

# West Broadway & Church Street

## Bicycle Facilities





# Background

- Lack of inland bicycle routes between Greenwich Village and lower Manhattan
- Lack of continuous north/south bicycle routes to Union Square
- W. Broadway, Church St and Varick St are already used by cyclists even without a bicycle facility



# Project Map





# Existing: Church St at Duane St

## Weekday Peak Period Bike Volumes

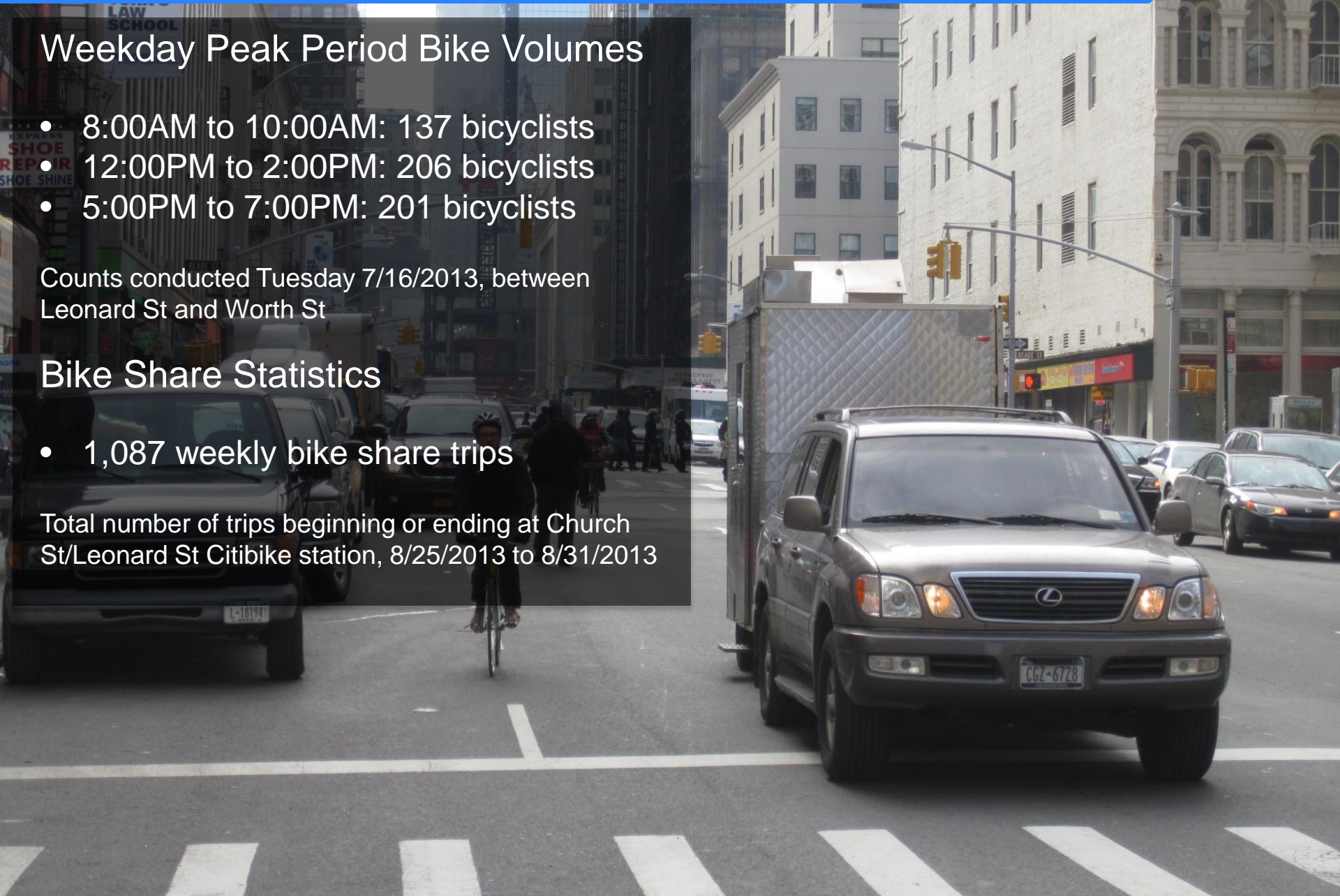
- 8:00AM to 10:00AM: 137 bicyclists
- 12:00PM to 2:00PM: 206 bicyclists
- 5:00PM to 7:00PM: 201 bicyclists

Counts conducted Tuesday 7/16/2013, between Leonard St and Worth St

## Bike Share Statistics

- 1,087 weekly bike share trips

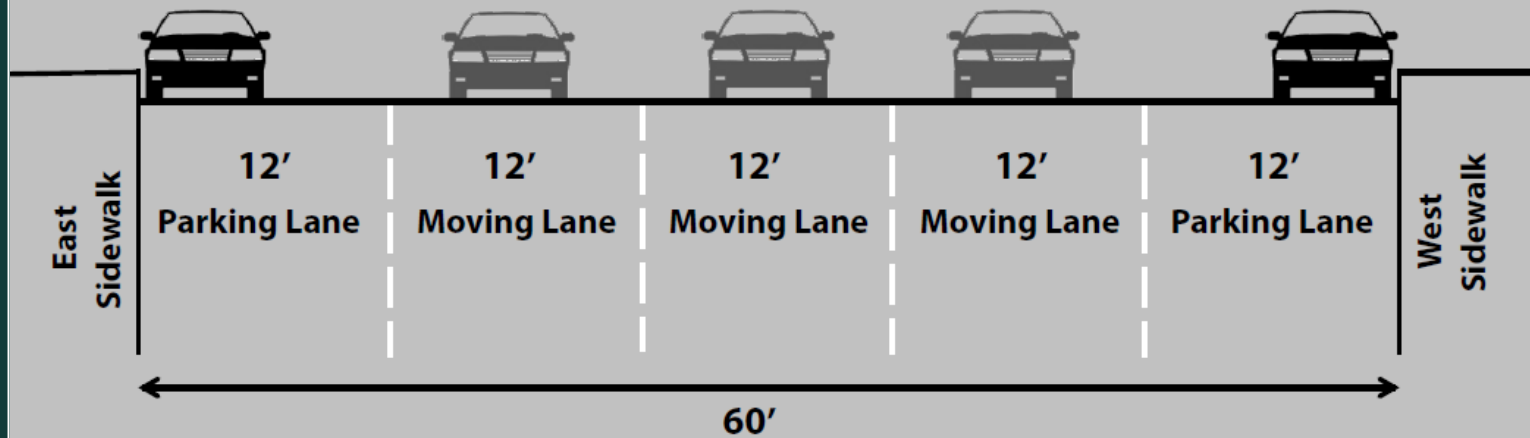
Total number of trips beginning or ending at Church St/Leonard St Citibike station, 8/25/2013 to 8/31/2013



