

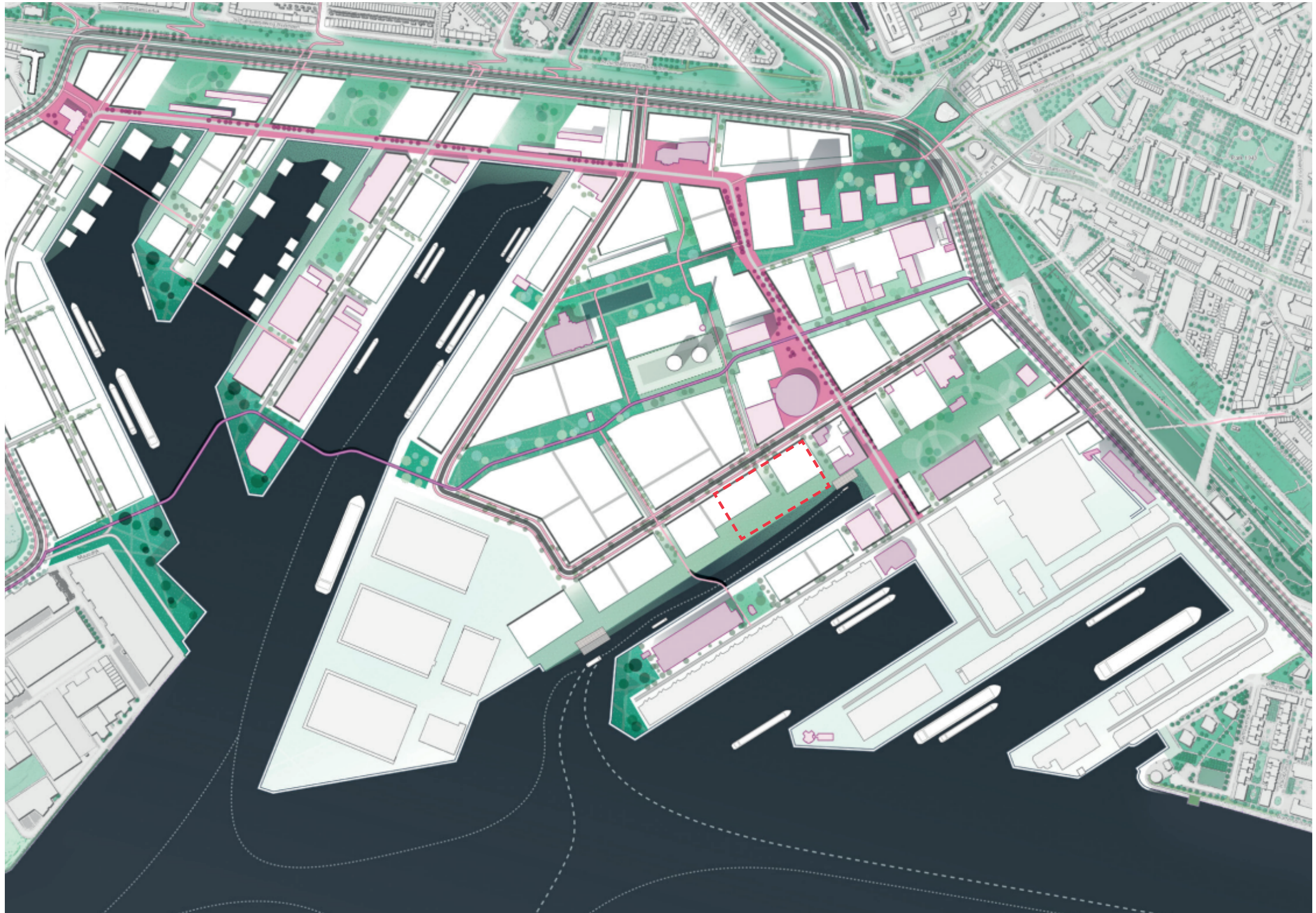
LIVING APART, GROWING OLD TOGETHER

CREATING A SOCIALLY ROBUST LANDSCAPE

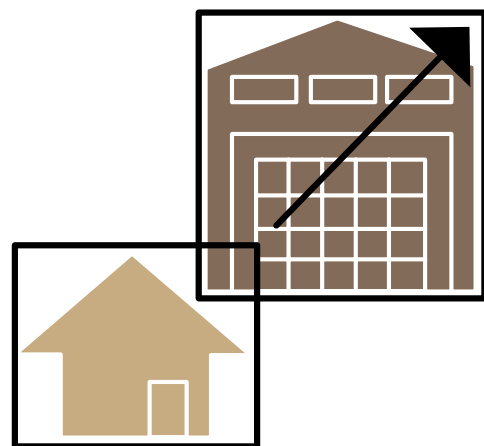
P5 presentation
AR3A100 Advanced Housing Design
Ramon Poot
Mentors: Olv Klijn, Ruurd Kuijlenburg & Anne Kockelkorn

