

WELCOME!

DORCHESTER'S RESILIENT WATERFRONT PROJECT COMMUNITY WORKSHOP #2



SCAPE

IN ASSOCIATION:

TETRA TECH

WOODS HOLE GROUP

DAWOOD

MAY 24, 2023



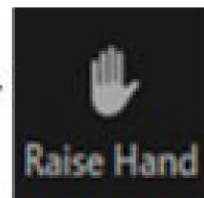
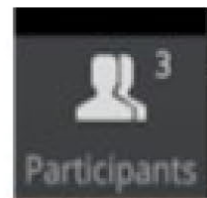
ZOOM TIPS

Welcome! Here are some tips on using Zoom for first-time users.

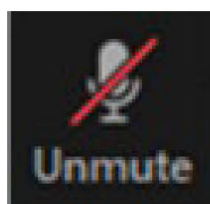
Your controls are at the bottom of the screen



Use the chat to type a comment or ask a question at any time – Members of the RSMPOC/ BPDA will moderate the chat



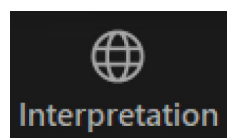
To raise your hand, click on “Participants” at the bottom of your screen, and then choose the “Raise Hand” option in the participant box, or press *9 on your phone



Mute/unmute – Participants will be muted during the presentation – the host will unmute you during discussion if you raise your hand and it is your turn to talk. To mute/unmute on your phone press *6.



Turns your video on/off



Do you need translations in Spanish, Vietnamese, or Haitian Creole? Click on the globe  at the bottom of the page and select the appropriate language.

ZOOM ETIQUETTE

We want to ensure that this conversation is a pleasant experience for all attendees.

- Please remain muted until called on. If you'd like to speak during this time please use the "Raise Hand" function in Zoom so a BPDA moderator can unmute attendees.
- Please be respectful of each other's time.
- We ask that participants limit their questions so that others may participate in the discussion. If you have more questions, please wait until all others attending have an opportunity to ask questions.
- If we are unable to get to your question at this meeting please put them in the Chat at the end or email delaney.morris@boston.gov

MEETING RECORDING

At the request of community members, this event will be recorded and posted on the BPDA's Dorchester Resilient Waterfront project review webpage for those who are unable to attend the Zoom event live:

<https://www.bostonplans.org/planning/planning-initiatives/dorchester-resilient-waterfront-project>

Also, it is possible that participants may be recording the meeting with their phone cameras or other devices. If you do not wish to be recorded during the meeting, please turn off your microphone and camera.

If your camera and microphone are off, you can still participate through the text chat feature.

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MAY 24, 2023



TEAM INTRODUCTION



IN PARTNERSHIP WITH:



City of Boston
Environment



MASSACHUSETTS DEPARTMENT OF
CONSERVATION AND RECREATION

CONSULTANT TEAM:



LANDSCAPE ARCHITECTURE



TETRA TECH

COASTAL ENGINEERING DESIGN



COASTAL MODELING



SITE SURVEY

GRANT FUNDED BY:



AGENDA

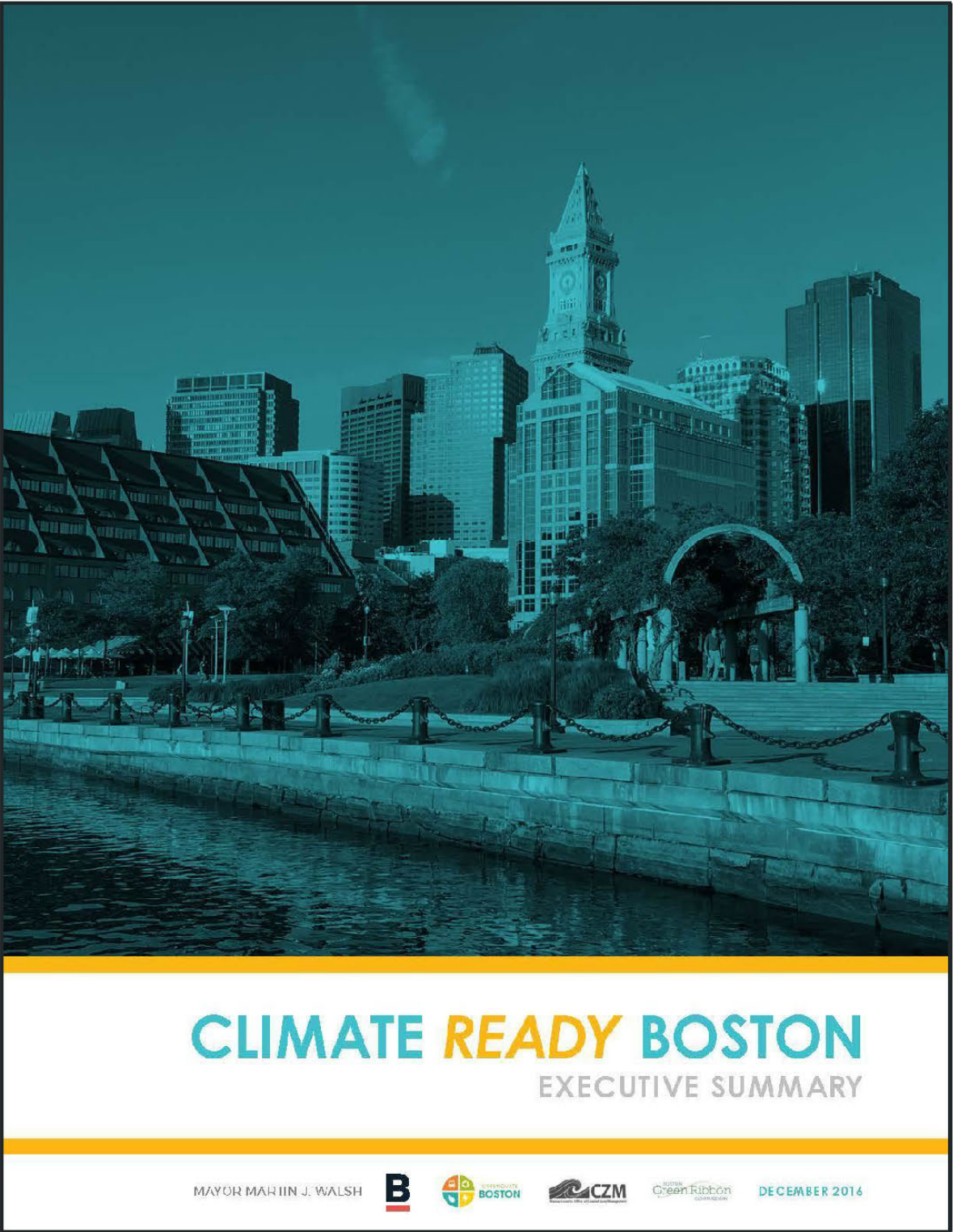
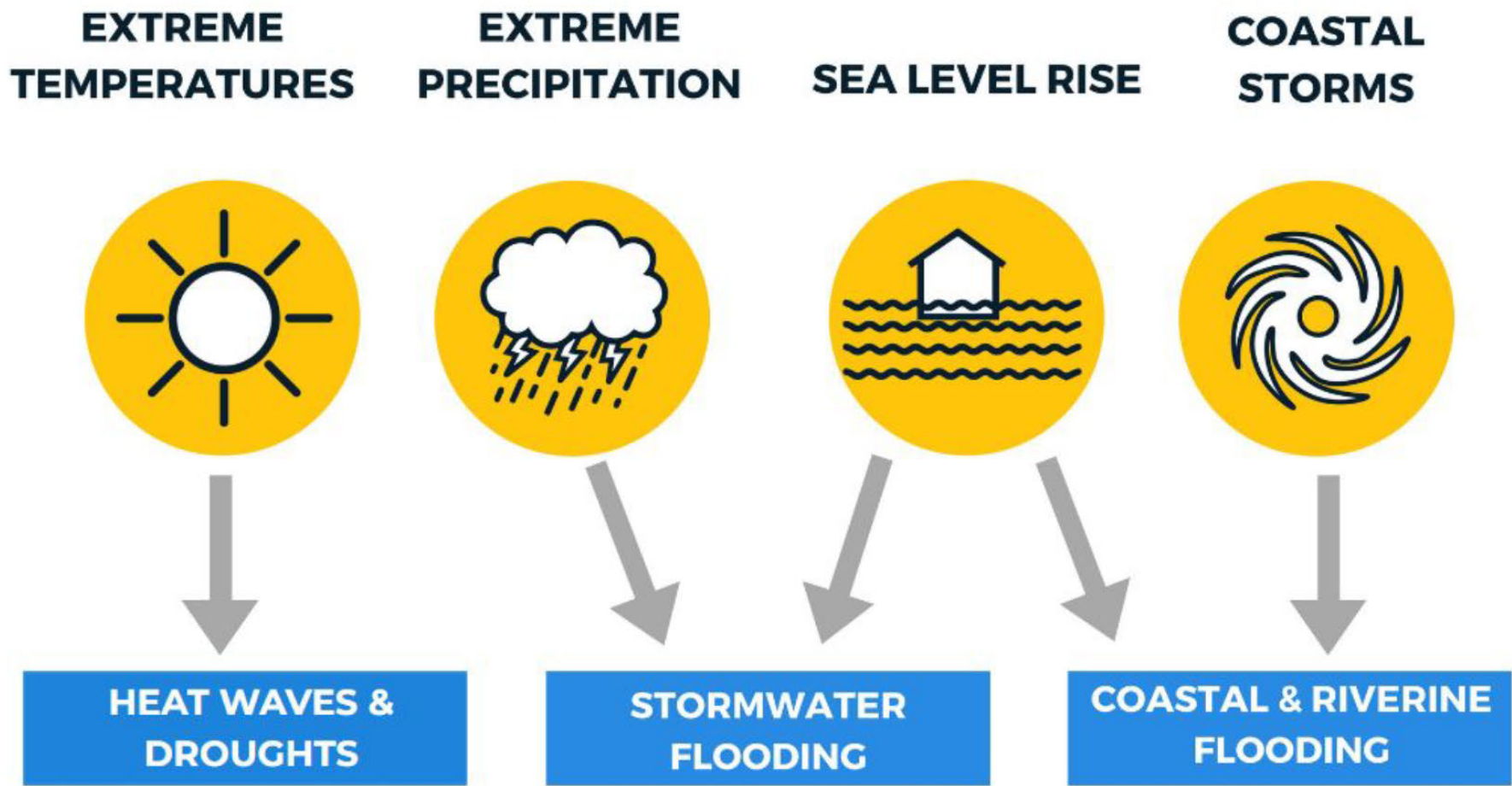
- **PROJECT INTRODUCTION (ABBREVIATED)**
- **RECAP OF WORKSHOP #1: WHAT WE HEARD & KEY TAKEAWAYS**
- **DESIGN REFINEMENTS**
- **NEXT STEPS**

PROJECT EXTENTS

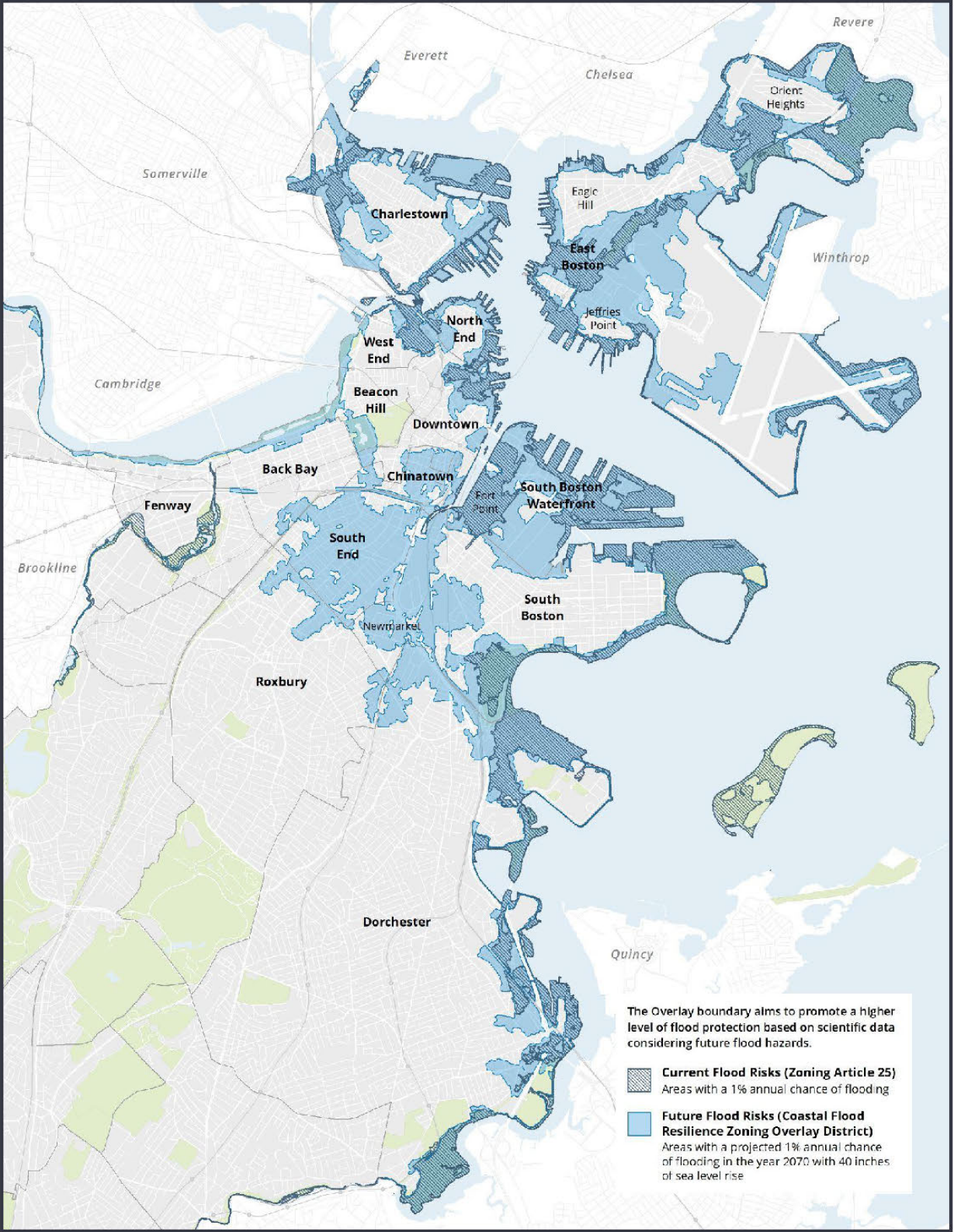


CLIMATE READY BOSTON

In 2016, the City of Boston released the *Climate Ready Boston* report, which included a comprehensive vulnerability assessment of current and projected risks associated with each of three climate hazards under a low, medium, and high greenhouse gas emissions scenario.



