



Evaluating Curb Cut Safety Near Schools

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Acknowledgements

- New York Metropolitan Transportation Council (NYMTC) and Center for Advanced Infrastructure and Transportation (CAIT) Rutgers
- New York City Department of Transportation (NYC DOT)
- Transportation Planning & Management (TPM)
- Research, Implementation and Safety (RIS)
- School Safety (SS)
- Columbia University
- Family and Friends

Background

Program Origin

- High-volume curb cuts (gas stations, parking lots, auto-oriented businesses, etc.) are a pedestrian safety concern
- Sites linked to multiple fatalities and injuries city-wide
 - 82 Wyckoff Ave (2018)
 - 8910 4th Ave (2021)
- Mayor Adams announced commitment to 'parking lot and gas station traffic-calming'



Source: NYC DOT

Background

Child Fatality: 82 Wyckoff Avenue, Brooklyn

- June 24, 2018: Luz Gonzalez (4) struck and killed by vehicle backing out of Clean City Laundry parking lot
- NYC Department of Buildings (DOB) ordered lot closure, barrier installation
- Lot re-opened in 2020 with refined single-point access design

Before (2018)



Interim (2019)



After (2020)



Source: Google Street View

Background

2021 Fatality: 8910 4th Avenue, Brooklyn

- Driver pulled out of car dealership lot, required driving on the sidewalk to exit
- Pedestrian struck, killed on sidewalk
- 4th Ave: multiple driveways, Right of Way (ROW) encroachments, sidewalk driving, near several schools



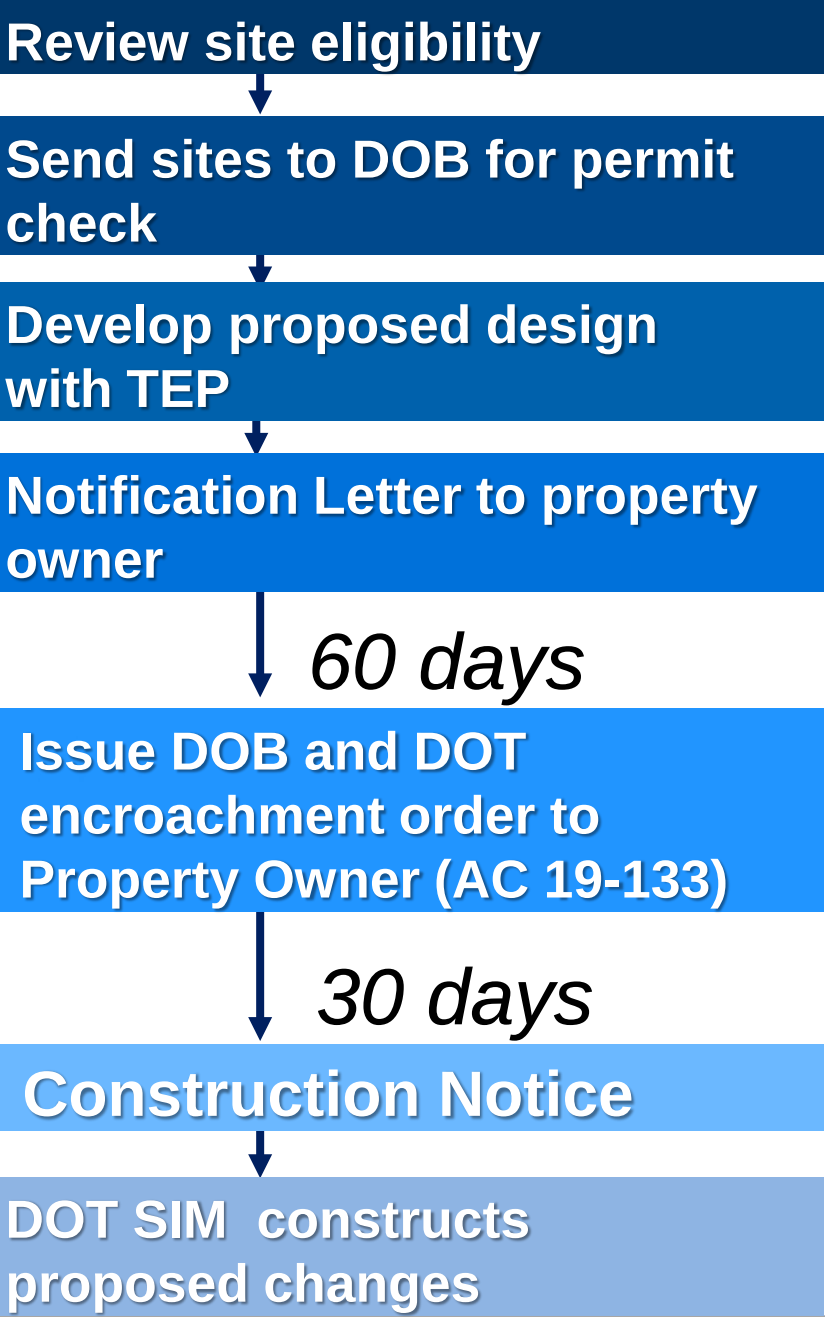
Source: Google Maps

Pilot Program

Current Process and Site Selection

Process developed with DOB, DOT Traffic Engineering and Planning (TEP), and DOT Legal team to identify, notify, and implement safety improvements at five pilot sites:

Address	Boro	Who	Status
418 Coney Island Ave	BK	BP Oil	Complete July 2024
378 Coney Island Ave	BK	DOT	Complete July 2025
4308 Ft Hamilton Pkwy	BK	DOT	Planned Fall 2025
641 E Gun Hill Rd	BX	BP Oil	In Construction
43-21 Junction Blvd	QN	BP Oil	Complete July 2024



Design Solutions

Curb Cut Design Standards

New buildings code requirement

- Curb cuts must be 50 ft from an intersection
- Curb cuts may not be longer than 30 ft
- Parking lots to be accessible via a curb cut
- Parking lots to have fencing/barrier from the sidewalk
- Exceptions to the above require approval from DOT (TEP)

Standards for improving existing sites

- Relocating curb cuts that are close to the intersections
- Closing curb cuts that conflict with bus stops
- Narrowing wide curb cuts
- Closing redundant curb cuts
- Installing back of sidewalk barriers or bollards

