

LOWER MANHATTAN COASTAL RESILIENCY PROJECT – BATTERY

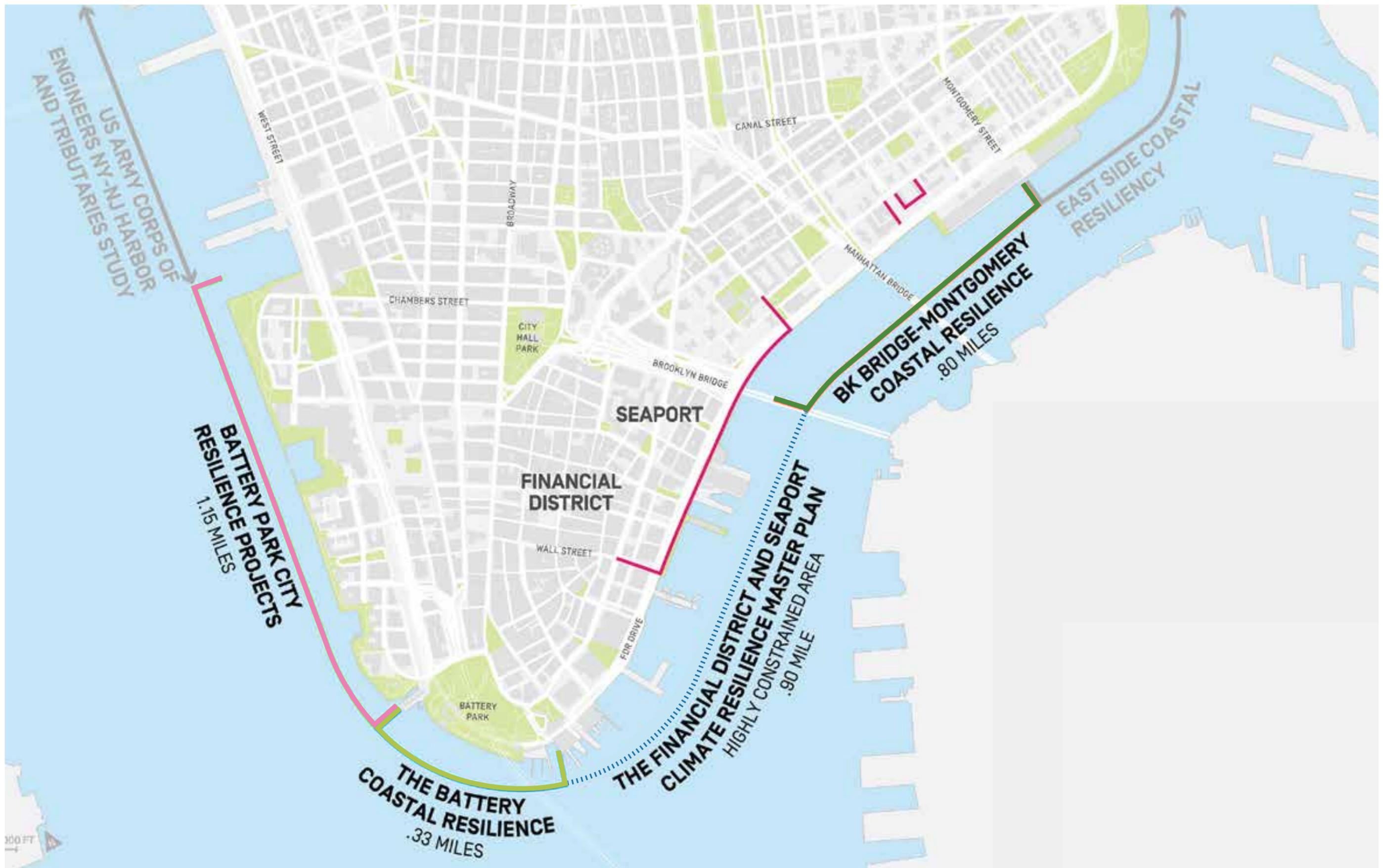
Public Design Commission Preliminary Review

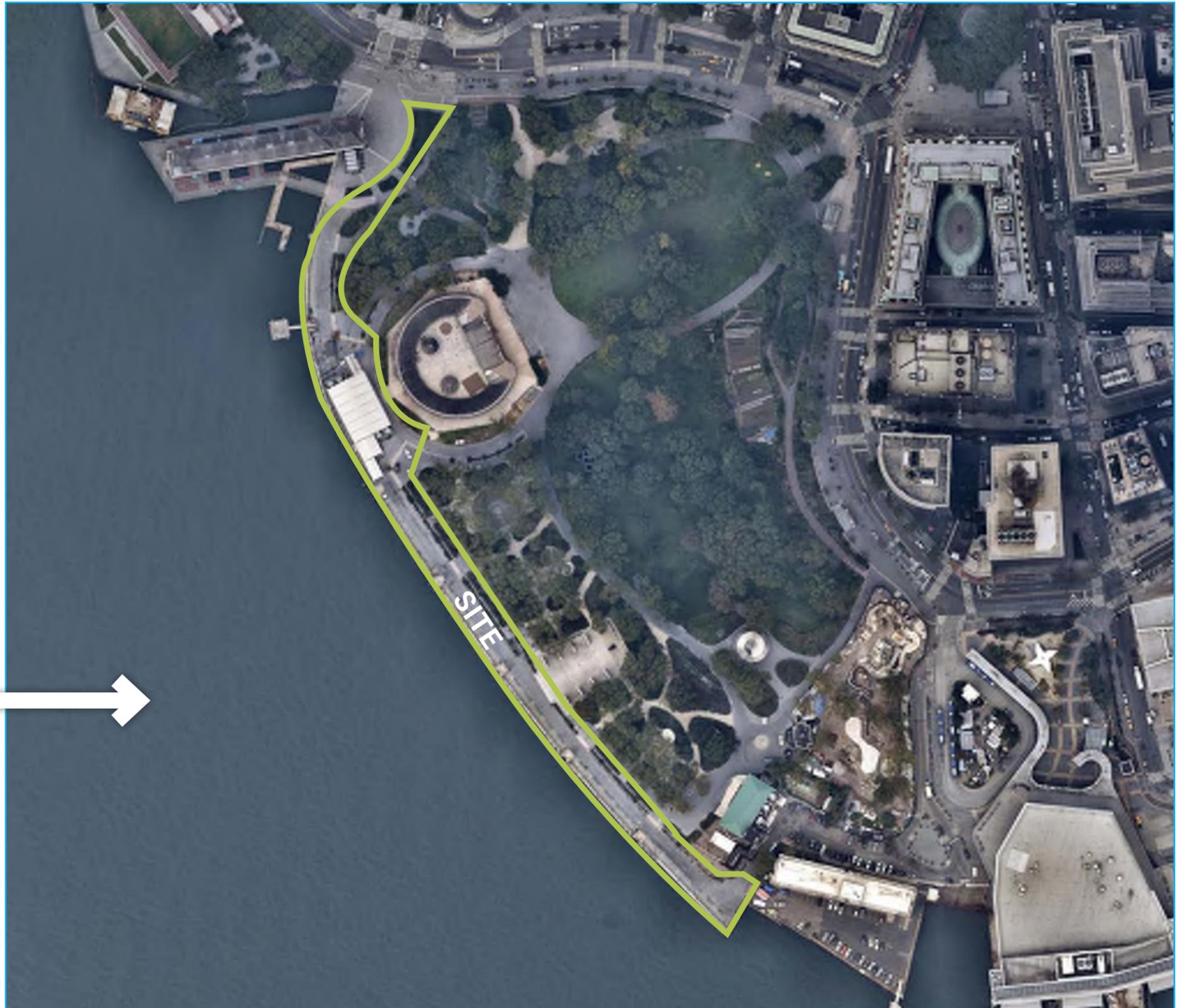
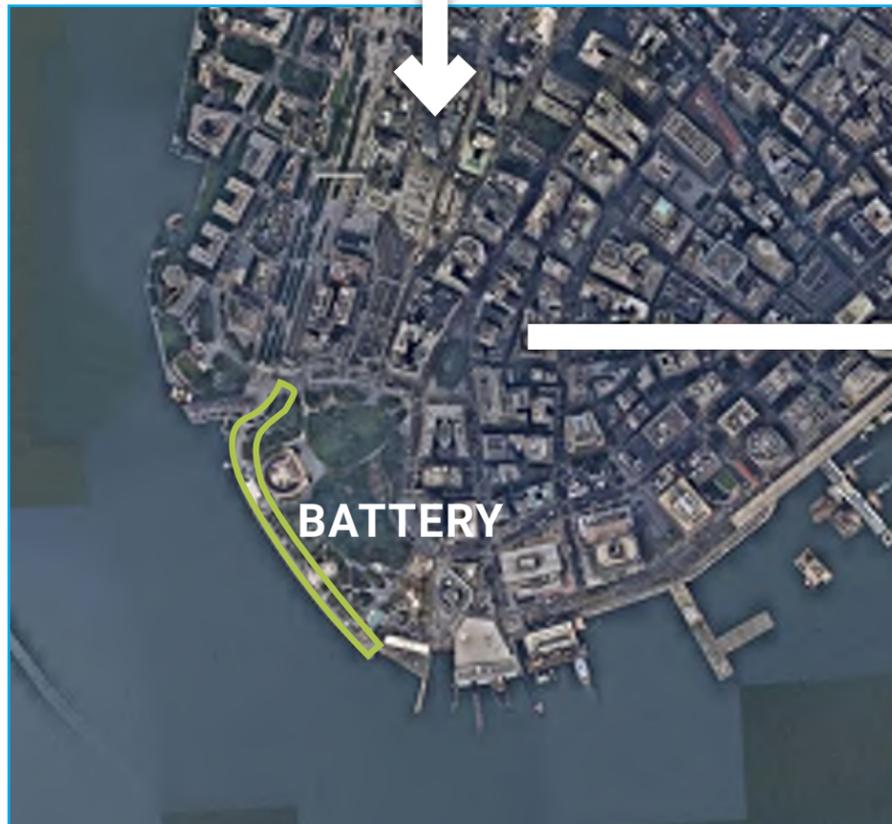
October 18, 2021

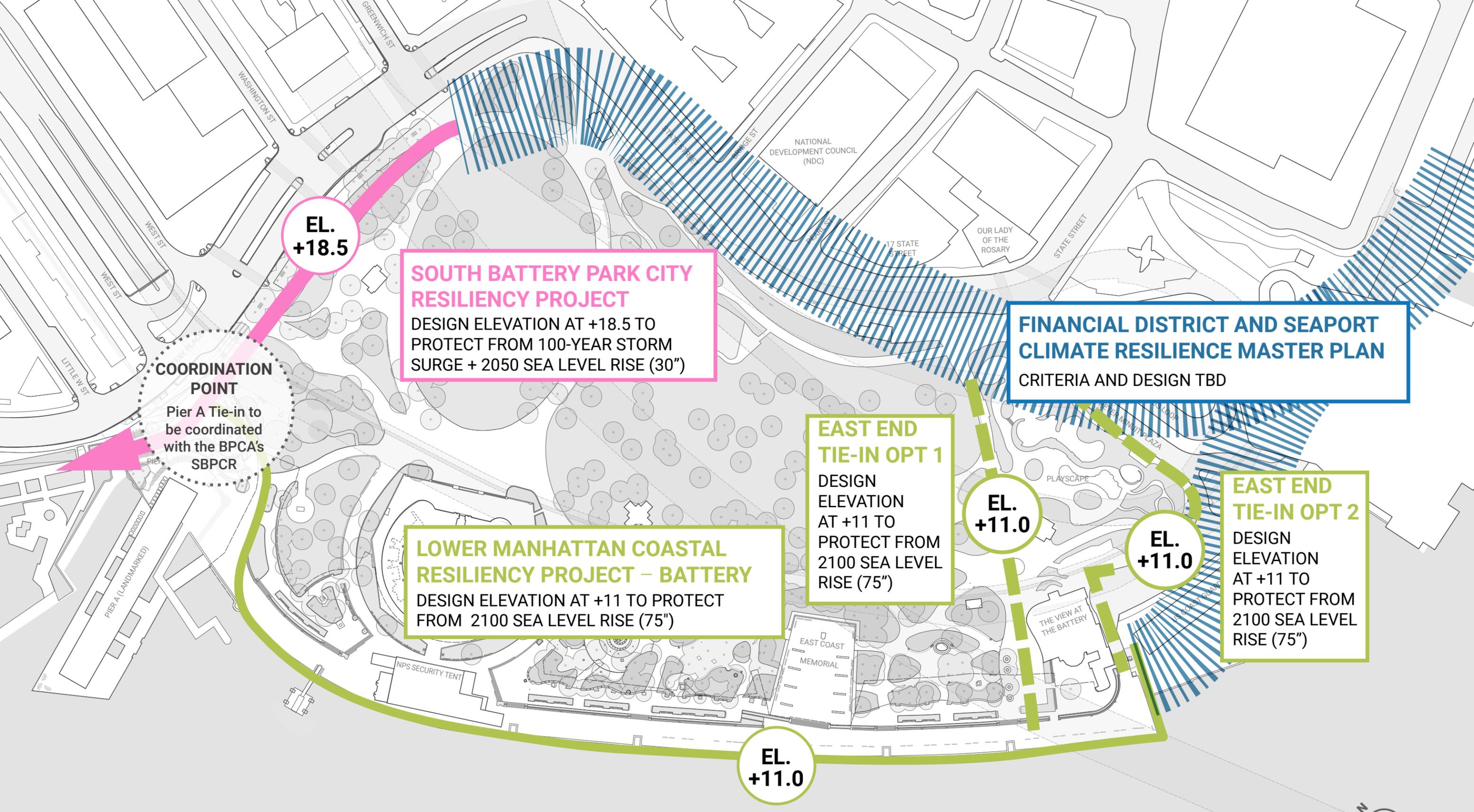


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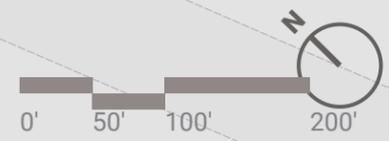
1. Existing Conditions
2. Design Approach
3. Schedule

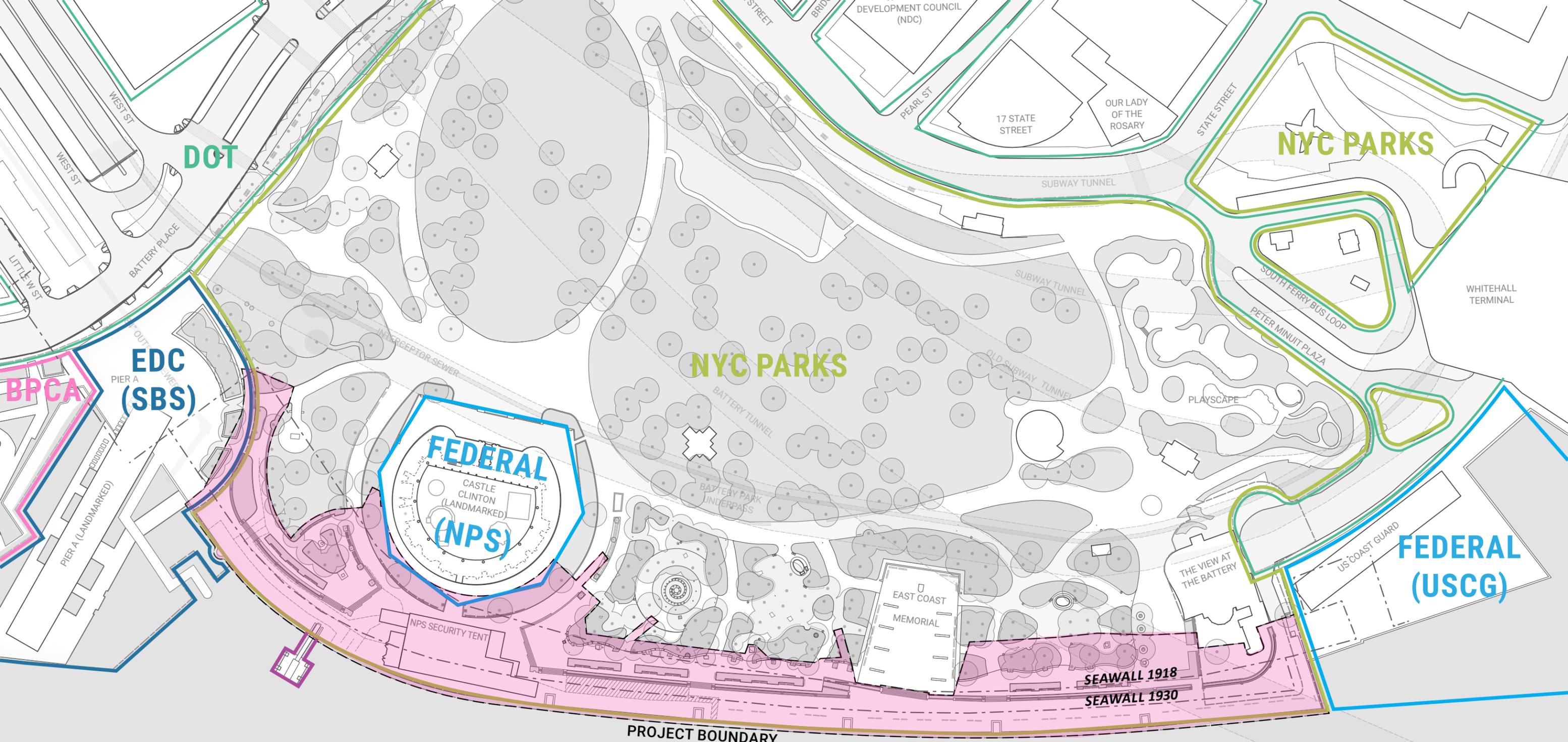






All elevations in NAVD88



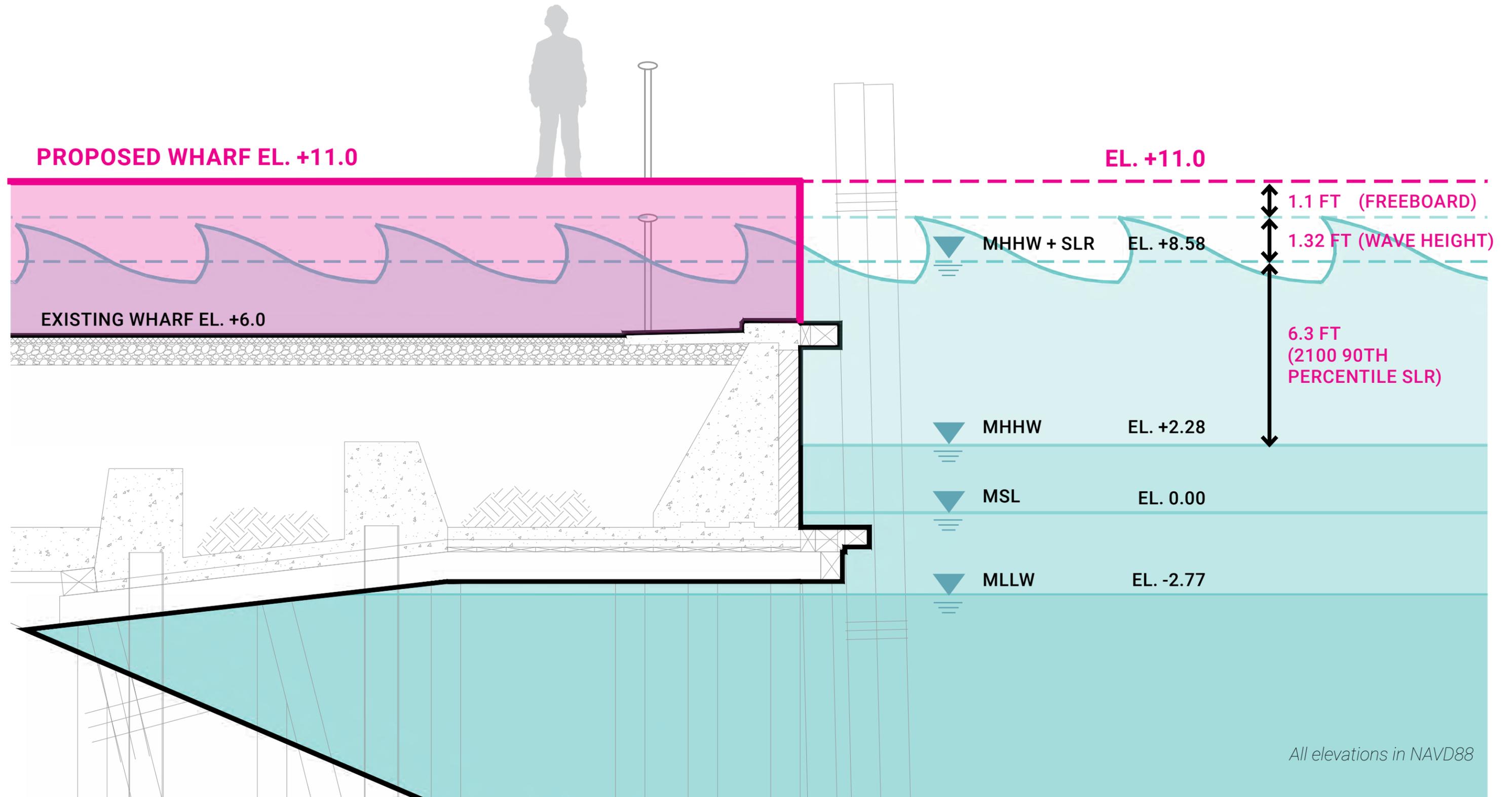


LEGEND

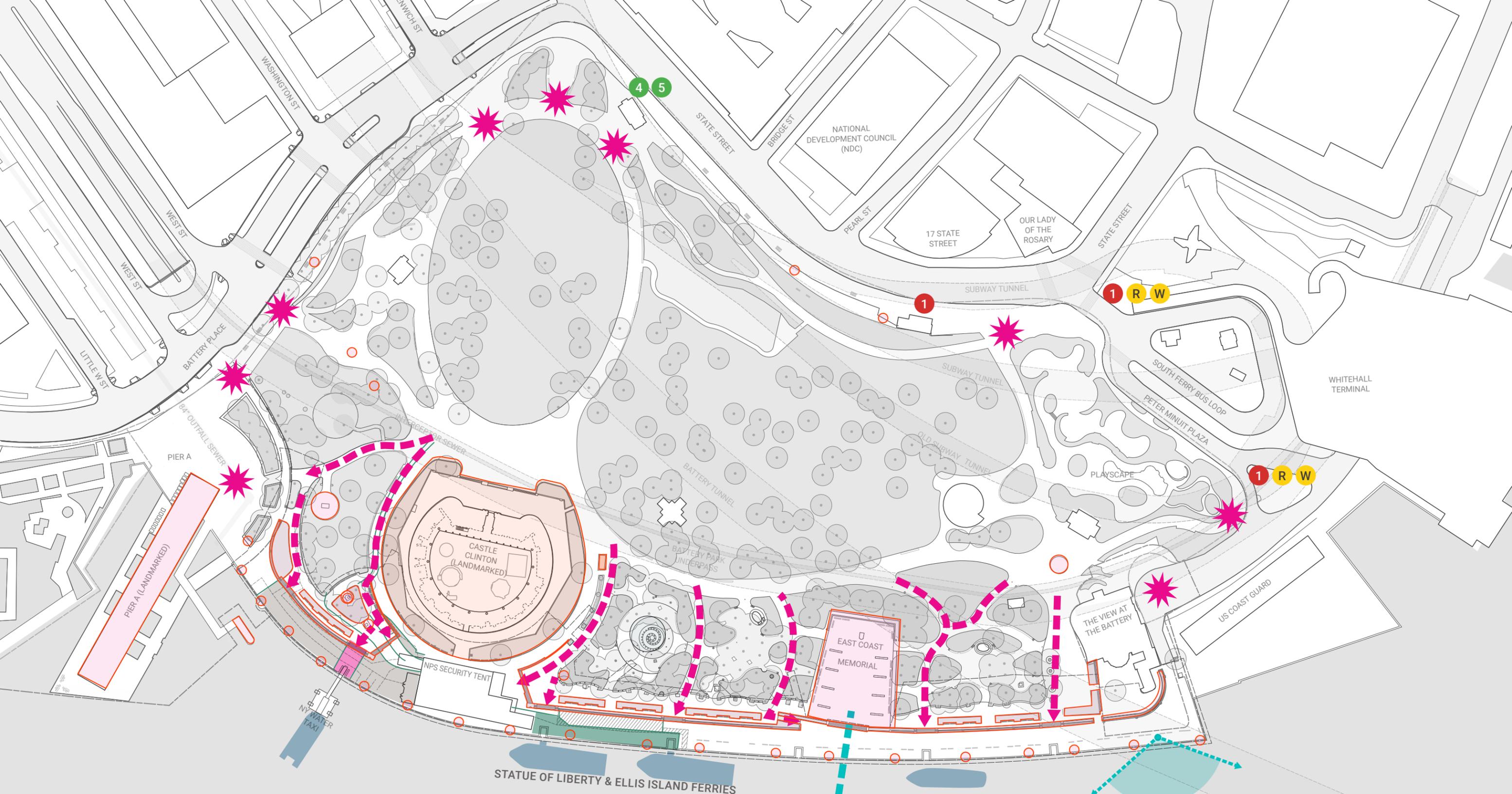
- NYC PARKS
- NYC DOT
- NYC EDC (SBS)
- FEDERAL
- BPCA



Wharf design elevation considers 2100 sea level + vessel-induced waves.