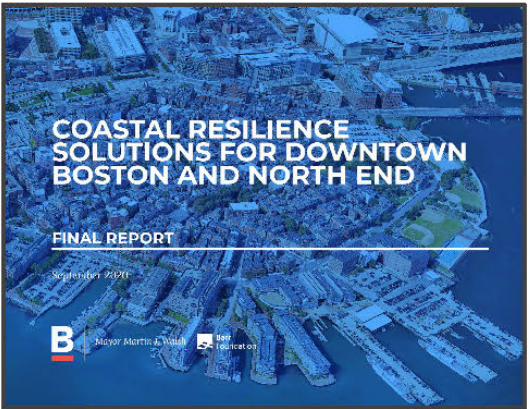
NEIGHBORHOOD-LEVEL COASTAL RESILIENCE PLANNING



**East Boston
& Charlestown
Phase 1 (2017)**



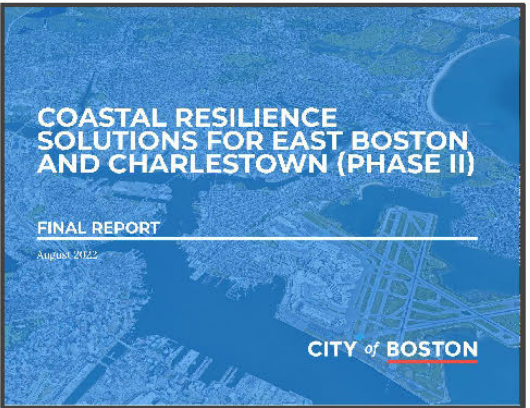
**South Boston
(2018)**



**North End &
Downtown
(2020)**



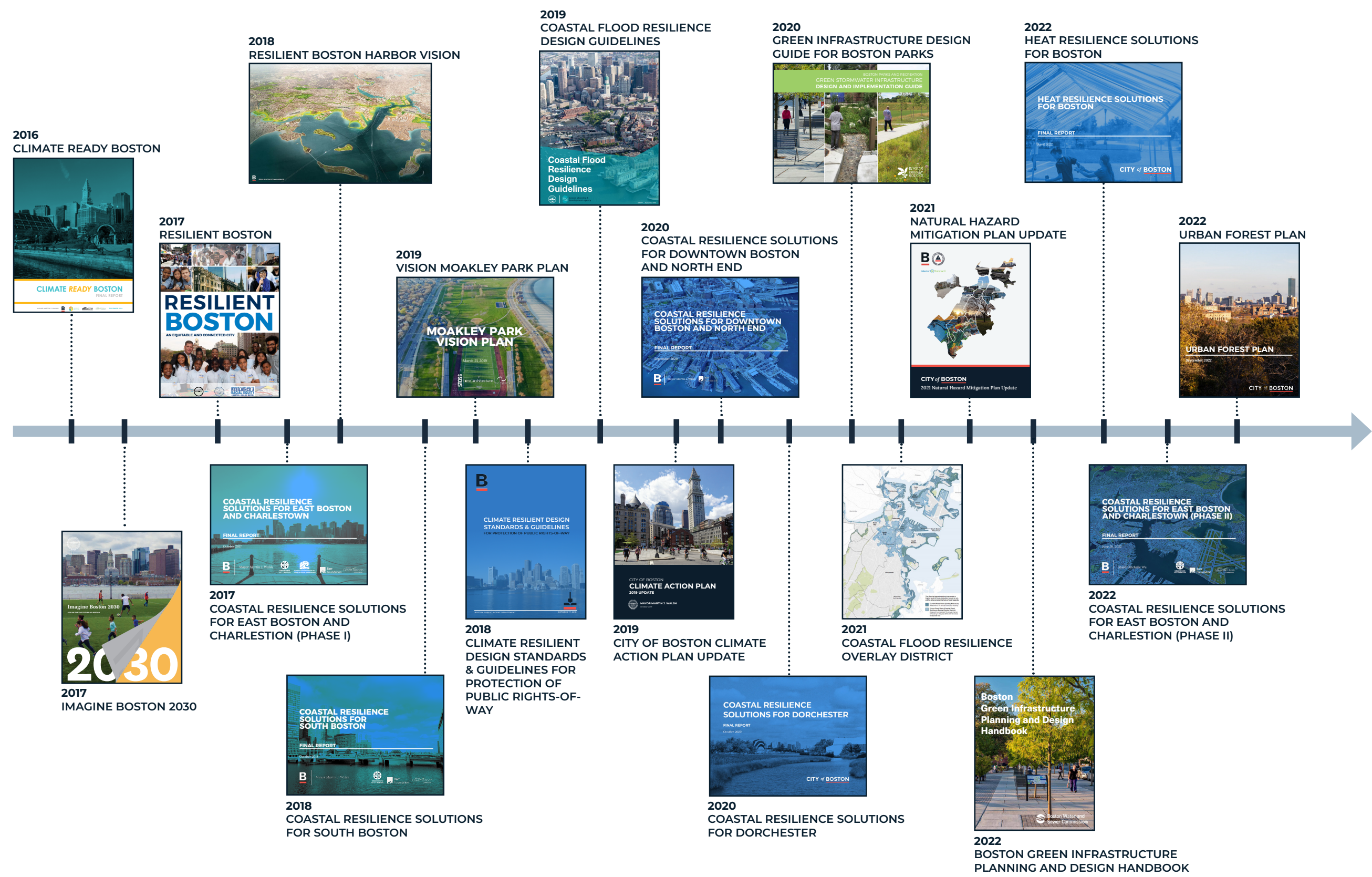
**Dorchester
(2020)**



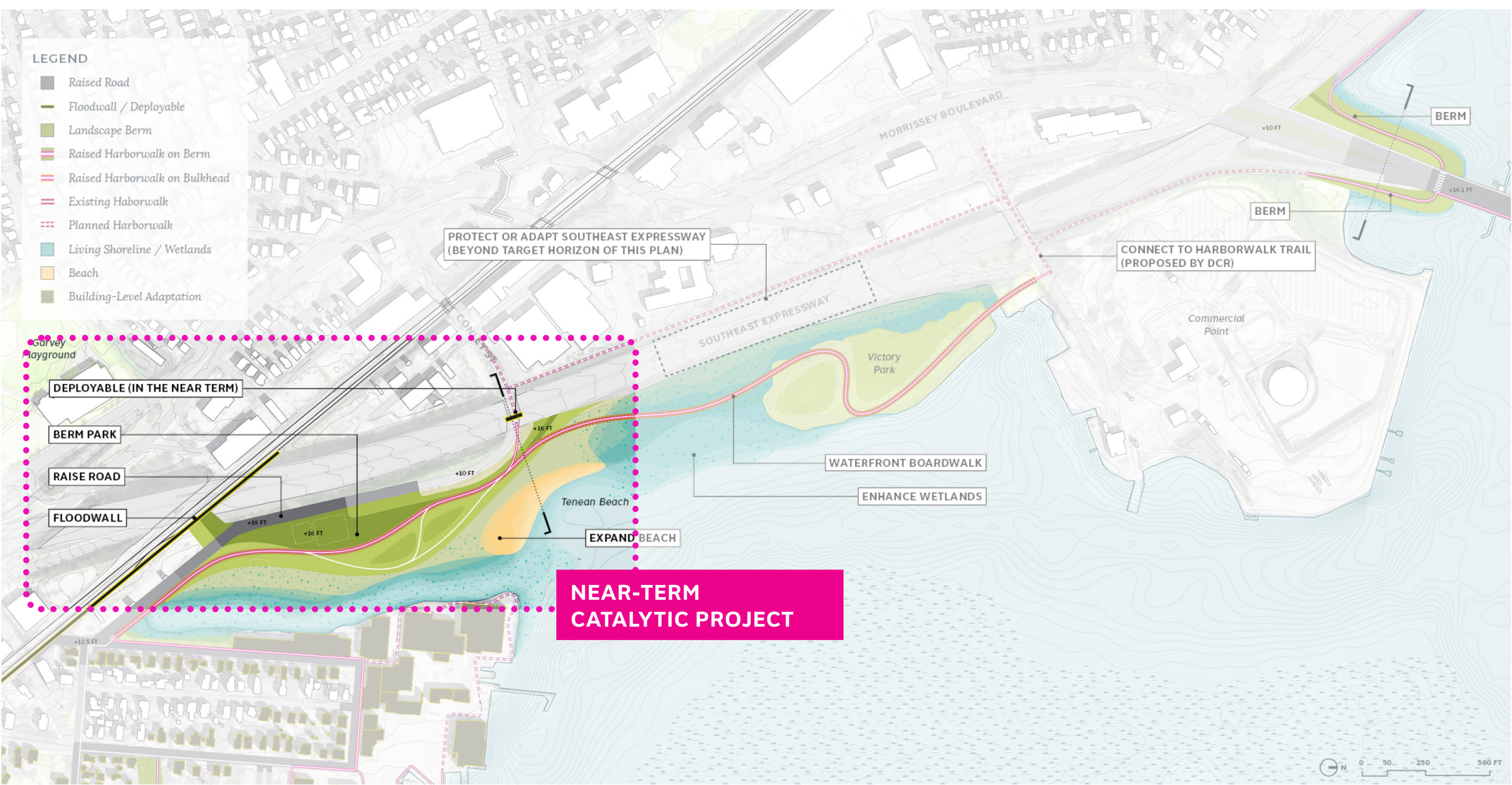
**East Boston
& Charlestown
Phase 2 (2022)**

- 1% annual chance storm with 9 inches of SLR (2030s)
- 1% annual chance storm with 40 inches of SLR (2070s)

