

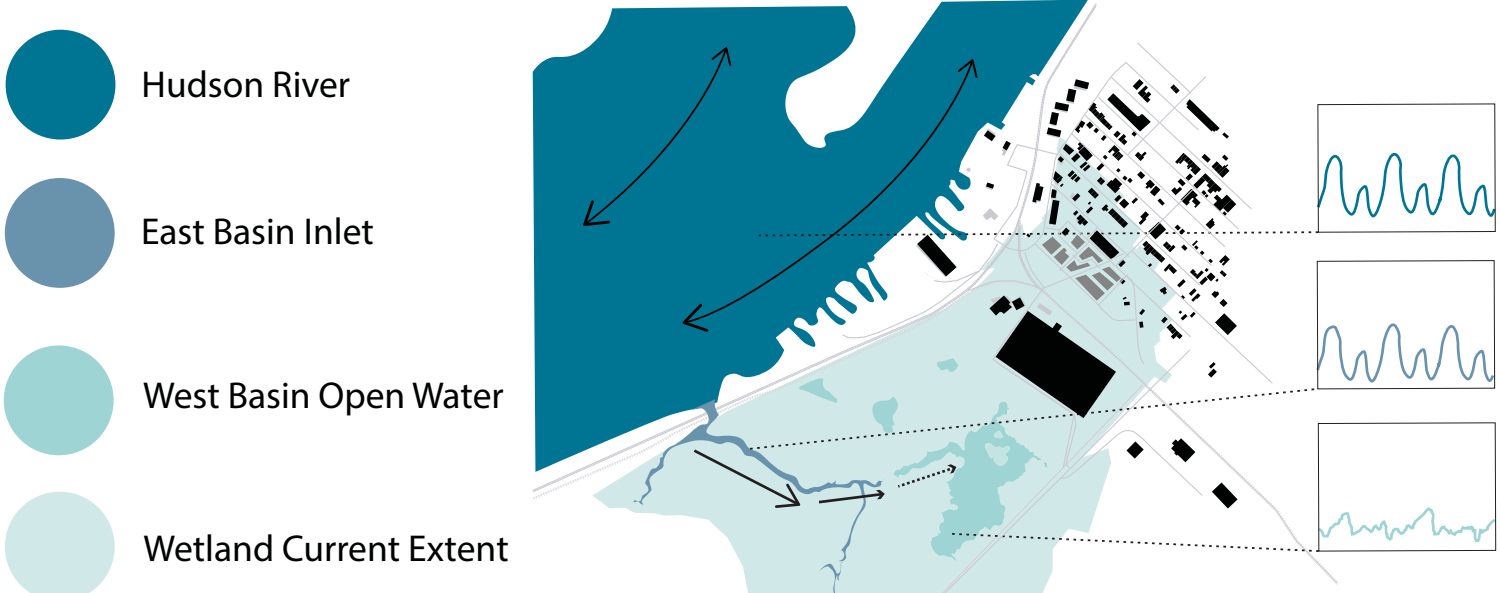
unsinkable: the WETLAND INDUSTRIAL COMPLEX

