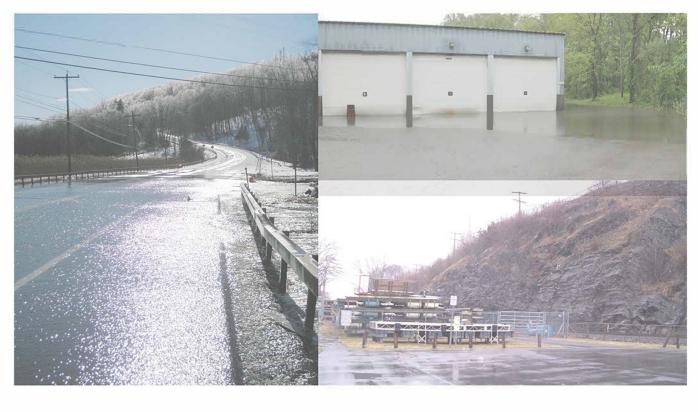
Time Refractor

Xiaoying Li, Ming Chi



Issues

- 1. Sea level rise, flooding
- 2. Poor connection to the riverfront

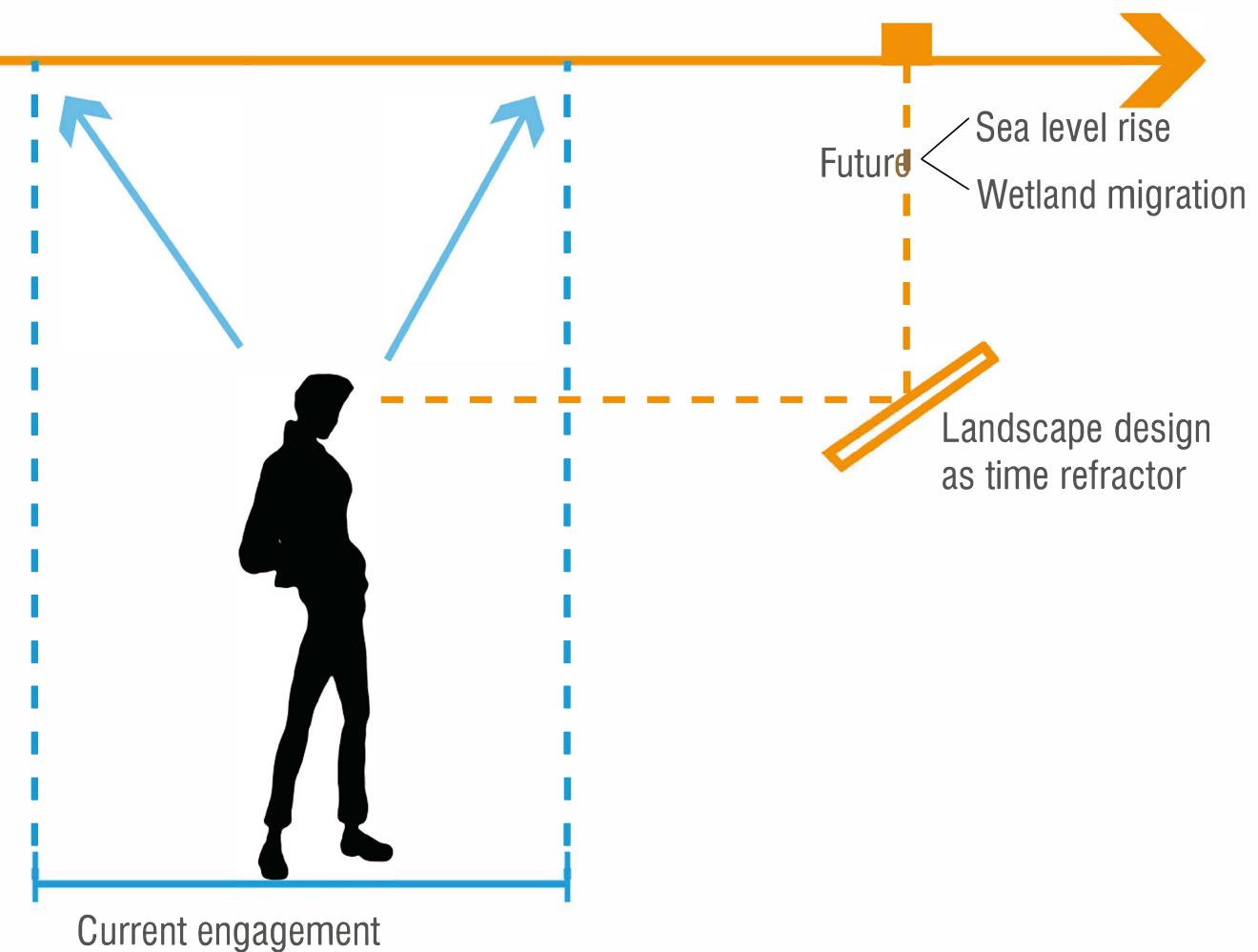
Goals

1. Adapt to sea level rise and increase resilience to future flooding

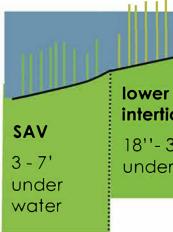
2. Revealing the natural process of sea level rise and wetland migration

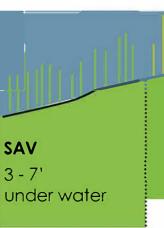
Concept

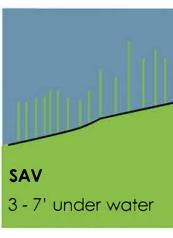
Natural processes such as sea level rise is gradual and could not be directly be perceived by most of us, who focus on current issues. Landscape design could perform as a time refractor, which reveals the natural processes to people and help them to view it more directly.



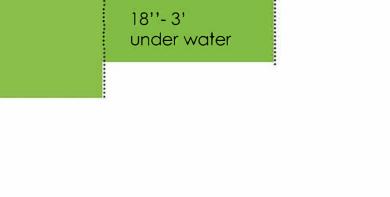
Wetland Migration meadow/ wooded swamp upper intertidal mix 18'' - 0 intertidal mix under water 18''-3' under water under vater wooded swamp upper intertidal mix ntertidal mix 18''- 3' water under water under water







upper intertidal mix lower intertidal mix



Time &Natural processes

Innudation Level



2015



2050





Phasing



2016 - 2040

Raise the railroad by 10' & elevate train station platform

- -New Power Boat dock & building
- Redevelope to mixed-use buildings
- _Raise highway 9G by 7'



- Integrate slope within the park design
- Floodable play field
- Raise Dunn Building
- Renovated hotel & mixed used buildings with water harvesting system, open 2nd St.
- Wetland trail development
- Cause way relocation



2040 - 2060

- Sky bridge connecting Franklin park and riverfront
- New ferry station
- Colarusso loading zone
- Adapt Basilica, Kite's nest relocated, new amphitheatre

2060 - 2080

Site Plan

0 100' 200' 400'

