



FLATBUSH AVE AND ATLANTIC AVE

Presentation to Community Board 2 Transportation Committee

Wednesday, May 18, 2017



AGENDA



1. Background
2. Proposal for Safety Improvements at Flatbush Ave and Atlantic Ave
3. Final Design for Times Plaza
4. Next Steps

BACKGROUND

1

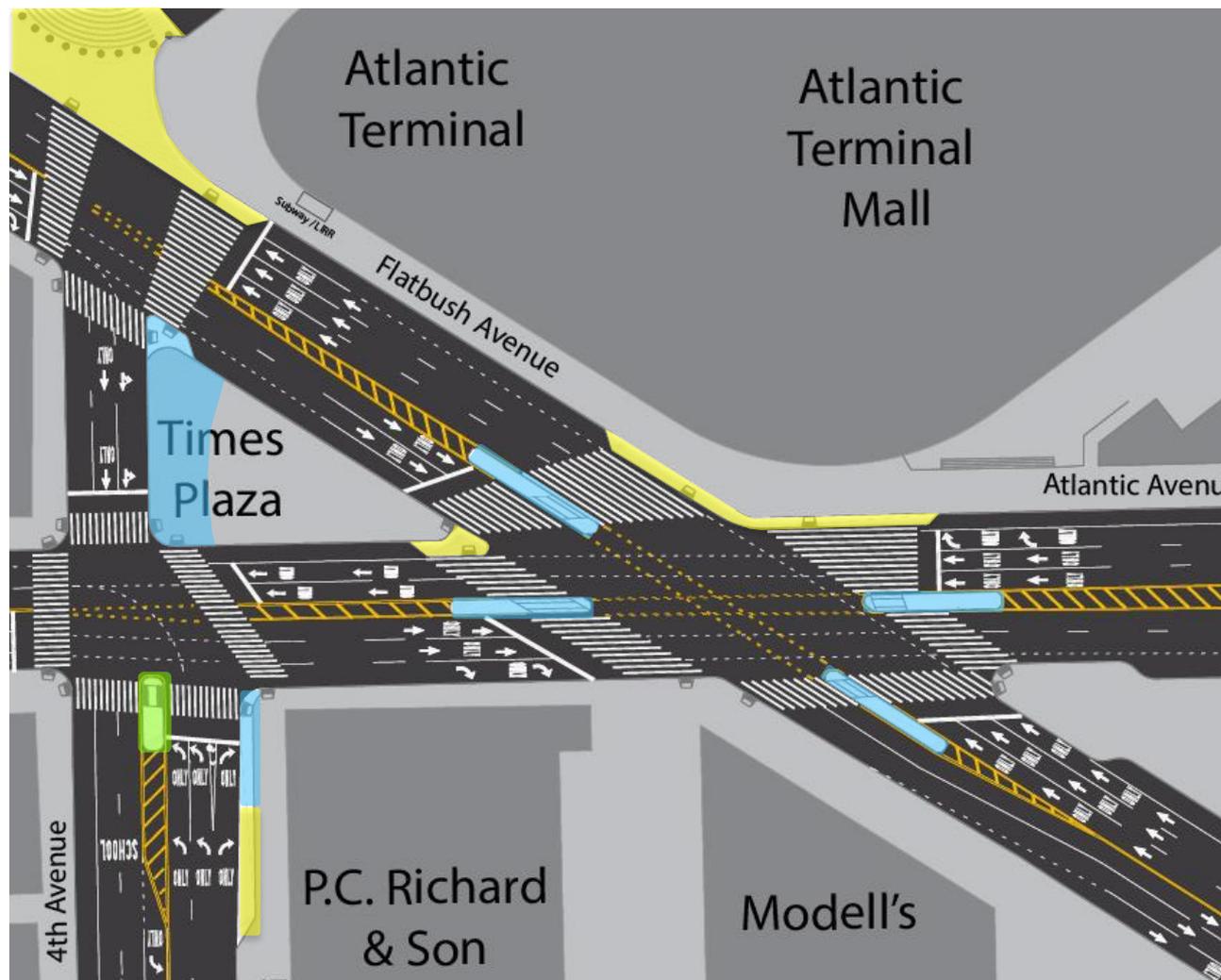
COMPREHENSIVE SAFETY PLAN

- DOT hosted workshop on comprehensive plan on August 3, 2016
- Plan includes quick-response street improvement projects and long-term capital projects



FLATBUSH AVE AND ATLANTIC AVE

- Workshop feedback on proposal used to further develop plans for the intersection of Flatbush Ave and Atlantic Ave, including Times Plaza



 Completed  Tonight's Presentation  Potential Future Development

COMPLETED WORK

4TH AVE AT ATLANTIC AVE

- DOT installed rubber pedestrian refuge island in December 2016
- Created safer and shorter two-part pedestrian crossing at a Vision Zero Intersection



FLATBUSH AVE AND ATLANTIC AVE

2

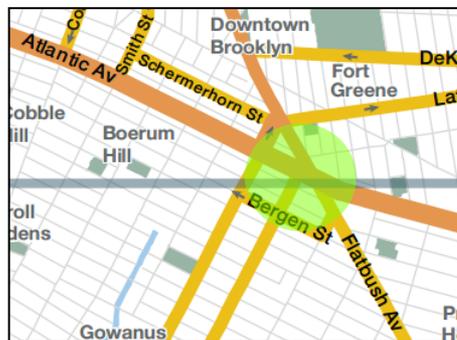
FLATBUSH AVE AND ATLANTIC AVE

- Major intersection of two two-way arterials
- Multi-modal hub
- New residential and commercial development
- Major entertainment and shopping destination

