

Analysis on Characteristics of Plant Landscape Design in Modern Urban Landscape Design

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Keywords: Modern City, Landscape Design, Plant Landscape, Design Features.

Abstract: With the rapid development of modern society in our country, people's material life is more and more abundant, and the requirements for public environment are gradually improved. At this stage, people have not only satisfied with the clean, clean and hygienic public environment, but also put forward the concept of green, healthy, ecological and environmental protection public environment construction. Plant landscape design is an important component in modern urban landscape design, which cannot only beautify the urban public environment, improve the level of landscape design, but also further optimize the urban atmosphere, soil, water environment, and play a good role in maintaining the ecological environment. This paper briefly analyzes the important value and basic characteristics of plant landscape design in modern urban landscape design, and probes into the path of plant landscape design in modern urban landscape design.

1. Introduction

Plant landscape design refers to the design, combination and configuration of shrubs, trees, vines, flowers and other plants according to their lines, growth characteristics, colors, forms and other elements, so as to form a plant landscape area that can meet people's appreciation needs and beautify the urban environment. In the plant landscape design, the staff can show the sequential landscape directly through the plant landscape design, create the ornamental scenic spots, and maintain the ecological environment of the city area. In order to realize the value of landscape design and achieve the best effect, the staff should follow the basic design principles, ensure the suitable landscape, reflect the landscape function, pay attention to the landscape needs, so as to strengthen the overall landscape effect of the city, provide people with a good living environment, and meet the living needs and spiritual needs of the people in modern society.

2. The Important Value and Basic Characteristics of Plant Landscape Design in Modern Urban Landscape Design

2.1. Important Value of Plant Landscape Design in Modern Urban Landscape Design

In modern cities, as the seasons change, landscape plants in the city (as shown in Fig.1) will exhibit different characteristics, which is also due to the seasonal growth characteristics of the plants themselves. The growth characteristics of plants provide a prerequisite for the temporal changes of urban landscape. According to the growth of plants in different seasons, combined with different flowering and growth periods, reasonable allocation can realize the change of different seasons in the same region, produce different landscape effects, and promote the people in the city to feel the charm of the change of four seasons[1].

In the urban landscape system, because different plants have different colors and forms, the development of landscape design cannot only reflect the natural beauty of plant individuals, but also combine the actual situation and natural climate conditions of the region to optimize the allocation of plants to reflect the beauty of plant groups in urban landscape areas.

In addition, from the point of view of urban plant landscape design, the establishment of appropriate plant landscape areas in the city cannot only play the role of preventing wind and sand, conserving water sources and stabilizing soil and water, but also greatly reduce urban noise,

purifying urban air, reducing urban pollution, protecting people from radioactive light and maintaining people's health. For example, *Robinia pseudoacacia* can effectively reduce surface runoff, reduce surface velocity and conserve water; trees and shrubs can effectively reduce vehicle driving noise and maintain urban living environment[2].

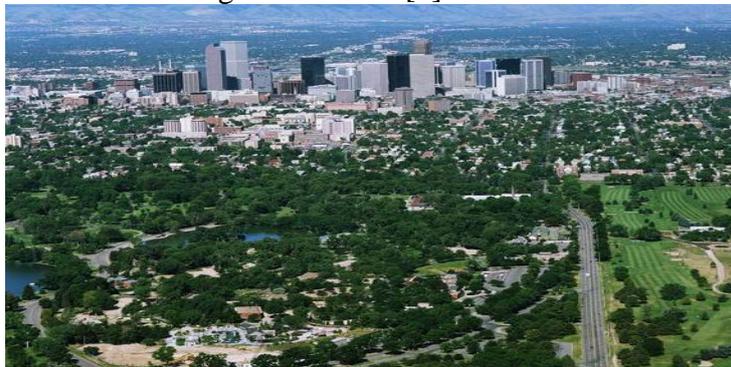


Figure 1 Urban landscape pictures

2.2. Basic Characteristics of Plant Landscape Design in Modern Urban Landscape Design

First, suitable landscape features. In plant landscape design, staff must recognize that "the growth of plants needs sunlight, water and air ", so it is necessary to consider the environment around the landscape design area synthetically and observe whether it has the plant growth conditions to meet the plant growth needs. Staff should combine with the local natural climate, adjust the soil structure and composition to create a good growth environment for plants; reasonable allocation, adjust plant growth and density, to ensure adequate plant growth space (as shown in figure 2), to avoid mutual influence between plants, so as to achieve the goal of plant landscape design.



