



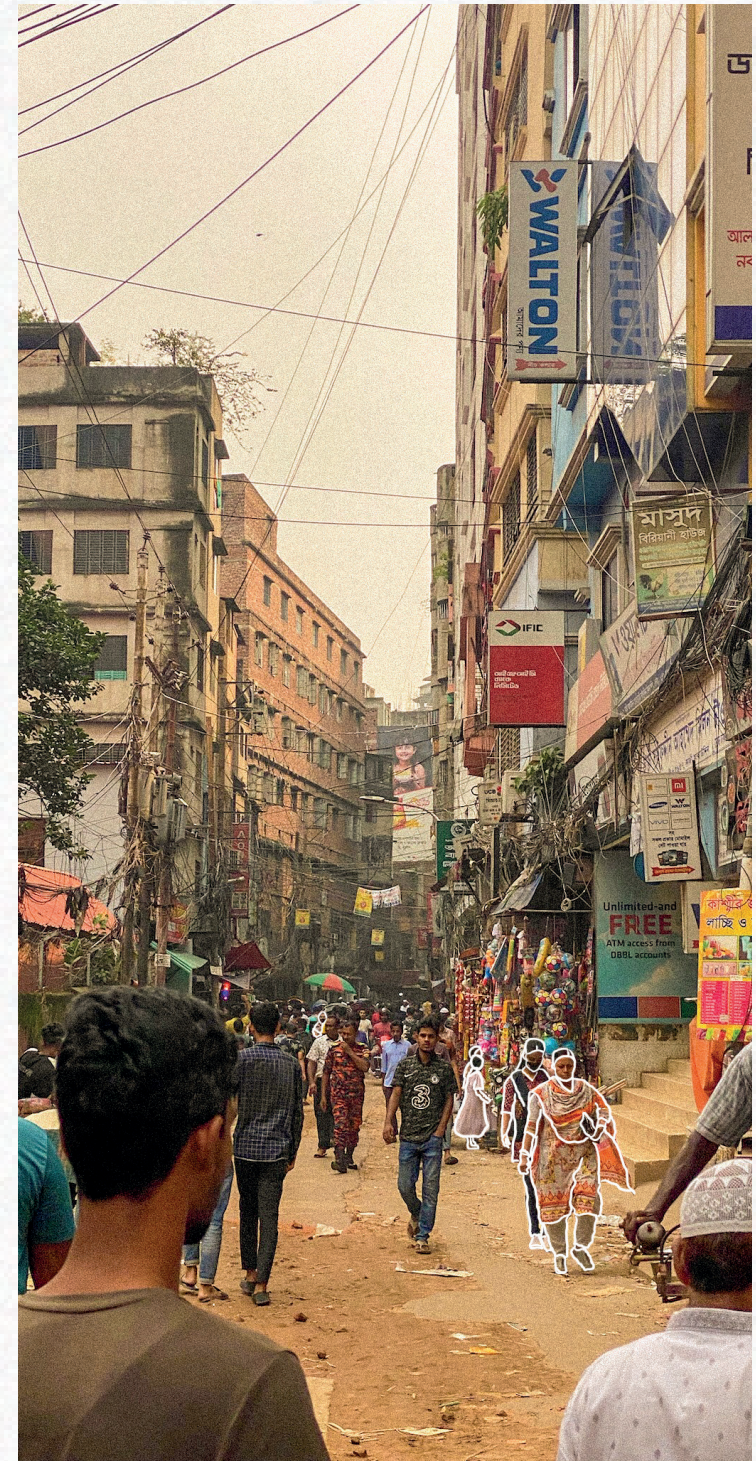
women as developers

Women's Involvement in Housing Initiatives on Financial Sustainability,
Resident Satisfaction, and Community Cohesion in Sylhet, Bangladesh.

content

- I. Problem Statement
- II. Site
 - Site
 - Development
- III. Design
 - Urban Strategy
 - Cluster
 - Typology
- IV. Future perspective

I. problem statement



Public life in Dhaka

Visual representation off the underrepresentation of women in urban public areas.



II. site



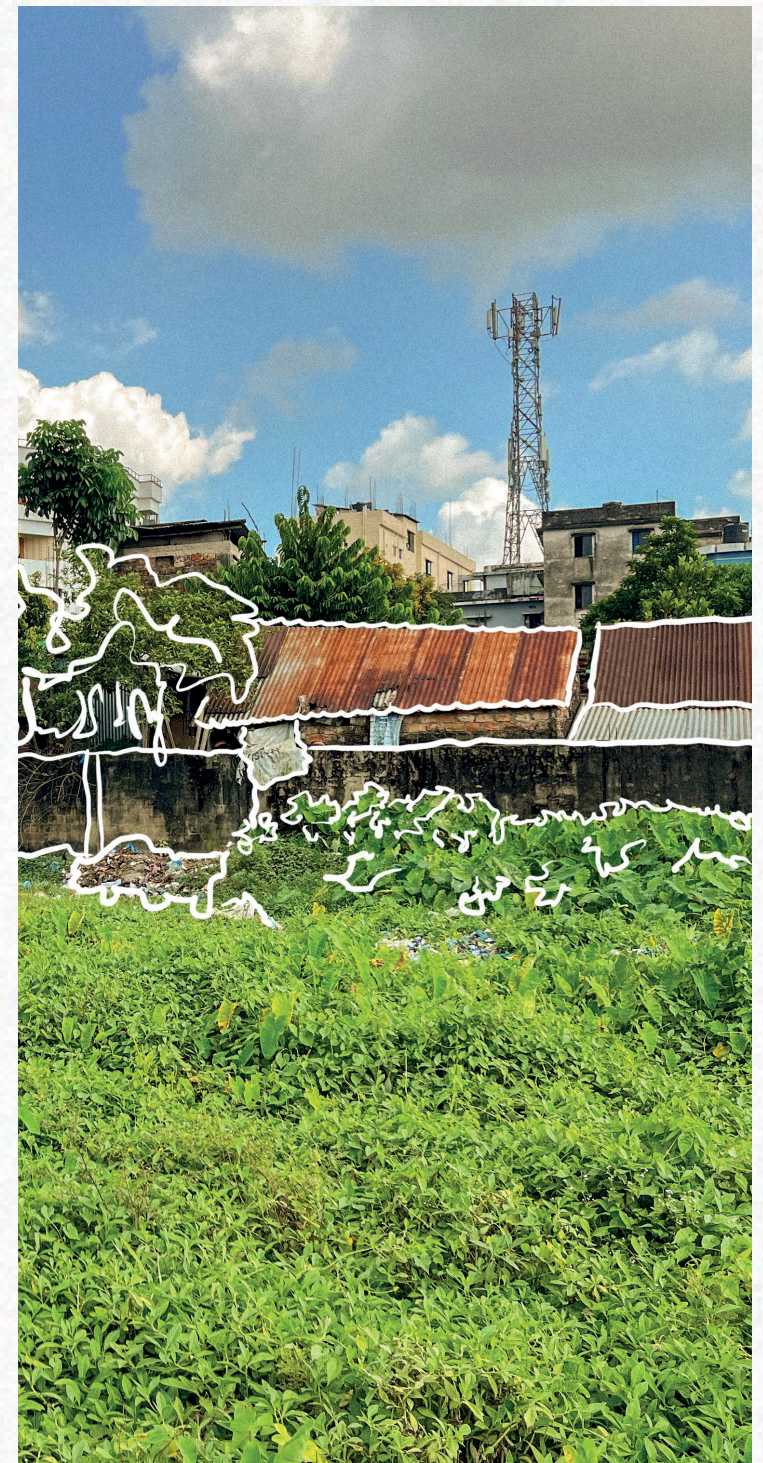




Site view from pond
Laladighirpar, Sylhet



Views around the pond
Laladighirpar, Sylhet



Views on site
Laladighirpar, Sylhet



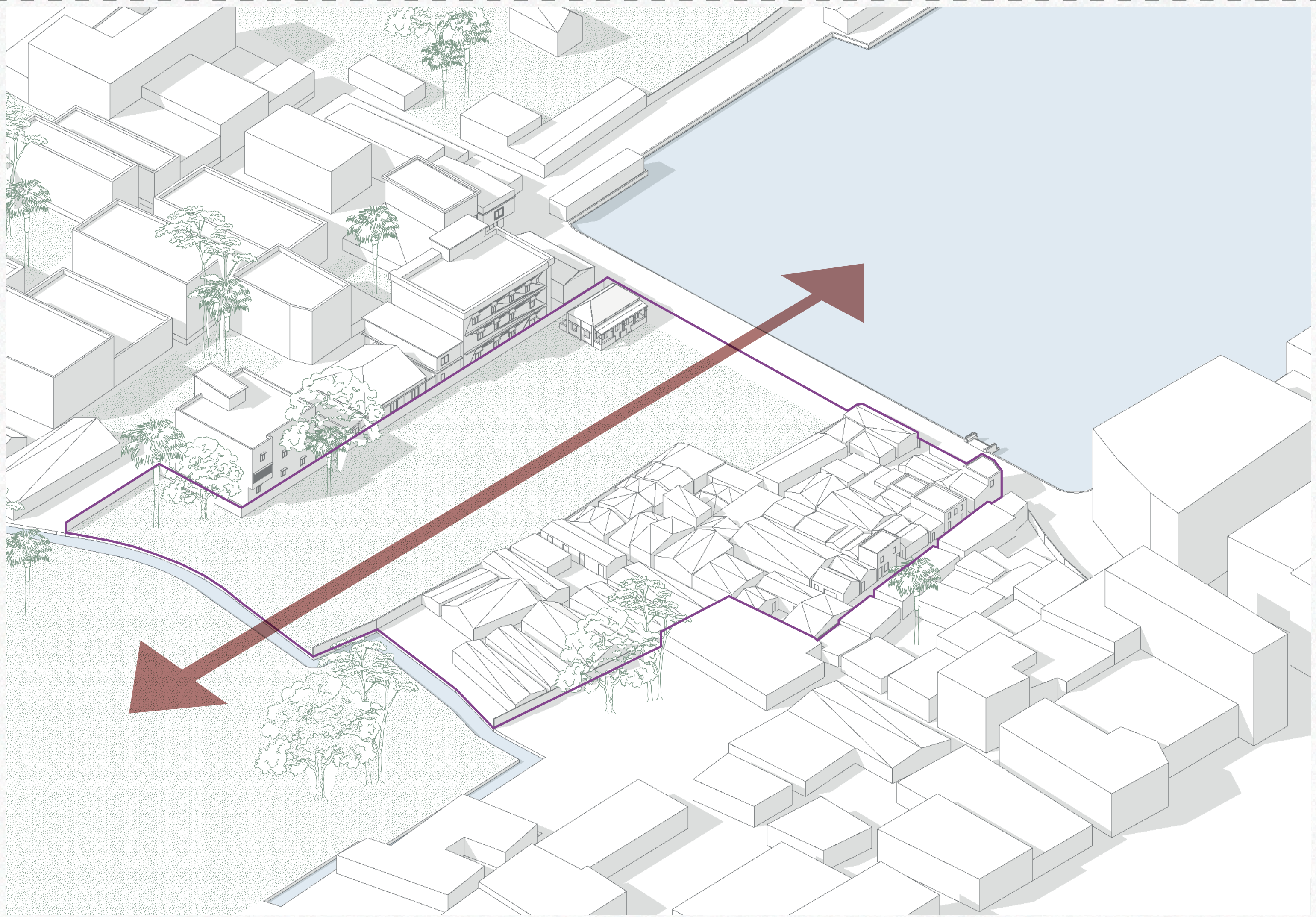
Site view from cricketfield
Laladighirpar, Sylhet



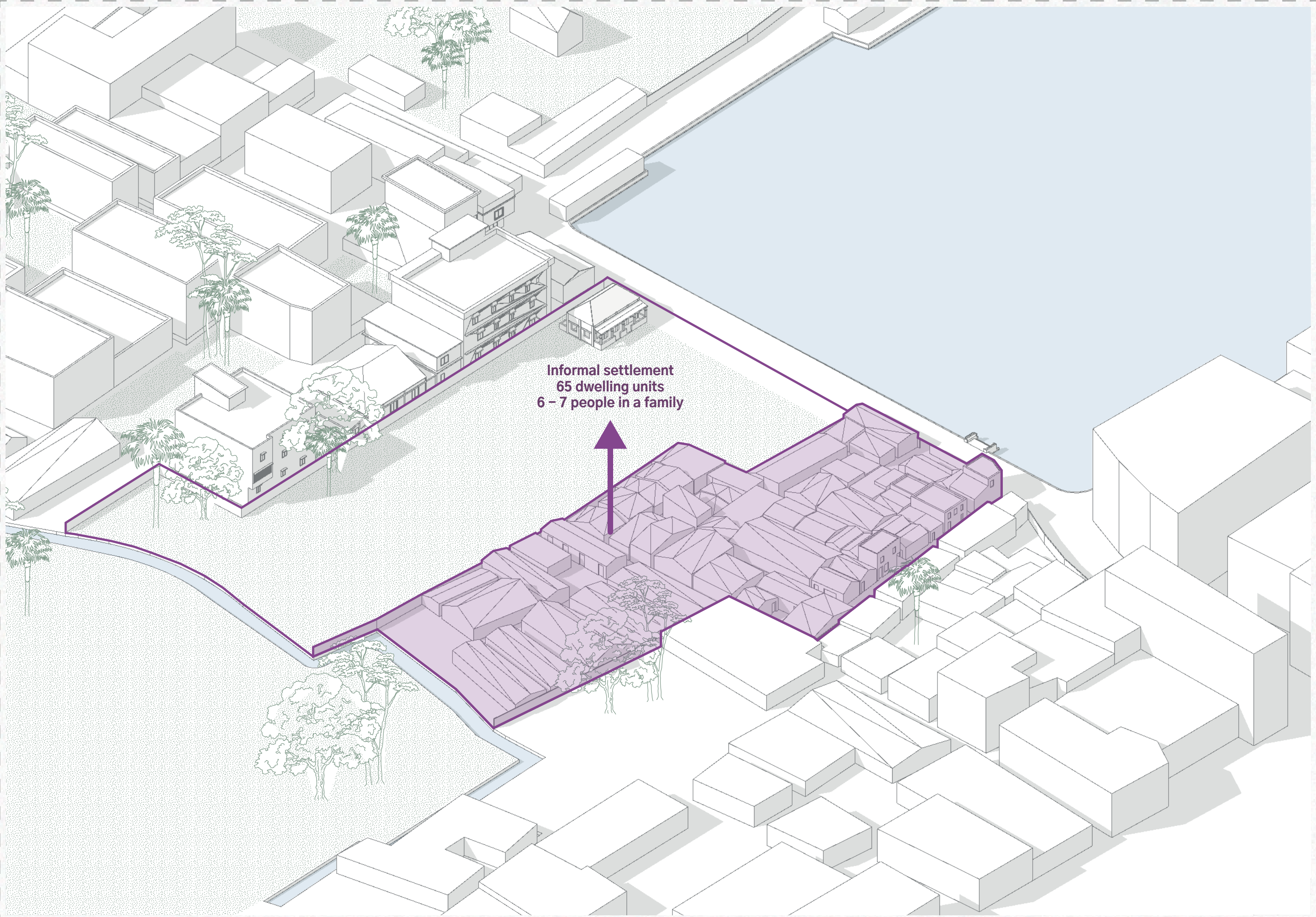
Inside the informal settlement
Laladighirpar, Sylhet











Informal settlement
65 dwelling units
6 – 7 people in a family

6040 m²

3340 m² empty plot
2700 m² informal settlement

plot size

0,34

GSI
Ground Space Index

0,39

FSI
Floor Space Index

107 d/ha

65 dwelling units

Density
Dwelling units per hectare

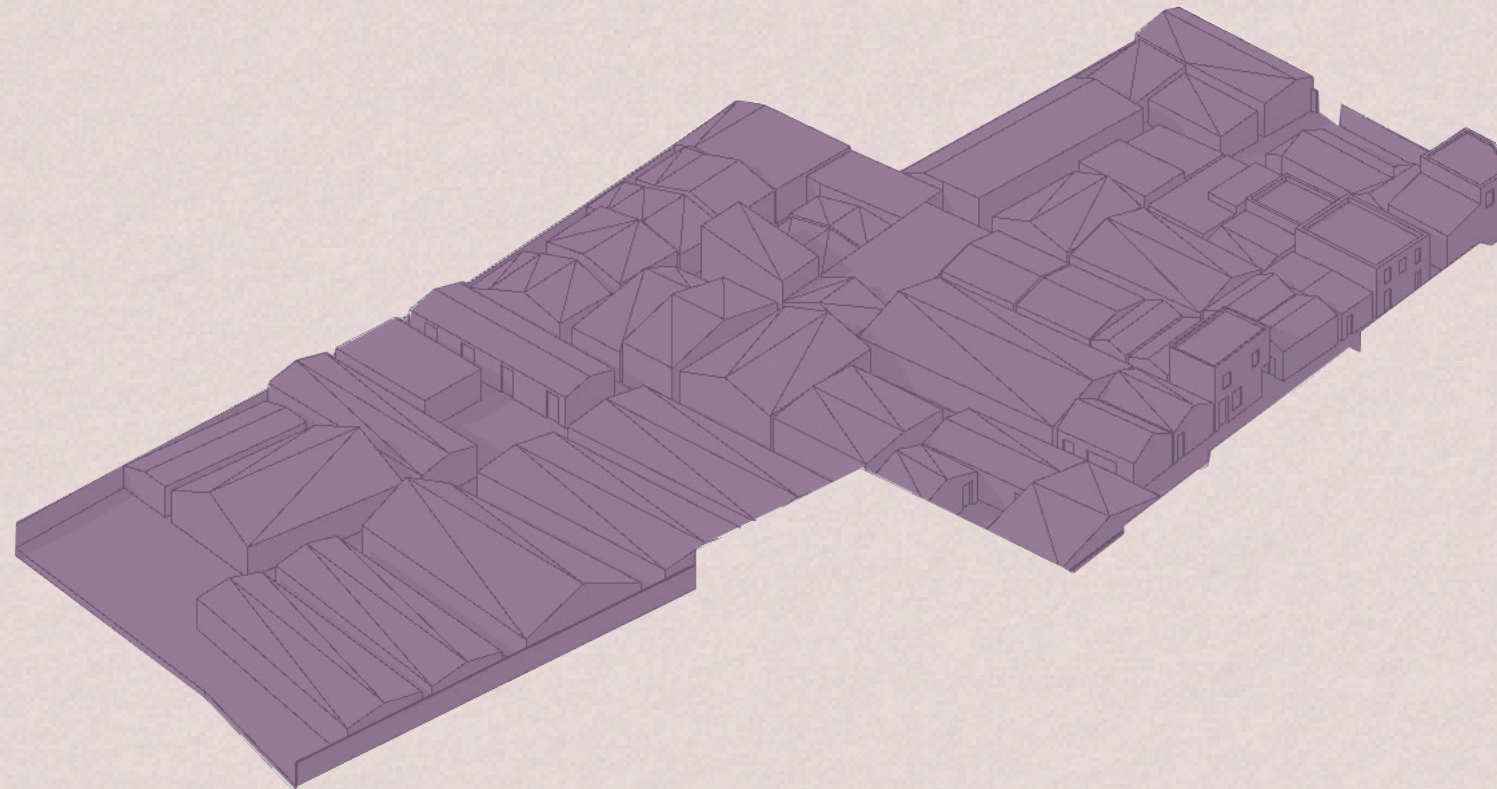
Architect

65 houses

= 65 families = 65 women

Developer

temporary
relocation to
other place in the
city



+ Middle Income

+ High Income

+ Commercial spaces

Architect

65 houses

= 65 women

SPARC India

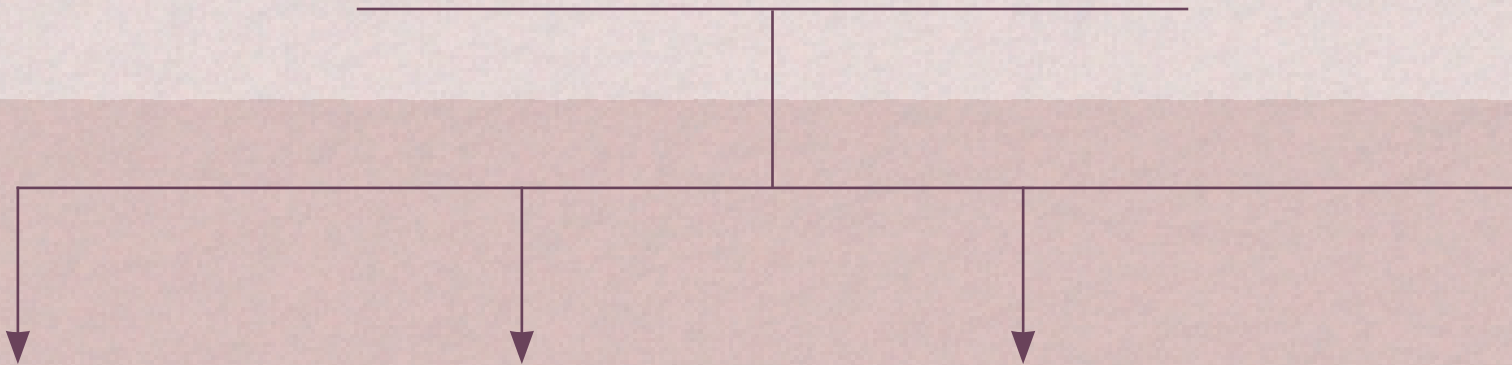
Co.Creation
POCAA

Group 1
= 16 women

Group 2
= 16 women

Group 3
= 16 women

Group 4
= 16 women



Architect

65 houses

= 65 women

SPARC India

Co.Creation
POCAA

Group 1
= 16 women

Group 2
= 16 women

Group 3
= 16 women

Group 4
= 16 women

Design proces

76 new dwellings

Architect

65 houses

= 65 women

SPARC India

Co.Creation
POCAA

Group 1

= 16 women

Group 2

= 16 women

Group 3

= 16 women

Group 4

= 16 women

Design proces

76 new dwellings

Cluster 1

= 16 women

Cluster 2

= 16 women

Cluster 3

= 16 women

Cluster 4

= 16 women

Architect

65 houses

= 65 women

SPARC India

Co.Creation
POCAA

Group 1

= 16 women

Group 2

= 16 women

Group 3

= 16 women

Group 4

= 16 women

Design proces

76 new dwellings

Cluster 1

= 16 women

Cluster 2

= 16 women

Cluster 3

= 16 women

Cluster 4

= 16 women

WIEGO

Economical advantages

76 new dwellings + workspaces

III. Design



Clustering communities



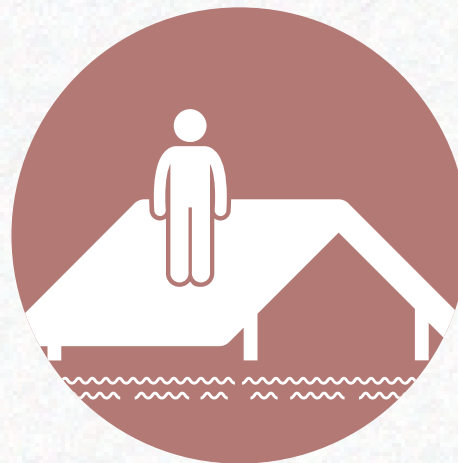
Mixed income



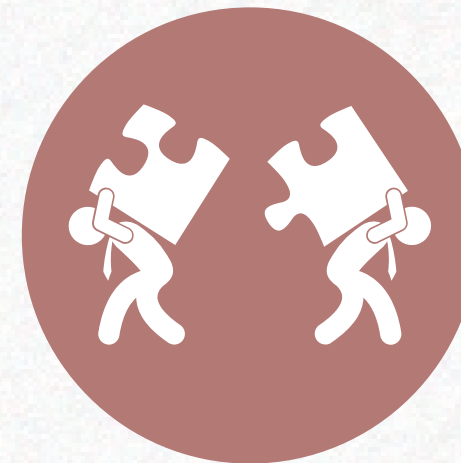
Provide income generating opportunities



Provide more shared public spaces



Flood resilience



Adaptability

Design Principles

Elements for a financial sustainability, resident satisfaction, and community cohesion?



Clustering communities

Creates a supportive environment where women can collaborate, share resources, and strengthen social networks



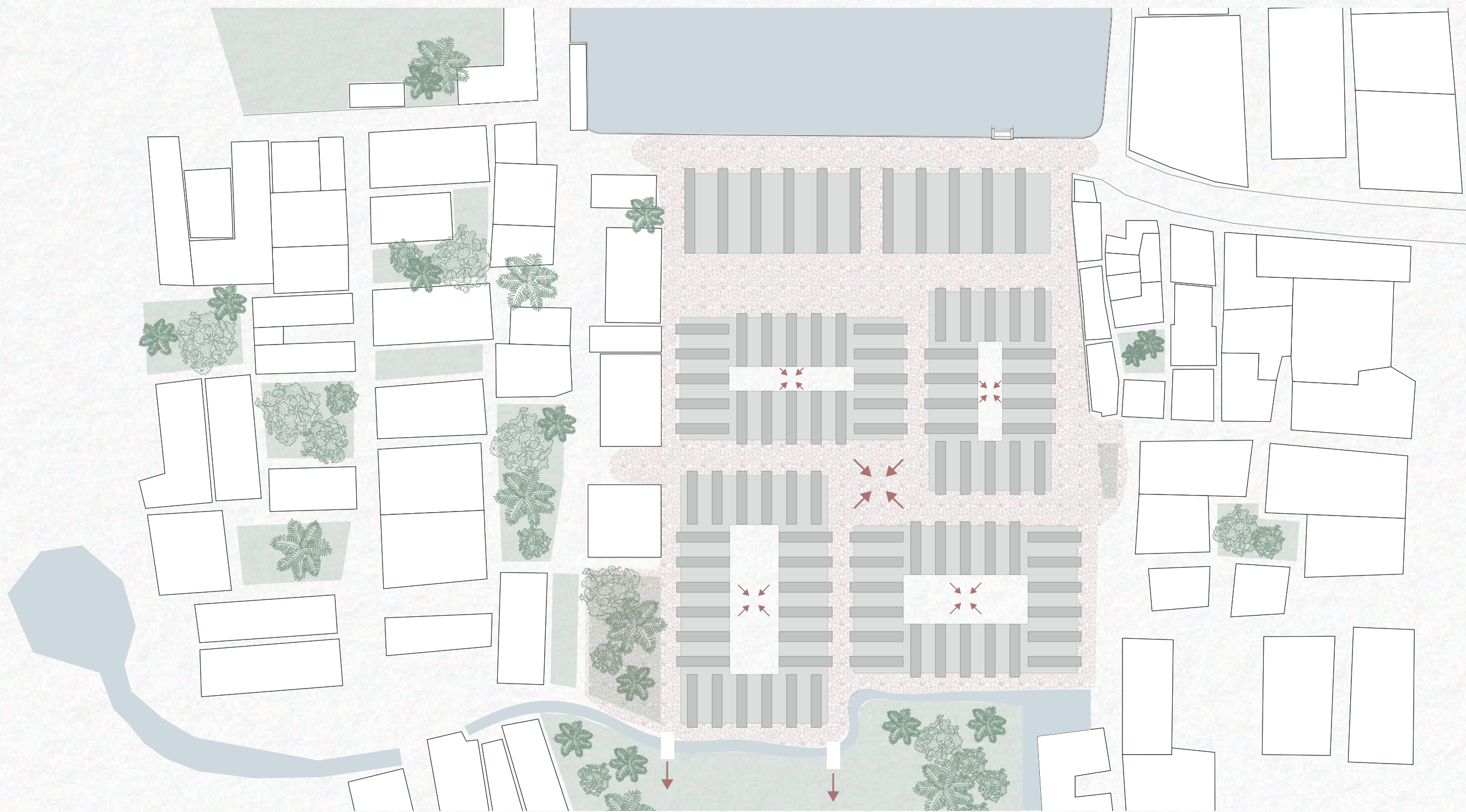
Mixing income levels

Showing how different income groups live near shared amenities and public spaces encourages economic diversity and social inclusion.



