

For IFLA ASIA-PAC LA Awards 2023

Landscape-Lake Park

Open Channel Greenbelt

BEIJING DAXING INTERNATIONAL AIRPORT

LANDSCAPE-LAKE PARK AND OPEN CHANNEL GREENBELT DESIGN

2023-05-05



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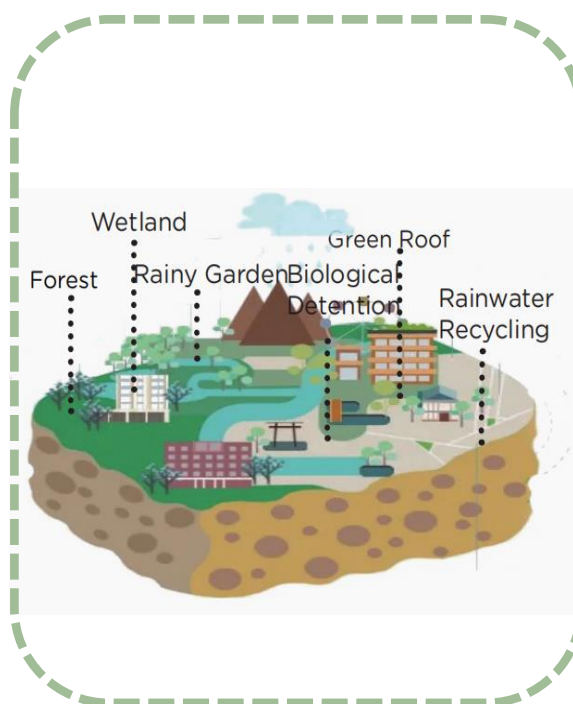
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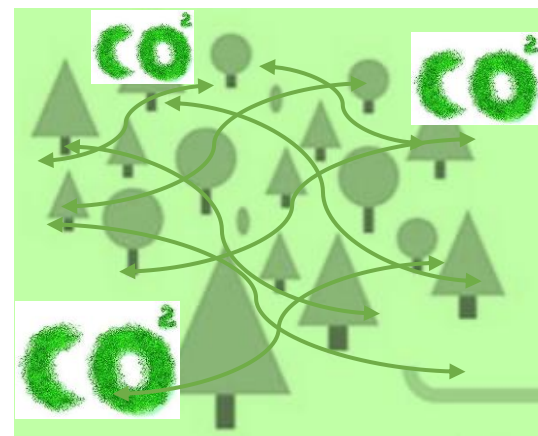
Main Design Features

A large sponge



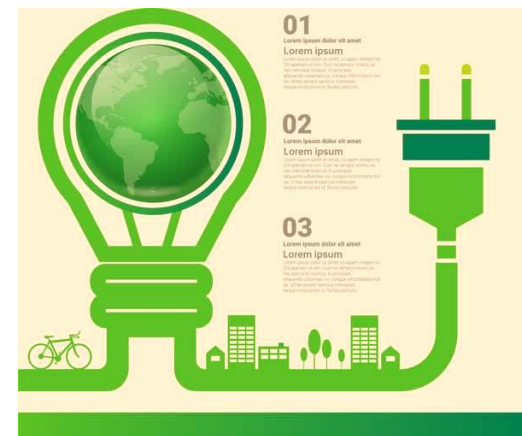
Like a huge sponge, this project is used to regulate, purify, infiltrate, reuse, and safely discharge rainwater and reclaimed water

A carbon sink network



Form a carbon sink network by 40 hectares of forests and 30 hectares of wetlands with sustainable ecological benefits

An energy rod



Like a magic wand for renewable energy, extracts geothermal resources, makes airport building temperature control more energy-efficient

A public open park



Build a large-scale comprehensive park with people-oriented functions, advanced facilities to serve the entire-age group

A landscape painting



Draw a poetic picture of the landscape in the southern plain area of Beijing, showcase the true mountain-water landscape



Project Statement (200words)

Beijing Daxing International Airport Landscape-Lake Park and Open Channel Greenbelt is the largest storage facility for water regulation and its associated green space in the Entire airport rainwater drainage system. It serves as an ecological green wedge connecting the airport' s internal green space system with the external ecological environment. It is an important infrastructure for ensuring the safe operation of the airport during flood season.

The project covers a total area of 730644 m². Adhering to the concept of **openness, sharing, and ecological priority**, the design principle emphasizes **safety, functionality, suitability and sustainability**. While ensuring the storage capacity and protection requirements, upgrade the drainage facilities and basic greening to ecological landscape green space, and utilize excavated spoil earthworks to pile up mountains and build water-scenery, explore the diverse functions of blue-green spaces, creating a large comprehensive green open space that integrates **recreation, ecological conservation, rainwater utilization, and safety protection** functions.

The design organically combines **Chinese classical natural mountain-water garden with modern gardening techniques**, embracing the true meaning of the lake and mountain, drawing the elegance of the National Gate.

The multidisciplinary collaborative design has conducted effective efforts to enhance the multi values of the infrastructure include the visual and cultural connotations.



PKX Airport Location Map

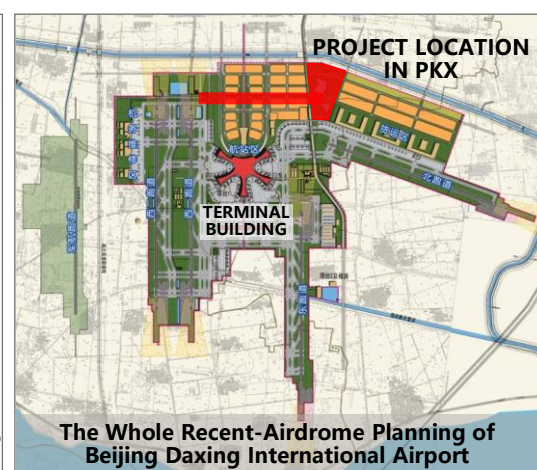
Project Narrative for Built Projects

Project Overview

Beijing Daxing International Airport (PKX) is located at the southern end of the south-central axis extension of Beijing City. It is the second civilian airport after Beijing Capital International Airport (PEK) and currently the world' s largest airport, opened in September 2019.

This project is the largest reservoir for water storage and regulation and associated green space in the entire rainwater drainage system of the airport, serving as a green wedge connecting the airport' s internal green space system with the external ecological environment. It is an important infrastructure for ensuring the safe operation of the airport during flood season.

Adhering to the concept of **openness, sharing, and ecological priority**, the design principle emphasizes **safety, functionality, suitability, and sustainability**. While ensuring the storage capacity and protection requirements, upgrade the drainage facilities and their basic greening to ecological landscape green space, and utilize excavated spoil earthworks to pile up mountains and build water-scenery, explore the diverse functions of blue-green spaces, creating a large comprehensive green open space that integrates **landscape recreation, ecological conservation, rainwater utilization, and safety barrier protection** functions.



UPPER-LEVEL PLANNING

Main Design Content and Basic Ideas

The project covers a total area of 730644 m², including the Landscape- Lake Park with an area of 588632 m². The northern park, covering 416000 m², is the focus of the design.

The design **organically combines Chinese classical natural mountain-water gardens with modern gardening techniques** to create a fresh and natural, simple and atmospheric landscape style.

Revolved around the mountain-water pattern, eight major scenic areas are arranged including **leisure and fitness, observation deck, lakeside sightseeing, and science education** functions, showcasing a rare mountain-water landscape among Chinese airports, which becomes a major feature of the PKX Airport, embracing the true meaning of the lake and mountain.

The south park is mainly for flood control and ecological conservation, combined with wind, solar energy, and ecological water system facilities for science education on energy saving and environmental protection.

The open channel greenbelt is 2.83km long by the straight channel and is beautified by greening the waterside and the patrol road, with some waterfront rest platforms set up for leisure.



In **the core section** of the entire site landscape structure, a landmark central-axis leisure space is created, utilizing the height difference and the falling water wall and fountain elements to enhance the central-axis visual relationship.

The ecological water system is constructed throughout the entire landscape water system to improve the airport' s rainwater storage, regulation and purification system, achieve comprehensive utilization of rainwater resources, and promote sustainable water circulation.

Design Principles:

1. **Functionality**
2. **Ecology**
3. **Suitability & Coordination**
4. **Saving and Economy**

Design philosophy:

Openness, Sharing, Ecological Priority (Details in latter Binder)

Design approach:

Organically combining Chinese classical natural mountain-water gardens with modern design techniques, inheriting and innovating.

Landscape style:

Beautiful and Natural, Simplicity and Modestly, Refreshing and Open-airy atmospheric, suitable for the overall airport' s internal and external environment of.

Specialized Designs (Details in latter Binder)

Project effectiveness:

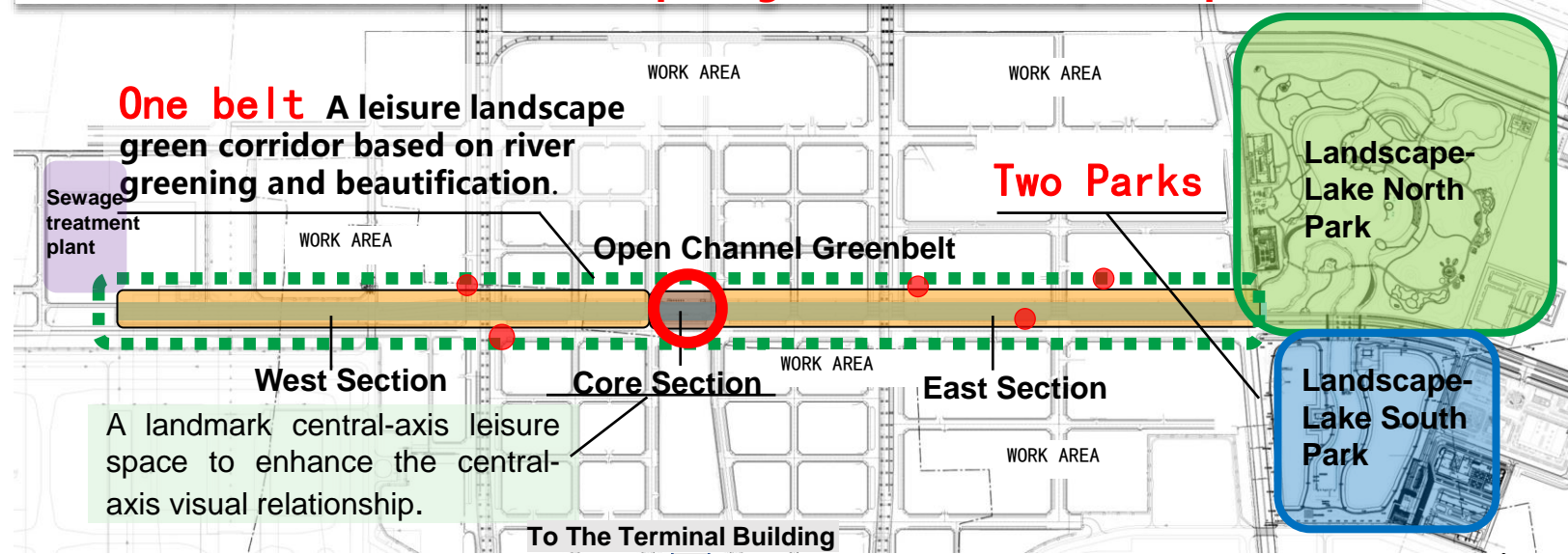
This project has greatly enhanced PKX the national gate image of international hub airport with the beautiful refreshing and pleasant quality environment, under the low cost of country parks instead of urban parks.

PKX has experienced the test of heavy rainstorms in 4 flood seasons. Sponge facilities have saved water > 50,000,000m³/year. Renewable energy has also achieved significant benefits.

