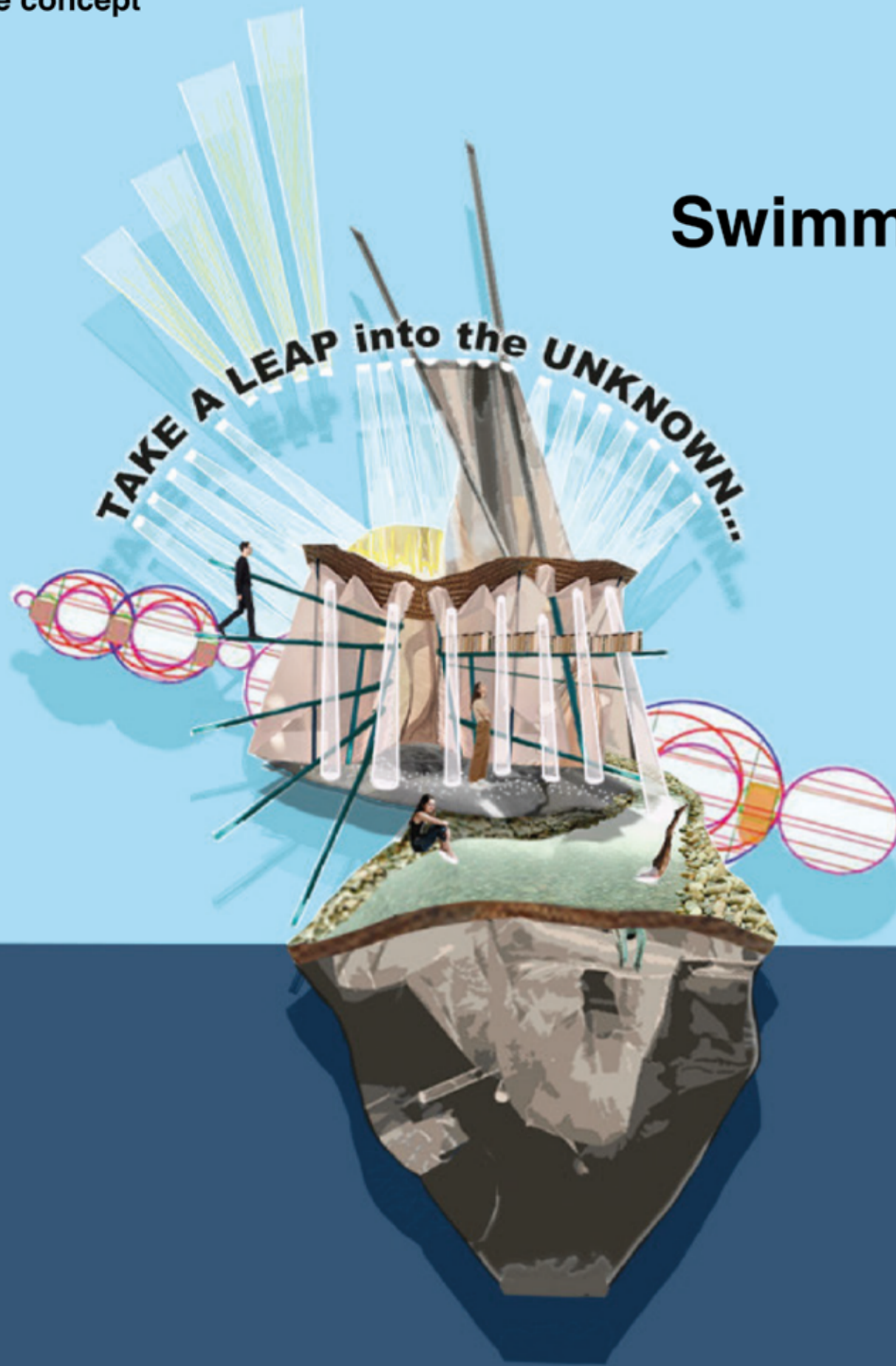


# A centre for the Body & Mind

## Swimming & Diving regional hub incorporating a sports based library



### Programme

#### Body & Mind

##### Swimming & Diving

###### Swimming



- Leisure pool
- Training lap pool
- Jacuzzi

###### Diving



- Diving pool
- Viewing area

##### Sports Library

###### Library



- Sports category
- Quiet reading zones

###### Vertial Reality



- Virtual Reality Pods
- Conditioning Pods
- LED exhibition display

My scheme is inspired by my teaching and passion for swimming. I use exercise as my escape from stress and by looking after my body it nourishes my mind.

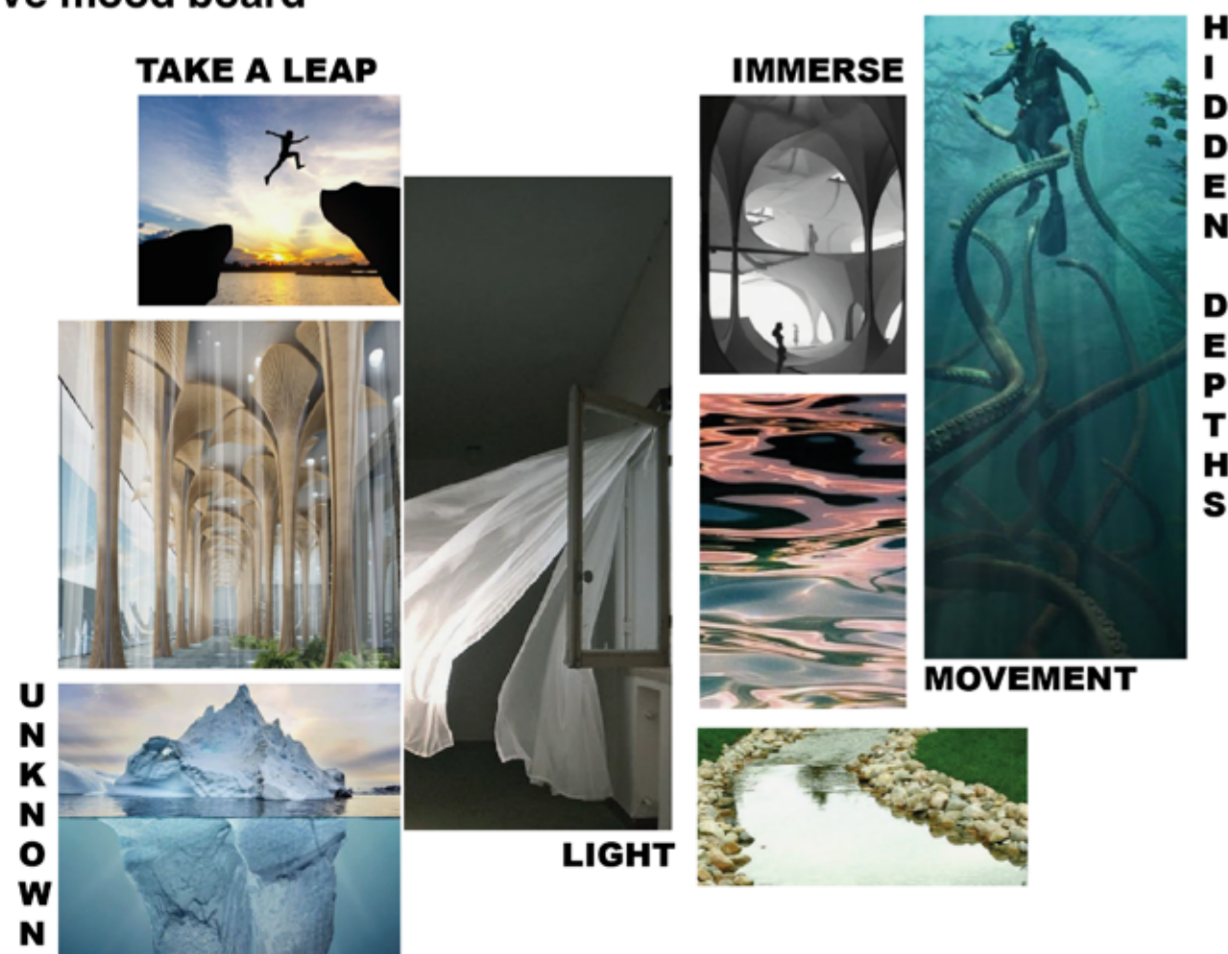
Covid-19 led to leisure centres and libraries to close temporarily and permanently. People stayed at home and became demotivated to exercise. After the pandemic and still to this day numerous individuals find it difficult to socialise.

