TWELVE HOURS • TWENTY-FOUR SOLAR TERMS

——Beijing Bell Tower Bay Streetscape Design

PROJECT STATEMENT

The project is located in the Bell and Drum Towers area at the northern end of the old city of Beijing. With the application of the central axis of the old city for World Cultural Heritage status as the backdrop, the project aims to renovate and enhance the public spaces in the Bell and Drum Towers area. The design deeply explores the traditional concept of time and space embodied in the Bell and Drum Towers, taking "the Twelve Earthly Branches and the Twenty-Four Solar Terms" as the thematic clue. It strives to enhance the spatial quality of the hutong through the expansion of pedestrian spaces, the reorganization and activation of street interfaces. Additionally, it aims to improve the ecological quality of the hutong through greening enhancements and rainwater management. By employing landscape storytelling and cultural empowerment, the project highlights the unique characteristics of the site, ultimately achieving a balance between the commemorative and daily use of the public spaces in the Bell and Drum Towers area.

PROJECT NARRATIVE AND CONTENTS

PROJECT BACKGROUND

The project is located in the Bell and Drum Tower area at the northern end of the central axis of Beijing's old town, which is also the starting point of the Beijing Cultural Exploration Route themed "Appreciating the Grandeur of Beijing along the Central Axis." The central axis of Beijing, originating in the Yuan Dynasty and taking shape in the Ming Dynasty, features a city layout with a prominent central axis and symmetrical wings, which is the most distinctive characteristic of Beijing's urban landscape. From the Bell and Drum Tower at the northern end to Yongding Gate at the southern end, the central axis of Beijing spans several urban landmarks, covering a total length of 7.8 kilometers, making it the longest and most intact ancient urban central axis in the world. It can be said that the central axis of Beijing is not only a spatial axis but also a cultural axis. In recent years, Beijing has actively promoted the application of the central axis for World Cultural Heritage status, and in 2020, the "Three-Year Action Plan for the Protection of the Application of the Central Axis of Beijing for World Cultural Heritage" was officially issued. The project aligns with the comprehensive environmental improvement task proposed in Article 27 of the Plan, focusing on enhancing the public space around the Bell and Drum Tower to support the application for World Cultural Heritage status and the revitalization of Beijing's old city.

The Bell and Drum Tower in Beijing is not only an important landmark building on the central axis but also a timekeeping center in ancient times, closely related to the daily lives of the people in the city. The drum was used for commands, and the bell for transmitting sound. In ancient times, people followed the sound of the morning bell and evening drum, working at sunrise and resting at sunset. Meanwhile, in traditional Chinese calendar systems, the twelve hours of the day correspond to the twenty-four solar terms, influencing the daily lives of thousands of households. They are not only a guide for agricultural activities but also a time indicator for people's daily lives. The hours and solar terms are a crystallization of the wisdom of the ancients and a reflection of traditional worldviews. Therefore, the design takes "the twelve hours and twenty-four solar terms" as a clue, integrating traditional time culture into the site.

STATUS AND DESIGN DESCRIPTION

In the past renovation process of the Bell and Drum Tower area, in order to ensure the neatness of the square and block out the chaotic residential houses at that time, almost continuous walls were built outside the alley streets. The space between the walls and buildings is now filled with debris and garbage. In addition, the plazas and street spaces on both sides of the Bell Tower are occupied by motor vehicle parking, seriously affecting the use of public space around the Bell and Drum Tower. The design proposes to demolish the existing outer walls, gaining approximately 1,600 square meters of public space, and relocating the parking area, gaining approximately 1,900 square meters of public space, totaling approximately 3,500 square meters.

Addressing issues such as negative space, poor ecological environment, and lack of prominent cultural characteristics in the current site, three major strategies are proposed: spatial enhancement, ecological guidance, and cultural empowerment. At the spatial level, demolishing walls, relocating parking, releasing pedestrian and plaza spaces, and integrating with the renovation of street-facing buildings to implant commercial service formats, stimulating spatial vitality; at the ecological level, retaining existing large trees, adding corner greening, setting up rainwater gardens, and enhancing the ecological environment; at the cultural level, combining the design theme of "the twelve hours and twenty-four solar terms," forming distinctive site nodes through design paving, structures, and artistic installations, highlighting the characteristics of the Bell and Drum Tower site.

