

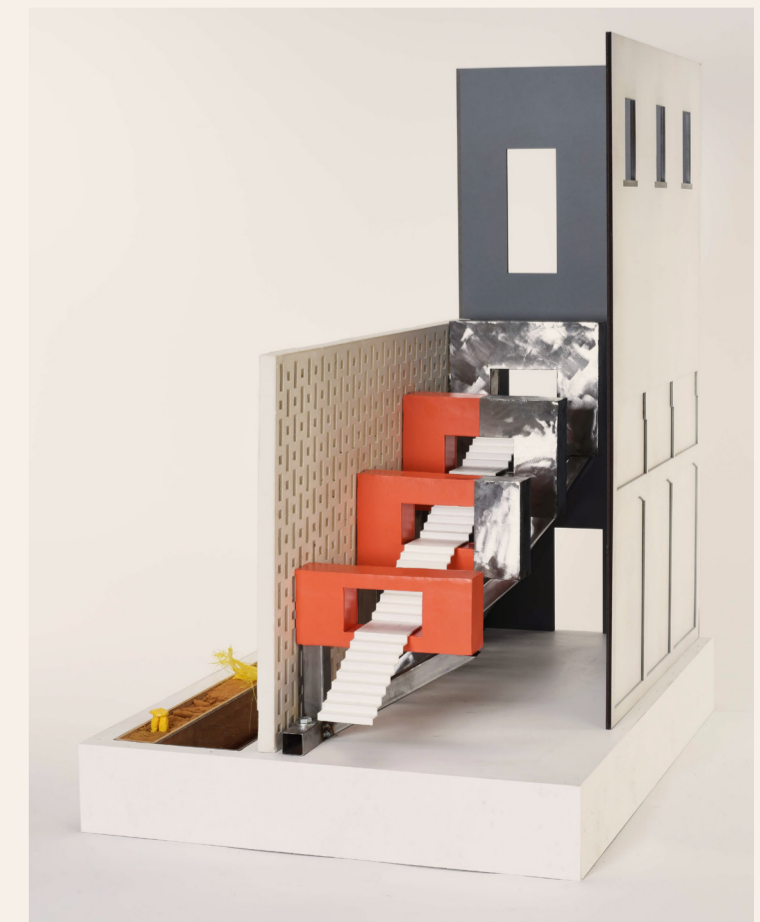
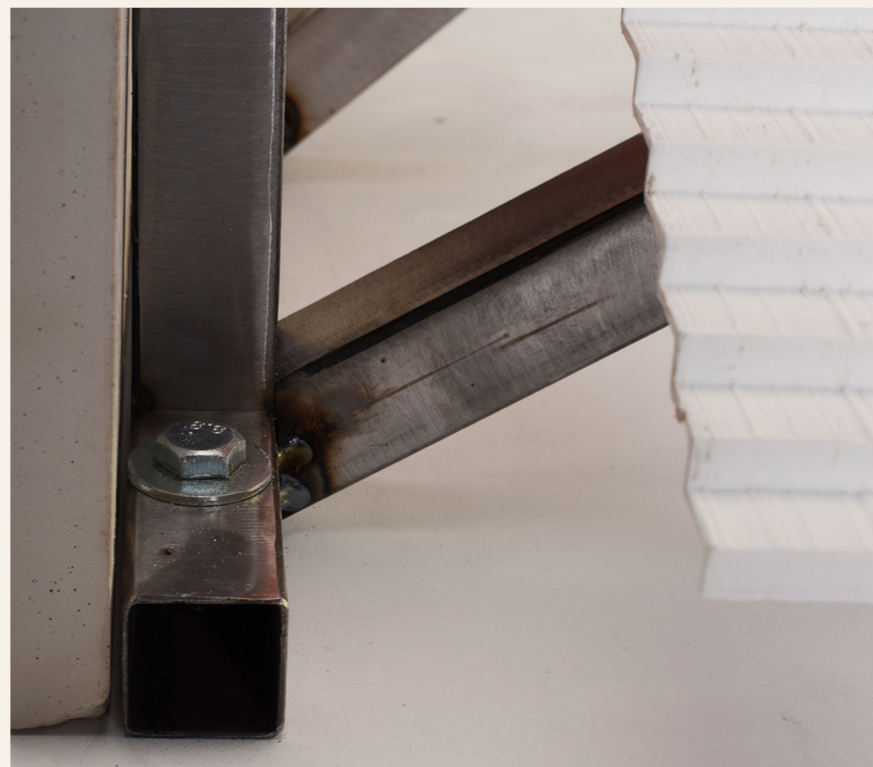
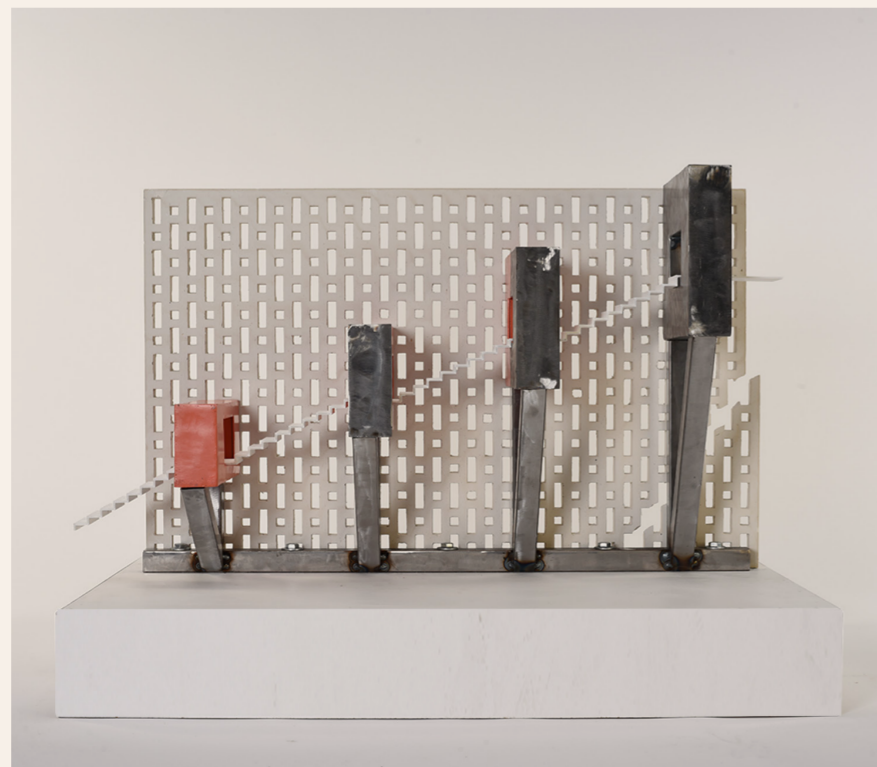
SILO D - BEYOND THE BARGE



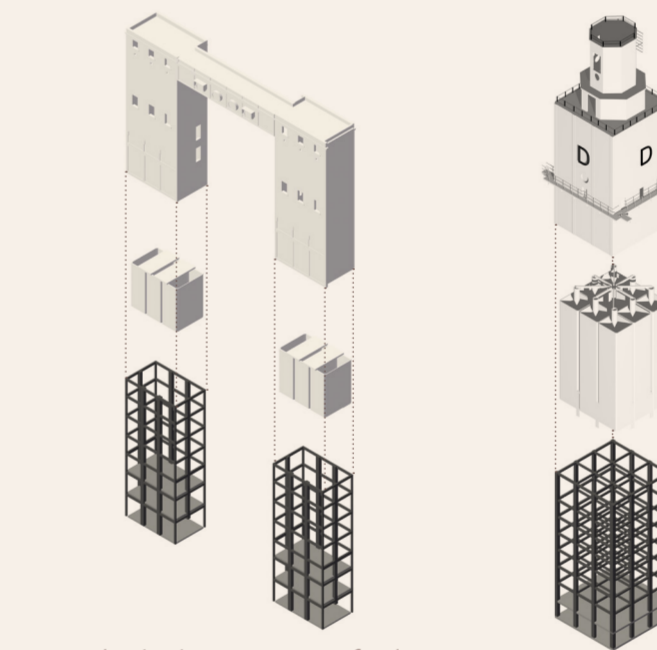
Collage of Beyond The Barge

I began the process of designing my proposal by making this synthesis model. I wanted it to reflect the experience of going on a journey into becoming more vulnerable. This is the concept I kept in mind when I designed Beyond The Barge. I took one element from each precedent and created a collaged 3D model.

The precedents I chose are all examples of structures that have been created with the sole purpose of helping people.



Physical model of Silo D @ 1:50

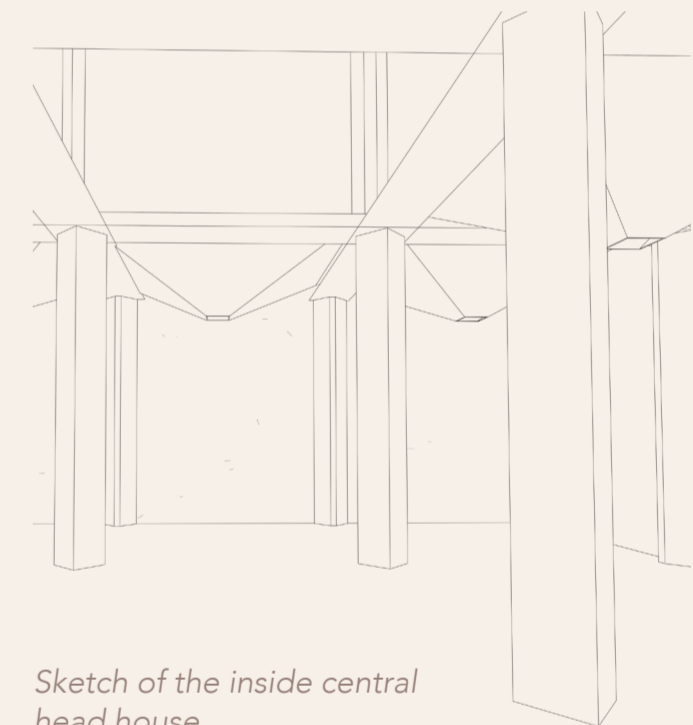


Exploded isometric of Silo D - showing steel construction

THE BRIEF
An adaptive re-use project taking an existing 1920's grain silo called Silo D in Newham, London and giving it a new function whilst considering circular economy.

