

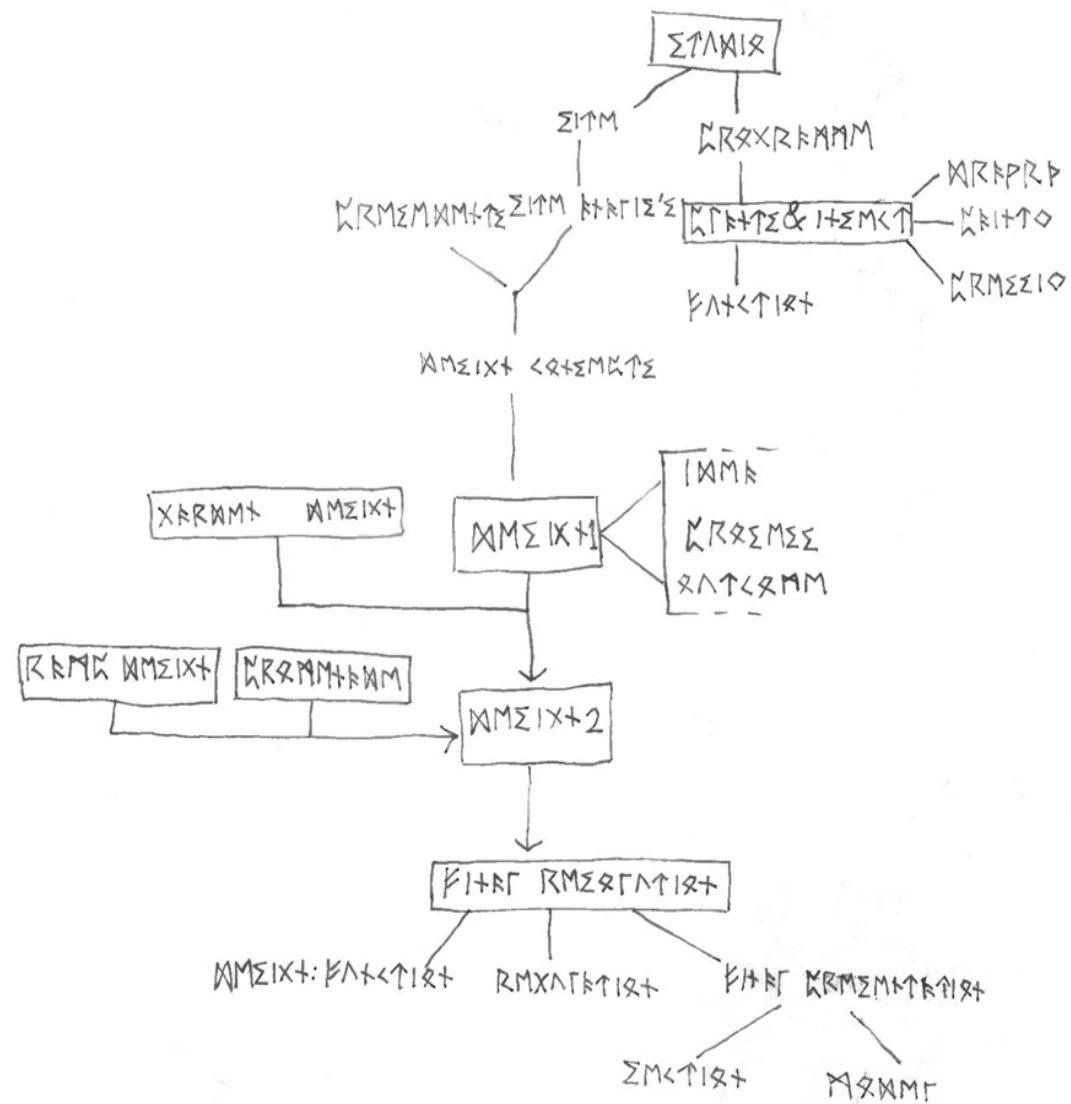
CROSS THE GOYT

Studio 2.2_Da Lan

OBJECTIVES



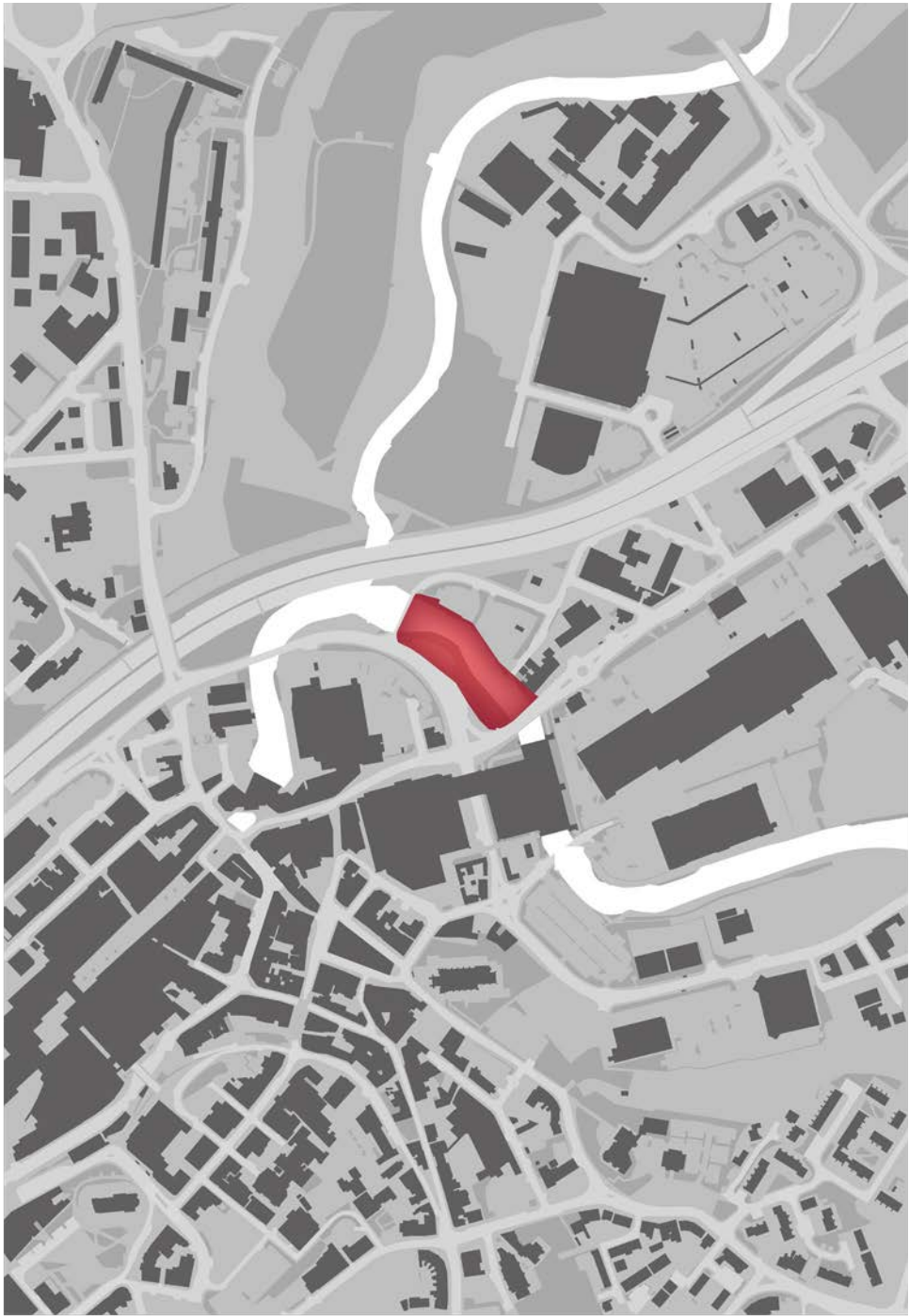
Main objective: Produce an architectural design in stockport which allows a small team of scientist to carry out environmental works, and promote the importance of environmental awareness to the public.



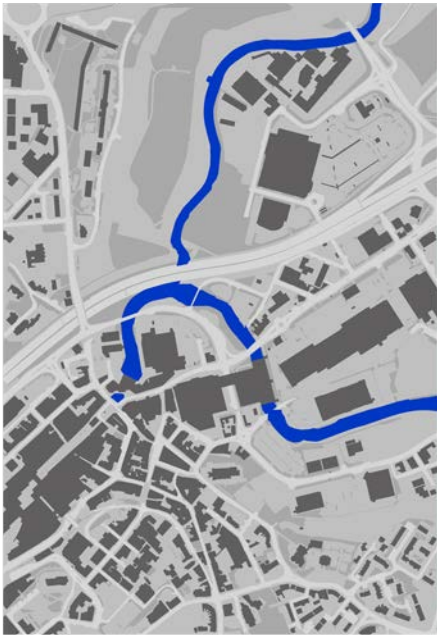
Mind map re-written in auld nordic rune *Younger Futhark* alphabet.

**SITE
PROGRAMME
ITERATION 1
ITERATION 2
RESOLUTION**

SITE



The site locates at Stockport Borough in Greater Manchester, near the confluence of Goyt and Tame river, forging Mersey River at the end.



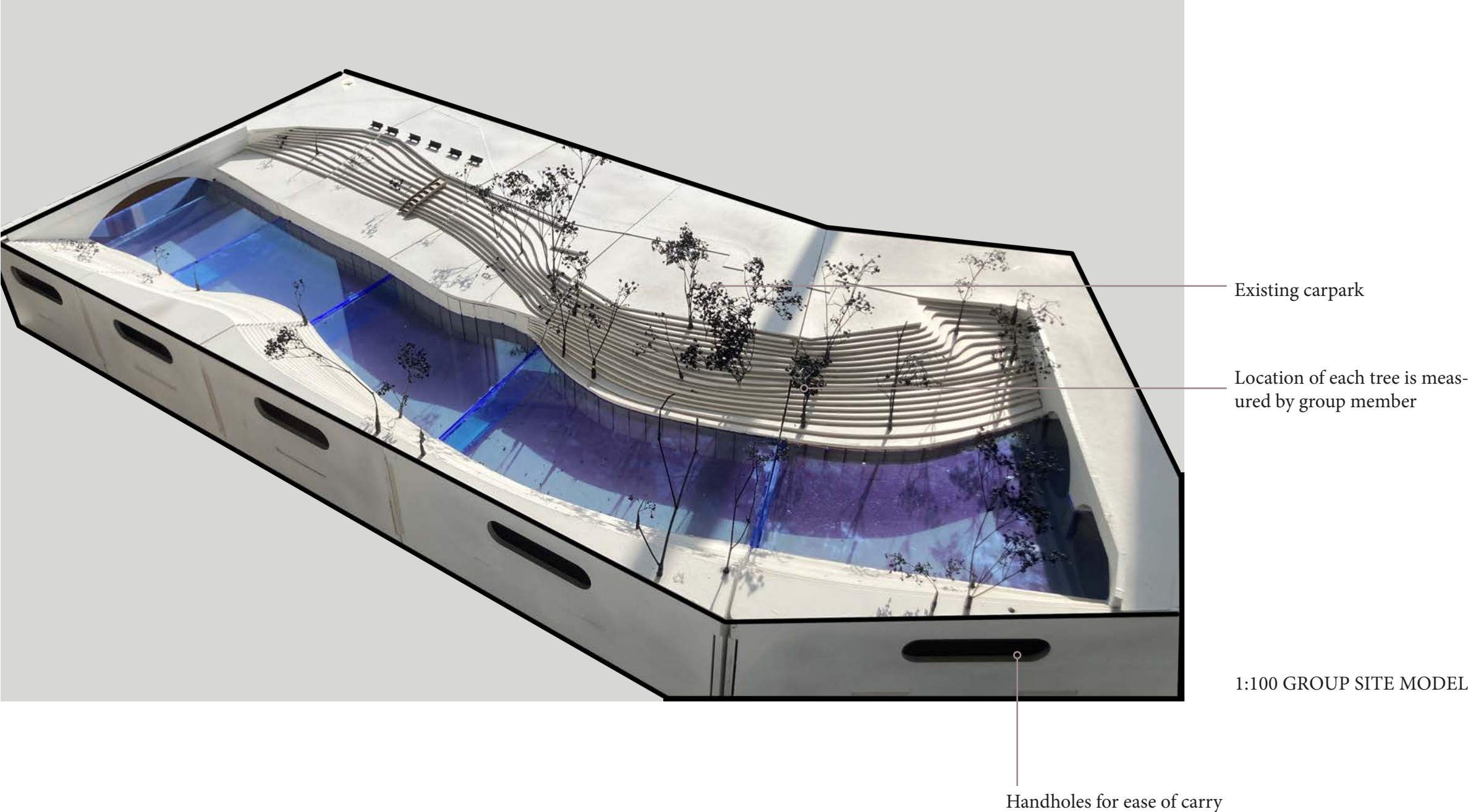
River Tame and Goyt originate from wetland national parks, brings great biological diversity to the site, it also act as local land-mark in stockport.



Reddish vale natinoal parks sit on north of our site, beside River Tame, the park is mainly green space, comprising woodland, flat riverside meadows, sloping fields and providing habitant space for various creature and plants.

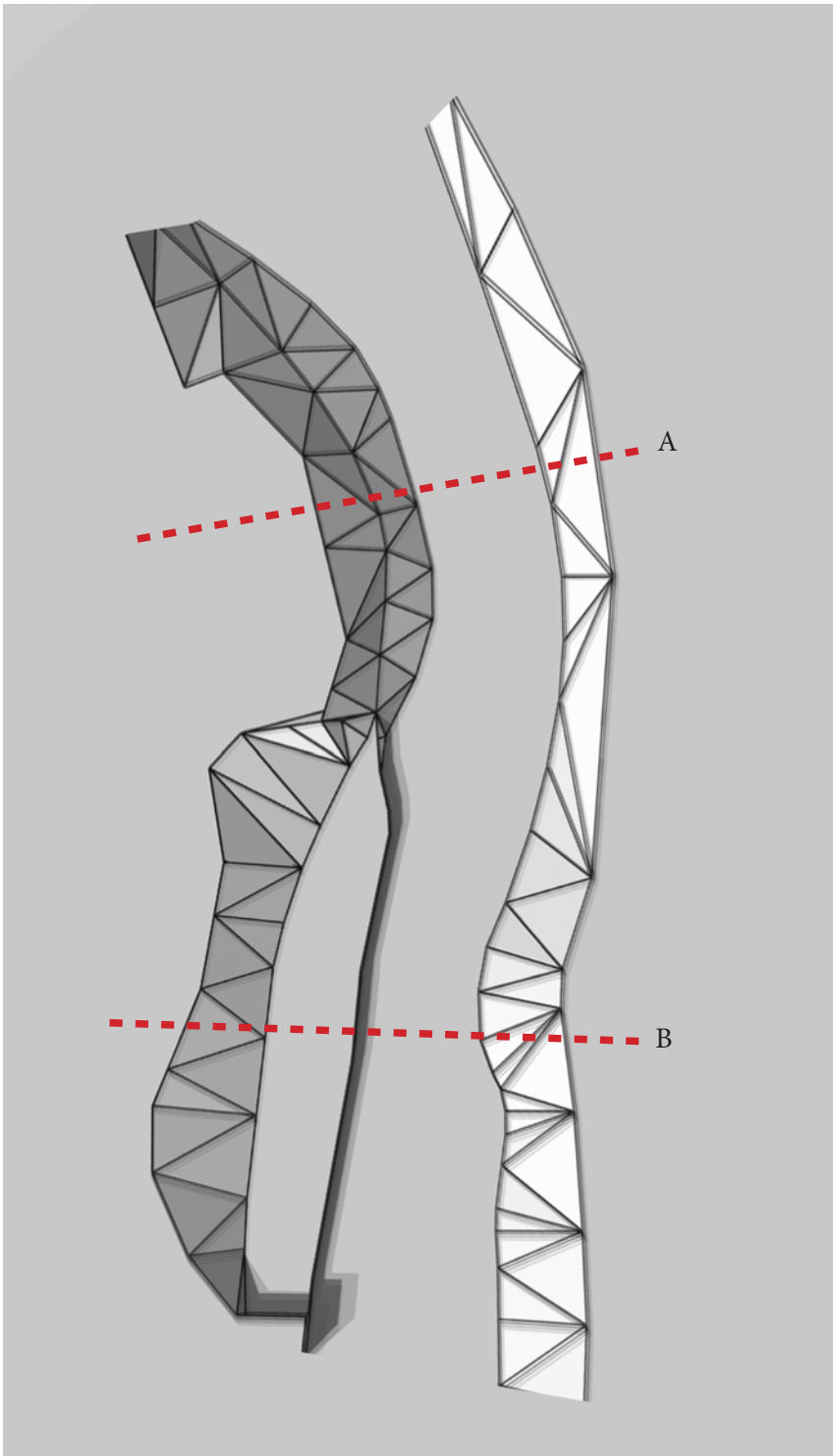
It is also a great leisure space for the city, great oppotunity lies between connecting the city centre and the park.

SITE MODEL

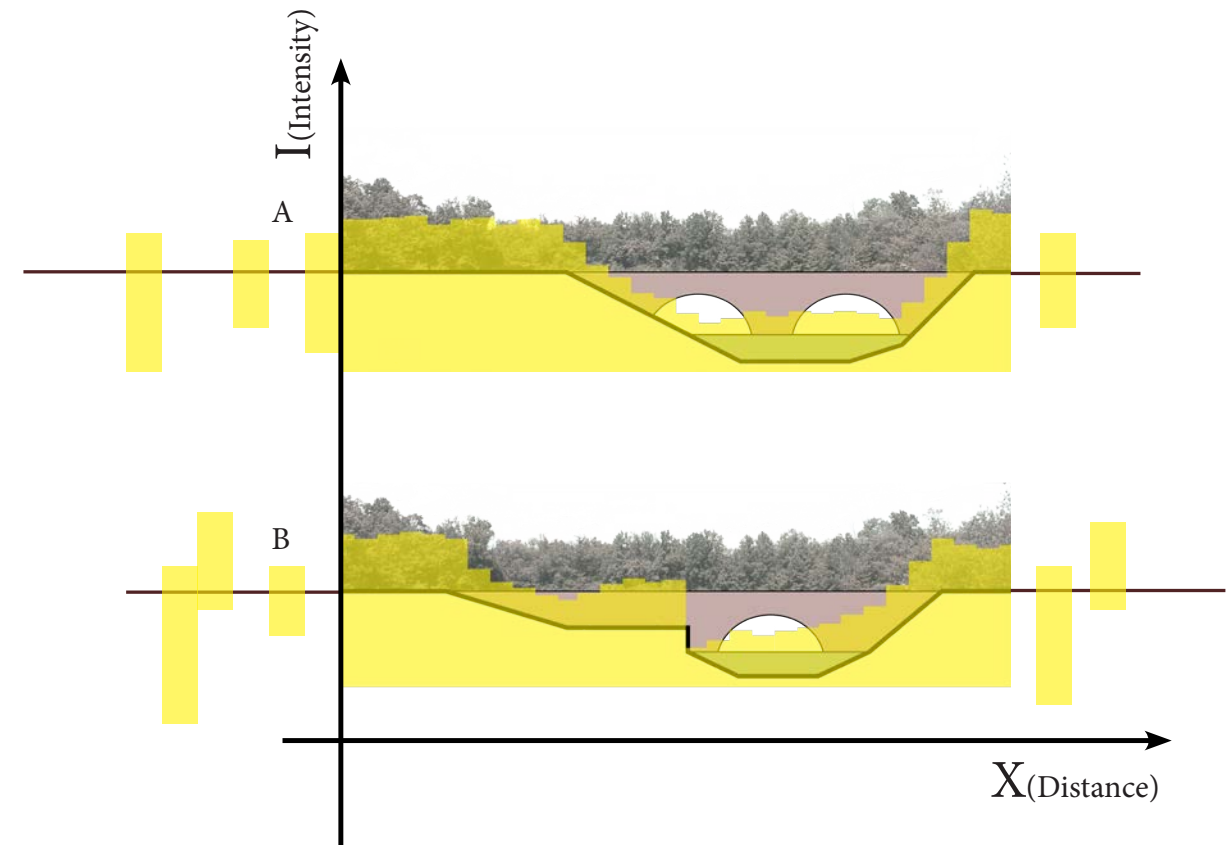


The construction of site model has greatly helped us to design out project much faster and with a more engaging experiance, every studio member joined this project andc ontributed a collecteive of more than 100 hours.

SUNLIGHT



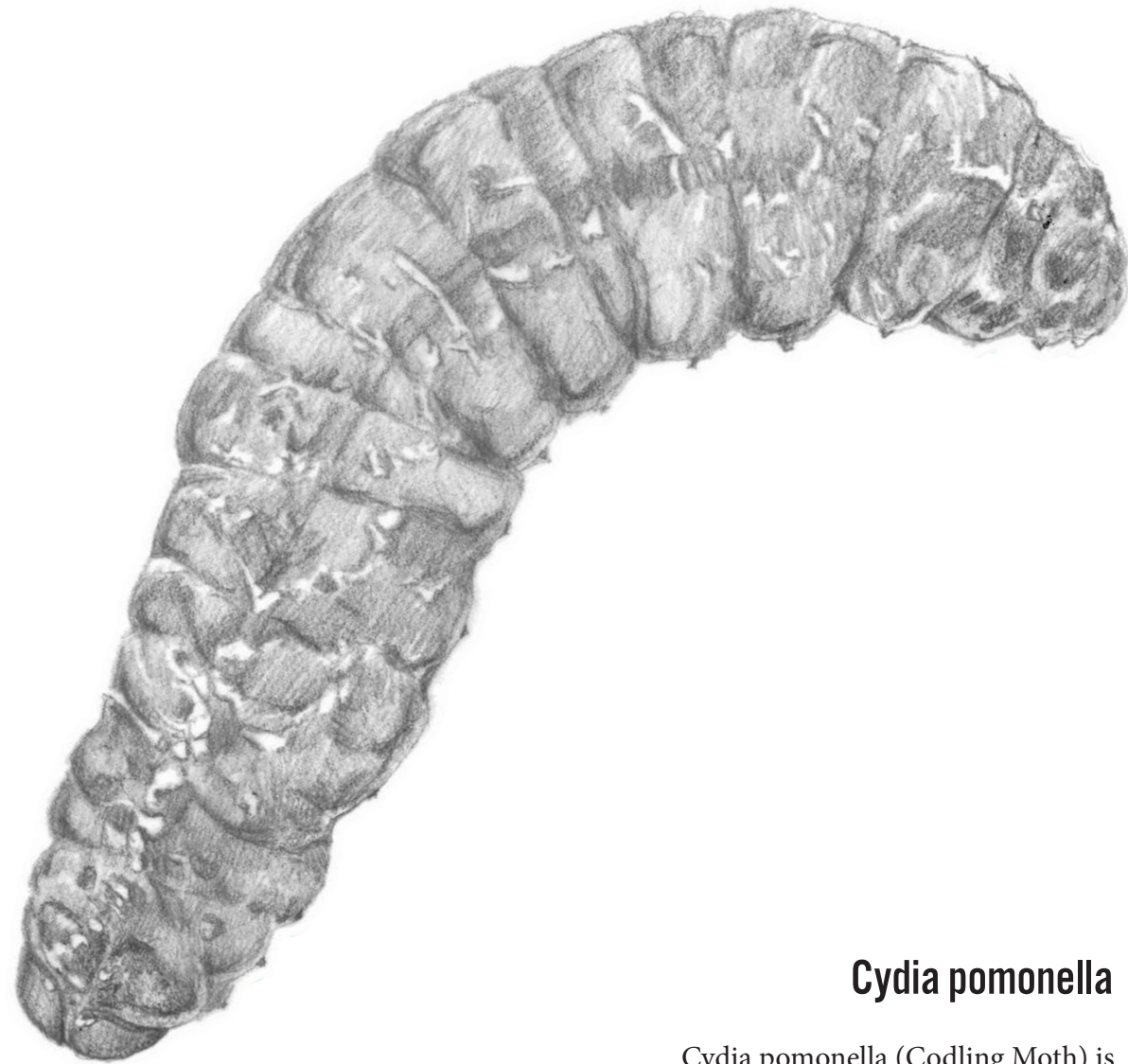
Overlay of sunlight intensity in a year



The Average solar radiation in stockport is around 1000kWh/m²/yr, a bit lesser than world average of 1361kWh/m²/yr, and due to the humid oceanic climate, clouds blocks off sunlight, thus making stockport a non-sunlight intensive region.

The Sketchup model has simulated average sunlight received throughout a year and we could deduce where has the most sunlight. From the section we can observe that on top of the carparks it provide a vast land with sufficient sunlight across the year, and as it is already a flattened land, makes it a ideal location for gardens to grow plants.

PROGRAMME: LOCAL SPECIES

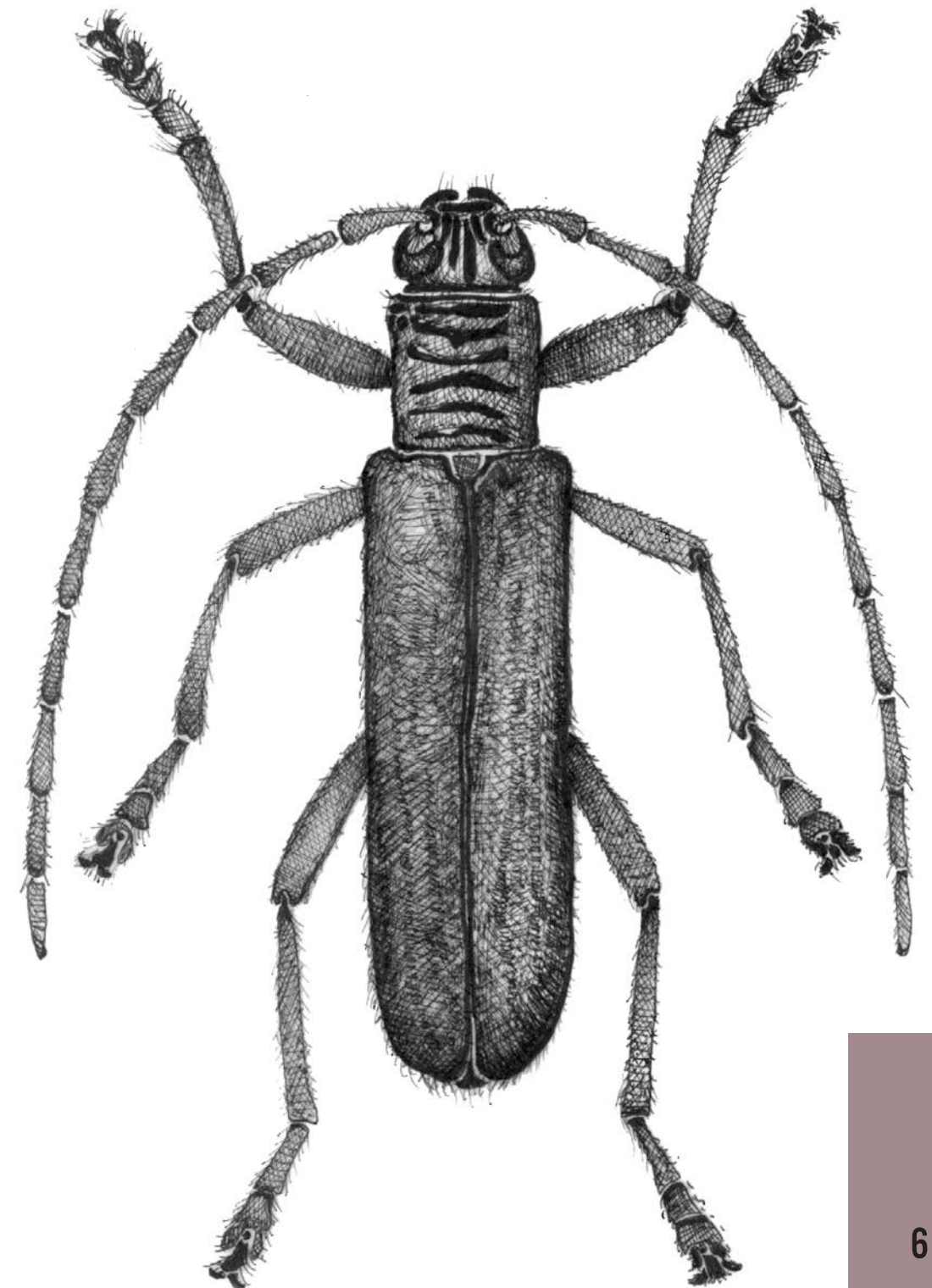


Cydia pomonella

Cydia pomonella (Codling Moth) is a moth that infest apple and pear trees, study of them can help us to minimize damage to fruit crops, and also help us to develop effective pest control strategies.

Oemona hirta

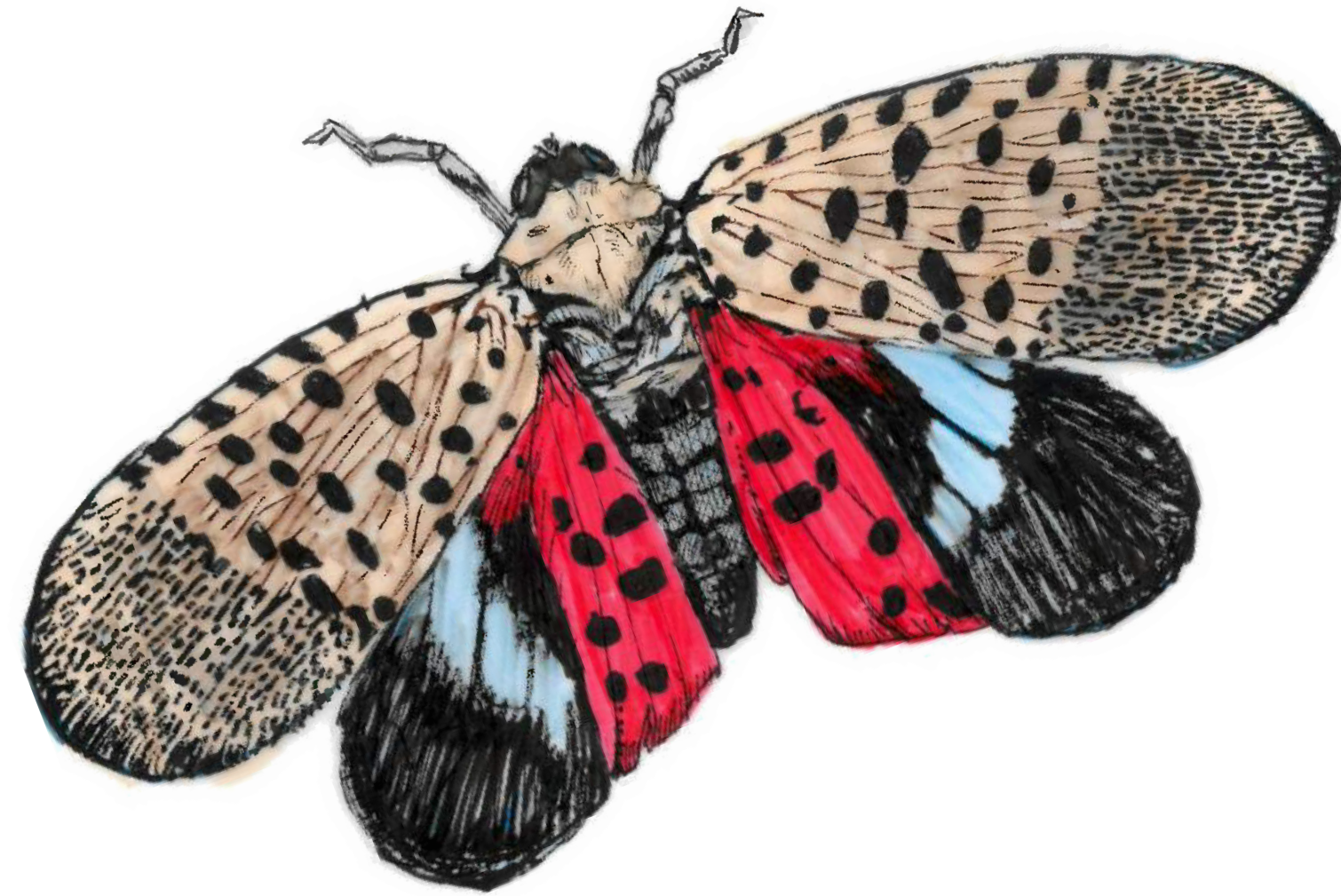
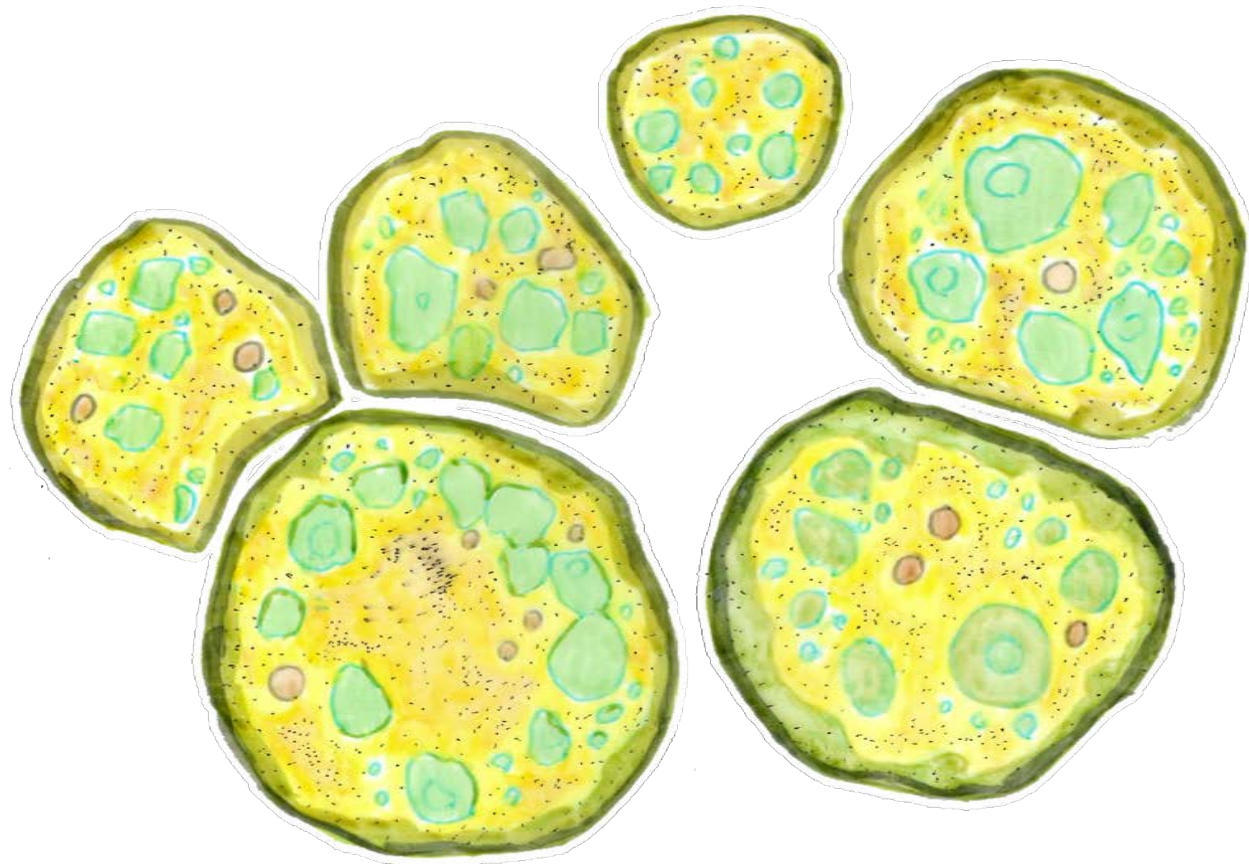
Oemona hirta (The lemon tree borer) is a species of red algae found in marine environments, conducting research on them gives us information of local environmental health and can provide us insight of marine biodiversity, and ecological interactions,



Algae

Algae are a diverse group of photosynthetic organisms that can be found in aquatic environments, it plays vital roles in ecosystems, it is responsible for oxygen production, nutrient cycling, and providing habitat and food for other organisms.