Treatments to Close Curb Cuts/Parking Pads

Materials



Restore Full-Height Curb



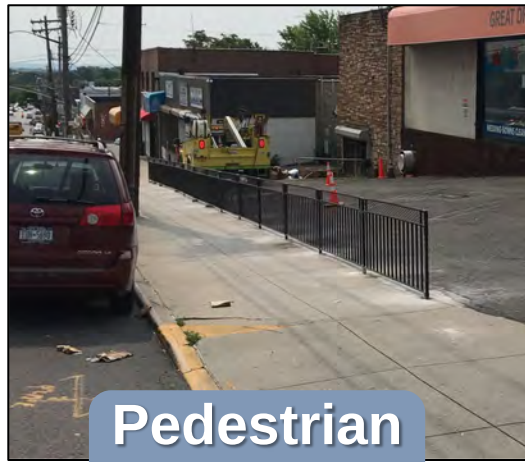
Granite Blocks



Jersey Barrier



Pipe Bollards



Pedestrian Fencing



Wheel Stops

*Source:
NYC DOT*

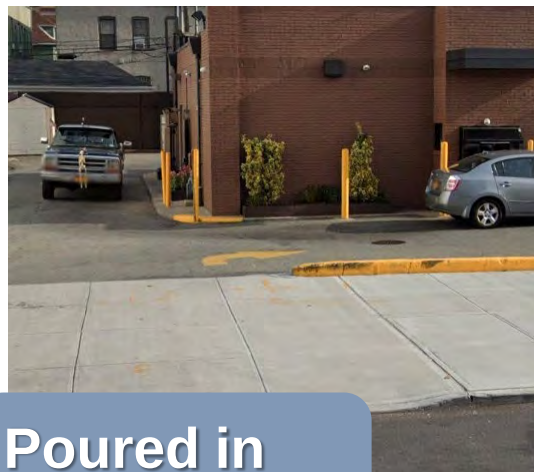
Pilot Program

Design Treatments

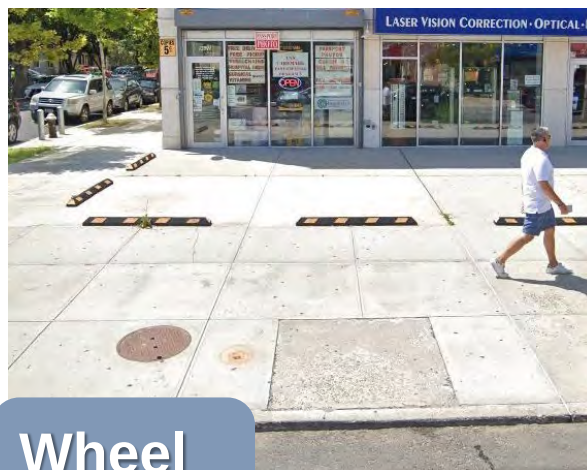
- Relocate curb cuts that are close to intersection (within 50 ft)
- Close curb cuts that conflict with bus stops
- Close redundant curb cuts (More than 1 on a frontage)
- Narrow wide curb cuts (30+ ft)
- Install back of sidewalk barriers or bollards

Source: NYC DOT

Back of Sidewalk Treatments



**Poured in
Place Curb**



**Wheel
Stops**

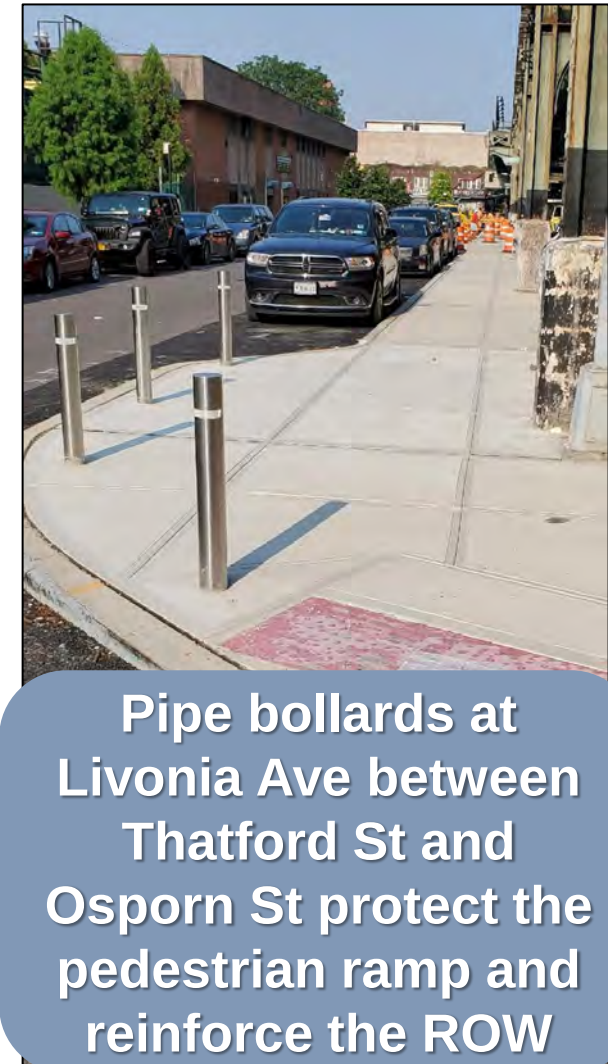
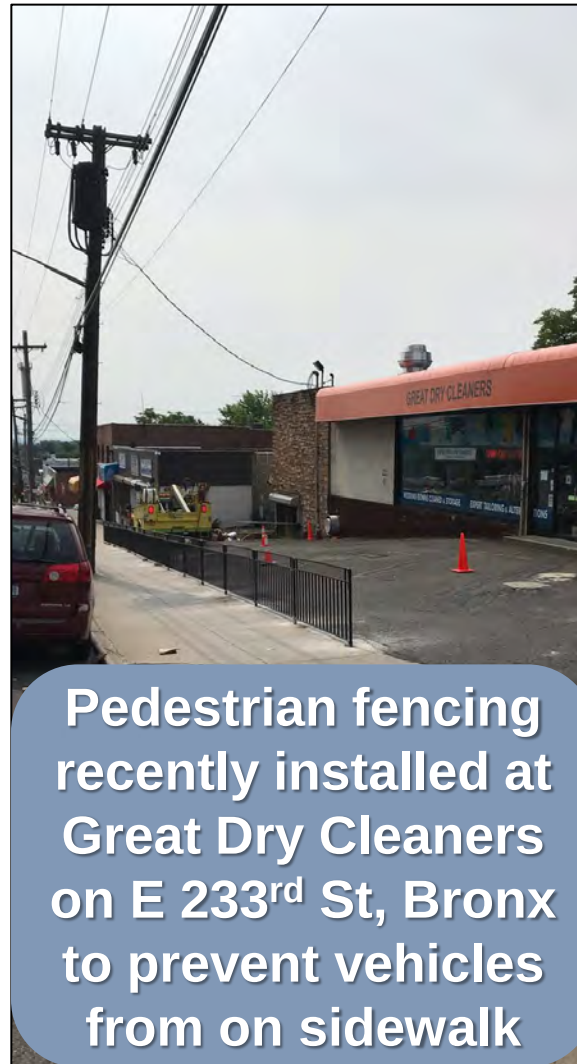


