Category - Built Projects, Parks and Open Spaces

BUILD ECOLOGICAL WETLANDS AND SHARE BEAUTIFUL NATURE

Based on the practice of Yangchun Lake Wetland park in Wuhan,China

Hubei, China

Project name: BUILD ECOLOGICAL WETLANDS AND SHARE BEAUTIFUL NATURE
Location: Yangchun Lake Wetland Park, Hongshan District, Wuhan City, Hubei Province
Award Category: Built projects, parks and open spaces
Area: 9500 ㎡

▼ PROJECT STATEMENT

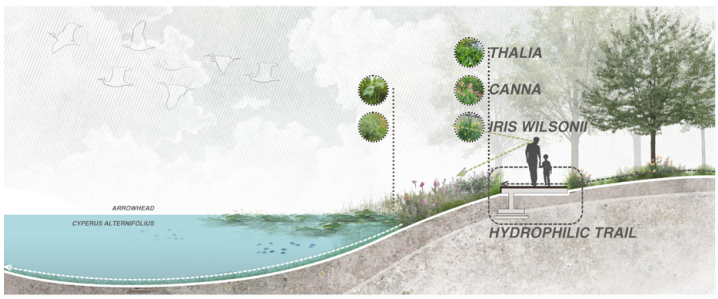
Ecological Wetland Guardian

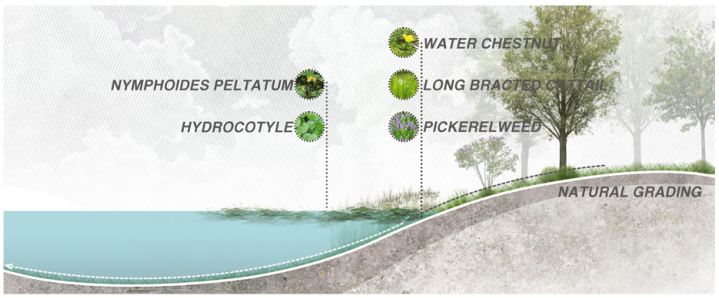
Yangchun Lake boasts magnificent lake views and abundant ecological wetland resources. However, with the acceleration of urbanization and the increase of human activities, the protection of ecological wetlands faces three major problems. Firstly, the pressure of land use is constantly increasing, and ecological wetlands are at risk of being developed and utilized. Secondly, water pollution is becoming increasingly serious, posing a threat to the ecological environment of wetlands. Finally, human activities often cause damage to the ecological system, affecting the ecological function of wetlands. In order to protect the ecological wetlands, we need to take effective measures, including formulating corresponding protection policies and regulations, strengthening the governance of water pollution, ensuring the water quality of ecological wetlands, and strengthening the protection of the ecological system. At the same time, combining with sustainable design, we provide answers from various perspectives. Only in this way can a good ecosystem be maintained.

