

# WHEN WAS THE LAST TIME YOU PLANTED A SEED?



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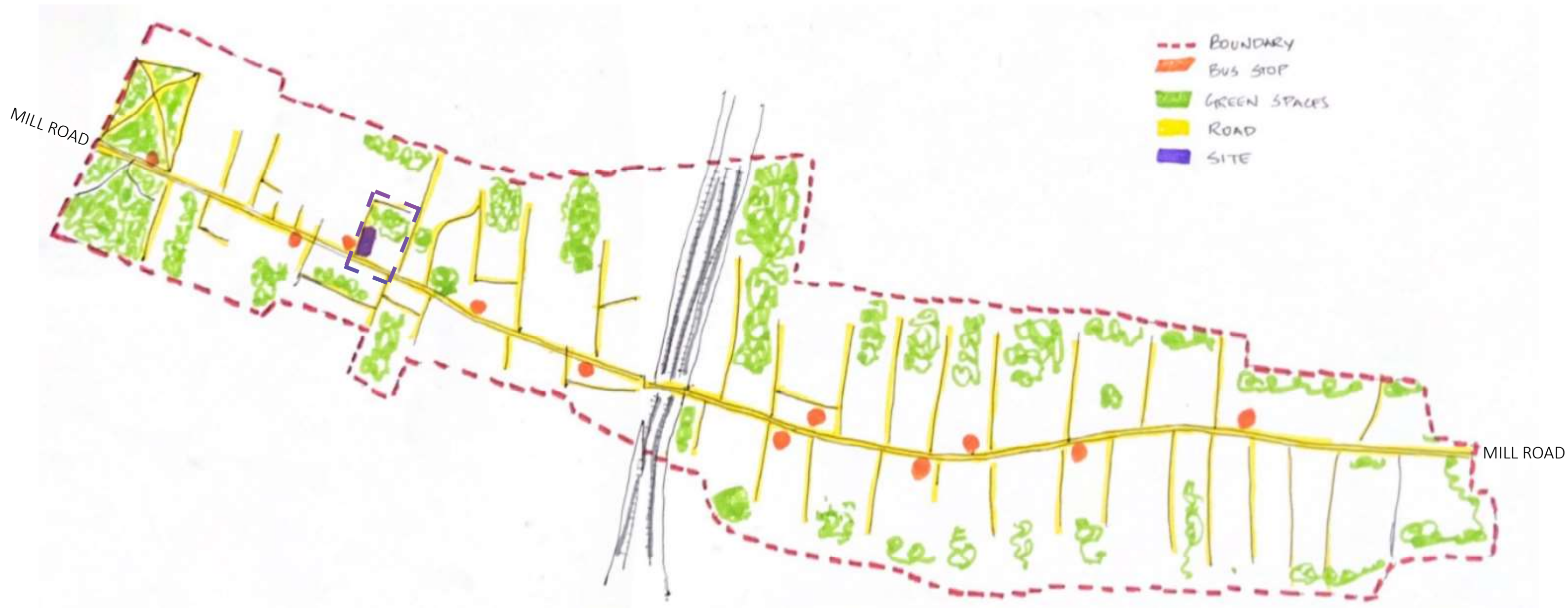
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# FUTURE MILL ROAD

## Creating a More than Human Neighbourhood





## PROJECT BRIEF

### FUTURE MILL ROAD

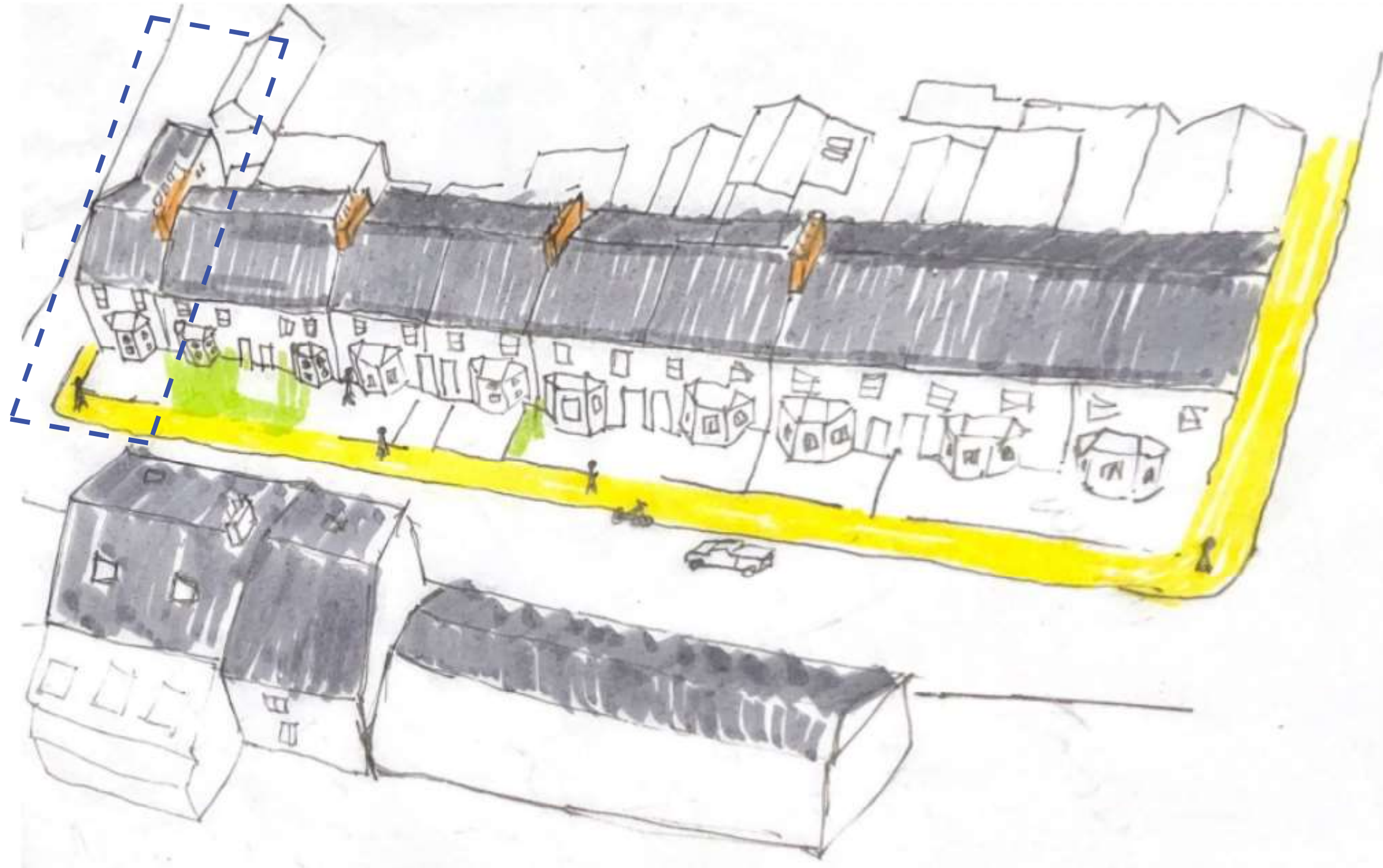
Creating a More than Human Neighbourhood

## OBJECTIVE

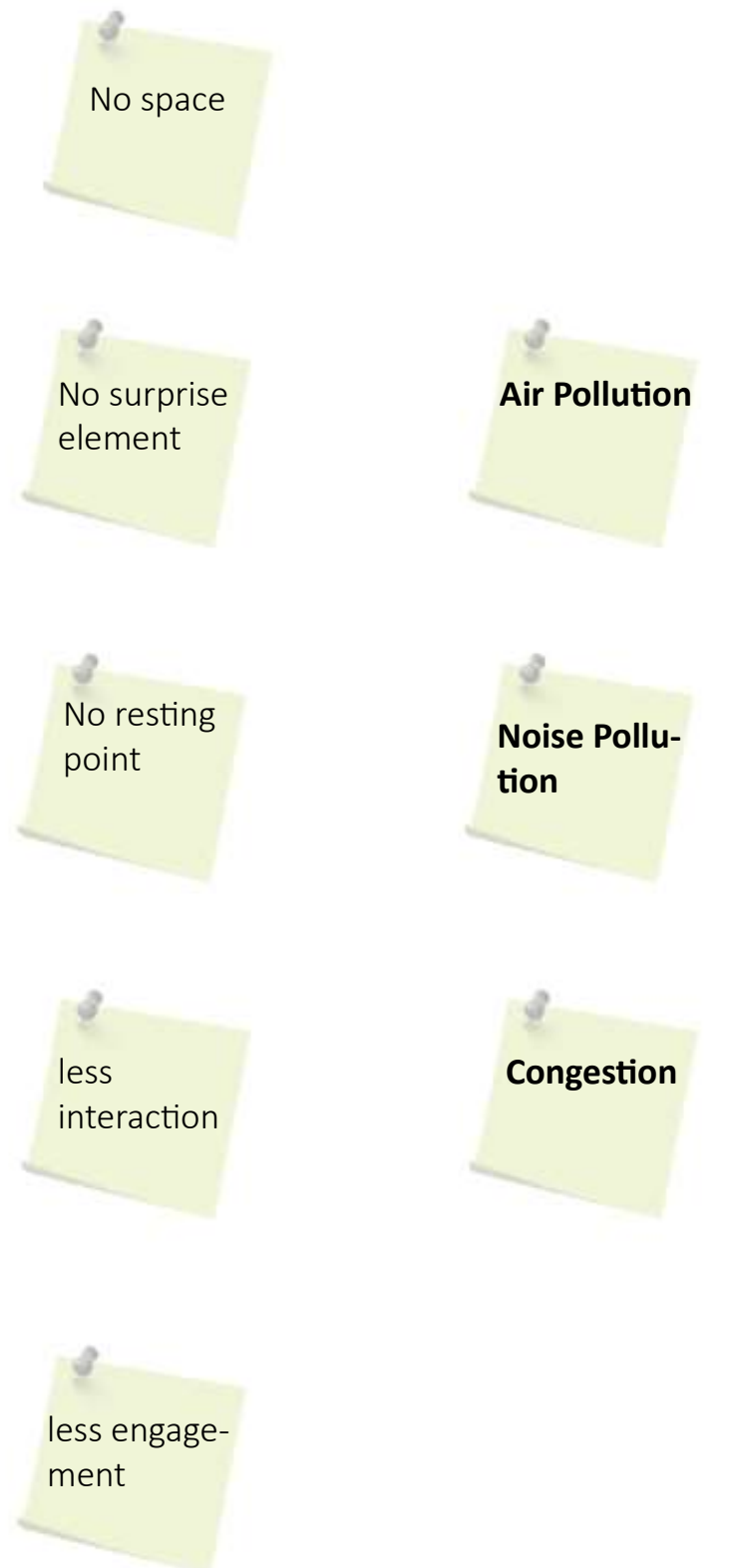
### NATURE AS CULTURE

The idea that nature and culture are so tightly interwoven that they cannot be separated INTO “NATURE” and “CULTURE.”