**Pipe
Bollards**

Pilot Program

Previous Projects to Address ROW Encroachment

Source: NYC DOT



Principles of Access Management

Avoid Continuous Access Along Property Frontage



*Source:
Google
Street View*

Principles of Access Management

Avoid Continuous Access Along Property Frontage



Source: Google Street View



Principles of Access Management

Avoid Continuous Access Along Property Frontage

Separate vehicular and pedestrian access points



Source: NYC DOT

Pilot Sites

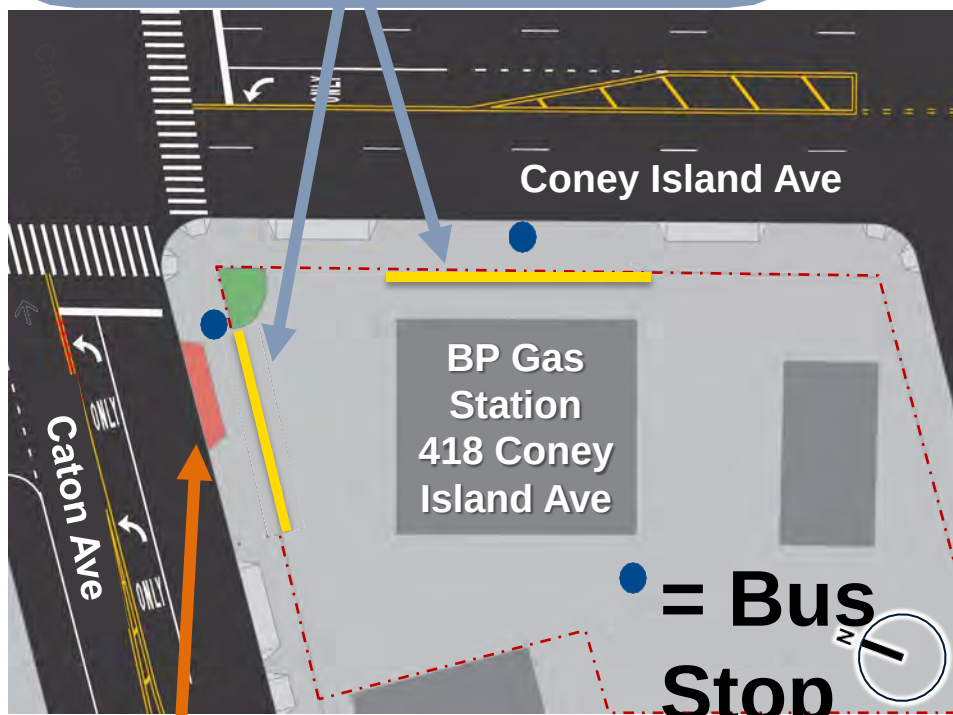
2024-25 Pilot Locations

Address	Boro	Who is Constructing	Status
418 Coney Island Ave	BK	BP Oil	Completed July 2024
378 Coney Island Ave	BK	DOT	Completed July 2025
4308 Ft Hamilton Pkwy	BK	DOT	Drawing signed - Planned Summer 2025
641 E Gun Hill Rd	BX	BP Oil	Completed Oct 2024
43-21 Junction Blvd	QN	BP Oil	Completed July 2024

