

WELCOME!

EAST BOSTON RESILIENT WATERFRONT PROJECT COMMUNITY WORKSHOP #2

June 8th, 2021



**boston planning &
development agency**

Weston & SampsonSM

IN ASSOCIATION WITH:
STOSS LANDSCAPE URBANISM
GEI CONSULTANTS
WOODS HOLE GROUP



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Woods Hole Group

GEI

Agenda

Introduction and Climate Ready Boston	5 minutes
Recap of Workshop #1	15 minutes
What We Heard From You	10 minutes
Design Refinements	35 minutes
Next Steps	5 minutes
Questions & Answers	20 minutes

Materials & Contacts

For information, materials, updates please visit the “East Boston Resilient Waterfront Project” webpage: <http://www.bostonplans.org/planning/planning-initiatives/east-boston-resilient-waterfront-project>

Comments may be emailed to joe.christo@boston.gov or, chris.busch@boston.gov

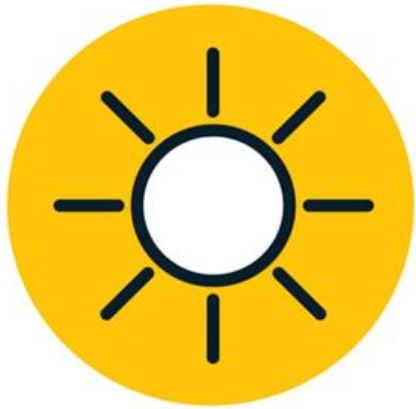
INTRODUCTION AND CLIMATE READY HISTORY

Climate Ready Boston is an initiative to develop resilient solutions to prepare Boston for climate change.



CLIMATE READY BOSTON

**EXTREME
TEMPERATURES**



HEAT

**EXTREME
PRECIPITATION**



**STORMWATER
FLOODING**

SEA LEVEL RISE

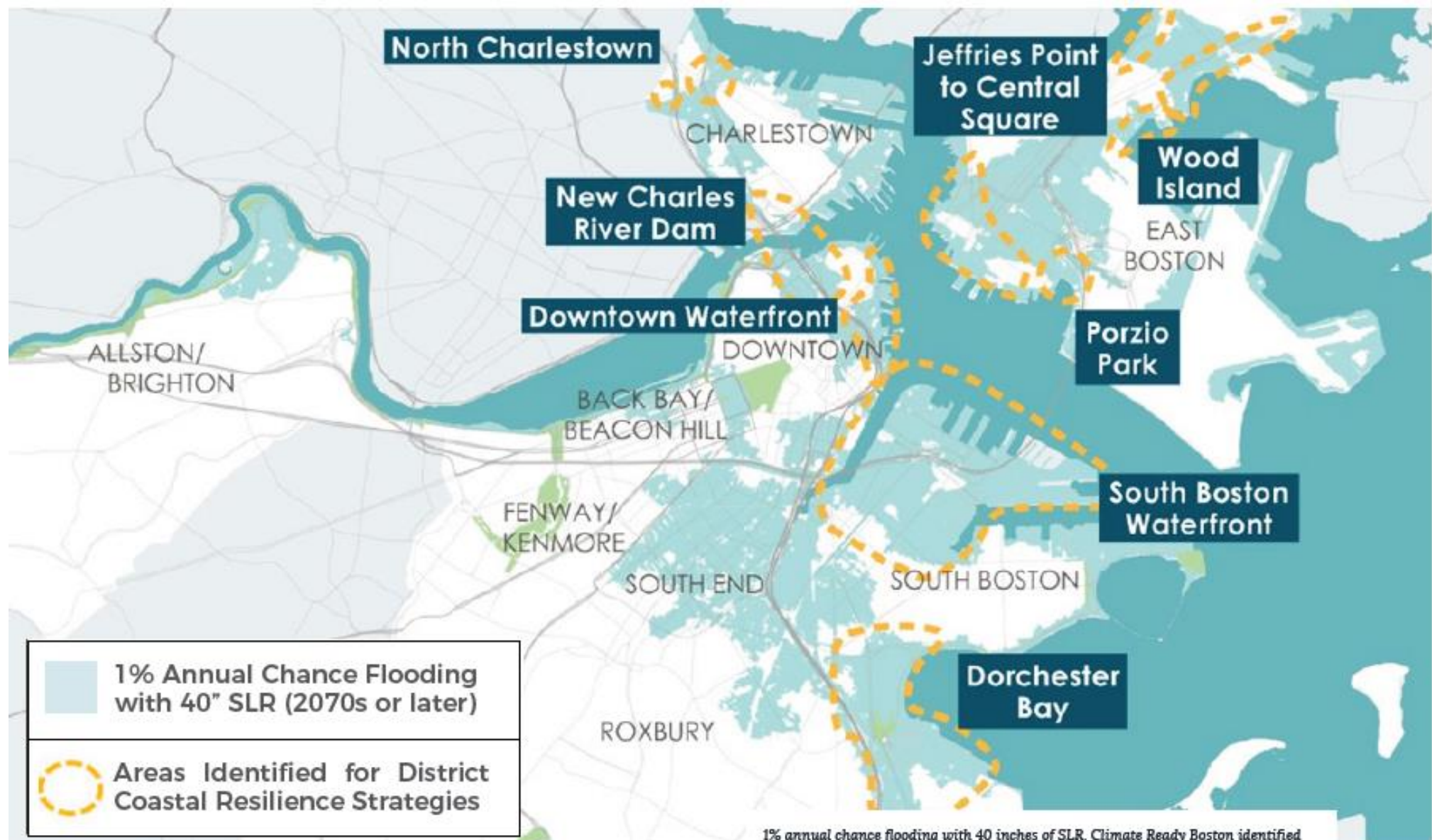


**COASTAL & RIVERINE
FLOODING**

**COASTAL
STORMS**



DISTRICT-SCALE FLOOD PROTECTION



1% annual chance flooding with 40 inches of SLR. Climate Ready Boston identified the need for district-scale flood protection strategies in Charlestown, East Boston, South Boston, Downtown, and Dorchester. Source: Climate Ready Boston

IDENTIFICATION OF FLOOD PATHWAYS



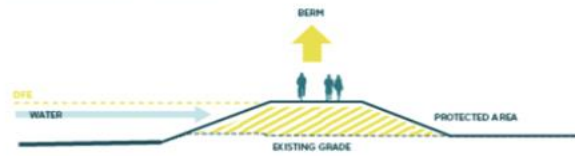
FLOOD PROTECTION DESIGN SOLUTIONS

Coastal Resilience Design Solutions Evaluated

ADAPT TO SEA-LEVEL RISE **A**
 PROTECT AGAINST STORM SURGE **P**
 MINIMIZE WAVE ACTION AND PREVENT EROSION **M**
 RETREAT **R**

