

Discussing on the Problems and Countermeasures of Urban Public Space Landscape Ecological Design

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Abstract

Public space embodies the essence of landscape environment, and ecological design is a process of mutual adjustment between landscape and ecology. The design of the environment and ecology reaches the minimum, reasonable use of the superior conditions given by nature, and maximize the minimum design of natural force, reflecting the relationship between people and nature. The regional particularity, sustainability and integrity of the landscape are expressed in the public space that is beneficial to residents, so that people can strengthen the protection of natural resources, let nature play a role, and reflect the concept of beauty in natural space.

Keywords

Landscape design; Ecological design; Urban public space; Natural protection.

1. Introduction

Public environmental space is a subject related to urban management, and it is the soul of the flow and movement of urban people. The landscape design of public space meets people's basic needs in daily life in the city, and is an important part of the city's internal environment, culture, city image, and ecological protection. Public space landscape design creates favorable conditions for communication between people, people and things, people and nature, and people and culture.

2. The Ecological Design of Urban Space

Ecological design has also become a green design or life cycle design. Ecological design activities can be summarized from two aspects. The first is to reduce the waste of resources, control design costs and achieve the concept of long-term sustainable development from the perspective of protecting the ecological environment. Second, from the perspective of urban development and business, reducing construction costs, increasing the number of urban landmarks, integrating green ecology into urban facilities, allowing users to feel natural participation, in order to improve the competitiveness of the city.

The urban public space landscape ecological design reflects the human pursuit of beauty, and also reflects the increasing improvement of people's living standards. The continuation of natural culture, the design of the living environment, the beautiful design form and the ecological function are fully integrated. Using nature itself, people are affected by nature subtly, and with daily life, people can experience the design that integrates nature itself, so that people can feel the sense of participation, experience and care of nature.

3. The Problems in Urban Space

In recent years, China 's rapid economic development, urban and rural public space construction gradually prosperous. The urban infrastructure construction has developed

rapidly, but the development speed has slightly exceeded the original design plan. In life, we can easily see that the construction of urban environmental function facilities lags behind the speed of urban development. As a modern urban and rural environment indispensable public space landscape design problems are gradually surfaced. It has obviously become an urgent problem to make people realize the impact of ecological environment on modern public facilities.

With the development of the city, the construction of public space landscape is gradually in progress, so that the quality of public environment has been significantly improved. While rapid progress can be made, the problems will also arise, and the main problems are as follows:

- (1) Blindly pursuing landscape forms while ignoring the design of nature itself.
- (2) Less green area and weak awareness of the impact of landscape ecology on the city;
- (3) Attach too much importance to economic development, regard the design of public space landscape as an accessory of the region, and make the design density beyond the appropriate range;
- (4) Similar to many cities in form, lacking local cultural characteristics and individuality;
- (5) the pursuit of formal beauty, but put people's behavioral needs in the second;
- (6) Spatial landscape facilities are only used for viewing, but residents have little sense of participation, and the landscape and people lack interaction and mutual feeling;
- (7) The function is single and straightforward, and the cultural grade is not high.

In summary, in the current public space landscape construction, there are quality problems and lack of consciousness. In the design should have the design idea, the implementation feasibility, the later management factor as well as the people ' s protection consciousness, manifests the design sustainability. The design subjects create activities, activities and content facilities strengthen places, and places attract subjects, while the design subjects are people-centered.

4. The Principles of Urban Space Ecological Design

High quality urban content construction is the goal pursued by designers. To achieve "high quality", we need to consider the whole. The complete design content is reflected in: no bare soil, hard or soft pavement covering; Provide adequate recreational facilities; There are enough green, soft pavement can be combined with small plants, so as to achieve sustainable ecology and the combination of people activities; There are specially-assigned maintenance management, can interfere with bad behavior. In planning, construction, management design and other aspects to achieve higher standards, among which planning and design is the most important.

The solution is to create a human-centered space for people to use and experience. In the design, implement the people-oriented central idea, consider what kind of design is needed by people, how to meet the needs and other fundamental issues, pay attention to the user's feelings and experience, as well as people's psychological feelings. Let the users of the environment experience the contact with the natural ecological landscape, have the feeling of participating in it, so that their own behavior is combined with the environment preset by the designer, into the public space facilities; In the designed space, it is moderately closed to form a semi-closed positive space, so that users can feel the sense of security brought by the site and also feel the sense of space.

