

# DOWNTOWN JAMAICA TRANSPORTATION STUDY

## Future Conditions & Recommendations 2018 Street Improvement Projects

Community Board 12 – Full Board  
May 16, 2018



# AGENDA

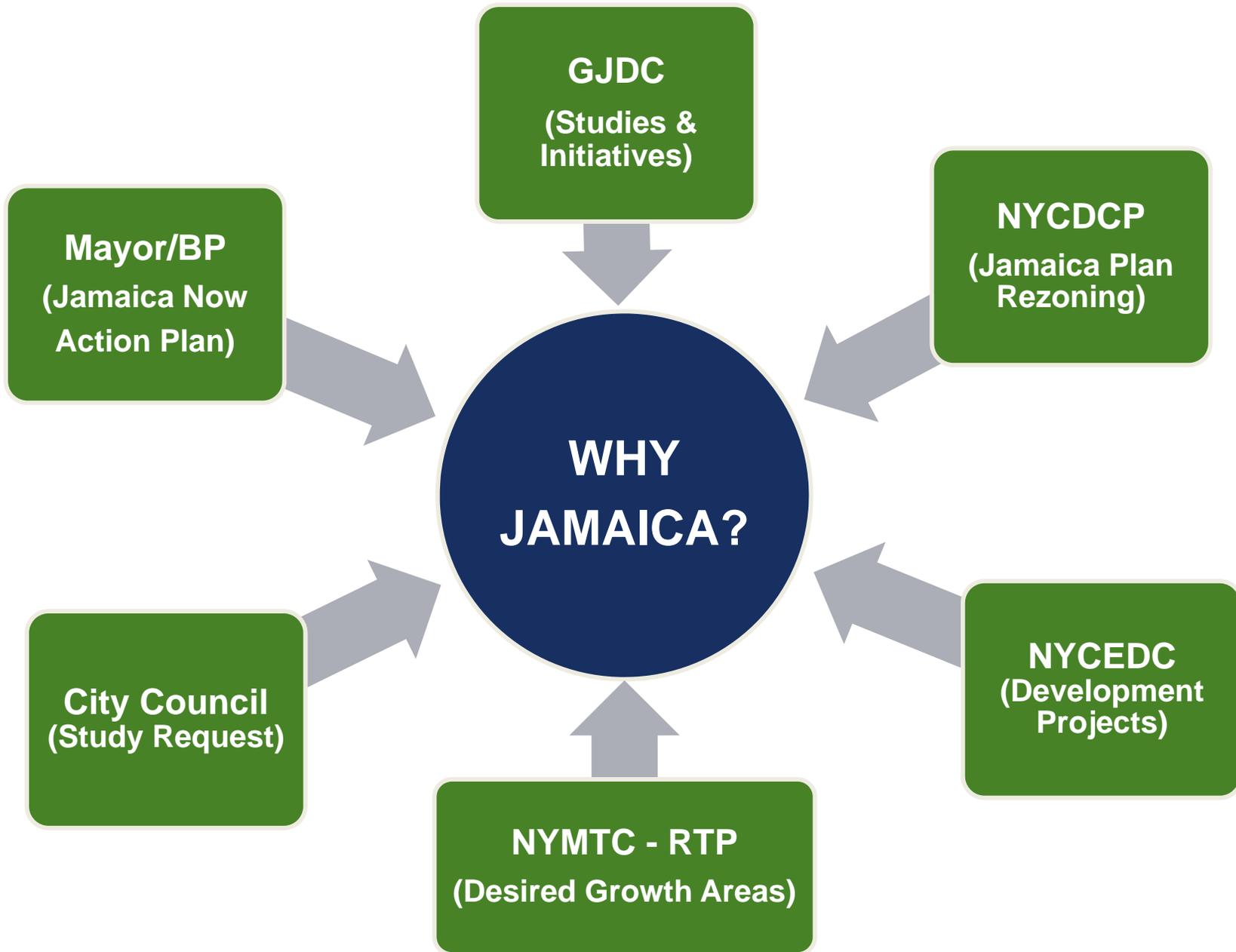
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1. STUDY BACKGROUND
2. ANALYSIS AND FINDINGS
3. RECOMMENDATIONS & IMPROVEMENT MEASURES
4. NEXT STEPS

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# Study Background

# 1



# GOALS, OBJECTIVES & STUDY AREA

## GOAL:

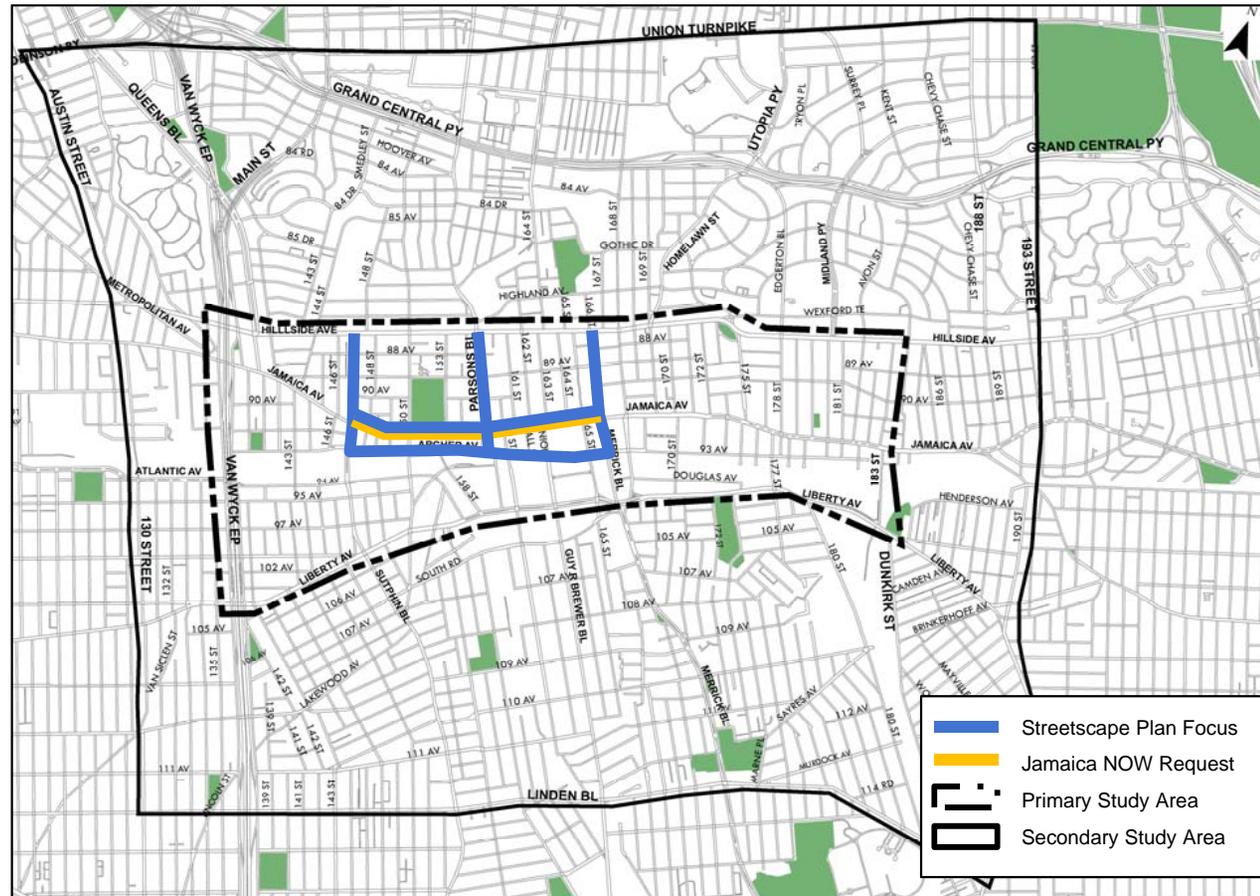
- To improve travel and traffic conditions, enhance mobility, safety, quality of life, and economic activity

## OBJECTIVES:

- Analyze existing traffic conditions
- Assess future travel demand/needs
- Develop recommendations to:
  - Reduce congestion and improve travel speeds
  - Enhance safety
  - Improve transit service
  - Improve pedestrian mobility/accessibility

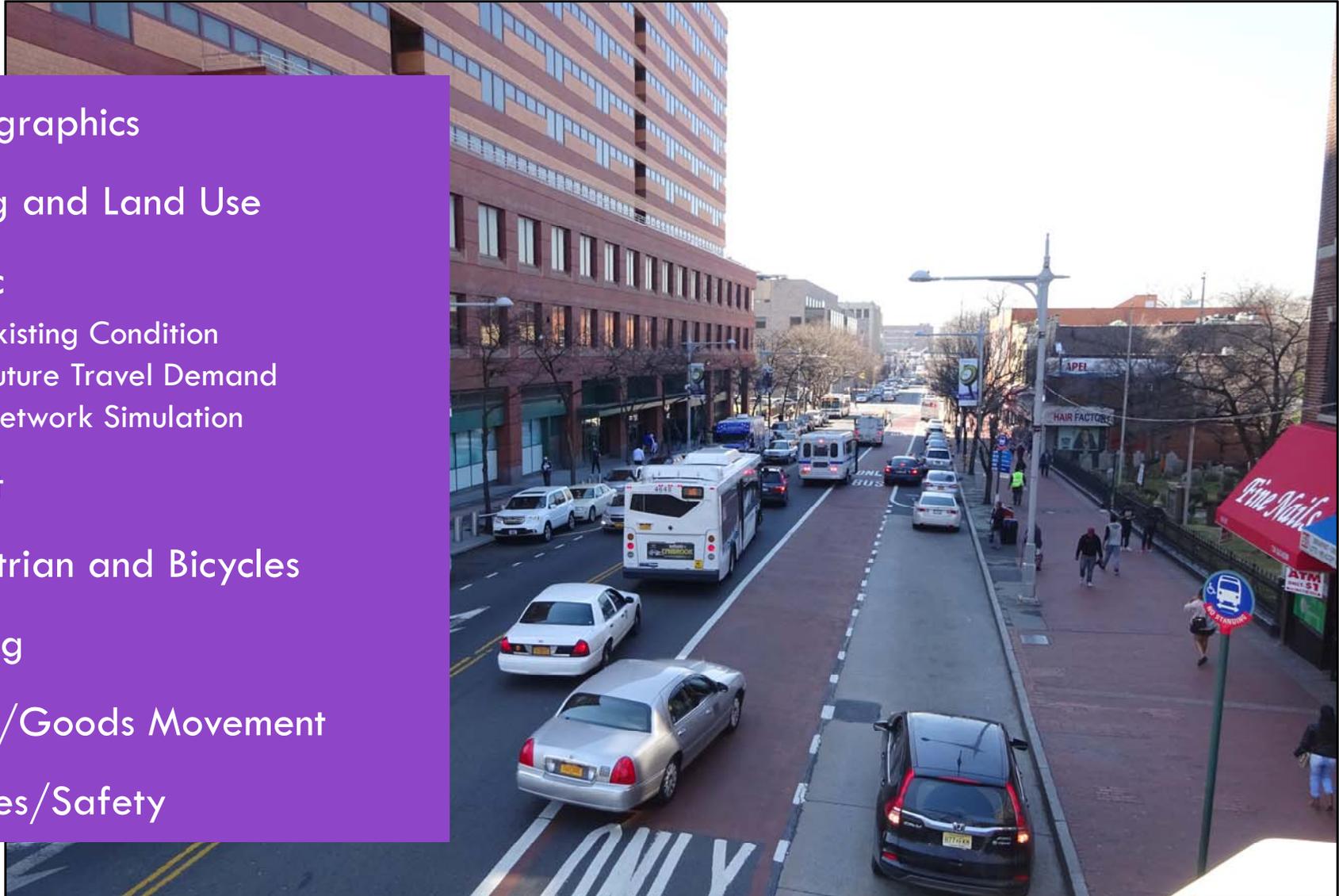
## STUDY AREAS:

- Primary – Hillside Ave, 183 St, Liberty Ave, Van Wyck Expwy
- Secondary – Union Tpke, 193 St/Farmers Blvd, Linden Blvd, 130 St/Austin St



# STUDY PLAN – DATA COLLECTION & ANALYSIS

- Demographics
- Zoning and Land Use
- Traffic
  - Existing Condition
  - Future Travel Demand
  - Network Simulation
- Transit
- Pedestrian and Bicycles
- Parking
- Trucks/Goods Movement
- Crashes/Safety



# COMMUNITY INPUT

## CONCERNS, ISSUES & IDEAS

### TAC/PUBLIC MEETING

- ❖ **Too much congestion; need TEA to direct traffic**
- ❖ **Too many buses – better manage buses circulating in the core**
- ❖ **Need to manage commuter van operations**
- ❖ Insufficient parking
- ❖ Provide better lighting to make the place more inviting and safe
- ❖ Use art to beautify LIRR retaining wall

### STREET AMBASSADORS/WORKSHOP

- ❖ Too much congestion
- ❖ Speeding is prevalent; speed and red light cameras are needed
- ❖ Traffic Enforcement Agents needed at busy intersections
- ❖ Poor roadway condition - potholes, etc.
- ❖ Not enough parking spaces

### WEB PORTAL

- ❖ Create pickup/dropoff area near Sutphin/Archer station
- ❖ Bus only lanes on Jamaica Ave do not function as planned
- ❖ Gridlock at Archer Ave/Sutphin Bl is terrible esp. in PM peak
- ❖ **Parsons Bl/Jamaica Ave – most dangerous intersection in Downtown Jamaica**

### IBZ SURVEY

- ❖ Douglas Ave is substandard east of 170<sup>th</sup> St
- ❖ Too much congestion on Sutphin Bl bet/ Liberty Ave & Hillside Ave
- ❖ Merrick Bl & Liberty Ave are problematic due to the number of commuter vans and buses
- ❖ Liberty Ave needs to be repaved
- ❖ Curb space for truck loading/unloading is needed

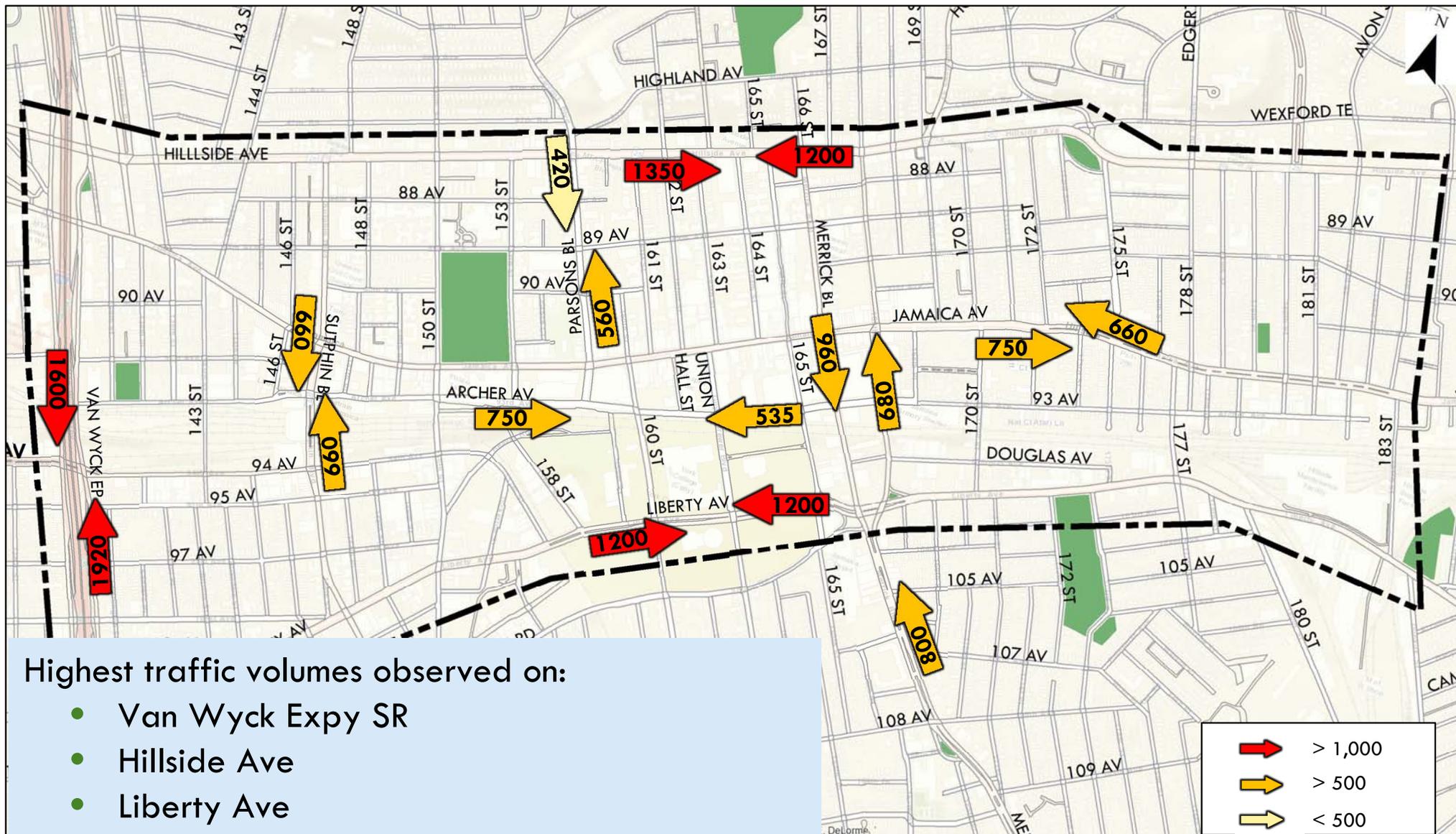
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# Detailed Analysis

