

RESILIENT FORT POINT CHANNEL NEAR-TERM PROJECT

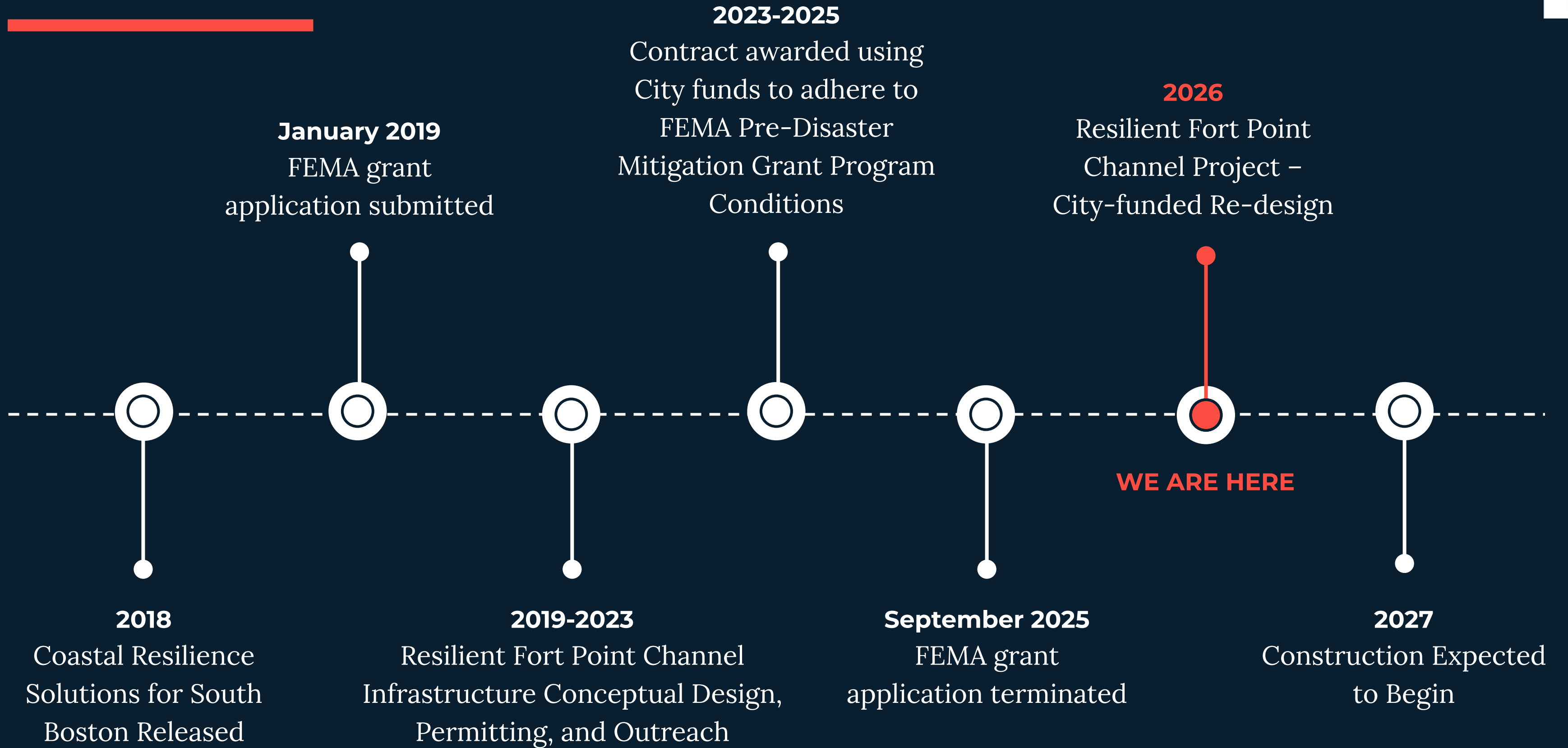
June 2026



Planning Department

CITY of **BOSTON**

PROJECT TIMELINE



EXISTING FLOOD VULNERABILITY

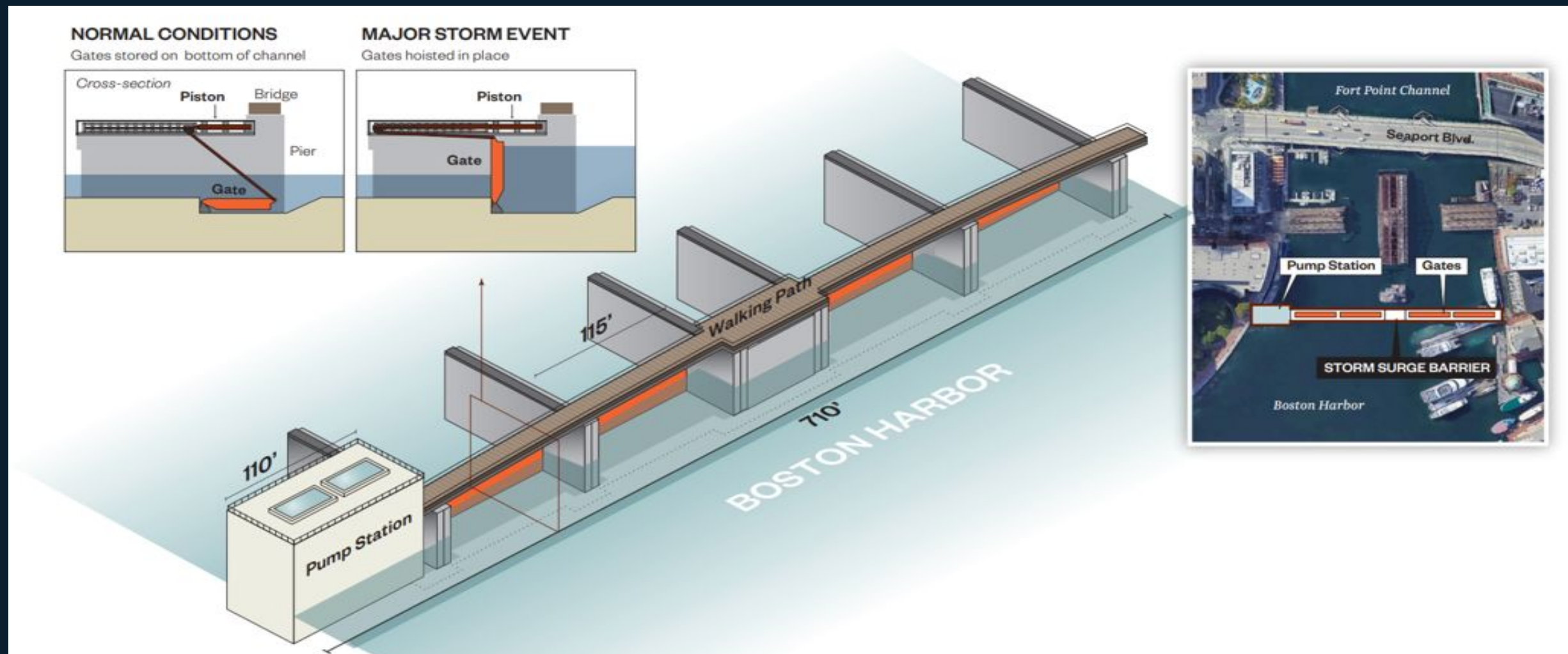


Flooding during intense storm conditions

STORM SURGE BARRIER CONCEPT



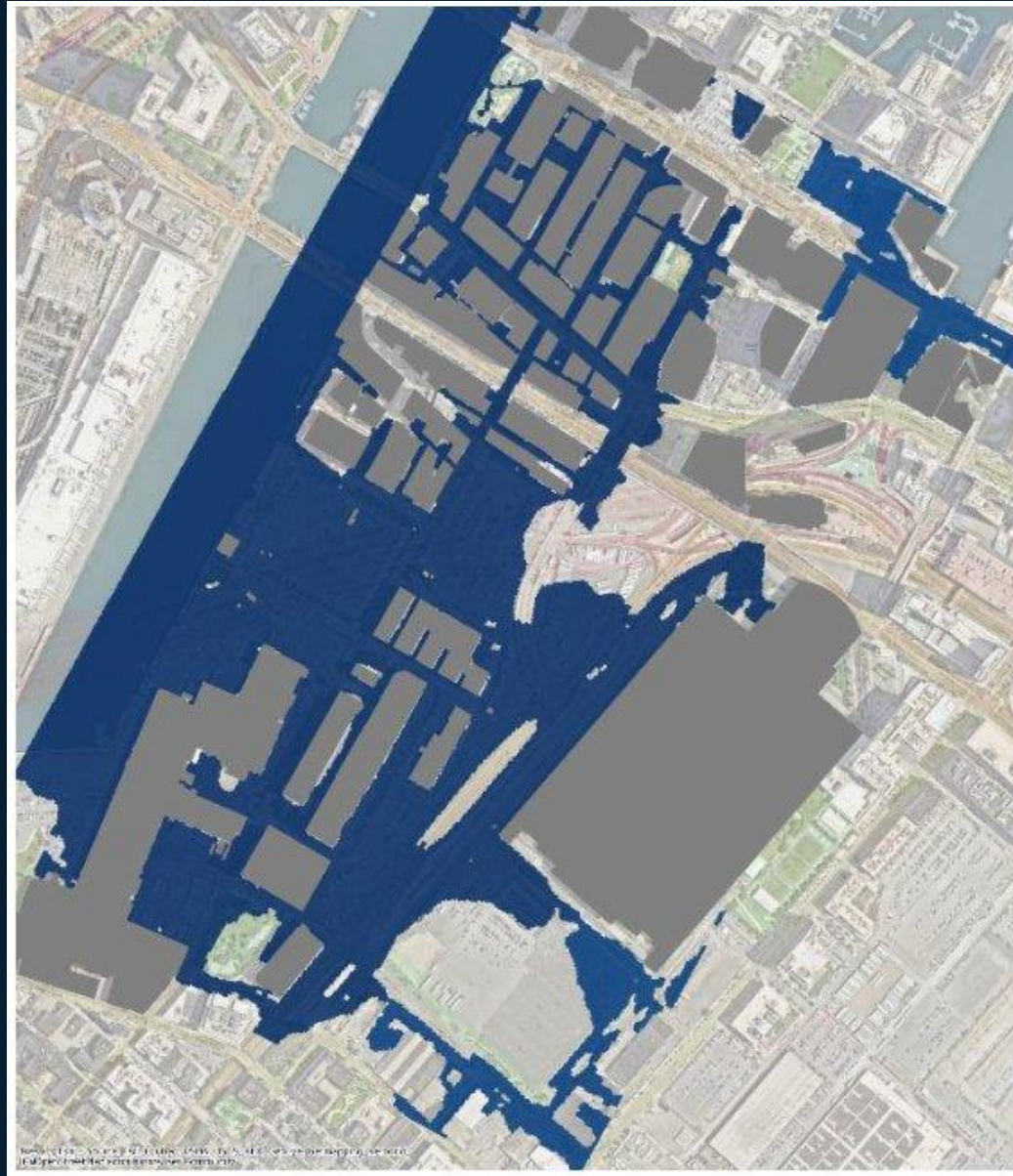
U.S. Army Corps of Engineers



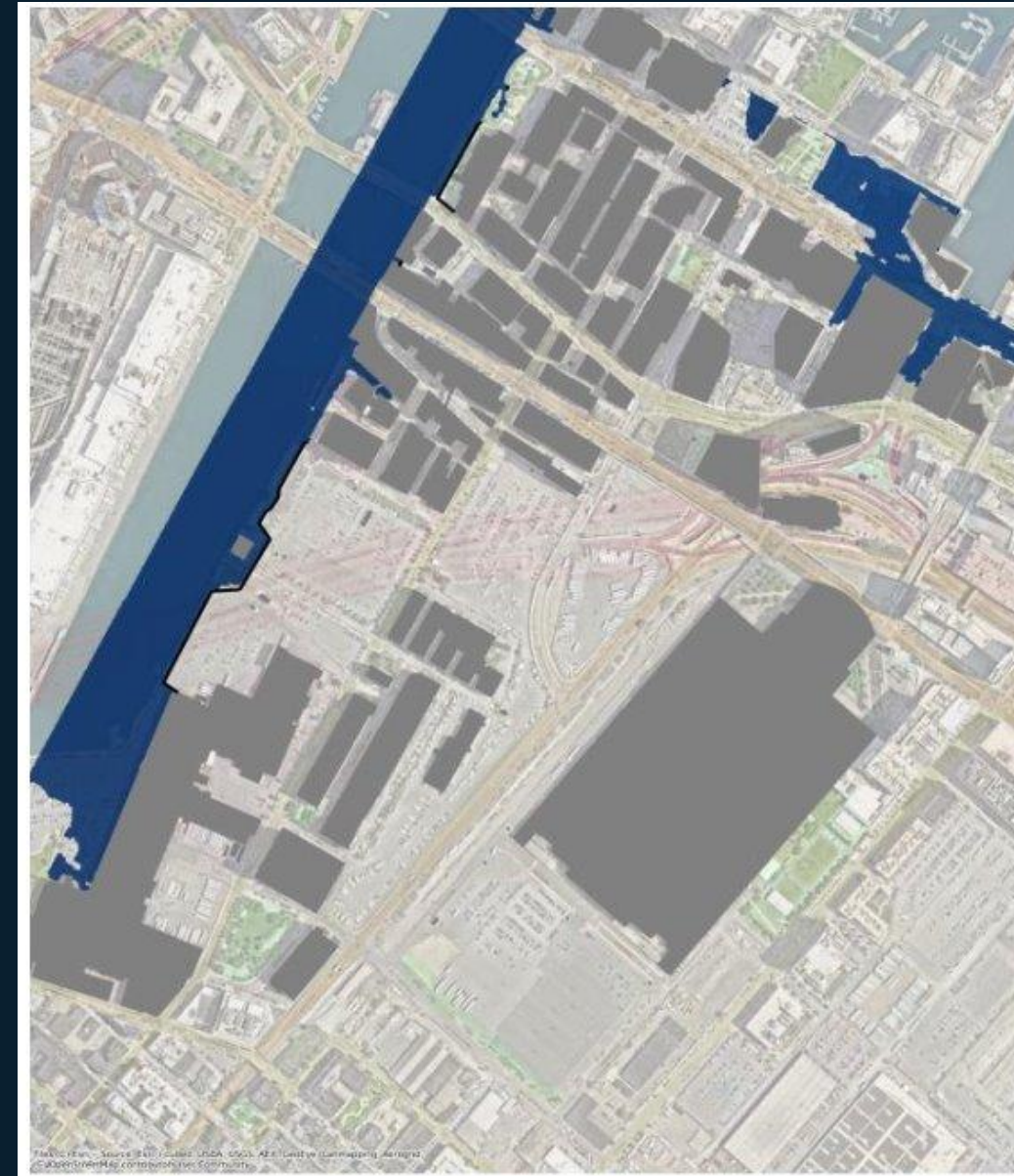
*Fox Point Hurricane Barrier,
Providence, RI
