# A R C H I T E C T U R E



# PORTFOLIO

ARTS AND COMMUNITY CENTRE: RESEARCH AND DEVELOPMENT

#### AMY GALEA

T1A1840-2223 DESIGN STUDIO 3: PLACE AND ARCHITECTURE JAN 2023

# N T E N T S

# ARTS AND COMMUNITY CENTRE: RESEARCH AND DEVELOPMENT

#### SITE ANALYSIS

01: Routes to the site

02-05: Site analysis of the site and marsh

06: Culture of the site

#### PRECEDENT STUDY

07-09: Precedent studies

10: mood-board

11: Client analysis and mind-maps

#### DESIGN DEVELOPMENT

12: Concept idea (1) x2 design ideas

13: Concept idea (2) chosen design (3)

14- 17: Developing design (3)

#### **TECHNOLOGY**

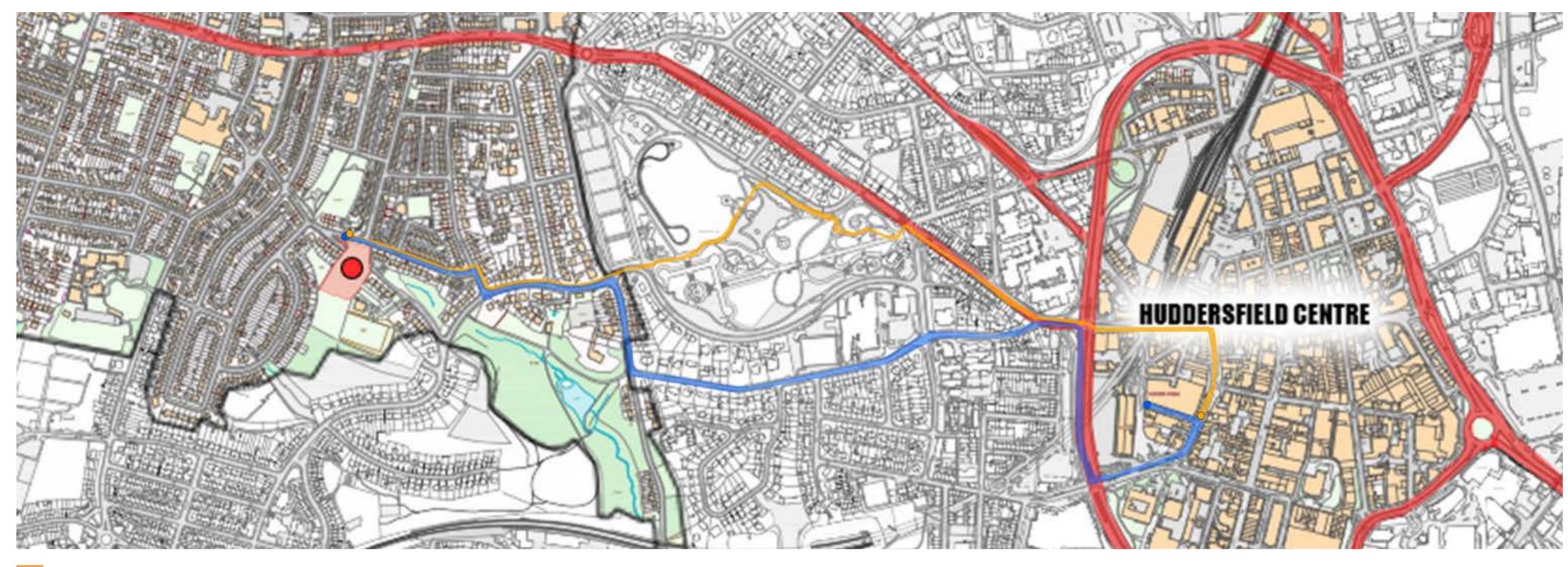
18- 20: Thinking about the construction and materials

#### ARCHITECTURAL DRAWINGS

21-24: Sections, elevations and plans

#### FEEDBACK DEVELOPMENT

25-26: Sections, elevations and plans

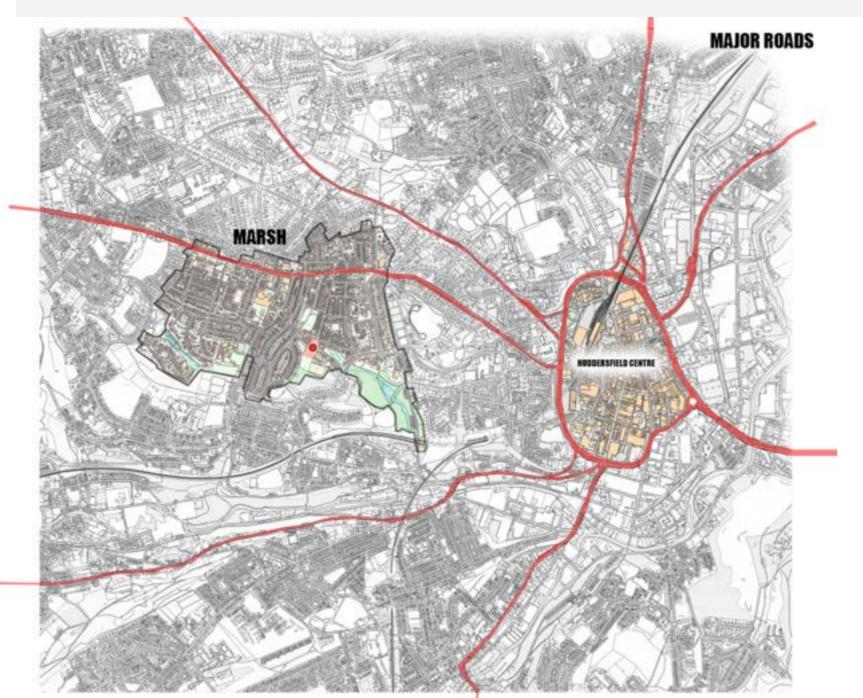


CYCLE ROUTE (10 MINS)

BUS ROUTE (8 MINS)

MAIN ROADS

#### MAJOR ROADS



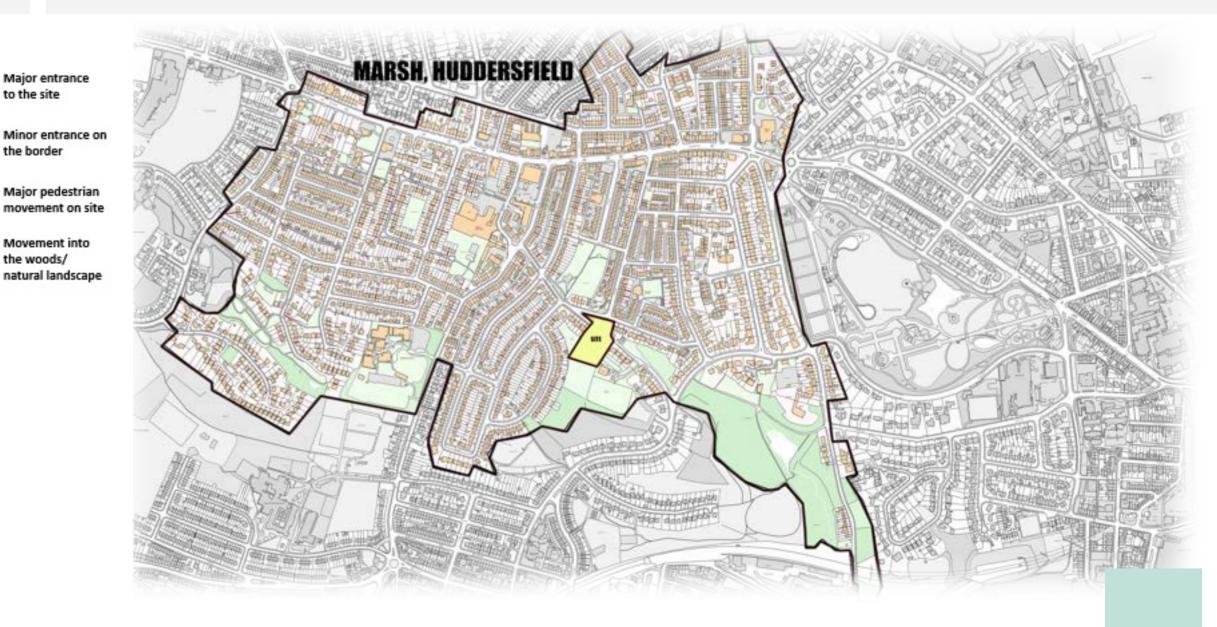
VEGETATION

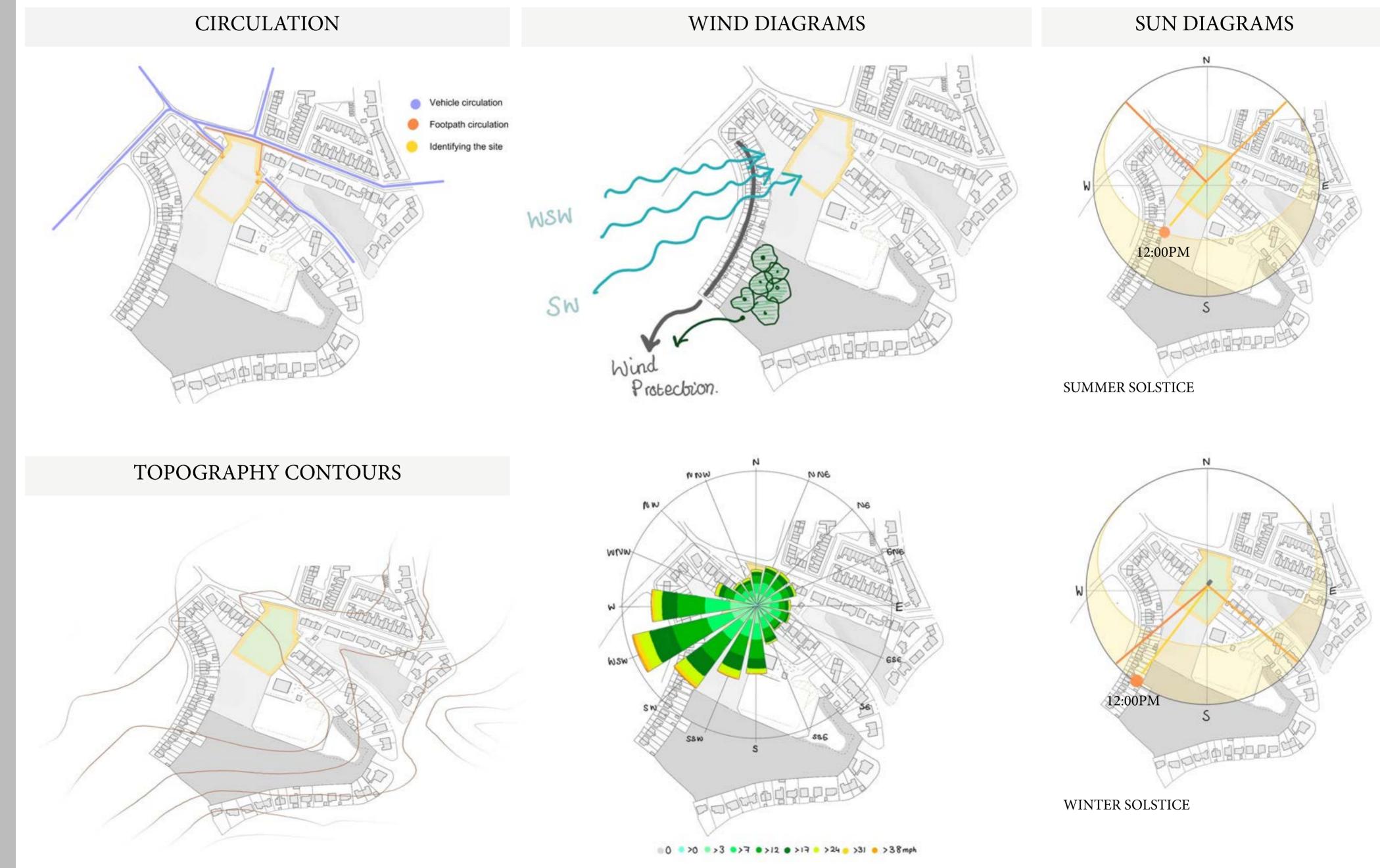


NODES



#### MARSH BOUNDARY





M

A

R

#### SITE PHOTOS SEASONS





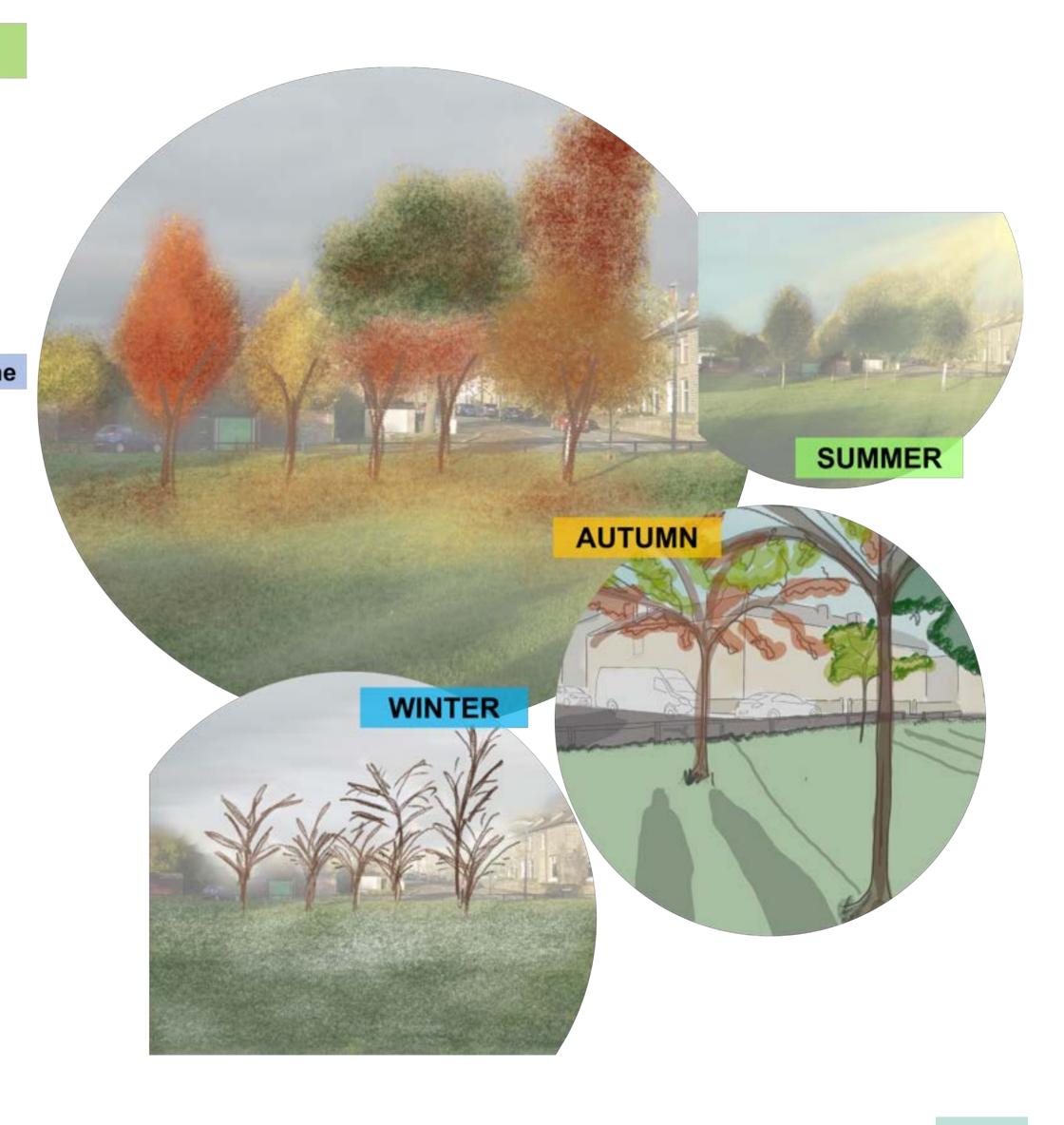
**Measuring boundaries** 

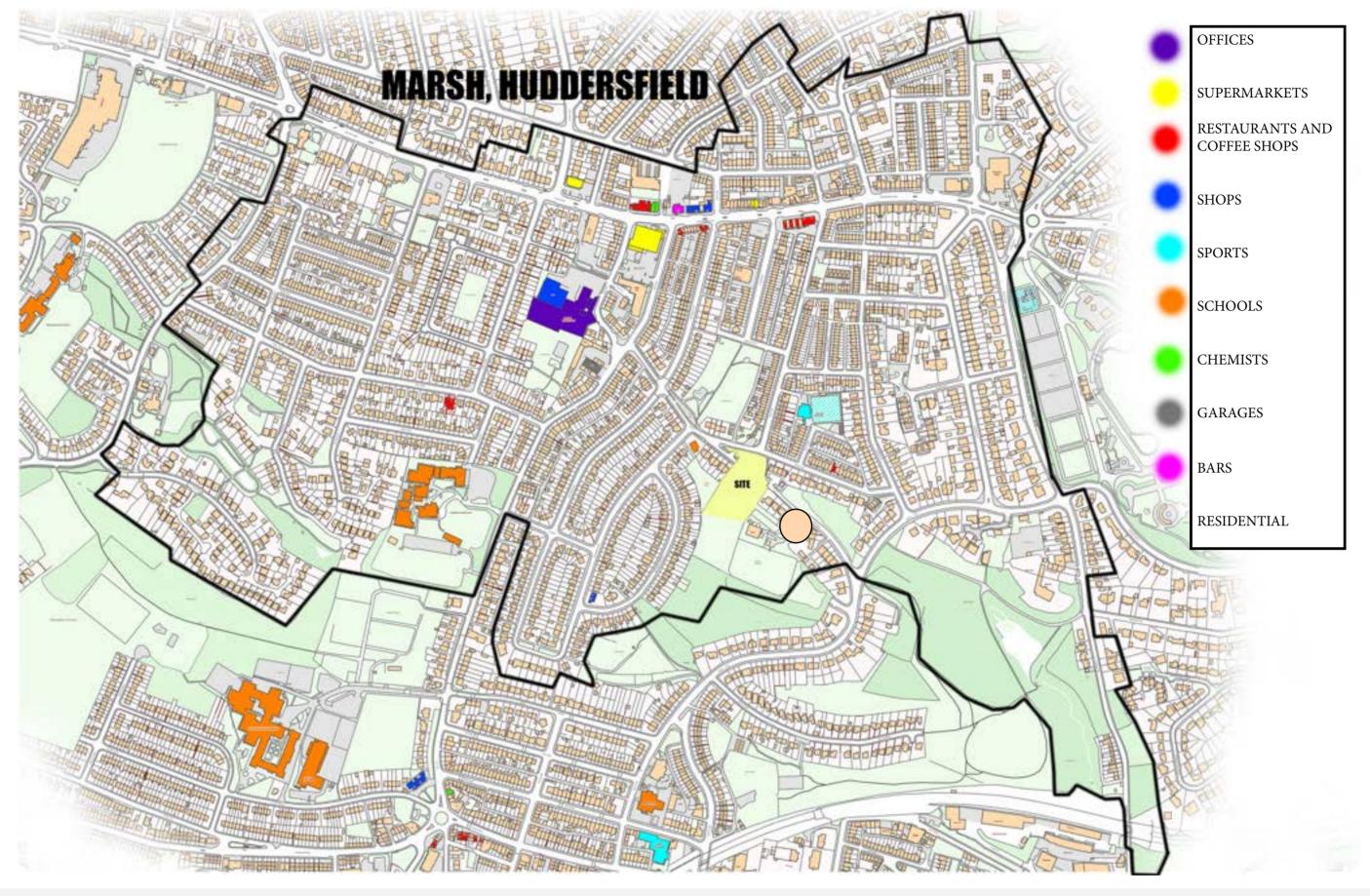




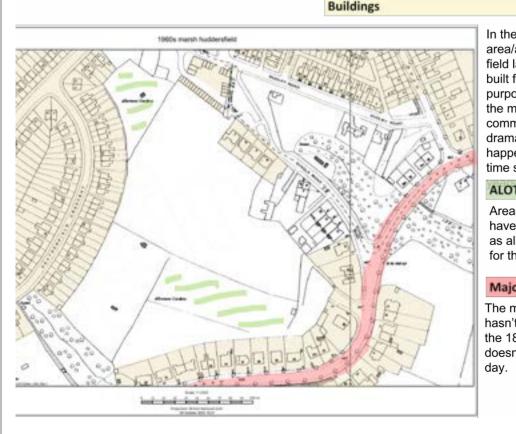


The effect of the site due to seasons, effects the visual aspects of the site, nature changes, the sun changes and weather conditions these are elements to consider.





#### HISTORY OF THE SITE



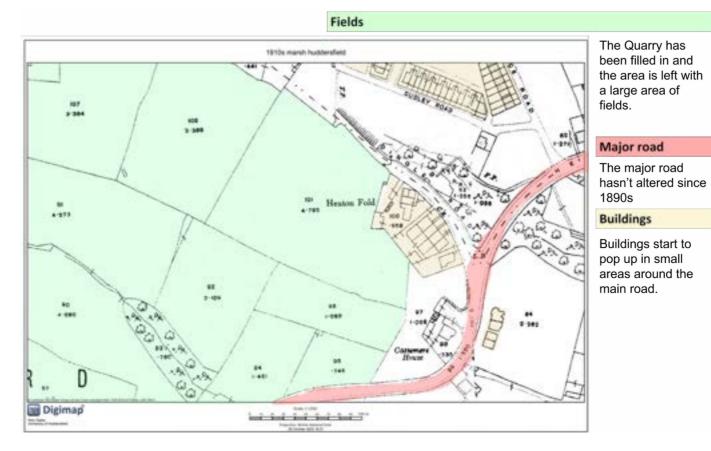
In the 1960s a large area/amount of the field land has been built for residential purposes creating the marsh community. This dramatic change happened within a time span of 50

#### ALOTMENTS

Areas from the fields have been labelled as allotments, areas for the community.

#### Major road

The major road hasn't altered since the 1890s and doesn't to the current



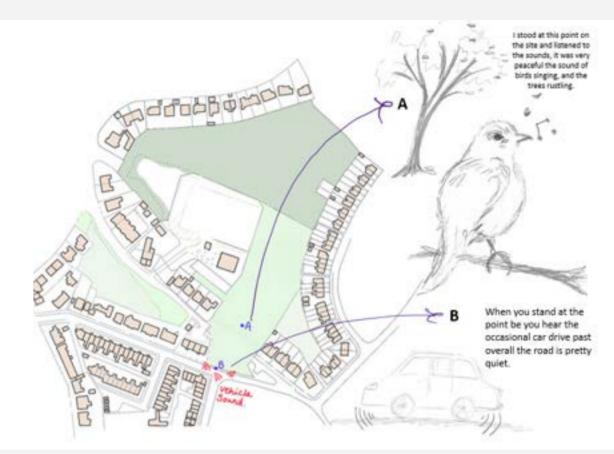
# Quarry (SE 1286 1677), Marsh, Huddersfield 117 3-368 110 2-675 Heaton Fold 55 2-432 let.det.det.det.det.d"

The 1890S - The site was situated next to a quarry, and the surrounding area was filled with fields and woods.

#### Major road

This major road is a landmark throughout history this is one thing that doesn't alter much from the 1890s to the current day.





#### SITE BOUNDARIES



#### SURROUNDING EVENTS



#### WHAT'S AN ART AND COMMUNITY CENTRE?

- What's the arts?
- Performing
- Musical
- Fine art
- Painting
- Sculpture
- Literature (poetry)
- Creative
- Fashion
- Design

- What sort of spaces?
- Performing Arts theatre space? Halls etc...
- Gallery space
- Musical performance
- Workshops
- Educational facilities
- Technical equipment
- Bookshop/library space
- Music rooms

I have done some research on art and community centers and what they include, facilities, and more to help me understand what sort of spaces my design will want to include and why.

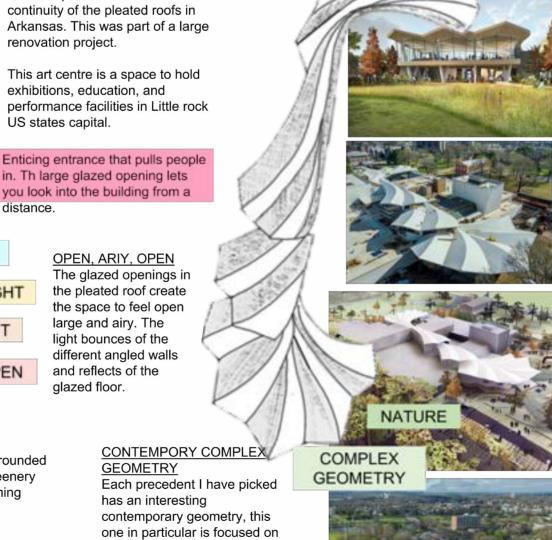
#### ARKANSAS ART CENTRE, UNITED STATES



with trees and greenery

creating a welcoming

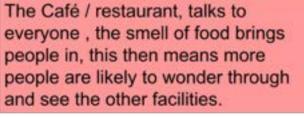
atmosphere.



its pleated roof which is made up of layers with rows of glazed openings.

