

THE BOTTLE TOP PROJECT

Tackling rural homelessness in Cornwall with an innovative solution for a disused and unloved site

RURAL HOMELESSNESS

And Cornwall

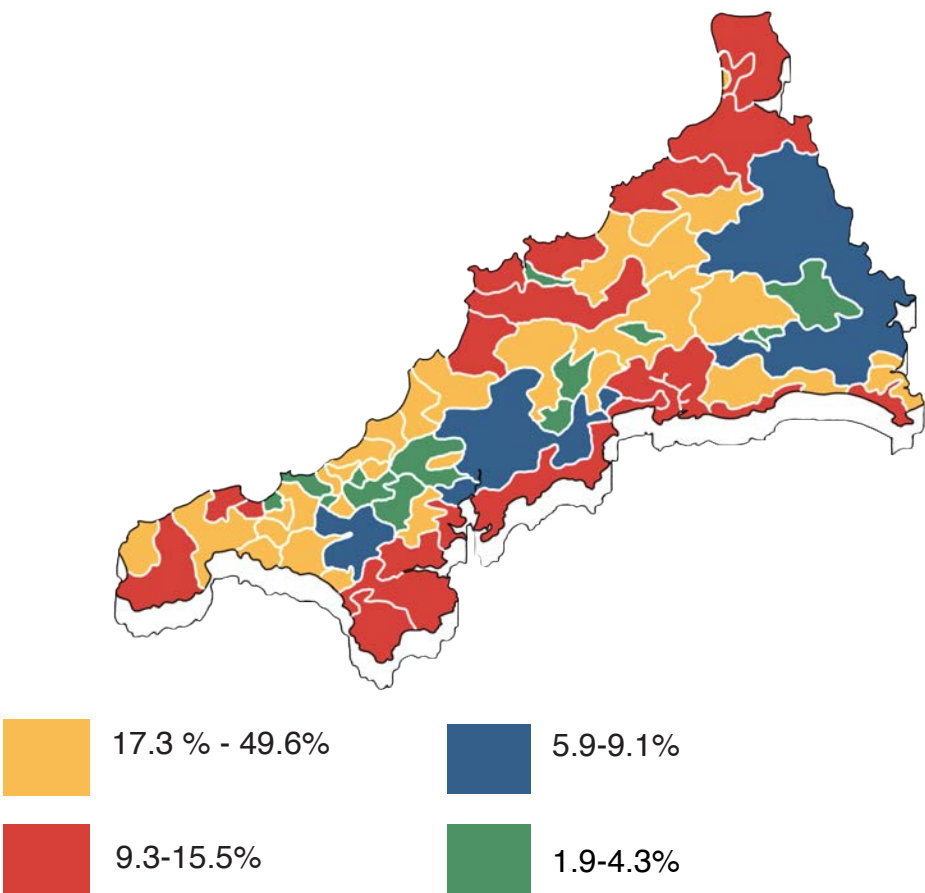
IN THE SUMMER OF 2021 CORNWALL HAD 10,290 AIRBNB LISTINGS YET RIGHTMOVE HAD ONLY 62 PROPERTIES AVAILABLE TO RENT ACROSS THE WHOLE COUNTY (Tapper and Bearne, 2021).

A stay-cation boom fueled by the COVID 19 pandemic has brought Cornwall to its knees. ‘**LOCALS HAVE BEEN LEFT HOMELESS**’ by soaring property prices and the stay-cation boom as landlords evict tenants to put Airbnb and capitalise on the tourist boom’ (Davies, et al., 2021).

‘The housing situation in Cornwall is the worst I’ve ever seen [...] we are seeing ‘**FAMILIES FACING ABSOLUTE DISASTER**....So many people are living in **TENTS** or **VANS**-there is nowhere for them to go’ (Davies, et al., 2021).

‘**THERE ARE HUGE DISPARITIES BETWEEN THE SOLD TOURIST IMAGES GENERATED OF CORNWALL AND THE LIVED EXPERIENCE OF ITS PEOPLE**’ (Hale, 2019:118).

EMPTY HOMES STATISTICS



<https://www.instagram.com/p/Ca-Ky53LMNk/>



Can socially activated design use abandoned building stock to support the rurally homeless in Cornwall?

BOTTLE TOP PROJECT ENTRANCE VISUAL - View from car park with courtyard beyond



<https://www.instagram.com/p/CVtVku5lcWw/>



‘THE NUMBER OF HOUSEHOLDS CATEGORISED AS HOMELESS IN RURAL LOCAL AUTHORITIES ROSE TO 19,975 – AN INCREASE OF 115% FROM 2017/18’ (CPRE, 2021).

<https://www.instagram.com/p/CVtR5X2IGOL/>

THE BRIEF

The Bottle Top Project

The Bottle Top Project populates an abandoned industrial site which once produced bottle tops for many different companies included Chanel. It was once an employer of the community but has been in disuse since 2006 and has since been left to decay.

