



Schematic Design of the Brooklyn Waterfront Greenway as a Flood Barrier in Red Hook

Brooklyn Community Board 6

October 18, 2017











THE BROOKLYN GREENWAY AS FLOOD PROTECTION AND EMERGENCY ACCESS

JULY 26, 2017











These materials and this study were prepared with funding provided by the New York State Department of State under Title 11 of the Environmental Protection Fund





Project Overview

Develop schematic designs for the Brooklyn Waterfront Greenway in Red Hook with the following guidelines:

- Incorporate the Red Hook IFPS with the Brooklyn Waterfront Greenway
- Provide flood protection for a large storm event (considered 50-year flood)
- Provide emergency egress for Red Hook during a flood
- Designs were coordinate with agencies (MORR and NYCDOT)





Project Overview

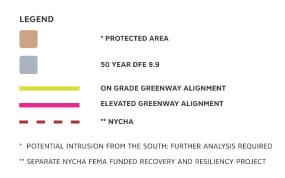
Additional design goals:

- Close proximity to the Red Hook waterfront
- Provided physical separation between the Greenway and vehicular travel
- Create public amenity spaces
- Provide stormwater detention



PROJECT AREA

BOWNE ST, CLINTON WHARF, FERRIS ST.



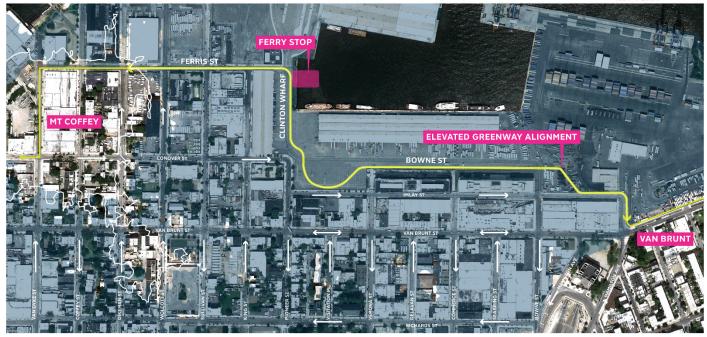




EXISTING CONDITIONS



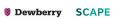
















WHY BOWNE ST?