According to the chronological order, the design creates a total of twelve nodes, each corresponding to one hour and two solar terms. The main design elements of each node include seasonal-related featured gratings or cultural installations, paving, unified logo signage, and plant landscapes. Taking the Weishi Plaza as an example, the plaza interface is formed through greening and gratings. The Weishi corresponds to the solar terms of Great Heat and Autumn Begins, so gratings with lotus and maple leaf patterns representing the characteristics of these solar terms are designed, which not only show-case cultural characteristics but also block out visible external facilities such as air conditioners and meter boxes on the exposed building exterior walls due to the demolition of the walls, achieving a beautiful and unified street facade. The design retains existing large trees and designs rainwater gardens at the boundaries of the walls, achieving rainwater management while also corresponding to the rainy solar term characteristics between summer and autumn. In terms of paving, cicada patterns are designed and embedded in the tiles, adding interest.

PROJECT SIGNIFICANCE

The design aims to achieve the spatial improvement of hutong by expanding pedestrian spaces, tidying up and activating street interfaces, improve the ecological quality of hutong through greening enhancement and rainwater management, highlight the site characteristics through landscape narrative and cultural empowerment, and ultimately achieve the unity of memorial and daily use of the public space in the Bell and Drum Towers area.

Location Analysis

The project is located in the Bell and Drum Tower area at the northern end of the central axis of Beijing's old city.



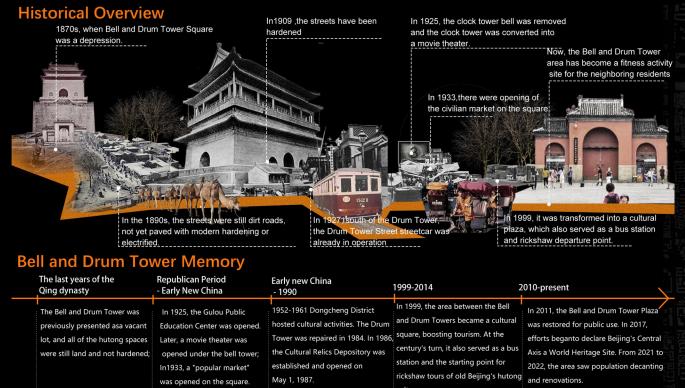




Historical Development

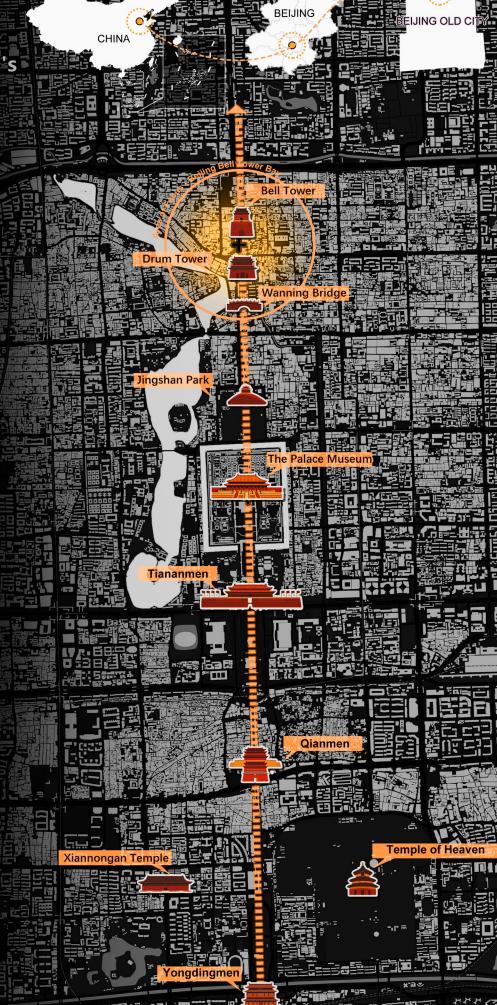
In recent years, Beijing has actively promoted the application of the central axis for World Cultural Heritage status. The Bell and Drum Tower area has vigorously carried out public space renovation by combining population decongestion and building replacement.

