



TAYLOR'S  
UNIVERSITY

Wisdom · Integrity · Excellence

# INTERIOR ARCHITECTURE DESIGN II

Ashley Tew Li Wen

0343533



# POP-UP CAPSULE

ASHLEY TEW 0343533



# SUSTAINABLE FOOTWEAR

Sustainable shoes are shoes made mostly using recycled waste and involve an eco-friendly manufacturing process. Sustainable shoe materials can include natural fibers or upcycled and recycled materials.

These shoes contribute positively to environmental conservation. They minimize toxic waste due to the use of recycled materials and also use much lesser water and harmful chemicals in the manufacturing process.



RECYCLE RECYCLE RECYCLE



# CONCEPT

**Creativity** – Everyone are welcome to bring their unused/ old materials for donations towards our diy shoes workshop, where people can use to repurpose it

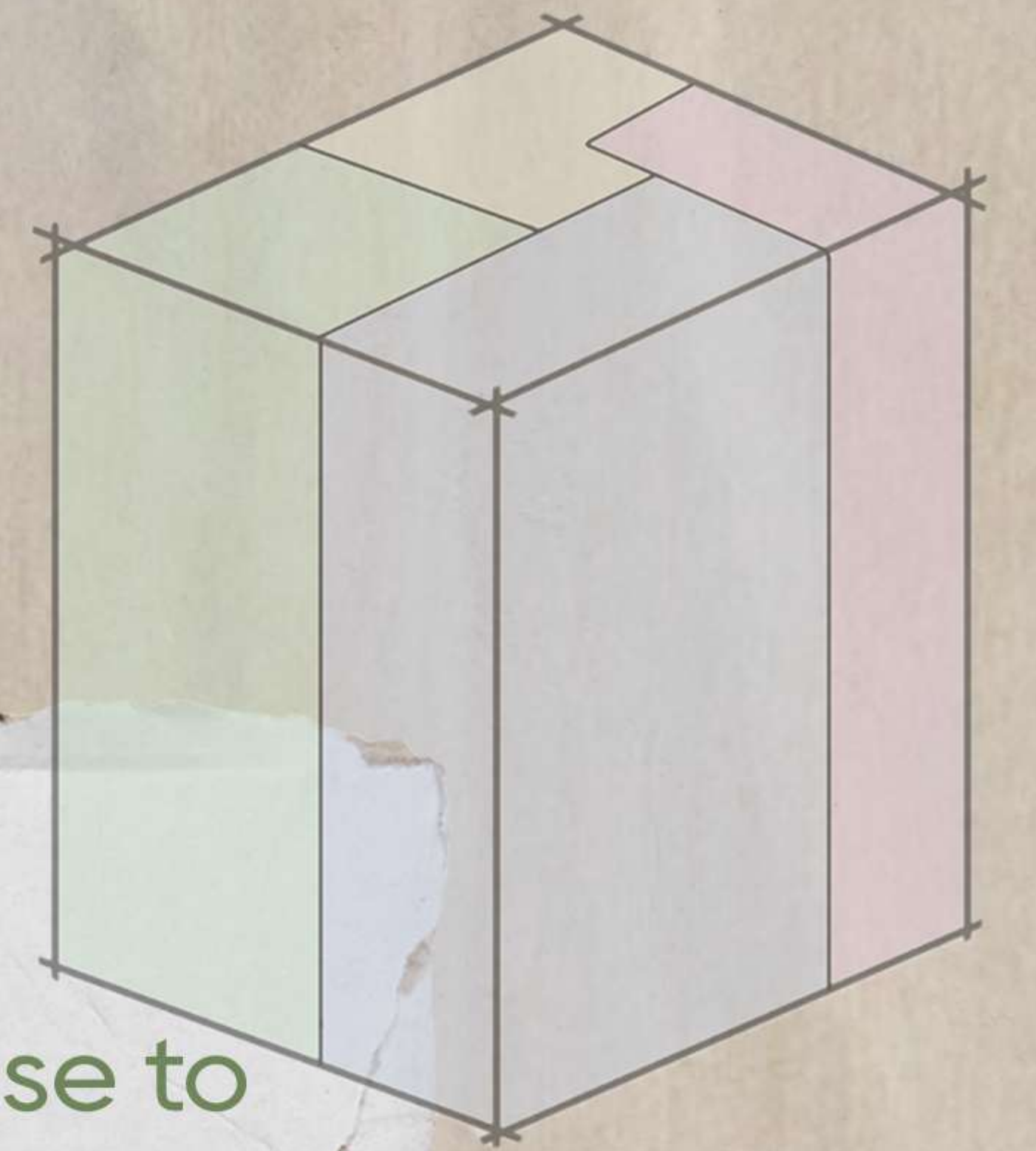
- Collabrating from local stores to clothing brands where they pass down leftover clothing pieces, old/rusted materials etc. to the workshop

**Healing** – To put everyone's **creativity** into good use by allowing them to customise their own vision/ reinterpretation of footwear design using donated materials

- Encourage **socialising** and exchanging of ideas to get more inspiration, knowledge and peers!
- Train the right-brain in the midst of daily life where we constantly use our left-brain, to relax our minds after being tense and stressed regularly

**Income** – Shoes made will be sold to distributors/ retailers or even fashion brands if they are interested

- Famous fashion brands would even street casting to hire you if your design is **unique**
- Portable table kit rental for shoe cobblers





Thrifty

creativity

DIY

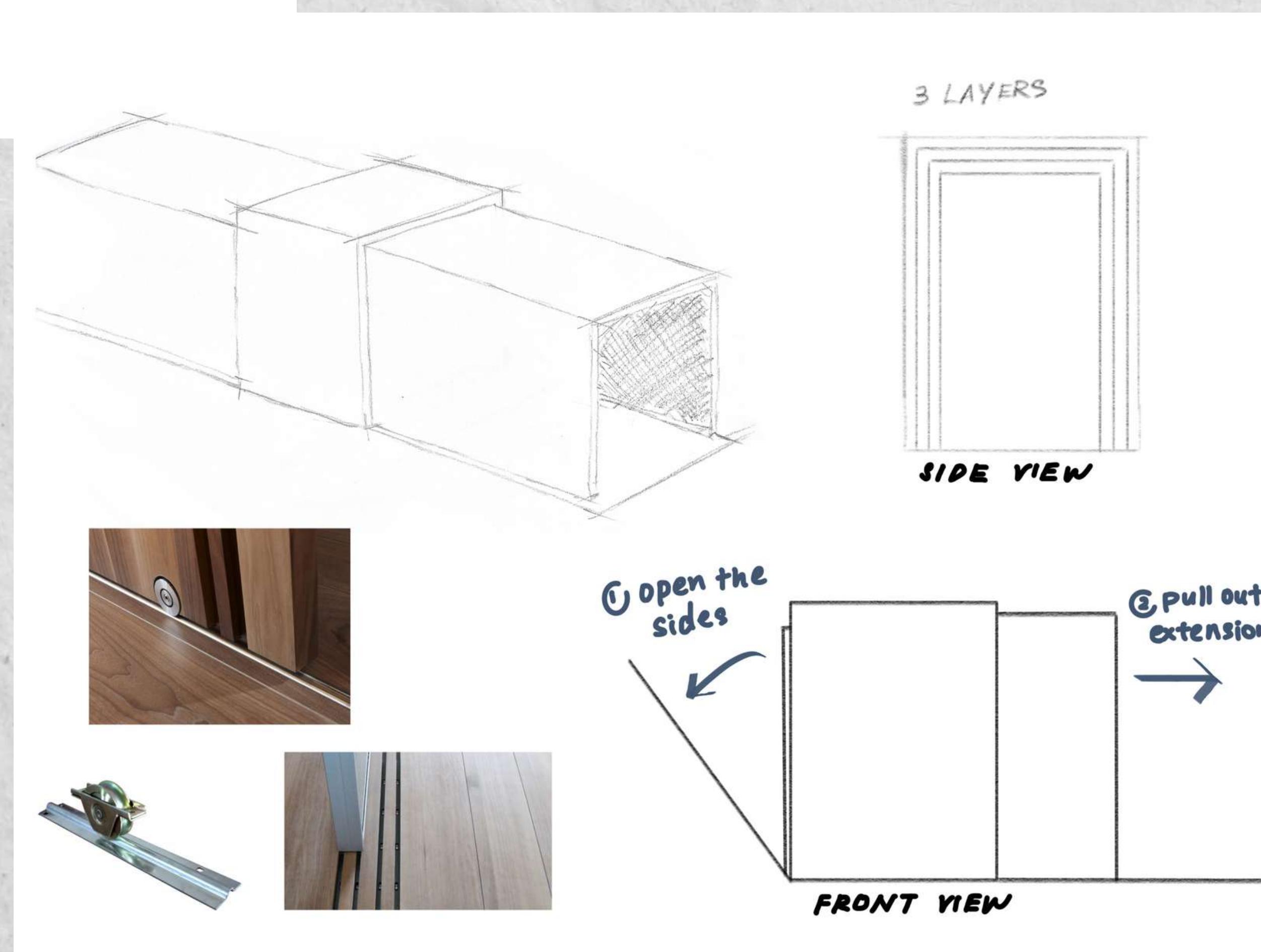
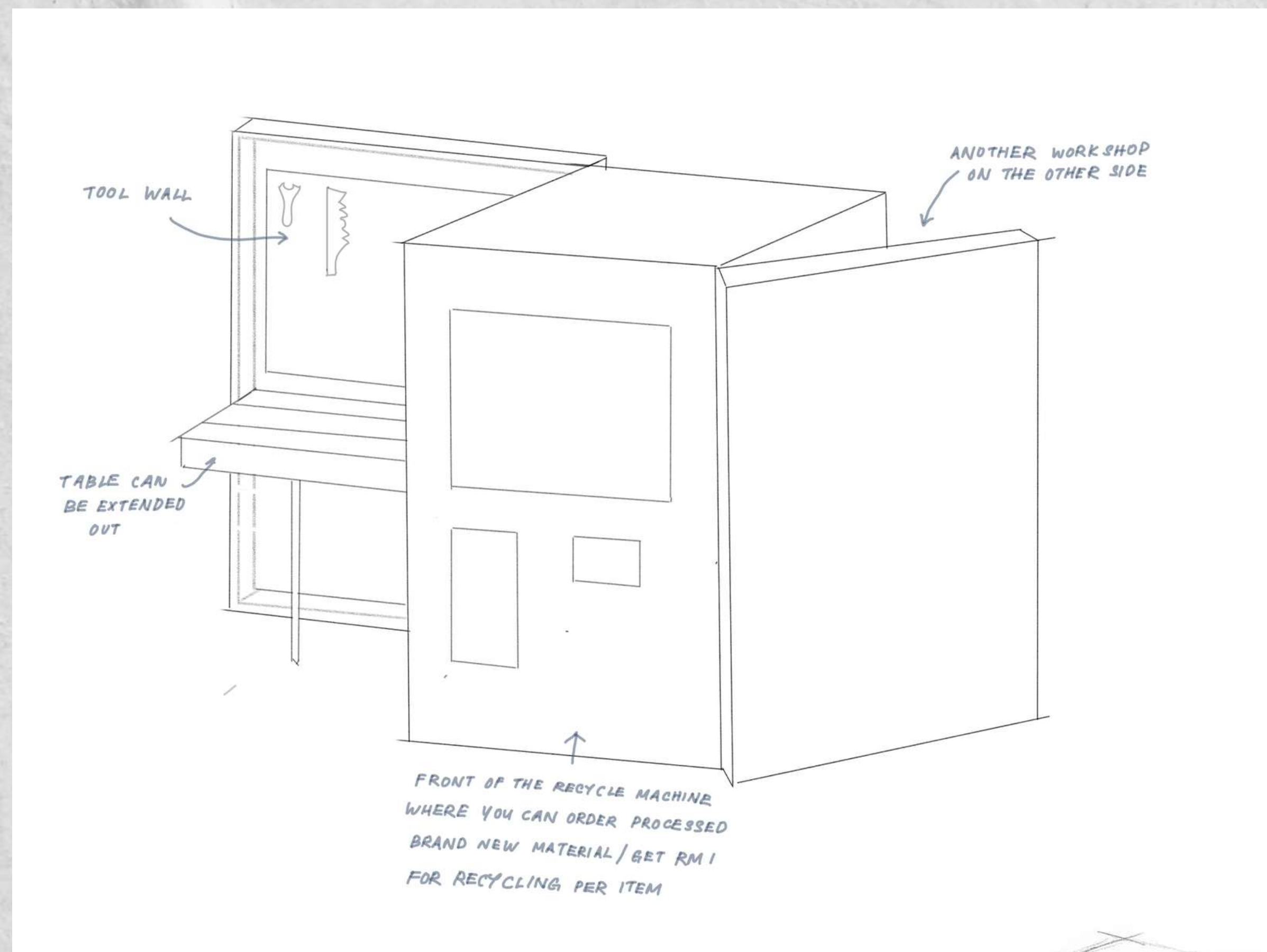
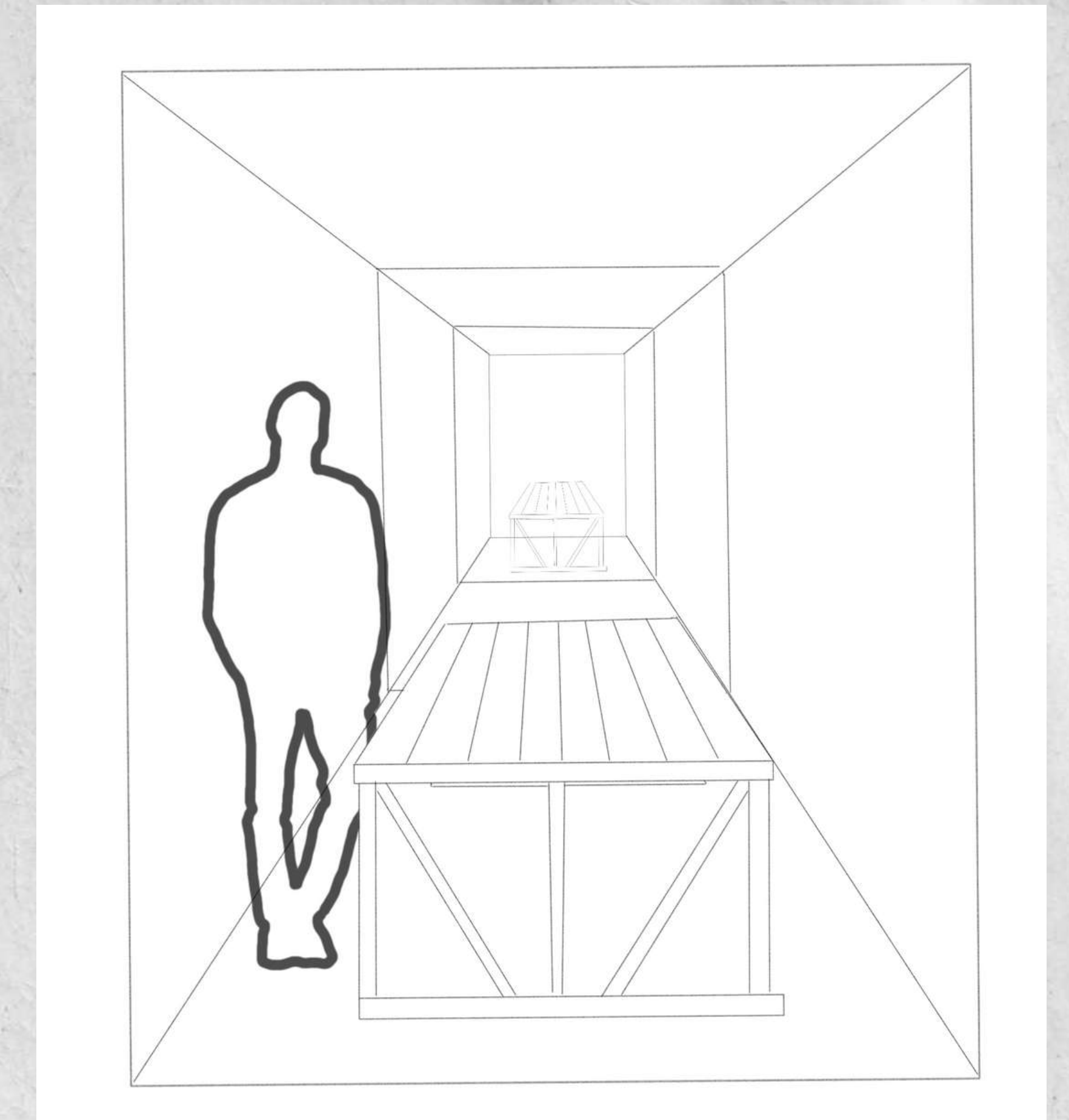
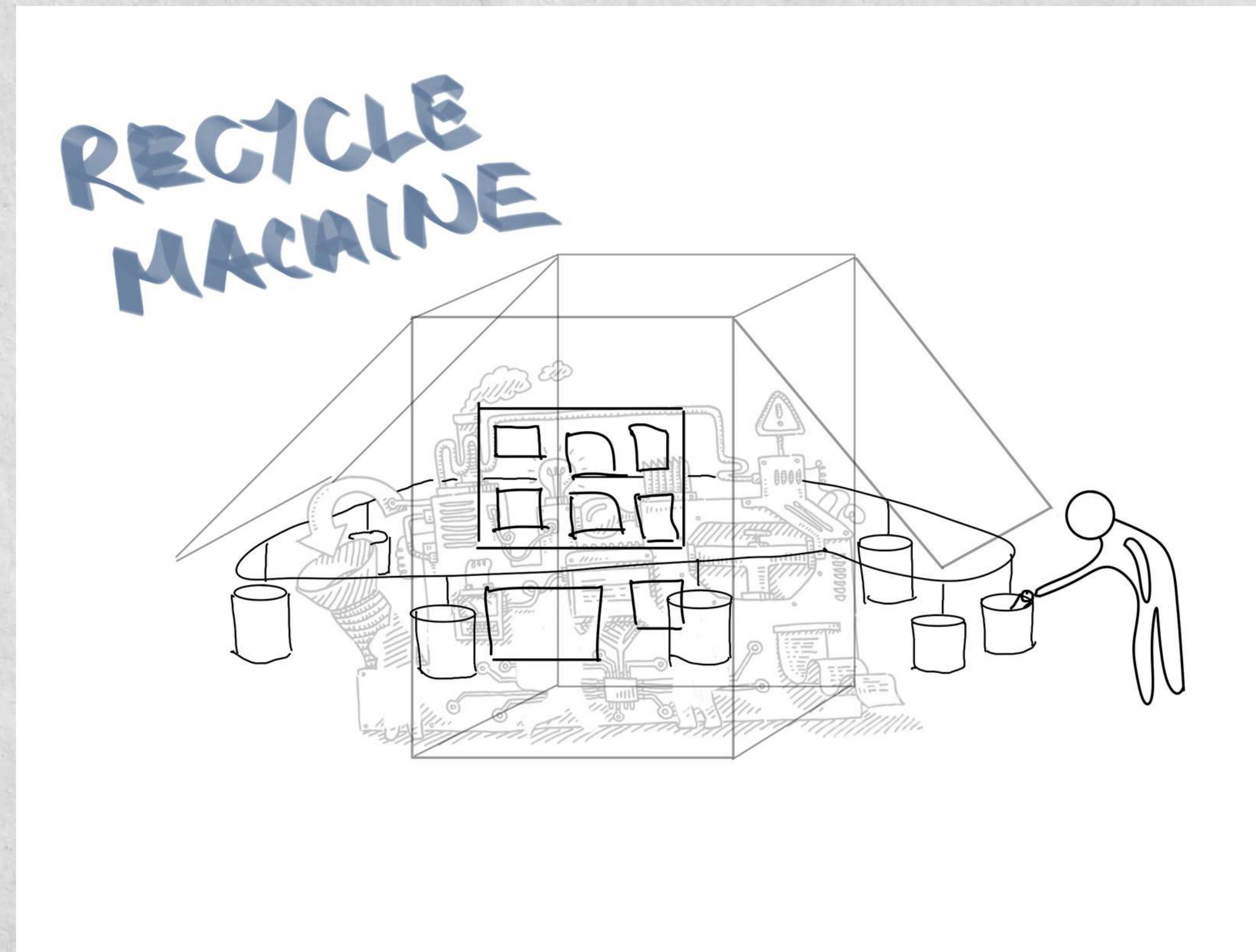
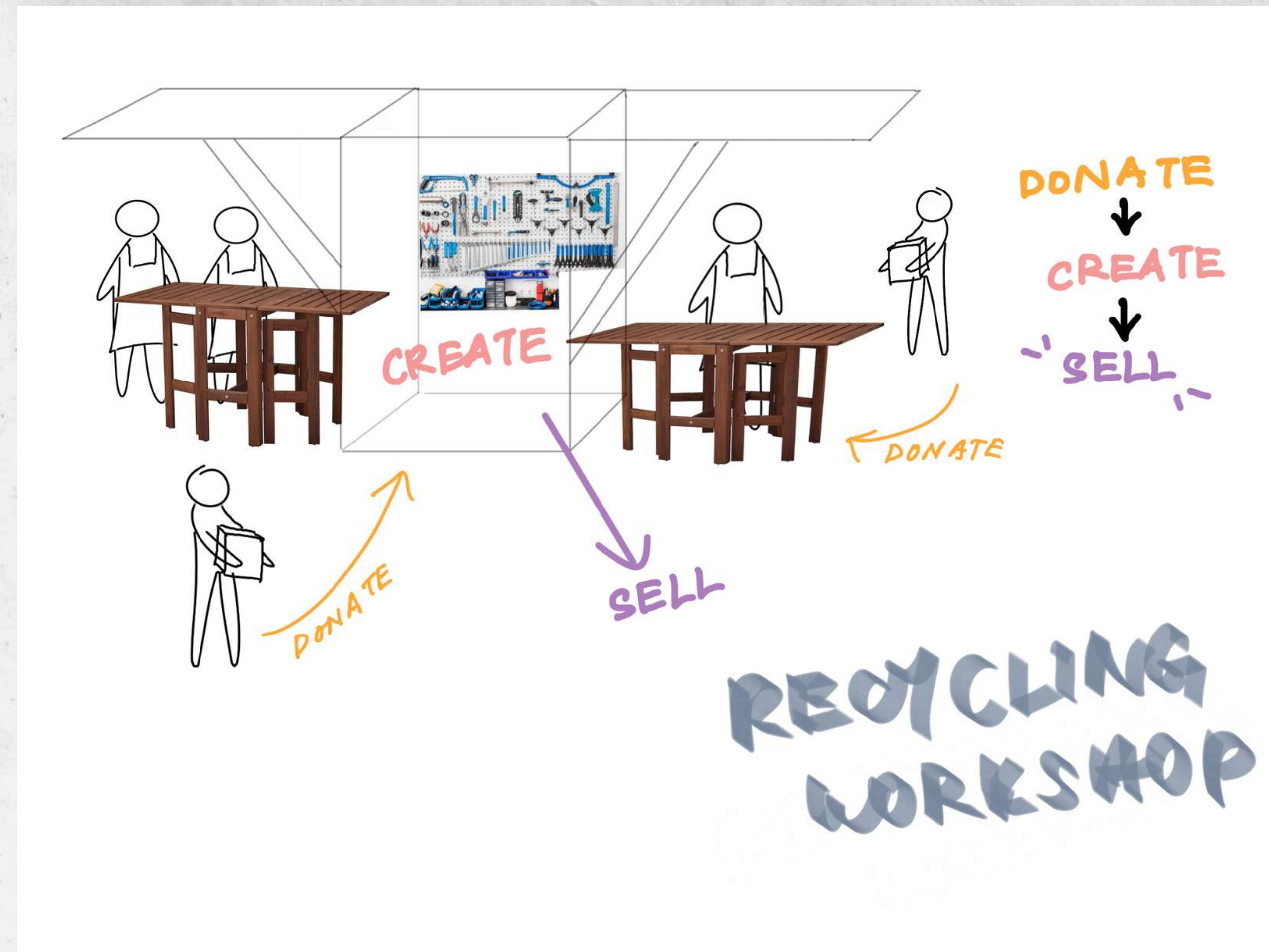




INITIAL DESIGNS.



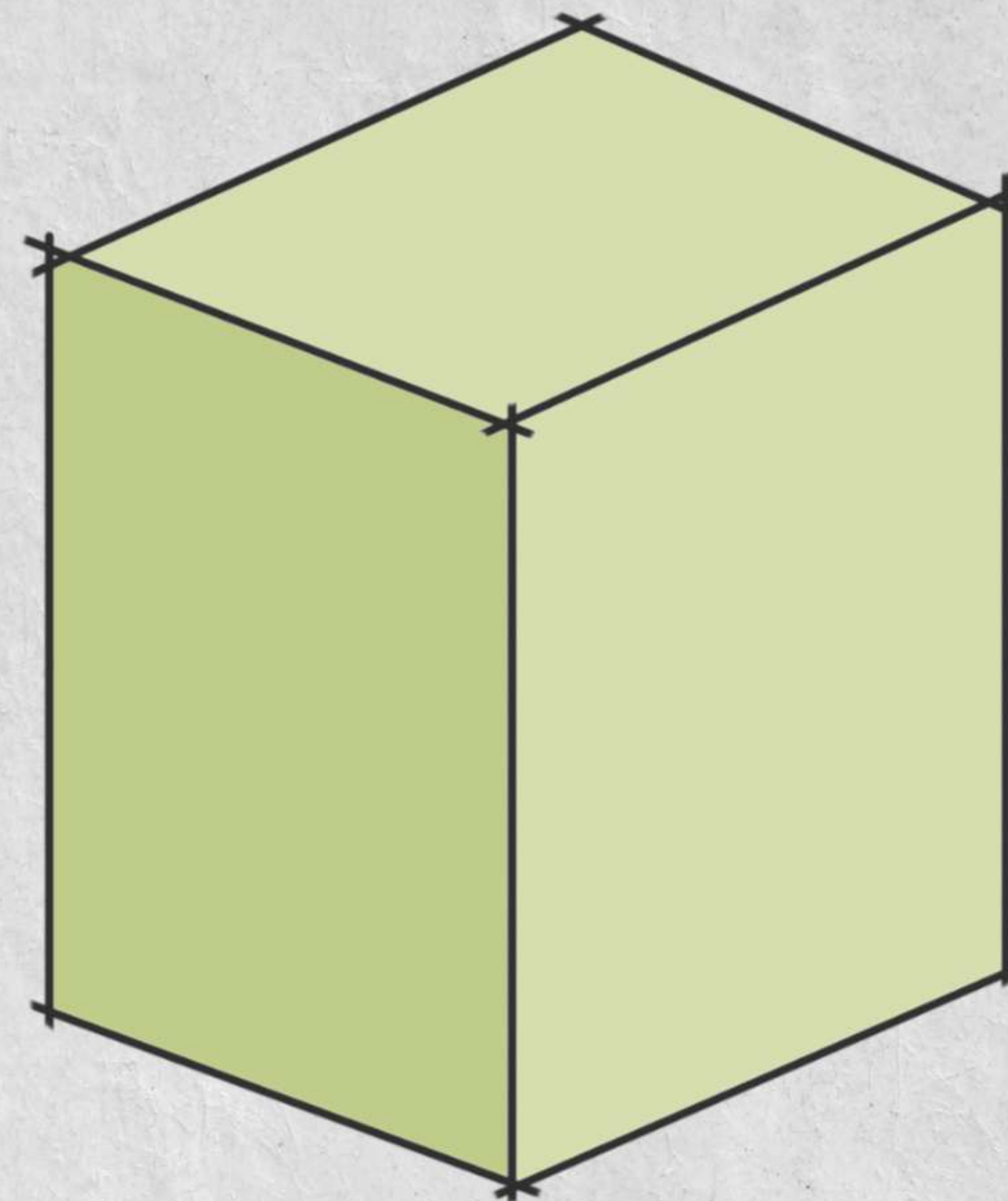
# INITIAL IDEAS



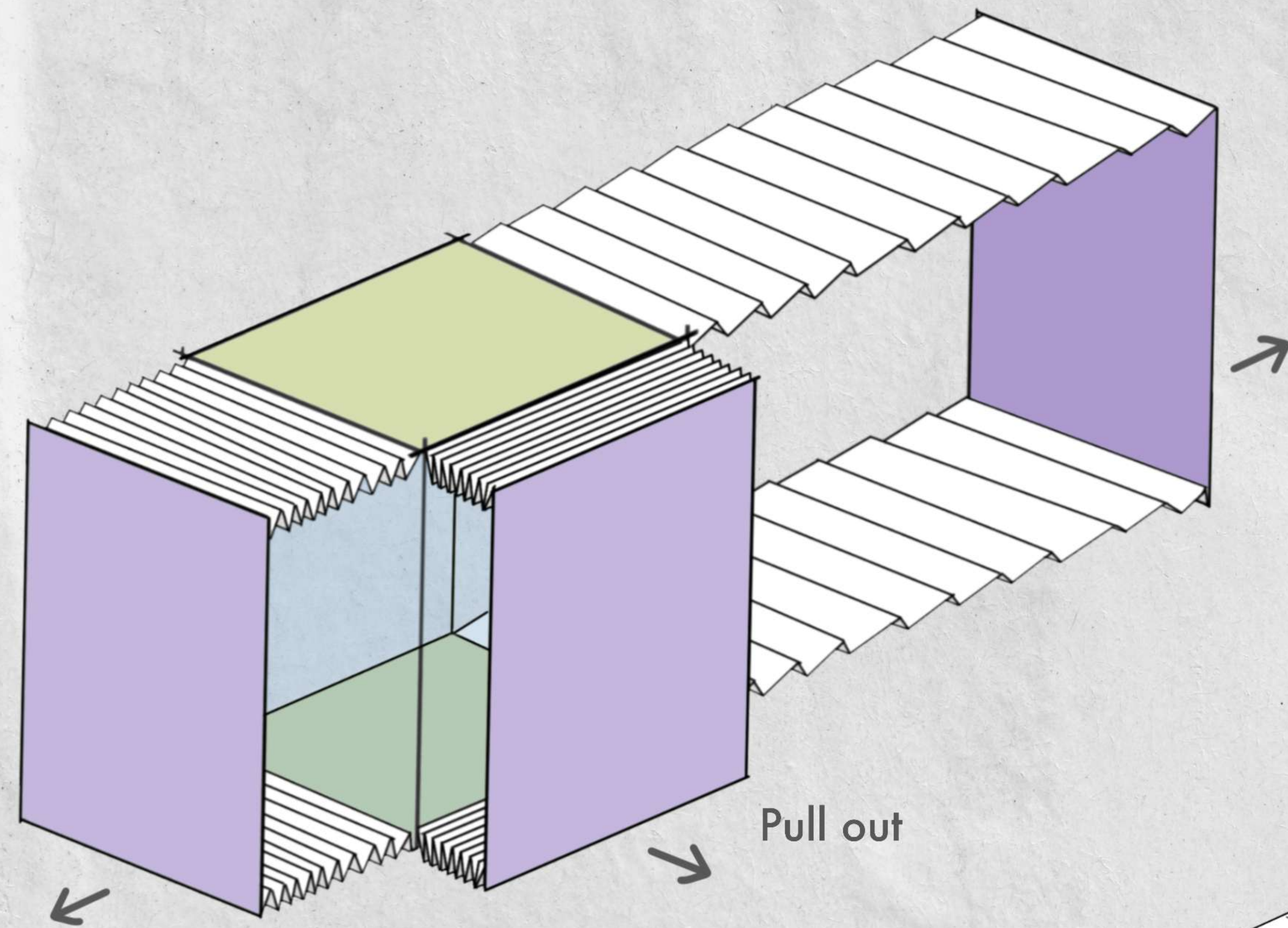


# INITIAL DESIGN

1

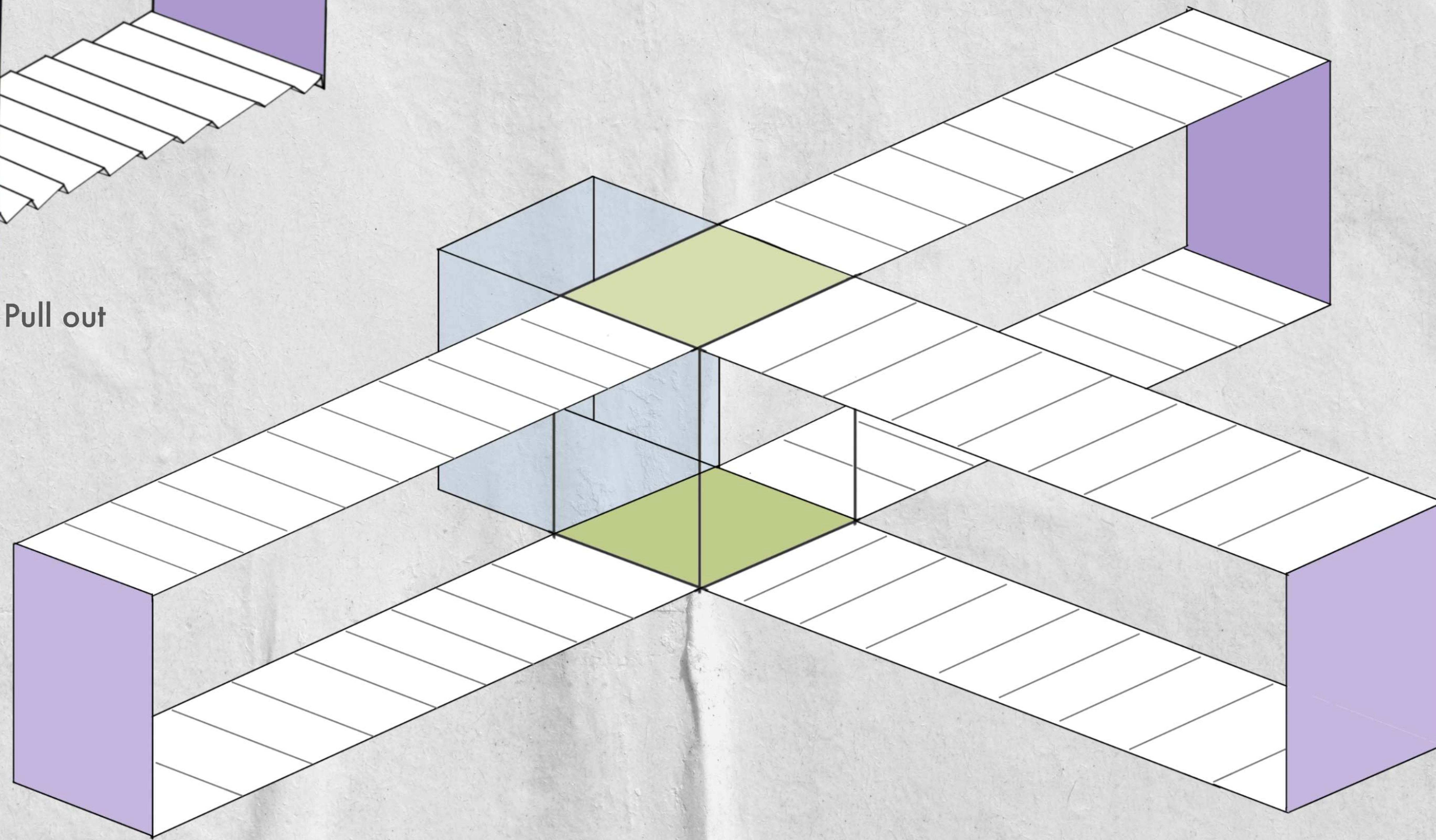


2



Pull out

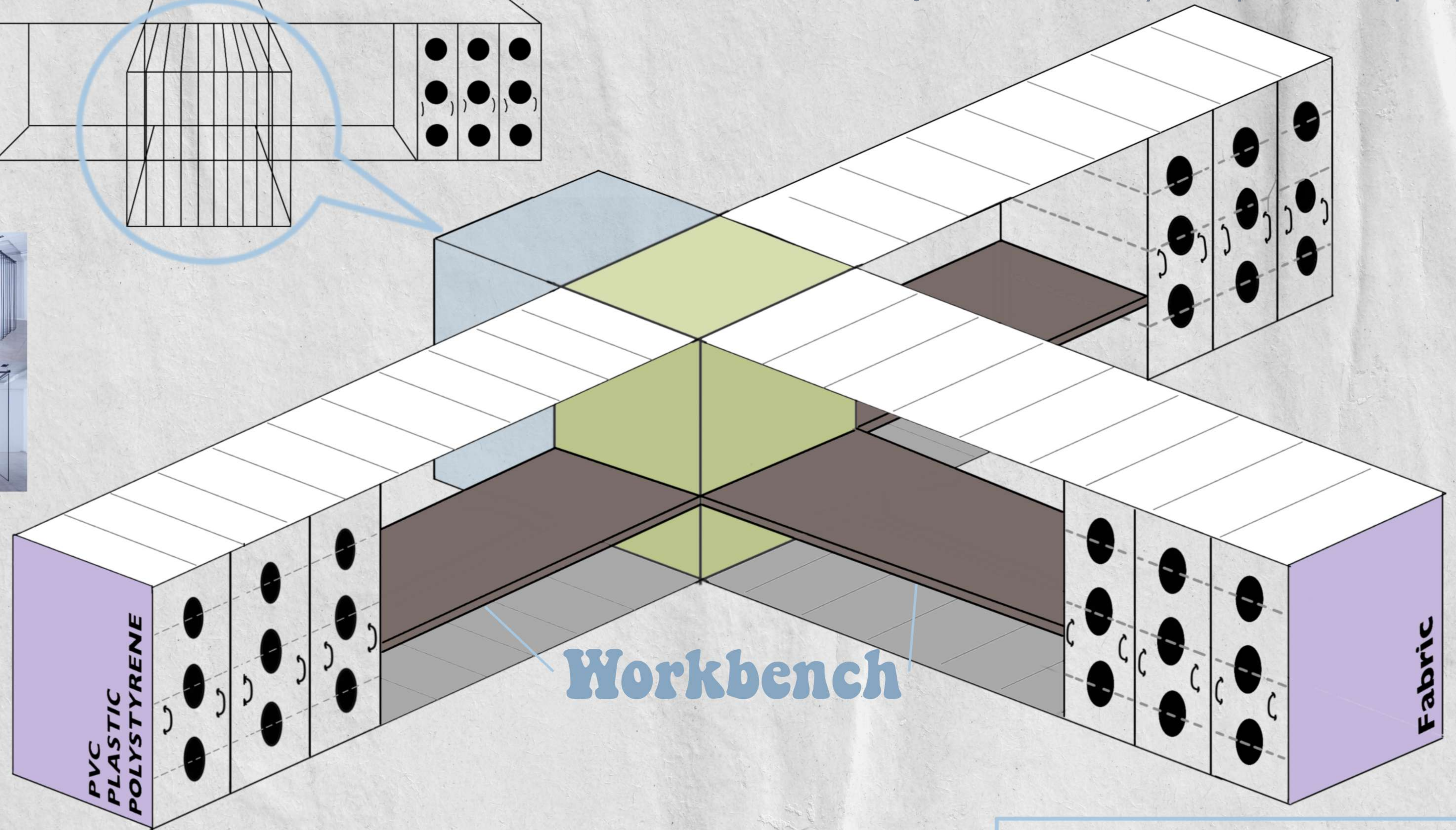
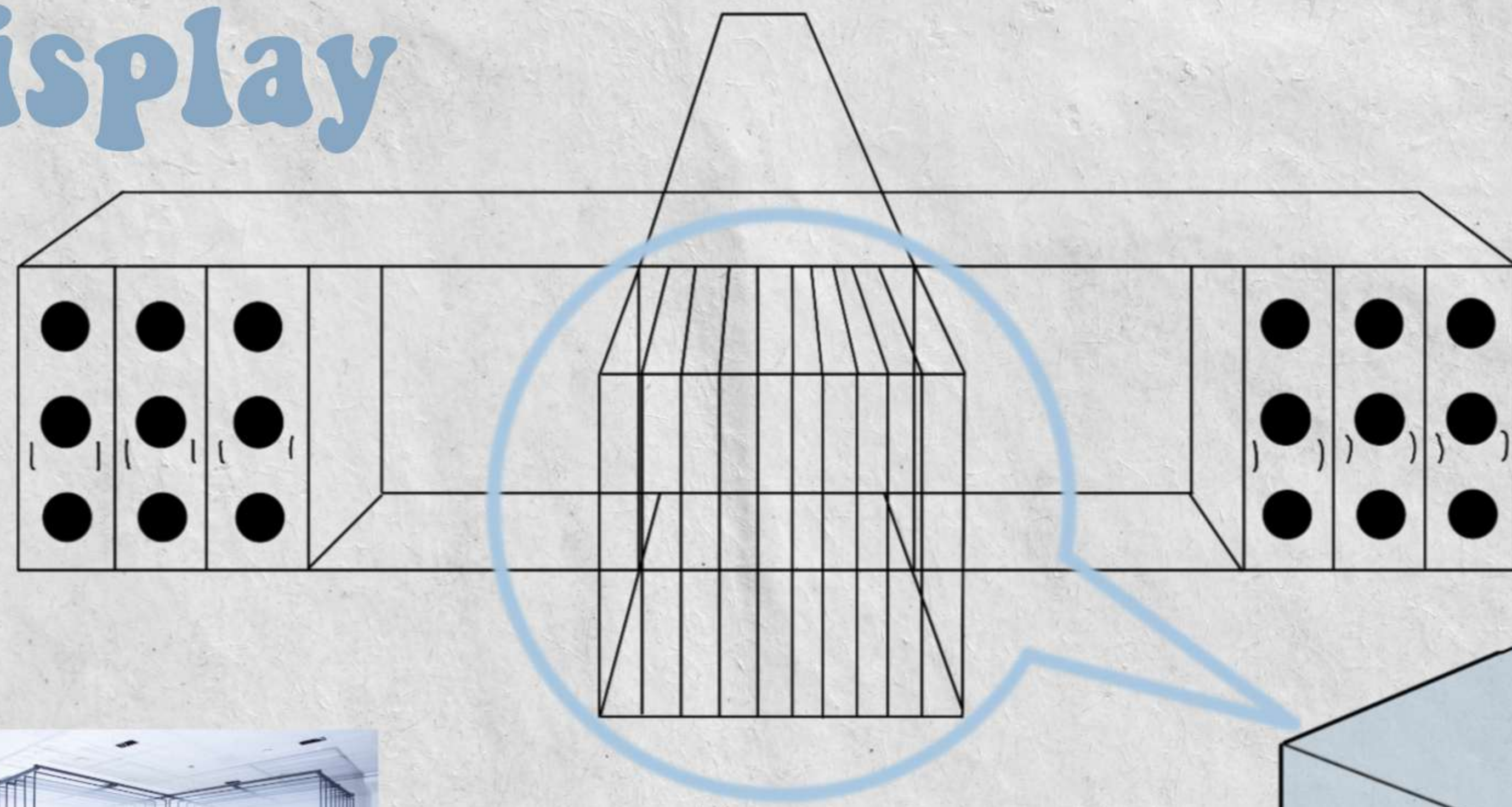
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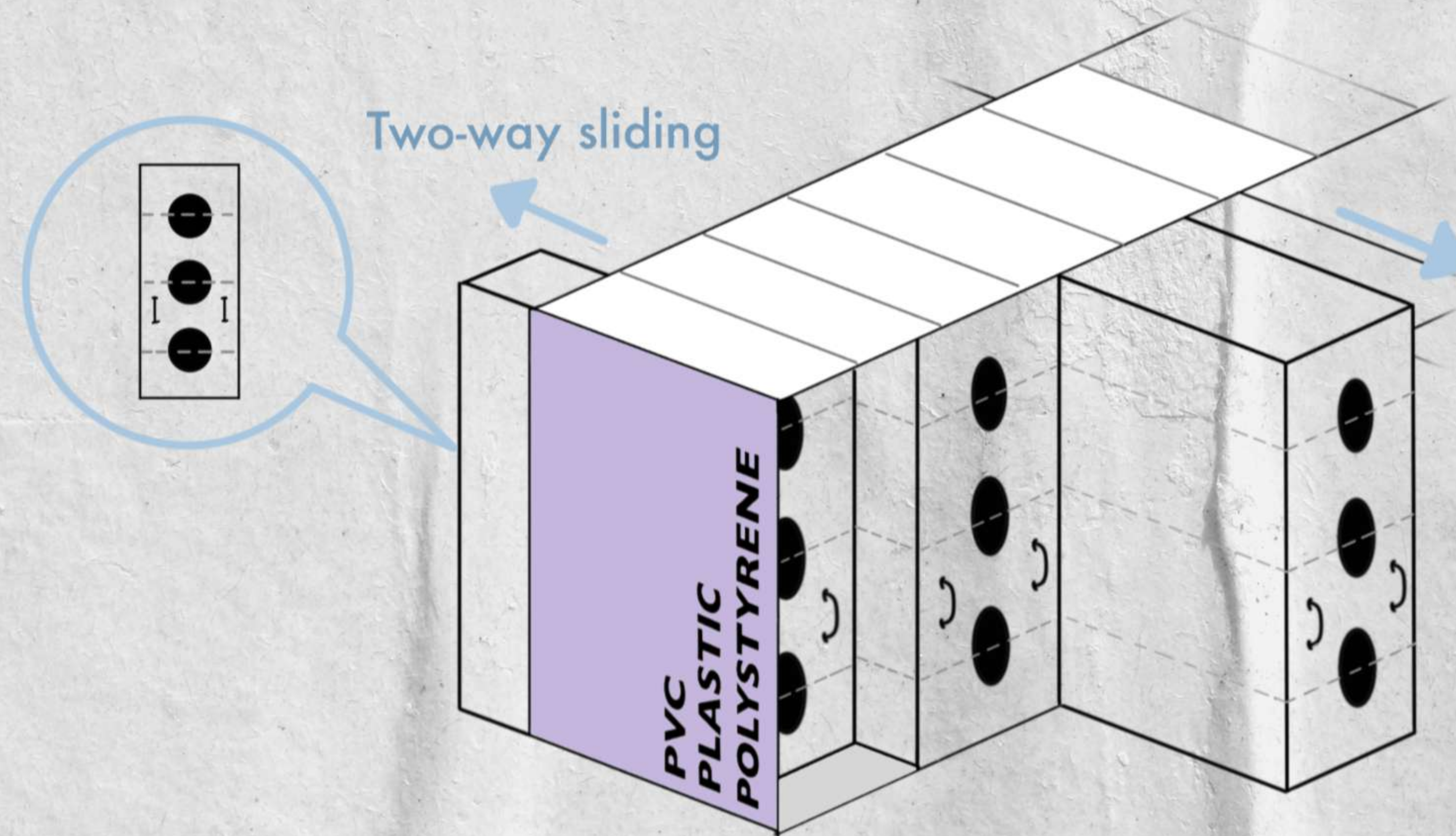


