DOT’s Recent Improvements

2008
- Bowery safety island
- Chrystie St safety islands
- Forsyth St painted sidewalk
- Clinton St bicycle facility
- LPI added at Essex

2009
- Allen St Mall expansions
- Delancey St / W’burg Bridge connection

2010
- W’burg Bridge multi-use path reconfig
- Rivington, Suffolk, Stanton bicycle lanes

2011
- Countdown signals added to all 19 Crosswalks
- Additional ped crossing time given at Norfolk, Ludlow, Orchard and Forsyth
Safety Data

Total Fatalities 2006-2012
Total (Motor vehicle occupant, bicycle + pedestrian) Injuries 2006-2010

Sources: Injuries, NYS Dept. of Transportation – Fatalities, NYC Dept. of Transportation
Pedestrian Fatalities 2006-2012

Pedestrian Injuries 2006-2010

Sources: Injuries, NYS Dept. of Transportation – Fatalities, NYC Dept. of Transportation
Crash Details

49% of ped crashes: Peds crossing with signal

Turning vehicle failure-to-yield

32% of ped crashes: Peds crossing against signal

Long crosswalks/not enough crossing time for full cross

Rear-ending & overtaking crashes were over-represented (31%, 20%) vs. Borough-wide (25%, 14%)

Speeding and unsafe lane-changes
Bridge Feeds Traffic into Lower East Side

Delancey Street

- Bowery
- Eldridge St
- Orchard St
- Norfolk St
- Suffolk St
- Clinton St
- Houston St
- Williamsburg Bridge
- FDR Drive
- Chrystie St
- Allen St
- Ludlow St
- Essex St
- Manhattan Bridge
- Grand St
Traffic Builds to Williamsburg Bridge
Focused Solutions

1. Shorten crosswalks
2. Clarify travel lanes
3. Alter signal timing
4. Modify Network
5. Enhance bridge entrance
Rapid Response Toolkit

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

Painted Sidewalk Extension Examples

Canal St at E. Broadway Lower East Side

Schermerhorn St., Brooklyn
Pedestrian Issues

Long crosswalks

Countdown signals indicate time remaining to cross
Pedestrian Issues

Drivers required by law to yield to pedestrians—and often do not.
Clinton St Crosswalk

Existing
Clinton St Crosswalk

Shortened 49 feet

Planned
Shorten Crosswalks

Sidewalk extends in front of current right-turn only lane

Clinton St crosswalk shortened 49 feet
Suffolk St crosswalks shortened 44 + 36 feet

North service road turns right on Clinton St
South service road access shifted east
Essex St Crosswalk
Essex St Crosswalk
Shorten Crosswalks

Crosswalks shortened

Shortens 14 of 19 crosswalks from 5’ to 49’ for a total of 286 linear feet, effectively provides more crossing time
Traffic Network Issues

Wide outer lane, not wide enough for parking + adequate moving lane
Clarify Travel Lanes

Improves alignment

Adds pedestrian space opposite turn lanes
Traffic Network Issues

Inconsistent roadway profile
Especially at study area “ends”
Shorten Crosswalks

Takes space in overly wide roadbed…

or where fourth lane is not necessary
Traffic Network Issues

Left-turns aggravate congestion. Currently nine 24/7 left-turns bans plus two part-time bans at Allen St + Essex St
Modify Network

Current turn restrictions =
New restrictions =

Extend 4 – 7 PM to 24/7

Extend 7 AM – 7 PM to 24/7

Bowery, Chrystie

New 24/7
Traffic Network Issues

Clinton Street access to bridge blocked

Delancey St
Network Issue

Current Signed Route from FDR Drive to Bridge

788 vehicles turn right onto Delancey from Norfolk St
Open Clinton St to Bridge

Maintains bike access

Less traffic on local streets

New traffic from Clinton St to bridge will discourage speeding + red-light running
Enhance Bridge Approach

Very long crosswalks

Highway style not local street
Enhance Bridge Approach

Space for new gateway plaza of 14,160 sq. ft.
Enhance Bridge Approach
Proposal Summary

1. Shorten crosswalks at 14 of 19 locations on Delancey corridor w/new neckdowns and median tip extensions

2. Convert Clinton St between Grand and Delancey to one-way NB, allowing easier and conflict-free access to the bridge from FDR

3. Improve corridor traffic flow with full time LT bans from SB Essex to Delancey, EB Delancey to Chrystie, and EB Delancey to Allen; force bridge service road right-only

4. Investigate signal timing modifications to allow for longer crossing time

5. Create new public space between Norfolk + Clinton
Thank You

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