alisa chirico & graham smith

- 1
- Promenade Hill Park Redesign
- Park redesign with more thoughtful plantings and user-centric features
- 2
- Promenade-Waterfront Connector
- Switchback park connector descending the slope from Promenade Hill, bridging tracks and connecting with rise near Ferry St
- 3
- State Boat Launch + Lot Redesign
- Reduction of paved parking area, implementation of vegetated shoreline in preparation for sea level rise
- 4
- Power Boat Association Relocation
- Relocate PBA Clubhouse function to higher ground (currently sheds and storage)
- 5
- Henry Hudson Riverfront Park Redesign
- Realignment of Water Street, replacement of retaining wall with gentle slope for better connectivity, planting redesign to define open and closed spaces and views
- 6
- Dunn Warehouse Wet Floodproofing
- Raise floor of Dunn Warehouse above 100-yr flood elevation, except for future Sloop Club workshop
- 7
- New Street Grid
- Realign streets following KAZ teardown to accommodate new development, creating visual connection between Robert Taylor House and Basilica Hudson
- 8
- Flour Mill Market Triangle
- New plaza and small market pavilion in triangle island framed by ADM and CSX rail, creating patch of pedestrian interest
- 9
- Canopy Pay-Parking
- Redesign of parking lot with strategic pattern and CU-structural soil to increase canopy coverage
- 10
- New Lighthouse View Park
- Conceptually mirroring historic slips, excavate shoreline southwest of deep water dock to create new public park that drastically changes form with sea-level rise
- 11
- Basilica Wet Floodproofing
- Implement sub-floor radiant heating in Basilica Hudson to be used to speed flood-water evaporation after floods recede
- 12
- Basilica/LB Shared Canopy Parking
- Redesign and unification of parking for Basilica and LB Warehouse with strategic pattern and structural soil, maximizing canopy coverage, ameliorating derelict, uninviting, impermeable expanses
- 13
- Overflow Parking Meadow
- Structural soil and strategic planting to create a meadow to be mown seasonally for event overflow parking
- 14
- LB Warehouse Green Roof and Murals
- Extensive (3-4" deep) sedum green roof on LB Warehouse and commissioned murals to expand upon area's cultural and ecological signature
- 15
- Woodland Trails
- Foot trails through current ruderal forest to East Basin and Central Pond overlooks
- 16
- Causeway Trail and Overlooks
- Conversion of causeway to pedestrian use, with overlooks at critical vantage points
- 17
- Anti-Phragmites Plantings
- In advance of sea-level rise related marsh migration, hydroseed and live-stake wetlands around *Phragmites australis* with species that can slow progression
- 18
- Colarusso Truck Reroute
- Work with A Colarusso & Son to establish new route from quarry to port around LB Warehouse
- 19
- 9G Elevation
- Elevate 9G to 14' above NTDE Mean Sea Level



HYDROLOGY - TIDAL AMPLITUDE and FLOOD RISKS



2080 Flood Risk



INHABITABILITY through GREENSPACE

- Wetland/Naturalized
- Parking Canopy, Street Trees
- Meadows for Parking and Rail Naturalization



Pedestrian Connectivity and Recreation



Three matrices collide in the South Bay - urban, industrial, and ecological. Weaving these matrices into each other forms new frameworks for growth and corridors of ecological and cultural connectivity.