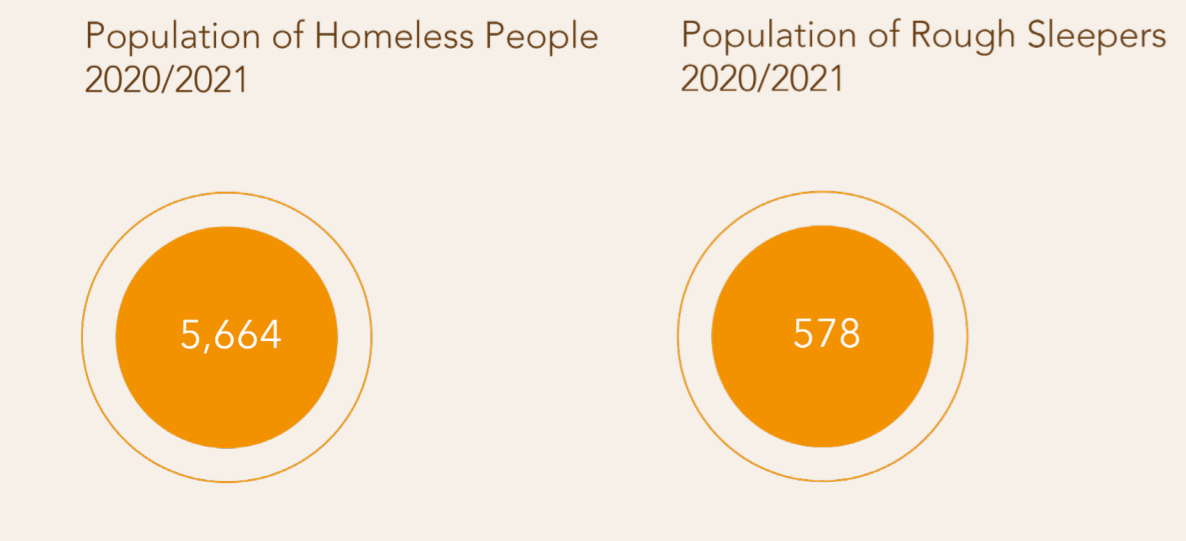
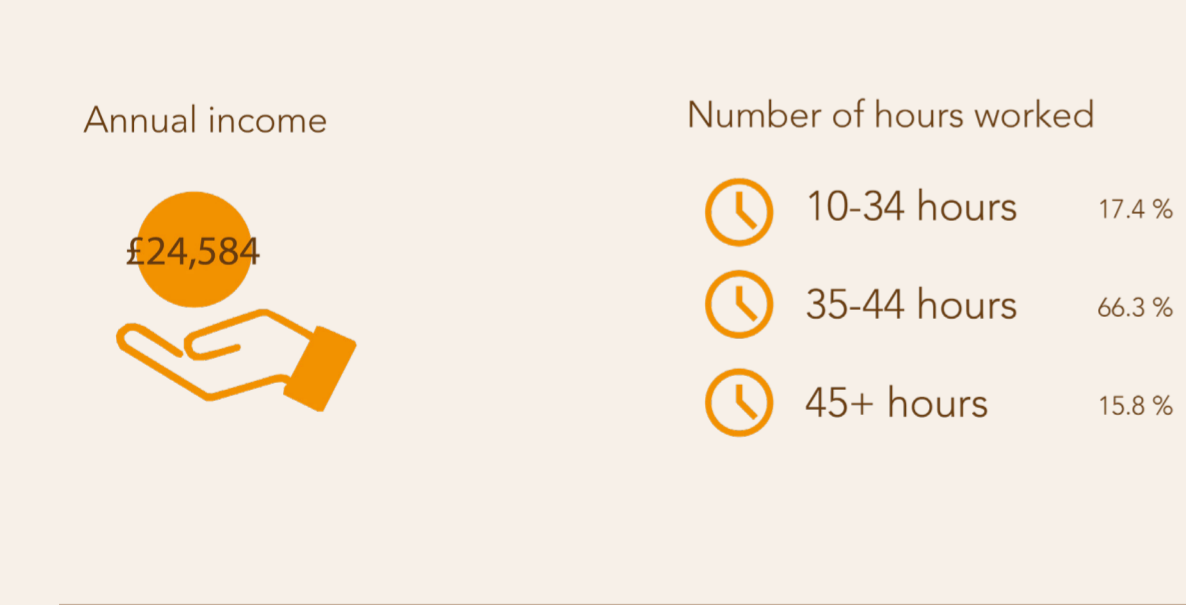
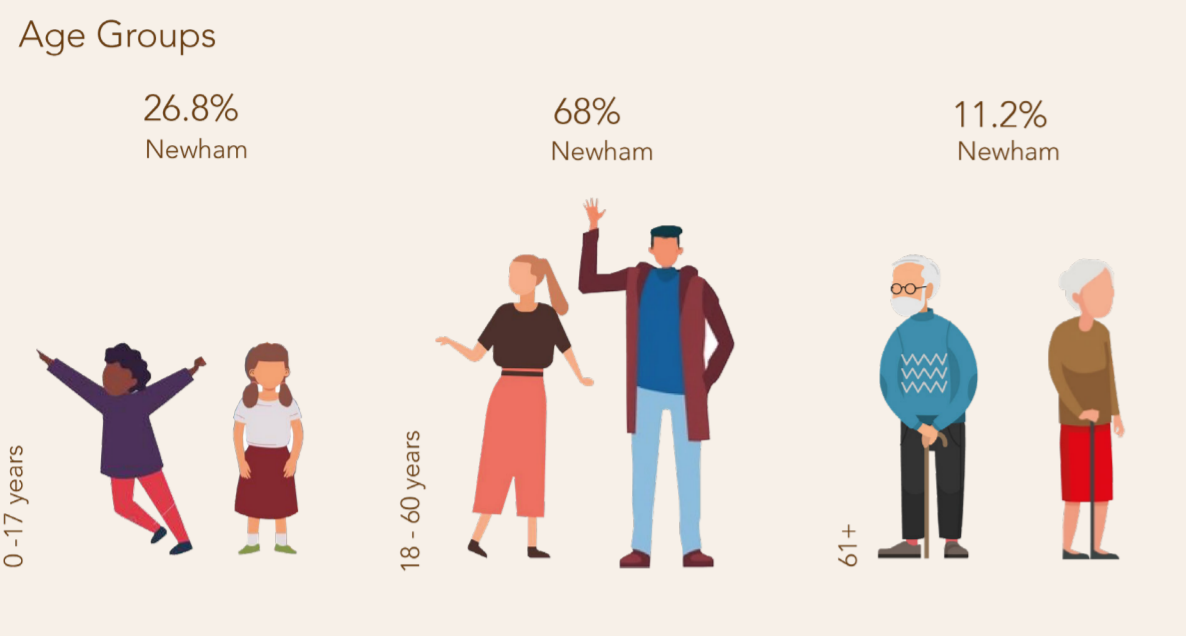
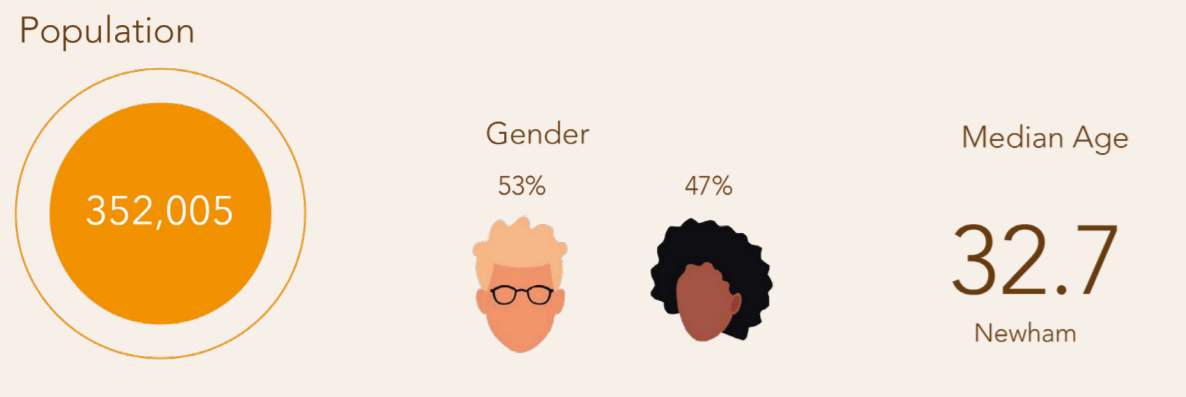
MY PROPOSAL
For this proposal I began by researching into the local demographic of Newham and I found that it had one of the highest populations of homeless people and rough sleepers in London. Due to this I designed a homeless shelter called Beyond The Barge that provides accommodation, kitchen/cafe, counselling spaces and a workshop space for people between the ages of 18-30.

The workshop reuses the 1980's Patera Building System by Hopkins as its' structure and within it disused barge boats from the Thames are renovated in order to create affordable housing. These boats can then be sold on and the money received can be put back into the programme. The workshop gives residents a stable job and income, as well as offering them transferable skills that can be taken forward in their next steps after leaving the shelter. The shelters ground and first floor are open to the public in order for residents to make a connection with their local community and feel as though they have a safe space to socialise with the public.



Sketch of the inside central head house

SOCIAL CONTEXT - WHO IS IT FOR?



	NEW DAY PROJECT	BRIDGES CHURCH	CHURCHES FOOD BANK	COMMUNITY HALL	THE DOCKLANDS CENTRE
MONDAY	8:30 - 14:30	10:00 - 14:00	CLOSED	CLOSED	CLOSED
TUESDAY	8:30 - 14:30	CLOSED	9:00 - 11:00	10:00 - 00:00	9:00 - 11:30
WEDNESDAY	8:30 - 14:30	CLOSED	CLOSED	CLOSED	CLOSED
THURSDAY	8:30 - 14:30	CLOSED	13:00 - 15:00	CLOSED	CLOSED
FRIDAY	8:30 - 14:30	CLOSED	CLOSED	CLOSED	CLOSED
SATURDAY	CLOSED	8:00 - 11:30	CLOSED	CLOSED	CLOSED
SUNDAY	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED
SERVICES PROVIDED	Food Shower Laundry	Breakfast NHS Clinic Laundry	Food Shower	Food	Food Shower

When I looked on the Newham Council website for the facilities for the homeless and rough sleepers, a very small list of places came up. I made a table to be able to better see where there were no resources available and was shocked to find that there was nothing available on Sundays. Also with all the resources available the latest help that is offered is 3pm except for the Community Hall which is open until midnight only 1 day a week.

I decided for my proposal I wanted a shelter that was available 24/7 that can accommodate for 17 people. As well as having communal spaces open during the day 7 days a week to encourage as much socialisation with the local community as possible.