Pilot Site

418 Coney Island Ave, Brooklyn

Back-of-sidewalk treatment



Close existing driveway by restoring full-height curb and sidewalk

BP Oil: completed July 2024

Before



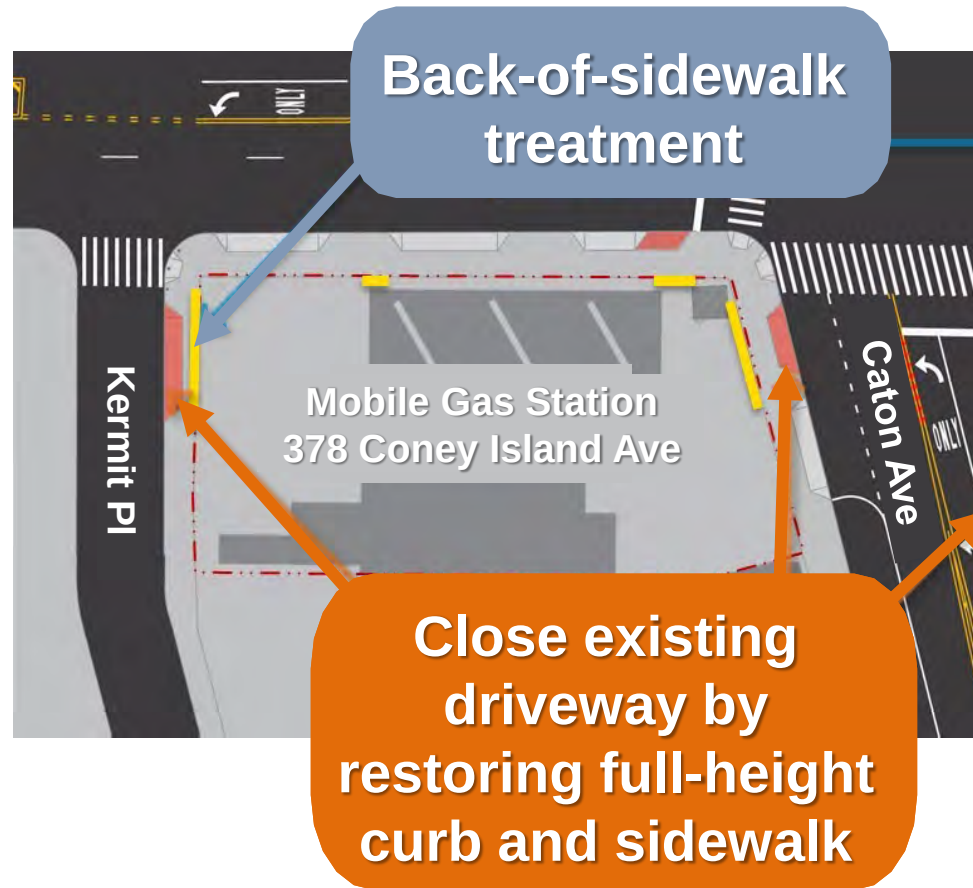
After



Source:
NYC DOT

Pilot Site

378 Coney Island Ave, Brooklyn



NYC DOT: completed July 2025