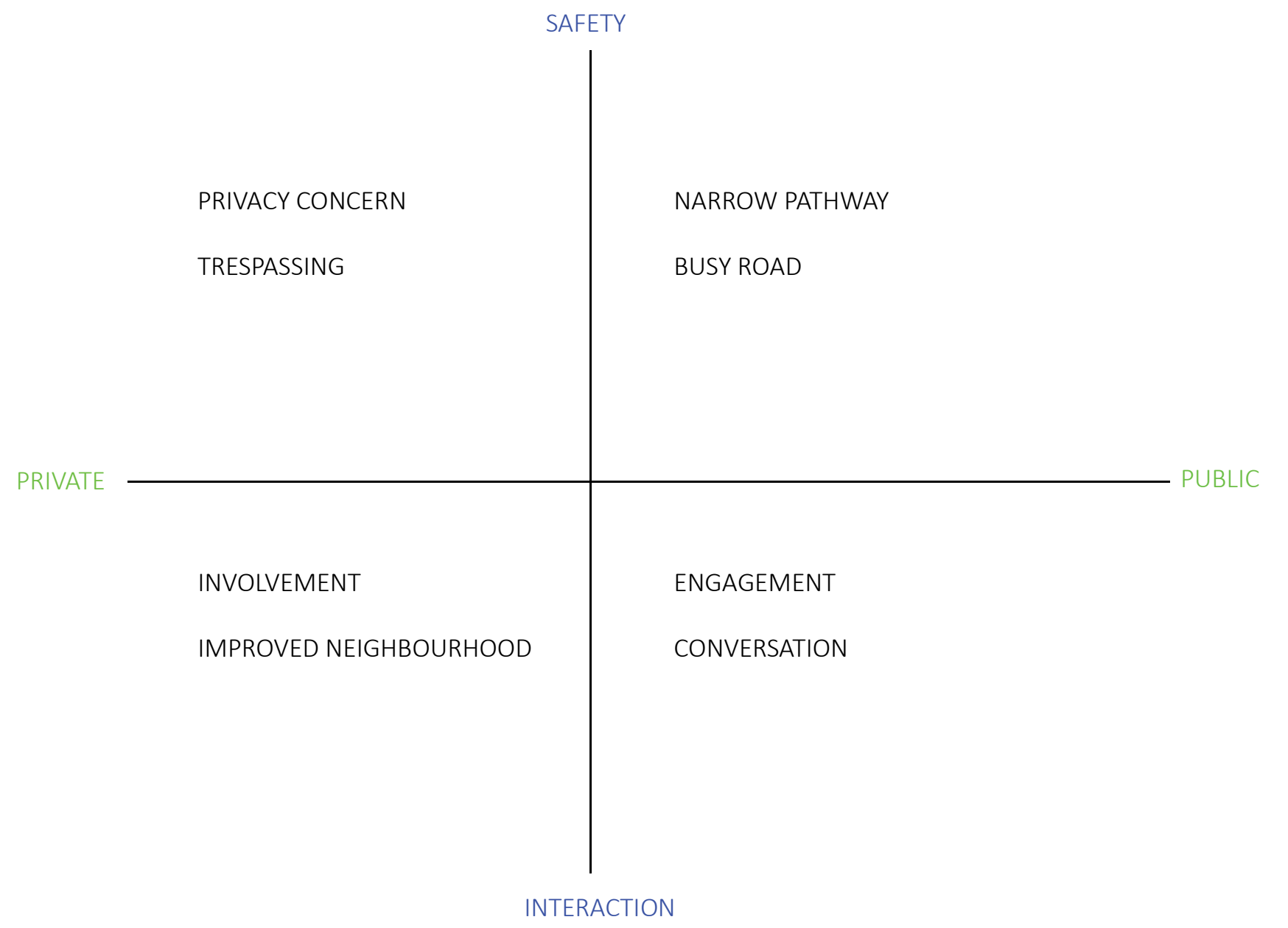
-NICHOLAS MALONE, KATHRYN OVENDEN



# PRIMARY RESEARCH



Findings from in-person interview leading to key issue found on Mill Road



Findings from in-person interview represented through visual matrices

## SECONDARY RESEARCH

- Goal 1** Create a low-traffic, low-pollution street
- Goal 2** Improve active travel
- Goal 3** Support and encourage a wide range of independent businesses



Findings from <https://millroad4people.org/> about current issues on Mill Road

## EDEN'S COMMUNITY GARDEN - CORNWALL



Findings from internet research



# 55, EMERY STREET, CAMBRIDGE.

- 1. 55 A Emery street
- 2. Entrance / Back entrance
- 3. 55 Emery Street
- 4. Front Garden
- 5. Pedestrians way
- 6. Road
- 7. Pedestrians way
- 8. Shop Front

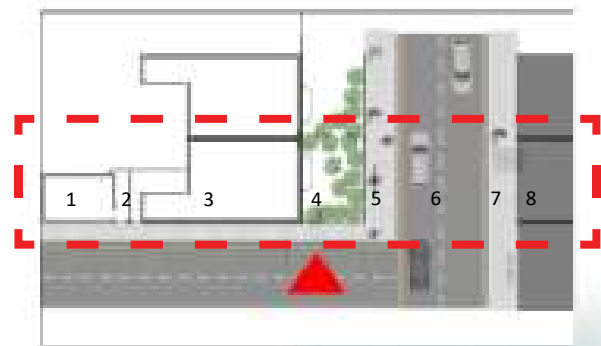
Plan view of 55 Emery Street showing existing site layout.



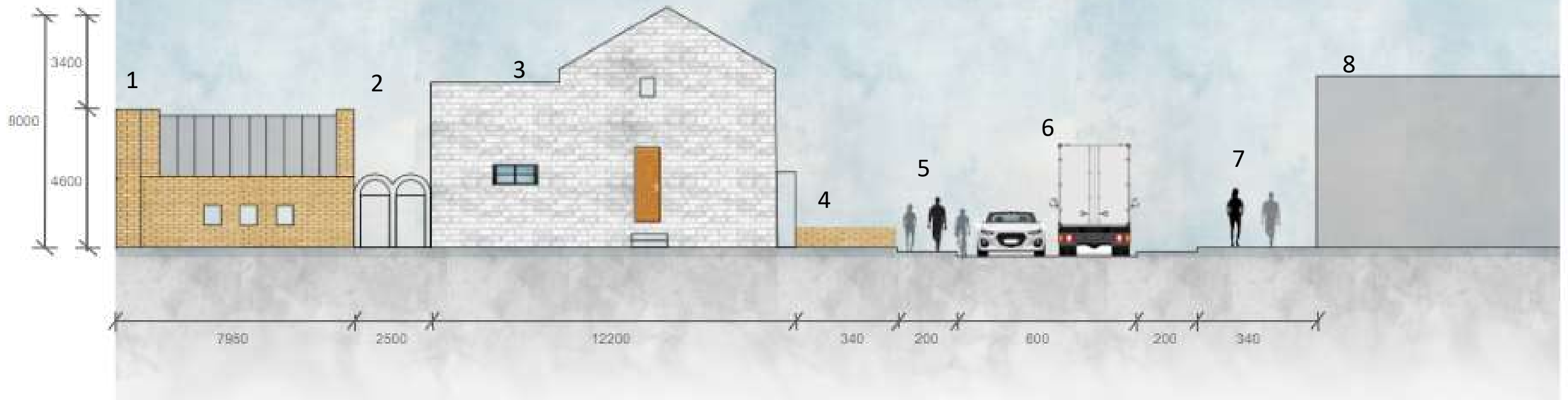


## WHAT IS THE PROBLEM?

The problem on Mill Road is that its narrowness and the constant passage of vehicles create an environment where people lack safe and adequate spaces to stop and interact. This makes the area unsafe and inconvenient for pedestrians, as there is little room to move freely without the risk of encountering traffic. The limited space also discourages social interactions and contributes to a less welcoming and community-friendly atmosphere.



