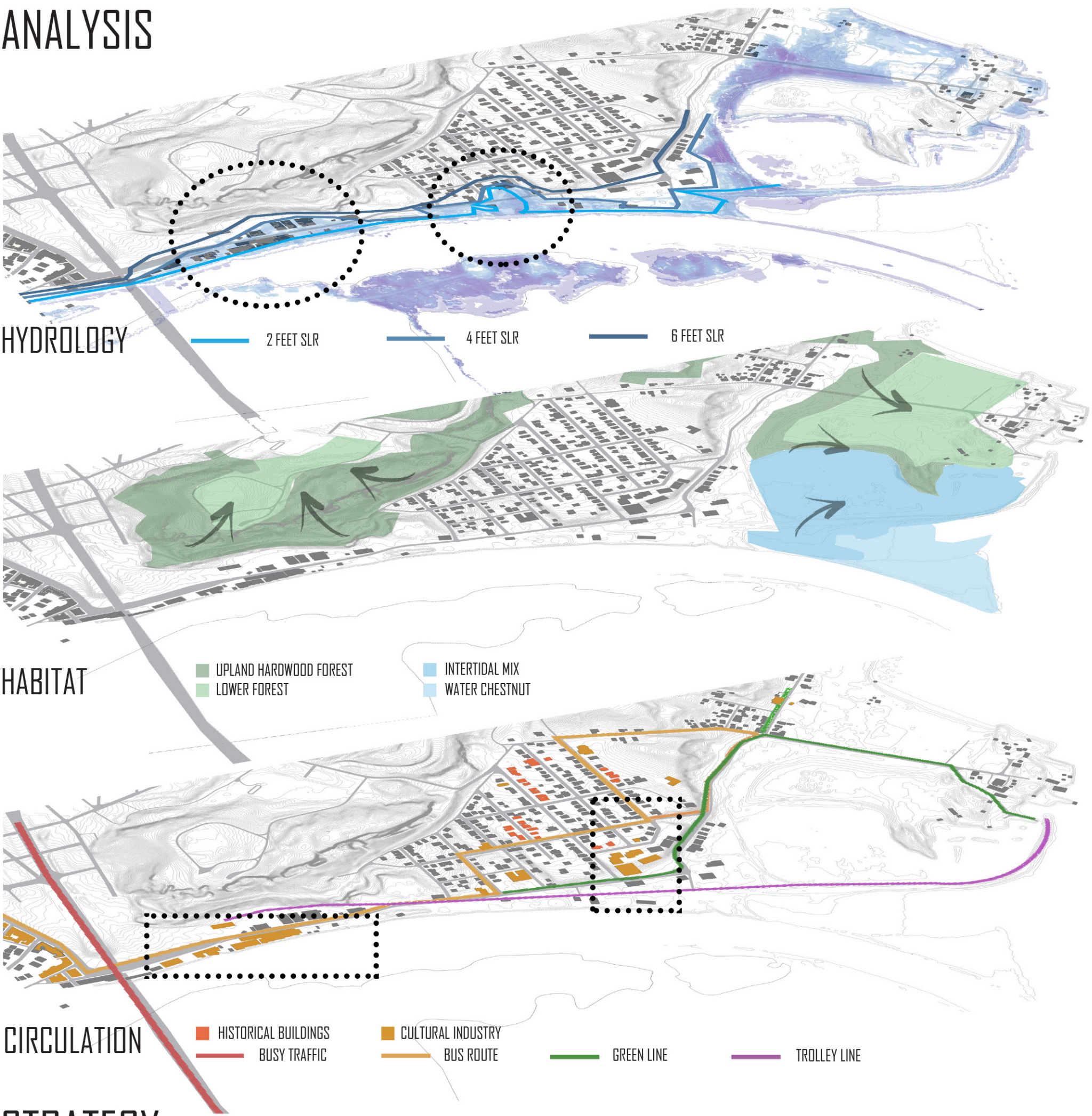
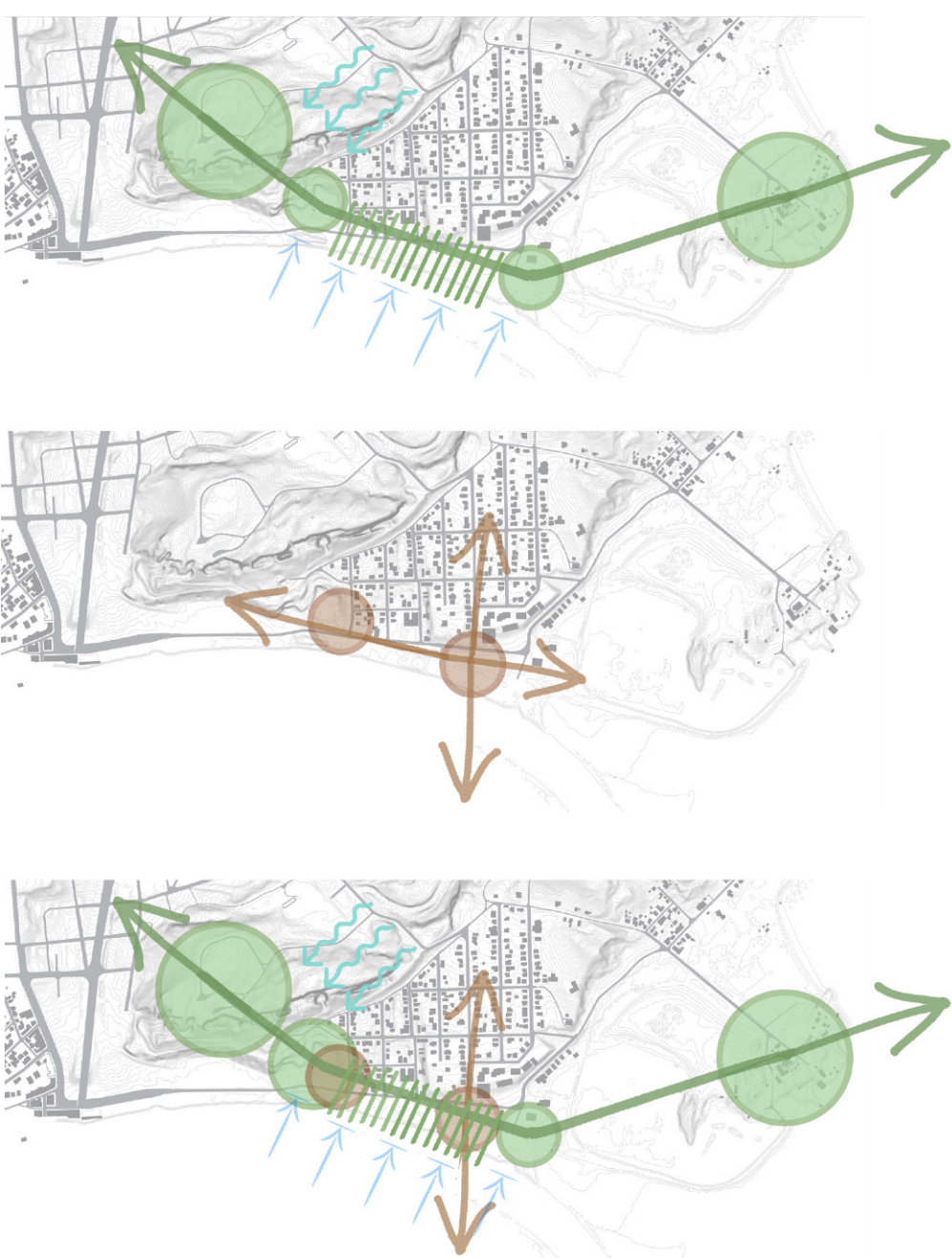


