

# PAULINA KALFERSZT



## INHABITANTS

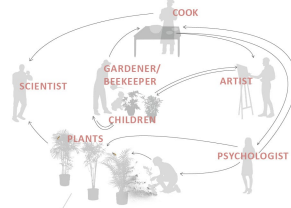


## DESCRIPTION:

This project is focused on an idea for **home** as a series of **communal spaces** that users can share and this way create bonds that would benefit one another. Idea for the home that I designed has its roots in nature and the **ecosystem** that can be seen among plants, animals and humans. In my space everyone possesses a unique skill: cook-prepares meals mainly from ingredients grown on the site, gardener, scientist-produces skincare products and vitamins from herbs and other plants, psychologist-plant therapy is her main method of improving client's wellness and artist-takes inspiration from the plants on the site. This way the person can contribute to the existing ecosystem and be valuable to other inhabitants as well as gain benefits from other people's skills.

Considering the process of **adaptive re-use** I designed a safe space with a great amount of cultivated on the site plants that highly benefit the residents. Creating open plan spaces as well as inviting the public in, enables to blur boundaries between private and public, encourages social interactions as well as fights loneliness.

In my project I consider the benefits of **natural light** in our environment, the **greenery** and the **rainwater harvest** that would be shown in detail in the following pages.

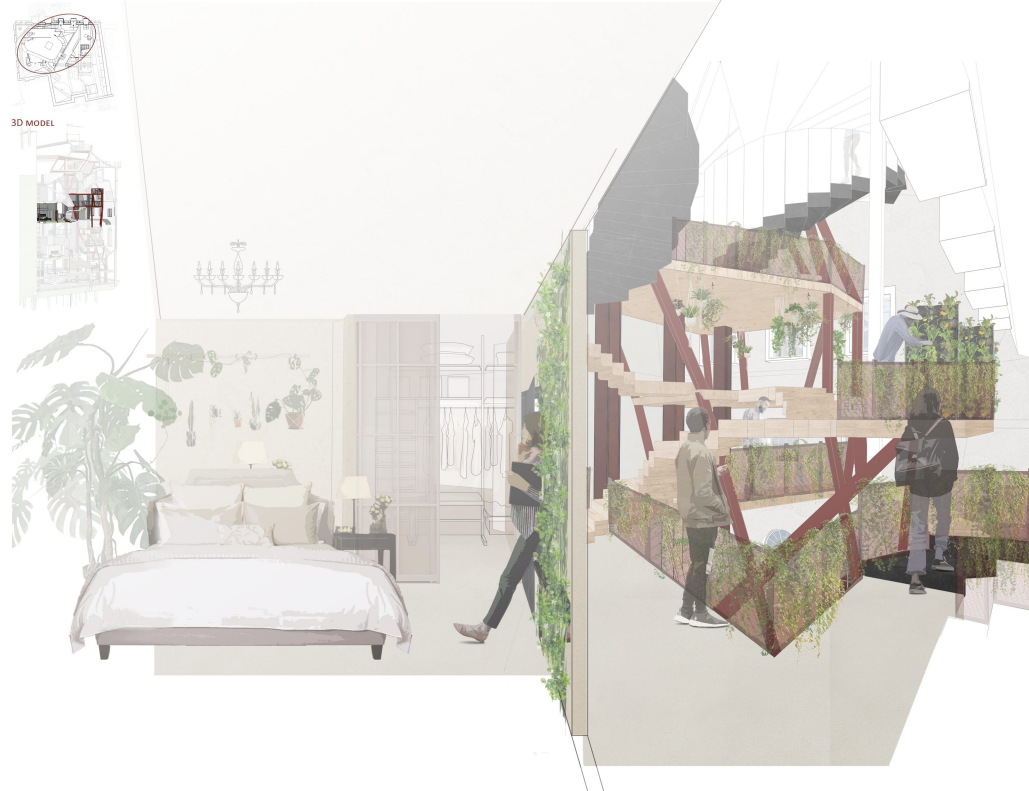


## VISUAL - LIVING SPACE VS THE PLATFORM

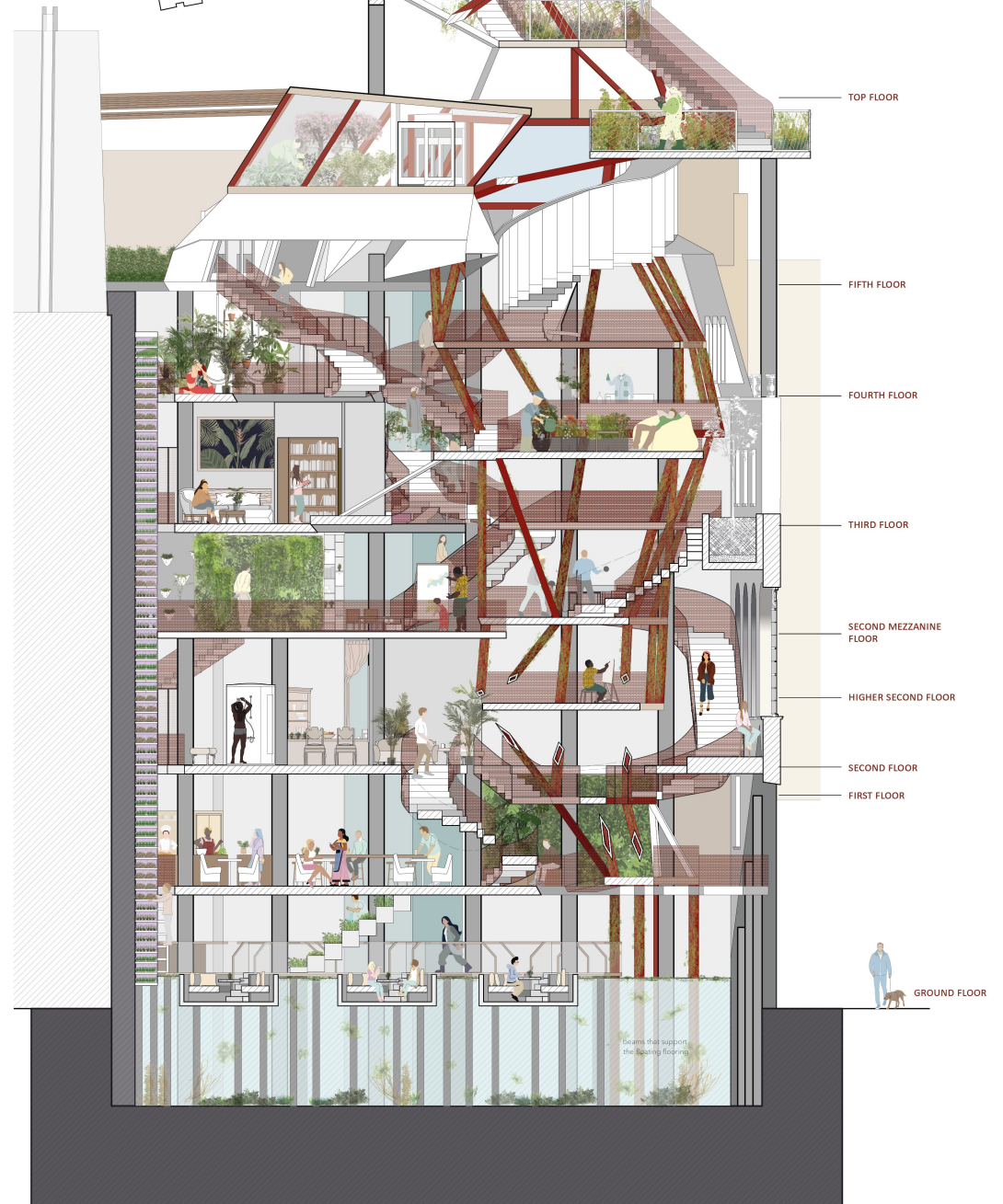
THIRD FLOOR PLAN



3D MODEL



MAIN SECTION

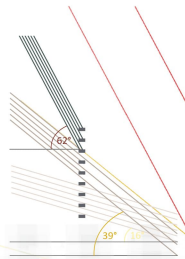


# SUN

## DESCRIPTION:

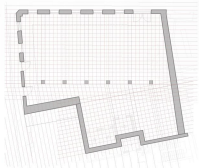
The main idea for the project was to allow the building to collect more natural light and to allow the sun rays to reach the lowest levels of the site. The adjacent key plan shows that the site borders on with a tall building on the south-east and south-west. This position significantly blocks the sun rays that are the strongest on the south. Therefore I decided to create voids on each floor that are dictated by the angle that the sun ray reaches the site during the summer solstice. This angle is also used to create a new insertion - platform (see the visual on the right). It is used for the main circulation as well as being a space where the greenery grows and where other activities are performed like art studio or skincare lab.

