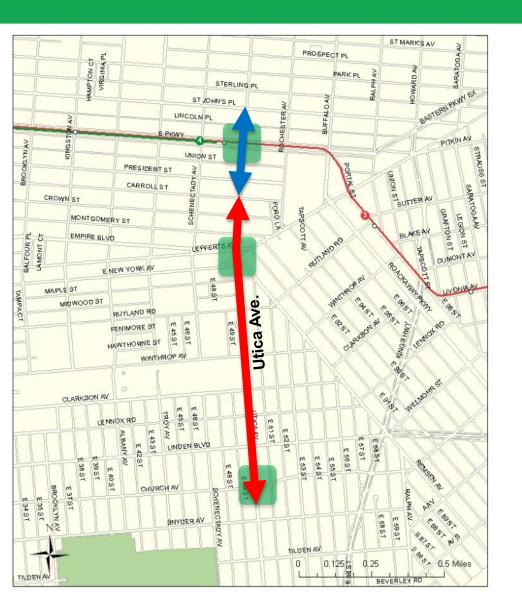


NEW YORK CITY Utica Avenue Bus Priority and Safety Study





Project Overview

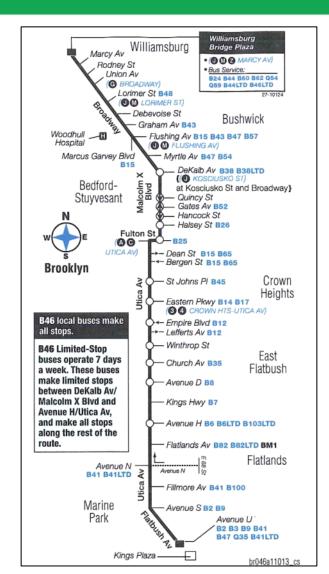


- Focus on Utica Avenue from St. Johns Place to Church Avenue
- Key intersections at Eastern Parkway, Empire/Lefferts, Church Avenue
- Study goals
 - Improve pedestrian and driver safety
 - Improve bus travel times
 - Maintain parking and curb access



Transit Needs: B46 Bus Service

- Limited subway access
- B46: second busiest bus route in NYC
- Over 49,000 bus passengers per weekday
- Average speed of 6.8 mph, below Bklyn avg.
- Congestion: slower buses and bus bunching





Safety Needs: Carroll St. to Church Ave.

- Speeding: 63% of vehicles exceed speed limit (30 mph)
- Crash stats 2006-2010:
 - 766 total crashes
 - 41 severe injuries
 - 2 fatalities
- Utica has among the highest rate of injury from motor vehicle crashes in Brooklyn





Parking Needs: Merchant Request

- Request for expanded parking on Utica Ave. bet. Eastern Parkway and Carroll St.
- DOT seeking to balance parking needs with needs of B46 bus riders





Community Feedback

Key Feedback

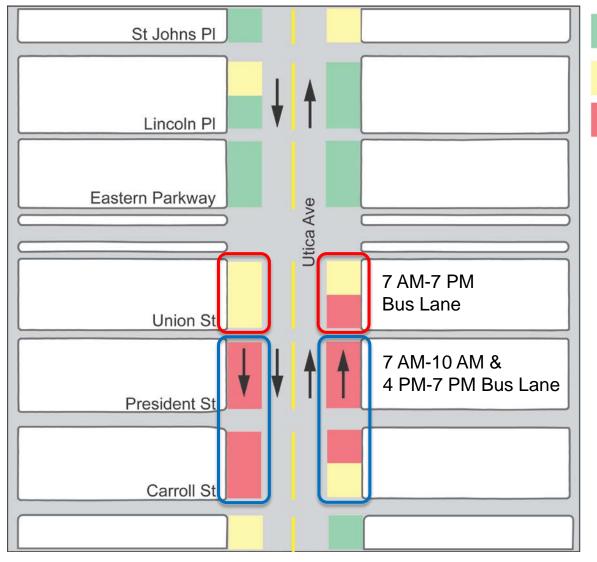
- B46 provides an important service for the local community
- Pedestrian safety concerns, esp. at Eastern Pkwy., East New York Ave., and Church Ave.
- Risky driving concerns, inc. speeding, illegal U-turns and lefts, esp. by dollar van drivers
- Maintaining street parking supply is important to local businesses (particularly near Eastern Parkway)
- More enforcement needed
- Need to coordinate signal timing better
- Do not impact traffic flow



St. Johns Pl. to Carroll St:



Existing Conditions



Parking/Loading

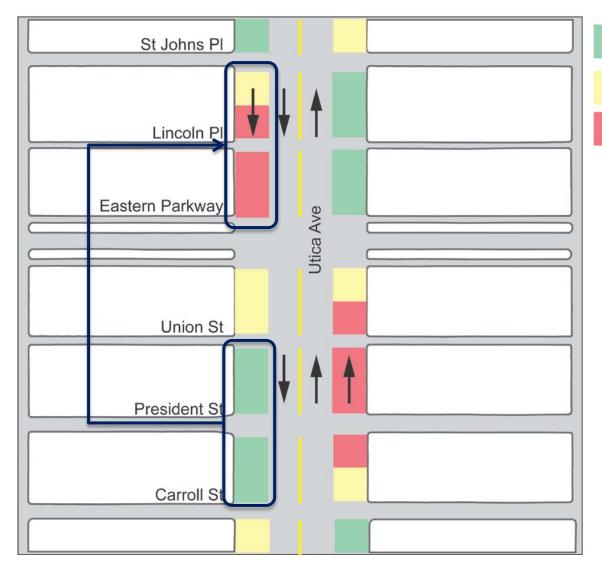
Bus Stop

Bus Only Lane

Traffic congestion
 is worst on
 approaches to
 Eastern Parkway



Proposed Improvement



Parking/Loading

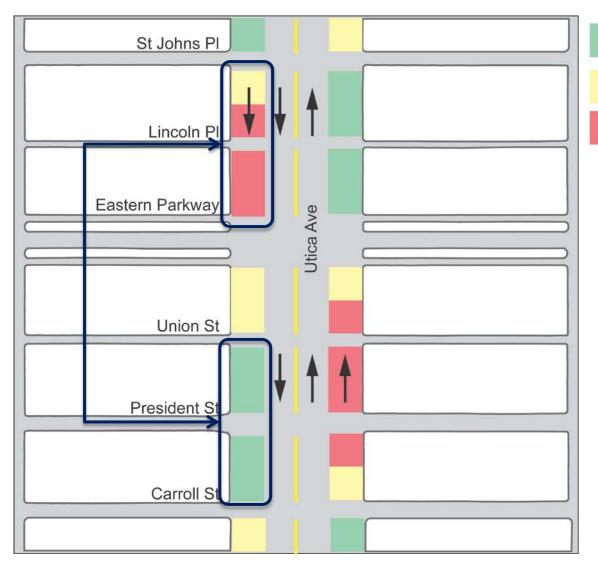
Bus Stop

Bus Only Lane

- Remove bus lane
 Union-Carroll
- Install bus lane from St. John's Place to Eastern Parkway



Proposed Improvement



Parking/Loading

Bus Stop

Bus Only Lane

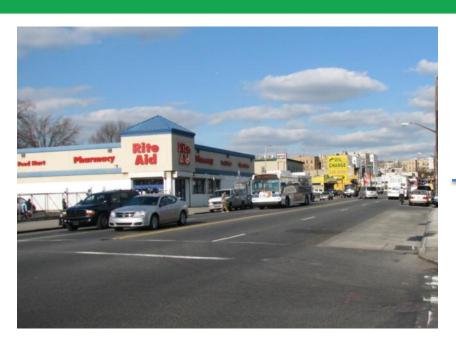
- Reduces bus delays on SB approach to Eastern Pkwy.
- Net gain: 19 peak period parking/loading spaces



Carroll St. to Church Ave:



Proposed Solutions



- Convert one travel lane to "offset" bus lane to reduce speeding, maximize parking, and benefit bus service
- To improve safety and traffic flow: add left turn bays at some intersections, prohibit left turns elsewhere
- Implement Transit Signal Priority, optimize corridor signal timings
- Adjust bus lanes near Eastern Parkway to increase parking



Potential Left Turn Bans

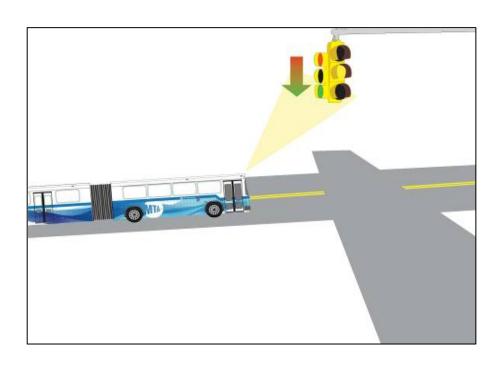


- Safety Benefits
 - Reduce conflicts
 between pedestrians
 and vehicles
 - Reduce conflicts
 between through traffic
 and turning vehicles
- Traffic Benefits
 - Reduces traffic congestion



Traffic Signal Changes

- Optimize traffic signal offsets for all traffic
- Increase signal cycle from 60 seconds to 90-120 seconds
 - Increase green time for Utica Avenue while maintaining safe pedestrian crossing times
 - Better match cycles at Church, Linden, Eastern Parkway
- Implement Transit Signal Priority from Kings Highway to Broadway (with NYCT)





Traffic Analysis

- Measured traffic conditions at all intersections in AM, MD, PM peak hours
- "Synchro" network constructed to evaluate all intersections with coordinated signal timing
- Build conditions included all traffic lane changes, signal timing changes
- Analysis shows that project will maintain traffic flow at all intersections, in all peak periods
 - In PM peak, 10 intersections improve, 7 neutral, 1 declines slightly (LOS B to LOS C)



Project Benefits

Transit:

- Faster, more reliable service on B46
- Sets groundwork for potential future Select Bus Service

Safety:

- Bus lanes help reduce off-peak traffic speeding
- Left turn restrictions and bays improve pedestrian safety

Traffic:

Maintains all traffic at acceptable level of service

Parking:

- +19 parking spaces near Eastern Parkway (within 3 blocks)
- -22 parking spaces along southern part of corridor (~1 per block face)



Next Steps

- Present proposed changes to CBs
- Finalize implementation plan and schedule potentially Fall 2013
- Develop capital project for bus bulbs (if desired)



Questions?

