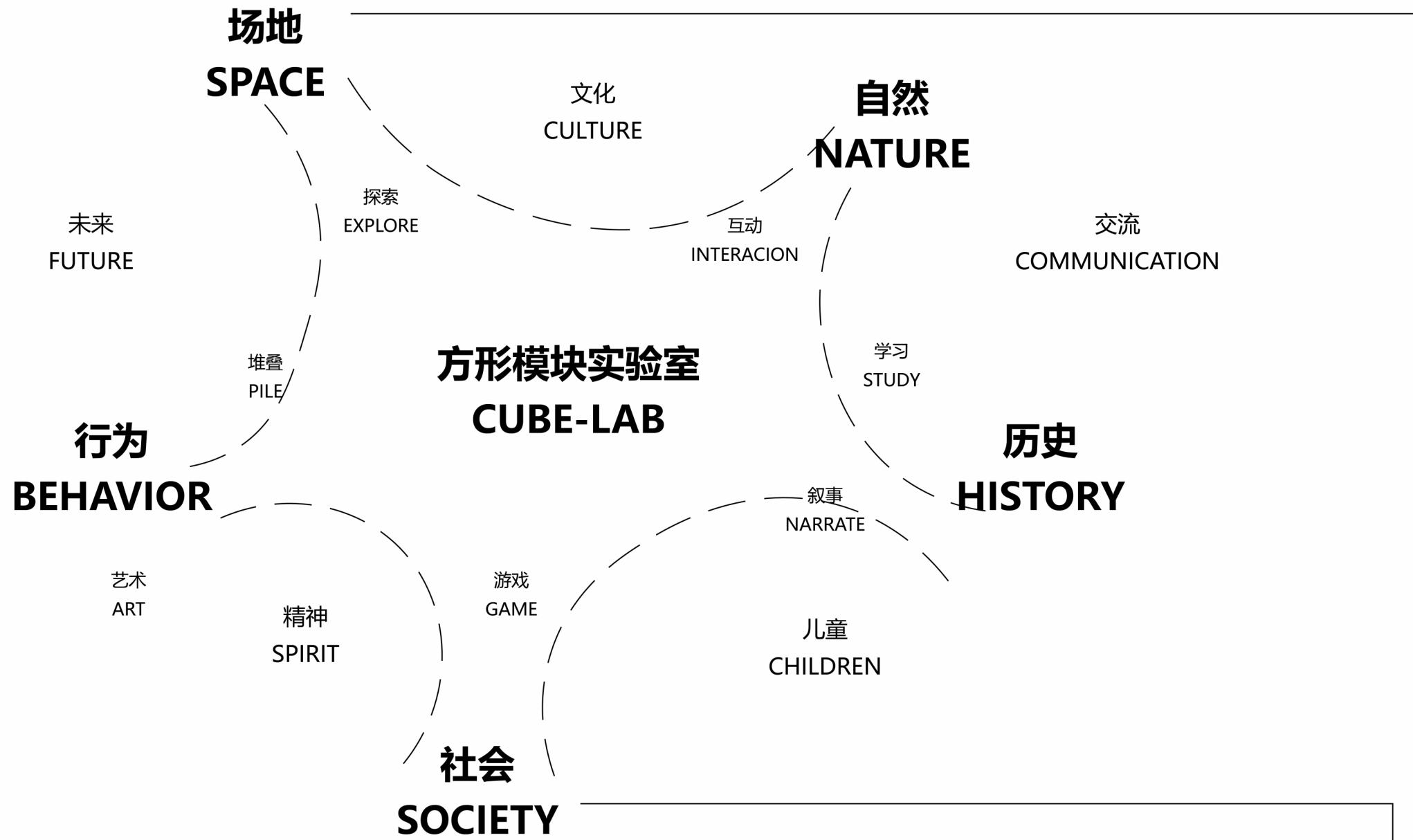


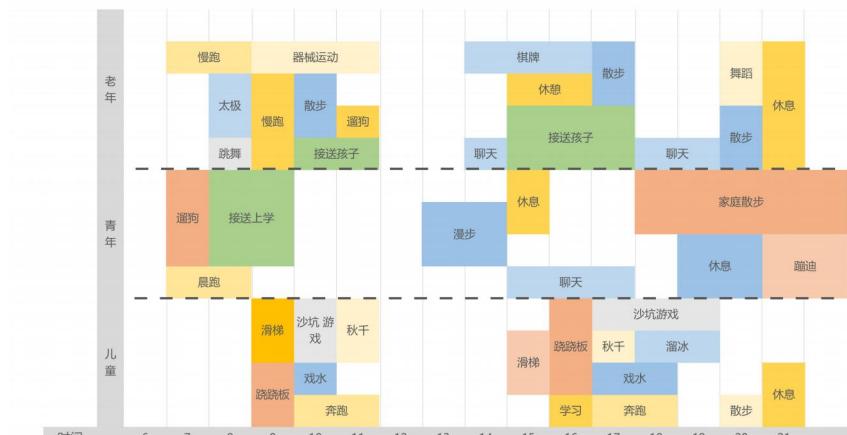
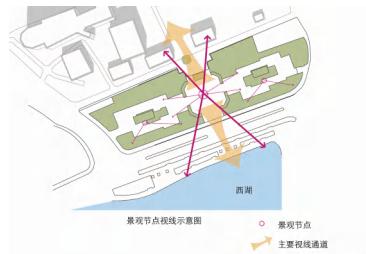
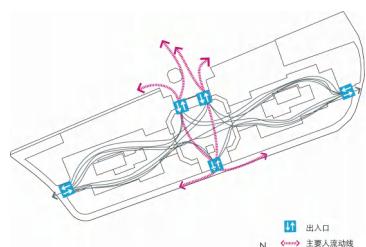


CUBE
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杭州市少年宫广场改造设计



前期分析 Prophase analysis

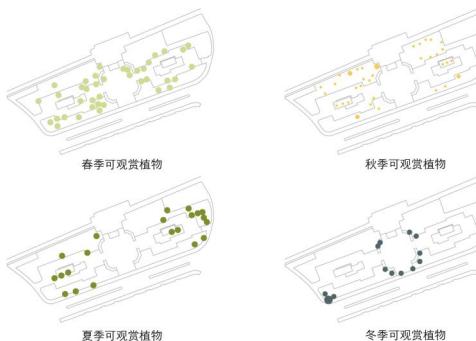
人群行为 & 需求分析 Behavior&Need analysis



人群以青少年、家长、老人为主，场地内活动设施单一，不能满足使用人群的多样需求。

The crowd is mainly consists of teenagers, parents and the elderly. The single activity facilities in the site cannot meet the diverse needs of the users.

植物分析 Plant analysis



■ 植物季相 Seasonal view of plants

编号	中文名	高度 (cm)	胸径 (cm)	冠幅 (cm)	单位	编号	中文名	高度 (cm)	胸径 (cm)	冠幅 (cm)	单位
1	悬铃木	1200-1400	50	831-900	株	1	金边黄杨	100-120	30-40	u ²	
2	香樟	701-750	36	501-750	株	2	八角金盘	60-70	30-40	u ²	