A P

LANDSCAPE BERM



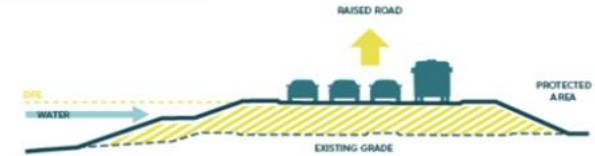
A P

RAISED HARBORWALK



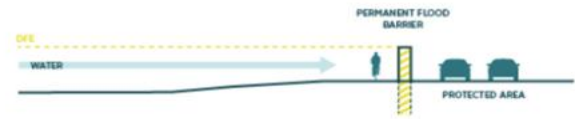
A P

RAISED ROADWAY



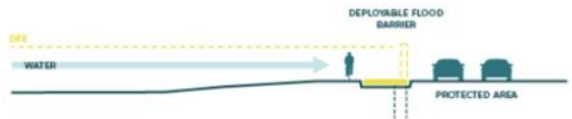
P

FLOODWALL



P

DEPLOYABLE BARRIER



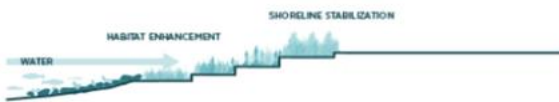
A P

TIDE GATE



A M

NATURAL AND NATURE-BASED SOLUTIONS



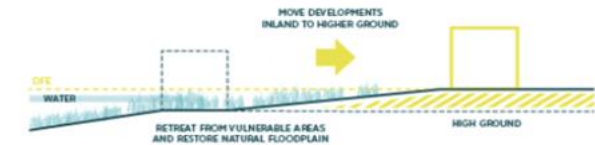
A P

BUILDING-LEVEL ADAPTATION



R

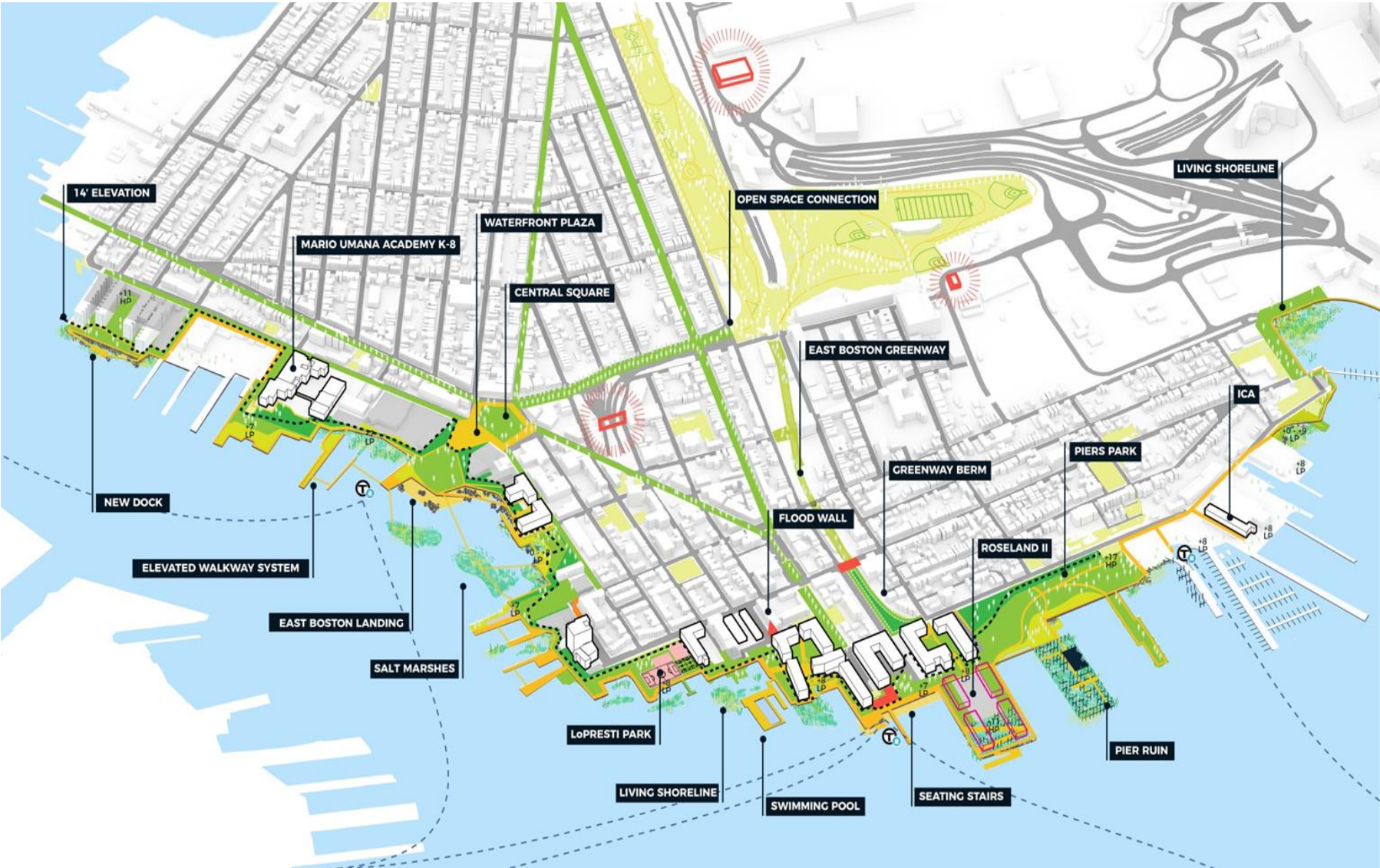
STRATEGIC ACQUISITION OR STRATEGIC RETREAT



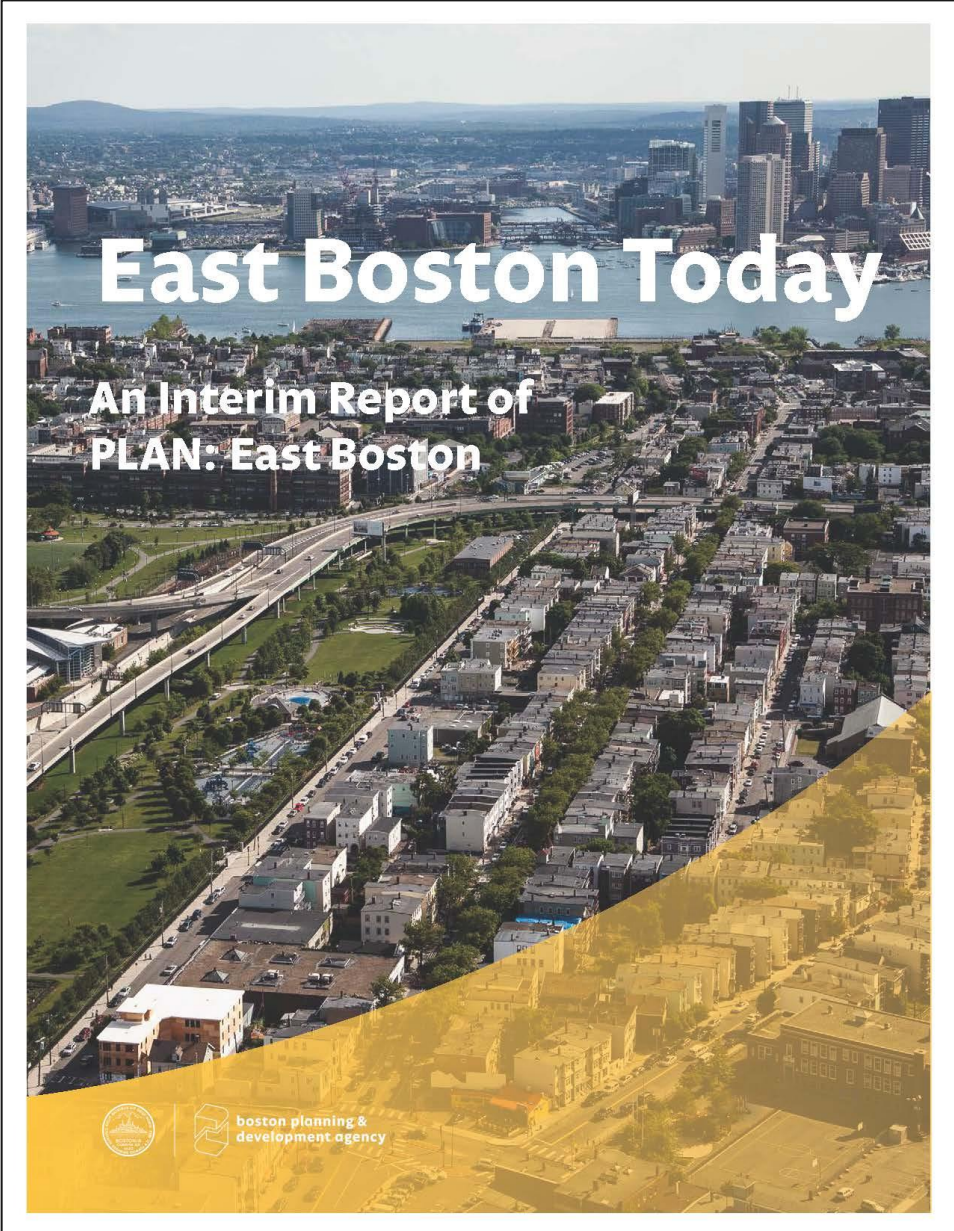
SHORT TERM ACTIONS



LONG TERM VISION



COORDINATING ONGOING EFFORTS



CITY of BOSTON

Coastal Resilience Solutions for East Boston and Charlestown (Phase II)

**Task 1 Memo: Review & Synthesis of Existing
Information**

February 2, 2021

 **ARCADIS**

SASAKI

**WOODS HOLE
GROUP**

NOAH

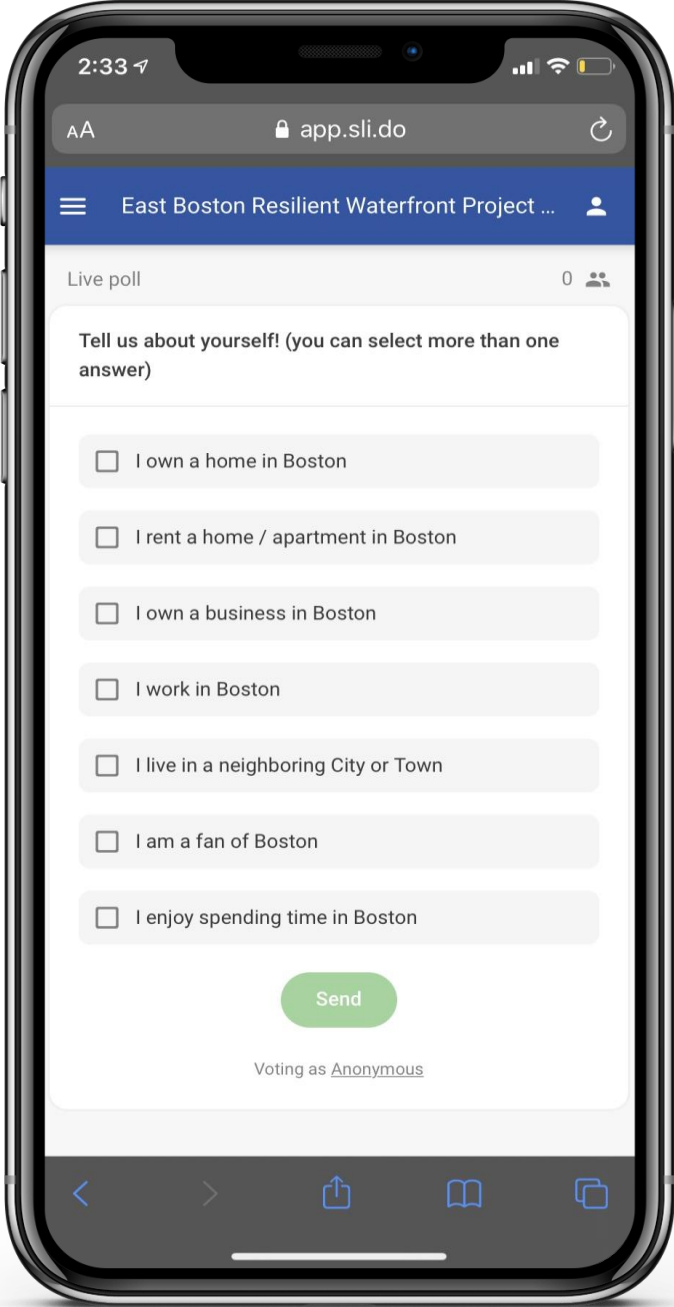
one architecture

Using Slido



Scan the QR Code,
or
Open a web browser
Type in slido.com
Enter code: **eastie**

Joining as a participant? #



Test it out by responding to our first Slido poll!


slido

Tell us about yourself! (you can select more than one answer)

 Start presenting to display the poll results on this slide.

slido

Have you attended Climate Ready East Boston events in the past?

 Start presenting to display the poll results on this slide.

slido

Did you attend Workshop #1 in May?

 Start presenting to display the poll results on this slide.

