

BK Bridge - Montgomery Coastal Resilience

October 2, 2019

Public Meeting - Design Progress for Two Bridges Neighborhood Project PS 2 Meyer London







Agenda

1 Lower Manhattan Coastal Resiliency

2 Project Recap

3 Design Updates

Open House



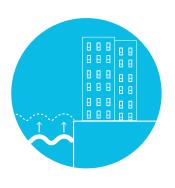




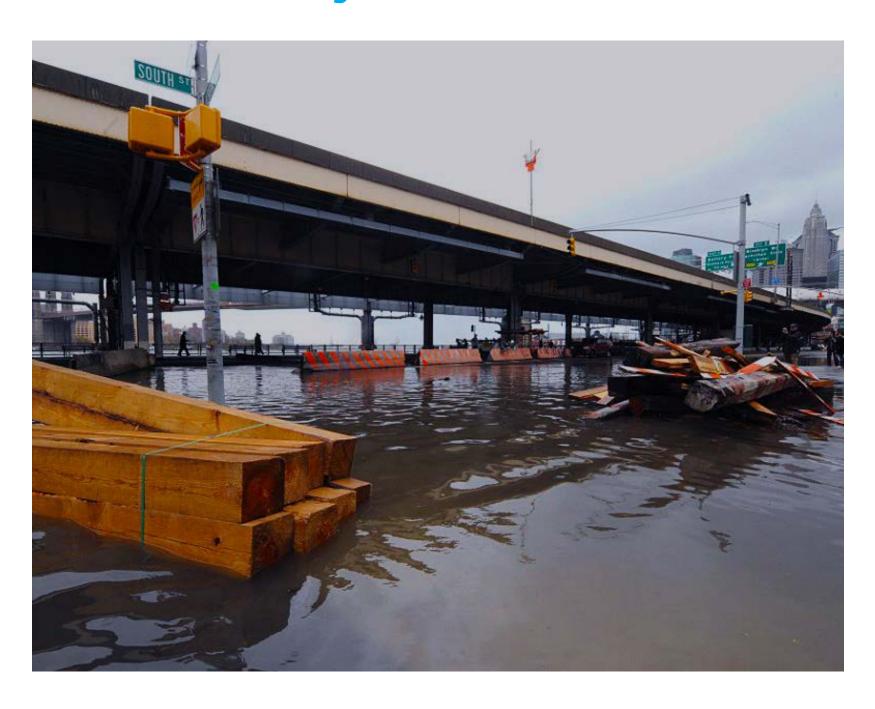
Flood Risk



Storm Surge



Sea Level Rise (SLR)









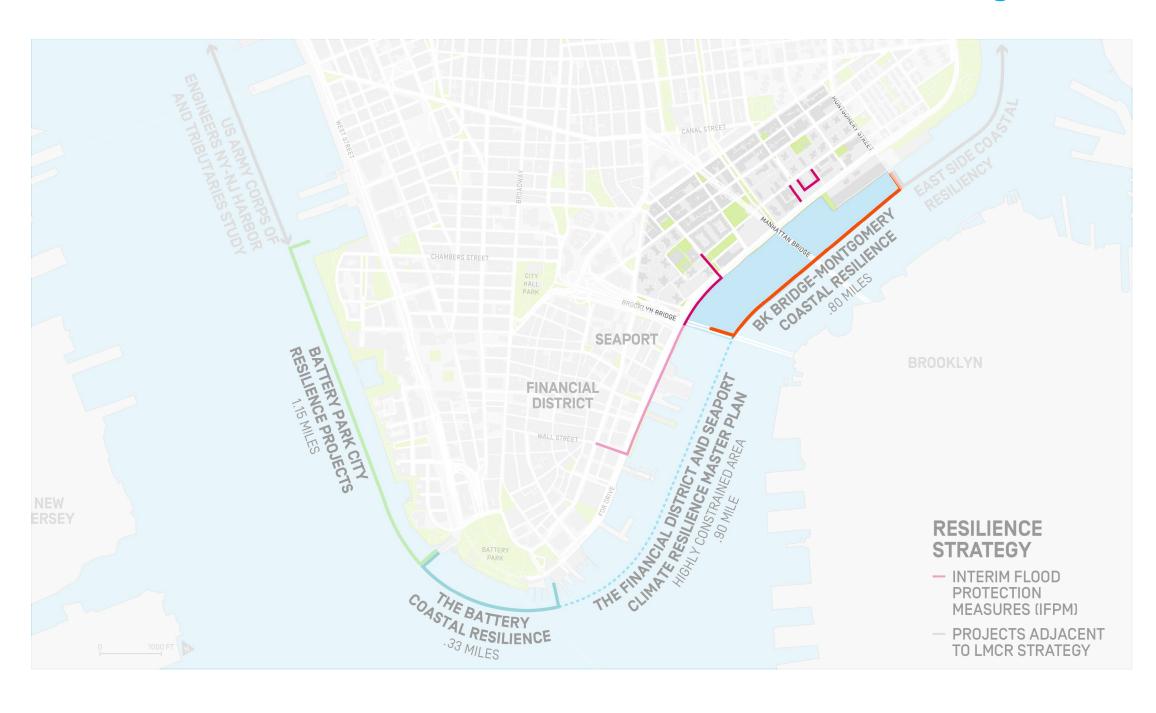


New York City is implementing \$500M in on-land capital projects in Lower Manhattan and advancing a Master Plan for FiDi-Seaport









The **BK Bridge-Montgomery Coastal Resilience** (BMCR) project in the Two Bridges neighborhood will reduce flooding while maintaining the community's views and access to the waterfront.

