

# Hillside Avenue Bus Priority Improvements

Springfield Blvd to Queens Blvd  
Community Board 8 – May 29<sup>th</sup>, 2025



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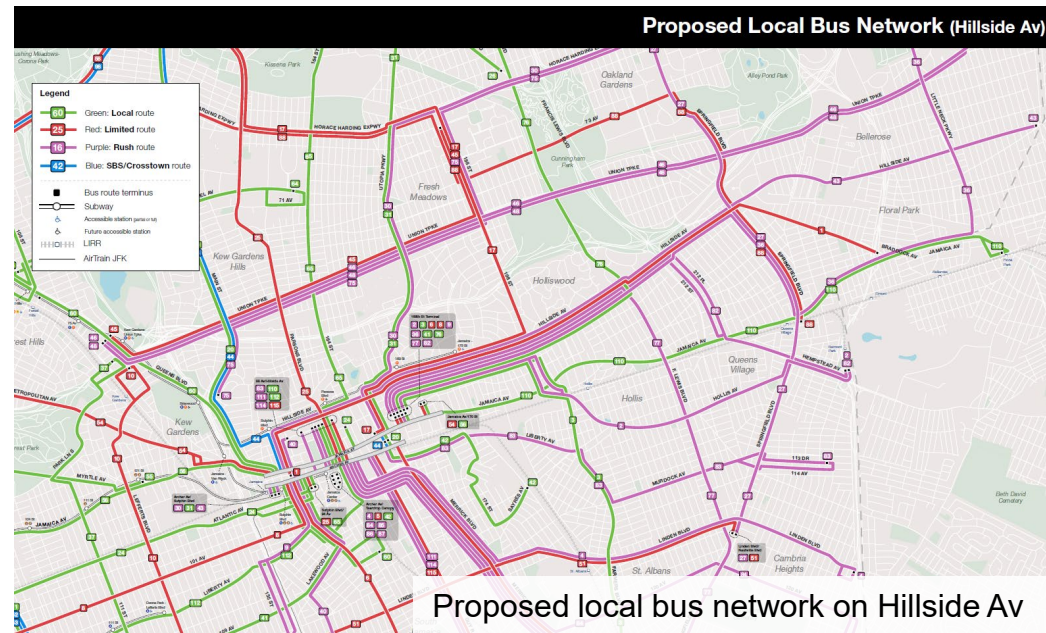
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# Summary and Work to Date

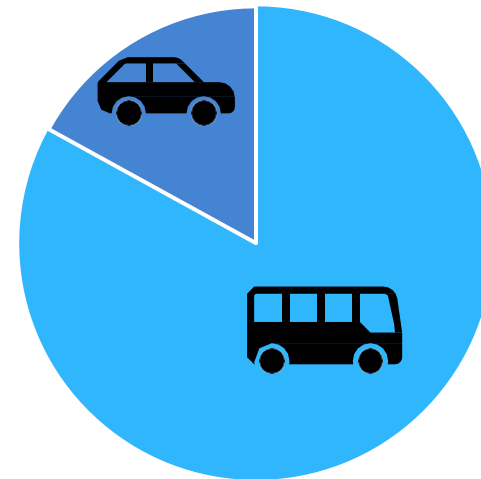
# 1

# Why Hillside Avenue?

- Springfield Blvd to Queens Blvd (4.2 miles)
- 194,000 daily bus passengers on 17 MTA bus routes and 21,000 on 5 Nassau County (NICE) bus routes
- Connections to **E** **F** **J** **Z** , LIRR, AirTrain, additional bus routes
- Buses as slow as 4 mph
- 60% of nearby residents take transit to work
- 40% of nearby households don't have access to a private vehicle
- Bus passengers account for 83% of roadway users, but buses are allocated less than 1/3 of the roadway itself

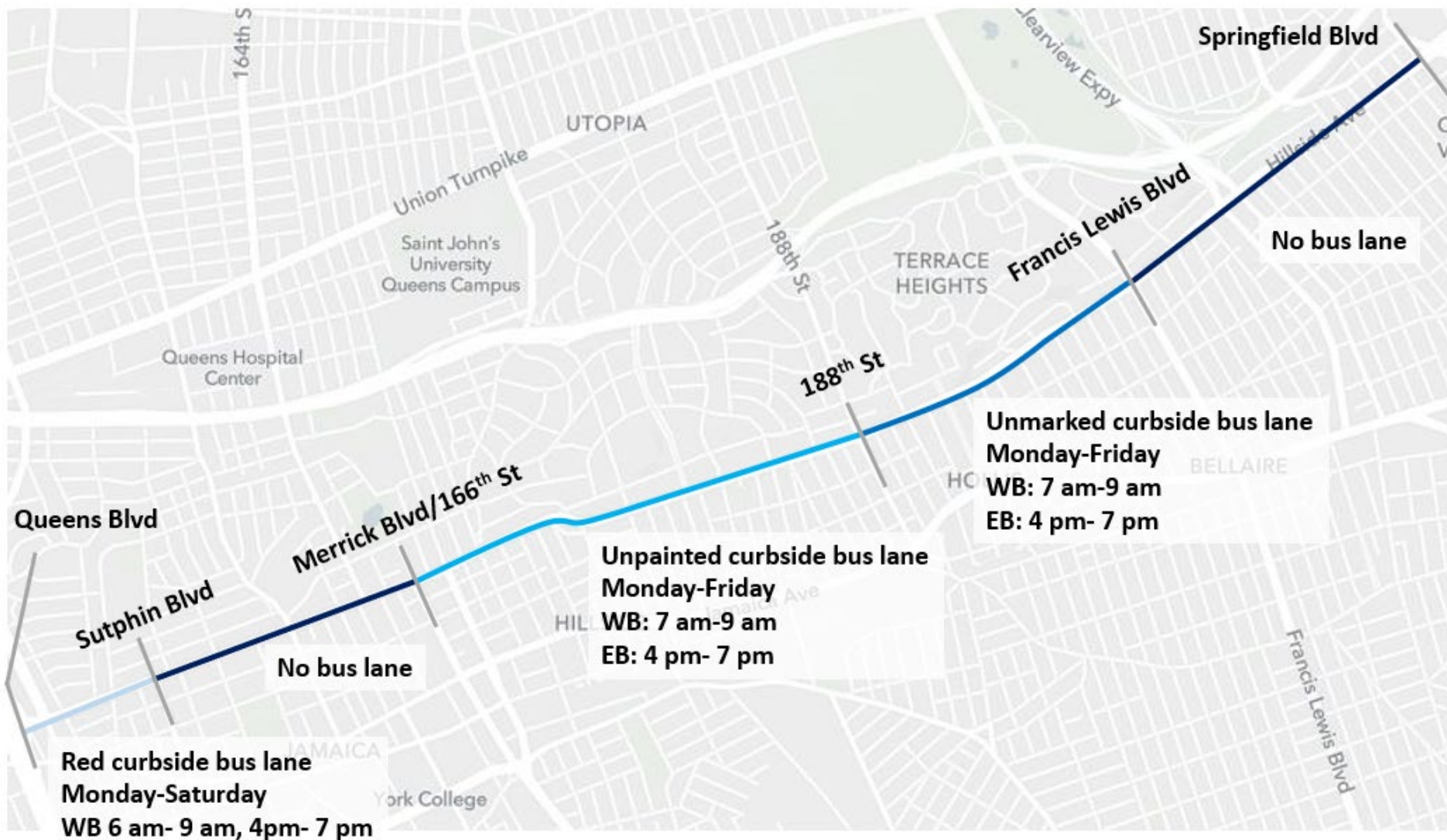


Roadway Users on Hillside Av





# Existing Conditions



## Existing Conditions Challenges

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- Bus lanes are inconsistent
- Unmarked bus lanes not visible to drivers or pedestrians
- Double parking blocks bus lanes, contributes to congestion
- Bus lanes frequently blocked by illegal loading and parking, forcing buses to merge in and out of lane