1. 55 A Emery street
2. Entrance / Back entrance
3. 55 Emery Street
4. Front Garden
5. Pedestrians way
6. Road
7. Pedestrians way
8. Shop Front



# IDEA GENERATION



WHAT THEY NEED? WHY?  
Get rid of congestion, Free space to walk



WHAT IS YOUR PASSION?  
Introducing natural materials to enhance sustainability



WHAT IS THE UNIQUENESS OF  
MILL ROAD?  
Natural heritage, natural materials used in most buildings



WHAT IS THE BUSINESS CASE?  
WHY?  
Shared space between private/public.  
encouraging neighbourhood business



# STAKEHOLDER FEEDBACK



Stakeholder Review 2

1. How would you get Landlords interested in your Idea?
2. What is the problem that you are focusing on? Why?

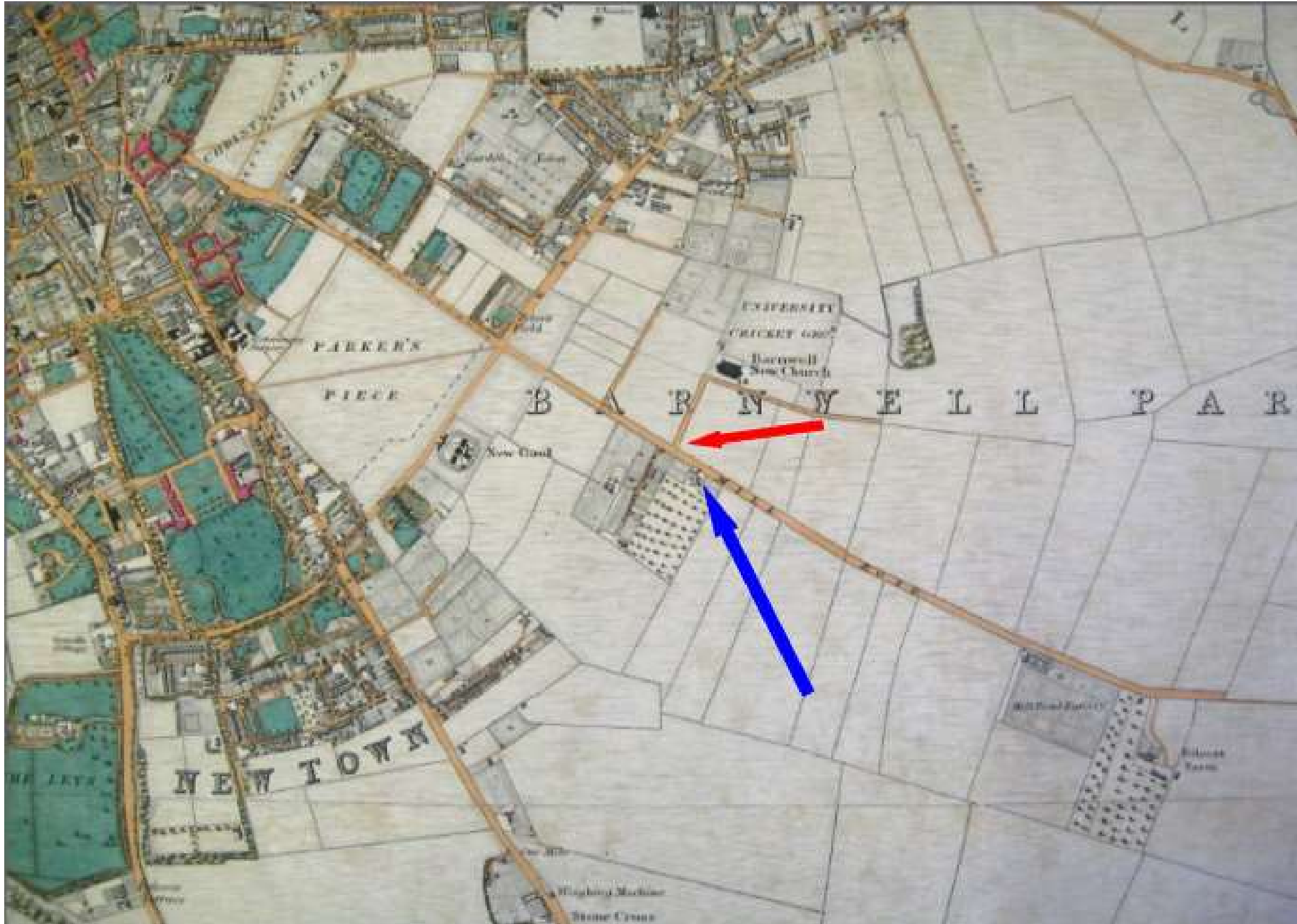


Stakeholder Review 3

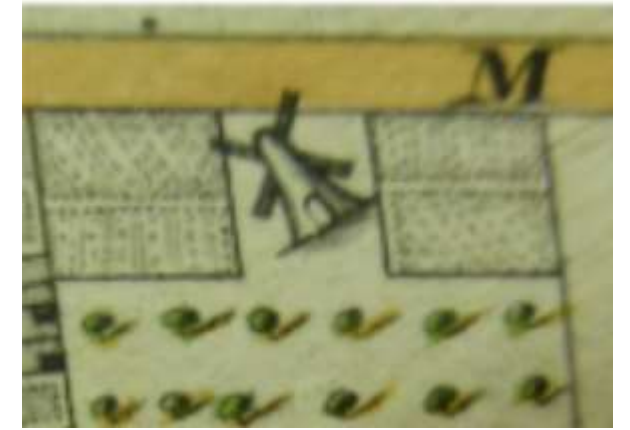
1. How do you design the transition from public to private (horizontally and vertically)
2. How do your Idea ensure homeowners that they will not lose value of their property?
3. Develop models of ownership and practice relevant to future Mill Road.
4. Concerned about losing the view from bay window.

# HISTORY

A



B



C

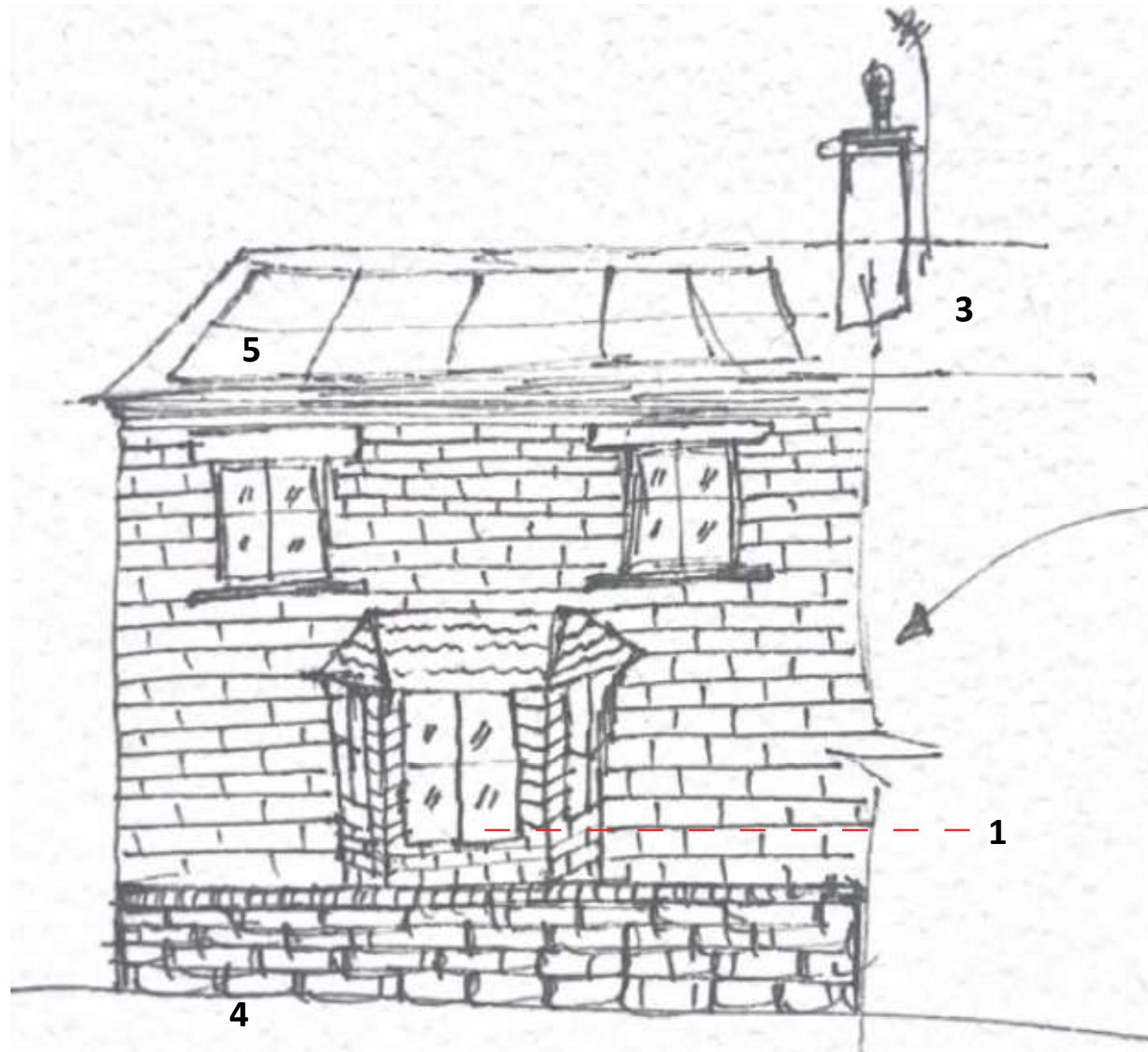


Mill Road circa 1830's showing (A) the Mill and (B) (C) picture of the mill located opposite to 55 Emery Street

