

CS STUDIO ARCHITECTS

LOCUS PRACTICE PROJECT IN CHINA 2010 ZHOU SHAN HARBOUR DEVELOPMENT - LUJIAZHI CULTURAL CREATIVITY GARDEN

CLIENT: BUREAU OF CULTURE, PUTUO DISTRICT ZHOUSHAN

BACKGROUND

The local government of Zhou Shan (near Hangzhou and Ningbo – an archipelago of islands) wanted to transform and rehabilitate the harbour and industrial area of the island into a tourist and cultural centre. The development formed part of the Universal Exhibition of Shanghai which ended in October 2010. The purpose was to present a multinational project of innovative contemporary architecture on this site. The project was led by Amateur Architecture Studio (Wang Shu and Lu Wenyu), was organized by the Observatory of China of Ifa, CAPA Cité de l'Architecture Paris (Françoise Ged) and the Ifa direction (Marie-Hélène Contal).

Wang Shu from Amateur Architectural Studio, an architectural practice in Hangzhou, and wife Lu Wenyu were the main co-ordinating design architects for the project. They approached his 14 laureate architect colleagues of the Global Award for Sustainable Architecture from 2007 to 2009 to become involved in the design process. He also asked his colleague and Global Award founder Jana Revedin to create a first LOCUS practice project.

The LOCUS practice project is designed to focus on both contemporary sustainable architecture as well as on the urban and landscape planning of the territory - where local cultural and landscape heritage is harmoniously fused with contemporary architectural design.

The brief required that the Harbour area be renewed and rehabilitated. The local government department described the project as a 'cultural creativity garden.' They wanted the maritime harbour to remain as a working harbour where possible, while the existing buildings and open spaces had to be developed into an economically viable tourism attraction. Quays had to be preserved to form part of the memory of the industrial past of the bay while maritime activities also had to be kept. Diverse new projects had to be developed around these harbour activities that could stimulate the tourist and cultural activities.

10 of the Global Award-winning architects were each given the opportunity to draw two projects out of a hat. The projects that were allocated to CS Studio Architects were p6a–p6b and p13. (refer to site map) P6a would be upgraded to become a traditional ship museum while p6b which was poorly constructed would be demolished partially and replaced with studios and office space. P13 was an existing ice making factory and it was motivated to the client to retain it and instead to build the new building on top of the existing.

The other architectural teams involved in the project were Fabrizio Carola, Rintala Eggertsson, Phillip Samyn, Jaurda Perrin, Herman Kaufman, Jana Revedin, Francis Kere and Whang Shu. It was an exciting project which had the architects produce design drawings up to the end of work-stage 3. The international architects were then to collaborate with local Chinese architects on work-stage 4. Construction was scheduled to commence in 2013.

DESIGN

The overall design for our buildings related to creative activities as Chinese contemporary art is increasingly making a mark on the international art stage. The 'creativity garden' would thus create a vibrant artistic and maritime atmosphere.