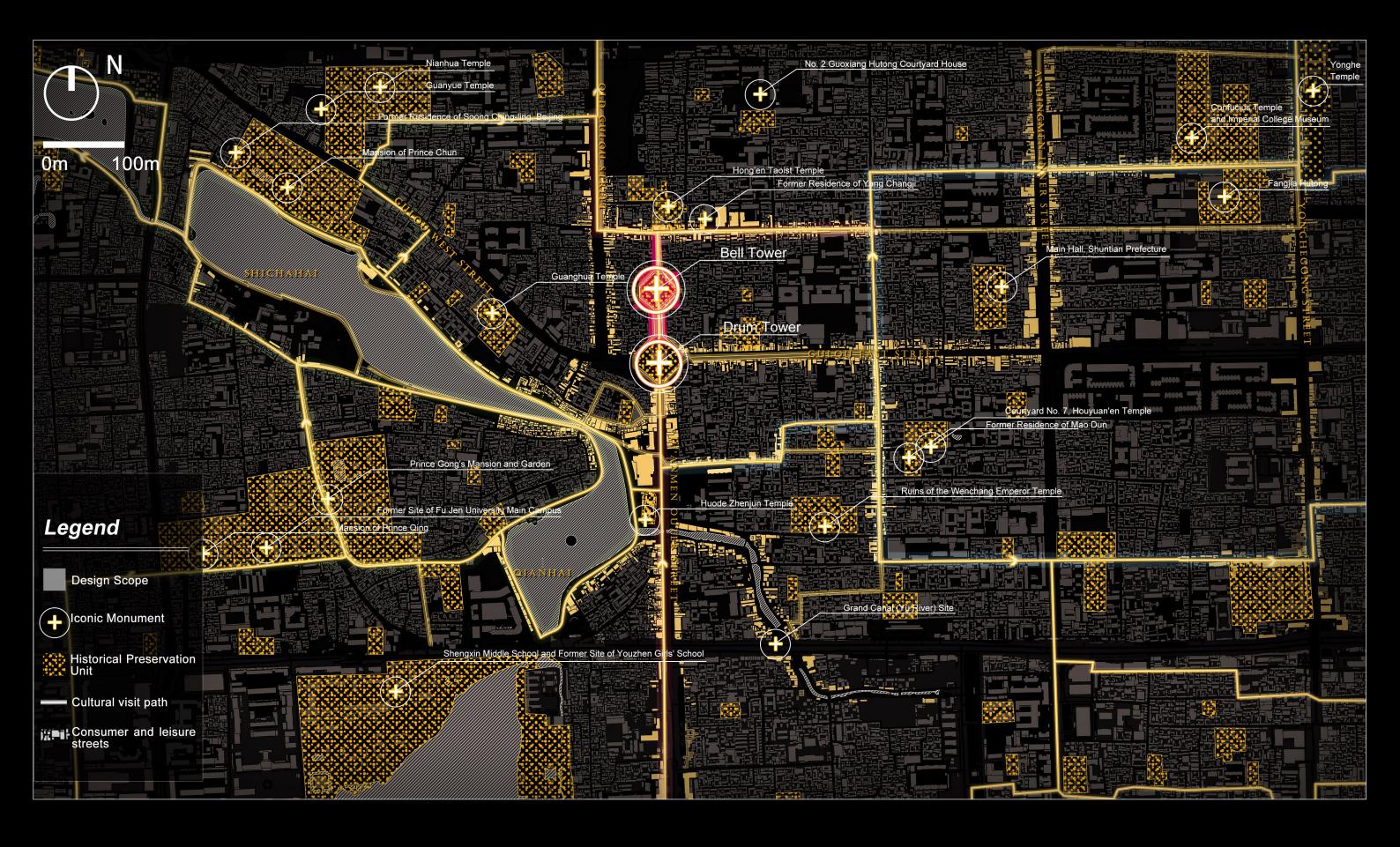




The Context of History

Comparison of the 18th Century Location And Background

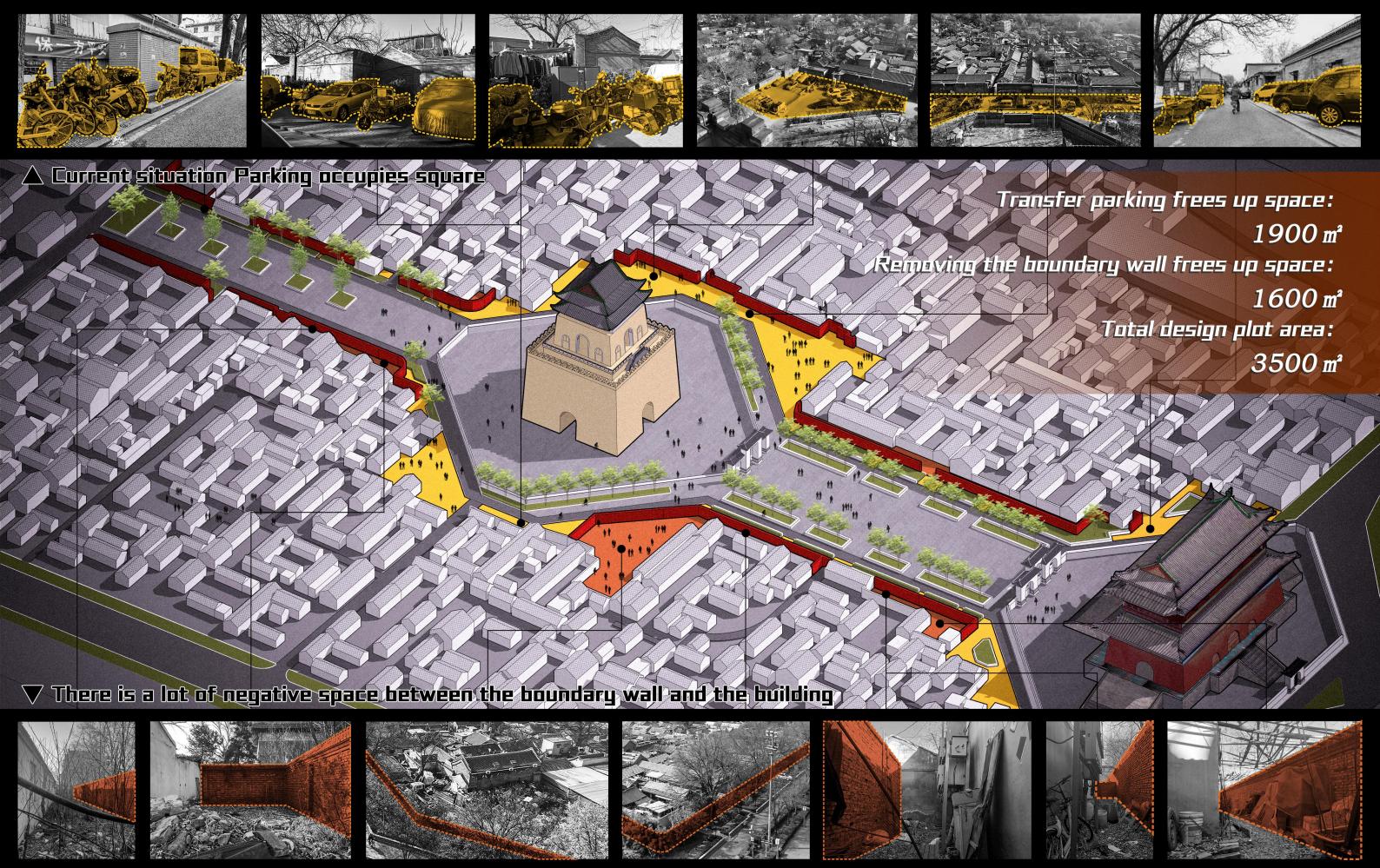




The Commemorative and The Everyday

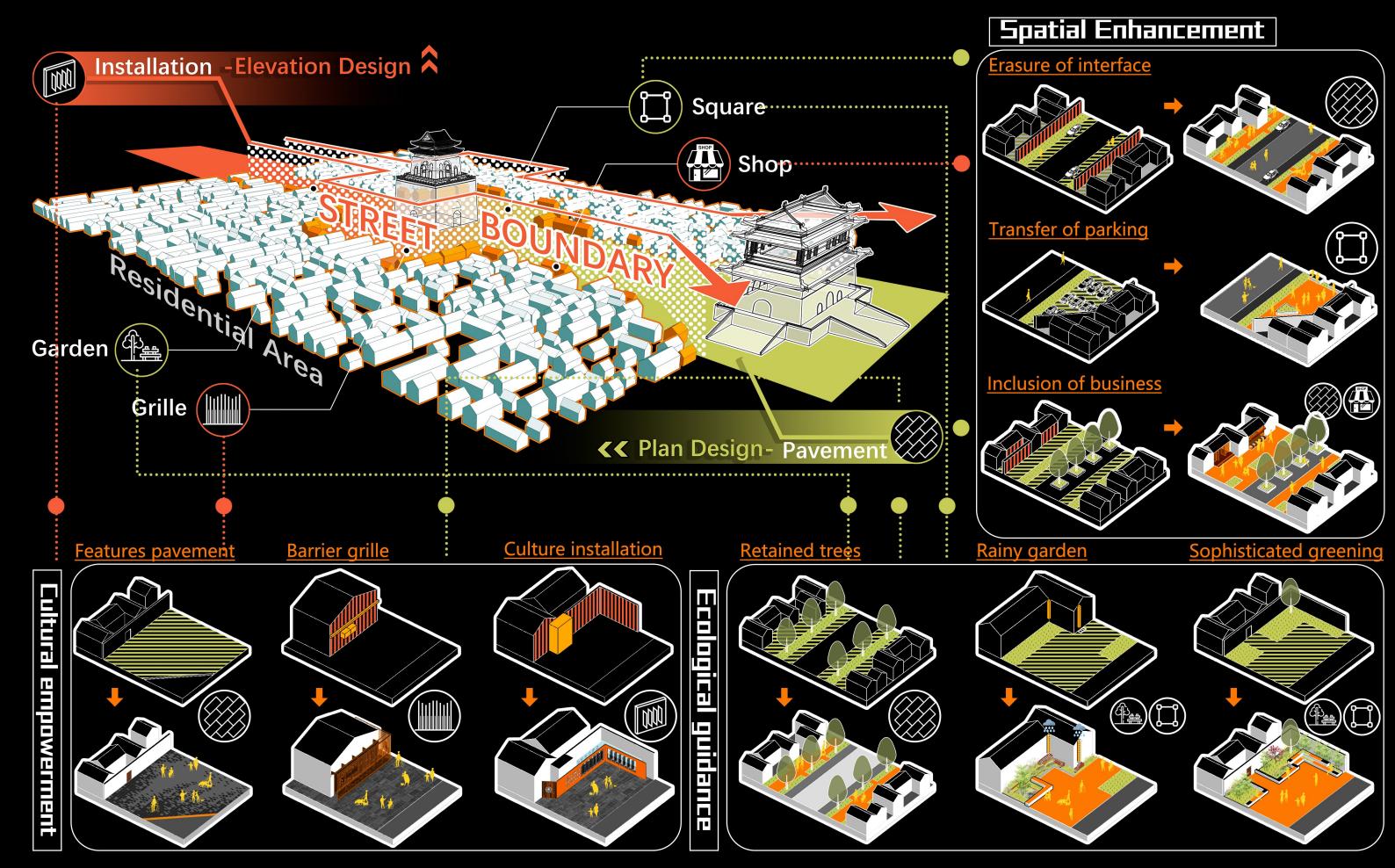
The Bell and Drum Towers are landmark buildings on the central axis of Beijing's old city and traditional timekeeping centers, closely related to the daily lives of the common people. They are also significant nodes on Beijing's famous cultural exploration routes.





Current Site Conditions

There is a large amount of negative space between the outer walls of the alley streets and the building courtyard walls. Disorganized parking occupies valuable street and square space in the old city. The design involves removing the outer walls and relocating parking functions, releasing approximately 3,500 square meters of public space.



Design Strategy

The spatial improvement of the hutong is achieved through the expansion of pedestrian space, the organization and activation of street interfaces. The ecological quality of the hutong is enhanced through greening improvements and rainwater management. The site characteristics are highlighted through landscape storytelling and cultural empowerment.



