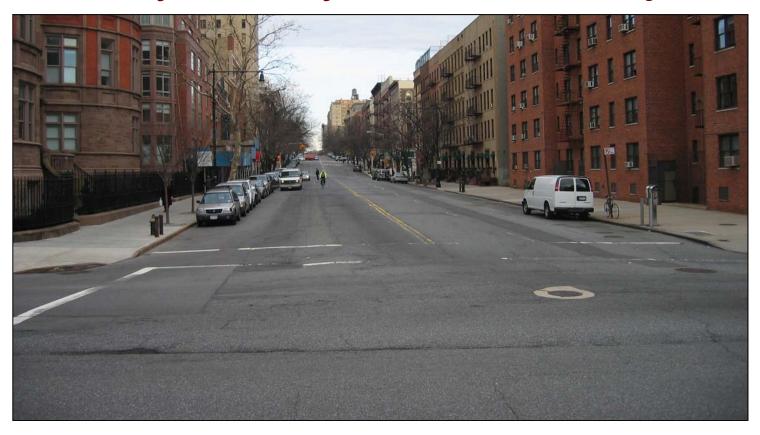
# West 106<sup>th</sup> Street Safety & Bicycle Lane Project





# Why are we here?

- Bicycle Fatality & Serious
   Injury Study Improve Safety
- Mayor's PlaNYC A Greener Transportation Network
- 1997 Bicycle Master Plan



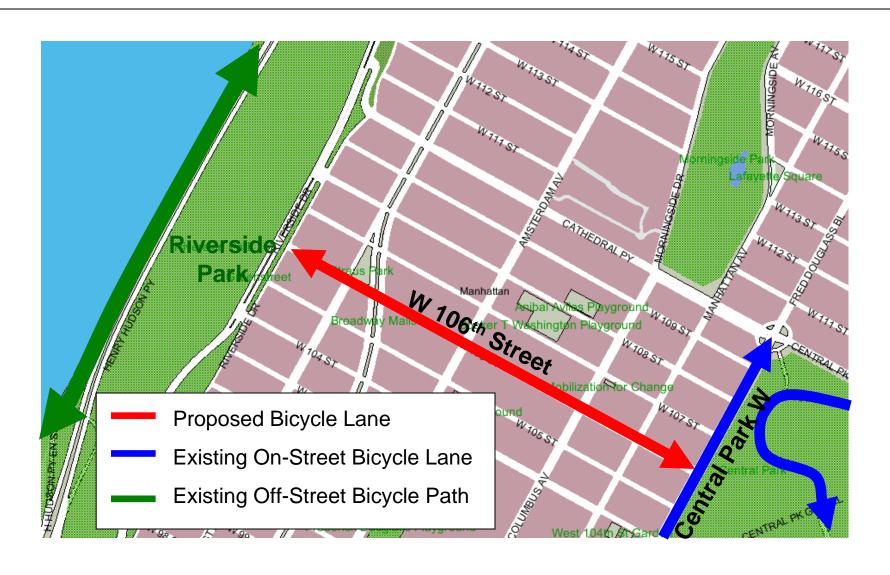
### NYC DOT Bicycle Program

- 200 Mile, 3 Year
   Bicycle Route
   Commitment
- Targeting Areas of High Demand & Key Connections
- Design Approach:
  - 1. Study Best Practices
  - Develop Innovative
     Designs for Constrained
     NYC Environment
  - 3. "Complete Streets" Design Philosophy



<u>Central Park Loop Drive:</u> Connecting to major cycling destinations like Central Park is a key part of the PlaNYC bicycle initiative.

### W 106<sup>th</sup> Street Project Map



# W 106th Street Design Approach

- Creating Dedicated
   Cycling Space
- 2. Improving Intersection Safety
- 3. Traffic Calming for All Street Users



Project Goal: A Safer and More Comfortable W 106<sup>th</sup> Street Corridor for <u>ALL</u> Street Users

# 1. Creating Dedicated Cycling Space

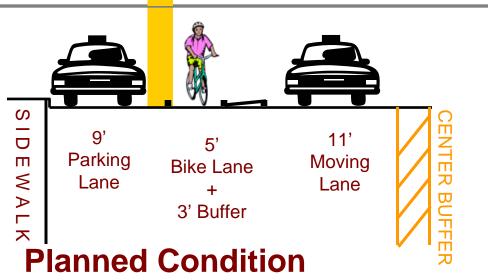
# SIDE WALK 8' Parking Lane 11' 11' Moving Moving Lane CENTERLINE CENTERLINE

### Cyclists Ride in "Door Zone"

- Dangerously close passing
- Threat of dooring
- Pedestrians dart out from in between cars
   -OR-

