Landscape Design on Urban Rail Transit Station’s Public Space

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ABSTRACT: Our urban rail transit is being constructed like a raging fire under the era background of innovation and development. The station’s public space is an important part and its landscape design requirements are also increasing, not only to meet the needs of people’s convenient travel, but also to meet natural beauty’s shaping of the ecological environment. This paper will study the development status and problems of landscape design on urban rail transit station’s public space, and discuss how to construct urban rail transit station’s public space from the landscape level, so as to be more suitable for the demand of modernization.

KEYWORDS: Urban Rail Transit; Station’s Public Space; Landscape Design.

With the improvement of China’s comprehensive national strength and the acceleration of the pace of urban modernization, the construction of domestic urban rail transit is also booming, and the landscape design of station’s public space is increasingly becoming the focus of the construction. Under the premise of meeting the traffic function of station, how to show the station’s urbanization characteristics, cultural characteristics and humanistic style, and how to improve city’s competitiveness, have become the questions of urgent need to pay close attention to.

1. DEFINITION ON PUBLIC SPACE OF URBAN RAIL TRANSIT STATION

From the perspective of urban design, urban rail transit is an important node of urban construction, and the station’s public space property is also subject to urban public space. Urban rail transit is the backbone of urban public traffic and includes urban and suburban railway, subway, airport contact railway, light rail transit, single rail transit, urban tram, maglev train and new traffic system, it has the characteristics such as: large transport capacity, large passenger flow rate, all-weather, less pollution and high security, etc, it is green environmental protection new traffic and meets the values of scientific development, it meets the development requirements of large and medium cities on traffic development. Urban rail transit station is an important part of traffic network, as distributed transfer station of urban passenger flow, it has the characteristics of more complex traffic and larger passenger flow rate, when travelling, no matter choose public transport, bicycle or walk, finally, you need to walk to arrive at urban rail transit station to transfer.

From a narrow perspective, public space mainly refers to indoor and outdoor space publically used by citizens in daily life and social life; from a broad perspective, it includes the geographical space, the people in the space and various exchanges and interaction developed by people. Urban rail transit station’s public space begins to focus on the social property of public space, the open object is urban residents, and closely related to the life of them, it provides convenience for their travel and takes in account the culture, aesthetic and environmental protection, etc, various functions of meeting the concept of sustainable development. Public space scope mainly includes internal and external space of urban rail transit station building, and exit and entrance space of station building.

2. DEVELOPMENT STATUS AND PROBLEMS OF LANDSCAPE DESIGN OF STATION’S PUBLIC SPACE

At present, the development status and problems of landscape design of our urban rail transit station’s public space are mainly embodied in the several aspects: first, the level of landscape design is low and the planning is not perfect. The landscape design of urban rail transit station’s public space started late and development is slow, compared with the developed countries at the same time, the following are relatively weak: breadth and depth of landscape
3. DEVELOPMENT TREND OF LANDSCAPE DESIGN OF URBAN RAIL TRANSIT STATION’S PUBLIC SPACE