I designed a centre that targets exercise and learning, creating a healthy and societal environment. The exterior showcases an extruded glass cylinder as a diving pool with the existing tower as diving stations. The idea is to capture the unknown, not what people commonly see above the water but revealing the atmosphere created beneath.

The interior of the church demonstrates the juxtaposition between a swimming pool and library. The natural light bounces off the water and floods into the library connecting the body and mind.

Taking a leap into the unknown by diving and metaphorically through the lighting and shadow. The unknown and known are now connected to become one.

#### Narrative mood board



Exploring the known and unknown elements of swimming and learning through architecture, materiality, shape, texture and light.

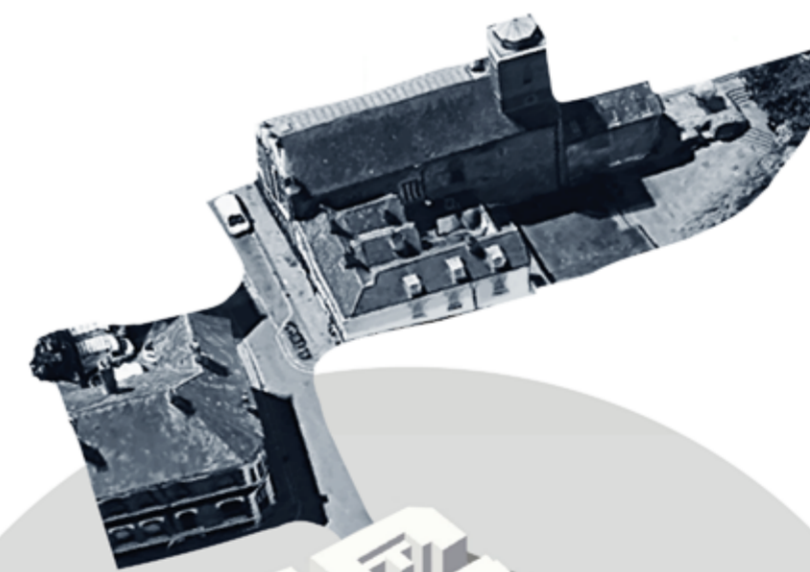
The Jolly Sailor



The Jolly Sailor garden



#### Site Axonometric



The St. Marys Church



The St. Marys Church Garden



The three cottages



Street view



# Architectural Concept

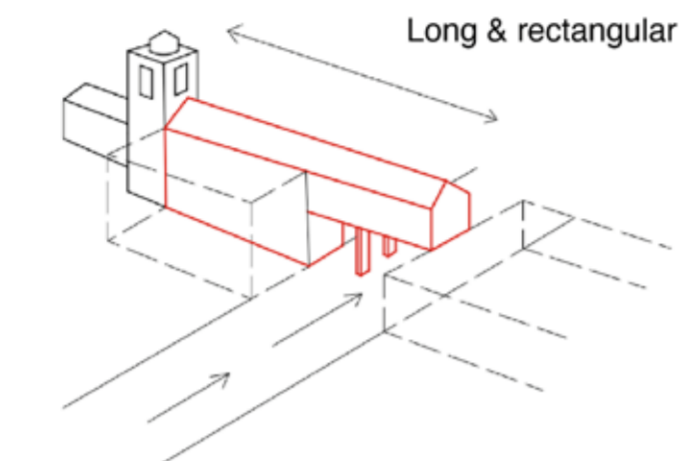
## The shape shifting typology of the Northgate history

By the 13th Century, St. Marys Church was built and the Northgate entrance. The church was constructed over Borough Northgate Street and alongside the Roman city wall, connecting the two sites across the road as depicted in image 1.

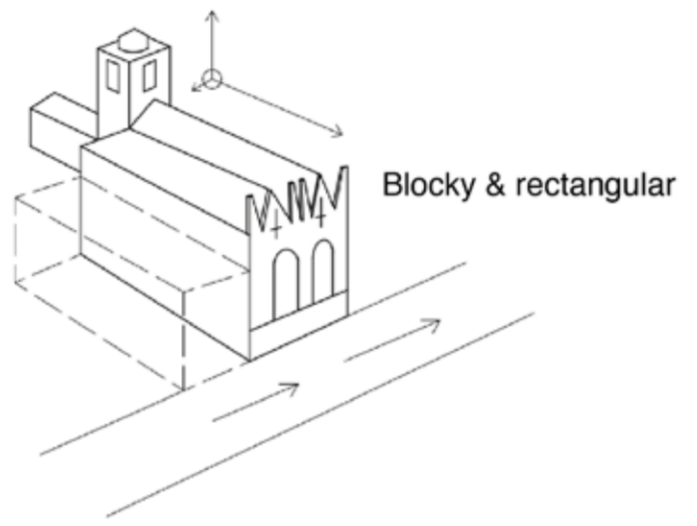
The architectural design transformed over the years and by 1830 the church was restricted to only the North side of the road so that larger vehicles could access Canterbury through Borough Northgate Street (shown in image 2).

The extraordinary shapeshift was due to the development of Canterbury over centuries. In my scheme I have reconnected the sites using a bridge and a tunnel to rekindle the connection to fit the modern century. Doing so I respected the existing Roman walls and development of canterbury city by utilising them in my scheme. Enabling me to use the geometry of the existing church tower to create future spaces to be applicable and relevant to society today.

