



Harlem River Bridges

Access Plan

Workshop Round 3
March 2016



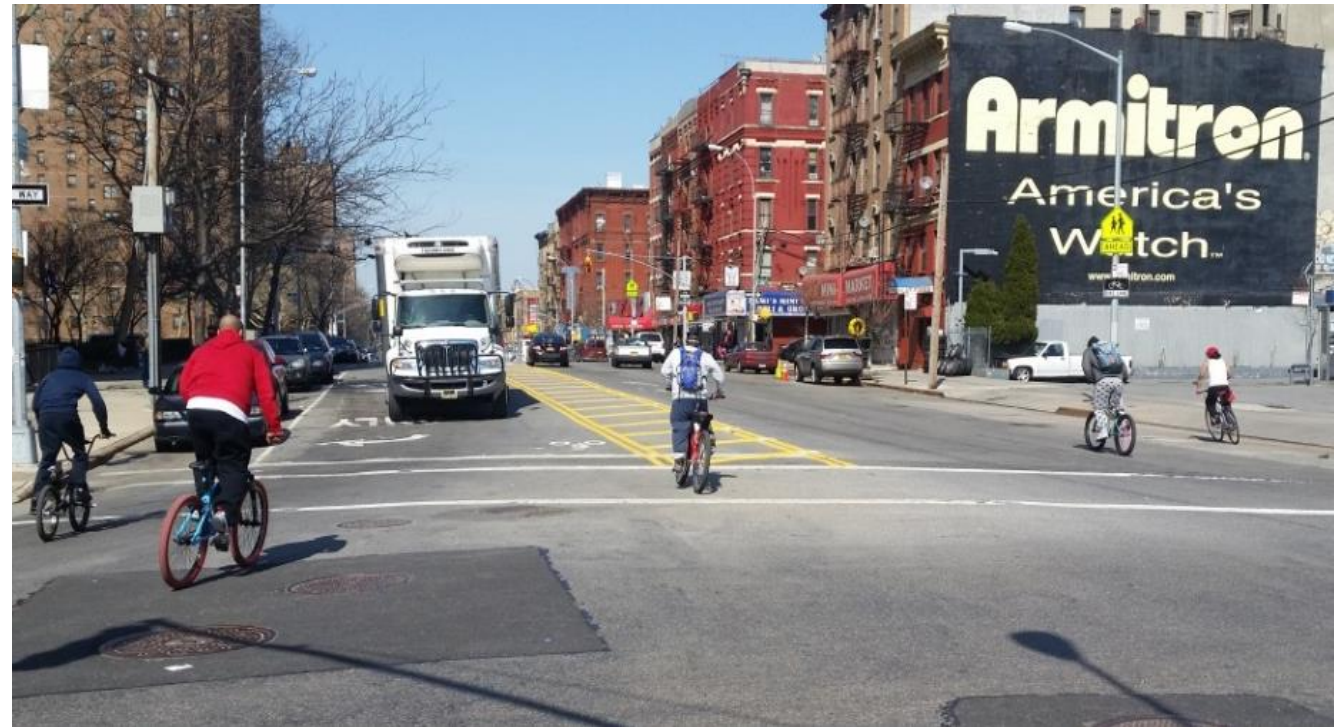
Tonight's Agenda

Presentation:

Background +
overview of project concepts
(15 min)

Participation:

4 bridge area discussions
Comments, questions,
feedback
(20 mins each)



Project Goals

- **Improve safety**
reduce traffic crashes through new street designs
- **Provide safe options**
for commuting and recreation
- **Improve Short and Long Term conditions**
install temporary materials while seeking funding for full capital build-outs

1-3 year plan

5-10 year plan

Short Term

- Develop projects for community board review 2016 - 2018
- Publish comprehensive planning document

Long Term

- Seek funding
- Build capital improvements



Planning Process

2015

Summer

Workshop
Round 1

Bridge
Surveys

2016

Fall

Workshop
Round 2

Spring

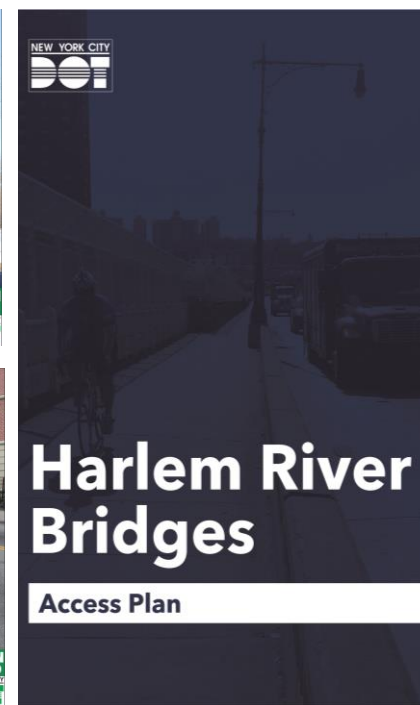
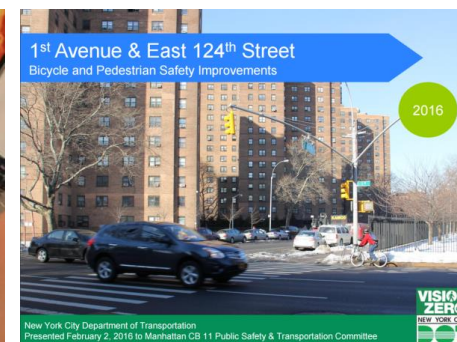
Workshop
Round 3

Summer

Select Projects
presented to
Community
Boards

Fall

Planning
Document
release



All final proposals will be reviewed through the regular
Community Board Process before implementation

Summary of Feedback from Previous Workshops/Surveys

- **Difficult to cross the street** at major intersections near bridge entrances
- **Better wayfinding & connections needed** to major destinations.
- **Better lighting desired** on and near all bridges
- Interest in **new or upgraded bicycle routes** leading to and across Harlem River from network
 - Protected paths preferred where feasible
 - East-West connections emphasized
- **Long-term improvements** to bridges
 - Wider paths preferred where feasible
 - ADA compliance



Outcome: Policy Recommendations

Focus on Vision Zero

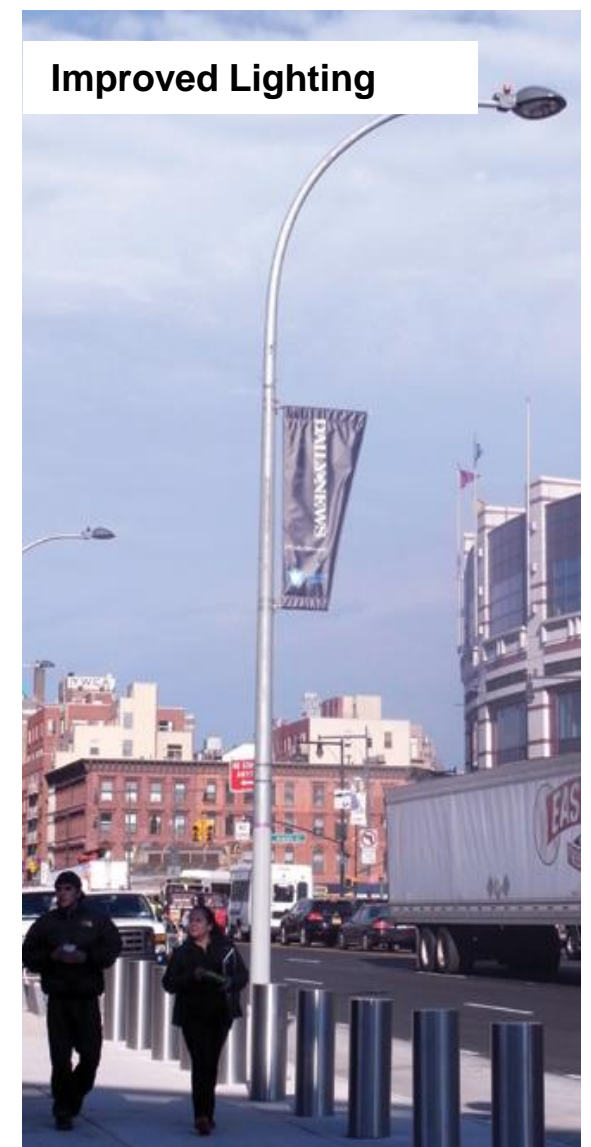
- 18 projects are proposed on VZ priority corridors, intersections and areas

Install Wayfinding

- Install WalkNYC wayfinding signage at bridge entrances
- Install bicycle guide signs on bike routes

Improve Lighting

- Upgrade lighting to LED standard



Outcome: Project Types

Bridge Capital Project:

Proposals to enhance safety + pedestrian and bicycle access across the Harlem River on DOT bridges

Bridge Connector Project:

Short- and long-term potential projects to create safe, comfortable routes to bridge approaches on DOT Right of Way (ROW)

Bicycle Network Project:

Potential new bicycle routes leading to existing or planned on-bridge bicycle connections

Agency Partnership Project:

Potential enhancement to bridge or connection which requires participation by another agency or property owner



Workshop Focus

A Henry Hudson/
Broadway Bridges

B University Heights Bridge

C Washington/ High Bridges

D Macombs Dam Bridge

E 145th St /
Madison Ave Bridges

F 3rd/Willis/Randall's Island
Connector Bridges

G Wards Island Bridge

Geographic Scope:

- 2 project areas: North and South of Macombs Dam (Bronx and Manhattan)
 - Each workshop will focus on one area across 2 boroughs
 - Participants may comment on any project in any area
- Focus on:
 - DOT- owned bridge structures and approaches
 - Safety and access improvements on city streets, corridors within ~1 mile
 - Potential for shorter-term implementation
 - Possible to build with existing resources

Harlem River North Bridges

A Henry Hudson/
Broadway Bridges

B University Heights
Bridge

C Washington/
High Bridges

D Macombs Dam Bridge



Broadway Bridge



Henry Hudson Bridge

Henry Hudson and Broadway Bridges

Feedback

“Pedestrian improvements needed at 240th St”

“W 225th and Bailey is a difficult intersection to cross”

“Cyclists use the sidewalks on the Broadway Bridge”

Bridge Capital Project

1 Broadway Bridge Enhancements

Bridge Connector Projects

2 Van Cortlandt Park Connector (BX)

3 Inwood Connector (MN)

Bicycle Network Projects

A Mosholu-Pelham Greenway Connector (BX)

Agency Partnership Project

i Henry Hudson Bridge Access Improvements (BX/MN)



Existing: Broadway, facing south

1 Broadway Bridge Enhancements

Short term improvement

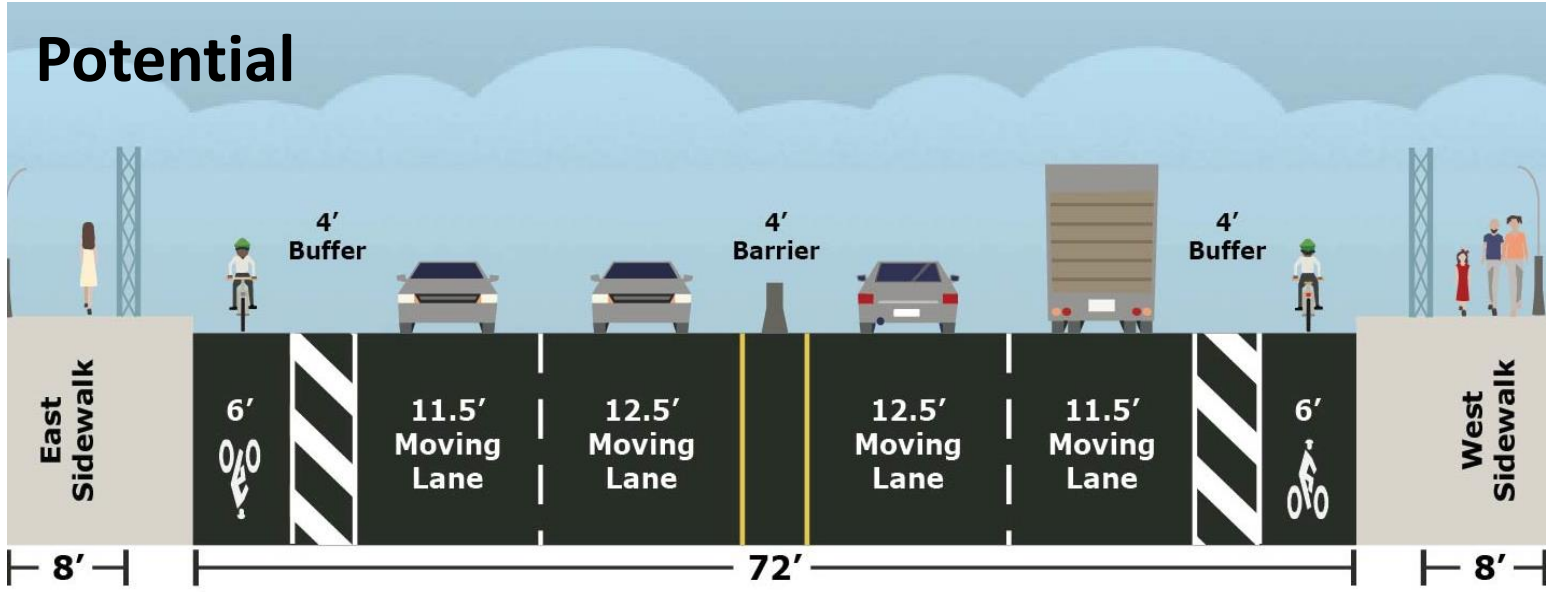
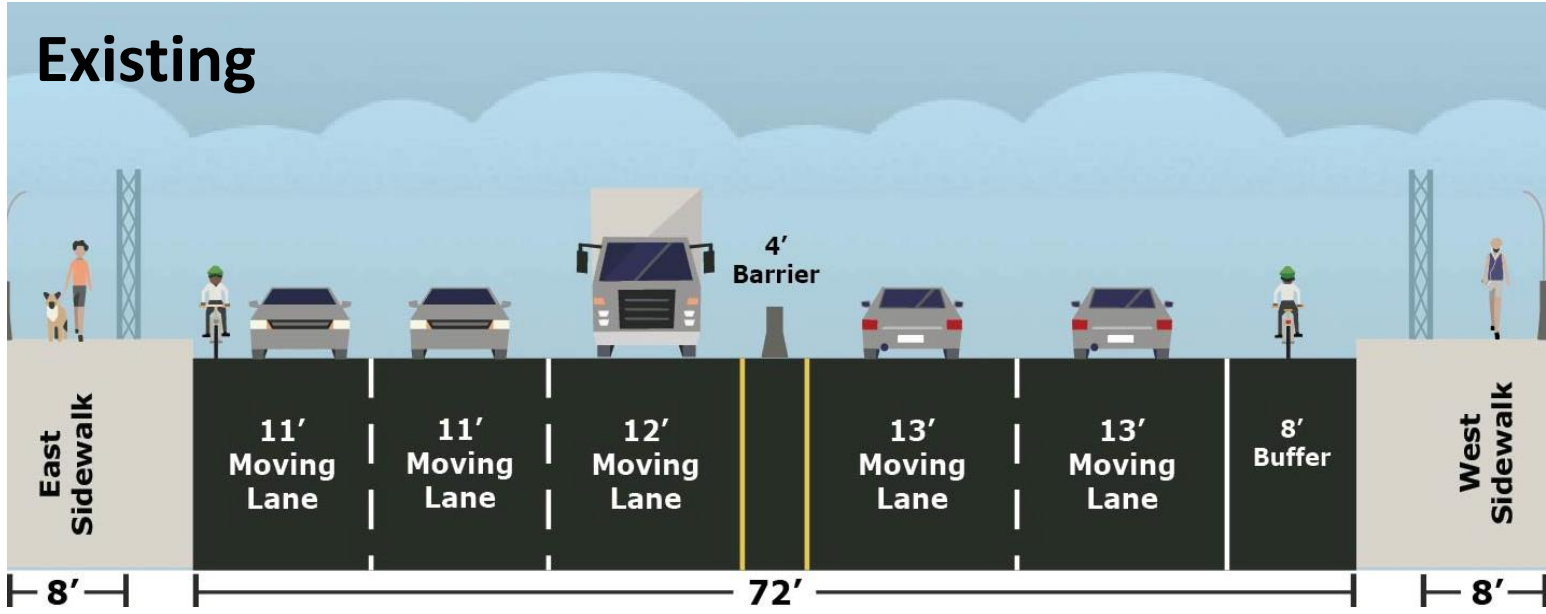
Wayfinding signage on both sides of bridge

Bridge Connector Projects



Long term improvement

Planned Bridge refurbishment will include buffered bike lanes in both directions



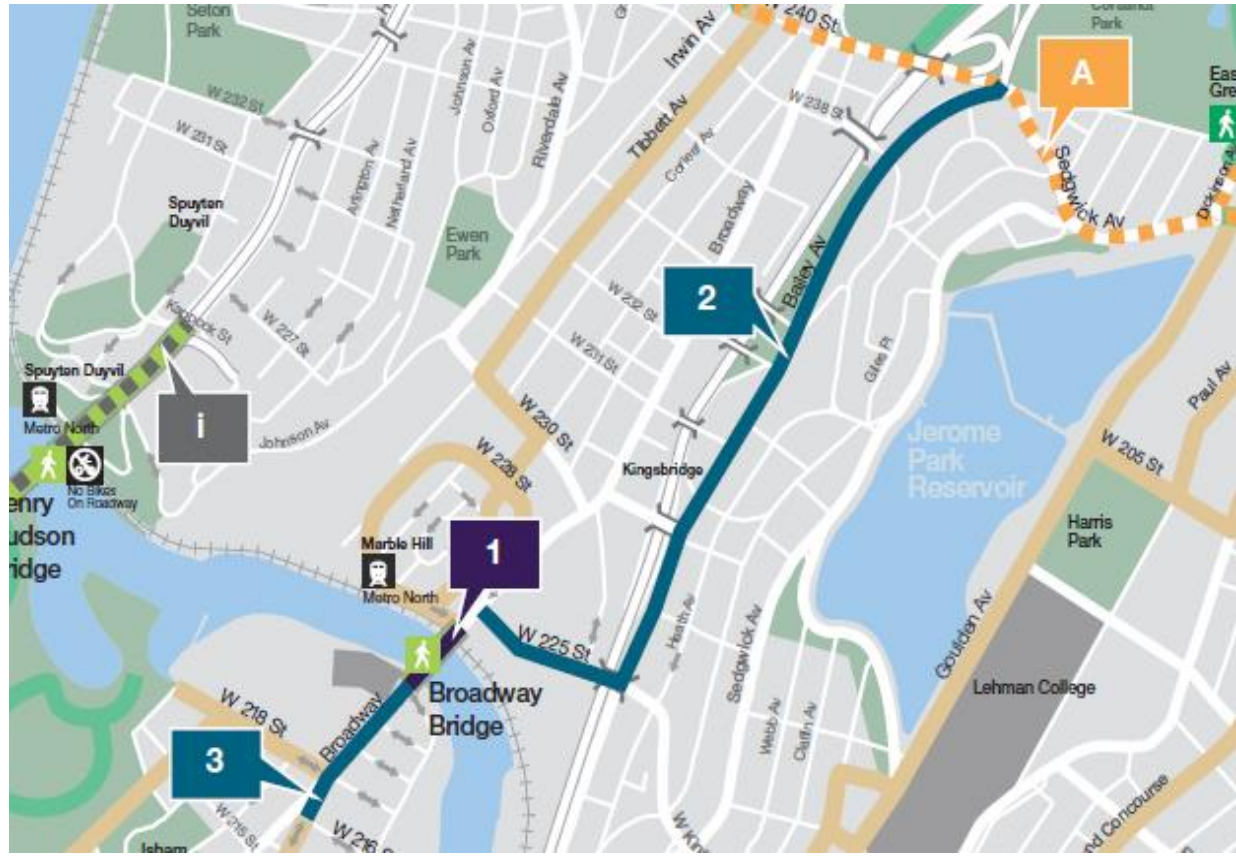
Cost Estimate: Funded

2 Van Cortlandt Park Connector (BX)

W 225th St: Broadway - Bailey Ave

Bailey Ave: W 225th St – Van Cortlandt Park

- Install traffic calming with possible on-street bicycle markings connecting to Broadway Bridge to Van Cortlandt Park