# Shoes Display

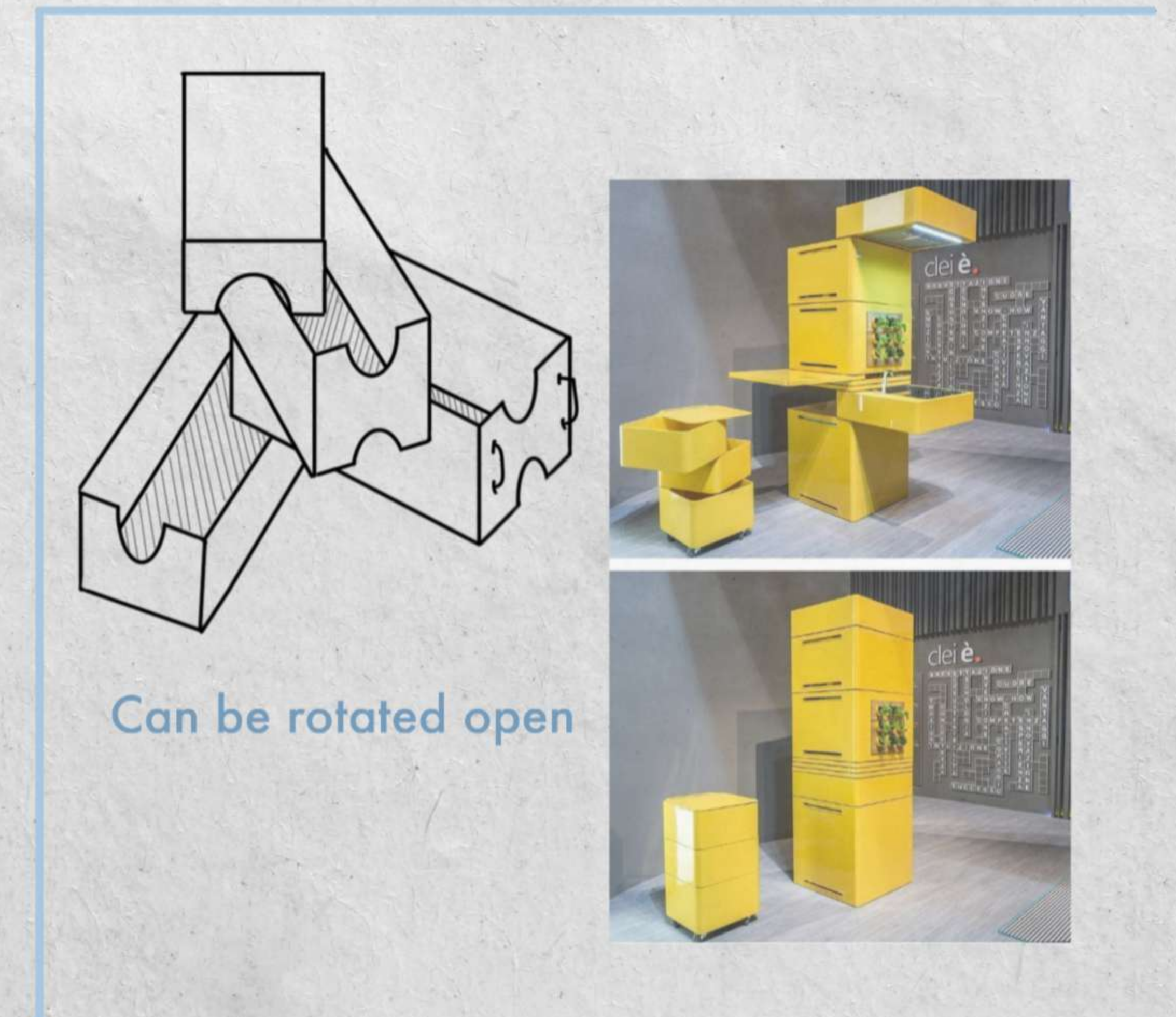
video: [https://drive.google.com/drive/folders/1-cQH3aM1ejEIHQThCWxN0yLk3Op4\\_T4I?usp=sharing](https://drive.google.com/drive/folders/1-cQH3aM1ejEIHQThCWxN0yLk3Op4_T4I?usp=sharing)



## INITIAL DESIGN



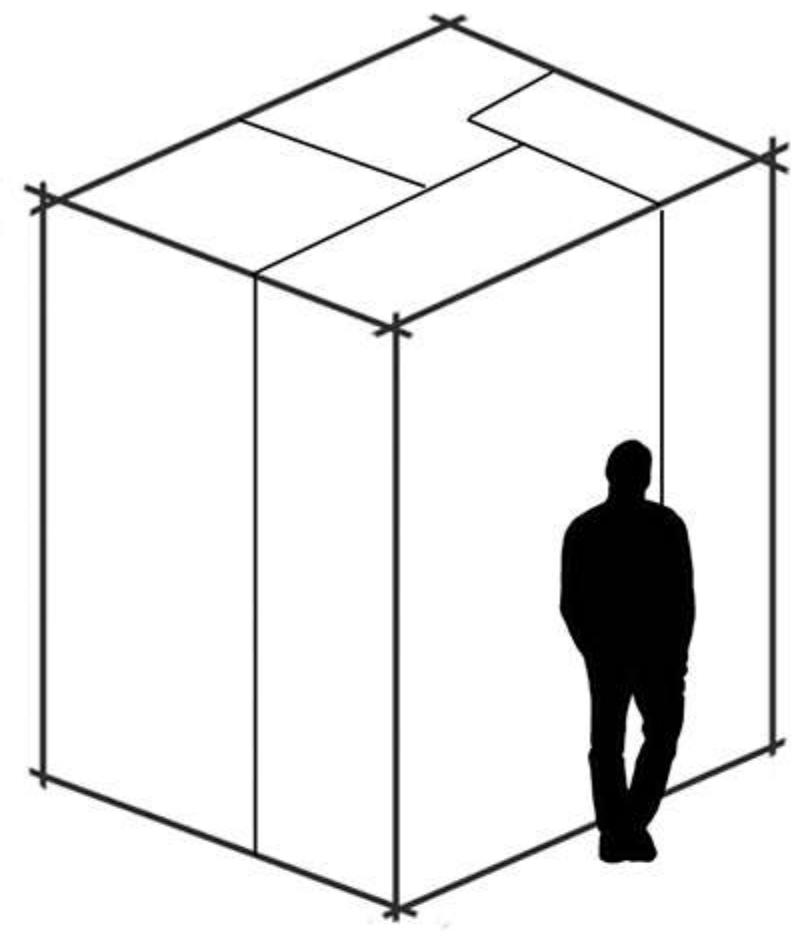
## Recycle Locker





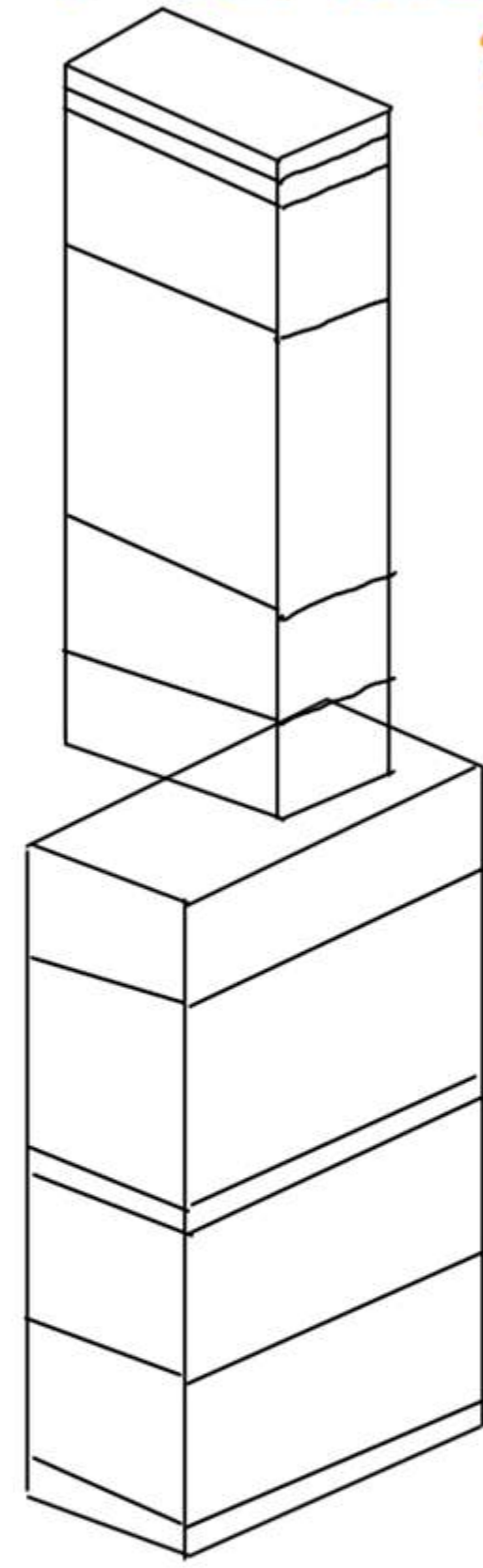
FINAL DESIGN.



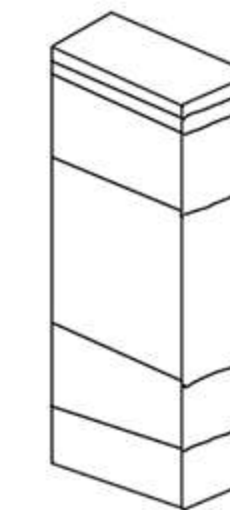
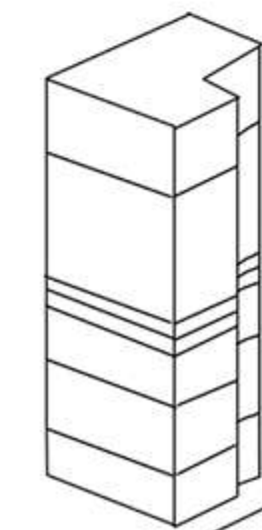
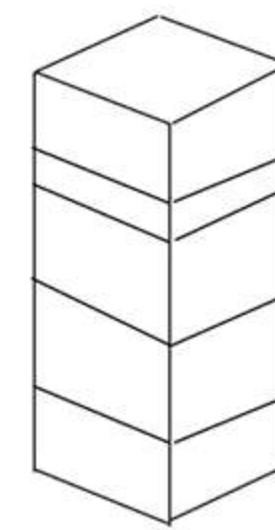
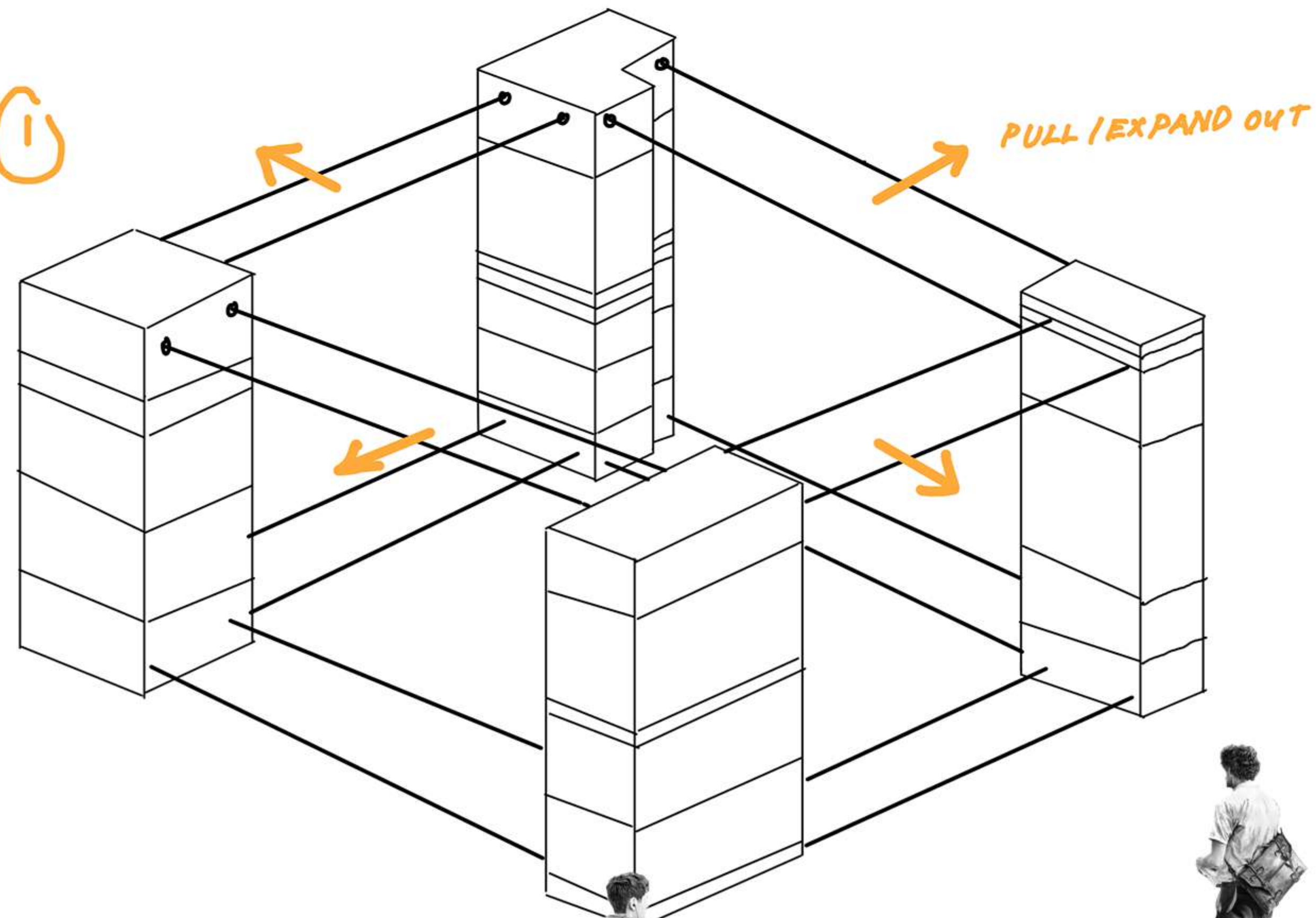


2

CAN BE DRAGGED/PULLED OUT TO RANDOM DIRECTIONS ?



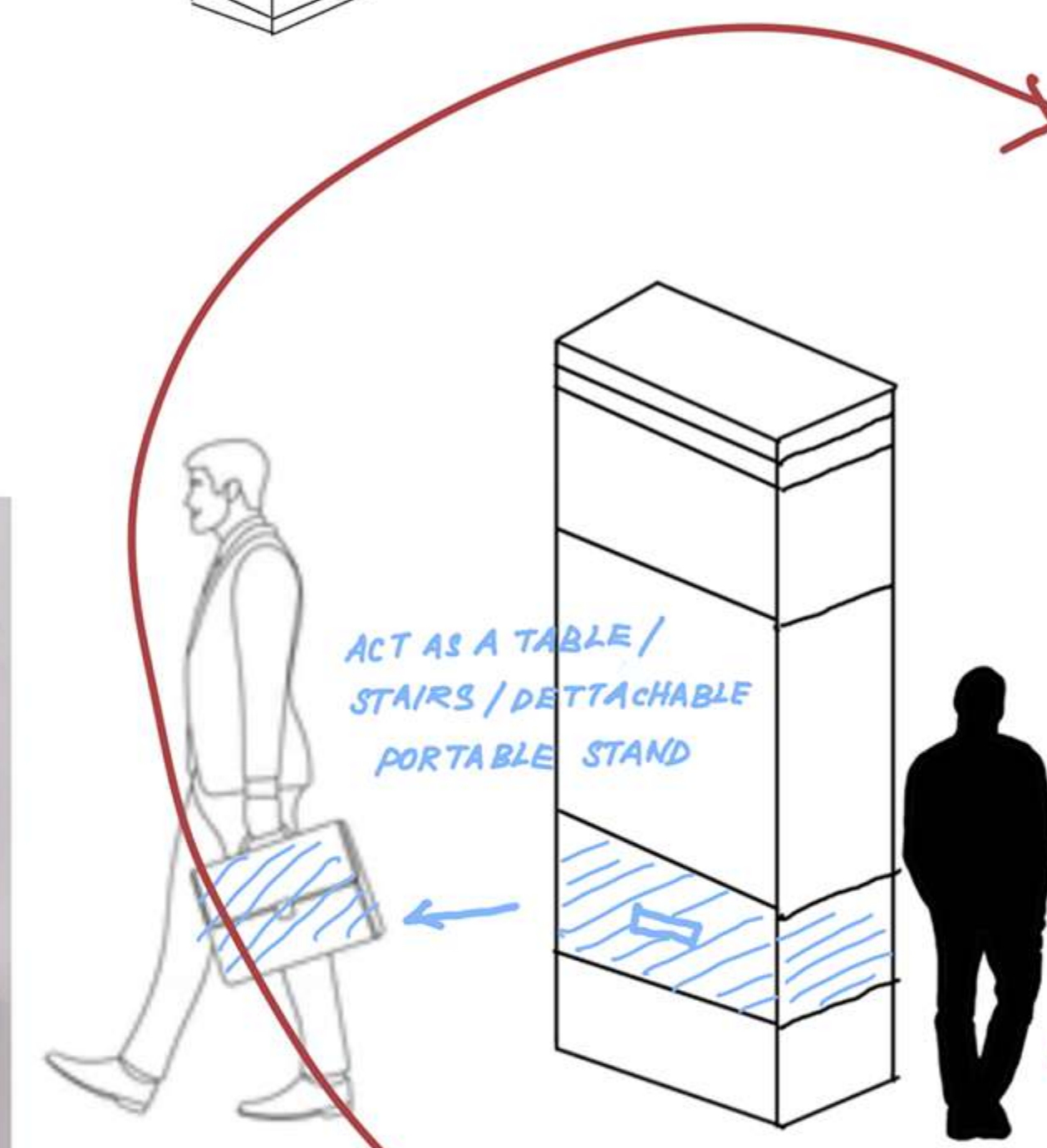
1



TO ALSO STORE RECYCLED MATERIALS

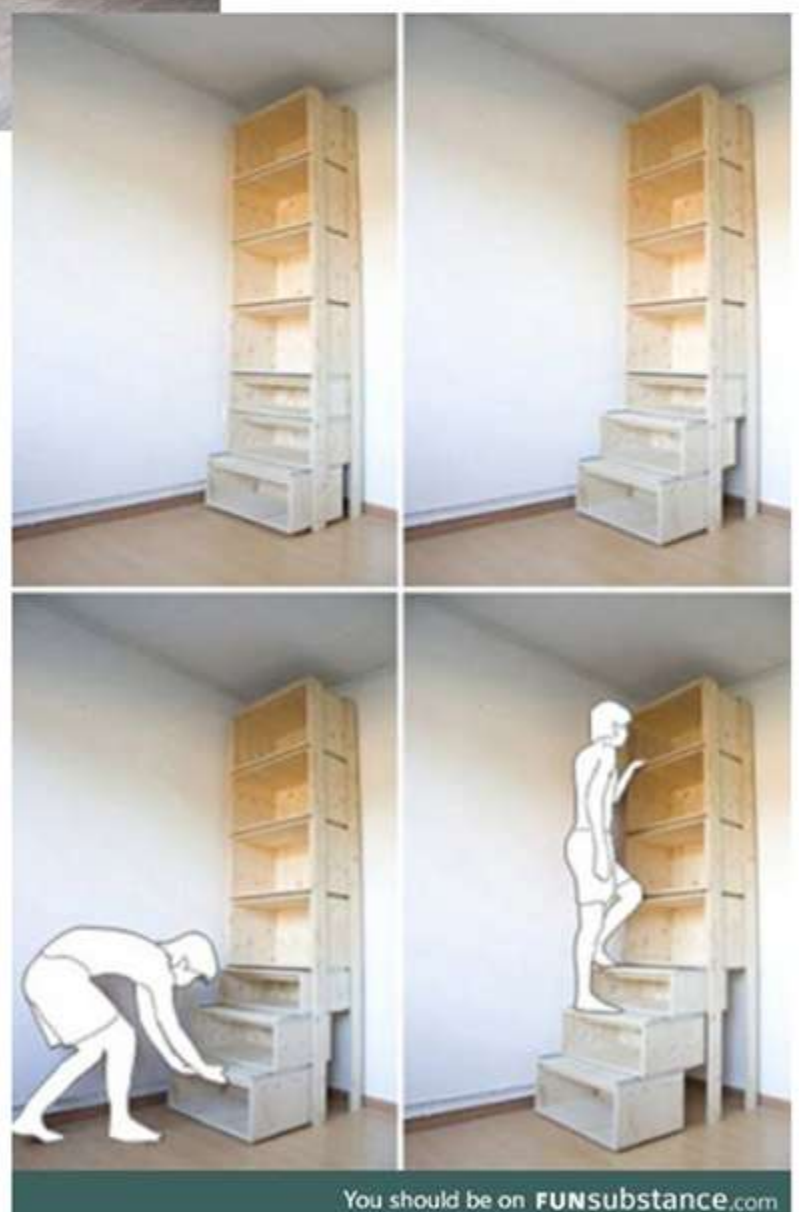


FOR SHOE COBLERS - RENTAL ?



ACT AS A TABLE / STAIRS / DETACHABLE PORTABLE STAND

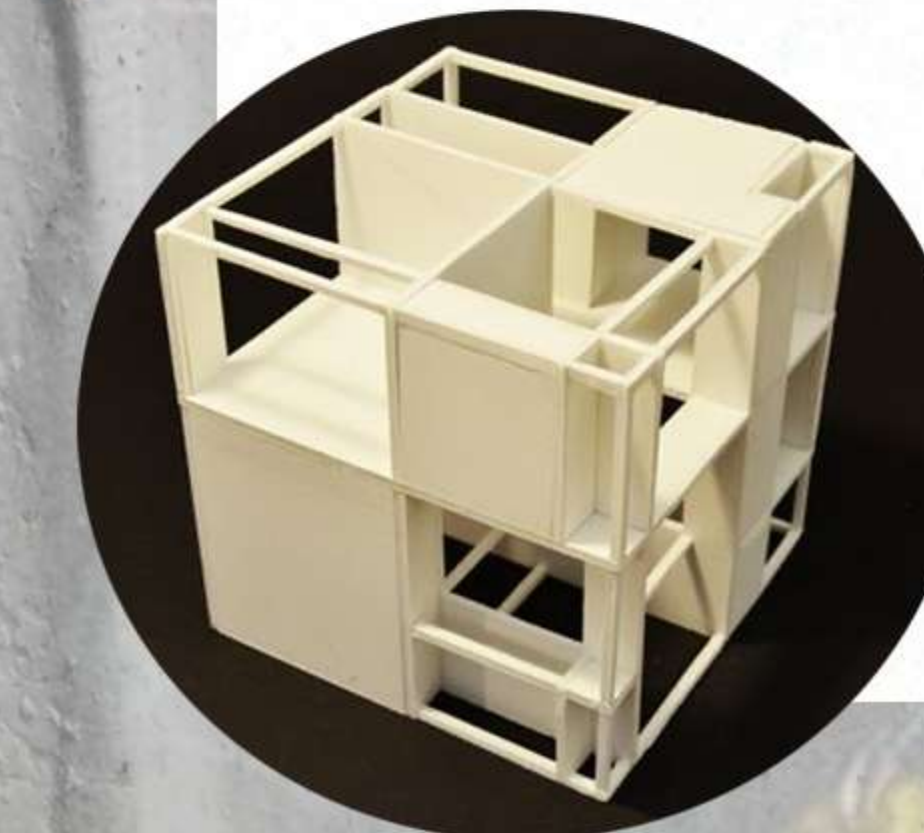
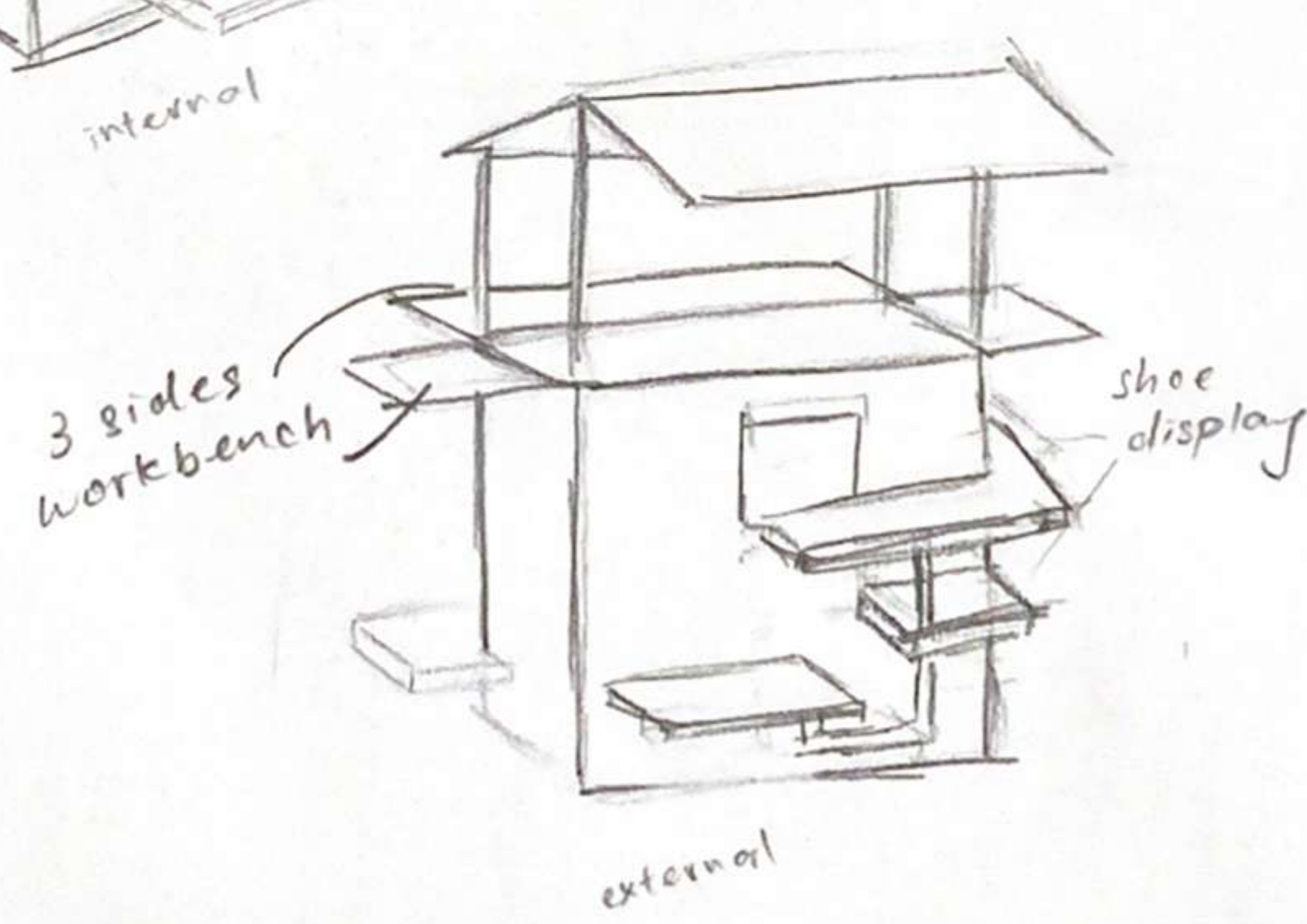
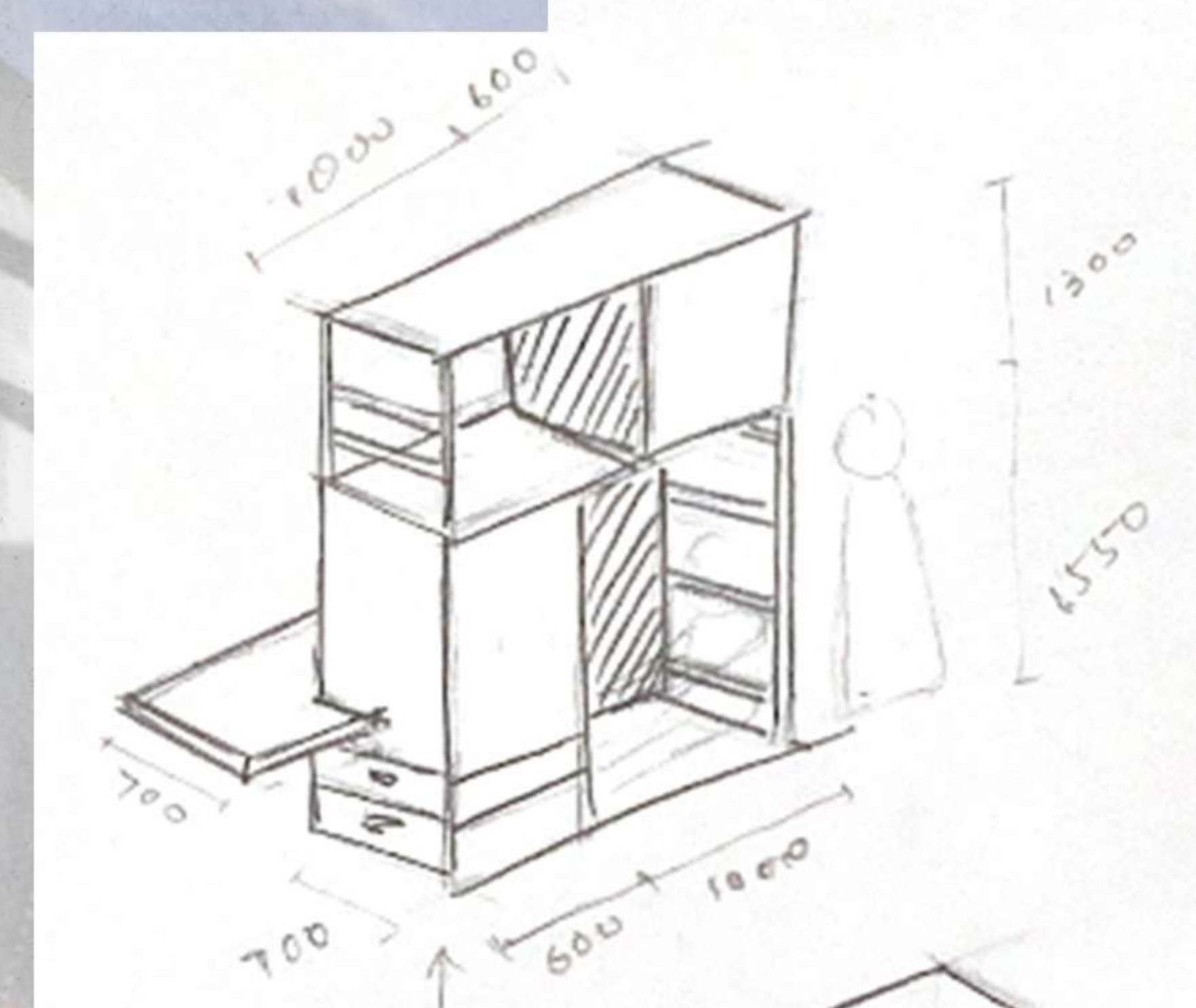
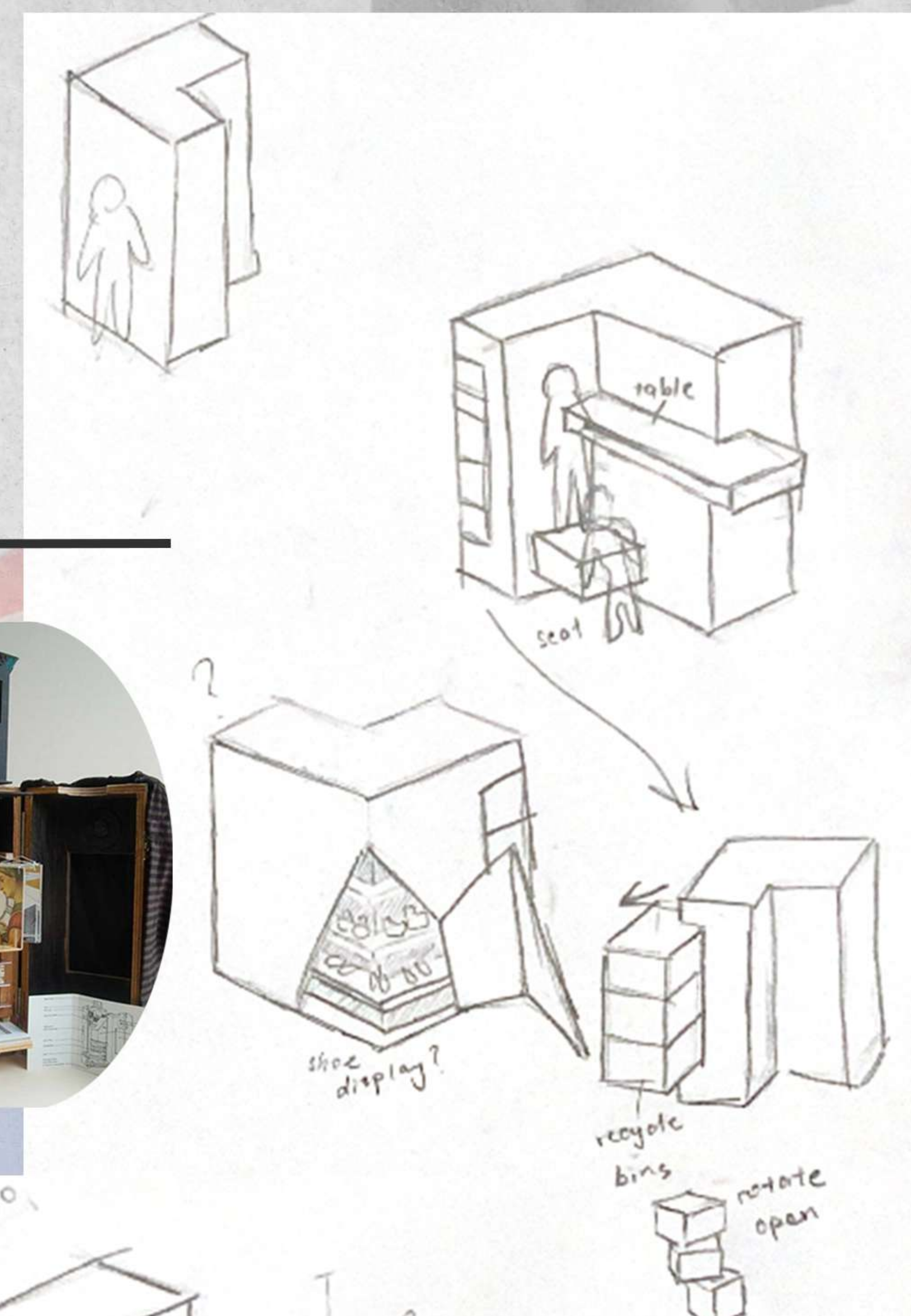
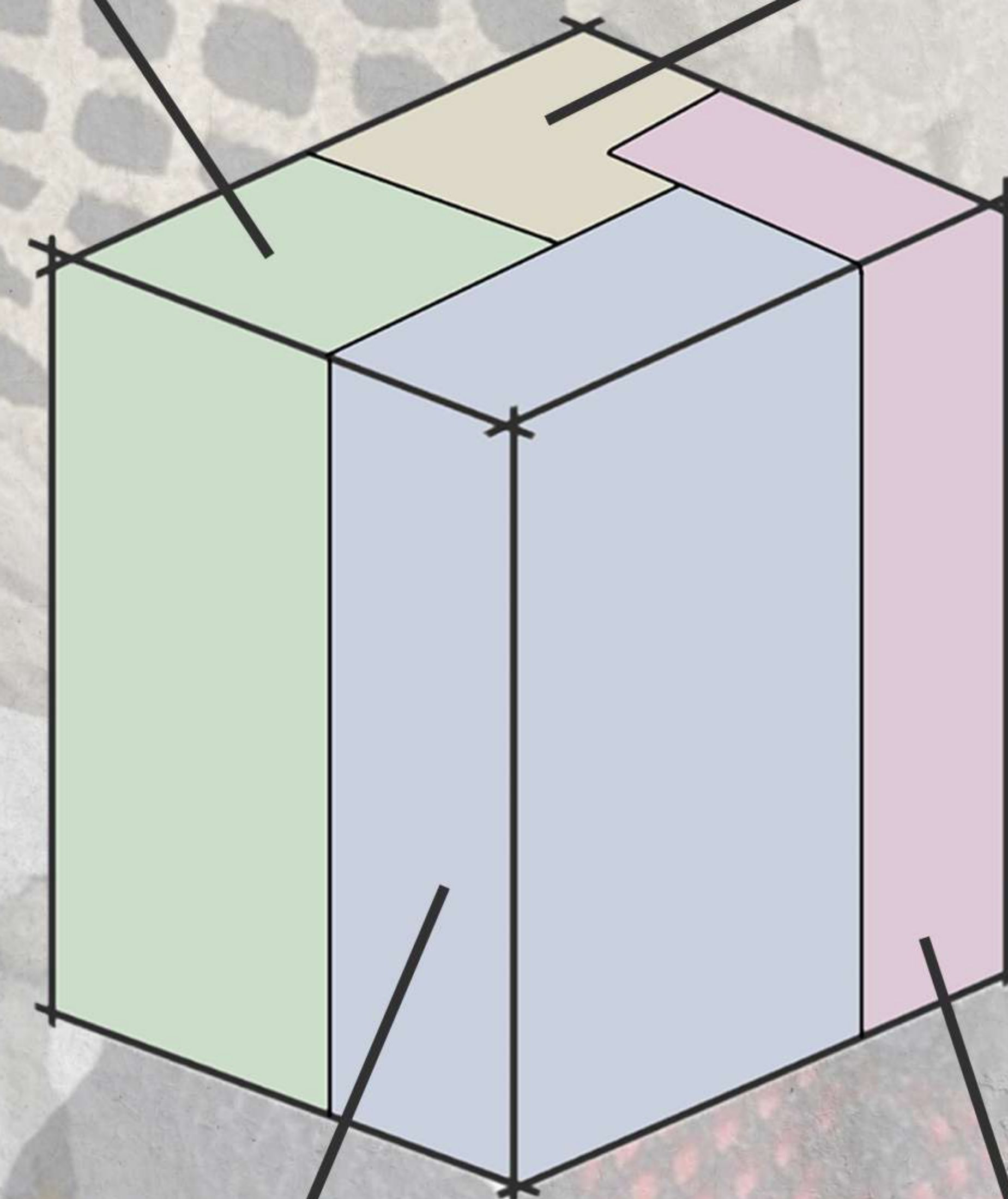
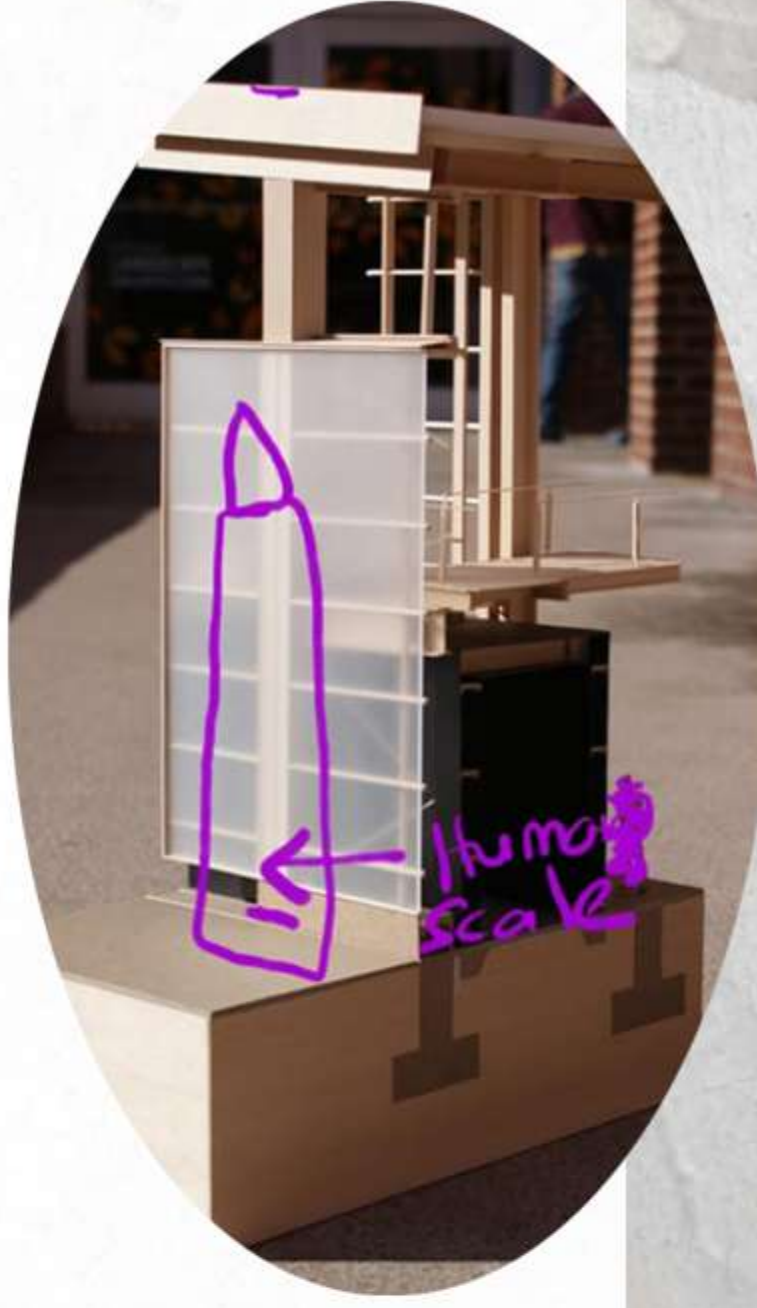
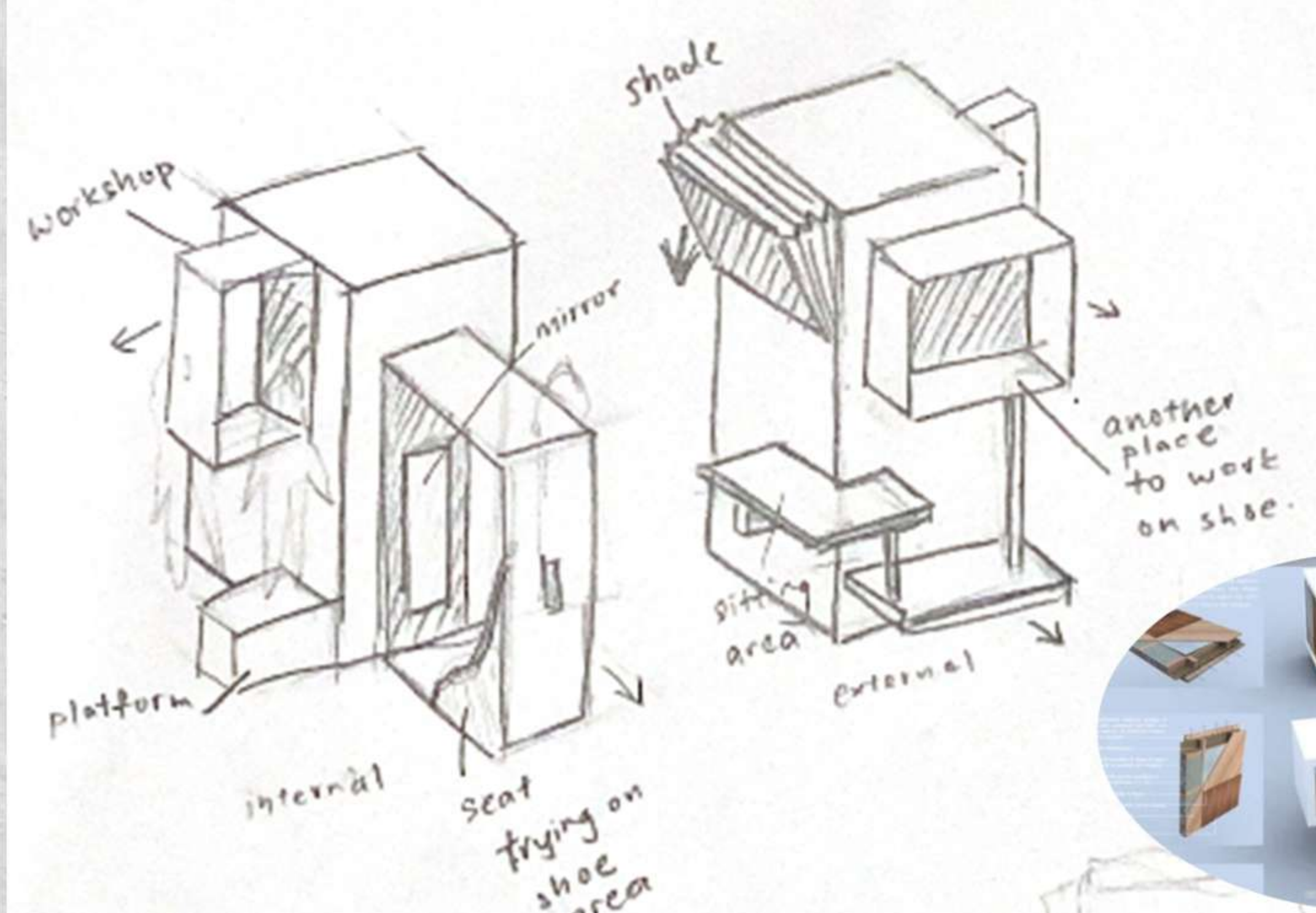
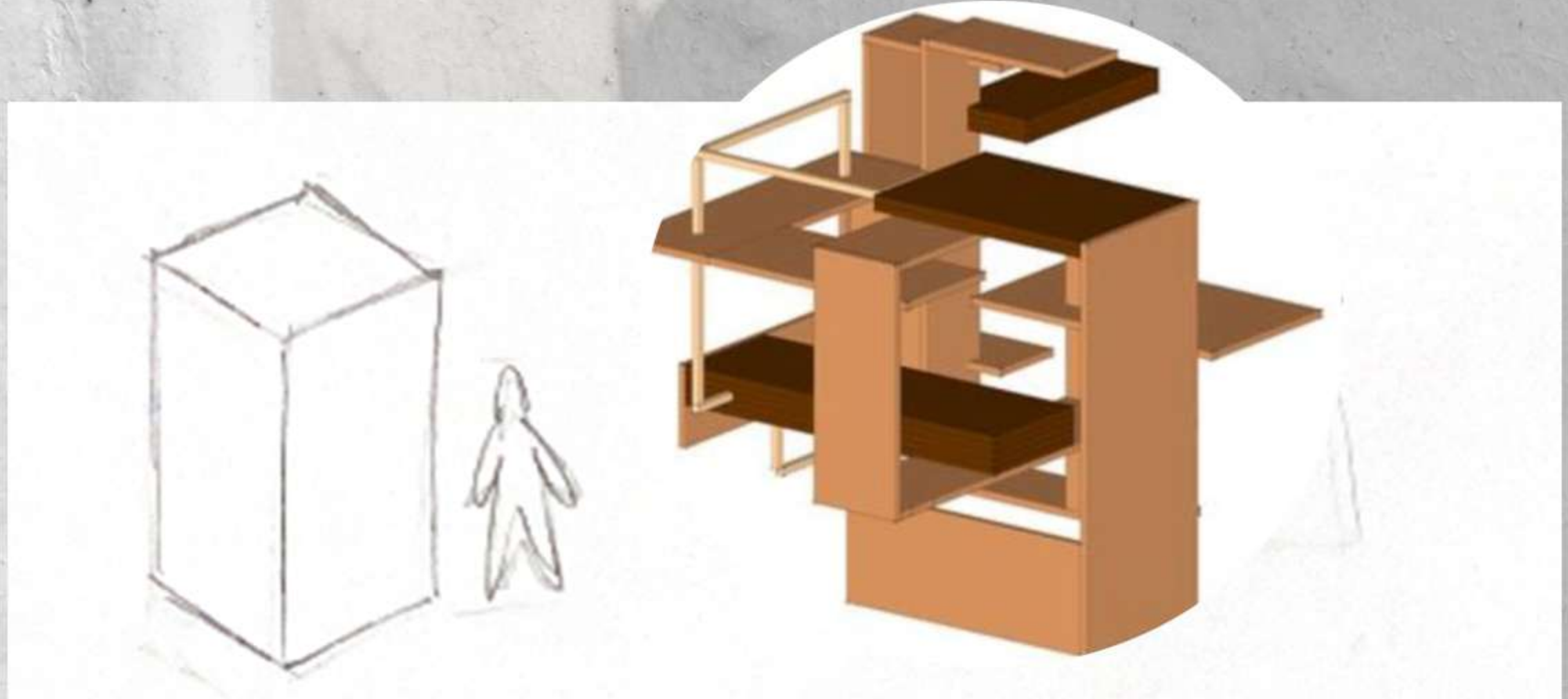
TOO TALL CAN'T REACH THE HIGHEST -> CAN ROTATE ALL THE DRAWERS AND ACT AS SPIRAL STAIRCASE