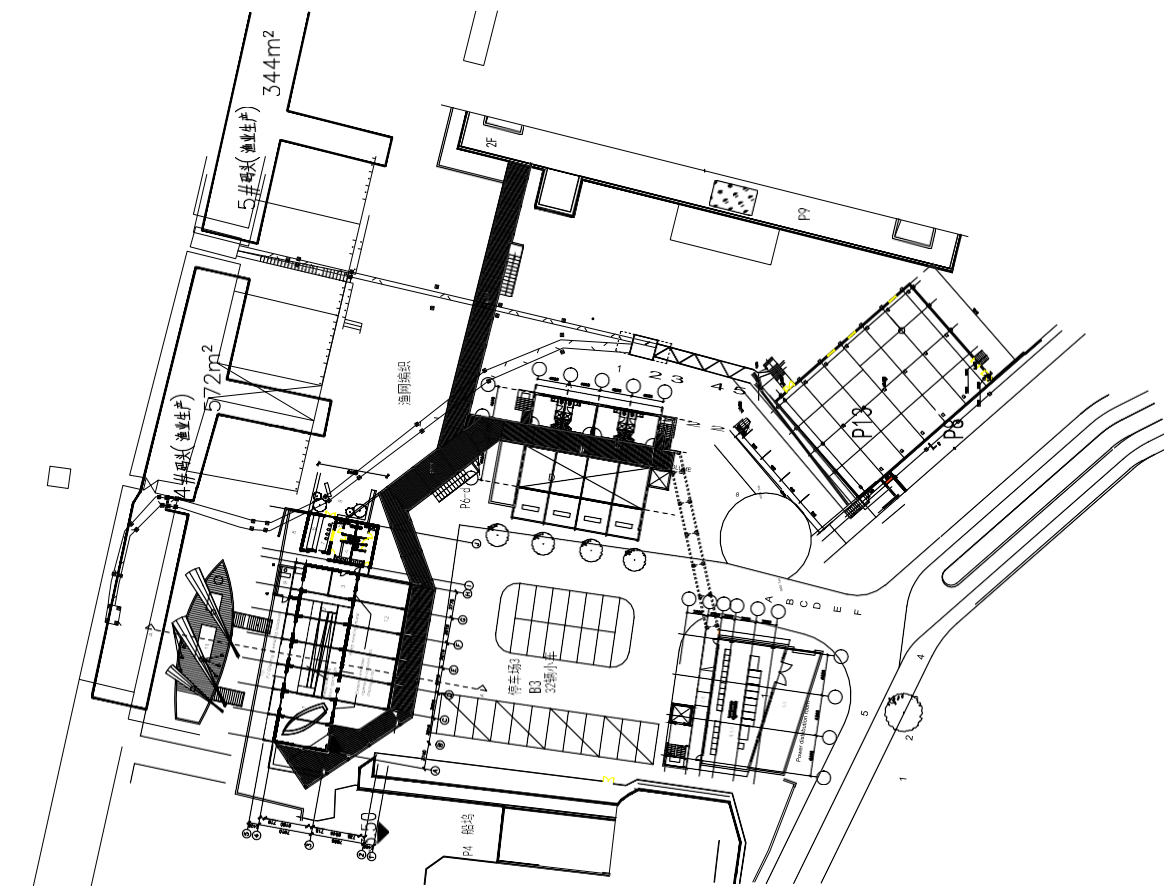
The design attempted to be site responsive. Inspiration was taken from the immediate industrial environment at the existing harbour while the buildings made reference to traditional Chinese maritime activities which inform the architectural language.

The design consists of the four separate buildings that were linked together with a central ramp/circulation element. The spaces were designed in a multi-functional manner in order for artists to maximize the use of it.

CS STUDIO ARCHITECTS

The boat museum and the artist workshop were inspired by traditional Chinese boat construction techniques and styles, while the main gallery and studio space were inspired by the ice factory and ice conveyer belts that were currently operational in the harbour. We also proposed that an existing traditional boat be sourced to become part of the overall exhibition at the boat museum. The boat could be anchored in the existing doc in front of the boat museum. The artist resident building was an existing building that was renovated and gave architectural expression in harmony with the existing and traditional surrounding buildings in the area.

The connecting ramp element was intended to give visitors an experience of the harbour with elevated views of the newly created waterfront towards the ocean as well as views towards the mountain side. Various seating areas on the ramp also created opportunities where other harbour activities could be observed. Artist and crafts people can trade from this elevated link that simulates the traditional narrow streets found in the surrounding areas. In addition, the link created entrances to the ship museum as well as to the gallery space while a mural and performance space was created on the ground floor adjacent to the ship museum.



LEGEND

- 1 Traditional Ship Museum
- 2 Artist offices
- 3 Residential Studios
- 4 Cancelled
- 5 Link Element
- 6 Parking
- 7 Fishing Net maintenance area
- 8 Escape Stair

CONSTRUCTION NOTES

Walkway element of wood construction with painted bamboo hand railing and bamboo flooring planks
 Roof structure timber structure with shutterboard and waterproofing with slate tiles.
 Benches timber
 Lighting should be lights of different colours to light - up at night. (LED)
 Compact fluorescents can be used to light the inside of the walkway

Urban low wall and seat elements to be off shutter concrete
 Paving to be brick and stone mixture
 Pathways in stone and parking in brick
 Net preparation and repair areas leave existing surfaces and restore where necessary

Planting to be local indigenous water wise plants.