Studying algae helps us understand ecosystem dynamics, inspection of the population of algae or other microbes in the river, calculating the relative total viable count (TVC), allows us to understand the significance of pollution in the river.



Spotted lanternfly

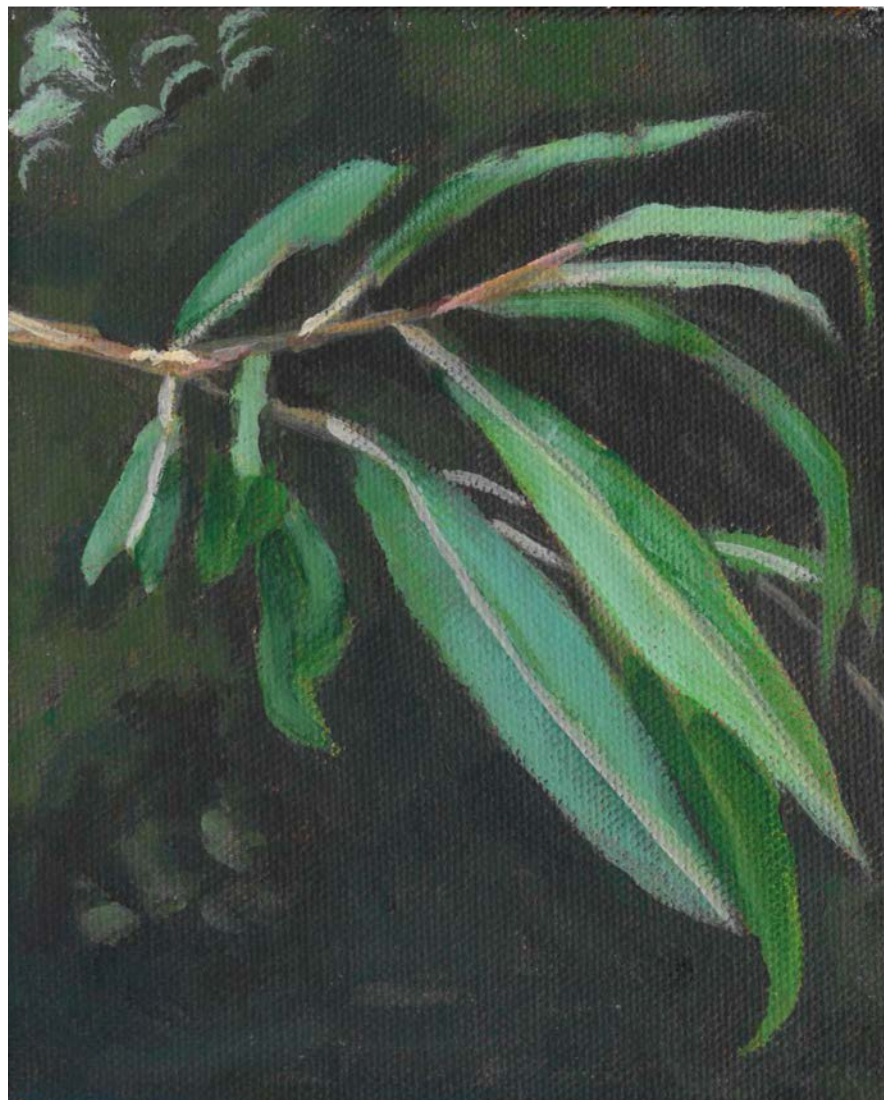
Spotted Lanternfly (*Lycorma delicatula*) is an invasive insect pest native to Asia, causing significant damage to various plants, including fruit trees and ornamental trees.

Studying the spotted lanternfly is useful for developing effective pest-management strategies to control its spread and minimize its impact on agriculture, forestry, and ecosystems, studying of spotted lanternfly also contribute to the study of integration of invasive and native species.

White Willow

White Willow (*Salix alba*) is a deciduous tree native to Europe and Western Asia, it is usually seen in landscaping and often planted for erosion control along riverbanks and in wetland restoration project,

Other than that some chemical content in the barks of the white willow has been claimed to have Medicinal use, it is similar to aspirin and has been traditionally used to relieve pain and reduce fever.



Amanita muscaria

Amanita muscaria (Fly Agaric) is a species of mushroom found in temperate and boreal regions of the Northern Hemisphere, it has a long history of cultural and religious significance in various indigenous cultures, it has been used in rituals and shamanic practices.

the study of *Amanita muscaria* and other fungi species provides insights into human-fungi relationships, new-material, and post-humanism.



Guelder Rose

Guelder Rose (*Viburnum opulus*) is a deciduous shrub native to Europe, Northern Africa, and Northern Asia. It is usually used for ornamental purposes; its snowy white flowers and bright red berries make it a popular choice in landscaping and garden design.

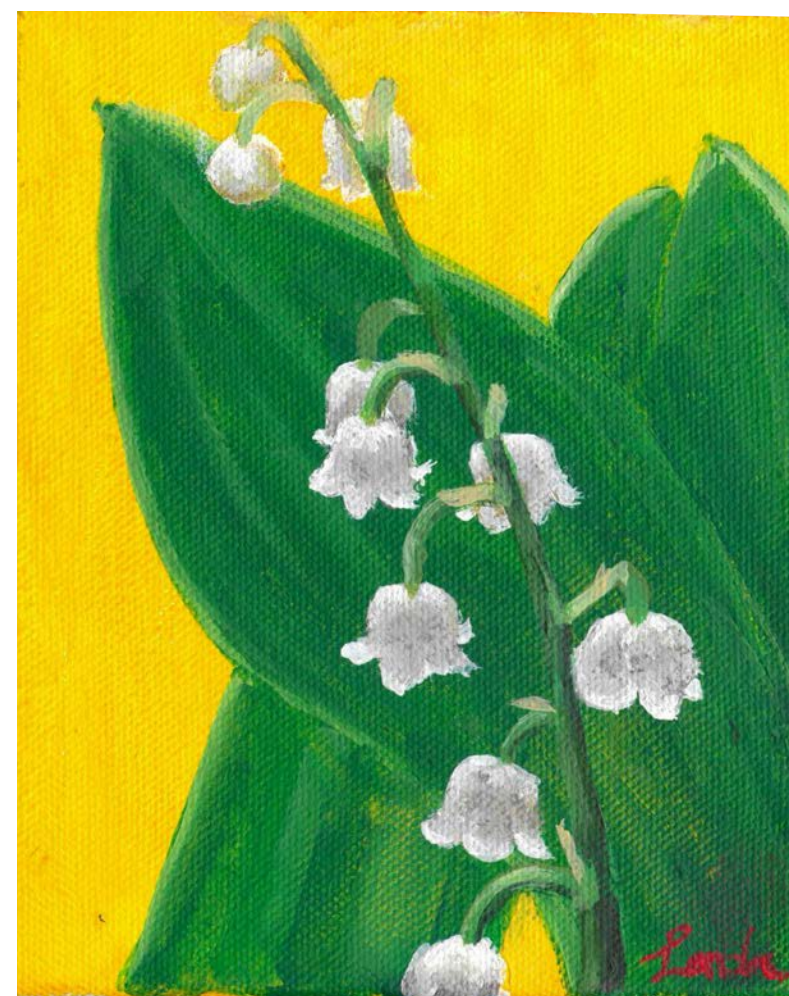
The berries of Guelder rose attract birds and small mammals, contributing to biodiversity and providing a food source for wildlife.

There is also a claim that Guelder rose has been used in traditional medicine, although scientific evidence is limited.

Lily of the Valley

Lily of the Valley (*Convallaria majalis*): is a perennial herbaceous plant native to temperate regions of the Northern Hemisphere; it has a significant ornamental use since it is prized for its fragrant, bell-shaped flowers and is commonly cultivated in gardens and used in floral arrangements.

While it is toxic if ingested, Lily of the Valley has been used in traditional medicine for its cardiac glycosides, which have been studied for their potential pharmaceutical applications in treating heart conditions.



PROGRAMME: HERBARIUM



BUDDLEIA



THE DOG ROSE



BRAMBLE



BUTTERFLY BUSH



FIREWEED

Plant pressing

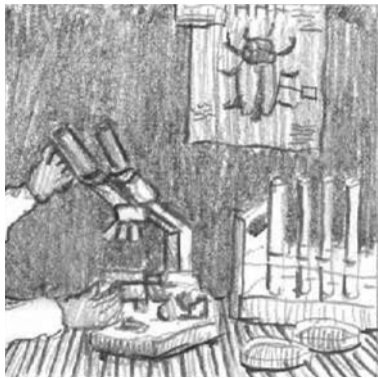
One of the most important way to show-case plant species is herbarium, from the process of plant pressing, human were able to maintain the fibertissue of the plants and at the same time remove water molecure to mitigate the change of rotten and pest infection.

During one of the trip to the site, me and my friend collected the local speicies on the site and did plant pressing ourselves, and made samples of plants accordingly.

PROGRAMME: CLIENT



OFFICE



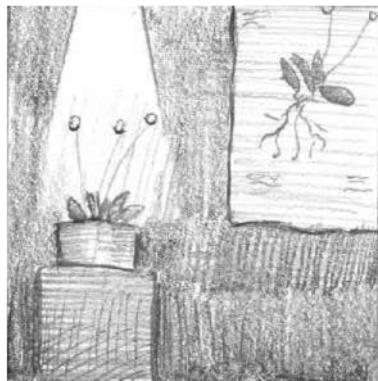
LAB



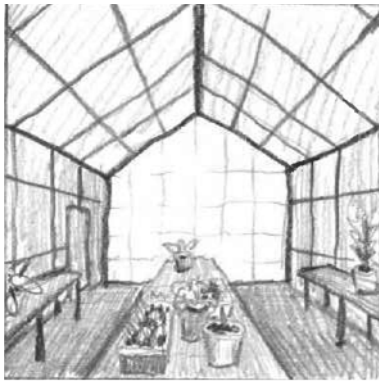
FLOWER SHOP



PROMENADE



MUSEUM



GARDEN

The Environment Agency (EA) is a non-departmental public body in the United Kingdom, sponsored by the Department for Environment, Food & Rural Affairs (DEFRA). Established in 1996, its primary mission is to protect and enhance the environment in England. The EA plays a crucial role in regulating water resources, managing flood risks, and controlling pollution to ensure a cleaner and healthier environment.

The EA wants to establish a workstation in Stockport, investigate and document the local environment, and conduct general-ordinary research and experiment.

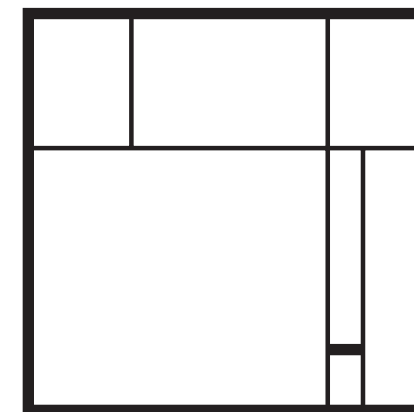
EA found the eco-geological advantage of our site, it sits at the confluence of the river Goyt and Tame, near the Reddish vale park, and close to the city center, providing all essential conditions for EA staffs to base here.

Thus The Stockport Plant Protection Agency is established, it is dedicated to document and archive local species, grow plants and conducting experiment on harmful pest, doing office works to report to EA, and promote social and environmental awareness to the public.



Disorder

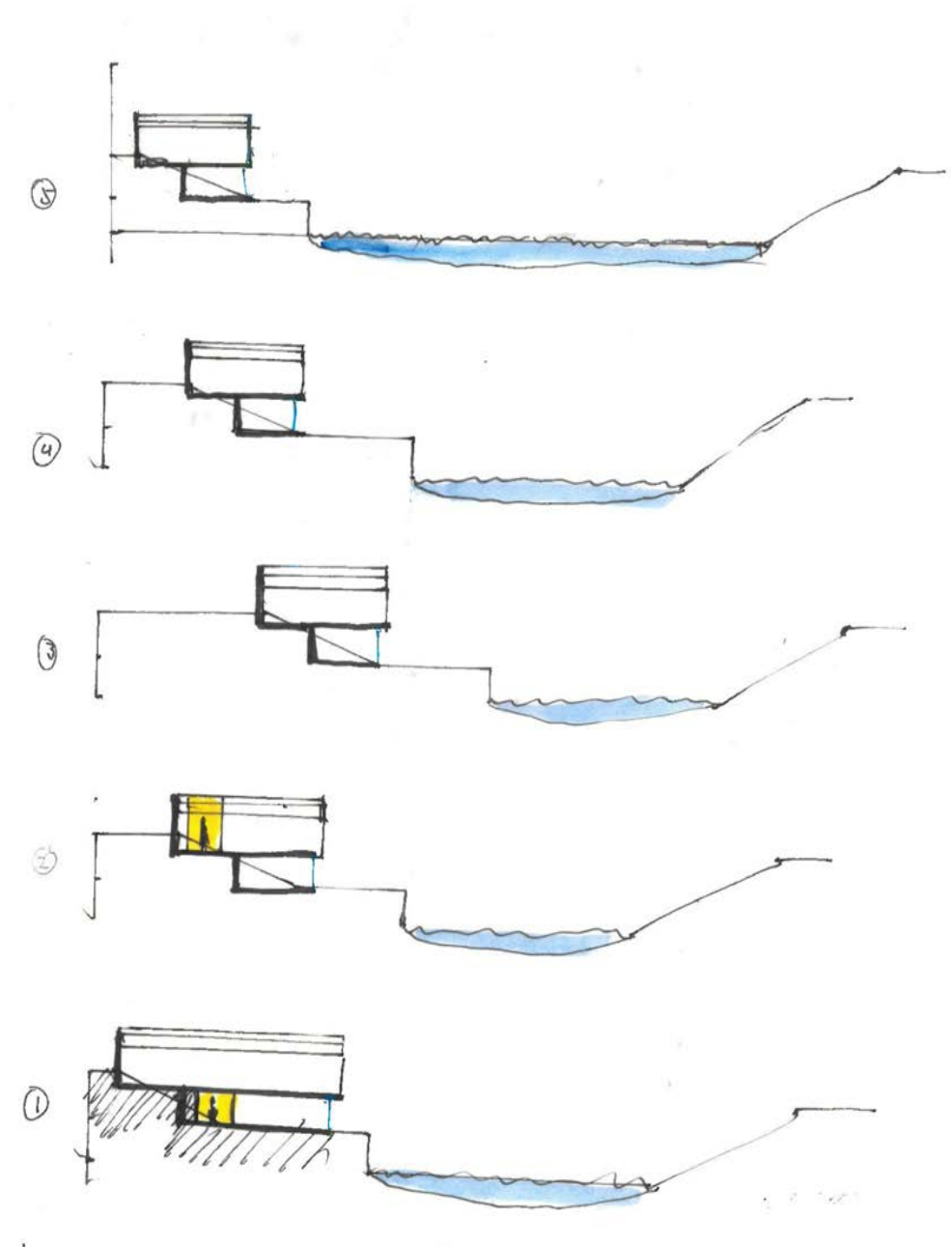
- Creative
- Adaptable
- Uniqueness
- Organic
- Natural
- Subjective
- Inclusive



Order

- Efficient-
- Durable-
- Tradition-
- Authoritarian-
- Formal-
- Simplicity-
- Coherent-

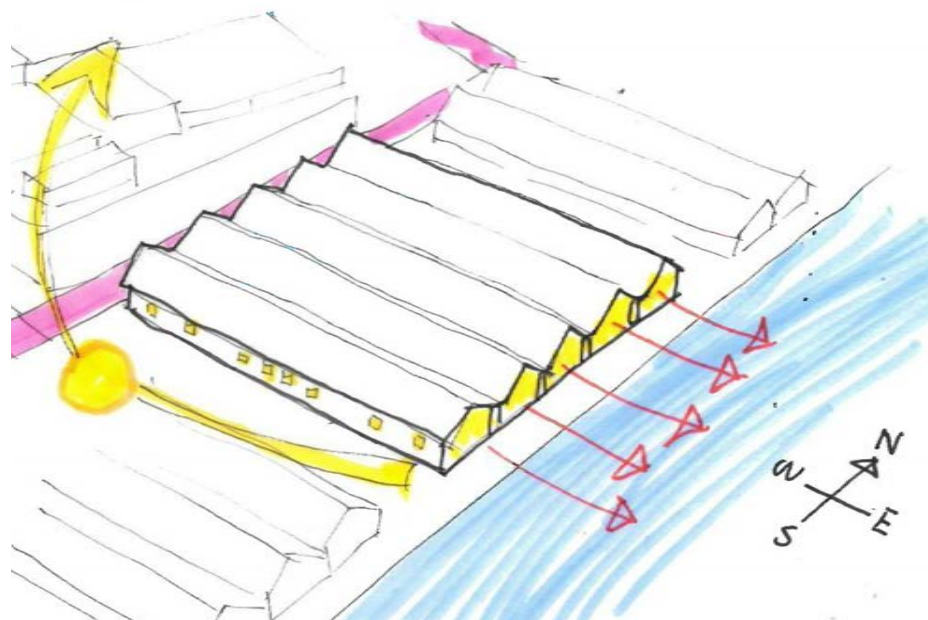
CHAPTER 1: FIRST ITERATION



INITIAL INSPIRATION



The design of this project is heavily influenced by the office building of 3XN, an architectural firm located at Copenhagen Denmark, during my visit to their office i found the natural beauty and harmony of its simple shape, a traditional Home shape.



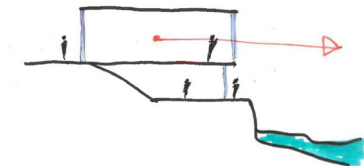
The design of the office building allows big working space, open plans allows direct view from one side of the building to the scene of the river, and as the building is close to the river, allows reflection on the river surface.

DESIGN IDEA

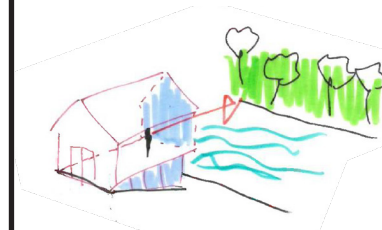
Double floor hight and big glazing window allows more visual space of the river.



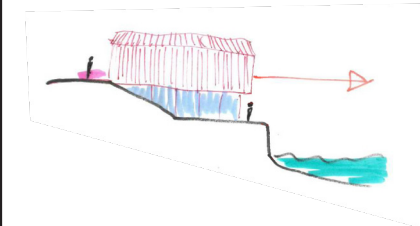
Open space floor plan provide more visual freedom on observing outside



Vegetaton on the other side of the bank to increase nature elements around the space.



Office building facing toward the river, concentrati ng the view on the other side of the bank and the river.



Building orientation is dictated by the view to the river, gaps between individ- ual building to permit view from the public.

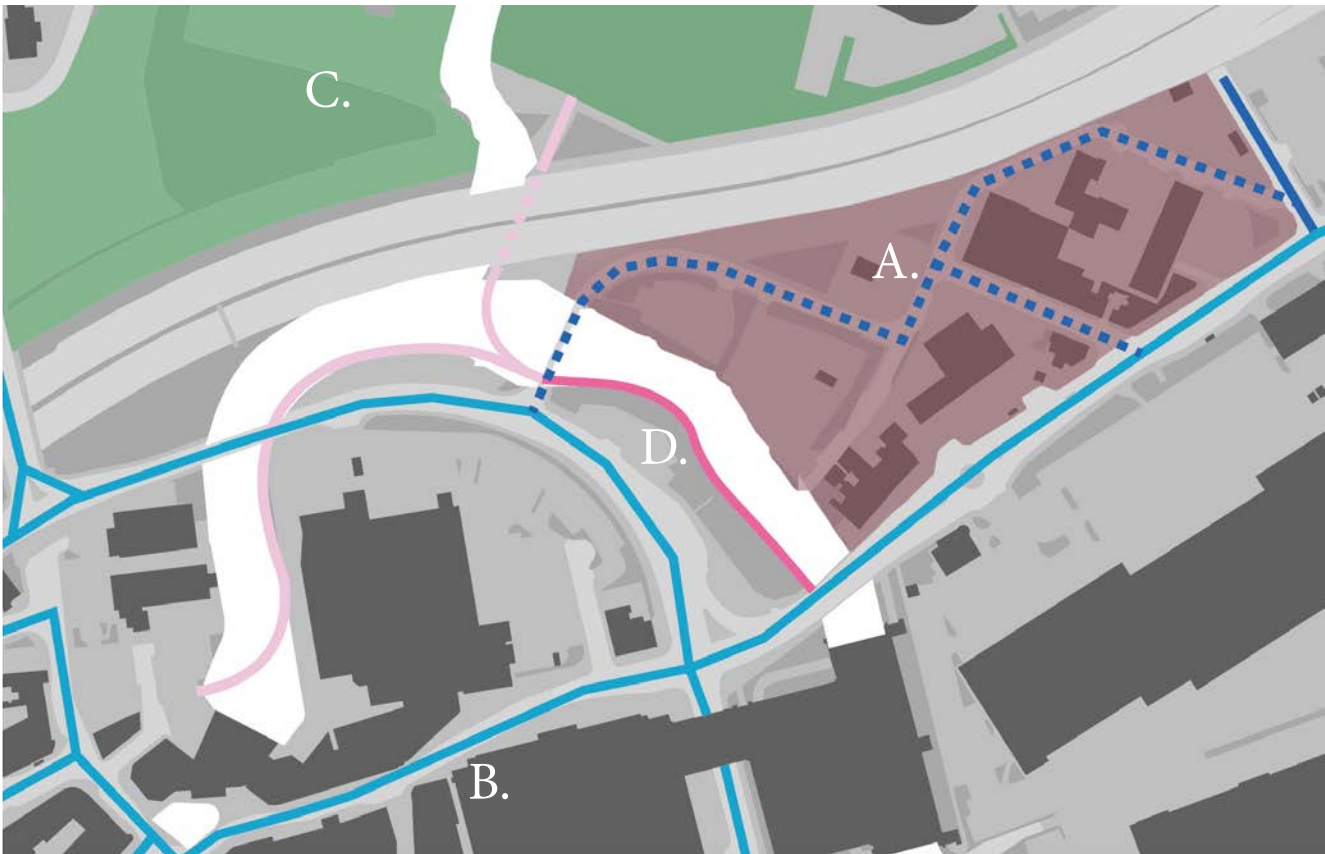


INITIAL PLAN DEVELOPMENT

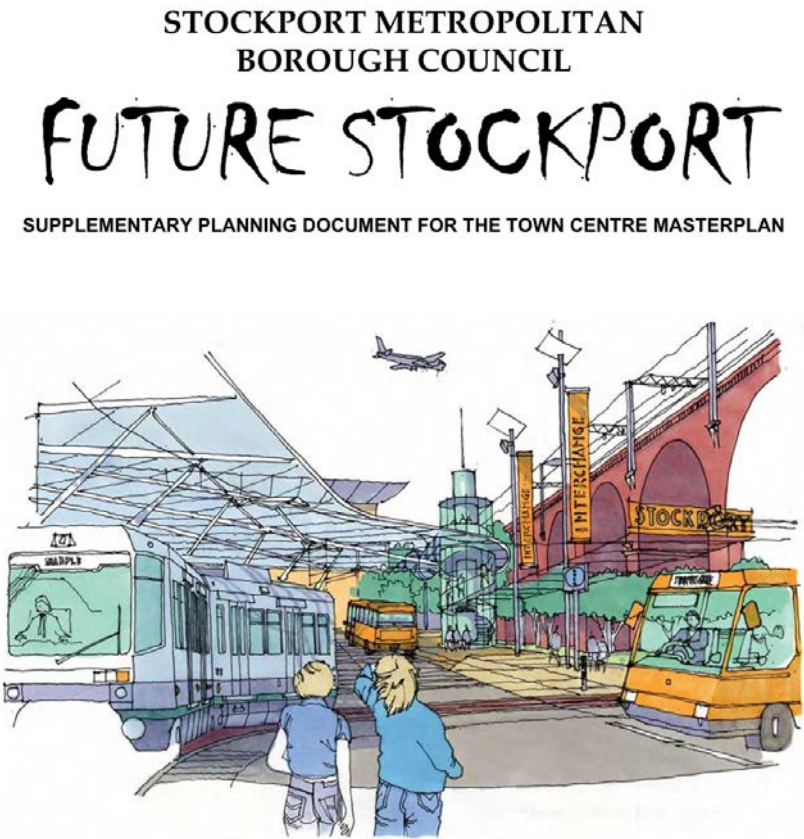


The initial plan indicate that all office building built at the southern part of the site, use the advantage of flat surface and office buildings face toward the river, maximise the natural beauty. Garden are built on the original carpark, utilizing its flat land and sufficient sunlight, the form of the garden follows the same geometry as the office building, to ensure the continuity of the design logic throughout the project.

REVIEW OF THE SITE: URBAN DEVELOPMENT PERSPECTIVE



- Non essential roads
- Useful road
- Low residential area with little traffic need
- Proposed promenade to diverge people form city center to the Reddish park
- Proposed promenade beyond the site boundary



The urban developmet master plan of Stockports has indicated a few strategic planning principles directly linked to our site:

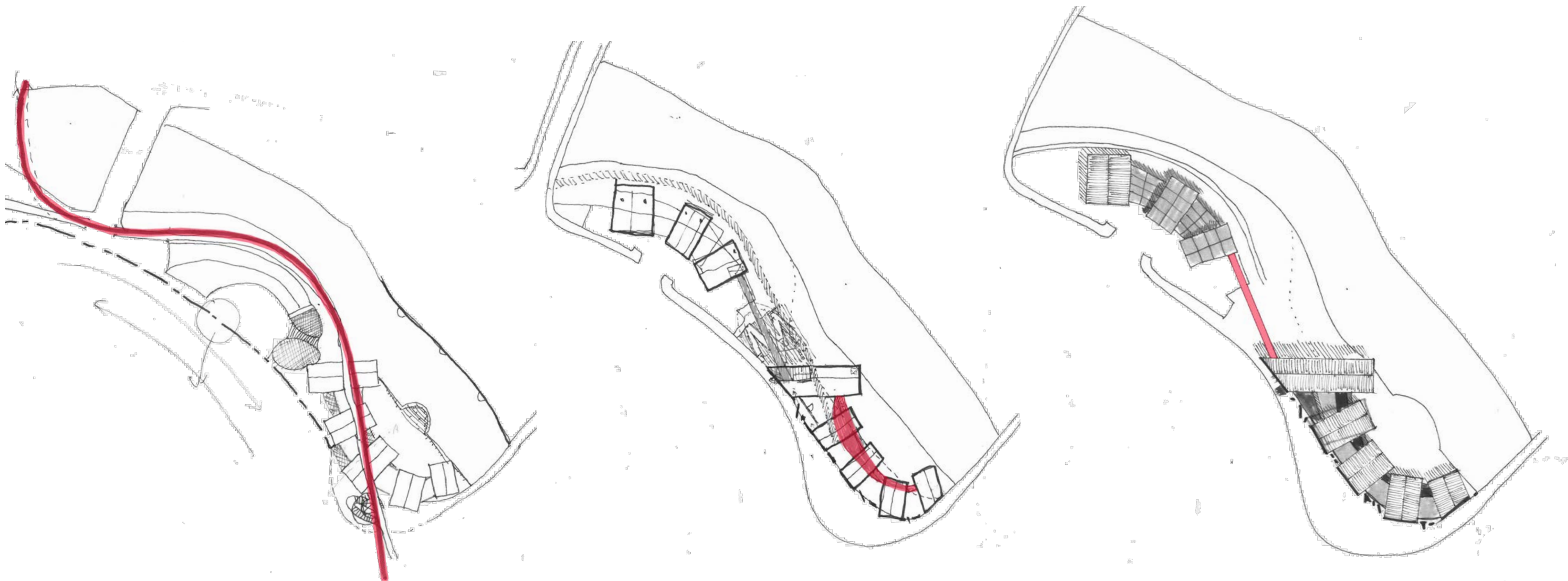
A: This less populated area lack sufficient urban development regulation, presenting an unpleasant architectural view from the manchester highway and the surrounding neibourhood.

B: The city centre is crowded, and the new urban development is focused on expanding its business district, eg: north.

C: The council wants to increase the bond between the city and the park, thus boost a healther and more sustainable way of life.

D: Our studio site may act as a stratigic linkage point between the urban development of the city, connecting the Reddish Vale park and the city centre.

DEVELOPMENT:CONNECTIVITY



Flexible promenade

To encourage public access to the site to contemplate the natural beauty of the nature, the promenade is designed to start at the busy junction of the Knightsbridge and Warren streets, and potentially directly guide people to the heart of the park.

the promenade was design to cut throught few buildings to promote the idea that public right over property right, also makes a interesting architecture. (discarded in latter design)

Connecting spaces

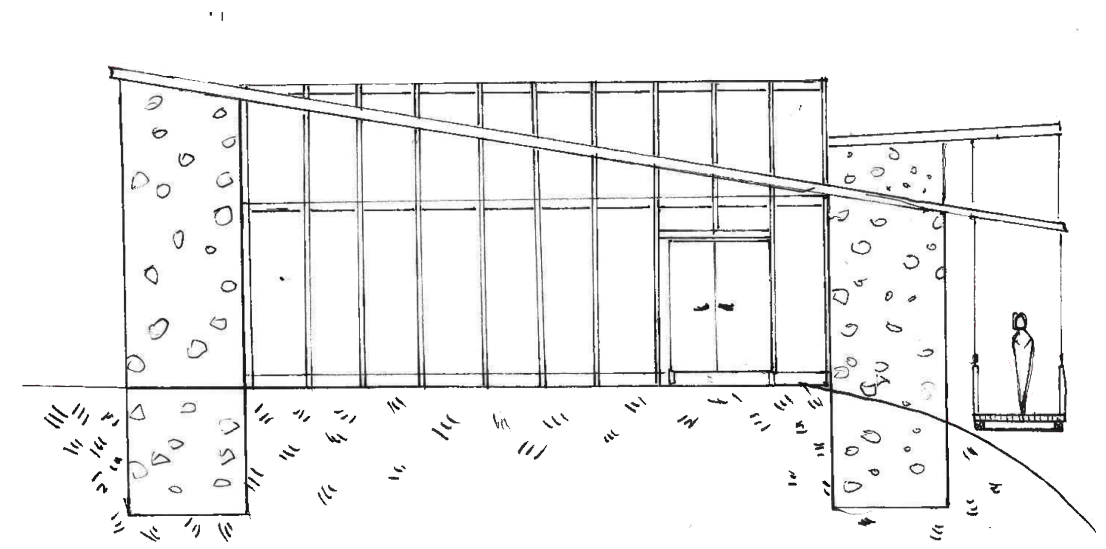
Glass office hallways is proposed to connect each office buildings to allow free movement within the office area.

Skybridge

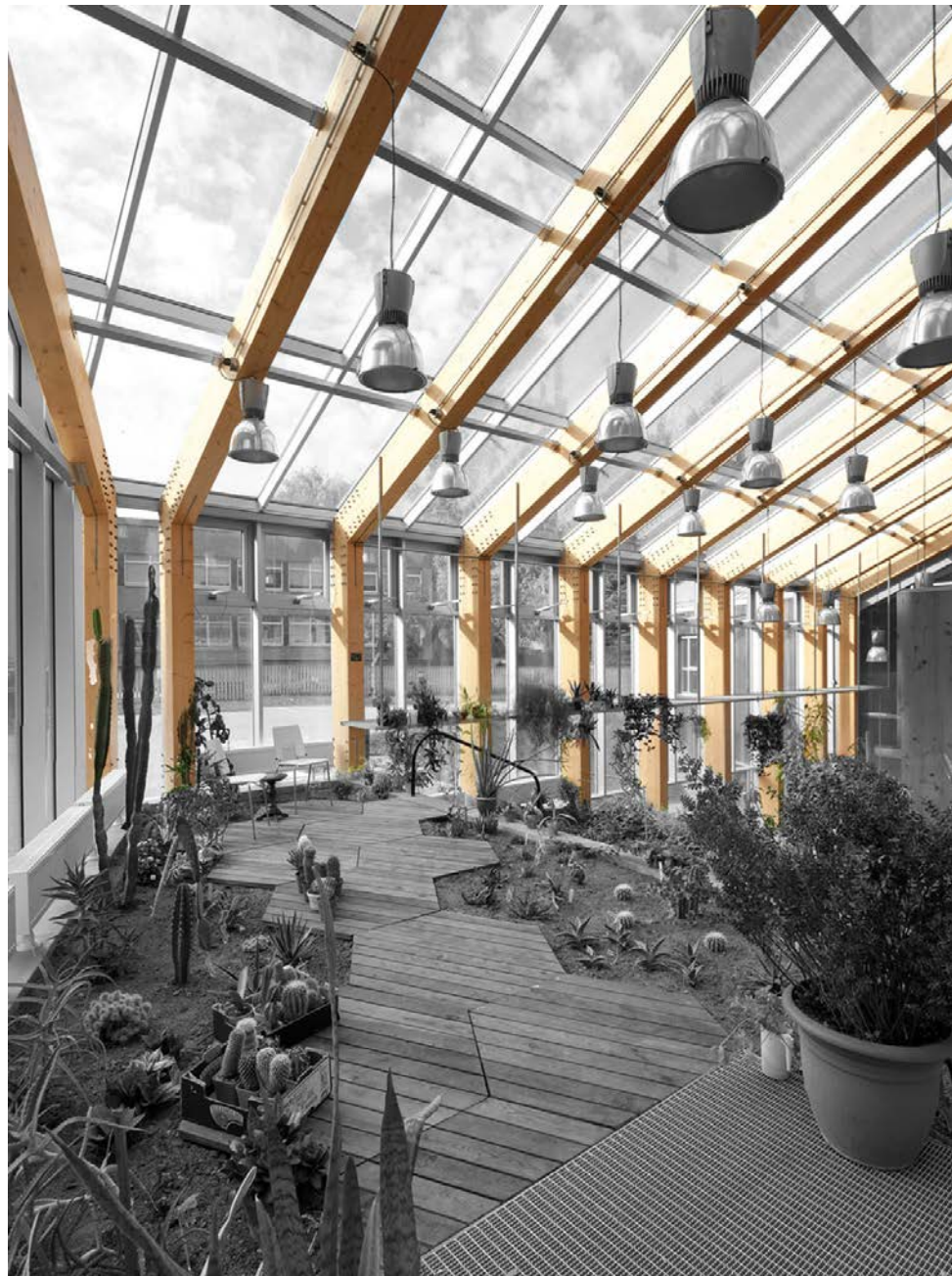
A skybridge is proposed to link the garden space with the laboratory, for the covenience of transporting plants and equipments.