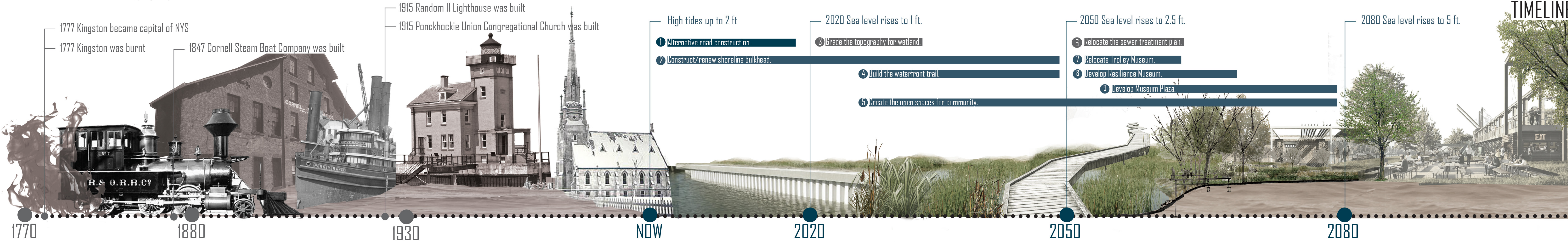
ANALYSIS



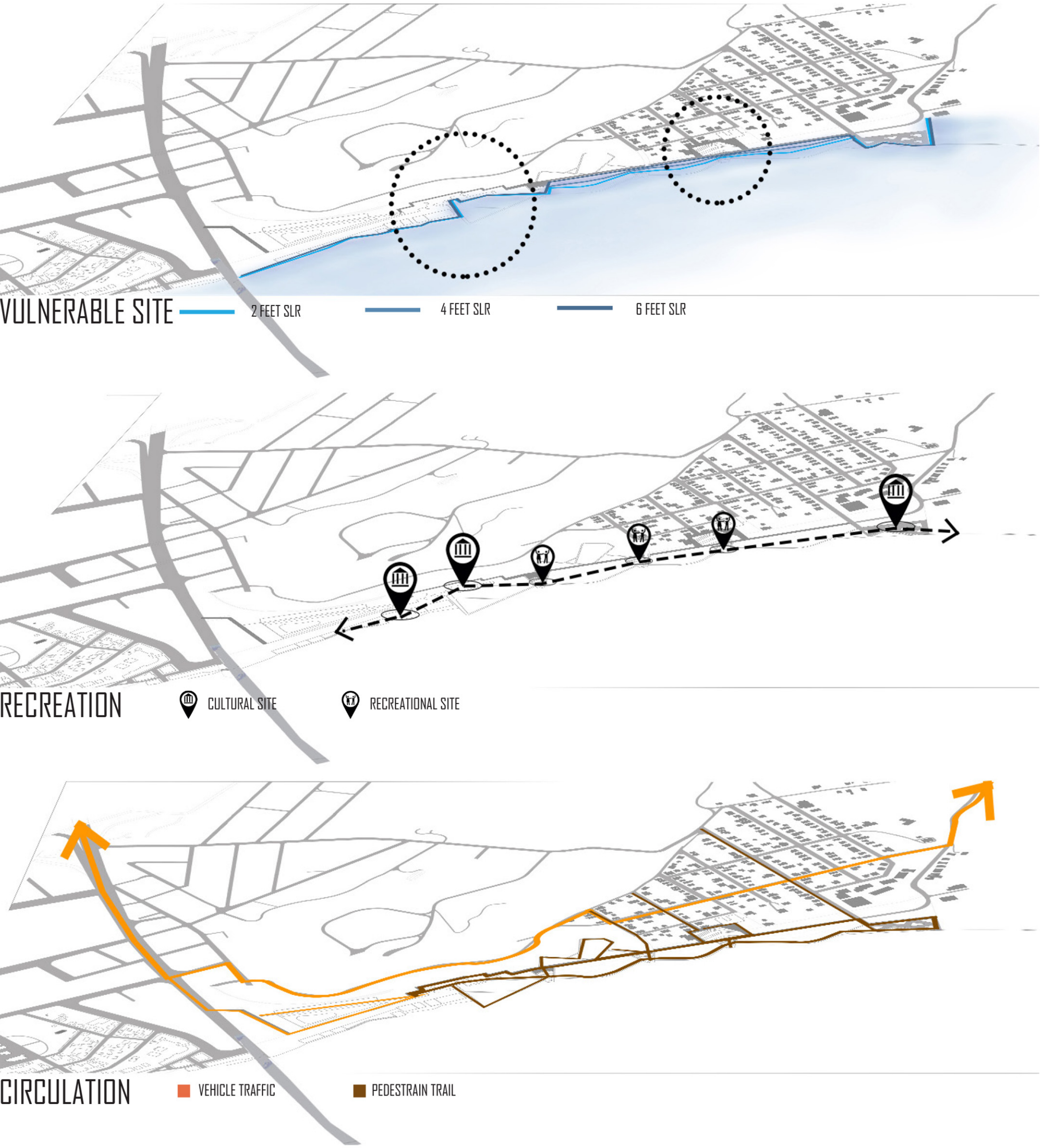
STRATEGY



BUILDING BONDS
LIJIN LIU, SHAN LING



PROPOSED ANALYSIS-CULTURE



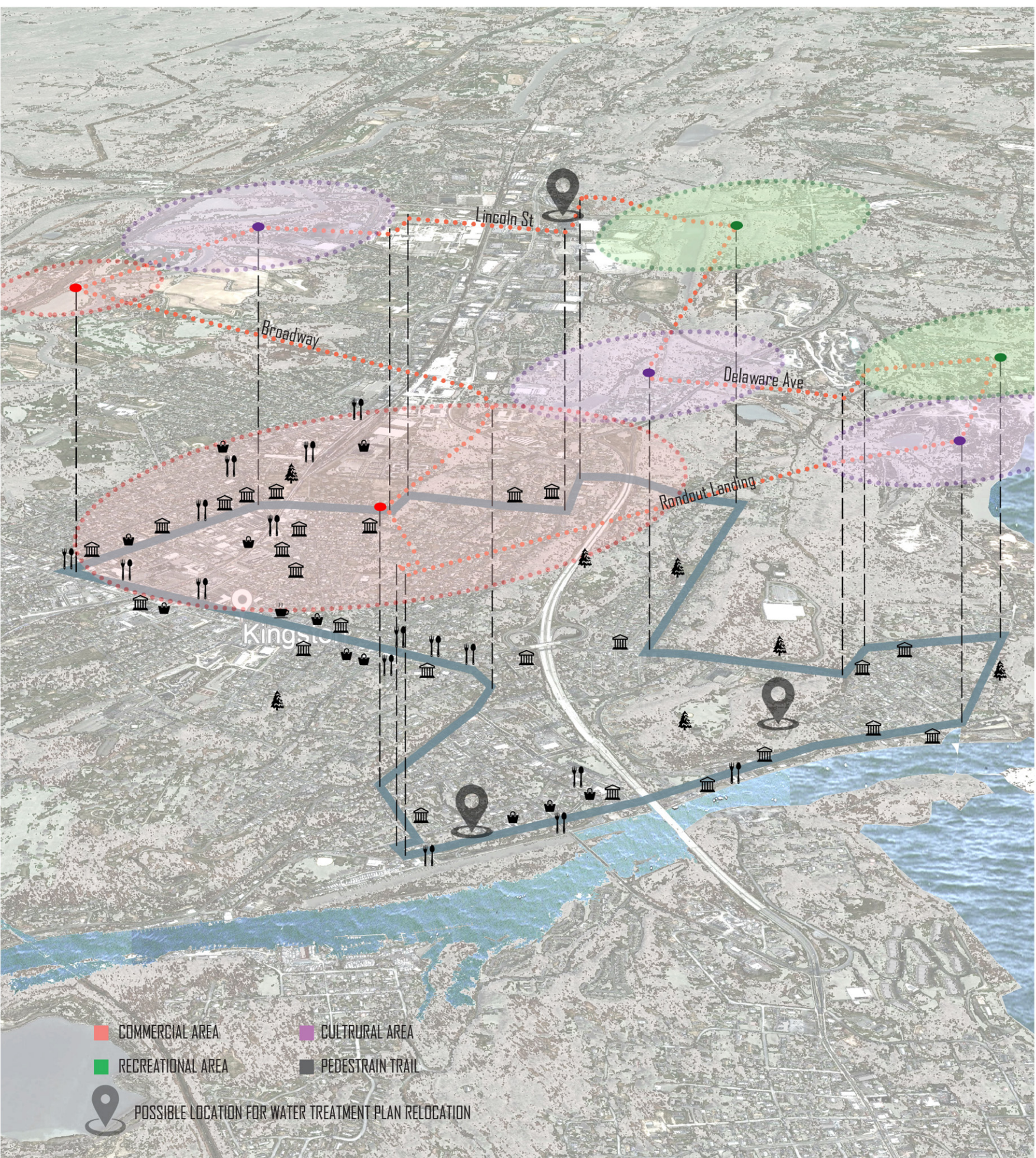
RESILIENCE MUSEUM

Kingston Water Treatment Plant is one of the most vulnerable area since its low topography. Sea level rising and high tide might cause additional maintenance fee and health issues in the future. A six-pages report that was done by design group explained why it has to relocate, where it could relocate and advantages and disadvantages of optional location.

The walls leave by removing Water Treatment Plant would become part of resilience museum park. Open space would be provided for community gathering, such as education of climate changes, movie nights, festivals or any outdoor activities could happen. It would also become parts of cultural trail. Wood deck would locate on second floor, elevator would be provided for disability, the trail could be used even during flood seasons.