LOCATION

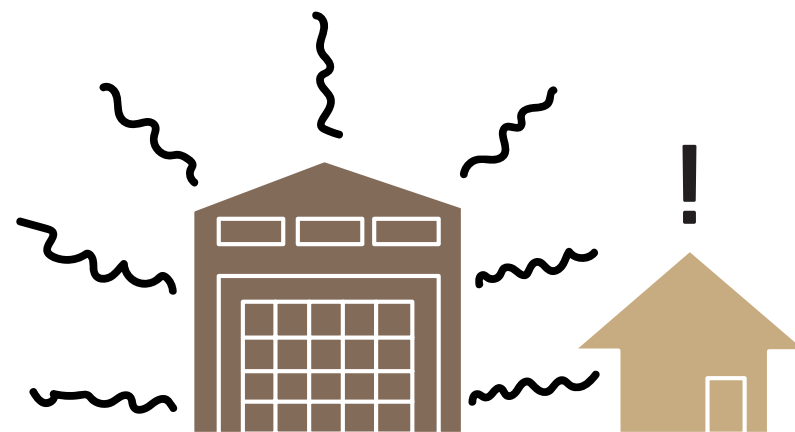
SITE



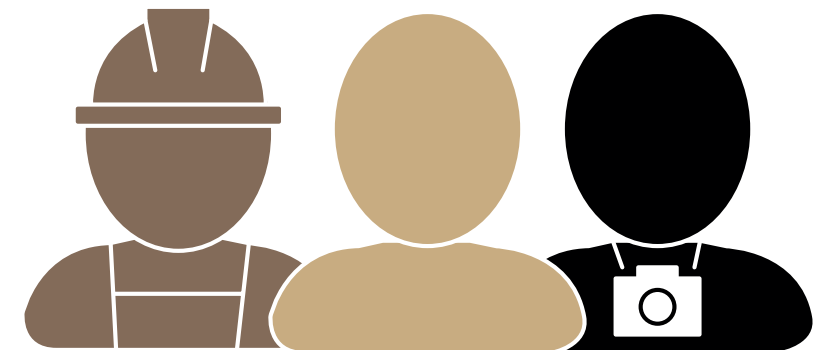
OPPERTUNITIES & CHALLENGES



1. Different scales of housing & industry



