Research on the Design of Public Facilities in Urban Environmental Art Design

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ABSTRACT

City is one of the main carrier of human life, with the advancement of urbanization, the urbanization process in China, environmental art design of the city more and more gets people's attention, and public facilities is a city urban comprehensive charm show platform. Excellent public facilities can create a new life form and environment experience for the whole city, which brings a richer experience and feel to people's life. In this paper, the design of public facilities in urban environmental art design is analyzed and discussed. In view of the problems of urban environmental art design, the application of public service facilities in urban environmental art design is studied. It also provides a set of feasible research ideas and methods through the study of environment and human experience.

PUBLIC FACILITIES IN URBEN

Since ancient times, human beings have been constantly transforming the urban environment, and the design of public facilities has been formed with the development of the city. Public facilities as an organic part of a city, on the one hand, can reflect the city's overall development, highlight the city's unique culture and is also a public bond between the experience and the urban environment, in the whole city occupies very important position in the environment and social structure.

Urban public facilities design, it is to point to meet the demand of the public, with art and culture of city public environment planning and design, and set up in the urban environment and public space has a certain culture, regional, artistic devices. The public facilities in the modern urban environment, on the basis of realizing their basic functions, will reflect the spirit and cultural connotation of the city together with the surrounding environment. Urban public facilities can not only show the economic strength of the city, but also convey the city's cultural and artistic information and embody the quality of life of urban citizens. With the development of China's large-scale urbanization, public facilities will play an important role in the city.

URBAN PUBLIC FACILITIES DESIGN

Classification of urban public facilities design

The design of public facilities in urban environmental art design mainly includes nine categories according to its emphasis on function and research emphasis.
Public information facilities

Public information facilities are public facilities that provide people with information when they are active in the city's public environment. They are usually in the form of text and icons to guide the public to know their urban environment. The designer should give full consideration to the arrangement of related design factors such as location, dimension size, convenient to better people to use. Public information facilities include signposts, signs, bus stop and other facilities.

Public transport facilities

Public transportation is the whole environment of the city planning, the improvement of the street layout has certain effect. It mainly includes traffic signs, waiting kiosks, hurdles, overpasses, non-motor vehicles and other facilities.

Public health facilities

Public health facilities is essential facilities in urban public space, can not only satisfy the activities in the urban environment on the function of the public demand for related health conditions, and can be used as the city environment space art design ornament. It mainly includes the dustbin, water fountain, public toilet, waste transfer station and other facilities.

Public recreation facilities

Public rest facilities improve the quality of people's life in the city, reflect the city's care for the public, and also promote people's exchanges and feelings. Mainly include public seat, sitting booth, and porch and so on.

Public lighting facilities

The main purpose of public lighting is to ensure the safety of people's activities in the urban environment at night and to beautify the urban night scene to some extent. Public lighting facilities need to be able to render environmental atmosphere and other requirements in addition to the requirements of illumination. Mainly include street lamp, landscape lamp, ground lamp, neon lamp act.

Public service facilities

Public service facilities are important facilities for people to provide convenience in the urban environment, mainly including public amusement facilities, public fitness facilities, convenience service facilities, etc. Convenience service facilities mainly include kiosks, newsstands, security kiosks, fast-food spots, ATM machines, etc. Public service facilities fully reflect the urban environment's concern for the public in life.
Public safety facilities

Public safety facilities include air defense system, warning signs, emergency evacuation marks of concrete danger zone, the electronic monitoring of roads, the lifesaving assistance facilities, management of fire control facilities management, etc.

Public art facilities

The public art facilities have an important role to decorate and foil the environment, to add cultural atmosphere and time style to the urban environment. It also beautifies people's urban environment and gives the public the enjoyment of various aspects, reflecting the urban spirit and regional cultural characteristics.

Unobstructions public facilities

The unobstructed public facilities are eliminating the barriers to the activities of these groups in the urban environment, and all members of society have the right to participate equally in social life and share the fruits of social development. It mainly includes sidewalks (blind road), public toilets, drinking water and parking Spaces.

Status of urban public facilities design

Urban public facilities and its city image is closely related to the overall environment, it can directly reflect the spiritual connotation of a city, a city reflects the characteristics of material and spiritual culture.

In recent years, with the concept of sustainable development and humanized livable cities, the design and construction of public facilities has received a lot of attention. But compared with western developed countries, our country started relatively late in this area, although also aware of the importance of public facilities, but insufficient net inflow, seriously insufficient, defect of management problems, led to the development of China's existing urban environment public facilities lag. At the same time, due to the huge economic differences in different regions of China, the design and development of public facilities are unbalanced. There are several main problems.

