

Sam Mason
Architecture Portfolio



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Copper Foundry

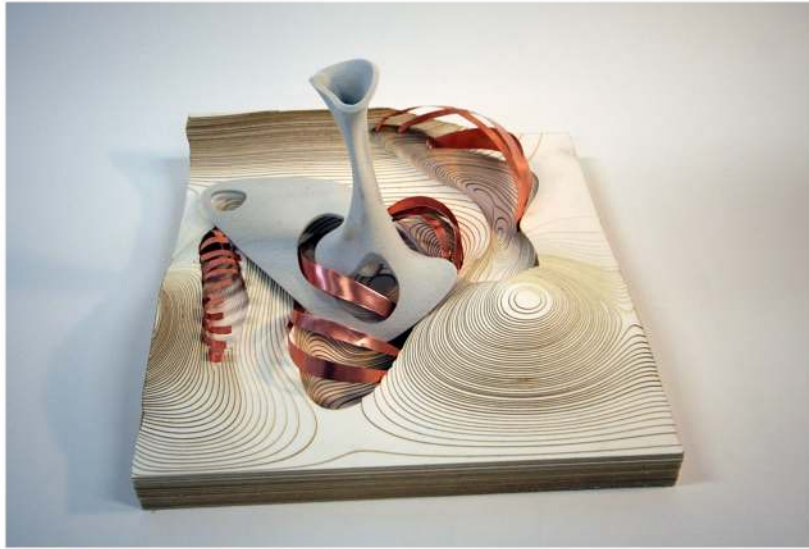
Hackney Wick, East London

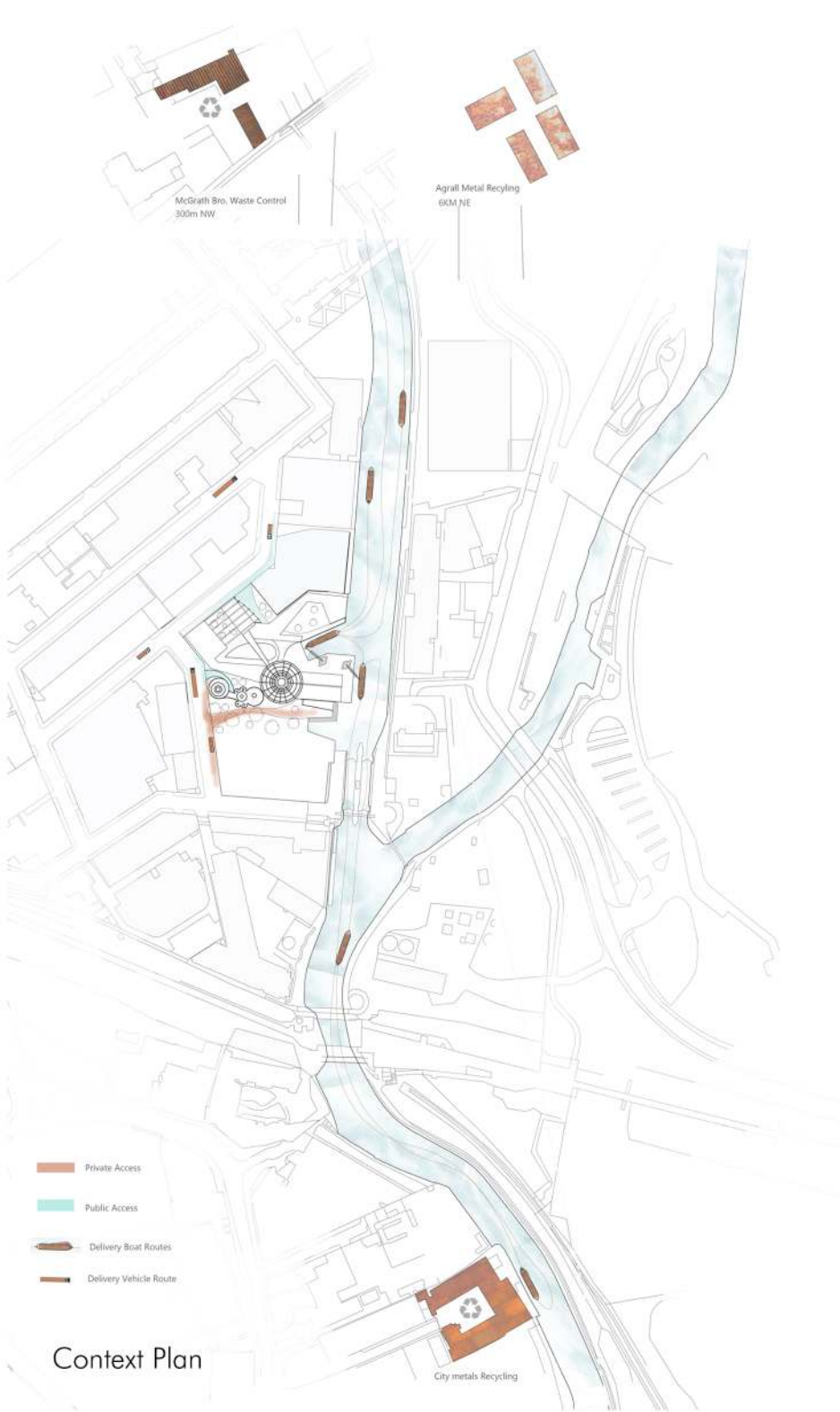
The site in Hackney Wick has a rich history of industrial manufacturing along with a more recent influx in young artists claiming the area as the centre for a new artistic movement. However with the regeneration of the area after the Olympic Games, Hackney Wick is in danger of losing its creative heritage. The brief was to create a workspace that would re-industrialise the Hackney Wick area in a 'post-digital' world.



Concept model for Hackney Wick site

I Explored ideas of verticality from the industrial chimneys in close proximity to the site. The Digital version created in Rhino was then built using a 3D printer for the primary form. Experimentation with copper strips informed my idea of a copper foundry. Then using Laser cut water coloured paper I layered contoured landscape to complete the model.



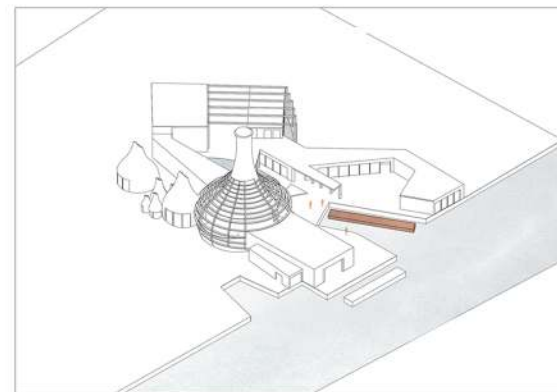


The design takes advantage of the canal using it as a fundamental component in the transportation of materials to and from the site.

Due to the narrow roads surrounding the site, the canal can be used for transporting heavy duty materials and products. Bringing the canal physically into the site allows barges to moor up to deliver and collect materials.

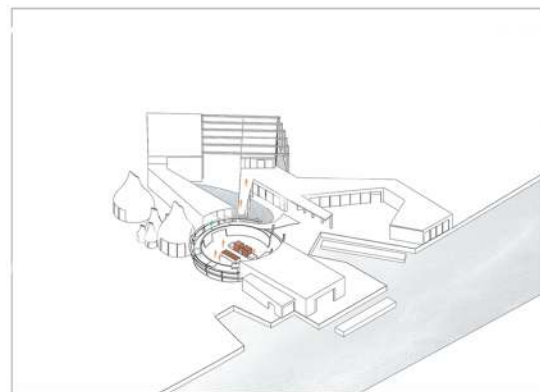
The proximity of the existing metal recycling centres to the north and south of the site like City Metals Recycling ensures a continuous supply of locally sourced copper for the foundry.

This series of axonometric drawings shows the recycling process in action from the delivery of the scrap material to the site up to its shipment or display in the gallery.

