Clinton/Hell's Kitchen Neighborhood Traffic Study Project Advisory Committee Meeting May 31, 2011





Objectives of Meeting

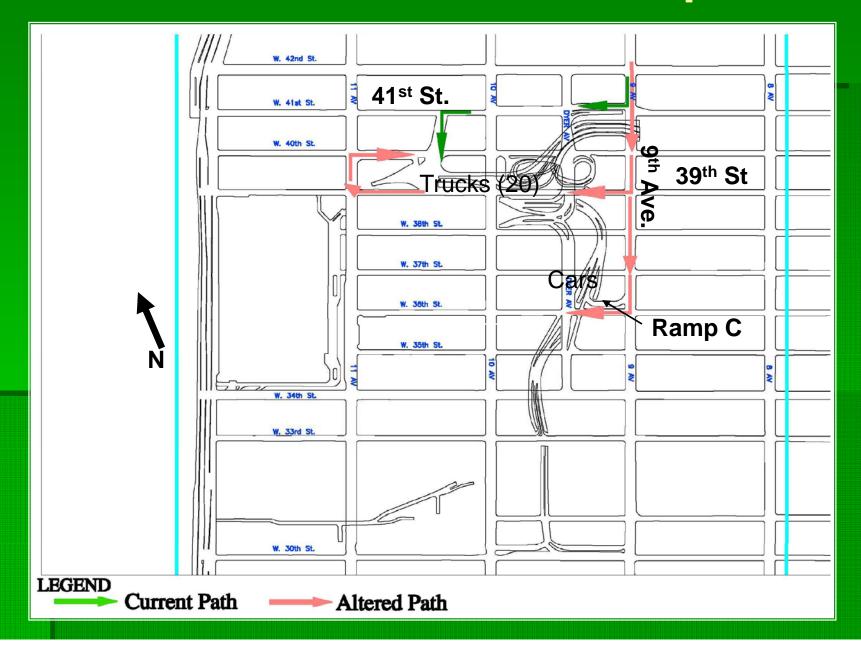
Update on progress to date
New analyses of base year (2008) conditions
Results from analysis of improvements

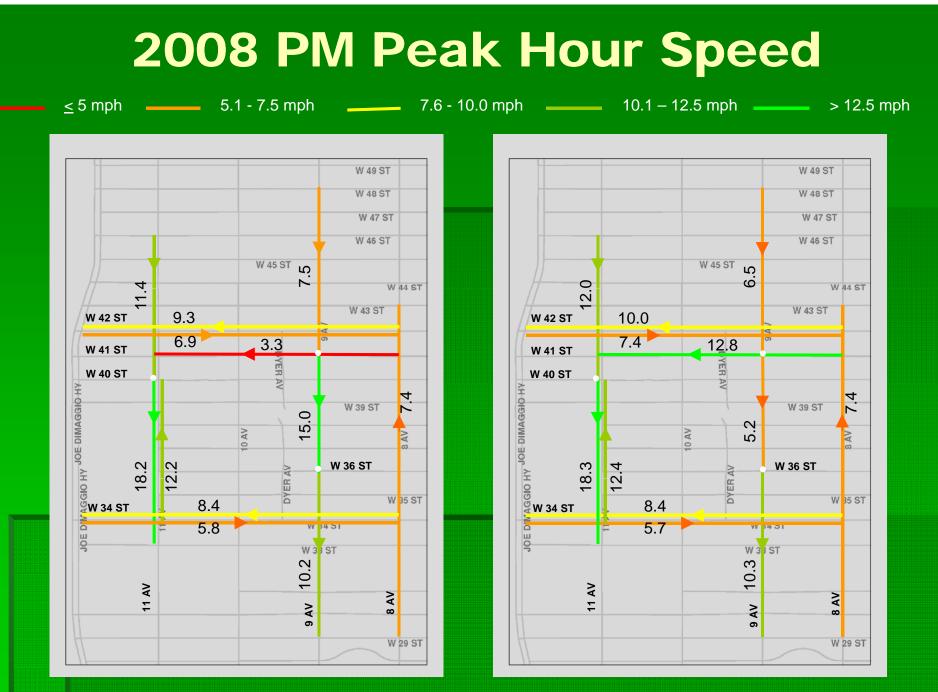
Progress Since June 2010 Further improved the customized analysis tool. Prepared future traffic volumes with known street network changes. Analyzed traffic effects of various improvement scenarios.