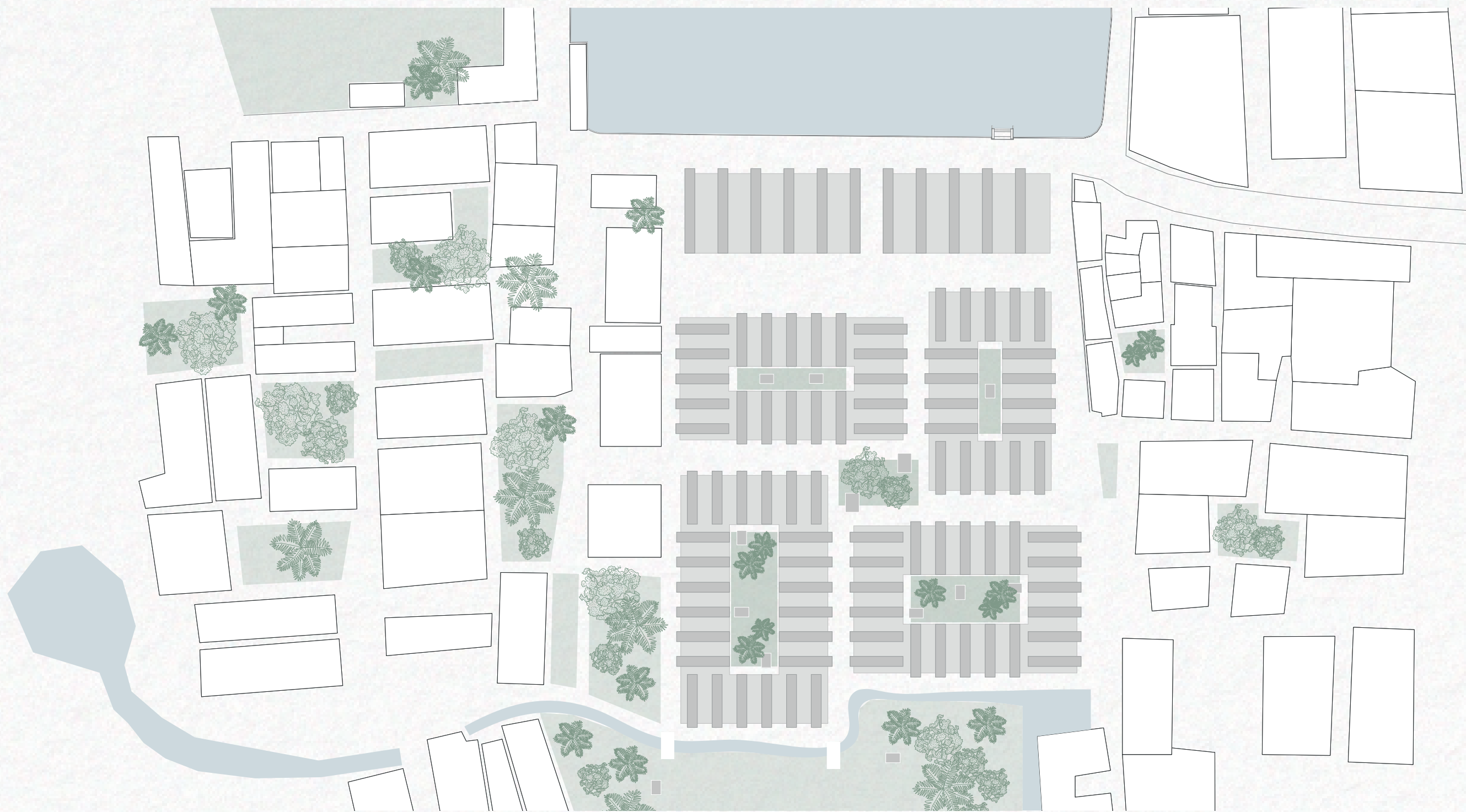
Income-generating opportunities

Create opportunities for women to generate income and support their families



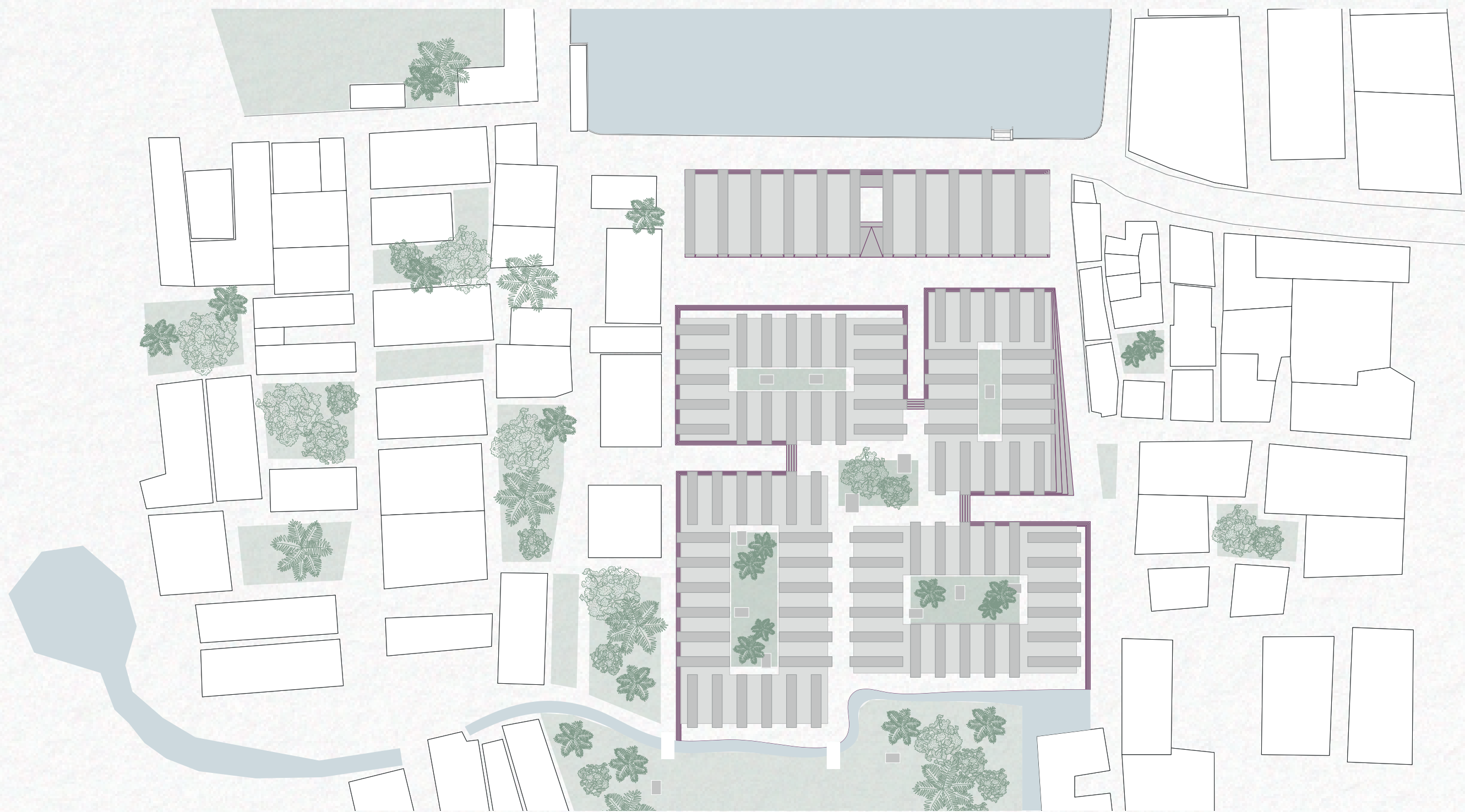
Shared Public Spaces

Create different sizes of shared spaces that are accessible to various groups within the community.



Shared Public Spaces

Create different sizes of shared spaces that are accessible to various groups within the community.



Flood Resilience

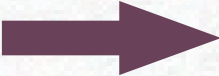
To ensure that houses remain safe and dry, the entire project will be elevated by 3 feet.

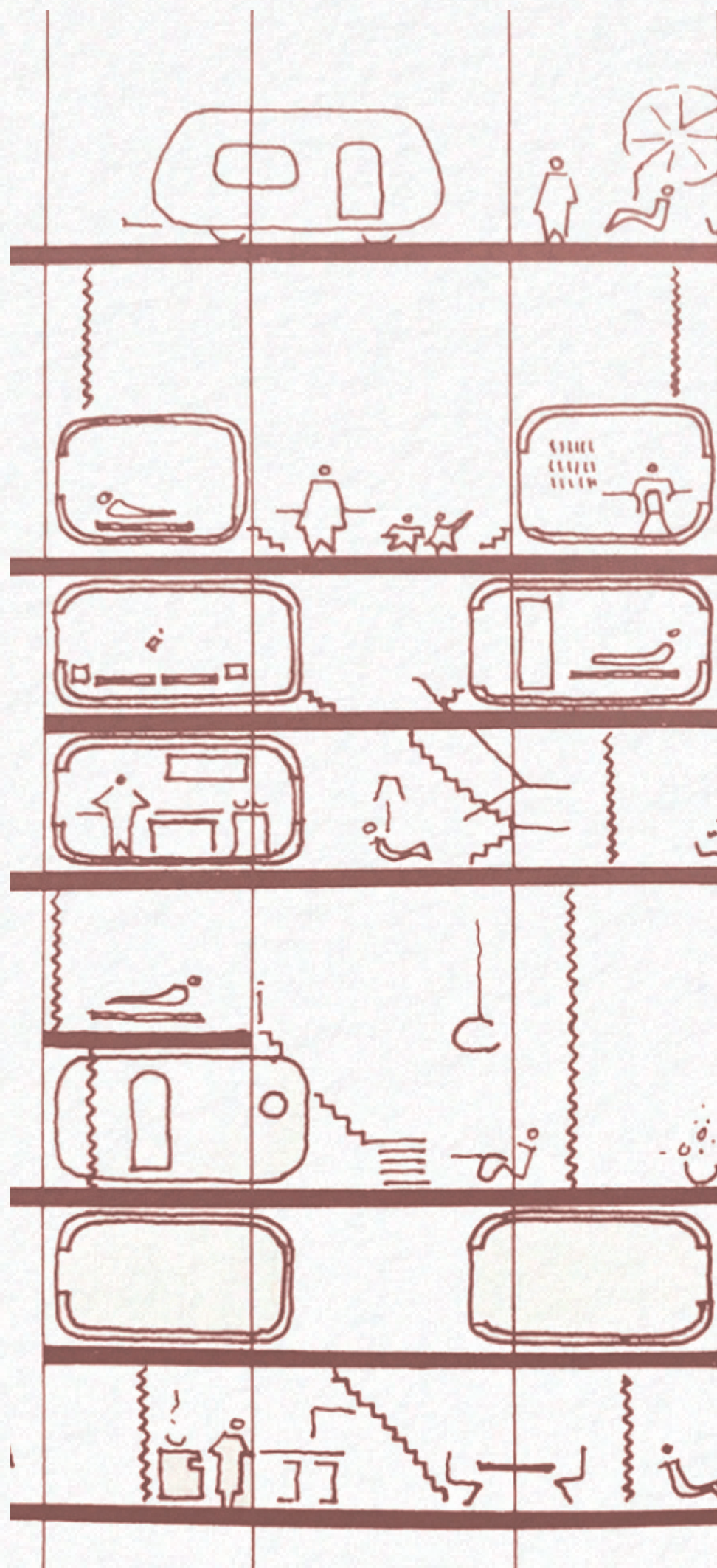
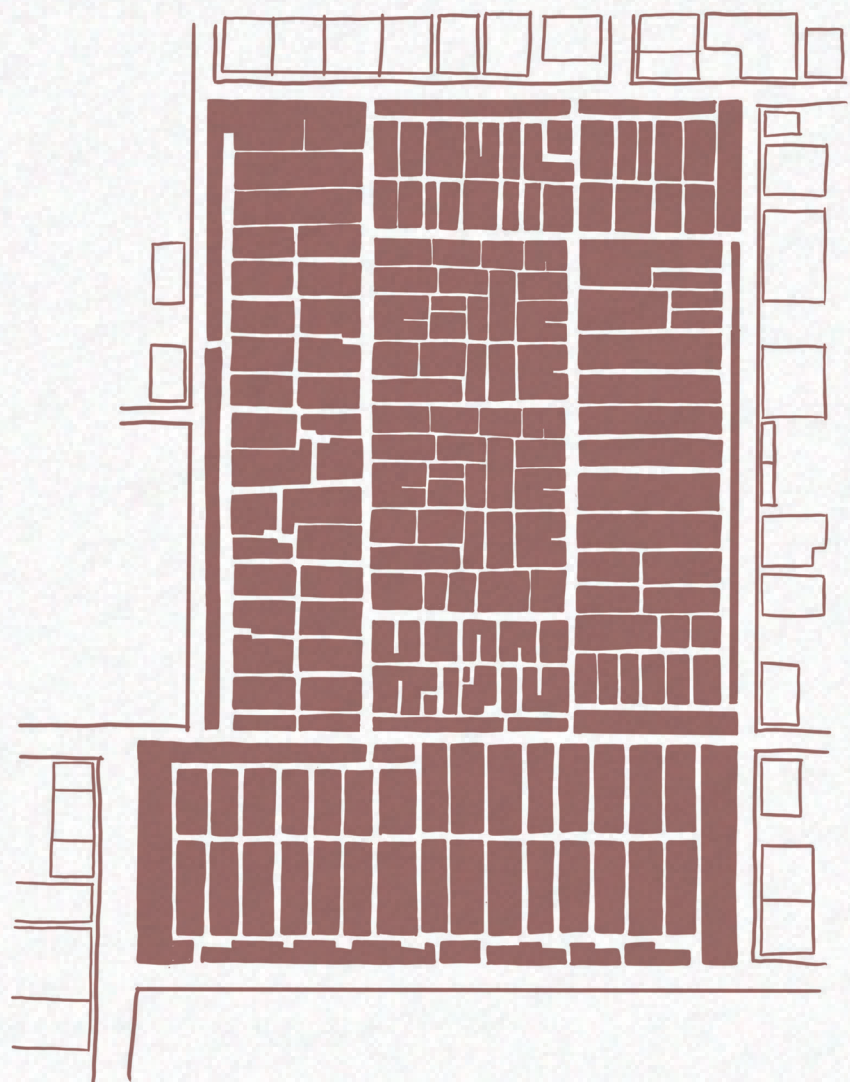
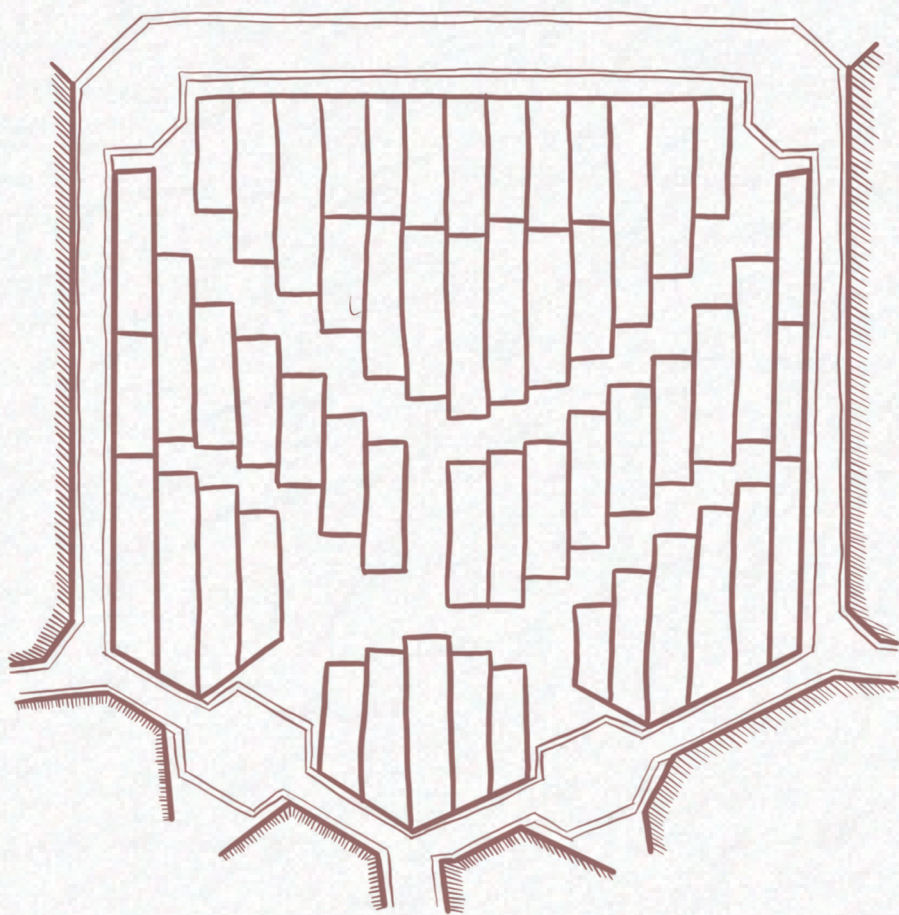
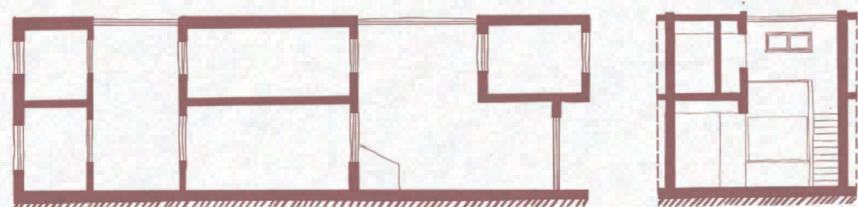
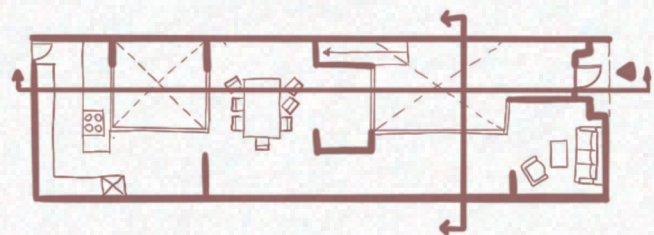
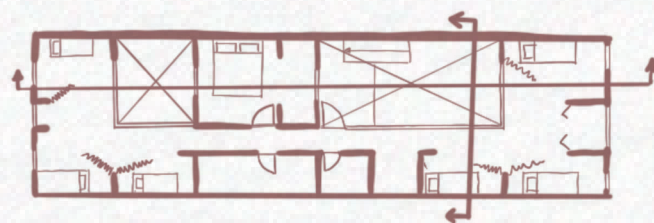
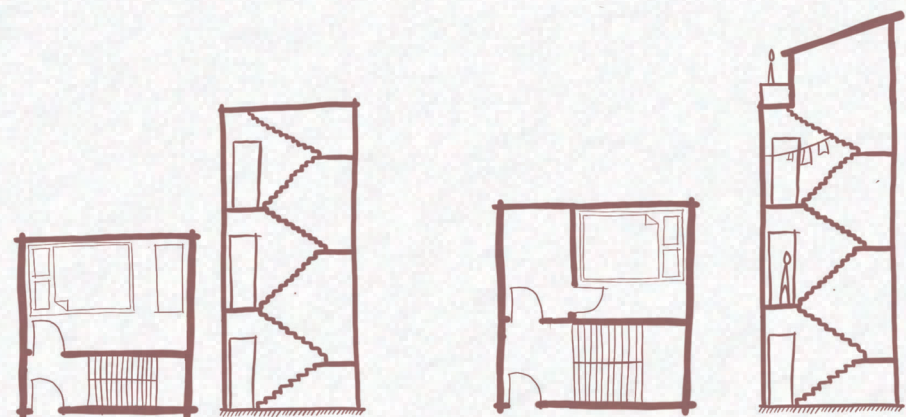
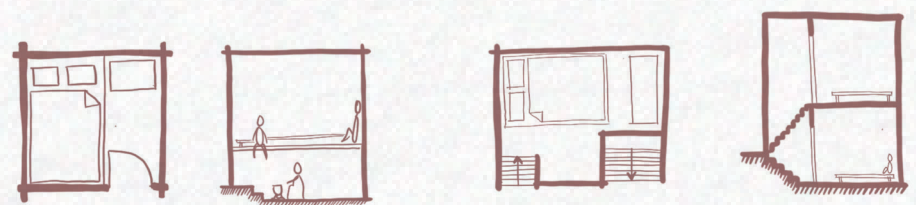


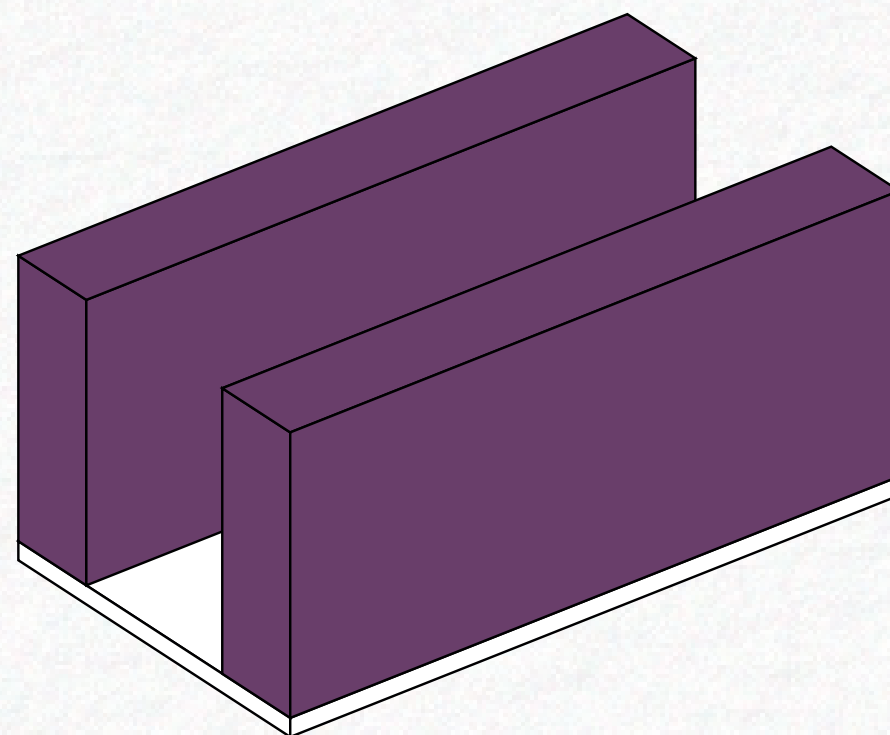
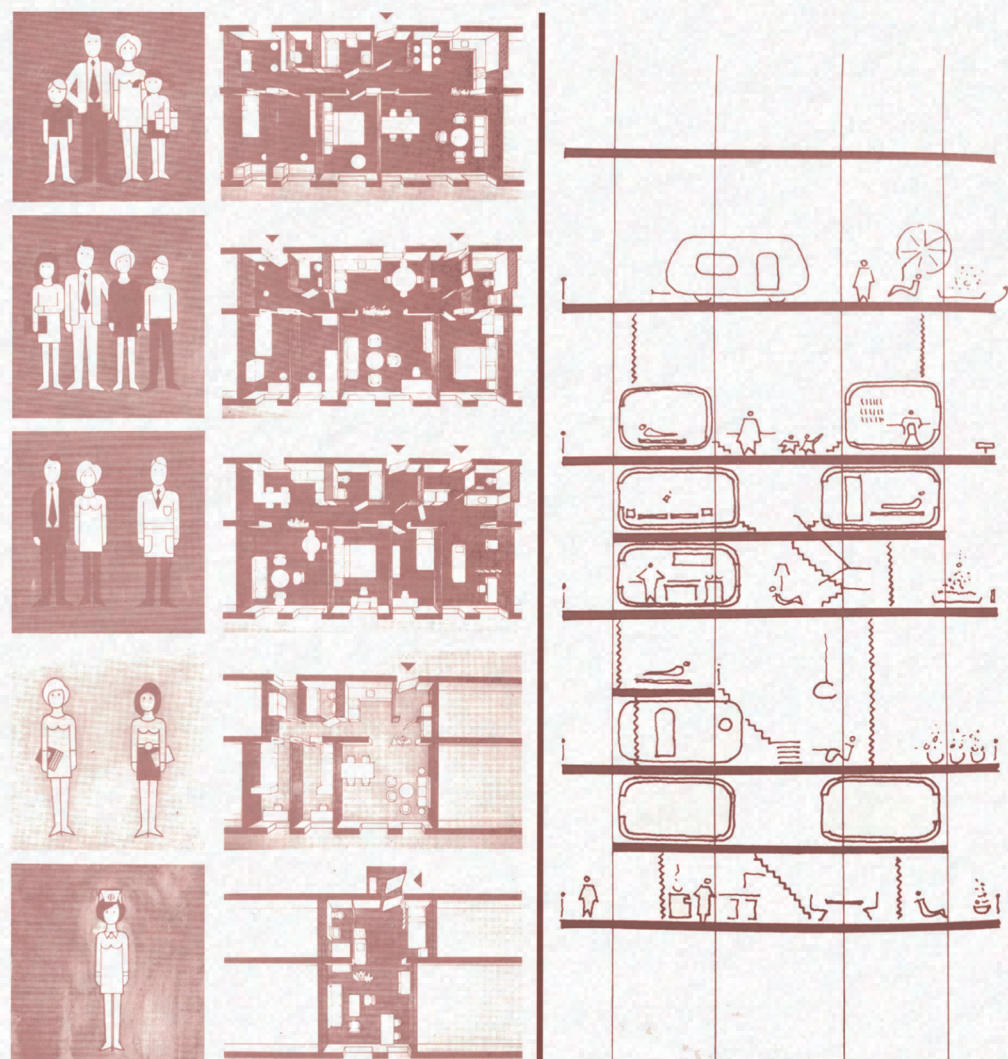
Adaptability

Create a structure that can be reconfigured to meet changing needs.

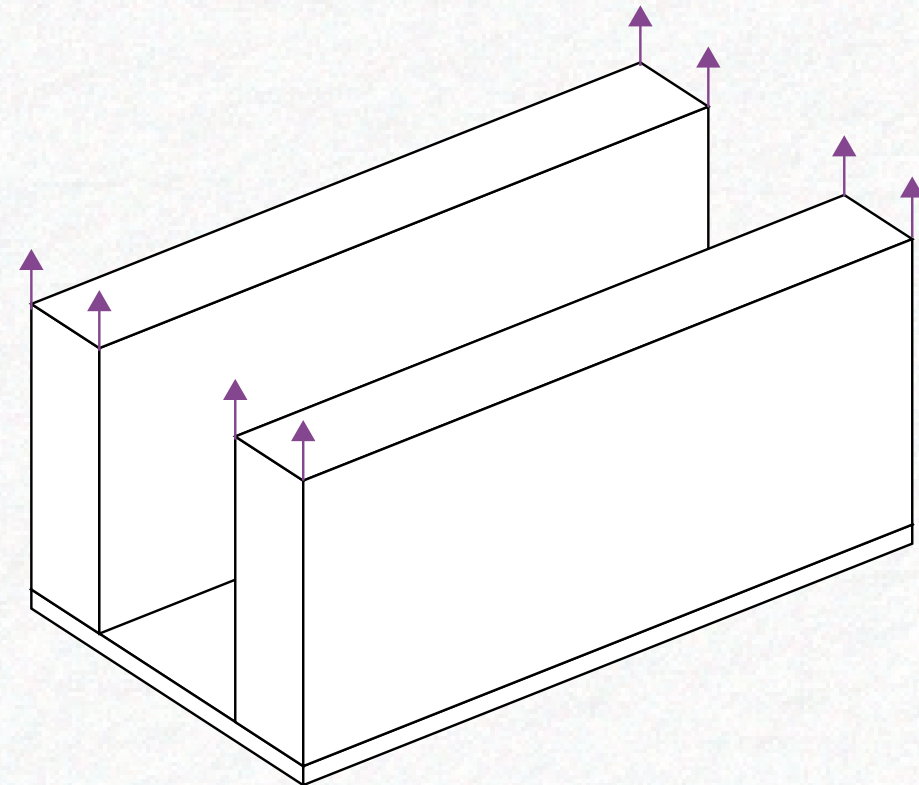




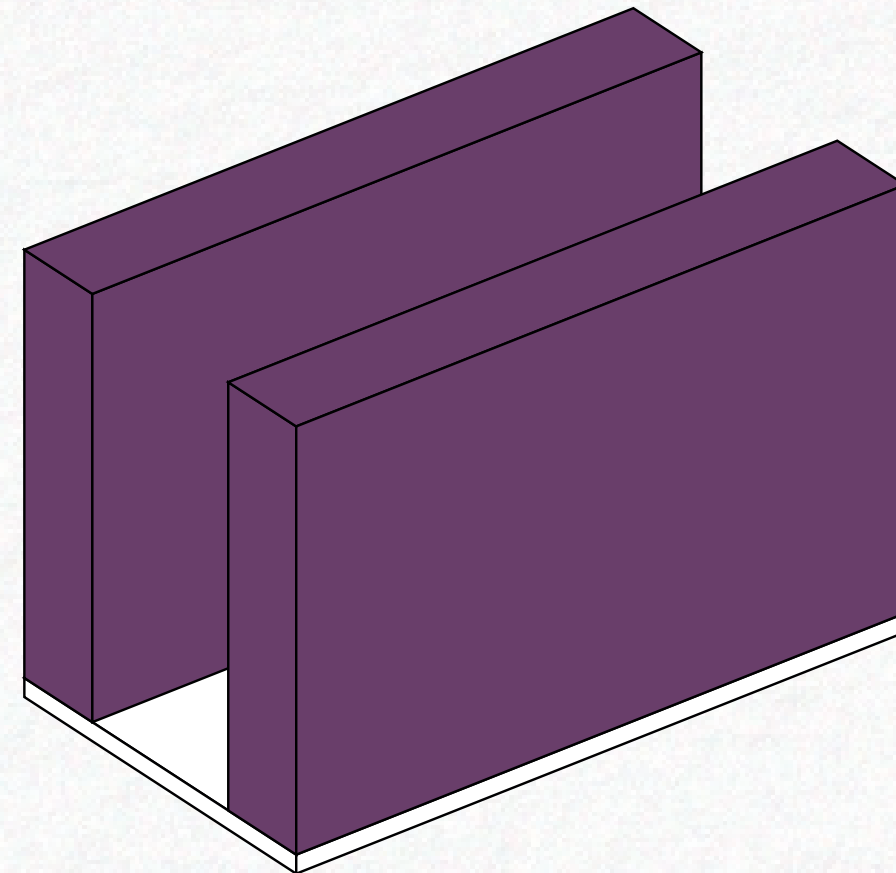
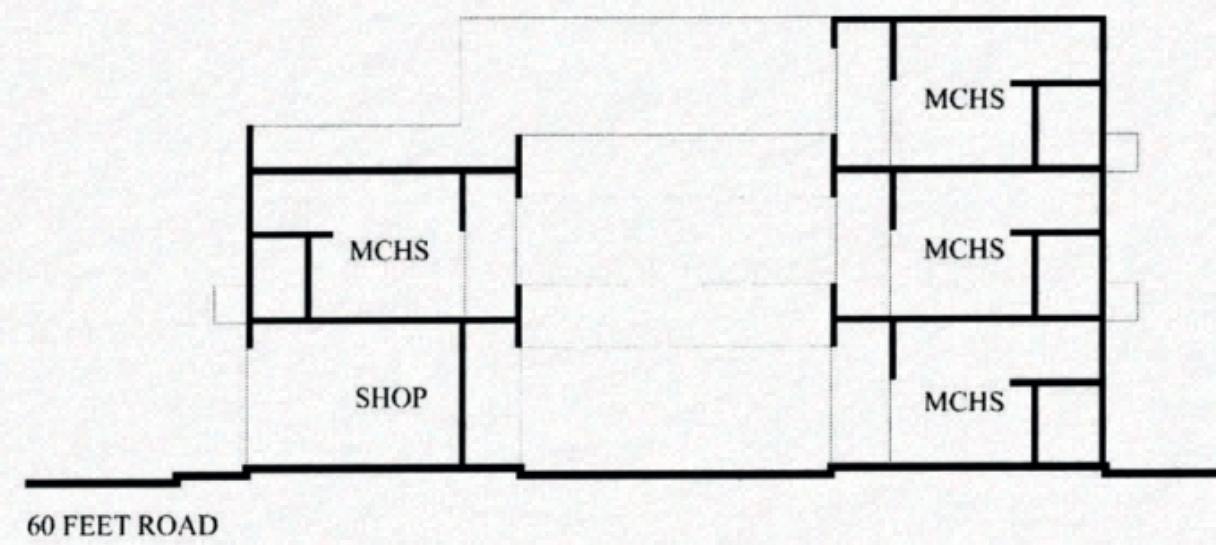




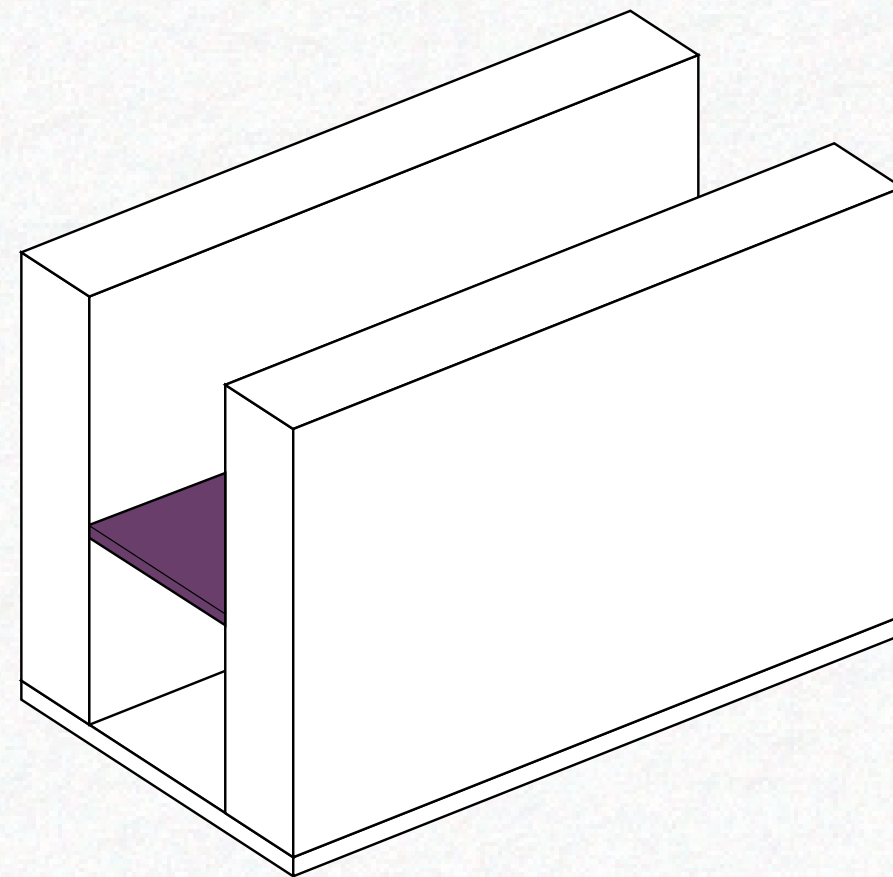
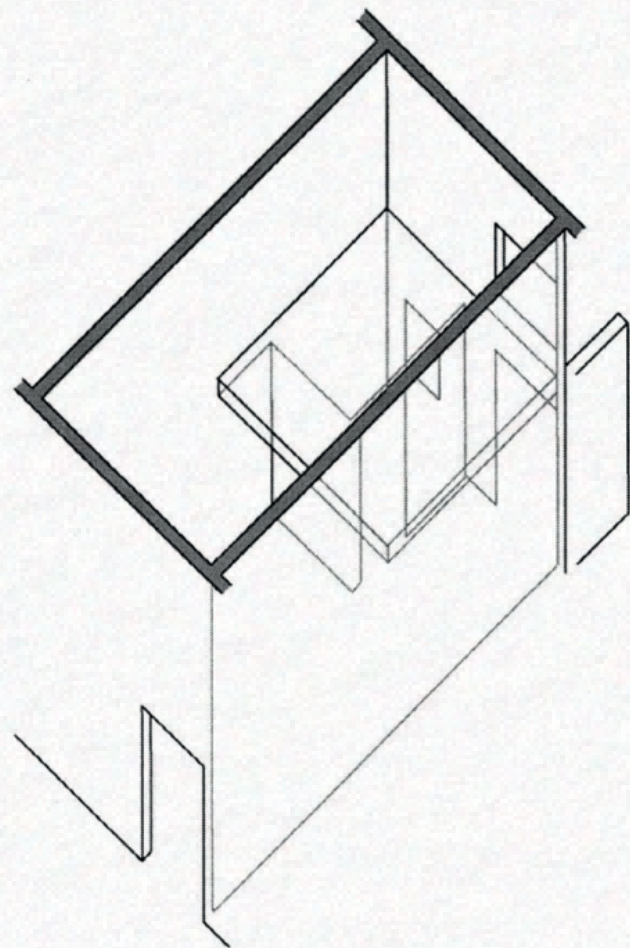
De Dragers
John Habraken



