

PORTFOLIO

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RENDER OF PERFORMANCE VENUE, CONWY

INTRODUCTION

A motivated, efficient and positive RIBA Part 1 architecture student seeking new experiences to apply and expand existing knowledge of the architecture industry. Highly attentive to detail in both hand-drawings and digital programmes, I am interested in enhancing these skills working in a professional collaborative environment.

The following portfolio contains three projects completed during my BA (Hons) Architecture degree at The University of Huddersfield. Reflecting a series of commercial development projects, my portfolio emphasises my interest in urban regeneration and larger scale projects, although I am also intrigued by residential developments.

PROJECTS

Koh Ceramics and Art Gallery, Melaka, Malaysia
Undergraduate third year

Perllan Theatre, Conwy, North Wales
Undergraduate third year

Highfields Health and Community Centre, Huddersfield
Undergraduate second year



VIEW OF CERAMIC ART GALLERY IN CONTEXT FROM MELAKA OBSERVATION DECK

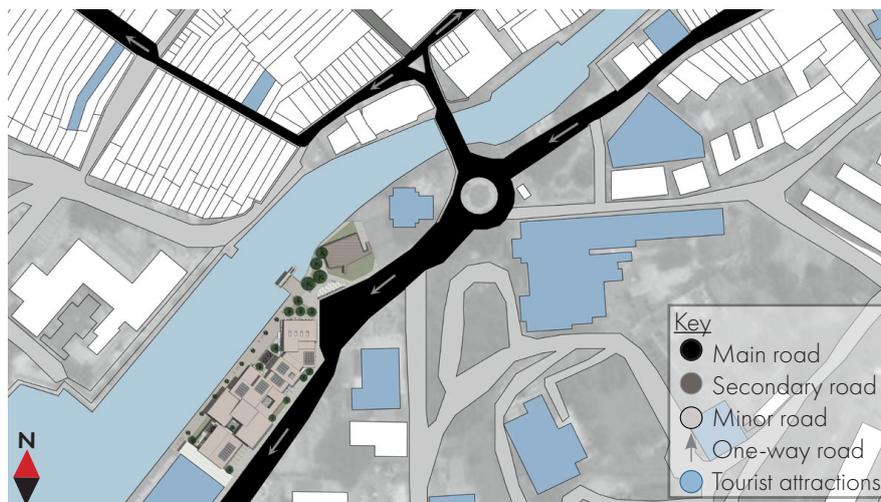
Undergraduate third year

KOH CERAMICS AND ART GALLERY, MALACCA

Choosing the international option of the architecture undergraduate degree provided the opportunity to travel to the historic city of Malacca in Peninsular Malaysia to study the local architecture and carefully design a building responding to people, place and context.

Malacca elucidates a rich and diverse heritage stemmed from its primitive past, representing 500 years of development in trading and cultural exchanges in the region, and the invasion of three successive European colonial powers which contributed to an array of cultural and religious influences in the region. Today, the city represents a UNESCO World Heritage site.

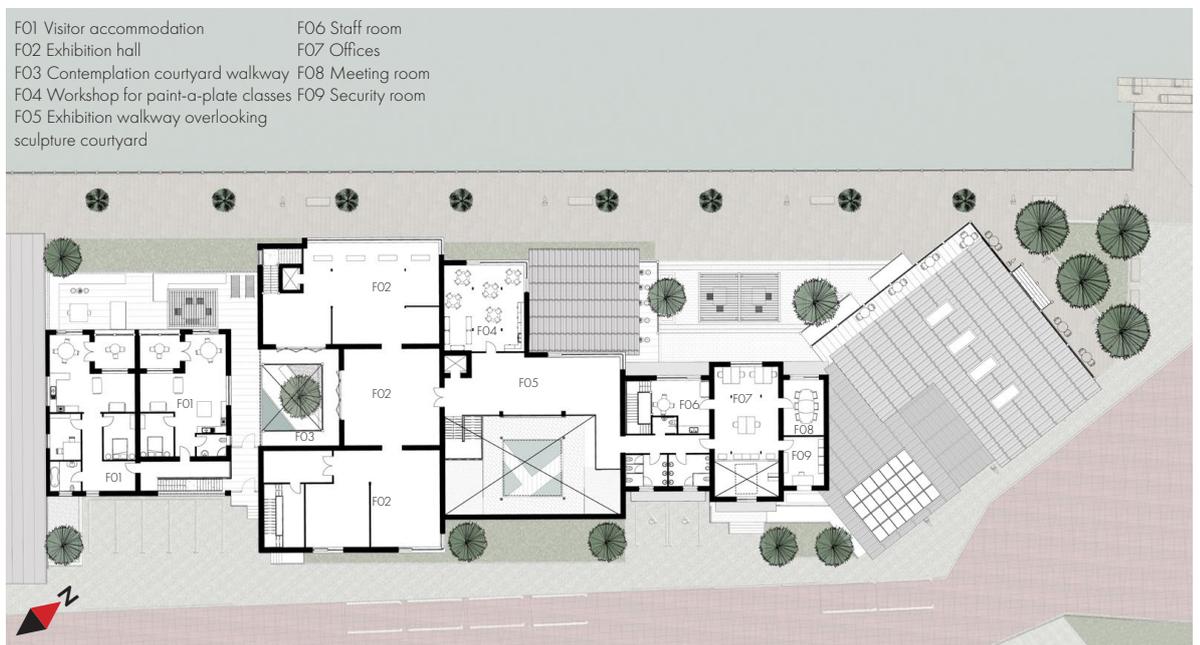
The project aim is to develop an innovative architectural design proposal expressing a narrative of your choosing, whilst responding to the physical context and the social, economic and cultural context of Malacca. Inspired by the city's long tradition of decorative arts, the selected building typology is a contemporary ceramics and art gallery.



