

# CAMBORNE LANDMARK

## ARC230

MAYA ANGELUS

# Site - Camborne

## The site

- there was always a community building,
- first a cinema than the now existing Apollo Bingo hall
- I wanted to continue the heritage of the site as a community hub, A multifunctional place that everyone can enjoy



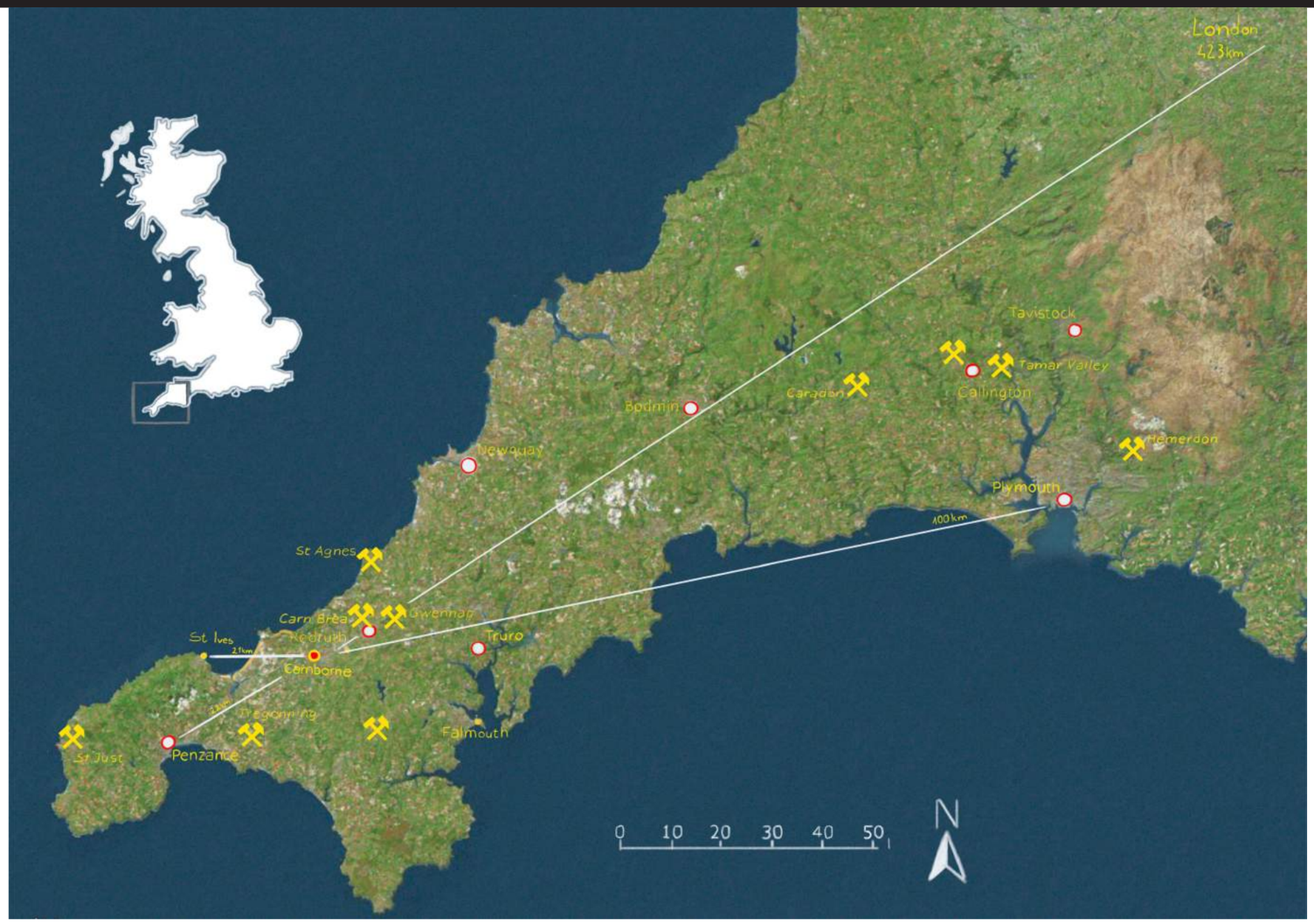





# Mining in Cornwall and Devon

## Mining in corwall

- began in the early Bronze Age, around 2150 BC.
- tin and copper were the most common mined ore
- lithium, cobalt, indium, zinc, tungsten and silver were also extracted
- from the 18th century trading and supply chain were thriving
- by the end of the 20th century it became unprofitable
- the last mine - South Crofty - closed in 1998






## Camborne

- It was the centre of Cornwall's tin and copper mining
- when the South Crofty mine closed the city soon became one of the most deprived areas in the UK

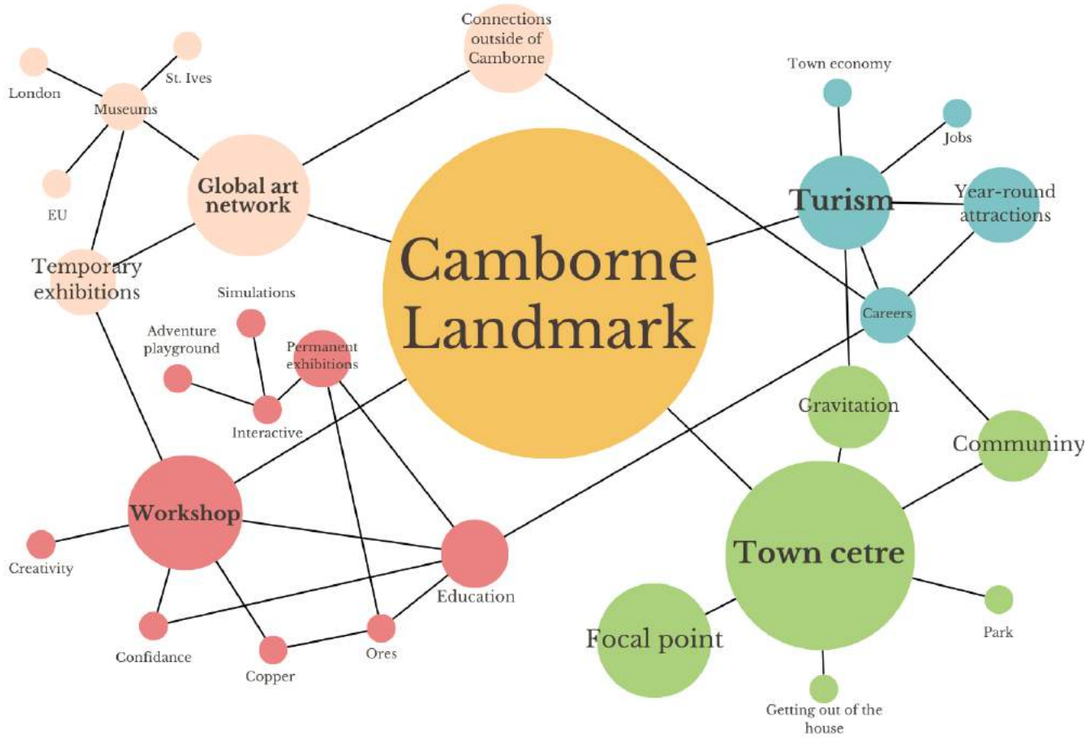
# My Brief

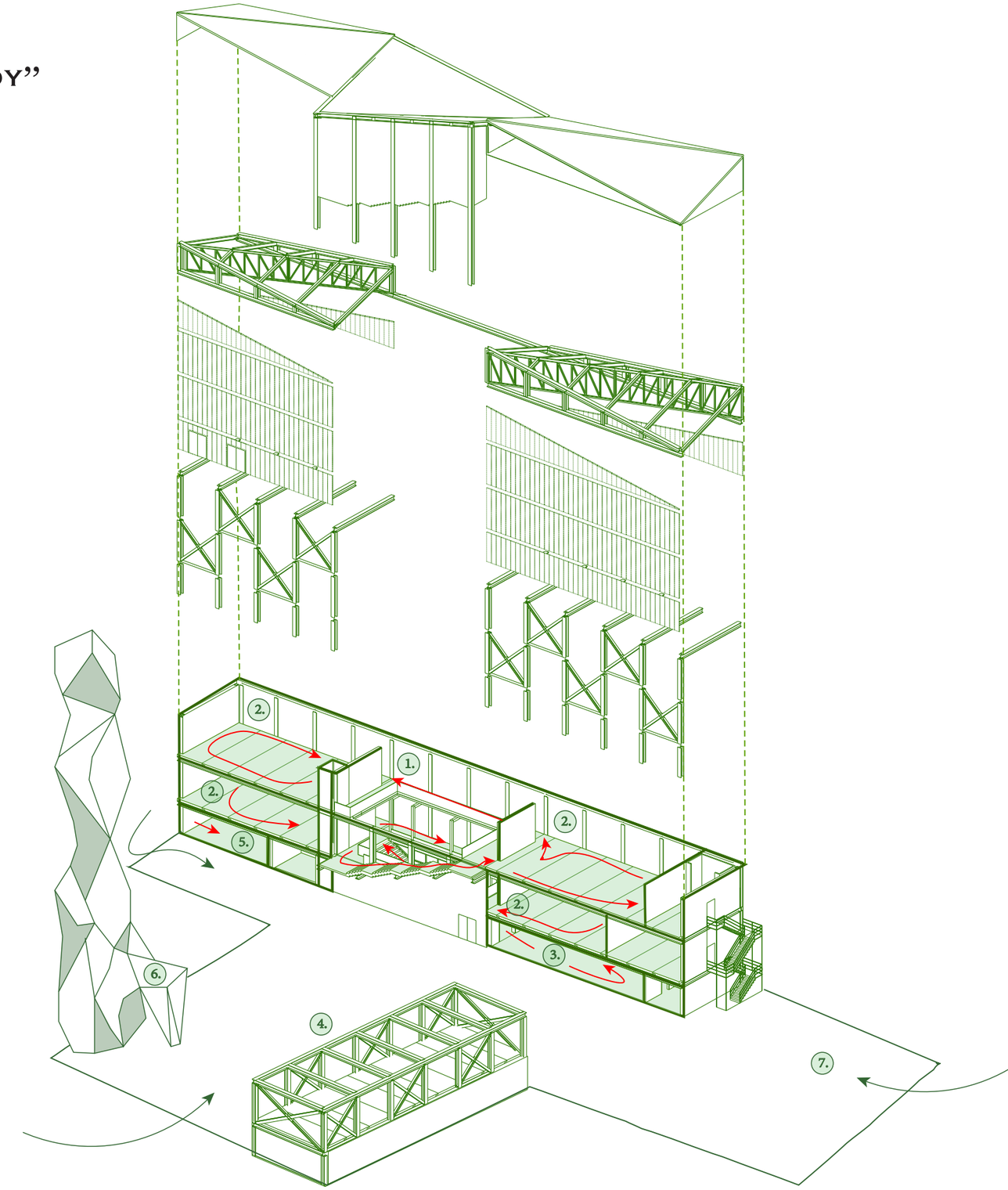
## To achieve...