Image source: USACE, New England
District*

- The proposed near-term project addresses the **most imminent flood risk**
- **Future projects** will inform the need to increase elevation along Fort Point Channel

FORT POINT CHANNEL PROJECT EFFECTIVENESS



Existing flooding during **2030 100-year** storm conditions



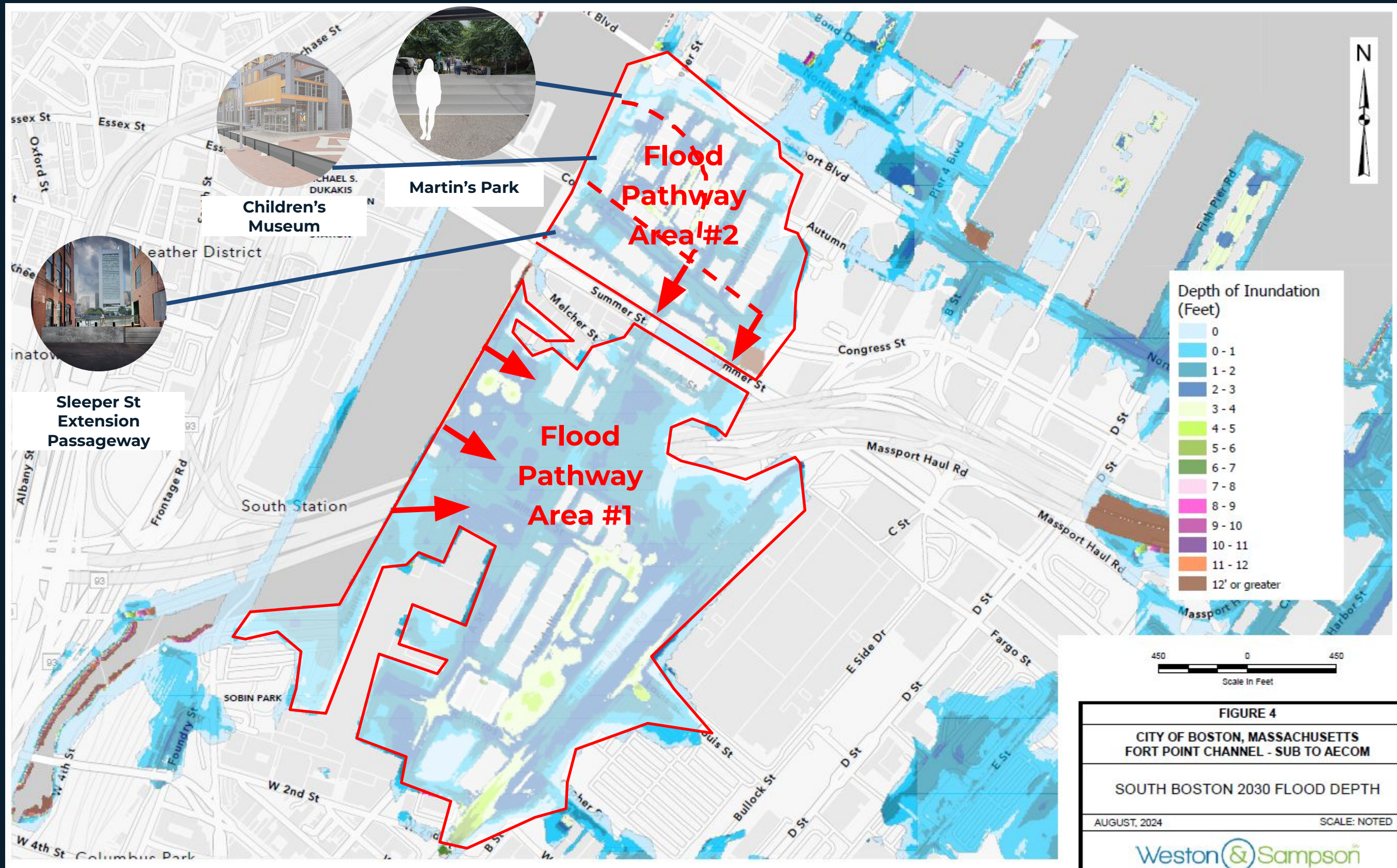
Flood extent during a 2030 100-year storm in existing conditions **and with the proposed flood barriers in place**