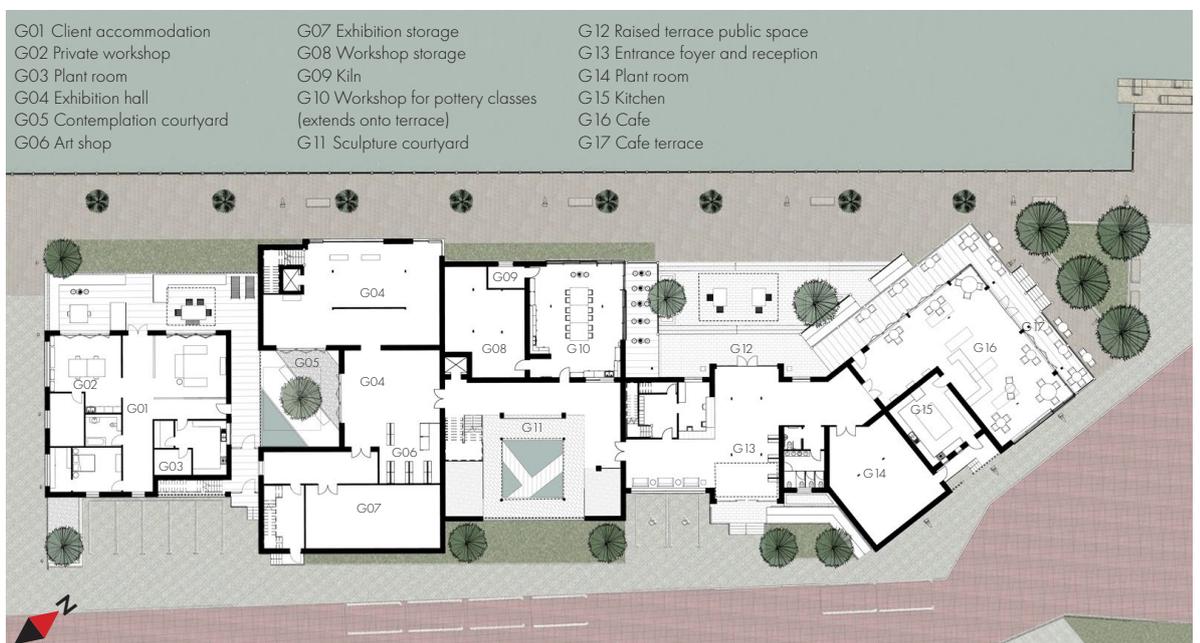
LOCATION PLAN OF SITE

Concept

Generally, the area surrounding the site does not display a specific architectural style or colour scheme, therefore the concept focuses on developing a unique style that fits into the surroundings and Malacca as a whole. Inspired by terraced housing that outlines Malacca's typical streets, the design aims to replicate their distinct characteristics in order to develop a sense of rhythm and hierarchy to break up the linear spatial organisation of the site whilst carefully responding to the architectural context. Notably, the site is divided into five uniform volumes of varying depths and heights, each with a different function such as the entrance foyer, gallery and cafe. Each volume has its own unique roof organisation to reflect the variety of Malaccan roof styles indicated in the urban landscape, with thoughtful passive environmental design strategies to respond to the equatorial climate such as overhanging pitches and courtyards.