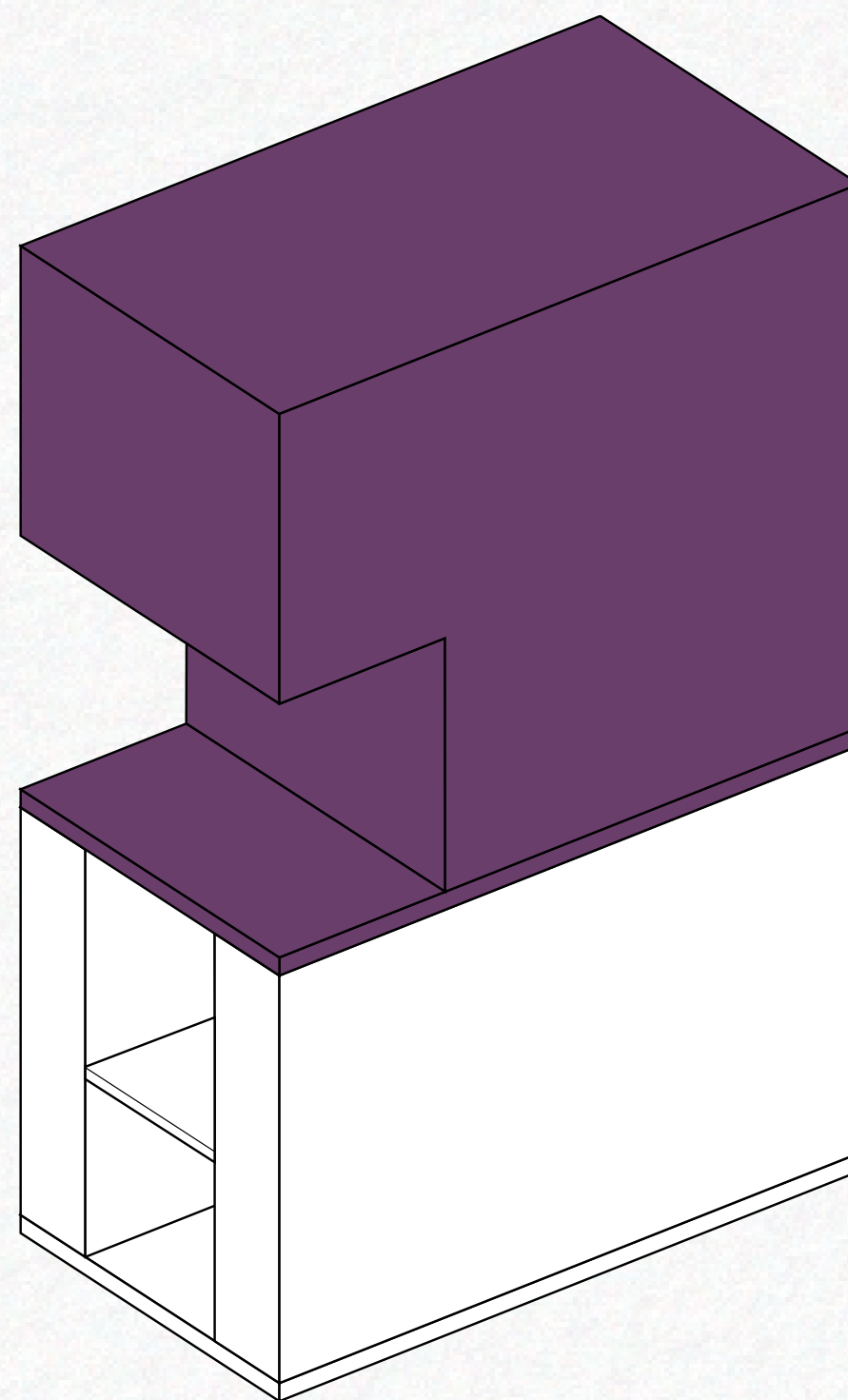
The Markandeya project, 1997
Sparc India



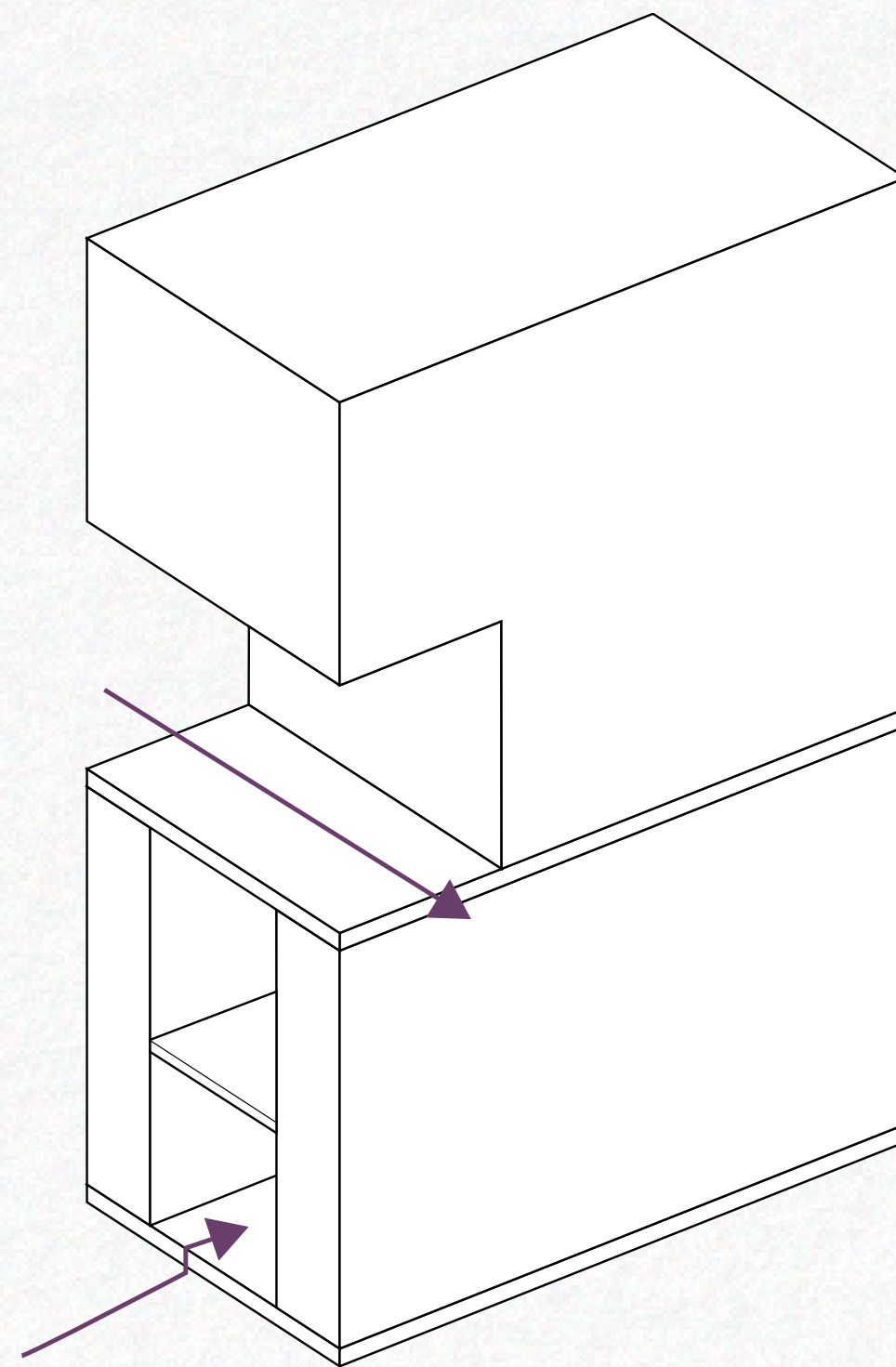
The Markandeya project, 1997
Sparc India



The Markandeya project, 1997
Sparc India



Mixing income levels



Mixing income levels







low-income
dwelling

30 - 60 m²

middle-income
dwelling

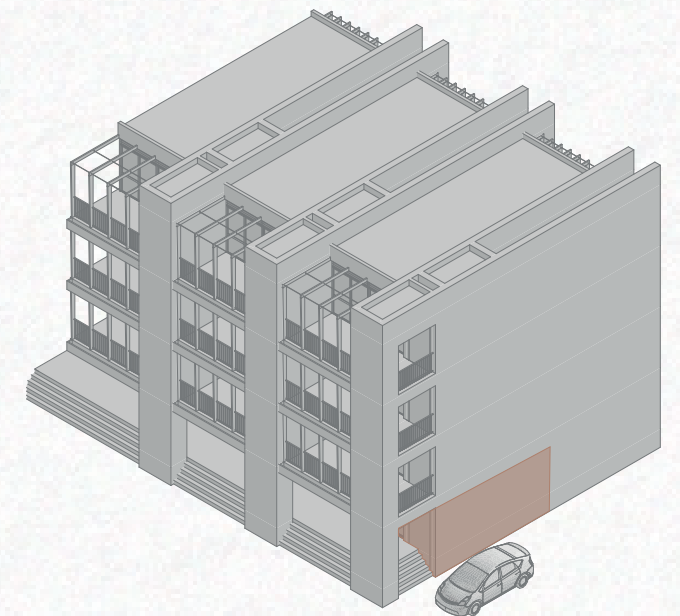
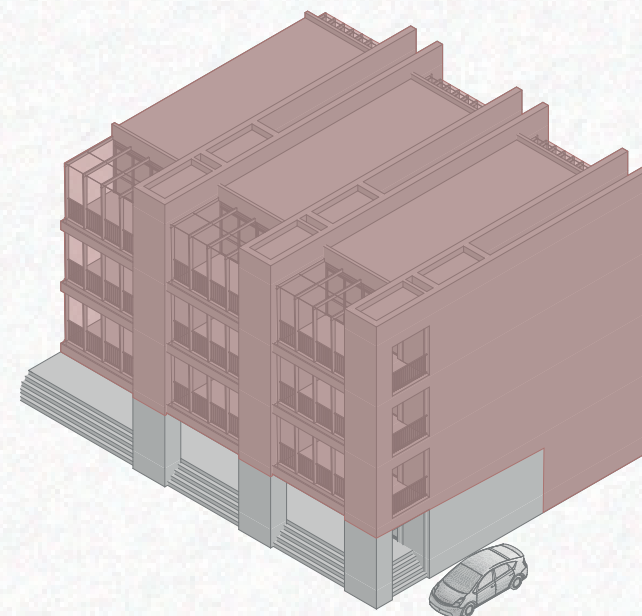
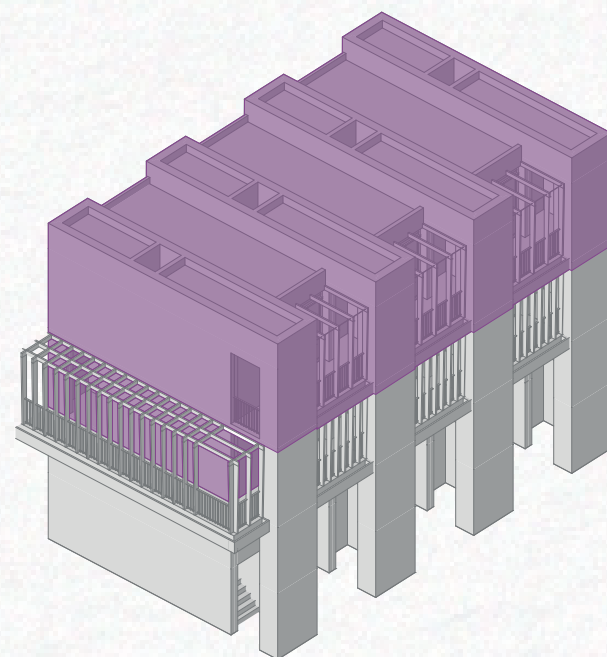
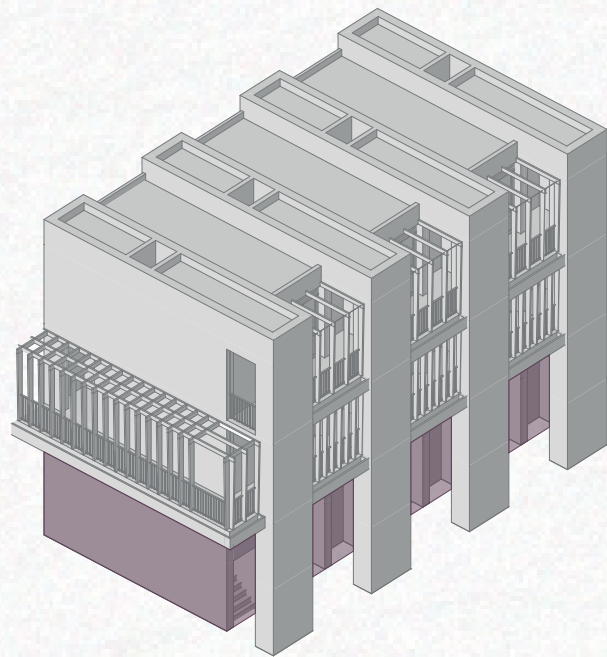
60 - 90 m²

high-income
dwelling

90 m²

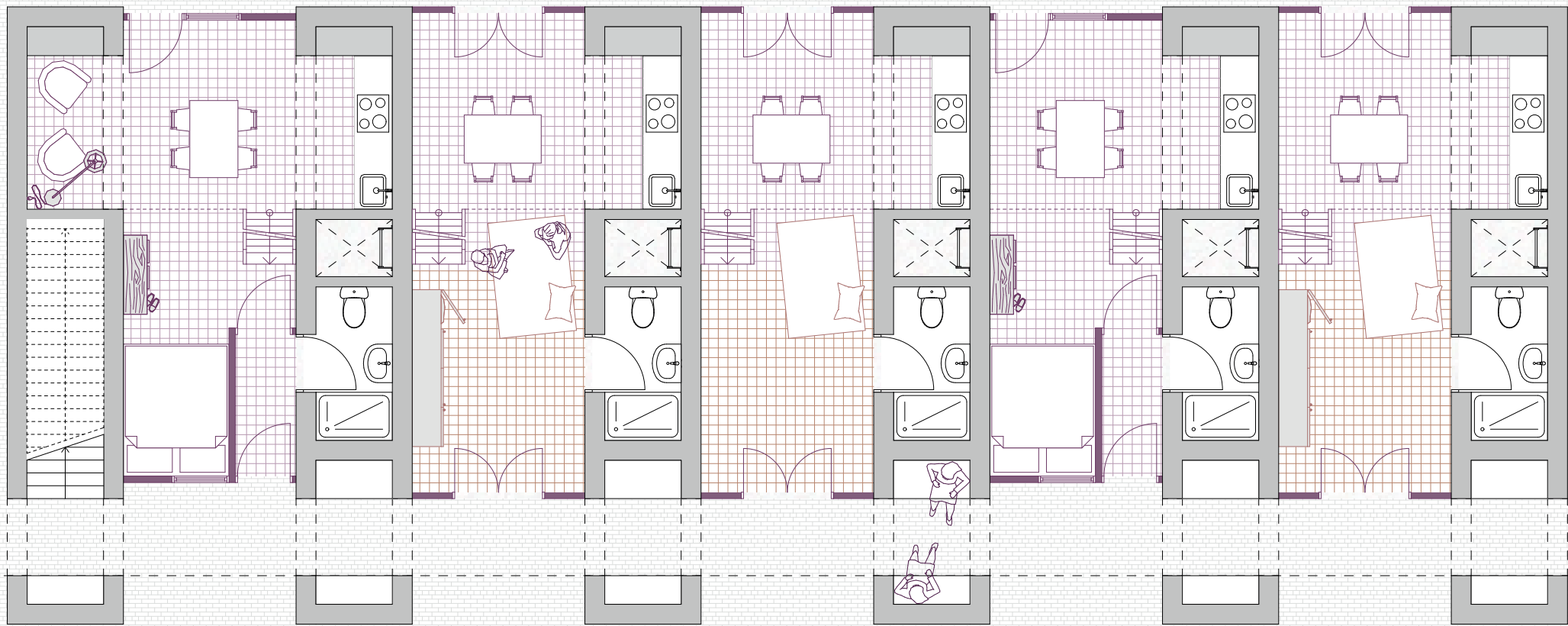
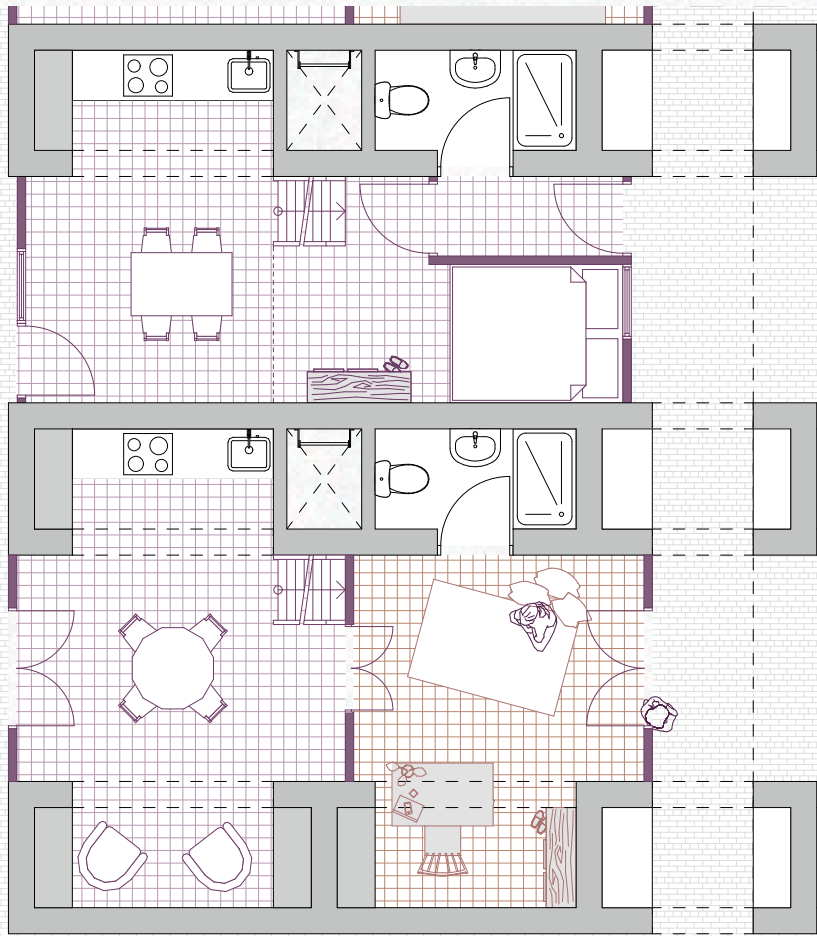
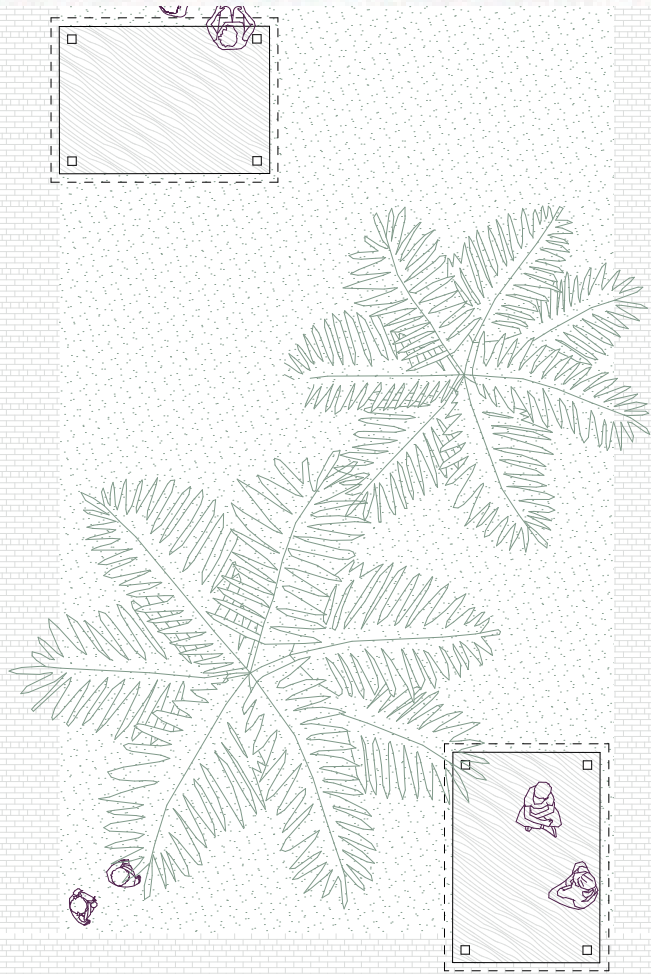
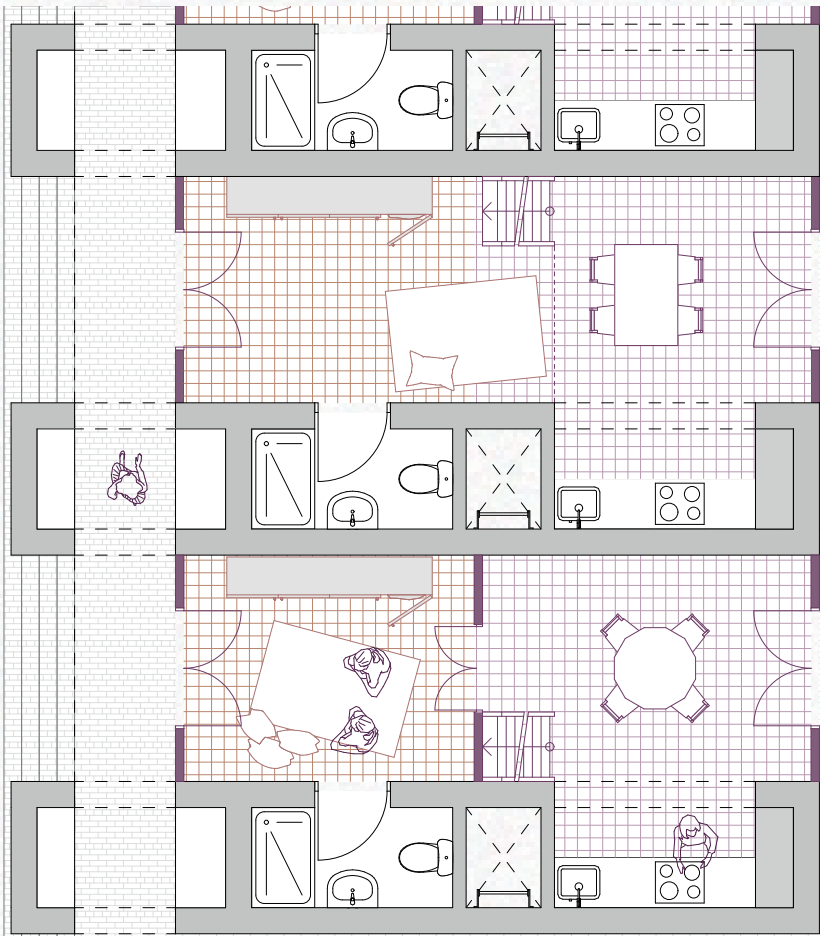
commercial
spaces

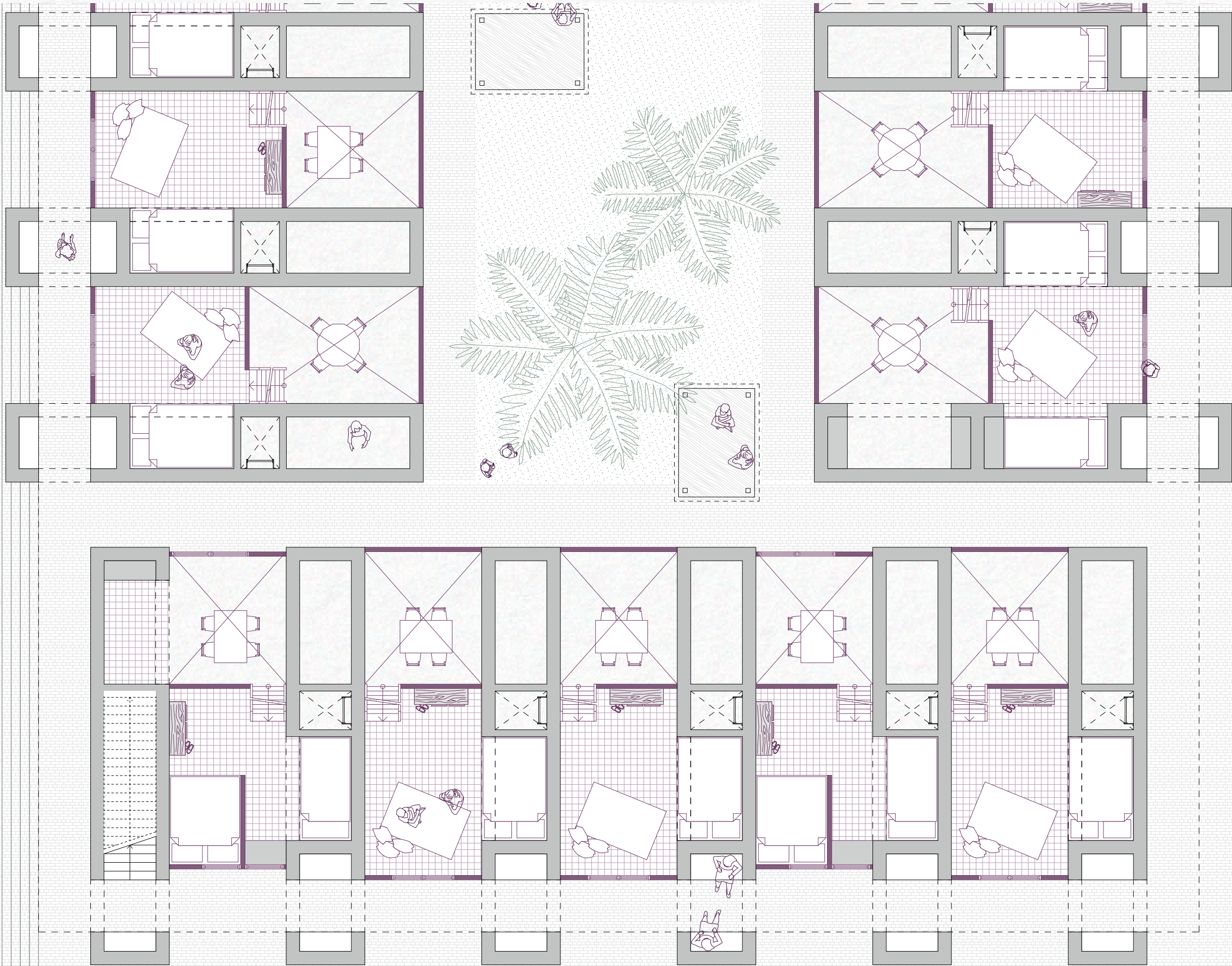
30 m²

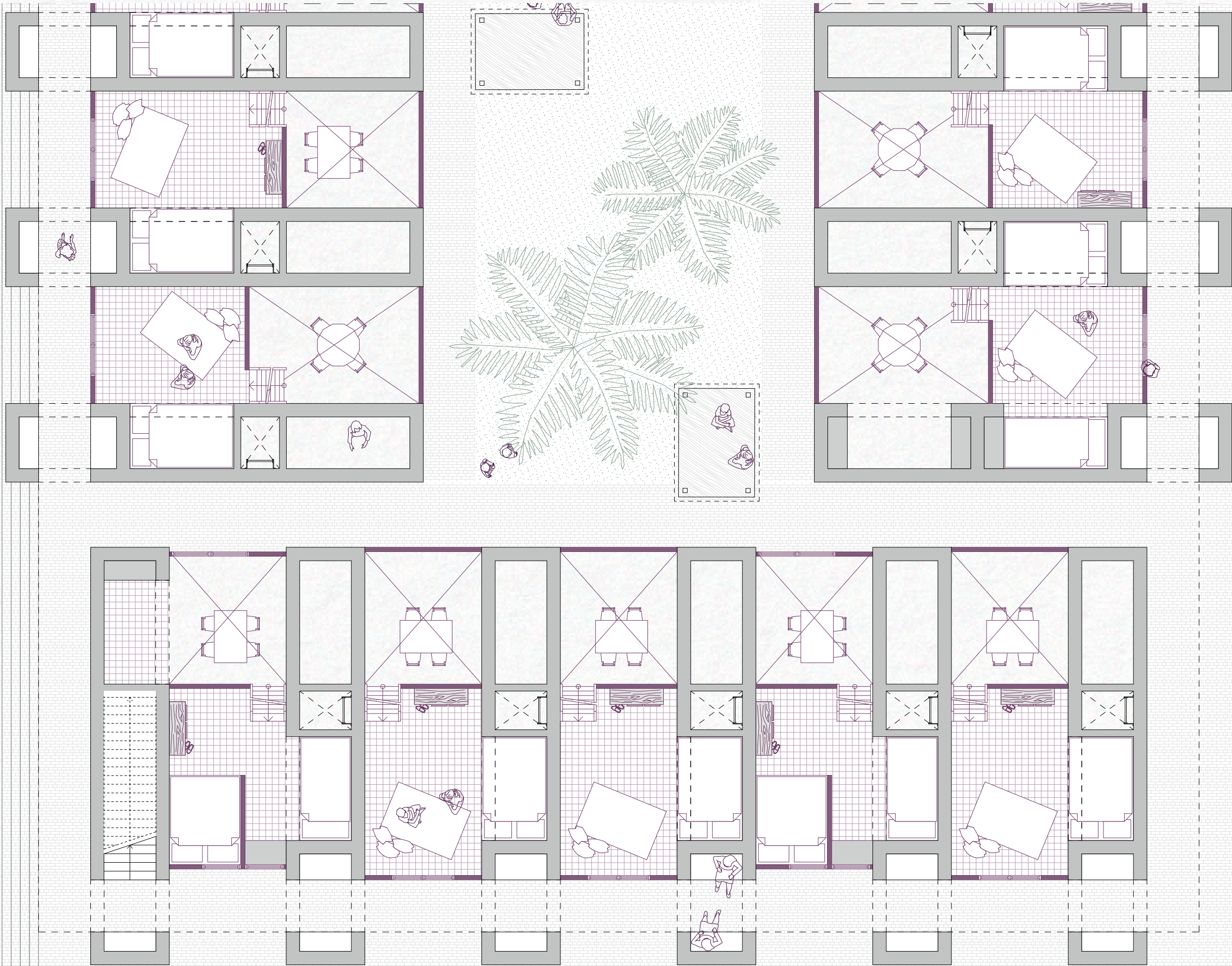


Typologies
Square meter









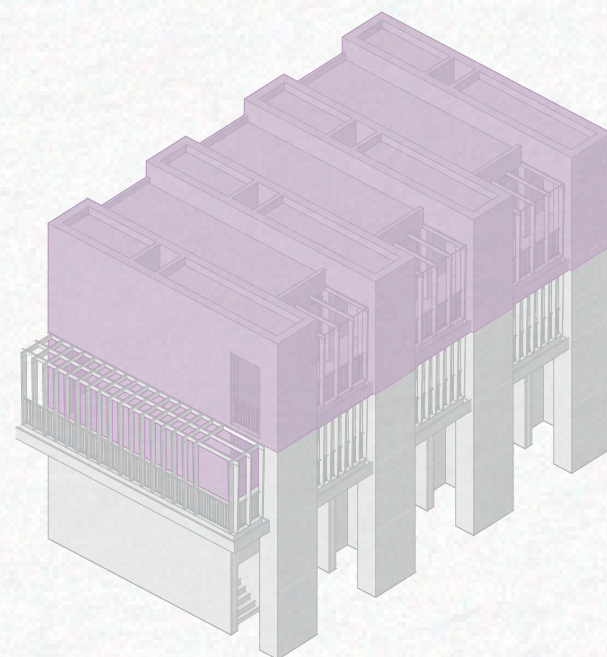
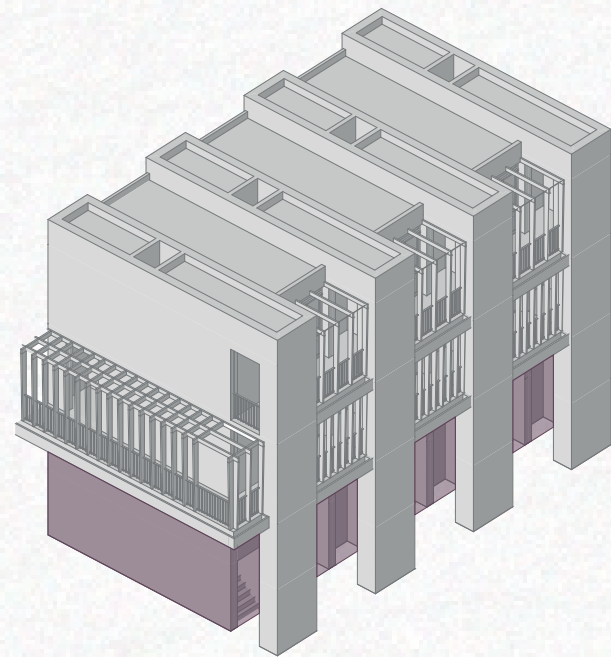


