

BK Bridge - Montgomery Coastal Resilience

PDC Preliminary Presentation

September 18, 2020

AGENDA

- 1. PROJECT INTRODUCTION**
- 2. FLOOD PROTECTION ALIGNMENT**
- 3. RAISING THE PLATFORM**
- 4. PROJECT DESIGN**
- 5. MATERIALS AND FURNISHINGS**
- 6. INTERCEPTOR GATE BUILDING**

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LOWER MANHATTAN COASTAL RESILIENCY



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

Capital projects to protect 70% of the shoreline of Lower Manhattan, and Master Plan for remaining 30%

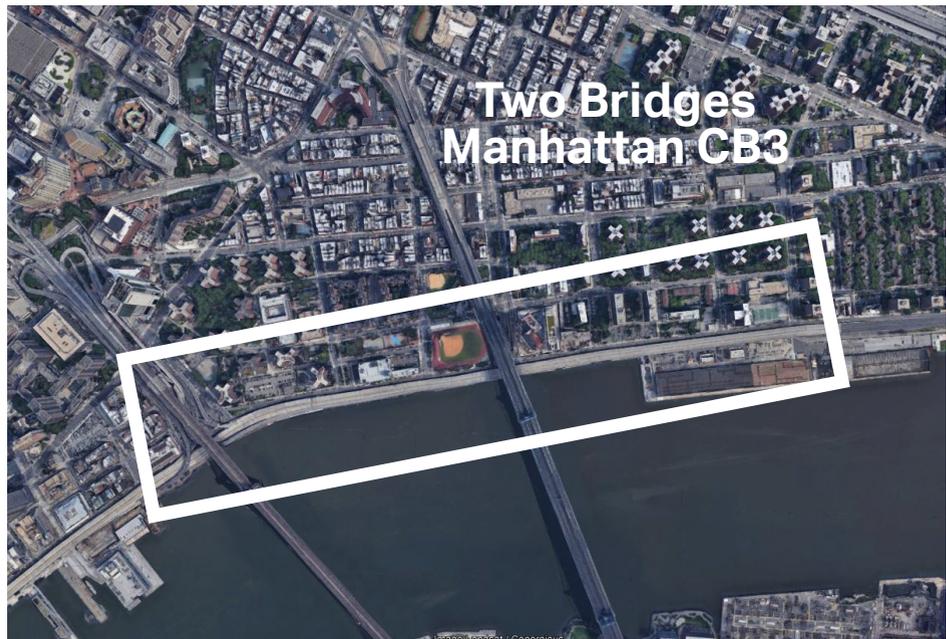
- INTERIM FLOOD PROTECTION MEASURES (IFPM)
- PROJECTS ADJACENT TO LMCR STRATEGY

PROJECT LOCATION



CITY

1 MI



NEIGHBORHOOD

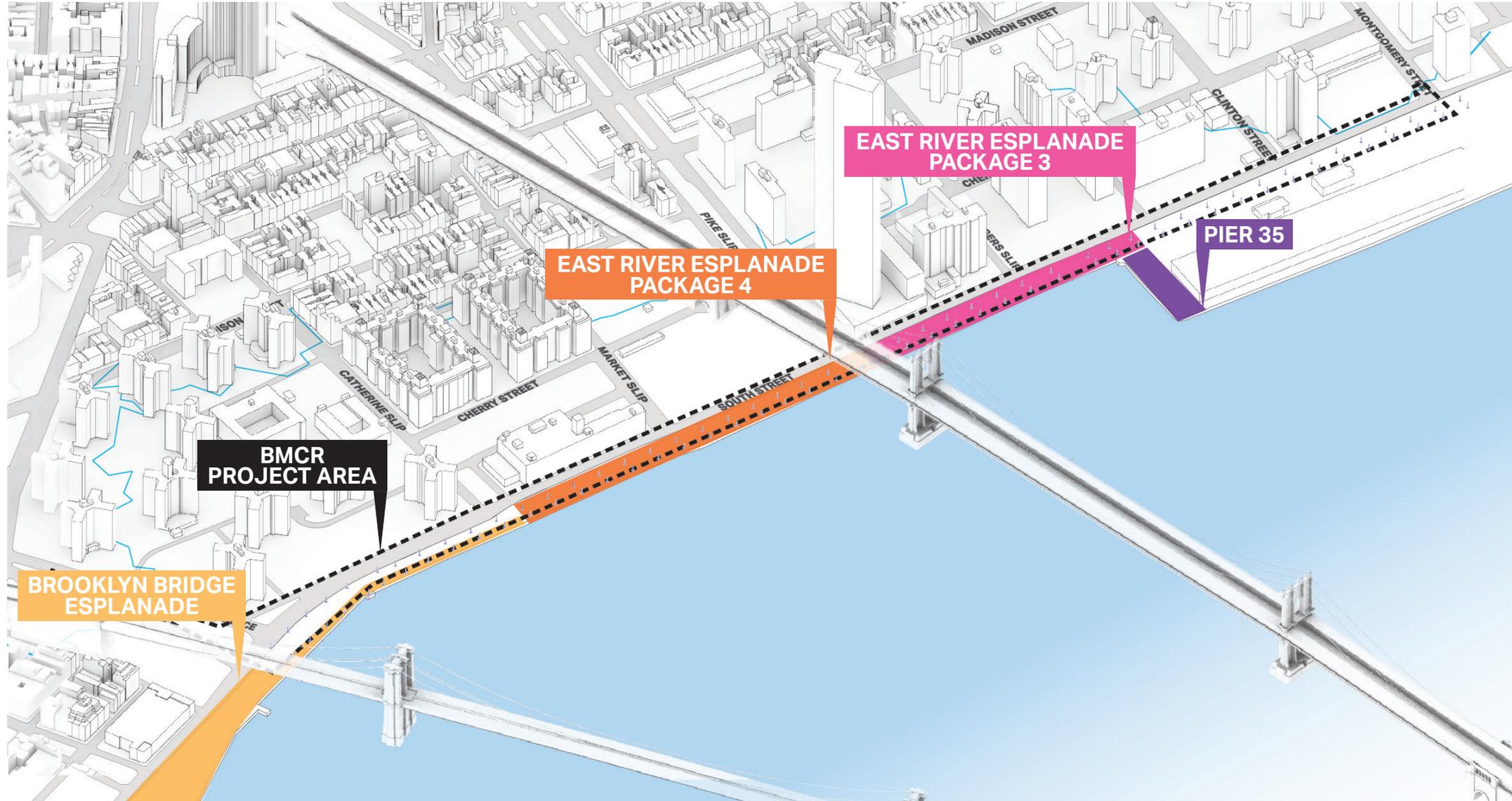
1000 FT



SITE

500 FT

PROJECT COORDINATION



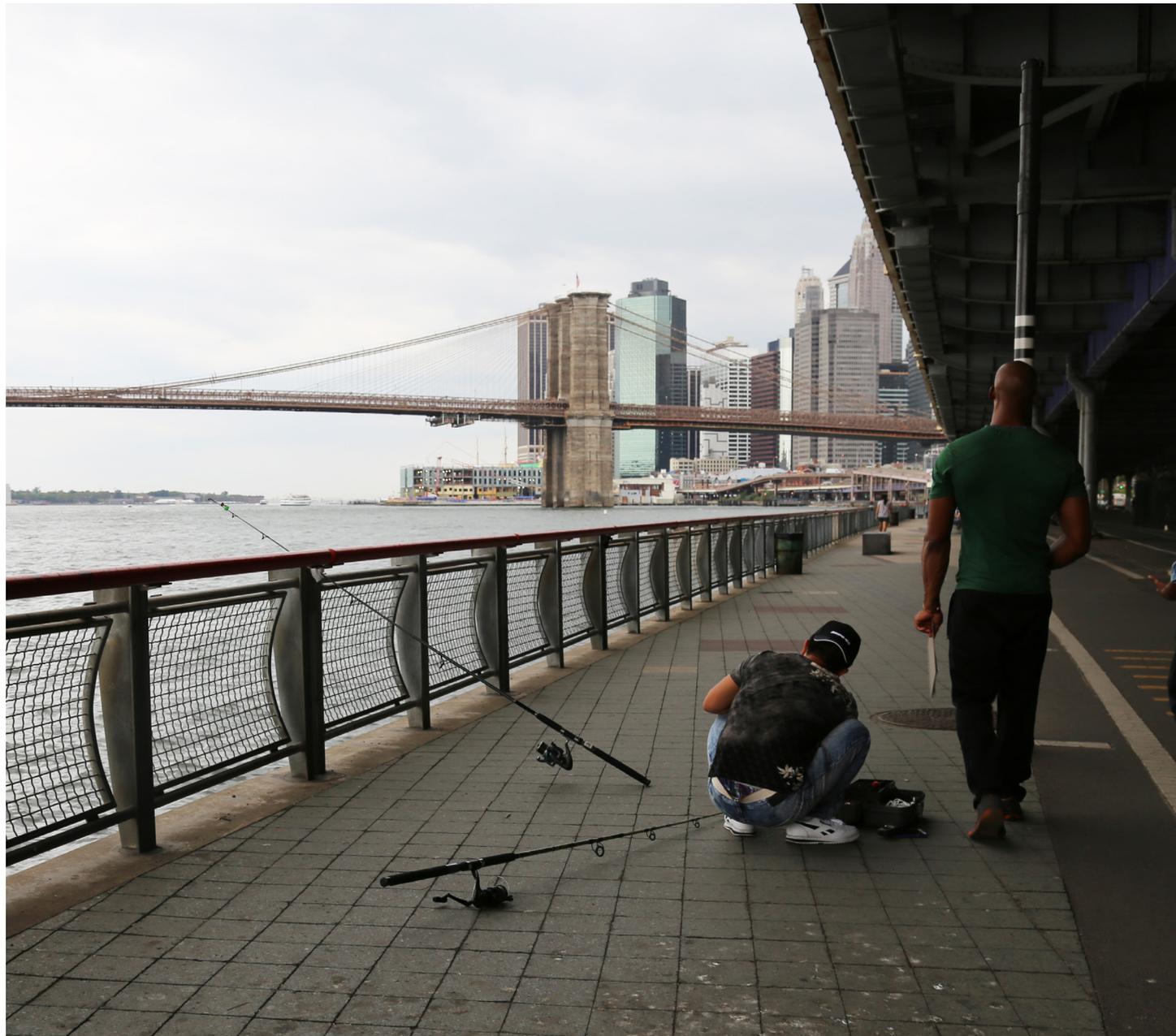
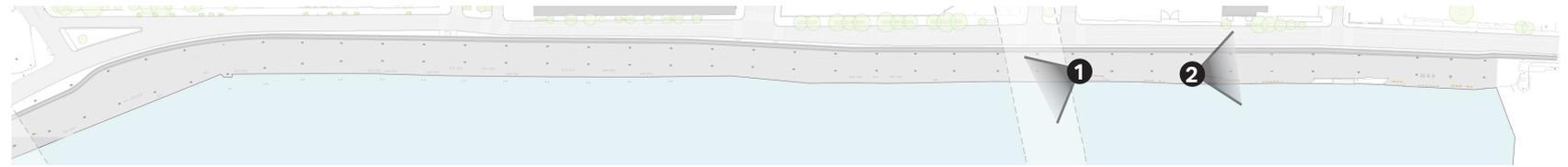
TIMELINES

- PIER 35**
2019 Completed
- EAST RIVER ESPLANADE - PACKAGE 3**
2014 Completed
- EAST RIVER ESPLANADE - PACKAGE 4**
Under Construction, Completion 2020
- BROOKLYN BRIDGE ESPLANADE (BBE)**
October 2019 - 100% Construction Documents
Currently - Paused in Construction Procurement
- BROOKLYN BRIDGE-MONTGOMERY COASTAL RESILIENCE**
November 2019 - Schematic Design Complete
May 2021 - 100% Construction Documents
June 2021 - Bidding
January 2022 - Construction Starts
July 2022 - Federal Spending Deadline

COVERED VS. UNCOVERED SPACE



EXISTING ESPLANADE

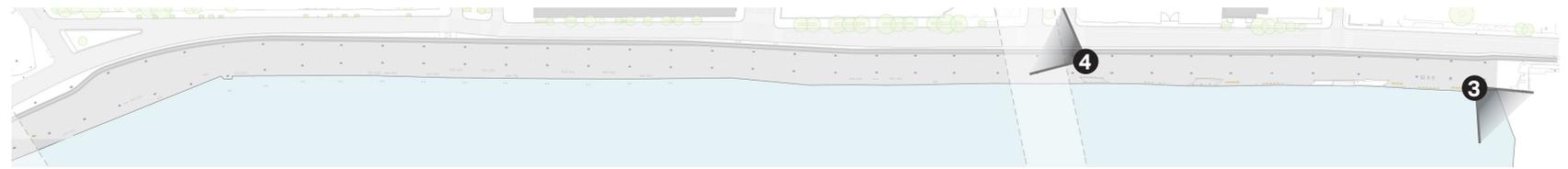


1 - FISHING AREA, LOOKING WEST



2 - SEATING / OBSERVATION AREA, LOOKING EAST

EXISTING ESPLANADE

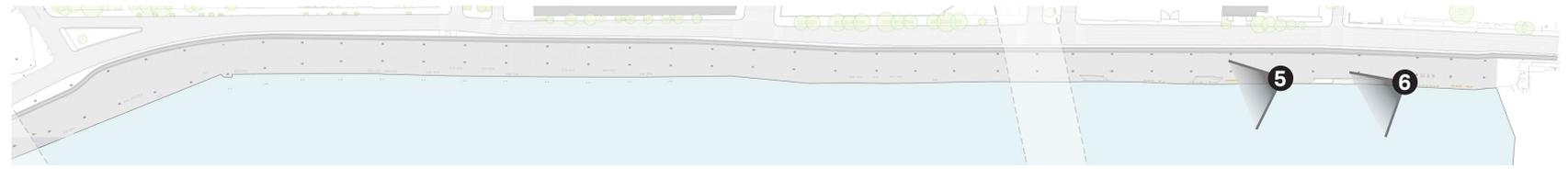


3 - CULTURAL PERFORMANCE IN OPEN SPACE



4 - BIKE PARKING UNDER FDR

EXISTING ESPLANADE

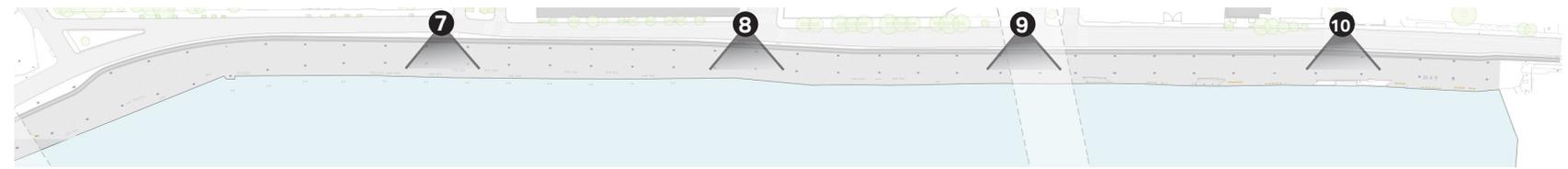


5 - BASKETBALL COURTS



6 - EAST RIVER ESPLANADE FITNESS PARK

VIEW CORRIDORS



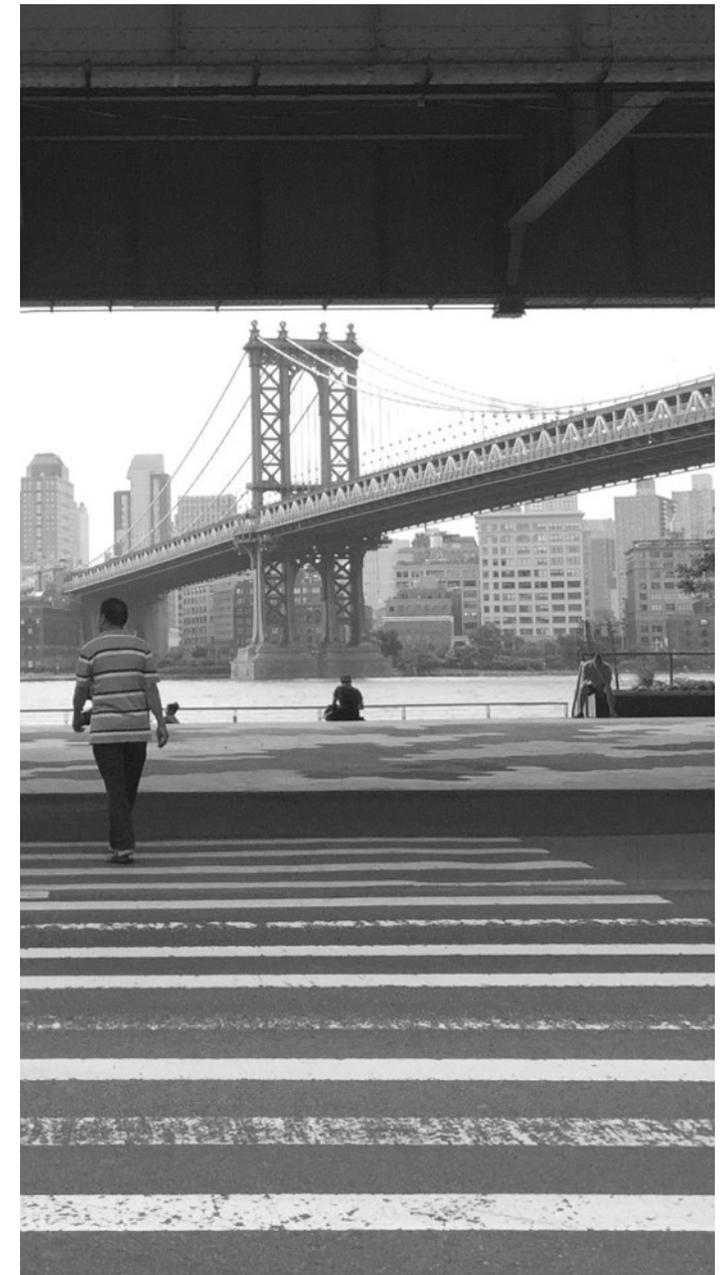
7 - CATHERINE SLIP



8 - MARKET SLIP



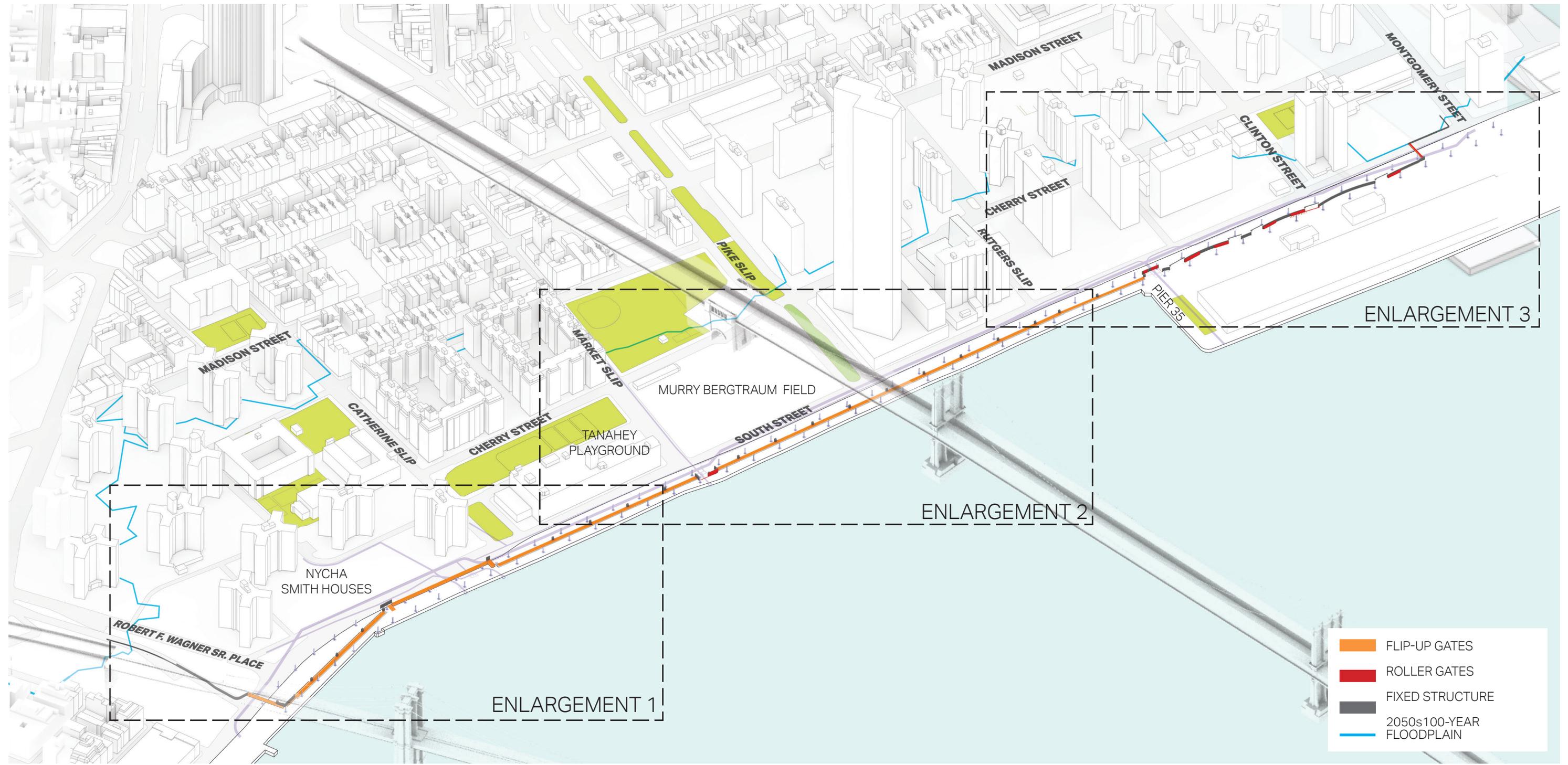
9 - PIKE SLIP



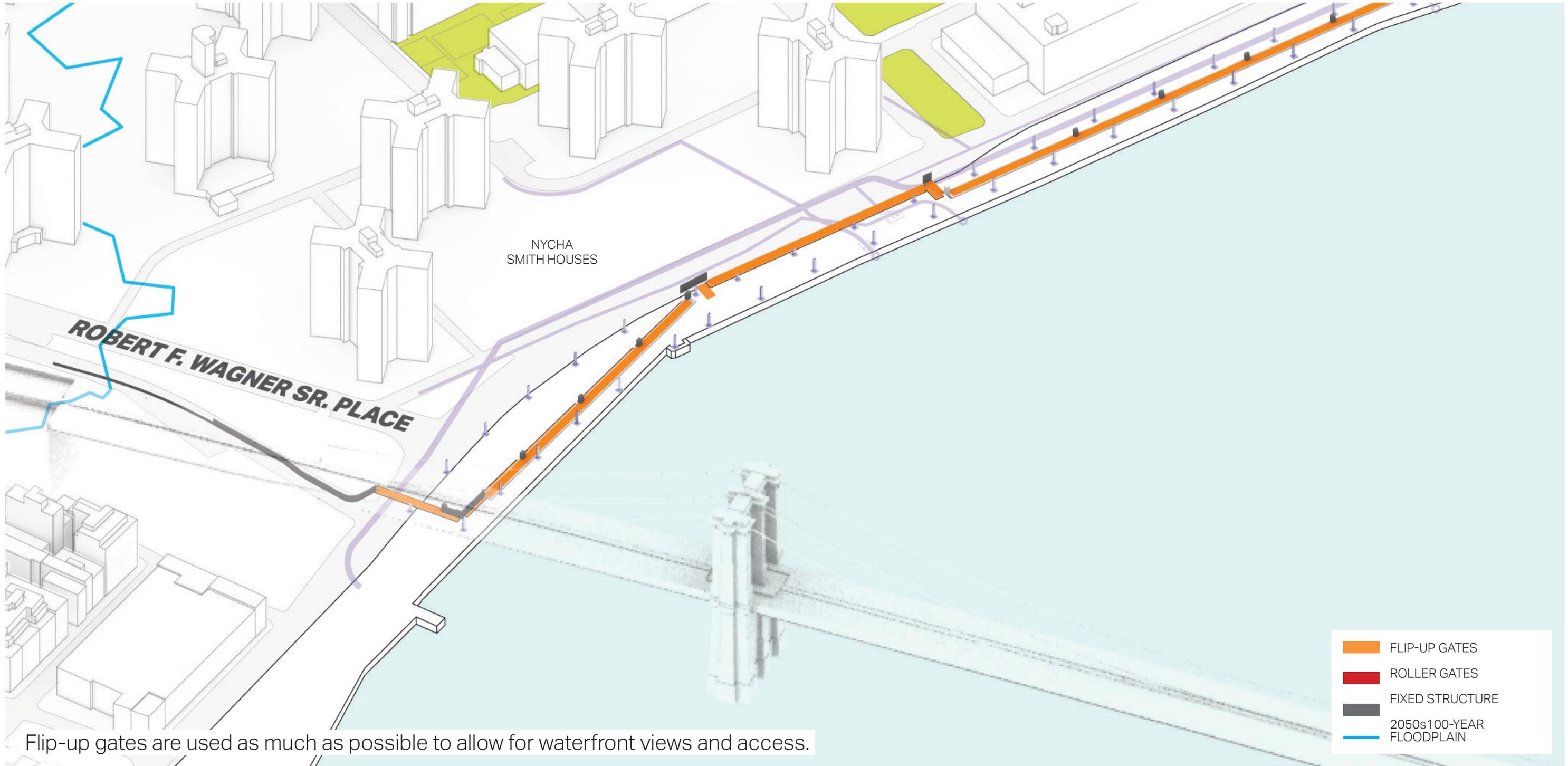
10 - RUTGERS SLIP

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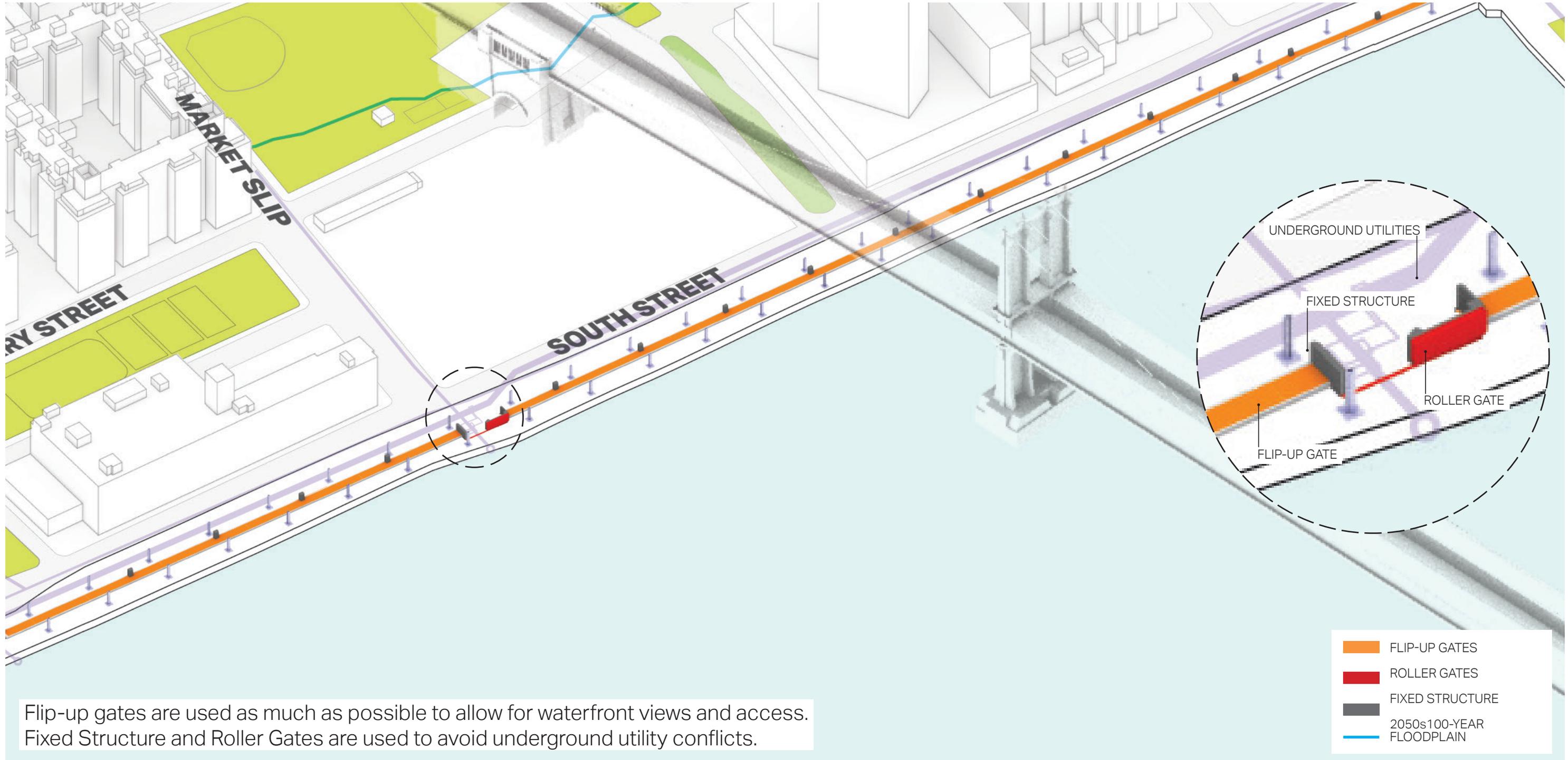
FLOOD PROTECTION ALIGNMENT | FULL SITE



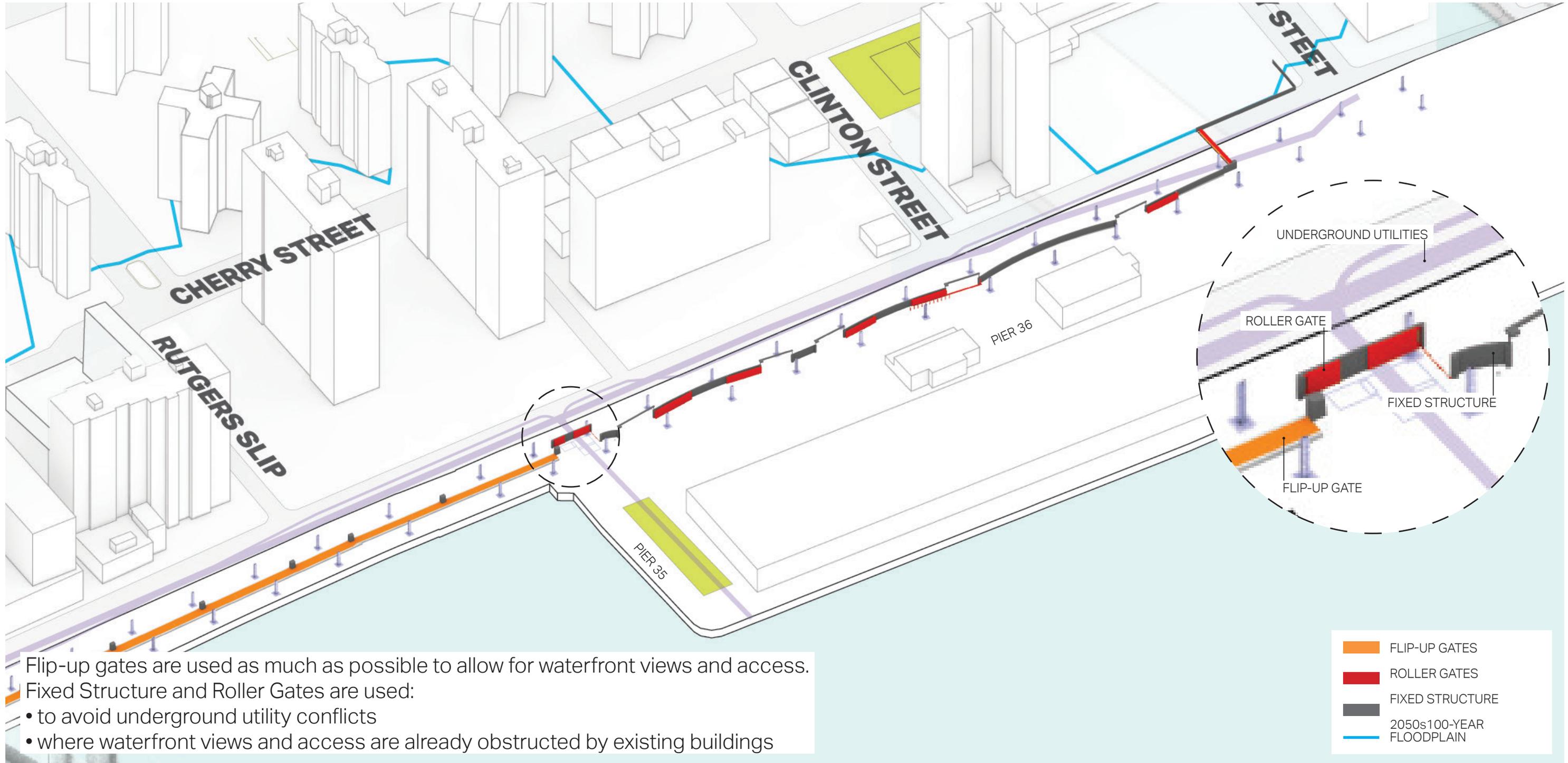
FLOOD PROTECTION ALIGNMENT | ENLARGEMENT 1



FLOOD PROTECTION ALIGNMENT | ENLARGEMENT 2



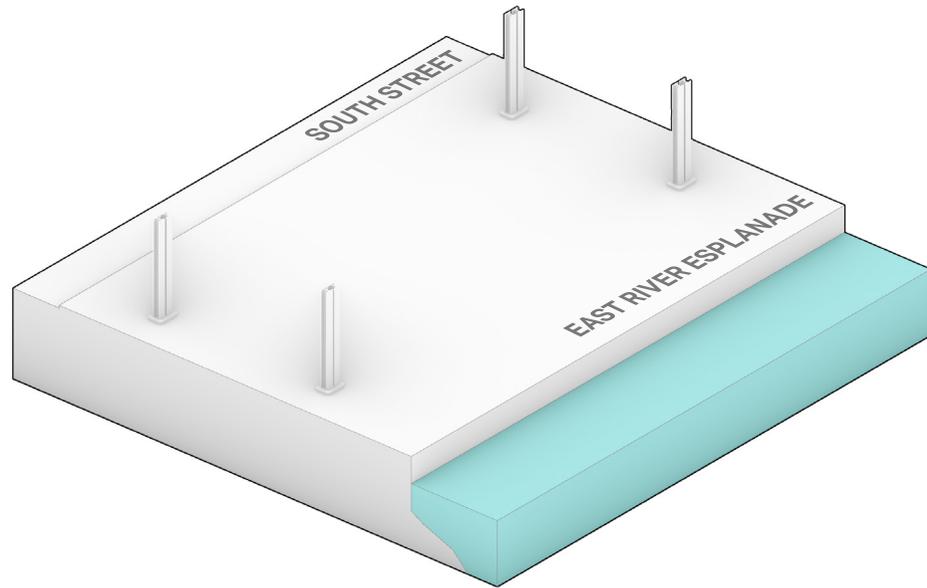
FLOOD PROTECTION ALIGNMENT | ENLARGEMENT 3



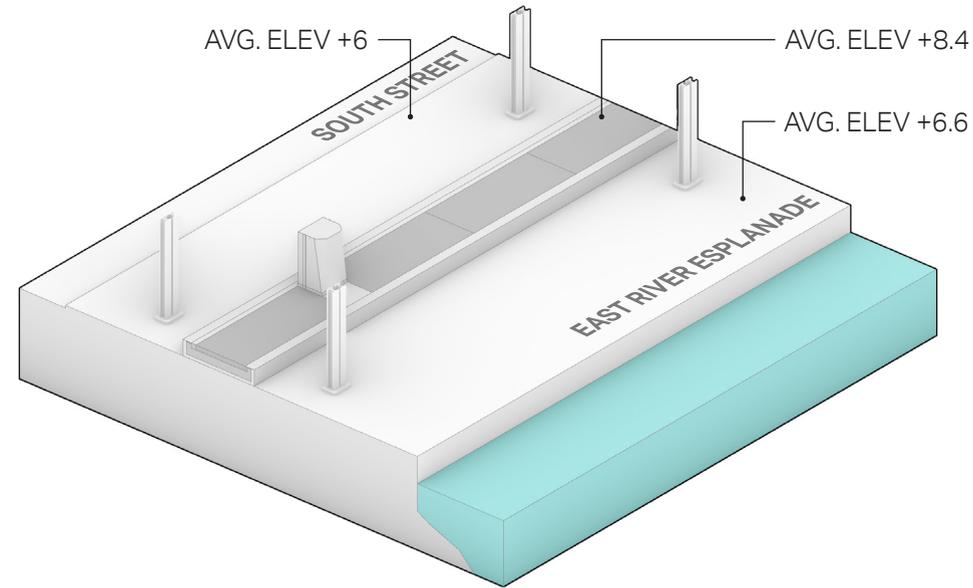
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MITIGATION OF FAIR WEATHER TIDAL FLOODING

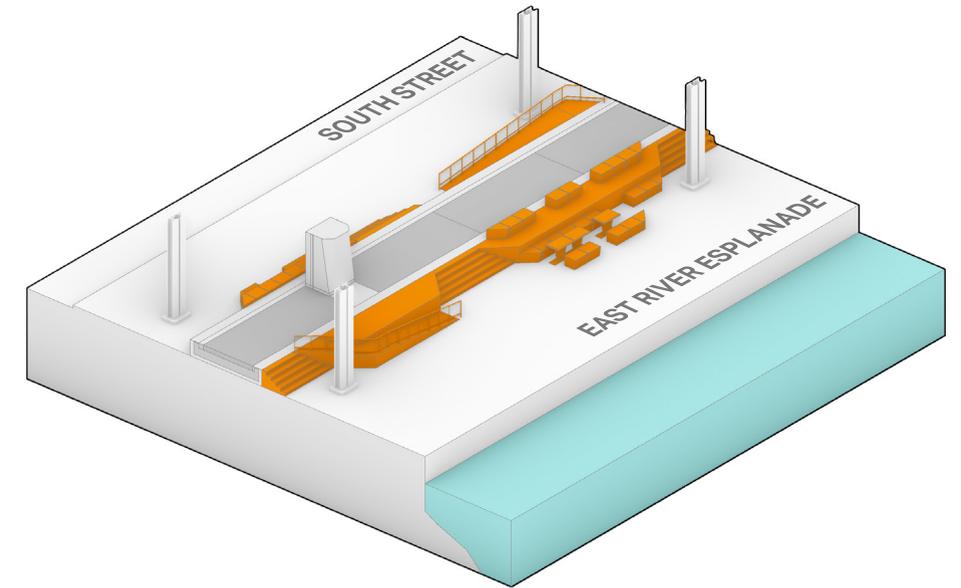
1. EXISTING CONDITION



2. RAISE THE PLATFORM TO AVERAGE ELEVATION OF +8.4 NAVD88

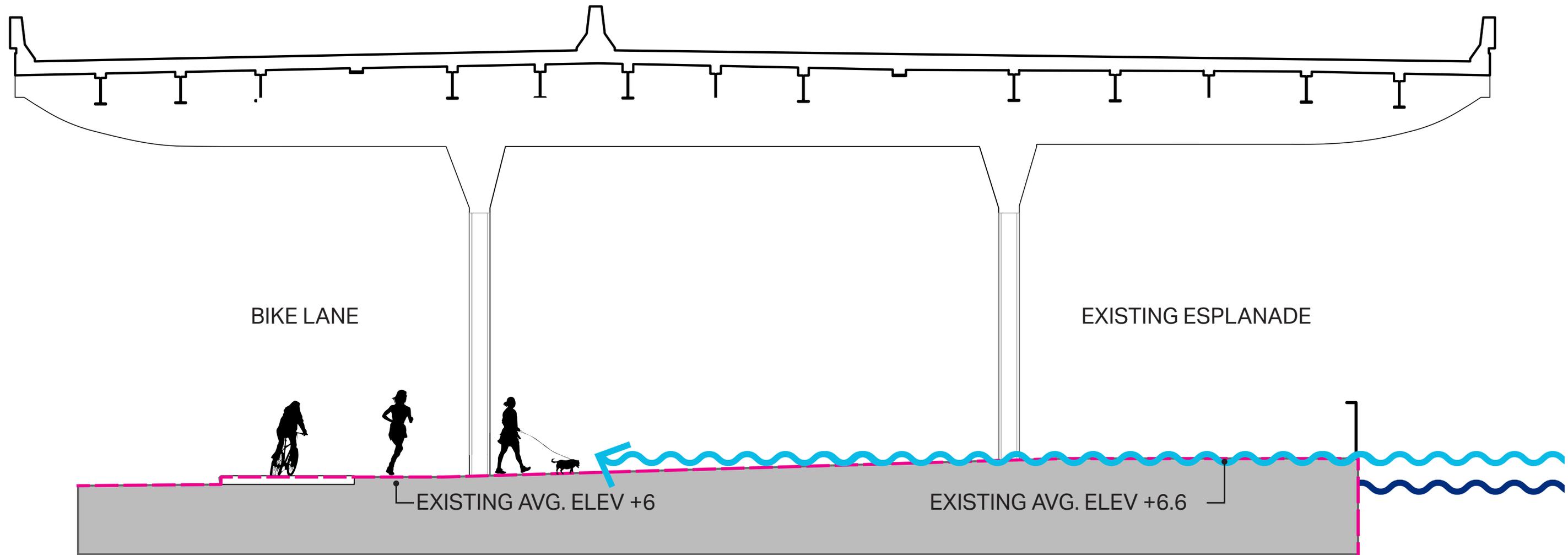


3. CONNECT PUBLIC REALM

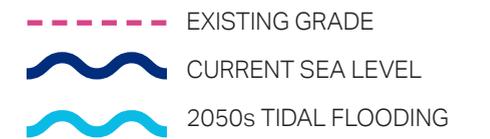


ACTIVATE RAISED PLATFORM AND CREATE UNIVERSALLY ACCESSIBLE SPACES

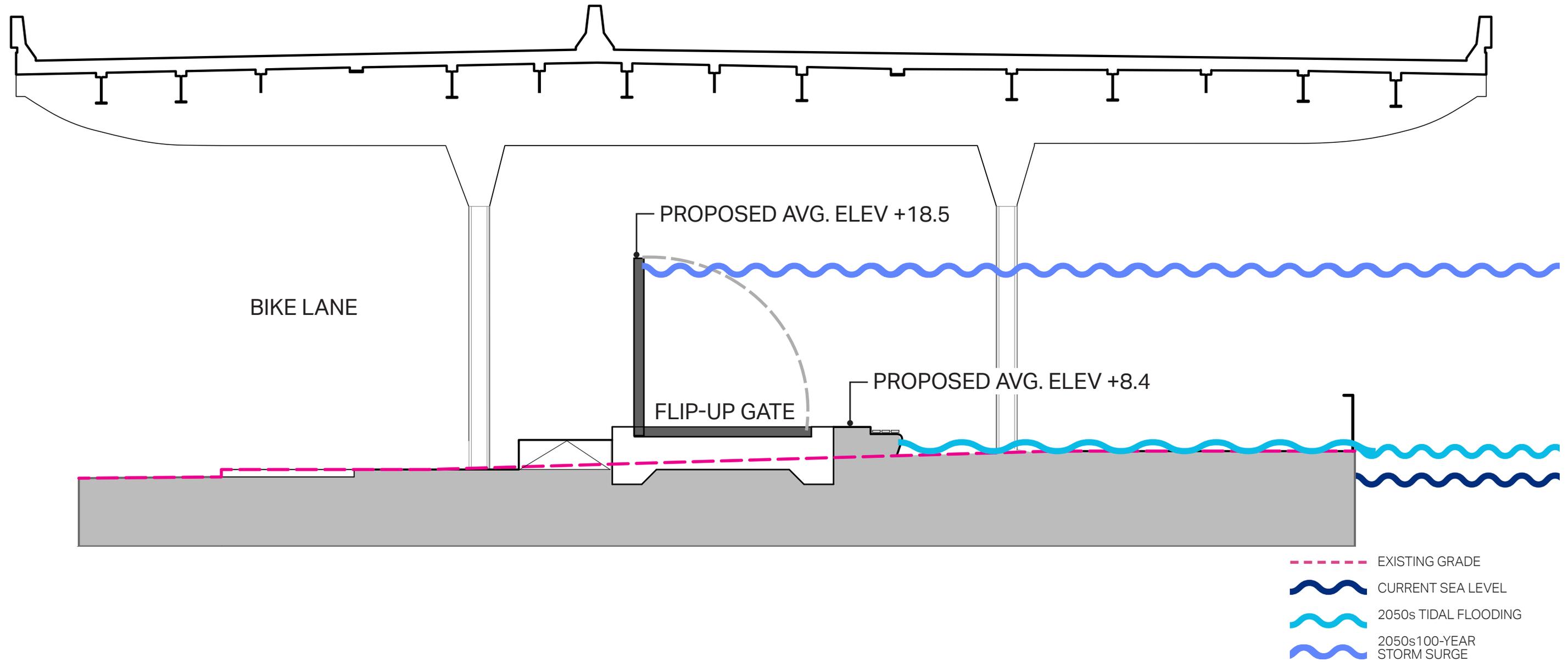
EXISTING TYPICAL SECTION



- Raised Platform to Address Fair Weather Tidal Flooding from SLR
- Approximately 10-15 low-level inundation events per year in 2050s



