

chapter

To begin the master planning effort, relevant planning studies and capital projects at the community, district, municipal, regional and state levels were compiled and reviewed. Stock was taken of initial Greenway planning studies in order to distill key conclusions and recommendations, as well as to highlight important engineering, design, jurisdictional, and political challenges anticipated for the project.

A Literature Review fully summarizing existing data sources relevant to the project was created and is included in the Appendix. The findings of the Literature Review were used to identify gaps in previous planning efforts relative to the goals of this study, and to identify route alignment alternatives that may not have been explored in previous studies.

The process of mapping previously studied routes also revealed gaps or areas where more study was necessary. A series of Gap Analysis Maps were produced that are found in this chapter. The maps are meant to graphically illustrate those constraints discussed in the Literature Review.

Literature Review summary

Several primary studies, which have direct application to planning a greenway route within the study area, were reviewed. Key findings and conclusions from the following studies are outlined in this chapter:

Primary studies

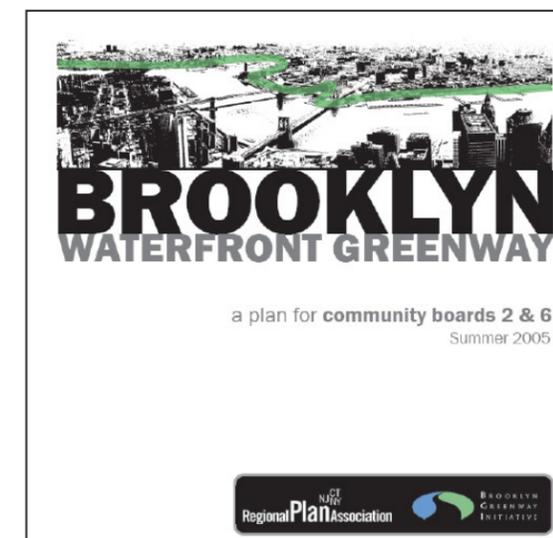
- Brooklyn Waterfront Greenway—A Concept Plan for Community Board 1
- Greenpoint—Williamsburg Open Space Master Plan
- Greenpoint—Williamsburg Waterfront Access Plan
- Dupont Street Site Plan
- 2011 NYC Cycling Map
- NYC Bicycle Master Plan
- Brooklyn Waterfront Greenway—A Concept Plan for Community Boards 2 & 6
- Brooklyn Waterfront Trail
- Conceptual Plan for a Sunset Park Greenway
- Brooklyn Waterfront Greenway—Design Principles
- Brooklyn Waterfront Greenway—Plan for Stewardship & Maintenance
- Sunset Park Waterfront Vision Plan



Summaries of the following secondary studies and development plans and maps, which provided valuable context to the planning effort, are included in the complete Literature Review, located in the Appendix:

Secondary studies

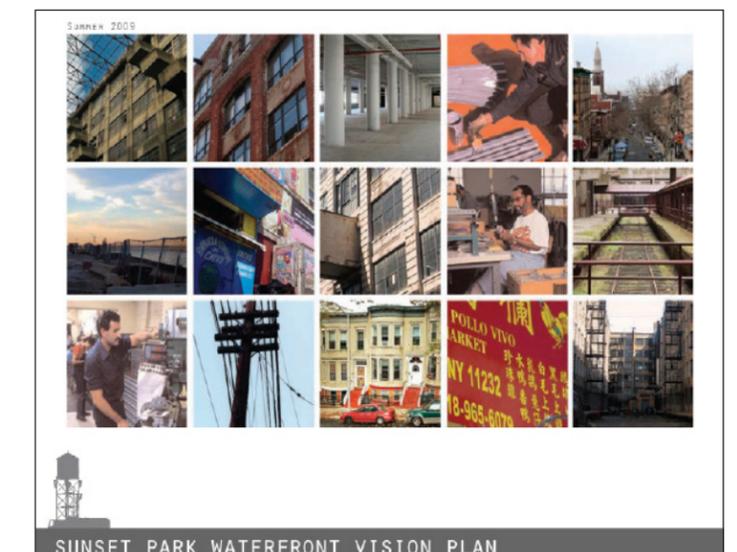
- Greenpoint 197—A Plan, CB 1
- Williamsburg Waterfront 197—A Plan, CB 1
- Vinegar Hill Zoning Study
- Red Hook: A Plan for Community Regeneration, CB 6
- Red Hook Truck Study
- New Connections/New Opportunities—Sunset Park 197-A Plan Brooklyn
- NYC Comprehensive Waterfront Plan—Reclaiming the City's Edge
- A Planning Primer: Greenways—Ideas for Making Greenways Valuable Neighborhood Enhancements
- New Amsterdam Waterfront Exchange Summary Report
- The New Waterfront Revitalization Program