# MECHANISM



# The Capsule





# MATERIALS

## Plastic / High-density Polyethylene panel

- High melting point (would not melt easily under sun)
- Durable
- Stiff material with useful temperature capabilities
- Lightweight/ portable

## Aluminium sheets

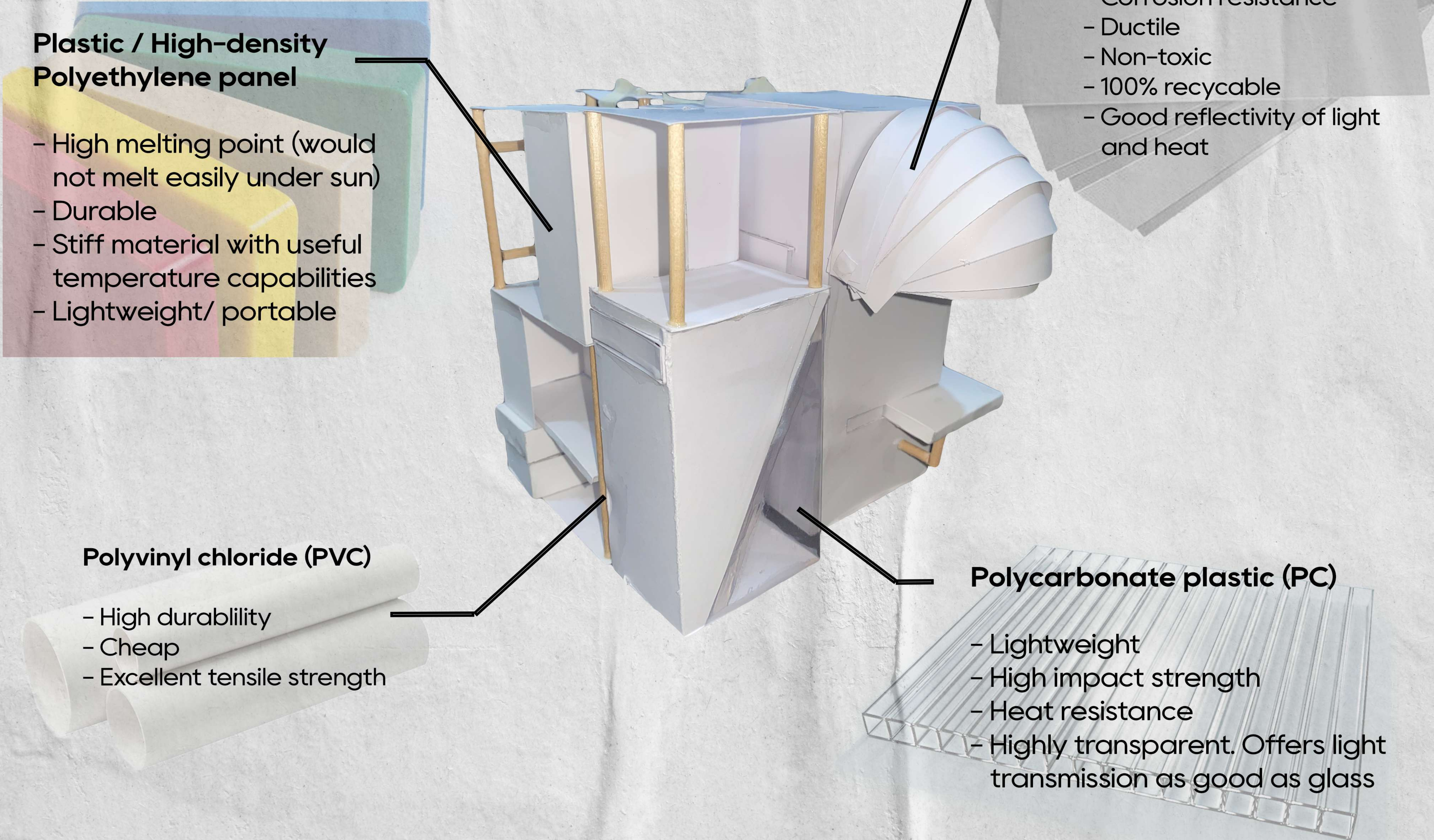
- Light weight
- Corrosion resistance
- Ductile
- Non-toxic
- 100% recyclable
- Good reflectivity of light and heat

## Polyvinyl chloride (PVC)

- High durability
- Cheap
- Excellent tensile strength

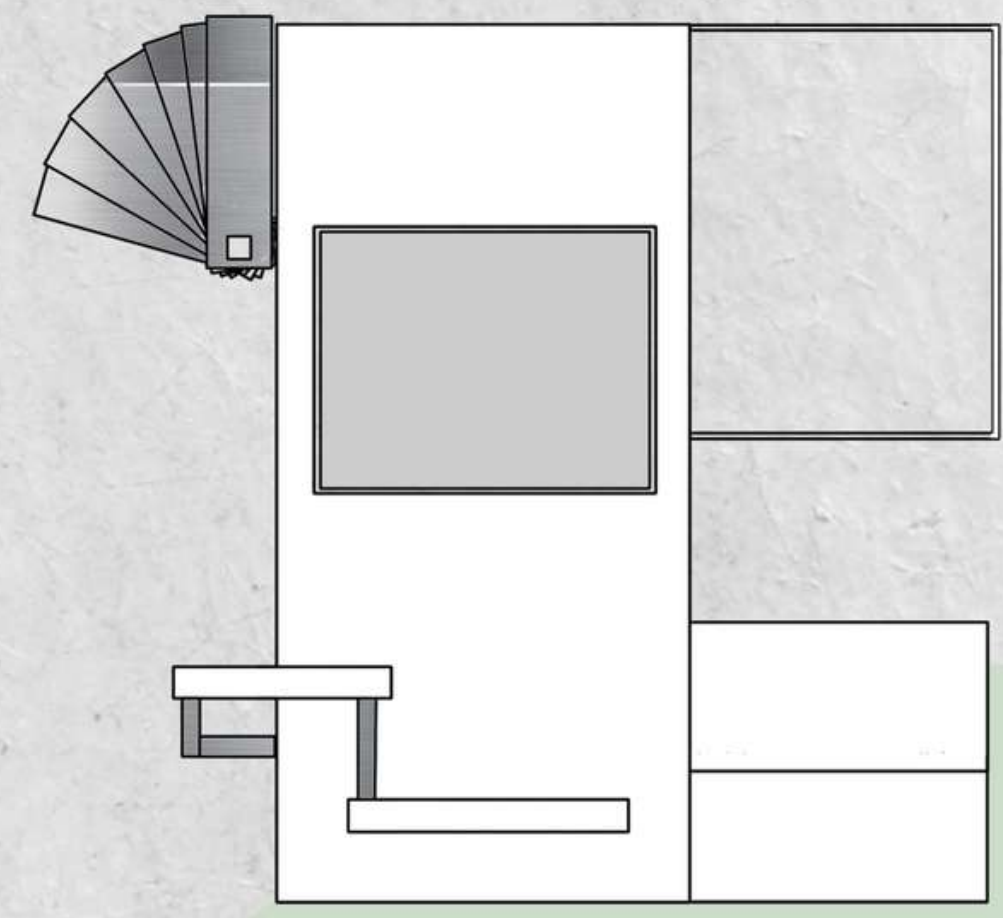
## Polycarbonate plastic (PC)

- Lightweight
- High impact strength
- Heat resistance
- Highly transparent. Offers light transmission as good as glass