RECAP OF WORKSHOP #1

- EXISTING CONDITIONS
- KEY TAKE-AWAYS FOR DESIGN
- EARLY DESIGN SCENARIOS



EXISTING CONDITIONS

TOPOGRAPHY

Carlton Wharf

Site

Lowest Elevation = 16.5 ft-BCB

Elevation Range = 16.5 – 18 ft-BCB

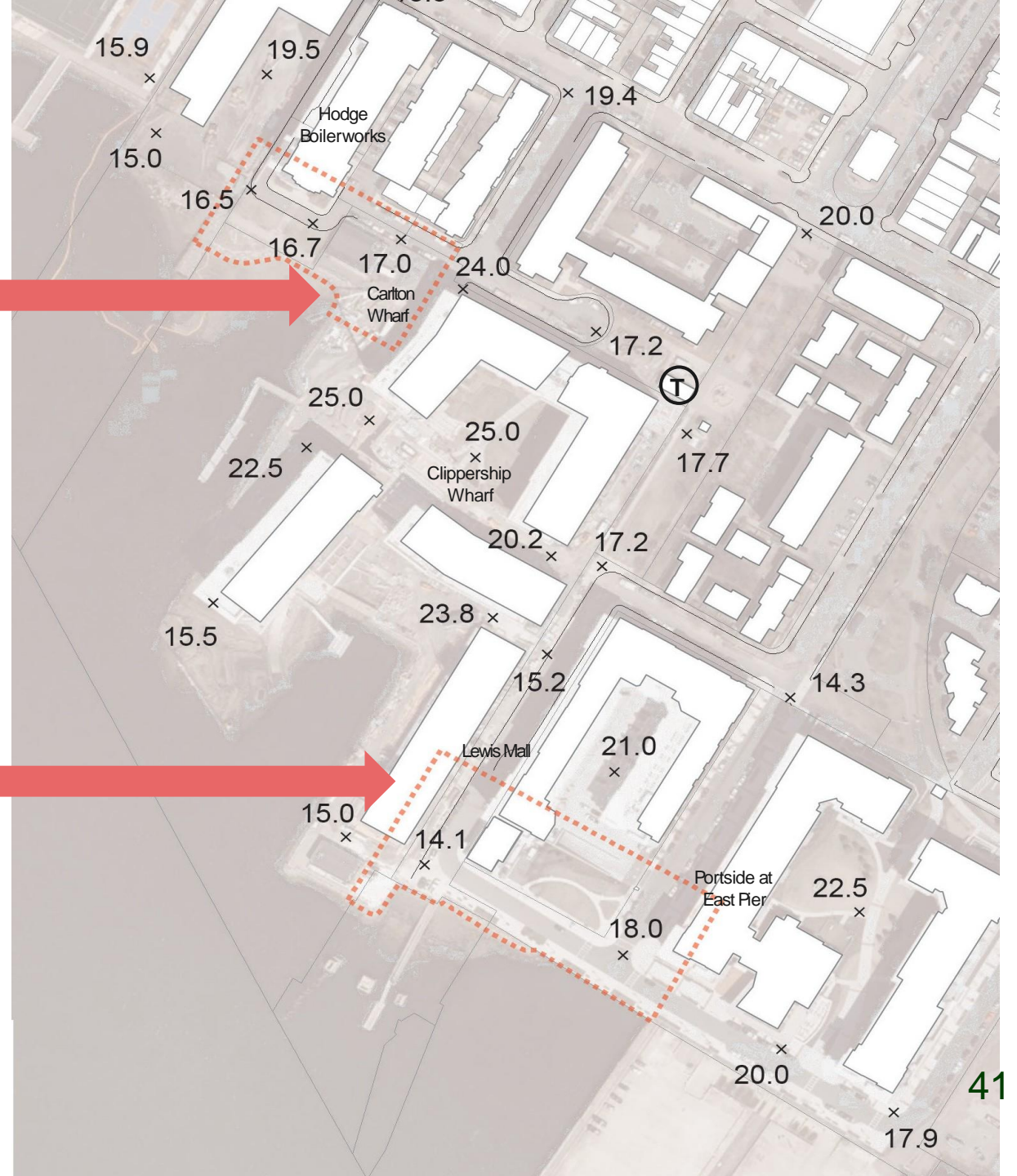
Lewis Mall

Site

Lowest Elevation = 14.1 ft-BCB

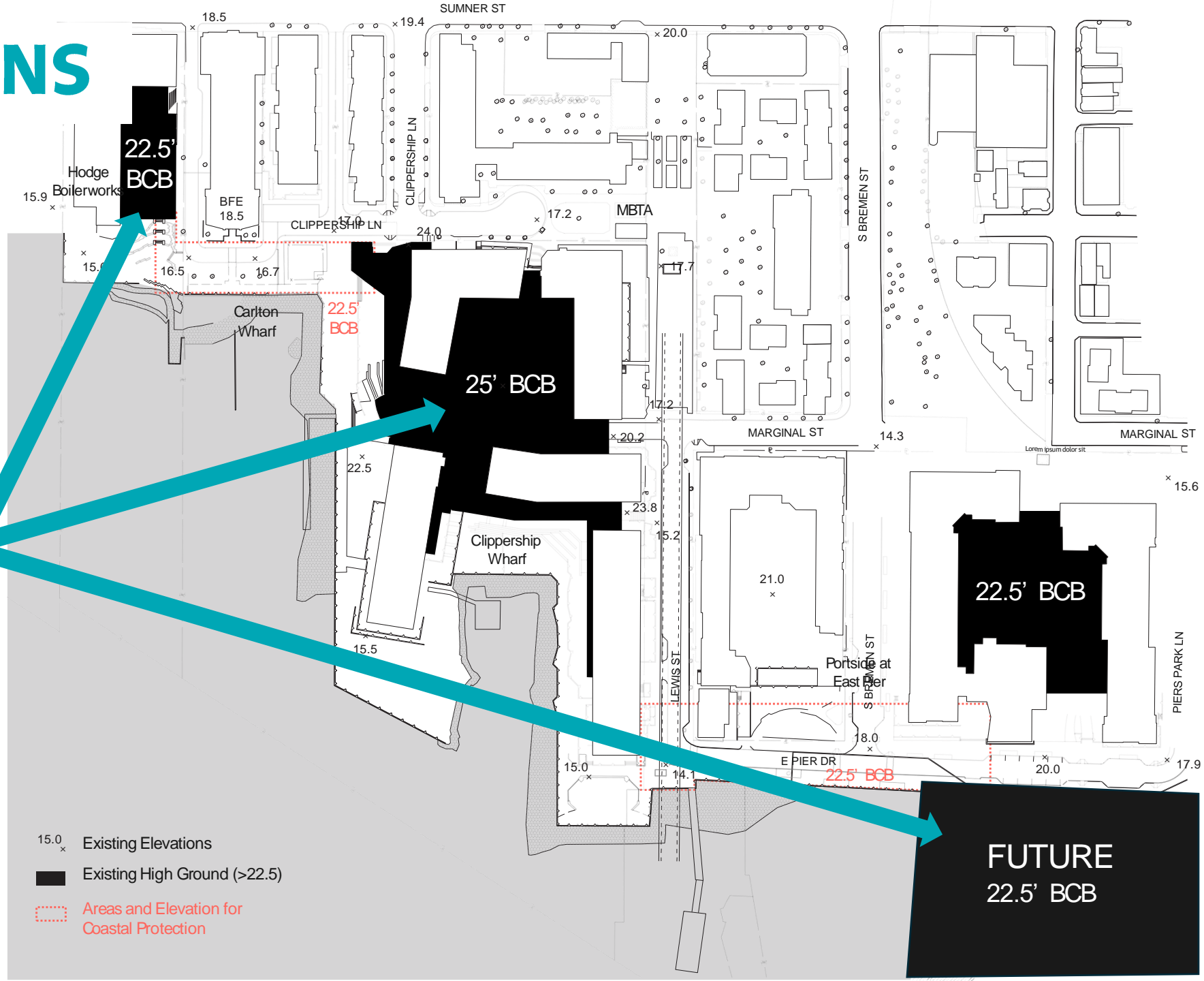
Elevation Range = 14.1 – 20 ft-BCB

Boston City Base Datum - BCB



CONSIDERATIONS

ELEVATIONS (TIE -
INS)



- 15.0 x Existing Elevations
- Existing High Ground (>22.5)
- Areas and Elevation for Coastal Protection

FUTURE
22.5' BCB


EXISTING CONDITIONS

BIG CONSIDERATIONS


 Adjacent property ownership

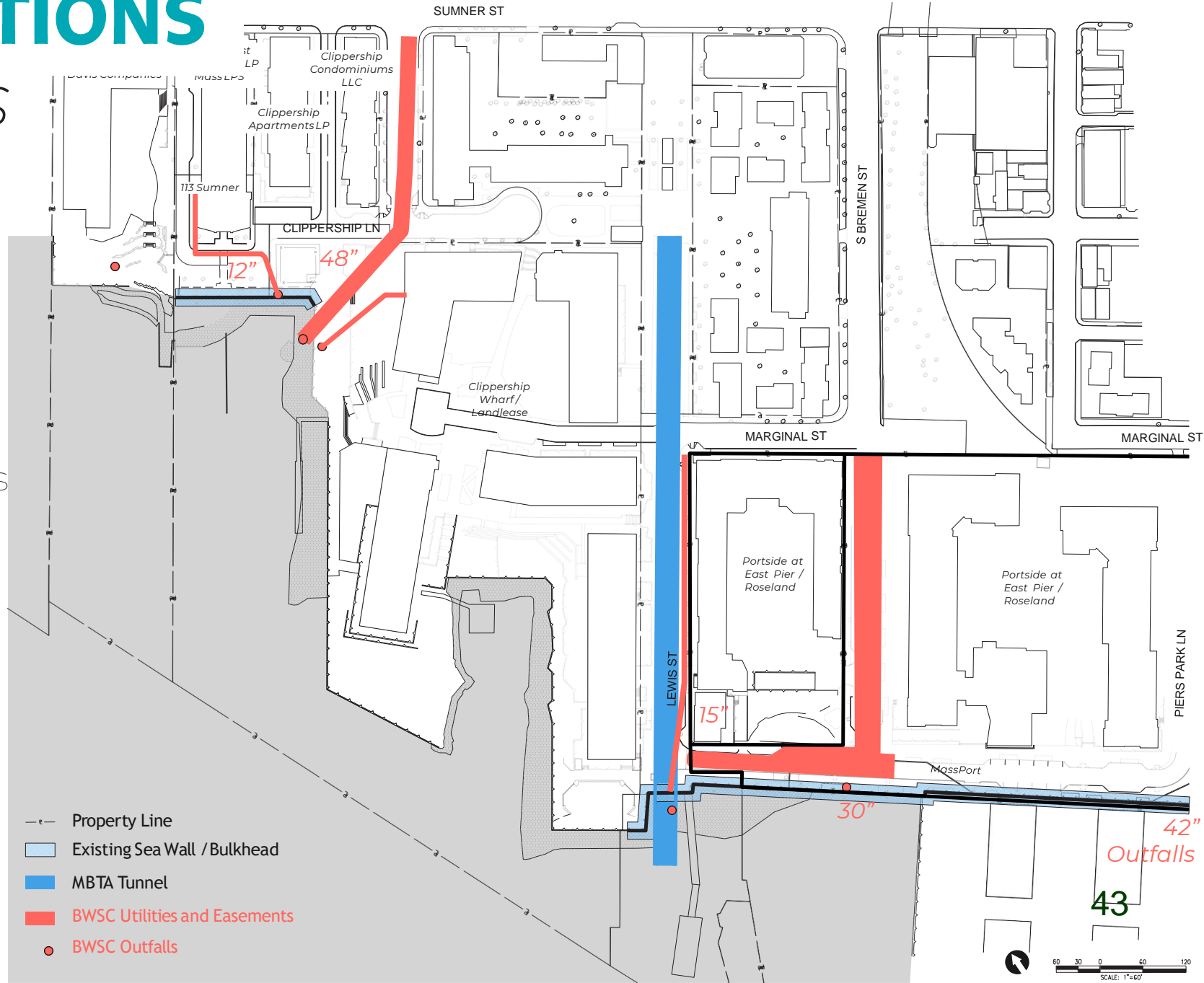
 MBTA tunnel runs under Lewis Mall

 BWSC easements and outfalls

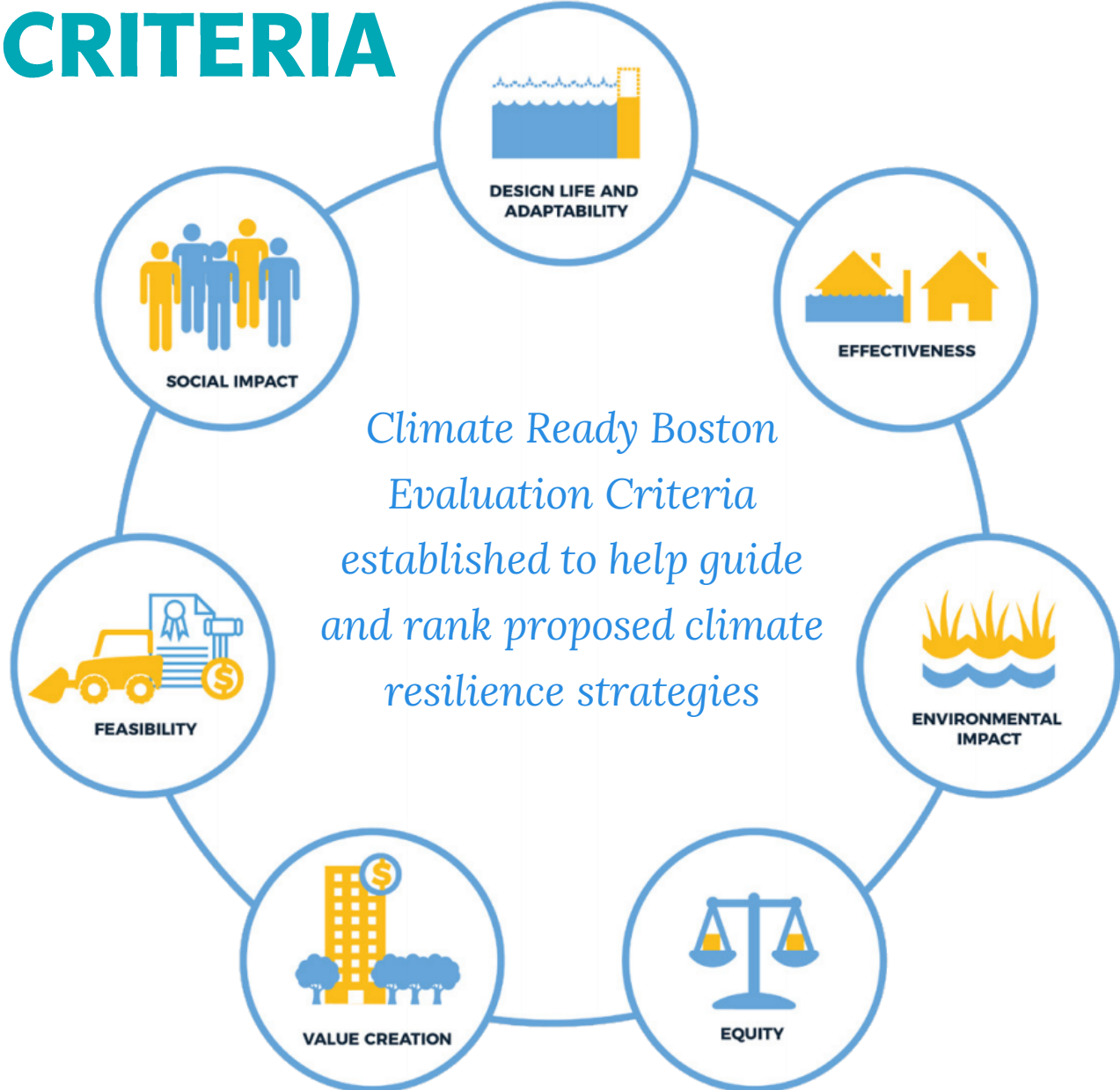
 Condition of the existing seawall

 Environmental conditions

 Water Taxi service at Lewis Mall

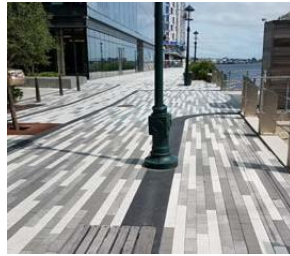
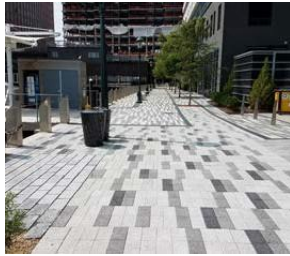
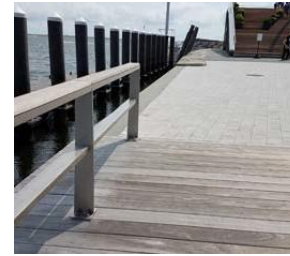
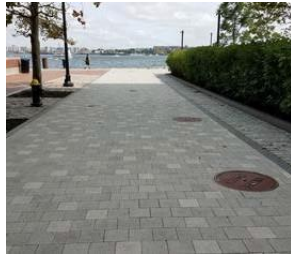
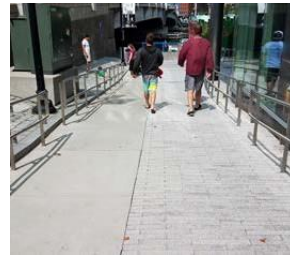
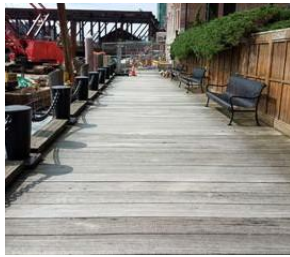


CRB EVALUATION CRITERIA



CATEGORY	CRITERIA
EFFECTIVENESS	<ul style="list-style-type: none"> Maximum level of protection (% annual chance / SLR scenario) Reduction in flood extent Avoided damage and loss Residents protected Critical assets protected
FEASIBILITY	<ul style="list-style-type: none"> Stakeholder acceptance Constructability Permitting Affordability: Cost of Construction + Cost of Maintenance Replicability
DESIGN LIFE + ADAPTABILITY	<ul style="list-style-type: none"> Design Life Performance Horizon Adaptability/Flexibility Phase-ability and Time to Implementation Maintenance Requirements
SOCIAL IMPACT	<ul style="list-style-type: none"> Recreational Cultural Aesthetic
EQUITY	<ul style="list-style-type: none"> New and Equitable Access to Waterfront Additional Benefits for Vulnerable Populations Community Partnerships Protection of Affordable Housing over the Long Term
VALUE CREATION	<ul style="list-style-type: none"> New Value Created on Sites or Adjacent Sites Capacity to Catalyze Future Funding and Investment
ENVIRONMENTAL IMPACT	<ul style="list-style-type: none"> Water and Air Quality Habitat Value Human Health Benefits Mitigation of Other Climate Hazards (Heat, Stormwater)