Existing: W 225th St, Bronx facing west



Potential: 4-to-3 conversion with wide parking lanes

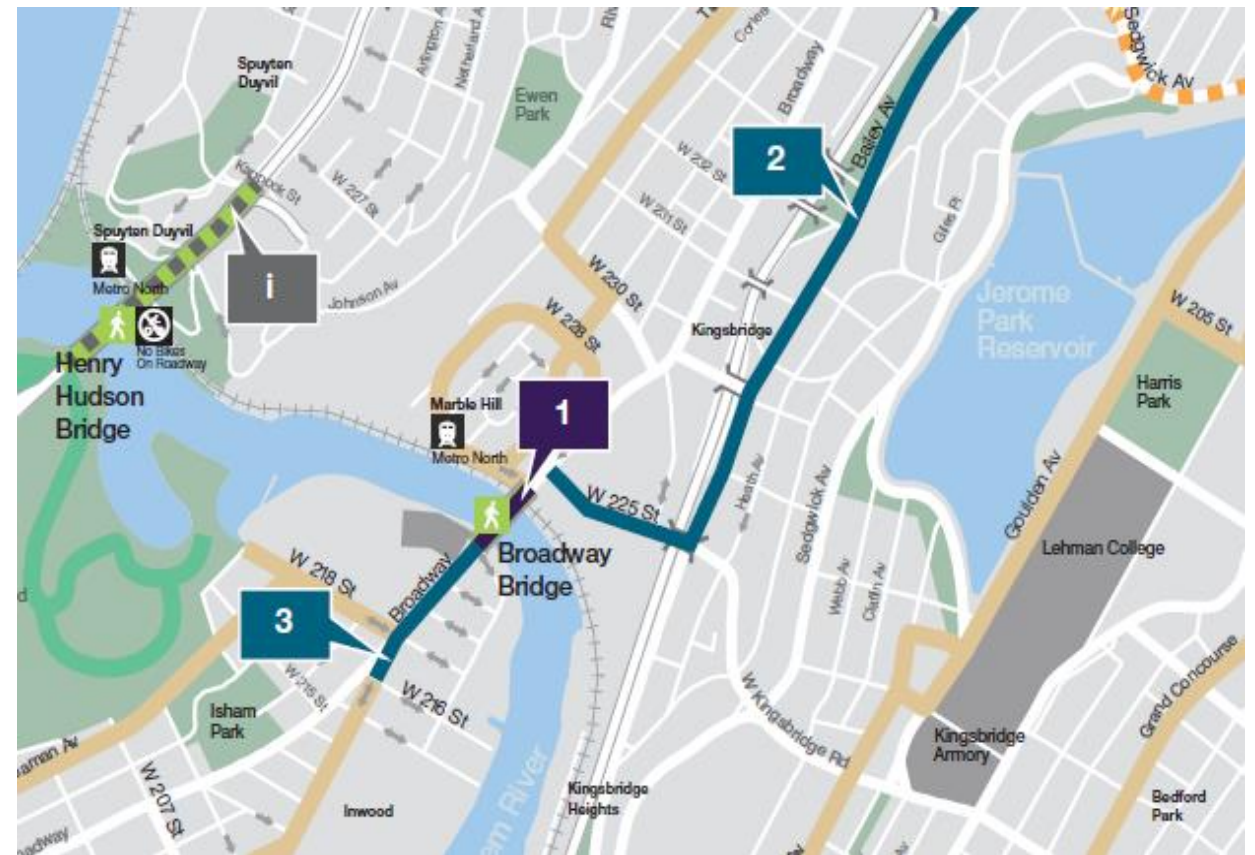
3 Inwood Connector (MN)

10th Ave: Sherman – Broadway

Broadway: 10th Ave – Broadway Bridge

207th St: Broadway Bridge – 10th Ave

- Shorten crossing distances
- Broadway and 9th Ave
- Broadway and 219th, 220th Sts
- Install on-street bicycle markings between Bridge and existing bicycle network



Potential: Concrete curb extensions



Potential: On-street bicycle markings

More Info at Workshop Tables

Bicycle Network Projects

A Mosholu-Pelham Greenway Connector (BX)

Agency Partnership Project

i Henry Hudson Bridge Access Improvements (BX/MN)



Existing: W 240th St and Broadway, facing west

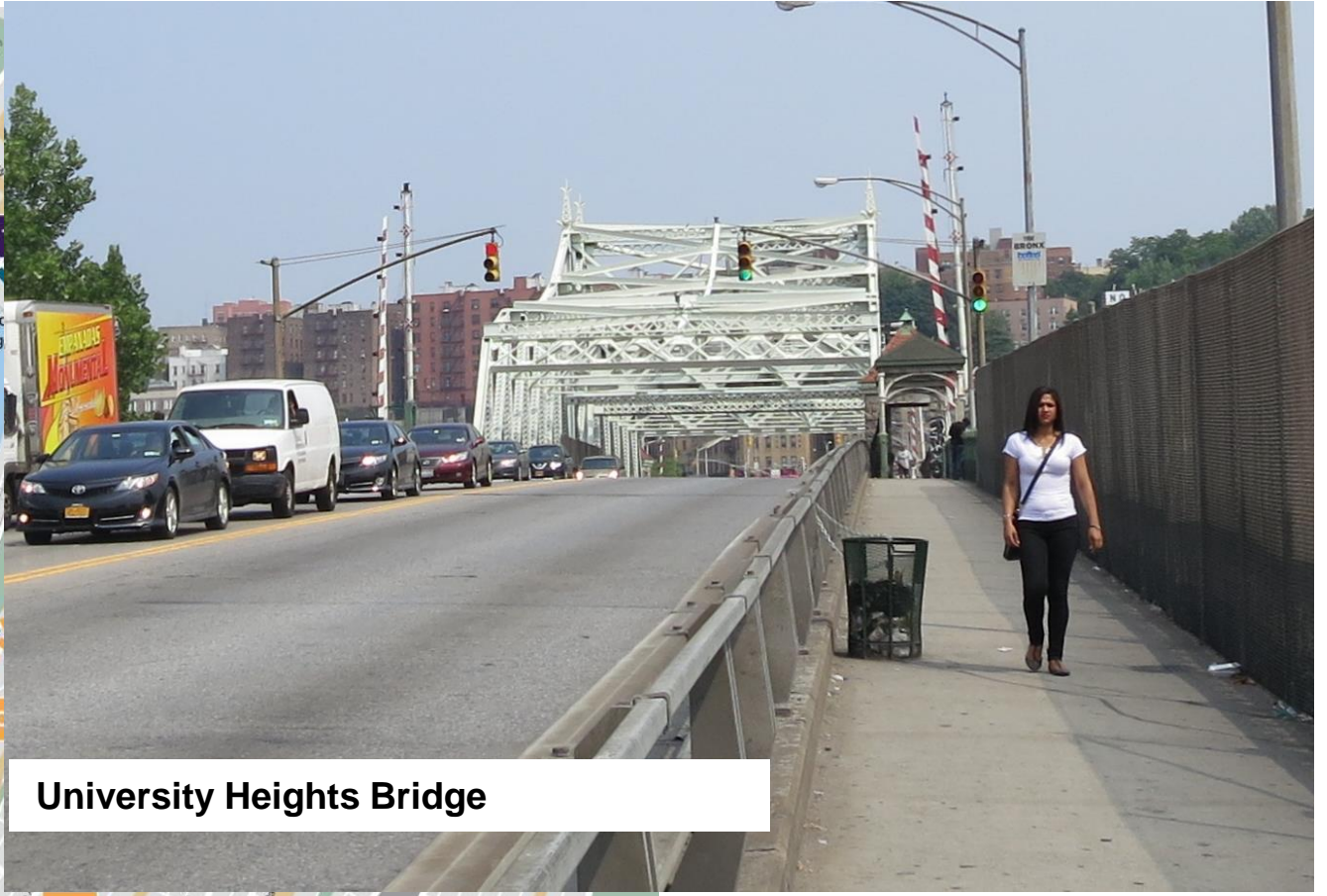
Harlem River North Bridges

A Henry Hudson/
Broadway Bridges

B University Heights
Bridge

C Washington/
High
Bridges

D Macombs Dam Bridge



University Heights Bridge

University Heights Bridge

University Heights Bridge

Feedback

“Sedgwick and University are important pedestrian intersections”

“Double parking and speeding are issues on 10th Ave”

“Concern about traffic on 207th particularly with nearby schools”

Bridge Capital Project

4 University Heights Bridge Enhancements

Bridge Connector Projects

5 W Fordham Rd Approach Improvements (BX)

6 9th Ave Access Improvements (MN)

Bicycle Network Projects

B University Heights Bicycle Route Connection (BX)

C Sedgwick Ave (BX)



Existing: W 207th St at 10th Ave, facing east

4 University Heights Bridge Enhancements

Short term improvement

Explore accommodation for on-street bicycle lanes on bridge

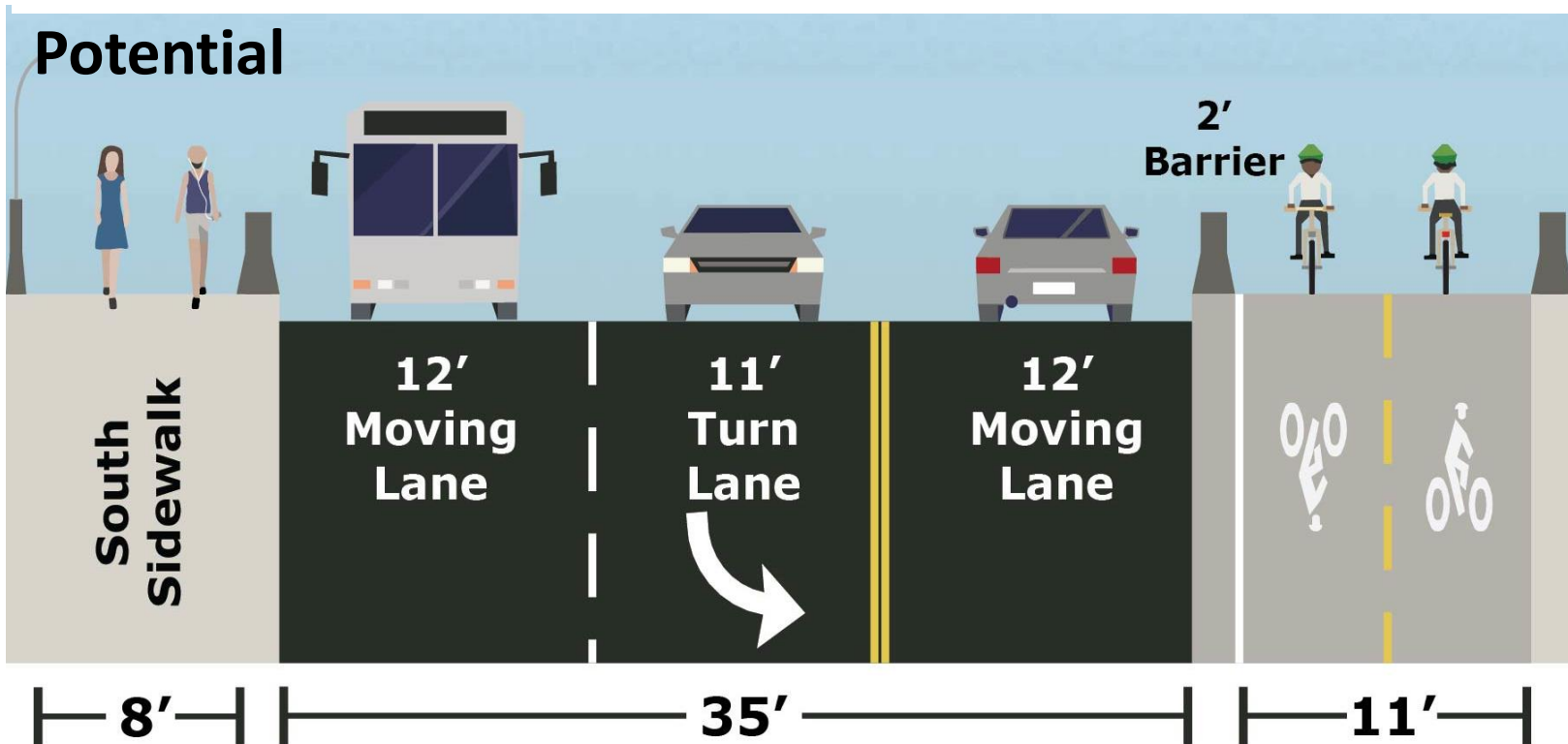
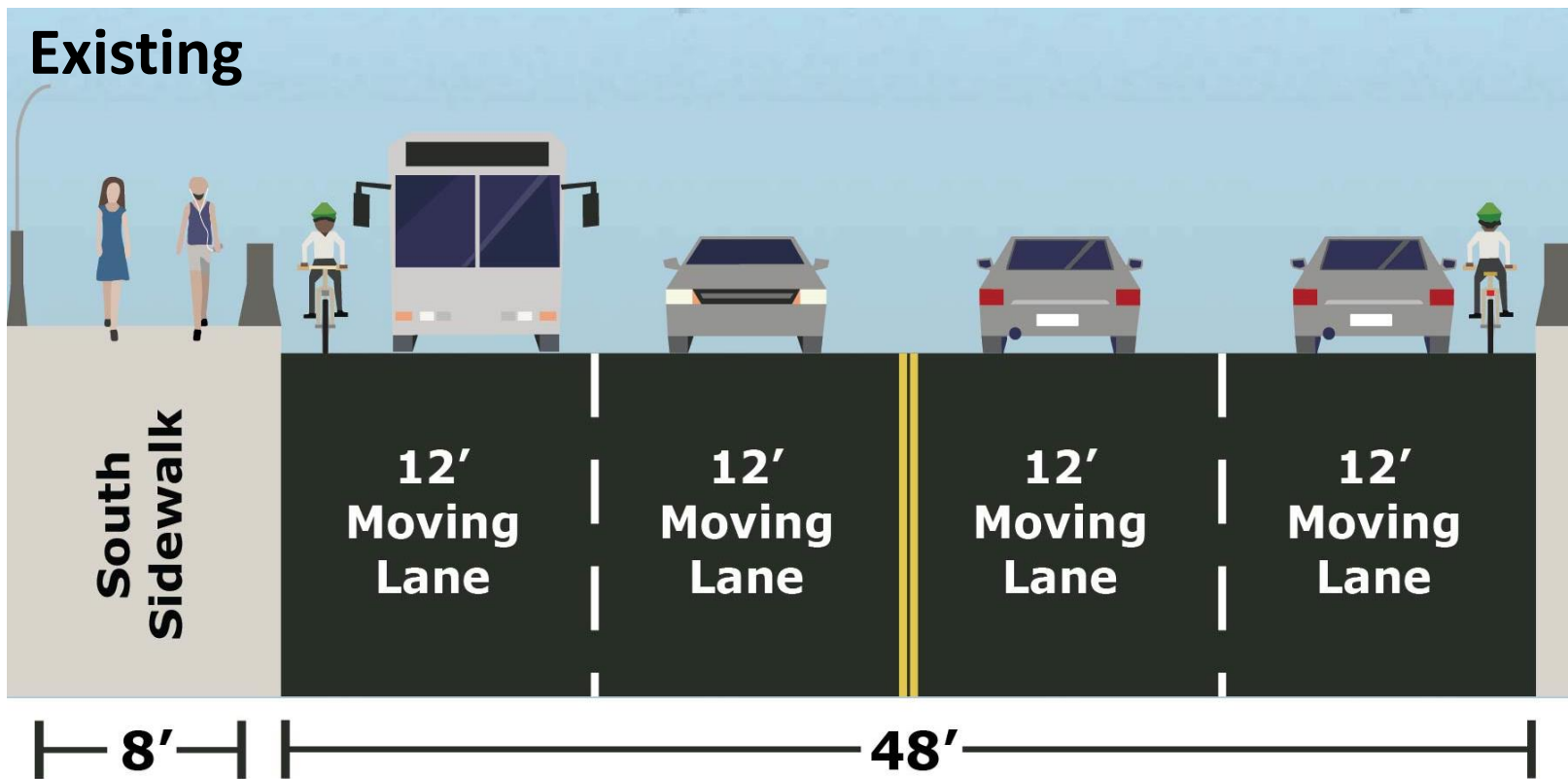
Add designated turn lanes for vehicles on bridge

Bridge Connector Projects **5** **6**

Long term improvement

Capital build out of 2-way protected bicycle path

Designate south path for pedestrians and north path for cyclists



Cost Estimate \$\$\$\$

5 W Fordham Rd Approach Improvements (BX)

W Fordham Rd: Major Deegan Expwy – Sedgwick Ave

- Shorten existing crossing distances at bridge approach
- Add crossings where feasible



Existing: University Heights Bridge at Maj. Deegan Expwy, facing east



Potential: Yield to pedestrian and cyclist crossings

6 9th Ave Access Improvements (MN)

10th Ave: 204th St – 207th St

204th/205th St: 9th Ave – 10th Ave

9th Ave: 204th St – 207th St

- Improve pedestrian and vehicle access to University Heights Bridge from 9th Ave