### Cyclists Ride in Moving Lane

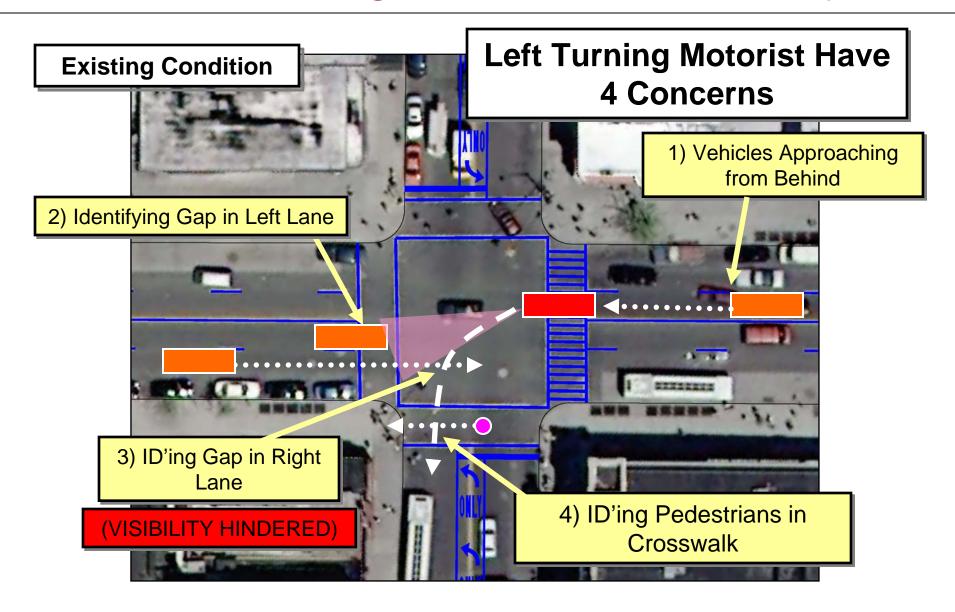
- Honking
- Lane changes
- Aggressive driving



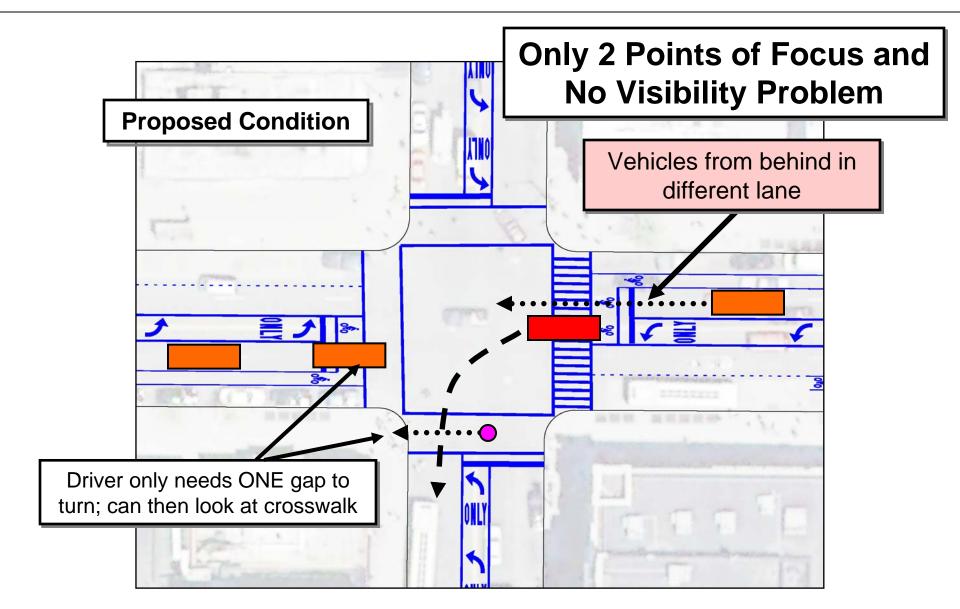
### Cyclists Ride in Dedicated Space

- Bike lane and buffer provide safe passing distance
- 9' parking lane + ½ of bike lane puts cyclists out of door zone
- Organizes street use and calms driver behavior

# 2. Improving Intersection Safety



# 2. Improving Intersection Safety



### 2. Improving Intersection Safety

# **Turning Conflicts at Intersections are Problematic**

- 9 of 10 NYC cyclist fatalities
- 8 of 10 NYC cyclist serious injuries

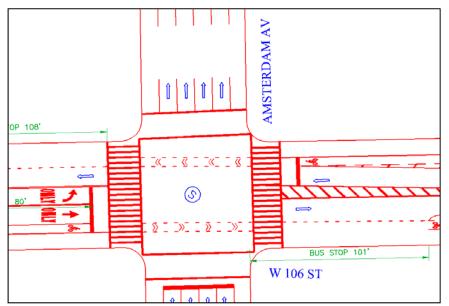
### **Existing Conditions**

No Guidance at Intersections

### **Planned Conditions**

- Bicycle lanes increase driver's visibility and awareness of cyclists
- Intersection markings highlight potential conflict





