

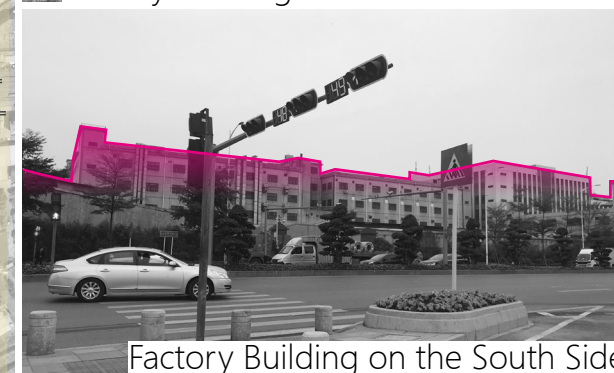
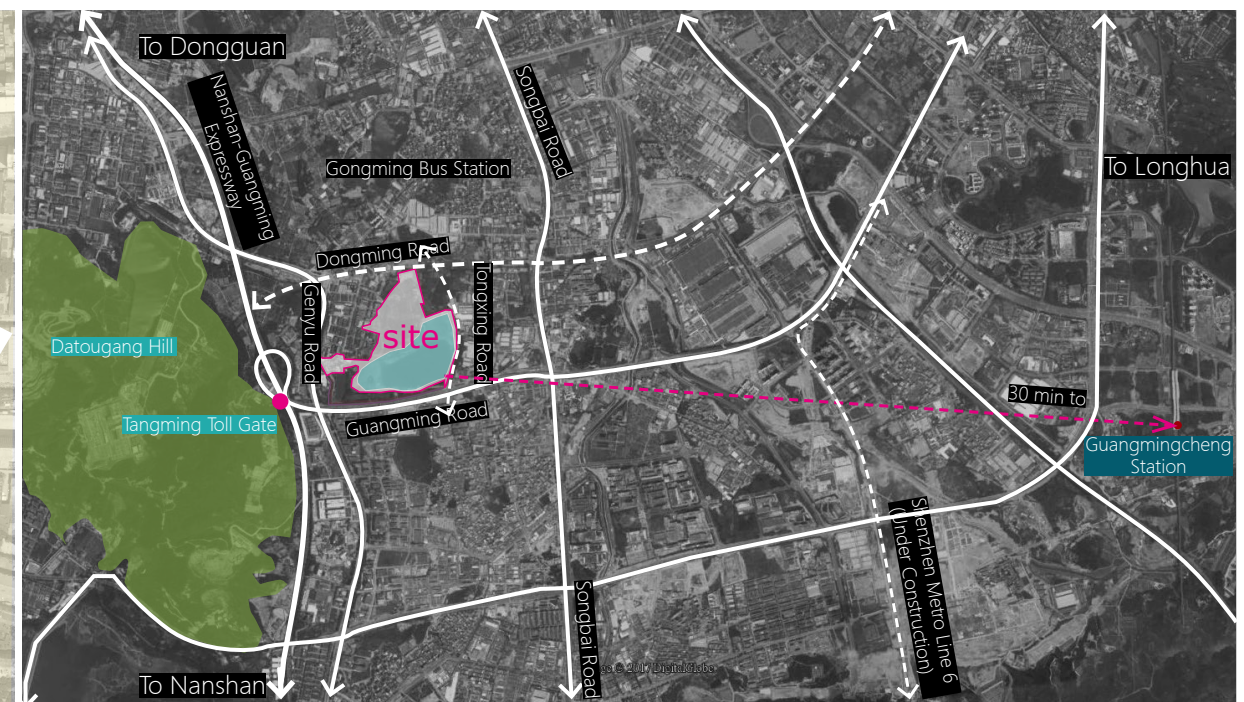