Stair and lift core element off shutter concrete frame with red brick in fill for the lift and stair element to be concrete off shutter.

Note:
 P6 is an existing building that will be modified. Our No. 3 is an existing building that will be modified
 No 2 and 4 are new constructions



OPTION A

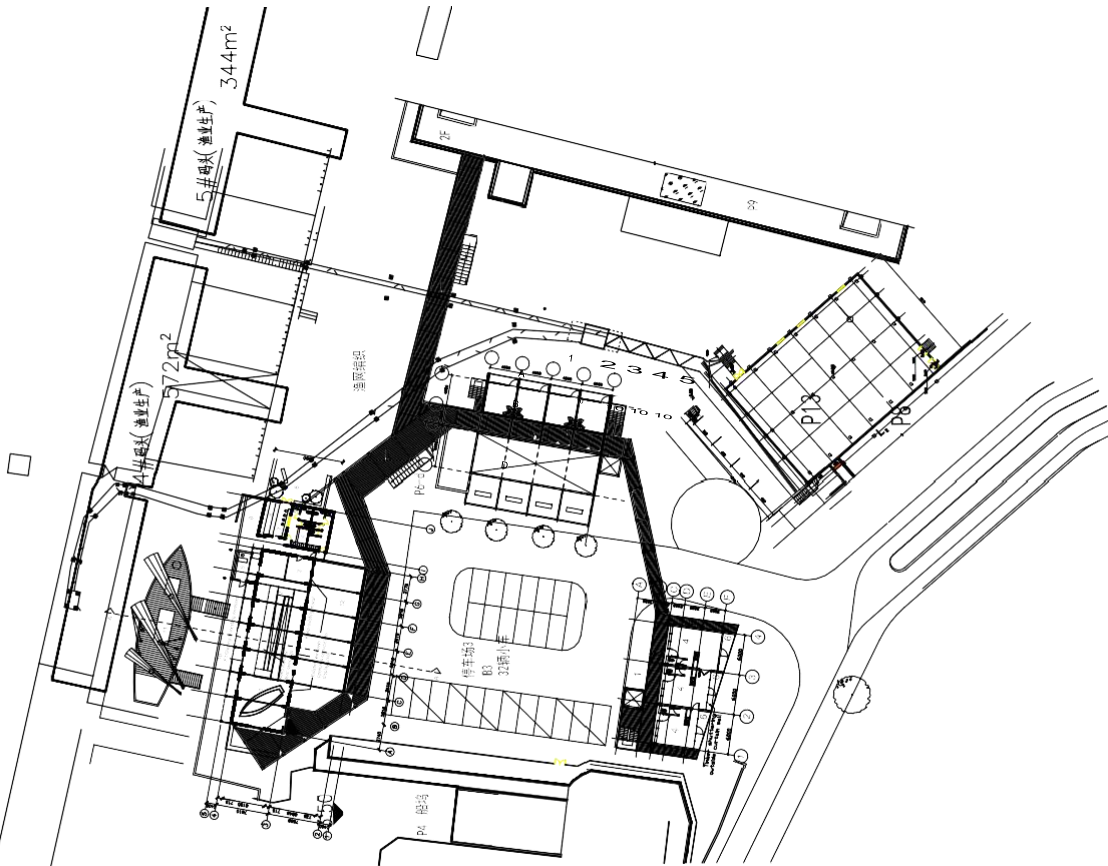
SITE PLAN
 FIRST FLOOR LEVEL 1:500

CS STUDIO ARCHITECTS ZHOUSHAN HARBOUR DEVELOPMENT - LUJIAZHI CULTURAL CREATIVITY GARDEN- DESIGN PROPOSALS OF P6 AND P13

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CS STUDIO ARCHITECTS



LEGEND

- 1 Traditional Ship Museum
- 2 Artist offices
- 3 Residential Studios
- 4 Cancelled
- 5 Link Element
- 6 Parking
- 7 Fishing Net maintenance area
- 8 Escape Stair