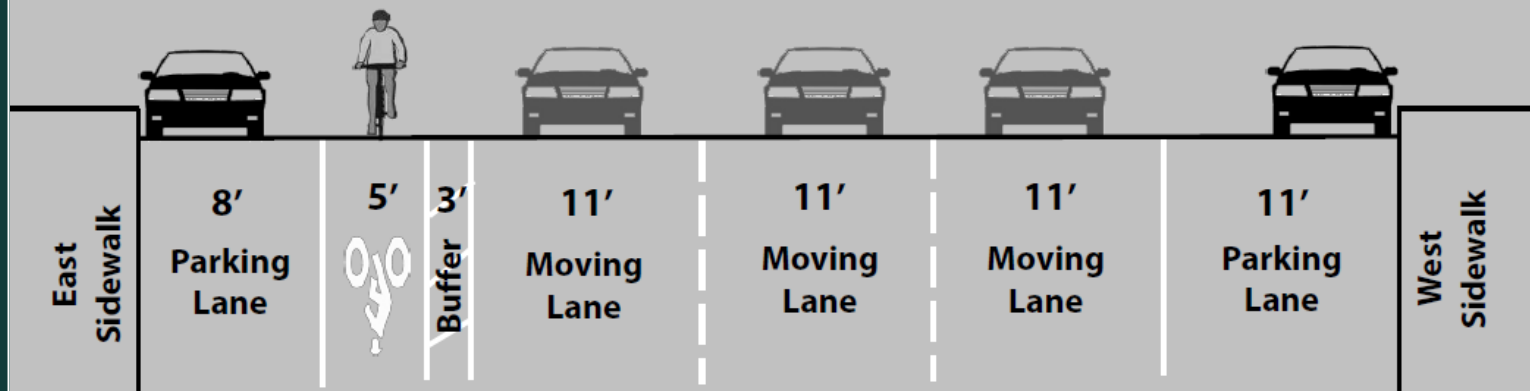


# Proposed: Church St, Warren St to Franklin St

## EXISTING



## PROPOSED





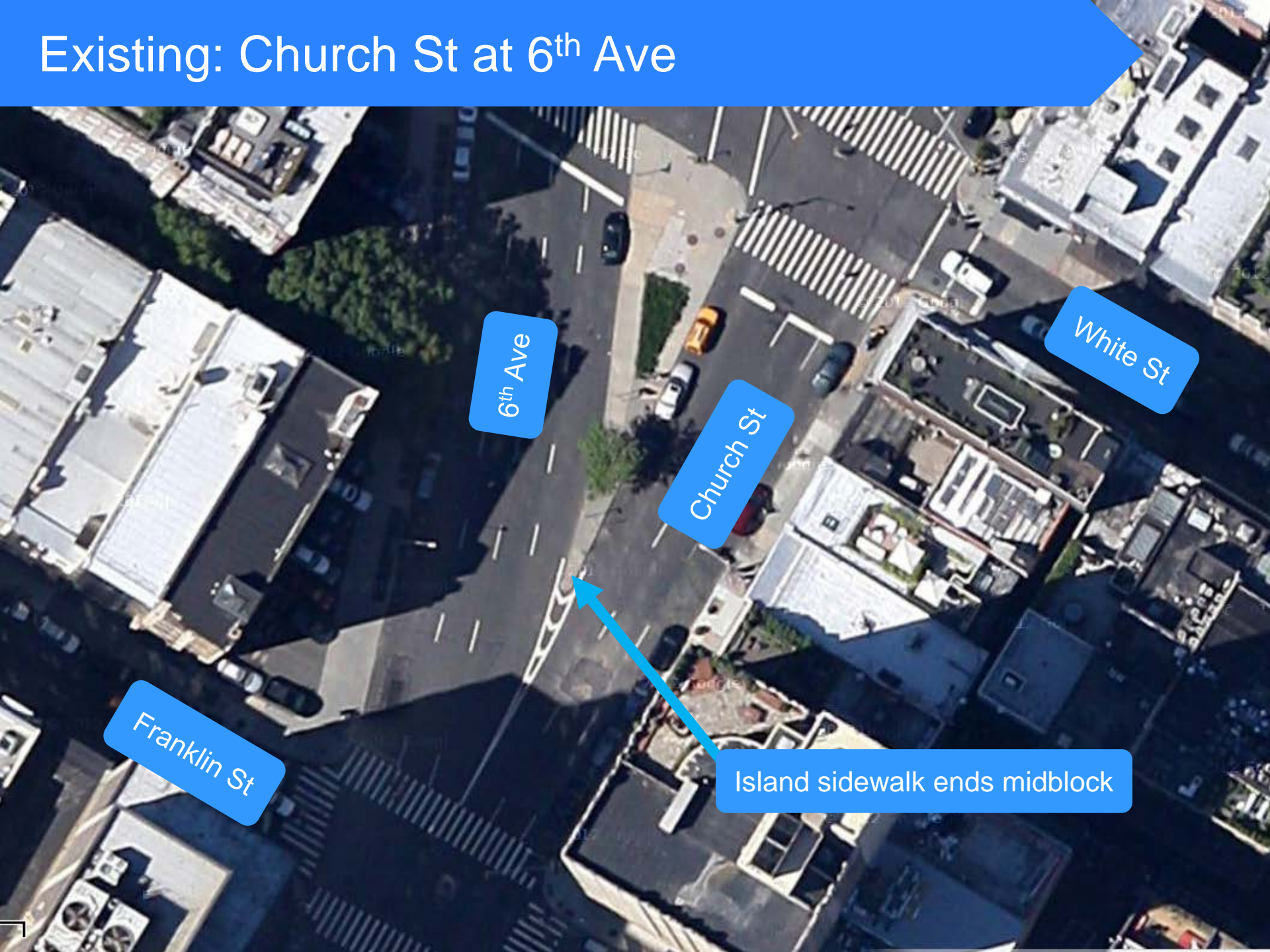
# Example of Buffered Bike Lane



Warren St, Manhattan



# Existing: Church St at 6<sup>th</sup> Ave





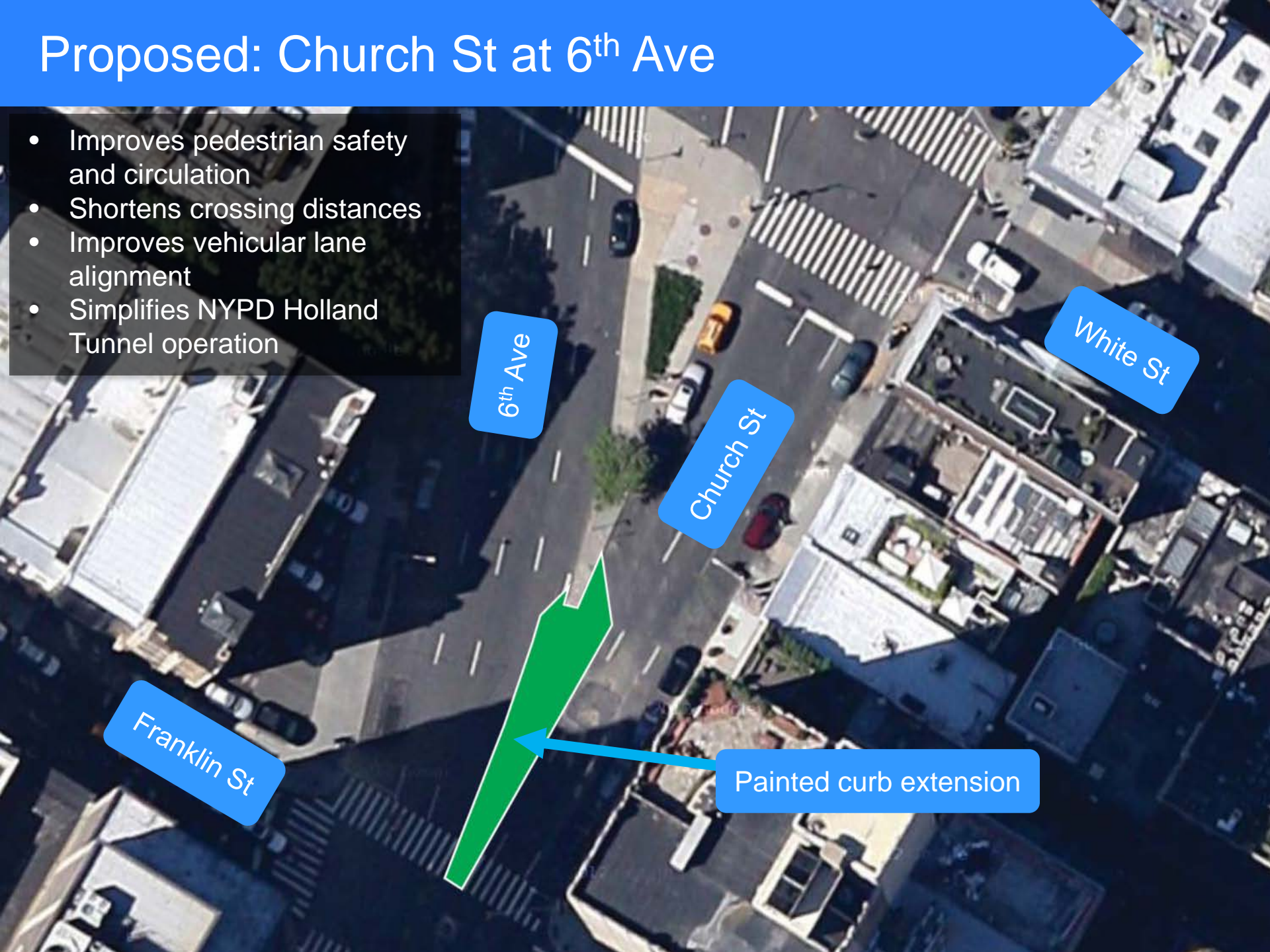
# Existing: Church St at 6<sup>th</sup> Ave





# Proposed: Church St at 6<sup>th</sup> Ave

- Improves pedestrian safety and circulation
- Shortens crossing distances
- Improves vehicular lane alignment
- Simplifies NYPD Holland Tunnel operation