low-income dwelling

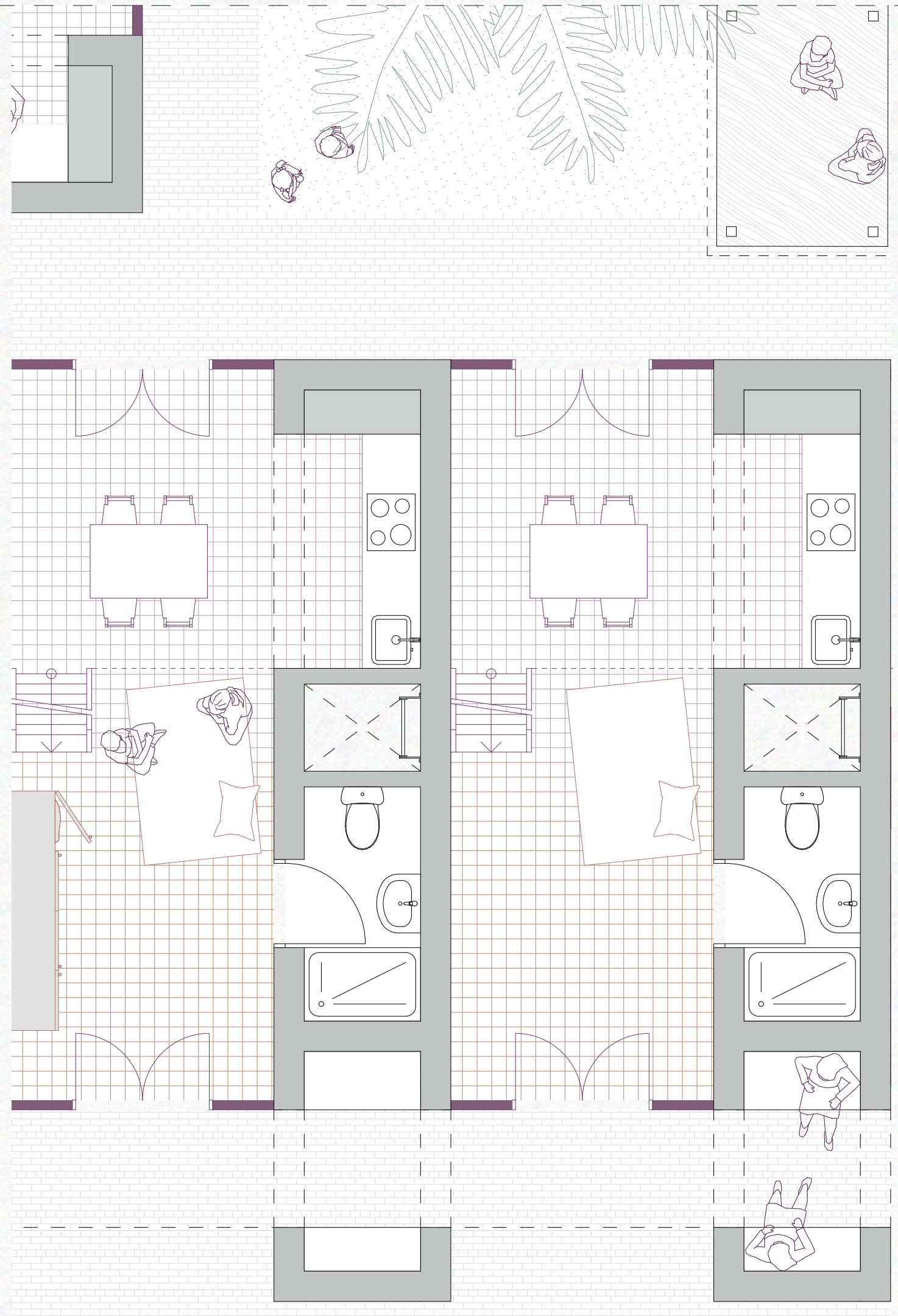
30 - 60 m²

middle-income dwelling

60 - 90 m²



Low income dwelling
30 - 60 m²

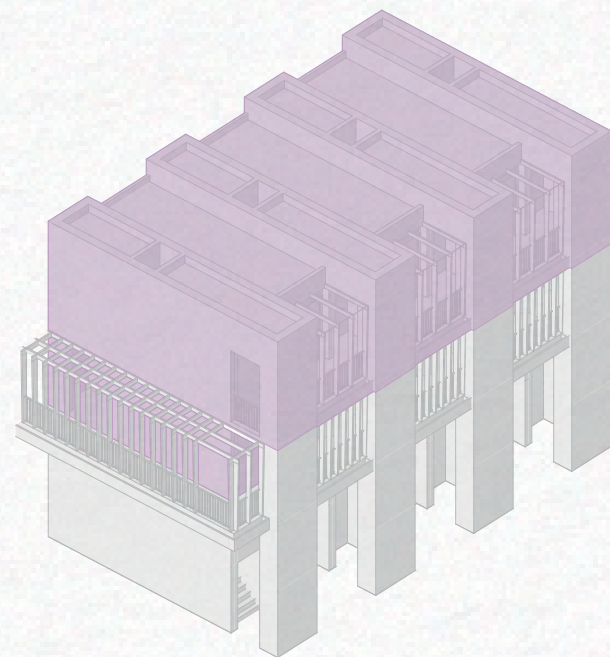
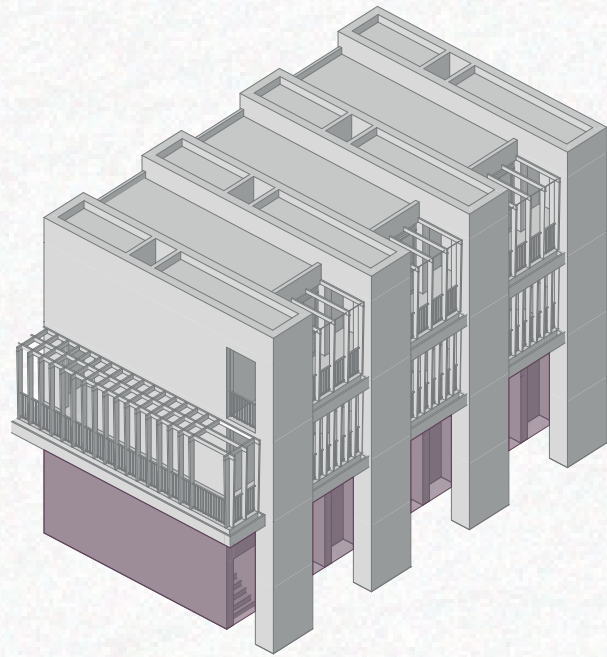


low-income
dwelling

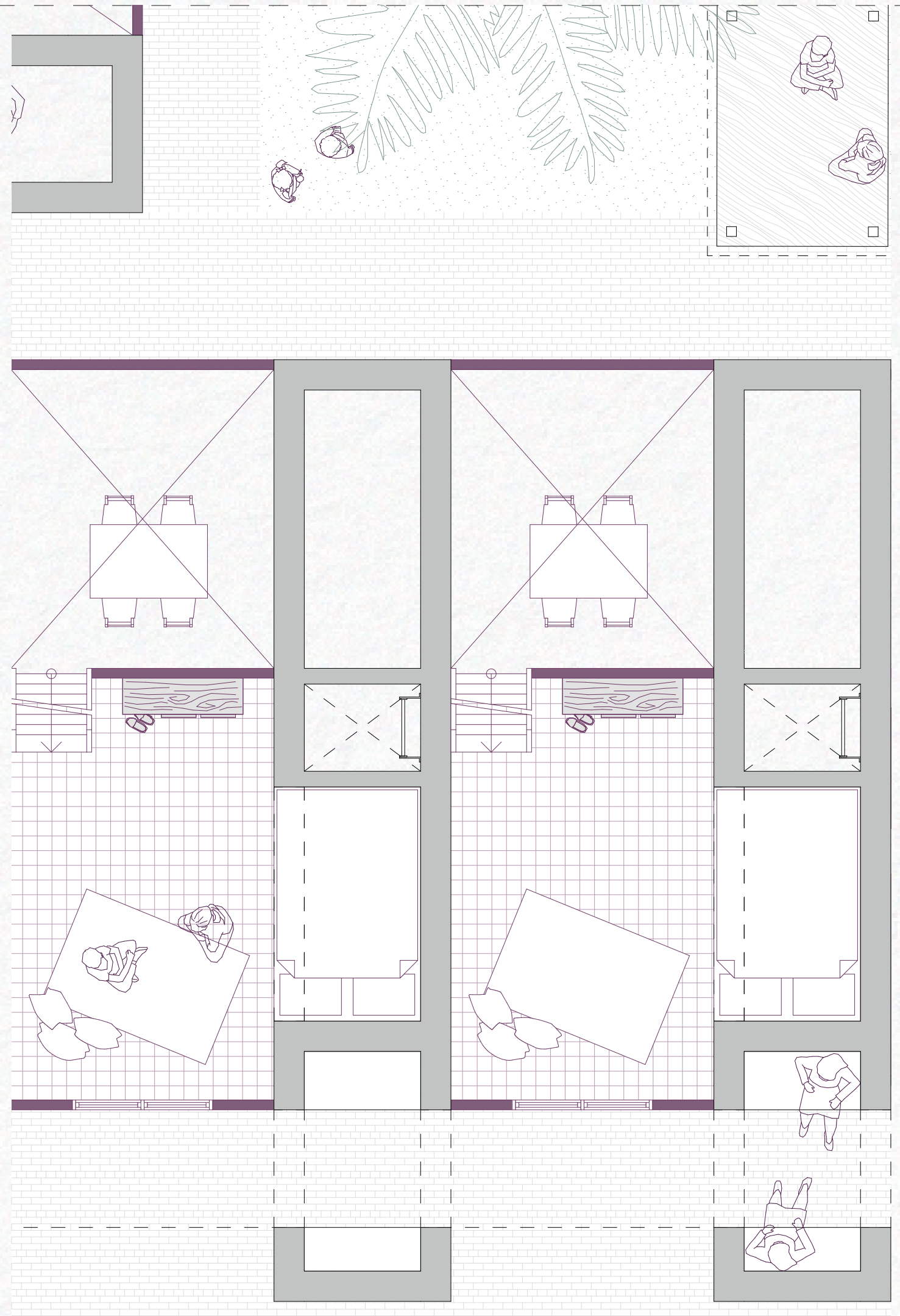
30 - 60 m²

middle-income
dwelling

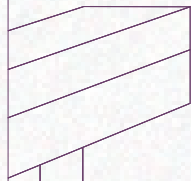
60 - 90 m²

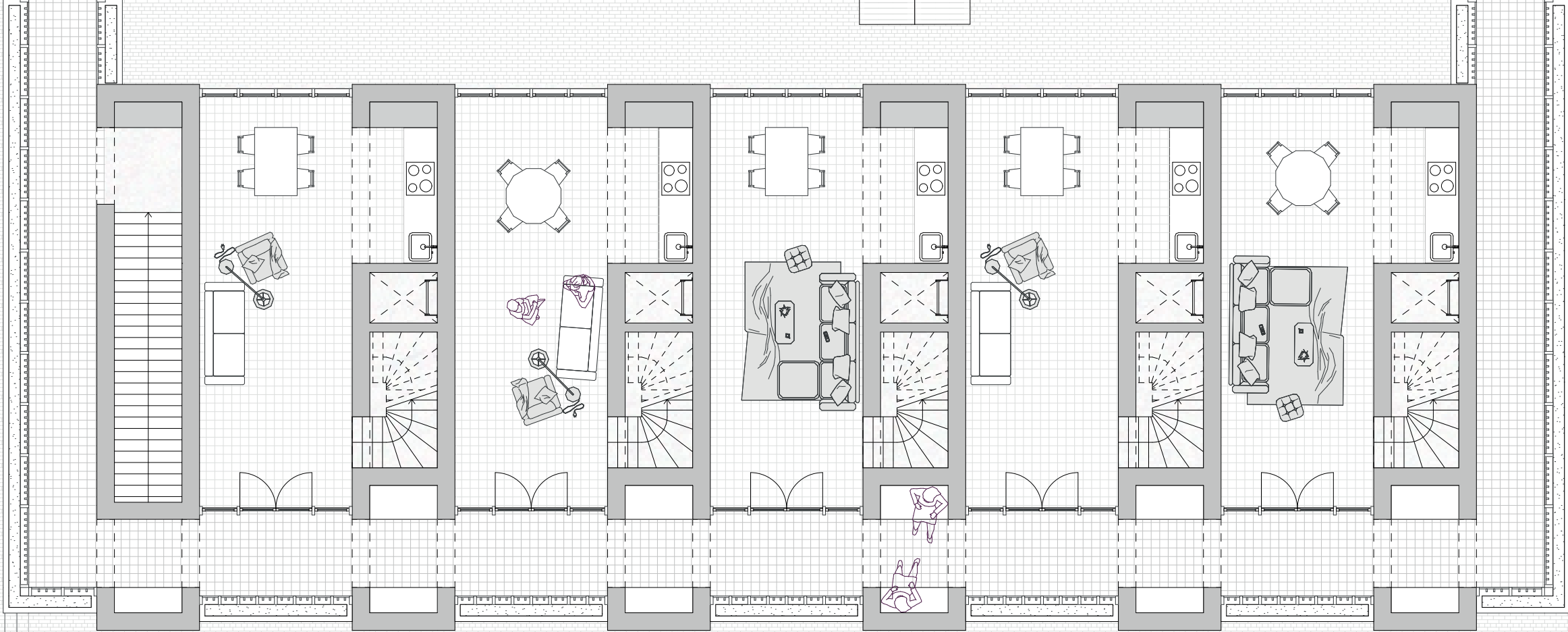
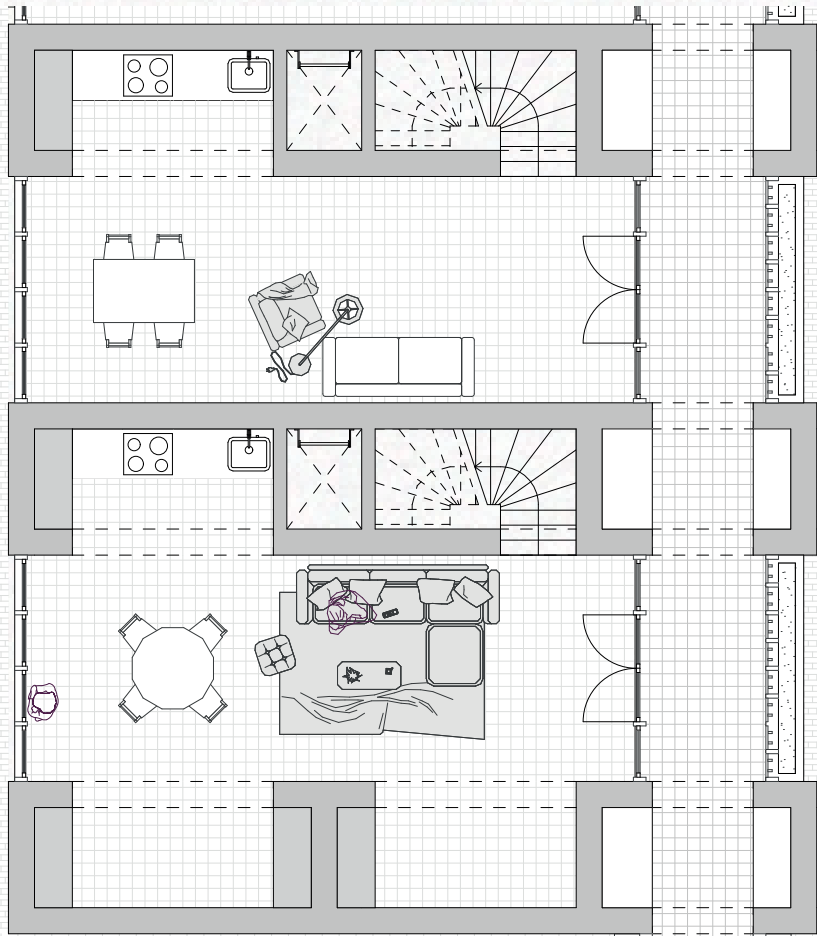
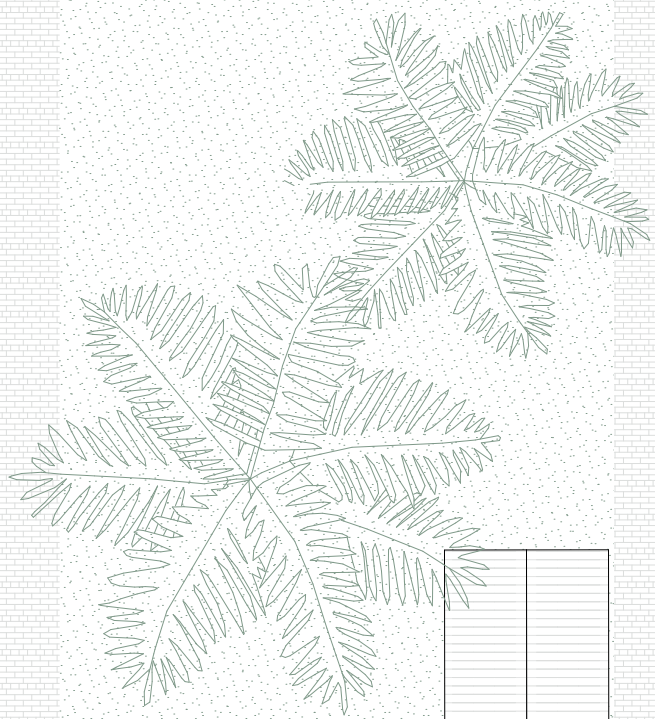
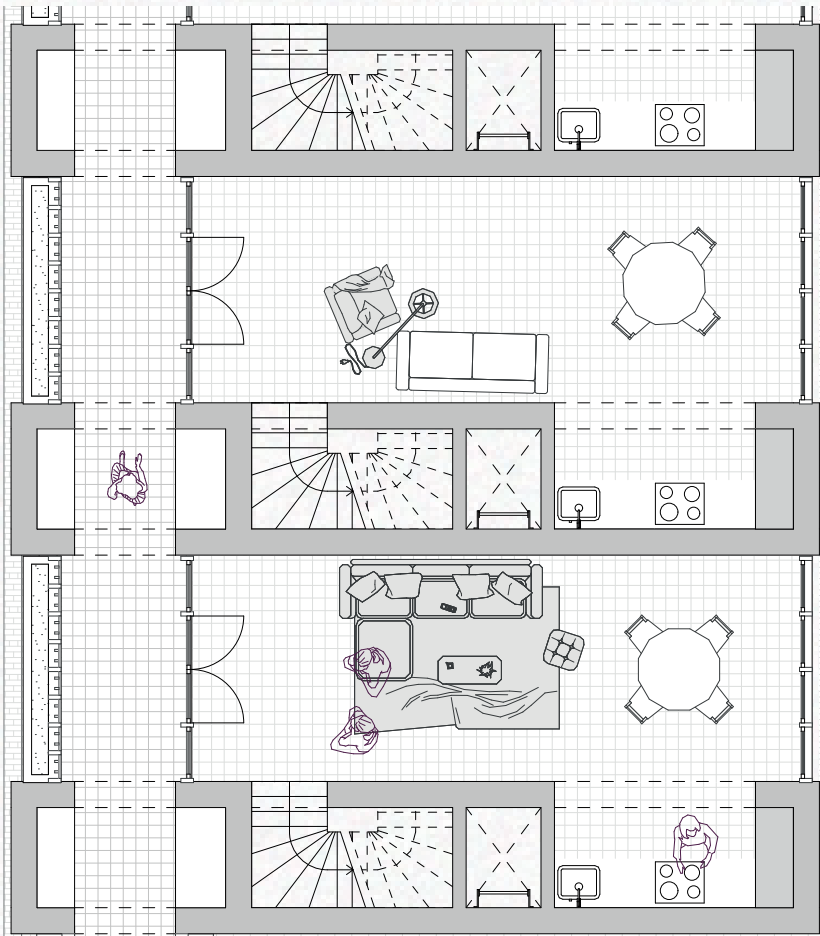


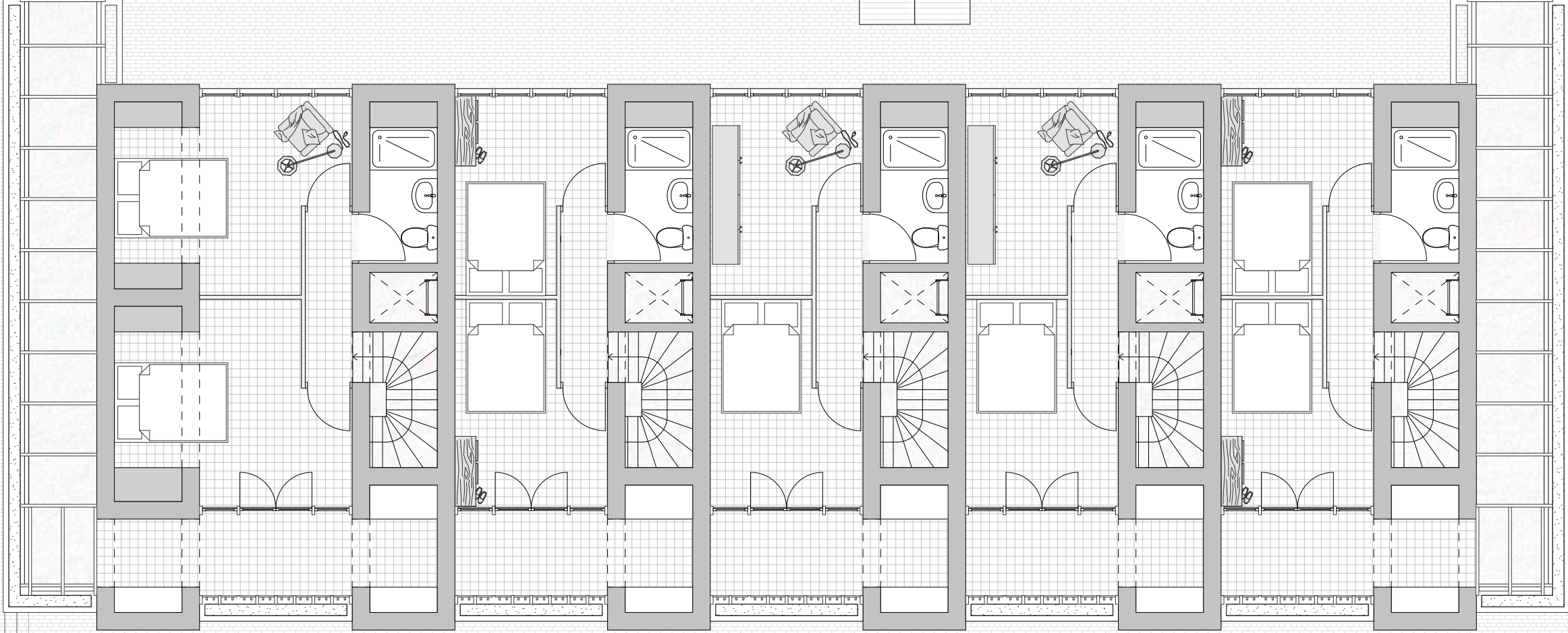
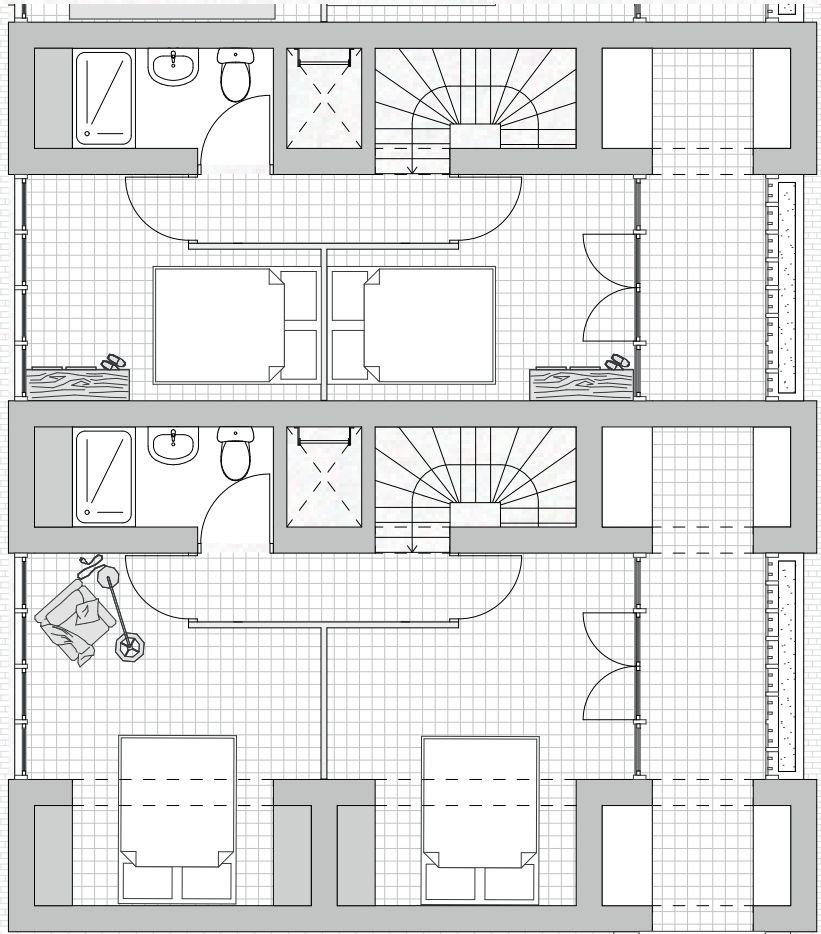
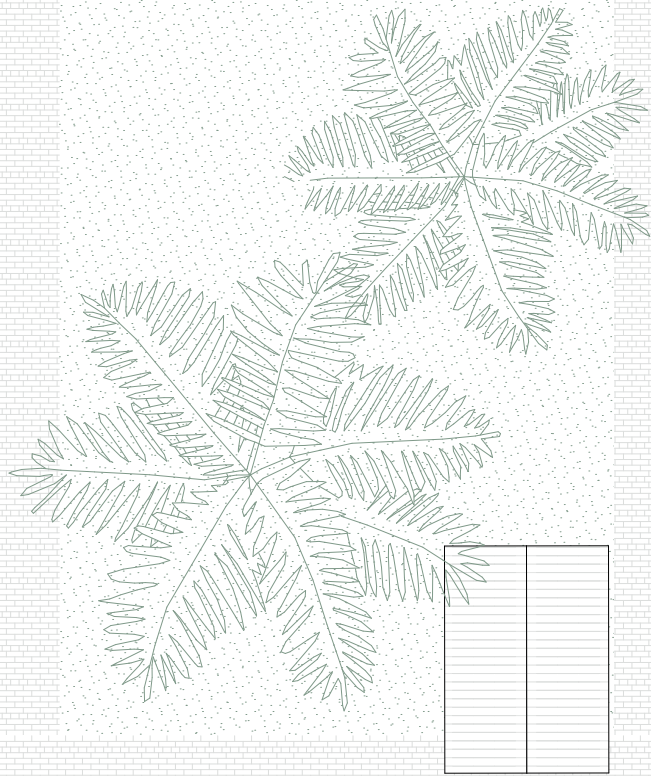
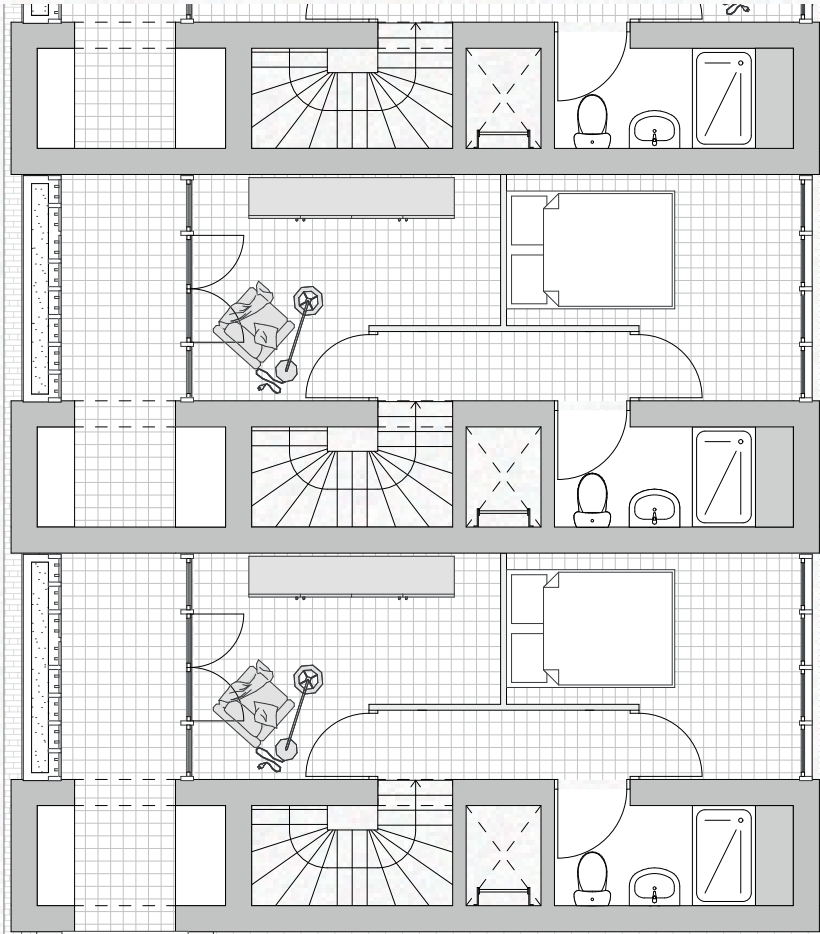
Low income dwelling
30 - 60 m²