Figure 2 Images of suitable landscape

Second, functional features. In plant landscape design, attention should be paid to the functional requirements of plant landscape in urban landscape design. In urban landscape design, the staff should consider the function of plant landscape design, consider the actual needs of plants in different design areas, and ensure that they can meet the functional requirements of plants in the process of landscape design.[3].

Third, landscape demand characteristics. Attention should be paid to the actual needs of plant landscape design in urban landscape design, not only to meet the needs of people for landscape plant application function, but also to meet the psychological and aesthetic needs of people, and to reasonably allocate plant landscape. On the one hand, the staff should follow the principle of "according to local conditions ", choose the tree species that can fit with the local actual environment (building, surrounding facilities, natural climate, characteristics of scenic spots), and ensure the consistency of tone and shape; on the other hand, follow the principle of " according to the time and conditions ", consider the characteristics of different periods of plant growth, consider the shape changes, optimize the design, and improve the integrity of plant landscape area.



Figure 3 Road tree landscape design pictures

3. The Path of Plant Landscape Design in Modern Urban Landscape Design

3.1. Integration of Plant and Architecture to Build a Good Living Environment

In the plant landscape design of modern urban landscape, the staff should integrate the plants with the architecture to form an integrated living area, construct a good living environment, and provide a good life experience for the urban residents. In the design process, the staff should consider the color change, the line change and the inner charm of the plant, increase the overall aesthetic sense of the building through the plant landscape design, and form a dynamic and balanced landscape system. For example, if there are more ancient buildings in the landscape design area, such as: red brick old-style buildings, we can properly use the plants such as mountain-climbing tiger, ground brocade and other plants to carry out vertical greening design to promote the plants and buildings to form a whole system, reflect the beauty of natural harmony, but also reflect the value of ancient buildings, and provide a pleasant municipal picture for people to see.[4].

3.2. Integration of Plant and Environment to Highlight Plant Design Value

In the plant landscape design of modern urban landscape, the staff should combine the plant landscape with the surrounding overall environment, and take the external environment in the region as the basic framework and landscape design support to highlight the design sense of plants. For example, if there are a large number of objects such as rocks which cannot be transferred and removed in the area, the mountain and stone environment can be used as the basic landscape design framework, and the trees and shrubs can be properly matched to form a smart picture, increase the overall aesthetic feeling, form a scattered plant landscape plants, and highlight the landscaping effect of plants on the rocks and the surrounding environment.

3.3. Integration of Plant and Sketch, Emphasis on Plant Landscape Function

In the plant landscape design of modern urban landscape, the staff should combine the plants with the existing sketch in the region to promote the integration of the two into a landscape system, to avoid the situation of contradiction and mutual exclusion, to give a negative example: the existence of cartoon sketch, in the design of the integration of a large number of pine trees, and other plants with strong lines and colors, produce a sense of contradiction, no sense of beauty, cannot reflect the value of plant landscape design. The staff should ensure that the relationship between the sketch, the plant and the surrounding environment is harmonious and stable, for example: add some shrub plants near the lighting street lamp to form a sense of spatial hierarchy and enhance the overall ornamental value of the region.

3.4. Use Trees and Flowers to Create Modern Diversity

In the plant landscape design of modern urban landscape, the staff should also use tree shape and

flowers to form a modern multi-plant landscape to improve the living standards of urban residents. According to the climate conditions of the region, staff can properly introduce trees with morphological aesthetic value, such as: cycad, palm, weeping willow, poplar, Metasequoia, locust, cypress, Yingchun and so on, to enable people to create associations through the shape of trees to form a rich morphological landscape. Staff can also properly introduce flowers and plants to create a rich landscape, such as: apricot,, cherry, peach, goose palm autumn, red sill paulownia, Camellia oleifera, golden nectarine, oleander, privet, hibiscus, magnolia, etc., and according to the season of its flowering, it can be configured to form the effect of "all the way to spring 04:00" to create a rich regional characteristics of urban plant landscape. In addition, the staff should grasp the primary and secondary structure of plant landscape design, not a large area of tile a plant, but to introduce a variety of plants to form a rich landscape, both to ensure its integrity, but also to have a sense of hierarchy and regularity.

4. Conclusion

To sum up, plant landscape design can further beautify the urban landscape and meet the needs of people in modern society for living environment. In the process of plant landscape design, in order to achieve the best beautification effect, the staff should combine the basic principles of landscape design, grasp the main points of landscape design, and put forward multi-level landscape design strategies, such as: integration with architecture, with environment, with sketch, reflect the value of plant landscape design, and emphasize the practical function of plant landscape. In addition, we should make use of the surrounding trees and flowers, grasp the characteristics of many designs, form the overall landscape system, create a diversified and multi-level plant landscape area, and promote the urban construction and development of our country.

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