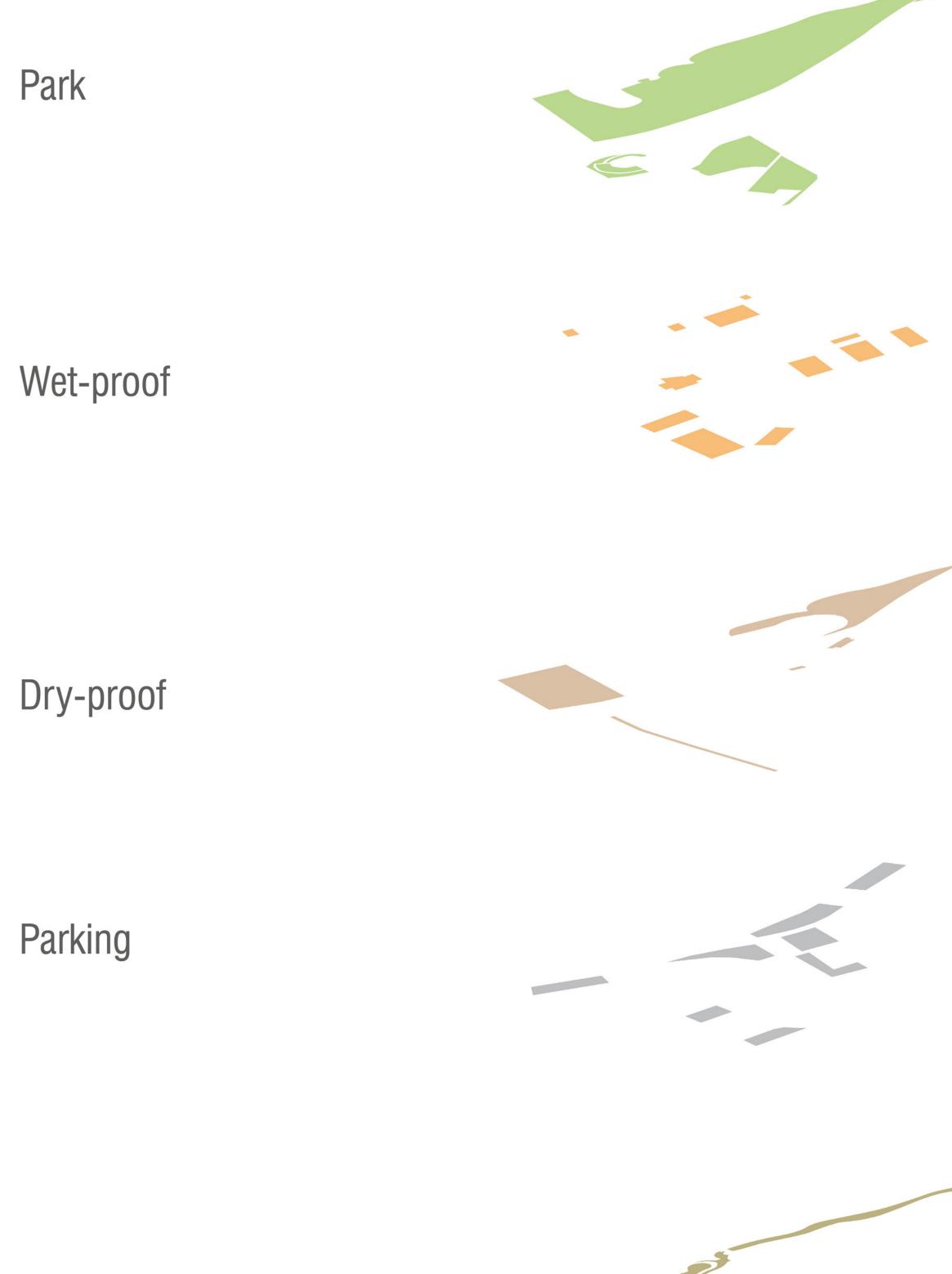
- A Franklin Park
- B Sky Bridge
- C Play Field
- D Train Station
- E Dunn Building
- F Boat Ramp
- G Power Boat Dock
- H Ferry Station
- l Colarusso
- J Hotel
- K Mixed Use
- L Basilica
- M Amphitheatre
- N Wetland Trail

.......