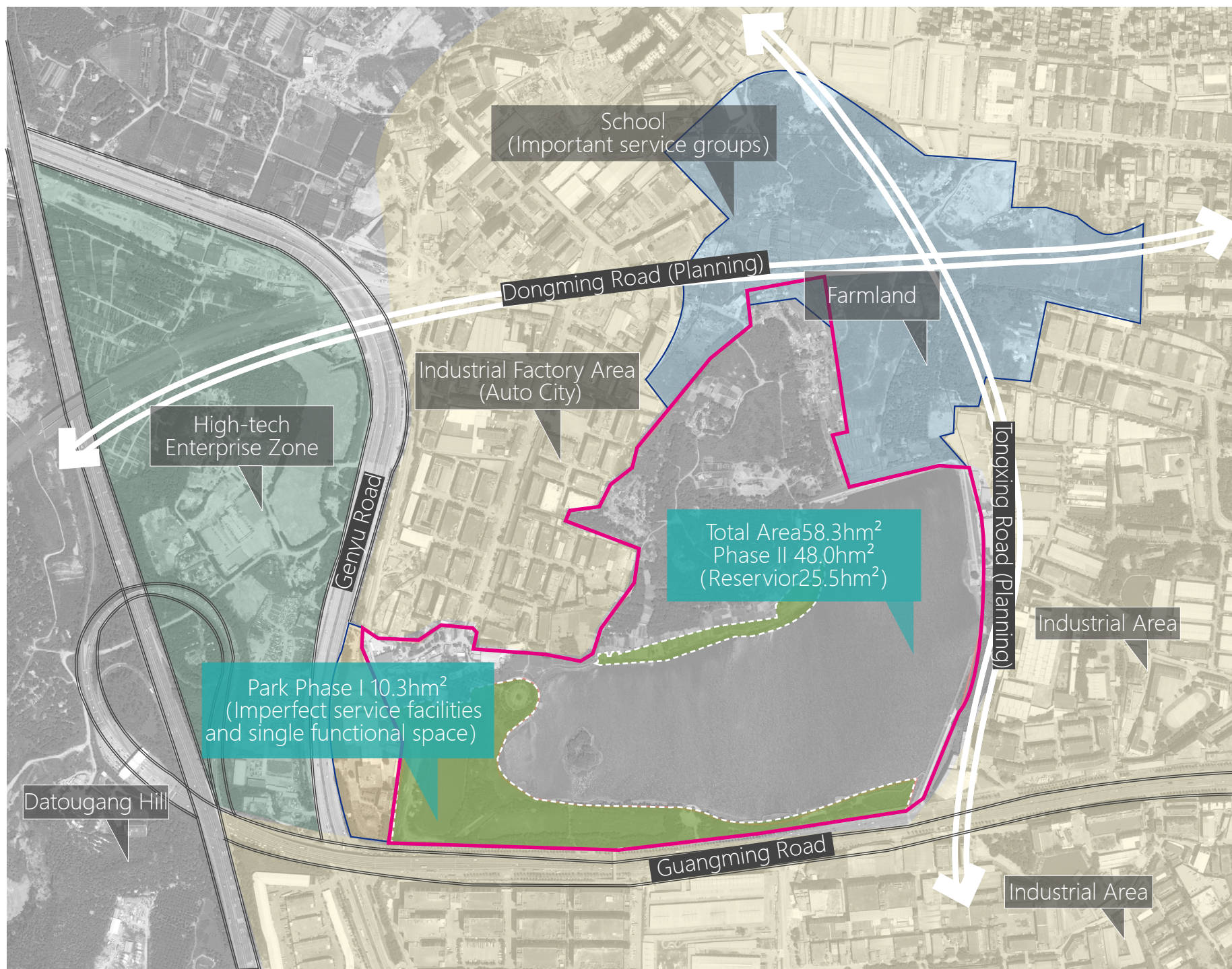