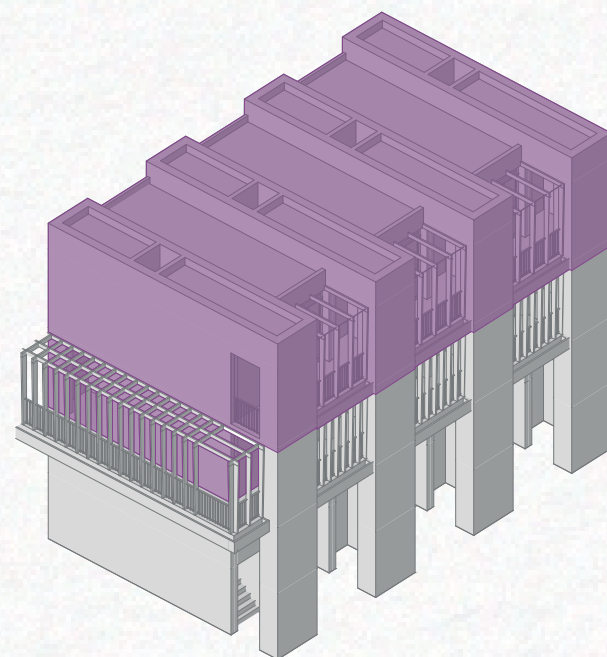
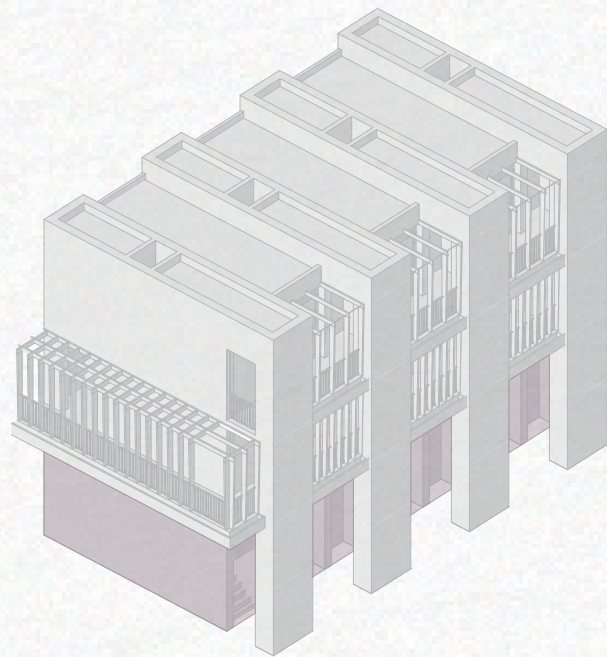


low-income
dwelling

30 - 60 m²

middle-income
dwelling

60 - 90 m²



Middle income dwelling
60 - 90 m²

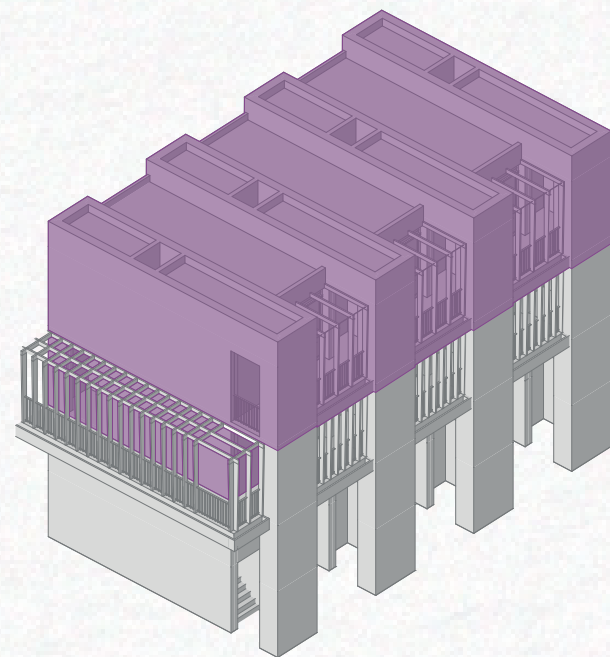
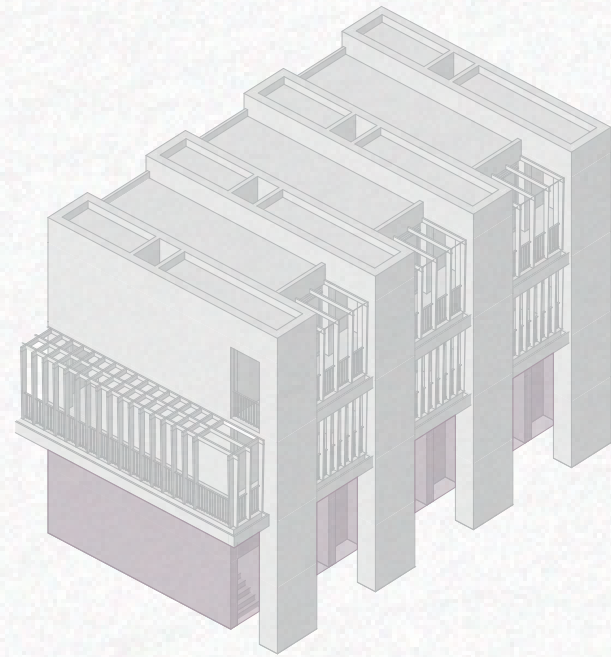


low-income
dwelling

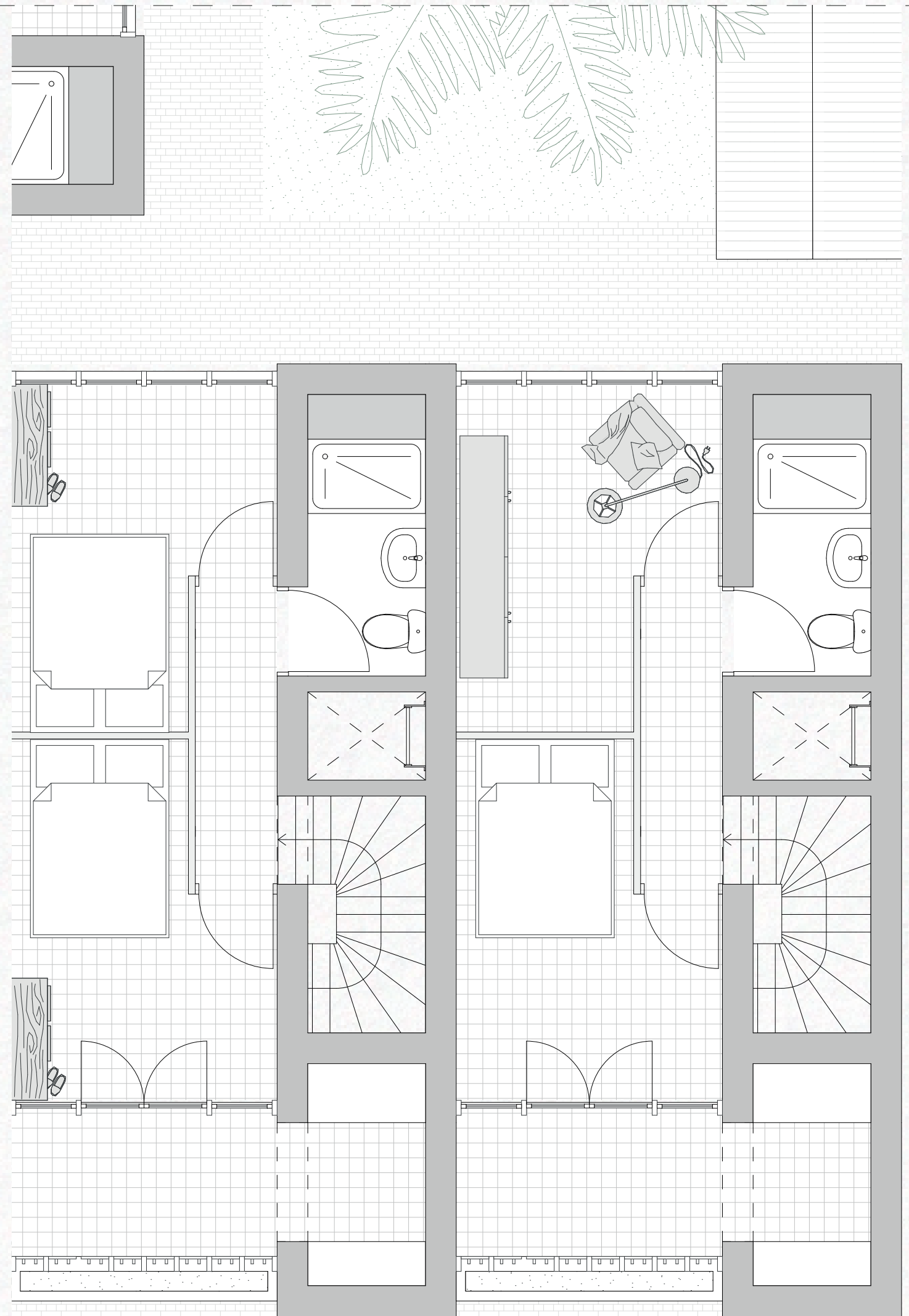
30 - 60 m²

middle-income
dwelling

60 - 90 m²



Middle income dwelling
60 - 90 m²



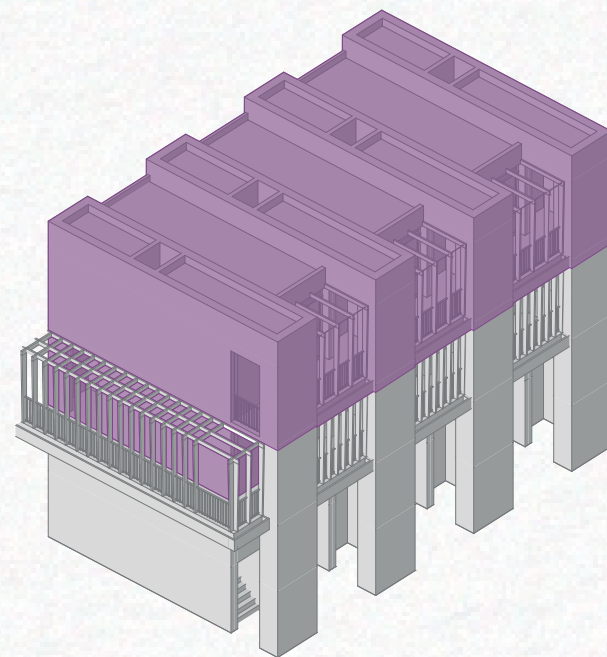
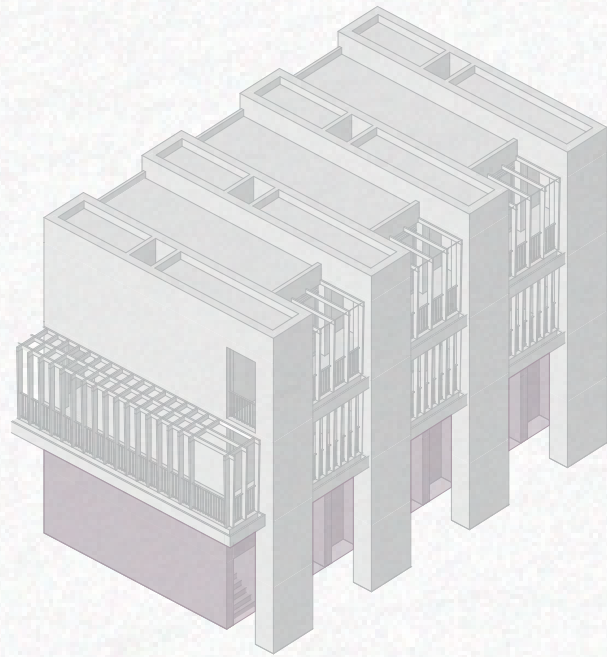


low-income
dwelling

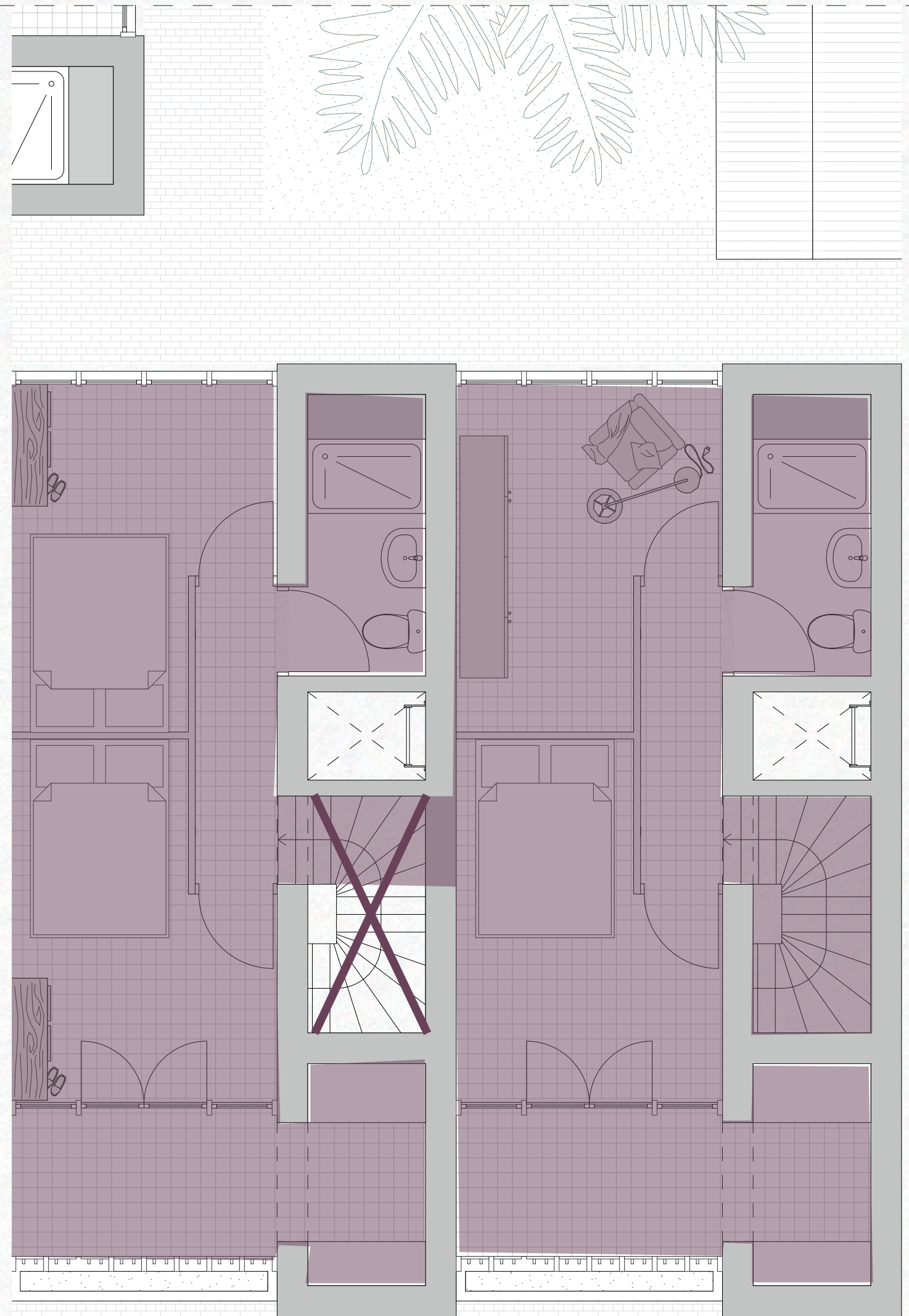
30 - 60 m²

middle-income
dwelling

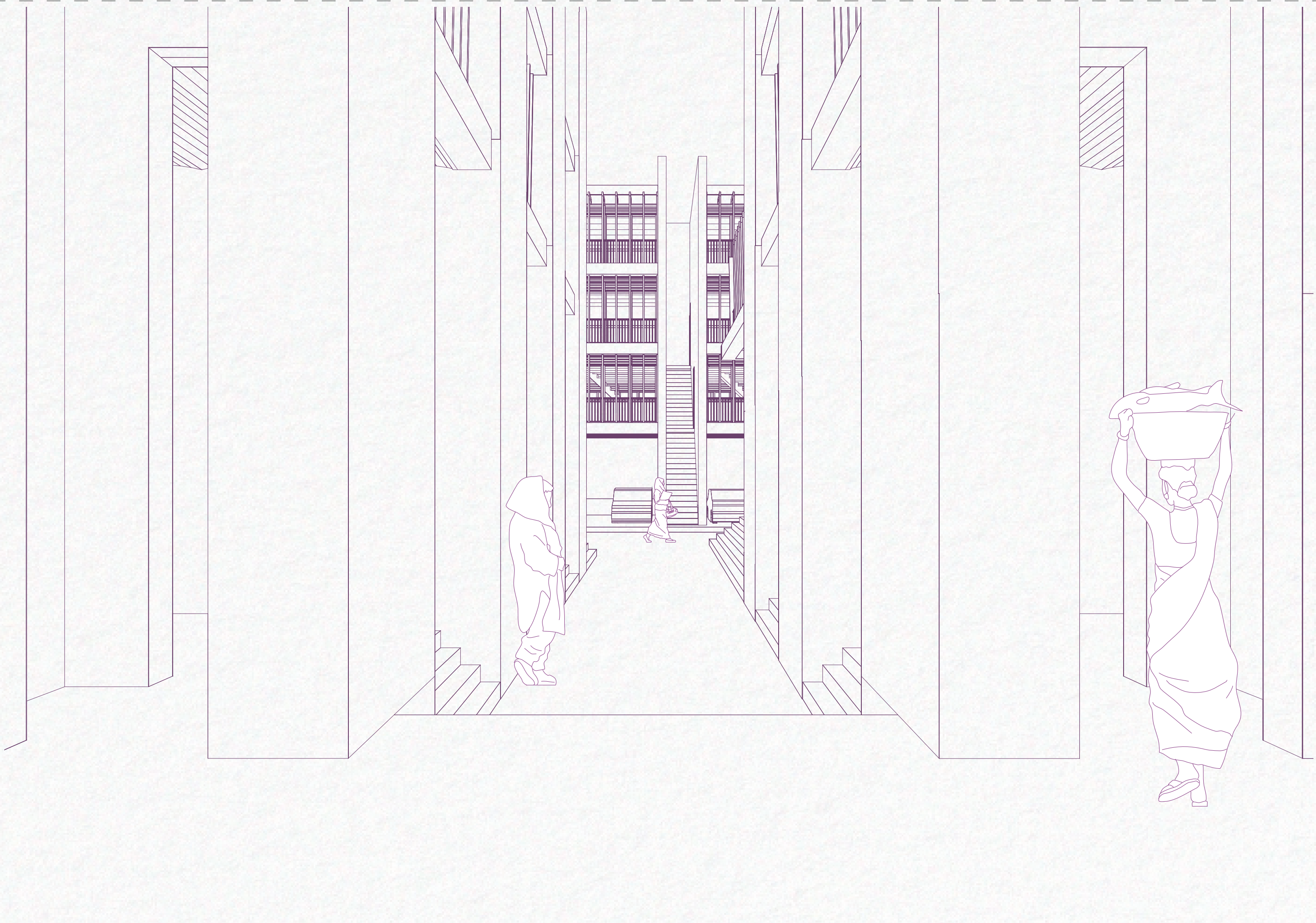
60 - 90 m²



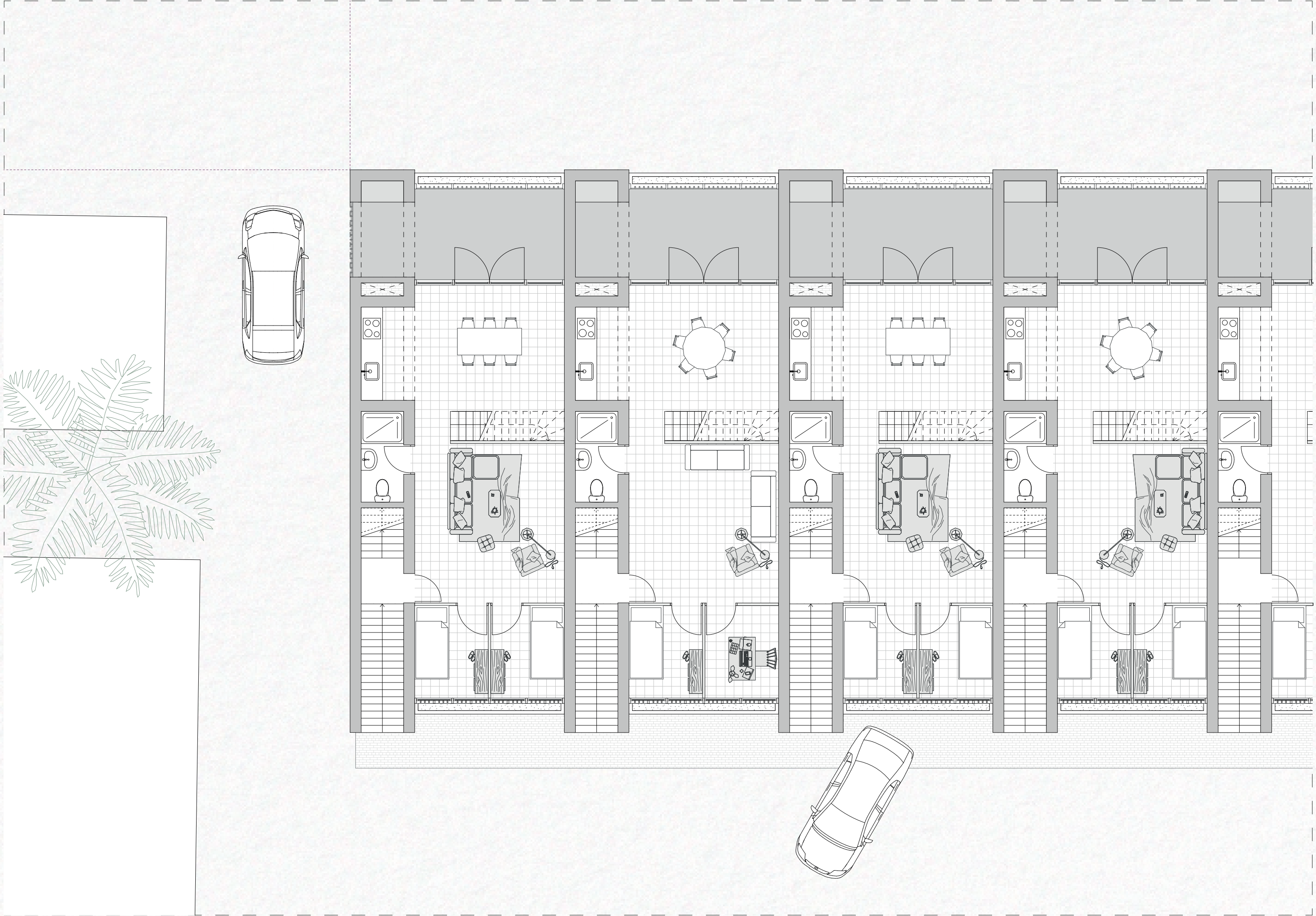
Middle income dwelling
60 - 90 m2

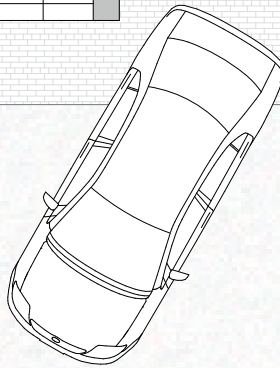
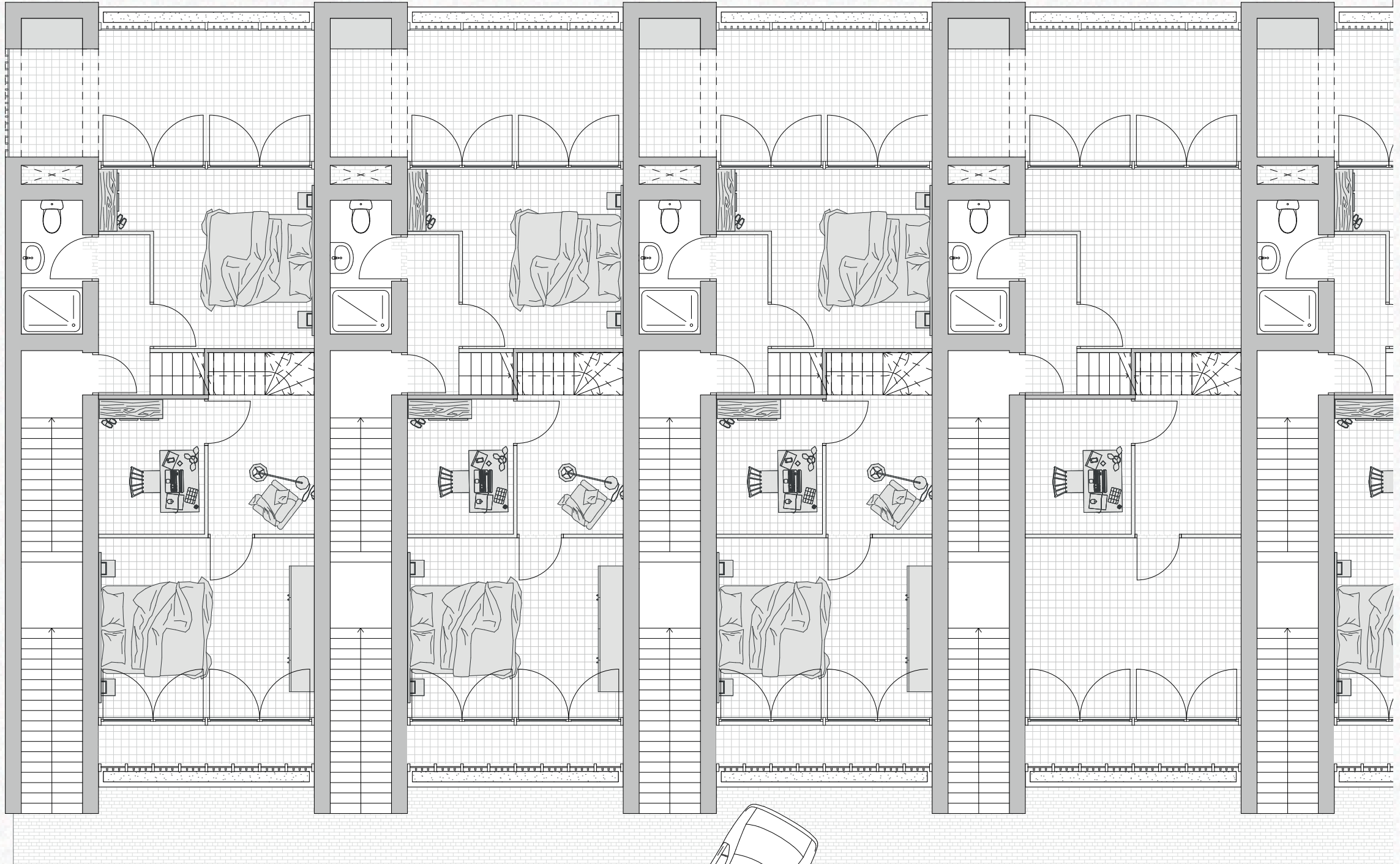
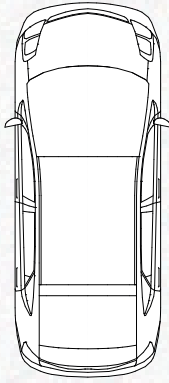
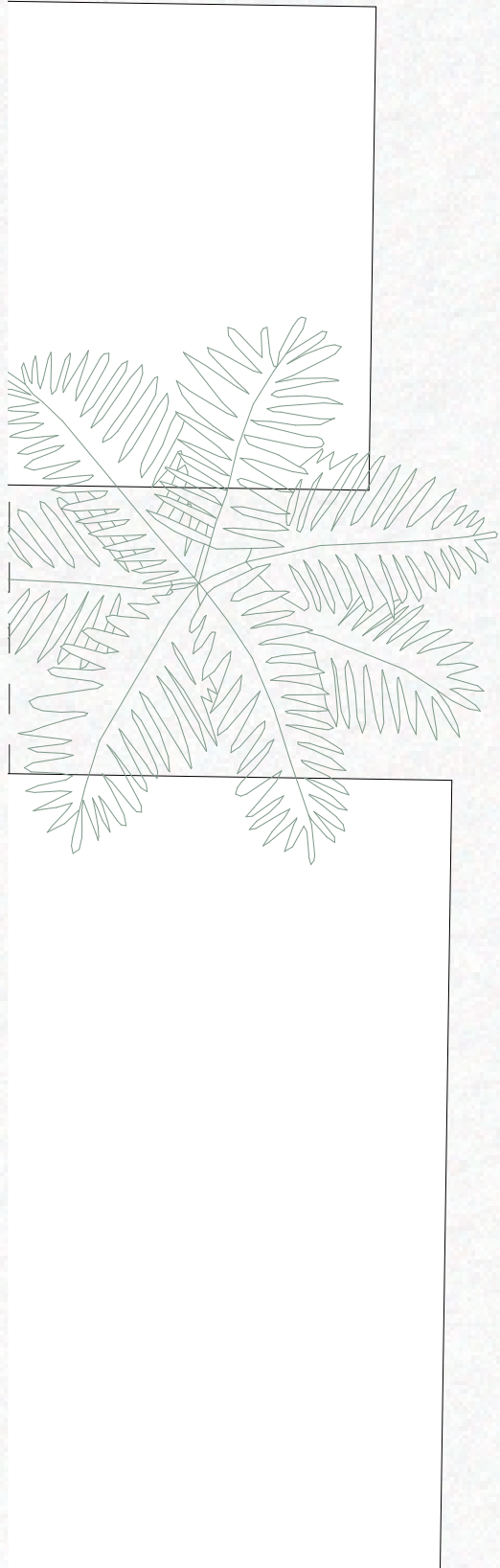