3	白兰	601-650	13	401-450	株	3	数叶珊瑚	100-130	30-40	u ²	
4	广玉兰	600-700	20-25	500-600	株	4	大叶女贞	60-70	30-40	u ²	
5	罗汉松	601-650	10	301-350	株	5	红花继木	60-70	30-40	u ²	
6	栾树	550-600	12	301-350	株	6	龟甲冬青	70-75	30-40	u ²	
7	银杏	601-650	12	301-350	株	7	鸡爪槭	70-75	30-40	u ²	
8	荷花木兰	500-600	10-15	300-350	株	8	蔷薇	100-110	30-40	u ²	
9	桂花	601-650	10	401-500	株	9	红叶石楠	100-120	30-40	u ²	
10	鸡爪槭	201-200	20-25	350-390	株	10	红叶石楠	100-120	30-40	u ²	
11	樱花	121-150	20-25	201-250	株	11	南天竹	40-50	30-40	u ²	
12	合欢	251-300	12-14	250-300	株	12	海桐	211-300	30-40	u ²	
13	桂花	201-300	8-10	250-300	株	13	火棘	40-50	30-40	u ²	
14	桂花	350-400	12-14	301-400	株	14	碧桃	150-200	30-50	u ²	
15	紫薇	151-200	4-12	251-300	株	15	月季	100-200	30-50	u ²	
16	朴树	361-380	12-14	301-330	株	16	月季	100-110	30-40	u ²	