Existing: 9th Ave at W 207th St, facing east



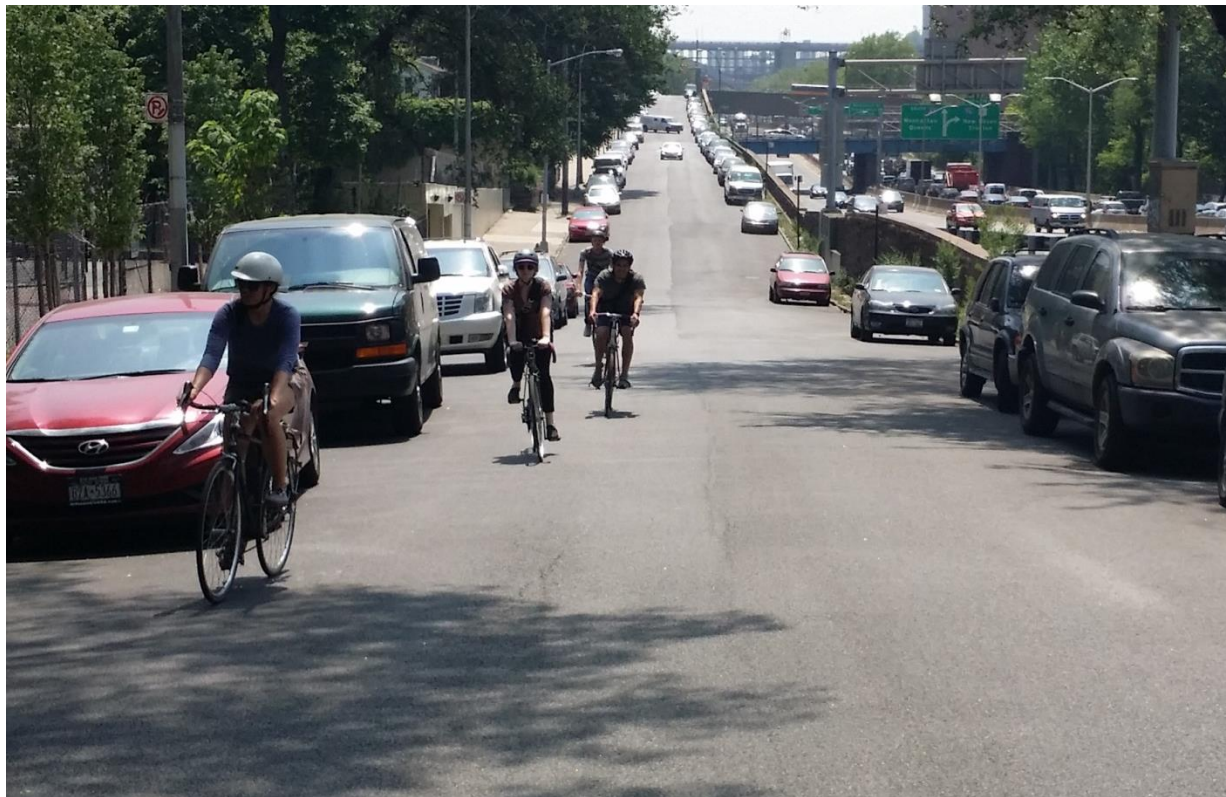
Potential: Shorter, safer pedestrian crossings

More Info at Workshop Tables

Bicycle Network Projects

B University Heights Bicycle Route Connection (BX)

C Sedgwick Ave (BX)



Existing: Sedgwick Avenue, facing south



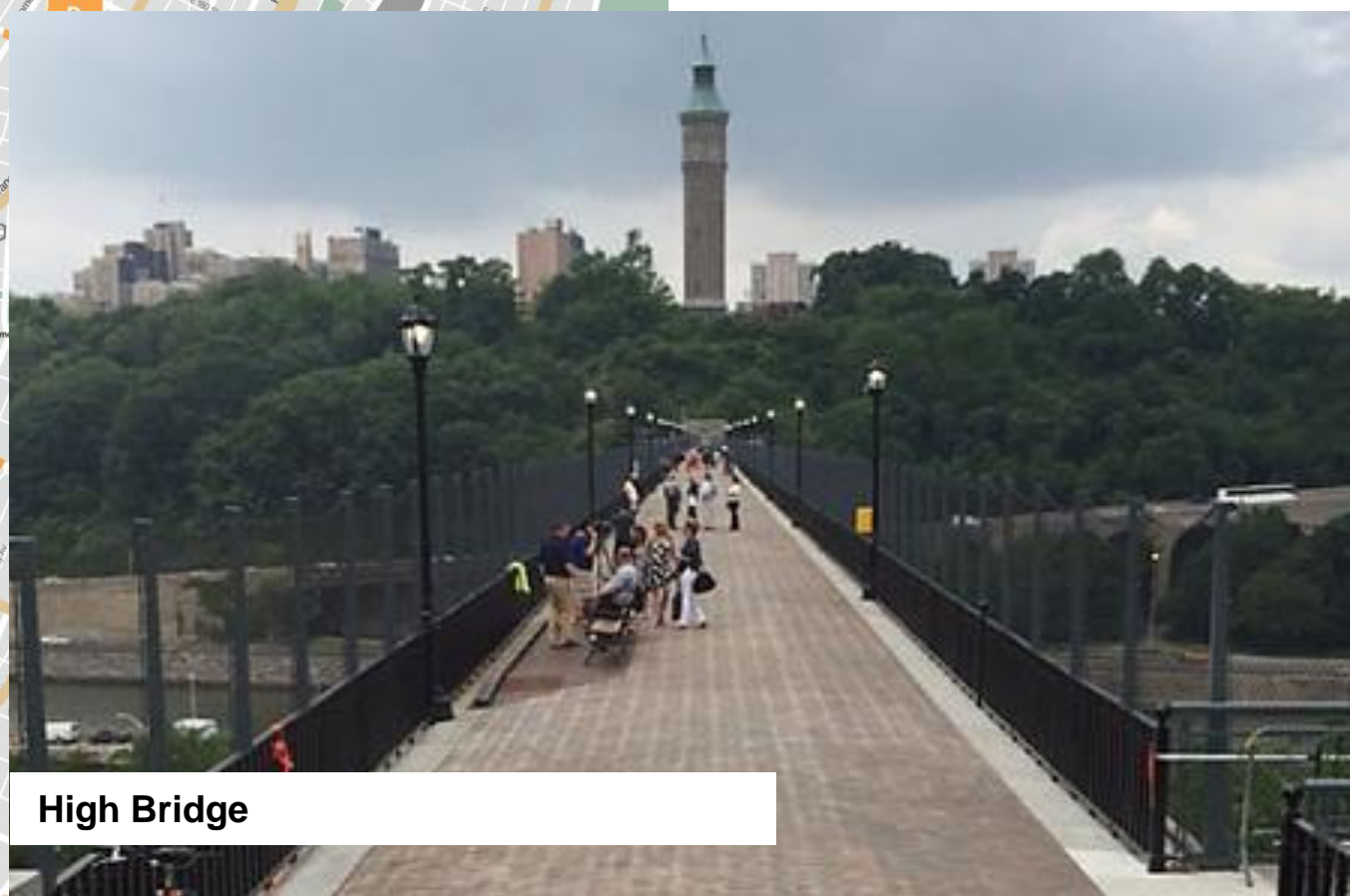
Harlem River North Bridges

A Henry Hudson/
Broadway Bridges

B University Heights
Bridge

C Washington/ High
Bridges

D Macombs Dam Bridge



Washington Bridge

High Bridge

Washington and High Bridges

Feedback

“Hard to get to the (Washington) bridge as a pedestrian”

“East-west connection on W 167 St can be scary on bike”

“Need signal at Sedgwick to waterfront”

Bridge Capital Project

7 Washington Bridge Protected Bicycle Lanes

Bridge Connector Projects

8 Washington Bridge Gateway (BX)

9 Amsterdam Ave Approach Improvements (MN)

10 Bridge Park -High Bridge Connector (BX)

11 Hudson -High Bridge Connector (MN)

Bicycle Network Projects

D Tremont Ave (BX)

E Hudson River Greenway WB Connector (MN)

F 170th St Extension (BX)



Existing: Undercliff Ave at Sedgwick Ave, facing north

7 Washington Bridge Enhancements

Short term improvement

Use excess road capacity to install 2-way bicycle path on north side of bridge, from E L Grant Hwy – Laurel Terrace

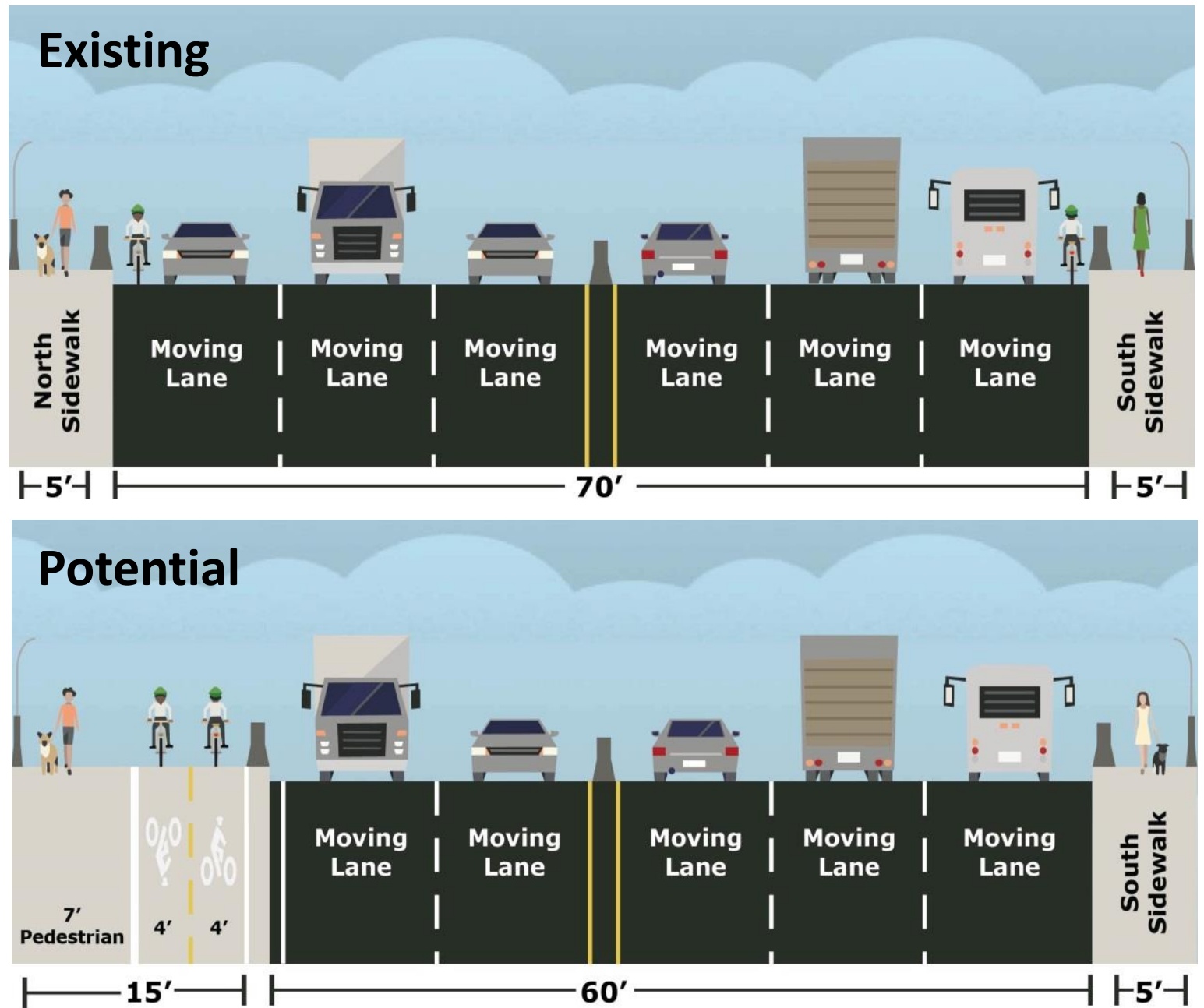
Designate separate paths for pedestrians and cyclists

Bridge Connector Projects **8** **9**

Long term improvement

Capital build out of 2-way protected bicycle path

Explore pedestrian fly-over to replace stairs on Manhattan south access



Cost Estimate \$\$\$

8 Washington Bridge Gateway (BX)

Washington Bridge Approach

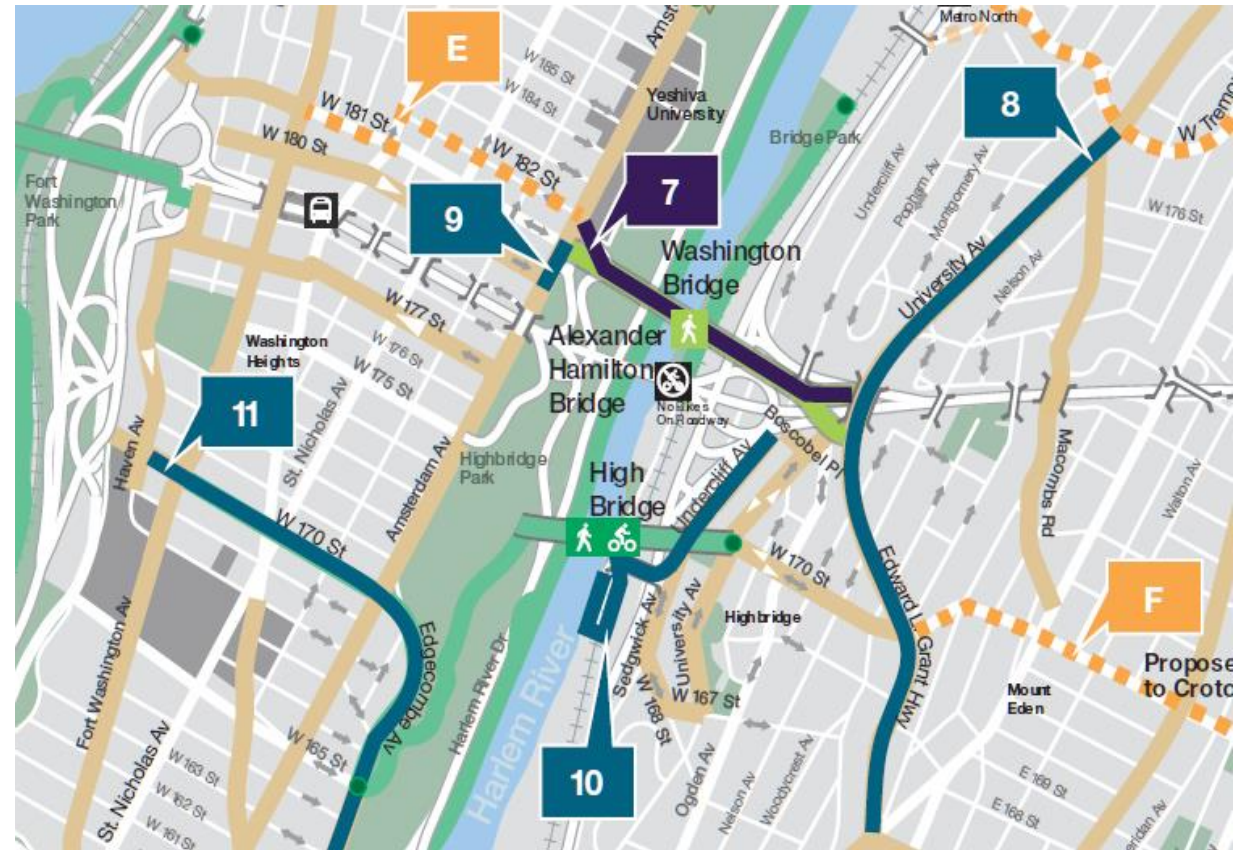
- Work with NYS DOT to add protected bicycle paths and improved pedestrian crossings

Edward L Grant Hwy: Washington Bridge - W Tremont Ave

- Move existing bicycle lanes to center median
- Add median pedestrian crossings

Edward L Grant Hwy: Jerome Ave – Washington Bridge

- Upgrade existing on-street standard bicycle lanes to parking protected lanes



Potential: Painted Median Bicycle Lanes and Improved Median Parks

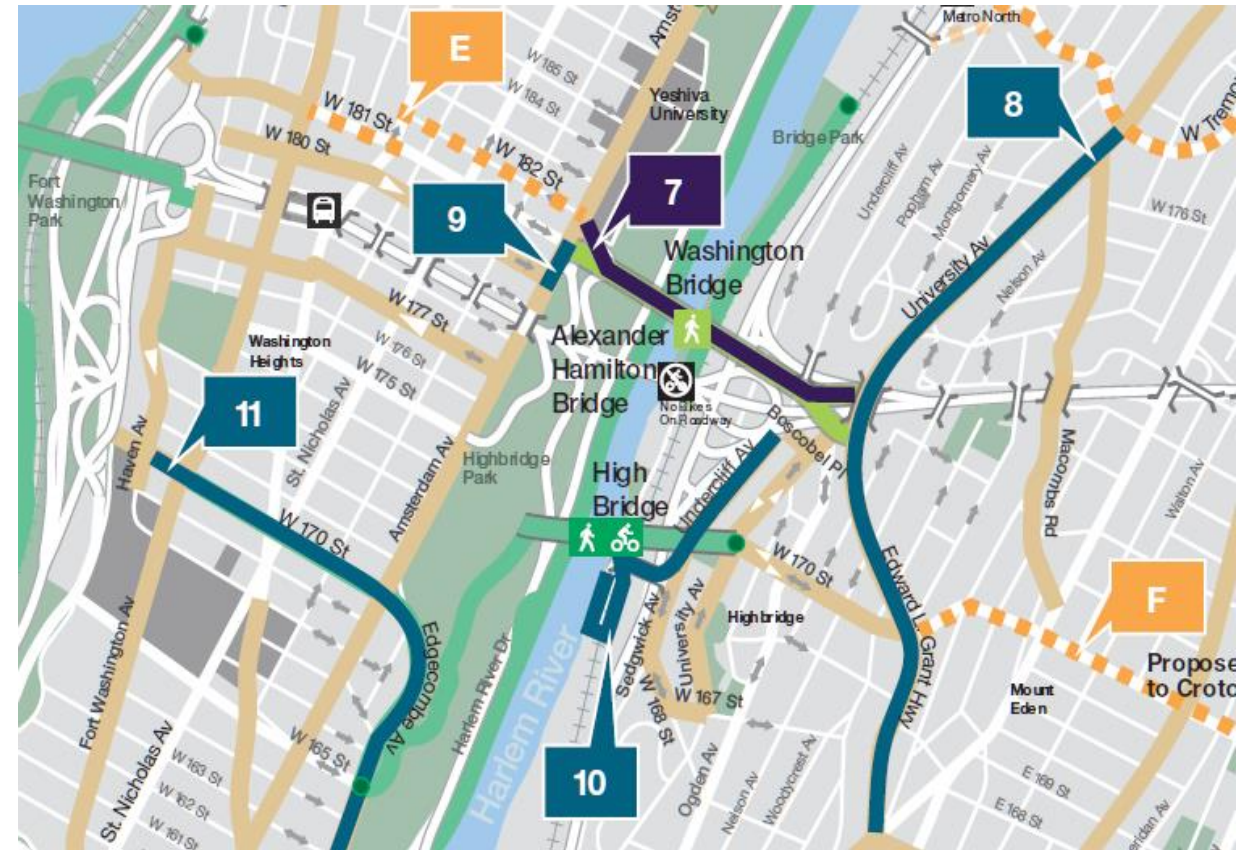


Potential: Parking Protected Bicycle Lane

9 Amsterdam Ave Approach Improvements (MN)

Amsterdam Ave: W 180th St – Laurel Terrace

- Shorten crossing distances at bridge approach
- Install 2-way protected path on west side of Amsterdam to avoid heavy vehicle turns