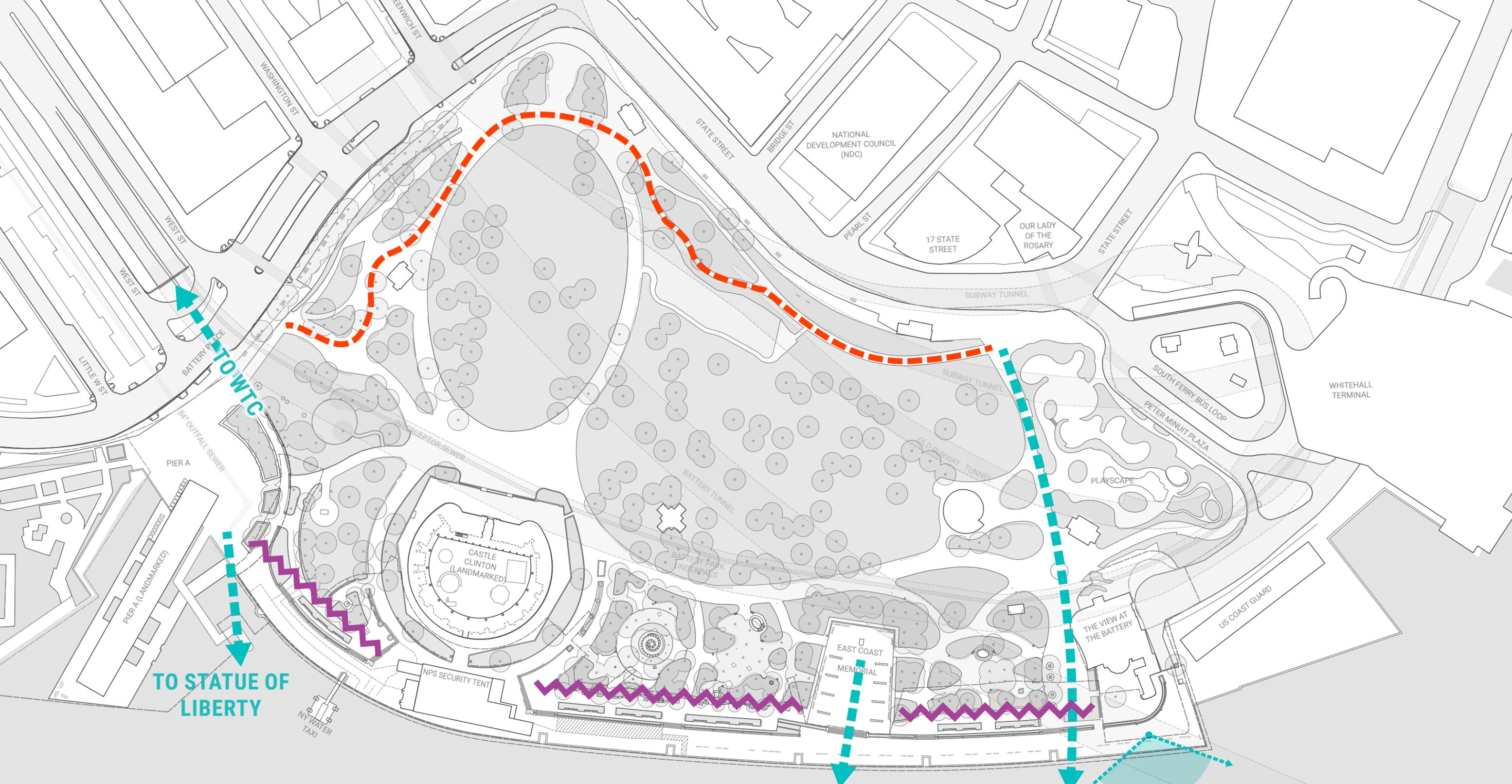
All elevations in NAVD88



LEGEND

- ✳ PARK ENTRANCE
- ▶ PRIMARY CIRCULATION
- MONUMENT / ARTWORK
- NATIONAL PARK SERVICE SECURE AREA
- INACCESSIBLE FOR REPAIRS
- NEW YORK WATER TAXI QUEUE
- MOVABLE SECURITY FENCING
- ▶ FRAMED VIEWS



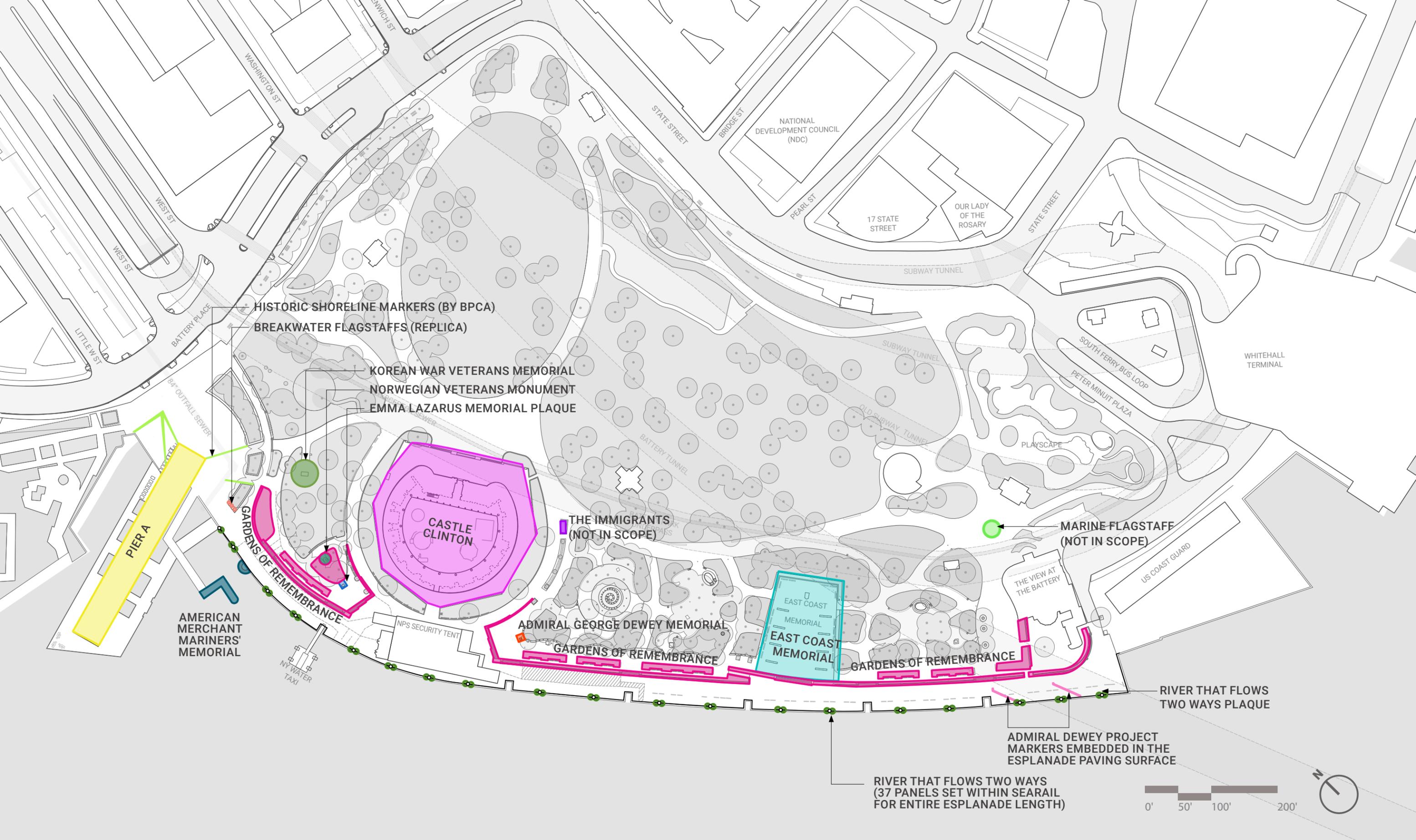


LEGEND

- - - WATER VISIBILITY LINE (WINTER)
- / - / - / INCIDENTAL VIEWS
- - - ▶ FRAMED VIEWS

TO STATUE OF LIBERTY **PANORAMIC VIEW**

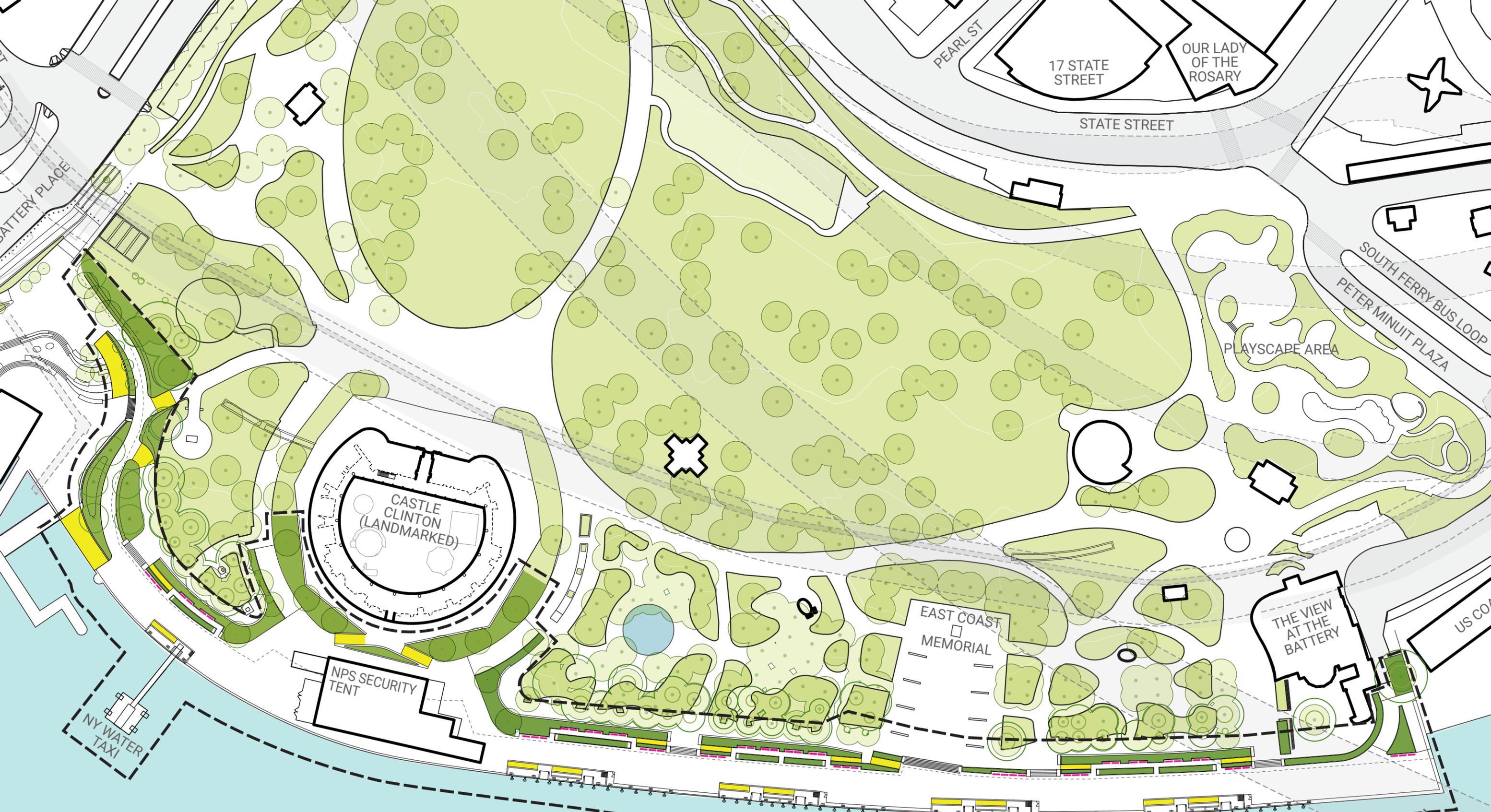






LEGEND

- GRANITE BACKED BENCH
 - BACKLESS BENCH
 - BACKED BENCH
- RAMPS WITH HANDRAILS
 - LIGHT
 - - - SECURITY FENCING



LEGEND

- RAMPS WITH HANDRAILS
- NEW / RESTORED PLANTING
- BACKED BENCH
- x PROPOSED TREE

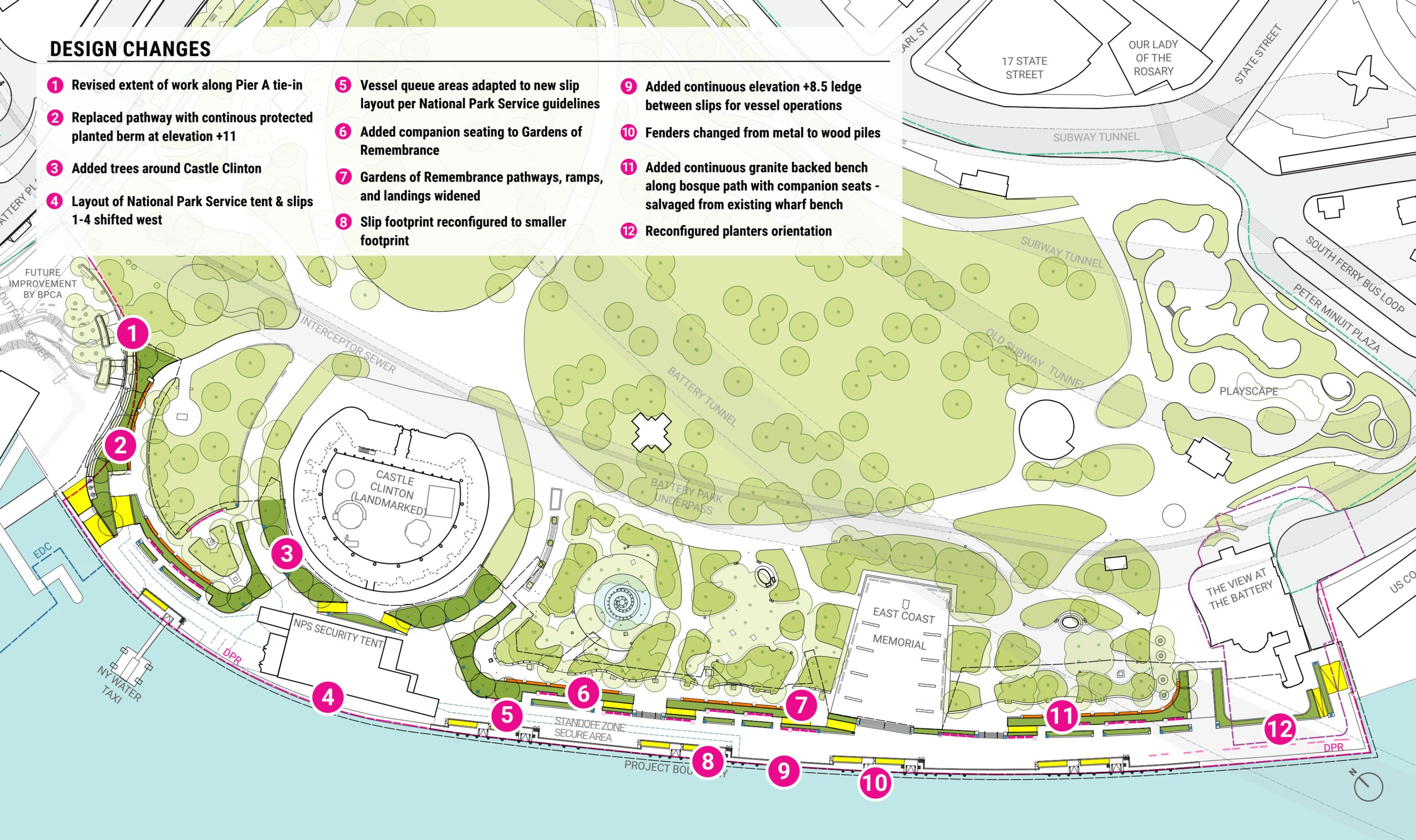


LEGEND

- GRANITE BACKED BENCH
 - BACKLESS BENCH
 - BACKED BENCH
- RAMPS WITH HANDRAILS
 - NEW / RESTORED PLANTING
- SECURITY FENCING
 - ⊕ LIGHT
- ⊗ PROPOSED TREE

DESIGN CHANGES

- 1** Revised extent of work along Pier A tie-in
- 2** Replaced pathway with continous protected planted berm at elevation +11
- 3** Added trees around Castle Clinton
- 4** Layout of National Park Service tent & slips 1-4 shifted west
- 5** Vessel queue areas adapted to new slip layout per National Park Service guidelines
- 6** Added companion seating to Gardens of Remembrance
- 7** Gardens of Remembrance pathways, ramps, and landings widened
- 8** Slip footprint reconfigured to smaller footprint
- 9** Added continuous elevation +8.5 ledge between slips for vessel operations
- 10** Fenders changed from metal to wood piles
- 11** Added continuous granite backed bench along bosque path with companion seats - salvaged from existing wharf bench
- 12** Reconfigured planters orientation

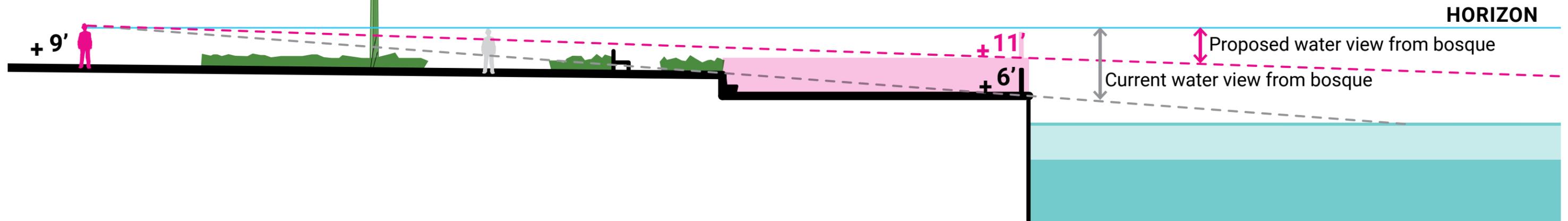




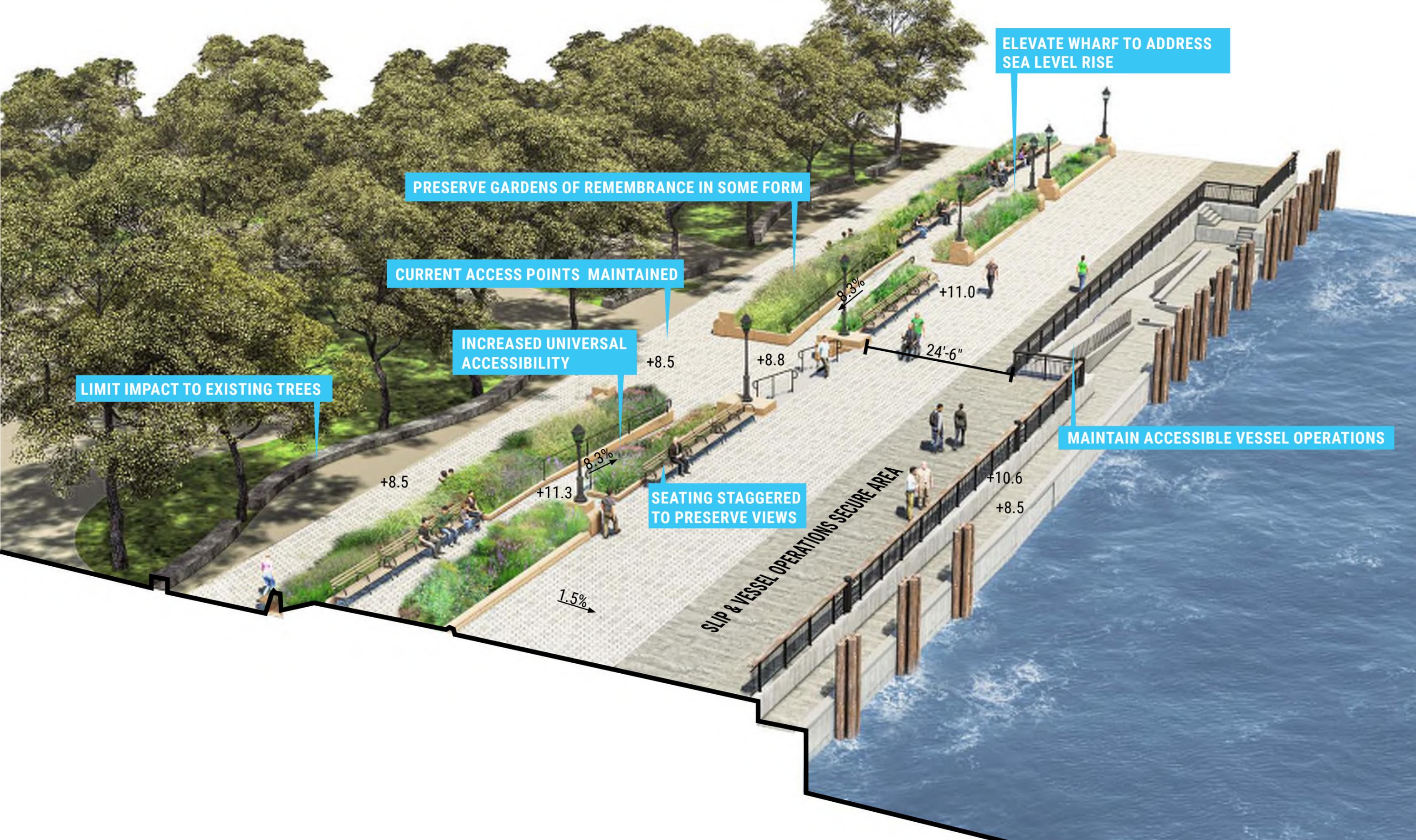
Current water view from bosque



Proposed reduced view of water, with preserved water horizon



Elevated wharf will reduce but not eliminate horizon view of water.