6<sup>th</sup> Ave

Church St

White St

Franklin St

Painted curb extension



# Example of Painted Curb Extension



Broadway at Amsterdam Avenue, Manhattan

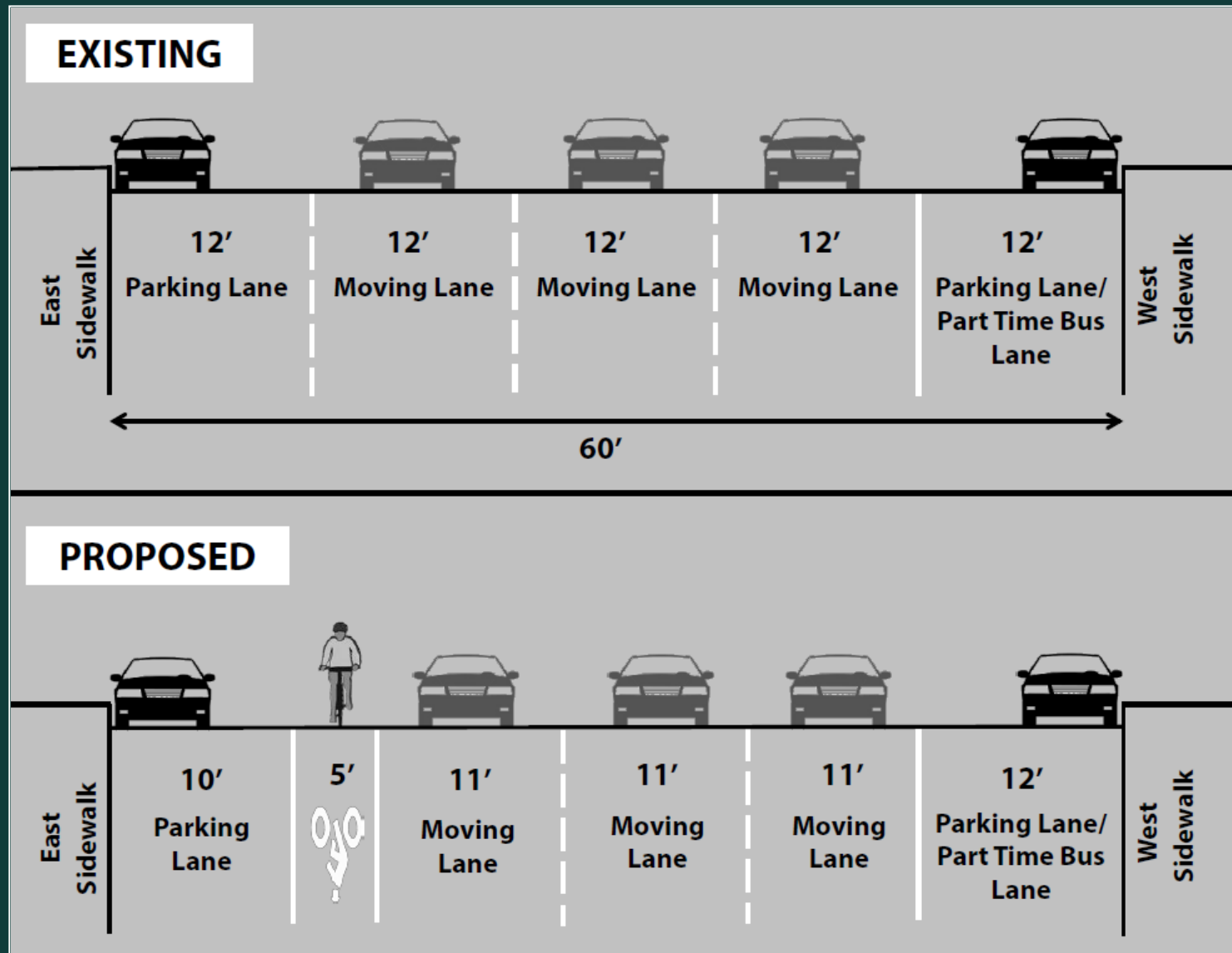


# Existing: 6<sup>th</sup> Ave at White St





# Proposed: 6<sup>th</sup> Ave, Franklin St to Walker St



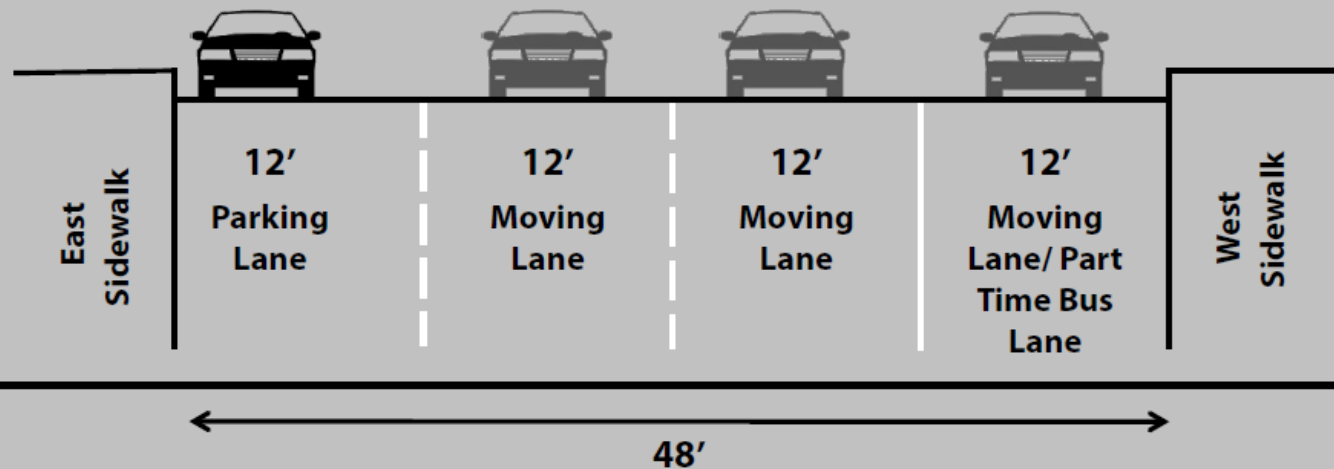
# Existing: 6<sup>th</sup> Ave at W. Broadway