PROPOSED CONCEPTUAL TYPICAL SECTION



Raised Platform with Deployed Flood Infrastructure

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TYPICAL SITE CONSTRAINTS

24 Hydraulic Power Units, used to mechanically deploy flip-up gates, will be housed within concrete gate posts, spaced approximately 120' apart

4' clearance in front of HPU posts

Electrical box for HPU power

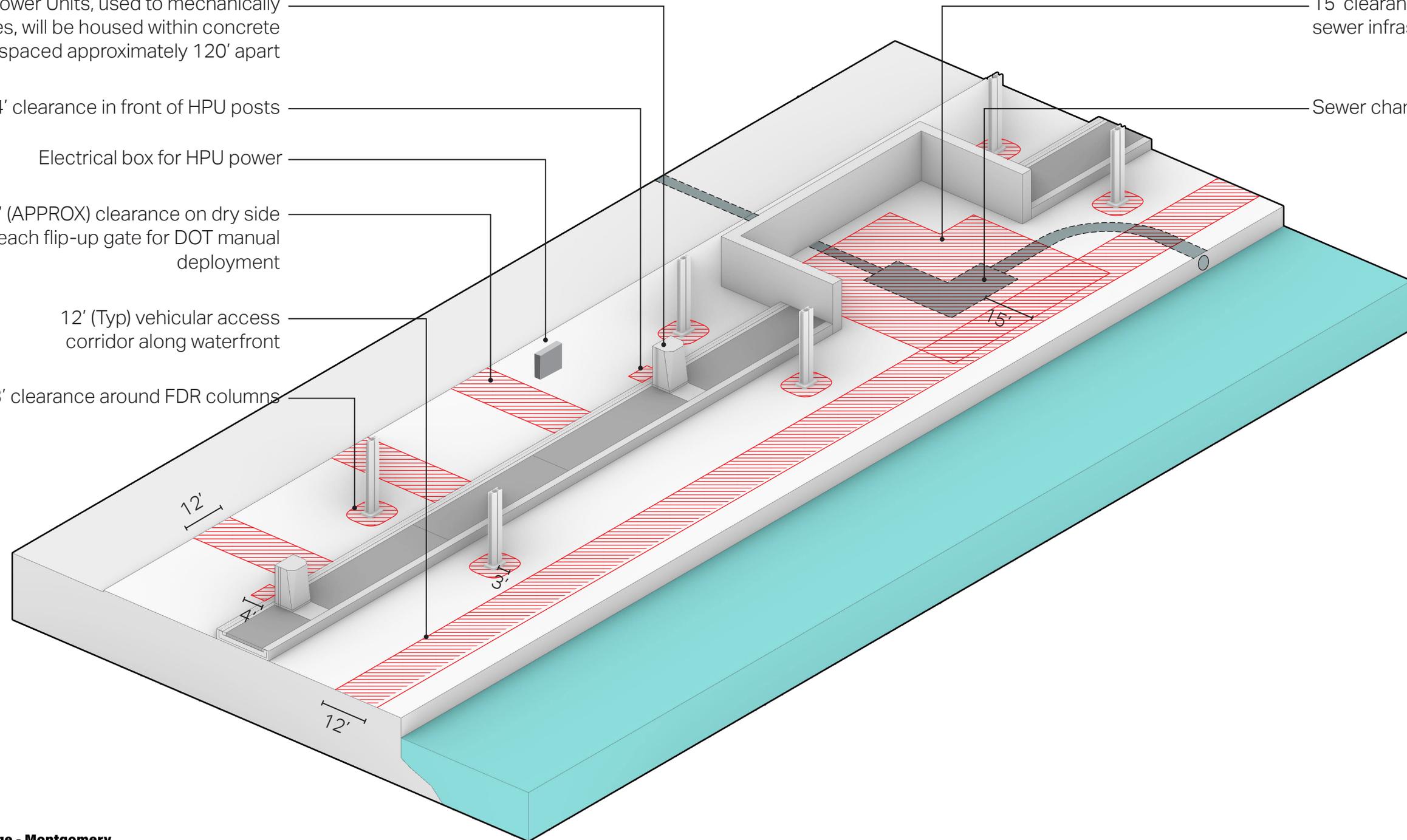
12' (APPROX) clearance on dry side of each flip-up gate for DOT manual deployment

12' (Typ) vehicular access corridor along waterfront

3' clearance around FDR columns

15' clearance around DEP sewer infrastructure

Sewer chamber



COMMUNITY ENGAGEMENT

CONCEPTUAL PHASE:

- 6/27/16: Kick-Off Public Workshop
- 7/20/16: CB3 Task Force Meeting
- 10/5/16: Kick-Off Public Workshop (Repeat)
- 11/29/16: CB3 Task Force Meeting
- 4/12/17: CB3 Task Force Meeting
- 5/31/17: Public Workshop
- 7/10/17: CB3 Task Force Meeting/Walking Tour
- 7/15/17: Tabling at City of Water Day on Pier 42
- 11/2/17: CB3 Task Force Meeting
- 12/19/17: Public Workshop
- 7/13/18: CB3 Task Force Meeting
- 7/18/18: Public Workshop

DESIGN PHASE:

- April 2019: Individual Briefings about LMCR Announcement, including CB3, Smith Houses, Knickerbocker, and Two Bridges Neighborhood Council
- 5/16/19: Presented to CB3 Waterfront, Parks, and Resiliency Committee
- 7/13/19: Tabling at City of Water Day on Pier 35
- 9/26/19: In-Person Quarterly Lmcr Update to Electeds and Community Boards
- 10/2/19: Public Meeting at P.S. 2 in Two Bridges
- 10/10/19: Presented to CB3 Waterfront, Parks, and Resiliency Committee
- 10/18/19: 'Office Hours' Tabling Session at Pier 35, Plus Four Other Tabling Sessions in Other Locations of Lower Manhattan
- 11/12/19: Presented at Lands End II
- 12/16/19: Presented at Knickerbocker Village
- 12/18/19: Presented at Two Bridges Tower
- 1/9/20: Phone Call Quarterly LMCR Update to Electeds and Community Boards
- 2/13/20: Presentation to CB3 Waterfront, Parks, and Resiliency Committee
- 2/20/20: Presentation at Smith Houses
- 8/13/20: Presentation to CB3 Waterfront, Parks, and Resiliency Committee
- 9/10/20: Presentation to CB3 Waterfront, Parks, and Resiliency Committee

COMMUNITY FEEDBACK

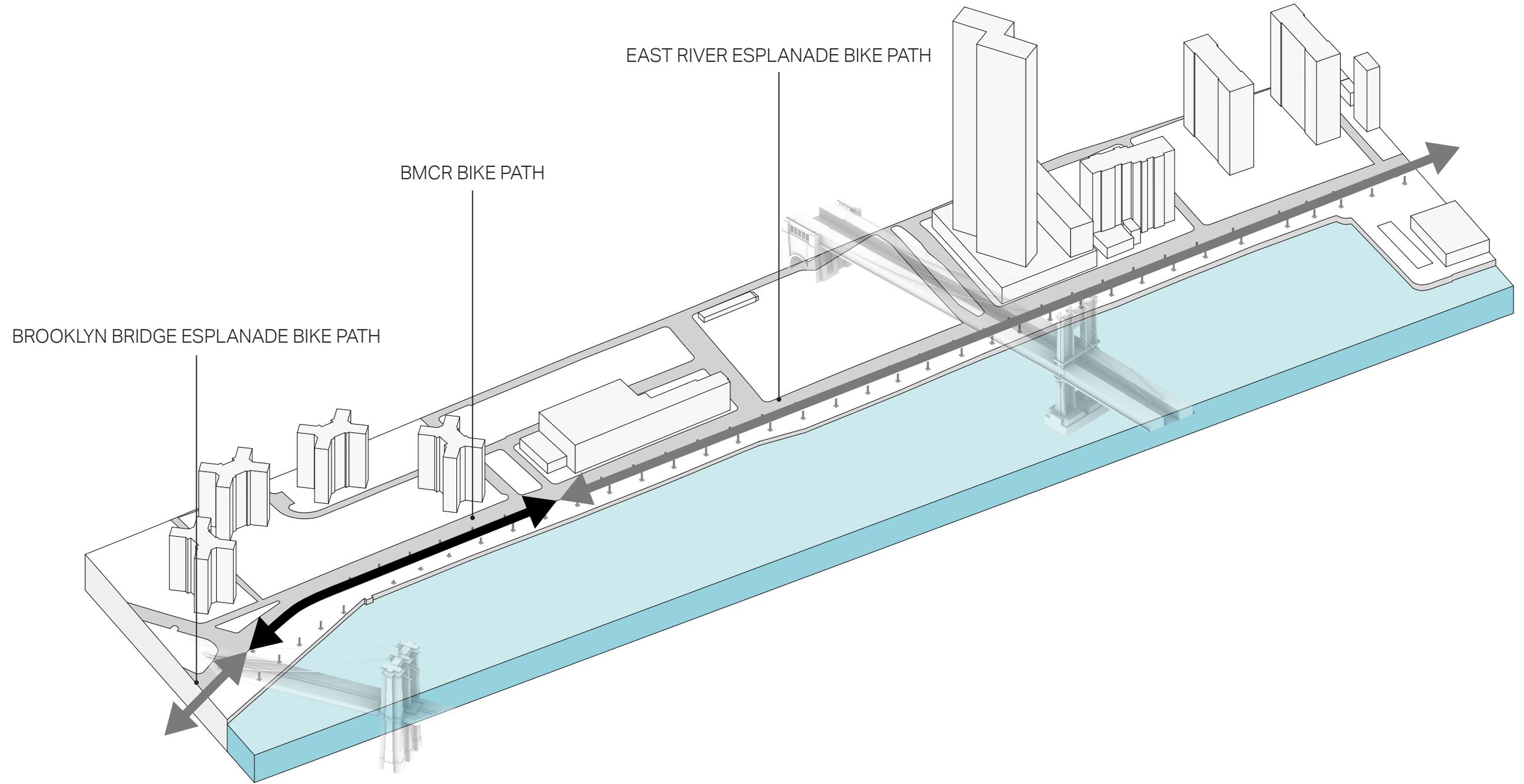


WHAT WE HEARD

- DESIRE FOR OPEN, FLEXIBLE SPACE
- STRONG CONCERNS ABOUT RELOCATING THE EXISTING BASKETBALL HALF COURTS
- EXISTING FITNESS AREA IS VERY POPULAR AND SHOULD BE REPLACED, WITH MORE UNIVERSAL EQUIPMENT
- EXISTING BOCCE COURT IS UNDER-USED AND SHOULD BE REMOVED
- STRONG DESIRE FOR PLAYGROUNDS AT THE WATERFRONT
- GLIDERS AT PIER 35 ARE VERY POPULAR
- DESIRE FOR BATHROOM FACILITIES
- DESIRE FOR IMPROVED SIGNAGE & WAYFINDING, LIGHTING, SKATE DETERRENTS



SITE BIKE CIRCULATION



DESIGN ZONES



**SOCIAL
POCKETS**



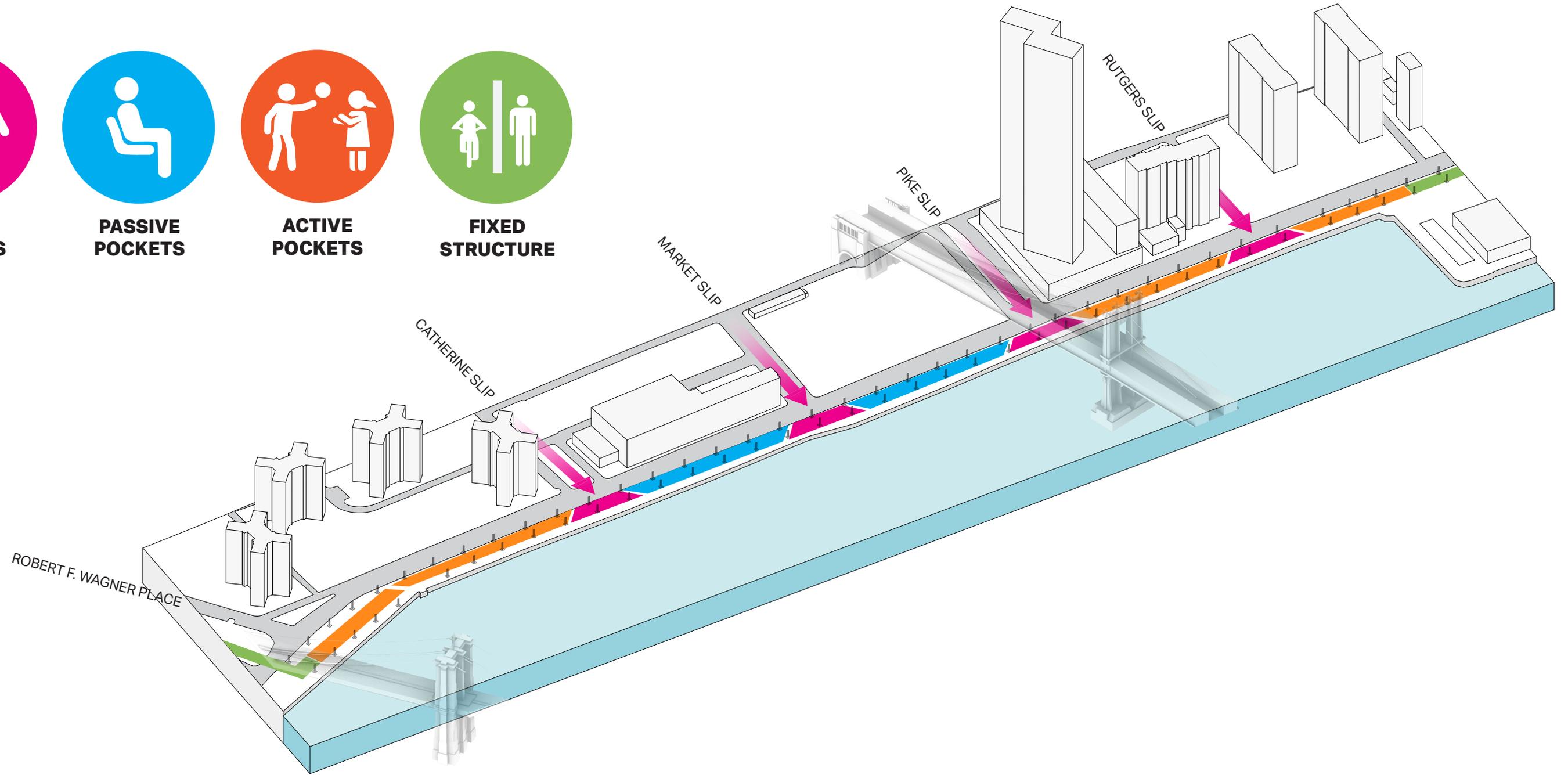
**PASSIVE
POCKETS**



**ACTIVE
POCKETS**



**FIXED
STRUCTURE**



SOCIAL POCKETS



**SOCIAL
POCKETS**



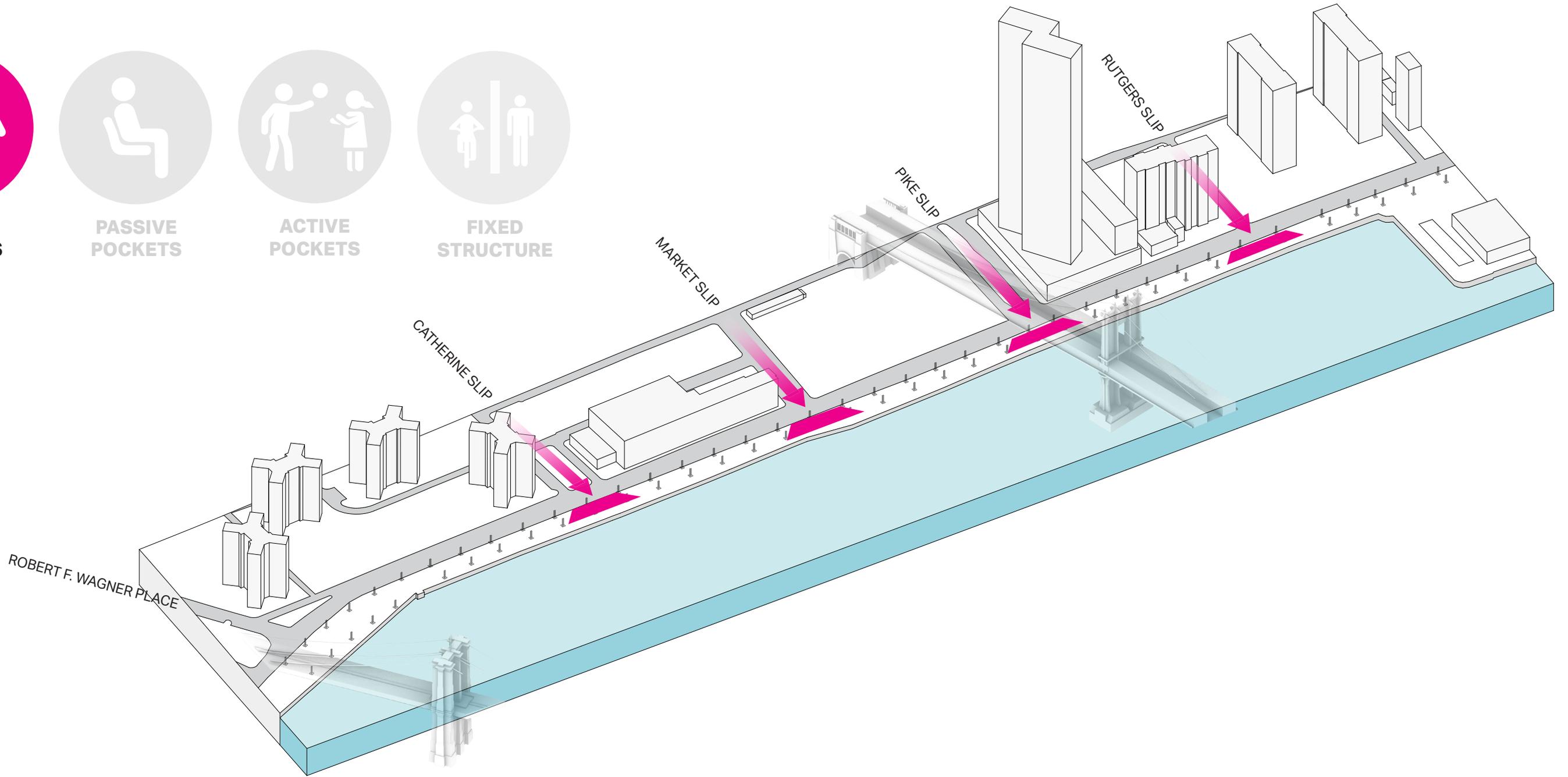
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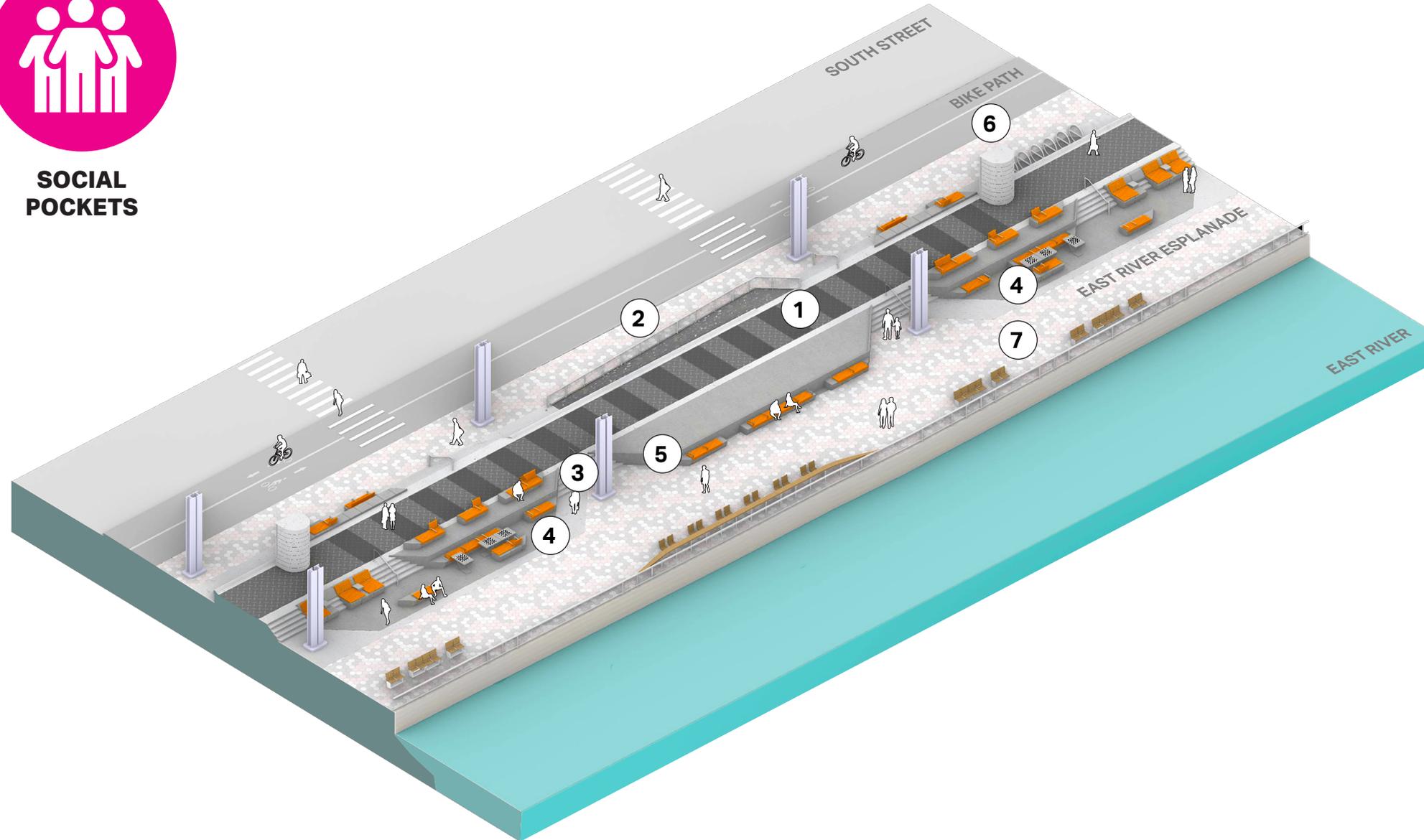
**FIXED
STRUCTURE**



SOCIAL POCKETS | TYPICAL PROGRAM & MATERIAL



**SOCIAL
POCKETS**



- 1 FLIP UP GATES**
BLACK DIAMOND PLATE WITH ANTI-SLIP FINISH


- 2 RAMPS**
DARK CONCRETE WITH SILICA CARBIDE


- 3 STEPS & PAVING**
STANDARD GREY CONCRETE


- 4 GATHERING AREAS**
GREY CONCRETE, ORANGE RECYCLED PLASTIC LUMBER


- 5 FLEXIBLE USE PLATFORM**
GREY CONCRETE


- 6 HYDRAULIC POWER UNITS**
STANDARD GREY CONCRETE

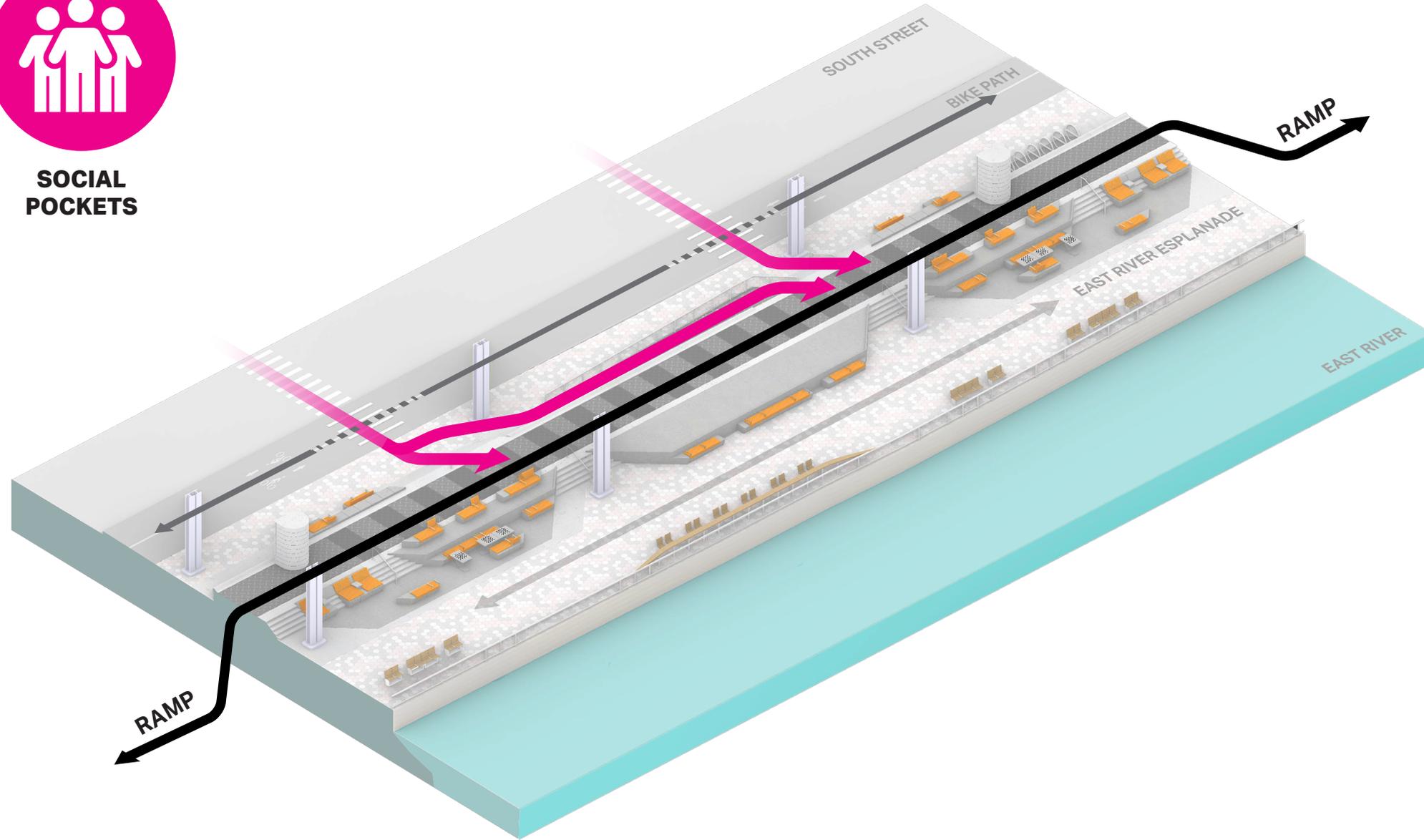

- 7 ESPLANADE**
HEX PAVERS USING EXISTING PATTERN



SOCIAL POCKETS | TYPICAL CIRCULATION



**SOCIAL
POCKETS**



ENTRY FROM CROSS STREET



PLATFORM WALK



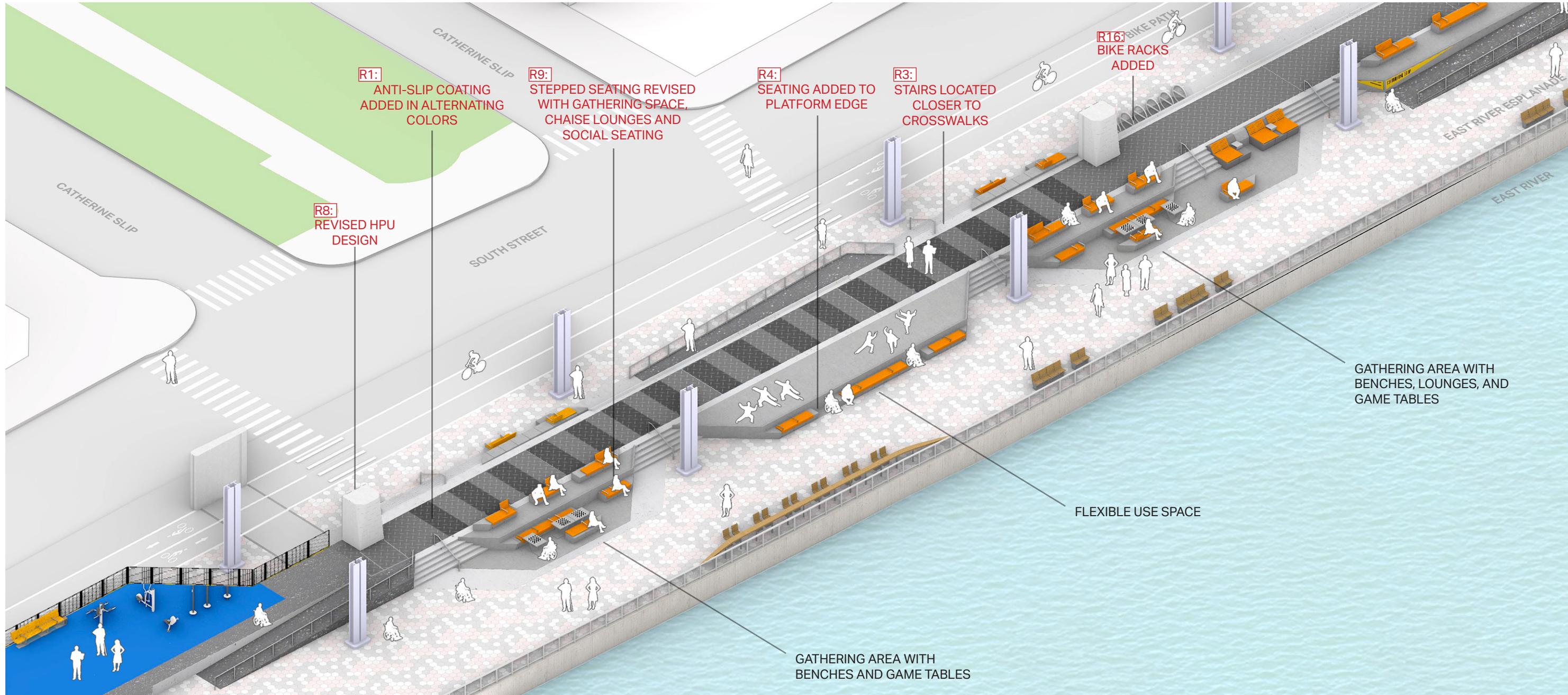
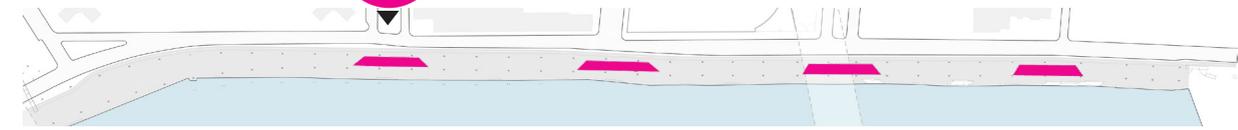
EAST RIVER ESPLANADE



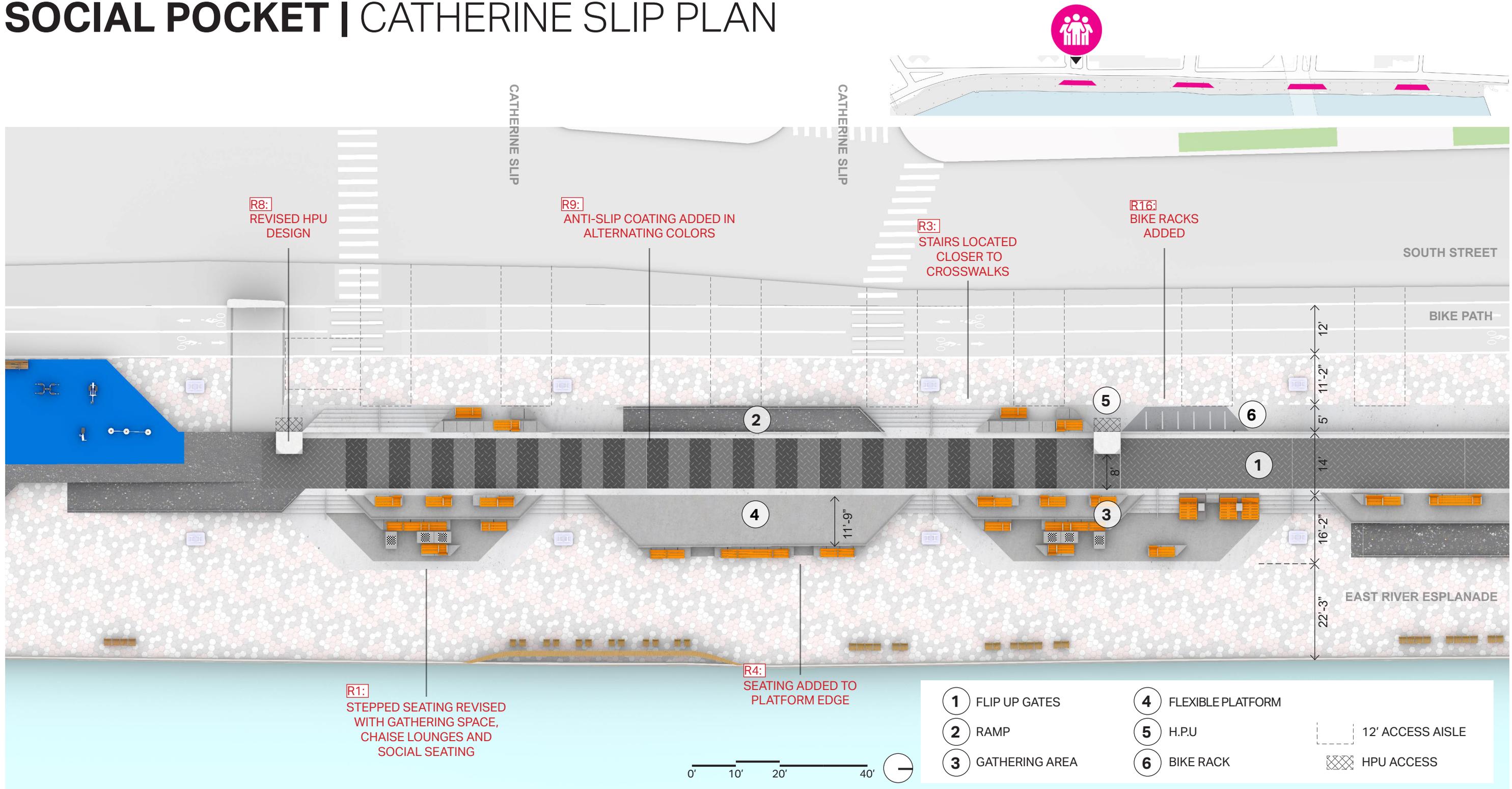
BIKE PATH



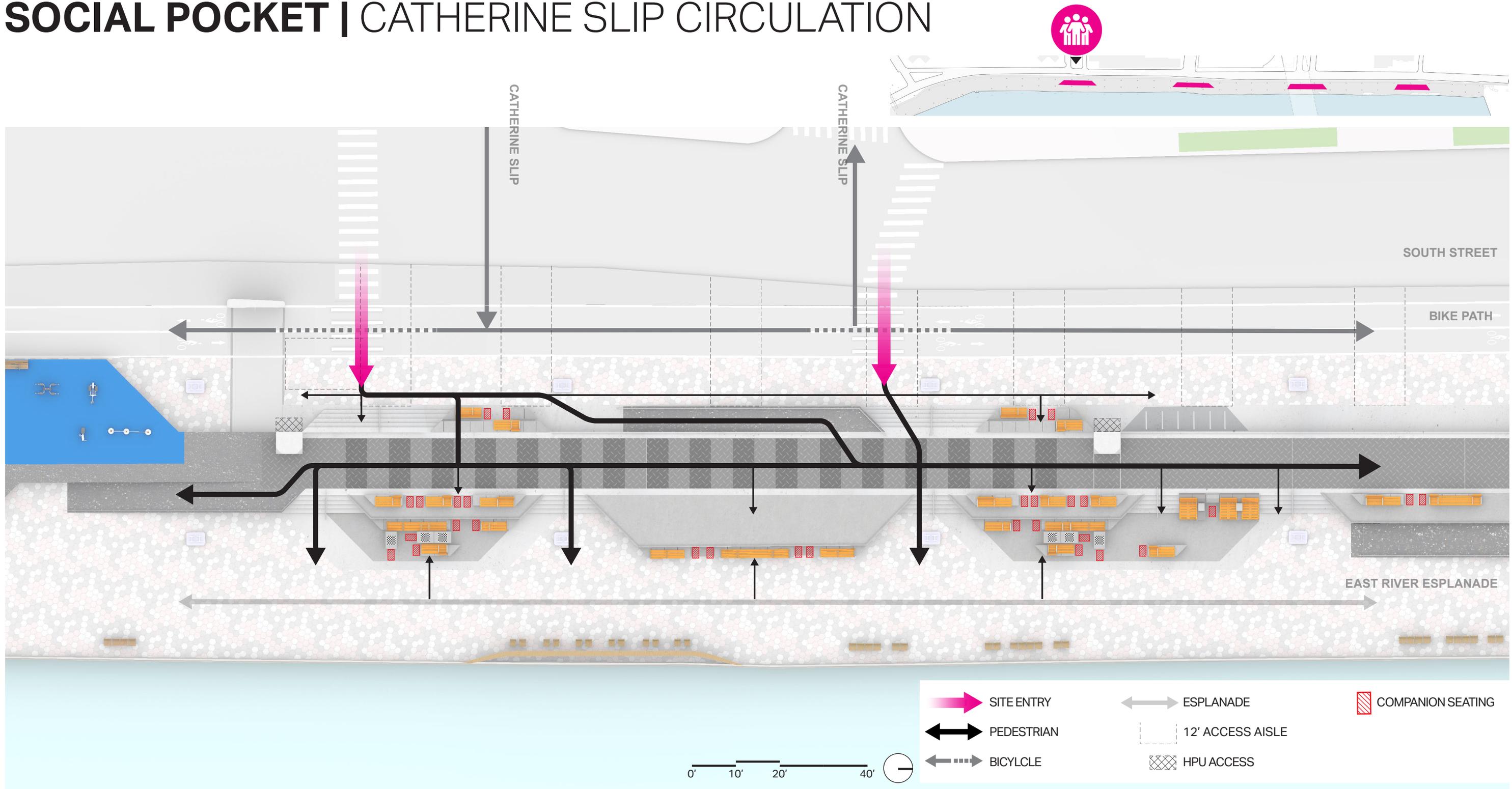
SOCIAL POCKET | CATHERINE SLIP



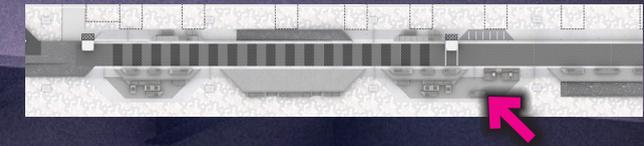
SOCIAL POCKET | CATHERINE SLIP PLAN



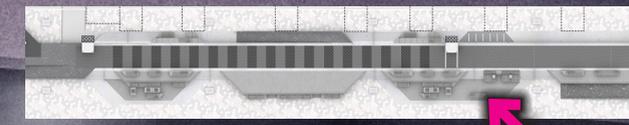
SOCIAL POCKET | CATHERINE SLIP CIRCULATION



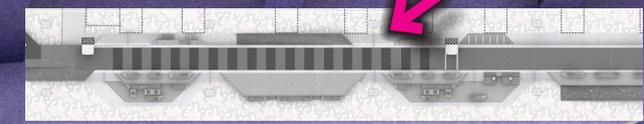
SOCIAL POCKET | CATHERINE SLIP ESPLANADE



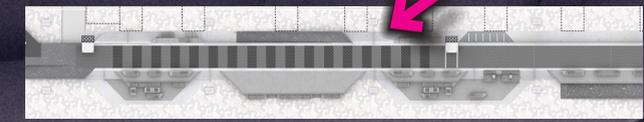
SOCIAL POCKET | CATHERINE SLIP ESPLANADE