LIMIT IMPACT TO EXISTING TREES

PRESERVE GARDENS OF REMEMBRANCE IN SOME FORM

CURRENT ACCESS POINTS MAINTAINED

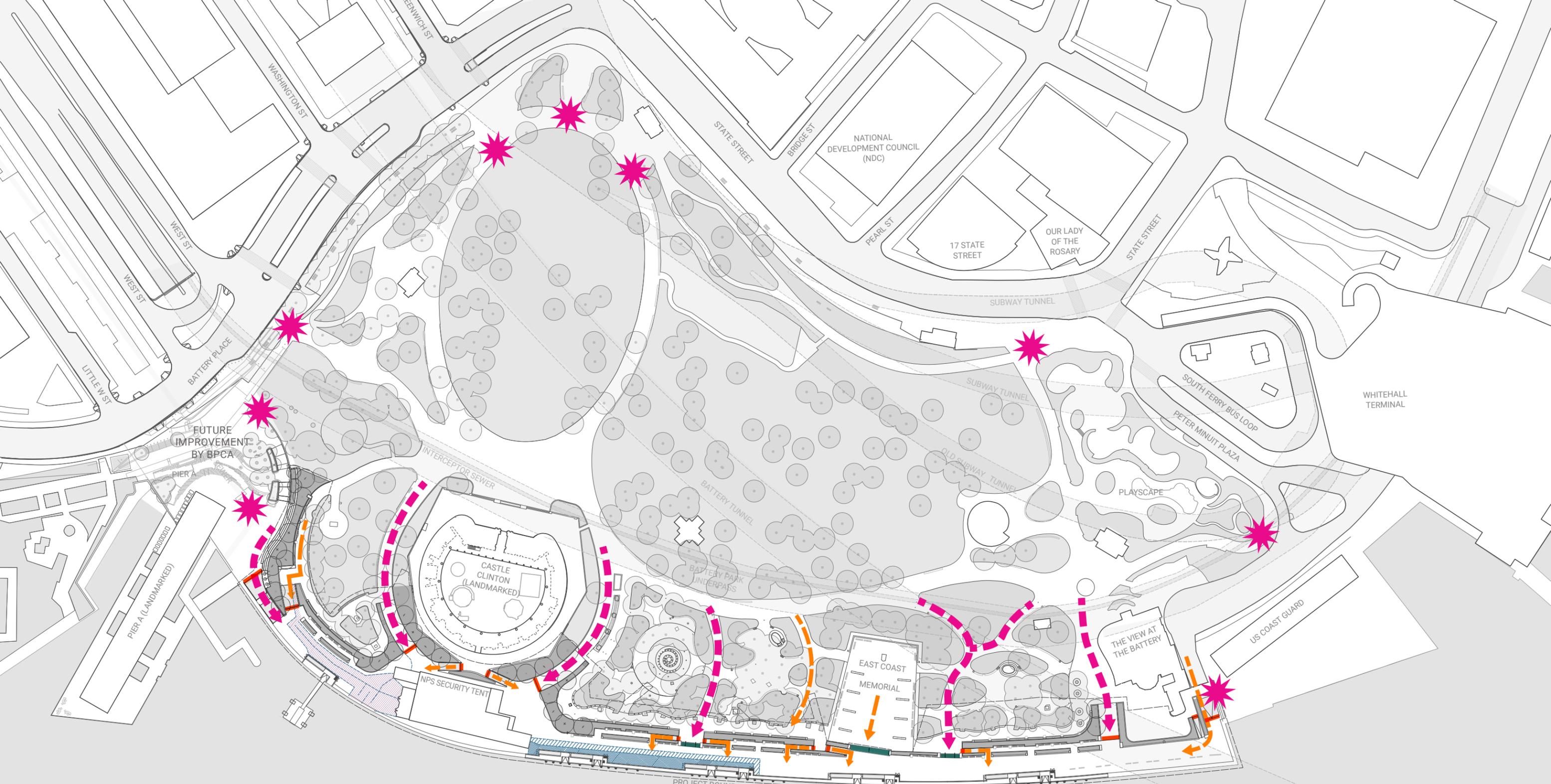
INCREASED UNIVERSAL ACCESSIBILITY

SEATING STAGGERED TO PRESERVE VIEWS

ELEVATE WHARF TO ADDRESS SEA LEVEL RISE

MAINTAIN ACCESSIBLE VESSEL OPERATIONS

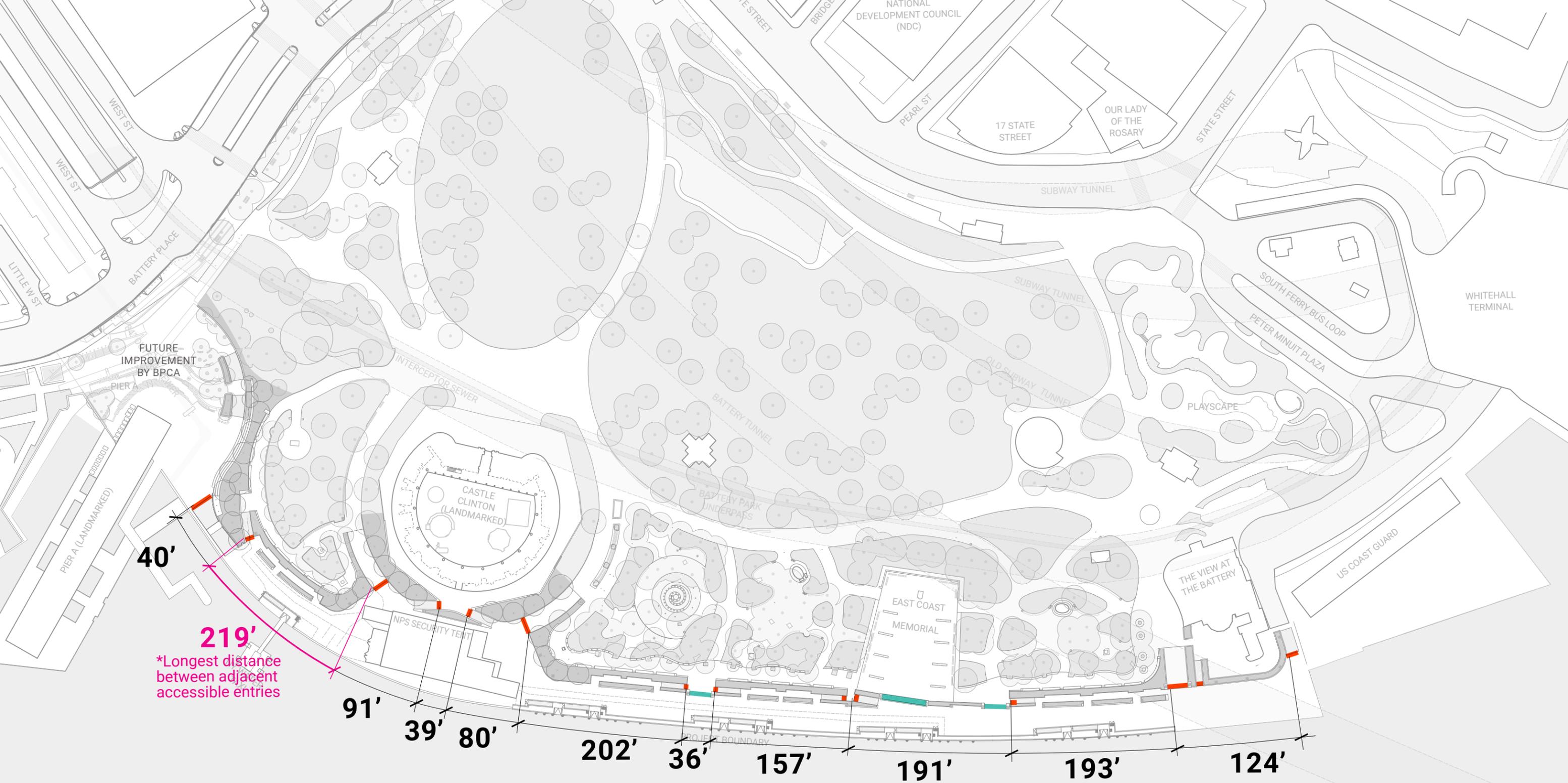
SLIP & VESSEL OPERATIONS SECURE AREA



LEGEND

- PARK ENTRANCE
- PRIMARY PATH TO WHARF
- SECONDARY PATH TO WHARF
- STAIRS
- RAMPS / SLOPED PATHWAYS
- SECURE QUEUING AREA
- QUEUING AREA
- MOVABLE SECURITY FENCING



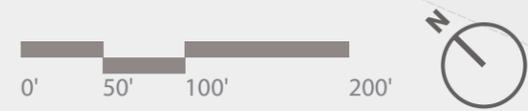


LEGEND

-  RAMPS / SLOPED PATHWAYS
-  STAIRS

NUMBER OF ENTRIES

- PROPOSED ACCESSIBLE ENTRIES  13
- PROPOSED STEPPED ENTRIES  3



Existing



Proposed





GRANITE BACKED BENCH



BACKED BENCH



BACKLESS BENCH



LEGEND

- GRANITE BACKED BENCH
- BACKLESS BENCH
- COMPANION SEATING SPOT
- BACKED BENCH
- LIGHT
- SECURITY FENCING

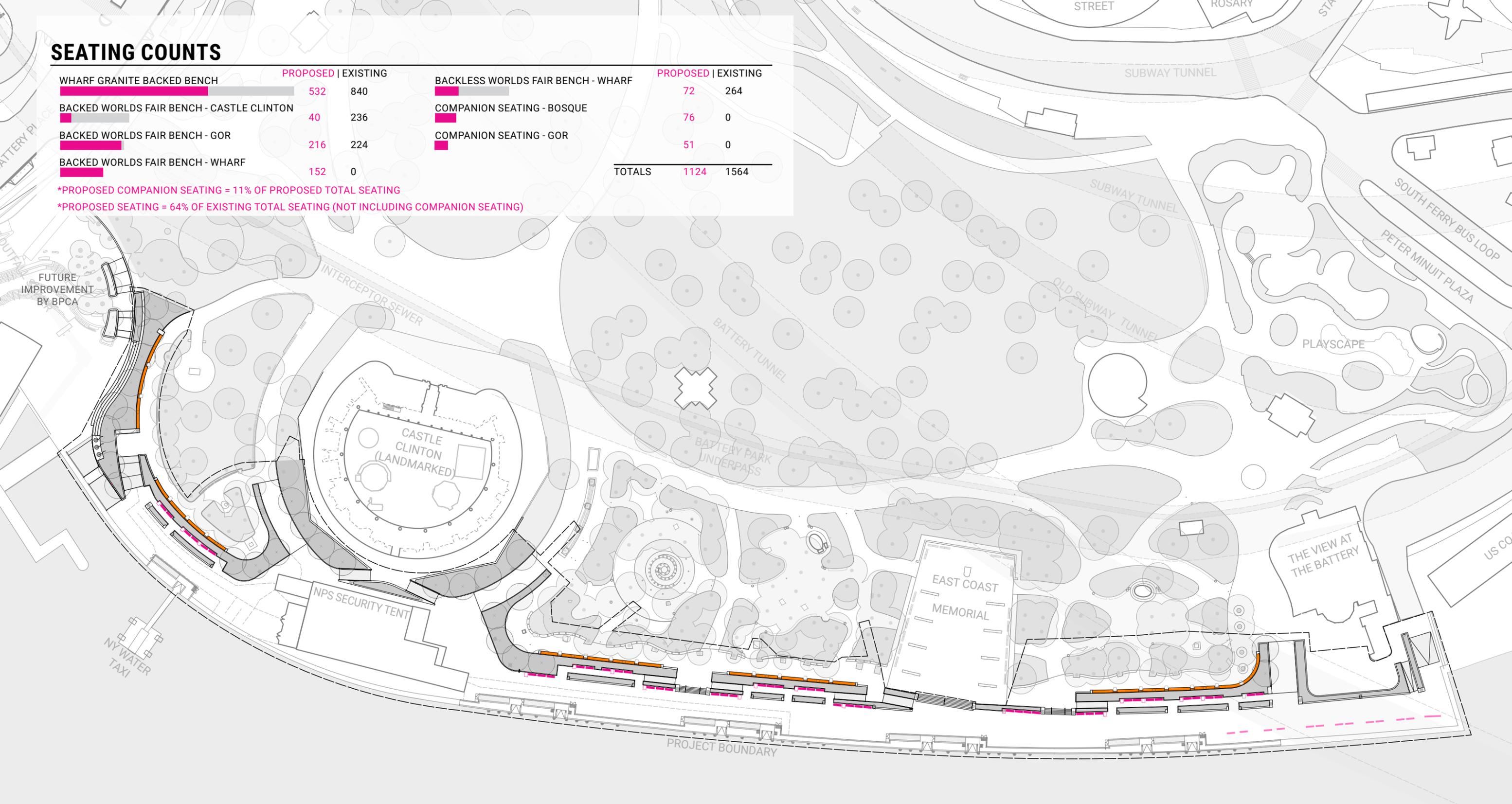


SEATING COUNTS

	PROPOSED	EXISTING		PROPOSED	EXISTING
WHARF GRANITE BACKED BENCH	532	840	BACKLESS WORLDS FAIR BENCH - WHARF	72	264
BACKED WORLDS FAIR BENCH - CASTLE CLINTON	40	236	COMPANION SEATING - BOSQUE	76	0
BACKED WORLDS FAIR BENCH - GOR	216	224	COMPANION SEATING - GOR	51	0
BACKED WORLDS FAIR BENCH - WHARF	152	0	TOTALS	1124	1564

*PROPOSED COMPANION SEATING = 11% OF PROPOSED TOTAL SEATING

*PROPOSED SEATING = 64% OF EXISTING TOTAL SEATING (NOT INCLUDING COMPANION SEATING)



LEGEND

- GRANITE BACKED BENCH
- BACKLESS BENCH
- - - SECURITY FENCING
- COMPANION SEATING SPOT
- BACKED BENCH
- LIGHT





GARDENS OF REMEMBRANCE
ELEVATED RAIN GARDEN
(DRAINAGE AREA CONTAINED
TO PLANTING BED)

BOSQUE PATHWAY
RUNOFF COLLECTED
VIA CATCH BASINS

POROUS PAVERS

DIRECT WHARF RUNOFF
INTO HARBOR

1

KEEP GENERAL FEEL AND PLANTING CHARACTER



Original design

- Place species in small blocks
- Restore lost intermingling of species
- Restore balance of structural and filler plants
- Create evocative species composition
- Include appropriate number of shorter-lived horticultural species

2

UPDATE PLANT PALETTE



Phlox paniculata 'Jeana'

- Use improved cultivars
- Use more heat adapted, urban and salt tolerant species

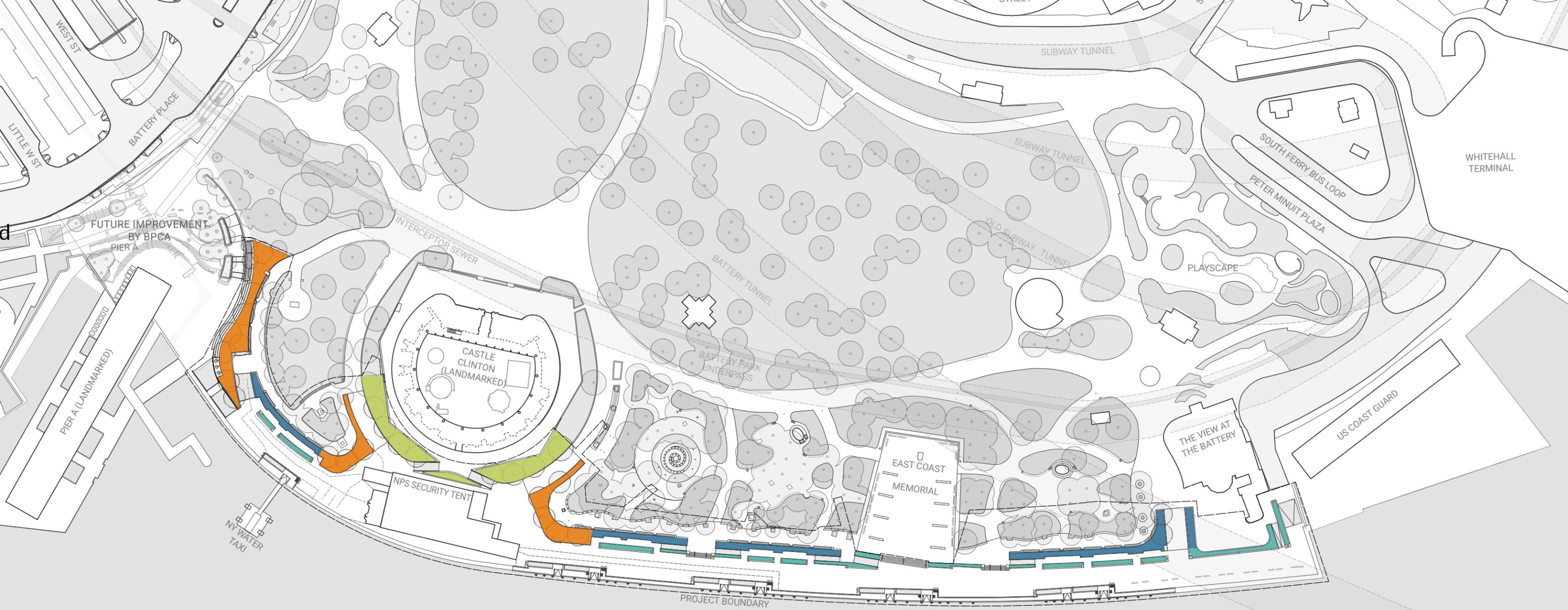
3

BALANCE FLOWERS THROUGHOUT THE YEAR



Hauser & Wirth by Piet Oudolf

- Build strong flower themes
- Preserve the garden's attractive summer and winter themes
- Create stronger appeal in spring and fall
- Underplant taller species for more lushness and spring interest



ZONE A

- Bright and colorful forb meadow inspired planting with loose, transparent emergents. Narrow beds in full sun. Open view to water. Average height under 3'

ZONE B

- Transition zone from Bosque to narrow bed typology on wharf. Average planting height 3'. Interplanted taller perennials as backdrop to benches. Deeper beds in full sun tilted towards Bosque.

ZONE C

- Bosque-like, more landscape scale planting in deep beds tilted towards Bosque. Average vegetation height 3-4'. Sun to dappled shade.

ZONE D

- Bold grass massings under trees firmly ground Castle Clinton's massive architecture. Deep beds in full sun to dappled shade.