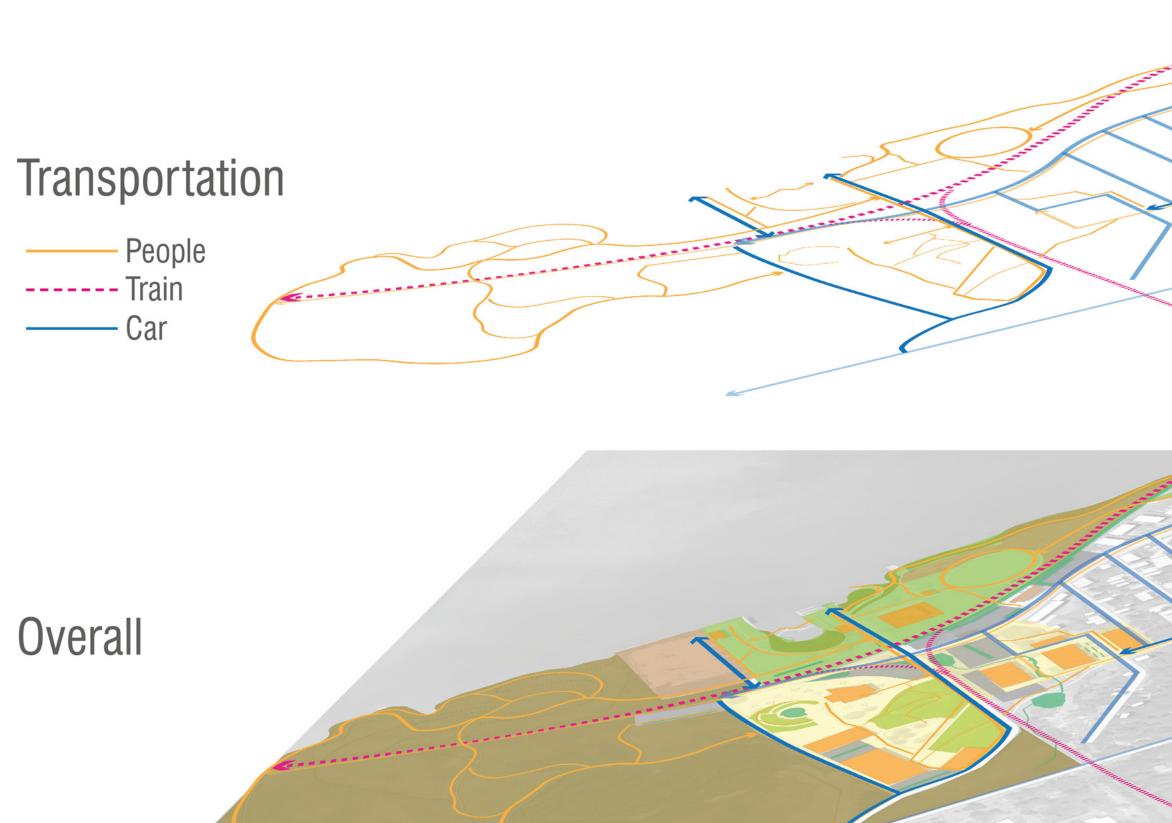
2050 MHHW



System Diagram





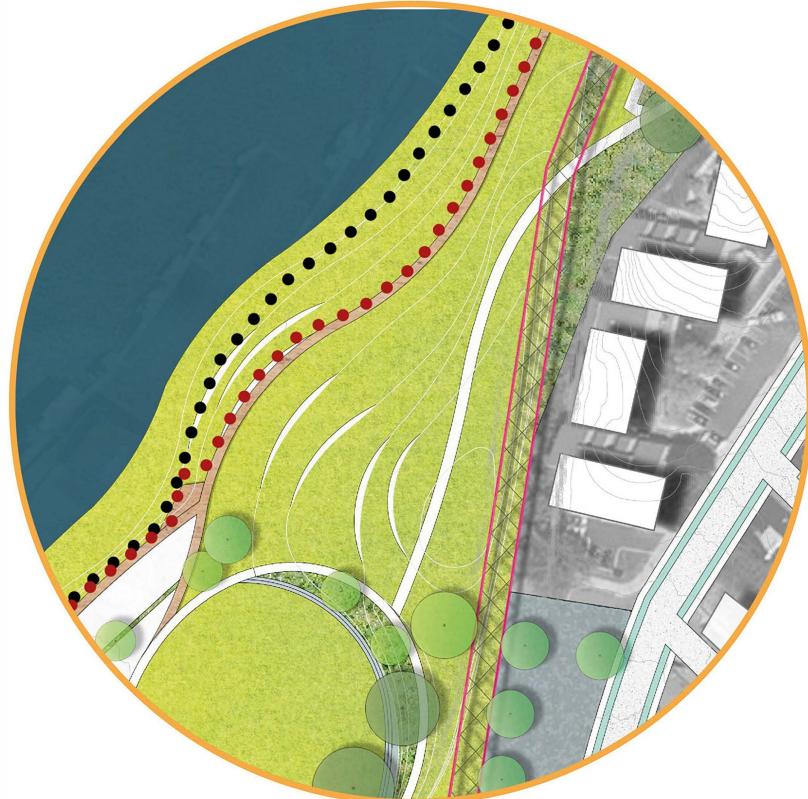




2

Slope: protect from erosion, transition