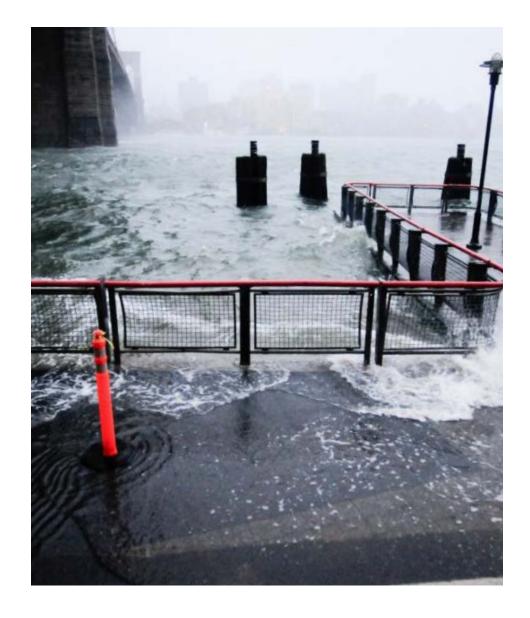




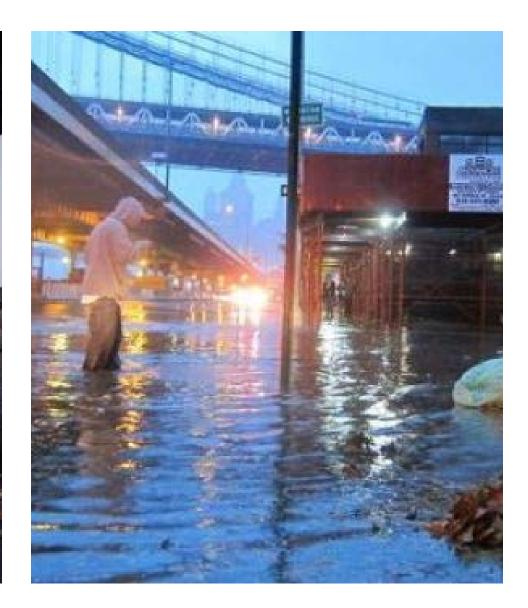




Flood damage in Two Bridges from Hurricane Sandy





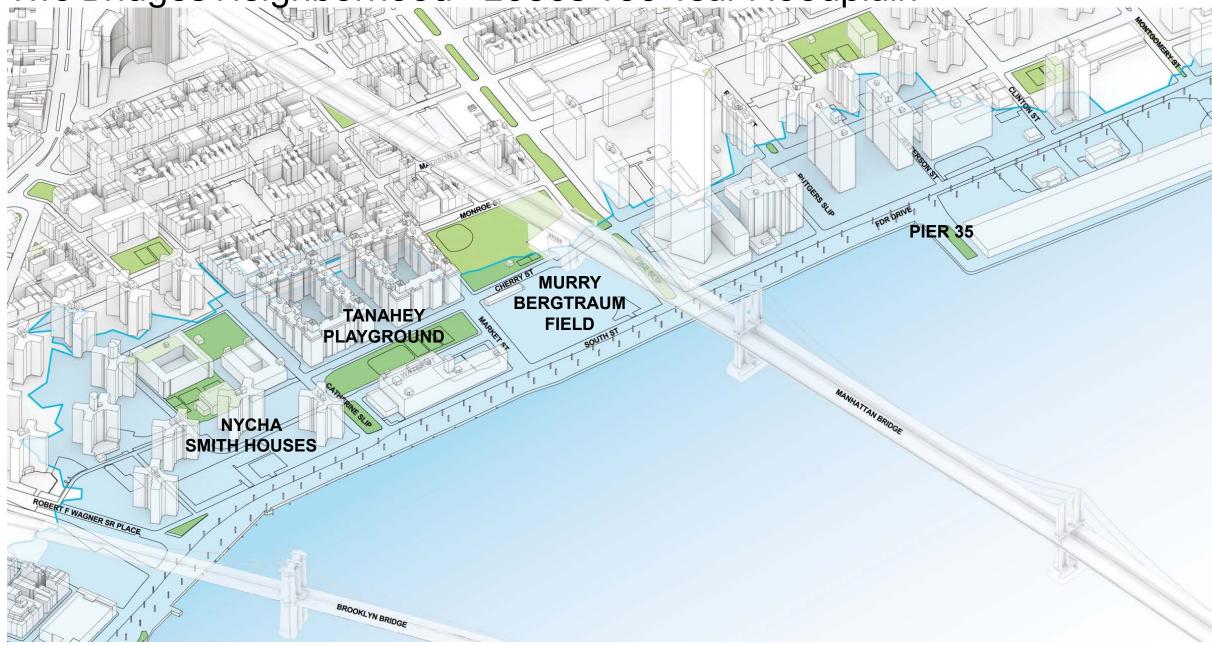








Two Bridges Neighborhood - 2050s 100-Year Floodplain











 2016
 2017
 2018
 2019
 2020
 2021
 2022

Brooklyn Bridge - Montgomery Coastal Resilience Timeline



Refined Coastal Analysis



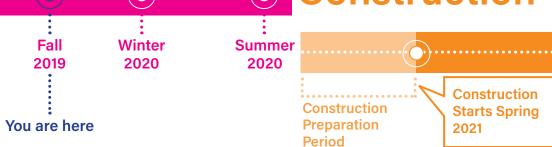
- Large-format public meetings
- Quarterly updates and regular touchpoints with community board and elected officials
- Briefings for housing TAs
- 'Office hours' tabling sessions in the community
- LinkNYC advertising



3
Public Meetings

Construction

Community
Engagement Will
Continue During
Construction











We heard from the Two Bridges community that the project should try to achieve these goals:



Provide Flood Protection and Resilience



Preserve Views + Access



Distribute Program Equitably



Integrate Infrastructure into Public Realm



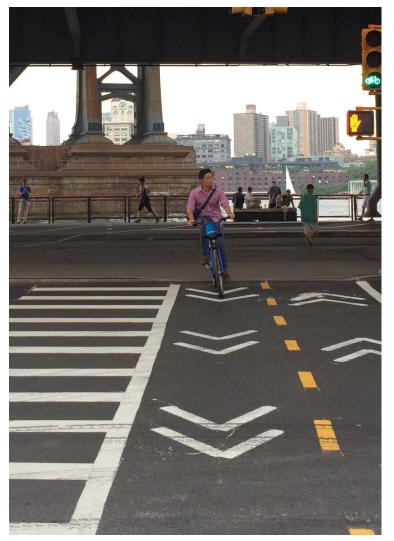




Preserve Views + Access









CATHERINE SLIP

MARKET SLIP

PIKE SLIP

RUTGERS SLIP





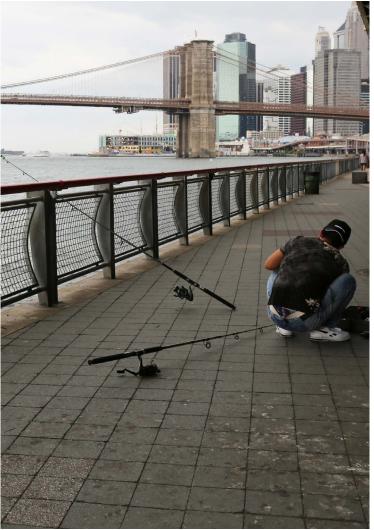




Distribute Program Equitably









FITNESS PARK

BASKETBALL COURTS

FISHING AREA

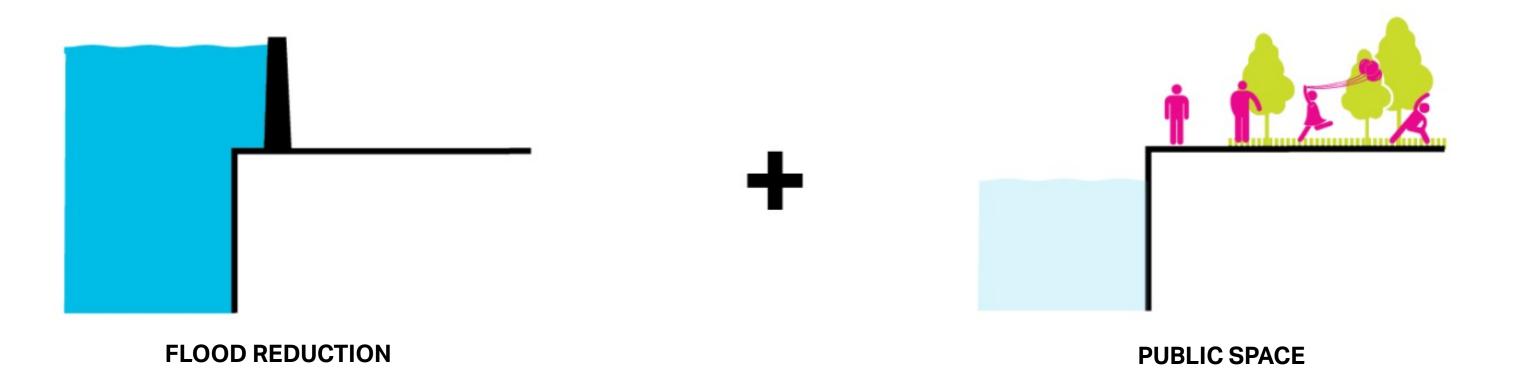
SEATING / OBSERVATION AREA







Integrate Infrastructure into Public Realm











Resilience Infrastructure



Raised Platform (Sea Level Rise)



Alignment - Location of Infrastructure



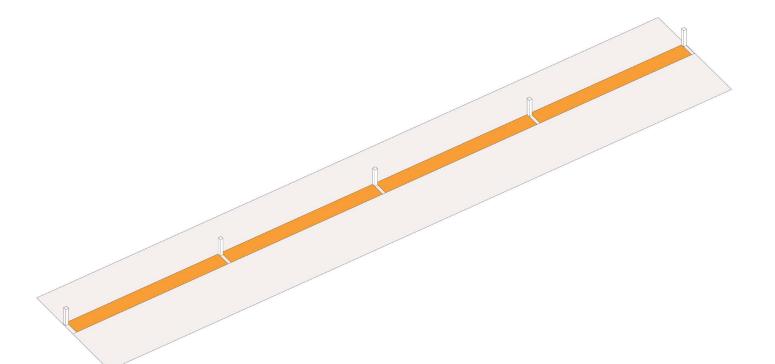




Infrastructure Toolkit

To preserve views and access along the waterfront, the project will utilize an infrastructure toolkit that combines fixed structures with deployable flood gates.