## Work to Date

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1. Pedestrian Intercept Surveys (3 days) – April 2024
2. Bus Rider Surveys (3 days) – April 2024
3. Briefing to Elected Officials – Existing Conditions – May 2024
4. Community Board 8 Transportation Committee – Existing Conditions – May 2024
5. Community Board 12 Transportation Committee – Existing Conditions – June 2024
6. Community Board 13 Transportation Committee – Existing Conditions – June 2024
7. Merchant Surveys (7 days) – July/August 2024
8. Briefing to Local Stakeholders – Existing Conditions – August 2024
9. Transfer at Jamaica Exhibit Opening – August 2024
10. Briefing to Elected Officials – Draft Proposal – January 2025
11. Community Board 8 Transportation Committee – Draft Proposal – January 2025
12. Community Board 12 Transportation Committee – Draft Proposal – February 2025
13. Community Board 13 Transportation Committee – Draft Proposal – February 2025
14. Briefing to SS Comrie's Office – Draft Proposal – February 2025
15. Briefing to CM Lee's Office – Draft Proposal – March 2025
16. Briefing to NYC Dept. of Small Business Services – Draft Proposal – April 2025
17. *Community Board 12 Transportation Committee – Final Proposal – May 2025*
18. *Community Board 13 Transportation Committee – Final Proposal – May 2025*
19. *Community Board 8 Transportation Committee – Final Proposal – May 2025*



# On-Street Engagement by the Numbers



**295** Total In-Person Surveys  
**158** Surveys Completed in Bangla, Spanish, and Haitian Creole



**145** Digital Self-Administered QR Code Surveys



**420** Businesses Visited



**30** Testimonials Collected





# What We've Heard

## *Your Feedback*

## *Our Response*

### Traffic Congestion

- Detailed traffic analysis to determine potential effects of lane reduction
- Adjustments to design of project to ensure efficient traffic movements
- Monitoring plan to identify, minimize any negative effects

### Parking

- Adding ~650 parking/loading spaces across Hillside Av, where peak hour no standing regulations are currently in effect

### Local Business Access

- Curb access is improved or maintained as-is on every block

### Loading Needs

- Install loading zones where appropriate for efficient curb management

### Enforcement

- DOT stationary cameras and ACE on-bus cameras to enforce bus lane
- Coordinating with NYPD for in-person enforcement

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# Final Project Proposal

# 2

# Proposed Design

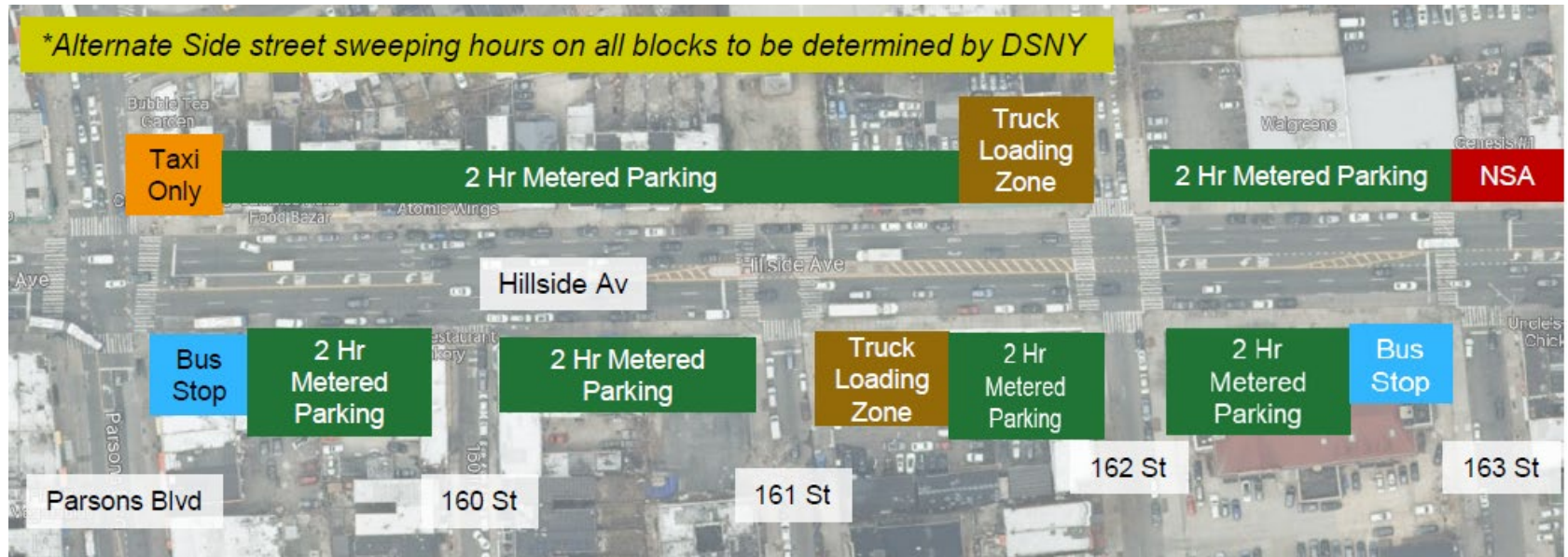
- Offset bus lanes for most of the corridor
  - Offset bus lanes are located one lane away from the curb, next to the parking lane
  - Westbound: offset bus lanes from Springfield Blvd to 143<sup>rd</sup> St, curbside bus lane approaching 188<sup>th</sup> St and between 143<sup>rd</sup> St and 139<sup>th</sup> St
  - Eastbound: offset bus lane from 144<sup>th</sup> St to Springfield Blvd
  - Bus lane drops approaching Queens Blvd, and 212<sup>th</sup> St WB
- Extended bus lane hours to 24/7
  - 15,000+ bus passengers overnight (10pm- 5am)
  - 80,000+ bus passengers on weekends
- Bus and truck only left turns at three intersections
  - Westbound left onto 169<sup>th</sup> St
  - Westbound left onto Merrick Blvd
  - Westbound left onto Sutphin Blvd
- Offset bus lanes serve as right turn, driveway, and parking access lanes, keeping traffic moving



# Proposed Design – Curb Regulations

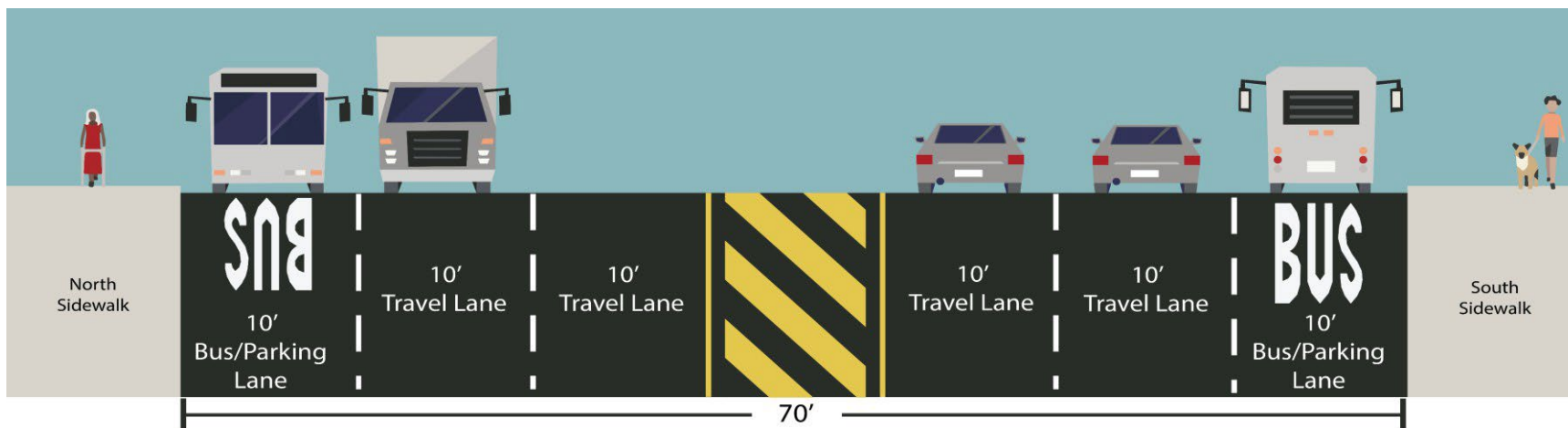
- Existing: No Standing during peak hours on most of the corridor
  - WB: 7-9 am No Standing
  - EB: 4-7 pm No Standing
- Proposed: add ~650 parking and loading spaces
  - Expand existing regulations (metered parking, free parking) into previously No Standing hours
  - Add Truck Loading Zones in highly commercial areas
- Bus stops remain, buses will continue pulling to the curb to pick up and drop off passengers