Circa AD 1400 - Image 1



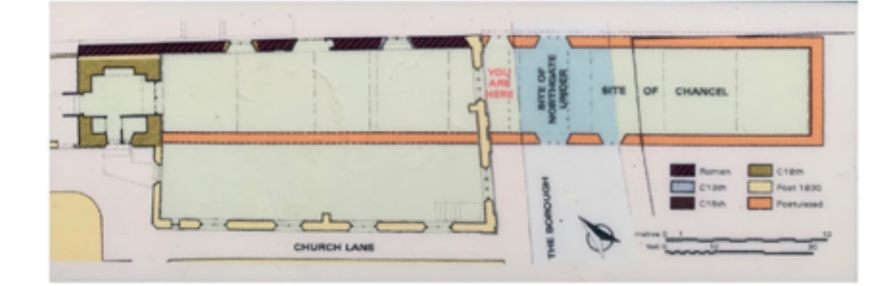
Circa AD 1830 - Image 2



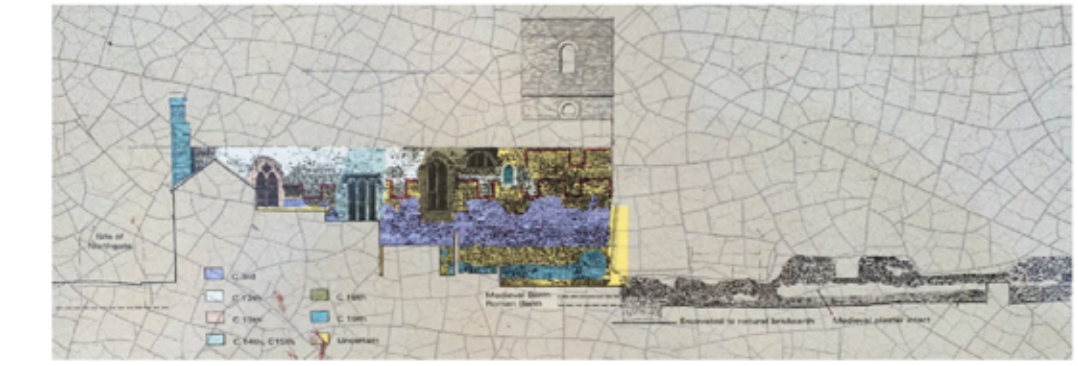
Section depicting the development of St. Marys Church



Plan depicting the development of St. Marys Church

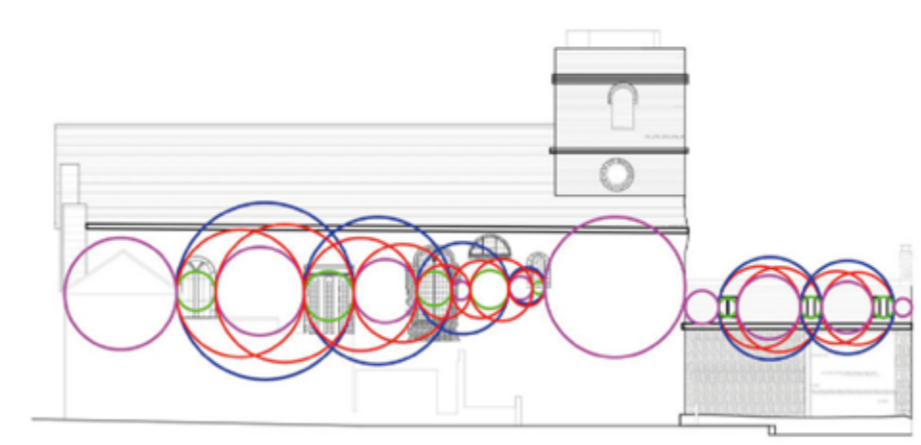


Site analysis - Existing Roman remains



Elevation depicting the development of St. Marys Church Roman wall over centuries.

Site analysis - Elevation grid

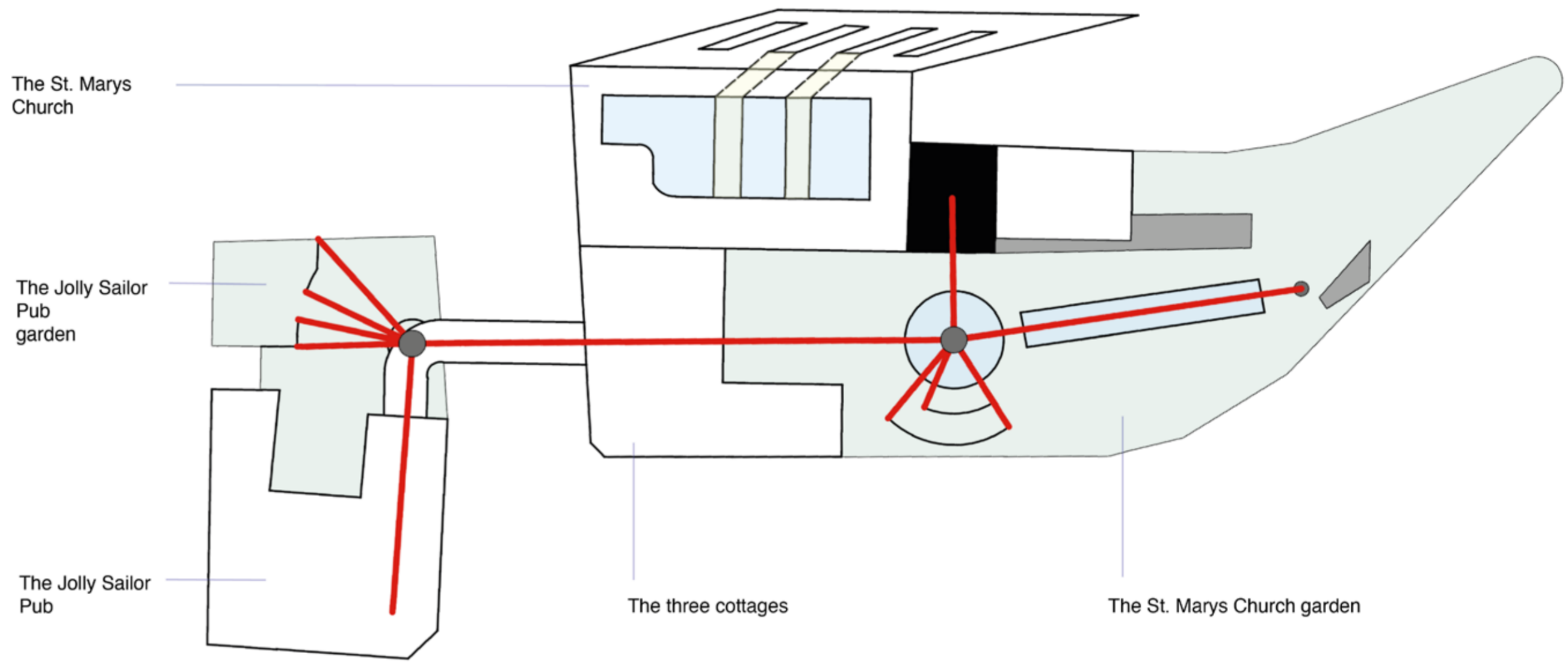


Looking at the volume, structure, geometry of the existing sites to create a final rhythm that I explored in my scheme.

East St Marys Church elevation - Existing Roman remains



Celebrating the geometry and verticality of the existing tower and my proposed diving pool



Transferring the grids shapes into my design and following the geometry of the existing structure from the tower. Utilising my diving cylinder as an axis point for my scheme.