Existing Conditions Analysis

- Traffic Volume
- Traffic Speed and Delay
- Observed Queue Length
- Safety
- Pedestrian Volumes and Level of Service
- Truck Volumes and Loading Zones
- Transit Ridership
- Bicycle Volumes
- On-Street and Off-Street Parking

Enforce PM prohibition of right-turns from 9th Ave onto 41st St, except buses





SB RIGHT-TURN FROM 9 AV TO W 41 ST BAN <u>NOT</u> ENFORCED SB RIGHT-TURN FROM 9 AV TO W 41 ST BAN ENFORCED

2015 PM Peak Hour Speed Without Improvements 5.1 - 7.5 mph 7.6 - 10.0 mph 10.1 - 12.5 mph > 12.5 mph

<u>< 5 mph</u>

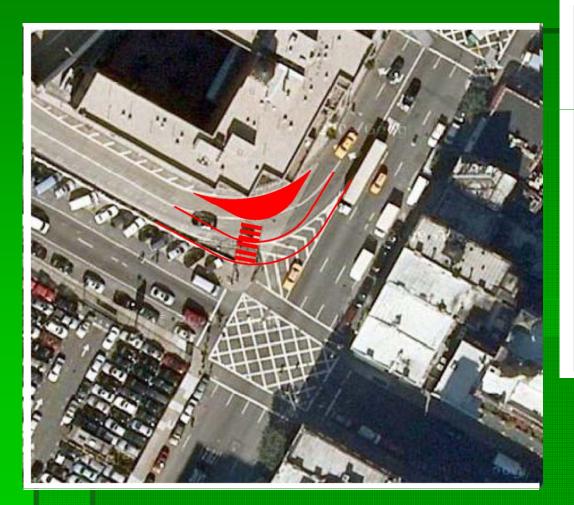


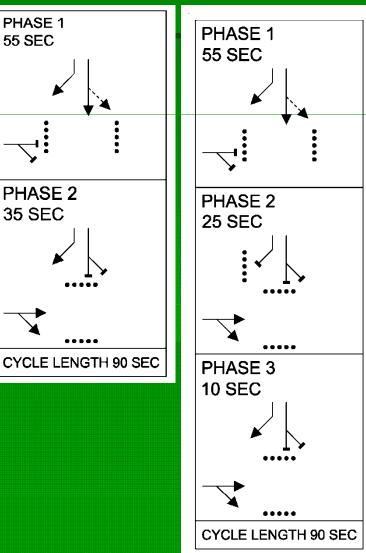


SB RIGHT-TURN FROM 9 AV TO W 41 ST **BAN ENFORCED**

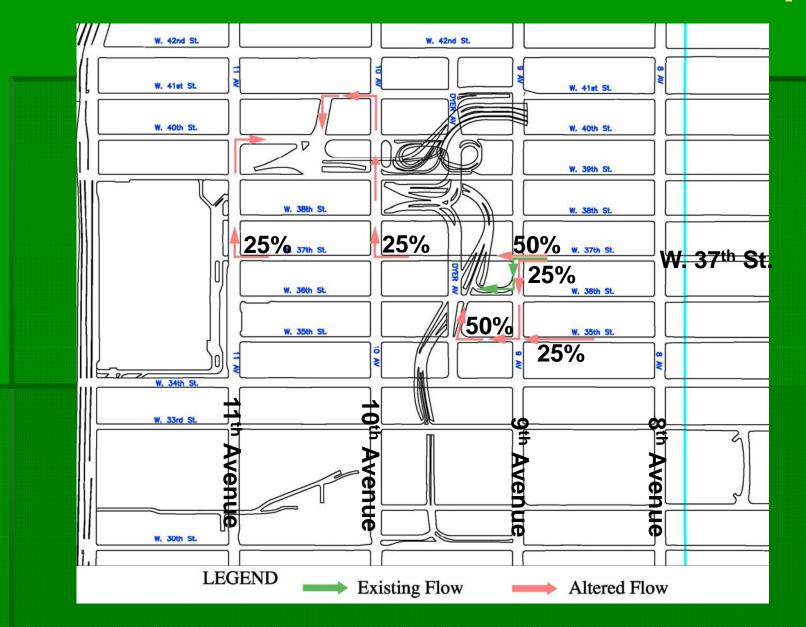
SB RIGHT-TURN FROM 9 AV TO W 41 ST **BAN NOT ENFORCED**