Flip Up Barrier: Sunny Day



Roller Gates & Fixed Structures: Sunny Day





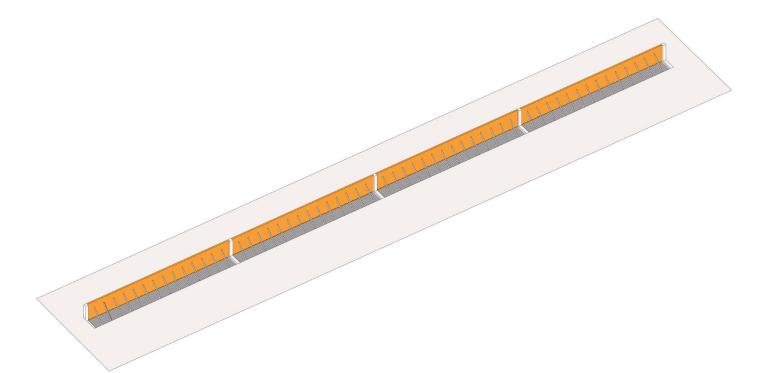




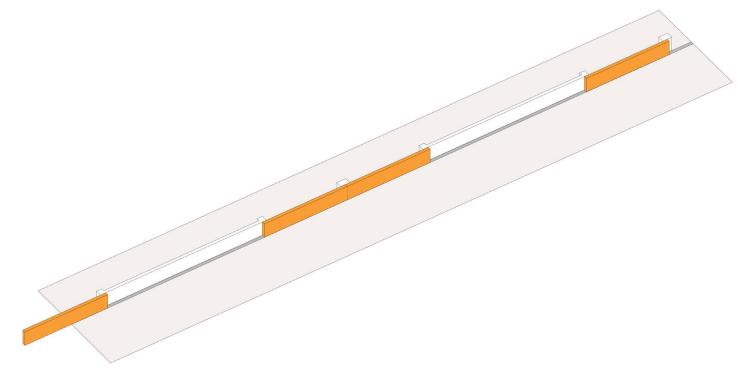
Infrastructure Toolkit

To preserve views and access along the waterfront, the project will utilize an infrastructure toolkit that combines fixed structures with deployable flood gates.