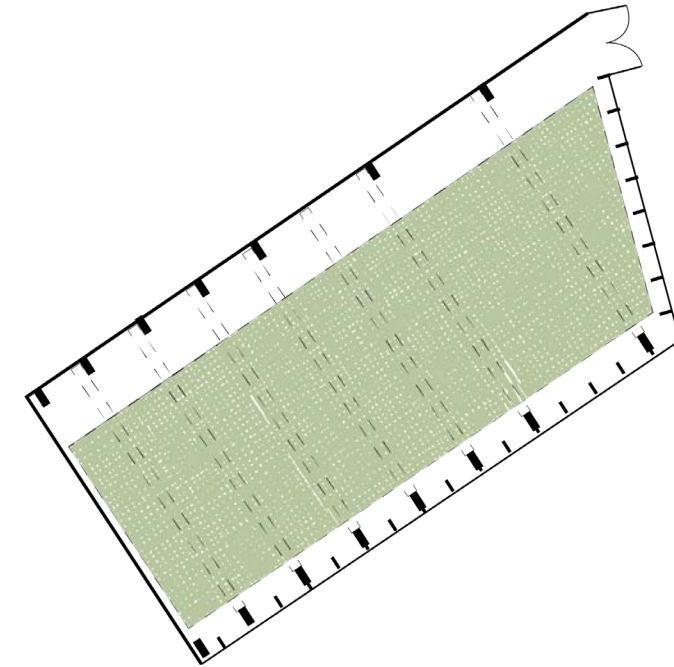
CHAPTER 2: GARDEN DESIGN



PRECEDENT:STRUCTURE-TIMBER



Tartu Nature House / KARISMA Architects



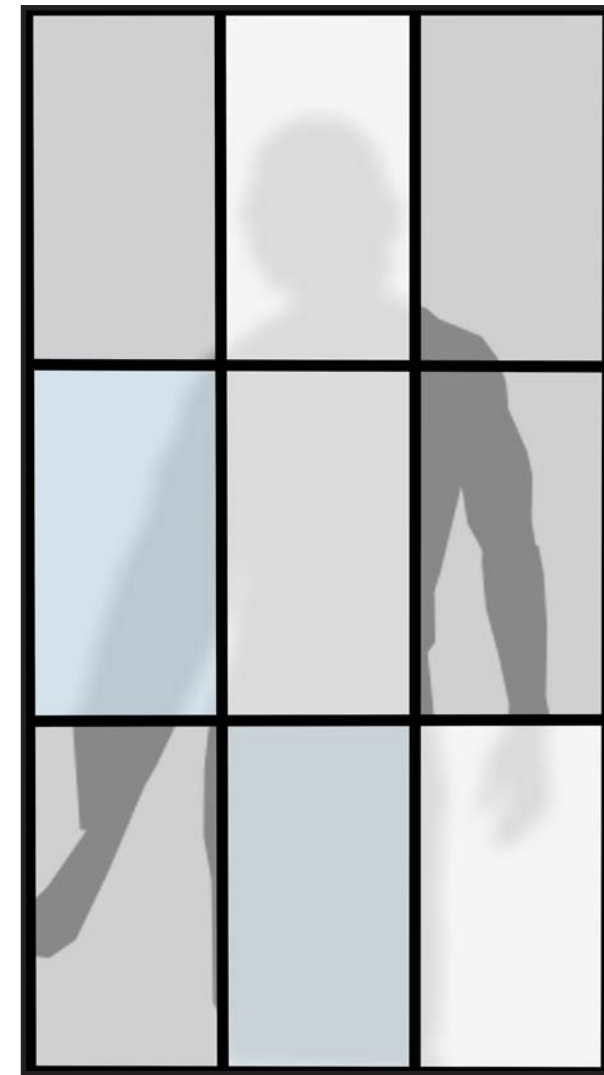
The structural system of the garden will be timber structure, thick timber beam stands at each side of the wall, trusses goes below the roof and transfer the load onto the beam, with bracing in between further strengthening the structure.

in comparison timber produces 30% less carbon footprint than steel structure, however class 4 wood treatment is needed on the wood to prevent erosion, fungal and insect attack.

PRECEDENT:MATERIAL-GLASS



The Cité de l'Océan et du Surf by Steven Holl Architects, Biarritz, France



Frosted glass

The mix use of frosted glass and regular glass allows an exchange of both clear and blurry visual, creating a mysterious, curious, and unpredictable scenery.

Polycarbonate sheet can achieve the same effect however due to the unsustainable material nature and low-recyclability, glass is comparably better.

Installing frosted glass not only permit natural light in, but also increase the privacy of the garden.

INSPIRATION:DESIGN



Collage of Stonewall in front of CAMP and Tartu House.

The use of concrete in greenhouse/garden designing is usually seen as as incongurent, but in this project i propose a innovative design principle to promote sustainable awareness.

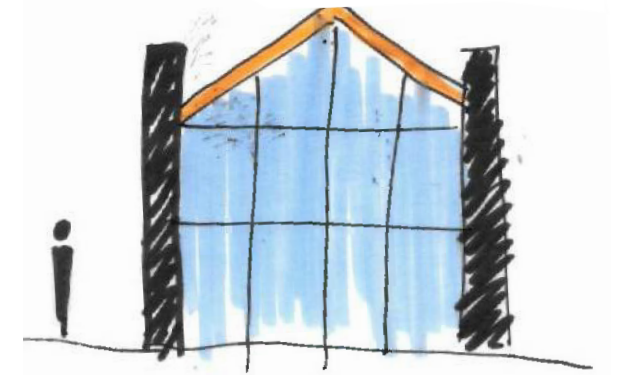
Combining the design of the concrete wall in front of the Centrum architektury a městského plánování, and the body of Tartu house garden, creates a very intriguing visual effect.



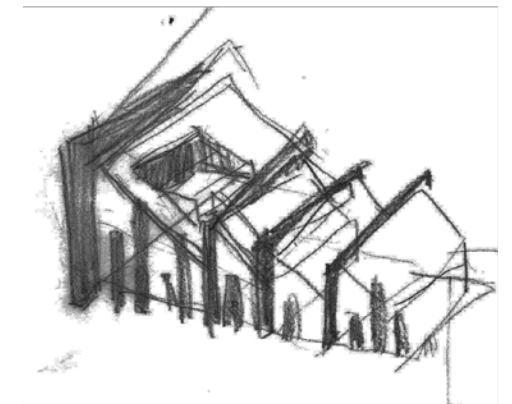
Prague Czechia/ Centrum architektury a městského plánování

DESIGN IDEA

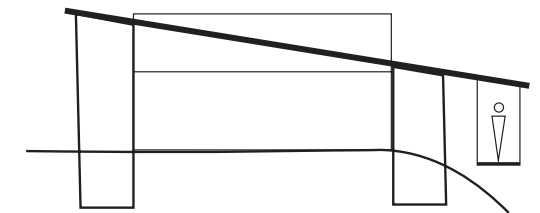
constrast of glass and concrete, light of heavy, create a sense of discomfort, and emotinally driven people to think.



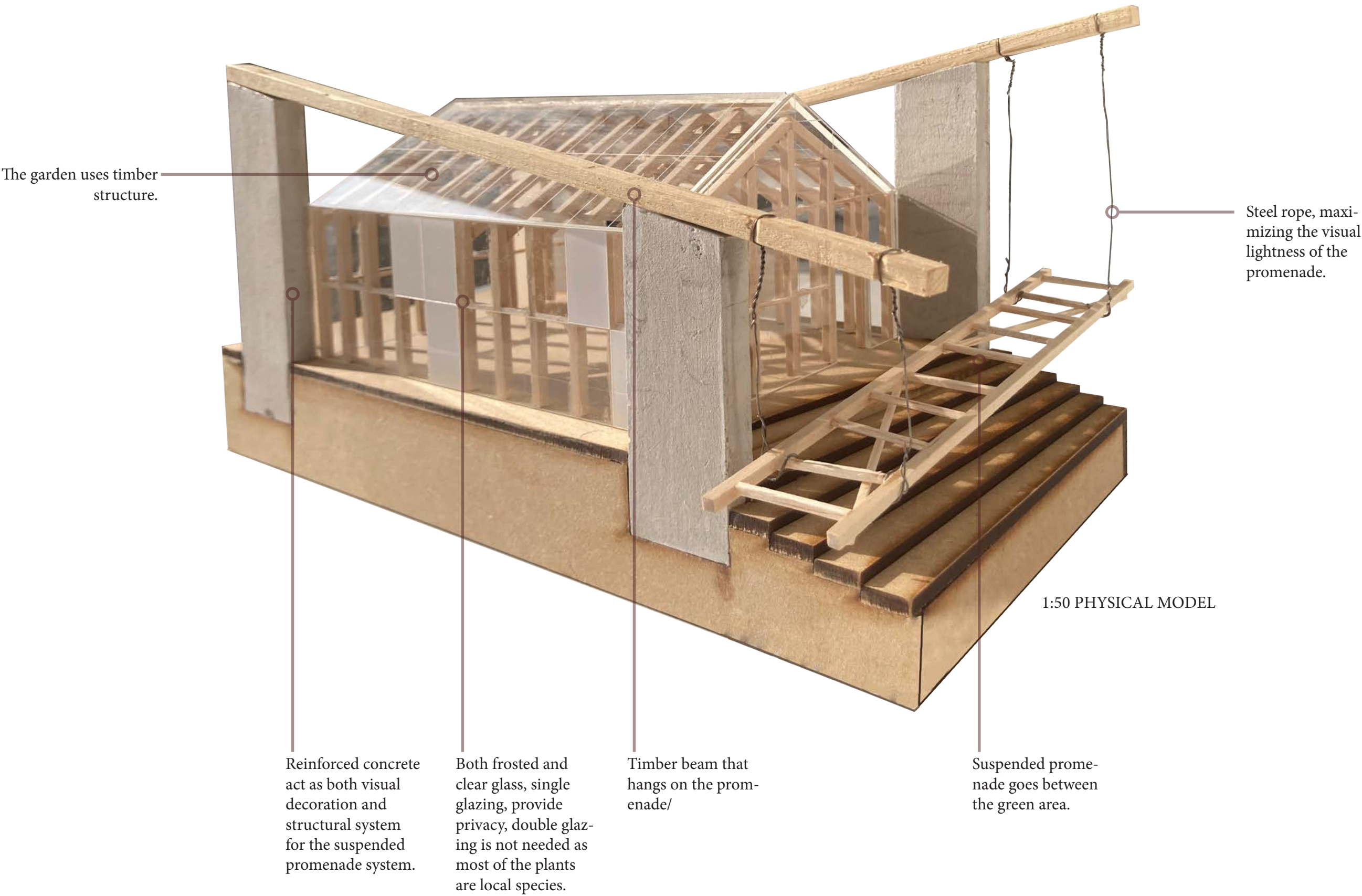
Concrete sits in between the green house, create a sense of division in space and function.



The use of the concrete is not only used for visual purpose, it also act as a structural system which suspend the promenade which goes around.



GARDEN DESIGN MODEL



Sustainable & Non-sustainable

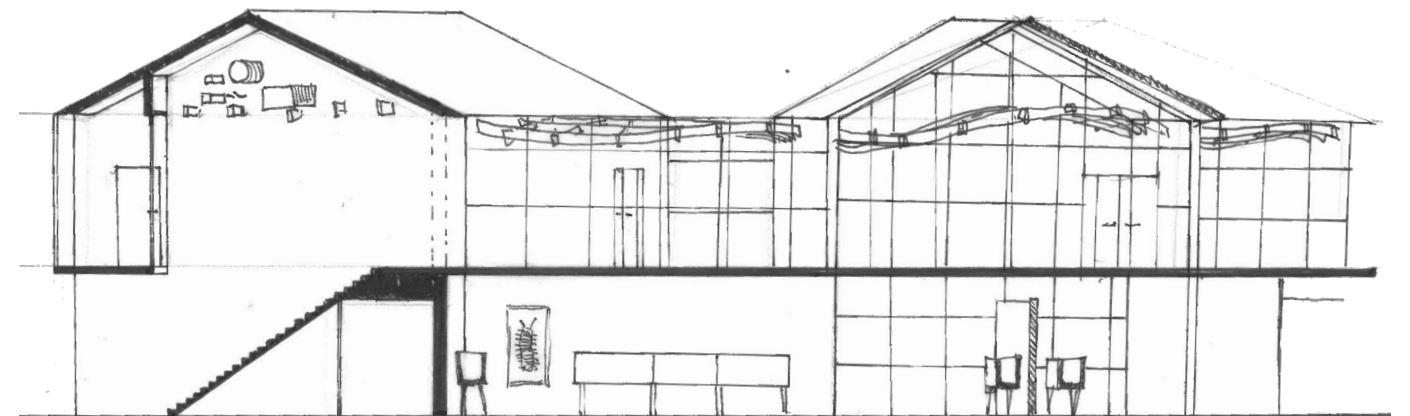


Greenhouses and indoor gardens stereotypically symbolize growth, nature and sustainability, representing a harmonious relationship between humans and nature. In contrast, the architecture of concrete is typically associated with rigidity, industrialization and carbon emission, symbolizing an era of utilitarian design.

When these two elements are presented in the architectural design, the strong contrast manifests a tension between organic and inorganic, natural and artificial, sustainable and unsustainable, order and disorder. This contrast stimulates a range of emotions from the blending of such distinct elements, it creates a sense of discomfort and reflects on people's thinking of modern construction and practises.

This incongruence brutally created a dialogue between the architecture and perceiver, inducing us to reconsider the perception of building material, promoting social awareness of sustainable development.

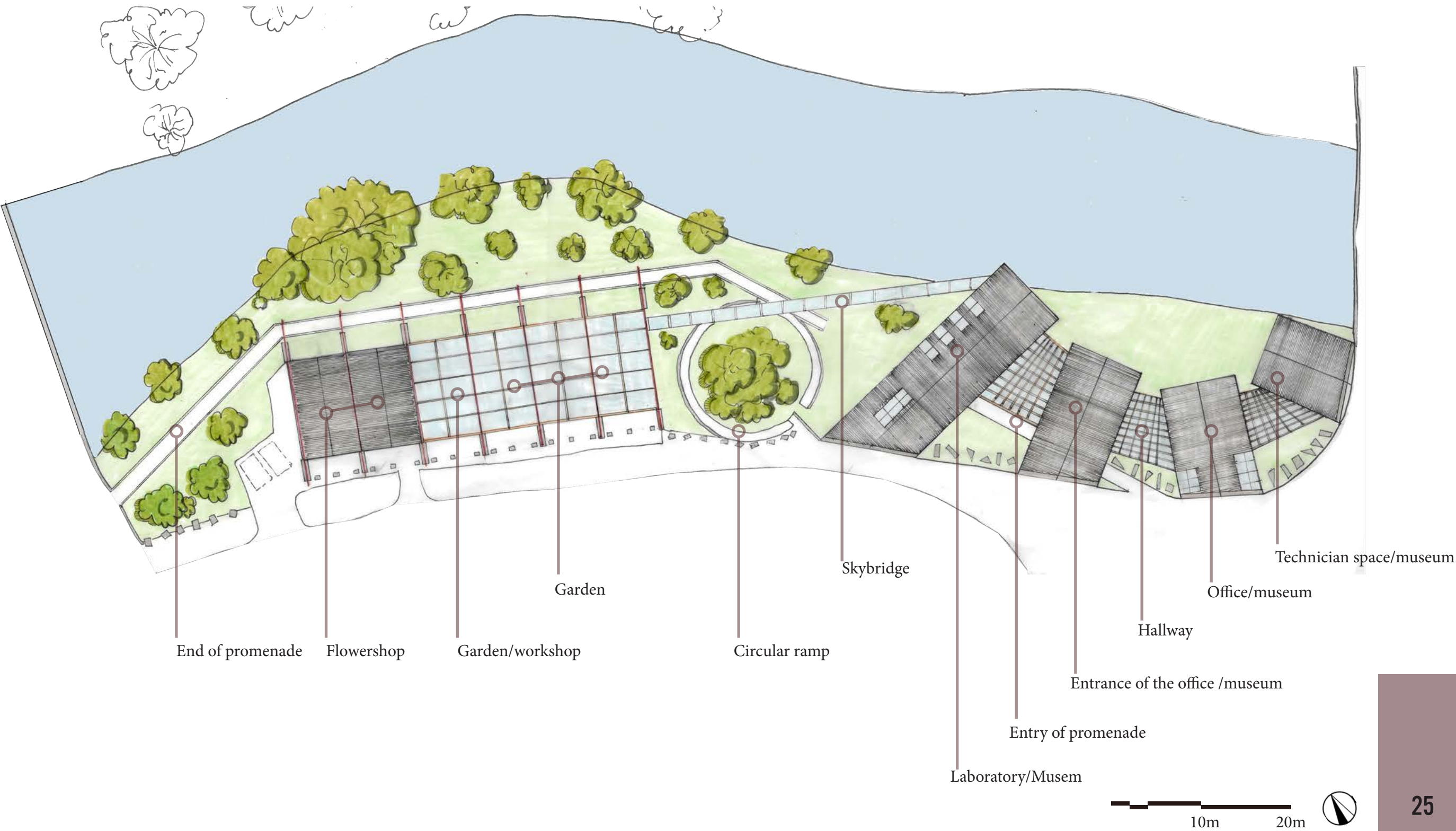
ITERATION 1 RESOLUTION



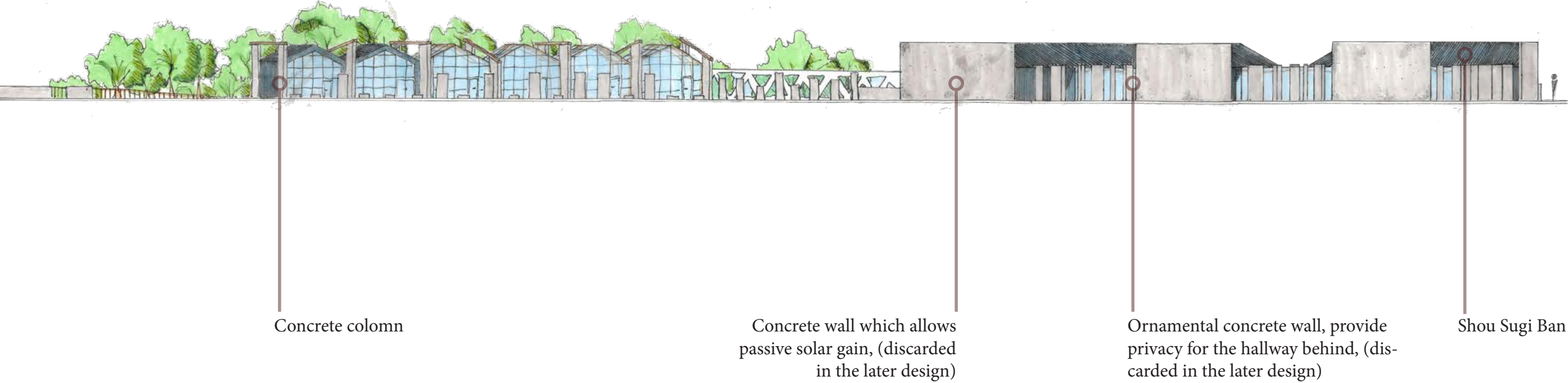
Section indicate the entry of promenade cuts through the office building, followed by stair cases at the end.

ITERATION 1 MASTER PLAN:BIRDVIEW

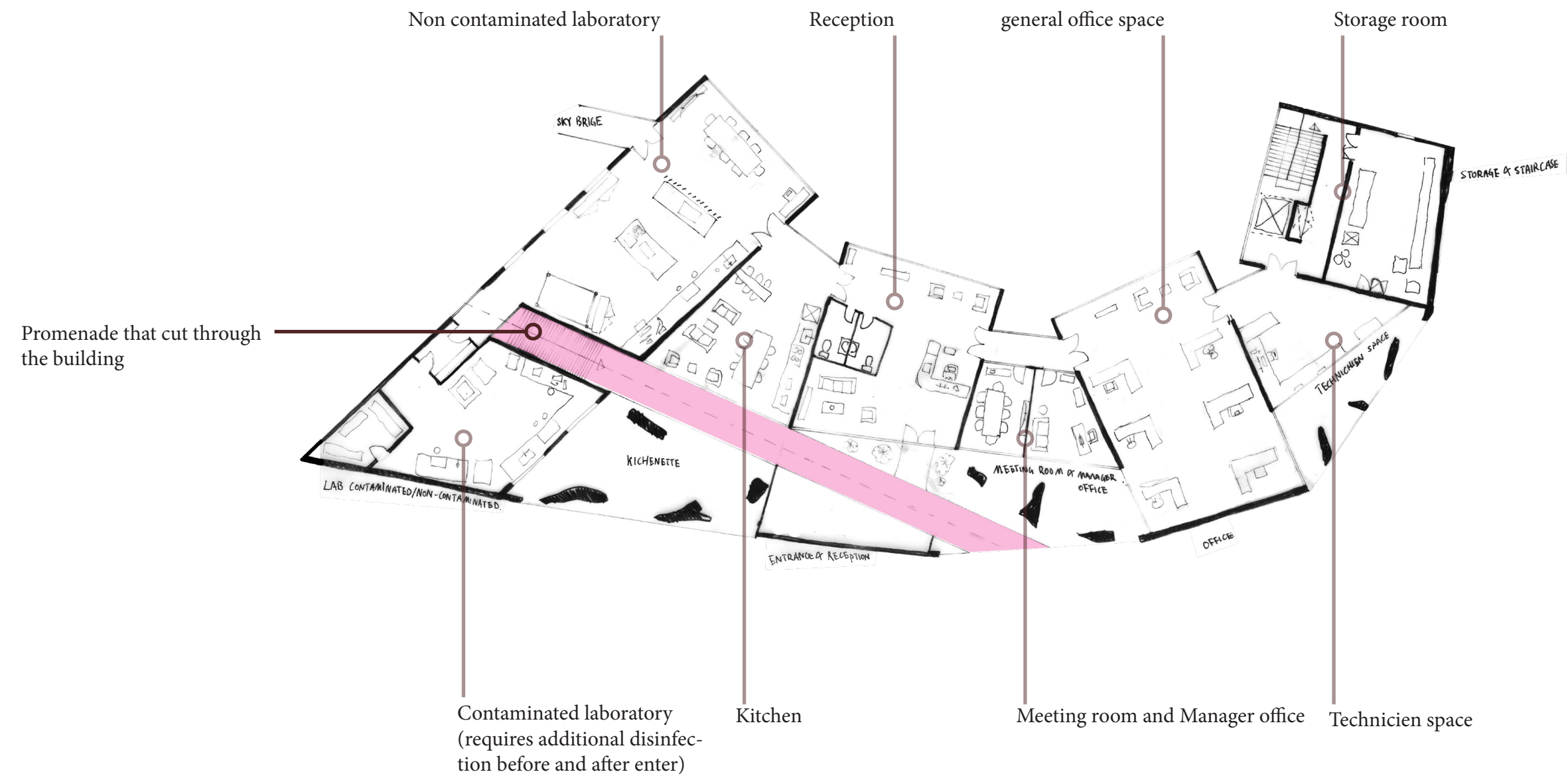
Hint: Upper floor/Lower floor



ITERATION 1 ELEVATION FROM THE STREET



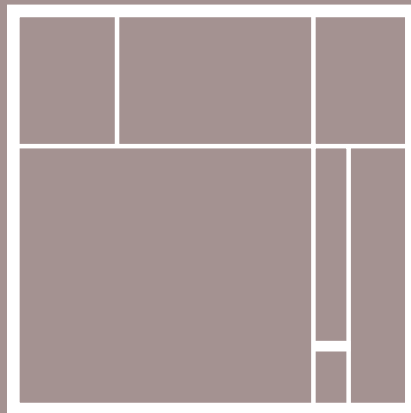
REGIONAL PLAN:FIRST FLOOR



REGIONAL PLAN:SECOND DESIGN



CHAPTER 3: SECOND ITERATION

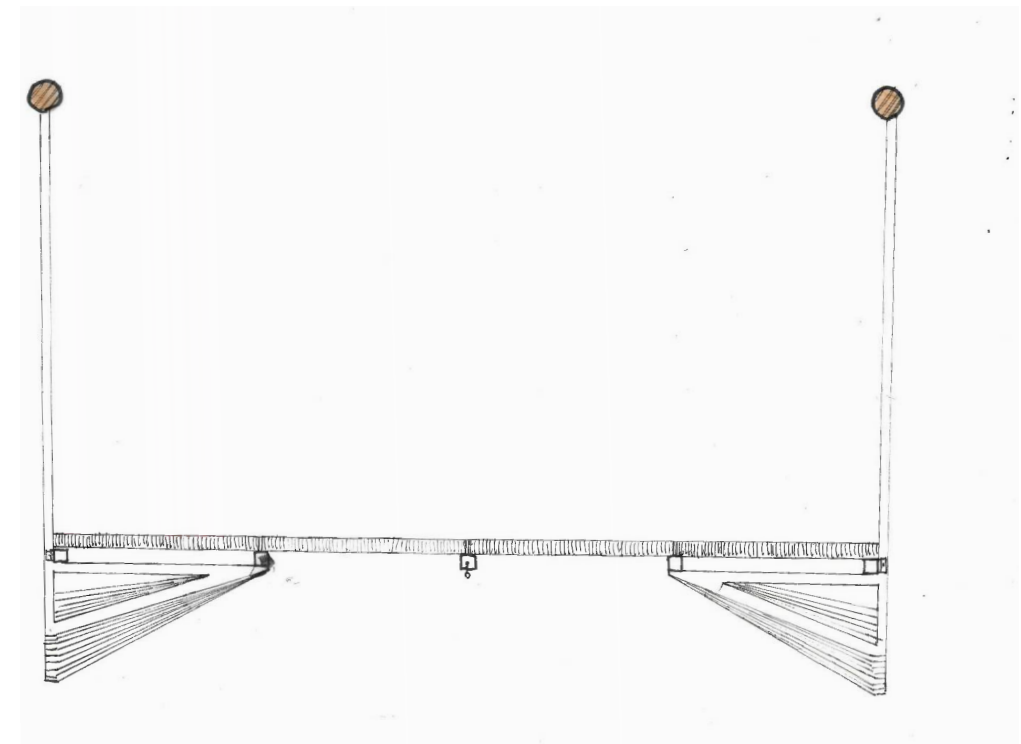
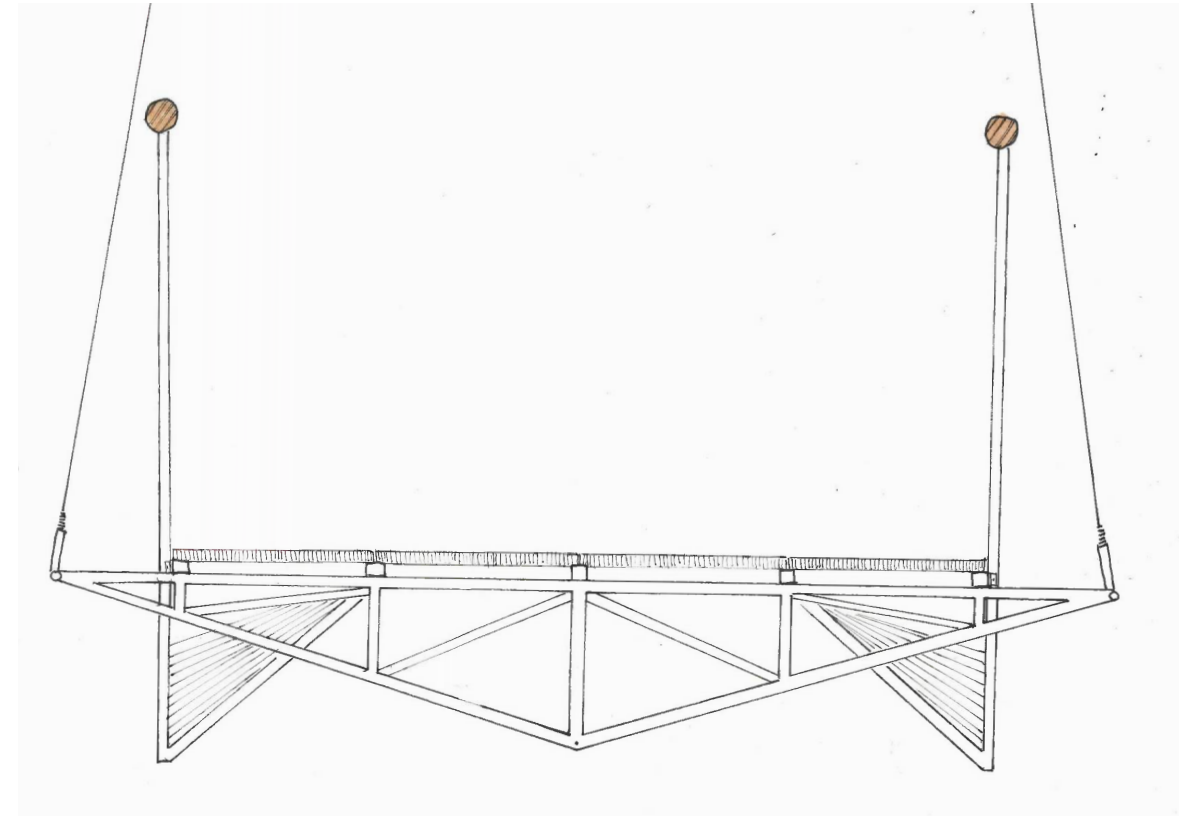


PROMENADE DESIGN

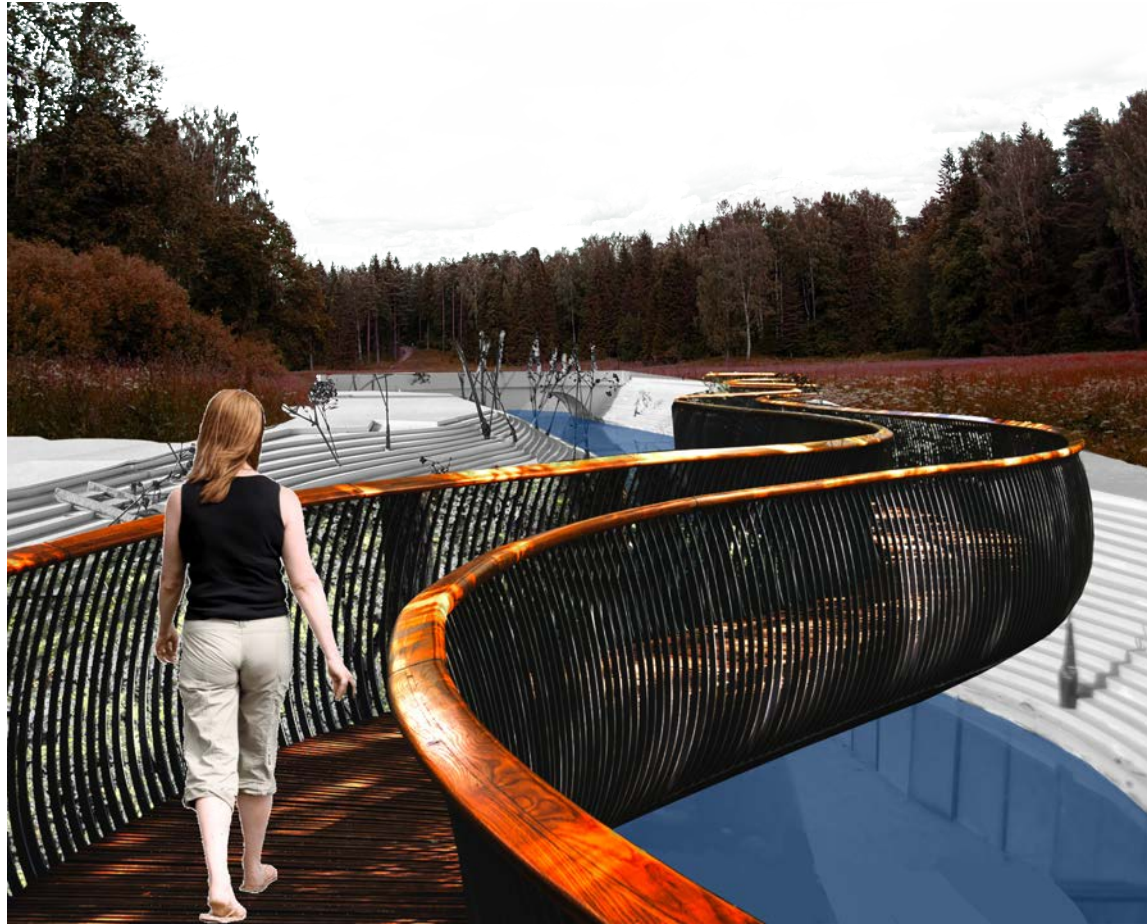


Changchun Culture of Water Ecology Park / W&R GROUP

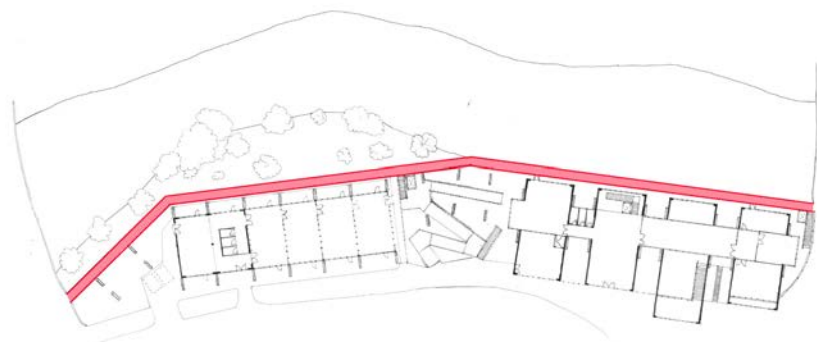
The structure of my design evolved from iterations of the promenade in Changchun culture of water Ecology park, instead of being supported by colonnades I took an opposite approach, as the promenade is suspended by columns and proclaiming the non-ground touching, zero interference with local nature principle.