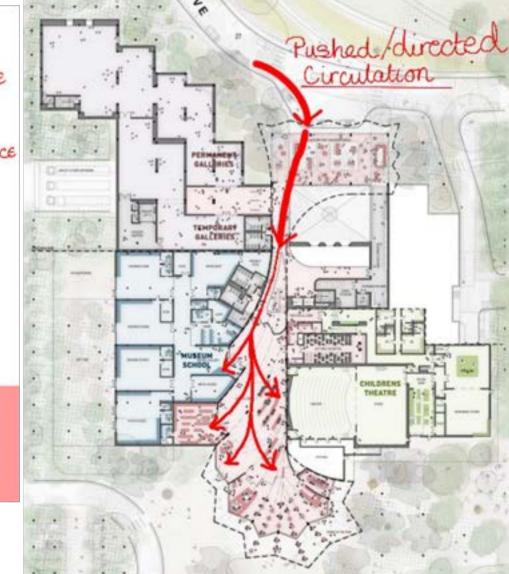
CIRCULATION The layers allow for double high spaces, which draws the circulation through the The bold white material building, this acided renovation was to create -makes the circulation/ a flow through the building. Entrance Stand out. CRESENT DRIVE SIDE COMPLEX GEOMETR' PUSHED CIRCULATION forms Layers of glazing with pleased roofs, witha letting the light shine in creating an curved completentican LAYER form central - INCLUDING BLIGHT HILL INCLINE.



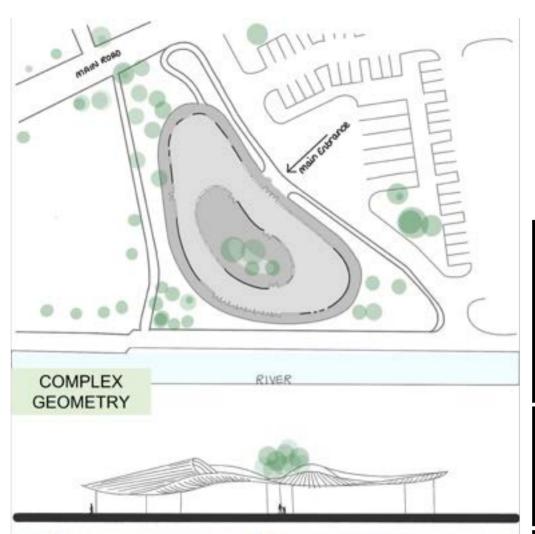


#### PUSHED/ DIRECTED CIRCULATION

The interesting complex geometry creates the pursued circulation through this building, the complex geometry creates a welcoming atmosphere, drawing you into the art centre.



#### LONGMEN QICUN ART AND DESIGN CENTRE, CHINA



Architects: Studio Dali Architects Area: 1087 m2 Year: 2022 Based: China

This art and design centre is a space for the local community to hold gallery's, exhibitions, cultural and artistic projects/ activities.

#### CONTEMPORY COMPLEX GEOMETRY

I chose to look at this building because of its interesting form and how the warm timber material creates a welcoming cosy atmosphere. Along with the interesting wavy geometry, of the roof and the buildings over all curvy shape.



I also was interested by the use of the central courtyard and the use of glazed windows most of the way around the courtyard to open it up to the rest of the building.



The building fits in with nature as you can see in this image to the right, it creates an important atmosphere improving the wellbeing and feeling of its clients.

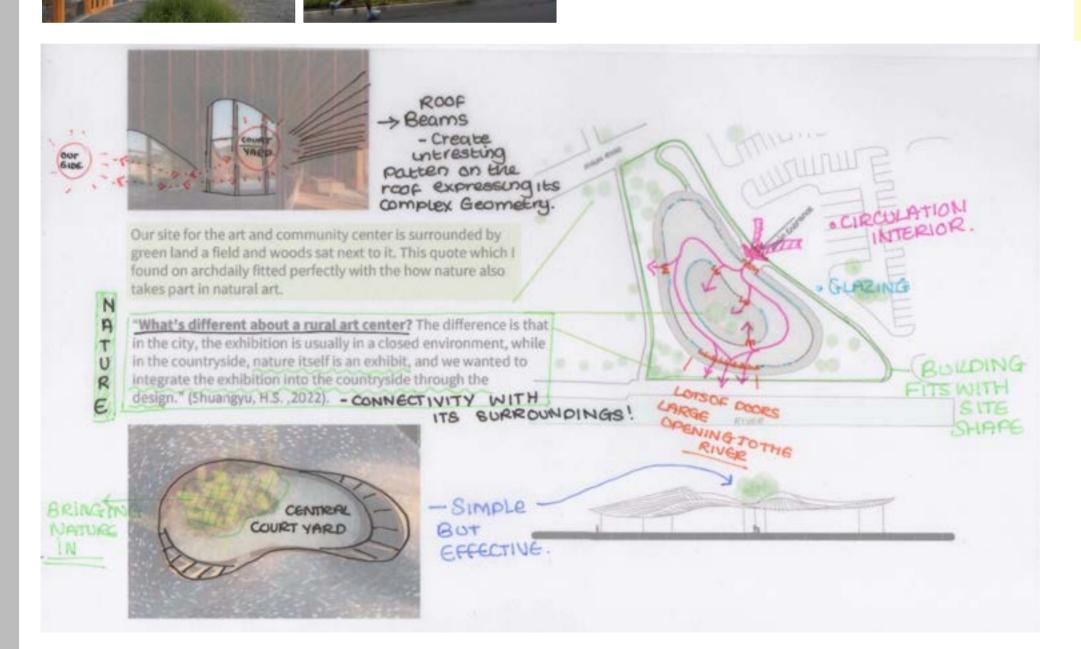


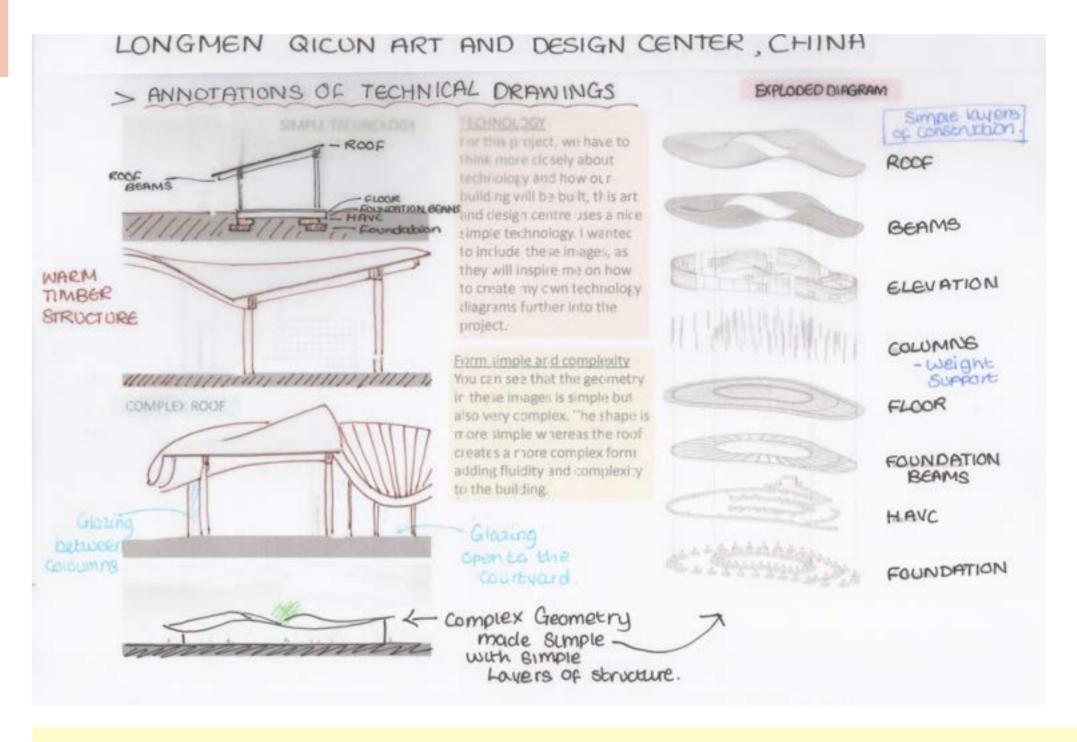
CONTEMPORY

AIRY

LIGHT

OPEN





#### OTHER ART AND COMMUNITY CENTRES

#### Gregson community and arts centre Lancaster

The Gregson art and community centre is a charity-run organization that runs a creative support program. The centre has plenty of spaces, rooms, and facilities to hire. Such as:

- 1 A har/ café
- 2. The main hall, which includes flexible furniture, lighting technology for shows, events, dances etc...
- 3. The secret cinema 25 seater small cinema, old school cinema that can be hired.
- 4. The olive bar and meeting room includes a bar, a small stage, and space that can hold a small function to just a couple of tables to hold a meeting.

These spaces can be hired and used for various uses by the community such as events like dance classes, salsa, and chess clubs.

# Creative support Programme Cating all painters, dathears, written, molecular, theather makes, and date support and free sup

#### Nairn community and arts centre Scotland

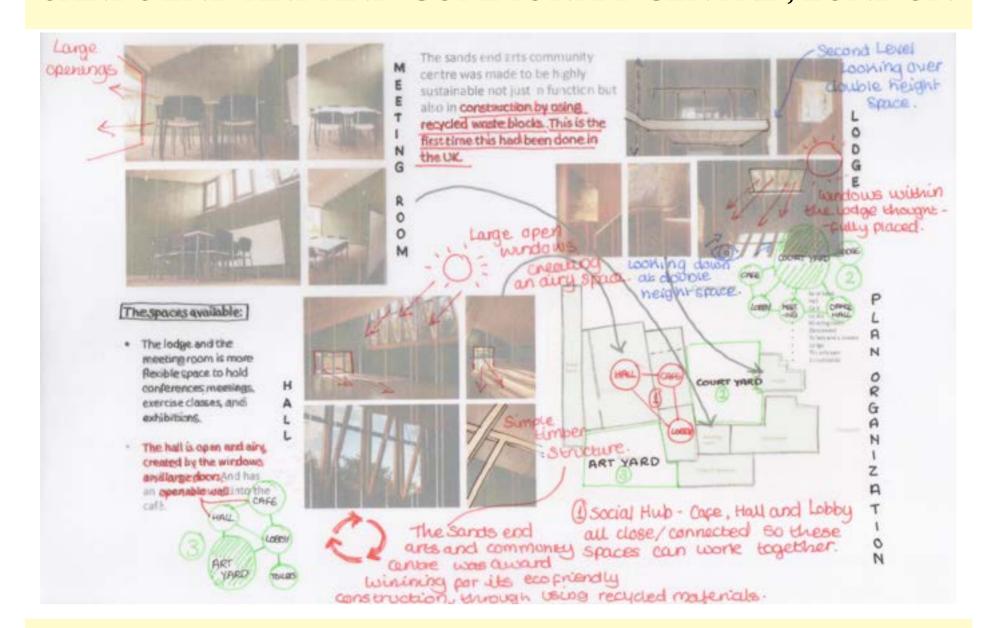
The Nairn community and arts centre in Scotland includes an impressive amount of facilities and spaces. The centre also has excellent transport links to the buses, and a short walk to the train station.

The centre includes facilities such as:

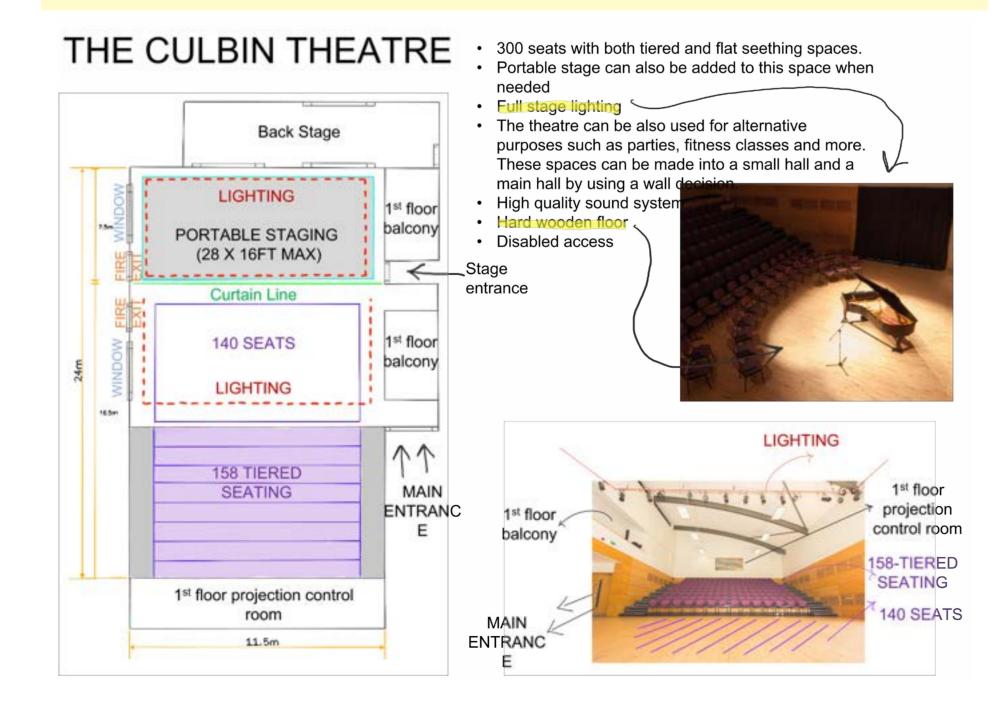
- 1. A theatre (the Culbin theatre)
- 2. A conference room (The Dava Room)
- 3. Multiuse space (The Dulsie room)
- 4. Small music room (The Drynachan room)
- 5. A youth café ( The Delnies room)