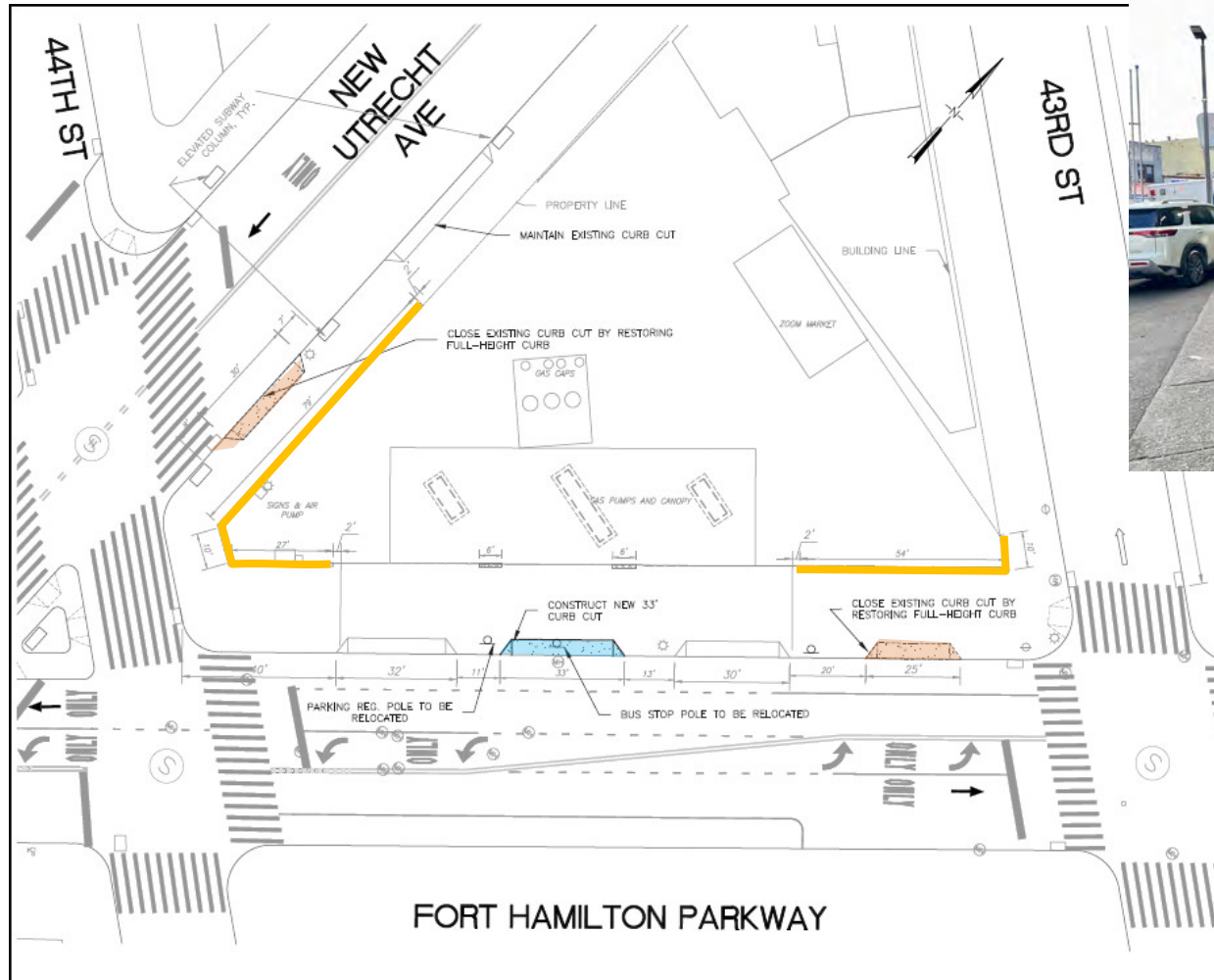


*Source:
NYC DOT*

Pilot Site

4308 Ft Hamilton Pkwy, Brooklyn

NYC DOT: planned Fall 2025

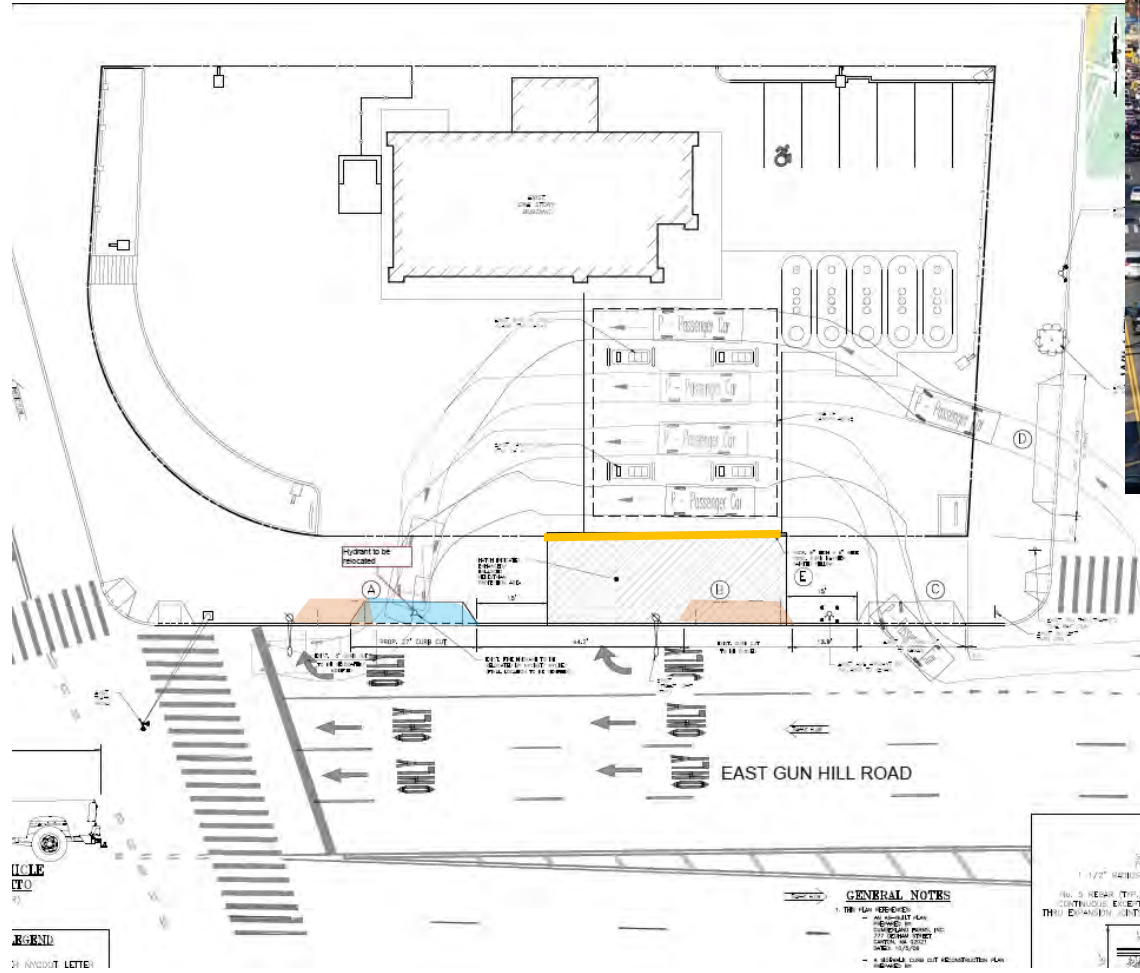


Source: NYC DOT

Pilot Site

641 E Gun Hill Rd, Bronx

BP Oil: completed October 2024

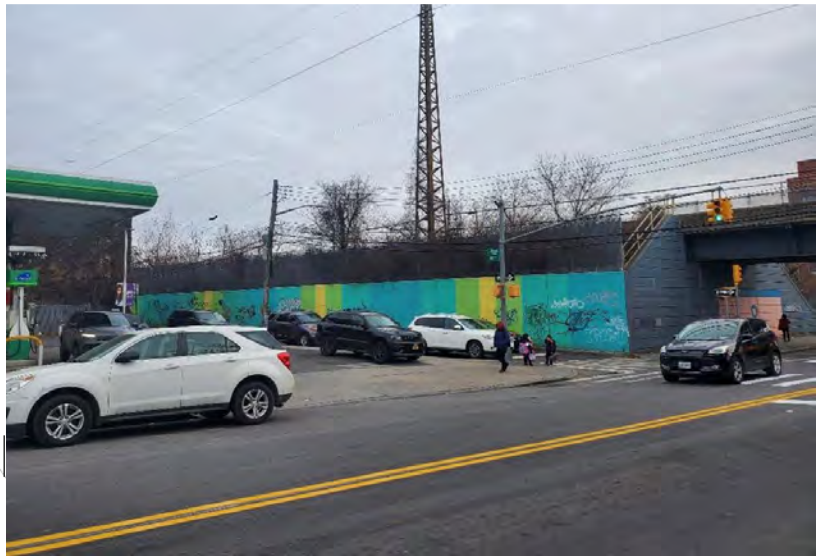
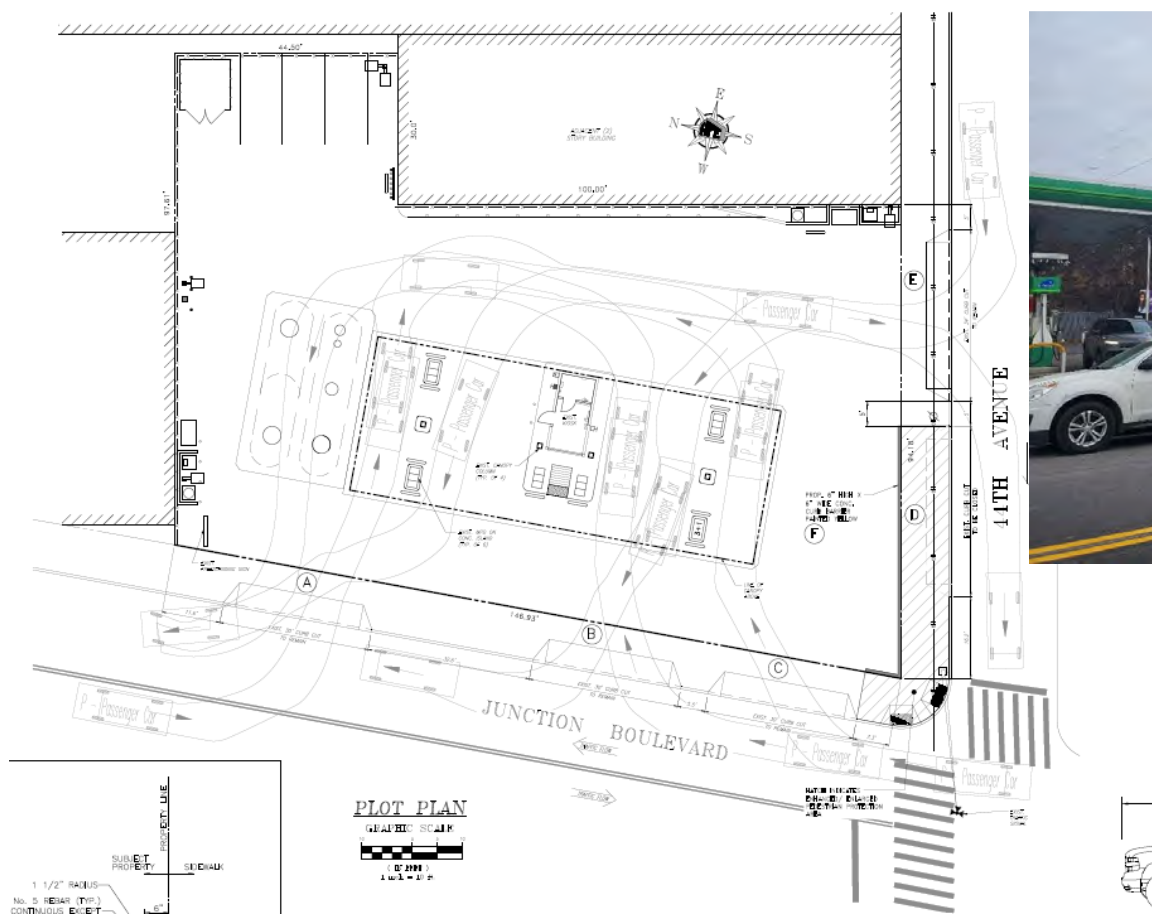