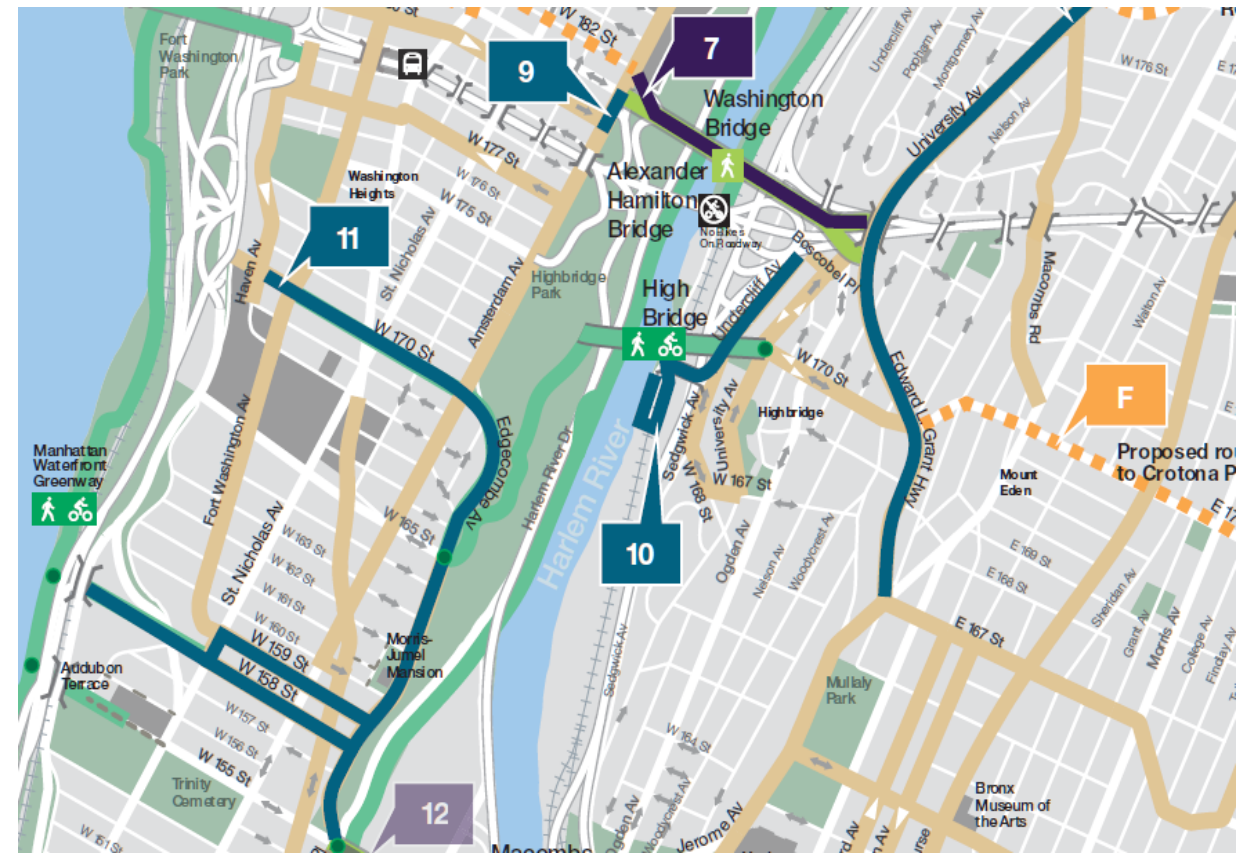
Existing: Amsterdam Ave, facing north



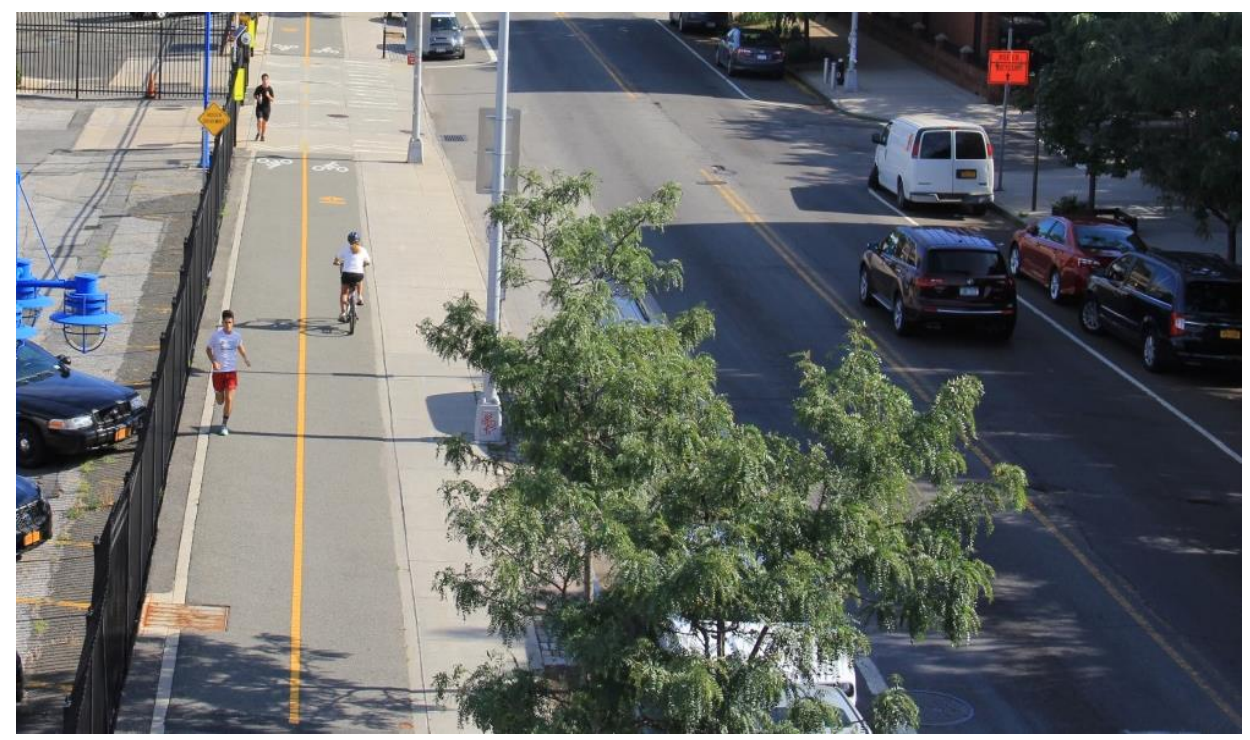
Potential: Separated 2-way Bicycle Lane

11 Hudson - High Bridge Connector (MN)

- Edgecombe Ave: W 170th St – W 155th St
- W 170th St: Edgecombe Ave – Ft Washington Ave
- W 158th St: Hudson River Greenway – Broadway
 - Capital build out of 2015 improvements



Existing: Edgecombe Ave at Jumel Pl, facing south



Potential: Capital build out of separated path

More Info at Workshop Tables

Bicycle Network Projects

- D** Tremont Ave (BX)
- E** Hudson River Greenway WB Connector (MN)
- F** 170th St Extension (BX)



Existing: W 170th St, at E L Grant Hwy facing east

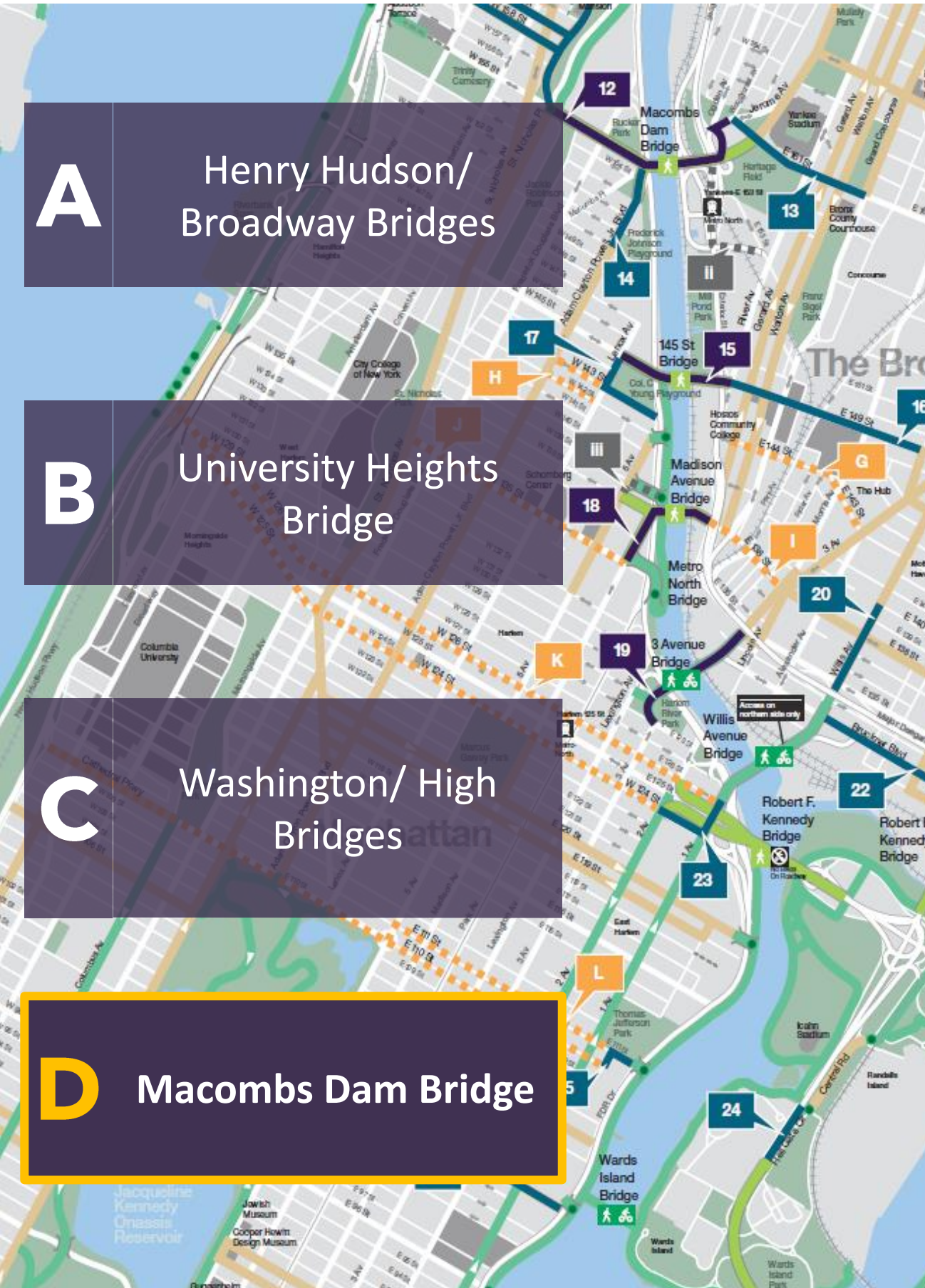
Harlem River North Bridges

A Henry Hudson/
Broadway Bridges

B University Heights
Bridge

C Washington/ High
Bridges

D Macombs Dam Bridge



Macombs Dam Bridge

Macombs Dam Bridge

Macombs Dam Bridge

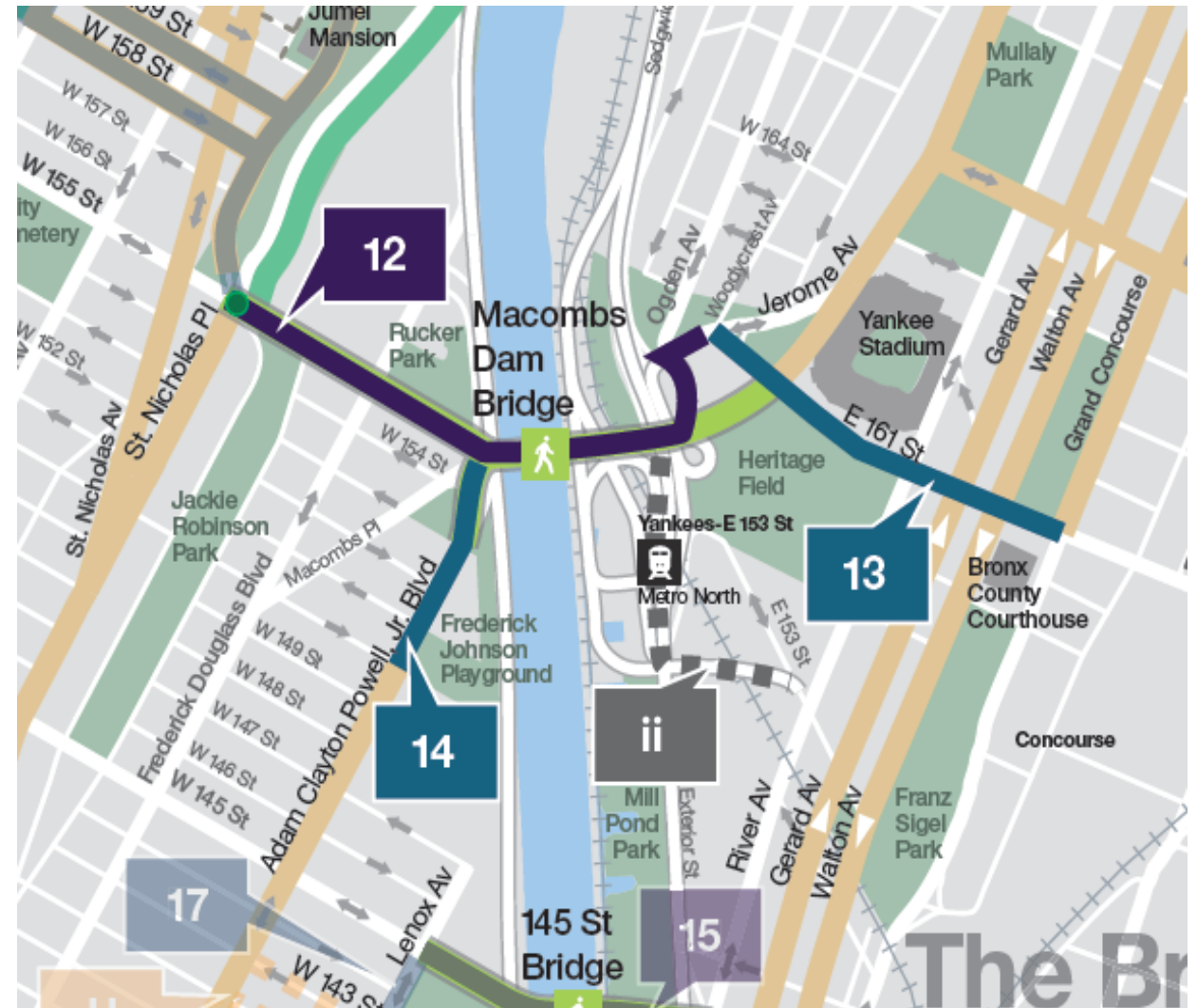
Feedback

“A crossing would be helpful – going north you get stuck on wrong side of the bridge”

“Walking over is easier than transit”

“Pedestrian walkways too narrow- difficult for 2 people to walk side by side”

“Bridge paths too narrow for cyclists- is a Willis Ave Bridge-style path possible?”