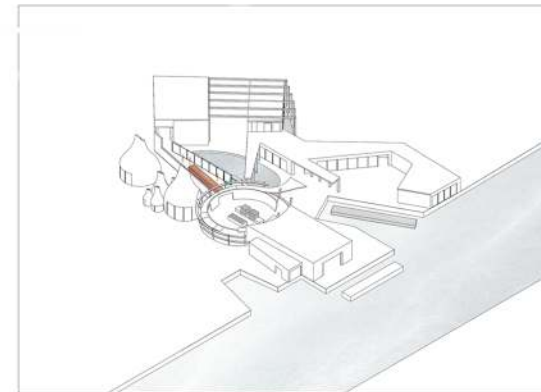


1. Unloading Scrap Material

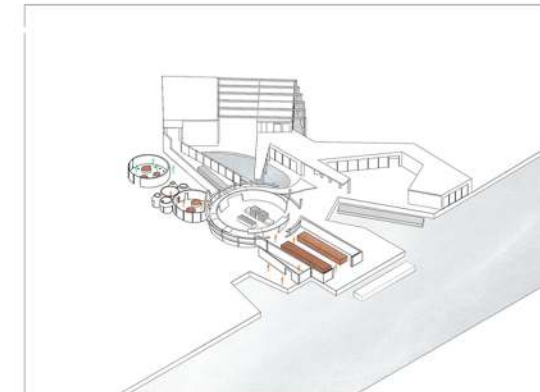
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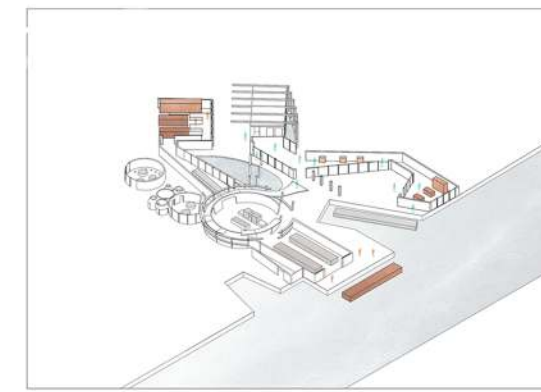
2. Melting Down Copper



3. Refinery and Purification



4. Sculpting and Manufacturing

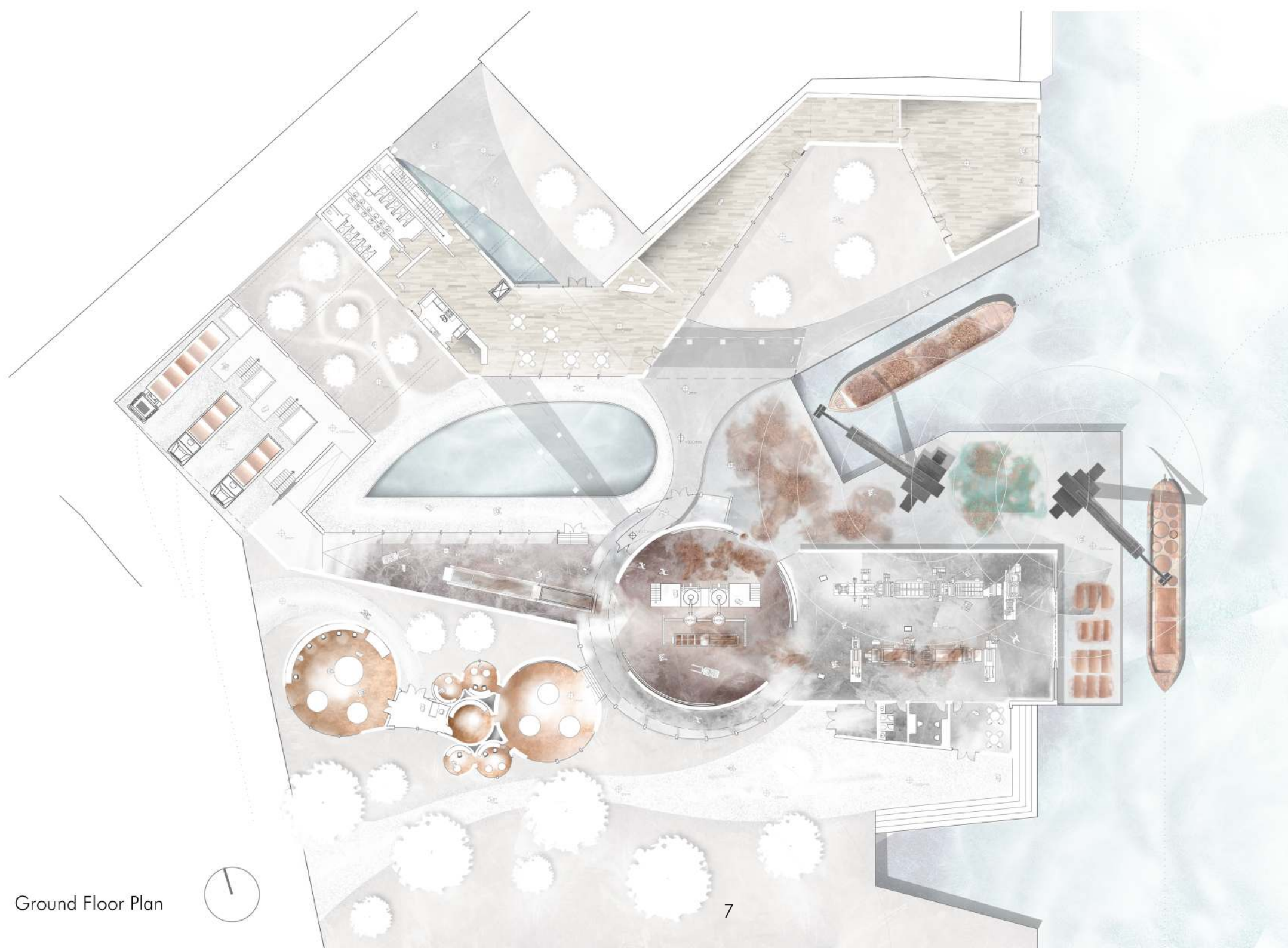


5. Display and Dispatch

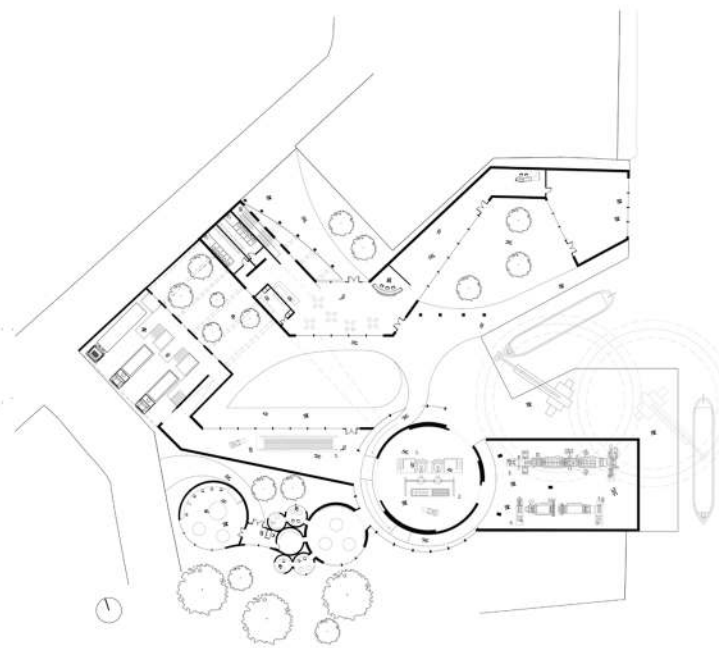
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Ground Floor Plan