LOCAL SCHOOL CHILDREN

Age : 7 - 18 years old

Workshop times : 9am - 5pm Monday - Friday

Cafe times: 9am - 5pm Monday - Friday

UEL STUDENTS

Age : 18 - 21 years old

Workshop times : 9am - 5pm Monday - Friday

Cafe times: 9am - 5pm Monday - Sunday

NEWHAM LOCAL COMMUNITY

Age : All ages

Workshop times : 9am - 5pm Monday - Friday

Cafe times: 9am - 5pm Monday - Sunday

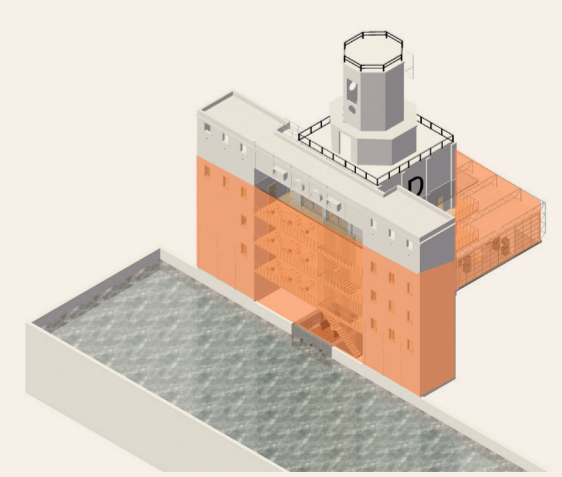
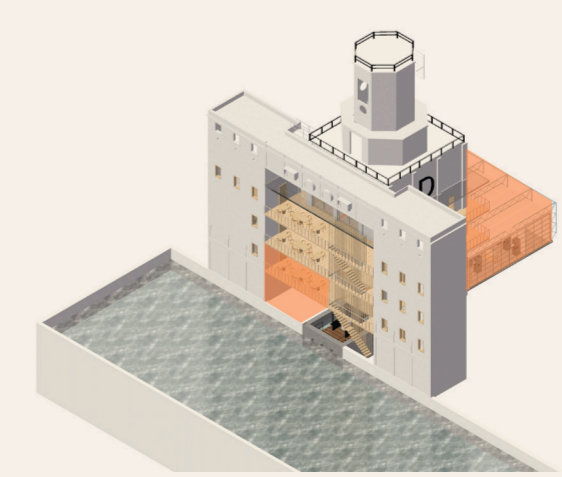
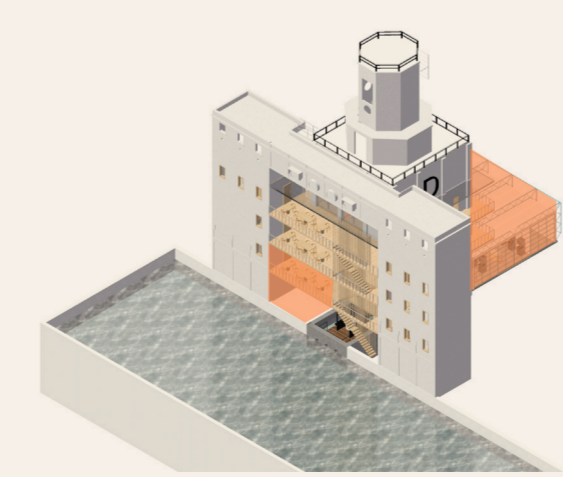
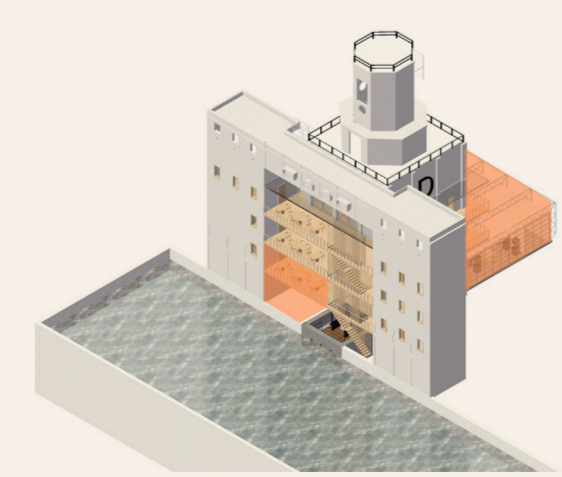
BEYOND THE BARGE RESIDENTS

Age : 18 - 30 years old

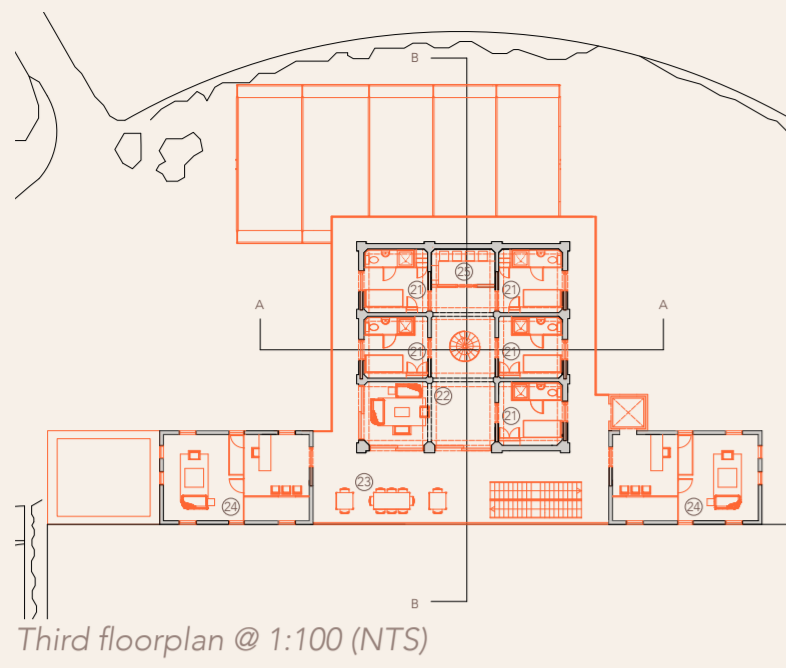
Workshop times : 9am - 5pm Monday - Friday

Cafe times: 7am - 10pm Monday - Sunday

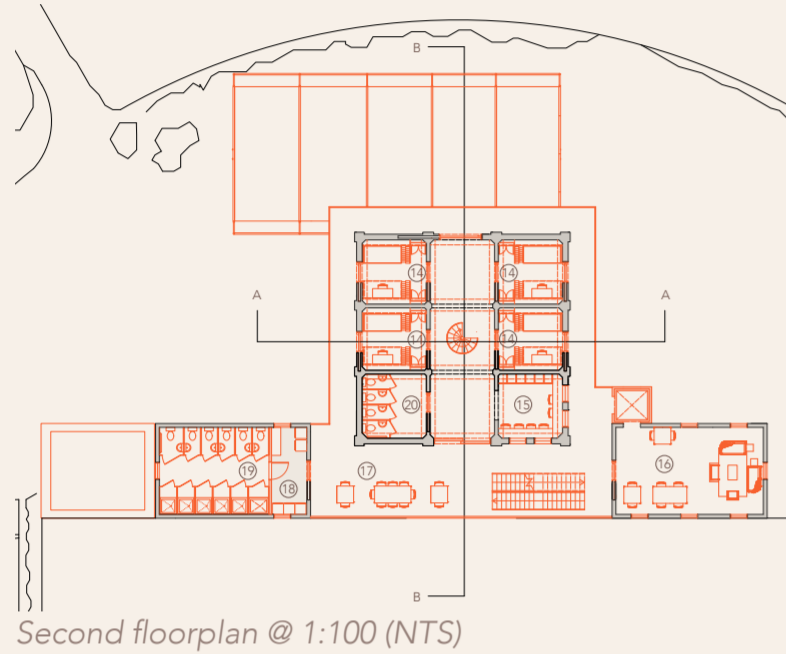
Shelter times: Open 24/7



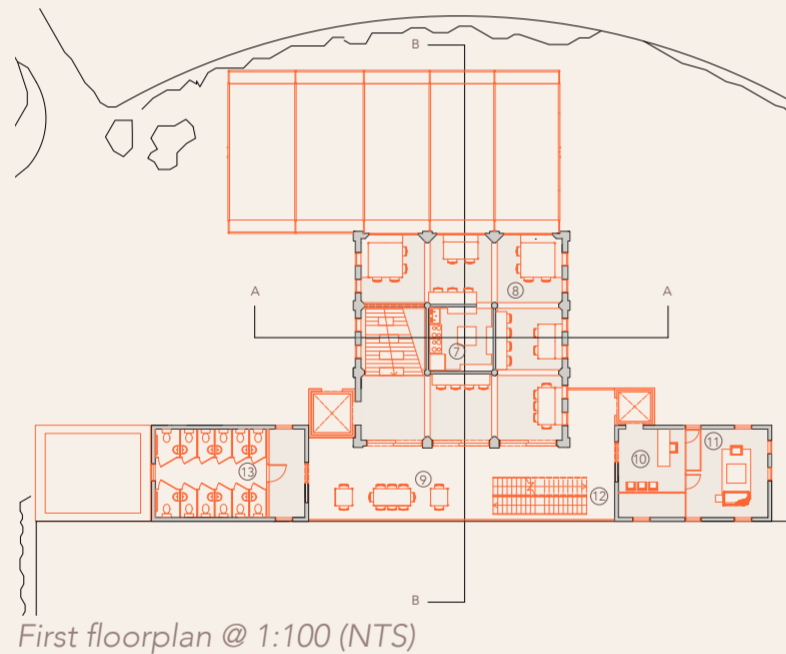
BEYOND THE BARGE PROPOSAL



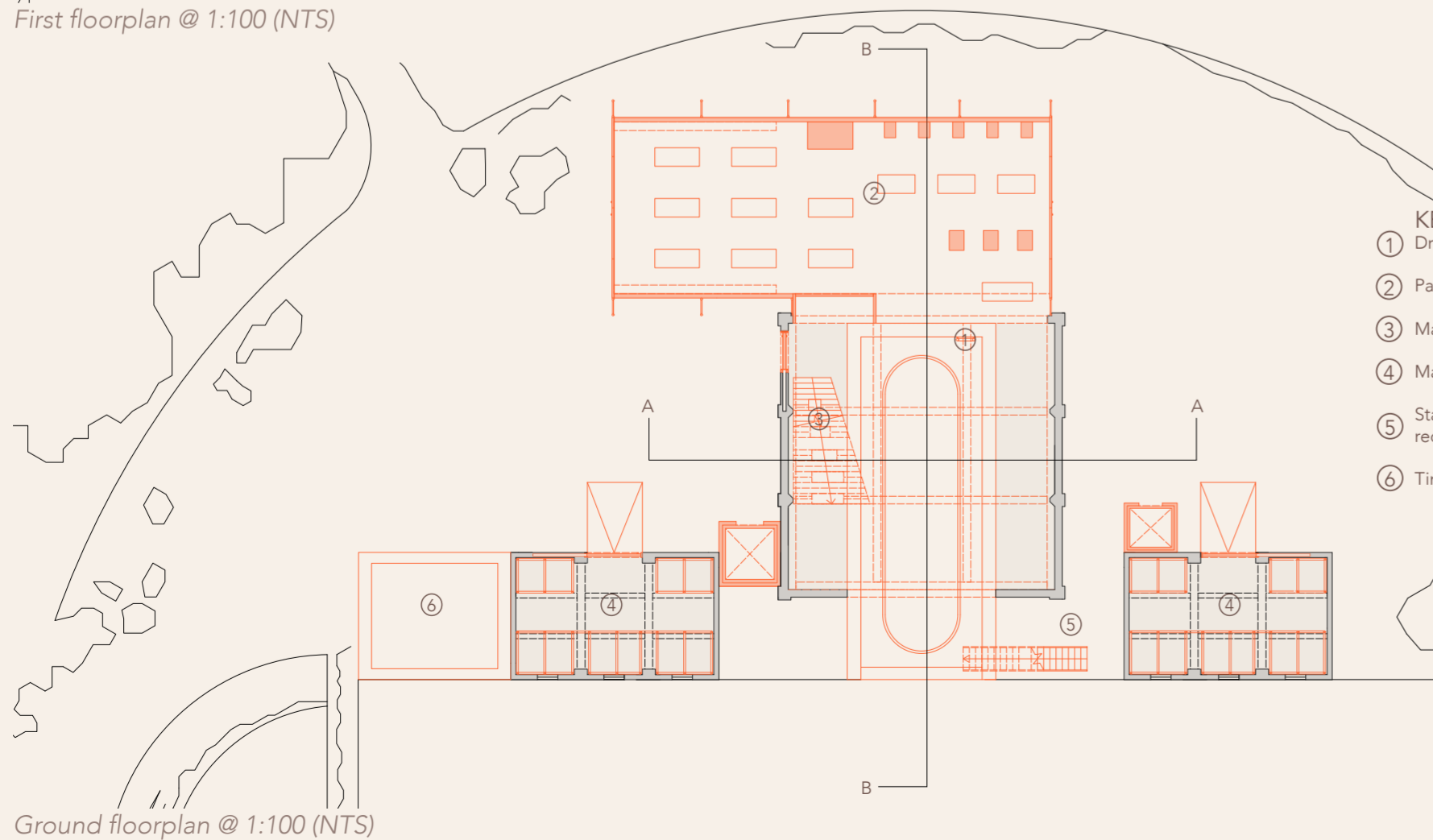
- KEY :
- ②① Private bedrooms
 - ②② Communal space
 - ②③ Outdoor seating area on balcony
 - ②④ Counselling space
 - ②⑤ Laundry room