Bridge Capital Project

12 Macombs Dam Bridge Enhancements

Bridge Connector Projects

13 Yankee Stadium- Grand Concourse Connector (BX)

14 Harlem River Park Connector (MN)

Agency Partnership Project

ii Mill Pond Waterfront Connection (BX)



Existing: Macombs Dam Bridge, facing west

12 Macombs Dam Bridge Enhancement

Short term improvement

Install Walk NYC and bicycle wayfinding signage

Bridge Connector Projects

13

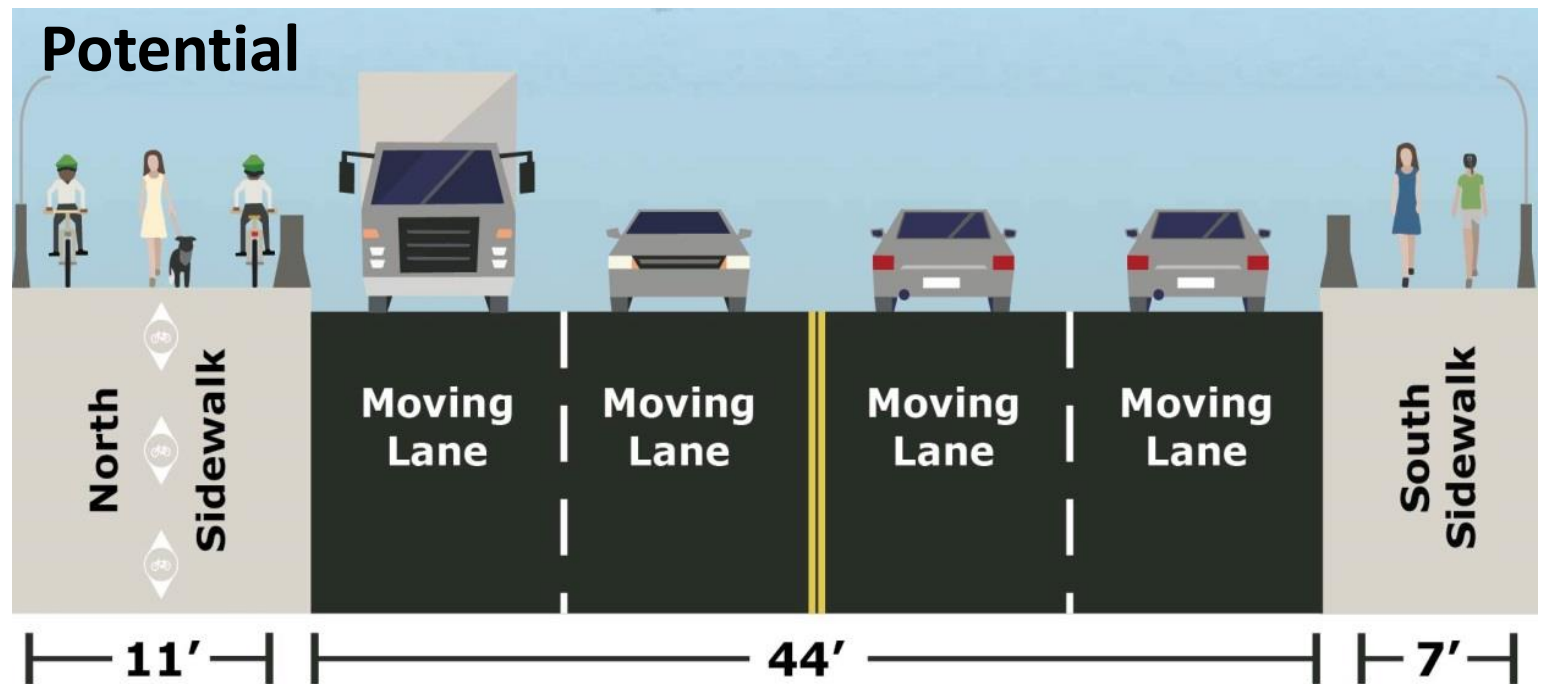
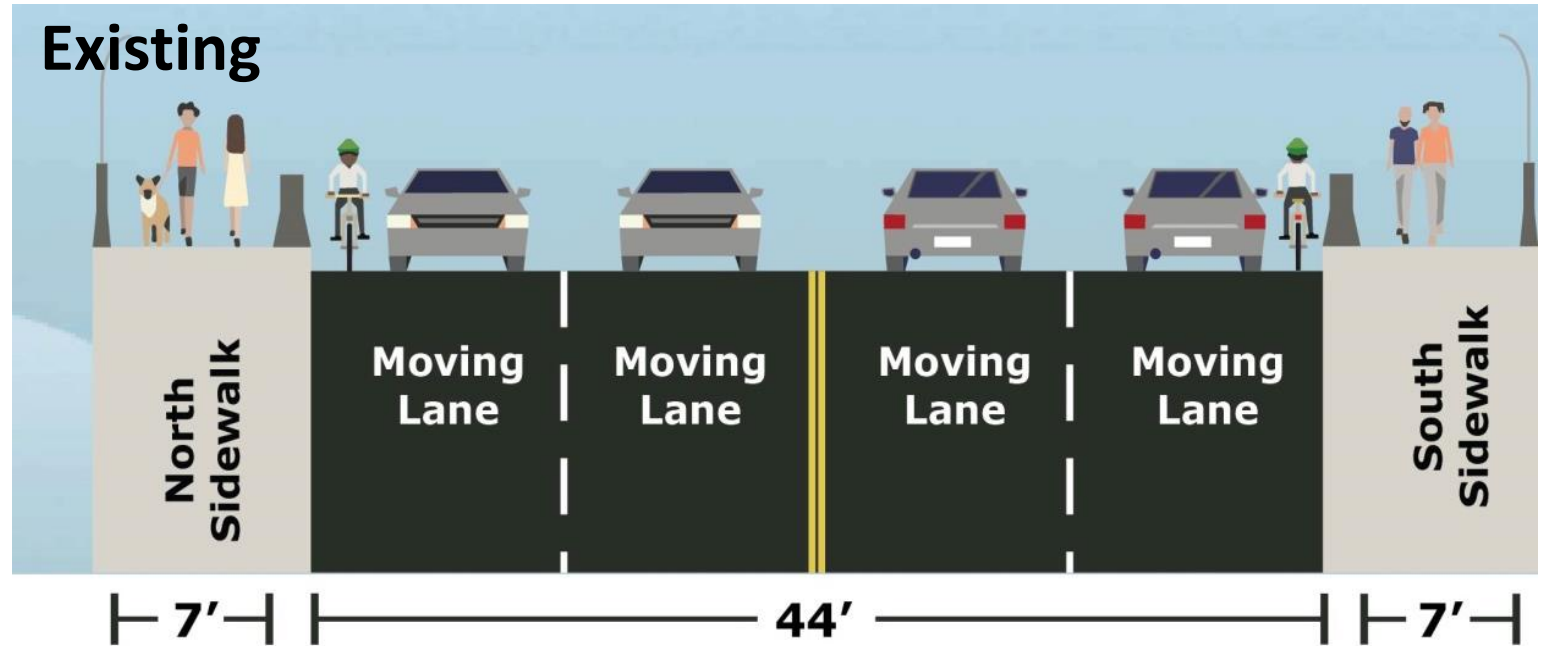
14

Long term improvement

Build cantilever on north side of bridge

Install shared-use bicycle path on north side

Bicycle path to touch down at Jerome Ave on north side



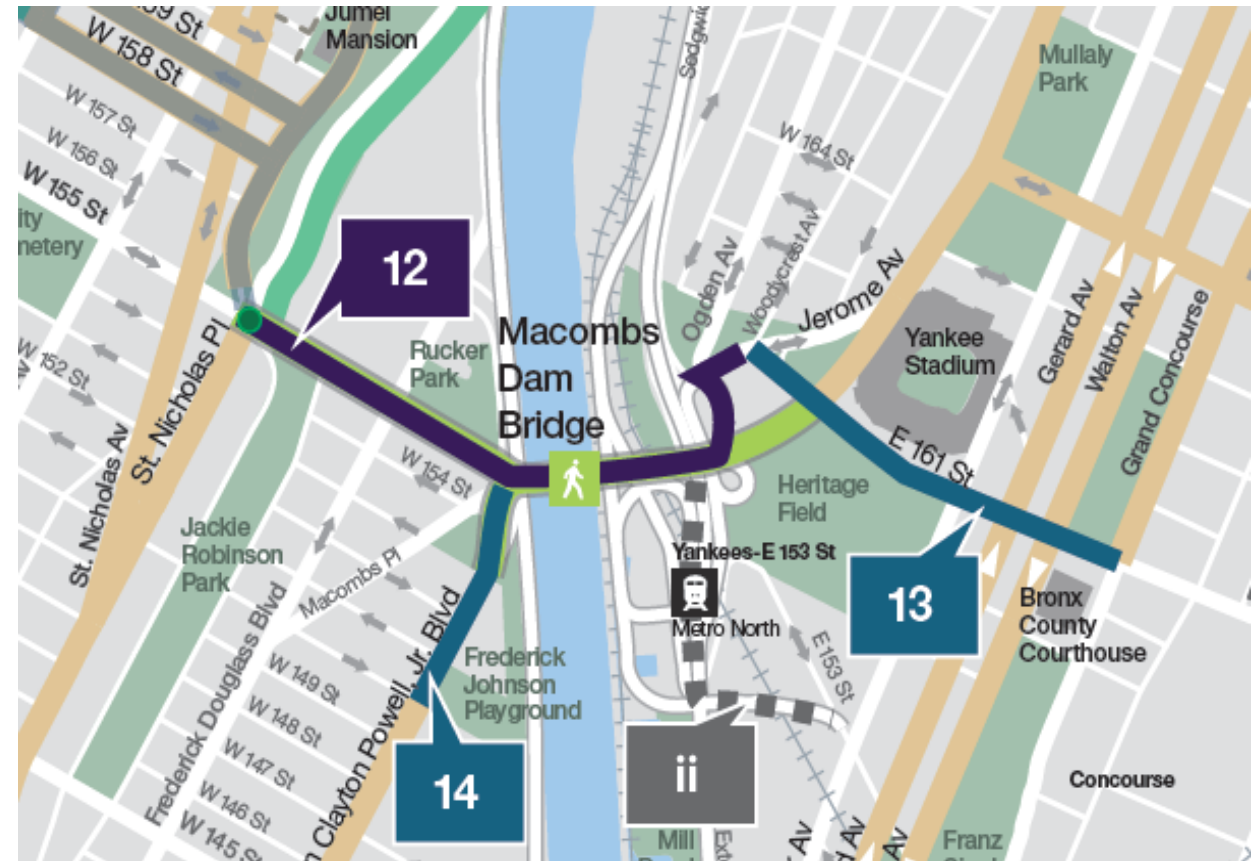
Cost Estimate \$\$\$\$

13 Yankee Stadium- Grand Concourse Connector (BX)

Jerome Ave: Bridge - E 161st St

E 161st St Service Rds: Jerome Ave - Grand Concourse

- Shorten pedestrian crossing distances
- Install on-street bicycle lanes from bridge to existing bicycle network



Potential: Curb extensions and enhanced markings

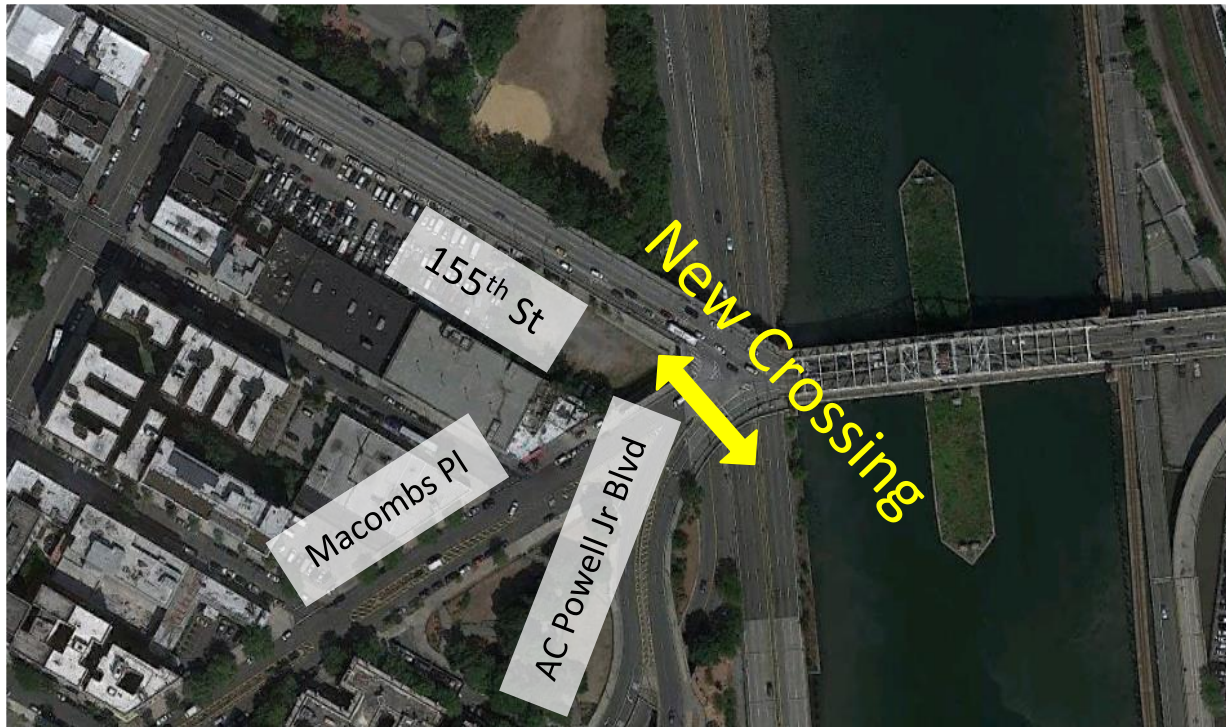
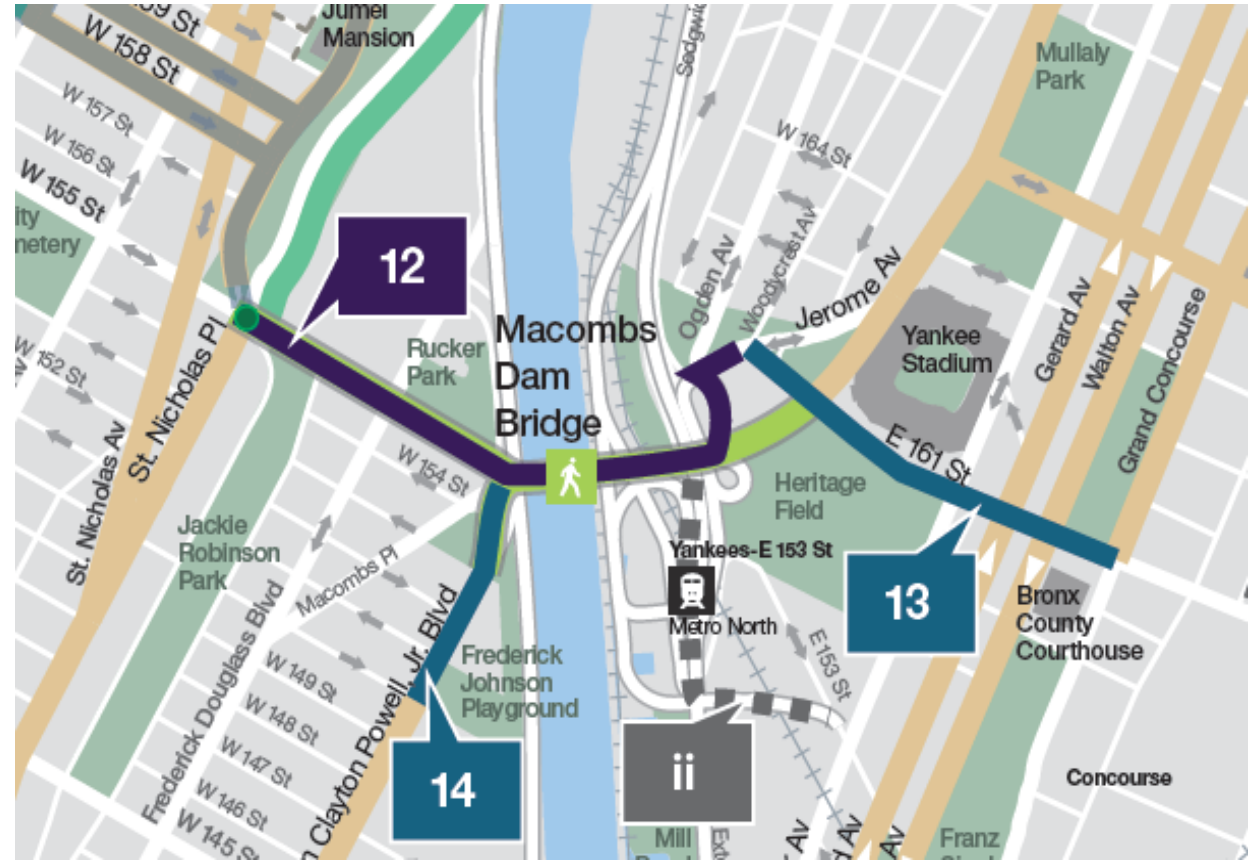


Potential: On-street, curbside bicycle lanes

14 Harlem River Park Connector (MN)

ACP Blvd: W 150th St – W 155th St

- Install signalized crossing at W 155th St
- Install on-street bicycle markings from bridge to existing signed bicycle route