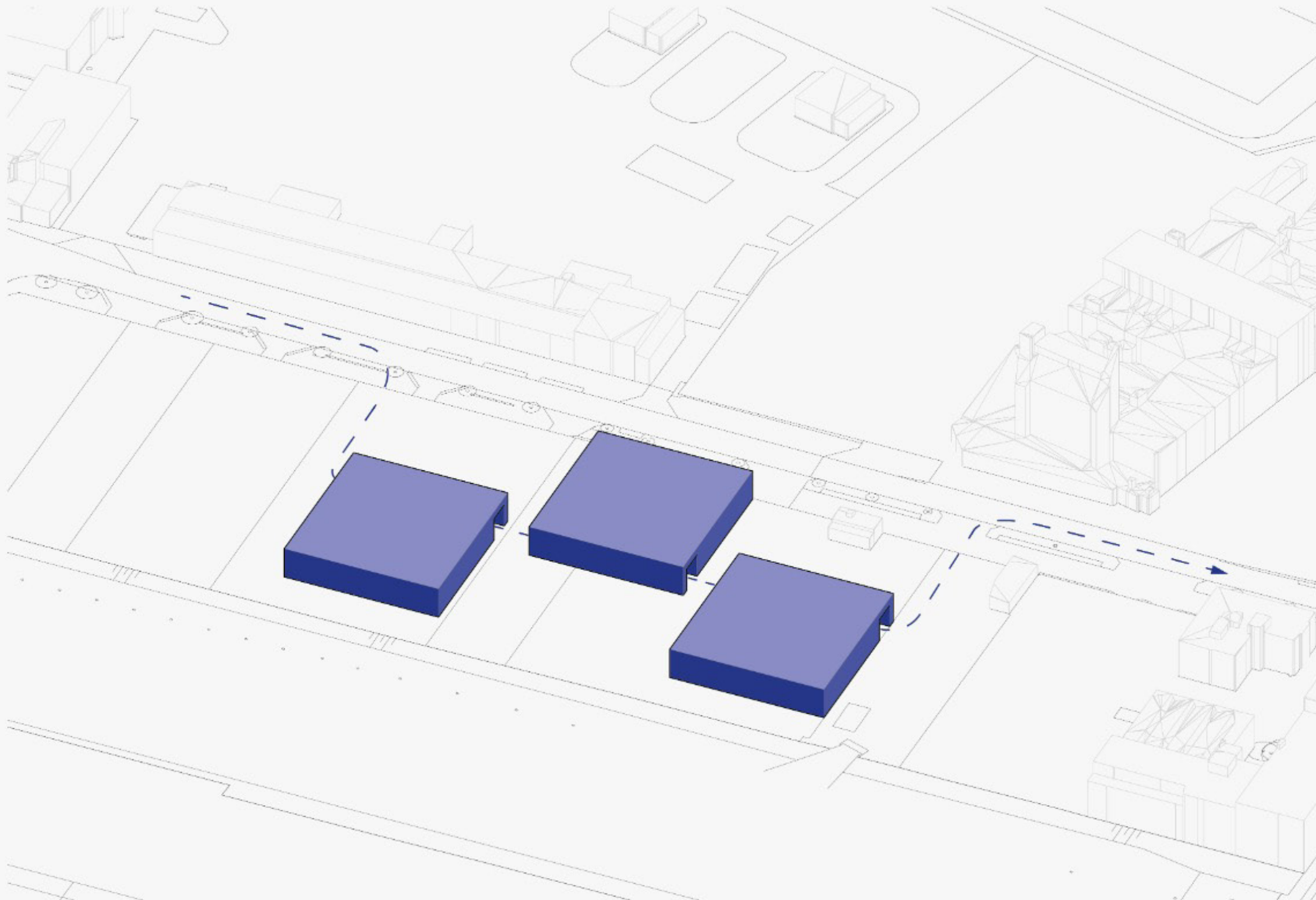
2. Nuisance between housing & industry



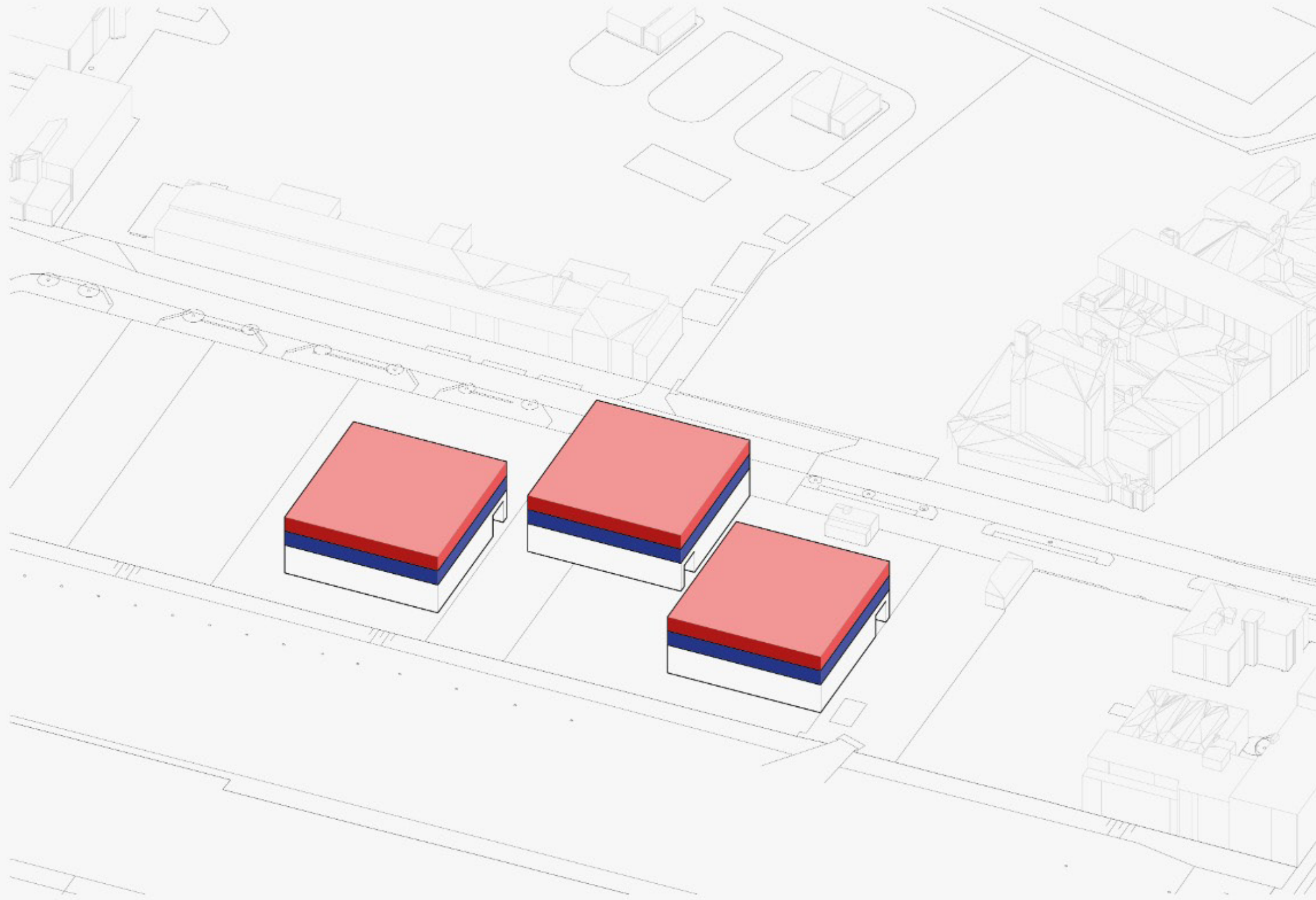
3. Cohesion between workers, residents and visitors