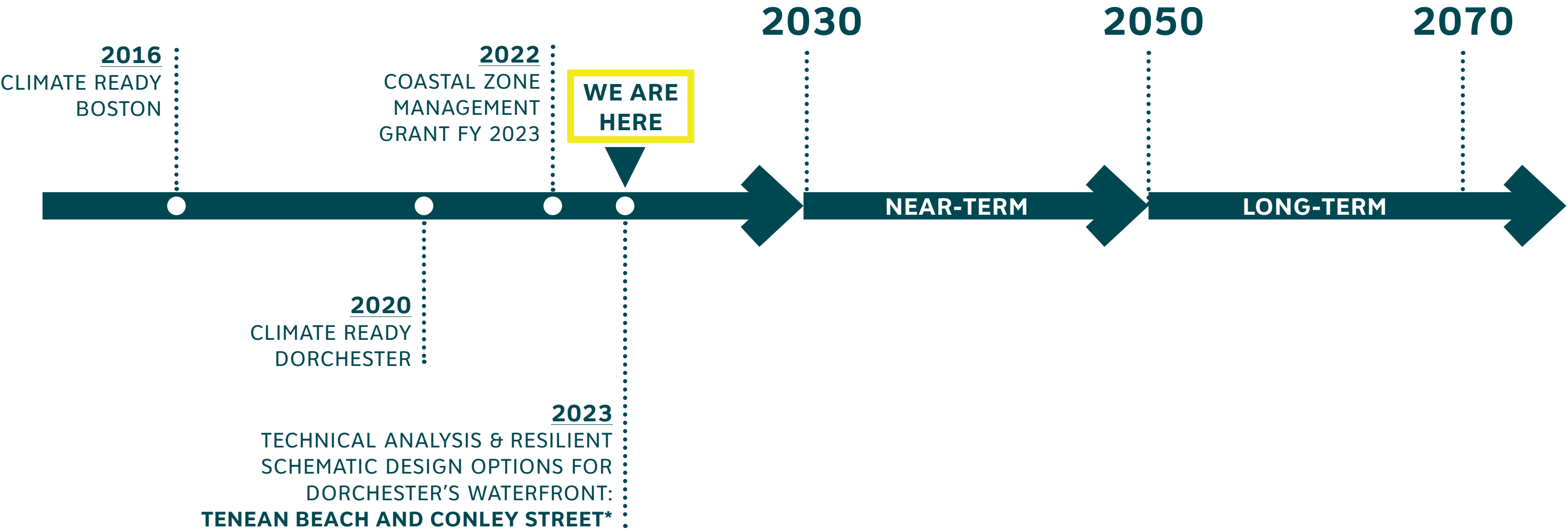
CITYWIDE CLIMATE RESILIENCE EFFORTS



CLIMATE READY DORCHESTER: LONG-TERM VISION

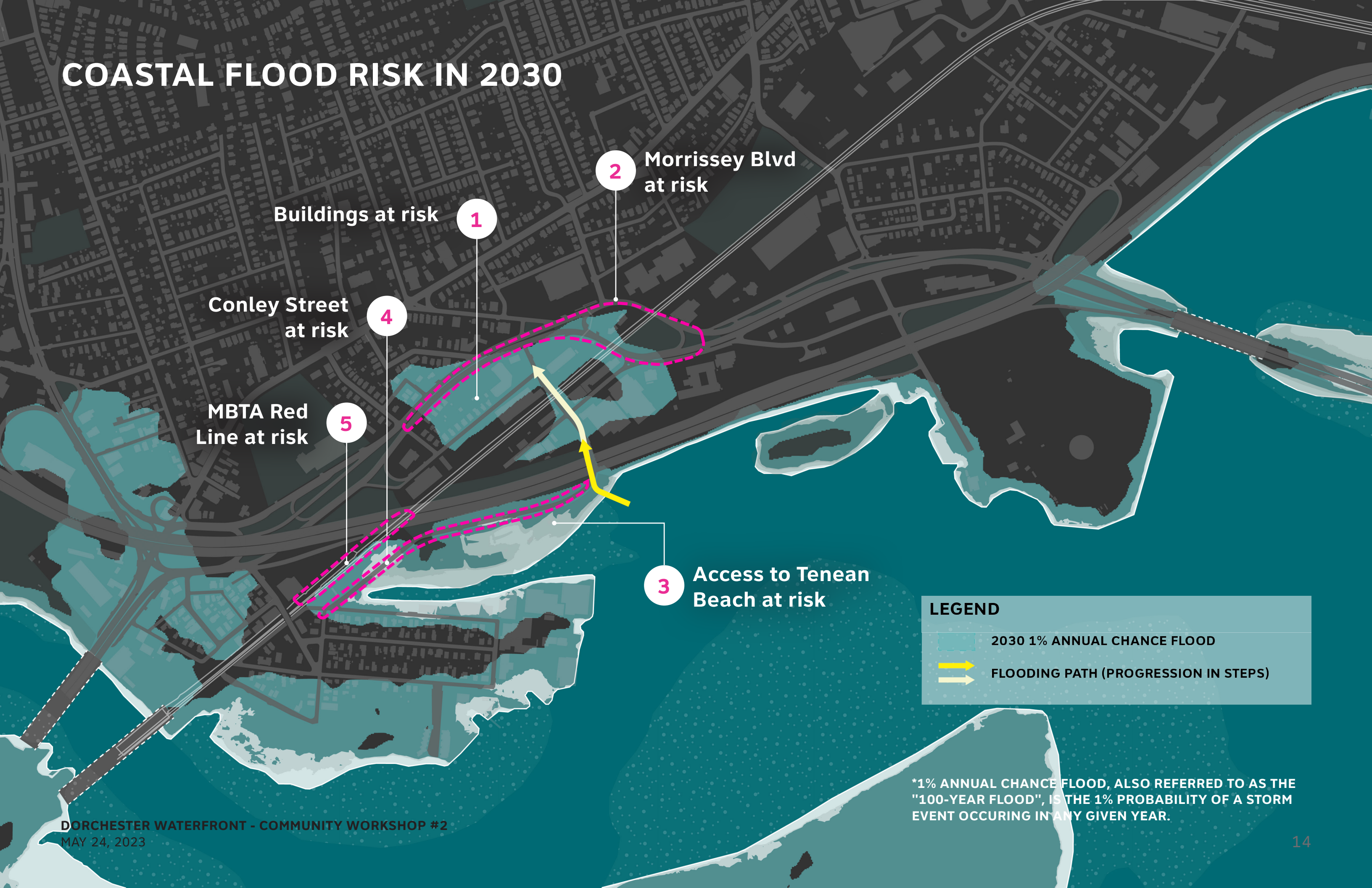


PROJECT TIMELINE



*POST CZM GRANT PROJECT WILL BE SEEKING ADDITIONAL FUNDING FOR FINAL DESIGN, PERMITTING AND CONSTRUCTION

COASTAL FLOOD RISK IN 2030



Buildings at risk

1

2

Morrissey Blvd at risk

4

Conley Street at risk

5

MBTA Red Line at risk

3

Access to Tenean Beach at risk

LEGEND

2030 1% ANNUAL CHANCE FLOOD

FLOODING PATH (PROGRESSION IN STEPS)

*1% ANNUAL CHANCE FLOOD, ALSO REFERRED TO AS THE "100-YEAR FLOOD", IS THE 1% PROBABILITY OF A STORM EVENT OCCURING IN ANY GIVEN YEAR.

PROJECT EXTENTS



PROJECT GOALS

- 1 Provide flood risk reduction to inland neighborhoods as well as DCR's Morrissey Boulevard during:
 - (a) larger/rare flood events,
 - (b) tidal flood events.

- 2 Preserve, protect, and enhance waterfront access and recreation, by providing flood risk reduction to DCR's assets at Tenean Beach.

- 3 Preserve, protect, and enhance local ecology and open space.

- 4 Improve or be compatible with adaptation efforts of critical transportation infrastructure, such as (1) the Southeast Expressway, (2) MBTA Rail Line, and (3) Evacuation routes from Port Norfolk

- 5 Improve or be compatible with adaptation efforts of stormwater infrastructure.

CLIMATE READY BOSTON EVALUATION CRITERIA



EFFECTIVENESS



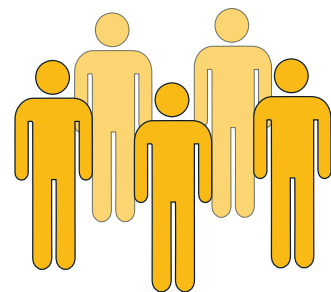
**FEASIBILITY &
MAINTENANCE**



**DESIGN LIFE &
ADAPTABILITY**



**ENVIRONMENTAL & PUBLIC
HEALTH BENEFITS**



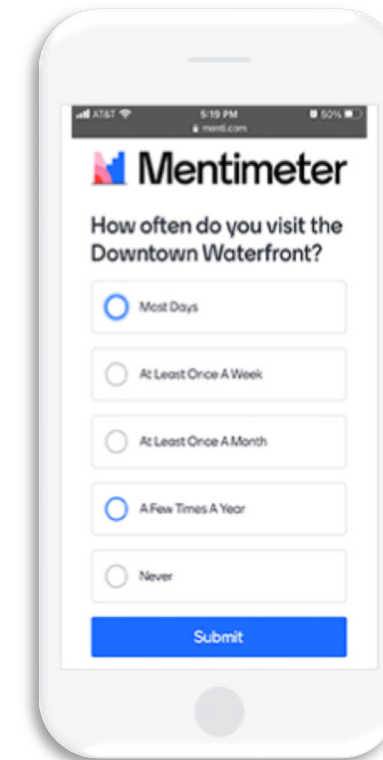
**SOCIAL EQUITY &
QUALITY OF LIFE**

HOW TO USE MENTIMETER?

WEB BROWSER



SMARTPHONE



**GO TO WWW.MENTI.COM &
USE THE CODE 1597 8140**

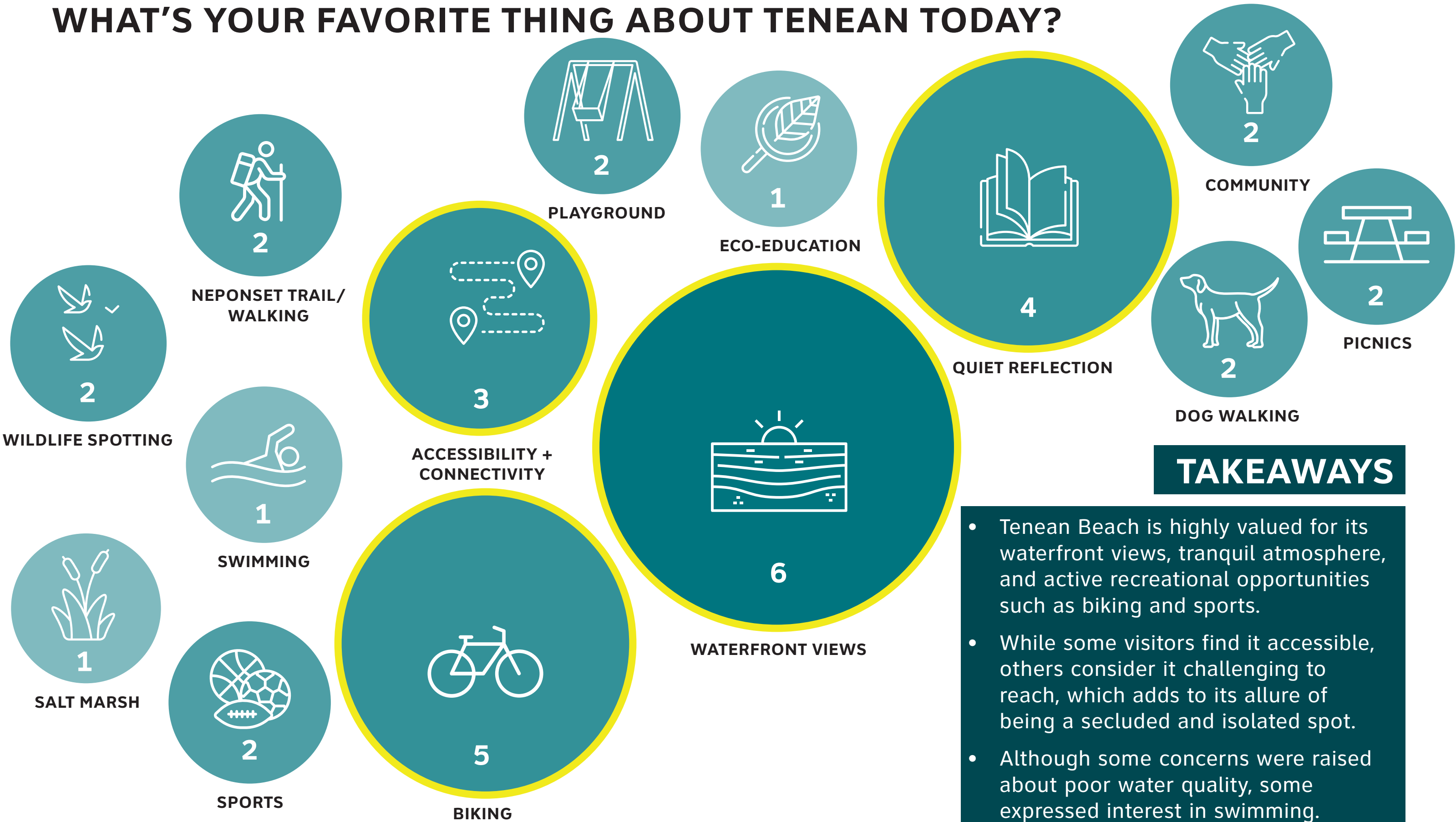
*WHO DO WE HAVE HERE IN THE
VIRTUAL ROOM?*

RECAP OF WORKSHOP #1: WHAT WE HEARD & KEY TAKEAWAYS



**boston planning &
development agency**

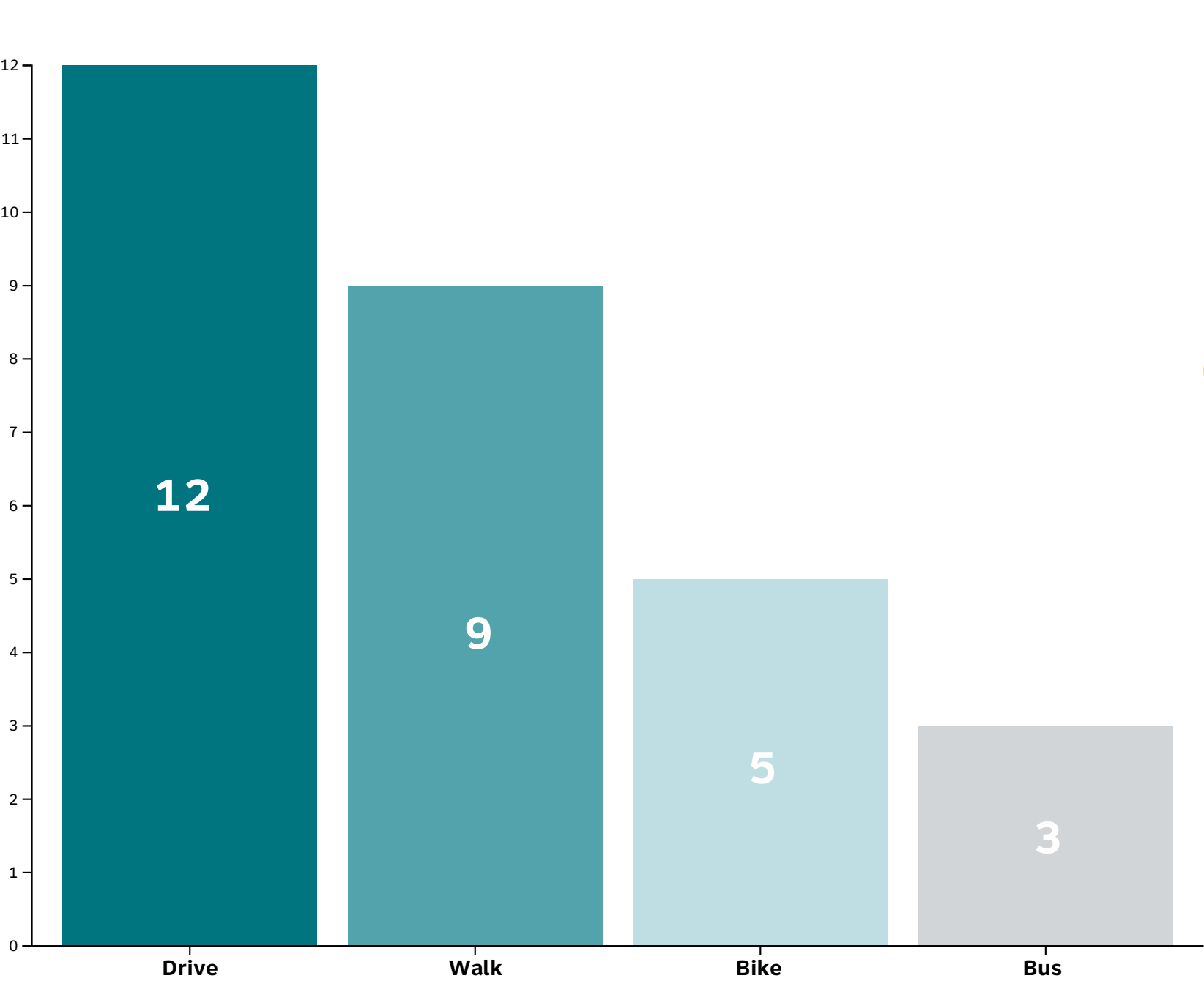
WHAT'S YOUR FAVORITE THING ABOUT TENEAN TODAY?