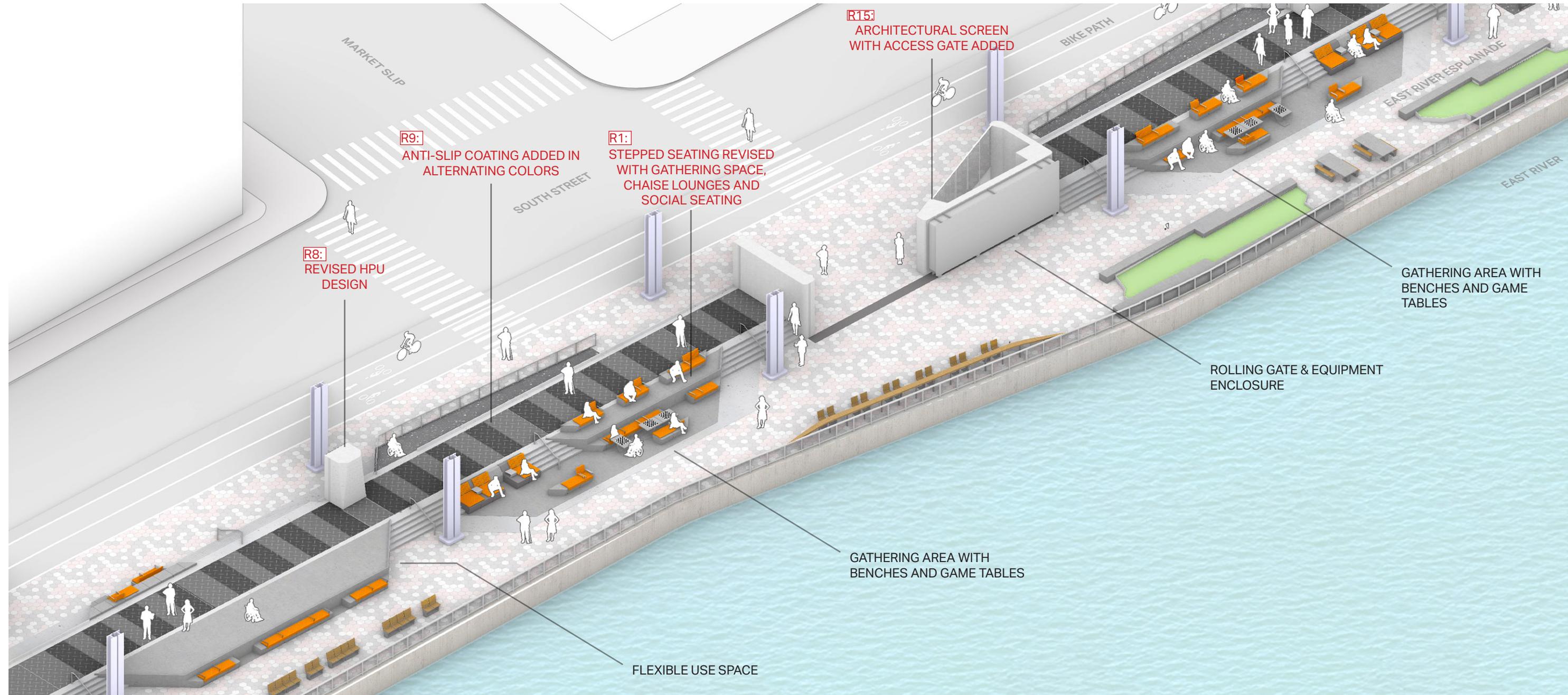
SOCIAL POCKET | CATHERINE SLIP ENTRANCE



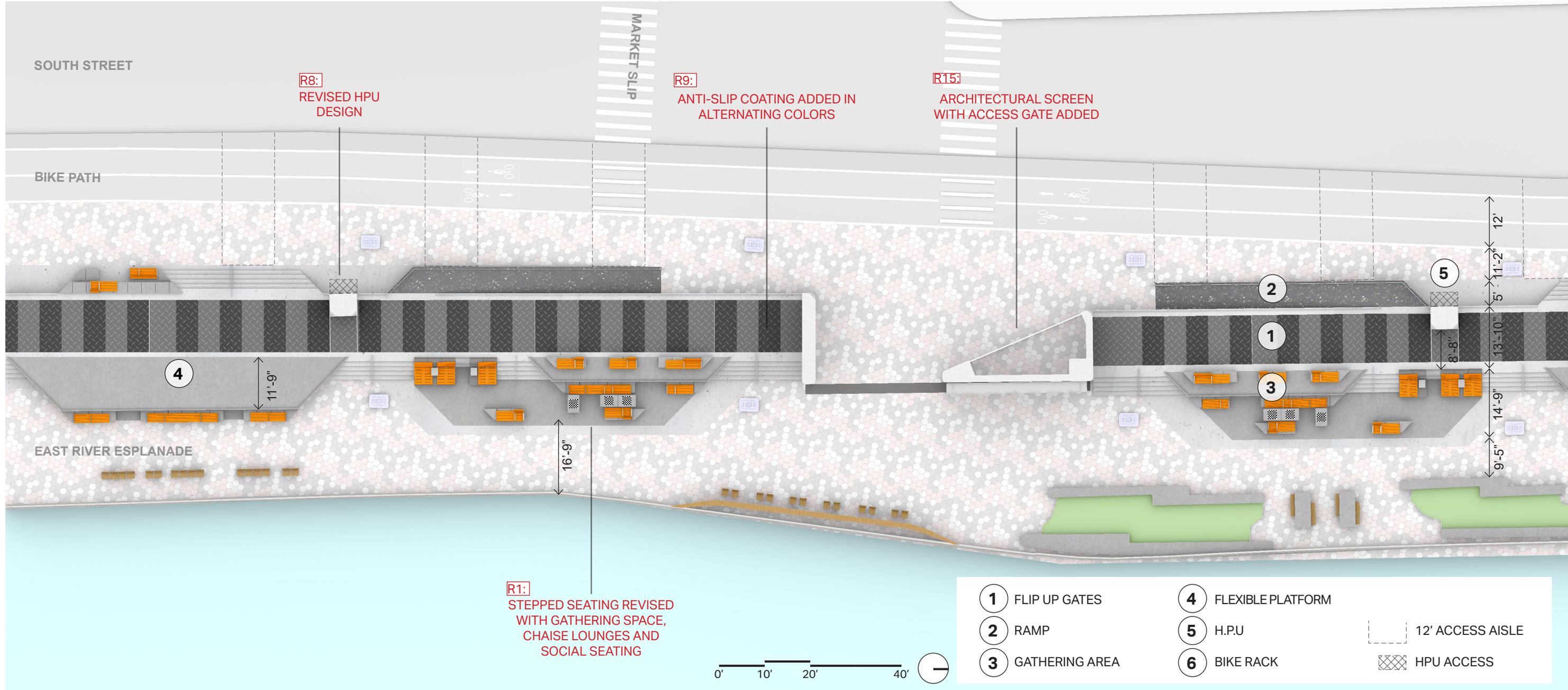
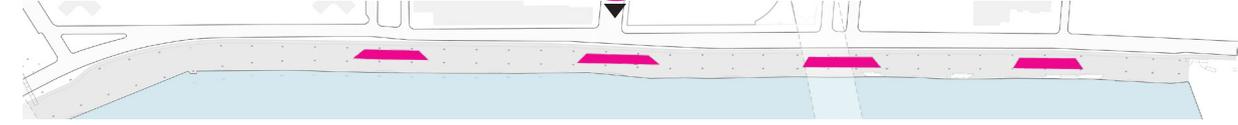
SOCIAL POCKET | CATHERINE SLIP STORM EVENT



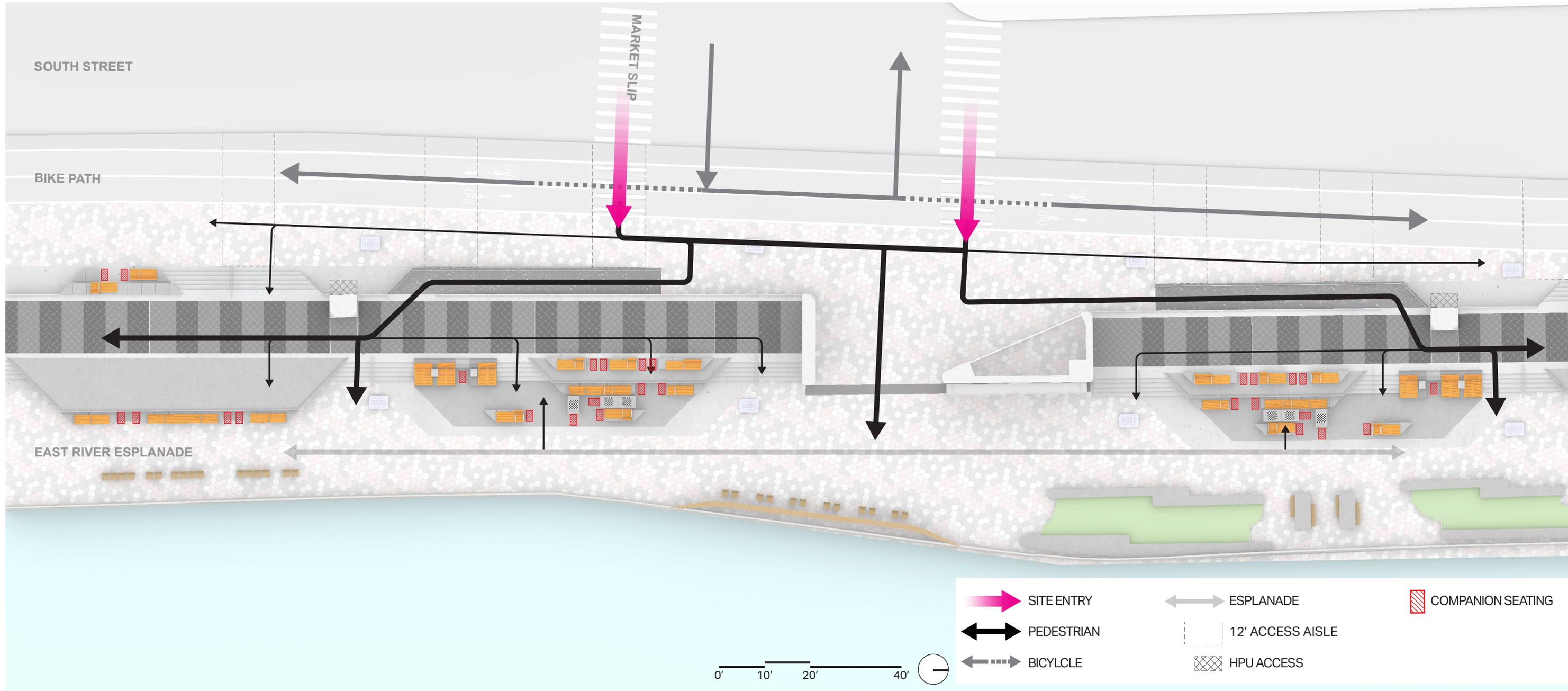
SOCIAL POCKET | MARKET SLIP



SOCIAL POCKET | MARKET SLIP PLAN

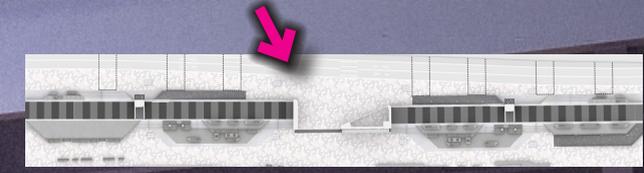


SOCIAL POCKET | MARKET SLIP CIRCULATION

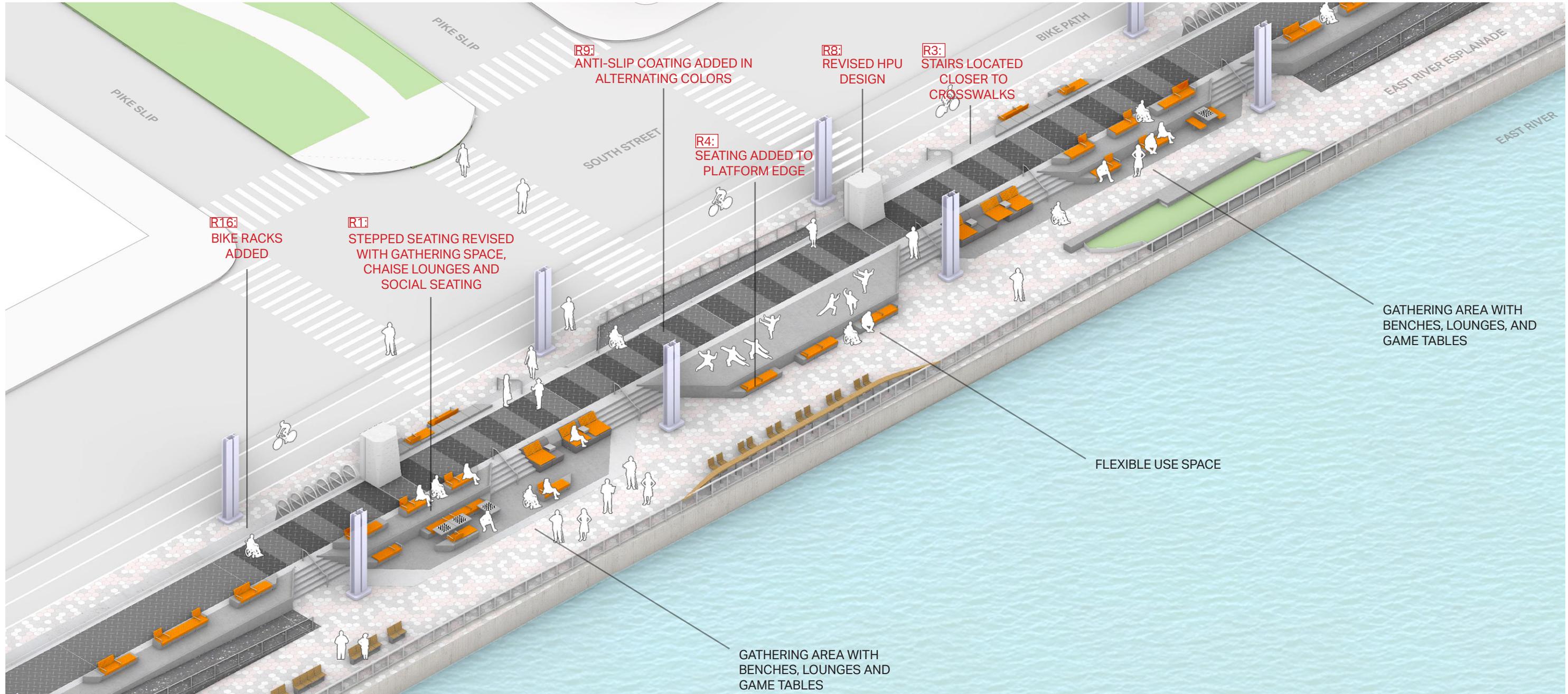


	SITE ENTRY		ESPLANADE		COMPANION SEATING
	PEDESTRIAN		12' ACCESS AISLE		HPU ACCESS
	BICYCLE				

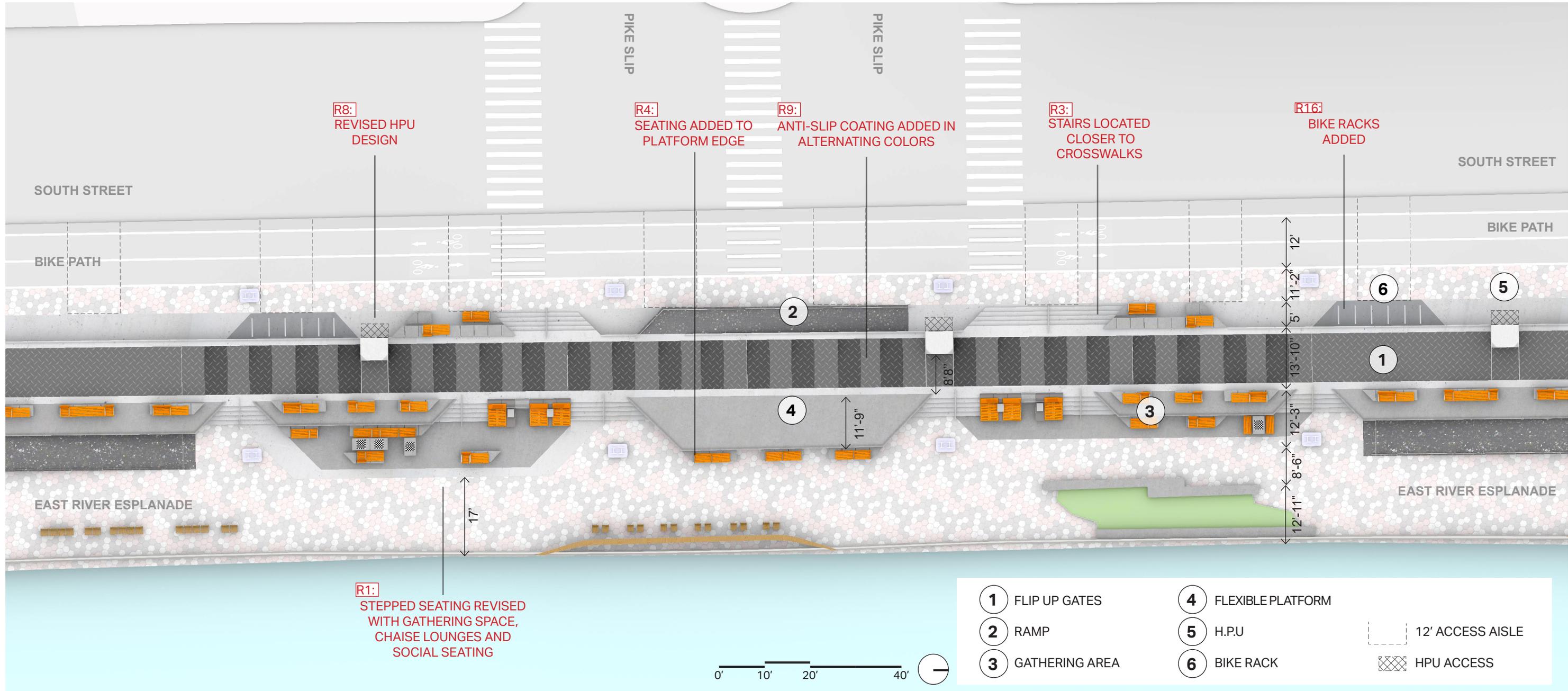
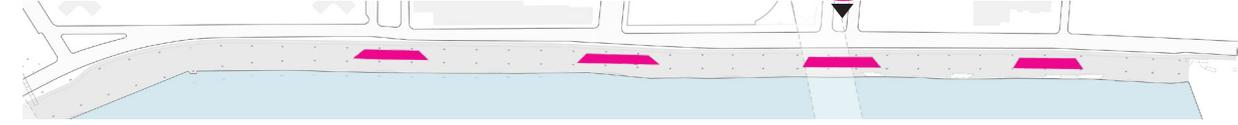
SOCIAL POCKET | MARKET SLIP



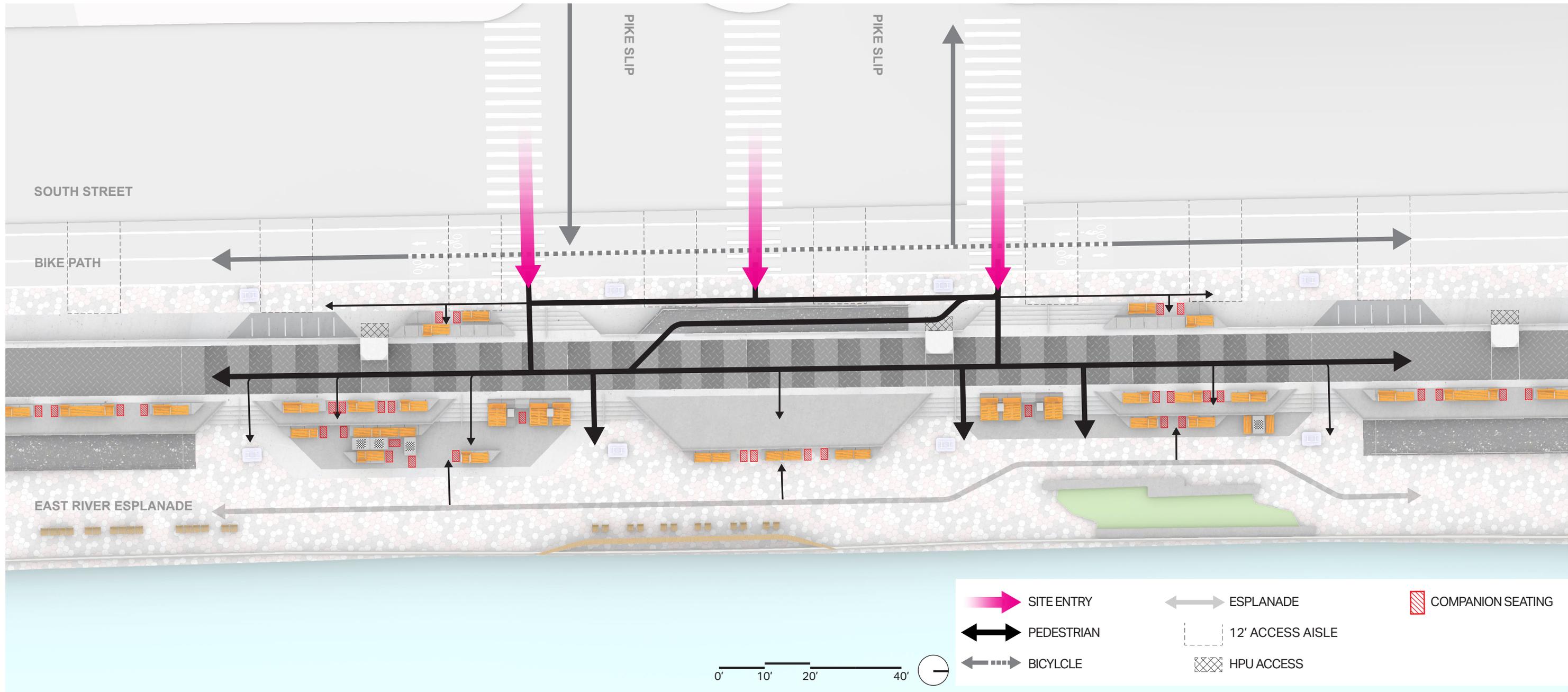
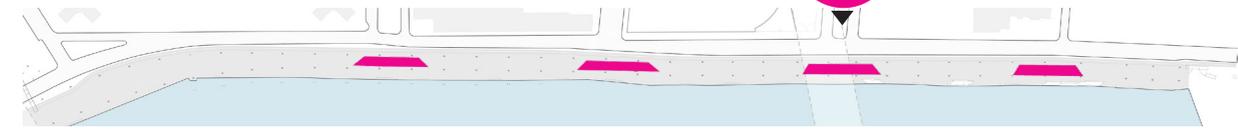
SOCIAL POCKET | PIKE SLIP



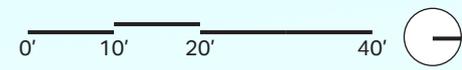
SOCIAL POCKET | PIKE SLIP PLAN



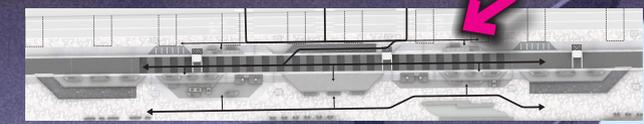
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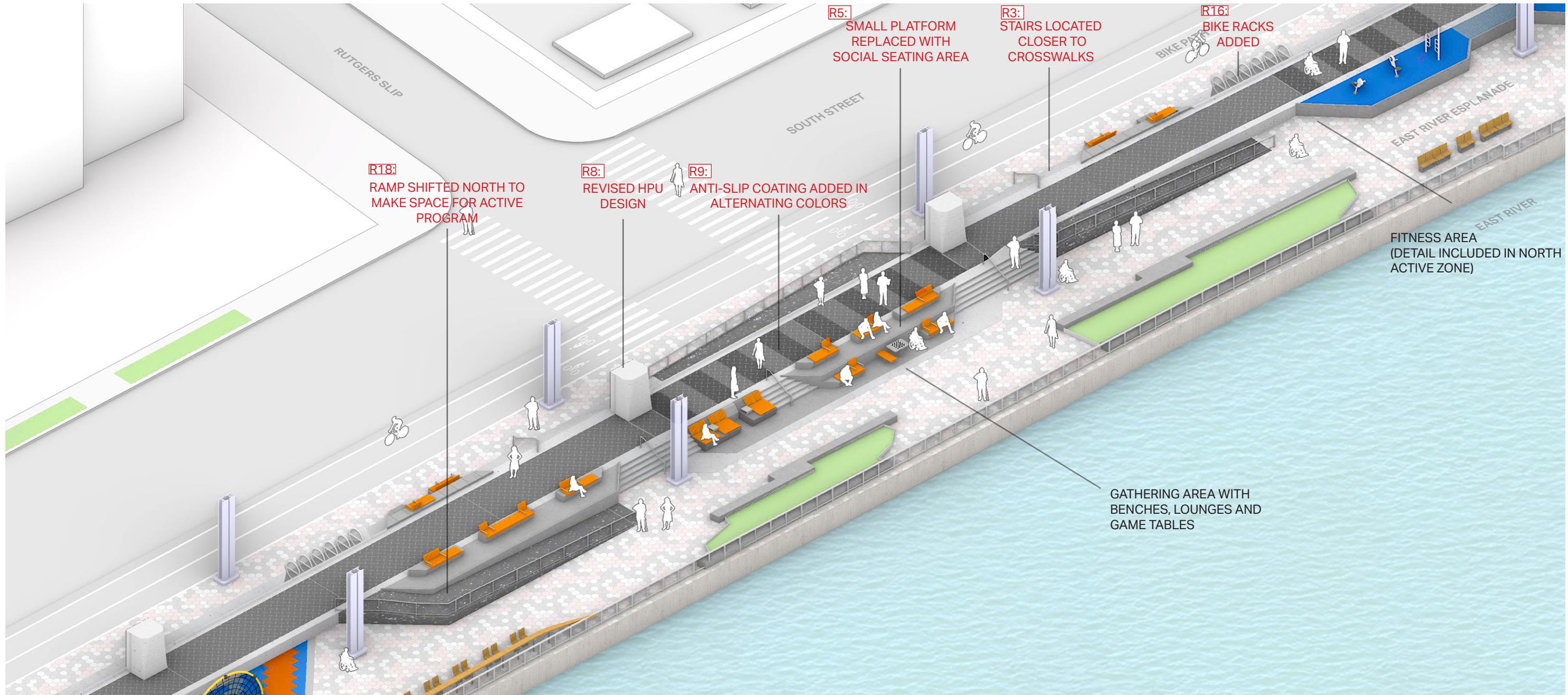
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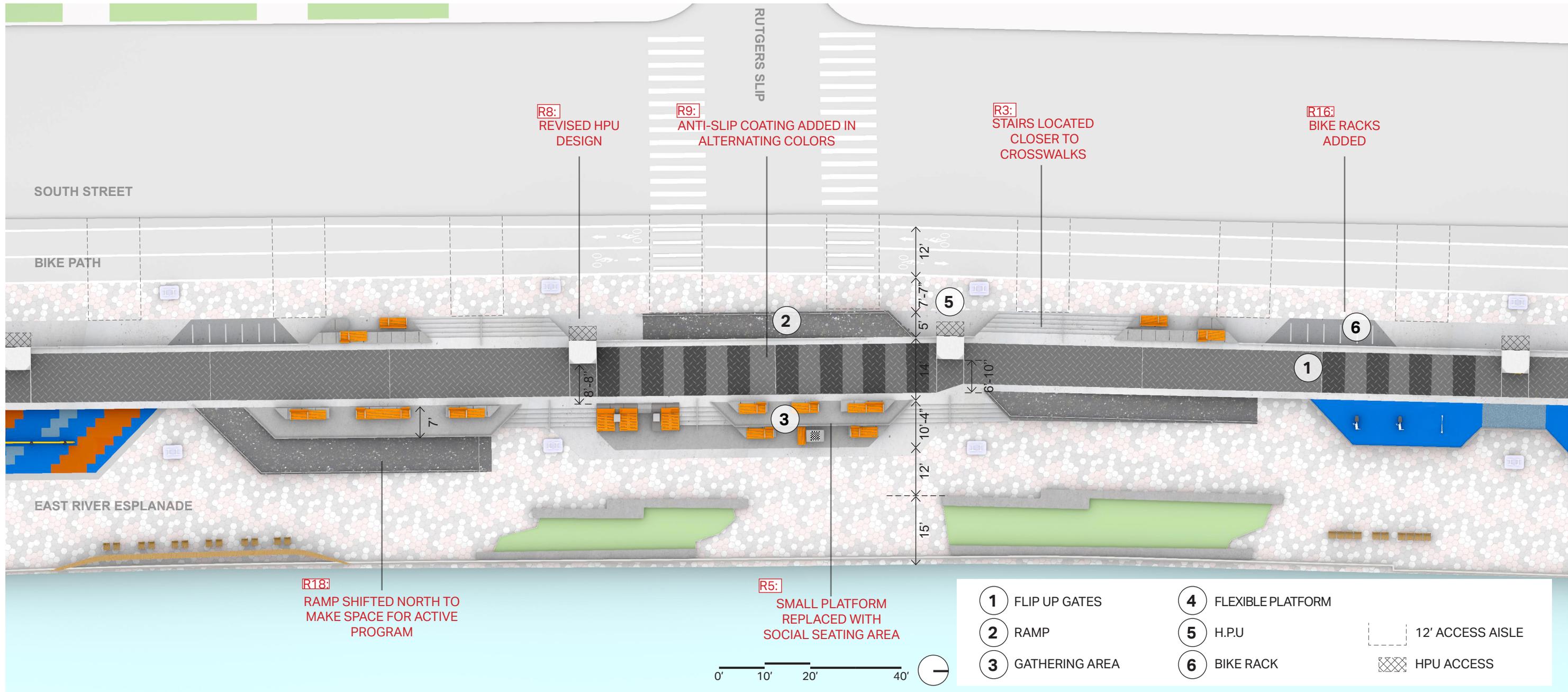
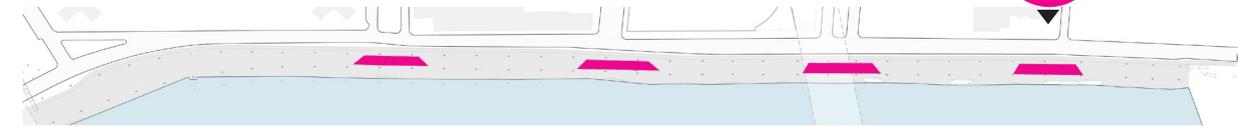
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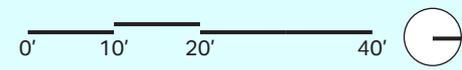
SOCIAL POCKET | RUTGERS SLIP



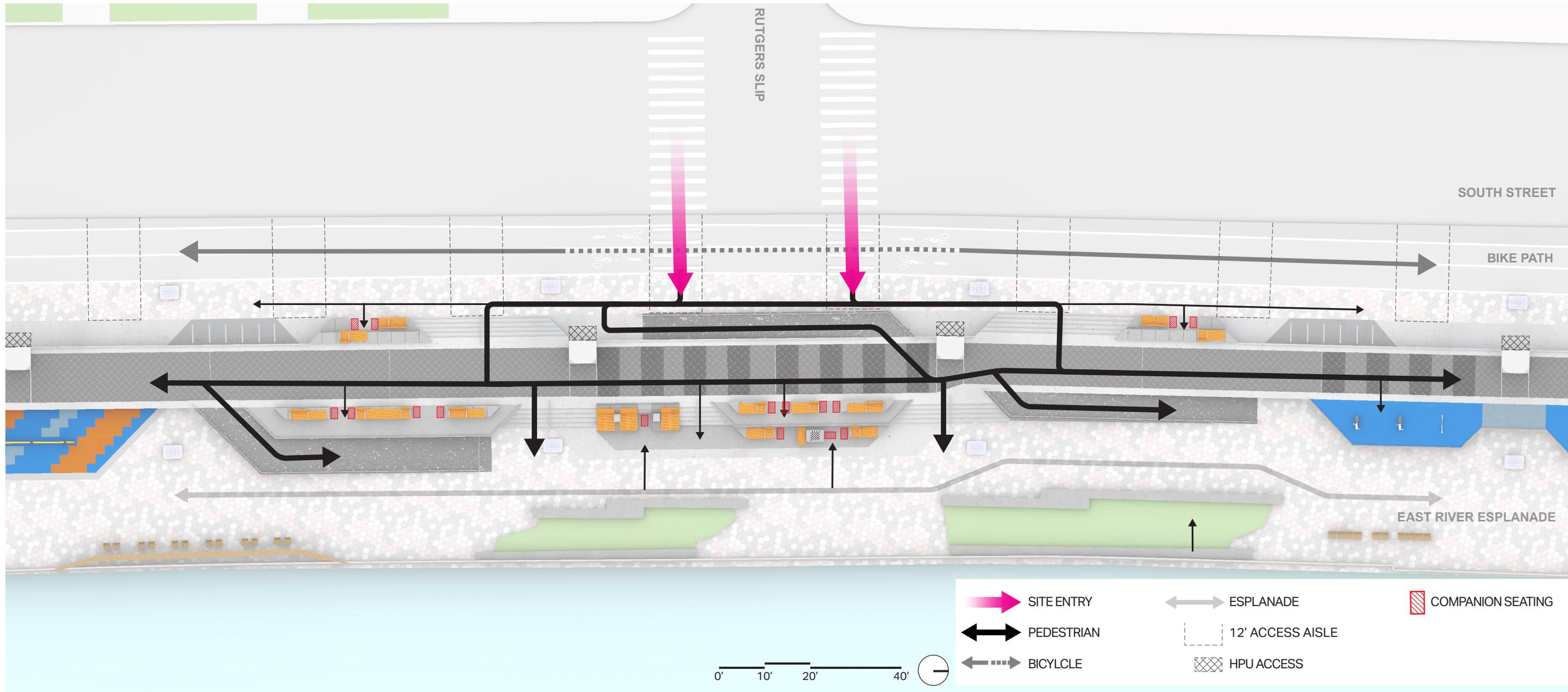
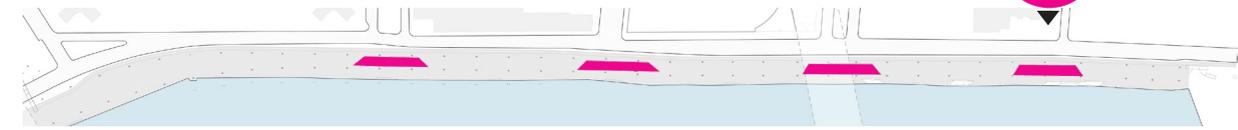
SOCIAL POCKET | RUTGERS SLIP PLAN



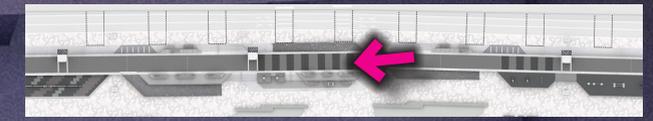
- 1 FLIP UP GATES
- 2 RAMP
- 3 GATHERING AREA
- 4 FLEXIBLE PLATFORM
- 5 H.P.U
- 6 BIKE RACK
- 12' ACCESS AISLE
- HPU ACCESS