	2030s	2050s	2070s
Original 2019 Project Elevations (1%AEP)	11 feet NAVD 88	12.1 feet NAVD 88	13.3 feet NAVD 88

2026 Project DFE = 11.7

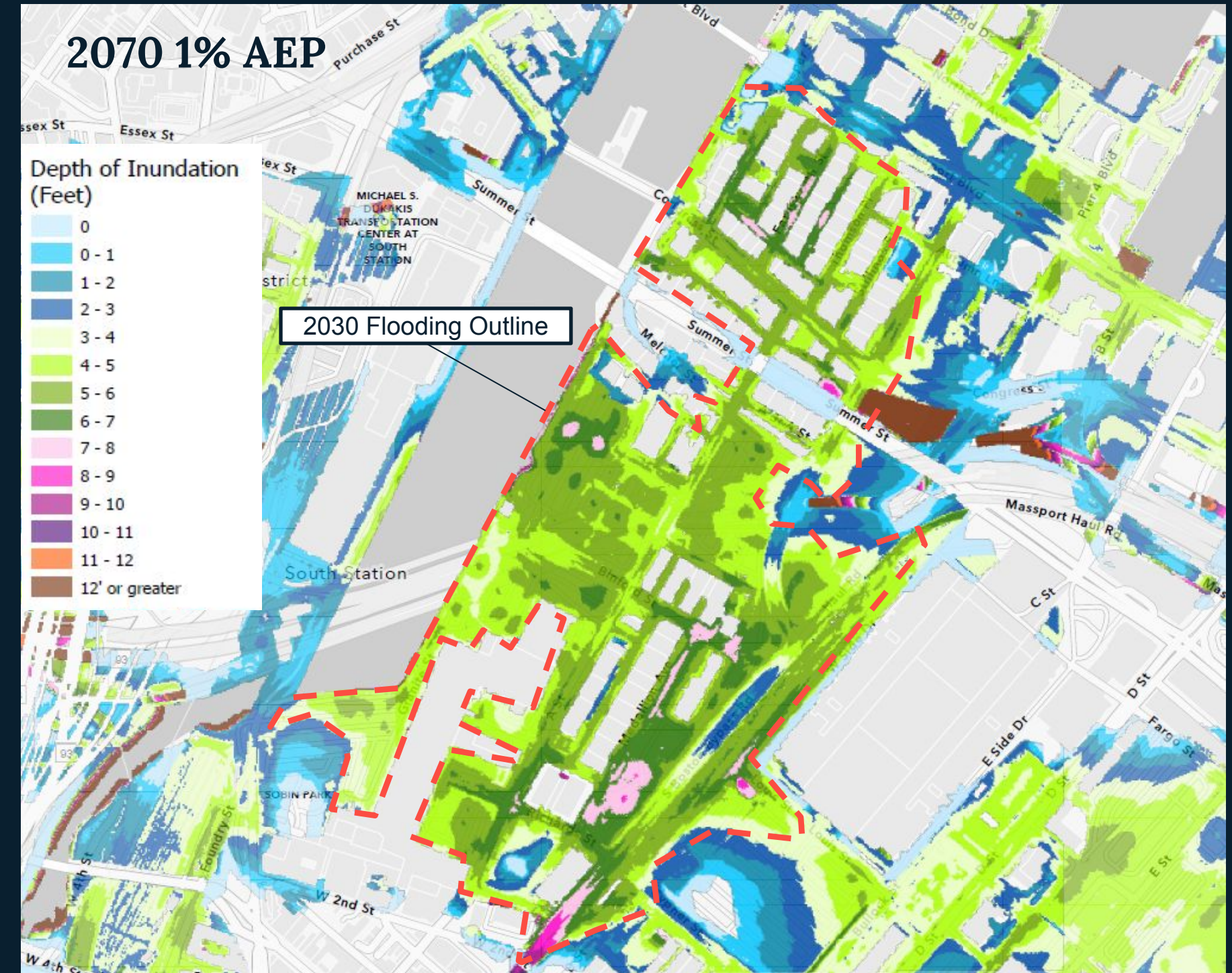
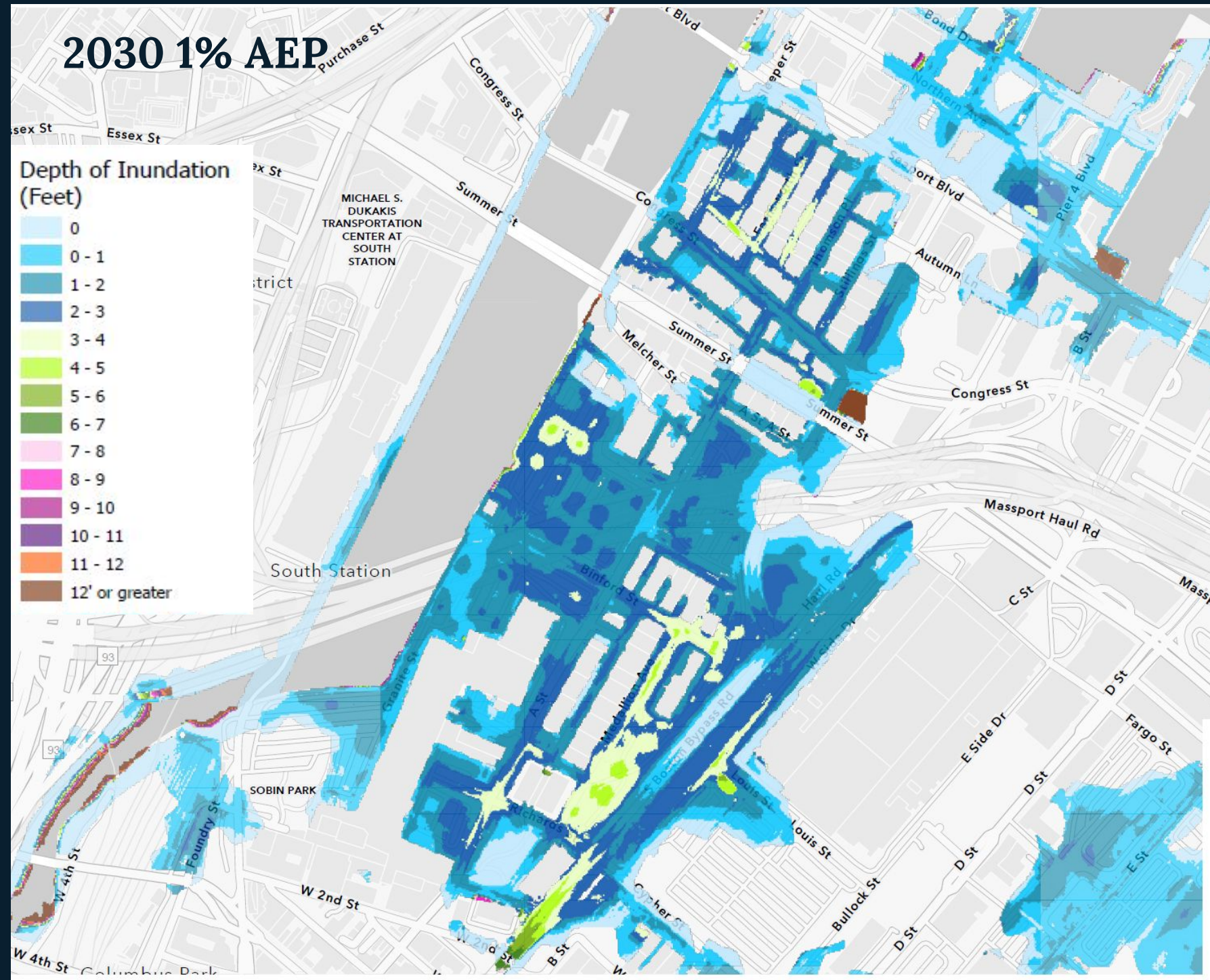
	2030s	2050s	2070s
Relative Sea Level Rise	-	12 inches	31 inches
1% Annual Chance Flood Elevation at Example Location	10.7 feet NAVD 88	11.7 feet NAVD 88	13.3 feet NAVD 88
Freeboard	1	0	n/a
Equivalent Storm Frequency (direct flow)	500-year (0.2% AEP)	33-year (3% AEP)	3-year (33% AEP)