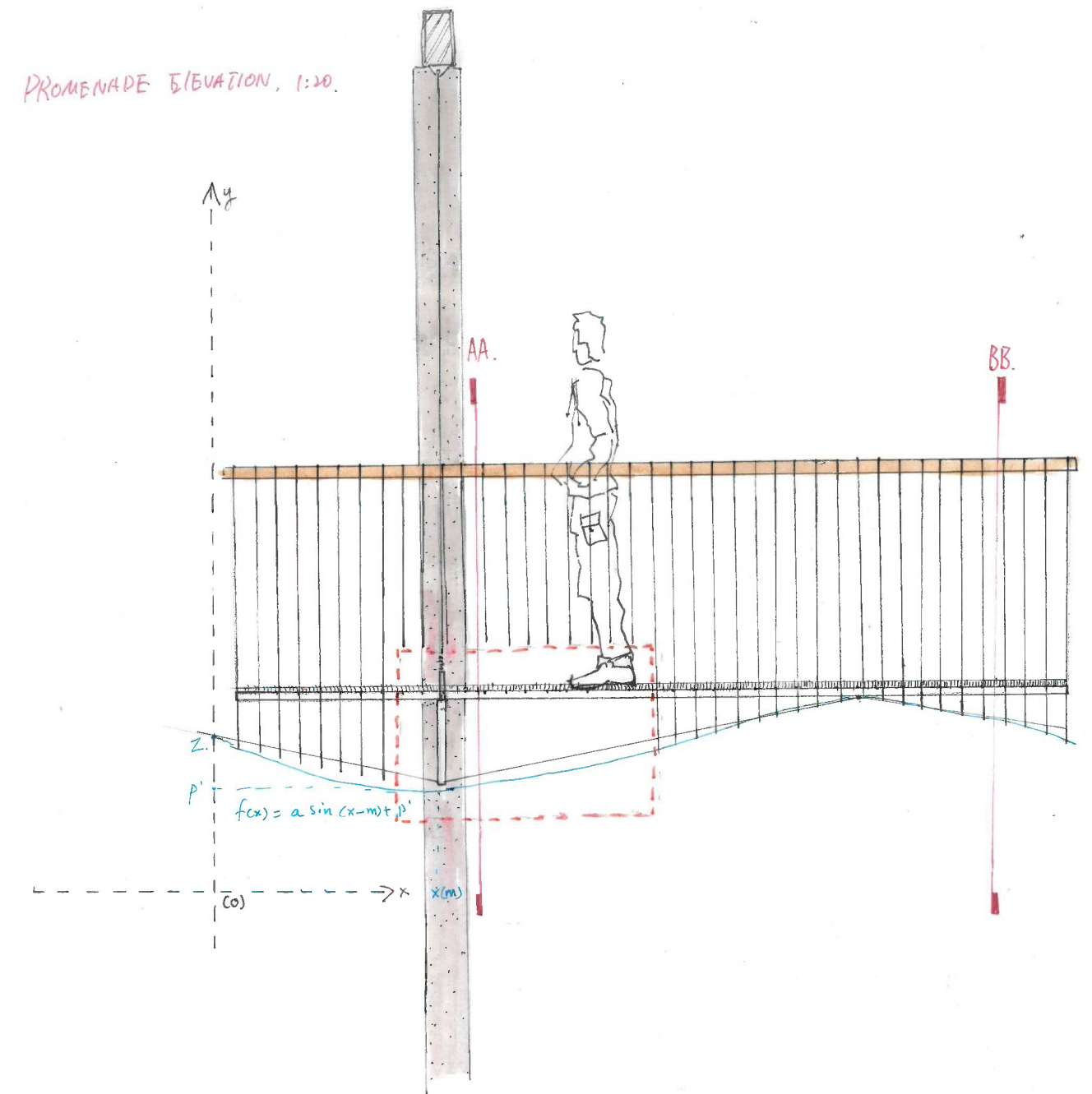
DANCE WITH NATURE



The Story of Gardening Museum/ Stonewood Design



Proposed location of promenade.

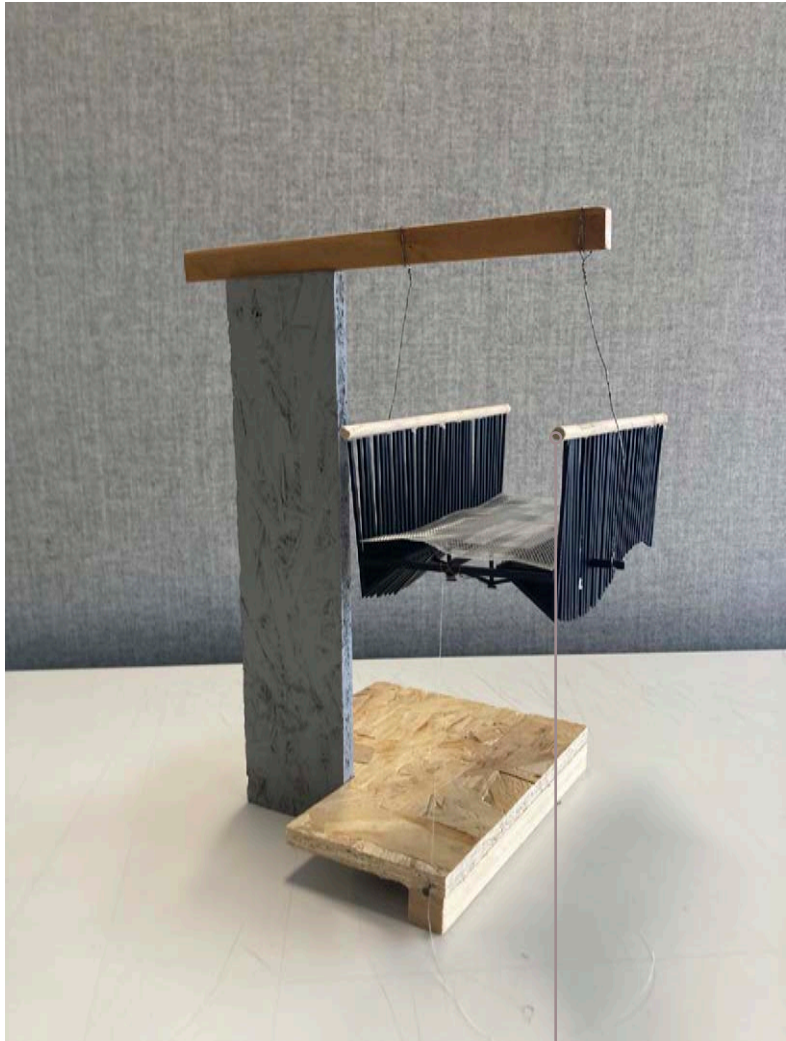


Curveliner geometry formed by the railings is inspired by the promenade from the story of gardening museum in the UK, the growth of the path adopted to the local trees. the wavy shape of the bottom of the promenade effectively hides the structural system, as well as coinciding with mathematical formula $y = \sin x$, rhyme with the pressence of sacredness in nature.

FINAL PROMENADE DESIGN



Steel railing



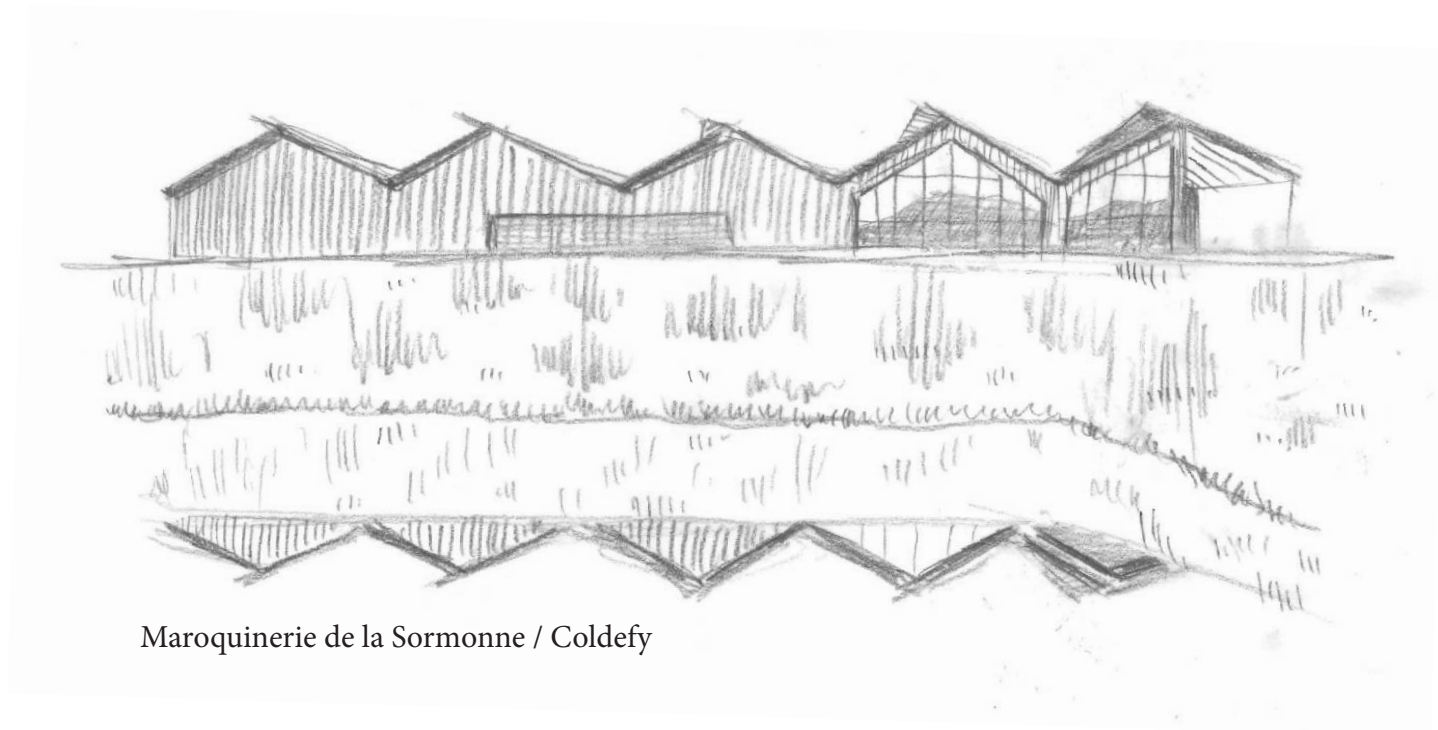
Wood handle



1:20 PHYSICAL MODEL



PRECEDENT_MATERIAL_STRUCTURE

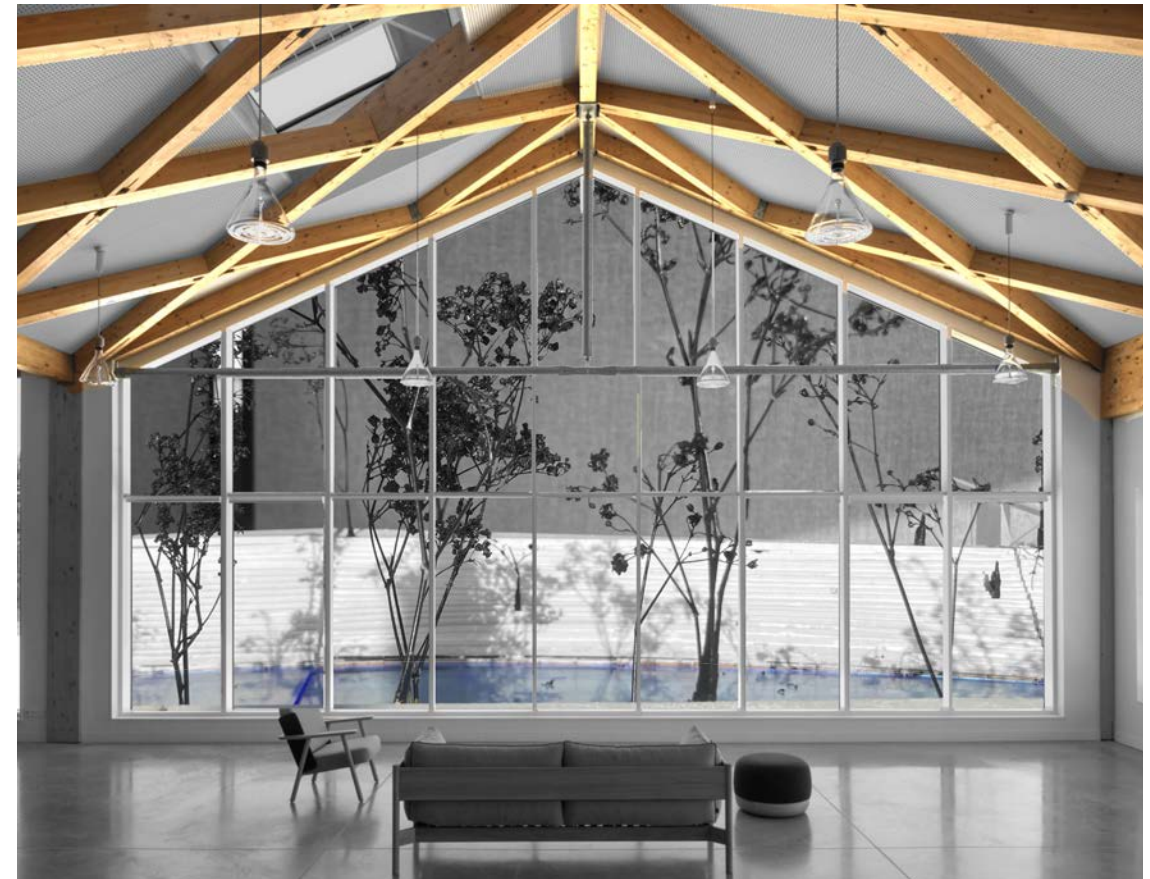


Maroquinerie de la Sormonne / Coldefy

The building of Hermès workshop in France built in its simple house style, comprise 5,700 sqm, providing spatias working area.

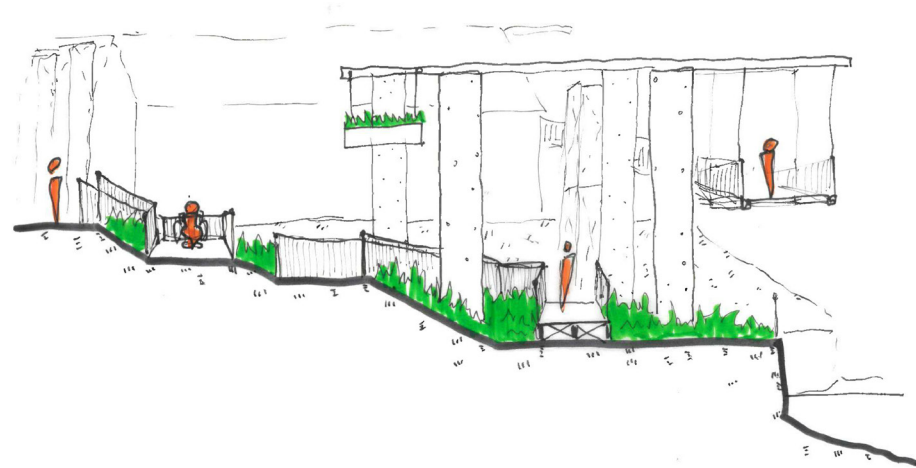
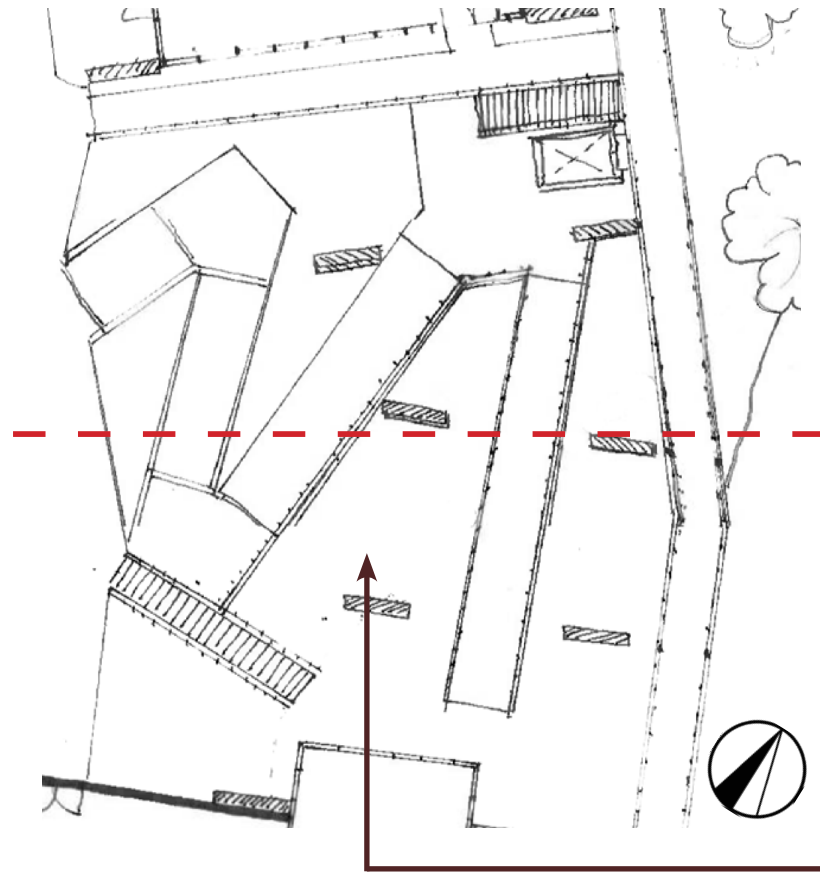
The building is cladded in burnt wood making the envelope waterproof and fire proof, improve chemical resistance such as weak and acids.

Inside the “diagrid” timber frame symbolise the subtle domestic atomsphere, providing comfortable environment for the staff



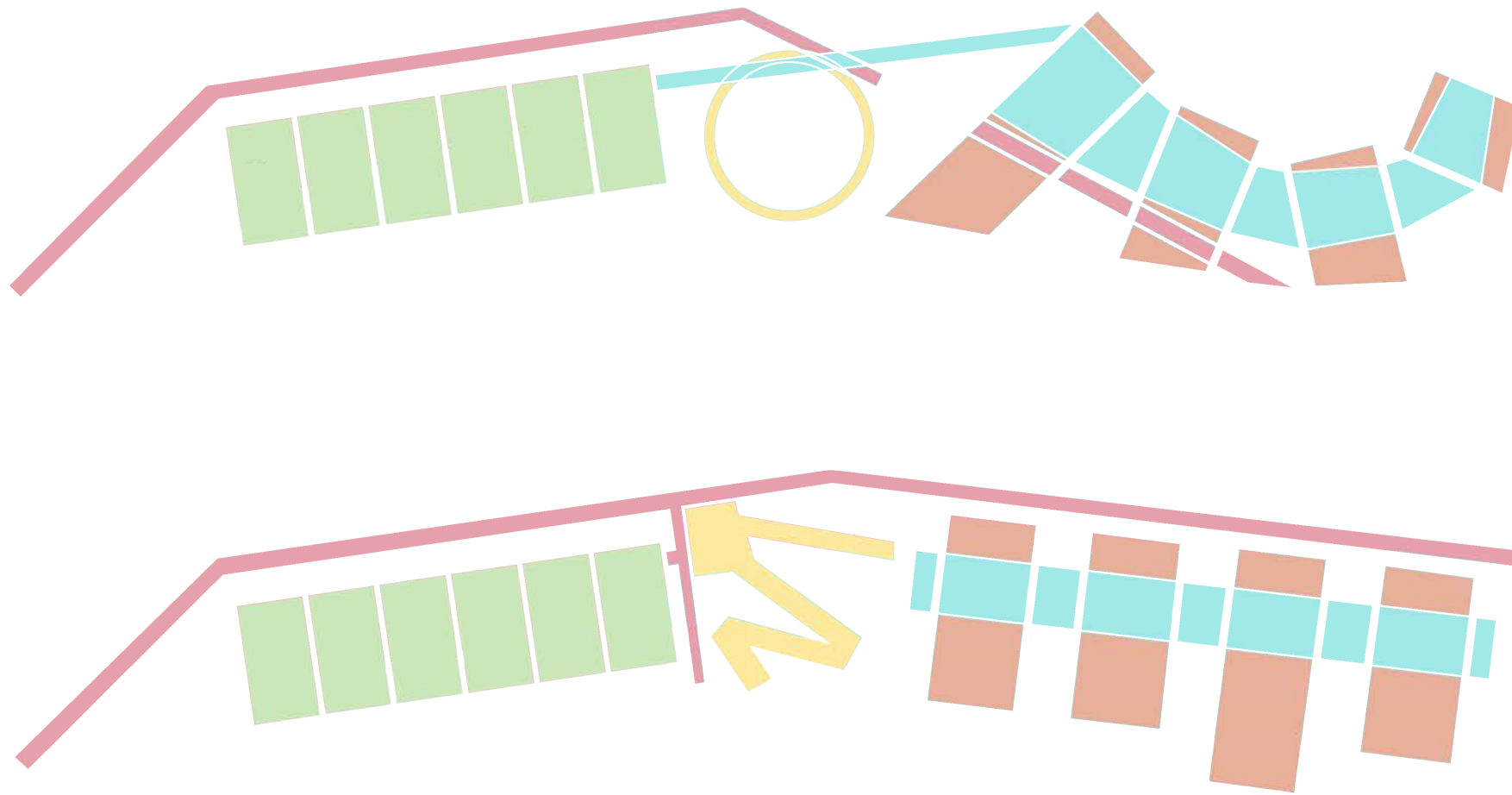
The “diagrid” timber support the roof system.

RAMP DESIGN



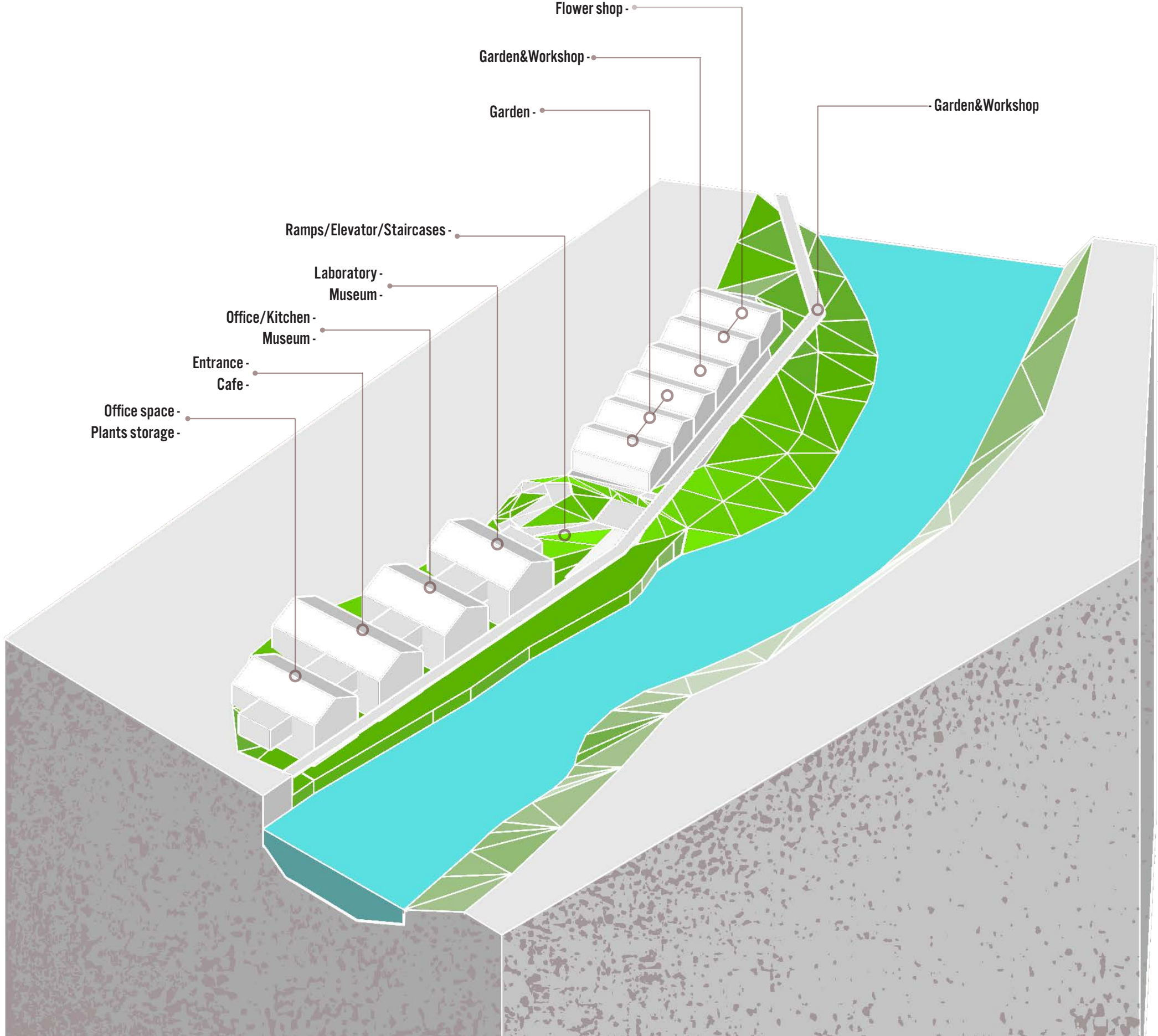
A circular ramp has been chosen for the first iteration to reinforce the disorder elements in the design, in the second iteration to comply with the general straight and formal design geometry and principles, a Zig-Zag staircase is chosen for the design.

SHUFFLING

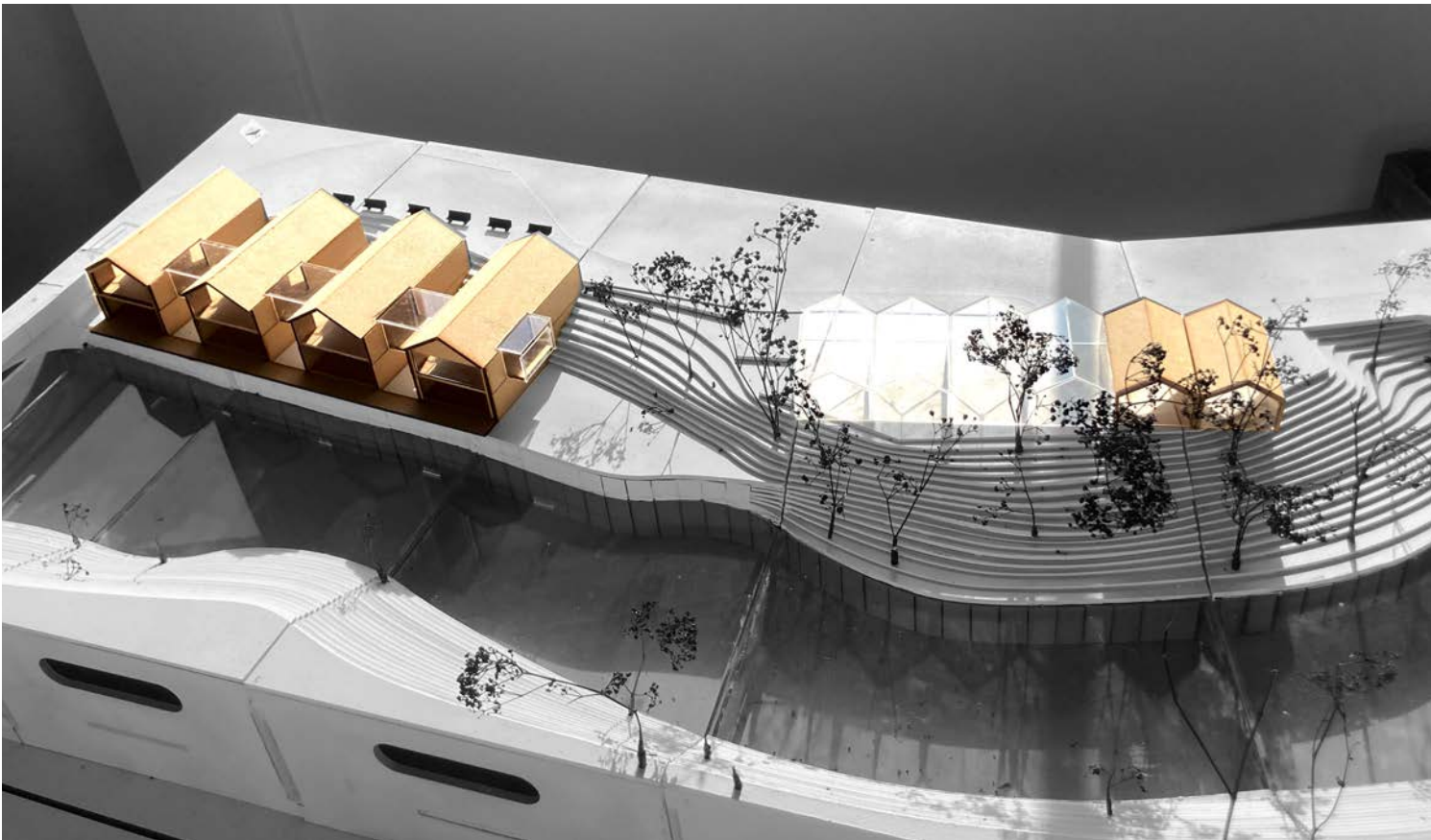
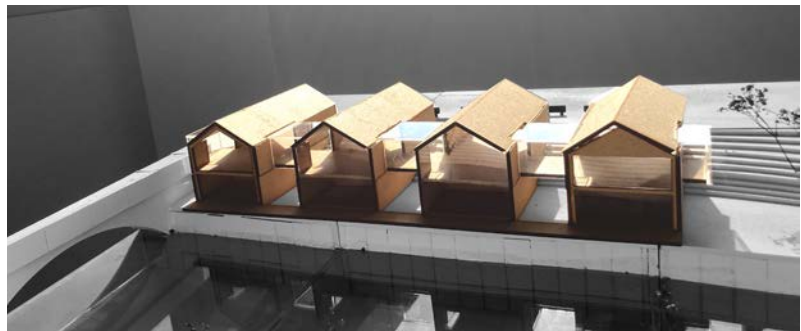


The geometrical form of functional space has changed from disorder to ordered, reducing construction difficulty and introduce social harmony and formality to the site. The original idea of sky bridge is merged with the hallway, as the skybridge act as a hallway that sits on the sky.

FINAL RESOLUTION: ISOMETRIC DIAGRAM



FINAL RESOLUTION:MASTER MODEL1:100



1:100 PHYSICAL MODEL

FINAL RESOLUTION:MASTER PLAN-FIRST FLOOR

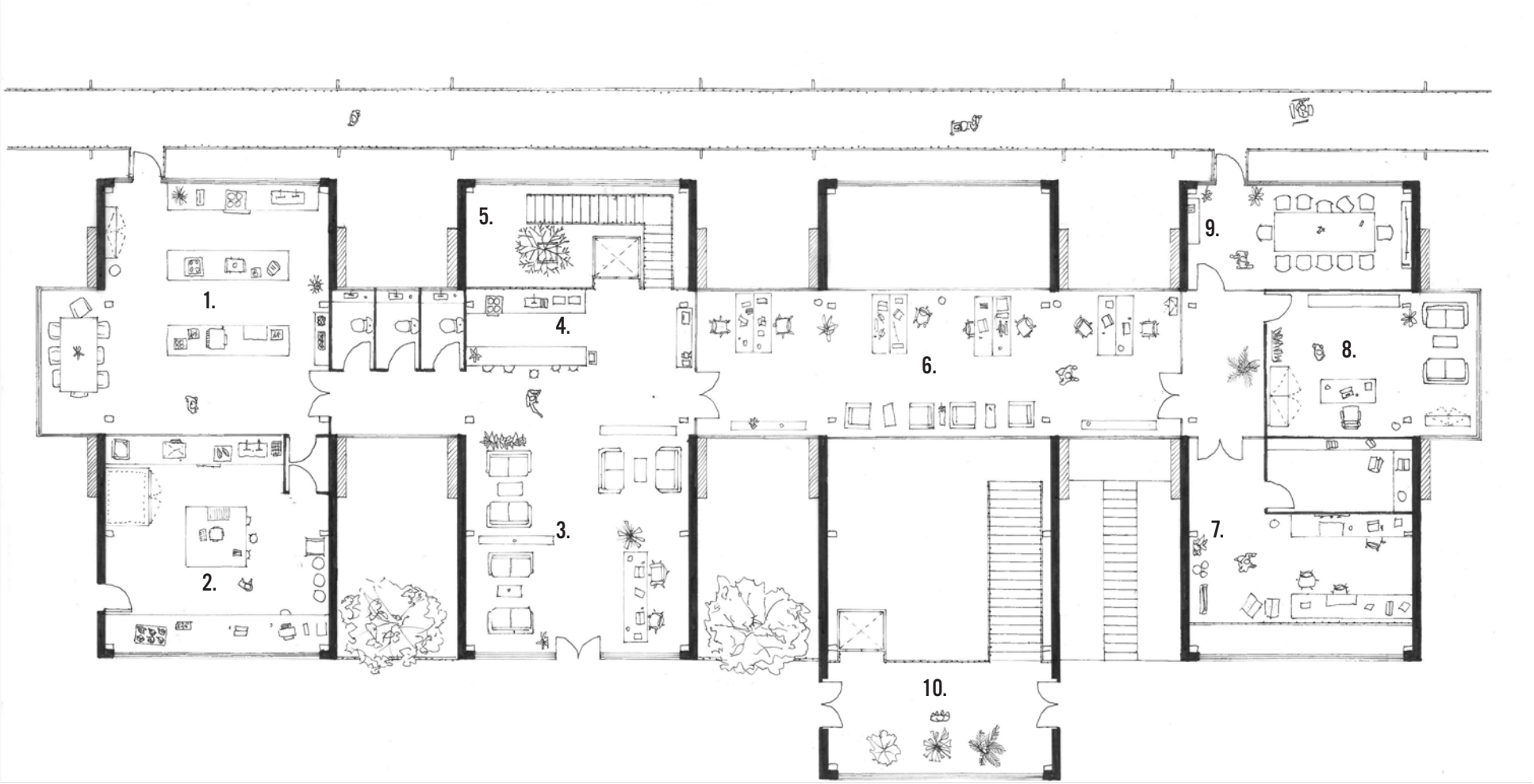


FINAL RESOLUTION:ELEVATION

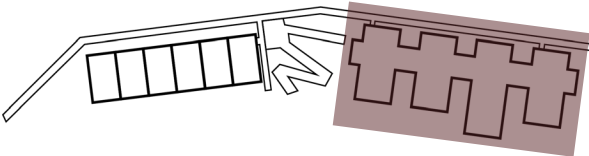


10m 20m

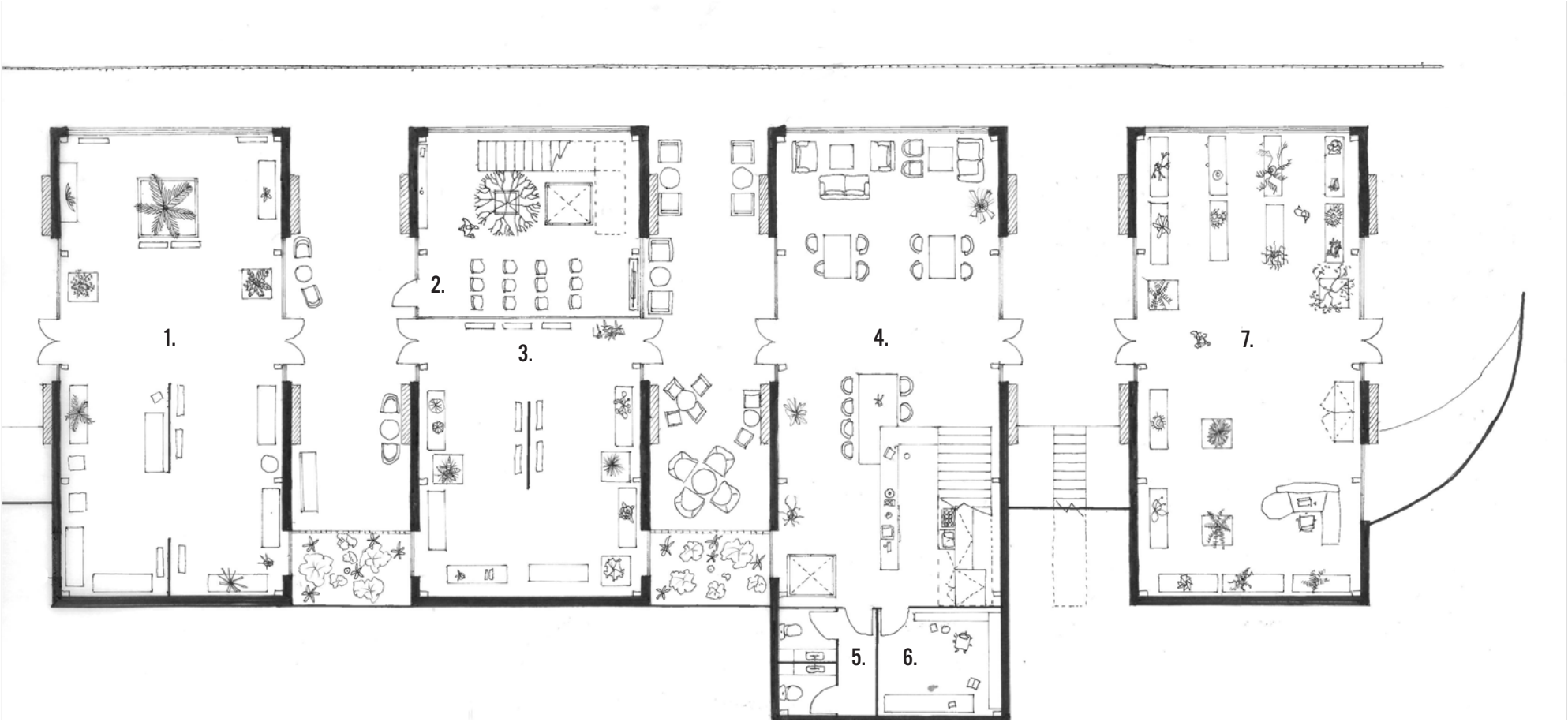
FINAL RESOLUTION:1ST FLOOR PLAN



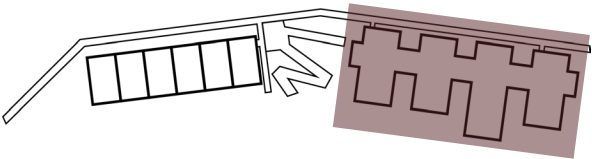
- 1: Ordinary laboratory
- 2: Contaminated laboratory
- 3: Office reception
- 4: Kitchen
- 5: Altrium/accesable to lower floor
- 6: Office space
- 7: Technicien space
- 8: Manager room
- 9: Meeting room
- 10: Entrance to the cafe