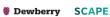








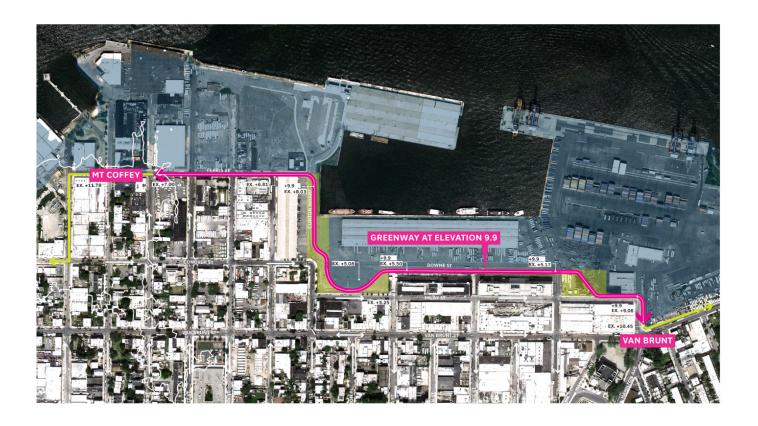








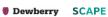
RAISED GREENWAY AS FLOOD PROTECTION







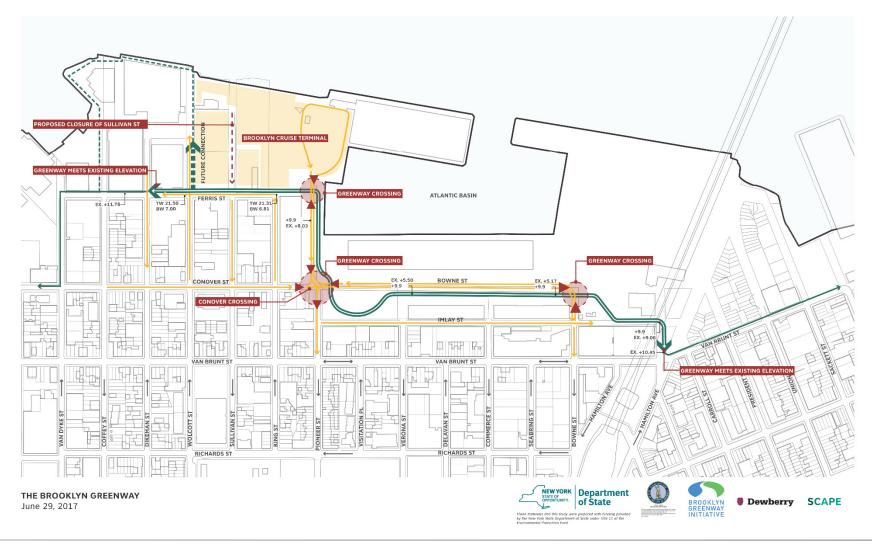






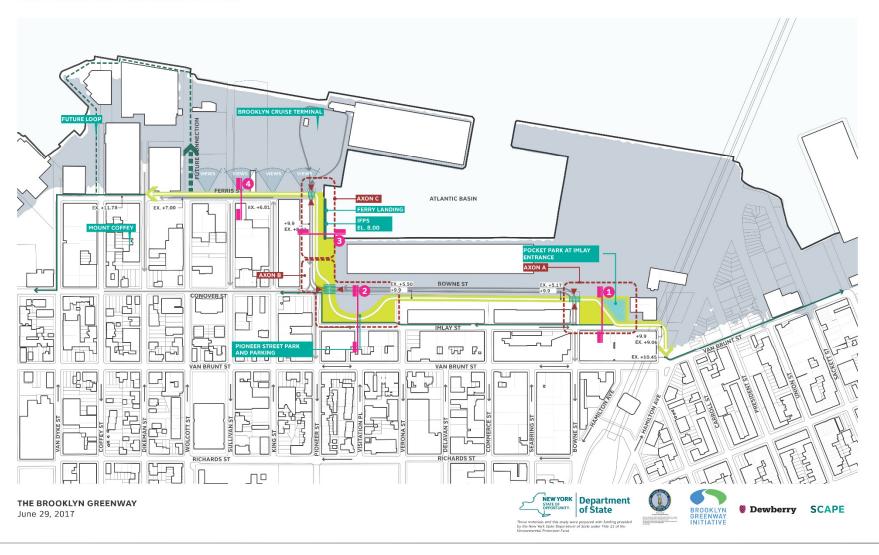


TRAFFIC PATTERNS





GREENWAY OPPORTUNITIES PLAN