COASTAL FLOOD PATHWAYS



- **Flood Pathway #1**
 - Addressed by Fort Point Channel deployables and wall
- **Flood Pathway #2**
 - Addressed by deployables at Sleeper St, Children's Museum, and Martin's Park

COASTAL FLOODING SCENARIOS

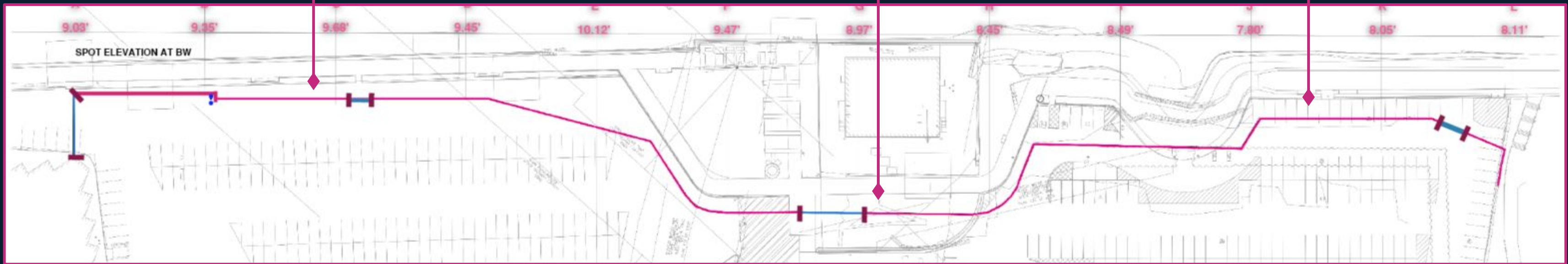
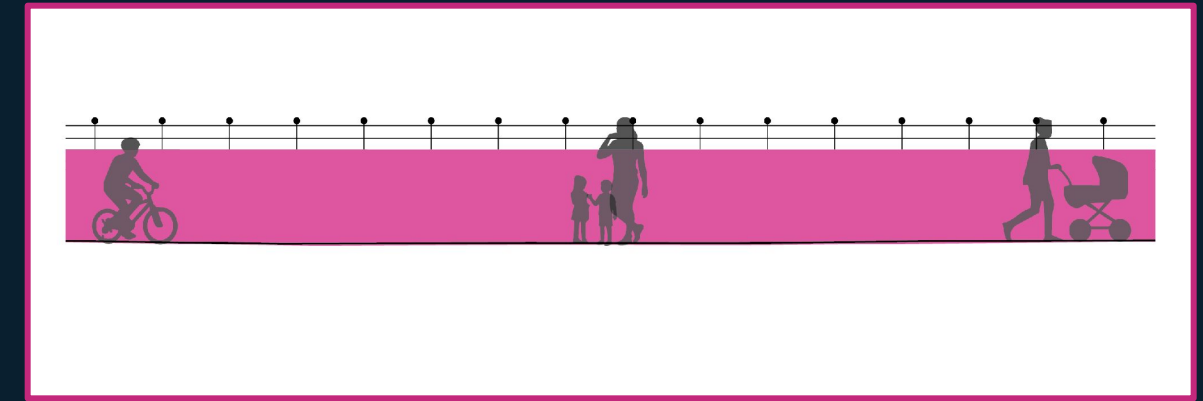
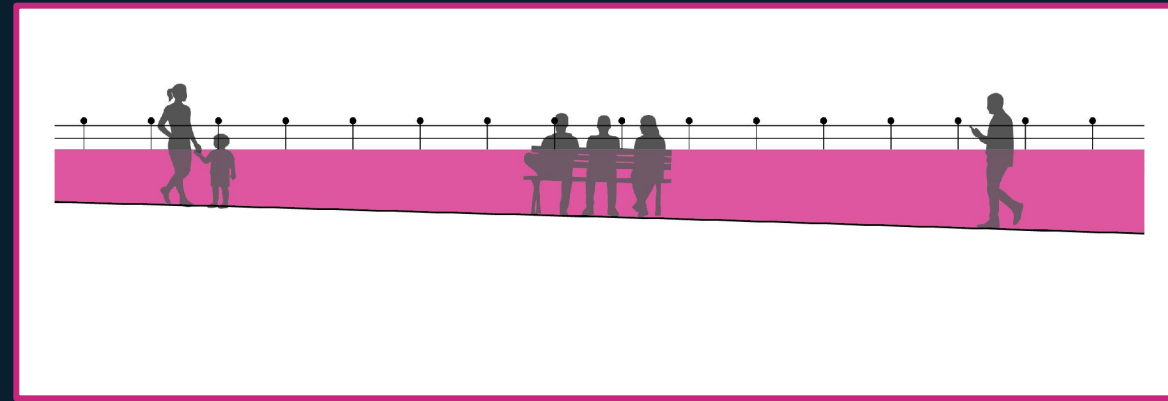
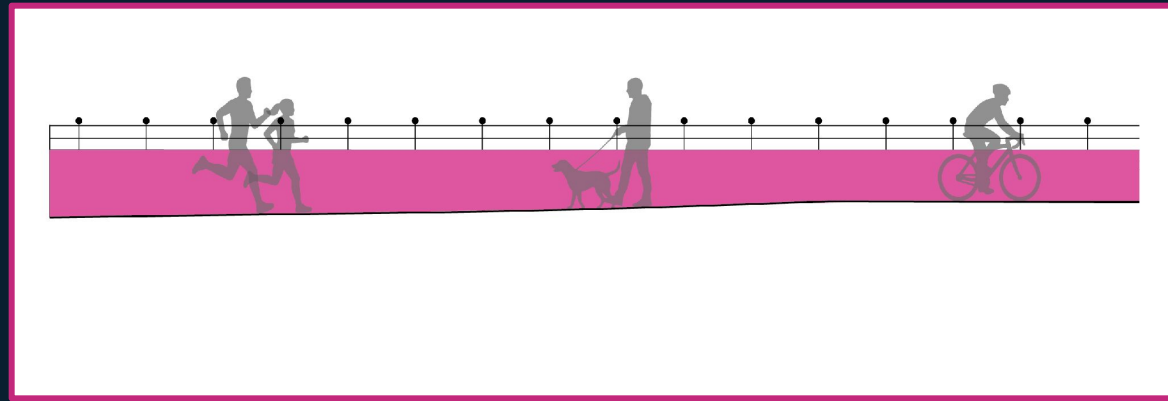