BOSTON'S HARBORWALK



RECAP OF WORKSHOP #1

- EXISTING CONDITIONS
- KEY TAKE-AWAYS FOR DESIGN
- EARLY DESIGN SCENARIOS




DESIGN GOALS CHECKLIST

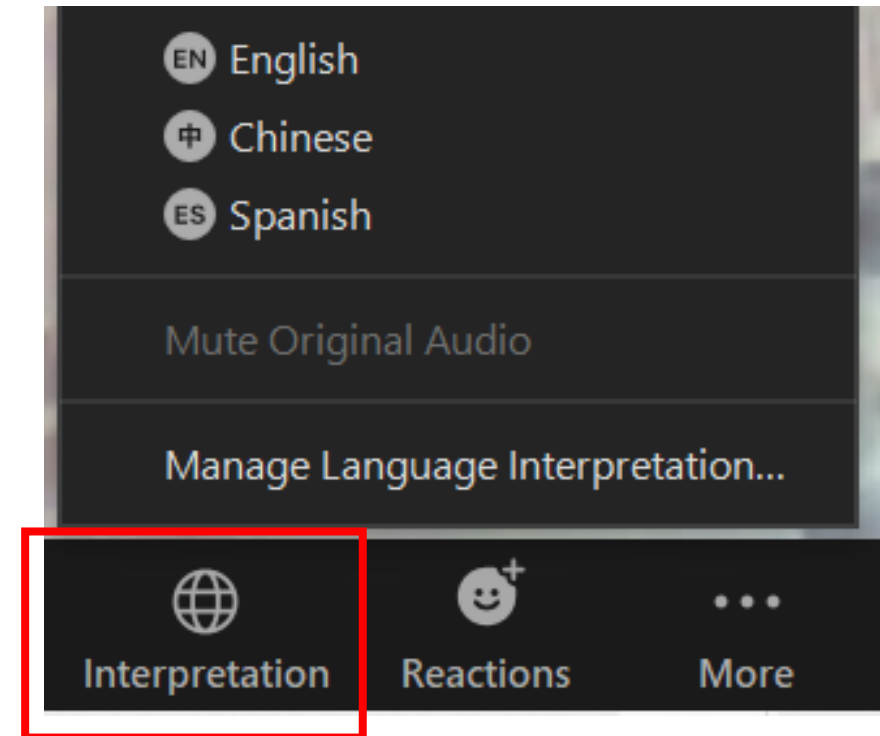
- Passive protection**– to design flood elevation
- Maintain equitable access**– to existing structures & waterfront
- Placemaking**– to meet Plan East Boston’s waterfront goals
- Existing Infrastructure**– minimize impact / changes and maintain access

Develop **buildable** solutions which meet resiliency goals despite site constraints

Need Interpretation?

La interpretación al español está disponible para esta reunión. Por favor, seleccione su idioma preferido al final de la pantalla haciendo clic en el símbolo del globo.

¿Desea hacer  comentario? Haga clic en el ícono de Chat y escriba su comentario o pregunta.