- „A multifunctional place what everyone can enjoy”
- To regenerate community activities
- To show alternative future and perspective

## I propose...

1. Glass Foyer
2. Temporary exhibition space
3. Mining museum
4. Social beacon
5. Workshop
6. Landmark tower
7. Separate Parking/deliverie entrance

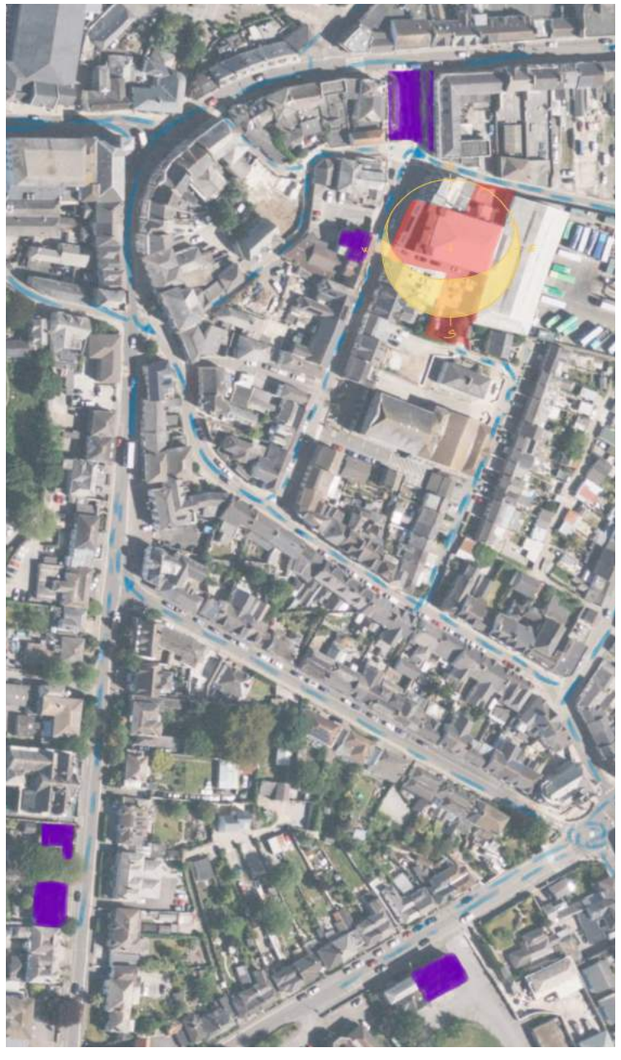


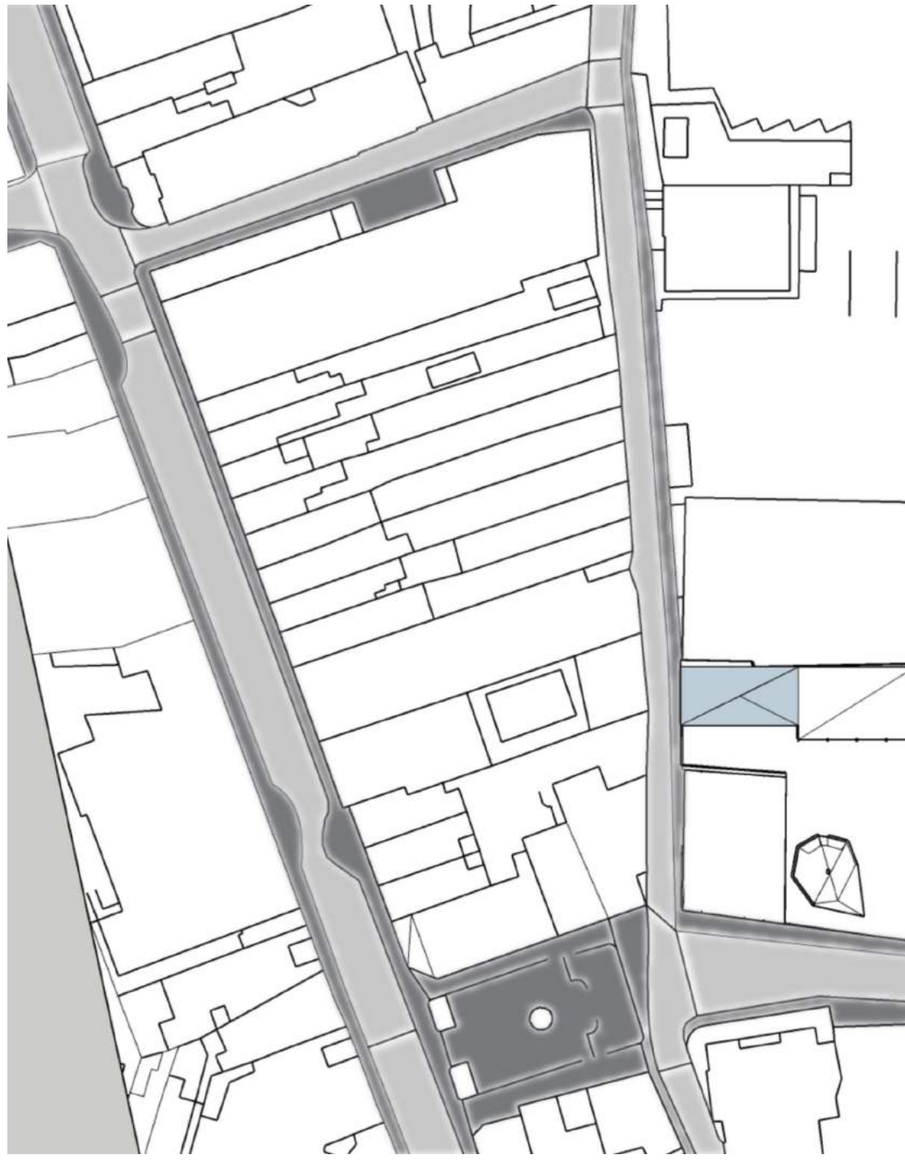



# Existing context of the site

## Lack of centre

- fast roads next to the town square
- going-through place
- nothing to stop for
- cultural/community places scattered
- no bio diversity







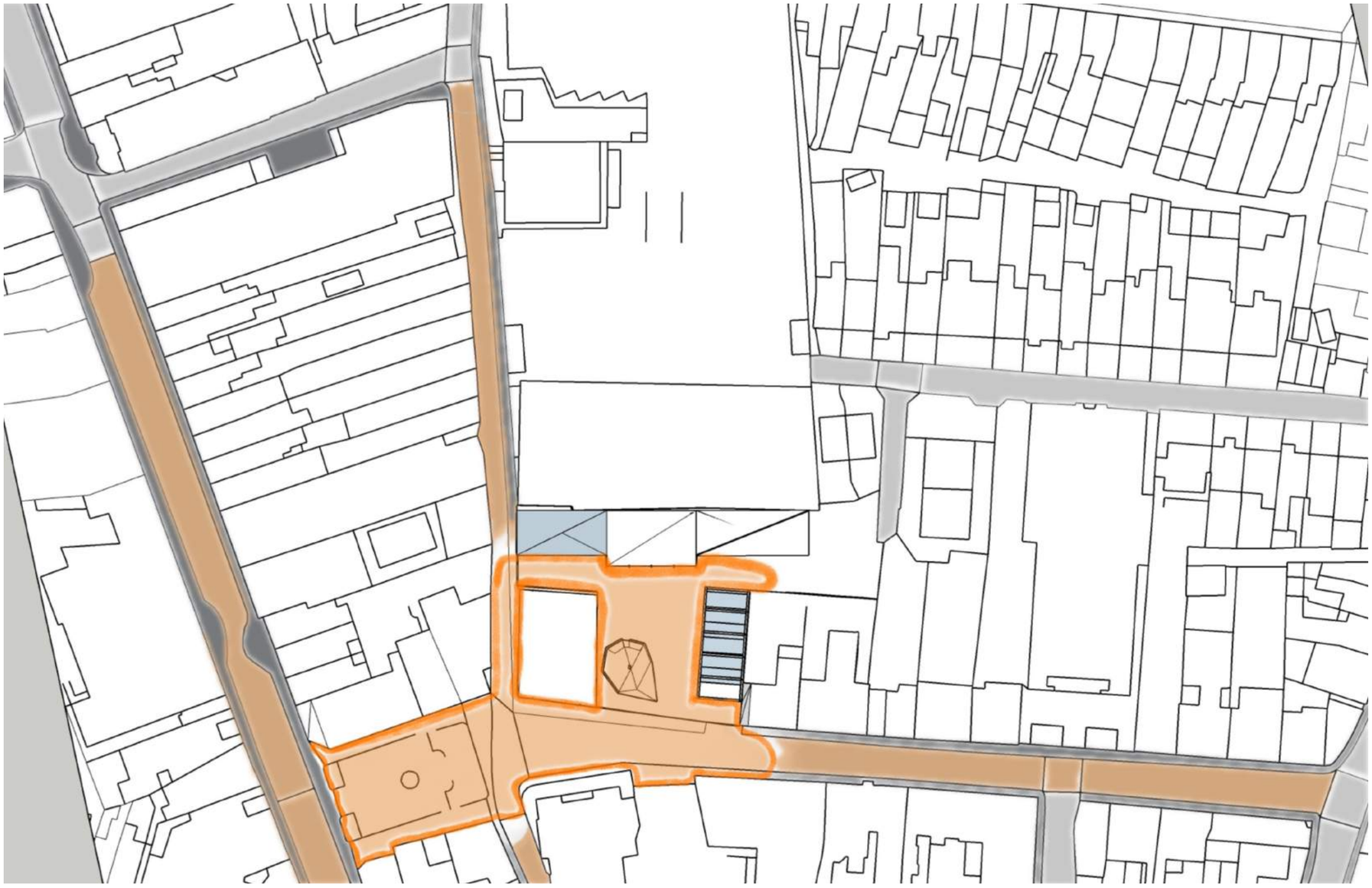
# Proposed site concept

## Regenerating the town centre

+ connecting the existing square with the Landmark's courtyard
+ Urban landscaping
+ greenery to enhance biodiversity
+ slowing the traffic

for safer pedestrian access

+ inviting public



# Concept Montage



# Precedent analysis

## New art gallery walsall, by Caruso St John

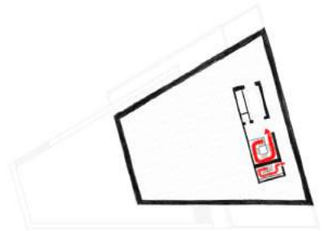
+ longitudinal staircase
+ building flow

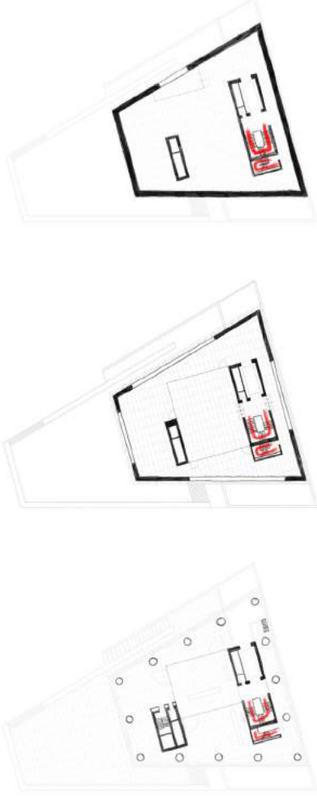


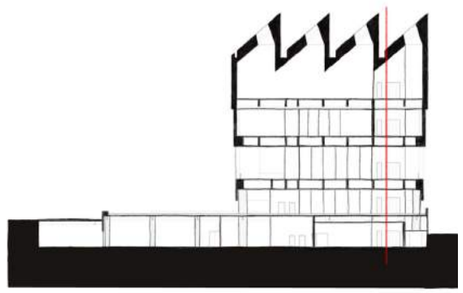


## Duseo Jumex, by David Chipperfield

+ spine, core / stacked staircase









## Fondazione Luigi Rovati, by MCA-Mario Cucinella Architects

+ underground exhibition space
+ organic



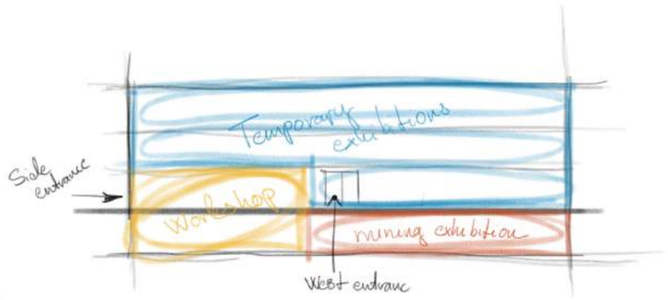


# Initial ideas / Function scheme

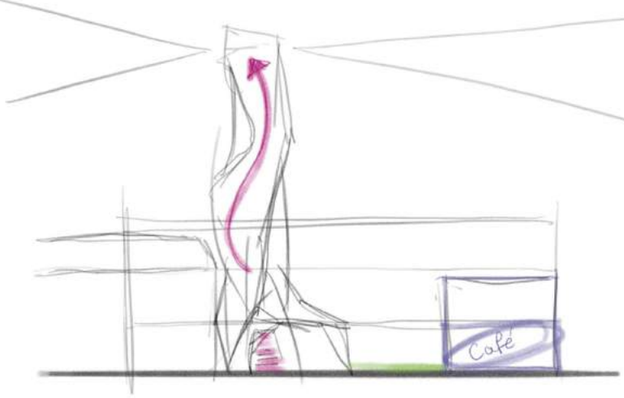
## INITIAL IDEAS / INSPIRATION

- After visiting the geevor mine a few things stuck in my head:
  - the machinery's rigid structure
  - the rocks rough textures
- organising the site, I wated to create a courtyard which would give a sense of enclosure, a safe place for everyone