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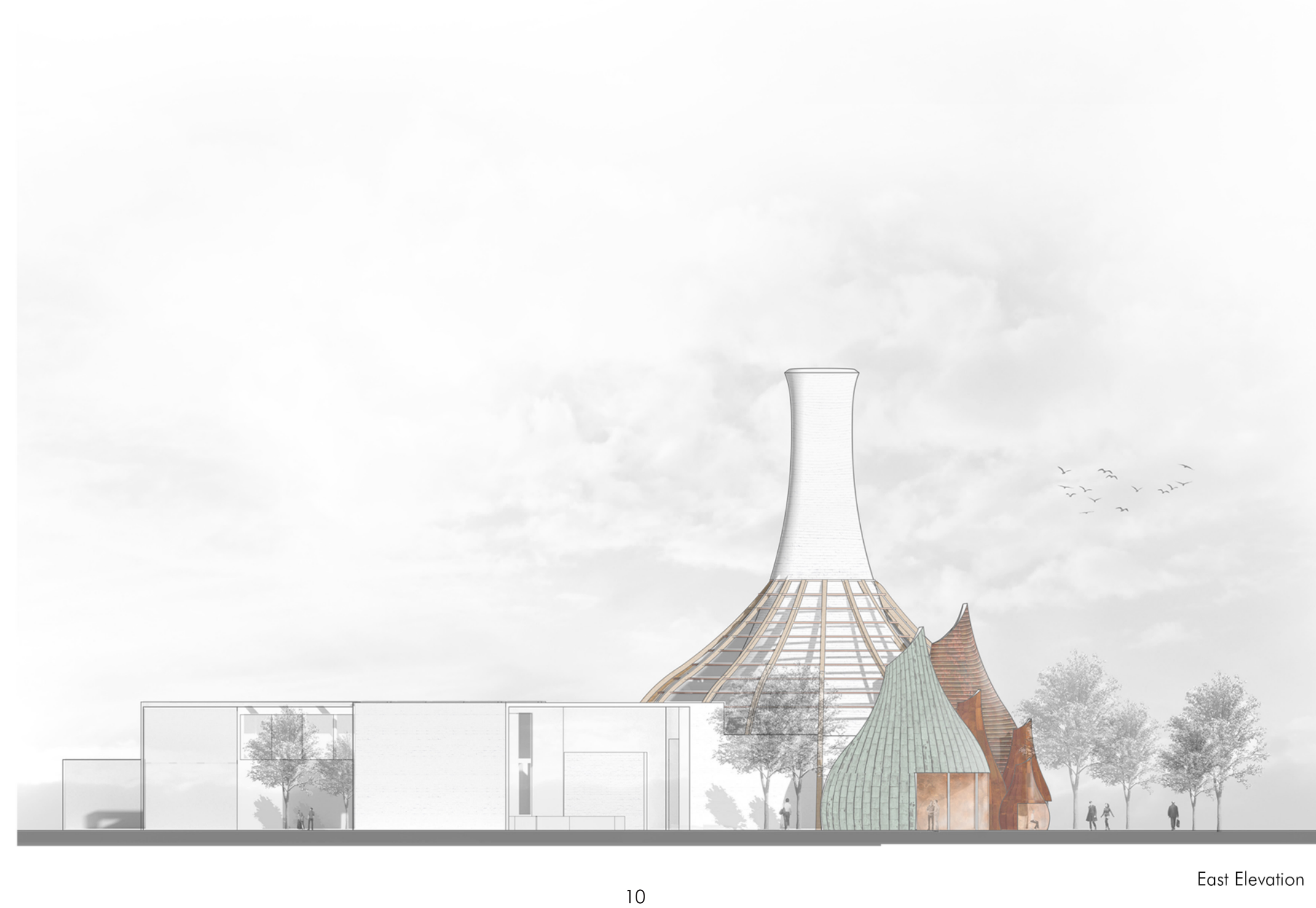
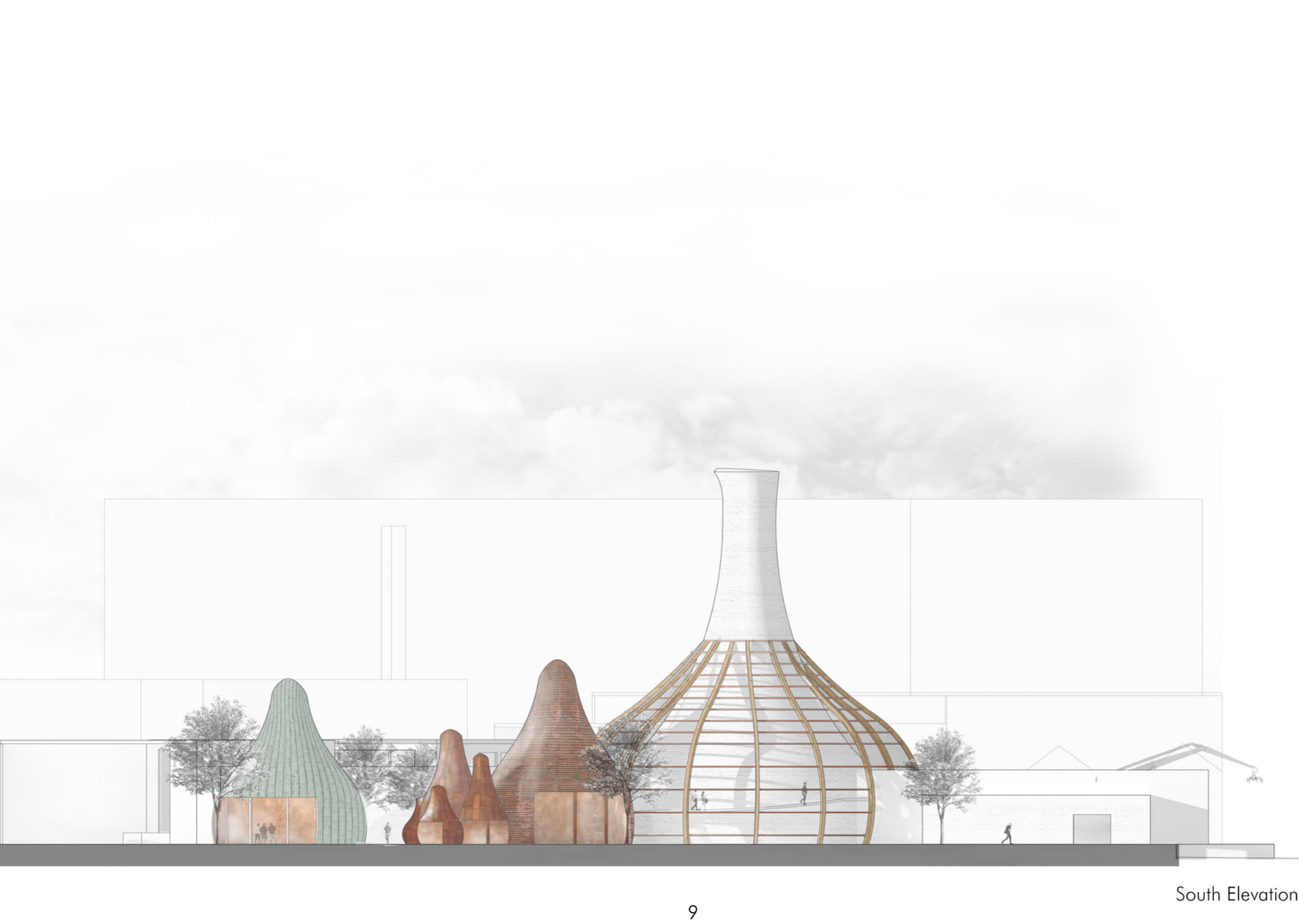


First Floor Plan

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My idea was to design a copper recycling centre that would reclaim this heritage and provide the area with a new industrial heart but with one that facilitates creativity and craftsmanship. The concept allows local industries to work with the material to produce goods and products whilst simultaneously enabling the public to view the copper recycling process up close