RECAP OF WORKSHOP #1

- EXISTING CONDITIONS
- KEY TAKE-AWAYS FOR DESIGN
- EARLY DESIGN SCENARIOS



LEWIS MALL AND CARLTON WHARF

EAST BOSTON GREENWAY

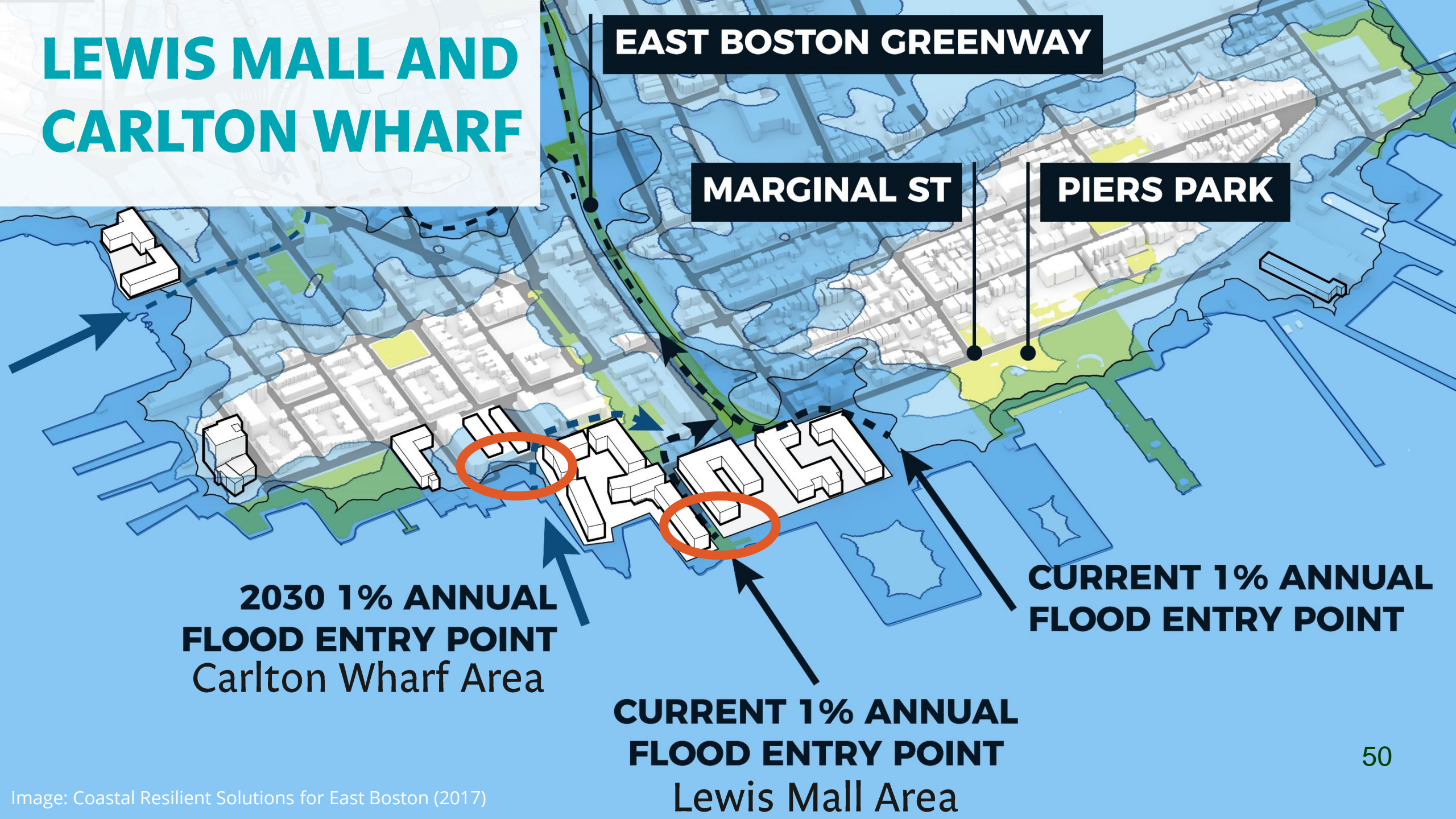
MARGINAL ST

PIERS PARK

**2030 1% ANNUAL
FLOOD ENTRY POINT
Carlton Wharf Area**

**CURRENT 1% ANNUAL
FLOOD ENTRY POINT**

**CURRENT 1% ANNUAL
FLOOD ENTRY POINT
Lewis Mall Area**



LEWIS MALL



Scenario 1: Harborwalk Plaza

Lewis Mall



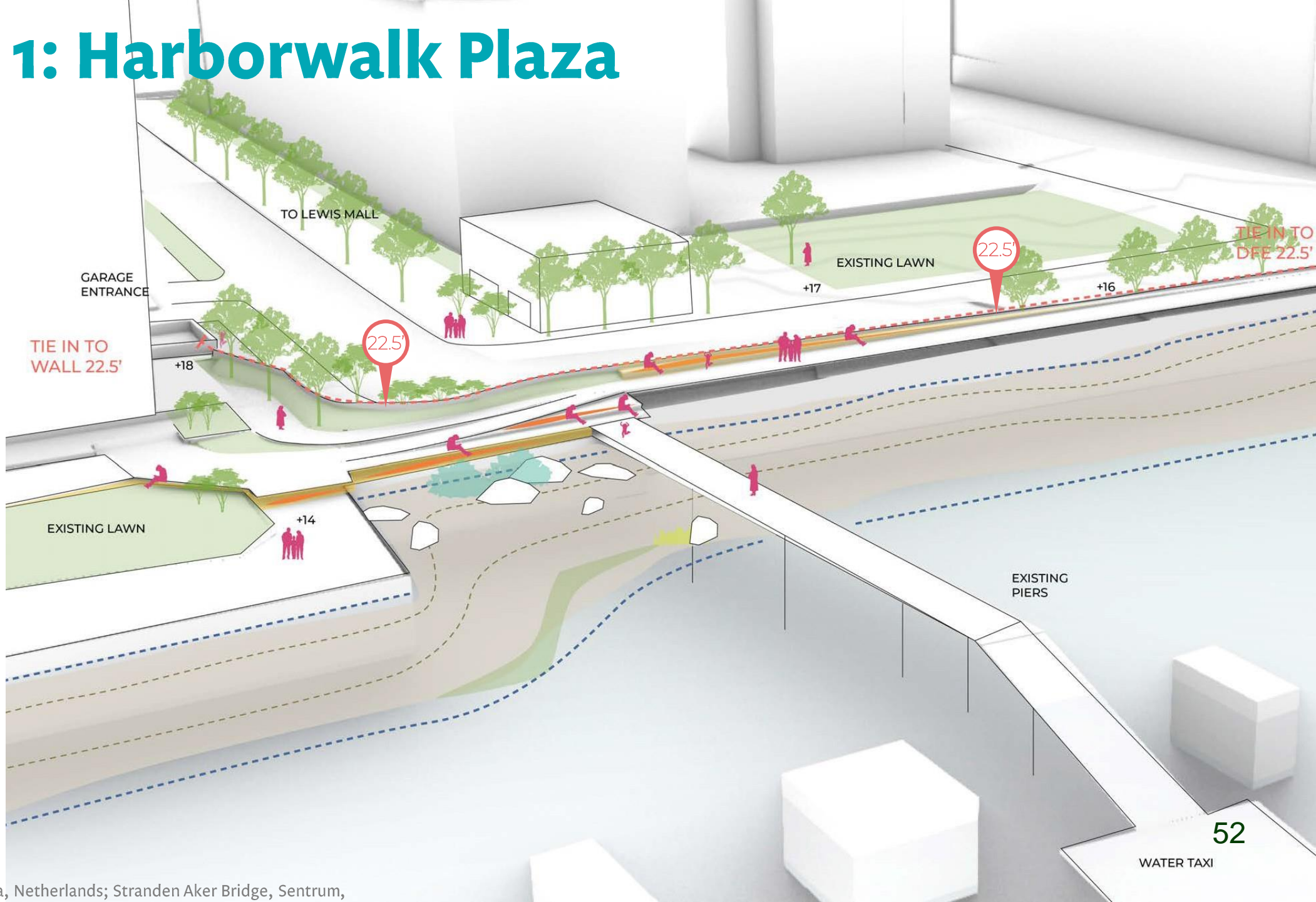
DECK



TERRACE



WATERFRONT SEAT



Scenario 2: Lewis Landing

Lewis Mall



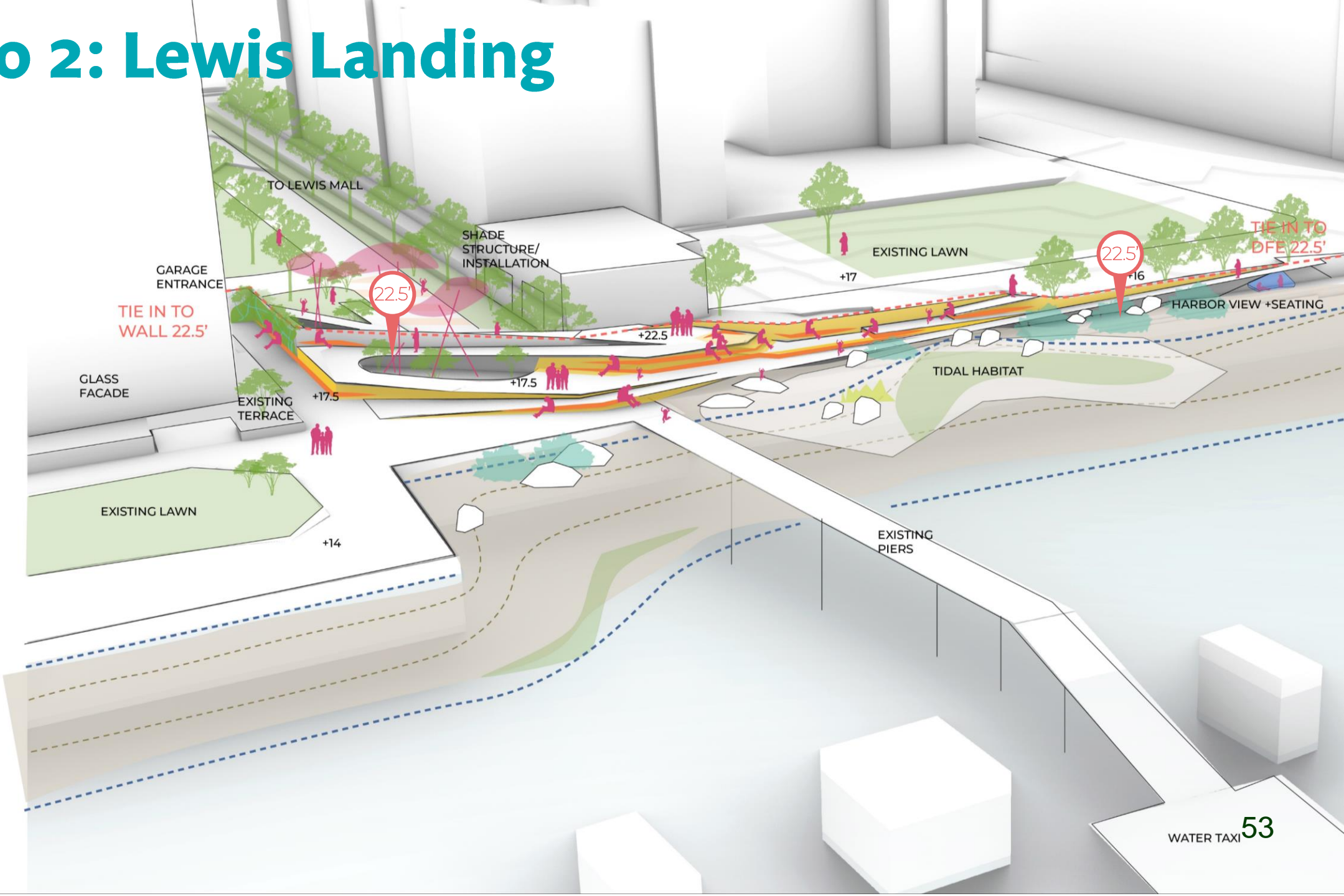
DECK + SEATING



SHADE STRUCTURE



VIEW SPOT + SEATING



WHAT WE HEARD FROM YOU ABOUT LEWIS MALL



What do you like most about this design? (workshop 1 participants)

VIEWING SPOTS & SEATING



50%

Google

GREEN TERRACES



47%

Irlands

DECK & PLAZAS

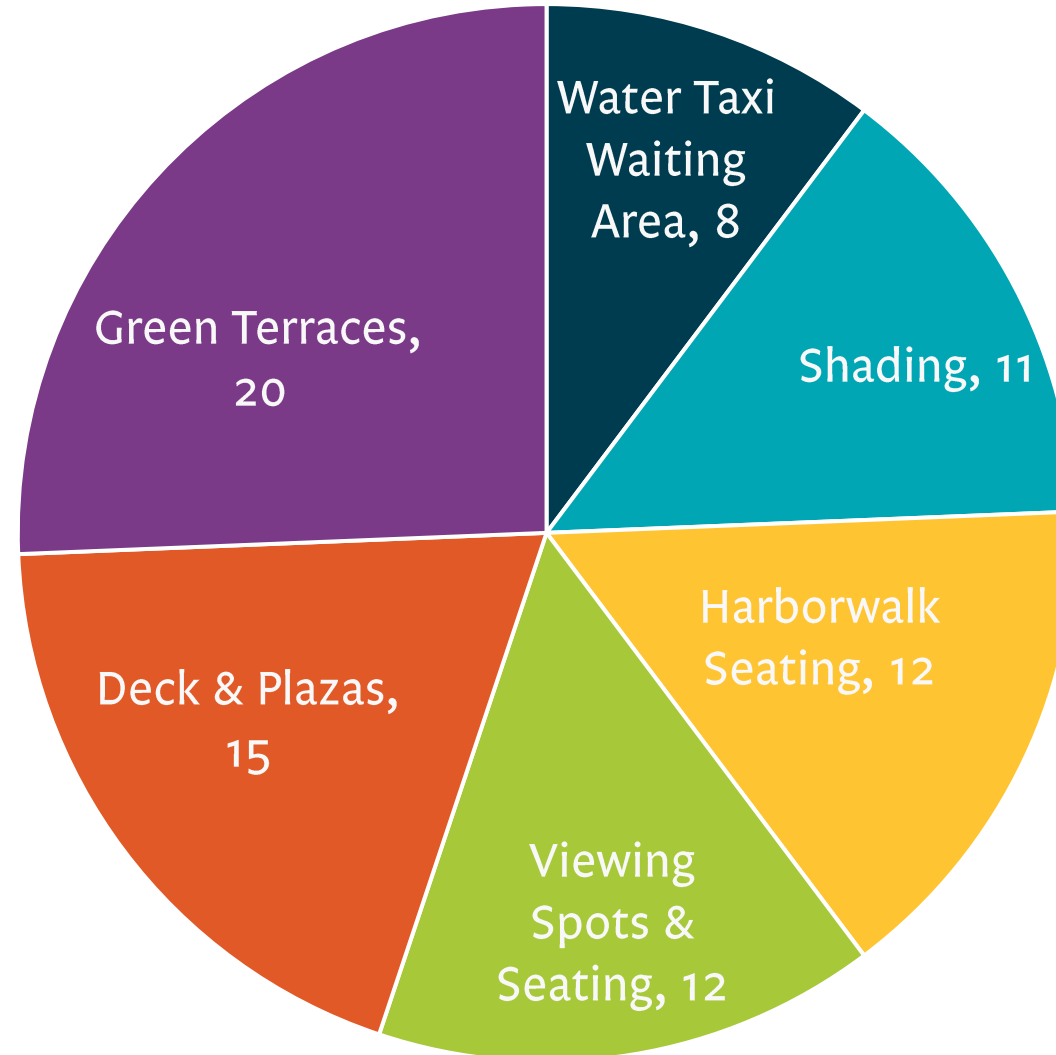


64%

Stranden Aker Bridge, Sentrum, Norway

Harborwalk Seating- 28%
Shading- 25%
Water Taxi Waiting Area- 18%

What do you like most about this design? (Community Survey)



Reiterated
Themes:
WATER
NATURE
FERRY
ART

Beer garden
Exercise equipment
More trees
Trees
floating wetlands
Green space
Small performance venue
Equity
tot lots
Ferry Service
Habitat space
Bike lanes
pollinator gardens
swimming area
Public art
dog park
More art
History
Moorings
Gardens
options
beach
water element
kayak/canoe dockage
wheelchair access
Space for work
Regular ferry service to downtown
continuity
urban wilds
nature based solutions
Shipbuilding history
Something for the community
Picnic tables
SWIMMING POOL

Living Shoreline

ADJACENT PROPERTY OWNER FEEDBACK

PRIORITIES

- Site access for Clippership's retail space
- Accessibility of access to the water taxi
- Add greenery