## KEY PLAN:

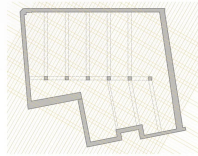


- solstice sun rays - December 21st
- equinox sun rays - March 20th & September 23rd
- solstice sun rays - June 21st

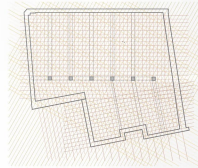
CREATING GRIDS THAT ALLOW TO PRODUCE A LAYOUT, WHERE THE SPACE USES THE NATURAL LIGHT IN THE MOST EFFICIENT WAY:



+



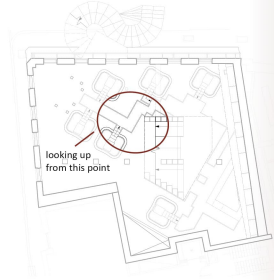
=



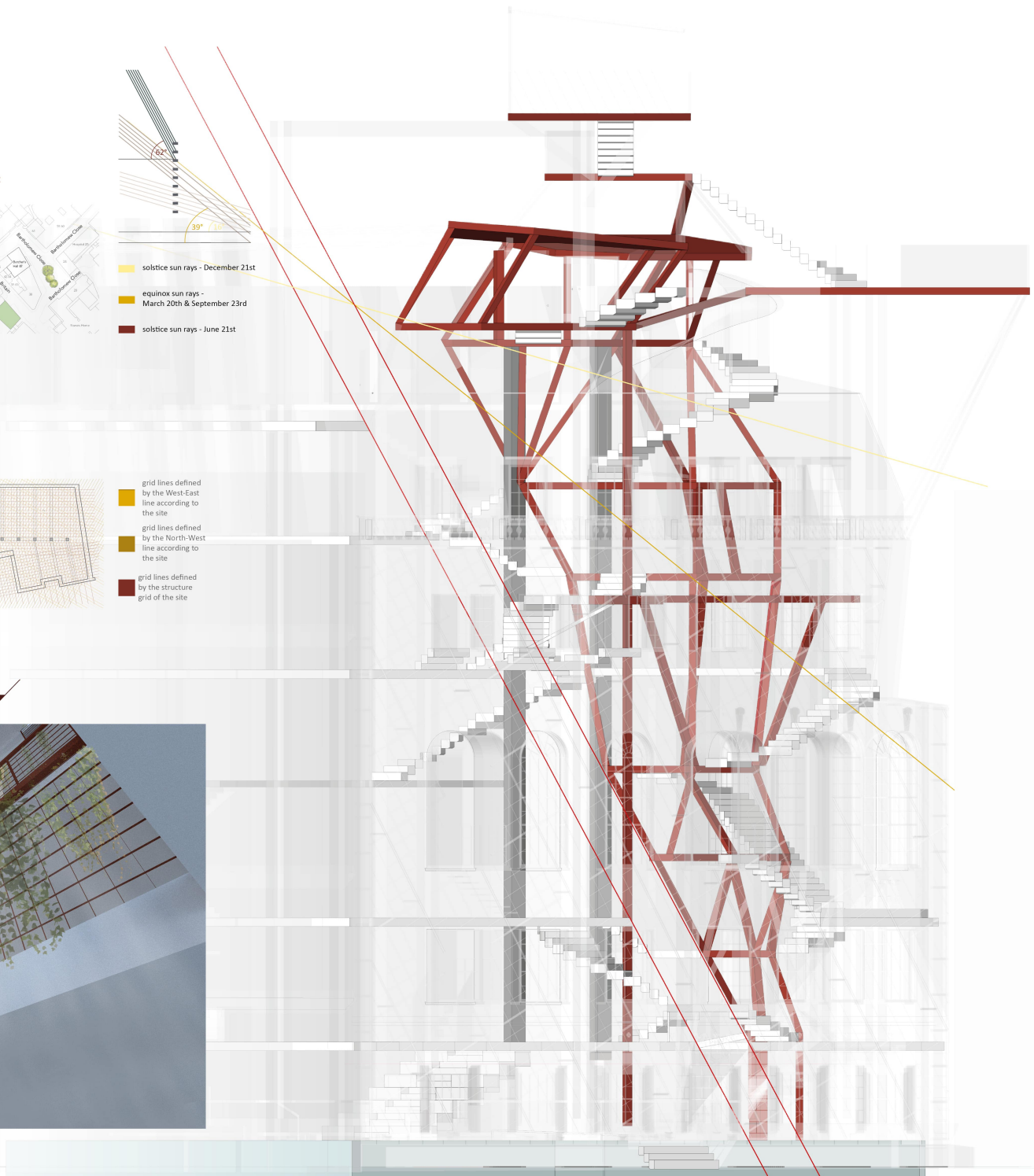
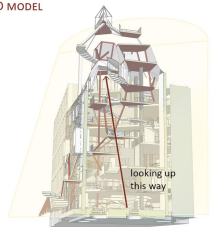
- grid lines defined by the West-East line according to the site
- grid lines defined by the North-West line according to the site
- grid lines defined by the structure grid of the site