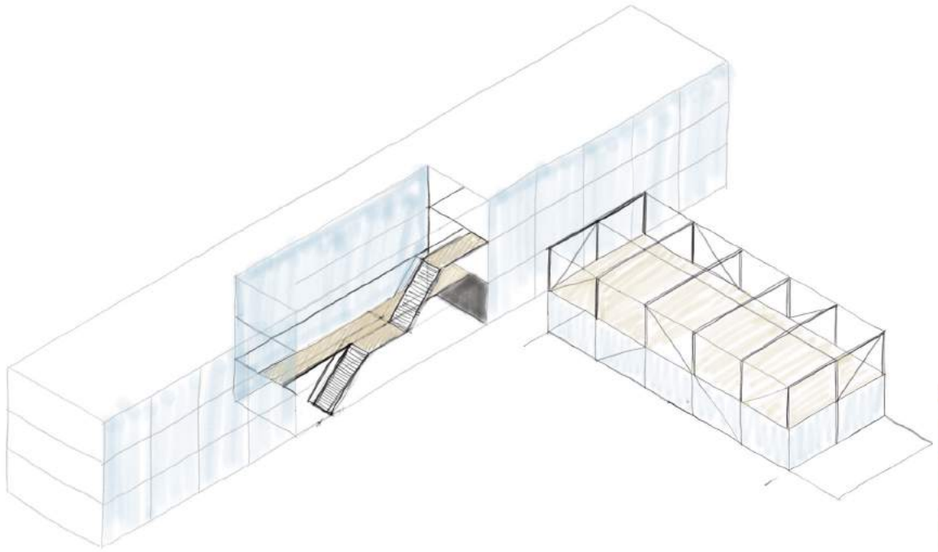


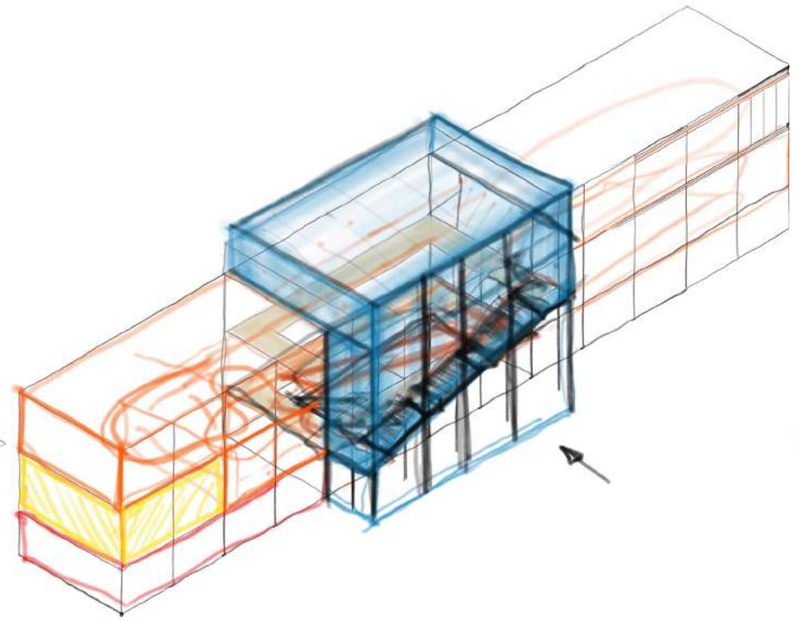


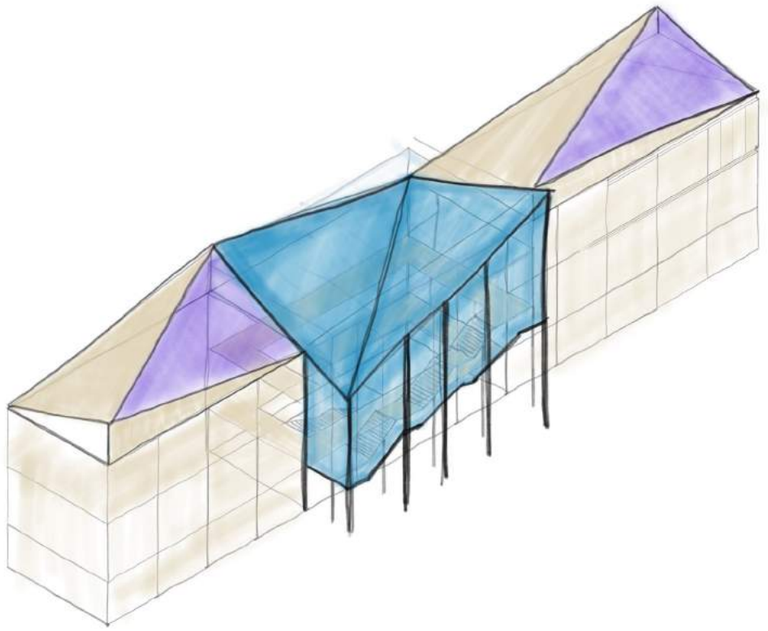






# Roof development

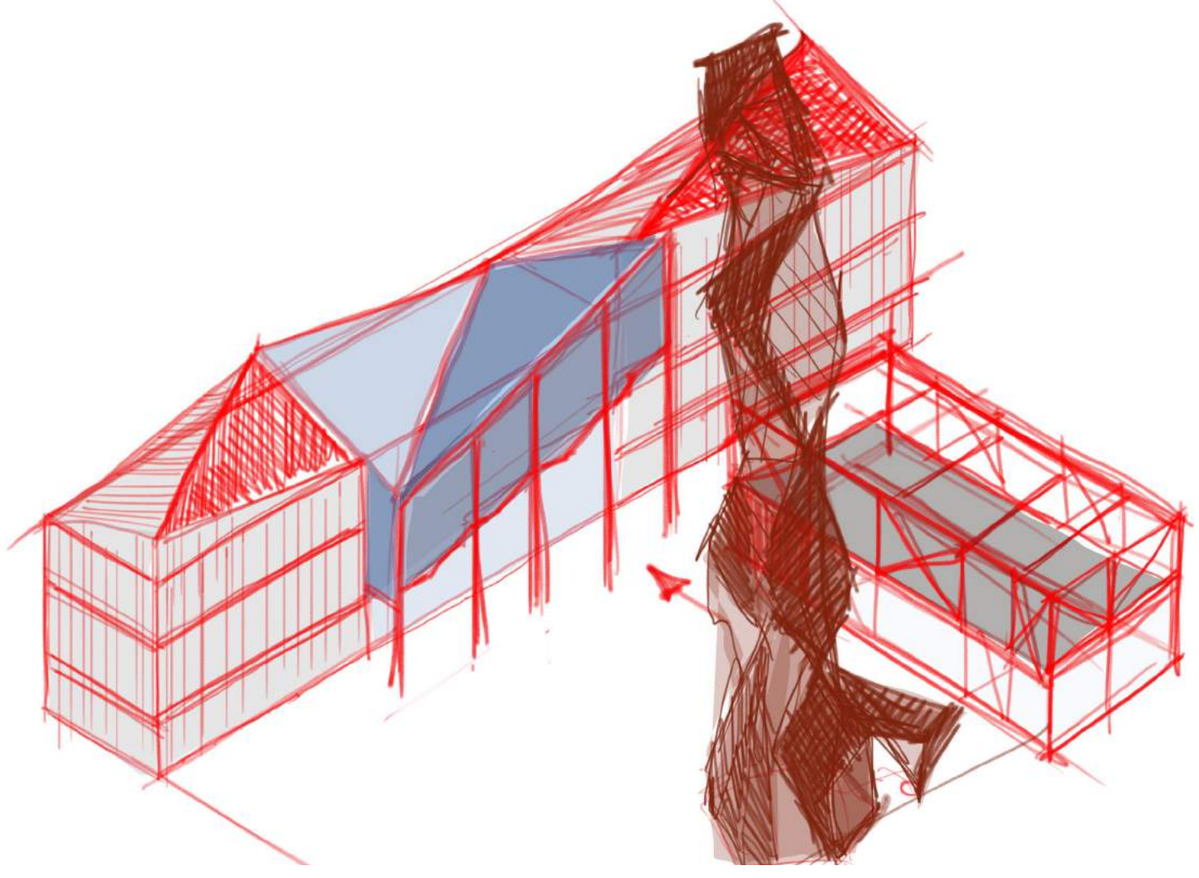






## ROOF EVOLVEMENT

- From a simple shape i opened up the foyer
- to show the building circulation's, flow I glazed the foyer/indoor courtyard
- extruded it from the plane rectangular
- I wanted to have rooflights but they kept Falling off of the roof so I tilted the whole surface to have the slopes looking in the right directions. for the roofglazing (if i would have put them on) north-east and for the solar panels, south-west
- to follow the rhythm i moved the foyer's glazing as well
- after the process i ended up with a naturally evolved unique roof structure, echoing the mines' silhouettes



# LANDMARK

## Lookout tower

**exclamation mark, focal point, gravitational center**

+ to give perspective
+ place Camborne in context, showing the sea
+ to give a sense of connection with the world

## Watch the view from 31m

**video:**

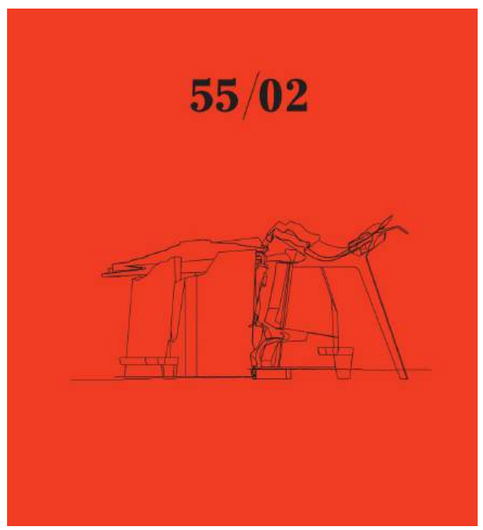
https://youtu.be/sy4WQHTtPR4

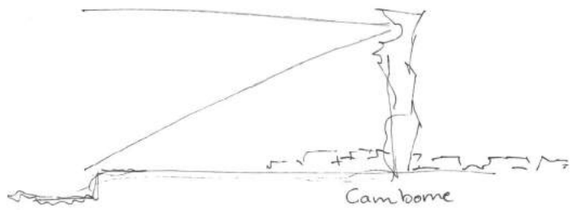
## Precedents

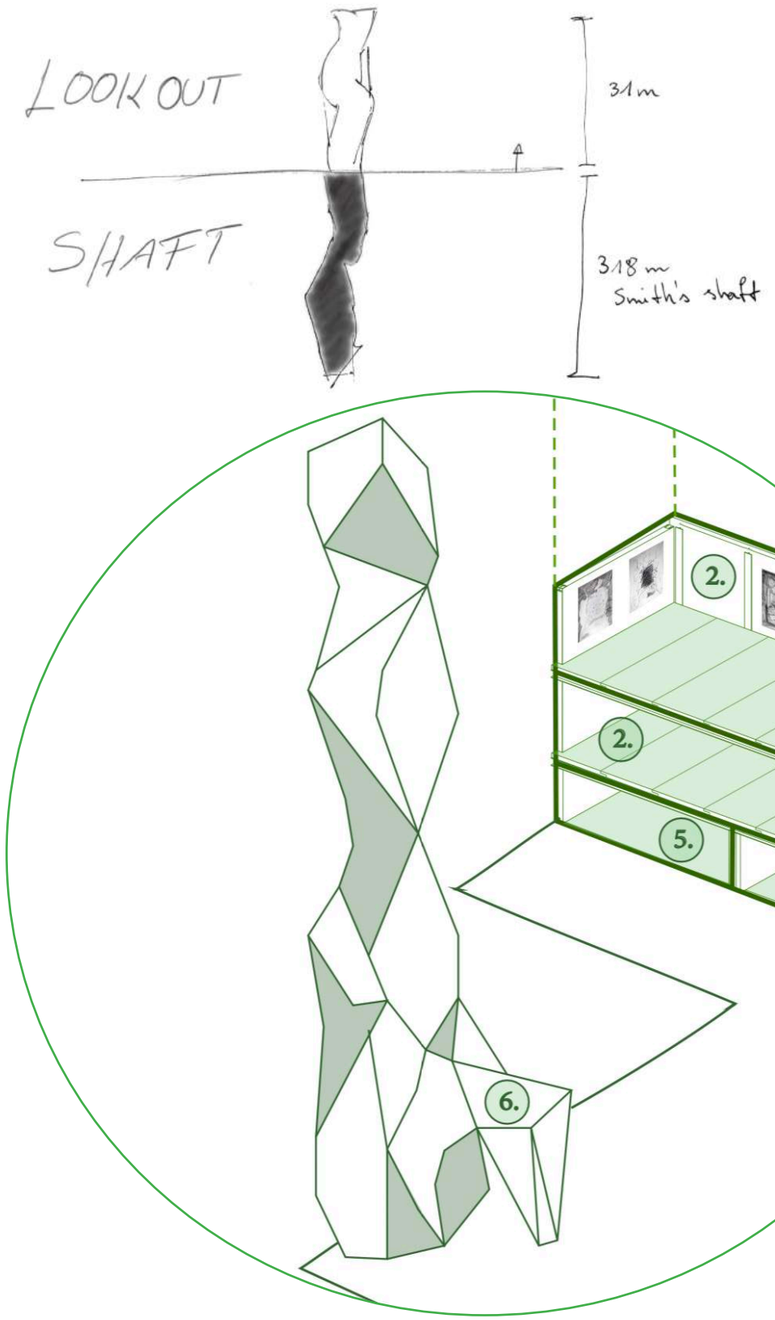
+ The copper works, Newlyn - Michael Johnson
  copper folding, fine work, annealing, welding