from uphill to the riverfront

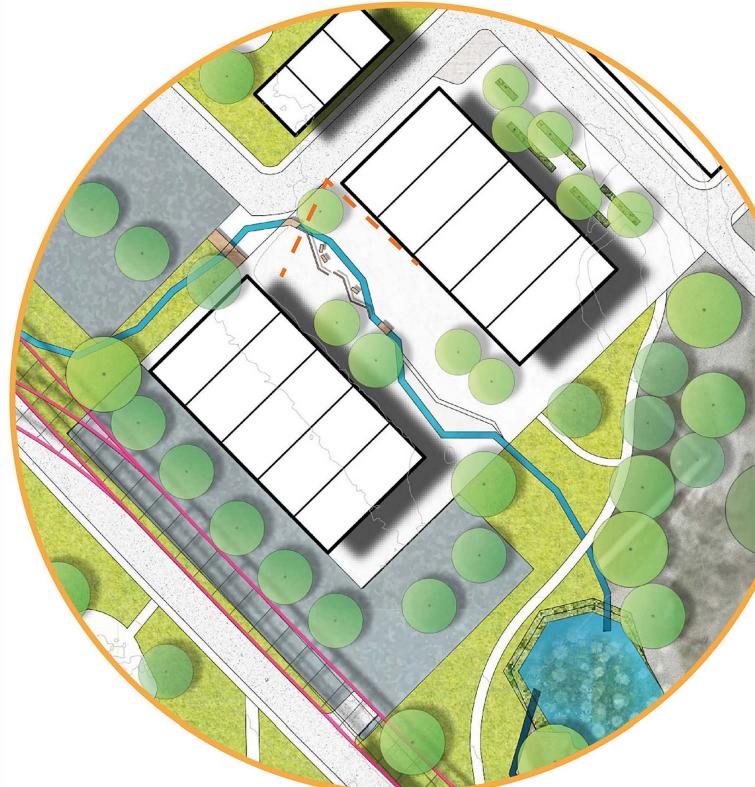
Terrace and poles: register sea level rise, mean high high water (MHHW)