Shenzhen Minghu Park - Resilience Design and Art of Omission

Guangdong, China

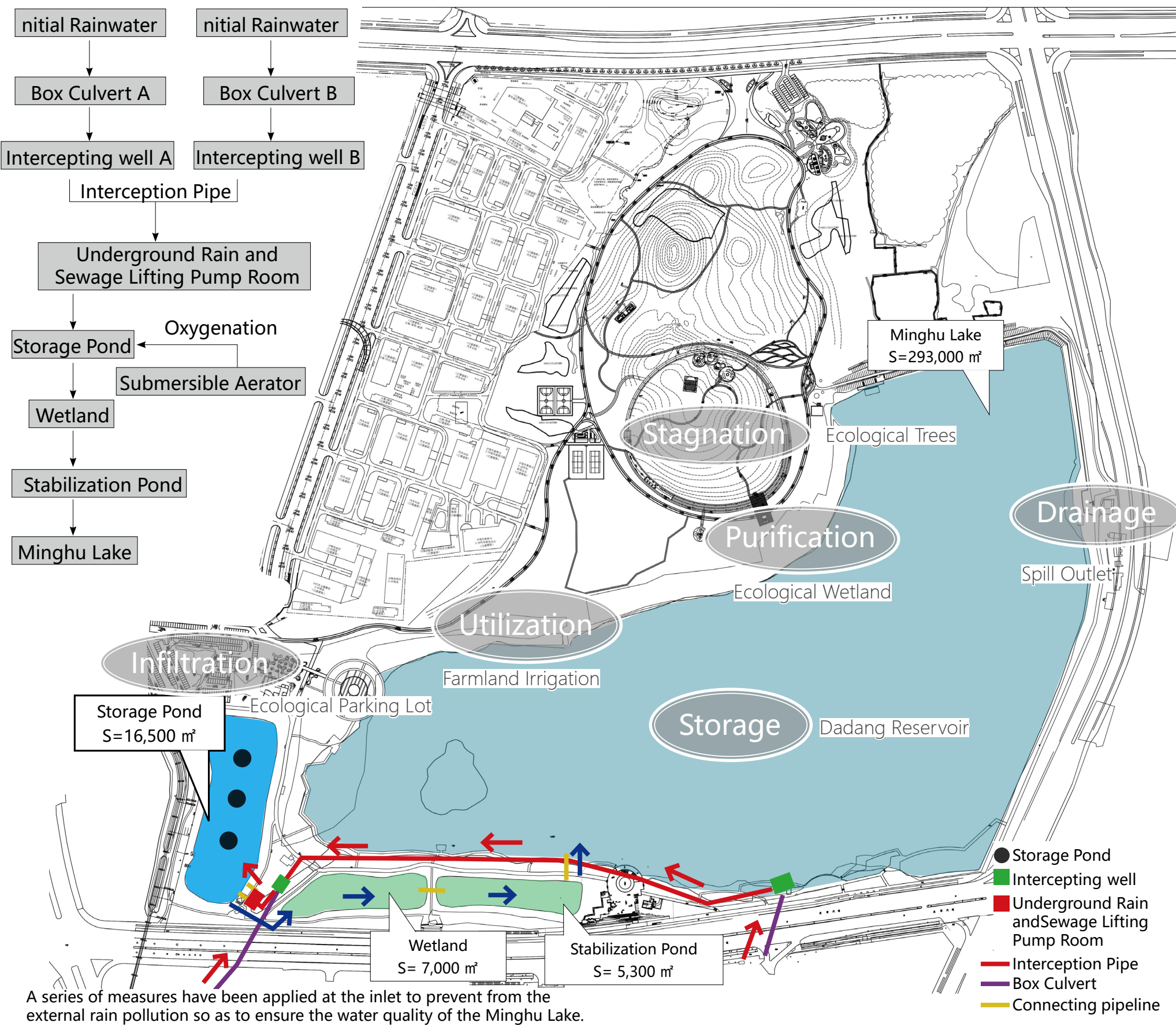
Project Statement

Minghu Park, situated in the south of Guangming District in Shenzhen, boasts a vast area of 596,000 square meters, making it one of the few parks in the city with the large area. It encompasses a land area of 306,000 square meters and a vast dam reservoir of 290,000 square meters. Additionally, it is also the first municipal park in Shenzhen with an automobile theme. The park aimed to be a high-quality citizen park. It features several elements including mountain, water, forest, lake, lawn and sand. The Sunshine Lawn has gone viral on social media platforms as a popular destination for camping and as a nice option for families to visit with their kids.



Create a new green heart of the community, a new regional portal, and a new business card of the city

The project is located in the urban ecological corridor of Guangming District, Shenzhen. The site features perfect layout of mountains and lakes, and convenient traffic. However, the surroundings of the park are industrial areas, where the environment is messy. The facilities and functions of the first phase of the park are not perfect, and there is an urgent need for open space.



Resilience Design - Reshaping Ecological, Healthy and Vibrant Public Spaces

Before construction, there was a large amount of abandoned green land, which resulted in ecological crises such as the soil erosion caused by the bare land, cultivation and fertilization, and the invasion of alien species. Farmlands were near river, and the spreading of chemical fertilizers caused a problem of persistent organic pollutants, resulting in poor water quality in the reservoir. In order to solve the ecological threats, designers adopted sponge facilities with the functions of "infiltration, stagnation, storage, purification, utilization, and drainage" to achieve the absorption, storage and reuse of rainwater on the site; the sponge facilities were organically combined with the rainwater pipe network. The Dadang Reservoir was rationally used as a regulation and storage facility to achieve the goals of natural storage, natural infiltration and natural purification of rainwater on the site.