The development of landscape design of urban rail transit station’s public space is mainly embodied in professional diversity, human nature, intelligence and art. First, development focuses on specialization and diversification. The landscape design of station’s public space has turned to multi-varieties and professional direction from single product demand, and the people with different class, different age and under different situation will have the different demand to landscape design of station’s public space. At the same time, the development of science and technology also provides various production conditions for the possibility of landscape design of station’s public space turning to multi-varieties from single demand. In addition, the promotion of ‘Internet+’ further brings endless possibility for the profession and diversification of landscape design of station’s public space, through the reference and learning, the professional and diversified landscape design of station’s public space has a new direction of development. Second, development focuses on the needs of human nature. The landscape design of station’s public space mainly starts from the perspective of users, and needs to consider the demand of people, should provide effective services for people and provide a good station public space landscape for people’s travel. Landscape design not only meets the use needs of people, but also is convenient, in addition, meets ecological environment protection and sustainable development. The landscape design of station’s public space should consider the local climate and environment, customs and habits as well as people’s life style, etc, in addition, should consider people’s privacy and air circulation, etc, to reduce people’s oppressive feeling in station’s public space, practically achieves people-oriented purpose of landscape design of station’s public space. Third, development focuses on intelligence. The landscape design of station’s public space is developed with the progress of technology, and every scientific and technological progress will bring a huge impact. Landscape design should also be promoted toward the intelligence, make full use of scientific technology productivity to change itself, and make landscape design of station’s public space become a major force to promote social development. The rising of computer network technology has brought the development of automation system, and the landscape design of station’s public space can also use the automation system to further achieve intelligence, to better meet the travel demand of people.
The main research objects of landscape design of urban rail transit station’s public space are station’s main buildings, distribution square, plant, fountain and other landscape resources and surrounding service facilities. The main buildings include entrance, exit and wind pavilion of pedestrian channel, the design should be unique and can be identified, not only to meet people’s aesthetic needs, but also to facilitate people’s rapid search and quick capturing. The distribution square is mainly used to attract and evacuate the people, and the landscape design should consider combine with other traffic mode for convenient transfer. For the plant, fountain and other landscape, the design should reflect the concept of green civilization city, which is convenient for people to do dynamic viewing in the trip. The surrounding service facilities should also be considered by landscape design, the convenient, beautiful and practical various service facilities can reflect the humane care in the social life, and the unique design can also become a bright spot in the public space of the station.

The landscape design of urban rail transit station’s public space should reflect the characteristics of the city, and the design should consider the following principles: integrity, comfort, applicability, space sense and visualization. Landscape design should focus on the integrity to keep overall concise and lively, in addition, should take into account local different style, and pursue change under the premise of overall style is consistent; Landscape design should focus on comfort, adhere to people-oriented, by people’s demand as the design orientation, overall less with the color of the jump and the details should consider the rich and suitable landscape level, use diversified materials and forms, the design concept pursues modernization; Landscape design should focus on the applicability, combined with surrounding buildings to design a suitable living environment, can comprehensively use shopping malls’ entrance and square, etc, for convenient travel and living; Landscape design should focus on the sense of space, start from the objective reality and according to the current form, by graphic design to cooperate with vertical hierarchical landscape factors, such as: sculpture, fountain and street lamps, etc, to shape landscape’s multi-level spatial sense in station’s public space; Landscape design should focus on visualization, should fully consider to use various factors while carrying out landscape design, cooperate with landscape design’s drawing, material, plant shape and color, etc, to strengthen the visual enjoyment reflected by landscape design of station’s public space.

The landscape design of urban rail transit station’s public space should adopt modern design method and use geometric linearity’s fluency feature to strengthen the depth and development to strip space, to enhance the sense of expansion of station’s public space; At the same time, should consider the environmental protection and ecological performance of landscape design, the layout of landscape design of station’s public space should appropriately increase traffic artery’s green area and green coverage.

5. CONCLUSION

Urban rail transit station is not only the core element of urban traffic system, but also is the space factor and landscape focus of urban development, it is an important reflection to standardize and show the urban culture and humanity atmosphere, has become an important part of modern urban construction. For the promotion of the city’s characteristics and culture, it has an important significance on how to better achieve the landscape function of urban rail transit station’s public space on the basis of meeting station’s traffic function. With the acceleration of the process of modernization, people’s requirements to public space of urban rail transit station are not limited to simple and quick travel, nor limited to the transit node of transfer, the purpose of landscape design of station’s public space is to create an urban public space with complex function and practicability, itself is also given more social nature, to meet physiological, psychological and spiritual balance of people when travelling. This paper implements preliminary study to landscape design of urban rail transit station’s public space, and hopes to promote a better, faster and more harmonious development on the public space of urban rail transit station.

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REFERENCES