Additionally, several development plans and maps were reviewed that directly impact the study area including the following:

Development plans and maps

- Waterfront Developments for CB2 and CB6
- Transmitter Park Redevelopment Environmental Assessment Statement
- Domino Sugar Rezoning Draft Environmental Impact Statement
- Rose Plaza on the River Environmental Assessment Statement
- Request for Proposals for Developer of Admiral's Row
- Brooklyn Bridge Park Construction Documents
- Port Authority of New York and New Jersey Map of Piers 7-12





EXISTING BIKEWAYS (C) :

- PROTECTED BICYCLE PATH
- STRIPED BICYCLE LANE
- SHARED LANE

POTENTIAL BIKEWAY IN NYC BIKE MAP (C) :

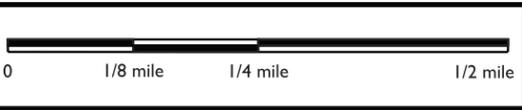
- - - PROTECTED BICYCLE PATH
- - - STRIPED BICYCLE LANE OR SHARED LANE

SOURCES:

(A) 1997 NYC BICYCLE MASTER PLAN (DOT + DCP)
 (B) A USER'S GUIDE TO THE BROOKLYN WATERFRONT GREENWAY 2009-2010 (BGI)
 (C) NYC FREE CYCLING MAP 2011 (NYC + DOT + DCP + DPR)
 (D) BROOKLYN WATERFRONT DEVELOPMENTS DOCUMENT (DCP)
 (E) GREENPOINT-WILLIAMSBURG OPEN SPACE MASTER PLAN
 (F) GREENPOINT-WILLIAMSBURG EAST RIVER WATERFRONT PARCEL AND PROJECT LIST
 (G) GREENPOINT-WILLIAMSBURG ACCESS PLAN
 (H) DUPONT STREET SITE PLAN
 (I) TRANSMITTER PARK REDEVELOPMENT ENVIRONMENTAL ASSESSMENT STATEMENT
 (J) DOMINO SUGAR REZONING DRAFT ENVIRONMENTAL IMPACT STATEMENT
 (K) ROSE PLAZA ON THE RIVER ENVIRONMENTAL ASSESSMENT STATEMENT
 (L) REQUEST FOR PROPOSALS FOR DEVELOPER OF ADMIRAL'S ROW (BNYDC)
 (M) BROOKLYN BRIDGE PARK CONSTRUCTION DOCUMENTS (DPR)
 (N) PORT AUTHORITY OF NEW YORK AND NEW JERSEY MAP OF PIERS 7-12 (PANYNJ/NYCDOT)

OTHER :

- - - PROPOSED GREENWAY BY BGI (B)
- - - PLANNED BIKEWAY ALONG KENT AVENUE (DPR) (M)
- - - 1997 BICYCLE MASTER PLAN ROUTE (A)
- - - PROPOSED PEDESTRIAN ONLY ROUTE (BGI) (B)
- - - EXISTING PEDESTRIAN ONLY ROUTE
- PROPOSED DEVELOPMENT
- PUBLIC HOUSING
- EXISTING PARK
- PROPOSED PARK



Brooklyn Waterfront Greenway—A Concept Plan for Community Board 1

2008, Brooklyn Greenway Initiative and Regional Plan Association
 Sponsor: Brooklyn Borough President's Office

This plan identifies the publicly endorsed route through Community Board 1 and details the steps and partnerships necessary to ensure the route's implementation. Developed with local communities and through consultation with technical and policy experts, the Concept Plan is one of a number of publications that outline the conceptual planning principles of the Greenway.

Greenpoint - Williamsburg Open Space Master Plan

2007, NYC Department of Parks and Recreation (DPR) in conjunction with the Office of the Mayor, the NYC Department of City Planning (DCP), and the NYC Economic Development Corporation (EDC).