Sponge City Measures

The project uses a variety of sponge facilities with different functions to improve the ecological environment of the park.



Infiltration -
Ecological Paving



Stagnation -
Ecological Trees



Purification -
Ecological Wetland



Purification -
Rain Garden



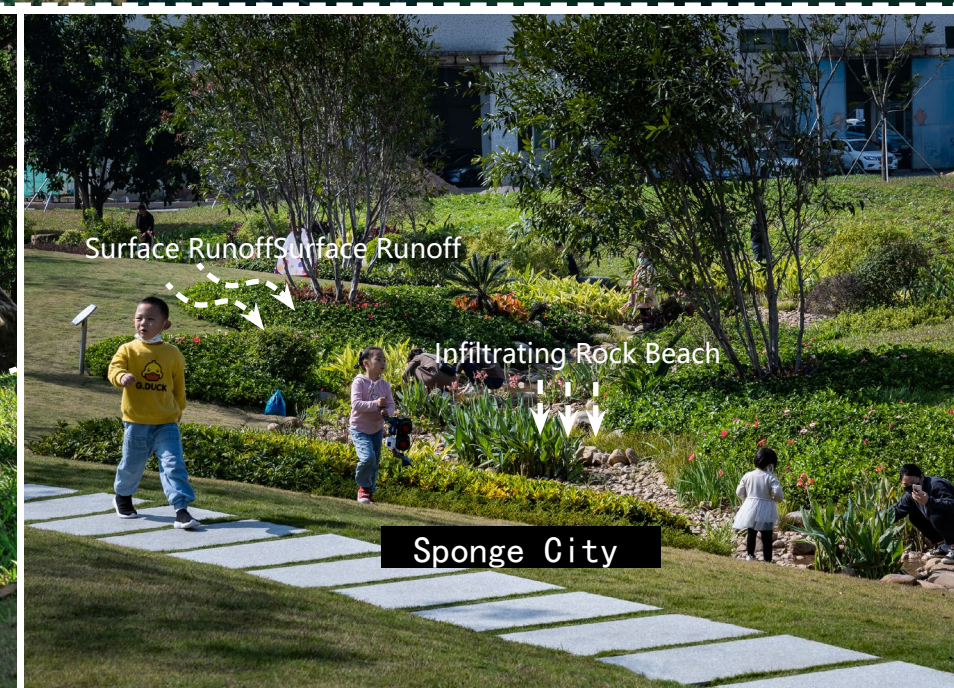
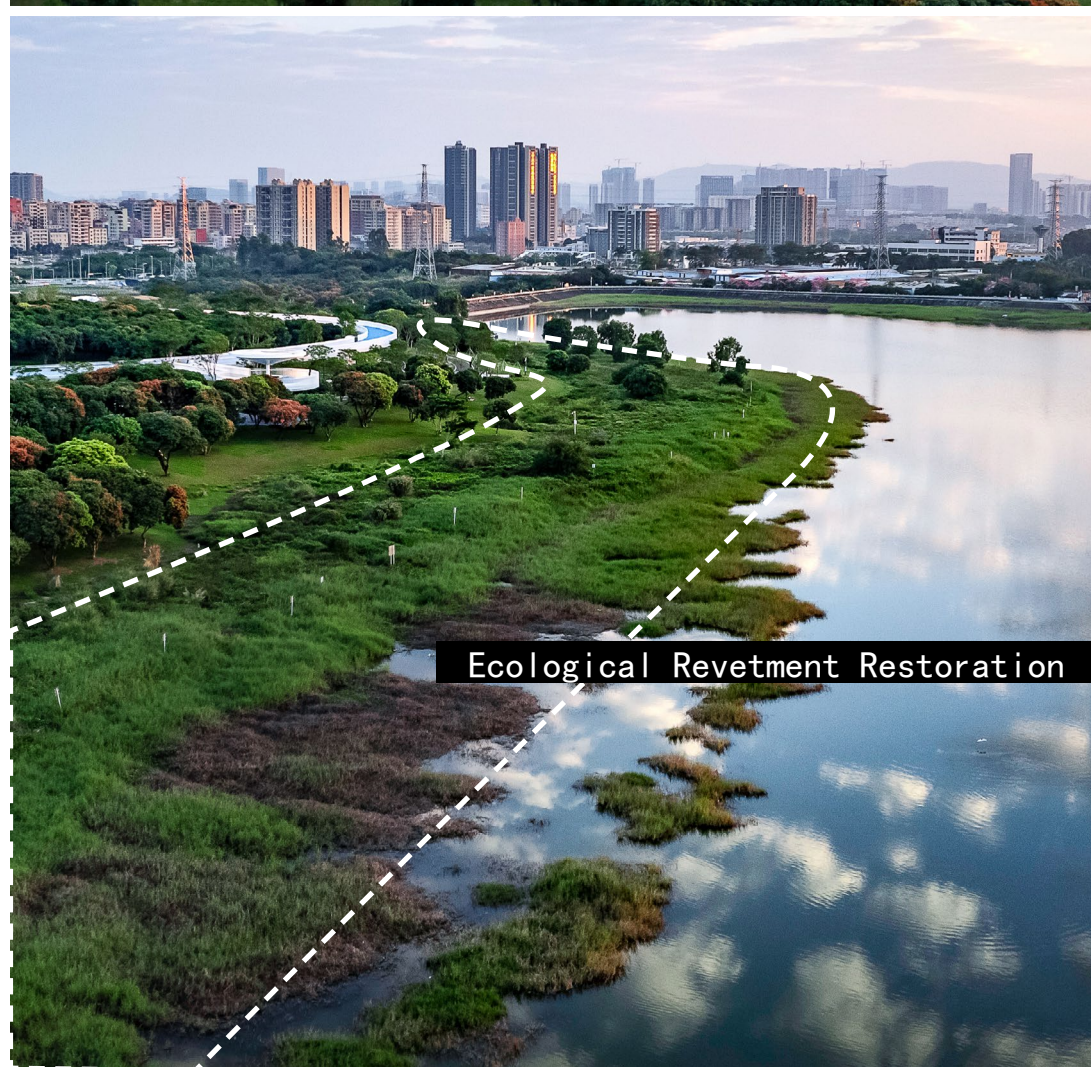
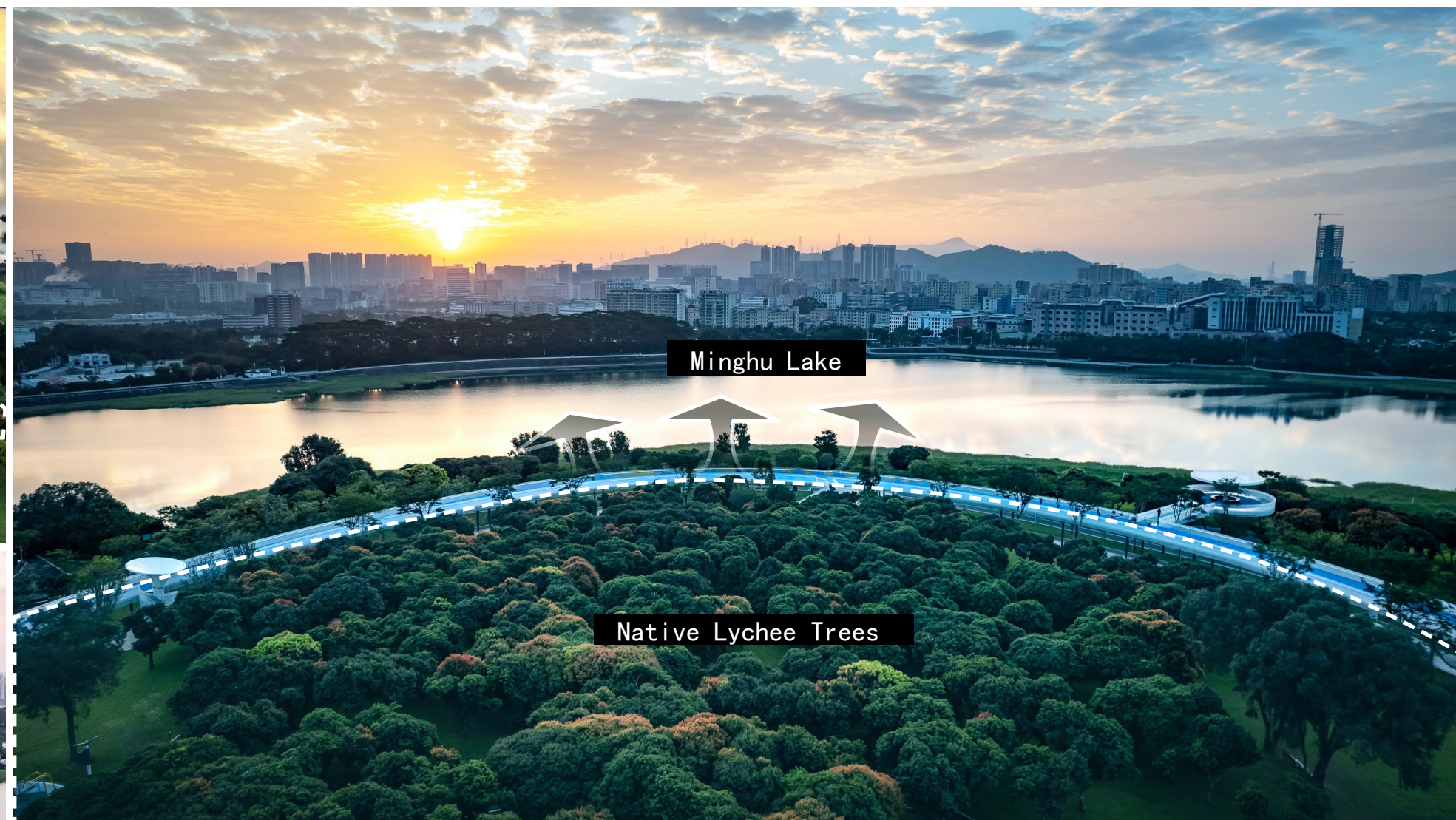
Utilization -
Plant Irrigation