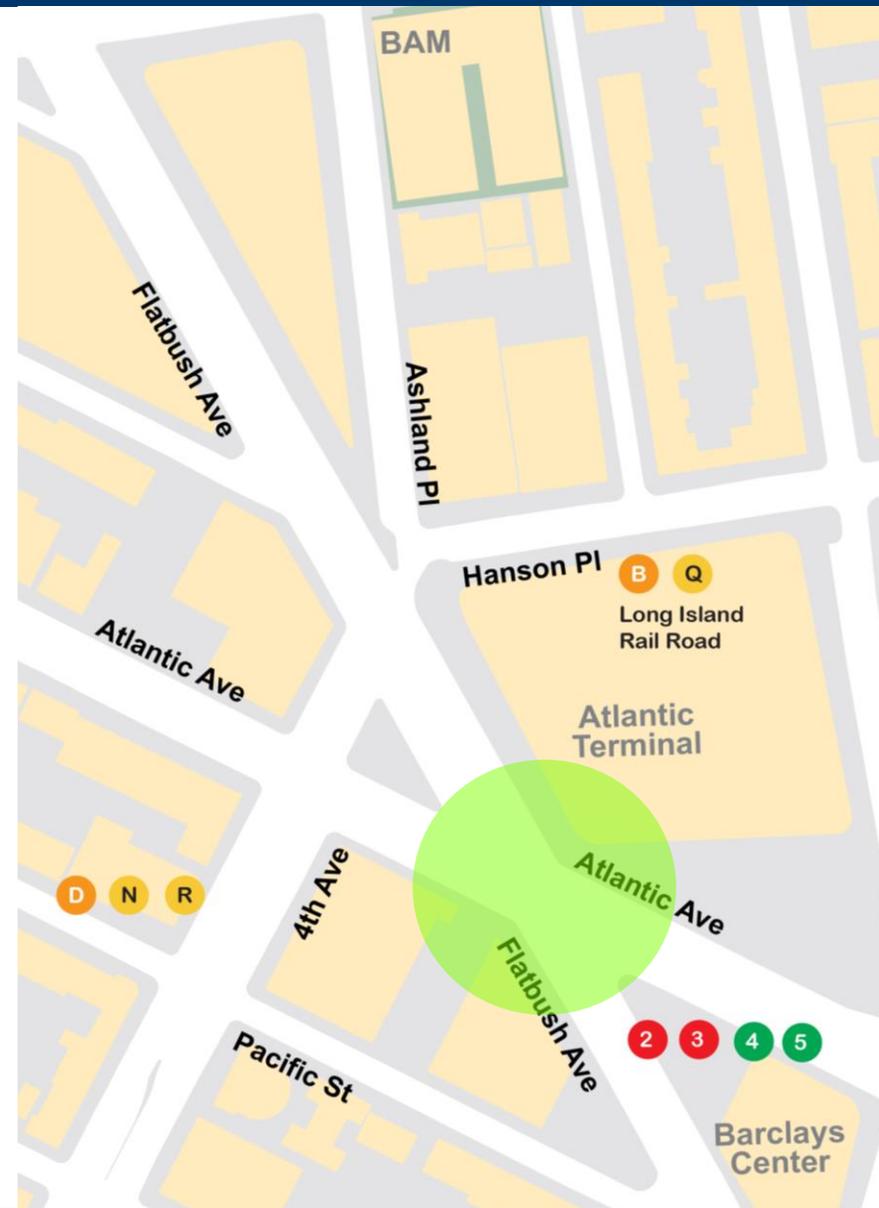
Bus Routes



Truck Routes

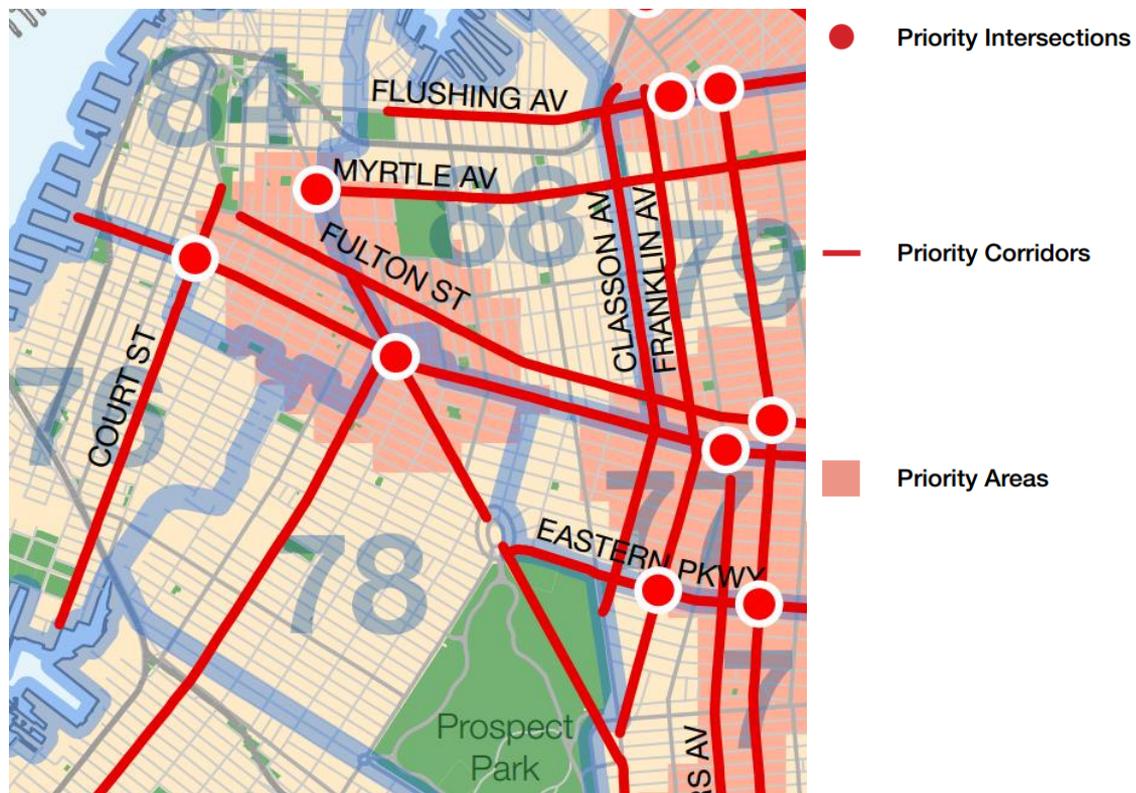
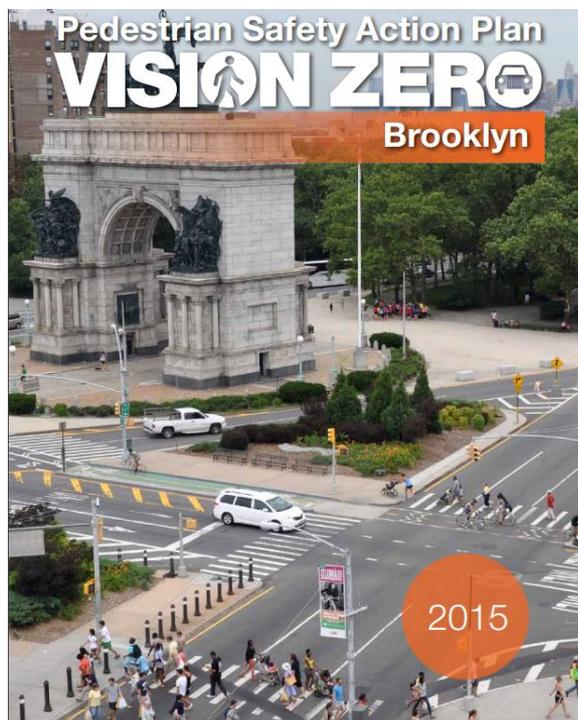


Bike Routes



SAFETY

- Flatbush Ave and Atlantic Ave:
 - VZ Intersection
 - Within a VZ Area
 - Are both VZ Corridors