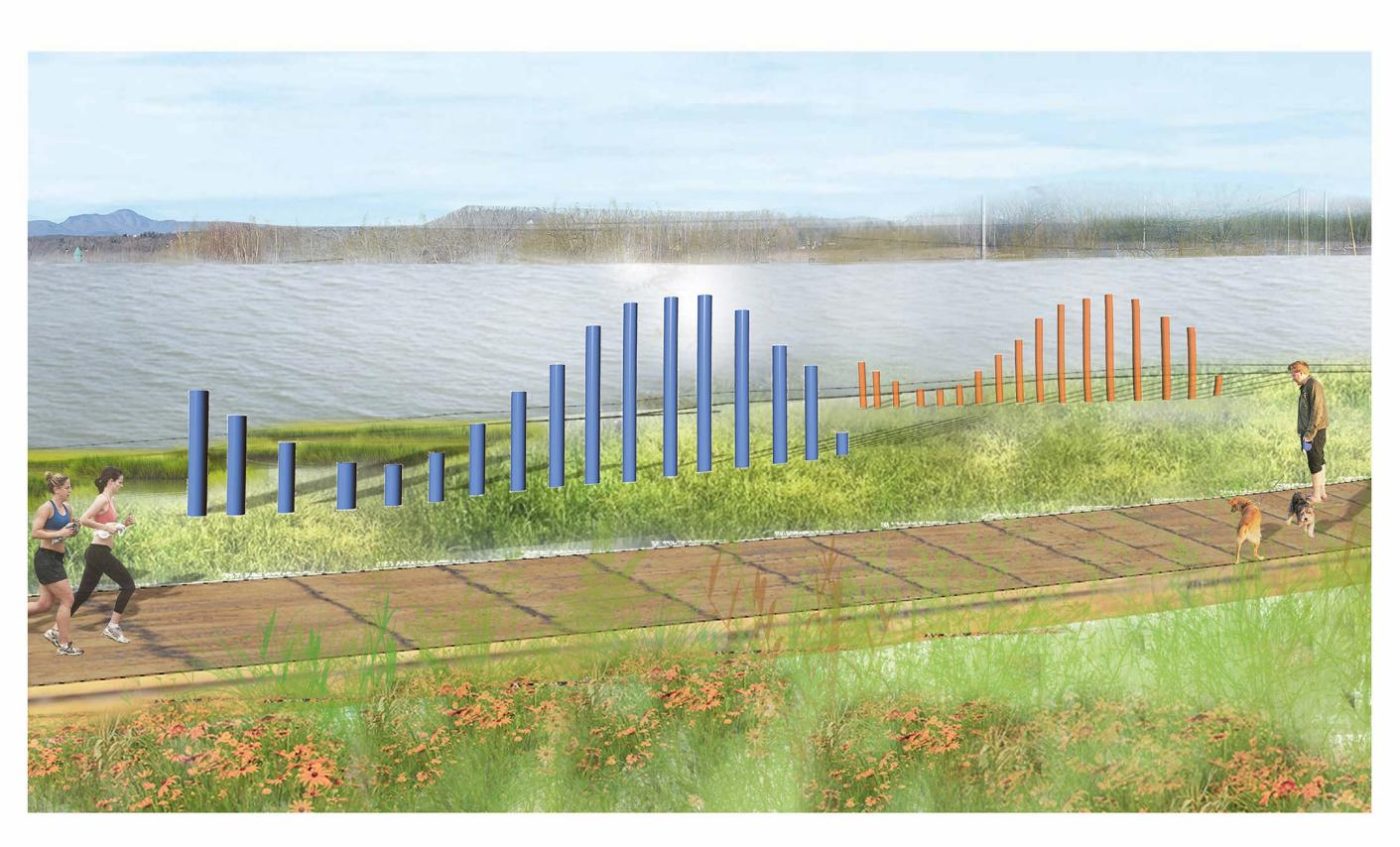


Multi-Use Buildings: combining art studio, retails, and grocery

Water Channel: harvest storm water

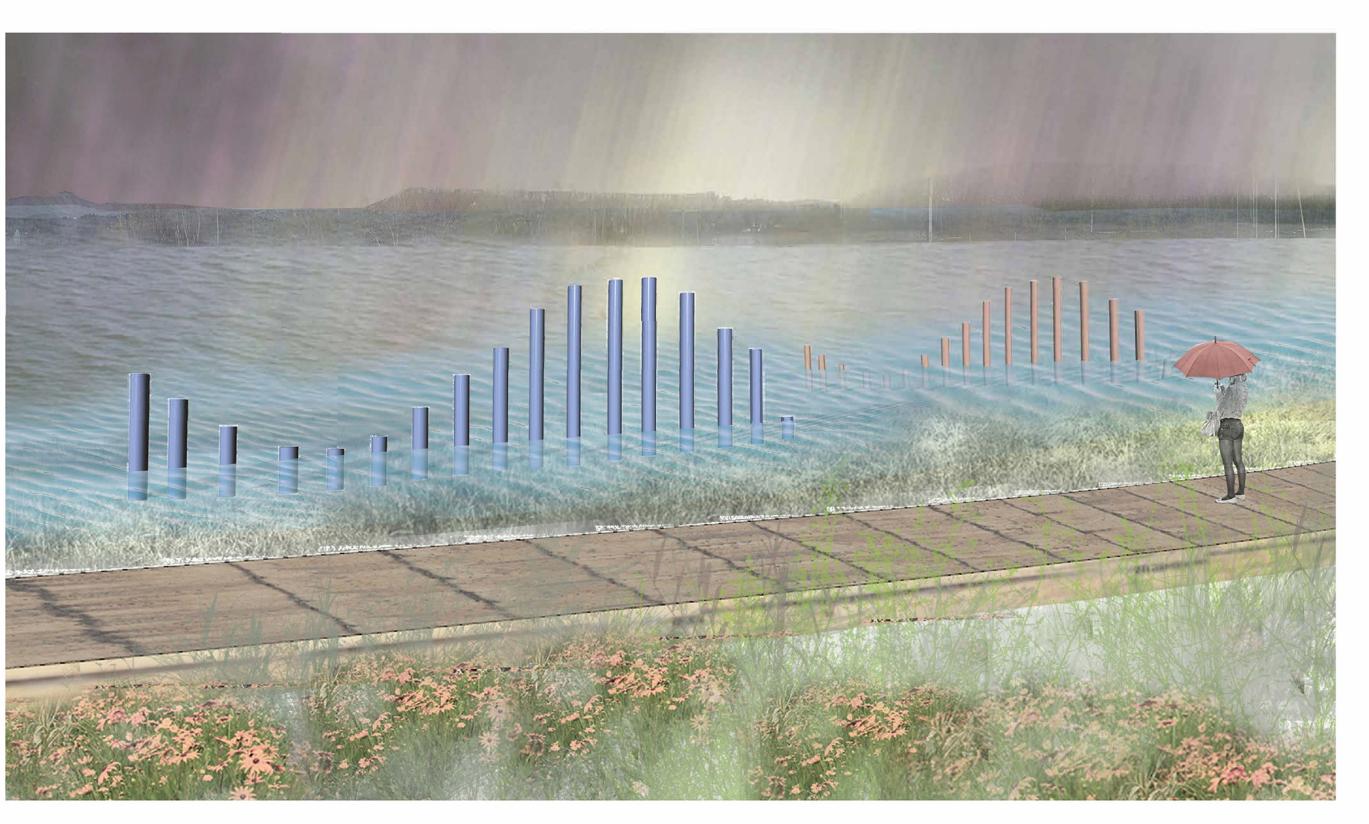