COMPONENTS OF THE PROJECT DESIGN

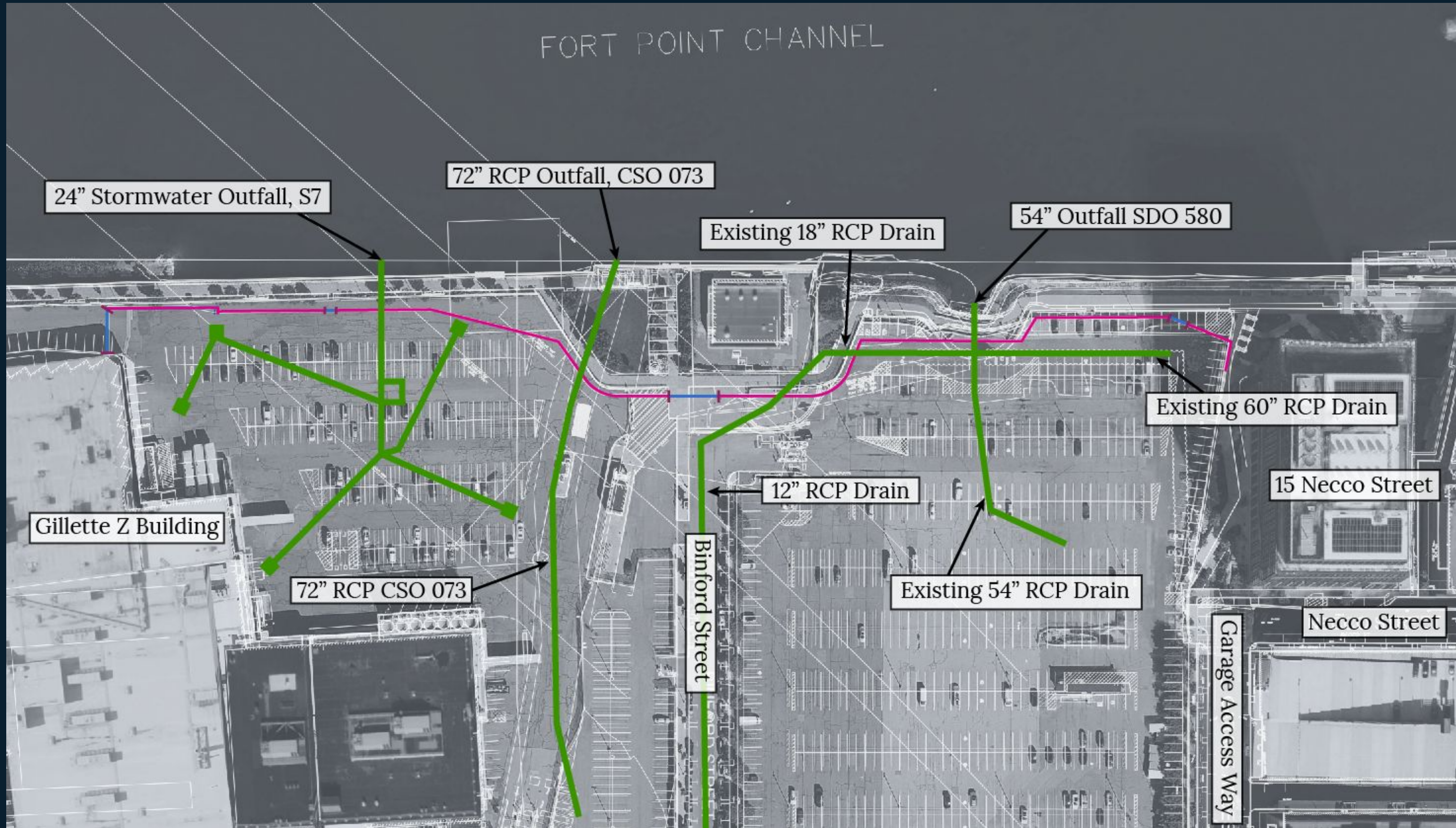


- **Coastal floodwall system**
 - 15 Necco St. To the Gillette Z Building
 - Majority is concrete barrier
 - Deployable barriers at Binford Street, Z Building, South of Binford Park, and near 15 Necco
- **Design elevation** is 11.7 ft NAVD88
 - 100-year event water surface (Year 2030) + 12"
 - Barrier height between 1.5' and 4'
- **Minimize disturbance** to Harborwalk, Harborwalk access, and existing parking lots
- **City's barrier removed** one section/parcel at a time after construction of higher-level resilience measures
- Funded with **City dollars**
 - Permanent infrastructure with a plan for replacement

FLOOD BARRIER HEIGHT ABOVE GROUND

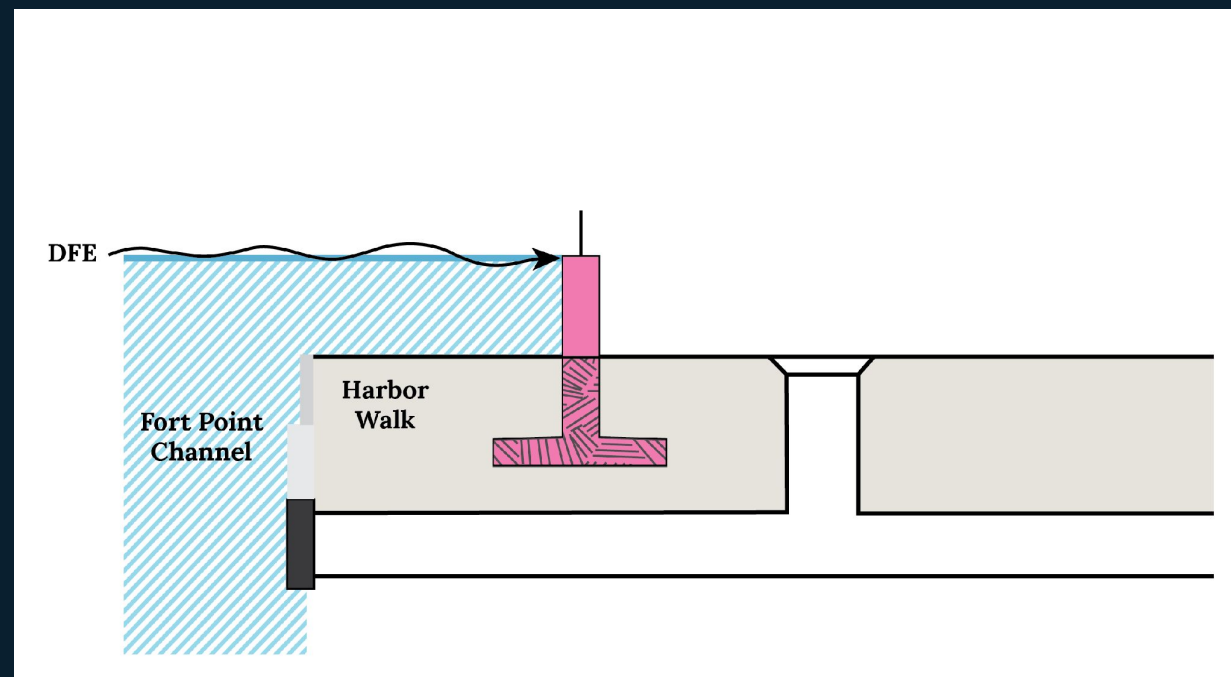


STORMWATER SYSTEM MAP



DRAINAGE CONSIDERATIONS

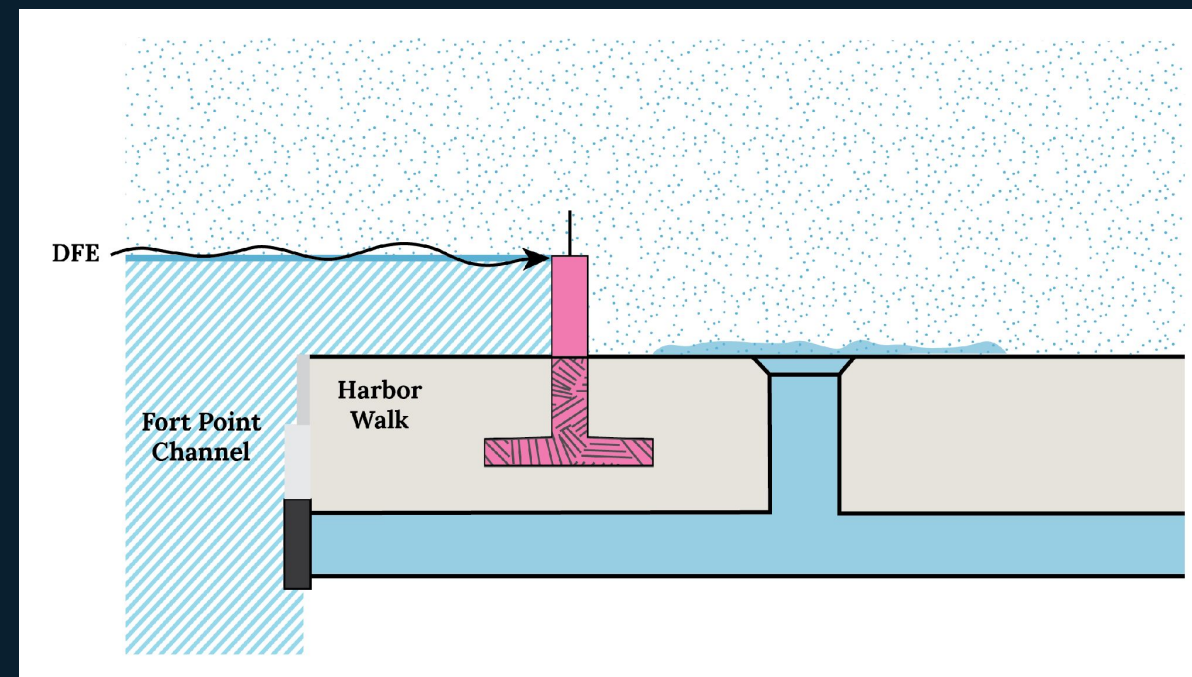
High tide with storm surge, no precipitation