# 2

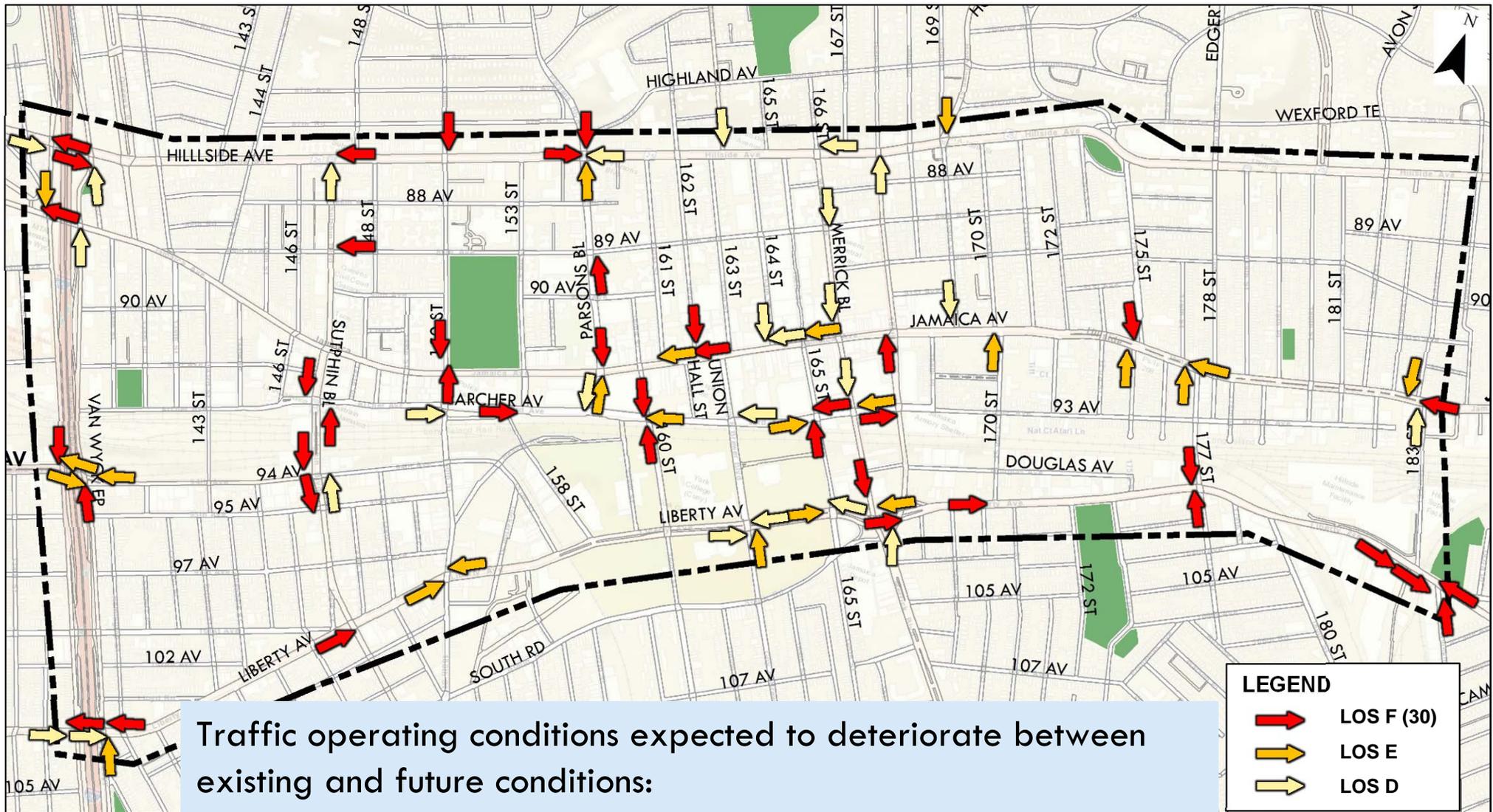
# TRAFFIC

## PM PEAK HOUR APPROACH VOLUME - FUTURE



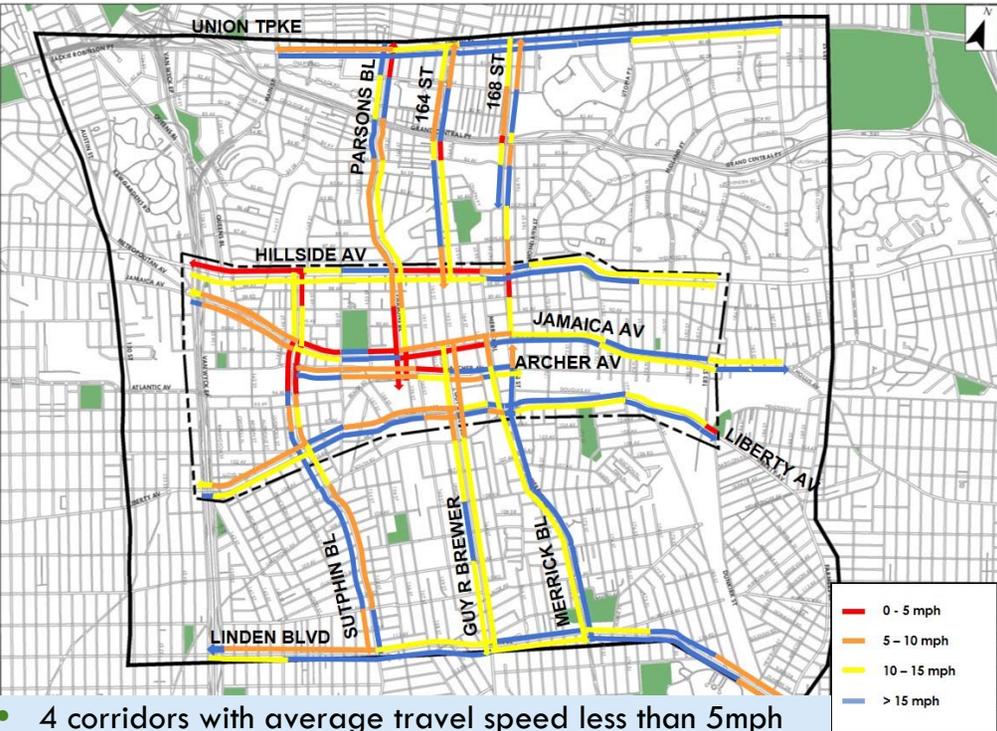
# TRAFFIC

## PM PEAK HOUR APPROACH LOS - FUTURE



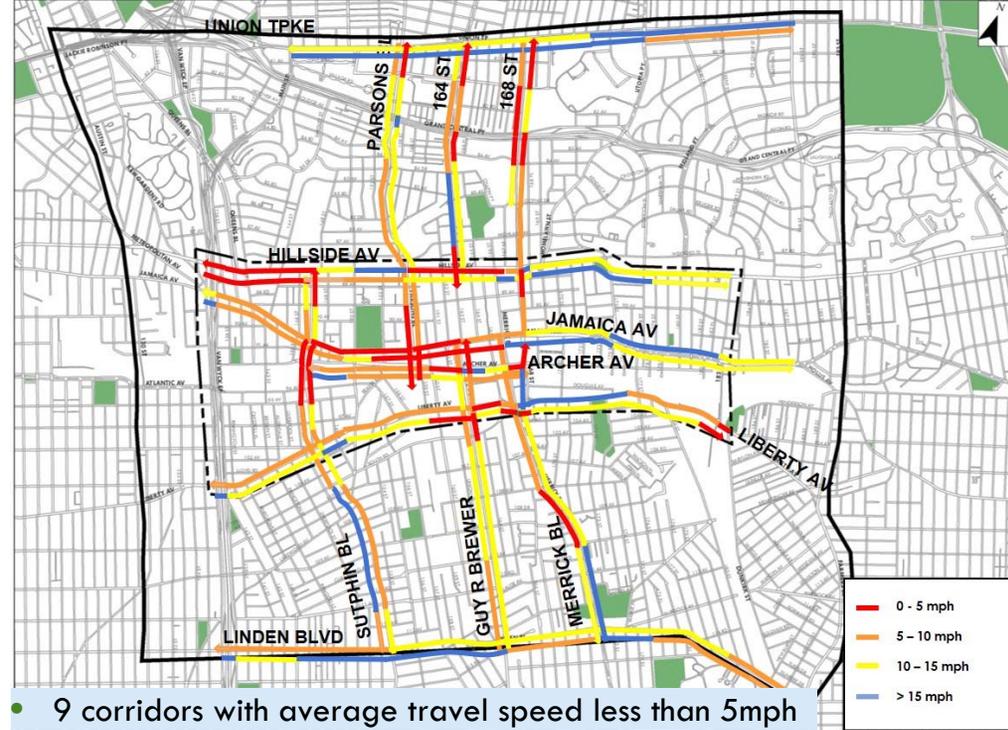
# PM PEAK CORRIDOR TRAVEL SPEED

## EXISTING



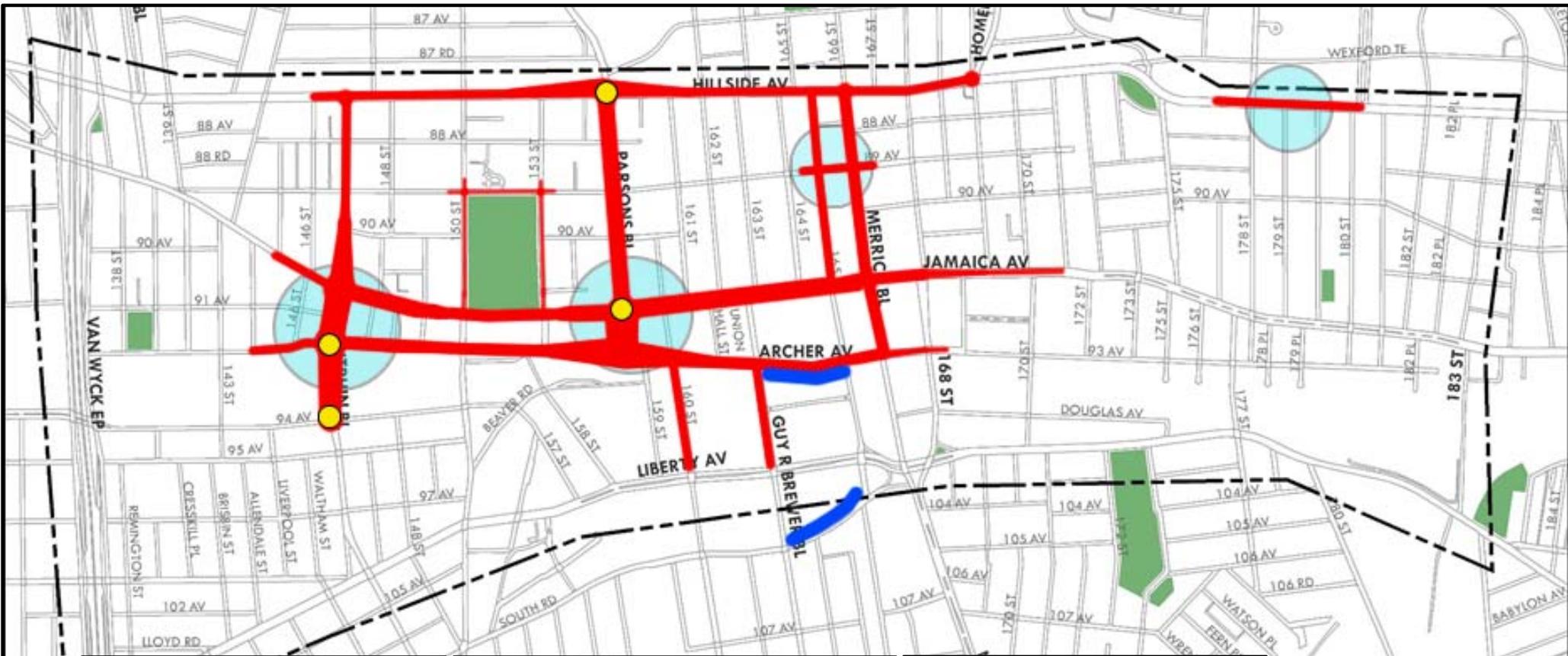
4 corridors with average travel speed less than 5mph