Flip Up Barrier: Deployed



Roller Gates & Fixed Structures: Deployed

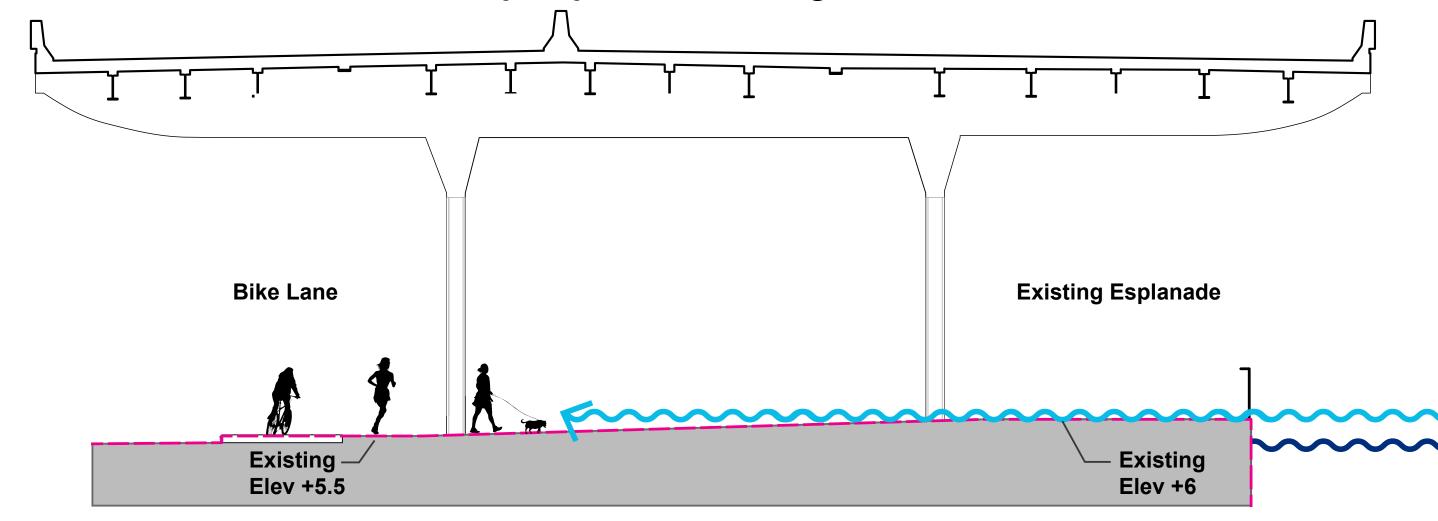








Raised Platform to Address Sunny Day Tidal Flooding from SLR







Future Sunny Day Tidal Flooding

Current sea level

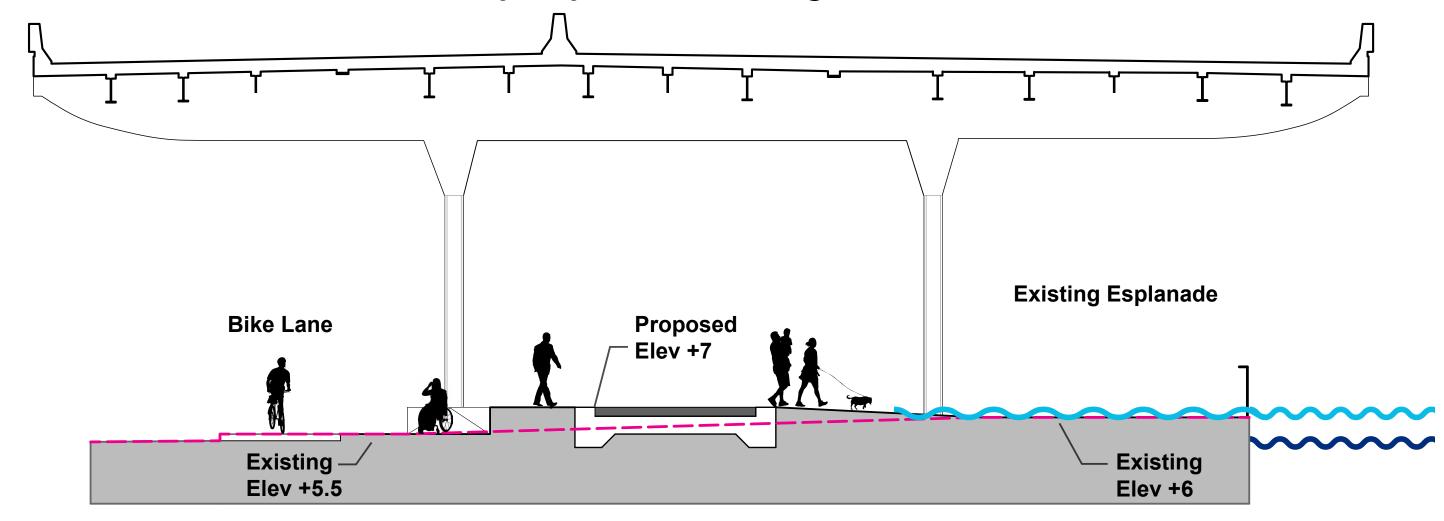


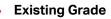






Raised Platform to Address Sunny Day Tidal Flooding from SLR







Future Sunny Day Tidal Flooding

Current sea level

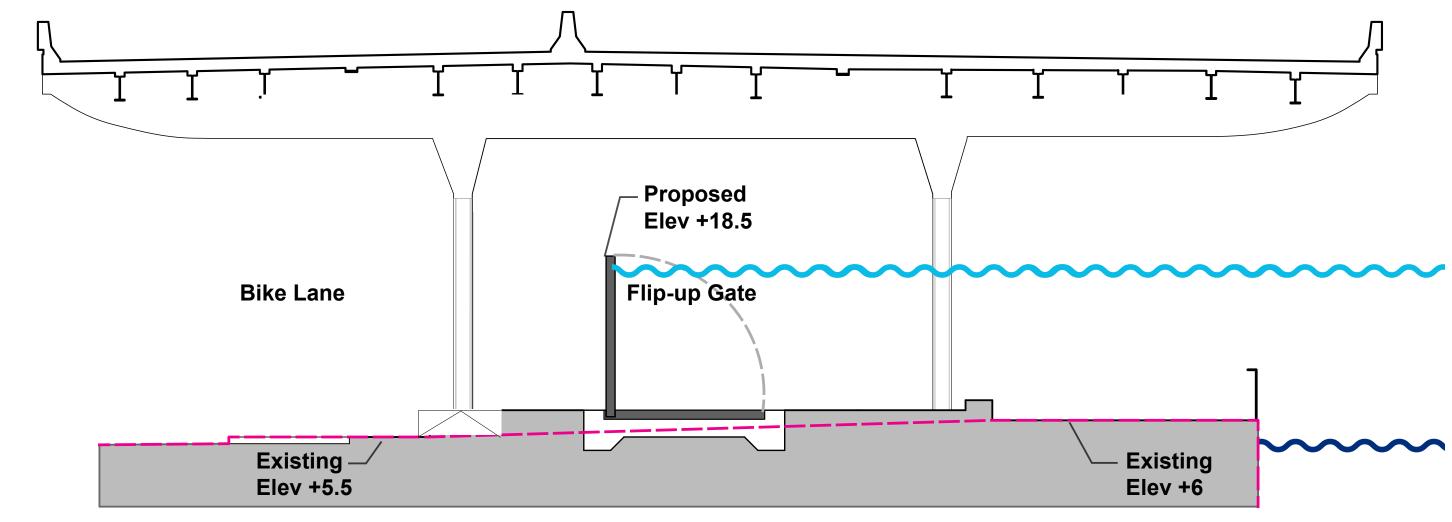








Deployed Flood Infrastructure







2050s 100-year Storm Surge

Current sea level





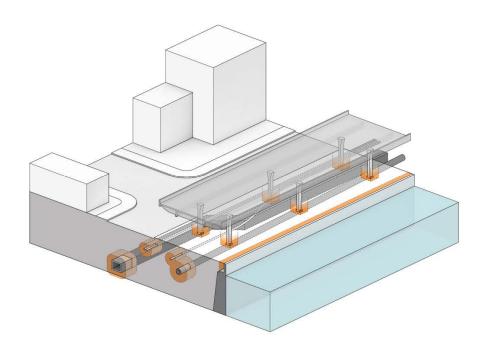




Flood Protection Alignment - Location of Infrastructure

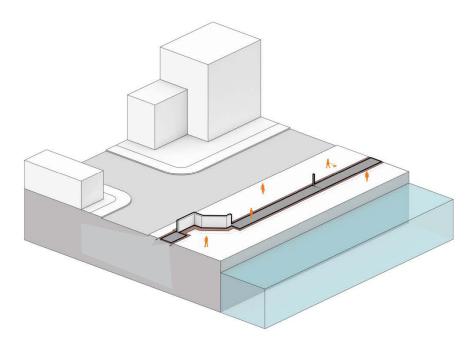
Site Constraints

Existing Infrastructure