SOCIAL POCKET | RUTGERS SLIP CIRCULATION



SOCIAL POCKET | RUTGERS SLIP



PASSIVE POCKETS



SOCIAL
POCKETS



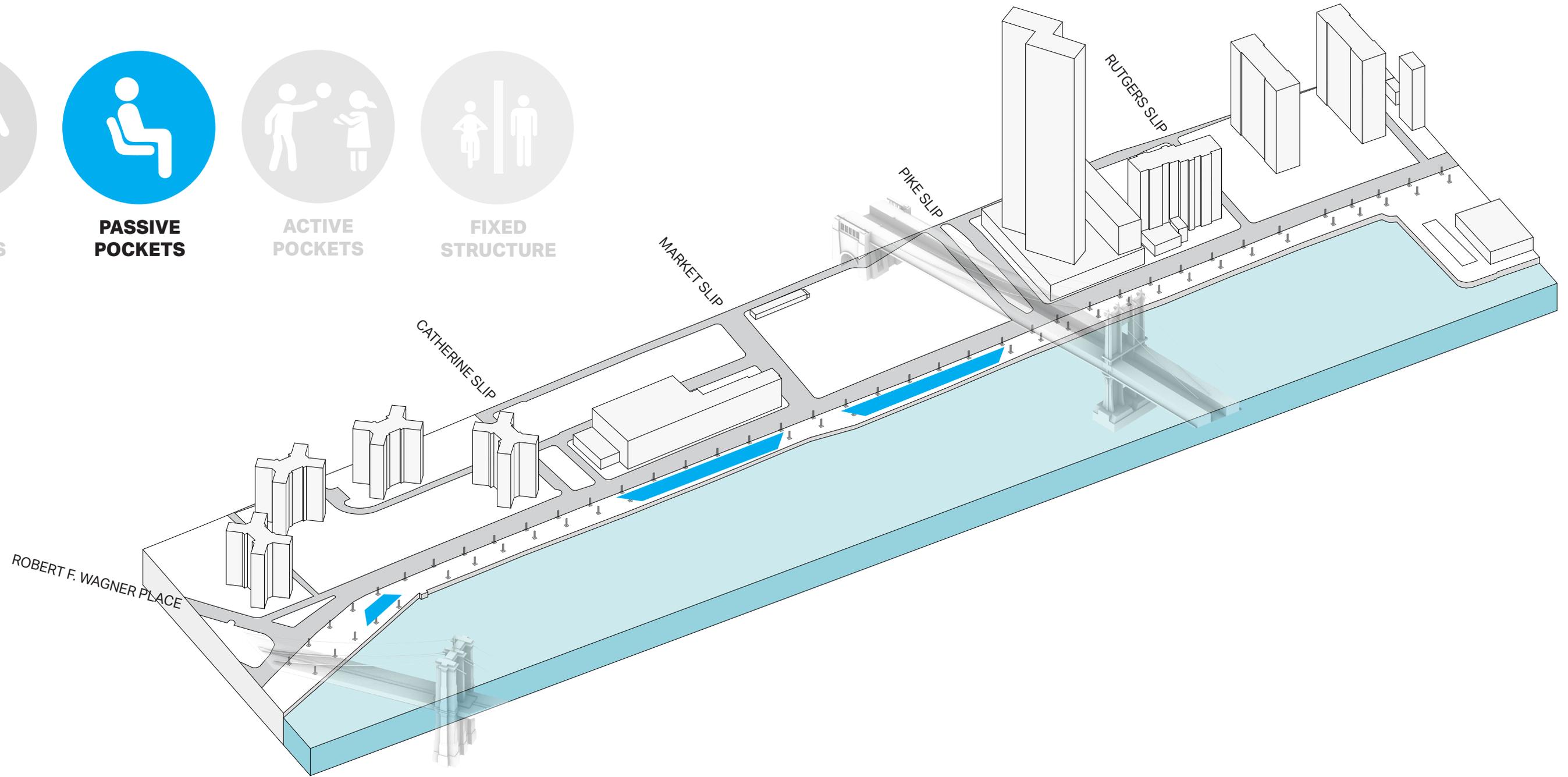
PASSIVE
POCKETS



ACTIVE
POCKETS



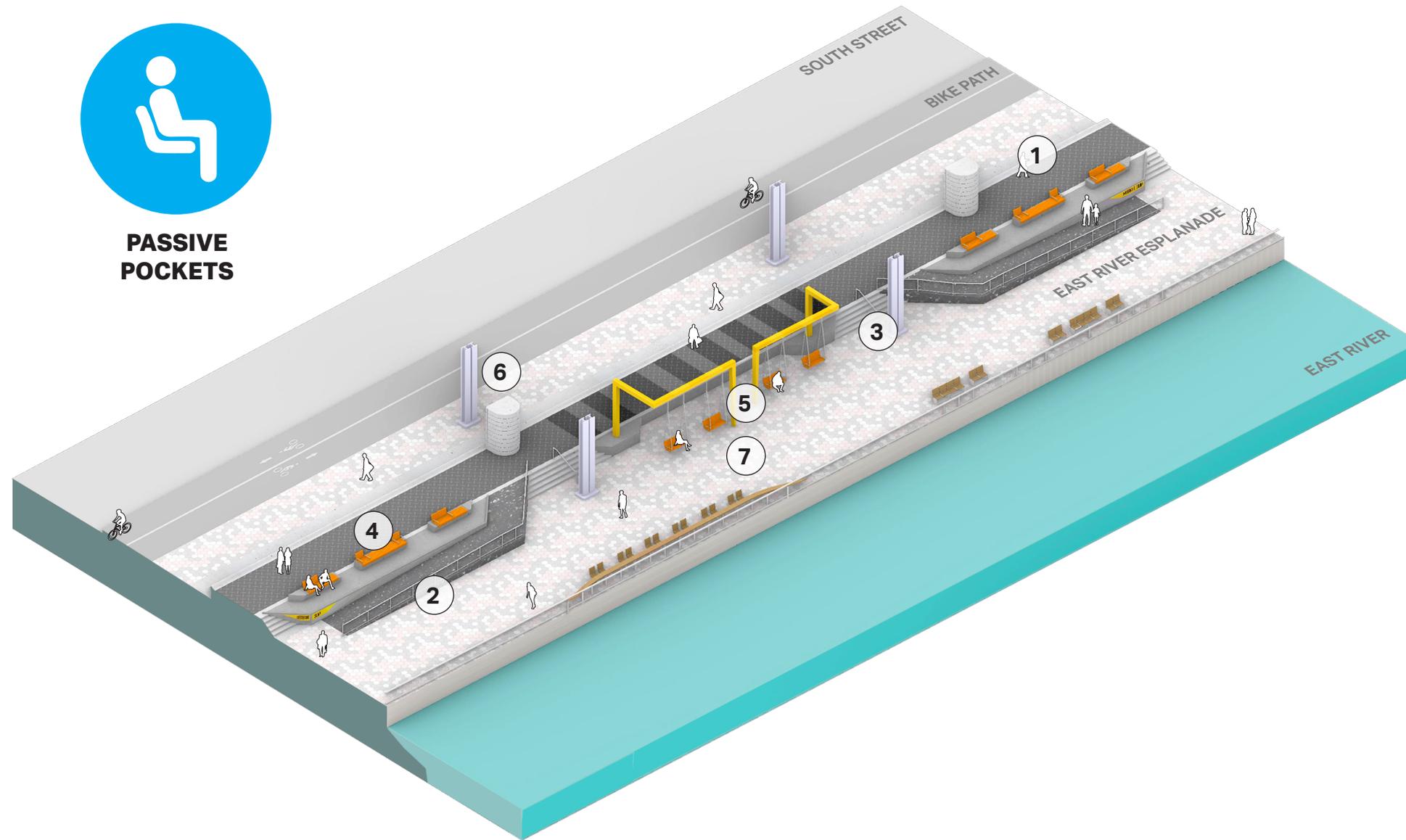
FIXED
STRUCTURE



PASSIVE POCKET | TYPICAL PROGRAM & MATERIAL



PASSIVE POCKETS



- 1 FLIP UP GATES**
BLACK DIAMOND PLATE WITH ANTI-SLIP FINISH


- 2 RAMPS**
DARK CONCRETE WITH SILICA CARBIDE


- 3 STEPS & PAVING**
STANDARD GREY CONCRETE


- 4 SEATING OVERLOOKS**
GREY CONCRETE, ORANGE RECYCLED PLASTIC LUMBER


- 5 GLIDERS**
POWDERCOATED METAL


- 6 HYDRAULIC POWER UNITS**
STANDARD GREY CONCRETE

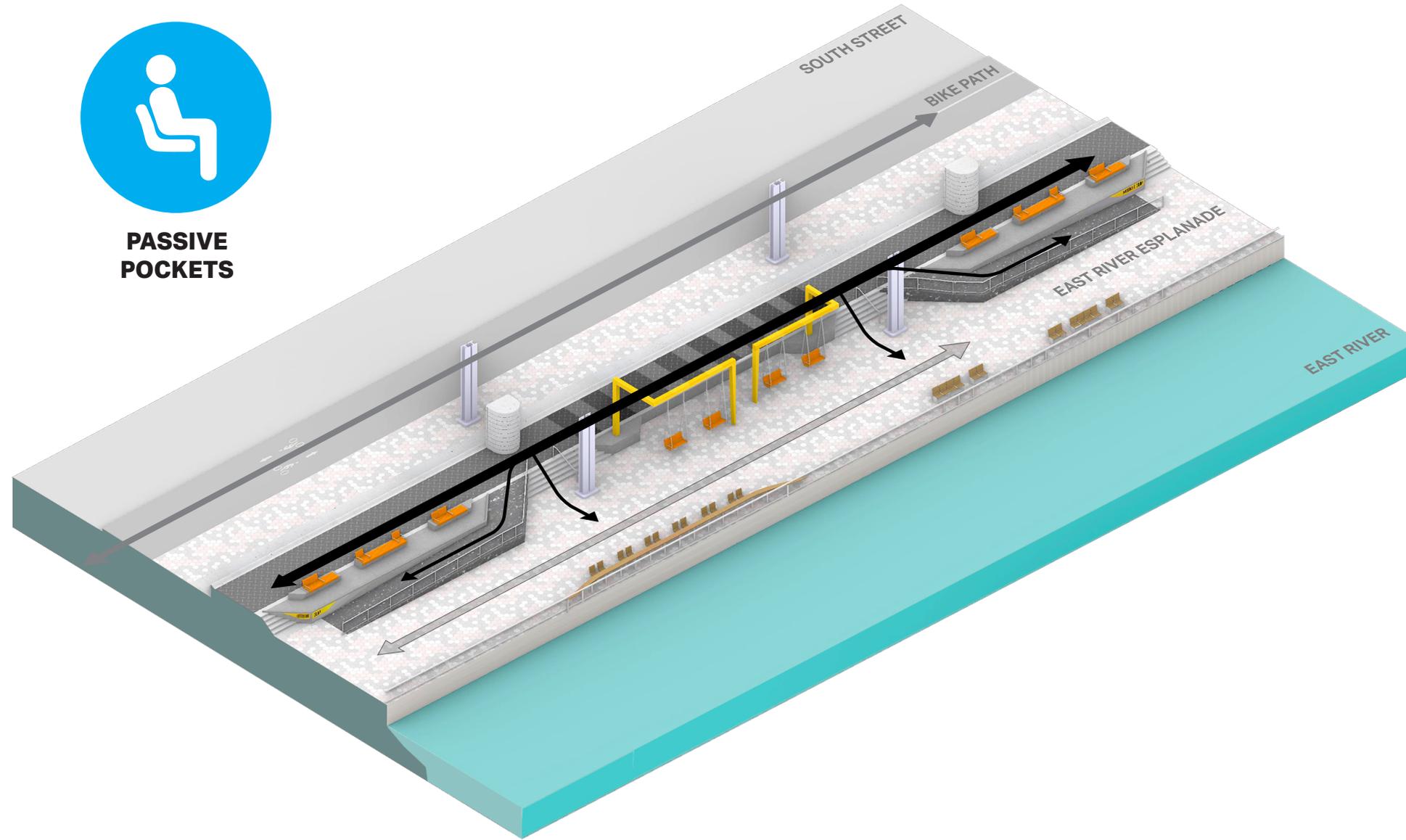

- 7 ESPLANADE**
HEX PAVERS USING EXISTING PATTERN



PASSIVE POCKET | TYPICAL CIRCULATION



**PASSIVE
POCKETS**



PLATFORM WALK



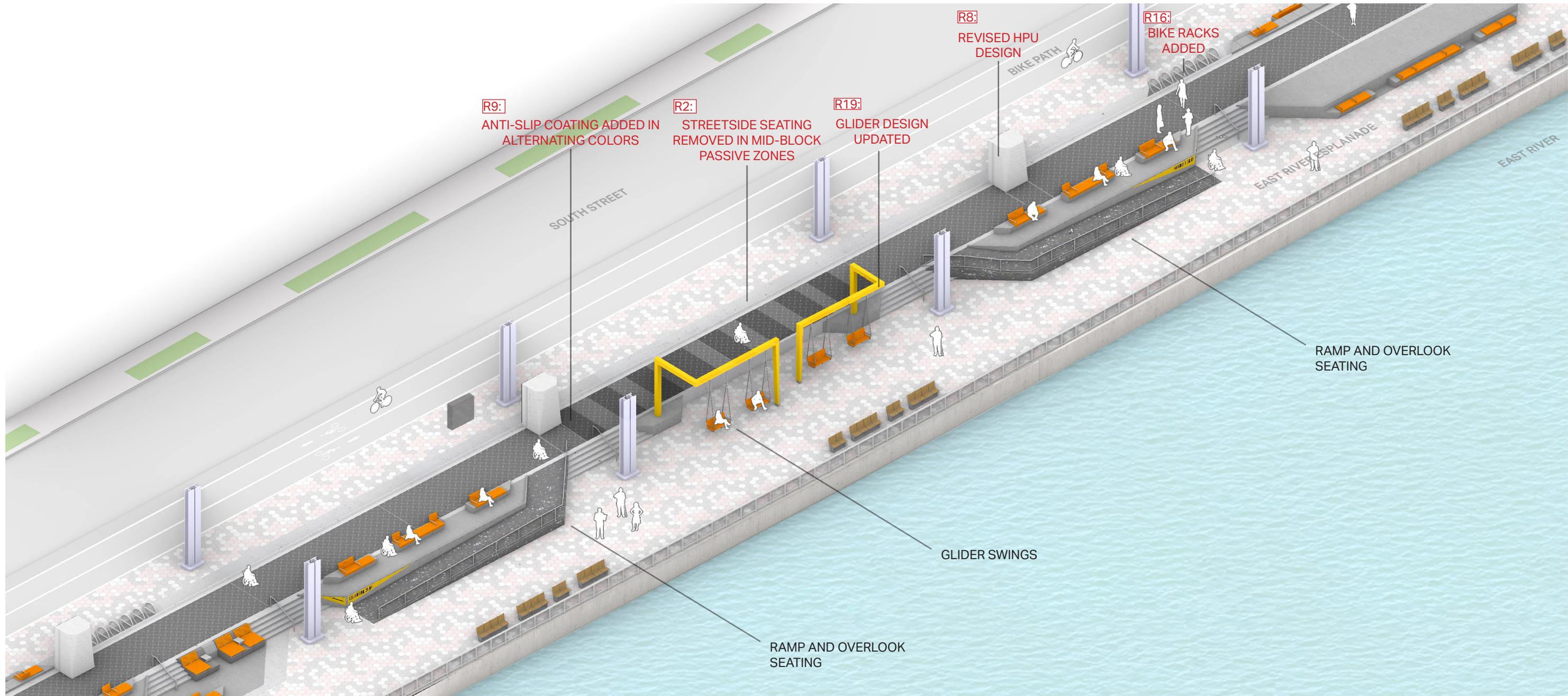
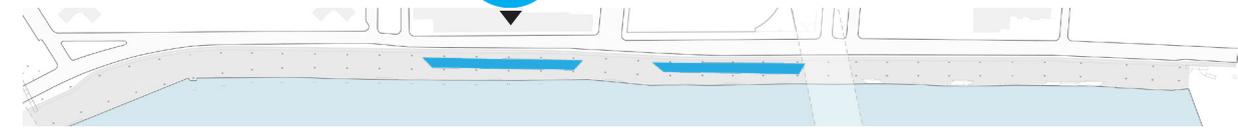
EAST RIVER ESPLANADE



BIKE PATH



PASSIVE POCKET | CATHERINE / MARKET



R9:
ANTI-SLIP COATING ADDED IN ALTERNATING COLORS

R2:
STREETSIDE SEATING REMOVED IN MID-BLOCK PASSIVE ZONES

R19:
GLIDER DESIGN UPDATED

R8:
REVISED HPU DESIGN

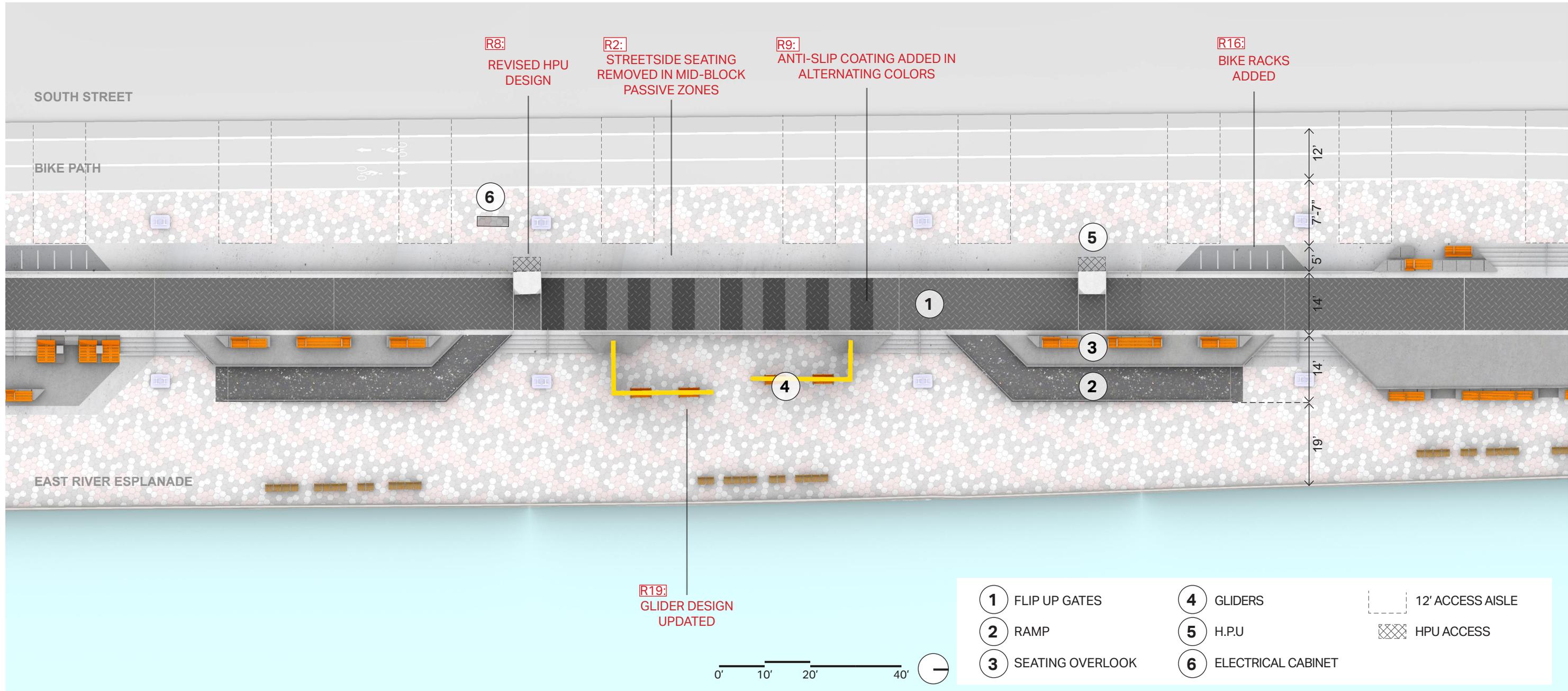
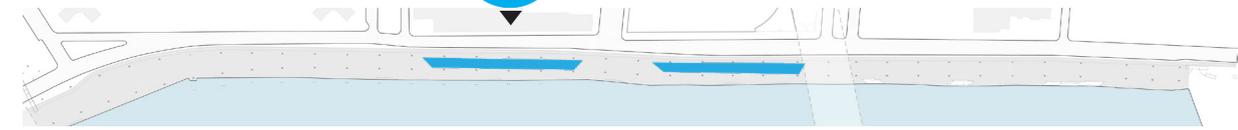
R16:
BIKE RACKS ADDED

RAMP AND OVERLOOK SEATING

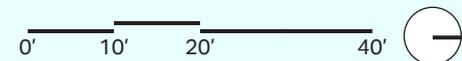
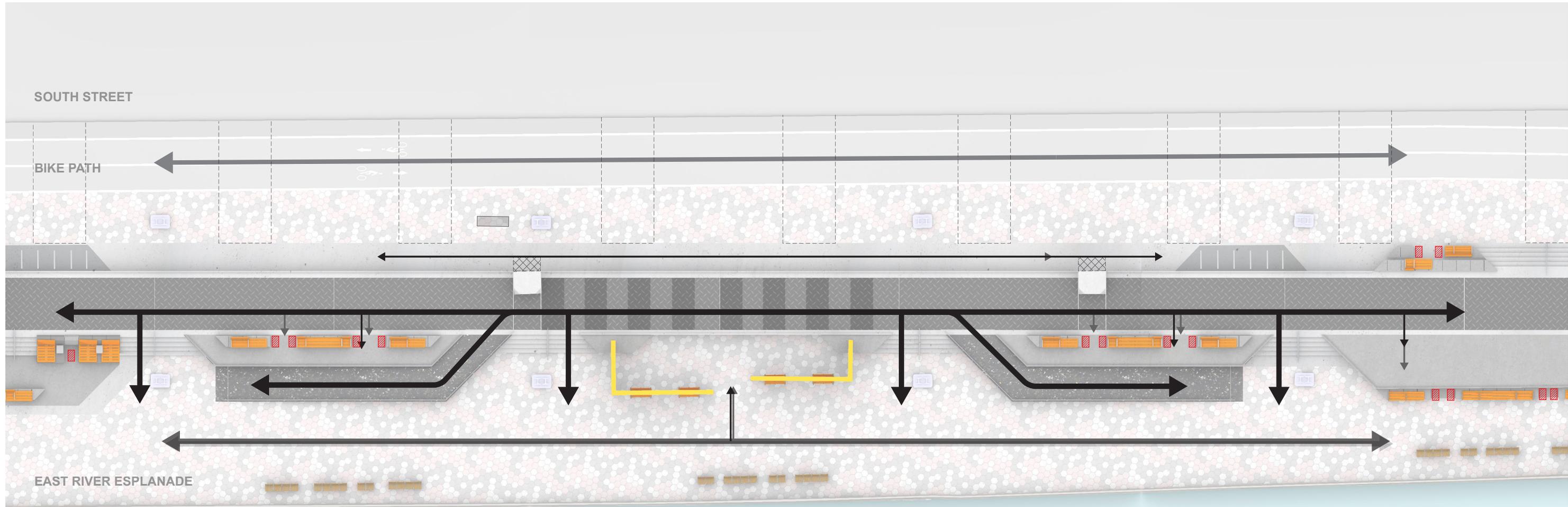
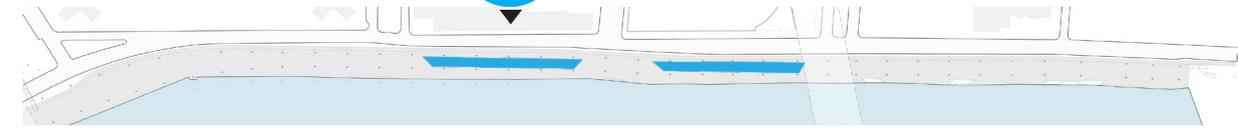
GLIDER SWINGS

RAMP AND OVERLOOK SEATING

PASSIVE POCKET | CATHERINE / MARKET PLAN

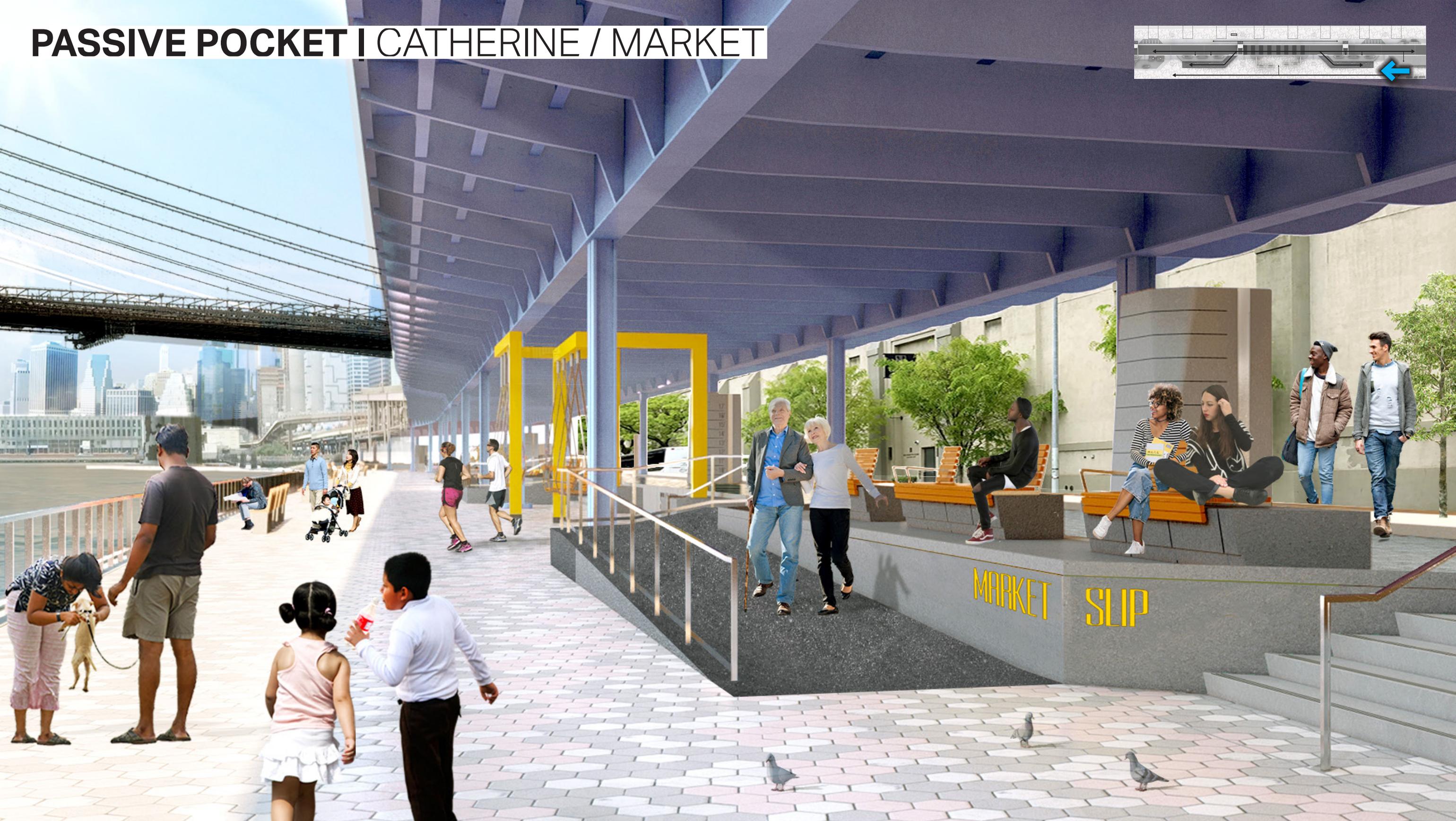
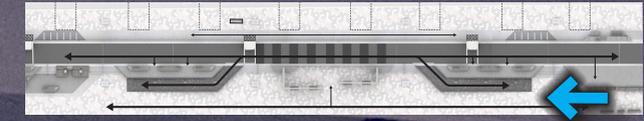


PASSIVE POCKET | CATHERINE / MARKET CIRCULATION

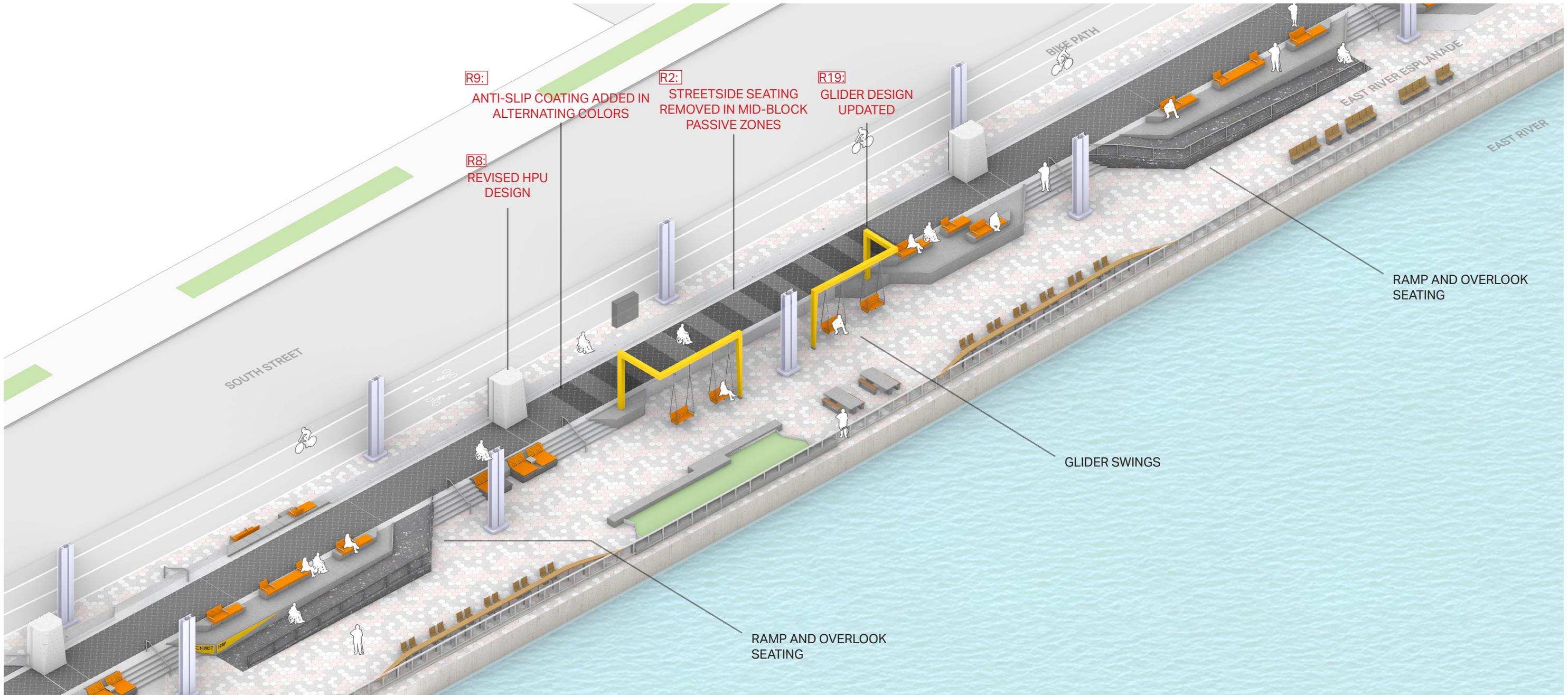
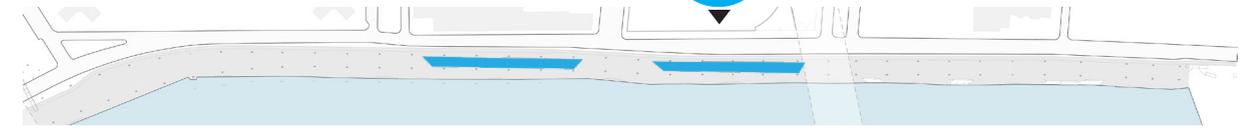


	PEDESTRIAN		12' ACCESS AISLE
	BICYCLE		HPU CLEAR ACCESS
	ESPLANADE		COMPANION SEATING

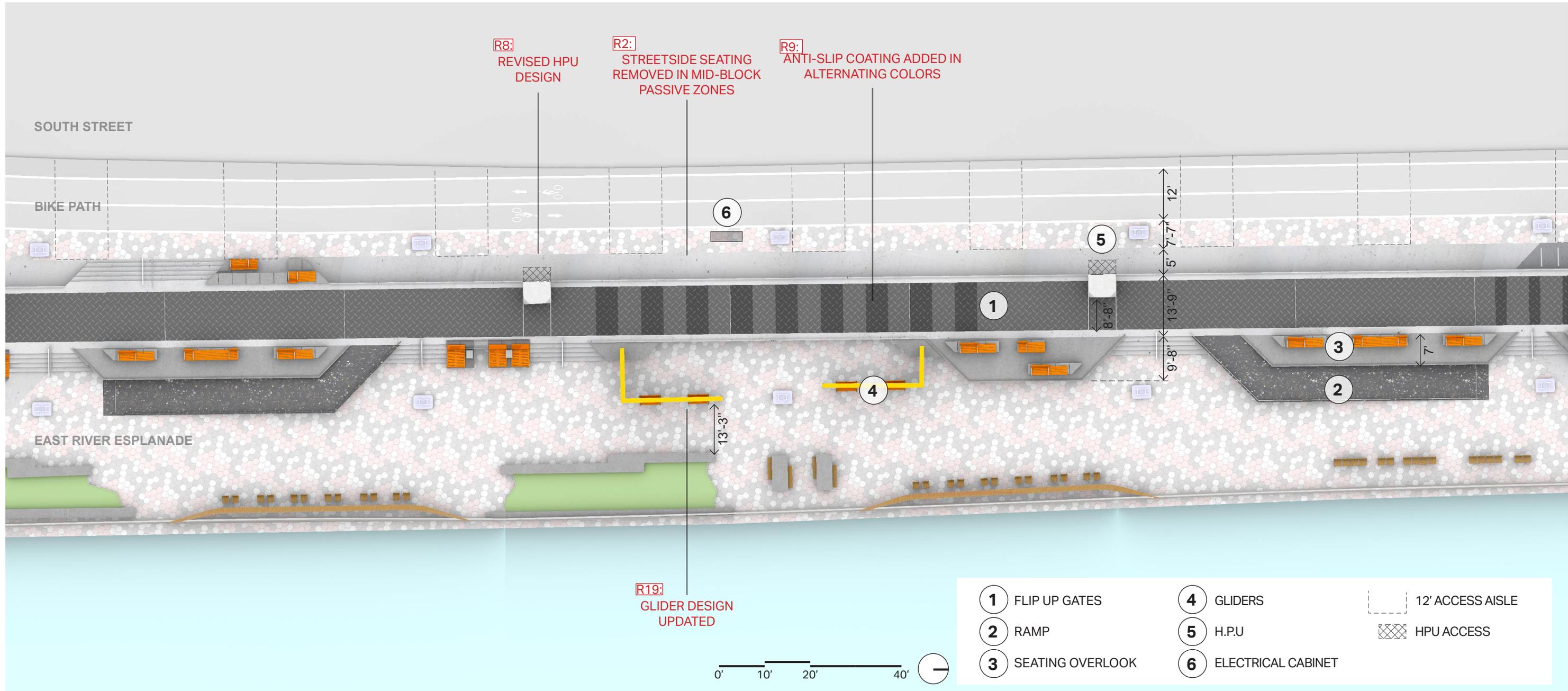
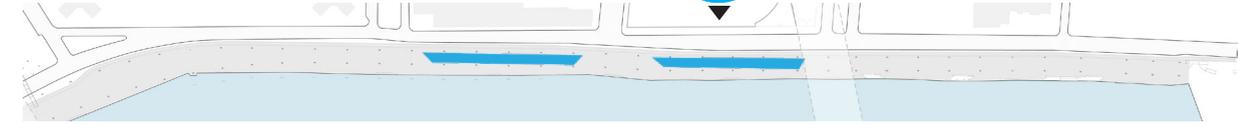
PASSIVE POCKET | CATHERINE / MARKET



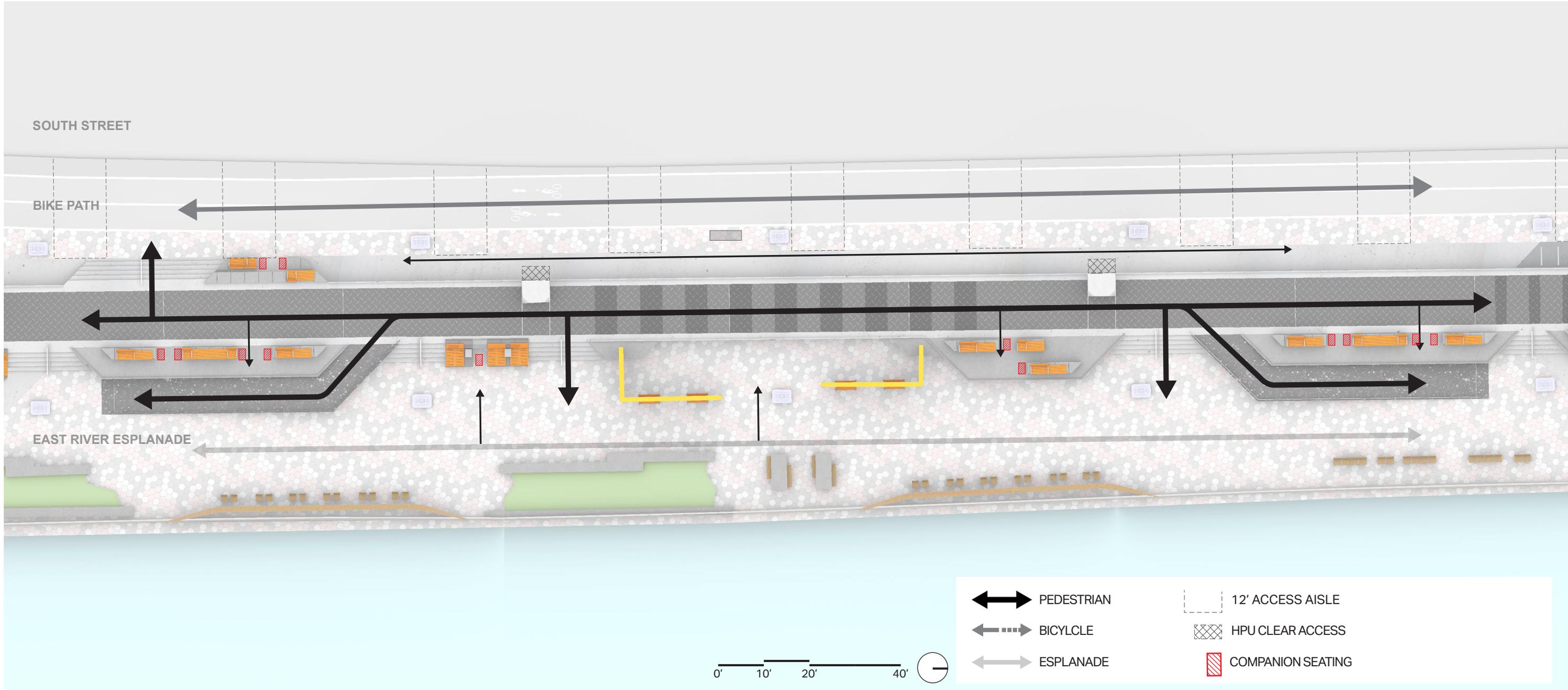
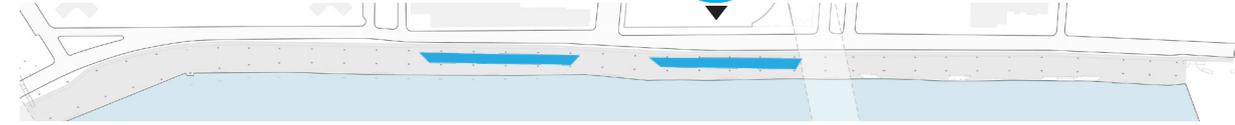
PASSIVE POCKET | MARKET / PIKE



PASSIVE POCKET | MARKET / PIKE PLAN



PASSIVE POCKET | MARKET / PIKE CIRCULATION



←→ PEDESTRIAN

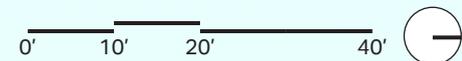
←- - - BICYCLE

← ESPLANADE

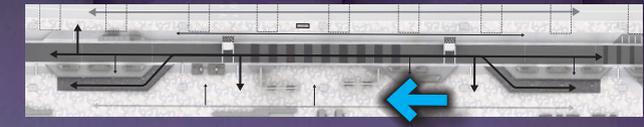
- - - 12' ACCESS AISLE

▣ HPU CLEAR ACCESS

▨ COMPANION SEATING



PASSIVE POCKET | CATHERINE / MARKET



ACTIVE POCKETS



SOCIAL
POCKETS



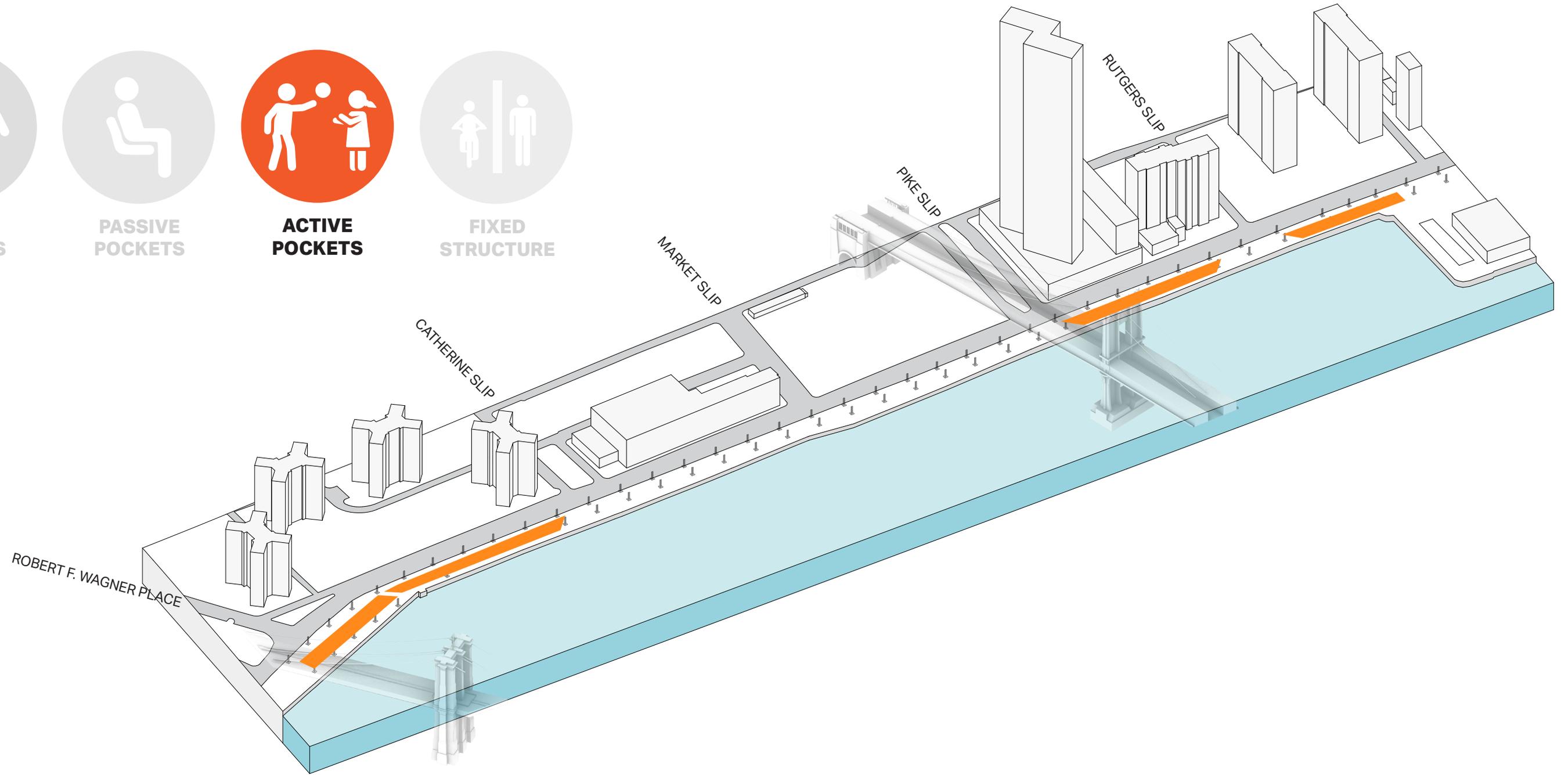
PASSIVE
POCKETS



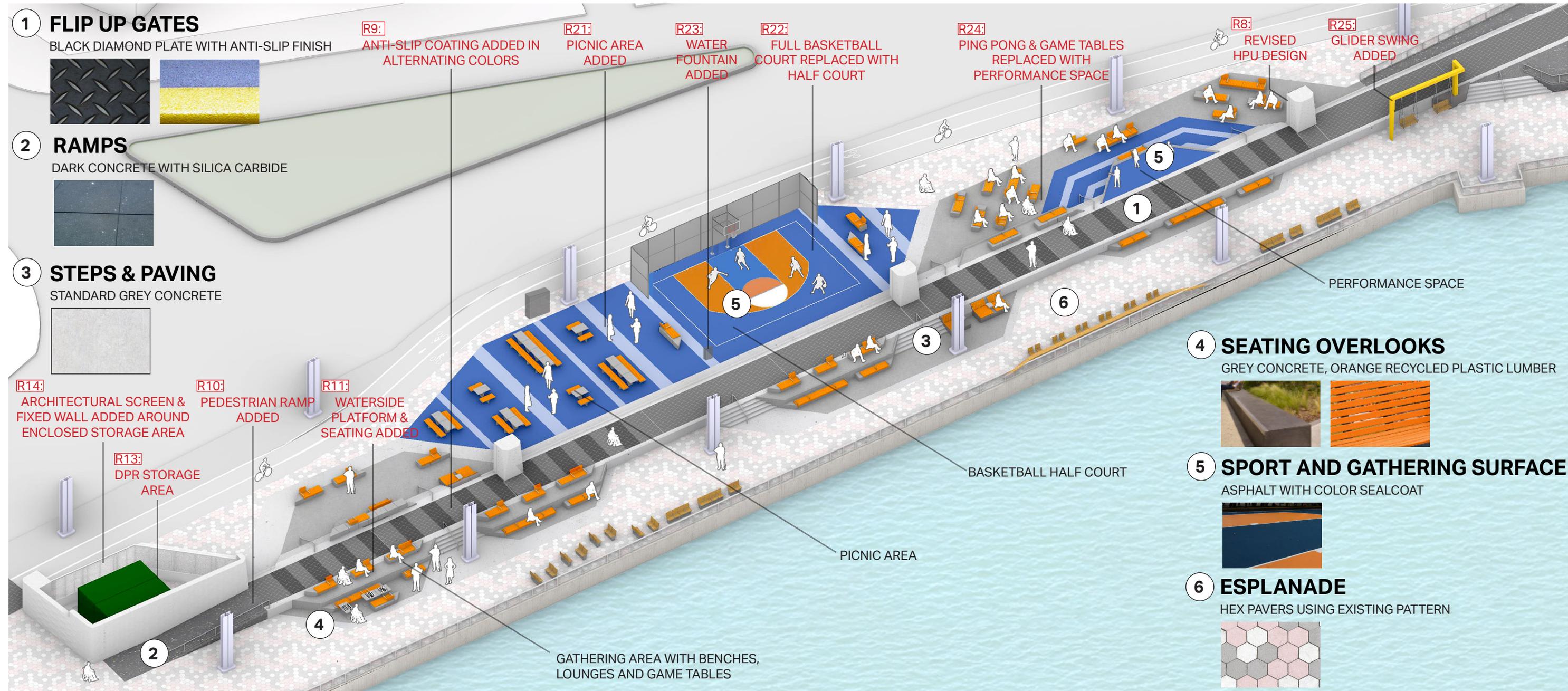
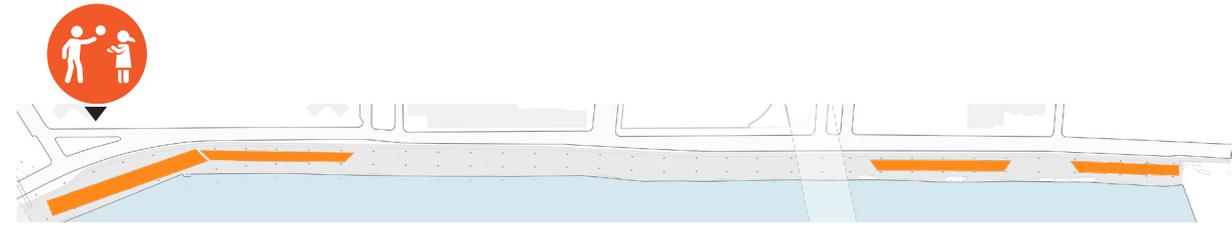
**ACTIVE
POCKETS**