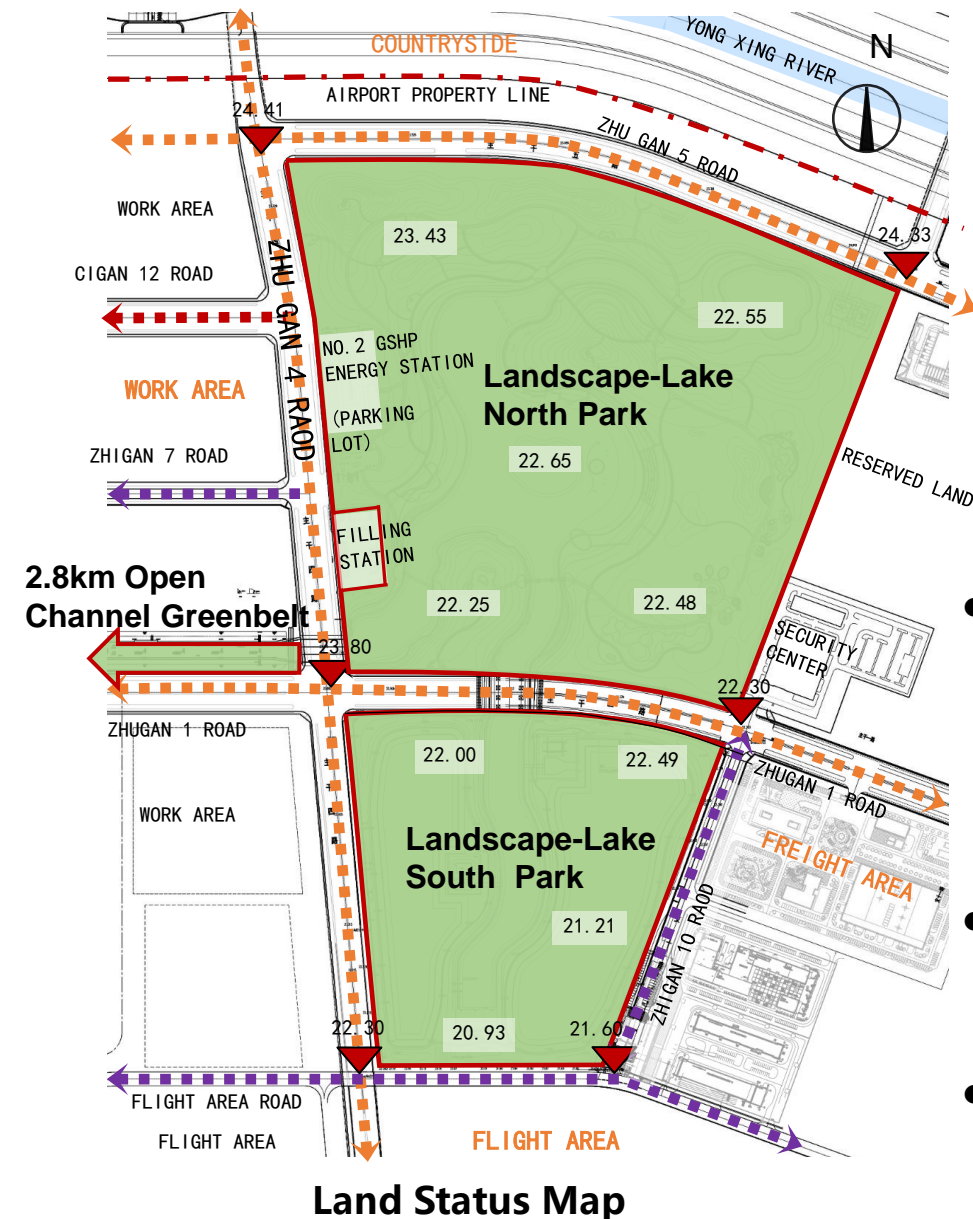
With the biodiversity and ecological environment capacity greatly improved, and the heat island effect < 1.50 C, PKX has won the prize of **"Green Ecological Demonstration Zone "** and some other honors. Let' s look forward to a better tomorrow for this land!

Landscape Structure of the Entire Area:

One Belt, Two Parks, Three Loops, Eight Scenic Areas, Multiple Nodes



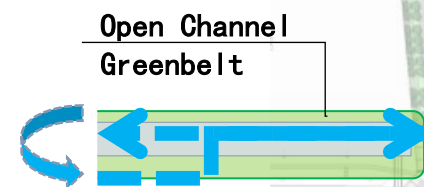
In Landscape-Lake Park, revolved around the mountain-water pattern, eight major scenic areas are arranged including leisure and fitness, observation deck, lakeside sightseeing, and science education functions.



Analysis of Existing Circumstance



- The **open channel greenbelt** runs from west to east through the working area, with straight line and limited opening width in the Prerequisite municipal planning.
- Landscape-Lake Park** adjacent to the Security Center and Freight Area, and with the south park bordering the Flight Area.
- The **original site** is mainly gentle and open farmland, with an overall terrain that is higher in the north & west and lower in the south & east.
- The **main sources of tourists** are airport employees, transit passengers, surrounding residents, and city tourists.



Embracing the true meaning of the lake and mountain, drawing the elegance of the national gate

Design approach: Organically combining Chinese classical natural mountain-water landscape with modern design techniques, showcasing the poetic and picturesque meanings conveyed by ancient Chinese pastoral poetry.

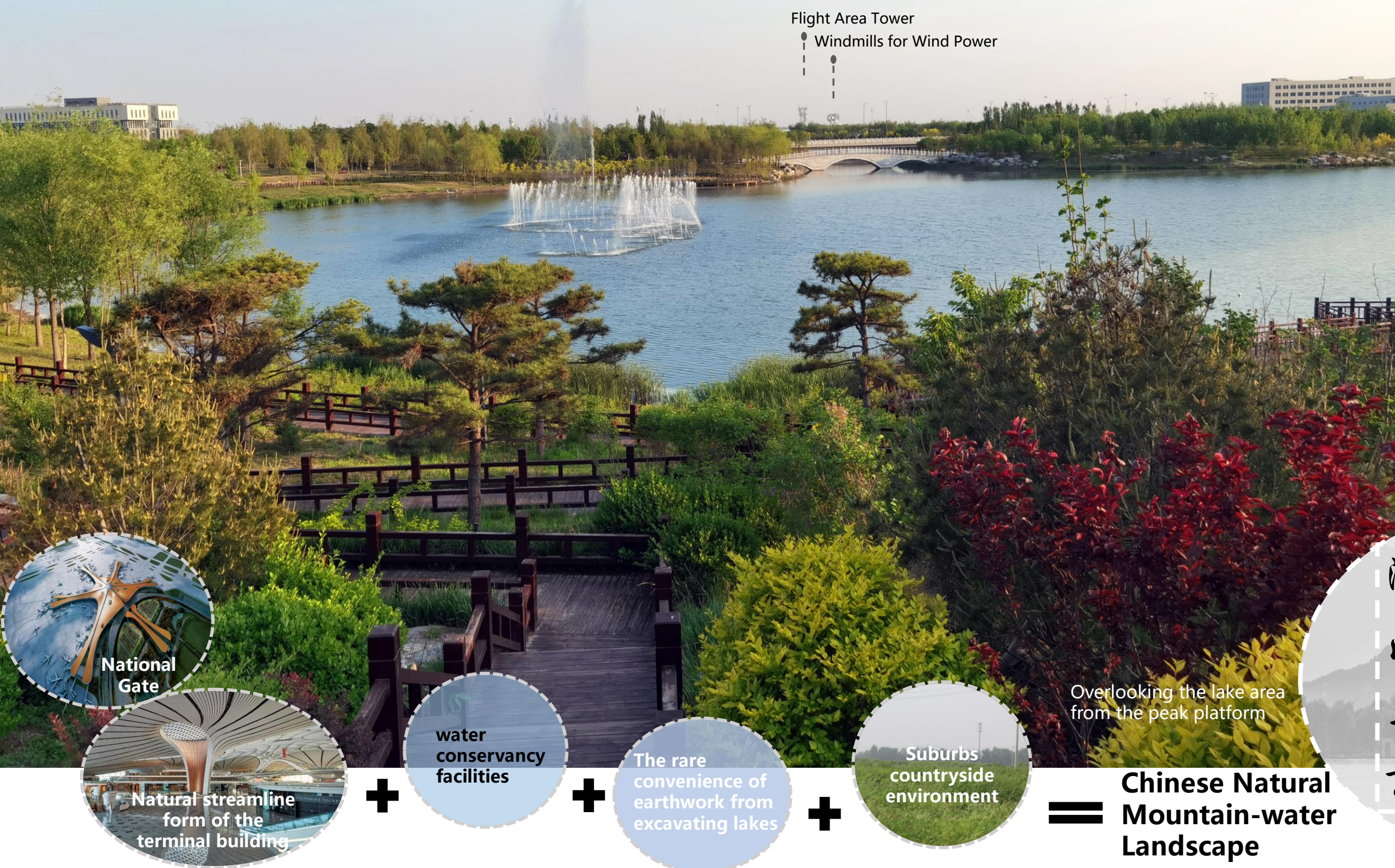
Design philosophy:

- Showcasing the characteristics of mountain and water garden landscape;
- Strengthening the multiple composite functions of blue and green spaces;
- Improving the airport's sponge system for rainwater storage, regulation and purification; ➢ Promoting a virtuous regional ecological cycle.

山
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*The mountain air is crisp and refreshing,
The birds flock back together.
There is a true meaning here, but when I try to explain it, I forget my words.*

—The great ancient Chinese poet Tao Yuanming's famous pastoral poem "Drinking Wine" is about the allusion of "the true meaning of the lake and mountain"