2015 With Improvements Signalize Ramp C EXISTING SIGNALIZED

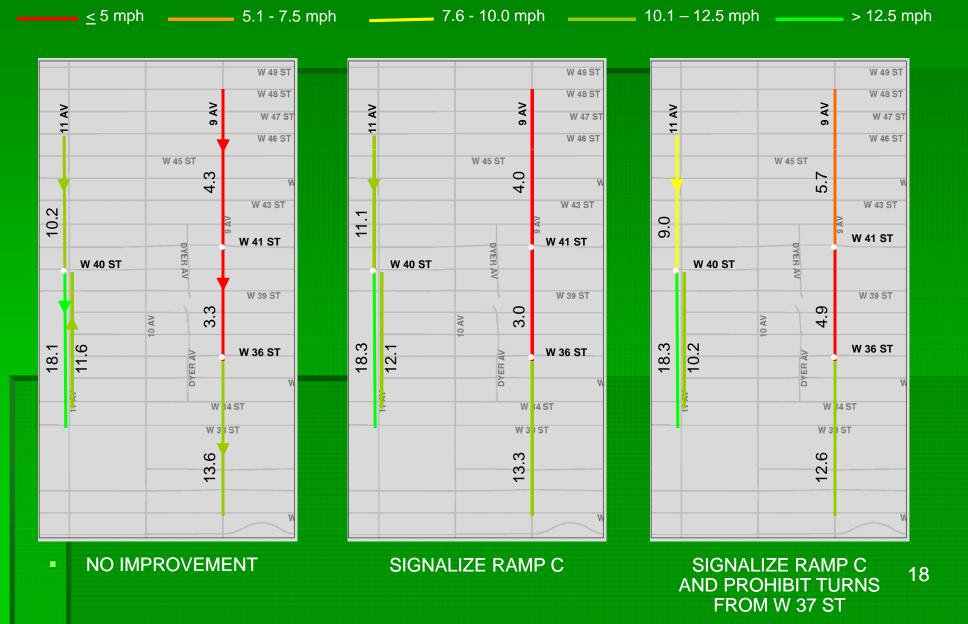




2015 With Improvements Ban left-turn PM from 37th St. to Ramp C



2015 With Improvements Ramp C Signalized



2015 with Improvements

 Signal Timing Changes to Improve Pedestrian Safety

- Leading Pedestrian Intervals (LPI's)
- Split-Phase Protection

- 34th & 9th
- 42nd & 10th

• 42nd & 8th

ADDITIONAL LPI'S PROPOSED FOR CROSSING AVENUES

• 43rd & 8th

• 44th & 9th

45th & 9th

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- 37th & 9th
- 39th & 9th
- SPLIT PHASING REQUESTED FOR CROSSING AVENUES

 48th & 9th

 48th & 9th
- 51 st & 9th (not in network)
- 52nd & 9th
- 46th & 10th

- 29th & 8th
- 37th & 8th
- 49th & 9th (not in network)