Welcome experience concept collage



Swimming concept collage

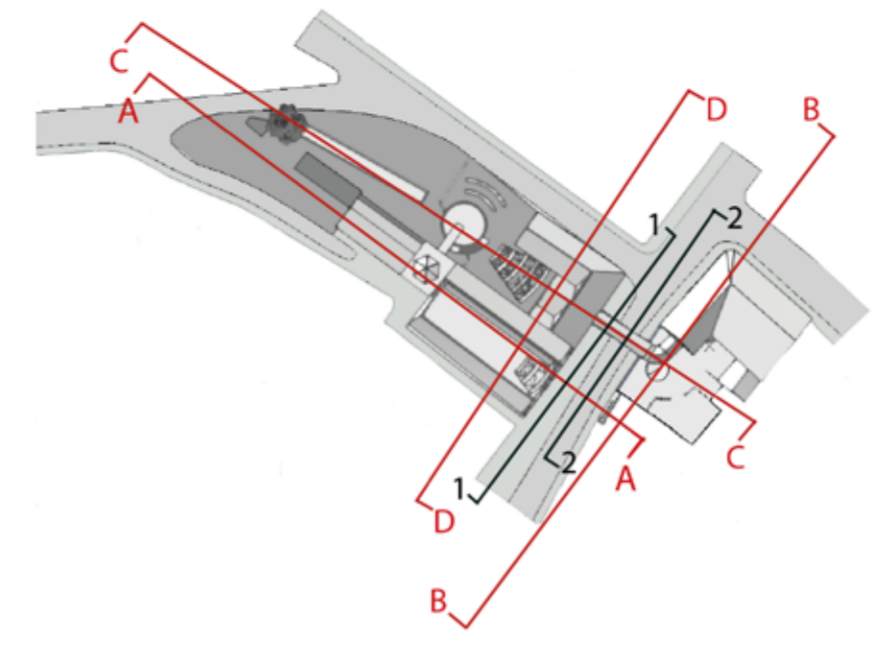
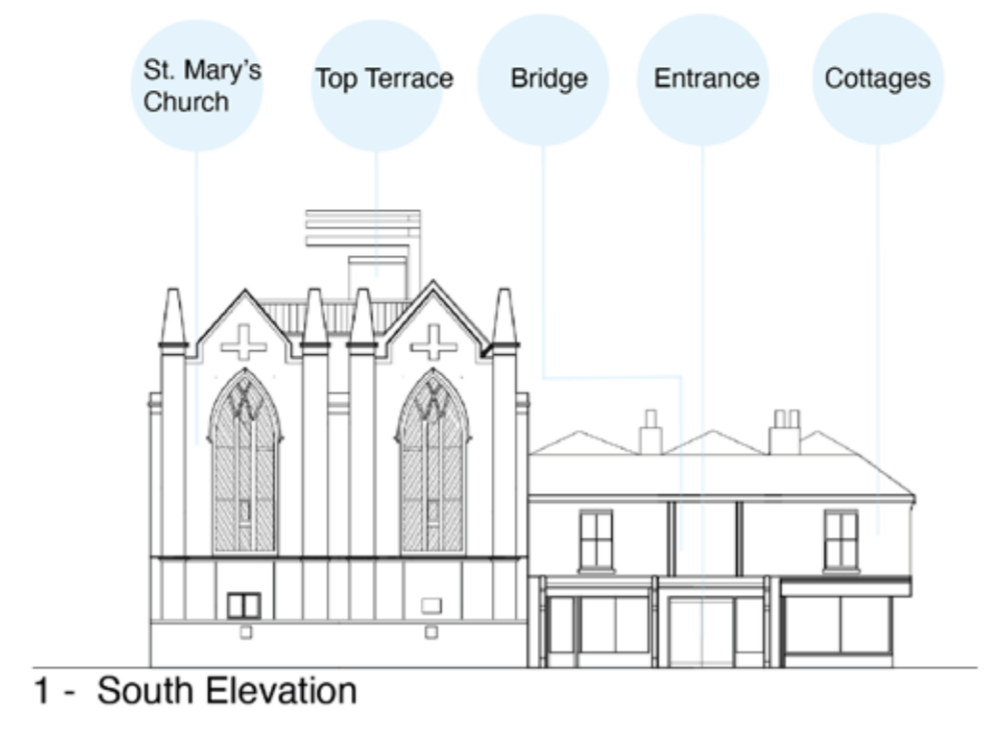
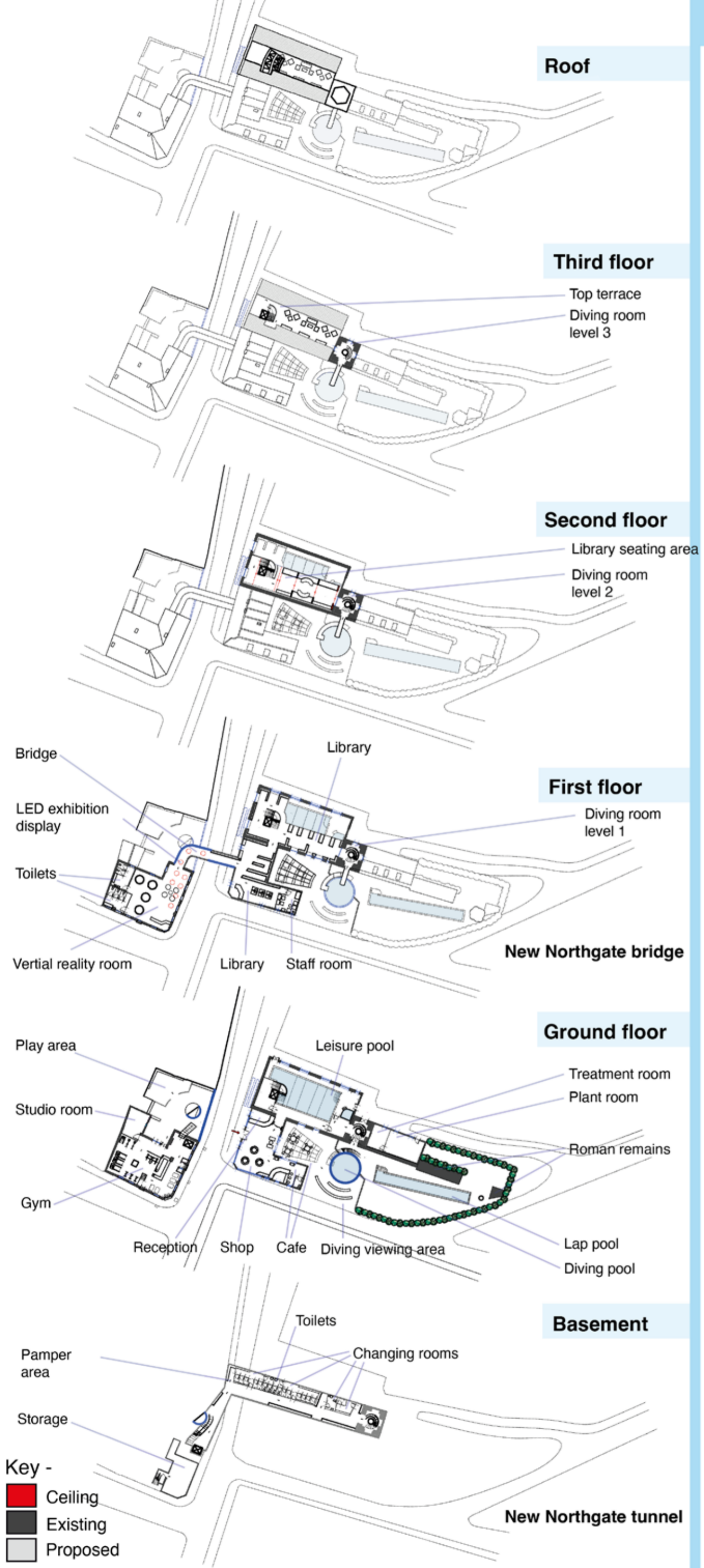