RIVERSIDE LUMINAIRE ON B-POLE

LOCATED ON GRANITE BLOCKS OR GROUND
ALONG WHARF



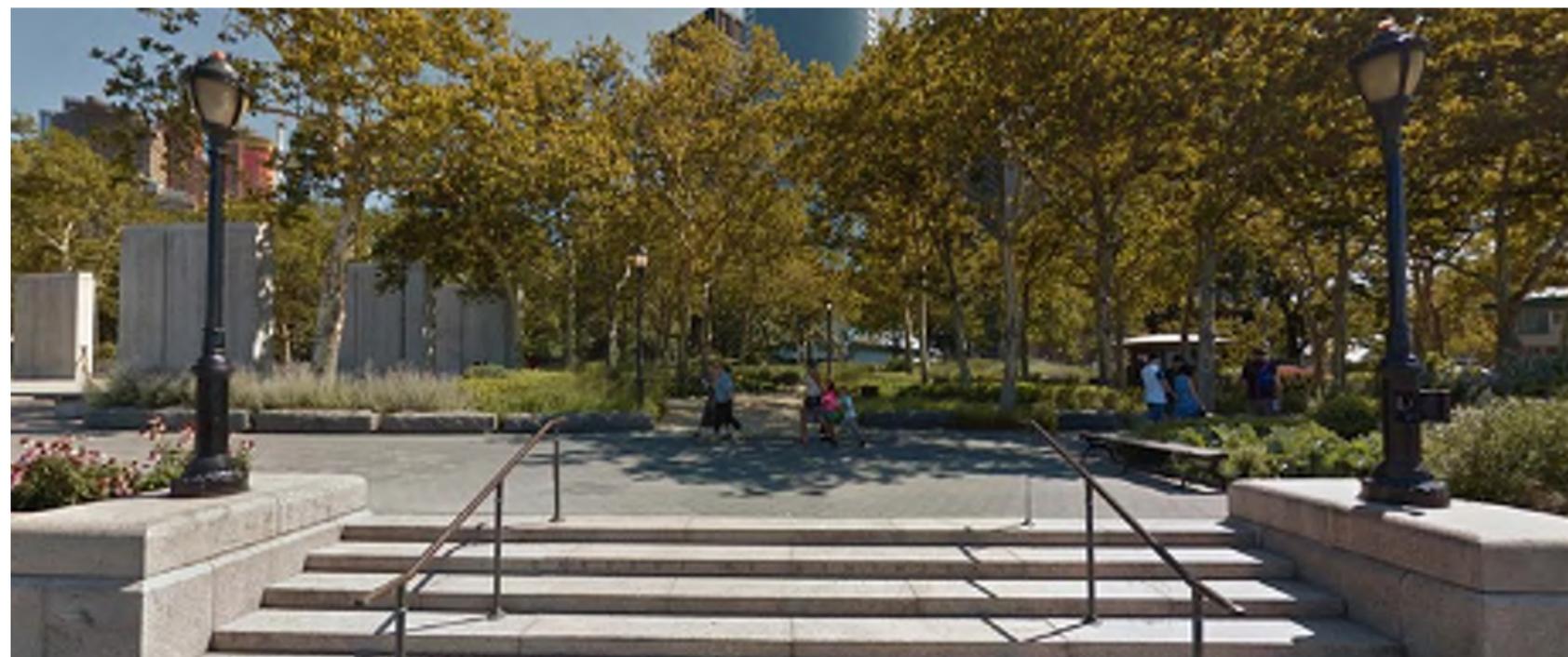
2085 (WORLD'S FAIR) ON B-POLE

FOUR POLES LOCATED AT THE SOUTHERN
ENTRANCE OF CASTLE CLINTON



RECESSED LIGHT FIXTURES WITHIN EAST COAST MEMORIAL'S CHEEK WALLS

LOCATED ON EITHER SIDE OF EAST COAST MEMORIAL STEPS



RIVERSIDE LUMINAIRE ON B-POLE WITH RECEPTACLE

LOCATED ON EITHER SIDE OF PARK STEPS



NPS LIGHTING BY OTHERS

SOUTHEAST END BELOW STANDARD

LEGEND

- | | | |
|--|--|---|
| ■ ACCEPTABLE LIGHT LEVELS | ● RIVERSIDE LUMINAIRE ON B-POLE (NYCDOT MAINTAINED) | ○ RIVERSIDE LUMINAIRE WITH RECEPTACLE (NYCDPR OWNED) |
| ■ BELOW-STANDARD LIGHT LEVELS | ◻ 2085 (WORLD'S FAIR) ON B-POLE (NYCDOT MAINTAINED) | ◻ RECESSED LIGHT FIXTURE (NYCDPR OWNED AND MAINTAINED) |
| — PROTECTED SCREENING AREA | ▲ EAST COAST MEMORIAL LAMPOST (NYCDOT MAINTAINED) | — PROJECT LIMIT LINE |

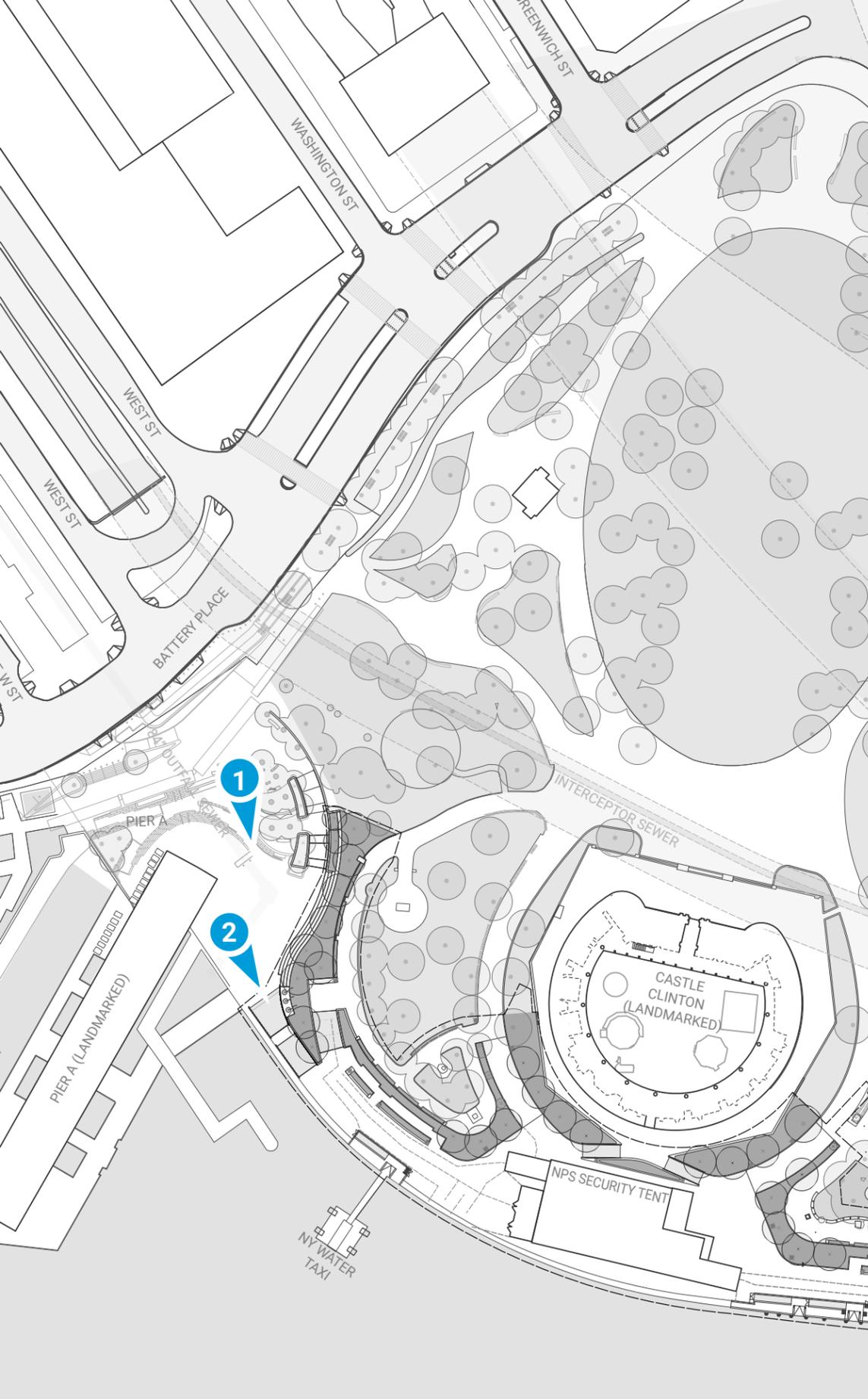


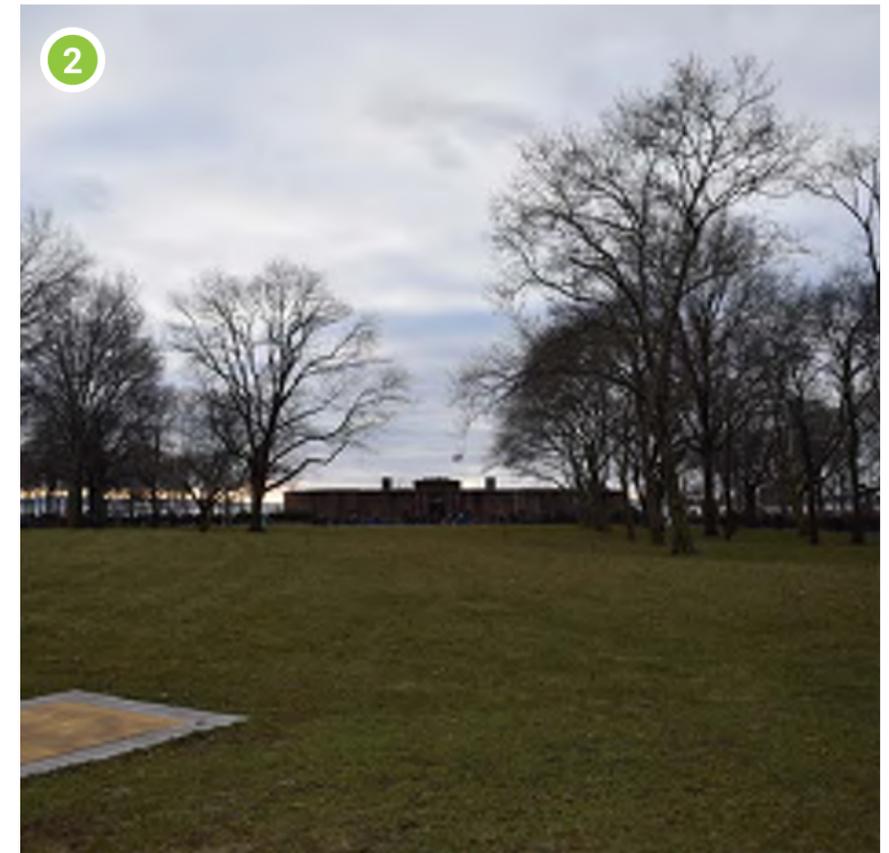
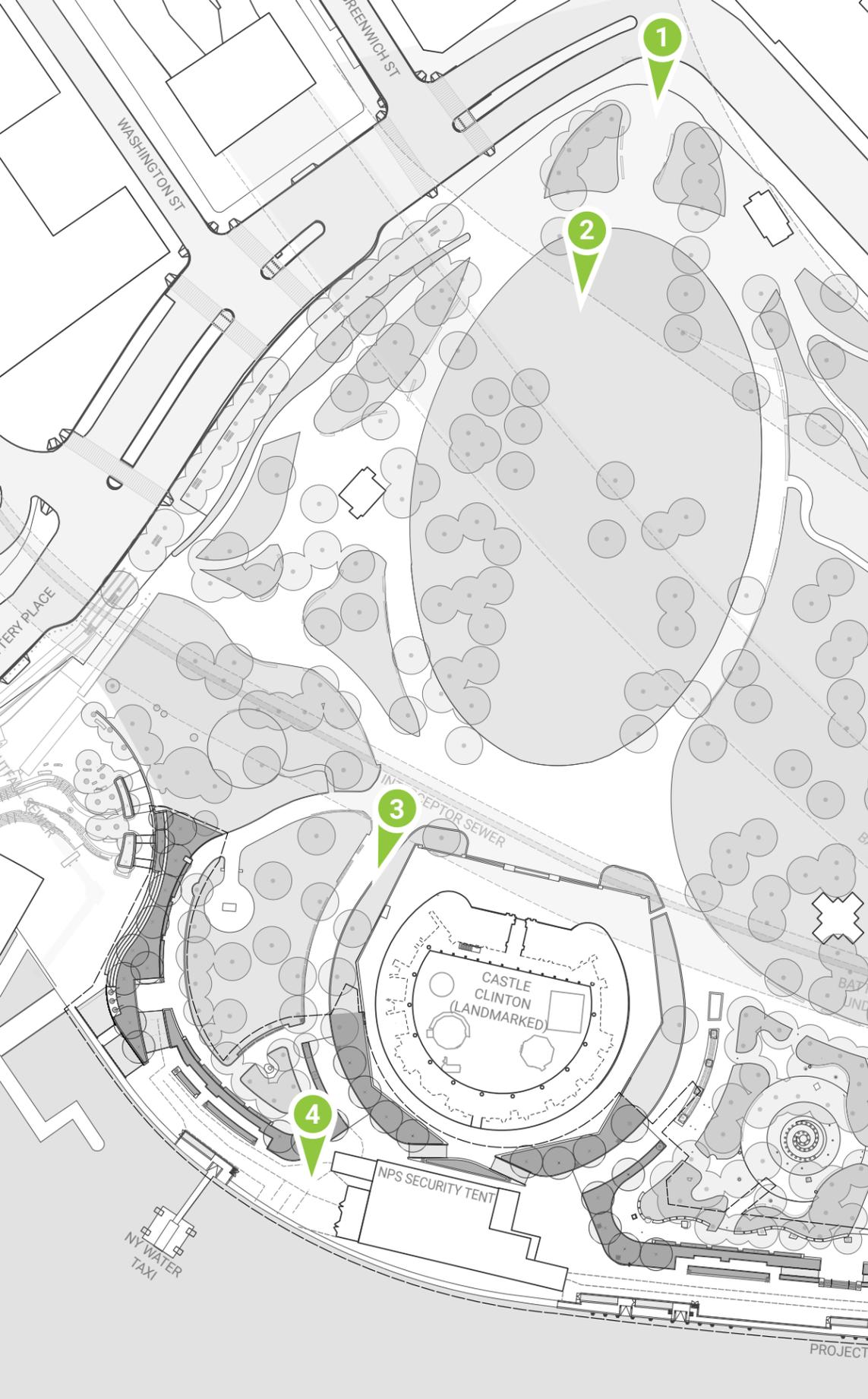
NPS LIGHTING BY OTHERS

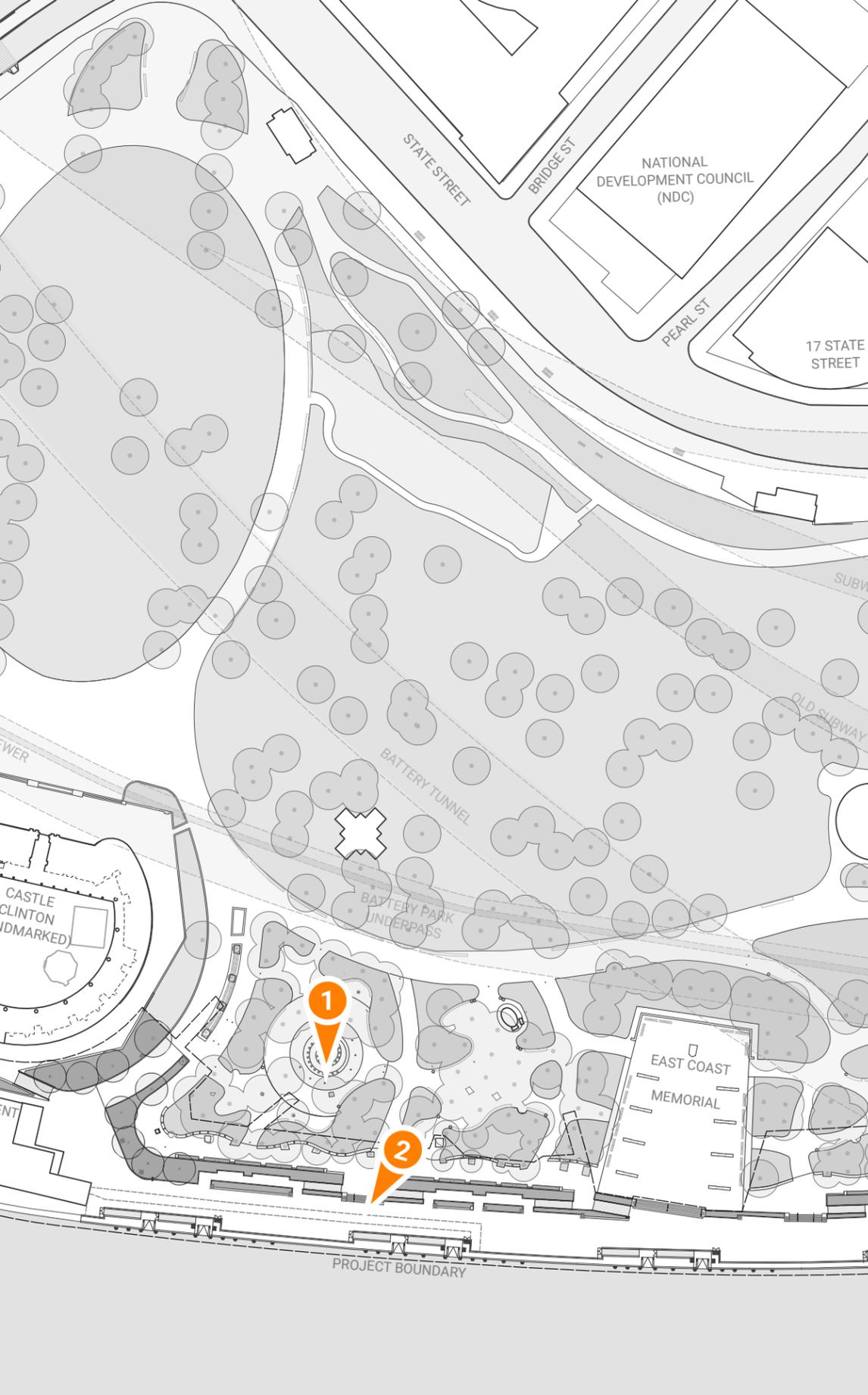
LIGHT POLES PROVIDED ON MEMORIAL PEDESTALS

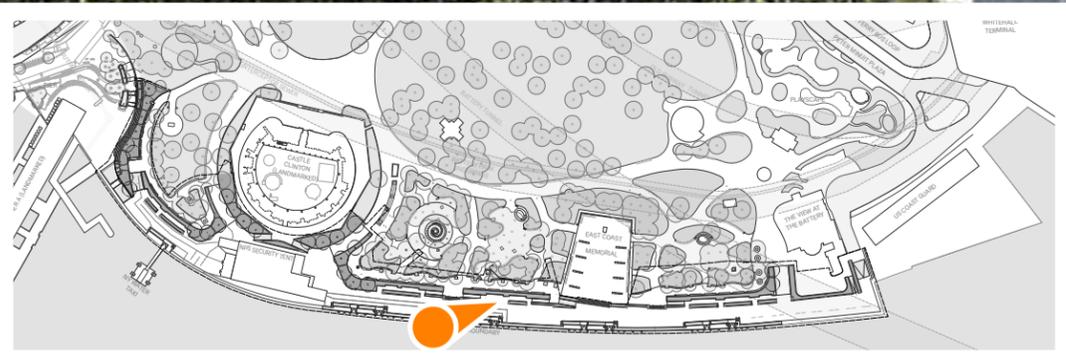
LEGEND

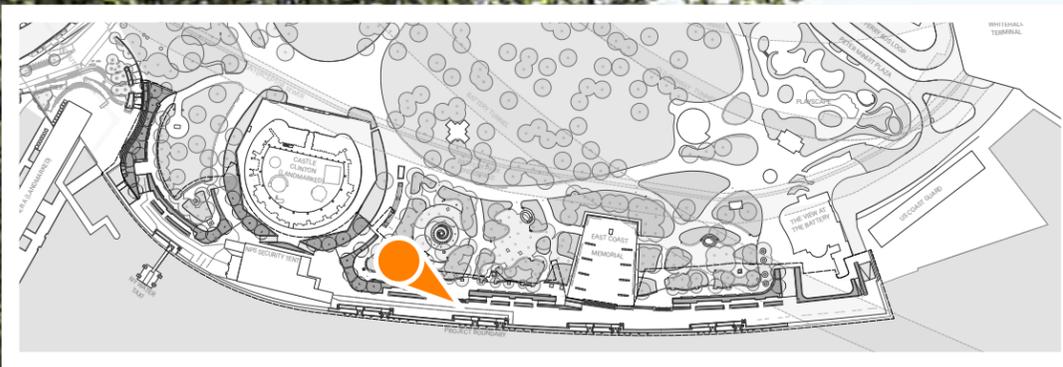
- ACCEPTABLE LIGHT LEVELS
- PROTECTED SCREENING AREA
- PROJECT LIMIT LINE
- EXISTING RIVERSIDE LUMINAIRE ON B-POLE (NYCDOT MAINTAINED)
- EXISTING EAST COAST MEMORIAL LAMPPOST (NYCDOT MAINTAINED)
- PROPOSED RIVERSIDE LUMINAIRE ON B-POLE (NYCDOT MAINTAINED)
- RECESSED LIGHT FIXTURE (NYCDPR OWNED AND MAINTAINED)



