BlueWave | Micro-Connectivity

Networks of the Flood Resilient Urban Landscape
LDA 164 | Kongkan Ratkar

Project Overview: The flood resilient urban landscape is designed to be the water crisis resilient city of the future. It is considered a potential transformation hub with new urban development of the future. With ongoing transformation and growth, the goals of this project are to re-engineer and reposition the existing site condition to highlight the changes of its surroundings, especially along the Singapore Riverfront zone ensure micro-connectivity networks with a level of precision that was previously lacking with the site through the understanding of different functionality and human networks on site and at surrounding. Second is integrating flood resilient urban landscape and water management as part of the design and layout to increase the evaporation rate for the town elevation sides.

Major Circulation + Connection

The site is transformed to a public park that is tri-modal access via a network of water transfer systems. The park is a multi-level structure that supports public transportation and multi-community networks which is interconnected with the surrounding urban neighborhoods and social networks through the use of different terrains for different parks as they navigate the site with water and streets throughout the site.

Street Types + Urban Fabrication

The open section of urban fabric will be oriented to part of the site to promote social interaction and high density. The space will be oriented to part of the site to promote social interaction speed and high-density urban living.

Water Transferring Diagram:

Inlet
Outlet

The water section of urban fabric will be removed to part of the site to promote social interaction and high density. The space will be oriented to part of the site to promote social interaction speed and high density urban living.

Major Plan / Activity on Site

1. Brickelle Bridge
2. Brickelle Gateway
3. Brickelle Commercial Zone
4. Taboon
5. Sport Field
6. Railway Parking
7. Ski Park
8. Waterfront Park
9. Singapore Riverfront
10. Retail Market
11. Commercial Alleyway
12. Priory Office Complex
13. Pedestrian Central Road

Document: Flood History

1. Historical Flood Record
2. Topography Map
3. Site Plan
4. Section Cut
5. Plan View
6. Plan View with Water Transfer System
7. Plan View with Urban Fabrication
8. Plan View with Water Transferring Diagram
9. Plan View with Inlet and Outlet
10. Plan View with Street Types and Urban Fabrication
11. Plan View with Major Plan and Activity on Site