FLOOD RESILIENCY

High water in Fort Point Channel does not advance past barriers

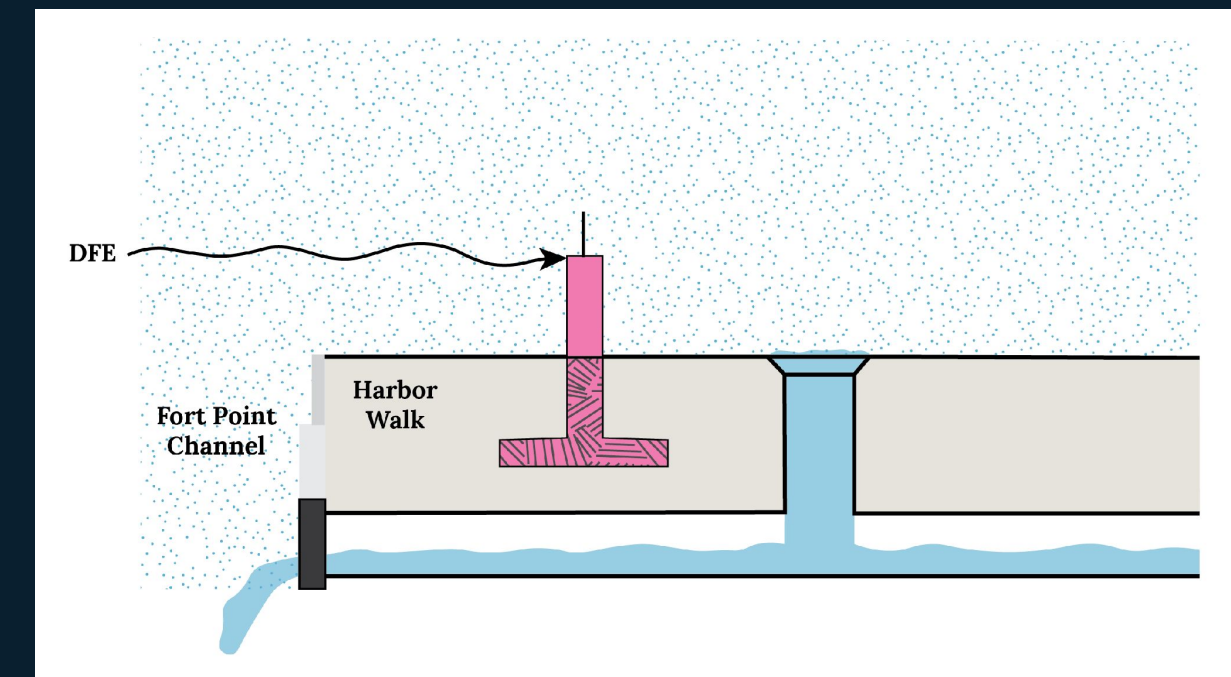
High tide with storm surge, with precipitation



LOCAL PONDING

Net reduction in flooding though water may accumulate behind barrier during high water channel

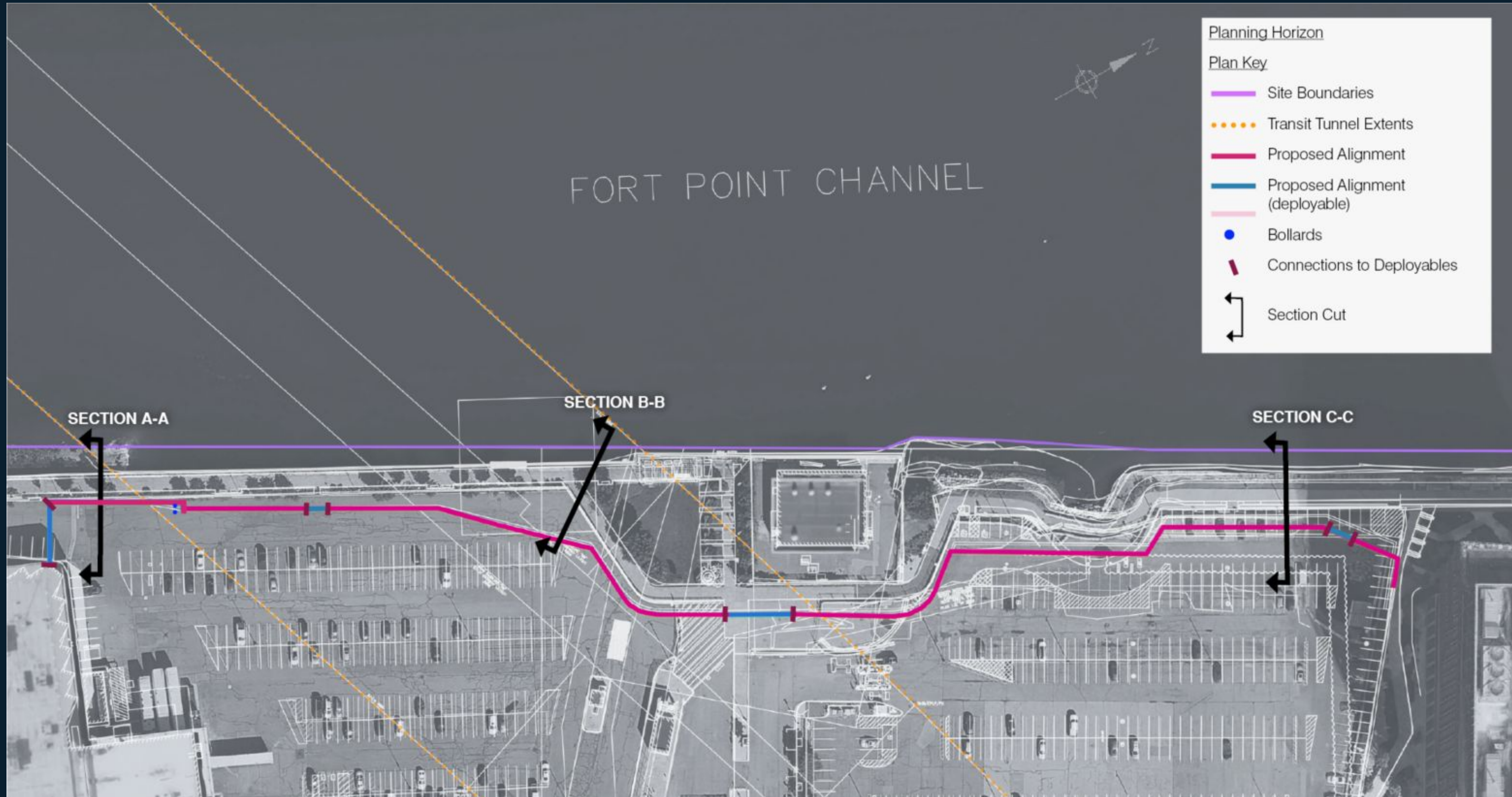
Low tide, with precipitation and full drainage



