

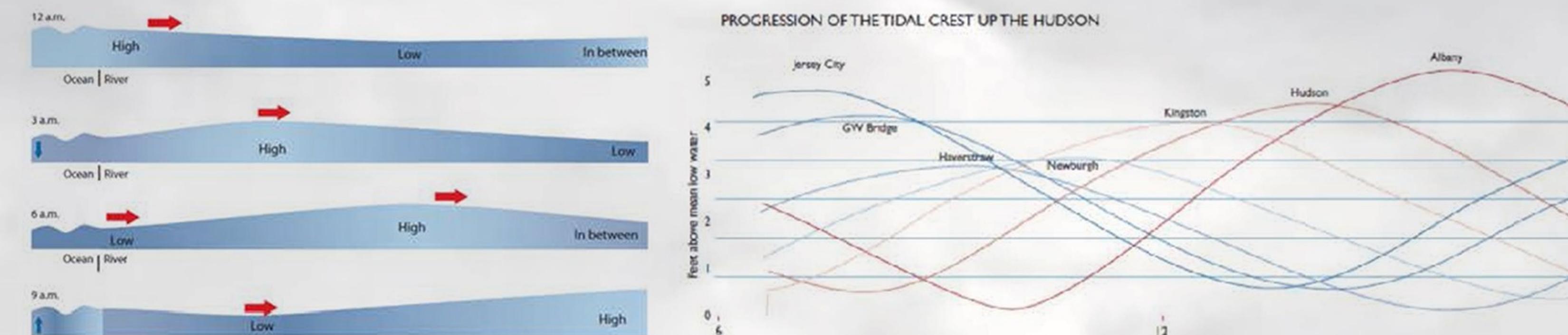
Marshland Horizon

What is Tide

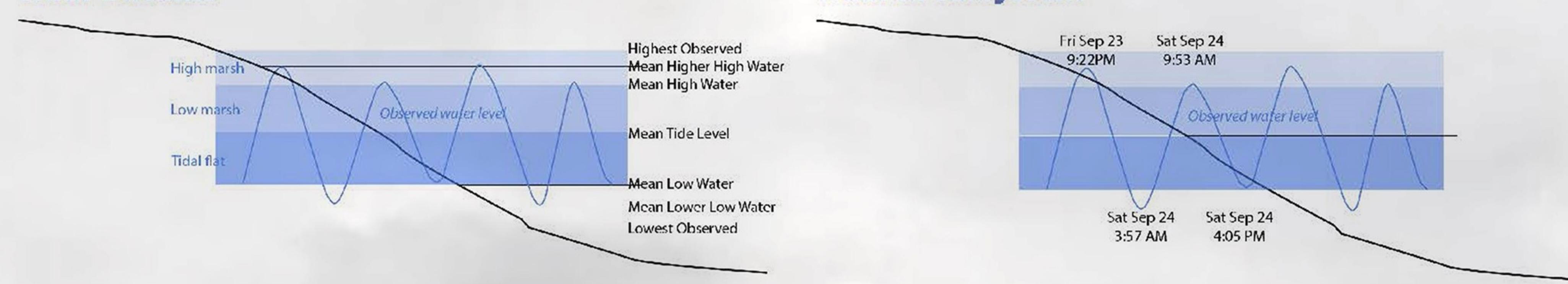
How is tidal formed:

They are caused by the pull of the moon and the sun on the water in the open ocean; they go up and down about twice a day, with high water coming about 6 hrs and 18 hrs after the moon is at its highest; and they have a regular but complicated shape that results from superimposing roughly 65 simpler tidal waves.