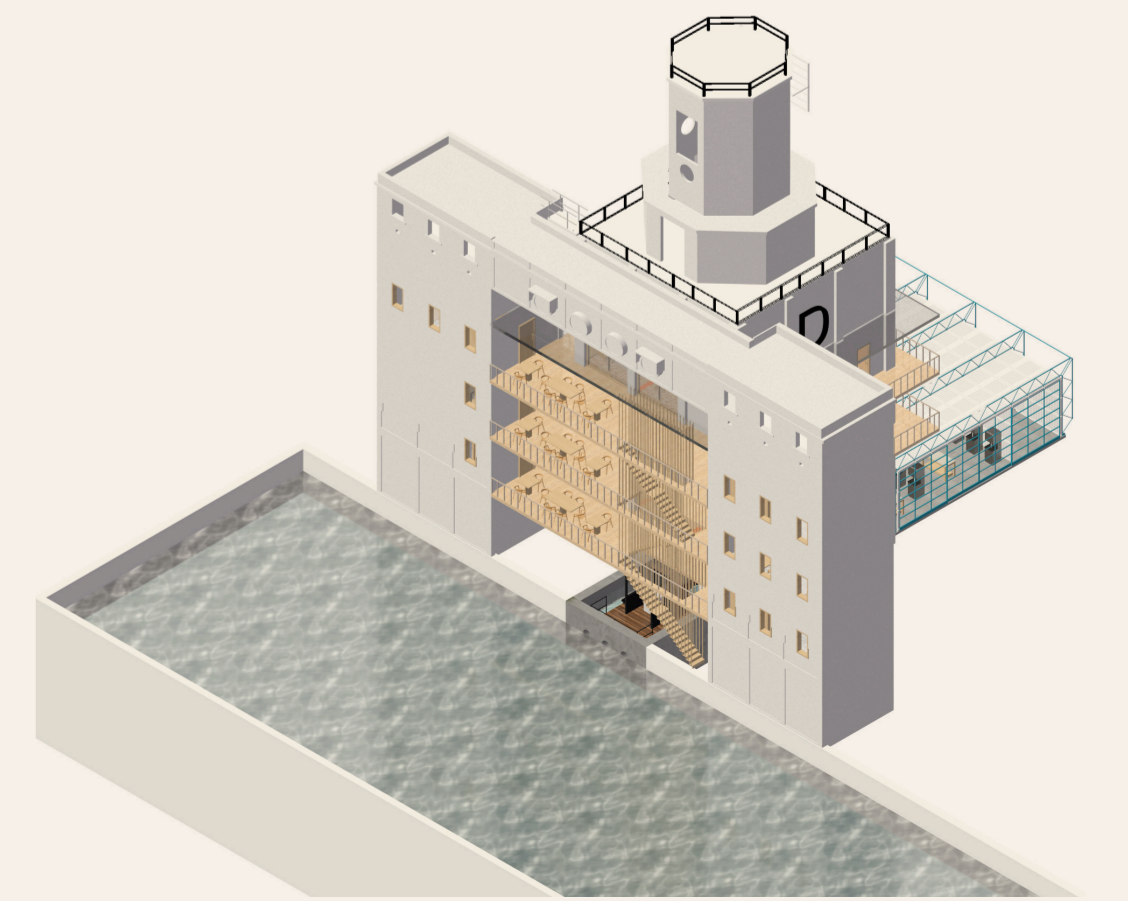
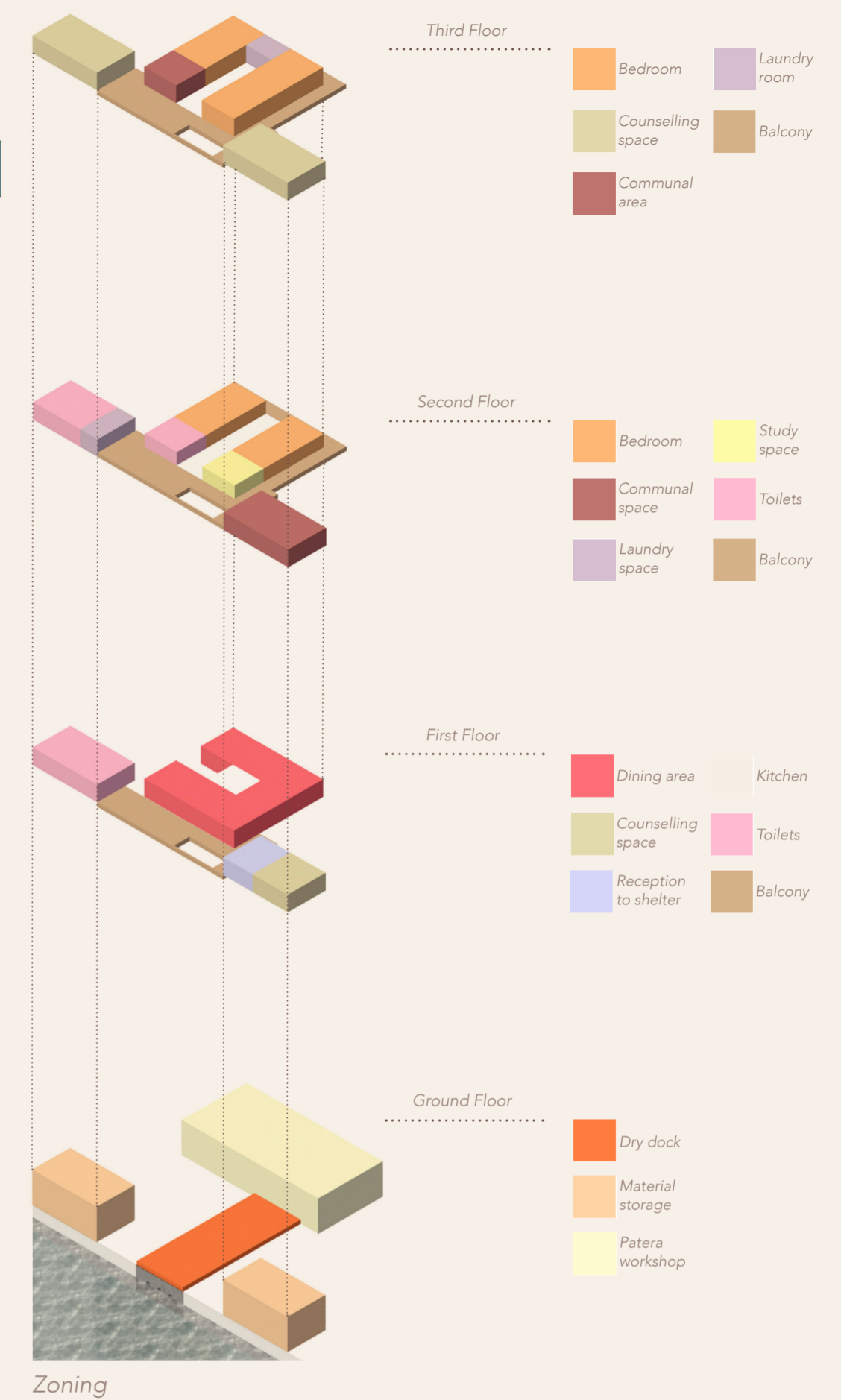
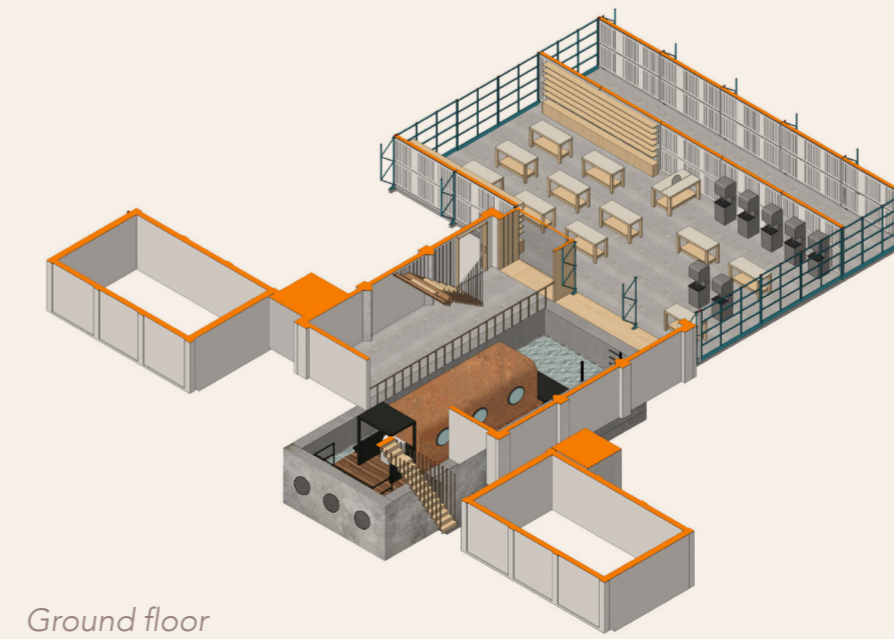
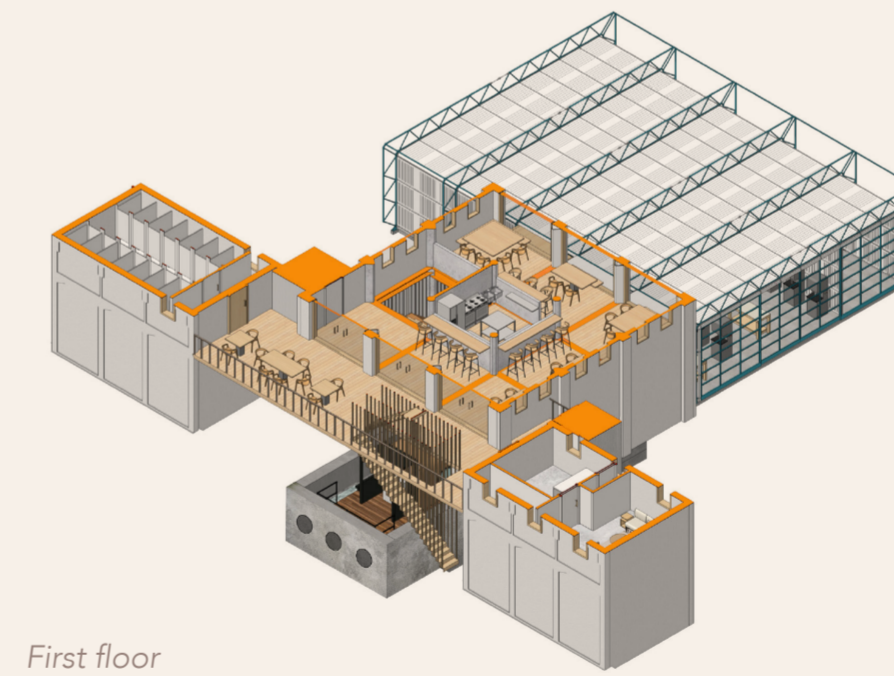
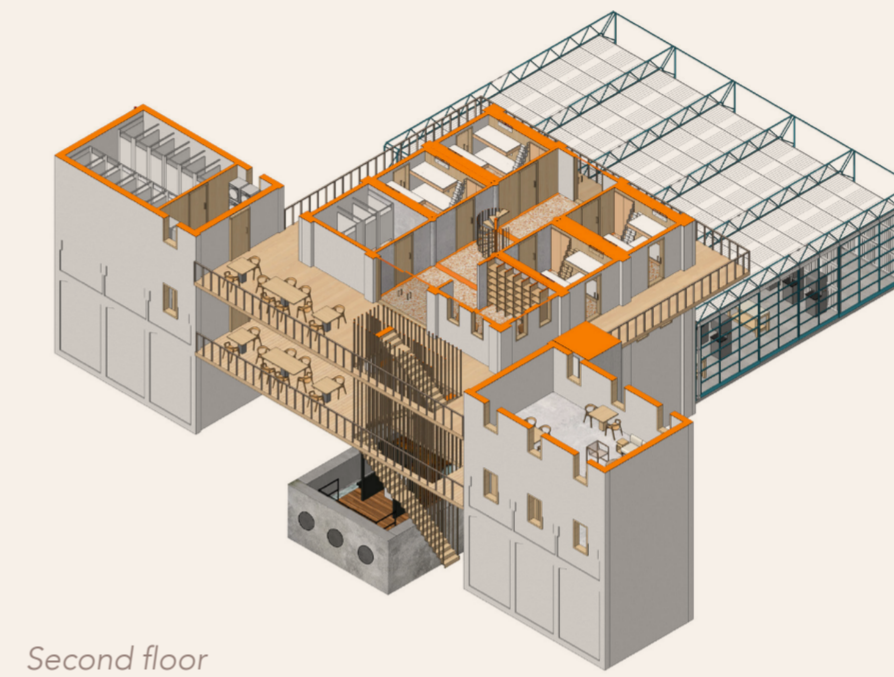
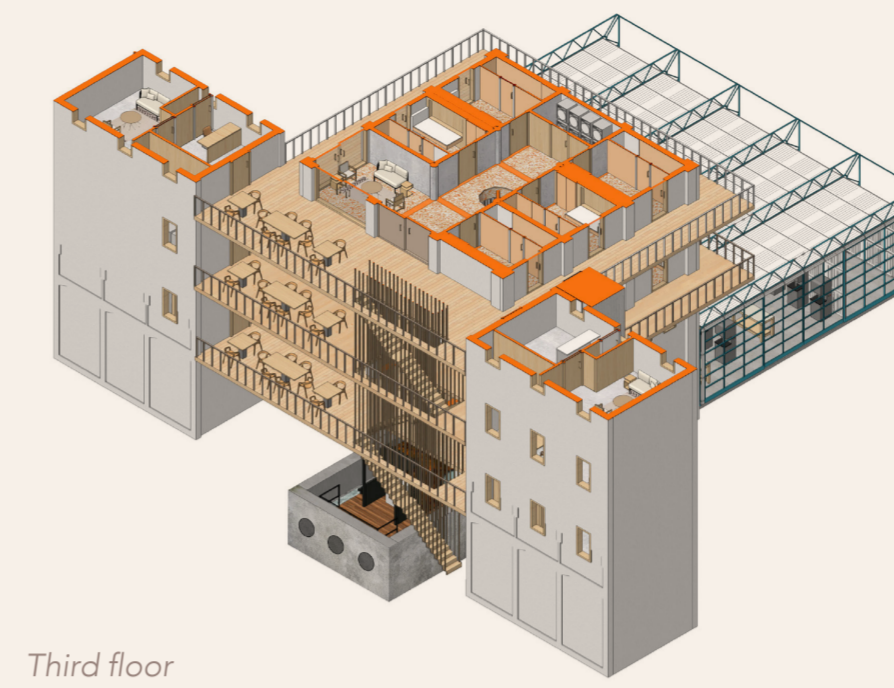
- KEY :
- ①④ Shared accommodation
 - ①⑤ Study space/ library
 - ①⑥ Communal space
 - ①⑦ Outdoor seating on balcony
 - ①⑧ Laundry room
 - ①⑨ Toilets and showers
 - ①⑩ Toilets