大致植物苗木表



■ 苗木表 Nursery stock table

SWOT 分析 SWOT analysis

优势

- 1.地理位置优越，位于西湖景区、商圈、政府办公区和文化设施的交汇处
- 2.交通便利，通达性高，公共交通设施完善
- 3.文化历史底蕴深厚
- 4.广场空间较大，场地开阔

机会

- 1.临近青少年宫，家长接送孩子上下课等待时会频繁使用场地
- 2.临近西湖和青少年宫，场地的知名度高，人流量大，有持续吸引力
- 3.使用人群包括少年儿童及家长，老人等，对场地更加丰富的使用功能有较大需求

劣势

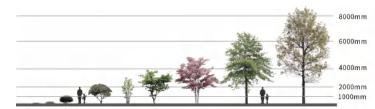
- 1.场内地内设施老化
- 2.广场空间类型单一，功能简单
- 3.场内地内无障碍设施数量过少
- 4.公共自行车侵占场地，场地周边停车泊位堵塞出入口交通

威胁

- 1.周围景观功能分区日趋细化，休闲娱乐等功能丰富完善，一定程度上分散人流，降低了场地的吸引力和活力

少年宫广场存在一些设施、空间营造上的不足，未来发展需求不断增加，需要综合考虑场地内各项要素进行综合规划设计。

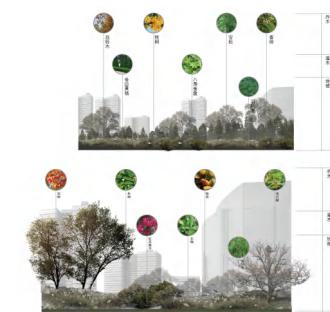
There are some deficiencies in the construction of facilities and space in the square, with increasing future development demand, it is necessary to comprehensively consider various elements in the site for comprehensive planning and design.



■ 植物高度 Plant height



■ 植物林冠线 The plant canopy line



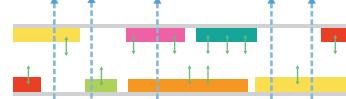
■ 植物组团 Plant group

■ 设计拆解 Design And Dismantling



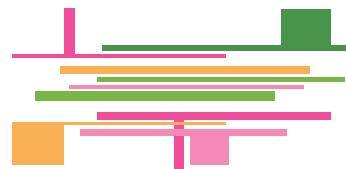
A、横向舒展—保留广场整体的延展性，通过不同层次的组合，让场地关系丰富

A. Horizontal extension -- retain the overall ductility of the square and enrich the site relationship through the combination of different levels



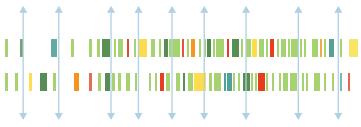
B、纵向分割—利用通道和小流线，分割公共性和相对私密性，活跃场地气氛

B. Vertical division -- the use of passageways and small streamlines to separate the public and the relative privacy and activate the atmosphere of the site