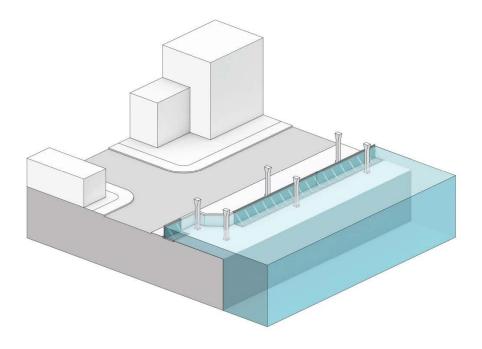
Line of Protection

Sunny Day



Line of Protection

Deployed









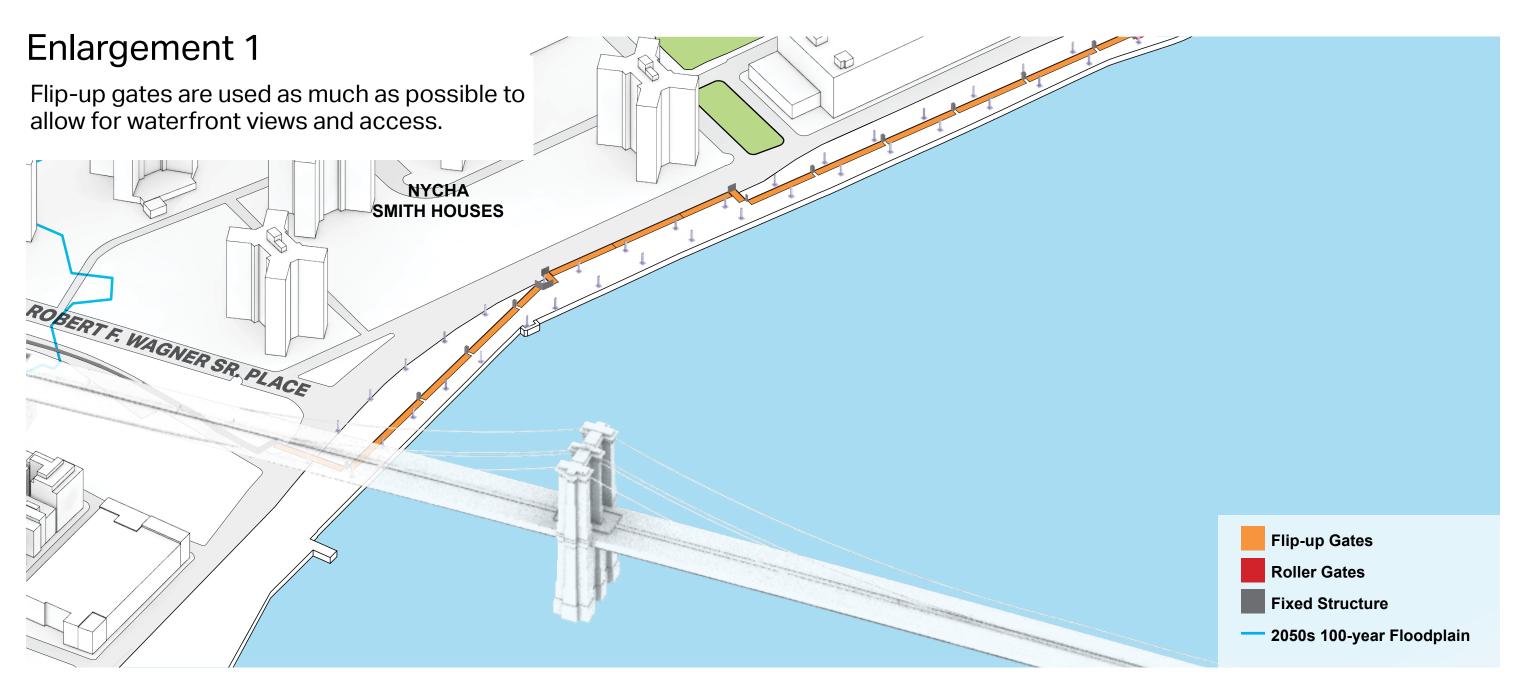
Flood Protection Alignment

EDC Mayor's Office of Resiliency



Coastal Resilience

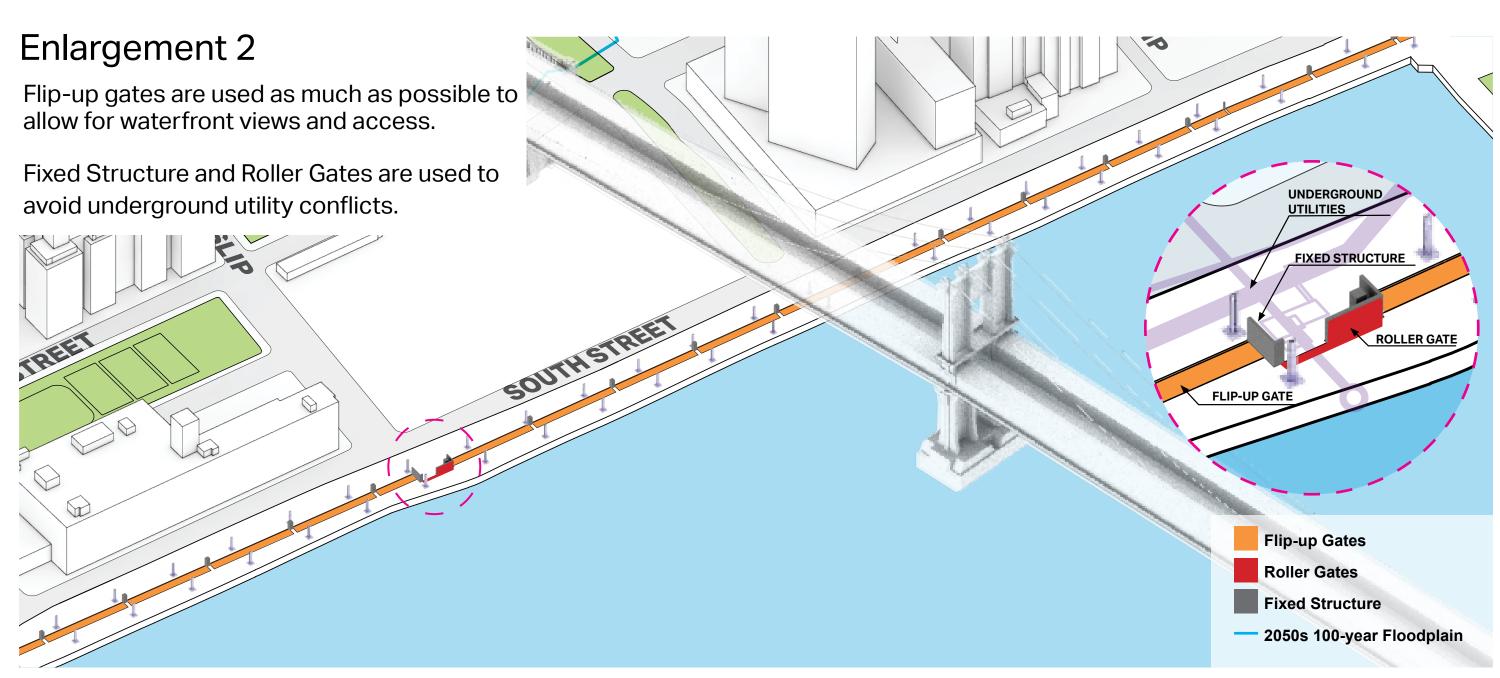








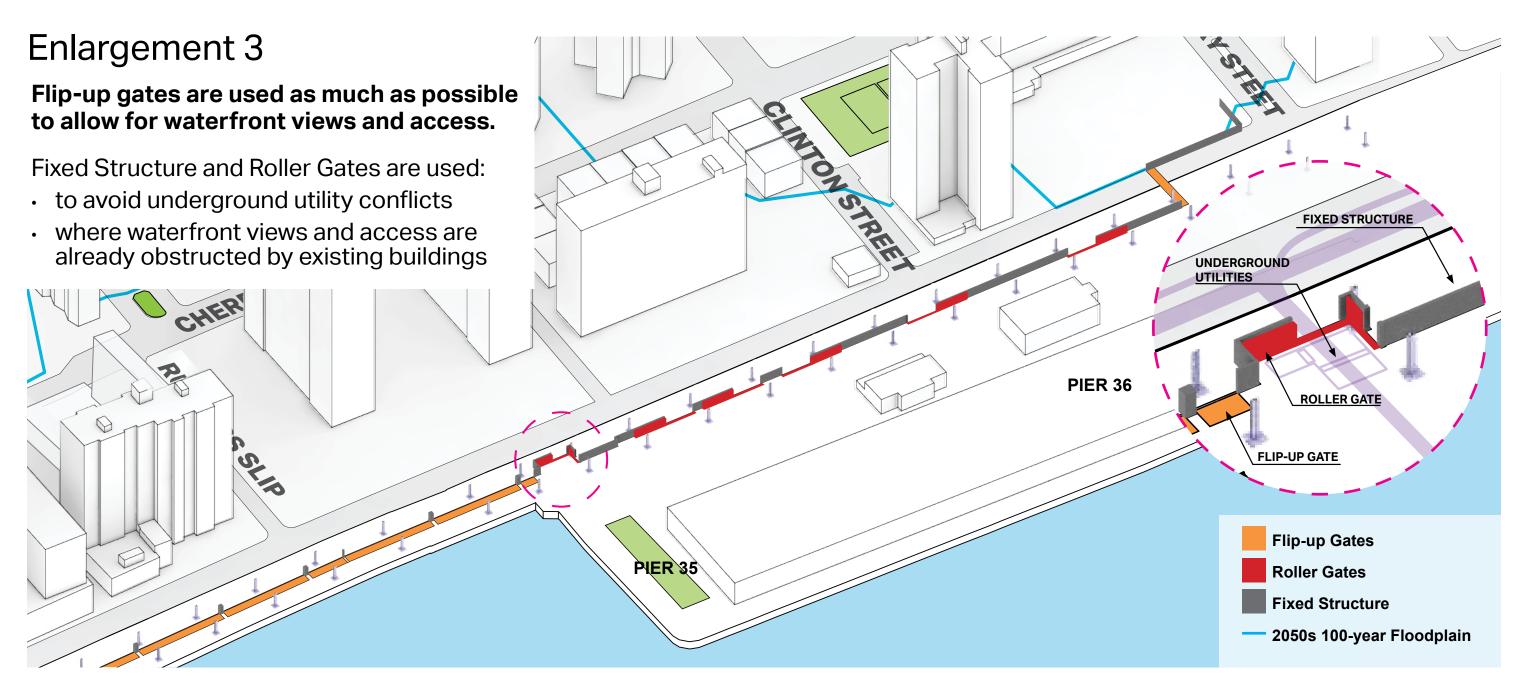










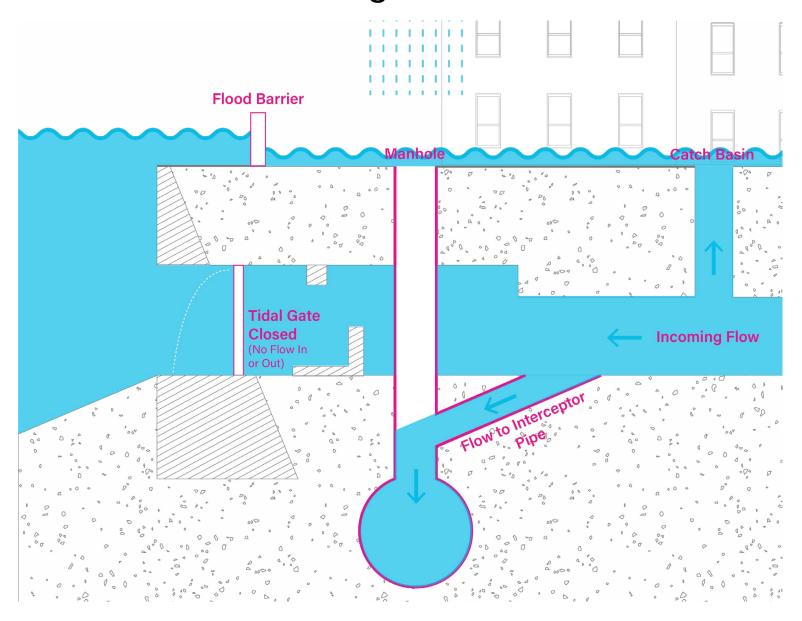








BMCR Without Drainage Intervention



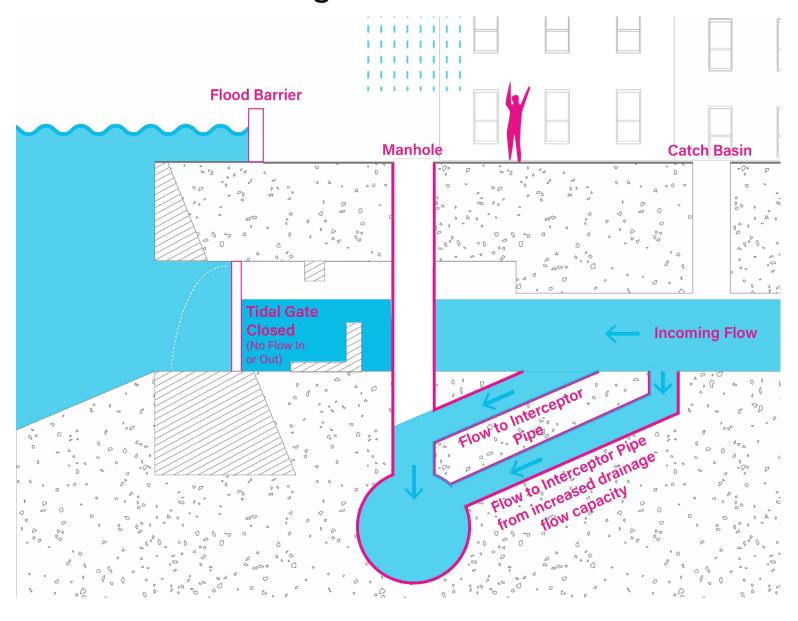
Storm surge and sea level rise decrease the system's ability to discharge, leading to street and basement flooding.







BMCR With Drainage Intervention



The proposed drainage system will allow additional flow capacity to the interceptor pipe, reducing the risk of street and basement flooding.