This document guides the open space development along a two-mile stretch of the East River from Manhattan Avenue and North 3rd Street to West Street and Kent Avenue. This plan is built upon the Greenpoint and Williamsburg 197-A plans and the 2005 rezoning recommendations, as well as two community based plans: the Vision Plan for Brooklyn's Green Crescent, March 2006, and the Greenpoint/Williamsburg Open Space Plan, November 2004.

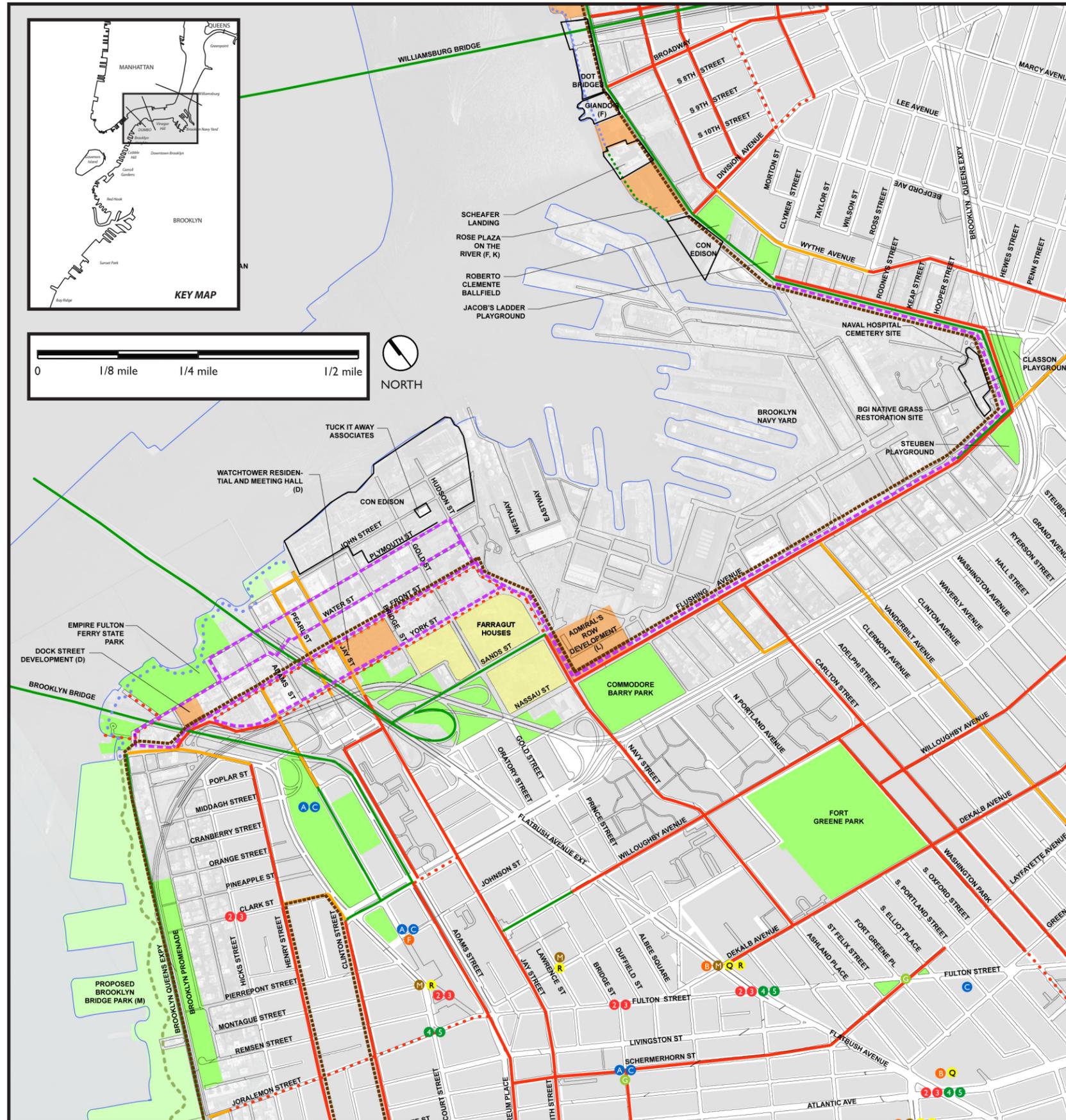
The Master Plan provides plans and conceptual designs for waterfront access in the form of 45 acres of public parks and 2.5 miles of shore public walkway built by a combination of public agencies and private developers.