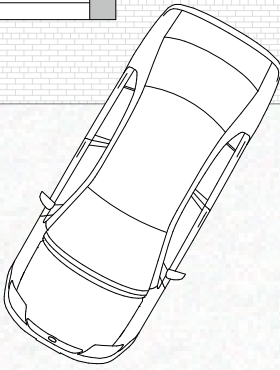
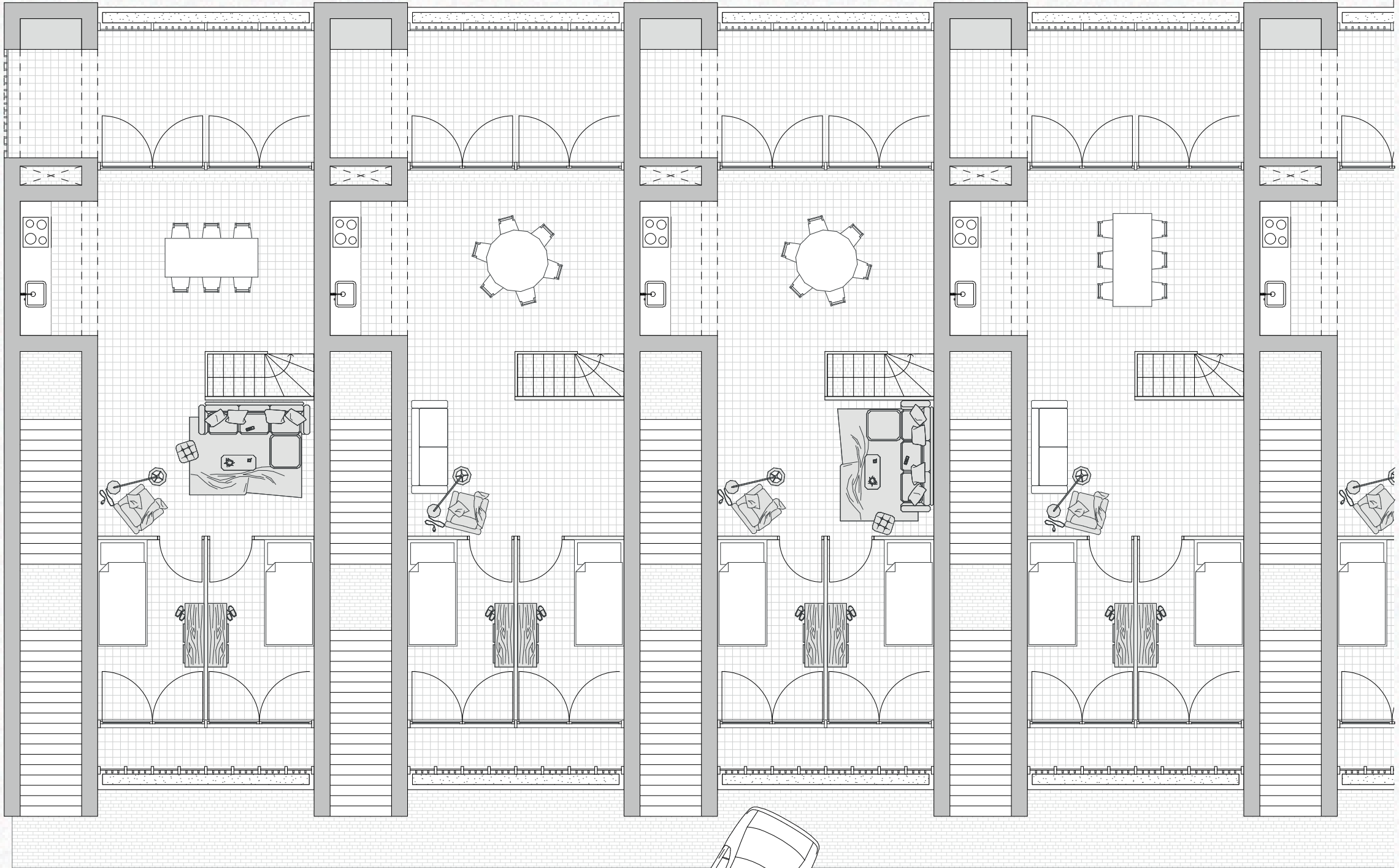
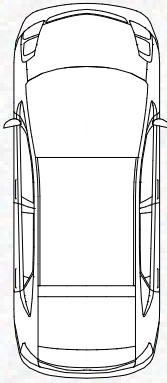
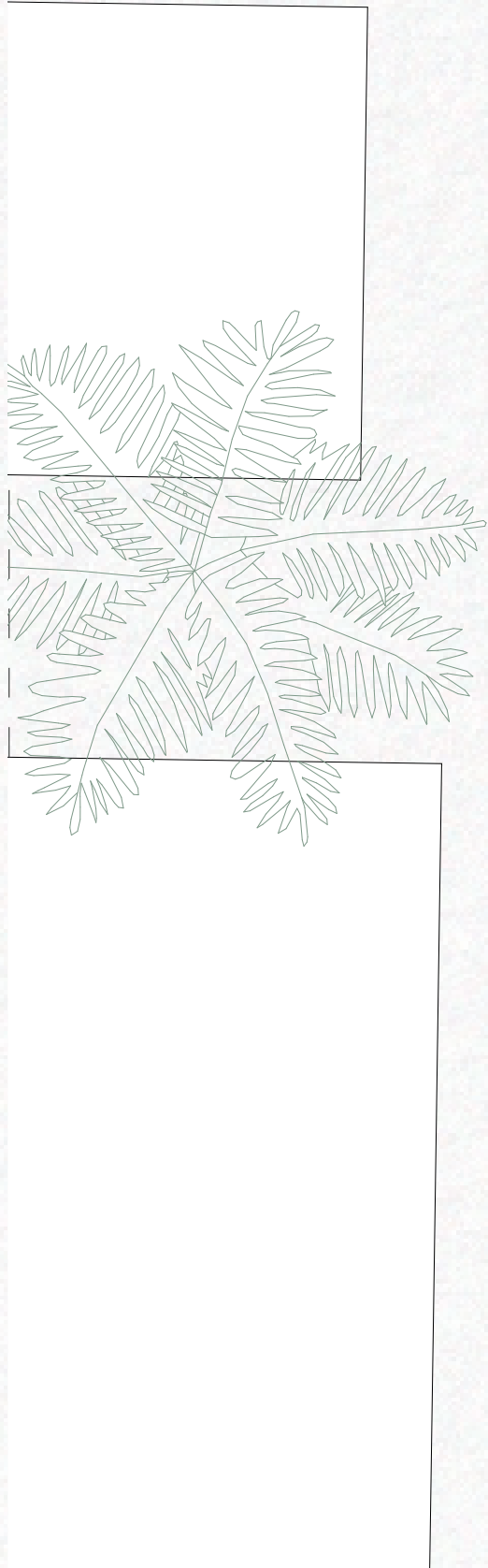










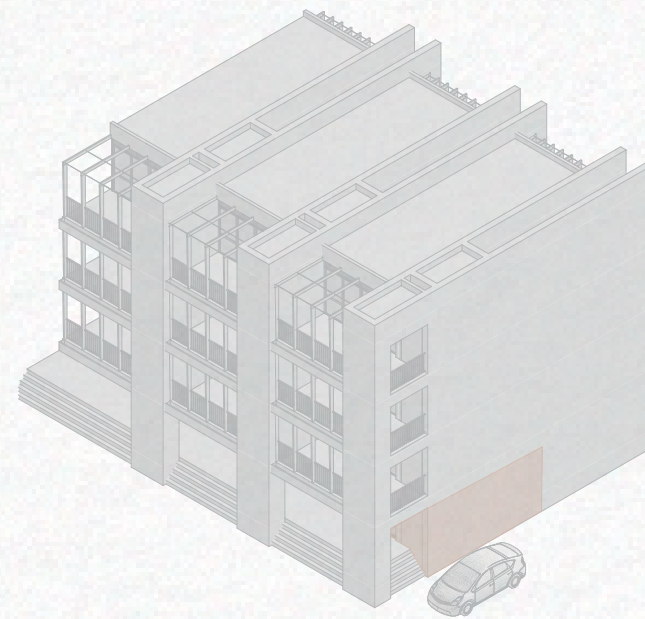
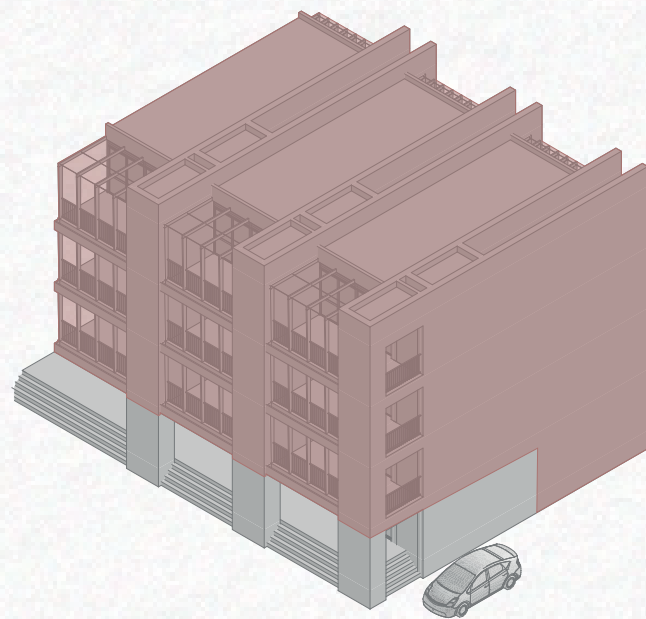


high-income dwelling

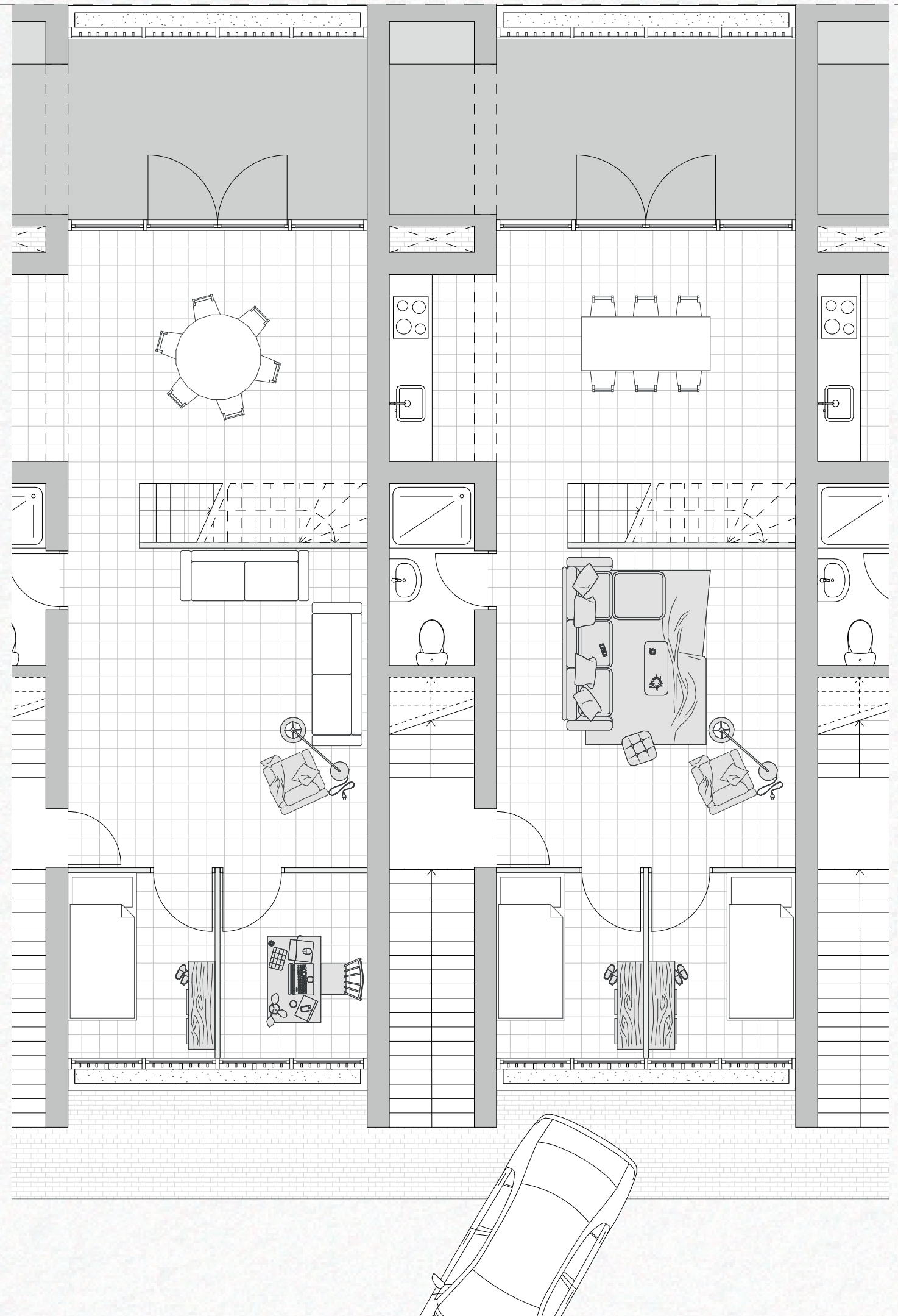
90 m²

commercial spaces

30 m²



high income dwelling
90 m2

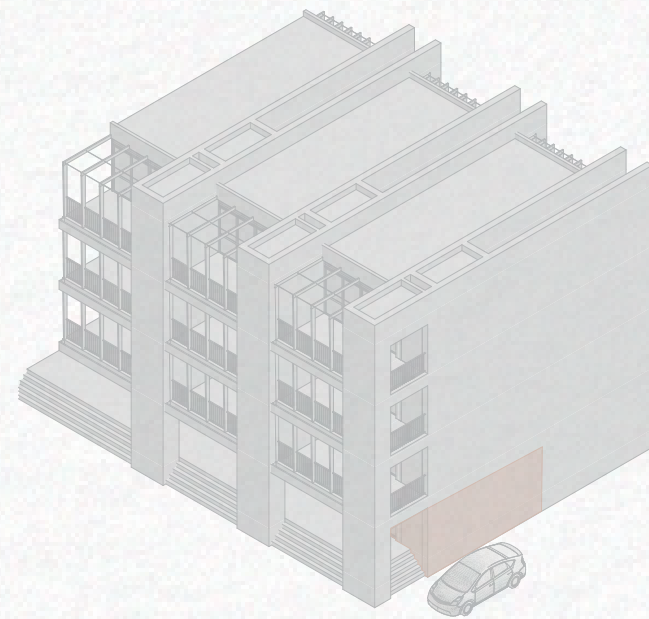
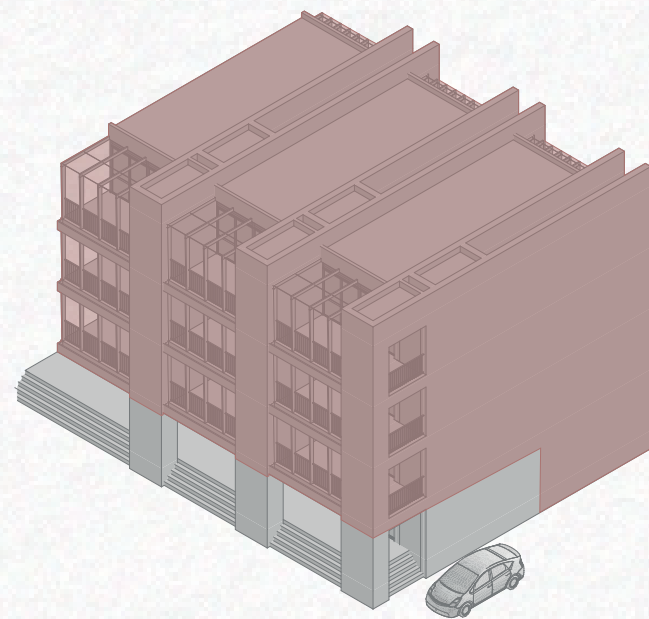


high-income
dwelling

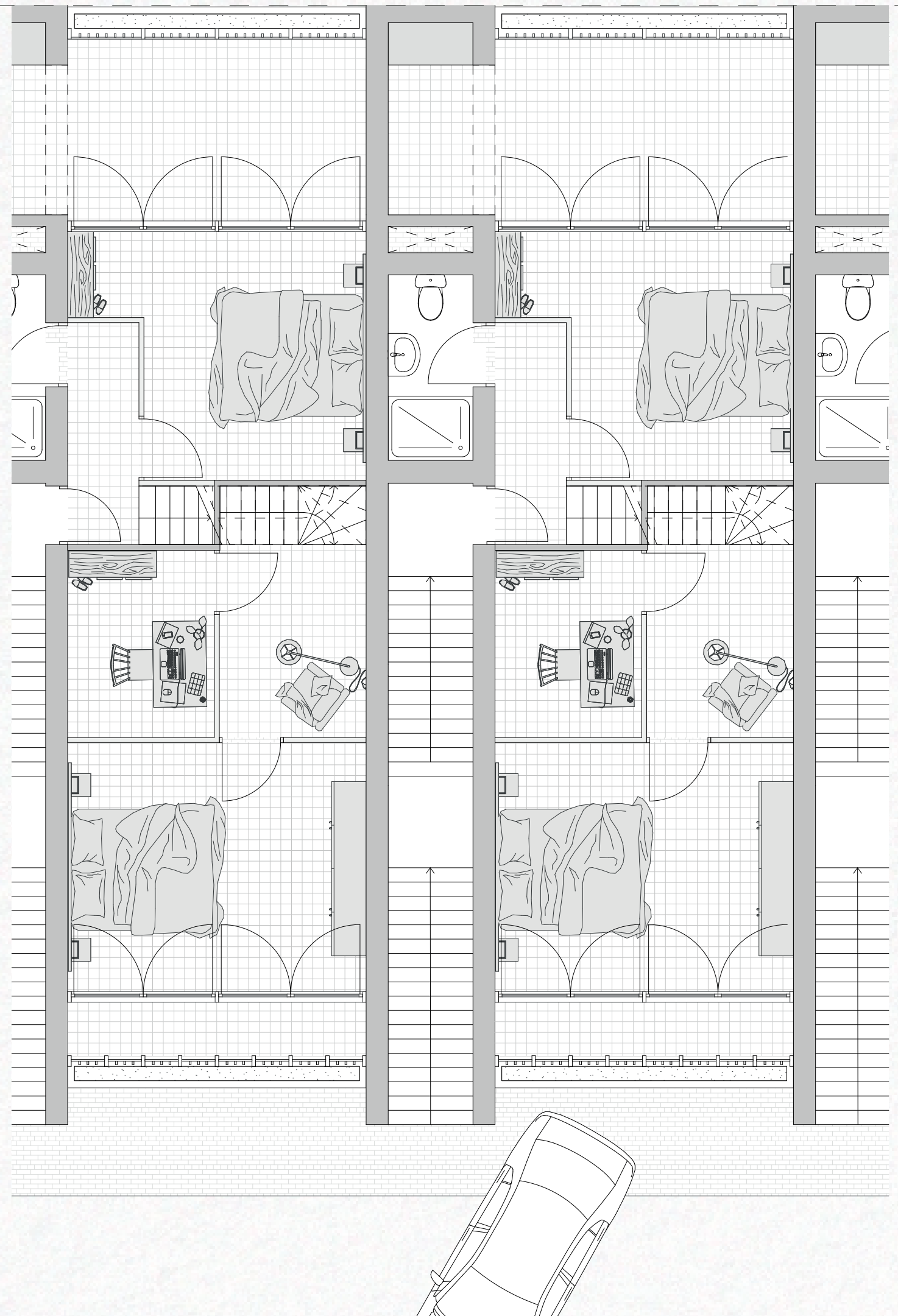
90 m²

commercial
spaces

30 m²



high income dwelling
90 m2

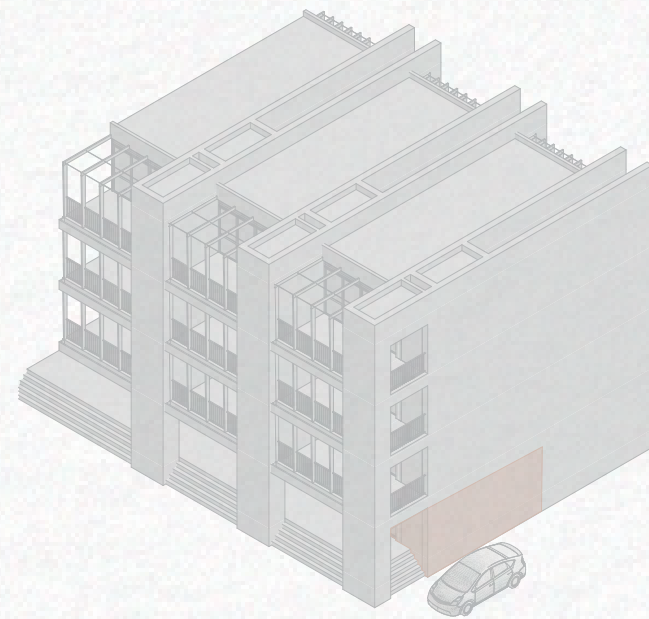
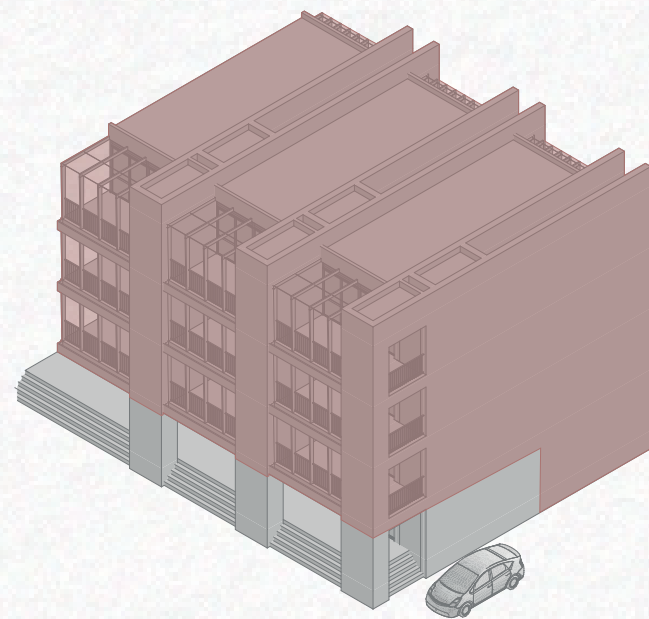


high-income
dwelling

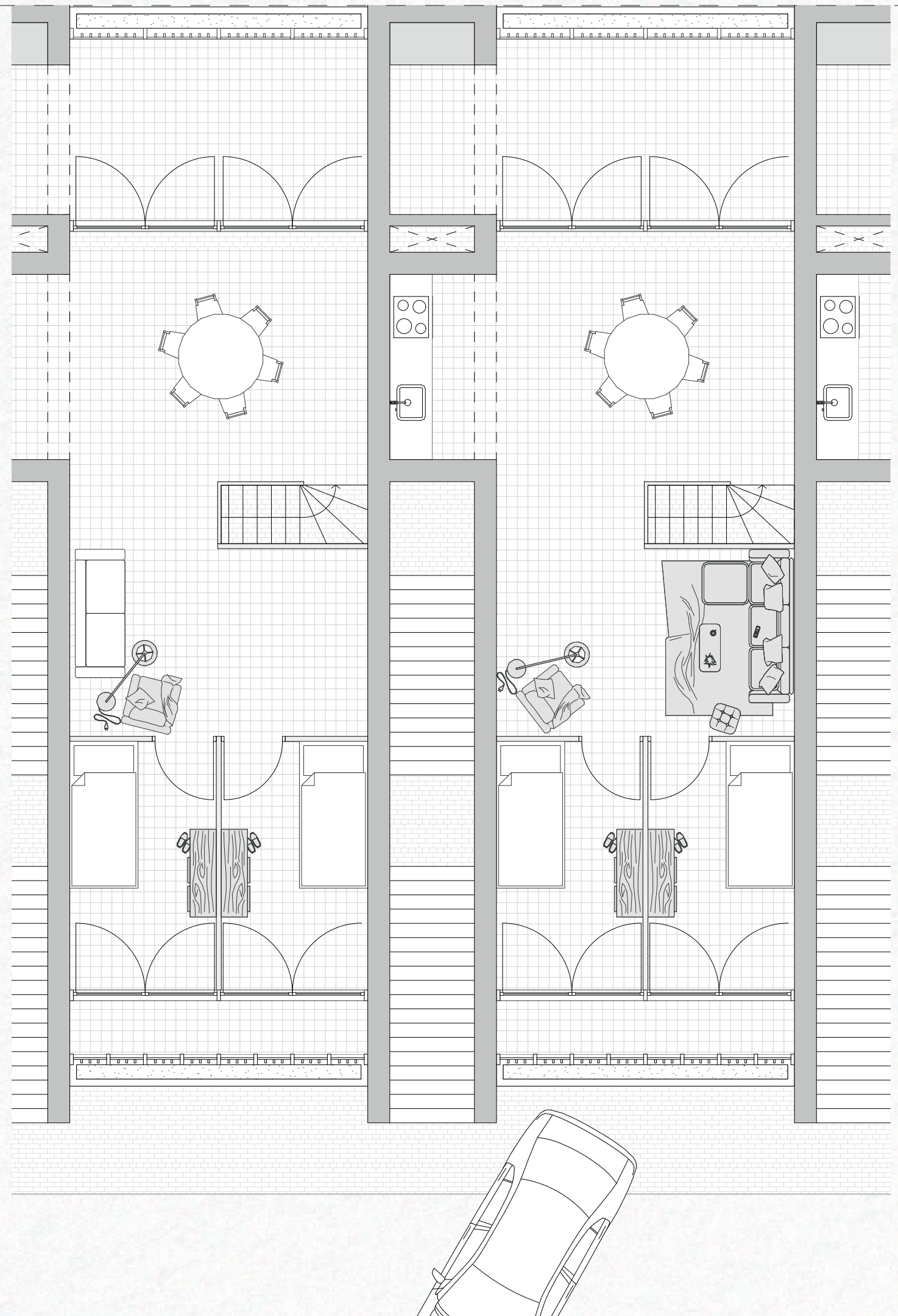
90 m²

commercial
spaces

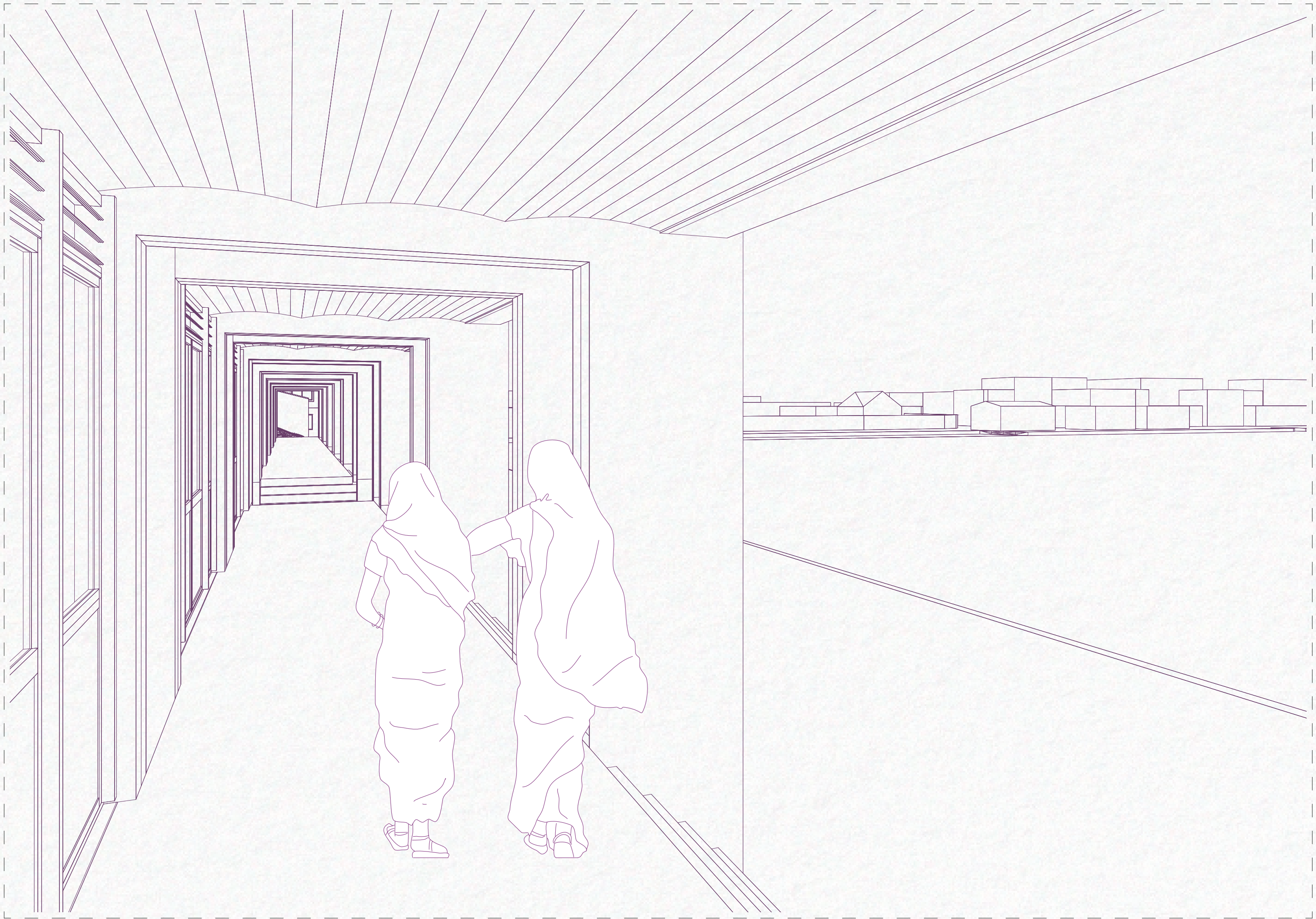
30 m²



high income dwelling
90 m2





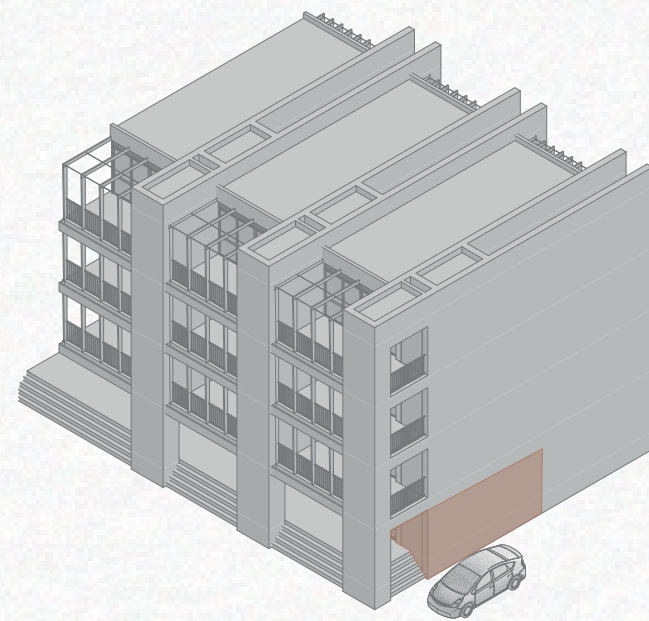
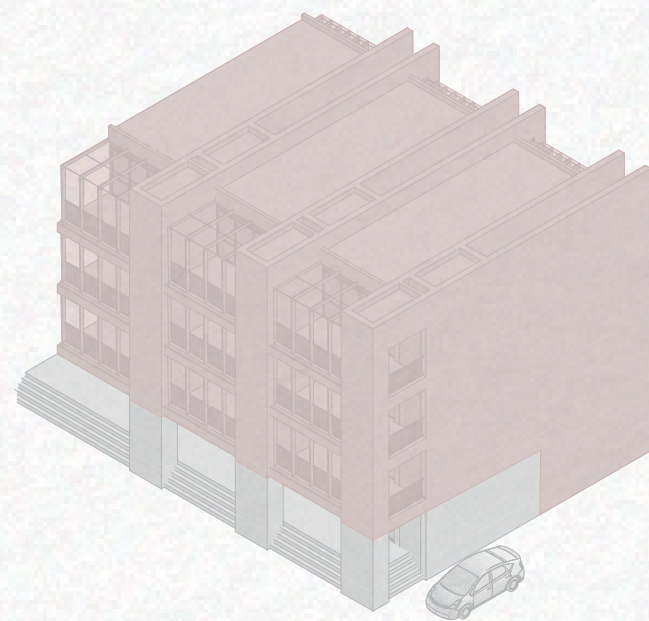