5. The Countermeasures of Strengthening Urban Landscape Ecology

In order to strengthen the landscape ecology in urban space, strengthen the consciousness and form of ecological landscape, enhance the appreciation and appeal of space, and emphasize the importance of landscape ecological protection to human beings and the significance of harmonious coexistence of nature, the following points need to be done: The first is to

emphasize the superposition and accumulation of plants. First of all, we should understand the survival characteristics of plants, integrate plants reasonably, and make them into a whole and a combination, so that the collocation of plants should not be too isolated and single, with a sense of group induction and repeated sense of random arrangement, and highlight the dynamic trend of plants in the ecological environment. The second is to increase the form composition of green ecology and the superposition of levels to expand the user's information perception, so that users can feel the information of urban ecological cycle in the environmental space and experience the positive impact of "sponge city" on the urban ecological environment. Three is prominent distinctive landmark or scene on the vision, determine the center of the public space landscape, and reinforcement, as a result of the characteristics and function of the landmarks can represent the city, so it can contain or convey the cultural significance of the city, city landmarks is the creation of the perfect combination between natural topography and urban culture, Landmark in modern society is a collection of many functions in one compound noun, the meaning on the level of existing buildings, to urban planning and urban design has important influence, more important is the landmark has been integrated into city People's Daily life and emotion life, become the important factor of a city can not be ignored; The fourth is "protection - utilization - improvement" in the use of protection, in the use of improvement, in the improvement of protection. Strictly protect the ecosystem and biological habitat in the urban ecosystem, maintain the integrity of the ecosystem, protect the good water quality and ensure adequate water quantity in the urban landscape, ensure ecological security and biological habitat security, and maintain the biodiversity of the wetland ecosystem. The utilization is based on the existing urban and wetland ecological landscape, relying on ceramic culture, wetland culture, folk culture, farming culture, food culture, etc., with ecological tourism, recreation and wetland ecological cultural experience as the main body, to build the urban landscape construction of ecological protection and sustainable utilization development. Use the support and penetration of green plants to achieve the effect of close to nature, as far as possible to reduce the destruction of artificial breath to the balance of natural environment, make the environment more natural and harmonious. On the basis of maintaining the existing ecosystem ecology, improving the ecological quality and service function of urban wetland ecosystem, improving the ecological function of wetland and landscape function.

6. The Purpose of Strengthening Urban Spatial Landscape Ecology

Ecological landscape construction is to make the environment have a sustainable cycle. The landscape design of sustainable development cycle, using essentially the natural regeneration and environment of self-renewal ability, make people less intervention in the development of the nature itself, follow the rules of the growth of nature itself, using the environment of their own conditions, integrated into the design method of the least, fully show the natural, environmental and human factors such as natural sense of design and beauty. The design of sustainable landscape development required by people follows the law of nature to achieve sustainable development, which reflects the value of culture, land and current cultural heritage, maintains the continuation of human history and culture and inheritance, and reflects that human social assets need to be saved and cherished. Urban ecological landscape design needs users to feel a sense of belonging and identity to design works. Sustainable landscape needs to be a landscape that has a positive recycling effect on the ecological environment, reasonably saves costs economically, and is conducive to users' cultural experience and urban ecological development.

7. Conclusion

Urban public space has a vital influence on the quality of environmental landscape and the characteristics of cultural landscape. The design subject creates the form of activity, the form of activity strengthens the place of use, and the place of use attracts the design subject, which plays the role of complementing and influencing each other. Design content, the combination of strengthened form of information, enhance the look of a space and appeal, distinctive scenery on outstanding vision, applies the principle of clustering repeat to form continuum, in the form of increased levels, expand feeling information capacity, the form element handover clear, structure is distinct, emphasizes the dynamic effect, attaches great importance to the cumulative effect, make the form element has a moderate amount of repetition. To protect the historical culture from destruction, restrict the environmental landscape, inherit the traditional cultural characteristics of the city, highlight the individuality of the city and the urban area, show the uniqueness of each urban area, achieve cultural inheritance and continuation, eliminate the negative development law of "thousands of cities are the same". The construction and maintenance of high quality urban public space need many factors to cooperate with each other to provide lasting high quality services for urban social and economic development and public social life. In the rapid transmission of information, artistic styles blend, functional requirements of diverse, ideological and cultural mix today, the whole society is developing with each passing day, for urban landscape design to provide more design means and design elements, which is also in line with the characteristics of the diversity of contemporary urban landscape style.

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