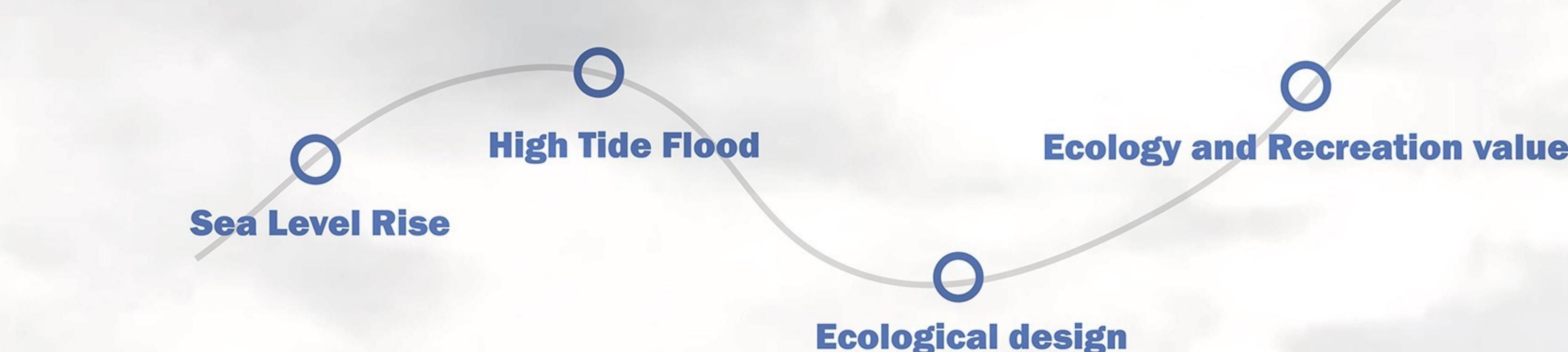
The tide producing force depends on the position of the sun and the moon. It is greatest when they are in line on the same side of the earth; less when they are in line on opposite sides;