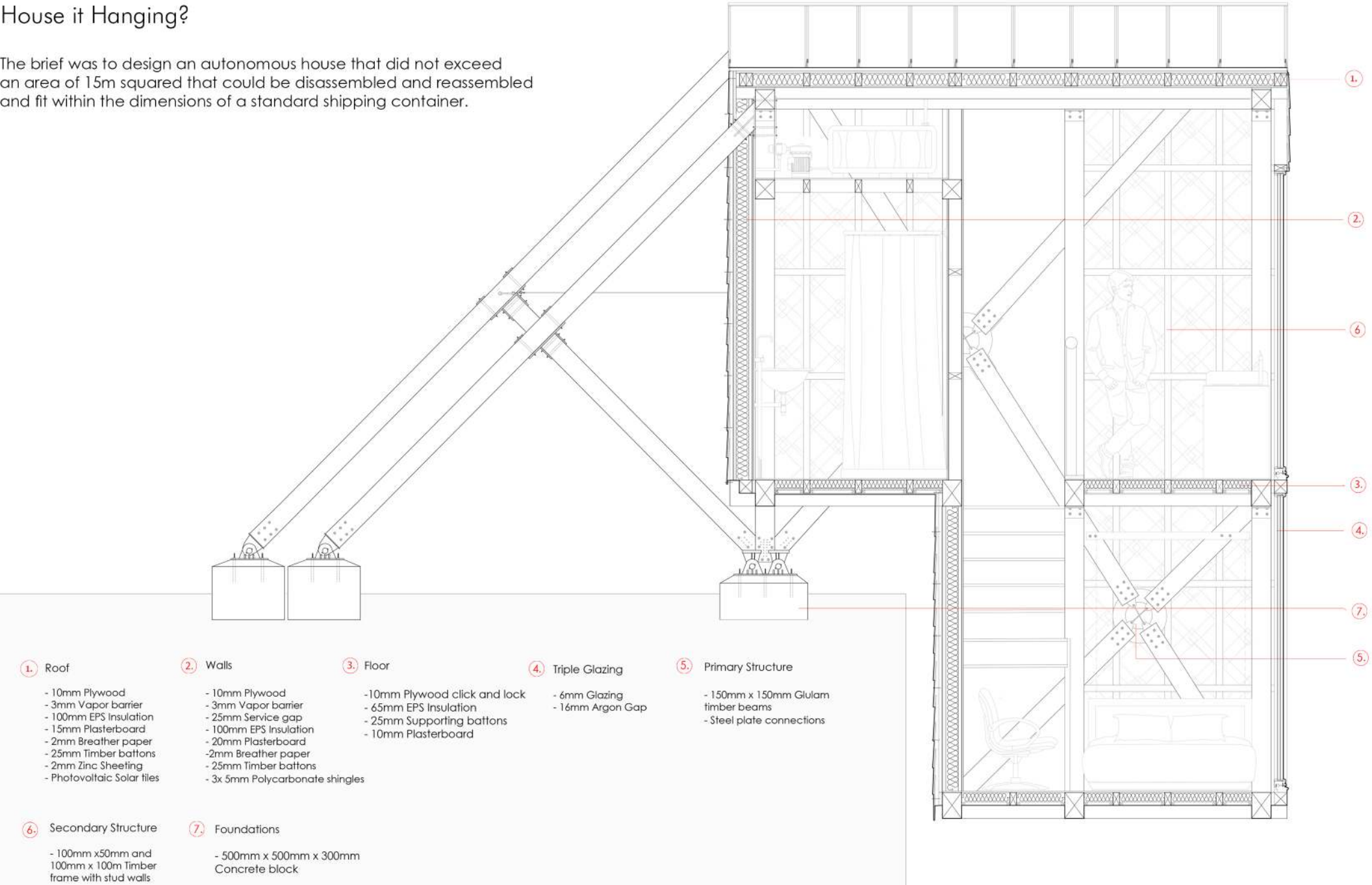




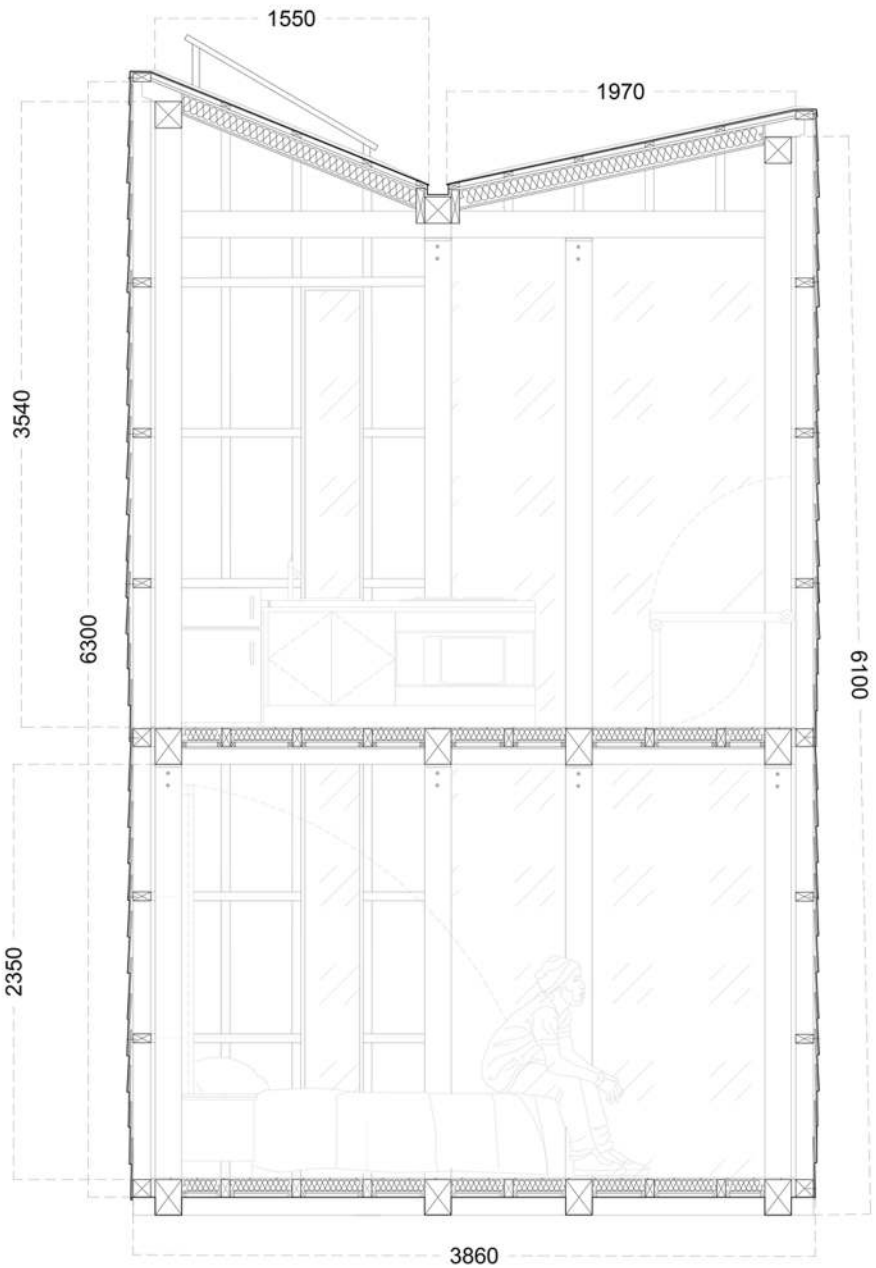
Autonomous House

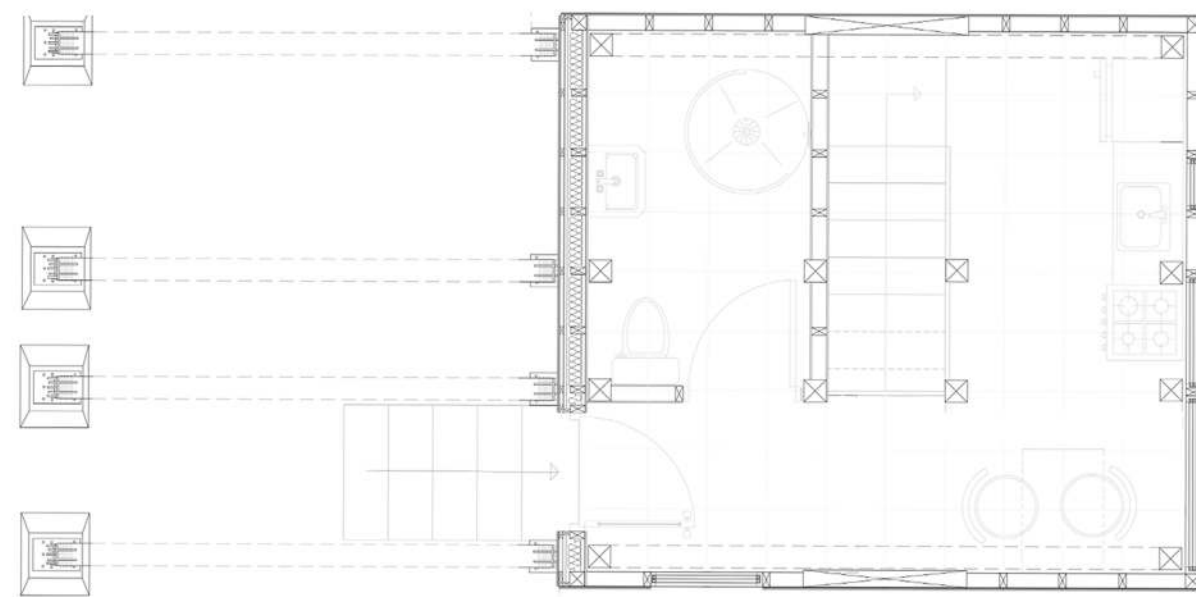
House it Hanging?

The brief was to design an autonomous house that did not exceed an area of 15m squared that could be disassembled and reassembled and fit within the dimensions of a standard shipping container.

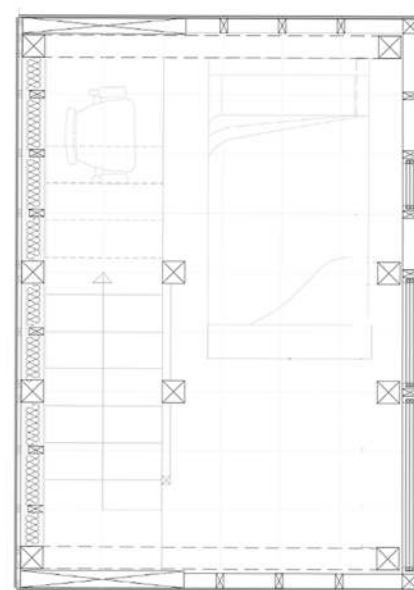


A primary structure of Timber Glulam beams meets a secondary lightweight timber framework with an exterior cladding of translucent polycarbonate shingles exposing the construction beneath. The project is a showcase installation which explores the structural elements of suspension and how it can be paired with sustainable and autonomous housing