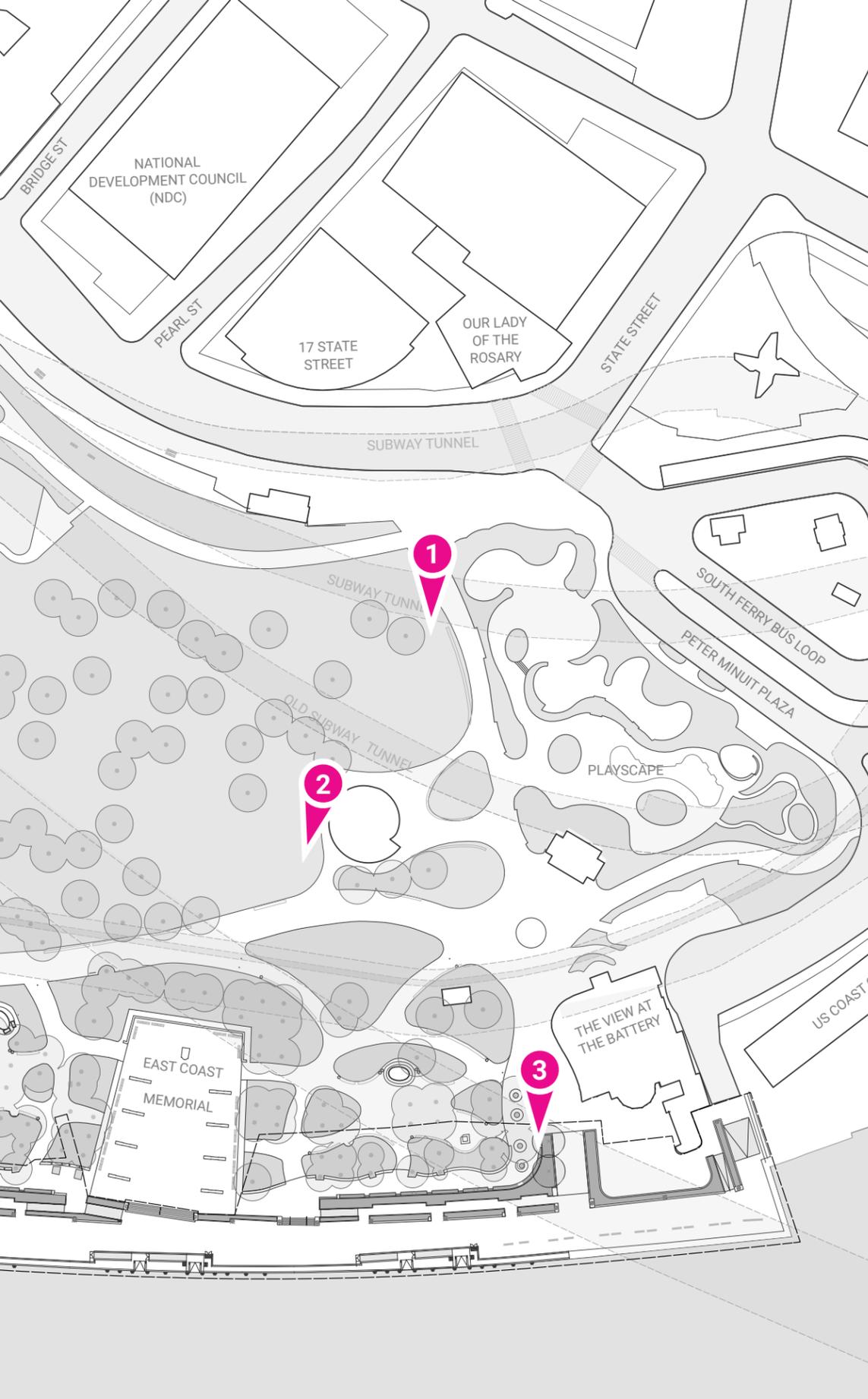


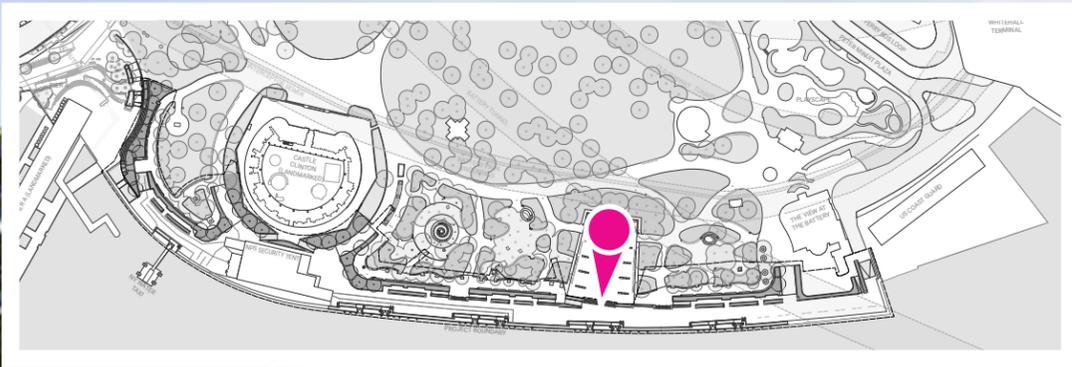


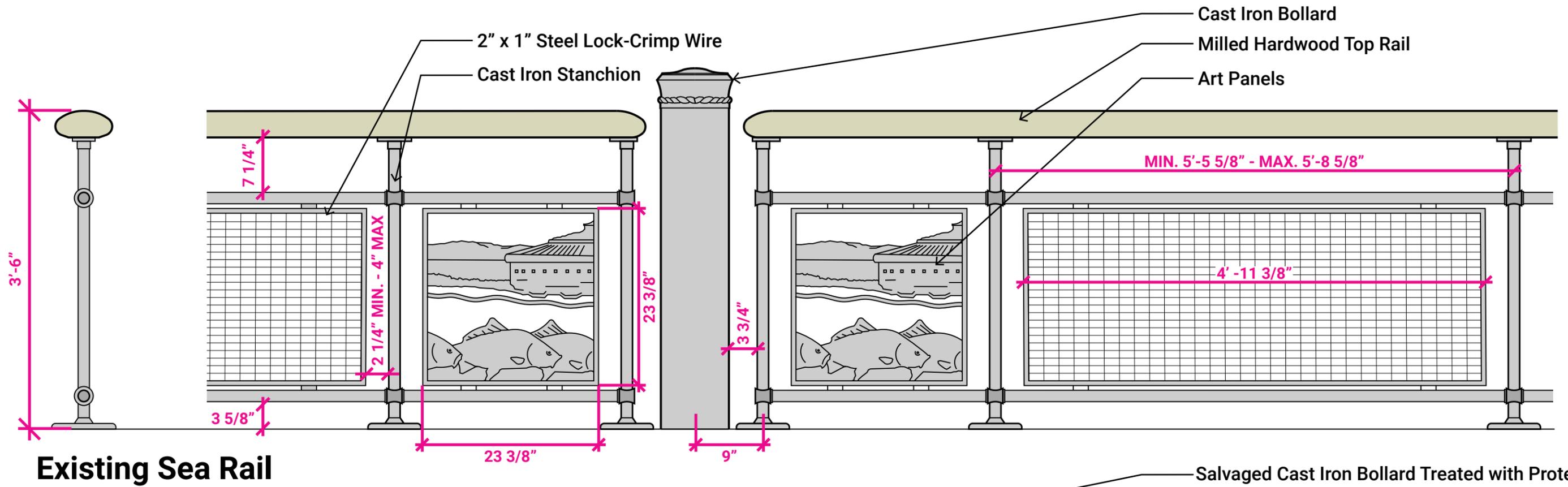




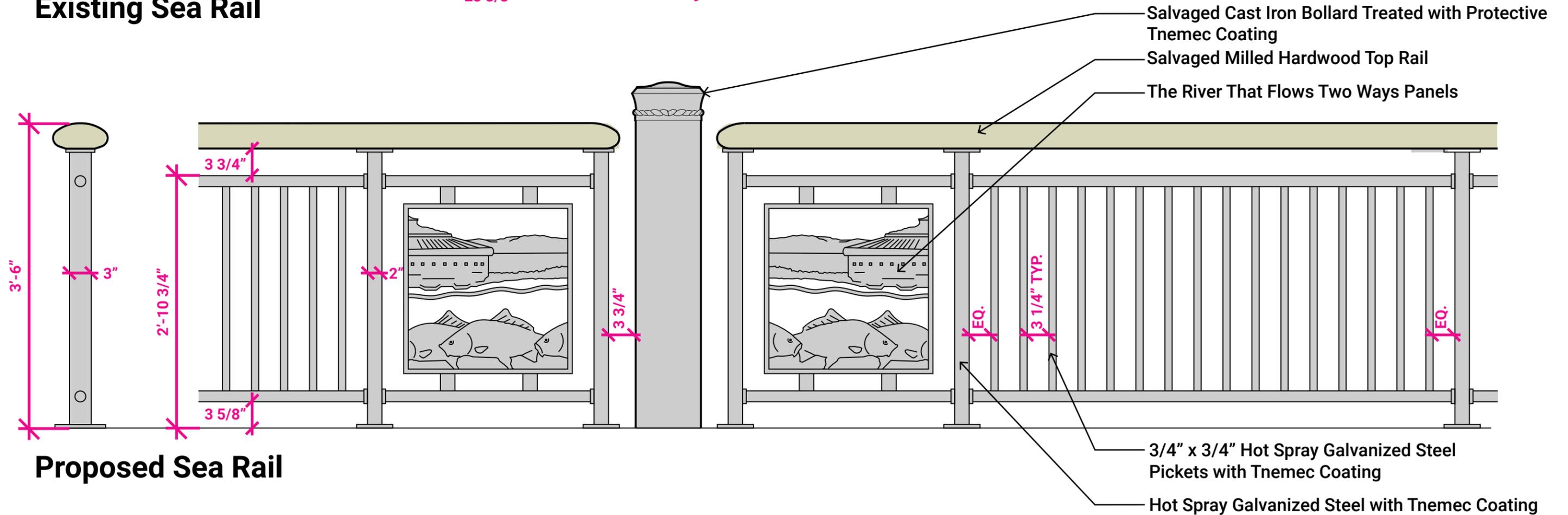
Companion Seat



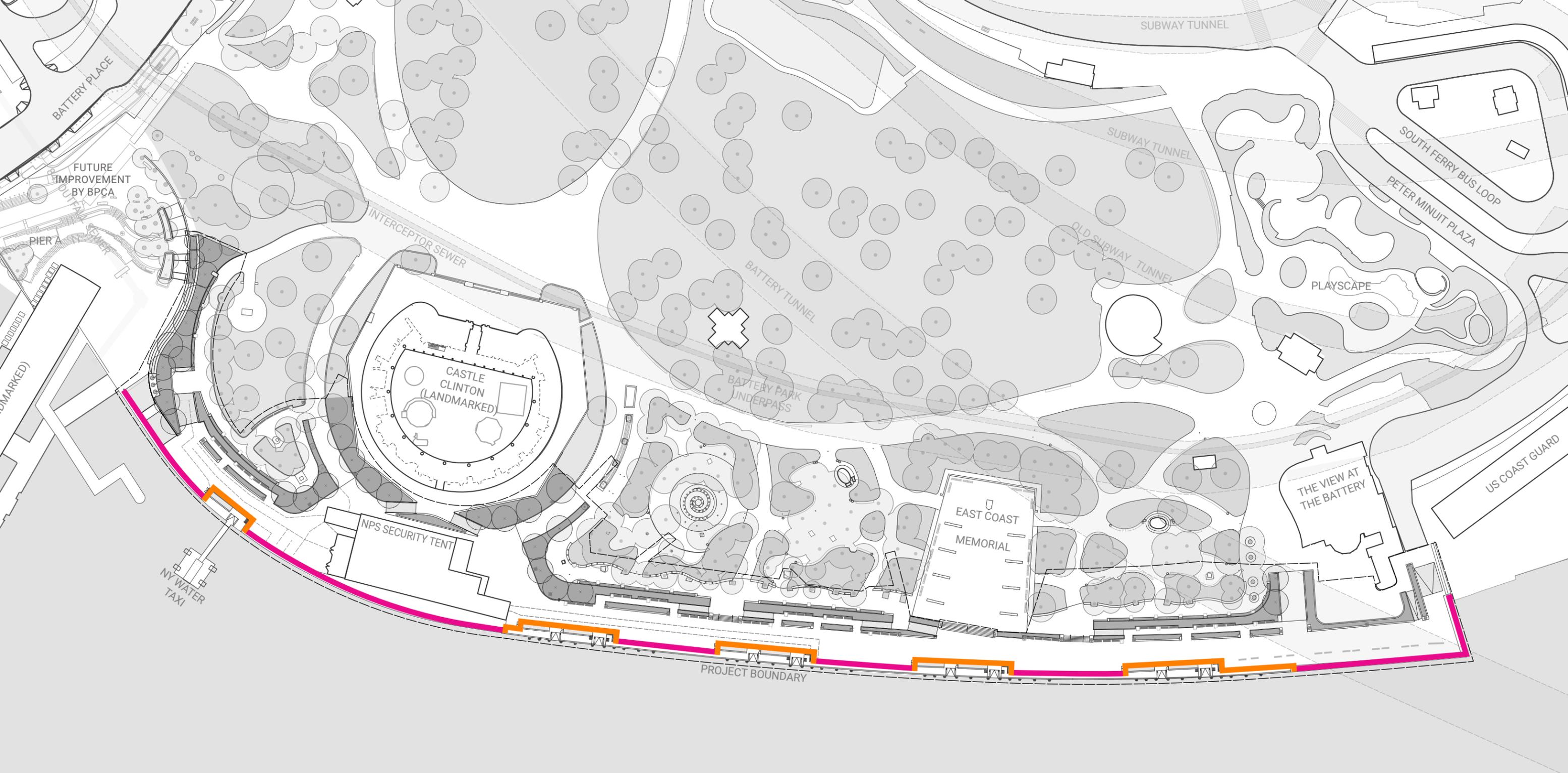




Existing Sea Rail



Proposed Sea Rail

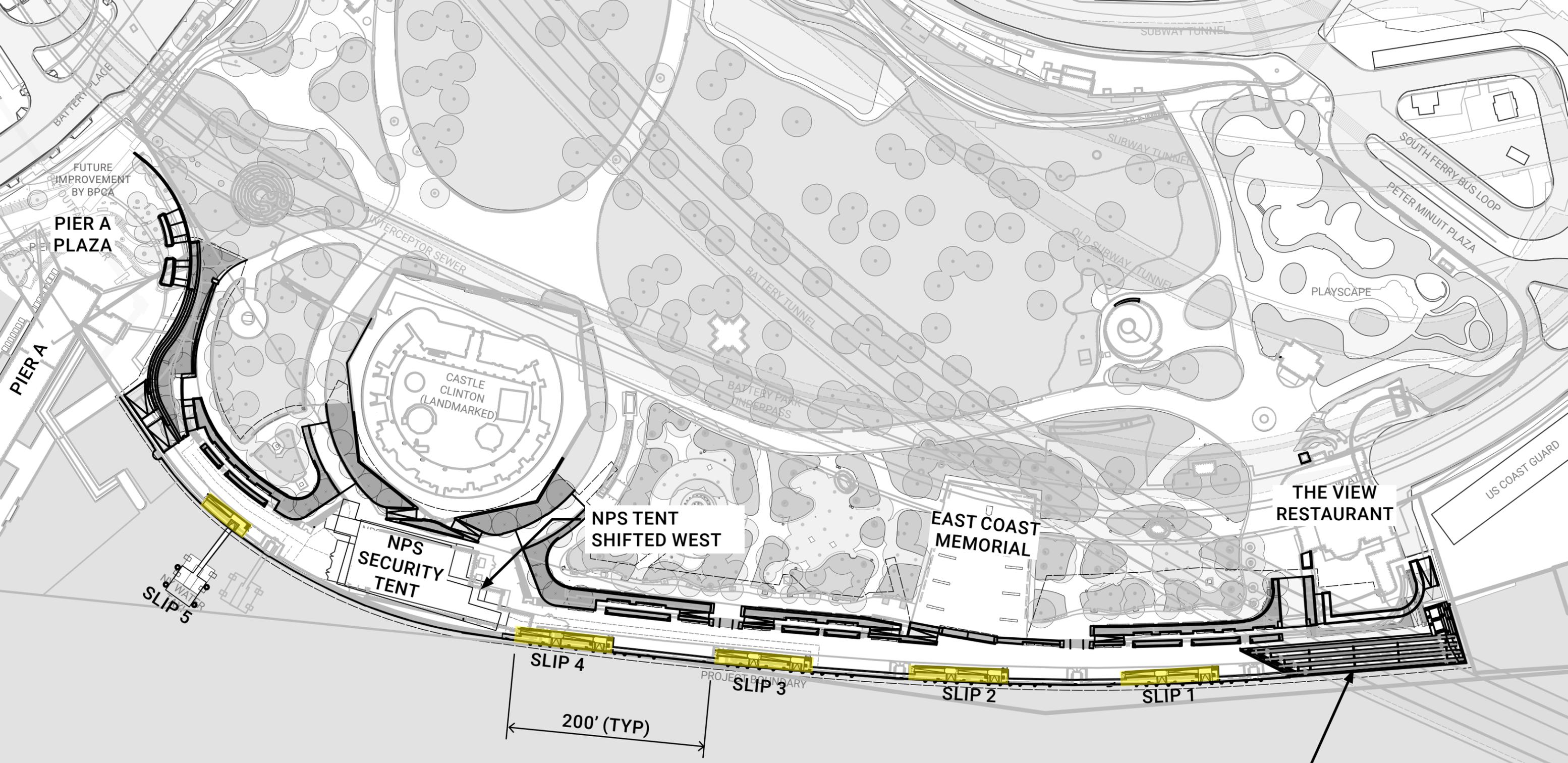


LEGEND

- WOOD TOP RAIL
- METAL TOP RAIL

MATERIAL QUANTITIES

EXISTING WOOD TOP RAIL	1275 LF @85% REUSE	1500 LF	CAST IRON BOLLARDS	19 PROPOSED (18 EXISTING)
WATERFRONT WOOD TOP RAIL	1000 LF	1500 LF	ART PANELS	37 PROPOSED (36 EXISTING, 1 MISSING)
SLIPS METAL TOP RAIL	600 LF			



LEGEND

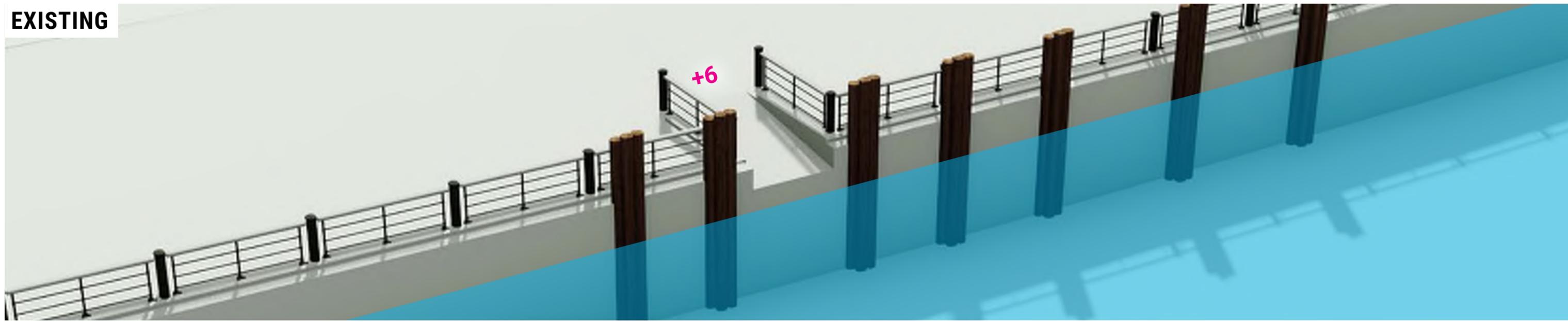
 SLIP

NEW YORK HARBOR

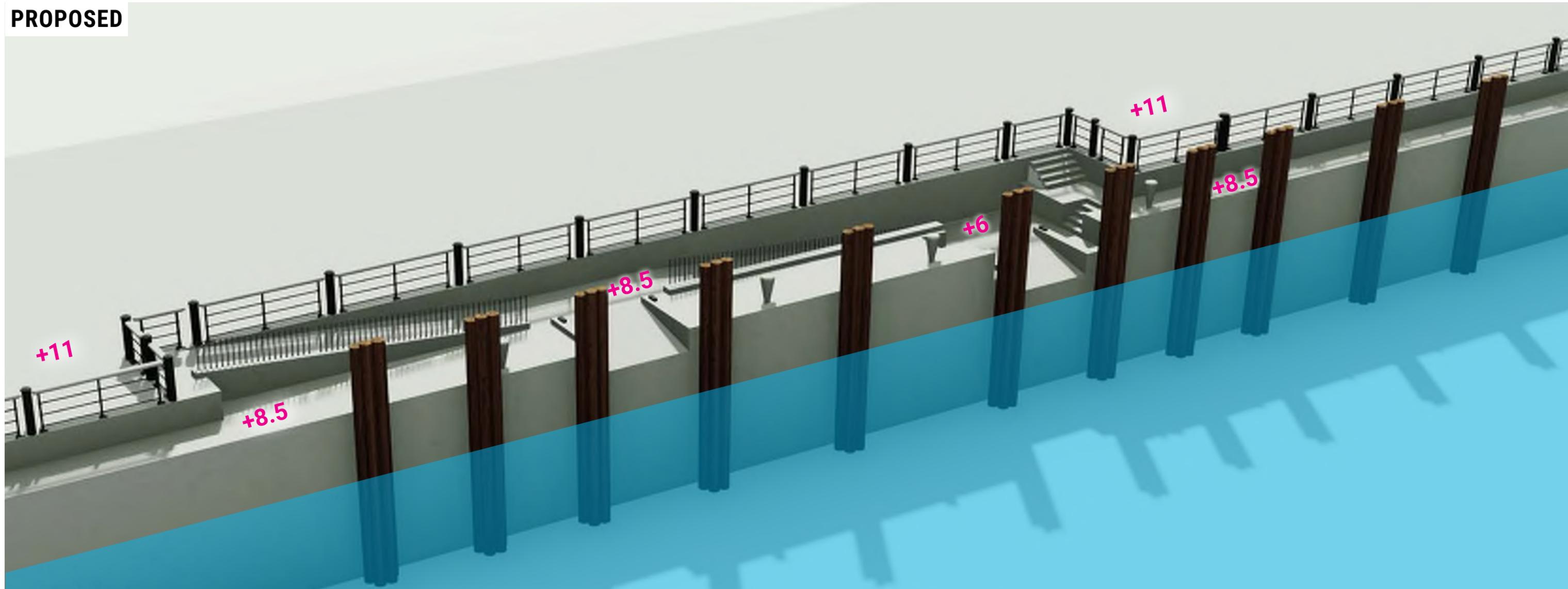
BRIDGE STRUCTURE
OVER HUGH L. CAREY
TUNNEL