CONCERNS

- Ease of snow removal
- Not enough lighting
- Maintenance

CARLTON WHARF



Scenario 1: Green Spaces

Carlton Wharf



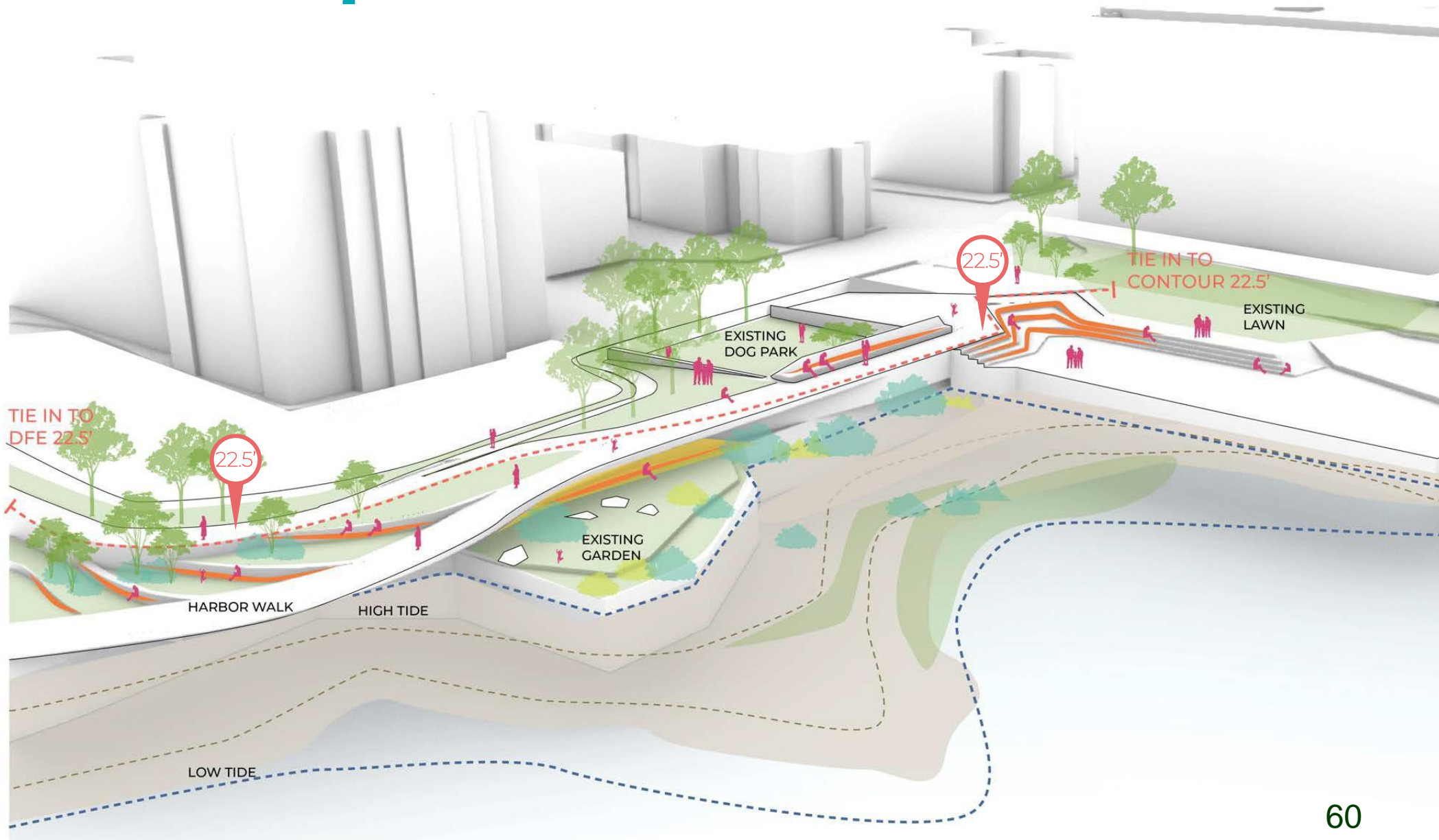
TERRACE+ SEATING



TERRACE+LANDFORM



HARBOR WALK



Scenario 2: Expanded Decks

Carlton Wharf



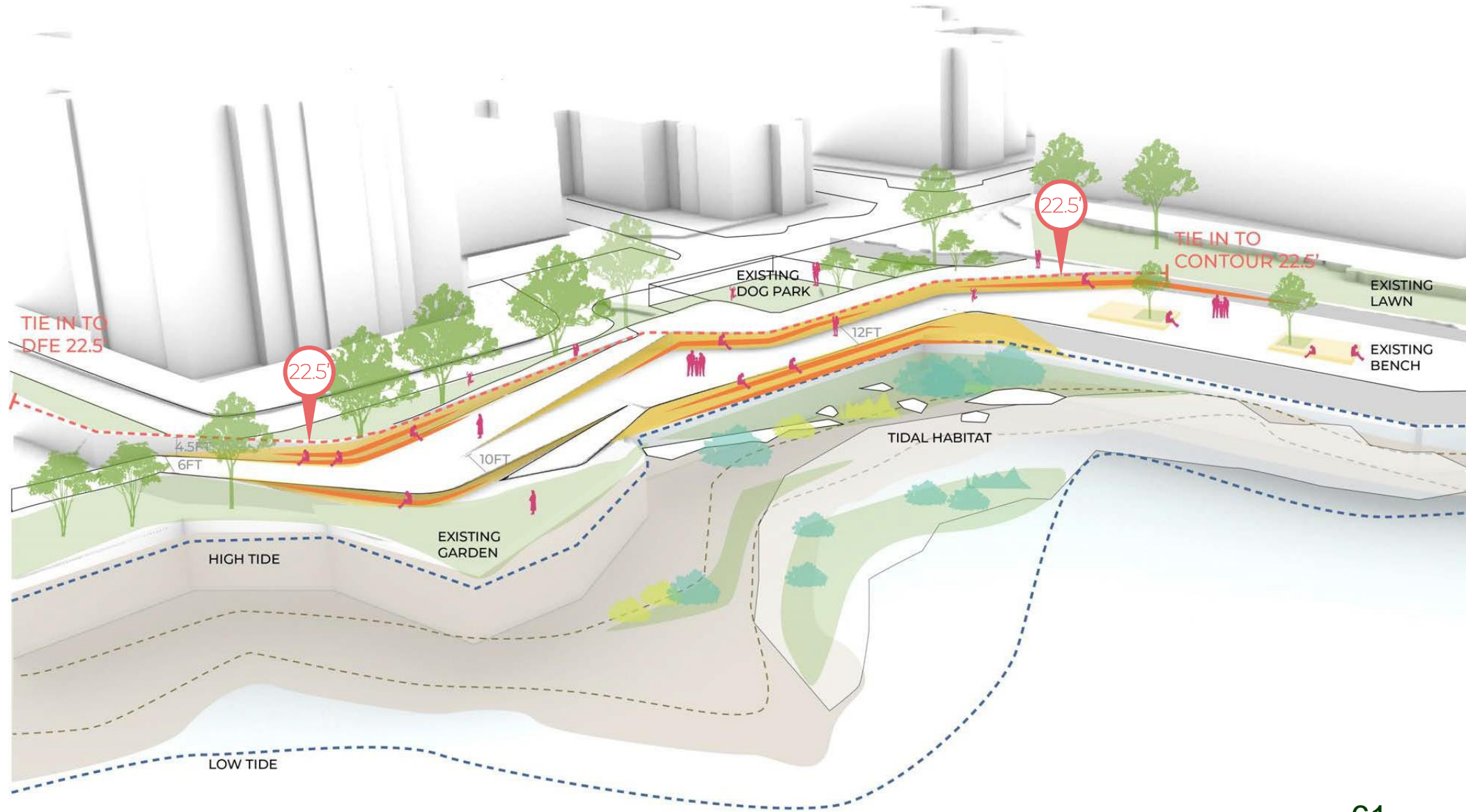
DECK + SEATING



ACCESS TO WATER



TIDAL HABITAT



WHAT WE HEARD FROM YOU ABOUT CARLTON WHARF

You wanted to see more of this:

HARBOR PATH



58%

TIDAL HABITAT



66%

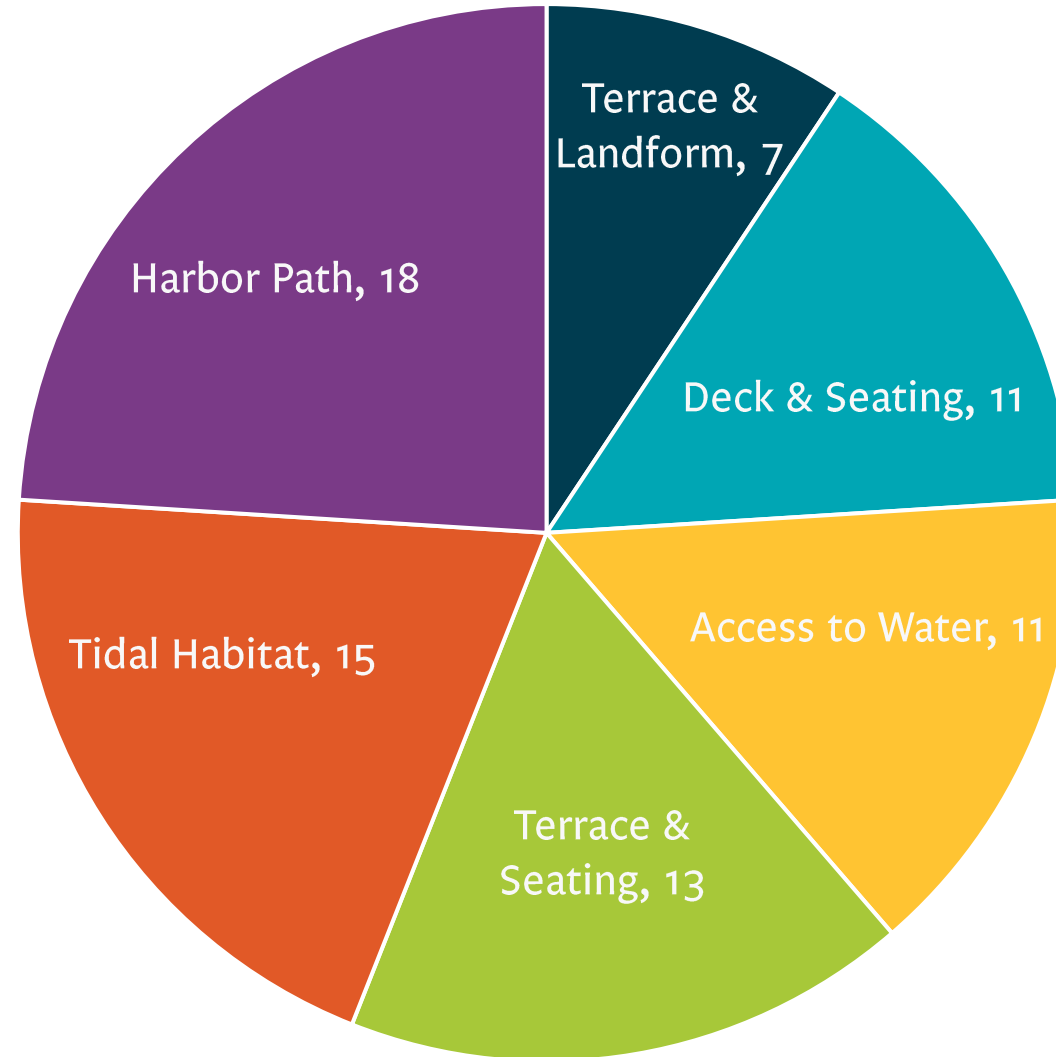
ACCESS TO WATER



45%

- Deck & Seating – 29%
- Terrace & Seating – 24%
- Terrace & Landform – 18%

What do you like most about this design? (Community Survey)



Reiterated Themes:
HARBORWALK
NATURE
LIGHTING

History Lots of lighting Havre Street Connection
People of color Water access Floating spaces
More trees Beach
Lighting puppies
widen harborwalk Green space
urban wilds Trees
swimming area Upkeep
expanded harborwalk Natural shoreline
Space for work
Beer garden Wild gardens floating wetlands
Fishing Cleaning Station
Educational opportunities

ADJACENT PROPERTY OWNER FEEDBACK

PRIORITIES

- Continuity of Harborwalk
- Wants it to feel modern
- Preference for hardscape elements
- Efficient site access

CONCERNS

- Security
- Not enough lighting
- Maintenance



Design Refinements Lewis Mall

GARAGE
ENTRANCE

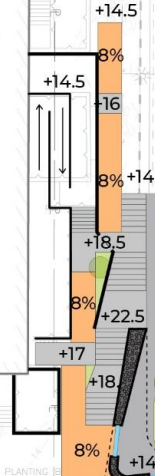
TIE IN TO
BUILDING
22.5'

N/F
CLIPPERSHIP WHARF PRIMARY
23-25 LEWIS ST
PARCEL 0105400020

FFE:18.0±

CONCRETE
X14.8

LAWN AREA



12' LEWIS ST

XFFE:21.5±

XFFE:16.75±

X17.1

CONCRETE WALKWAY

STORMWATER OUTFALL

E PIER DR

S BREMEN ST

N/F
MASSACHUSETTS PORT
AUTHORITY
MARGINAL ST
PARCEL 0104447010

STREET LIGHTING (TYP)

VERTICAL GRANITE
CURB (TYP)

X19.0

+15

PLANTING

+14.5

UPPER DECK

+15

8%

+17.5

8%

+20

8%

+22.5

8%

+20

+19

TIE IN TO DFE 22.5'
(PORTSIDE PIER ONE)

HARBORWALK TO MEET
CLIPPERSHIP GRADE

STORMWATER OUTFALL

+15

RIP-RAP SLOPE (TYP)



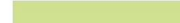




BULKHEAD AREA
BENEATH PIER

PIER

OUTER WALL OF MBTA TUNNEL
TUNNEL WIDTH (28.65'-FT)

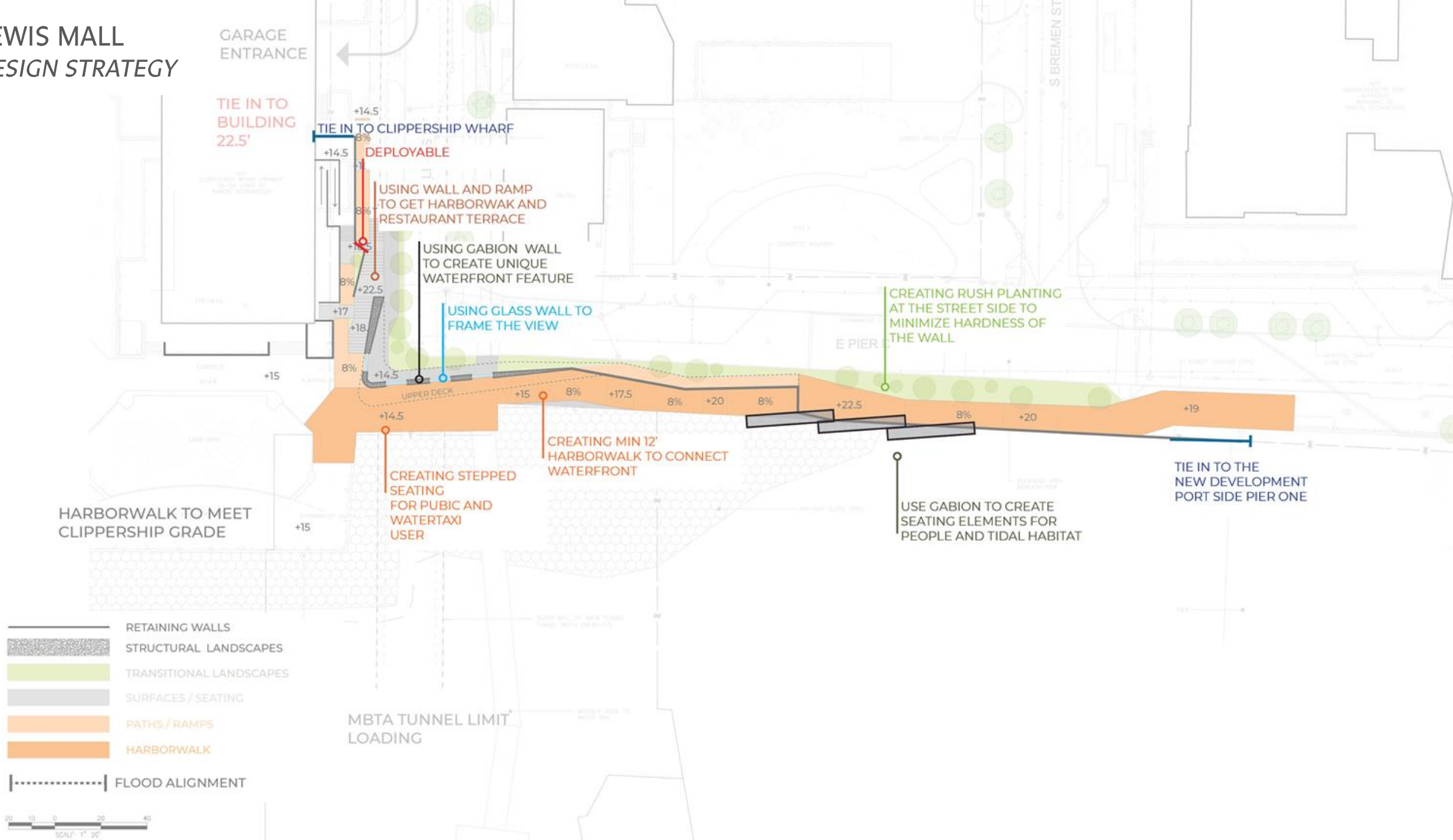
WOODEN DOCK TO
WATER TAXI

MBTA TUNNEL LIMIT
LOADING

-  RETAINING WALLS
-  STRUCTURAL LANDSCAPES
-  TRANSITIONAL LANDSCAPES
-  SURFACES / SEATING
-  PATHS / RAMPS
-  HARBORWALK
-  FLOOD ALIGNMENT