+ 55/02 by sixteen* - Bob Sheil
  sheet metal folding, riveting





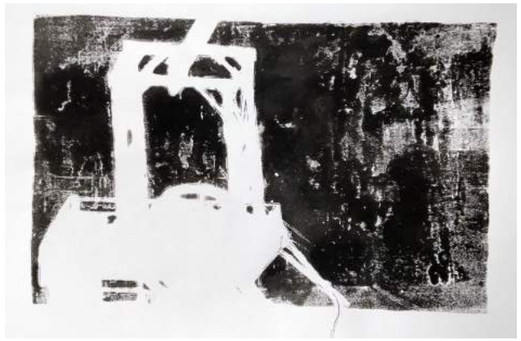
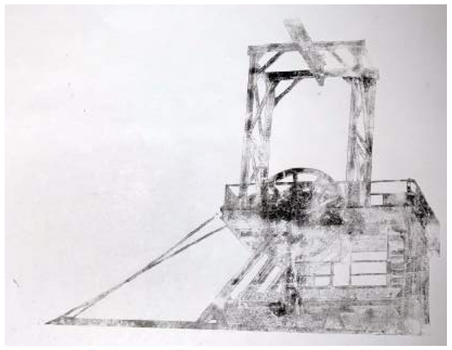
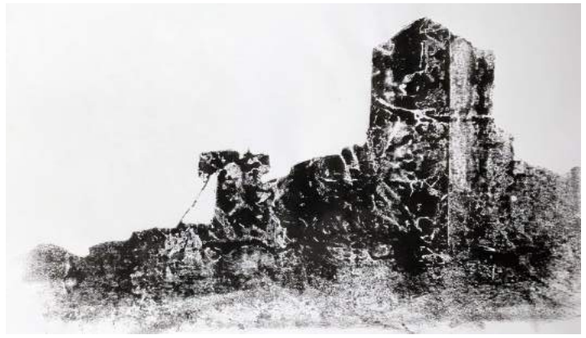
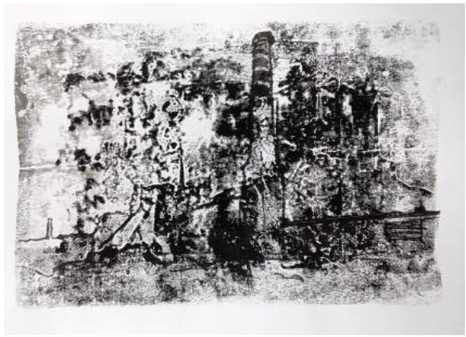



# LANDMARK

## Inspiration

### + MONO PRINTING

### + MINE VISIT SKETCHING

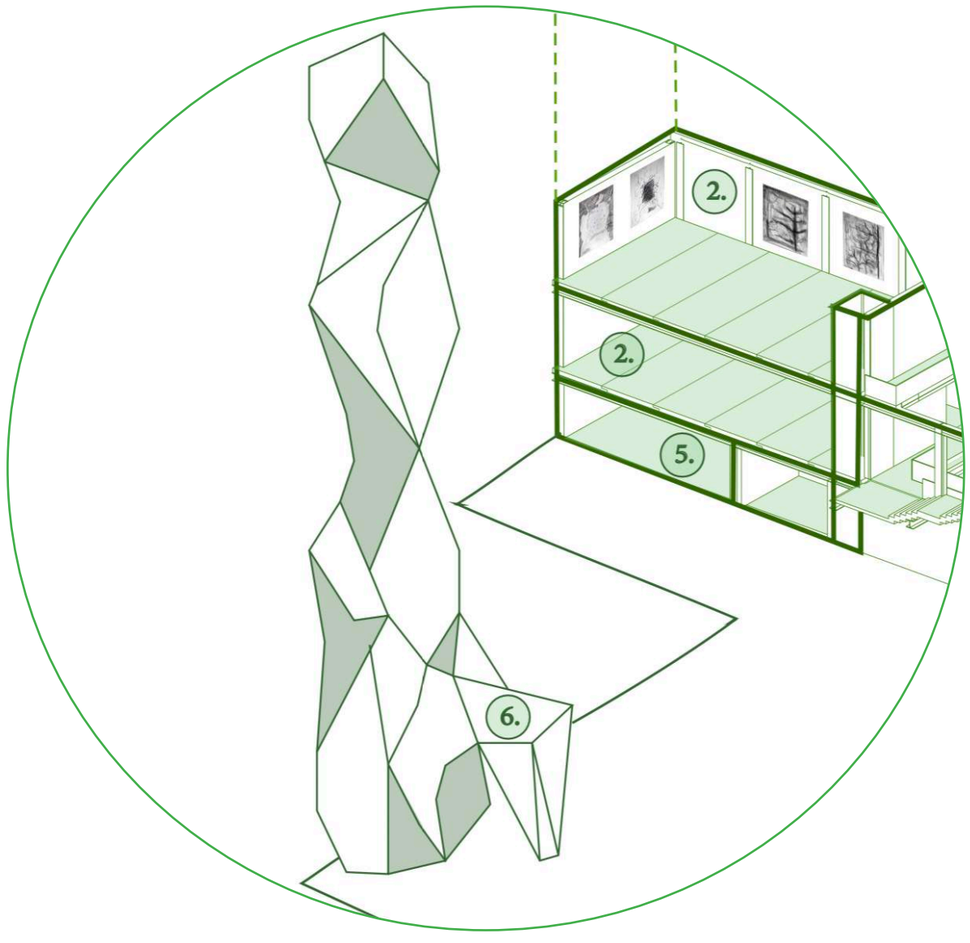





### + MATERIAL STUDY - COPPER SCULPTURE



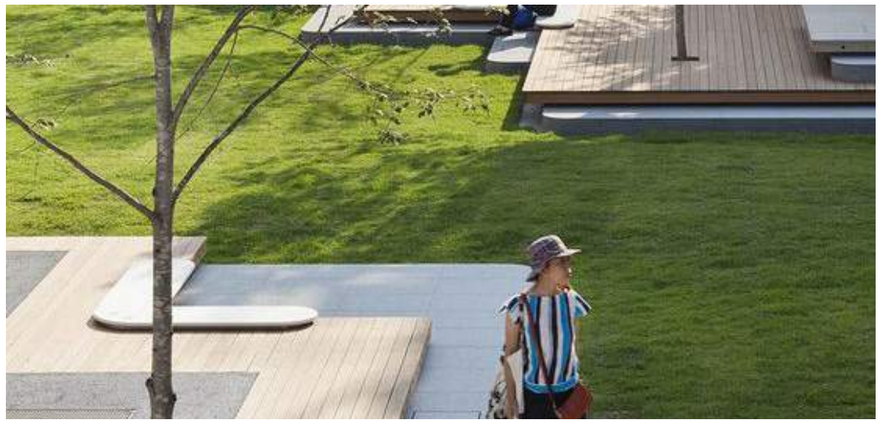




# Social beacon / courtyard

## Courtyard

- town centre
- urban landscaping
- safe open space
- gathering / playing / studying
- greenery to enhance biodiversity