CONSTRUCTION NOTES

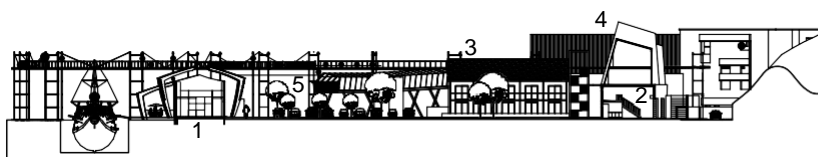
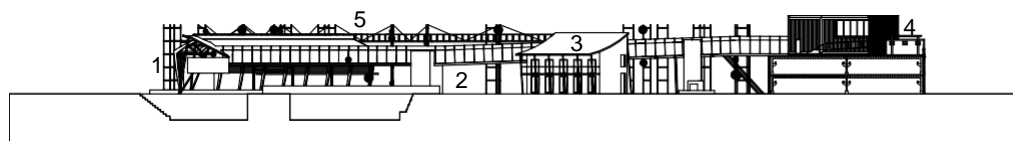
Walkway element of wood construction with plated bamboo hand railing and bamboo flooring planks
 Roof structure timber structure with shutterboard and waterproofing with slate tiles.
 Benches timber
 Lighting should be lights of different colours to light - up at night. (LED)
 Compact fluorescents can be used to light the inside of the walkway
 Urban low wall and seat elements to be off shutter concrete
 Paving to be brick and stone mixture
 Pathways in stone and parking in brick
 Net preparation and repair area leave existing surfaces and restore where necessary
 Planting to be local indigenous water wise plants.
 Stair and lift core element off shutter concrete frame with red brick in fill for the lift and stair element to be concrete off shutter.
 Note:
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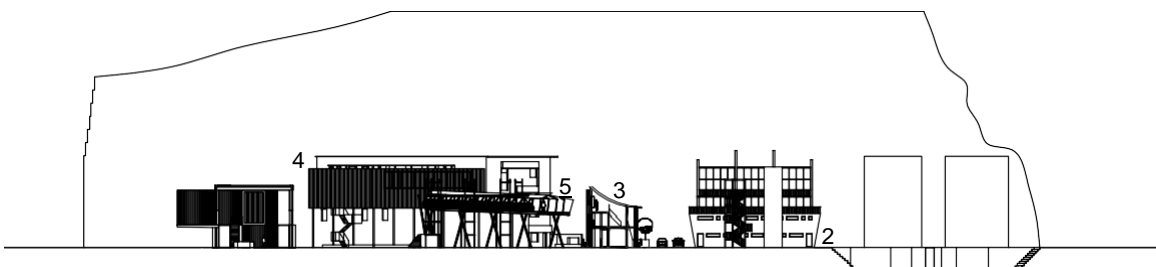
SITE PLAN
 SECOND FLOOR LEVEL 1:500