TAKEAWAYS

- Tenean Beach is highly valued for its waterfront views, tranquil atmosphere, and active recreational opportunities such as biking and sports.
- While some visitors find it accessible, others consider it challenging to reach, which adds to its allure of being a secluded and isolated spot.
- Although some concerns were raised about poor water quality, some expressed interest in swimming.

HOW DO YOU ACCESS THE SITE?



TAKEAWAYS

- The primary modes of transportation to the area are cars and walking.
- Several participants expressed a desire to take public transit or walk, but poor connections and damaged paths make it difficult.

HAVE YOU EXPERIENCED THE IMPACTS OF FLOODING AT TENEAN BEACH?



“
Yes, all the time! Port Norfolk
was isolated during the 2018
storms. The parking lot floods
more than 4 times a year. I have
run clean ups of debris.”



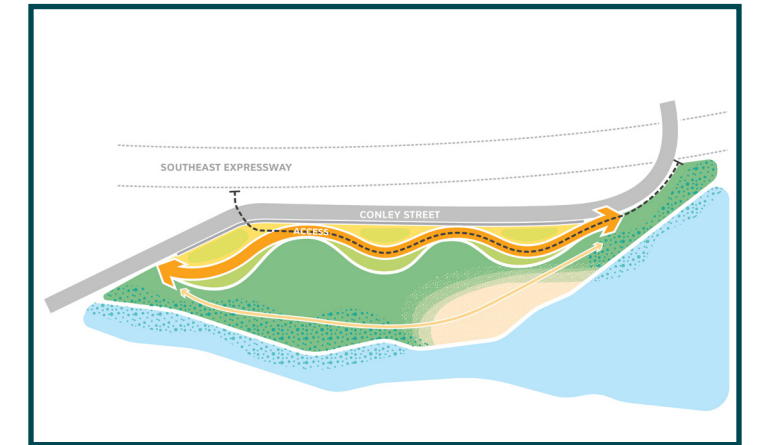
TAKEAWAYS

- Flooding is a common problem, particularly during high tides, affecting almost all meeting participants.
- The flooding occurs frequently and rapidly, rendering paths and parking unusable and bringing in debris.

WHAT DO YOU LIKE ABOUT DESIGN OPTION A (RE-NATURE)?

TAKEAWAYS

- While many appreciated option A's nature-based focus, concerns about long-term usability and lack of active space were raised.
- Participants expressed a desire to maintain Conley Street as an access route and have concerns about a deployable flood wall.
- Some participants were concerned that Option A did not have enough parking.



PRIORITIES



CREEK & SALT MARSH RESTORATION



NATURE BASED SOLUTIONS & RENATURING



MAINTAINS MORE BEACH/SAND SHORELINE

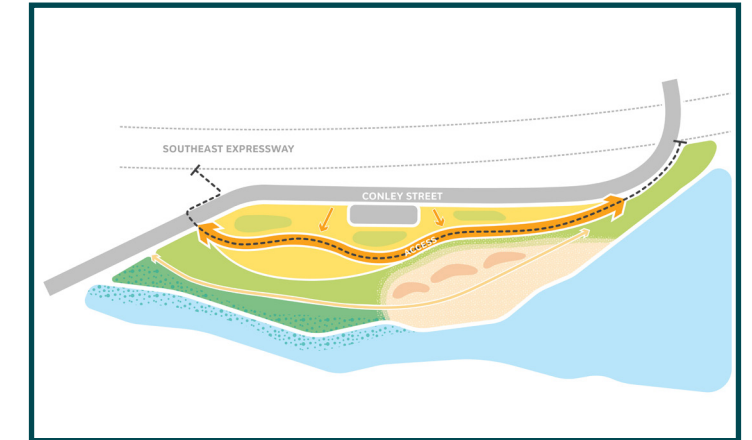


ENCOURAGES MORE WILDLIFE

WHAT DO YOU LIKE ABOUT DESIGN OPTION B (ELEVATE)?

TAKEAWAYS

- People were generally more enthusiastic about option B, citing its ability to maintain usable space for longer and provide equitable access and resources, as well as its passive flood management solution.
- Some participants suggested incorporating more renaturing and living shorelines measures from option A, and concerns about floodwater management were also expressed.



PRIORITIES



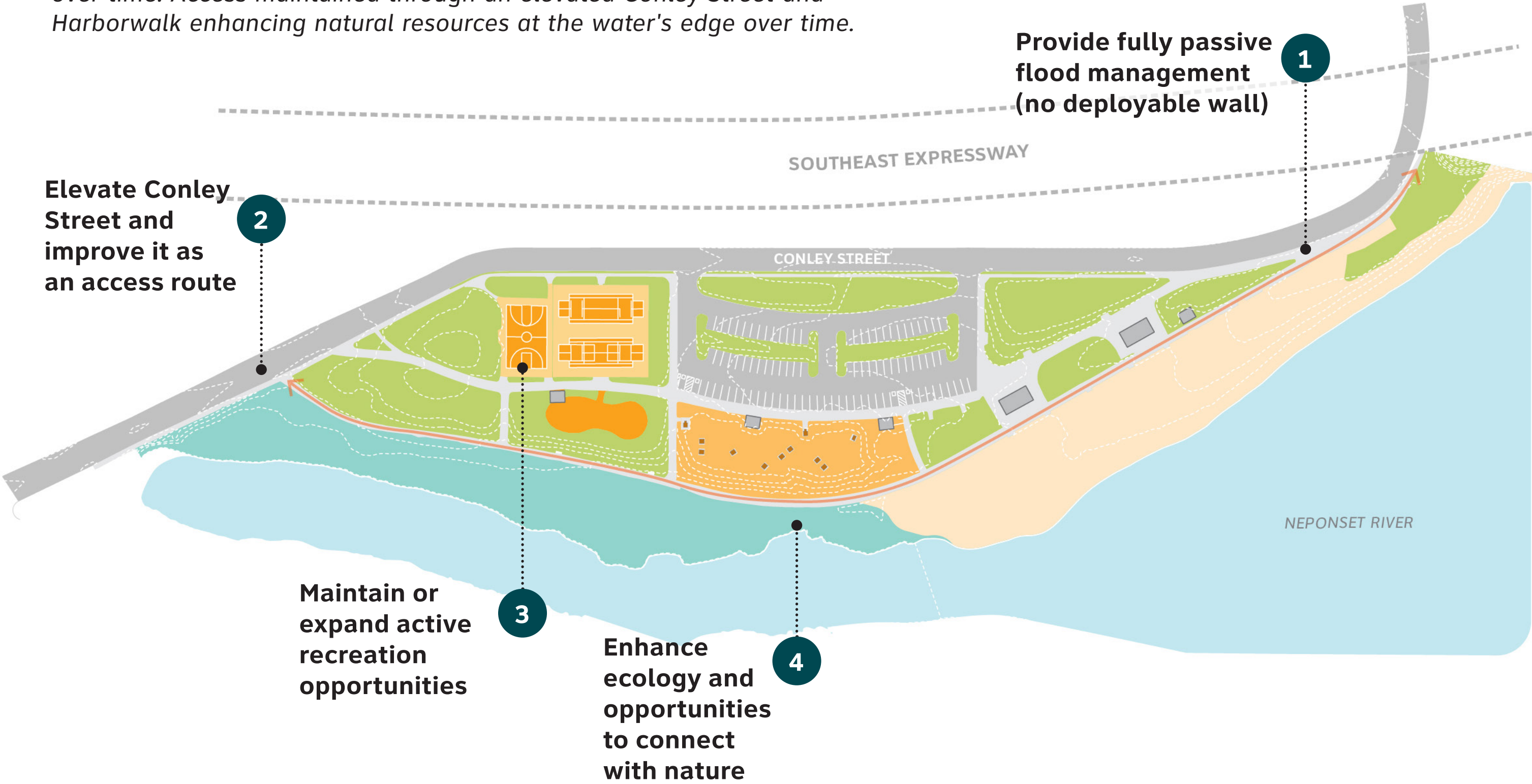
DESIGN REFINEMENTS



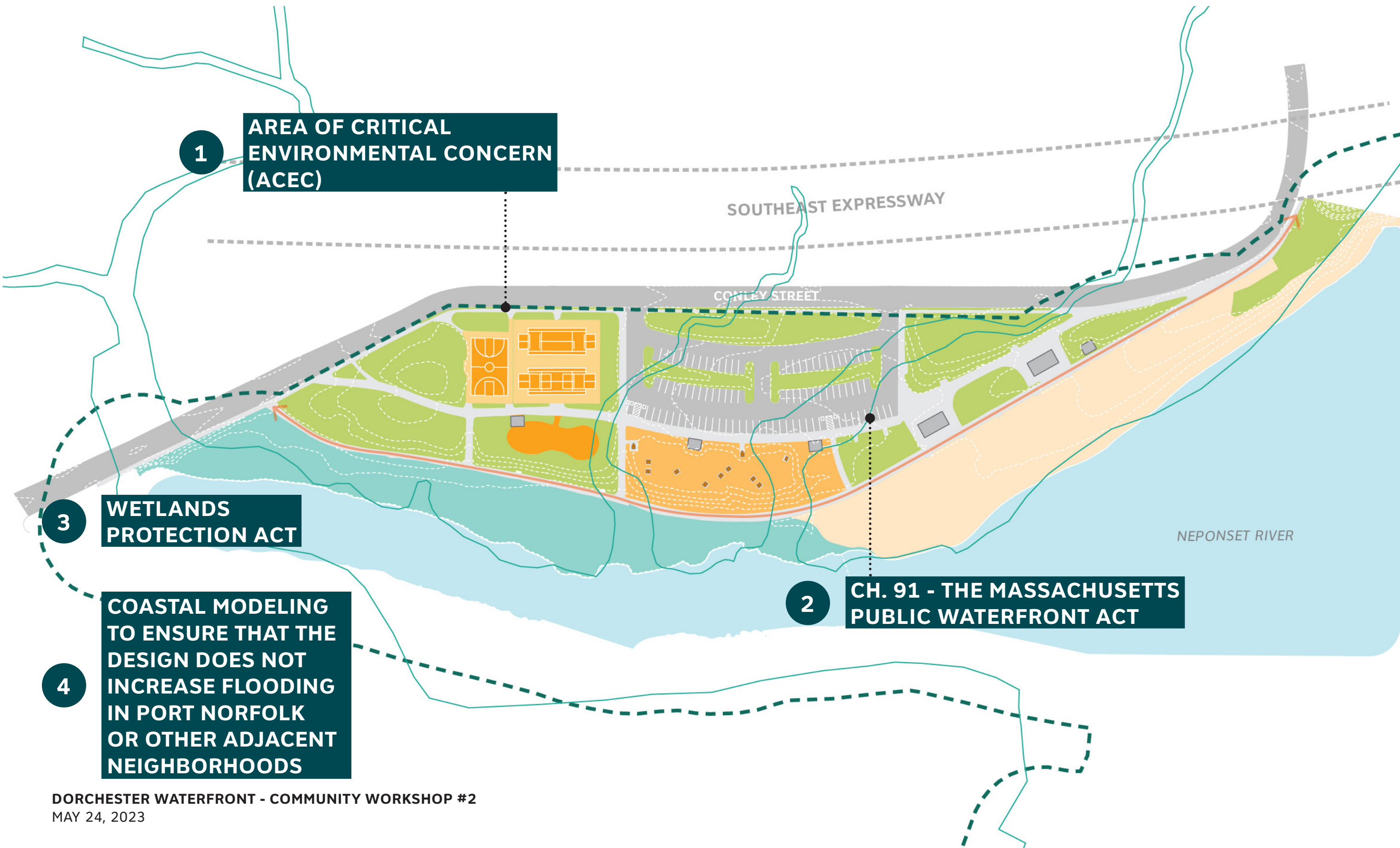
**boston planning &
development agency**