Wu • summer solstice,5light Heat

Wei • Great Heat, Start of Autumn

Shen • the End of Heat, White Dew

You • fall equinox,Cold Dew

Xu • First Frost, Start of Winter

Hai • Slight Snow,Great Snow

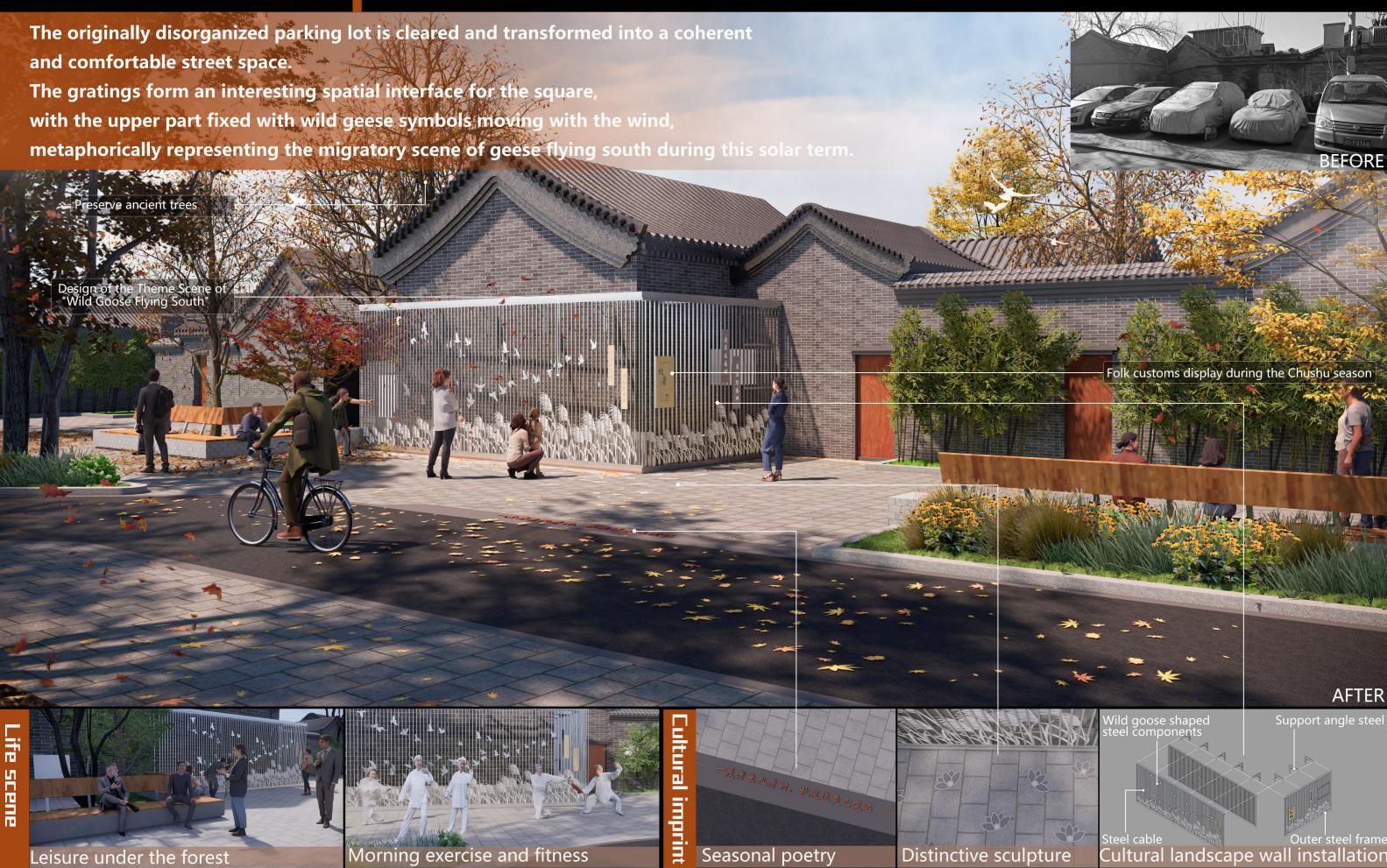
Yinshi、Maoshi and Chenshi Square