C、复层绿化—利用多层次、多颜色的植物配置优化和串联各个空间

C. Multi-layer greening -- use multi-layer and multi-color plants to optimize the configuration and connect each space



D、节奏韵律—利用植物和空间关系的疏密体现整体场地的节奏感

D. Rhythm -- the density of the relationship between plants and space reflects the rhythm of the whole site



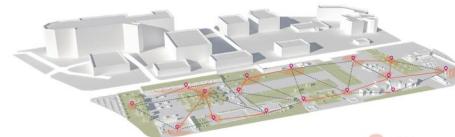
■ 功能分区图



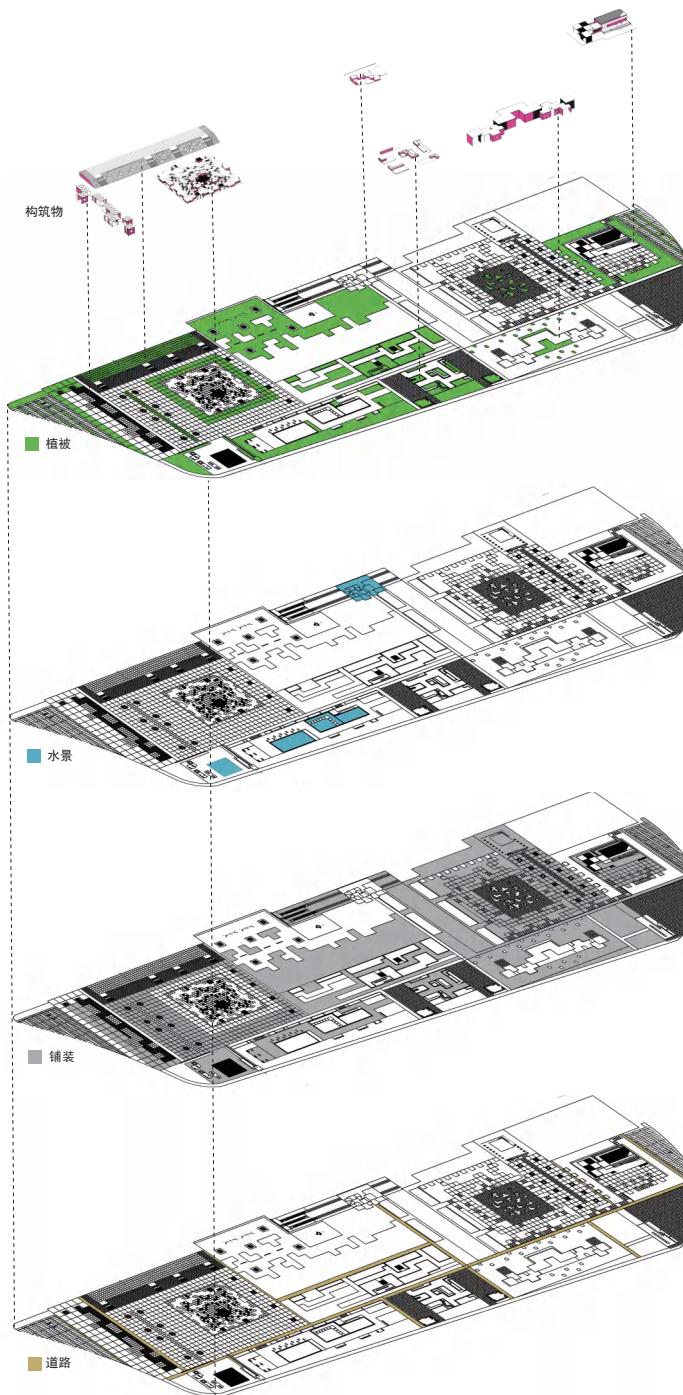
■ 空间感受图



■ 基础设施布点



■ 视线分析图

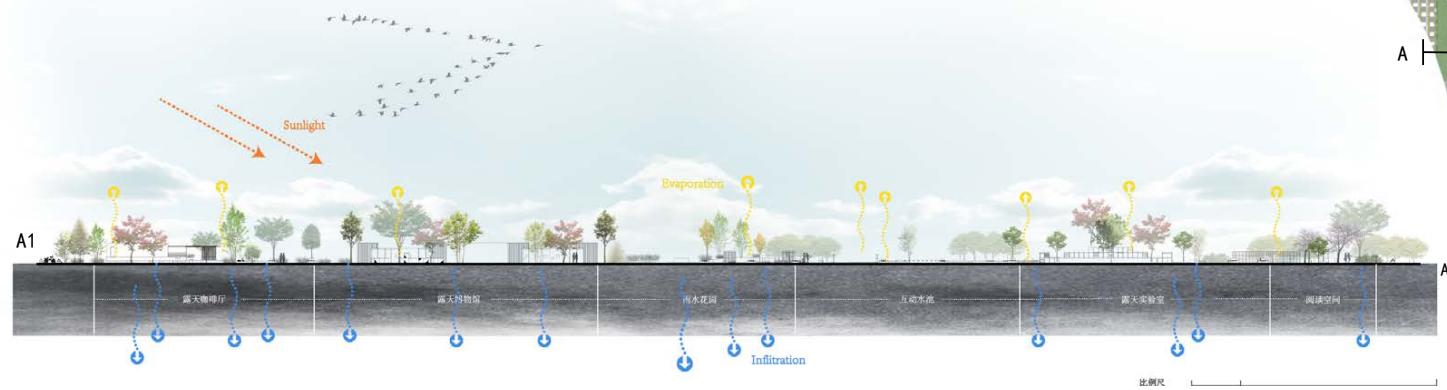


通过设计推演，根据空间关系、动静节奏、视线角度、功能设施、绿化配置、灯光配置等部分展开，整体围绕重要的功能节点构成并围绕其产生活动与休憩的空间，空间节点的排布产生一定的路线与叙事结构，让人们在空间中体会到不一样空间属性和空间风格，同时也使得人们的浏览路线变得更加丰富和具有自主性。

Deduction by design, according to the spatial relations, the rhythm of movement, the line of sight Angle, function facilities, greening configuration, lighting configuration sections, such as overall around the important function of nodes and around its activities and leisure space, the space of node configuration produce certain route and the narrative structure, let people experience the different spatial properties in the space and space style, at the same time also makes people become richer and browse route has the autonomy.