DESIGN PARAMETERS | EXISTING PLAN

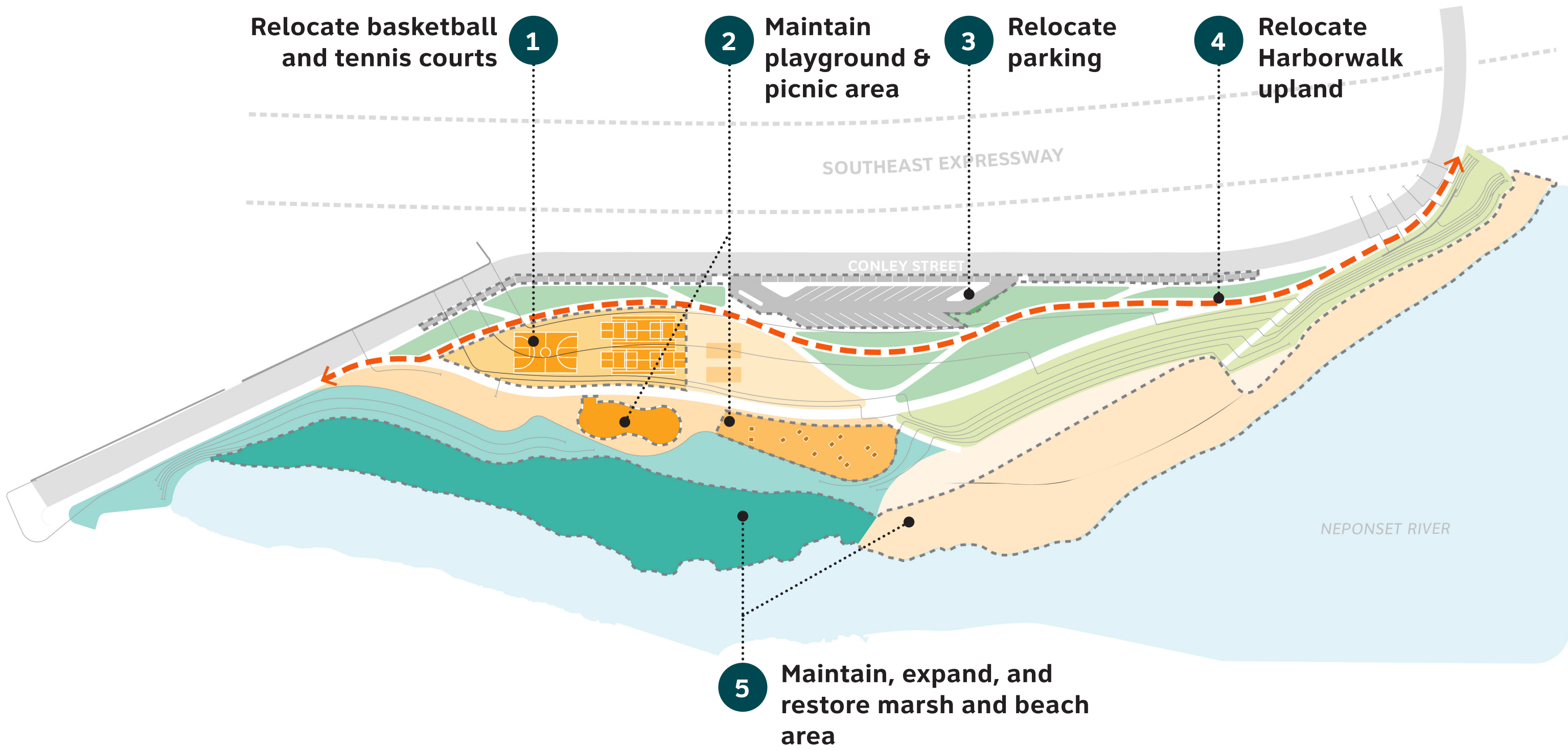
A terraced park with elevated recreational amenities to extend use over time. Access maintained through an elevated Conley Street and Harborwalk enhancing natural resources at the water's edge over time.



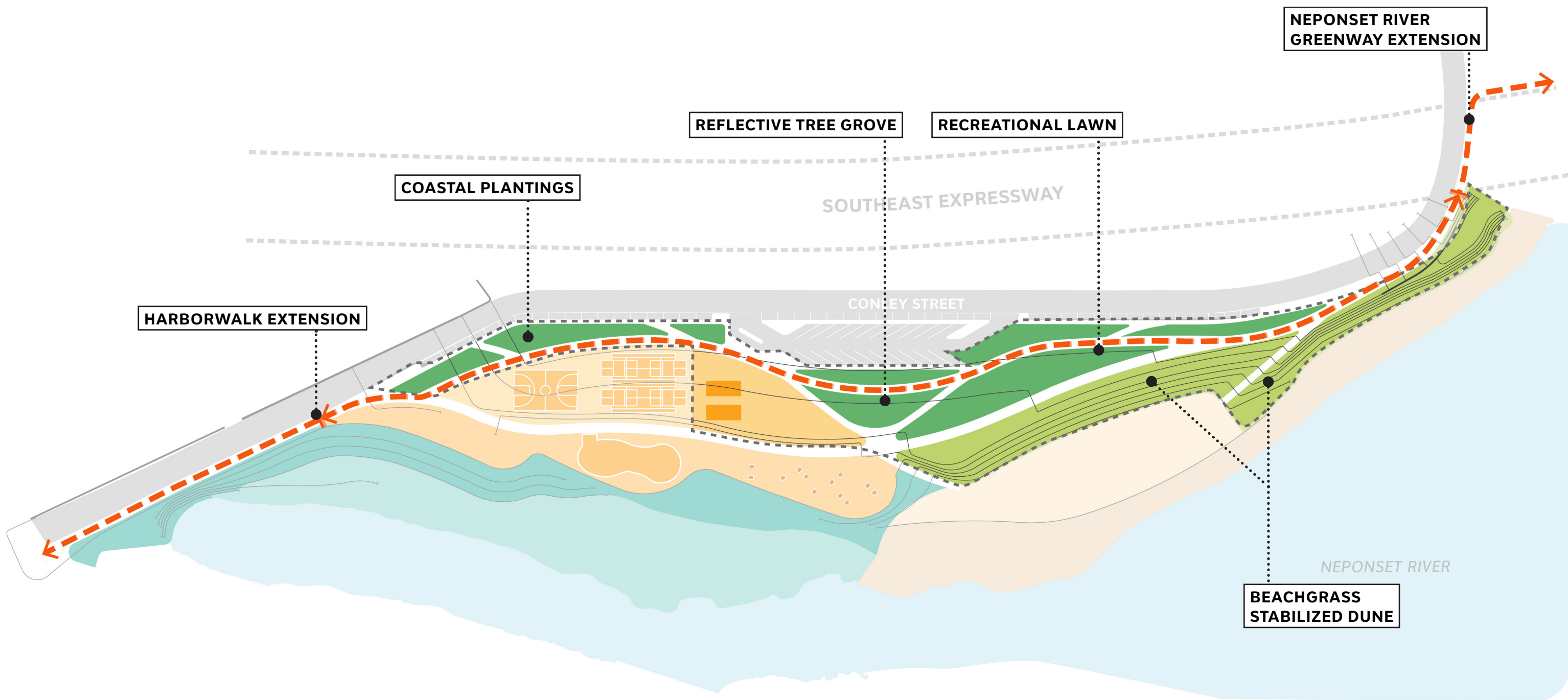
TECHNICAL CONSIDERATIONS | EXISTING PLAN



MAINTAIN & RELOCATE



NEW PASSIVE & ACTIVE PROGRAMMING



PROPOSED DESIGN

ACCESS

- 1 PARKING AND DROP-OFF
- 2 NEPONSET RIVER GREENWAY
EXTENSION
- 3 RE-ALIGNED HARBORWALK
- 4 EXPANDED HARBORWALK PATH
AT CONLEY ST

ACTIVE

- 5 SPORTS COURTS
- 6 EXISTING
PLAYGROUND

PASSIVE

- 7 RECREATIONAL LAWN
- 8 PICNIC AREA
- 9 REFLECTIVE TREE GROVE
- 10 BEACH

ECOLOGICAL

- 11 COASTAL PLANTINGS
- 12 CREEK RESTORATION
- 13 BEACHGRASS STABILIZED
DUNE



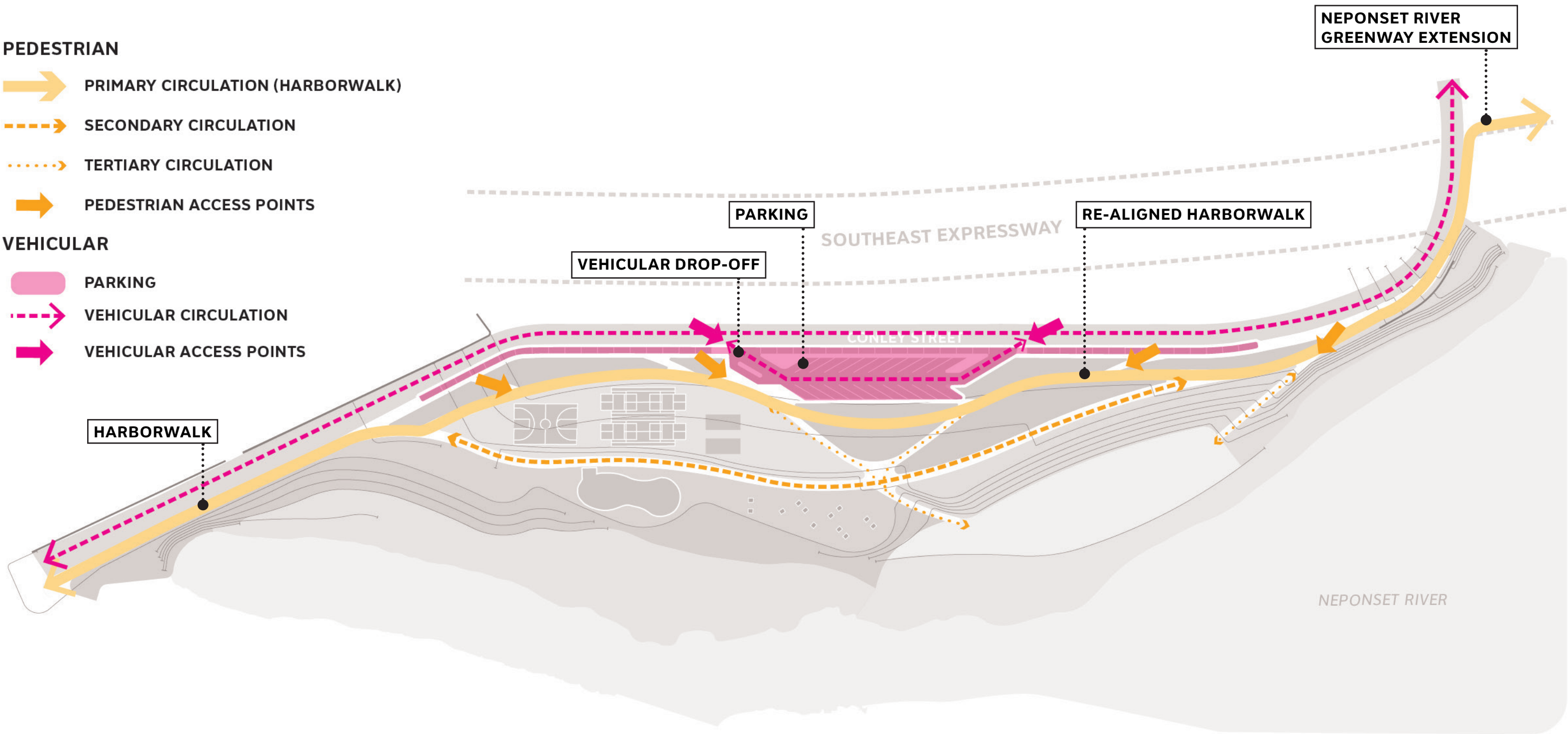
ACCESS & CIRCULATION

PEDESTRIAN

- PRIMARY CIRCULATION (HARBORWALK)
- SECONDARY CIRCULATION
- TERTIARY CIRCULATION
- PEDESTRIAN ACCESS POINTS

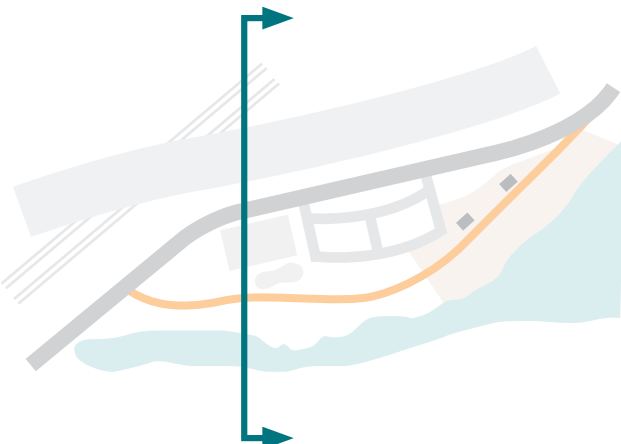
VEHICULAR

- PARKING
- VEHICULAR CIRCULATION
- VEHICULAR ACCESS POINTS

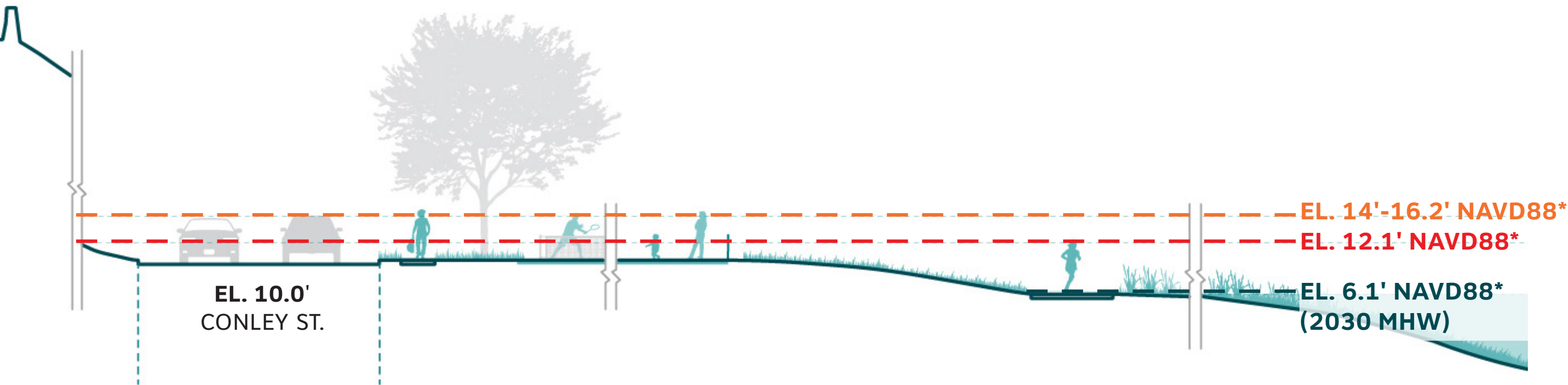


DESIGN FLOOD ELEVATIONS

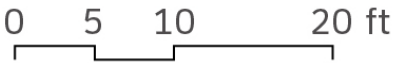
The "Design Flood Elevation" (DFE) is the target elevation we're aiming to design coastal resilience solutions in order to reduce coastal flood risk in the **near term (2030s)** and the **long term (2050s - 2070s)**.