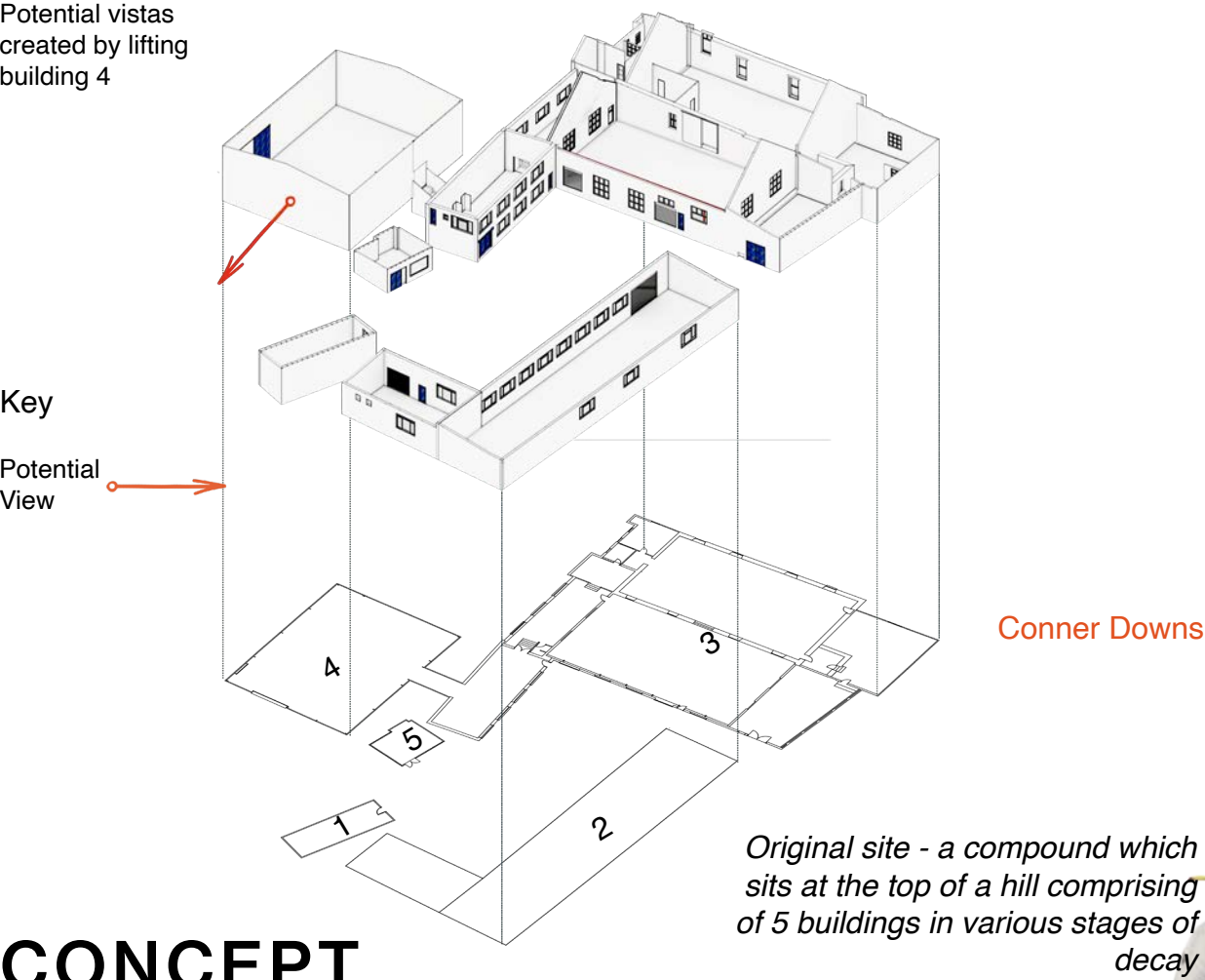
The Bottle Top Project will transform the site to provide a **HOUSING CRISIS HUB** that support families who have experienced **ENFORCED HOMELESSNESS** to help alleviate the **STRESS** and **TRAUMA** from losing security of living.

Thoughtful spaces have been created to mitigate the **DEHUMANISING** stress that homelessness can cause when trying to attempt daily activities when you have a **FAMILY**.

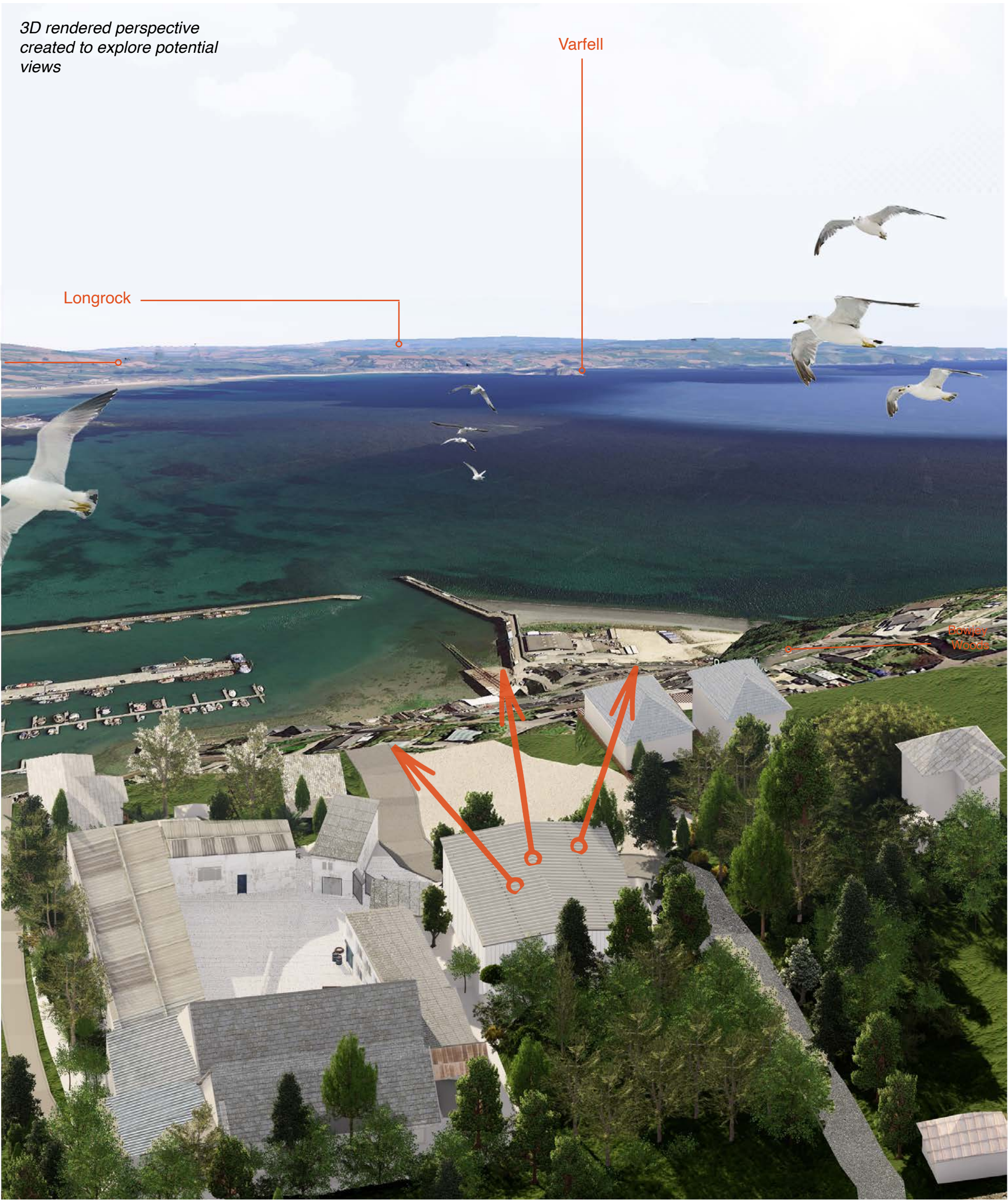
The core spaces use Maslow's hierarchy of needs- what all humans need to survive (**FOOD, SHELTER, OXYGEN**), supporting spaces then evolve from the hierarchy to create nurturing spaces to provide support from crisis to stability.