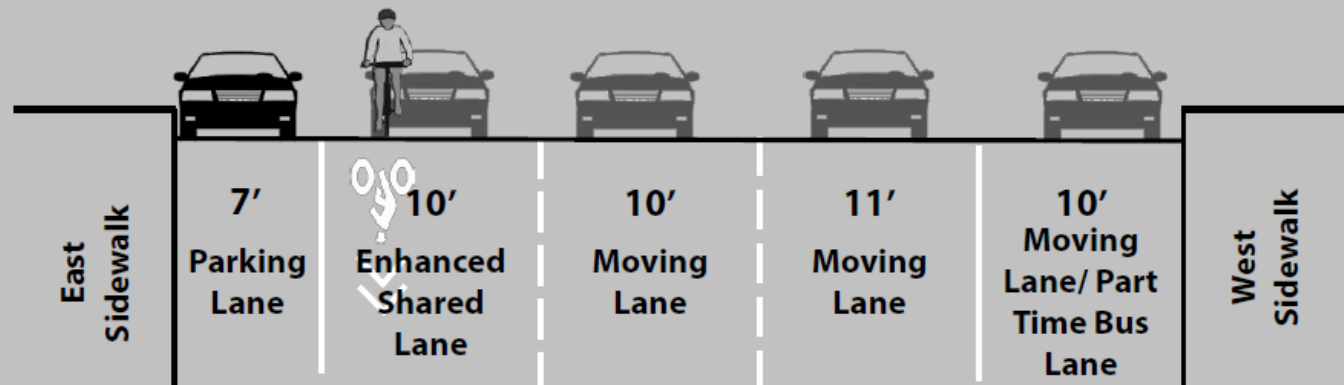


# Proposed: 6<sup>th</sup> Ave, Walker St to W. Broadway

## EXISTING



## PROPOSED



# Example of Enhanced Shared Lane



2nd Ave, Manhattan

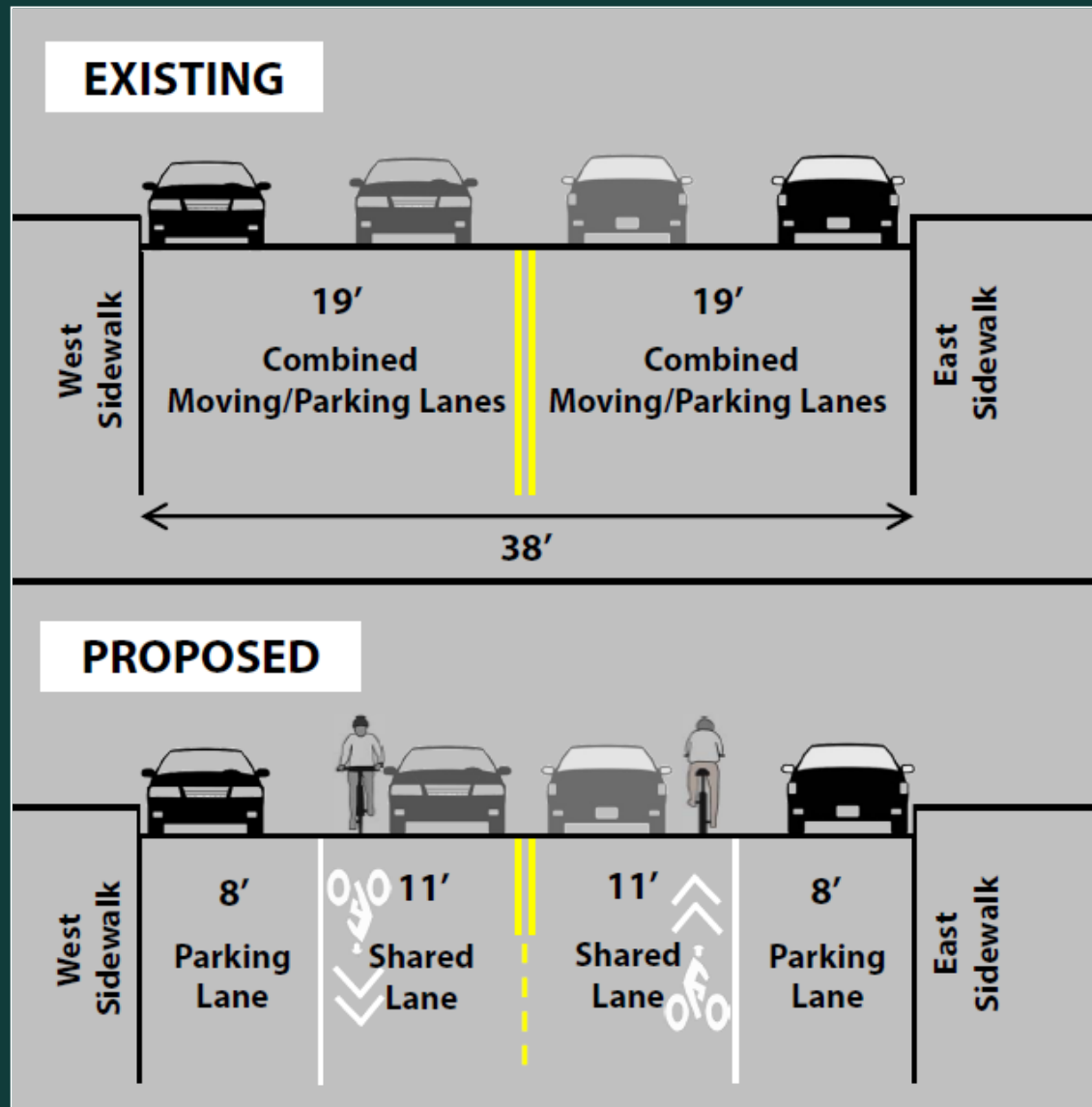


# Existing: W. Broadway at Broome St





# Proposed: W. Broadway and LaGuardia Pl





# Example of Shared Lane



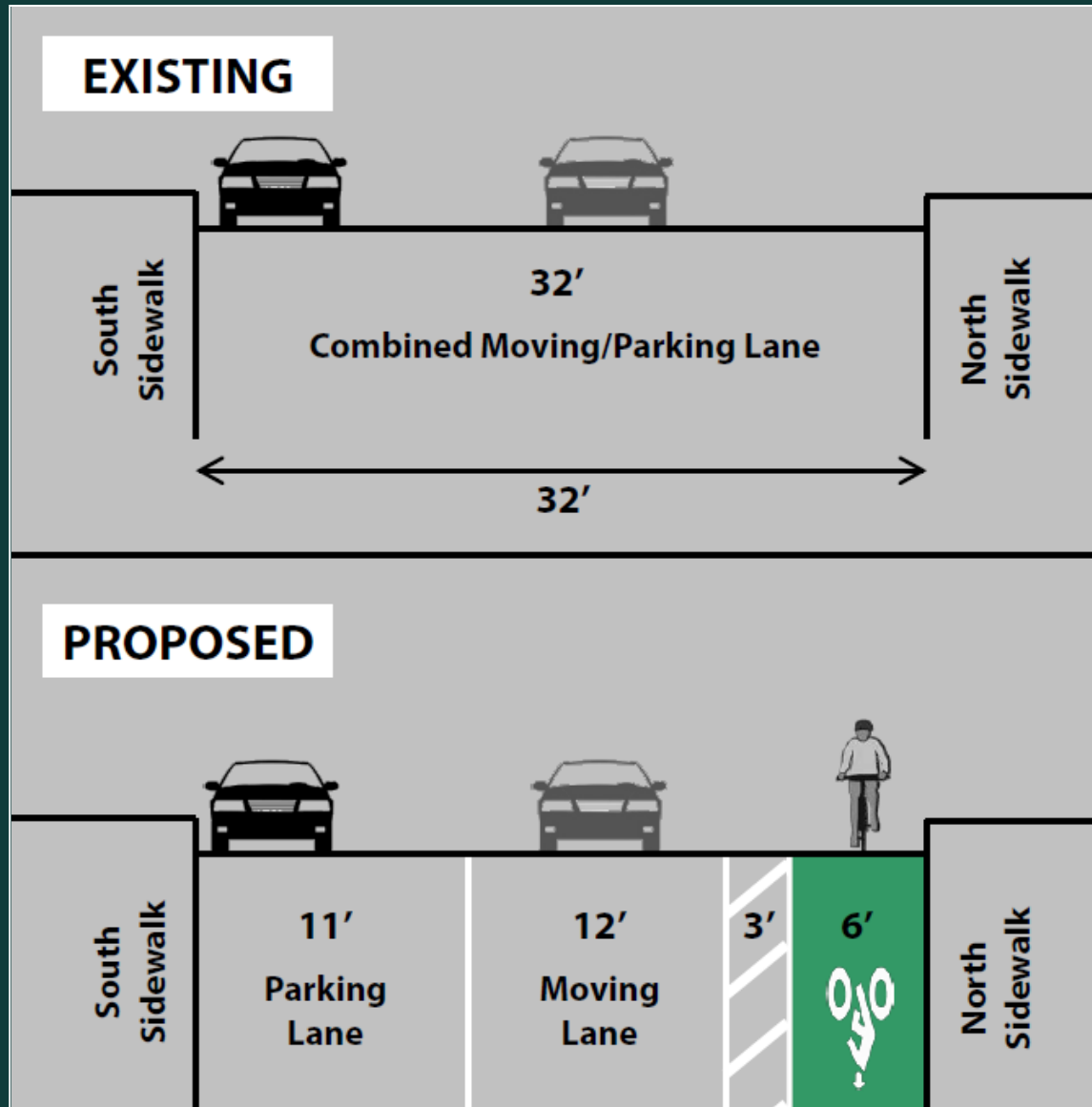
Vanderbilt Ave, Brooklyn



# Existing: Washington Square South



# Proposed: Washington Square South





# Example of Curbside Buffered Bicycle Lane



Washington Sq N



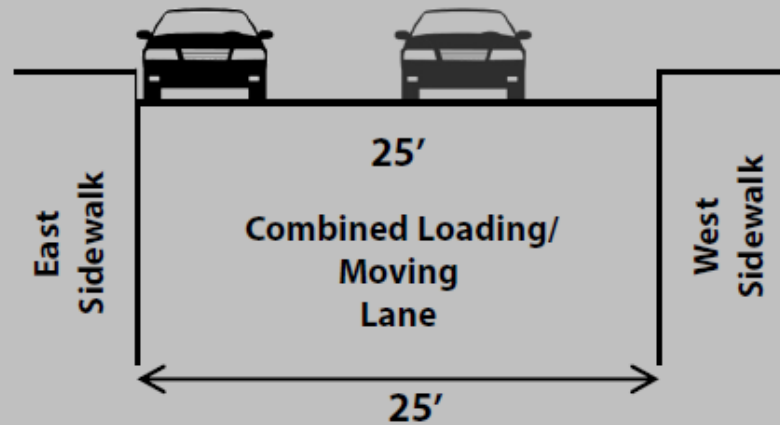
# Existing: Washington Square East



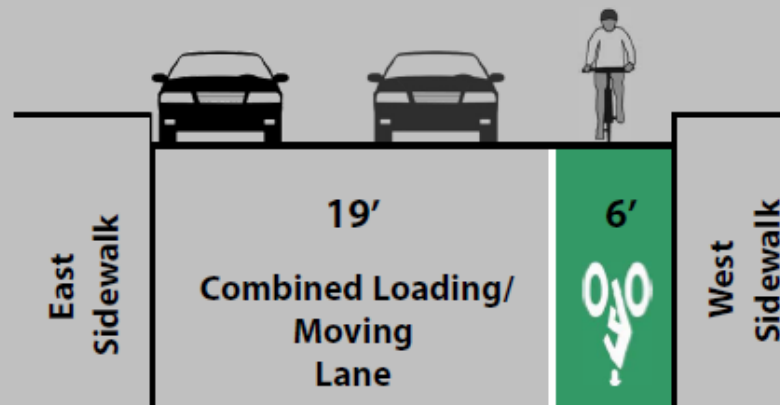


# Proposed: Washington Square East

## EXISTING



## PROPOSED



# Example of Curbside Bicycle Lane



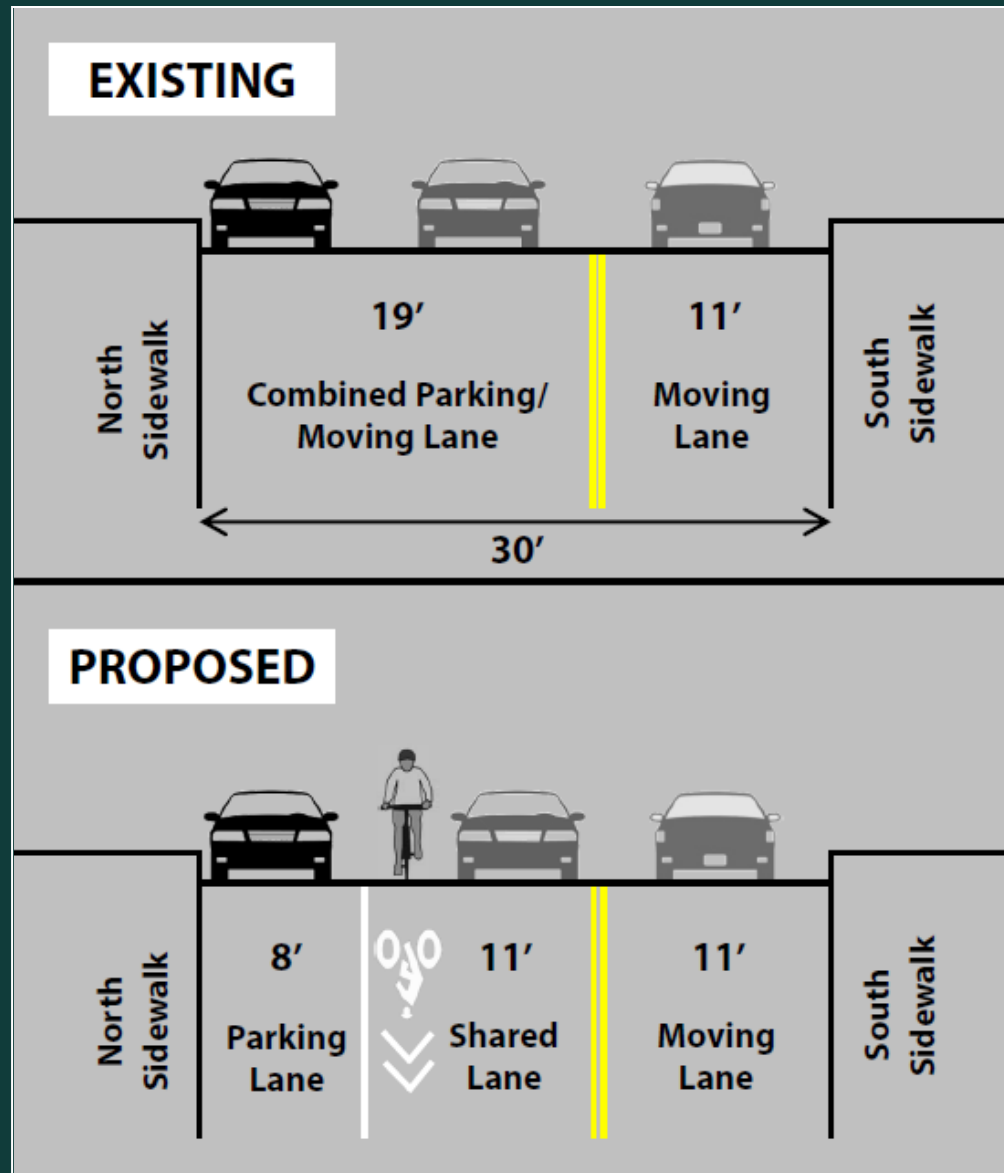
Washington Square West, Manhattan