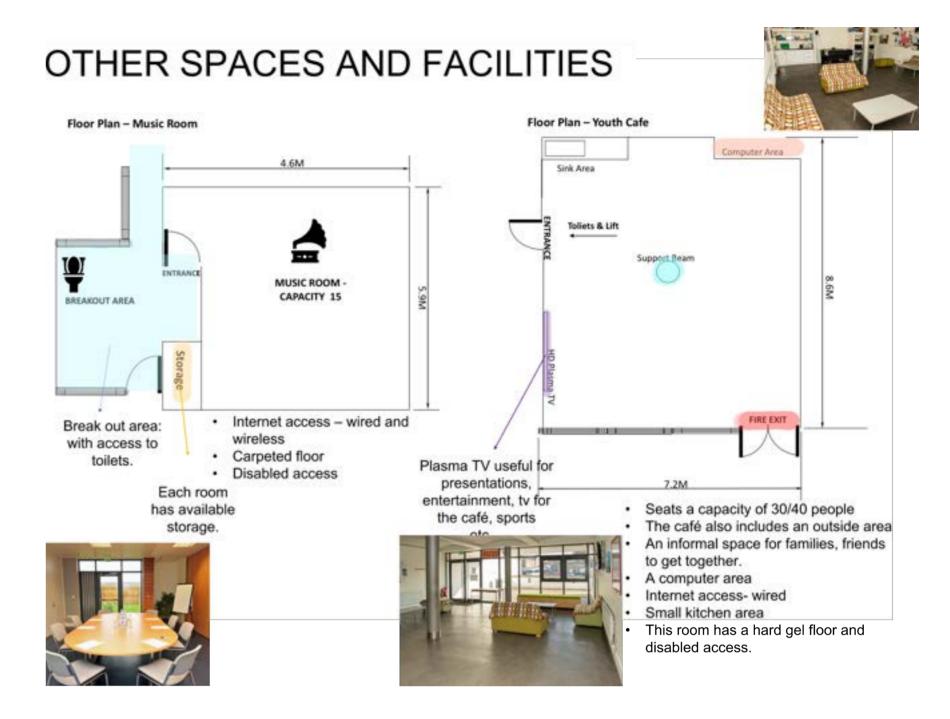


#### SANDS END ART AND COMMUNITY CENTRE, LONDON

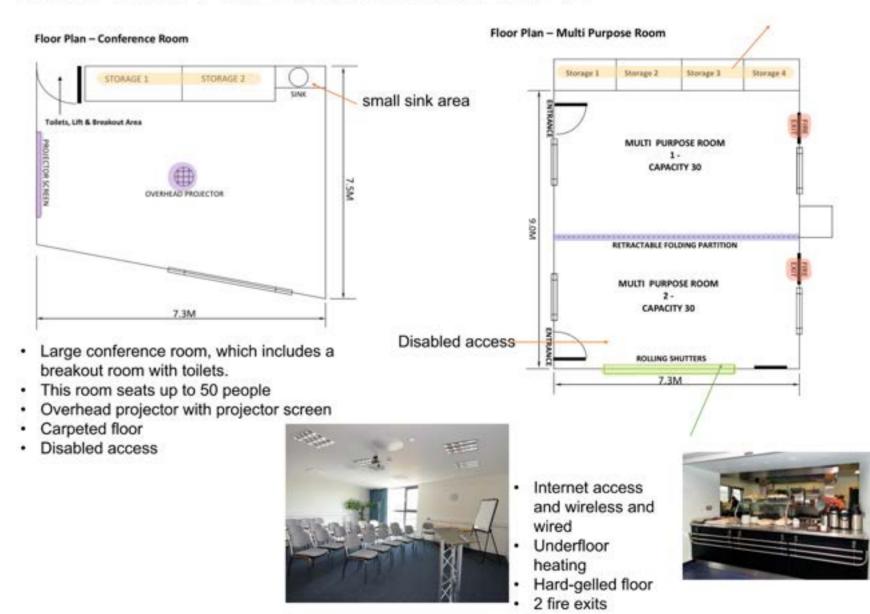


#### NAIRAN ART AND COMMUNITY CENTRE SCOTLAND





#### OTHER SPACES AND FACILITIES

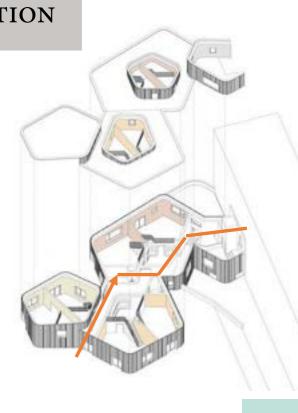


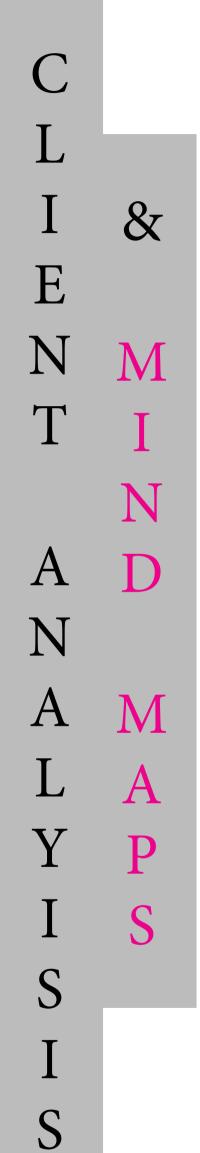


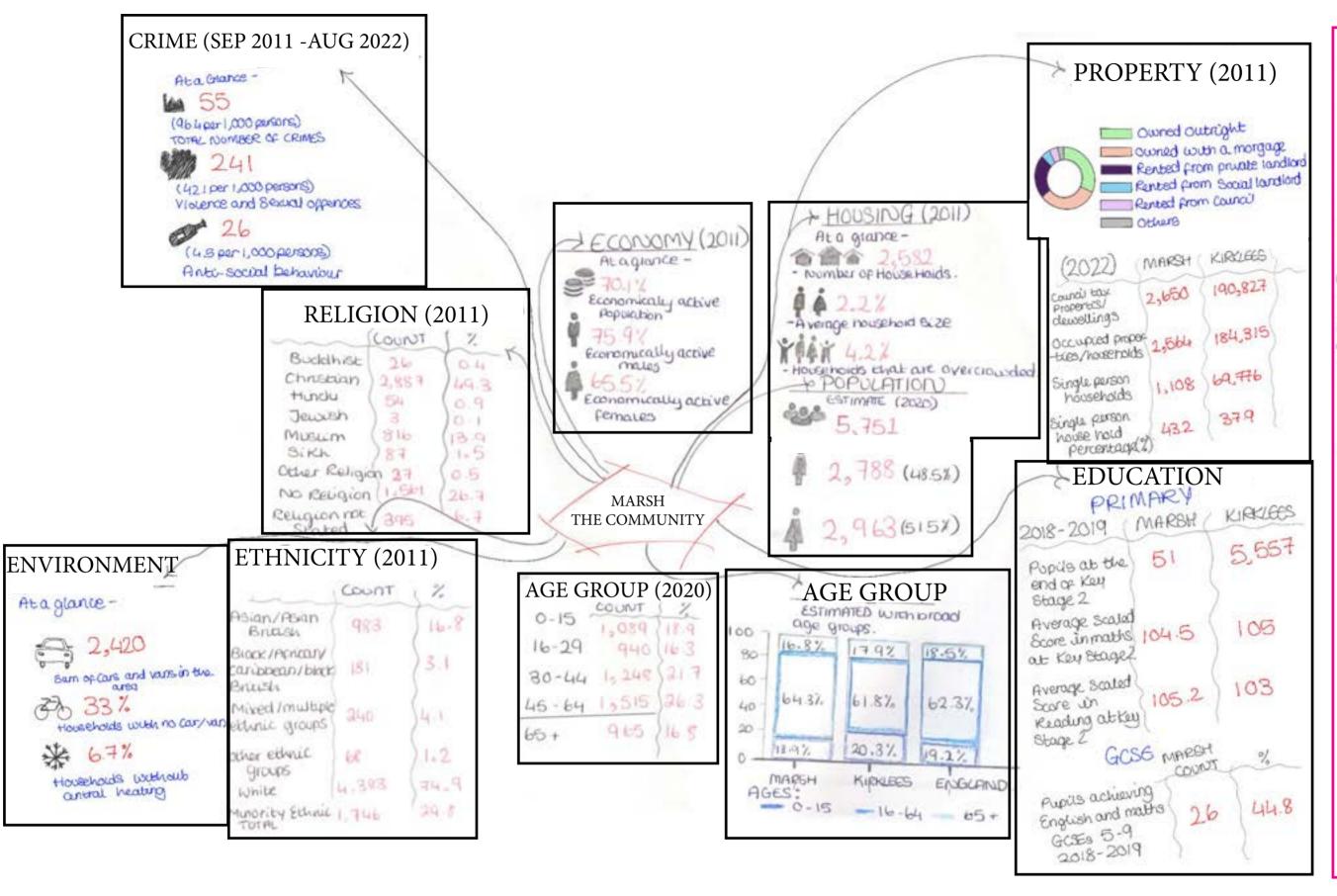


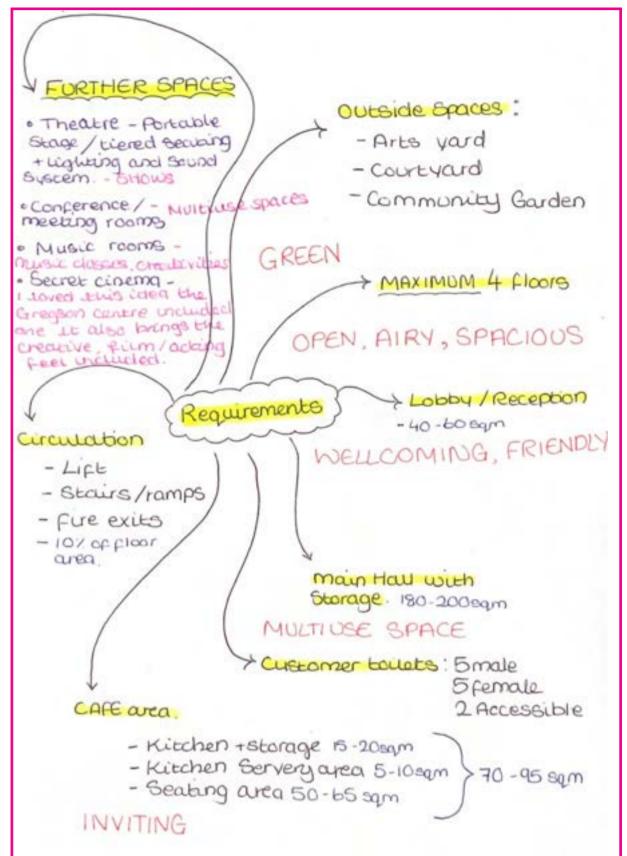


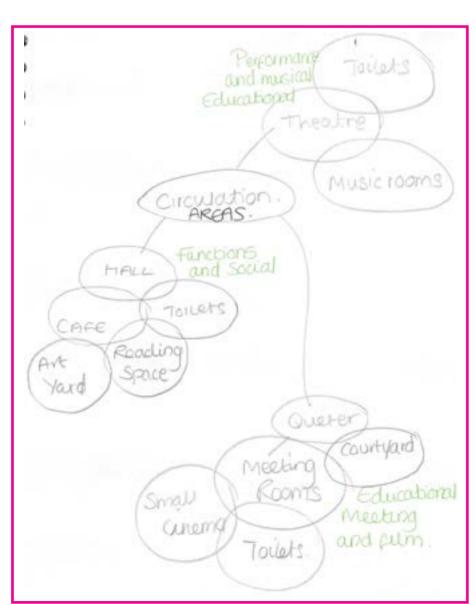








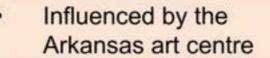


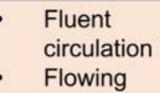






#### DESIGN IDEA (1)



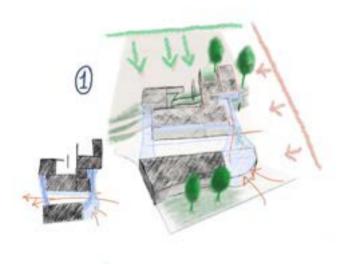


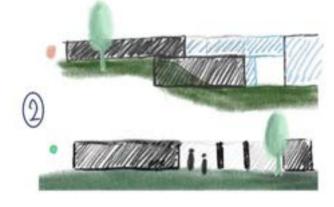


Pushed by complex geometry

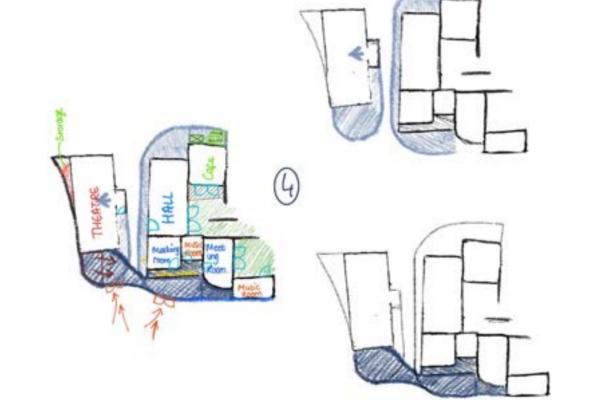


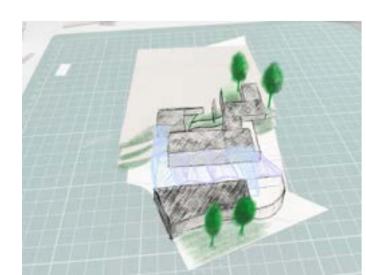


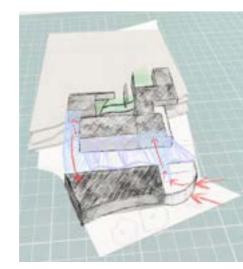


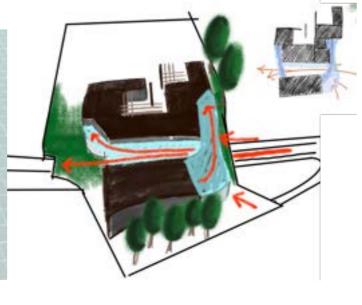


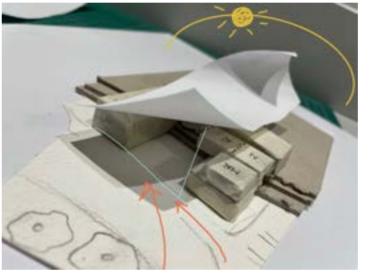


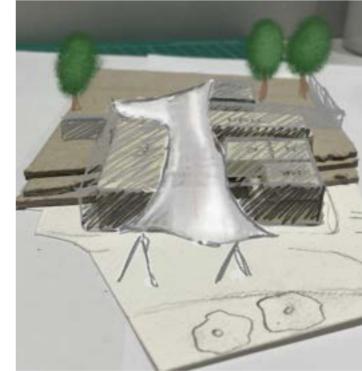


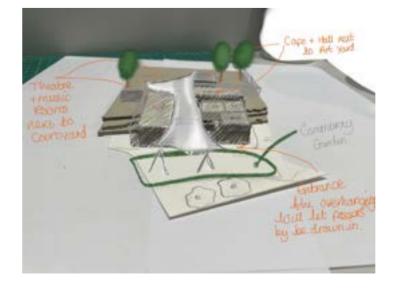




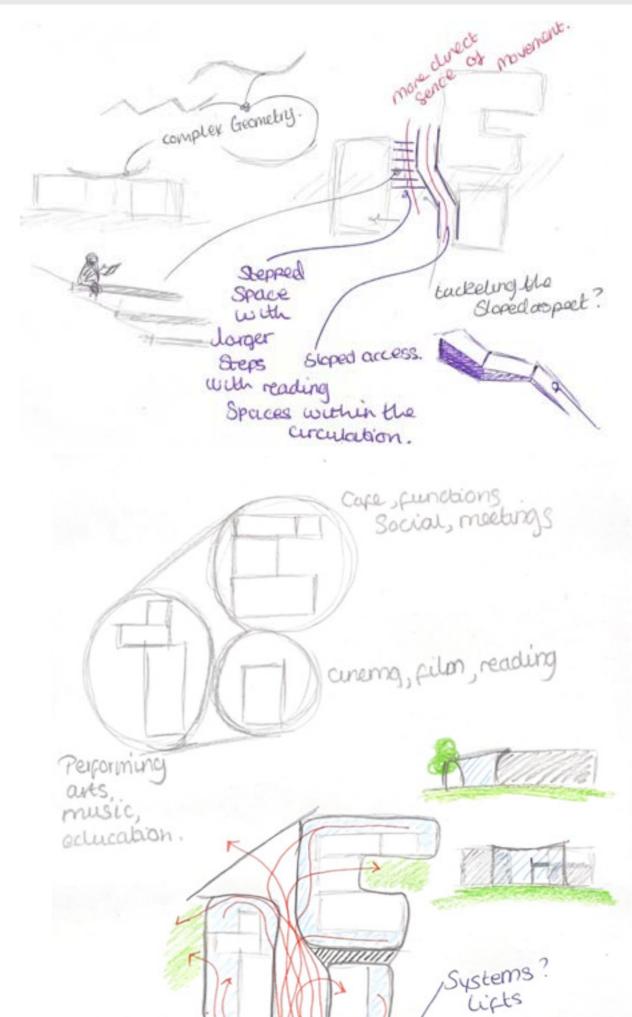




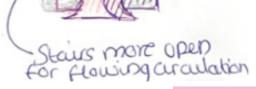








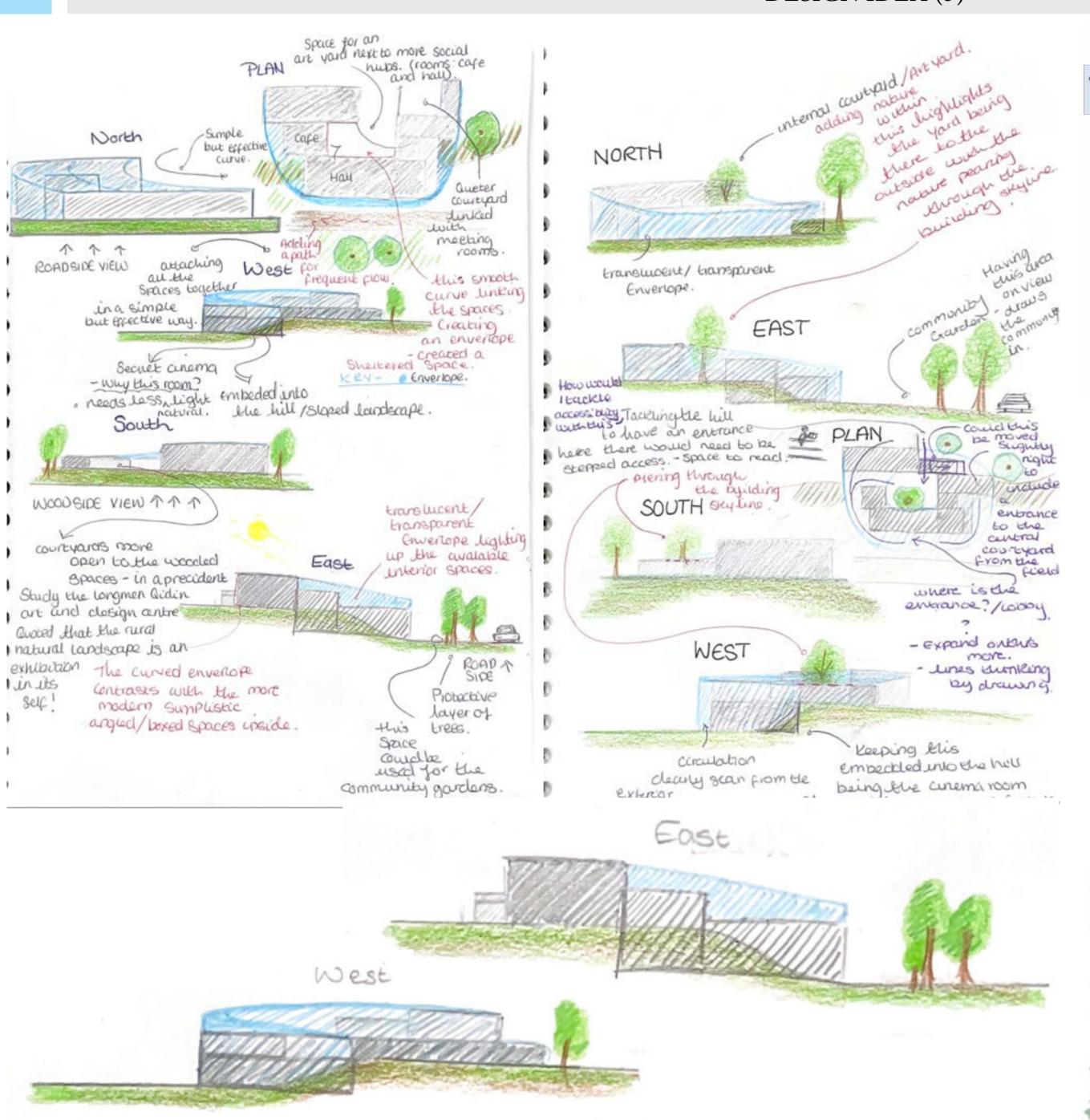




Single height

Second Floor?.

#### DESIGN IDEA (3)



CONCEPT (2)

 Letting the outside see

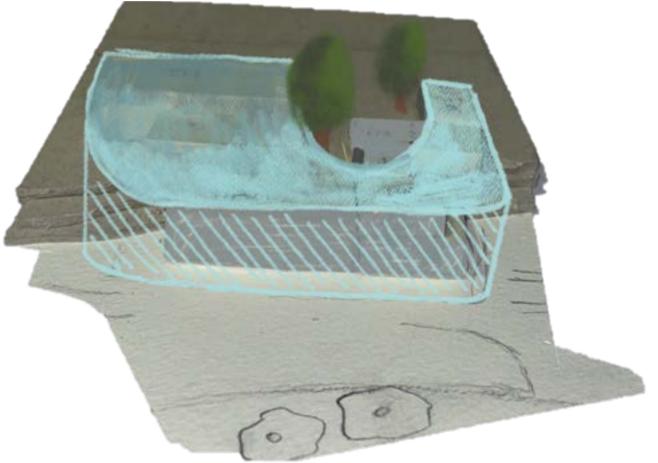
This design focuses on showing the community the rooms and facilities available, with this design I am planning to use a transparent/translucent envelope so the building can show off the interior rooms.

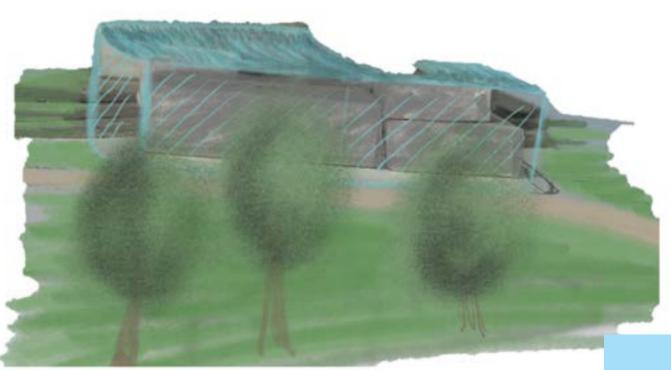
 Enveloping transparent/ translucent façade.

For this design, I focused on arranging my chosen spaces in a sort of circular way. Then used the blue pencil to draw the added envelope on the building, creating circulation/ adding the circulation in a curved way.

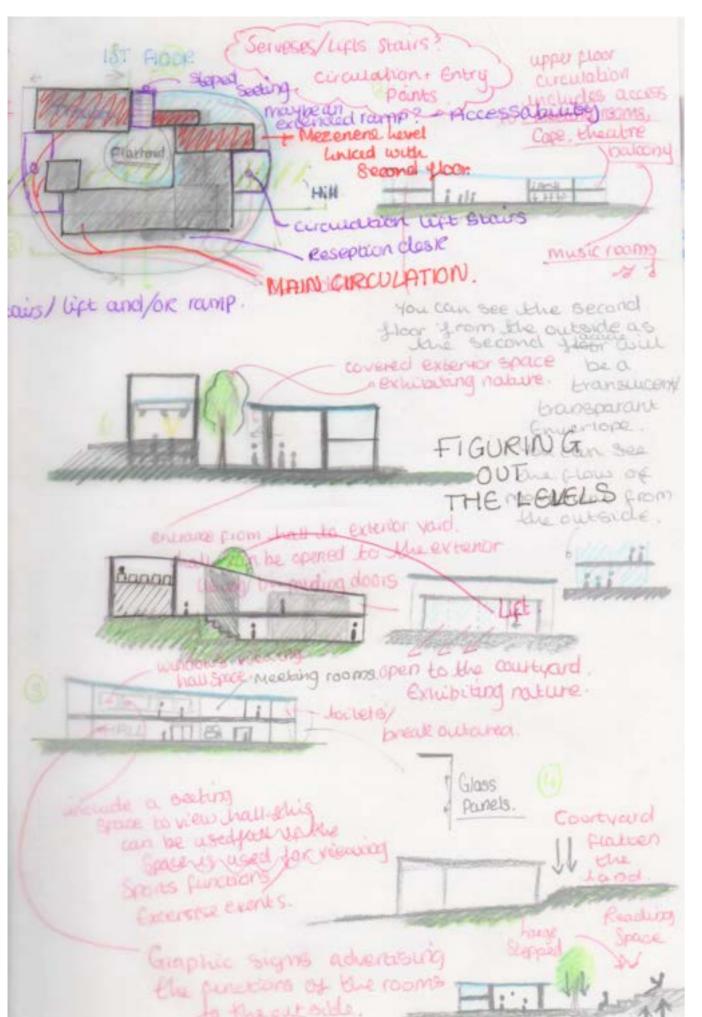
 Connectivity to nature and people

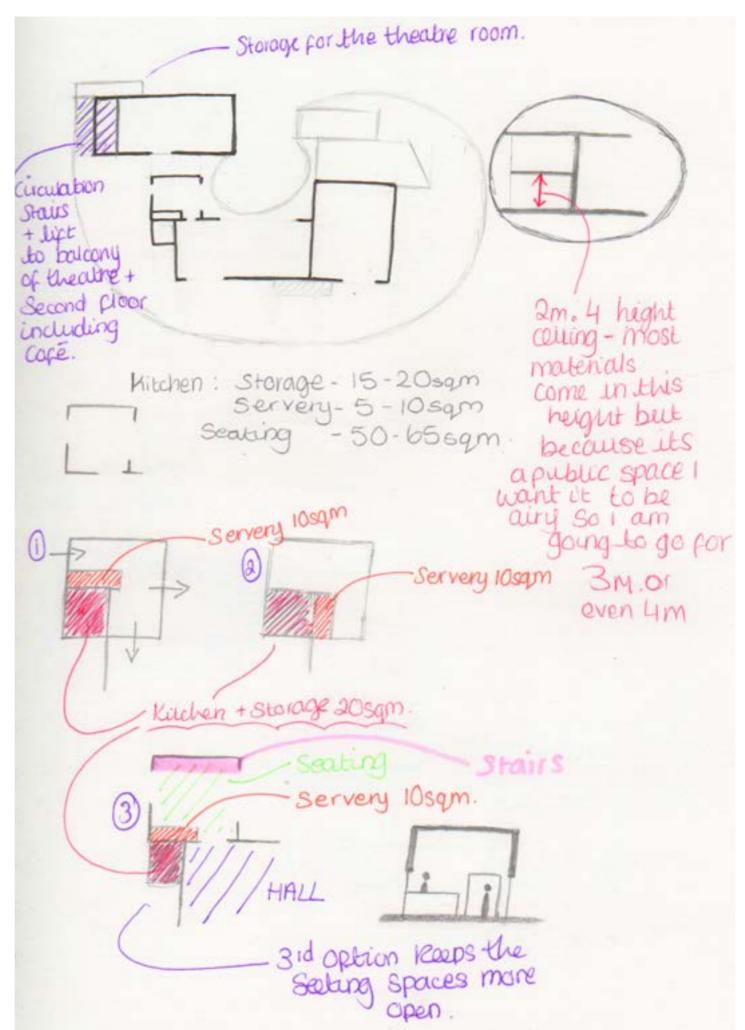
This idea/ conception is all about connecting the community with the interior spaces and the natural landscape around the site.

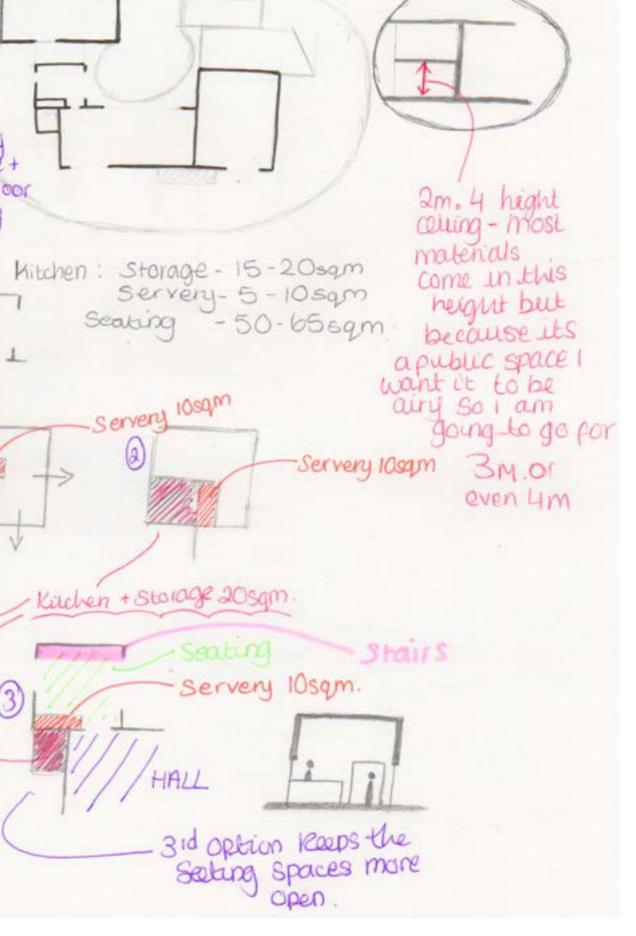




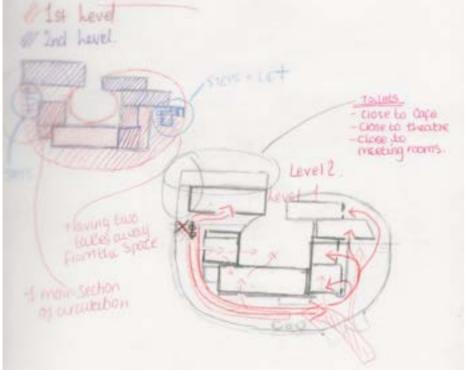
#### DESIGN IDEA (3) DESIGN DEVELOPMENT

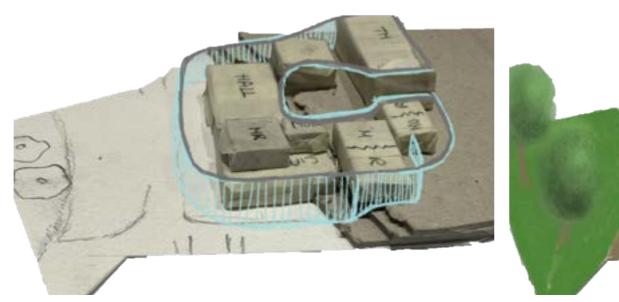






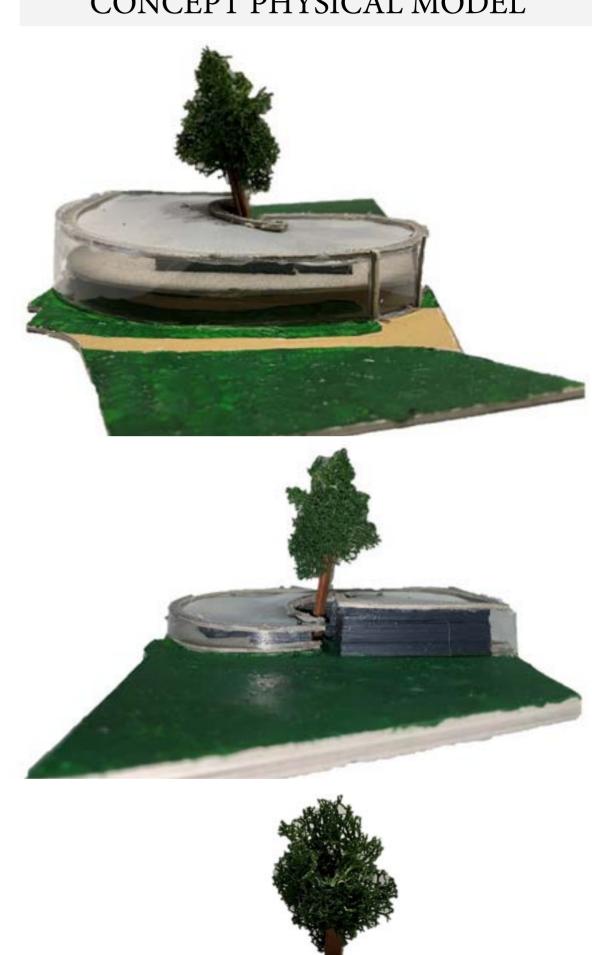
# SKETCHES OVER AN EARLY PHYSICAL MODEL







#### CONCEPT PHYSICAL MODEL

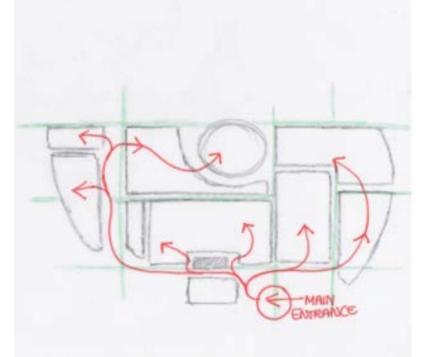


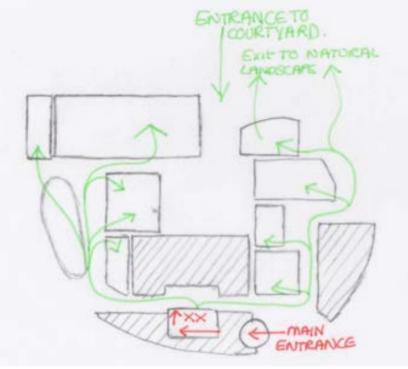


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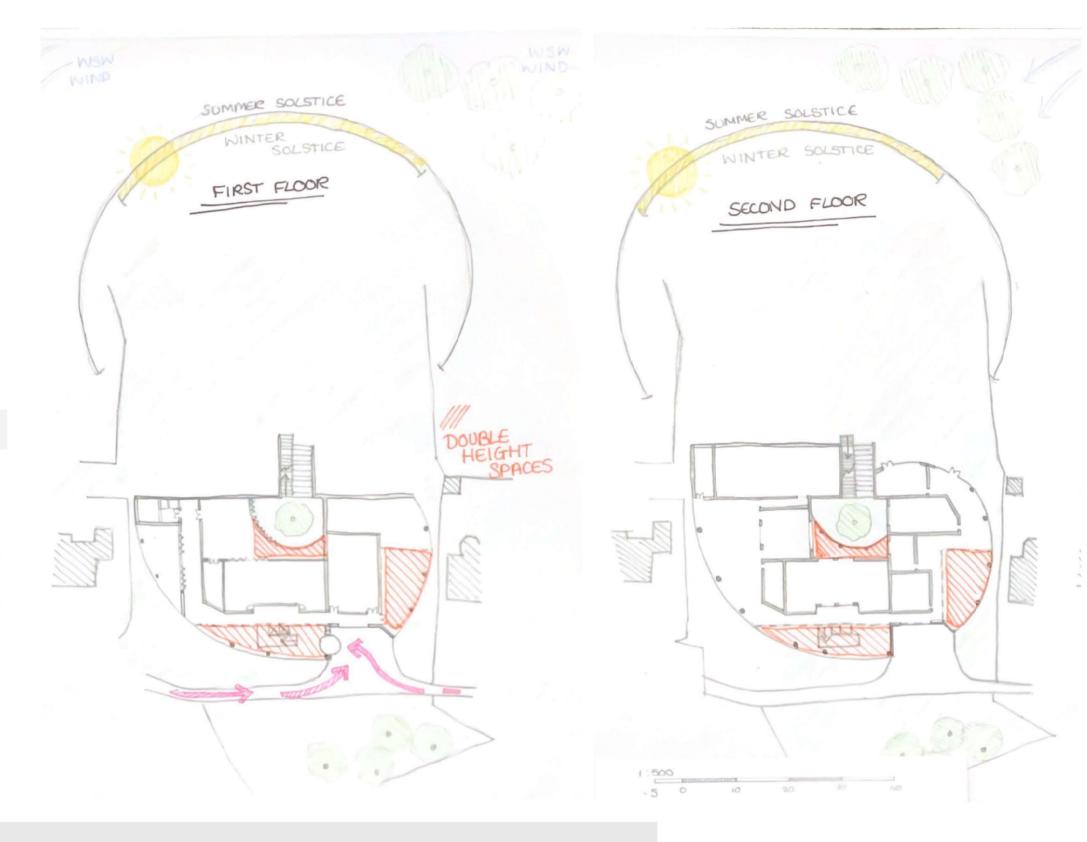
#### SKETCHY PLANS