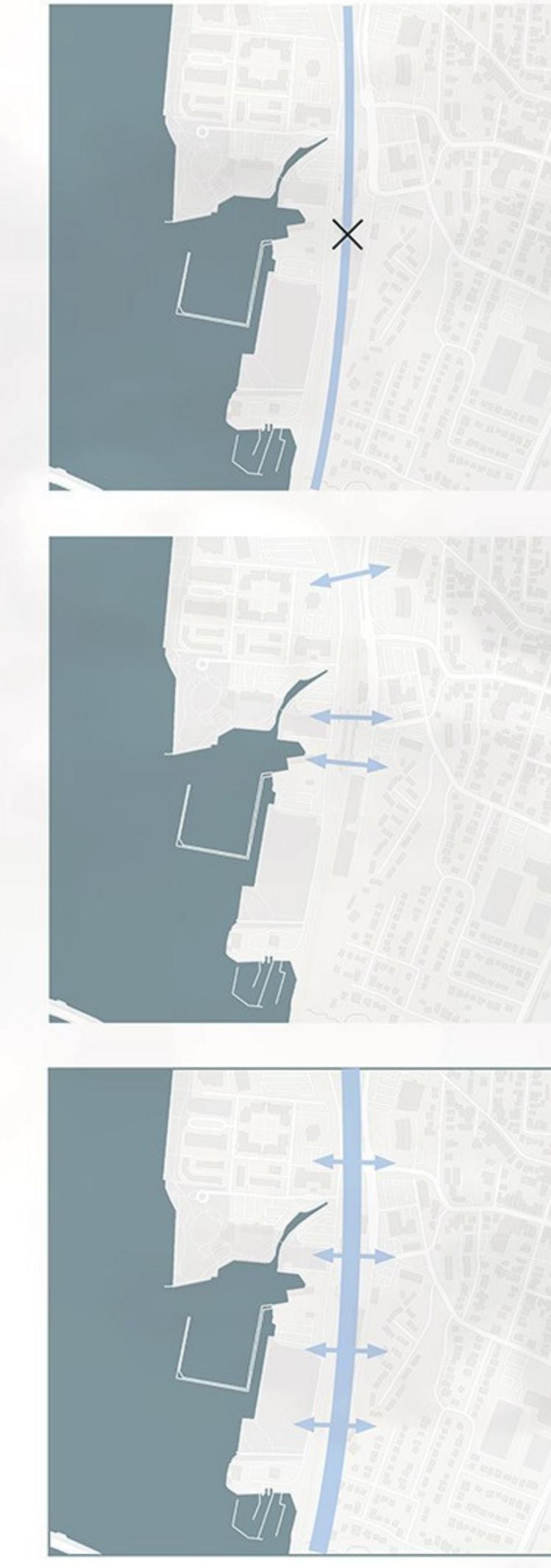
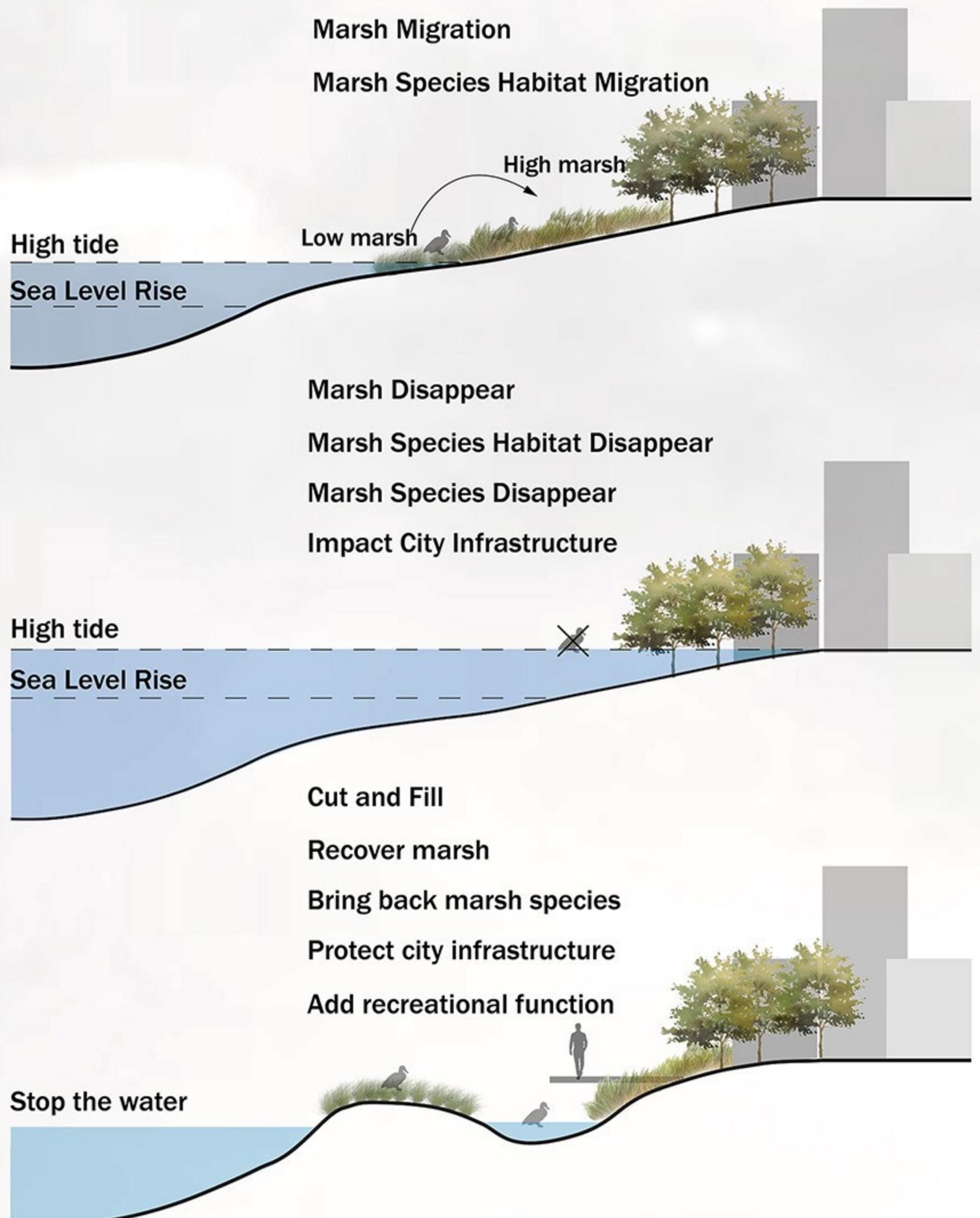
Tidal Datums



Concept



Issues and possible strategy



Lack of connection
The current railway station cut the connection between the waterfront area and franklin court.