# Existing: Washington Square North



# Proposed: Washington Square North

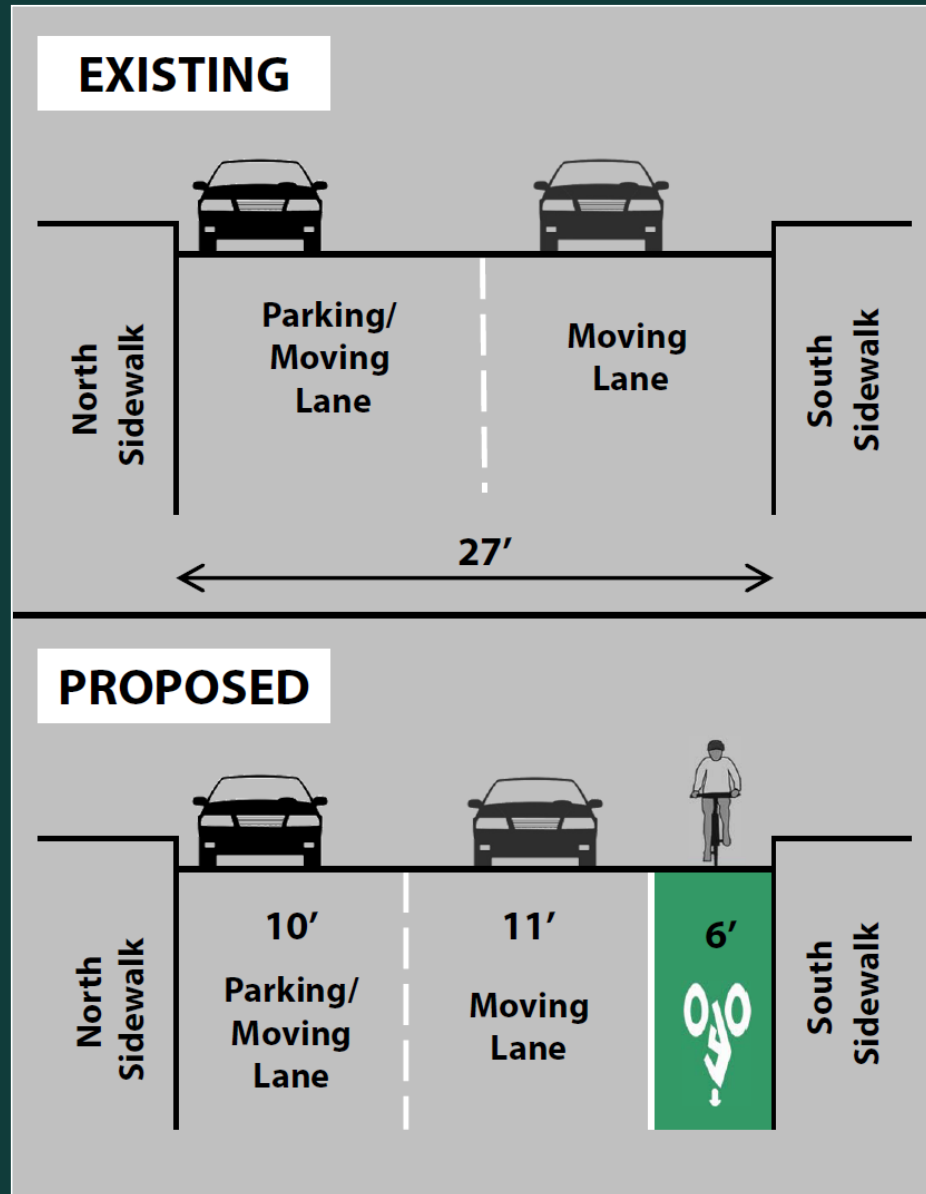




# Existing: Broome St, W. Broadway to Thompson St



# Proposed: Broome St, W. Broadway to Thompson St



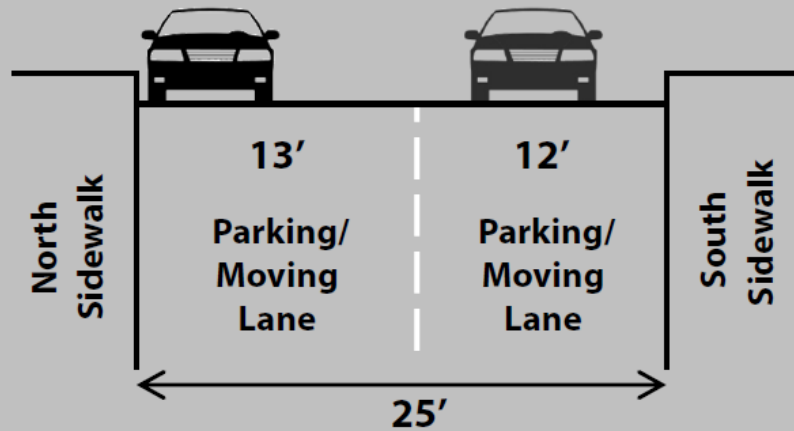


# Existing: Broome St, Thompson St to 6<sup>th</sup> Ave

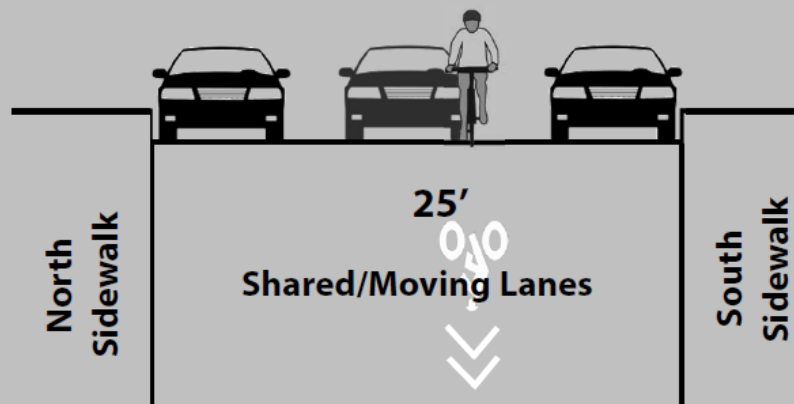


# Proposed: Broome St, Thompson St to 6<sup>th</sup> Ave

## EXISTING



## PROPOSED



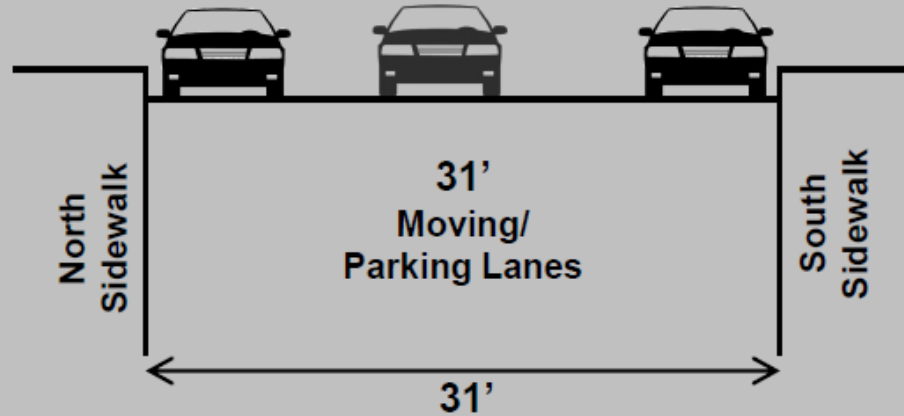


# Existing: Broome St, 6<sup>th</sup> Ave to Varick St

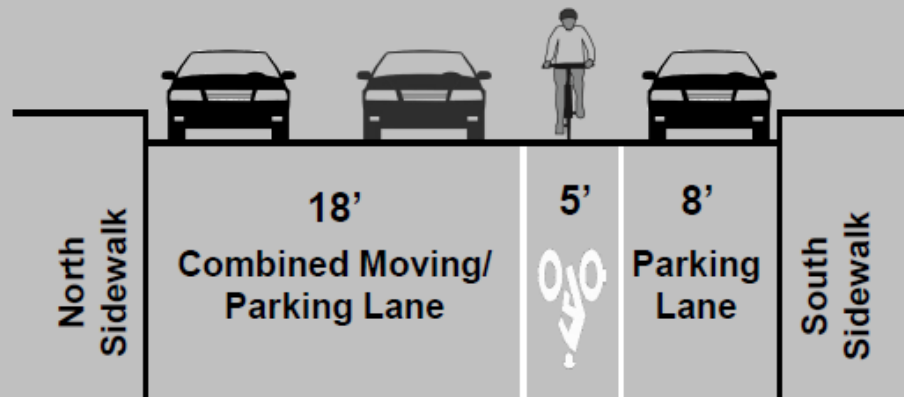


# Proposed: Broome St, 6<sup>th</sup> Ave to Varick St

## EXISTING



## PROPOSED





# Example of Bicycle Lane



Reade St, Manhattan



# Existing: Varick St, Broome St to Watts St

## Existing Conditions

- East side parking regulations:
  - Muni-meter parking
  - Rush hour travel lane