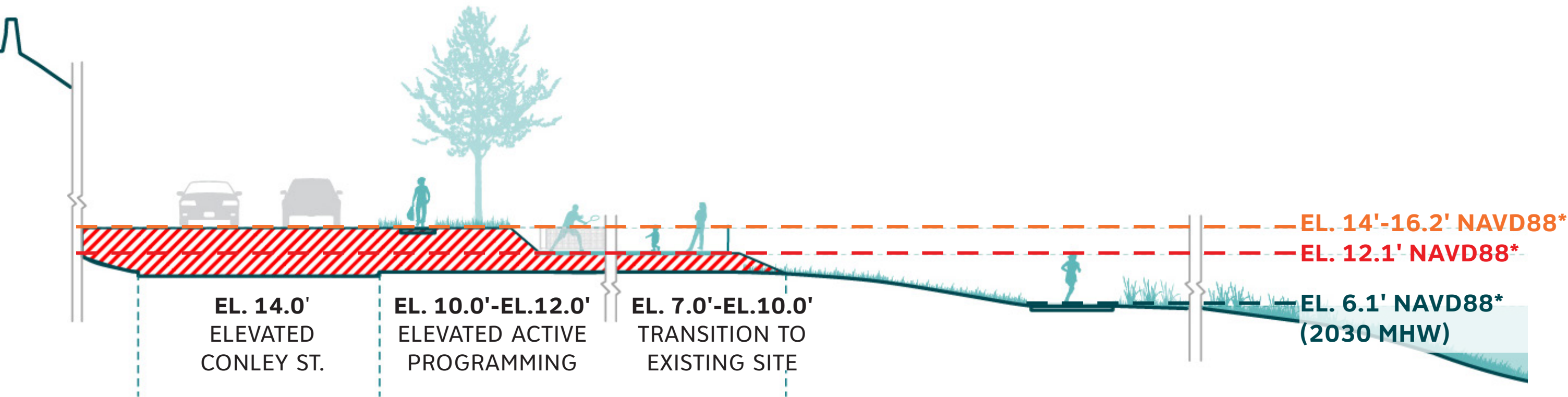
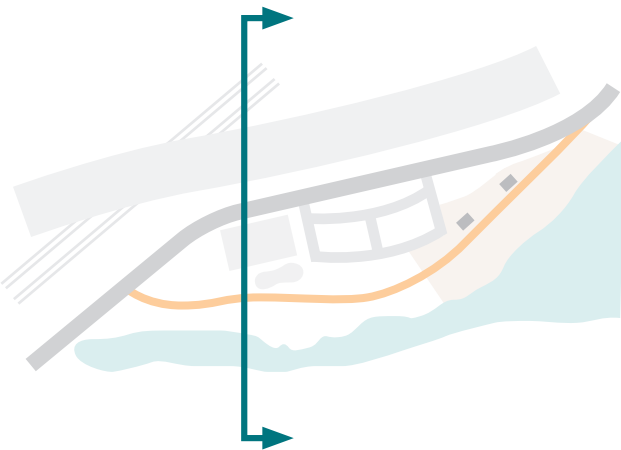
The DFEs are based on 1% annual chance flood and account for sea-level rise and wave action.



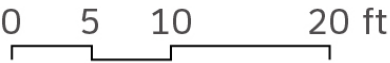
**Elevations given in NAVD88 can be converted to Boston City Base (BCB) elevation by adding 6.46 feet.*



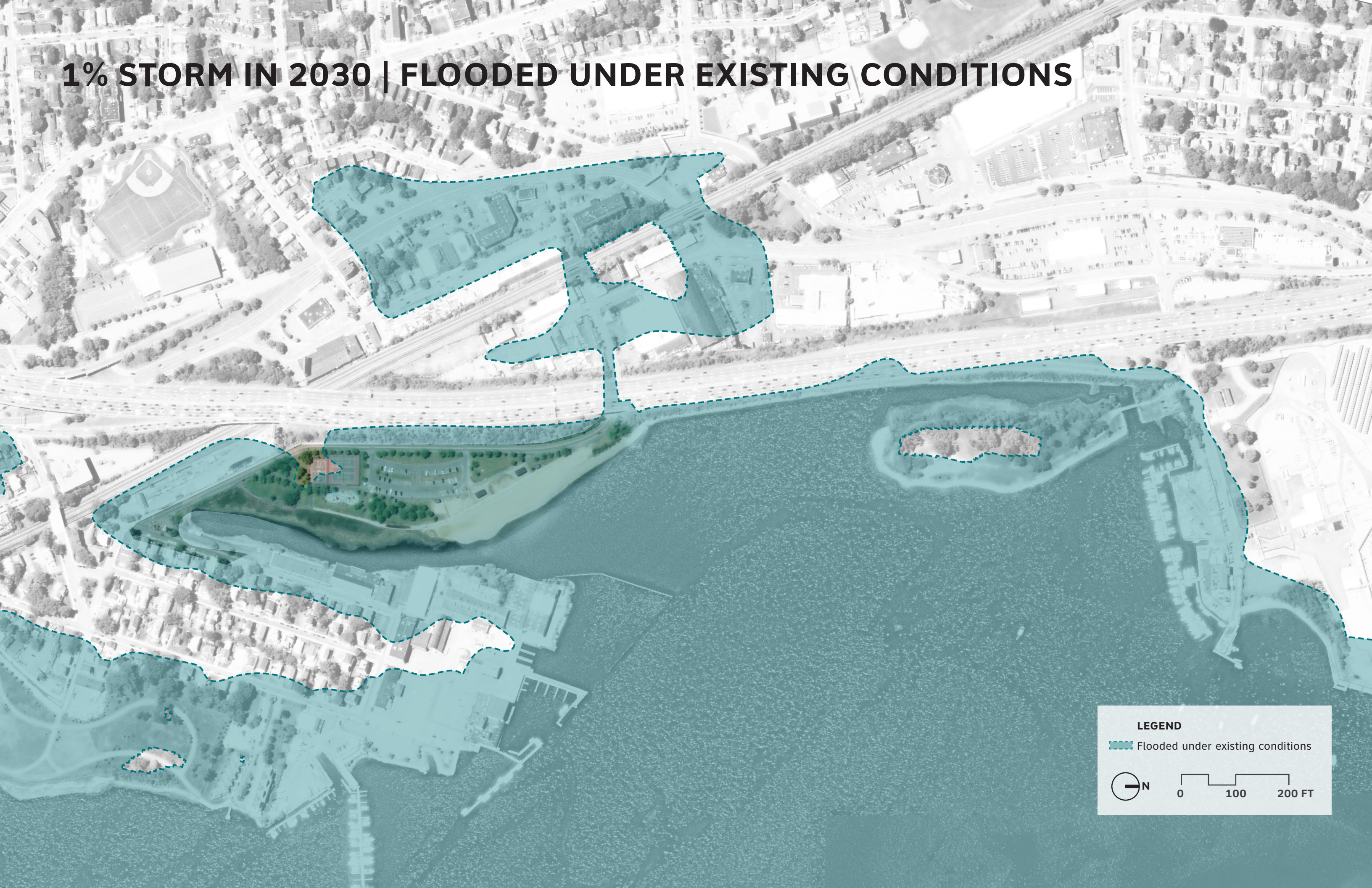
DESIGN FLOOD ELEVATIONS



**Elevations given in NAVD88 can be converted to Boston City Base (BCB) elevation by adding 6.46 feet.*



1% STORM IN 2030 | FLOODED UNDER EXISTING CONDITIONS



LEGEND

Flooded under existing conditions

N


0 100 200 FT


1% STORM IN 2030 | FLOODED UNDER PROPOSED CONDITIONS


INLAND
AREA FLOOD
MITIGATION

NO ADDITIONAL
FLOODING TO
SURROUNDING AREA

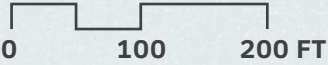
LEGEND

 Flooded under existing conditions

 Flooded under proposed conditions



N



0 100 200 FT

HARBORWALK

(LOOKING NORTH TOWARDS HARBOR)



RE-ALIGNED HARBORWALK

COASTAL PLANTING

RECREATIONAL LAWN

BEACH

BEACHGRASS
STABILIZED DUNES

+14.0

+12.0

+10.0

**Elevations given in NAVD88 can be converted to Boston City Base (BCB) elevation by adding 6.46 feet.*

RECREATIONAL AMENITIES

(LOOKING SOUTH TOWARDS PORT NORFOLK)



*Elevations given in NAVD88 can be converted to Boston City Base (BCB) elevation by adding 6.46 feet.