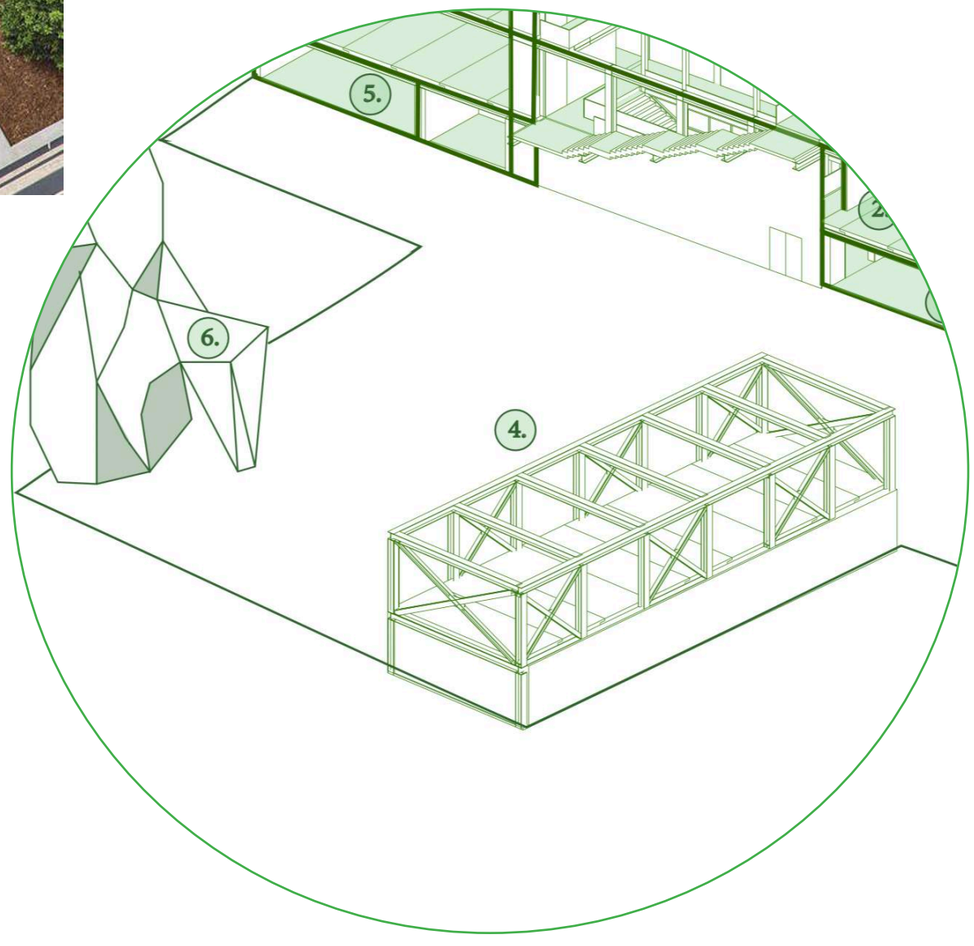


## Social beacon - 4.

- community gathering space
- café - study space
- open rooftop terrace





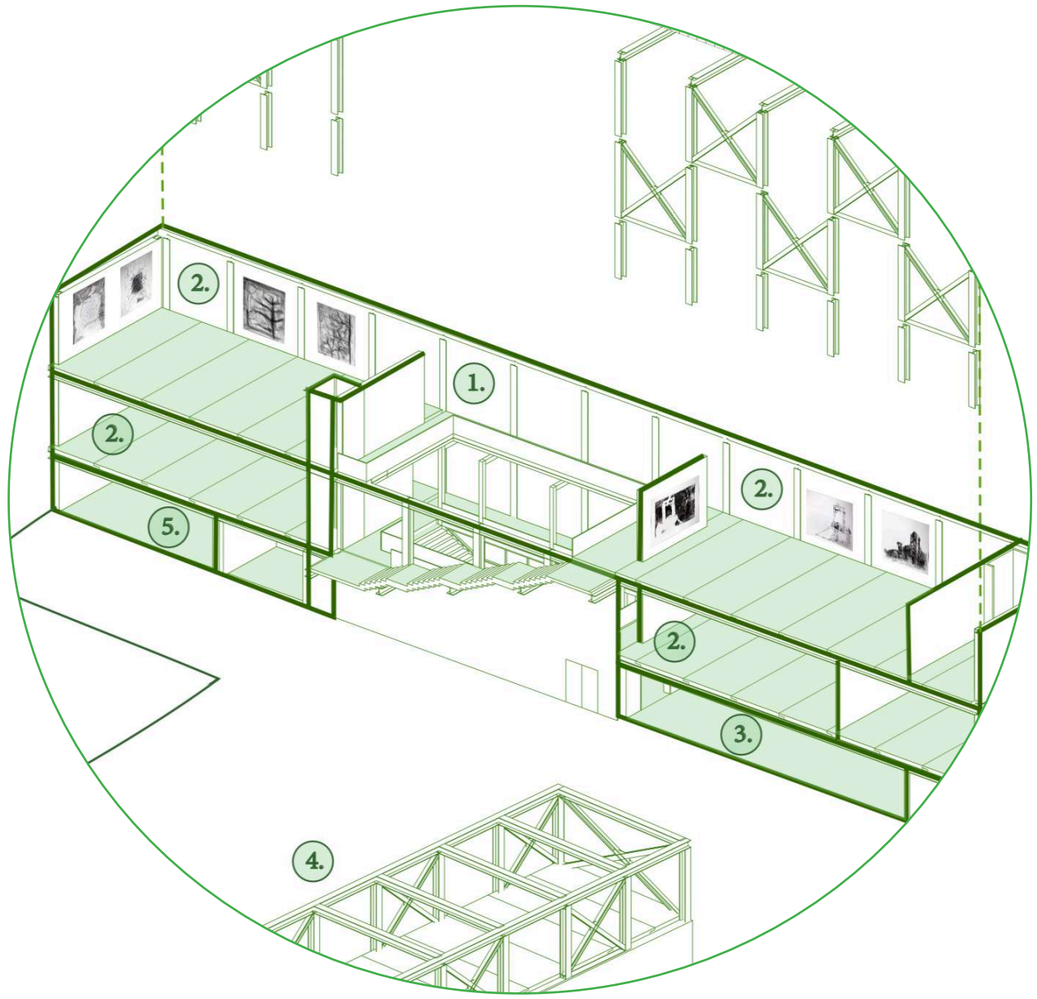
# Foyer / temporary exhibition

## Foyer - 1.

- in the Entrance's steel posts are red to lead people to the entrance
- full building height space
- bright, inviting
- ticket office, cloakroom

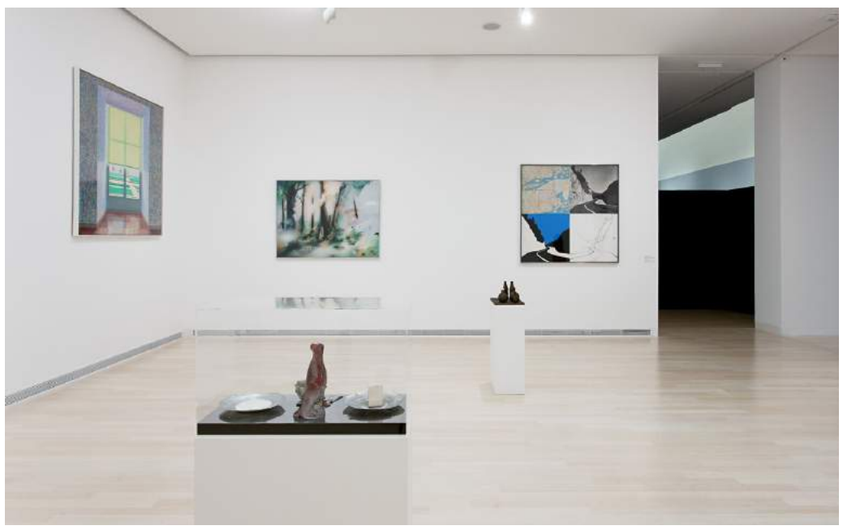





## Temporary exhibition space - 2.

- Connecting Camborne to the world
- Always changing exhibitions
- Always turistical attraction
- supporting local artist with provide exhibition spaces



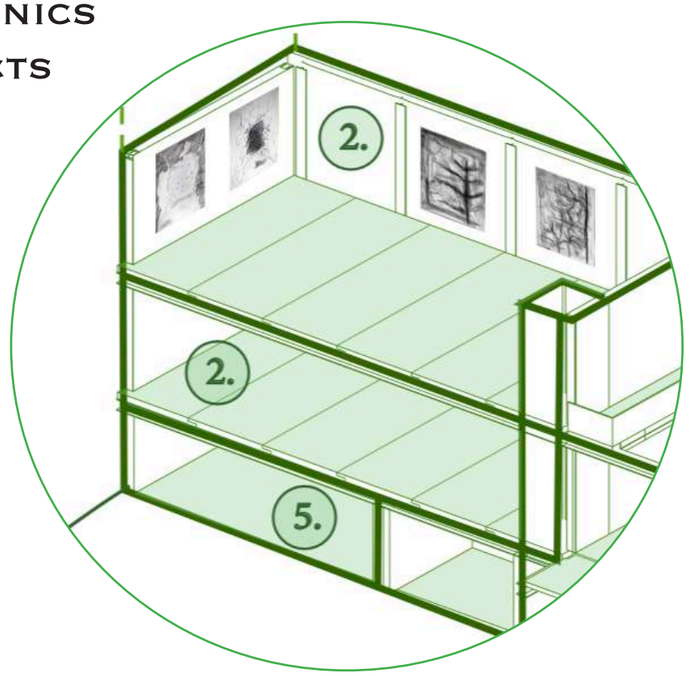


# Workshop / Mining museum

## Metal workshop - 5.

- using metals that have been mined in Cornwall
- copper handling, technics
- making everyday objects
- making sculptures



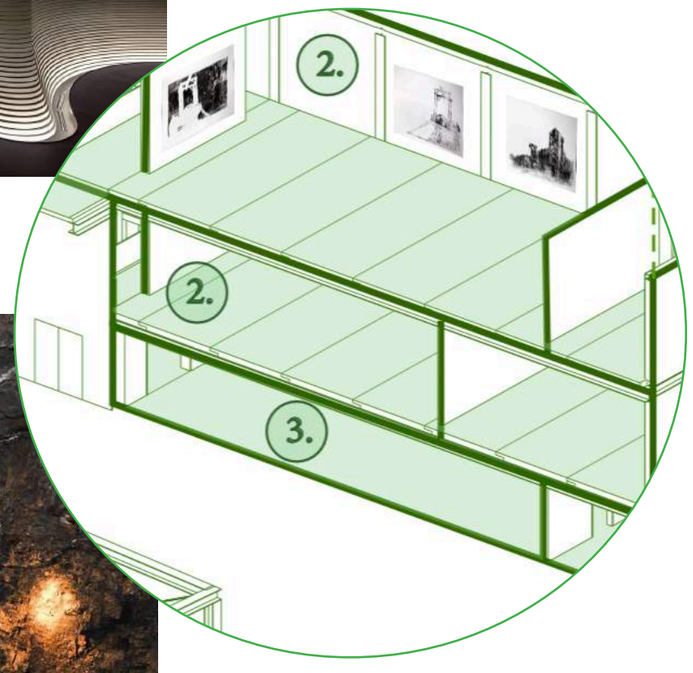





## Mining museum - 3.

- „We don't need another mining museum"
  DIFFERENT EXPERIENCE
- Interactive
- Experience what it was like in a mine
  -textures
  -helmets with headlight
  -elevator cabin simulator








# MATERIAL / ENVIRONMENTAL STRATEGY

## Steel structure

- Hybride CLT - steel structure
- spam 8m

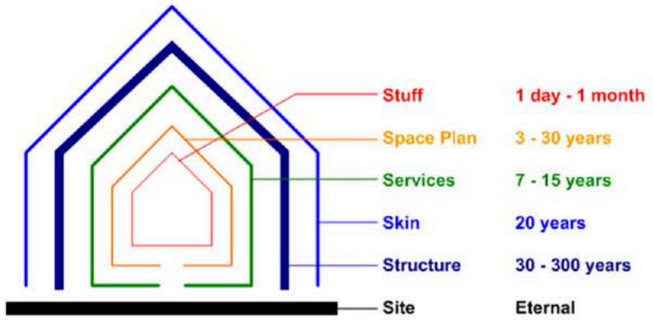
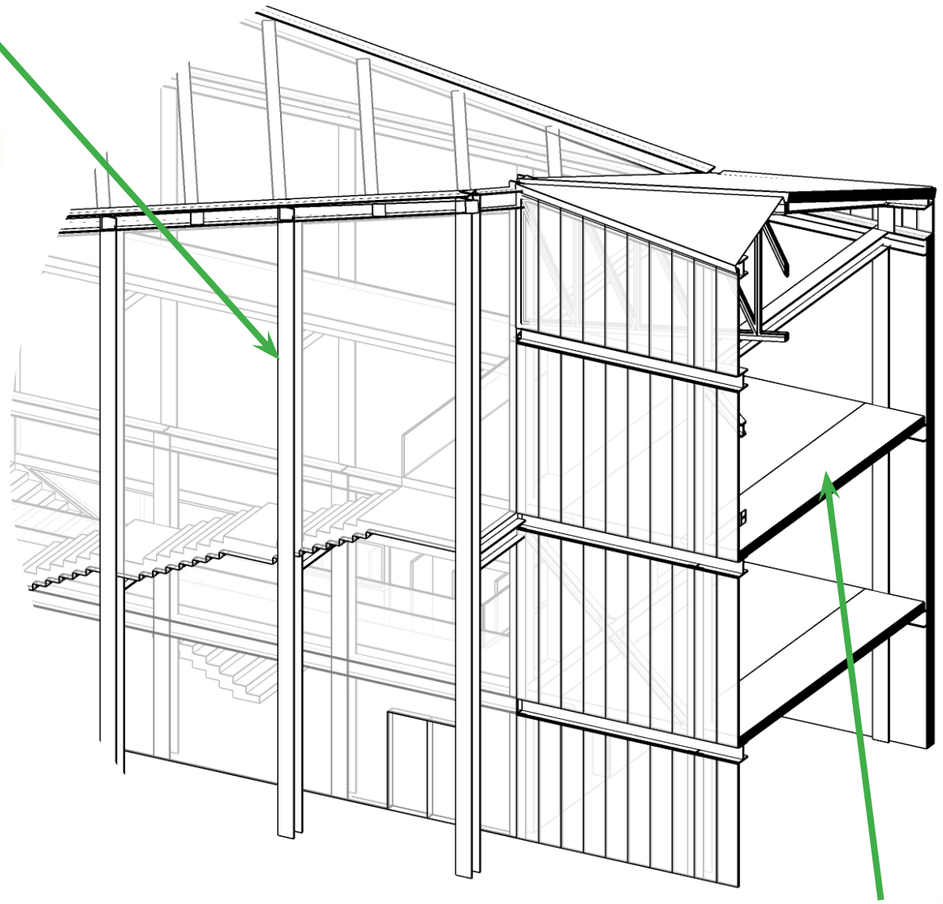
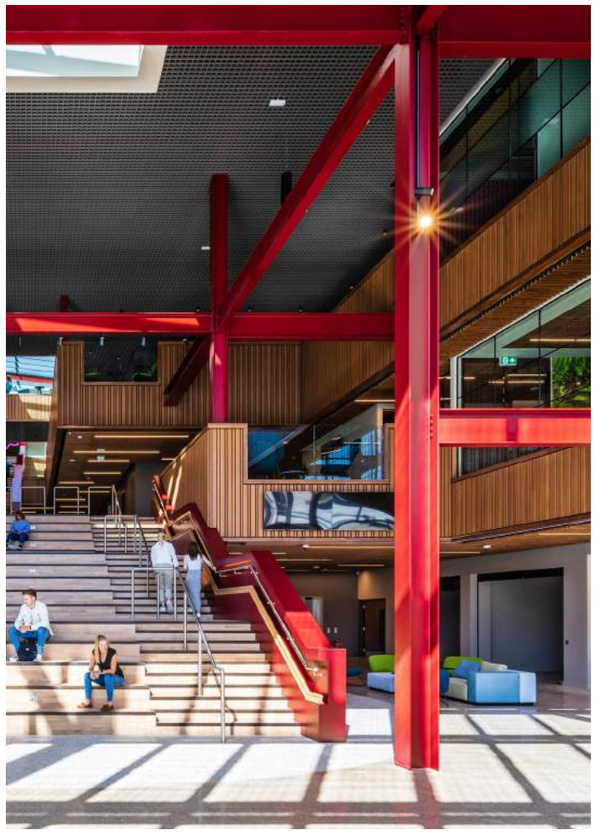