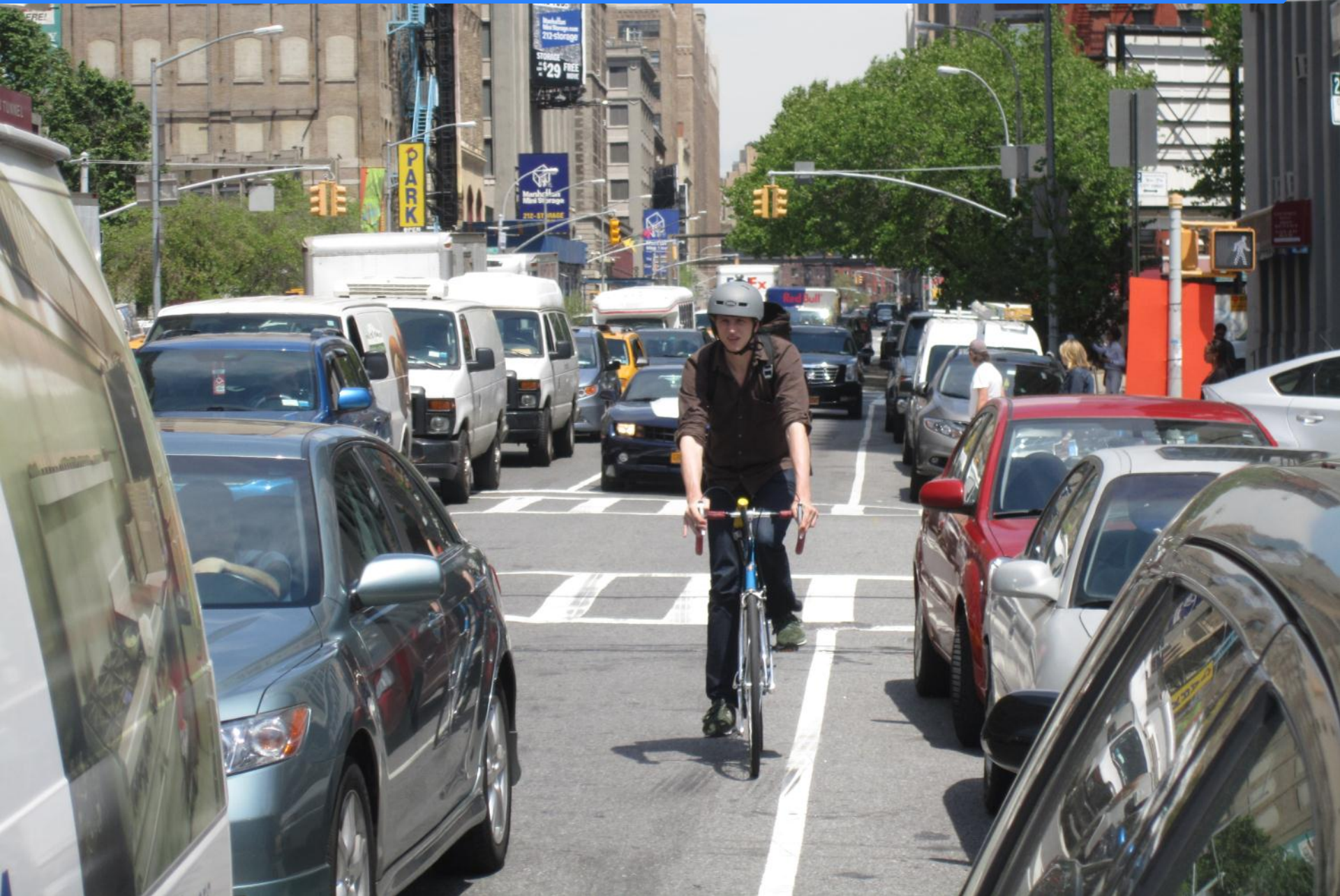


# Example of Signed Route





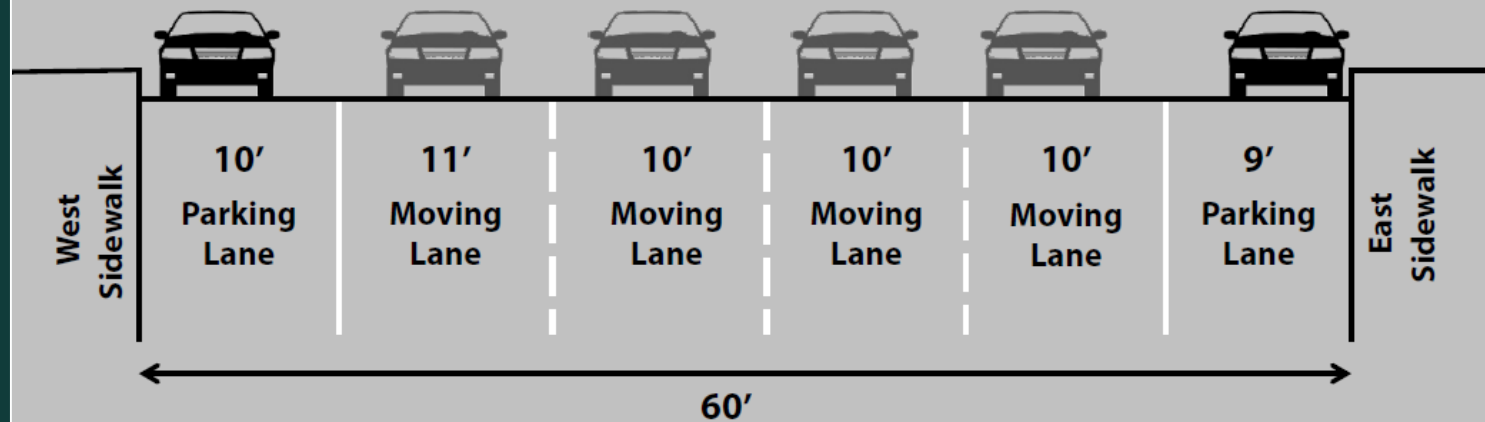
# Existing: Varick St, Watts St to Canal St



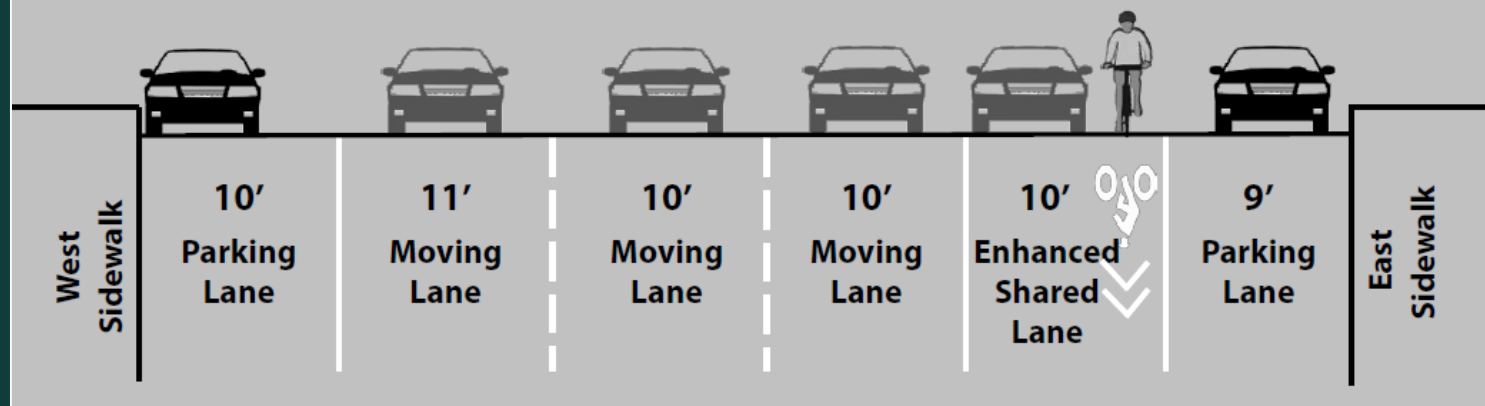


# Proposed: Varick St, Watts St to Canal St

## EXISTING



## PROPOSED



# Existing: Varick St at Canal St



## Existing Conditions

- Cobblestone roadway

## Weekday Peak Period Bike Volumes

- 8:00AM to 10:00AM: 49 bicyclists
- 12:00PM to 2:00PM: 114 bicyclists
- 5:00PM to 7:00PM: 66 bicyclists
- 45% of bicyclists were observed using the sidewalk

Counts conducted Tuesday day 9/3/2013, between Canal St and Laight St

## Bike Share Statistics

- 1,207 weekly bike share trips

Total number of trips beginning or ending at 6<sup>th</sup> Ave/Canal St Citibike station, 8/25/2013 to 8/31/2013



# Proposed Granite Bikeway



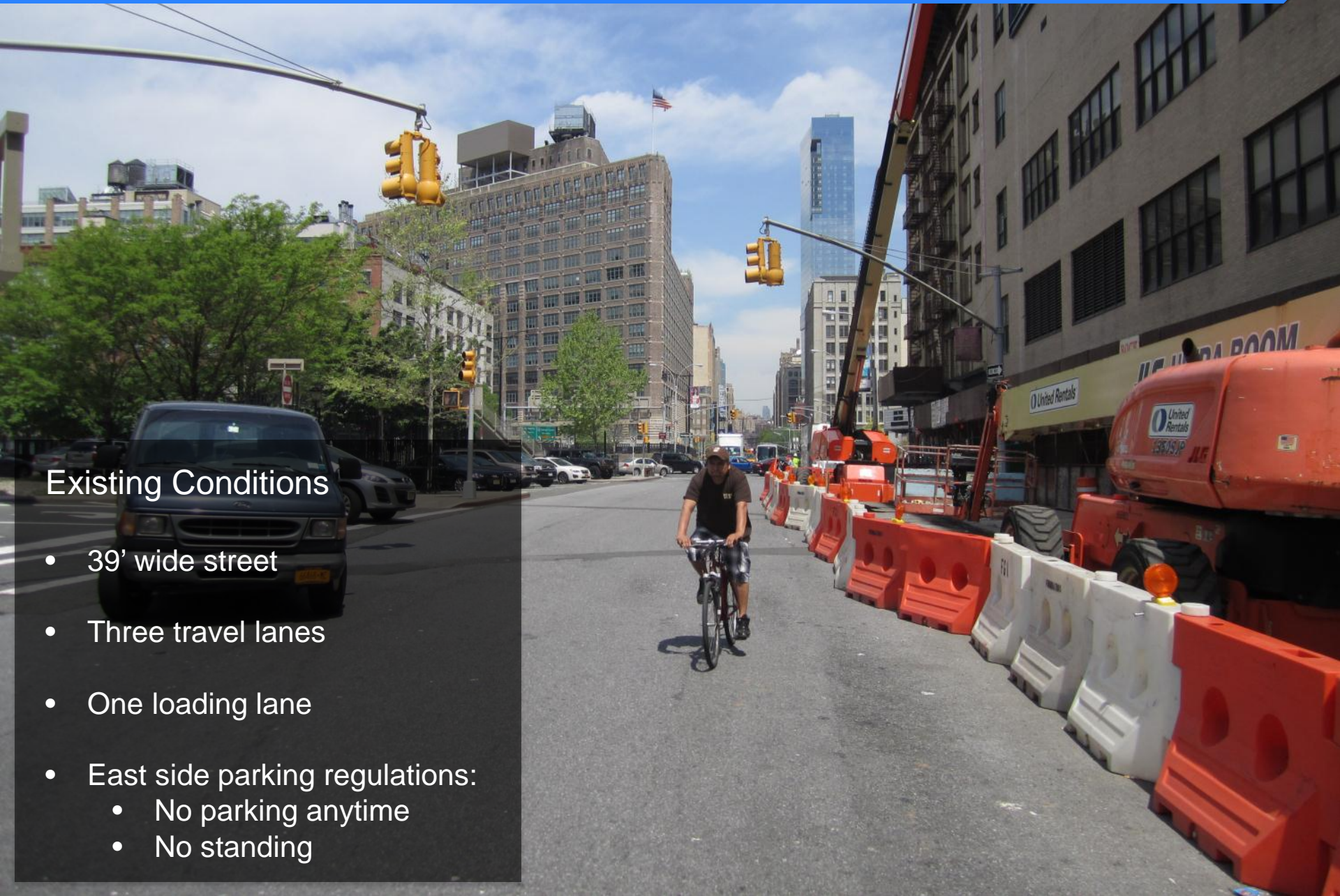
- 30" wide granite pavers
- Preserves historic character