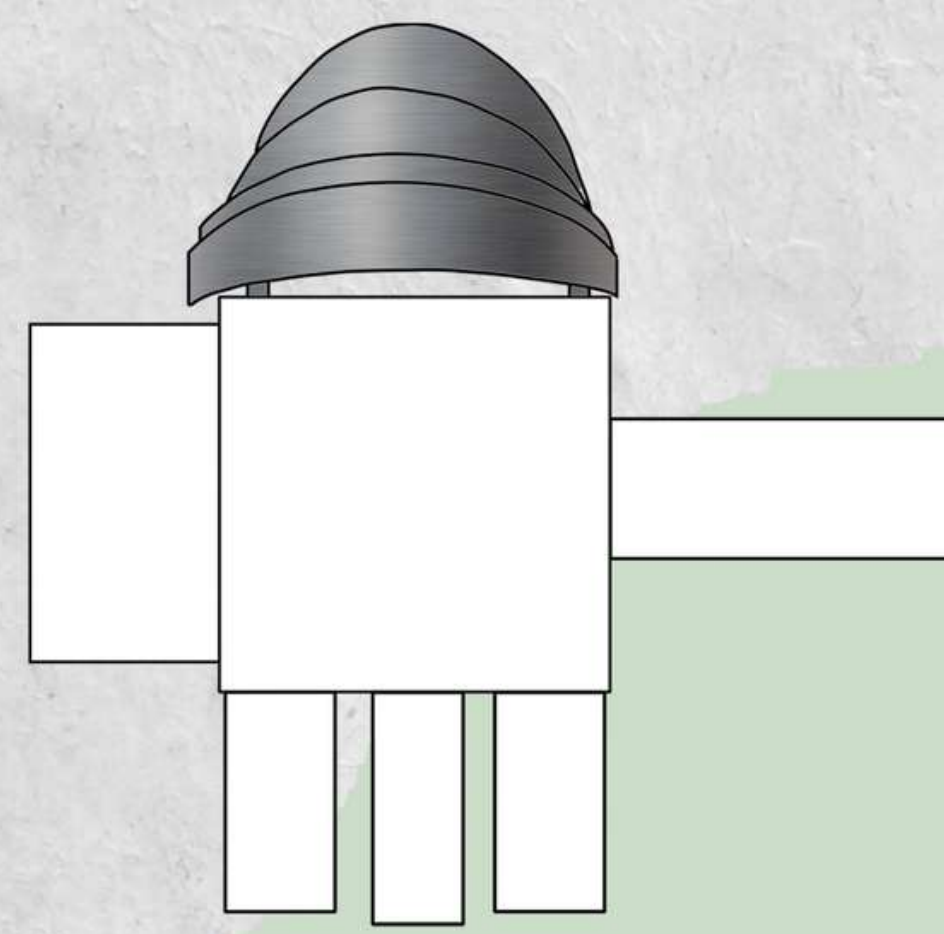




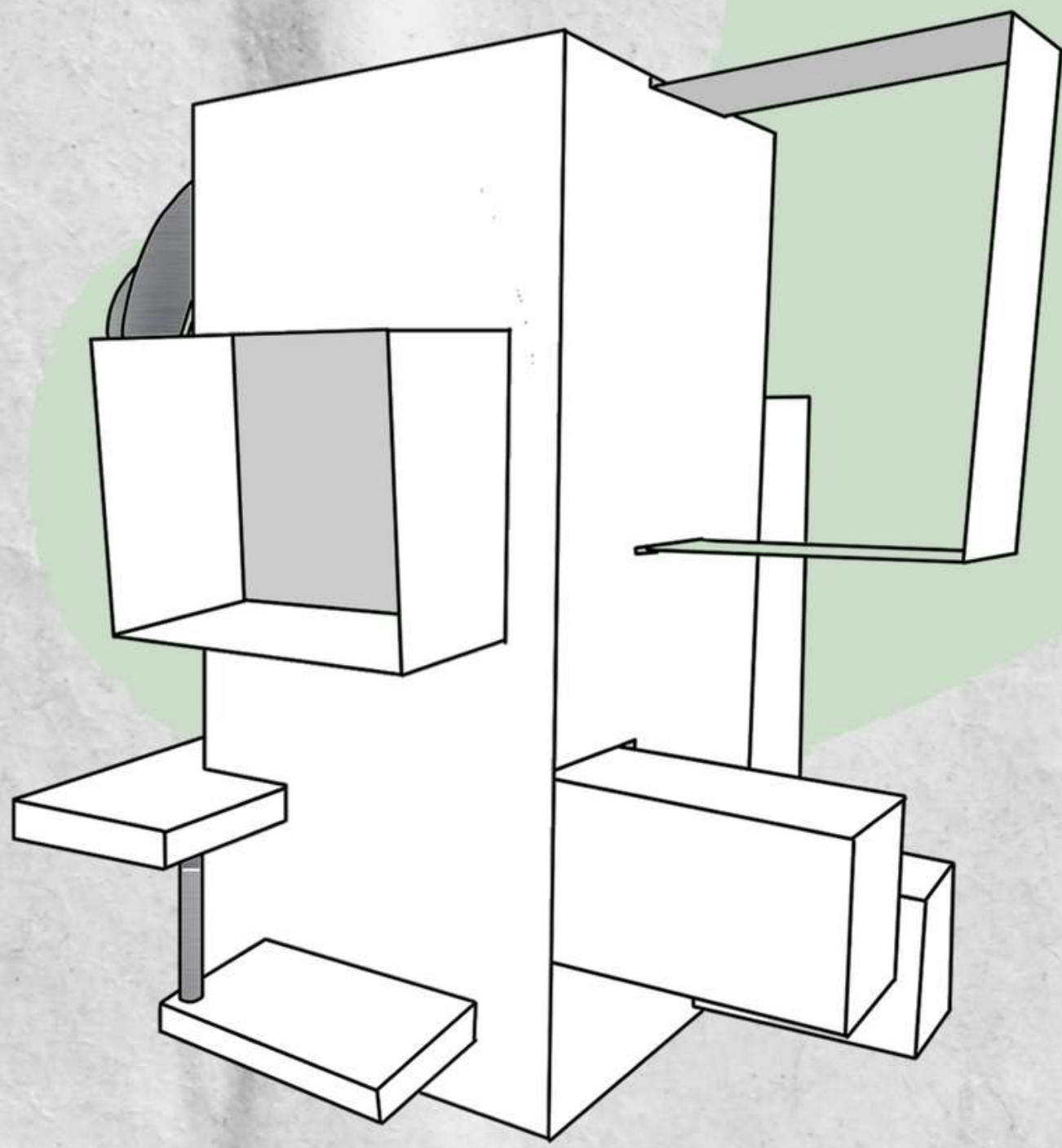
# Model 1



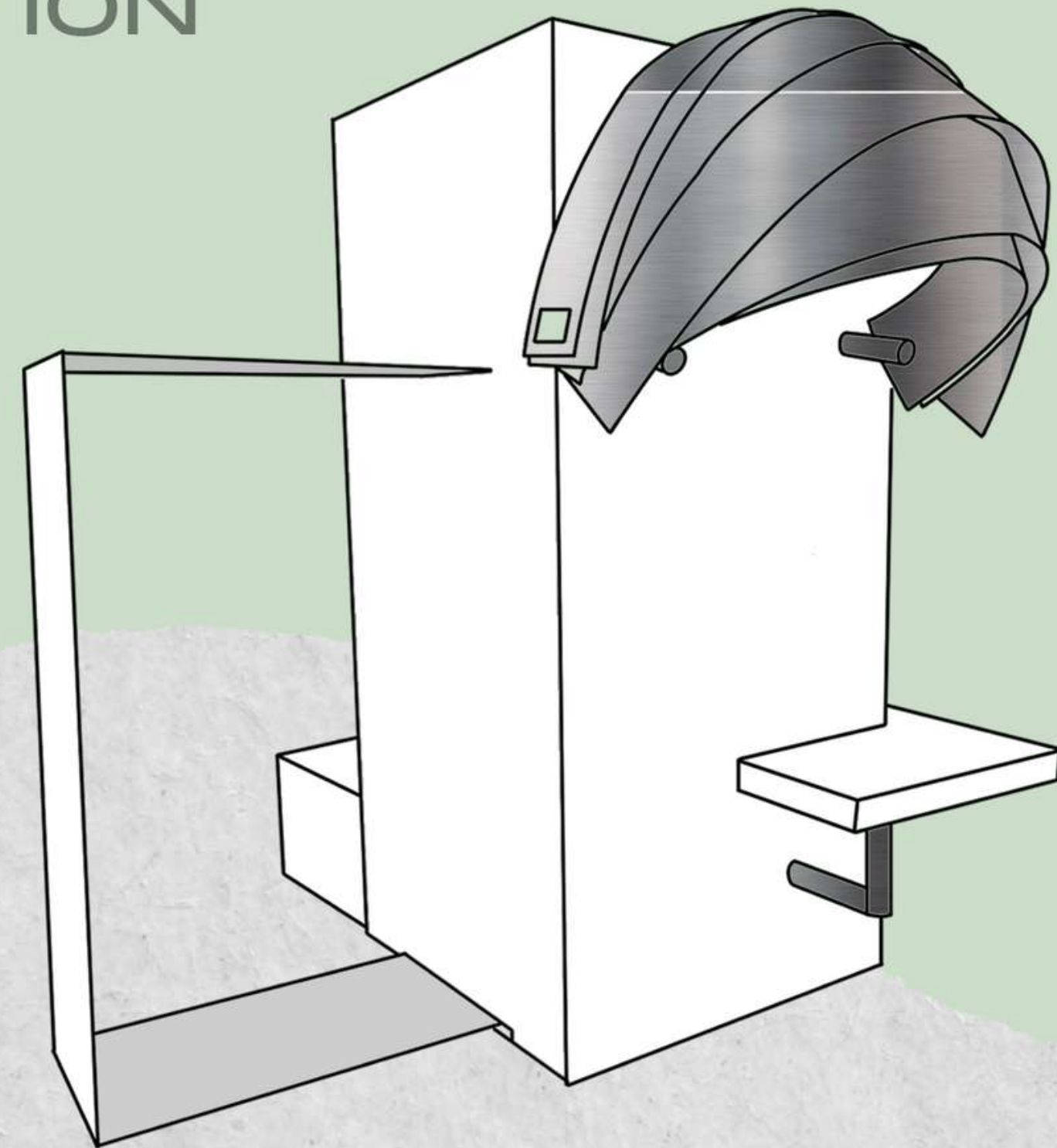
ELEVATION



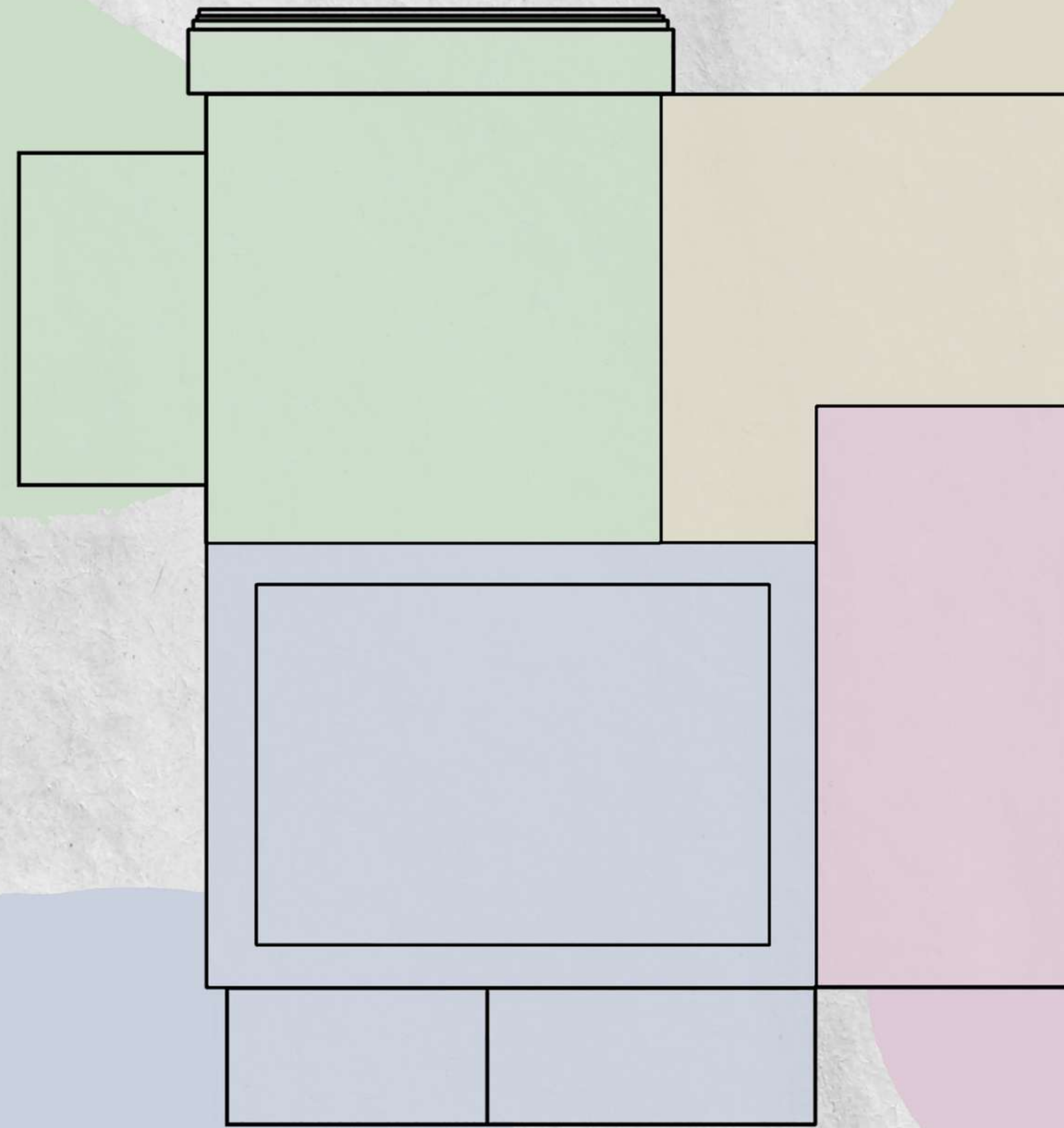
PLAN



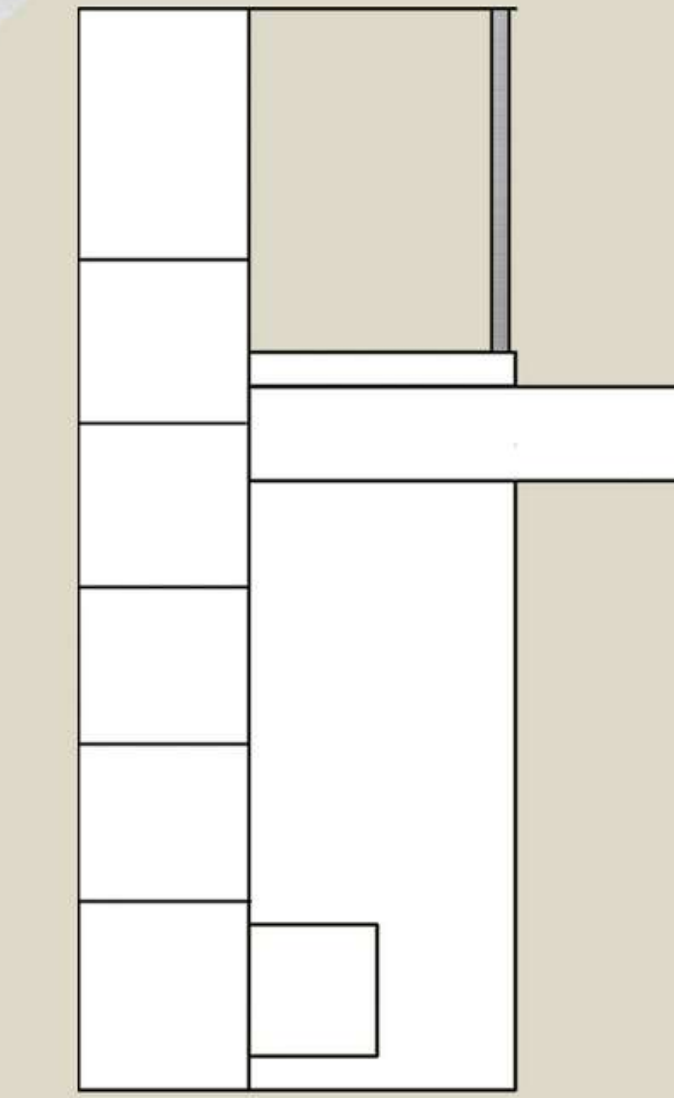
AXONOMETRIC 1



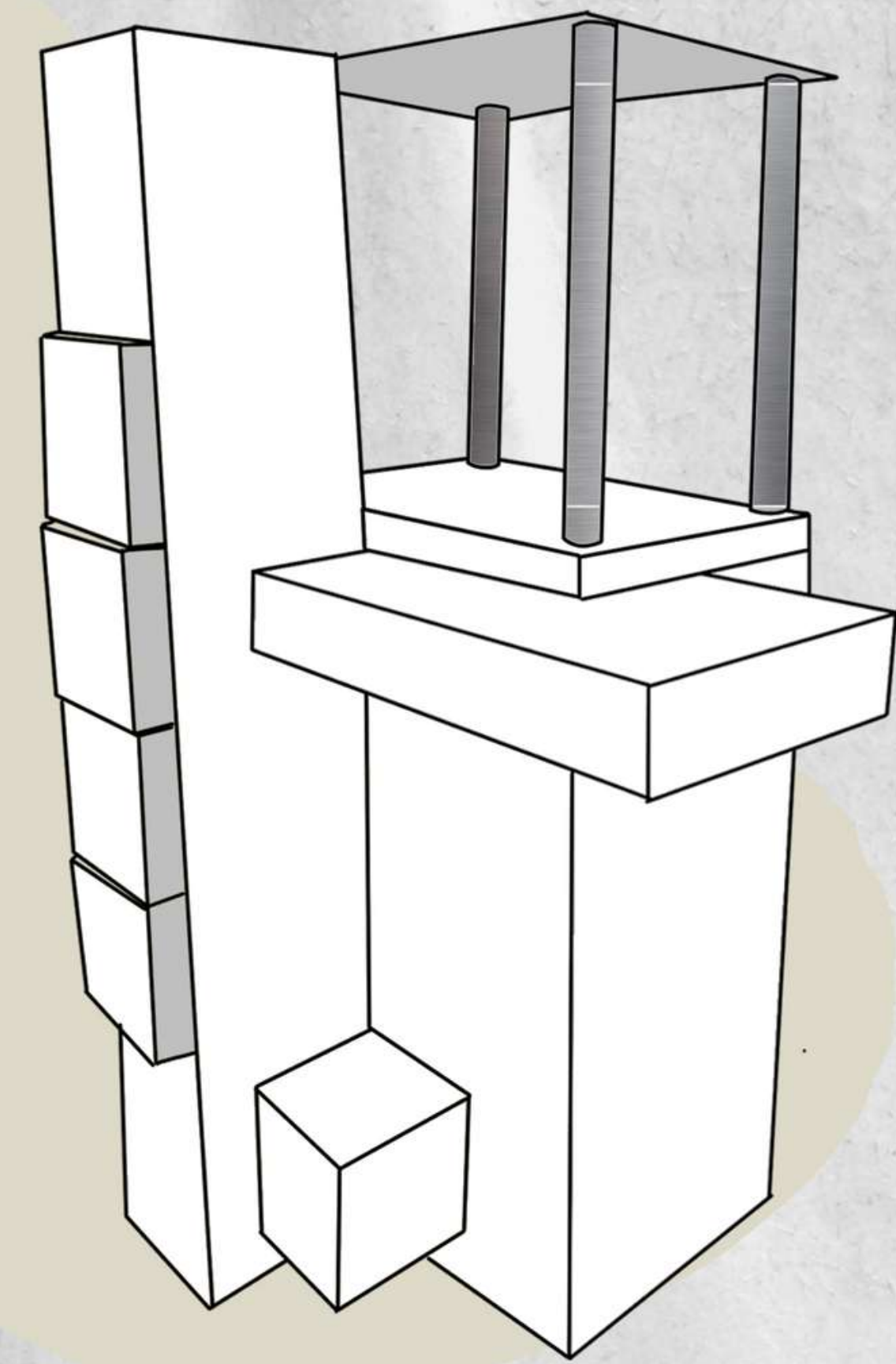
AXONOMETRIC 2



PLAN



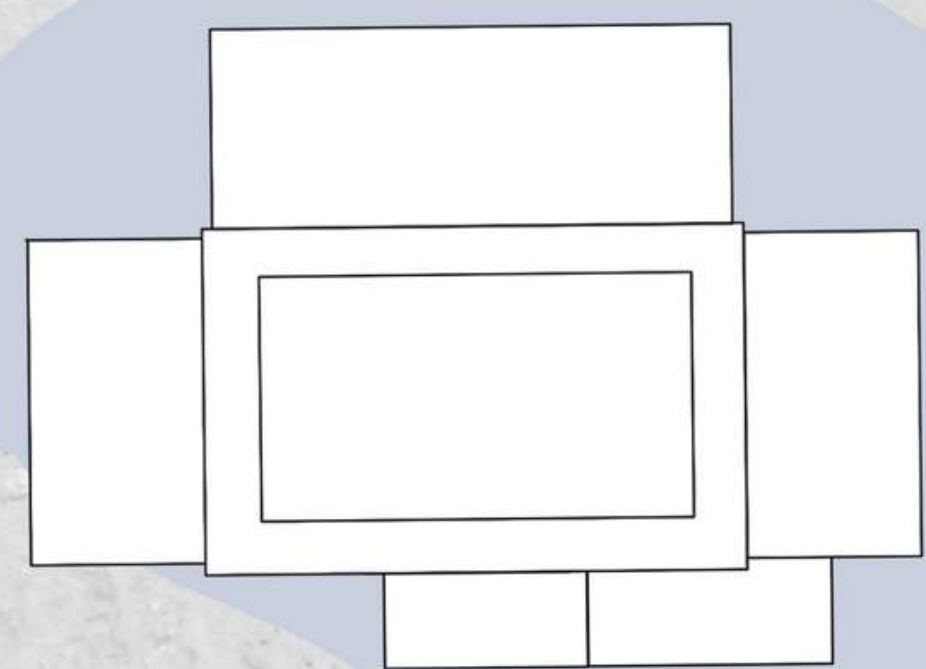
ELEVATION



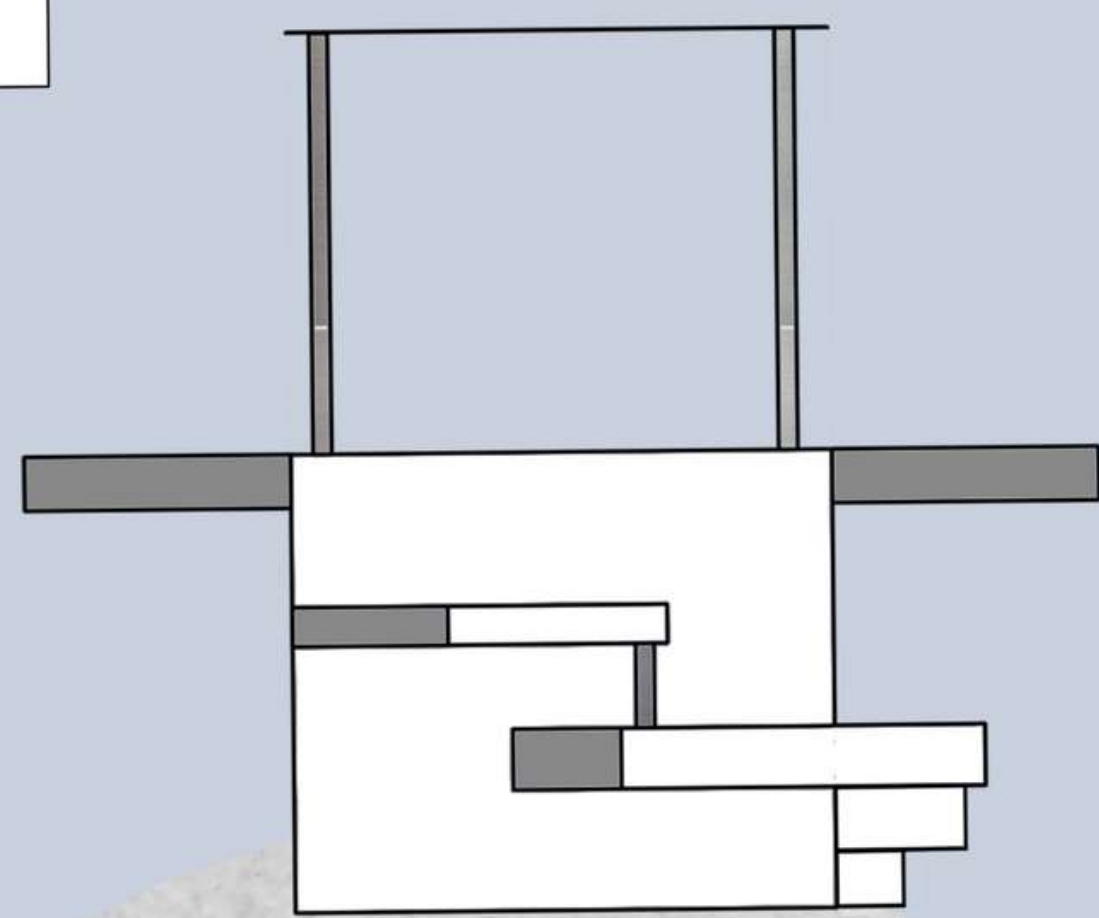
AXONOMETRIC

# Model 2

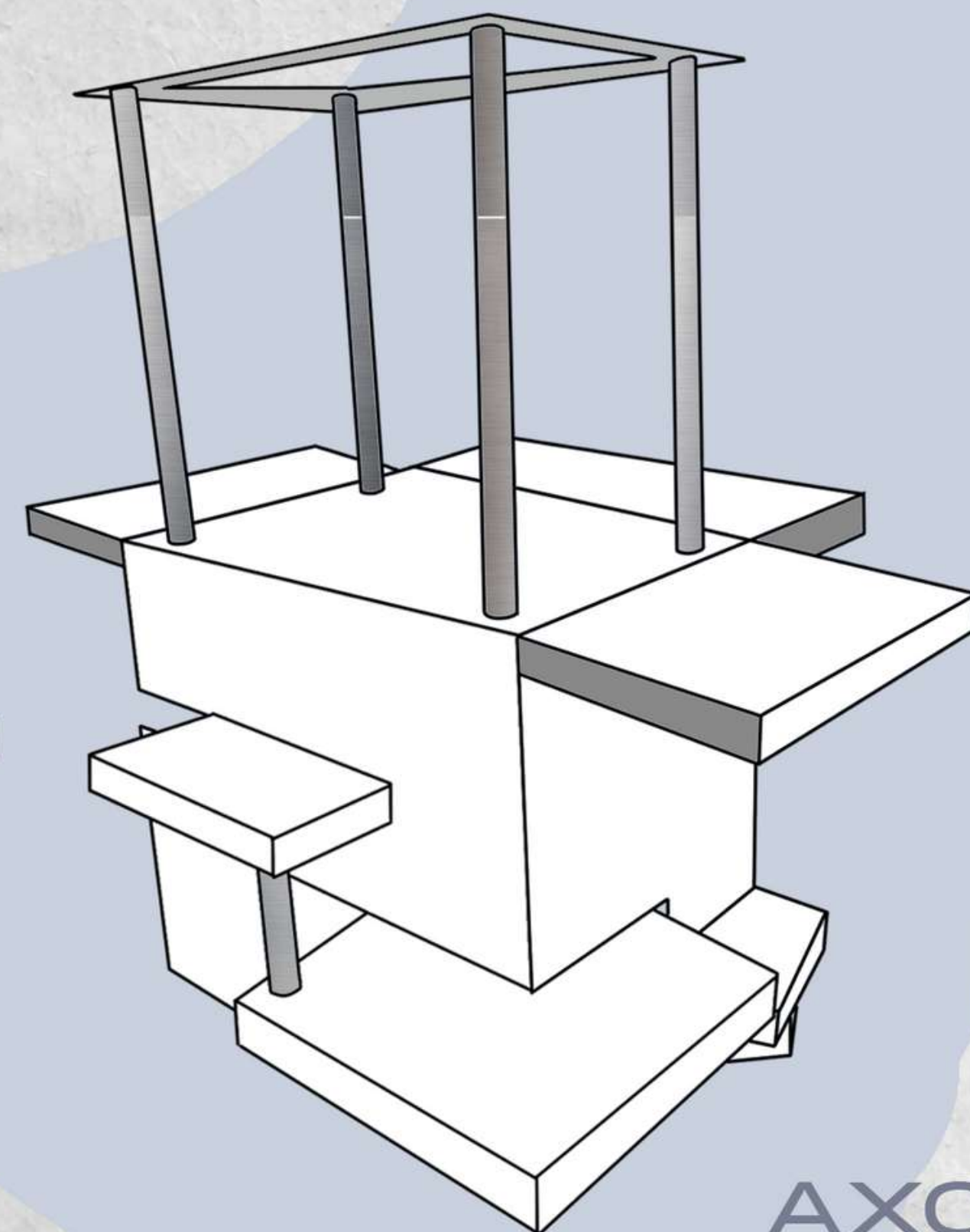
# Model 3



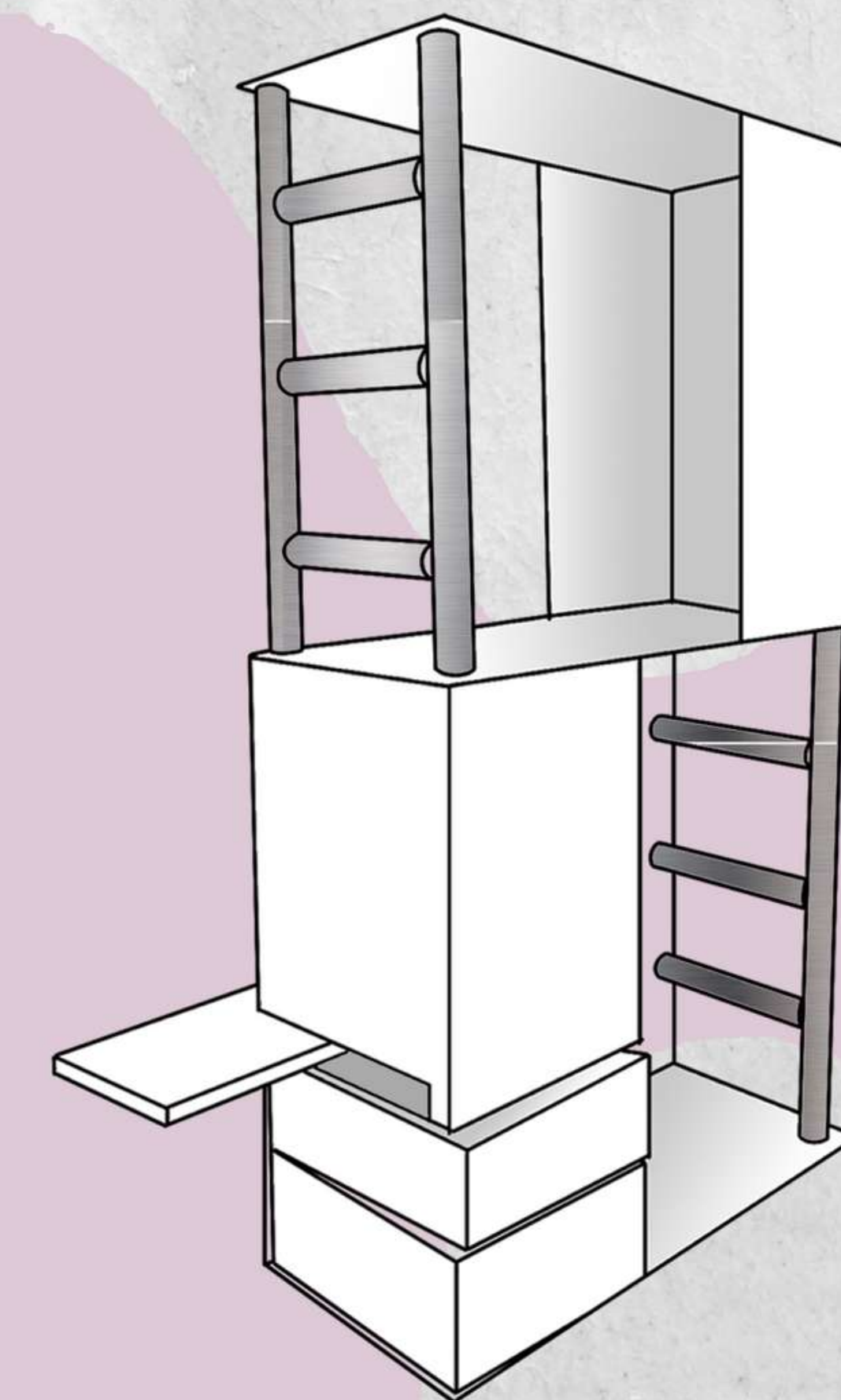
PLAN



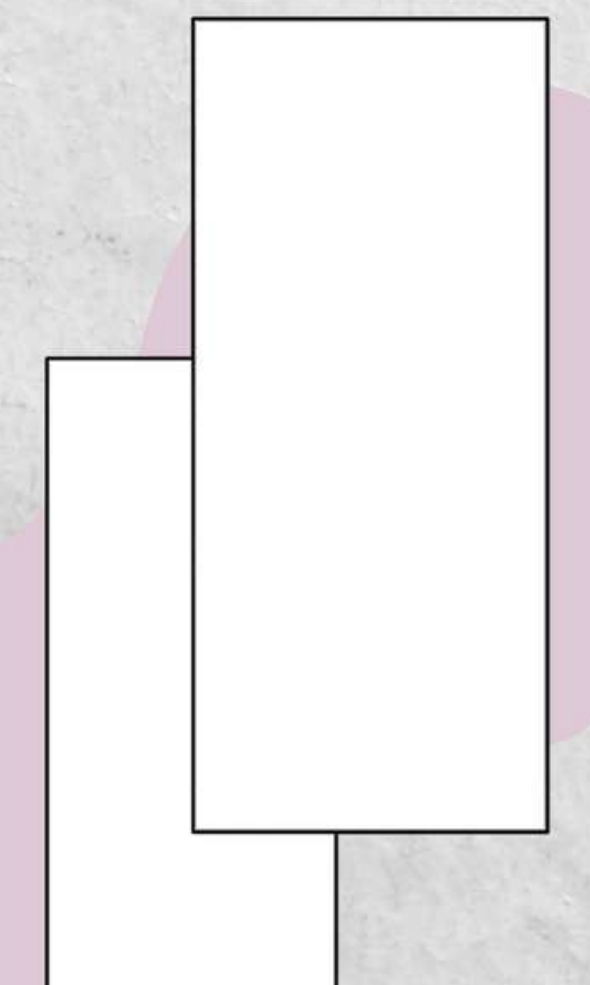
ELEVATION



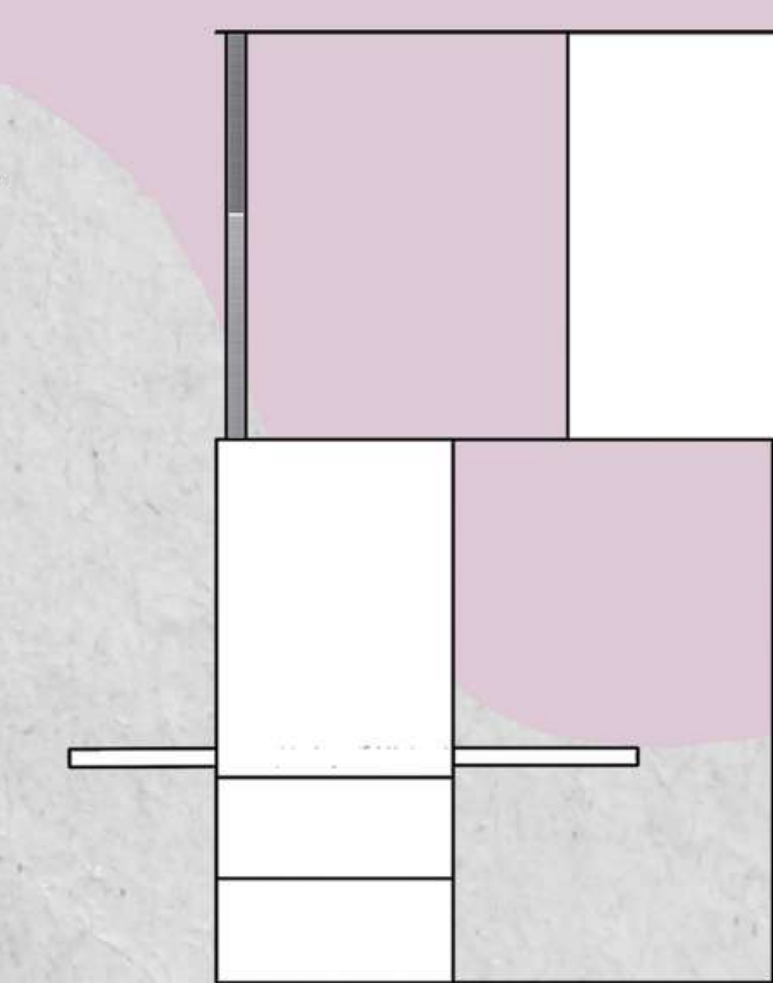
AXONOMETRIC



AXONOMETRIC



PLAN

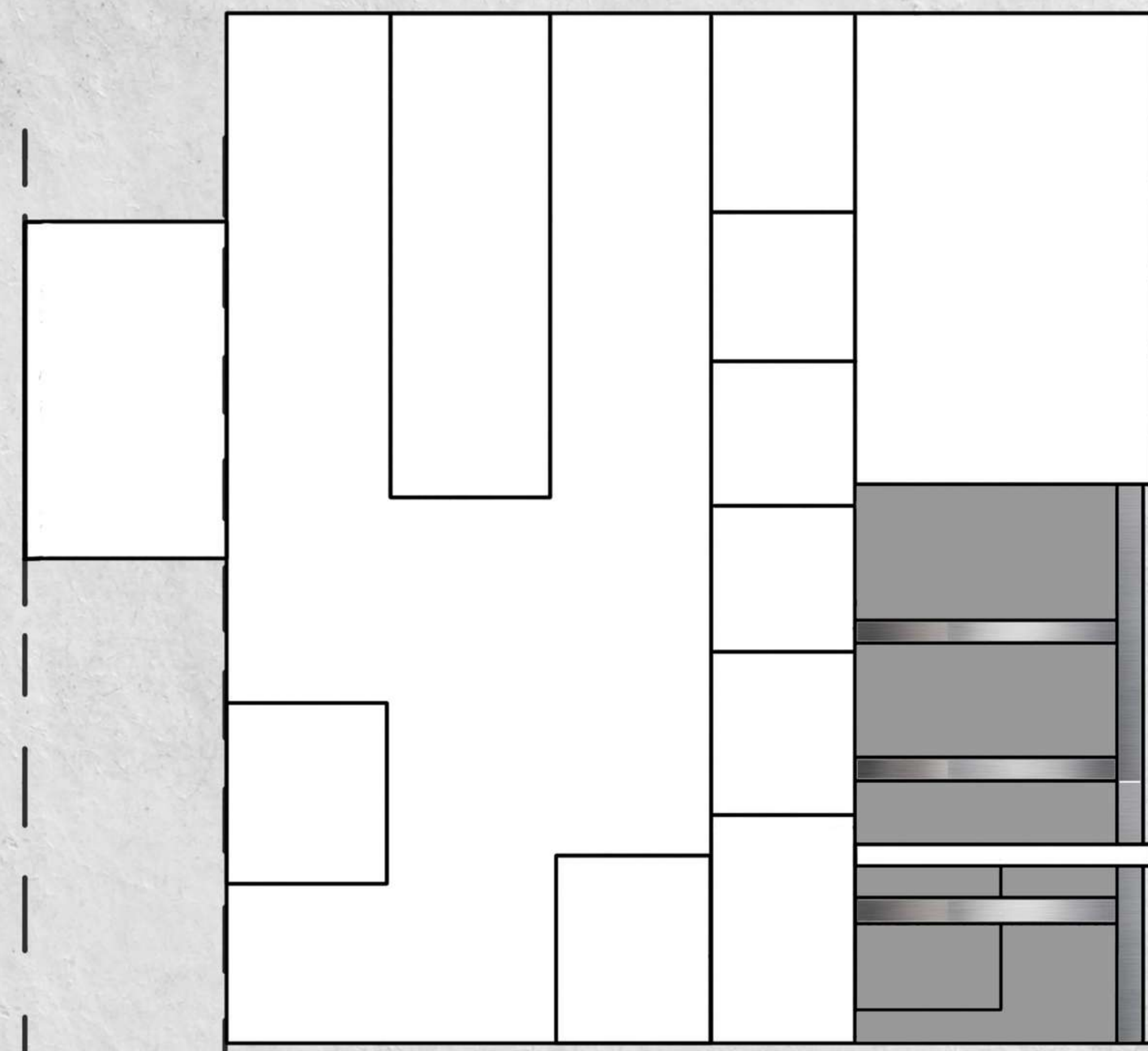


ELEVATION

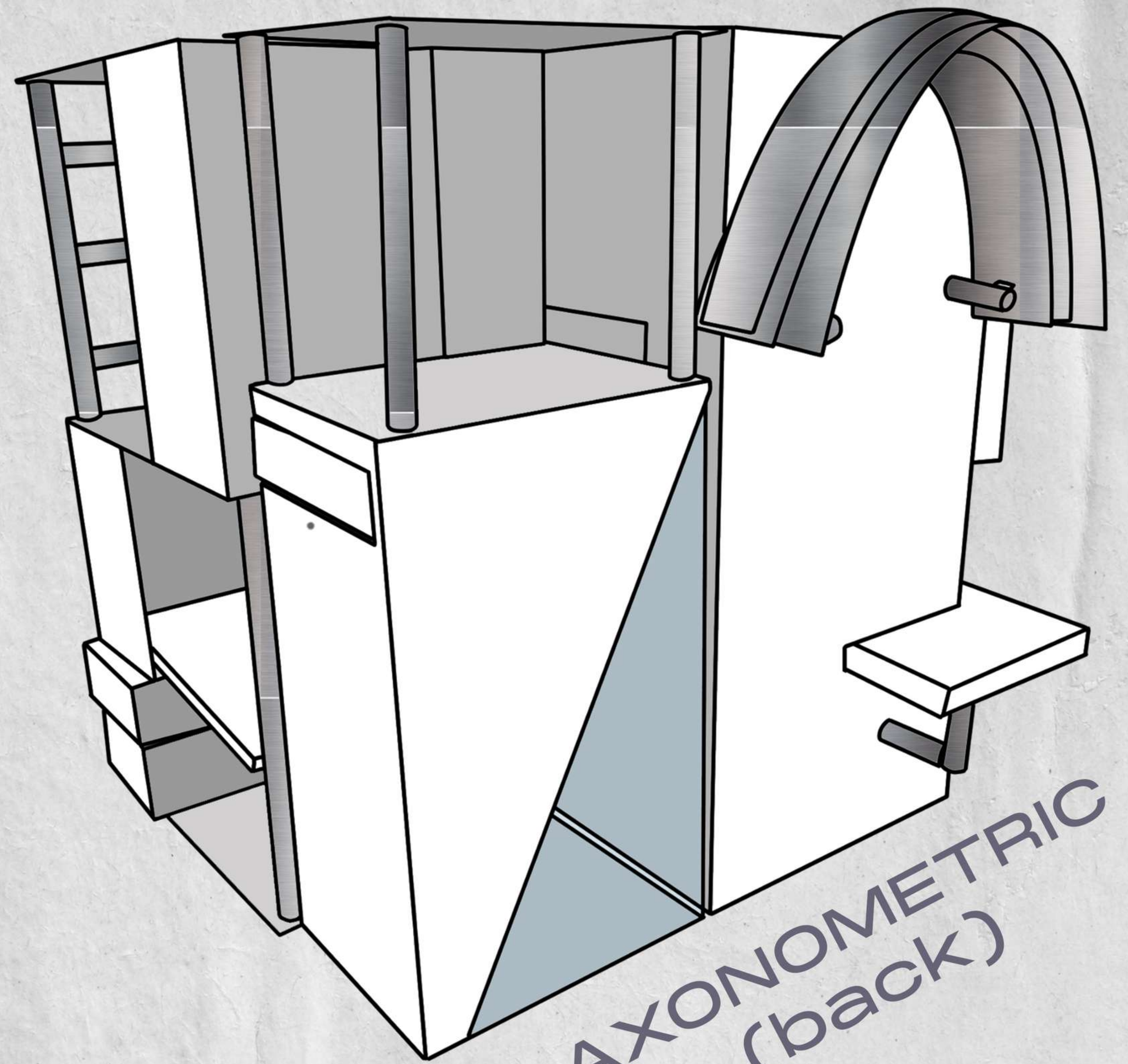
# Model 4



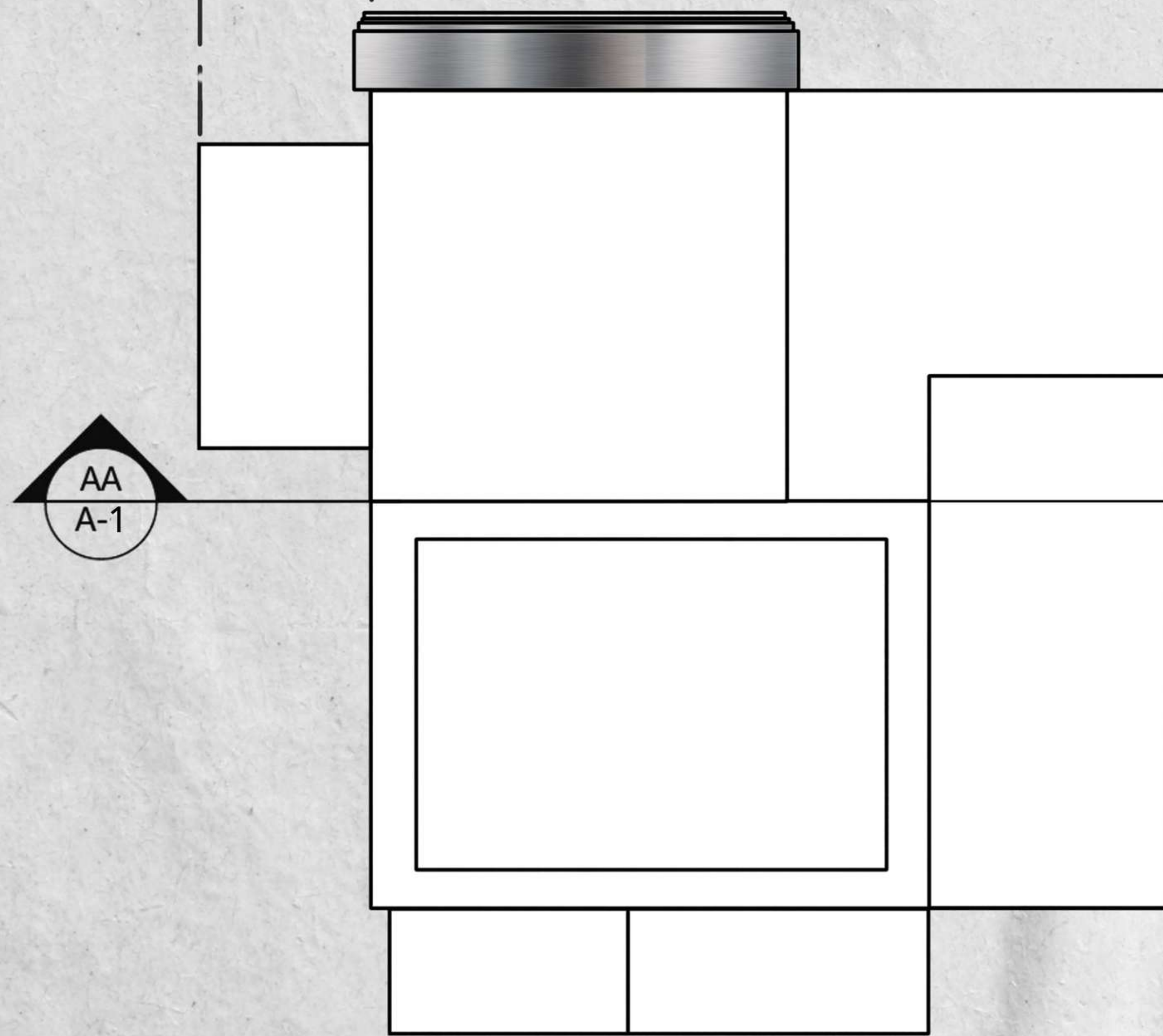
# Capsule Overview



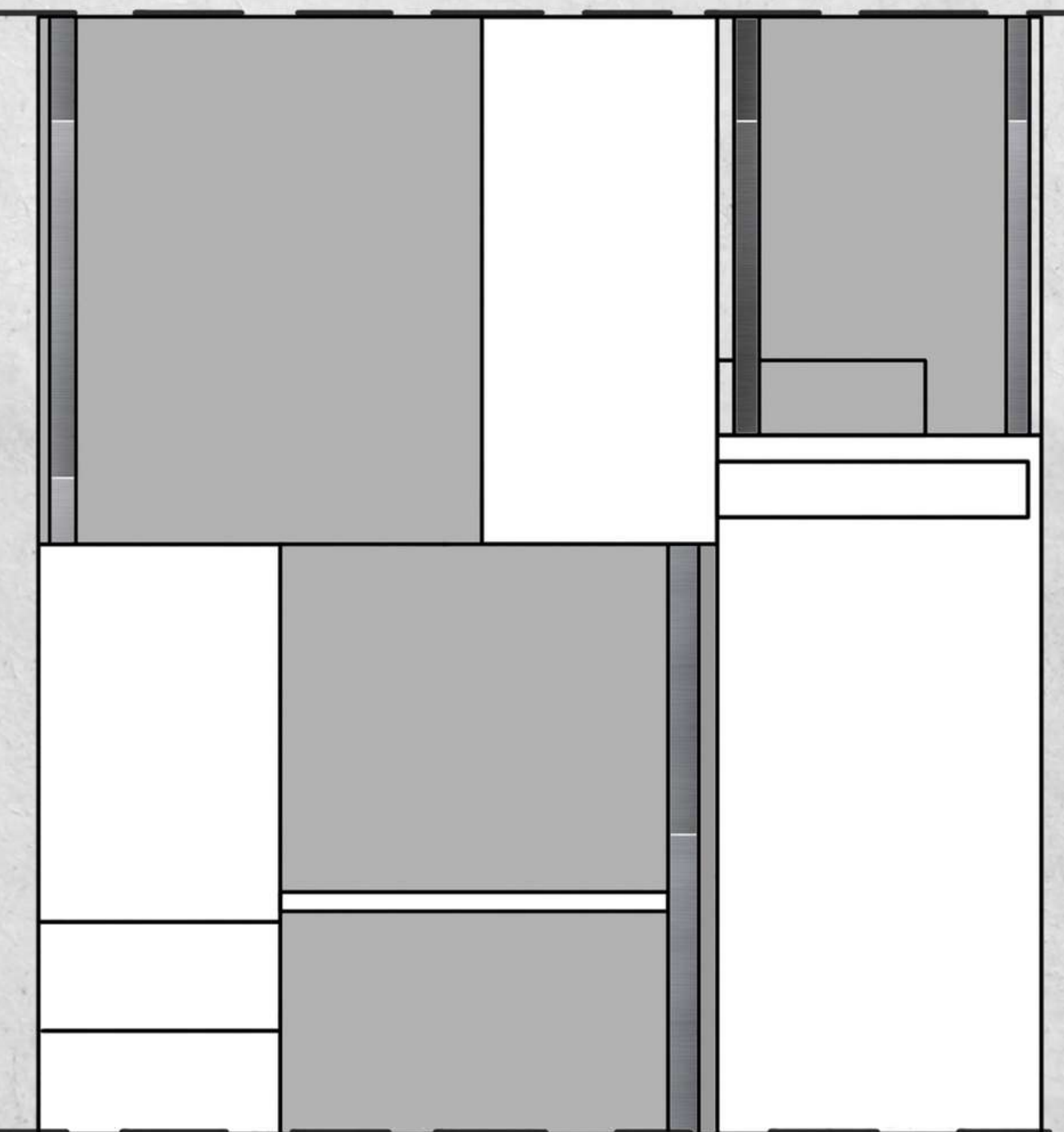
SECTION A-A



AXONOMETRIC  
(back)



PLAN



RIGHT ELEVATION



# 3D ACTIVITIES

## Model 2



## Model 1



Workshop 1 & 2

Mirror



Trying-on-shoe area

Recycle checkpoint



Mini work table for last minute shoe readjustments/resting area

Shoe display



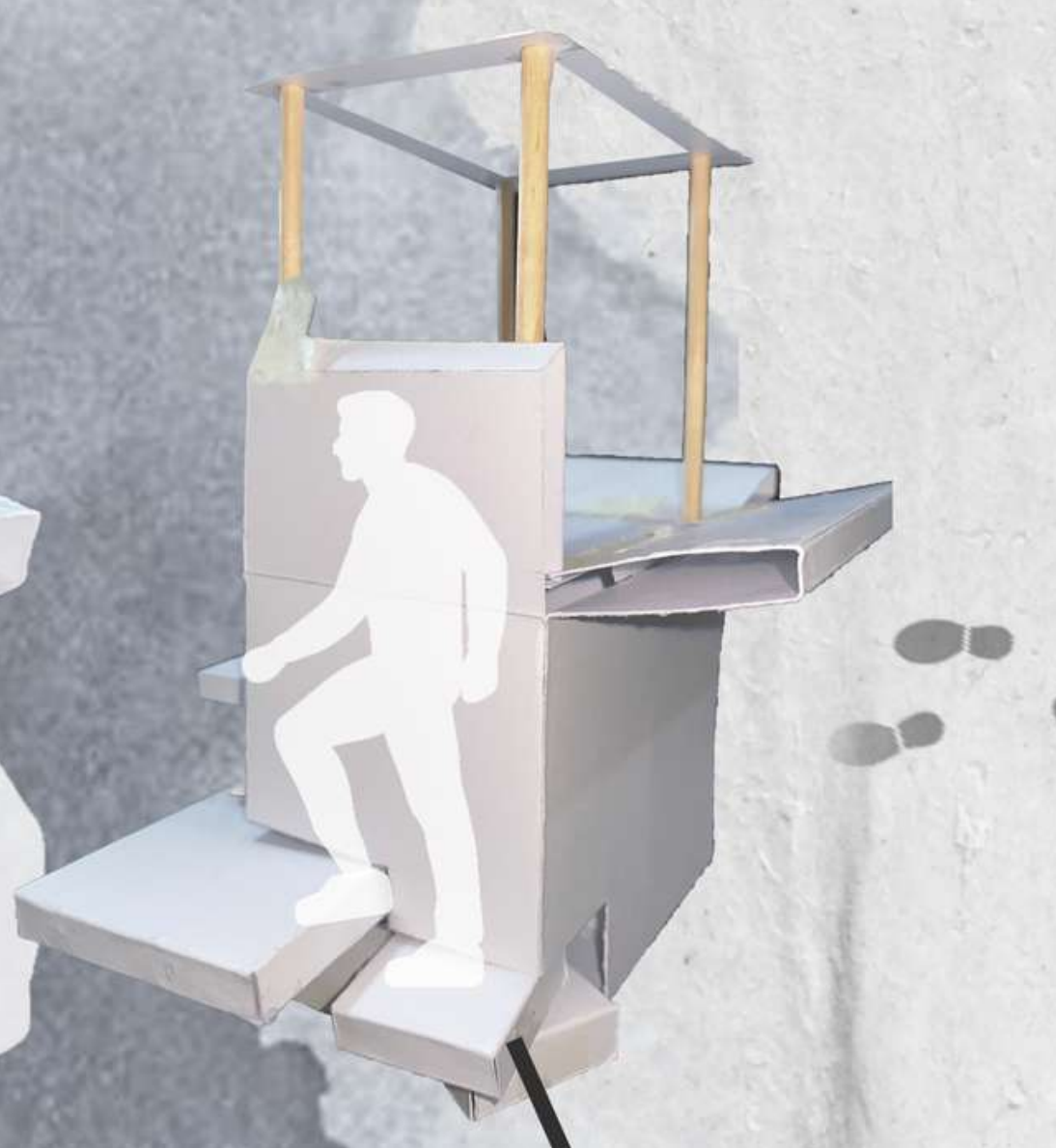
Photoshoot/advertising spot



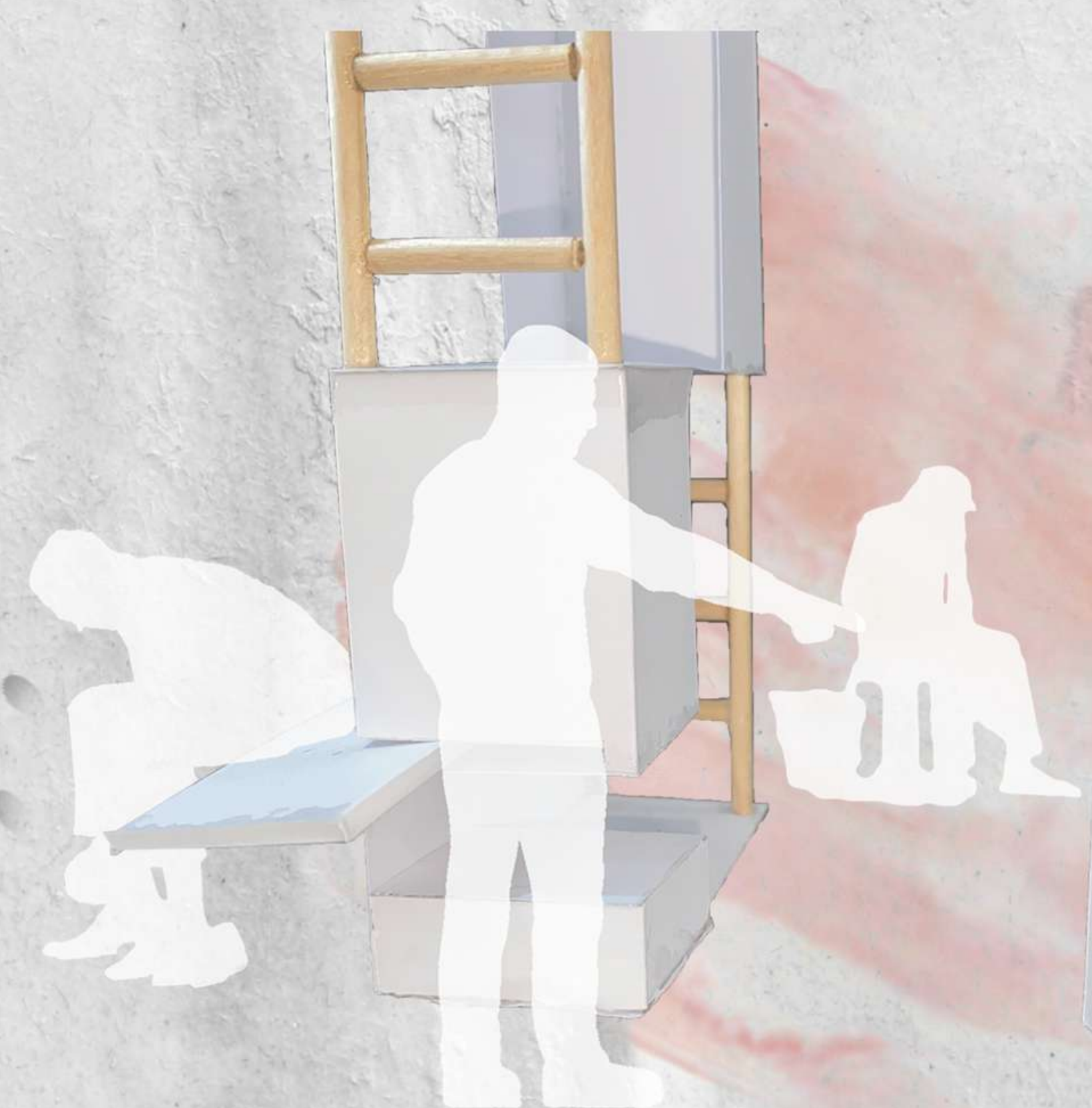
Shelter



Workshop 5 (three way workbench)



Mini stairs



Portable table kit for shoe cobblers (rent)



Workshop 3



Sitting area

Workshop 4

## Model 4

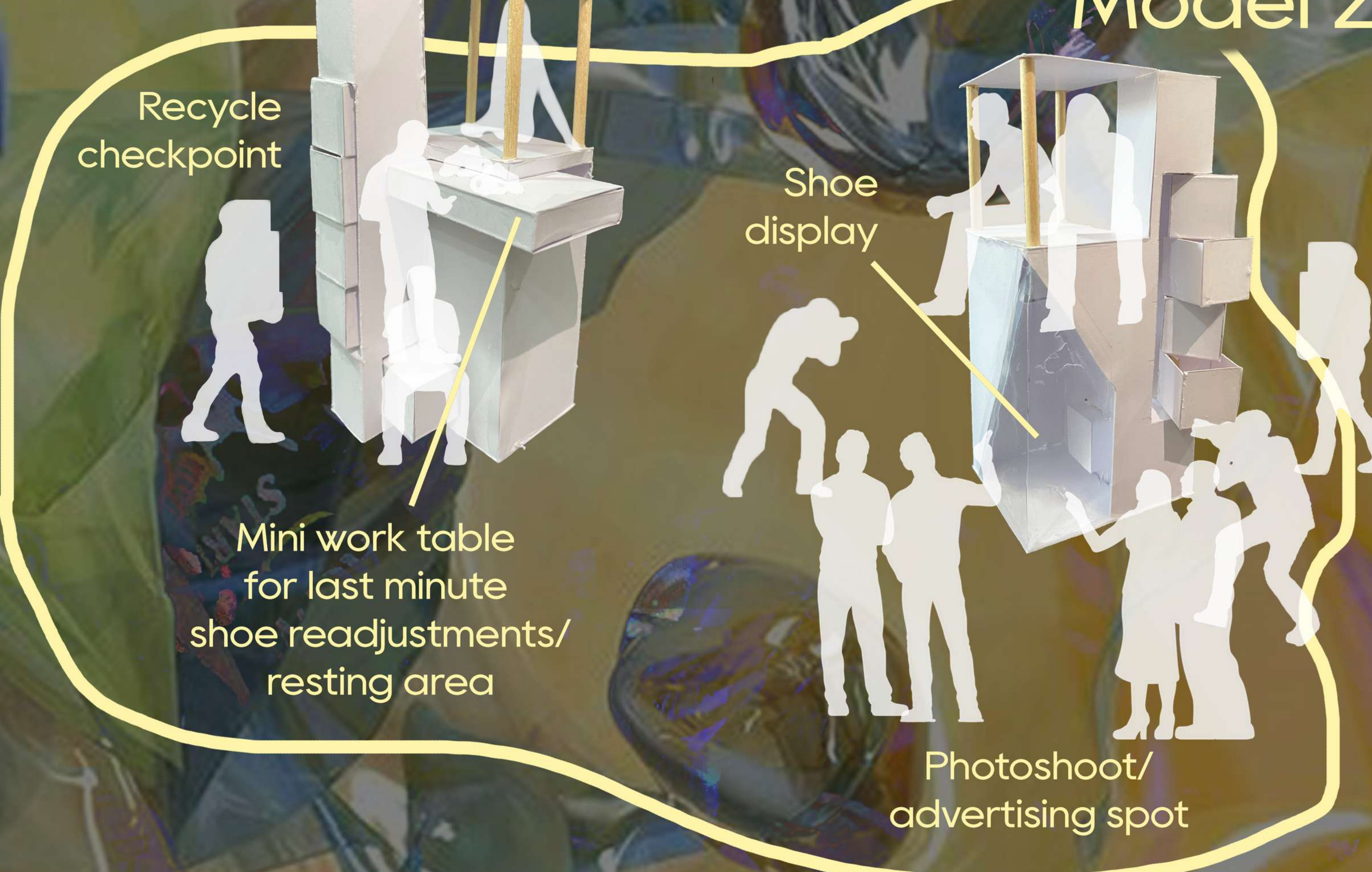
## Model 3



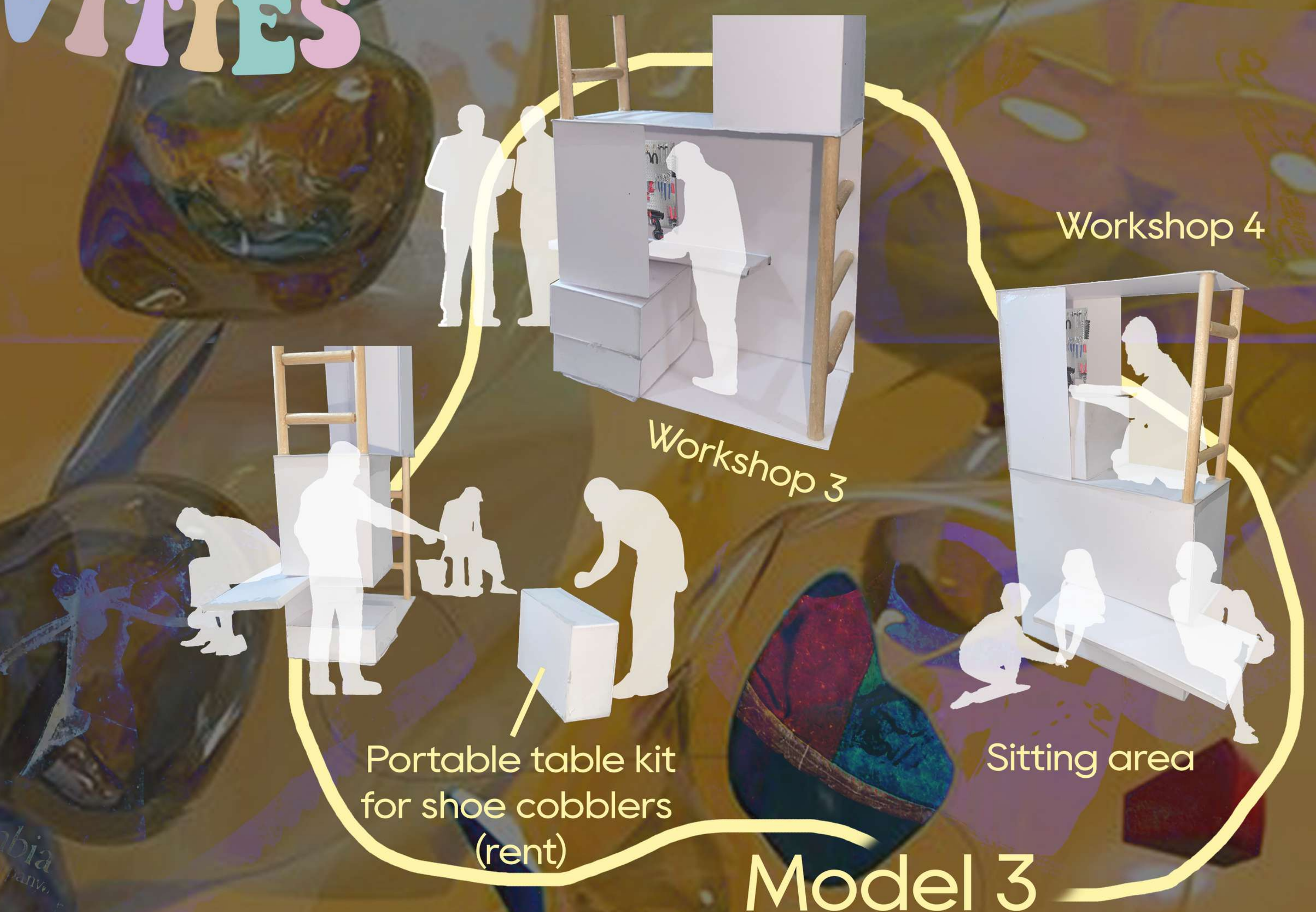
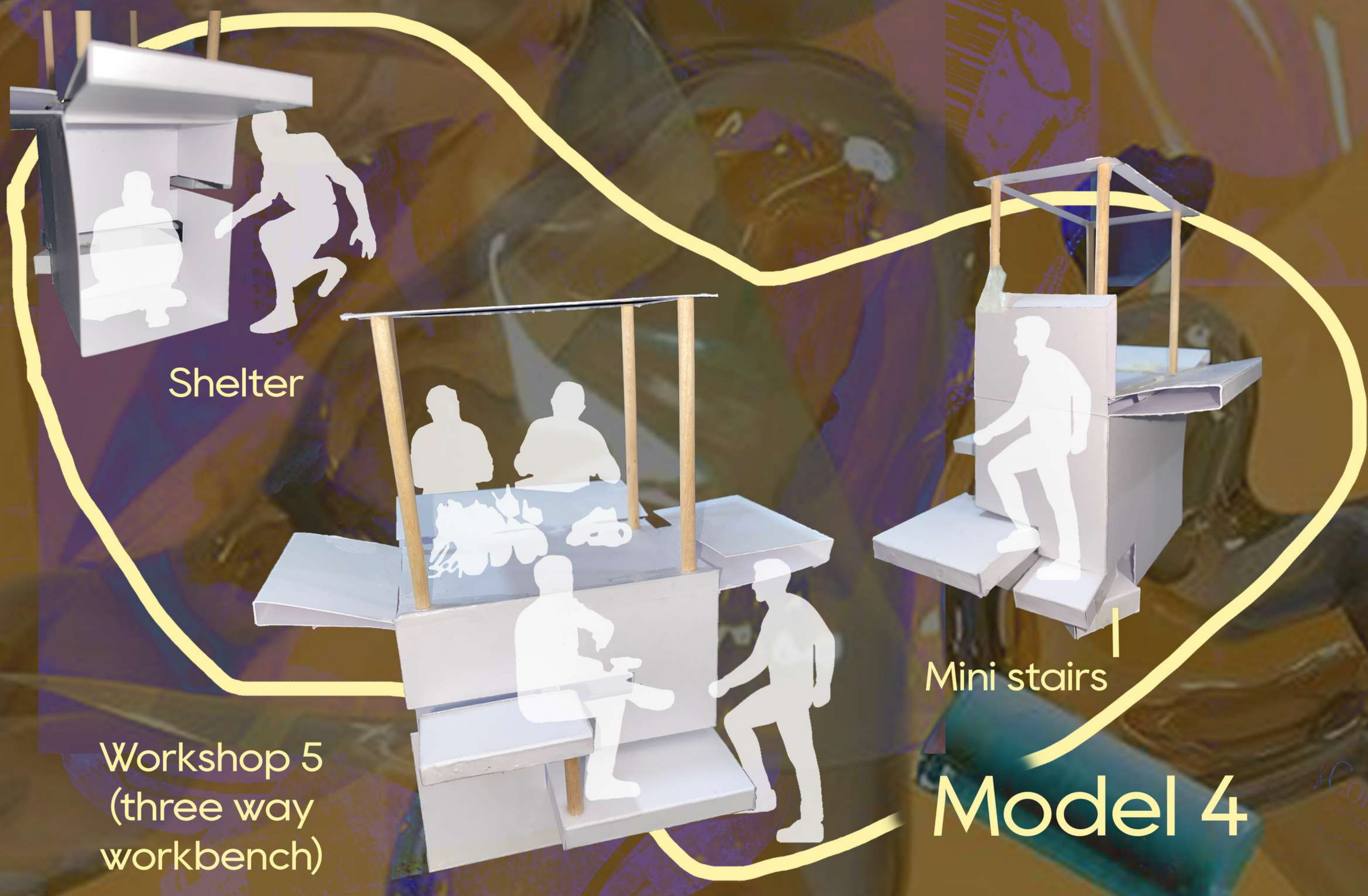
# Model 1