Library concept collage

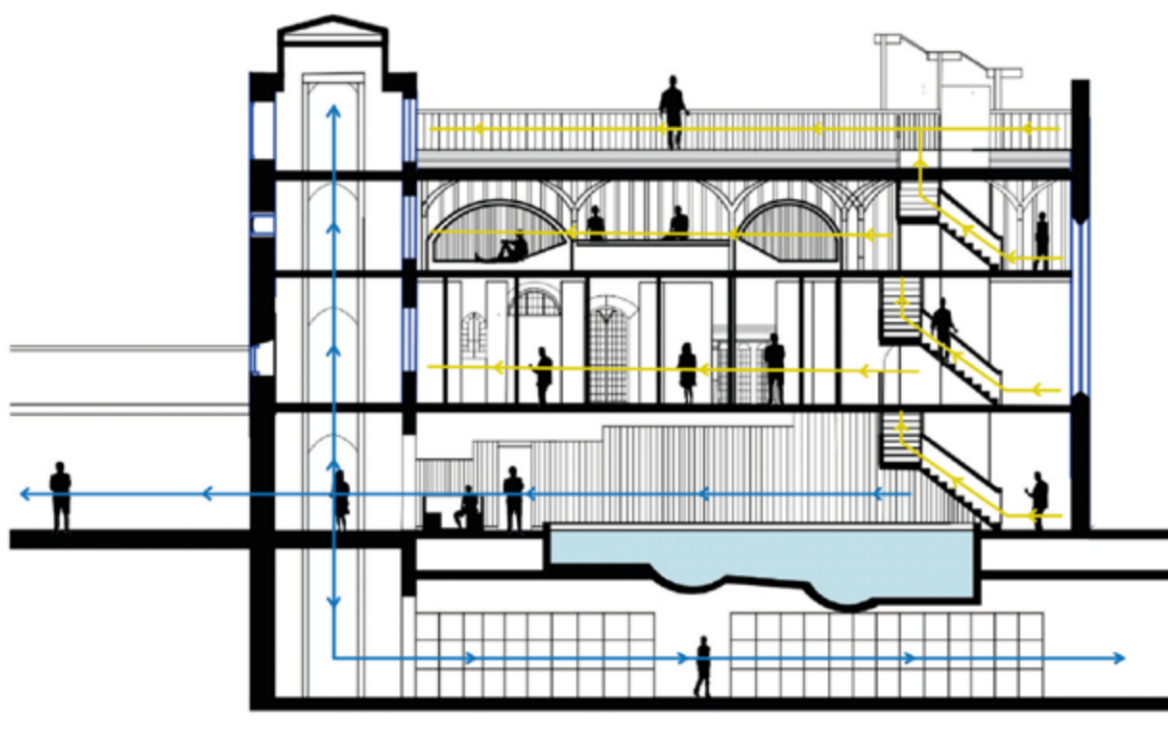


# Construction

## Plans -

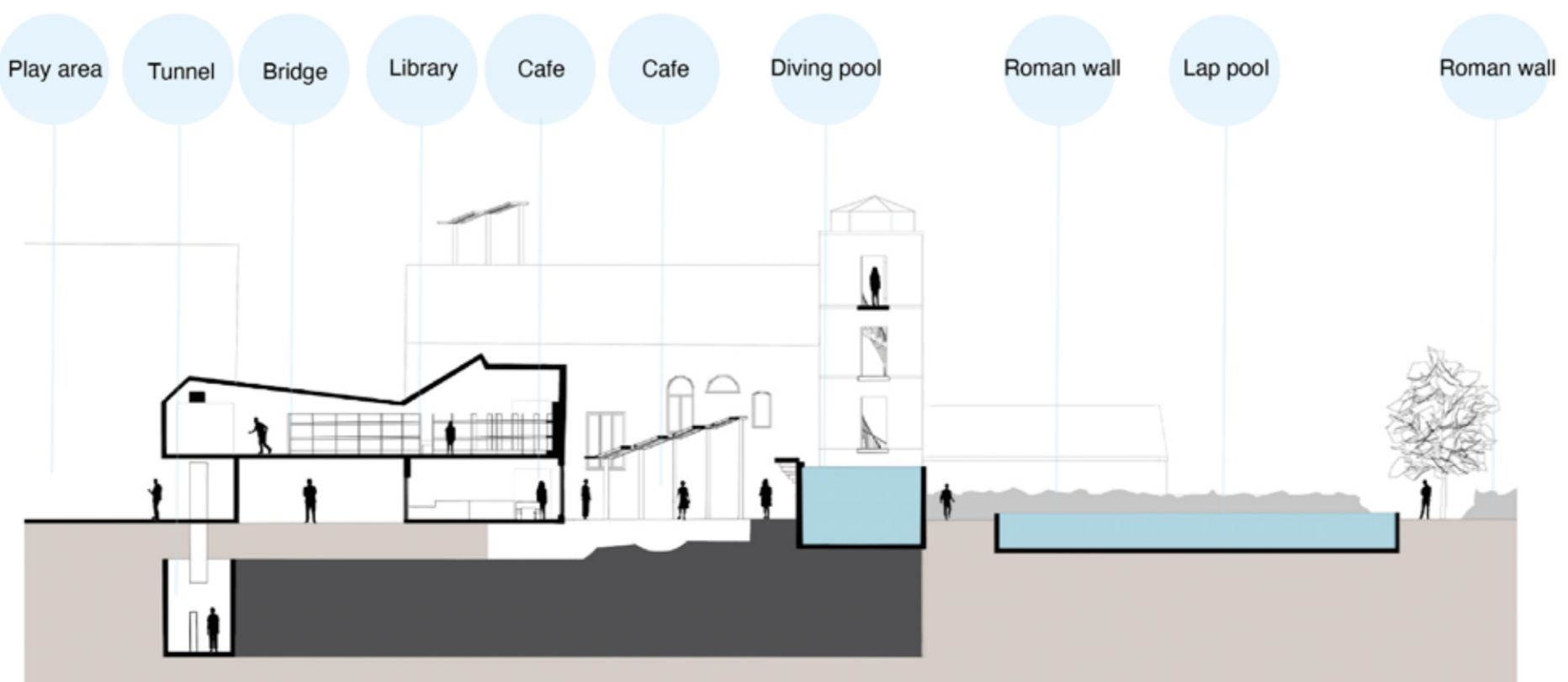
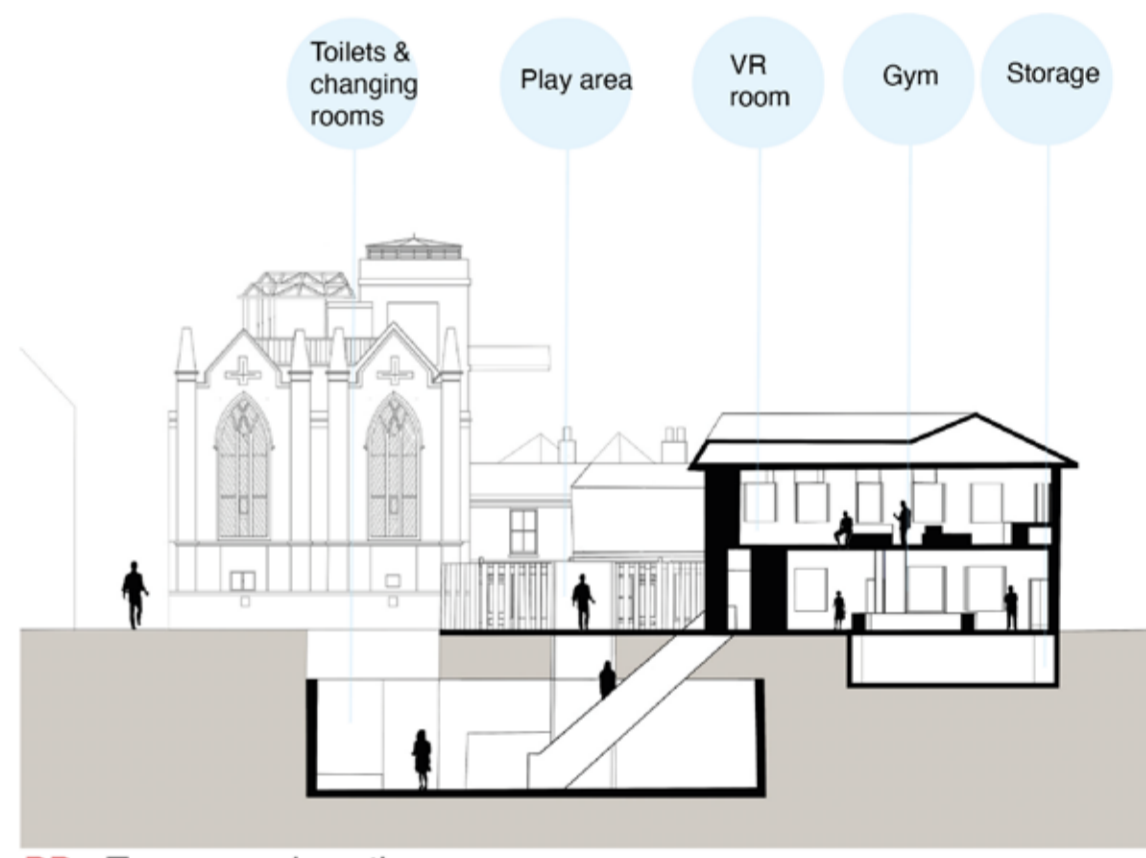