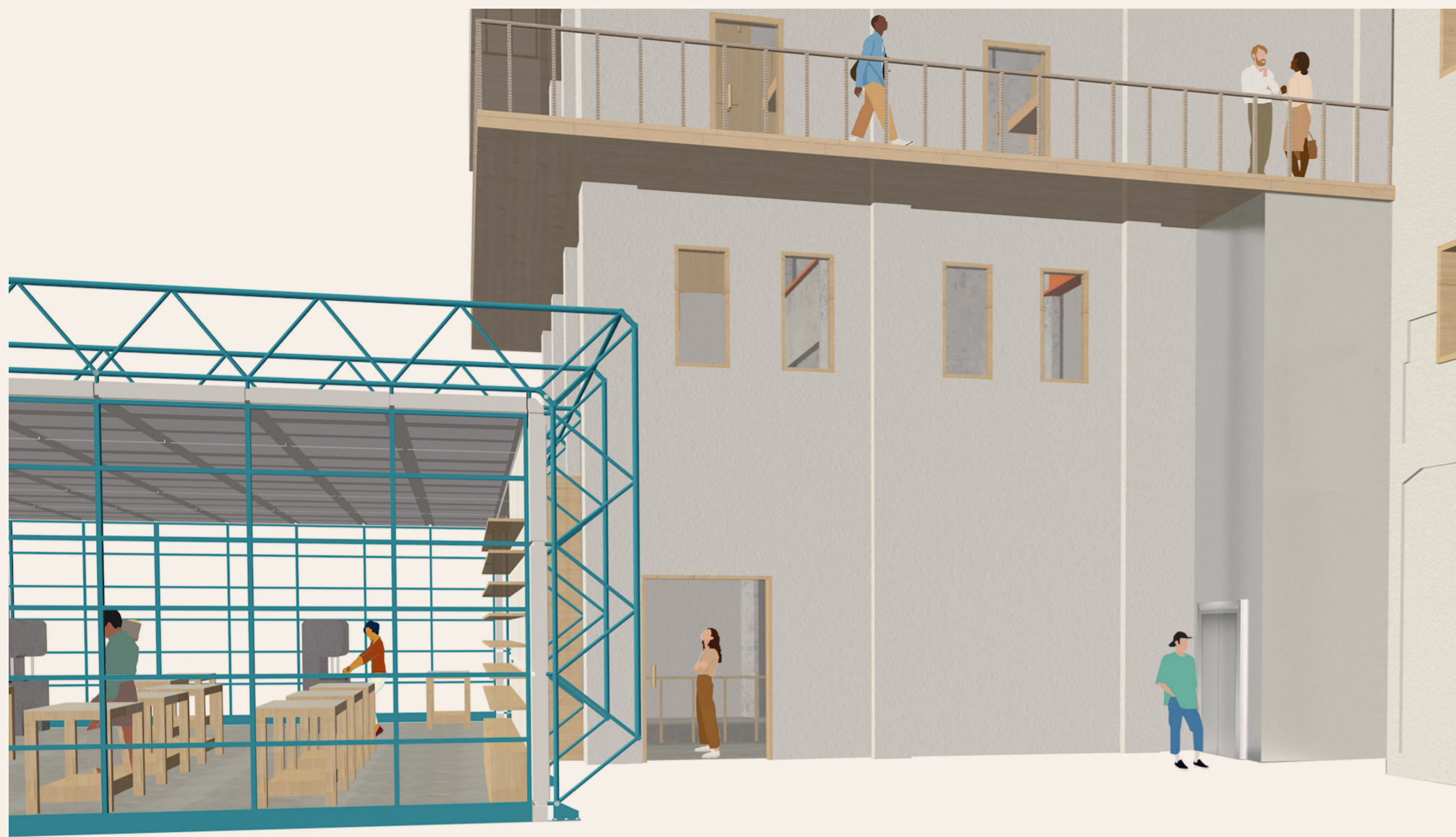


- KEY :
- ⑦ Kitchen
 - ⑧ Cafe/dining seating area
 - ⑨ Outdoor seating on balcony
 - ⑩ Reception to shelter
 - ⑪ Counselling space
 - ⑫ Staircase up to shelter accommodation
 - ⑬ Toilets