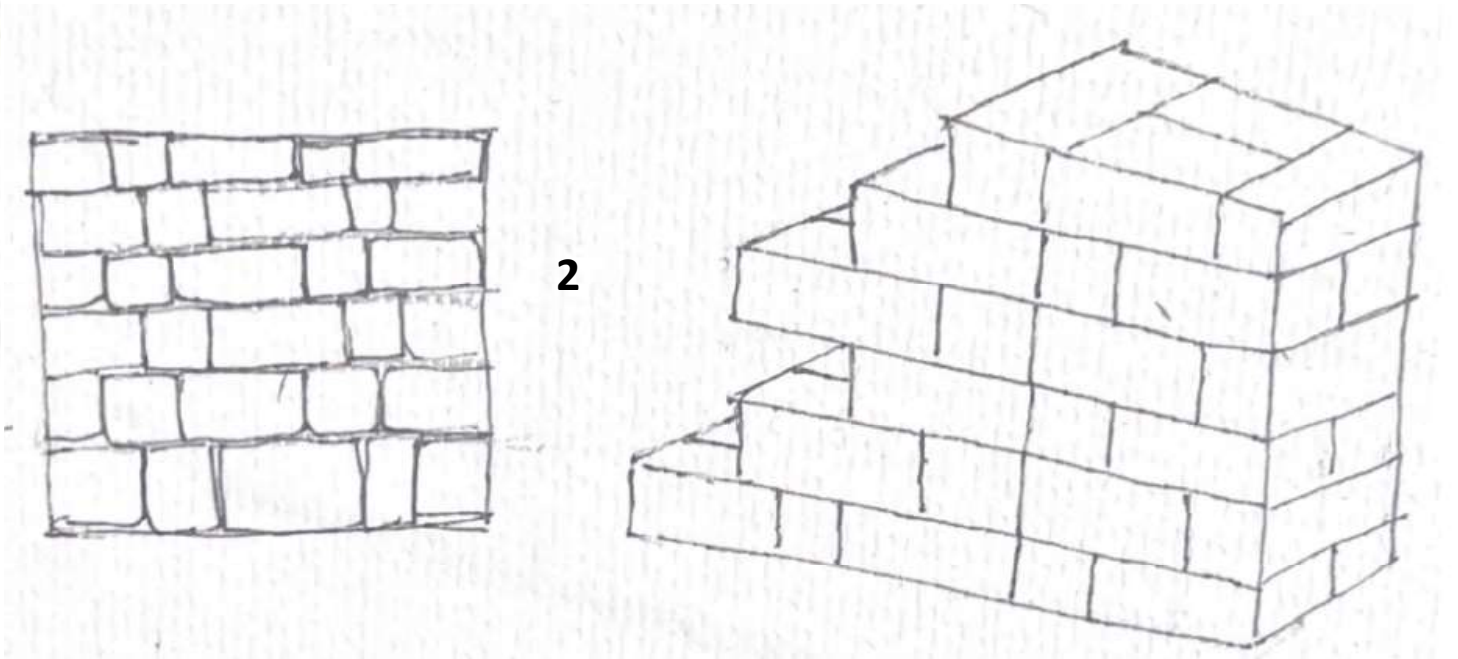


# MATERIAL EXPLORATION

Material exploration of 55 Emery Street (Victorian style house)



1. Bay window
2. Decorative Brickwork
3. Slate roofs
4. Front Garden
5. High ceiling and sash windows



# POTENTIAL OPPORTUNITIES

Introducing agriculture to mill road as a future culture



CAMBRIDGEHOK >> SEED LEAVES

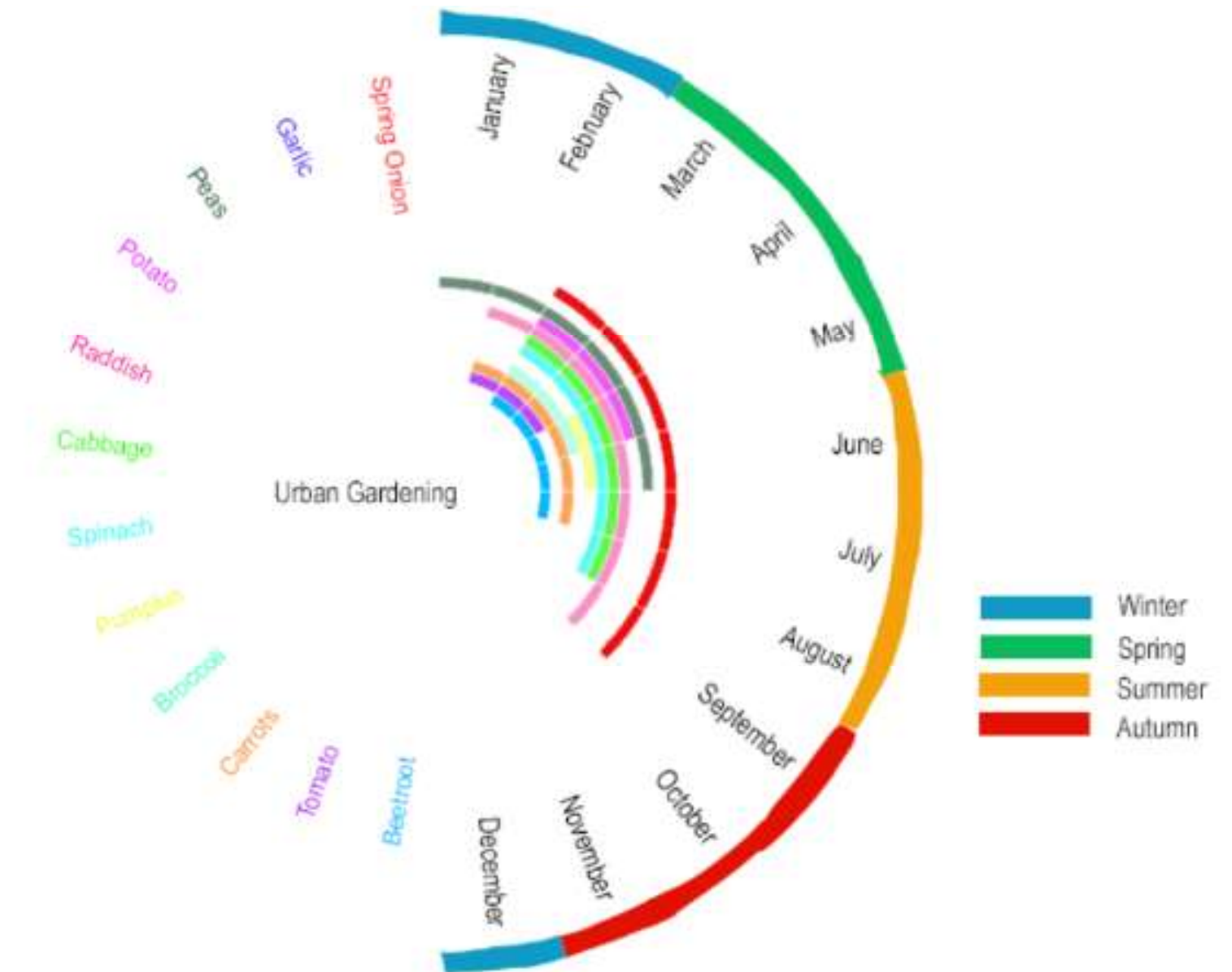
New 'vertical greenhouse' of growing towers to supply fresh produce to restaurant, food hall and cookery school



AZRAQ REFUGEE CAMP

Hydroponics pilot project to expand work opportunities in Azraq refugee camp

## VEGETABLE CALENDER





# CONCEPT



NOW

IN 10 YEARS

An elderly couple lives in a residence with an urban garden that is open to the public. They benefit from their sustainable living and help others learn to grow and live sustainably.