20 10 0 20 40
SCALE: 1" = 20'

LEWIS MALL DESIGN STRATEGY



GARAGE
ENTRANCE

TIE IN TO
BUILDING
22.5'

+14.5
3%
16
3% +14.5
+17.5
8%
+22.5
+17
+18
8%

LEWIS ST



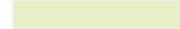
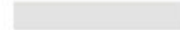



S BREMEN ST

E PIER DR

+15
+14.5
8%
+17.5
8%
+20
8%
+22.5
8%
+20
+19

TIE IN TO DFE 22.5'
(PORTSIDE PIER ONE)

HARBORWALK TO MEET
CLIPPERSHIP GRADE

-  RETAINING WALLS
-  STRUCTURAL LANDSCAPES
-  TRANSITIONAL LANDSCAPES
-  SURFACES / SEATING
-  PATHS / RAMPS
-  HARBORWALK
-  FLOOD ALIGNMENT

MBTA TUNNEL LIMIT
LOADING



GARAGE ENTRANCE

TIE IN TO BUILDING 22.5'

+14.5
8%
+16
8%
+14.5
+18.5
8%
+22.5
+17
+18
8%
+14.5

LEWIS ST

S BREMEN ST

E PIER DR

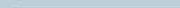


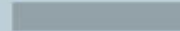



UPPER DECK

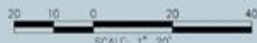
+15 8% +17.5 8% +20 8% +22.5 8% +20 +19

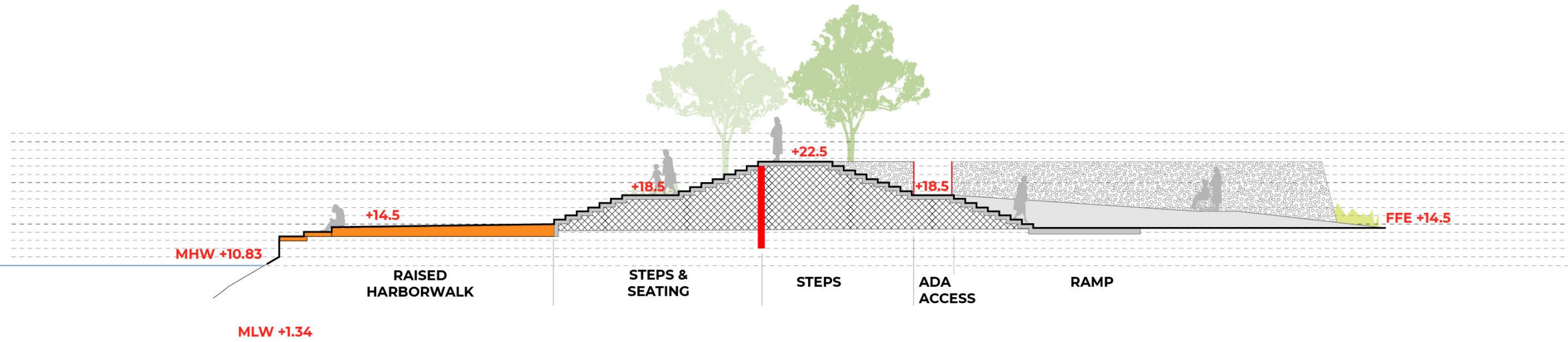
TIE IN TO DFE 22.5' (PORTSIDE PIER ONE)

HARBORWALK TO MEET CLIPPERSHIP GRADE

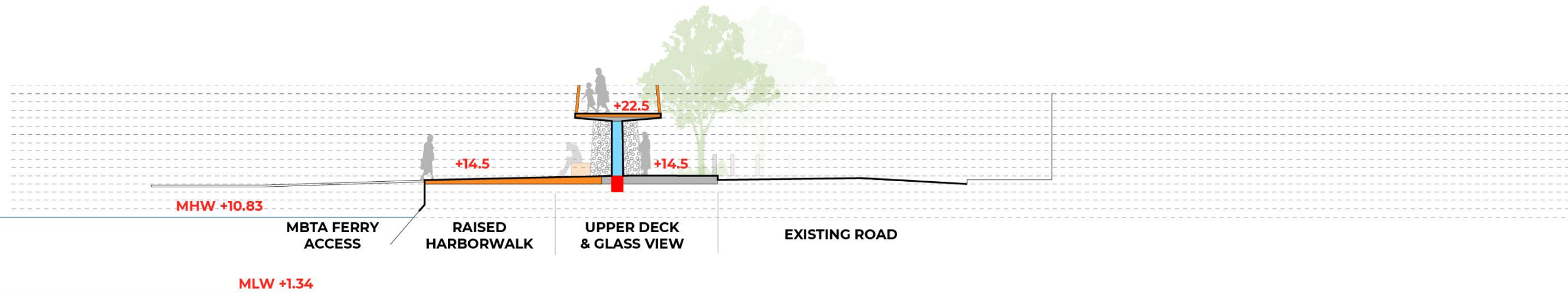
MBTA TUNNEL LIMIT*
LOADING

-  RETAINING WALLS
-  STRUCTURAL LANDSCAPES
-  TRANSITIONAL LANDSCAPES
-  SURFACES / SEATING
-  PATHS / RAMPS
-  HARBORWALK
-  FLOOD ALIGNMENT



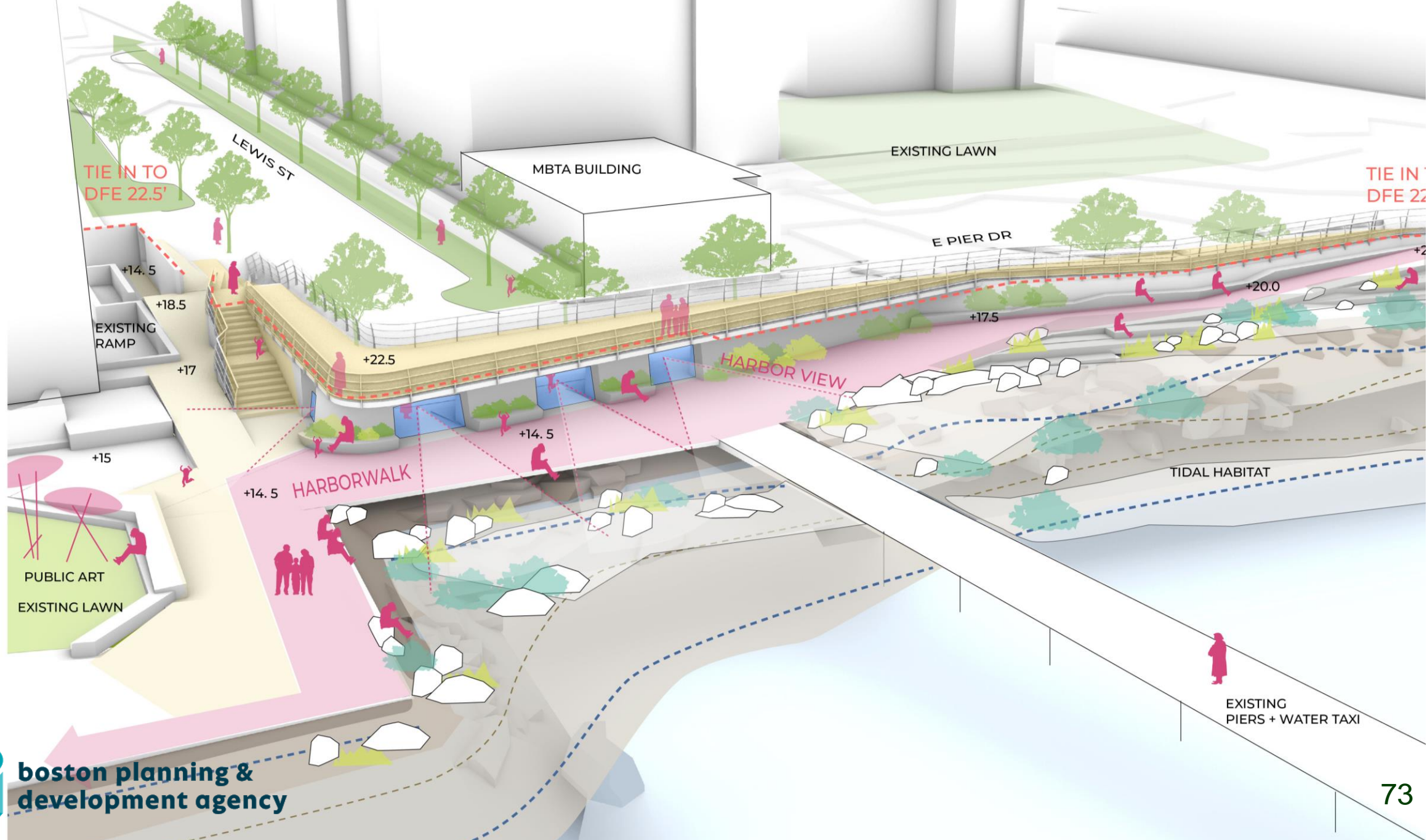


Lewis St - Section A



Lewis St - Section B

TO LEWIS MALL



boston planning & development agency

Green Terraces



**boston planning &
development agency**

Viewing Spots & Seating



Deck & Plazas



slido

What do you like most about the refined design?

 Start presenting to display the poll results on this slide.

slido

Is there anything else you would like to see?

 Start presenting to display the poll results on this slide.

QUESTIONS ABOUT LEWIS MALL?

Design Refinements Carlton Wharf

TIE IN TO
DFE 22.5'

FFE +18
FFE:18.0±

CLIPPERSHIP LN

RAISED
CROSSWALK

EXISTING
DOG PARK

SCULPTURE

HARBORWALK TO MEET
BOILERWORKS GRADE

+15

+17

+18

+22.5

+19.5

+18

+19

+21

+22.5

ORMWATER OUTFALL

GRANITE BLOCKS (TYP)

EXISTING SEAWALL

+19.5

+15



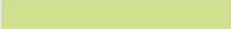
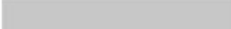



CONC RET WALL (TYP)

BWSC EASEMENT & OUTFALL

STORMWATER OUTFALL

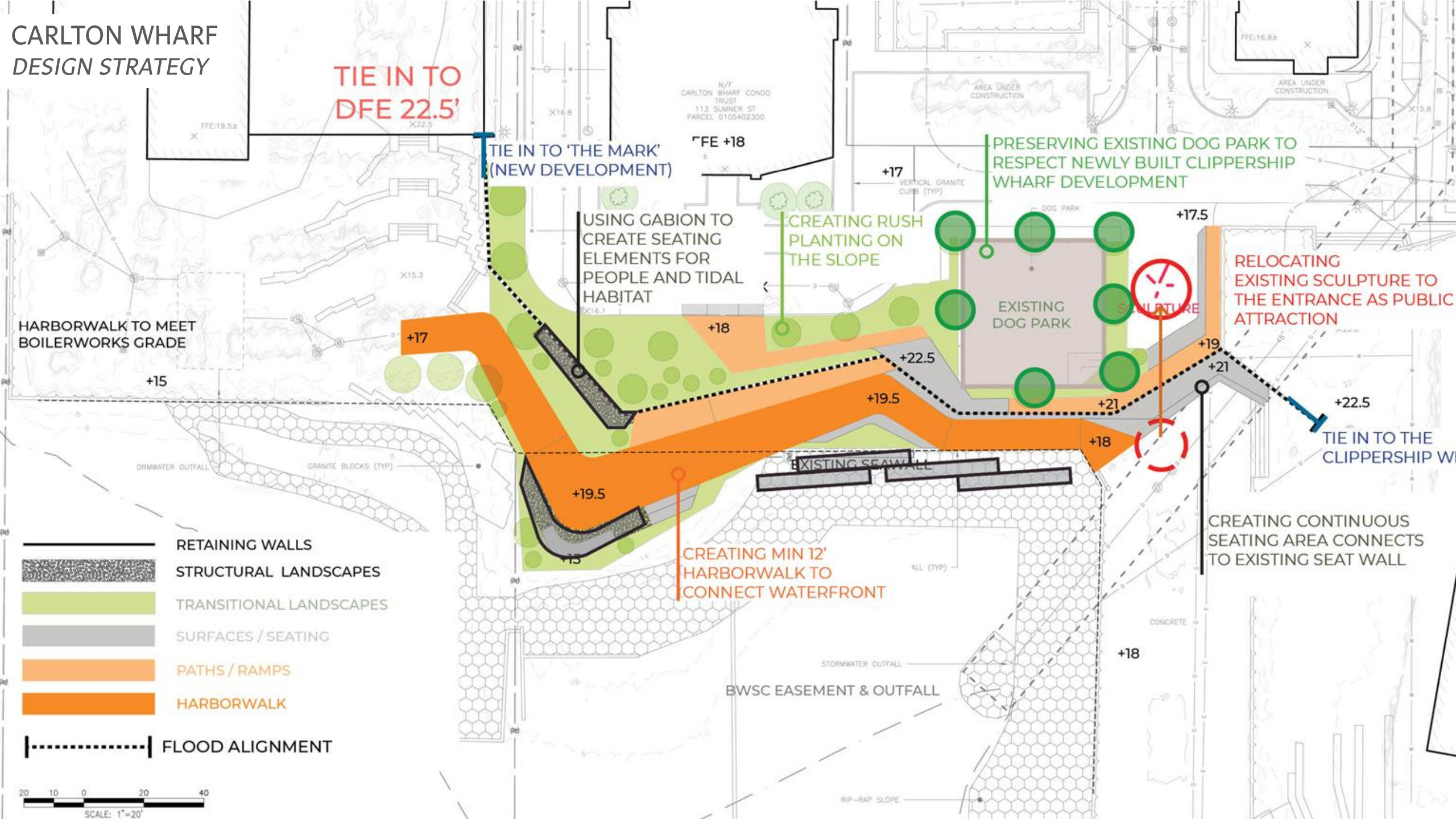
+18




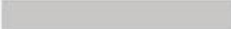



TIE IN TO
CONTOUR
22.5'