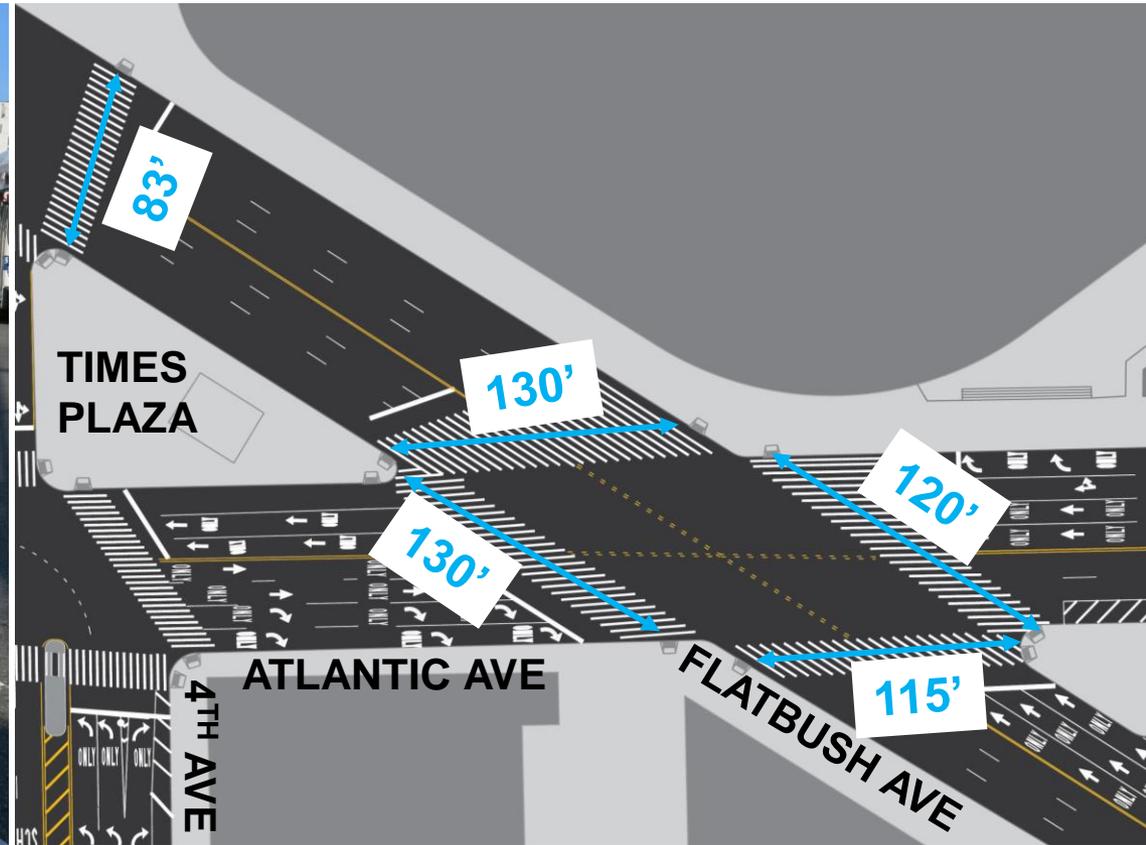


EXISTING CONDITIONS

Long Pedestrian Crossings



Atlantic Ave at Flatbush Ave
Looking North



EXISTING CONDITIONS

Heavy Turning Conflicts Between Pedestrians and Vehicles



Vehicles Turning into Crossing Pedestrians on Flatbush Ave at Atlantic Ave

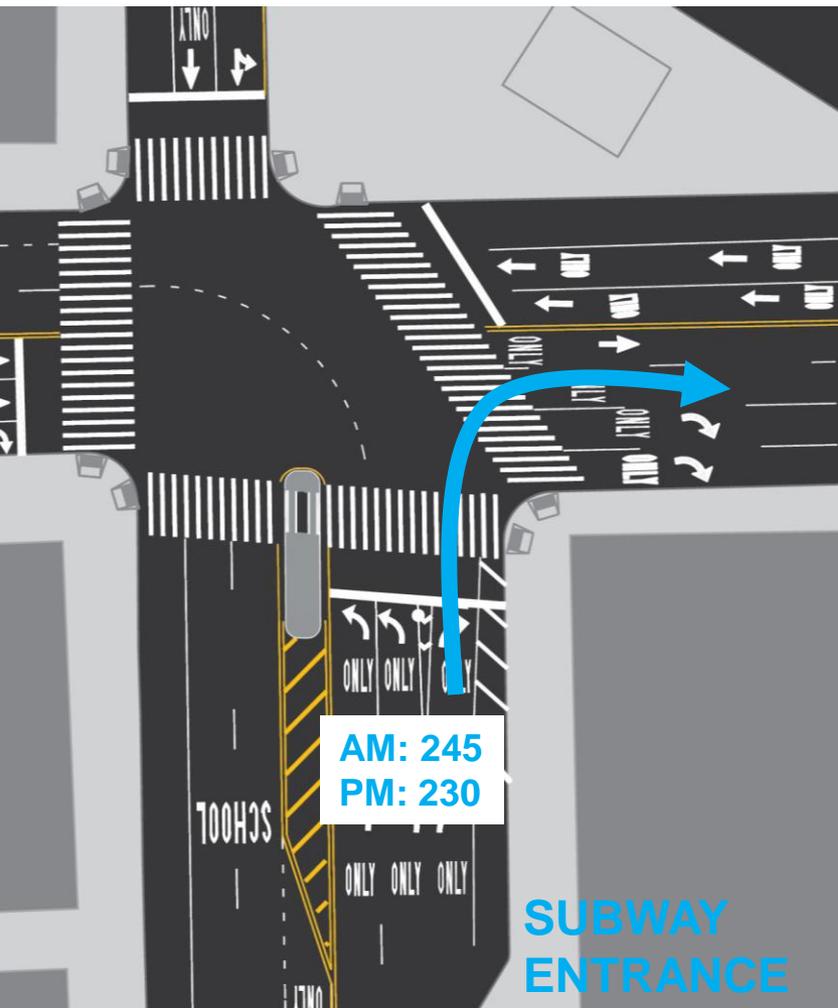
Heavy Curbside Drop-off Demand



Flatbush Ave at 4th Ave Looking South

EXISTING CONDITIONS

Heavy Right-Turn Demand from 4th Ave to Atlantic Ave

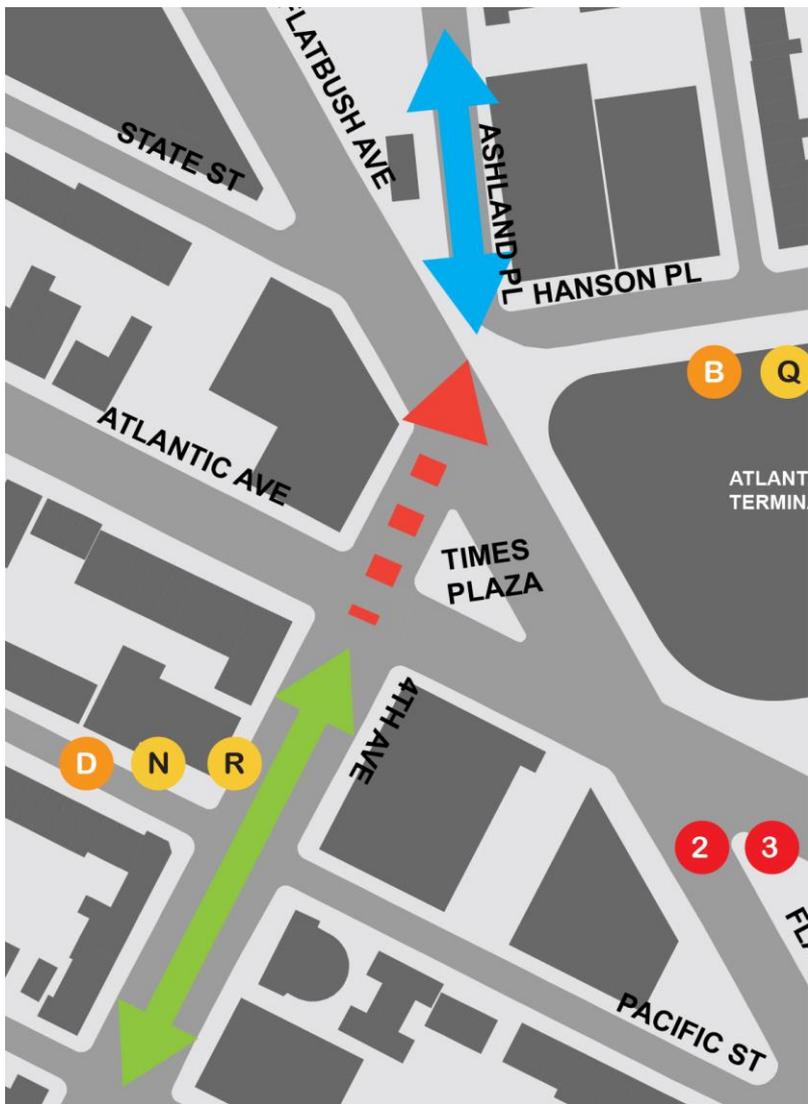


Subway Entrance Generates Large Number of Pedestrians