BIRD'S EYE VIEW



RE-ALIGNED HARBORWALK

PARKING

RECREATIONAL LAWN

COASTAL PLANTINGS

NEPONSET RIVER
GREENWAY EXTENSION

+14.0

+14.0

BEACHGRASS
STABILIZED DUNE

BEACH

REFLECTIVE TREE GROVE

+12.0

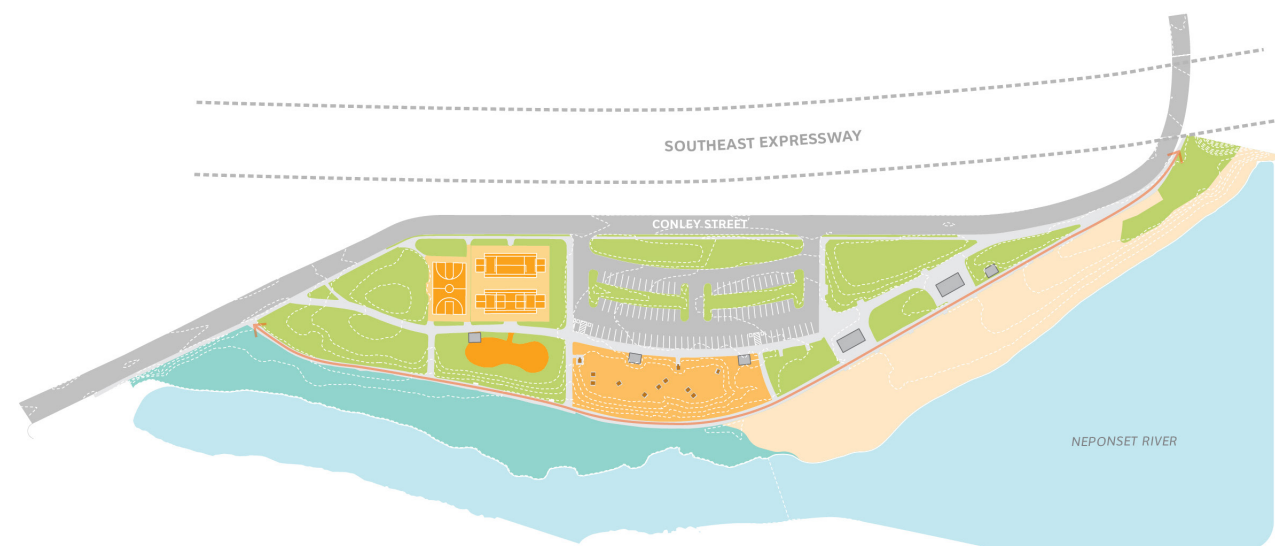
+7.0

PICNIC AREA

+10.0

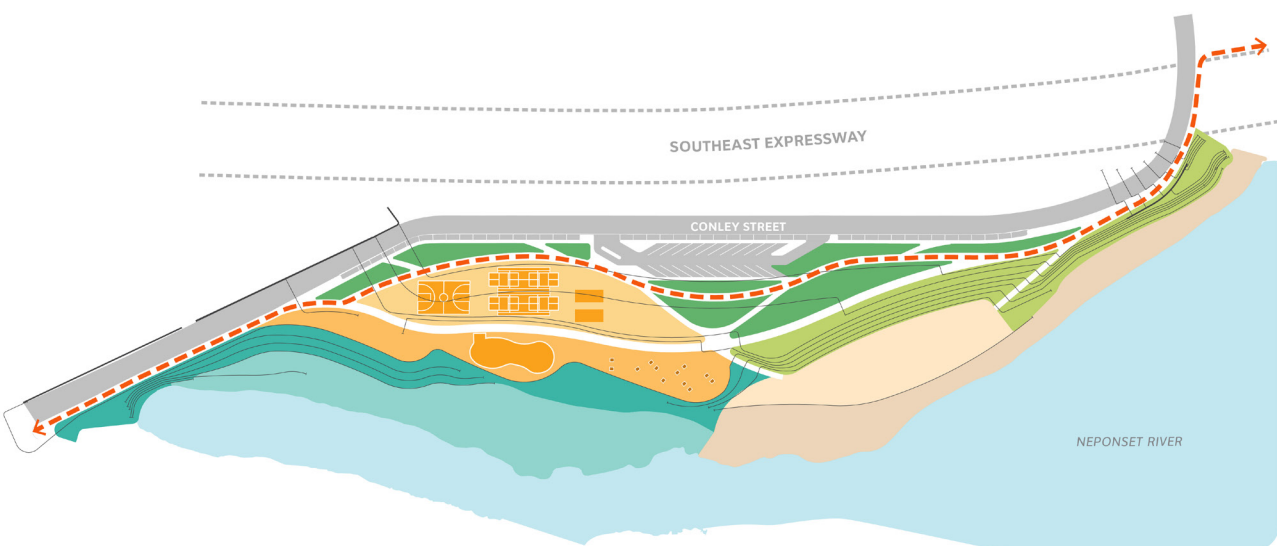
CREEK RESTORATION

PROGRAM COMPARISON



EXISTING

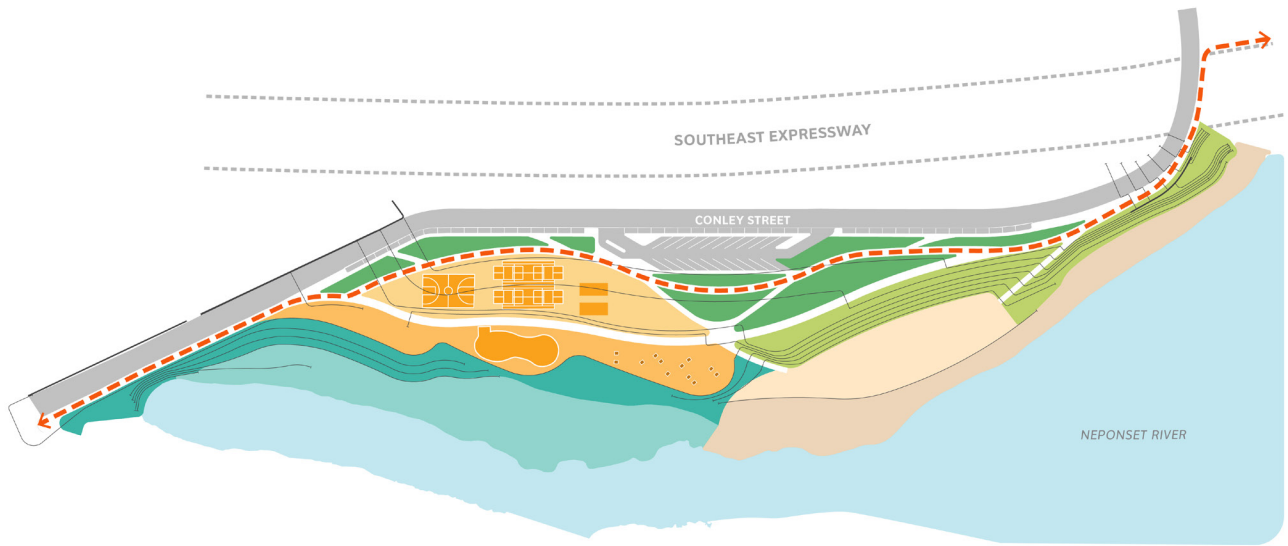
- PLAYGROUND
- BASKETBALL COURT
- 2 TENNIS COURTS
- BEACH
- 2 PICNIC SHELTERS
- 94 PARKING SPOTS



PROPOSED

- PLAYGROUND (EXISTING)
- BASKETBALL COURT
- 2 TENNIS COURTS
- BEACH
- 5 PICNIC SHELTERS
- MAINTAIN 70% EXISTING PARKING
- + FLOOD MITIGATION
- RECREATIONAL LAWN
- 2 ADDITIONAL SPORTS COURTS
- REFLECTIVE TREE GROVE
- CREEK RESTORATION
- COASTAL PLANTINGS

SUMMARY



 EFFECTIVENESS	<ul style="list-style-type: none">• Protects inland neighborhood + DCR’s Morrissey Blvd• Relies on passive protection• Preserves open space programming at Tenean
 FEASIBILITY & MAINTENANCE	<ul style="list-style-type: none">• Less flood related maintenance than today (happening monthly)• Some environmental permitting challenges
 DESIGN LIFE & ADAPTABILITY	<ul style="list-style-type: none">• Elevated berm can be adapted to future sea level rise• Park amenities will adapt for extended future use
 ENVIRONMENTAL & PUBLIC HEALTH BENEFITS	<ul style="list-style-type: none">• Ecological improvements• Salt marsh restoration• Coastal dune and beach
 SOCIAL EQUITY & QUALITY OF LIFE	<ul style="list-style-type: none">• Expands existing recreation and access to open green spaces

*WHAT DO YOU LIKE ABOUT THE
DESIGN?*

*IS THERE ANYTHING ELSE YOU
WOULD LIKE TO SEE?*

QUESTIONS?



**boston planning &
development agency**

NEXT STEPS



**boston planning &
development agency**

THANK YOU!

BPDA PROJECT DIRECTOR
CHRIS BUSCH
CHRIS.BUSCH@BOSTON.GOV

BPDA PROJECT MANAGER
DELANEY MORRIS
DELANEY.MORRIS@BOSTON.GOV



**boston planning &
development agency**

APPENDIX



**boston planning &
development agency**

ENGAGEMENT FOR THE WORKSHOP

- March 9, 2023** BPDA posts workshop to calendar and sends out in an email blast
- March 16, 2023** Ad placed in the Dorchester Reporter for the event
- March 17, 2023** BPDA/Environment staff attend the Dorchester coffee hour to hand out one-pagers/speak with community
- March 23, 2023** Front Page story in the Dorchester Reporter about the project and the event

BPDA resends out the calendar invitation to the event

Dorchester ONS rep tweets out one-pager with workshop information

Dorchester Reporter tweets out story and workshop information

Neponset River Greenway Council tweets out workshop information
- March 24, 2023** Environment Department posts on Instagram workshop information
- March 27, 2023** Neponset River tweets out workshop information
- April 15, 2023** One Boston Day Beach Cleanup at Tenean Beach
- May 11, 2023** Ad placed in the Dorchester Reporter for the event
- May 12, 2023** BPDA/Environment staff attend the Dorchester Mayor coffee hour to hand out one-pagers/speak with community
- May 17, 2023** BPDA resends out the calendar invitation to the event

Various other social media engagements from organizations / community members

Various stakeholders were engaged one on one to extend the invitation to participate at the workshop

TECHNICAL CONSIDERATIONS | DEFINITIONS

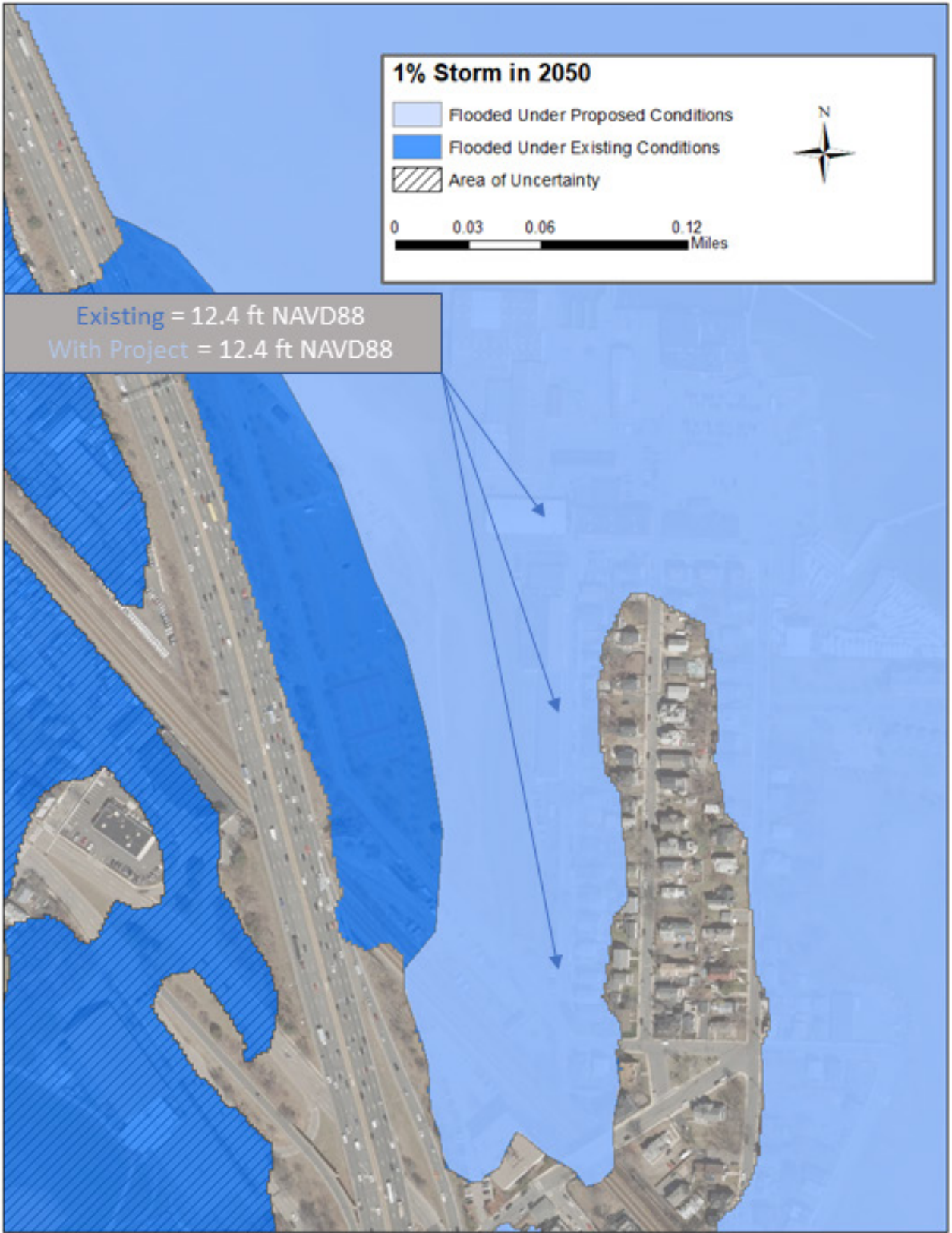
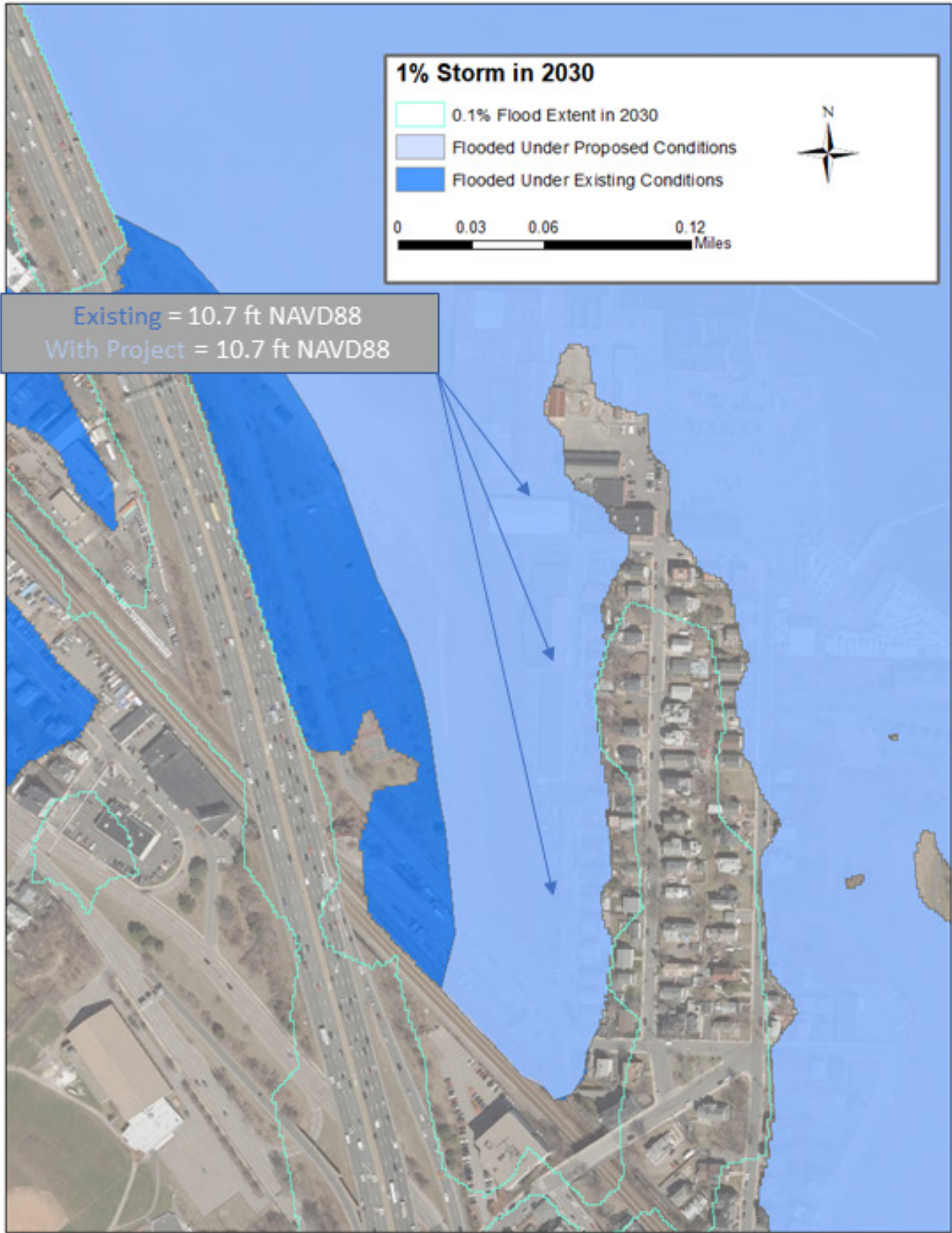
Any future project will go through regulatory review, and will subject to comply with the following:

- [Wetlands Protection Act](#)
- [Local Wetlands Ordinance](#)
- [Chapter 91 Boundary](#)
- [Area of Critical Environmental Concern \(ACEC\) and Resource Management Plan](#)

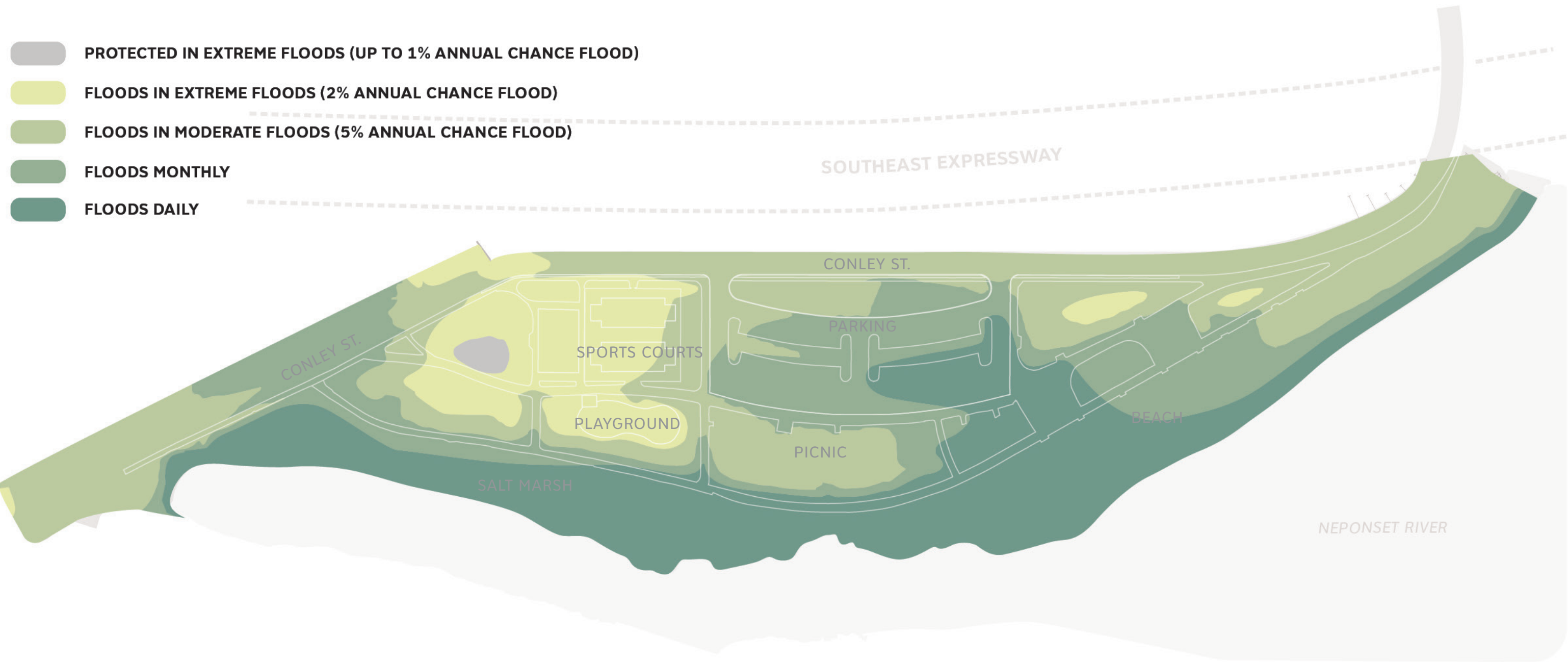
TECHNICAL CONSIDERATIONS | ADDITIONAL COASTAL MODELING



TECHNICAL CONSIDERATIONS | ADDITIONAL COASTAL MODELING

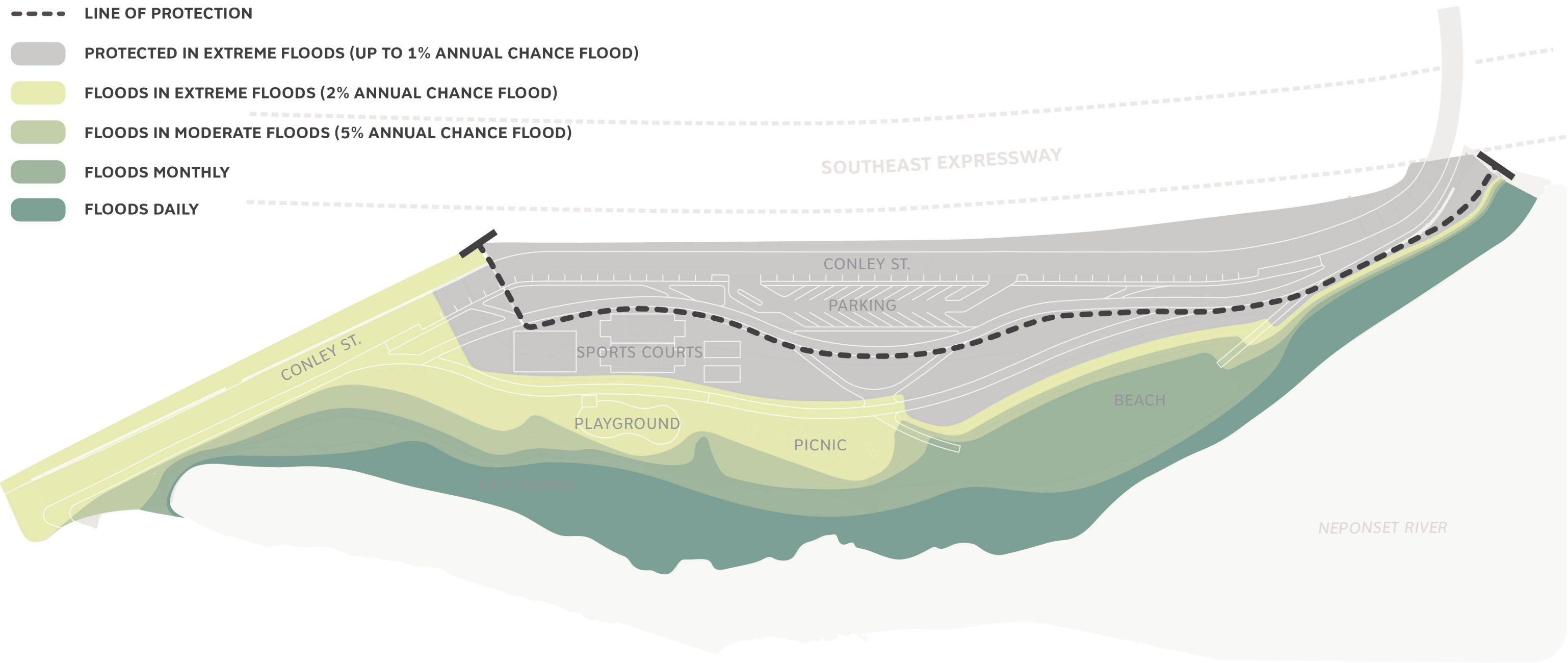


SITE PERFORMANCE (2030) | EXISTING CONDITIONS



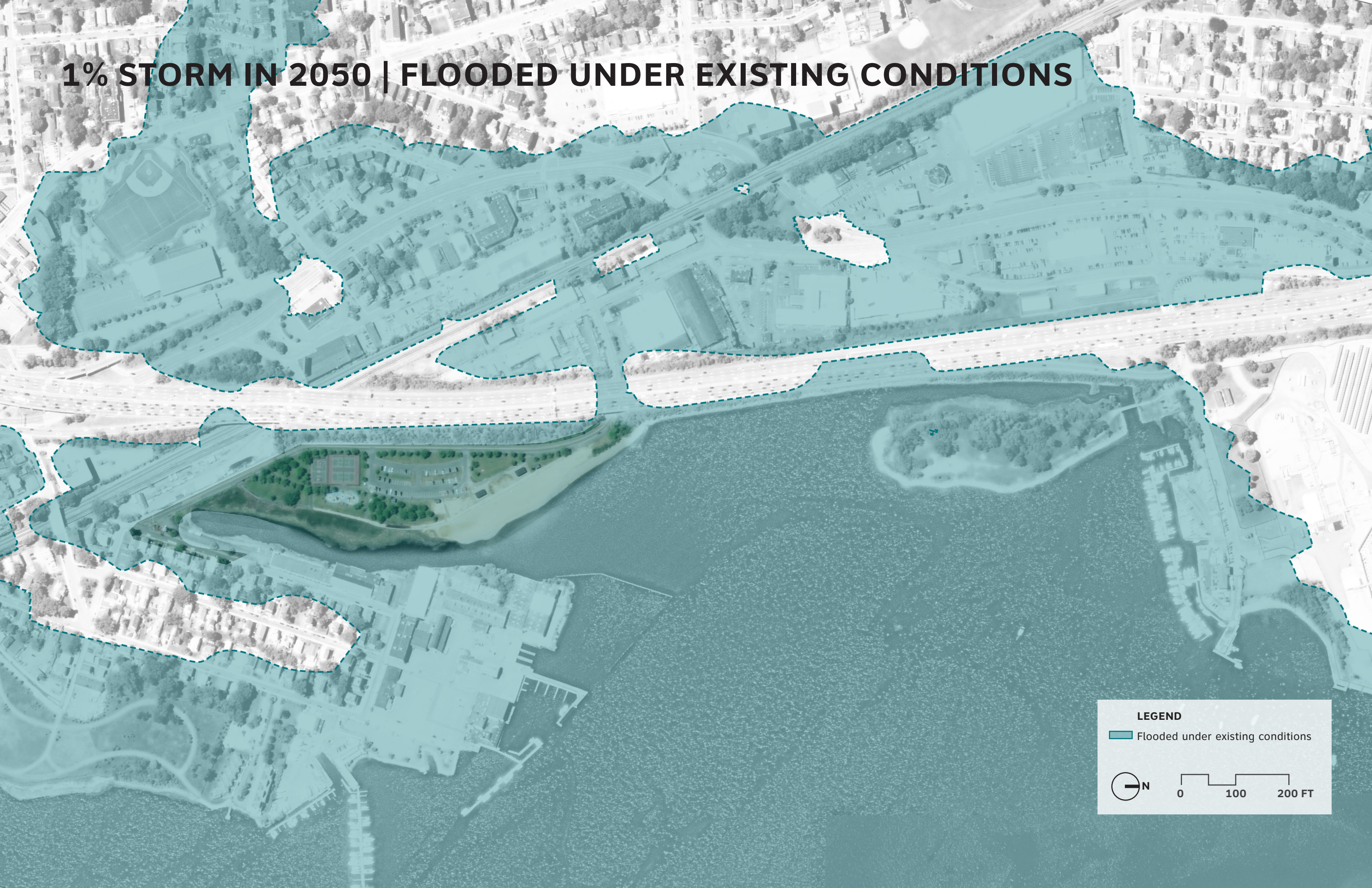
***1% ANNUAL CHANCE FLOOD, ALSO REFERRED TO AS THE "100-YEAR FLOOD", IS THE 1% PROBABILITY OF A STORM EVENT OCCURING IN ANY GIVEN YEAR.**

SITE PERFORMANCE (2030) | PROPOSED CONDITIONS





***1% ANNUAL CHANCE FLOOD, ALSO REFERRED TO AS THE "100-YEAR FLOOD", IS THE 1% PROBABILITY OF A STORM EVENT OCCURING IN ANY GIVEN YEAR.**

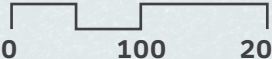
1% STORM IN 2050 | FLOODED UNDER EXISTING CONDITIONS



LEGEND

 Flooded under existing conditions

 N

 0 100 200 FT

1% STORM IN 2050 | FLOODED UNDER PROPOSED CONDITIONS



LEGEND

- Flooded under existing conditions
- Flooded under proposed conditions
- Area of uncertainty

