

Analysis and Interpretation of the Protection of Ancient Buildings in Urban Design

Enmao Qiao, Qi Ding, Dawei Shang, Zhiguo Hou

Inner Mongola Technical College of Construction

ABSTRACT. *Urbanization construction is a game between reinforced concrete and the old quarter. The protection of ancient buildings in urban construction has always been the major concern of the architectural design industry and urban planning. As one of the important roles in carriers of Chinese spiritual civilization, ancient architecture plays a very important role in the development of our country with rich cultural values. However, due to the lack of space for urban development, which affects the protection of ancient buildings to a large extent. This article will explore the strategies for the development of modern urban construction and the protection of the ancient building, and discuss the protection of ancient buildings in urban design.*

KEYWORDS: *Urban design, Protection of ancient buildings, National pride, Coordination*

1. Introduction

The existence of ancient buildings such as the Imperial Palace, Pingyao Ancient City, and Wuzhen shows us the splendid Chinese culture and the achievements of our ancestors in architecture and culture. Ancient architecture is like the carrier of the spiritual civilization of the Chinese nation, it has very important historical and cultural values in the contemporary era. However, in the increasingly modern urban design, the ancient buildings seem to be increasingly incompatible with urban construction. The relationship between urban modern construction and the protection of ancient buildings has increased the difficulty of urban planning, coordinated the relationship between the two which has become the top priority in urban design.

2. Urban Design for the protection of ancient buildings

2.1 Urban Design Neglects the Protection of Ancient Architectural Elements, Resulting in the Incompatibility between Ancient Buildings and Urban Style

The development of urbanization has promoted the intensive use of land, and high-rise buildings have become the main symbol of the city. However, in urban construction and development, we can easily find that the Chinese cities are becoming more and more similar. We can see that there is not much difference between the buildings in Nanjing and Jinan, which are all high-rise buildings one after another, and the only difference maybe is in Confucius Temple and Daming Lake. However, as the scenic spot of Daming Lake and the Confucius Temple in the old quarter, the large number of antique buildings also affects the display of urban characteristics.

The protection of ancient architectural elements in urbanization design leads to the cookie-cutter phenomenon of urban development in China, which seriously affects the display of urban cultural heritage. Ancient architecture carrying the historical and cultural characteristics of a place as an important form of exhibitions to urban and regional characteristics, such as the architecture in the Jiangnan Water Town which shows the exquisiteness of the region in the south of the Yangtze River, and the Beijing Imperial Palace shows the atmosphere and boldness of the northerners. The current urban design takes the mode of high-rise buildings design blindly, the forest of high-rise buildings surrounding ancient buildings, which makes it seems to be incompatible with the surrounding environment and violates the urban planning and the design discipline.

2.2 The Different Degree of Ancient Buildings Destruction Increase the Difficulty of Protection

Ancient buildings, no matter the wood structure or the other structures, have experienced different degrees of damage after the hundreds of years, the difficulty of repair and development of the ancient buildings are

extremely hard, which also increases the difficulty of the protection of ancient buildings in urban design. At the same time, in the process of design and construction of unbanning buildings, the major number of ancient buildings are located in the old quarter, so the urban construction is to radiate the surrounding area with the old quarter as the center, which makes the price of the land and the development value in old quarter are pretty high. This has also caused some real estate developers to destroy the old quarter's ancient buildings to rebuilding and development it as the purpose of making a profit. This kind of urban design and construction plan that all looking for profit leads to the ancient buildings in the city are either being demolition and reconstructed into antique buildings (such as Kuanhaoli in Jinan) or be decorated to affixed with modern decoration materials, which have seriously affected the value of historical and cultural of the ancient buildings, to cause a certain degree of damage.

3. Analysis of the Protection Strategy of Ancient Buildings in Urban Design

3.1 Developing Surrounding Environmental Design Around Ancient Buildings, Highlight Urban Features

Urban cultural features should be preserved. Therefore, we can integrate the protection of ancient buildings into urban constructions, design the surrounding environment according to the style of ancient buildings, so that the urban construction can be integrated with ancient buildings and highlight urban characteristics. Let us take the construction of Pingyao Ancient City as an example, according to the urban buildings we can see that the architectural characteristics of Ming and Qing dynasties are surrounded by its urban design, and attaches the preservation and inheritance of Jin merchants' cultural characteristics in its urban design. The design of the surrounding environment and architectural with the ancient architectural style, which highlighted the city's characteristics and enhanced the city's attractiveness as well.