#### CIRCULATION DIAGRAMS

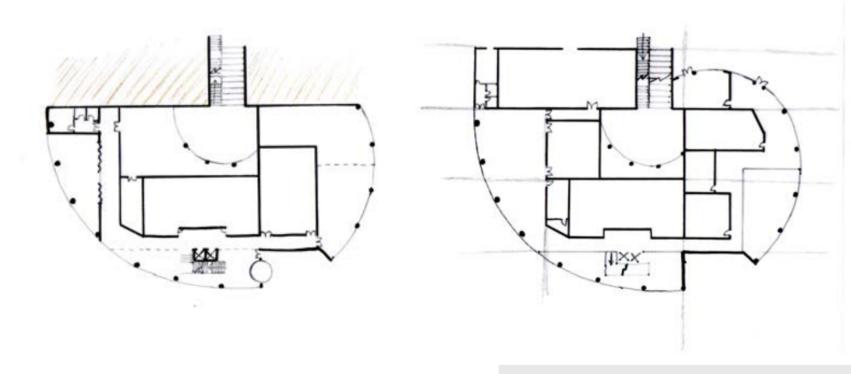




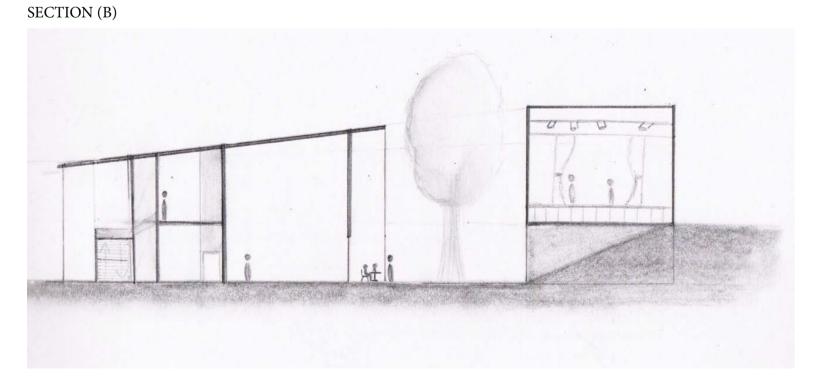
ANNOTATED PLAN DIAGRAMS



CONSTRUCTION DIAGRAMS



#### SKETCHY SECTION





#### DEVELOPING SKETCHY PLANS

#### LEVEL (1) BEFORE CHANGES



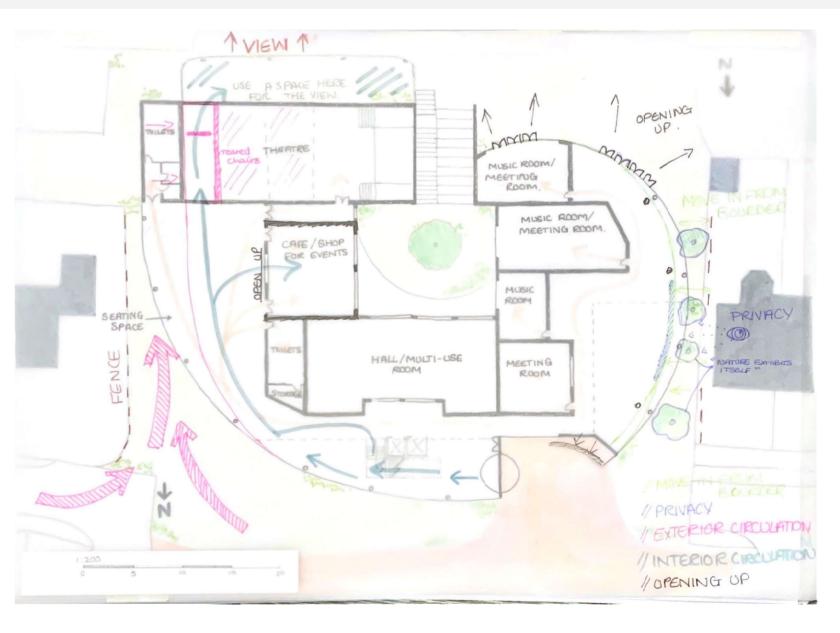


#### LEVEL (1) AFTER CHANGES



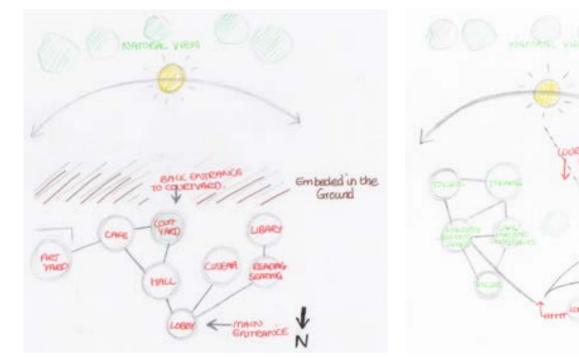
#### KEY CHANGES:

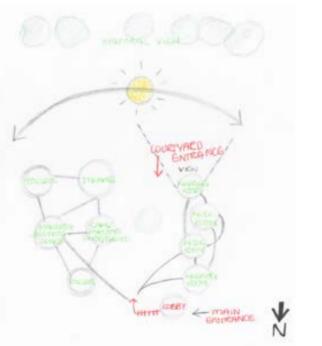
- 1. EXTERIOR CIRCULA-TION
- 2. NATURAL VIEW ON THE SOUTH SIDE
  - 3. PRIVACY
- 4. INTERIOR CIRCULA-TION
- 5. INTERIOR CONNECTIVITY