RECREATION



The culture trail system could link waterfront area with upper Kingston. With a specific trail, tourists would be guided to particular direction to visit commercial, cultural and recreational areas. At the same time, daily life of local communities won't be disturbed since tourism routs are concentrated.



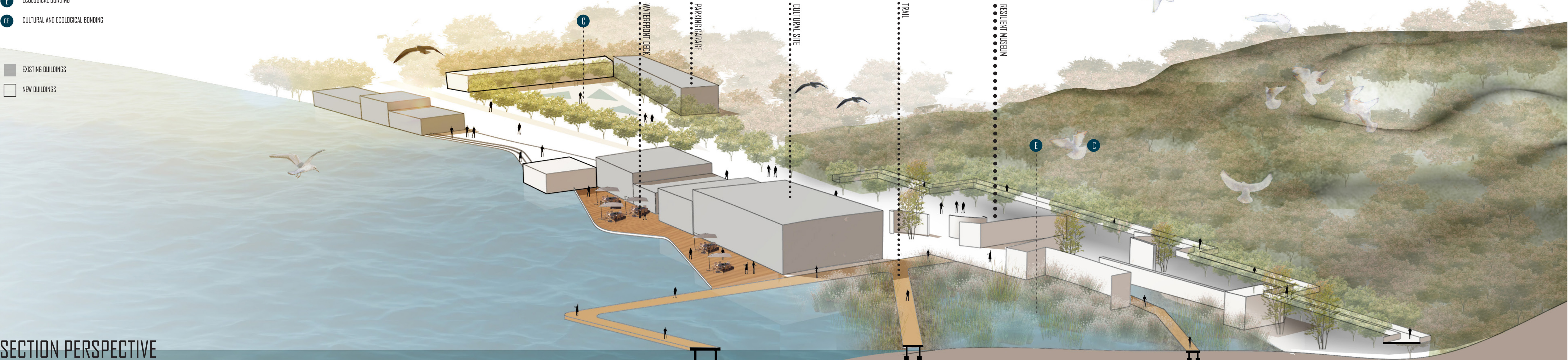
EDUCATION

CULTURAL TRAIL

CITY-SCALE CULTURAL TRAIL

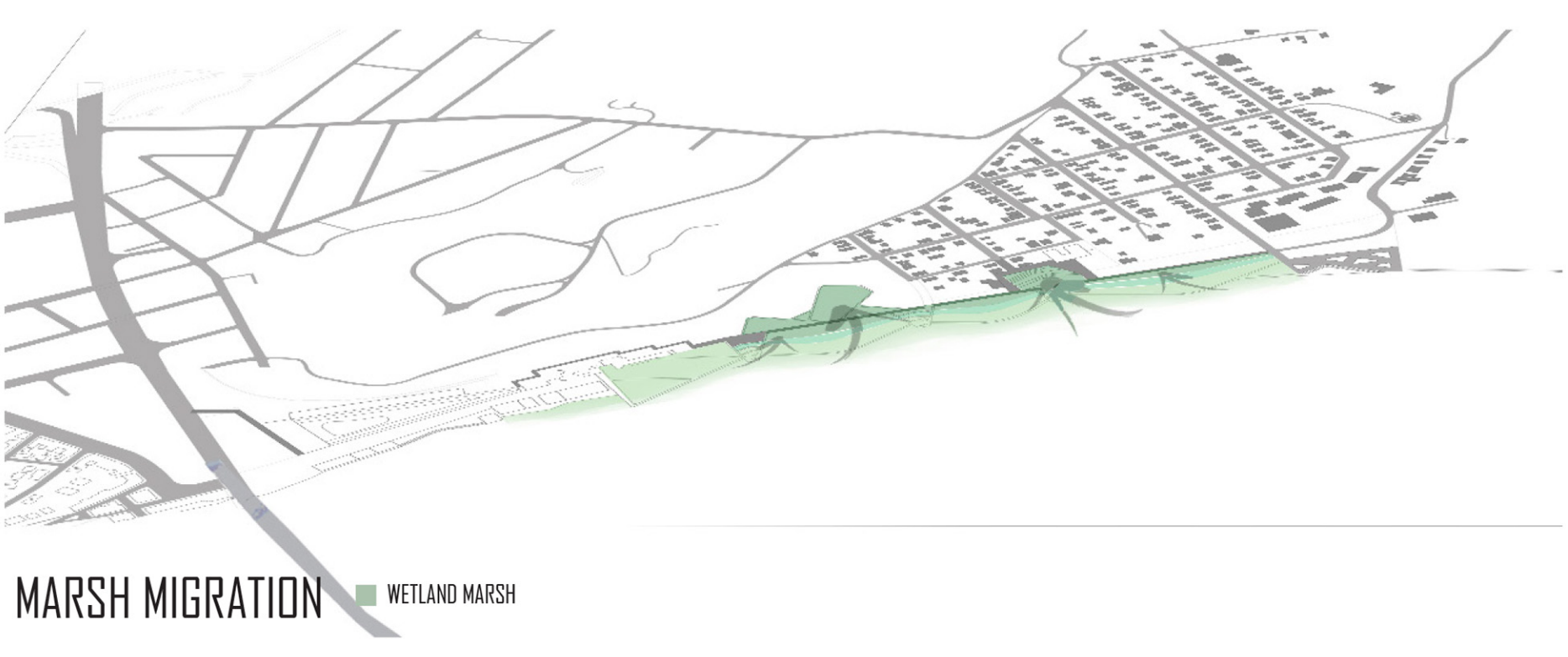
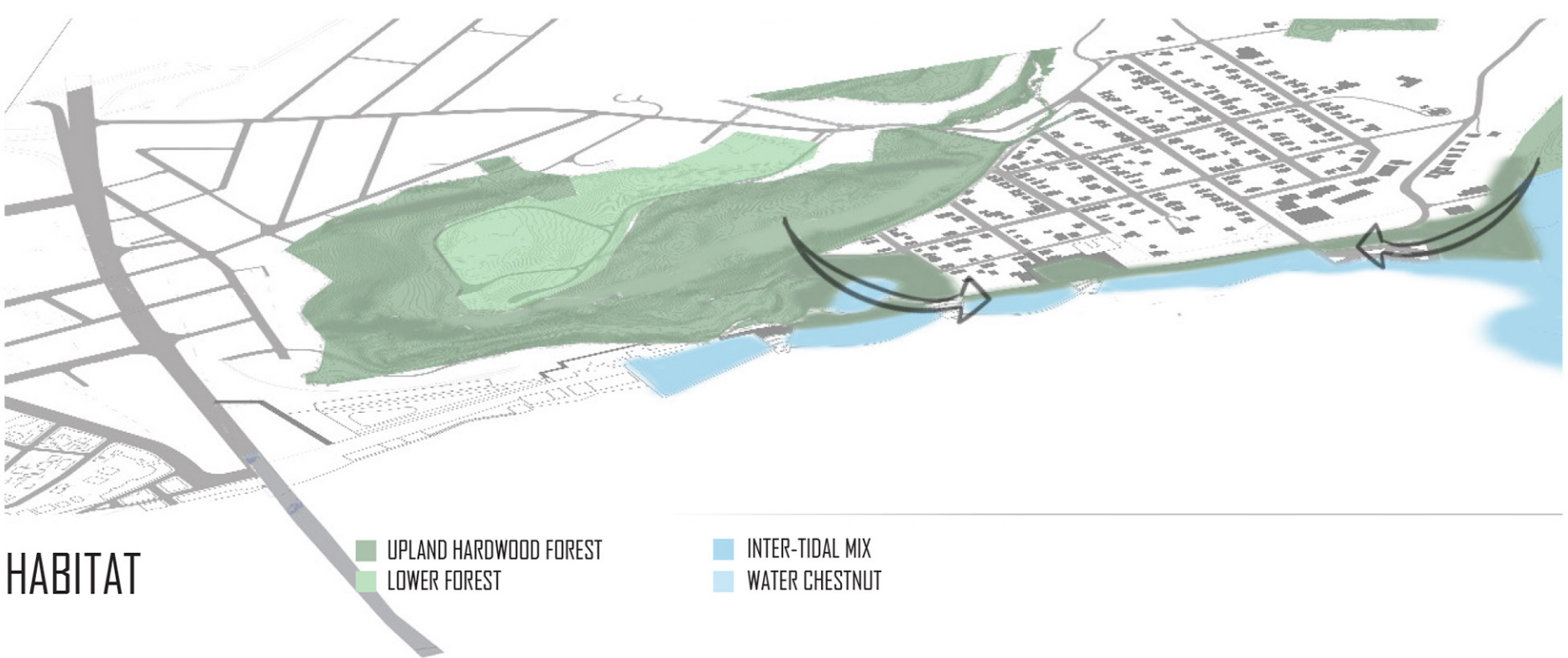
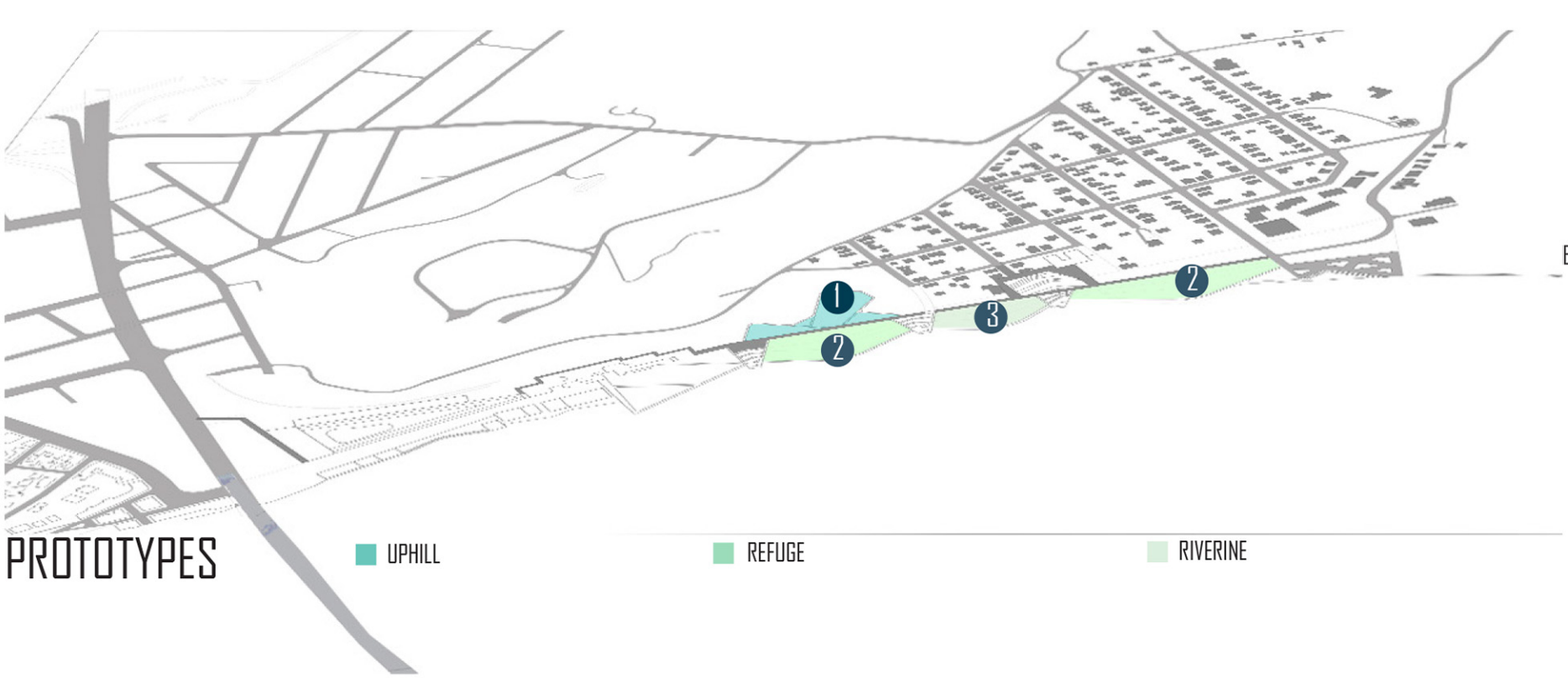
- C CULTURAL BONDING
- E ECOLOGICAL BONDING
- CE CULTURAL AND ECOLOGICAL BONDING