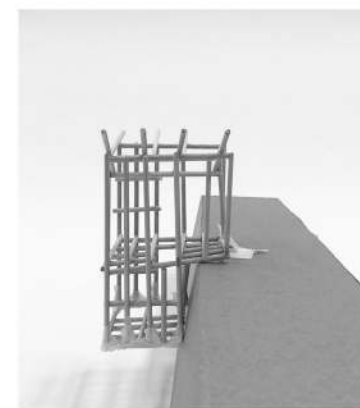
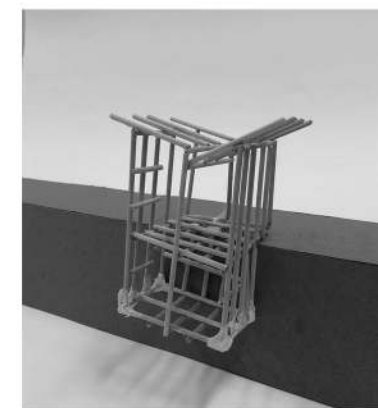
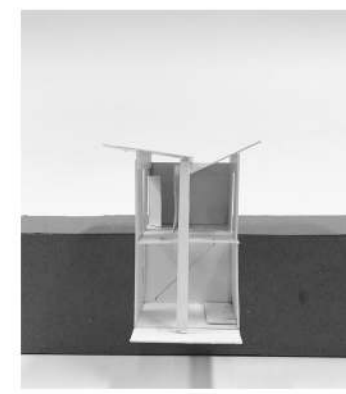
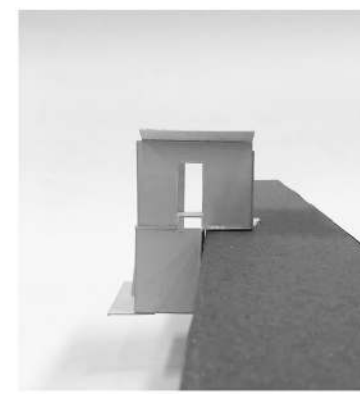
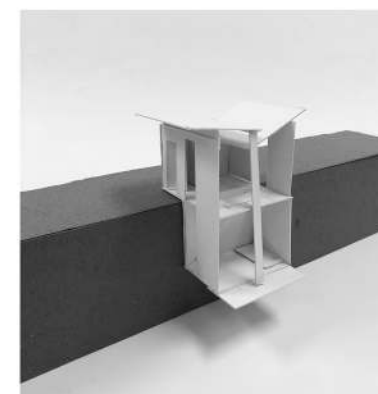
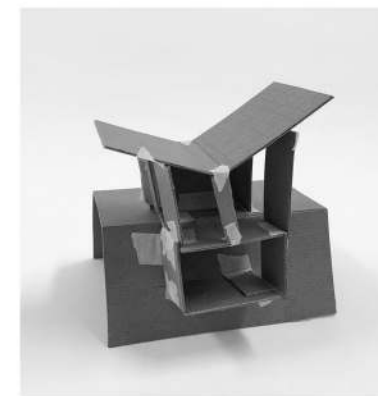




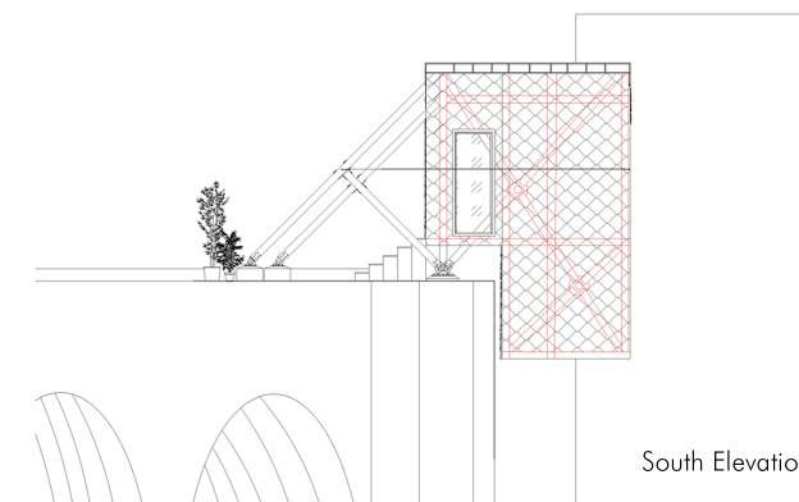
Ground floor plan



Lower floor plan

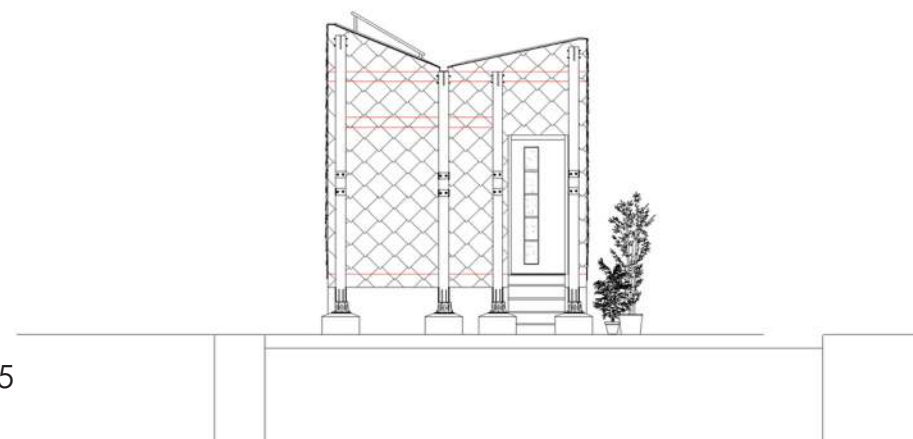


Process Models



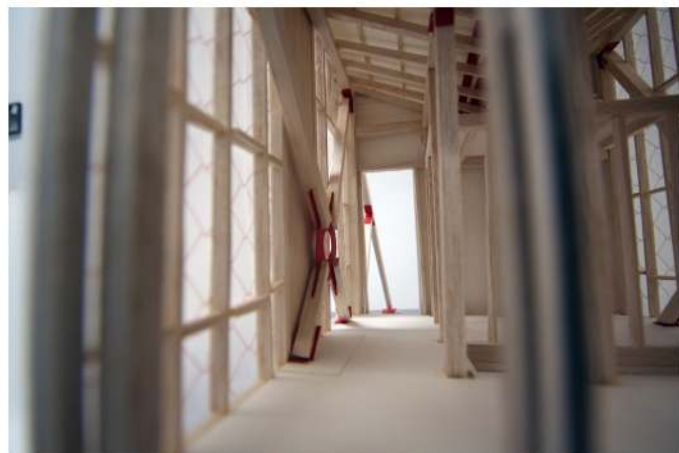
South Elevation

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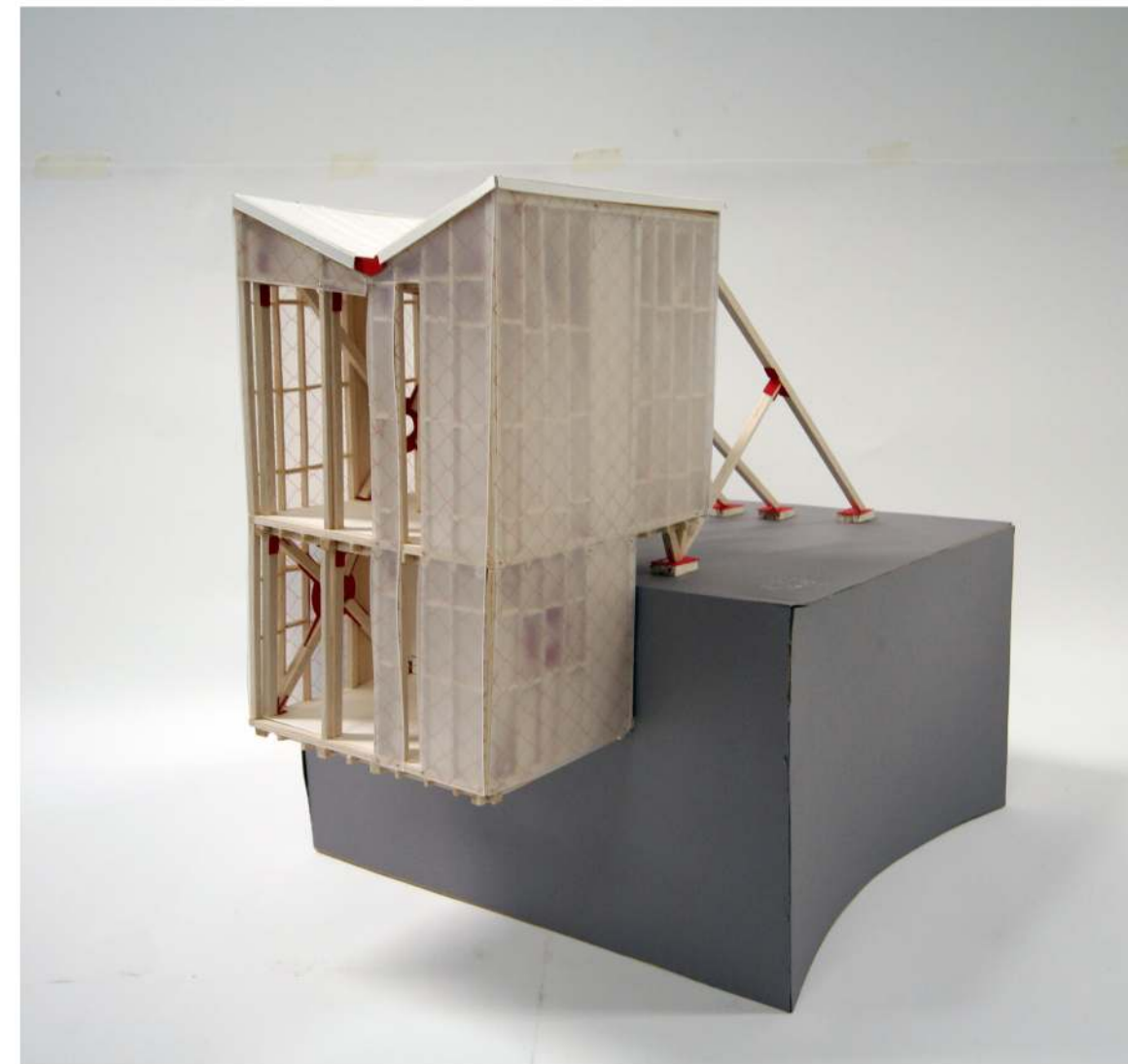
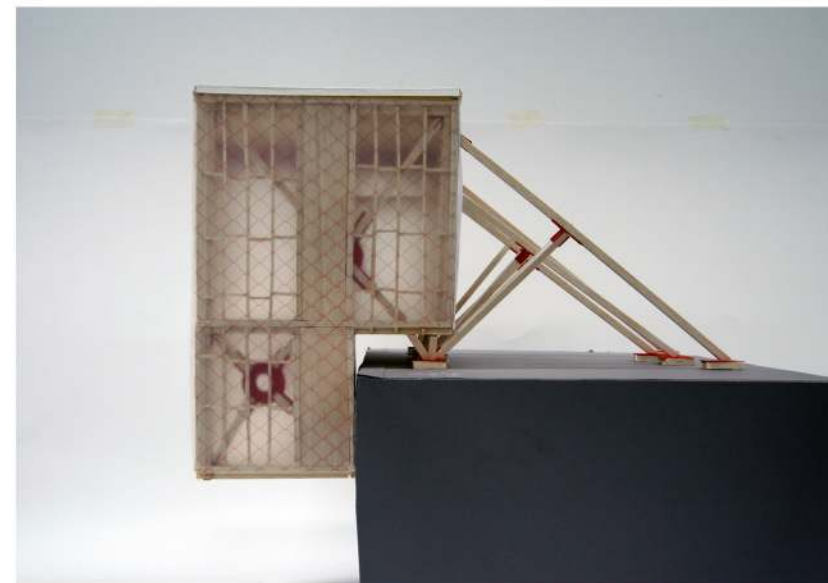