Lack of connection
The existing connection is the H bridge and the bridges in the train station.

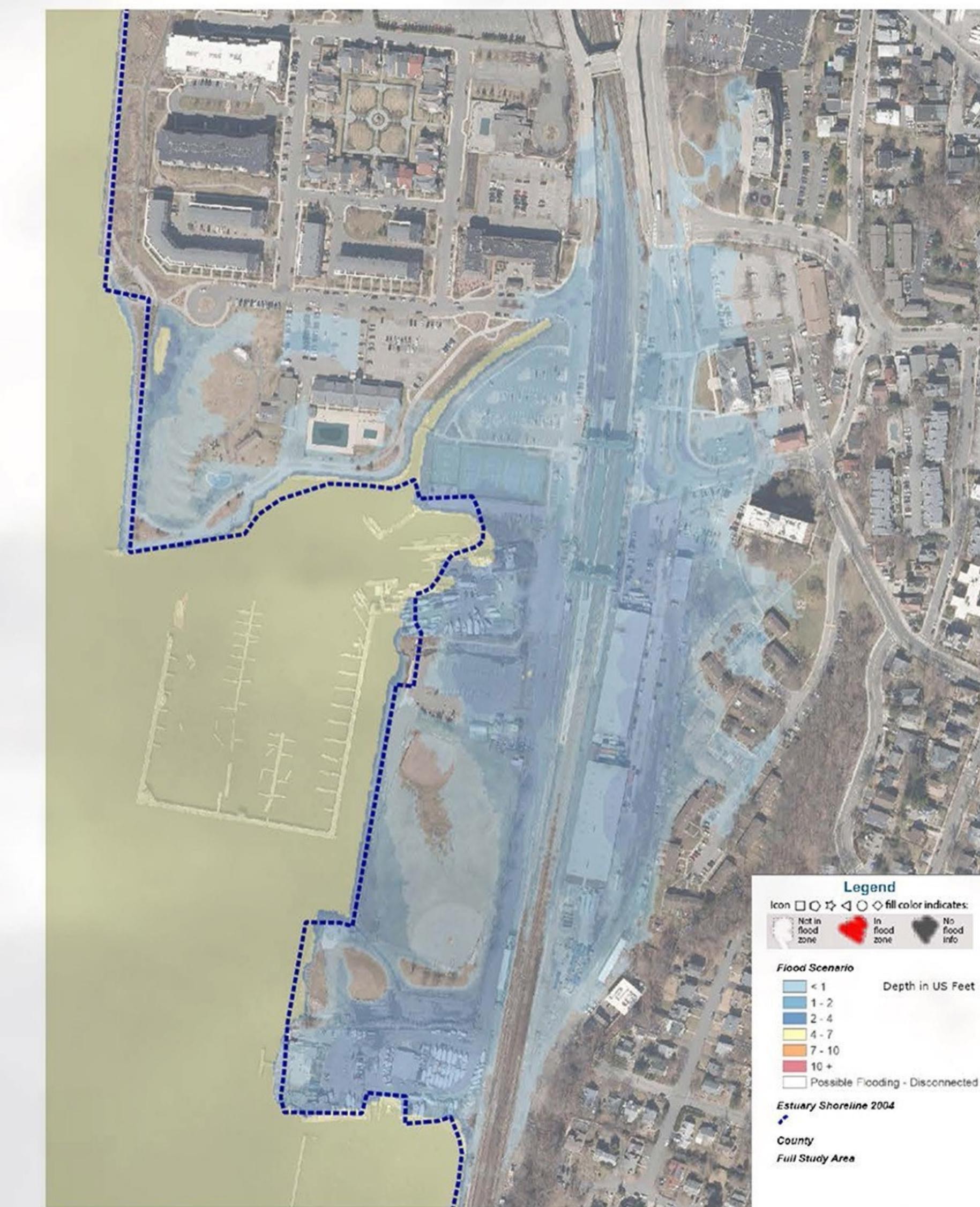
Build the connection
Build a structure that connects both areas.