AXONOMETRIC SITE DIAGRAM

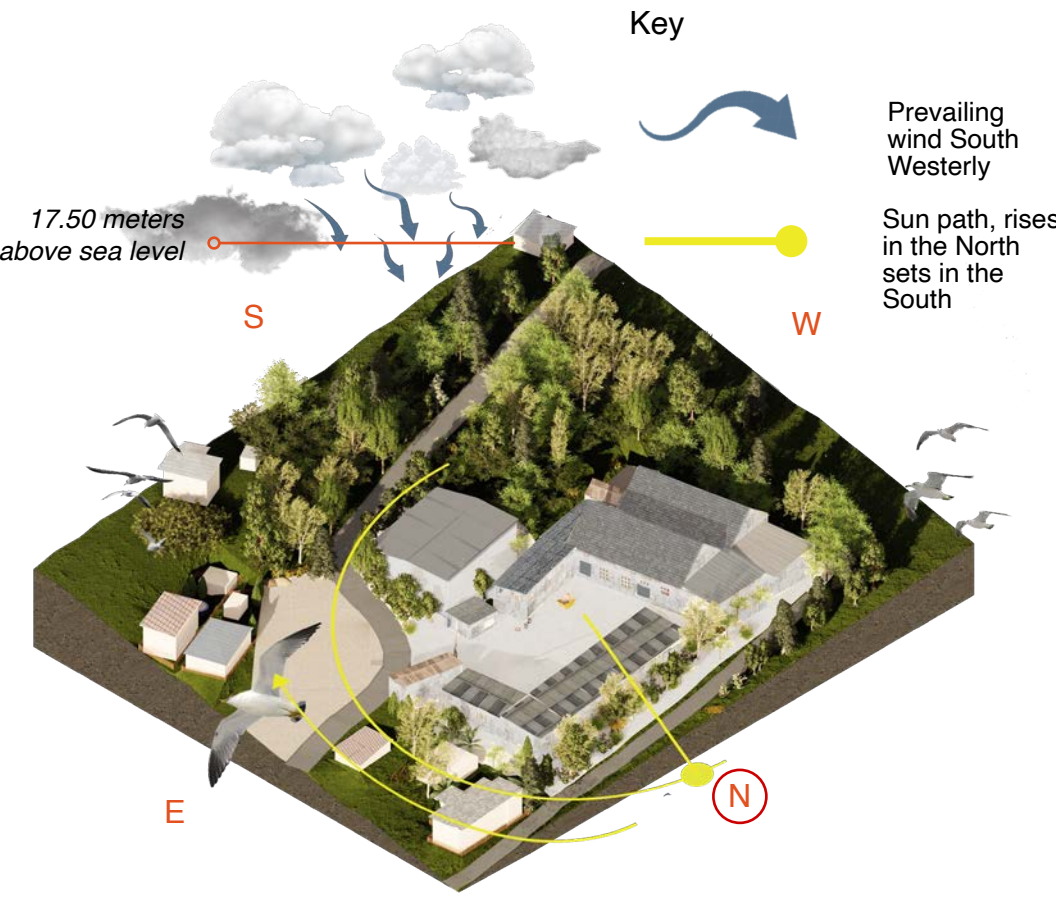
Potential vistas created by lifting building 4