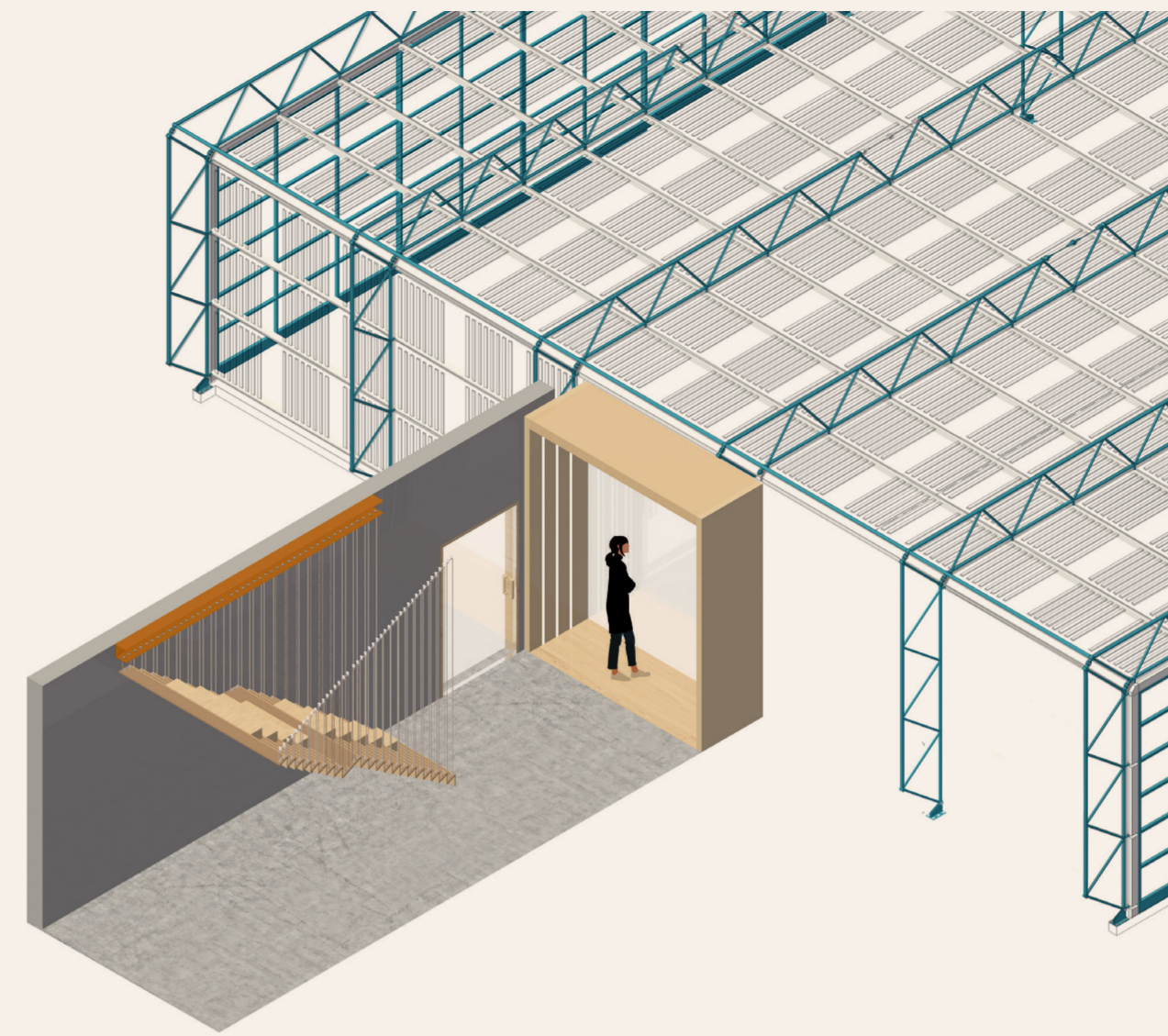


- KEY :
- ① Drydock
 - ② Patera workshop
 - ③ Main staircase
 - ④ Material storage
 - ⑤ Staircase up to shelter reception
 - ⑥ Timber donations box





Entrance to Beyond The Barge

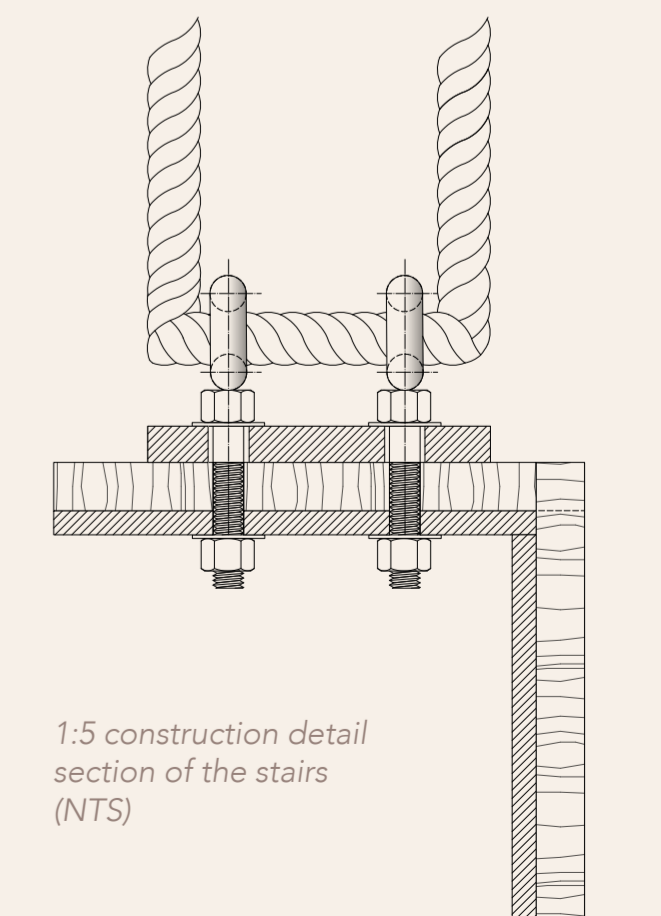
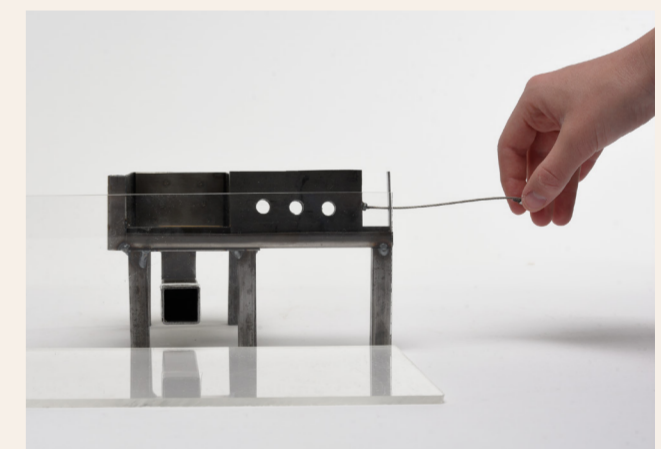
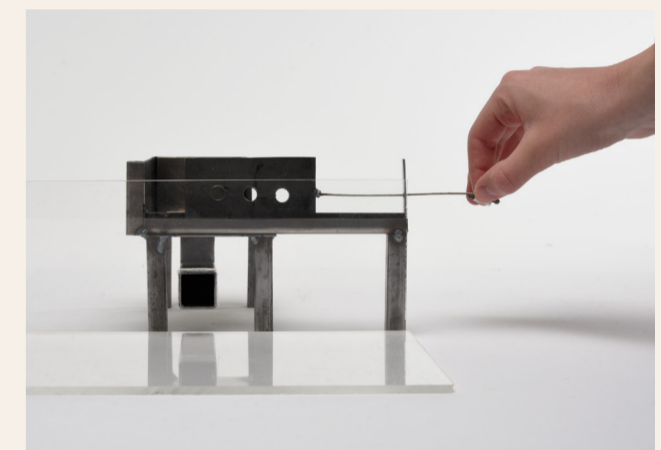
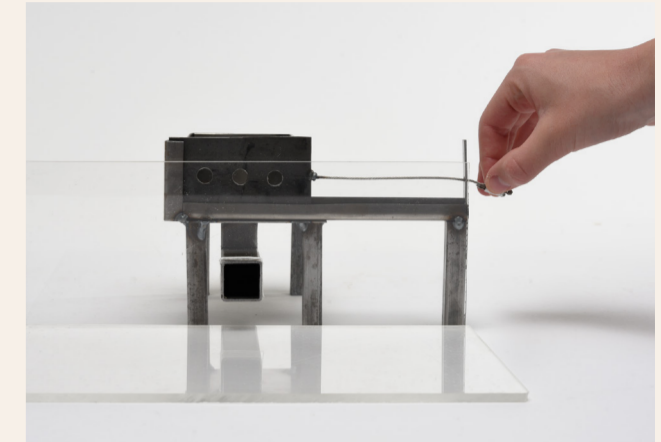


Collage of relationship between the patera and the existing silo

This page shows how the 1980's Patera Building System (the workshop) joins to the 1920's existing silo.

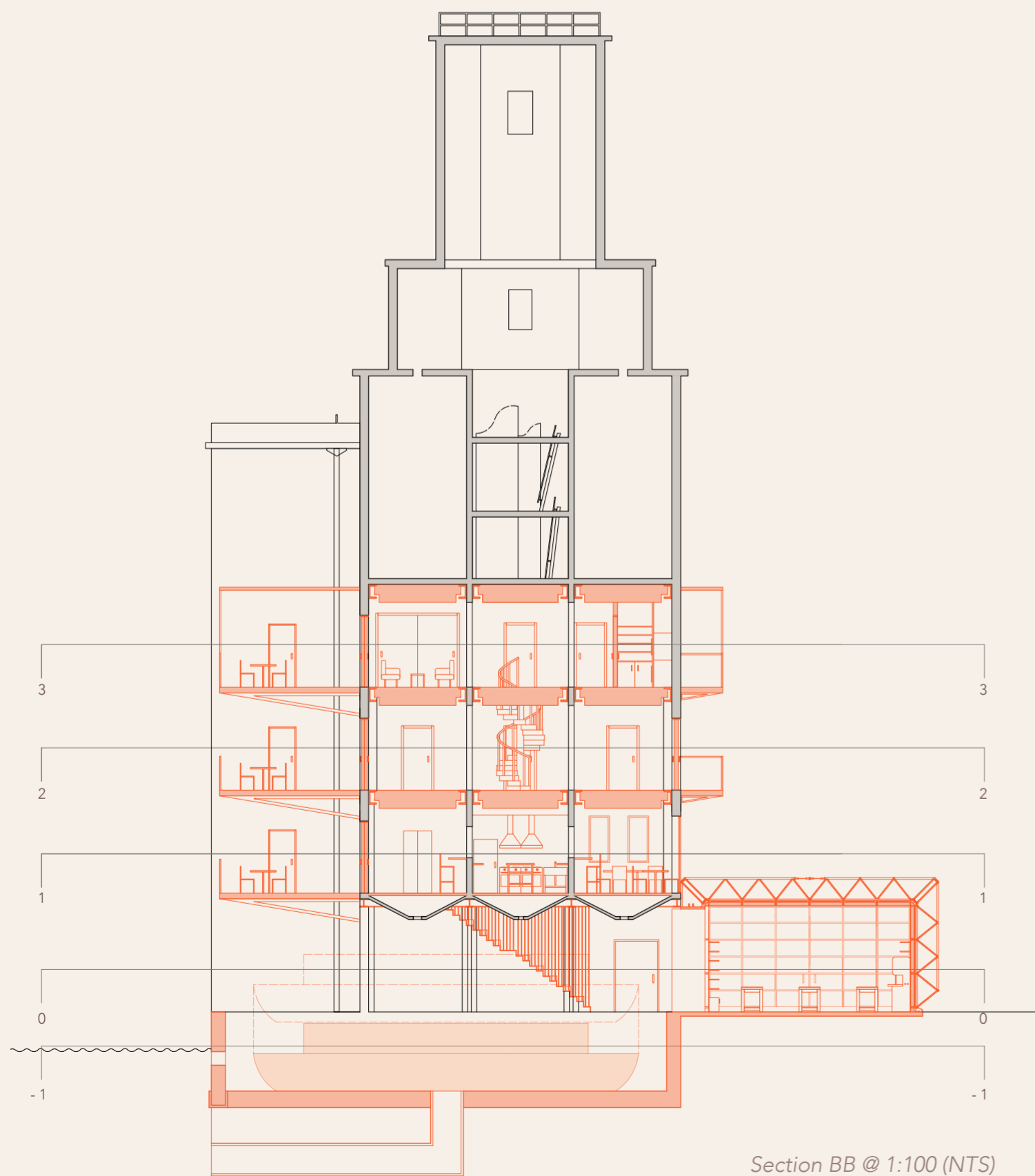
A detailed study of the timber viewing box where people entering the space are able to stand and watch the residents restore boat interiors in the Patera workshop. This threshold creates a sense of inclusion for the community, as well as allowing the residents to feel in complete ownership of their space (the workshop).