Flight Area Tower
Windmills for Wind Power

Overlooking the lake area from the peak platform

湖
山
真
意

The true meaning of the lake and mountain

Chinese Natural Mountain-water Landscape

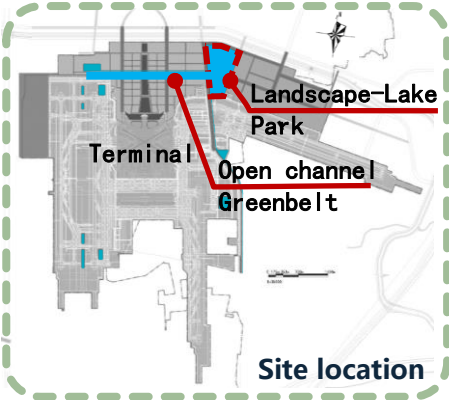
National Gate

Natural streamline form of the terminal building

water conservancy facilities

The rare convenience of earthwork from excavating lakes

Suburbs countryside environment



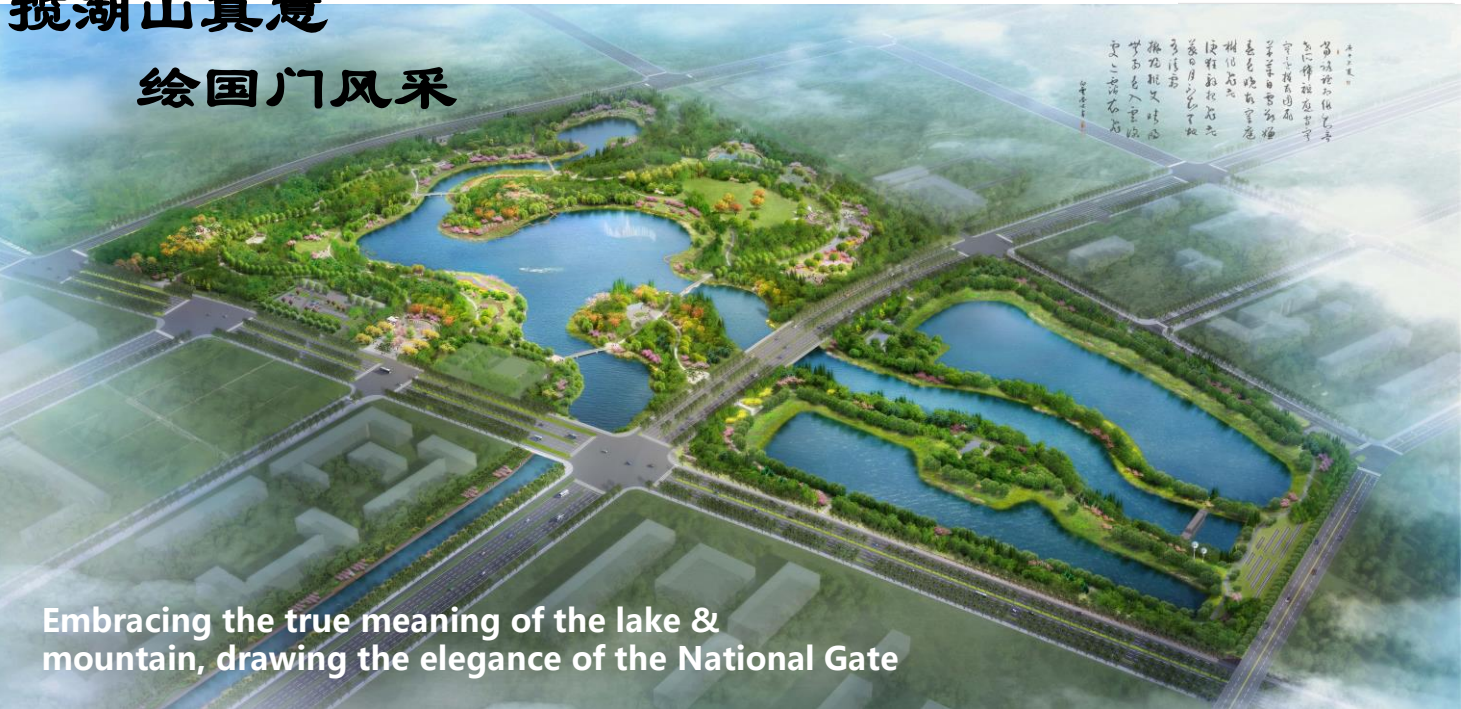
Entire Project Function Positioning:

- ✓ Landscape Recreation
- ✓ Ecological Conservation
- ✓ Rainwater Utilization
- ✓ Safety Barrier Protection

The overall layout revolves around the **mountain-water landscape pattern**, with the north park emphasizing public tour functions while the south on the sponge system, open channel greenbelt as a greening corridor with leisure areas in the core section, creating a large comprehensive green open space with rich and colorful activity space and scenic spots.

Landscape-Lake Park Land Use Balance Sheet				
No.	Land Use Type		Area (m²)	Proportion of Land Area(%)
1	Water Area		199756	/
2	Paved Areas	Garden Roads	22001	5.66%
		Paved Areas	15803	4.06%
		Subtotal	37804	9.72%
3	Architecture	Management Building	20	0.01%
		Recreation and Service Buildings	395	0.10%
		Subtotal	415	0.11%
4	Green Space		350657	90.17%
5	Land Area		388876	100.00%
6	Landscape-Lake Park Total		588632	/
7	Open Channel Greenbelt 142012/Land 88267m²		Project Total 730644m²	

揽湖山真意
绘国门风采



Embracing the true meaning of the lake & mountain, drawing the elegance of the National Gate

Aerial view of the landscape-lake park



Main Attractions in the Park

- 1 West Entrance
- 2 Gatehouse
- 3 Main Ring Road
- 4 Fragrance Collecting Pavilion
- 5 Chess and Games Square
- 6 North Entrance
- 7 Beauty Embracing Pavilion
- 8 Waterside Station
- 9 Lakeside Theatre
- 10 Waterside Boardwalk
- 11 Children's Activity Area
- 12 Sports and Fitness Area
- 13 East Entrance Area
- 14 Spring Flower Sea
- 15 Cloud Shadow Platform Sightseeing Green Bank
- 16 South Entrance
- 17 Dandelion Square
- 18 West Water Bank Flower Terrace
- 19 Central Music Fountain
- 20 Giraffe Habitat
- 21 Multifunctional Lawn
- 22 South Park Entrance
- 23 Willow and Flower Embankment
- 24 Wind-Powered Water Lifting Show
- 25 Solar Station Exhibition
- 26 Flower-covered Slope Protection
- 27 Cloud Ladder Flower Field
- 28 Moon-Waiting Bridge
- 29 Lotus-Maple Bridge
- 30 Rainbow Bridge
- 31 Green Wave Bridge
- 32 Green Ecological Education Exhibition
- 33 Wooden House Pier (Management)
- 34 Public Restrooms
- 35 Deep Forest and Tranquil Lotus
- 36 Ruyi Lake
- 37 Scenic Forest (reserved for future development)

Overall Plan

Vertical design carefully organize the elevation with sight line. While ensuring the storage requirements, create a wetland landscape surrounded by revolved hills and water.

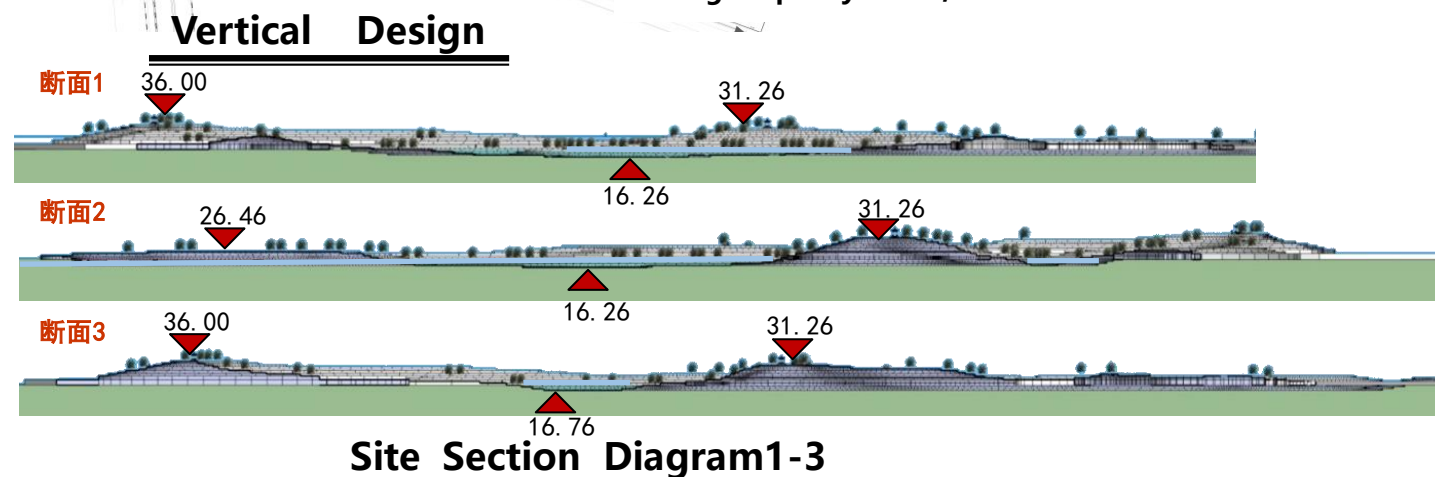
Due to the **height limit of the Flight Approach Surface**, the terrain altitude is controlled within 20 meters above the normal water level. The selection of primary and secondary peak positions is not only far from the runway, but also conducive to **creating a microclimate environment**.

The north park has a diversity terrain and spatial forms, such as **peak, valley, river, bay, branch**



Highest Point level: 16.00 (36.00) m
Landscape constant water level: 0.00 (19.76) m
50-year maximum water level line: 1.60 (21.36) m

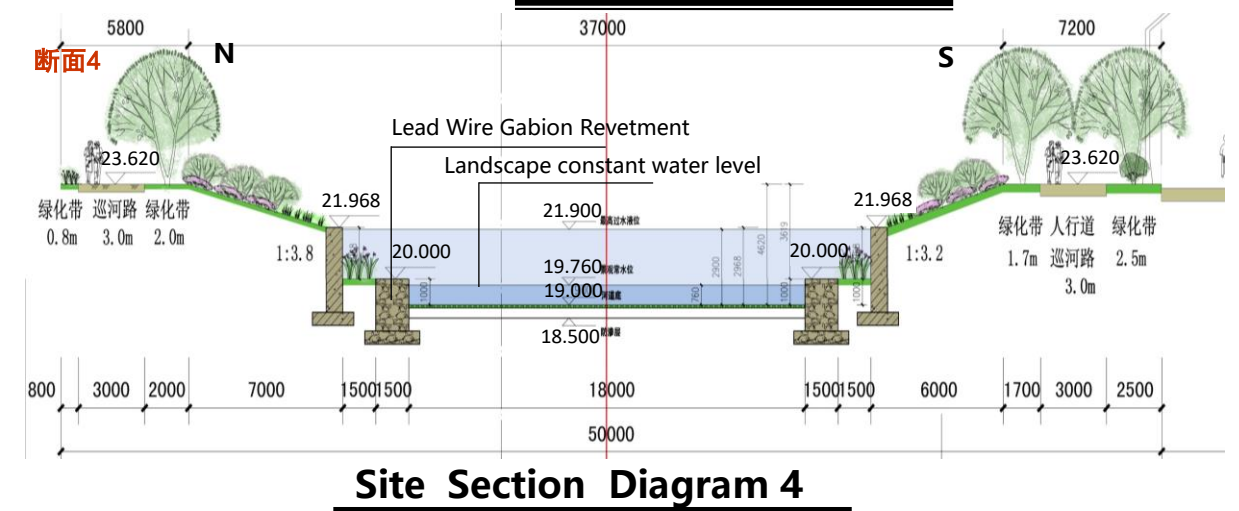
Overall regional storage facilities storage capacity is 930,000 m³



Road System: Using a 4-level Park-Road System, 3 distinctive types of tour routes are created. Connecting the north park and the open channel under the municipal bridge, the lakeside road forms a **waterside sightseeing loop**, creating a 5km waterfront jogging track.



Road System Analysis



Ecological Education Area



Emerald Peak Area



Dynamic and Vibrant Area



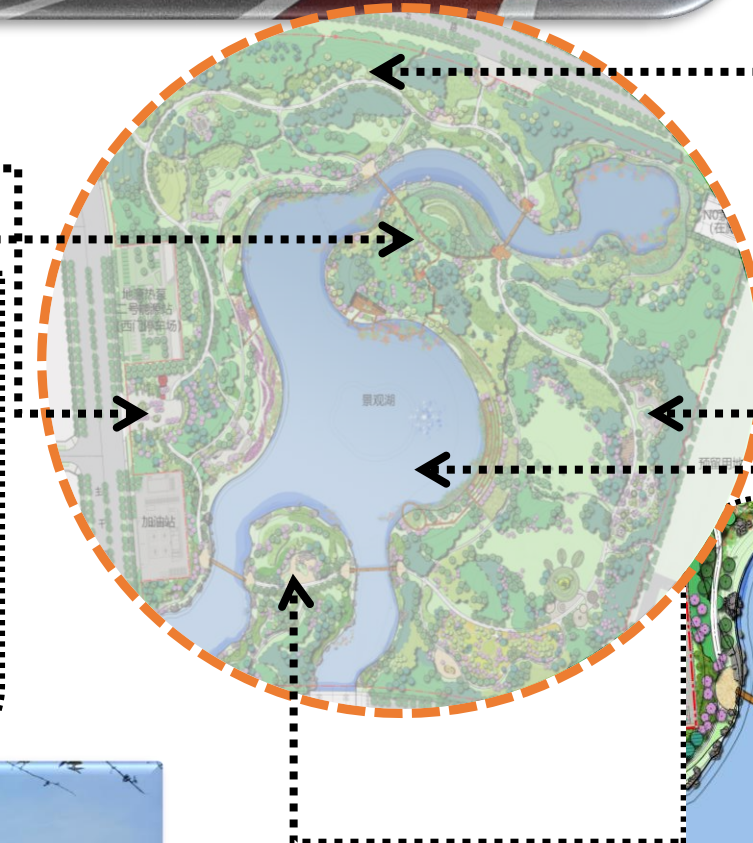
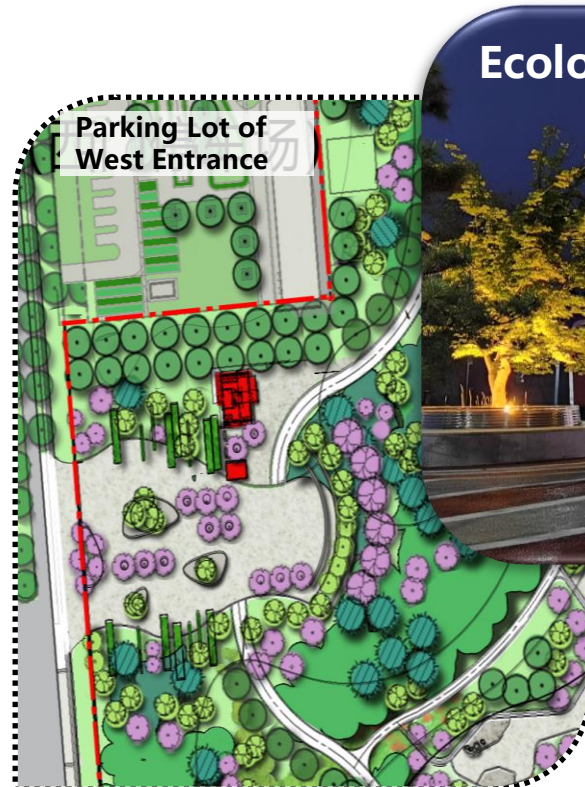
Lakeside Moon Viewing Area