Poles: register 10, 20, 50 year flood







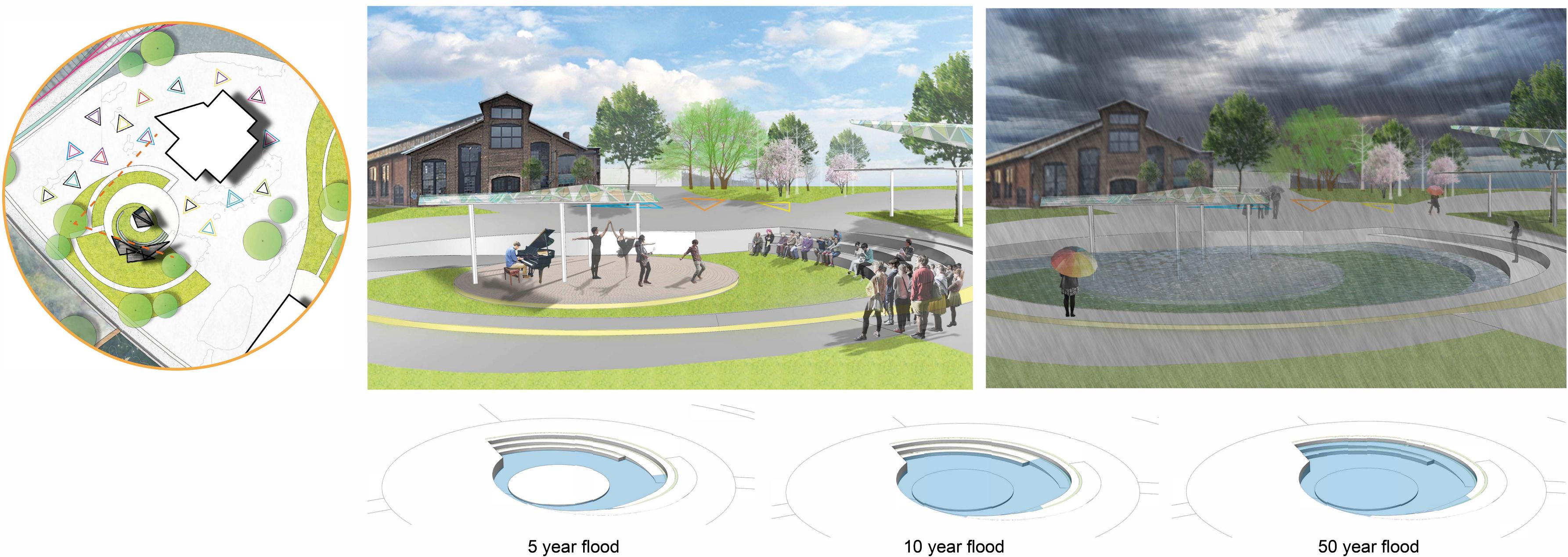






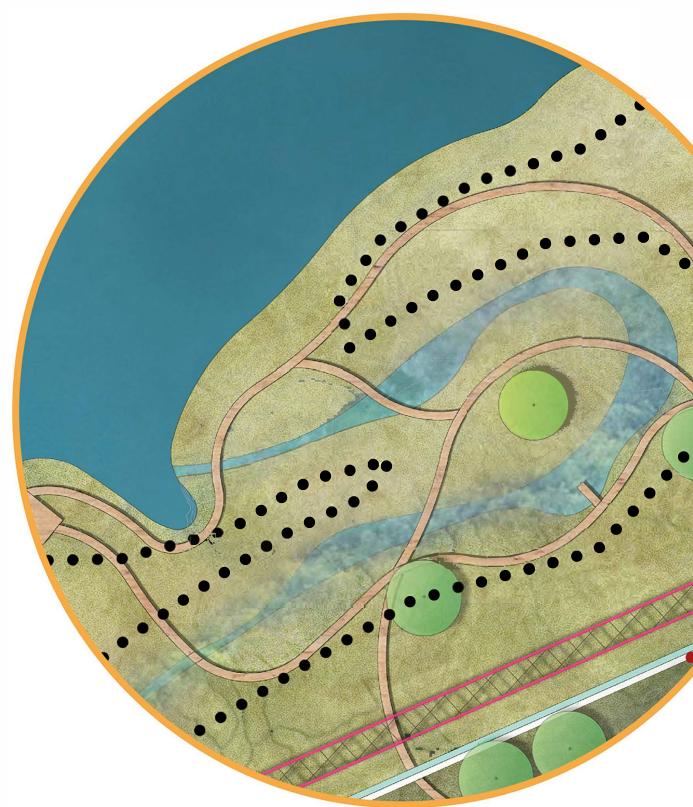
Basilica Amphitheatre: celebrate the culture of Hudson; collect and register flood level