*Draft curb regulations plan*

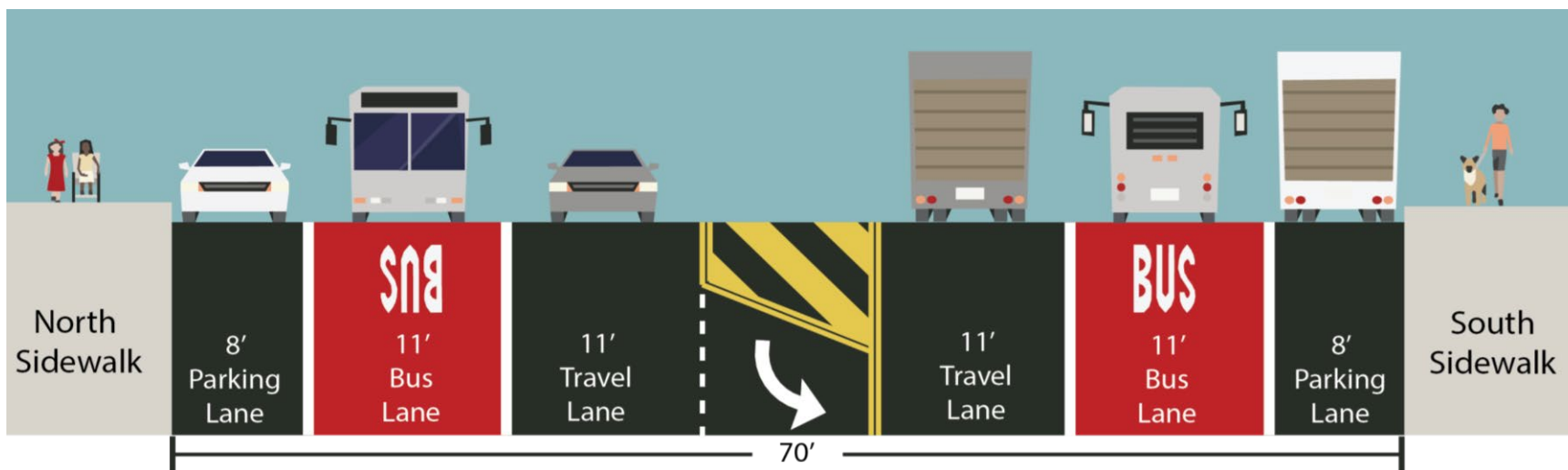




# Existing Condition vs. Offset Bus Lanes – Cross Section



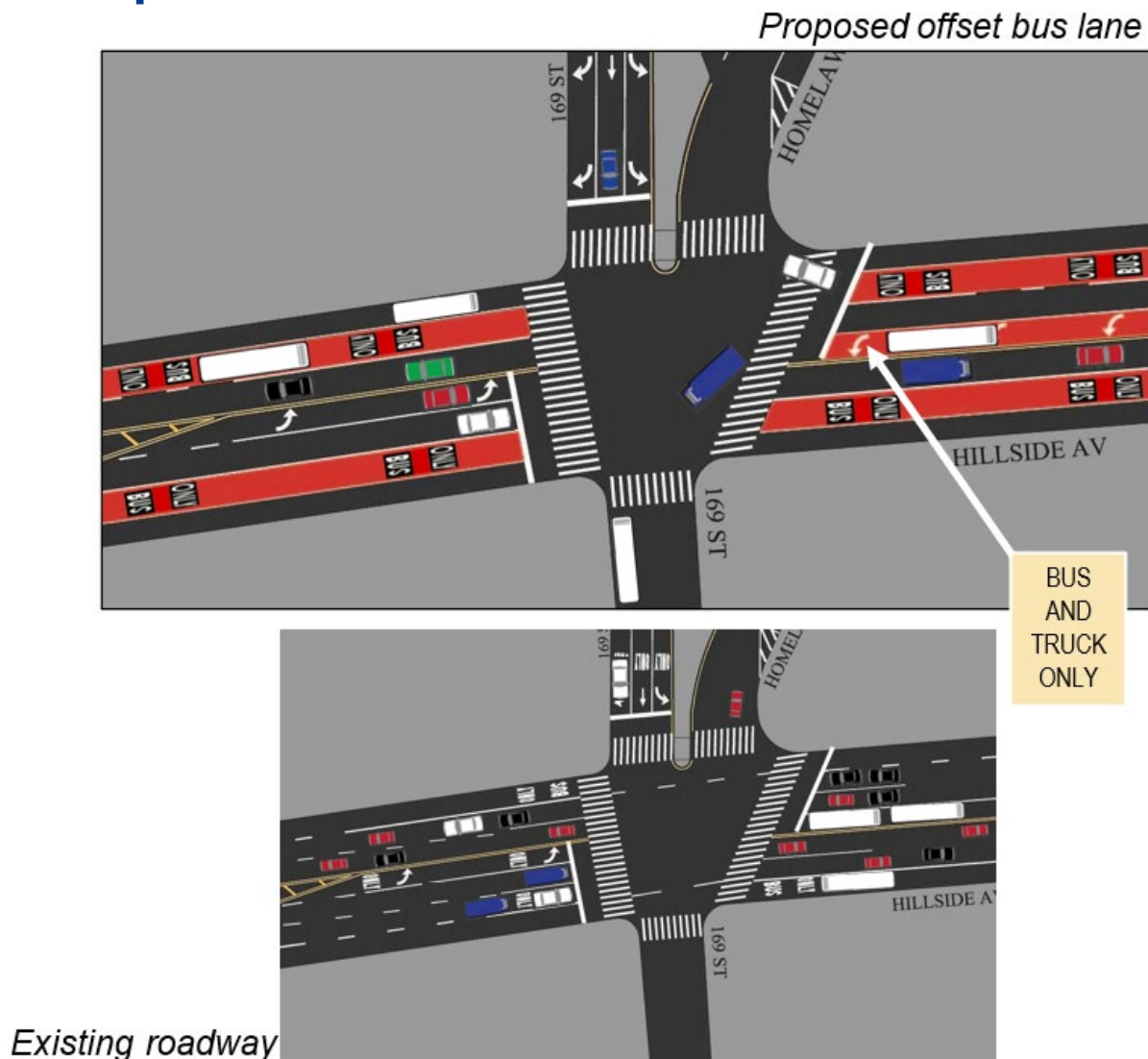
*Existing condition on Hillside Avenue*



*Proposed offset bus lanes on Hillside Avenue*

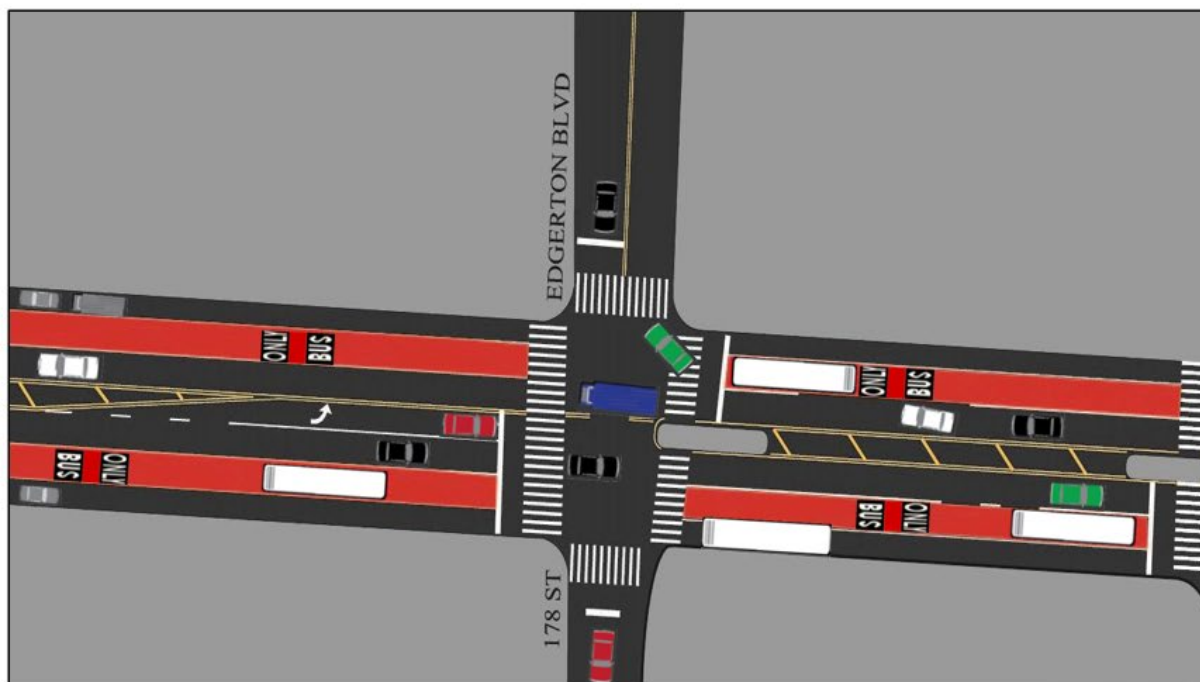
## 169<sup>th</sup> St Intersection – Sample Offset Plan

