LOCATION

- Entrance to Prospect Expressway on north side of intersection
- Prospect Expressway and Church Ave are both through truck routes
- Ocean Parkway bicycle greenway on west median
- Substantial bus traffic
  - BM3, BM4 & B103 turn onto Expressway
BACKGROUND

- Pedestrian fatally struck, February 2018, in north crosswalk
- Pedestrian fatalities in 2013 and 2008 at similar location
- Severe/moderate injury crashes resulting from pedestrian-vehicle conflicts in north crosswalk
- Town Hall meeting in April demonstrated strong community support for pedestrian improvements
2010 PROJECT

• Added pedestrian safety island in the south crosswalk
• Upgraded pedestrian and bicycle markings at intersection
• Added pedestrian countdown signals
2013/2014 PROJECT

- Constructed pedestrian safety median in north crosswalk
- Added 10 second LPI for pedestrians crossing Ocean Pkwy/Prospect Expwy
- Added flashing yellow arrow for right turns from westbound Church Ave to northbound Prospect Expwy
- 35% reduction in injuries since project was completed in 2014
EXISTING CONDITIONS & ISSUES

Pedestrian–Vehicle Conflicts
EXISTING CONDITIONS & ISSUES

Turning Vehicle Conflicts
EXISTING CONDITIONS & ISSUES

Long Crossing Distances / Not Enough Time to Cross
EXISTING CONDITIONS & ISSUES

Heavy Vehicles

Through Truck Route
15-20% heavy vehicles in intersection
SAFETY PROJECT GOALS

1. Simplify intersection, reduce conflicts for vehicles and pedestrians
2. Calm turns to northbound Prospect Expressway
3. Reduce the impacts of heavy vehicles
4. Shorten crossing distances / allow pedestrians more time to cross
5. Maximize safety benefits / minimize negative impacts on surrounding streets, community
6. Preserve and enhance sense of place, minimize highway-like design features
SHORT TERM IMPROVEMENTS

Since the April 2018 Town Hall Meeting:

- Updated and added additional on-street signage to discourage speeding
- Refurbished and upgraded intersection markings
- Reviewed signage on Prospect Expressway with NYSDOT
- Multiple on-site meetings with NYCDOT / NYSDOT planners and engineers
PROPOSAL

Markings Improvements

Painted Curb Extensions

Expand Concrete Medians

Signal Timing Changes
PROPOSAL – MARKINGS IMPROVEMENTS

Restrict westbound from Church Ave to SB Ocean Pkwy
(Peak hour 32 vehicles)

Add qwick kurb to prevent double rights to NB Prospect Expressway

Realign westbound moving lanes on Church Ave
PROPOSAL – CONCRETE MEDIAN EXTENSIONS

- Expand Prospect Expwy Service Rd Medians
- Improve bicycle ramps
- Safety bollards protect pedestrians and cyclists
PROPOSAL – CONCRETE MEDIAN EXTENSIONS

NW median expands from 10’ to 17’

NE median expands from 30’ to 37’
PROPOSAL – PAINTED CURB EXTENSION

Add painted curb extension to slow turns off of SB Ocean Pkwy Service Rd
PROPOSAL – E 7th ST / CHURCH AVE

Replace existing sub-standard island with painted curb extension to improve lane alignment, reduce conflicts for buses.

*investigating additional bus improvements, markings

Shortens crossing distance by additional 3', compared with existing
PROPOSAL – SIGNAL TIMING & SIGNAGE

Extend existing exclusive pedestrian phase across Ocean Pkwy by 5 seconds

Upgrade existing highway signage on SB Prospect Expressway
BENEFITS OF SAFETY PROPOSAL

Markings Improvements & Lane Realignment

- Simplifies intersection by eliminating turning conflicts
- Prevents double turns from Church Ave to northbound Prospect Expwy
- Allows for expansion of concrete medians
- Clarifies moving lanes and provides more space for buses

Expanding Concrete Medians

- Shortens crossing distances for pedestrians, cyclists
- Provides more space to wait
- Encourages slower turns onto Prospect Expwy
- Improves bicycle facilities and reduces conflicts between pedestrians and cyclists
BENEFITS OF SAFETY PROPOSAL

**Painted Curb Extensions**
- Shortens crossing distances
- Encourages slower, safer turns, yielding to pedestrians
- Minimal parking loss, ~4 spaces

**Signal Timing & Signage**
- Increases protected crossing time for pedestrians and cyclists
- Maximizes benefits for pedestrians while preserving safety on local streets
- Discourages speeding
TIMELINE / NEXT STEPS

Fall / Winter 2018

- Community outreach, feedback

Spring / Summer 2019

- Begin construction on safety improvements
THANK YOU!

Questions?