ADDITIONAL LPI'S REQUESTED FOR CROSSING CROSS STREETS

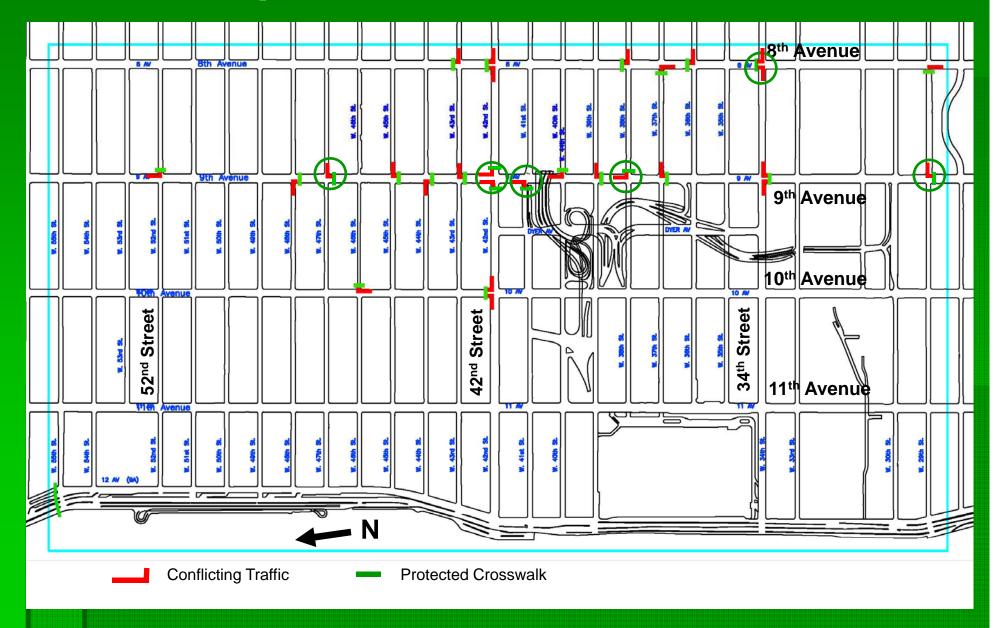
- 41st & 9th crossing 41st Street
- 42nd & 9th crossing 42nd Street
- 47th & 9th crossing 9th Avenue
- <u>30th & 9th crossing 9th Avenue</u>