Source: NYC DOT

Pilot Site

43-21 Junction Blvd, Queens

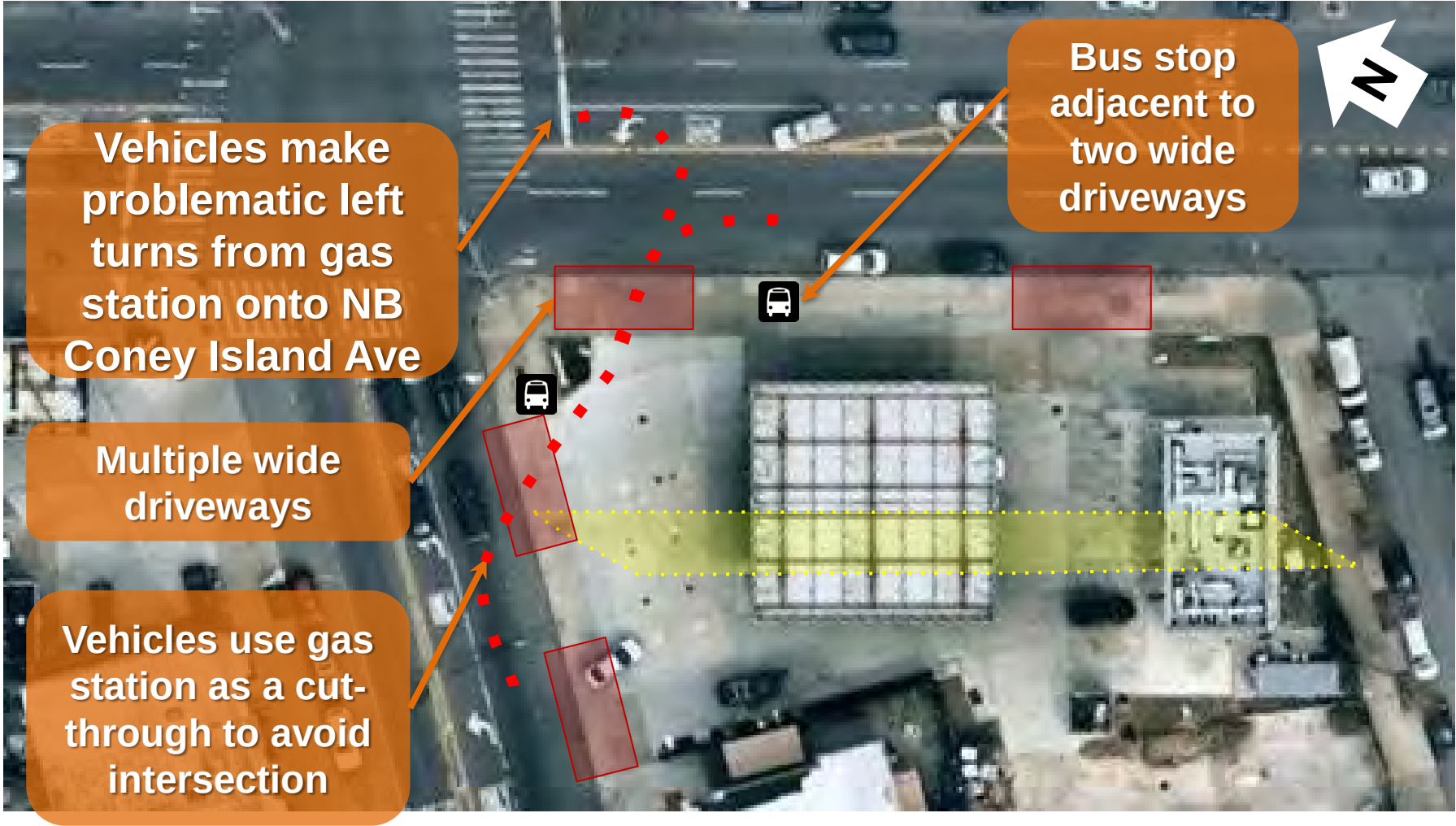
BP Oil: completed July 2024



Source: NYC DOT

BP Gas Station, 418 Coney Island Ave, BK

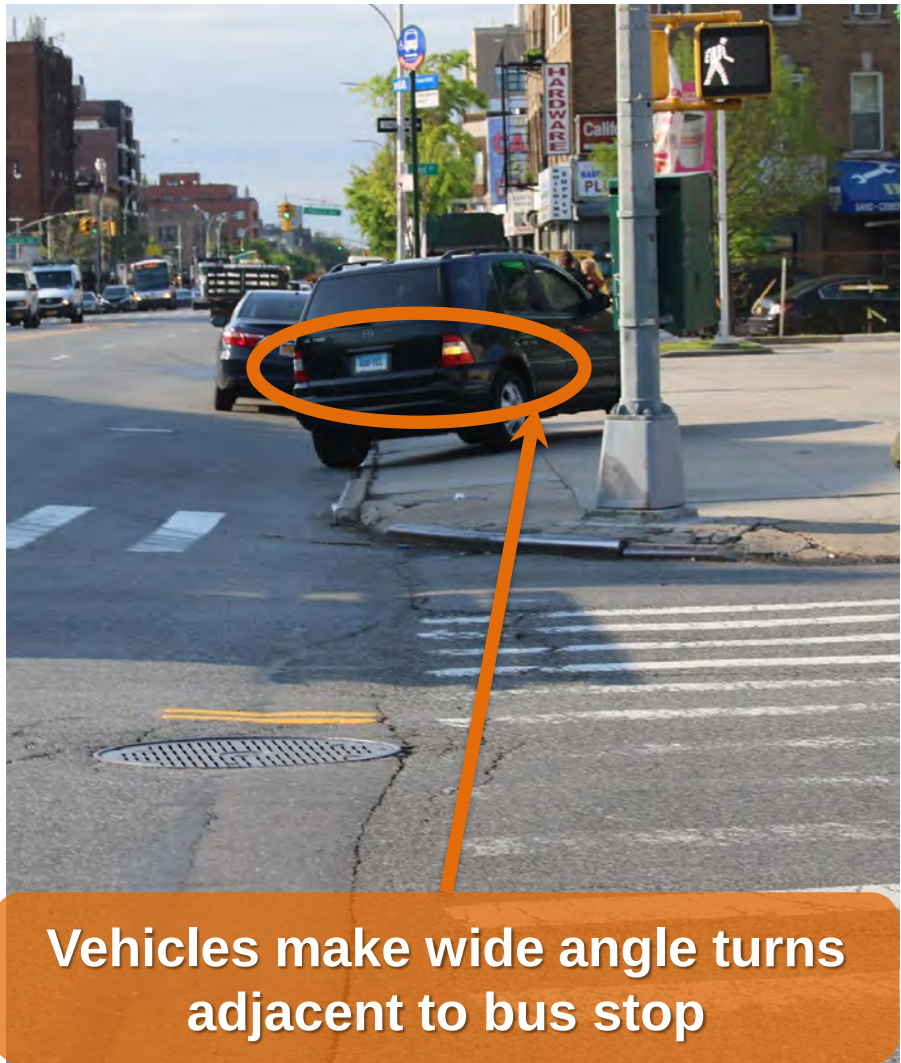
Before



Source:
NYC DOT

BP Gas Station, 418 Coney Island Ave, BK

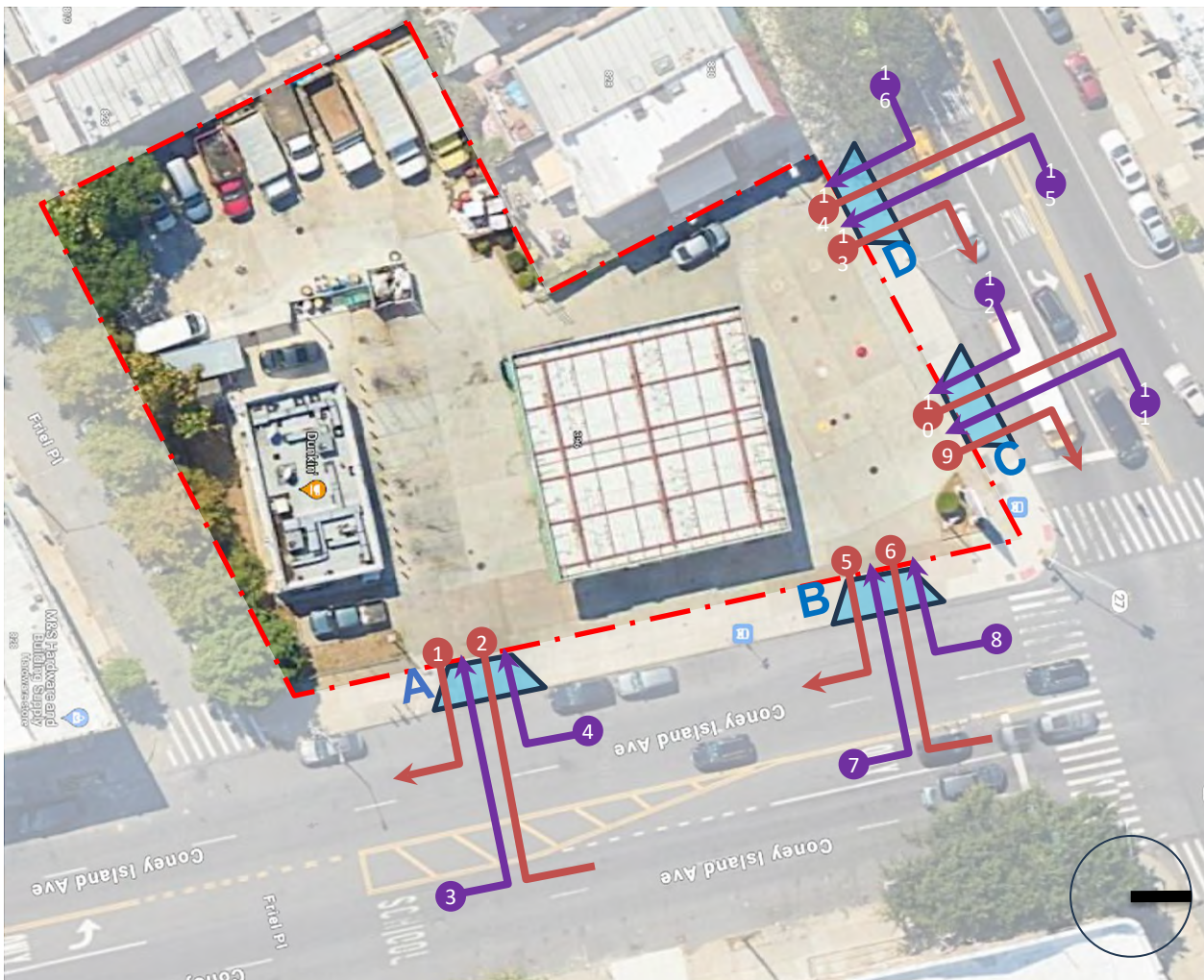
Before



Source:
NYC DOT

Turning Movement Count Methodology

418 Coney Island Ave, BK