- Bus and truck only left turn from westbound Hillside Av onto southbound 169<sup>th</sup> St
- Typical offset bus lane
- Curb space used for parking/loading



## 178<sup>th</sup> St/Edgerton Blvd Street Intersection – Sample Offset Plan

- Typical offset bus lane
- Curb space used for parking/loading



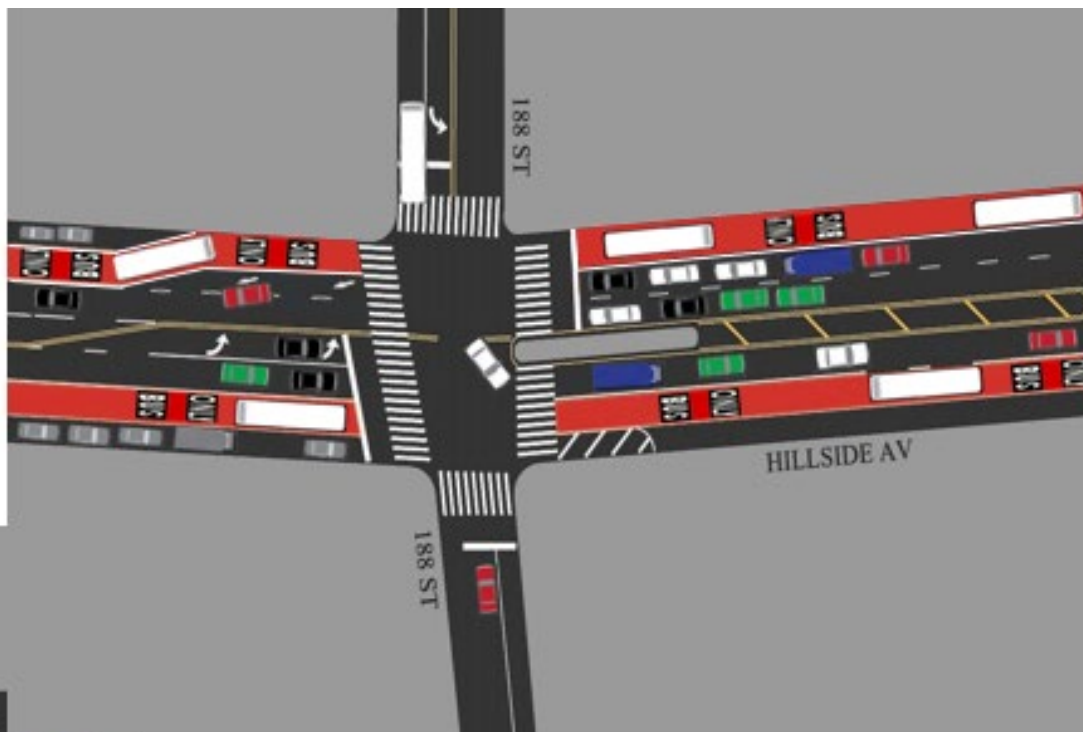
*Proposed offset  
bus lane*



*Existing roadway*

## 188<sup>th</sup> St Intersection – Sample Offset Plan

- Typical offset bus lane
- Bus lane shifts to curbside in westbound direction between 189<sup>th</sup> St and 188<sup>th</sup> St to maximize traffic flow at this busy intersection
- Curb space used for parking/loading, bus stop