EXISTING CONDITIONS AT IMLAY ST AND BOWNE STREET

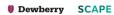






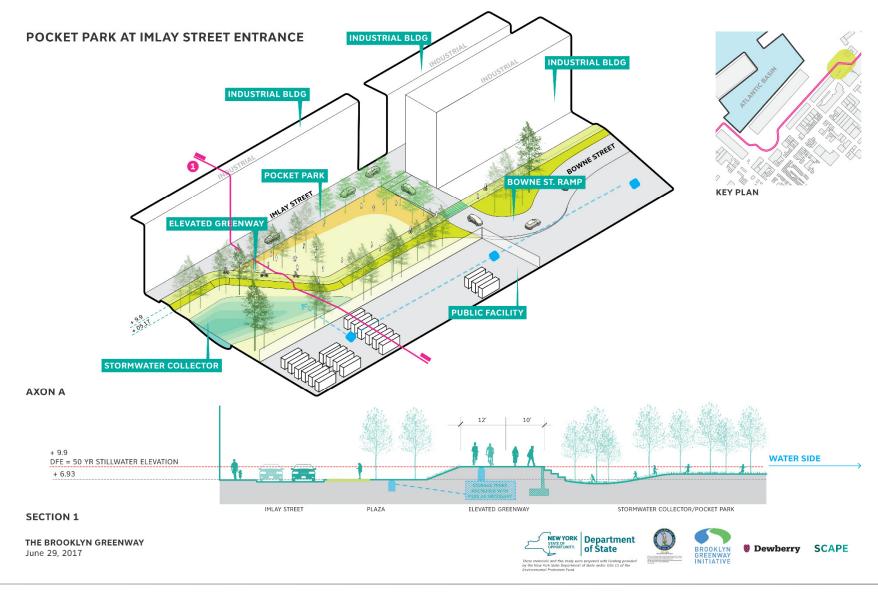














EXISTING PARKING AT BOWNE STREET







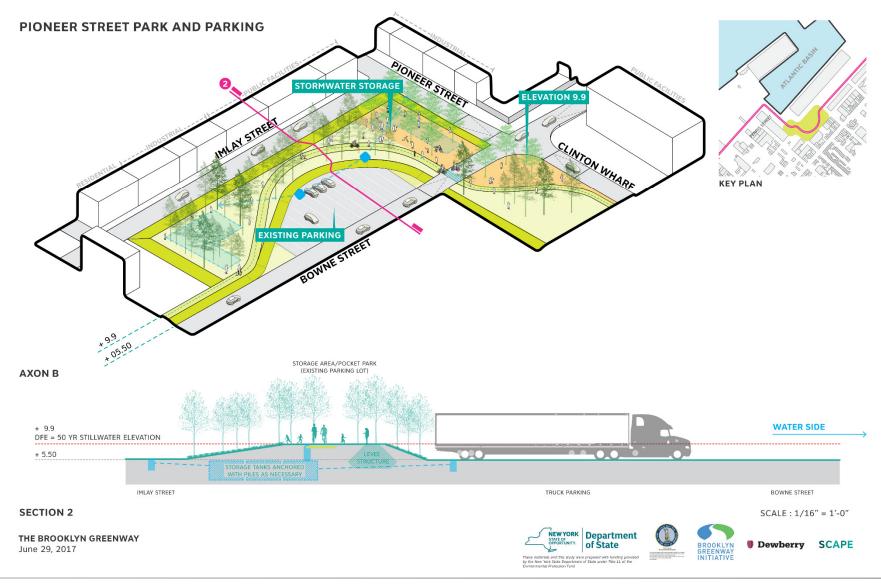














EXISTING ROAD TO CRUISE TERMINAL AT CLINTON WHARF







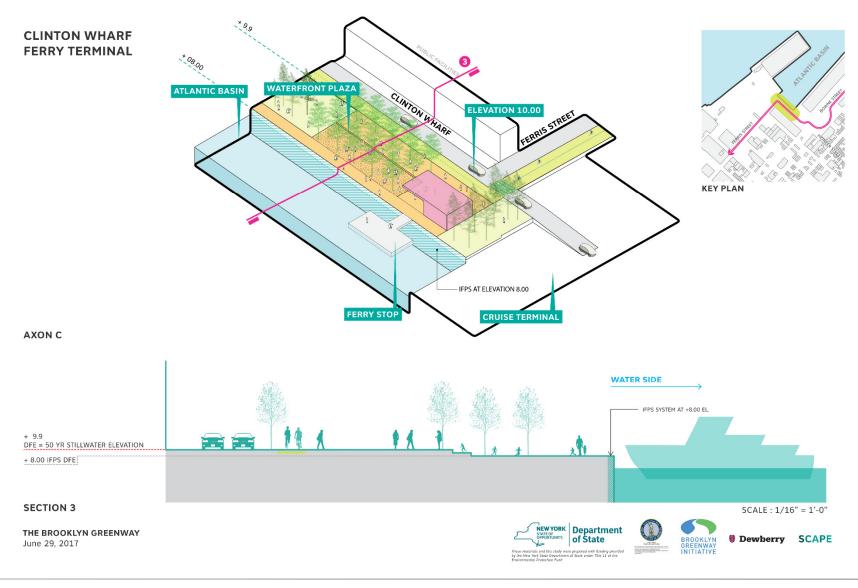