- EXISTING BUILDINGS
- NEW BUILDINGS

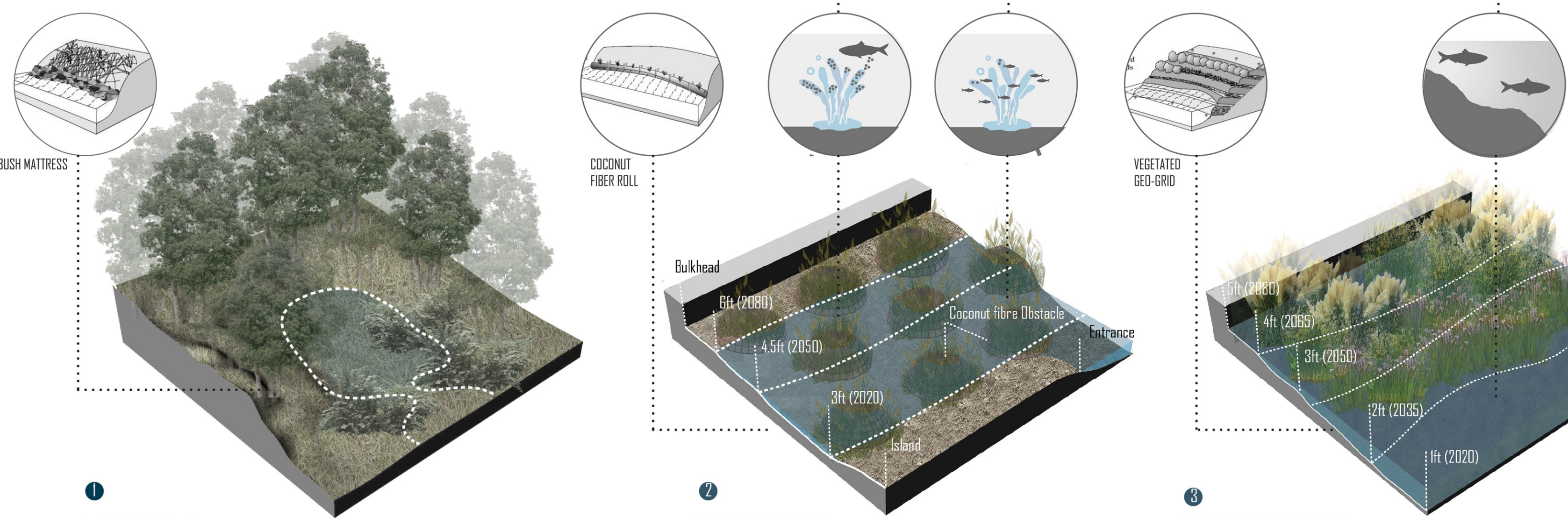


SECTION PERSPECTIVE

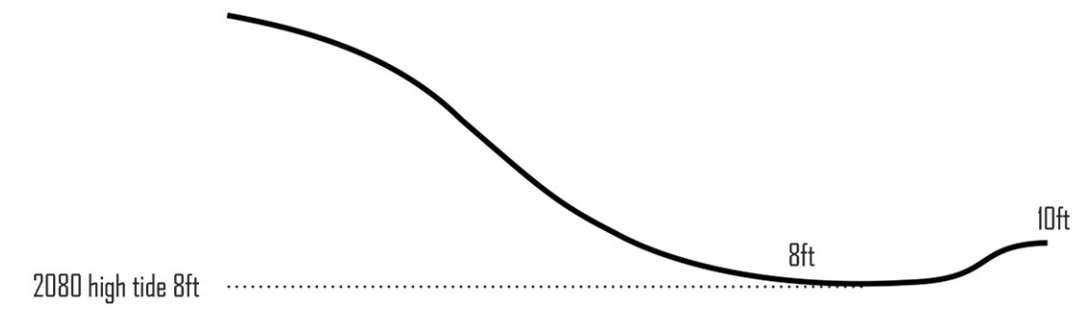
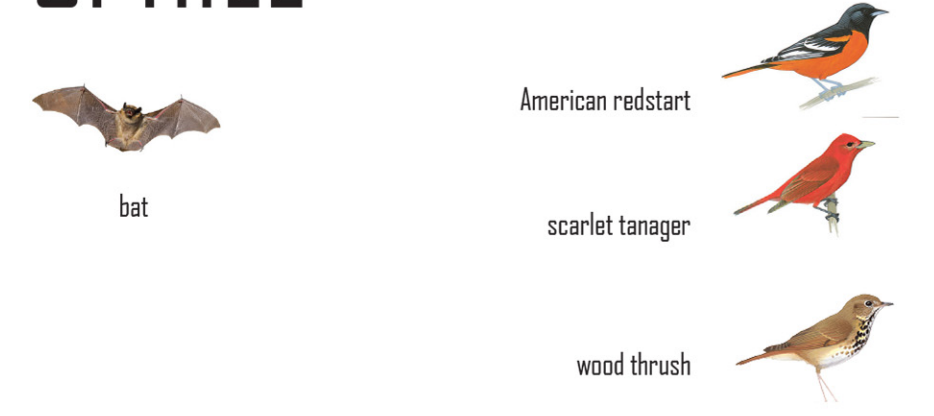
PROPOSED ANALYSIS-WETLAND