CS STUDIO ARCHITECTS ZHOUSAN HARBOUR DEVELOPMENT - LUJIAZHI CULTURAL CREATIVITY GARDEN- DESIGN PROPOSALS OF P6 AND P13
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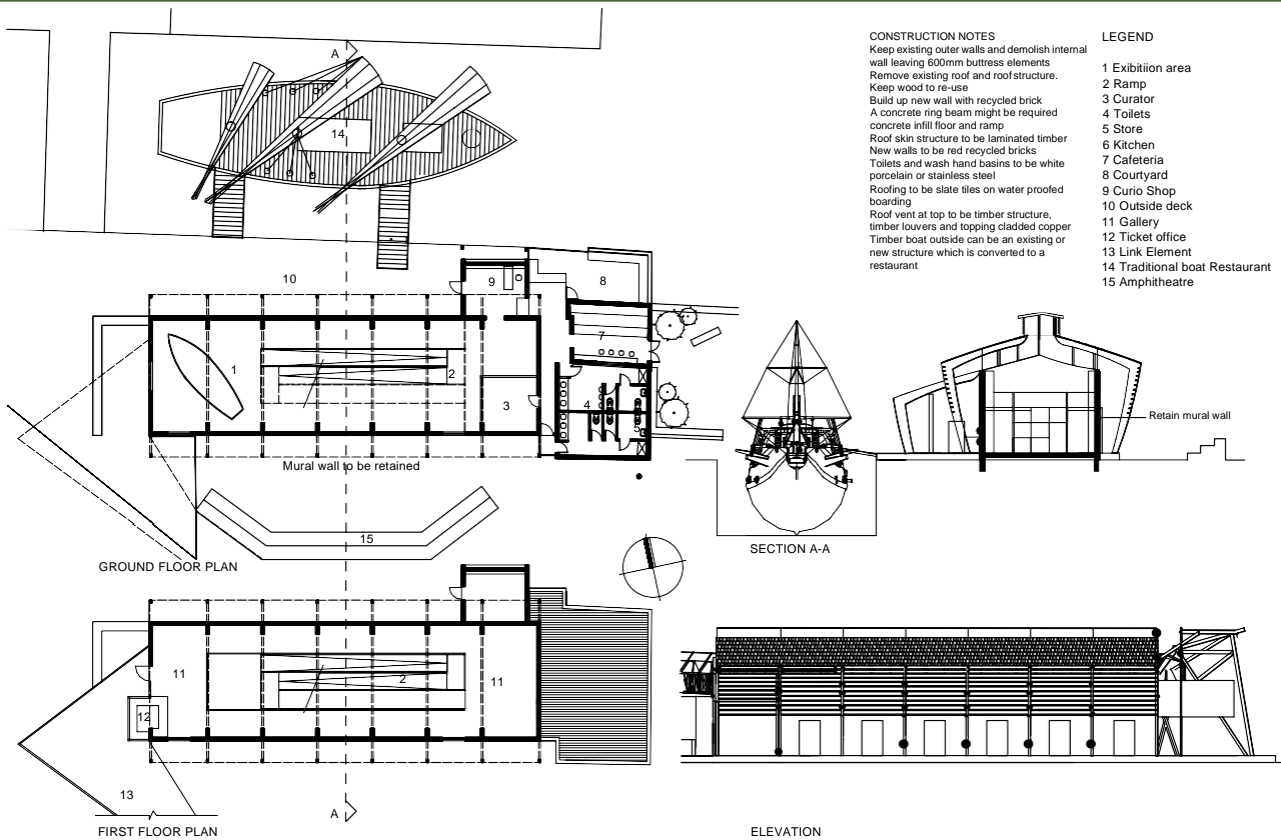


LEGEND

- 1 Traditional Ship Museum
- 2 Artist offices
- 3 Residential Studios
- 4 Ice Studios
- 5 Link Element



CS STUDIO ARCHITECTS



CONSTRUCTION NOTES
 Keep existing outer walls and demolish internal wall leaving 600mm buttress elements
 Remove existing roof and roof structure.
 Keep wood to re-use
 Build up new wall with recycled brick
 A concrete ring beam might be required
 concrete infill floor and ramp
 Roof skin structure to be laminated timber
 New walls to be red recycled bricks
 Toilets and wash hand basins to be white porcelain or stainless steel
 Roofing to be slate tiles on water proofed boarding
 Roof vent at top to be timber structure, timber louvers and topping clad copper
 Timber boat outside can be an existing or new structure which is converted to a restaurant

LEGEND

- 1 Exhibition area
- 2 Ramp
- 3 Curator
- 4 Toilets
- 5 Store
- 6 Kitchen
- 7 Cafeteria
- 8 Courtyard
- 9 Curio Shop
- 10 Outside deck
- 11 Gallery
- 12 Ticket office
- 13 Link Element
- 14 Traditional boat Restaurant
- 15 Amphitheatre

CS STUDIO ARCHITECTS

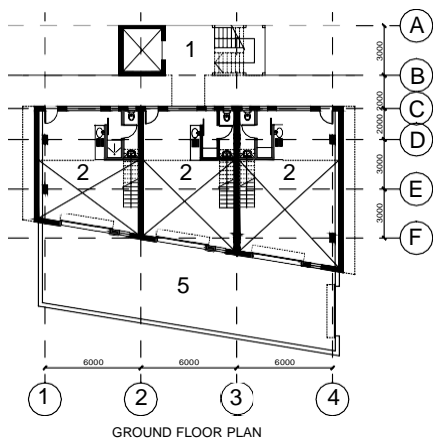
ZHOUSHAN HARBOUR DEVELOPMENT - LUJIAZHI CULTURAL CREATIVITY GARDEN - DESIGN PROPOSALS OF P6 AND P13