EXISTING CONDITIONS

Lack of Bicycle Connections

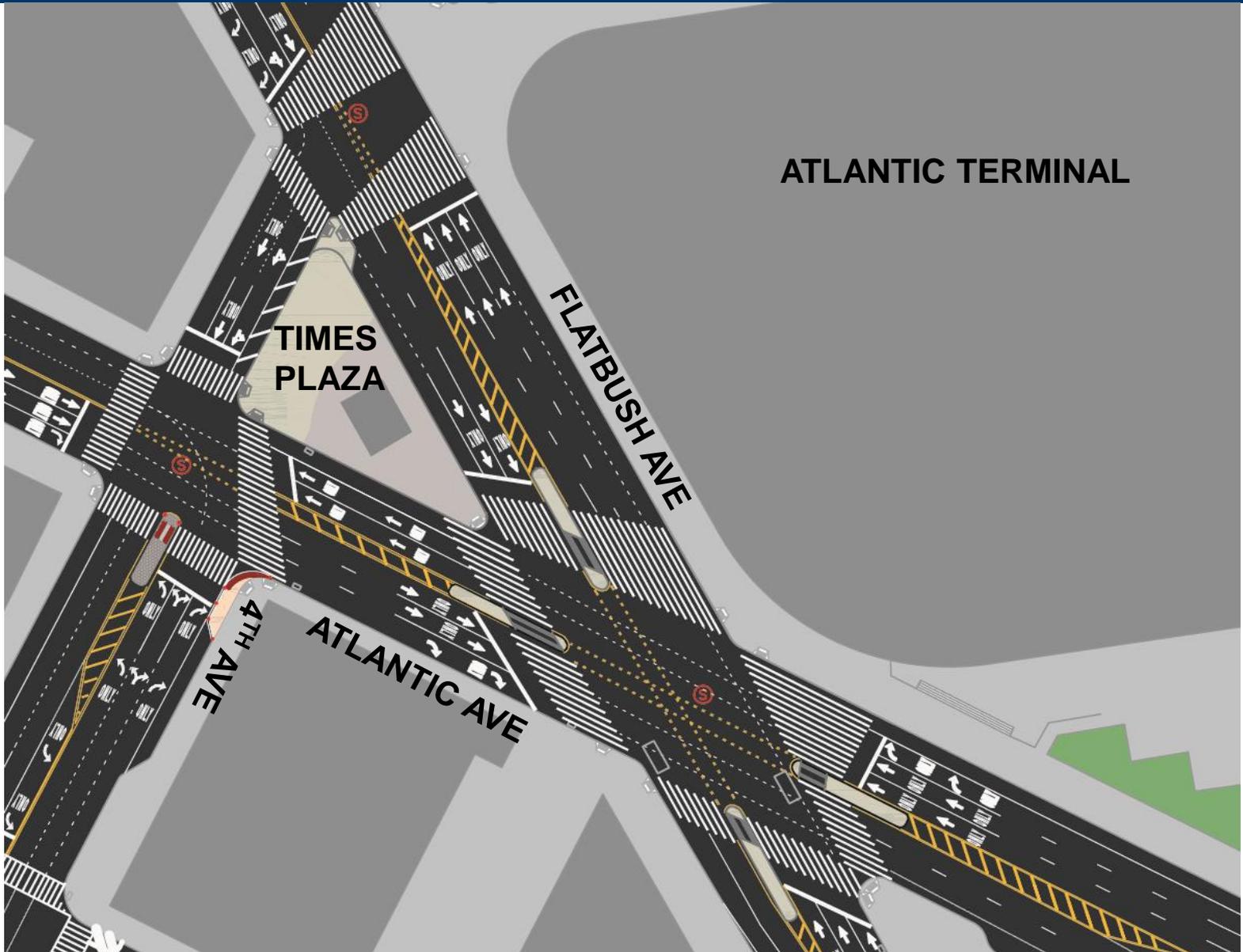


EXISTING SHARED BIKE ROUTE

SIGNED BIKE ROUTE

MISSING BIKE ROUTE

PROPOSAL

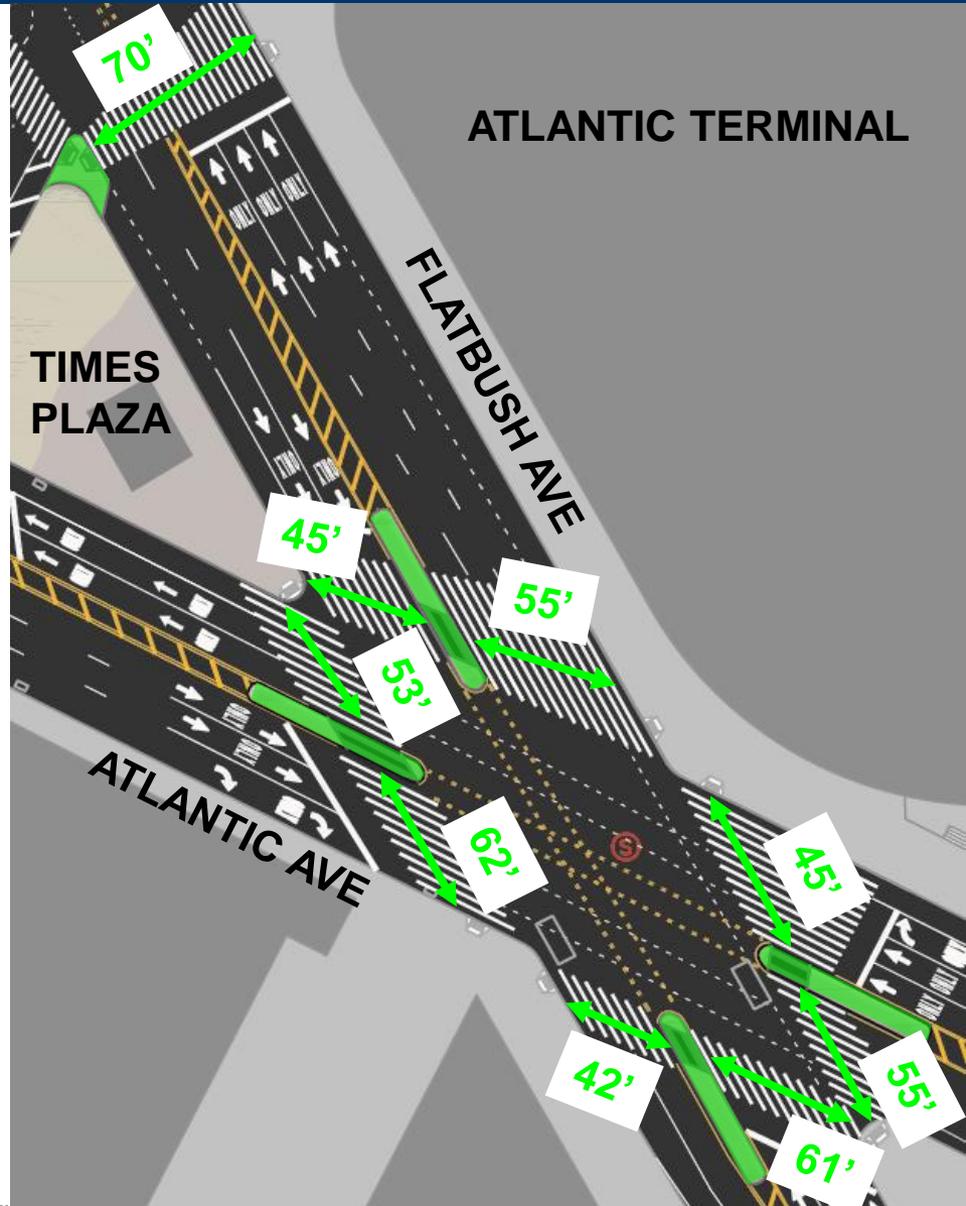


PROPOSAL

- Four concrete pedestrian refuge islands create shorter, two-part crossings

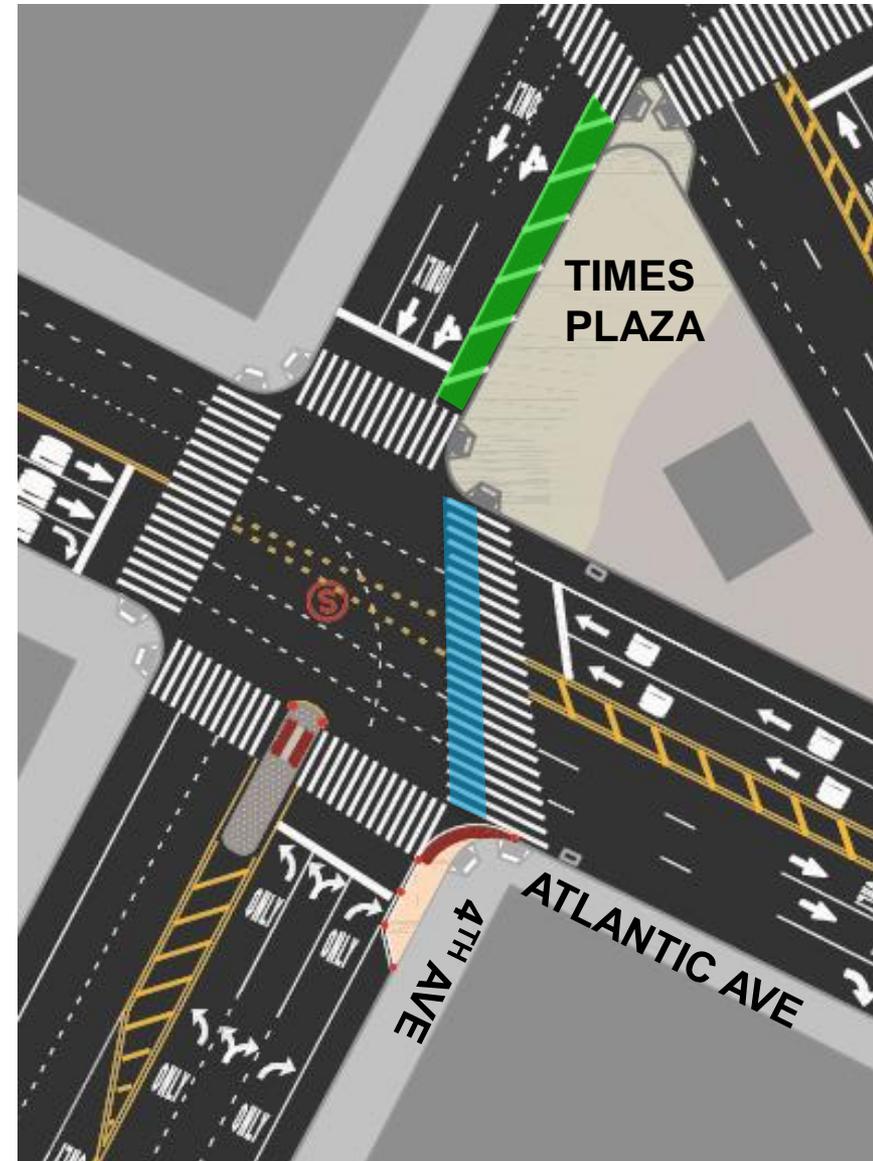


- Concrete neckdown shortens crossing



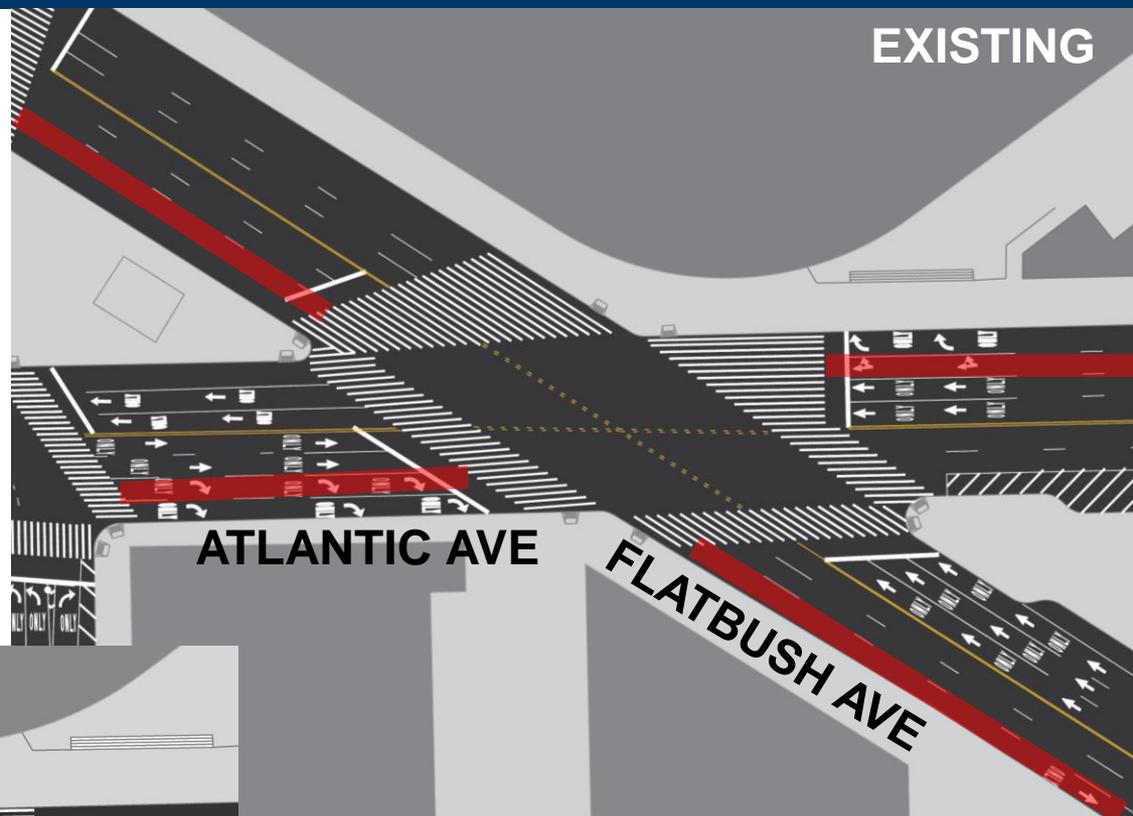
PROPOSAL

- Allow right-turns from center lane on northbound 4th Ave
- Expand south eastern crosswalk