Storage -
Dadang Reservoir

Resilience Design - Reshaping Ecological, Healthy and Vibrant Public Spaces

The internal system adopted a variety of sponge measures through on-site construction to promote the collection, infiltration and purification of rainwater, and optimized the runoff organization of the site. According to the site elevation, the water collection range of the sponge facility, and the distribution of the rainwater pipe network, the site was divided into 5 catchment areas and designed with 7 facilities such as rain garden, grass planting ditch, ecological dry creek, detention pond, water storage tank, ecological revetment, and ecological parking spaces for ecological restoration.



Resilience Design - Reshaping Ecological, Healthy and Vibrant Public Spaces

The ecological environment in Guangming District has been improved after the completion of the park, so that the park's crises such as soil erosion and invasion of alien species have been solved. It used 7 kinds of sponge facilities with different functions, and rationally utilizes the local conditions to regulate and store rainwater. According to statistics, the annual runoff total control rate of the project is greater than 80%, and it can absorb 43.30mm rainfall on site.



Birds          Insects                    Reptiles     

Resilience Design - Reshaping Ecological, Healthy and Vibrant Public Spaces

The water ecological space of the Dadang Reservoir and the forest environment of the park are necessary conditions for the survival and reproduction of animals, birds, insects and microorganisms. After the construction of the park, a large number of wild birds lived here, including egrets, greater coucals, striated prinias, and scaly-breasted munias, of which the egret family is the largest. They are a kind of indicator animals for the evaluation of wetland ecological environment and environmental quality.