Greenpoint - Williamsburg Waterfront Access Plan

2004, NYC Department of City Planning
 This plan illustrates proposed locations for a shore public walkway, supplemental public access areas, public parks, and future open space along the waterfront from Newtown Creek in Greenpoint to North 3rd Street in Williamsburg.

Dupont Street Site Plan

This technical site plan depicts an expansion of public open space from the Newtown Barge Terminal Playground to the waterfront, and the addition of a narrow strip of green space along the waterfront between the development and the East River. The plan also shows a proposed residential development on the property bordered by the East River and West Street, between Dupont Street and Eagle Street in Greenpoint.



Brooklyn Waterfront Greenway—A Concept Plan for Community Boards 2 & 6

2005, Brooklyn Greenway Initiative and Regional Plan Association
 Sponsor: Brooklyn Borough President’s Office

This plan proposes planning principles, design objectives, and a conceptual route for the Greenway in Community Boards 2 and 6, covering the waterfront from Division Avenue in South Williamsburg to the Hamilton Avenue Bridge over the Gowanus Canal. The plan also identifies many public and private partnerships that will be needed for the Greenway to be realized.

Brooklyn Waterfront Trail

1998, NYC Department of City Planning

This document outlines the plans for a 5-mile pedestrian and bike path paralleling the Brooklyn waterfront between Brooklyn Bridge and the Erie Basin, as proposed in the NYC Department of City Planning’s Greenway Plan for New York City in 1993. The identified route was considered to offer the best balance of safety, proximity to the waterfront, connections to commuter and recreational destinations, and potential for landscaped greenway paths. The recommendations include a combination of shared-use paths and on-street bike lanes on Furman Street, Columbia Street, Van Brunt Street, Imlay Street, Ferris Street, Beard Street, Bay Street and West 9th Street, with segments of pedestrian routes included.

The study recommends continuing the Greenway north of Brooklyn Bridge Park and southeast of Red Hook to 9th Street and the Gowanus Canal. It also recommends that future planning for maritime industries should encourage more integration with the upland neighborhood where feasible, and develop public viewing opportunities.

NYC Bicycle Master Plan

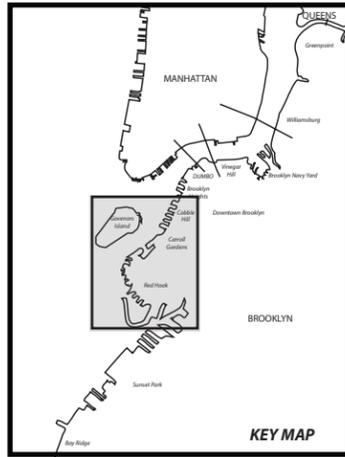
1997, NYC Department of City Planning and NYC Department of Transportation

The NYC Bicycle Master Plan was the final report of the first phase of the Bicycle Network Development Project, a joint project between the NYC Department of City Planning and the NYC Department of Transportation. The goal of this project is to increase bicycle ridership in New York City. The Brooklyn Bicycle Network map included with this plan proposes bicycle routes for the whole borough. Several of these routes are proposed within the Greenway study area. The routes on the map are represented by varying line types which depict proposed routes, proposed priority routes, and proposed routes requiring capital investment. The plan considers the Brooklyn Waterfront Trail plan and the Red Hook 197-A Plan.

2011 NYC Cycling Map

2011, NYC Department of Transportation, Department of City Planning, Department of Parks & Recreation

This cycling map is updated each year to document existing and potential bike routes, lanes and paths throughout New York City. It was used when considering connections to and from the Greenway and to other existing and potential bicycle facilities.