- Add painted pedestrian space to south eastern corner (pending maintenance partner)
- Pull back curb-line to allow for future bike connections

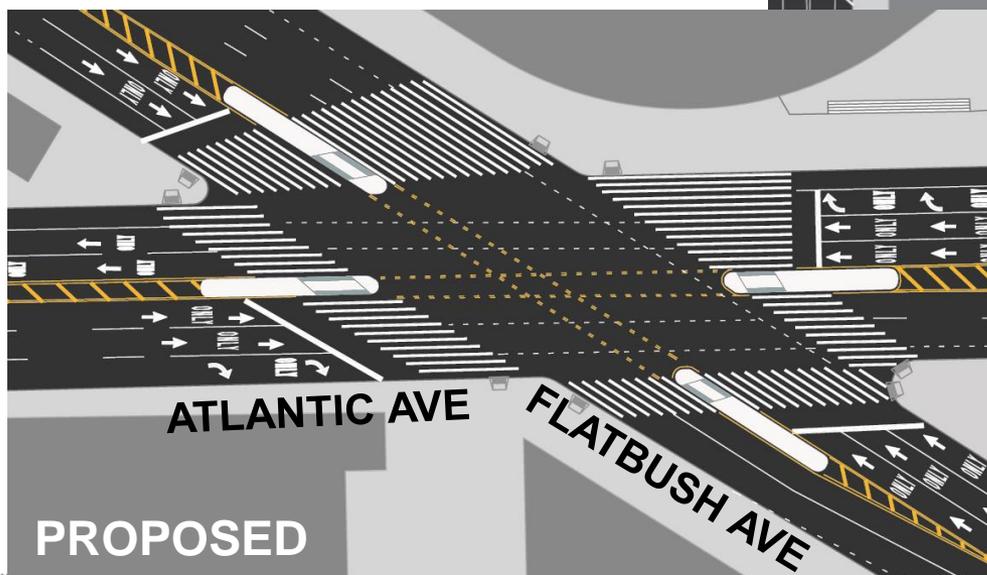


PROPOSAL

EXISTING



- Removal of travel lanes necessary to accommodate concrete pedestrian refuge islands
- Remove one right-turn lane on Atlantic Ave at Flatbush Ave in both directions reduce turn conflicts between vehicles and pedestrians

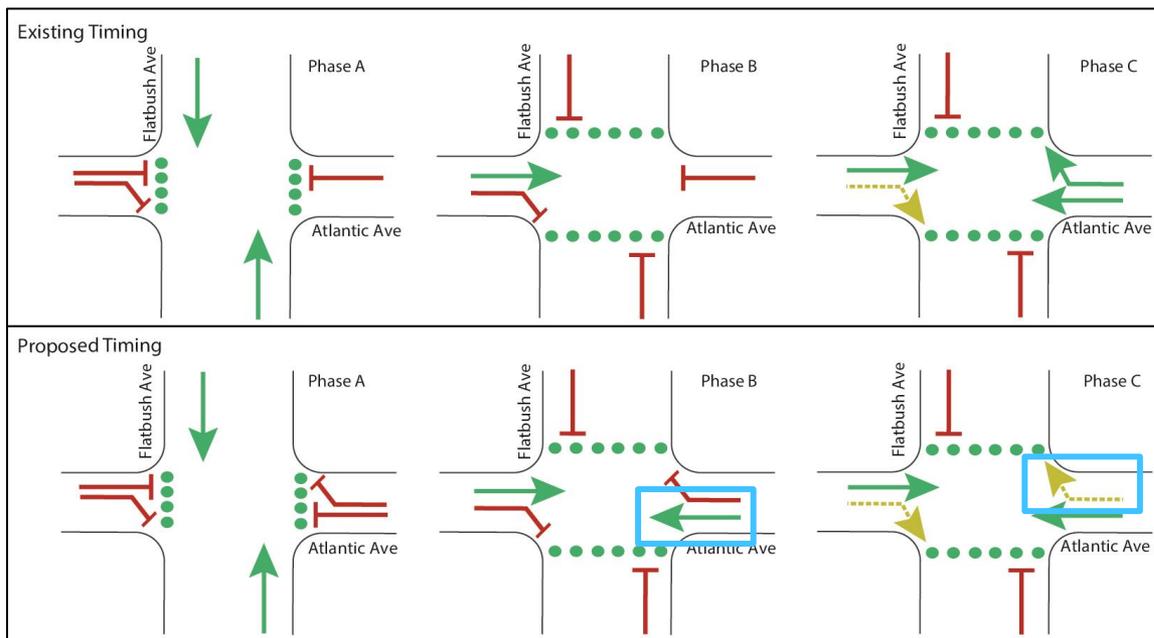


Proposed Lane Removals

- Lane reductions in all directions have minimal impact on overall intersection level of service (LOS) and delays