*Proposed offset bus lane*

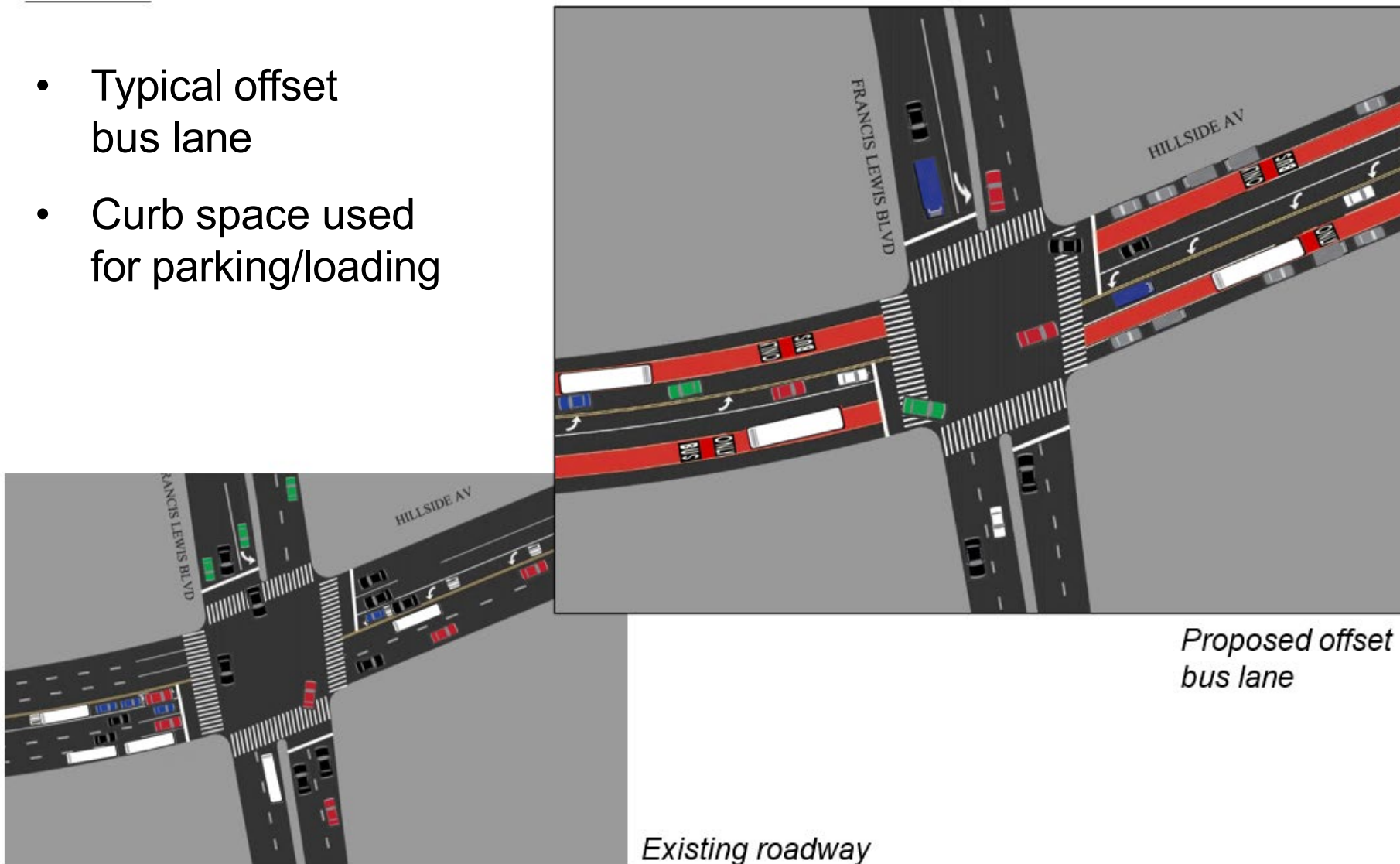


*Existing roadway*



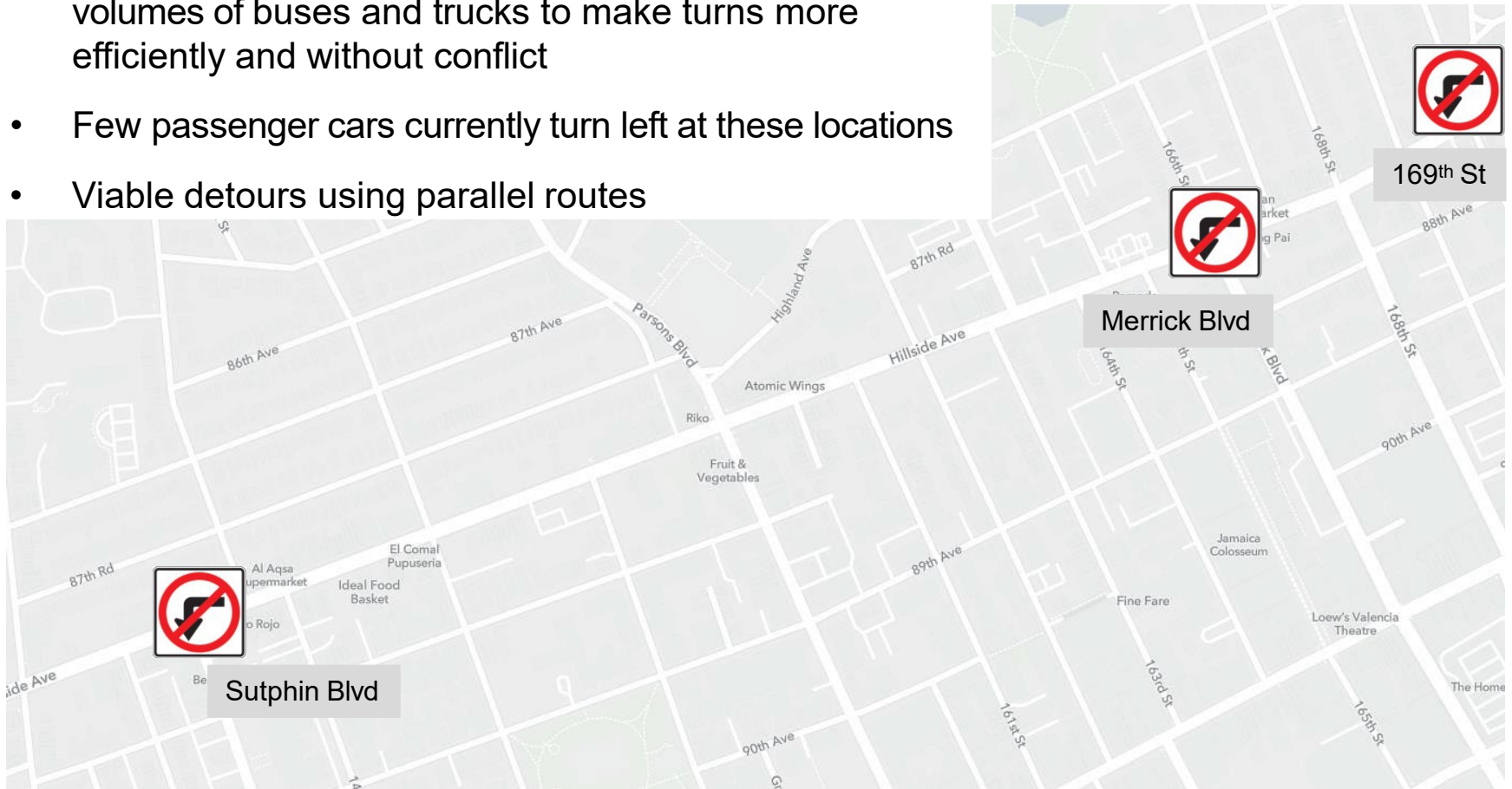
## Francis Lewis Blvd – Sample Offset Plan

- Typical offset bus lane
- Curb space used for parking/loading



# Proposed Left Turn Restrictions – buses and trucks permitted

- Restricting left turns for general traffic will allow high volumes of buses and trucks to make turns more efficiently and without conflict
- Few passenger cars currently turn left at these locations
- Viable detours using parallel routes



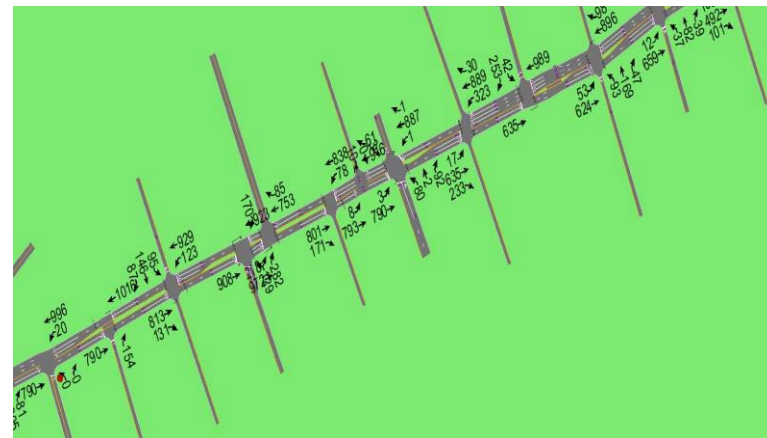
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## Traffic Analysis

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# Traffic Analysis Methodology

1. **Count traffic and pedestrians** at approx. 100 intersections on Hillside Av and nearby streets
2. **Analyze vehicle origins and destinations** with anonymized GPS data from drivers on Hillside Av, to understand likely diversion routes, with special consideration of Jamaica Av and Archer Av busways
3. **Model each intersection and analyze:**
  - Signal timing
  - Number of lanes and turning movements (left, straight, right)
  - Pedestrian volumes
  - Existing conditions and multiple potential future scenarios
4. **Validate model** with in-person observations of traffic flow, parking movements, double parking and truck loading, etc.
5. **Analyze worst case scenario**
  - Busiest hours of day, longest traffic queues
  - Realistically, some drivers divert to other routes, other modes of transportation, or choose to travel at different times of day
  - Prepare traffic analyses for a range of scenarios, from no traffic reduction up to a 40% reduction



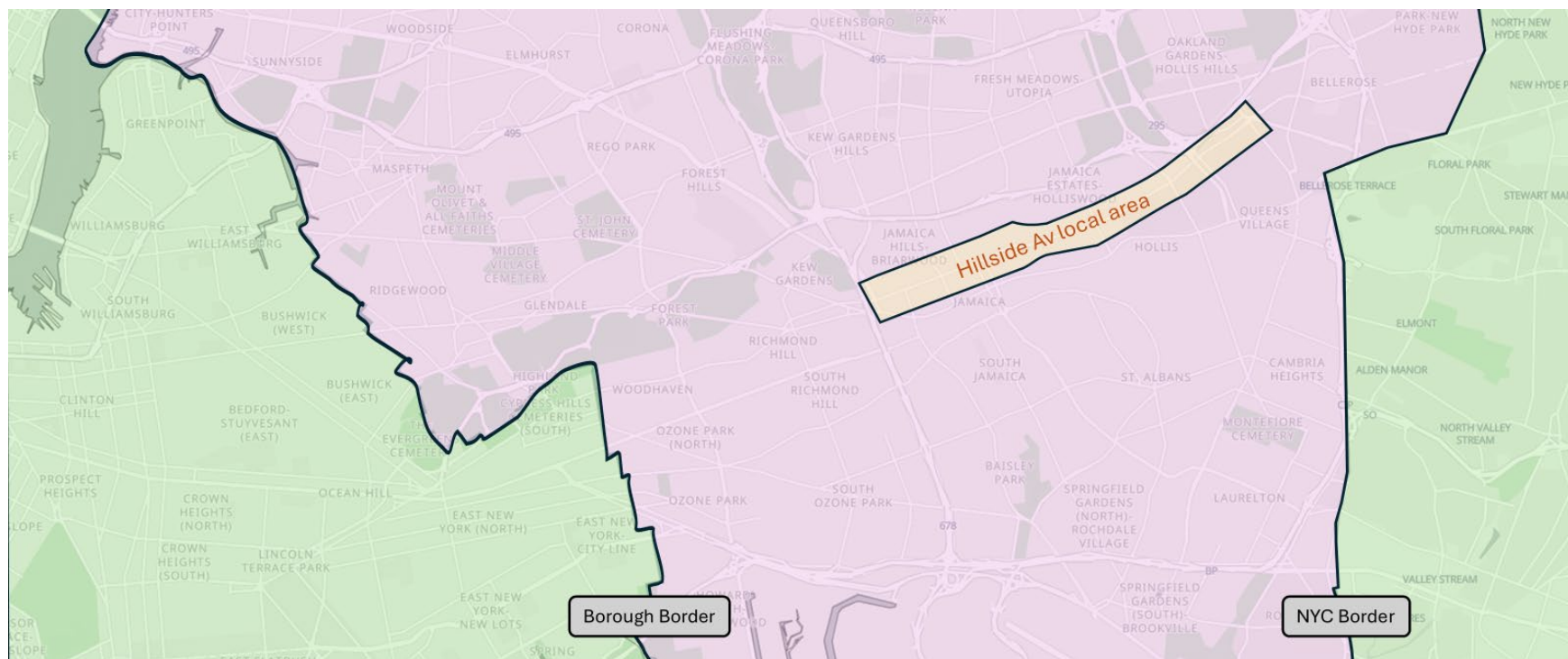
*Example of Synchro Traffic Model Network*