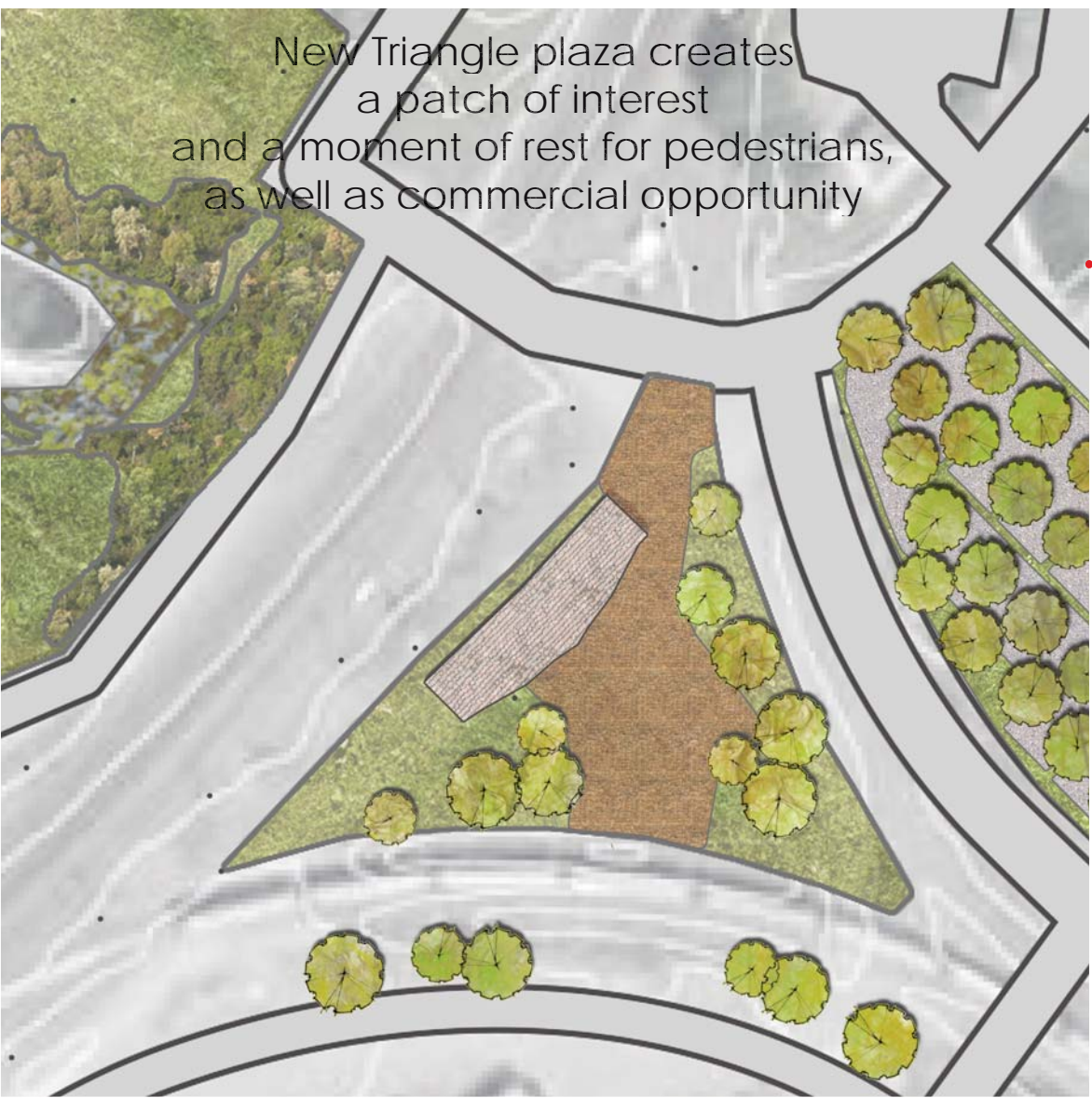
EXISTING CONDITIONS:



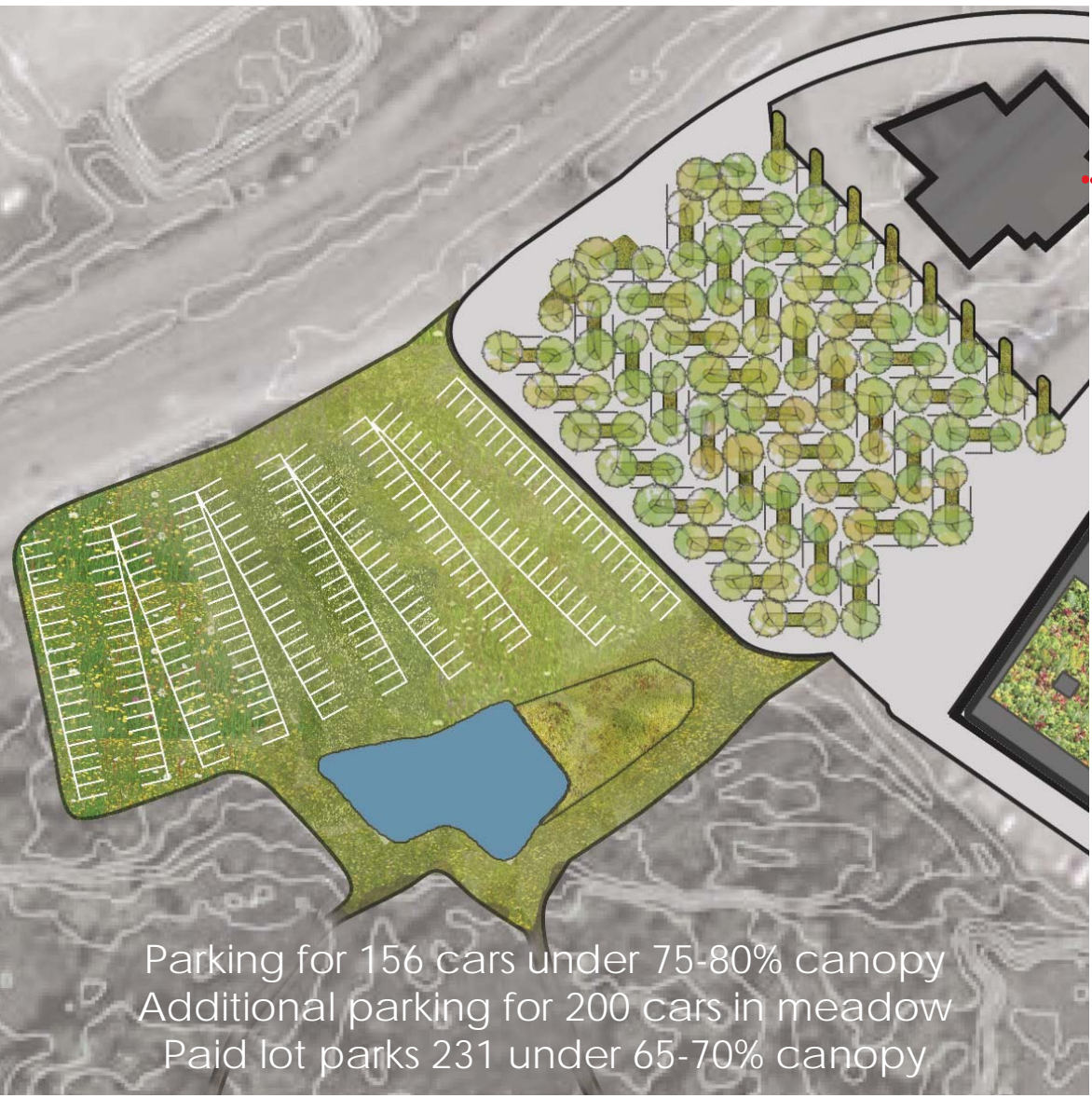
PROPOSED CONCEPT:



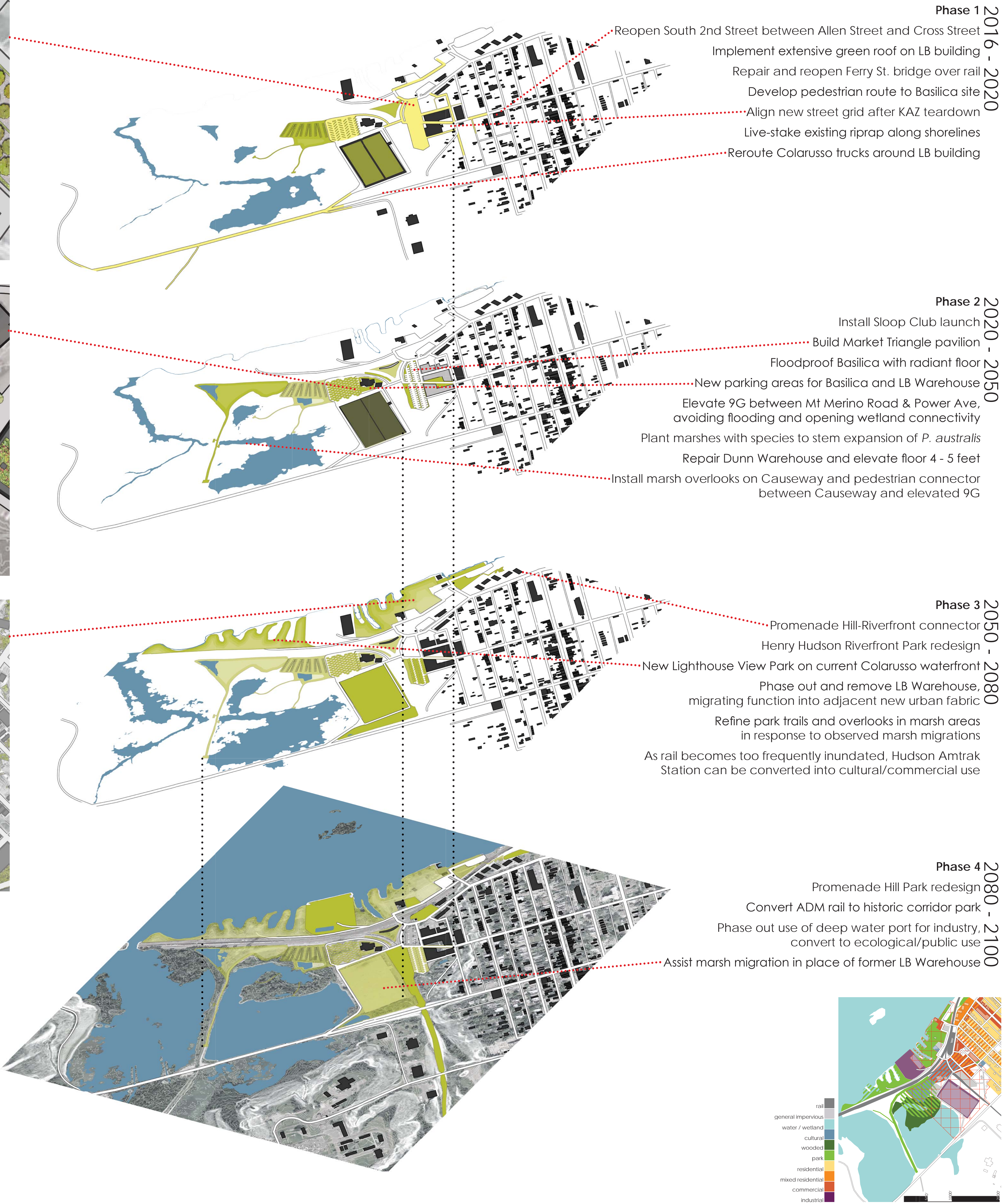
Flour Mill Market Triangle



Meadow and Canopy Parking



Henry Hudson Riverfront Park



Phase 1

2016 - 2020

- Reopen South 2nd Street between Allen Street and Cross Street
- Implement extensive green roof on LB building
- Repair and reopen Ferry St. bridge over rail
- Develop pedestrian route to Basilica site
- Align new street grid after KAZ teardown
- Live-stake existing riprap along shorelines
- Reroute Colarusso trucks around LB building

Phase 2

2020 - 2050

- Install Sloop Club launch
- Build Market Triangle pavilion
- Floodproof Basilica with radiant floor
- New parking areas for Basilica and LB Warehouse
- Elevate 9G between Mt Merino Road & Power Ave, avoiding flooding and opening wetland connectivity
- Plant marshes with species to stem expansion of *P. australis*
- Repair Dunn Warehouse and elevate floor 4 - 5 feet
- Install marsh overlooks on Causeway and pedestrian connector between Causeway and elevated 9G