3D rendered perspective created to explore potential views



SITE ANALYSIS



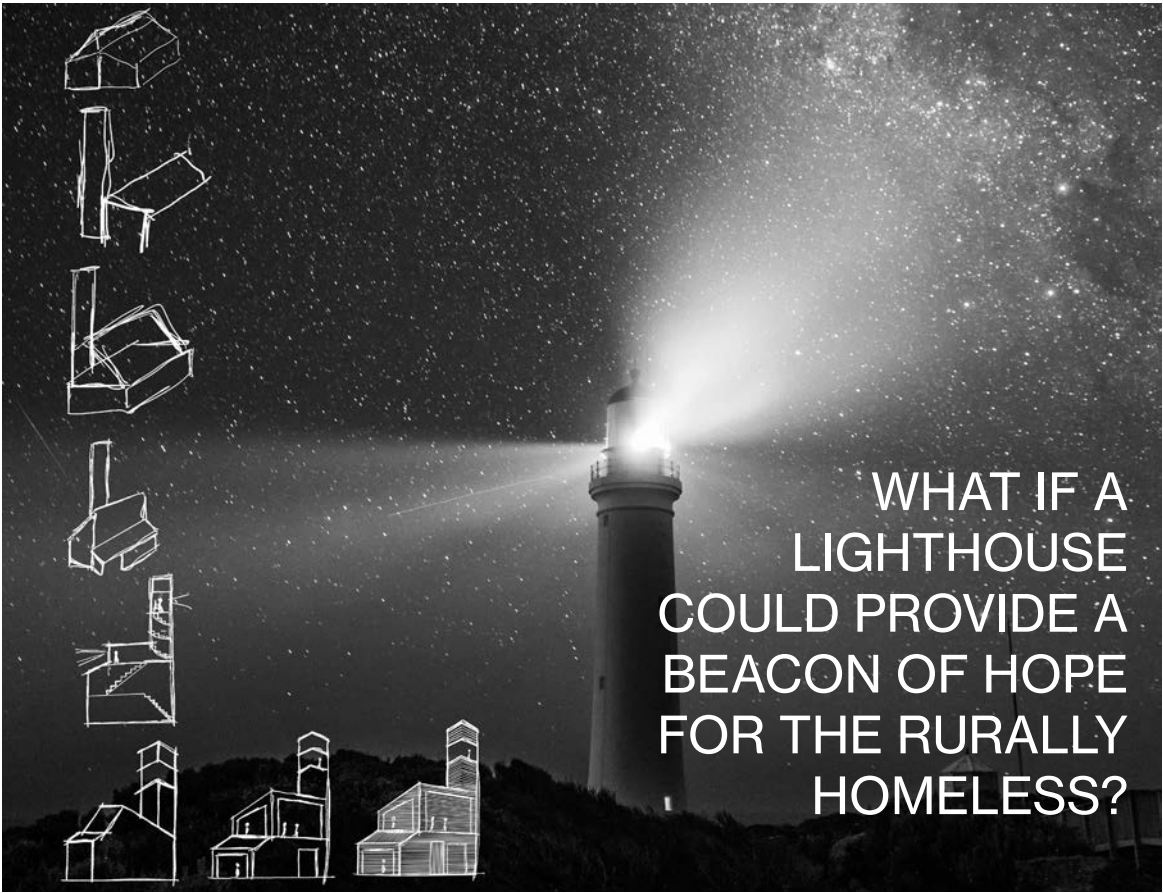
NEWLYN has **MULTIPLE INDICES OF DEPRIVATION** and ranks between 1 and 6569 **MOST DEPRIVED 20%** in England for living environment, income, employment, education, skills, training and **BARRIERS TO HOUSING AND SERVICES** (Cornwall council, maps, 2019).

CONCEPT

'SEA VIEWS THAT AREN'T JUST FOR MILLIONAIRES'

Lifting building 4 and creating a lighthouse tower will provide my user with incredible sea views of Newlyn Harbour and Mounts Bay beyond to enjoy.

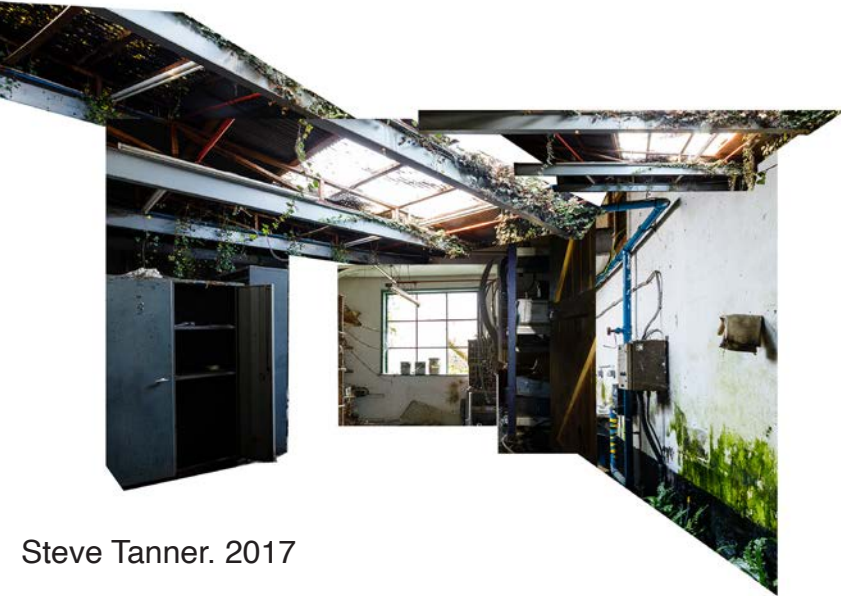
A space for quiet contemplation or for social interaction, the tower will lift spirits and users will have a piece of Cornwall back.