# Model 2



# 3D ACTIVITIES





# 3D ACTIVITIES

## Shoe Festival (every Saturday night)



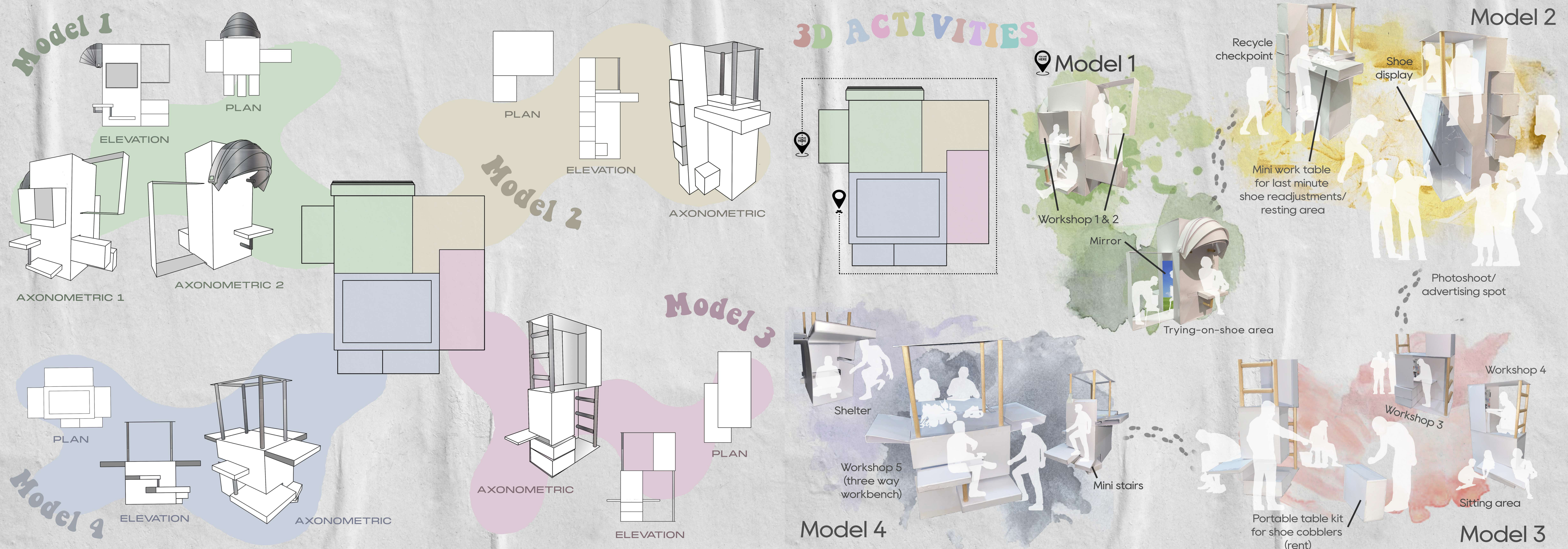
Tracks/ act as a pathway

Tracks opened/  
extended to make  
a bigger platform

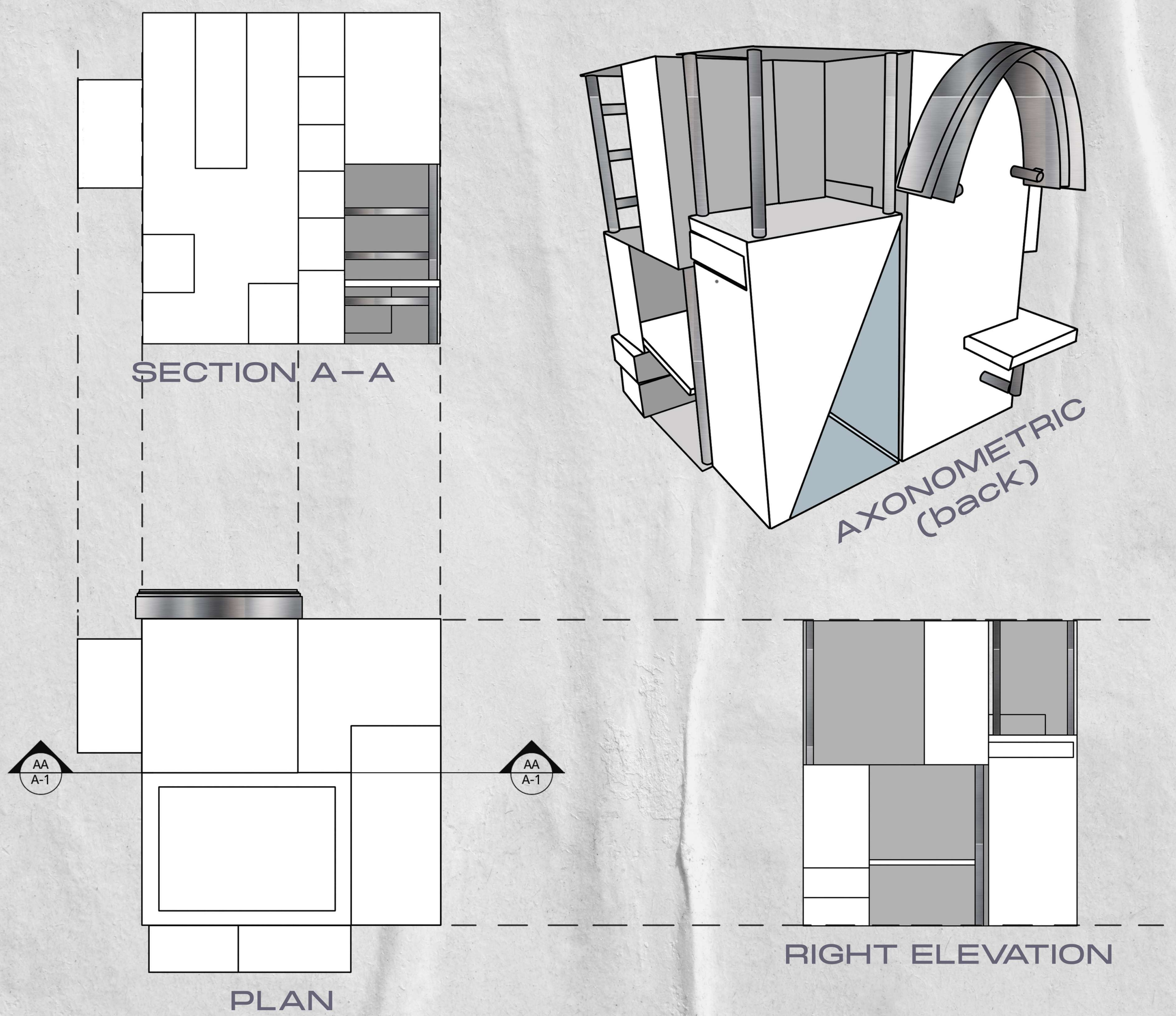
Mannequins for  
shoe exhibitions

Normal/ Daily



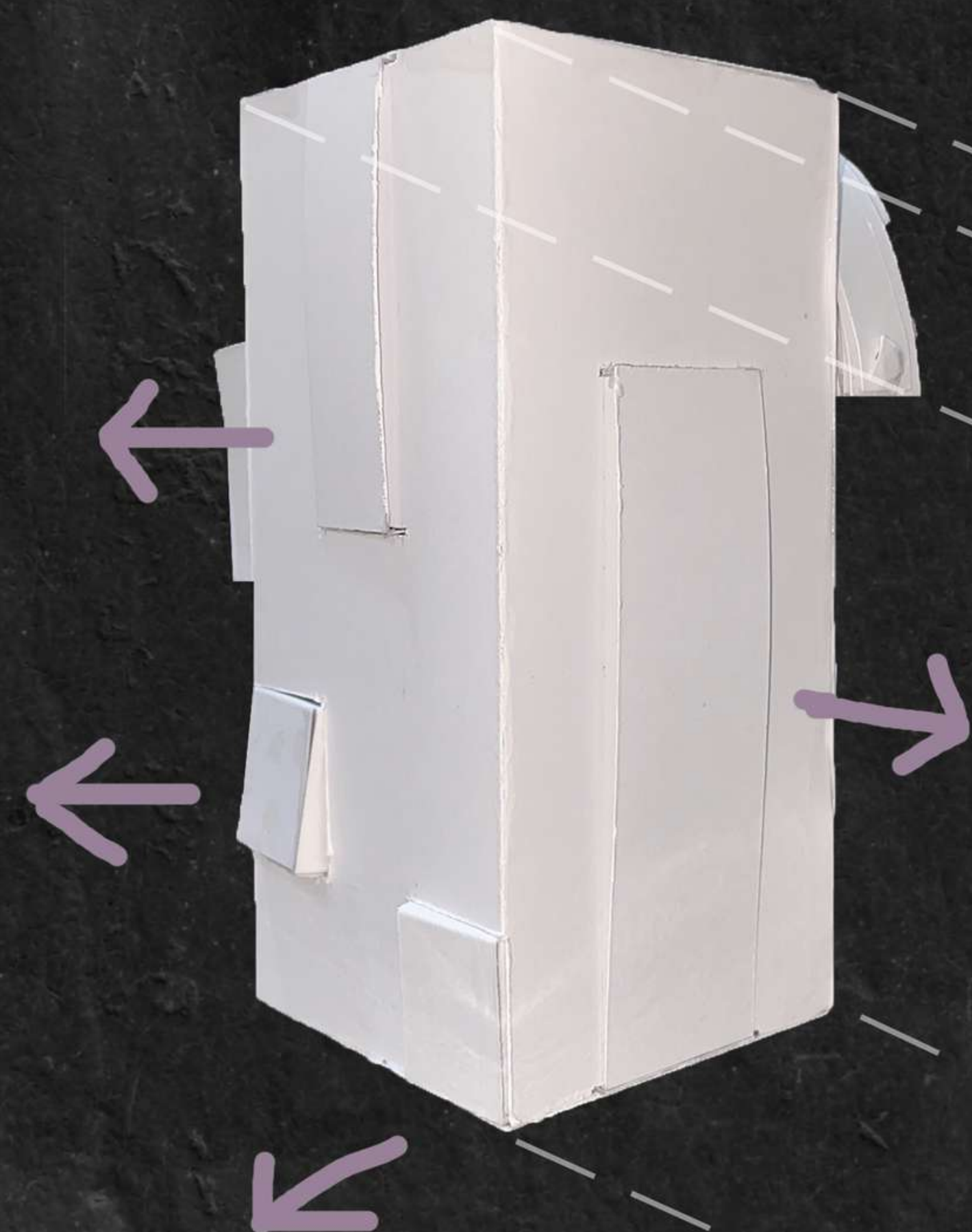
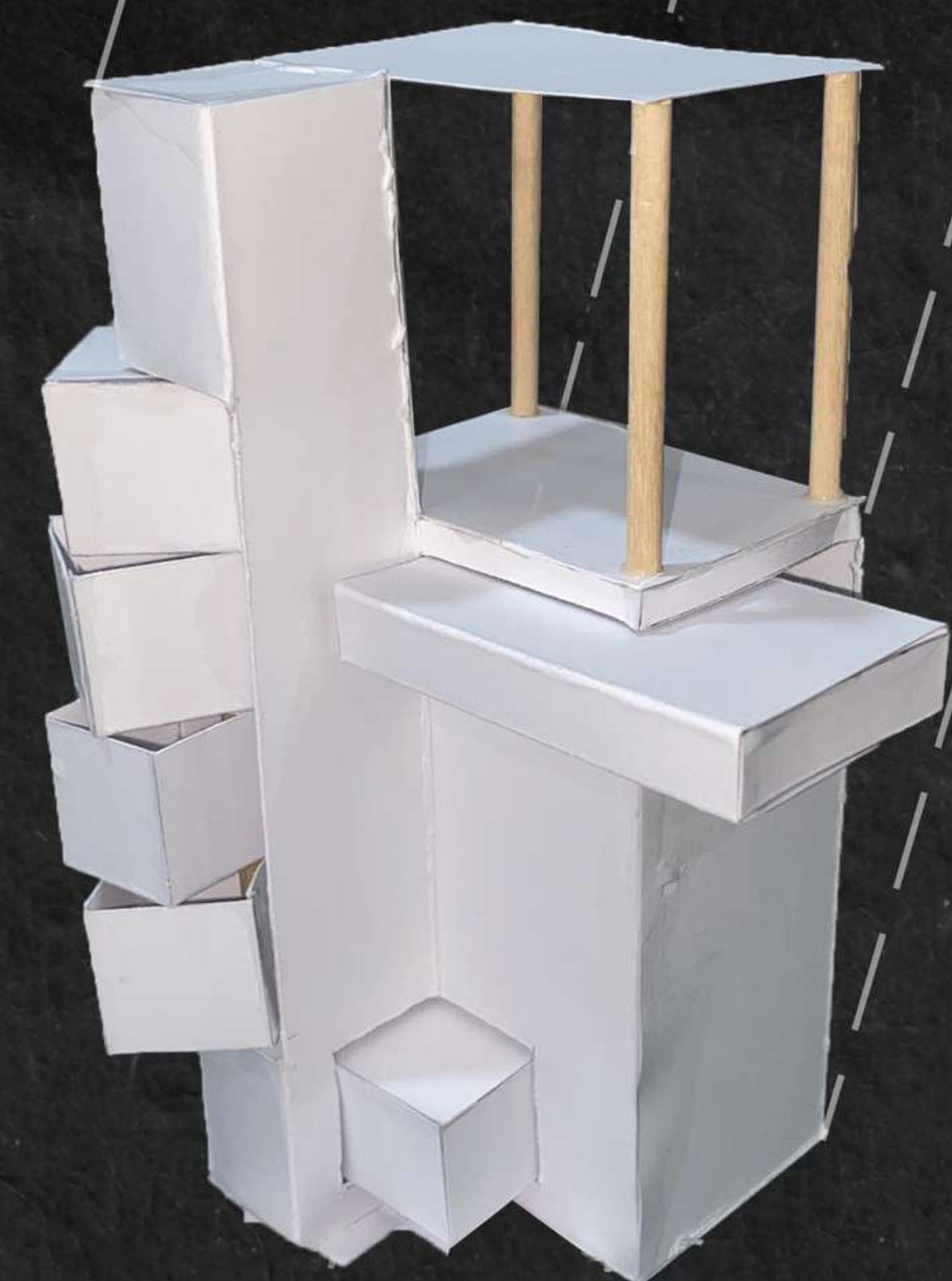
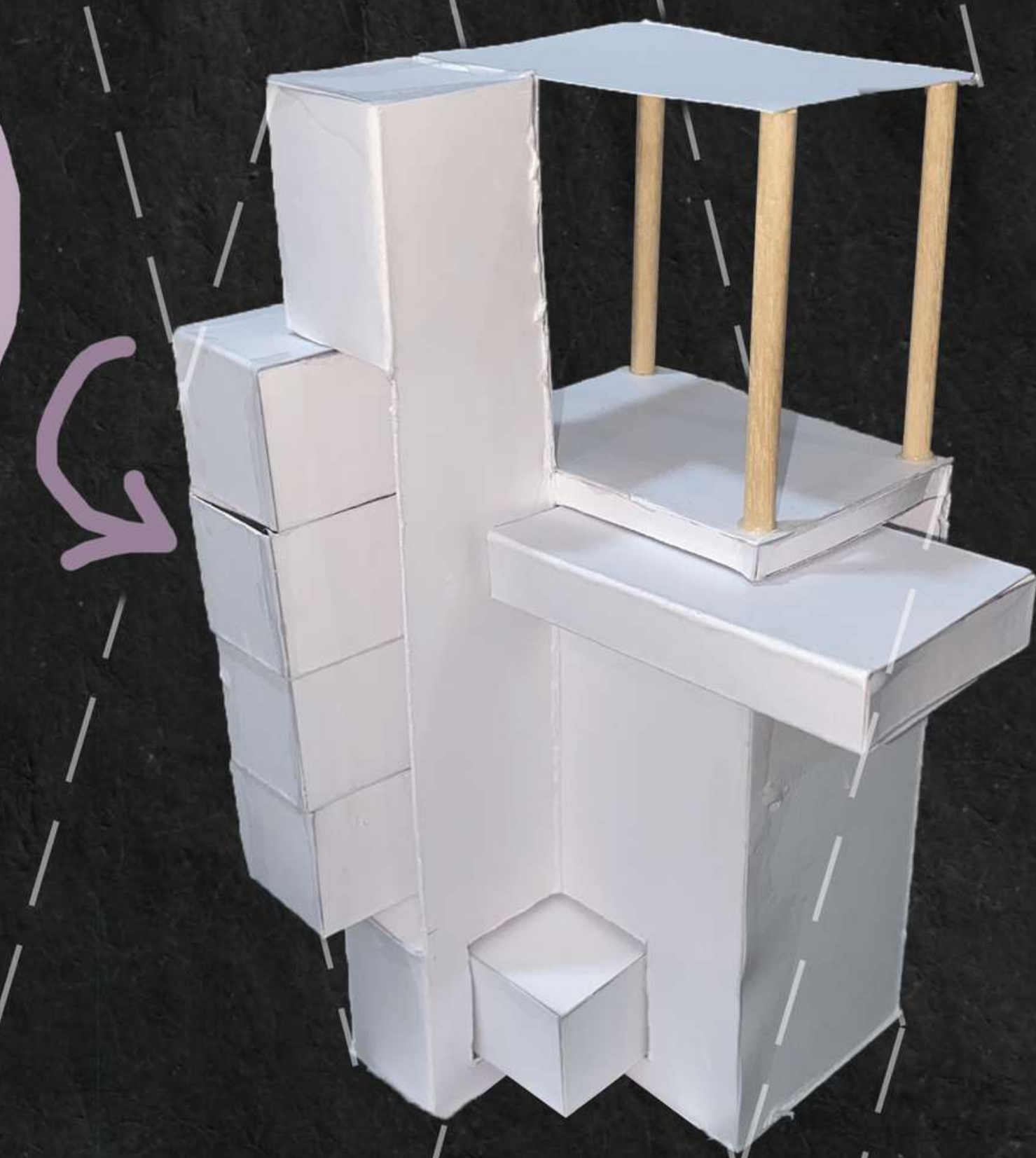
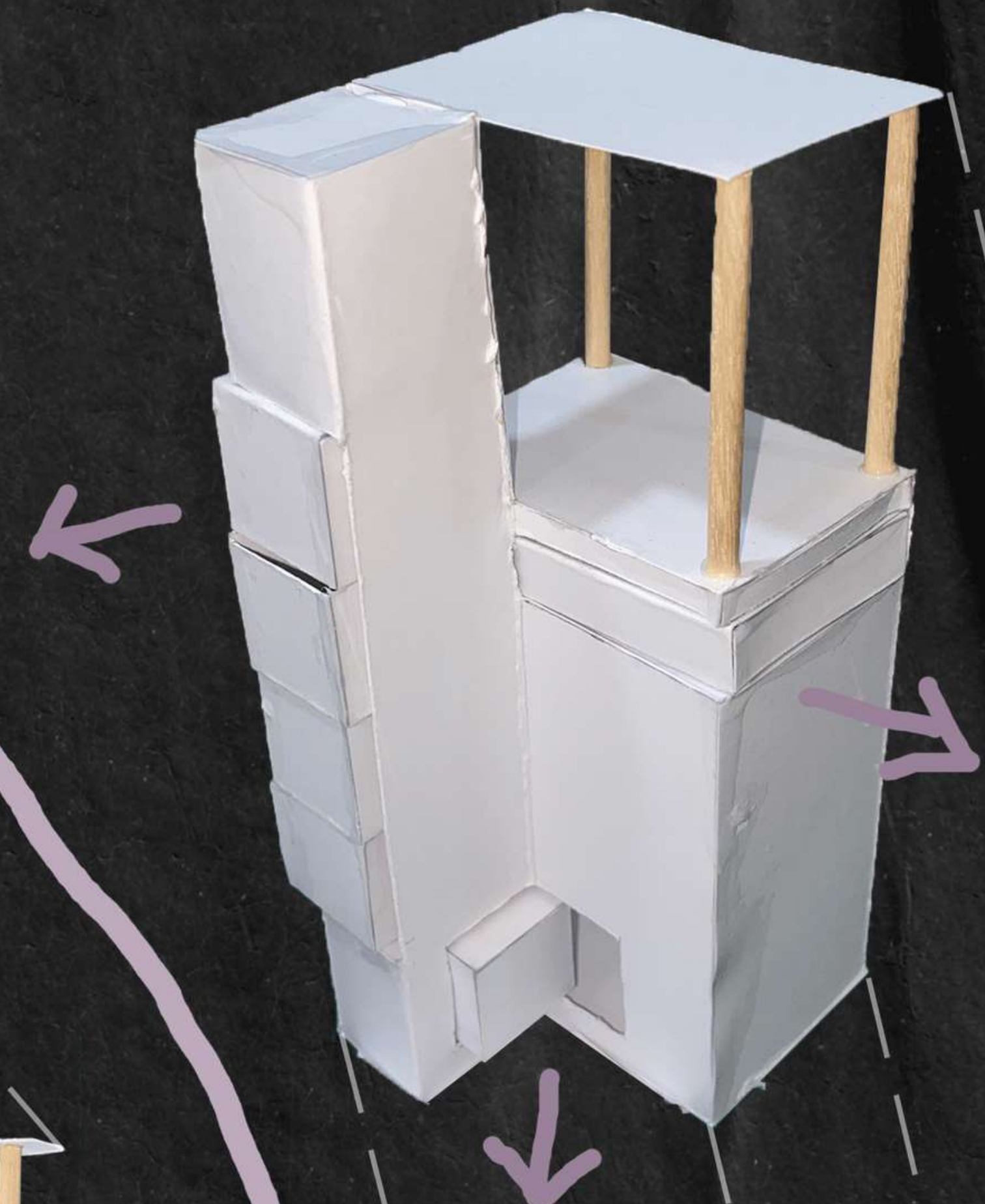
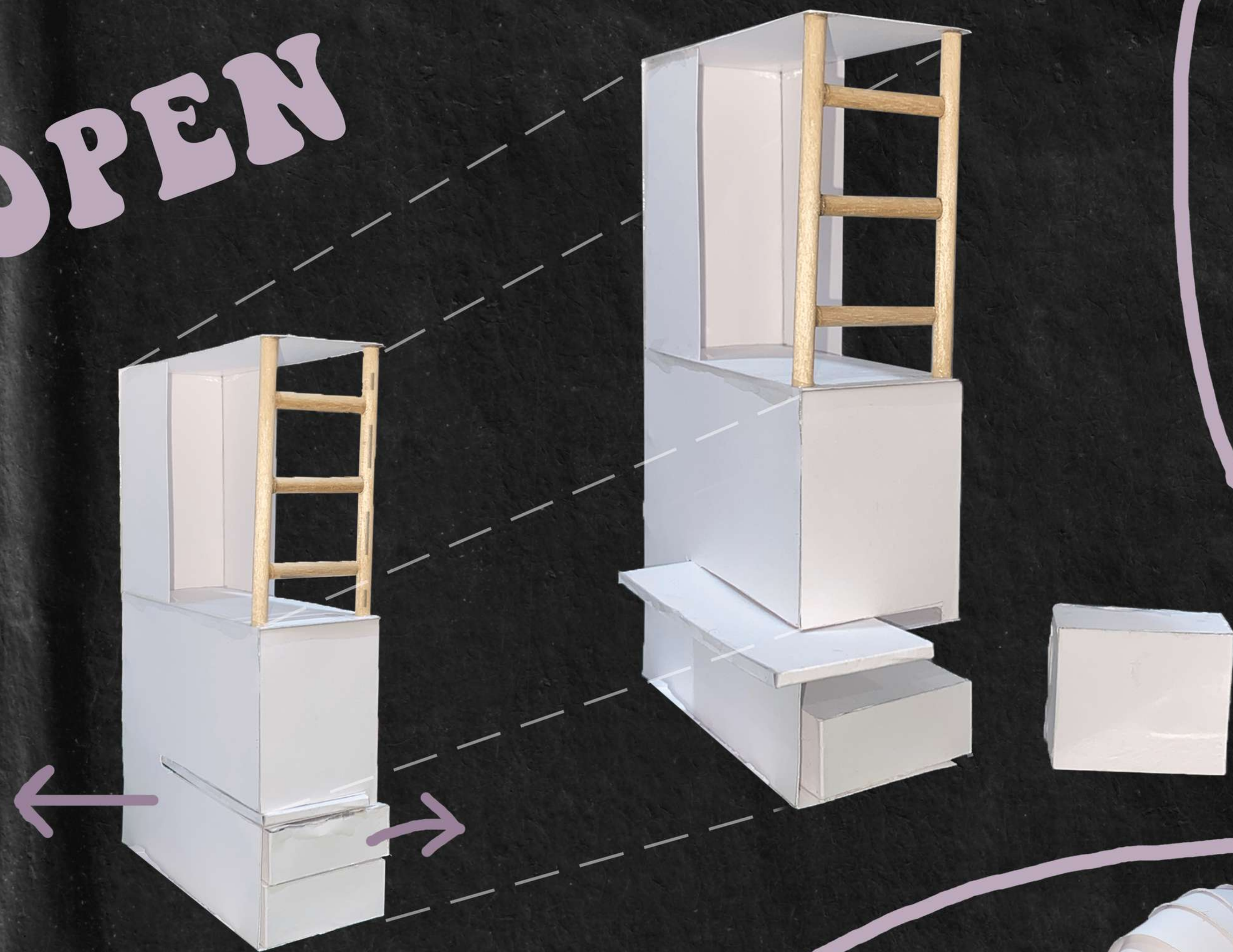


**Capsule Overview**

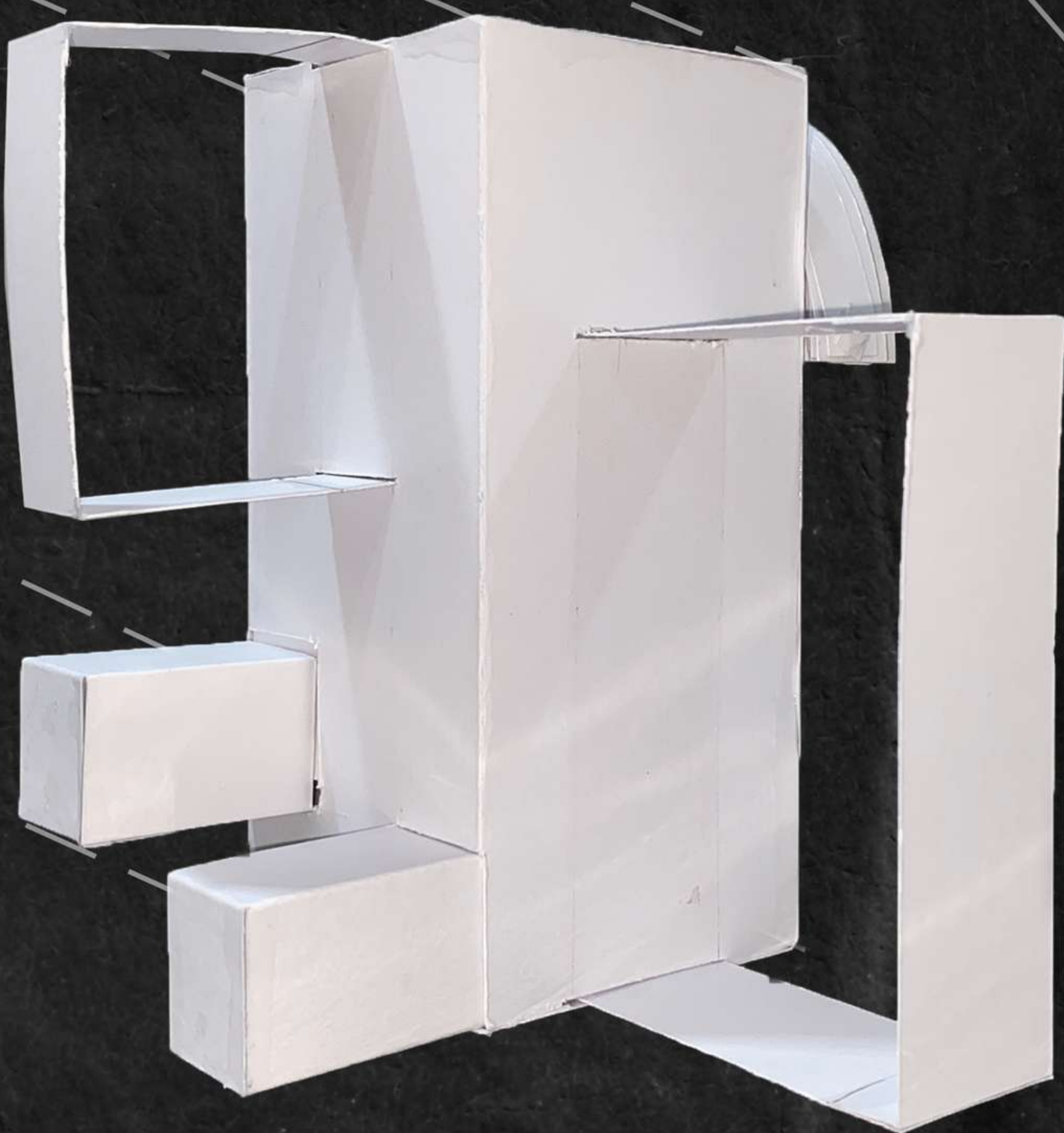




OPEN



CLOSE





POP-UP CAPSULE VIDEO :

<https://drive.google.com/file/d/1Qm2mfhVjNDWu-lwj7Qolk2w33RdH1Qq/view?usp=sharing>





# FINAL PROJECT

ASHLEY TEW LI WEN  
0343533





INITIAL CONCEPT.



**The Gym**

MOVE | 2021

# Move

01

ASHLEY TEW LI WEN 0343533 | BIA



# Research

## ON SUSTAINABILITY

### SUSTAINABLE DEVELOPMENT GOALS



**Renewable energy solutions are becoming cheaper, more reliable and more efficient every day.** Our current reliance on fossil fuels is unsustainable and harmful to the planet, which is why we have to change the way we produce and consume energy. Implementing these new energy solutions as fast as possible is essential to counter climate change, one of the biggest threats to our own survival.

**7 AFFORDABLE AND CLEAN ENERGY**

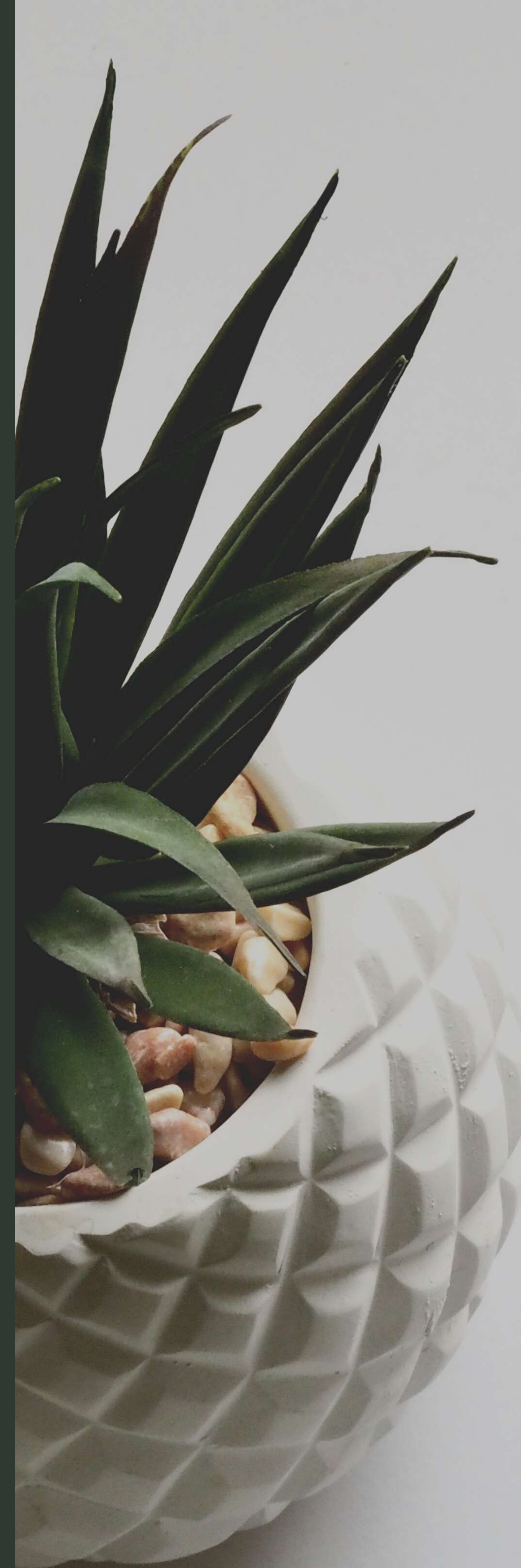
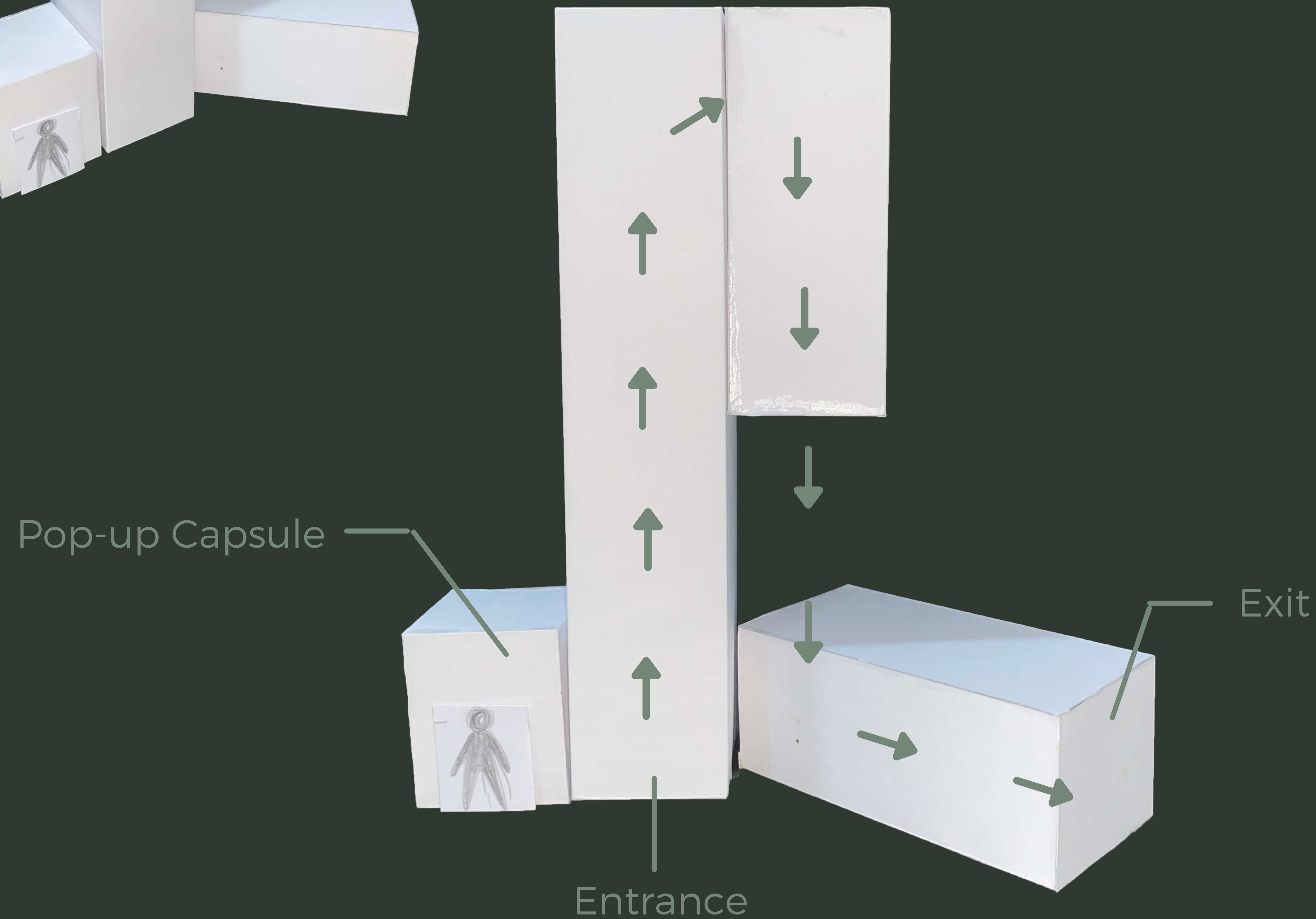
**Ensure access to affordable, reliable, sustainable and modern energy for all.**





# Initial Arrangement

1:75 MODELS





# INITIAL SPATIAL / ACTIVITY IDEAS

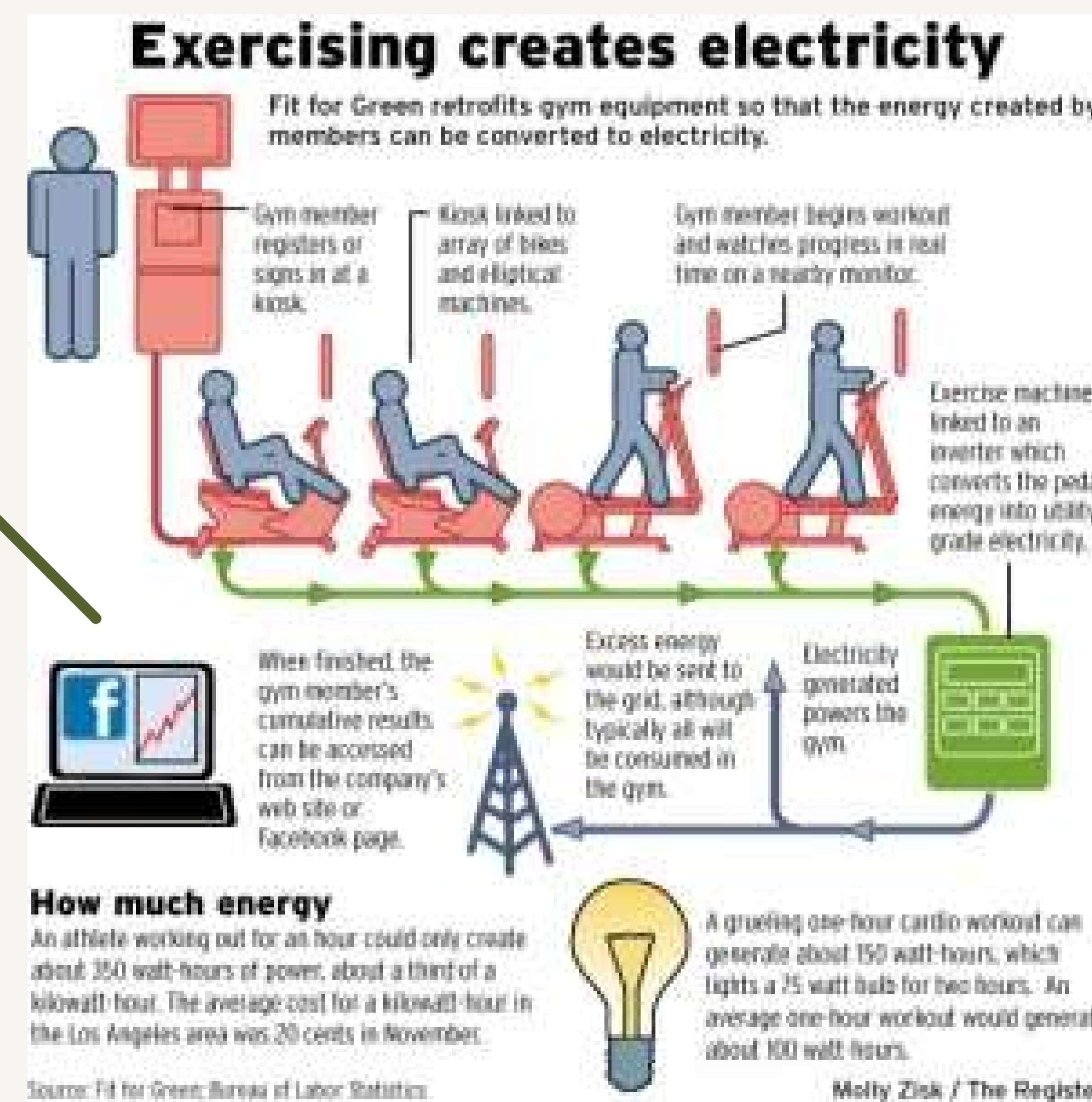
MOVE | 2021



Biofit's  
Biophilic Indoor Gym



Singapore's Gardens By The Bay



Collaboration with  
Tenaga National



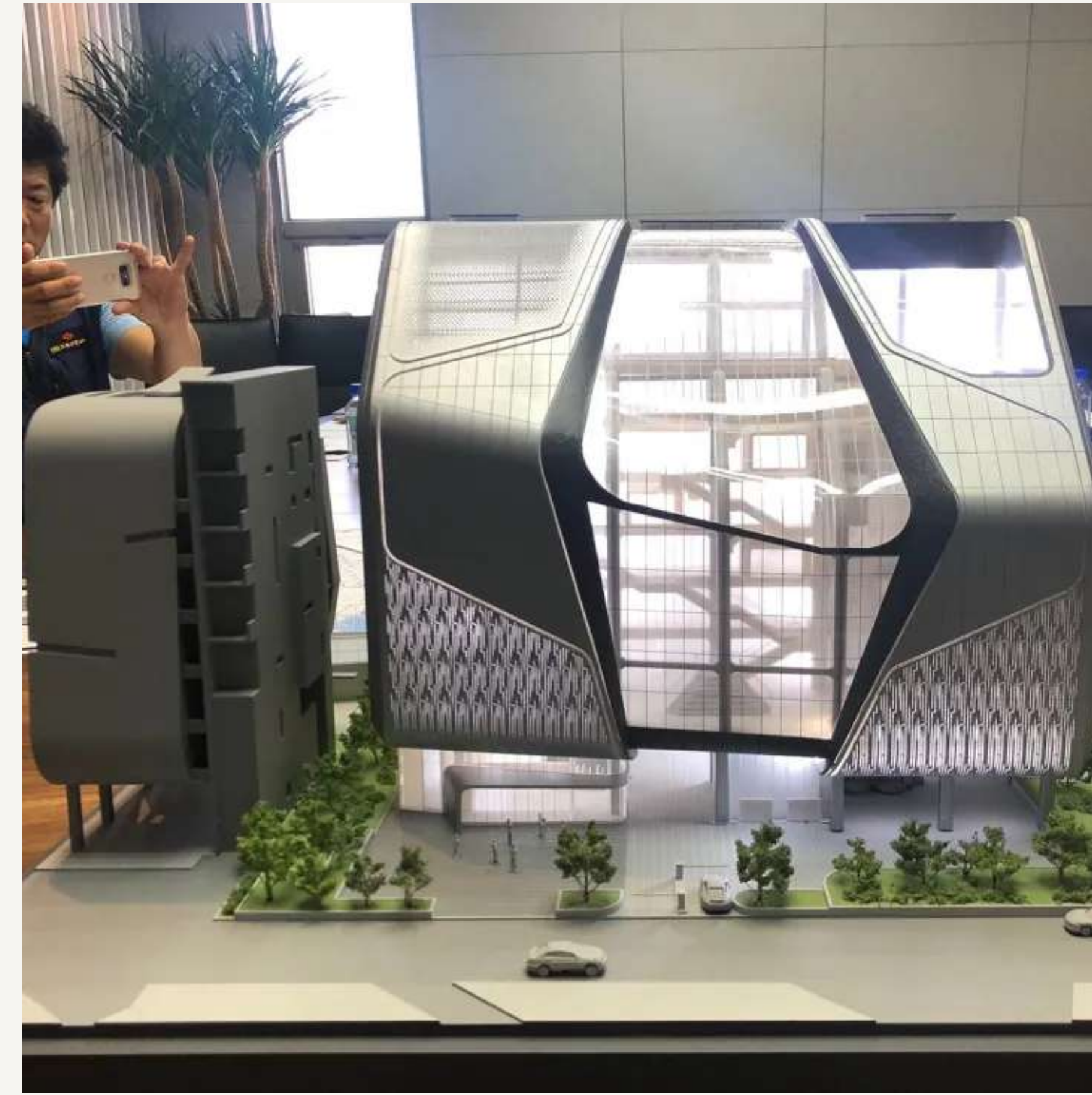
Herzog & de Meuron -  
Beirut Terraces



# INITIAL SPATIAL / ACTIVITY IDEAS

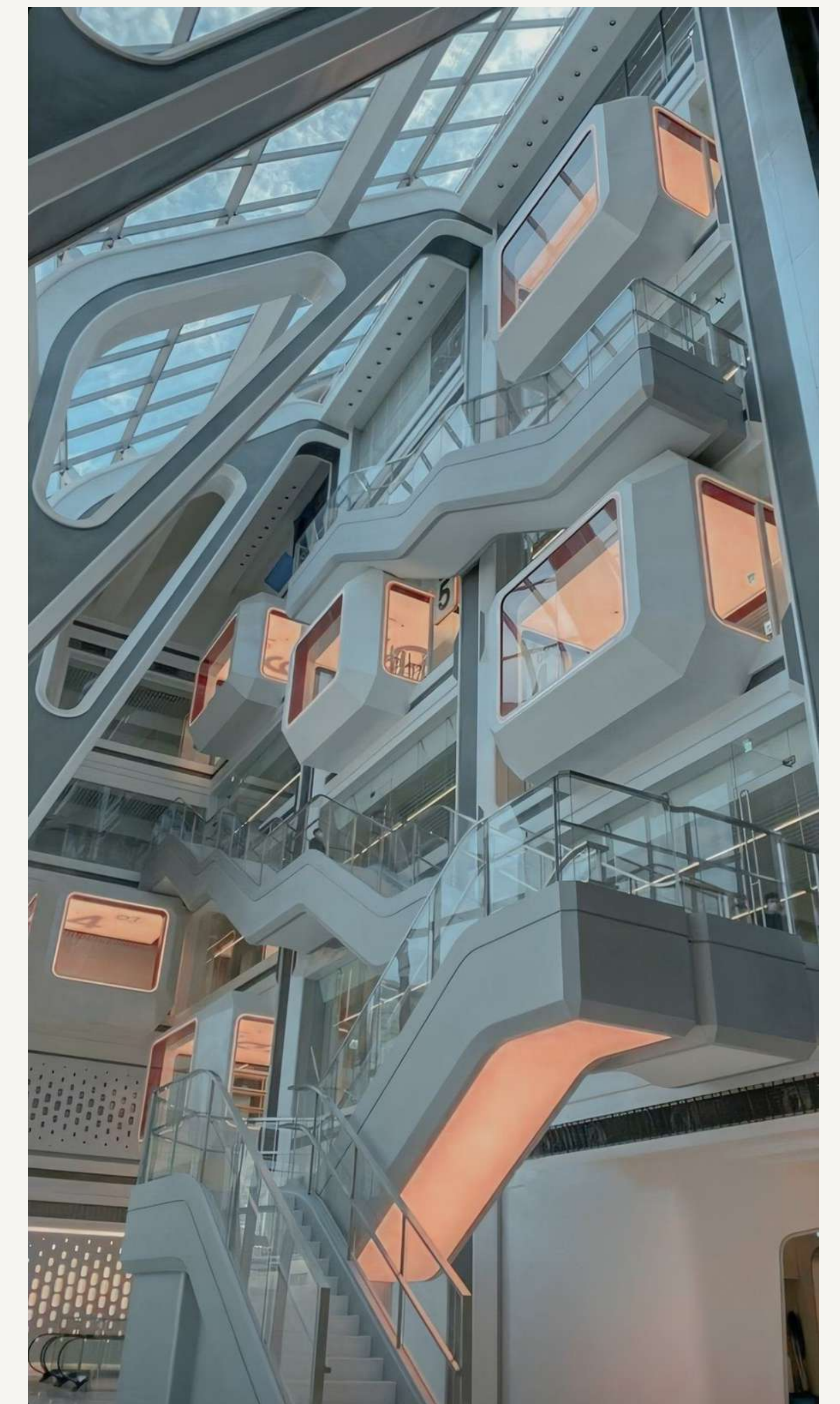
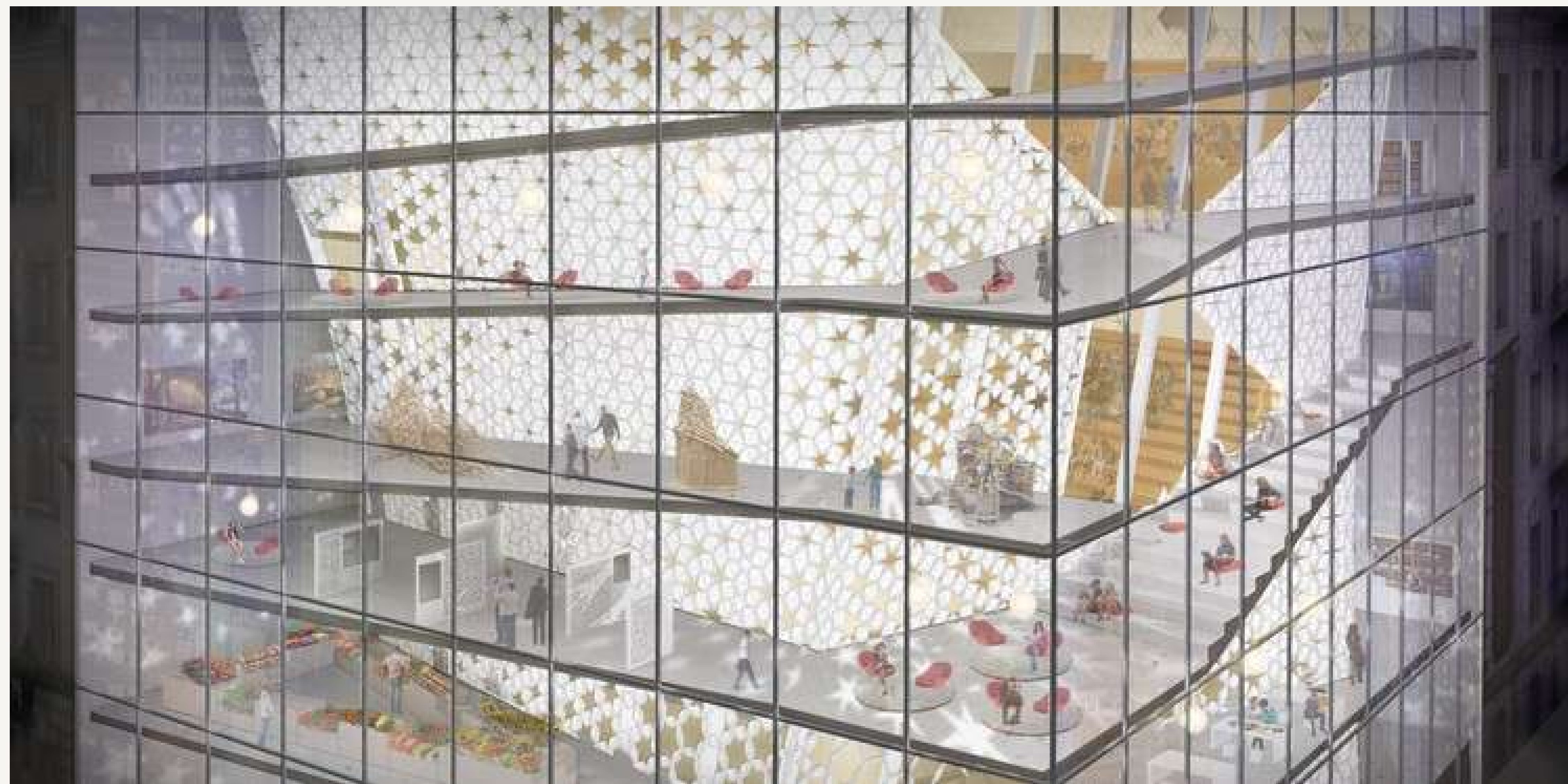


Vertical Landscape

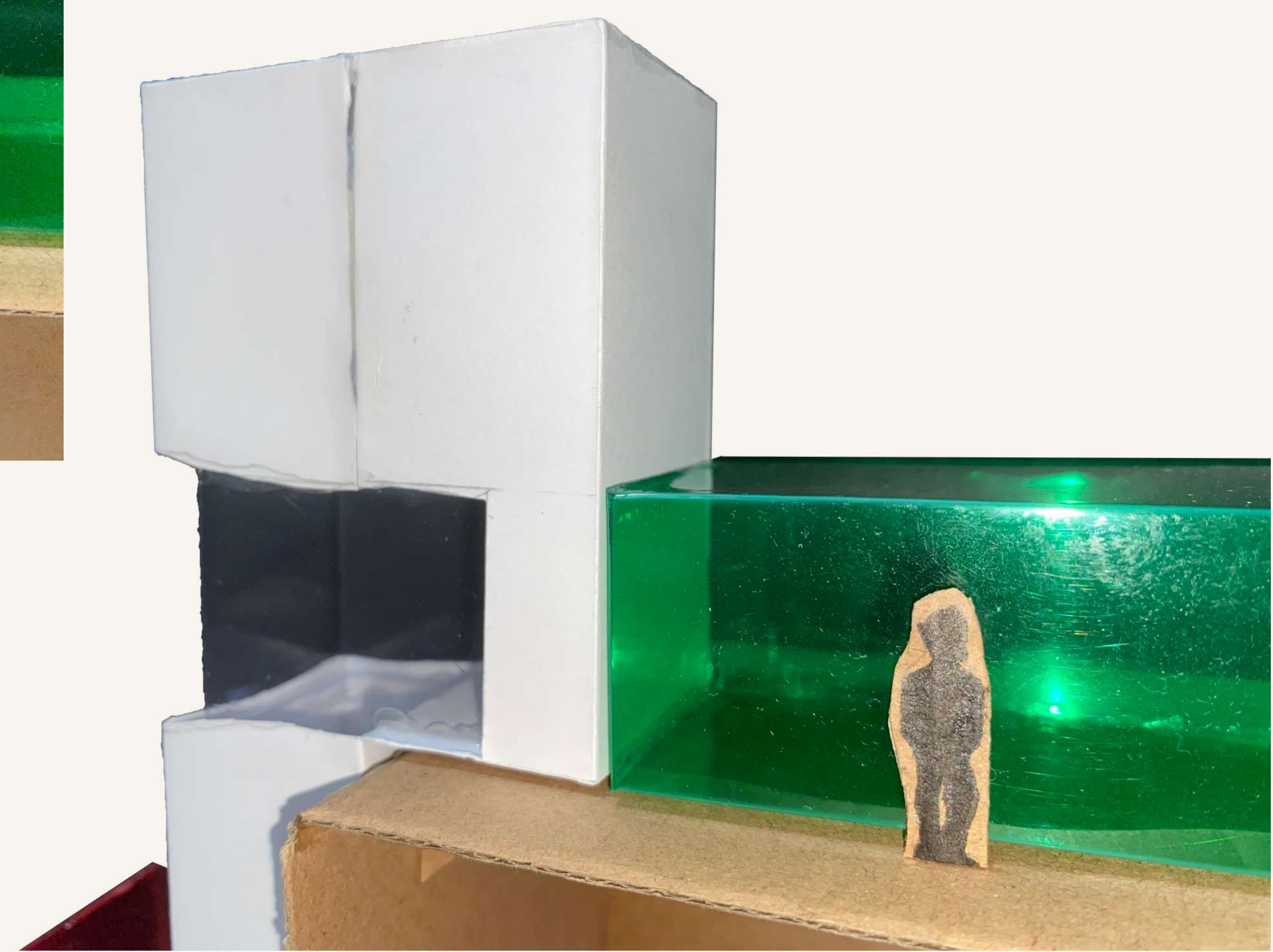
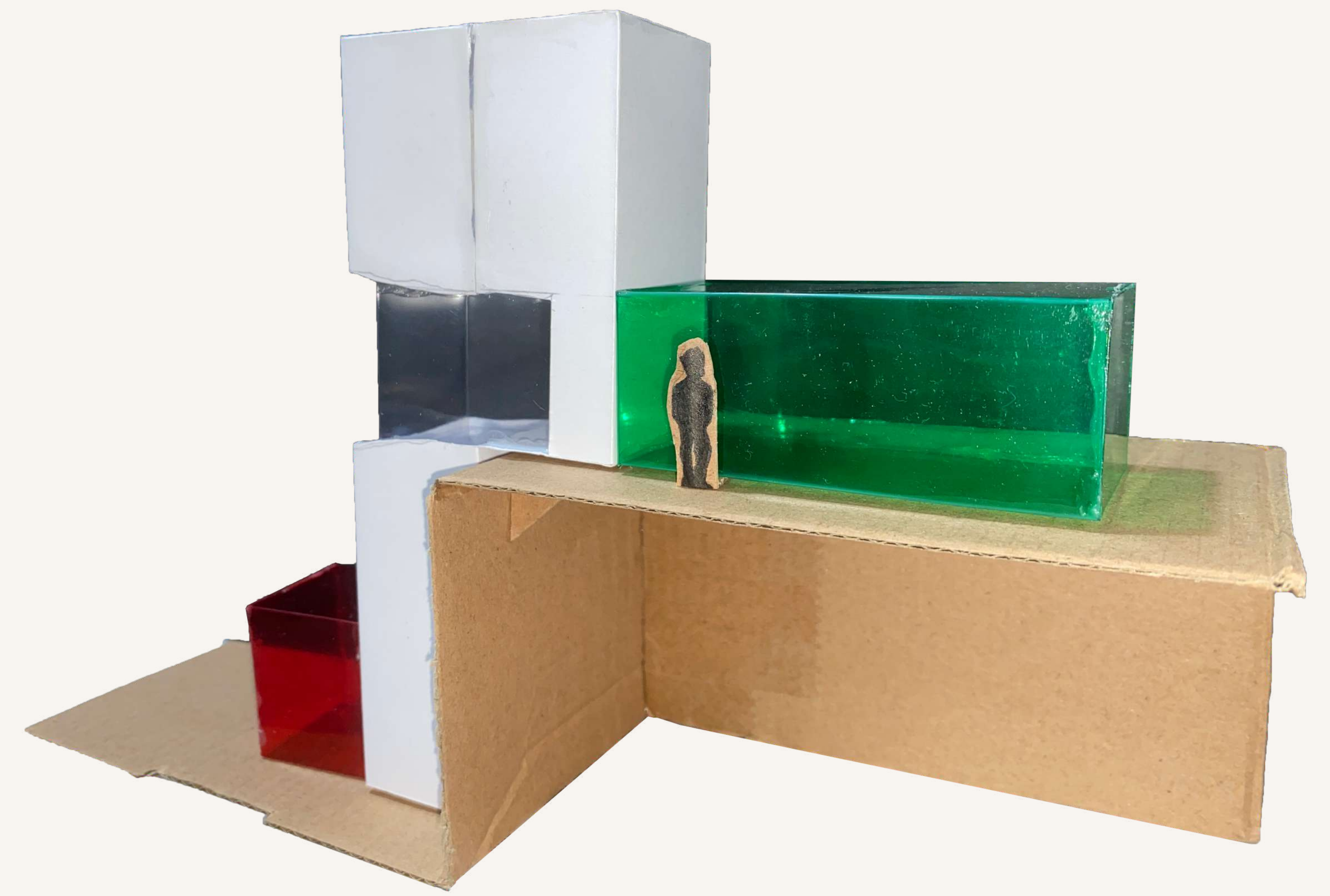