34th & 8th crossing 8th Avenue

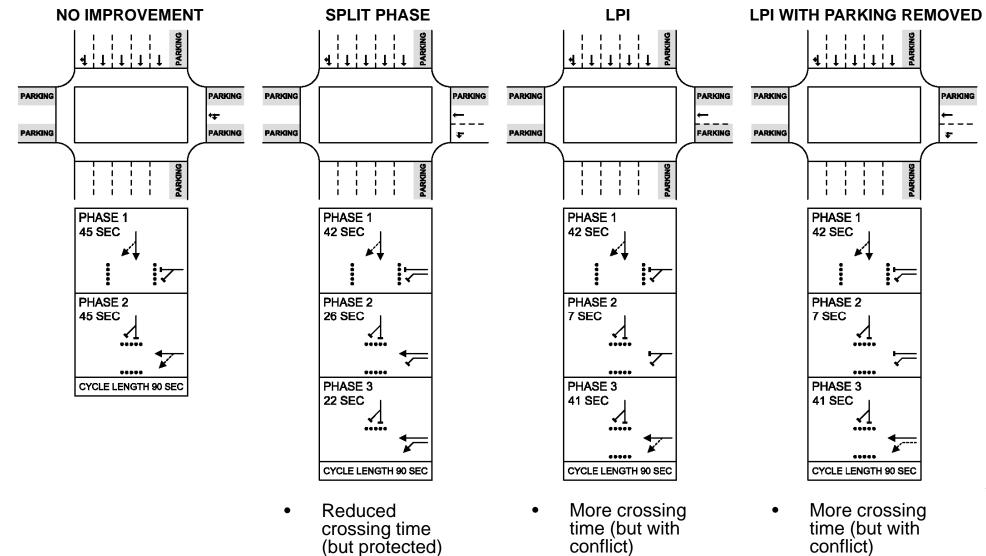
• 38th & 9th crossing 38th Street

LPI'S IMPLEMENTED AS EARLY ACTION ITEMS

2015 with Improvements LPI and Split-Phase Locations



CROSSWALK PROTECTION OPTIONS



Adverse effect

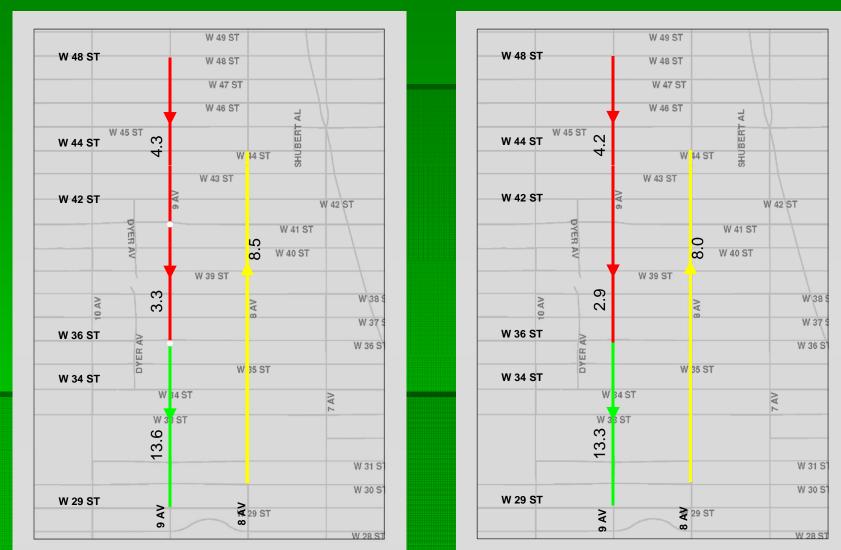
on traffic

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- Loss of parking
- High noncompliance rate (peds and vehicles)

Loss of parking

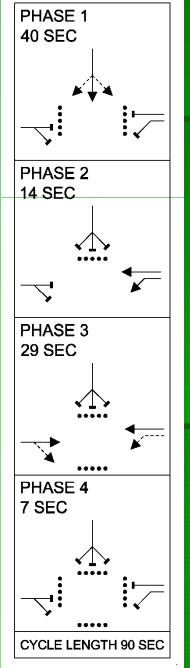
2015 PM Peak Hour Speed with Pedestrian Signal Improvements 5.1 - 7.5 mph _____ 7.6 - 10.0 mph _____ 10.1 - 12.5 mph _____ > 12.5 mph



WITHOUT IMPROVEMENTS

LPI AND SPLIT PHASES FOR PEDESTRIANS

9 AV AND W 42 ST SIGNAL TIMING

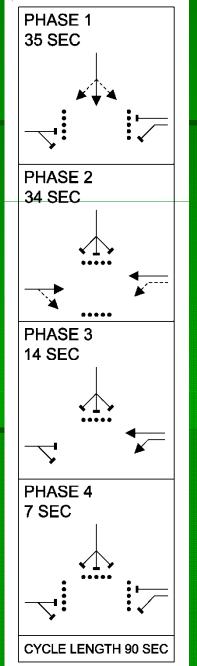


EXISTING

East & West CrosswalksPHASES 4 AND 147 secWALK25Flash DONT WALK17Steady DONT WALK5