## FUTURE



9 corridors with average travel speed less than 5mph

# PEDESTRIAN ISSUES



**HIGH PEDESTRIAN DENSITY**



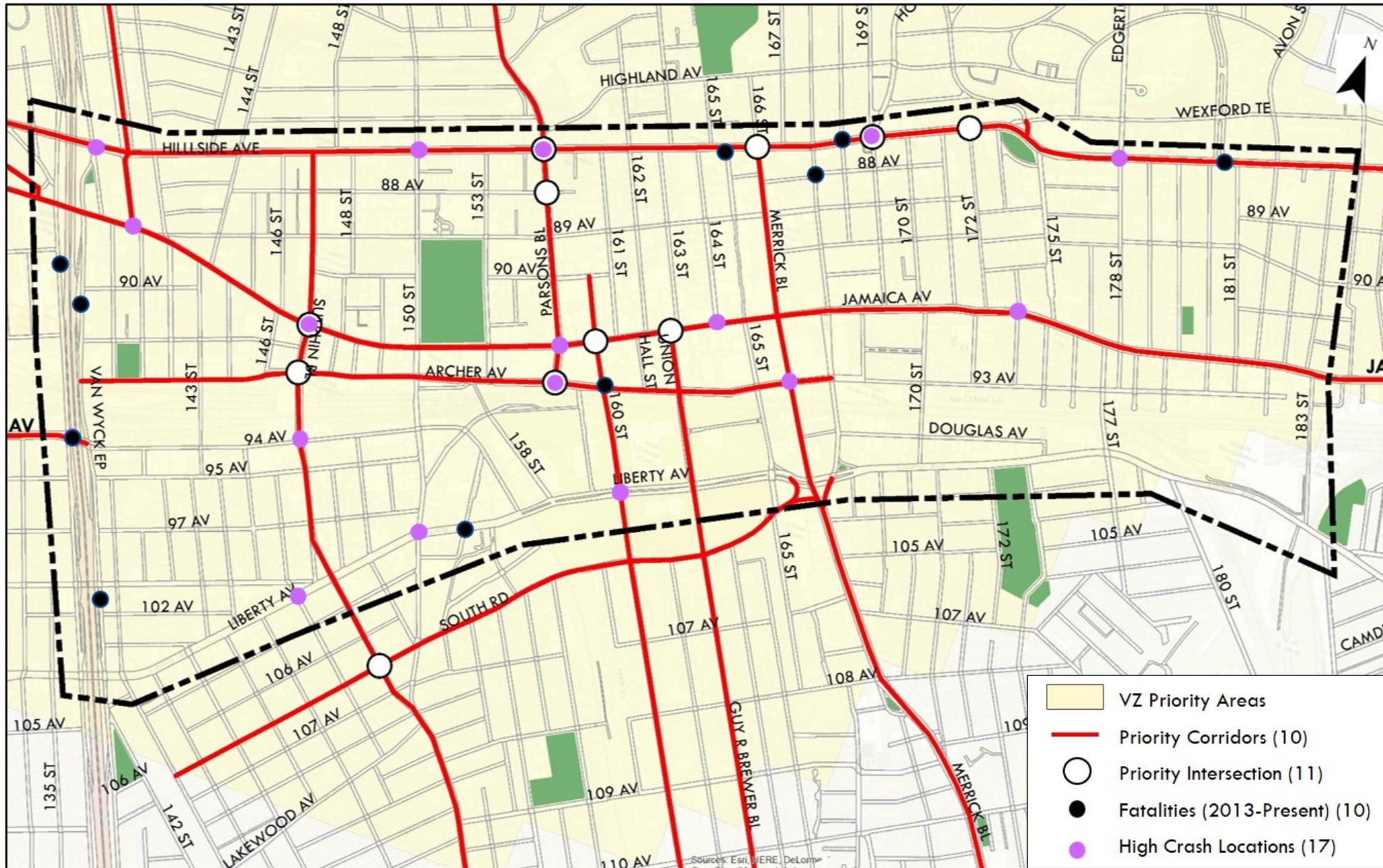
**NARROW SIDEWALKS**



**MISSING SIDEWALK**



# CRASHES (2013-2016)



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# Issues Identification & Problem Definition

# 3

# TRAFFIC & TRANSPORTATION ISSUES



**Queues/Congestion**



**Heavy Bus Traffic**



**Commuter Vans**



**Narrow Two-way Streets**



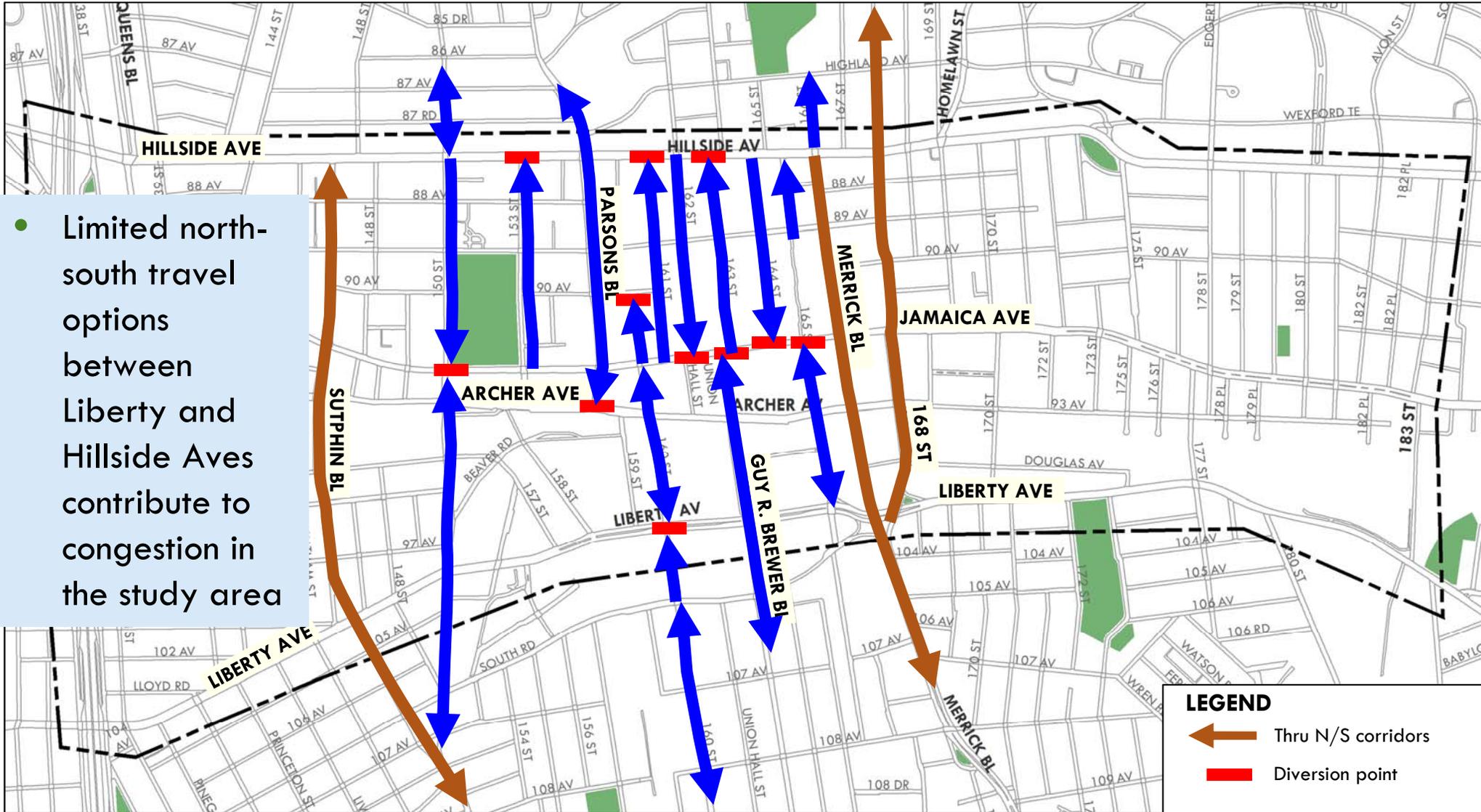
**High Volume of Surface Transit Commuters**



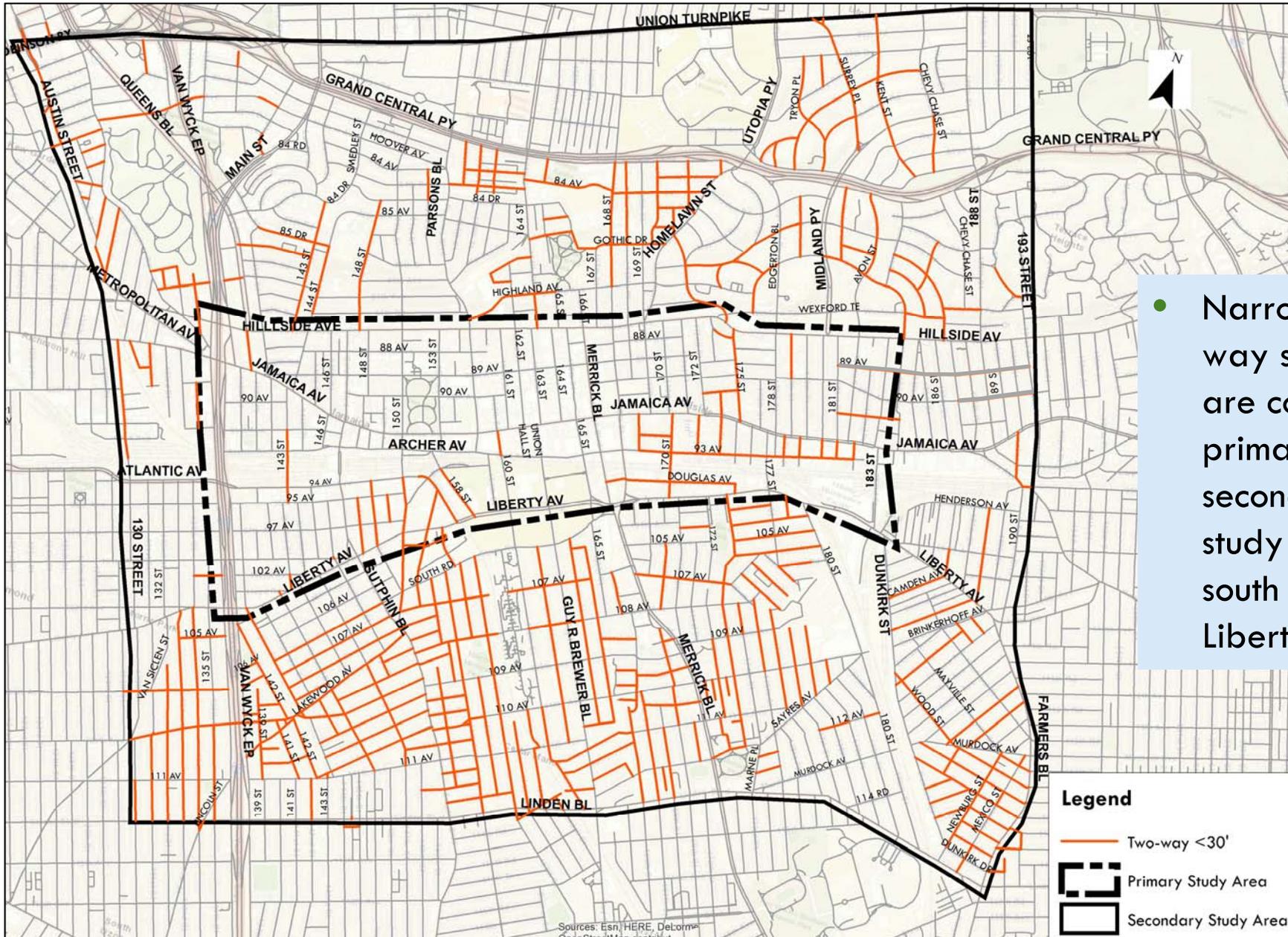
**High Parking Demand/  
Placard Abuse**

