Project Area

- Marcy Ave
- Brooklyn/Queens Expwy
- Keap St
- Williamsburg Bridge
- Rodney St
- S. 4th St
- Borinquen Pl
Background

- Council Member Reyna requested a study of streetscape and safety around Borinquen
- Borinquen is a high crash corridor
- Two recent pedestrian fatalities near Keap St and Borinquen
- Bicyclist recently fatally struck on Borinquen near Rodney
- Petition from over 1500 locals requesting safety improvements

- Several parks/playgrounds around BQE cut at Marcy and Rodney
- PS 319 and PS 19 adjacent to Borinquen
- Planned Grand Street BID pedestrian safety project ends at Union Avenue
- Neighborhood seeing influx of residential and commercial development (i.e. Triangle Court Building)
Injury Data

- **Motor Vehicle Occupant Injuries 2006-2010**
  - Marcy Ave: 4
  - Rodney St: 1
  - S. 3rd St: 3

- **Bicyclist Injuries/Fatalities 2006-2010**
  - S. 2nd St: 2

- **Pedestrian Injuries 2006-2010**
  - Borinquen Pl: 2

- **Pedestrian Fatalities 2012**
  - S. 1st St: 1
  - Hooper St: 1

Sources: Injuries, NYS Dept. of Transportation – Fatalities, NYC Dept. of Transportation
Existing Conditions

Borinquen Pl and Grand St

Long crossing distance
130 foot crosswalk

Street angles encourages high speed turning across crosswalk
Existing Conditions

No crosswalk

Two pedestrian fatalities in 2012

Borinquen Pl and Keap St

Pedestrian demand for crossing
Existing Conditions

Wide moving lane

Borinquen Pl and Rodney St / S.2^nd St

Pedestrians travelling to/from schools and parks
Existing Conditions

Unmarked wide intersection

Unpredictable vehicle movements through crosswalk
Existing Conditions

S. 4th Street between Marcy and Rodney

Wide street encourages speeding
Rapid Response Toolkit

- Pavement markings
- Signal modifications
- New signage
- Painted and/or textured surfaces
- Flexible delineators
Rapid Response Toolkit

Painted Sidewalk Extension Examples

Schermerhorn St., Brooklyn

Union Avenue & N.12th Street
Rapid Response Tool

Concrete Median Examples

Southern Blvd, Bronx

Hylan Blvd, Staten Island
Proposed
Proposed

- New markings to clarify driver movement
- Painted neckdown to slow turns and shorten crosswalk at Borinquen Pl and Grand St
- New markings to clarify driver movement at Grand St
Proposed

New crosswalk and safety island

Painted neckdowns to slow turns and shorten crosswalk

Borinquen Pl and Keap St

Painted neckdown/closed slip lane
Pedestrian conflict created if left turn allowed immediately after right turn.

S.1\textsuperscript{st} reversed for one block between Rodney and Keap removes pedestrian conflict.
Proposed

- New markings to calm corridor
- New left turn lane
- Painted neckdown to slow turn and shorten crosswalk
- Safety median
- New right turn lane
- Borinquen Pl and Rodney St / S. 2nd St
- New crosswalk
Proposed Concrete extension to shorten crosswalk

Concrete neckdown to straighten and shorten crosswalk

New lane markings to clarify vehicular movements
Proposed

S. 4th Street Between Marcy and Rodney

15’ painted sidewalk extension

S. 4th Street

10’ Parking Lane  12’ Moving Lane  8’ Parking Lane  15’ Pedestrian Area
Benefits

- Improved traffic flow and circulation
- Increased pedestrian safety and comfort
- Enhanced walking environment
- Landscaping and new neighborhood amenities
Summary

- Construct two landscaped pedestrian safety islands on Borinquen Pl at Rodney St and at Keap St
- Build neckdowns on Borinquen Pl at S.3rd St and at Marcy Ave
- Install new painted neckdowns on Borinquen Pl at Grand St, S. 1st St, and S. 2nd St
- Install painted sidewalk extension on S.4th St between Rodney St and Marcy Ave
- Add new crosswalks across Borinquen Pl at S. 2nd St south leg and at Keap St south leg
- Close low volume slip lane at Keap St with painted neckdown
- Reverse direction of S. 1st Street between Rodney and Keap to improve intersection operations at Borinquen and Keap