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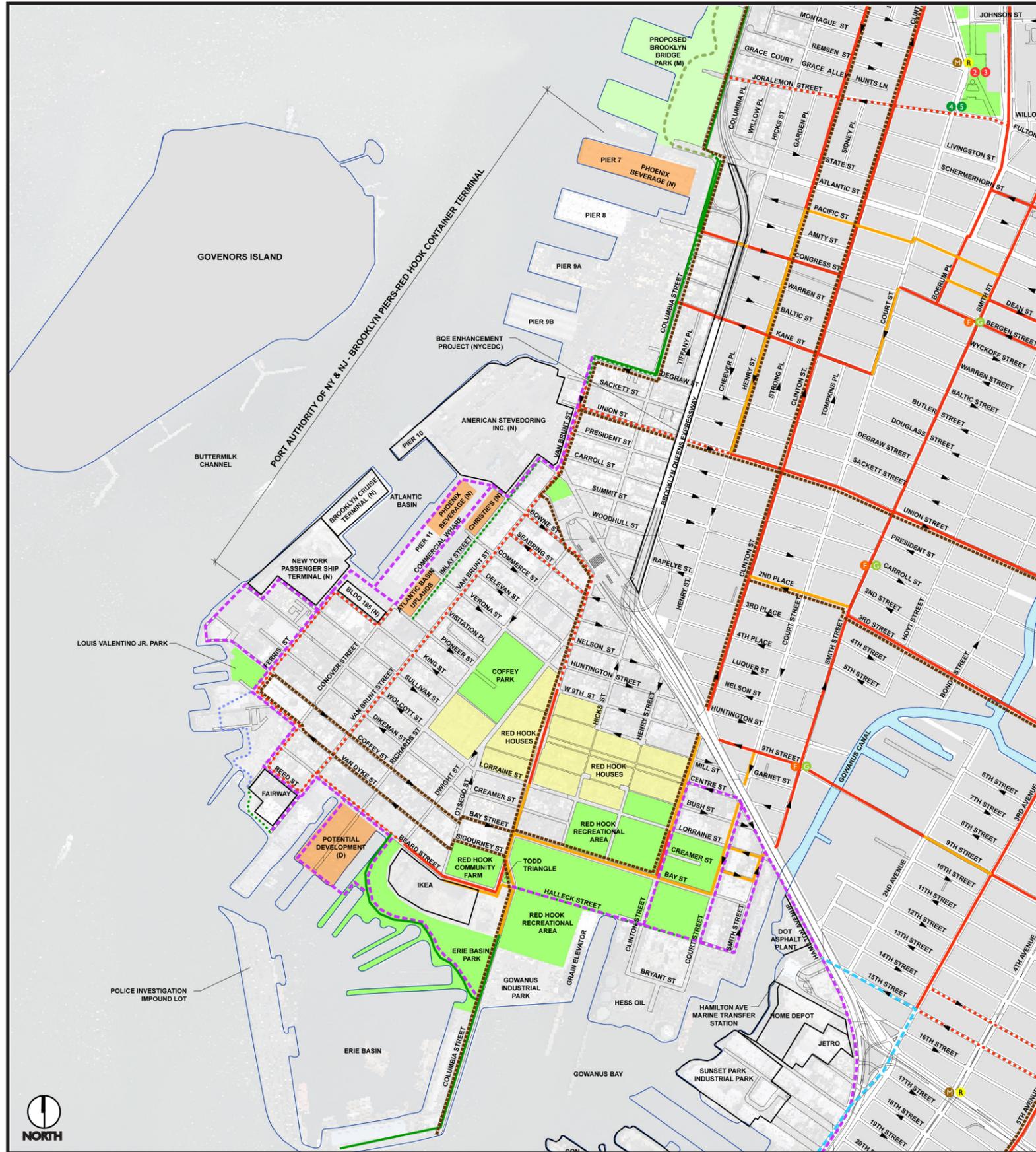
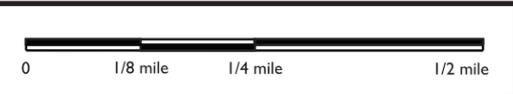
POTENTIAL BIKEWAY IN NYC BIKE MAP (C) :

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 (B) A USER'S GUIDE TO THE BROOKLYN WATERFRONT GREENWAY 2009-2010 (BGI)
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 (D) BROOKLYN WATERFRONT DEVELOPMENTS DOCUMENT (DCP)
 (M) BROOKLYN BRIDGE PARK CONSTRUCTION DOCUMENTS (DPR)
 (N) PORT AUTHORITY OF NEW YORK AND NEW JERSEY MAP OF PIERS 7-12 (PANYNJ/DOT)
 (O) INDUSTRY CITY PARKING ENVIRONMENTAL ASSESSMENT STATEMENT
 (P) REQUEST FOR PROPOSALS FOR FEDERAL BUILDING #2 REDEVELOPMENT
 (Q) BUSH TERMINAL PIERS OPEN SPACE, PAVEMENT STRIPING AND SIGNAGE PLANS (EDC + DPR)
 (R) SUNSET PARK WATERFRONT VISION PLAN (EDC)
 (S) CONCEPTUAL PLAN FOR SUNSET PARK GREENWAY (UPROSE + PRATT)
 (T) NEW CONNECTIONS/NEW OPPORTUNITIES: SUNSET PARK 197-A PLAN (CB7)
 (U) MARINE CARGO SYSTEM PLAN FOR THE CITY OF NEW YORK (EDC)