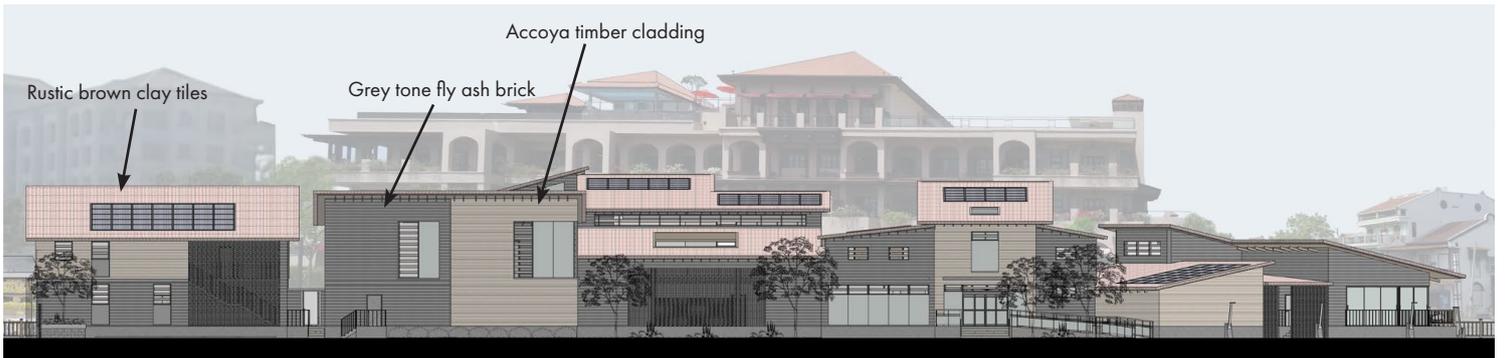
FIRST FLOOR PLAN



GROUND FLOOR PLAN



NORTH-WEST ELEVATION



SOUTH-EAST ELEVATION



ROADSIDE ENTRANCE TO CERAMIC ART GALLERY



VIEW OF CERAMIC ART GALLERY FROM ACROSS THE RIVER MELAKA



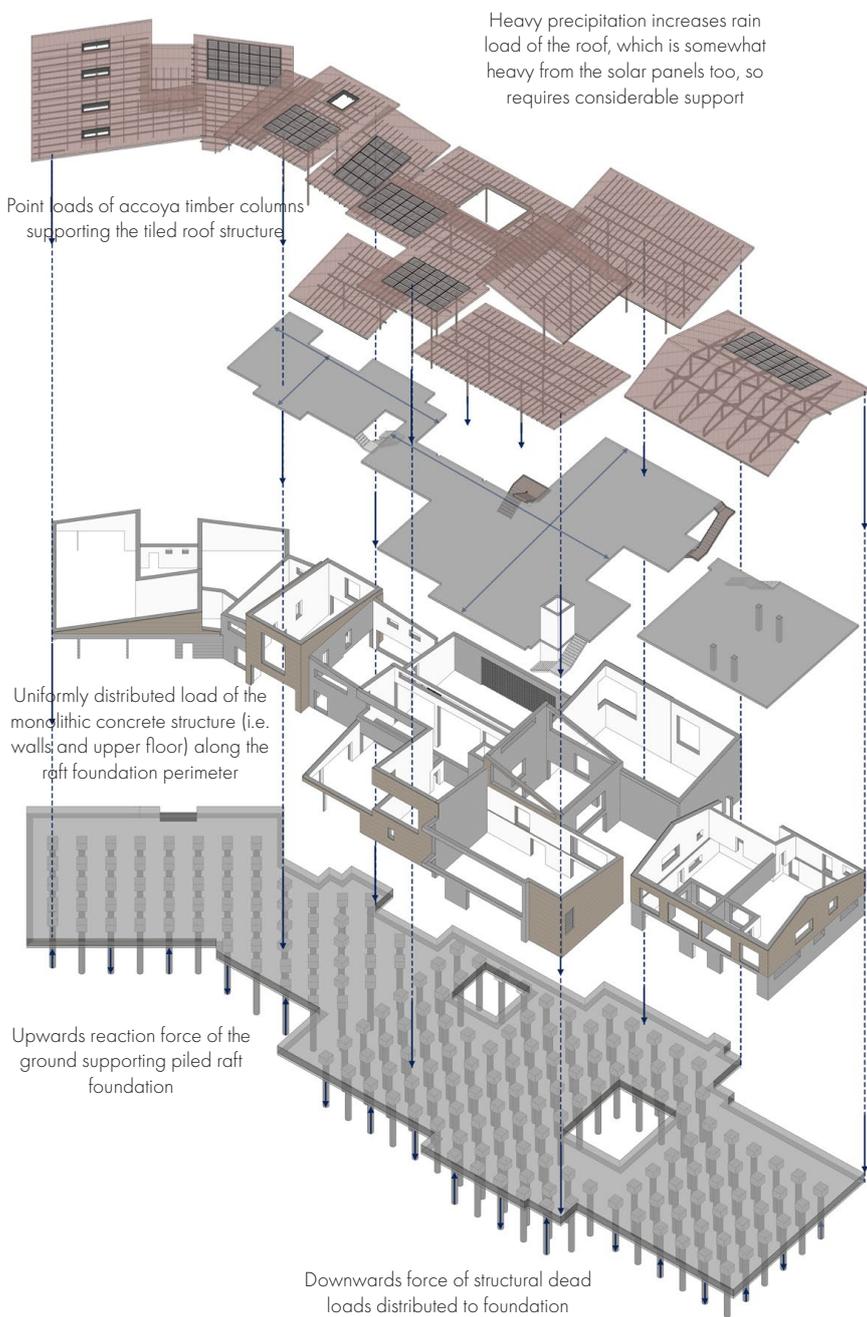
SCULPTURAL COURTYARD SERVING AS A REFRESHING, COOLED TRANSITIONAL SPACE



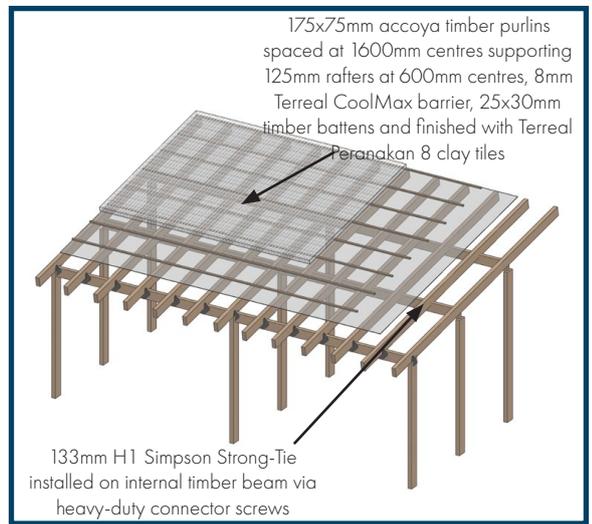
REMARKABLE WIDE VIEW OF THE RIVER MELAKA FROM UPSTAIRS CERAMIC EXHIBITION SPACE



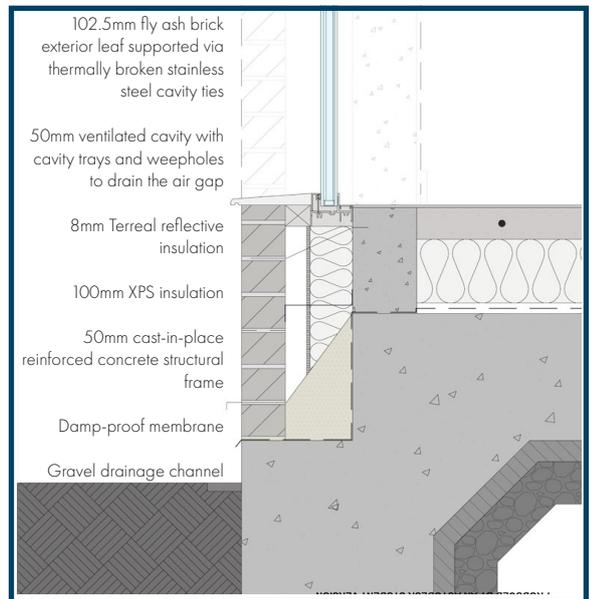
MAIN CERAMIC ART WORKSHOP SPACE FOR POTTERY CLASSES, EXTENDING OUT TO THE RAISED TERRACE