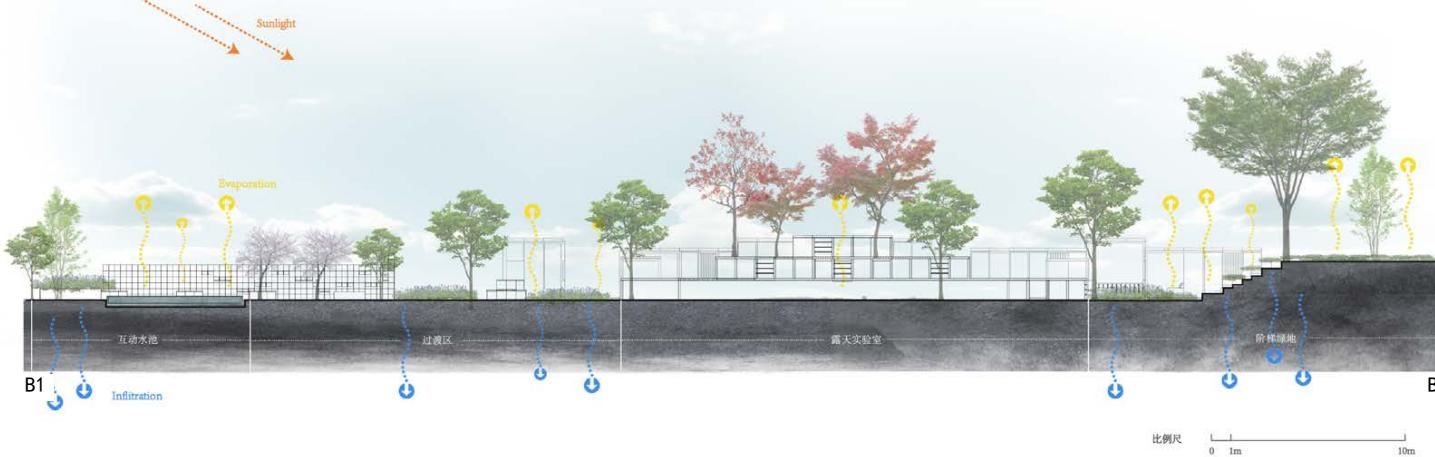
剖面图 Profile Map

■ 横向剖面图 Horizontal Profile Map



整体场地设计较为平缓，通过构筑物与植物的共同营造，使场地形成高差起伏，让人在进入广场空间时，获得丰富的多感官体验。
The overall design of the site is relatively gentle. Through the joint construction of structures and plants, the site will form a fluctuating height difference, allowing people to get rich multi-sensory experience when entering the square space.

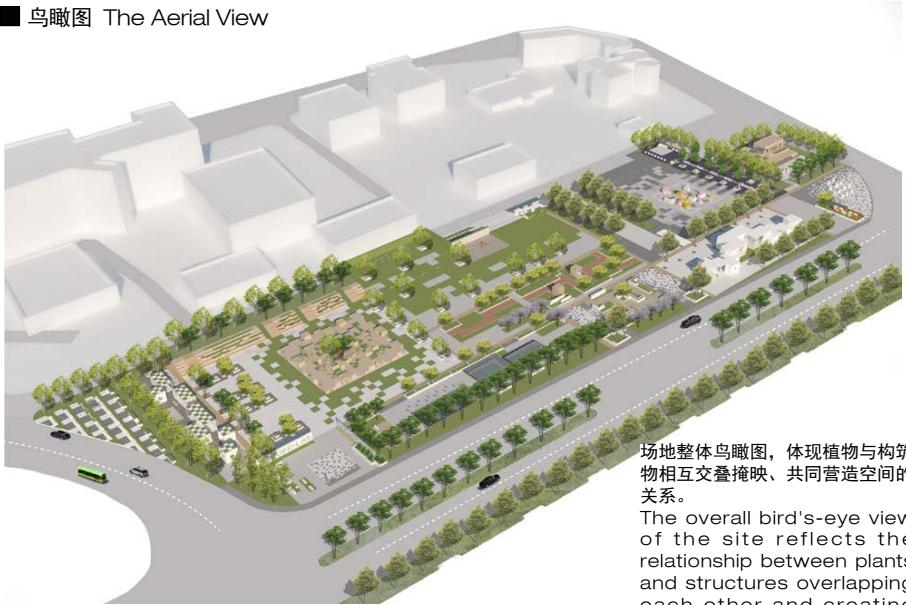
■ 纵向剖面图 Longitudinal Profile Map



整体纵向剖面，体现丰富的构筑物层次、植物与构筑物的掩映关系，空间具有深度，能够吸引人们的兴趣。
The overall longitudinal section, reflecting the rich structure level, the relationship between plants and structures, has a depth of space, which can attract people's interest.

■ 鸟瞰图与总平面图 Aerial View & Site-Plan

■ 鸟瞰图 The Aerial View



场地整体鸟瞰图，体现植物与构筑物相互交叠掩映、共同营造空间的关系。
The overall bird's-eye view of the site reflects the relationship between plants and structures overlapping each other and creating space together.