Blue Wave Green Island Area



Waterside Sightseeing Area





1

Build unique poetic view of Mountain-water landscape in northern airports under the approach height limitation

2

Build ecological sustainable water systems and promote a virtuous cycle of regional ecology

3

Highlight plant landscape, create a colorful four-season landscape in the diverse site environments

4

Showcase traditional Chinese culture and style to the world with poetic and pictorial splendor

5

Highlight aviation and ecological themes with garden architecture and sketch sculptures

6

Promote application of new technologies and new process materials, and achieve low-carbon and low-impact construction

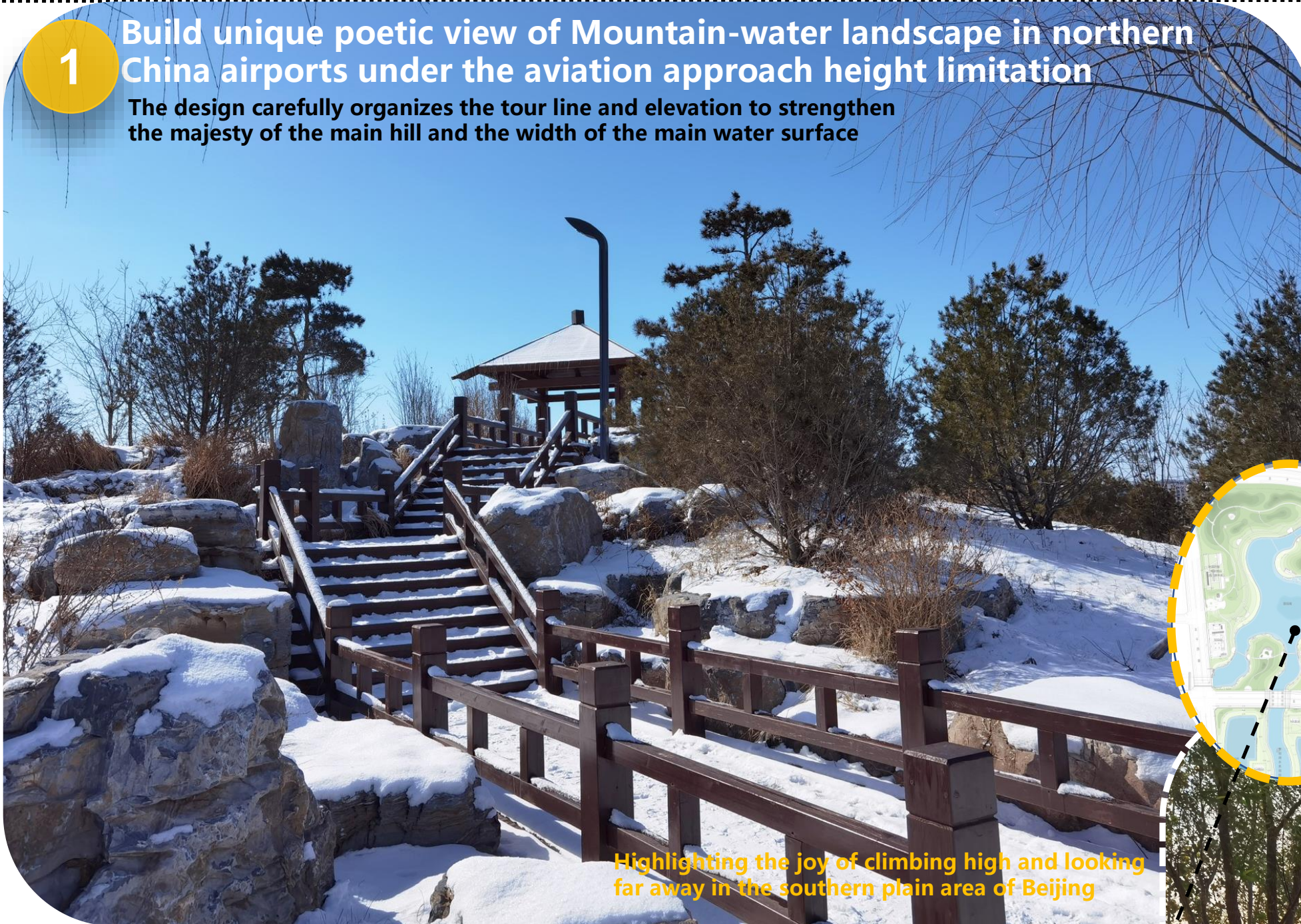
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explore diverse functions for residents & passengers, people-oriented philosophy,

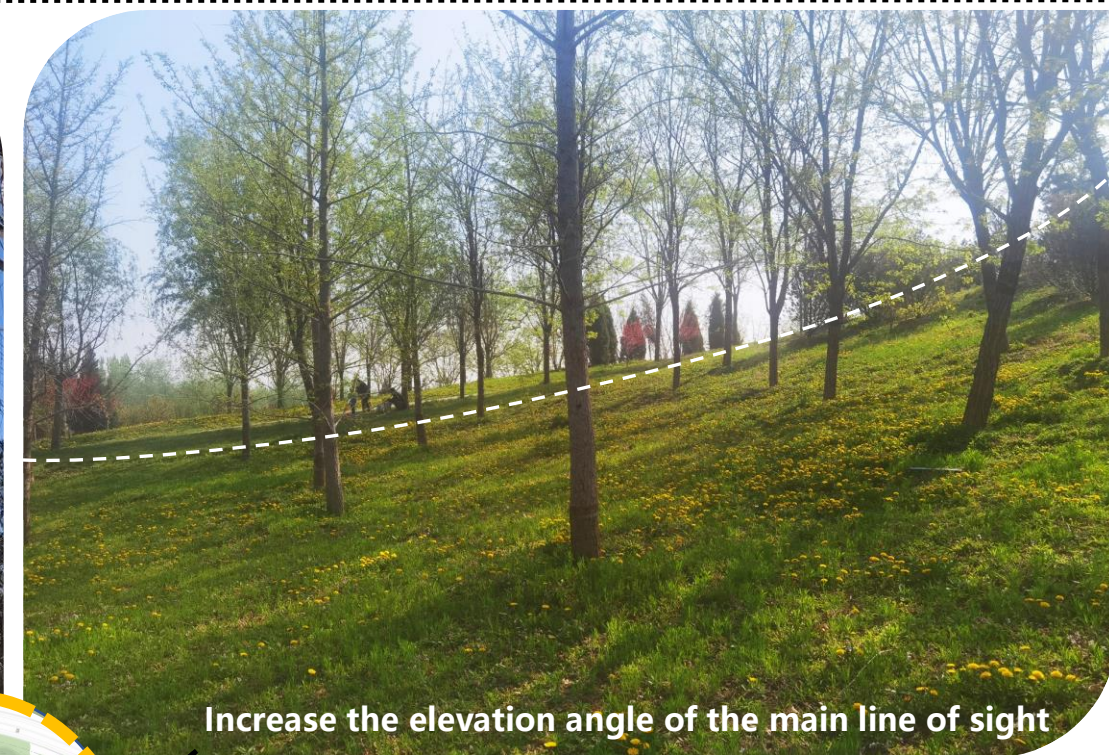
1

Build unique poetic view of Mountain-water landscape in northern China airports under the aviation approach height limitation

The design carefully organizes the tour line and elevation to strengthen the majesty of the main hill and the width of the main water surface



Highlighting the joy of climbing high and looking far away in the southern plain area of Beijing



Increase the elevation angle of the main line of sight



1、The landscape and topography are rich in changes and distinctive, form a rich tour space.

2、Visitors can experience the pleasure of climbing high and looking far away in the southern plain area of Beijing, inviting the moon by the lake, making it a highlight of PKX airport.

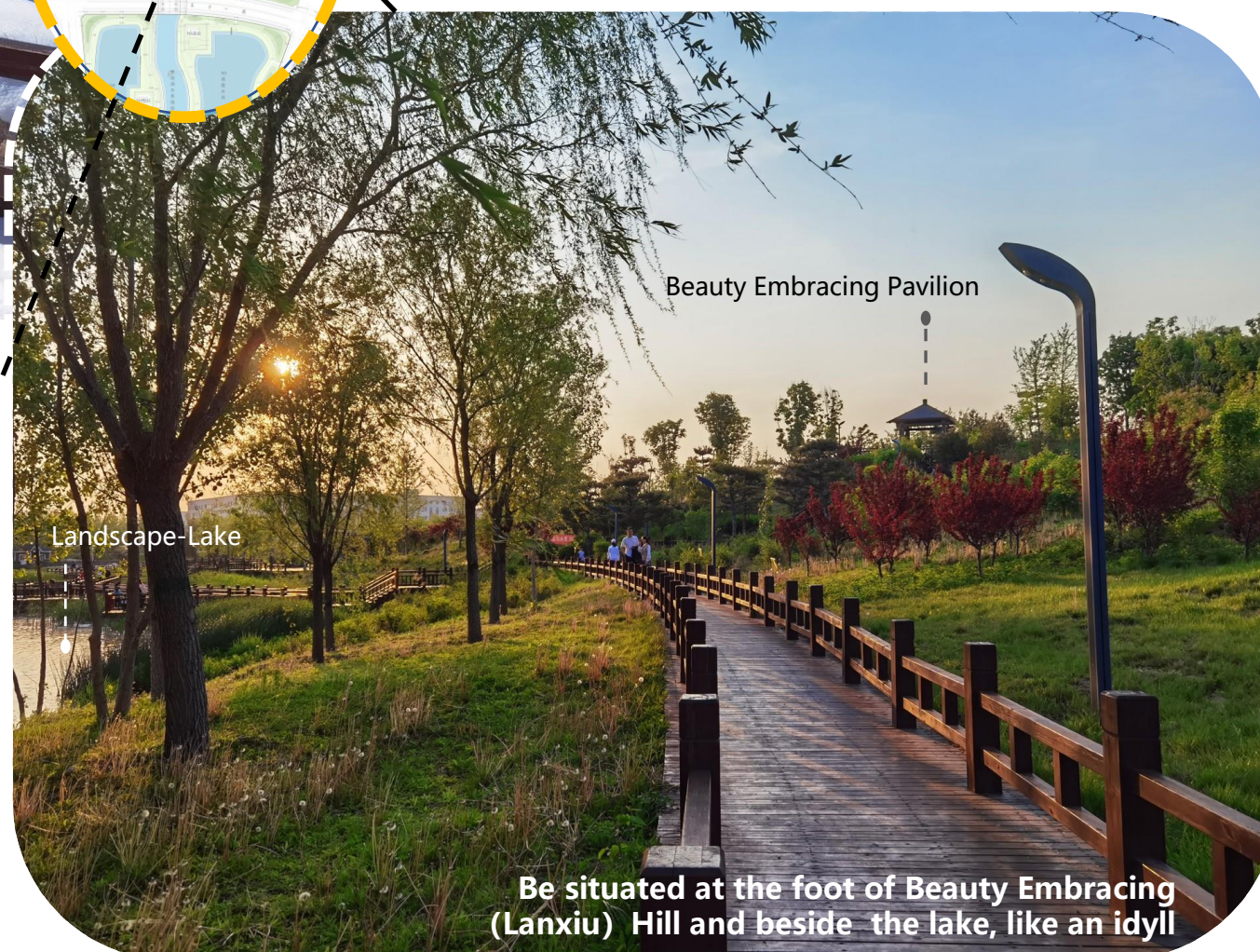


Central Music Fountain

Lakeside Theatre

3、Taking advantage of the rare earthwork convenience of excavating, the Landscape-Lake North Park is designed with rich and diverse natural water forms to create a wetland park/revolved around the mountain-water pattern.