FIXED
STRUCTURE



SOUTH ACTIVE | SPORT / PERFORMANCE



1 FLIP UP GATES
BLACK DIAMOND PLATE WITH ANTI-SLIP FINISH

R9: ANTI-SLIP COATING ADDED IN ALTERNATING COLORS

R21: PICNIC AREA ADDED

R23: WATER FOUNTAIN ADDED

R22: FULL BASKETBALL COURT REPLACED WITH HALF COURT

R24: PING PONG & GAME TABLES REPLACED WITH PERFORMANCE SPACE

R8: REVISED HPU-DESIGN

R25: GLIDER SWING ADDED

2 RAMPS
DARK CONCRETE WITH SILICA CARBIDE

3 STEPS & PAVING
STANDARD GREY CONCRETE

R14: ARCHITECTURAL SCREEN & FIXED WALL ADDED AROUND ENCLOSED STORAGE AREA

R10: PEDESTRIAN RAMP ADDED

R11: WATERSIDE PLATFORM & SEATING ADDED

R13: DPR STORAGE AREA

4 SEATING OVERLOOKS
GREY CONCRETE, ORANGE RECYCLED PLASTIC LUMBER

5 SPORT AND GATHERING SURFACE
ASPHALT WITH COLOR SEALCOAT

6 ESPLANADE
HEX PAVERS USING EXISTING PATTERN

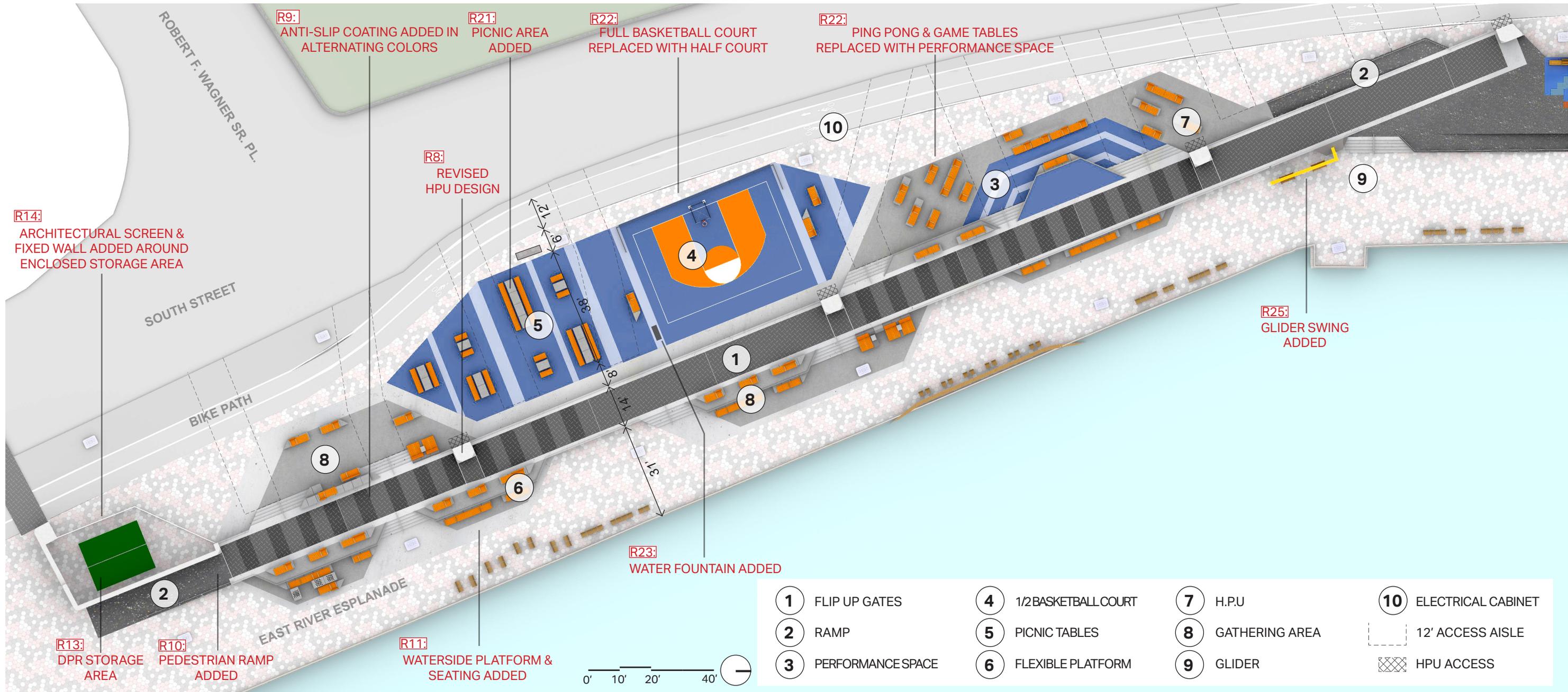
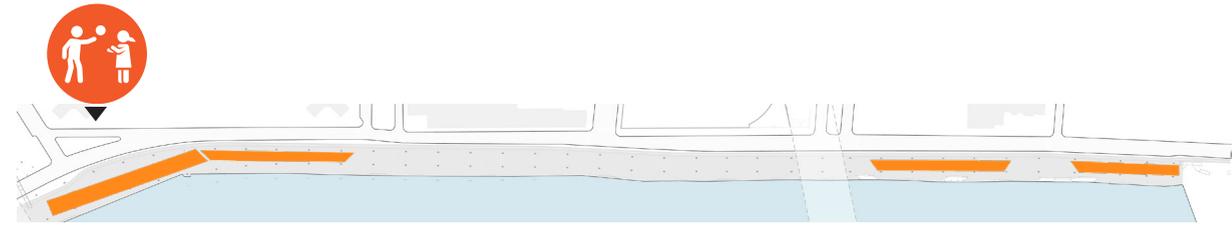
BASKETBALL HALF COURT

PICNIC AREA

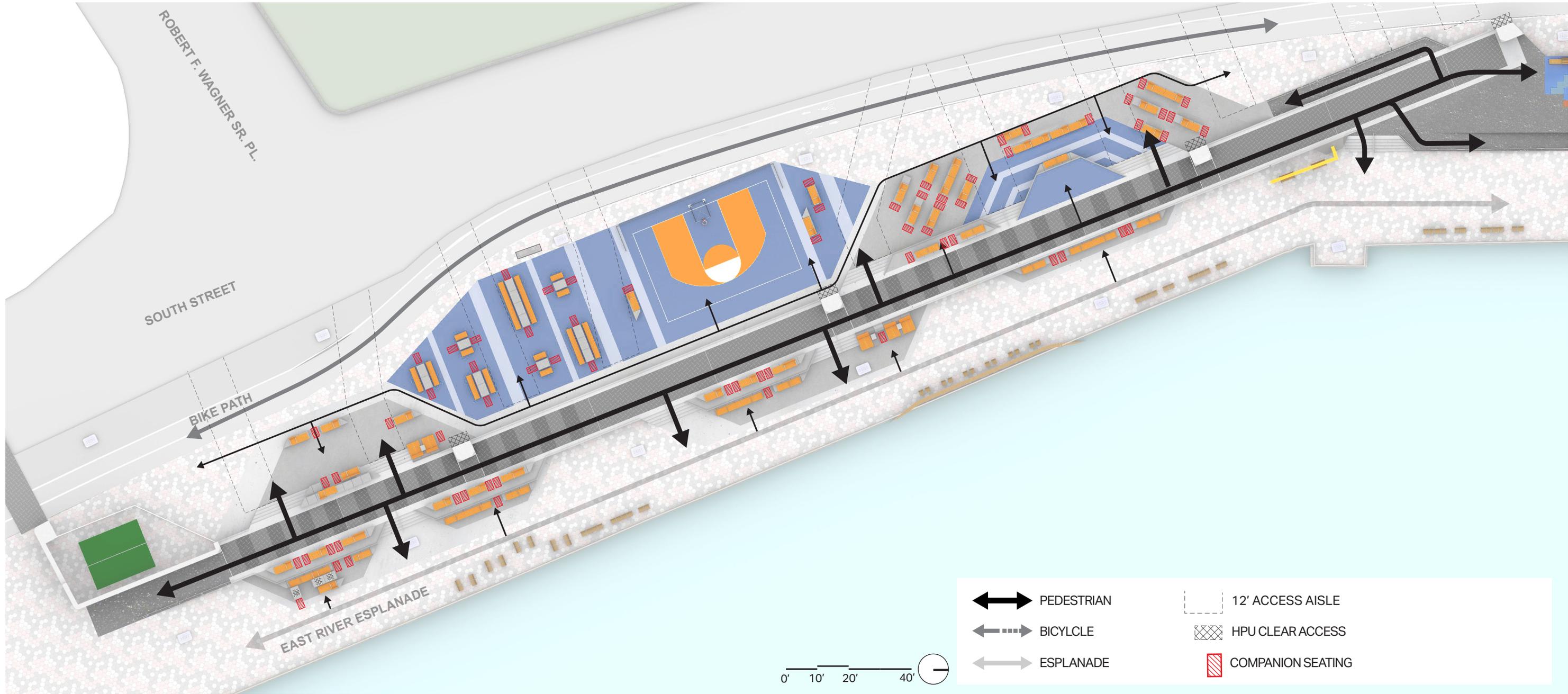
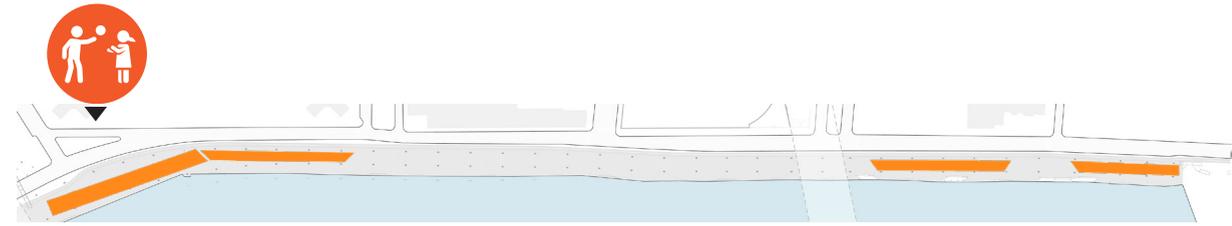
GATHERING AREA WITH BENCHES, LOUNGES AND GAME TABLES

PERFORMANCE SPACE

SOUTH ACTIVE | SPORT / PERFORMANCE

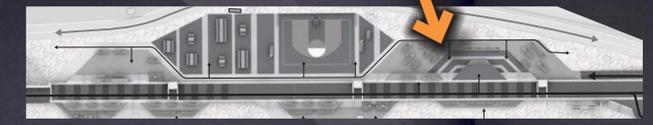


SOUTH ACTIVE | SPORT / PERFORMANCE

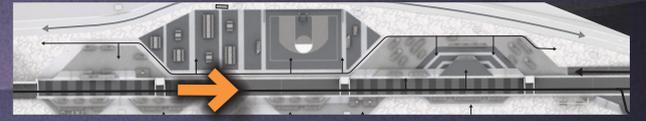


	PEDESTRIAN		12' ACCESS AISLE
	BICYCLE		HPU CLEAR ACCESS
	ESPLANADE		COMPANION SEATING

SOUTH ACTIVE | PERFORMANCE



SOUTH ACTIVE | SPORT



SOUTH ACTIVE | PLAY & FITNESS



1 PLAYGROUND SURFACING



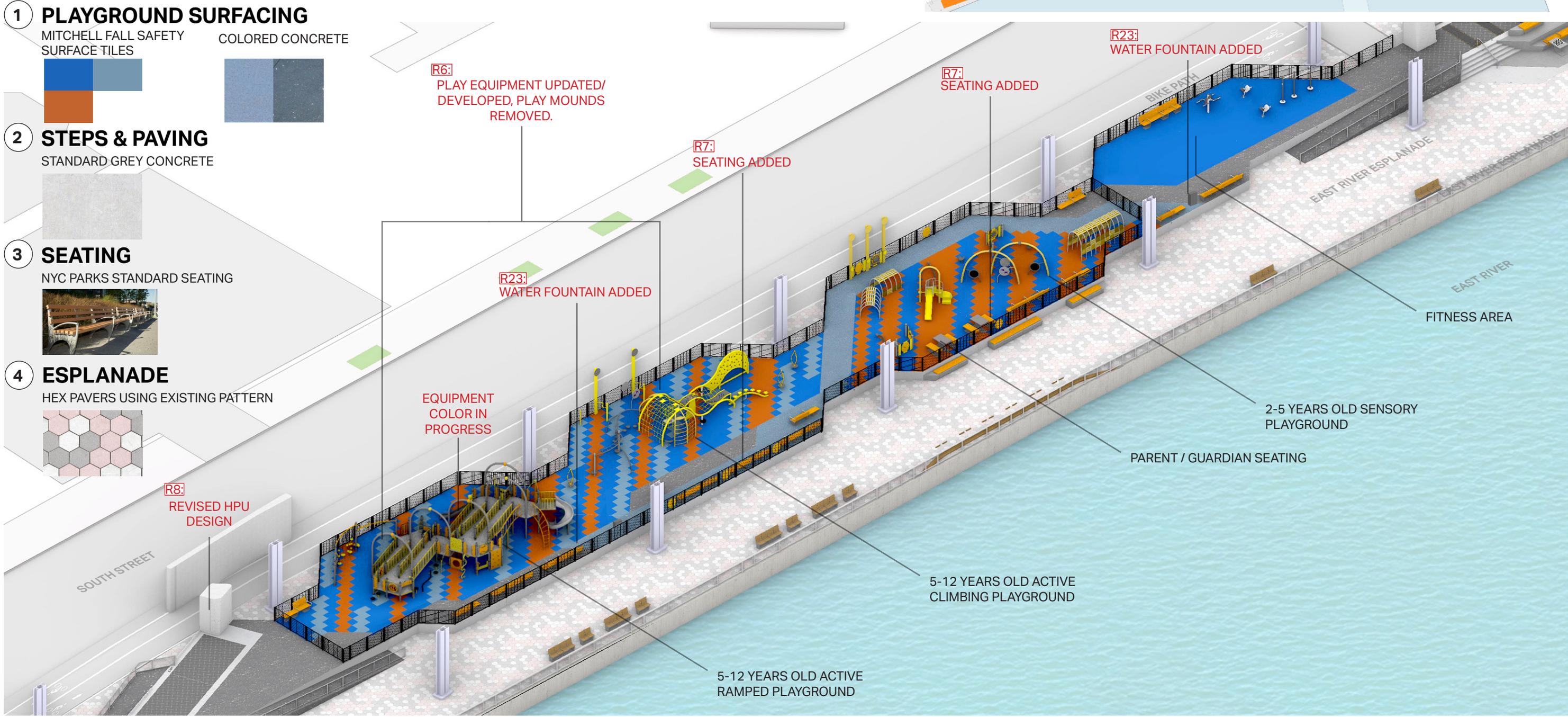
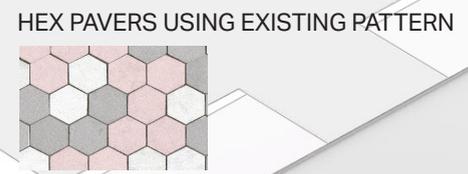
2 STEPS & PAVING



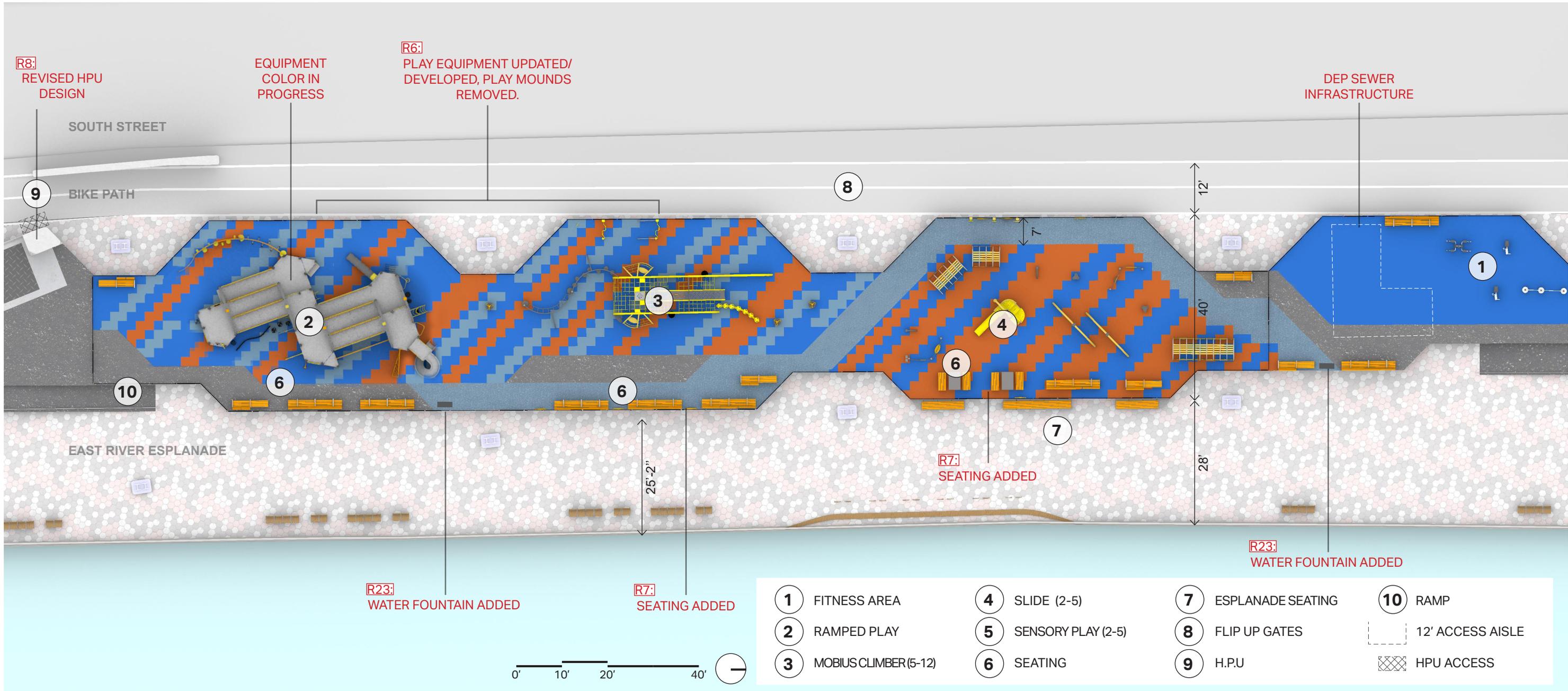
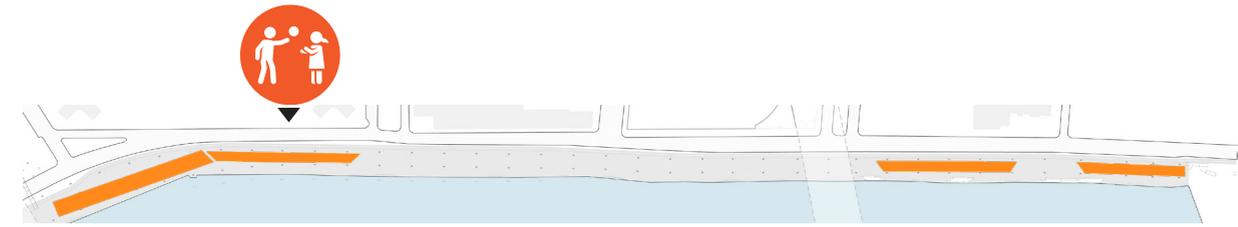
3 SEATING



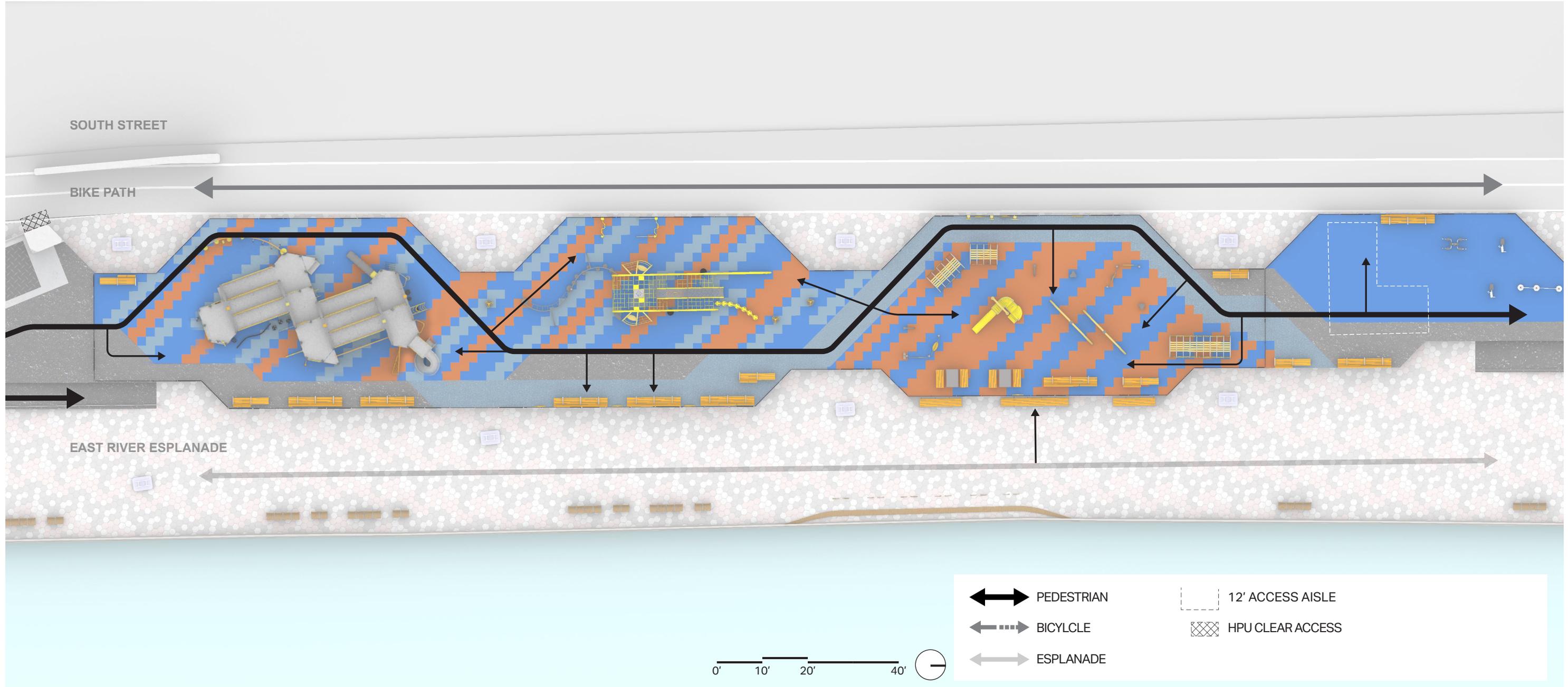
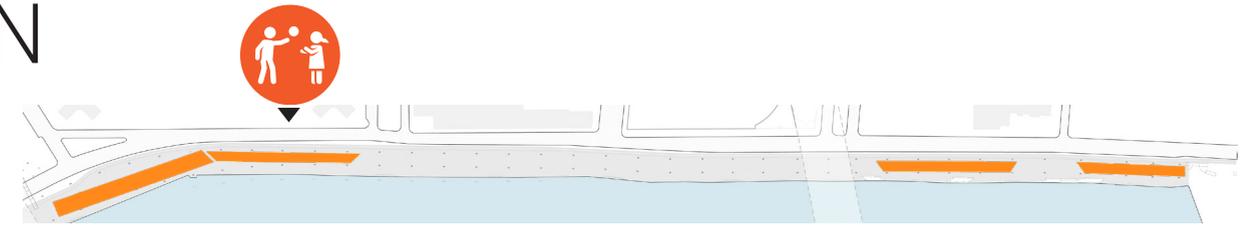
4 ESPLANADE



SOUTH ACTIVE | PLAY & FITNESS PLAN



SOUTH ACTIVE | PLAY & FITNESS CIRCULATION





EQUIPMENT COLOR IN PROGRESS



SOUTH ACTIVE | 2-5 PLAY EQUIPMENT

EQUIPMENT COLOR IN PROGRESS



ARCHED WALKWAYS
WITH SENSORY BELLS

LASER CUT PLAY PANELS
WITH SHADOW MOVEMENT

SADDLE SPINNER

STEEL TUBE ARCHES
INTERACTIVE PANELS

WHIRLY GIG
SOCIAL SPINNING PANELS

CHIT CHAT NOODLES

STAINLESS STEEL SLIDE
RPL TRANSITION PLATFORM

SOUTH ACTIVE | 5-12 PLAY EQUIPMENT

EQUIPMENT COLOR IN PROGRESS



WHIRLY GIG

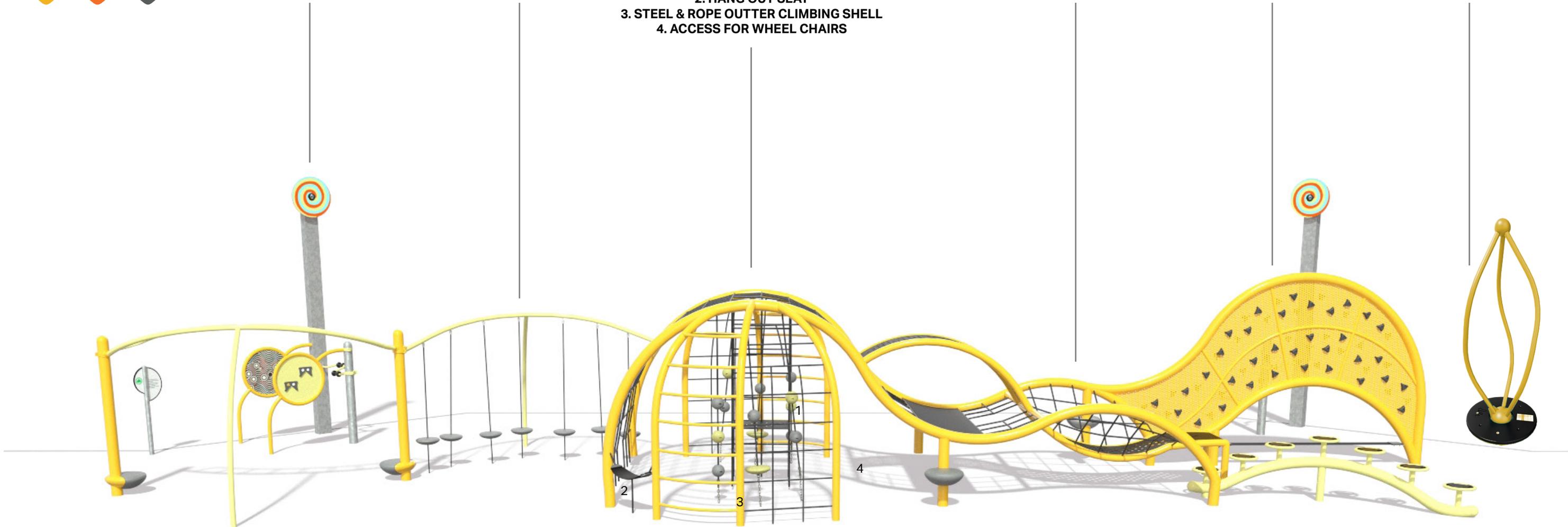
SWIGGLE STIX BRIDGE

- 1. INNER CLIMBING CABLES
- 2. HANG OUT SEAT
- 3. STEEL & ROPE OUTER CLIMBING SHELL
- 4. ACCESS FOR WHEEL CHAIRS

WAVY NET/BELT CLIMBER

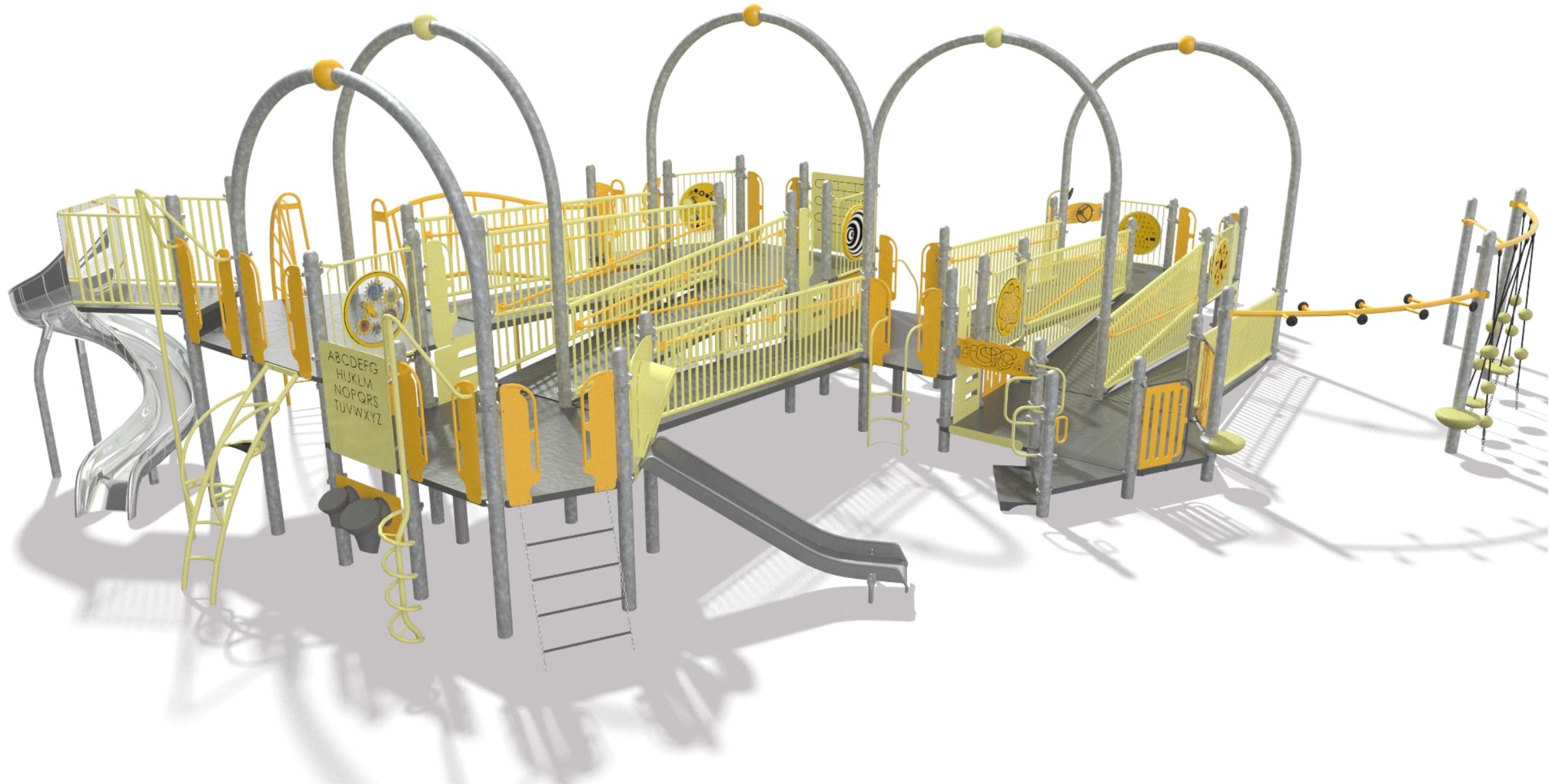
MOBIUS CLIMBERS

CURVA SPINNER



SOUTH ACTIVE | 5-12 RAMPED PLAY EQUIPMENT

EQUIPMENT COLOR IN PROGRESS



SOUTH ACTIVE | FITNESS EQUIPMENT

PULL UP BARS - 5'6" & 7'6" - ADA



ARM BIKE
ADA



PUSH-UP AND LEG LIFT STATION
ADA

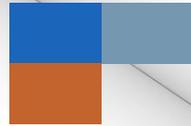


NORTH ACTIVE | PLAY & CLIMB



1 CLIMBING STRUCTURE SURFACING

MITCHELL FALL SAFETY SURFACE TILES



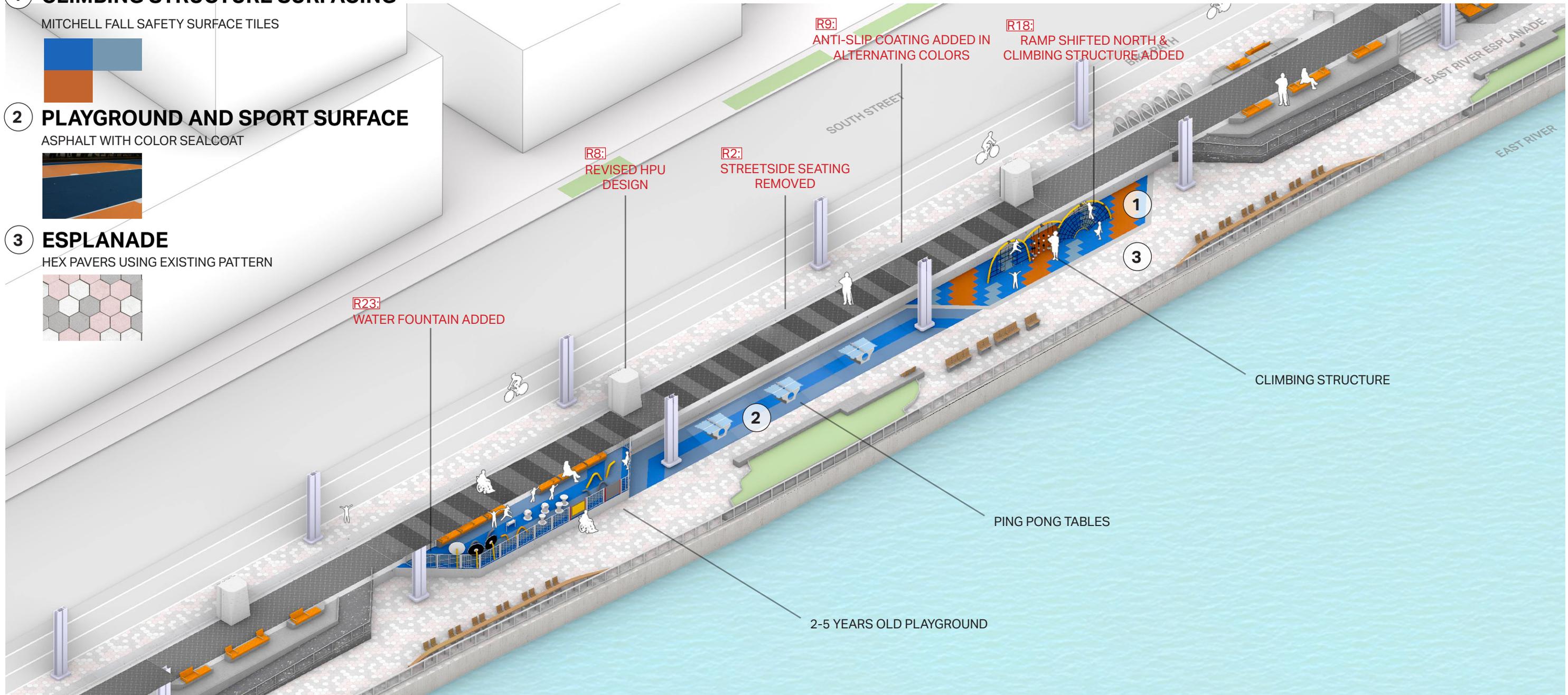
2 PLAYGROUND AND SPORT SURFACE

ASPHALT WITH COLOR SEALCOAT



3 ESPLANADE

HEX PAVERS USING EXISTING PATTERN

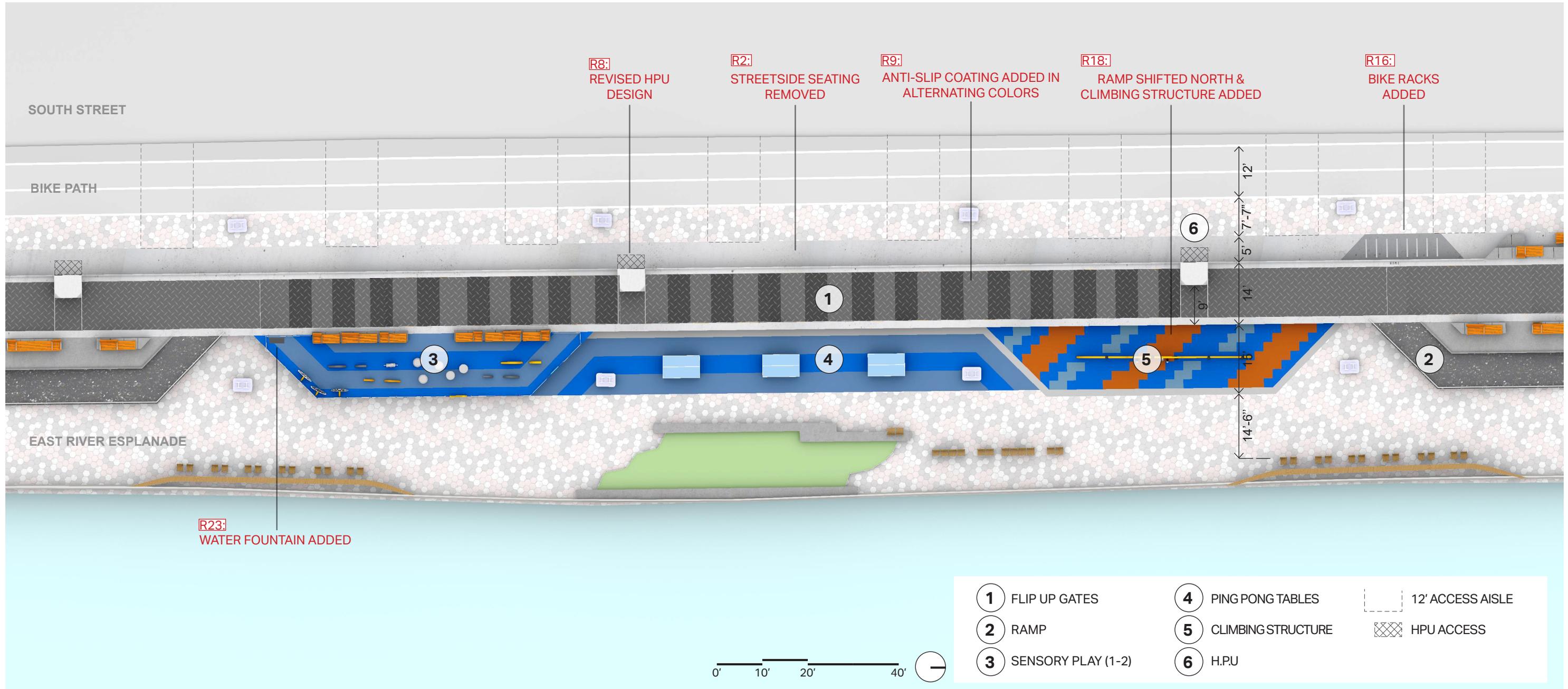
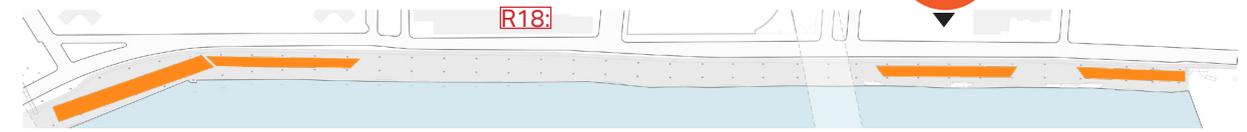


CLIMBING STRUCTURE

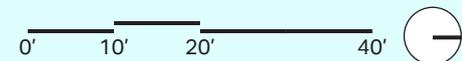
PING PONG TABLES

2-5 YEARS OLD PLAYGROUND

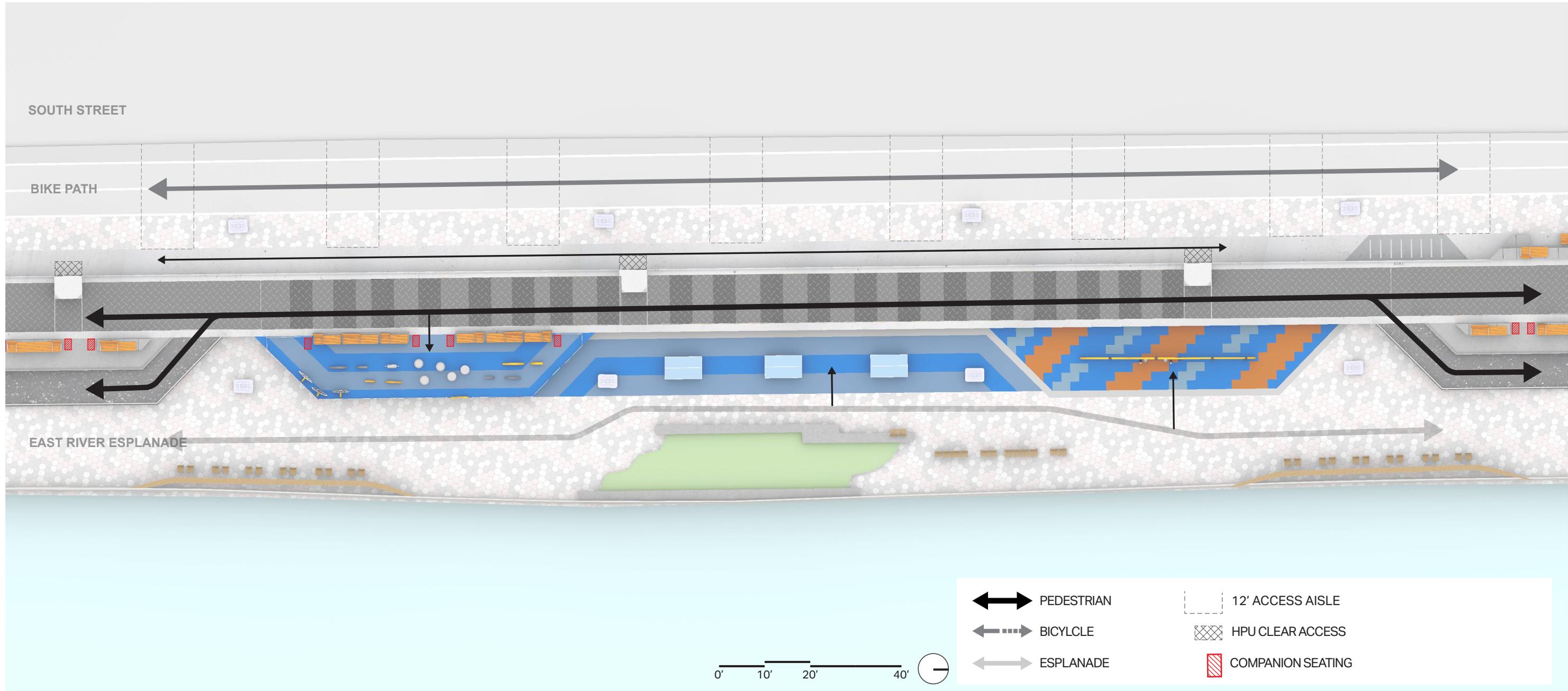
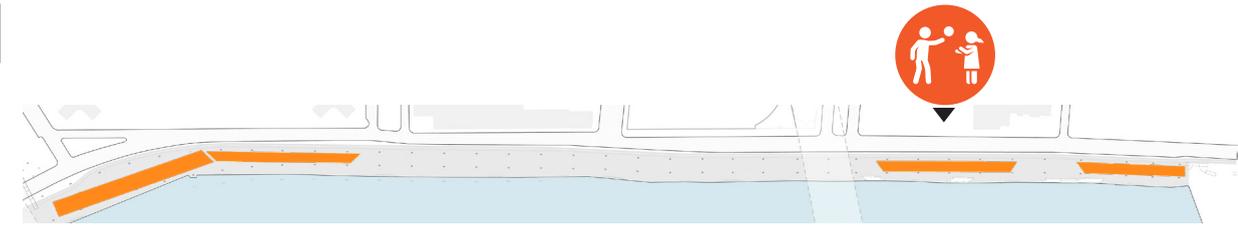
NORTH ACTIVE | PLAY & CLIMB PLAN



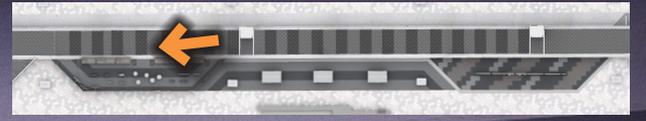
- ① FLIP UP GATES
- ② RAMP
- ③ SENSORY PLAY (1-2)
- ④ PING PONG TABLES
- ⑤ CLIMBING STRUCTURE
- ⑥ H.P.U
- 12' ACCESS AISLE
- HPU ACCESS



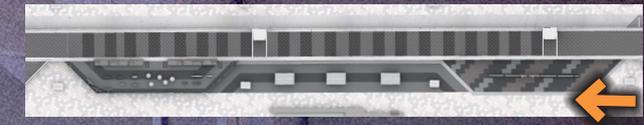
NORTH ACTIVE | PLAY & CLIMB CIRCULATION



NORTH ACTIVE | PLAY



NORTH ACTIVE | CLIMBING AND SPORTS

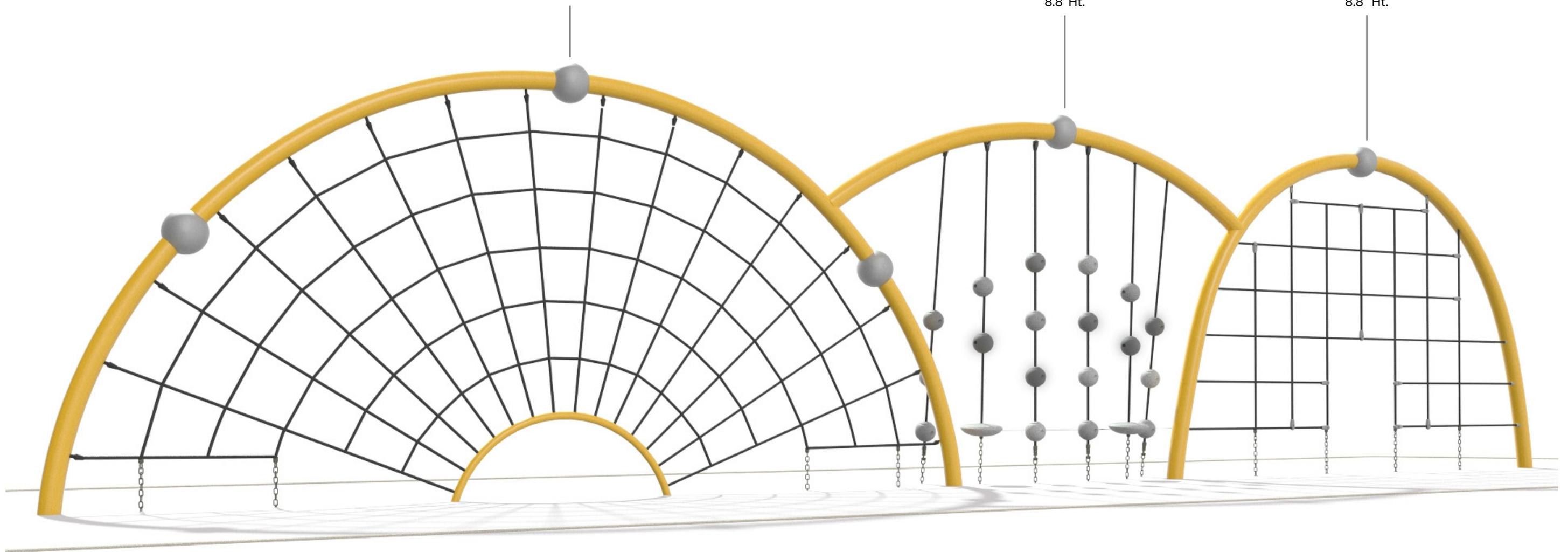


NORTH ACTIVE | CLIMBING STRUCTURE

ARCH 1
RADIAL CLIMBING CABLES
ADVANCED
8.8' Ht.