OTHER :

- - - PROPOSED GREENWAY BY BGI (B)
- - - PROPOSED PEDESTRIAN ONLY ROUTE BY BGI (B)
- - - EXISTING PEDESTRIAN ONLY ROUTE
- - - PROPOSED GREENWAY BY UPROSE + PRATT (T)
- - - UPLAND CONNECTORS BY UPROSE + PRATT (T)
- - - PEDESTRIAN FRIENDLY STREETScape BY EDC (S)
- - - PLANNED BIKEWAY WITHIN BROOKLYN BRIDGE PARK (M)
- - - 1997 BICYCLE MASTER PLAN ROUTE (A)
- PROPOSED DEVELOPMENT
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Brooklyn Waterfront Greenway-Design Principles

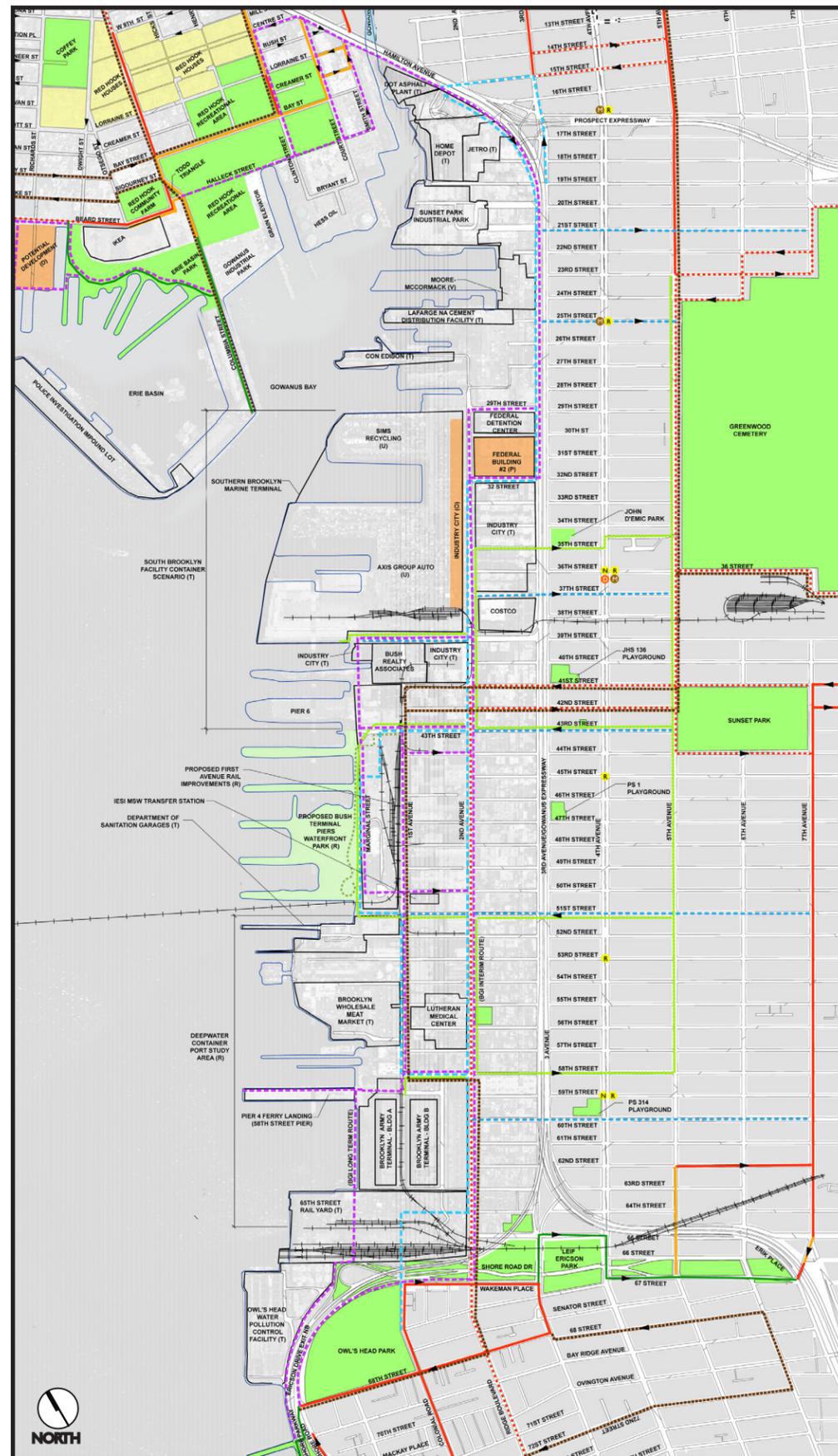
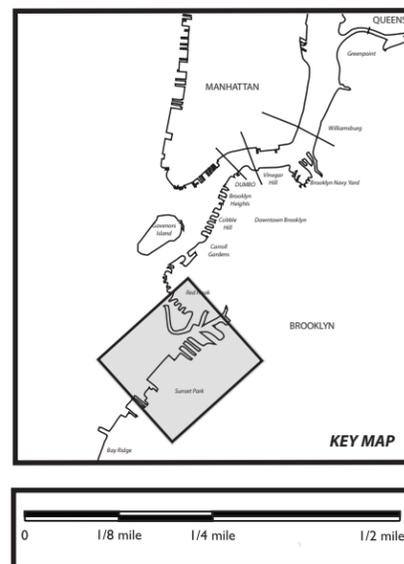
2008, Brooklyn Greenway Initiative and Regional Plan Association
 Sponsor: Office of the Brooklyn Borough President