# Existing: Varick St at Laight St

## Existing Conditions

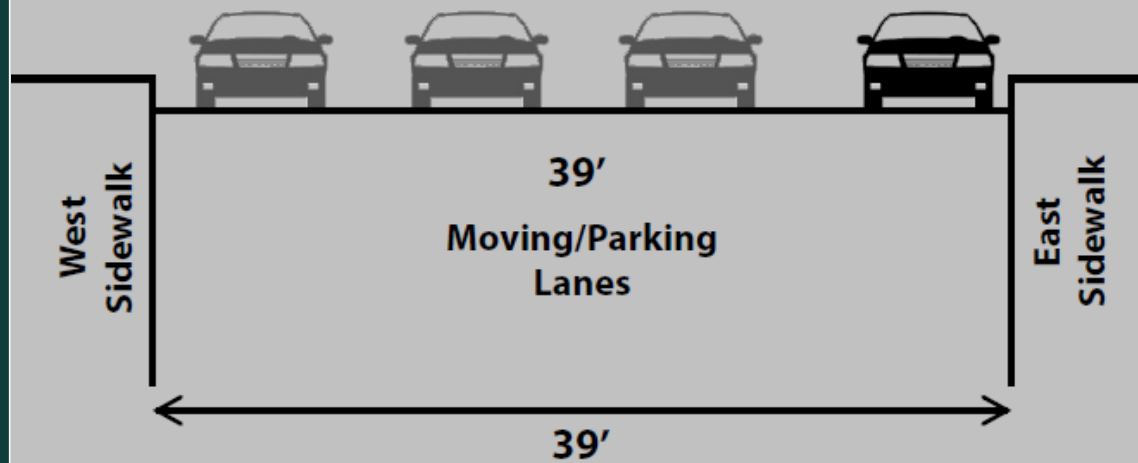
- 39' wide street
- Three travel lanes
- One loading lane
- East side parking regulations:
  - No parking anytime
  - No standing



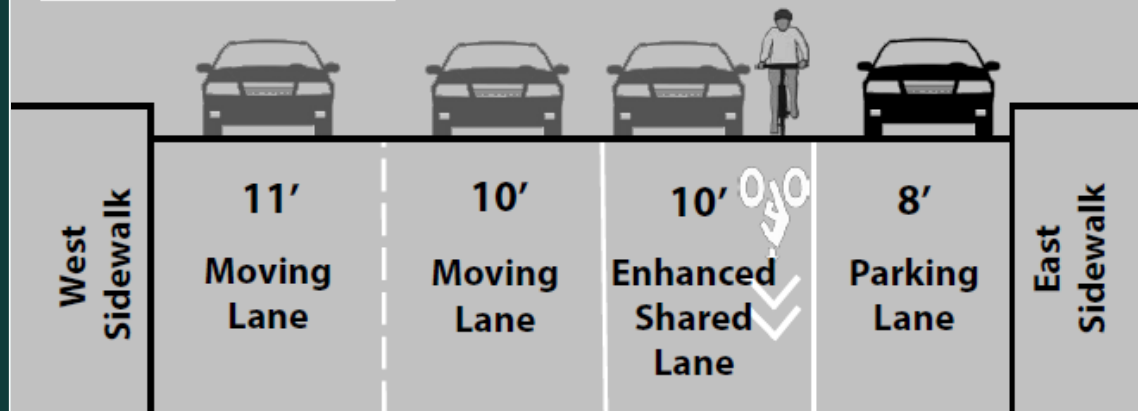


# Proposed: Varick St, Laight St to Beach St

## EXISTING



## PROPOSED



# Existing: Varick St at N. Moore St

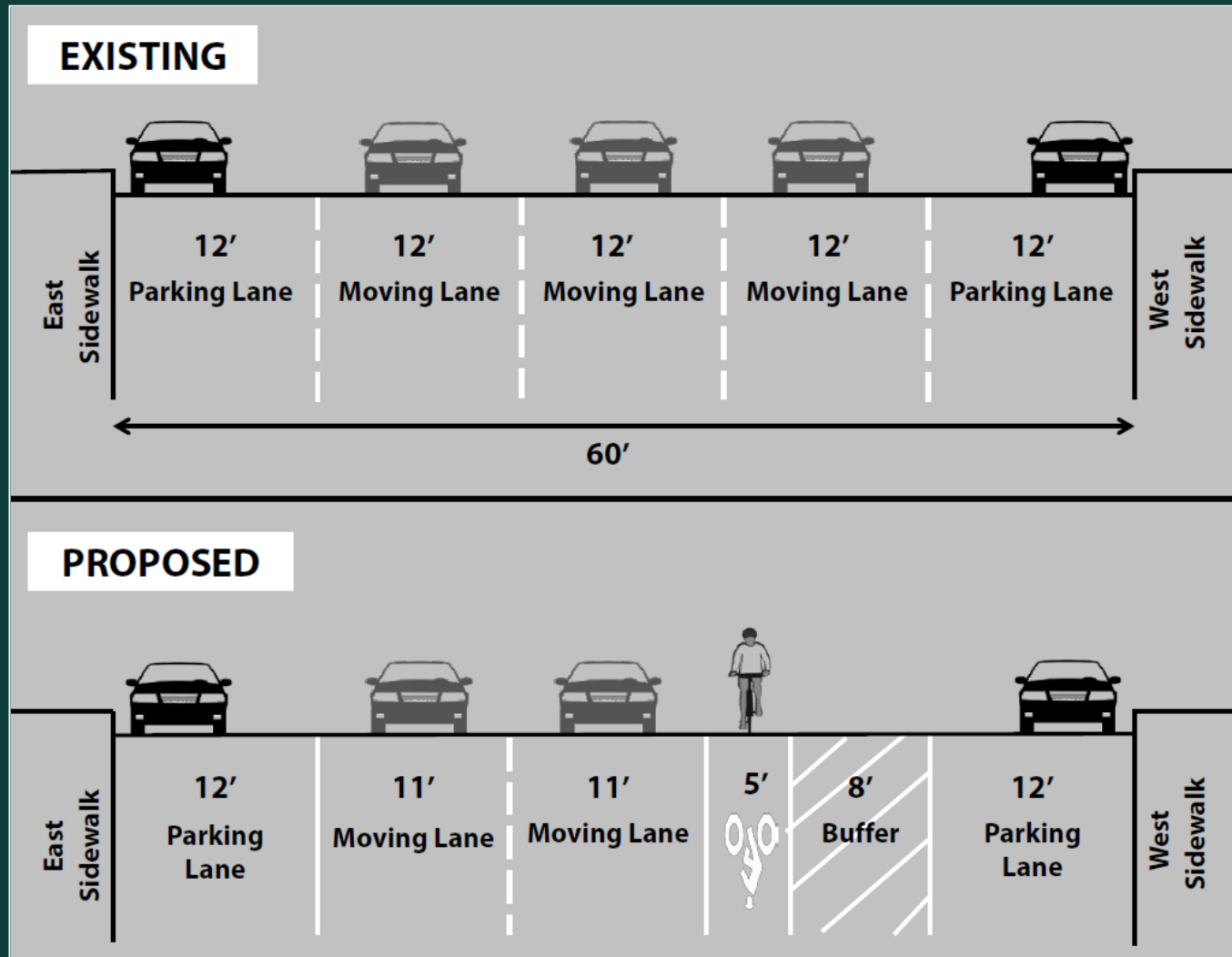
## Existing Conditions (varies)

- 60' wide street
- Three travel lanes
- Two loading lanes
- Periodic turn lanes and bus stops
- Parking regulations:
  - No parking 8am-6pm





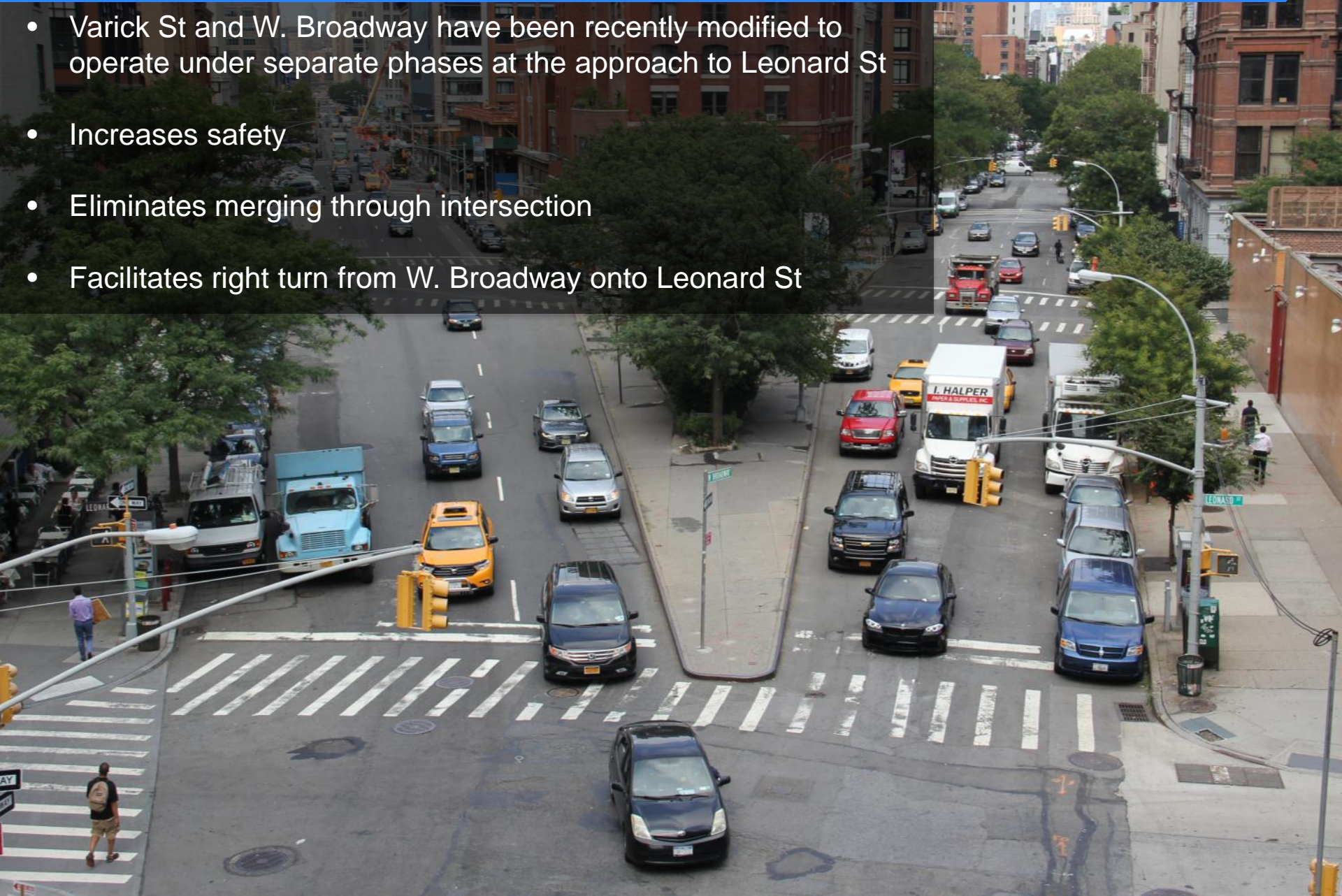
# Proposed: Varick St, Beach St to W. Broadway