**Result is a prediction of the future according to engineering standards.**



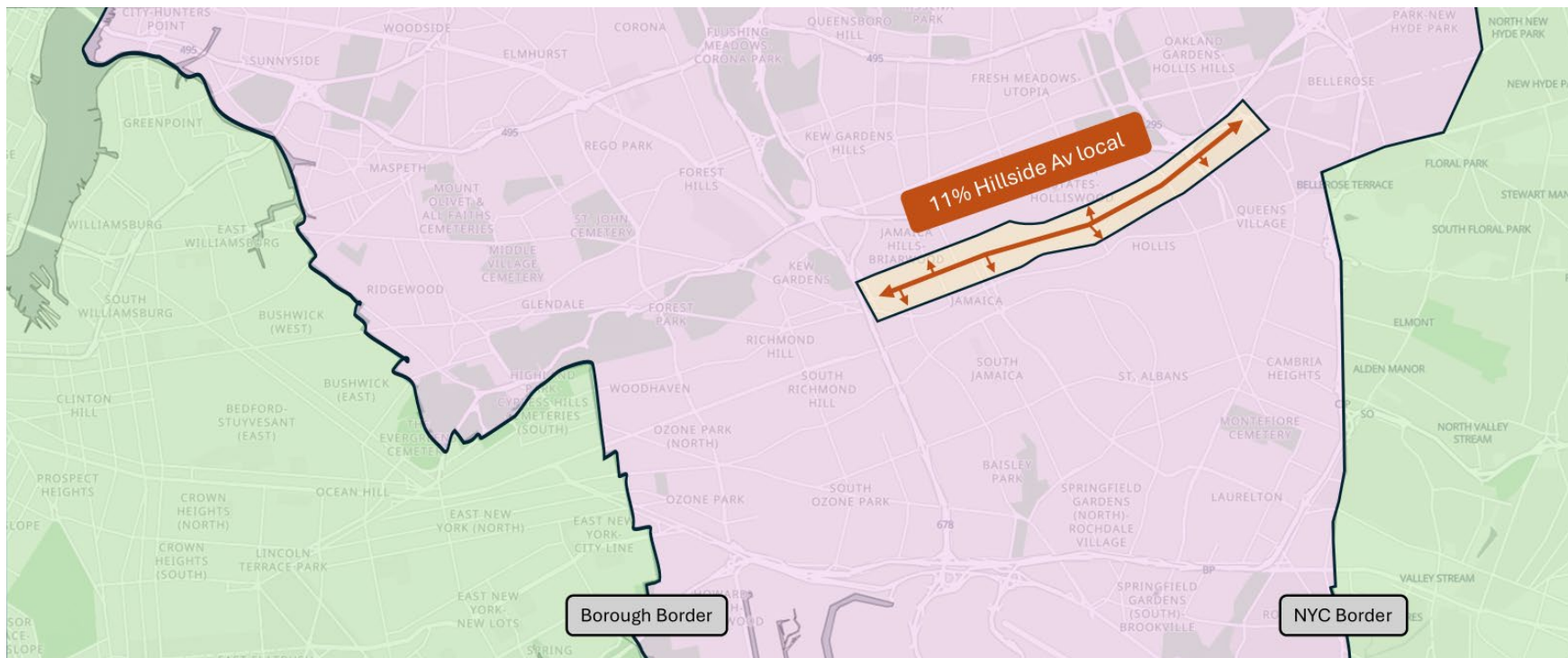
# Where are drivers who use Hillside Av going?

- Based on vehicle/app GPS data:
  - 11% of trips are between areas on or near Hillside Av
  - 42% of trips are between Hillside Av and other neighborhoods
  - 47% of trips use Hillside Av as a through route, do not stop on or near Hillside Av
- Traffic analysis anticipates some peak-hour drivers will use an alternate route, travel at a less busy time of day, or use transit or other modes of travel