North CrosswalkPHASES 2, 3 AND 4 50 secWALK26Flash DONT WALK20Steady DONT WALK4

South CrosswalkPHASES 3 AND 436 secWALK12Flash DONT WALK20Steady DONT WALK4



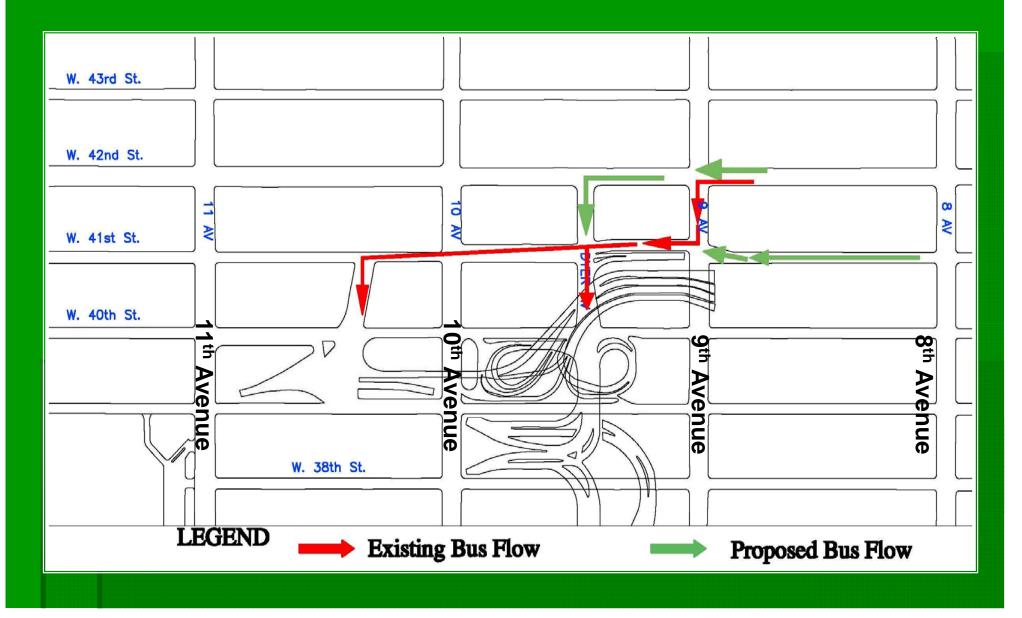
CHANGE WB- LEFT FROM LEADING TO LAGGING

East & West Crosswalks		
PHASES 4 AND 1	42 sec	
WALK	20	
Flash DONT WALK	17	
Steady DONT WALK	5	

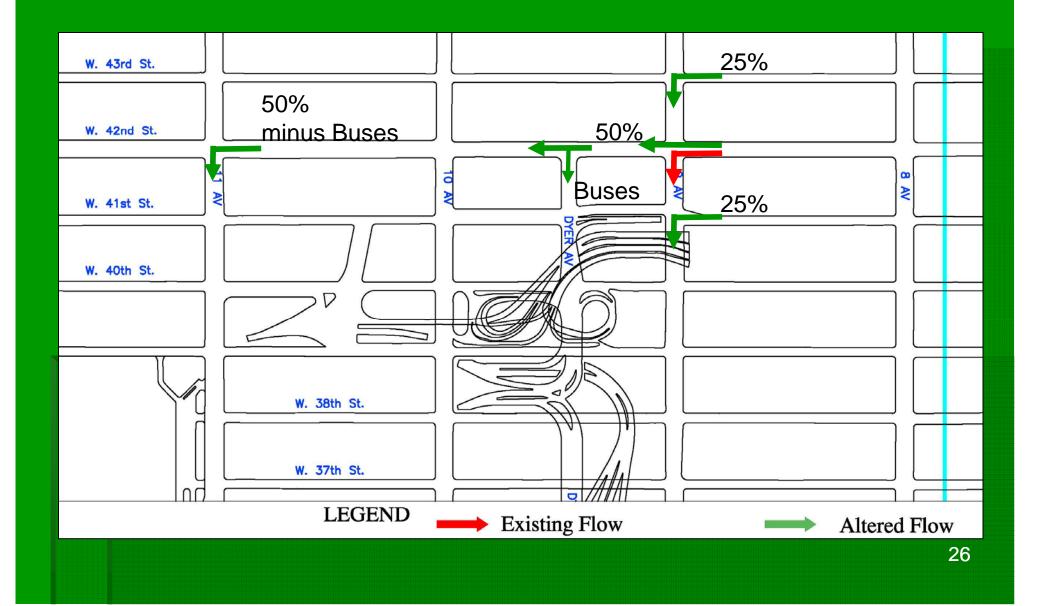
North CrosswalkPHASES 2, 3 AND 4 55 secWALK31Flash DONT WALK20Steady DONT WALK4

South Crosswalk		
PHASE 2	34	sec
WALK	10	
Flash DONT WALK	20	
Steady DONT WALK	4	

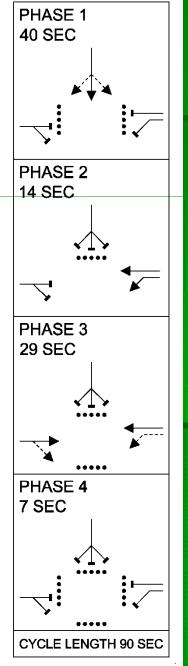
2015 with Improvements: Prohibit buses turning left from WB 42nd St. onto 9th Ave.



2015 with Improvements: Prohibit all left turns from WB 42nd St. onto 9th Ave.



