Preliminary Study on Ecological Landscape Design in the Construction of Beautiful Countryside Based on Big Data

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Abstract: In recent years, the "Beautiful Countryside Construction Action" has received positive responses from all parts of the country. As the carrier of rural regional characteristics, rural road landscape is an important part of the construction of beautiful villages and has become the focus of attention. Originally through the analysis of big data, the development status of the beautiful rural construction in Fujian Province was explained, the problems existing in the beautiful rural construction in Fujian Province were discussed, the basic principles and construction goals of the beautiful rural landscape construction were analyzed, and the characteristics of the beautiful rural landscape construction project were combined. This article proposes several types of beautiful rural landscape construction, and discusses the ideas and countermeasures of the beautiful rural landscape construction in Fujian from the perspective of landscape construction, in order to provide a research foundation for the construction of beautiful rural landscapes in the future.

Key Words: Beautiful Countryside, Landscape, Construction, Big Data

1. Introduction

Since the reform and opening up, along with the acceleration of economic development, Fujian Province is stepping into the period of accelerating urbanization construction, and the social, economic, and cultural structures have undergone major changes during the transformation of urbanization development. It is precisely in the context of industrial development, urban expansion and agricultural intensive management that the traditional village landscape featuring ecological nature is fragmented, and the local culture, habitat, and plant diversity of traditional villages are seriously damaged[1-2]. Driven by economic interests, it is really shocking to reclaim the land, build the land, fill the lake, pollute the river, destroy the forest, destroy the grass, and destroy the cultural relics. The countryside is the cradle of human civilization and the home of the souls of our ancestors. Since the harmony between heaven and man affects people's natural view, the Han nationality always adopts an affinity attitude towards nature and landscape, and tries to explore the embodiment of life philosophy from the law of natural landscape scenery. The tranquil and long-distance rural scenery without the impact of modern urban culture has been recognized and promoted by more people of insight. Since the 18th National Congress of the Communist Party of China, the implementation of the 2013 Central Document No. 1 of the Commission on the promotion of rural ecological civilization and the
construction of beautiful villages, Fujian Province has also increased the intensity of the construction of beautiful countryside, the introduction of Fujian Province The Implementation Plan for the Creation of Beautiful Villages aims to guide the landscape planning and construction of beautiful villages in the province, provide policy guidance and technical guidance for the construction of beautiful rural green landscapes in the province, and improve the level of beautiful rural construction. However, there are still many shortcomings in this process. For example, the lack of correct concept guidance for rural landscape and ecological environment protection, the design pattern is the same, resulting in the demise of local culture, can not reflect the natural and cultural characteristics of the countryside. During the construction process, it was not based on the characteristics of the country to adapt to local conditions, embodying the ecological priority concept, resulting in the separation of farmers from the land, residence and production, ecology and construction.

1.1. The status quo of beautiful rural landscape construction in Fujian

With the development of economy and the change of lifestyle, rural residents have the psychology of seeking new changes in their living environment, but they often lack the correct concept guidance of rural landscape and ecological environment protection, and are subject to current urban living standards, values and modernity. Most of the developing villages are in line with the city, and regard urbanization as a symbol of modern civilization, showing an obvious trend of rural urbanization. As everyone knows, rural residents, while envious of urban civilization, have neglected their own values and caused the demise of traditional local culture.

Due to the unclear nature of the rural collective land property rights, the lack of scientific planning control and guidance or planning for village and town construction has not been effectively implemented, the following situations have occurred: 1 housing construction is relatively backward and the layout is unreasonable, mainly in the following: farmers are mostly built on both sides of the road. Housing business, the village extends along the road, occupying the roadside good land; the village center is ruined, the village is surrounded by new houses; the residential houses are mostly closed, single-family homes, sporadic scattered infrastructure facilities are extremely poor.