West Elevation

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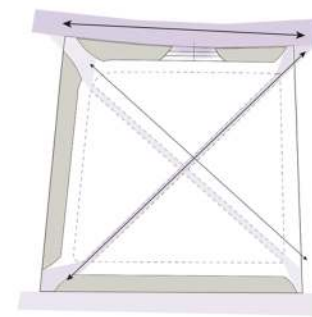
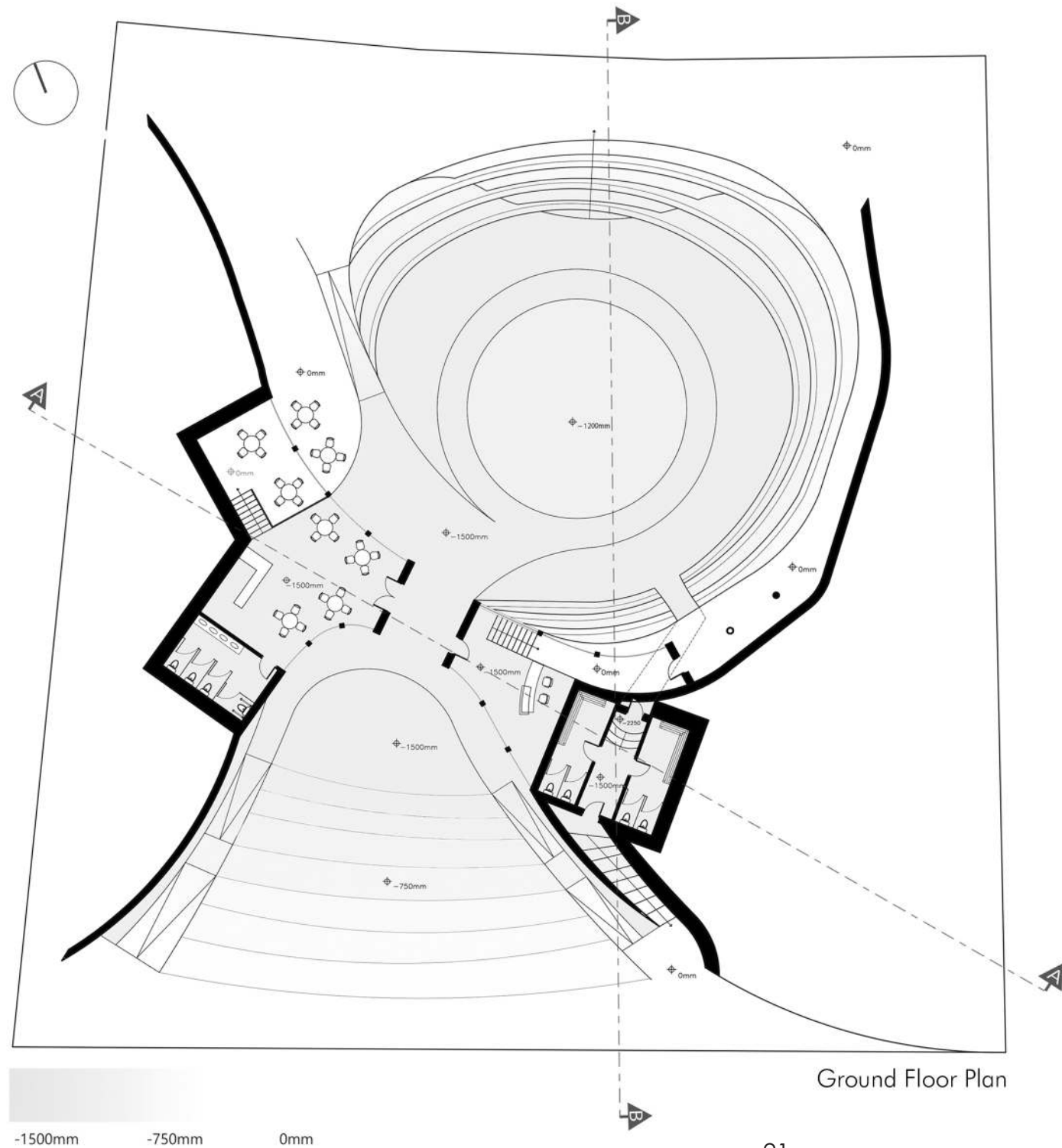
The design aims to challenge the limits of what small autonomous house should be and sets an example of how design and structural technology can merge to create a more intriguing and engaging home experience.



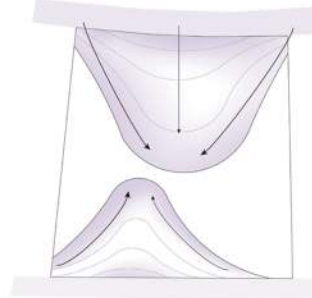
Pinch Pavilion, New Walk, Leicester

Brief was to design an pavilion for new walk museum in Leicester. The pavilion required an amphitheatre seating 150 with standing opportunities for a further 50. The proposal also needed to include facilities such as a café, visitors centre, public toilets and performer changing rooms.

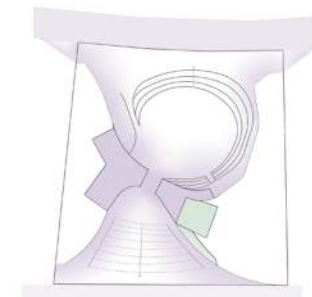




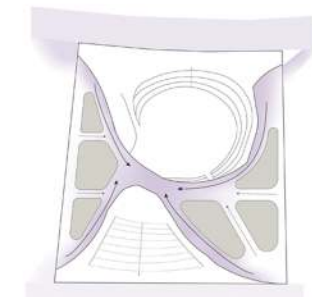
Site Issues



The Pinch

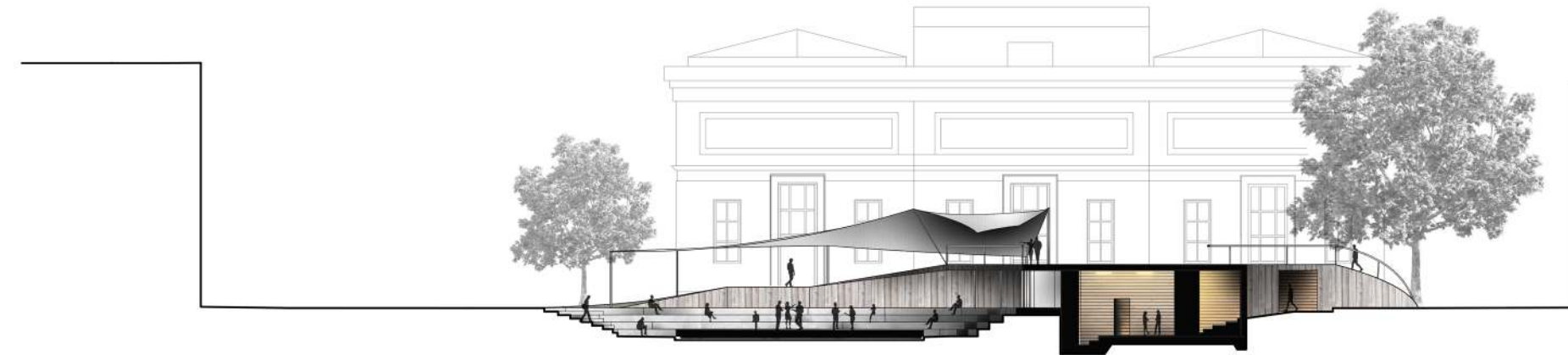


Floor Circulation



Roof Circulation

My approach was to analyse the issues the site faced in terms of engaging the public and devise a solution whereby people would begin to interact with the site a lot more. The big challenge of the site was a large protected oak tree in the centre. My design concept was to pinch the site and form the building around the tree so that it became the focal point. This concept then informed the design of the extra facilities that were built into the new landscape in a way that would draw people in.

