LIVING OVER THE SEA

A Barrier-Building Complex

Jamaica Bay is the lowest area located within New York City limits. It is also home to approximately 130,000 people. During Sandy, most of the area flooded with some locations receiving locally more than 10ft.

This design proposal features a regional approach that is to be implemented in phases. Similar to how the Delta Works started with small projects and progressed in later phases with the larger Eastern Scheldt and Maeslant barriers, this proposal starts with slacks along the Rockaway Peninsula and the shallowing of the Rockaway Inlet. Also included in the phase is the suggestion of more robust building codes to further combat future storms. A second phase would be constructing slacks from the inlet northward to the higher area of Brooklyn adjacent to Floyd Bennett Field. The last phase would be building a barrier across the inlet and inhabitable slacks across an additional inlet on the Rockaway Peninsula.

This barrier building complex is located on the new inlet of Rockaway Peninsula in the south-east of New York. The area is very vulnerable to the storm surges and floods due to its location and its geological features. The area is relatively poor with insufficient flood safety supports and thus was one of the biggest victims after the Sandy Storms.

The proposal the designer is doing right now is one of the solutions to improve the safety of the coastal line alone the beaches and its extension to the bridges and communities. Furthermore because of its architectural interventions, this proposal is trying to add value to the barrier and to create new possibilities for the future development of the area. For example the barrier is combined with the dwellings, commercial areas, waterfront public spaces to activate the social activities and economy re-prosperity.

Civil Engineering Proposal: Risk Reduction System for the Whole Watershed

Space Designer Involved in: To Reform the New Connection over the Inlet

Fascination: A combination complex

- Civil engineering + Transportation + Architecture + Nature
- Surge barrier + Bridges + Buildings + Sea