### Vertical and horizontal swimming and library movement



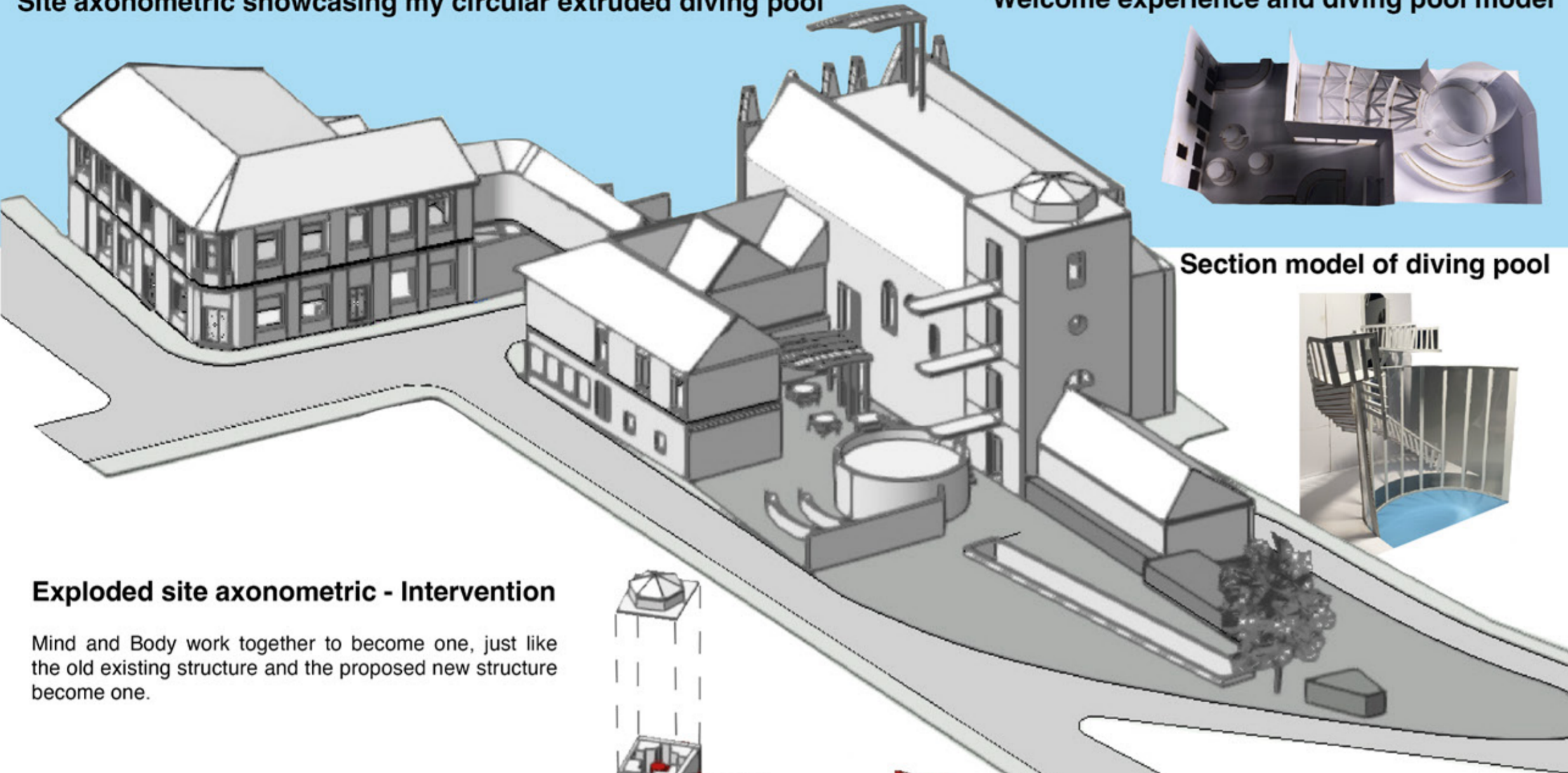
The swimming movement is the body (foundation of us) and the library movement is the mind (building is us). Without the foundation of looking after ourselves physically through exercise and nutrition our mental health cannot function to its full potential.