PROPOSAL

Traffic Flow Improvements



New drop-off area on northeast side of Atlantic Ave at Flatbush Ave

Additional 15 seconds for through traffic on westbound Atlantic Ave, while right-turns are held at the beginning of pedestrian crossing (Split LPI)

- By increasing time for right-turn movement, even with lane reduction, westbound Atlantic Ave level of service (LOS) is improved and delays are reduced

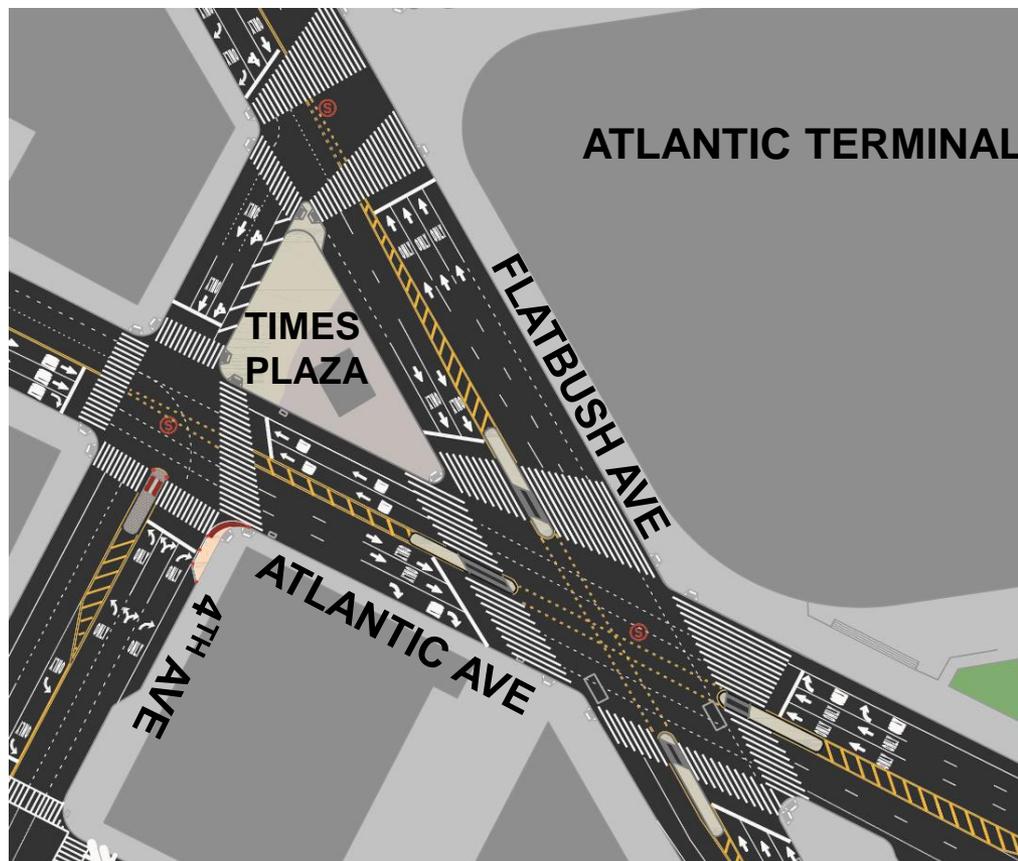
PROJECT BENEFITS

- Safer, shorter pedestrian crossings
- Enhances pedestrian space
- Reduces speeding and calms traffic
- Simplifies turns and reduces turning conflicts
- Improves traffic flow
- Allows space for future bike connections



PROJECT SUMMARY

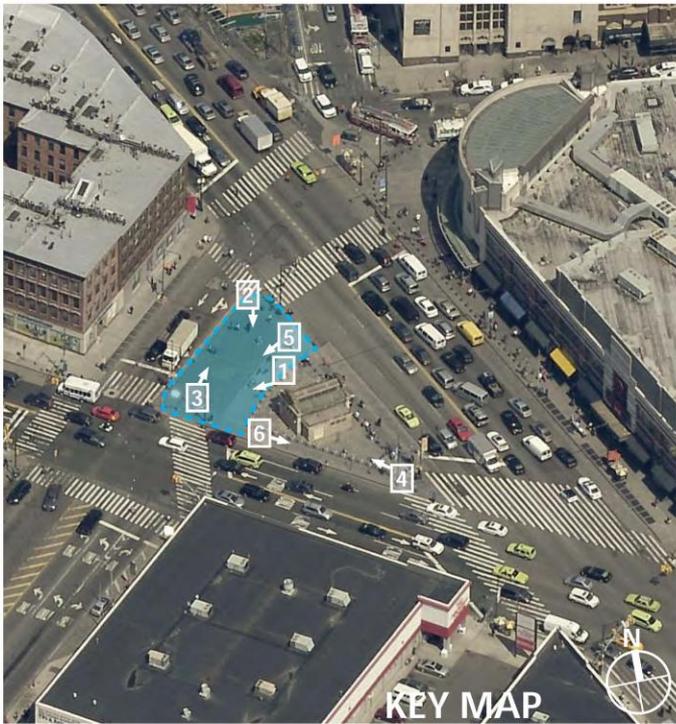
- Install four (4) concrete pedestrian refuge islands on each leg of the intersection of Flatbush Ave and Atlantic Ave
- Construct concrete neckdown on south east side of Flatbush Ave at 4th Ave
- Remove one right-turn only lane from eastbound Atlantic Ave to southbound Flatbush Ave
- Only allow right-turns from one lane on westbound Atlantic Ave onto northbound Flatbush Ave
- Add split LPI signal phase for westbound Atlantic Ave at Flatbush Ave
- Add drop-off area on north side of Atlantic Ave between Flatbush Ave and Ft. Greene PI
- Allow right-turns from center lane on northbound 4th Ave at Atlantic Ave
- New painted pedestrian space on south east corner of 4th Ave at Atlantic Ave (pending maintenance partner)
- Expand east crosswalk on Atlantic Ave at 4th Ave
- Pull back curb-line on northbound 4th Ave between Atlantic Ave and Flatbush Ave to allow for future bike connections



TIMES PLAZA

3

TIMES PLAZA
CONCEPT DESIGN WITH DOT 2017 PEDESTRIAN SAFETY IMPROVEMENTS
COMMUNITY BOARD 2 TRANSPORTATION COMMITTEE/PUBLIC MEETING
MAY 18, 2017