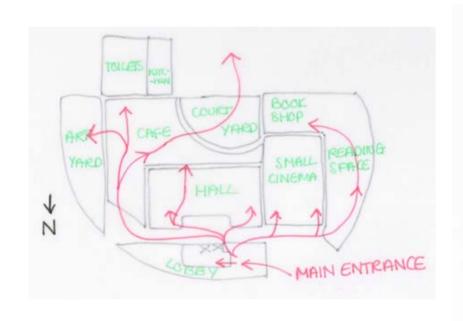
#### IMPROVED SKETCHY PLANS

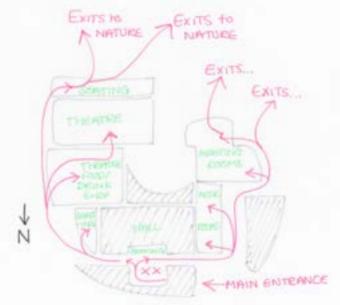
#### ORGANISATION DIAGRAMS



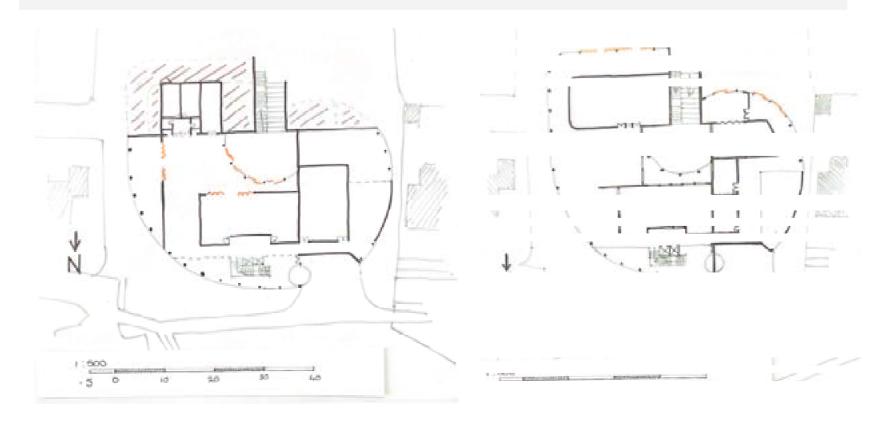


#### CIRCULATION DIAGRAMS

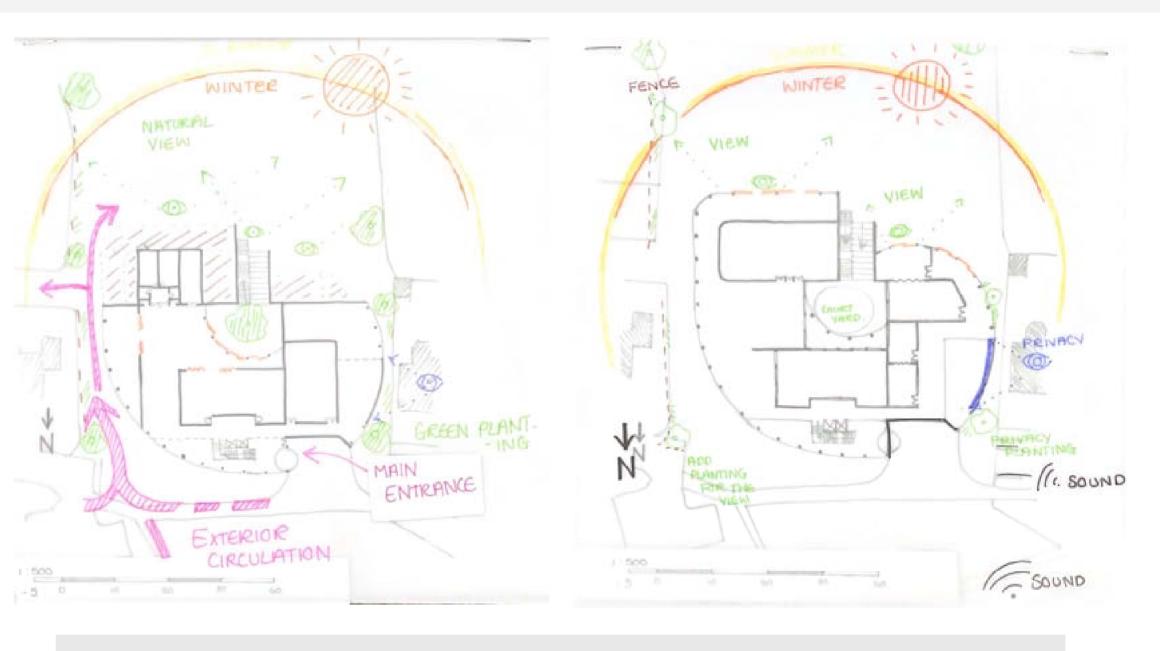




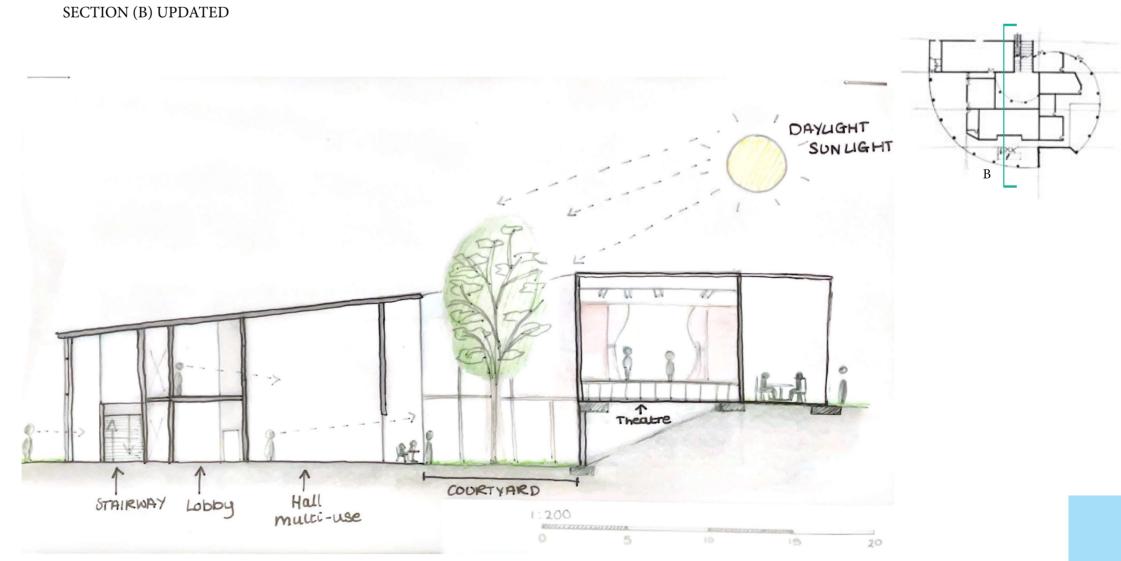
#### **CONSTRUCTION DIAGRAMS**



#### ANNOTATED PLAN DIAGRAMS

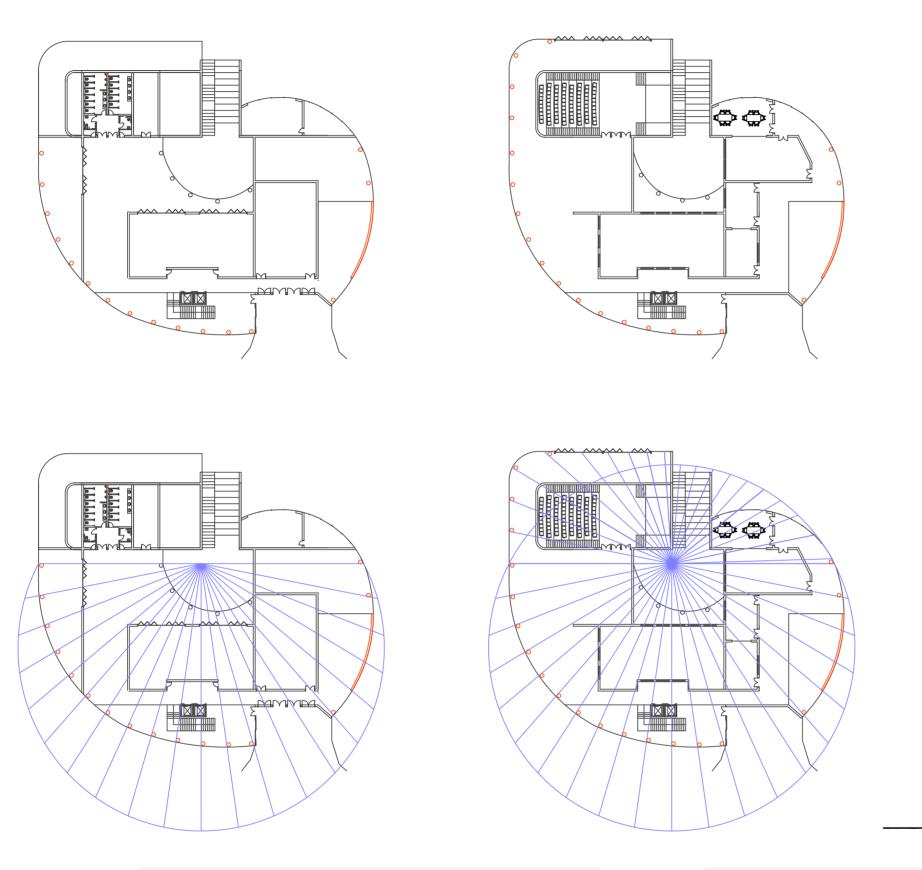


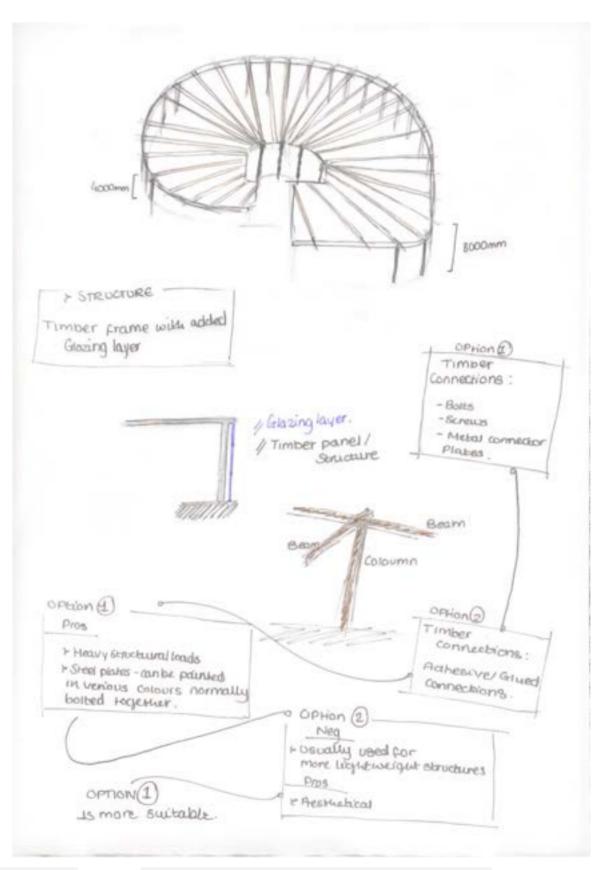
#### SKETCHY UPDATED SECTION



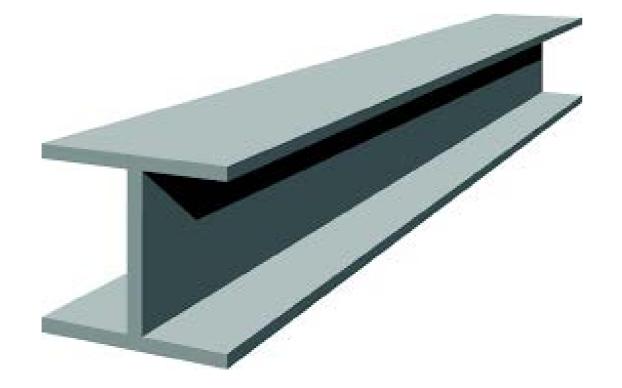
#### TECHNOLOGY ELEMENTS

#### SKETCHES AND CAD DIAGRAMS





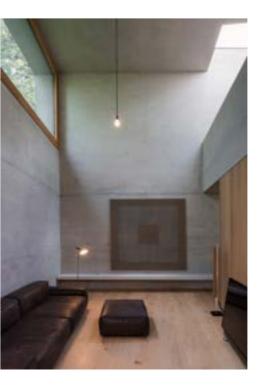
TIMBER CLADDED STEEL I COLUMNS



TIMBER COLUMNS AND LARGE GLAZING



CONCRETE WALLS

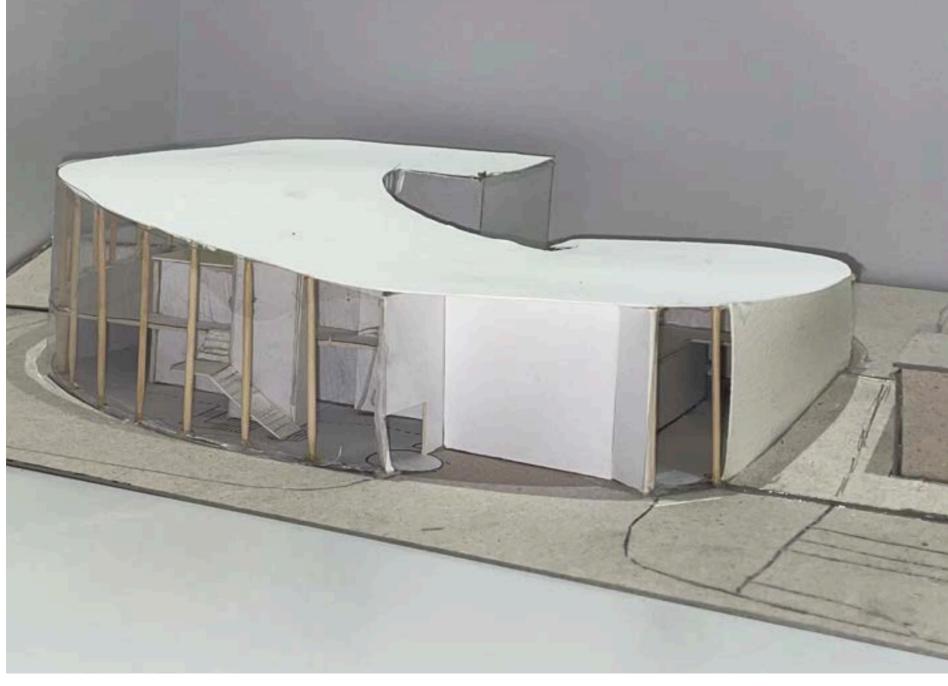


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#### TECHNOLOGY ELEMENTS

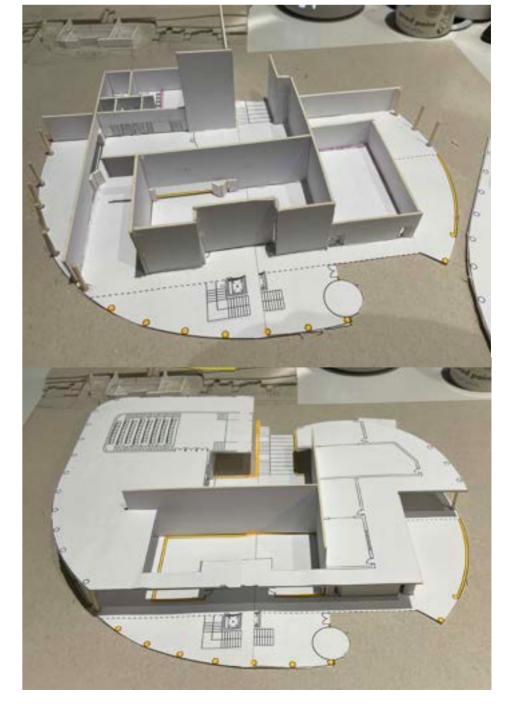
#### MORE DETAILED CONCEPT MODEL 1:200



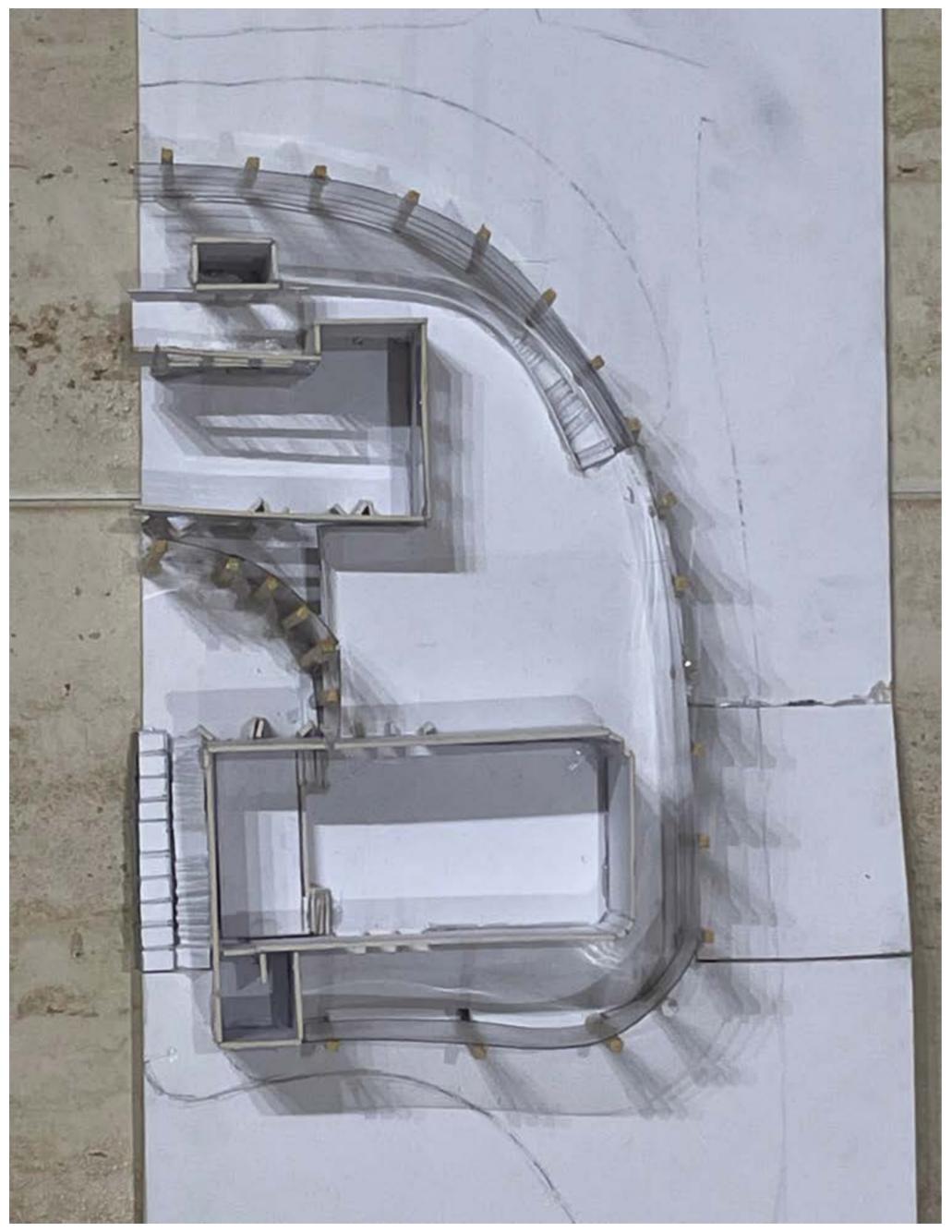








#### CONSTRUCTING NEW PHYSICAL MODEL

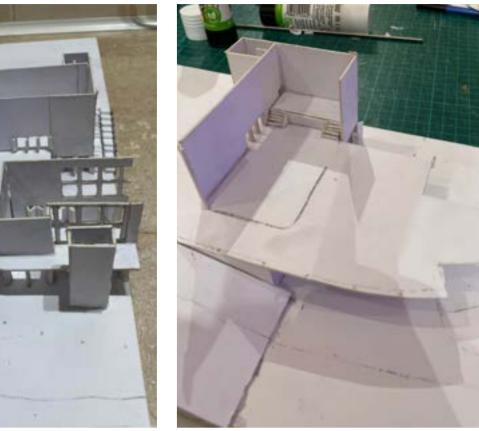


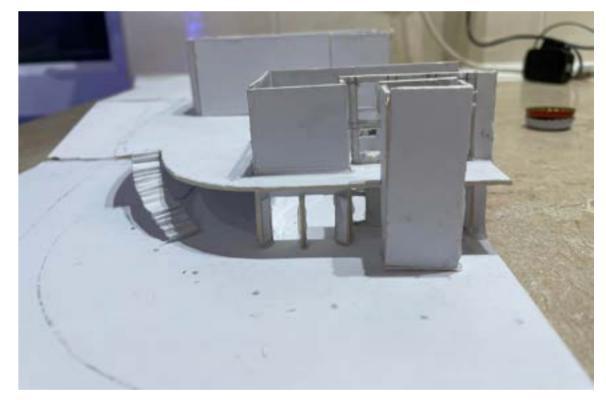






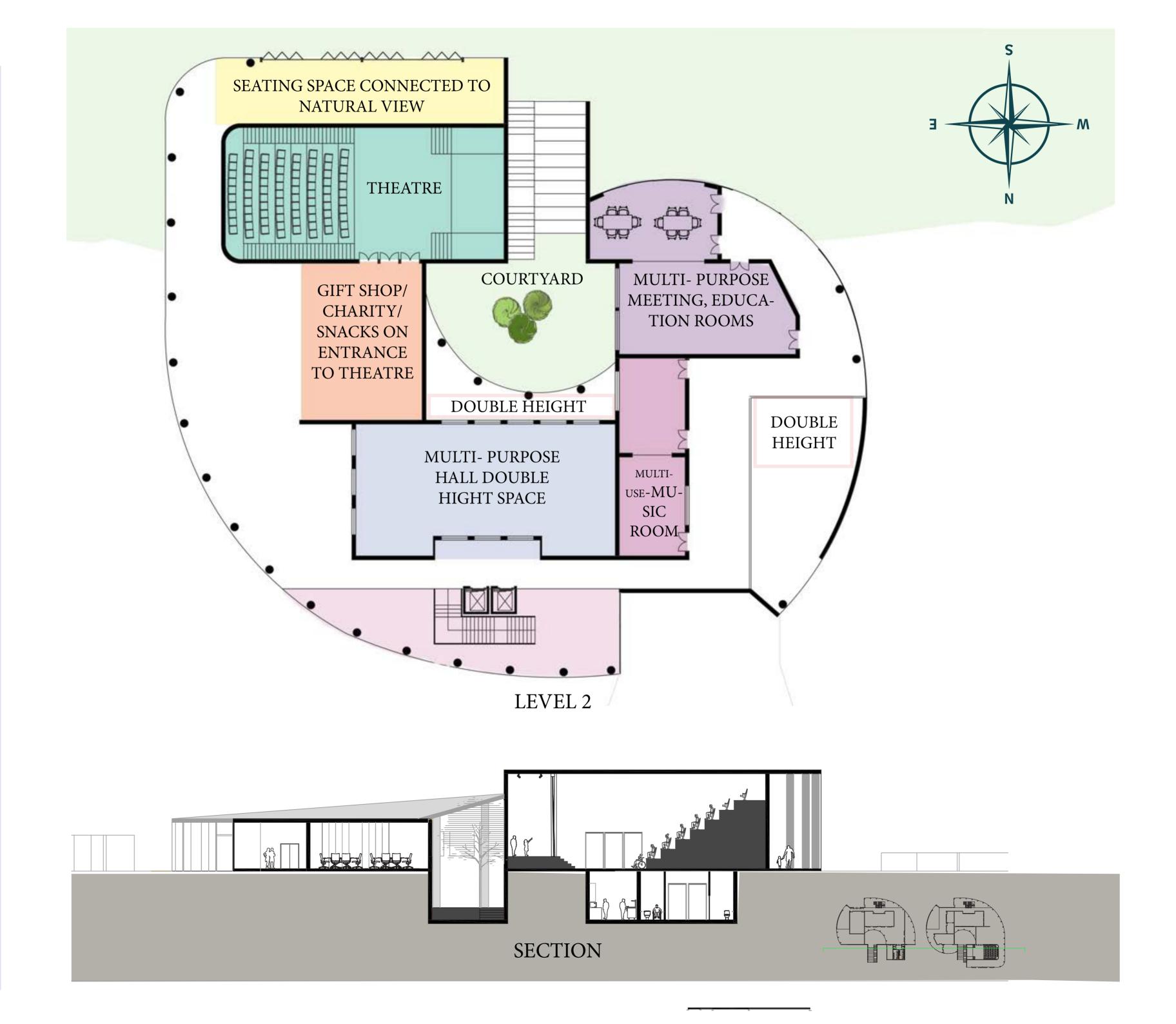








F R S P A N E T A N D F S E R A O W N S N G





F R S E R A W N G

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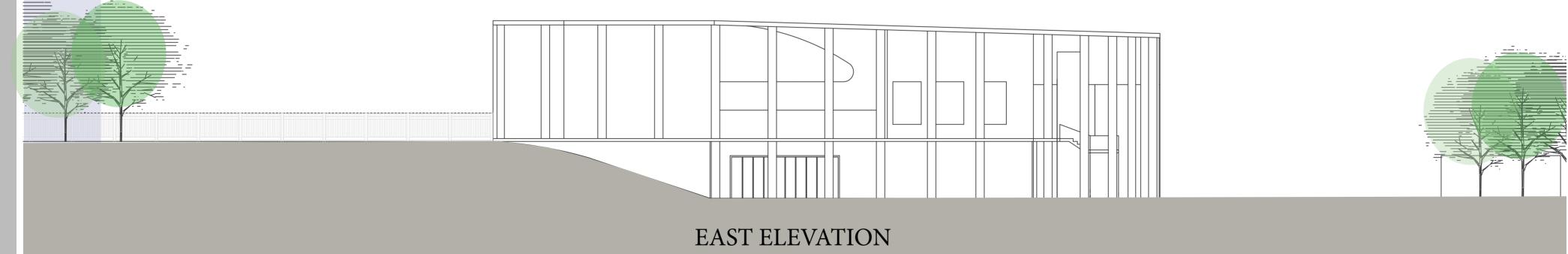
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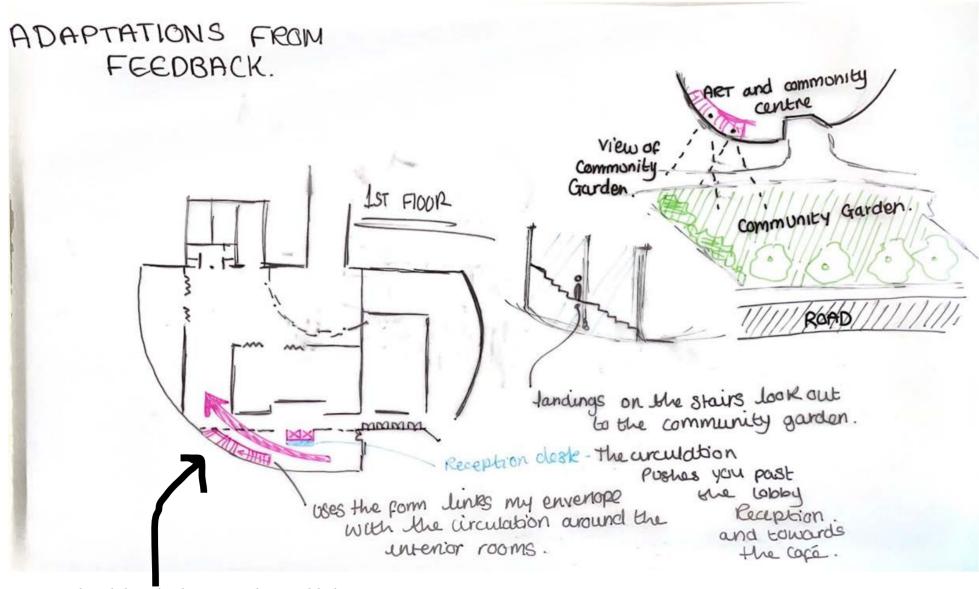
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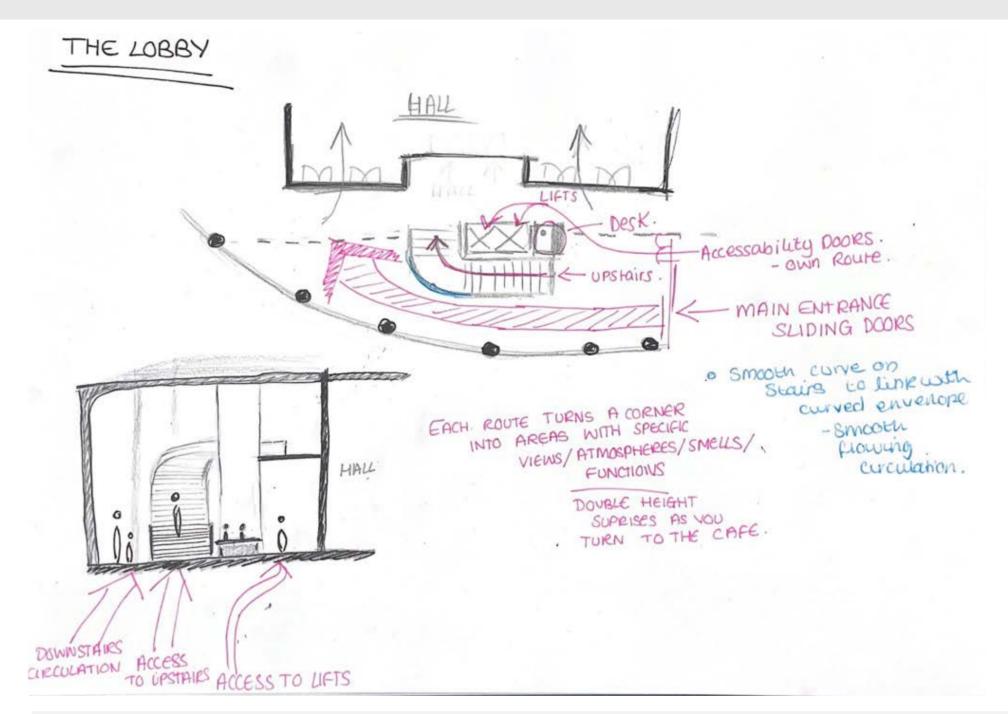
#### WORKING ON PRESENTATION FEEDBACK

#### FEEDBACK POINTS:

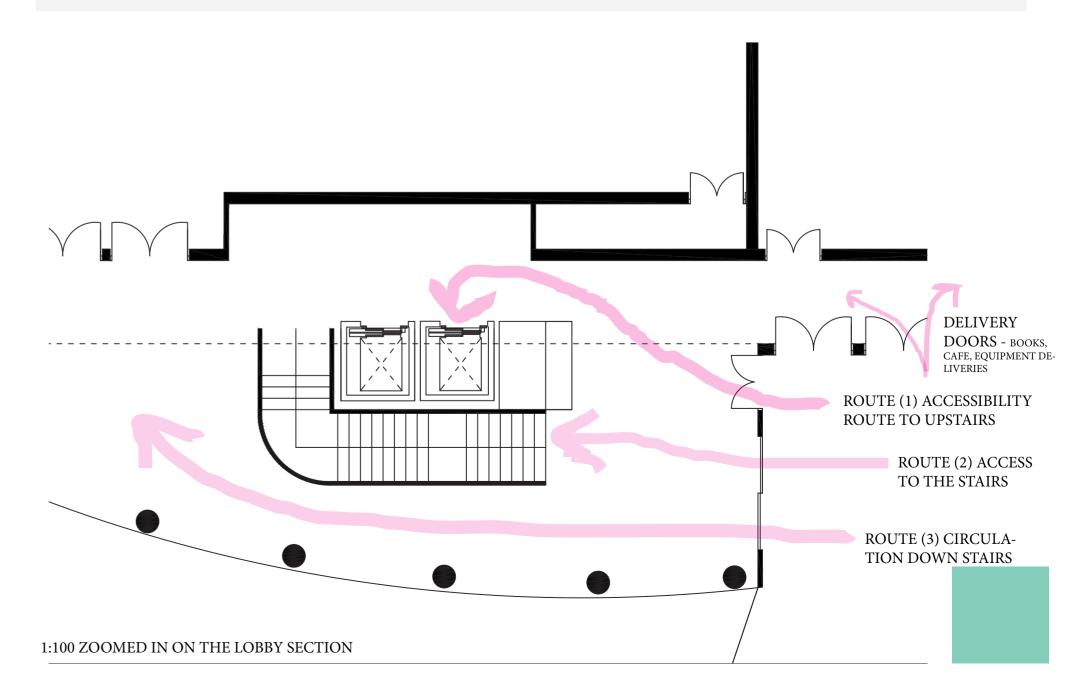
- Experiment with the interior, include sketchy visualisations.
- Include/ adapt the stairs to link with the enveloping architectural language.
  - Focus on my interior circulation from the circulation



I explored this idea however when I added it to auto-cad this created other issues in terms of circulation.

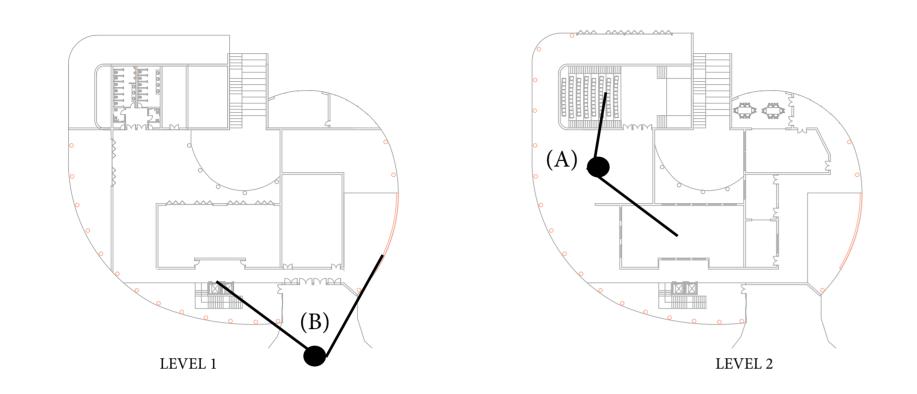


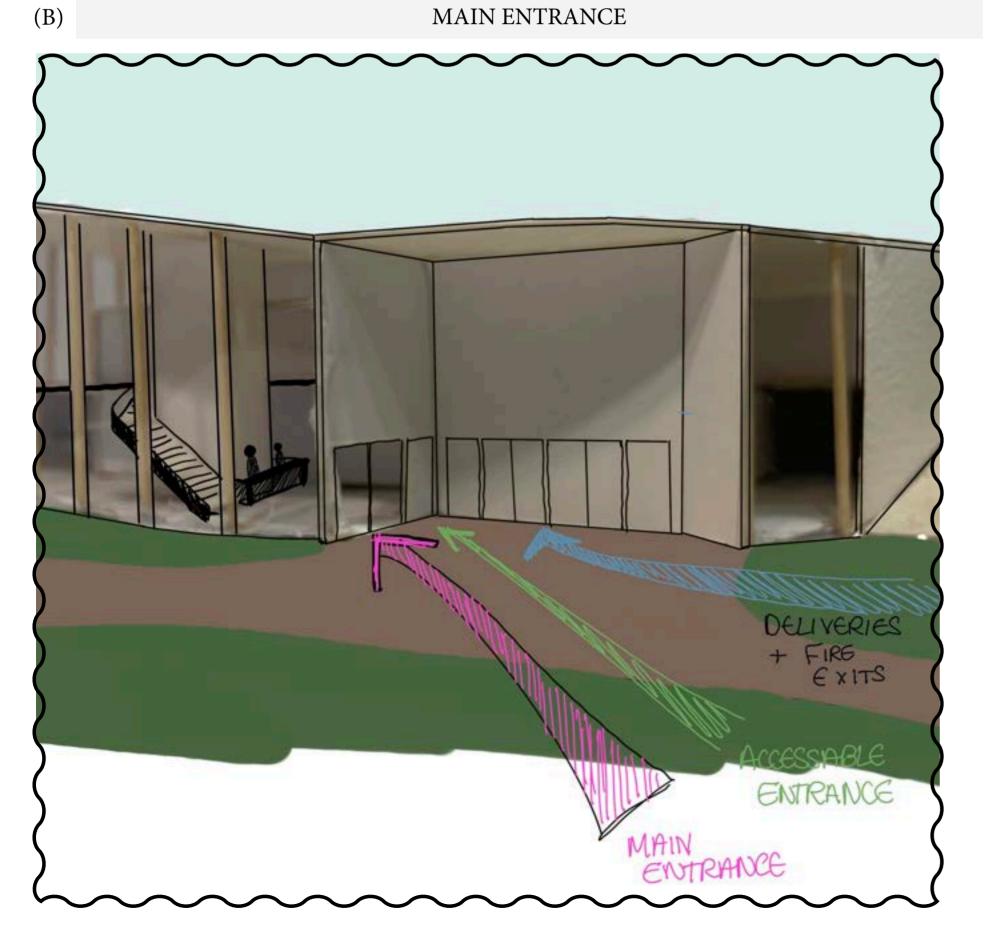
#### ADAPTING ALONGSIDE MY CAD PLAN

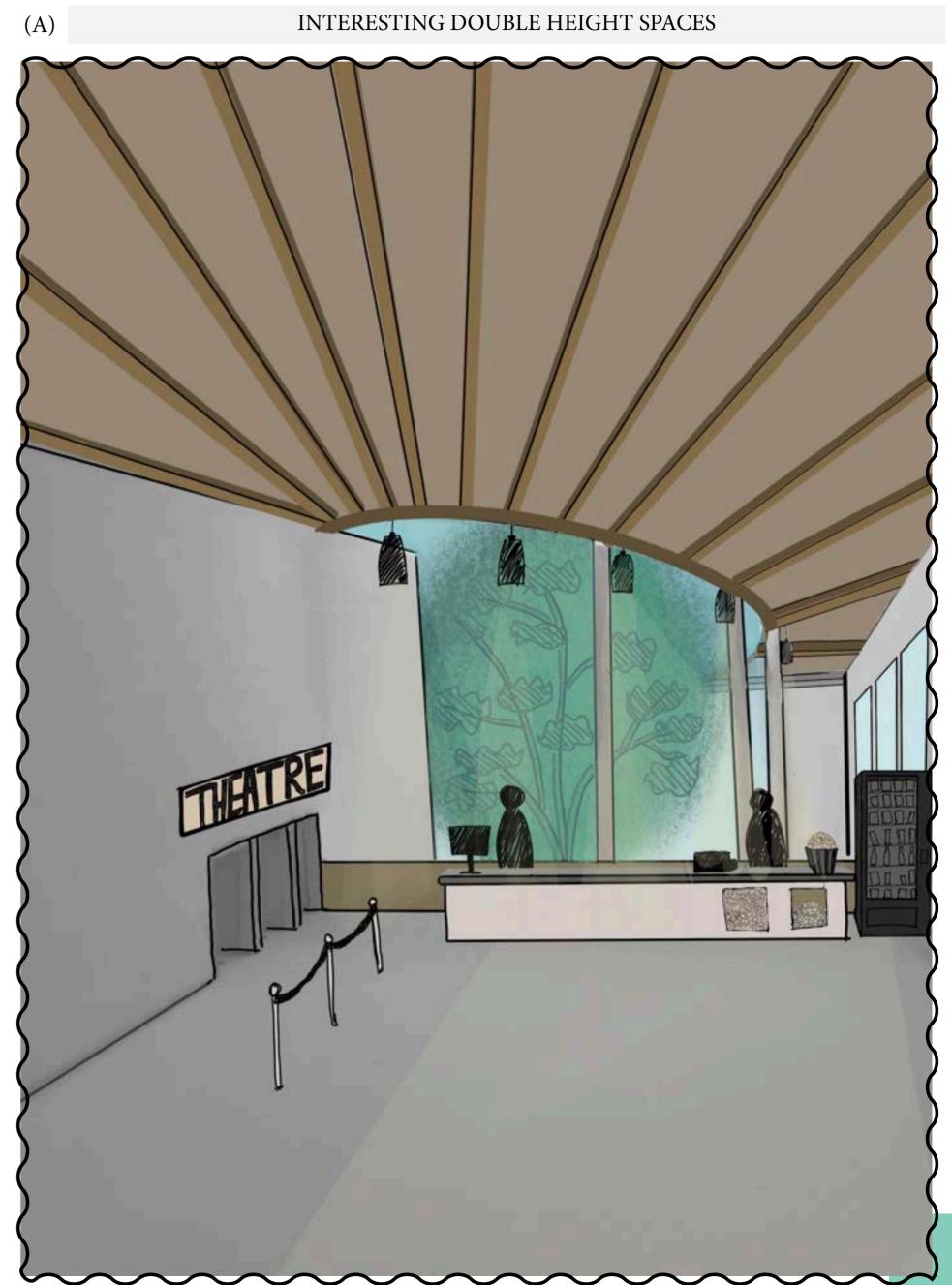


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#### CREATING SKETCHY INTERIOR VISUALS







# A R C H I T E C T U R E



# PORTFOLIO

ART AND COMMUNITY CENTRE-FINAL PROJECT

#### AMY GALEA

T1A1840-2223 DESIGN STUDIO 3: PLACE AND ARCHITECTURE JAN 2023 O

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# ARTS AND COMMUNITY CENTRE – FINAL PROJECT



#### LOCATION PLAN

- 01. Location plan 1:2000 and other site maps
- 02. Site section 1:200

#### DESIGN STRATEGY PLAN

03. Ground floor plan in context 1:500

#### CONTEXT PLAN

04. Roof plan in context 1:500

#### **PLANS**

- 05. Ground floor 1:200
- 06 First floor1:200

#### **SECTIONS**

07. Sections

#### **ELEVATIONS**

- 08. North and South Elevations 1:200
- 09. East and West Elevations 1:200
- 10. Photo-shopped N&S Elevation 1:200
- 11. Photo-shopped E&W Elevation 1:200

#### PHYSICAL MODEL

- 12. Physical model
- 13. Birds eye view visual
- 14. Courtyard visual
- 15. Interior visuals from physical model and hand sketching

#### POST DESIGN ANALYSIS

- 16. Concept overview (connectivity)
- 17. Responce to context
- 18. Connection
- 19. Exterior circulation
- 20. Double height spaces
- 21. Interior organisation
- 22. Interior circualtion
- 23. Accessability, fire routes

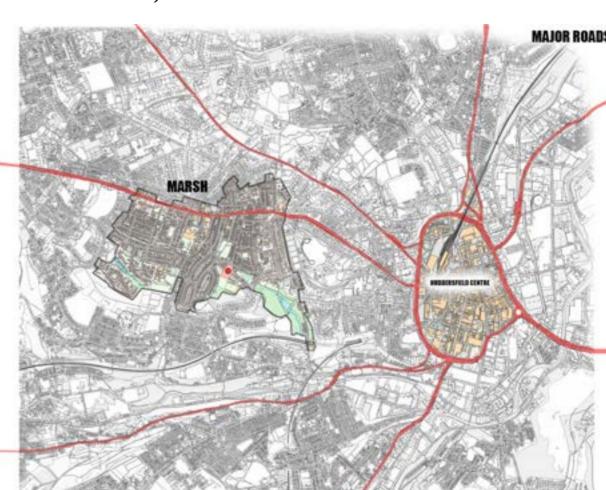
#### TECHNOLOGY ASPECT

- 24. Material choices
- 25-27: Technology analysis including 1:20 details

#### SITE LOCATION 1:200



#### MAJOR ROADS AROUND MARSH



VEGETATION AROUND THE SITE

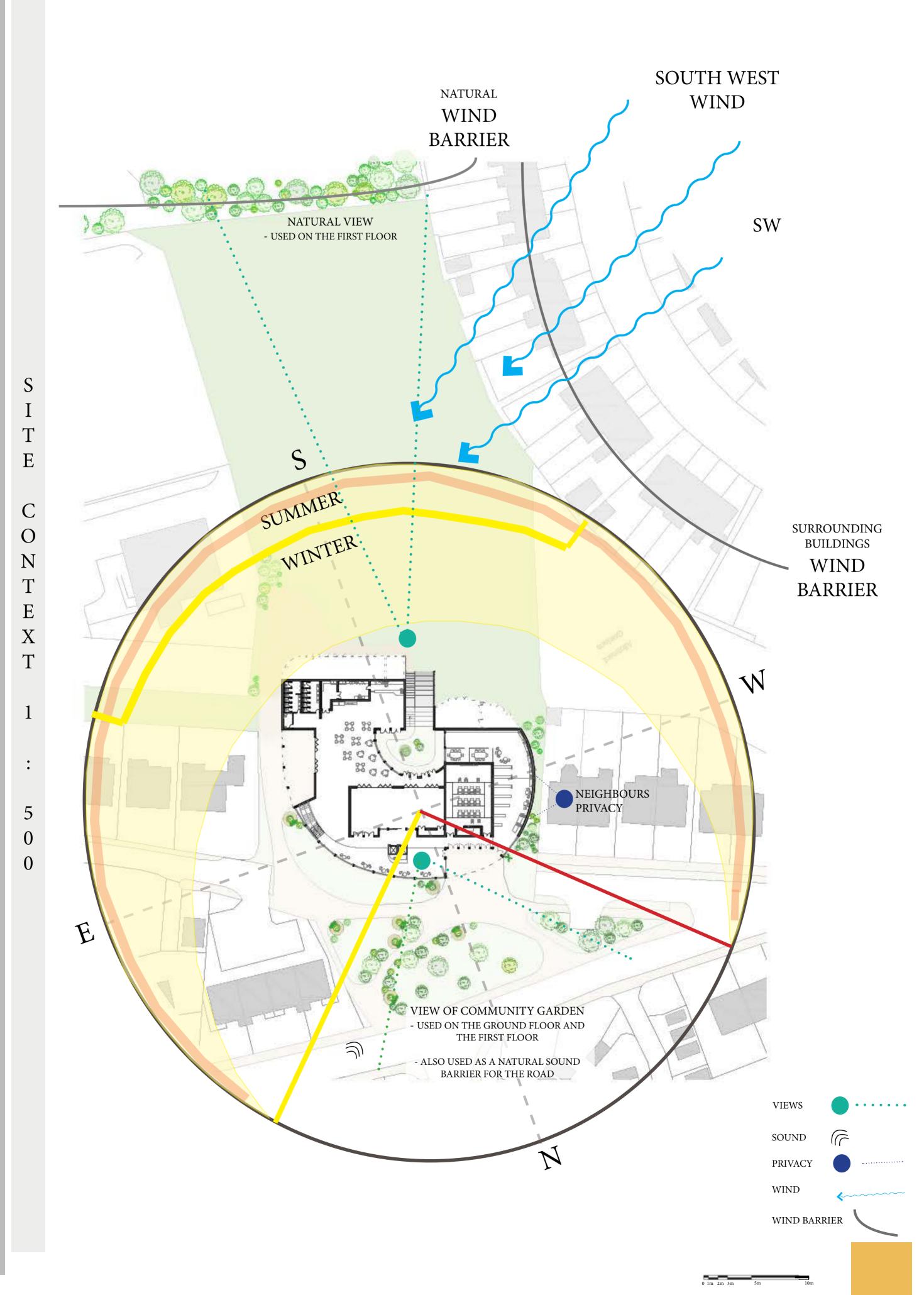


**BOUNDARY OF MARSH** 









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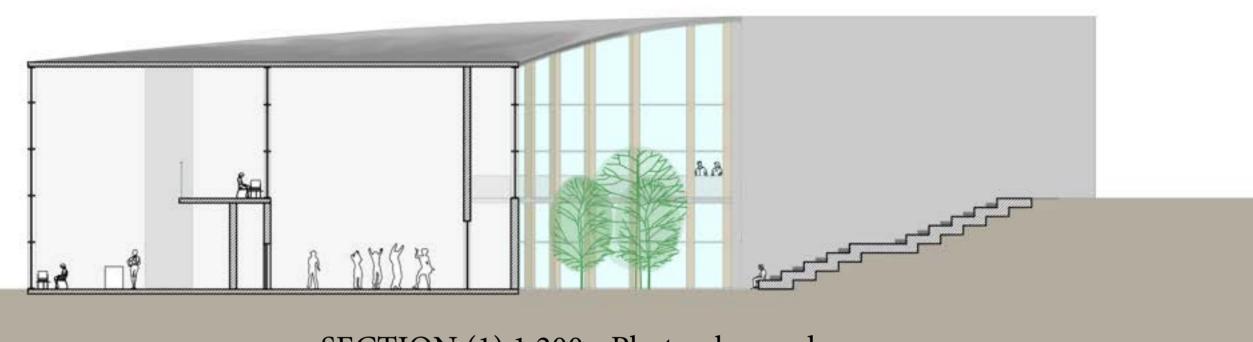
C O N T E X T