Configuration varies slightly as a result of turn lanes, bus stops and Finn Square

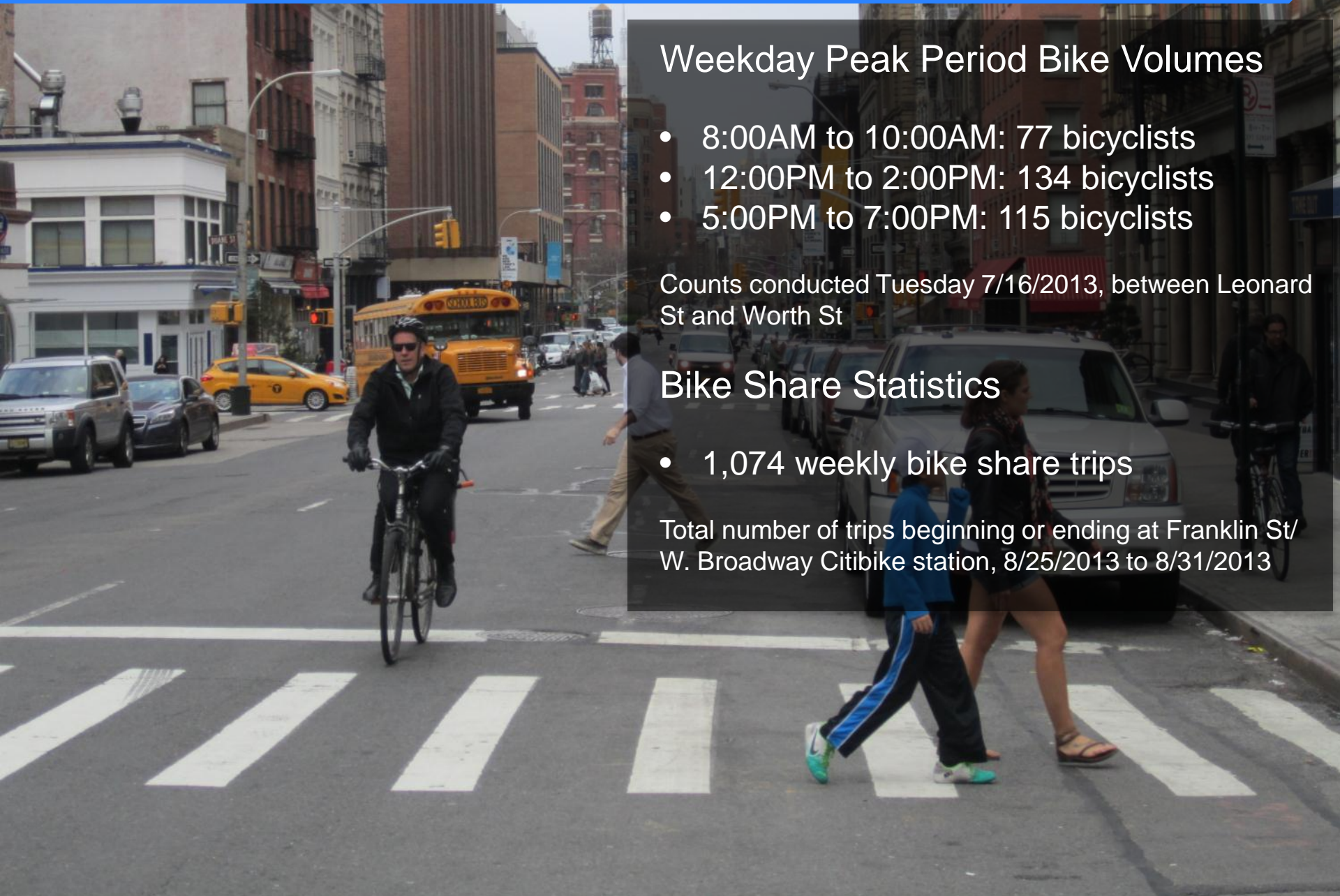
# Signal Improvements: Varick St and W. Broadway

- Varick St and W. Broadway have been recently modified to operate under separate phases at the approach to Leonard St
- Increases safety
- Eliminates merging through intersection
- Facilitates right turn from W. Broadway onto Leonard St





# Existing: W. Broadway at Duane St



## Weekday Peak Period Bike Volumes

- 8:00AM to 10:00AM: 77 bicyclists
- 12:00PM to 2:00PM: 134 bicyclists
- 5:00PM to 7:00PM: 115 bicyclists

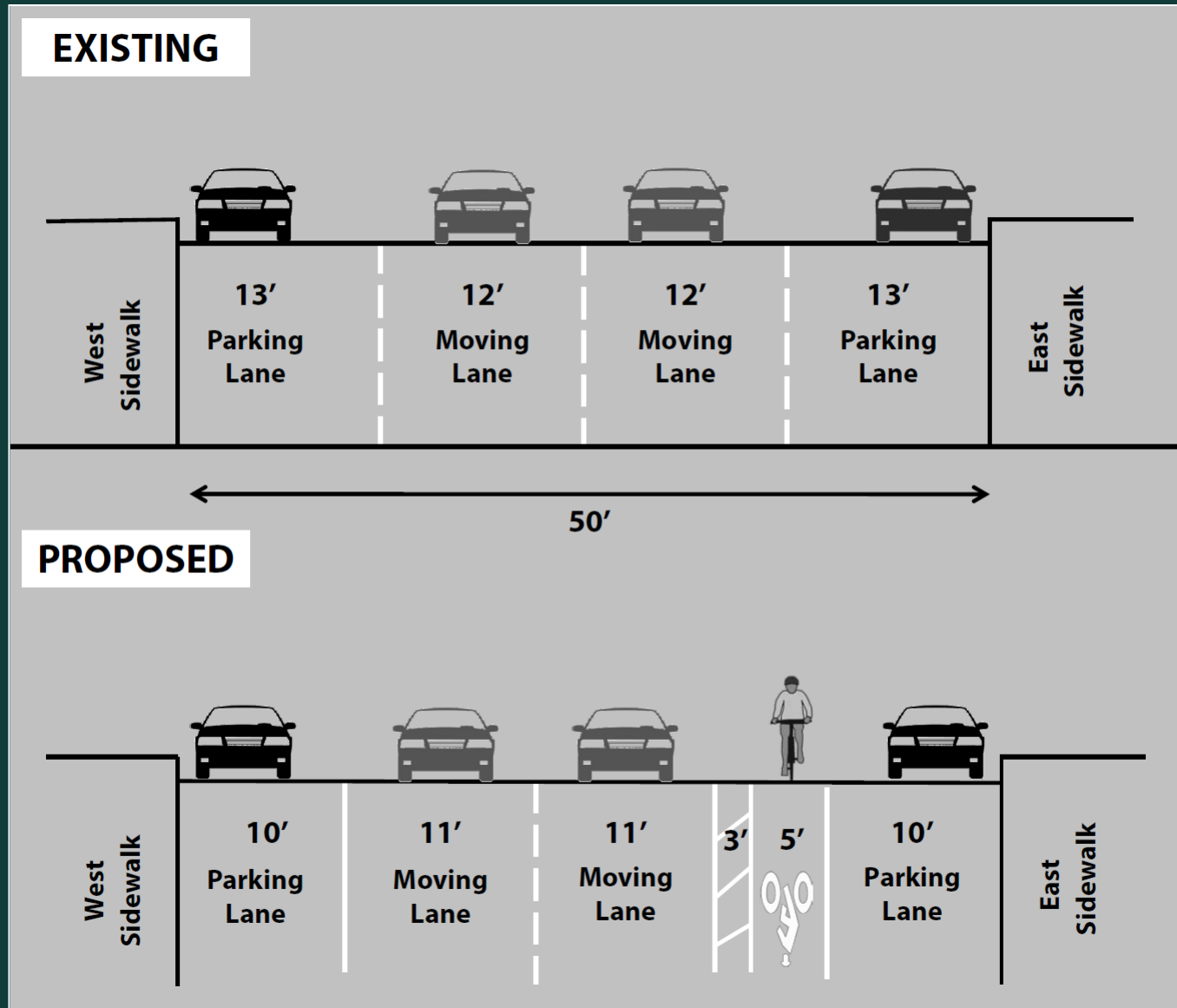
Counts conducted Tuesday 7/16/2013, between Leonard St and Worth St

## Bike Share Statistics

- 1,074 weekly bike share trips

Total number of trips beginning or ending at Franklin St/ W. Broadway Citibike station, 8/25/2013 to 8/31/2013

# Proposed: W. Broadway, Beach St to Warren St





# Proposed Bicycle Facilities

- Church St from Warren St to Franklin St: buffered bicycle lane
- 6<sup>th</sup> Ave from Franklin St to Walker St: bicycle lane
- 6<sup>th</sup> Ave from Walker St to W. Broadway: enhanced shared lane
- Varick St from Canal St to Laight St: granite bikeway
- Varick St from Laight St to Beach St: enhanced shared lane
- Varick St from Beach St to W. Broadway: bicycle lane
- W. Broadway from Beach St to Warren St: buffered bicycle lane

# Summary of Benefits

- Organizes traffic
- Provides a bicycle route between Greenwich Village and lower Manhattan
- Supports short local trips by bike
- Improves pedestrian circulation and safety at Church St/6<sup>th</sup> Ave/Franklin St
- No planned parking removal
- Planned implementation in October 2013
  - Granite bikeway Spring 2014



Questions?

Thank  
You