1
Looking west at 4th Ave and Atlantic Ave.



2
NW corner looking south at 4th Ave.



3
SW corner looking north east at Atlantic Terminal, Flatbush Ave



4
Looking west at Atlantic Ave. and Flatbush Ave.

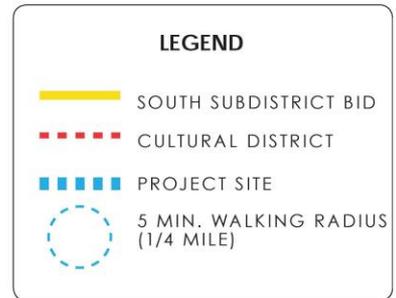
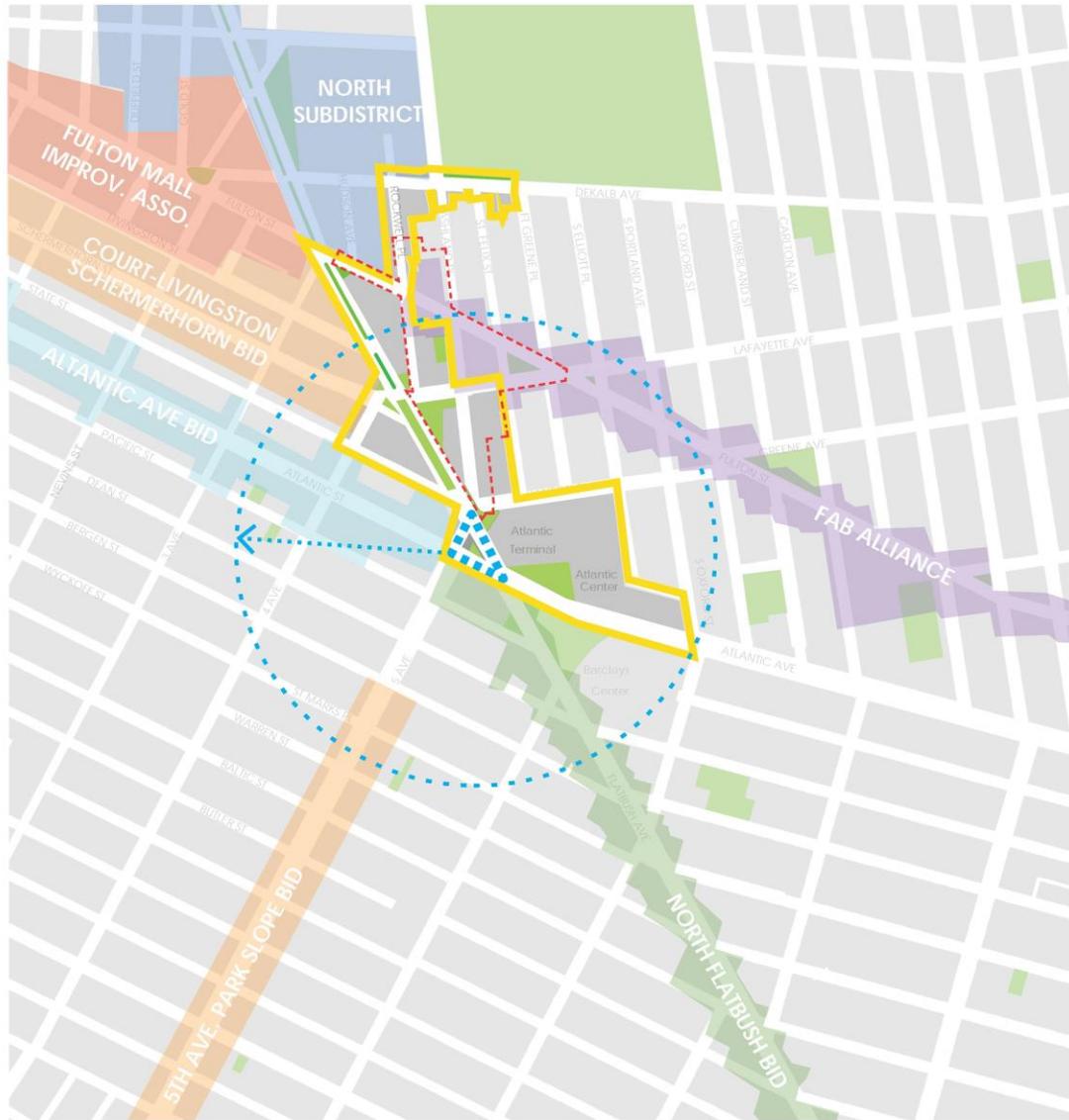


5
Looking south west at Atlantic Ave.



6
Looking east at Barclays Center, Flatbush Ave.

- UNIQUE AND HIGHLY TRAFFICKED LOCATION
- SURROUNDED BY 3 MAJOR ARTERIAL ROADWAYS
- MIX OF PEDESTRIAN, VEHICULAR AND BUS TRAFFIC
- 6 CROSSWALKS
- TRANSITIONAL IN NATURE, NOT A DESTINATION



TIMES PLAZA

May 18, 2017

SITE CONTEXT

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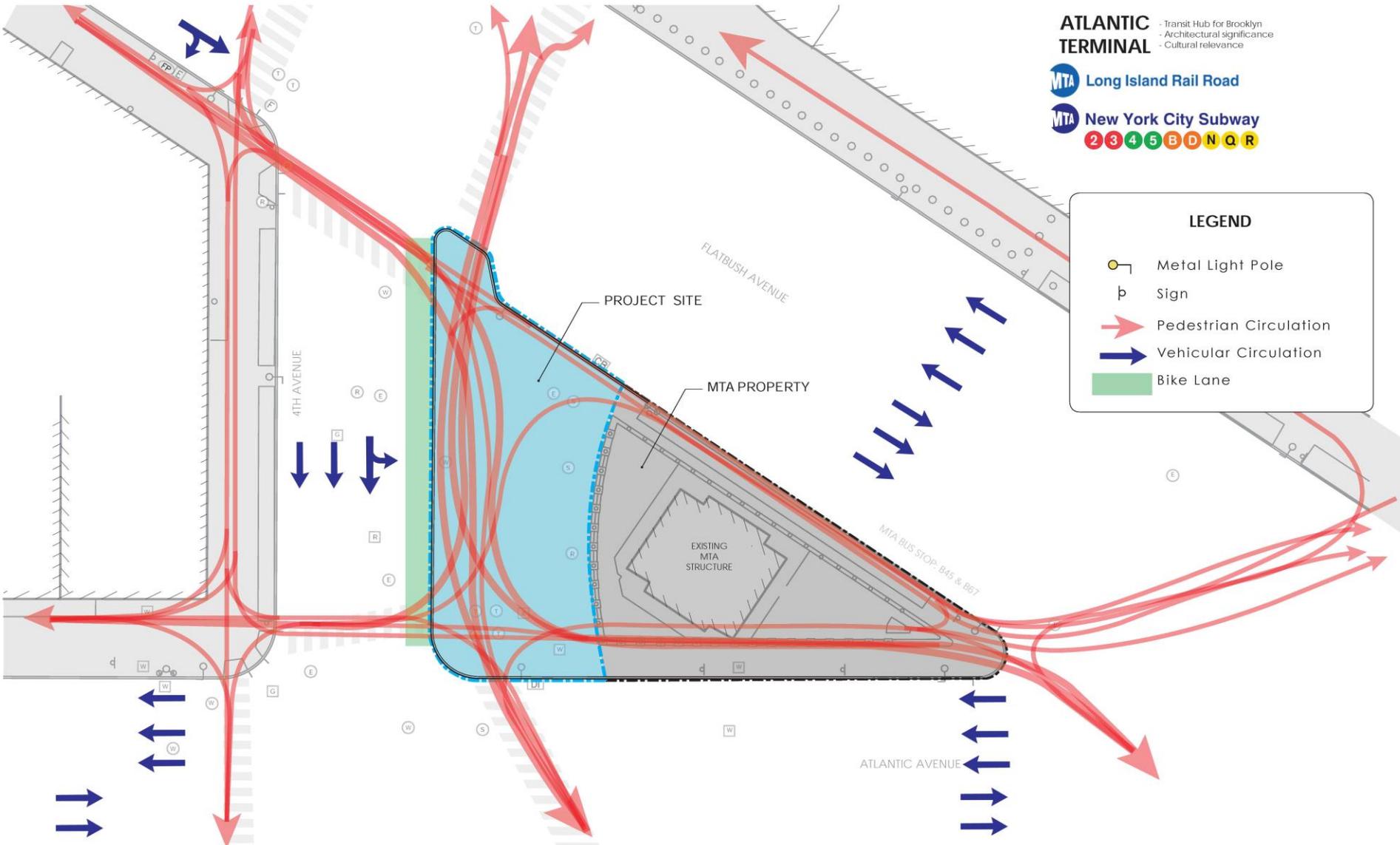
ATLANTIC TERMINAL
 - Transit Hub for Brooklyn
 - Architectural significance
 - Cultural relevance