Curb Cut A

1. EBR onto SB Coney Island Ave
2. EBL onto NB Coney Island Ave
3. NBL onto curb cut A
4. SBR onto curb cut A

Curb Cut B

5. EBR onto SB Coney Island Ave
6. EBL onto NB Coney Island Ave
7. NBL onto curb cut B
8. SBR onto curb cut B

Curb Cut C

9. NBR onto EB Caton Ave
10. NBL onto WB Caton Ave
11. WBL onto curb cut C
12. EBR onto curb cut C

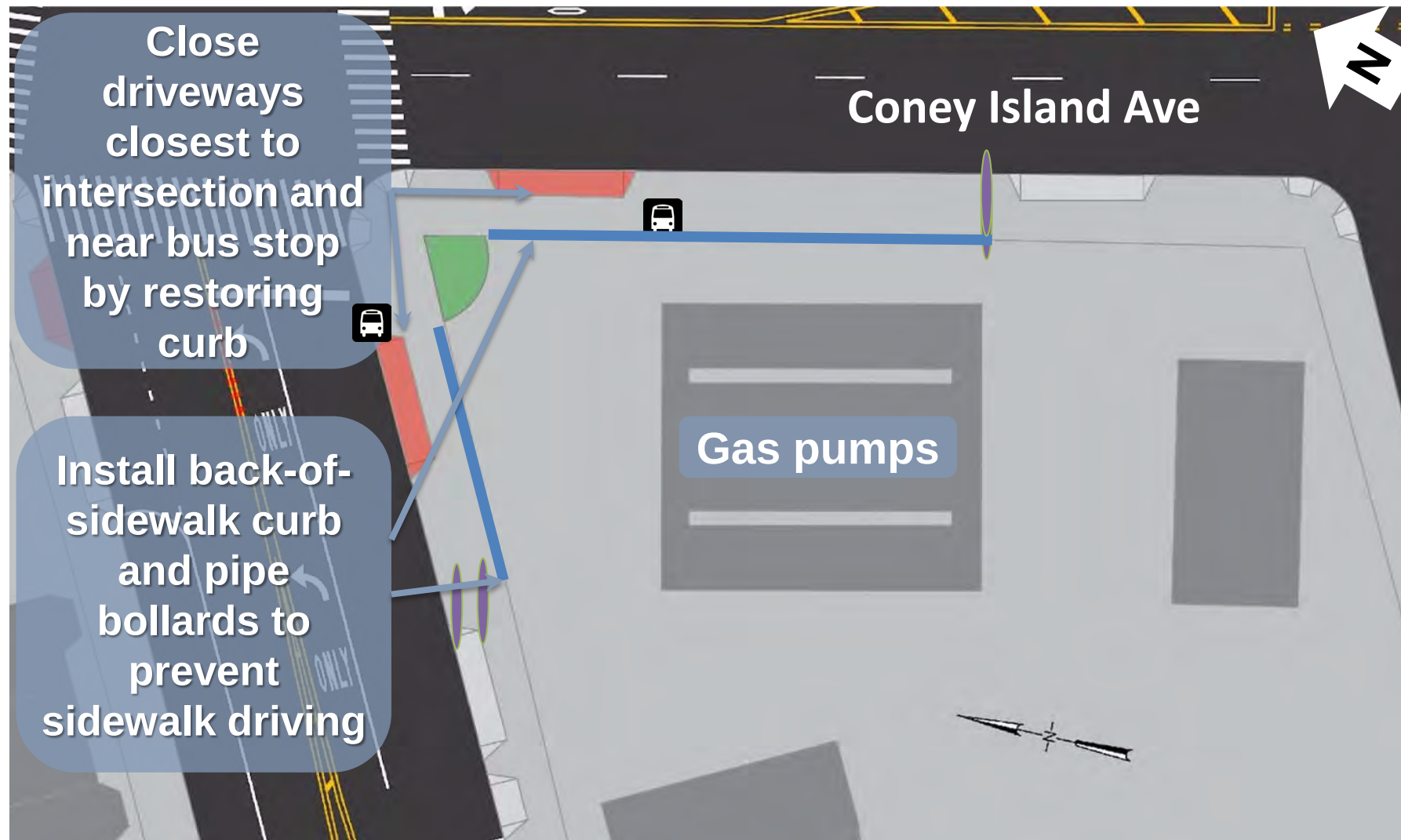
Curb Cut D

13. NBR onto EB Caton Ave