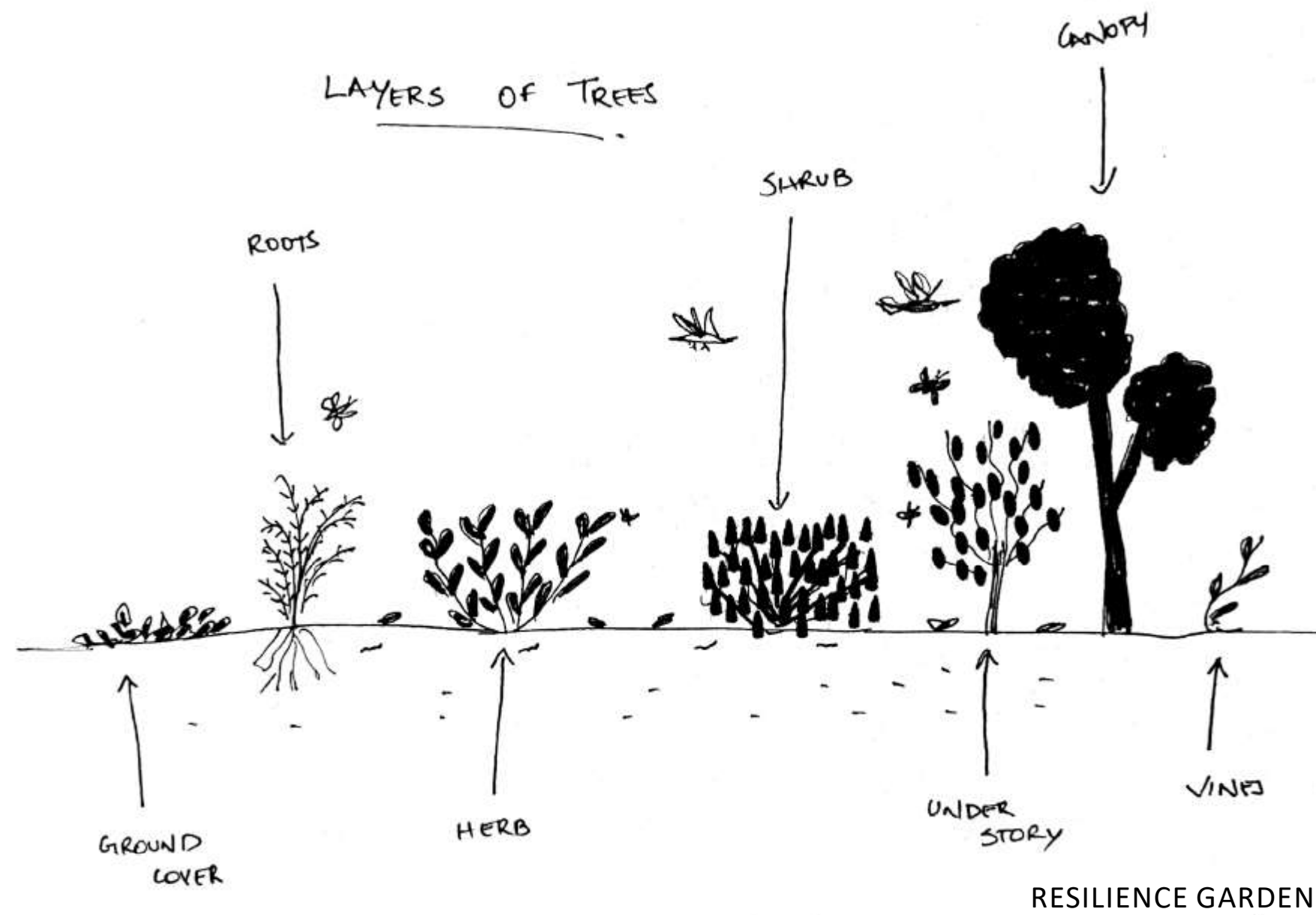
# FEEDING MILL ROAD - URBAN GARDENING





# DESIGN PRINCIPLES SUSTAINABILITY . BIODIVERSITY . INCLUSIVITY

Introducing agriculture to Mill Road as a future culture



SOIL INK

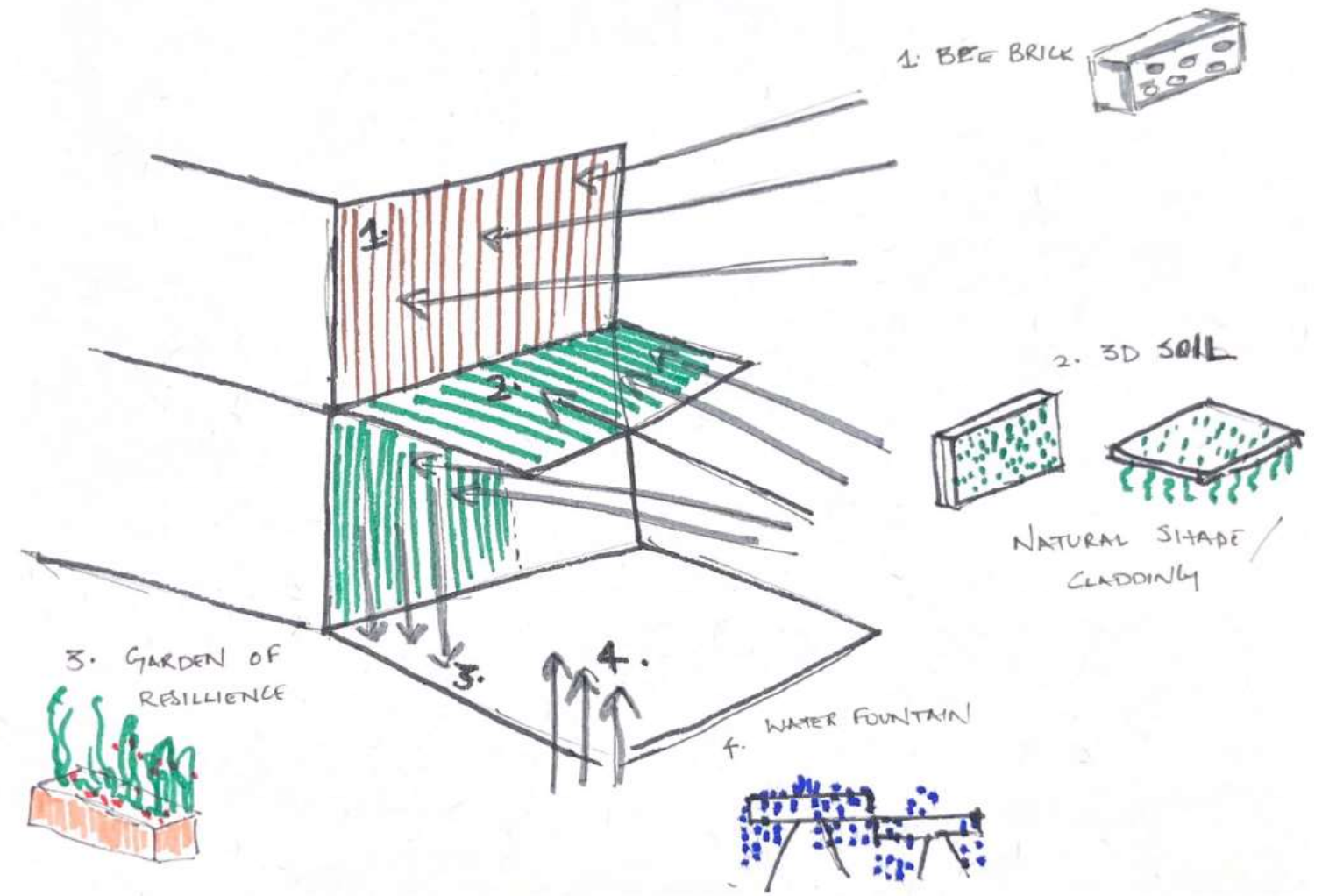
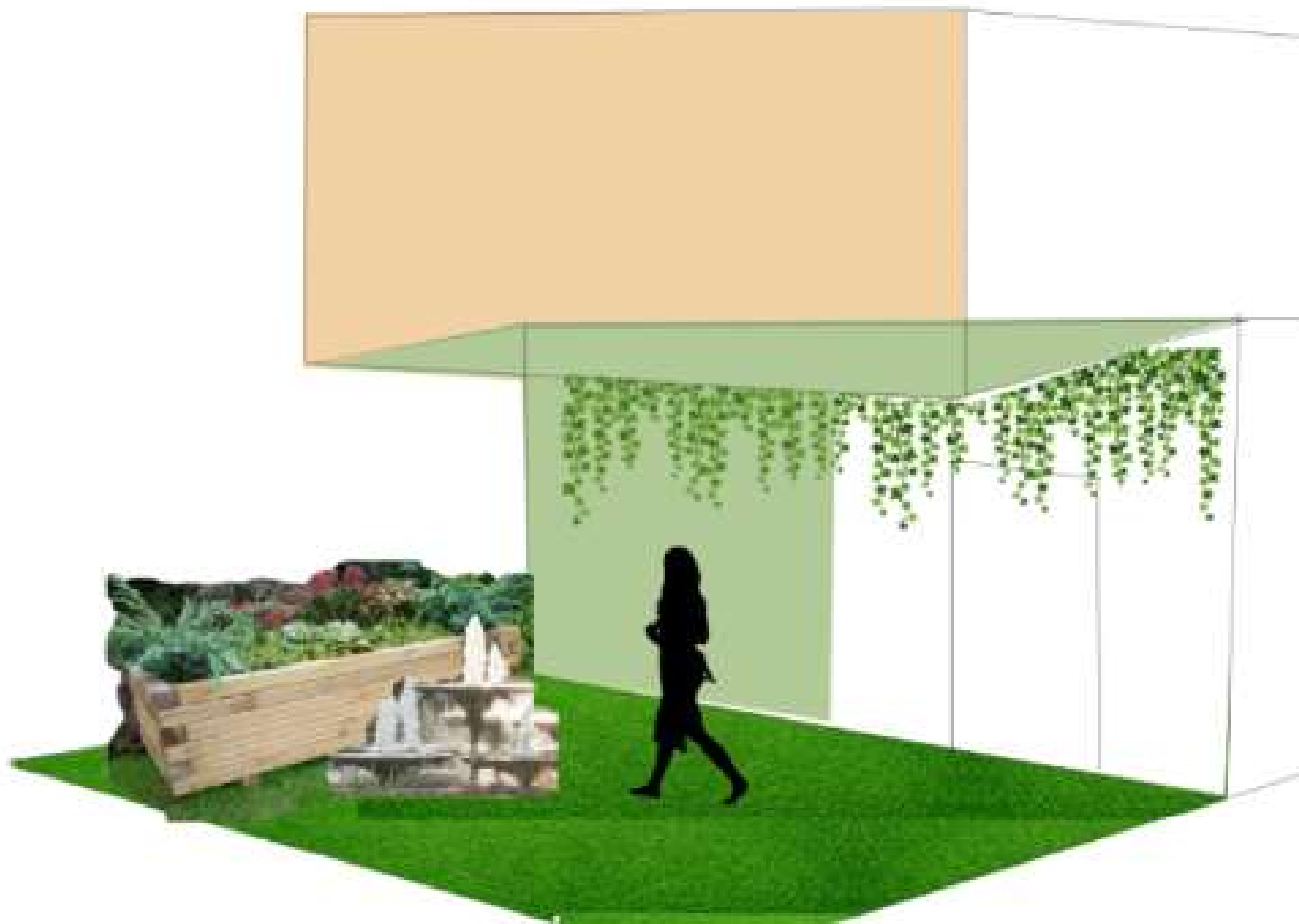


BEE BRICKS

Interspecies Design: Developing Materials That Allow the Growth and Inhabitation of Non-human Species