YG Entertainment  
new building

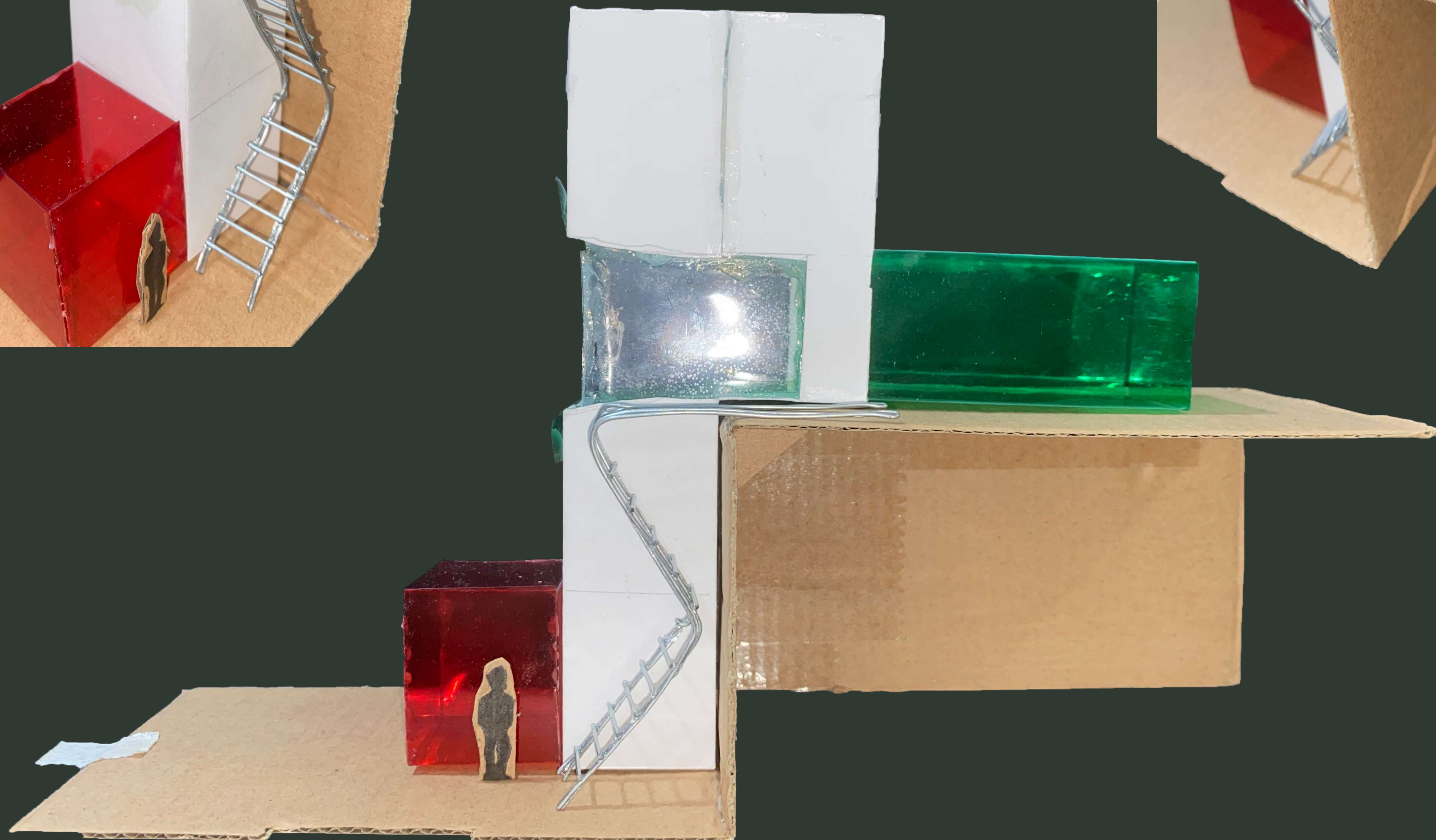
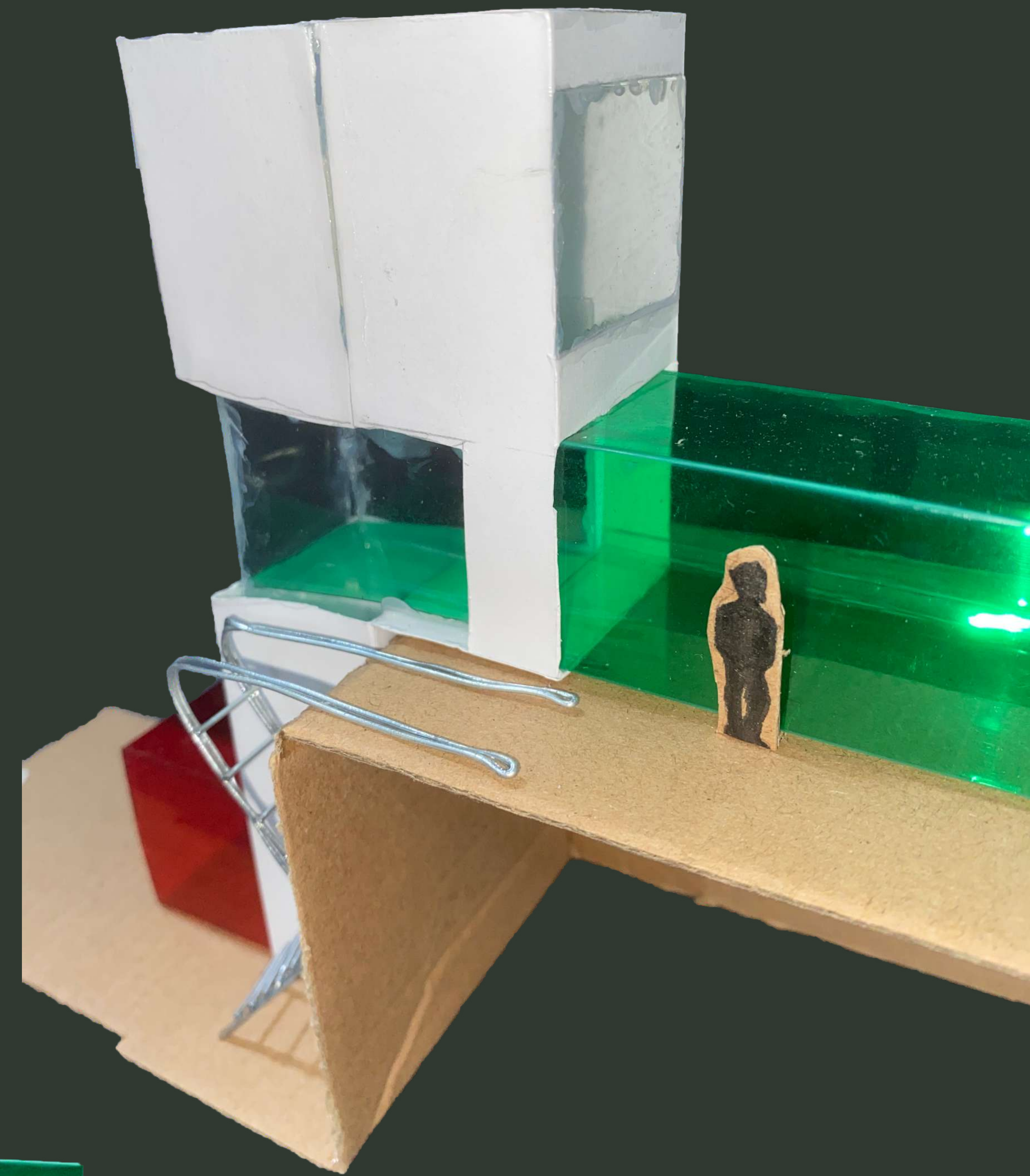
MOVE | 2021



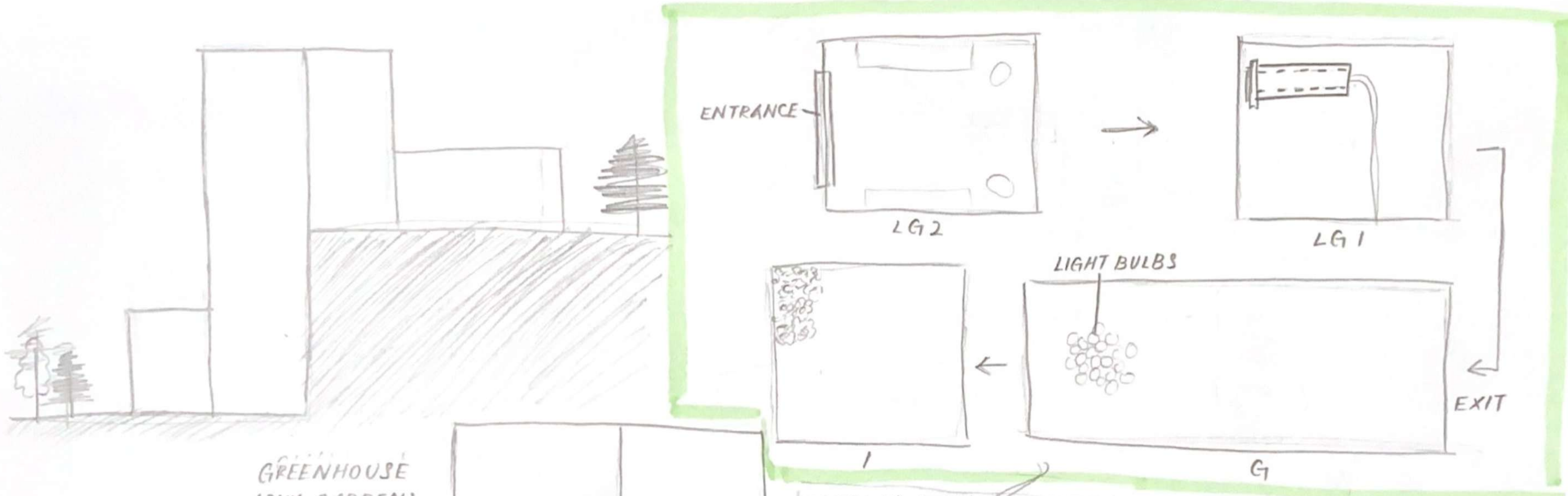












GREENHOUSE  
(SKY GARDEN)

1

JOGGING PATH  
- INTERNAL (?)  
- PASS THROUGH IN BETW.  
FLOORS

CHILL AREA

G

LIGHT BULB  
CHANDELIER

NAME ON WALL

EXIT

GYM  
+  
GENERATE  
ELECTRICITY

LG1

UNDERGROUND ELECTRICAL SYSTEM → TENAGA NATIONAL SYSTEM

LOBBY

LG2

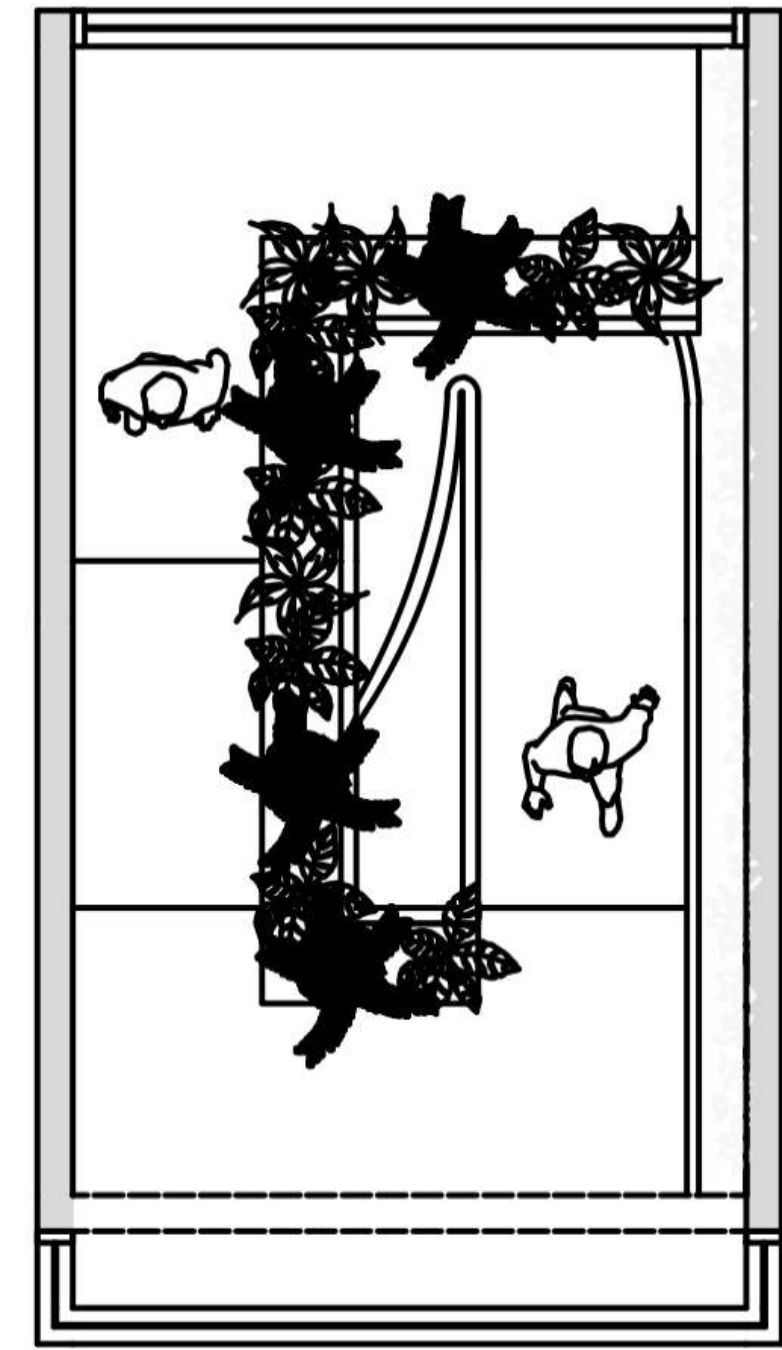
- MACHINES FOR  
SELF REGISTRATION  
- SHOE LOCKERS

ENTRANCE

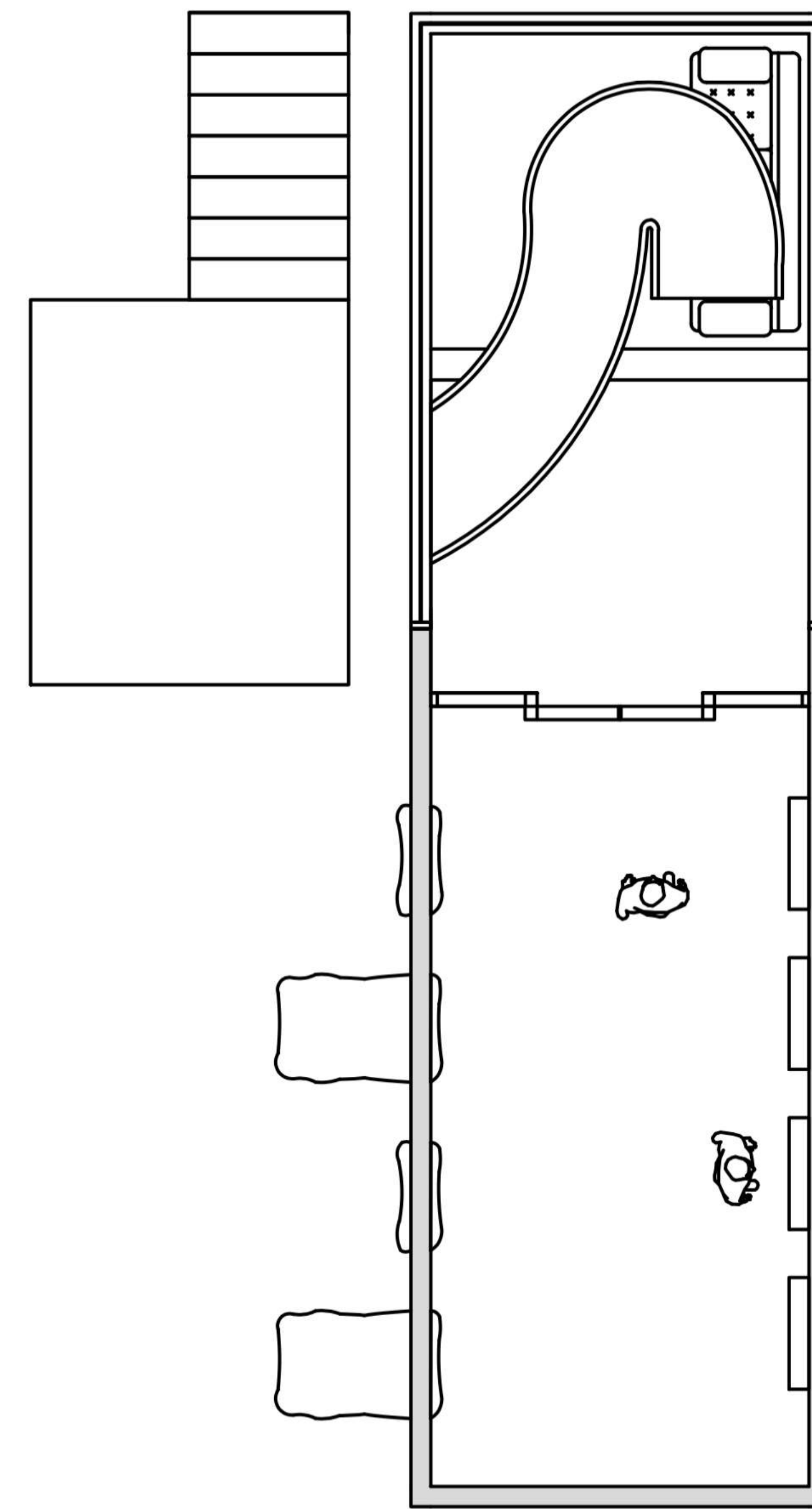
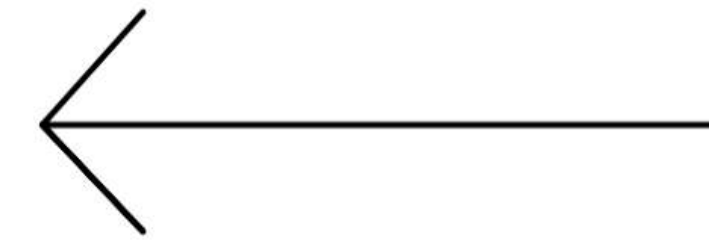


# PLANS

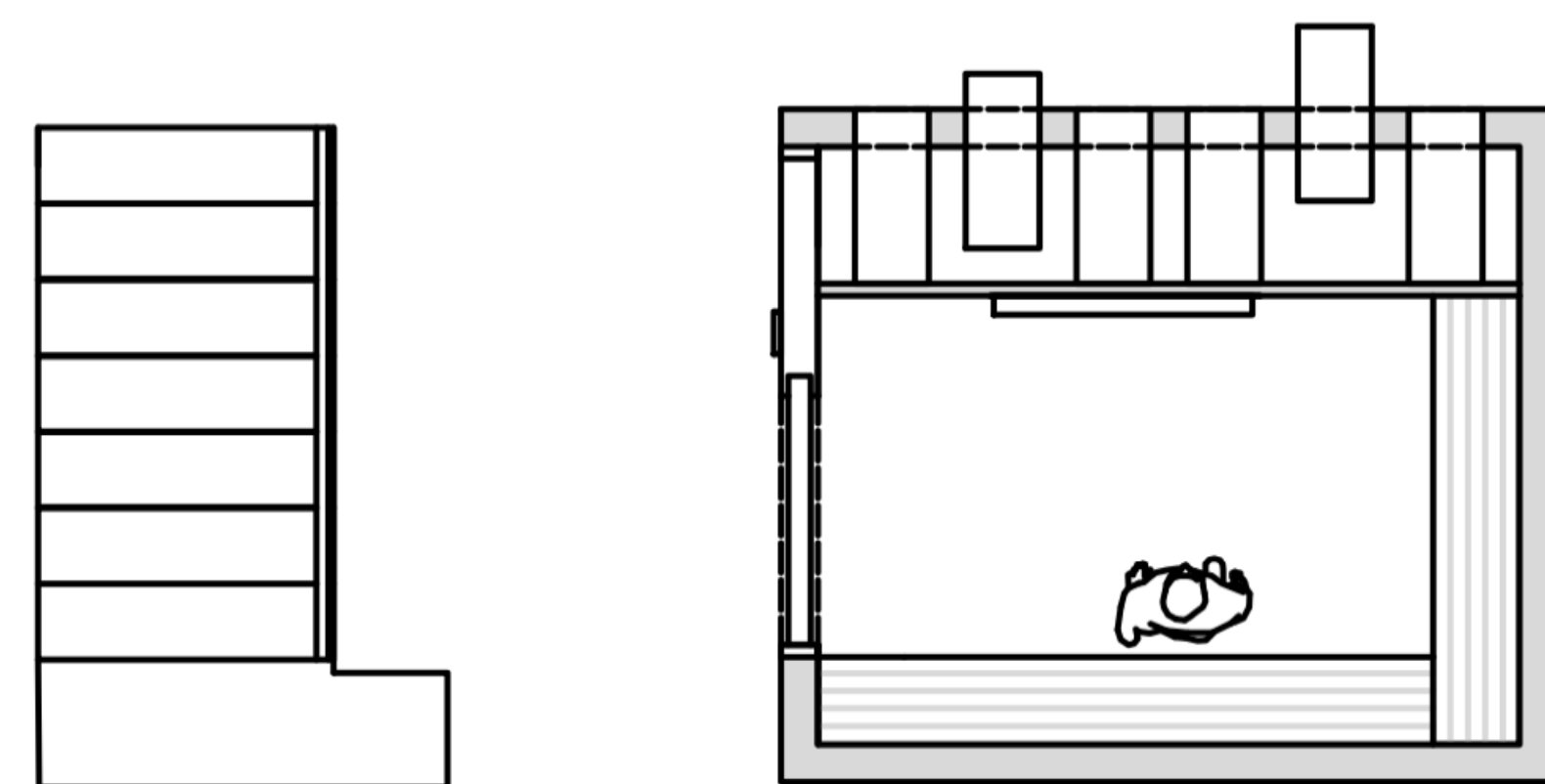
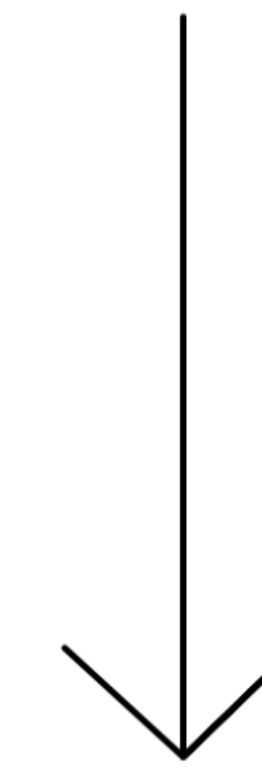
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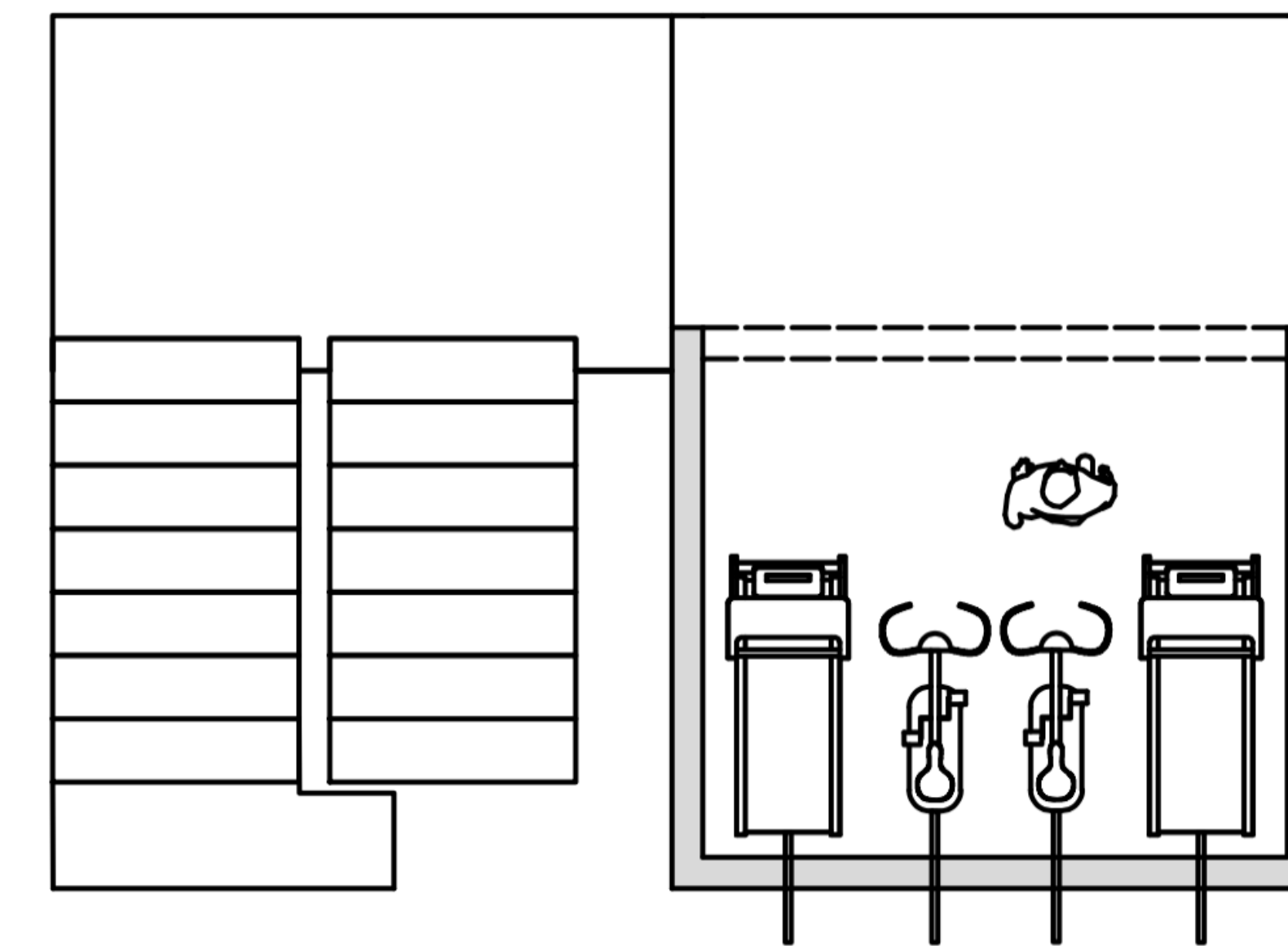
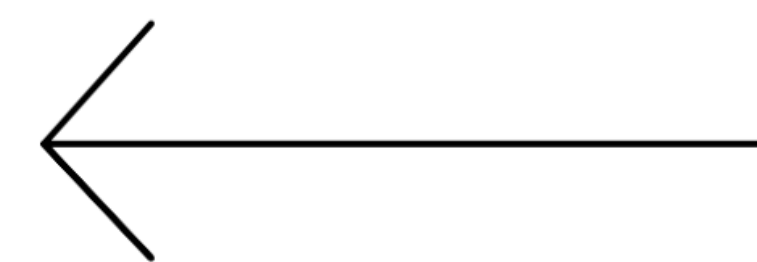
FIRST FLOOR



GROUND FLOOR



LOWER GROUND  
FLOOR 2



LOWER GROUND  
FLOOR 1

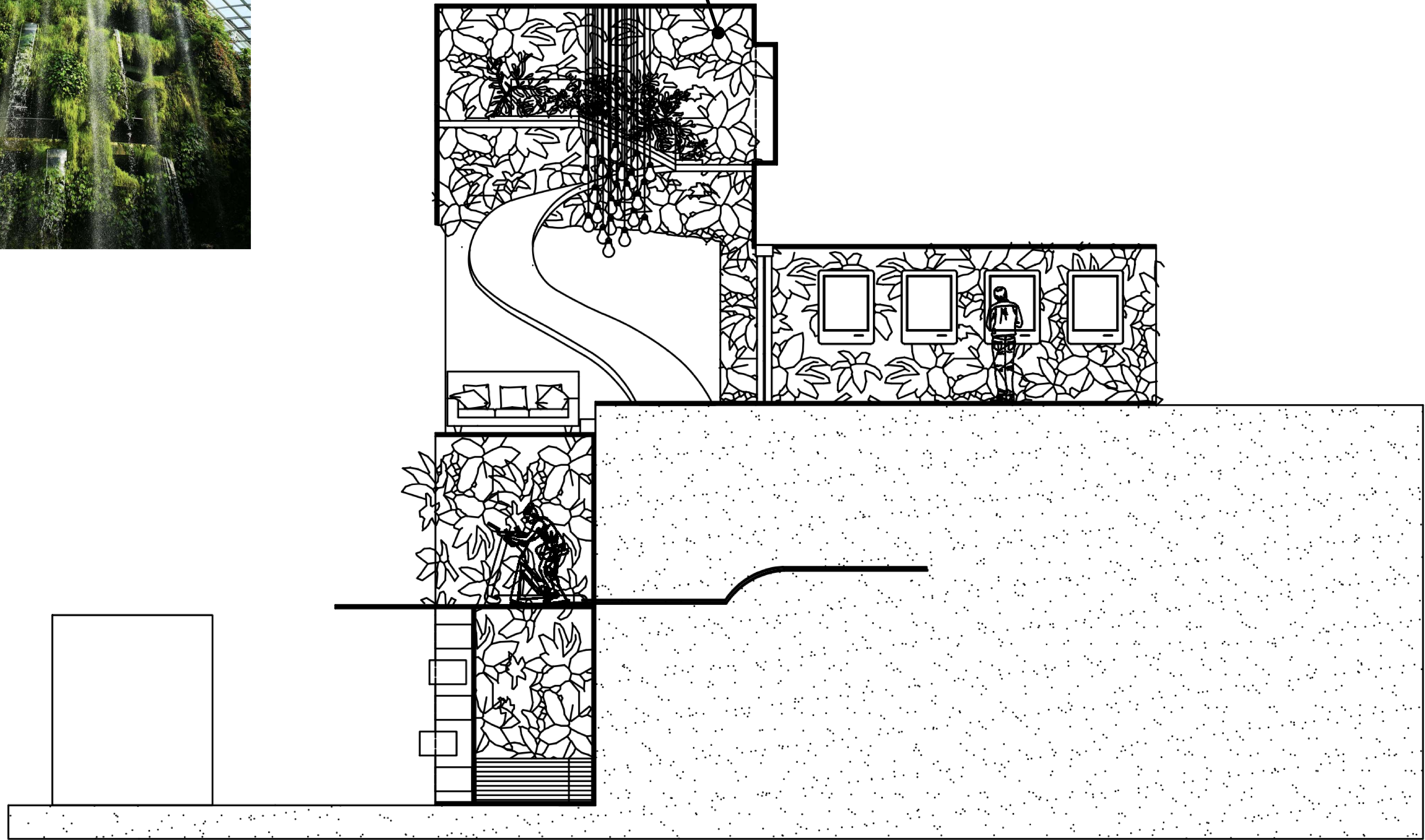






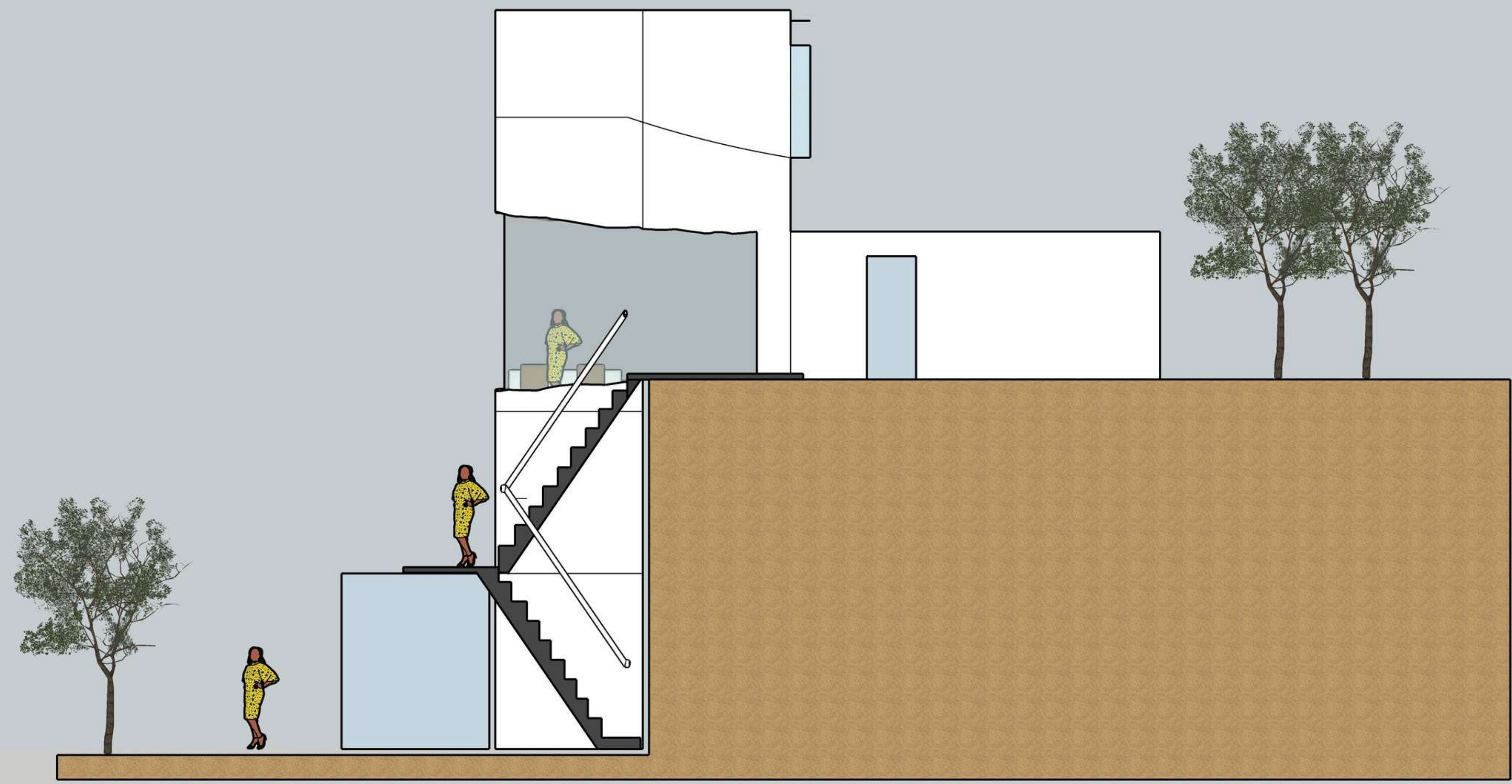


Plant wall with waterfall  
- Using hydroelectric to generate power

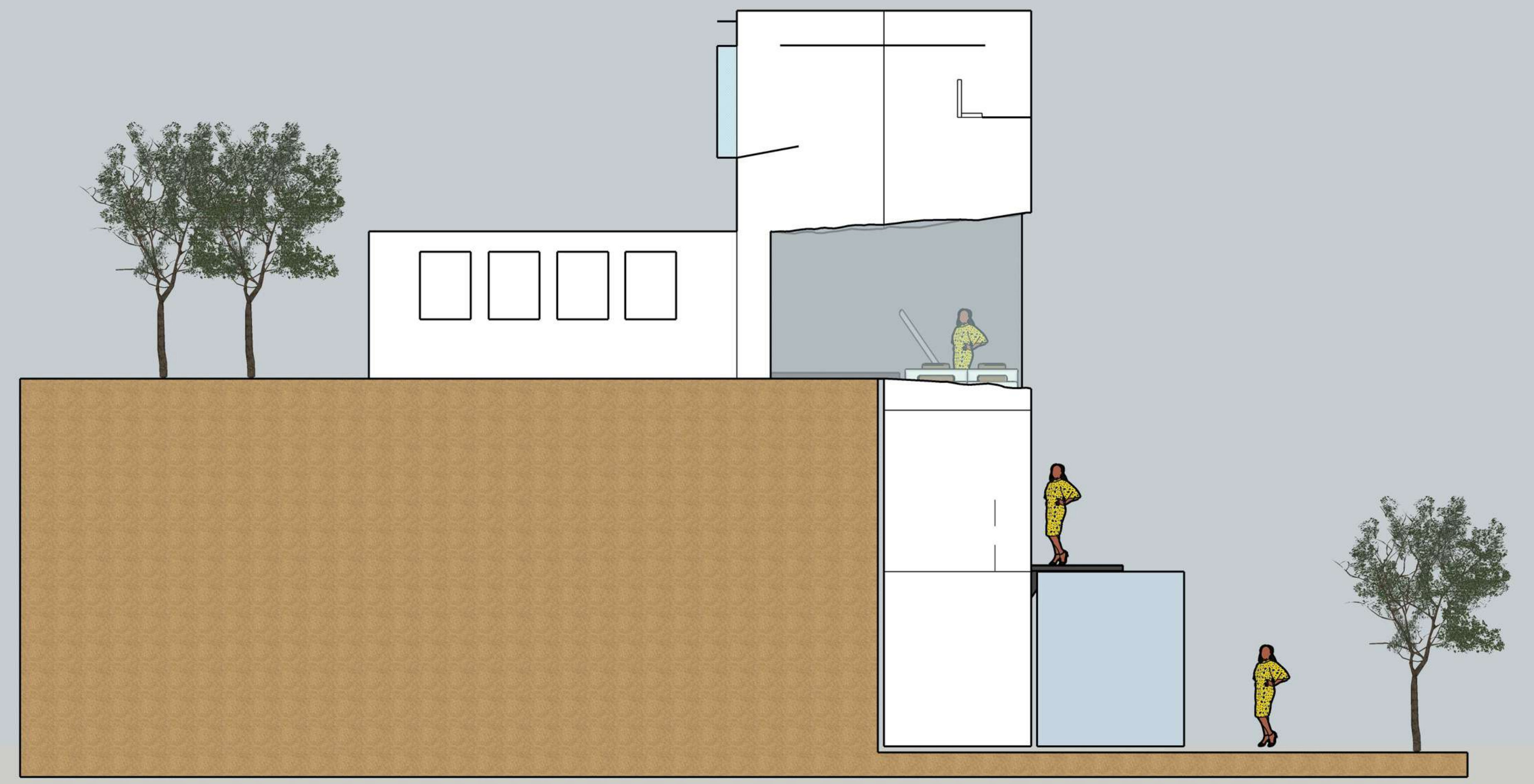


LEFT SECTION





**Left Elevation**



**Right Elevation**



**Isometric**



**Entrance**





GYM -> SHOE  
WORKSHOP.

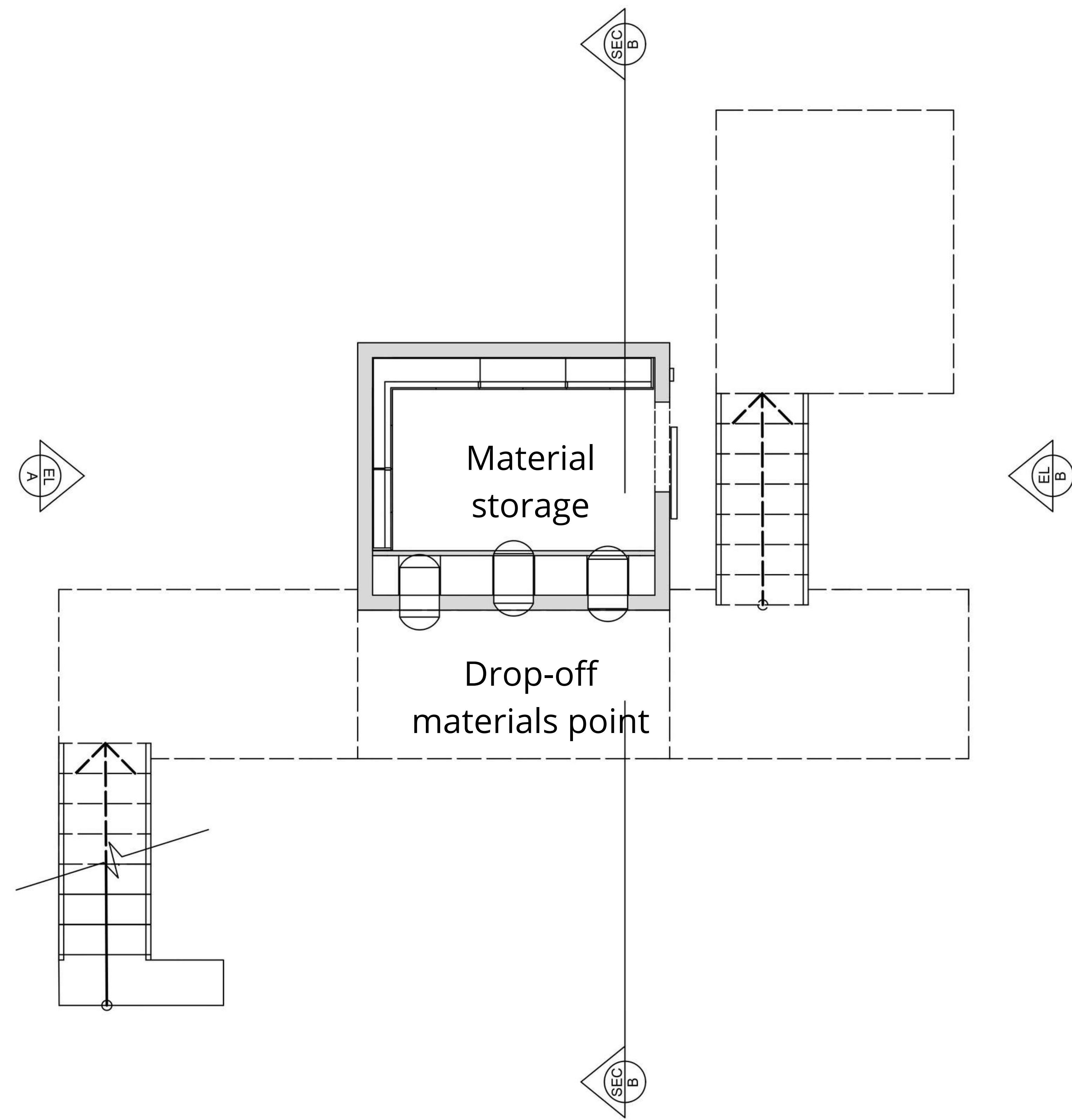




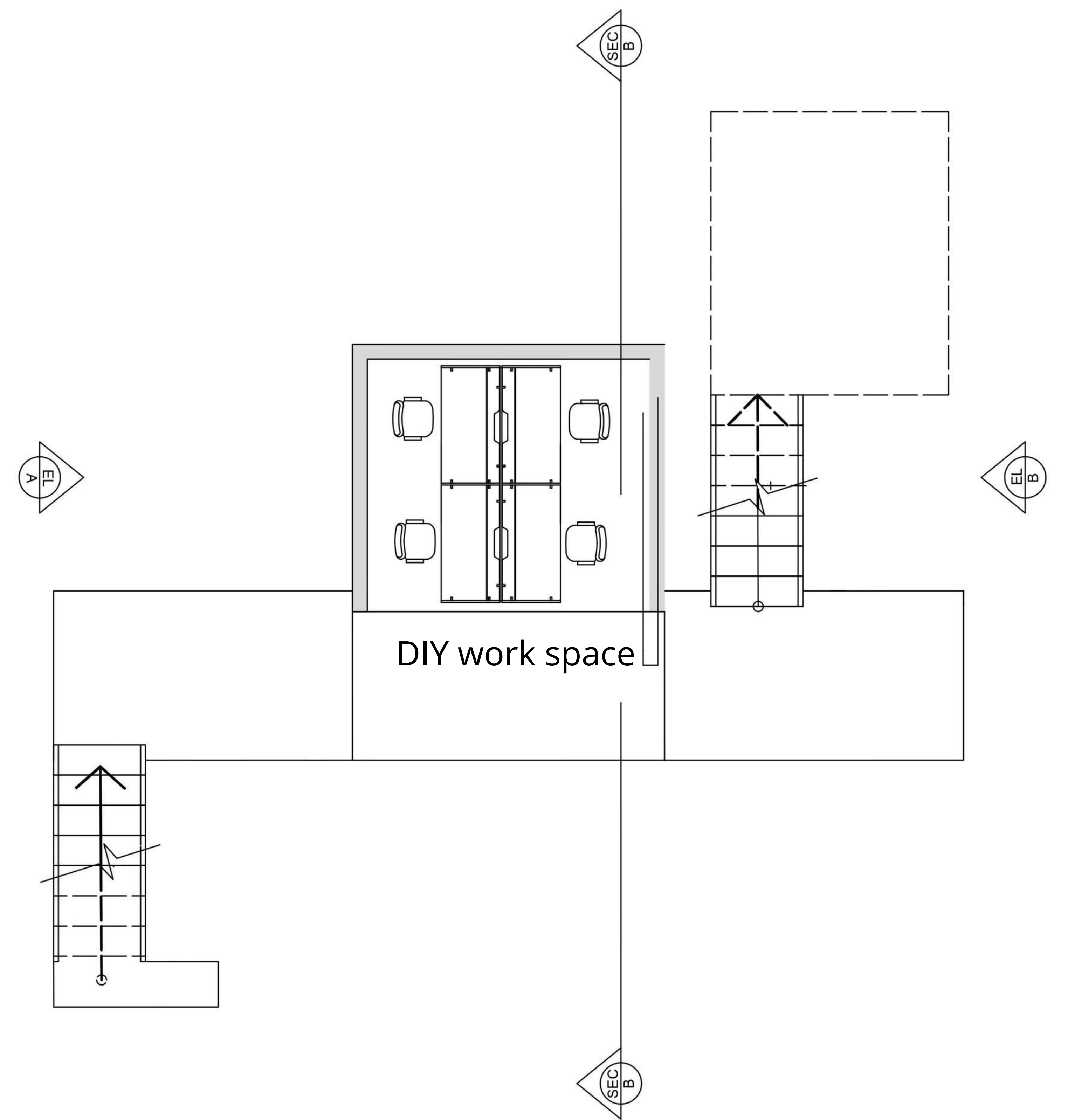
INITIAL DESIGN.