# TRAFFIC NETWORK CONFIGURATION

## NORTH/SOUTH CONNECTIVITY



# NARROW TWO-WAY STREETS



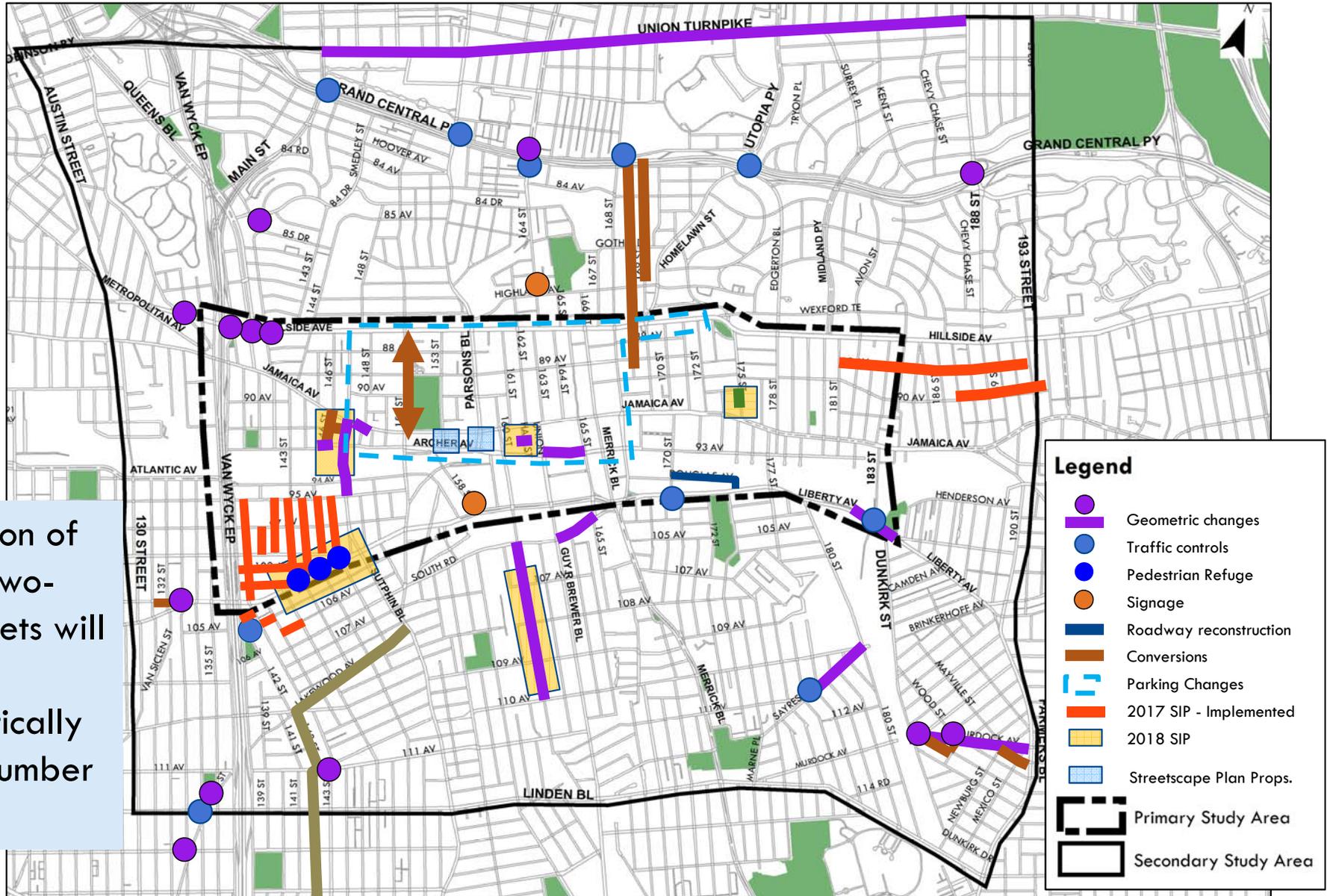
- Narrow two-way streets are common, primarily in the secondary study area, south of Liberty Ave

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# Recommendations & Improvement Measures

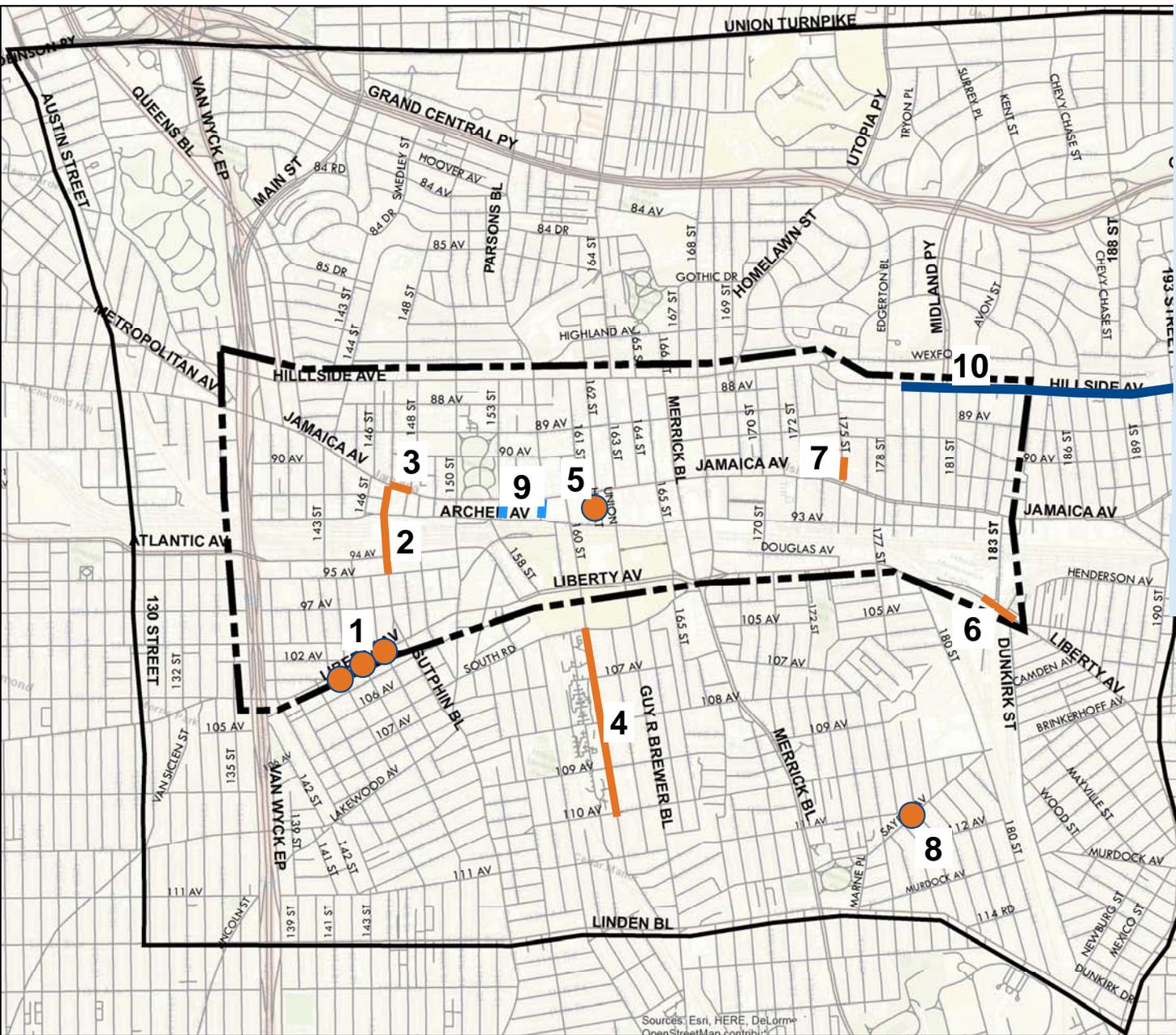
# 4

# RECOMMENDATIONS



Conversion of narrow two-way streets will be done systematically over a number of years

# 2018 STREET IMPROVEMENT PROJECTS (SIPS)



### Transportation Study

1. Liberty Ave – Allendale St to Waltham St
2. Sutphin Blvd – Jamaica Ave to 95 Ave
3. Jamaica Ave – 148<sup>th</sup> St to Sutphin Blvd
4. 160 St – South Rd to 110 Ave
5. Union Hall St – Jamaica and Archer Aves
6. Liberty Ave – 183 St to Dunkirk St
7. 175 St – Jamaica Ave to 91 Ave
8. Sayres Ave/111 Ave/177 St

### Streetscape Plan

9. Parsons Blvd/153 St

### Other

10. Hillside Ave – 179 St – 208 St

### Legend

- Primary Study Area
- Secondary Study Area

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**Long-term Improvements  
(Concepts)**