MASTERPLAN

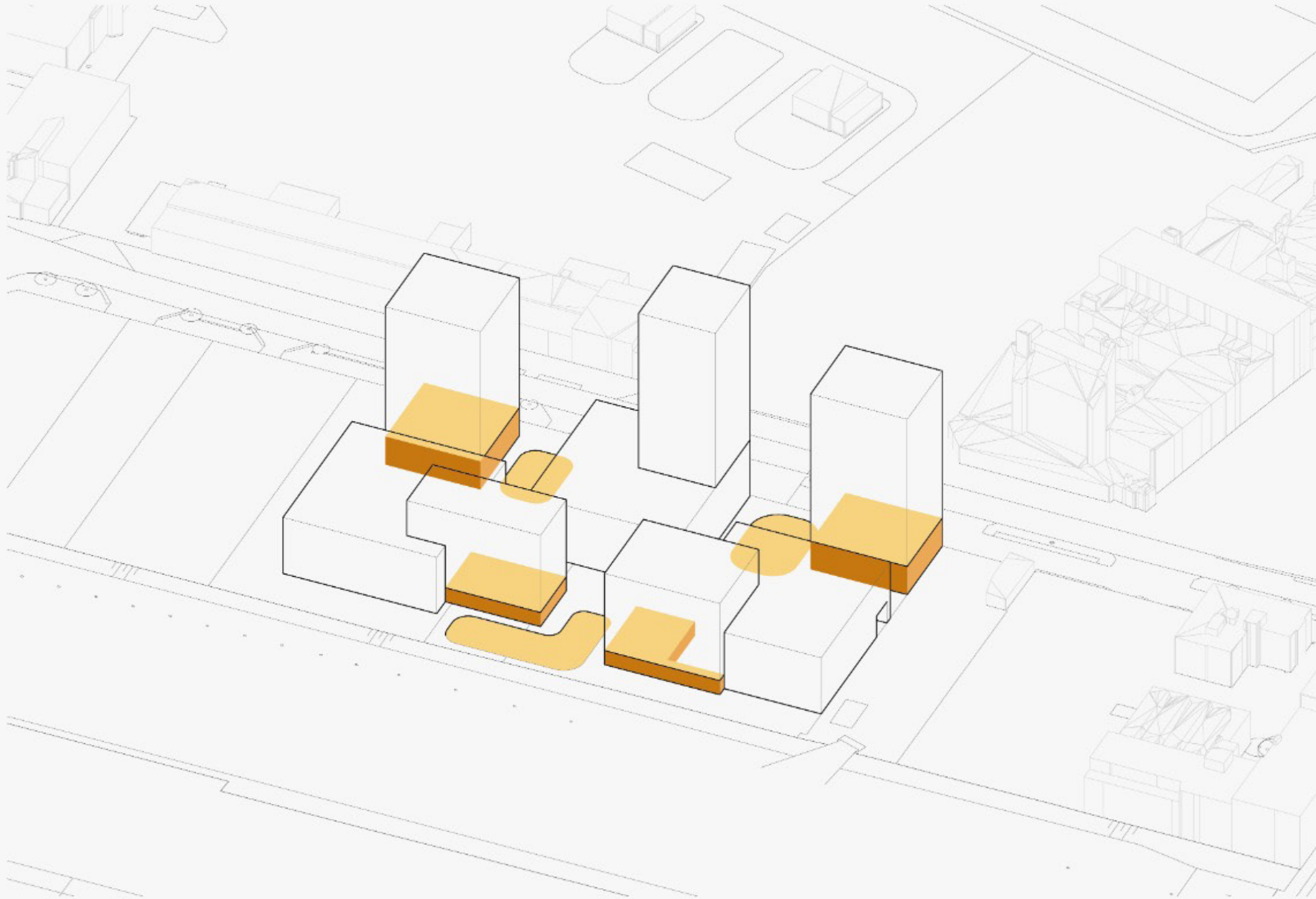
STEP 1: BACKBONE



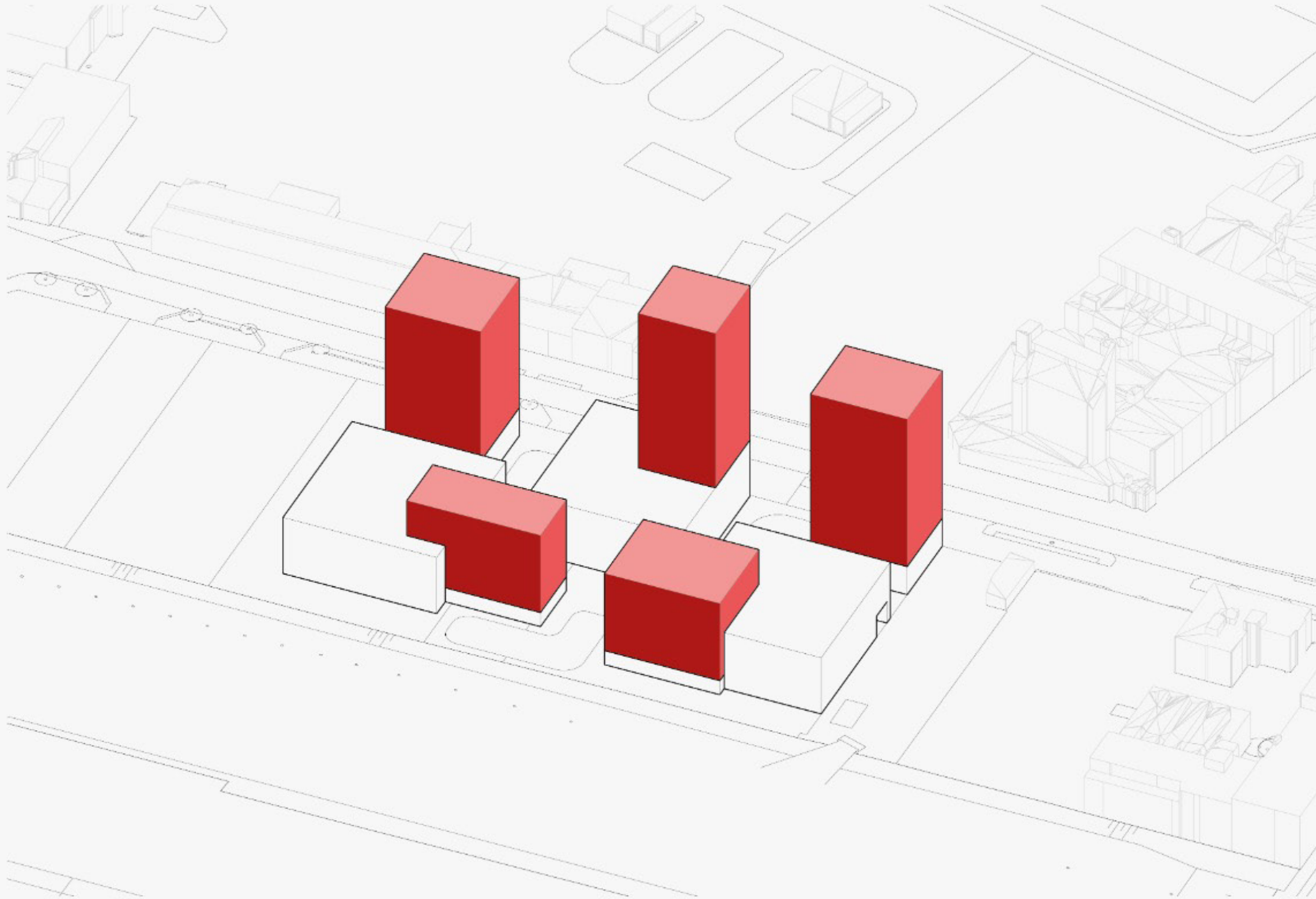
STEP 2: STACKING



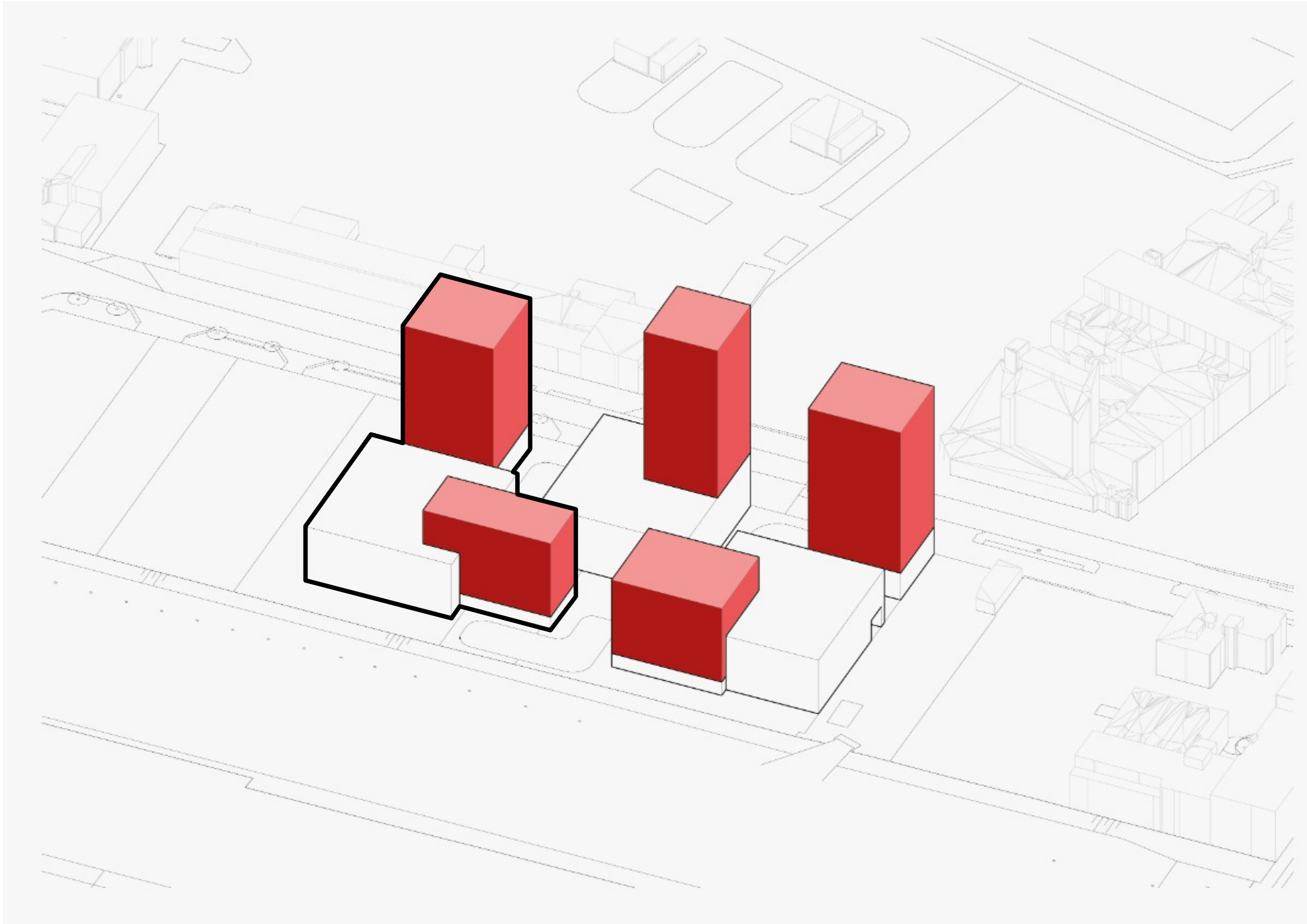
STEP 3: CHESSBOARD PATTERN



STEP 4: TOWERS



MY AREA



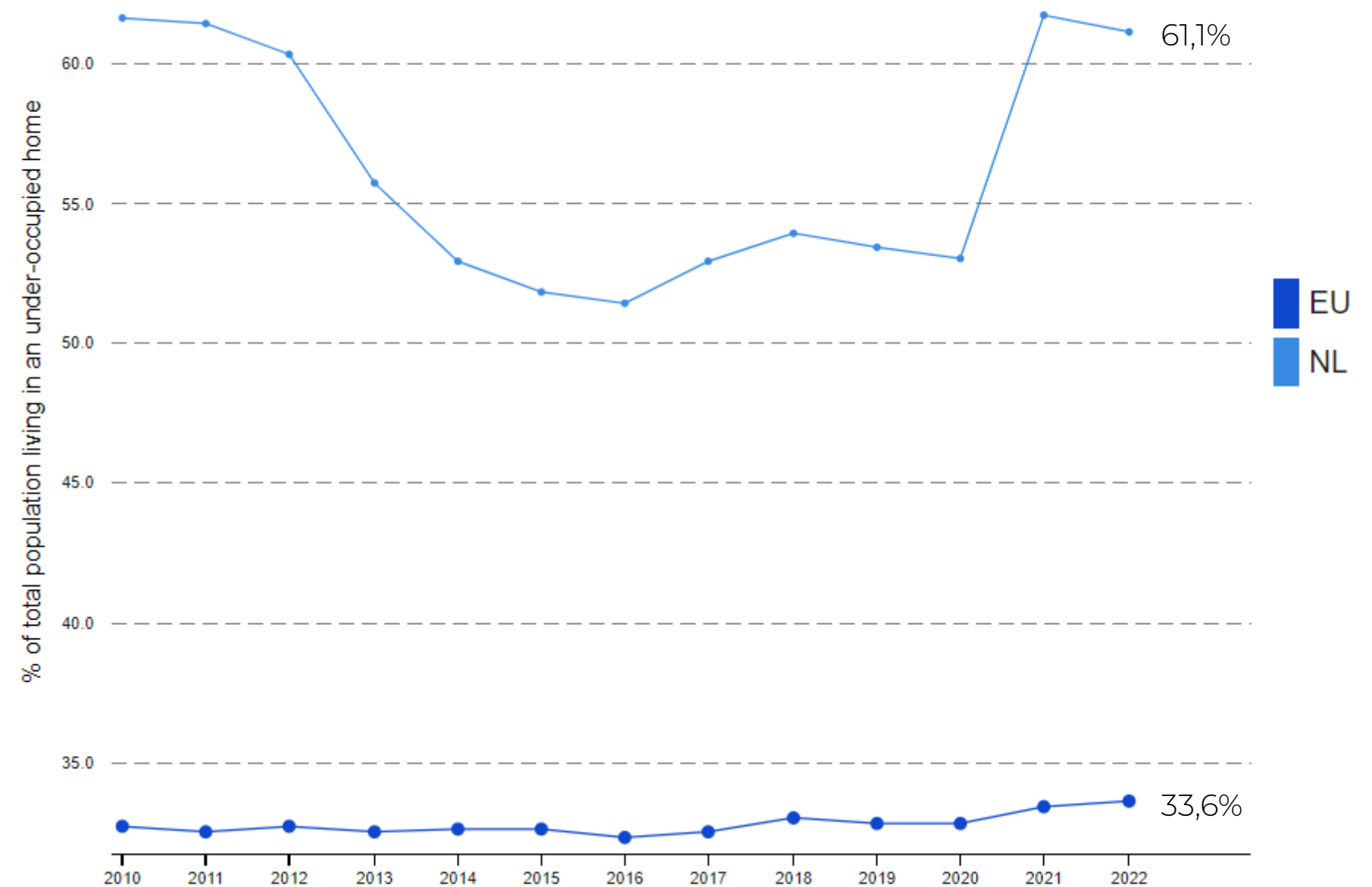
RESEARCH

PROBLEM STATEMENT

Under-occupied homes

- Rise of solo dwellers