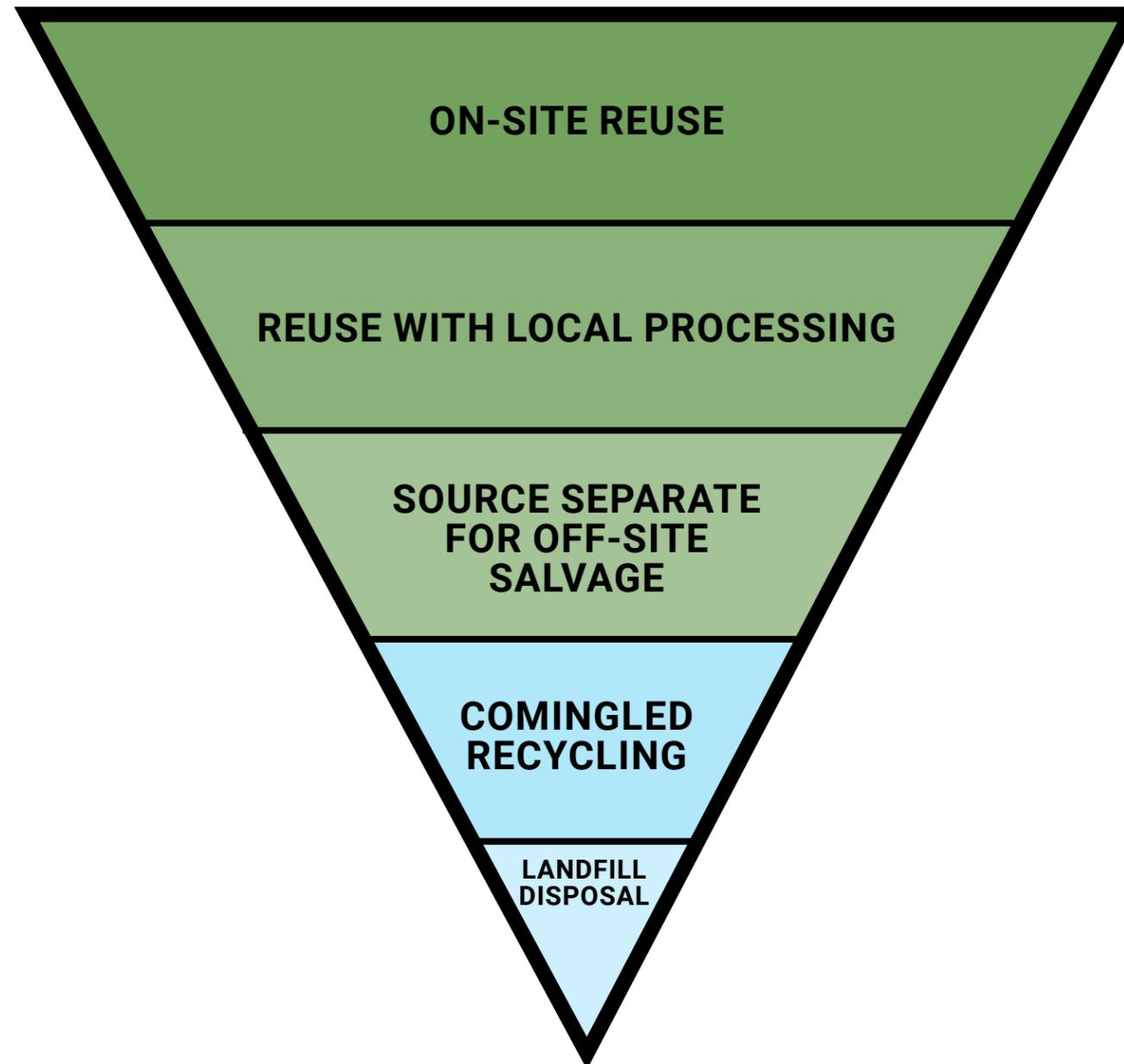
EXISTING



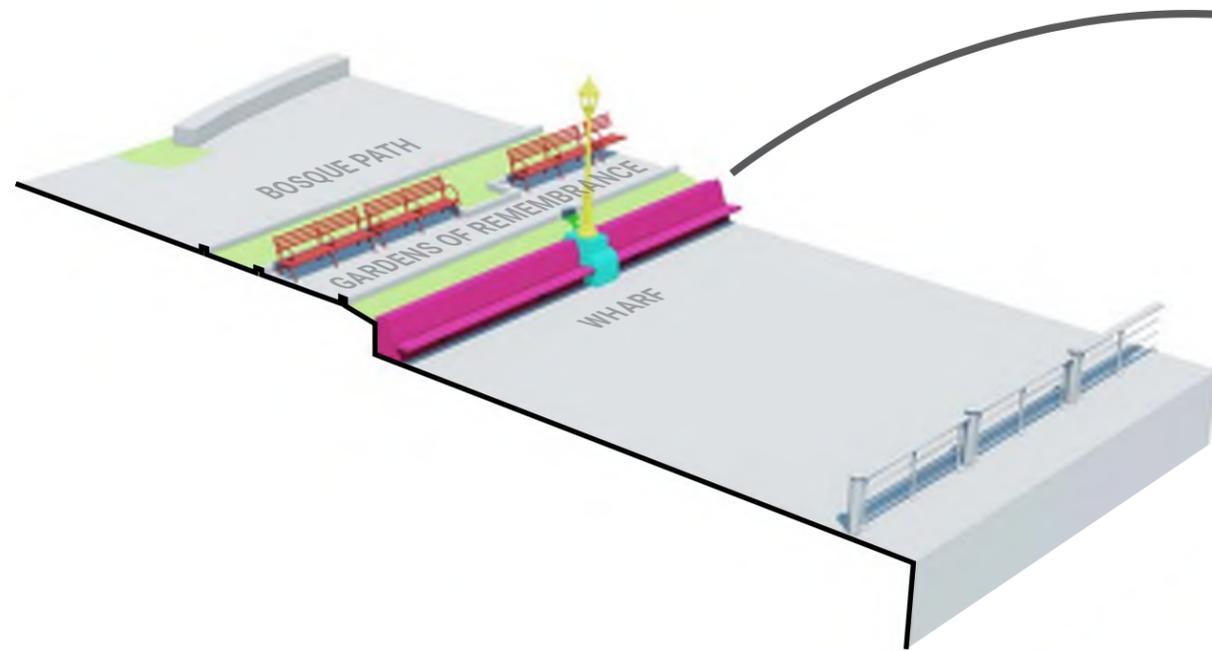
PROPOSED



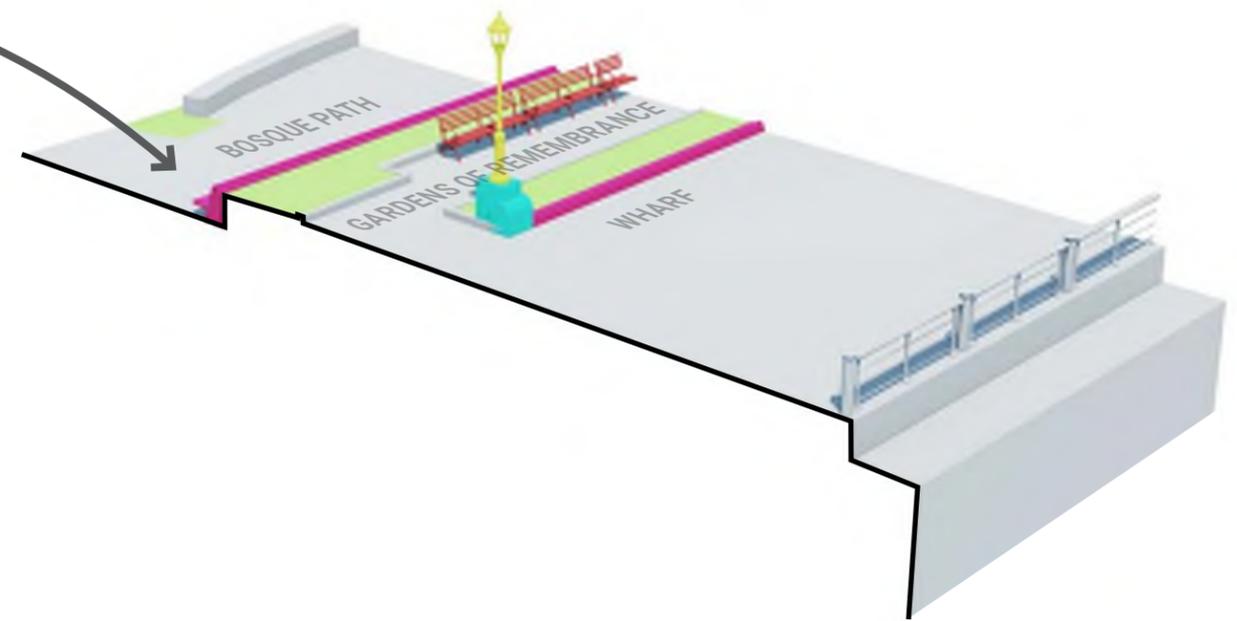
BATTERY WASTE MANAGEMENT HEIRARCHY



1. As much as possible, reuse materials that can be handled, processed, and stored on site while considering noise and air pollution impacts of reworking materials.
2. As much as possible, reuse materials that can be processed or reworked within 50 miles of the site.
3. For all other materials, as much as possible, source separate waste products and send to salvage yards within 50 miles of the site (including compost disposal).
4. For all other materials, as much as possible, comingle waste products and send to recycling facilities within 25 miles of the site.
5. For all other materials that cannot be salvaged or recycled, landfill disposal is a last resort.



EXISTING FEATURES LOCATION



PROPOSED RELOCATION

EXISTING FEATURES



GRANITE BACKED BENCH



PIER TYPES A,C,D



LIGHT FIXTURE



PIER A PLANTER

MOORING POSTS



MOORING CLEATS



GRANITE WALL AND CAP STONE



SCROLL PIER



PIER A LOW WALL CAPSTONE



GRANITE MONUMENTAL STAIRS



1939 WORLD'S FAIR BACKLESS BENCH



SEA RAIL BOLLARD



GRANITE COBBLESTONE AND HEX PAVER



GRANITE PIER



GRANITE RETAINING WALL



RIVERSIDE LUMINAIRE ON B-POLE



WHARF GRANITE FASCIA



SEARAIL WOOD



1939 WORLD'S FAIR BACKED BENCH



EAST COAST MEMORIAL PIER



GRANITE BACKED BENCH COPING



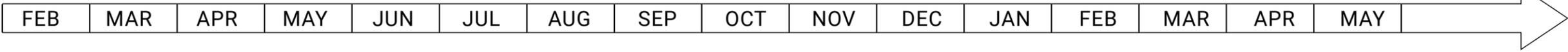
WOOD BENCH SEAT



**PDC PRELIMINARY
SUBMISSION DATE**

2021

2022



**STAKEHOLDER
ENGAGEMENT**

● PUBLIC MEETING
3/24

OUTREACH ROUND II
YOUR FEEDBACK!

OUTREACH ROUND III
YOUR FEEDBACK!

DESIGN PHASE 1

CONCEPT DESIGN (30%)

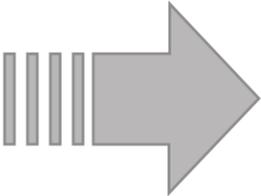
DESIGN PHASE 2

SCHEM. DESIGN (50%)

DESIGN PHASE 3

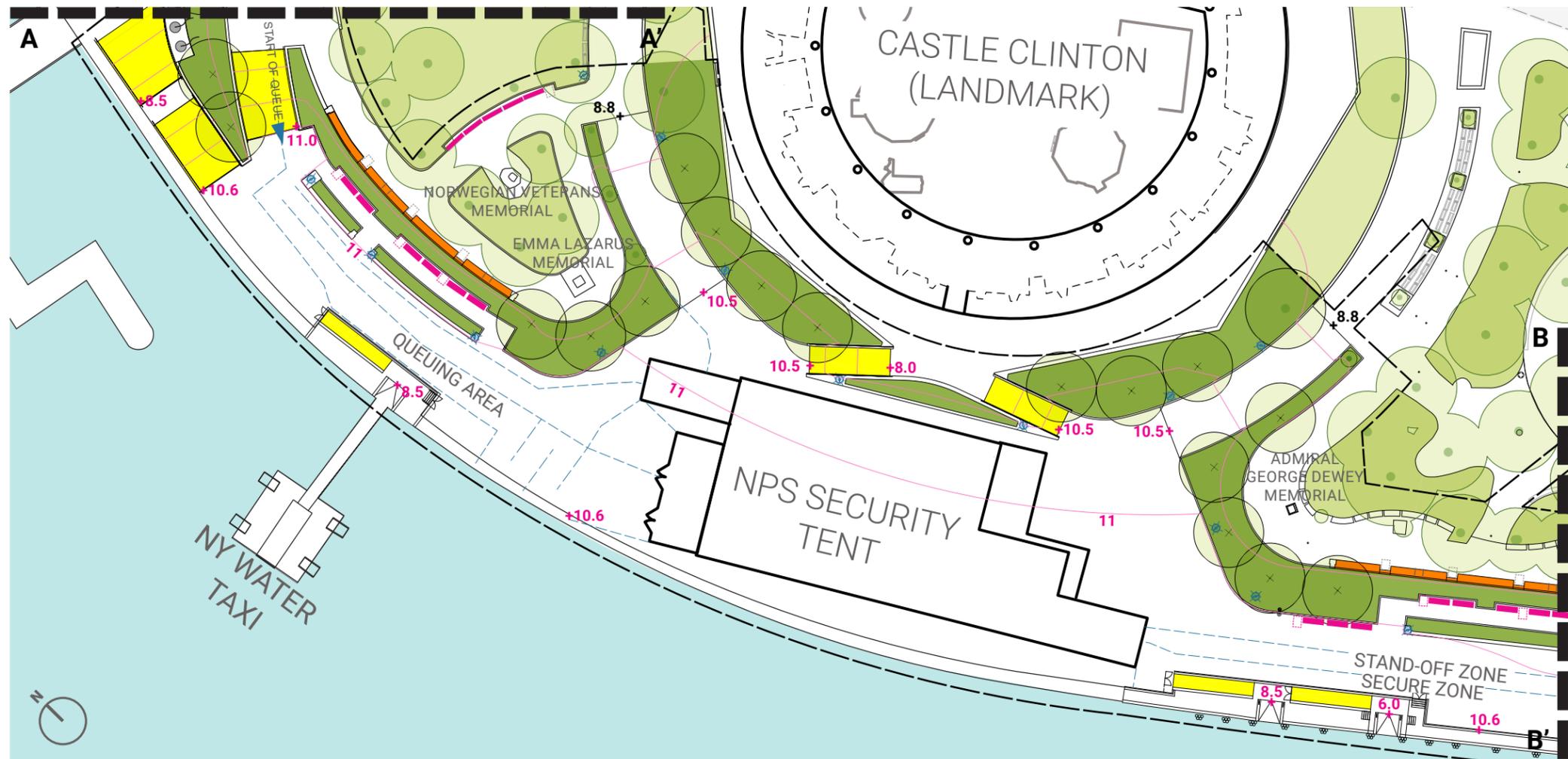
FINAL DESIGN (75-100%)

CONSTRUCTION



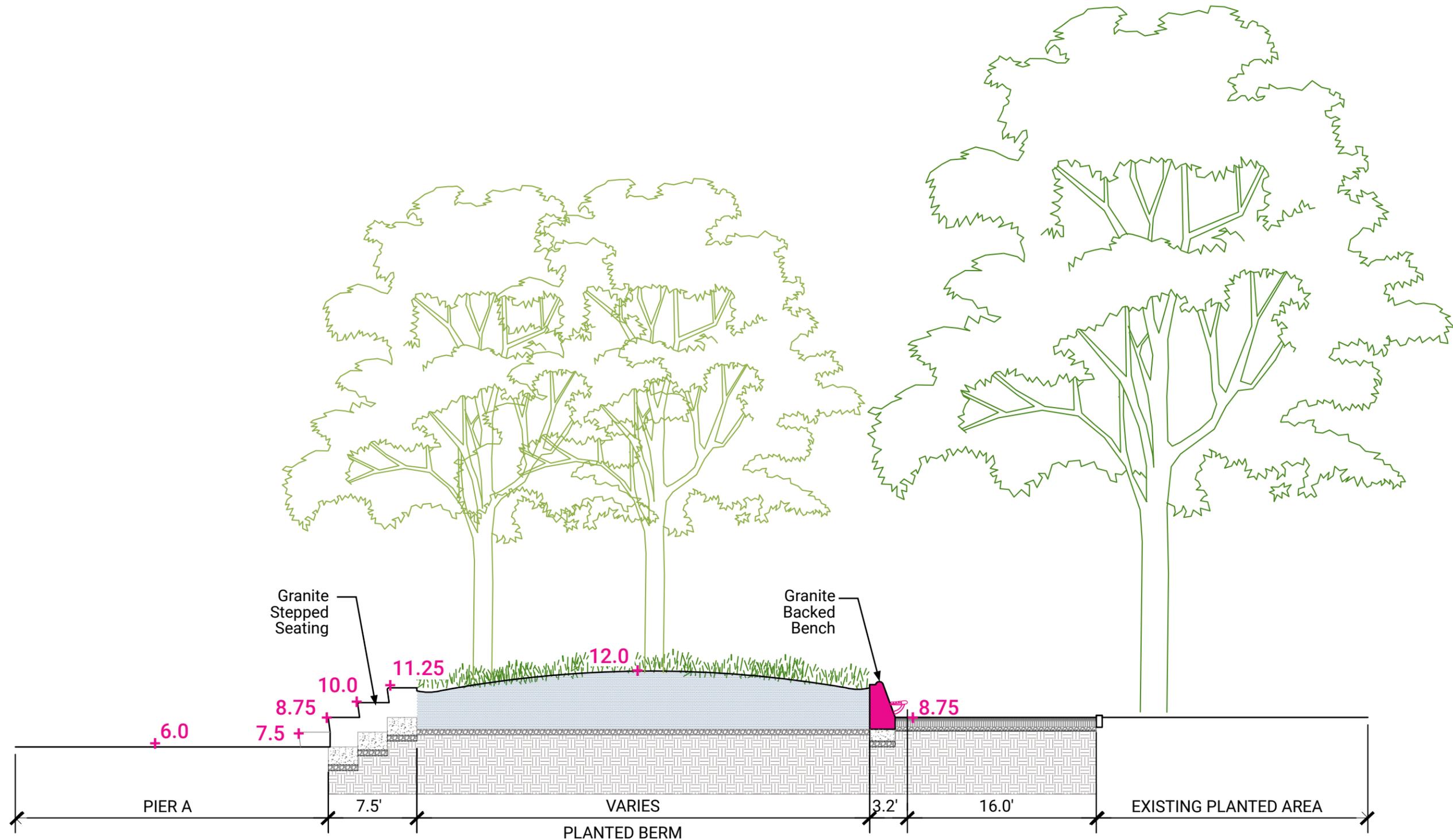
Thank you!

Appendix

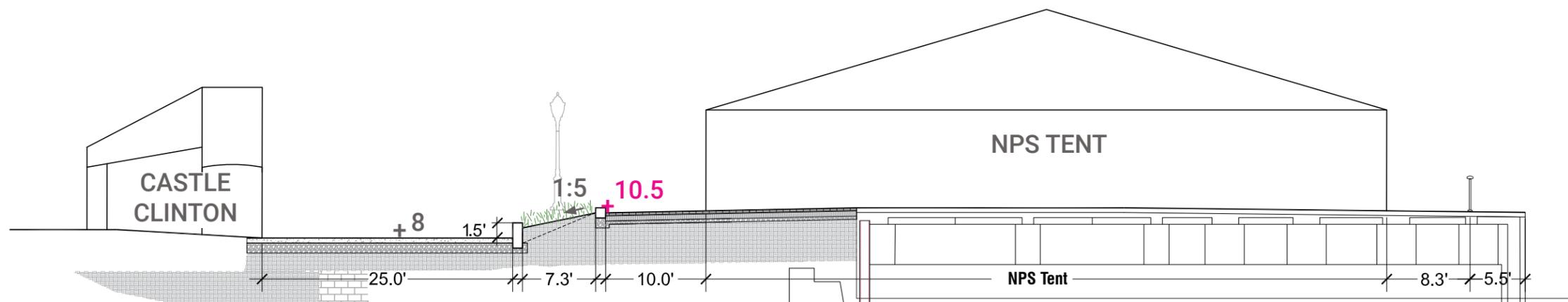
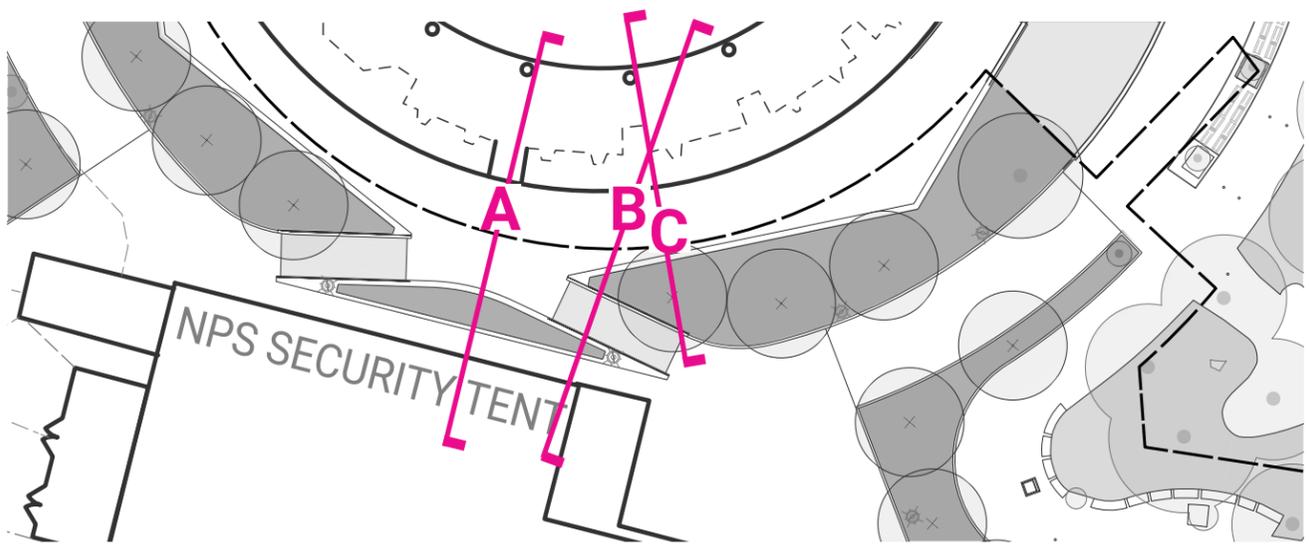


LEGEND

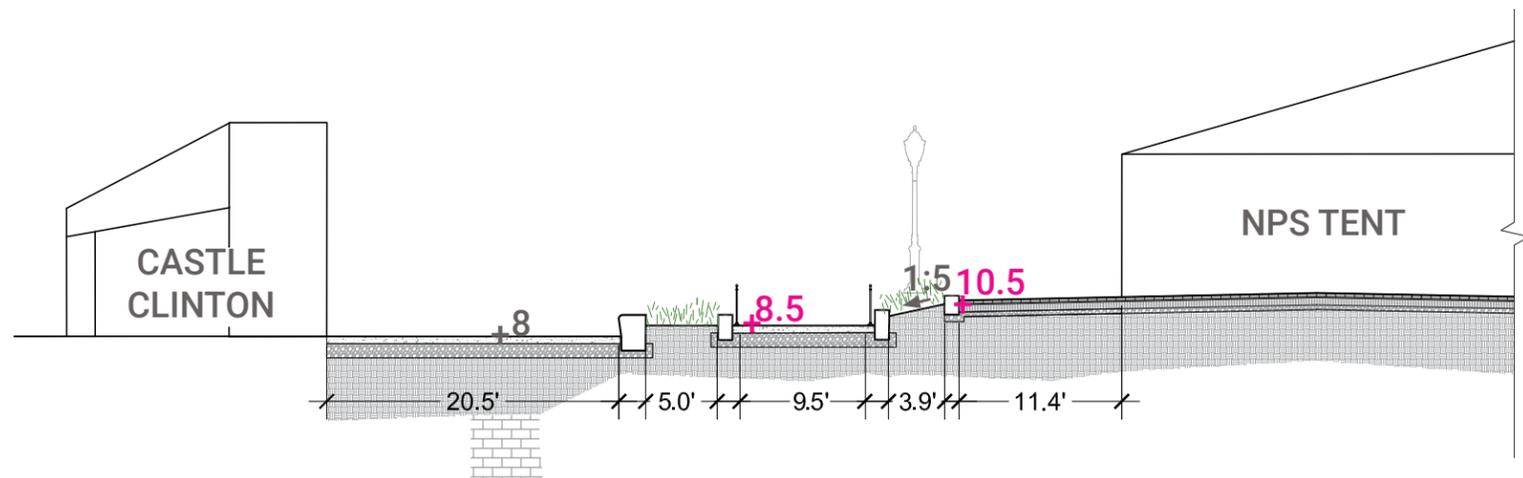
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- NEW / RESTORED PLANTING
- LIGHT
- SECURITY FENCING
- PROPOSED TREE