The BMCR and ESCR drainage systems will be connected so that stormwater flows to the Manhattan Pump Station and gets pumped to and treated at the Newtown Creek Wastewater Treatment Plant.

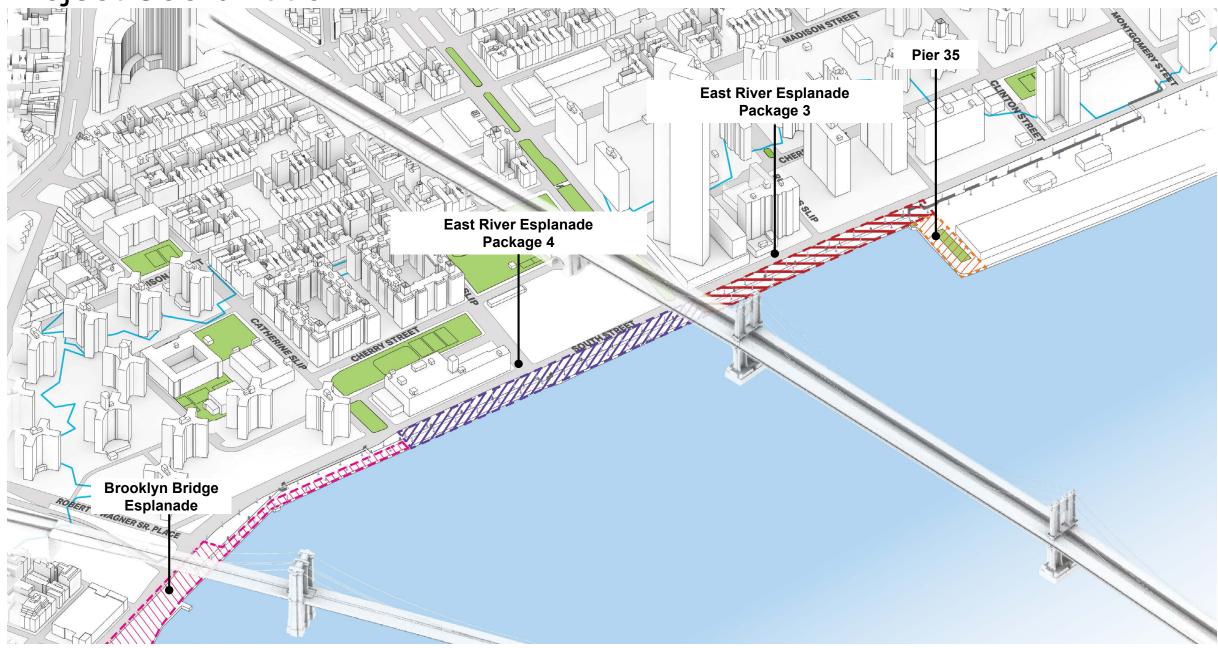








Project Coordination

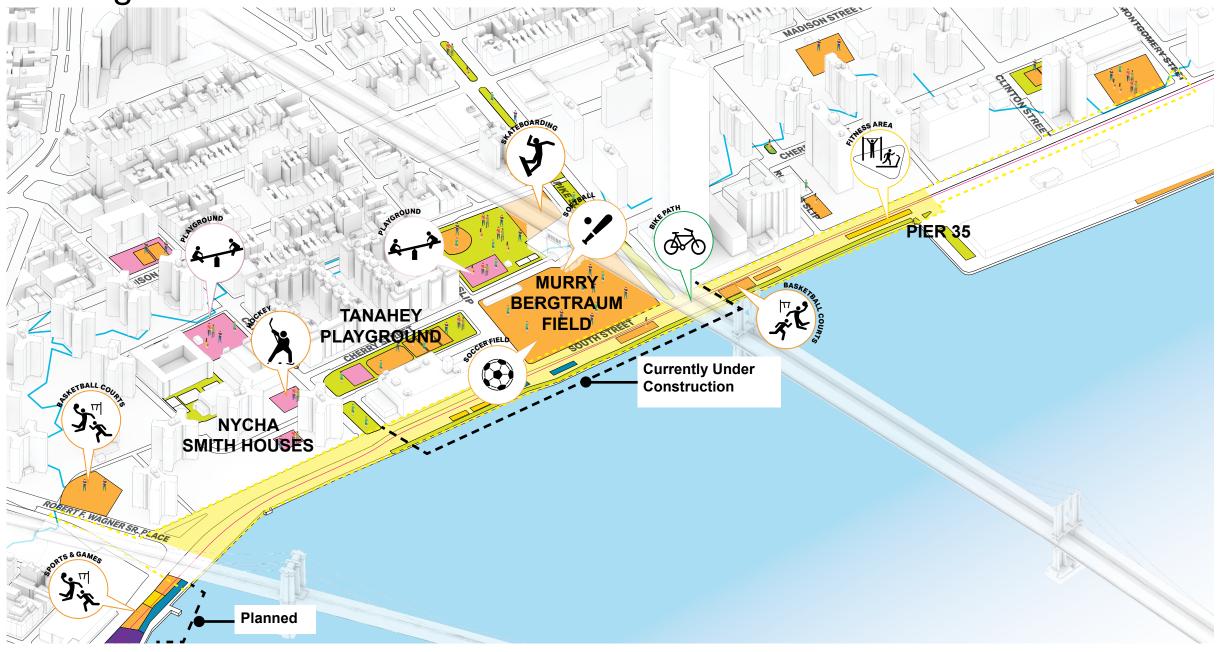








Existing and Planned Public Amenities









2016-2018 Community Input





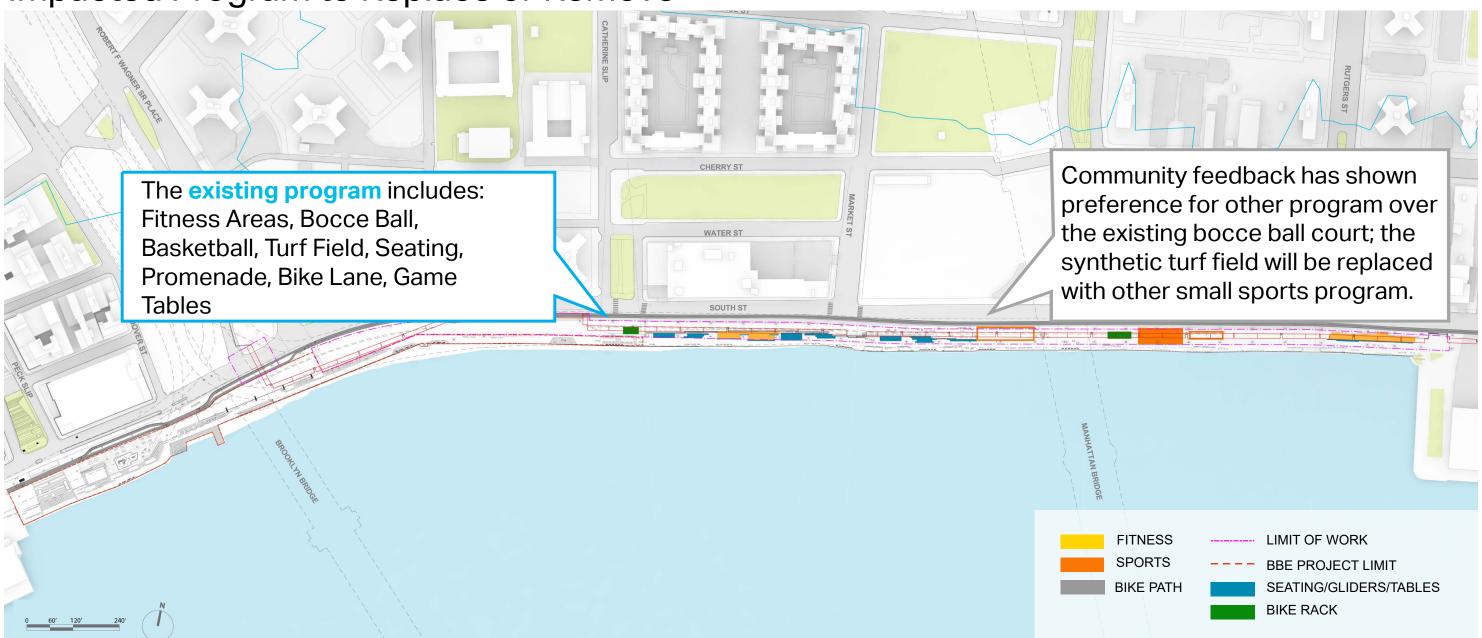