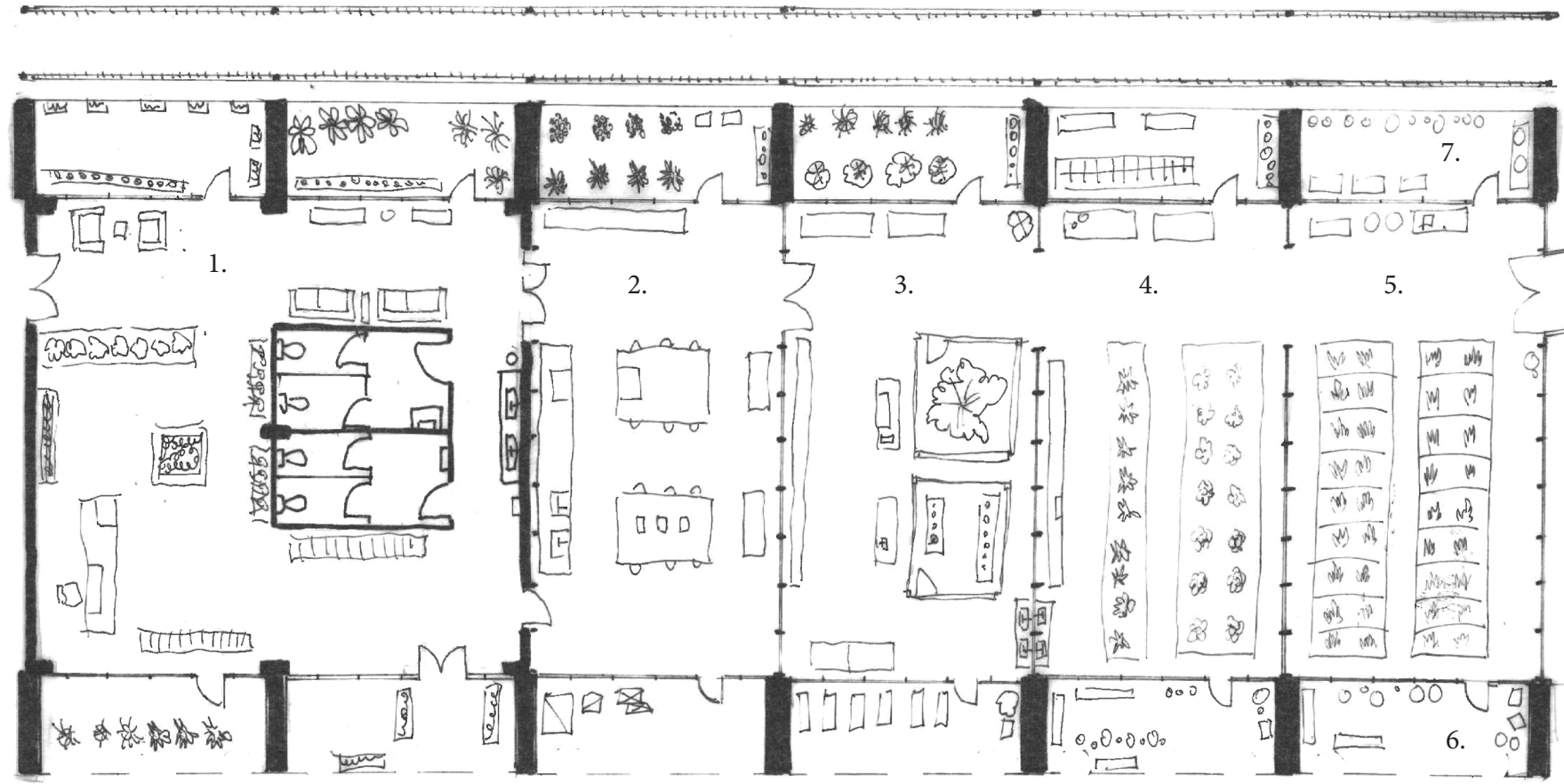
FINAL RESOLUTION:GROUND FLOOR PLAN



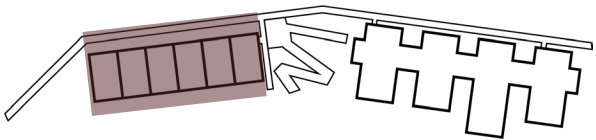
- 1: Museum
- 2: Presentation space of the office
- 3: Museum
- 4: Cafe
- 5: Toilet
- 6: storage room of cafe
- 7: Plant sitting space



FINAL RESOLUTION:GARDEN PLAN

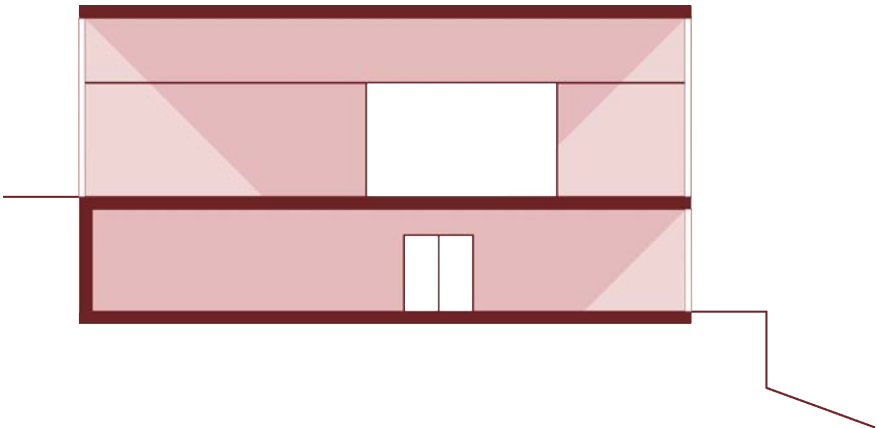


- 1: Flower shop
- 2: Flowercraft workshop
- 3: Indoor arden with thermostat chamber
- 4: Indoor garden/greenhouse
- 5: Indoor garden/greenhouse
- 6: Front door platform
- 7: Back door platform

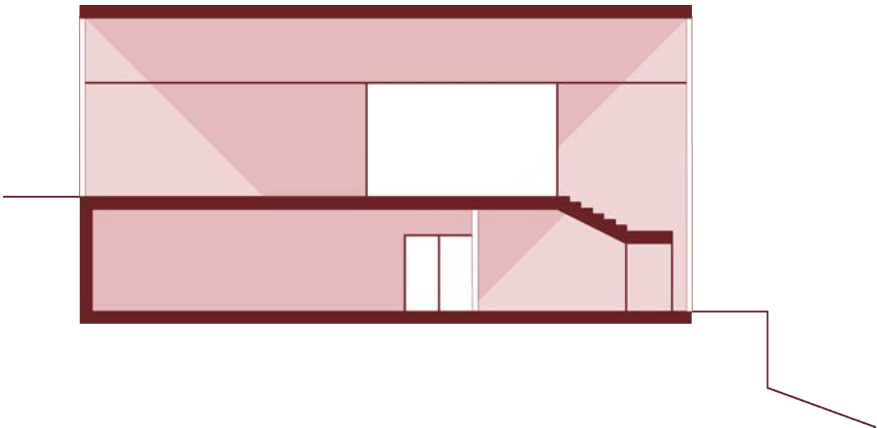


FINAL RESOLUTION:SECTIONS

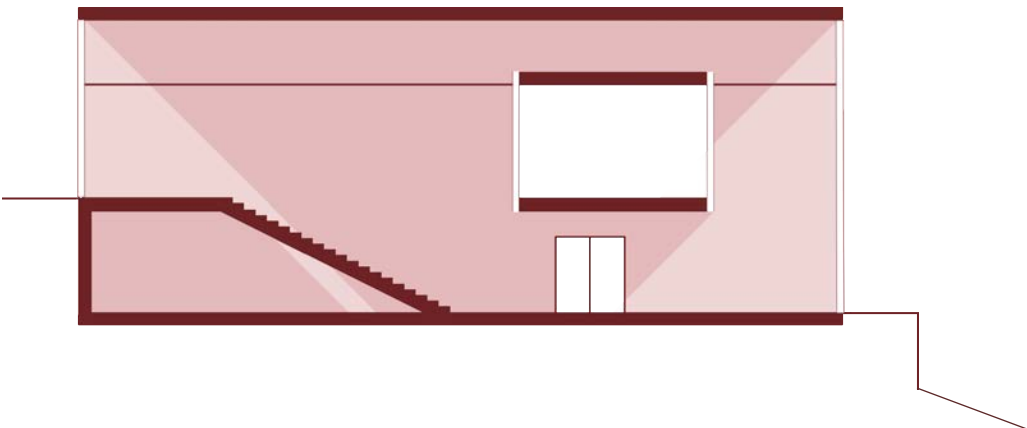
A.



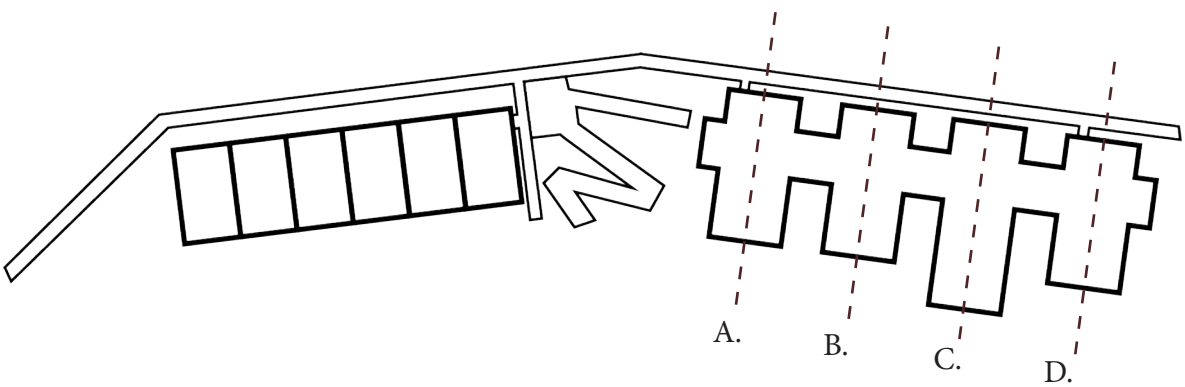
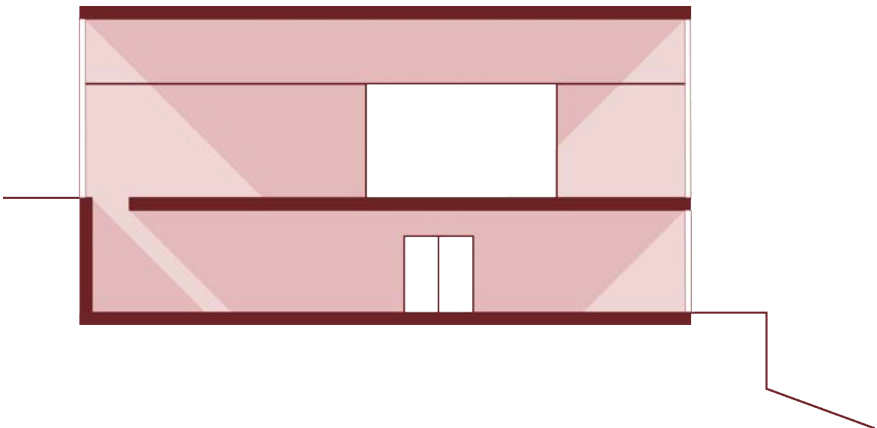
B.



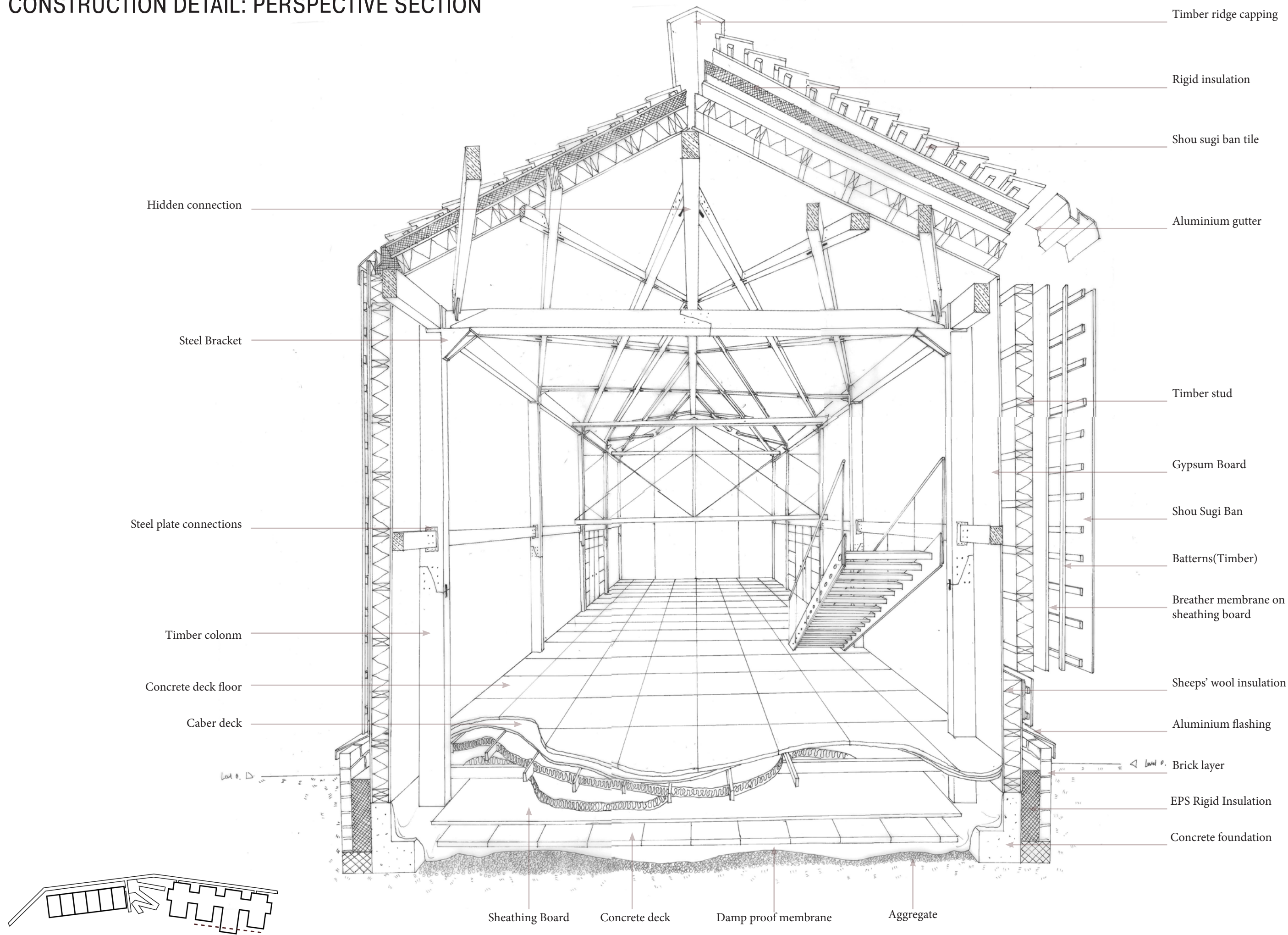
C.



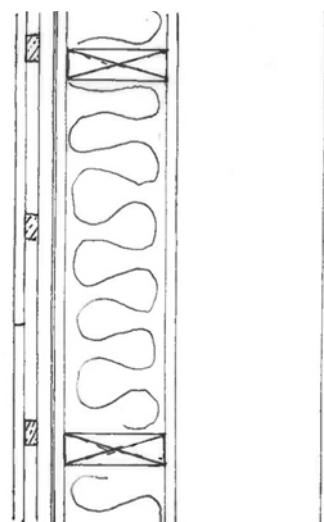
D.



CONSTRUCTION DETAIL: PERSPECTIVE SECTION

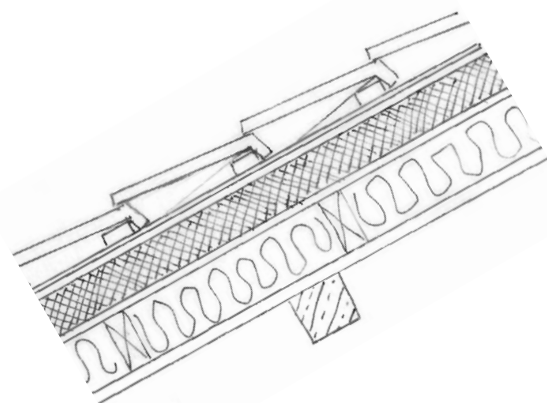


CONSTRUCTION DETAIL: ENVIRONMENTAL ACCESSMENT



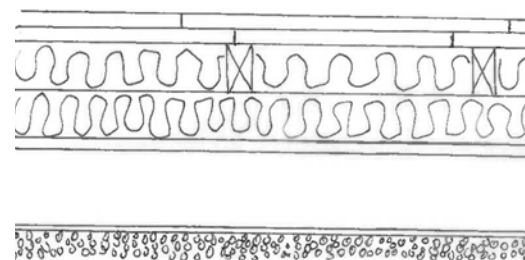
WALL

- 20mm Shou Sugi Ban (Burt Cladding)
- Two 25mm x 38mm timber battens
- 0.4mm Breather membrane
- 10mm sheathing board
- 200mm sheep's wool insulation (with two 100mm x 50mm timber studs)
- 280mm x 180mm timber column.



ROOF

- 23mm shou sugi ban tile
- 25mm x 20mm roof timber battens
- 0.4mm Breather membrane
- 10mm sheathing board
- 100mm EPS Rigid Insulation
- 10mm sheathing board
- 100mm sheep's wool insulation
- 10mm gypsum board
- 120mm x 120mm cross timber beam



GROUND

- 15mm concrete deck
- 18mm cinder deck
- 200mm sheep's wool insulation
- 10mm sheathing board
- 150mm air gap
- 20mm concrete deck
- 0.25mm DPM
- Aggregate

$$U - Value = \frac{\lambda_g}{0.457B + d} \quad (\text{m}^2\text{k/W}) \quad \text{ONLY APPLICABLE FOR GROUND.}$$

$$U - Value = \frac{1}{R_{so} + R_{si} + \sum R_n} \quad (\text{m}^2\text{k/W}) \quad \text{FOR WALLS AND ROOF.}$$

λ_g = Thermal conductivity of unfrozen ground (taken as 2.0 m²k/W in the UK)

$$B = \frac{2A}{P} \quad R_{sa} + R_{se} + \sum R_n$$

w = thickness of the wall around

P = parameter

A = Area

R_{so} = 0.04 W/mk

R_{si} = 0.013 W/mk

R_{sa} = 0.17 W/mk

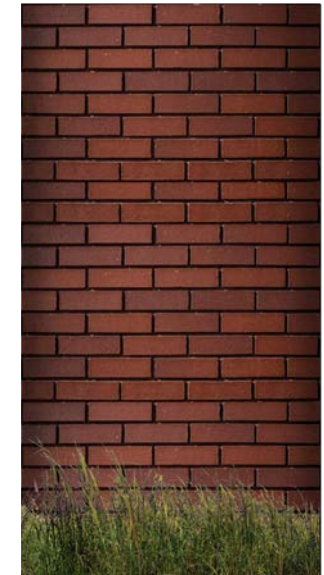
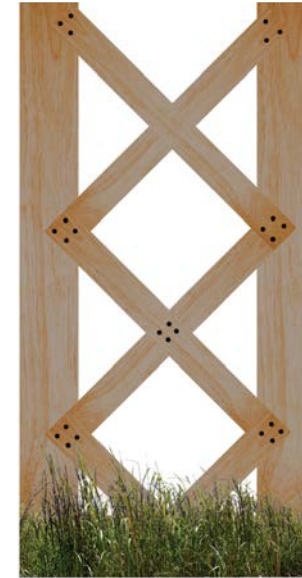
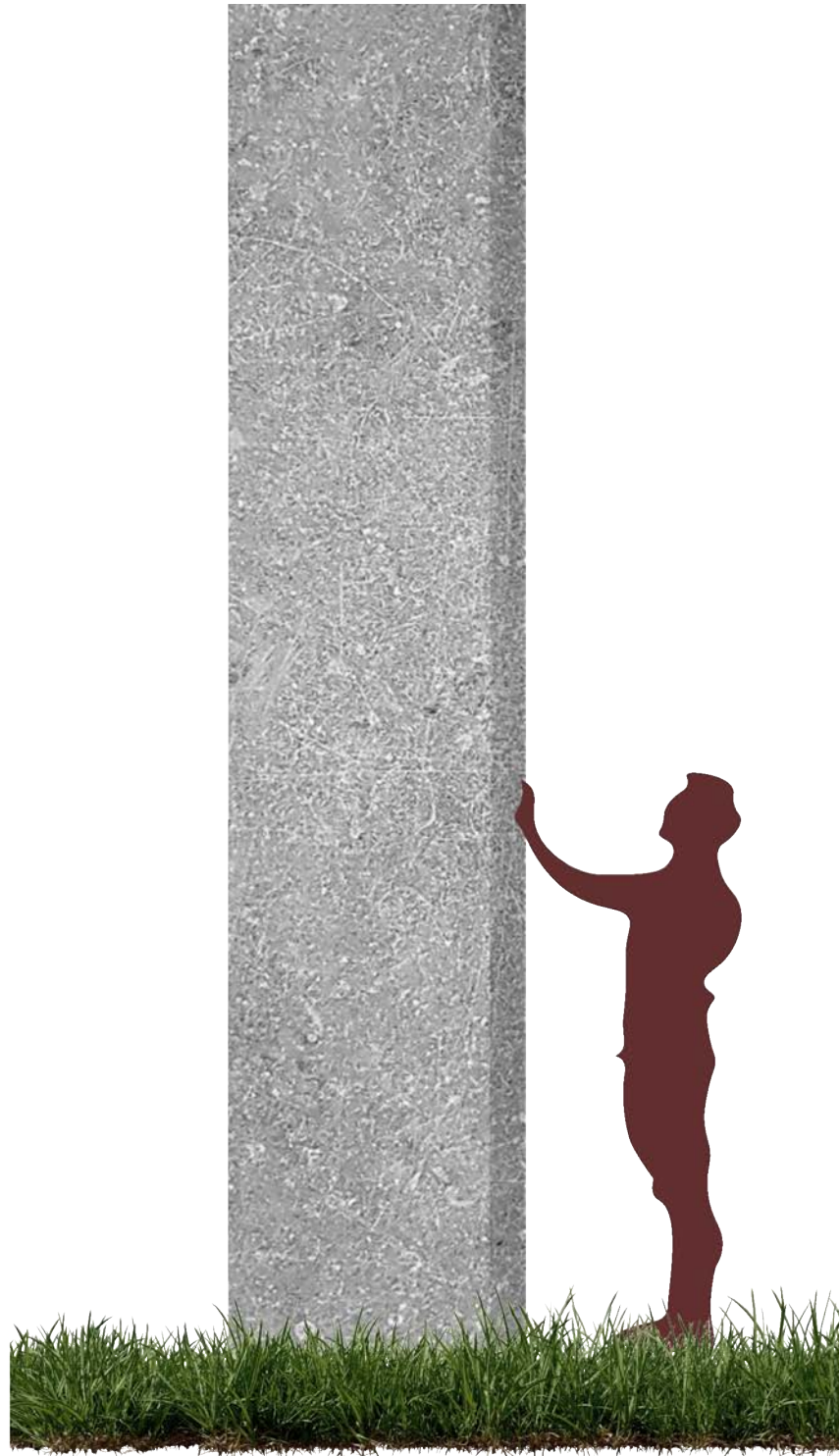
R_{se} = 0.04 W/mk

UK insulation regulation based on document L:

External walls including semi-exposed walls	U = 0.18 W/(m ² ·K)
Party walls	U = 0
Floors	U = 0.13 W/(m ² ·K)
Roofs	U = 0.11 W/(m ² ·K)

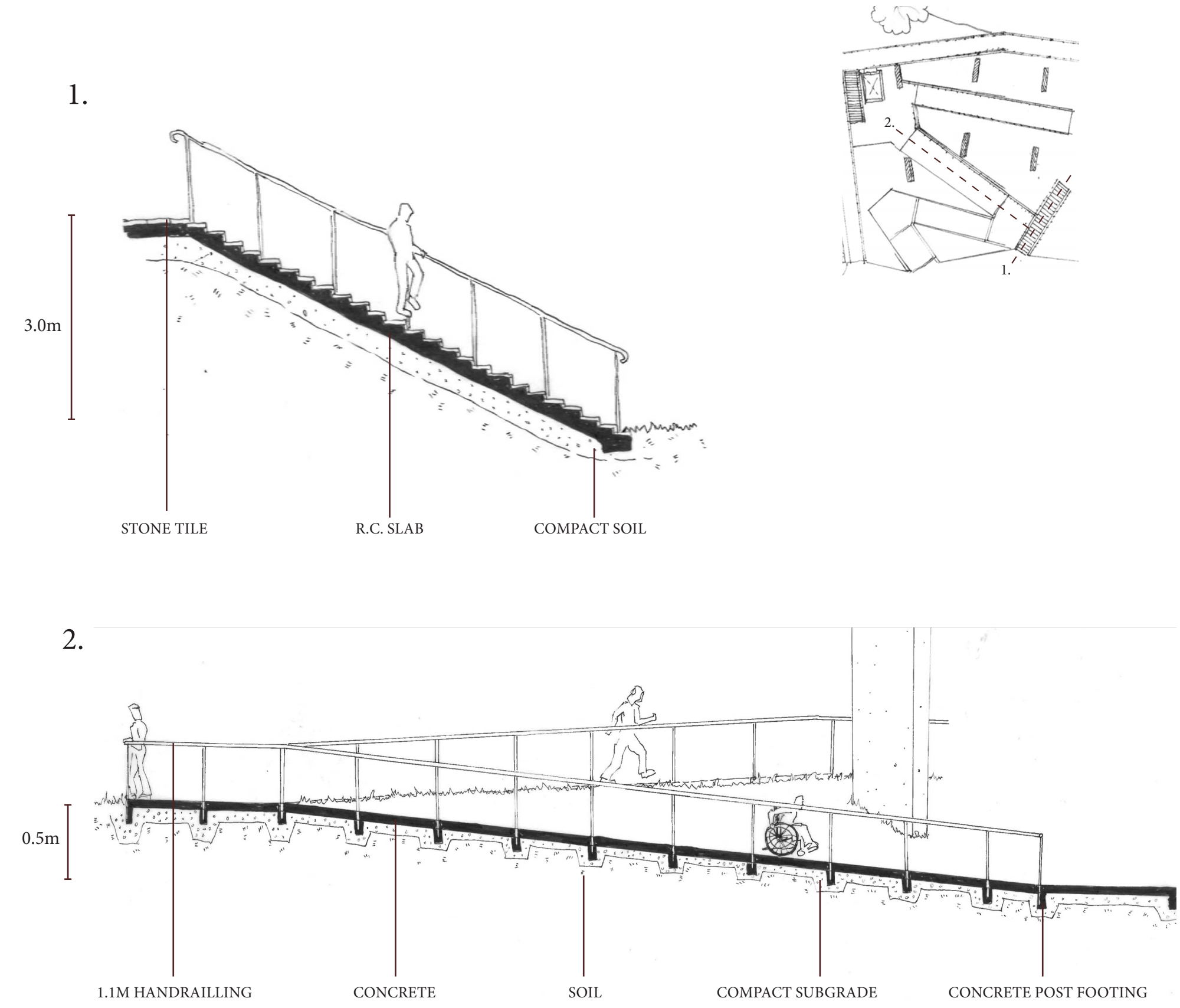
After series of calculation, the U-value of wall, roof and floor in my design representatly are: 0.108, 0.134, and 0.33 m²k/W (3dp), partially complying with the UK regulation, but i am certain i didn't do my ground floor calculation right, as more i dig into the detail i have realized it gets a lot more complicated and went beyond my area of knowledge.

MATERIAL CHOISE



There were alternative proposal for the material choices for the supporting colonms of the promenade, different materials present different visual effect and results on different psychologcla re-sponse, however the quality of concrete serves the best to illustrate the contrast between sustainable and unsustainable.

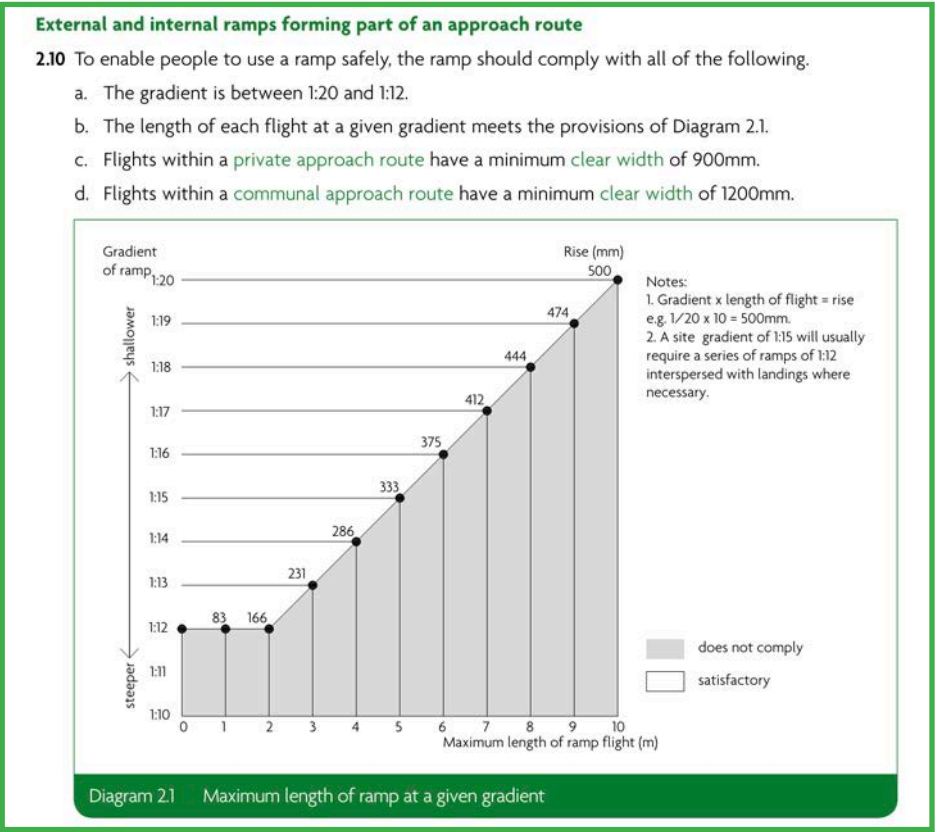
REGULATION: ACCESSABILITY



External steps forming part of an additional route

2.11 To enable a wide range of people to use steps safely, a stepped approach should comply with all of the following.

- a. Steps are uniform with a rise of between 150mm and 170mm and a going of between 280mm and 425mm (for tapered steps measured at a point 270mm from the 'inside' (narrow end) of the step).
- b. Steps have suitable tread nosings.
- c. No individual flight has a rise between landings of more than 1800mm.
- d. Every flight has a minimum clear width of 900mm.
- e. Top and bottom and, where necessary, intermediate landings are provided and every landing has a minimum length of 900mm.
- f. Every flight with three or more risers has a suitable grippable handrail to one side, (or to both sides where the flight is wider than 1000mm). This grippable handrail is 850-1000mm above the pitch line of the flight and extends a minimum of 300mm beyond the top and bottom nosings.

