

Urban design for Music valley area in HongKou district, Shanghai

— Based on the conservation and the regeneration of historical district

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I . General situation

Presently, Shanghai has entered a new era of urban renewal. Based on the innovative developing background, including the control of incremental, revitalizing the stock and enhancing the city quality, there comes the new chances for historical neighborhood's protection and revival. Shanghai Municipal Government has approved 119 preserved neighborhood and added 23 preserved road in 2016, including 7 preserved neighborhood in our site of Hongkou Music valley.

As an area of the theme of music, Shanghai Music Valley has been basically formed related industry chain, which is the focus of Shanghai cultural and creative industries gathering area. With Yujing Pu, Hongkou harbor and Shajing harbor intersecting around the site and its rich heritage, the site is a very representative landmark both in geography and culture in Shanghai.

With the core area of the old venue 1933, the urban design scope of Hongkou Music Valley area is about 33.4 hectares. The site is west to Siping-Wusong Road, south to Wujin-Zhoujiazui Road, east to Xinjian Road and North to Hailun Road. The urban design research area: with the intersection of Hongkou Shajing Harbor and Hongkou Harbor in the core and its surroundings, covering about 1.1 square kilometers.

The north side of the site is close to Hailun Road station of metro line 10 and the west side can be connected with North Sichuan Road Station of metro line 10 through Hongkou SOHO. The North Cross-Channel in the south side of the site, as is the key construction project of 13th Five-Year, is a main artery of traffic and there's Xinjian Road and Xinjian Road Tunnel exports in the north side of the site, which is an important channel for connecting the Hailun Road Area to Pudong. There are also several urban complex projects under construction or have already been built around the site, including Hongkou SOHO and Financial City and so on.

II . Research Subject and Basic Requirements

The research subject is to revitalize the historical neighborhood and to construct the dynamic creative park with the background of the new round of urban renewal in the North Bund, which includes: the overall function designing, the traffic organization, the protection of historical neighborhood, the construction of characteristic place and so on. Please think about how to improve the overall environment quality of the area and create a theme-style neighborhood that will extend the area's historical and cultural identity.

Through the on-the-spot investigation, each group finds the value of the old buildings, the character of historical sites and the existing problems, and working on the urban renewal design to enhance the vitality and quality of the neighborhood while also paying attention to the extension of the diversity and complexity of the historical area. According to the concerned old buildings (groups) to select a specific designing site and renew the way to achieve the goal of the integration of the historical buildings (group) and the new buildings, community improvement and the creation of waterfront character.

Basic requirement:

This urban design focuses on the integration of space elements like site and waterfront region, new buildings and historical areas, public and private space, pedestrian and automobile traffic, etc.

Except for the conserved architecture, it is required to add new buildings to the blocks, in order to raise the overall net floor area ratio by 0.1~0.2. Building coverage within the road red lines should be no more than 80%. Green coverage should be 10% or more. Building height limitation is 100m.

Requirements of conserved and new-built architecture of the site:

1、Conserved historical architecture: Function replacement and protective reuse can be done after value assessment.

2、Other conserved architecture: Including high-rise public buildings, multistory and high-rise residential buildings. It is required to retain their functions and reform them partly to harmonize with the environment.

3、New buildings: Their functions are at each group's own decision according to the result of investigation research, but should take supporting district vitality into consideration. New buildings must be within the lines of construction scope. River boundaries can be adjusted according to the design.

III. Teaching objectives

1、Learn the basic skills and methods of urban design's site investigation, space analysis and integrated assessment.

2、Understand the coupling relationship between new and old urban elements. Seek for ways of architecture formation with the core of shaping public space.

3、Develop abilities for group cooperation and interpersonal communication. Improve integrated professional skills at design analysis and result expression.

IV. Design steps

Step1: Site investigation and design objective

(making out assignment books in the region of urban design research)

Span: 1.5 weeks Results: PPT presentation

Each group make analysis on site investigation and case study according to following five research topics. Work out their own assignment book of urban design objective and vision by investigation and analysis on problems, needs and resources of the area. Results include:

A. **Site analysis:** Diagrams, notes, photographs and research conclusions related to history, background, street networks, function usage and orientation, current situation of architecture, traffic flow, culture, etc.

B. **Case study:** Each group study national and foreign cases based on 'conservation and regeneration of historical districts'. (Each student analyzes a case individually.)

C. **Working model of the site,** with the scale of 1:1000. (A whole group)

Five research topics (for both site analysis and the case study):

1.History and environment resources: historical context, resources and problems, features and values of outer space, forms and values of historical buildings

2.Function usage and orientation: function orientation, commercial activities and space arrangement

3.Space patterns and activities: constitution and layer structures of public space, their current situation; land division and property right, street section, arrangement of building volumes, forms of the edge

4.Traffic systems and stream lines: accessibility and order of traffic (pedestrian, bicycle, metro, bus and car), as well as parking organization

5.Conservation and regeneration of historical districts: protective reuse of historical districts and old buildings, continuation and recombination of functions, co-existence of new and old buildings, formation of special space

Step2: Site analysis and design concept (region of urban design)

Span: 1 week Results: PPT presentation

Each group raise urban design objective and strategies based on problems, needs and resources of the site, and submit concept design papers and models. It is required to emphasize the relationship and logicity between site analysis and design objective.