*Figure 3.13: Stewart Brand's 6 S's approach to interpreting building make-up*[145]





**Queen's University Belfast, by Hawkins\Brown and RPP Architects**

- Emphasis on structure
- Open foyer

## Solar panel

- south-west orientation
- green energy



## CLT flooring

- short spam 3m - direction of force
- half lap joint
- assembly on site

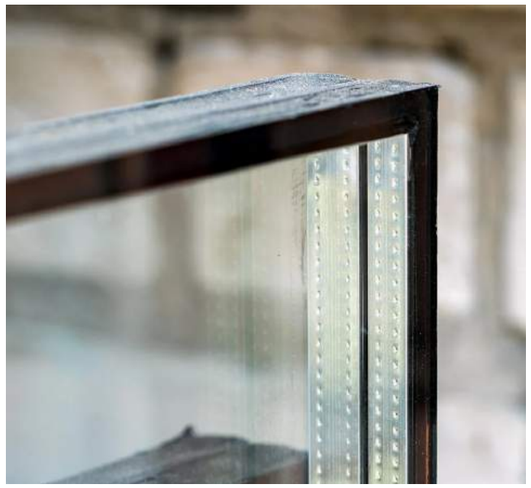


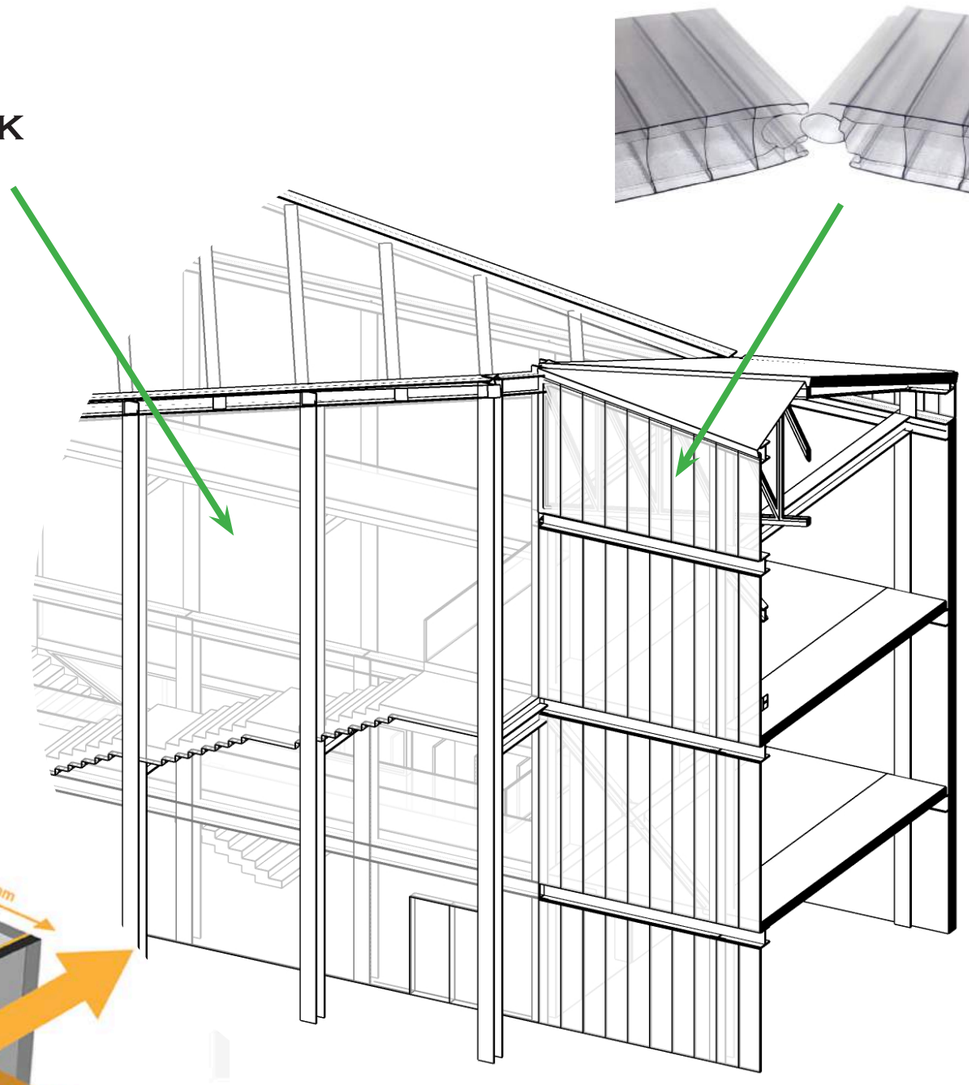


# MATERIAL / ENVIRONMENTAL STRATEGY

## Triple glazing

- good U-value: 0.2 W/m2K
- sunlit foyer
- Ventilation strategy
  prevent overheating

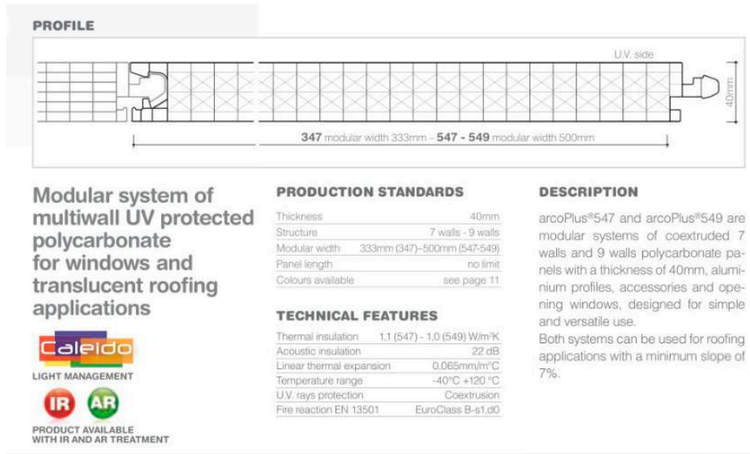


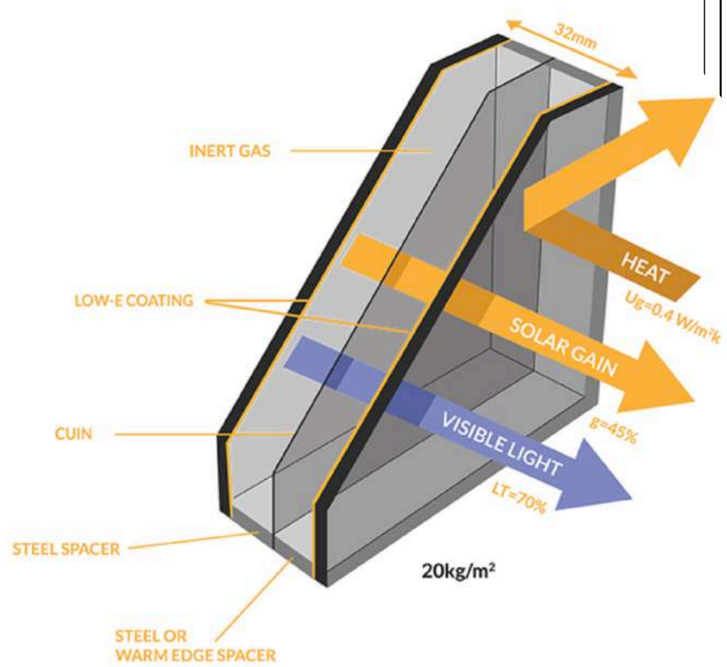




## Policarbonate wall/rainscreen

- Fire classification as per din en 13501
- Insulated - 1.1-1.0 W/m2K
- Light weight
- anti glare day light - homogene light diffusion




Technical Information

Performance

| | |
|---|---|
| U-Value (Double Glazed IGU) | 0.4 W/m2K |
| U-Value (Triple Glazed IGU) | 0.2 W/m2K |
| Slim Glazing | Up to 36% Thinner |
| Less Glazing Used | Up to 33% Less Glass |
| Lowers Carbon Footprint | Yes |
| Light Transmission | 70% |

## English National Ballet School, by Glenn Howells Architects

- Steel beam facade with polycarbonate



# PROPOSAL - Ground floor plan




1. Foyer (72m2)
2. Temporary exhibition space
3. Mining museum (117m2)
4. Social beacon (127m2)
5. Workshop (47m2)
6. Landmark tower
7. Parking/deliveries

offices, storage, WC, cloakroom, ticket office

1:200

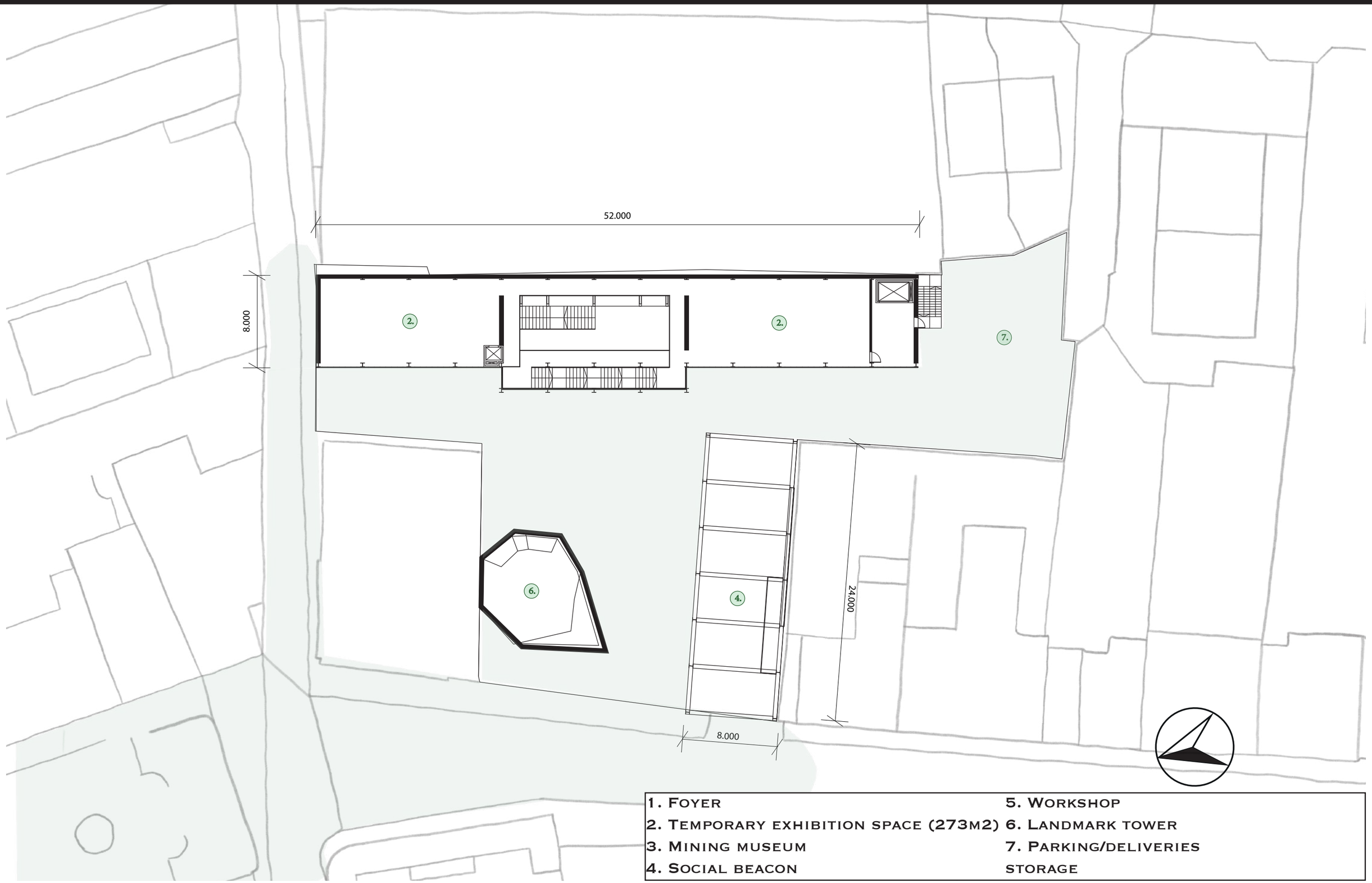
# PROPOSAL - First floor plan




1. Foyer
2. Temporary exhibition space (276m2)
3. Mining museum
4. Social beacon
5. Workshop
6. Landmark tower
7. Parking/deliveries storage