The Design Principles identify reoccurring elements that will signify to users along the path that it is the Brooklyn Waterfront Greenway. The plan lists various greenway elements with descriptions and responsible parties, as well as common greenway challenges and possible design solutions. Elements include signage, standard City path markings, lighting standards, and associated structures and furnishings.

Port Authority of New York and New Jersey Map of Piers 7-12

Port Authority of New York and New Jersey

This map identifies the existing and proposed developments from Pier 7 to Pier 12 in the Red Hook Waterfront area.



Brooklyn Waterfront Greenway–Plan for Stewardship & Maintenance

2008, Brooklyn Greenway Initiative and Regional Plan Association

This plan recognizes the unique challenges that result from the Greenway right-of-way comprising property that is under the jurisdiction of up to eight public agencies. Maintenance services, demand, and responsibility are identified. A provision of maintenance is outlined for various segments, as well as a table highlighting the maintenance costs of existing parks and greenways and a maintenance cost estimate for the proposed Greenway from Greenpoint to Red Hook.

Sunset Park Waterfront Vision Plan

Summer 2009, NYC Economic Development Corporation

This plan states that creating safe public access to the waterfront while maximizing the area's utility for industry is a critical issue to address in order to ensure the long-term success of the Sunset Park waterfront.

The plan highlights the City's investment in rail upgrades along First Avenue to increase its functionality for freight transportation, giving businesses along the Sunset Park industrial waterfront a more efficient link to regional rail networks via the Bay Ridge line at 65th Street, and points west via the cross-harbor rail barge floats at 65th and 51st Streets.

The plan recommends activation of the rail and marine transfer hub at the 65th Street yard, which sits at a critical juncture between the harbor, the Bay Ridge regional rail line, and the First Avenue rail line.

Also addressed in the plan are the vehicular, pedestrian, and bicycle circulation improvements catalyzed by the construction of Bush Terminal Piers Park. These circulation improvements will not only separate industrial traffic at the Bush Terminal Campus from the Park users, but will serve as a model for future improvements in the rest of the industrial waterfront district.

Conceptual Plan for a Sunset Park Greenway

2008, United Puerto Rican Organization of Sunset Park (UPROSE) and Pratt Center for Community Development Sponsor: Brooklyn Borough President and the New York State Department of State

This conceptual plan emphasizes the importance of having a recreational waterfront that is connected to the adjacent inland community along streets that are designed for bicycling and walking. General traffic calming measures are recommended along the Greenway route and inland connectors to create safe pedestrian/bicycle accommodation.

The plan acknowledges that the waterfront is home to active industrial uses, and that it is important to provide public space on the waterfront for the surrounding community and for those that work there. It also recommends that signage and public art be reflective of common values.