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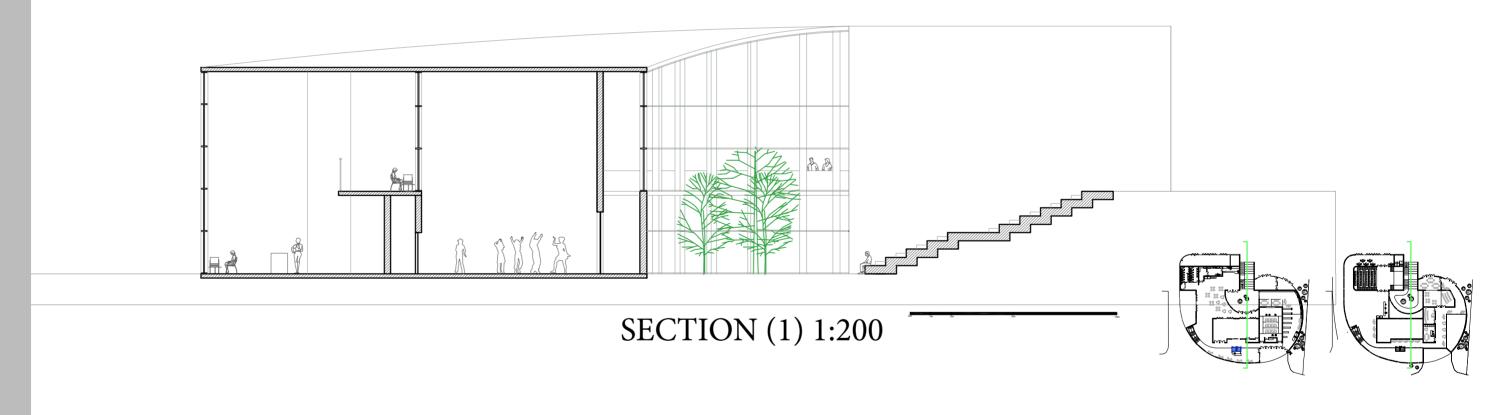
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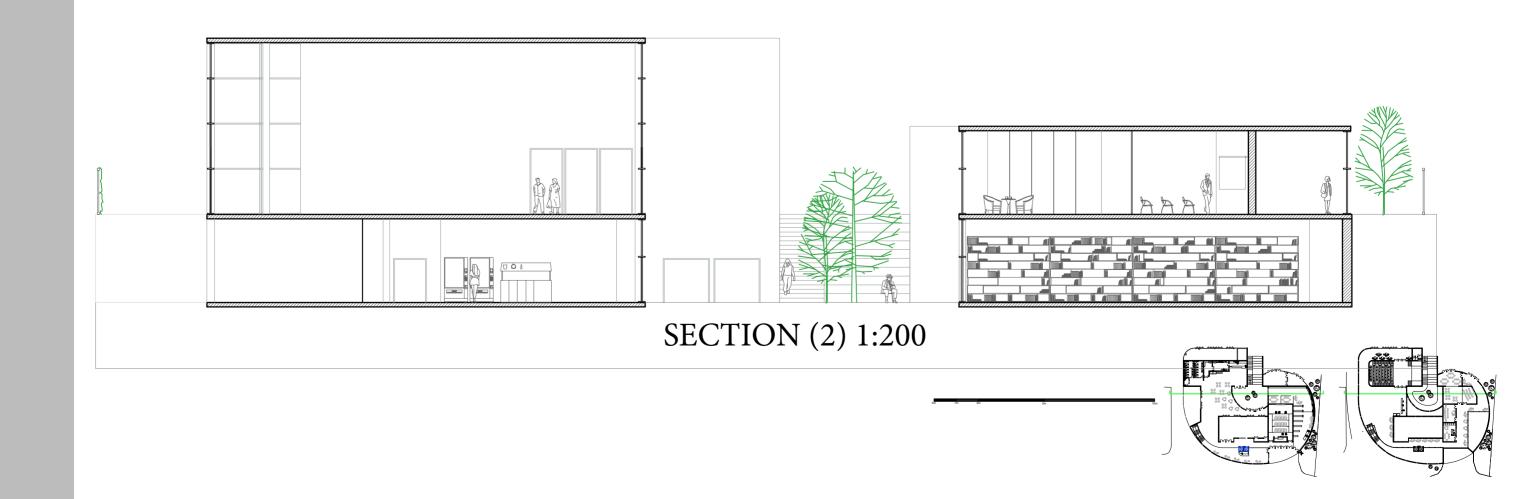


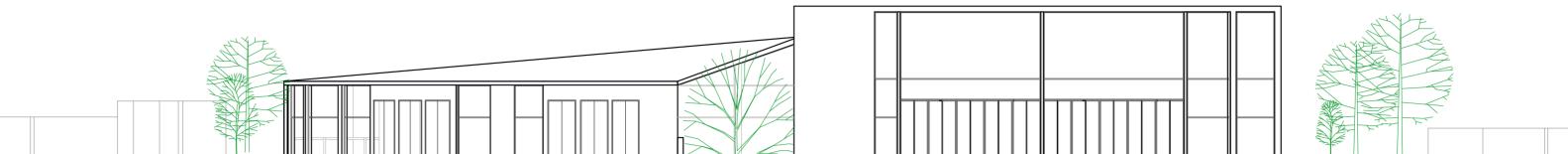
SECTION (1) 1:200 - Physical Model



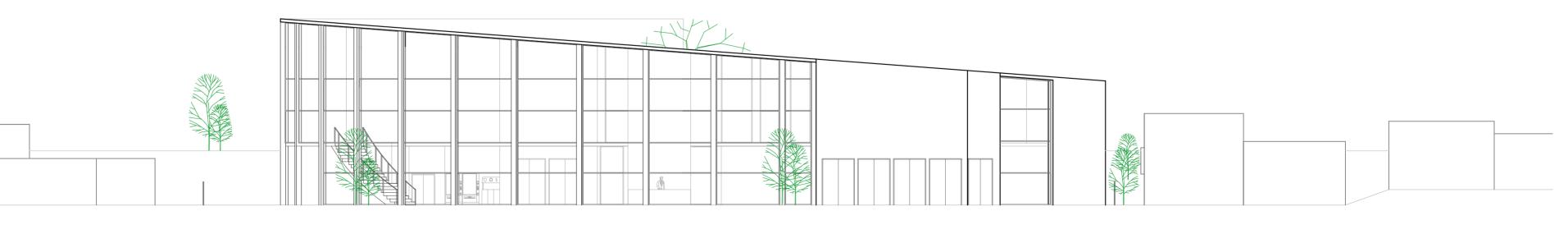
SECTION (1) 1:200 - Photo-shopped







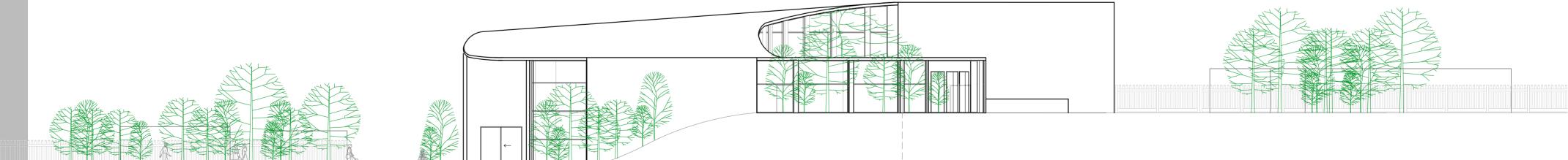
# SOUTH ELEVATION



NORTH ELEVATION



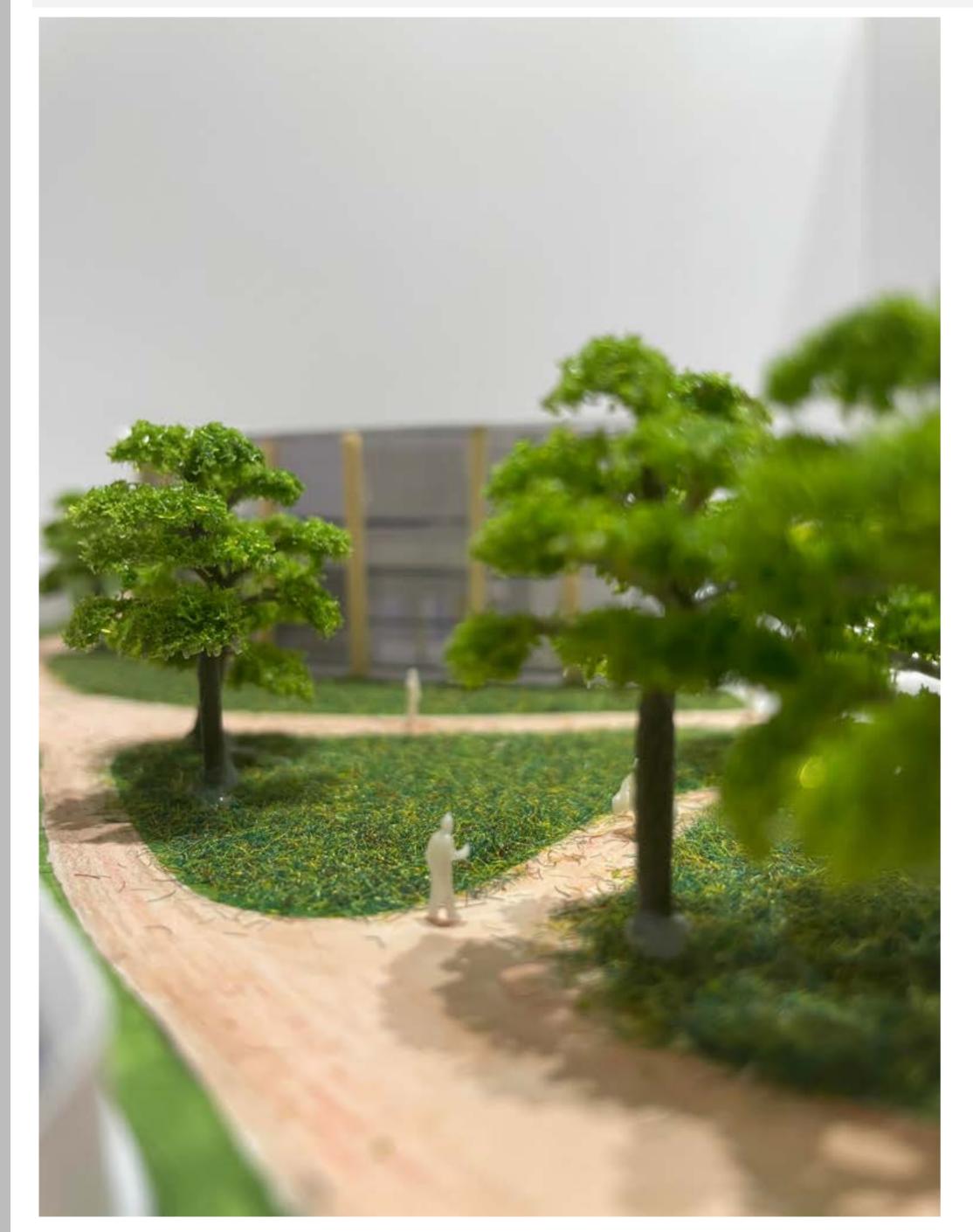




WEST ELEVATION















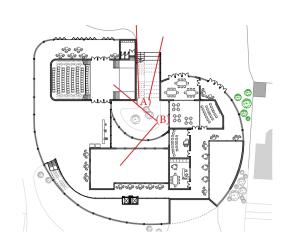
# HALF MODEL/ HALF DRAWN

I created half of a physical model to show a section in 3D, which demonstrates the different ceiling heights. Then I took a birds eye photo of the model which I put into procreate. Then I drew the other half using my roof context plan making it look as realistic as possible.

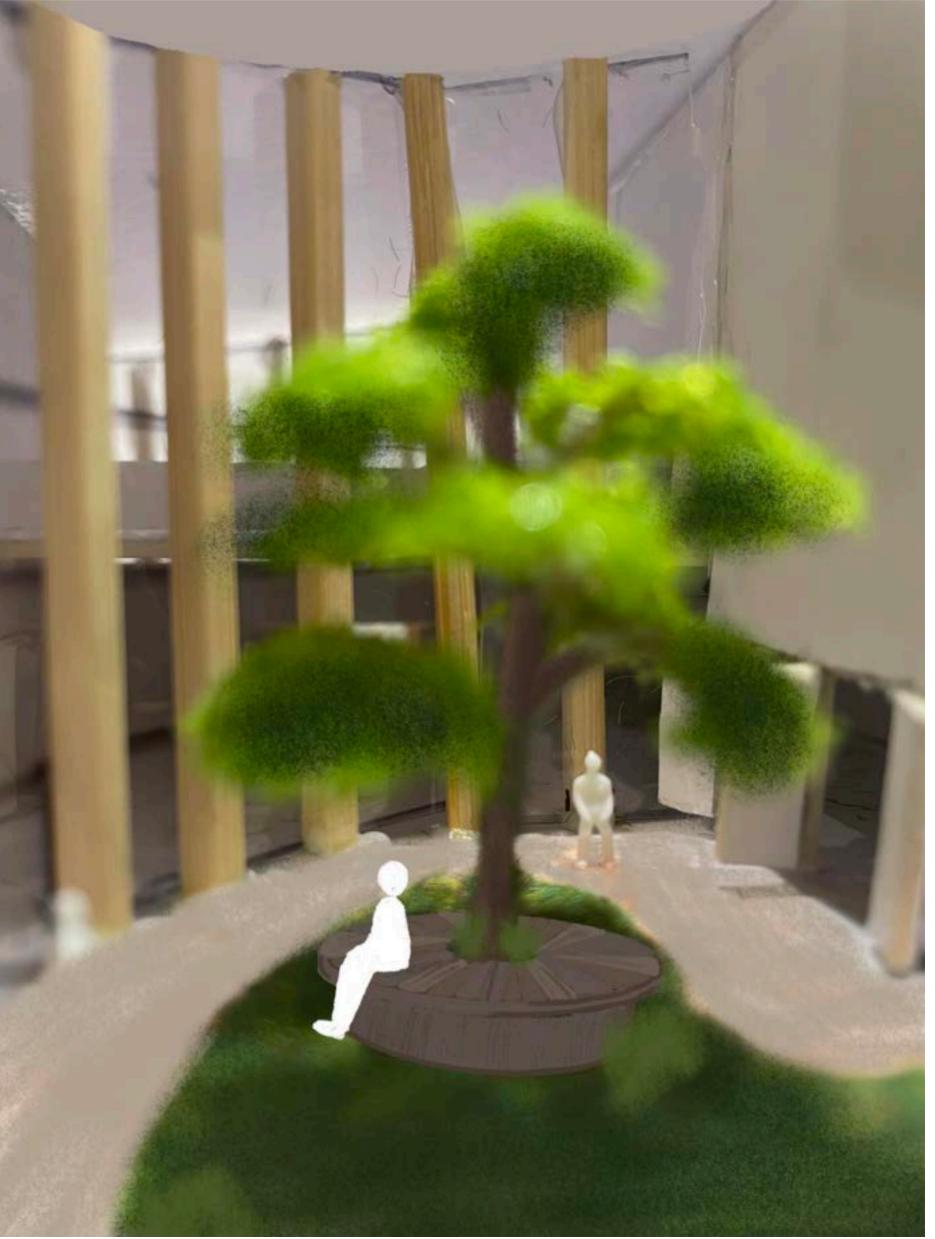


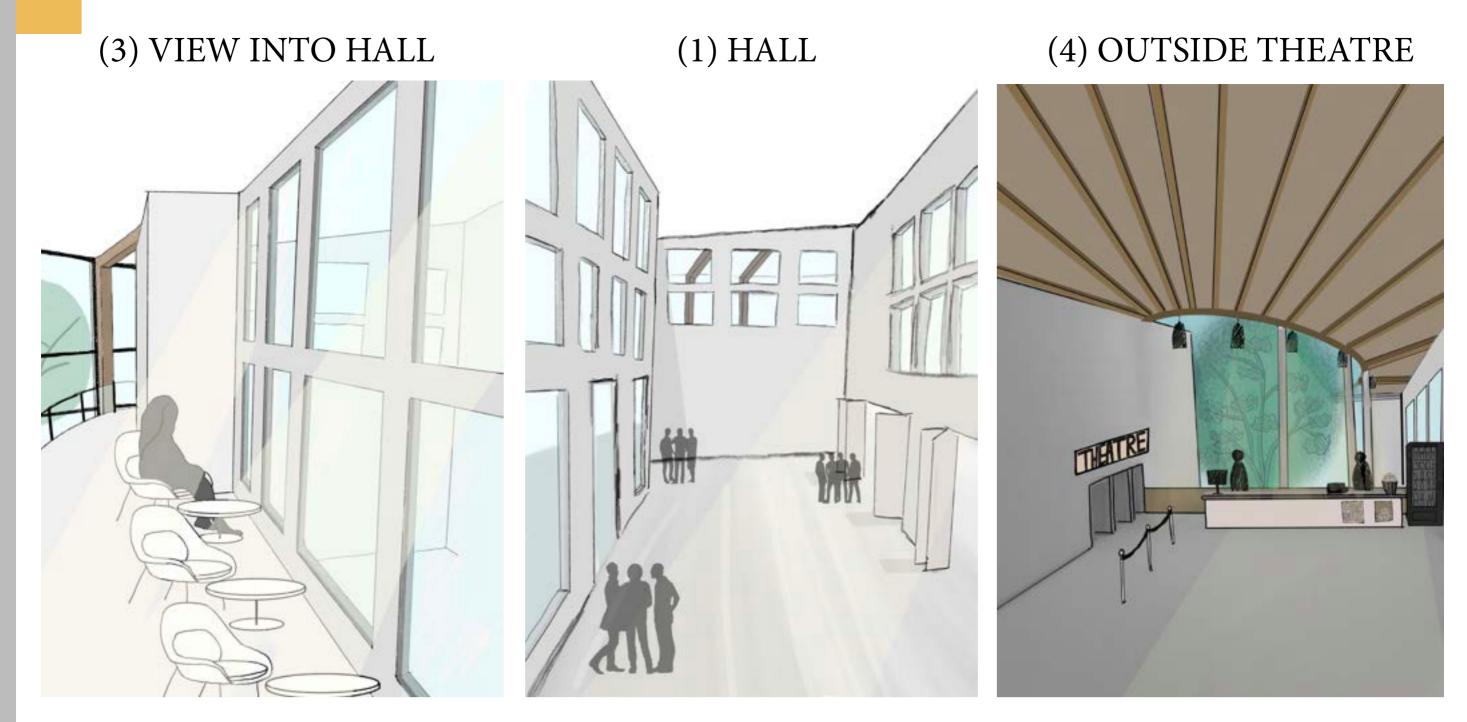
# COURTYARD VISUALS

I used different methods to create visuals including; modelling and sketching. By using the photos of the physical model I could then sketch over them adding more context to the images. I created some visuals by sketching by hand on my ipad using the plans and elevations. Visual A demonstrates the framed view of nature, 'nature exhibiting itself' from the courtyard. The framed view is created by the steps and opening within the building form/shape. The way the building slopes round creates the perfect opening for the sun to highlight this feature. The courtyard visual shows how I have incorporated nature throughout the site.

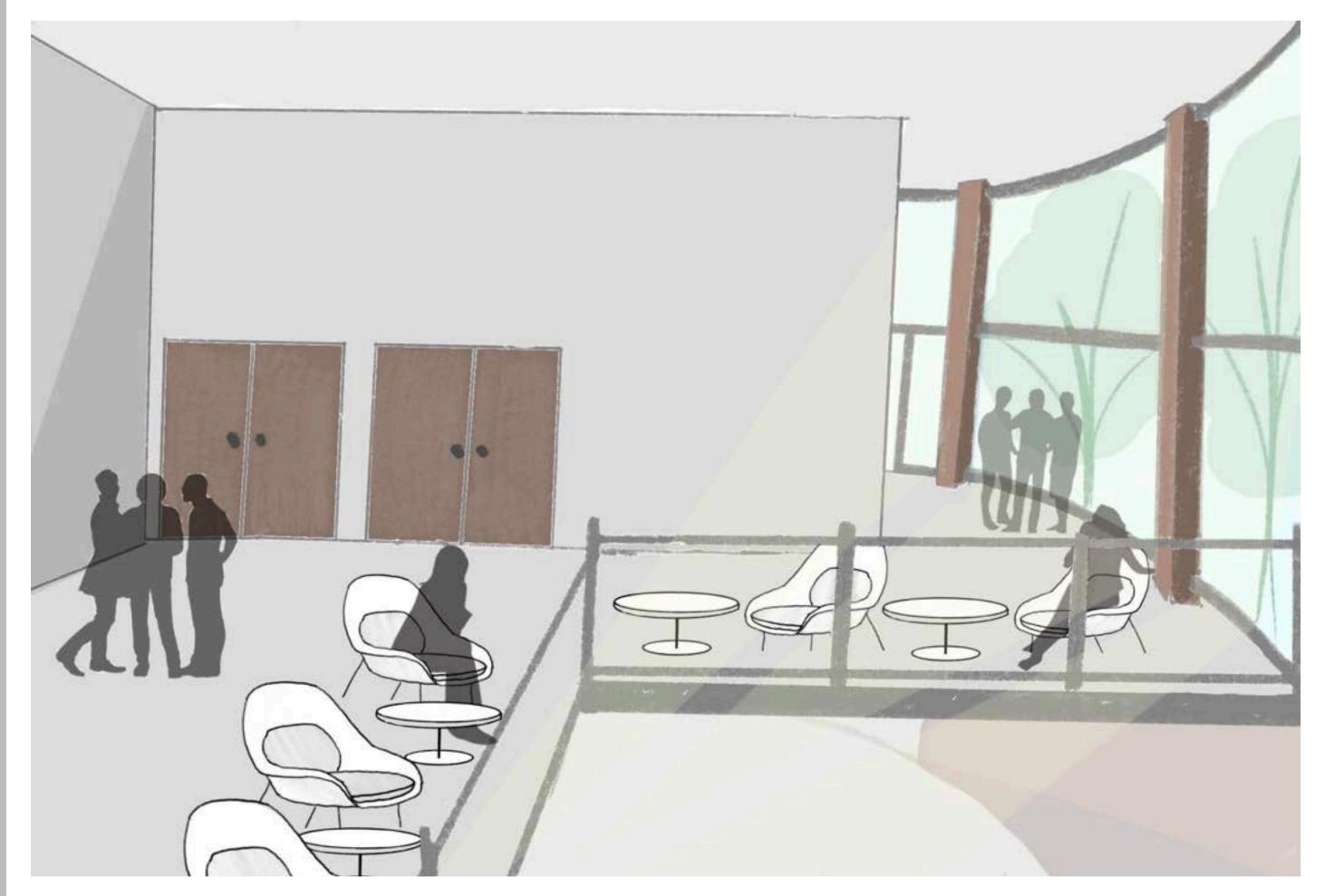


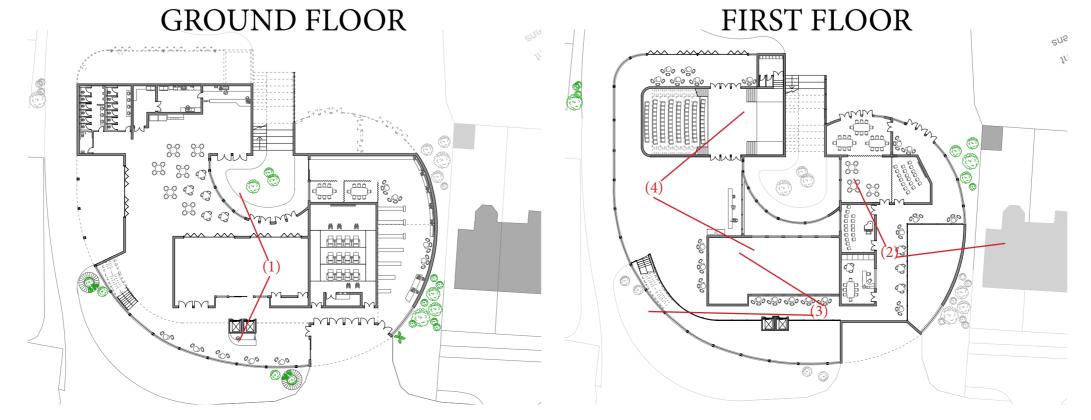






(2) INTERESTING DOUBLE HEIGHT SPACES





# POST DESIGN ANALYSIS

KEY WORDS: CONNECTION, EXTERIOR JOURNEY, INTERIOR JOURNEY, SWOOPING



# CONCEPT PARAGRAPH

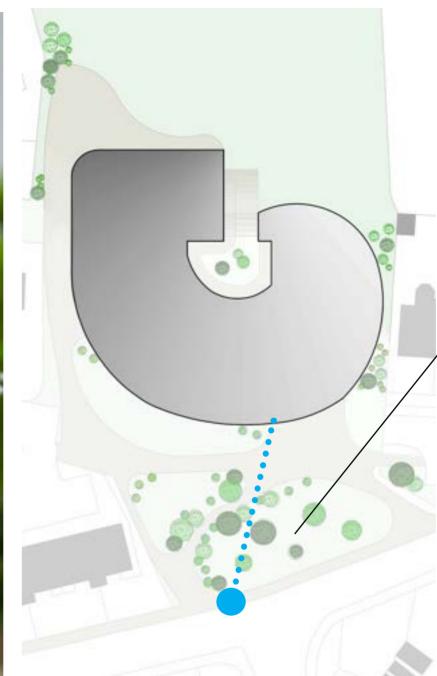
The main concept of my design is 'connection'. A building that works with the topography of the site, its views, and natural surroundings. A key aim of the design is to draw people in and create connectivity between the outside and interior spaces, to enable this open and airy connection throughout.