■ 平面图 The Site-Plan



■ 故事版 Storyboard



7:00 阅读空间
7AM The Reading Space



8:00 晨跑、跳舞
8AM Morning running and dancing



9:00 停车上班
9AM Parking to Work



10:00 接送孩子
10AM Receive and send off kids



13:00 露天实验室
1PM The Outdoor Laboratory



14:00 林下空间
2PM Under forest space



15:00 互动水池
3PM The Interactive Pool



16:00 小朋友放学
4PM After school



17:00 咖啡店
5PM The Cafe



17:00 雨水花园
5PM The Rain Garden



18:00 广场活动
6PM Plaza Activities



18:00 博物馆
6PM The Museum

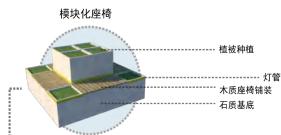
分区设计 Node of CUBE-LAB

■ 露天实验室 The Open-air Laboratory

■ 露天实验室效果图

攀爬构筑物与植物相结合，让儿童在游乐玩耍的同时感受亲近自然的美妙；构筑物下方可进入，上方透光，增强玩耍的趣味性。

The combination of structures and plants allows children to feel the beauty of being close to nature while playing. Children can enter into the structure which enhances the fun of playing. Meanwhile, the sunlight can shine through the climbing facilities.



■ 阅读空间效果图

■ 跌水区效果图



■ 露天实验室平面图



■ 秋千沙坑区平面图

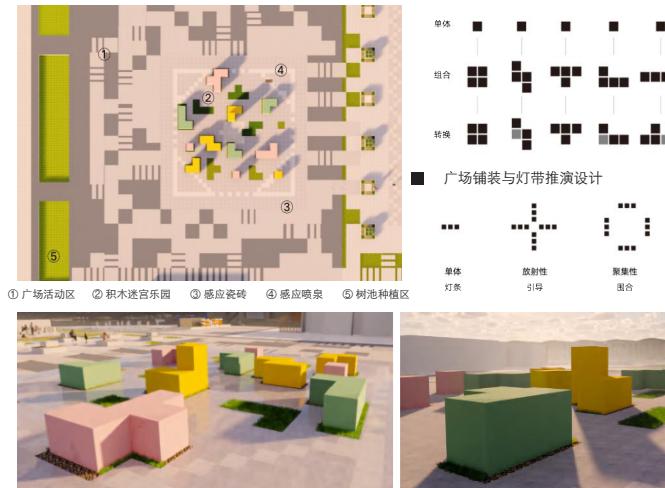
跌水区高 2.5m，长 15m 左右，区域主要利用方形大理石块组合的方式，形成上下左右相互交错高低起伏的跌水体系。跌水方块向后延伸，以种植池的方式呈现。

The waterfall area is 2.5m high and 15m long. The area mainly uses a combination of marble cubes to form a falling water system with ups, downs, left, and right. The cubes in this area extends backwards and appear as a planting cube.

■ 大广场 The Grand Plaza



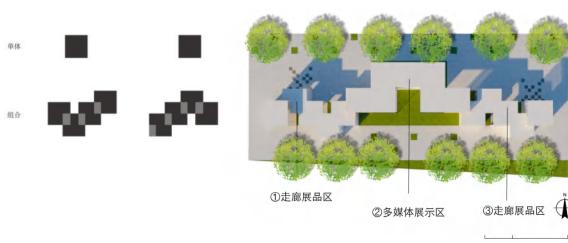
■ 大广场平面图



积木迷宫区域中，积木由金属制成，并采用圆形点状镂空设计。通过组合、转变1000*1000*1000的积木模块，形成场地特色构筑物。为了让软硬地衔接的更加流畅，一些积木块用平面草坪替代，在构筑物边缘用条状鹅卵石柔化边界；600*600的灯带，青石，花岗岩的结合对场地进行分割和路线引导。

In the maze area of the building blocks, the building blocks are made of metal and have a circular dot-shaped hollow design. By combining and transforming the building blocks of 1000 * 1000 * 1000, the characteristic structure of the site is formed. In order to make the soft and hard connection more smooth, some blocks are selected to be replaced by flat lawns, and the edges of the structure are softened by strip cobblestones. The combination of 600 * 600 light strips, bluevstone and granite divide the area and route.