unsplash.com/@nathjennings

SITE AUDIT

Pre demolition audit and intentions for re-purposing and recycling



Steve Tanner. 2017

To be retained/up-cycled

1. Metal locker
2. Sash window
3. Red piping



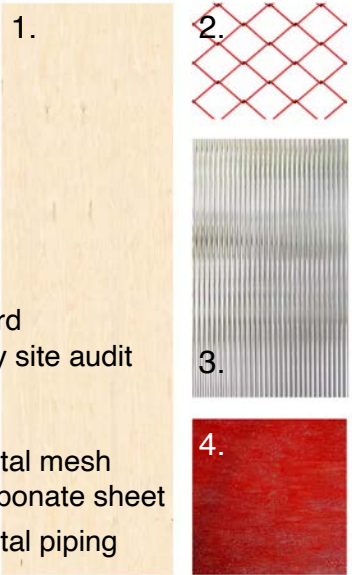
To be retained/up-cycled

1. Yellow steel frame
2. Wooden shelving
3. Tongue and groove panels



Mood board inspired by site audit

1. Plywood
2. Red metal mesh
3. Polycarbonate sheet
4. Red metal piping



To be retained/up-cycled

1. Red piping
2. Polycarbonate sheet
3. Wooden beams

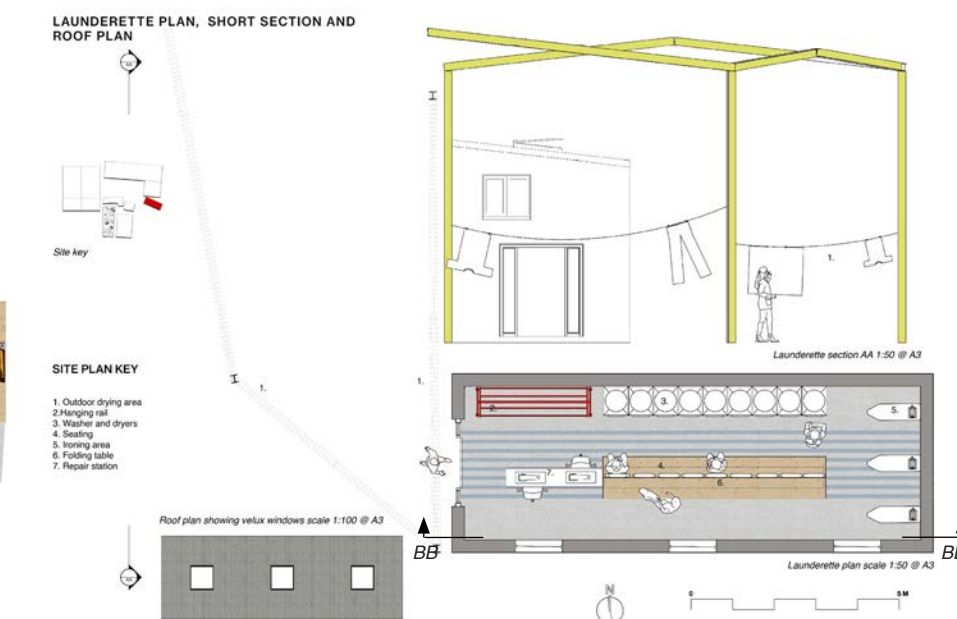


FACILITIES

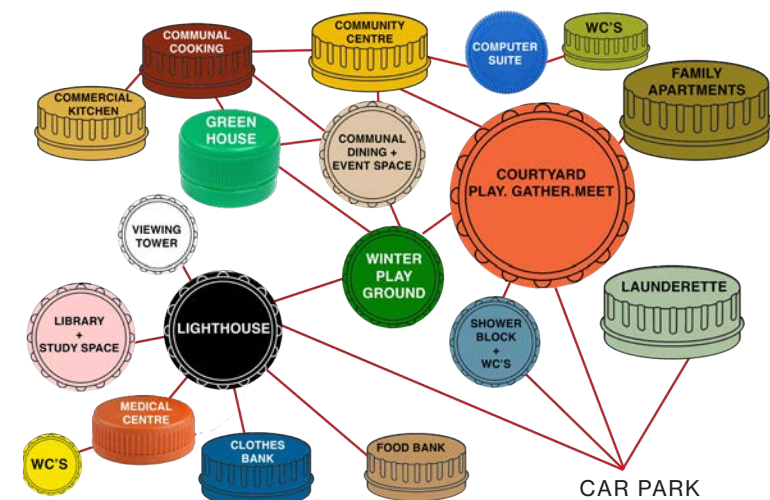
USER PROFILES



LAUNDERETTE

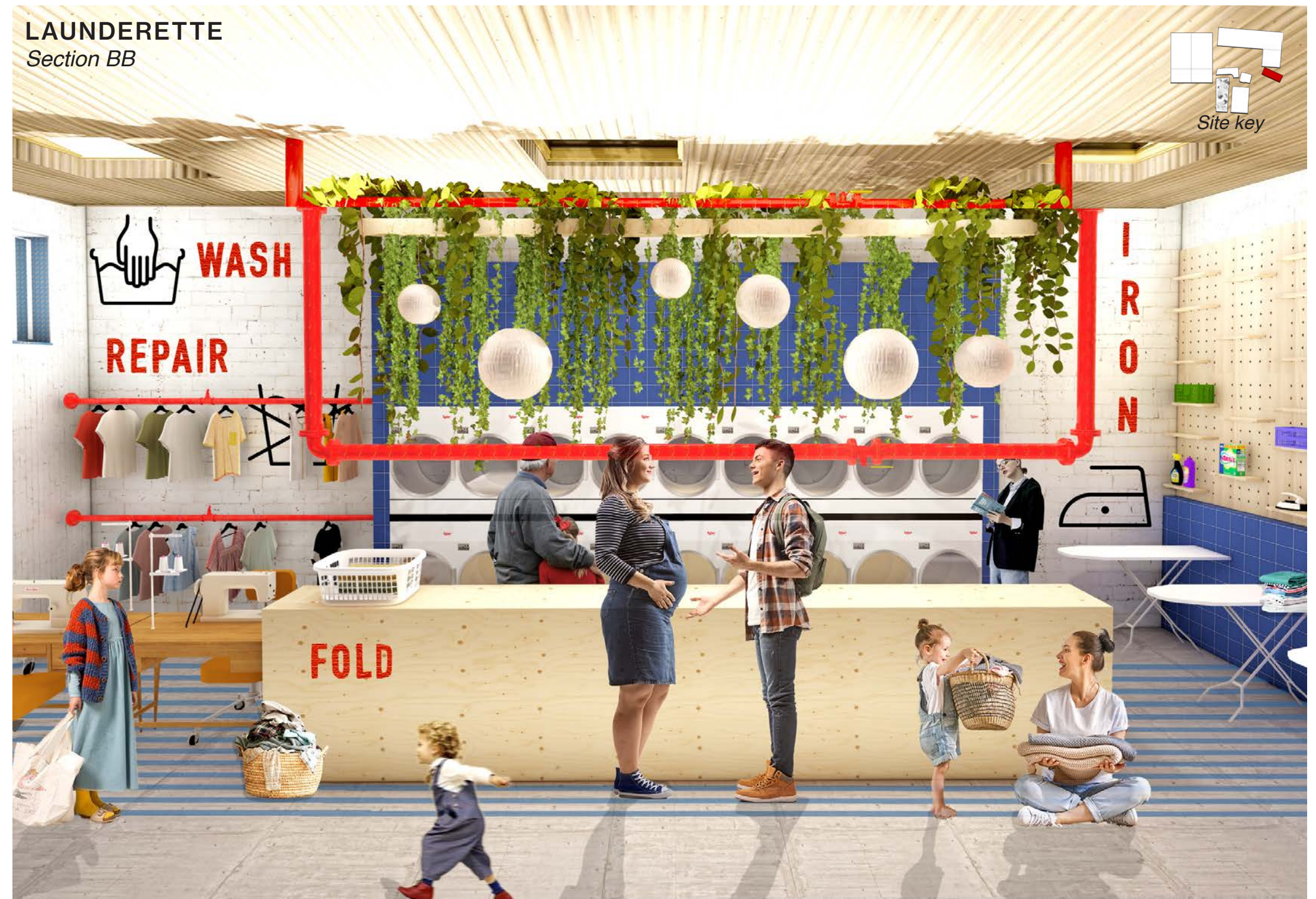


PROGRAM DIAGRAM



LAUNDERETTE

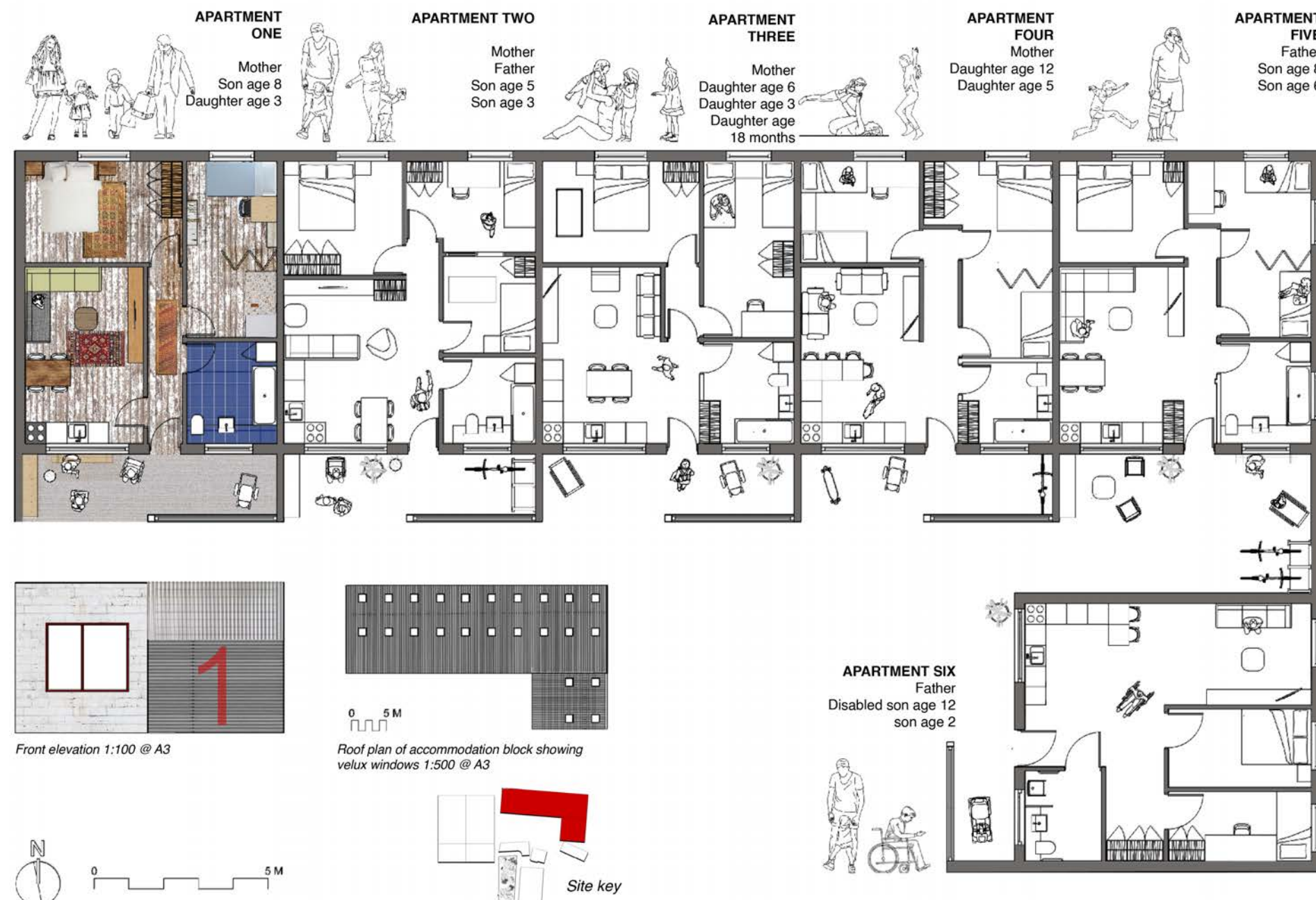
Section BB



Morwenna arrives at the Bottle Top Factory Project and puts a load of washing on- note red piping upcycled into a light fixture

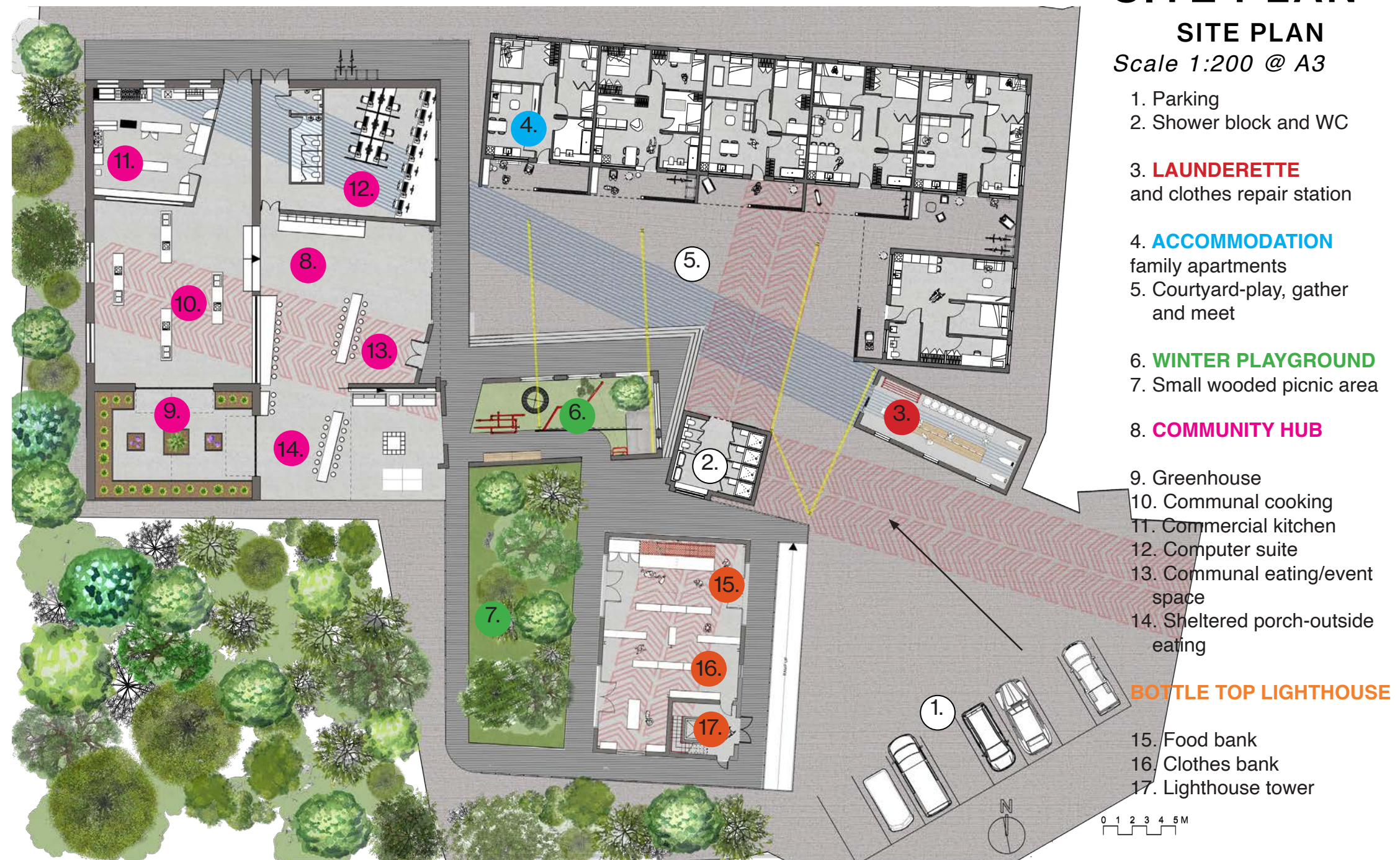
FAMILY ACCOMMODATION-SHELTER for different family units

ACCOMMODATION
Scale 1:100 @ A3



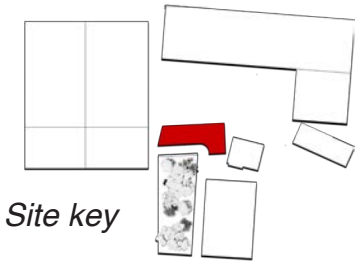
SITE PLAN

SITE PLAN
Scale 1:200 @ A3



WINTER PLAYGROUND

USER



USER JOURNEY
Caden age: 8 years old

Current living arrangement:
Yorvic B&B's. Caden has for 8 years lived in the same house-this all changed suddenly a month ago when the landlord decided to sell. Since then, he has been living with his mum, dad, brother and sister in B&B's all over Cornwall and has missed lots of school.