Phase 3

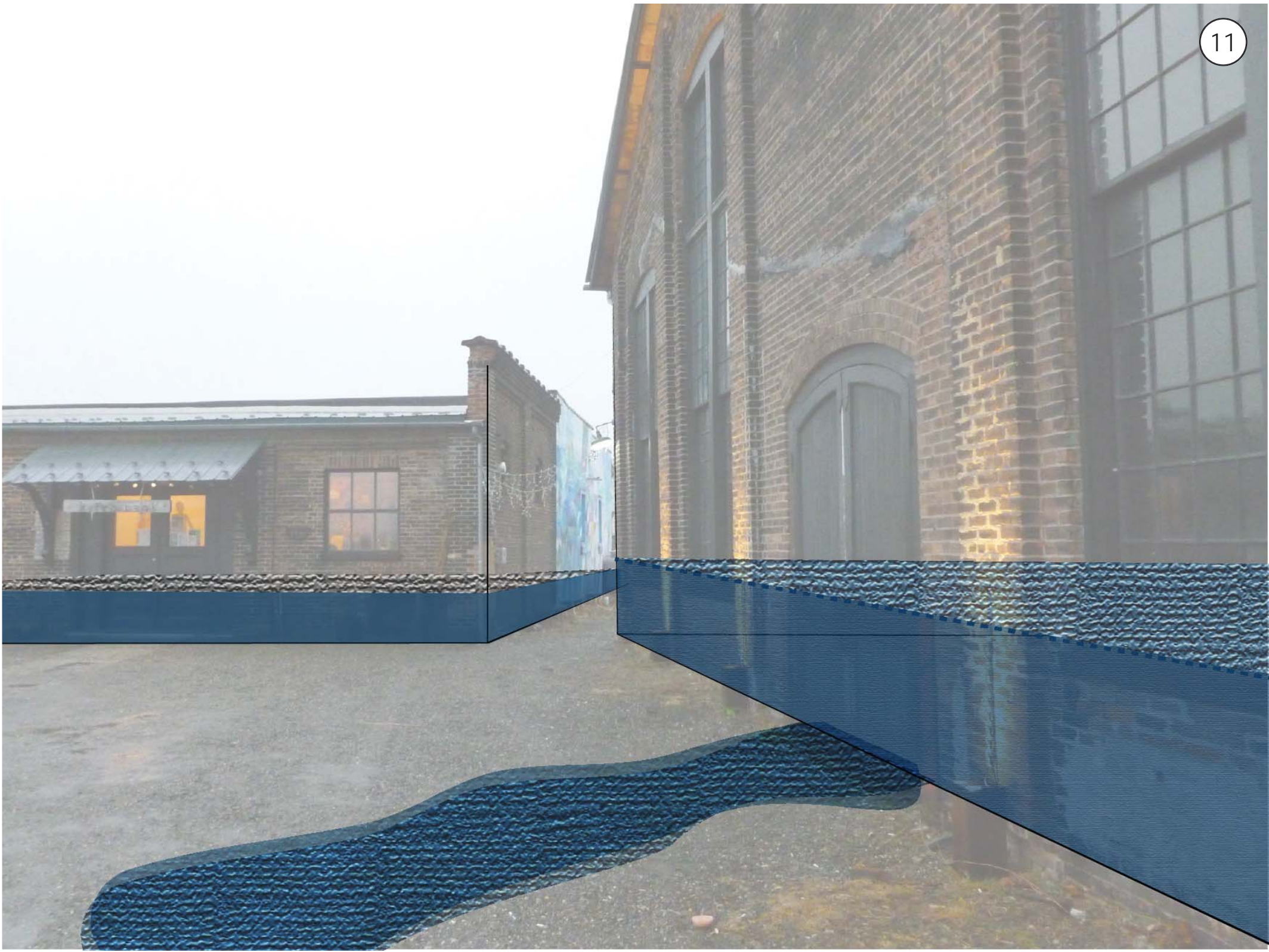
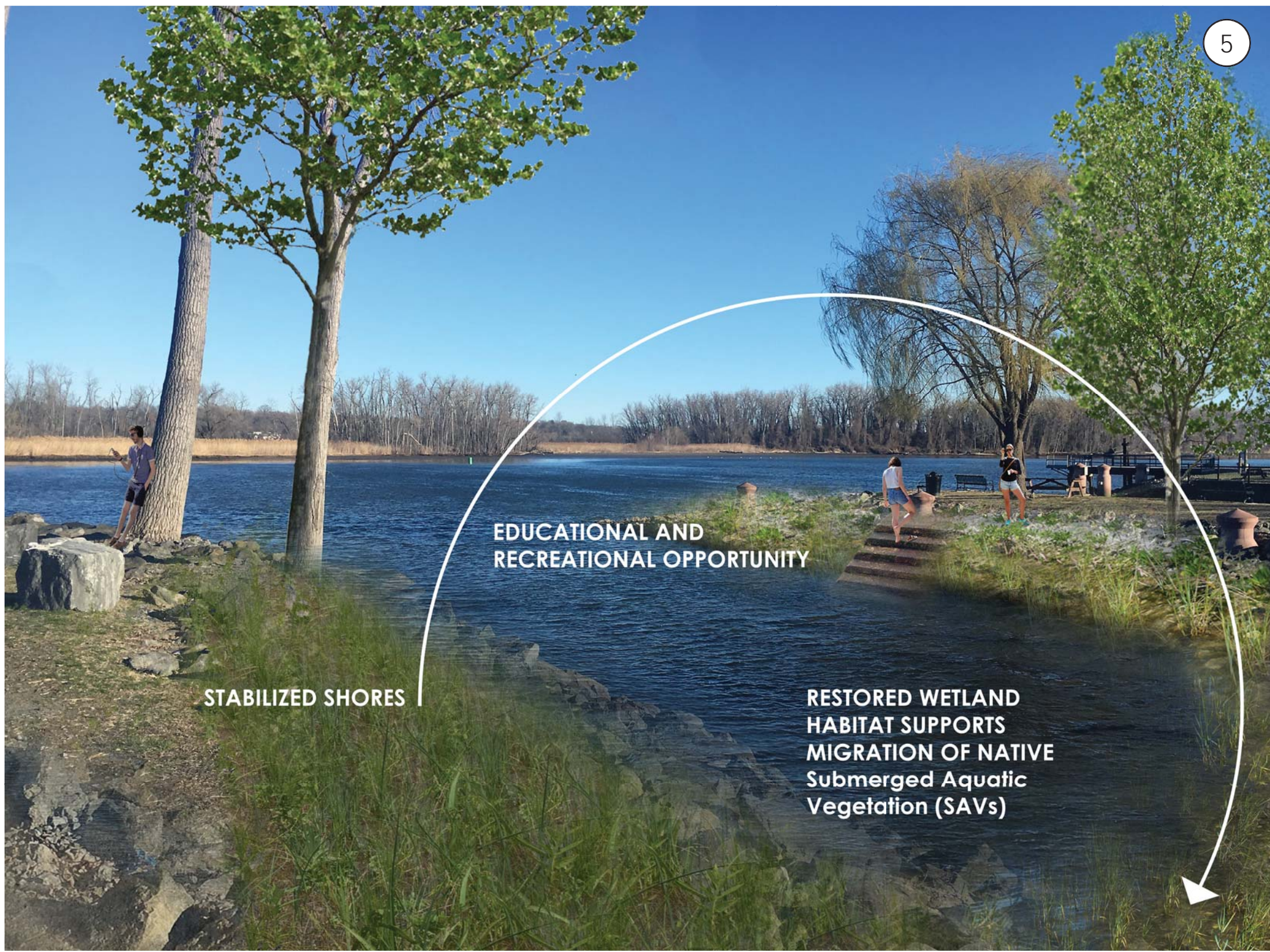
2050 - 2080

- Promenade Hill-Riverfront connector
- Henry Hudson Riverfront Park redesign
- New Lighthouse View Park on current Colarusso waterfront
- Phase out and remove LB Warehouse, migrating function into adjacent new urban fabric
- Refine park trails and overlooks in marsh areas in response to observed marsh migrations
- As rail becomes too frequently inundated, Hudson Amtrak Station can be converted into cultural/commercial use

Phase 4

2080 - 2100

- Promenade Hill Park redesign
- Convert ADM rail to historic corridor park
- Phase out use of deep water port for industry, convert to ecological/public use
- Assist marsh migration in place of former LB Warehouse



Wet Floodproofing:

Allowing floodwaters to flow freely is appropriate for older, non-residential buildings. It requires large open doors to let water out as quickly as possible when floodwaters recede, and can be helped with radiant floor heat, fans, and dehumidifiers to dry out any residual moisture, without compromising access or architectural integrity.



- Spartina alterniflora
- Iva frutescens
- Clethra alnifolia
- Baccharis halimifolia
- Morella pensylvanica
- Cephalanthus occidentalis

Plantings to prevent advance of *Phragmites*