the landscape and topography are rich in changes and distinctive



Beauty Embracing Pavilion

Landscape-Lake

Be situated at the foot of Beauty Embracing (Lanxiu) Hill and beside the lake, like an idyll

2 Build ecological sustainable water systems and promote a virtuous cycle of regional ecology

The water body of this project bears the rainwater collection of four catchment areas (N1, N4, N5, and N6), 14km² construction area of PKX, and the treated wastewater discharged from the sewage treatment plant.

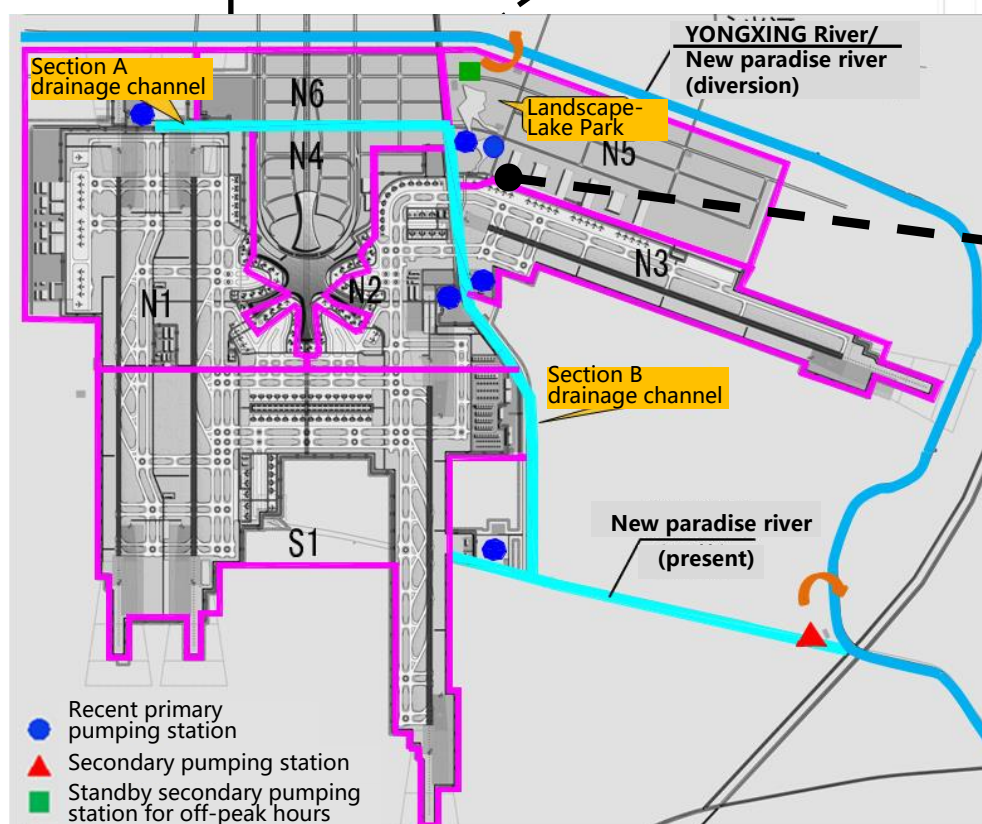
Faced with such a large-scale water system, the initial design includes planning for the entire rainwater drainage system and establishing a **whole-site zoning and grading rainwater sponge storage, drainage, regulation and smart control system**.

As **China's first pilot project for the construction of a civil aviation sponge city**, it has a total sponge volume of over 2.8 million m³ and a landscape storage capacity of 930,000m³

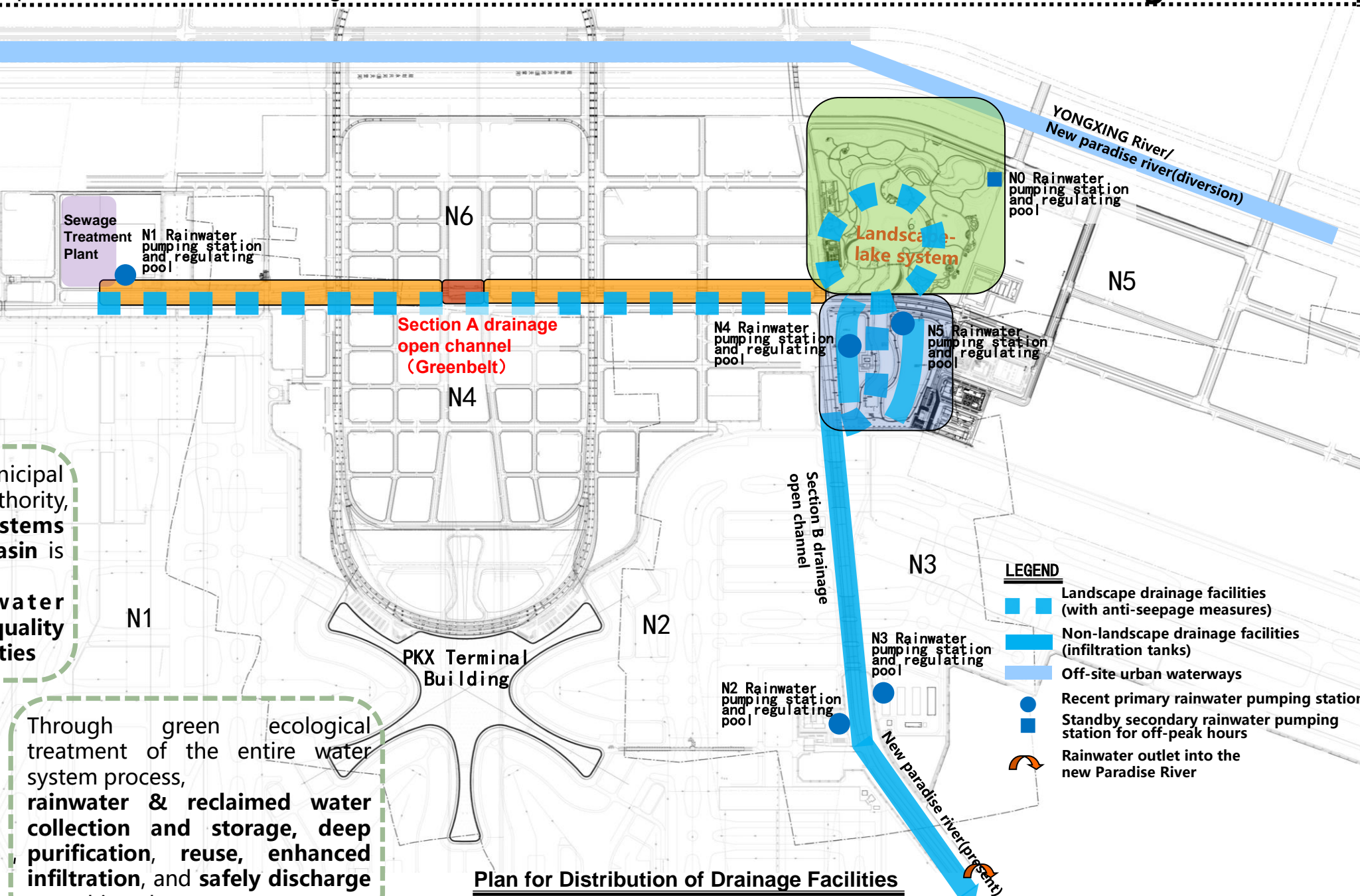
Cooperated with the municipal and water conservancy authority, **the ecological water systems throughout the entire basin is built.**

The design focuses on **water quantity control, water quality control, and sponge facilities**

Through green ecological system process, **rainwater & reclaimed water collection and storage, deep purification, reuse, enhanced infiltration, and safely discharge** are achieved



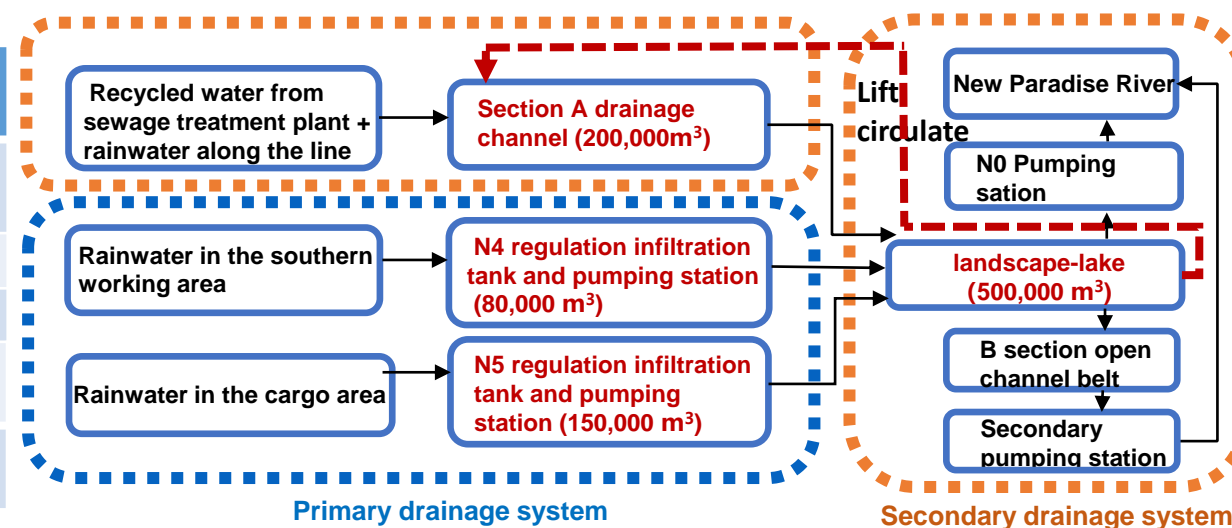
Zoning and grading of the whole recent-airdrome rainwater drainage system layout plan



Plan for Distribution of Drainage Facilities

Mainly achieving sponge indicators	PKX	Beijing Local Standards
Total runoff control rate	90%	85%
Runoff coefficient	0.15	0.40
Storage capacity	1800m ³ /ha	500m ³ /ha
Rainwater discharge rate	decreased from over 400 m ³ /s to 30m ³ /s	
Annual runoff pollution	reduced by more than 68%	

Mainly design achieved sponge indicators



Primary drainage system

Secondary drainage system

Drainage Flow Chart for Drainage Facilities

2-1 System Construction of Ecological Water System

Design principles

- focus on **drainage safety**,
- **reduce the impact** of construction
- improve **flood control capacity**
- supplement with **ecological cycle**,
- **intelligent** management and control



Throw in high-efficient microbial preparation

Flexible polymer honeycomb restraint system used on lake



1、water quantity control

Design drainage zoning and grading system according to verification of once-in-50-year rainfall.