Below are images of a steel model I made of the drydock @ 1:100.

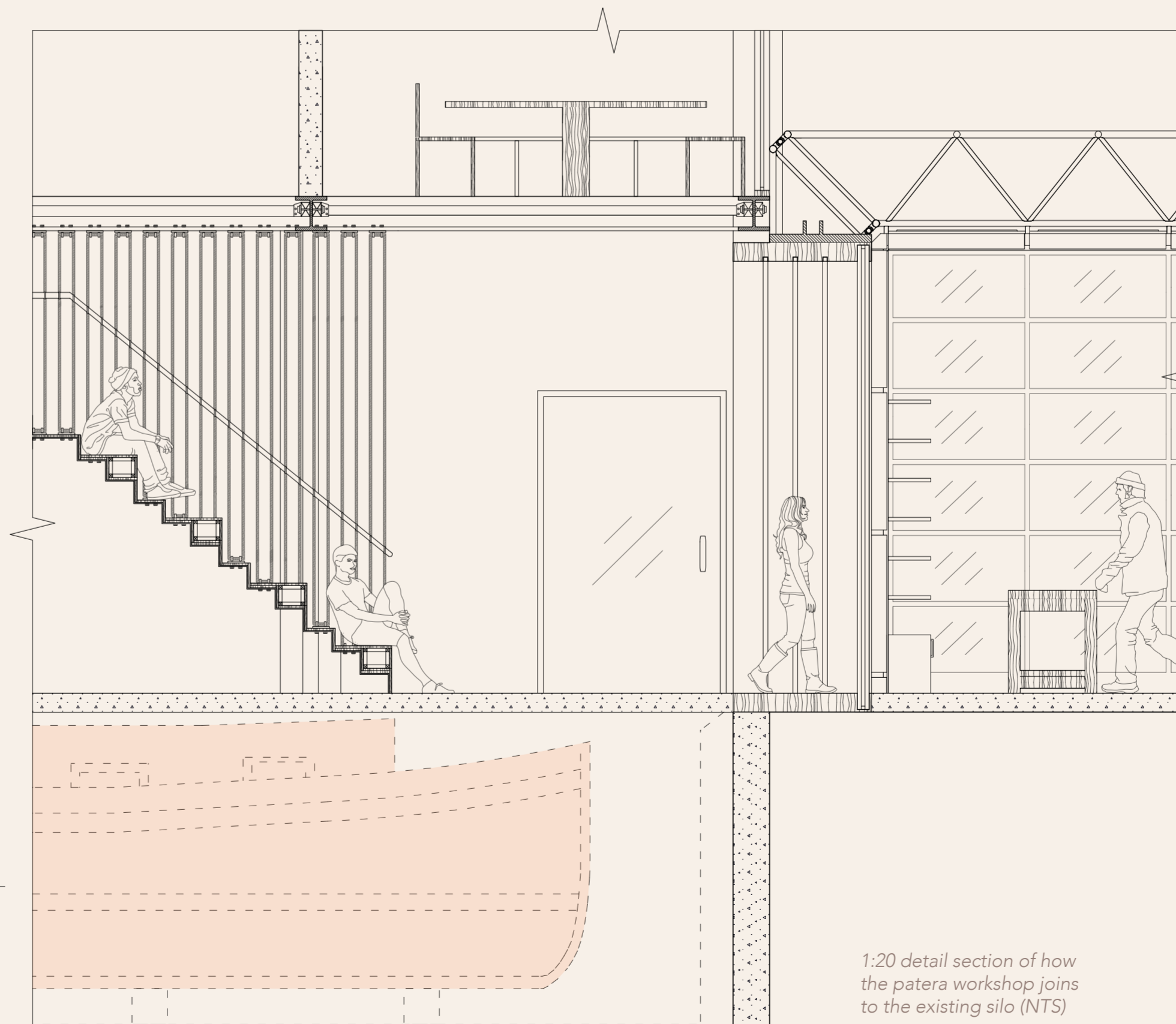


1:5 construction detail section of the stairs (NTS)

HOW THE WORKSHOP JOINS TO THE SILO

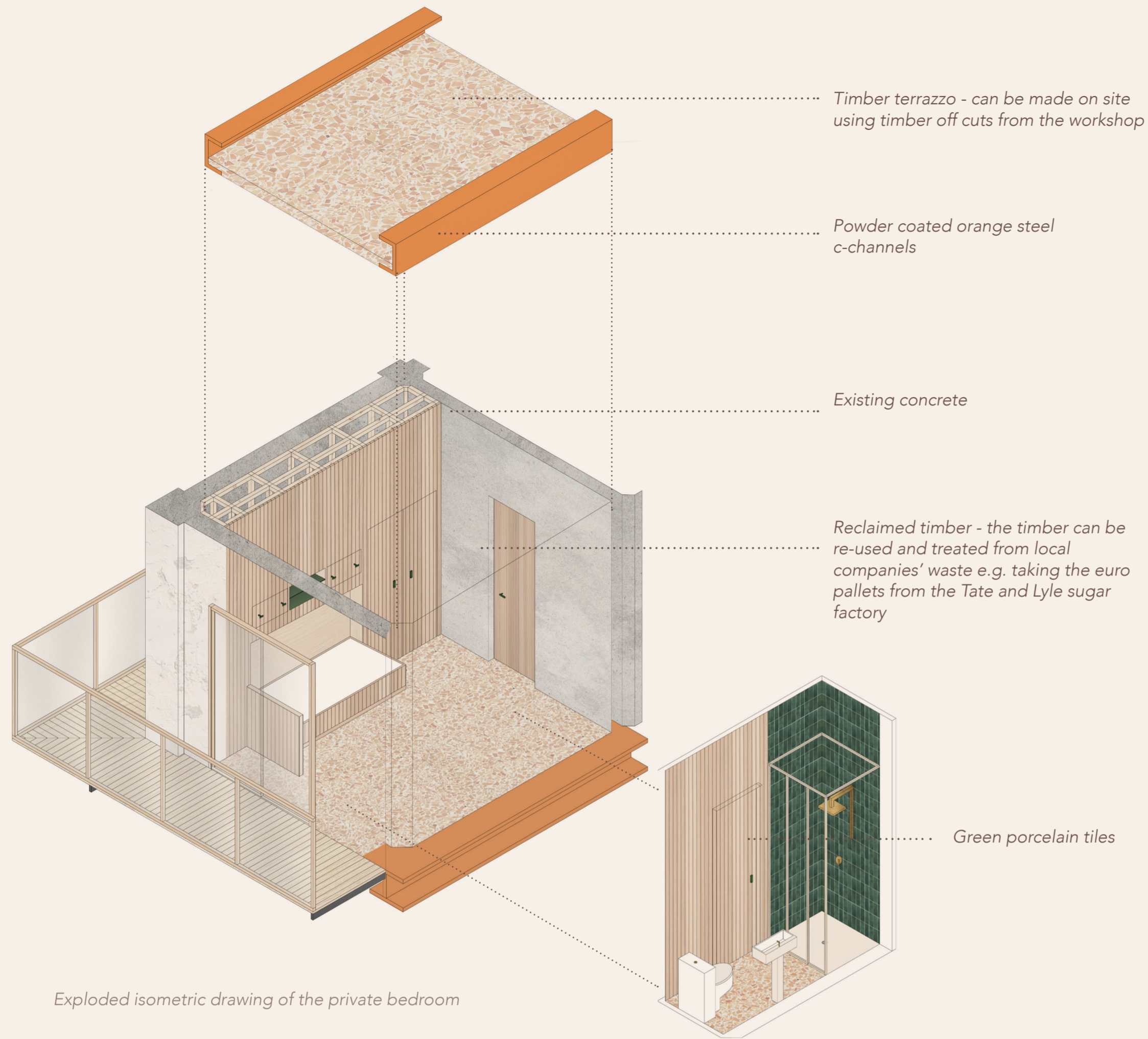


Section BB @ 1:100 (NTS)