Sea Level Rise Inundation Map



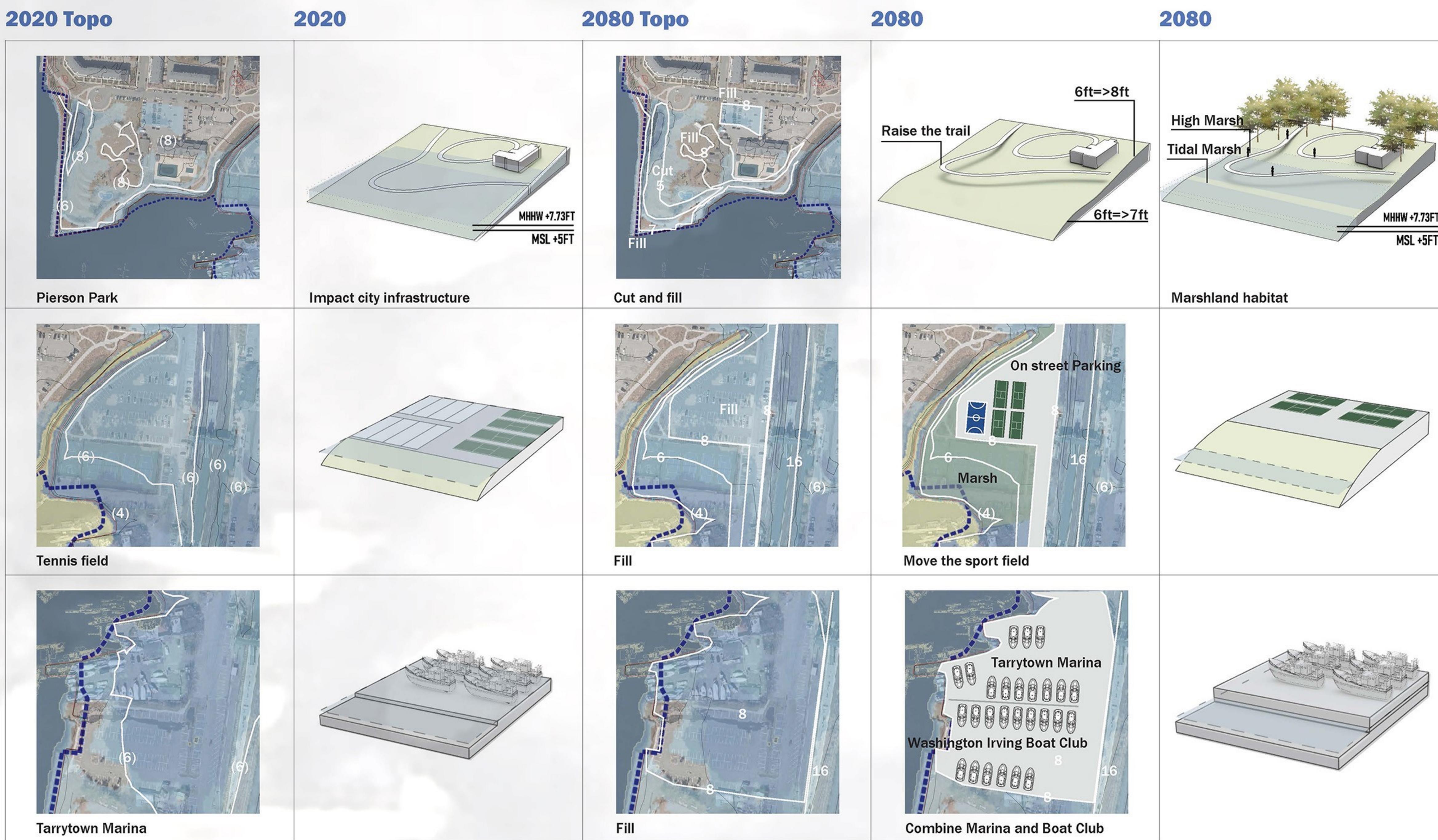
Source: 2050 2.5ft Sea Level Rise Map.
Mapped Elevations are at MHHW.
Actual sea level on map: $2.5+2.73 = 5.23$ ft