Remote monitor pumping stations, sluice gates, hydrology and water quality by the **Intelligent Platform** of Rainwater Management Center, to regulate the water quantity of water storage system in time



Lead wire gabion used on open channel revetment



Gabion is good at rigidity and ecological compatibility, weakens the shortcomings of straight channel

Key Technologies of Ecological water System

2、water quality control

improve the natural restoration capacity of the water body by make use of the constituent elements such as ecological bank, slope, surface and subsurface wetland areas, bottom surface, water surface, etc..

Aquatic ecosystem: including **sediment-improve engineering** design, **microbial system**, **submerged vegetation** system and **aquatic animal** system. Specifically, **high-efficient microbial preparation** and related auxiliary water treatment measures, **submerged vegetation** and **advanced aquatic animals** such as filter-feeding fish (controllable species), snails and shellfish

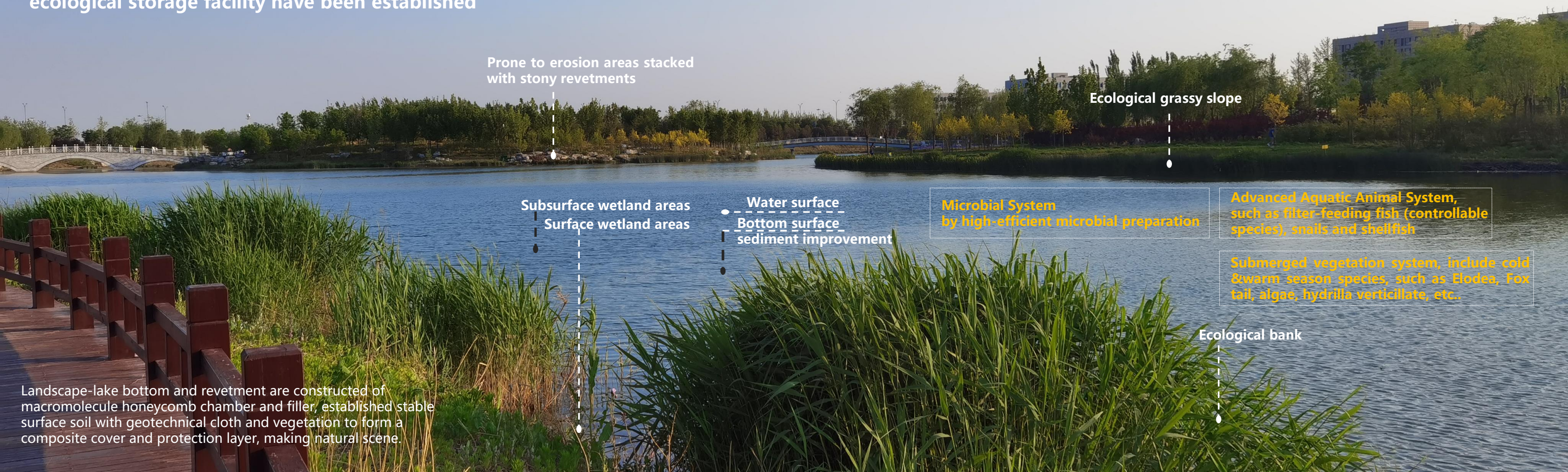


3、construction of ecological bank and bottom

Ecological slope and lake bottom engineering:

- **Flexible honeycomb restraint system** is used at Landscape-lake' s grass-slope revetment and bottom, and open channel bottom.
- **Lead wire gabion** is used for open channel revetment, which takes into account the **rigidity of hardened revetment** and the **ecological compatibility** of grass slope revetment

A stable ecological water system and a beautiful ecological storage facility have been established



Prone to erosion areas stacked with stony revetments

Subsurface wetland areas
Surface wetland areas

Water surface
Bottom surface
sediment improvement

Ecological grassy slope

Microbial System
by high-efficient microbial preparation

Advanced Aquatic Animal System,
such as filter-feeding fish (controllable species), snails and shellfish

Submerged vegetation system, include cold & warm season species, such as Elodea, Fox tail, algae, hydrilla verticillate, etc..

Ecological bank

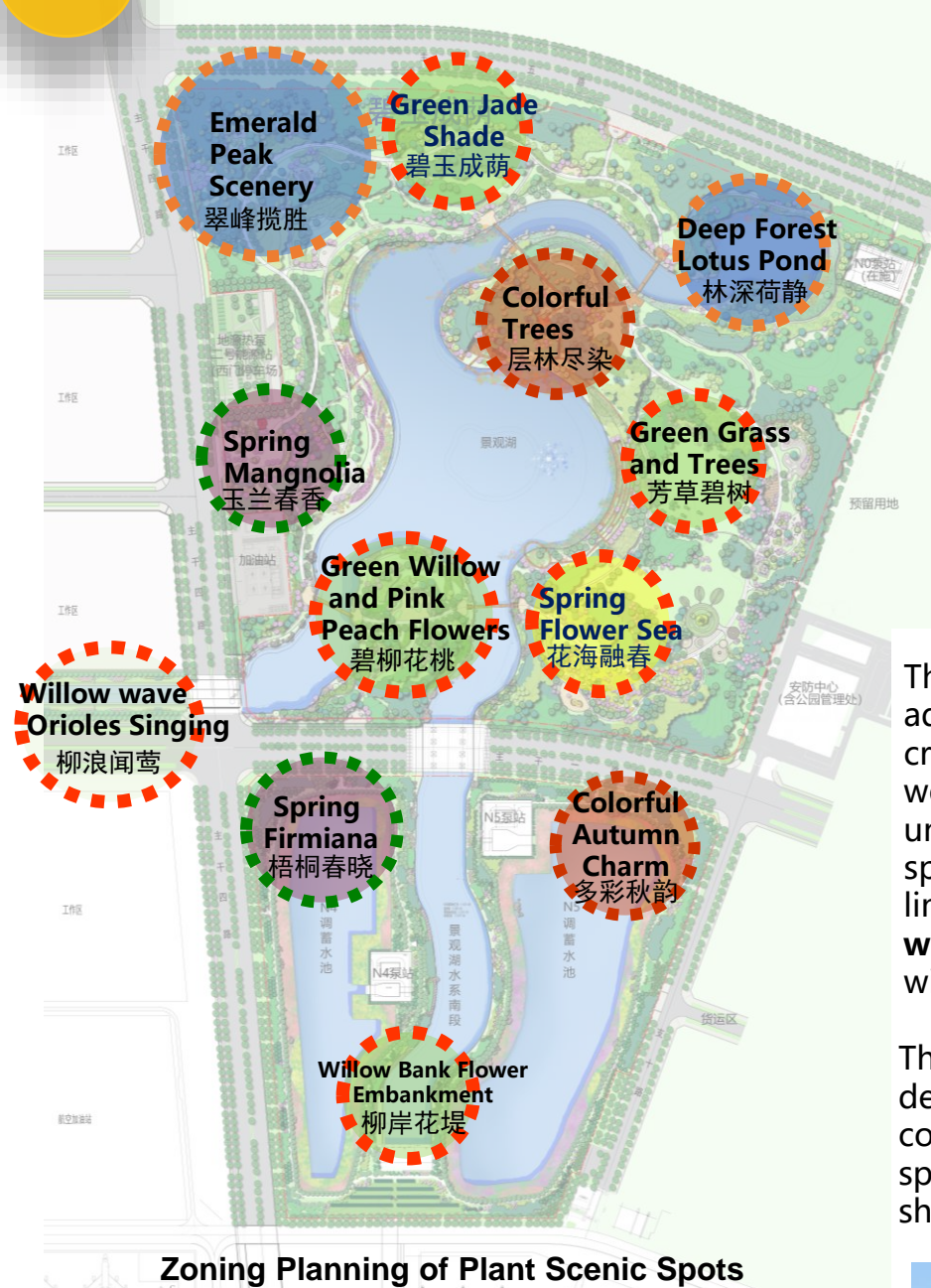
Landscape-lake bottom and revetment are constructed of macromolecule honeycomb chamber and filler, established stable surface soil with geotechnical cloth and vegetation to form a composite cover and protection layer, making natural scene.

Ecological Water System Construction Sketch

The revetment features a grassy slope that flows into the water to present a rustic atmosphere, with locally eroded areas stacked with stones.

3

Highlight plant landscaping, create a colorful four-season landscape in the diverse site environments



The entire design mainly based on plant landscaping. All plants are arranged according to different site conditions.

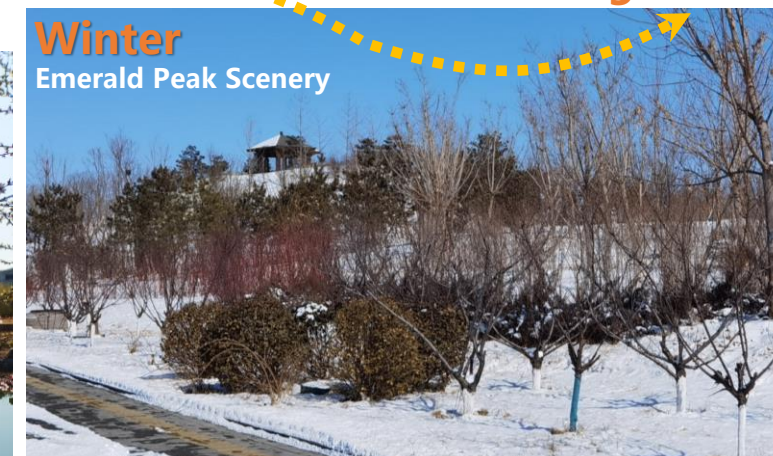
The whole Landscape-Lake Park adopts **natural planting approach** to create quasi-natural forests and wetlands, combined with the undulating terrain to form large-scale spatial clusters and changes in canopy lines, presenting a **natural mountain-water landscape and idyllic scenery** with elegant woods.

The north park mainly utilizes tall deciduous trees, evergreen coniferous trees to form different spatial combinations together with shrubs and herbaceous plants.