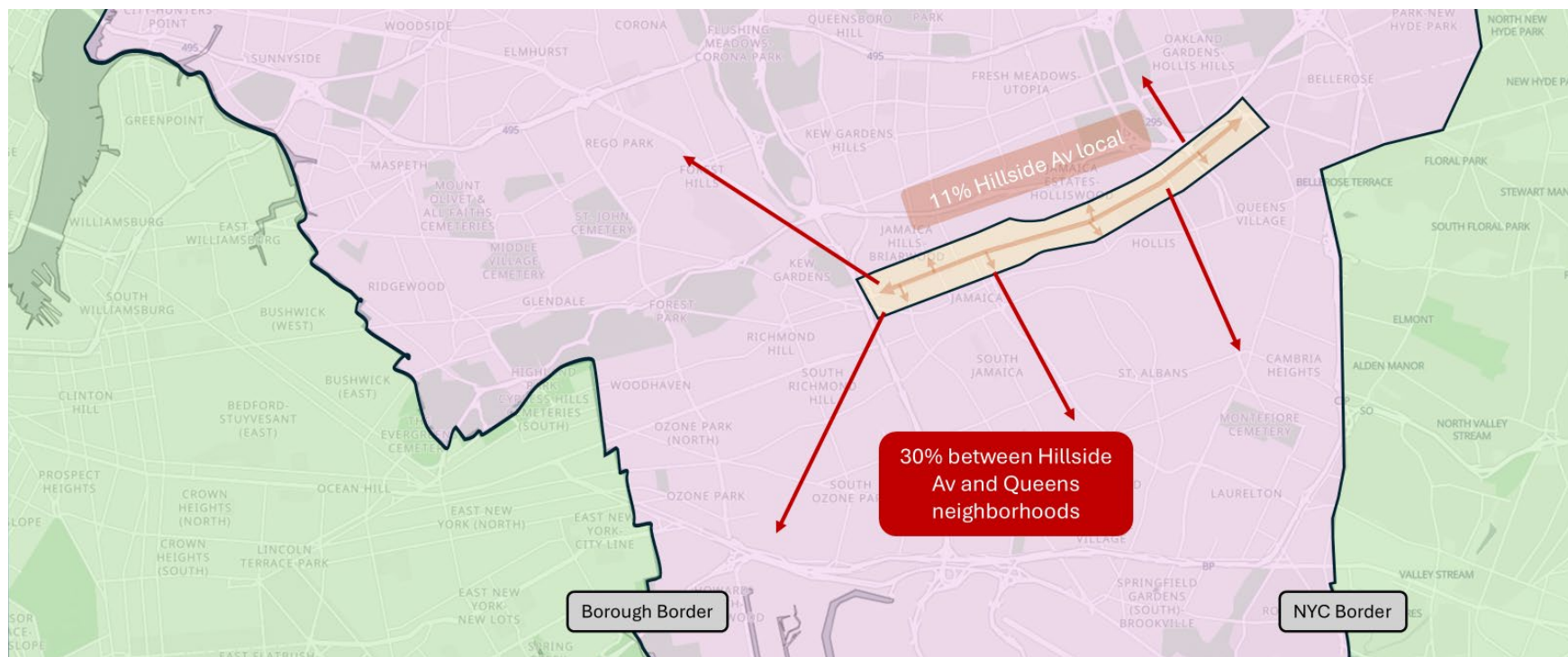
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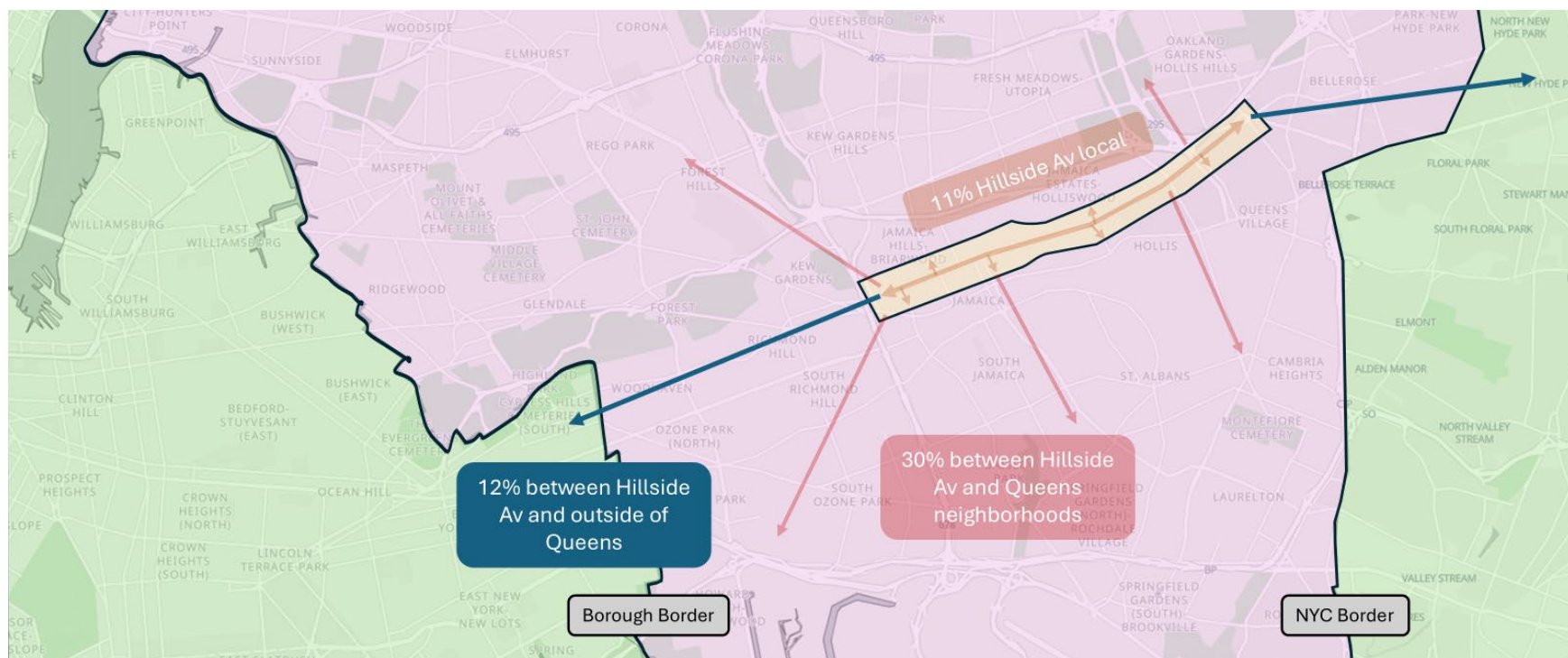
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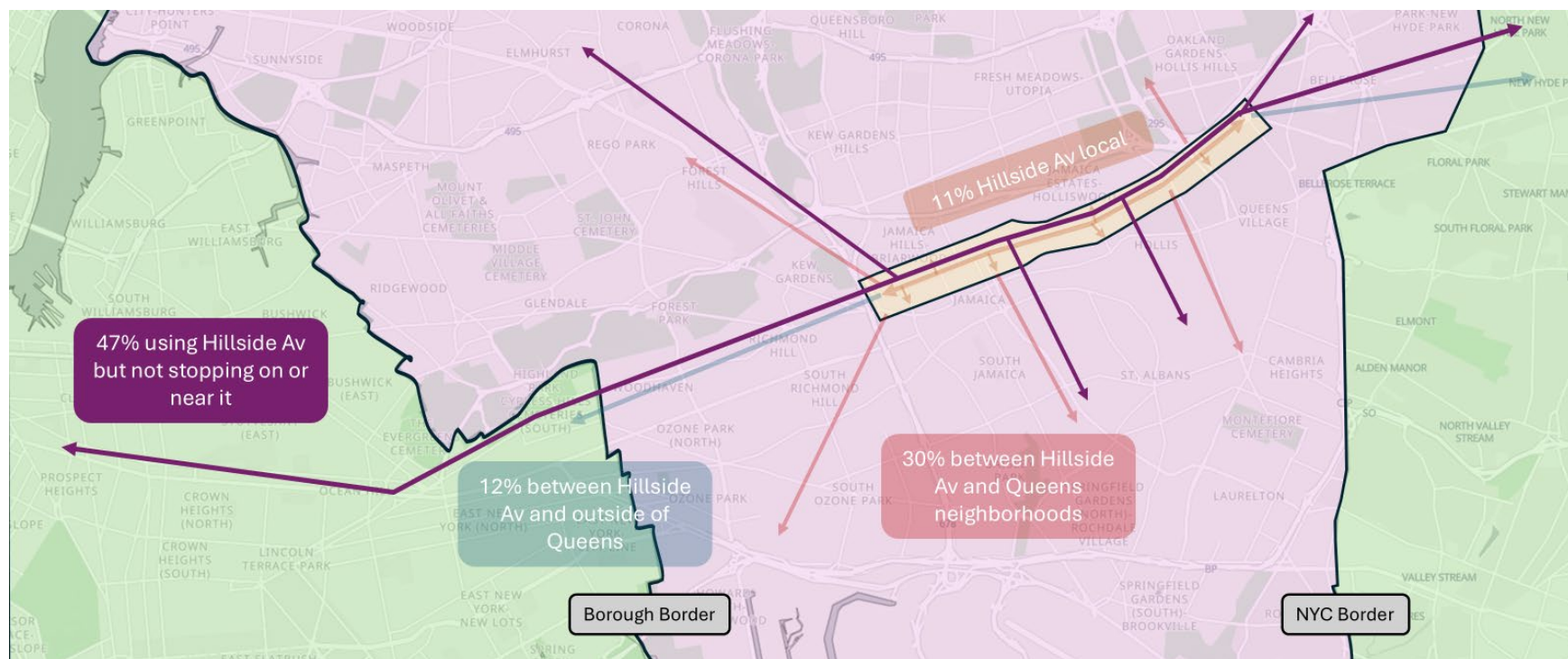
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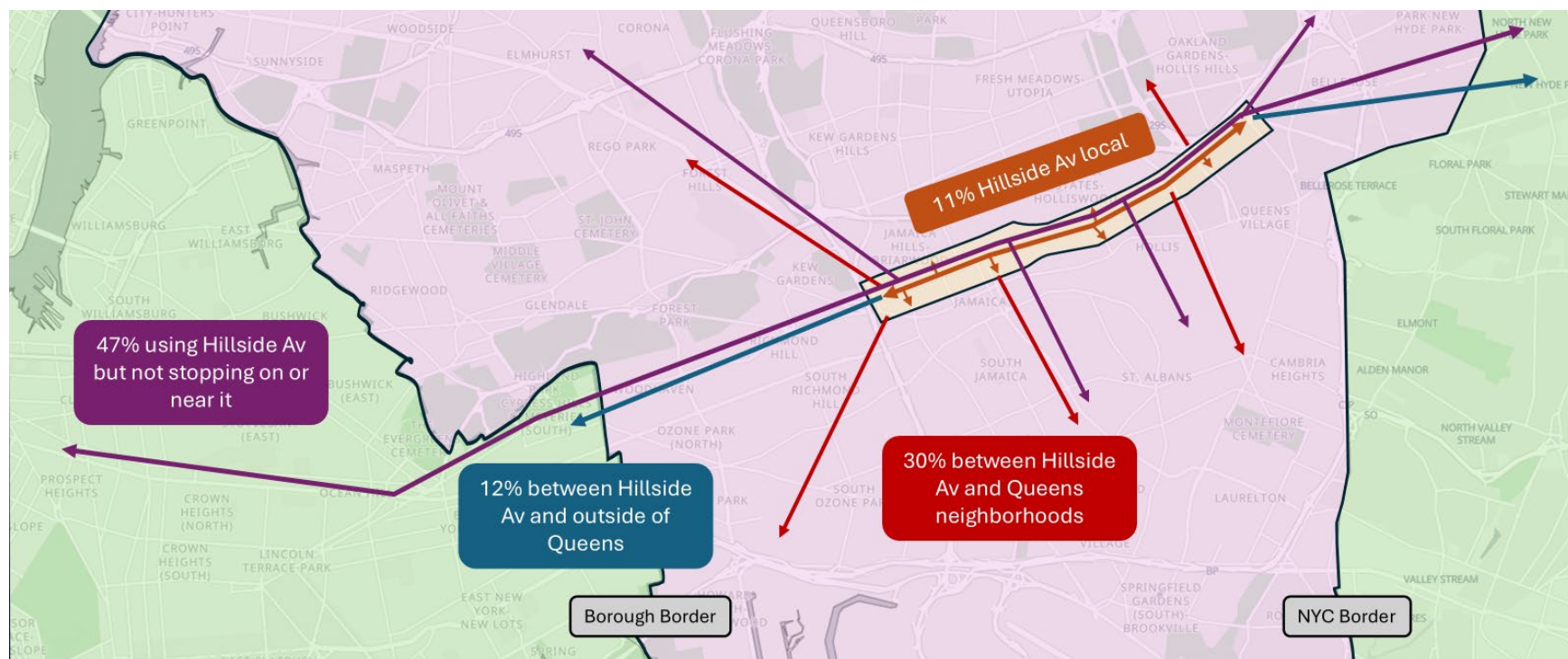
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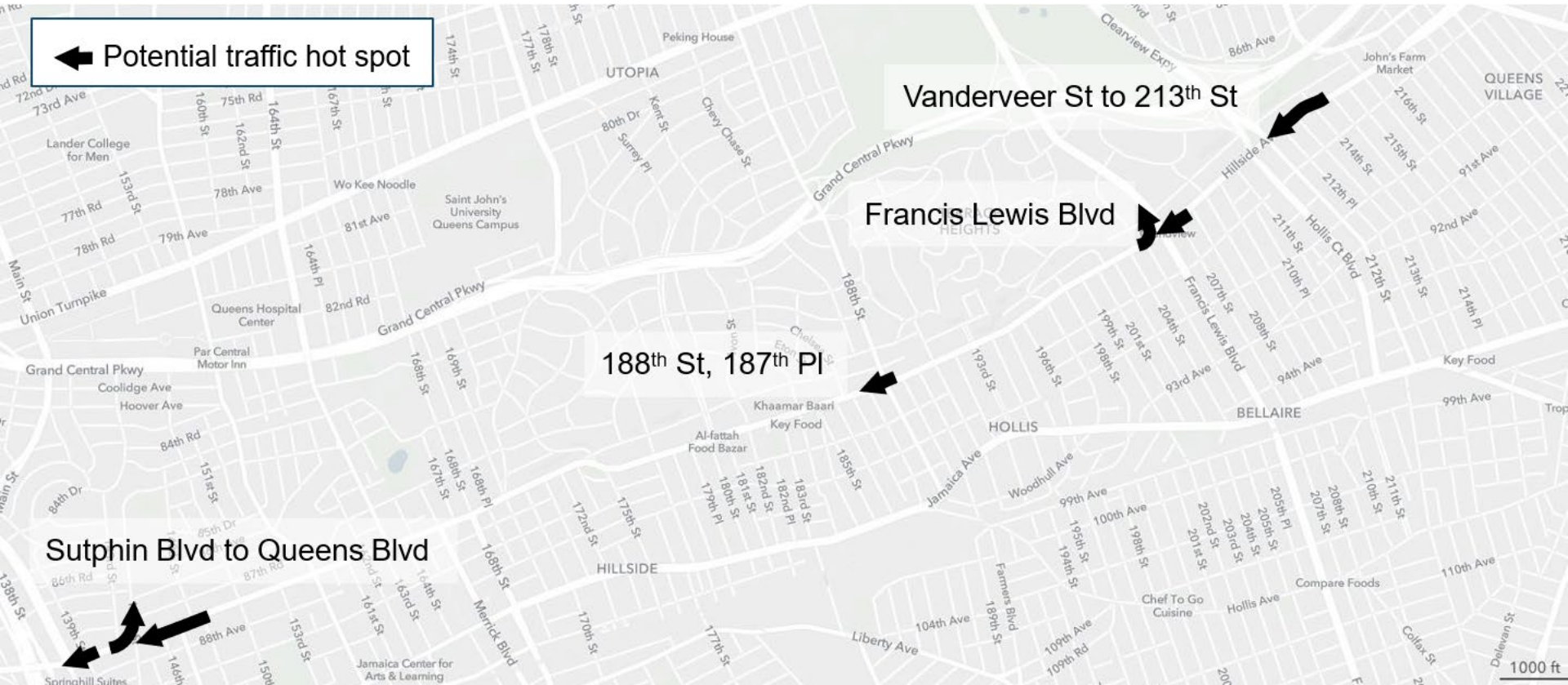