P6-a TRADITIONAL SHIP MUSEUM 1:200

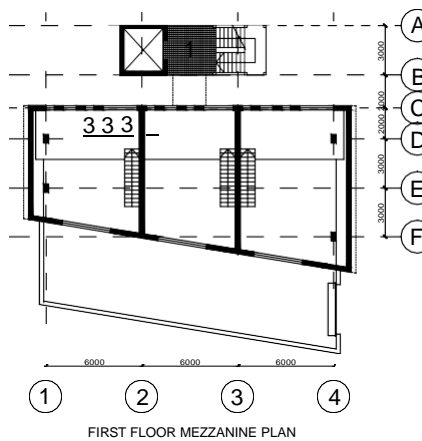
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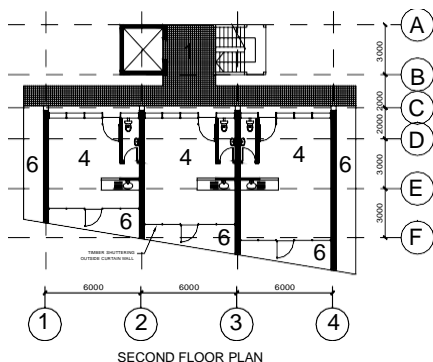
300 SQUARE METERS



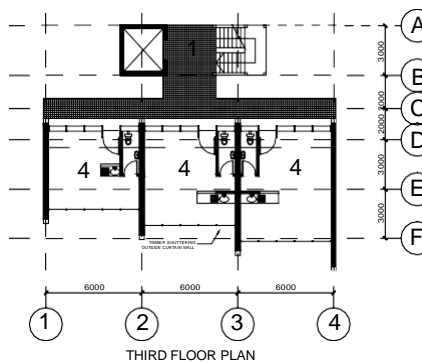
GROUND FLOOR PLAN



FIRST FLOOR MEZZANINE PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN

LEGEND

- 1 Lift and stair
- 2 Studios
- 3 Mezzanine level
- 4 Office
- 5 Yard
- 6 Balcony

CONSTRUCTION NOTES

Construction concrete with recycled brick cladding
 Lift core concrete off shutter
 Steel Stair
 Concrete fin wall to form sail spine
 Light weight elements to be timber and glass
 Roof structure timber with slate on water proofed boarding

CS STUDIO ARCHITECTS

ZHOUSHAN HARBOUR DEVELOPMENT - LUJIAZHI CULTURAL CREATIVITY GARDEN - DESIGN PROPOSALS OF P6 AND P13

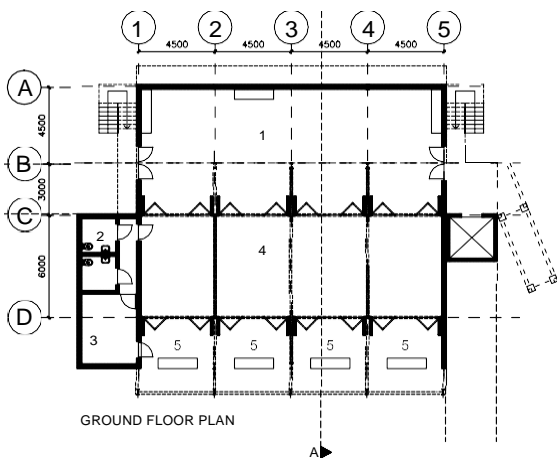
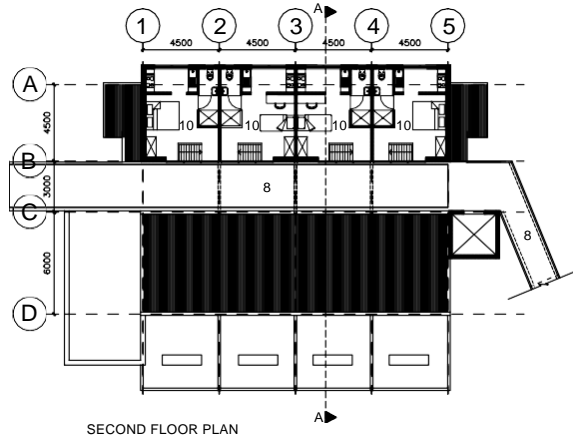
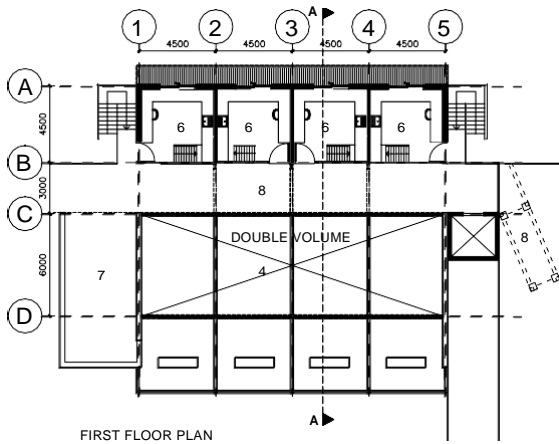
P6-b ARTIST OFFICES AND PARKING 1:200