AA - Longitudinal section

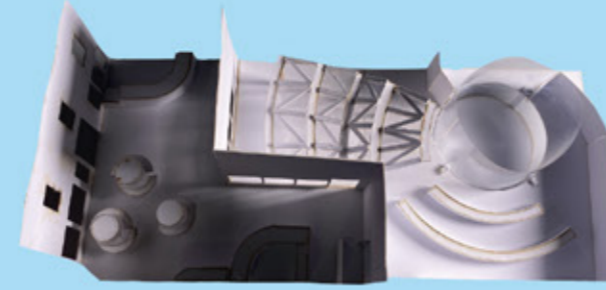


# Proposal

Site axonometric showcasing my circular extruded diving pool



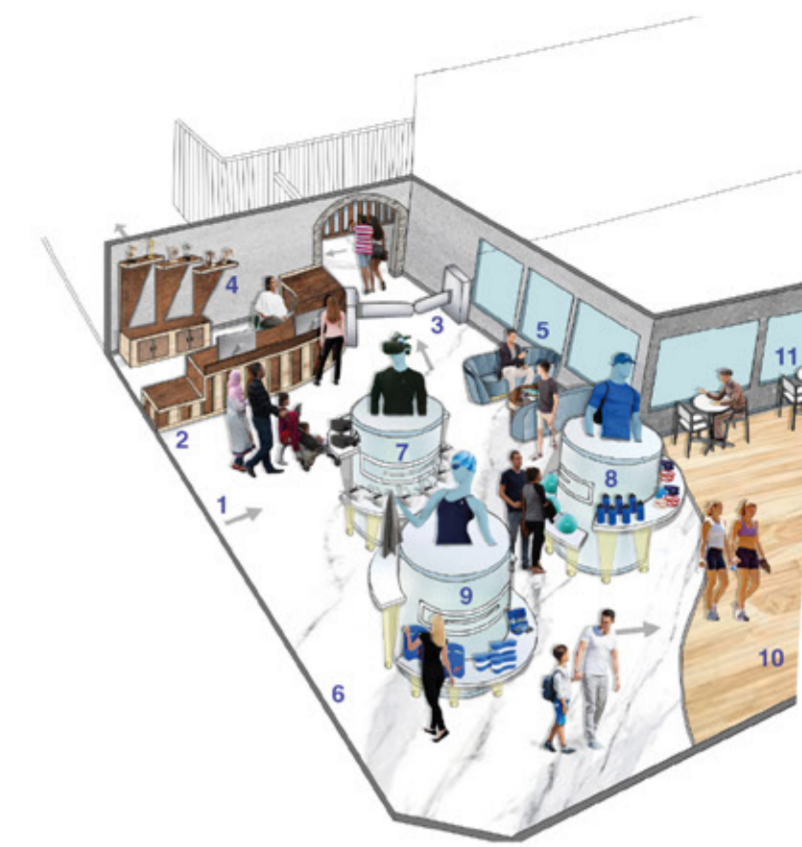
Welcome experience and diving pool model



Section model of diving pool



Welcome experience axonometric



Location -



Key -

- 1 - Entrance
- 2 - Reception desk
- 3 - Security
- 4 - Trophy display
- 5 - Waiting area
- 6 - Retail shop
- 7 - Vertical reality merchant
- 8 - Gym merchant
- 9 - Swimming merchant
- 10 - Cafe
- 11 - Cafe seating area

Section model of swimming and library



Walking into the entrance you are welcomed with the vista of the diving pool through the glass windows that overlook the exterior. The welcome area is an open room that accommodates the reception desk, shop and cafe. The shop has three stands for merchant that have built in storage holders.



Swimming and library axonometric section of church



Location -



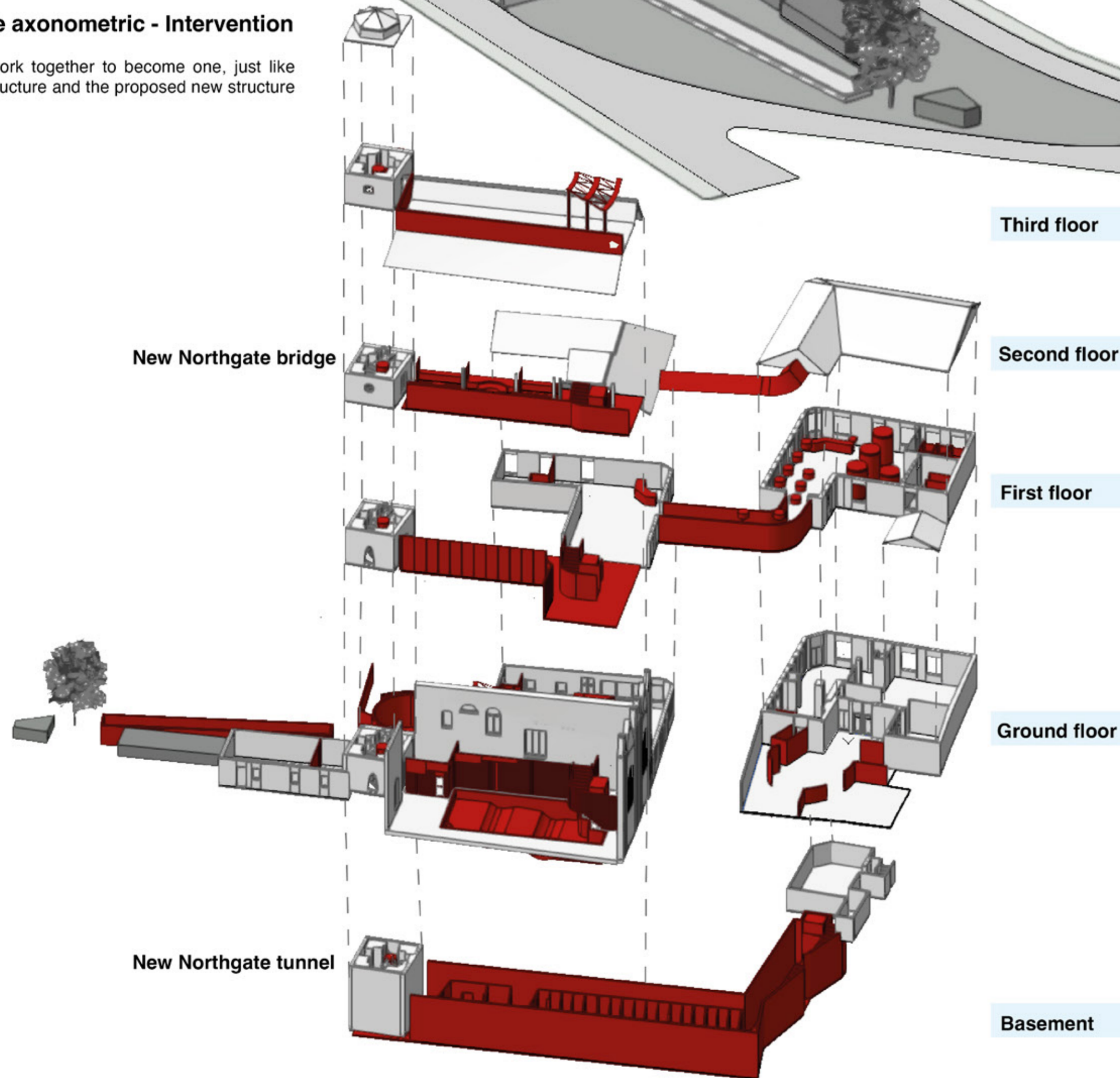
Key -

- 1 - Natural light from pool
- 2 - Changing room
- 3 - New Northgate tunnel
- 4 - Leisure pool
- 5 - Jacuzzi
- 6 - Gym & Library corridor
- 7 - Gym circulation
- 8 - Library
- 9 - Diving room level 1
- 10 - Diving room level 2
- 11 - Diving room level 3