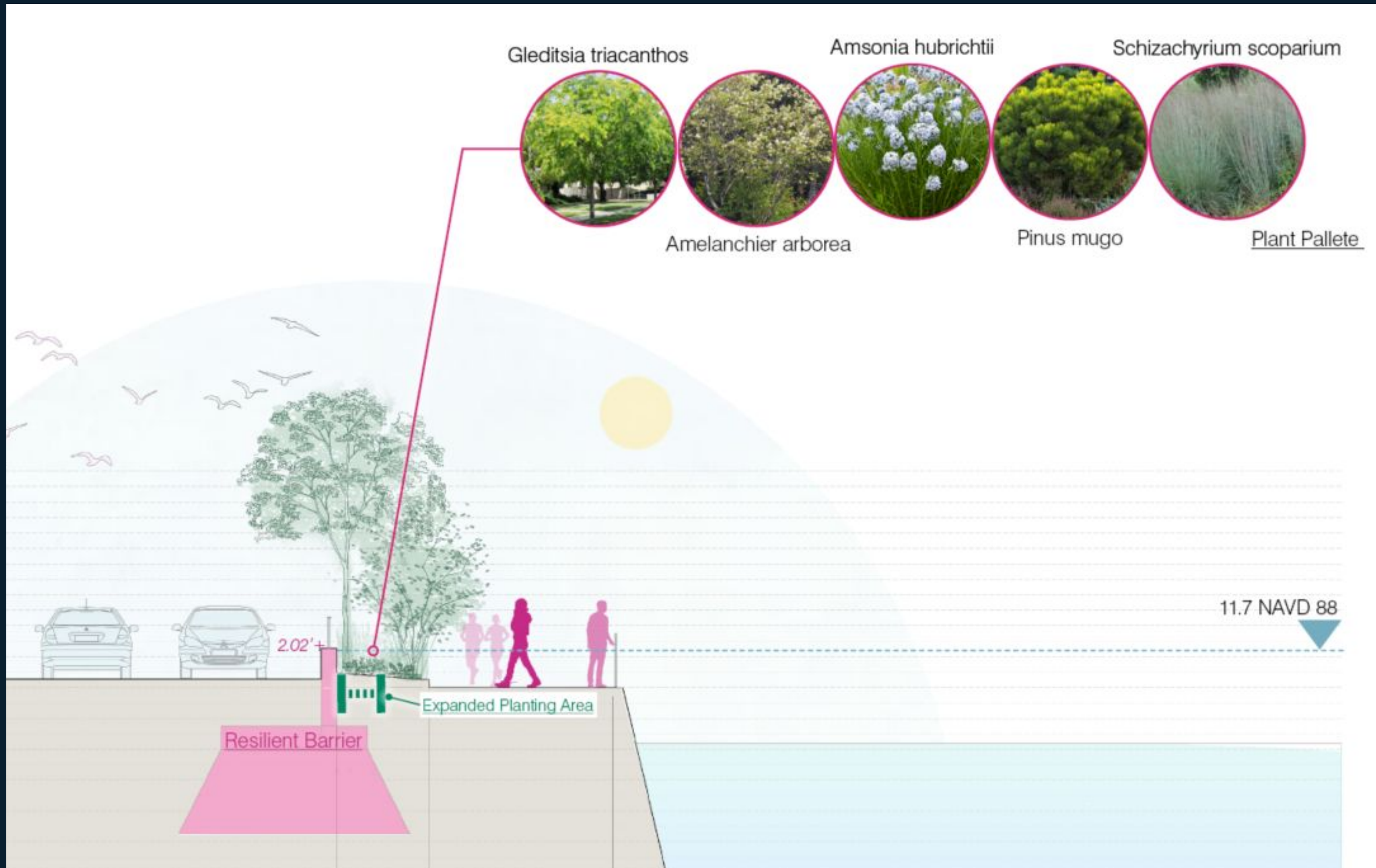
NORMAL DRAINAGE

Water drains to Channel when Channel water level falls below ground surface

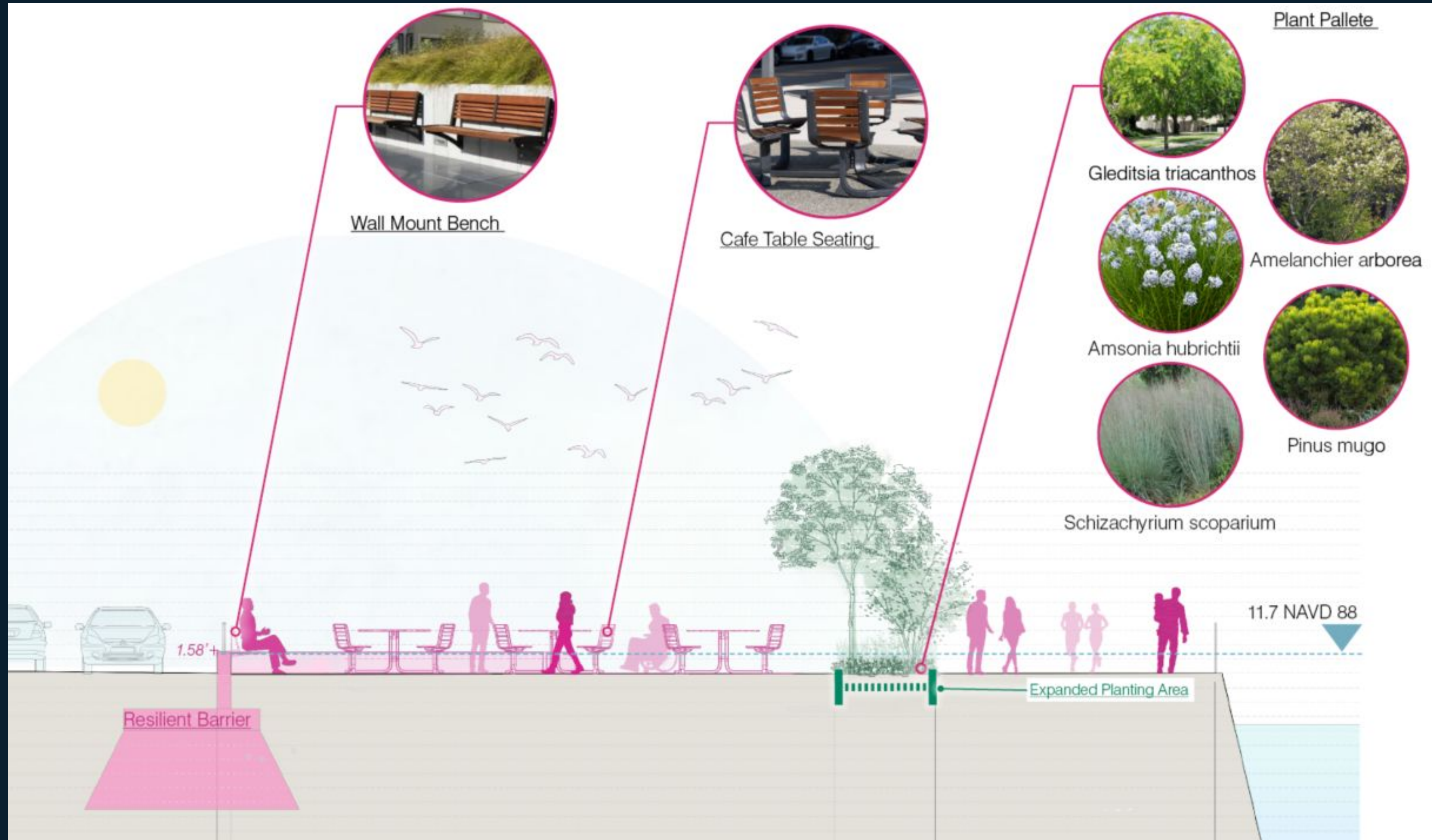
SECTION PLAN



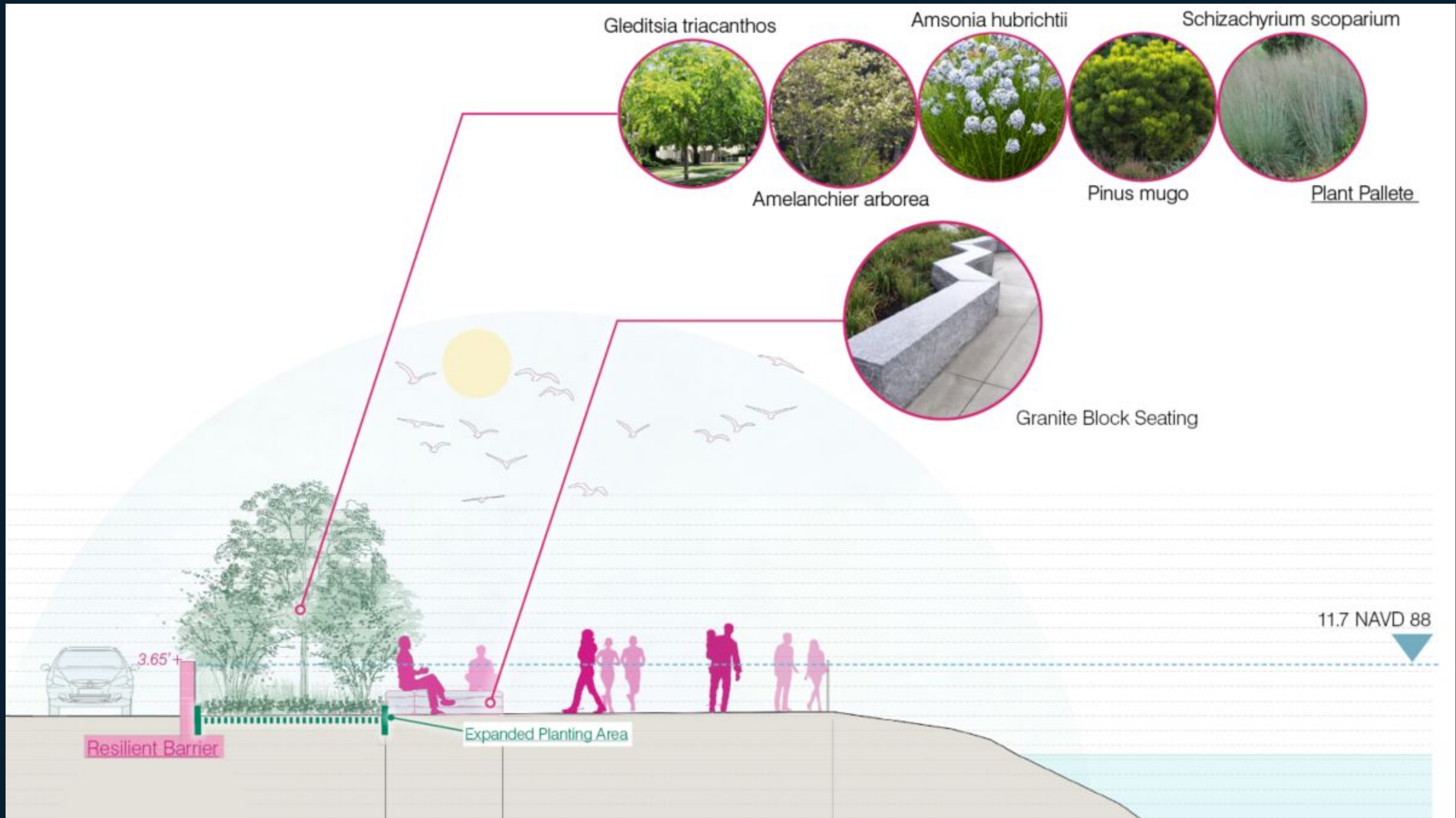
PLANTING SECTION A-A



PLANTING SECTION B-B



PLANTING SECTION C-C



RENDERS



Approximate Wall Location

BEFORE



AFTER

RENDERS



15 Necco St.

Gillette "Z" Building

RENDERS



RENDERS



Gillette Pump House

RENDERS



OWNERSHIP, OPERATIONS, AND MAINTENANCE



- **Ownership**

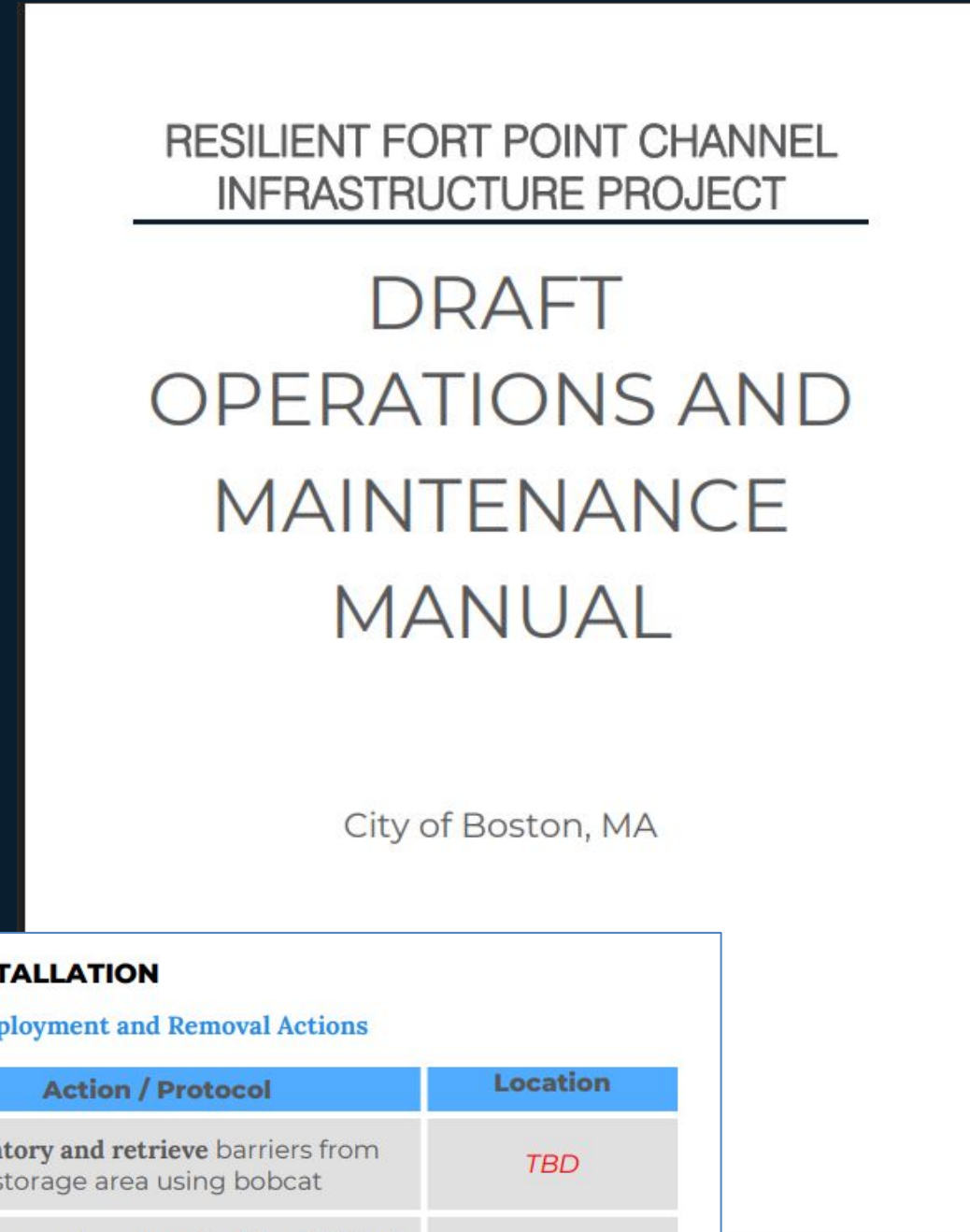
- City will own infrastructure

- **Operations**

- Office of Emergency Management will oversee deployment of flood barriers

- **Maintenance**

- City will maintain infrastructure



Example page

STOP LOG BARRIER SYSTEM INSTALLATION

Table 2: Stop Log Deployment and Removal Actions

Stage	Step	Timeline	Action / Protocol	Location
Pre-Storm	1	12-24 Hours Prior to Event	Inventory and retrieve barriers from storage area using bobcat	TBD
	2	12-24 Hours Prior to Event	Measure and mark pedestrian right of way as needed . Four feet width must be maintained between barrier and sidewalk edge. Three feet width is allowed at obstructions (trees, light post, etc.)	Sidewalk + Right of Way
	3	12-24 Hours Prior to Event	Put up pedestrian signage on sidewalk alerting pedestrians of the flood barriers and directing them to alternative routes	Deployment Area