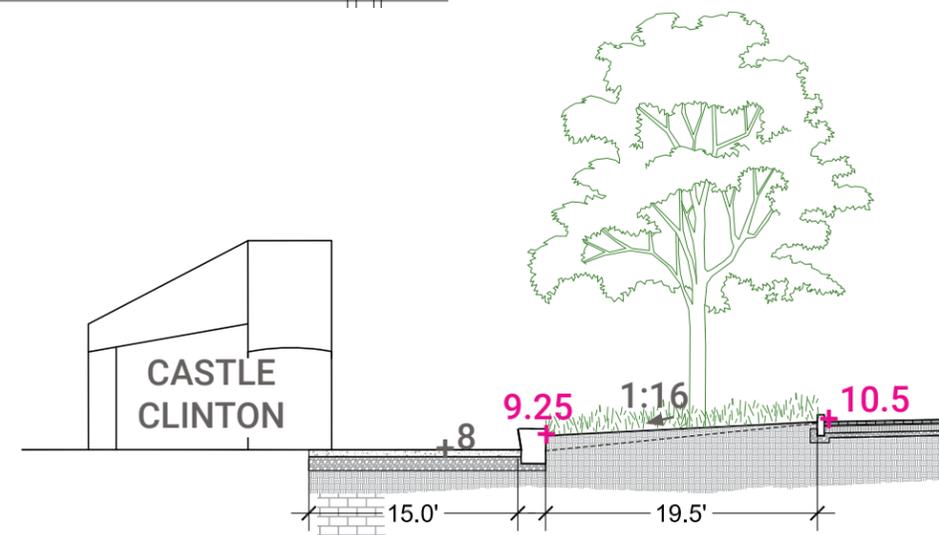
Section A



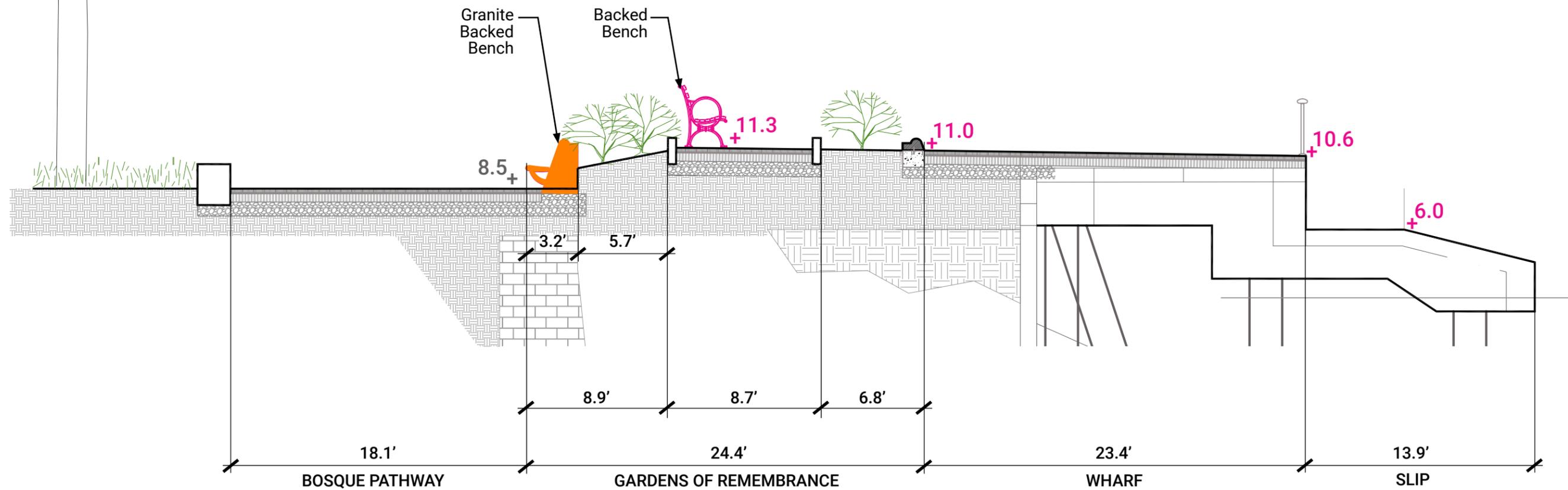
Section A



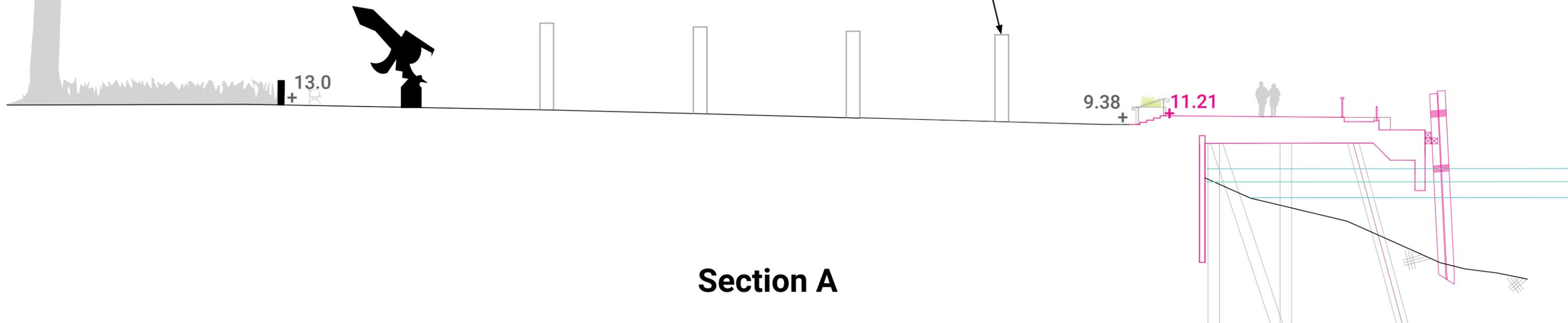
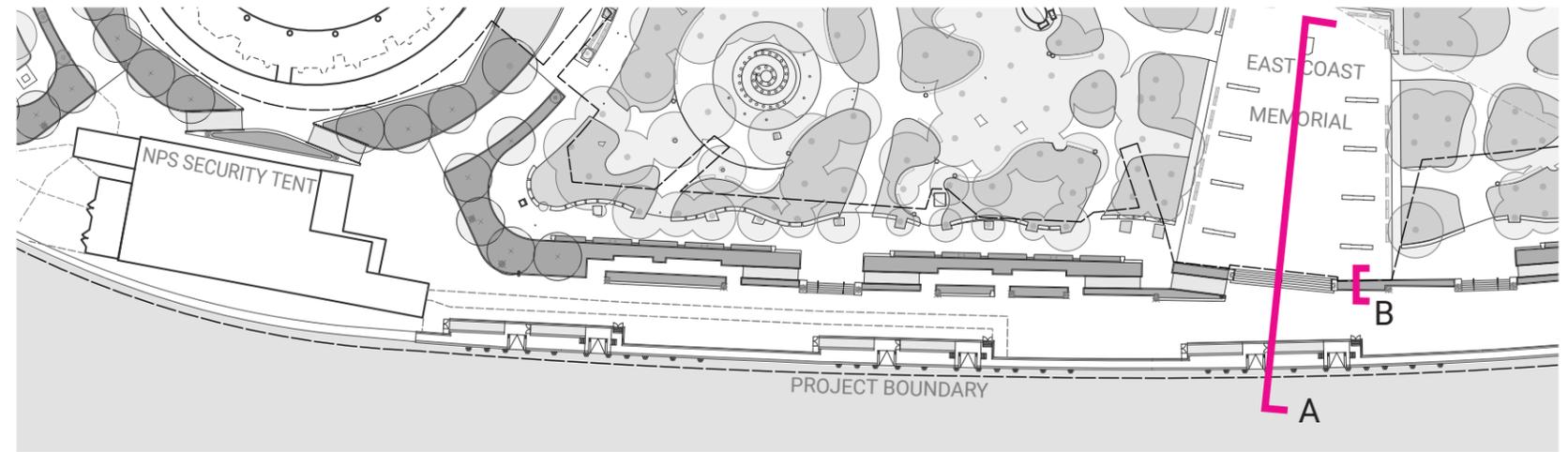
Section B



Section C



Section A-A'



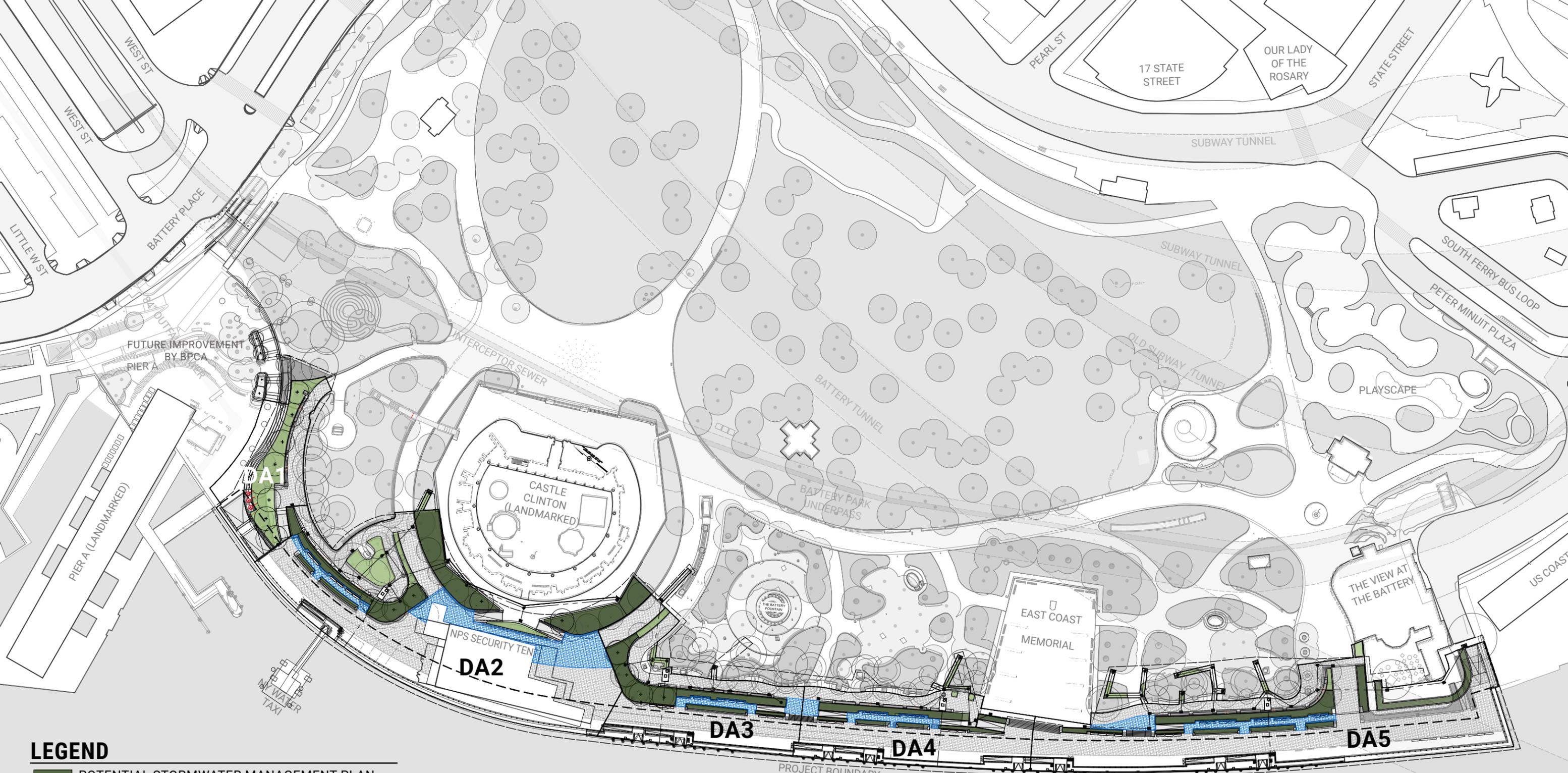


**EXISTING WHARF
& SLIP QUEUING**



**NATIONAL PARK SERVICE
PROPOSED 6 FOOT HIGH
BLACK WIRE MESH FENCE**

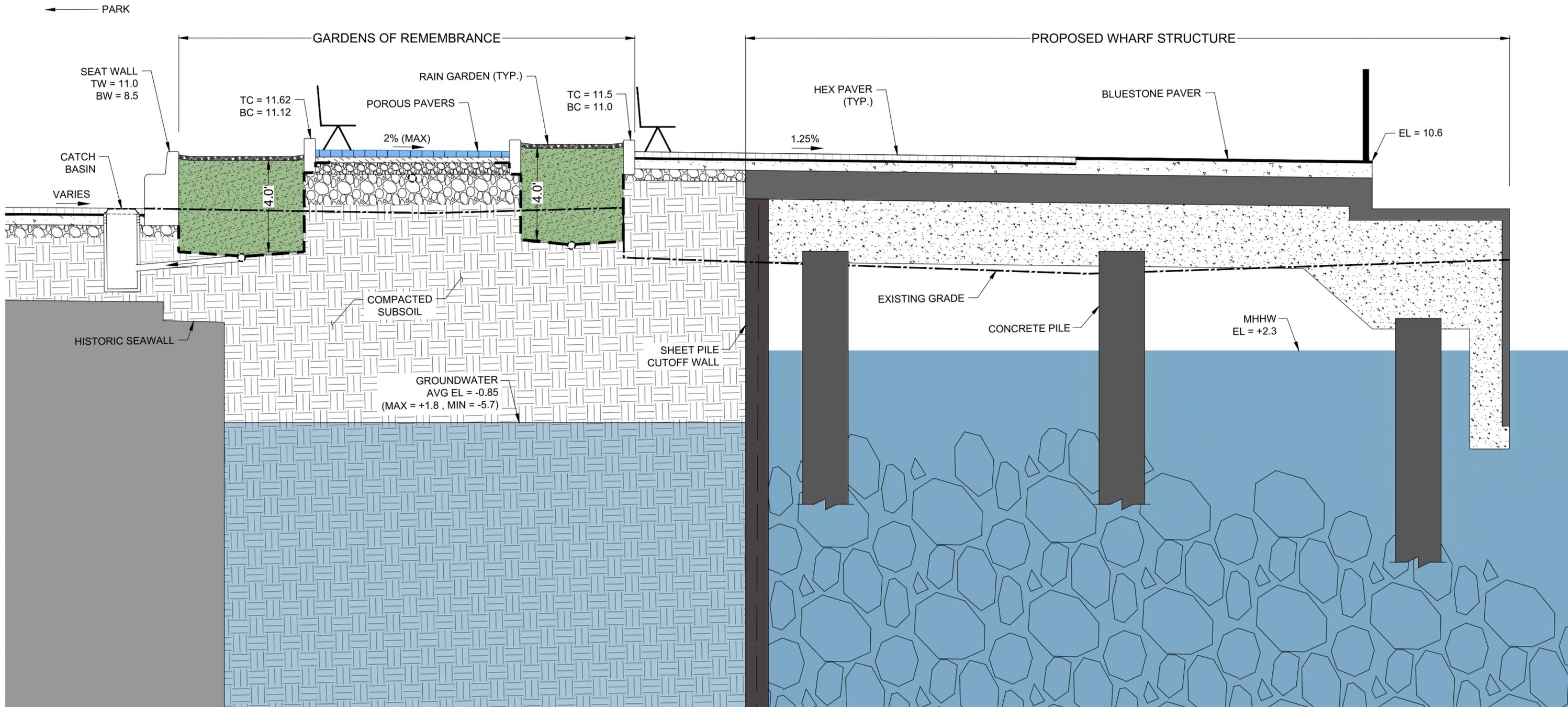
**PROPOSED
SLIP DESIGN**



LEGEND

- POTENTIAL STORMWATER MANAGEMENT PLAN
- PLANTED AREA NOT BEING CONSIDERED FOR SMP
- POTENTIAL AREA FOR POROUS PAVEMENT
- STANDARD PAVEMENT (NOT POROUS)
- EXISTING TREE CRZ
- DEVELOPMENT AREA BOUNDARY
- BACK OF PROPOSED WHARF STRUCTURE
- DA** DRAINAGE AREA





ZONE A

CHARACTERISTIC VISUALLY DOMINANT SPECIES

EMERGENTS

BLOCKS

BLOCKS	SIZE
<i>Achillea</i> 'Coronation Gold'	QT
<i>Achillea</i> 'Terra Cotta'	QT
<i>Allium</i> 'Millenium'	QT
<i>Allium moly</i>	bulb
<i>Allium</i> 'Summer Beauty'	LP50
<i>Amsonia</i> 'Blue Ice'	1G
<i>Anaphalis margaritacea</i>	QT
<i>Asclepias tuberosa</i>	QT
<i>Aster x frikartii</i> 'Mönch'	QT
<i>Crambe maritima</i>	QT
<i>Calamintha</i> (sterile cultivar)	LP50
<i>Echinacea pallida</i>	QT
<i>Echinacea tenesseeensis</i> 'Rocky Top'	QT
<i>Echinops bannaticus</i> 'Blue Glow'	QT
<i>Eriogonum allenii</i> 'Little Rascal'	QT
<i>Euphorbia polychroma</i>	QT
<i>Eurybia spectabilis</i>	1G
<i>Ionactis linariifolius</i>	QT
<i>Kalimeris incisa</i> 'Blue Star'	QT
<i>Kalimeris integrifolia</i> 'Daisy Mae'	QT
<i>Leucanthemum superbum</i> 'Snowcap'	QT
<i>Liatris microcephala</i>	QT
<i>Nepeta racemosa</i> 'Little Titch'	QT
<i>Origanum laevigatum</i> 'Herrenhausen'	QT
<i>Pycnanthemum virginianum</i>	QT
<i>Salvia</i> 'Caradonna'	QT
<i>Sedum</i> 'Matrona'	QT
<i>Sedum spectabile</i> 'Carmen'	QT
<i>Sesleria autumnalis</i>	DP50
<i>Sporobolus heterolepis</i>	1G
<i>Stachys monieri</i> 'Hummelo'	QT
<i>Zizia aptera</i>	QT
INTERPLANTED EMERGENTS	SIZE
<i>Allium</i> 'Purple Sensation'	bulb
<i>Echinacea paradoxa</i>	QT
<i>Eremurus bungei</i>	bulb
<i>Liatris aspera</i>	QT
<i>Liatris scariosa</i>	QT
<i>Lycoris squamigera</i>	bulb
<i>Molinia caerulea</i> ssp. <i>caerulea</i> 'Moorhexe'	1G
<i>Schizachyrium scoparium</i> 'Standing Ovation'	1G
GROUND COVERS	SIZE
<i>Antennaria plantaginifolia</i>	LP50
<i>Symphotrichum ericoides</i> 'Snow Flurry'	LP50
SPRING BULBS	SIZE
<i>Narcissus</i> 'Hawera'	bulb
<i>Narcissus</i> 'Jetfire'	bulb
<i>Narcissus bulbocodium</i> 'Golden Bells'	bulb
<i>Narcissus obvallaris</i>	bulb
<i>Narcissus poeticus</i> var. <i>recurvus</i>	bulb



Liatris spicata



Rudbeckia maxima



Salvia nemorosa 'Caradonna'



Allium 'Millenium'



Molinia caerulea subsp. *caerulea* 'Moorhexe'



Allium 'Purple Sensation'



Stachys officinalis 'Hummelo'



Eurybia spectabilis

Bold plant names indicate original Piet Oudolf species that will be reused in the new design.

ZONE B

BLOCKS	SIZE
<i>Achillea</i> 'Moonshine'	QT
<i>Achillea</i> 'Terra Cotta'	QT
<i>Agastache</i> 'Black Adder'	QT
<i>Amsonia</i> 'Blue Ice'	1G
<i>Anaphalis margaritacea</i>	QT
<i>Asclepias tuberosa</i>	QT
<i>Aster x frikartii</i> 'Mönch'	QT
<i>Calamintha</i> (sterile cultivar)	LP50
<i>Echinacea pallida</i>	QT
<i>Echinacea</i> 'Rubinstern'	QT
<i>Echinacea tennesseensis</i> 'Rocky Top'	QT
<i>Echinops bannaticus</i> 'Blue Glow'	QT
<i>Eurybia macrophylla</i> 'Twilight'	QT
<i>Hemerocallis</i> 'Gentle Shepherd'	1G
<i>Hemerocallis</i> 'Prairie Blue Eyes'	1G
<i>Kalimeris incisa</i> 'Blue Star'	QT
<i>Kalimeris integrifolia</i> 'Daisy Mae'	QT
<i>Leucanthemum superbum</i> 'Snowcap'	QT
<i>Nepeta racemosa</i> 'Walker's Low'	QT
<i>Nepeta sibirica</i> 'Souvenir d'Andre'	QT
<i>Origanum laevigatum</i> 'Herrenhausen'	QT
<i>Pycnanthemum incanum</i> 'Stowe Away'	QT
<i>Pycnanthemum virginianum</i>	QT
<i>Salvia</i> 'Caradonna'	QT
<i>Sedum</i> 'Matrona'	QT
<i>Stachys monieri</i> 'Hummelo'	QT

INTERPLANTED EMERGENTS	SIZE
<i>Allium</i> 'Purple Sensation'	bulb
<i>Angelica atropurpurea</i>	1G
<i>Angelica dahurica</i>	1G
<i>Baptisia</i> 'Purple Smoke'	1G
<i>Cephalaria gigantea</i>	QT
<i>Eremurus</i> cultivar	bulb
<i>Eryngium yuccifolium</i>	QT
<i>Liatis aspera</i>	QT
<i>Liatis scariosa</i>	QT
<i>Lilium spec.</i>	QT
<i>Molinia caerulea</i> ssp. <i>arundinacea</i> 'Skyracer'	1G
<i>Patrinia scabiosifolia</i>	QT
<i>Penstemon digitalis</i> 'Husker Red'	QT
<i>Perovskia atriplicifolia</i> 'Superba'	1G
<i>Rudbeckia maxima</i>	1G
<i>Sanguisorba canadensis</i>	QT
<i>Silphium laciniatum</i>	1G
<i>Silphium terebinthinaceum</i>	1G
<i>Sorghastrum nutans</i> 'Golden Sunset'	1G
<i>Sporobolus heterolepis</i>	1G
<i>Sporobolus wrightii</i> 'Windbreaker'	1G
<i>Stipa gigantea</i>	1G
<i>Stenanthium gramineum</i>	QT
<i>Thalictrum dasycarpum</i>	1G
<i>Thalictrum rochebrunianum</i>	1G
<i>Thermopsis caroliniana</i>	1G

CHARACTERISTIC VISUALLY DOMINANT SPECIES

EMERGENTS



Eryngium yuccifolium + *Agastache* 'Black Adder'



Patrinia scabiosifolia

BLOCKS



Amsonia 'Blue Ice'



Calamintha 'Triumphator'



Rudbeckia maxima



Liatis aspera



Achillea 'Moonshine' + *Echinops bannat.* 'Blue Glow'



Eurybia macrophylla 'Twilight'

SPRING BULBS	SIZE
<i>Narcissus</i> 'Hawera'	bulb
<i>Narcissus</i> 'Jetfire'	bulb
<i>Narcissus poeticus</i> var. <i>recurvus</i>	bulb

GROUND COVERS	SIZE
<i>Antennaria plantaginifolia</i>	LP50
<i>Chrysogonum virginianum</i> var. <i>australe</i>	LP32
<i>Symphyotrichum ericoides</i> 'Snow Flurry'	LP50

Bold plant names indicate original Piet Oudolf species that will be reused in the new design.