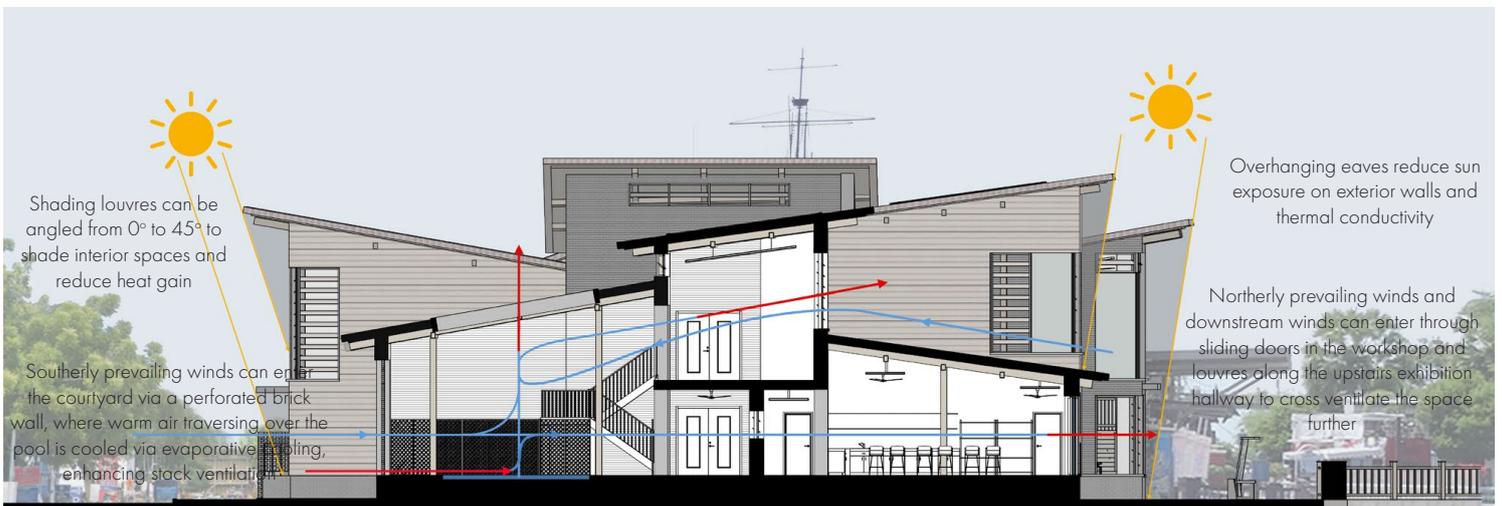
EXPLODED AXONOMETRIC OF BUILDING STRUCTURE SHOWING LOADS



SUPPORTIVE TIMBER COLUMN AND ROOF STRUCTURE CONNECTIONS



DETAIL OF FOUNDATION TO WALL AND FLOOR CONNECTIONS, FOCUSING ON THE CAVITY WALL STRUCTURE, SCALE 1:5



SECTION THROUGH THE SCULPTURAL COURTYARD SHOWING NATURAL VENTILATION STRATEGY



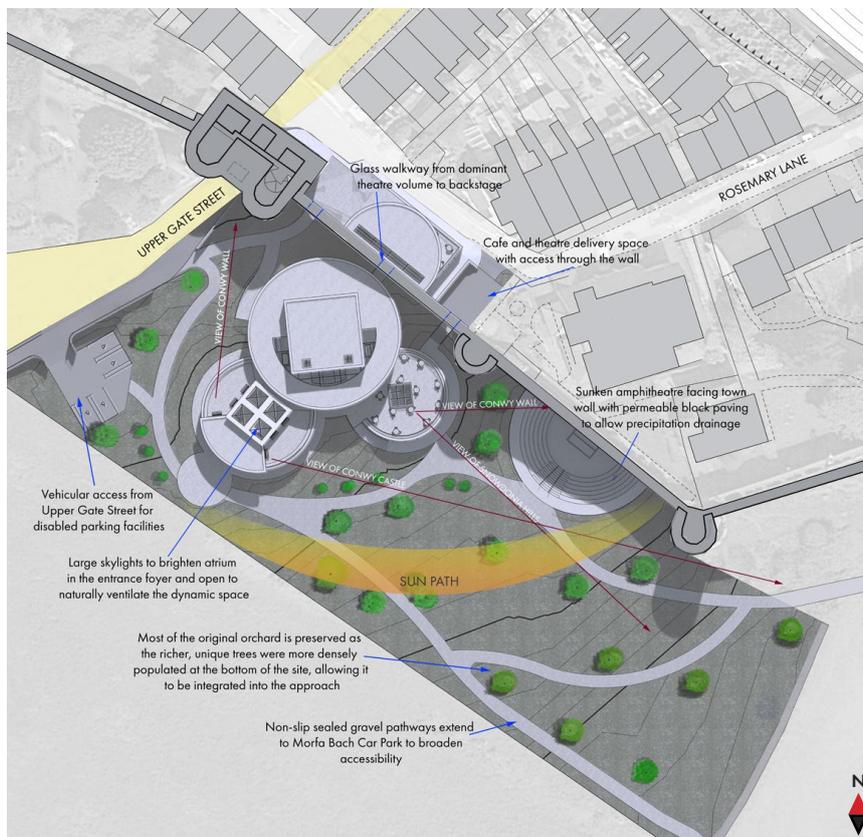
VIEW OF PERFORMANCE VENUE FROM SOUTH-EAST

Undergraduate third year

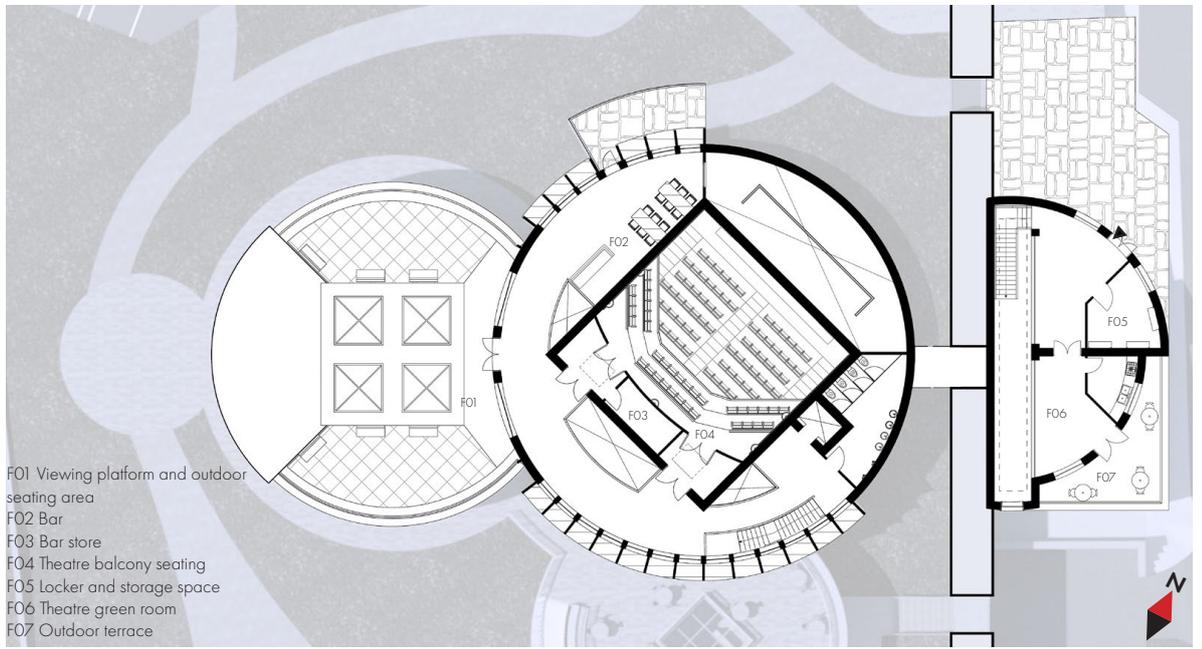
PERLLAN THEATRE, CONWY

Situated on the periphery of north-west Wales along the coastline lies Conwy, a market town entirely encircled by its monumental thirteenth-century castle and walls. The quaint town is immersed with a rich heritage largely associated with King Edward I's 13th Century masterpiece: Conwy Castle. The site lies on a steep hill and rich orchard to the south-west of the town's walls.