3.2 Make Rational Planning for Urban Construction and Protection of Ancient Buildings, Prohibit the Excessive Development

For the development of the old quarter, the relevant departments should make rational overall planning of urban construction to protect our ancient buildings, evaluate the economic value and historical value of the reconstruction reasonably, and prohibit the excessive development of the old quarter. For instance, the residential area and whip refers to the street, lane, a former capital of ancient architectural complexes of Ming and Qing dynasties which is near Daming lake was preserved due to the reasonable planning of Jinan city government, who build the Finest Spring, and it is not affected by the construction of modern city, and still can show us the pattern of people's homes and picture from Ming and Qing dynasties. So in order to avoid the destruction of ancient buildings by some people who are looking for the short term interests, and to strengthen the protection of ancient buildings, the protection of ancient buildings needs the supervision and management from government departments, and the administrative means should be used as well, it has a great practical significance to the development of urban civilization with the rational coordination of urban construction and protection of ancient buildings.

3.3 Using VR Virtual Reality Technology to Enhance the Effectiveness of Ancient Building Protection

The Palace Museum used modern high-tech such as virtual reality technology to realize long-distance tours and online tours, which relieved the pressure on the passenger flow of the Palace Museum to a certain extent. This is also a kind of protection for ancient buildings. Therefore, in the urban design process, the relevant local departments can meet the requirements of the tourist sites through the restoration and repair of ancient buildings, open the ancient buildings for tourists to visit, and promote the development of the local tourism industry for the ancient buildings with development and utilization value,

However, for ancient buildings that are relatively fragile or have a low carrying capacity, in the process of development and utilization, we can use the high-tech VR virtual reality to realize the long-distance visits and exhibitions, giving substantial protection to ancient buildings and avoiding the damage to ancient buildings from excessive tourism development and so on.

3.4 Enhancing the Attention and Restoration of Ancient Building Protection

Urban design should emphasize the status and role of ancient buildings, and also the restoration and protection of ancient buildings. As an important symbol of urban culture, the restoration of ancient buildings requires more caution than others. In the previous restoration process of ancient buildings, there were often problems such as over-modification of repair methods and simple pursuit of repair speed, which led to serious damage to ancient buildings. Therefore, in the urban design process, it is necessary to strengthen the research on the restoration techniques of ancient buildings and to repair them in a way that is most in line with the construction methods of ancient buildings to prolong the life of ancient buildings.

4. Conclusion

The development of urbanization, like the rumble of bulldozers, has brought down the fruits of human civilization one after another. It is undeniable that urban development requires a large space. However, urban construction at the expense of ancient buildings will ultimately lose more than what we gain. Ancient architecture always plays an important role in China's history and culture. Different forms of ancient architecture in different regions are concrete manifestations of regional culture and regional characteristics. At present, as the acceleration of urban construction, the old quarter where ancient buildings are located has become the "hot potato" to many real estate developers, which has aggravated the crisis of ancient building protection. The protection of ancient buildings should be taken seriously by the local government departments. The design style does not need to be the same in the urban architectural design and urban planning and it can be carried out around the characteristics of ancient buildings. Furthermore, it is also necessary to develop the tourism of ancient buildings moderately to provide more protection to the ancient building. Modern high-tech technology will be used to carry out an online tour of ancient buildings as well according to its carrying capacity. In the process of repairing ancient buildings, we also need to pay attention to the ways and methods to avoid the modern restoration methods caused by the irreversible influence on ancient buildings. The protection of ancient buildings in the urban design should be widely concerned by the society because only by protecting the history and culture of the Chinese nation, we can provide the continuous spiritual and cultural support for urban construction and development.

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1)Study on classified Protection and Utilization of Historical buildings and districts-taking the screening of Historical buildings and districts in Wulanchabu City as an example,NJZY18255,Scientific Research funding Project for Colleges and Universities in Inner Mongolia Autonomous region.

2)Study on the Protection and Utilization in the Planning of Historic districts in Monan Mongolia-A case study of Wulanchabu area,18NDXT02,Project supported by the Cooperative Innovation Center for Cultural inheritance and Development of Mongolian and Northern ethnic minorities

3)Research on adaptability Renewal Mode of Rural Housing in Hohhot,NJZY18257,Scientific Research funding Project for Colleges and Universities in Inner Mongolia Autonomous region.

4)Study on the Distribution and types of Ancient buildings in Cultural relics Protection Units in Inner Mongolia,18NDXT02,Project supported by the Cooperative Innovation Center for Cultural inheritance and Development of Mongolian and Northern ethnic minorities.

References

- [1] Xin Li (2019). Research on basic problems in the protection of ancient buildings [J]. Green building materials, no.8, pp.192 + 195.
- [2] Yanrui He, Wei Wu (2016). Reflections on the protection of medieval buildings in urban design [J]. Caizhi, no.35, pp.262.
- [3] Dandan An (2014). Preliminary study on urban design methods for improving the protection of cultural relics and ancient buildings [D]. Zhengzhou University.