## VISUAL - THE SUN RAYS REACHING LOWEST LEVELS OF THE SITE

### GROUND FLOOR PLAN



### 3D MODEL





# GREENERY

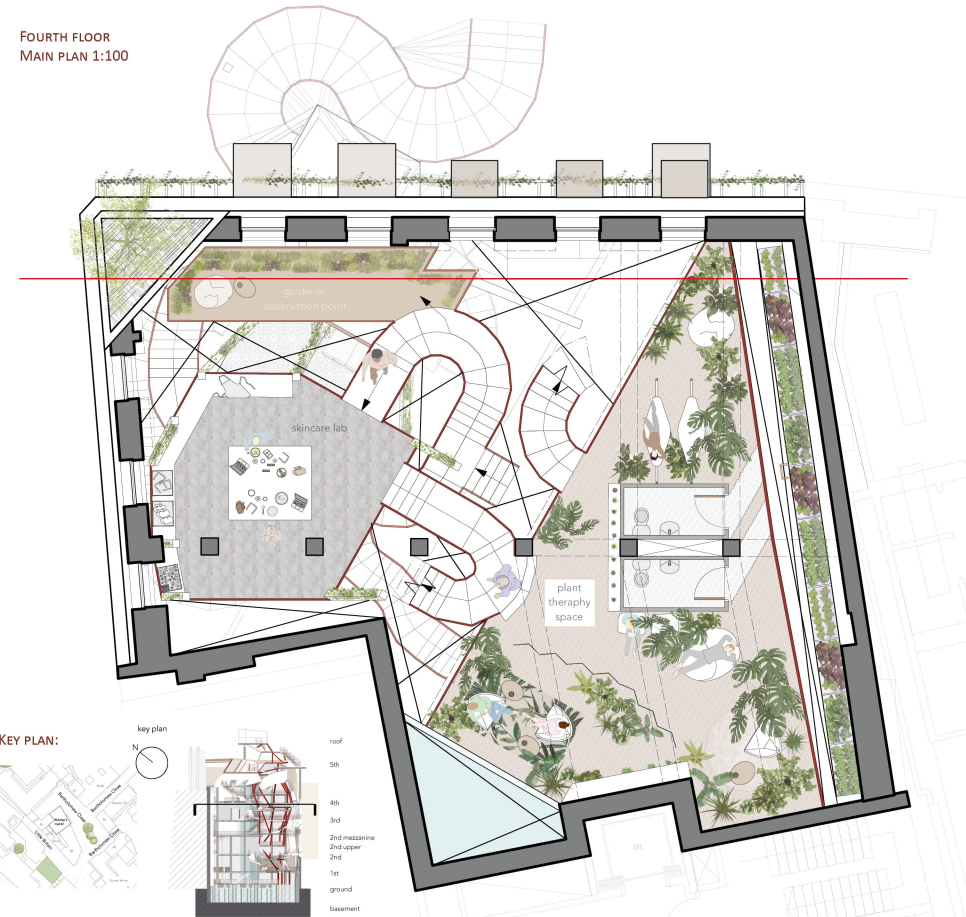
## DESCRIPTION:

For the purpose of this project, it was important to include a great variety of greenery on the site. I planned the uses from **potted plants, instreted within the building trees to green facade and rooftop greenhouses and gradens.** The extensive use of greenery improves the wellness of the inhabitants. Eating food that grows on the site makes it for a **healthier lifestyle.** Since vegetables and fruit are available for the residents thanks to the **vertical hydroponics farming,** they can gain benefits from them all year long.