**4a**

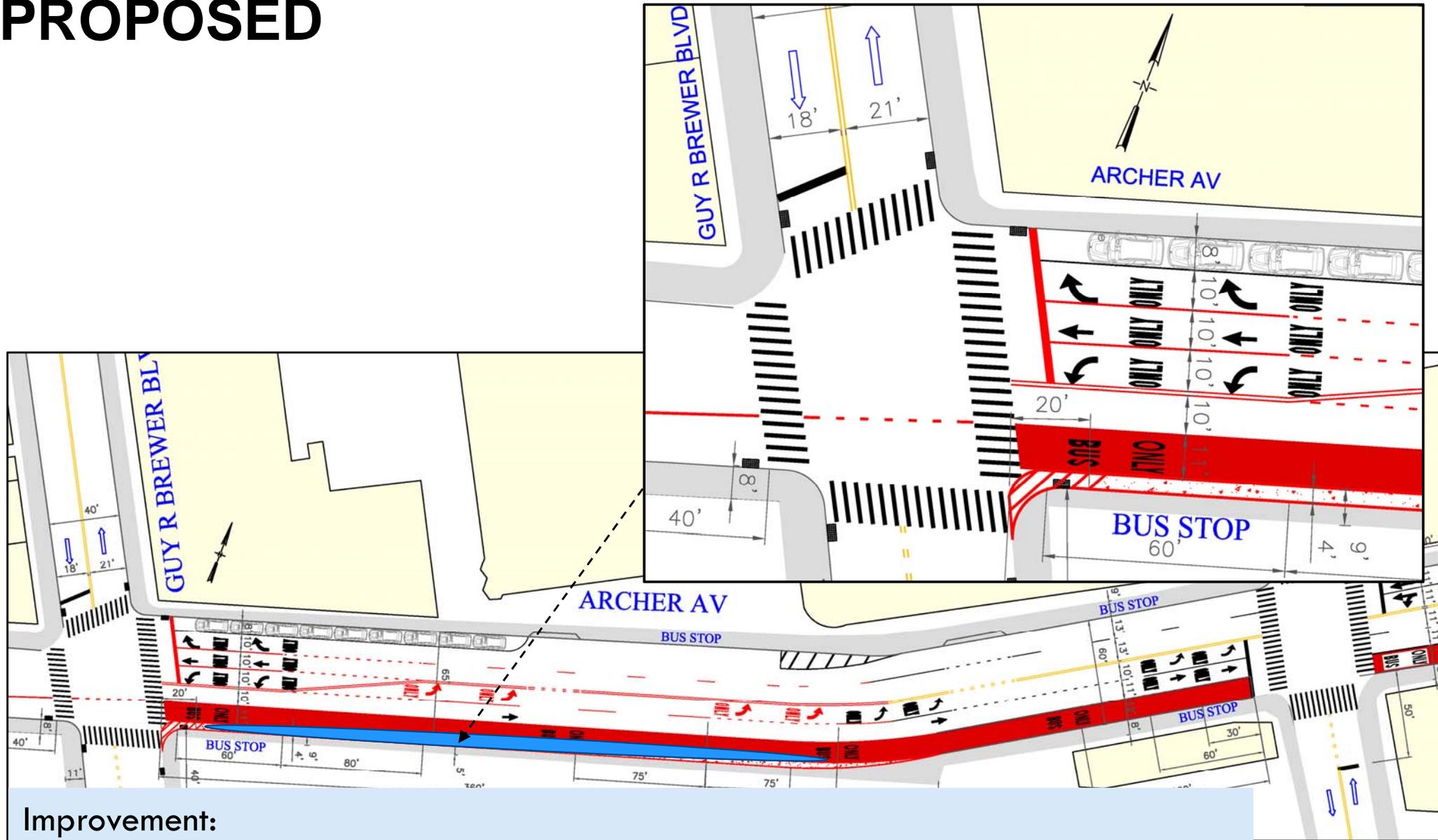
# ARCHER AVE – GUY R BREWER TO 165 ST EXISTING



Issue(s):

- Narrow sidewalks limit pedestrian mobility

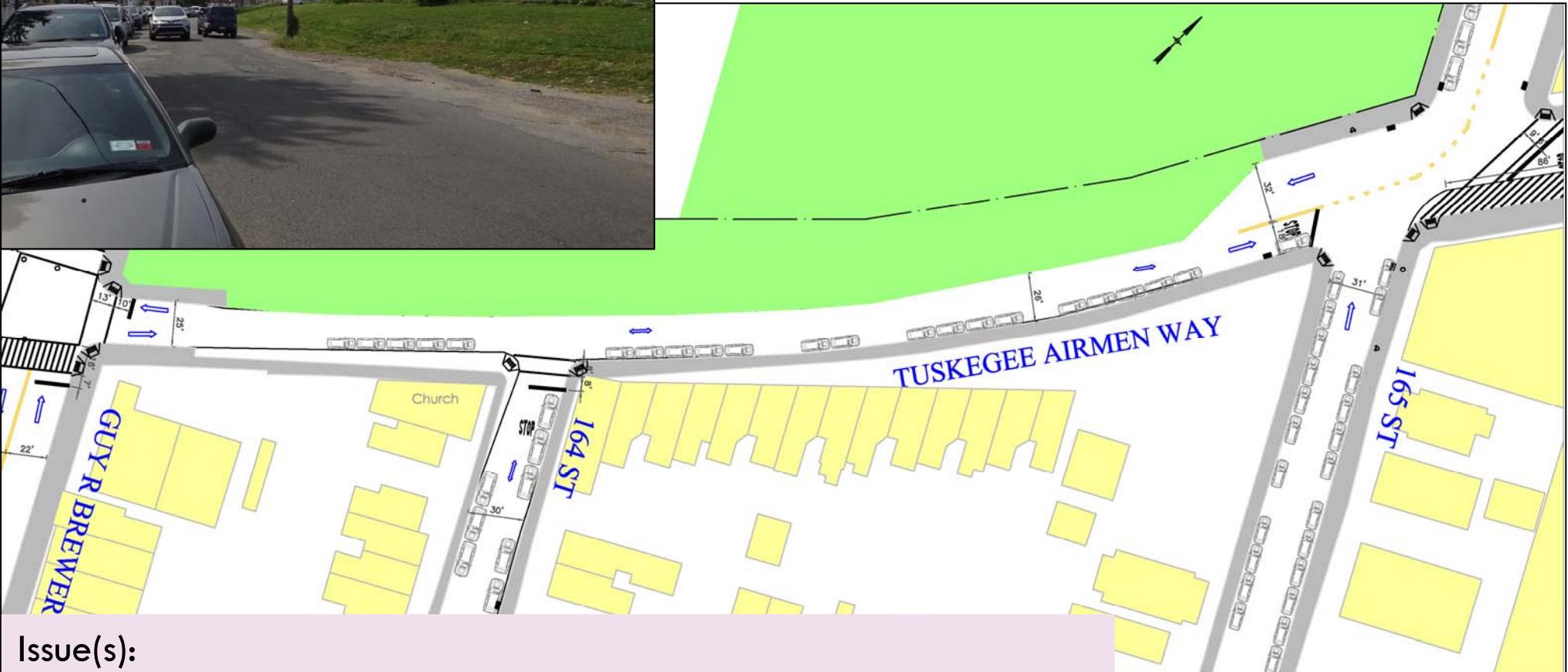
# ARCHER AVE – GUY R BREWER TO 165 ST PROPOSED



## Improvement:

- Widen sidewalk between Guy R. Brewer Blvd & 165 St by 4 feet to 9 feet
- Identified for capital project

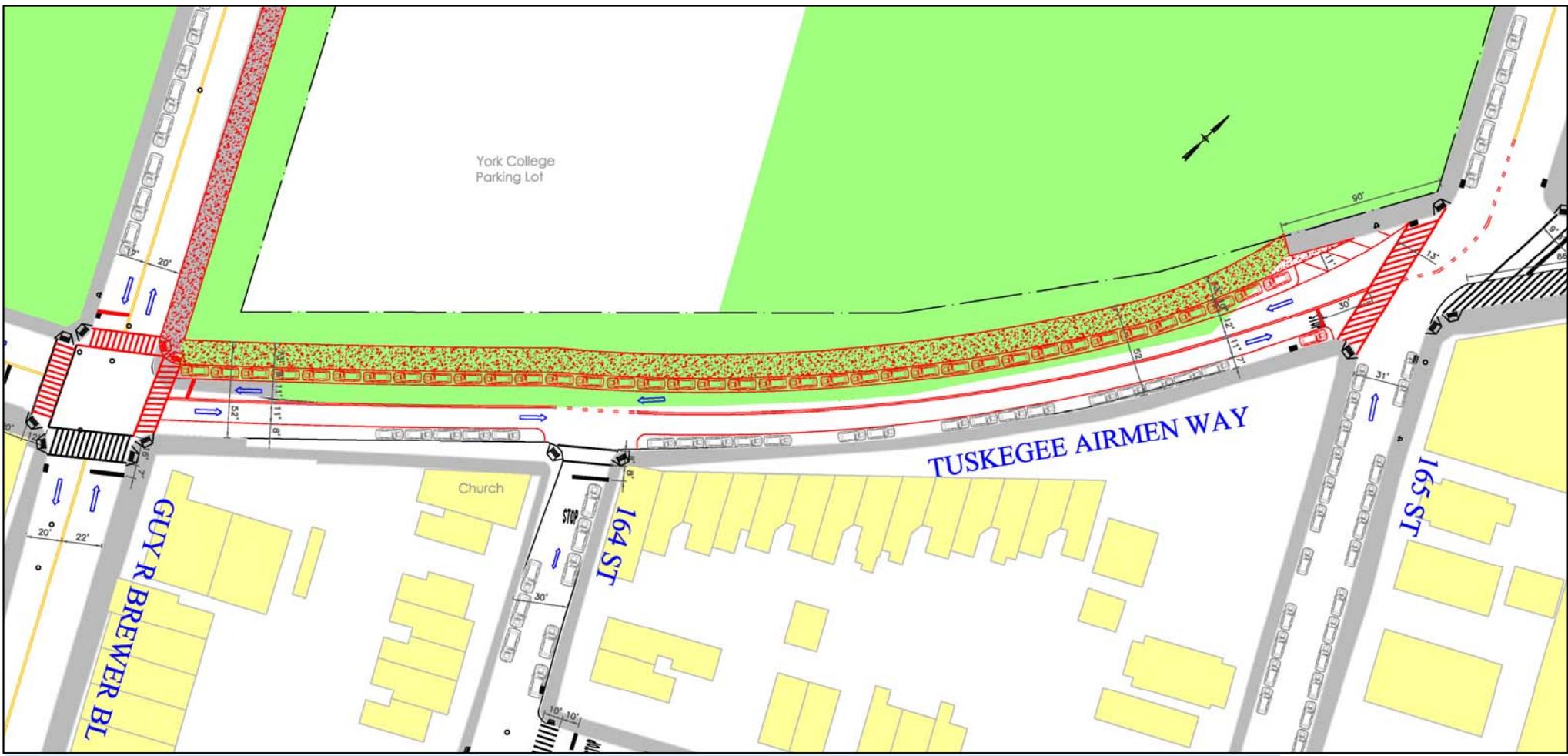
# SOUTH ROAD – GUY R BREWER BLVD TO 165 ST ROADWAY RECONSTRUCTION



Issue(s):