The brief outlines that a performance venue, including small recital space, medium sized theatre and large outdoor performance space, is to be designed in Conwy and must connect to the town walls which encircle the historic location.

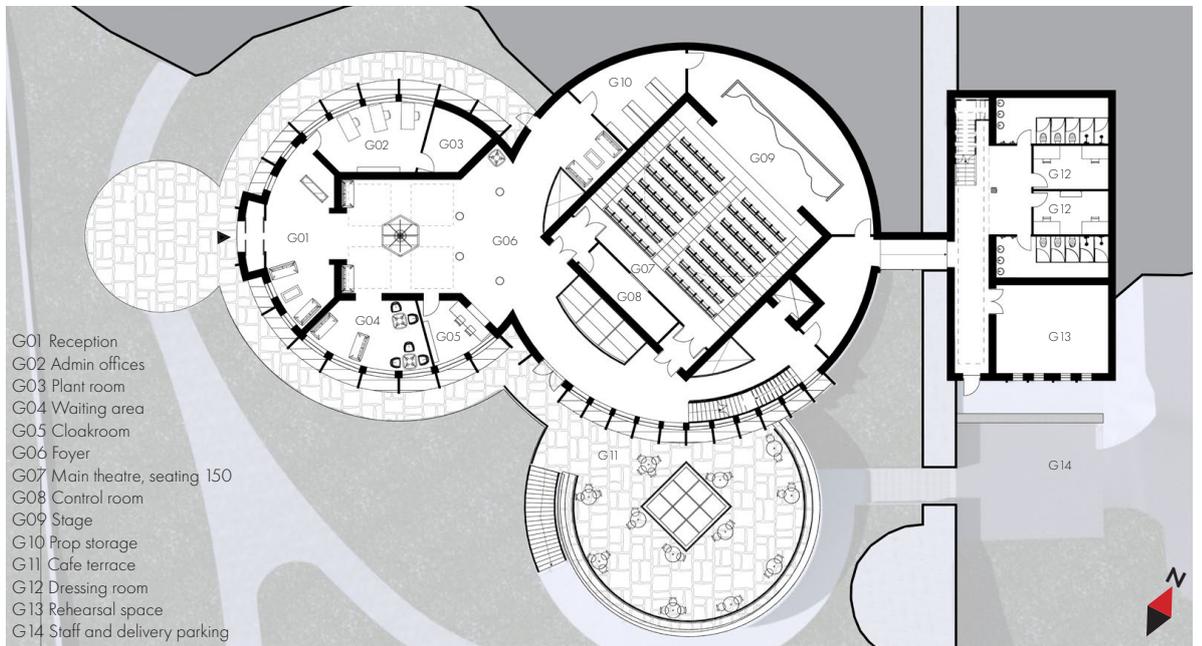


SITE PLAN



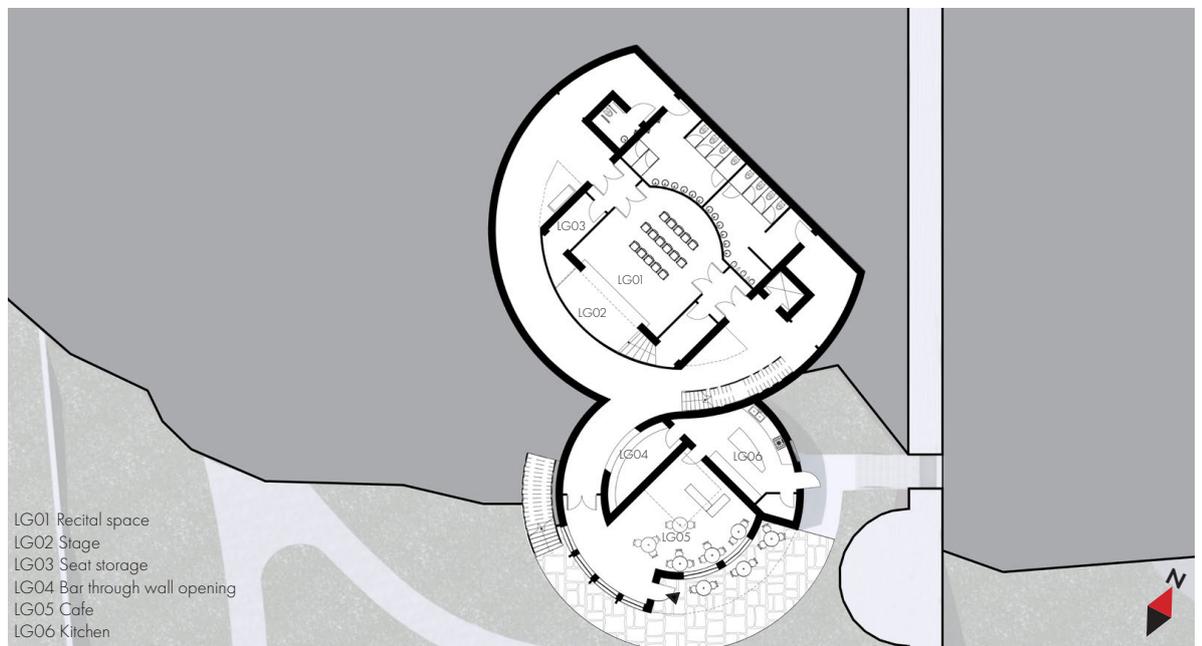
- F01 Viewing platform and outdoor seating area
- F02 Bar
- F03 Bar store
- F04 Theatre balcony seating
- F05 Locker and storage space
- F06 Theatre green room
- F07 Outdoor terrace

FIRST FLOOR PLAN



- G01 Reception
- G02 Admin offices
- G03 Plant room
- G04 Waiting area
- G05 Cloakroom
- G06 Foyer
- G07 Main theatre, seating 150
- G08 Control room
- G09 Stage
- G10 Prop storage
- G11 Cafe terrace
- G12 Dressing room
- G13 Rehearsal space
- G14 Staff and delivery parking