PROTOTYPES

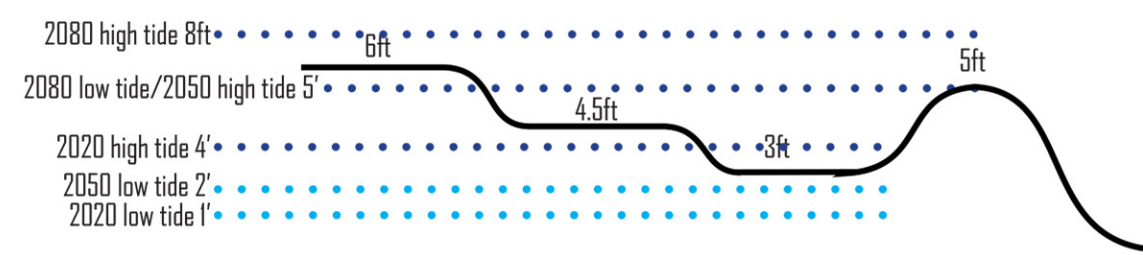
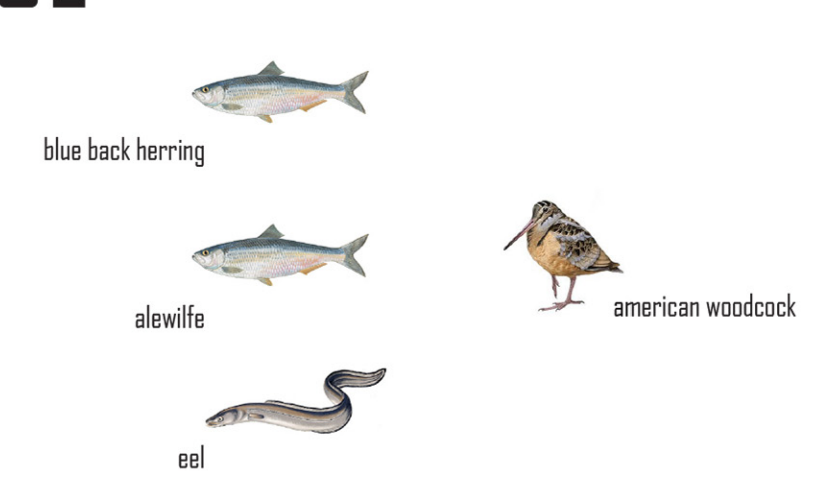


1
UPHILL



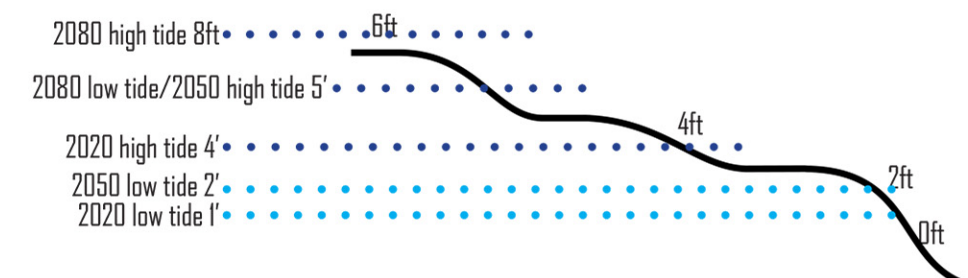
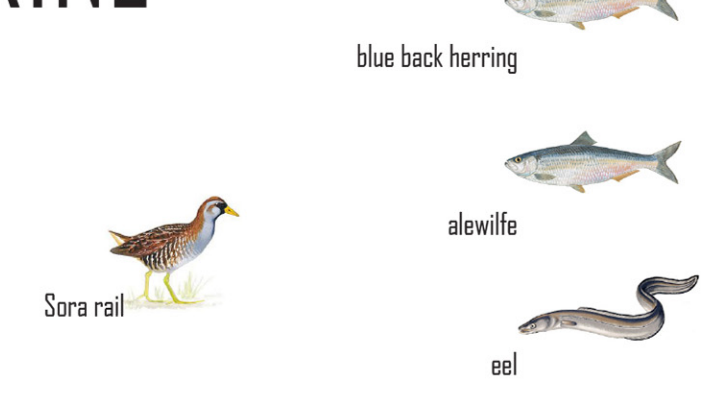
Uphill wetland is a prototype wetland for natural habitats inland. Its natural or man-made topography makes it be able to collect storm water during flood seasons. Different kinds of bird species would be attracted and shared a larger habitat with Hasbrouk Park