Visually expressing the atmosphere within the interior of the church through the leisure pool, library and the extension of the tower to enable the new Northgate tunnel that connects to the other side of the site. The swimming vertical circulation celebrates the tower with a spiral staircase and a circular lift.

Exploded site axonometric - Intervention

Mind and Body work together to become one, just like the old existing structure and the proposed new structure become one.



Third floor

Second floor

First floor

Ground floor

Basement

New Northgate bridge

New Northgate tunnel

Key -

- Proposed
- Existing

# Design

## Welcome experience and swimming axonometric

The diving pool is the main attraction that is designed from the geometry of the existing tower, showing similarity to one another as they are both extruded upwards. The diving pool acts as an axis point for the training lap pool, cafe, canopy, viewing area and the new Northgate bridge.



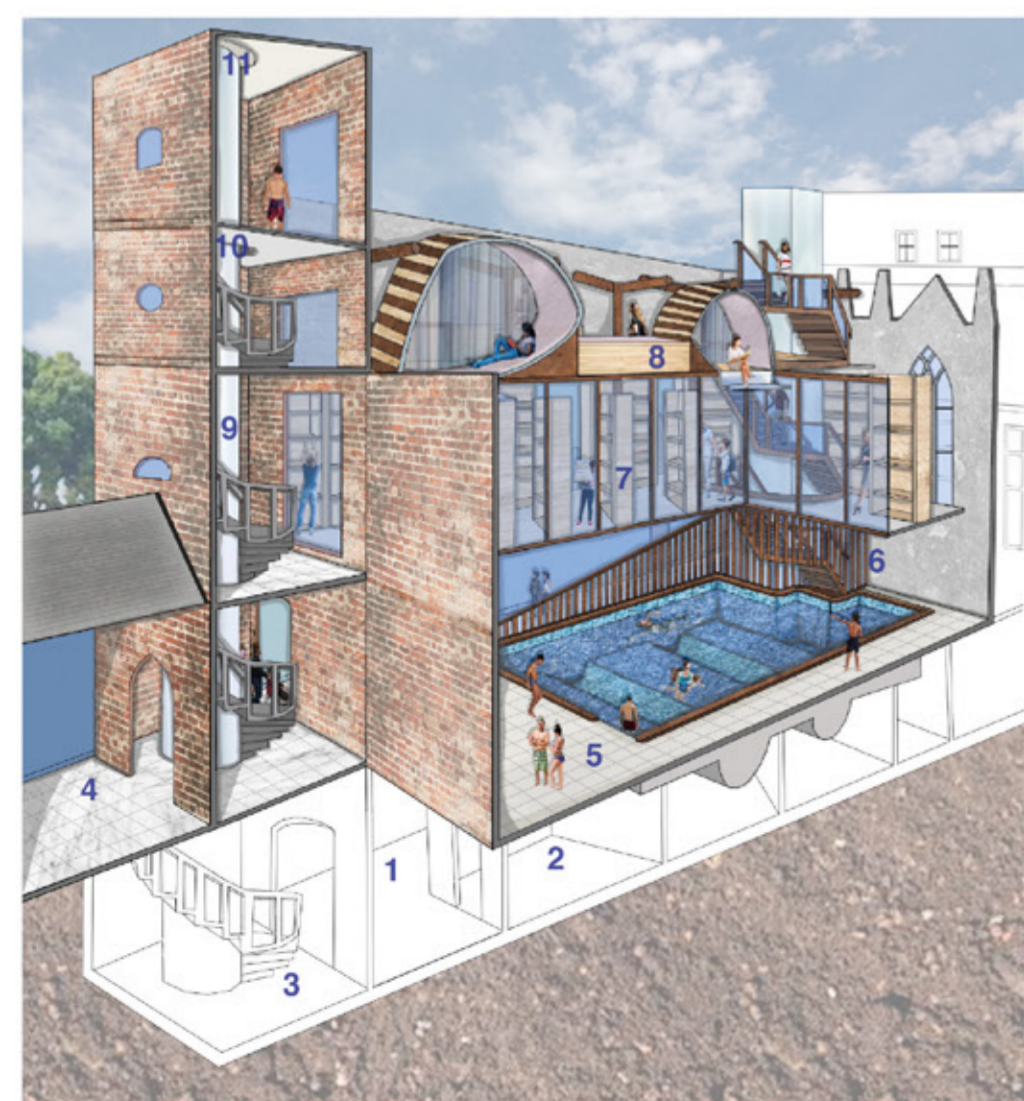
Location -



Key -

- 1 - New Northgate Bridge
- 2 - Reception desk
- 3 - Shop
- 4 - Refrigerated food
- 5 - Hot food
- 6 - Payment & bar seating
- 7 - Accessible toilet
- 8 - Cafe
- 9 - Outside cafe seating
- 10 - Diving pool
- 11 - Viewing area
- 12 - Training lap pool
- 13 - Greenery as fence
- 14 - Canopy
- 15 - Diving tower

## Leisure pool and library axonometric



Location -



Key -

- 1 - New Northgate tunnel
- 2 - Changing room
- 3 - Gym circulation
- 4 - Treatment room
- 5 - Leisure pool
- 6 - Library circulation
- 7 - Library
- 8 - Library seating
- 9 - Diving room level 1
- 10 - Diving room level 2
- 11 - Diving room level 3

Connection of the swimming pool and library through mezzanine floors and glass walls. The swimming circulation is designed circular thus connecting the diving pool and the library circulation is created square symbolising a book.

## Leisure pool perspective



Location -



Key -

- 1 - Leisure pool
- 2 - Jacuzzi
- 3 - Gym corridor
- 4 - Library
- 5 - Library workshop area
- 6 - Existing roof rafters

Showcasing the swimming and the library connection (body and mind) and respecting the existing church structure in my design.

## Vertial Reality room perspective



Location -



Key -

- 1 - Workshop area
- 2 - Help desk
- 3 - LED exhibition display
- 4 - Vertical reality storage
- 5 - Vertical reality learning pods

Visually showing the future of technology and how it has advanced to become normal. Technology is the new social shift for this generation so should be used to aid peoples learning. The room has LED exhibition displays of local art and vertical reality learning pods.