GROUND FLOOR PLAN



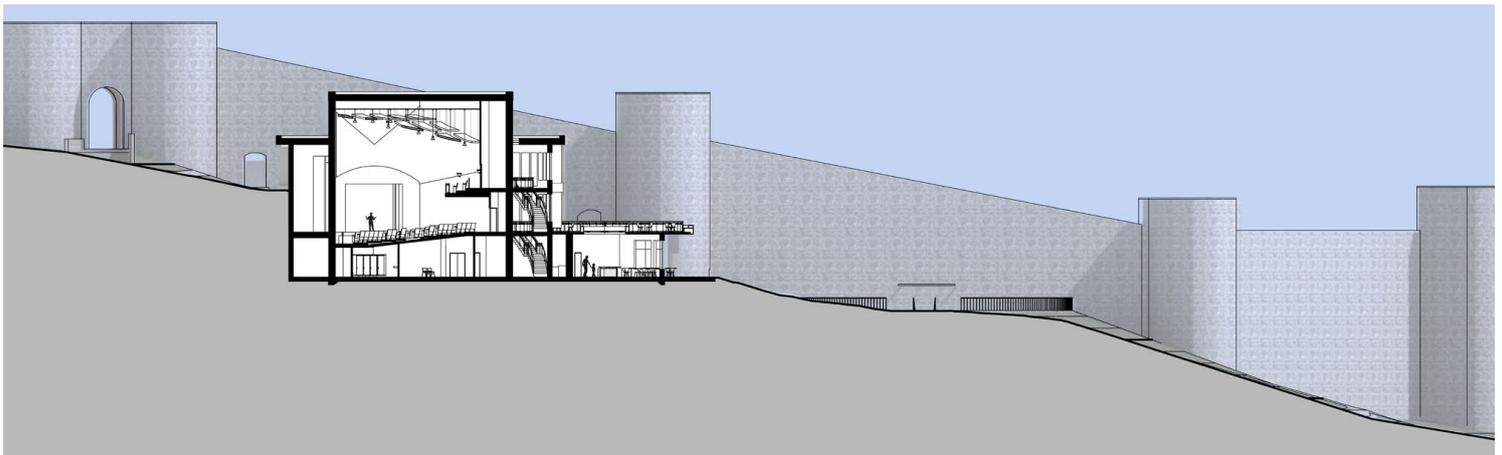
- LG01 Recital space
- LG02 Stage
- LG03 Seat storage
- LG04 Bar through wall opening
- LG05 Cafe
- LG06 Kitchen

LOWER GROUND FLOOR PLAN

Concept

Medieval heritage is significant to Conwy's cultural identity, particularly Conwy Castle, which has provided much inspiration to the concept of the performance venue. Three interlocking cylindrical forms represent the assembly of towers and turrets in medieval castles, each with a different relative level to mimic the hierarchy of these towers.

The inner stronghold of a castle, the keep, represents an immense square volume that is well protected. Thus, within the largest cylindrical form there is an exposed dominant cubic volume that lies at the same height as the nearest wall tower. Reflecting the precise and consistent rhythm of merlons and crenels along parapets in castle architecture, the timber façade replicates the equal distribution of solids and voids, where the voids allow daylight into the structure.