Potential: New pedestrian crossing

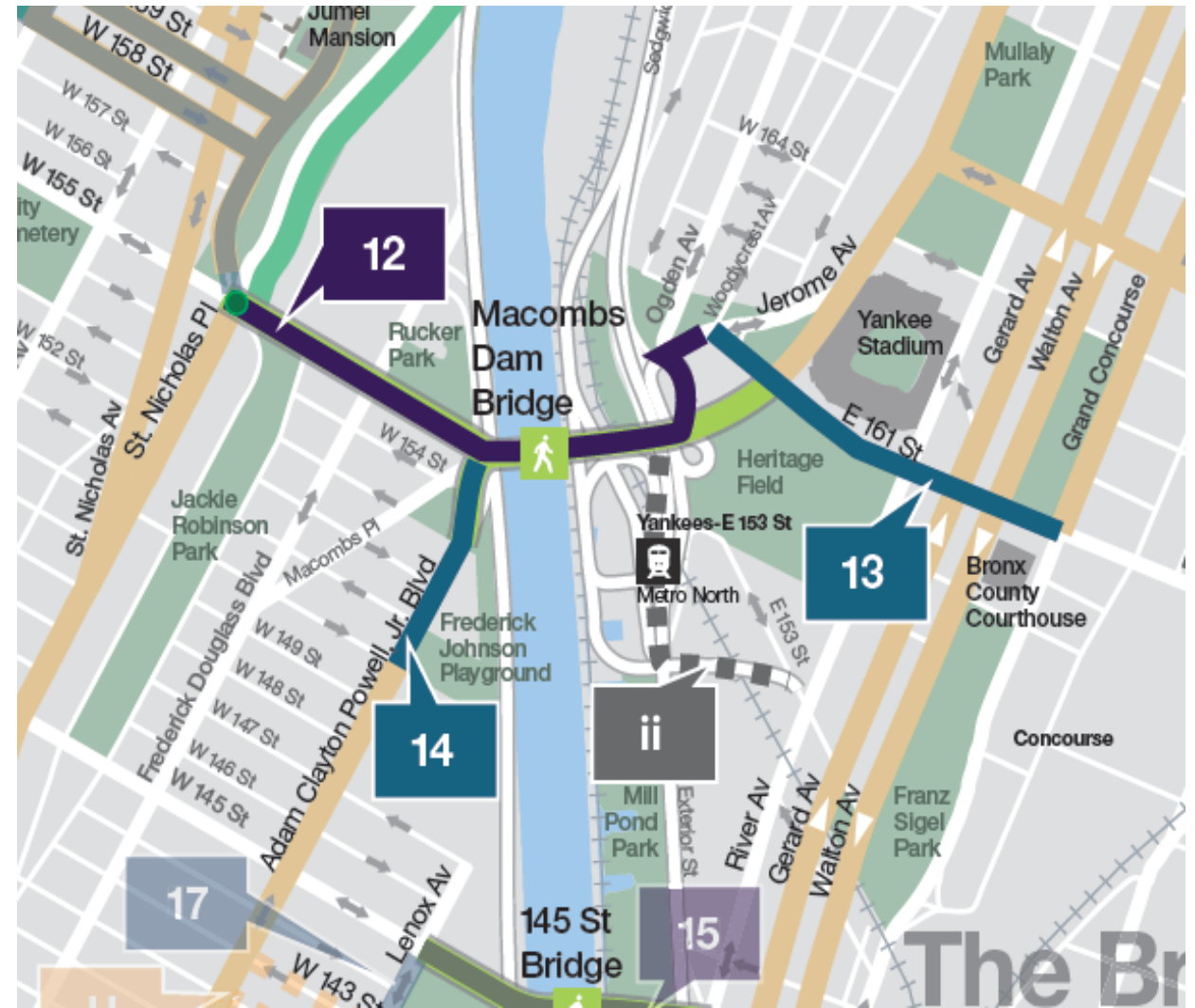


Potential: On street shared bicycle markings

More Info at Workshop Tables

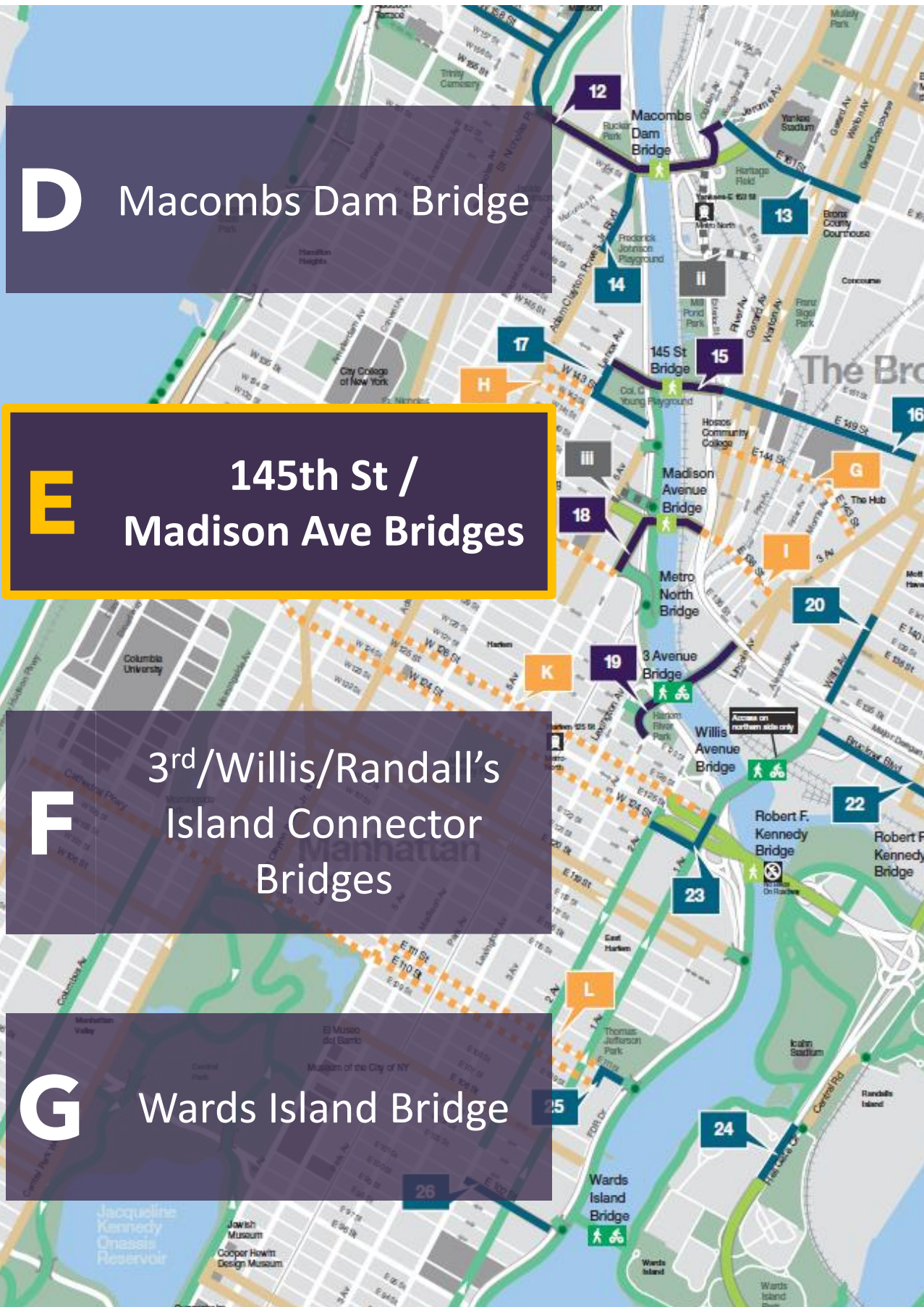
Agency Partnership Project

ii Mill Pond Waterfront Connection (BX)



Existing: Gateway Center Blvd, facing northeast

Harlem River South Bridges



D Macombs Dam Bridge

E 145th St / Madison Ave Bridges

F 3rd/Willis/Randall's Island Connector Bridges

G Wards Island Bridge



145th St Bridge



Madison Ave Bridge

145th St and Madison Ave Bridges

Feedback

“Pedestrian improvements” desired on E 149th St

“135th/Madison is very difficult to cross”

“Getting off the Greenway, back to the street, is difficult”

Bridge Capital Projects

- 15 145 St Bridge Enhancements
- 18 Madison Ave Bridge Approach Enhancements

Bridge Connector Projects

- 16 E 149th St Corridor Improvements (BX)
- 17 Harlem River Greenway Connector (MN)
- 19 E 138th St: bridge to 3rd Ave (BX)

Bicycle Network Projects

- G East-West Bicycle Route to Hub (BX)
- H W 142nd St & W 143rd St, bridge to ACP Blvd (MN)
- I E 135th St: bridge to St. Nicholas Ave (MN)

Agency Partnership Project

- iii 5th Ave Harlem River Greenway Connector (MN)



Existing: 145th St Bridge, facing west

15 145th St Bridge Enhancement

Short term improvement

Install intersection improvements at bridge approach on both sides

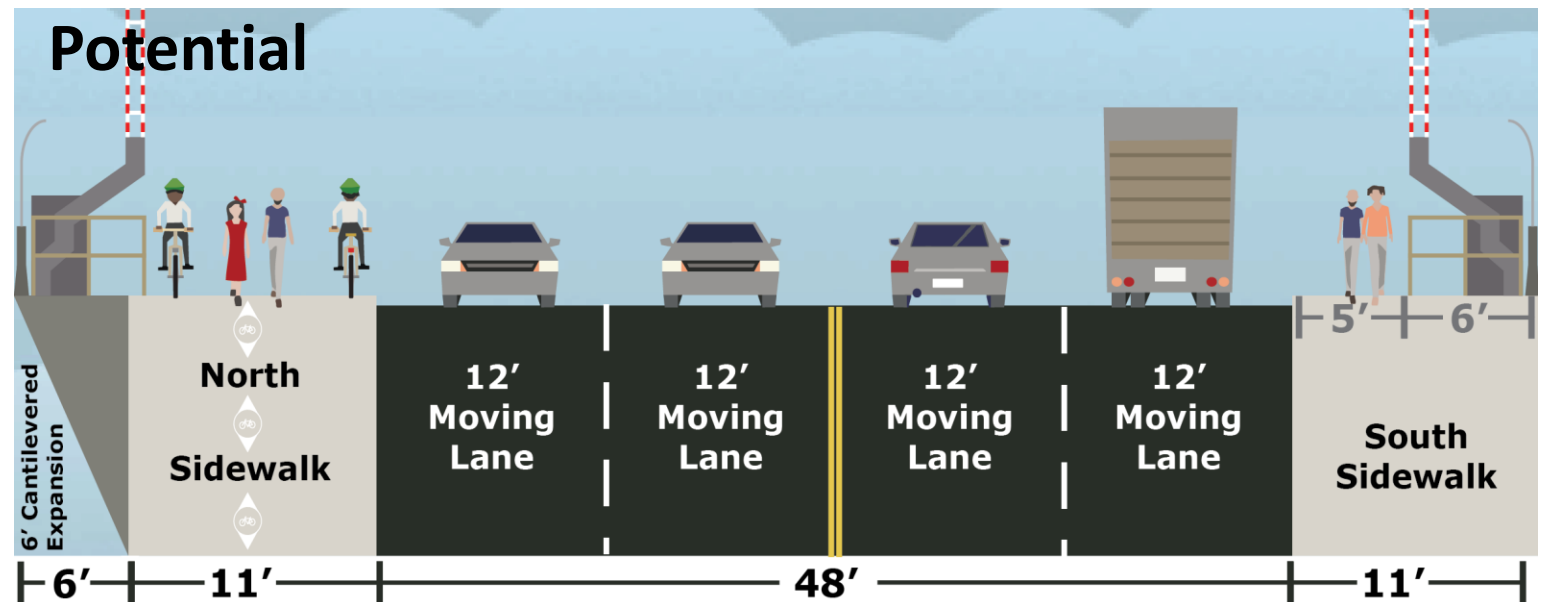
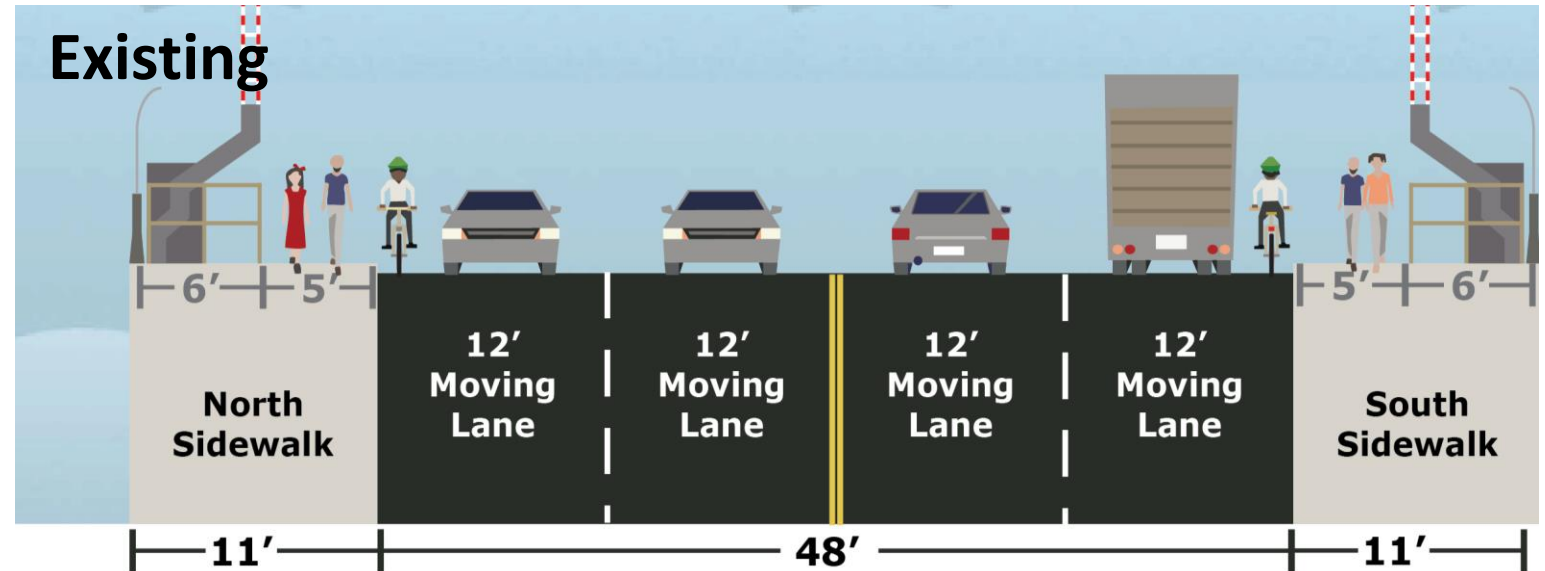
Install shared-lane bicycle markings across bridge

Bridge Connector Projects **16** **17**

Long term improvement

Build cantilever on north side of bridge

Move gates out of the way to create shared-use path on north side



Cost Estimate \$\$\$\$

E 149th St Corridor Improvements (BX)

Intersection improvements at:

- Grand Concourse
- Park Ave
- Morris Ave
- 3rd Ave

E 149th St: River Ave to 3rd Ave

- Install on-street bicycle markings connecting bridge to existing bicycle network



Potential: Shorter, safer pedestrian crossings



Potential: On-street shared bicycle markings

17 Harlem River Greenway Connector (MN)

Lenox Ave , W 143rd St, 5th Ave:

- Bicycle route and improved ped path along Col. Charles Young Playground
- Create Greenway gateway at 5th Ave and W 143rd St



Existing: W 143th St, facing west



Potential: On-street bicycle lanes

18 Madison Ave Bridge Approach Enhancement

Short term improvement

Install Walk NYC and bicycle wayfinding signage

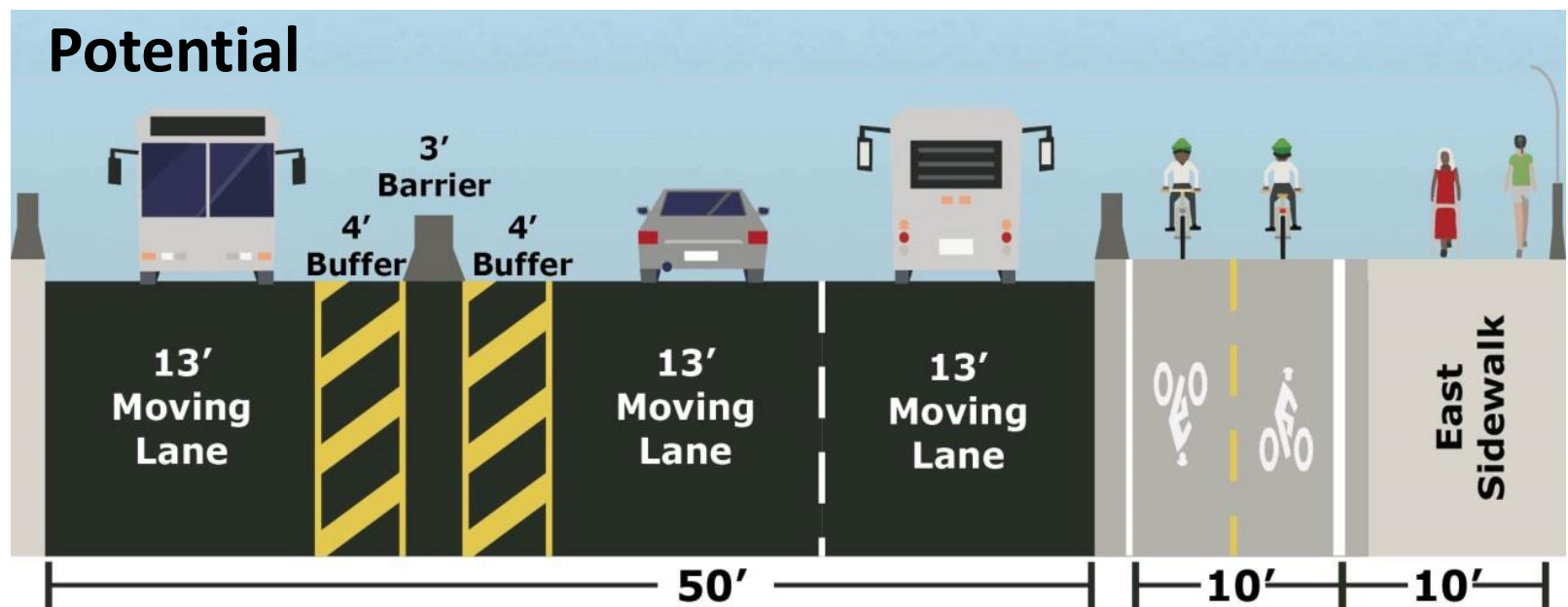
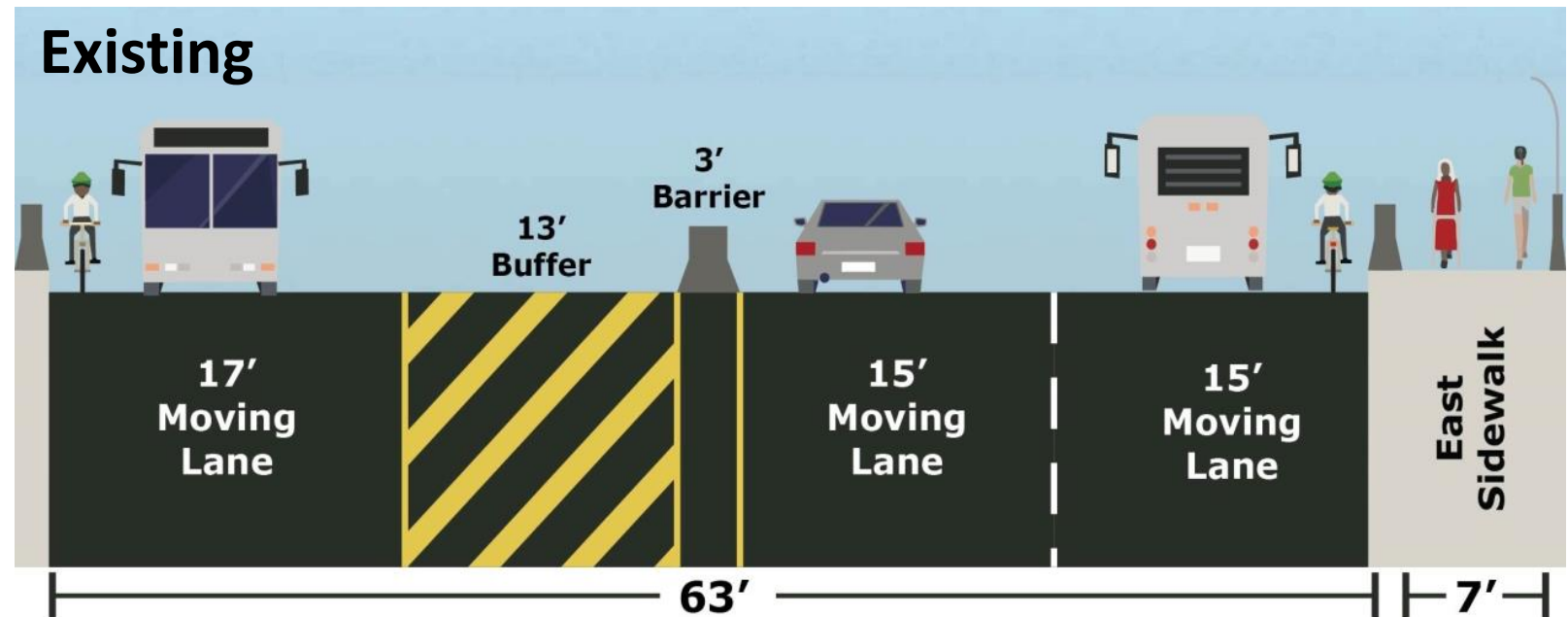
Bridge Connector Project

19

Long term improvement

Narrow travel lanes and buffer space

Expand pedestrian and bicycle space on east side of Madison Ave Bridge access ramp