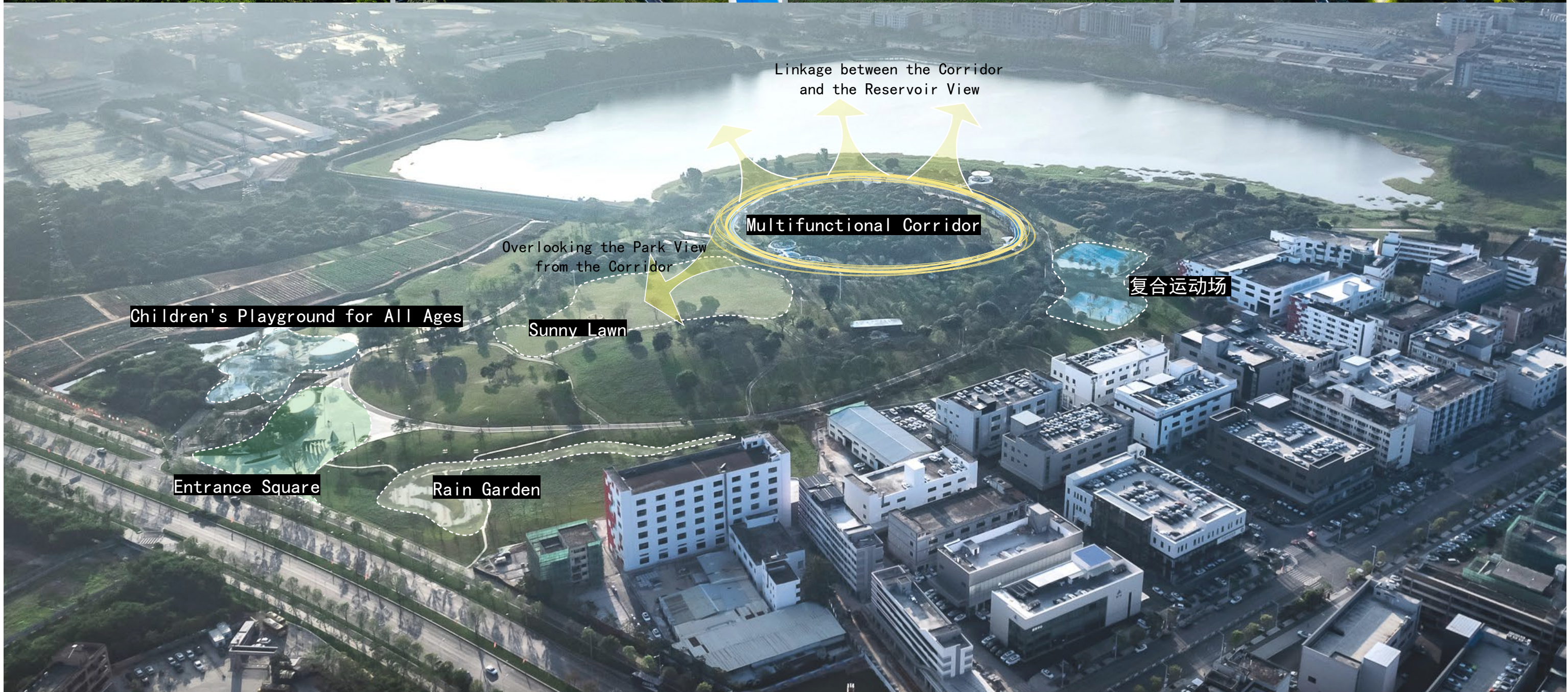
Blank Space - Let Public Space Have More Possibilities

There are nearly 90,000 square meters of woodland, cultivated land, and basic farmland distributed in the park, which are the red lines that cannot be touched in the site. Therefore, in the early stage of planning, the designers set out to establish zoning to avoid these "unfavorable" interferences, delineated key design, light design, micro design, or even no design areas, and boldly left blank to deal with these lands.



Blank Space - Let Public Space Have More Possibilities

The method of leaving blank space reserves a large area of lawn space, so that the entire park space can be opened and closed orderly, while creating a large amount of flexible activity spaces.