1:200

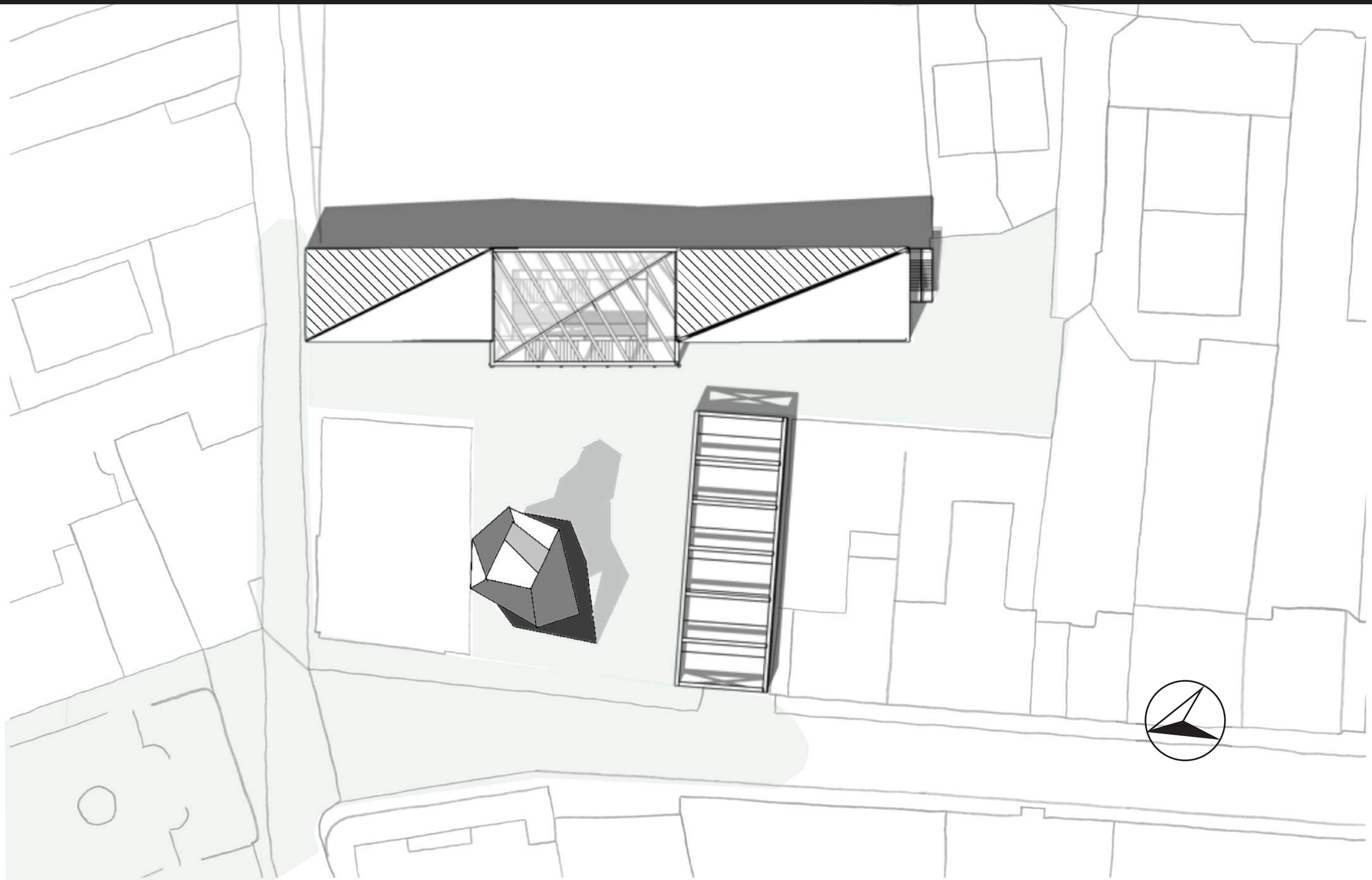
# PROPOSAL - Second floor plan




1. Foyer
2. Temporary exhibition space (273m2)
3. Mining museum
4. Social beacon
5. Workshop
6. Landmark tower
7. Parking/deliveries storage

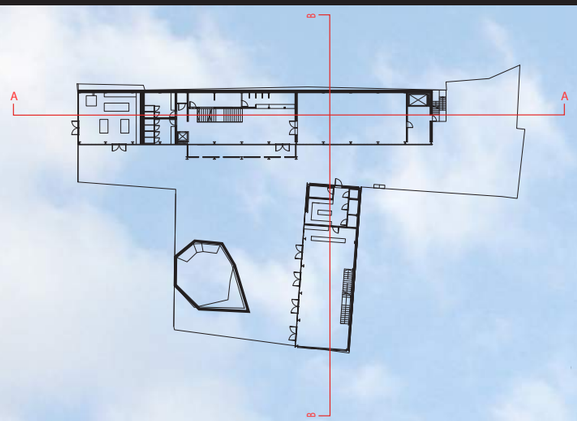
1:200

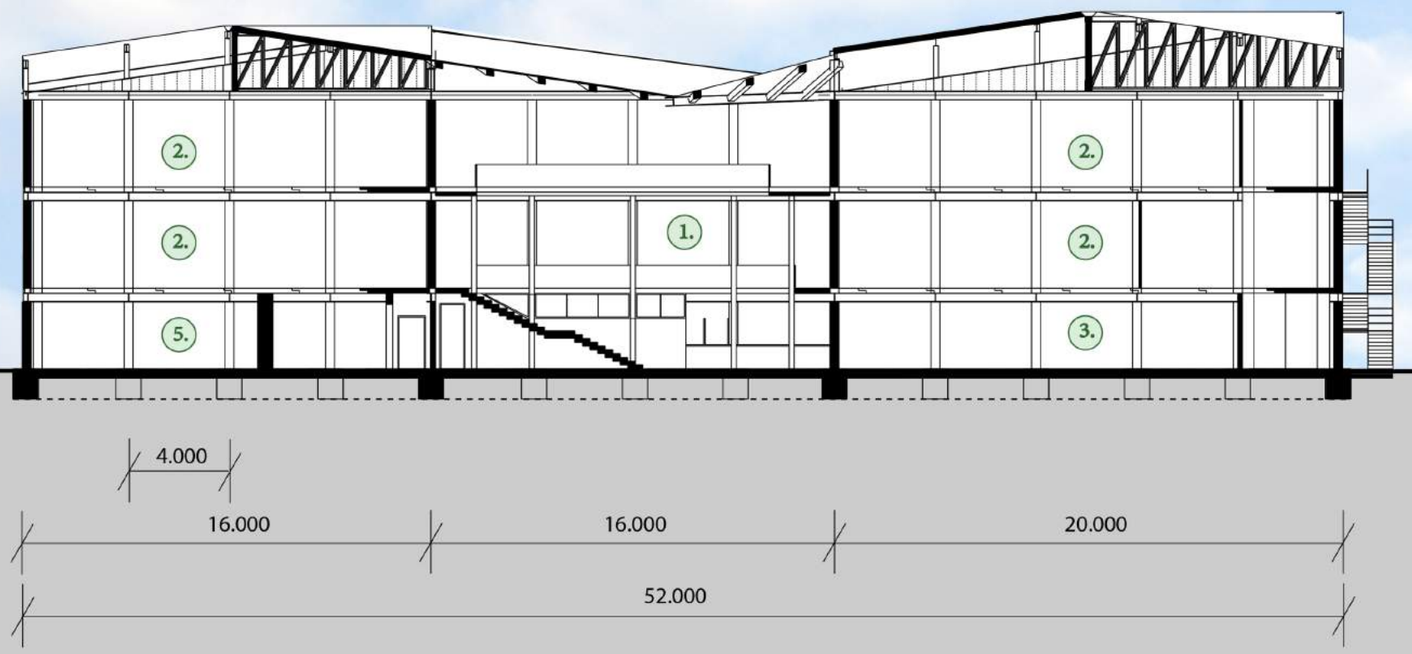
# PROPOSAL - Site plan with roof plan



1:200

# PROPOSAL - AA SECTION

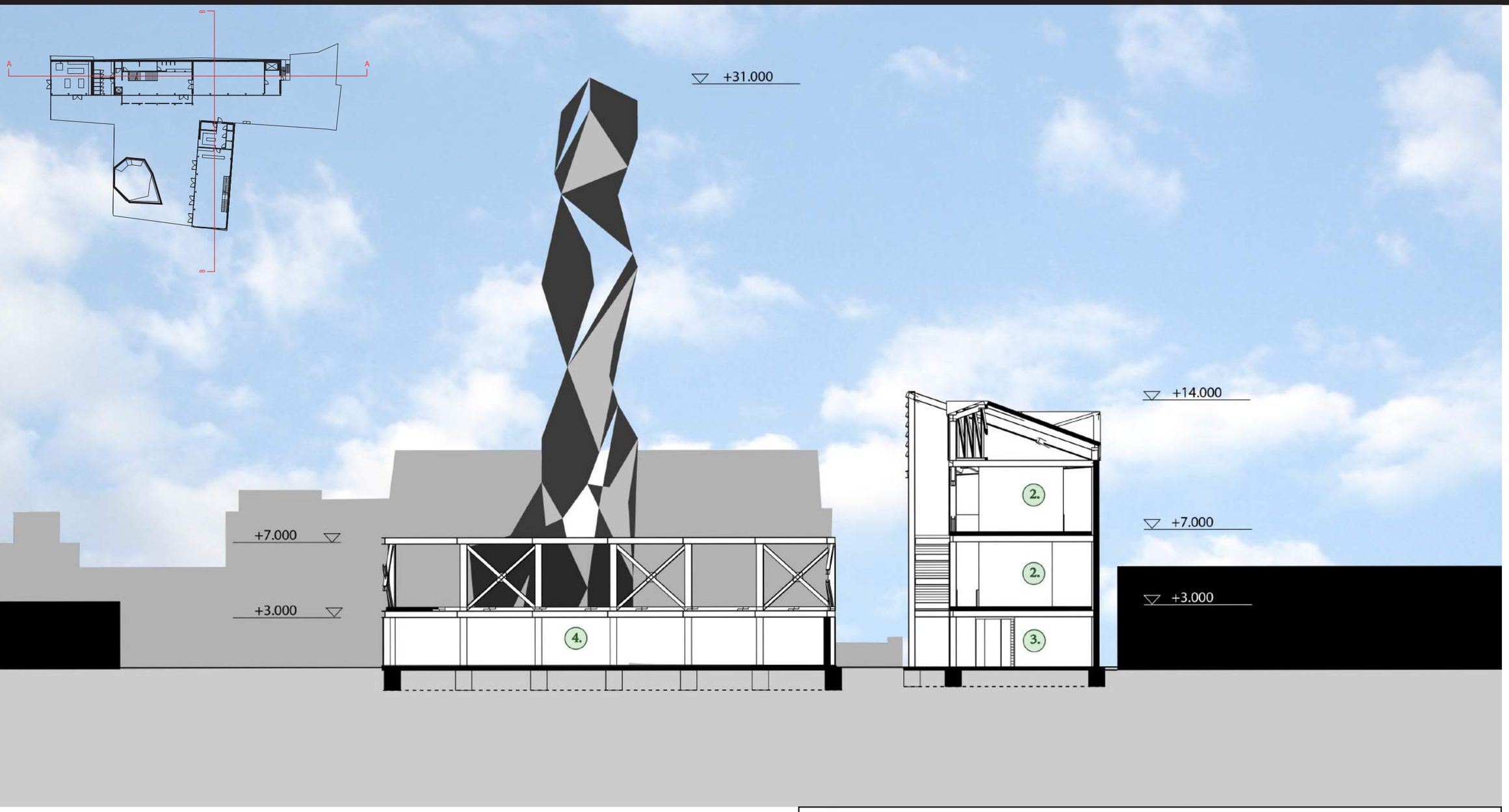



| | |
|---|---|
| 1. Foyer | 5. Workshop |
| 2. Temporary exhibition space | 6. Landmark tower |
| 3. Mining museum | 7. Parking/deliveries |
| 4. Social beacon | storage |