Cost Estimate \$\$\$\$

19 E 138th Street Corridor Improvements (BX)

E 138th St: Exterior St – 3rd Ave

- Install concrete pedestrian islands where feasible
- Install on-street bicycle lanes between the bridge and existing routes on 3rd Ave and E 138th St



Existing: E 138th St, facing east



Potential: Traffic calming, concrete islands and on street bicycle lanes

More Info at Workshop Tables

Bicycle Network Projects

- G** East-West Bicycle Route to Hub (BX)
- H** W 142nd St & W 143rd St, bridge to ACP Blvd (MN)
- I** E 135th St: bridge to St. Nicholas Ave (MN)

Agency Partnership Project

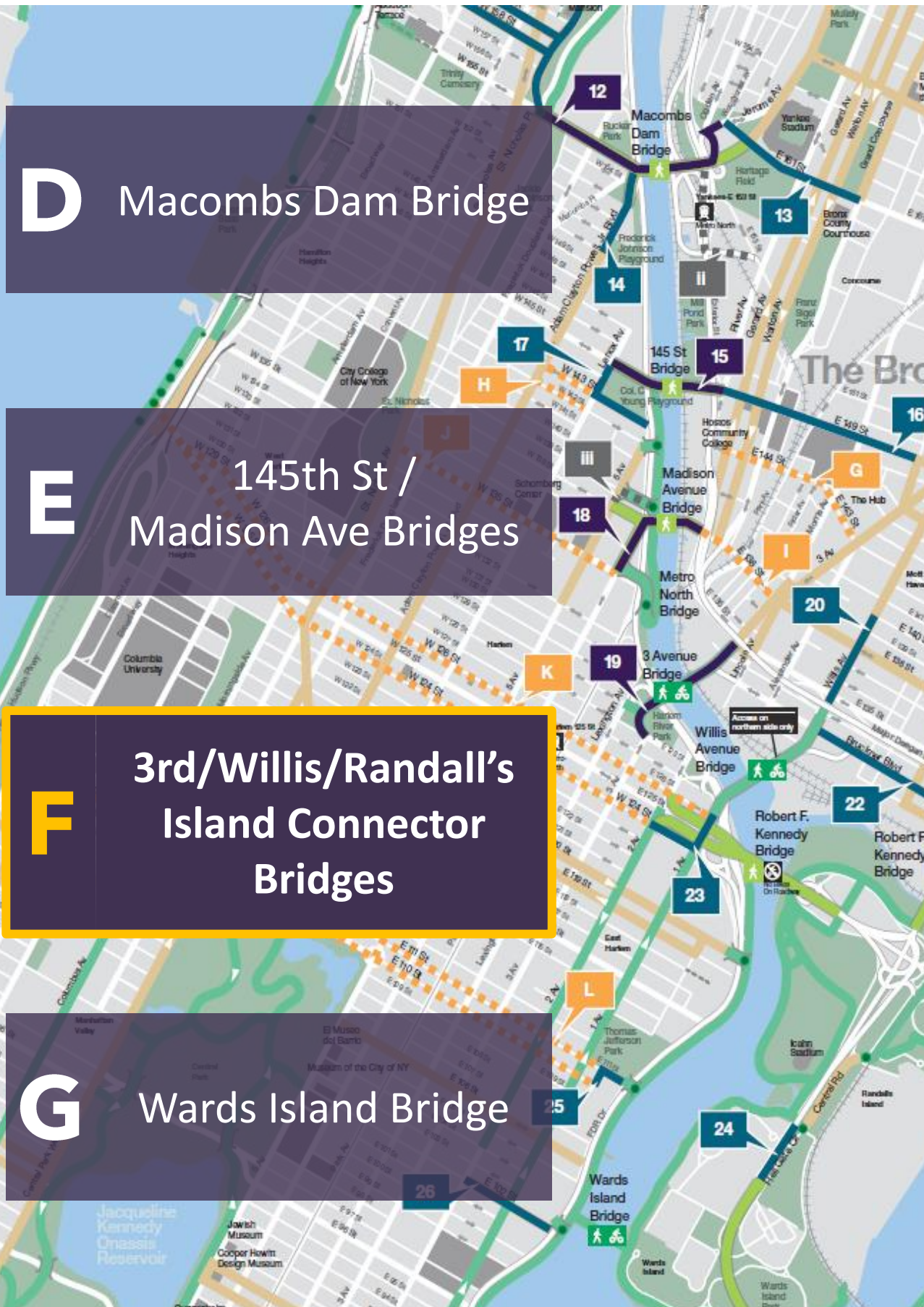
- iii** 5th Ave Harlem River Greenway Connector (MN)



Existing: 135th St, facing west



Harlem River South Bridges



D Macombs Dam Bridge

E 145th St / Madison Ave Bridges

F 3rd/Willis/Randall's Island Connector Bridges

G Wards Island Bridge



Randall's Island Connector



Willis Ave Bridge

Third Ave Bridge, Willis Ave Bridge, and Randall's Island Connector

Feedback

- “3rd Ave bridge is a comfortable walking route”
- “Connect Willis Ave bridge to 2nd Ave”
- “Cars double park in (Willis Ave) bike lane”
- “Priority to connect bikes to new Randall's Island bridge (instead of) RFK”

Bridge Capital Project

20 3rd Ave Bridge Enhancements

Bridge Connector Projects

- 21** Willis Ave Protected Bicycle Lanes (BX)
- 22** Willow Ave Protected Bicycle Lanes (BX)
- 23** E 133rd St Protected Bicycle Lanes (BX)
- 24** 1st Ave Access Improvements (MN)

Bicycle Network Projects

J East-west route from Willis Ave Bridge – Hudson River



Existing: Hell Gate path, Randall's Island

20 3rd Ave Bridge Improvements

Short term improvement

Direct cyclists to preferred Willis Ave Bridge path with wayfinding signage

Long term improvement

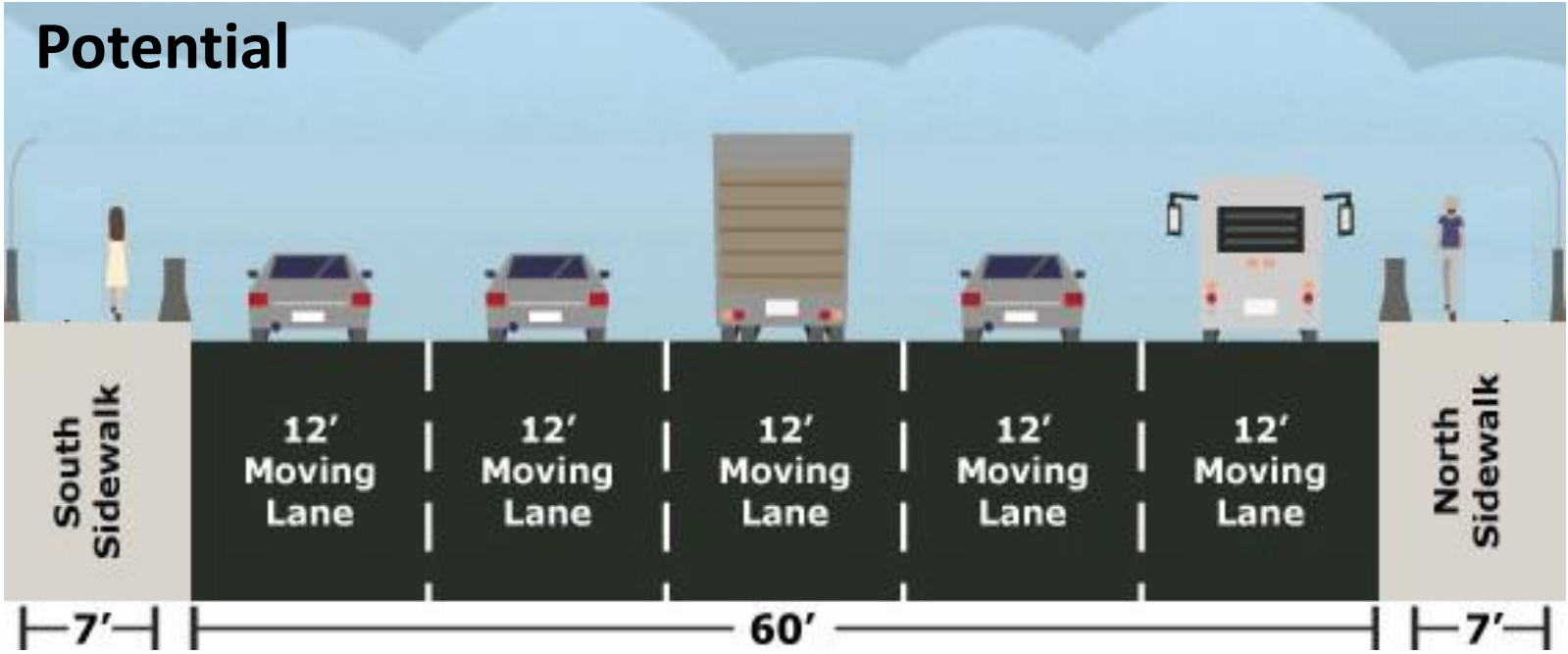
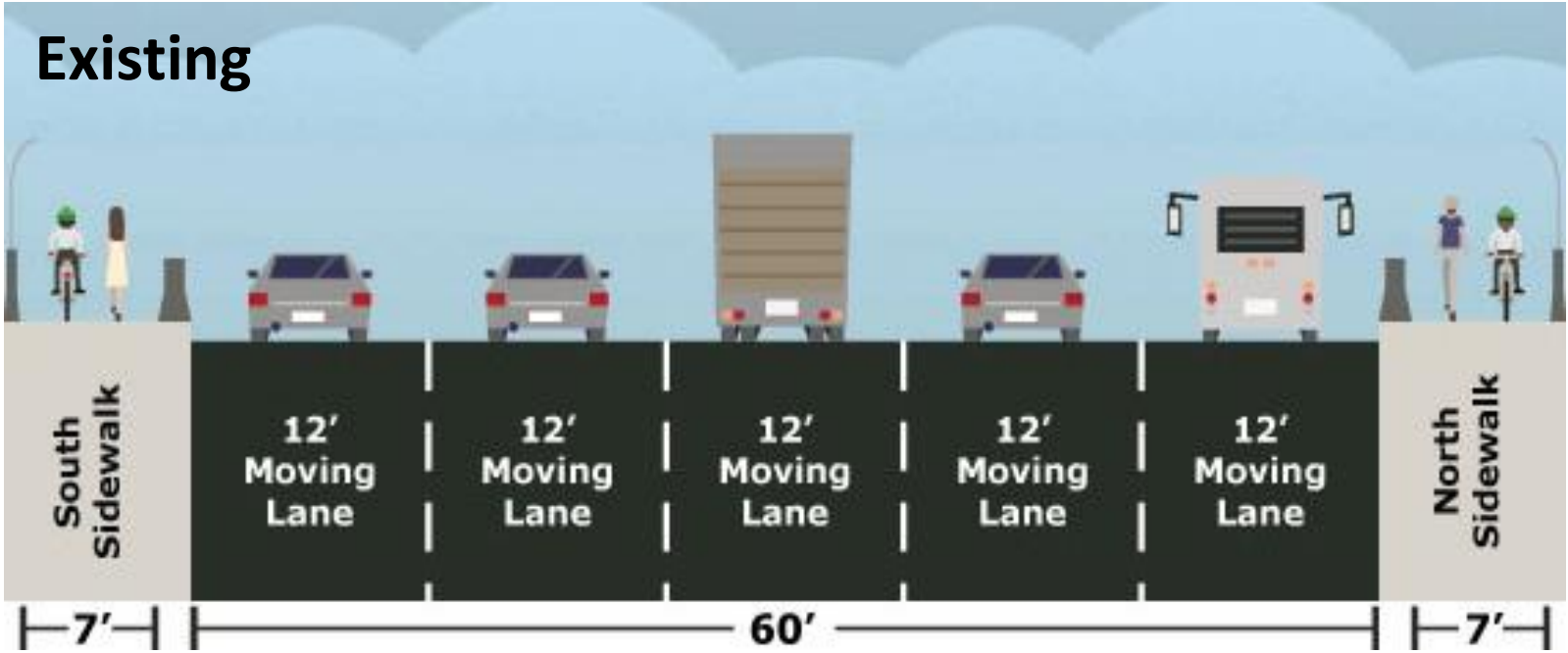
Extend ADA compliant ramp to Bruckner Blvd

Explore capital build out of path to connect bridge to greenway on Manhattan side

Rationale

On-street bicycle access on bridge not feasible with current traffic conditions

If future traffic volumes change (toll reform) on street bicycle markings should be explored



Cost Estimate: TBD

Third Ave Bridge, Willis Ave Bridge, and Randall's Island Connector

21 Willis Ave Protected Bicycle Lanes (BX)

Willis Ave: Bruckner Blvd – E 140th St

- Shorten pedestrian crossings at bridge path entrance
- Install protected bicycle path connecting bridge to existing bicycle network



Existing: Willis Ave at E 135 St, Bronx facing north



Potential: Two way protected bicycle lanes

Third Ave Bridge, Willis Ave Bridge, and Randall's Island Connector

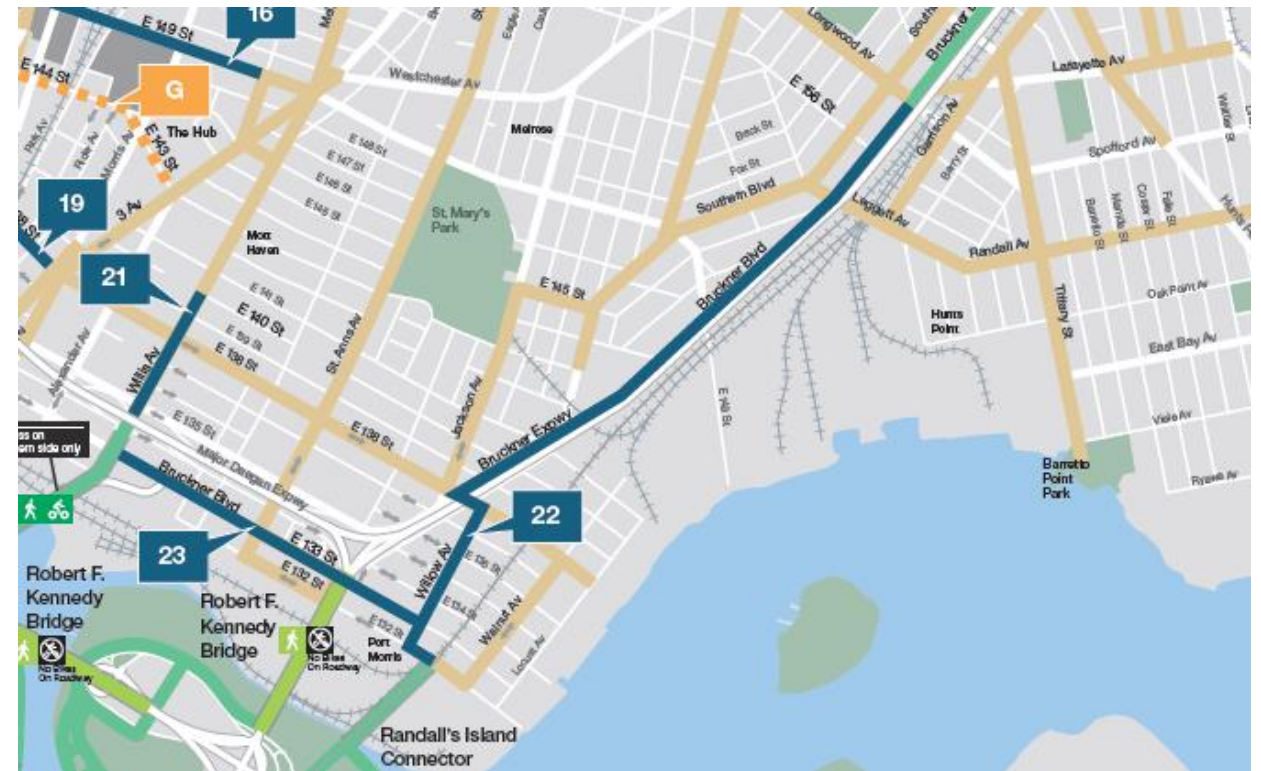
22 Willow Ave Protected Bicycle Lanes (BX)

Bruckner Blvd & E 138th St

- Increase pedestrian space, add crossing, calm traffic

E 132nd St, Willow Ave & Bruckner Blvd

- Gateway to Randall's Island
- 2-way protected bike path from bridge to existing bicycle network
- Extend protected path along Bruckner to connect to South Bronx Greenway



Potential: Concrete islands at Bruckner Blvd & Hunts Point Av, BX



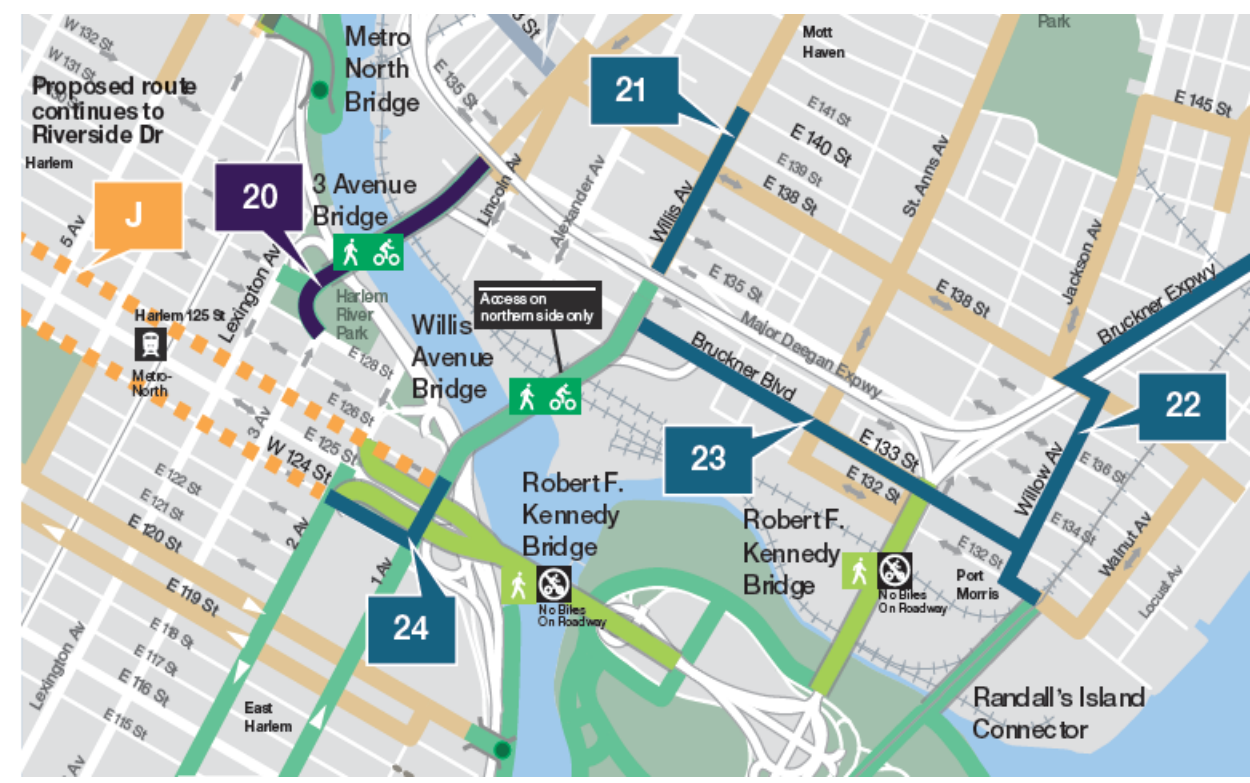
Potential: Two-way protected bicycle lanes