32 FORT POINT CHANNEL OPERATIONS AND MAINTENANCE MANUAL

WHAT WE'VE COVERED

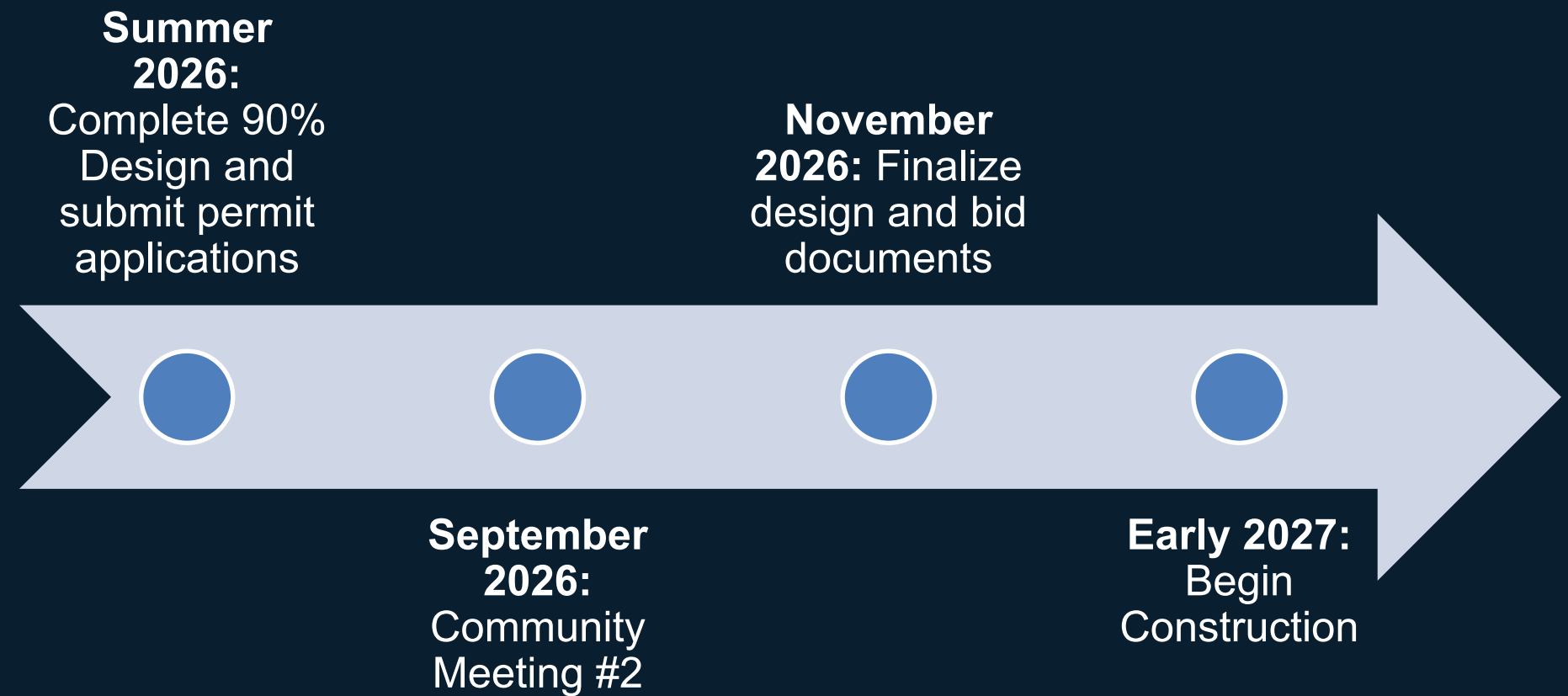


- **Project evolution**

- No federal involvement
- Reduced extent and footprint
- Lower barrier height

- Funded with **City dollars**

- City recognizes that there is a flooding issue
- Permanent infrastructure with a plan for replacement
- Ownership, operations, and maintenance by City departments



- **Coastal floodwall system**

- Concrete and deployable barriers provide significant benefit to neighborhood for decades
- Integrated solution with projects north of Summer St
- Stormwater system improvements to prevent backflow
- Expanded vegetation and public areas along Harborwalk



Accelerated Timeline is Key to Success

- City: Refine and advance design; Coordinate with owners and City departments; Submit permit application set; Define roles and responsibilities internally and with property owners
- Community: Share feedback directly with City team by August 1, 2026
 - Email: benjamin.matusow@boston.gov
 - Website:
<https://www.bostonplans.org/planning-zoning/planning-initiatives/resilient-fort-point-channel>
- **Next update planned for September 2026**

THANK YOU

HAVE QUESTIONS?

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OR VISIT:
bostonplans.org



Planning Department

CITY of BOSTON