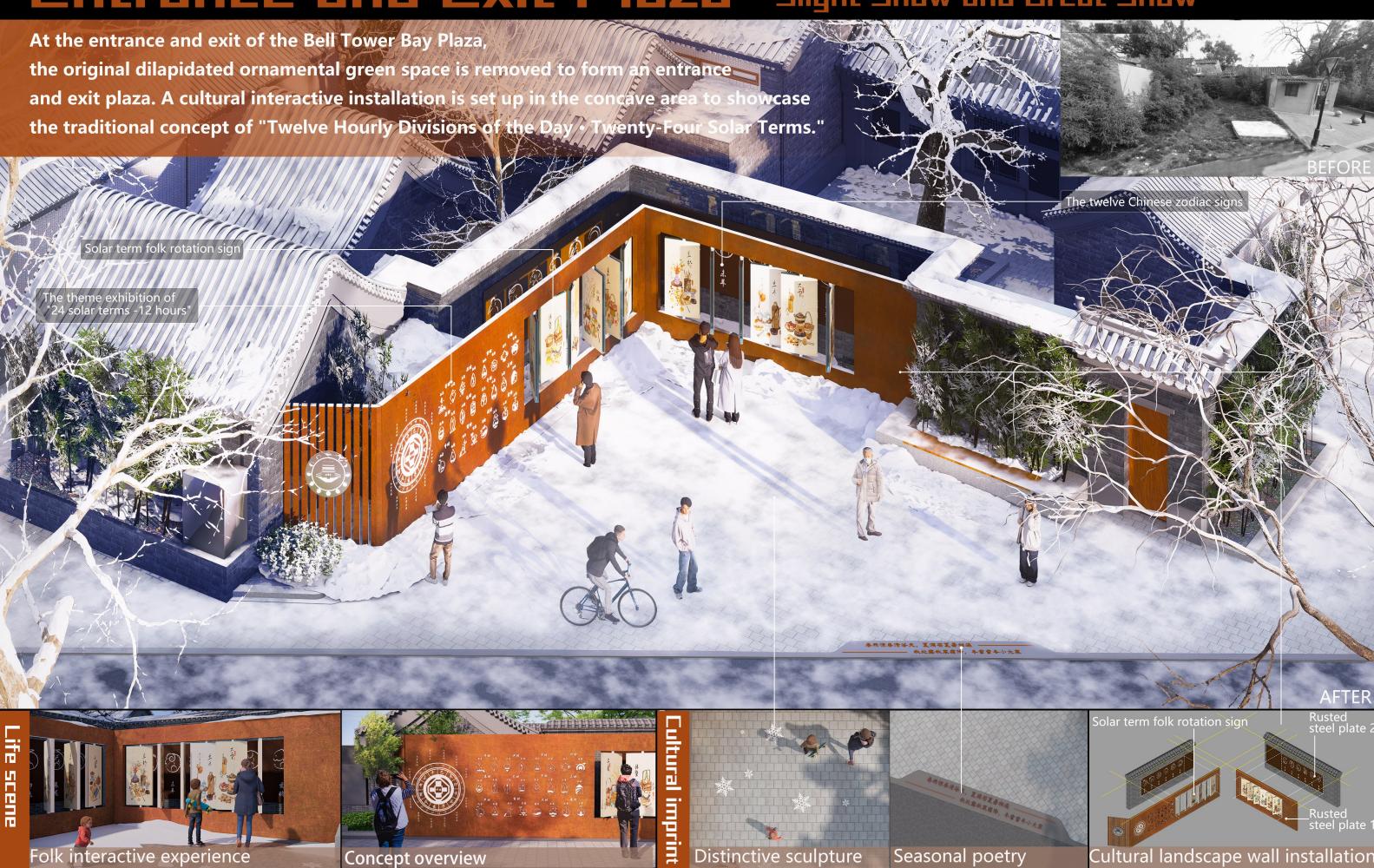
Weishi Square • Greater Heat and Beginning of Autumn



Shenshi Square • Che End of Heat and White Dew



Entrance and Exit Plaza · Slight Snow and Great Snow



Xu Shi Street • First Frost and Beginning of Winter