9 AV AND W 42 ST SIGNAL TIMING

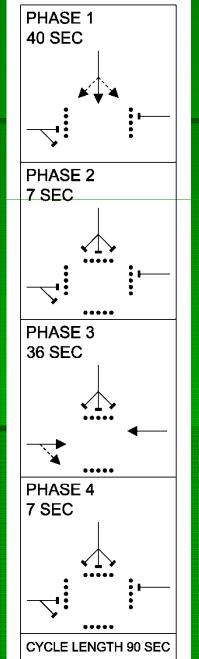


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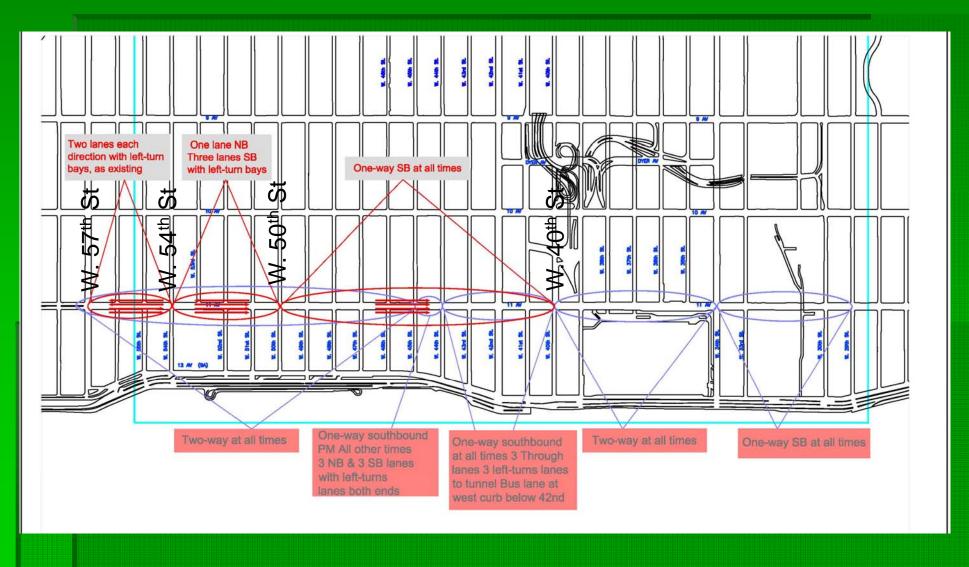


BAN WESTBOUND LEFT TURNS

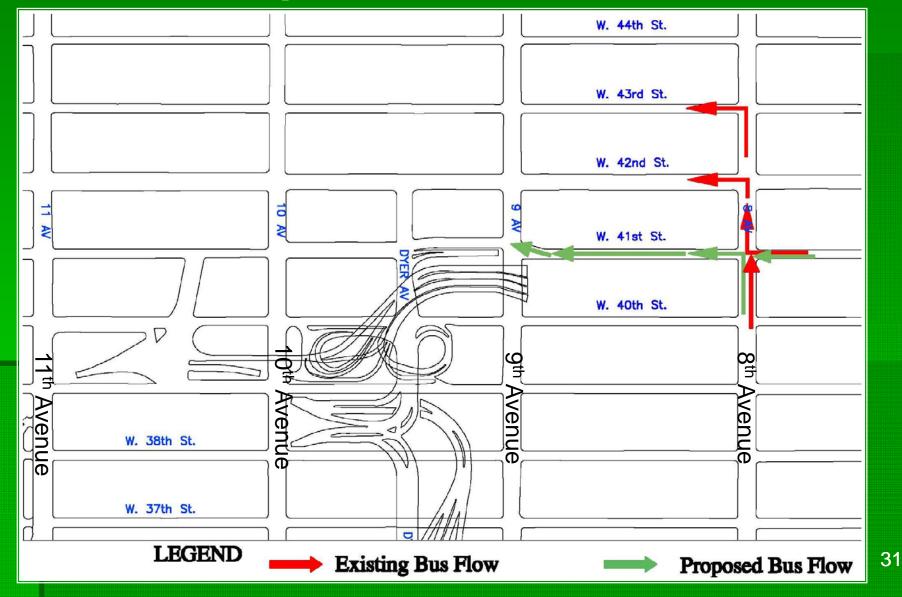
East & West CrosswalksPHASES 4, 1 AND 2 54 secWALK32Flash DONT WALK17Steady DONT WALK5

North & South CrosswalksPHASES 2, 3 AND 4 50 secWALK26Flash DONT WALK20Steady DONT WALK4