ZONE C

CHARACTERISTIC VISUALLY DOMINANT SPECIES

EMERGENTS

BLOCKS

BLOCKS	SIZE
<i>Ageratina altissima</i> 'Chocolate'	QT
<i>Amsonia illustris</i>	1G
<i>Anemone hupehensis</i> var. <i>japonica</i> 'Pamina'	1G
<i>Anemone</i> 'Wild Swan'	QT
<i>Dryopteris erythrosora</i> 'Brilliance'	1G
<i>Epimedium</i> 'Lilafee'	QT
<i>Epimedium sulphureum</i>	QT
<i>Eurybia divaricata</i>	QT
<i>Eurybia divaricata</i> 'Eastern Star'	QT
<i>Eurybia macrophylla</i> 'Twilight'	QT
<i>Geranium maculatum</i> 'Espresso'	QT
<i>Hakonechloa macra</i>	QT
<i>Helianthus occidentalis</i>	QT
<i>Helleborus</i> cultivar	QT
<i>Hemerocallis</i> 'Gentle Shepherd'	1G
<i>Hemerocallis</i> 'Prairie Blue Eyes'	1G
<i>Heuchera</i> 'Autumn Bride'	QT
<i>Hosta</i> 'Blue Angel'	QT
<i>Hosta</i> 'Halcyon'	QT
<i>Kalimeris incisa</i> 'Blue Star'	QT
<i>Kalimeris integrifolia</i> 'Daisy Mae'	QT
<i>Kirengeshoma palmata</i>	QT
<i>Monarda bradburiana</i>	QT
<i>Phlox carolina</i> 'Kim'	QT
<i>Phlox paniculata</i> 'Jeana'	1G
<i>Polystichum polyblepharum</i>	QT
<i>Porteranthus trifoliatus</i>	1G
<i>Scutellaria incana</i>	QT
<i>Symphotrichum cordifolium</i>	QT
<i>Symphotrichum shortii</i>	QT
<i>Tricyrtis hirta</i> 'Miyazaki'	QT
<i>Tricirtis</i> 'Sinonome'	QT
<i>Zizia aurea</i>	QT

GROUND COVERS	SIZE
<i>Carex pennsylvanica</i>	LP50
<i>Chrysogonum virginianum</i> var. <i>australe</i>	LP32
<i>Erigeron pulchellus</i> 'Lynnhaven Carpet'	LP32
<i>Packera obovata</i>	LP32

SPRING BULBS	SIZE
<i>Crocus flavus</i>	bulb
<i>Crocus sieberi</i> 'Firefly'	bulb
<i>Crocus tommasinianus</i> 'Ruby Giant'	bulb
<i>Eranthis hyemalis</i>	bulb
<i>Galanthus elwesii</i>	bulb
<i>Galanthus woronowii</i>	bulb
<i>Ipheion uniflorum</i>	bulb
<i>Muscari armeniacum</i>	bulb
<i>Narcissus</i> 'Hawera'	bulb
<i>Narcissus</i> 'Jetfire'	bulb
<i>Narcissus bulbocodium</i> 'Golden Bells'	bulb
<i>Narcissus obvallaris</i>	bulb
<i>Narcissus poeticus</i> var. <i>recurvus</i>	bulb



Veronicastrum virginicum 'Fascination'



Doellingeria umbellata



Monarda bradburiana



Eurybia macrophylla 'Twilight'



Anemone 'Honorine Jobert'



Cimicifuga racemosa 'Queen of Sheba'



Porteranthus trifoliatus



Phlox carolina 'Kim'

INTERPLANTED EMERGENTS	SIZE
<i>Anemone</i> 'Honorine Jobert'	1G
<i>Astilbe</i> 'Purpurkerze'	QT
<i>Cimicifuga racemosa</i> 'Queen of Sheba'	1G
<i>Coreopsis</i> 'Gilded Lace'	1G
<i>Doellingeria umbellata</i>	QT
<i>Helianthus occidentalis</i>	1G
<i>Panicum virgatum</i> 'Shenandoah'	1G
<i>Parthenium integrifolium</i>	QT
<i>Veronicastrum virginicum</i> 'Fascination'	QT
<i>Veronicastrum virginicum</i> 'Lavendelturm'	QT

Bold plant names indicate original Piet Oudolf species that will be reused in the new design.

ZONE D

CHARACTERISTIC VISUALLY DOMINANT SPECIES

GROUND COVER PANICUM



Panicum virgatum 'Shenandoah' (in fall)

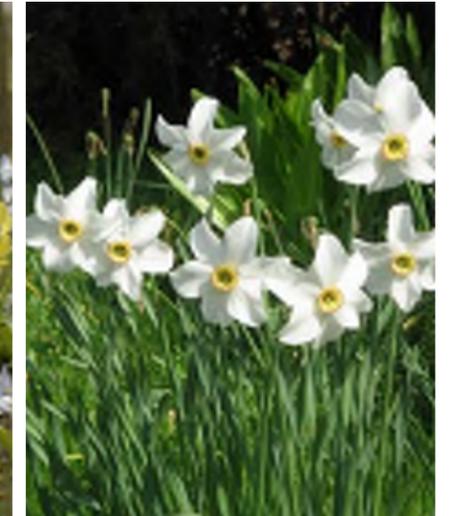
INTERPLANTED BULBS AND FORBS



Narcissus 'Jetfire' (early spring)



Narcissus 'Hawera' (mid spring)



Narcissus poeticus var. *recurvus* (late spring)

GROUND COVER	SIZE
<i>Panicum virgatum</i> 'Shenandoah'	LPS0
INTERPLANTED EMERGENTS	SIZE
<i>Eurybia macrophylla</i> 'Twilight'	QT
<i>Packera obovata</i>	LP32
<i>Phlox paniculata</i> 'Jeana'	QT
SPRING BULBS	SIZE
<i>Eranthis hyemalis</i>	bulb
<i>Galanthus elwesii</i>	bulb
<i>Galanthus waranowii</i>	bulb
<i>Iphigenia uniflorum</i>	bulb
<i>Narcissus</i> 'Hawera'	bulb
<i>Narcissus</i> 'Jetfire'	bulb
<i>Narcissus bulbocodium</i> 'Golden Bells'	bulb
<i>Narcissus obvallaris</i>	bulb
<i>Narcissus poeticus</i> var. <i>recurvus</i>	bulb



Panicum (in spring)



Panicum (in winter)



Packera obovata (image depicts similar *P. aurea*)



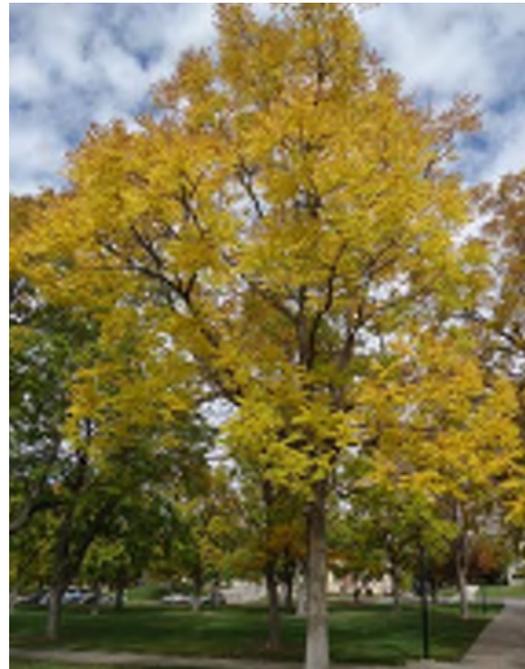
Phlox paniculata 'Jeana'



Eurybia macrophylla 'Twilight'

ZONE C + D

TREE SPECIES



Gymnocladus dioicus 'Stately Manor'



Platanus xacerifolia



Quercus bicolor



Quercus phellos



Ulmus 'Morton' ACCOLADE

ALL ZONES

ATTRACTIVE FALL AND WINTER CONTRAST

GRASSES



Panicum cultivar



Molinia and Deschampsia cultivars

FORBS



Stachys officinalis 'Hummelo'



Agastache and Astilbe



Calamagrostis spec.



Schizachyrium scoparium cultivar



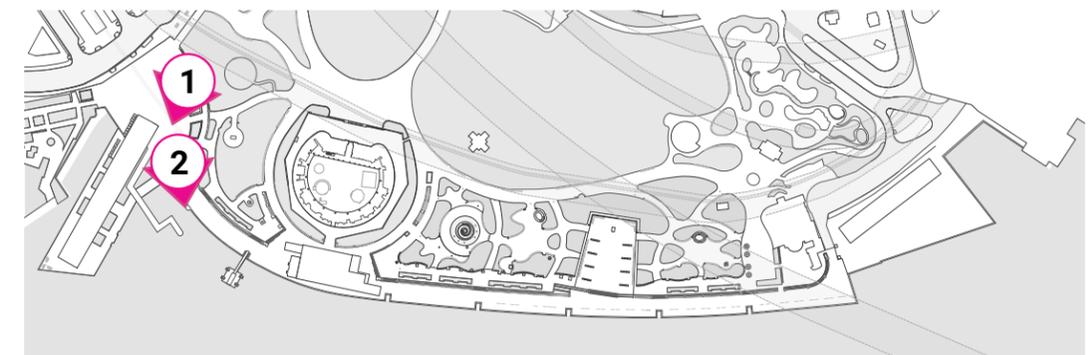
Echinacea purpurea 'Rubinstern'



Looking south toward Pier A



Looking southwest to the American Merchant Mariner's Memorial





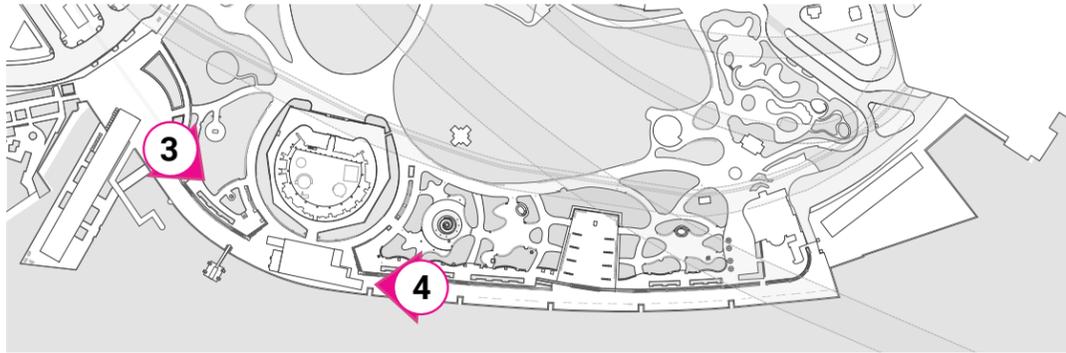
Looking at the wharf at east side of Castle Clinton

3



Looking west to Statue Cruises slip and National Park Service security tent

4





Looking east at boat queuing area



Looking north at the edge of Garden of Remembrance with backed benches





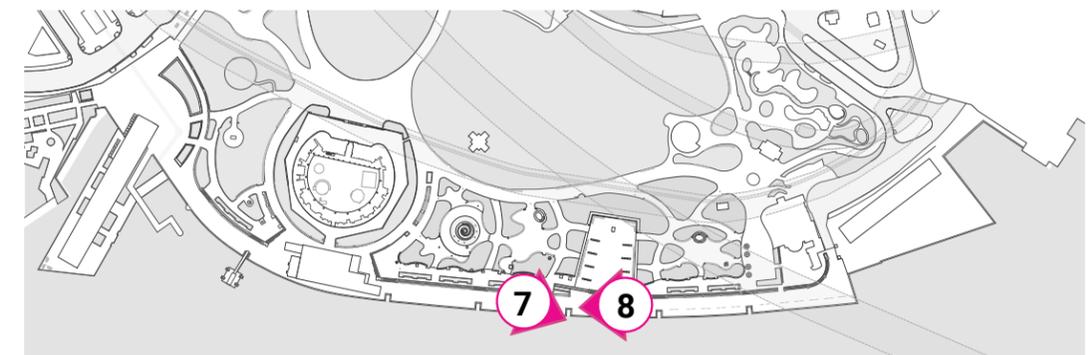
Looking east at the wharf with backless benches and slips

7



Looking west at the wharf with security tent and boats in the background

8





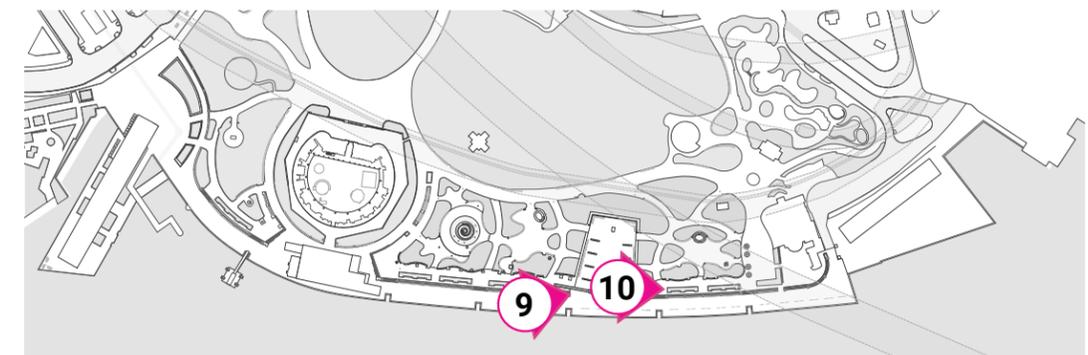
Looking northeast at the East Coast Memorial with linear bench and granite steps in front

9



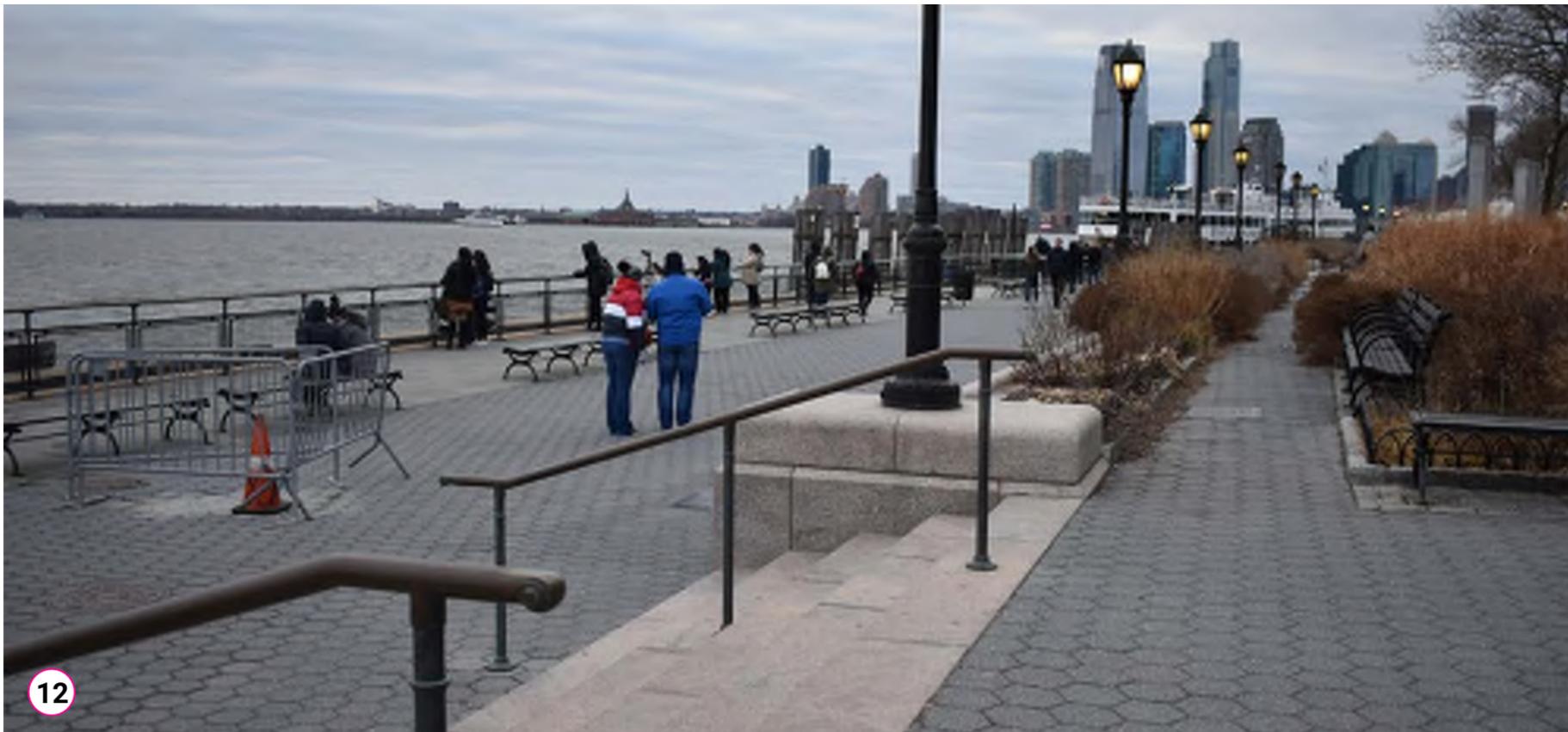
Looking east at the wharf from the front of the East Coast Memorial

10

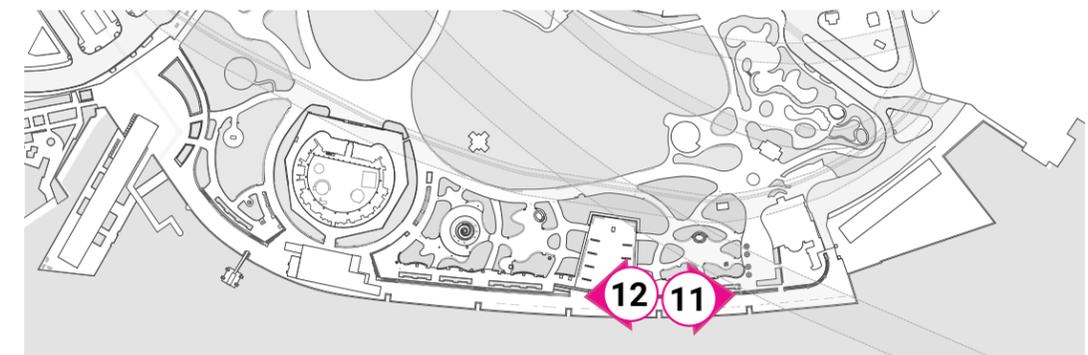


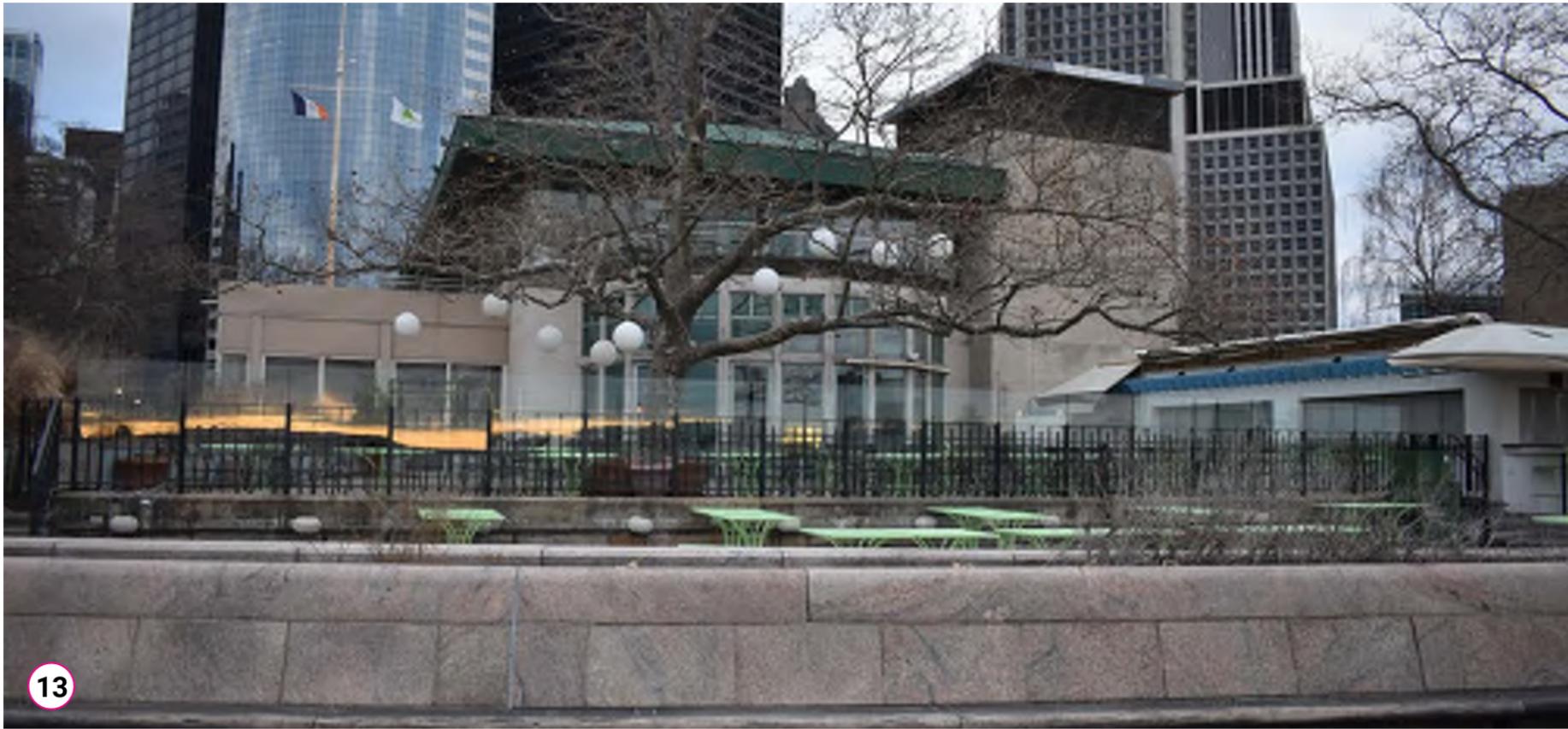


Looking east at existing ramp down to the wharf



Looking north/west at steps down to the wharf





13

Looking north at The View at the Battery



14

Looking at the eastern end of the wharf