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## Potential Traffic Hot Spots



DOT has made changes to the project in response to traffic analysis and community feedback, adjustments include:

- Removing the bus lane at approaches to some major intersections
- Additional signal timing accommodations, especially at hotspots and diversion points



## Design Adjustment Example: 212<sup>th</sup> St/Hollis Ct Blvd

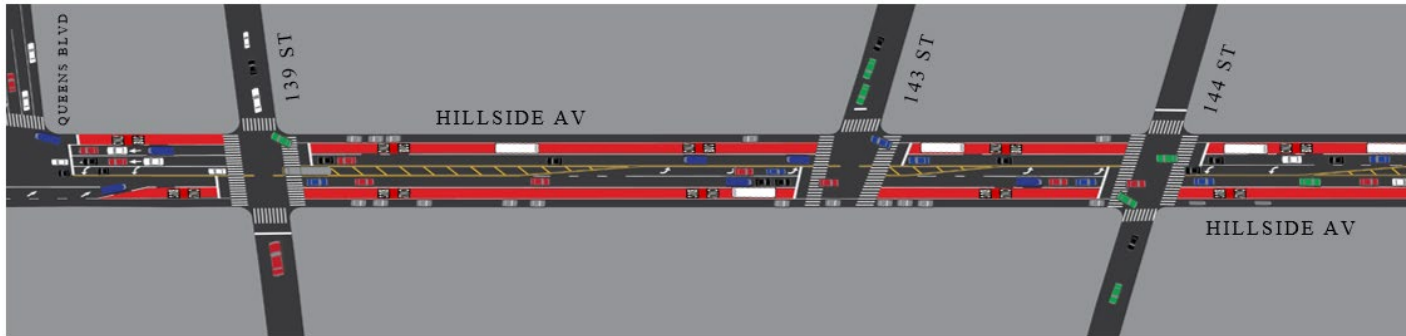
- Initial plan (right): offset bus lane through existing high traffic intersections
- Revised plan (below): offset bus lane drops at 213<sup>th</sup> St to keep traffic flowing at highway entrances, keeps existing No Standing Anytime condition





# Design Adjustment Example: Queens Blvd

Initial design: offset bus lane beginning (EB) and ending (WB) at Queens Blvd



Revised design: westbound offset bus lane shifts to curbside at 143<sup>rd</sup> St, curbside bus lane ends at 139<sup>th</sup> St. Eastbound offset bus lane begins after 144<sup>th</sup> St. Both adjustments ensure efficient flow of traffic approaching and through the Queens Blvd intersection



# Making Sure it Works: Post-Implementation Monitoring Plan

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- We will be evaluating bus and traffic speeds, traffic volumes and patterns, and congestion closely after launch:
  - In-person observations
  - StreetLight and INRIX (GPS)
  - Traffic counts
  - Bus speed & ridership data
- Adjustments can be made to alleviate congestion and improve bus performance as needed, including:
  - Signal retiming at intersections on and around Hillside Av
  - Curb regulations
  - Roadway markings
  - Signage

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## Next Steps and Discussion

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## Summary: Project Benefits

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- New, offset bus lanes for most of project corridor
  - Improves access to the subway, jobs, stores, and appointments for over 200,000 New Yorkers daily
- ~650 parking/loading spaces added during peak hours (7-9am, 4-7pm)
  - Adds additional parking and loading for hundreds of local businesses and thousands of homes
  - Includes free alternate-side parking, metered parking on commercial blocks, and loading zones on portions of the busiest blocks
- Emergency response vehicles (police, fire, ambulance, etc.), Access-a-Ride vans, school buses also use bus lanes

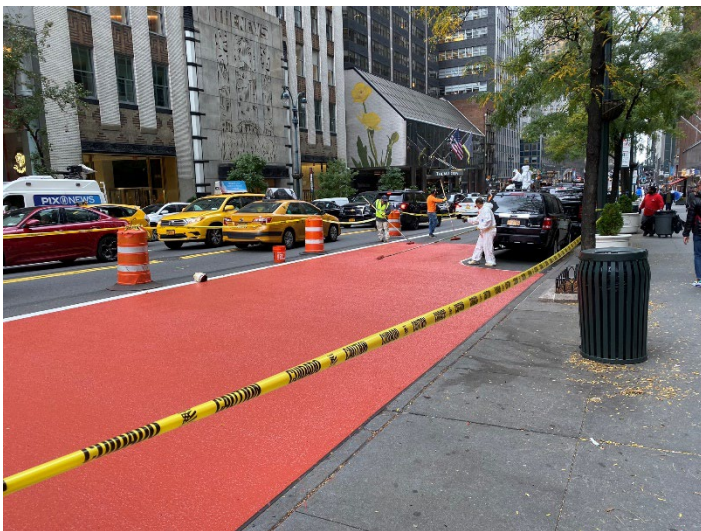


# Next Steps

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Summer/Fall 2025

- Planned implementation – signage and pavement markings installation



Fall 2025 and beyond

- Monitor project performance and adjust as needed

# Thank You!

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## Questions?



NYCDOT



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