high-income
dwelling

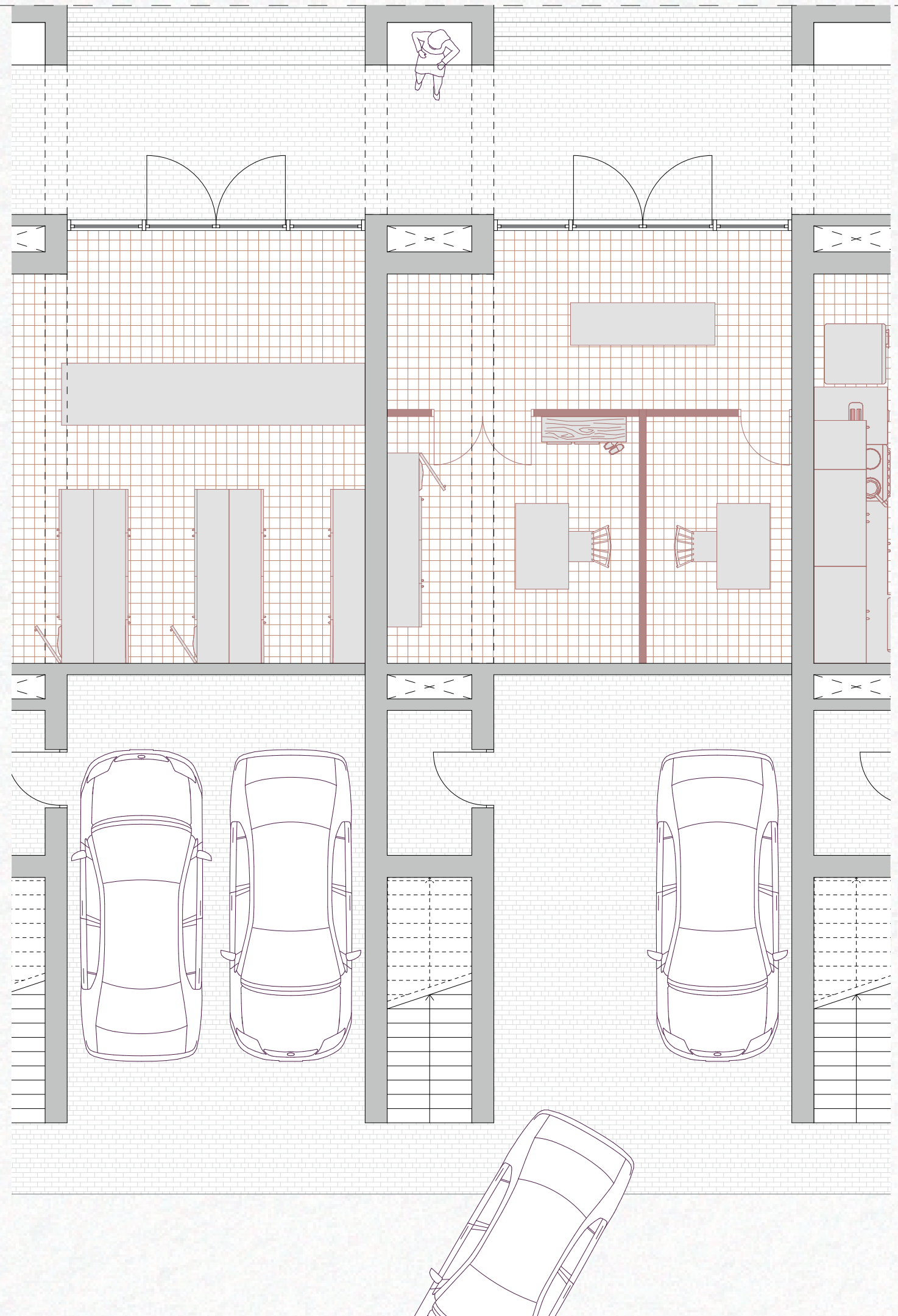
90 m²

commercial
spaces

30 m²



Commercial spaces
30 m²



76

Low income housing
+ commercial spaces

76

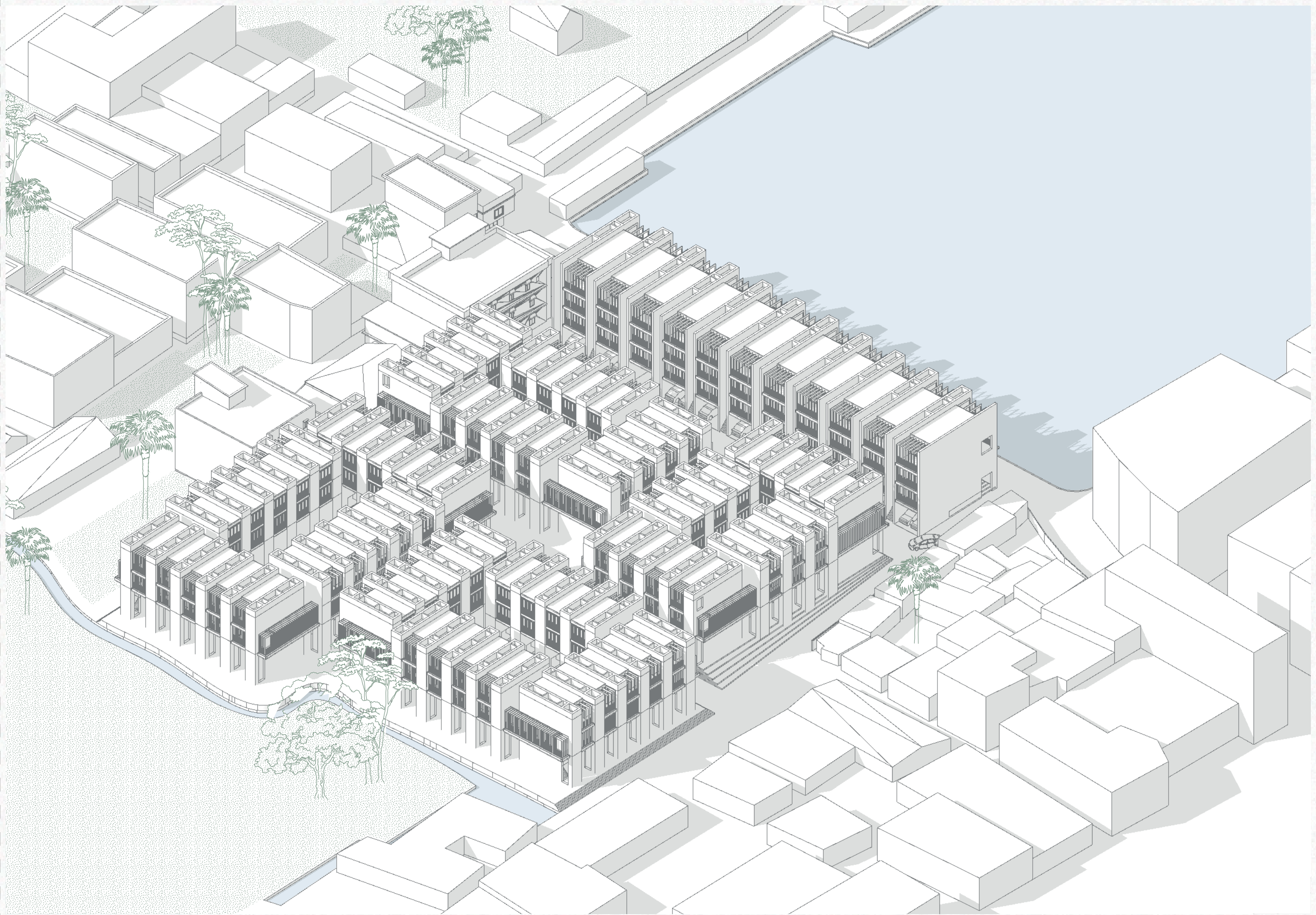
Middle income housing

22

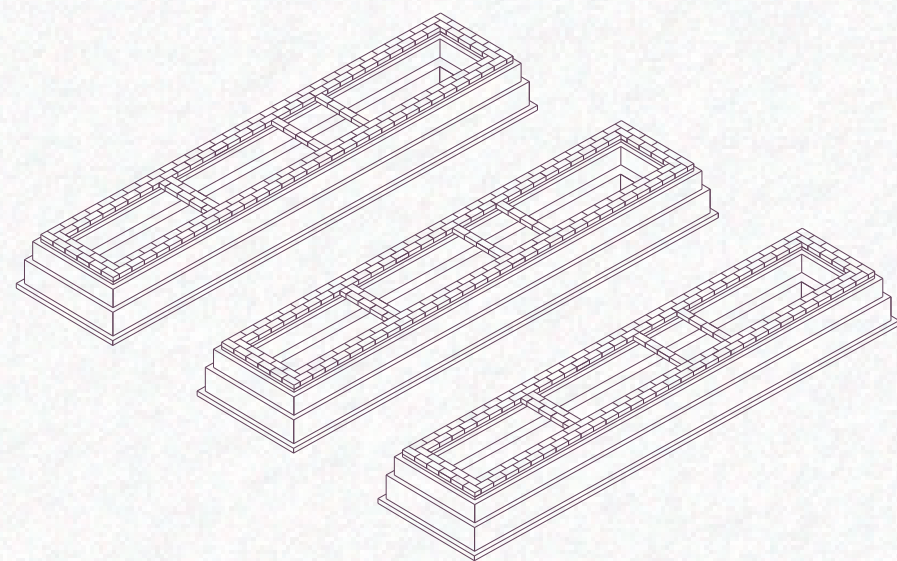
High income housing

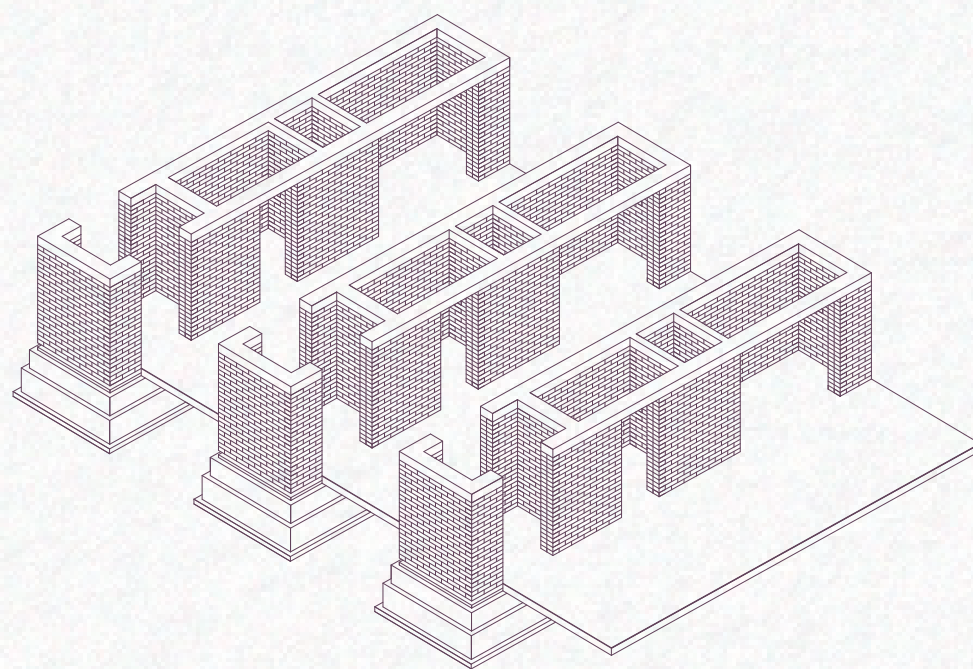
10

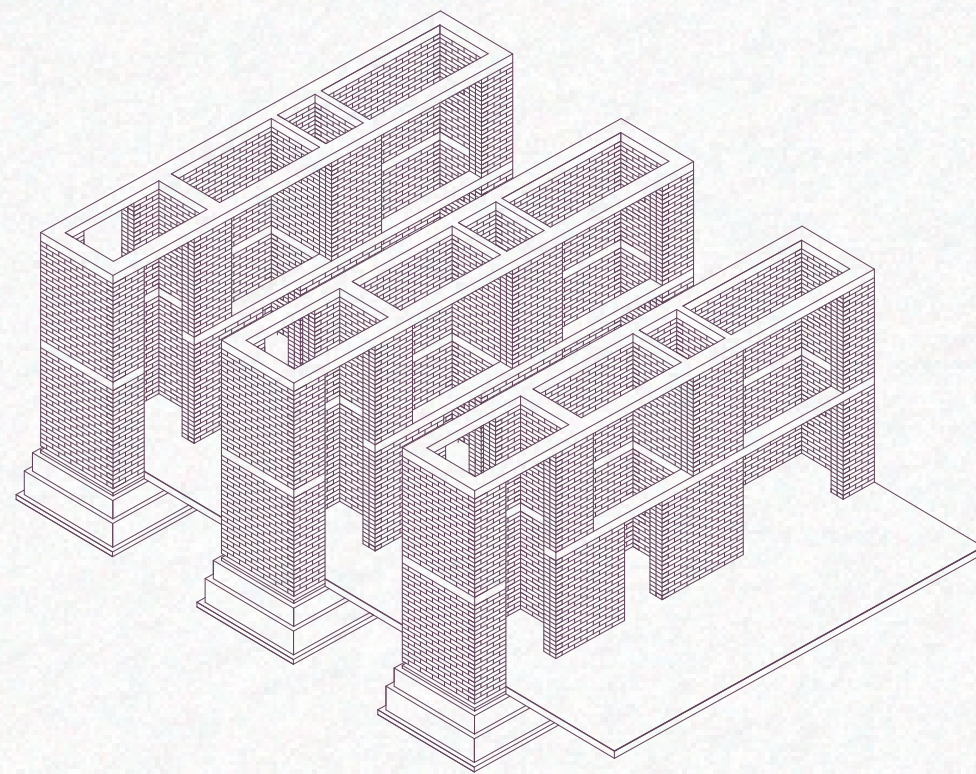
Commercial spaces

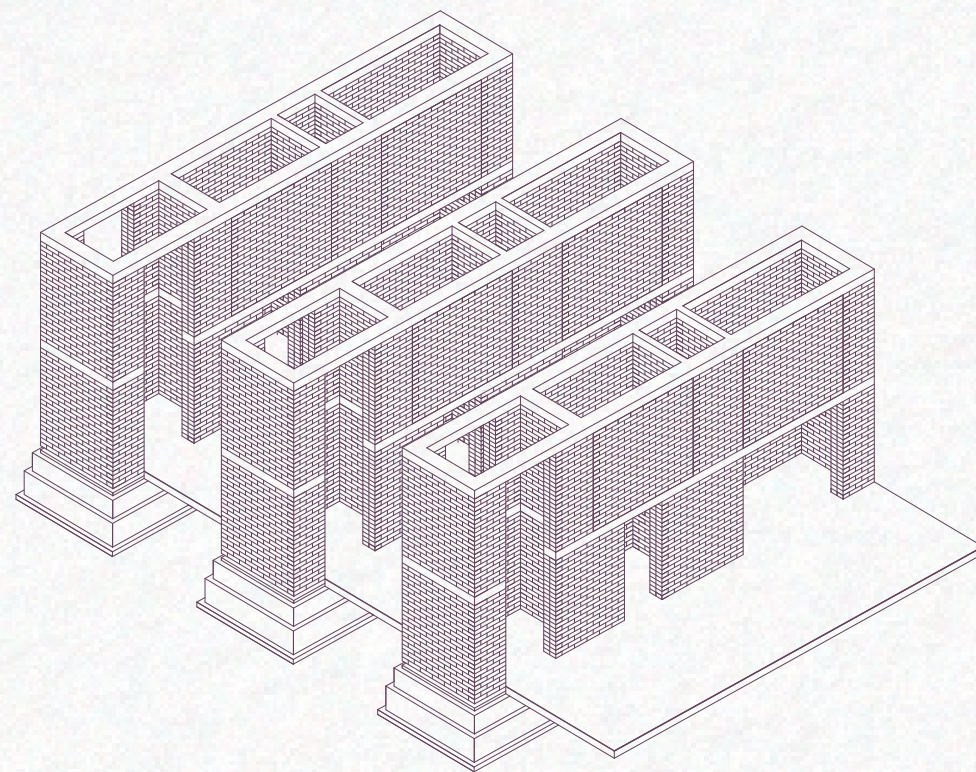


IV. Building technology

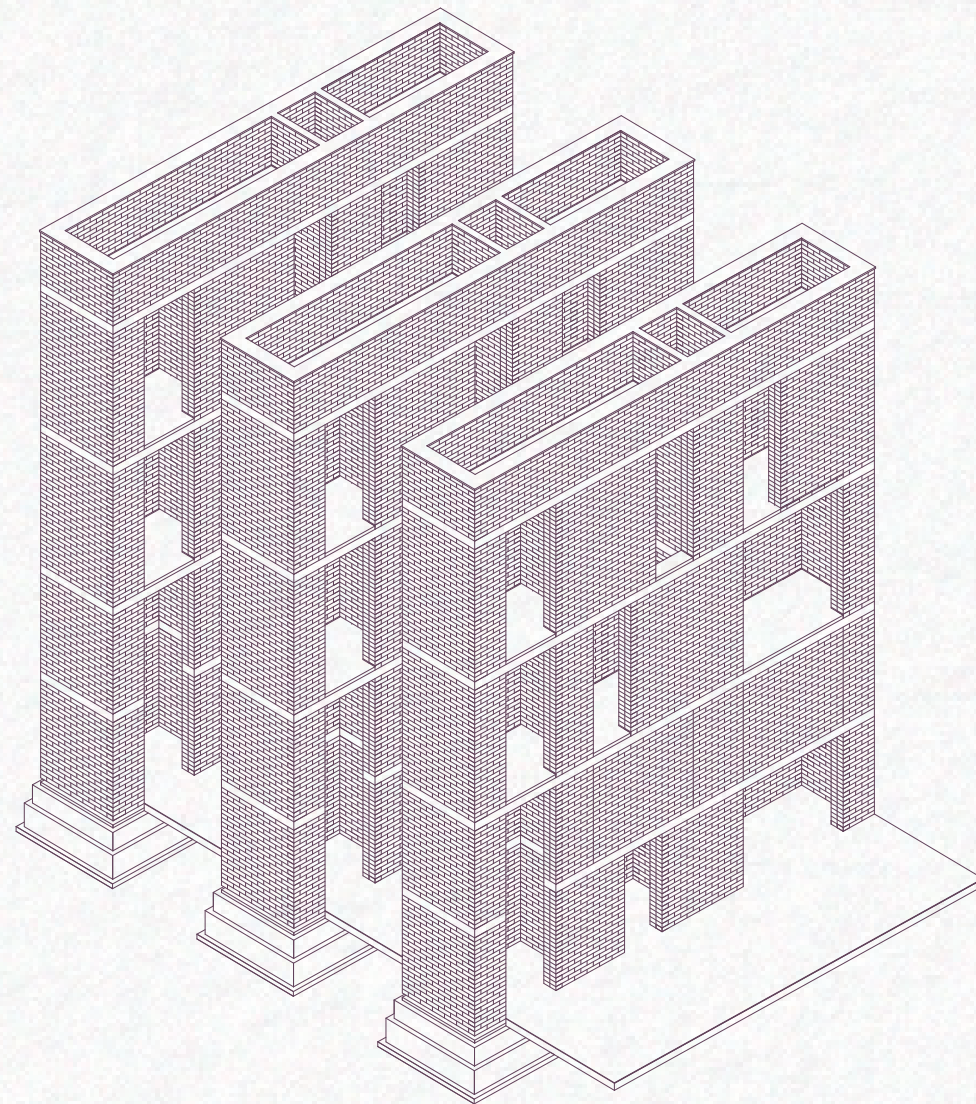


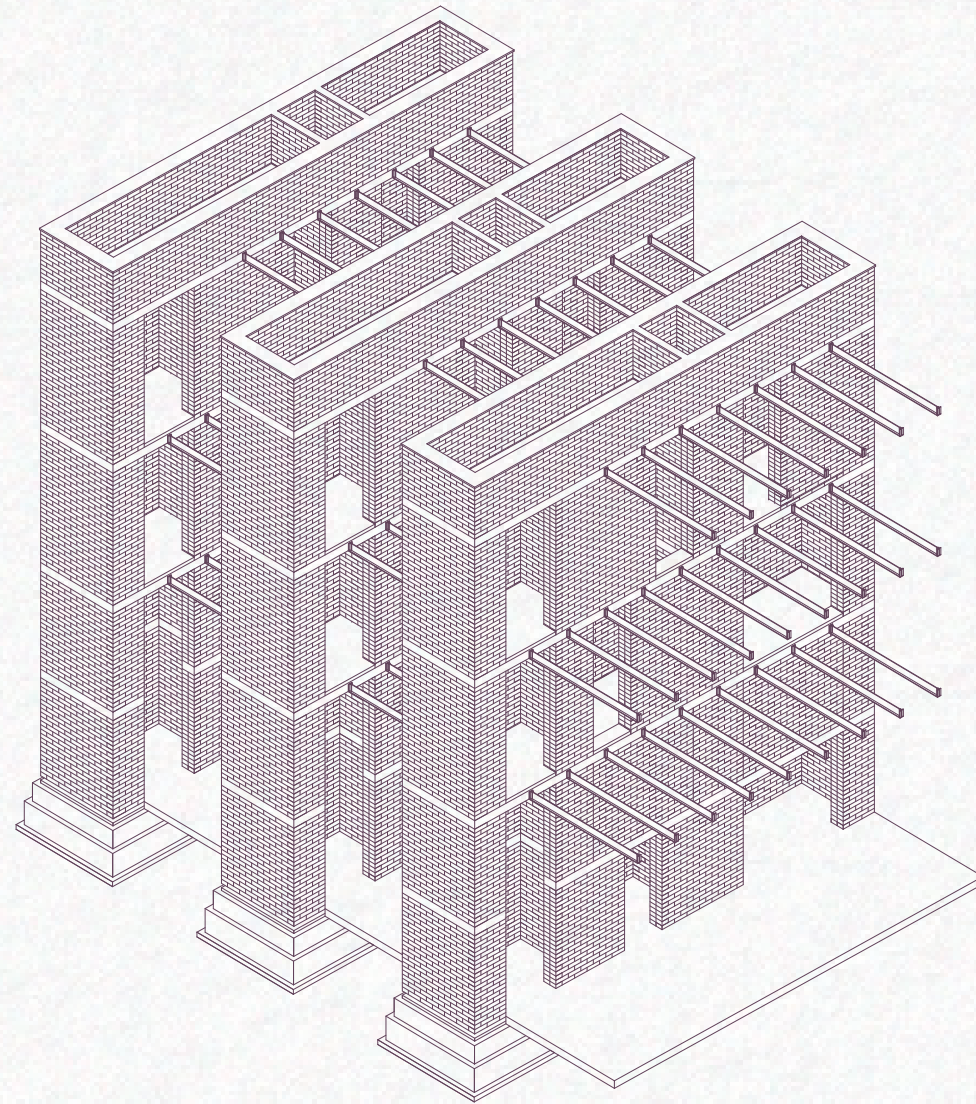


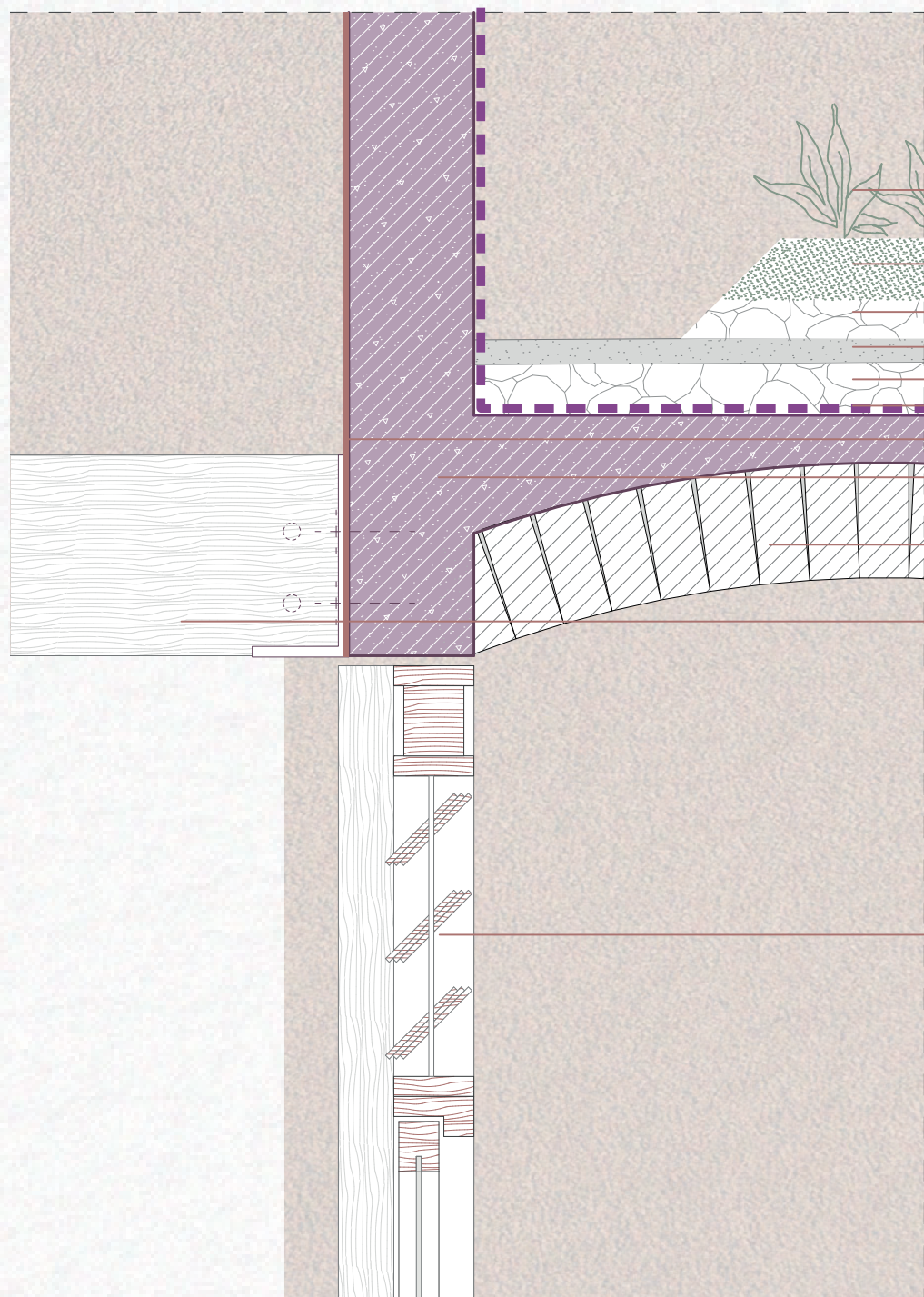












Green roof

Soil

Drainage

THK screeding 25 mm with slope

50 mm deep light weight brick filling

Waterproofing

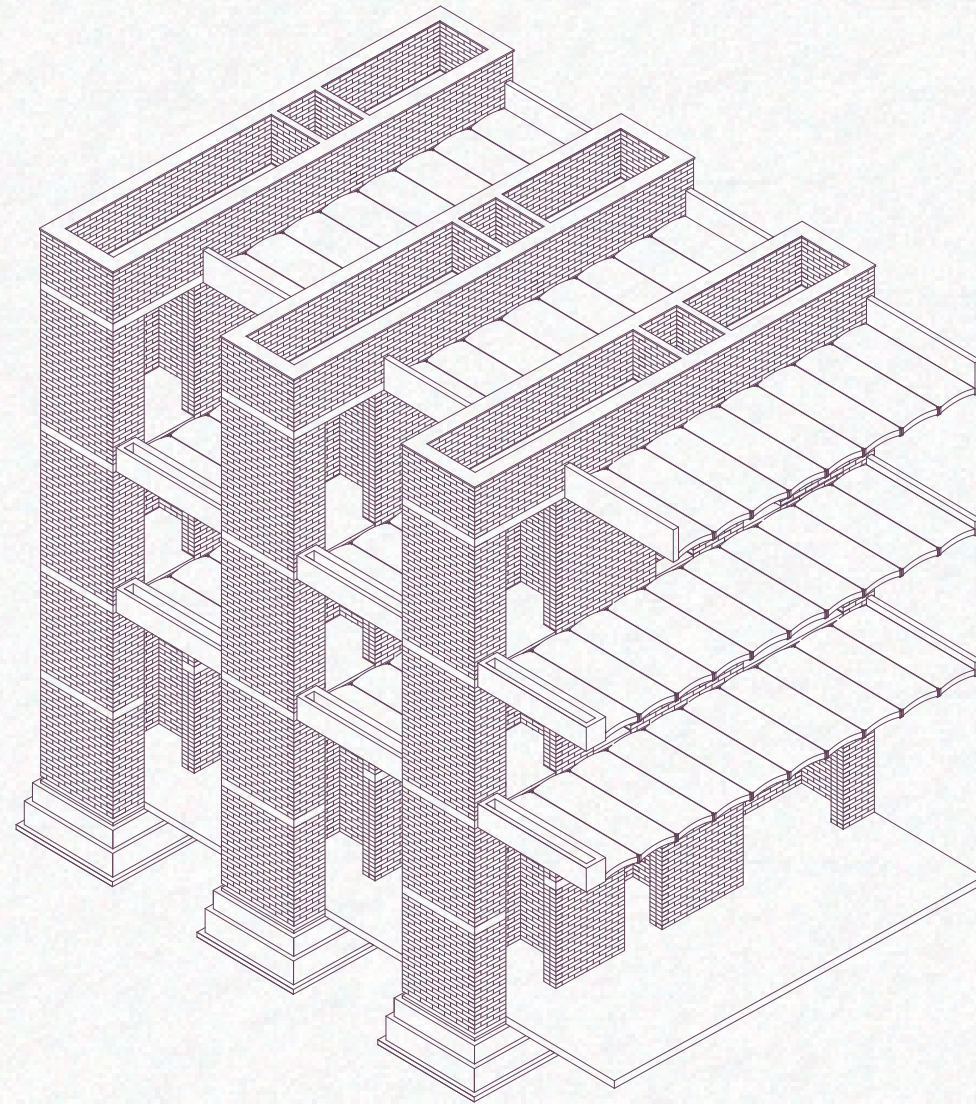
Cement plaster red – brown

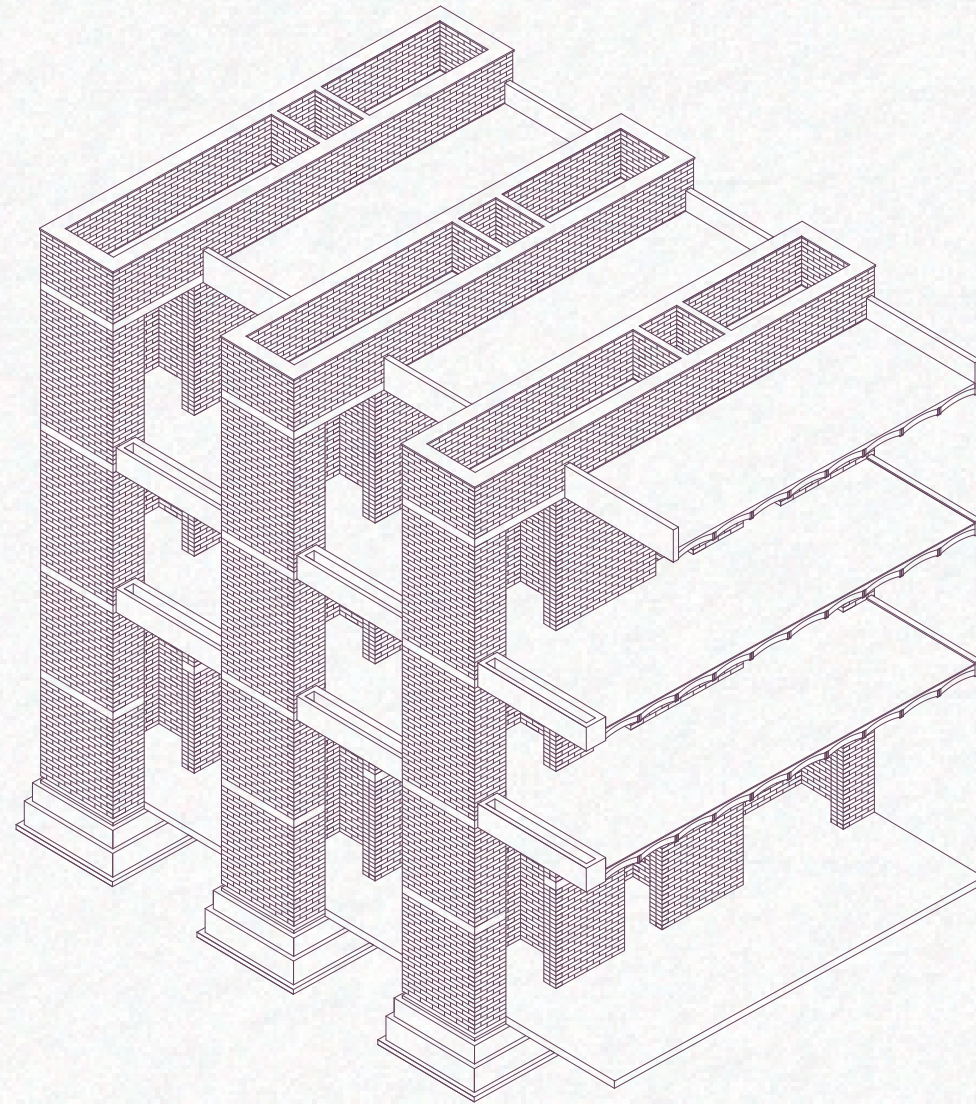
