidewalk riding

- **Protected Bike Lane**

- **Increased Parking** - net gain of 25 spaces

- **Maintaining 2 southbound travel lanes** allows drivers pulling into driveways and turning vehicles to move out of the way of through traffic

*Improved access to Flushing Meadows-Corona Park for all*
Questions?

Thank You
111th Street Transportation Improvements
Appendix
Crash Statistics

Vision Zero Priority Corridor (2009-2013 data):
- Averaged 6 traffic-related serious injuries per mile ranking in the worst third of Queens corridors
- 17 pedestrian crashes, 22 bicycle crashes, 93 motor vehicle crashes between 43 Ave and Corona Ave
Traffic Volumes

Traffic volume data was collected at 4 locations on 111 St to determine when the traffic volume exceeded what can typically fit in one travel lane per direction.

Data collection dates:
- April 22\textsuperscript{nd} to May 6\textsuperscript{th}, 2015
- July 10\textsuperscript{th} to August 21\textsuperscript{st}, 2015
- August 31\textsuperscript{st} to September 13\textsuperscript{th}, 2015
- September 21\textsuperscript{st} to September 27\textsuperscript{th}, 2015
- October 30\textsuperscript{th} to November 1\textsuperscript{st}, 2015

Special events covered:
- 37 Mets games
- 8 Queens International Night Markets
- US Open Tennis Championship
- Maker Faire
- Many other parks events
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
4/21/2015 to 5/7/2015

Acceptable volume for 1 travel lane

Northbound
Southbound
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
4/21/2015 to 5/7/2015

- Acceptable volume for 1 travel lane

- Queens Night Markets
- Mets games
- Queens/Manhattan Walk Now For Autism Speaks
- Mets games
- Mets games
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
7/10/2015 to 8/21/2015

Acceptable volume for 1 travel lane
Traffic Volumes Results – 49 Ave to 50 Ave

**Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)**

*7/10/2015 to 8/21/2015*

- Acceptable volume for 1 travel lane
- Mets games
- Queens Night Markets
- HK Dragon Boat Festival
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
8/31/2015 to 9/13/2015

Acceptable volume for 1 travel lane

Northbound
Southbound
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
8/31/2015 to 9/13/2015

Mets games

US Open Tennis Championship

Acceptable volume for 1 travel lane

Northbound
Southbound
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
9/21/2015 to 9/27/2015

Acceptable volume for 1 travel lane

Northbound  Southbound

9/21/2015  300  250
9/22/2015  400  350
9/23/2015  500  450
9/24/2015  600  550
9/25/2015  700  600
9/26/2015  973  915
9/27/2015  800  700
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
9/21/2015 to 9/27/2015

Acceptable volume for 1 travel lane

Mets games

Maker Faire

Northbound
Southbound
Traffic Volumes Results – 49 Ave to 50 Ave

Highest Observed Hourly Vehicle Volume on 111 St (49 Ave to 50 Ave)
10/30/2015 to 11/1/2015

Acceptable volume for 1 travel lane

World Series home games

Northeastbound
Southbound
Time Lapse Photography

Captured images of traffic on 111 St every 10 min to assess congestion

Camera Locations: 46th Ave, 55th Ave, Corona Ave

Time Period: Aug 2-Sept 28, 2015

15 Mets games
US Open Tennis Championship
Maker Faire
Time Lapse Photography Results

Congestion observed only 2 times in 40 days, during Maker Faire:

- September 26, 10am—8pm
- September 27, 10am—6pm

This congestion was only captured on the cameras installed at 111 St and 46 Ave and was not visible at the other time lapse camera locations, indicating that the congestion is concentrated at the northern end of the study area.
NYC DOT staff spent time on 111 St observing traffic conditions during select special events in 2015:

- Monday, April 13th: Mets opening home game and weekday evening peak period
- Friday, April 17th: Mets game and weekday evening peak period
- Saturday, May 2nd: Mets game and Queens International Night Market
- Thursday, May 7th: Non-game day peak hours and start of school at PS28
- Sunday, May 10th: Cinco de Mayo celebration
- Saturday, June 20th: Louis Armstrong Wonderful World Festival
- Tuesday, September 1st: US Open Tennis Tournament and Mets game
- Thursday, September 3rd: US Open Tennis Tournament
- Saturday, September 26th: Maker Faire
- Sunday, September 27th: Maker Faire
Field Observations Results

Example: September 3\textsuperscript{rd}, 2015, day 4 of US Open Tennis Championship

- While the entrance to the US Open was very crowded, 111 St was quiet.

111 St facing south at 46 Ave, 11:20 a.m.

US Open Tennis Championship Entrance, 11:43 a.m.
Field Observations Results

Example: Mets games

- No congestion witnessed within study area (111 St, 46 Ave to Corona Ave)

111 St facing north at 47 Ave, April 17, 2015 4:56 p.m.
Friday game day and evening peak period

111 St facing south at 46 Ave, September 1, 2015 6:39 p.m.
US Open evening round began at 7 p.m.
Mets vs. Phillies game began at 7:10 p.m.
Summary of Results of Study of Traffic During Special Events

• The proposed design for 111 St would have a minor negative effect on northbound traffic during the annual 2-day Maker Faire

• For the remaining 99.4% of the year, no additional congestion would occur as a result of the proposed project, and street users would enjoy many benefits:
  • Median tip extensions
  • 25 additional on-street parking spaces
  • Parking-protected 2-way bicycle path

• Outside of the study area, NYC DOT is planning to make other improvements to ease congestion:
  • Signal timing changes to 111 St and 43 Ave
  • Improve signage on area highways to direct Citifield-bound traffic directly to the parking lot on Roosevelt Ave and away from local streets in Corona
Why Are Vehicle Volumes So Low on 111 Street?

1-way north of Roosevelt Ave

Variation in street widths

Multiple alternative routes with better connectivity

Sautell Ave and Corona Ave both terminate at LIE service road
Street Survey: Home Zip Code

- Of the 249 responses received, 194 were made by Queens residents and 84 were made by Corona residents (zip code 11368)
The most popular destination for surveyed streets users was museums and/or the Queens Zoo.
The most popular destination for surveyed Corona residents (zip code 11368) was playgrounds.
Street Survey: Travel Mode

- A nearly equal number of surveyed streets users came to 111 St by car and on foot.
Surveyed Corona residents (zip code 11368) overwhelmingly came to 111 St on foot.
Of the safety and access concerns brought up, surveyed street users cited speeding the most frequently and traffic congestion the least frequently.
Surveyed Corona residents (zip code 11368) also cited speeding the most and traffic congestion the least of the safety and access concerns listed.
Surveyed street users overwhelmingly expressed interest in seeing more crosswalks.
Surveyed Corona residents (zip code 11368) also overwhelmingly expressed interest in seeing more crosswalks and a bicycle path.
Future Capital Improvements

- Proposed project would be done in-house using temporary materials

- CM Ferreras-Copeland has allocated $2.7 million in capital funds for safety improvements along 111 St including the rebuilding of the existing medians