Needs:
Secure housing that keeps his family together and enables him to continue attending the primary school he previously went to.

Doesn't like:
Mummy crying all the time, missing school, moving to a different B&B every week and the thought of having to move up country for a house.

Likes:
Bottle Top Lighthouse because there is LOADS of outdoor space and other children that he can play with. Super fast Internet and computers so he can keep up with schoolwork AND play Mine-craft.

Get older & live 17 miles and move up with mum & dad to miss school

Arrives with his family and immediately checks out the winter playground

Change day to live with mum & dad

MATERIALITY

CLIMBING FRAME DETAIL
Winter garden playground

Red piping salvaged from site and fabricated into a climbing frame for the winter garden playground. Fixed into the ground with a strip foundation made of concrete 250mm deep and 1m wide. Spikes attached to bottom of pipes and cast in concrete to give stability. 20mm or earth and grass on top of concrete strip for a soft landing.

Plan view Scale 1:25 @ A3

g section Scale 1:25 @ A3

Strip concrete foundation poured into soil holding 200mm length of pipe

Short section Scale 1:25 @ A3

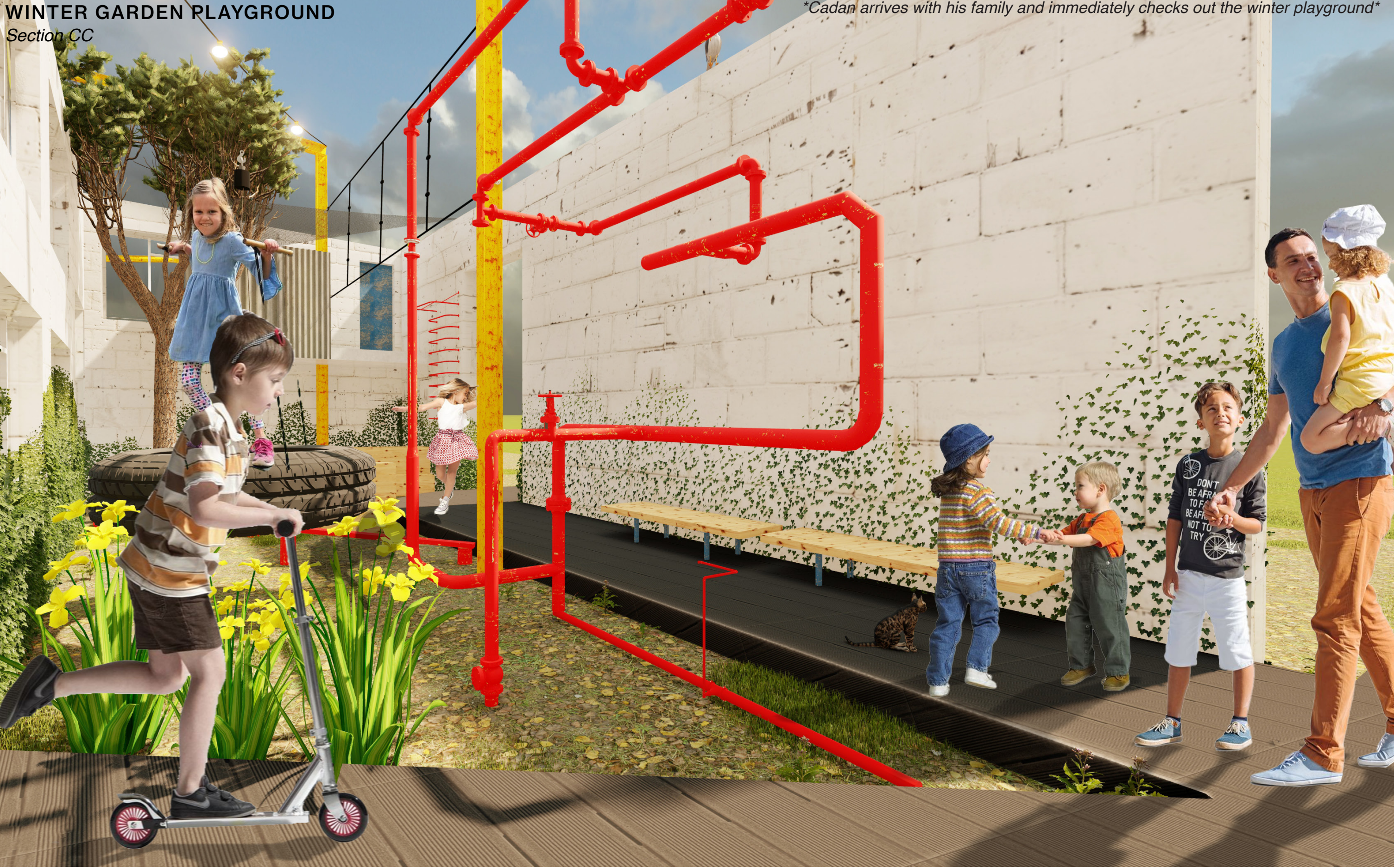
PLAN

WINTER GARDEN PLAYGROUND PLAN
Scale 1:50 @ A3

Site key

WINTER GARDEN PLAYGROUND

Section CC



COURTYARD



View from accommodation out into courtyard, WC + shower block directly ahead with lighthouse beyond. Winter playground to the right with community hub attached



PORCH



View from porch of community Centre with Lighthouse beyond and winter playground to the left-after a few hours in the greenhouse Matt cooks up some food