- Narrow under developed roadway without sidewalk

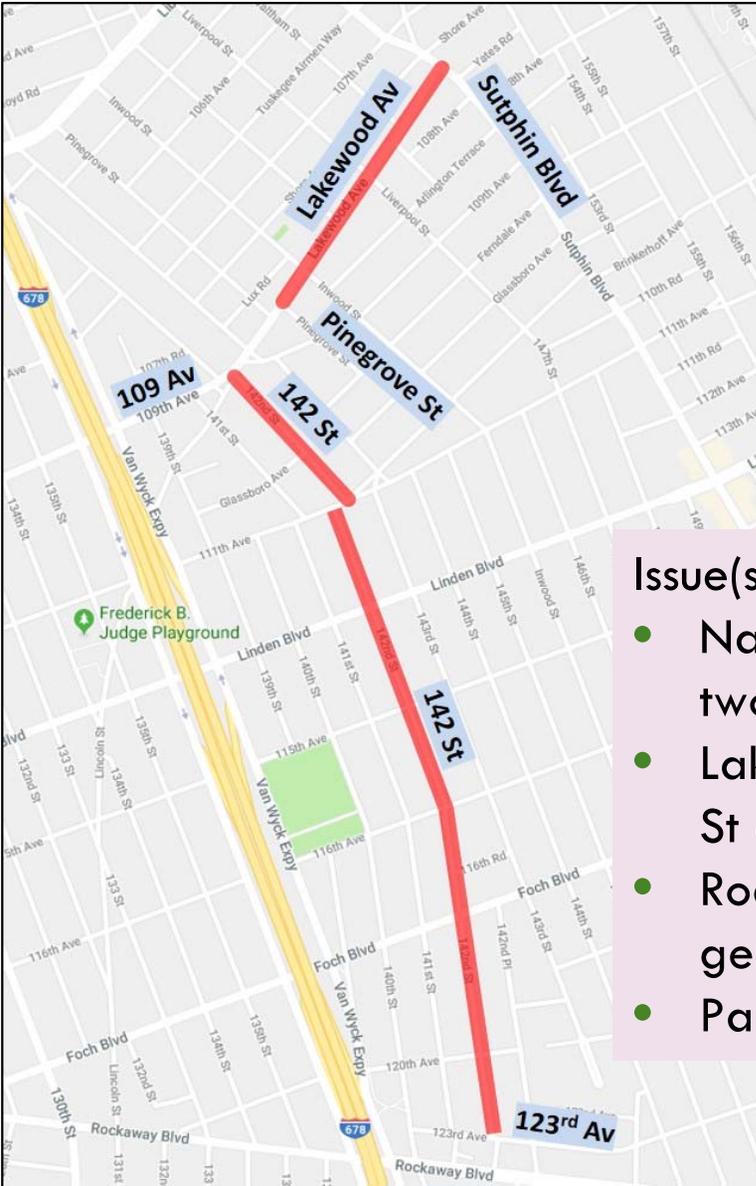
# SOUTH ROAD - GUY R BREWER BLVD TO 165 ST ROADWAY RECONSTRUCTION



- Improvement:
- Reconstruct roadway to appropriate width with sidewalk on north curb
  - Identified for capital project

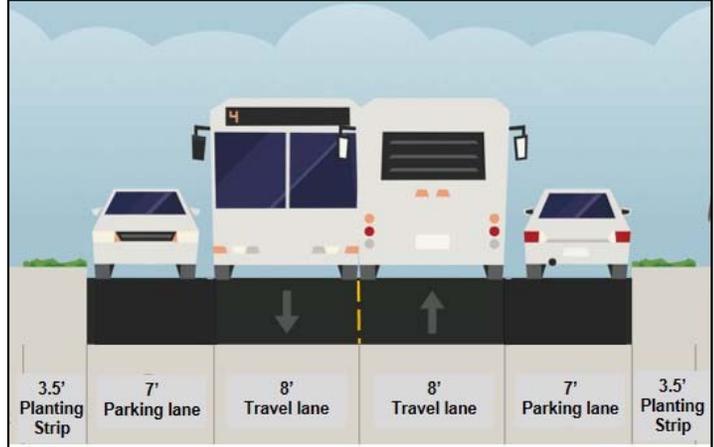
# Q40 BUS ROUTE IMPROVEMENT CONCEPT

## LAKEWOOD AVE & 142 ST

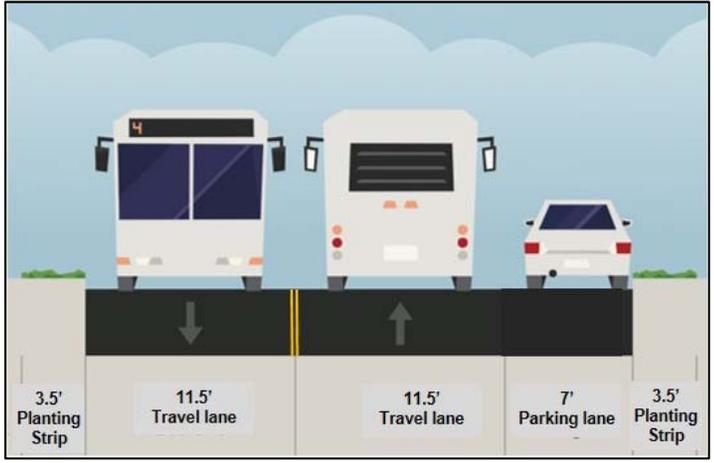


- Issue(s):
- Narrow roadway with two-way bus routes
  - Lakewood Ave and 142 St are bus routes (Q40)
  - Roadway width is generally less than 30'
  - Parking on both sides