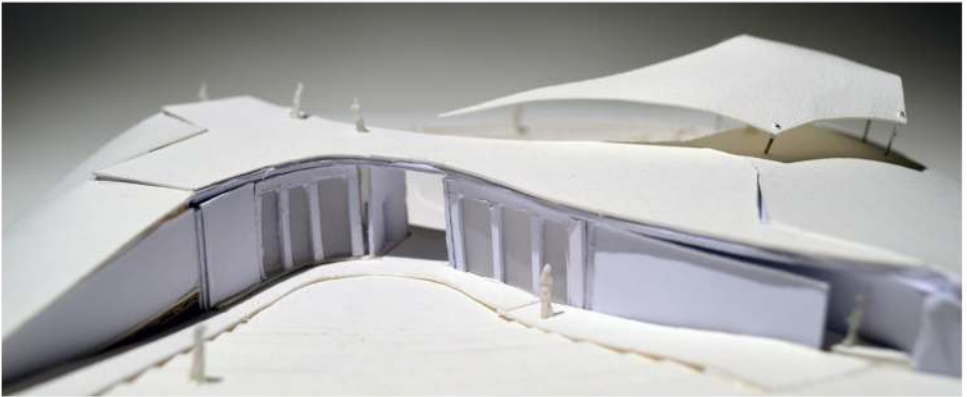
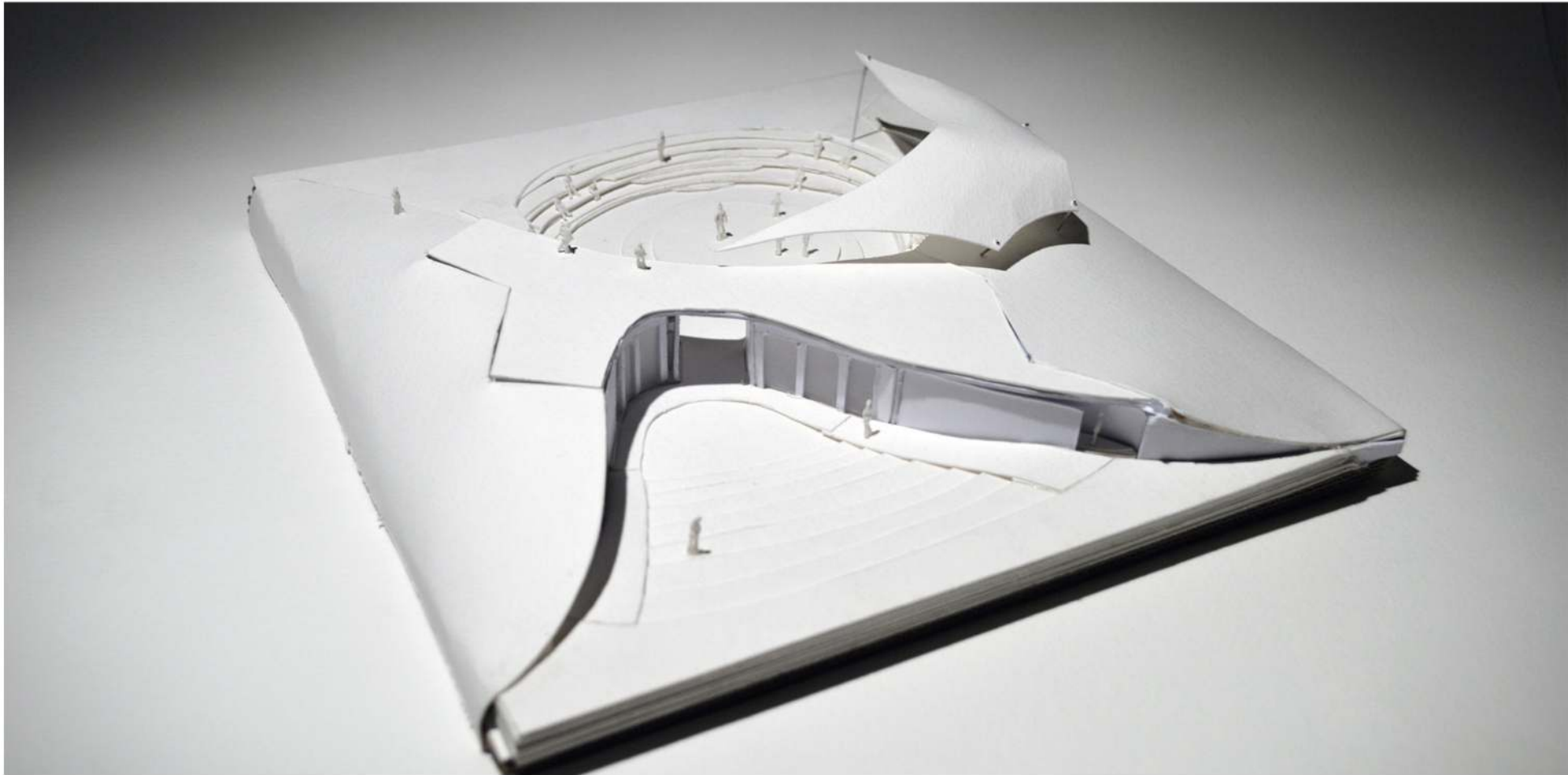
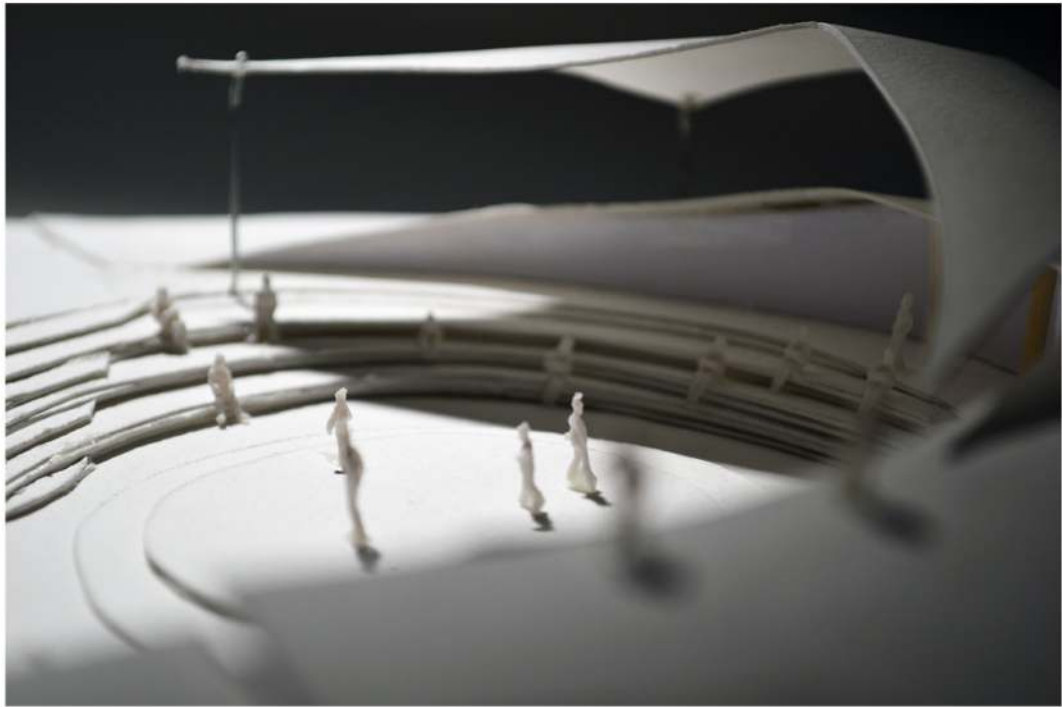


Section A



Section B

Another important aspect of the design was to maintain the green footprint of the site. This was achieved by incorporating a turfed sloping roof that was accessible from the corners of the site. This roof garden was also a viewing platform for the amphitheatre below.



Simplicity

This project was to produce four high quality renders of an existing small building through a variety of 3D modelling programmes and rendering software.