To create this transparent envelope of connectivity it was important to think about the material choices. Creating a steel frame coated in timber, with floor-to-ceiling glazing wrapped around the building, doesn't just link with connectivity between the interior and exterior, but also with the surrounding trees and nature.

In connectivity, it's also important to think about the journey and how the people flow through and experience the building. The use of light-coloured concrete aims to push the interior circulation through the building and defines the different spac-

# CONNECTION THROUGH VIEWS

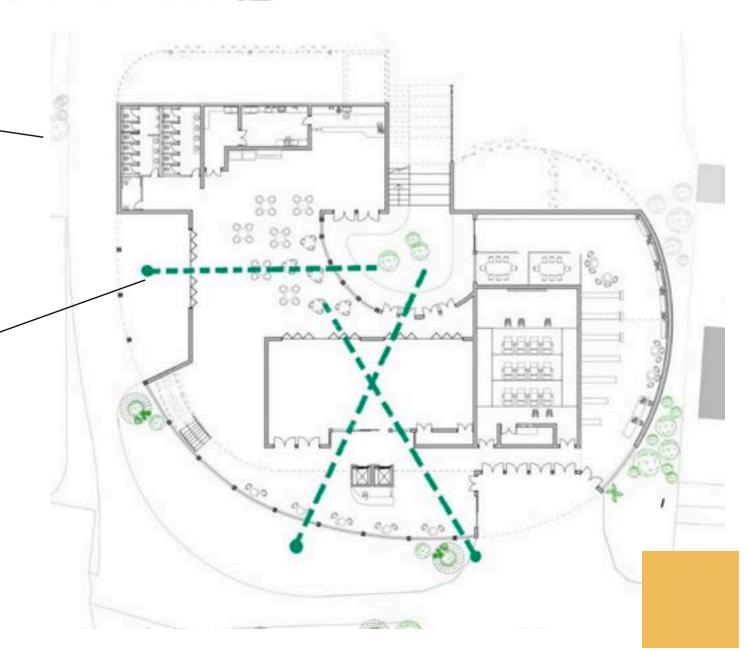




The blue dotted line shows that this photo was taken on my physical model and shows how the floor to ceiling glazing, which wraps the building.

The green dotted lines symbolise the views through the building. The aim was to have multiple views that pierce through, showing snip-its of the courtyard and cafe social spaces from outside.

This view is my favourite as it connects the art yard, cafe seating and courtyard together through the glazing by-fold doors.

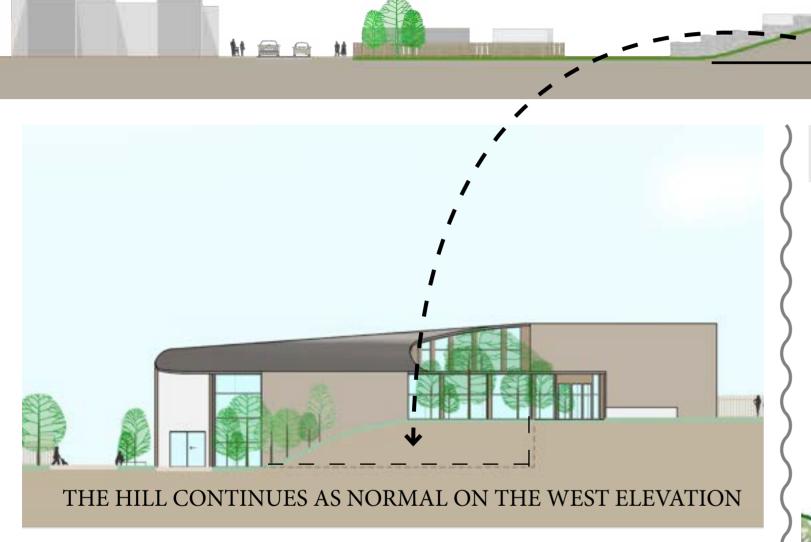


# KEY WORDS: CONNECTION, EXTERIOR JOURNEY, INTERIOR JOURNEY, SWOOPING

# POST DESIGN ANALYSIS

# RESPONSE TO THE SITE

## SITE SECTION



## APPROACH TO THE HILL

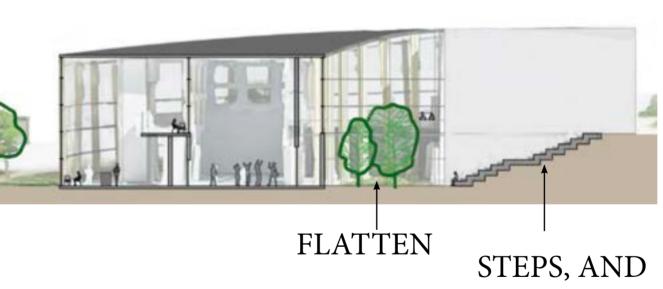
The site includes a hill of 4 meters placed at the centre. This challenging topography created a great opportunity to use the slope in to create an interesting solution, avoiding the easy option of flattening the site. By embedding the building into the slope it provided me with an opportunity to use the 4 meters to define the two levels of my design.

## CHANGES TO THE SITE

**READING** 

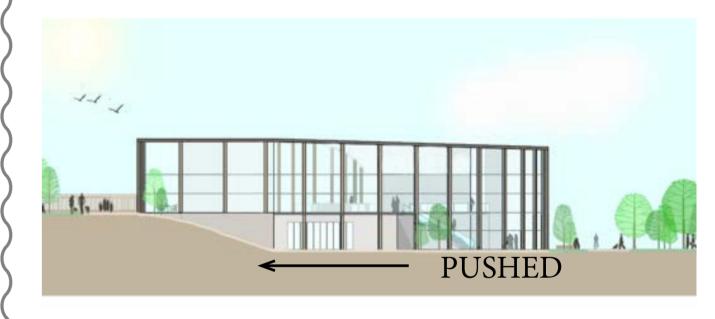
**STEPS** 

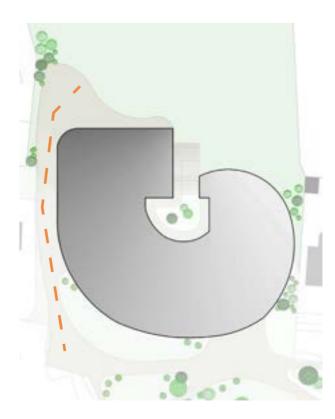
# CHANGE (1)



To create an calming and relaxing, courtyard space, I flattened part of the hill that sits central within my design and introduce steps and reading steps to connect with the south of the site.

# CHANGE (2)





To create room for the art yard to be flat, I pushed the hill slightly back and added a path which runs along the east side of the building. This path created circulation to the back field, but also brings attention to the art yard.

# KEY WORDS: CONNECTION, EXTERIOR JOURNEY, INTERIOR JOURNEY,

# **SWOOPING**

From the beginning the site was a place of nature and greenery, where the community would go to enjoy a walk with a peaceful atmosphere. I wanted to maintain this by including trees and natural planting to surround the building, making a peaceful, welcoming journey too and from the community centre. With the design been surrounded by nature it cre-

# POST DESIGN ANALYSIS

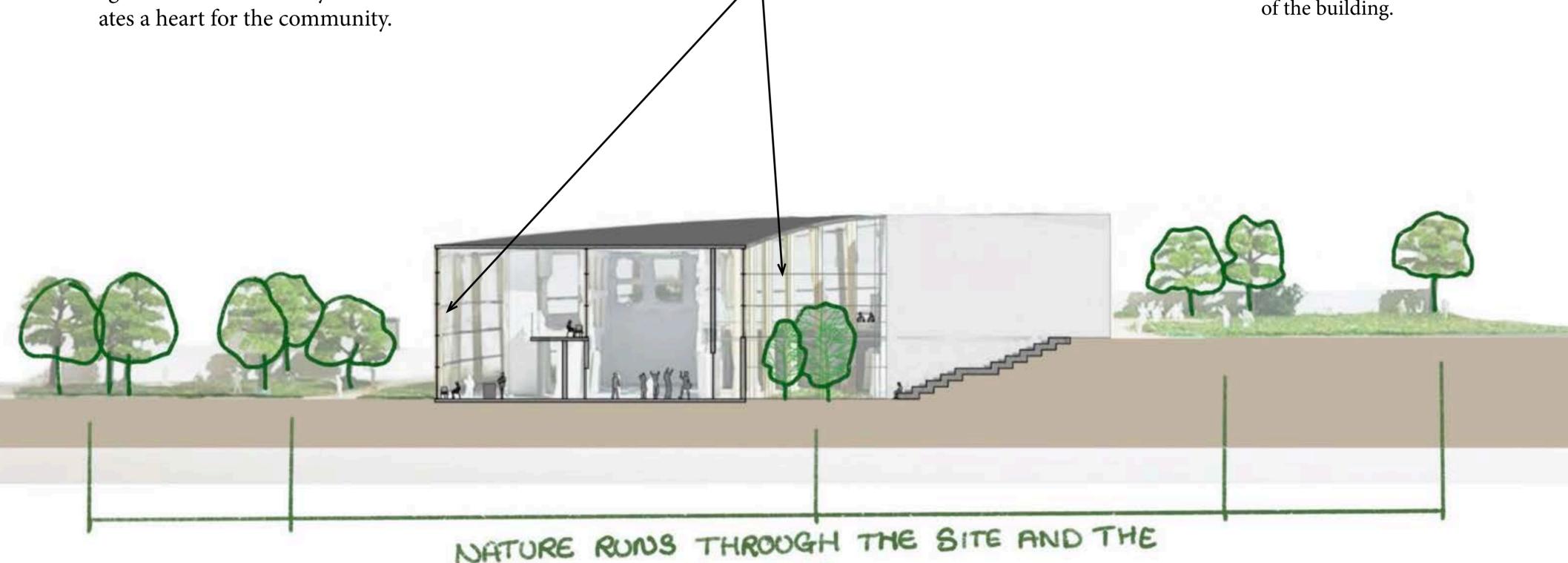
# CONNECTION THROUGH THE SITE AND NATURE

### TIMBER COLUMNS

The use of timber as columns represents the surrounding nature and mirrors how the trees are placed through the site and the building.

# METAPHORICAL CONNECTIONS AND LITERAL CONNECTIONS

This path of nature can be perceived in both a metaphorical and literal way, with the use of the columns connecting with nature in a metaphorical way but also literally with the community garden, courtyard and greenery space at the back of the building.



BUILDING.

# KEY WORDS: CONNECTION, EXTERIOR JOURNEY, INTERIOR JOURNEY, **SWOOPING**

# POST DESIGN ANALYSIS

CIRCULATION TO ART YARD

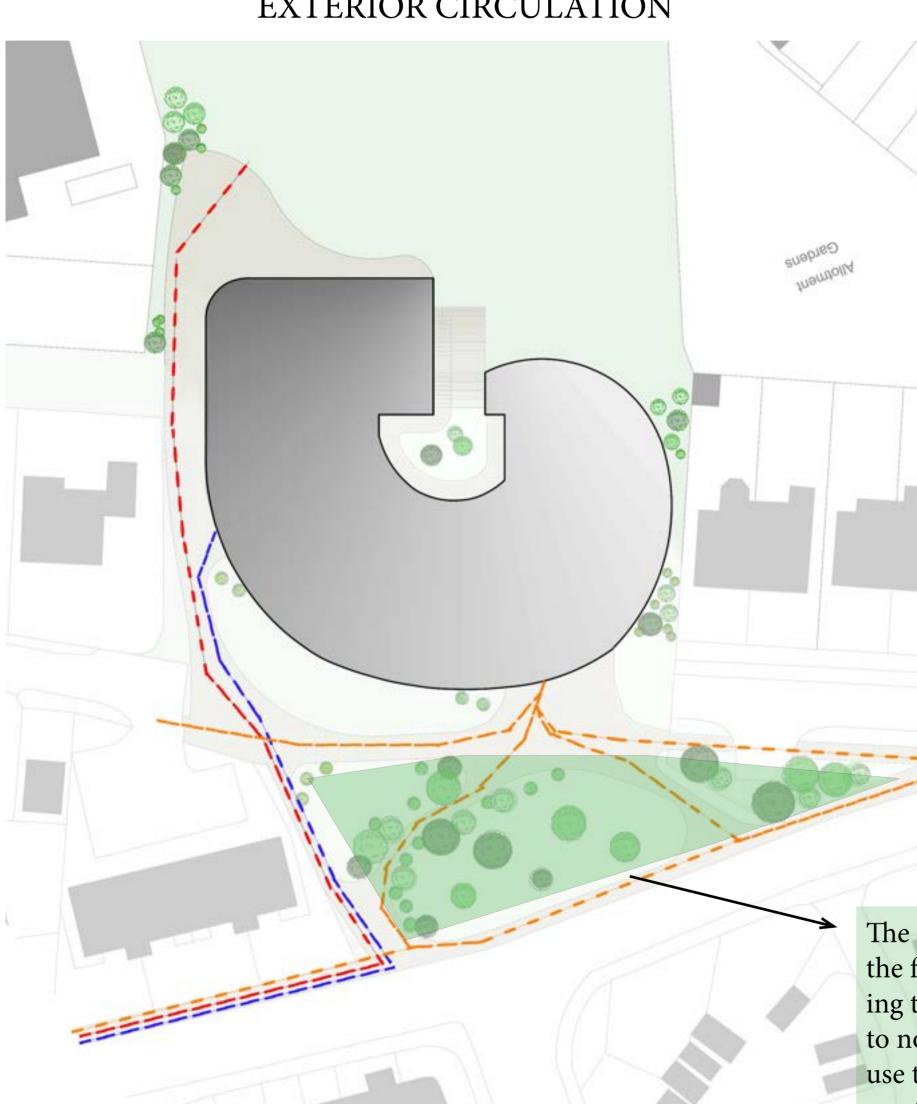
JOURNEYS TO MAIN ENTRANCE

CIRCULATION TO BACK OF THE

SITE PAST ART YARD

# **EXTERIOR JOURNEY**

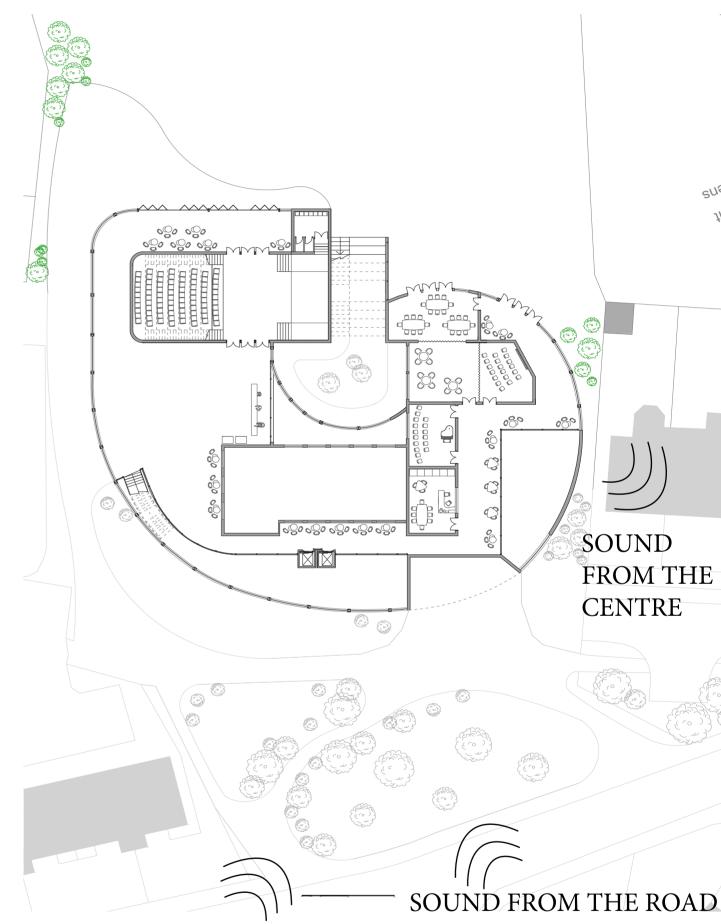
# **EXTERIOR CIRCULATION**



The orange dotted lines represents the walk throughout the community garden to the main entrance of the building. The Garden is made up of a walkway of trees, planting done by the local community and interesting outdoor benches wrapped around some of the trees and greenery. This makes the entrance to the building a experience.

The community Garden placed at the front of the site with the existing trees, This was an opportunity to not just keep the trees but also use them and plant more to create a natural welcoming journey to the entrance. Making the walk to the building its own experience.

## **SOUND**



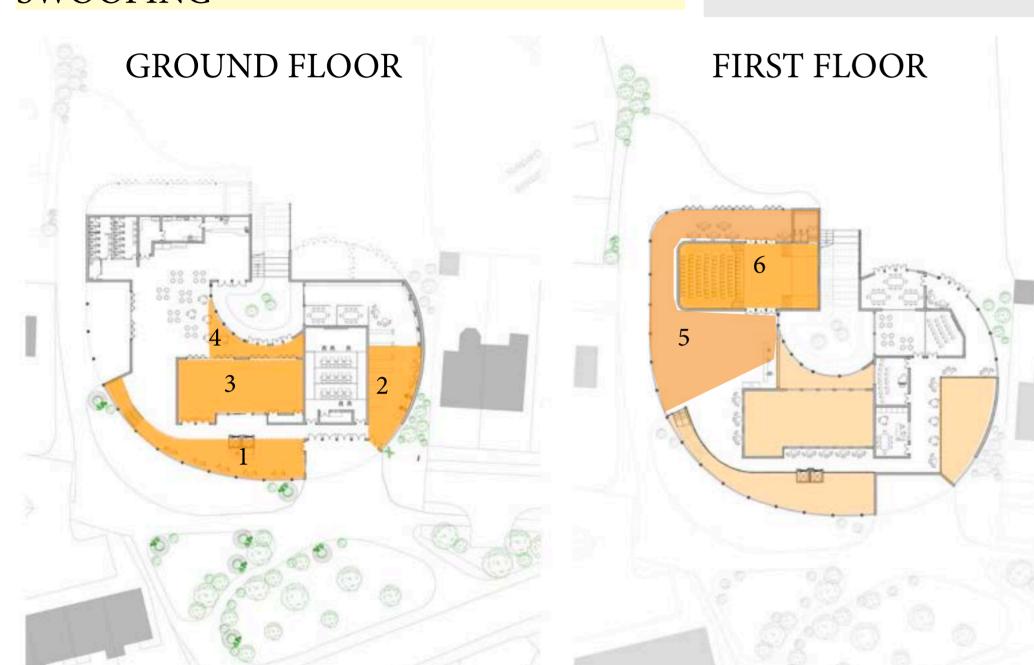
I also placed the trees in places for a reason to create a sound barrier from the road to the art and community centre but also from the centre to the close neighbouring house.

# KEY WORDS: CONNECTION, EXTE-RIOR JOURNEY, INTERIOR JOURNEY, SWOOPING

# POST DESIGN ANALYSIS

# DIFFERENT HEIGHT SPACES

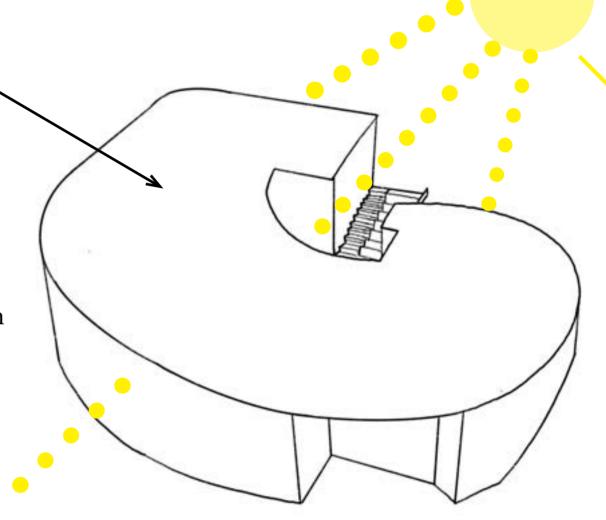
**SWOOPING ROOF** 



The swooping roof was created by the arrangement of rooms and which rooms needed double height spaces.

The shape is simple but elegant and is also respectful of the neighbouring house by been a lower height on that side.

The swooping roof also allows the sun to piece the building.

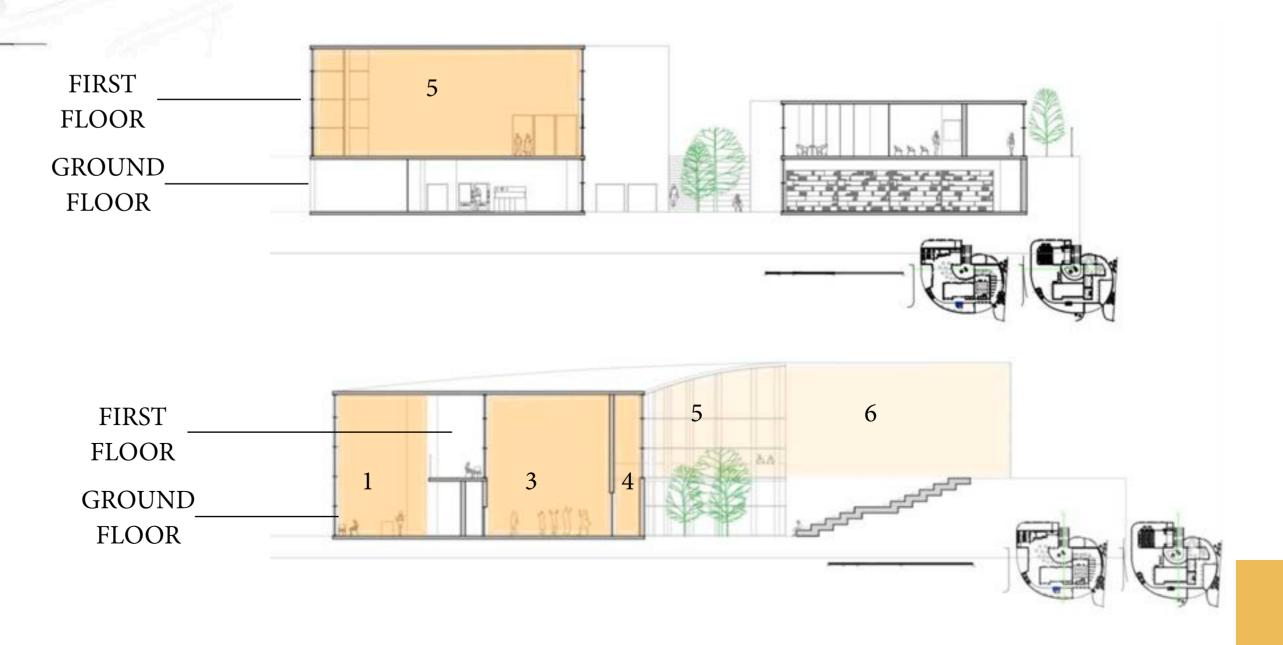


## **GROUND FLOOR**

- 1.LOBBY
- 2. READING SPACE, BOOKSTORE
- 3. MULTI-PURPOSE HALL
- 4. CAFE SEATING AND HALL TO THE COURTYARD

# FIST FLOOR

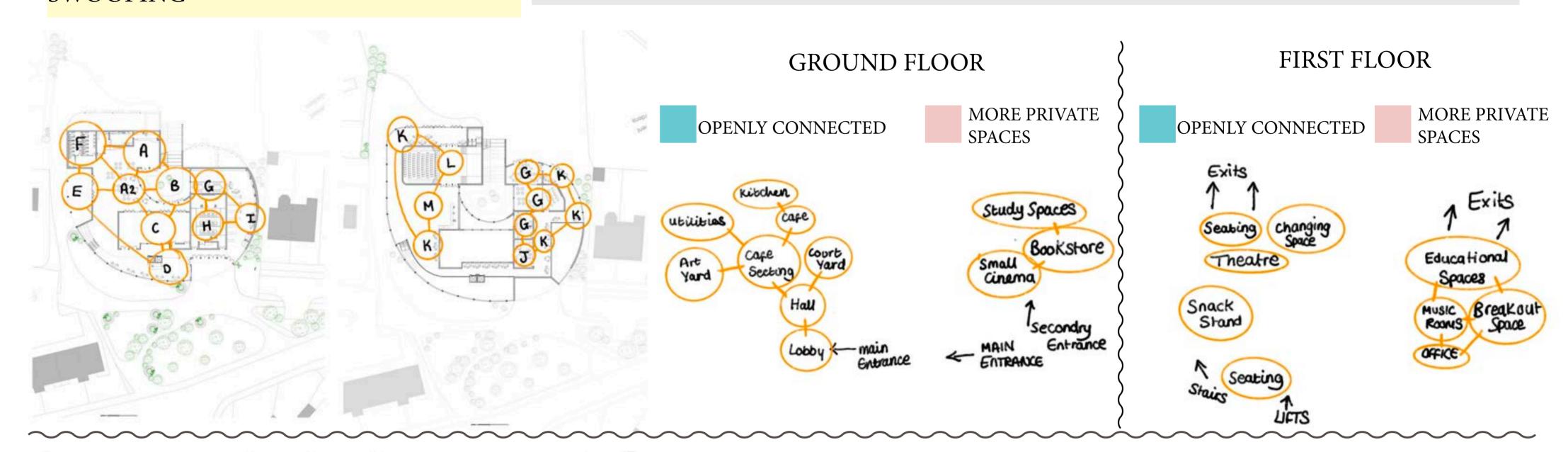
5. BREAKOUT SPACE FOR THEATRE,FOOD AND SNACK STAND.6. THEATRE



# KEY WORDS: CONNECTION, EXTERIOR JOURNEY, INTERIOR JOURNEY. SWOOPING

# POST DESIGN ANALYSIS

# INTERIOR CONNECTIONS, GROUPING



## WHY? ORGANISED LIKE THIS?

I put the quieter, more private educational rooms grouped together on the right hand side of the building as it was next to the close neighbouring house.