RCC Concrete

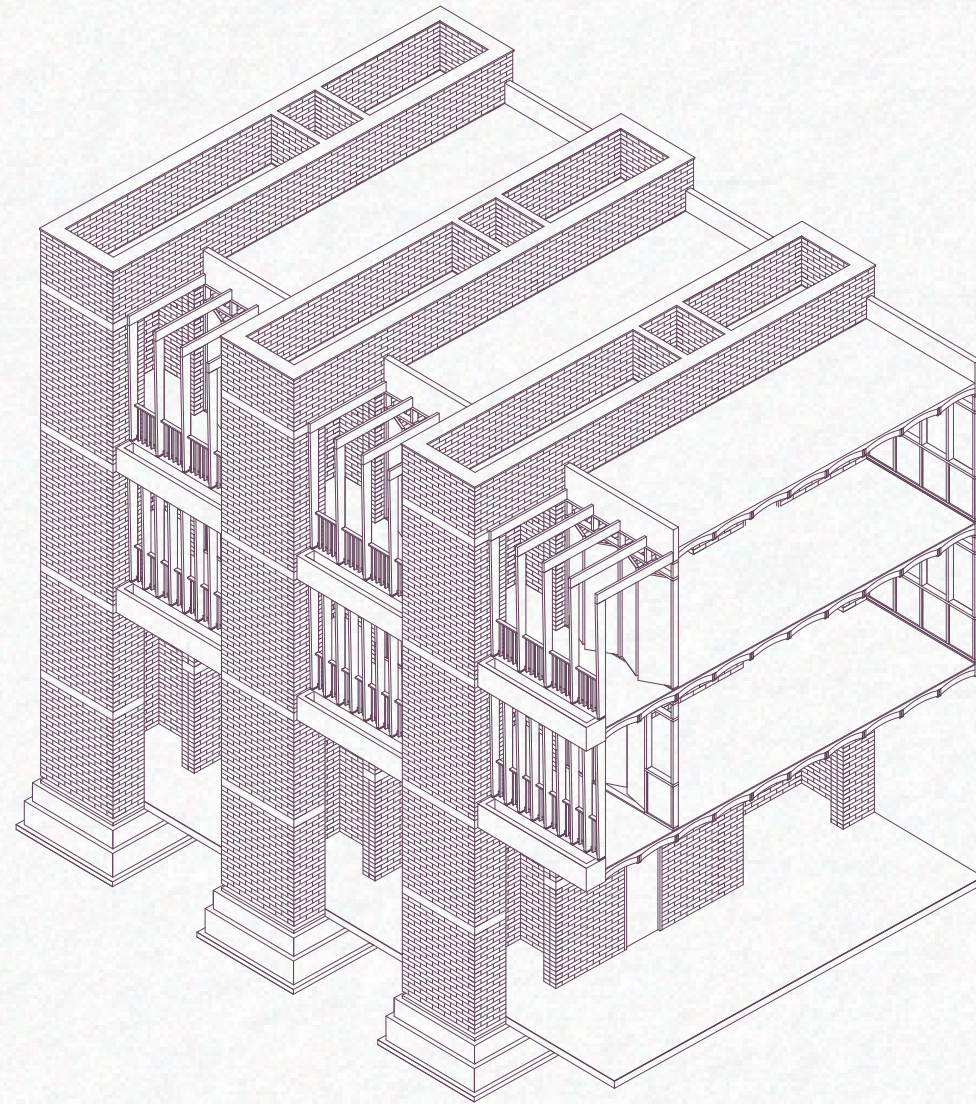
Jack Arch CSEB

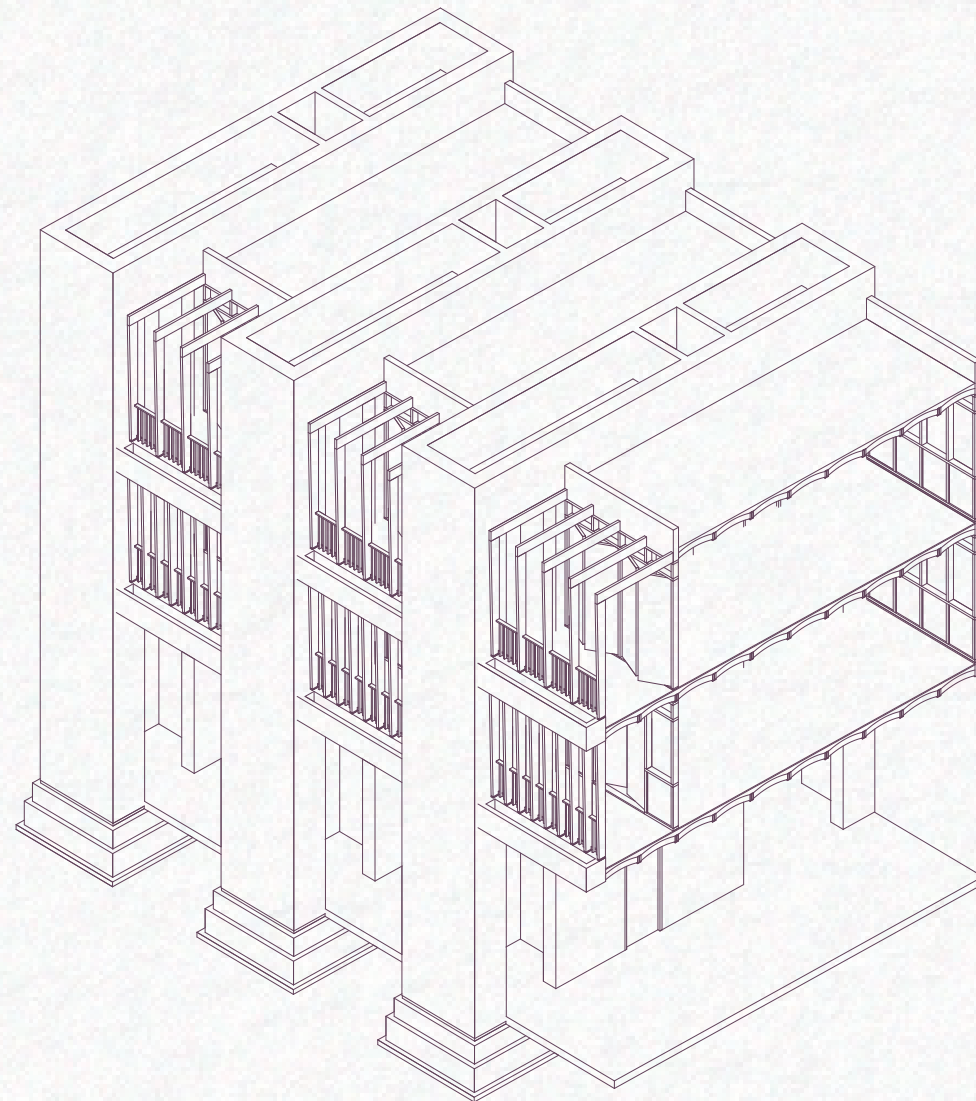
Mango wood beam

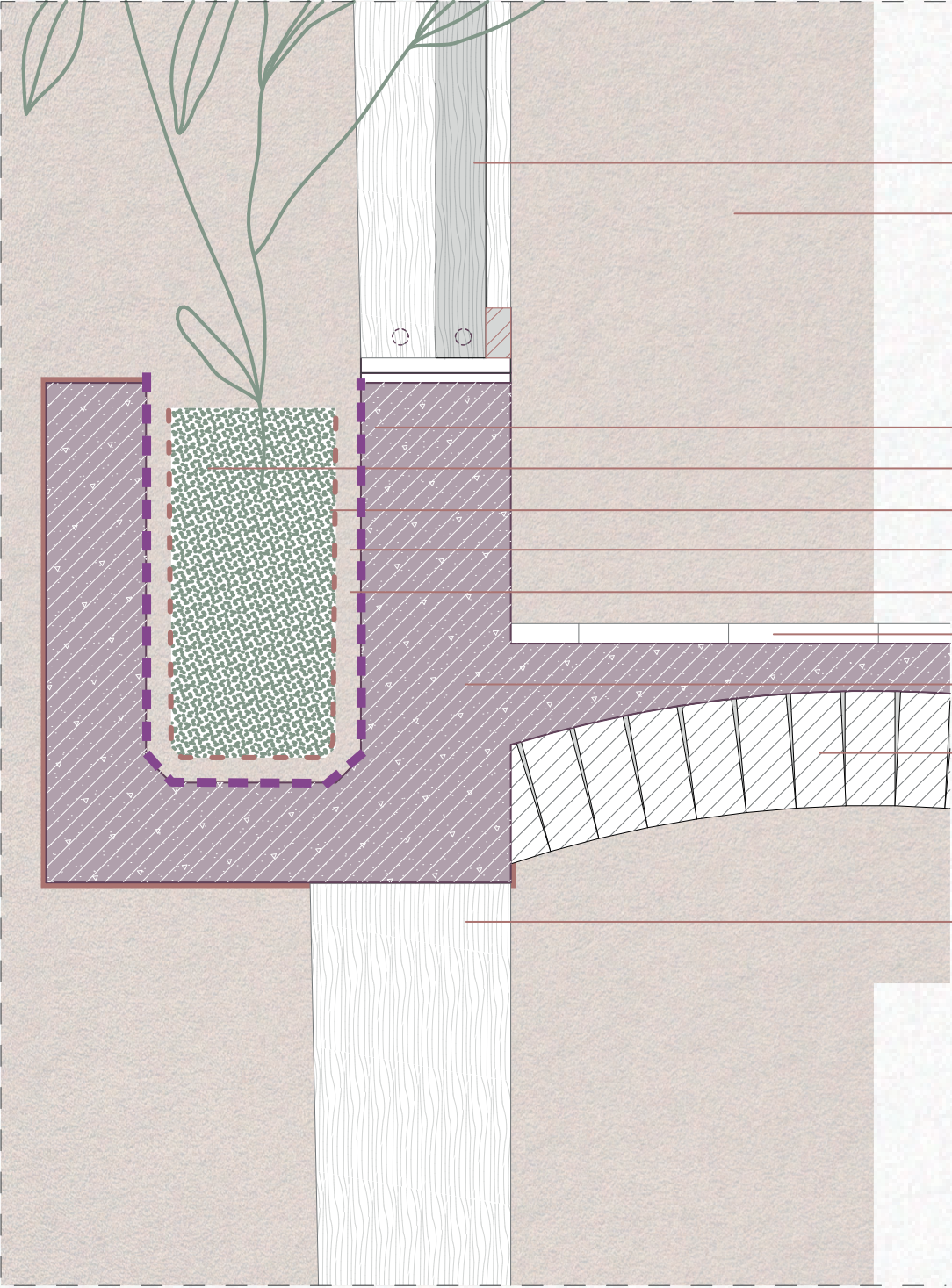
Mango wood facade
Shutters for ventilation











Mango wood railing

Cement plaster red – brown

Cement plaster red – brown

Soil

Geotextile filter

Drainage layer

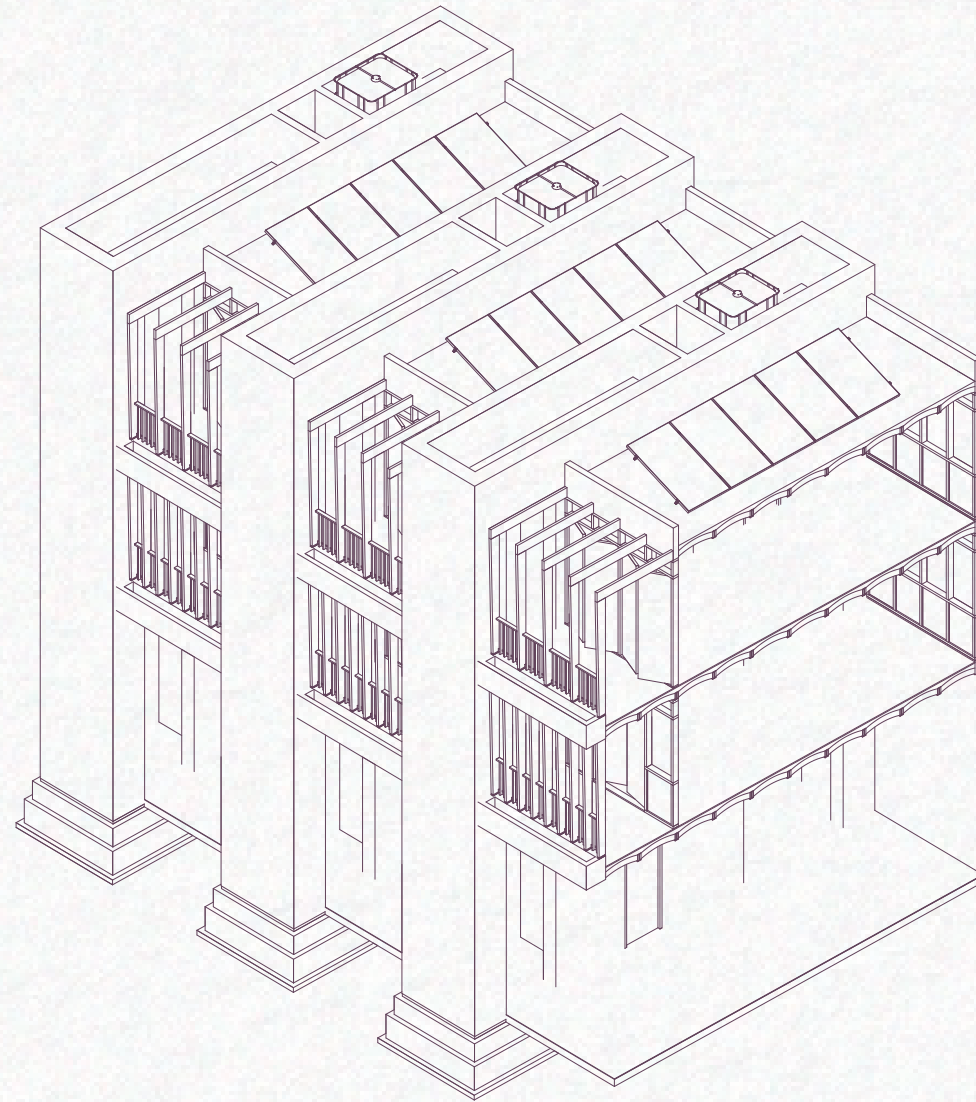
Waterproofing

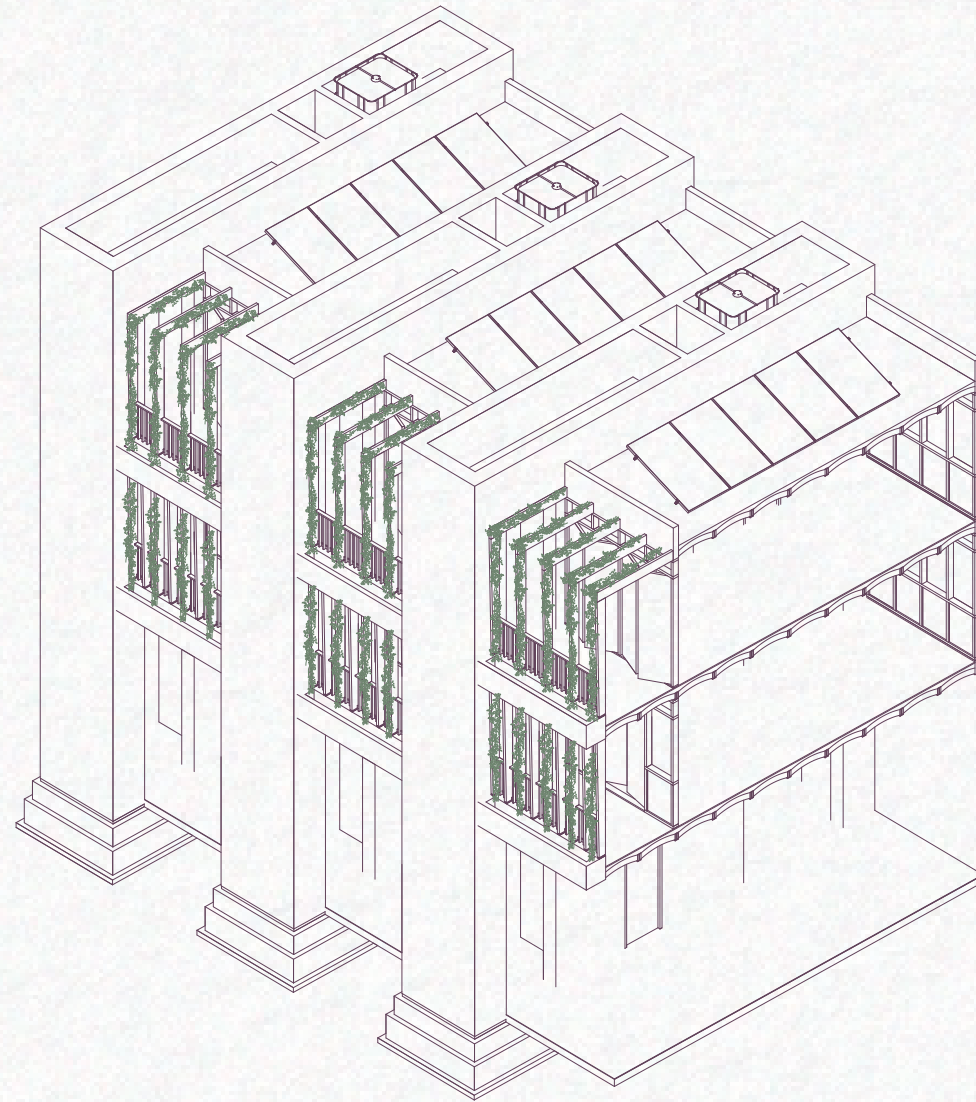
CSEB tiles

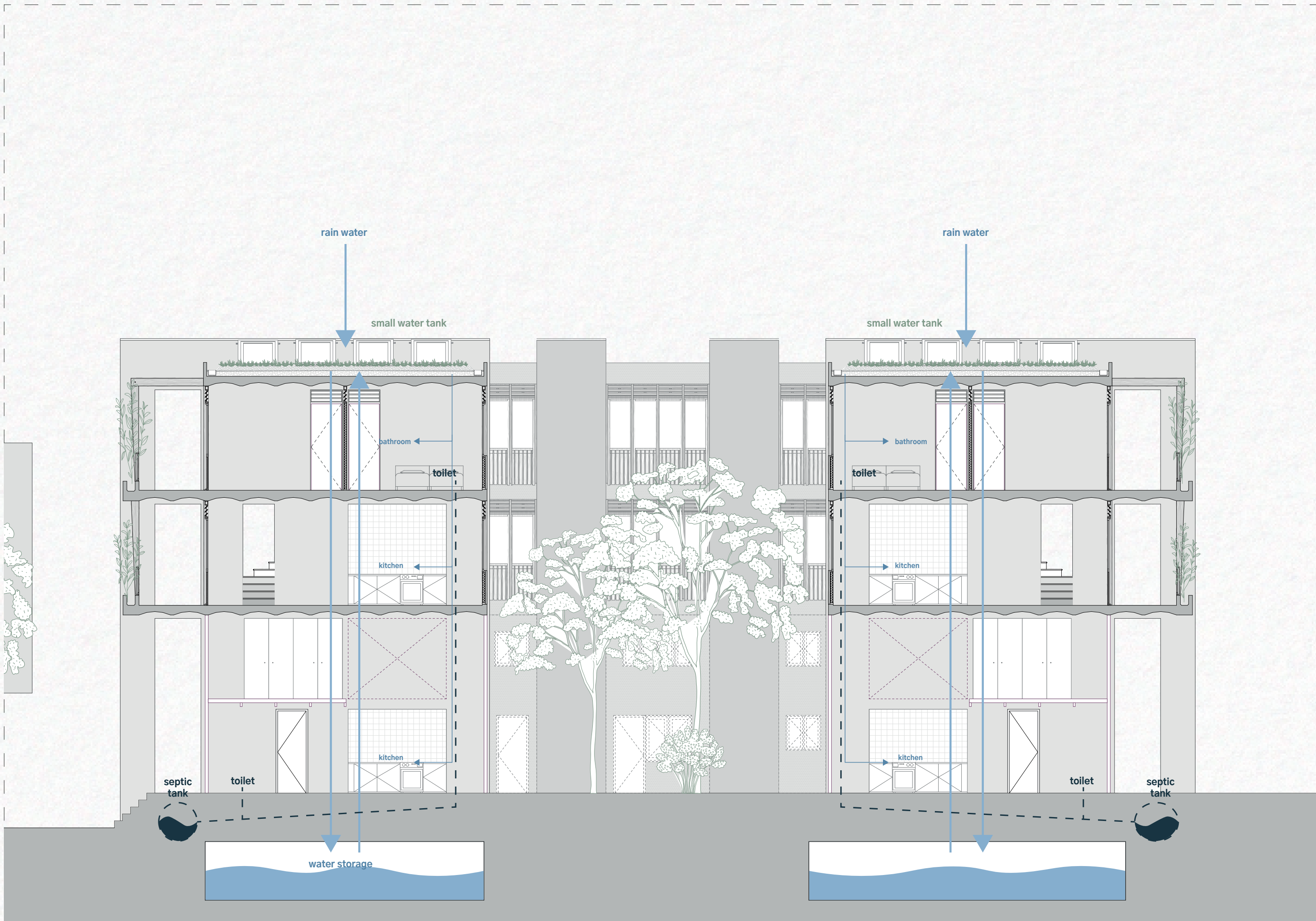
RCC Concrete

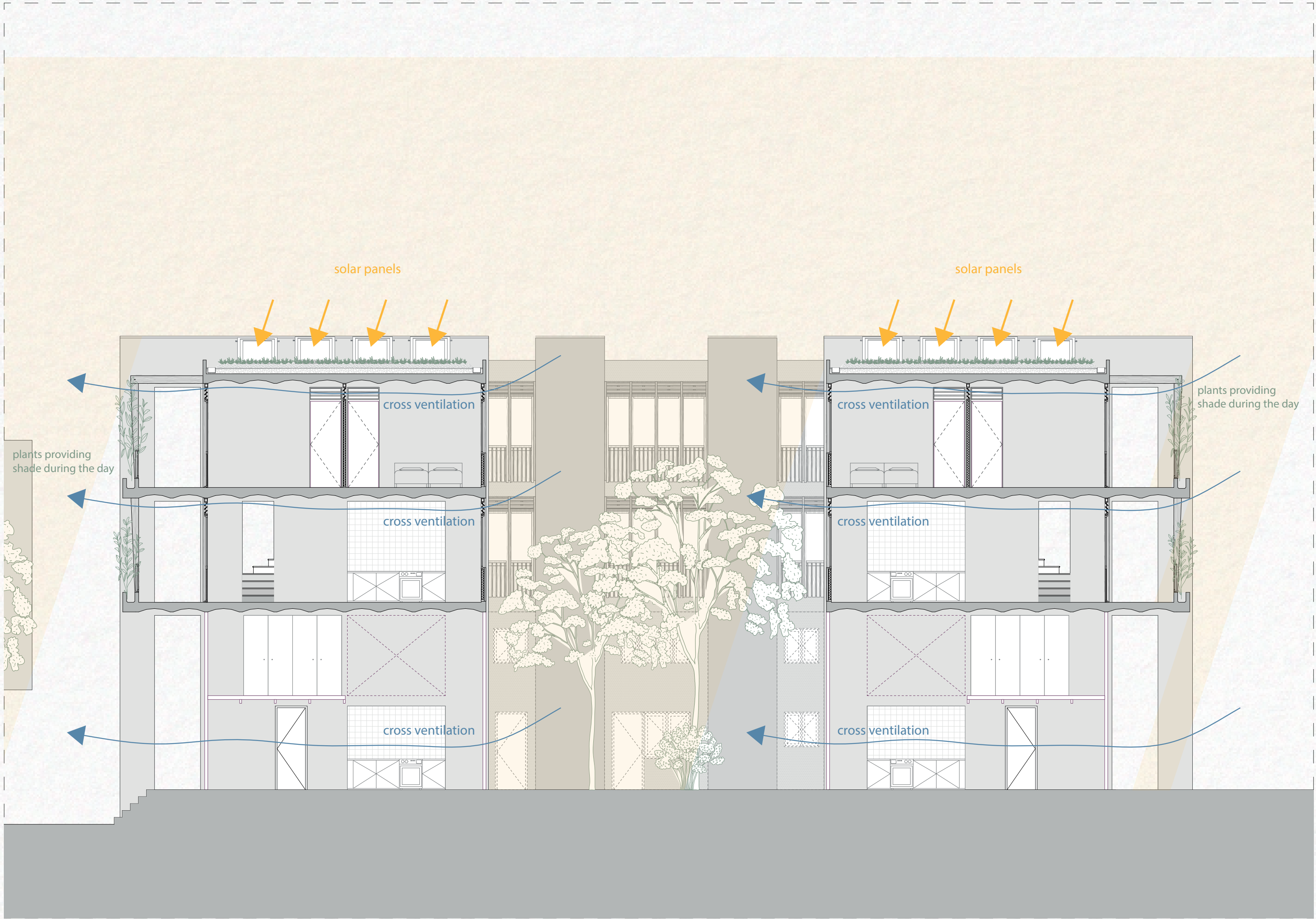
Jack Arch CSEB

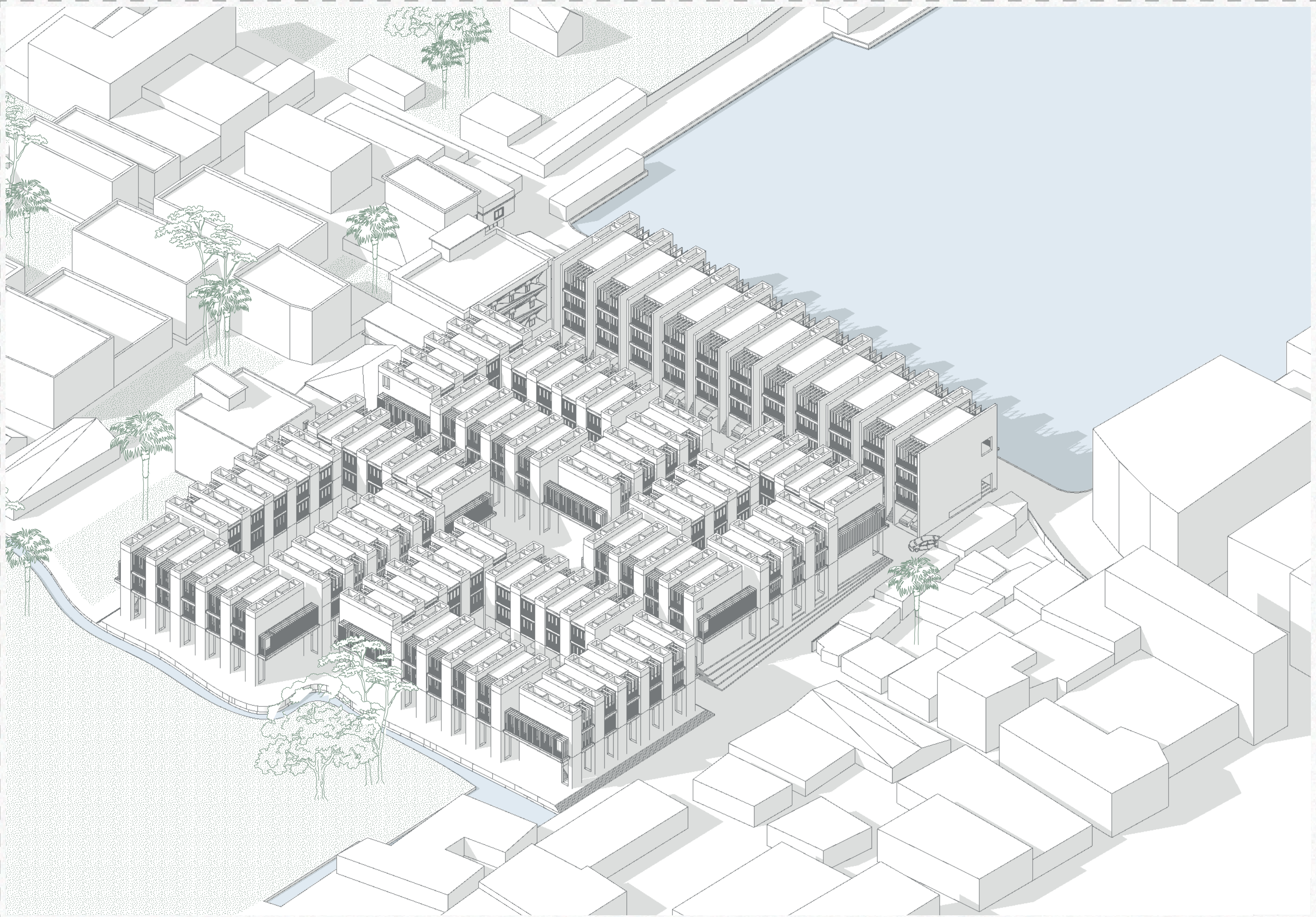
Mango wood facade











“ I raise my voice not so I can shout, but so that those without a voice can be heard. We cannot succeed when half of us are held back.”

Malala Yousafzai





Thank you!