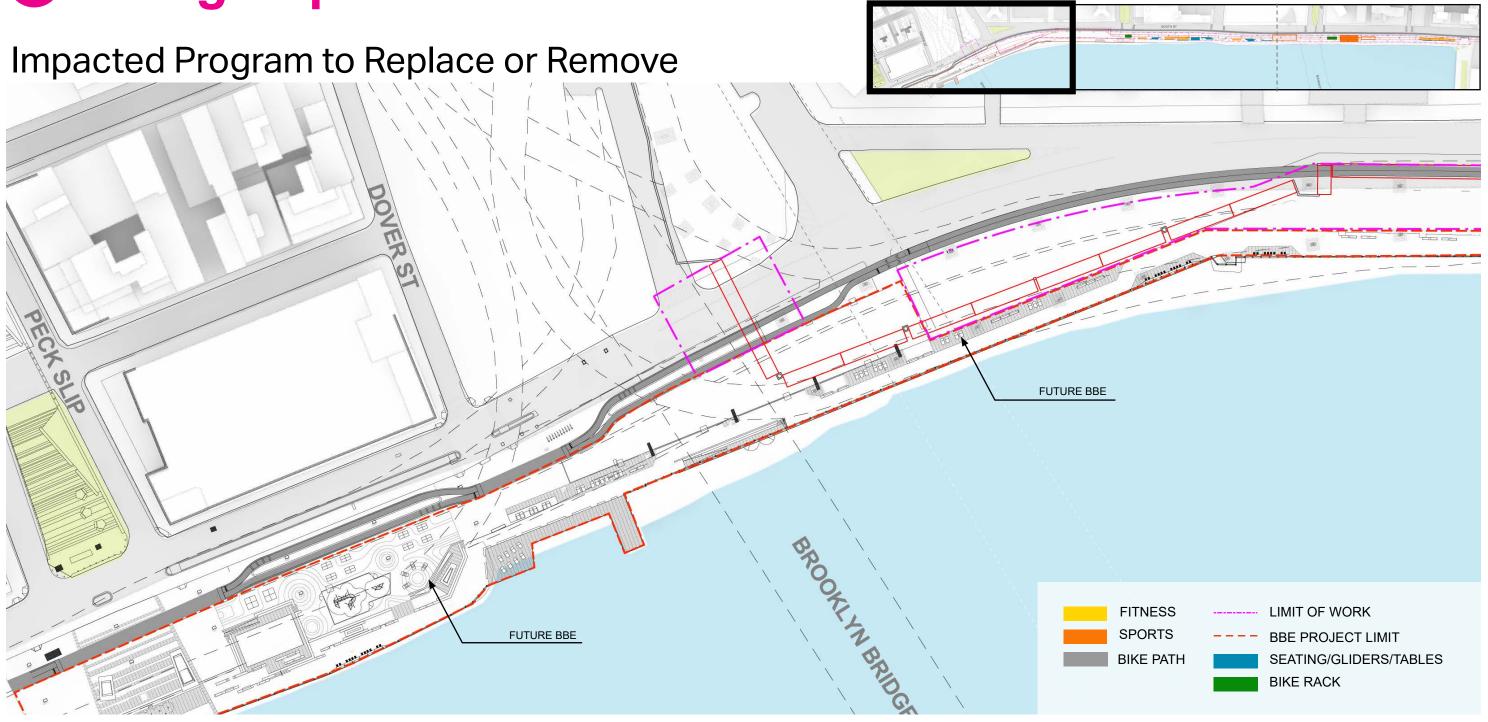
Impacted Program to Replace or Remove







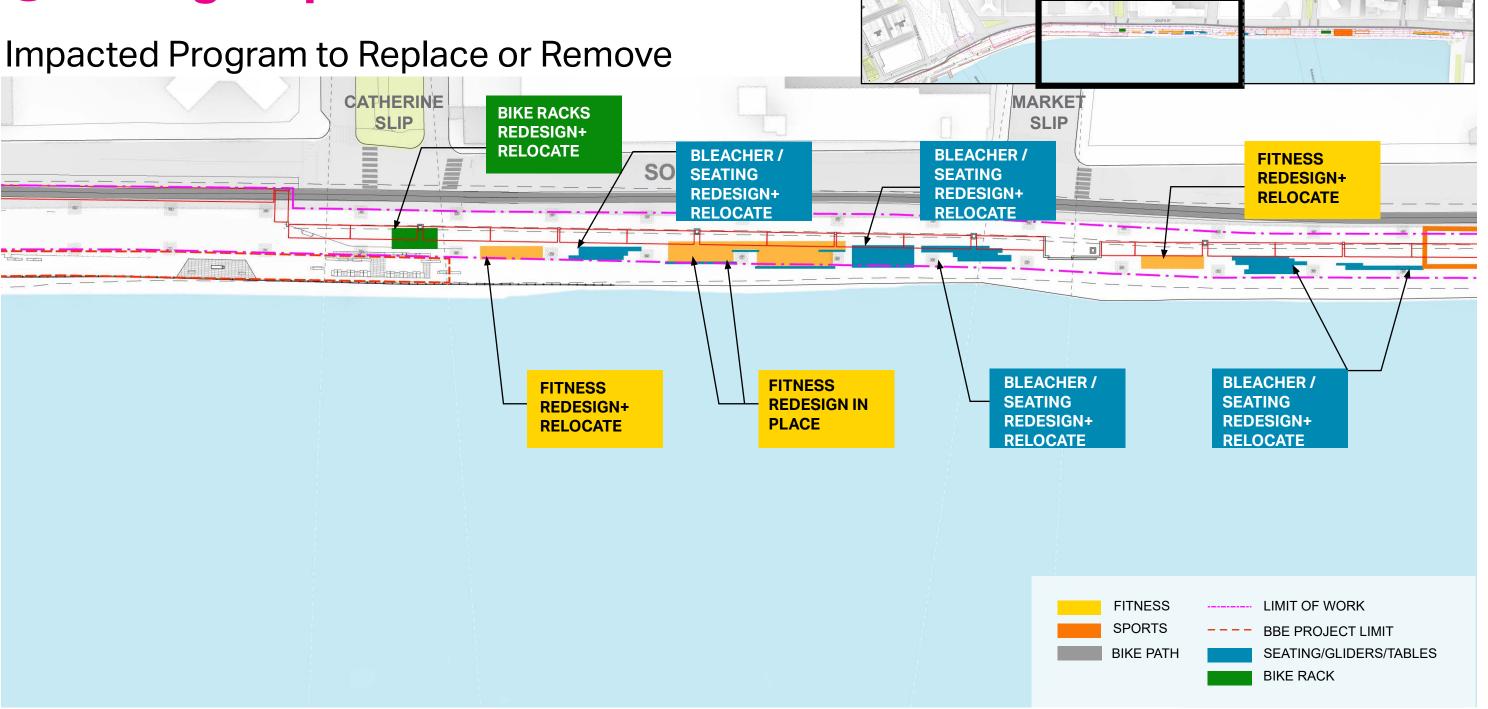








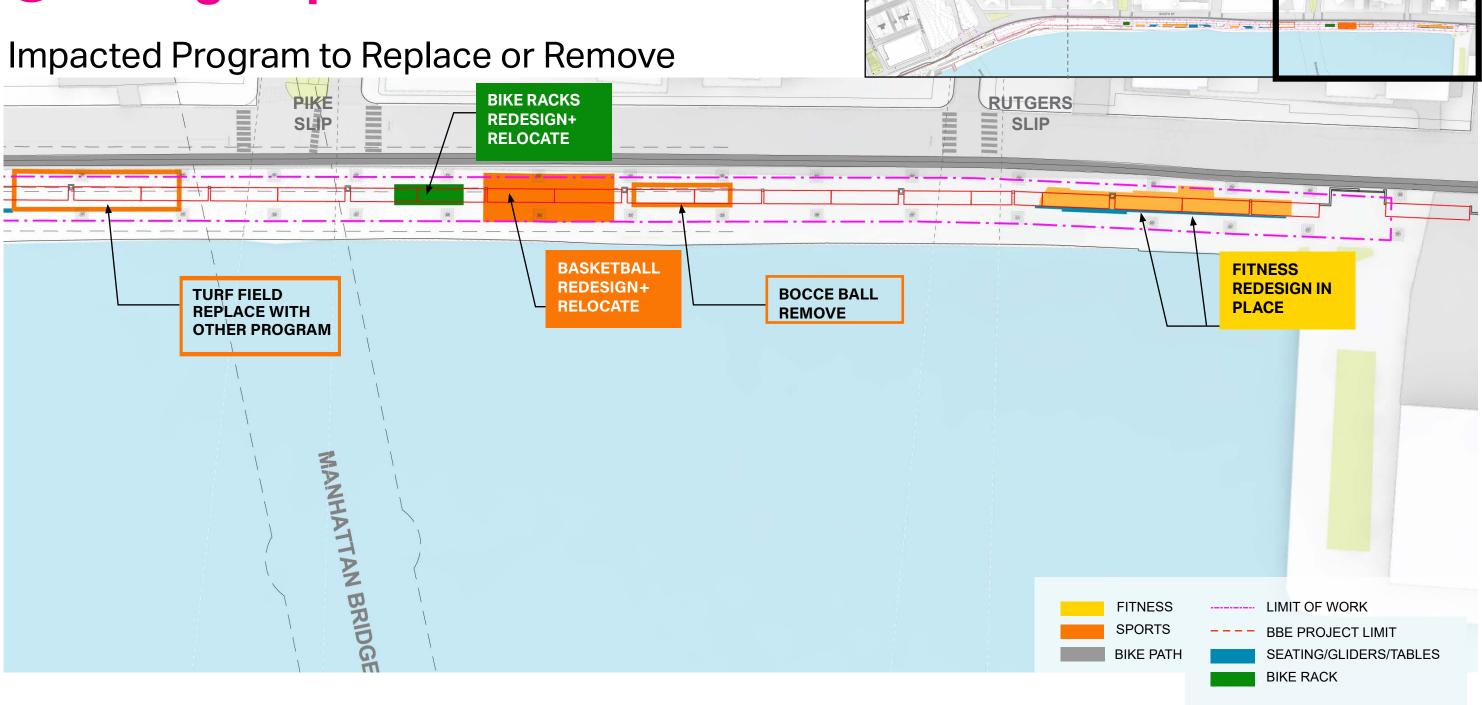










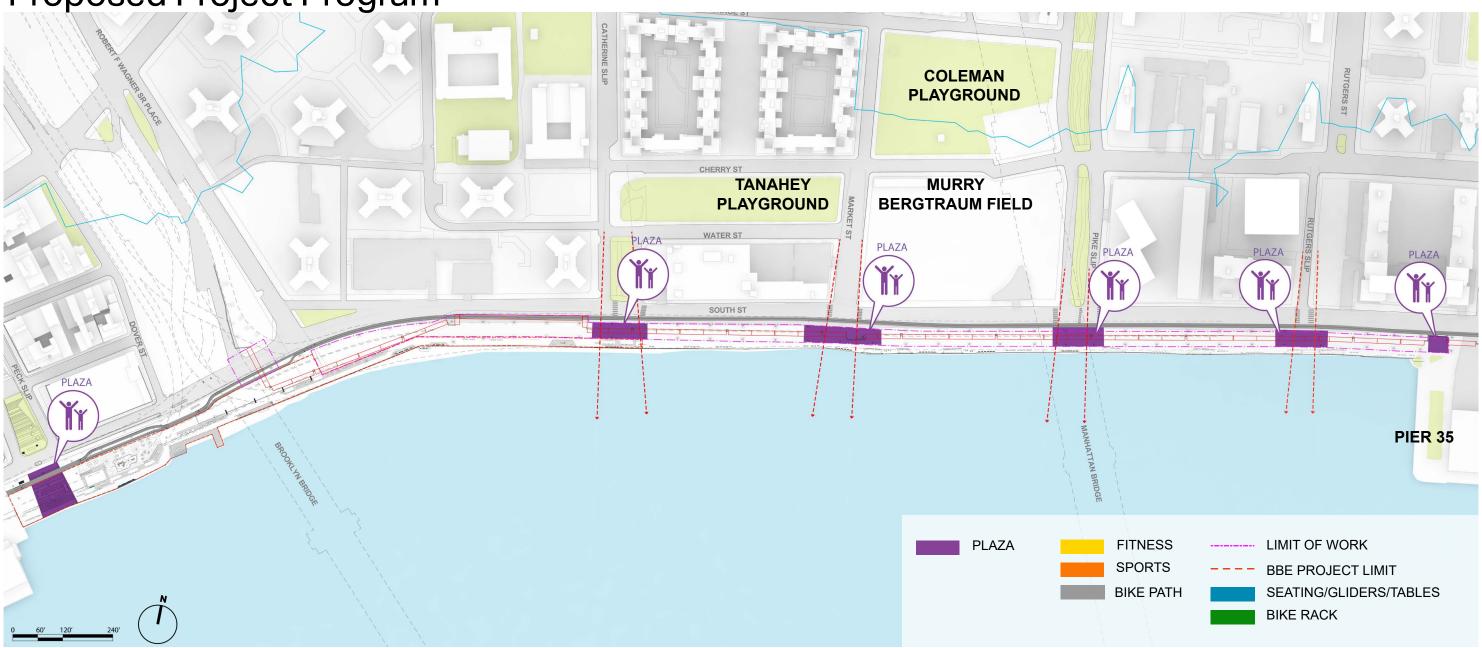








Proposed Project Program









Proposed Project Program









Proposed Program









4 Open House

Please join us in activities to learn about the City's project to prepare the Two Bridges neighborhood for climate change.