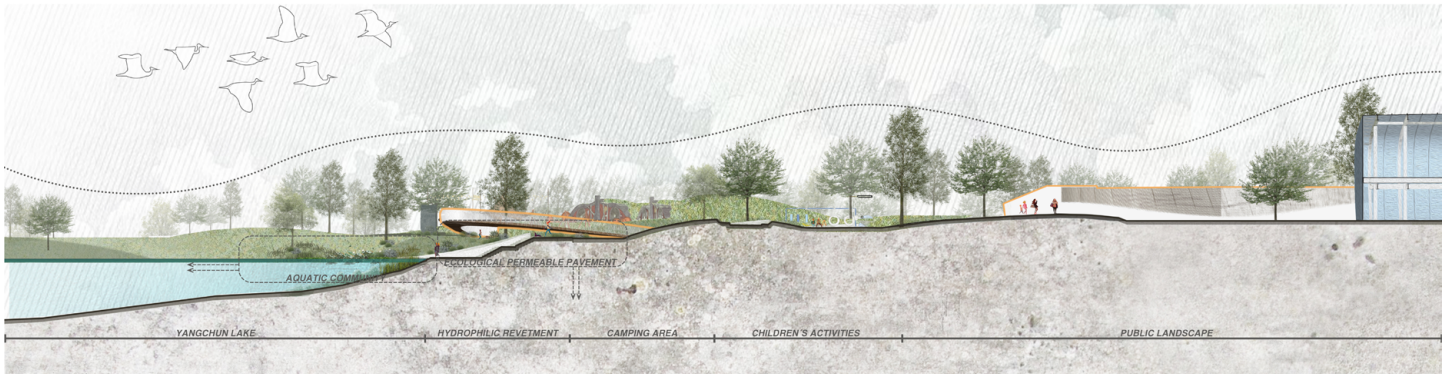
▼ PROJECT NARRATIVE

Yangchun Lake is located in the northeast area of the sub-center of Yangchun Lake in Wuhan City. The Beijing-Guangzhou high-speed railway passes through the lake, dividing the lake into east and west areas. In order to improve water quality, Hongshan District launched a water quality improvement project to restore the emergent plants in the west area and control the flooding aquatic plants in the east area. The upgraded artiÞcial wetland can not only deal with the overßow of the outlet, but also improve the landscape, which has become a highlight of the water quality improvement work of Yangchun Lake. Today, the water quality of Yangchun Lake is stable at Class IV, and it has become an evergreen wetland park in all seasons. It was awarded the "Beautiful River and Lake" in Wuhan in March. District leaders afÞrmed the Yangchun Lake water quality improvement project. The improvement of Yangchun Lake's environment has attracted a large number of residents to come to take pictures, watch birds, and exercise, as well as many citizens and tourists from Wuhan Station to check in and take pictures.

RESPONSE TO THE DESTRUCTION OF WETLAND ECOLOGY CAUSED BY WATER POLLUTION.

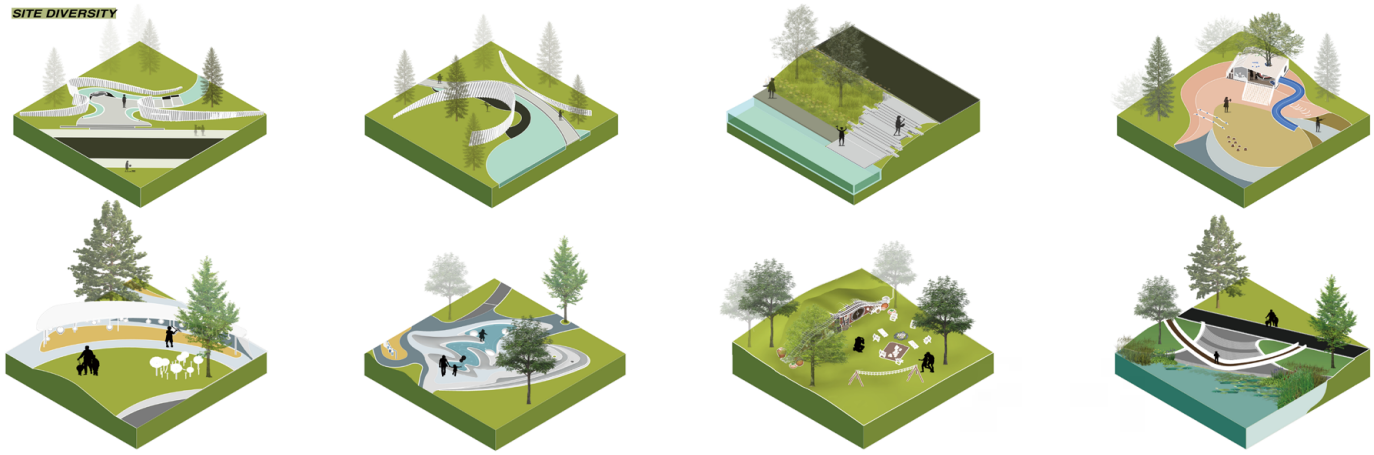






Through the design of the ecological water system, the project puriÞes the pollutants in the water body through the functions of plants, microorganisms and other ecosystems, thereby improving the water quality. Permeable pavement materials are used to allow rainwater to penetrate into the ground and reduce surface runoff, thereby reducing the inflow of pollutants into the water body. Choose suitable plants, such as aquatic plants with the ability to absorb pollutants, so as to reduce pollutants in the water body. At the same time, we advocate the concept of environmental protection, and through education and publicity, we can increase public awareness and attention to water pollution issues, thereby reducing pollution emission of matter.

IN RESPONSE TO LAND USE PRESSURE



Reduce land waste through rational planning of land use. Optimize the landscape design scheme and reduce the hard landscape area as much as possible. Promote green buildings, reduce land occupation and improve land use efficiency through the design concept of green buildings, thereby alleviating land use pressure.

IN DEALING WITH ECOSYSTEM DAMAGE

Protect and restore the wetland ecosystem by selecting suitable plants, constructing wetlands and aquatic plants. Choose plants that adapt to the local climate and soil conditions, and choose native plants to reduce the impact on the ecosystem of the project site. Reduce damage to the ecosystem by choosing appropriate building materials and building techniques, adopting sustainable design methods, using renewable energy, reducing water use, using recycled materials, etc.