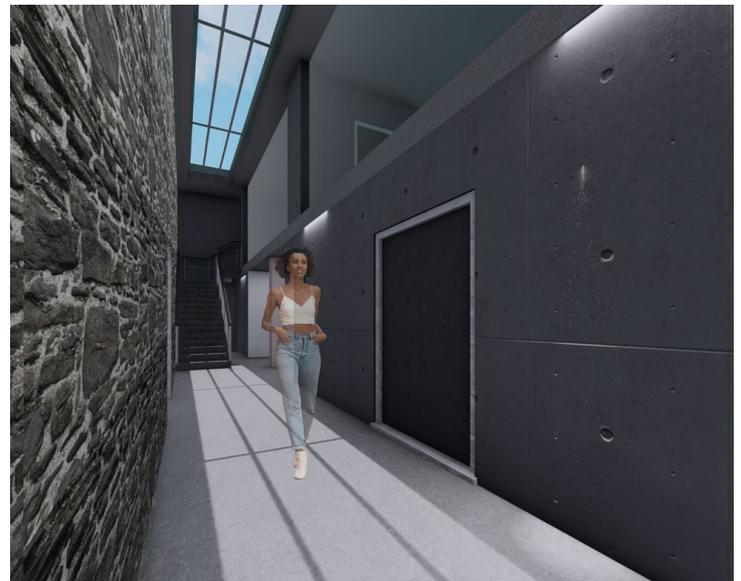
SECTION FROM NORTH TO SOUTH THROUGH THEATRE VOLUME



SECTION FROM SOUTH TO NORTH THROUGH THEATRE BACKSTAGE VOLUME



THEATRE BACKSTAGE EXTERIOR



THEATRE BACKSTAGE INTERIOR WITH EXPOSED WALL



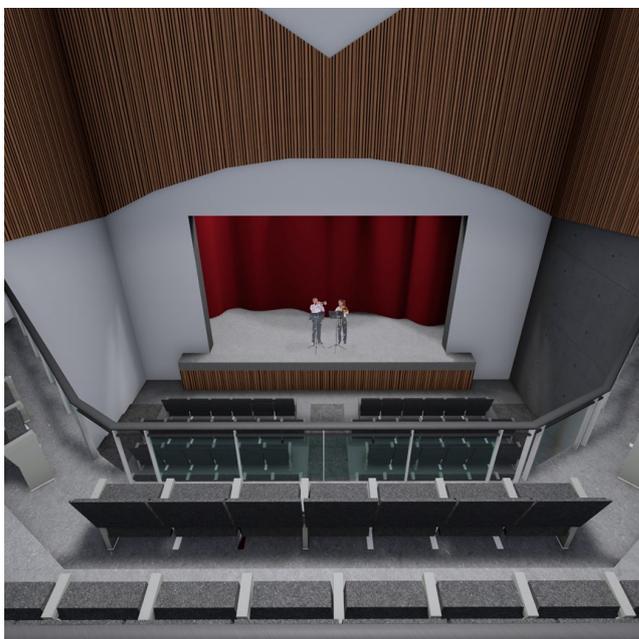
VIEW FROM THE WEST OF THE SITE DURING THE MORNING



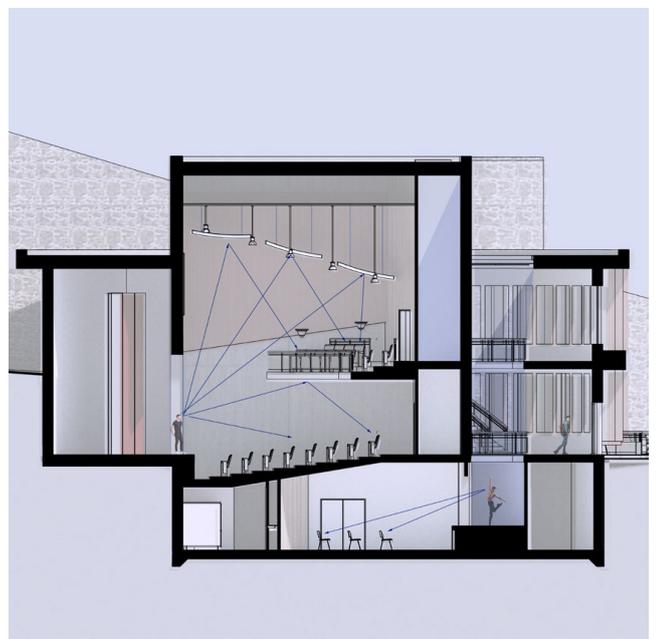
ENTRANCE ATRIUM SPACE



SMALL RECITAL SPACE



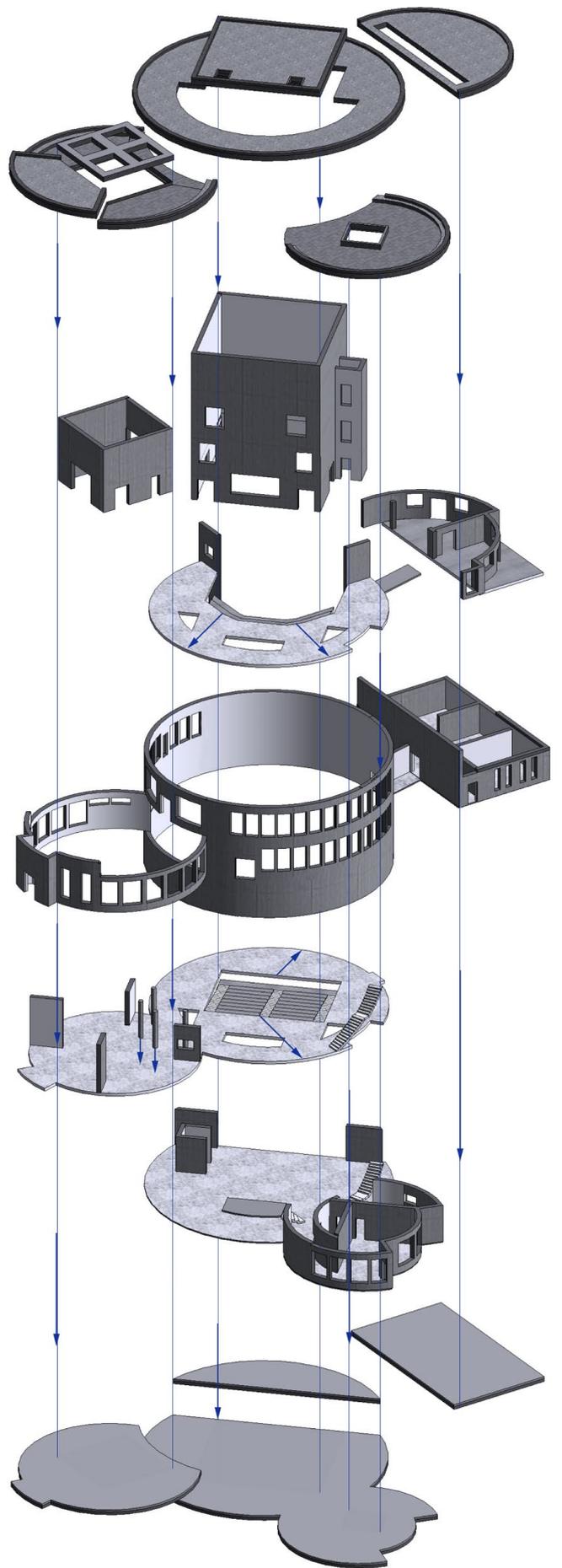
LARGE THEATRE SPACE FROM BALCONY



THEATRE AND RECITAL ACOUSTIC DIAGRAM



CONSTRUCTION DETAIL



EXPLODED STRUCTURAL STRATEGY



archimedes screw
flows in the
the river can
almost anywhere

road view of lands
becomes visible as you
pass under the street
walkway

INTERCONNECT
TUNNELS

access from site

ARTIFICIAL RIVER FLOWS
DOWN SITE + WATER IS
BACK TO SOURCE USING
ENERGY GENERATED BY
ARCHIMEDES SCREW

wind from south
to west enters site in
spaces between vegetation buffers

noise from traffic along

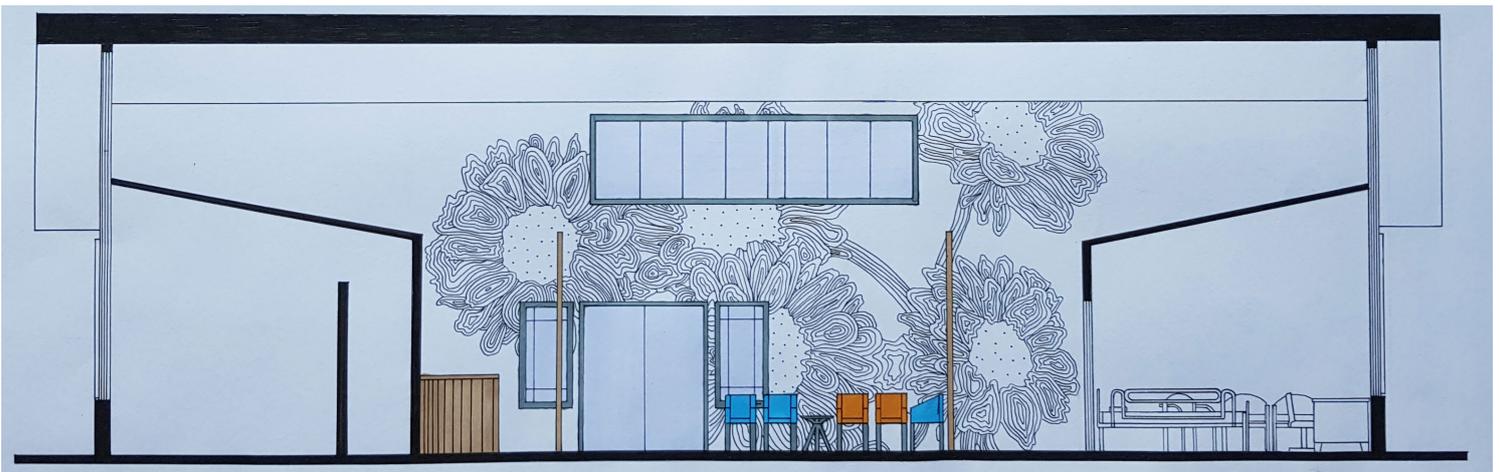
SITE PLAN

Undergraduate second year

HIGHFIELDS HEALTH AND COMMUNITY CENTRE, HUDDERSFIELD

Significant to the town's architectural history, the brownfield site encloses the former Huddersfield Technical College and offers an exposed location beside the prominent Castlegate ring road which