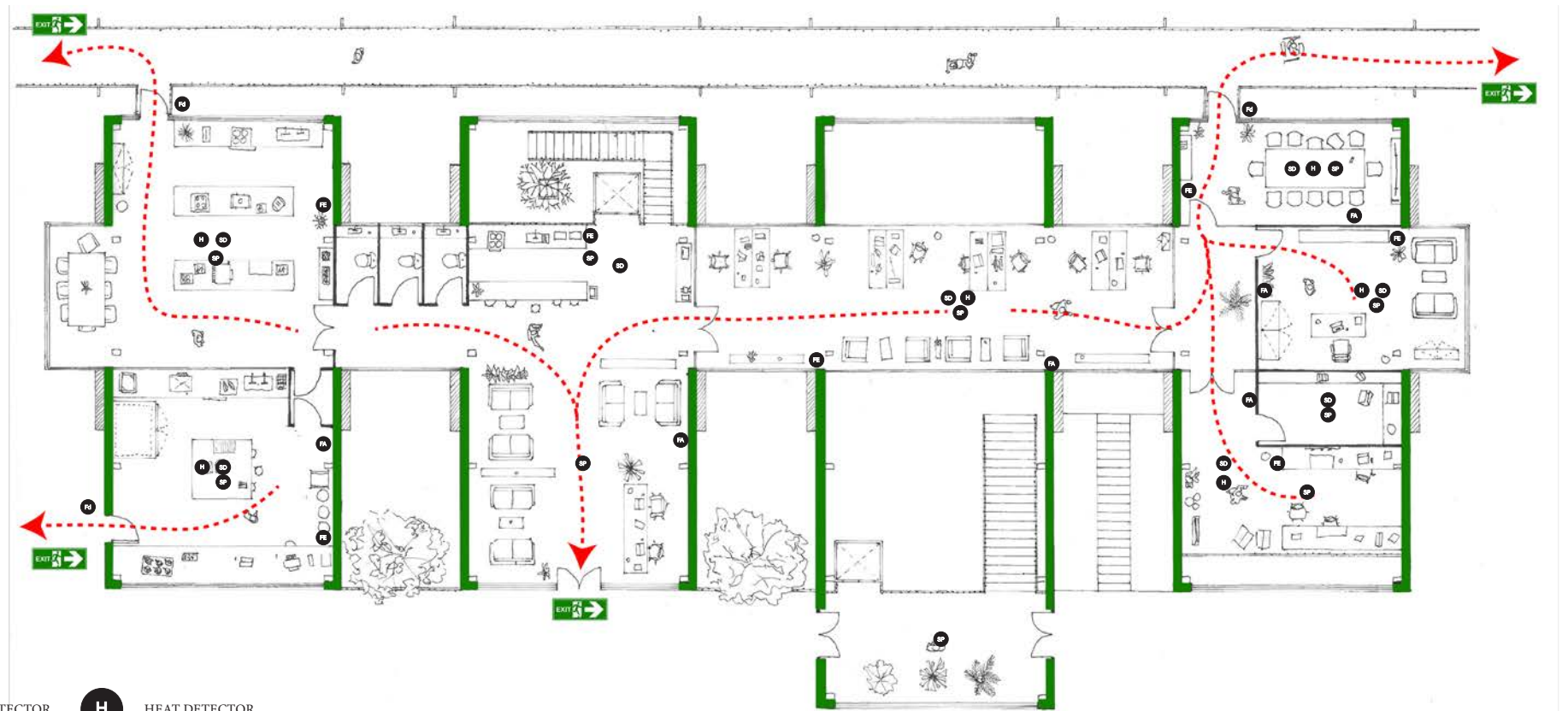
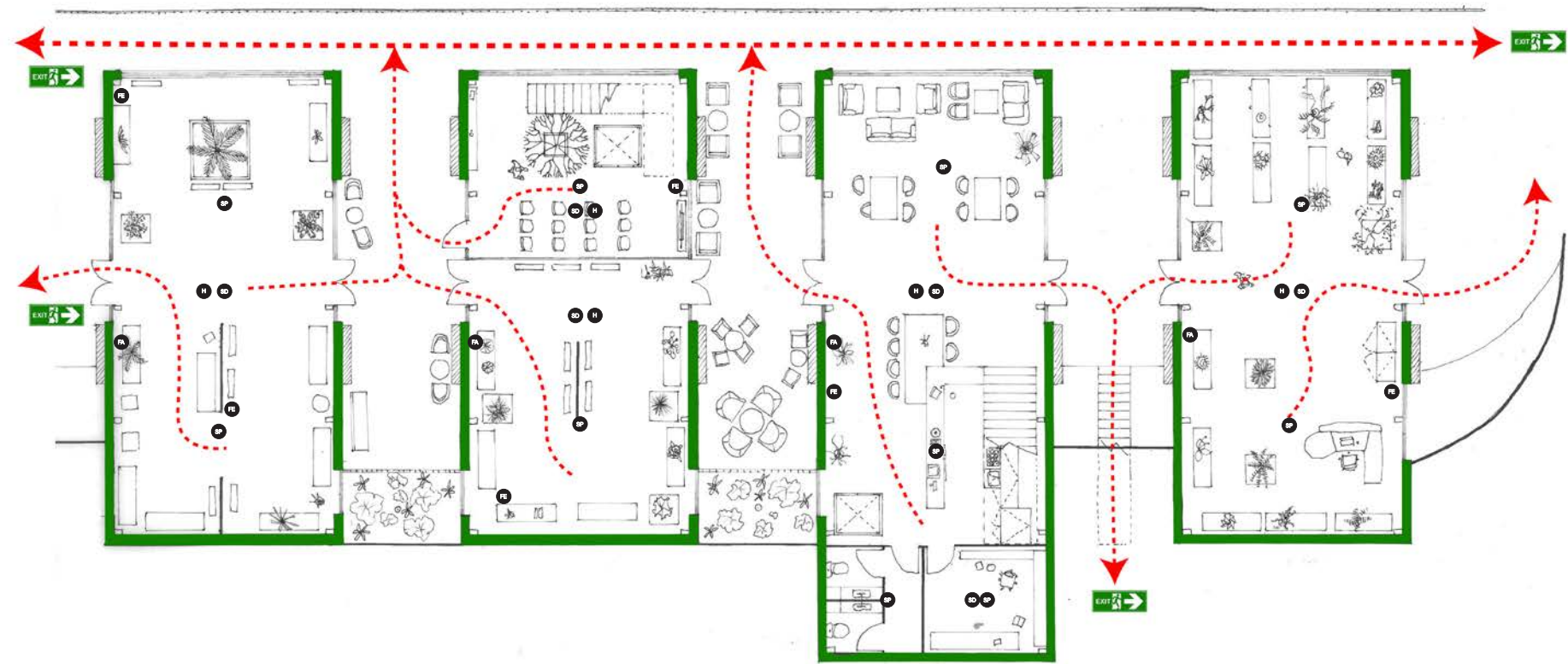


All the stairs and ramps are designed with necessary railings and dimension, according to the UK accesability regulation document L:

Stair: 3m high, 6m long, dimension of each stair: 15cm by 30 cm.

Ramp: 12:1 ratio, platform present at each end of the ramp.

REGULATION: FIRE SAFETY



- SD SMOKE DETECTOR
- H HEAT DETECTOR
- Fd FIRE DOOR
- SP SPRINKLER
- FA FIRE ALARM
- FE FIRE EXTINGUISHER
- EXIT FIRE EXIT
- ESCAPE ROUTE
- FIRE RESISTANT WALL

BUILDING REGULATIONS PART B

- 1.3 Other than for some small buildings/premises, an electrically operated fire alarm system should be provided. In some situations, the alarm should be operated by a fire detection system. The detailed specification should be compatible with the fire strategy for the building.
- 1.5 Automatic fire detection and alarm systems should be provided in non-residential occupancies where a fire could break out in an unoccupied part of the premises (e.g. a storage area or a part of the building that is not visited on a regular basis) and prejudice the means of escape from occupied part(s) of the premises.

Response: Alarm systems and detection system will be installed into the office.

BUILDING REGULATIONS PART M:

- B1, table 2.1: the regulation suggest a minimum 45 meters travel distance for offices with more than 2 direction of escape.

Response: Since the the design is open spaced, reject ideas of parti walls, alternative escape routes is needed to enable more flexible escape routes.

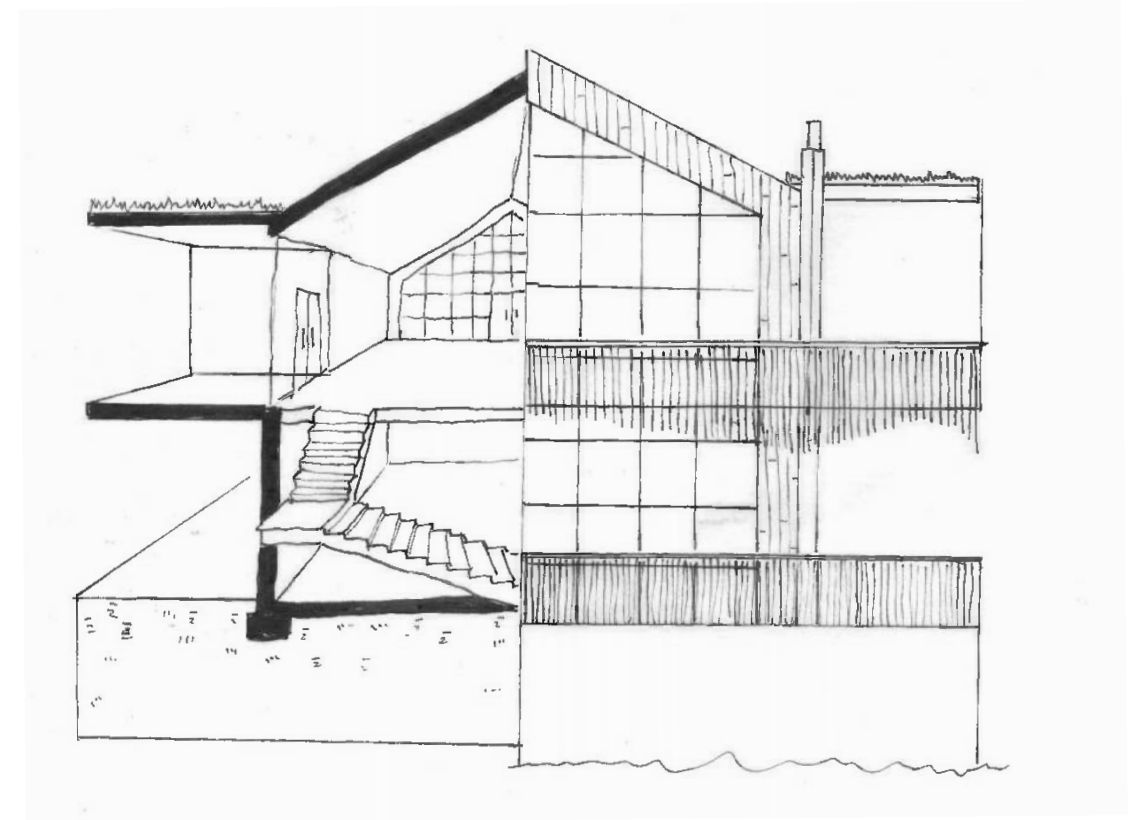
- 2.10 Alternative escape routes should satisfy one of the following criteria:
 - a. They are in directions 45 degrees or more apart
 - b. They are in directions less than 45 degrees apart, but separated from each other by fire resisting construction.

Response: Alternative escape route, is designed on the glass facade to diverted escape route direction.

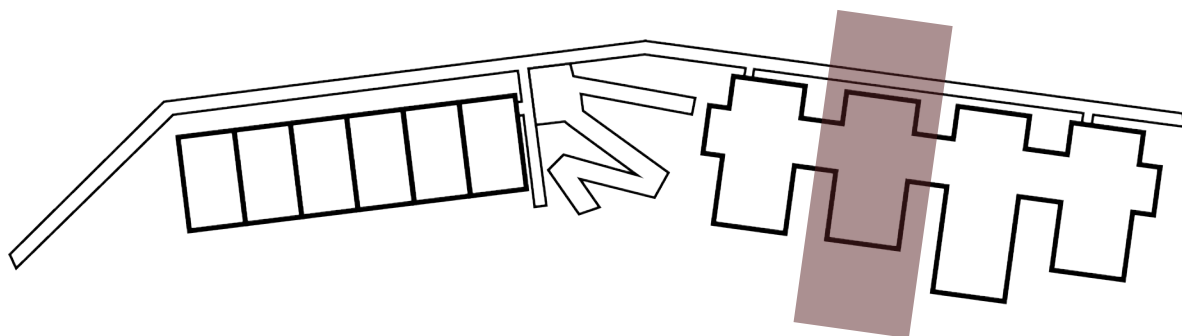
- 2.30 Where an External escape route is beside an external wall of the building, the external wall should be of fire resisting construction in both of the follwoing zones:
 - a. Withing 1800mm of escape route.
 - b. Up to 1100mm above the surface of the escape route.

Response: Triple glazing fire resistant is possible, thus complying with the regulation, also, since the cladding is burnt wood cladding, which further prevent potentian external fire spreading damage.

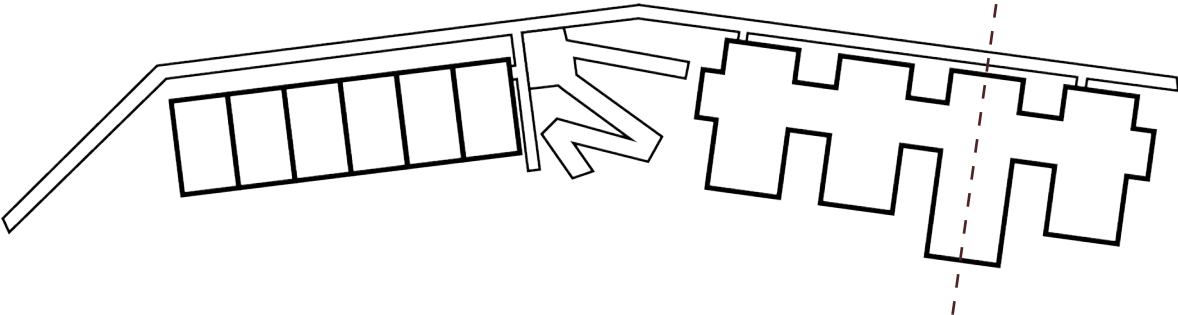
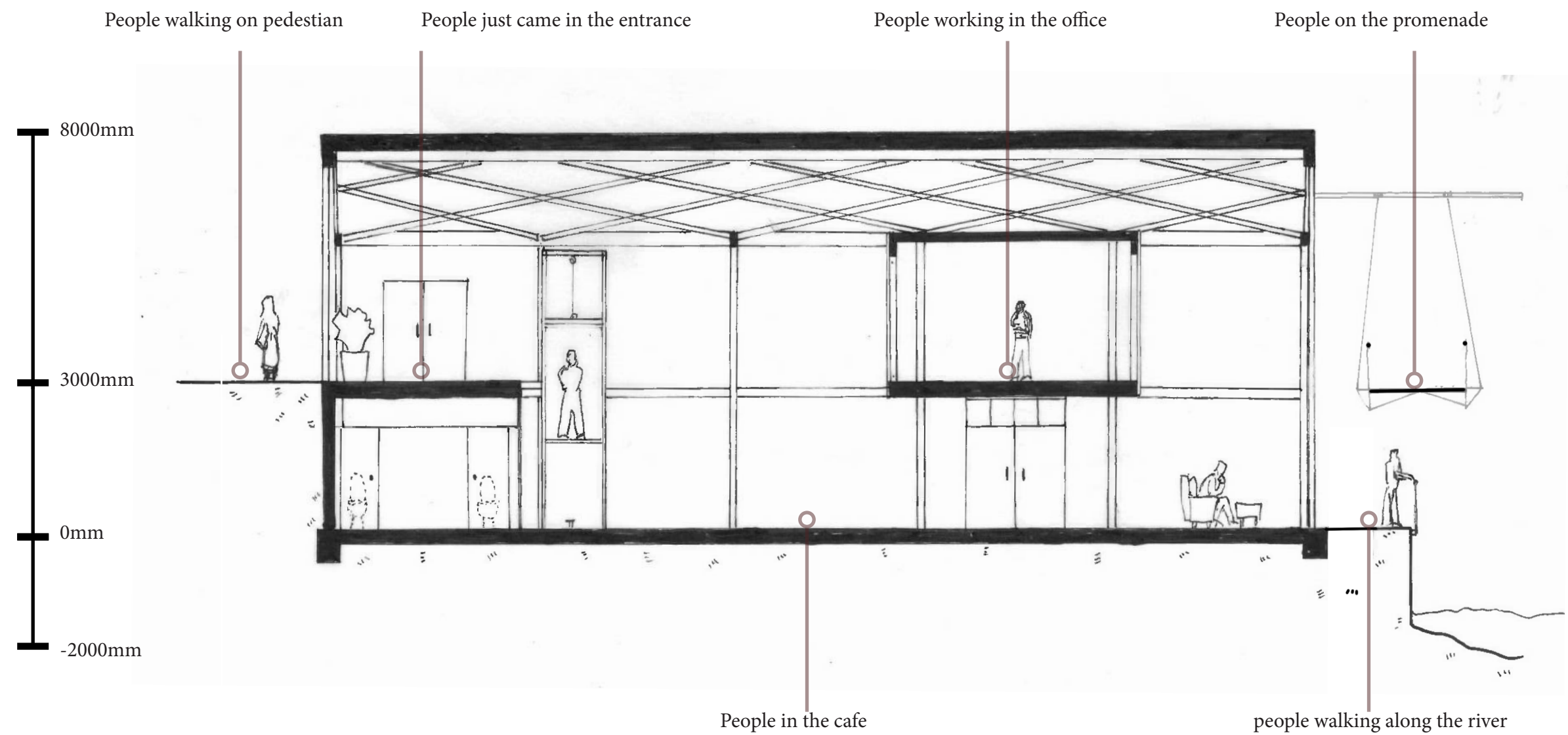
RESOLUTION: CREATIVE DRAWINGS



Here i present a drawing style mixed of both perspective and elevation, showing case the facade, and the interior spatial arrangements.

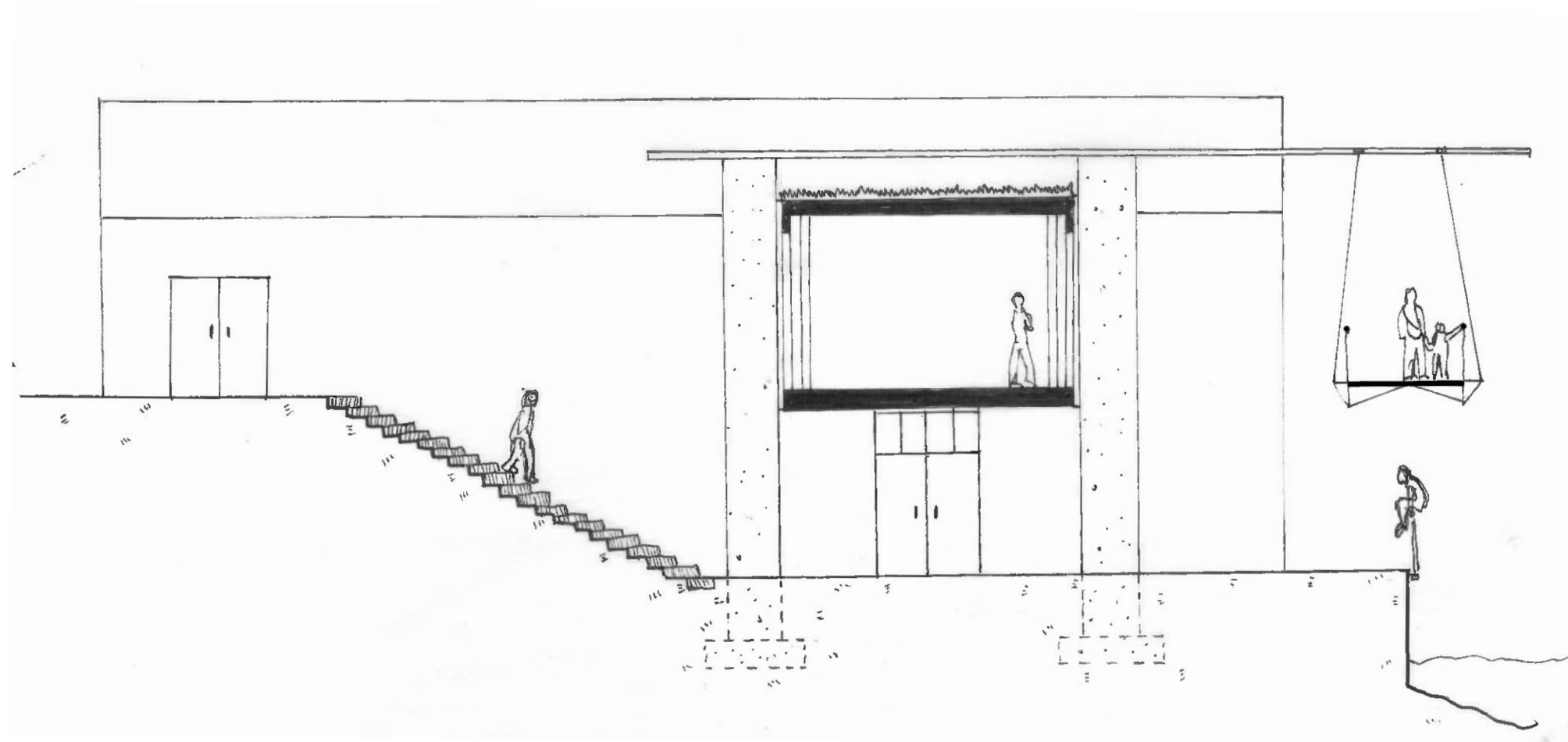


RESOLUTION: SECTION: VISUAL EXCHANGE

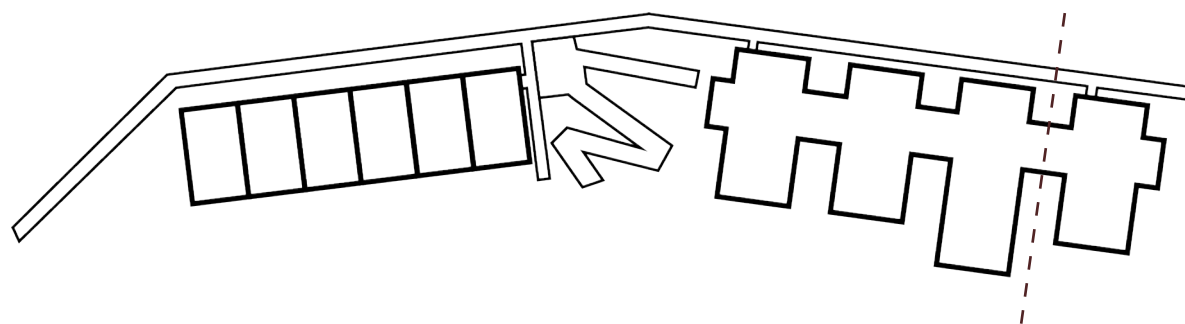


Despite there is only 2 floor level, the amont of visual exchange relations from different part of the building is enormous, people could have just walked in the cafe saw a guy taking a napping in the office space, at the same time downstairs couples are arguring, then a teenager just ran across the promenade.

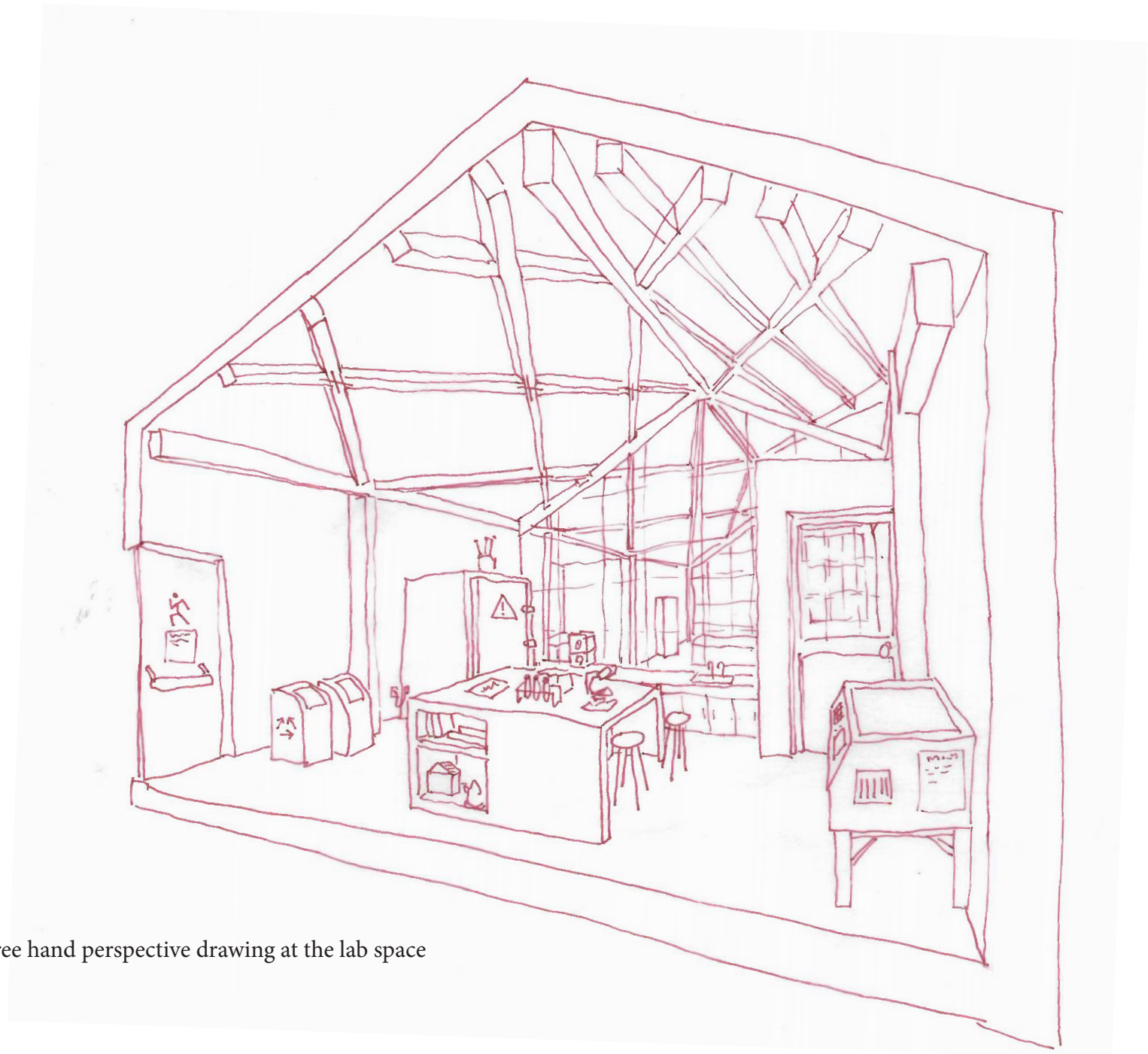
RESOLUTION: SECTION



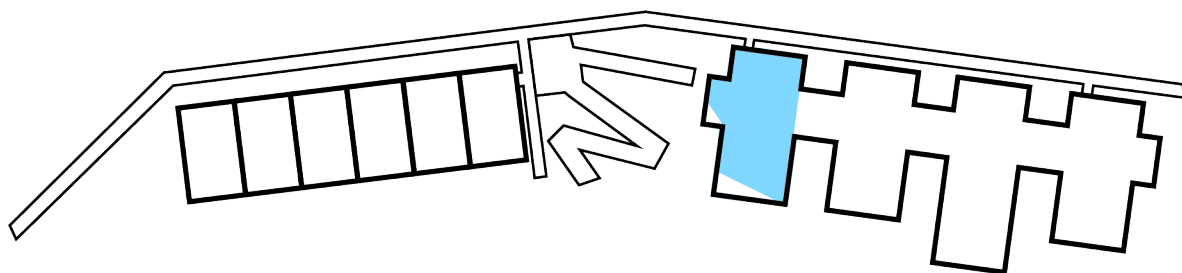
This section suggest the dynamic level changes in the transition from the pedestrian to the river bank.



