

# Practical Application of Aesthetic Characteristics in Landscape Design of Mountainous Residential District

Yi Li<sup>1\*</sup>, Duwen Shen<sup>1</sup> and Ran Zhang<sup>1</sup>

<sup>1</sup> Architectural and Urban Planning Department, Chongqing College of Architecture and Technology, 401331, China

**Abstract.** In the process of landscape planning and design of a mountainous residential area, planners make full use of a variety of aesthetic features, create their own characteristics, create community landscape leading the needs of modern urban life, and provide reference for improving the quality of mountain residential area.

## 1 Background

China's mountainous areas account for about 2 / 3 of the country's land area, and at least 50% of the country's urban terrain is mountainous [1]. According to the code for vertical planning of urban and rural construction land [2], in the selection and layout of urban and rural construction land, the natural slope and planning slope of

residential land should be less than 25%. The fluctuating terrain of Mountainous Residential Area Planning increases the difficulty of building layout and road organization, but it also provides conditions for building skyline with unique style and artistry and providing original and unique three-dimensional activity space. At the same time, combined with the actual situation, it can also create a land-saving and affordable public service facilities supporting [3].



Figure 1. The general layout of the project

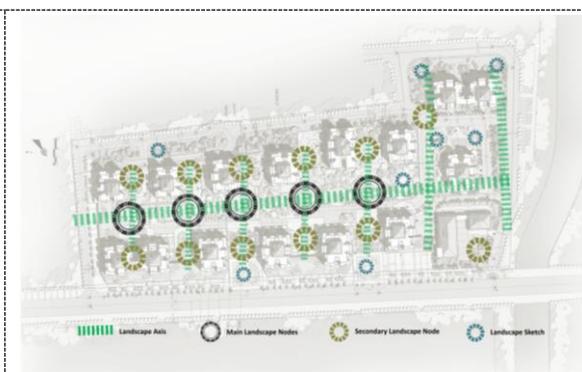


Figure 2. The landscape node diagram.

In the process of landscape planning of a typical mountainous residential area in Chongqing, planners make full use of the aesthetic features of landscape, combine with the requirements of low impact development, respect the mountainous terrain and landforms, make rational use of the terrain and geological conditions, and develop a characteristic and practical residential landscape space in Mountainous Areas, comprehensively improve the living quality, create interactive communities, and increase private communication space.

## 2 Aesthetic Characteristics and Construction of Slope Landscape

### 2.1. Unity and diversity

In the process of slope landscape planning, various forms of elements should be organically combined and integrated to achieve coordination and unity, so as to form a colorful and ever-changing harmonious beauty and realize unity and diversity [4].

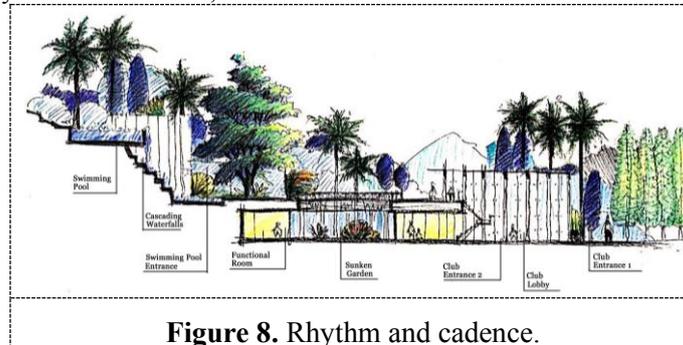
\* Corresponding author's e-mail: [cqfdc2008@163.com](mailto:cqfdc2008@163.com)



### 2.3. Rhythm and cadence

In the slope landscape planning, we should follow the aesthetic feeling rules of rhythm and cadence, and make

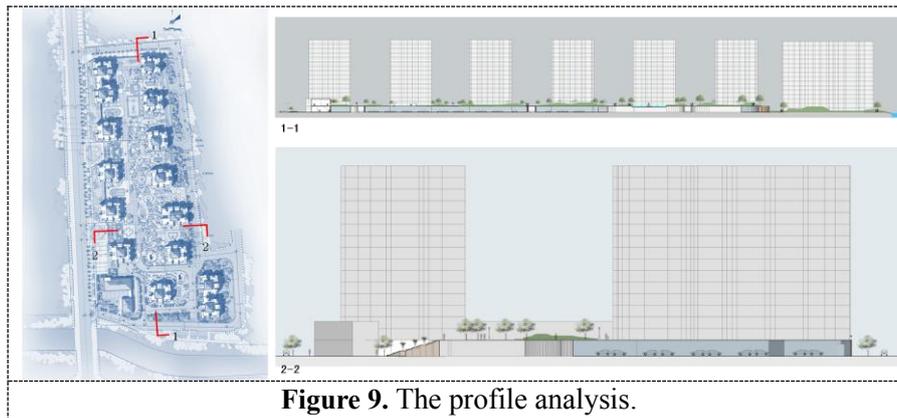
full use of the elements of spatial form, color, material, terrain and topography [4], and grasp the cadence in combination with the actual environment, so as to give people a sense of visual comfort.



**Figure 8.** Rhythm and cadence.

In the residential area planning, in order to improve the visual space and quality of life, realize the landscape uniqueness and living comfort, we use rhythm and rhythm to create a landscape belt and create an

interactive landscape effect. It enriches the landscape pattern and provides residents with a unique landscape perspective.



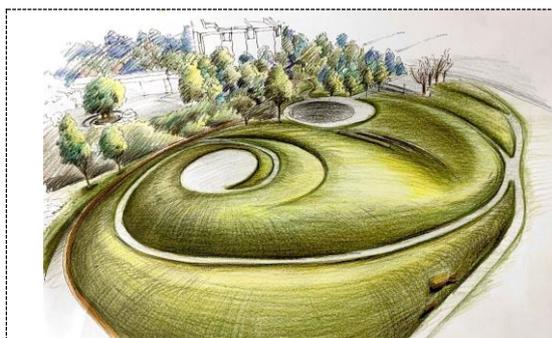
**Figure 9.** The profile analysis.

### 2.4. Texture and proportion

The proportion and texture can improve the vitality of the landscape and endow the slope landscape with more vitality. Through the same material texture beauty and concave convex feeling, the contrast expression of different materials and the fusion of similar materials. Then, the coordination between the whole and the part, between the parts or the whole is fully combined to

achieve the aesthetic effect.

The planner of this project adopts the simple, lively, modern and generous European style in the facade of residential buildings, and uses glass, real stone paint, stone and other materials, vertical and horizontal changes in details and full of modern vertical lines to integrate the building into the landscape. Green space and hardbound place, public space and private space are fully combined, interpenetrated and integrated.



**Figure 10.** Proportion and texture.



**Figure 11.** The waterfront landscape rendering.

### 3 Conclusion

In the process of landscape planning and design of a hillside residential area in Chongqing, planners make full use of the aesthetic characteristics of rhythm, symmetry, texture ratio, diversity and unity to create their own characteristics and create a safe, comfortable, unique and livable modern community landscape, which provides theoretical and practical basis for landscape planning and design of Mountainous Residential Areas in the future, and how to improve the living quality of mountainous areas Reference is provided.

### References

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