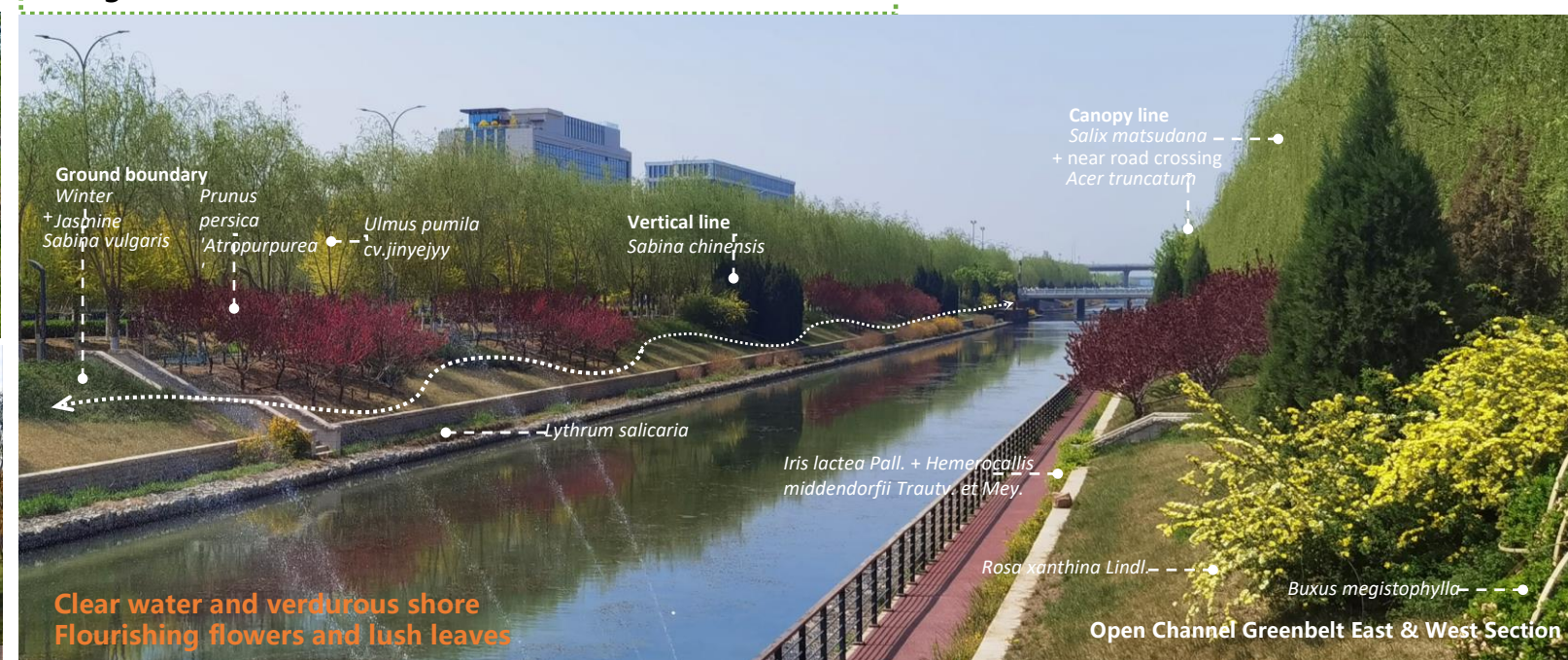
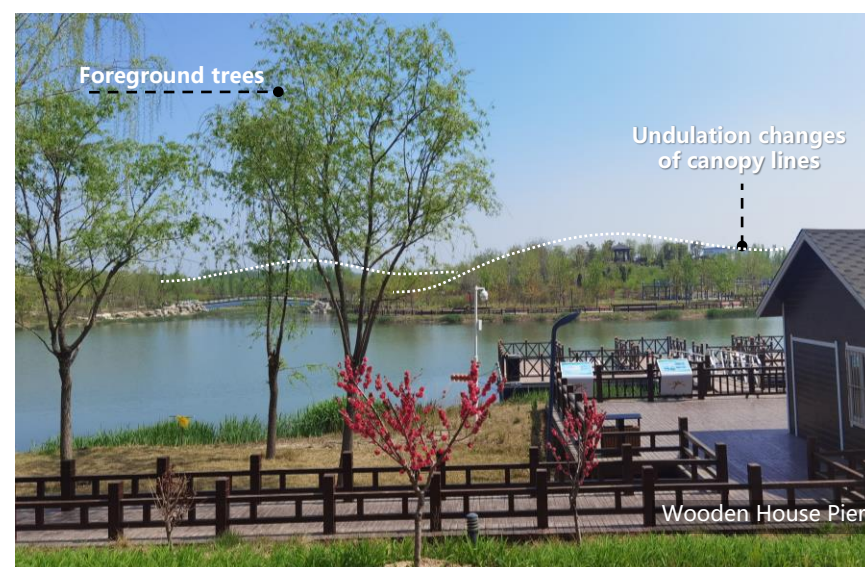


With spring flowers and summer shade, autumn leaves and winter branches, beautiful scenery is presented in the region throughout the four seasons.

Seasonal Change Axis



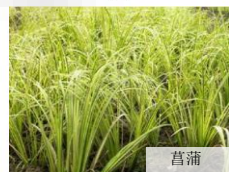
In the open channel greenbelt, trees, shrubs and ground cover clusters are clearly arranged, maintaining a certain rhythm. The streamline ground boundary and the quasi-natural planting clusters have greatly broken the rigidity of the straight channel.



3-1

Adhering to the principle of **suitable trees for the right place**, preferably superior varieties and shade-tolerant, drought- tolerant and water-resistant varieties, promote drought- and shade-tolerant wild ground cover combinations.

草类



宿根花卉



灌木



乔木



Totally 101 plant species used in the project, including:

37 arbors,
31 shrubs,
16 perennial flowers,
9 annual flowers,
5 aquatic plants,
1 bamboo
2 lianas



N4 infiltration pond greening



Acer x freemanii 'Sienna Glen'



Dianthus chinensis mixed floral lawn

The south lake park is mainly based on basic greening to ensure the ecological function of the storage pond site. Water- and drought-resistant plants, composed of 9 types of grass flower are planted on the slope, which not only enriches the plant landscape, but also plays a certain role in soil consolidation of the hydro-fluctuation Belt.

The planting design considers convenient maintenance and management, and controllable costs with most of the species basically utilized in country parks.

In plant varieties selection, attention should be paid to bird avoidance needs, and key foodborne varieties such as crabapple and honeysuckle are limited in the landscape-lake park, which is on the north of Flight Area.

Drought- tolerant and water- tolerant plant varieties



Wild flower combination on ecological slope of N5 infiltration pond

Exerting the purifying role of subsurface flow vegetation and microorganisms.



Muhlenbergia capillaris

Spring view of the Cloud Ladder Flower Field



Dandelion + Chinese violet + Ixeris chinensis

Water-tolerant species planting along the river channel

Wild mixture shade-tolerant and drought- tolerant ground cover plants

4 Showcase traditional Chinese culture and style to the world with poetic and pictorial splendor

湖山真意

"True meaning of the lake-mountain landscape"

Chinese classical garden conception

Hulu in Chinese, "Hu" similar to the pronunciation of "Fu" which means bless

Ruyi in Chinese, symbolizing auspiciousness

Lofty artistic conception of stacked stones on Beauty Embracing (LanXiu) Hill

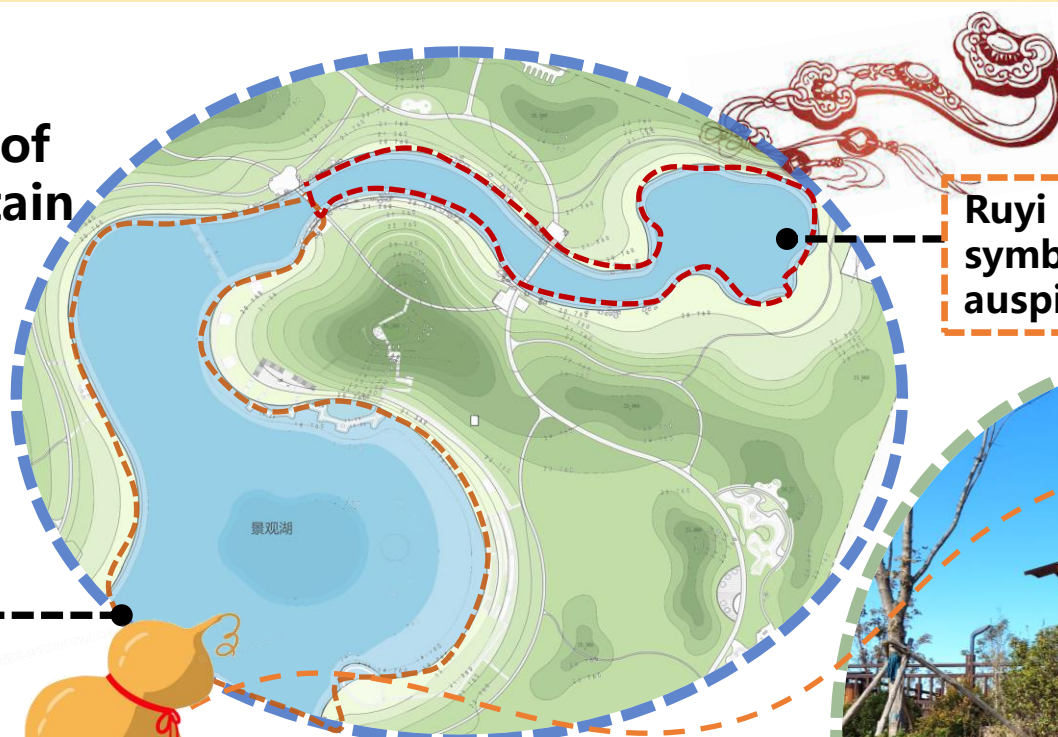
Double Pavilion under pine trees on the top of Emerald Peak, showing Chinese classic artistic conception

Participating Chinese chess Square

The National Gate represents the image of China, a window to show Chinese culture

Shaped Chinese pine trees welcoming every passenger

difficulty in shaping large span bridges for flood passage, adopt kinds of detailed treatments to create the scene of a long rainbow lying on the waves



15



The **Dandelion** from the West Water Bank Flower Terrace casts the seeds of hope onto the world

Steel-wooden Corridor at the Waterside Station

The image on the bronze relief wall of the west entrance is a miniature of the history of human **aviation development**



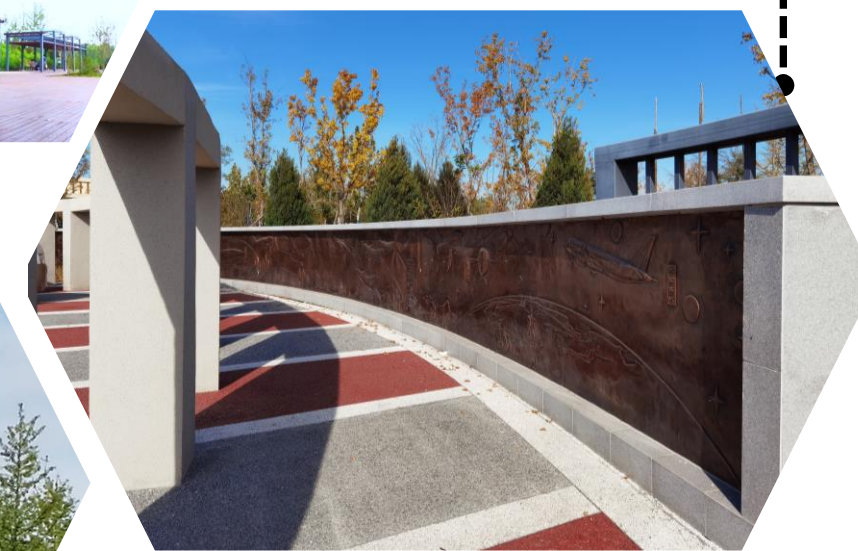
"Growth"
sculpture conveys
the power of life



Cloud Shadow Pavilion -- the aerial scenery and the 2008 auspicious cloud memory of Beijing, the double Olympic City



The rusty plate giraffe sculpture "**Home**" metaphorically symbolizes the loss or return of human ecological paradise



6 Explore diverse functions and areas for residents & passengers with the people-oriented philosophy

Full consideration is given to **accessibility, aging and full-aging** requirements. The project provides various of leisure and fitness venue for **transit passengers, airport staffs, and surrounding residents.**

The open channel greenbelt corn section is especially the typical important node.