ARCH 2
VERTICAL CLIMBING CABLES
INTERMEDIATE
8.8' Ht.

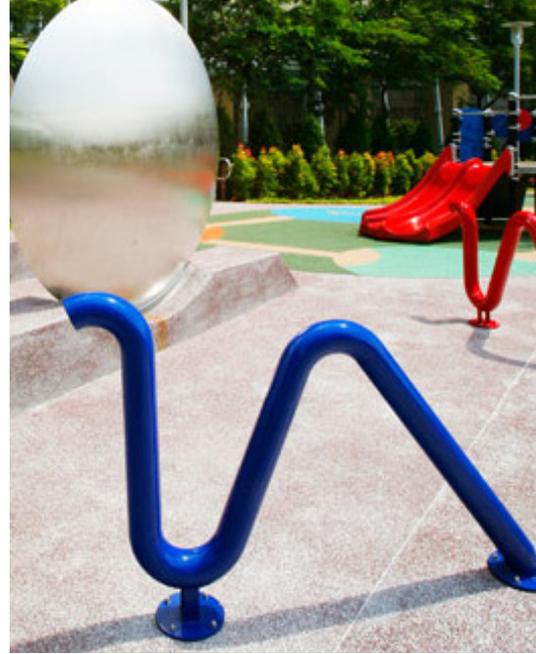
ARCH 3
ORTHOGONAL CABLE GRID
BEGINNER
8.8' Ht.



NORTH ACTIVE | PLAY EQUIPMENT



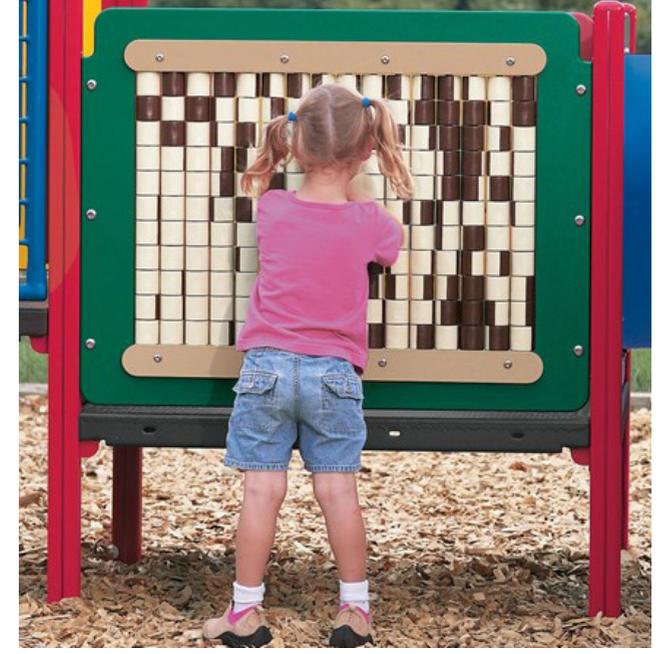
Landscape Structures: Telephone Tube



Sonic Architecture - Telephone Tube



Goric - Rolling Bell & Sound Column



Landscape Structures: Learning Panel



Sonic Architecture - Kids Drums



Goric - Effect Disc B



Landscape Structures: Learning Panel



NORTH ACTIVE | FITNESS



1 FITNESS AREA SURFACING

MITCHELL FALL
SAFETY SURFACE TILES

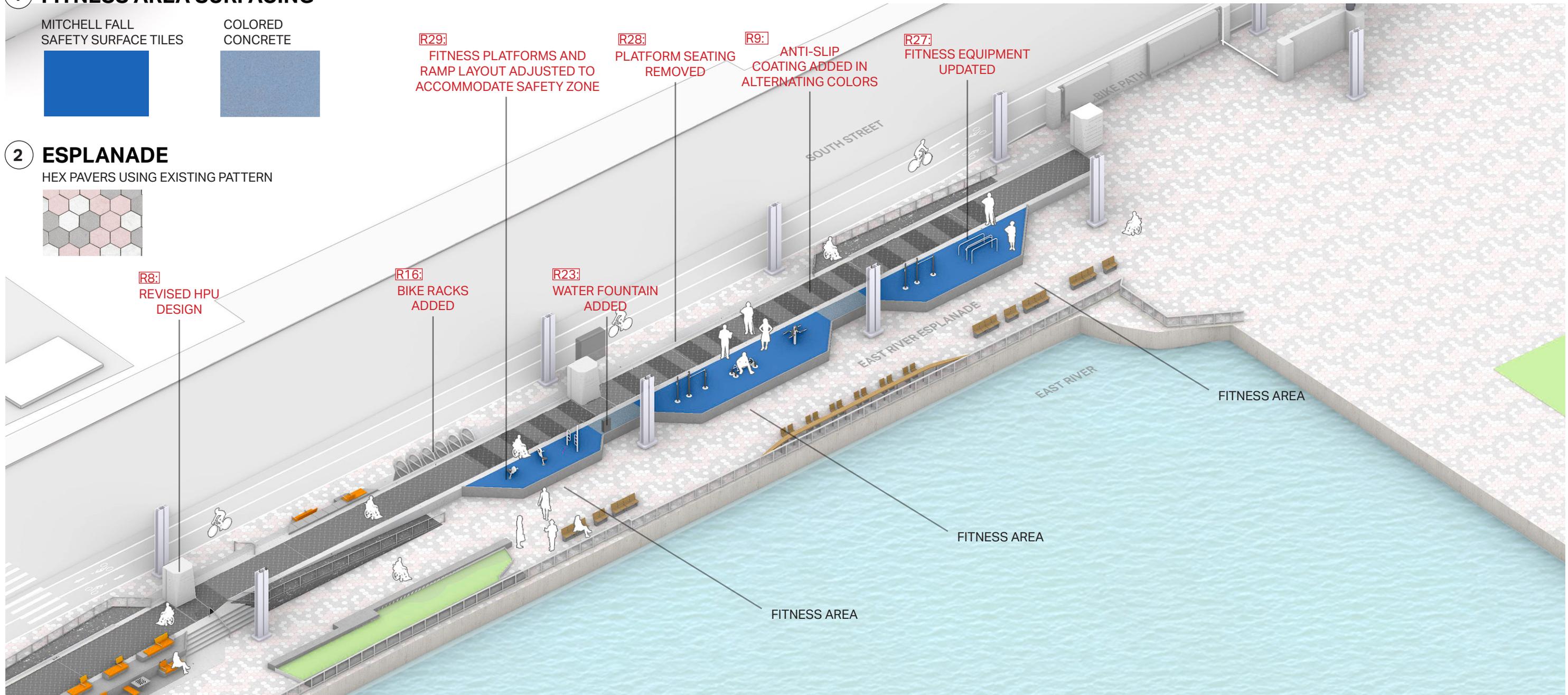


COLORED
CONCRETE

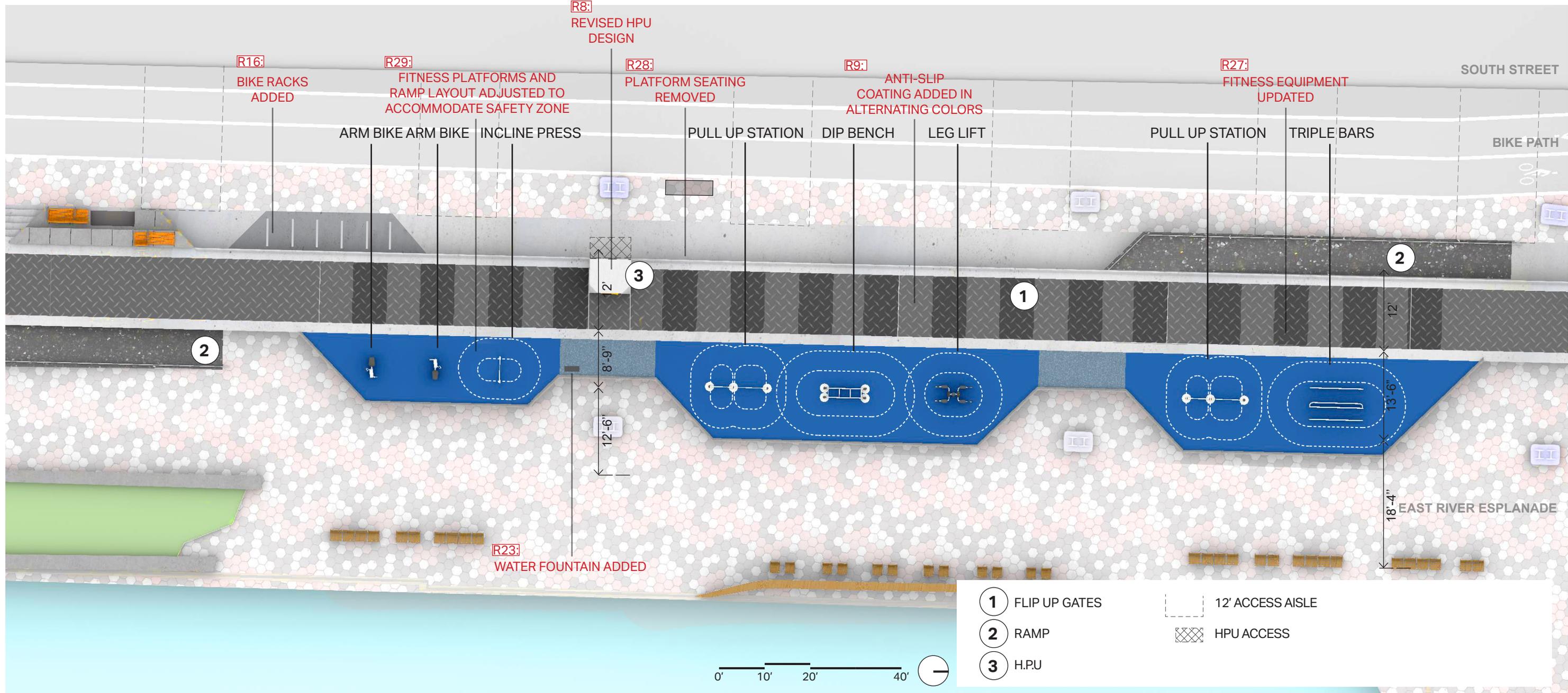
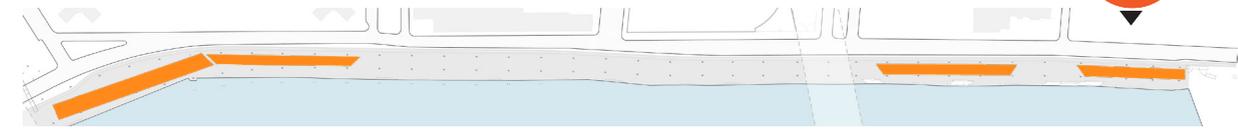


2 ESPLANADE

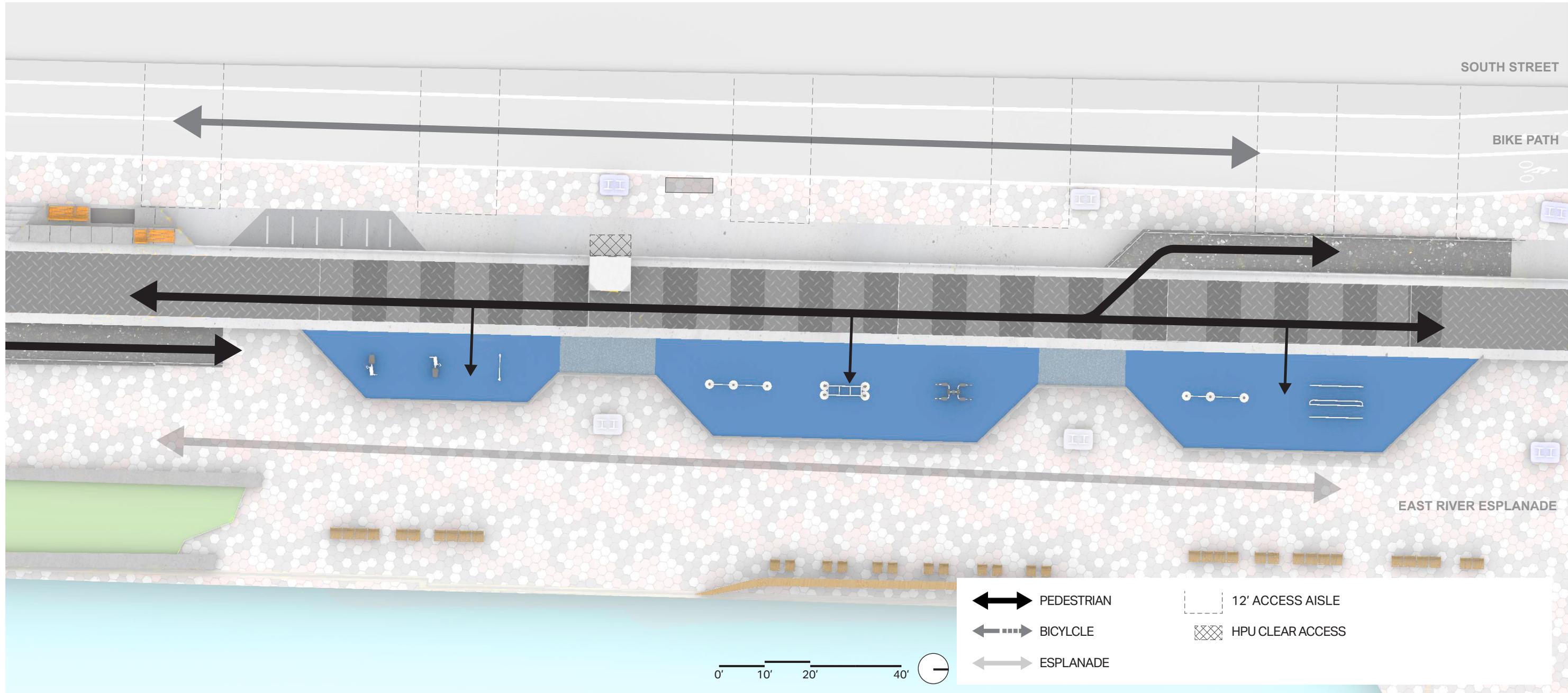
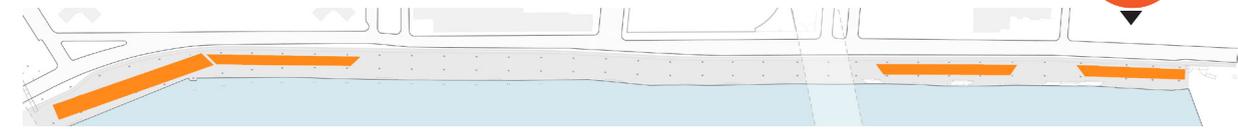
HEX PAVERS USING EXISTING PATTERN



NORTH ACTIVE | FITNESS PLAN



NORTH ACTIVE | FITNESS CIRCULATION



NORTH FITNESS



NORTH ACTIVE | FITNESS EQUIPMENT



a. Arm Bike - ADA



b. Triple Bars - ADA



c. Push Up & Leg Lift Station - ADA



d. Incline Press - ADA



f. Dip Bench



g. Pull Up Bars, 8' & 6'6" - ADA



h. Pull Up Bars - 5'6" & 7'6" - ADA

MATERIALS AND FURNISHINGS

EDC EAST RIVER ESPLANADE SITE FURNITURE PALETTE



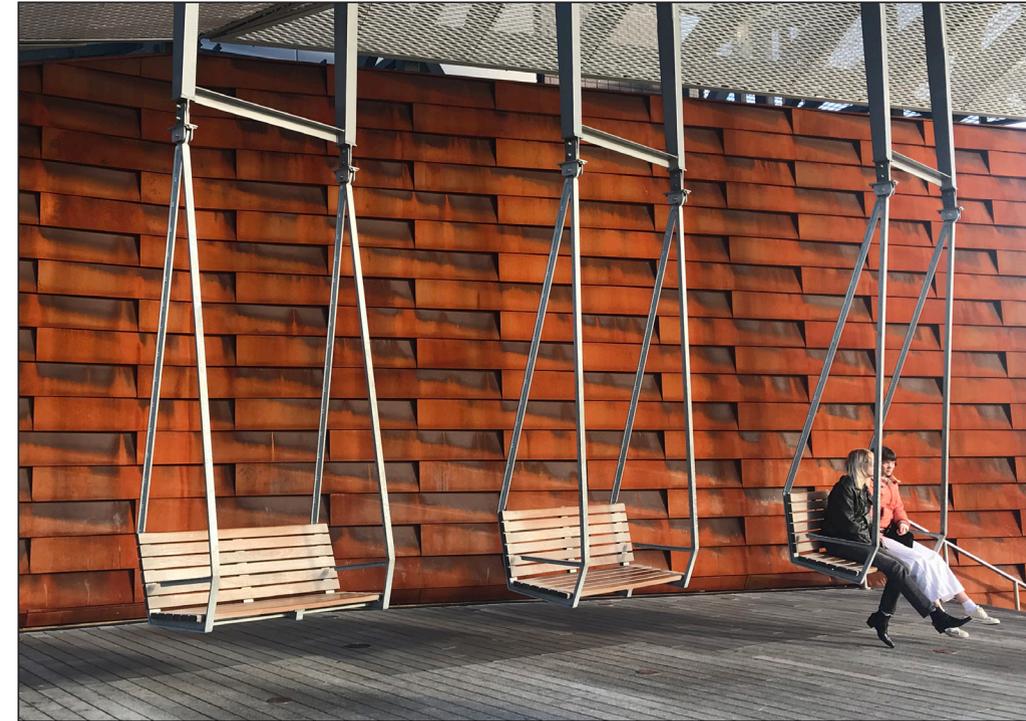
Existing Esplanade Site furniture



SITE FURNITURE | TYPES

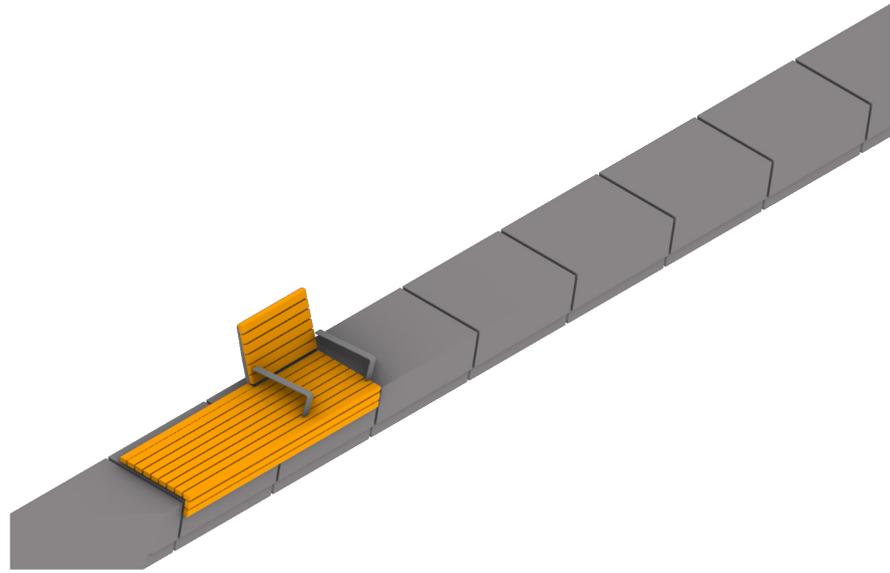


TABLES & CHAIRS

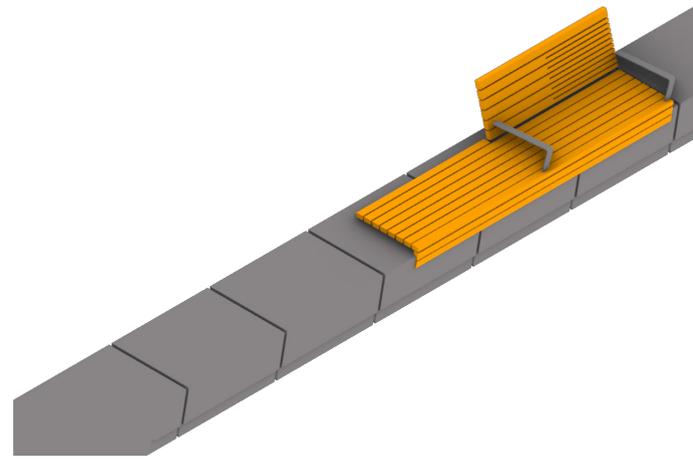


GLIDERS

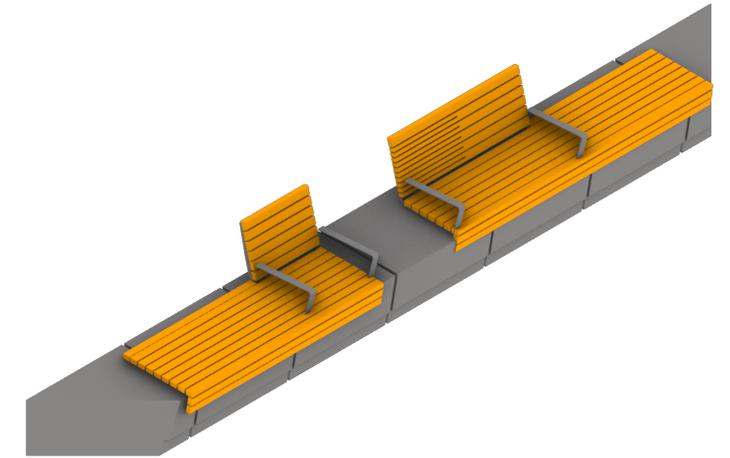
SITE FURNITURE | PLATFORM BENCH TYPES



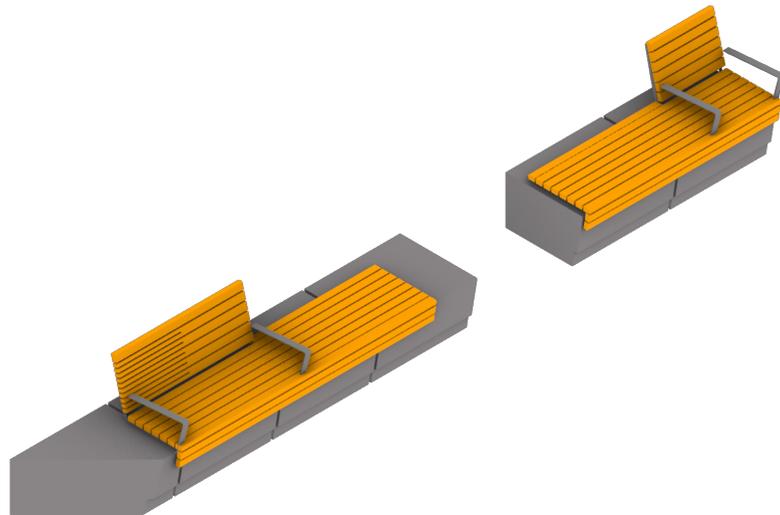
BENCH MODULE 1



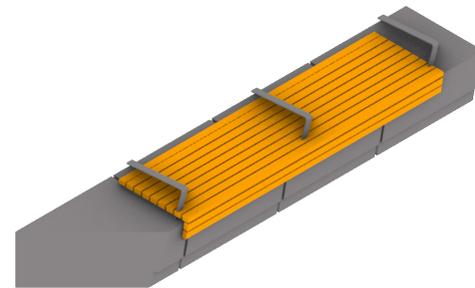
BENCH MODULE 2



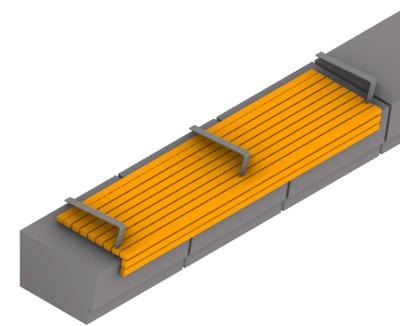
BENCH MODULE 3



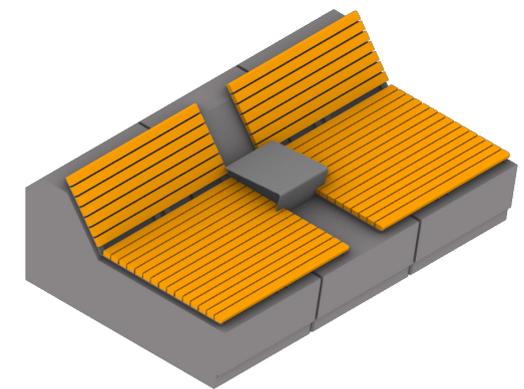
BENCH MODULE 4



BENCH MODULE 5



CHAISE MODULE



FENCE & ADA HANDRAIL



- 4' -0" Ht. Orsogrill Fence
- 12' -5" Ht. Louvered Screen - Orsogrill Talia Ventus
- 12'-0" Ht. Welded Wire Basketball Fence
- ADA Handrail



4' -0" Ht. Orsogrill Fence,
Galvanized Finish

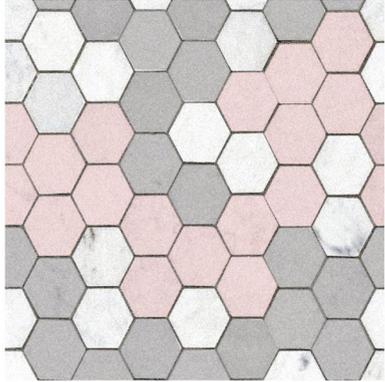


12' -5" Ht. Louvered Screen -
Orsogrill Talia Ventus



McNichols 12' Ht. Welded Wire Basketball
Fence, Powder Coated Silver,
6' x 8' Panels TYP.

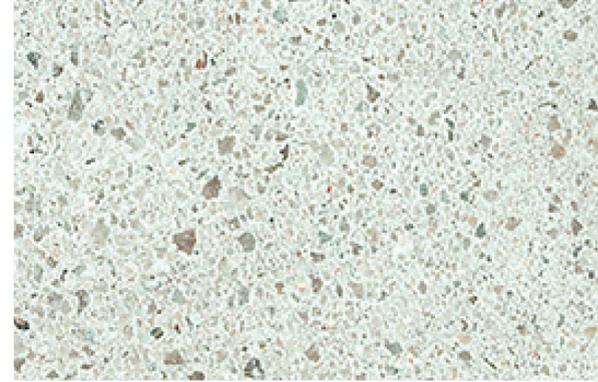
PAVEMENT



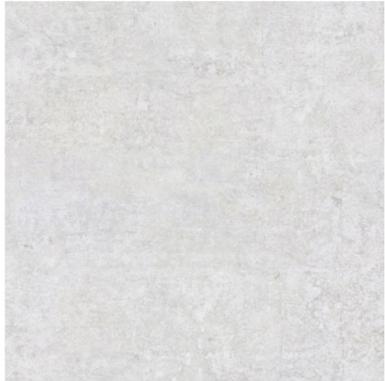
Hanover Hexagonal Paver



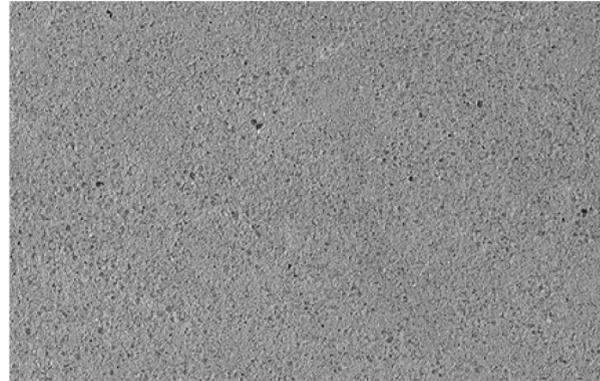
C.I.P Concrete
Pockets ground & Circulation area



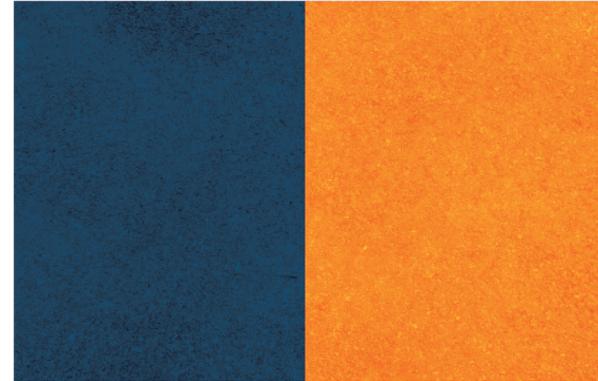
Precast Steps



C.I.P Concrete
Pockets ground & Circulation area



C.I.P Concrete
Pockets ground & Circulation area



SportMaster Sport Surfaces
Color SealCoat Asphalt



C.I.P Concrete
Pockets ground & Circulation area



Silicon Carbide
Ramp finish



Safety Tiles



Aluminum Tread Plate
Flip-Up Gate Finish

FURNISHINGS



Parks Standard Ping Pong Table



NYCDOT City Bike Rack



Trash Receptacle
Maglin Model:
CMLWR9074032HST
color gray w/ black lid



BigBelly
Recycling Receptacle



Basketball Back-stop and Hoop



Standard Bottle Filler W. Hi-LO Drinking Fountains
Elkay Model LK4430BF 1 UNYC
Color Gray/ Silver



NYC Parks Standard Bench

FIXED STRUCTURE



SOCIAL
POCKETS



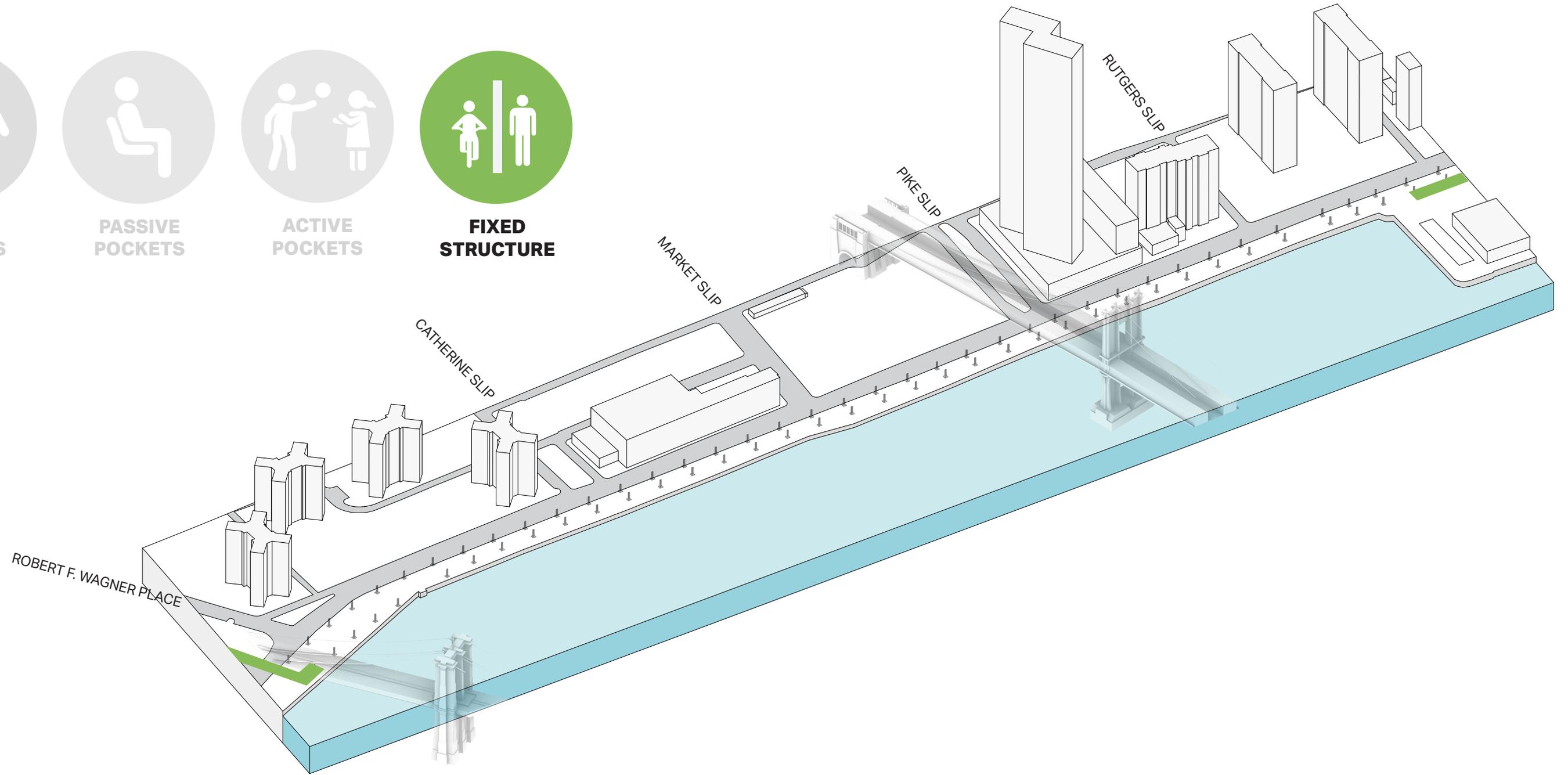
PASSIVE
POCKETS



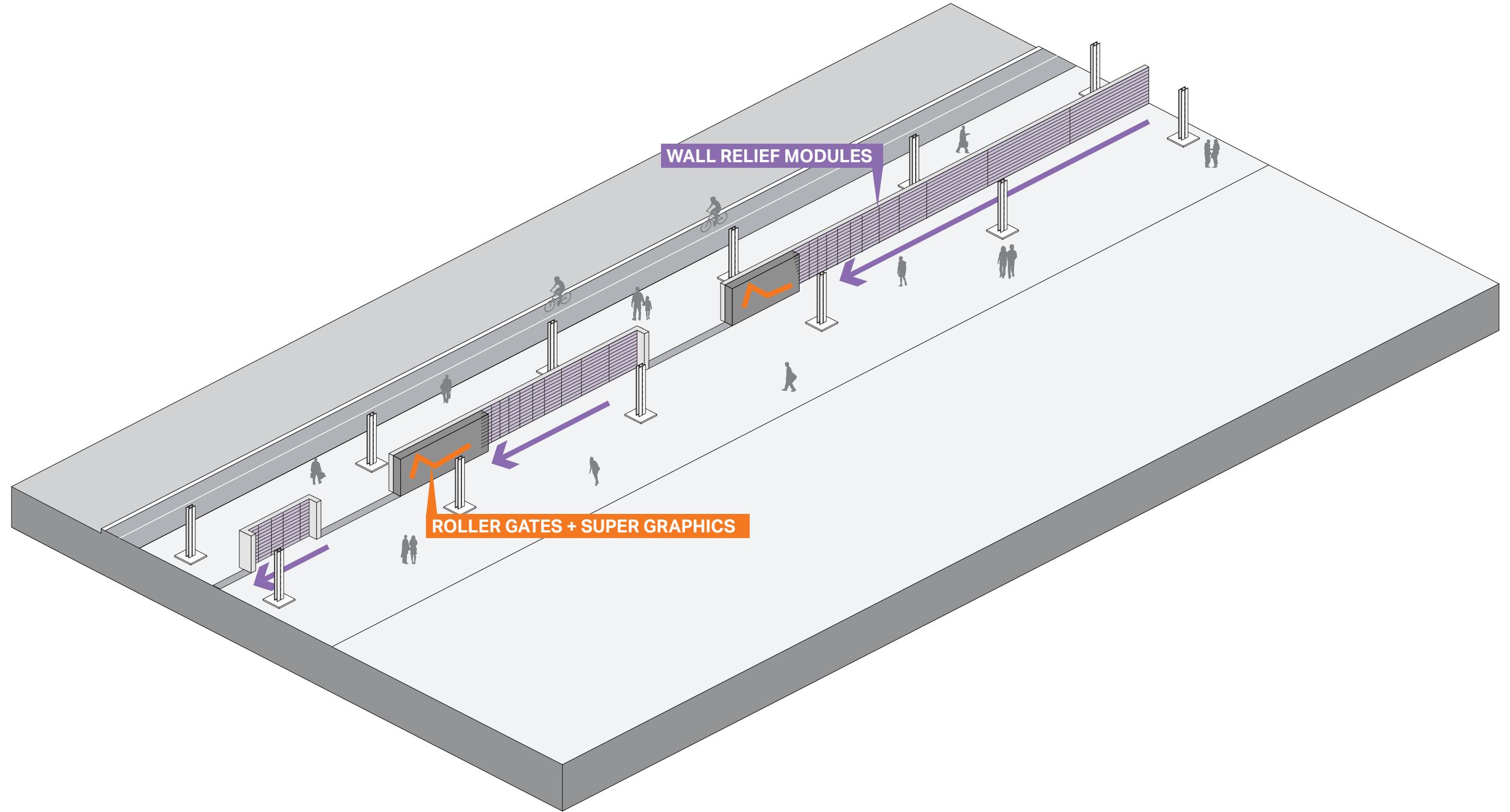
ACTIVE
POCKETS



FIXED
STRUCTURE

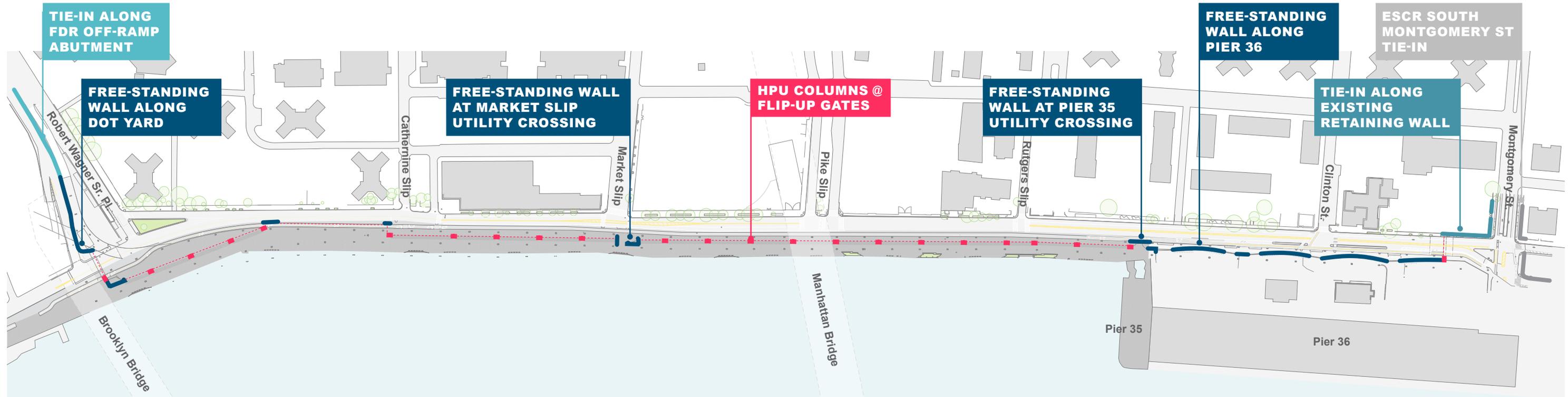


FIXED STRUCTURE | DESIGN CONCEPT

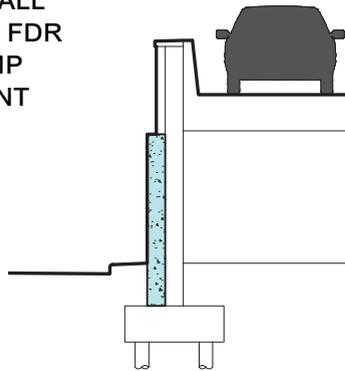


FLOOD PROTECTION

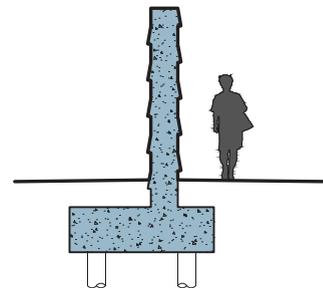
Exposed Floodwall Overview



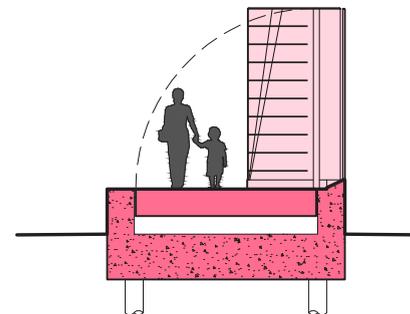
FLOODWALL AGAINST FDR OFF-RAMP ABUTMENT



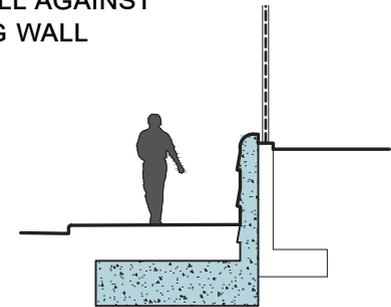
FREE-STANDING FLOODWALL



HPU COLUMNS @ FLIP-UP GATES



FLOODWALL AGAINST RETAINING WALL

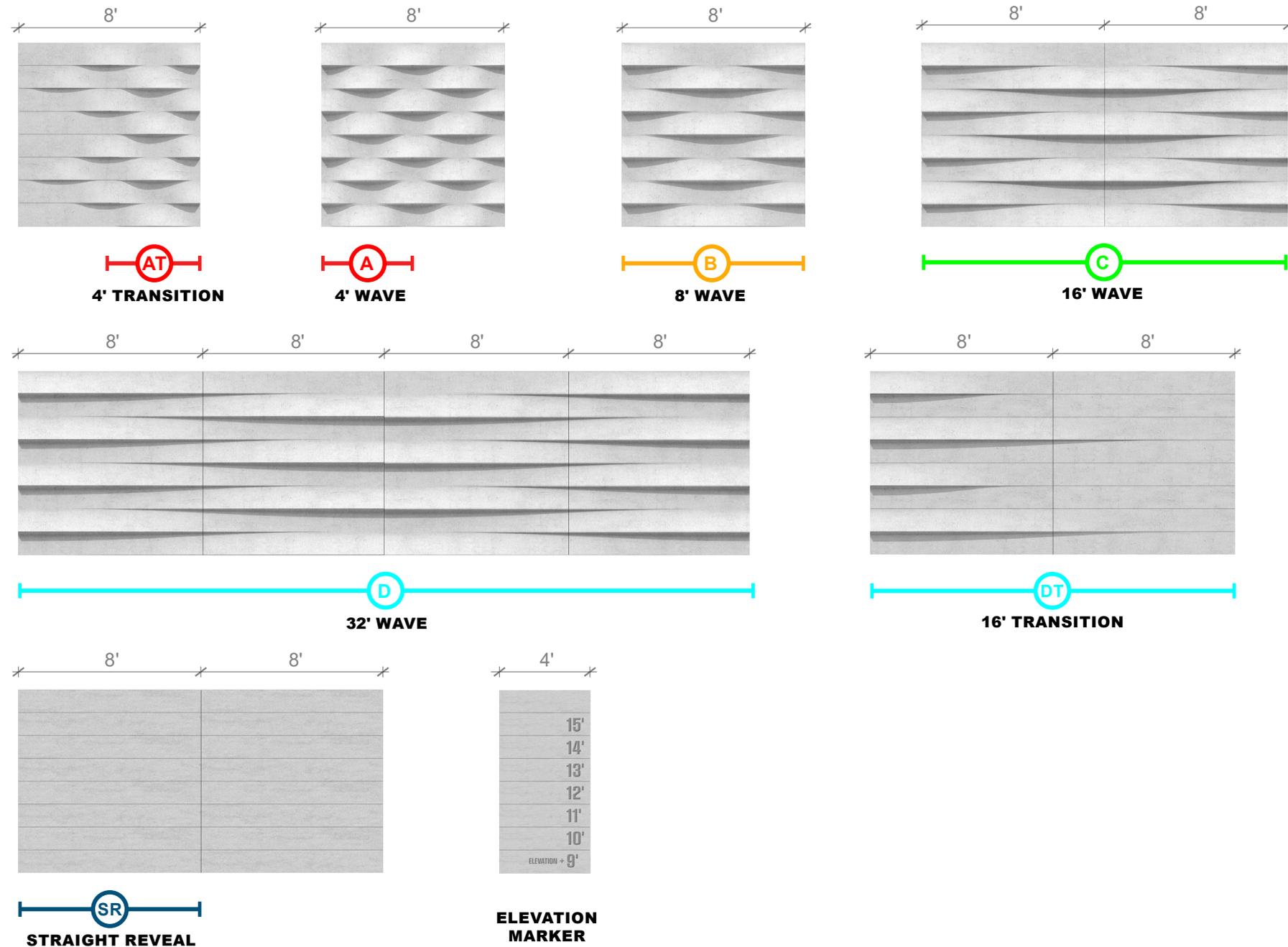


FLOOD PROTECTION

Wall Relief Module Toolkit

The northern portion of BMCR's Flood Protection will continue the same finish design strategy as established for ESCR, providing a continuity across compartments.