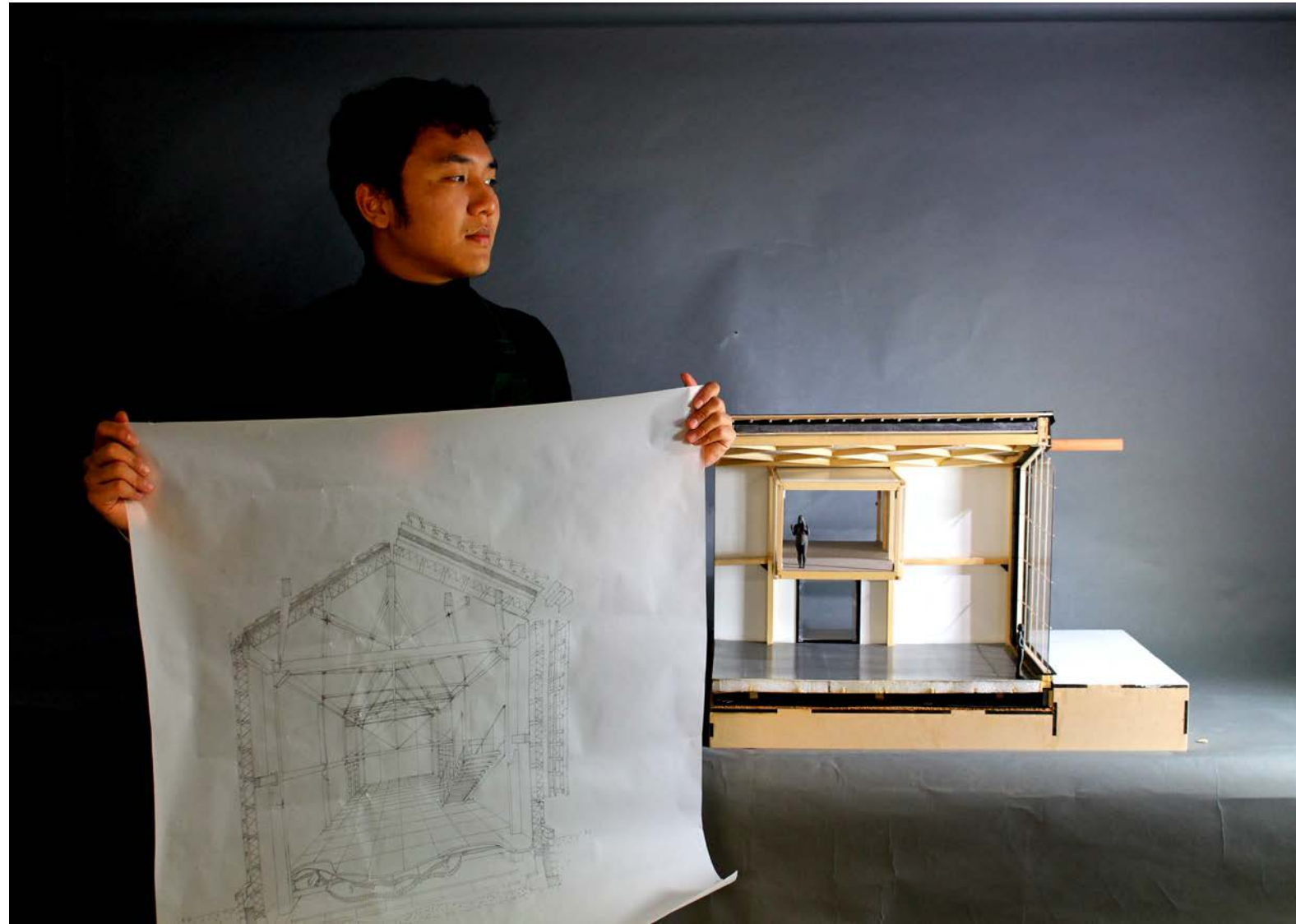
RESOLUTION: PERSPECTIVE DRAWING



Free hand perspective drawing at the lab space

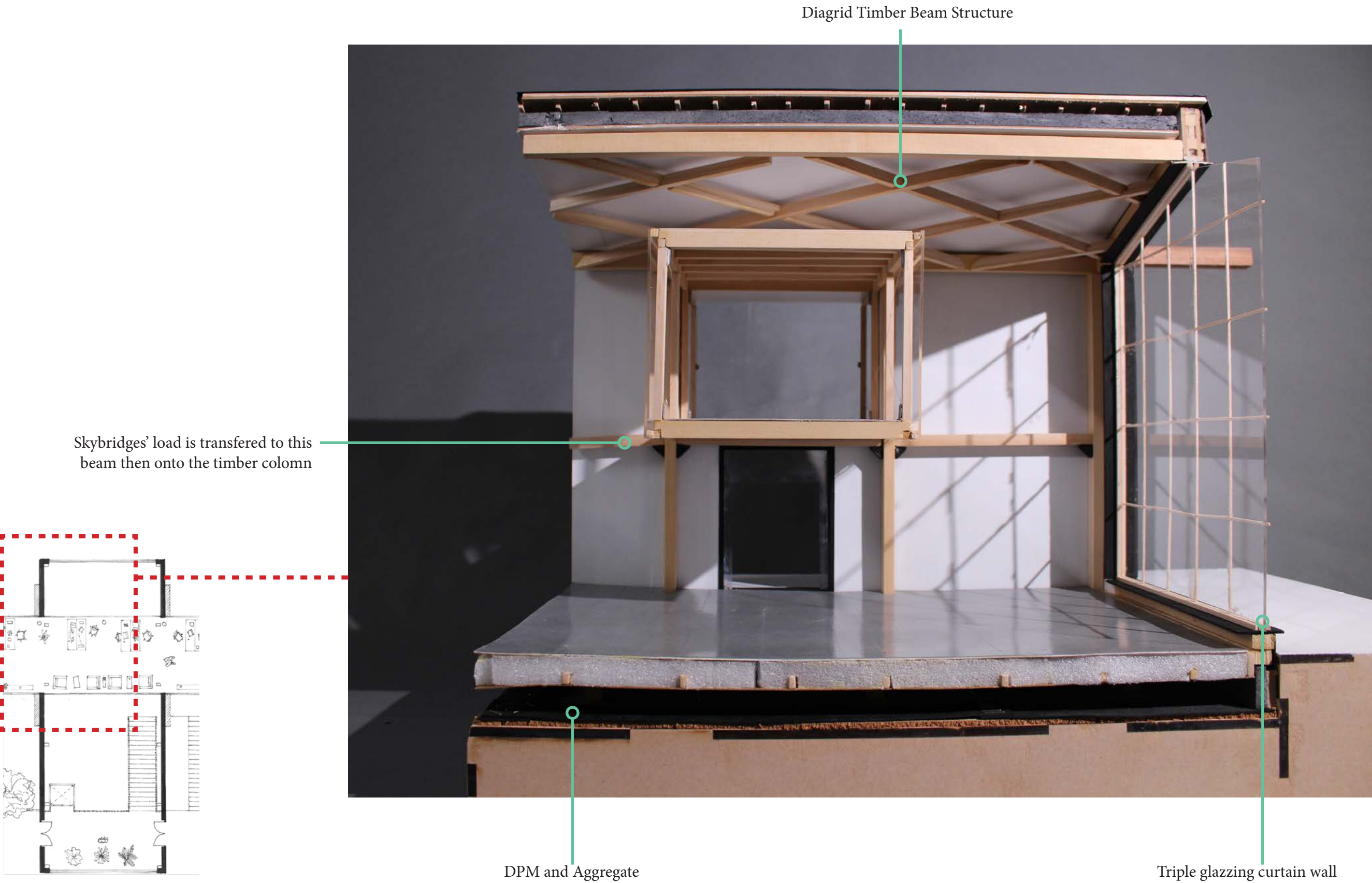


RESOLUTION: FINAL MODEL



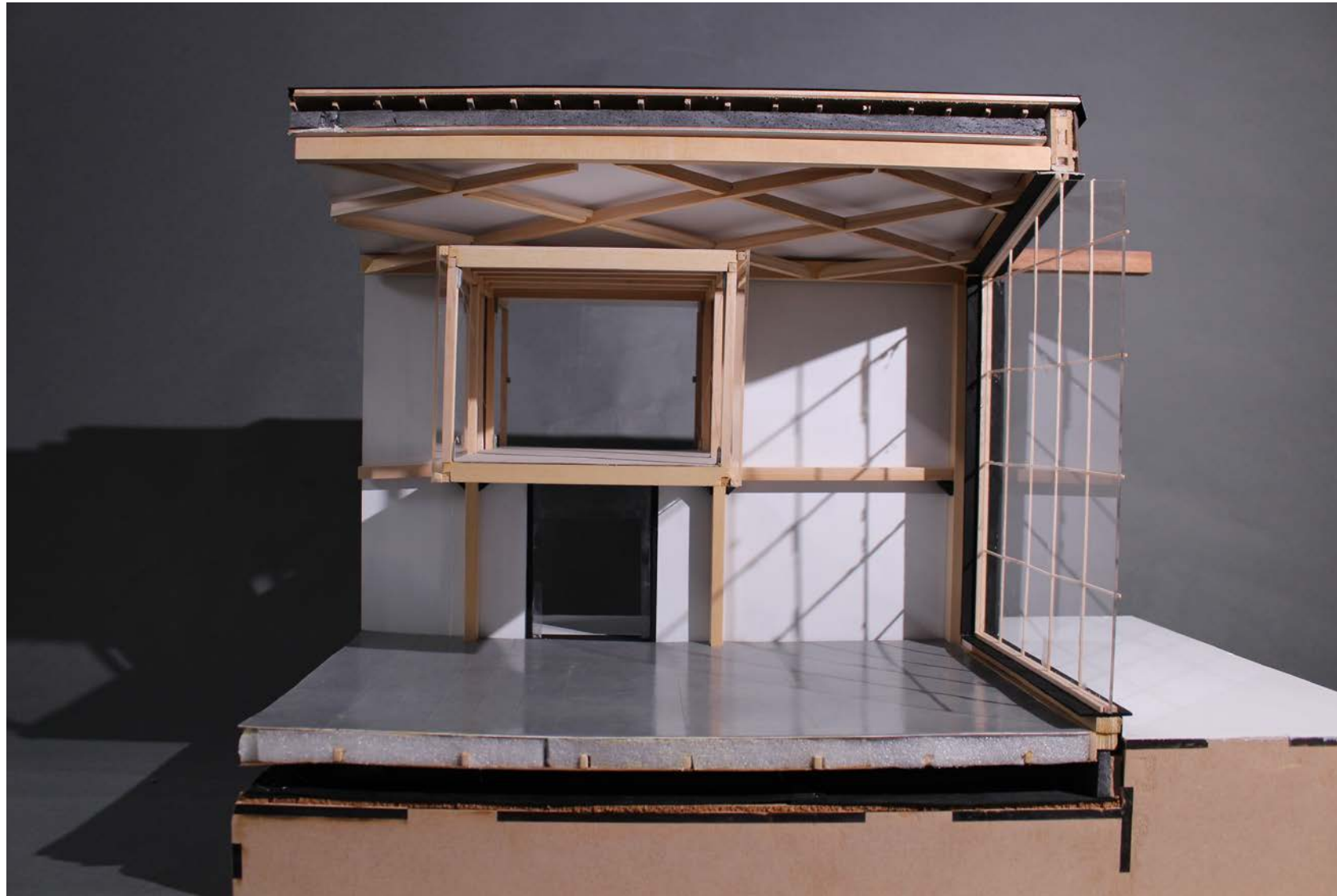
1:20 PHYSICAL MODEL

RESOLUTION: FINAL MODEL



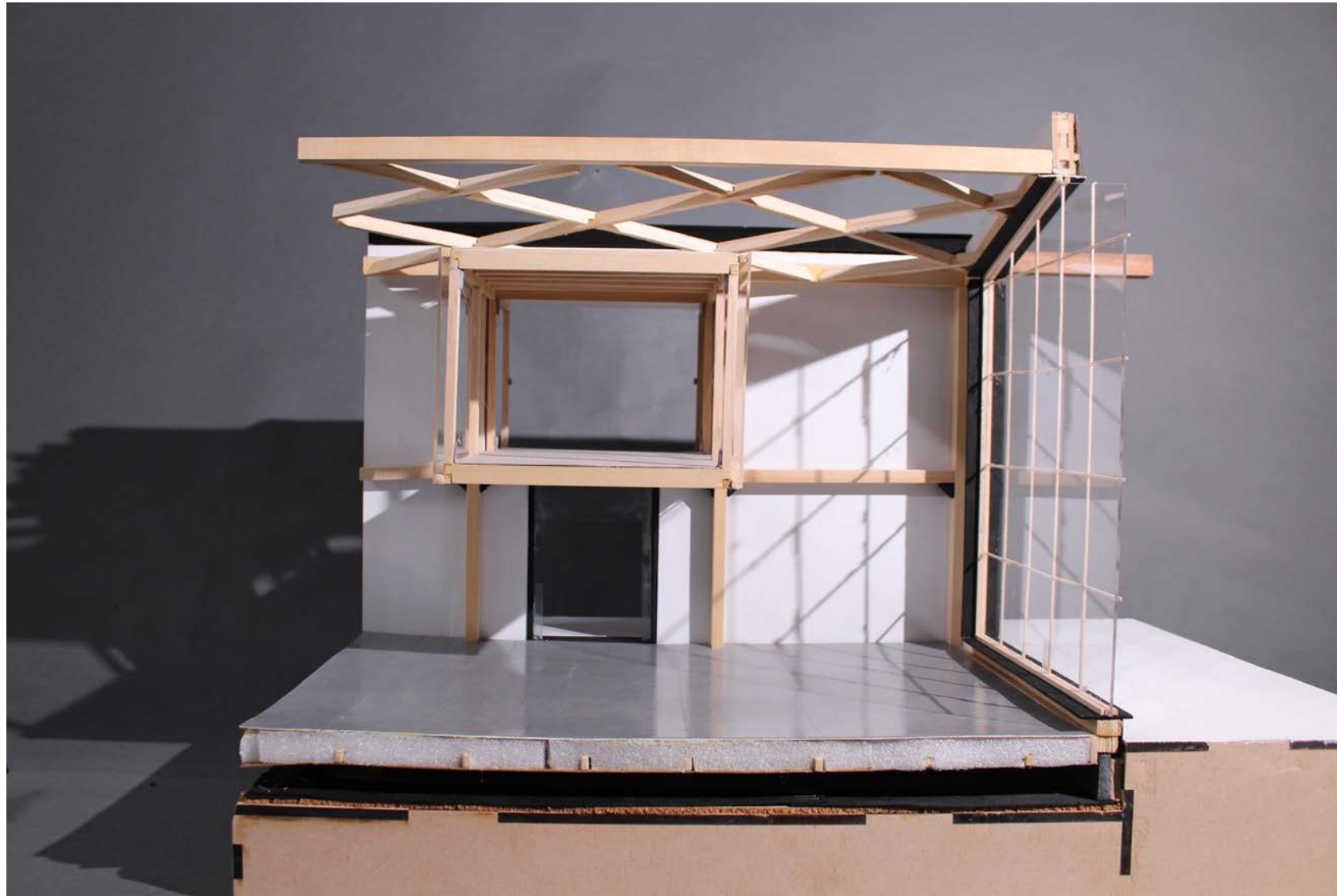
RESOLUTION: ANIMATION

The roof and floor of the model is removable to allow inspection into the construction detail.



RESOLUTION: ANIMATION

The roof and floor of the model is removable to allow inspection into the construction detail.



RESOLUTION: ANIMATION

The roof and floor of the model is removable to allow inspection into the construction detail.



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RESOLUTION: ANIMATION

The roof and floor of the model is removable to allow inspection into the construction detail.



RESOLUTION: ANIMATION

The roof and floor of the model is removable to allow inspection into the construction detail.



RESOLUTION: DETAILS



Activity in different floor level

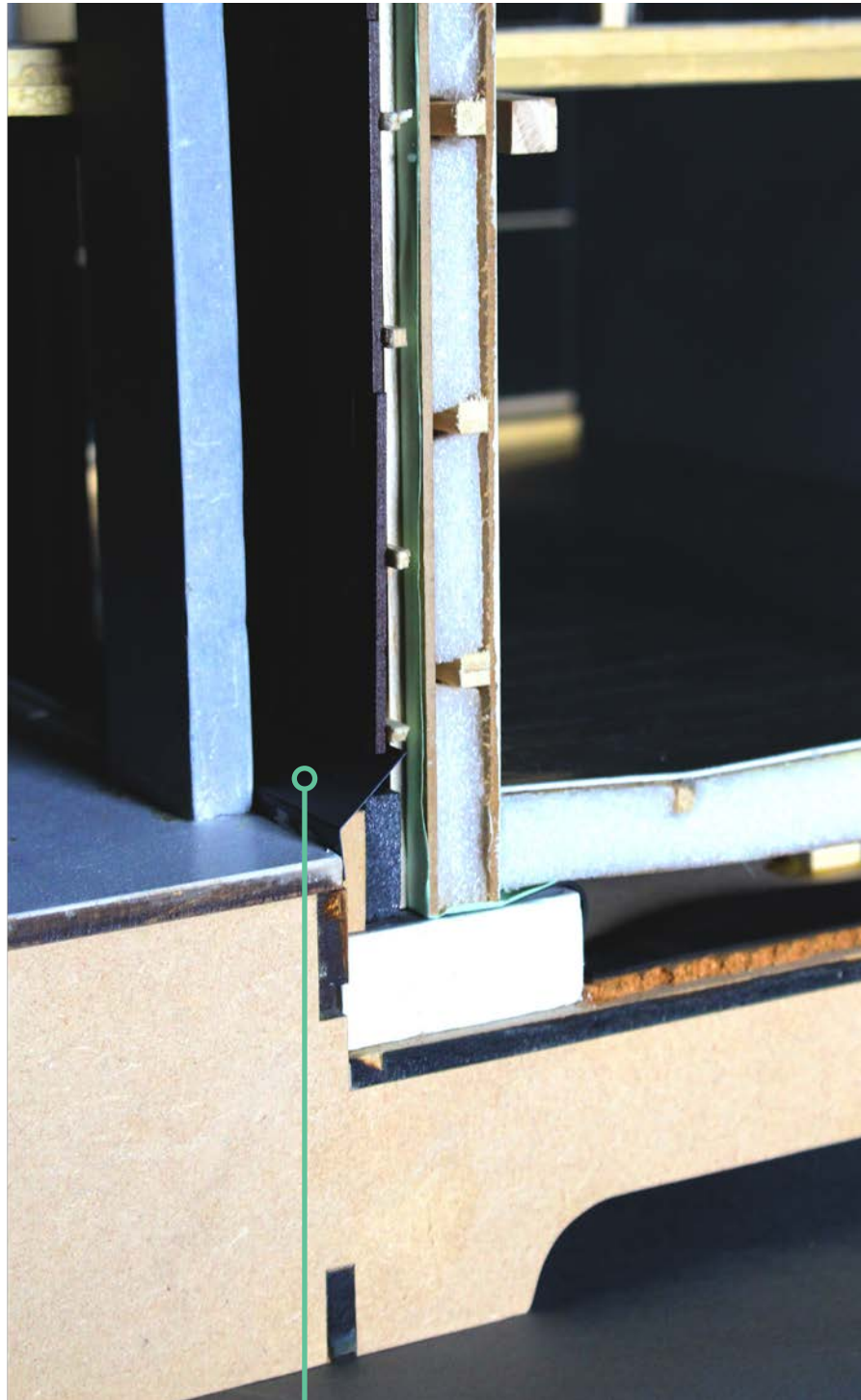


Fully insulated skybridge.

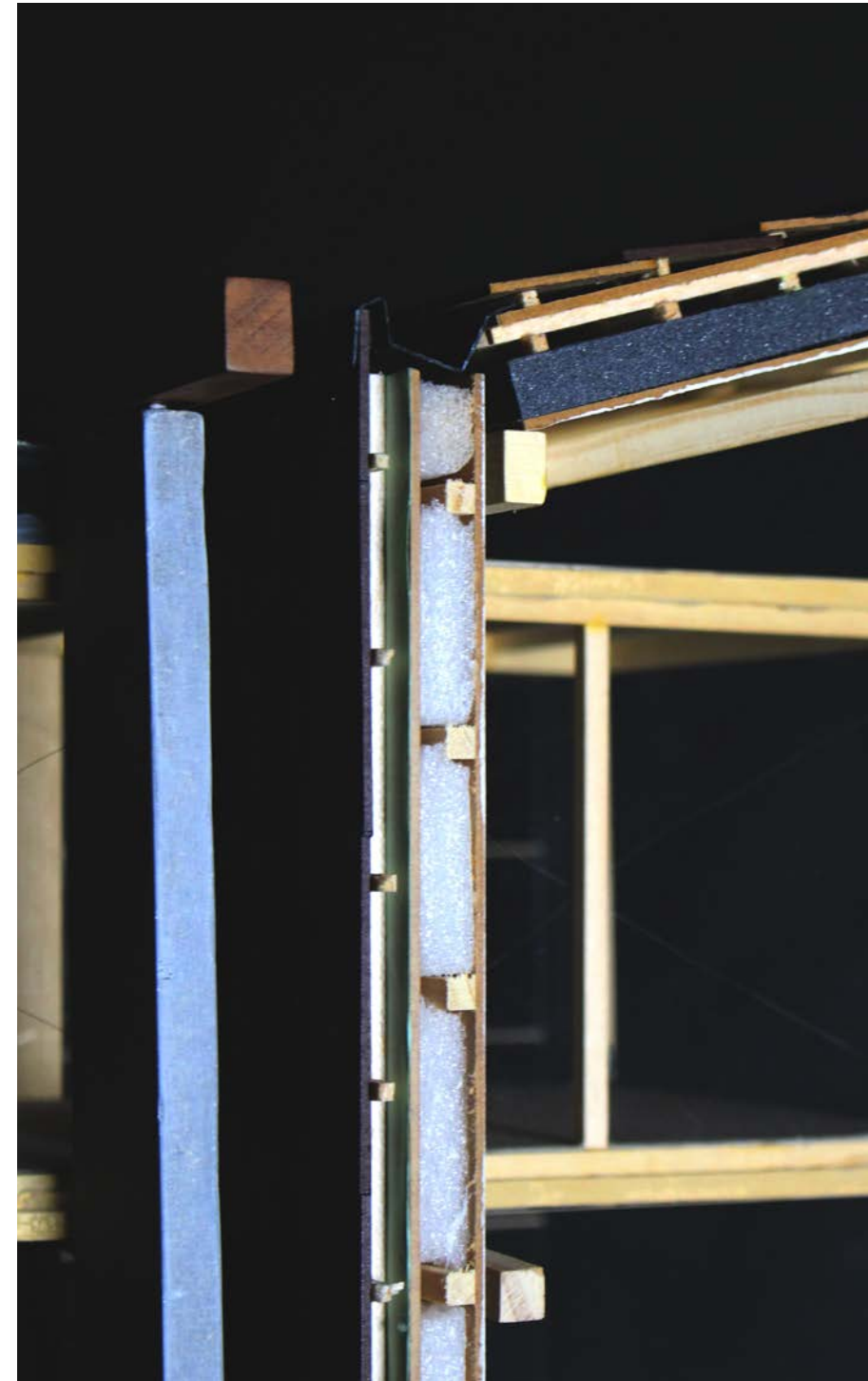


Greenroof to reduce sunlight radiation

RESOLUTION: MODEL CONSTRUCTION DETAILS



Aluminium flashing that goes under ground

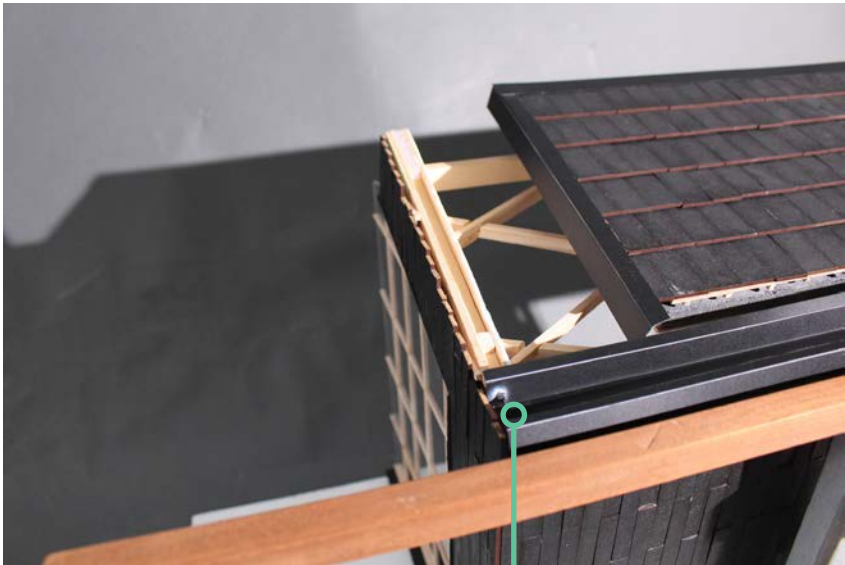


RESOLUTION: DETAILS



Steel robe bracing maintaining good structural performance on the skybridge

Only sound proofing layer present, no insulation is needed as the skybridge is contained within the cafe building



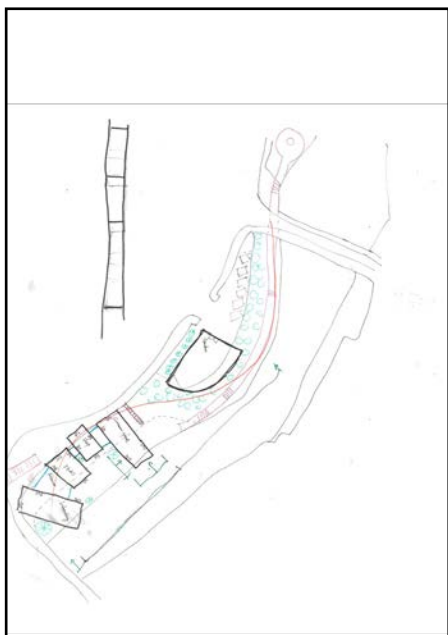
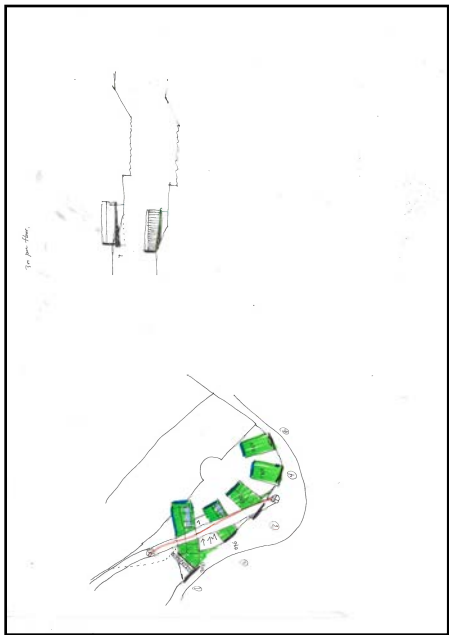
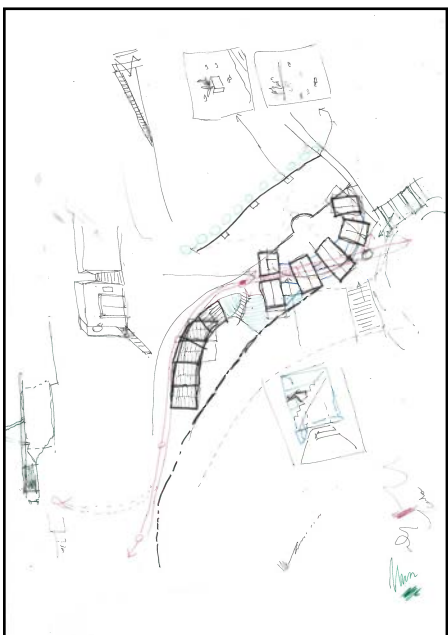
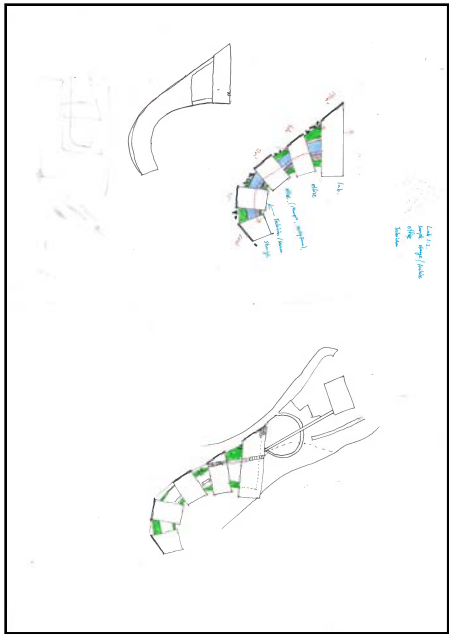
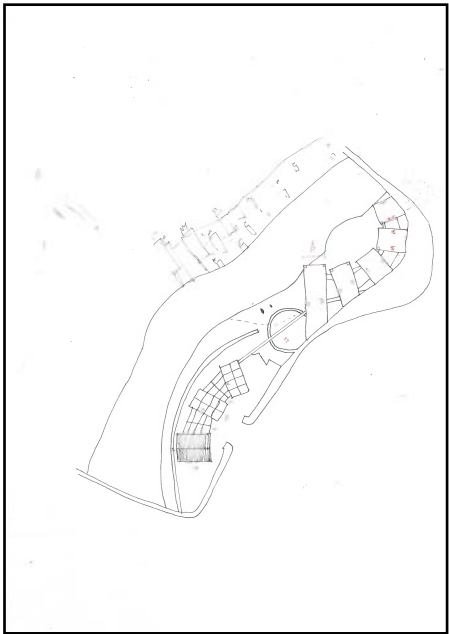
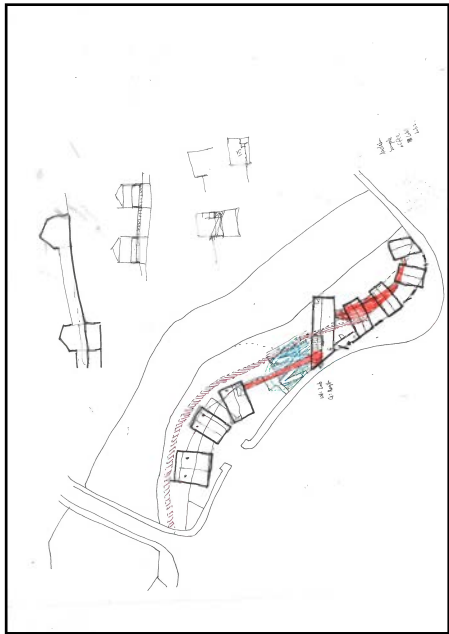
Invisible gutters is installed allows a sharper, smoother roof ending.

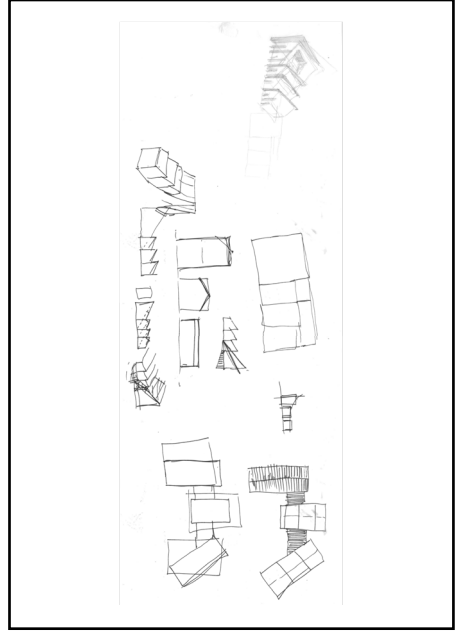
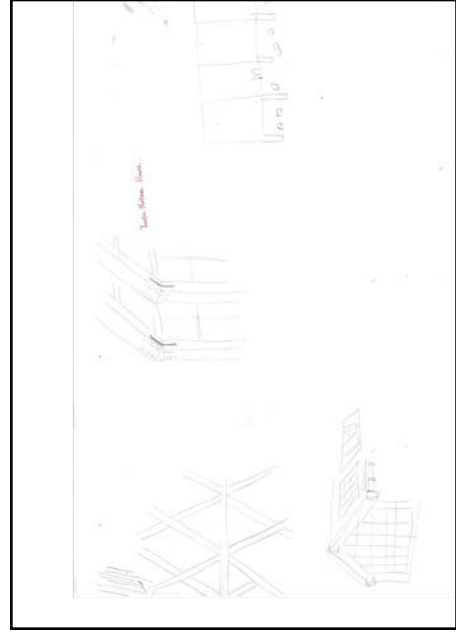
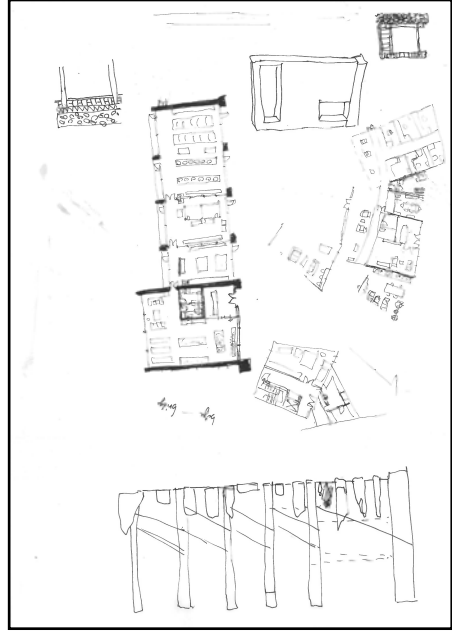
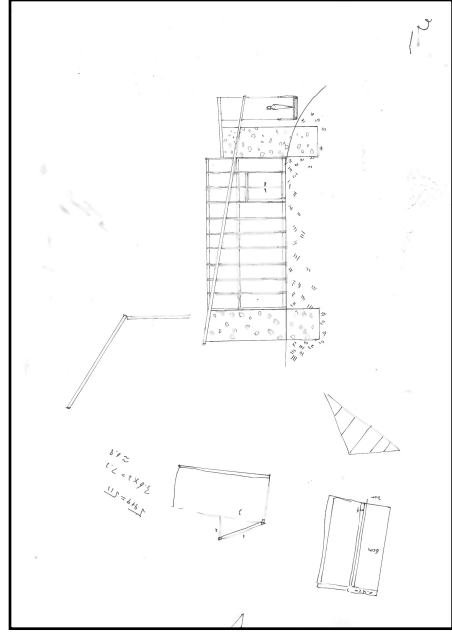
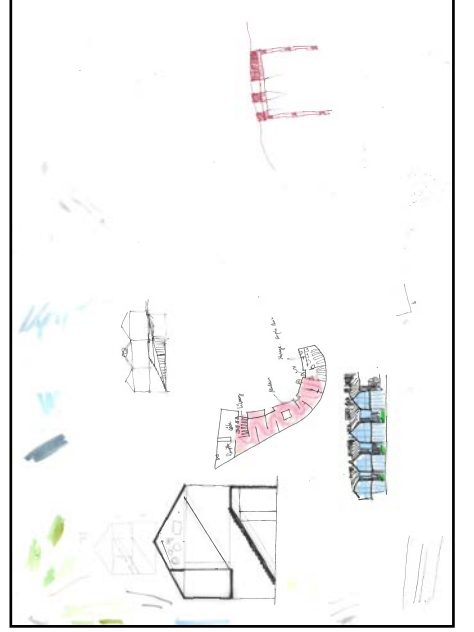
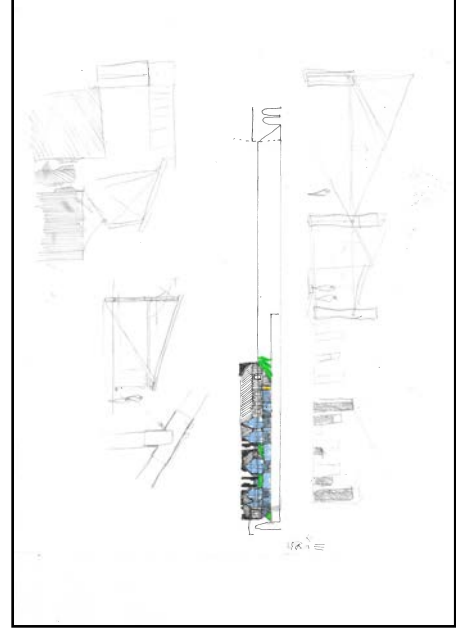
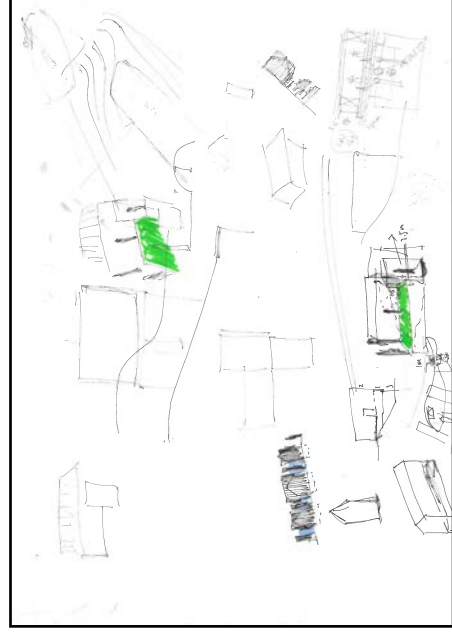
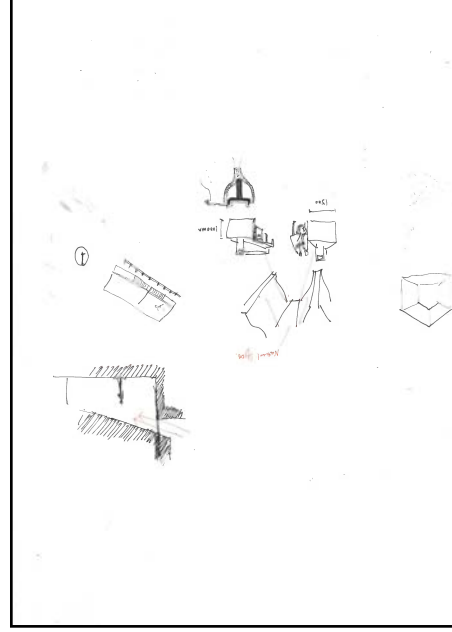
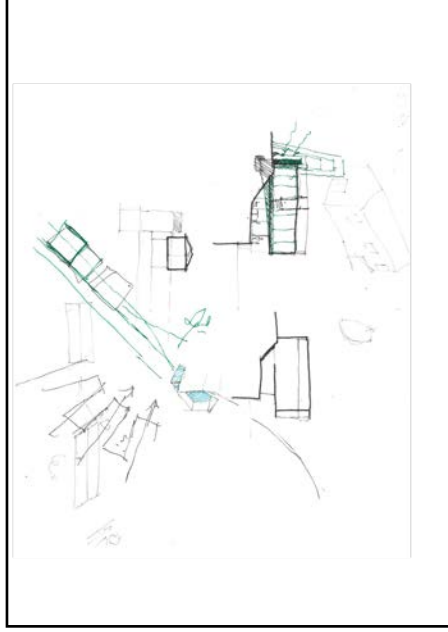
USER INTERACTION

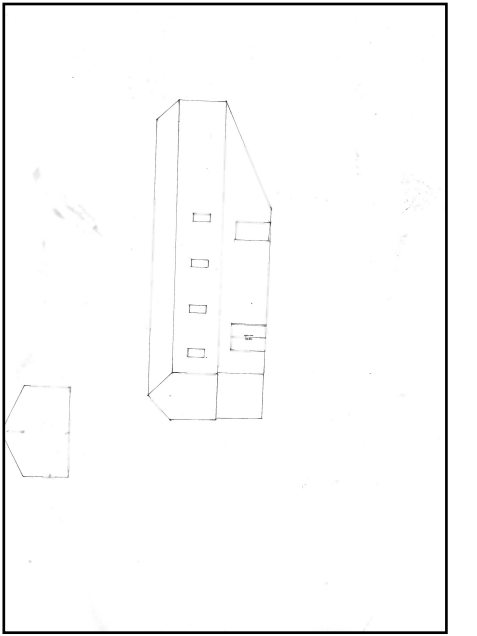
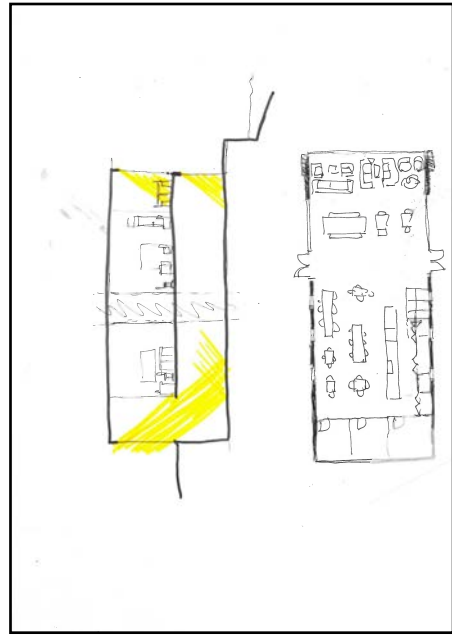
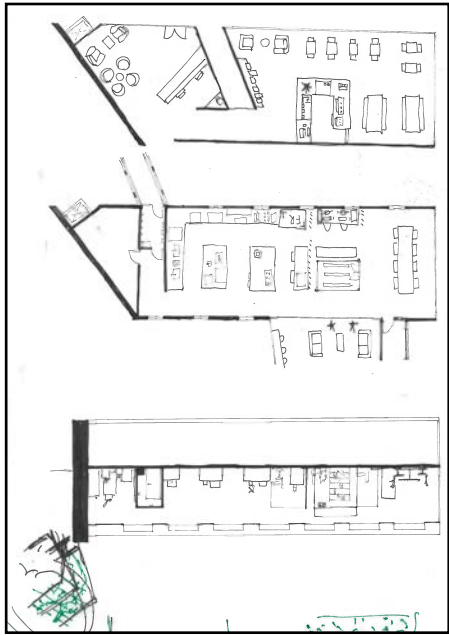
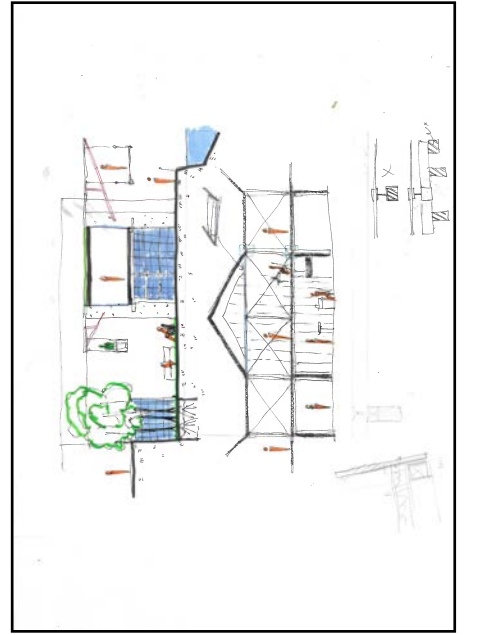
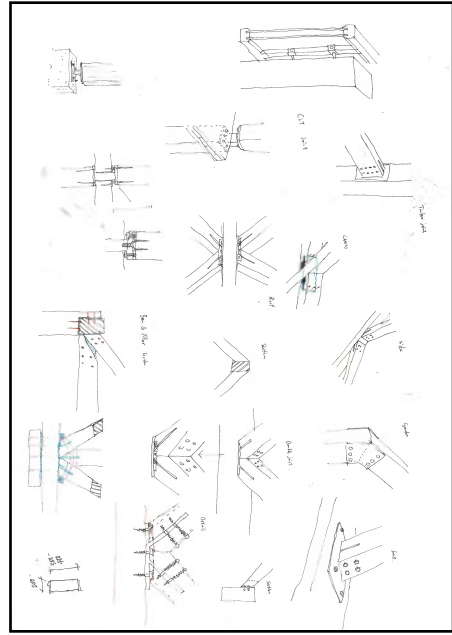
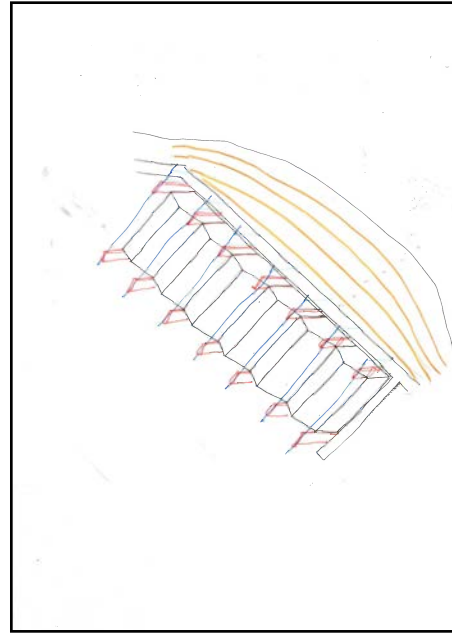
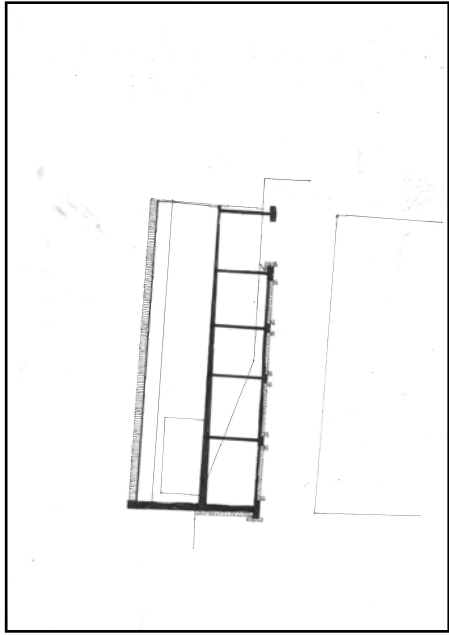