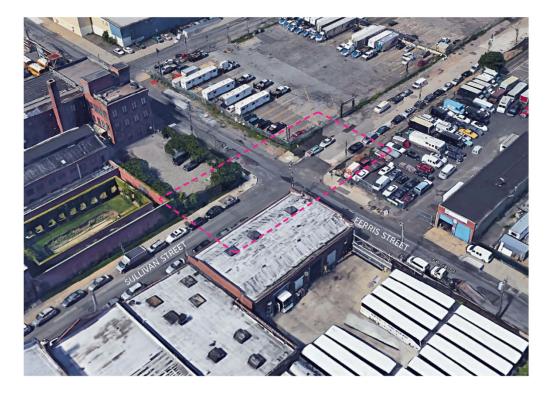






Cchamatic Deciane in Rad Hook

EXISTING SULLIVAN STREET AND FERRIS STREET INTERSECTION

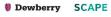






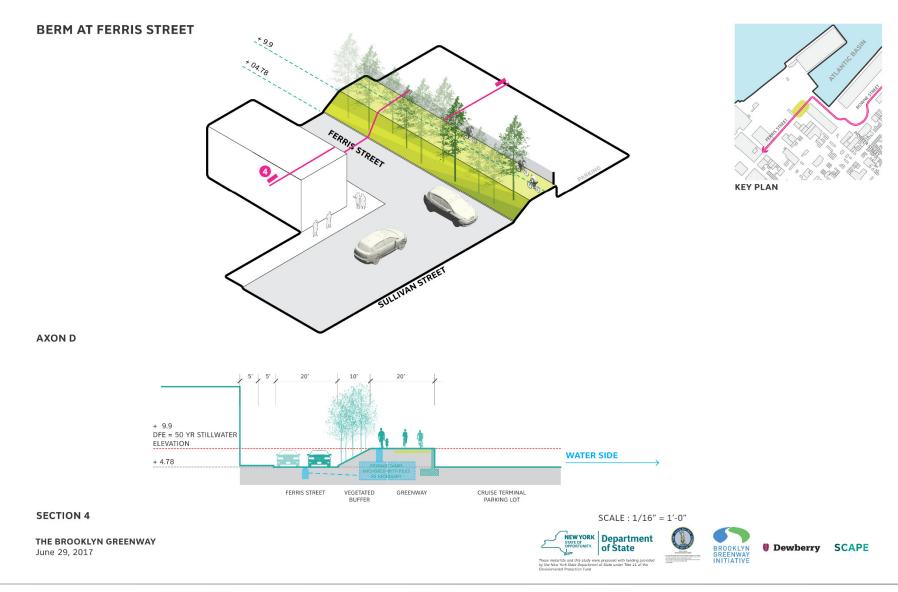






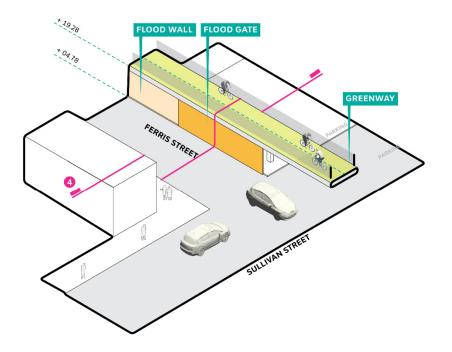






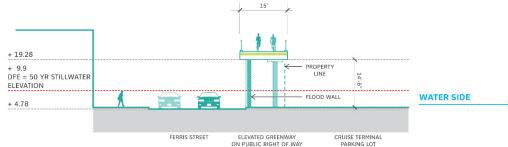


ELEVATED BRIDGE AT FERRIS STREET





AXON D ALT.