# CONCEPT DEVELOPMENT

Early concept exploration of remodeling 55 Emery street into an Urban garden



## CONCEPT DEVELOPMENT

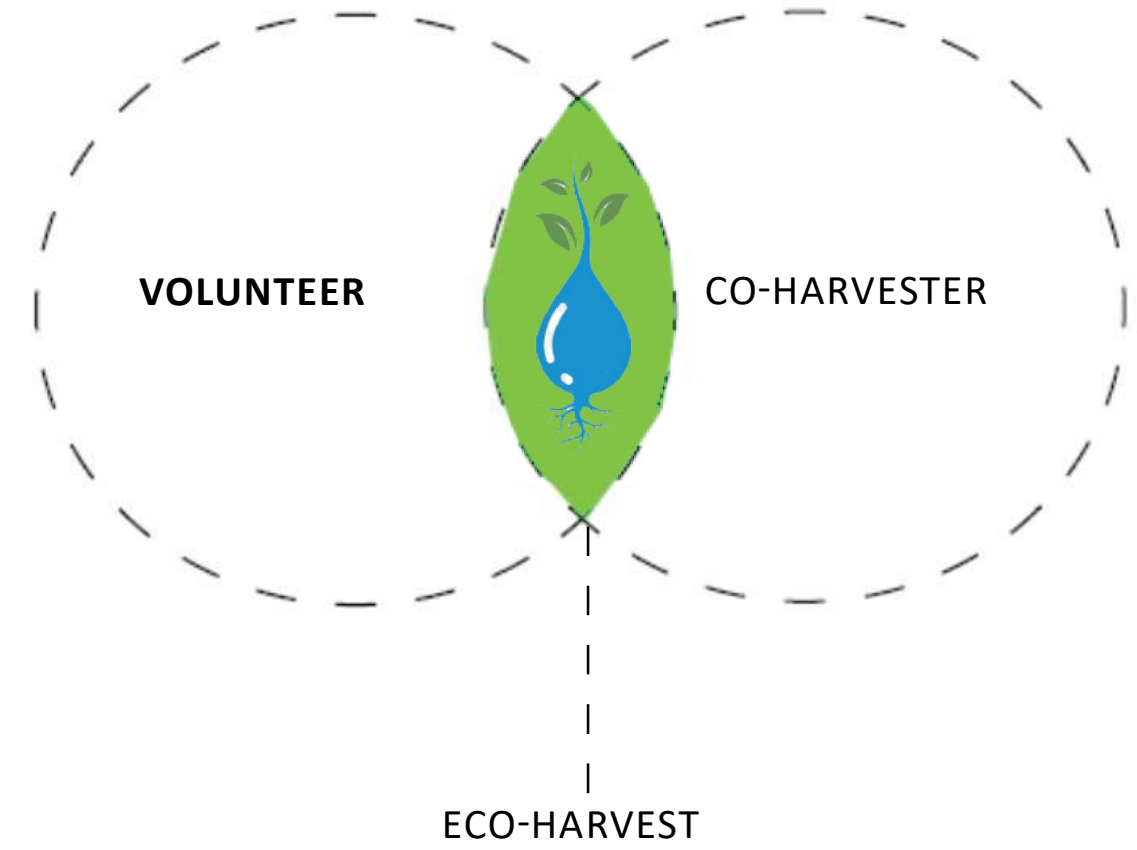
Urban gardening can engage pedestrians and residents by creating inviting spaces to stop and interact. Using resourceful methods like greenhouse gardening, Aeroponics. It promotes vegetable cultivation and encourages community involvement. This practice not only enhances local green spaces but also inspires others to adopt sustainable gardening habits, fostering a shared sense of environmental stewardship.





# COMMUNITY ENGAGEMENT

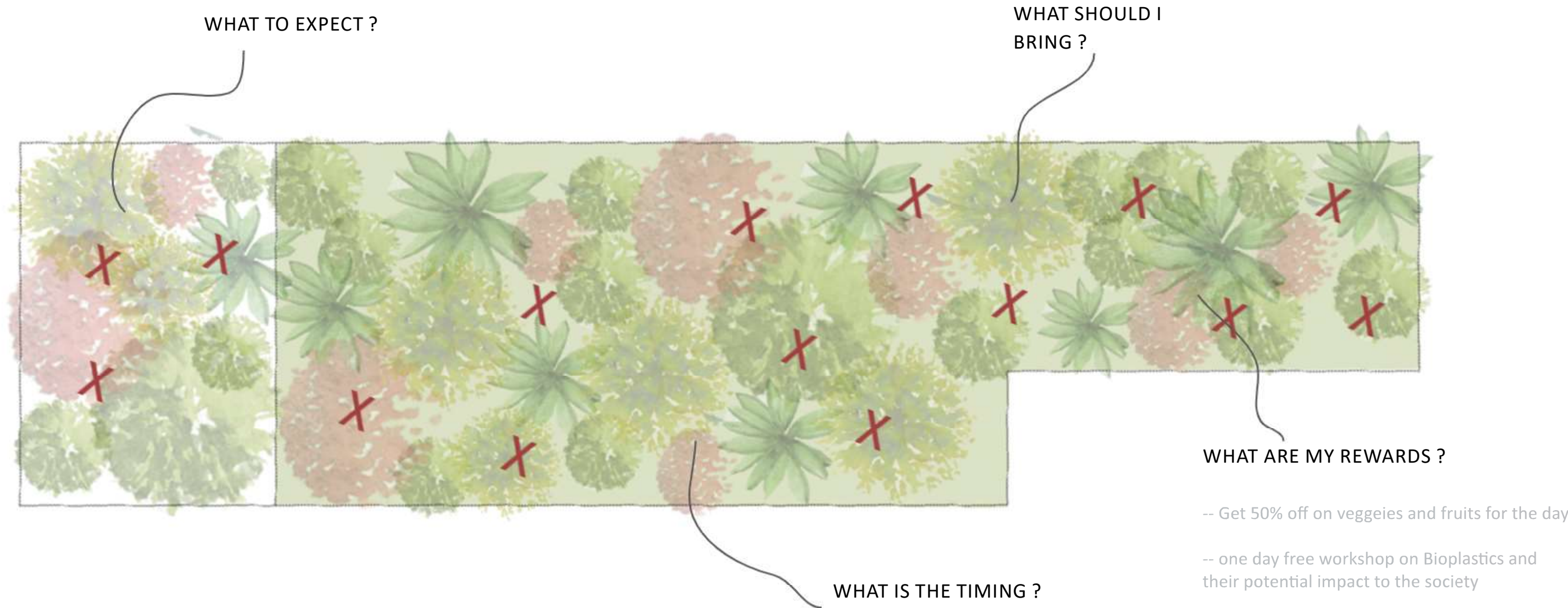
HOME INSTEAD



MILL ROAD COMMUNITY ENGAGEMENT

Map showing two community centres nearby and involving volunteers from community to 55 Emery Street (Eco-Harvest)

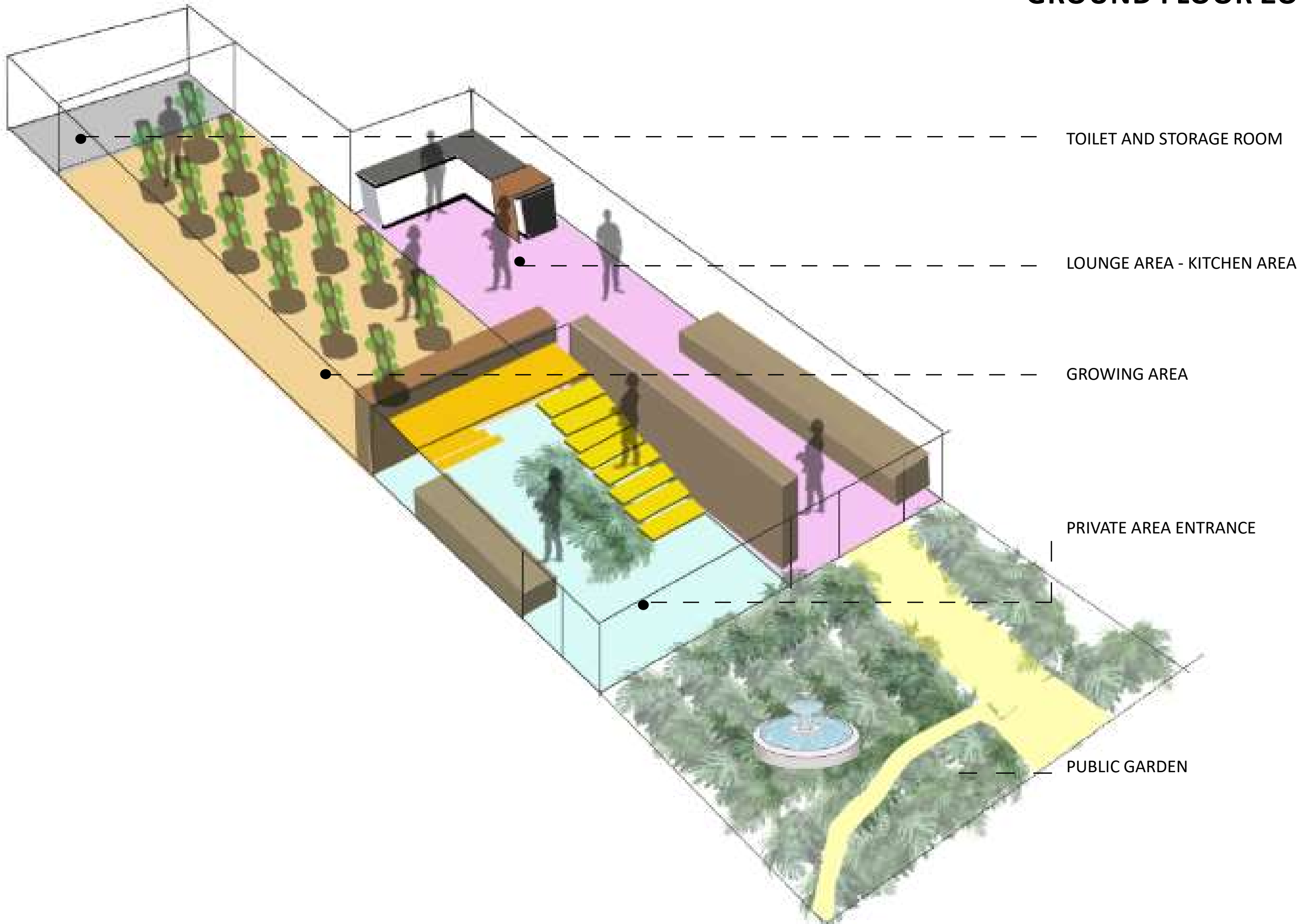




**GROUND FLOOR ZONING**



# GROUND FLOOR ZONING



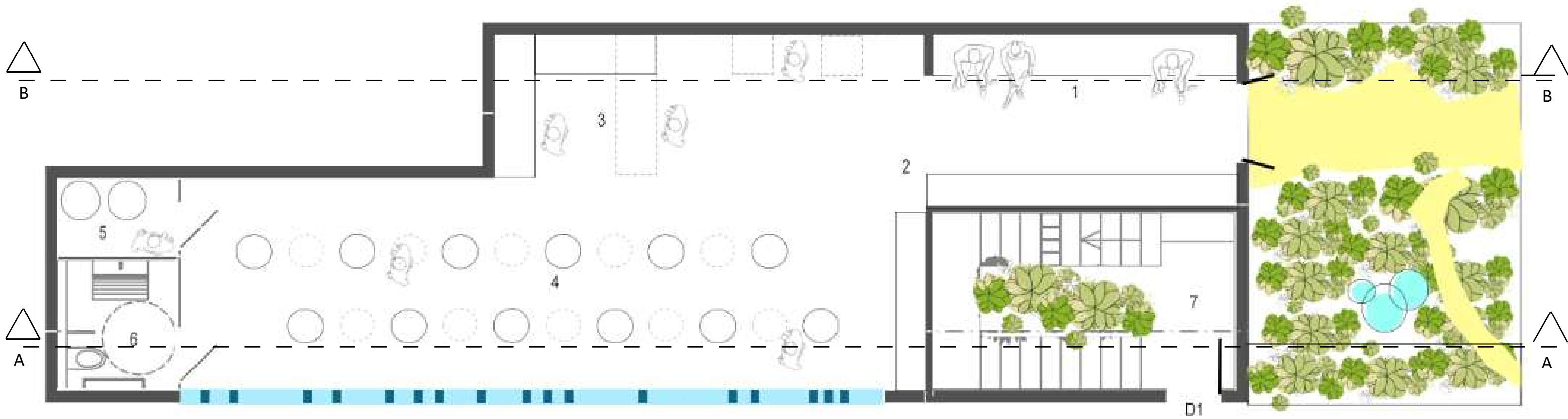
# GROUND FLOOR PLAN





# GROUND FLOOR PLAN

- 1. LOUNGE
- 2. DISPLAY RACK
- 3. KITCHEN
- 4. GROWING AREA
- 5. STORAGE ROOM
- 6. TOILET
- 7. PRIVATE ENTRANCE FOR RESIDENCE