Source: <http://www.ciesin.columbia.edu/hudson-river-flood-map/>



Source: 2080 5ft Sea Level Rise Map.
MHHW in 2080 = $5+2.35 = 7.35$ ft (Twice a day)
Mapped Elevations are at MHHW.
Actual sea level on map: $5+2.73 = 7.73$ ft (Once or twice every year)

Design Strategy: Cut and Fill





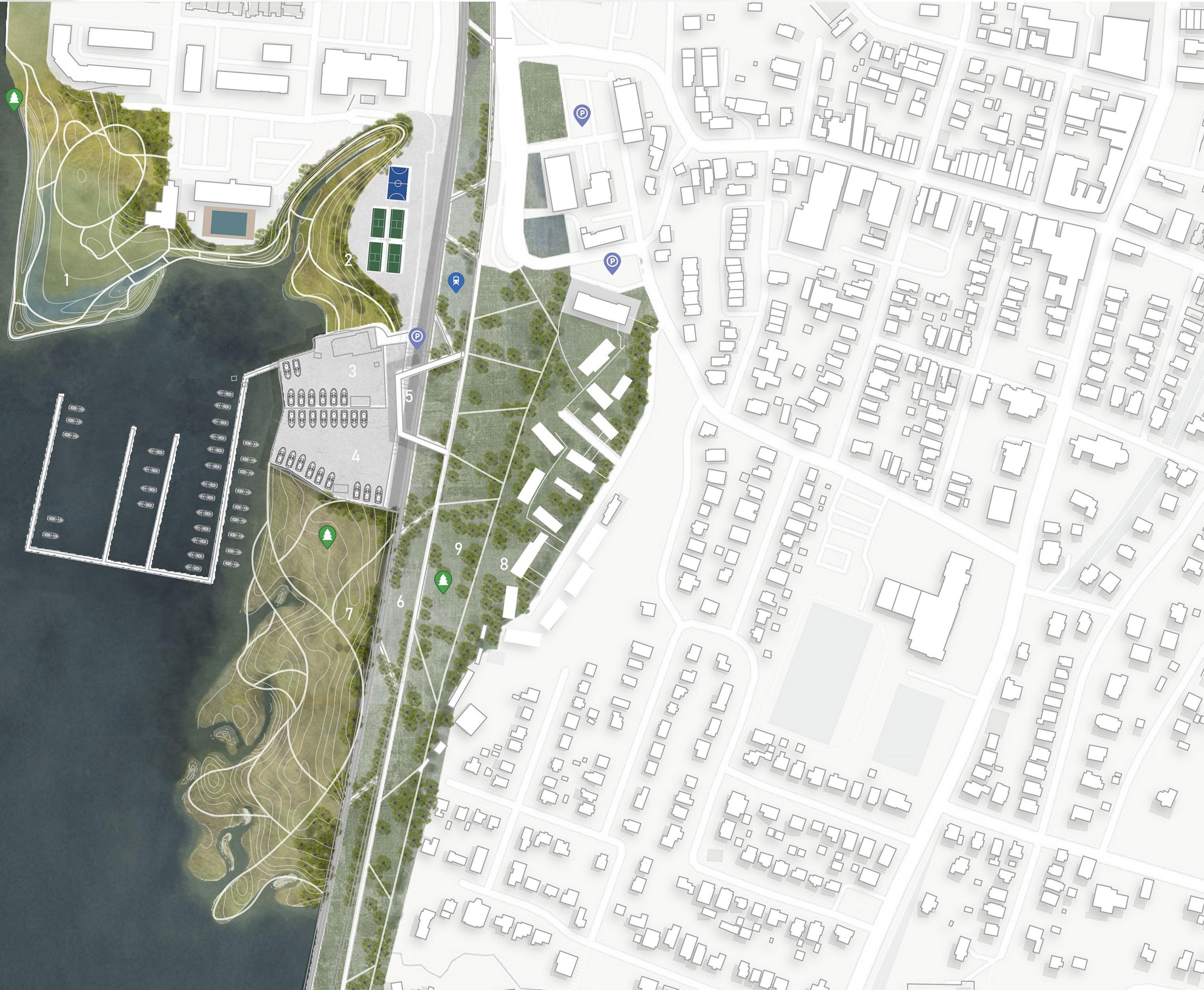
0ft

200ft

400ft

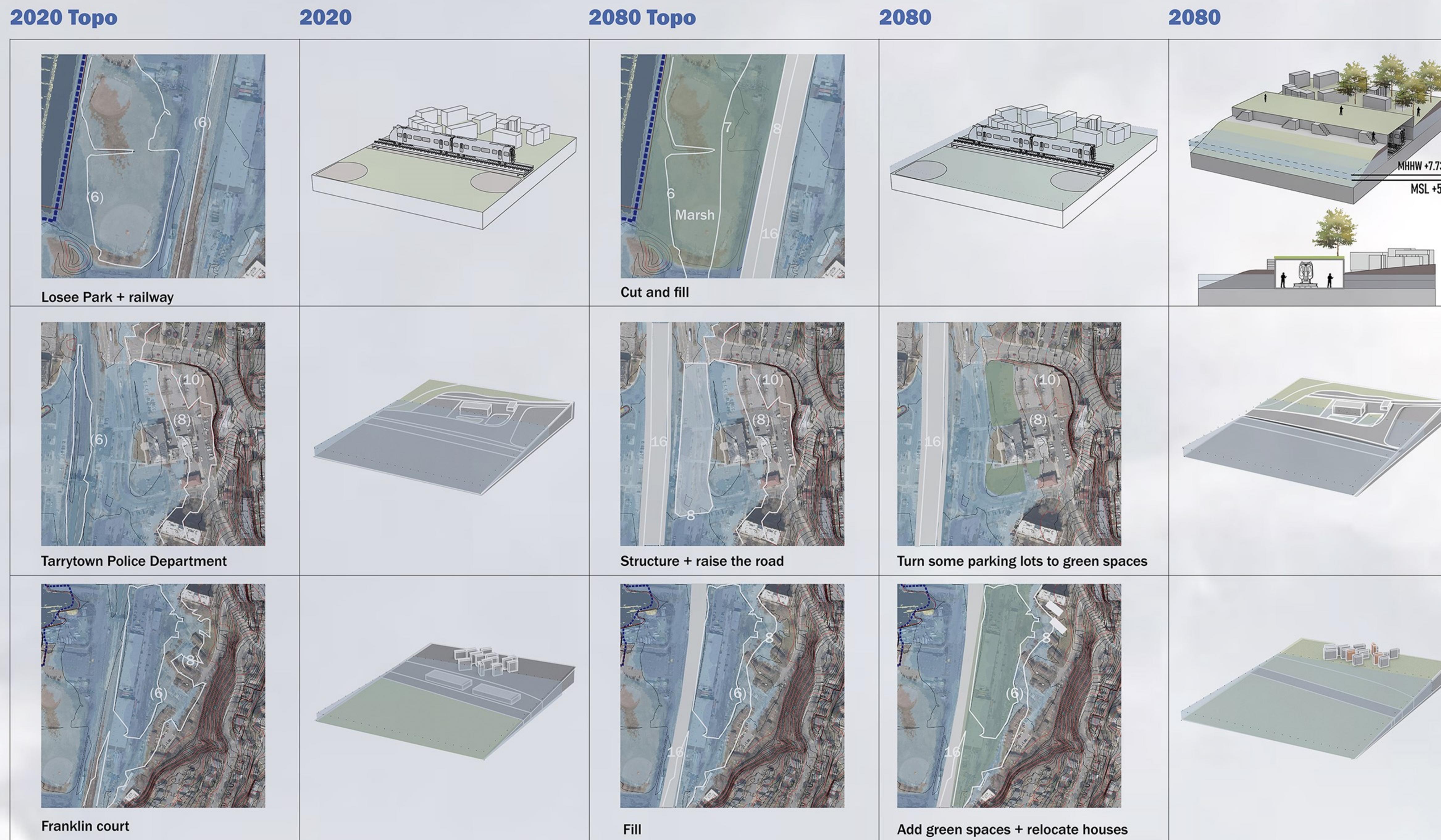
600ft

1. Pierson Marshland Park
2. Sport Field
3. Tarrytown Marina
4. Washington Irving Boat Club
5. Street Parking
6. Tarrytown Train Station Park