Step3: Urban design concept deepening and system design

Span: 4 weeks Results: model/cad/ppt/sketch(unlimited)(3rd presentation)

According to the urban design objectives and basic strategies to complete the systematic design of the Music Valley area,which includes:system of space use,system of historical preservation,system of public space,system of traffic space,system of walking space,system of landscape space and so on.The overall drawing includes site plan,ground floor plan,and several elevations and sections.

Step4: Interim Report

Span:1 week Results:Model/Diagrams The 4th report.

Each group need to improve the overall concept of urban design and to form a systematic design for the urban design.

Step5: Design of Neighborhood and Characteristic Place

Span:6 weeks Results:Model/Diagrams/Plans/Elevations/Sections The 5th report.

Step6: Urban Design Control

Span:2 weeks Results: Urban Design Plans The 6th report.

According to the urban design,select the typical plots to develop urban design control plans.

Step7: Integration and Improvement of Design **Span: 2 weeks**

Step8: Assessment and Reply **Span: 1 week** **Visit to France**

V. Achievements

The course will begin with group work.Students are required to attend every discussion which includes site survey,specific visit and draw sketches and notes of the visit.At the same time,students are also required to read the relevant cases and books during the course to prepare the work better.

Final Results:

1、 Urban Analysis (project analysis,preliminary research,conclusion of urban analysis)

2、 Design Objective (goals and tasks,urban design strategies)

3、 System Design (space use,traffic space,public space,underground space,landscape space)

——General Concept: site plan,ground floor plan,second floor plan,sections,axonometric drawing

4、 Neighborhood Design

——Plans (2nd basement plan,1st basement plan,ground floor plan,second floor plan,roof plan)

——Elevations,Sections ——axonometric drawing and renderings

5、 Urban Design Plan (Area Plan)

Joint Design final result requirements(per person):

— Not less than 6 A1 urban design drawings and not less than 12 pages A3 urban design text

— Final electronic file CD for work

VI. Reference Cases

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|----------------------------------|-------------------|
| 1. Shanghai Xintiandi | 5. Harbor Oslo |
| 2. Shanghai Old Pier | 6. Clarke Quay |
| 3. Shanghai No.8 Bridge | 7. Pier 39 |
| 4. Shangduli in Qingpu, Shanghai | 8. Hackesche Höfe |

VII. Bibliography

- 1 Donald Watson, Time-Saver Standards for Urban Design
- 2 Jan Gehl, Public Spaces, Public Life
- 3 Steve Tiesdell, Revitalizing Historic Urban Quarters
- 4 Matthew Carmona, The Dimensions of Urban Design
- 5 Gary Hack, Urban Design in the Global Perspective
- 6 Lu Jiwei, Urban Design Creation: Research and Practice
- 7 Zhang Fan, Measures of Historical and Cultural Protection in Urban Development
- 8 Yang Zhunxia, Urban Design for Cross-River
- 9 Wang Yi, Introduction to Urban Design

| Week | Date | Tuesday | Week | Date | Friday |
|---|------|--|------|------|---|
| | | 5 - 8 | | | 5 - 8 |
| Part1 Joint Design: Week 0~2 | | | | | |
| 0 | | | 0 | 24/2 | 1、Assign and explain tasks C508 2、Divide groups, investigate site |
| 1 | 28/2 | Workshop C508 Rough draft of site investigation (ppt presentation) ○ site analysis ○ topic research ○ resources and problems | 1 | 03/3 | Workshop C508 Site investigation and design objective (ppt presentation) ○ site analysis ○ case study ○ resources and problems ○ urban design objective and assignment books |
| 2 | 07/3 | Workshop C508 Urban design objective and rough draft of concept (ppt presentation) | 2 | 10/3 | Workshop C508 Urban design concept and strategies (Handicraft model + ppt presentation) |
| Part2 Urban Design Deepening: Week 3~16 | | | | | |
| Week | Date | Tuesday 5 - 8 | Week | Date | Tuesday 5 - 8 |
| 3 | 14/3 | ○ Urban design concept deepening | 4 | 21/3 | ○ Urban design system |
| 5 | 28/3 | ○ System design | 6 | 04/4 | ○ System design |
| 7 | 11/4 | Interim results (PPT presentation) ○ Urban design scheme ○ System design | 8 | 18/4 | ○ Block design |
| 9 | 25/4 | ○ Block design | 10 | 02/5 | ○ Block design |
| 11 | 09/5 | ○ Block design deepening Place formation | 12 | 16/5 | ○ Block design deepening Place formation |
| 13 | 23/5 | Block design results (PPT presentation) | 14 | 30/5 | ○ Urban design control Plan research |
| 15 | 06/6 | ○ Urban design control Plan research | 16 | 13/6 | ○ Design result expression |
| Part3 Urban design result expression & communication and presentation Week 17~18 | | | | | |
| 17 | 20/6 | ○ Design result expression | 18 | 27/6 | Communication and presentation in Paris |