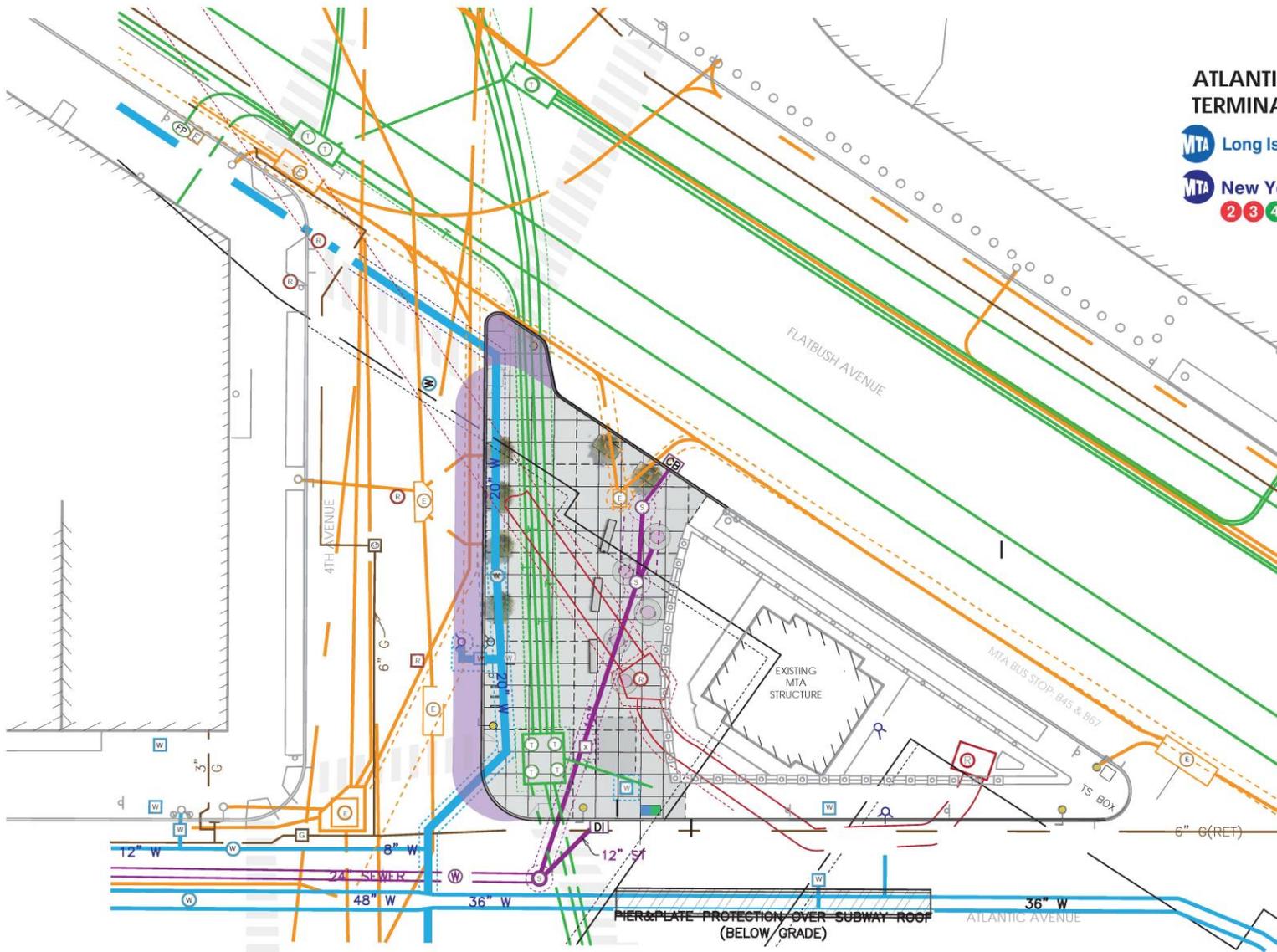
MTA Long Island Rail Road

MTA New York City Subway
 2 3 4 5 B D N Q R

LEGEND

- Metal Light Pole
- Sign
- Pedestrian Circulation
- Vehicular Circulation
- Bike Lane





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LEGEND

- (W) Water Manhole
- (T) Telephone Manhole
- (R) Subway Manhole
- (S) Storm Sewer Manhole
- (E) Electric Manhole
- W Water Valve
- X Unknown Valve
- Storm Sewer Line (12")
- Electric Line
- Water Line (20")
- Telephone Line
- Gas Line
- Transit Authority Ductbank
- Subway Structure
- ⊕ Metal Light Pole
- p Sign
- ⊕ Hydrant
- o Bollard
- Bike Rack
- ⊕ Trash & Recycling Receptacles

TIMES PLAZA

May 18, 2017

EX. UTILITY OVERLAY SITE PLAN

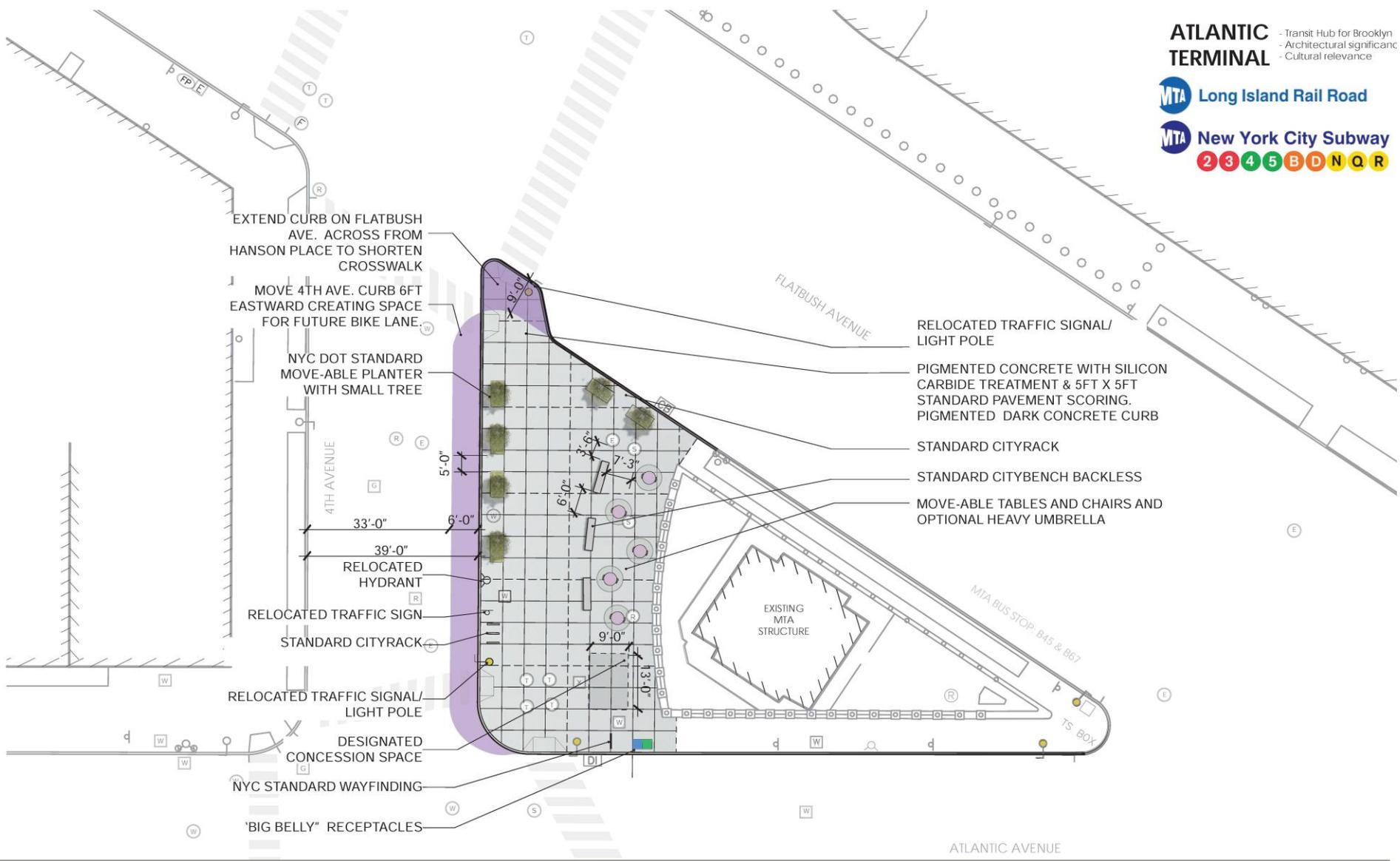
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ATLANTIC TERMINAL

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MTA Long Island Rail Road

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 2 3 4 5 B D N Q R



TIMES PLAZA
 May 18, 2017

SITE PLAN





TABLE, CHAIRS AND SEPARATE HEAVY UMBRELLA



NYC STANDARD CITYRACK



BIG BELLY RECYCLING & TRASH BINS



NYC STANDARD CITYBENCH



NYC STANDARD WAYFINDING



PIGMENTED CONCRETE WITH SILICON CARBIDE TREATMENT 5FTX5FT SCORING



NYC DOT STANDARD MOVE-ABLE PLANTER WITH SMALL TREE

NEXT STEPS

4

NEXT STEPS

- Fall 2017 implementation of DOT Street Improvement Project at Flatbush Ave and Atlantic Ave
- Spring 2018 construction of Times Plaza
- Perform onsite observations to further develop comprehensive plan following implementation
- Analyze transit patterns and identify ways to improve bus operations
- Continue to improve bicycle network connections
- Advance comprehensive plan as development and capital funding is secured



THANK YOU!

Questions?



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