■ 露天博物馆设计推演



场馆运用方块进行嵌套的模式，在纵向维度上构成高低起伏的天际线。走廊展品区以玻璃展柜为主，多媒体展馆设“虚拟互动魔镜”，形成互动体验的投影模式。外围间隔种植的方形草池、树池，打破场地过于大面积的硬质感。

The venue uses squares to form a undulating skyline in the longitudinal dimension. The corridor exhibit area is dominated by glass showcases. The "Virtual Interactive Magic Mirror" is set in the multimedia exhibition hall to create a projection mode of interactive experience. The square grass ponds and tree ponds planted at intervals around the outside break the too large area of the hard texture.



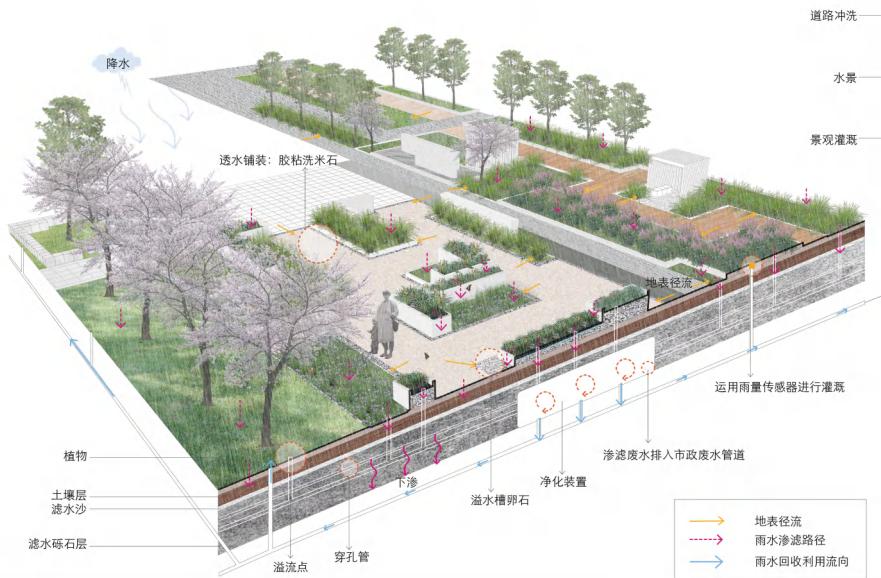
■ 露天博物馆 The Open-air Museum

■ 雨水花园 The Rain Garden

■ 雨水花园平面图



■ 雨水花园效果图



雨水花园配置大量耐水湿植物，营造一个观赏性较强的通道步道景观的同时，起到增加场地雨水下渗、调节小气候，增加场地雨水下渗，进行雨洪调节的作用。同时通过雨水花园的过滤、收集、净化后，雨水能够被再次作为景观灌溉用水和水景供水使用。

The rainwater garden is equipped with a large number of wet-tolerant plants to create a more ornamental walkway landscape. At the same time, it can increase the infiltration of rainwater on the site, adjust the microclimate, increase the rainwater infiltration, and adjust the flood. After filtering, collecting and purifying, the rainwater can be used again as landscape irrigation water and landscape water supply.

■ 互动水池 The Wading Pool

感应式喷泉水景、弧形水景、水上汀步营造了场地内多样的亲水体验形式。林下空间布置座椅，能够提供休憩、看护功能；曲折动线增加场地的行走趣味。

Inductive fountain, curved water features, and water steps create a variety of hydrophilic experiences. The understory space is equipped with seats to provide rest and care functions; the zigzag line increases the fun of walking on the venue.



■ 互动水池效果图



■ 互动水池效果图

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