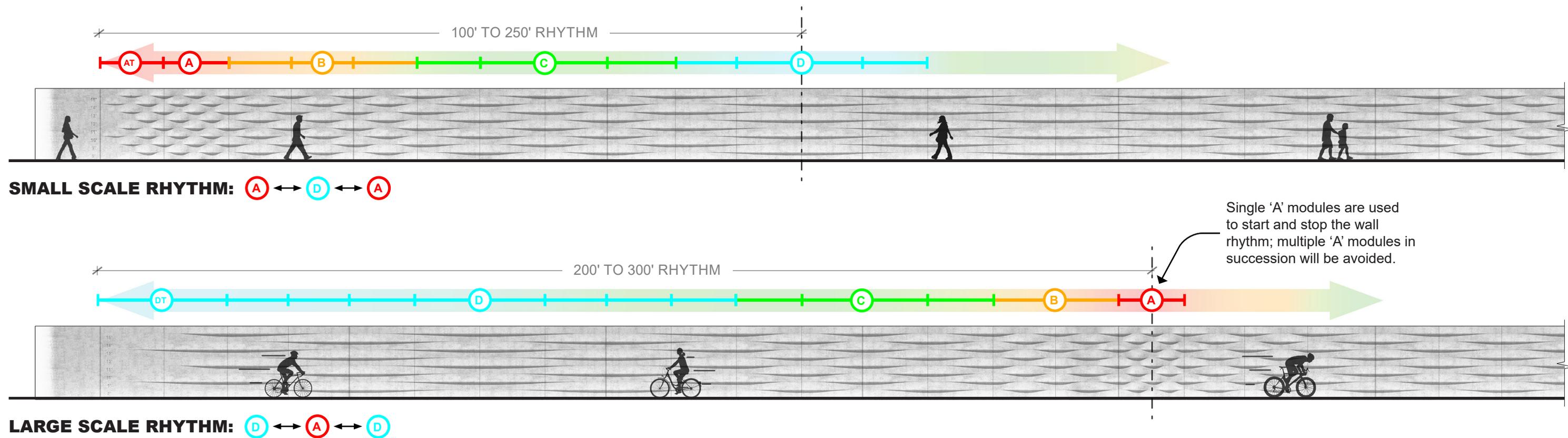
As the flood protection approaches Pier 35 and the Esplanade, the finish strategy will transition to a simple 'Straight Reveal' relief, which will be used on exposed portions of flood protection throughout the southern project area. The simpler relief pattern is intended to complement the unique qualities of the BMCR design while also working with the smaller lengths of above grade walls and HPU Columns.



FLOOD PROTECTION

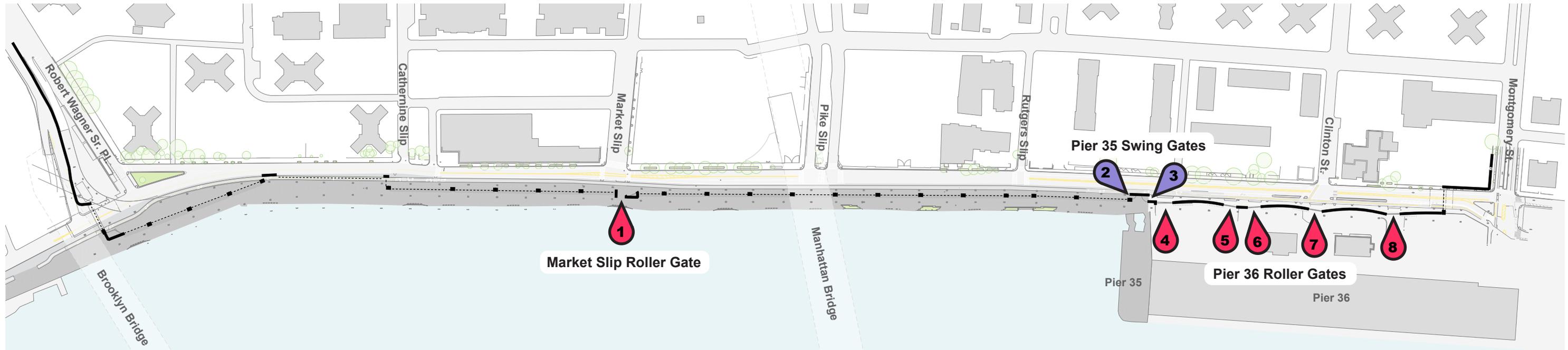
Wall Rhythm Toolkit

The individual panels from the Wall Relief Toolkit are arrayed in a dynamic fashion that accelerates and decelerates the pattern along exposed portions of wall. The specific layouts of panels reinforce user experience by reacting to the speed of viewers and wall geometry.



FLOOD PROTECTION

Above Grade Gates



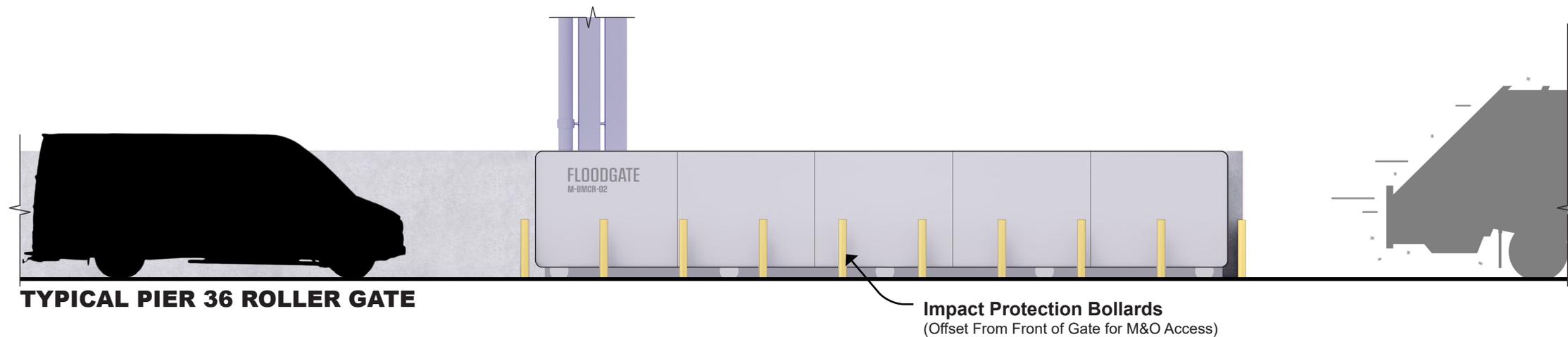
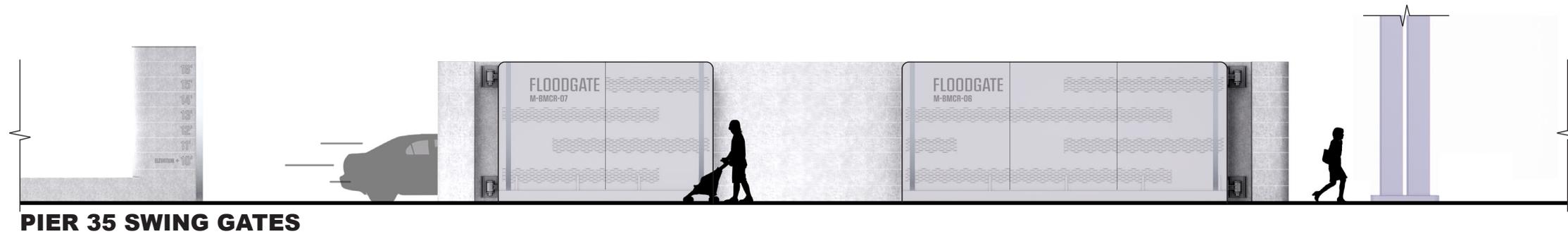
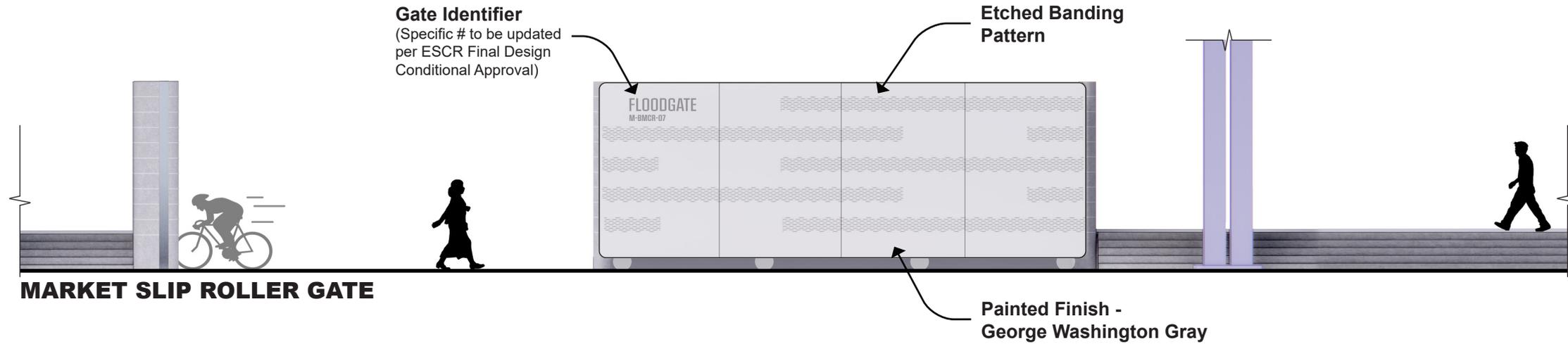
-  SWING GATE (2)
-  ROLLER GATE (6)

-  EXPOSED FLOODWALL & HPU COLUMNS
-  LINE OF FLIP-UP GATES

FLOOD PROTECTION

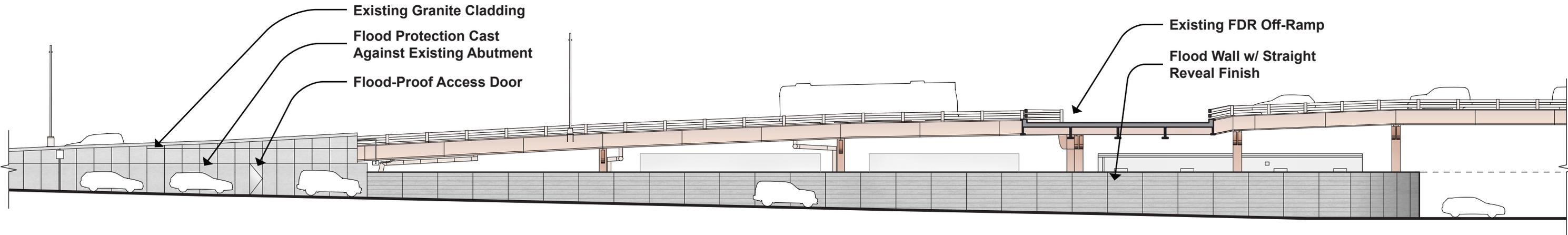
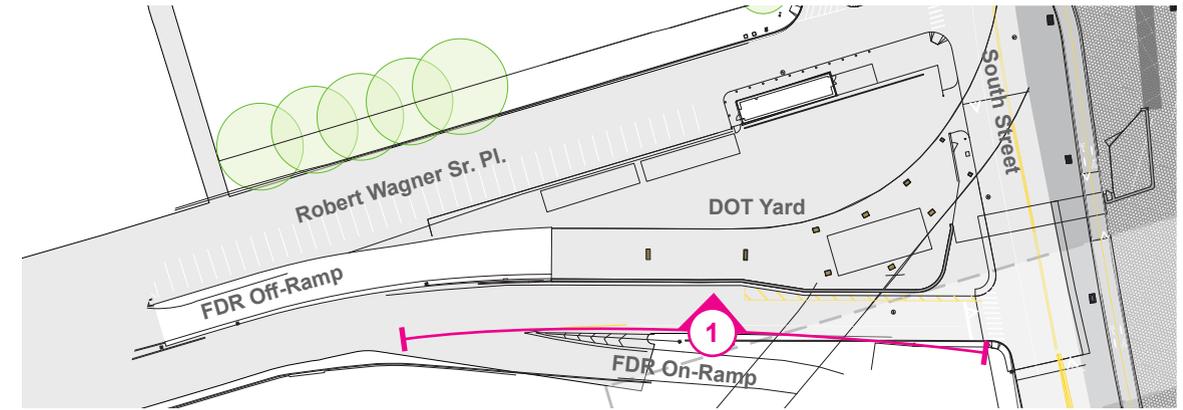
Above Grade Gates

BMCR's eight roller gates continue the same design strategy as established for ESCR, including: Softened geometry, clean end plates, an etched relief pattern complementing the floodwall finish, simple monochromatic color based on DOT standards, and integral signage/identifier. However, given the more intermittent locations of these gates, super-graphic numbering will not be used.



FLOOD PROTECTION WALKTHROUGH

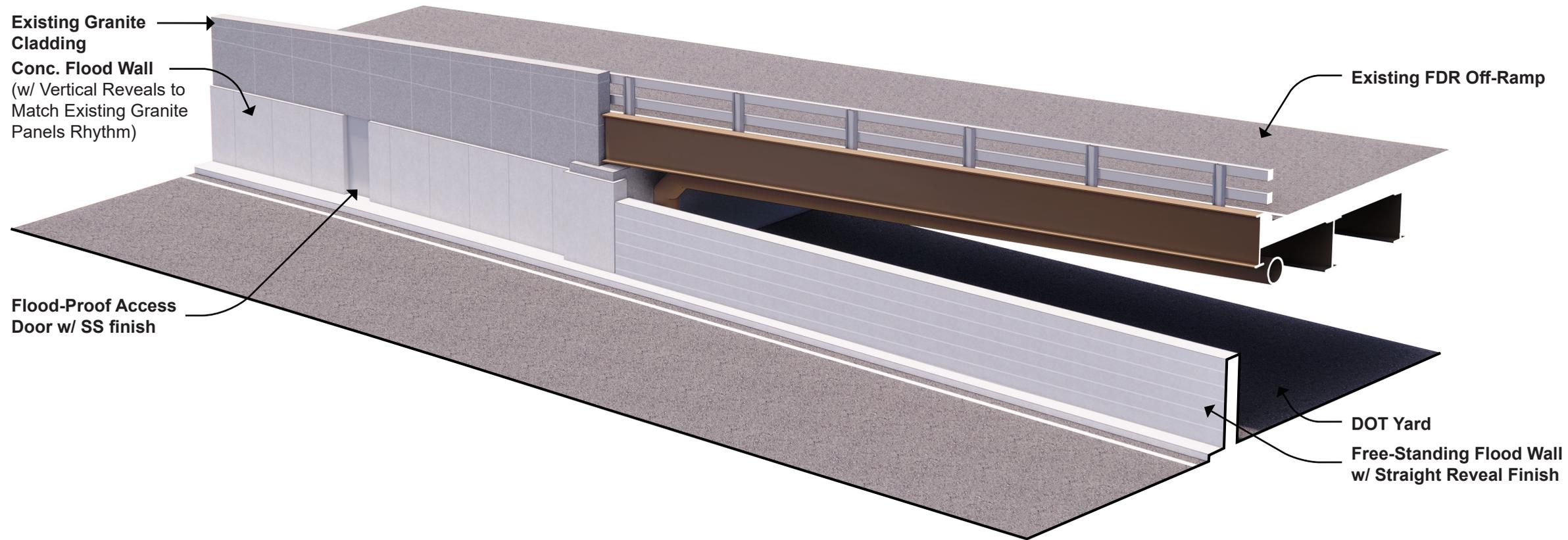
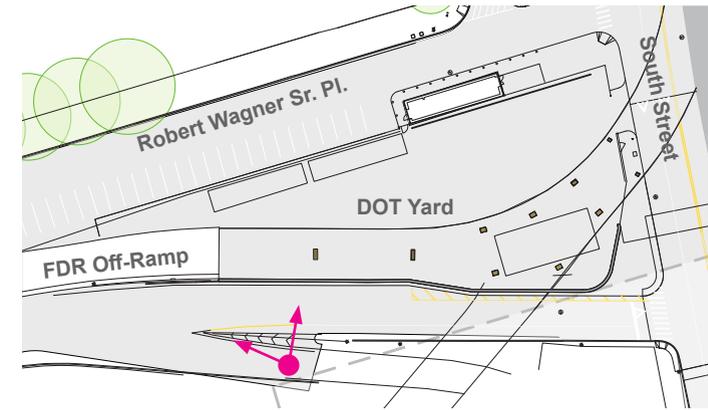
Brooklyn Bridge Tie-In



1. EXPOSED WALL ELEVATION - FLOOD SIDE ALONG ROBERT WAGNER SR. PL

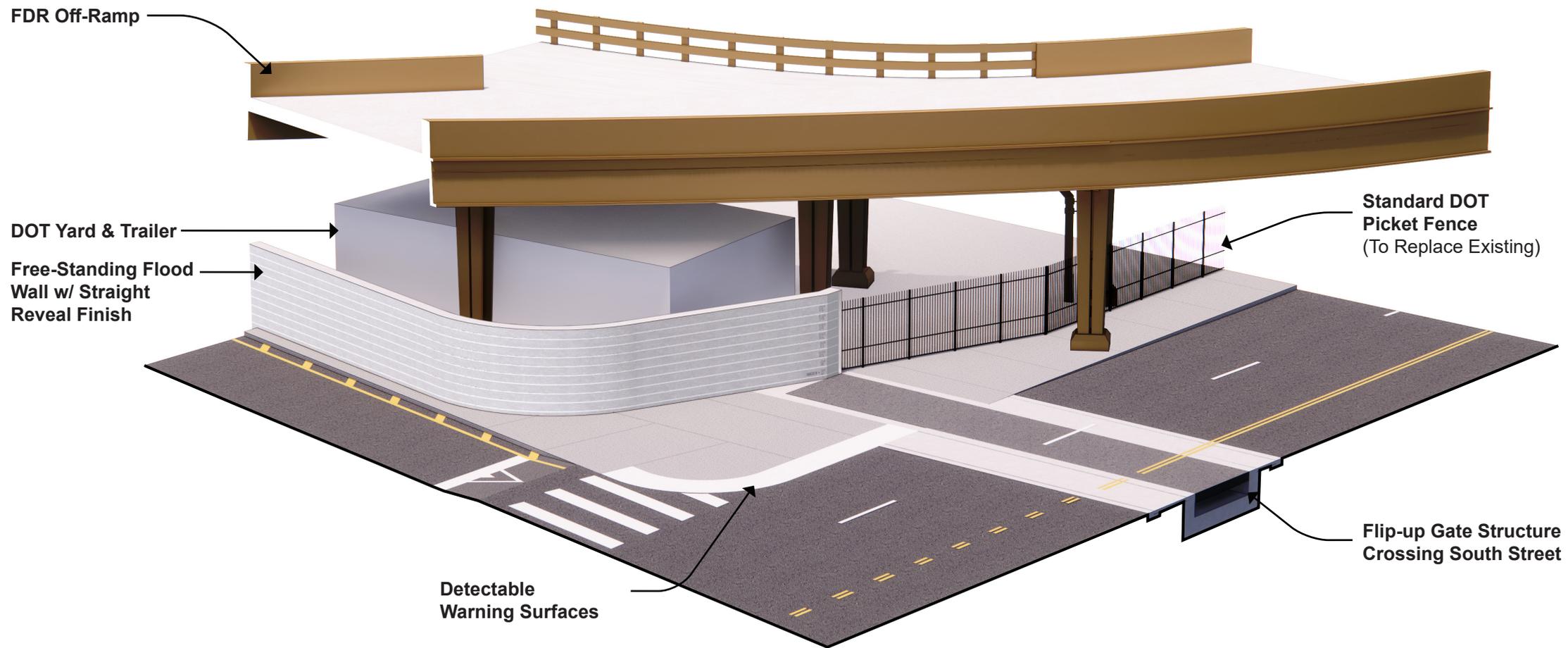
FLOOD PROTECTION WALKTHROUGH

Wall Transition at Abutment



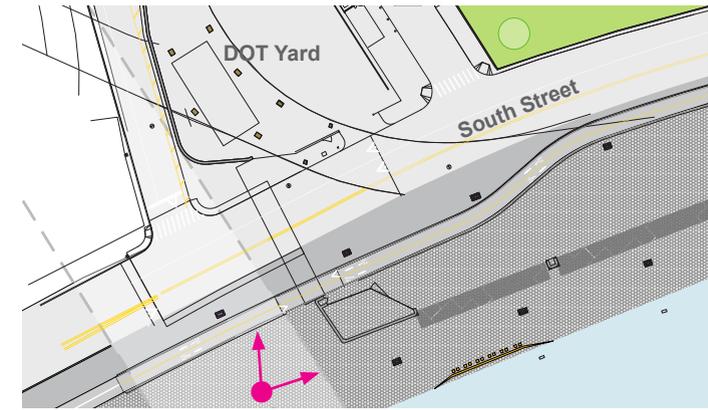
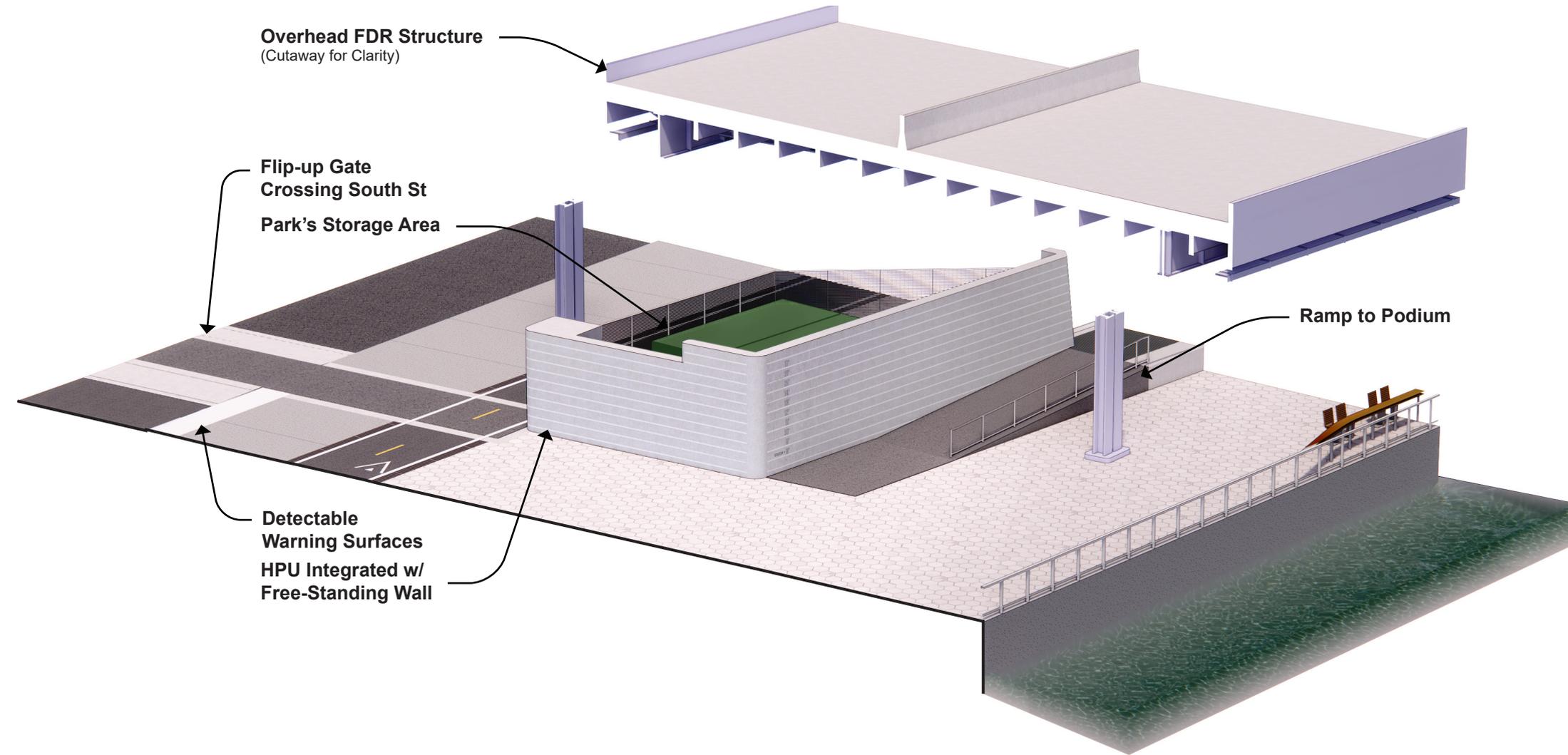
FLOOD PROTECTION WALKTHROUGH

South Street Crossing - Upland Side



FLOOD PROTECTION WALKTHROUGH

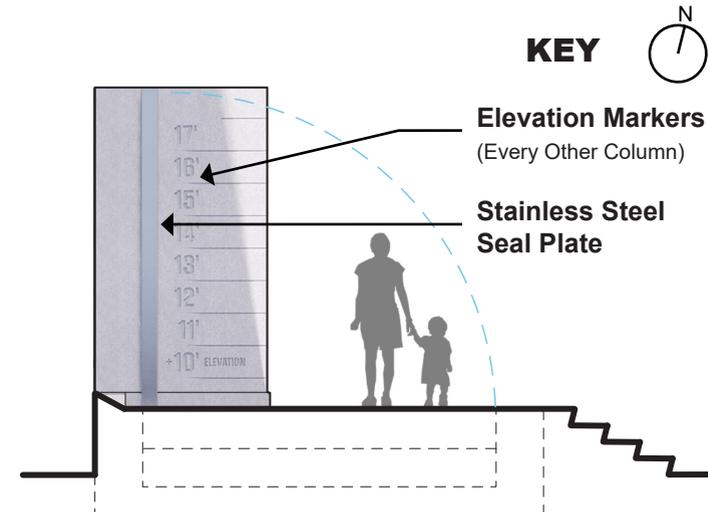
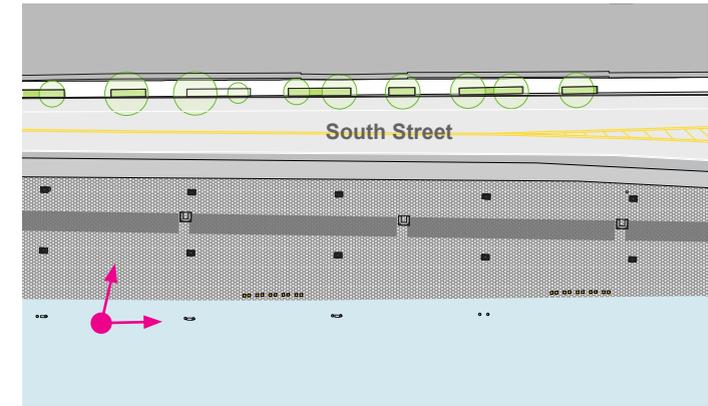
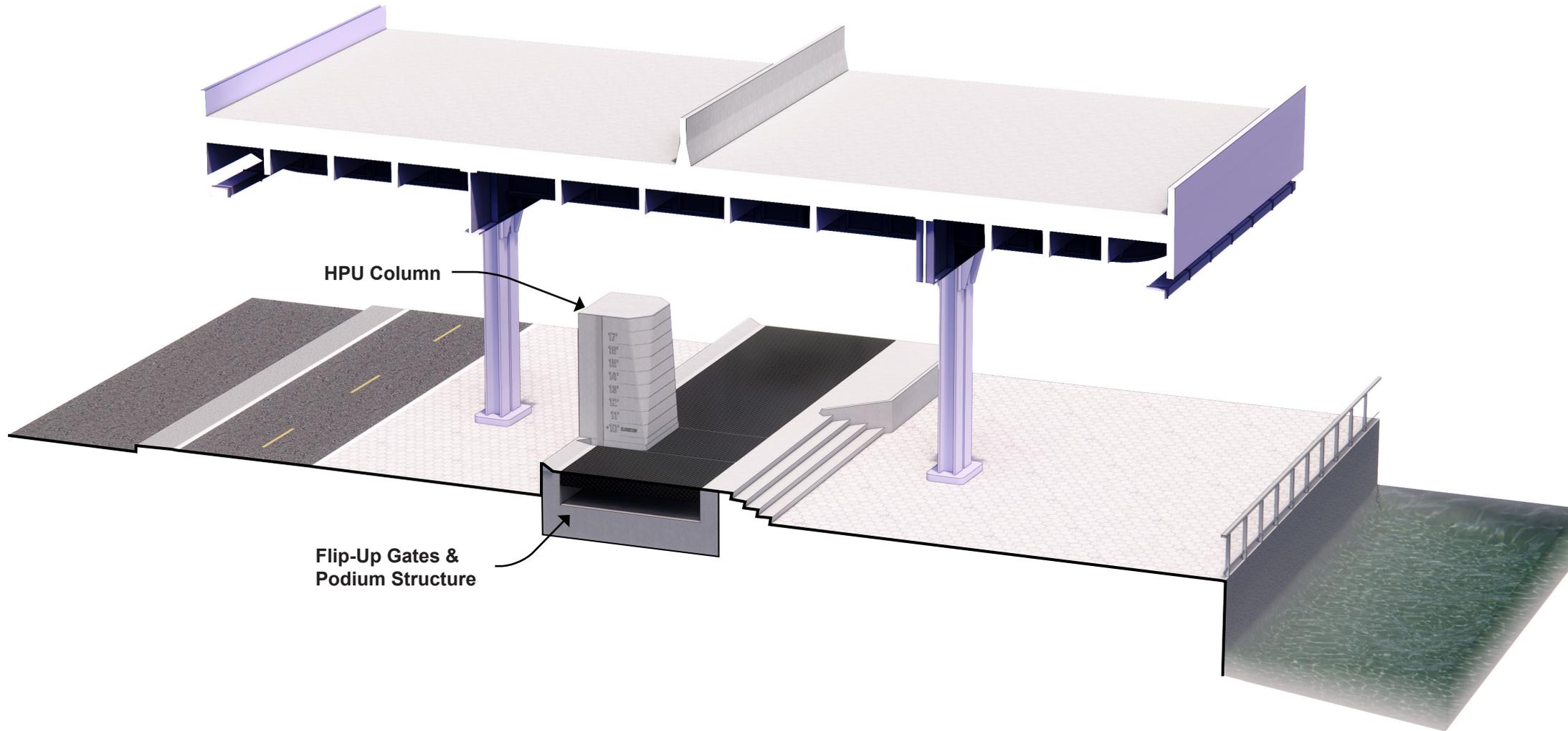
South Street Crossing - Esplanade Side



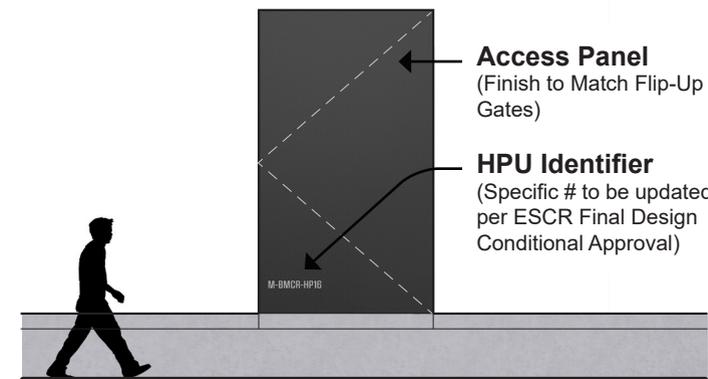
FLOOD PROTECTION WALKTHROUGH

Typical HPU Column

BMCR's Flip-Up Gates are operated by a Hydraulic Power Unit (HPU), which are housed in a series of concrete columns, spaced at roughly 120' intervals along the length of the esplanade. The columns themselves also act as a passive Floodwall and provide a seal between adjacent Flip-Up Gates.



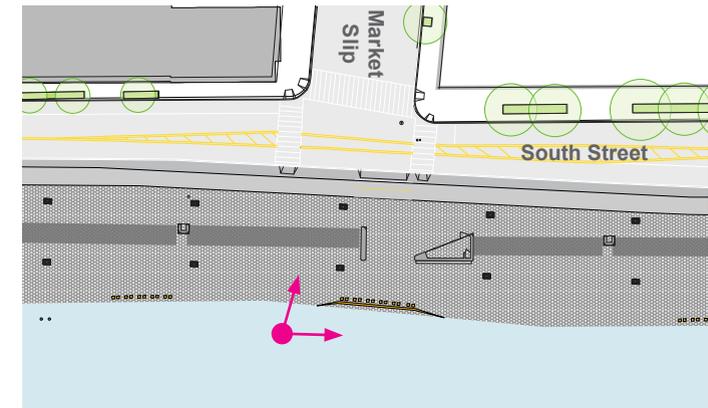
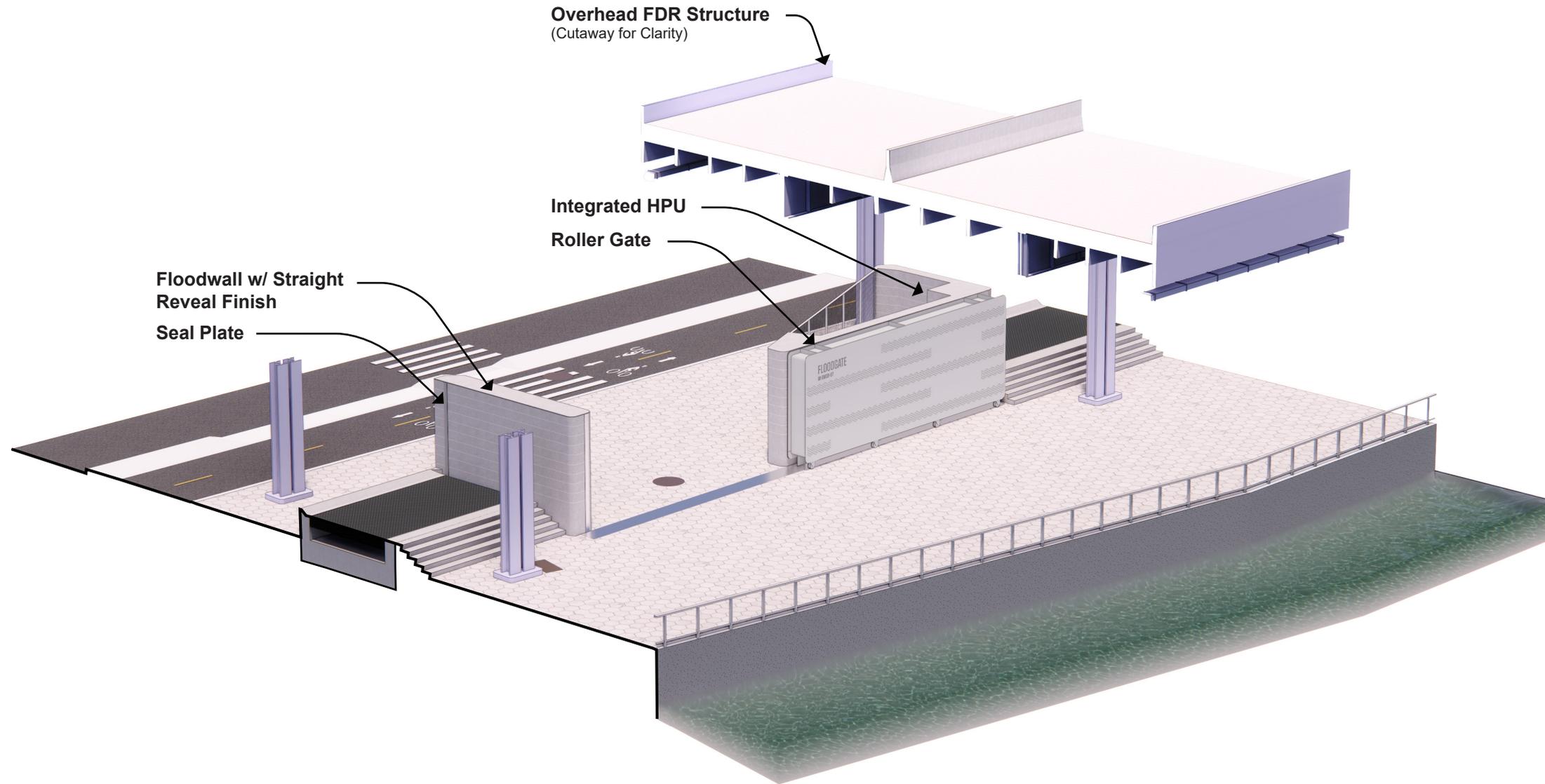
TYPICAL HPU - SIDE ELEV.



TYPICAL HPU - DRY SIDE ELEV.