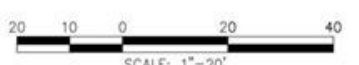
-  RETAINING WALLS
-  STRUCTURAL LANDSCAPES
-  TRANSITIONAL LANDSCAPES
-  SURFACES / SEATING
-  PATHS / RAMPS
-  HARBORWALK
-  FLOOD ALIGNMENT

20 10 0 20 40
SCALE: 1"=20'

CARLTON WHARF DESIGN STRATEGY



-  RETAINING WALLS
-  STRUCTURAL LANDSCAPES
-  TRANSITIONAL LANDSCAPES
-  SURFACES / SEATING
-  PATHS / RAMPS
-  HARBORWALK
-  FLOOD ALIGNMENT





TIE IN TO
DFE 22.5'

FFE +18

RAISED
CROSSWALK

CLIPPERSHIP LN

HARBORWALK TO MEET
BOILERWORKS GRADE

EXISTING
DOG PARK

SCULPTURE

TIE IN TO
CONTOUR 22.5'

-  RETAINING WALLS
-  STRUCTURAL LANDSCAPES
-  TRANSITIONAL LANDSCAPES
-  SURFACES / SEATING
-  PATHS / RAMPS
-  HARBORWALK

 FLOOD ALIGNMENT

20 10 0 20 40
SCALE: 1"=20'

TIE IN TO
DFE 22.5'

N/F
CARLTON WHARF CONDO
TRUST
113 SUMNER ST
PARCEL D105402300

FFE +18
FFE:18.02








CLIPPERSHIP LN

+17.5
RAISED
CROSSWALK

EXISTING
DOG PARK

SCULPTURE

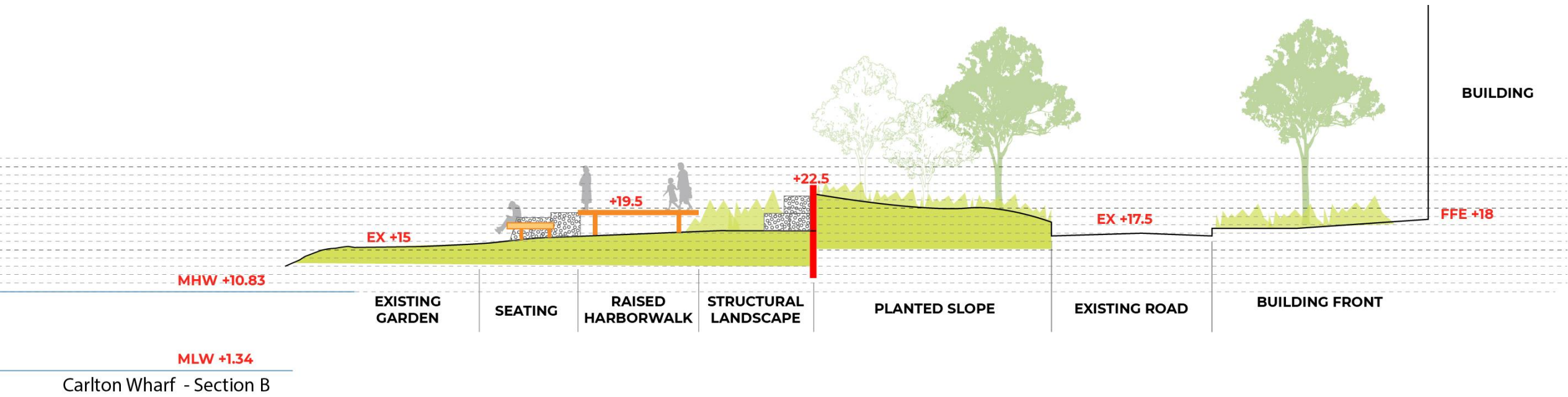
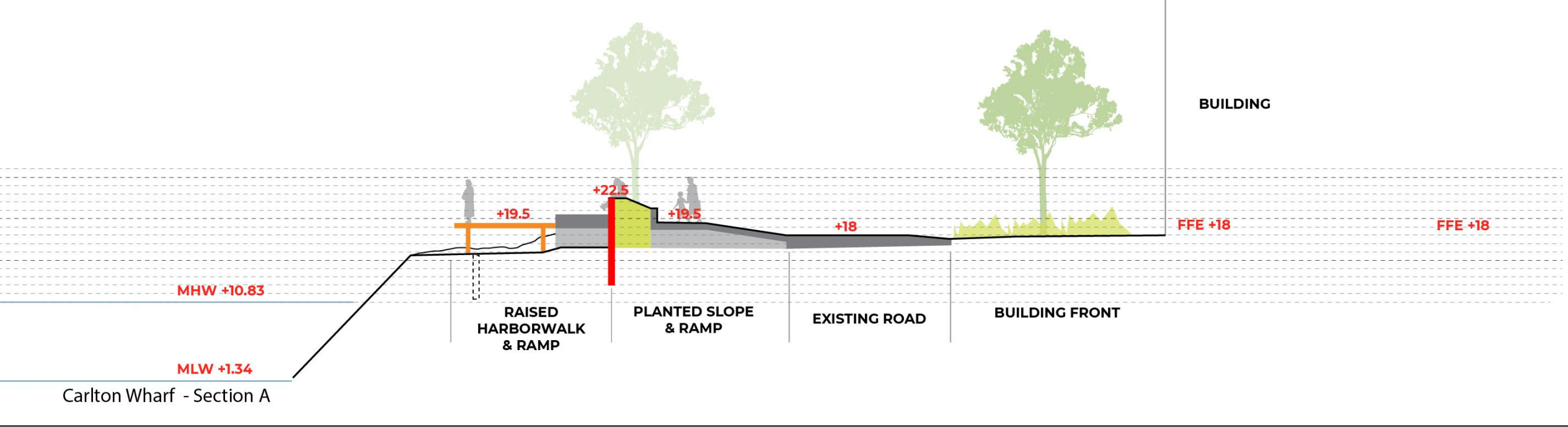
HARBORWALK TO MEET
BOILERWORKS GRADE

-  RETAINING WALLS
-  STRUCTURAL LANDSCAPES
-  TRANSITIONAL LANDSCAPES
-  SURFACES / SEATING
-  PATHS / RAMPS
-  HARBORWALK
-  FLOOD ALIGNMENT

SCALE: 1"=20'

TIE IN TO
CONTOUR
22.5'





Harborwalk Continuity



Harborwalk Continuity



Natural Waterfront Landscape



Natural Waterfront Landscape



Wild Gardens and Green Space



slido

What do you like most about the refined design?

 Start presenting to display the poll results on this slide.

slido

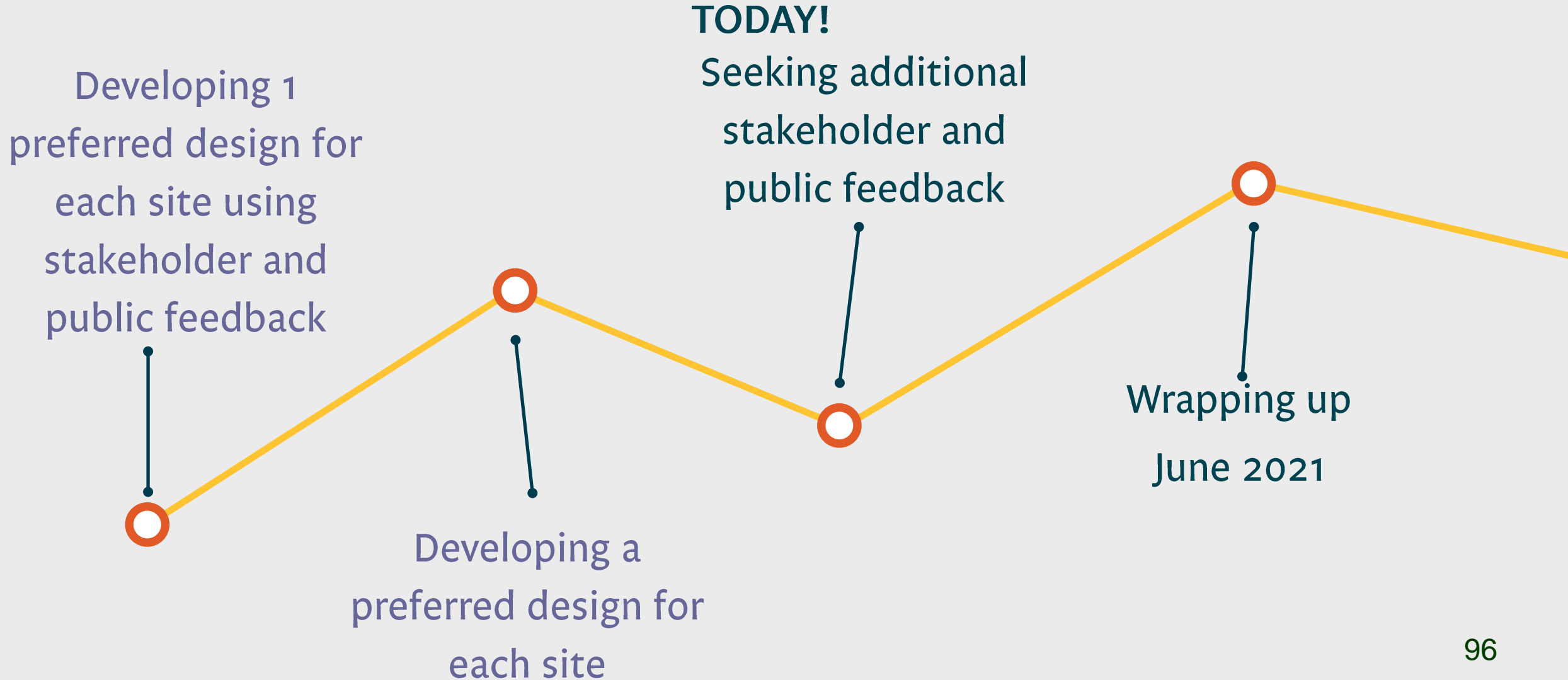
Is there anything else you would like to see?

 Start presenting to display the poll results on this slide.

QUESTIONS ABOUT CARLTON WHARF?

NEXT STEPS

PROCESS & SCHEDULE



WAYS TO ENGAGE

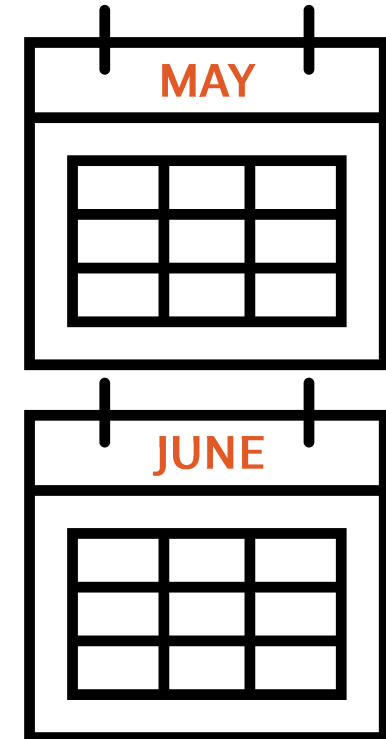
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SOCIAL MEDIA



FOR UPDATES CHECK
OUR WEBSITE



ATTEND 2 VIRTUAL
WORKSHOPS



TELL YOUR FAMILY, FRIENDS, AND NEIGHBORS TO DO THE SAME

GENERAL Q & A



THANKS FOR PARTICIPATING!

STOSS

WOODS HOLE GROUP
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boston planning & development agency

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