- Low household sizes
- Large dwelling sizes

Share of people living in under-occupied homes
(as % of the total population)



PROBLEM STATEMENT

Age segregation

Causes

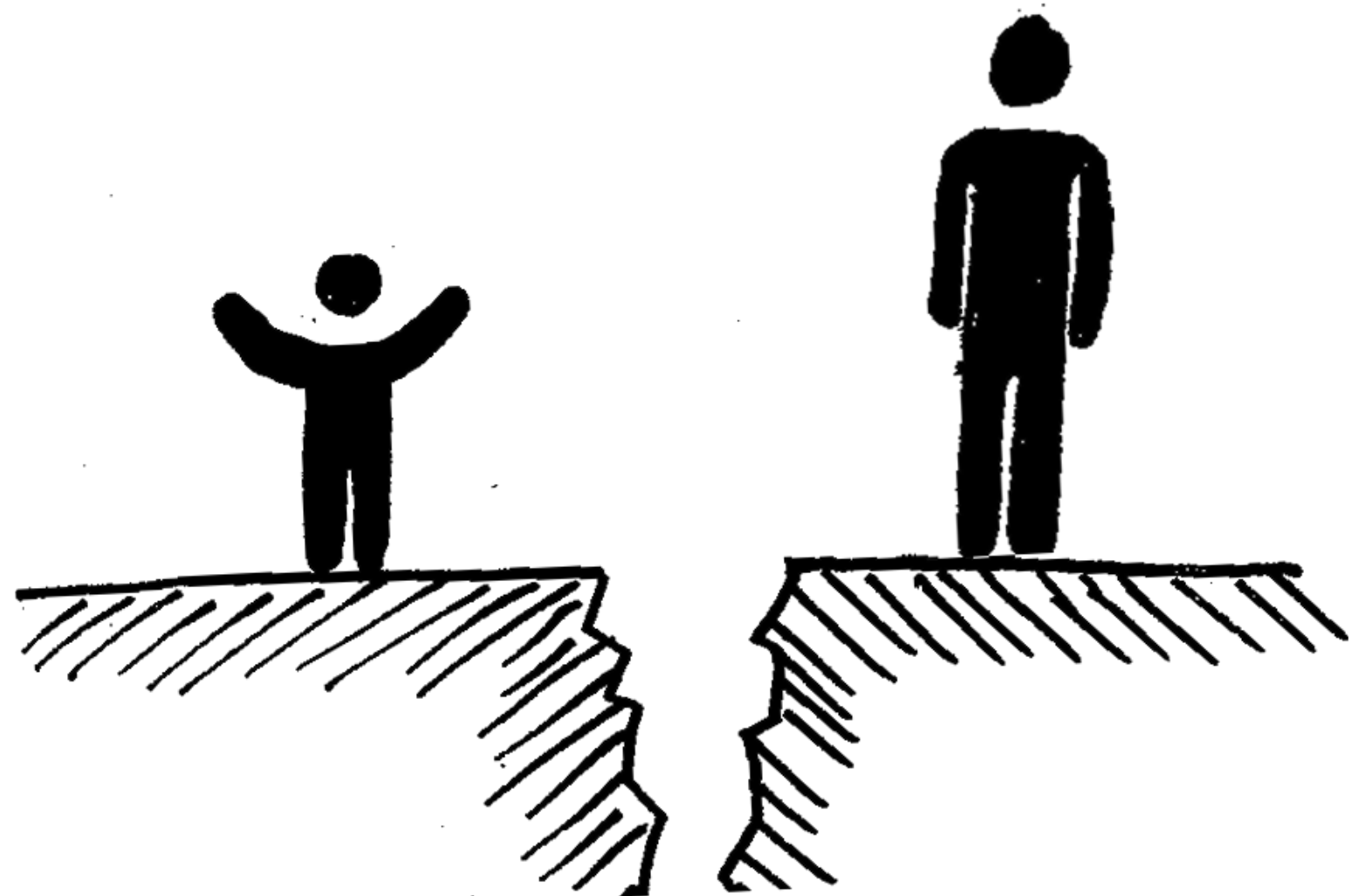
- Rise of solo dwellers
- Increase importance privacy
- => Shift responsibility elderly

Problems

- Life in 3 boxes
- Stereotypes & prejudices
- Restricts productivity elderly

Change

- Elderly living at home longer



PROBLEM STATEMENT

Loneliness

- Rise of solo dwellers
- Physically more fragile
- Smaller social network
- Longevity

RESEARCH QUESTION

“How can communal living between different age groups, help to fight loneliness under the elderly and create a socially robust landscape?”