The functional facilities are not perfect

The public facilities in many urban environments in China lack the overall planning and design. In some areas, the function of public facilities cannot keep up with the needs of the public, and some of the design itself has not met the development of The Times. Both quantity and quality are not realistic, and some damaged public facilities cannot be repaired in time.

Lack of human design

Now, a lot of public facilities in the urban environment are the lack of humanization design, did not reflect the concerns for people, and even more not consider people's needs and experience, all aspects of the design are considered comprehensive enough.
Overall aesthetic feeling is insufficient

Public facilities of modelling, color, texture, structure, or materials are no aesthetic feeling, cannot be combined with the urban environment, difficult to rise to decorate the effect of beautification environment, can't satisfy the public's aesthetic needs and spiritual needs.

Design too single

In the modern urban environment, the public facilities are too stylized, one-dimensional and standardized, so that the design of public facilities in urban environments has almost no features, resulting in the effect of a thousand cities. Each city should have its own city features, modelling conforms to the city features.

Lack of urban cultural connotation

Every city has its own culture and history, urban public facilities in the design of environmental art design should also keep the culture of the city have historical and cultural characteristics, but some cities at the same time of rapid development, blindly copying the introduction, the facilities in the environment is very abrupt, gave up the development of city culture connotation and inheritance, this approach is to design a serious impediment to the development of public facilities.

Limited management ability

We still lack normative management. Once placed there, many facilities are no longer managed, some are badly damaged, and the later maintenance cannot be kept up, and cannot be repaired in time.

DESIGN PRINCIPLES OF URBAN PUBLIC FACILITIES

Reasonable layout principle

The public facilities in the urban environment are in an open and close urban environment, so it first has the character of the public to have a friendly and active dialogue with the public. It is for the publicity of public facilities have determines the content and the form of public facilities is to provide services to the public, and people's life is closely related to the relationship, and have a certain relationship. Whether in the design style, or the product selection, should satisfy the reasonable purchase principle and the layout principle.

Functional principle of function

In general, a utility and well-functioning public facility should at least have functions that are easy to identify, easy to operate, and easy to clean. The function of public facilities is based on the various demands of public activities in public places. So the designers should attach great importance to durable materials, easy to update structures, easy maintenance and management.
Humanization design principles

Public facilities design of urban environment should be people-oriented basic starting point. So as to realize the value and significance of people exist, improve the overall quality of life. In addition, the designer should not only consider the needs of the normal people, but also take into account the special requirements of the disabled, the elderly, children and pregnant women.

Artistic principles

The design of public facilities in urban environmental art design, the shape, color, texture and proportion of product shape need to satisfy the artistic principle. Concrete content is embodied in the related design elements of contrast and unity, symmetry and balance, rhythm and rhyme in the need to embody the aesthetic feeling, the spirit and concept of metaphor era, convey city of unique historical culture and folk customs, accurately reflect its unique style and color, temperament and style of the city, at the same time, embody the spirit of urban cultural literacy.

The principle of integrity

Urban public facilities in urban art design and its city and the surrounding consistent overall environment atmosphere, public facilities are not just an isolated individual, each of the public facilities are part of the city public space environment.

Cultural principles

Each city has in every city of local culture. Different region with different culture, our country has a long history, ancient civilization, designers at design time, should speak urban history, culture, characteristic into public facilities such as concept, showing a personalized and nationalization of the city.

Sustainability principles

The design of urban public facilities should meet the principle of sustainability. It is the principle of green design. To apply the principles of ecological sustainability, urban public facilities, humanized design should consider choosing small impact on the environment of raw materials, reduce the use of raw materials, optimization of processing and manufacturing technology, reduce the environmental impact using phase, optimizing the service life of the product and the product of the scrap system.

CONCLUSION

With the continuous development of the society, the public facilities in the urban environment bring convenience to people and beautify the city. Urban environment elegant, functional perfect public facilities can not only make public life more convenient, also raised the quality of life of the public, more can reflect the spirit and the cultural charm of a city.

Face a is still in high-speed development and change of Chinese social background, urban public facilities in the design of environmental art design has been
is a complex and diverse professional system, we can't from the perspective of a separation and single interpretation and its specialty and complexity of the design are summarized, need we to the perspective of comprehensive balance. In combination with the main factors influencing the urban public facilities design, summarizes the urban environment, public facilities and some of the problems at present and analyzes and summarizes the relevant theories of public facilities design in the urban environment, and put forward the people-oriented and under the premise of optimization arrangement easy to identify, easy to operate, easy to clean and so on practical principle, and according to the urban features of each city, blend in concept such as history, culture, characteristics of public facilities and further in the use of new materials and new technology, optimization of urban public facilities in the design of environmental art design.

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REFERENCES

1. Xiaoyan Zhang. 2009. “Research on humanization design in modern urban public facilities,” Qilu University of Technology