14. NBL onto WB Caton Ave
15. WBL onto curb cut C
16. EBR onto curb cut C

Source:
NYC DOT

BP Gas Station, 418 Coney Island Ave, BK

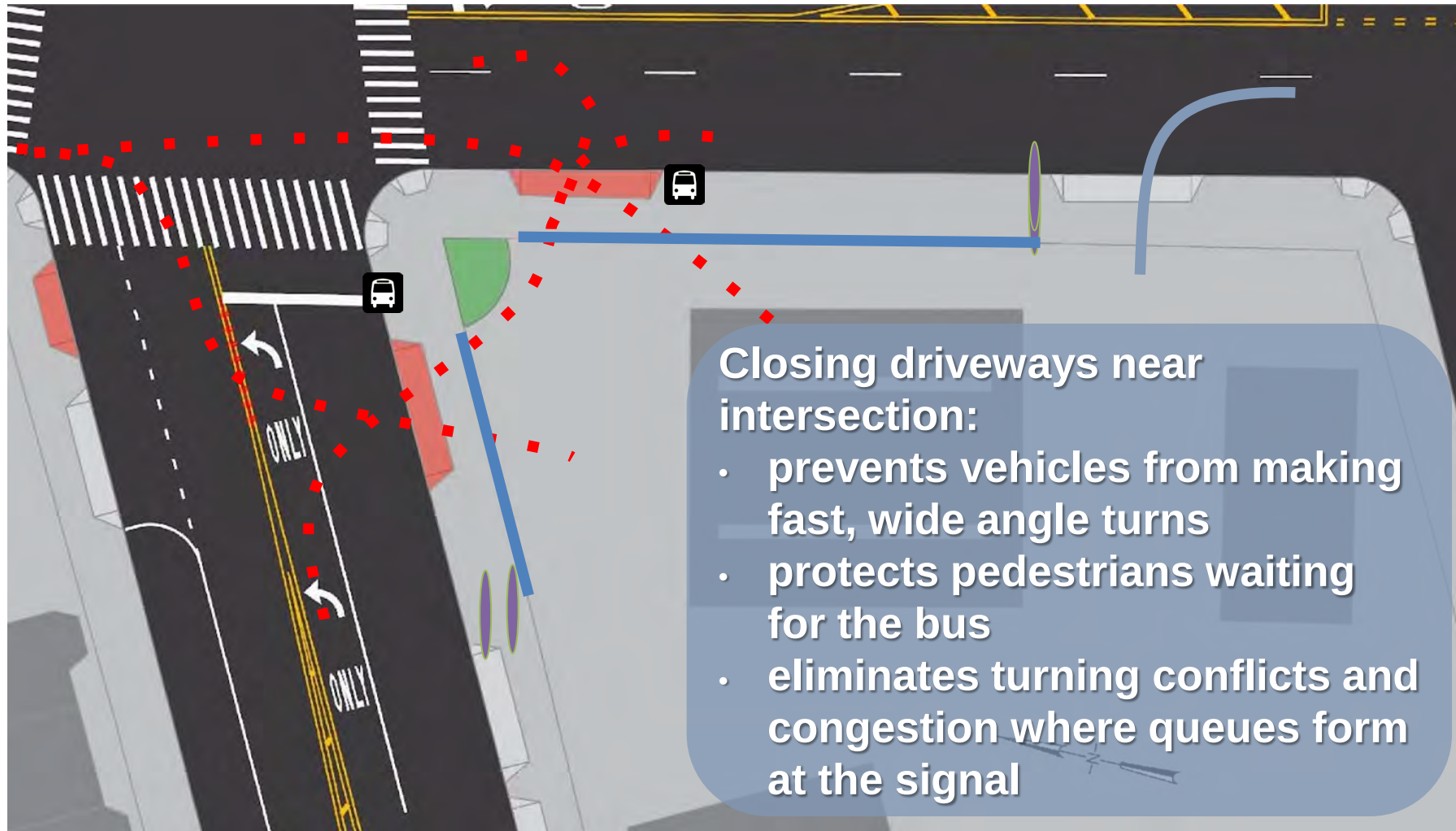
After



*Source:
NYC DOT*

BP Gas Station, 418 Coney Island Ave, BK

After



*Source:
NYC DOT*

BP Gas Station, 418 Coney Island Ave, BK

Before vs. After



Source: NYC DOT

Thank You!

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