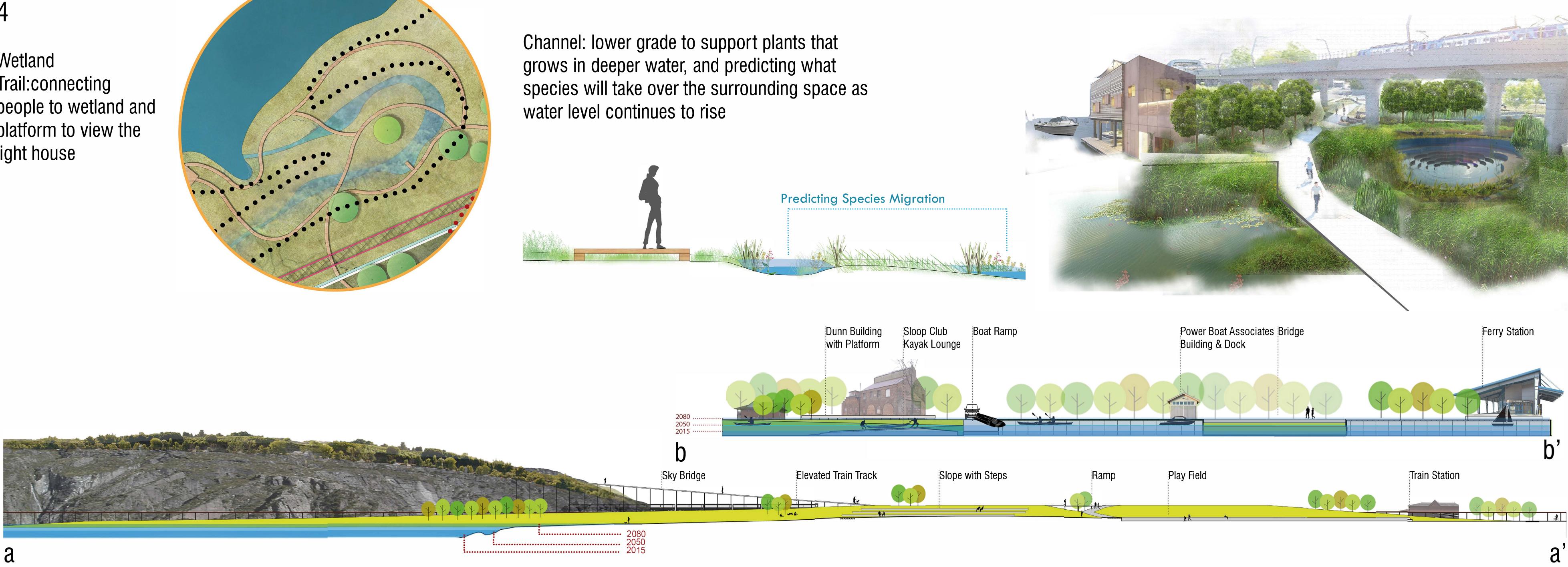
3



4

Wetland Trail:connecting people to wetland and platform to view the light house





10 year flood

50 year flood