EXISTING



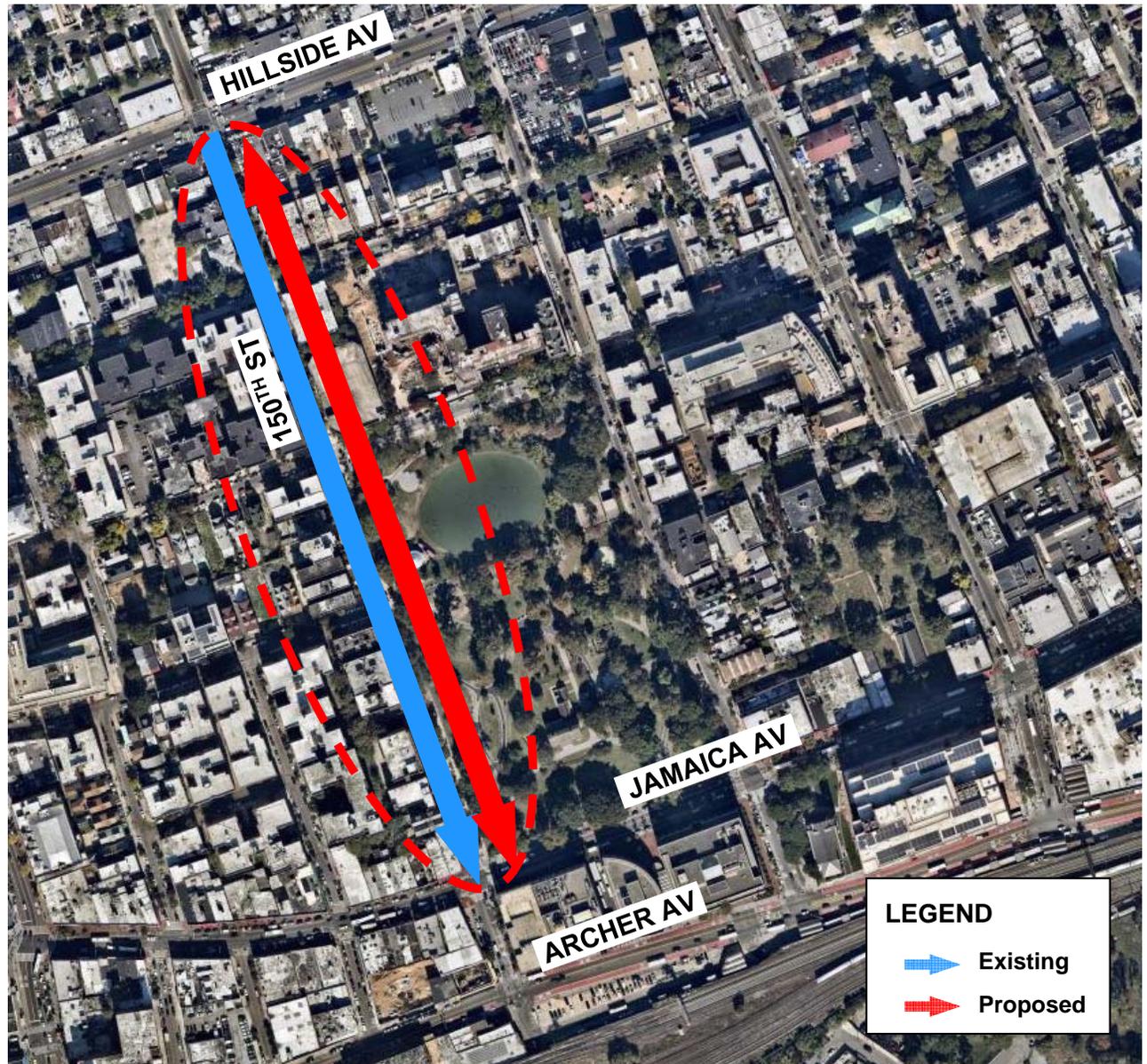
PROPOSED



# 150 STREET – TWO-WAY CONCEPT HILLSIDE TO JAMAICA AVE

## Issue(s):

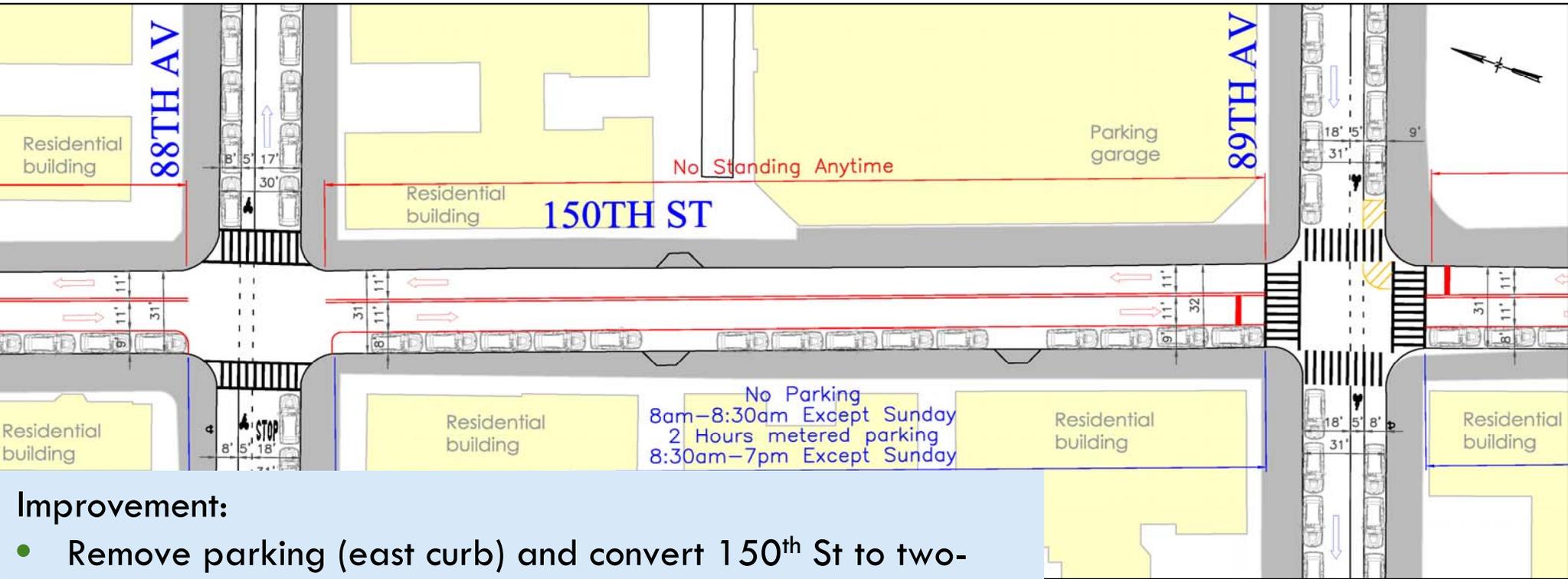
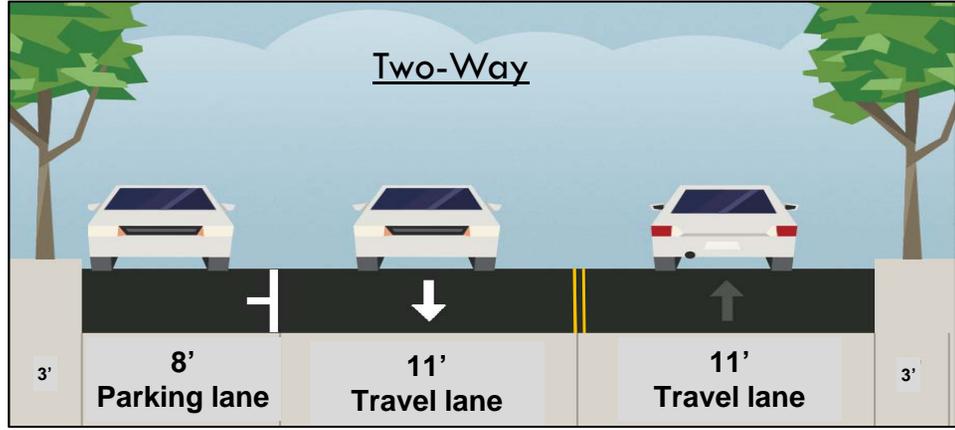
- Limited north-south through streets



## LEGEND

- Existing
- Proposed

# 150 STREET – TWO-WAY CONCEPT (CONT'D)



**Improvement:**

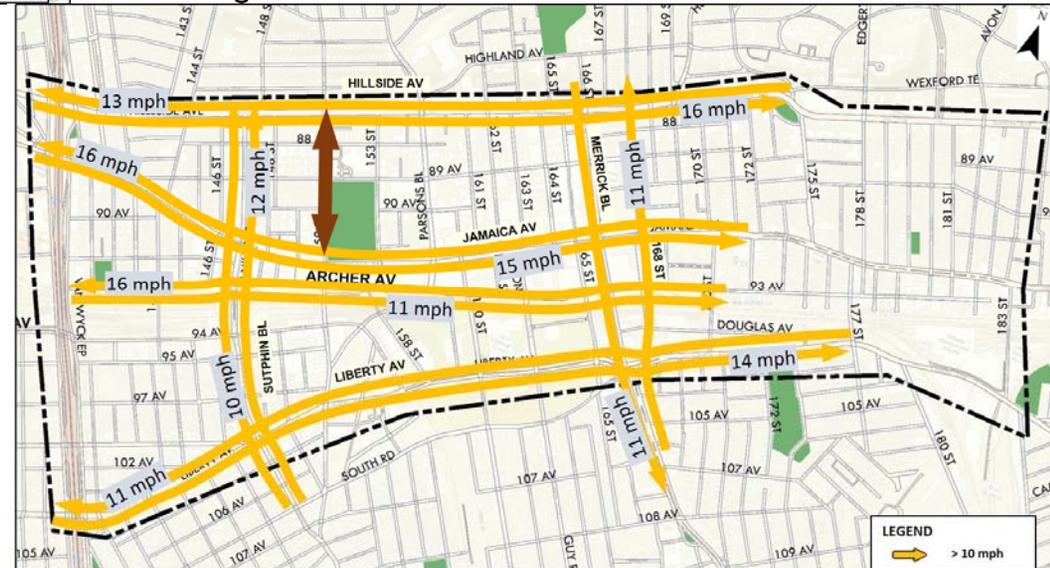
- Remove parking (east curb) and convert 150<sup>th</sup> St to two-way operation from Hillside Ave to Jamaica Ave

# CORRIDOR AVERAGE TRAVEL SPEED - PM

## Existing Conditions



## Existing Conditions with 150<sup>th</sup> Street Conversion



- The conversion of 150<sup>th</sup> Street (Hillside Ave to Jamaica Ave) from one-way to two-way would result in improved travel conditions

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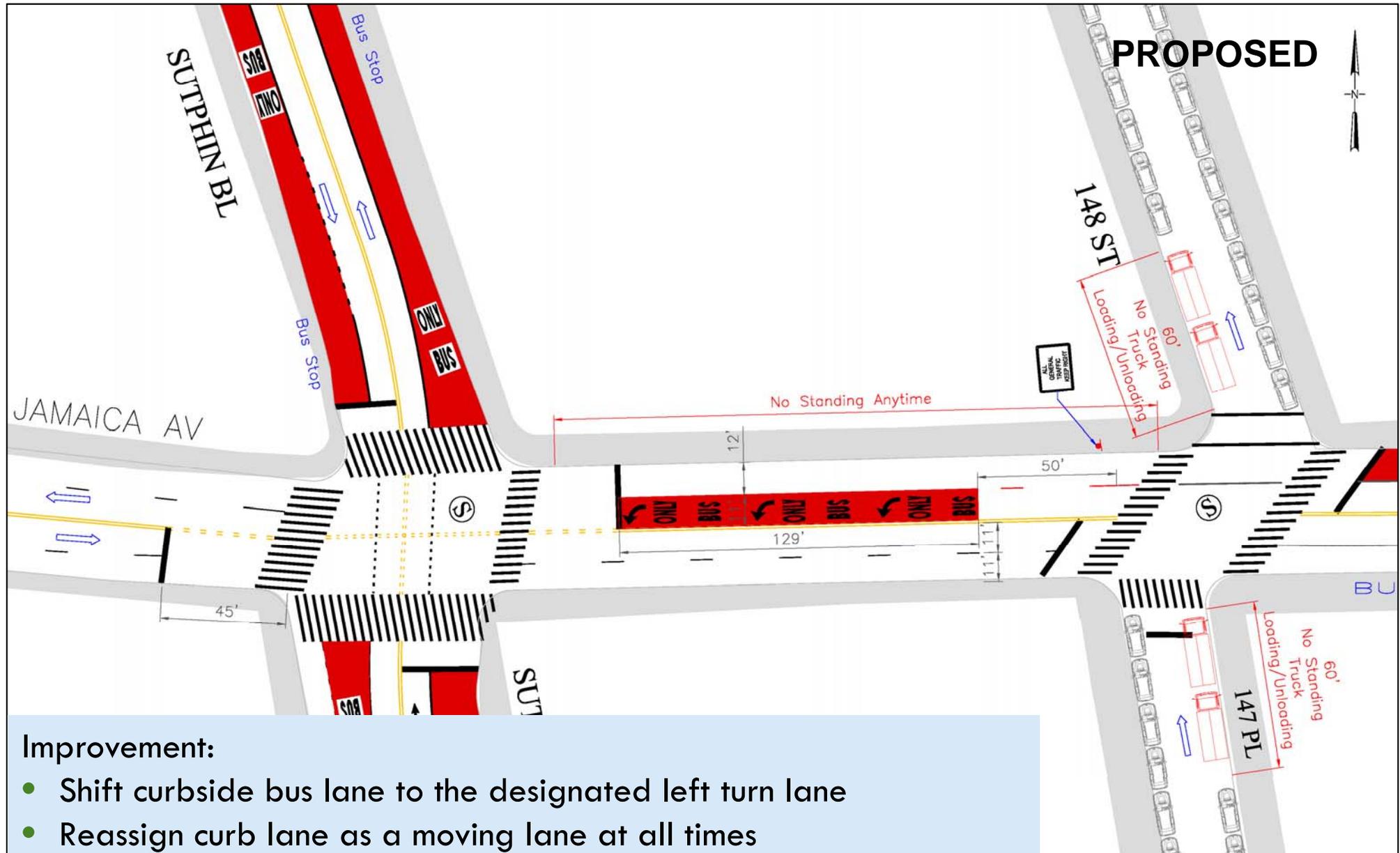
# 2018 Street Improvement Projects

1. Jamaica Ave/Sutphin Blvd Transit Operation Improvements

# 4b



# JAMAICA AVE – SUTPHIN BL TO 148 ST



## Improvement:

- Shift curbside bus lane to the designated left turn lane
- Reassign curb lane as a moving lane at all times
- Provide truck loading/unloading on 148 St/147 Pl (side streets)





# NEXT STEPS

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- Final Report – June 2018
- Project Feasibility Checks/Implementation

# THANK YOU!

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## Questions?



NYC DOT



NYC DOT



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NYC DOT