2. The goal of beautiful rural landscape construction

Landscape construction in beautiful countryside is a systematic project. We should strengthen planning and construction, environmental sanitation, ecological construction, industrial optimization, infrastructure and social management to achieve the following objectives:

2.1. Good planning and design

In accordance with the requirements of "unified planning, step-by-step implementation, adapting measures to local conditions and highlighting characteristics", village planning should be carefully formulated to meet the requirements of the times and embody local characteristics. The villages are coordinated with the natural environment. Farmers follow the planning and build houses in an orderly manner to form a better overall architectural style. Attention should be paid to the protection of historical buildings, ancient and famous trees and scenic forests (geomantic forests), maximizing the inheritance of regional traditional culture through garden decoration, extracting local architectural elements and symbols from local materials, fully respecting the cultural context of the ecological space of villages, and extracting ancient trees, famous trees, rocks, streams and residential buildings on each plot. And other rural elements make full use of the unique natural space of mountains, waters and villages; consciously create the interactive landscape artistic conception of mountains, waters and villages, which fully reflects the different characteristics of forest homes, pastoral scenery, and water village charm.

2.2. Improving infrastructure

The village's water, electricity, roads, communications and other public infrastructure is perfect, rational layout, functional support, good management and maintenance, and the village's main roads
and public places are hardened in an all-round way. Adhering to the "three synchronizations" between greening and infrastructure construction, and rationally supporting greening facilities such as rural park green space, primary and secondary school garden green space, villagers’ sports fitness green space and rural road green space; adhering to people-oriented, park green space should be appropriately equipped with some garden lights, tables and chairs, garden sketches, children's activities and fitness facilities to meet the basic public needs of villagers. Common service needs. Using multiple design elements to highlight local culture and local customs is followed by fully tapping local culture and folk customs. Each village has its own historical accumulation and its own stories. In the process of landscape construction, we should use the former residences of celebrities, ancestral temples, ancient kiln sites, corridors and bridges in the village to show historical features and buildings. Make it a unique landscape.

2.3. Strengthening environmental governance
Rural environment is clean and orderly. Rural garbage and sewage are effectively treated. Poultry and livestock are kept in captivity. Farmers’ courtyards are tidy. The environment before and after houses is clean. The disorderly piles are thoroughly cleaned up. The rivers, ditches and ponds in villages are effectively renovated. All kinds of green space have no garbage, no dirt, no water, no dead plants in the green belt, no lack of broken plants, basically make the Loess disappear from the sky. Timely pruning of trees, flowers and plants, plants grow vigorously, tree shape neat and beautiful.

2.4. Paying attention to natural ecology
Rural natural resources have been reasonably protected and intensively utilized. Rural greening is coordinated with local landforms, rivers and lakes, natural wetlands and human landscapes. It has a natural landscape of blue sky, green land and clean water. We will actively carry out greening and beautification of "four sides and four areas" and have a high coverage rate of greening in rural areas, basically realizing "all seasons are green, all seasons have flowers, all seasons change". The River ponds and ditches are dredged in time, and the revetments are situated on the slope, so as to prevent excessive hardening. The forest vegetation around the countryside is intact, and there are basically no phenomena such as random quarrying of stones, random soil extraction, random grave construction, soil erosion and bare mountain.

2.5. Promoting industrial development
Vigorously develop the undergrowth economy and green industry, each village has one or two leading industries, forming a "one village, one product" with its own characteristics. Focus on creating "one village, one scene" and "one village, one rhyme" scenic rural tourism landscape, and integrate with farmers’ production and life to form unique rural tourism brands such as farming experience, farming culture, leisure farms, forest homes, farmhouse music, fishermen's music, folk customs, ecological vacation, and so on, effectively improve.

3. Conclusion
Looking at the beautiful rural landscape construction in Fujian Province, it is still in its infancy. Avoid large-scale demolition and large-scale construction that are not in line with the actual development of rural areas, and avoid low-level repeated construction of thousands of villages with no characteristics. Combining with the actual situation of each village, adhere to the construction ideas of adapting measures to local conditions, highlighting key points, economically reasonable, beautiful and practical. The construction of beautiful rural landscape is a comprehensive and systematic work involving multiple disciplines and the cooperation of multiple departments. With the support of computer information, through the virtual landscape construction process, we can fully realize the long-term, low-consumption, humanized and comprehensive utilization of rural natural resources, create a good living environment and landscape, and realize the rural society, rural economy and ecological environment.
References

[1] Zhou Weiquan. Third Edition of Chinese Classical Garden History [M]. Tsinghua University Press, 2008 (11): 770-771.

[2] Liu Sufang, Ren Hai. Models and practices of beautiful rural construction in the development of new countryside --- Take Henan Province as an example [J]. Agricultural economy, 2016, 01:63-65.