# VER. 1

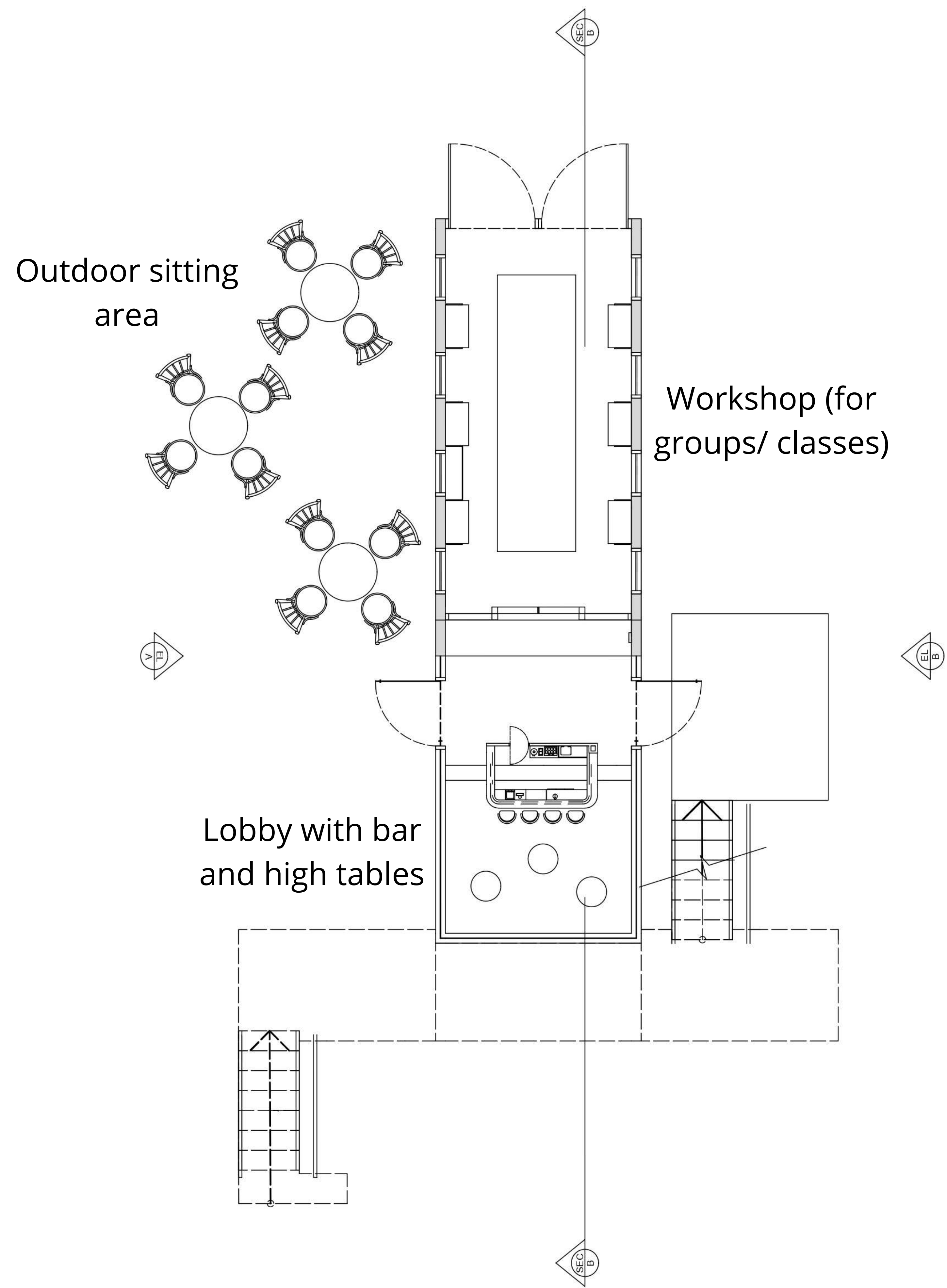


PLN GROUND FLOOR PLAN  
A SCALE 1:50

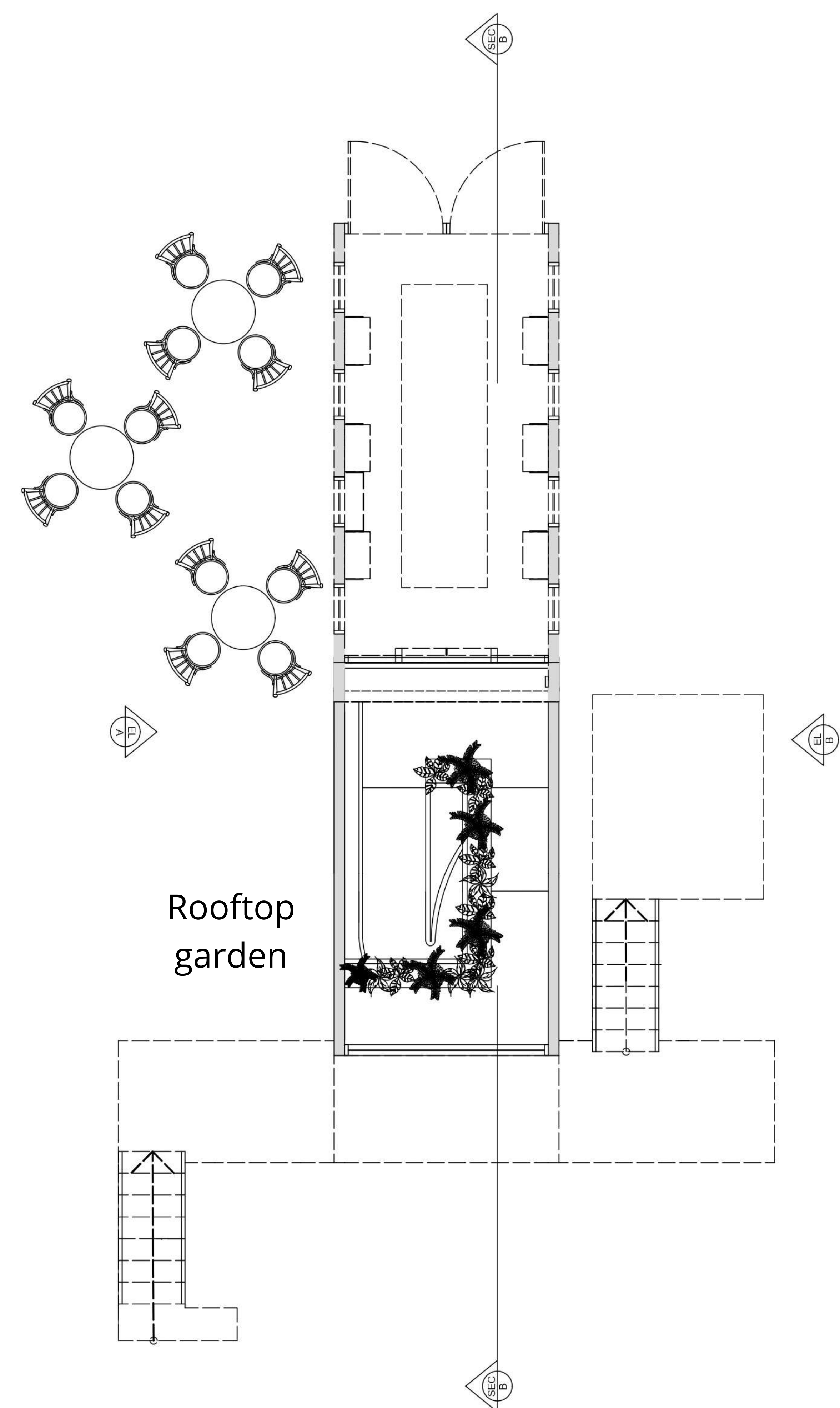


PLN FIRST FLOOR PLAN  
B SCALE 1:50



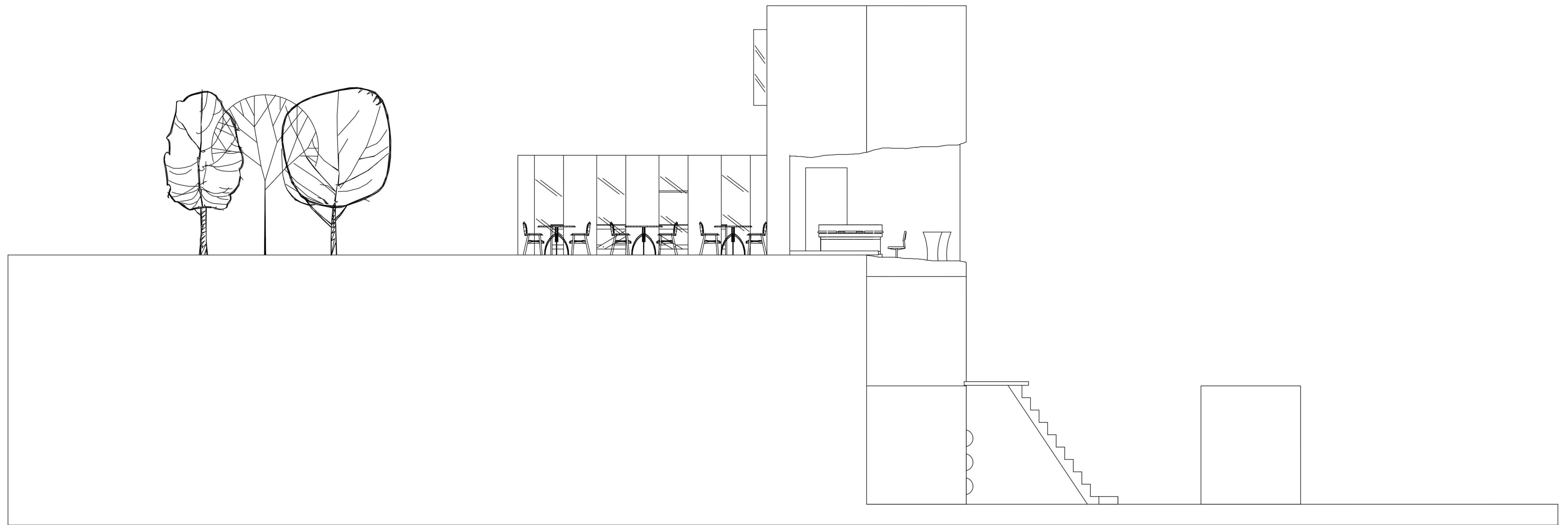


PLN SECOND FLOOR PLAN  
C SCALE 1:50



PLN THIRD FLOOR PLAN  
D SCALE 1:50



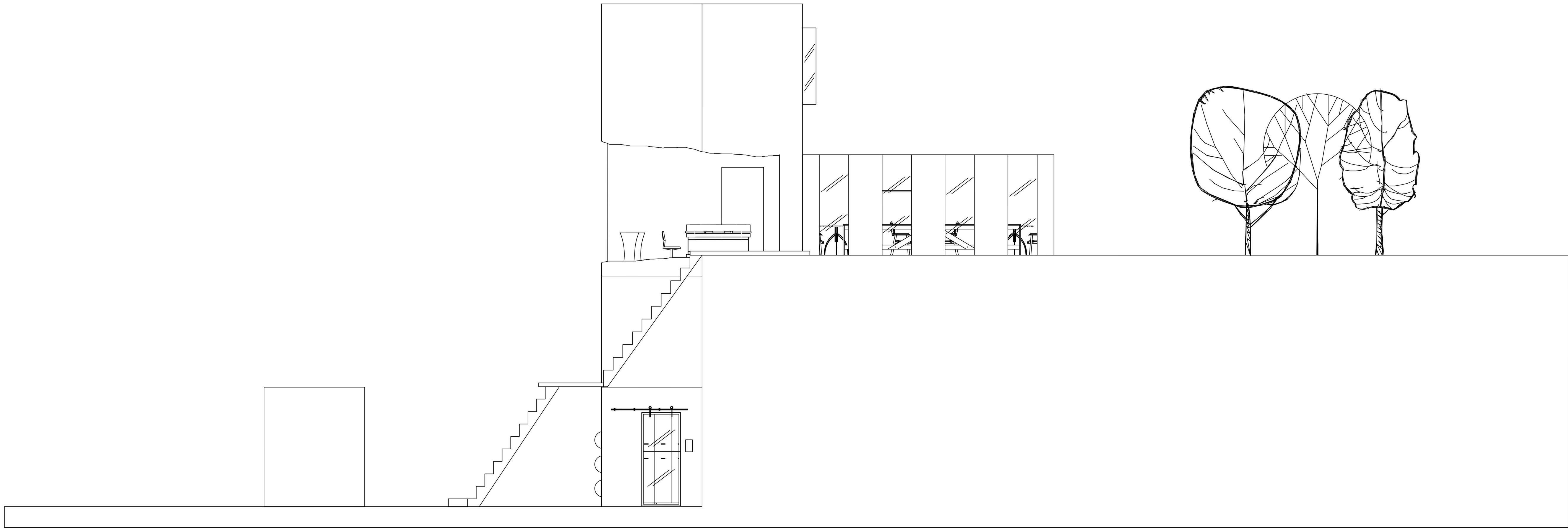


EL  
A

ELEVATION A

SCALE 1: 50



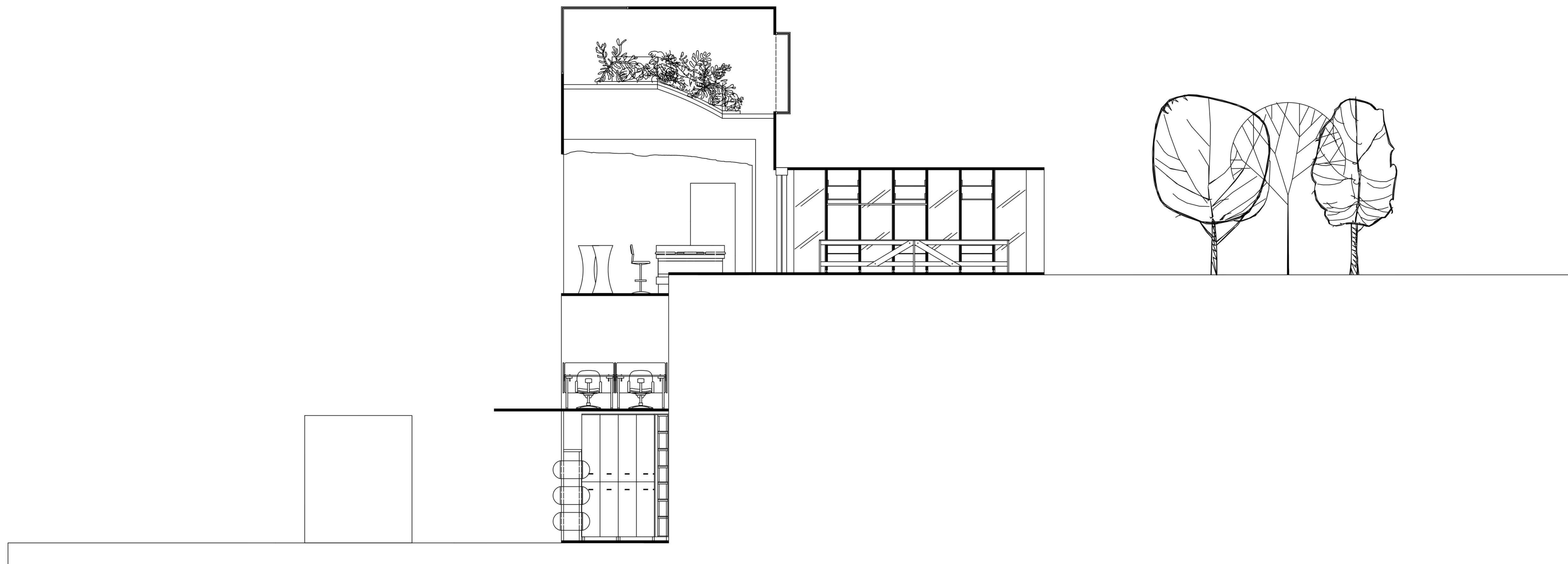


EL  
B

ELEVATION B

SCALE 1: 50



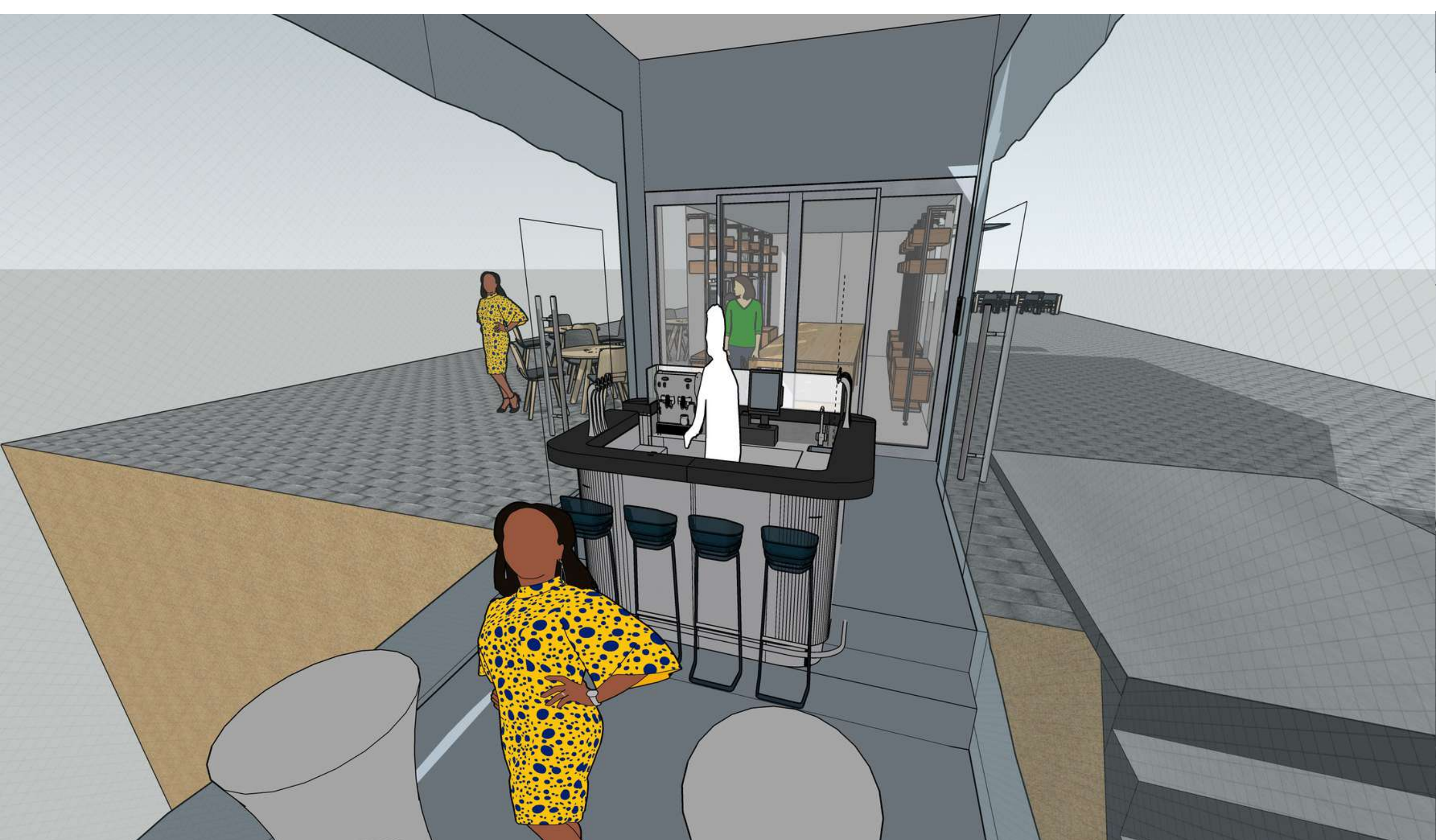
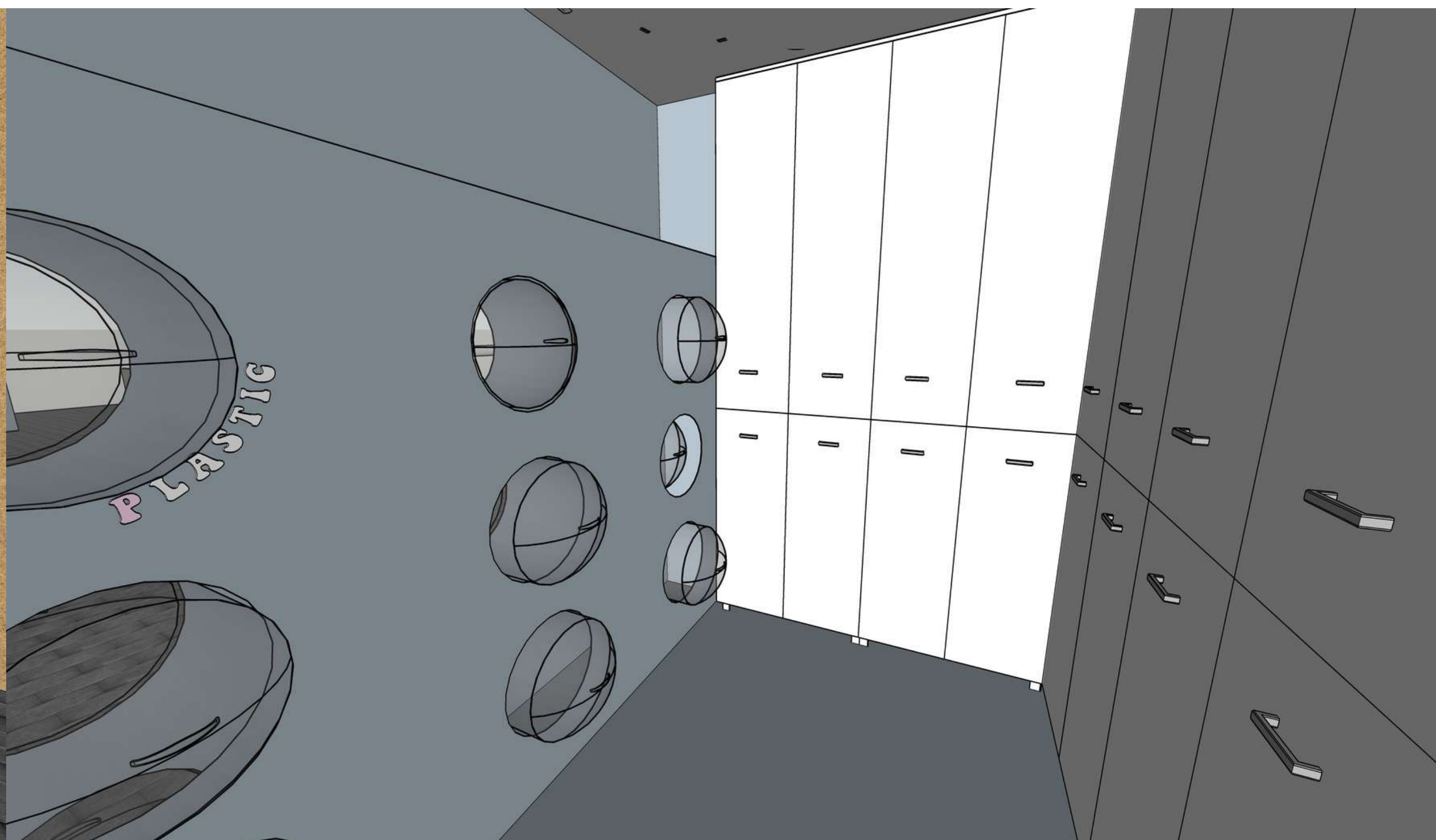
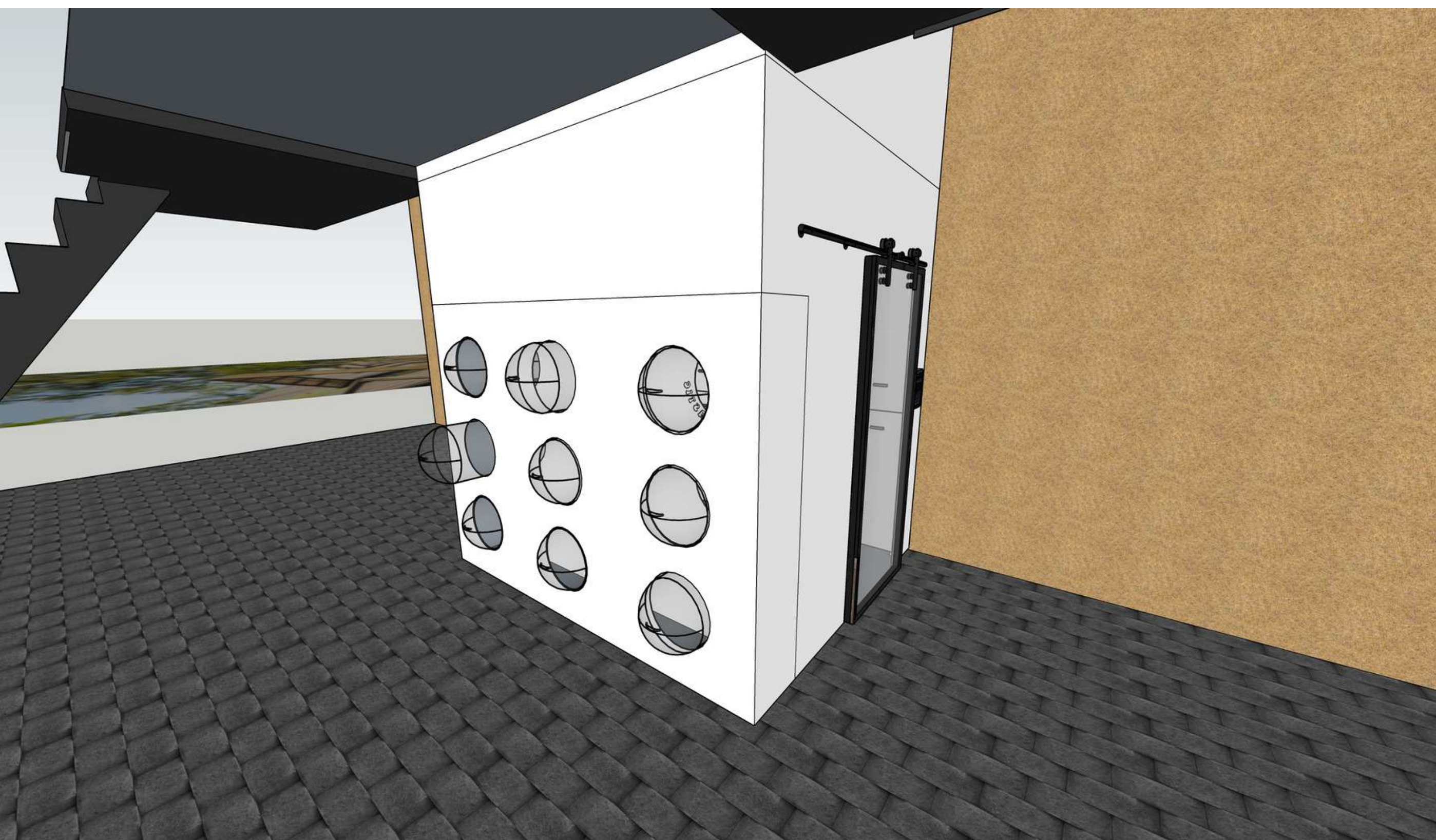