2
REFUGE

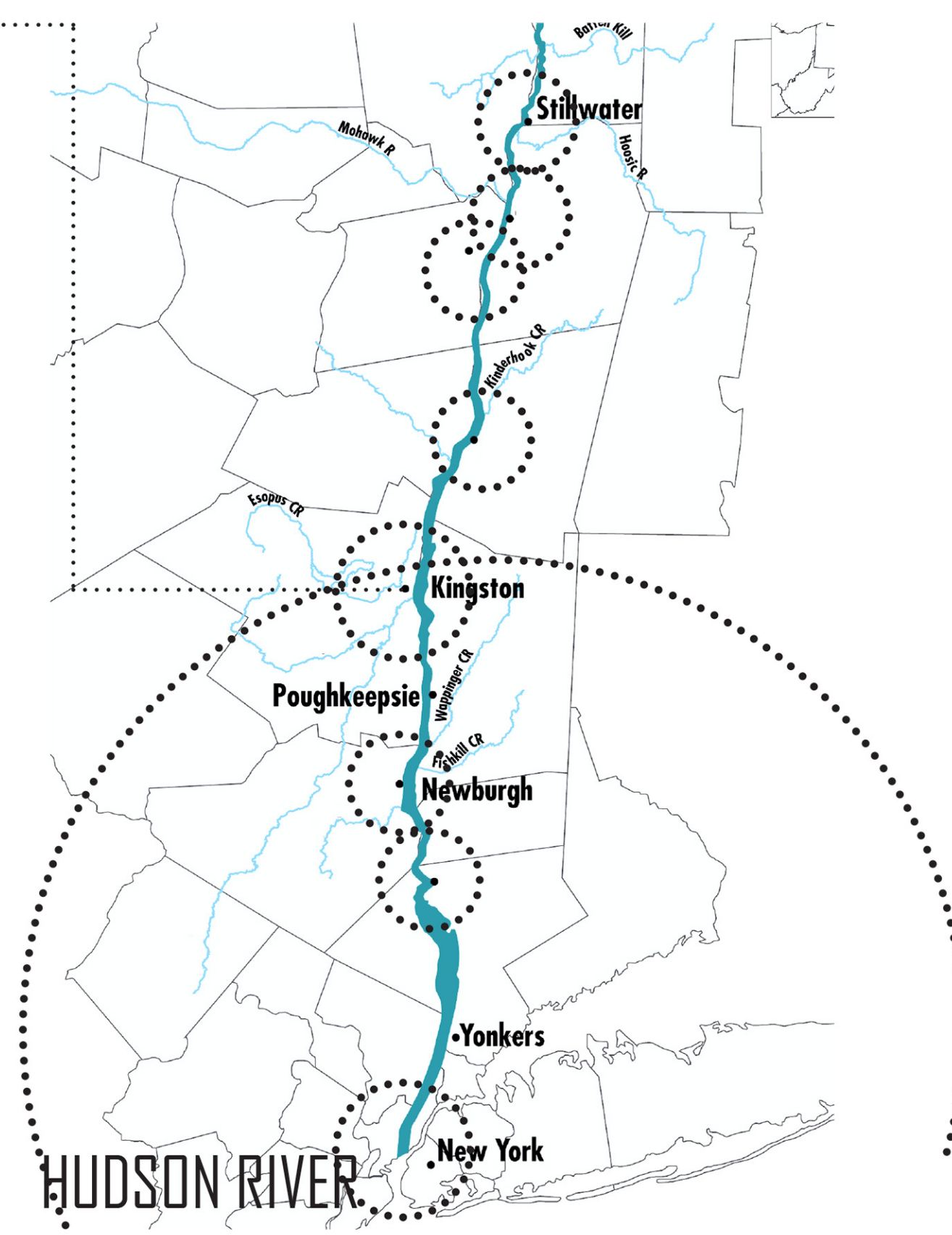


Refuge wetland is a important type of wetland that would become habitat for fish spawning area. Adult fish could come over the pocket, leaving eggs in bank shallow. Abundant plant species would be food source for young fishes and wetland birds, those plants also provide places to hide for young fishes.

3
RIVERINE

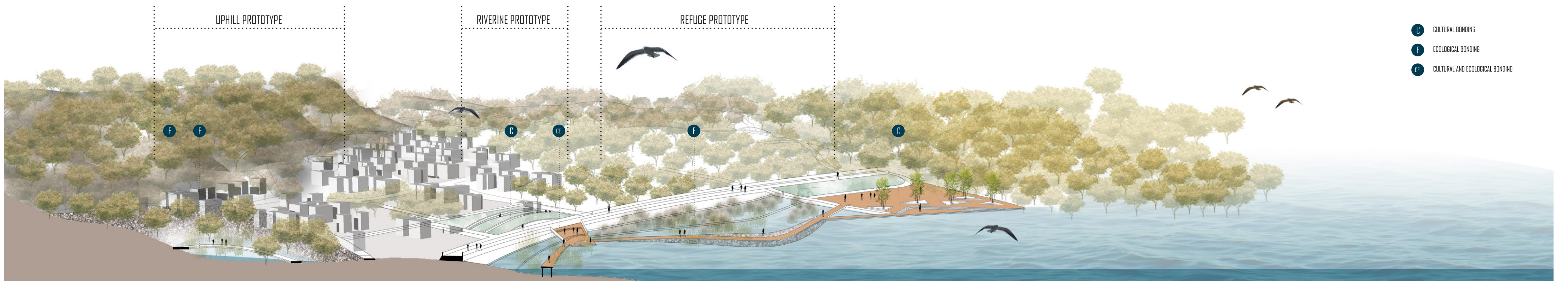


Riverine wetland is one of the most natural habitat in designed wetland. The topographic shape allow marsh and animal species migrant. Plant species located in riverine wetland would also slow flow velocity of the river.



COMPARISON OF PROTOTYPES

	UPHILL	REFUGE	RIVERINE
TOPOGRAPHY	At the bottom of a steep slope with a relatively low elevation	Step-like elevation and the island makes it like a pocket for young fish protection.	Step-like elevation helps to keep part of the water in the refuge shallow and extend the useful life.
SOIL	High in clay and silt which are easily brought by the run-off from slope	Pocket structure effectively protects the soil from losing clay and silt, which is beneficial for vegetation to grow.	High in sand because water flow brings away clay and silt.
HYDROLOGY	Influenced by storm water run-off are occasionally high tide in 2080	Influenced by tides and sea level rise. Water velocity is relatively low because of shallow water and ob-stables	Influenced by tides and sea level rise. Water velocity is relatively high.
BIODIVERSITY	Mainly mammals, reptiles and birds. Because of south facing, plant diversity is also abundant.	Refuge for small fish and spawning adult fish. Also habitat for birds and buffer zone for migrating wetland plants.	Habitat for birds and buffer zone for migrating wetland plants.



SECTION PERSPECTIVE