SECTION 4 ALT.

THE BROOKLYN GREENWAY June 29, 2017

Department of State







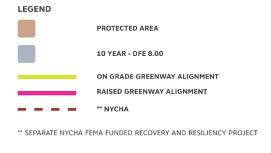


HOW CAN THE GREENWAY
SYNTHESIZE WITH THE
INTEGRATED FLOOD
PROTECTION SYSTEM (IFPS)?



IFPS FLOOD PROTECTION

10 YEAR FLOOD EVENT CONSIDERED



THE BROOKLYN GREENWAY

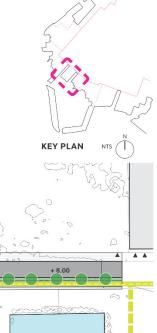
June 29, 2017

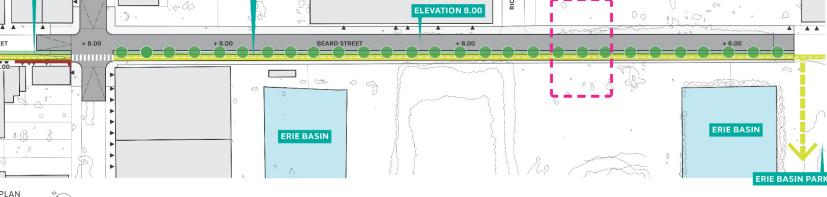
BEARD ST IFPS (10 YR) & GREENWAY INTEGRATION AT BEARD ST. Department Department **■ Dewberry SCAPE**



TWO-WAY GREENWAY ALIGNMENT

BEARD STREET GREEN WAY AND IFPS ALIGNMENT





DRAFT CONCEPTUAL DESIGN FOR DISCUSSION PURPOSES ONLY

THE BROOKLYN GREENWAY June 29, 2017

SCALE: 1" = 100'



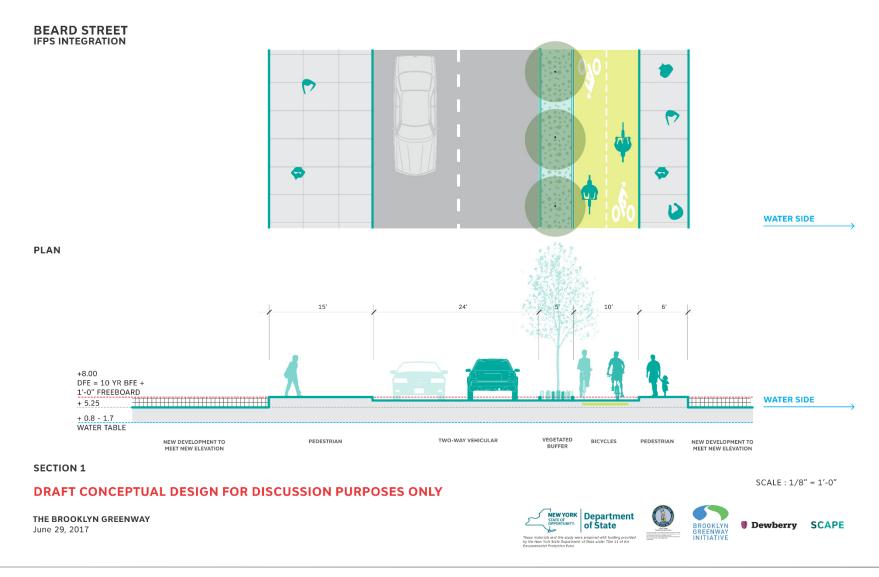














Next Steps

- Conduct a feasibility Study
- Coordinate with EM, NYPD and FDNY
- Continue coordination with NYCDOT and property owners