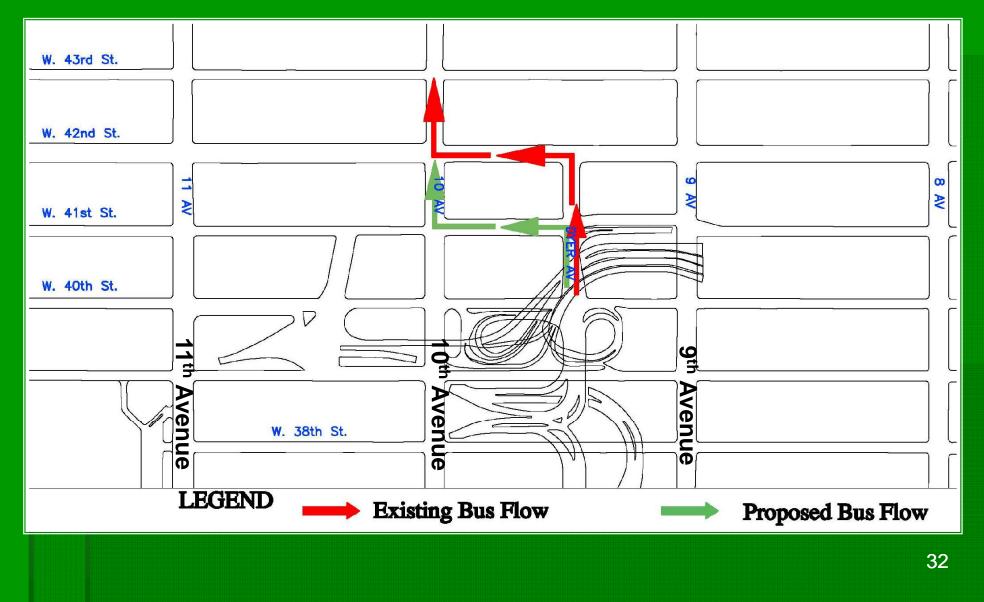
Other Alternatives: 11th Avenue Transition to One-Way Southbound from 50th to 40th Street



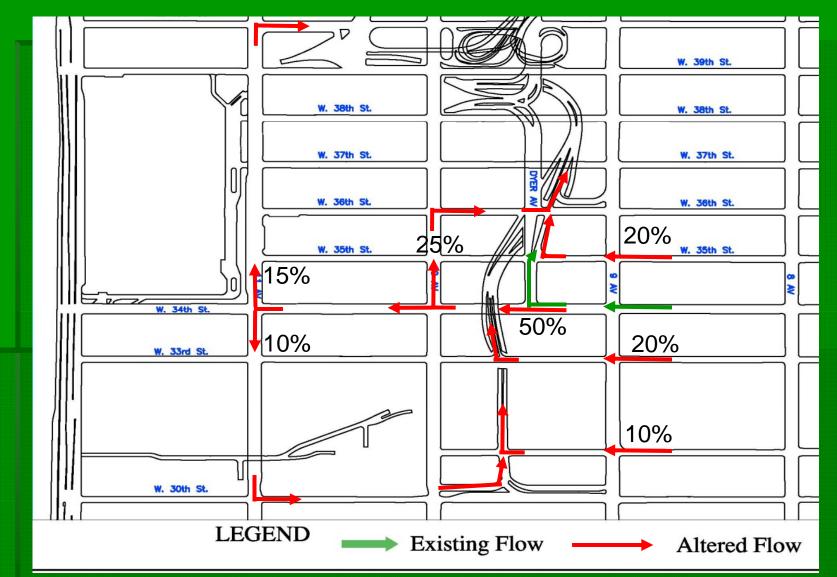
Other Alternatives: Direct Lincoln Tunnel-bound buses from 8th Ave. and points east to use 41st St



Other Alternatives: Direct buses exiting tunnel for 10th Ave. to use 41st St



Other Alternatives: Close Northbound Dyer Avenue from 34th to 35th Street



Next Steps

- Release Technical Memorandum on Existing (2008) Conditions – Mid July
- Complete analysis of packages of improvement alternatives – June 30
- Recommendations for Short-Term and Long-Term Improvements – July
- Draft Final Report September
- Final Public Meeting September
- Final Report December