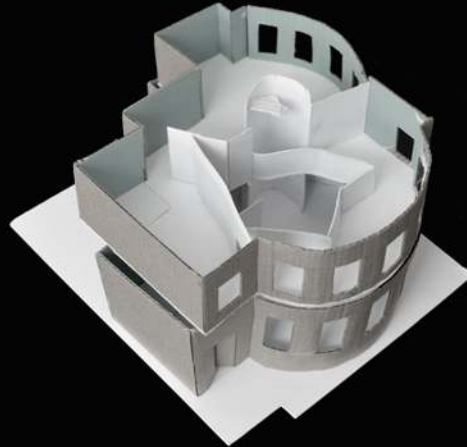
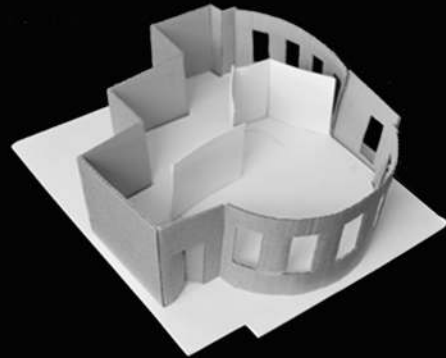
Pizzeria Folly Welford Road, Leicester

The folly intervention into a pizzeria restaurant in Leicester was designed to convert the building into a single journey experience. The intervention blocked off paths and forced the customer on a journey around the buildings to games rooms and lounges they may have previously missed while offering glimpses of what is to come.

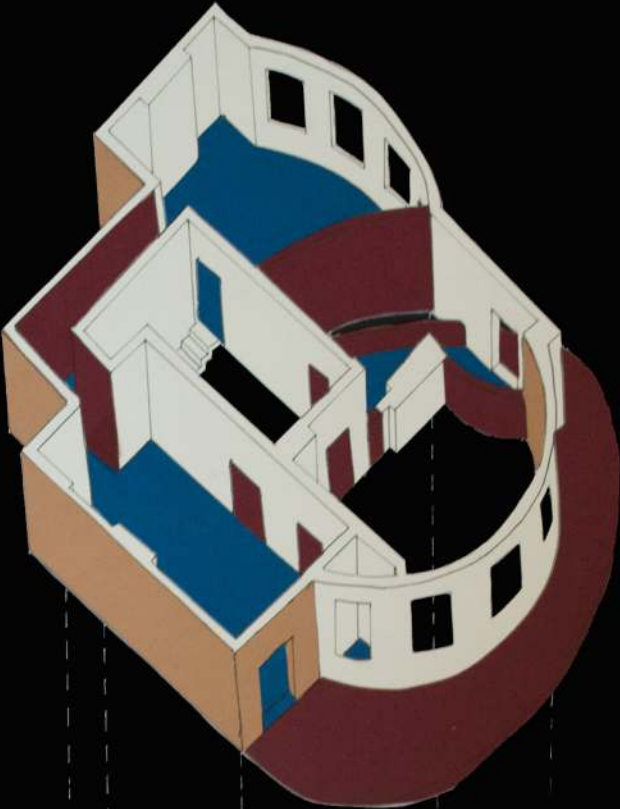
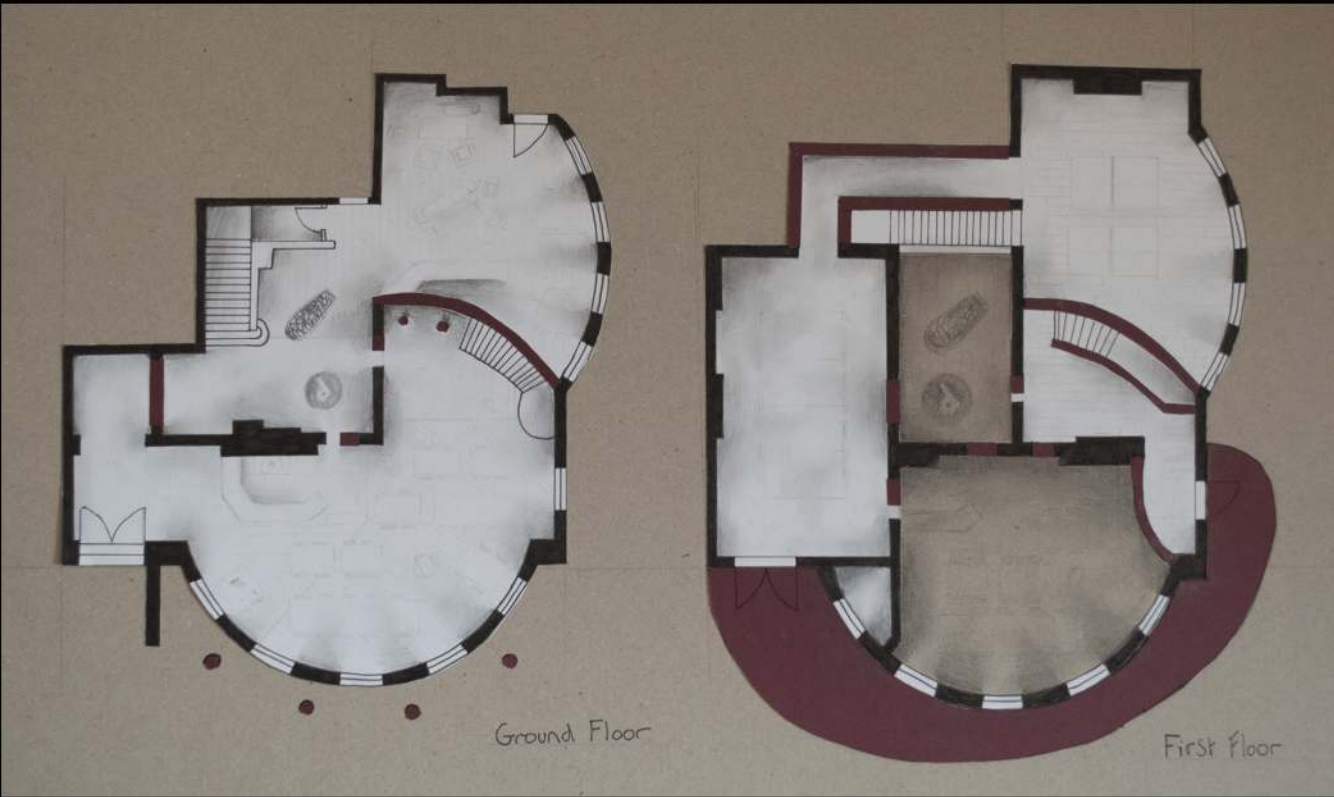
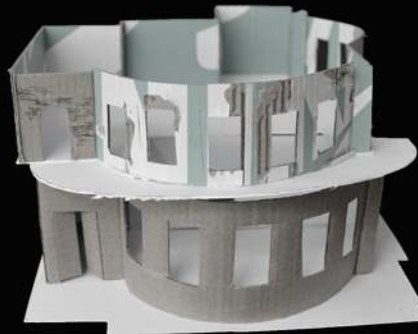
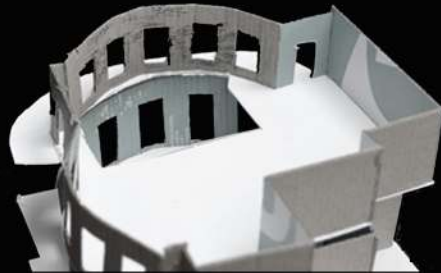
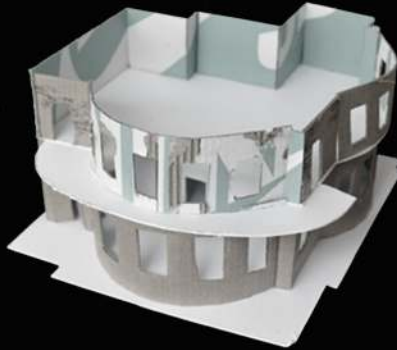


Resin Model

Scratch Model 1



Scratch Model 2



Plan Oblique

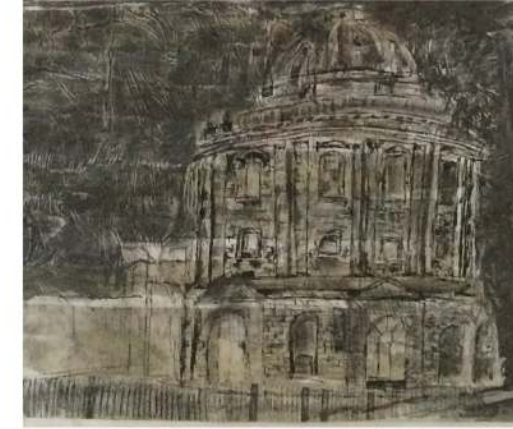
Sams's Sketches

Sam's Sketches. is my business where I produce bespoke hand drawn sketches of houses and local landmarks from commission.





Montage of contrasting manmade structures (Hoover Dam) vs Natural Structures (Grand Canyon) in acrylic paint



London Nightscape
Oli Paint