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1200 SQUARE METERS

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OPTION 3

LEGEND

- 1 Gallery/exhibition space
- 2 Ablution
- 3 Store
- 4 Multi_Purpose Exhibition
- 5 Meditation courtyard
- 6 Artist studio
- 7 Balcony
- 8 Walkway
- 9 Link Element
- 10 Living area

CONSTRUCTION NOTES

- New steel portal frame building
- Perimeter wall on ground level to be brickwork and plastered.
- Concrete floor on ground level
- Timber floor on first floor and second floor
- Folding sliding aluminum doors
- Timber shutters
- Corrugated wall cladding to studio areas



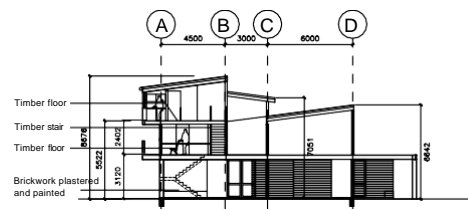
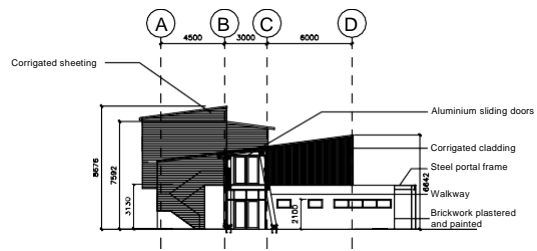
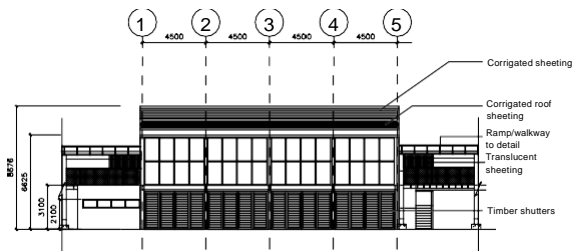
NORTH

CS STUDIO ARCHITECTS ZHOUSHAN HARBOUR DEVELOPMENT - LUJIAZHI CULTURAL CREATIVITY GARDEN - DESIGN PROPOSALS OF P6 AND P13

1F RESIDENTIAL STUDIOS 1:200
200 SQUARE METERS

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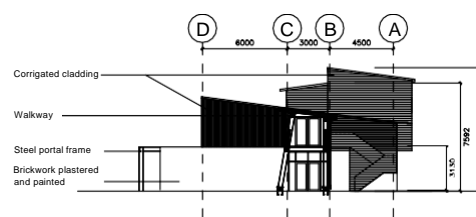
OPTION 3

LEGEND

- 1 Fore Court with Water Feature
- 2 Workshop/studio
- 3 Store
- 4 Multi_Purpose Exhibition
- 6 Artist Living
- 7 Balcony
- 8 Walkway
- 9 Link Element
- 10 Sleeping Deck

CONSTRUCTION NOTES

- New steel portal frame building
- Perimeter wall on ground level to be brickwork and plastered.
- Concrete floor on ground level
- Timber floor on first floor and second floor
- Folding sliding aluminum doors
- Timber shutters
- Corrugated wall cladding to studio areas