Create a multi-functional green space, allowing nature and humanities to coexist harmoniously

Greening is the main means of beautifying the environment. After the completion of this project, it will become a green space integrating culture, ecology, landscape and rest, creating a rich natural landscape, so that heaven, earth, people and nature complement each other.

Create a sustainable ecological plant landscape design with technology and artistic aesthetics

This project aims to follow the policy requirements and create a sustainable plant landscape design through the combination of technology and artistic aesthetics, which not only protects and restores ecological wetlands, but also improves the green area and ecological comfort of the site. We pay attention to adapting measures to local conditions, respecting the original site and species, and ensuring the diversity and symbiosis of plants, so as to achieve a win-win situation of landscape function and ecological benefits.

Through such design concepts and practices, we can make positive contributions to urban

Combining technology and art to create a sustainable plant landscape and realize the dual value of ecology and aesthetics

This project is not just a traditional architectural development, but a spiritual development endowed with emotion and details. We chose a site in the Þrst-line Yangchun lakeside wetland, integrating nature, architecture, human settlements, and parks to create an urban dwelling where urban Þreworks and wetland lakeside blend together. We are committed to integrating wetland gardens with buildings, parks, and human settlements, so that urban people can enjoy life in the secret environment of wetland forest and oxygen. We not only provide lake views, but also rich supporting resources such as community parks and commercial facilities, so that people can enjoy a high-quality life here. We hope that through this project, we can reshape the core value of urban human settlements and bring about changes in human settlements and life concepts. Let us create a better tomorrow for the future of the city together!

To create a hub in central China and inject new impetus into Wuhan's economic development

Based on TOD model development, this project will inject new vitality into the urbanization process of Wuhan. Through the dual cycle model of subway + high-speed rail station and city integration, the integrated development of rail transit stations and surrounding areas will be realized, the organic combination of urban transportation and urban development will be promoted, and the rapid advancement of urbanization will be promoted. At the same time, this project will also create a central China gateway hub with "integration of station and city, integration of industry and city, and integration of scenery and city", injecting new impetus into Wuhan's economic development and improvement of city image.

People-oriented, creating a livable urban space, leading the new trend of urban sustainable development

In terms of creating a unique and beautiful living environment, this project will make full use of the unique geographical conditions and area planning model to create an urban space suitable for living, working and traveling. Especially in the protection and utilization of wetland parks, this project will actively promote the protection of urban wetlands and contribute to the improvement and sustainable development of the urban ecological environment. By creating a unique living environment, this project will become a model of urbanization and sustainable development.

Create a sustainable plant landscape design

The plant landscape design of this project aims to create an ecological system in line with local characteristics through the combination of science and technology and artistic aesthetics, improve the green area and ecological comfort of the site, and realize the sustainable development of plant landscape design. During this process, we pay attention to adapting measures to local conditions, respecting the original site and species, and ensuring the diversity and symbiosis of plants, so as to achieve both landscape functions and ecological benefits.

ecological wetland: Strategies to integrate nature and human orientation

1. Reasonable design of tour routes and observation decks, so that tourists can enjoy the natural scenery without disturbing wildlife.
2. Build an ecological education center and carry out ecological education activities to let people understand the importance of the wetland ecosystem and how to protect it.
3. Take ecological restoration measures to restore the natural state of the wetland ecosystem and increase the habitat and food sources for wild animals and plants.
4. Control the impact of human activities on the wetland ecosystem, such as restricting development and construction, prohibiting Þshing and hunting, etc.
5. Strengthen monitoring and management, timely discover and solve problems faced by wetland ecosystems, and ensure the health and stability of wetland ecosystems.

Aerial View

Select suitable species, create local landscape features, and enhance residents' sense of identity and belonging to regional culture

The analysis and selection of suitable species in line with Hubei's characteristics is conducive to creating local landscape characteristics, building a stable ecological cycle system, reducing resource waste, and enhancing local residents' sense of identity and belonging to regional culture. At the same time, we also respect the original site, adapt measures to local conditions, use on-site materials, ensure the diversity and symbiosis of plants, avoid placing tree species that interfere with each other within a dangerous distance, and prefer a mixed community of trees, shrubs, and grasses to achieve the landscape. A combination of functionality and eco-efficiency

in conclusion

Through the combination of science and technology and artistic aesthetics, we create a plant landscape design that is both beautiful and eco-friendly. We believe that such design concepts and practices will make positive contributions to the urban ecological construction and the quality of life of the customer groups. We remain committed to advancing sustainable landscape architecture to create a better future for our cities and our environment.