encircles Huddersfield town centre. Targeted towards the needs of local people, the brief requires a health and community centre to be built, following the schedule of accommodation provided, including a GP surgery, office spaces, and community hall; with significant consideration of the urban landscaping and access to the site.

This project explores several elements of architectural design, including design of an urban public space, deeper integrated technology understanding, and interior design.



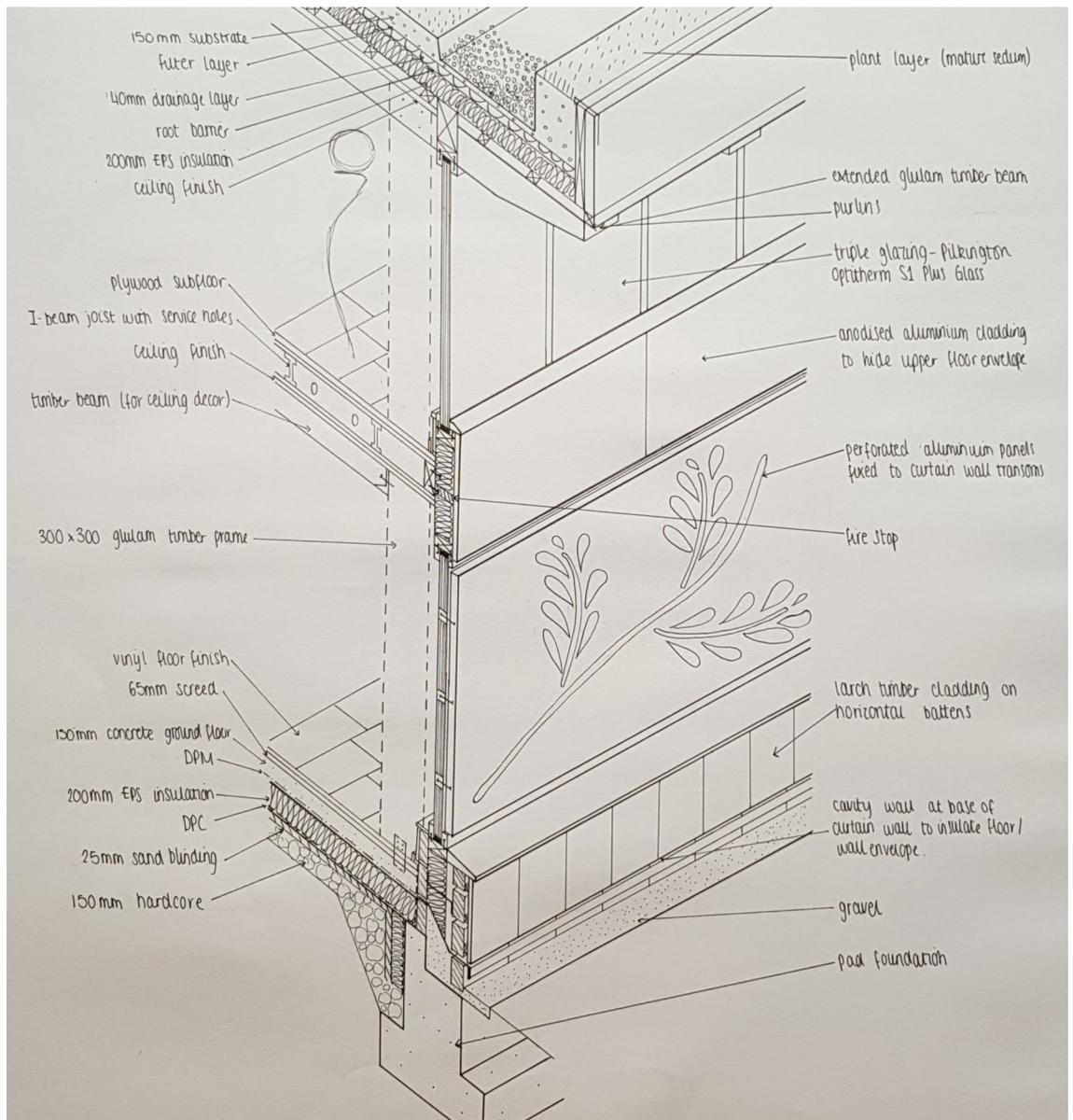
SECTION THROUGH HEALTH CENTRE SHOWING FLORAL MURAL WALL

Concept

The design concept focuses on creating a natural, green and calming environment to create a positive atmosphere and promote health and wellbeing, complementing the health centre typology. Influenced by the relaxing environment of the seaside and its shallow constructive waves calmly reaching shore, the asymmetrical wave roof aims to illustrate a moving wave which peaks on the east elevation to offer a welcoming entrance into the event space. The green roof is supported by glulam timber beams, and the timber clad and glass facade is created via a curtain wall system.



SOUTH ELEVATION



ISOMETRIC CONSTRUCTION SECTION



FLOOR PLANS



ISOMETRIC PROJECTION OF HEALTH AND COMMUNITY CENTRE