### 3. Traffic Calming for All Street Users

### **Existing Conditions**

### **Excess road space**

- Speeding
- Reckless driving/unpredictable lane changes



### **Planned Conditions**

### Design matches capacity to need

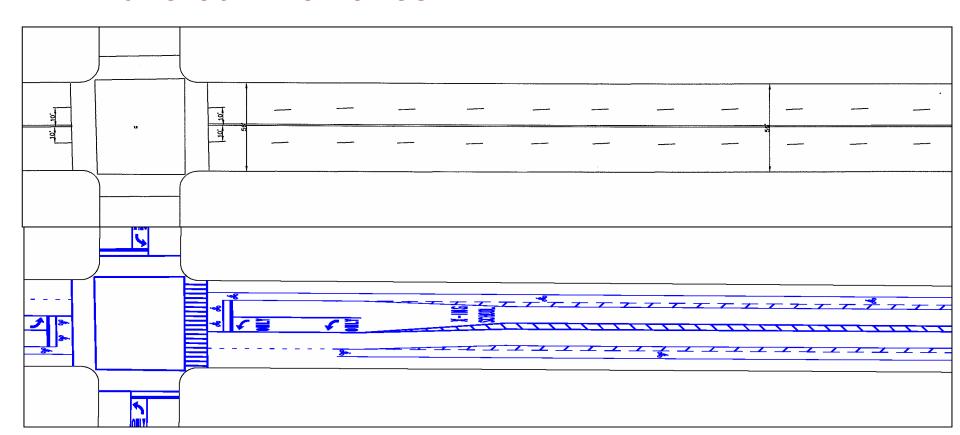
- Fewer opportunities to speed
  - Lead vehicle sets pace
- Buffer markings define moving lane, calm traffic



# W 106<sup>th</sup> Street Design Summary

### 4 Lane to 3 Lane "Road Diet"

- Left Turn Bays
- Buffered Bike Lanes



# Design Approach for a Complete W 106<sup>th</sup> Street

- Creating Dedicated Cycling Space
- Improving Intersection
   Safety
- Traffic Calming for All Street Users

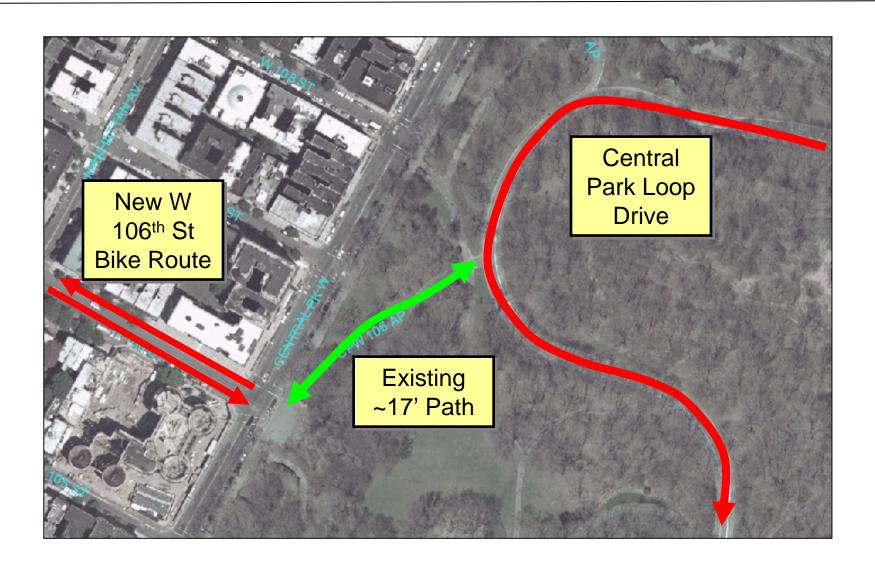




Design Capacity Matches
Need



# Central Park Connection



### Central Park Loop Drive Connection

# Potential for Safe High Quality Link

- Short Path (<500')</li>
- Wide enough for shared bike & ped use (~17')







### Central Park Loop Drive Connection

# Design Considerations & Options

- Entry Points
  - Pedestrian Ramps vs.
     Between
- Signs and Markings for Path Connection
  - Gateway markings
  - Separate lanes for pedestrians and cyclists
  - Separate lanes for directions
- Stakeholder input on options









### **End of Presentation**