7. Losee Marsland Park
8. Franklin Court
9. Franklin Court Park



Marshland Horizon

Design Strategy: Cut and Fill



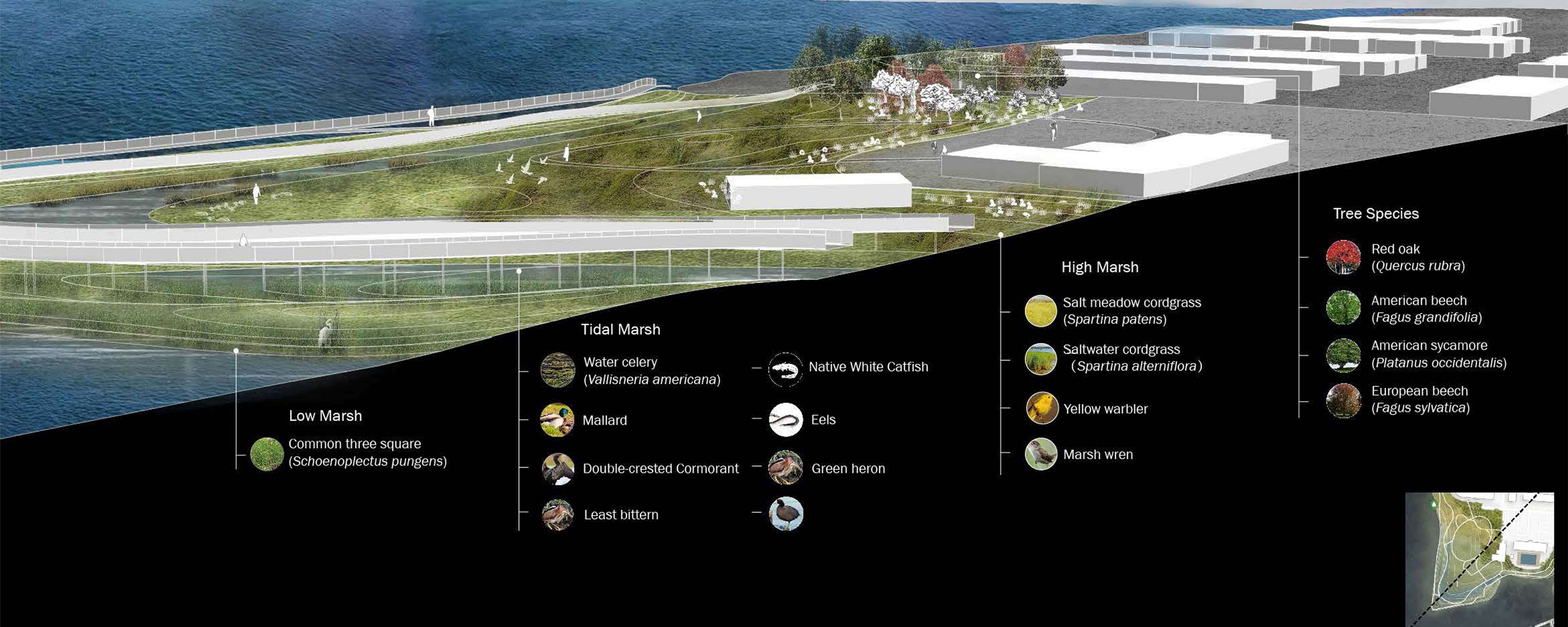
Concept



Franklin Court Park



Pierson Park Section



Losee Park + railway station