CASE STUDIES

VINDMØLLEBAKKEN

General info

Coliving

Location: Stavanger, Norway

Architects: Helen & Hard

Year: 2019



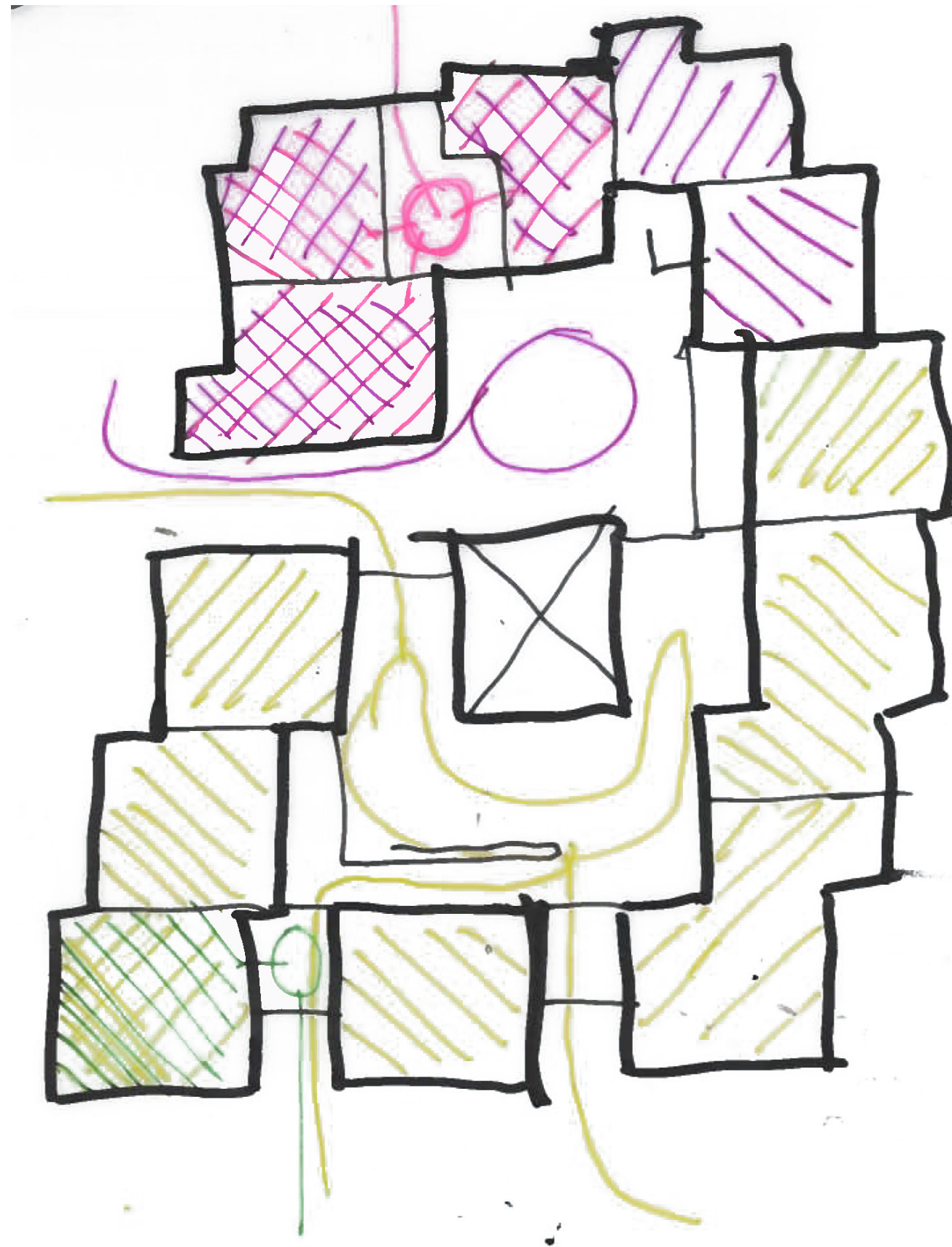
VINDMØLLEBAKKEN

Access



VINDMØLLEBAKKEN

Courtyards