**1:200**

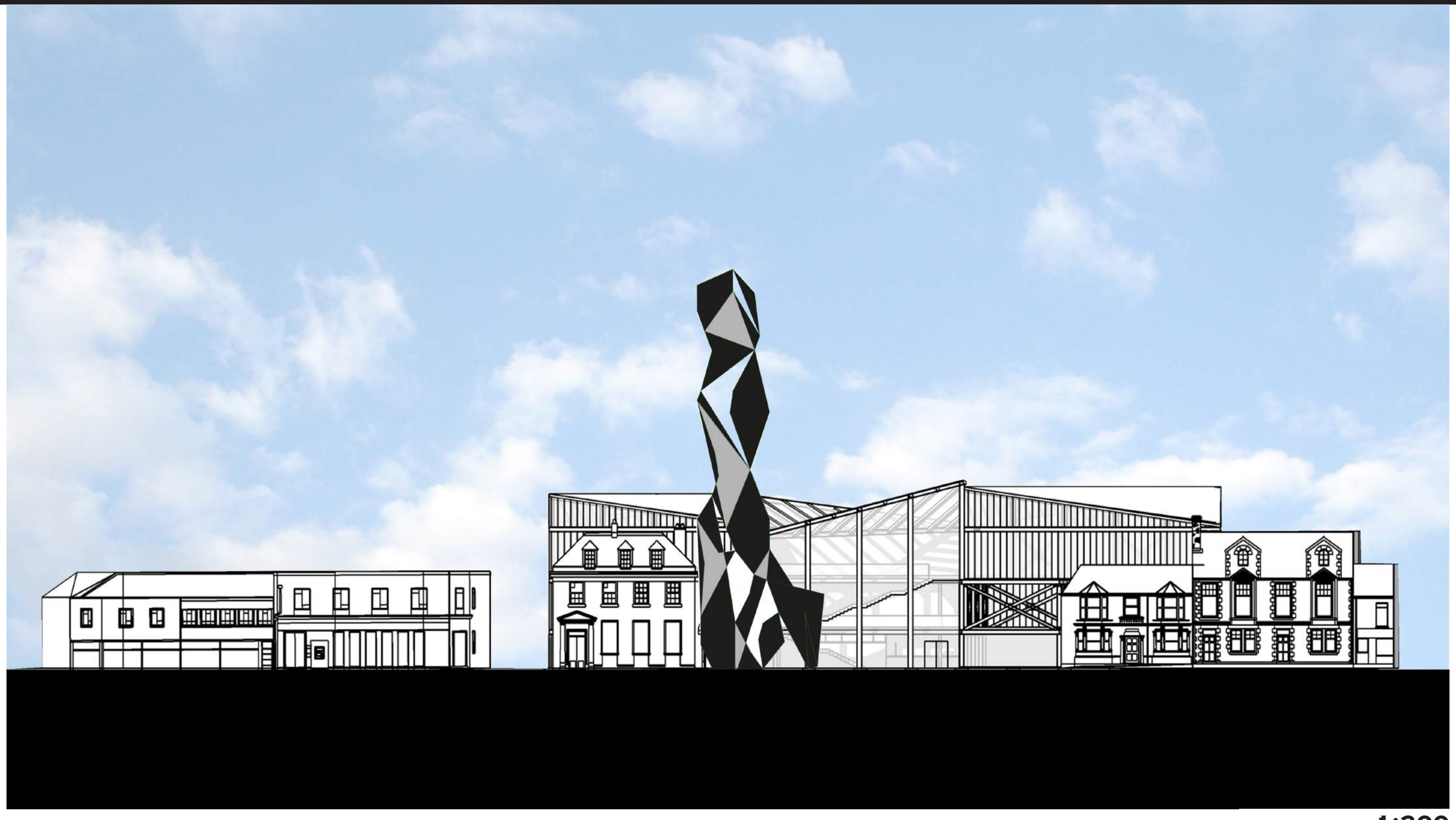
# PROPOSAL - BB SECTION




| | |
|---|---|
| 1. Foyer | 5. Workshop |
| 2. Temporary exhibition space | 6. Landmark tower |
| 3. Mining museum | 7. Parking/deliveries |
| 4. Social beacon | storage |

**1:200**

# PROPOSAL - Street elevation



1:200

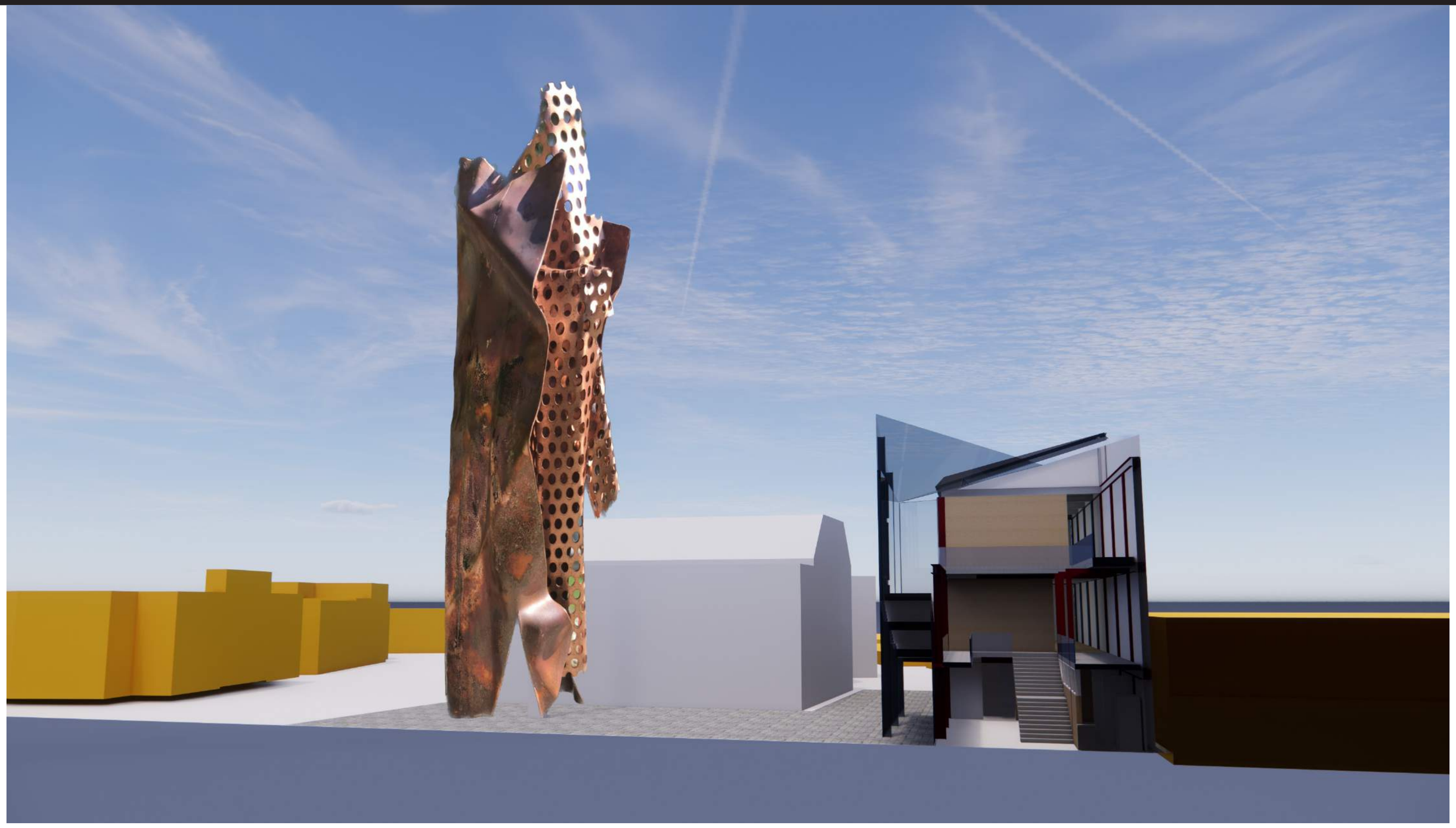
# PROPOSAL - WITH LANDMARK MONTAGE



# PROPOSAL - Structure with landmark montage



# PROPOSAL - Cross section with landmark montage



# PROPOSAL - Longitudinal section



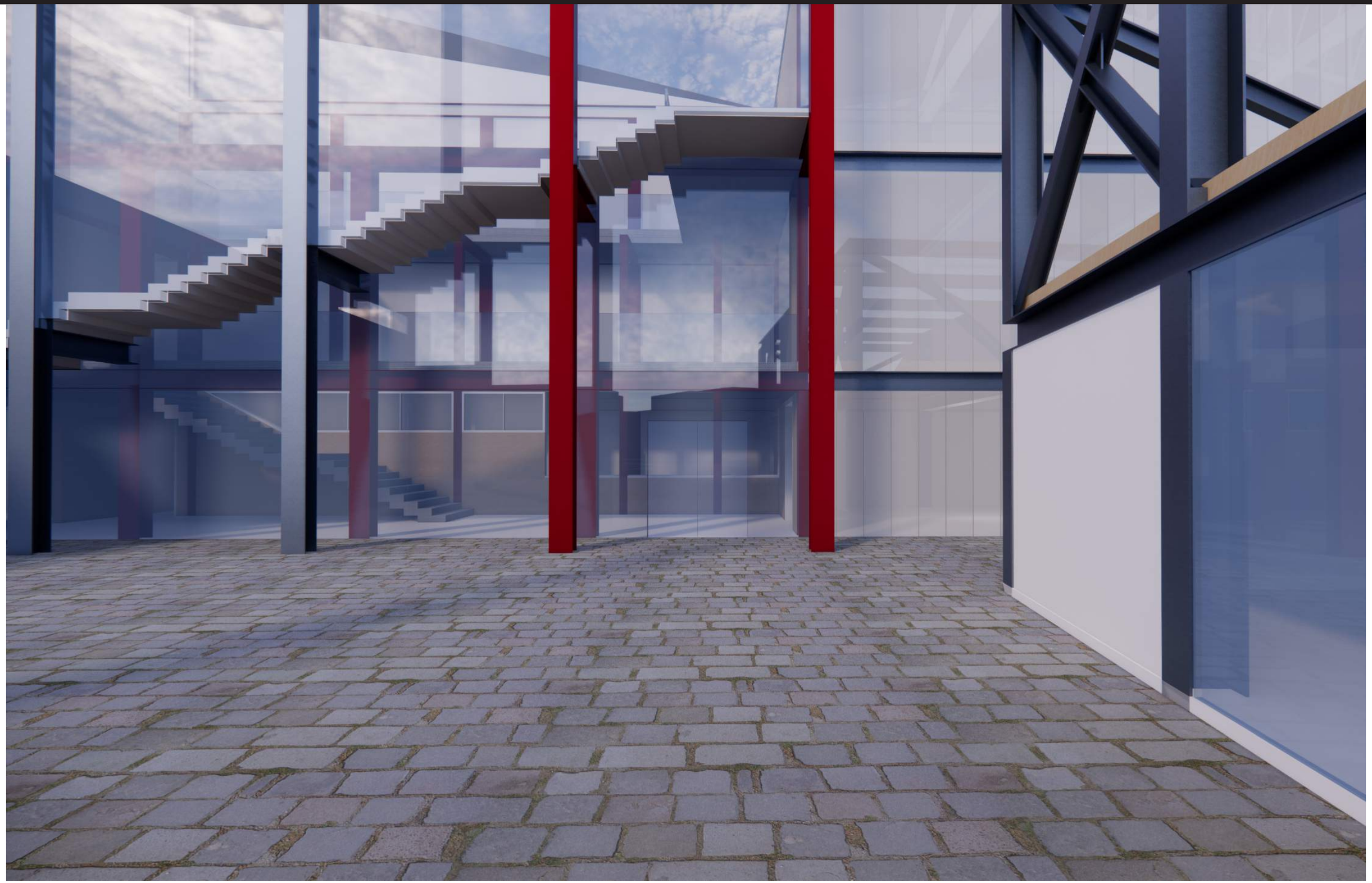
# PROPOSAL - Street view with landmark montage



# PROPOSAL - Street view with landmark montage



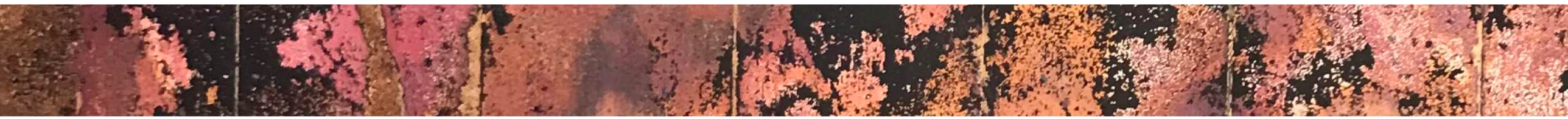
# PROPOSAL - Museum entrance



# PROPOSAL - Exhibition space



2023.



FALMOUTH UNIVERSITY