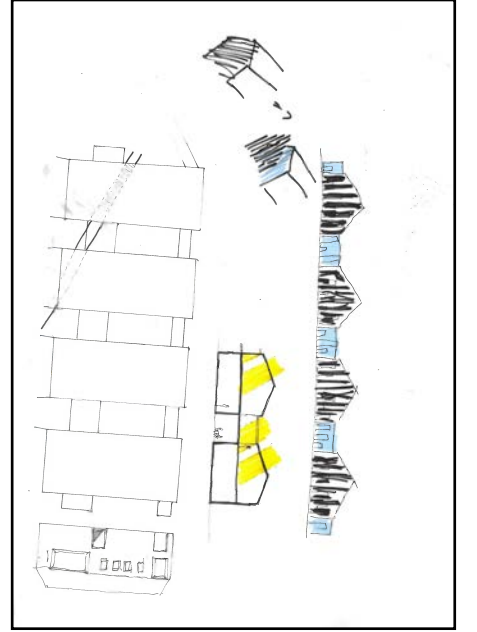
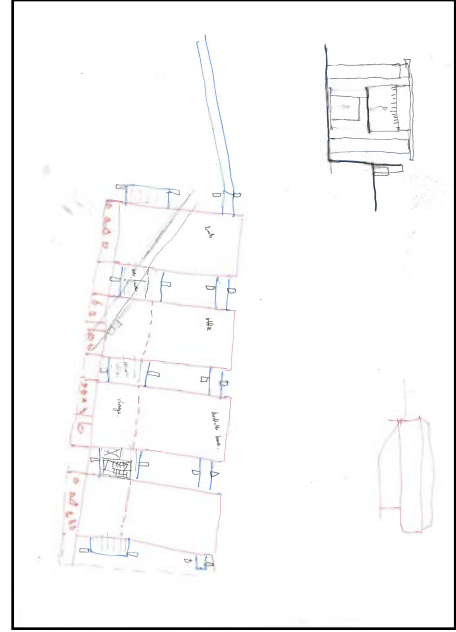
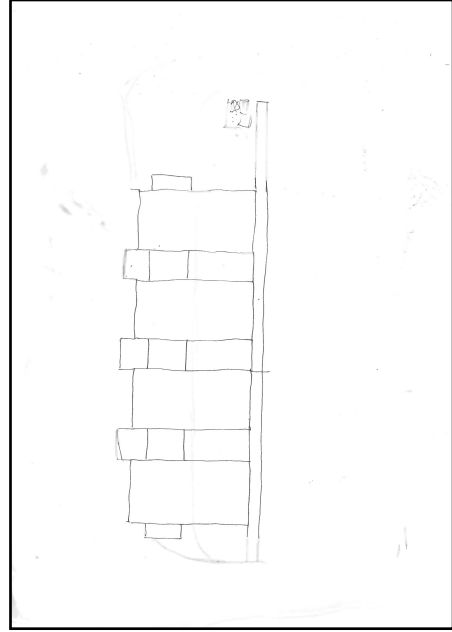
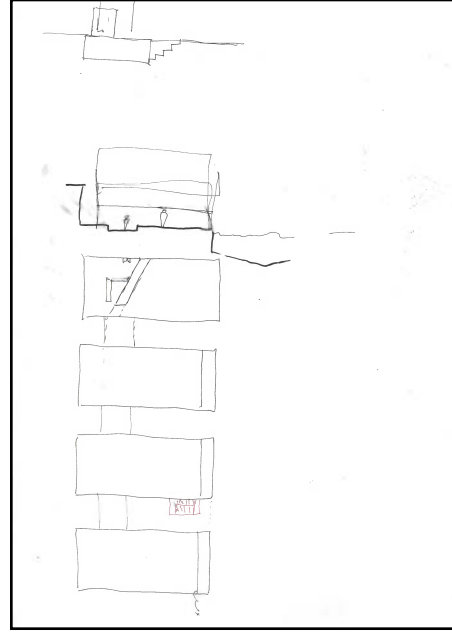
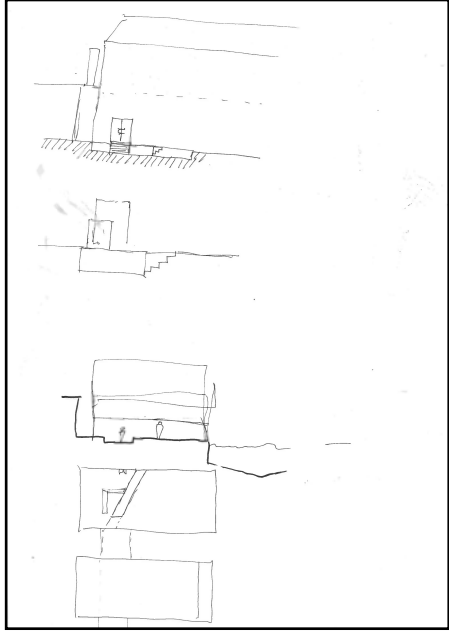
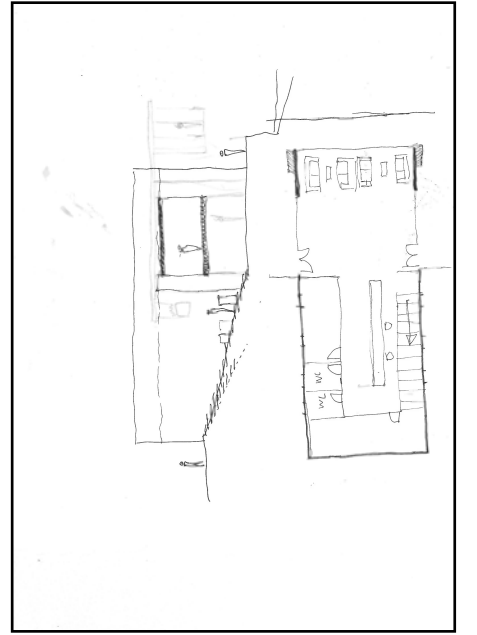
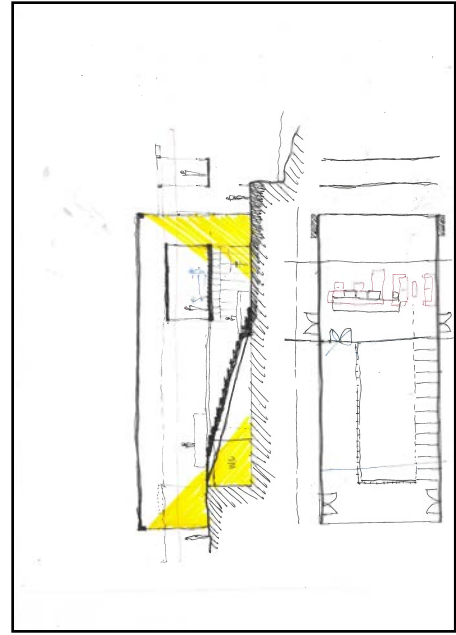
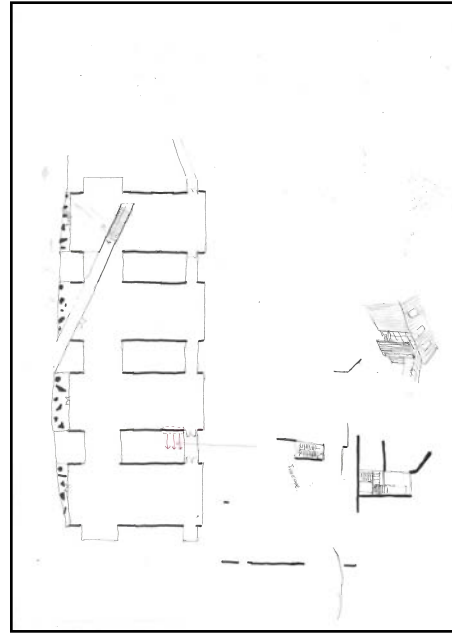
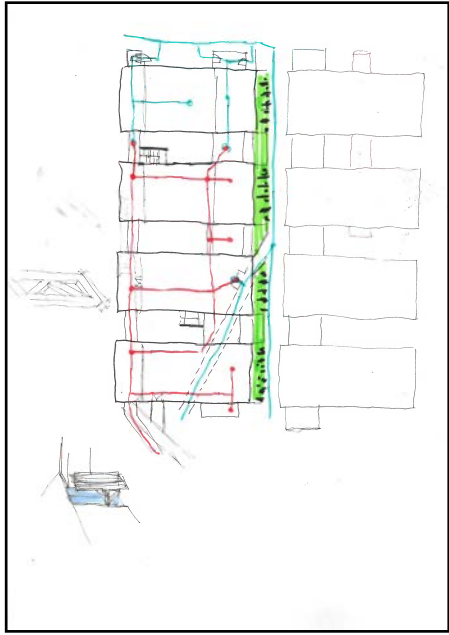
In conclusion, this model demonstrate the floor levels of my design and the interaction can be very interesting, the architectural space the skybridge cuts through the main building simbolizes bravery to break the wall and to be somthing different, be something unique.

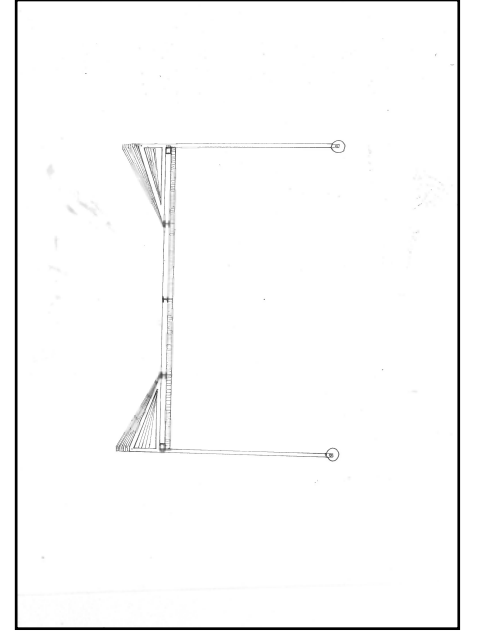
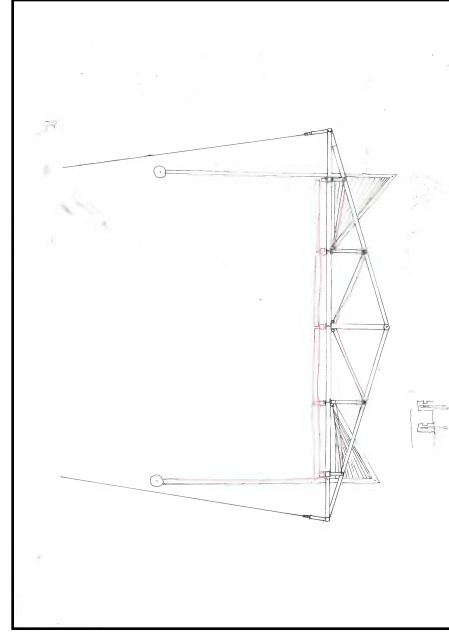
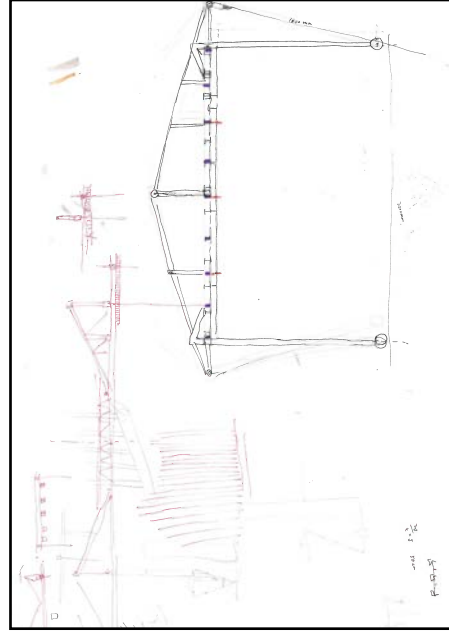
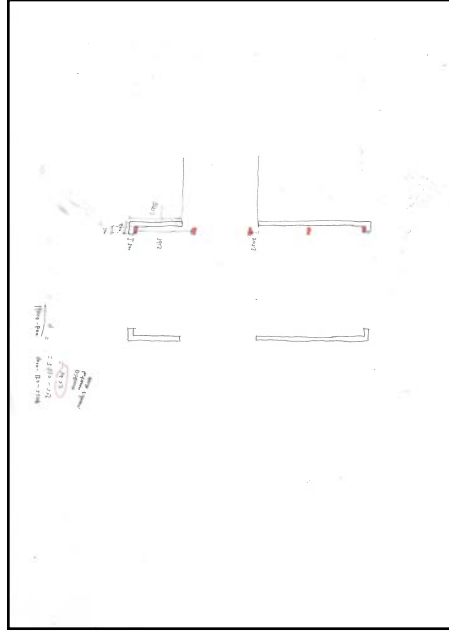
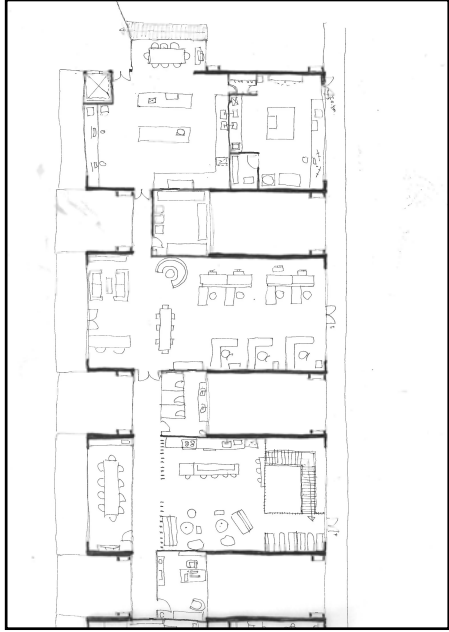
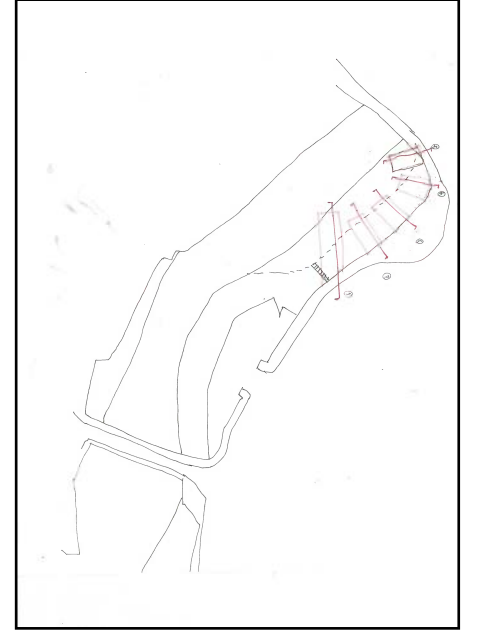
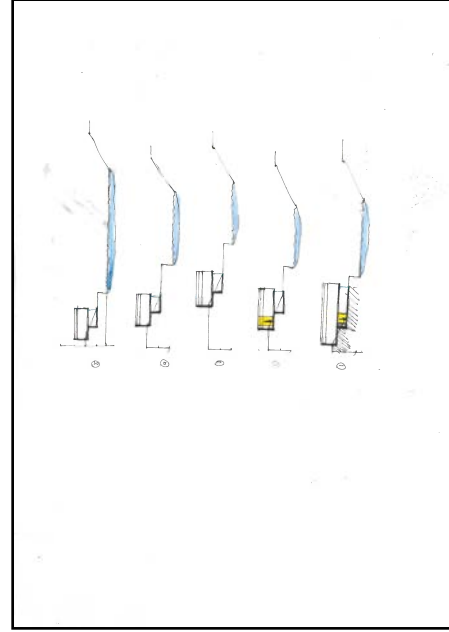
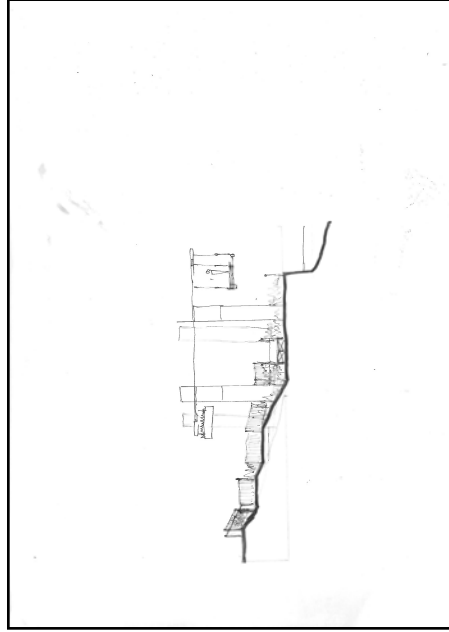
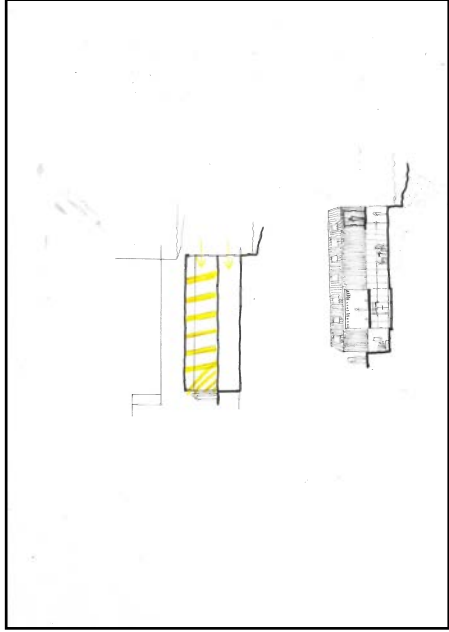
DESIGN JOURNAL

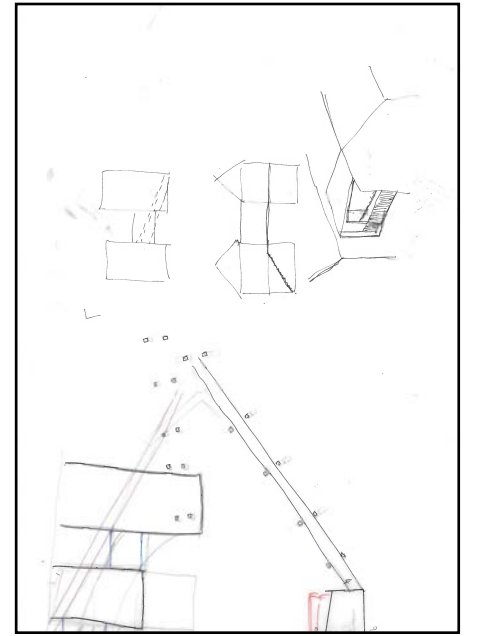
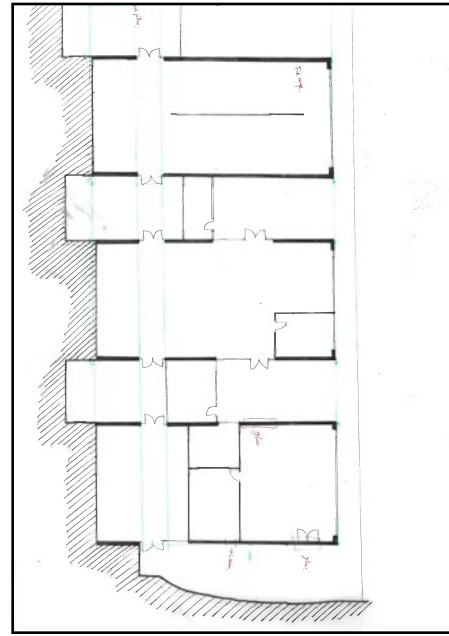
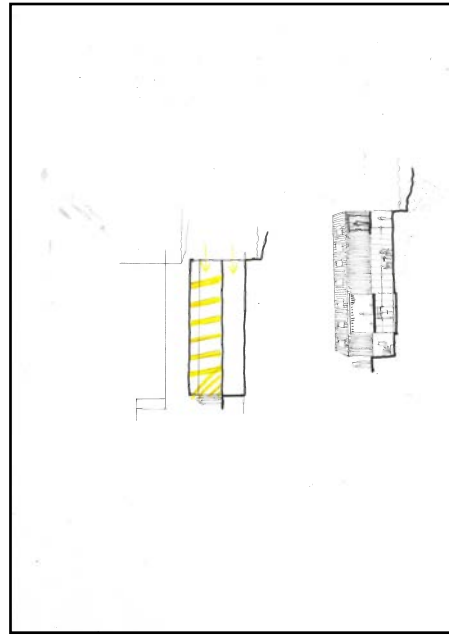
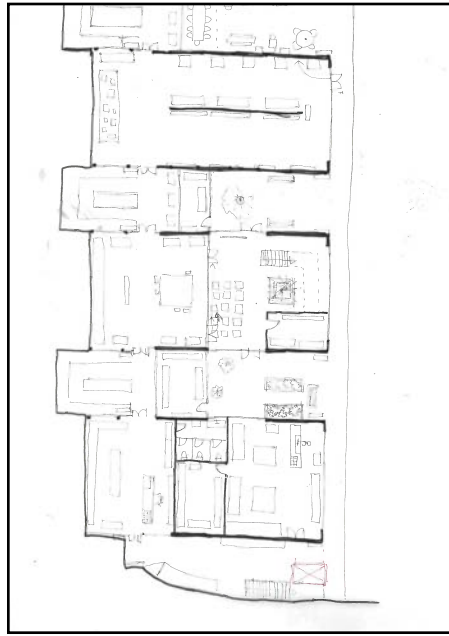
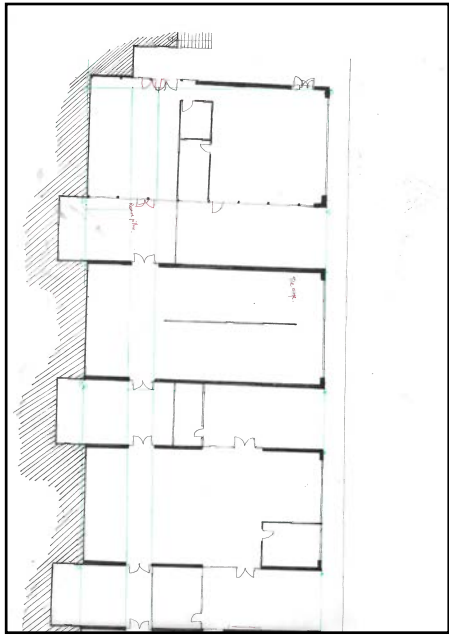
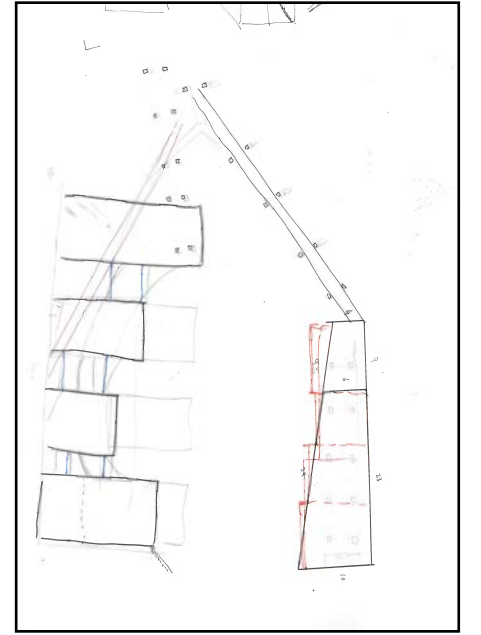
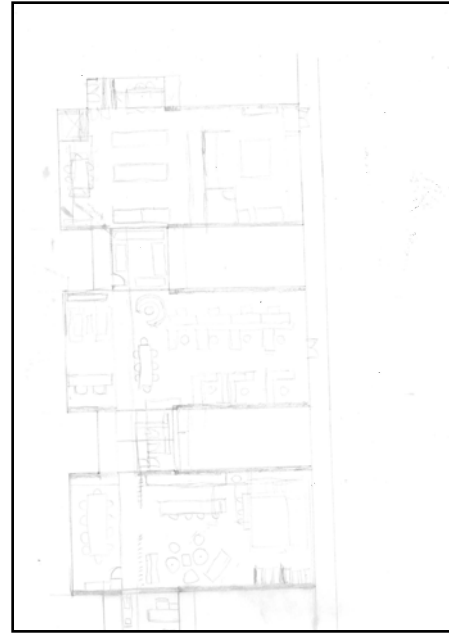
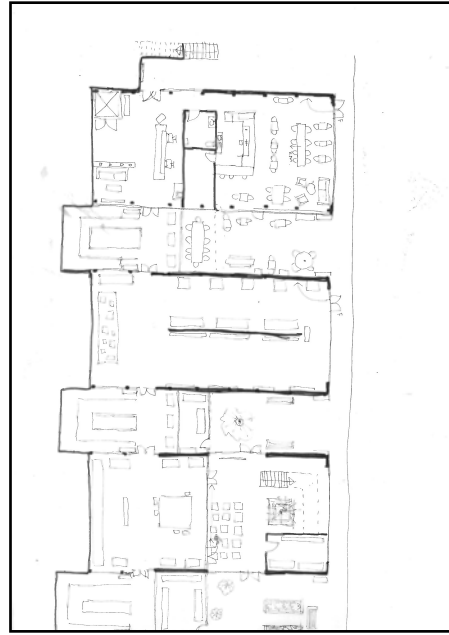
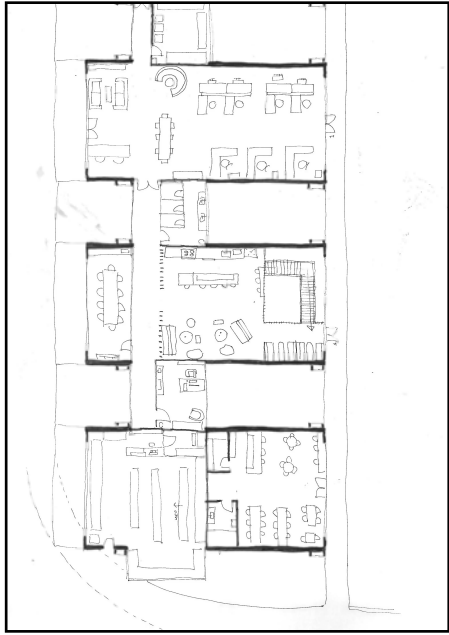


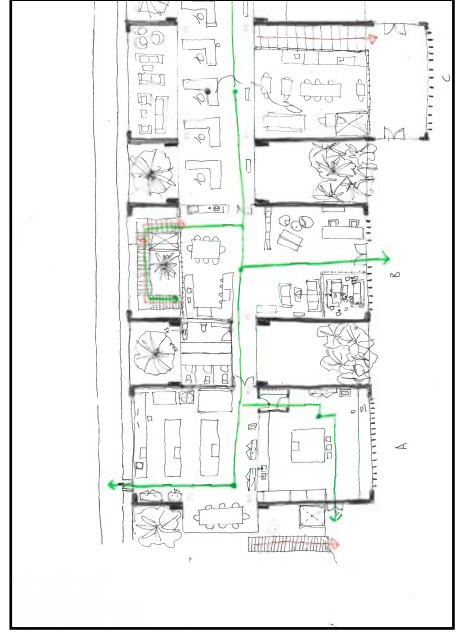
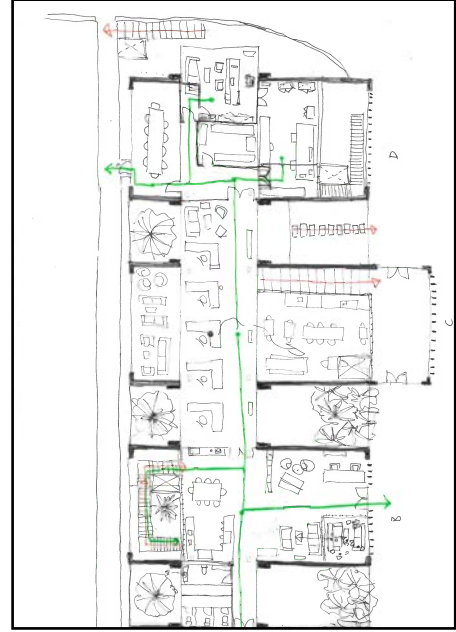
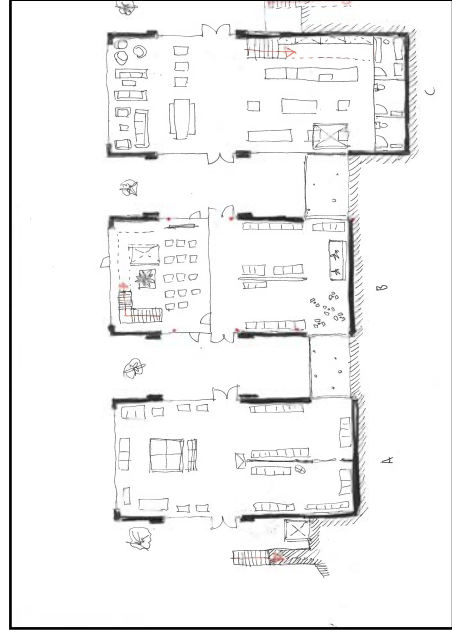
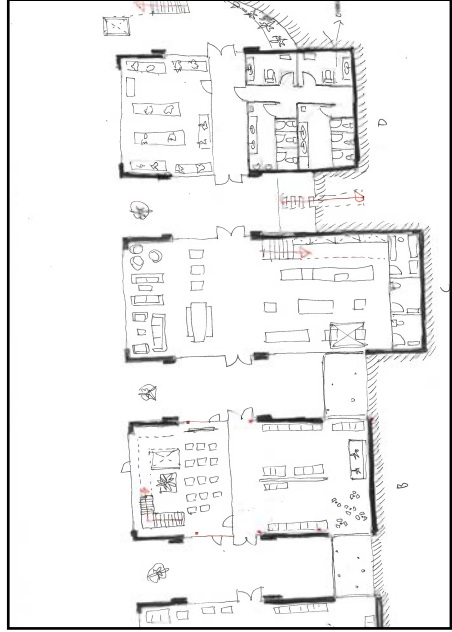












MSA LIVE: GROUP 22



BRIEF

SHOP Preston CIC serve as a backdrop of local activities, hosting various events including art exhibition, musical events or yoga session. the space demands multi use spce, so our task is to create a set of multi-functional furniture allowing more functions in a 20m² space.

MSA LIVE:TEAM



Name: (from left to right)
Akhshay George Ninan (MArch1)
Alina Iskrytska (MArch1)
Charlotte Dunn (FDN)
Saul Bunyan (MArch1)
Da Lan (BA2)
Tomas Ford (BA1)
Alexander Da Cruz (BA2)
Orhan Can Bozyel (BA2)
Duru Doruk (BA1)
Gwyneth Chan (MArch1)
Shahd Alansari (MArch1)
Tze Kei Tan (BA1)

Absent from the picture:
Ella Painter (BA1)
Syed Nadif Zaheer (BA1)
Talía Gyll (BA2)

MSA LIVE: WEEK 1 - THINK



Countless ideas has been expored in both digital and physicalling modelling methods.



Final design chosen by the client (Rendered picture)

DESIGN

The design phase was splited into 3 days, first day every two people comes up with one design, then deisgn and designers are categorized together into small based on their similarity, and the next day each group comes up with a more refined, integrated design, so on so forth.

the final day we delivered the fi-nal design to the client along with optional design and they were happy about it.

MSA LIVE: WEEK 2 - MAKE



PROCESS

Material were processed in B15 workshop, to make each piece into the shape we want we have to cut out slots in on the wood plants.



ADJUST

After the 1st stage wood planks are humanly adjusted to the exact shape to allow maximum performance. more detailed stuffs are added on aswell including squiz-zable nots which clamps bandage.



ASSAMBLY

When everything were make perfectly, assambly takes less than a minutes, photograph shooting was taken shoon after.

MSA LIVE: WEEK 2 - FINAL OUTCOME



THE END