I also placed them on the right hand side because these spaces didn't need the high ceilings which created the swooping roof.

# OPEN AND AIRY SPACES

One of the requirements was to have an open and airy hall, and to do this I organised all the social spaces that would be benefit if they where close together and connected.

I added lots of glazing and connecting large by-folding doors which can be left open.

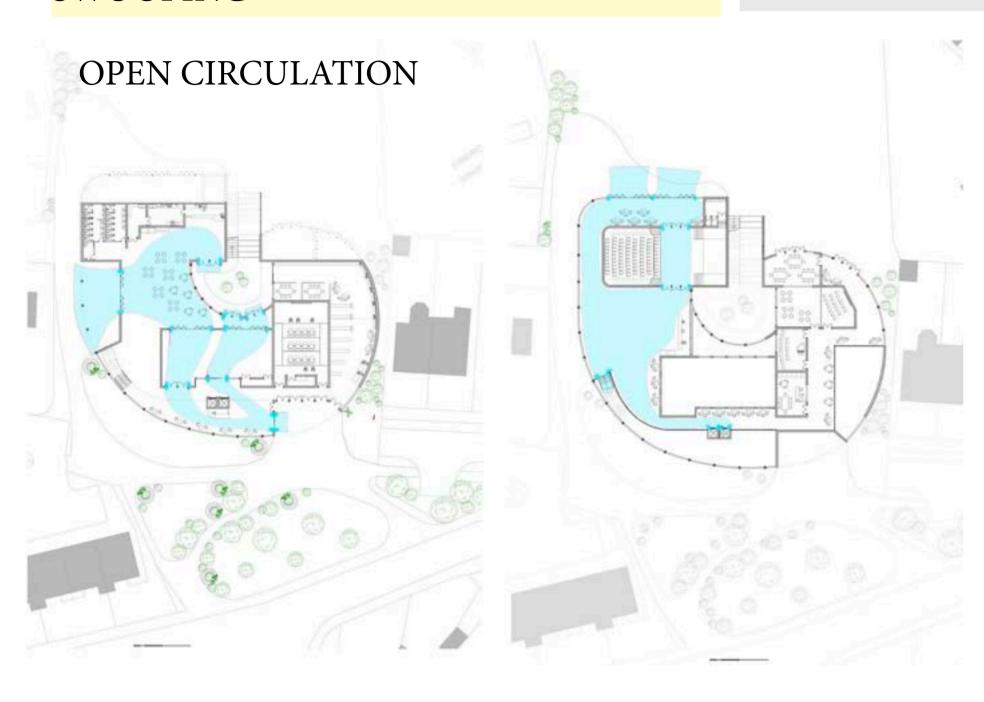
OPENLY CONNECTED, AND SPACIOUS SPACES

MORE PRIVATE/ EDUCATIONAL AND QUIET SPACES

# POST DESIGN ANALYSIS

# KEY WORDS: CONNECTION, EXTERIOR JOURNEY, INTERIOR JOURNEY. SWOOPING

# INTERIOR JOURNEY



# **OPEN CIRCULATION**

The circulation around the open airy spaces, was larger and more had more space to wonder around with lots of connectivity through all the different rooms and space, on the interior and the exterior including the courtyard and art yard.

# TIGHTER CIRCULATION

On the bottom floor the circulation is direct and pushed.

On the first floor the circulation is also pushed and direct but also an experience as you get to walk past the double height space of the bookstore below.

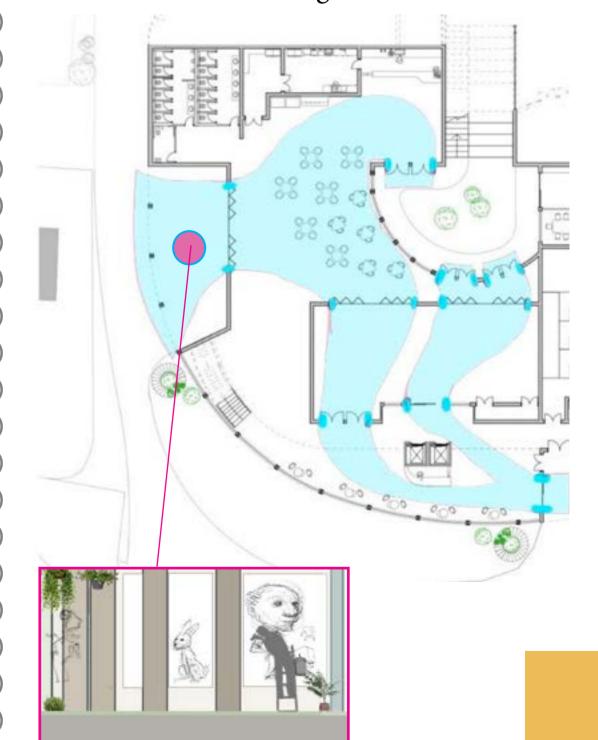
# ART YARD

## THE ART YARD CONCEPT

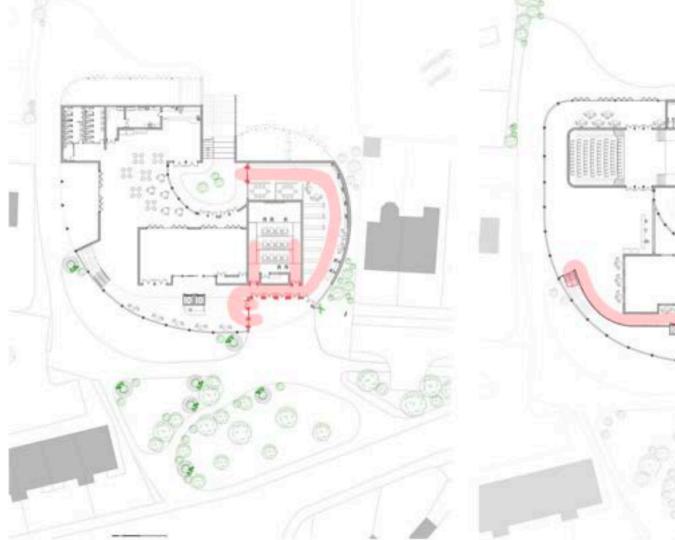
The concept of the Art Yard was to be a sheltered outdoor space, which has connectivity to the cafe, and social spaces.

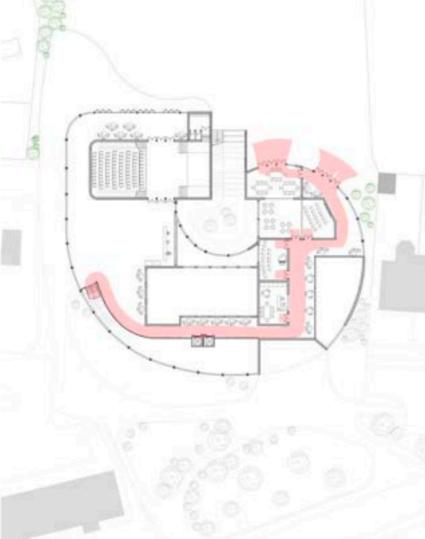
The space can be used by local schools and company's to hold competitions, or exhibit art work.

The idea is that the art-yard will be an experience and the local schools can hold competitions to create its own atmosphere, and image.







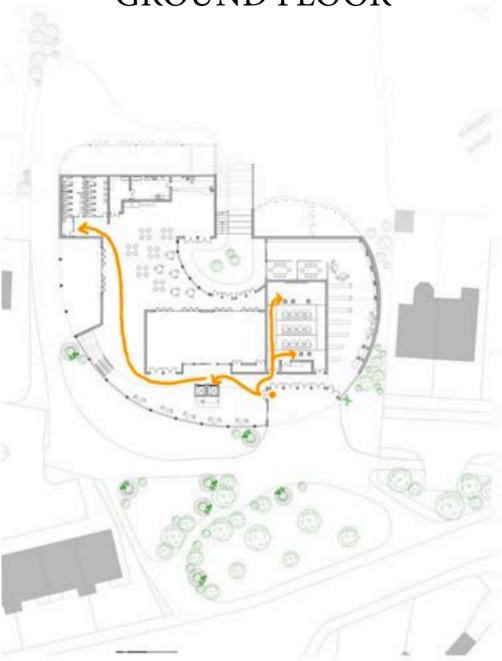


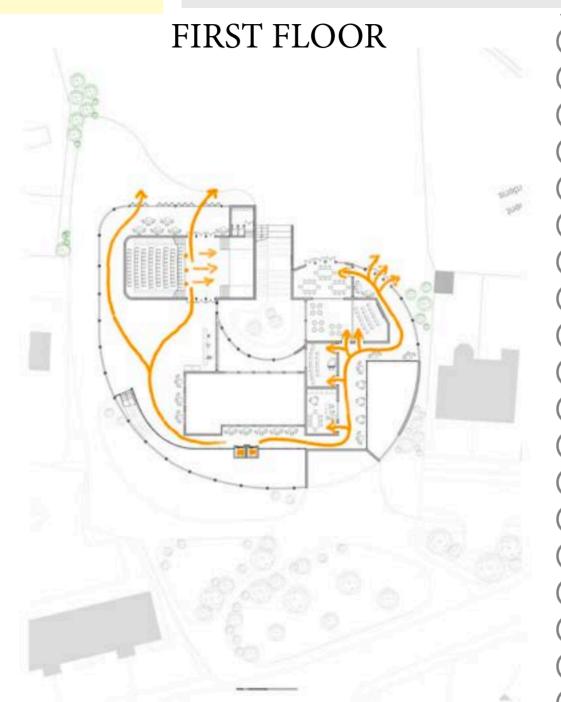
# POST DESIGN ANALYSIS

# KEY WORDS: CONNECTION, EXTERIOR JOURNEY, INTERIOR JOURNEY. SWOOPING

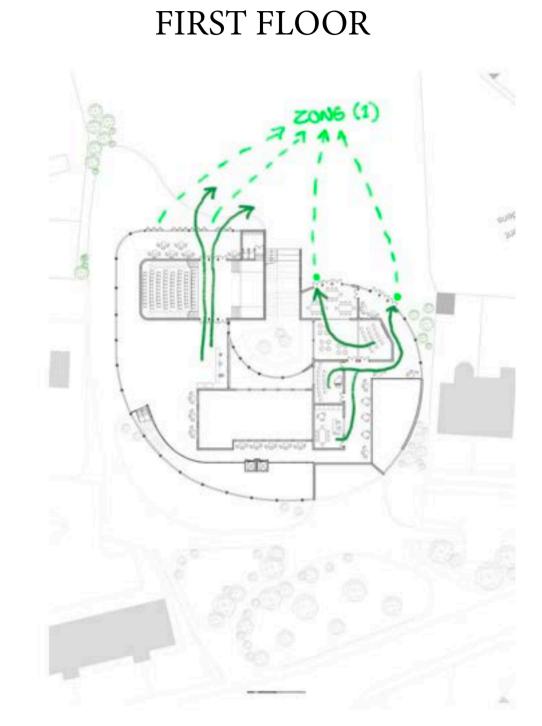
# ACCESSIBILITY AND FIRE SAFETY











## **ACCESSIBILITY**

Accessibility is a big aspect of the design, and how I created my circulation. I added an automatic door especially for an accessible route to the lifts to the second floor.



# SMALL CINEMA AND THEATRE

SMALL CINEMA THEATRE

Accessibility in the small cinema was created by adding a slope instead of steps to the slightly tiered cinema seating.

There was also extra deeps added to the there.

There was also extra doors added to the theatre to allow more access to the theatre.

Double doors throughout the building where used for accessibility.

## FIRE EXITS

You will find Fire exits spaced around the building with two zones one at the back and one at the front.

The ground floor has many fire exits and the right hand side of the first floor whereas for the theatre side some reflection would be to add some separate fire exits to the by-folding door.



# **MATERIALS**

Lots of thought went into the materials. My concept focused on both the organisation and circulation of the interior and also though enveloping exterior connecting facade.

# TIBER ENVELOPE

The enveloping facade is made out of both timber coated steel I beams and triple glazed Glass. This has a metaphorical connection with the surrounding nature through the site, and also is the main concept of connection with the exterior and interior.

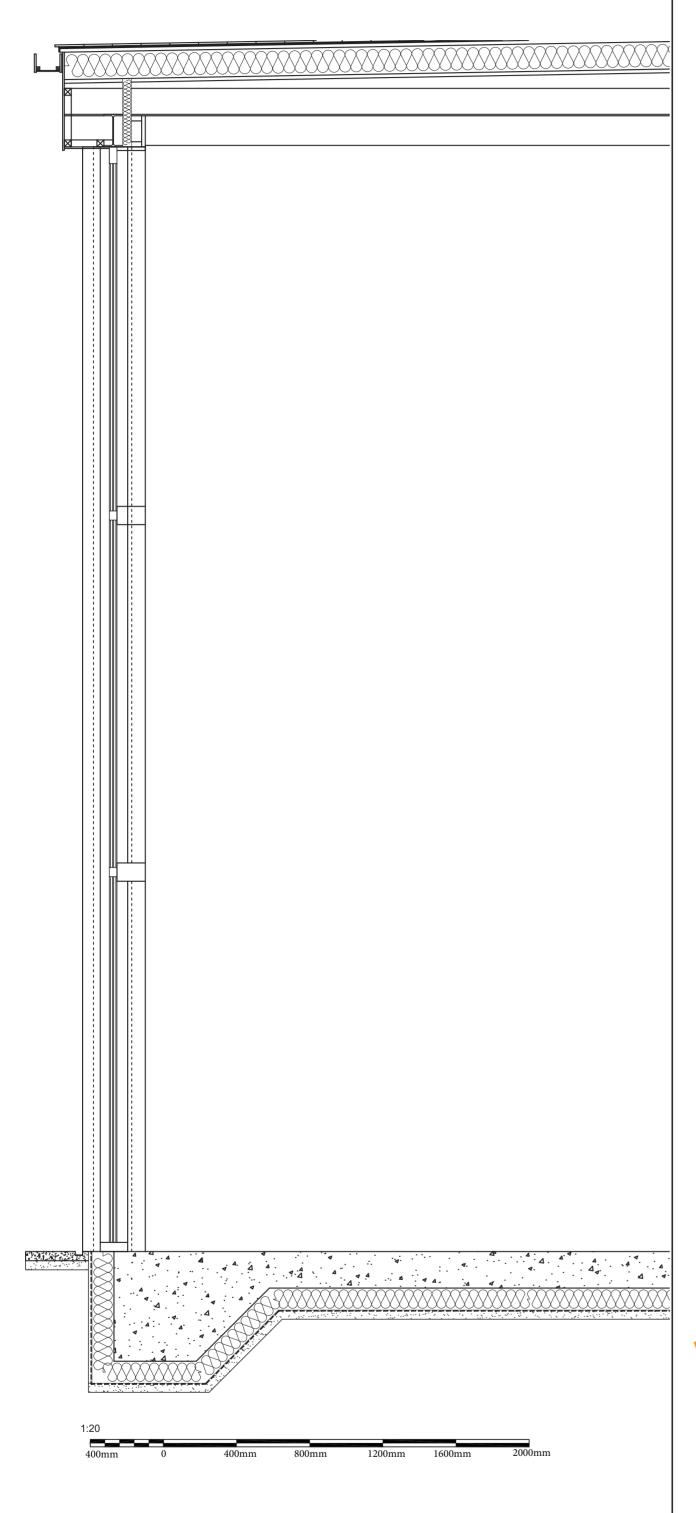
# CONNECTION

The building is wrapped with floor to ceiling glazing, the glazing is also placed through the building. Creating flamed views and creating the spaces open and airy.

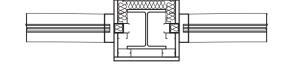
# **INTERIOR**

The interior spaces and circulation is all with a light coloured concrete. The light grey is so the spaces keep as airy and spacious as possible. I also wanted the interior to stand out linking with the connection concept and advertising itself.

# 1:20 SECTION

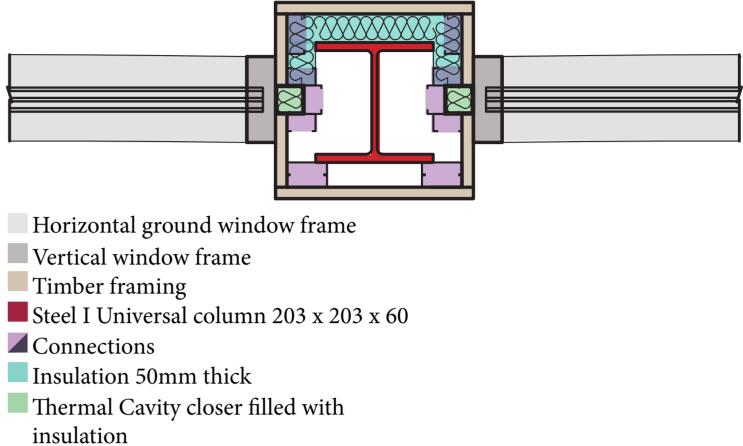


# 1:20 PLAN DETAIL



# DRAWING ANALYSIS

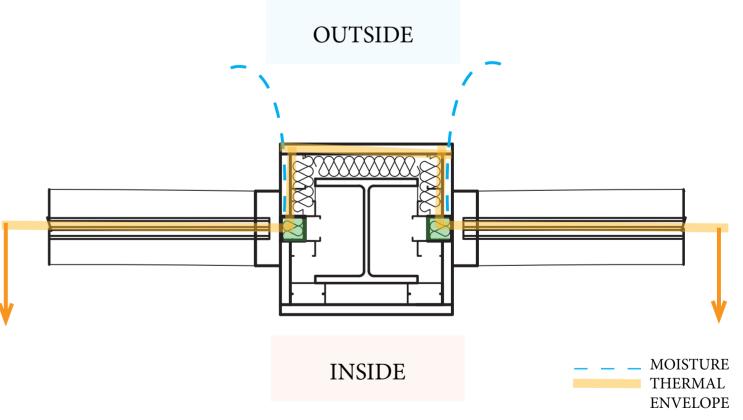
#### TECHNOLOGY MATERIAL CHOICES



#### **ANALYSIS**

## **EXTERIOR ENVIRONMENT**

The cavity closer is made of an outer layer of plastic and filled with insulation. The purpose of the cavity closer is to break up the timber framing around the steel column, this is to stop damp and water from traveling through the timber and into the interior of the building.



### INTERIOR ENVIRONMENT

The insulation working with the triple glazing envelope helps to lower the U Value and keep as much heat within the building as possible. Temperature comfort is important.

# (1) ROOF FINISHING Taken by inspiration from a precedent study

**ROOF ANALYSIS** 

on Longmen Qicun Art and Design Centre, China, the black and white detailed tiled roof creates an aesthetically smooth effect and draws emphasis to the swooping geometry of the roof.

## (2) SINGLE PLY MEMBRANE

This layer is used for weather proofing the roof.

## (3) GUTTER

The roof is on a slight slope but visual will look flat and swooping, the rain water will run down the slight slope into the small gutter.

## (4) ROOF INSULATION

Thick roof insulation.

## (5) SECONDARY ROOF BEAM

Under the secondary beams its covered up by board so you cant aesthetically see it on the interior.

## (6) FASCIA & (11)SOFFIT

The Fascia and soffit is to close of the roof to the outside, Using timber which will visually link with the rest of the external envelope which wraps the building.

## (7) STEEL I BEAM

The steel I beam transfers the load from the roof and sends it down the I universal column.

## (8) INSULATION

This insulation connects the columns with the roof insulations closing the thermal envelope.

## (9) TIMBER BEAM

The timber beams which run through the building where both an aesthetic and structural choice, This was inspired by the Longmen Qicun Art and Design Centre precedent study.

# (10) SECONDARY STRUC-TURE

The secondary structure is hidden by a lining of timber so you can only see the main

# COLUMN SECTION ANALYSIS

# (12)COLUMN & (13) STEEL I COLUMN

This is the column wrapped in its timber frame, The dotted line represents the steel structural I column that runs through the inside of the structure.

## (14)SECONDARY BEAM

The secondary beam is hidden behind the window frame to make it as discrete as possible and leave as much of the glazing as clear as possible.

(12) —

1:20

400mm

(15) TRIPLE GLAZING

The triple glazing is both for structural integrally with the span of glazing been quite large but also to keep the lowest U value and stop heat escaping through the glazed facade.

(16) VERTICAL WIN-DOW FRAME

2000mm

1600mm

# **GROUND ANALYSIS**

## (17) WINDOW FRAME

# (18) OUTSIDE CONCRETE

# (19) SAND

To stop the DPM from getting broken or ripped

## (20) DPM

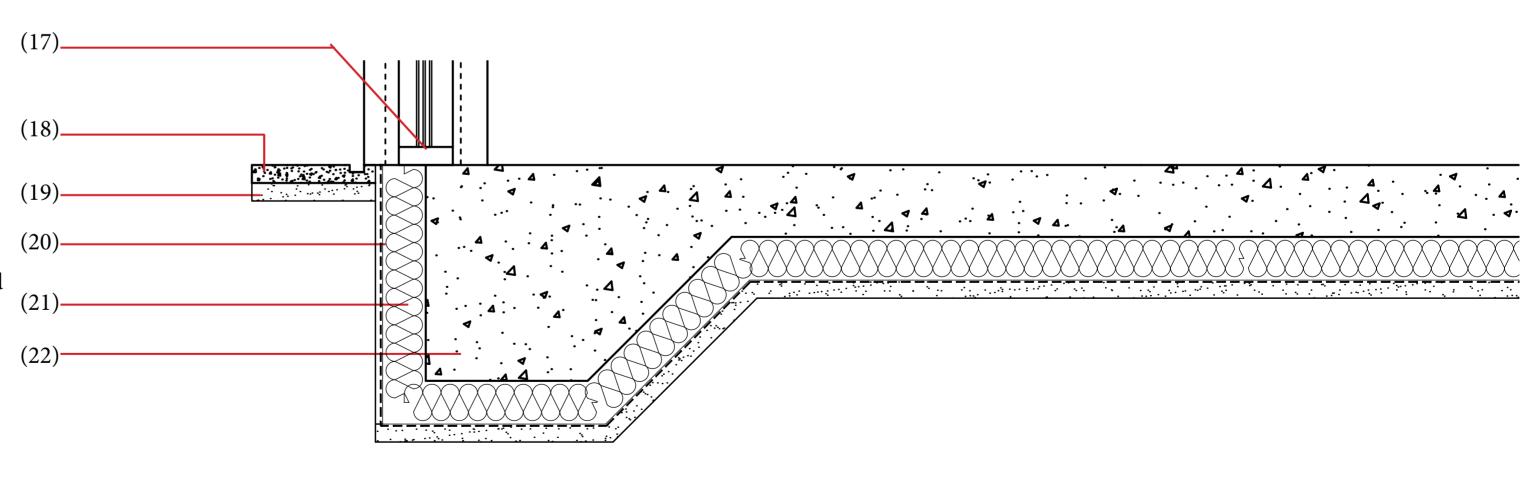
To stop moisture from coming up from the ground

## (21) INSULATION

To prevent loosing heat through the ground

## (22) Concrete Slab

I wanted pure concrete finish with a gloss finish for my floor linking with the concept that the interior is made up of pushed circulation which is highlighted by the change in material.



800mm

400mm

1200mm

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