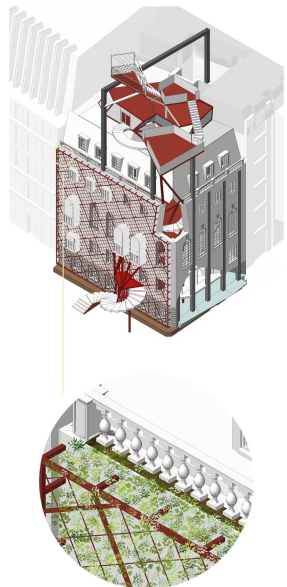
## SYMBIOSIS PLANTS WITH INHABITANTS - GRAPHICAL STORYBOARD



## FOURTH FLOOR MAIN PLAN 1:100

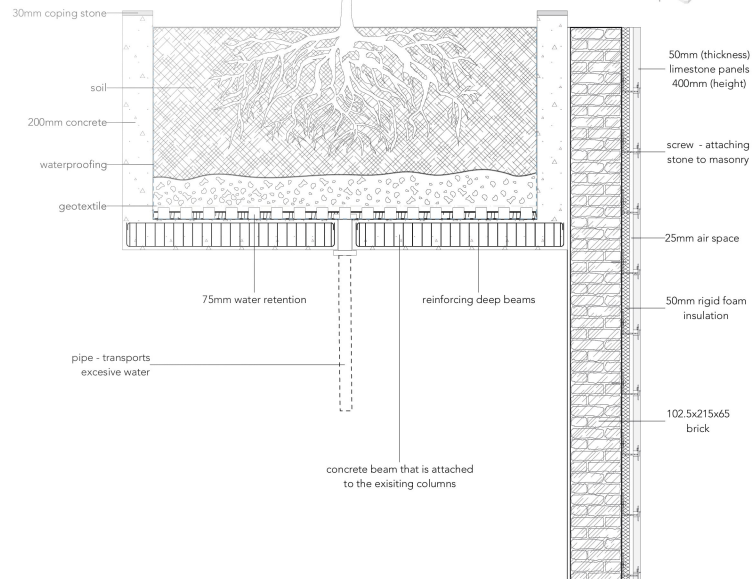


## GREEN FACADE - THE 'LUNGS' OF THE SITE



## INSERTED TREE DETAIL - SCALE 1:25

A detail of an inserted medium size tree to the corner of the elevations with information about the needed layers in order to make it possible for the tree to grow.







POLISH OPEN GARDEN



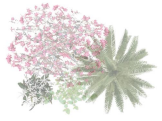
JAPANESE OPEN GARDEN



ENGLISH OPEN GARDEN



COLOMBIAN GARDEN - GREENHOUSE



GHANIAN GARDEN - GREENHOUSE

**DESCRIPTION:**

I decided to create a series of gardens that have the characteristics of the inhabitants' home country. This way, whenever they want, they can go to the garden and feel like home. There are three open gardens: Polish, English and Japanese and two closed-off ones (like greenhouses): Colombian and Ghanian. The plan presents those gardens as well as a communal table that is 'sheltered' by overhanging ivy, where the inhabitants can gather all together.