4 Open House

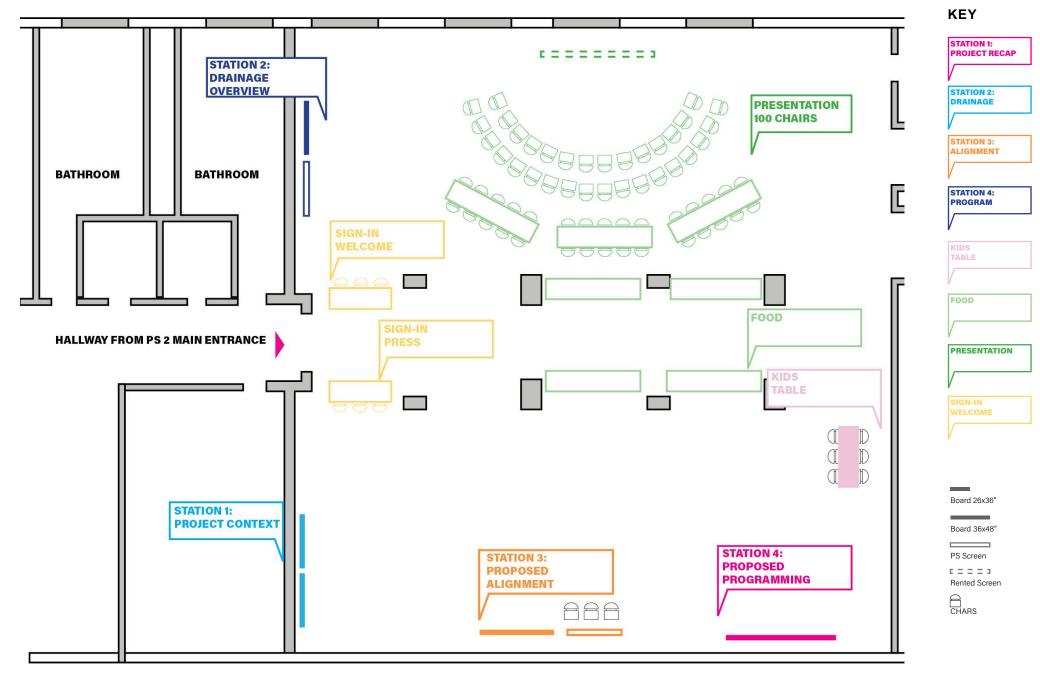
Station 1: Project Context

Station 2: Drainage System Overview Station 3: Proposed Alignment Station 4: Proposed Programming





Open House







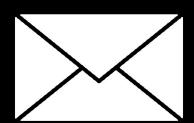


STAY IN TOUCH:

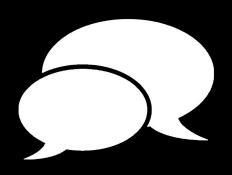




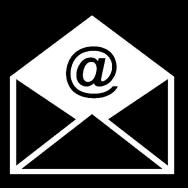








In Person



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