# SECTION A

STONE BASIN



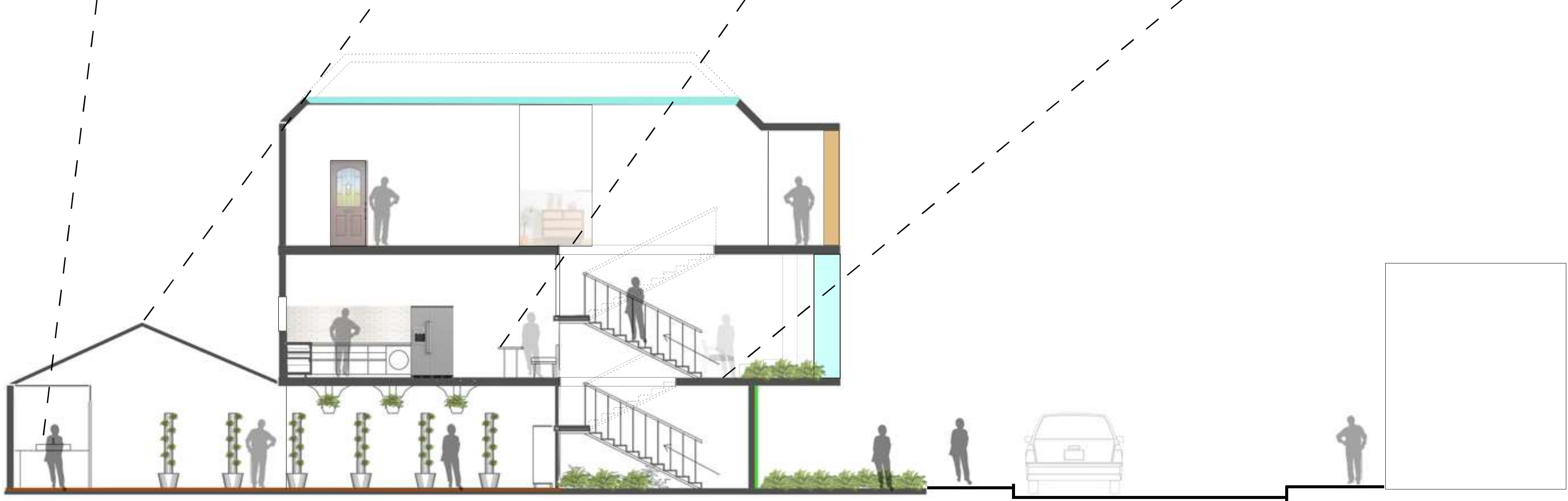
PLANT ROOFING



MOTOKI YASUHARA CONVERTABLE TABLE



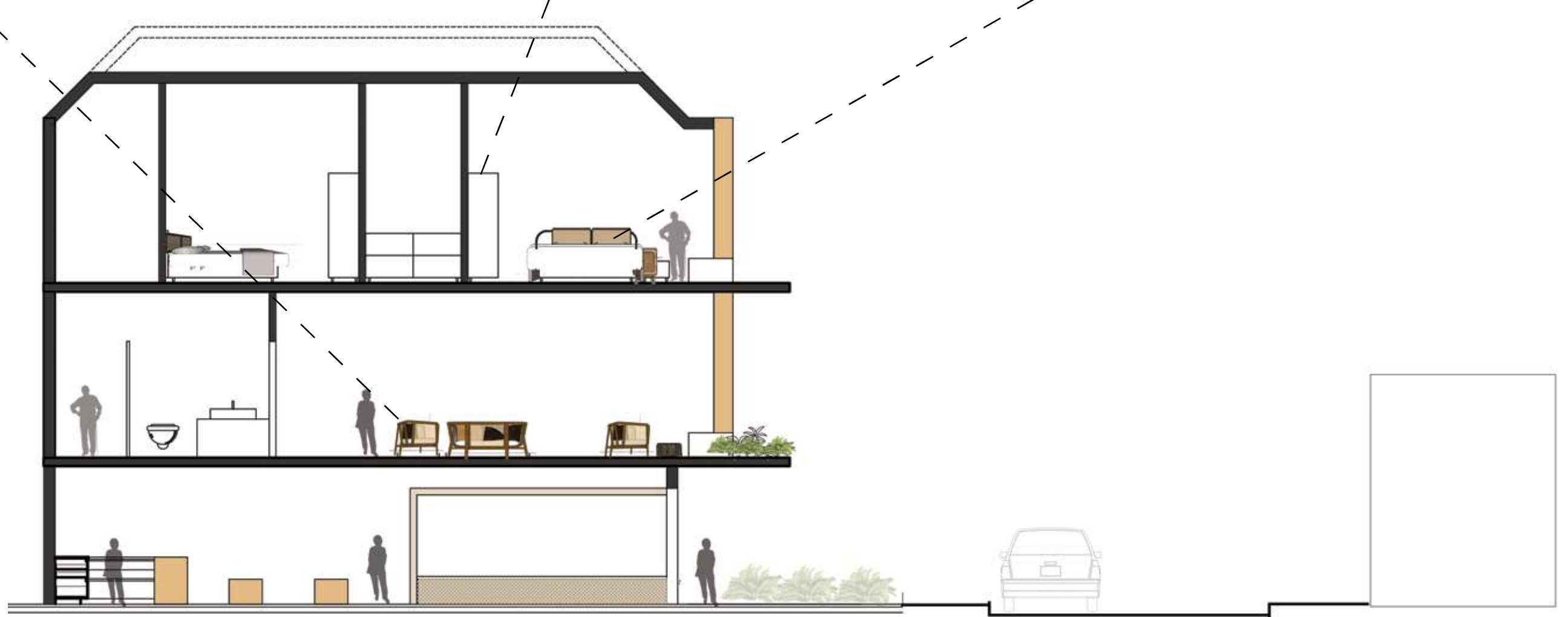
OXIDE FLOORING / TERRACOTA TILE





# SECTION B

INTRODUCTION OF CANE MATERIALS





# VIEWS



1. LOUNGE - SEATING



2. LOUNGE - DISPLAY





# VIEWS

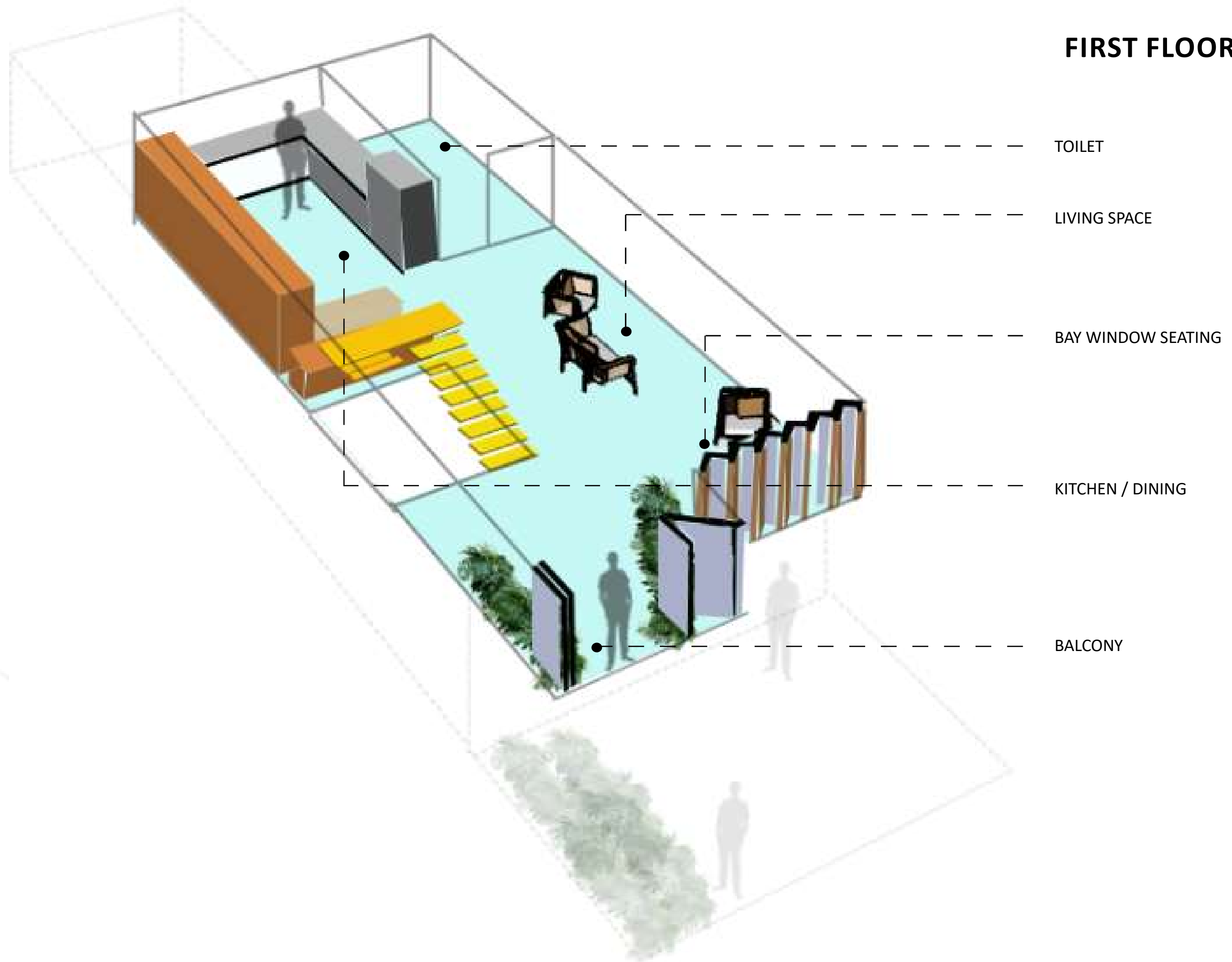
3. ECO-HARVEST WITH AEROPONICS AND BABYLOON