SEC  
B

SECTION B

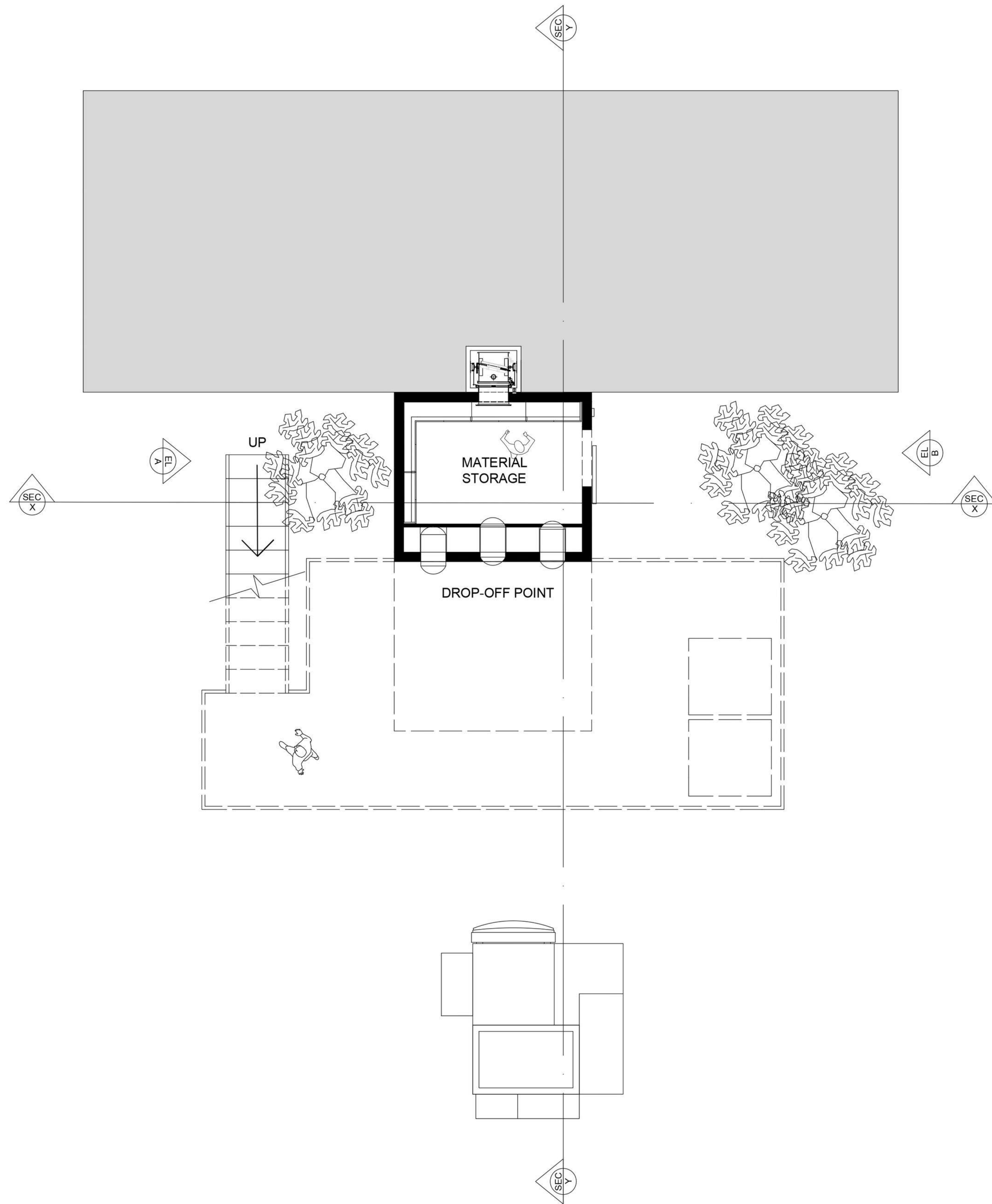
SCALE 1: 50



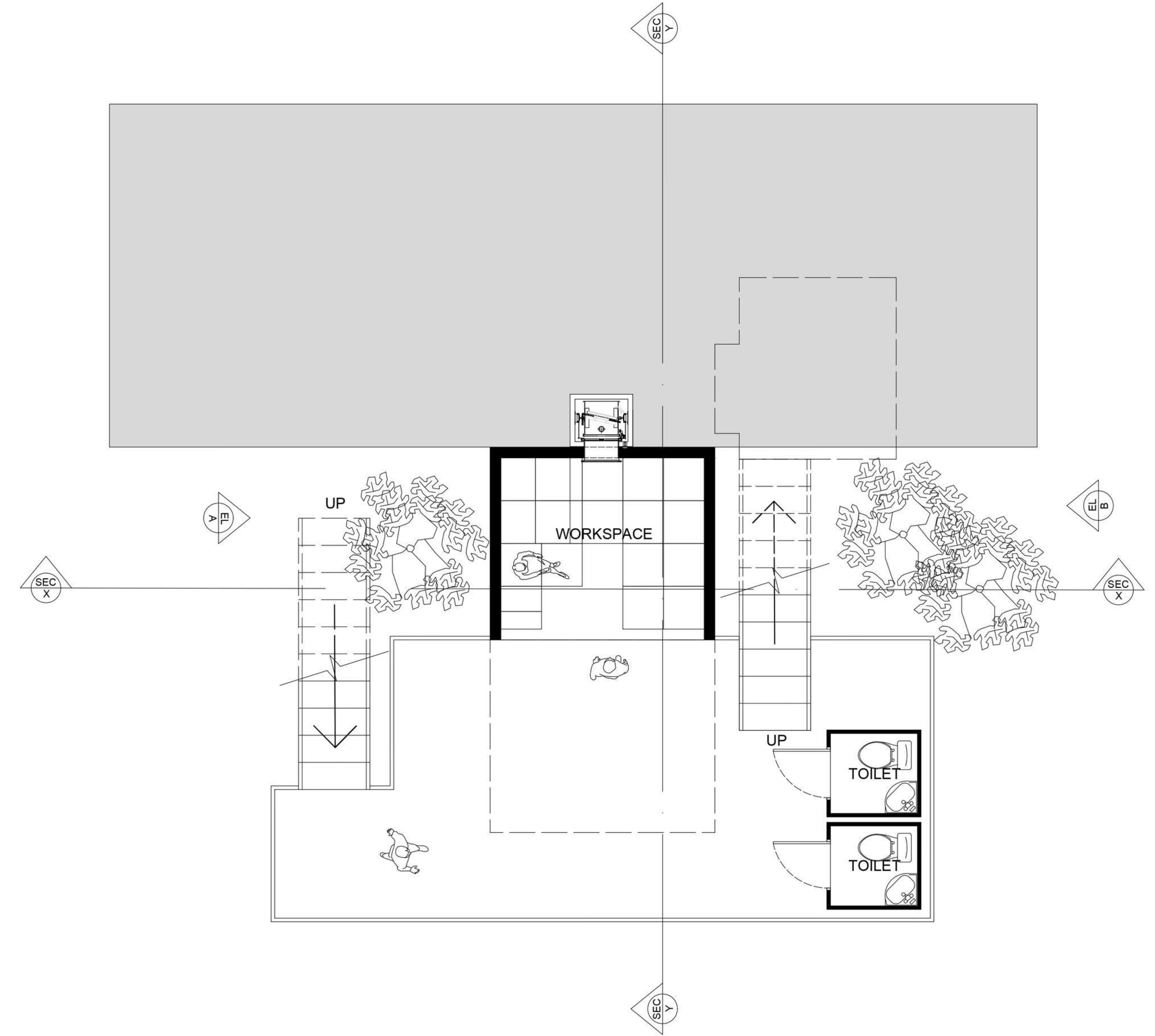




# VER. 2

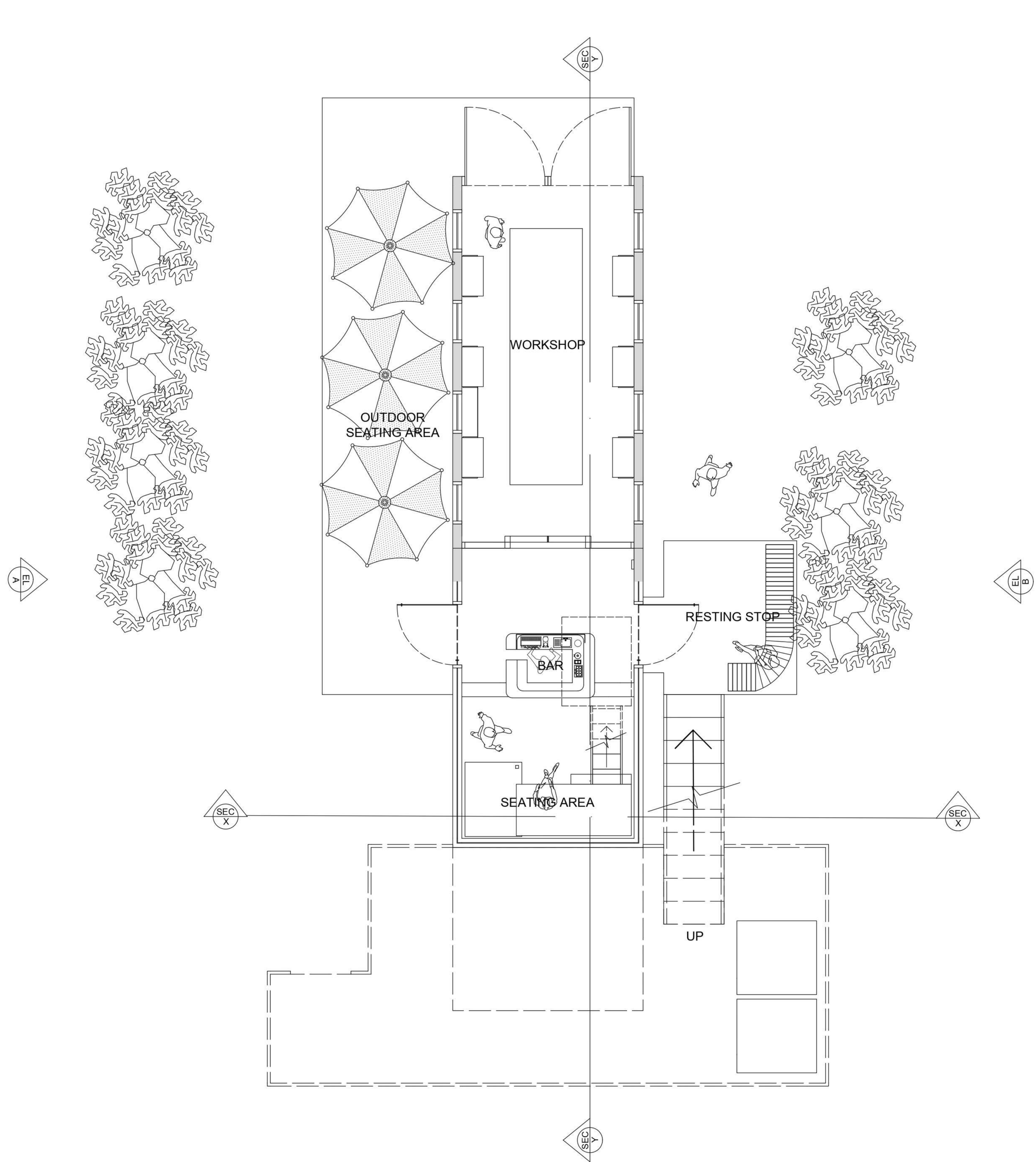


PLN GROUND FLOOR PLAN  
A SCALE 1:50

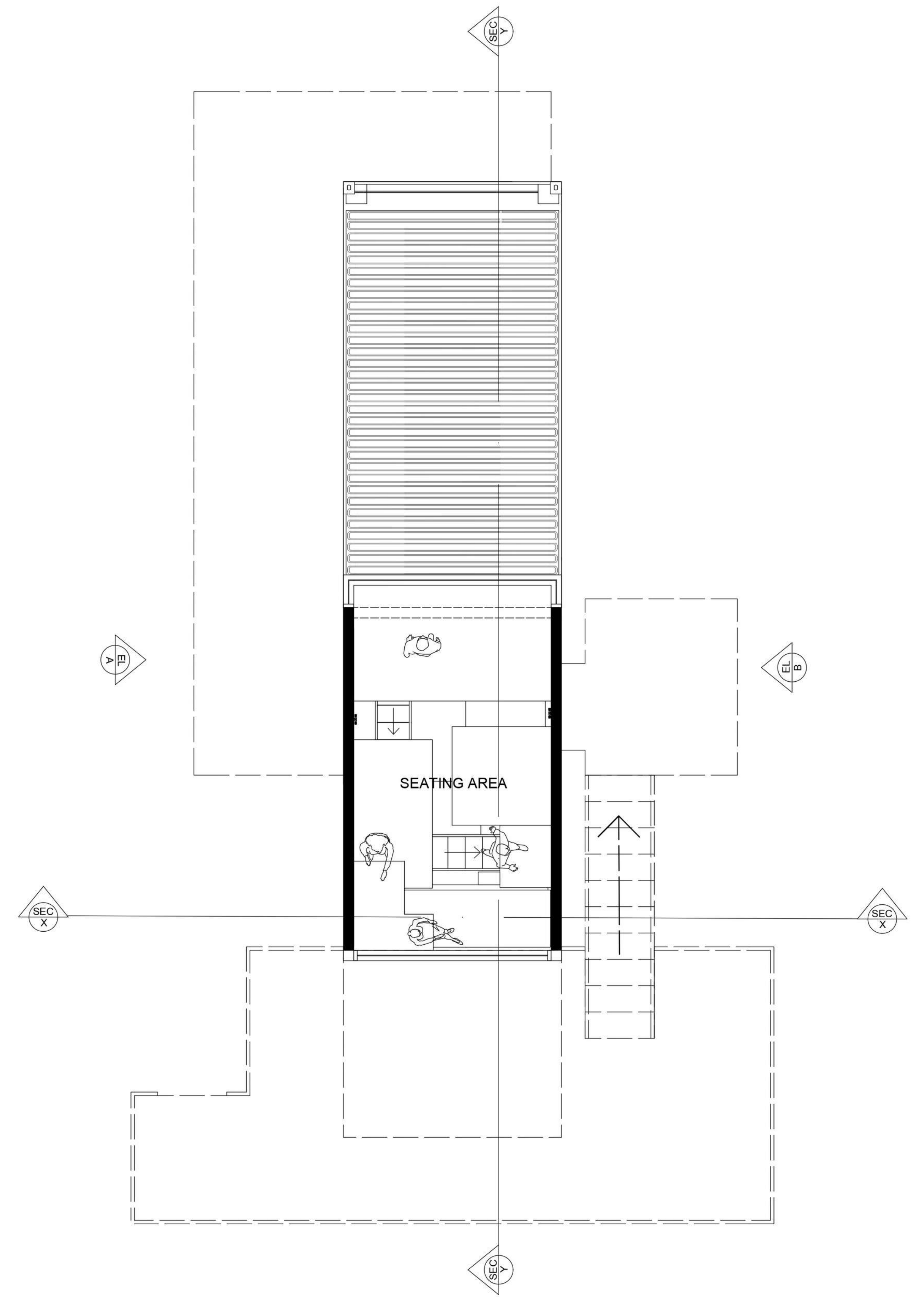


PLN FIRST FLOOR PLAN  
B SCALE 1:50



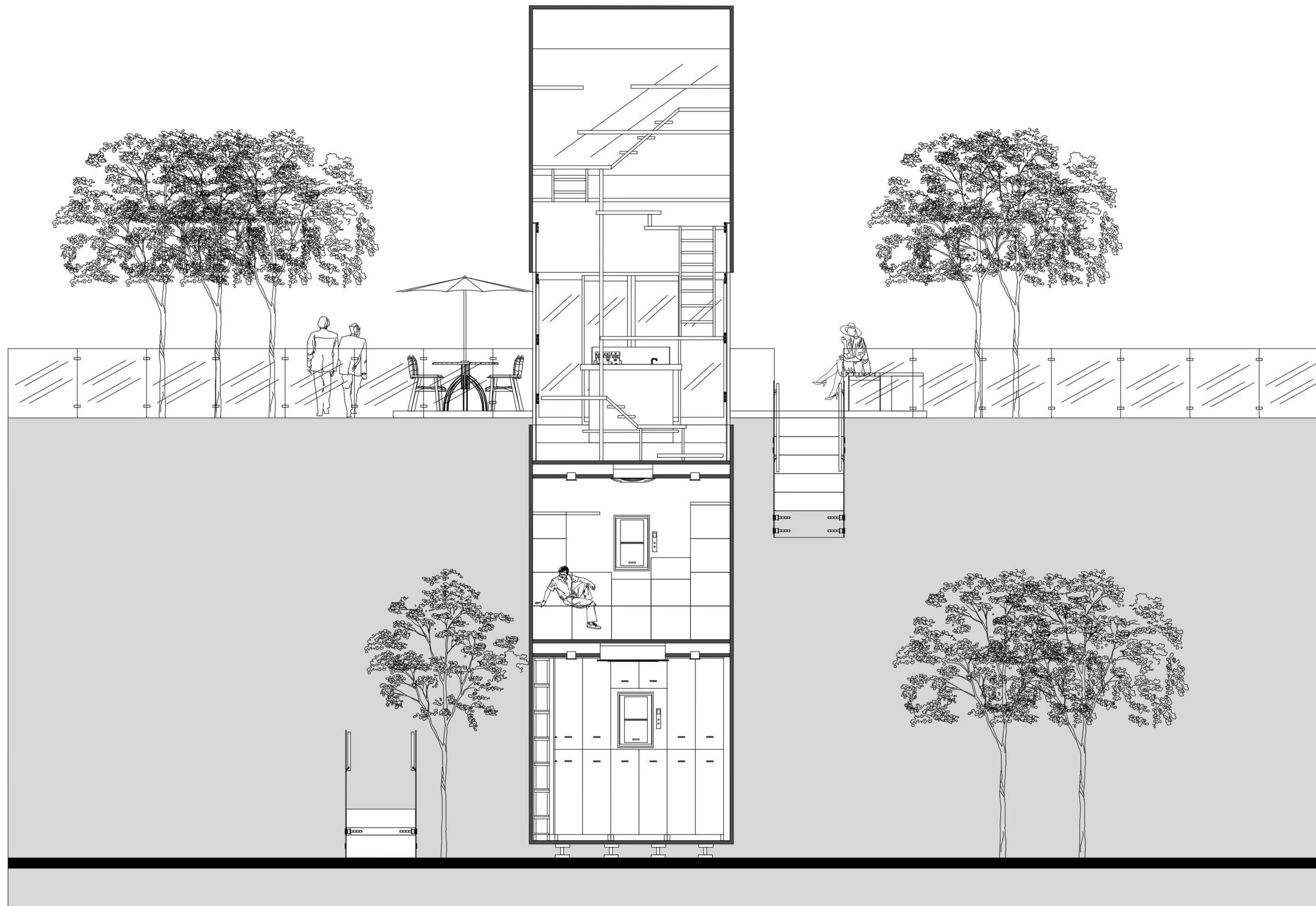


PLN C SECOND FLOOR PLAN  
SCALE 1:50



PLN D THIRD FLOOR PLAN  
SCALE 1:50



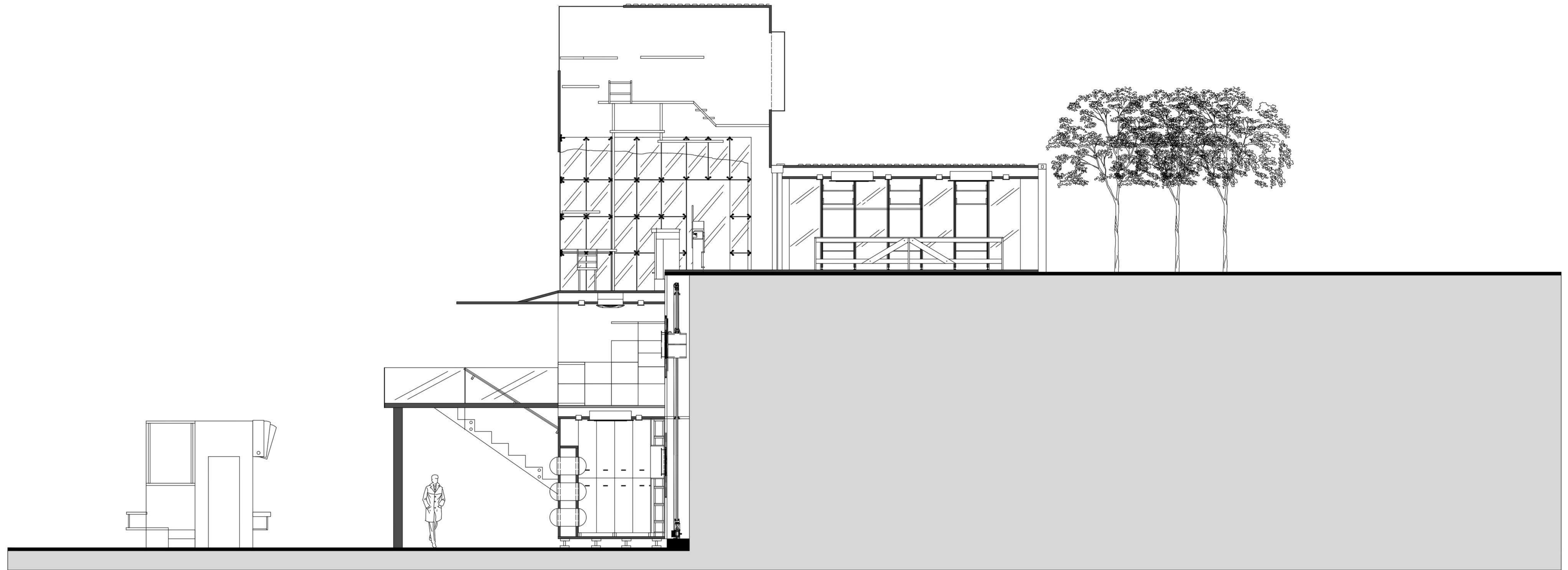


SEC  
X-X

SECTION X-X

SCALE 1: 20





SEC  
Y-Y

SECTION Y-Y

SCALE 1: 20



































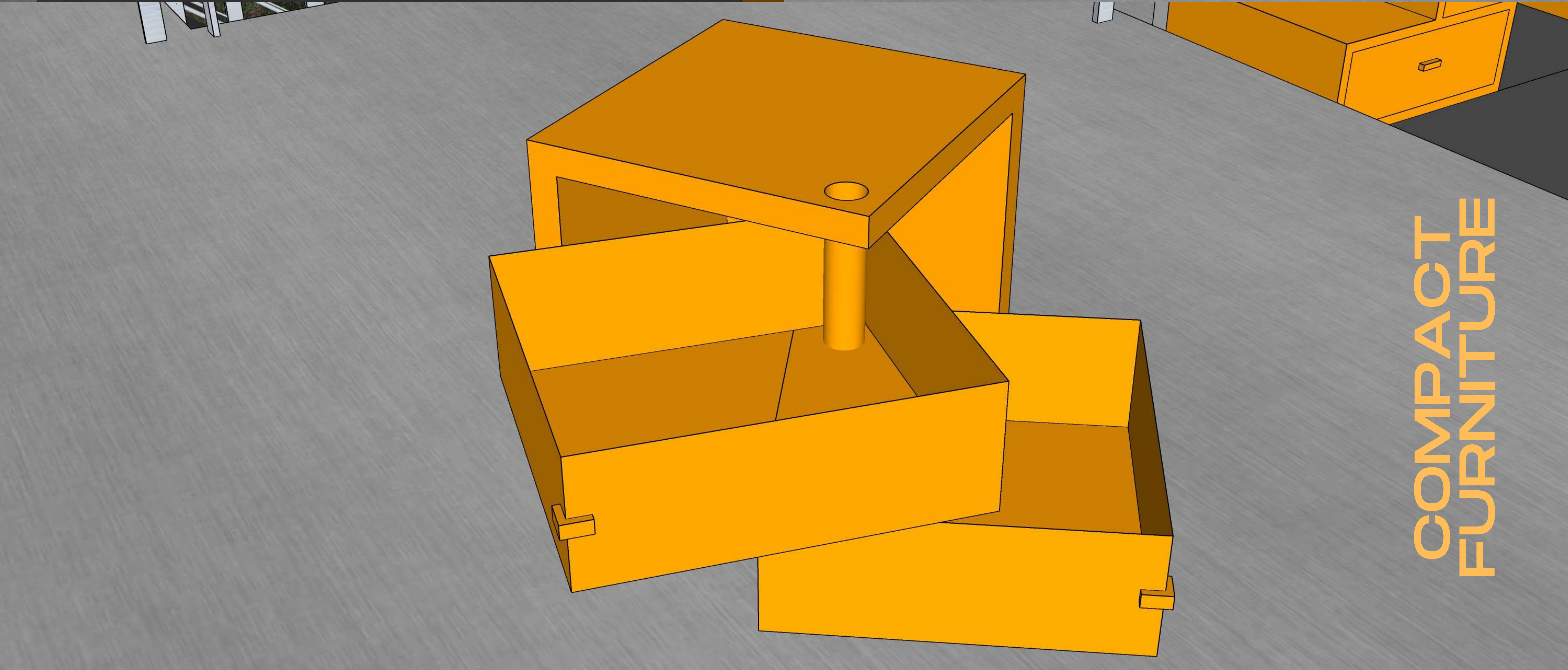
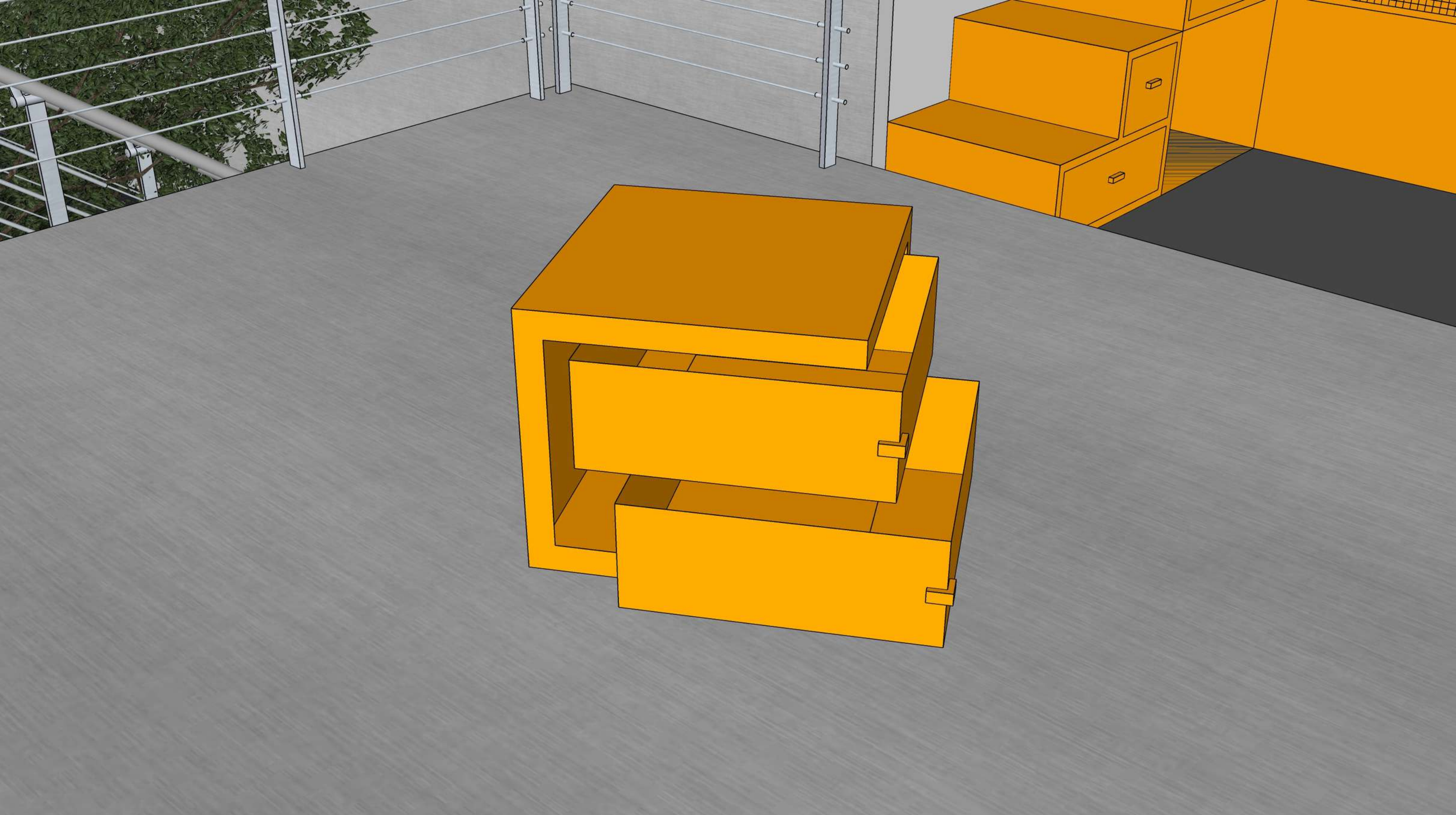






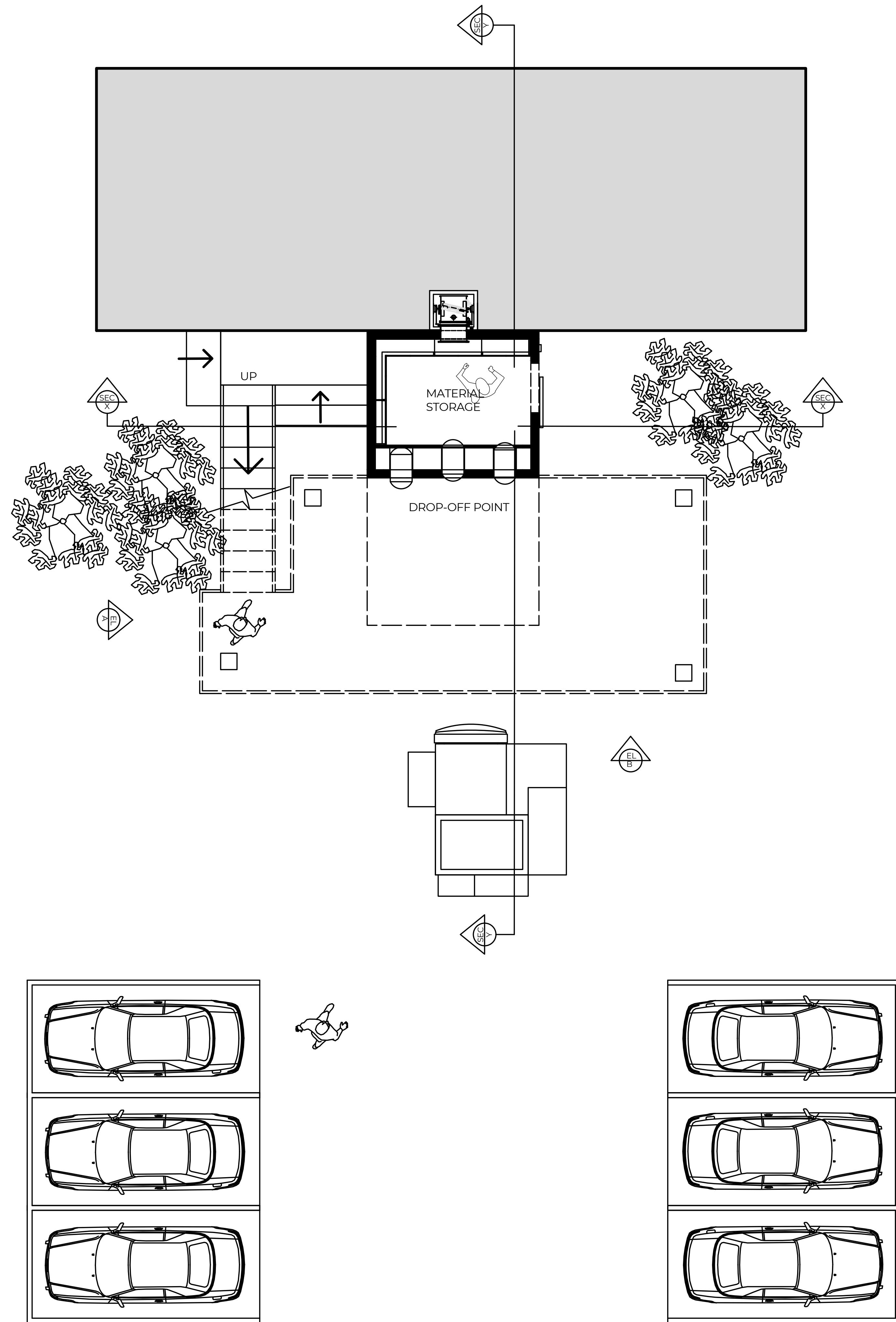
MOCK-UP  
MODEL



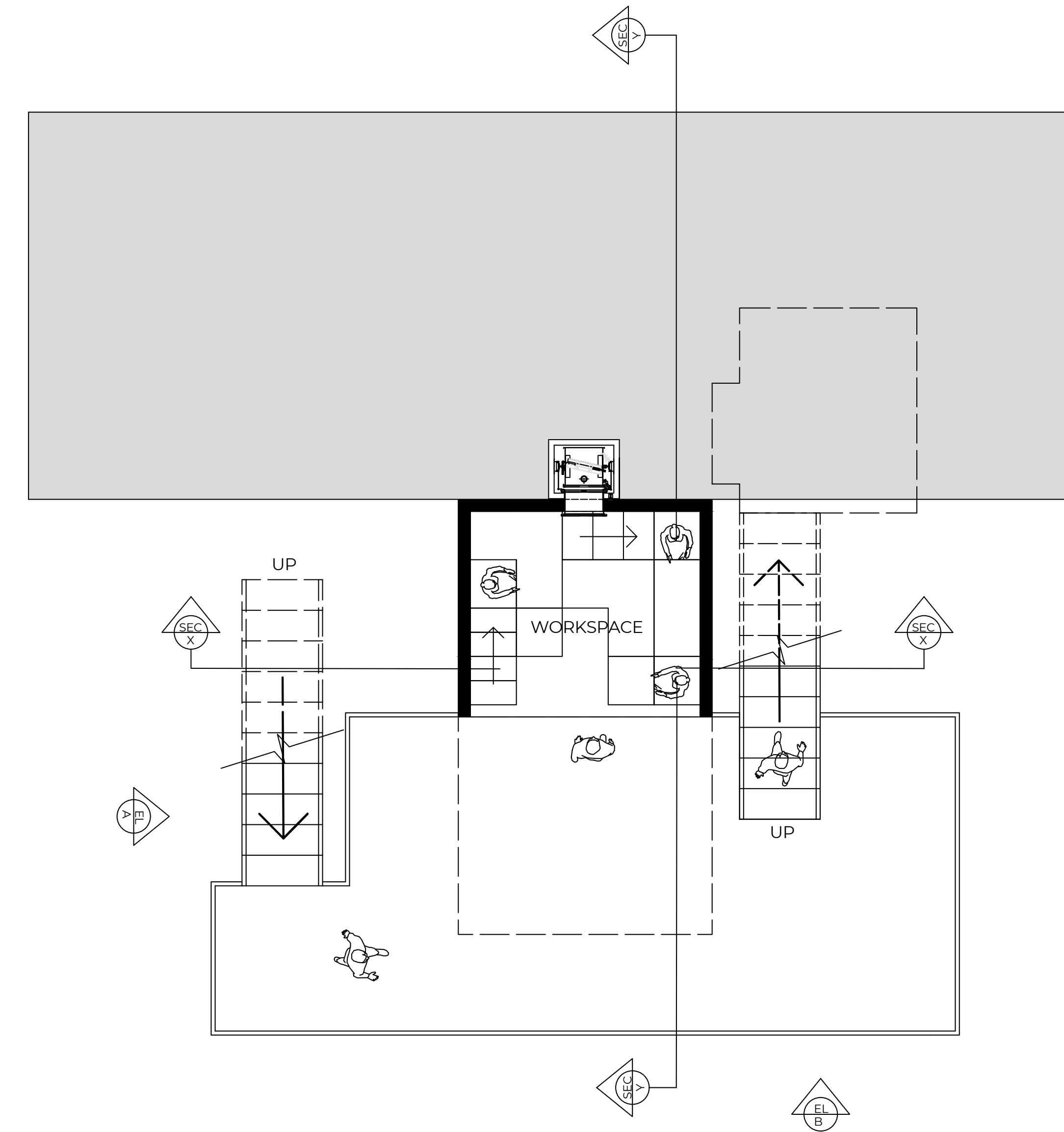


COMPACT  
FURNITURE



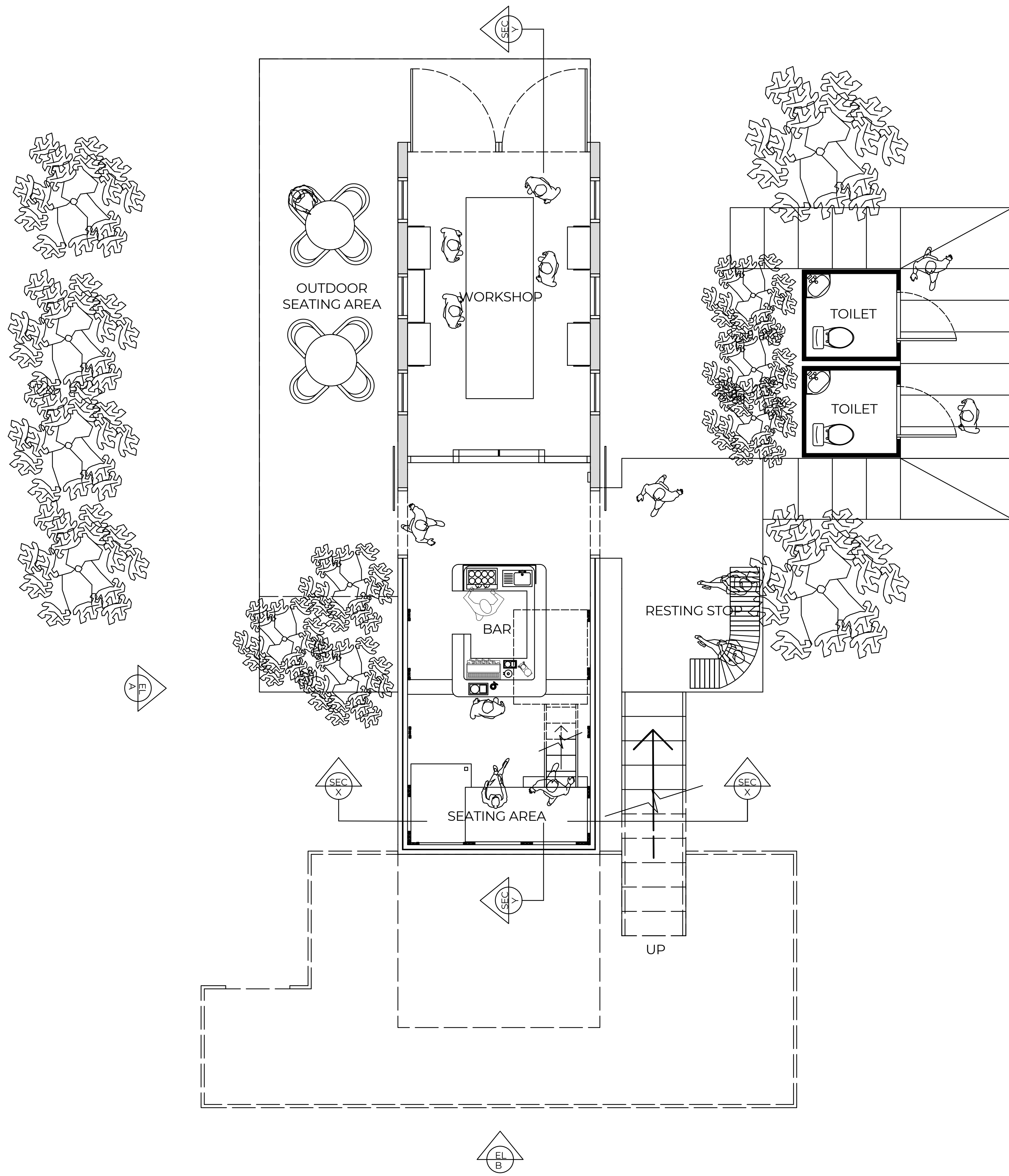


PLNGROUND FLOOR PLAN  
 ASCALE 1:50

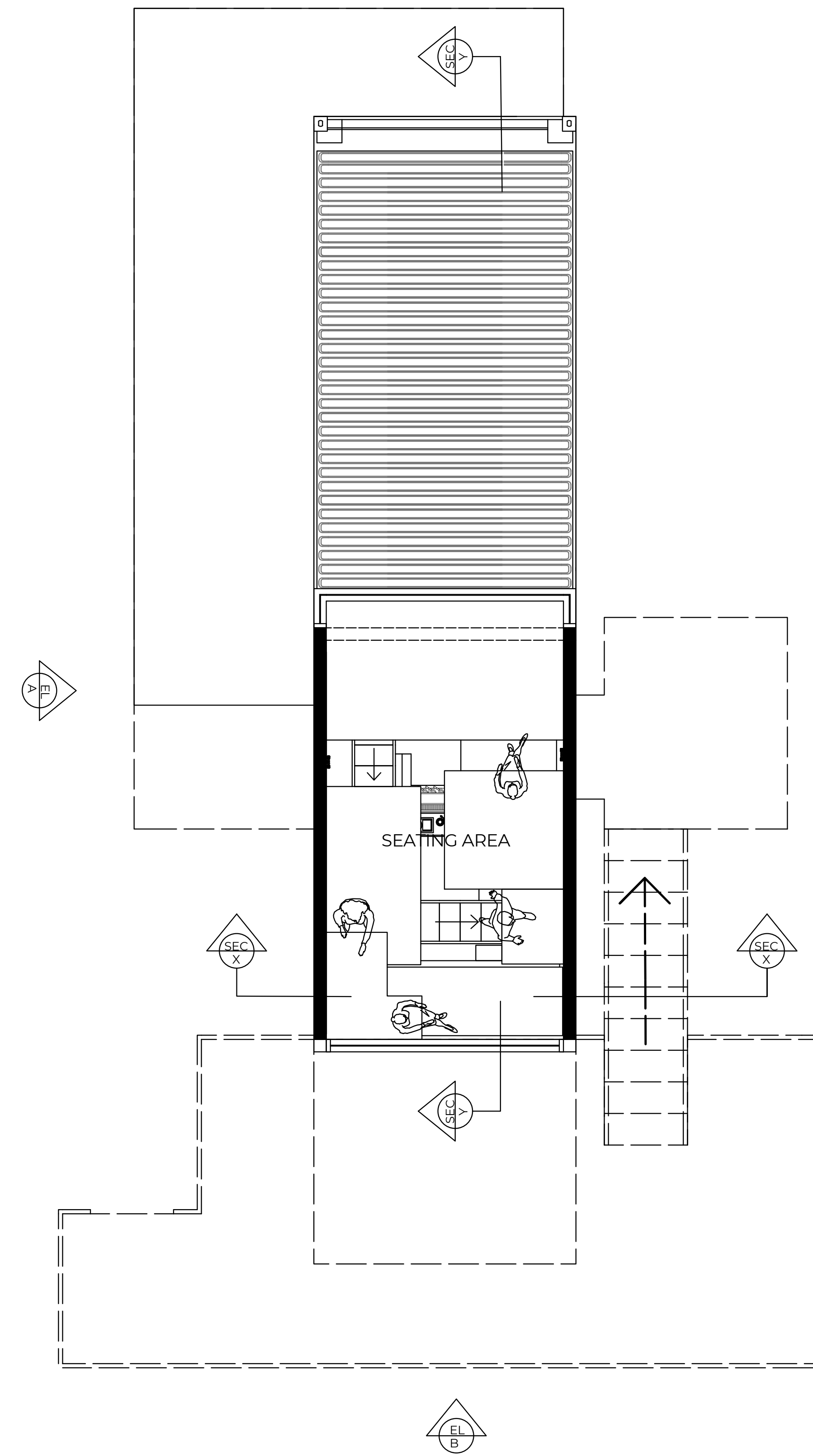


PLNFIRST FLOOR PLAN  
 BSCALE 1:50



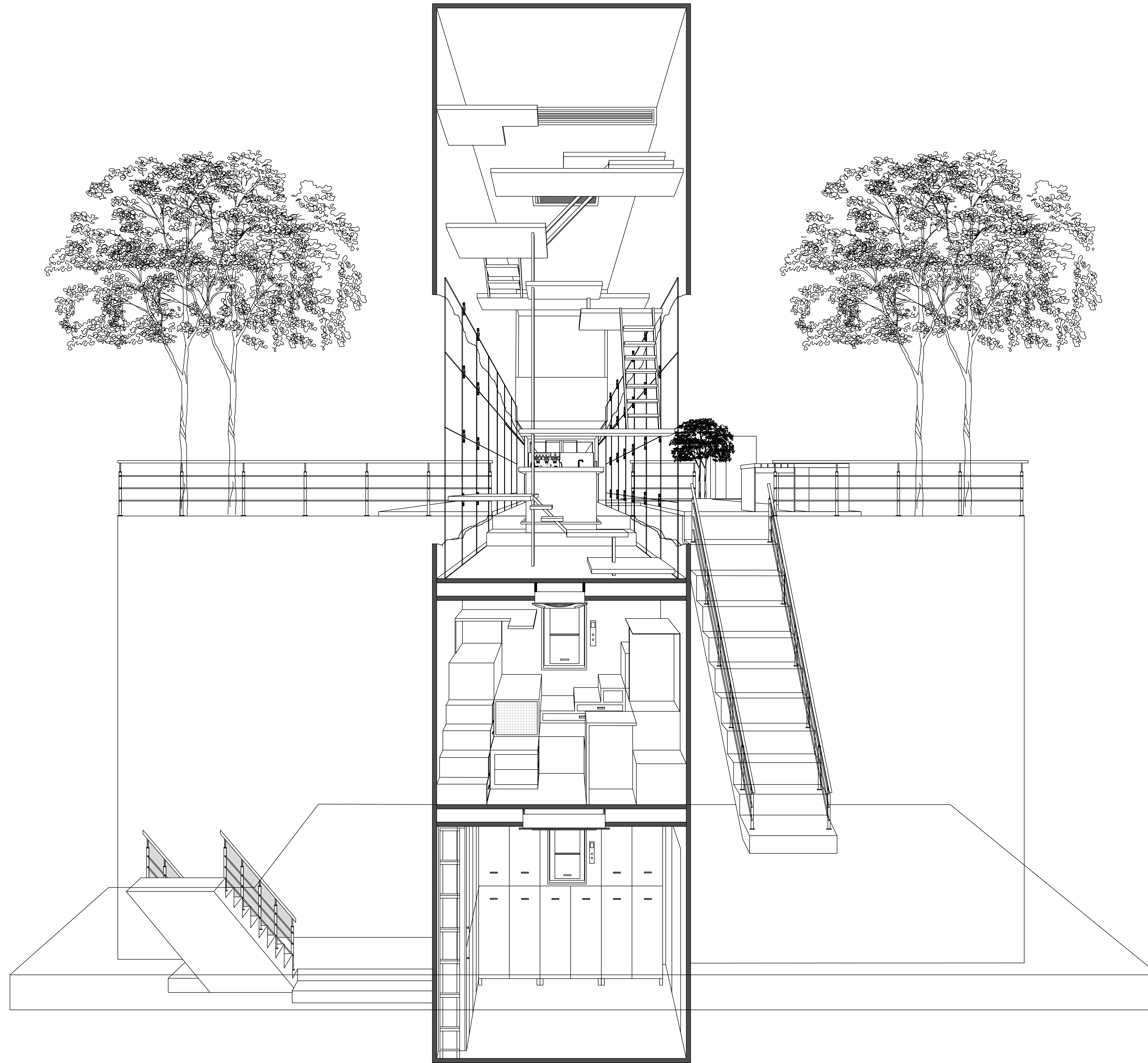


PLN SECOND FLOOR PLAN  
 CS SCALE 1:50



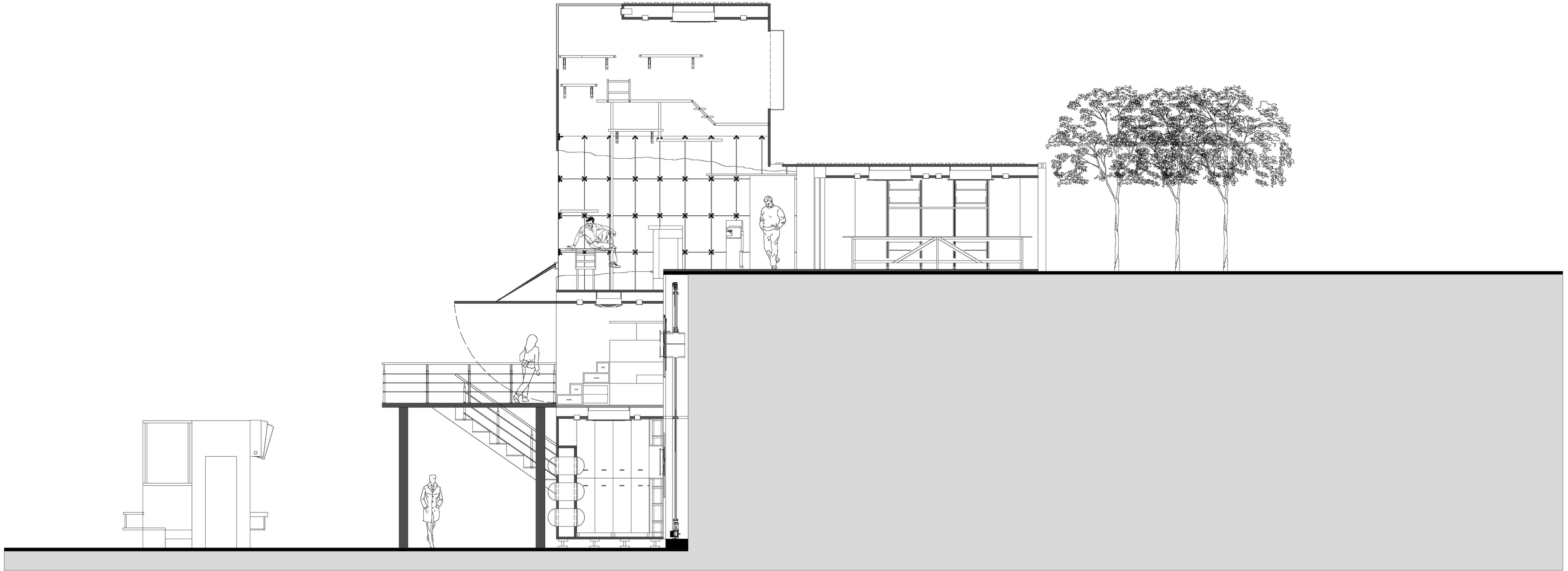
PLN THIRD FLOOR PLAN  
 DS SCALE 1:50





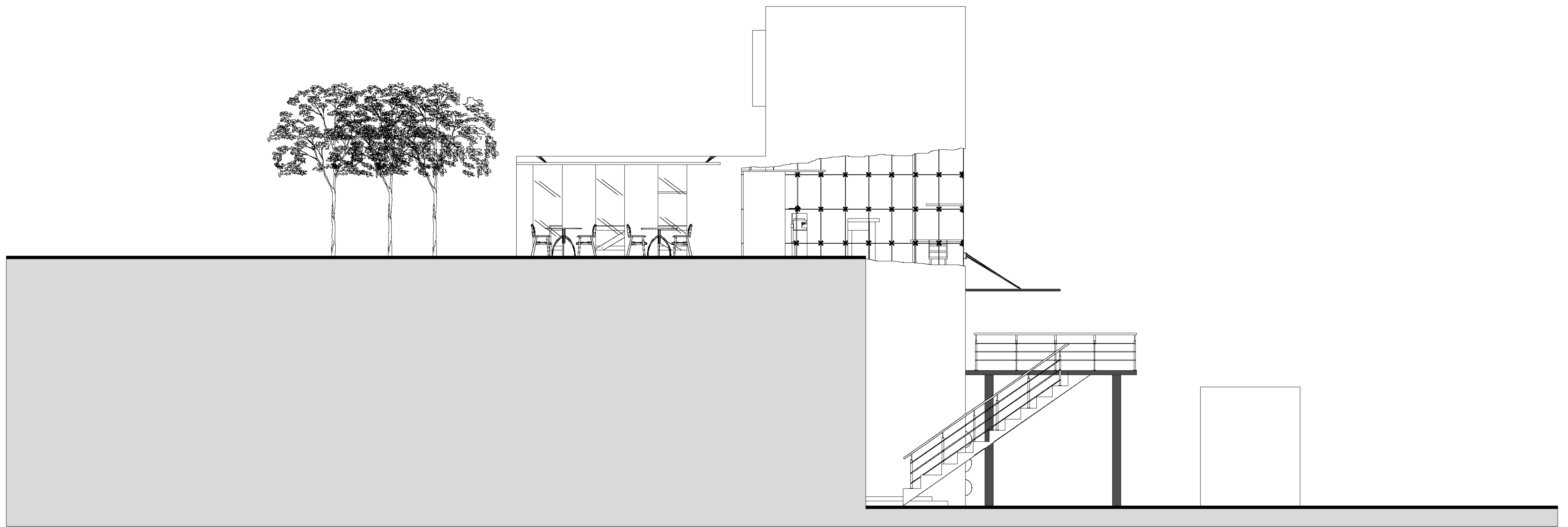
SECTION X-X  
SCALE 1:20





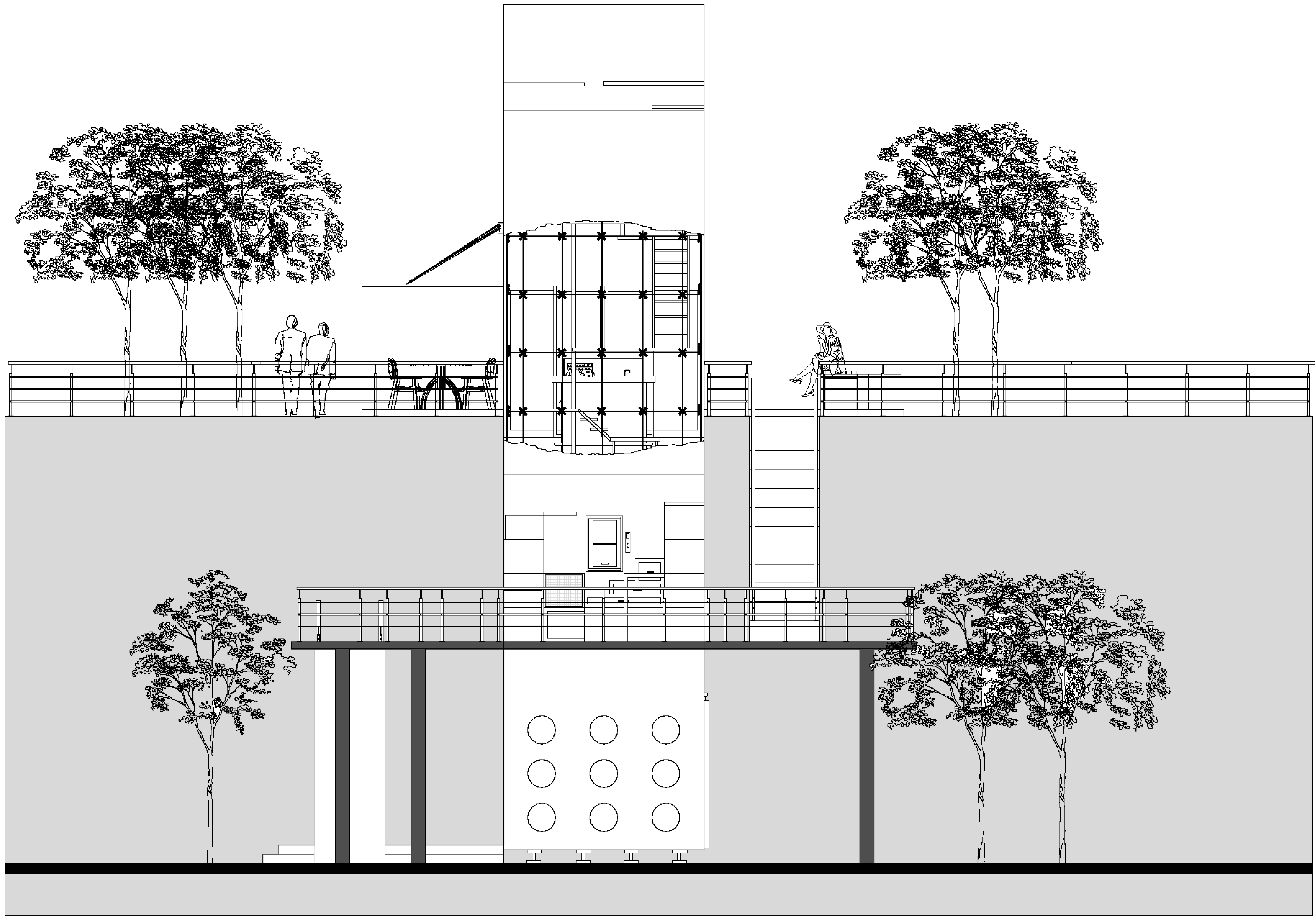
SECSECTION Y-Y  
Y-YSCALE 1: 20





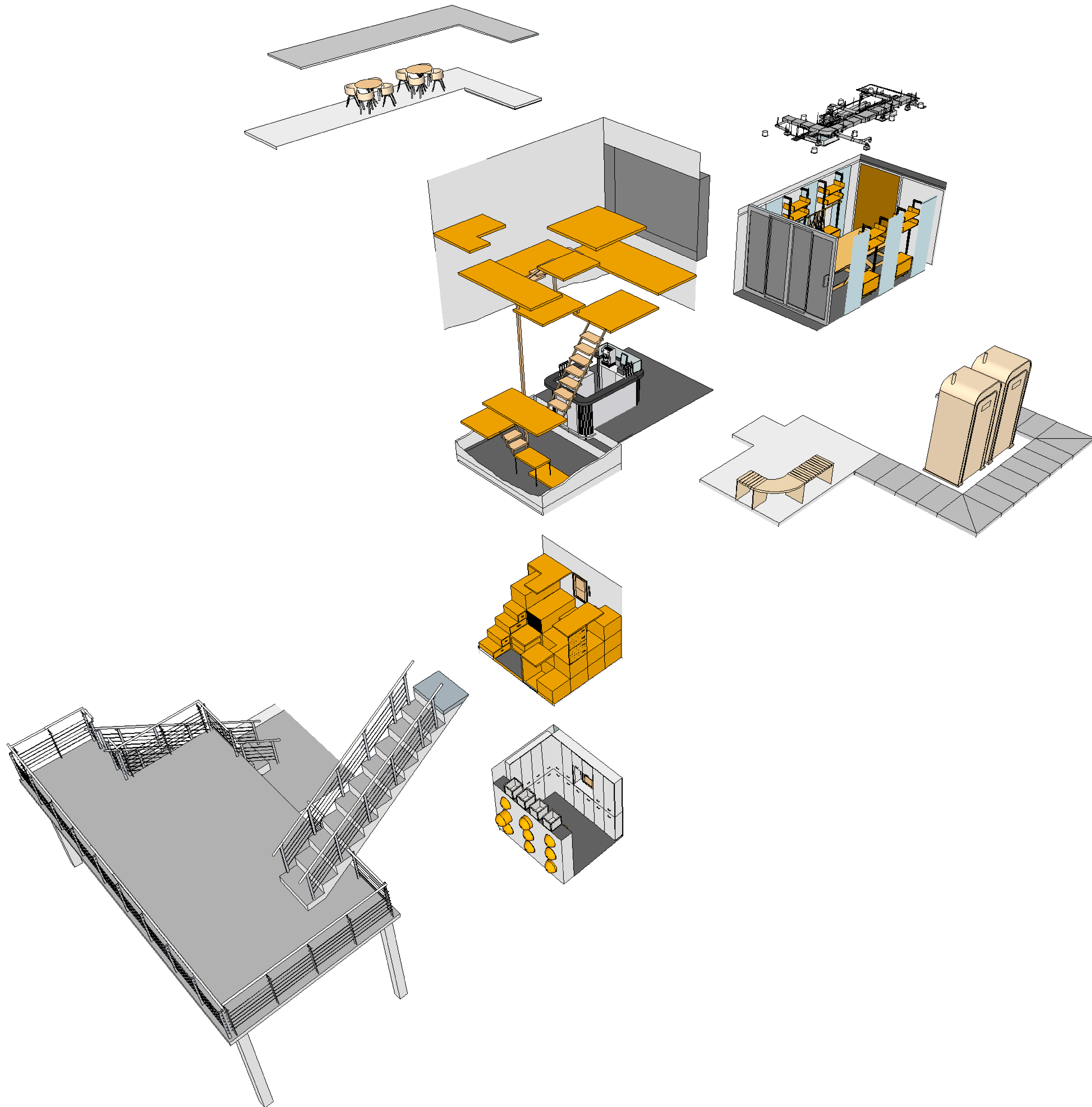
ELEVATION A  
SCALE 1:50





ELEVATION B  
SCALE 1: 50



































THANK YOU.