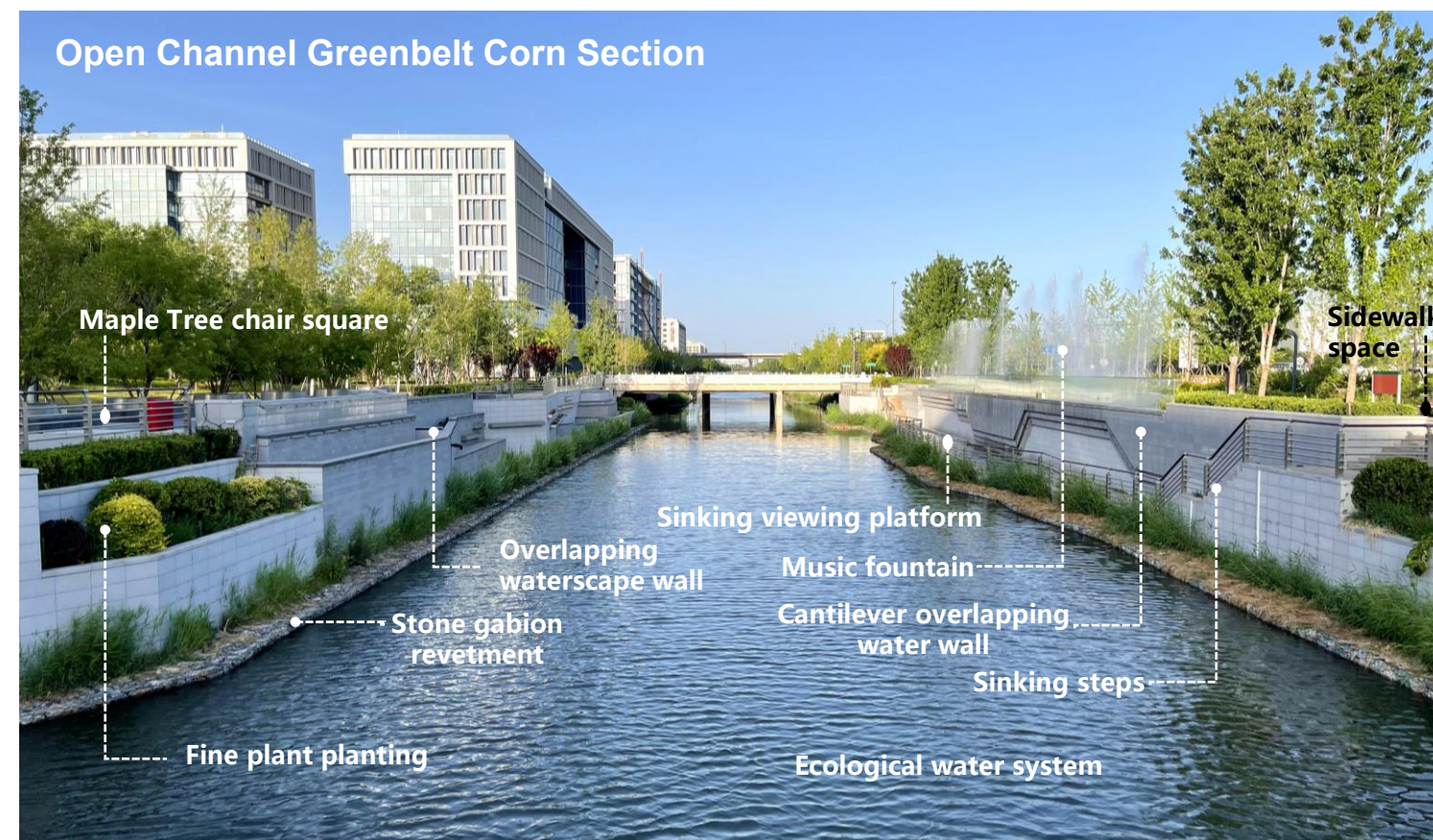
Waterfront rest platform in the near sections

Create a landmark central-axis leisure space at the limit of site width & deep ditch

In the core section, utilize the 4.6m height difference to make the scattered waterfront deck and water fountain wall, tree pond benches, strip planting, etc., to enhance the airport's central axis visual relationship.



A visual center



ACTIVITY areas for leisure, fitness and ecological science education



Outdoor Camping Ground

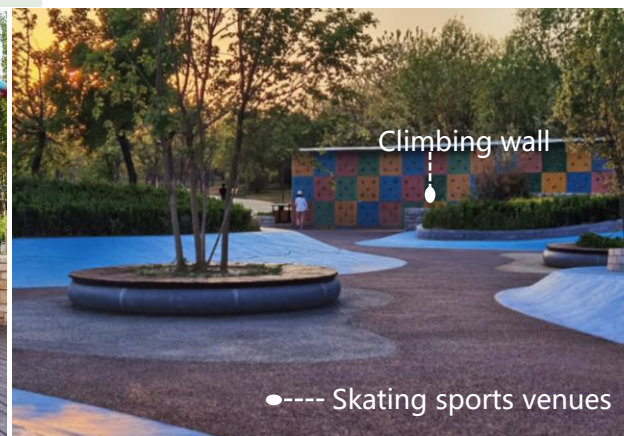


Physical dancing on the Cloud Shadow Platform



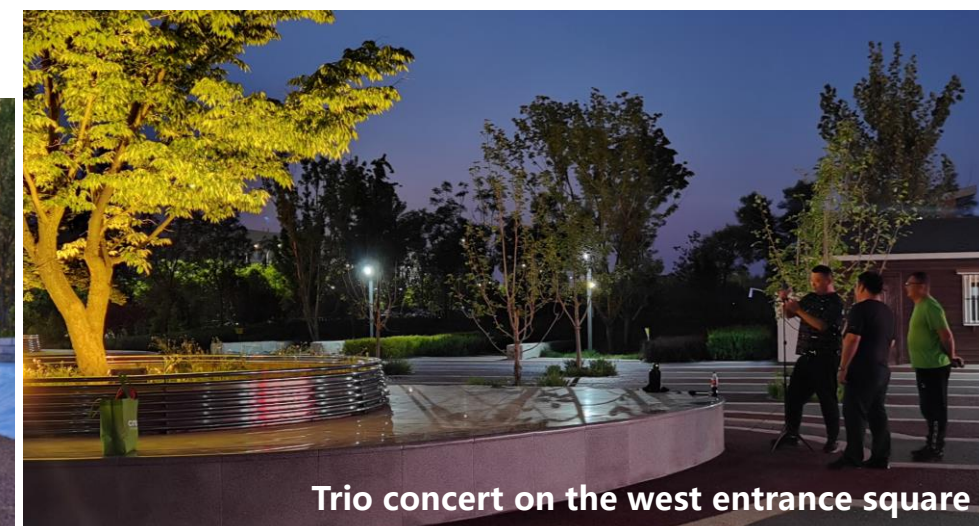
Science exhibition of GSHP at the wharf attracted children

ACTIVITY area for youth in Dynamic and Vibrant Scenic Area



Climbing wall

----- Skating sports venues

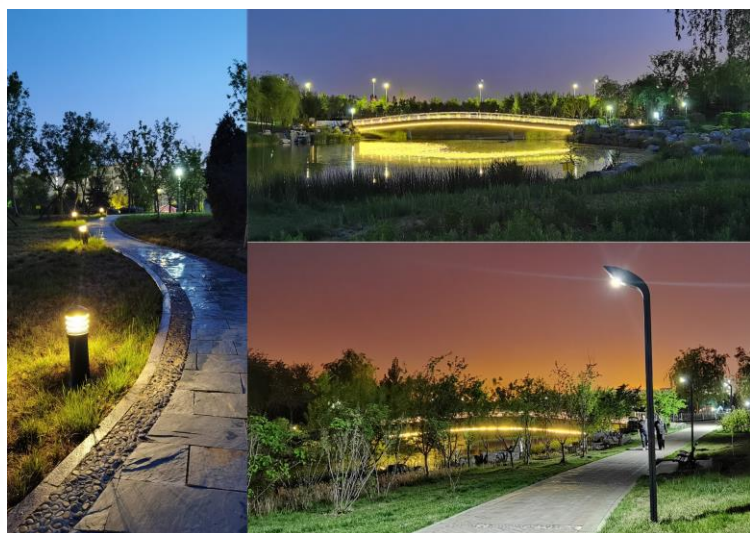


Trio concert on the west entrance square

7 Promote application of new technologies and new process materials, achieve low-carbon & low-impact construction

Green Lighting

Based on basic lighting, supplemented by local landscape lighting. Adopt energy-saving lamps and lanterns, automatically control by stages and time periods, with low light pollution and low energy consumption.



Left: Garden Path Right Upper: Green Wave (Bibo) Bridge
Right Lower: Garden Lamp lighting on secondary road near the Moon Waiting Bridge

Eco-friendly Road & Square Paving Technology

The road system: Reasonable and convenient distribution of road networks, mostly using permeable and environmentally friendly paving, such as permeable concrete and permeable bricks, and degradable materials such as wooden plank roads.



Exposed permeable concrete + plastic cement jogging track



Permeable pavement of the secondary road



Overhead climbing road to protect habitat corridor



Part of the 5km waterside sightseeing loop at the foot of the little hill

Study on measures to avoid birds to ensure flight safety

Because the plot is located on the north side of the flight area, in order to cooperate to ensure flight safety, we should focus on preventing clustered passing-through waterfowl & high-altitude large birds, reducing foodborne organisms.



Pneumatic aluminum-plastic sheet to repel birds cluster

Utilization of Renewable Energy

● **Wind energy and solar energy**
With wind and solar energy in the downstream of the water system used in combination for the **circulating water lifting system**, transport water to the beginning of the A-section open channel to further ensure the water quality, can save probably 80,000 kilowatt hours of electricity can be saved annually.



Photovoltaic system



Water-lifting windmill

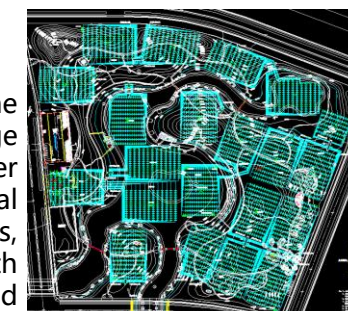
● GSHP

The heat exchange buried pipe of ground source heat pump project is deeply buried under the park, and the main body of its No.2 Energy Station is built under the West Entrance parking lot.



GSHP pump system buried deep under the park can provide two seasons of heat and cold replacement service for 970,000 m² of buildings per year, saving natural gas by about 3 million cubic meters/year and reducing carbon emission by about 10,000 tons/year.

Distribution of the heat exchange pipes buried under the park, a total 10680 buried holes, 140~120m depth underground



Floating Water Music Fountain

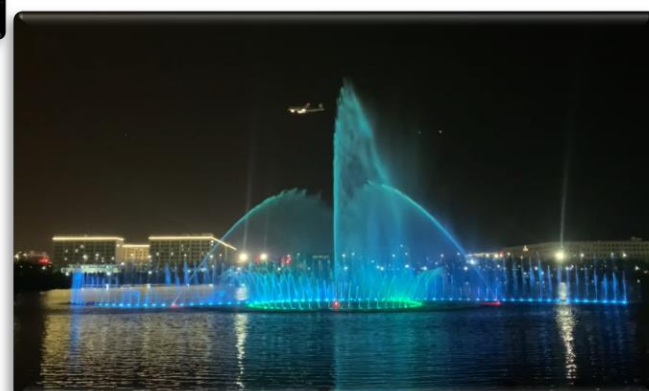
Although the north park has water replenishment as a minimum water level guarantee, the theoretical drop can also reach 1.5 meters.

We install the pipeline equipment on a floating tank, which can rise and fall with the water level variation, while the overall operation is not affected.



So that, the problem of seasonal variation of water level difference is solved. Facility utilization has been greatly improved.

Right: Viewing the Central Music Fountain at the Lakeside Theatre



Application of Smart Park Technology

This project system has been integrated into the Smart System of PKX Airport for unified management

● Intelligent monitoring and security system

Through video monitoring, radio frequency identification, infrared sensing, laser scanning and other sensing technologies, real-time perception of park facilities and tourist flow data.

● Wisdom maintenance

Including precision irrigation, intelligent music fountain, green intelligent lighting system, and pest monitoring, etc., to realize the informationization and intelligence of the maintenance process.

● Building a digital park

Park information management into the unified management of the new airport intelligent system.

● Intelligent rainwater drainage sponge system (Details in Previous P10 Water System)



*“Harmony between man and nature” has always been the highest realm pursued in design.
This project has decorated the new national gate with poetic landscape
eco-safety and harmony.*

Natural mountain-water space are priceless assets, and we look forward to a better tomorrow for this great land!



THANK YOU FOR REVIEW!

Rural scene of the riverway in the northeast part of the Landscape-Lake park, echoes the outside country environment