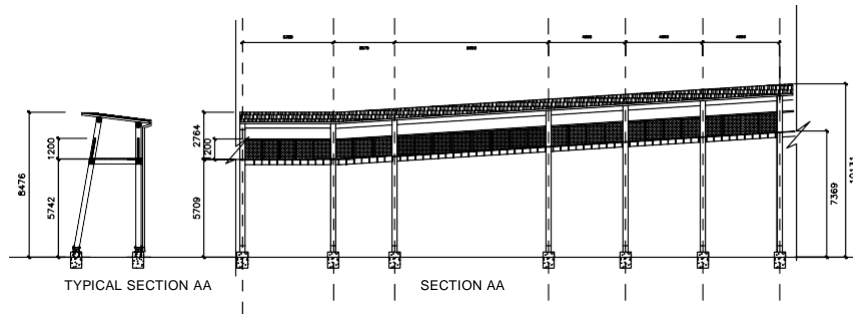
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1F RESIDENTIAL STUDIOS 1:200
200 SQUARE METERS

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CS STUDIO ARCHITECTS



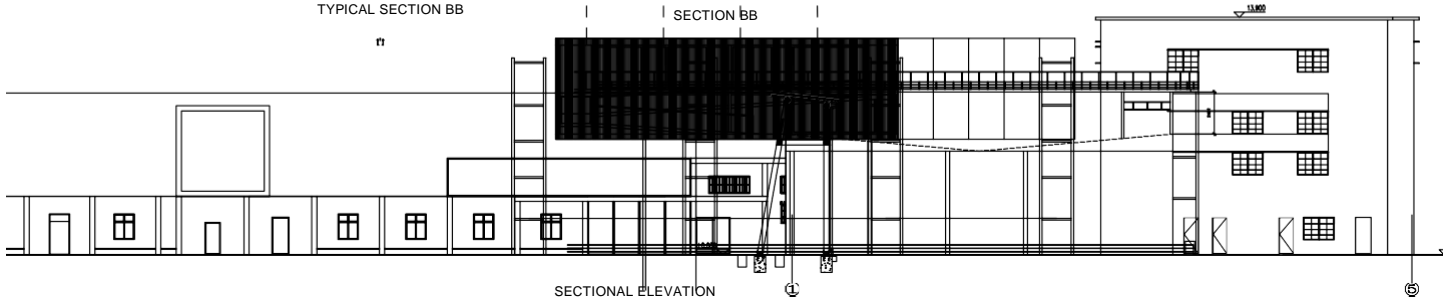
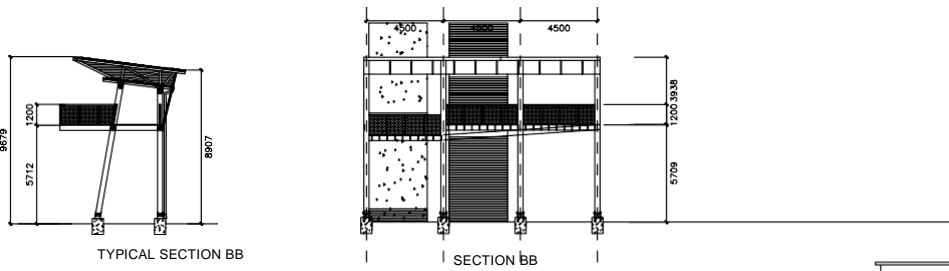
CONSTRUCTION NOTES

This element is constructed from timber poles and timber cross members and joists at the floor level. The floor finish can be either timber or bamboo planks. The roof is also a wooden structure with boarding and waterproofing to take slate.

The handrails are timber with plated bamboo infill.

The benches in the resting areas are timber.

In areas where the walkway is more than 4500 metres off the ground the handrails should be 1200mm tall with gaps to view out for children. This is the portion up to the ice studios.



CS STUDIO ARCHITECTS ZHOUSAN HARBOUR DEVELOPMENT - LUJIAZHI CULTURAL CREATIVITY GARDEN - DESIGN PROPOSALS OF P6 AND P13

LINK ELEMENT 1:200

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