

Research on the application of rural landscape in landscape architecture planning and design

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Abstract: The function and value of rural landscape is very important in garden planning and design. It is a special landscape type. With the increasing demand for rural tourism and leisure, the acceleration of urbanization and the rapid growth of urban population, the planning and design of rural landscape has been paid more and more attention. With its unique natural and cultural features, rural landscape can provide an environment of comfort, leisure and closeness to nature, and become an ideal place for people to get away from the hustle and bustle of the city and seek spiritual sustenance. Therefore, the study on the application of rural landscape in landscape architecture planning and design is of great significance to the sustainable development of rural areas and the improvement of people's quality of life. The purpose of this study is to explore the application mode, principle and effect of rural landscape in the planning and design of landscape architecture, in order to provide effective guidance and reference for the planning and design work in related fields.

Key words: rural landscape; Landscape architecture; Planning and design

1. Concept and characteristics of rural landscape

Rural landscape refers to a kind of visual characteristics and perceptions, formed by the natural and human environment of rural areas. It includes not only natural elements such as mountains, rivers, fields and lakes, but also rural natural landscape including human elements such as villages, farmlands and farmers' lives. Because of its unique style and cultural value, rural style has become an important research object in landscape architecture planning and design.

1. The definition of rural landscape

The definition of rural landscape is the overall grasp and description of the natural and human environment in rural areas. In the academic circles and planning practice, the definition of rural landscape has a certain diversity. One definition holds that rural landscape refers to the natural and cultural landscape in rural areas, including various natural elements such as farmland, villages, rivers, forests, mountains, as well as human elements such as paths, courtyards and temples scattered among them. Rural landscape, with its unique characteristics, attracts people's attention with its charming natural environment and simple and pleasant human scenes. The other definition regards rural landscape as a cultural landscape, emphasizing the cultural elements and historical evolution of rural areas.

2. Elements and characteristics of rural landscape

The elements of rural style are both natural and humanistic. The natural elements include landform, water system, vegetation and animals, while the humanistic elements include rural architecture, traditional culture and rural community. Rural landscape is characterized by the joint action of its natural scenery and human history, presenting unique and rich rural characteristics.

3. The comparison between rural landscape and urban landscape

Rural landscape is different from urban landscape, they are two different types of landscape forms. Rural landscape pays more attention to the protection of natural environment and cultural inheritance, emphasizes the integration with nature, and pays attention to the harmonious relationship between man and nature. Urban landscape pays more attention to modernization and the development of human activities, pursuing convenience and economic benefits.

Rural landscape is an important part of garden planning and design. Through reasonable planning and design, the unique charm of rural landscape can be protected and developed, and a place for recreation and cultural exchange can be provided for people. At the same time, by taking advantage of rural scenery, it can also promote rural tourism and make the local economy flourish. Therefore, the use of rural scenery is of great significance in garden planning and design.

2. The basic principles of landscape planning and design

1. The principle of sustainability

In contemporary garden planning and design, sustainability is one of the important principles. The utilization of rural landscape should follow the concept of sustainable development, take into account the rational utilization of natural resources, the protection of ecological system, the sustainable development of social economy and other aspects, and give overall consideration to the utilization of rural landscape and the construction of ecological system. For example, ecological agriculture technology can be adopted in the planning and design to reduce the use of chemical pesticides. To protect the health of soil and water resources. In addition, recycling can be promoted and renewable energy sources reduced, thus adversely affecting the natural environment.

2. Aesthetic principles

The aesthetic principles in landscape architecture planning and design involve the formation, layout and selection of landscape elements of rural landscape. When using the rural landscape, it is necessary to take into account the integration of the landscape with the

surrounding natural environment and human environment to create a rural landscape full of aesthetic feeling. Aesthetic principles also include considerations such as color matching, material selection and proportion to achieve a harmonious and unified landscape.

3. The principle of community participation

Community participation is an indispensable principle in garden planning and design. When using rural landscape, it is necessary to fully consider the needs and opinions of local residents, communicate and cooperate with them to ensure the feasibility and acceptability of planning and design. Residents can be organized to participate in residents' activities, solicit their opinions and suggestions, and incorporate them into the planning and design decision-making process. Through community participation, good interaction between rural landscape and community residents can be achieved, and residents' sense of identity and pride in the landscape can be increased.

To sum up, there are sustainable principles, aesthetic principles, and community participation principles, which are the basic principles in garden planning and design. In the use of rural landscape, we need to follow these principles, in order to achieve the sustainable development of rural landscape, beauty and community residents' participation and sharing.

3. The use of rural landscape in garden planning and design

1. The ecological function of rural landscape

As an important part of the natural environment and a meeting point between nature and human activities, rural landscape plays an important ecological function in landscape architecture planning and design. First of all, rural landscape can nurture and enrich biological diversity and provide ecosystem services, such as water resource protection, soil conservation and climate regulation. Secondly, rural landscapes can also provide habitats and food sources for wildlife and plants, maintaining biodiversity. In addition, rural landscape can also play a role in regulating climate, through the presence of natural elements such as trees and lakes, to achieve temperature regulation and air quality improvement. In addition, the rural landscape can reduce land degradation and water pollution, protect the sustainable use of natural resources, and the special terrain of the rural landscape such as farmland and wetlands can also play a role in hydrological regulation and flood control. To sum up, the ecological function of rural landscape plays an important role in the planning and design of landscape architecture.