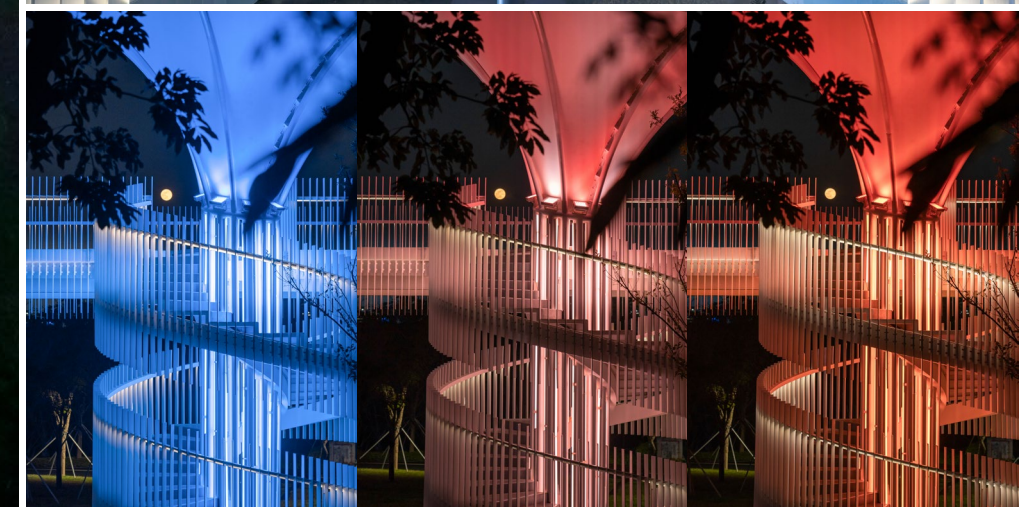
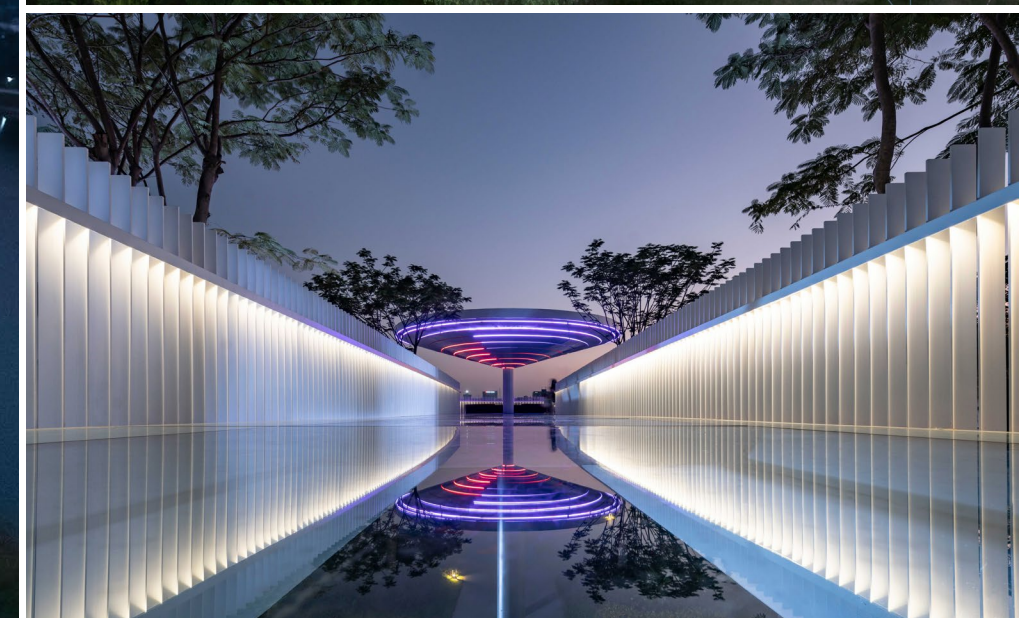
Blank Space - Let Public Space Have More Possibilities

The park operator has organized activities such as light festivals, art exhibitions, car exhibitions, research and education on the lawn, and citizens can also carry out various spontaneous activities in the site. With the space of imagination and the beauty of art, the limited space also shows the breadth of the world. The art of omission (nothing is better than something here) presents an elegant aesthetic situation.



Blank Space - Let Public Space Have More Possibilities

Besides the blank spaces, hardware supporting facilities such as children's activity places, Ptness spaces, and basketball courts are distributed throughout the park seamlessly.



Blank Space - Let Public Space Have More Possibilities

The Cloud Bridge, originally called the Sharing Ring, hanging at the end of the lychee trees is the largest building in the park. The bridge deck functions as a viewing platform, a cultural corridor, and a runway for chasing light. Under the bridge is a book bar, an exhibition hall, and a place for sharing and communication. The art of omission and resilience design are embodied everywhere in the park.



Social Value - Promote the Supporting Facilities of the Area, Teach through Lively Activities, and Improve the Living Environment

Activate the vitality of the area by restoring ecology, sorting out traffic, reshaping space, and implanting functions. Retain the memory of the original site, provide more flexible spaces, and allow users to use their imagination to create activities and spontaneously form social behavior. The original lychee trees, farmland, and big trees were completely preserved in this construction.



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Social Value - Help the Upgrading and Transformation of Surrounding Industries

Minghu Park has quickly gained popularity among Shenzhen citizens as a prime destination for leisure and nature appreciation. Despite its recent opening, the park has already become a beloved spot for locals to spend their free time.

Morover, it has enhanced the value of the surrounding land and helped the upgrading and transformation of surrounding industries.