4. ENTRANCE FOR PRIVATE RESIDENCE WITH A SMALL GARDEN IN FOYER SPACE

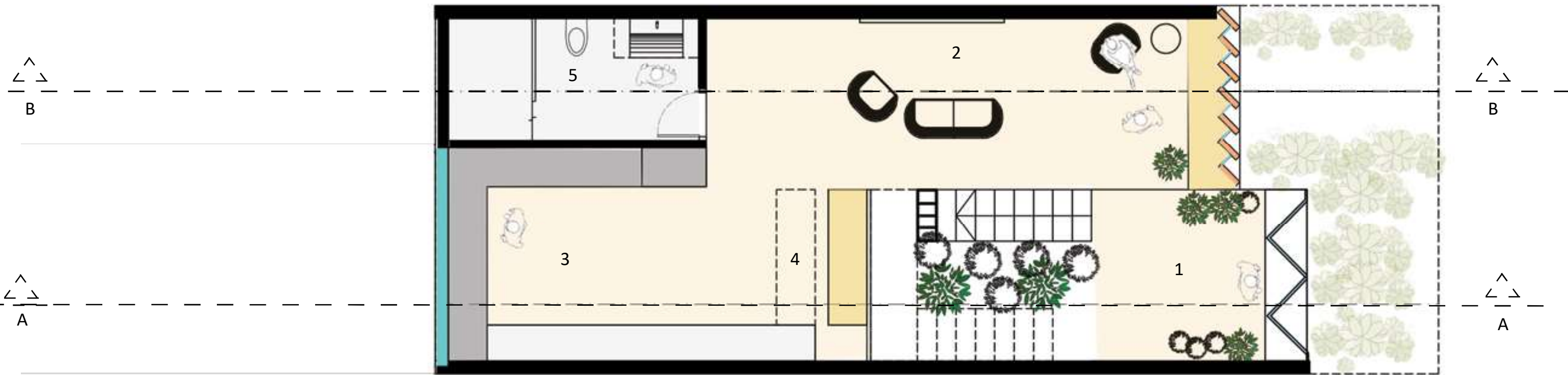


# FIRST FLOOR ZONING



# FIRST FLOOR PLAN

- 1. BALCONY
- 2. LIVING ROOM
- 3. KITCHEN
- 4. DINING
- 5. TOILET





# VIEWS

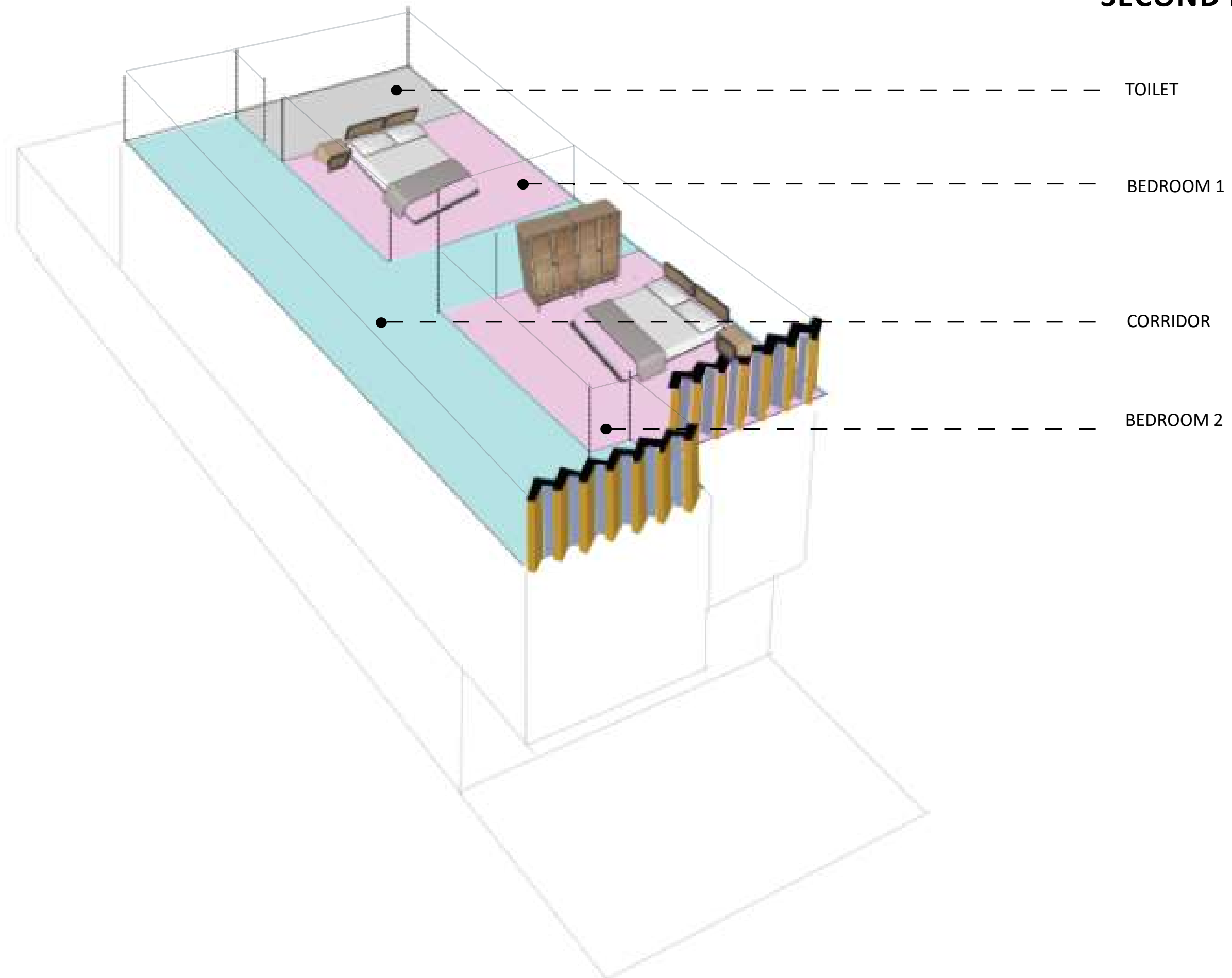
4. FIRST FLOOR PRIVATE BALCONY



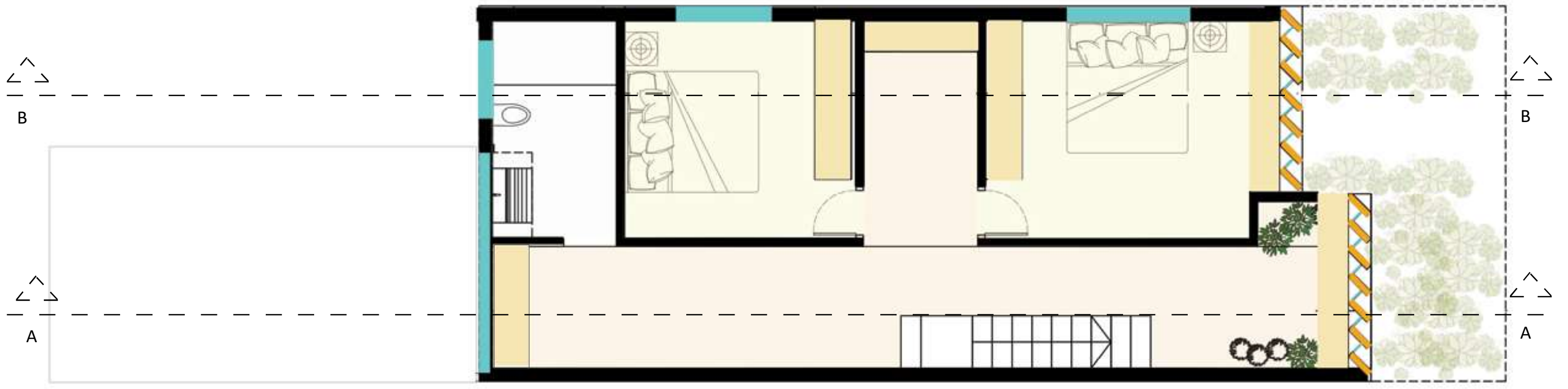
5. FIRST FLOOR LIVING - KITCHEN



## SECOND FLOOR ZONING



# SECOND FLOOR PLAN





# VIEWS



## SUSTAINABLE CONSIDERATION



This project is about interaction with Human and Non Human. As an experiment, to test bioplastics as a business case, incorporating plant seeds to bioplastic, Usage as shopping bags in Eco-Harvest. In this way when its thrown away it acts as fertilizer and grow into a plant in the soil.



# EXPERIMENT

WEEK 1



WEEK 2



WEEK 4



Early on experiment of incorporating Tomato seeds in Bioplastic and documenting weekly update.





**THANK YOU**