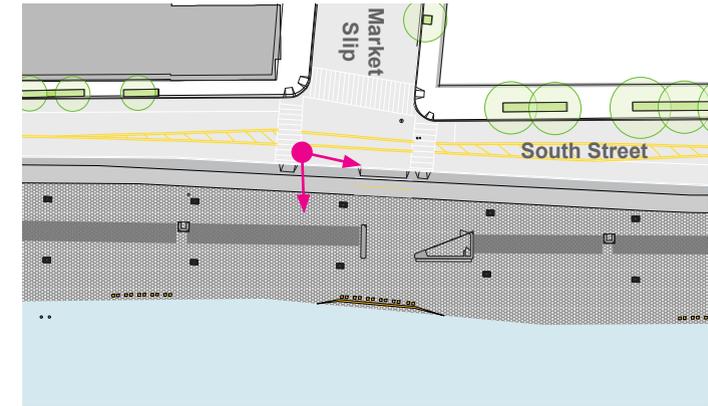
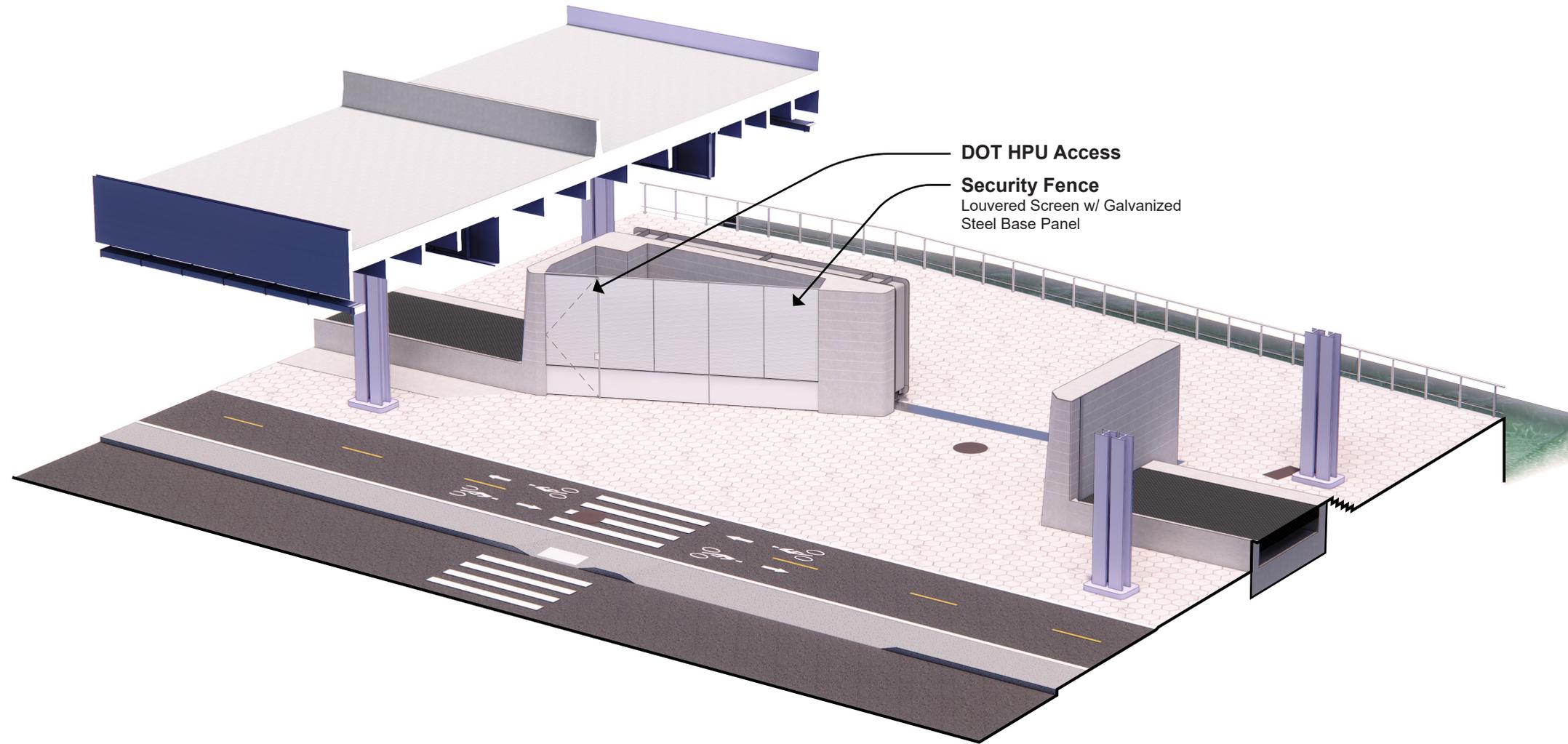
FLOOD PROTECTION WALKTHROUGH

Market Slip Utility Crossing - Flood Side



FLOOD PROTECTION WALKTHROUGH

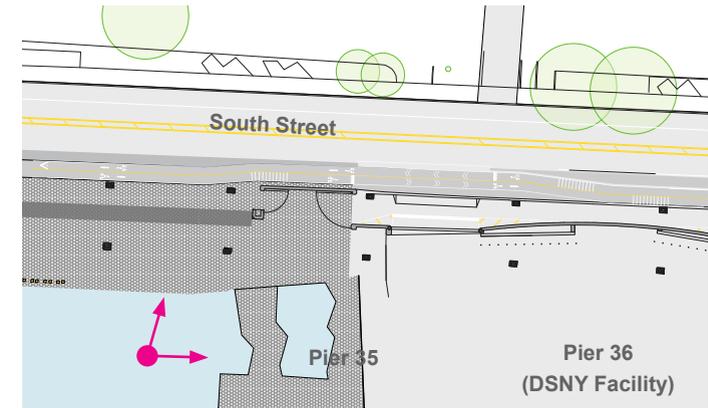
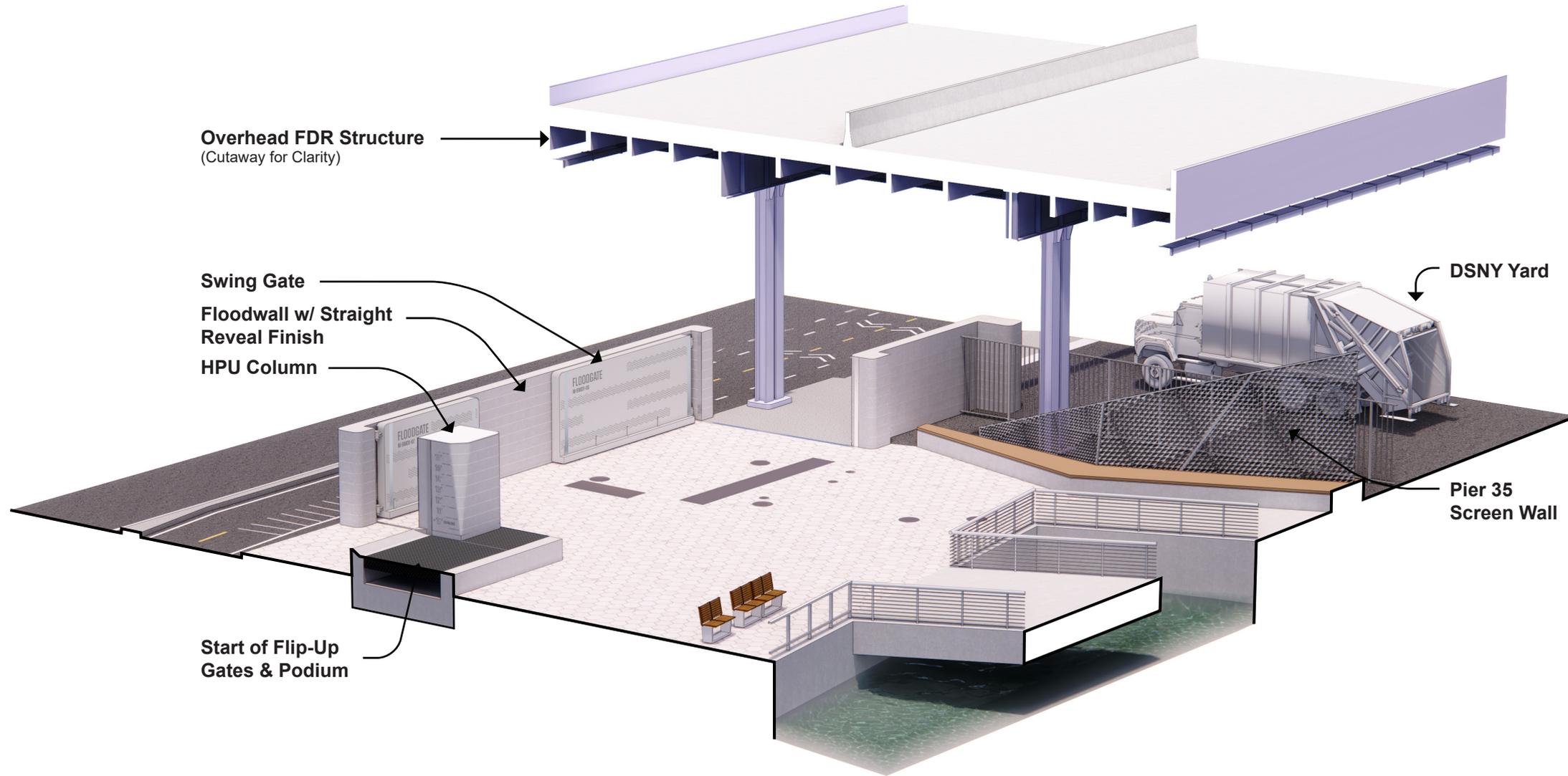
Market Slip Utility Crossing - Protected Side



**LOUVERED SCREEN B.O.D. -
ORSOGRIL TALIA VENTUS**

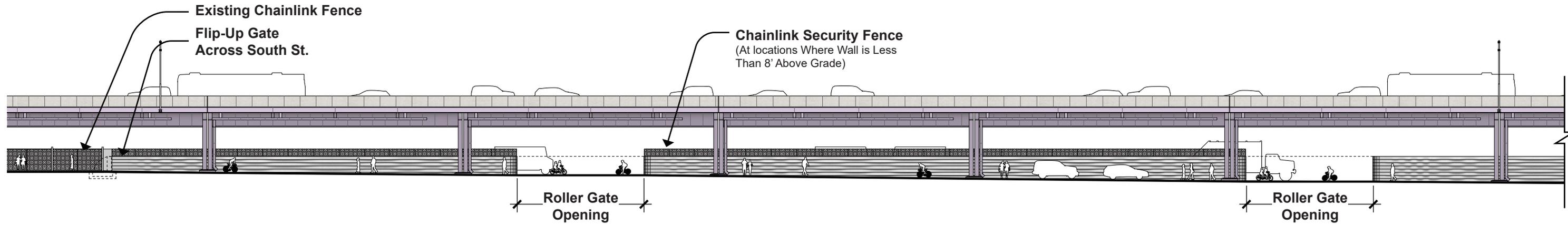
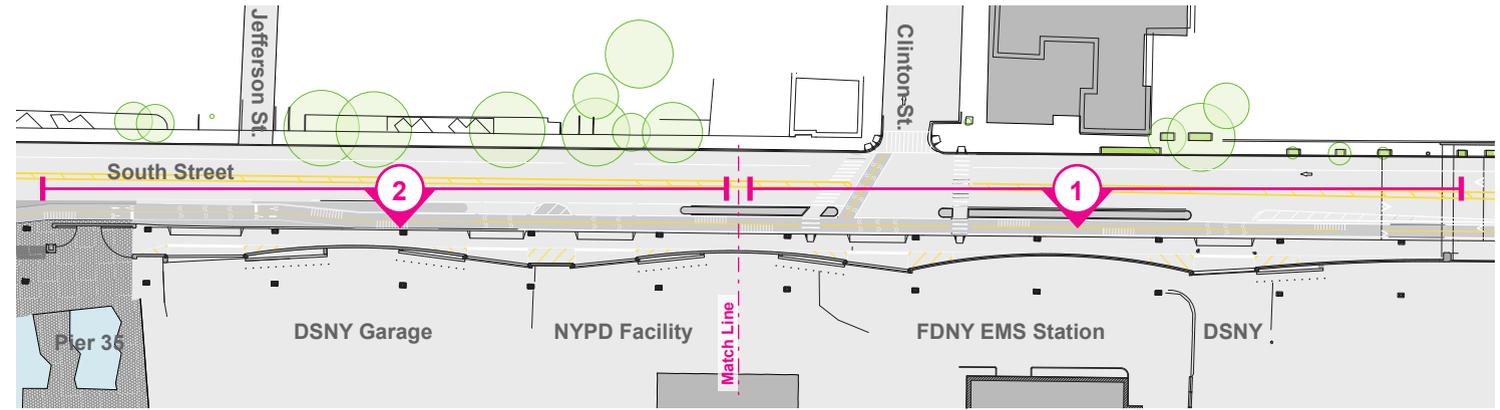
FLOOD PROTECTION WALKTHROUGH

Pier 35 Utility Crossing

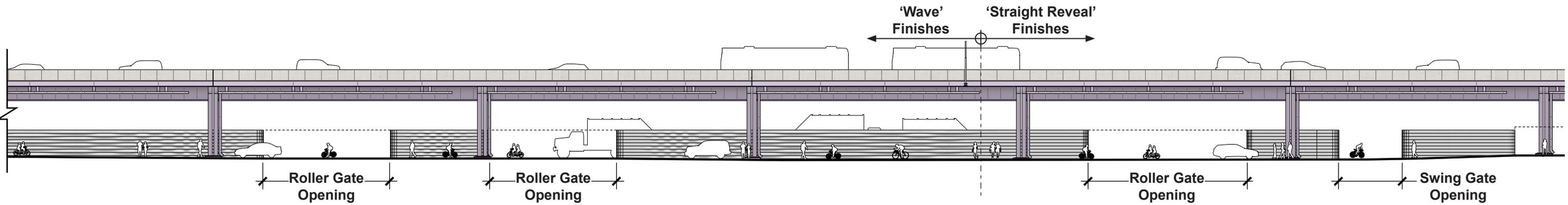


FLOOD PROTECTION WALKTHROUGH

Pier 36 Exposed Wall



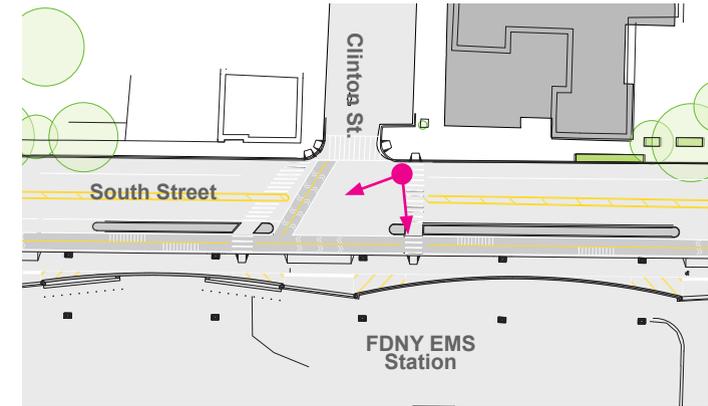
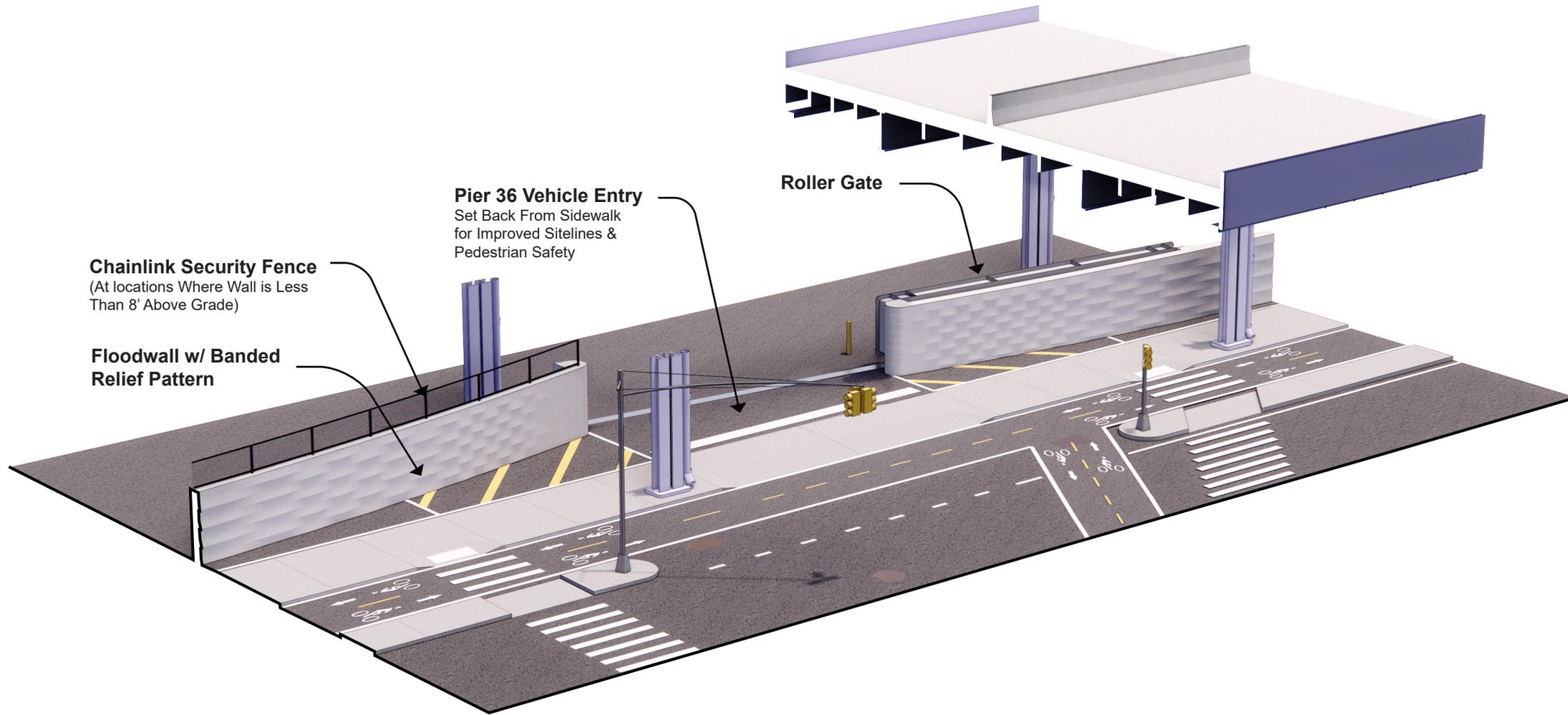
1. EXPOSED WALL ELEVATION - PROTECTED SIDE ALONG SOUTH STREET (EAST SECTION)



2. EXPOSED WALL ELEVATION - PROTECTED SIDE ALONG SOUTH STREET (WEST SECTION)

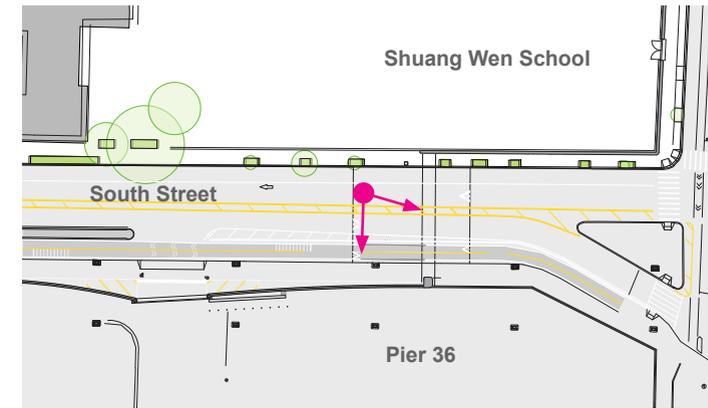
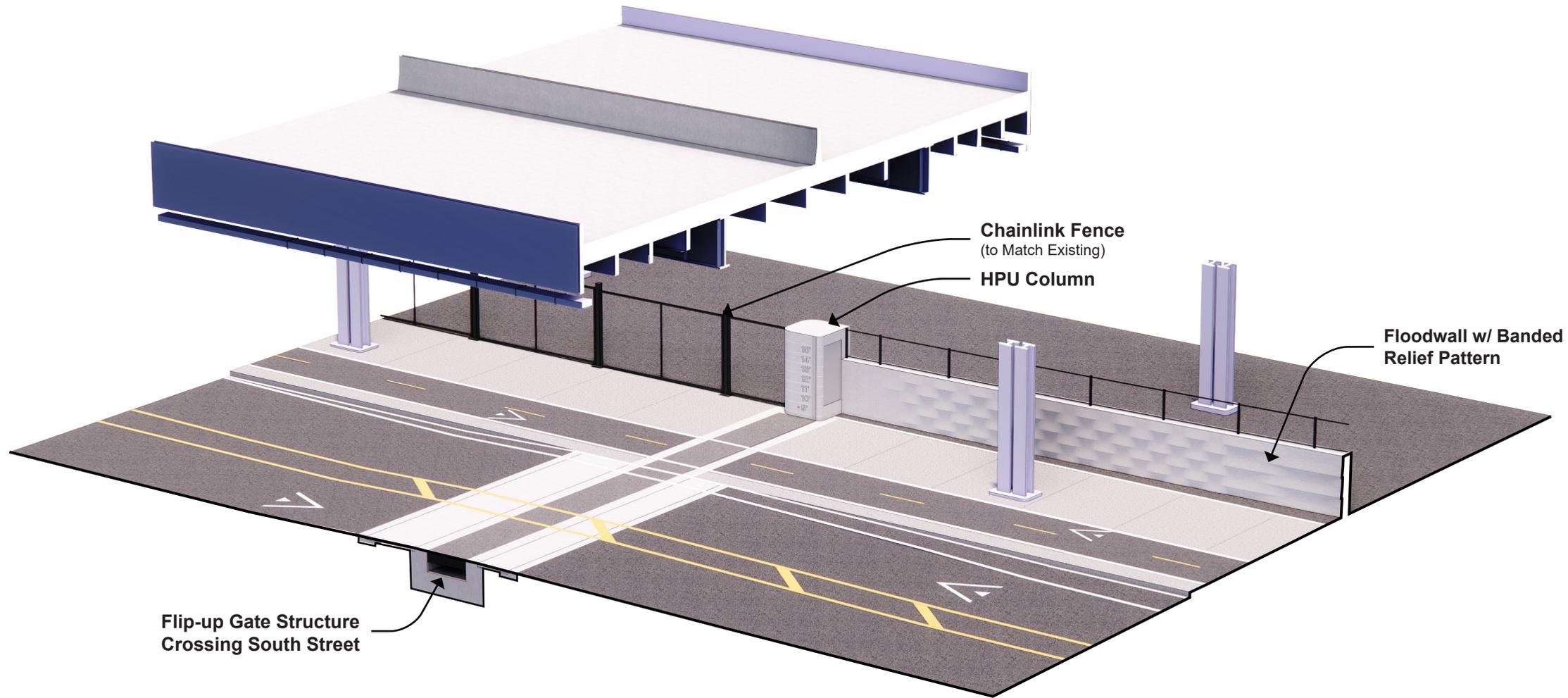
FLOOD PROTECTION WALKTHROUGH

Pier 36 Driveway at Catherine Street



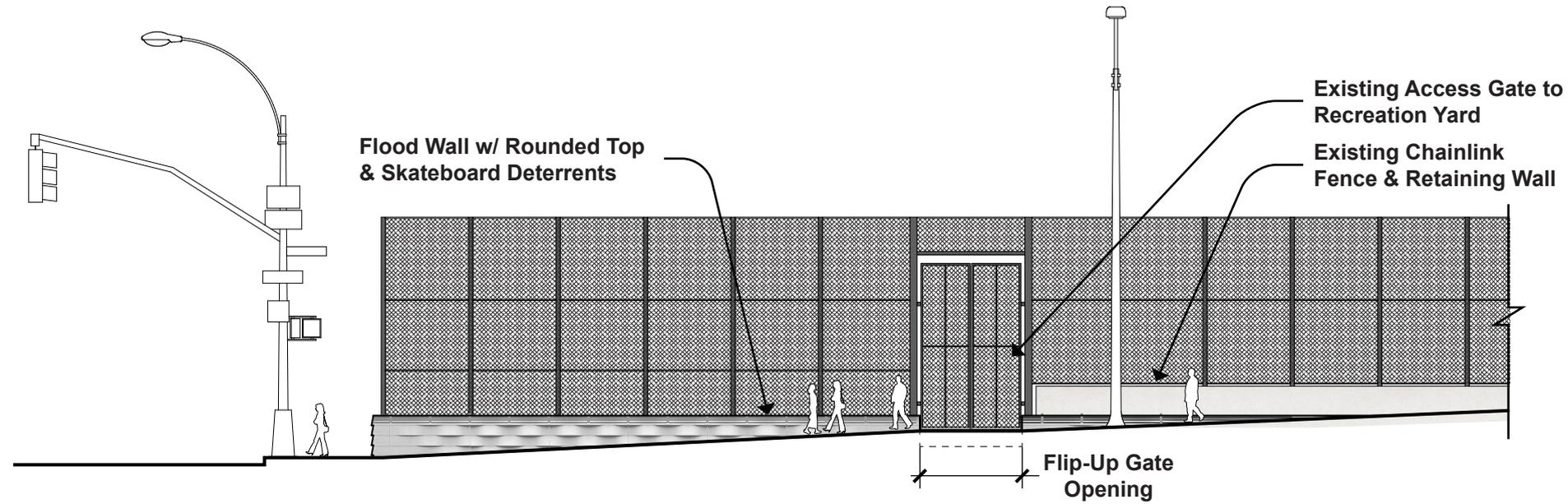
FLOOD PROTECTION WALKTHROUGH

South Street Crossing - Pier 36 Side

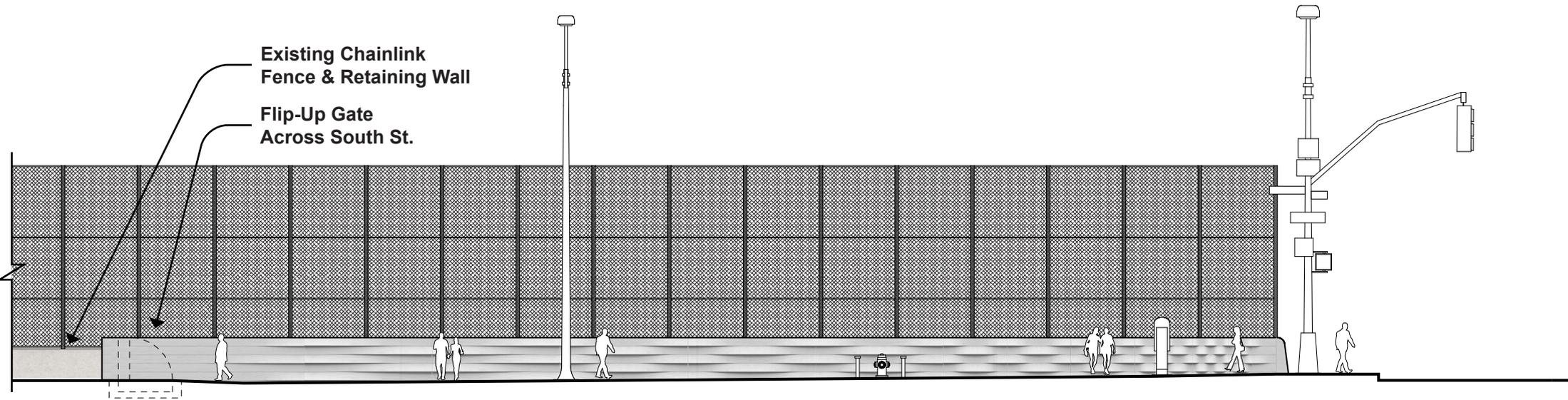


FLOOD PROTECTION WALKTHROUGH

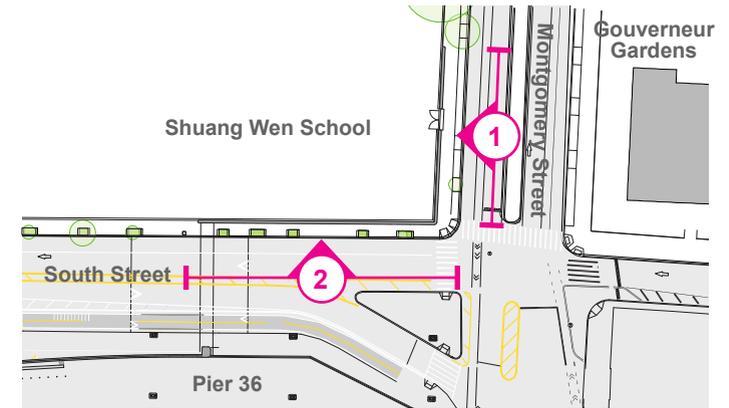
Montgomery Street Tie-In



1. TIE-IN ELEVATION - FLOOD SIDE ALONG MONTGOMERY STREET



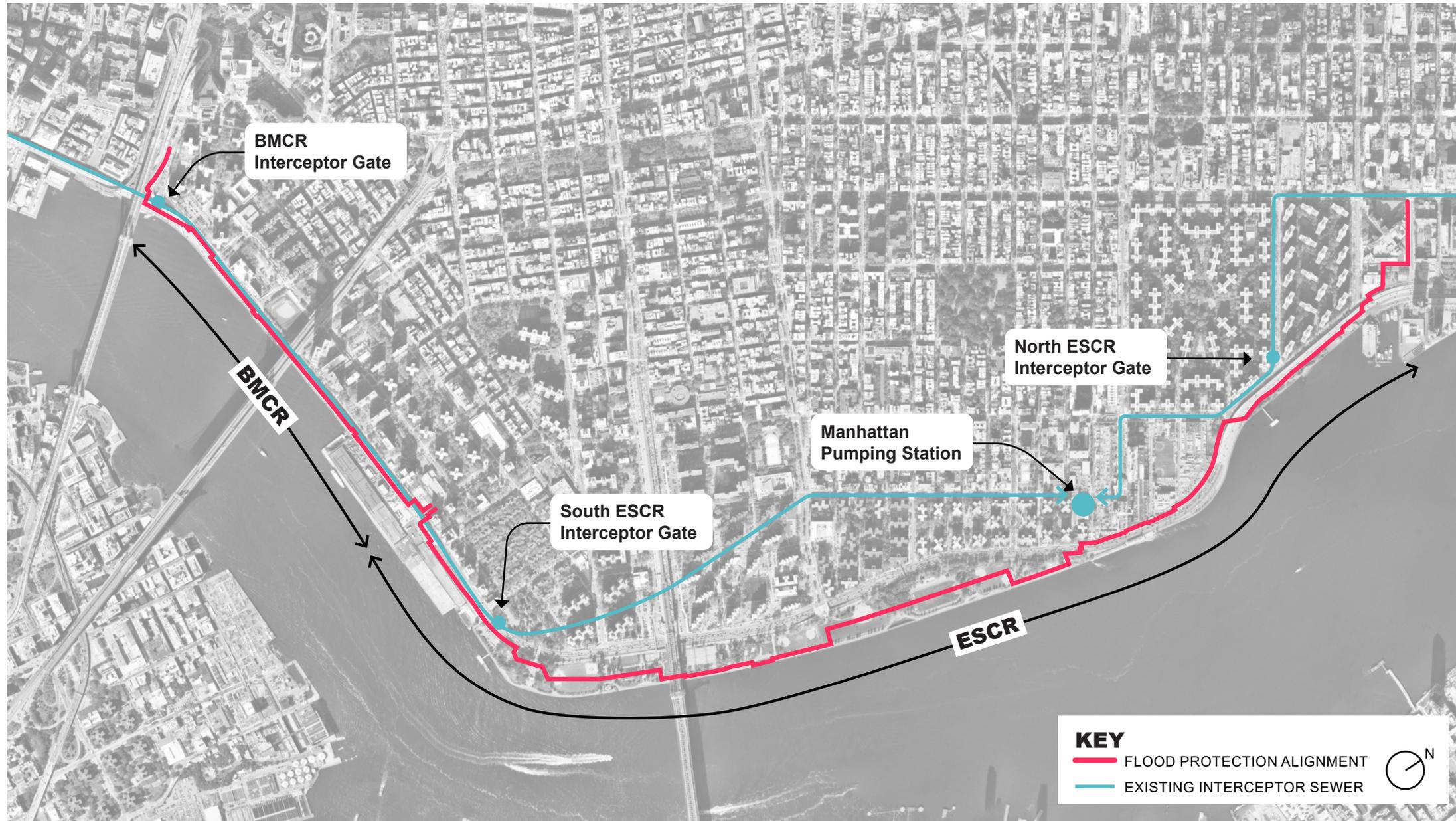
2. TIE-IN ELEVATION - FLOOD SIDE ALONG SOUTH STREET



INTERCEPTOR GATE BUILDING

INTERCEPTOR GATE BUILDING

Combined BMCR / ESCR Approach



BMCR / ESCR COMBINED INTERCEPTOR STRATEGY



BMCR IGB



SOUTH ESCR IGB



NORTH ESCR IGB

INTERCEPTOR GATE BUILDING

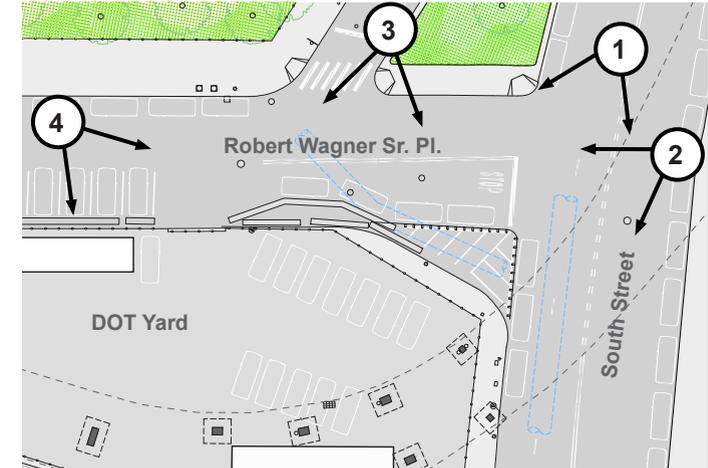
Existing Conditions



1. AERIAL VIEW FROM SOUTHEAST



2. VIEW LOOKING NORTH FROM SOUTH STREET



KEY



3. VIEW LOOKING WEST FROM SLIP STREET



4. VIEW LOOKING SOUTH FROM WAGNER PL.

INTERCEPTOR GATE BUILDING

Existing Conditions

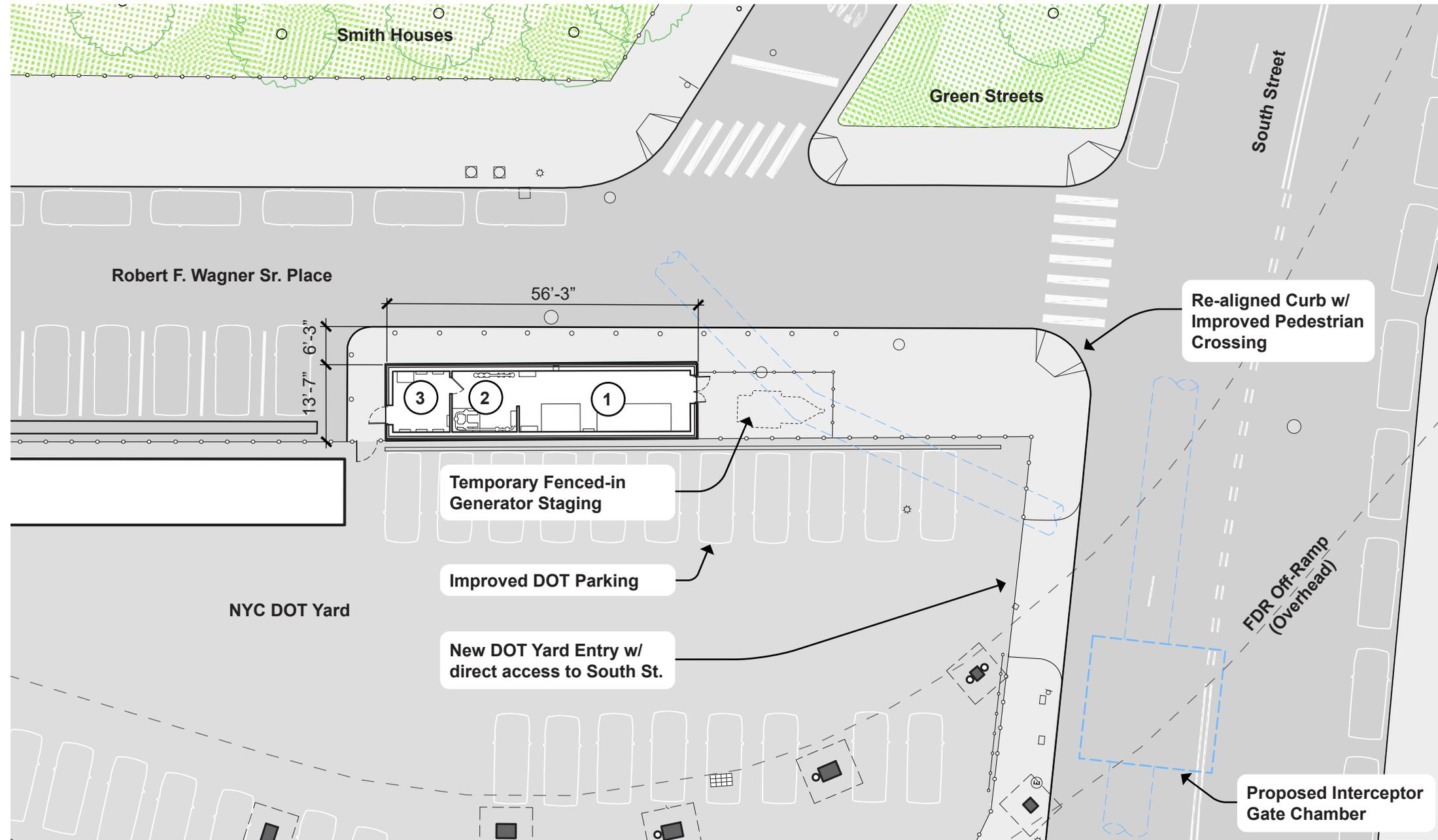


SITE CONSTRAINTS & OPPORTUNITIES

1. MINIMIZE IMPACT ON EXISTING DOT YARD
2. PROVIDE REQ'D OFFSET FROM EXISTING BELOW GRADE COMBINED SEWER
3. PROVIDE ADEQUATE CLEARANCE FROM EXISTING FDR COLUMNS AND FOOTINGS
4. IMPROVE PEDESTRIAN CONNECTION ALONG SOUTH STREET'S NORTH SIDEWALK; EXISTING STREET PATTERN CREATES RIFT WITH NO CLEAR PEDESTRIAN CONNECTION, ENCOURAGING JAYWALKING

INTERCEPTOR GATE BUILDING

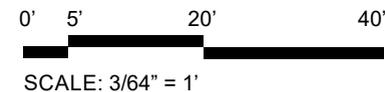
Proposed Site Plan



KEY:

- 1. Hydraulic Area
- 2. Pump Area
- 3. Electrical Room

Note: Final confirmation of site plan pending full traffic analysis of conversion of southern portion of Robert F. Wagner Sr. Pl from two-way to one-way traffic.



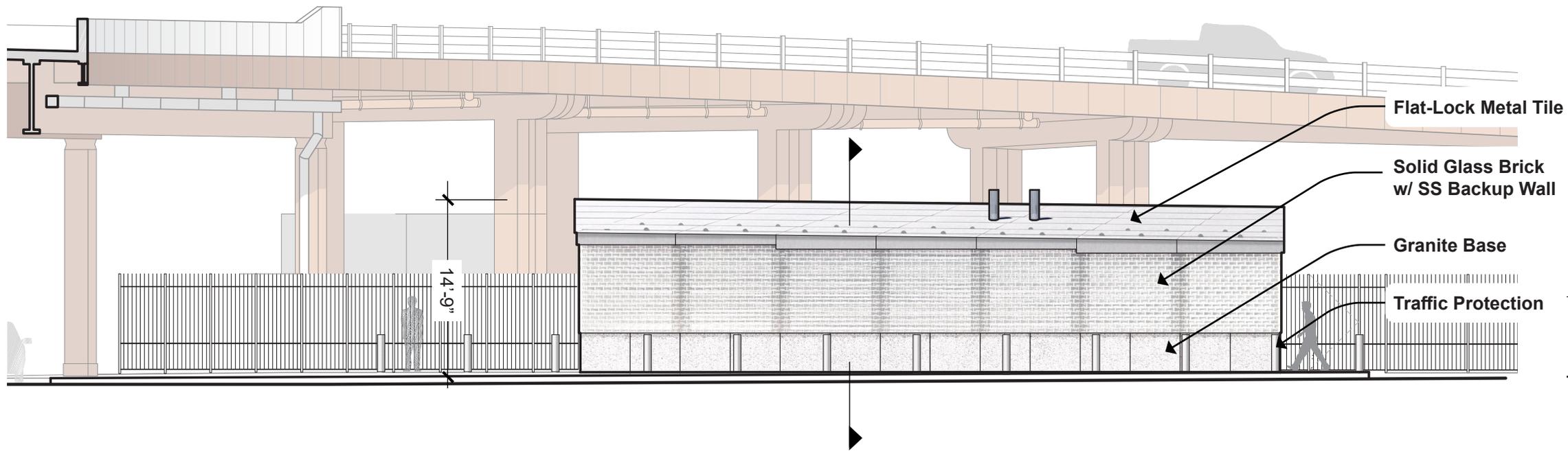
INTERCEPTOR GATE BUILDING

Aerial View from East

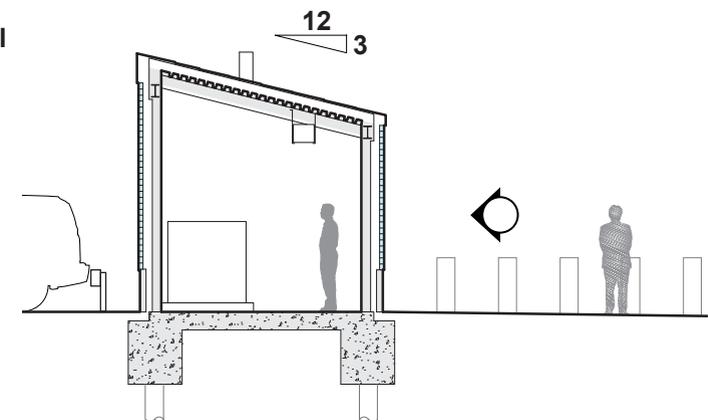


INTERCEPTOR GATE BUILDING

Elevation & Section



1. EAST ELEVATION



2. CROSS SECTION

0' 5' 20' 40'
SCALE: 3/64" = 1'

INTERCEPTOR GATE BUILDING

View from South Sreet



INTERCEPTOR GATE BUILDING

Proposed Material Palette



STAINLESS STEEL
Back Up Wall,
Doors, & Trim Elements



SOLID GLASS BRICK
Facade
(Pictured: Office Mockup)



BARRE GREY GRANITE
Stone Base



FLAT-LOCK METAL TILE
Sloped Roof Assembly