Third Ave Bridge, Willis Ave Bridge, and Randall's Island Connector

23 E 133rd St Protected Bicycle Lanes (BX)

Bruckner Blvd/E 133rd St: Willis Ave – Willow Ave

- Upgrade existing standard bike lane to 2-way protected path
- Extend protected path to Willis Ave Bridge – Randalls Island Connector



Existing: E 133 St at Bruckner Blvd, facing east



Potential: Two-Way protected bicycle lanes

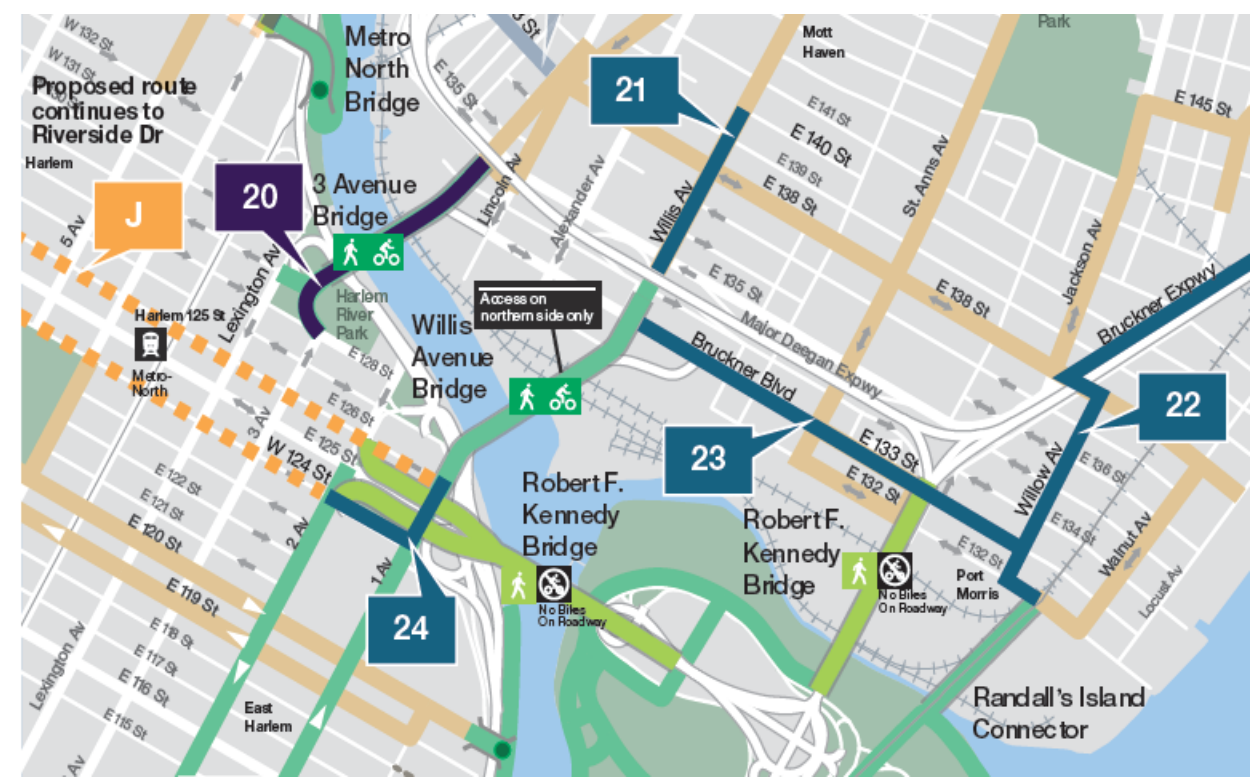
Project is going to BX CB 1 in summer 2016

Third Ave Bridge, Willis Ave Bridge, and Randall's Island Connector

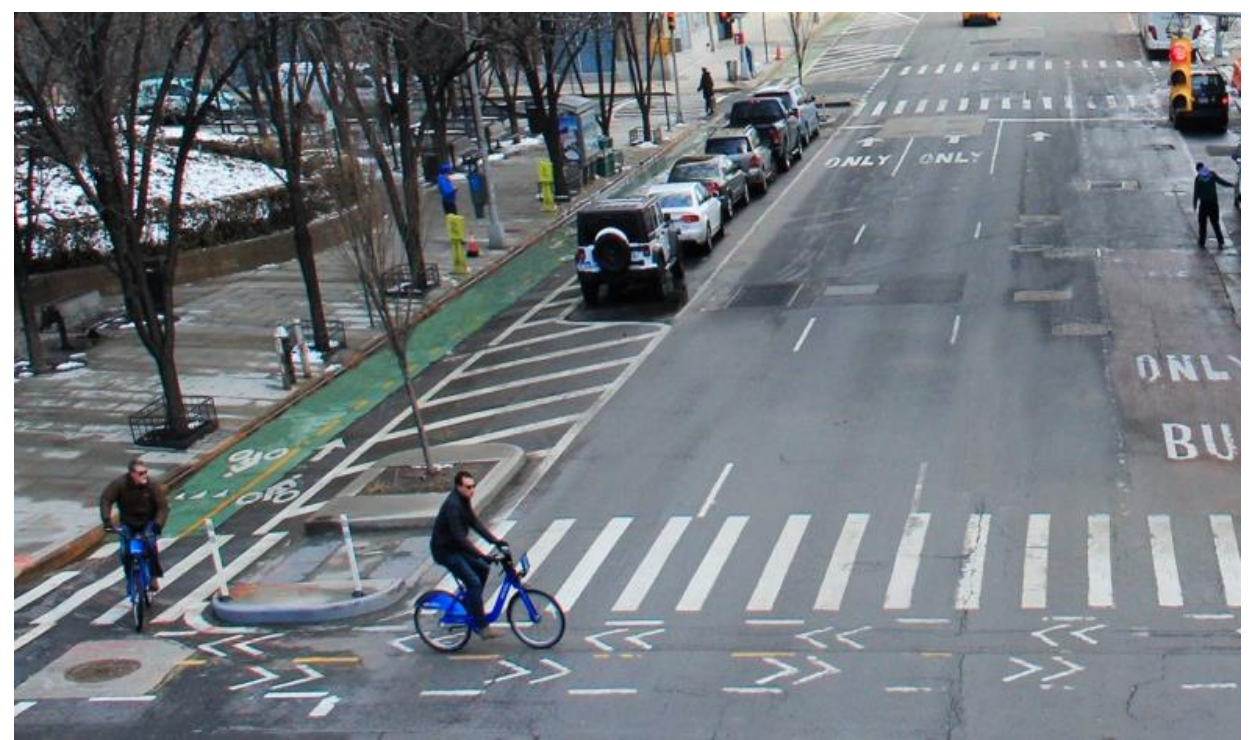
24 1st Ave Access Improvements (MN)

1st Ave & E 124th St: 2nd Ave – Willis Ave Bridge

- Install protected 2-way bike path access from Willis Ave Bridge to 1st & 2nd Ave protected bicycle lanes



Existing: 1st Ave between E 125th St and E 124th St



Potential: Converted 2-way protected bicycle lane

Harlem River South Bridges

D Macombs Dam Bridge

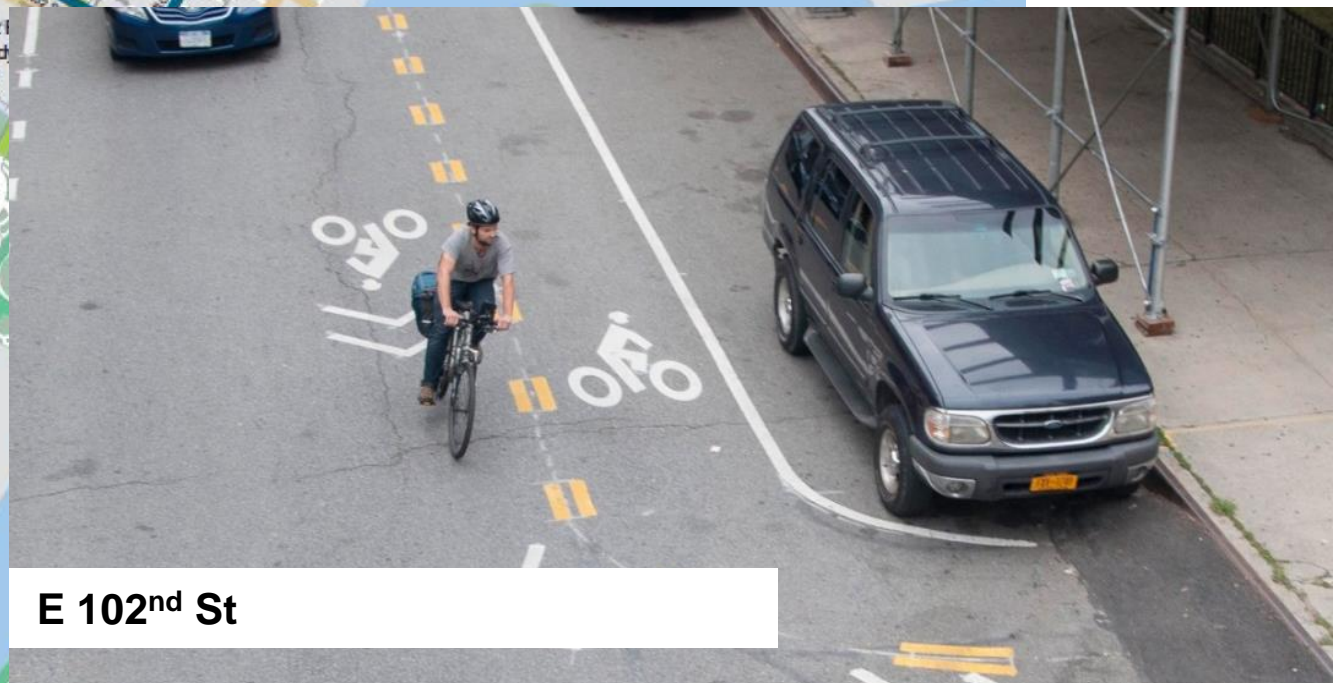
E 145th St / Madison Ave Bridges

F 3rd/Willis/Randall's Island Connector Bridges

G Wards Island Bridge



Wards Island Bridge



E 102nd St

Wards Island Bridge

Feedback

“More connections to the Greenway needed”

“Greenway is important for transportation”

“Help people find the bridge at E 102nd St”

“East-west connection needed here”

Bridge Connector Projects

25 Triborough Greenway Connector (MN)

26 Thomas Jefferson Park Connector (MN)

27 E 102nd St Access Improvements (MN)

Bicycle Network Projects

K East-west connection from Greenway/Central Park/Riverside Dr



Existing: E 102nd St Greenway access, facing north

25 Triborough Greenway Connector (MN)

Hell Gate Cir: RFK Bridge, Queens ramp – Hell Gate path

- Build out curb separated, asphalt multi use path
- Add on street bicycle markings to connect route to Hell Gate path



Existing: Hell Gate Cir, facing south



Potential: Separated multi use path

26 Thomas Jefferson Park Connector (MN)

E 111th St: New Rd – Greenway entrance

- Shift parking, add on-street, protected 2-way path
- Gateway to Thomas Jefferson Park and Manhattan Waterfront Greenway



Existing: E 111th St, facing east



Potential: 2-way parking protected path

27 E 102nd St Access Improvements (MN)

E 102nd St: 1st Ave – FDR DR

- Redesign street end into greenway gateway
- Remove barrier, improve ramp and address drainage issues



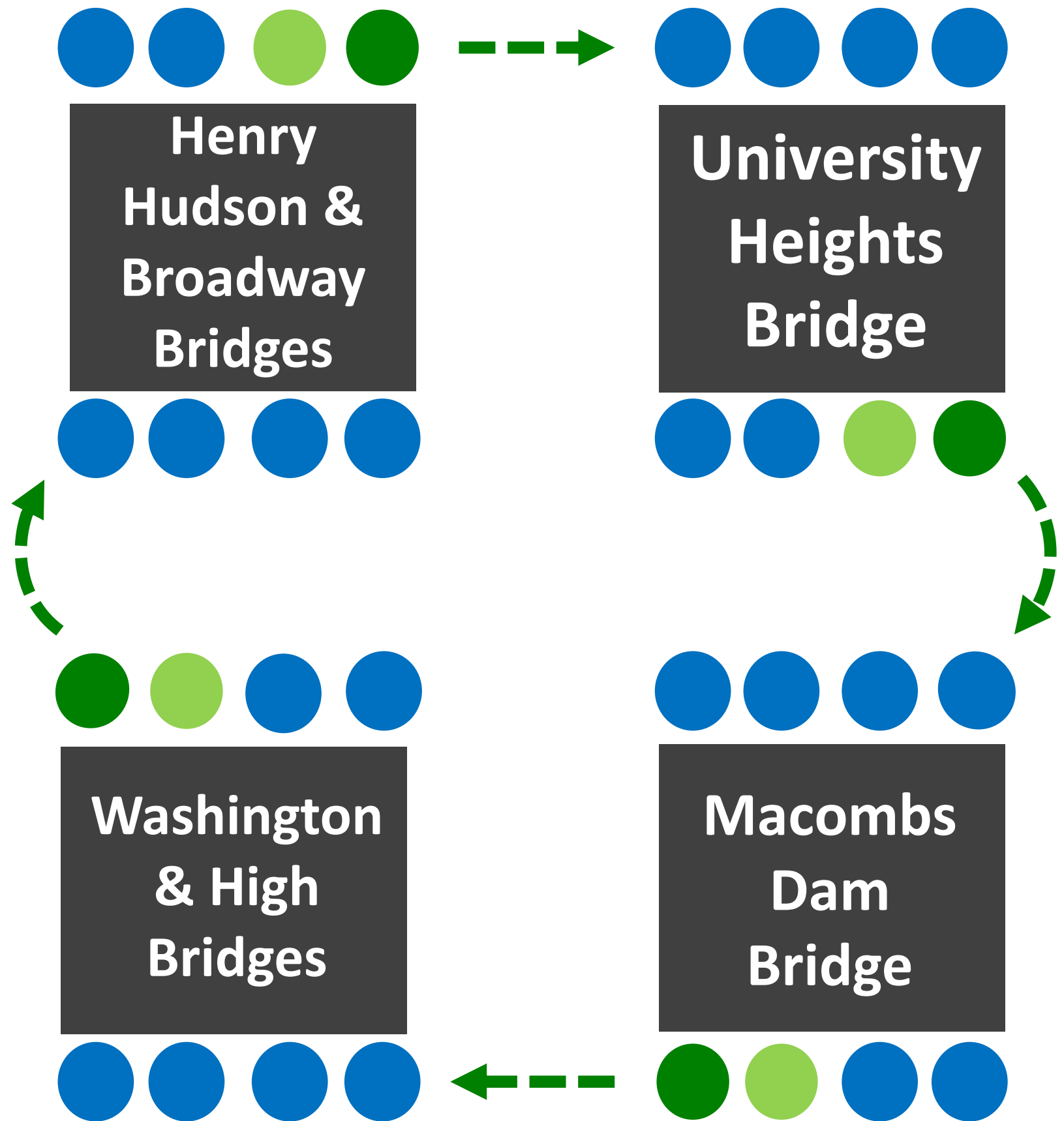
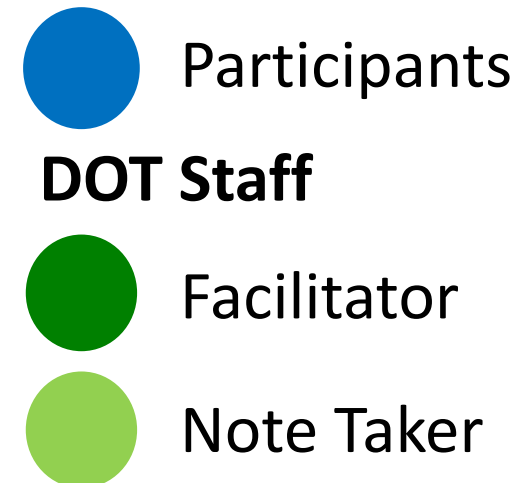
Existing: E 102nd St, facing west



Potential: Street end park, gateway to Greenway

Table Discussion

- **4 rounds of 20 minutes**
- **Facilitators will move to the next table**
- **Feedback summaries shared at end**

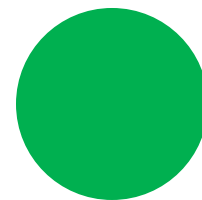


Project Priority



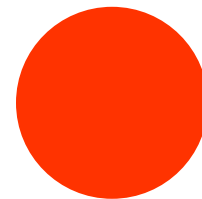
Use a sticker to “Vote” for priority projects

- Use a **Green Sticker** to mark the project you feel should be prioritized



- » Existing condition is unacceptable
- » Benefits the most people
- » Good balance of resources and impact

- Use a **Red Sticker** to mark a project you feel should be less prioritized.



- » Existing condition is acceptable
- » Benefits fewer people
- » Cost or timing too large

For More Information:

www.nyc.gov/dot

Contact Us:

HarlemRiverBridges@dot.nyc.gov

Sign up for email updates:

tinyurl.com/HarlemRiverBridgesSignUp

Round 3 Workshops:

Manhattan South
Tuesday, March 22
6:30 pm
Rio II Gallery
583 Riverside Dr, MN

Bronx North
Tuesday, March 29
6:30pm
Bronx Lebanon Hospital Murray-Cohen Auditorium
1650 Grand Concourse, BX

Bronx South
Wednesday, March 23
6:30pm
Hostos Community College Savoy Manor Building
120 E 149 Street, BX

Manhattan North
Wednesday, March 30
6:30 pm
Good Shepherd School
620 Isham St, MN