TOP FLOOR PLAN

TOP FLOOR  
MAIN PLAN 1:100



KEY PLAN:



key plan



- roof
- 5th
- 4th
- 3rd
- 2nd mezzanine
- 2nd upper
- 2nd
- 1st
- ground
- basement





# RAIN WATER

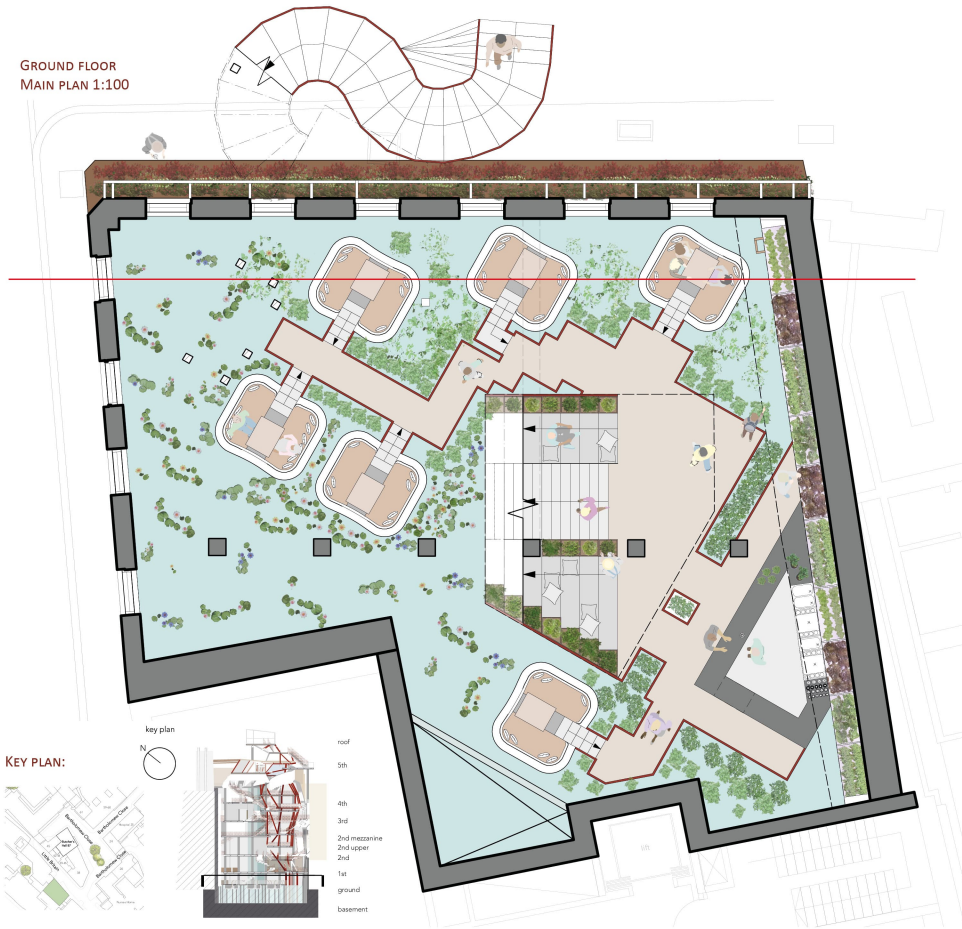
## DESCRIPTION:

The rainwater harvest is really important in the climatically changing world. This approach also helps to conserve the valuable fresh rainwater which later can be used for showering, watering the plants or doing the washing.

The Butcher's Hall roof has a surface of around 600m<sup>2</sup>. Based on the information taken from Weather-and-climate, I calculated that it allows to harvest around 438 liters of rainwater per year. This water can be stored in the basement and ground floor level of the site, also providing an environment for an edible algae to grow. Water makes us humans more calm and relaxed, therefore I positioned a mini restaurant/bar within the sunken lowest space with a variety of sunken seating. Owing to this significant alteration, I moved the entrance to the level above and connected it with the newly inserted platform.

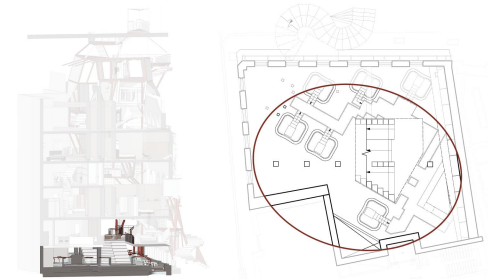
The newly created platform has an incorporated plumbing system that would transport the gathered on the roof water to the lower levels.

GROUND FLOOR  
MAIN PLAN 1:100



3D MODEL

GROUND FLOOR PLAN



VISUAL - THE FLOODED SPACE