2. The cultural value of rural landscape

As an important representative of traditional culture, rural landscape has become a way of cultural preservation and inheritance in garden planning and design, carrying rich historical culture and local characteristics, and has rich humanistic value. First of all, elements such as architecture, art and custom in rural landscape reflect the history and culture of a specific region. Rural landscape represents the tradition and history of a region and reflects the historical process of symbiotic development between human and nature. Through planning and design, these cultural elements can be integrated into the landscape to make rural landscape a cultural carrier and display platform. Secondly, rural landscape is still an important place of cultural traditions and customs, such as traditional festivals, farming culture and so on. In addition, rural landscape can also provide places and materials for literature, art and other creative inspiration. In addition, the traditional farming culture of rural landscapes can also be used to educate and cultivate people's respect for nature and the environment, and raise the public's environmental awareness. Therefore, fully excavating and protecting the cultural value of the rural landscape is very important in the planning and design of landscape architecture.

3. Leisure and entertainment functions of rural landscape

Rural landscape provides a rich variety of leisure and entertainment functions, which can meet people's needs for the natural environment and spiritual enjoyment. First of all, the natural landscape in the rural landscape, such as mountains, lakes, fields, etc. Through the reasonable planning and design of the trail system, sports facilities, amusement facilities, etc., the rural landscape can meet the needs and interests of different people, and provide people with a leisure place away from the noise and pressure of the city. Secondly, rural landscape can also provide new forms of entertainment such as leisure agriculture and sightseeing, which can promote the development of local economy and increase farmers' income. Agriculture and rural tourism resources in rural landscape can provide people with farming experience, food tasting and other activities, increasing the diversity of leisure and entertainment. In addition, rural landscape can also attract more tourists and residents to participate in it by holding traditional festival activities and agricultural products exhibition and sales. The leisure and entertainment functions of rural landscape play an important role in improving people's quality of life and promoting social harmony. Therefore, the leisure and entertainment function of rural landscape should be fully considered in garden planning and design to meet people's pursuit of a better life.

4. The protection and sustainable development of rural landscape

In today's society, people who have lived in cities for a long time are eager to return to nature and nature when protecting and developing rural landscapes, because with the acceleration of urbanization, the pace of life is fast and the work pressure is high. Rural landscape, as a kind of regional landscape with the interaction of nature and humanity, has unique natural ecological and cultural values, and is one of the important research objects in landscape architecture planning and design. In the aspect of rural landscape protection, we are faced with many challenges, and the most important challenge is how to balance the relationship between protection and development. The survey shows that in the past few decades, the development of many rural areas has been accompanied by deforestation, overutilization of land resources and environmental pollution, which has led to the destruction and loss of many natural ecosystems. These problems

should arouse our full attention. On the one hand, with the acceleration of urbanization and the development of modern agriculture, some rural landscapes are facing the threat of destruction and disappearance. Urban expansion, industrialization, and the renewal of agricultural technology have all brought challenges to the protection of rural landscapes. On the other hand, due to the needs of economic development, some rural areas need to develop tourism and other industries on a large scale, which also poses new problems for the protection and sustainable development of rural landscape.

To protect the rural landscape and promote sustainable development as its own responsibility, adopt a series of strategies and methods. First of all, in order to protect rural landscape, it is necessary to adopt sustainable development strategies and methods, establish a sound rural landscape protection system and mechanism, including formulating relevant policies and regulations, strengthening supervision, and encouraging social forces to participate in rural landscape protection work. Second, in order to improve the consciousness of the masses to protect traditional villages, strengthen publicity and education. The government and relevant departments actively carry out education and publicity on rural landscape protection to raise the public's awareness and protection awareness of rural landscape. We can actively carry out various afforestation and environmental protection projects to provide guarantee for the restoration of the ecological environment in rural areas. In addition, in accordance with the principle of sustainable development, quality and efficiency improvement, efforts should also be made to develop rural landscapes. For example, we can promote the development of local tourism, which will provide more job opportunities and economic income for local residents. At the same time, we can guide tourists to engage in low-carbon and environmentally friendly tourism and protect the ecological environment. This makes it all the more necessary to explore ecological protection and industrial development models that suit the characteristics of local villages. For example, the sustainable development of rural economy can be achieved through the development of rural tourism, breeding of high-quality livestock and poultry, and planting of special agricultural products. At the same time, we should promote the combination of rural tourism and ecological protection, improve the quality and experience of rural tourism, and give full play to the advantages of natural and cultural resources.

In a word, in the protection of rural landscape and sustainable development, we should not only fully understand the characteristics and problems of rural areas, but also actively adopt targeted strategies and methods. We should not only protect the natural and human values of rural landscape, but also protect the development of rural economy and social progress.

5. Conclusion

In the garden planning and design, the planning and design of rural landscape plays an important role. Rural landscape is an important embodiment of rural culture and an important resource for the development of rural tourism. This paper aims to explore the application of rural landscape in the planning and design of landscape architecture. The application of rural landscape in landscape architecture planning and design has extensive research significance and practical value. Through further in-depth research and exploration, it will help to promote the development of rural tourism better and promote the realization of the strategic goal of rural revitalization. In the future, the research direction of rural landscape in landscape architecture planning and design should focus on how to make better use of scientific and technological means to improve the presentation effect of rural view, and how to better capture the needs and preferences of tourists, innovate rural tourism products and promote their sustainable development.

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