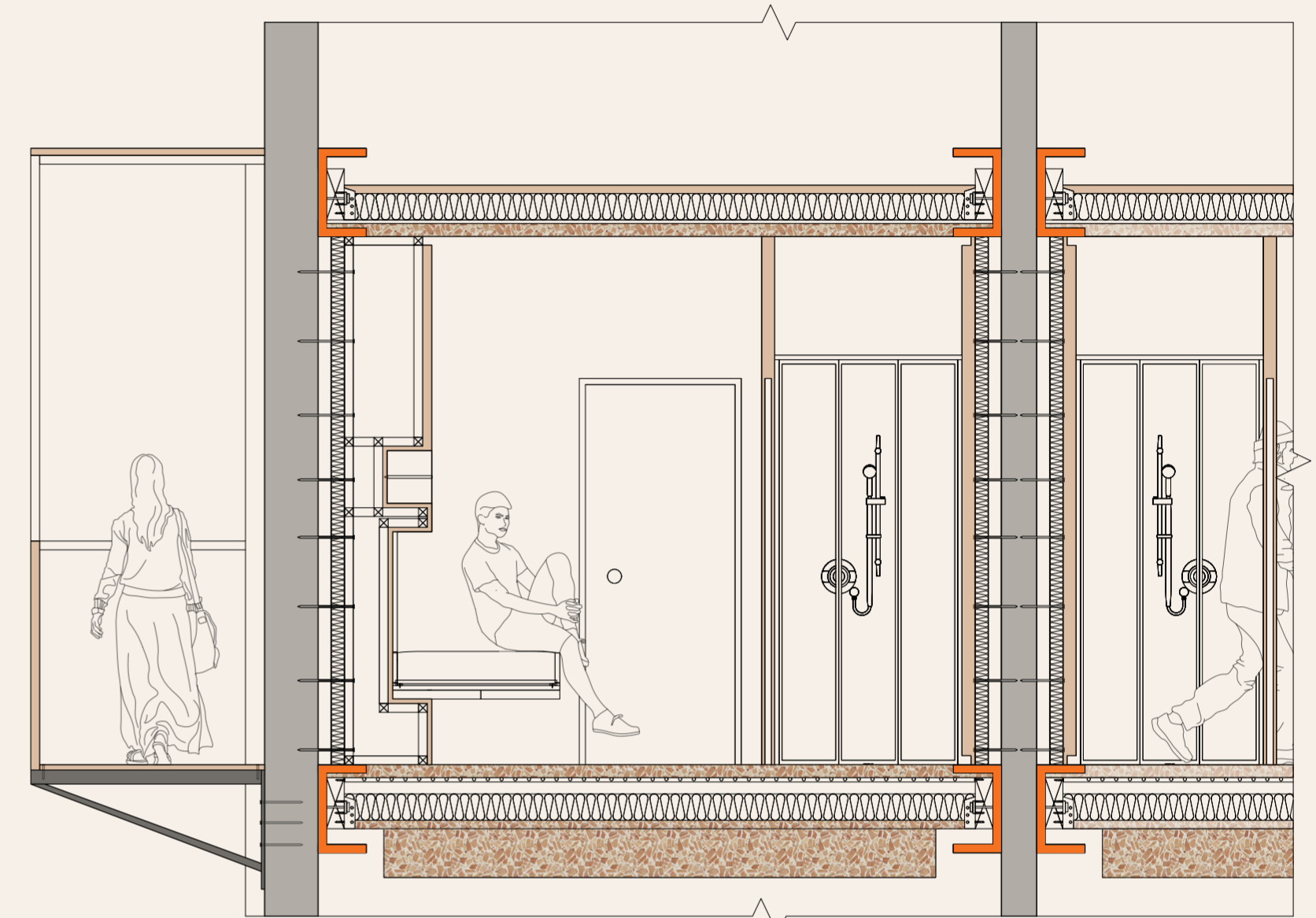
1:20 detail section of how the patera workshop joins to the existing silo (NTS)

SHELTER - PRIVATE BEDROOM

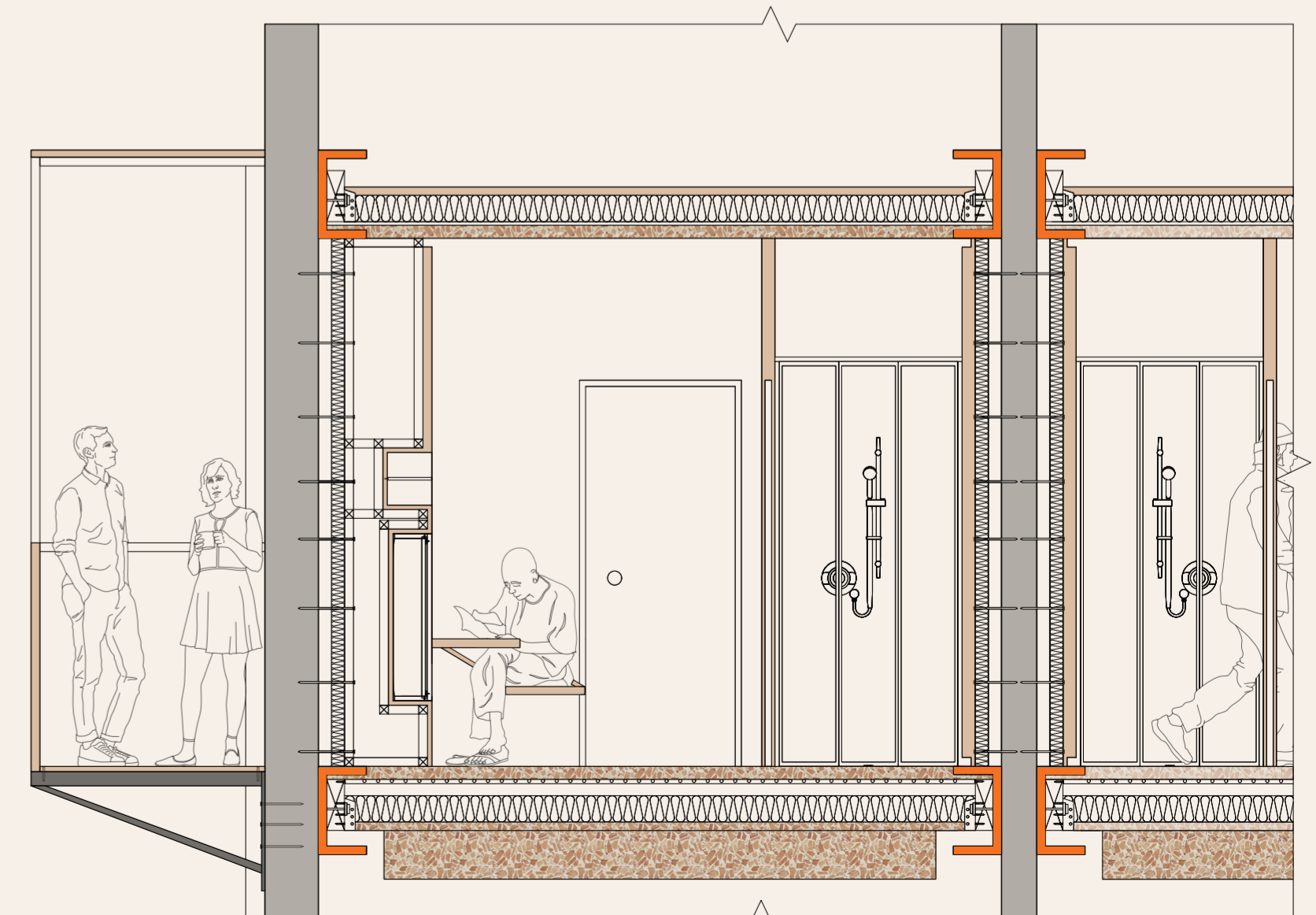


A detail study into the construction of the private bedrooms. I wanted to keep as much of the existing silo as possible in order to reduce carbon emissions. Therefore each single bedroom was designed to fit within the 3.3m x 3.3m silo chutes.

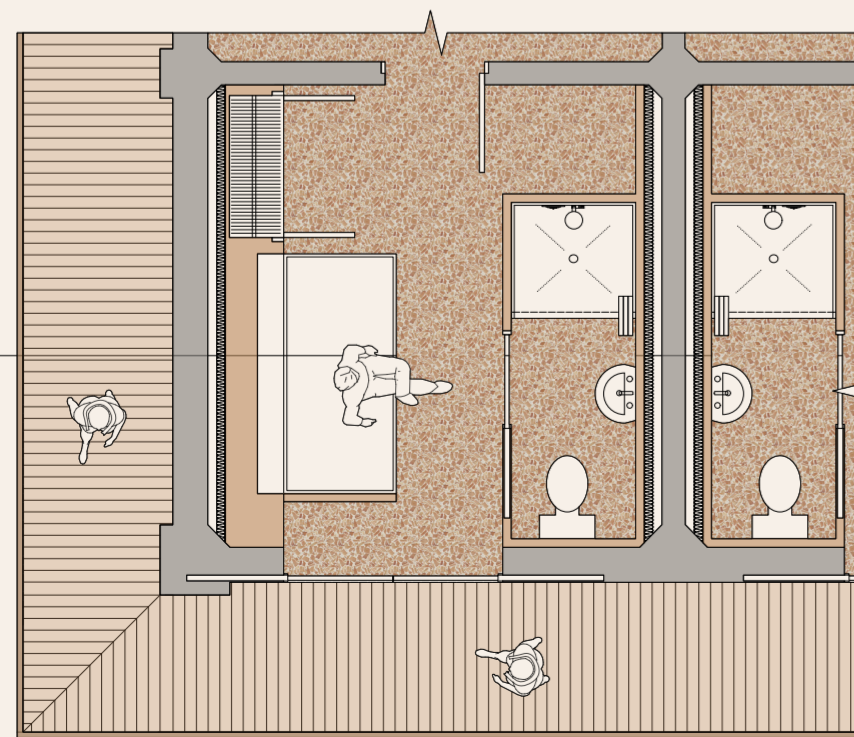
The bedrooms on both the second and third floor are framed with orange steel channels with a protruding box almost to give the illusion that the bedrooms are floating above. Due to the bedrooms not allowing for a lot of space I designed the bed so that it folds up into the wall and allows for a desk to pop out from underneath. So if the resident isn't ready to socialise on the second floor they are able to still work and have a space to relax.



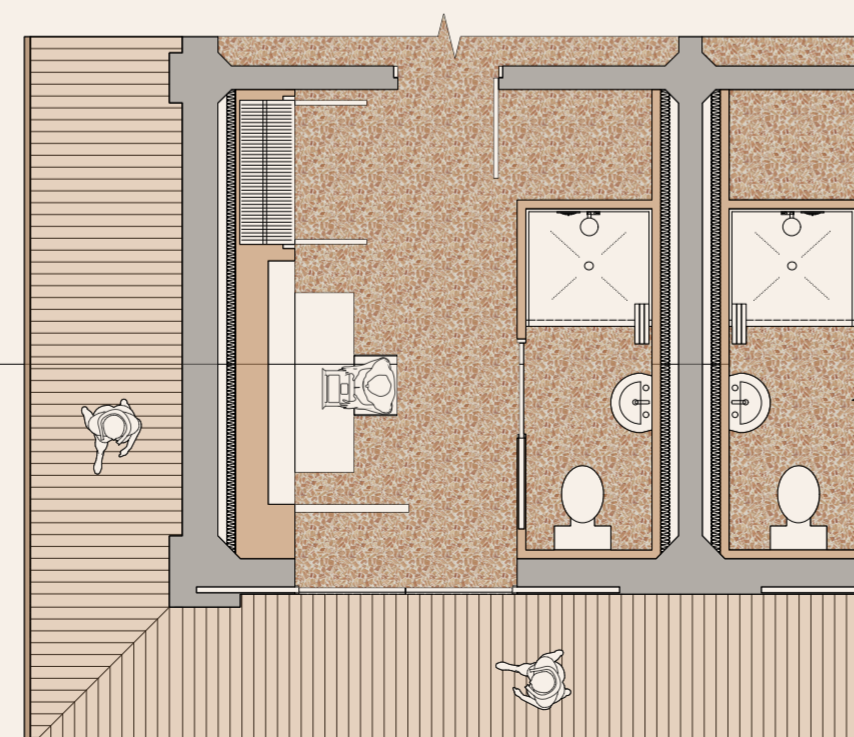
1:20 detail section of the private bedroom (bed open) (NTS)



1:20 detail section of the private bedroom (desk open) (NTS)



1:20 detail plan of the private bedroom (bed open) (NTS)



1:20 detail plan of the private bedroom (desk open) (NTS)