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CASE STUDIES

Shared facilities



ZWEI+PLUS

General info

Intergenerational housing

Location: Wien, Austria

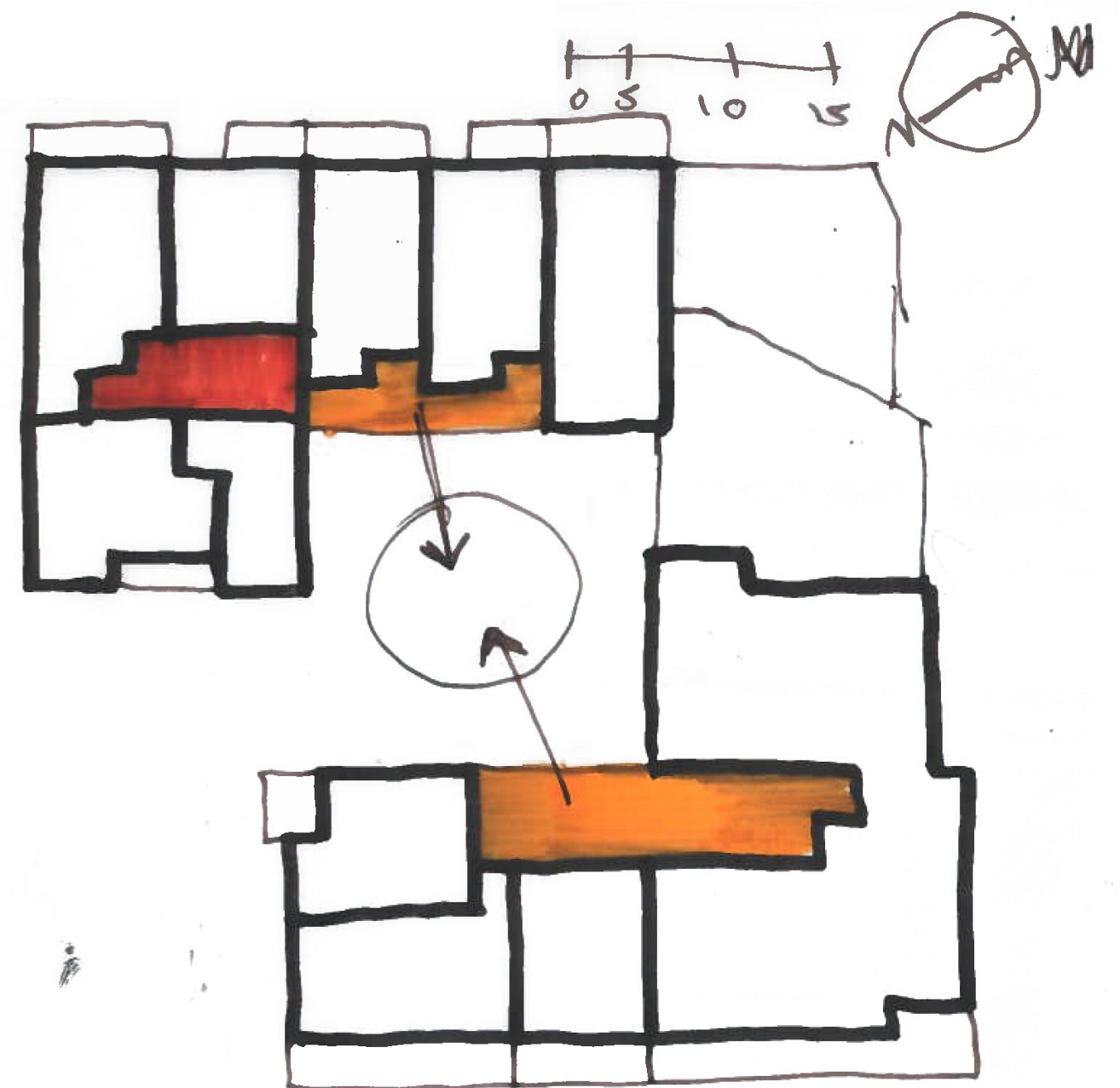
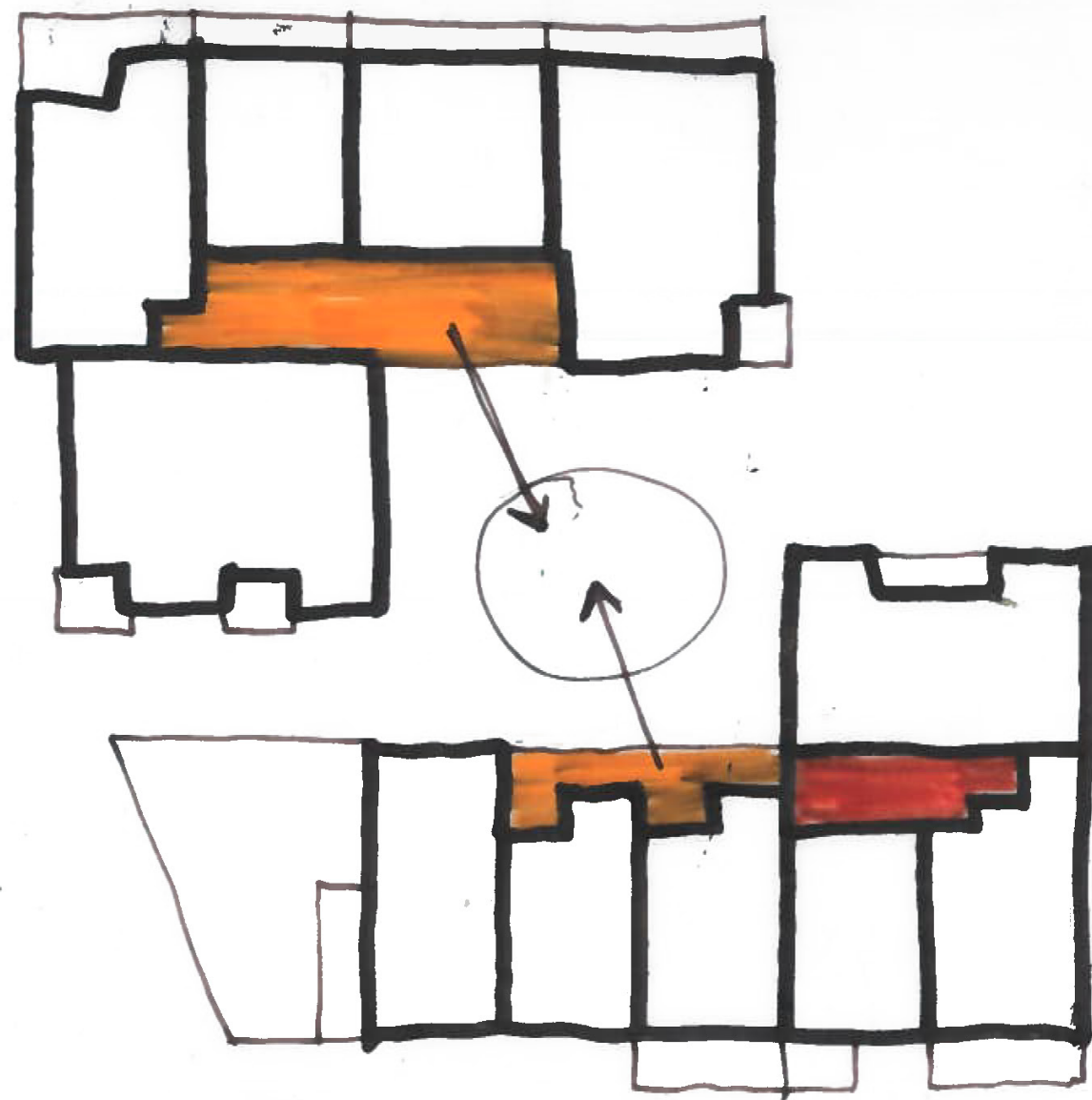
Architects: trans_city TC

Year: 2018



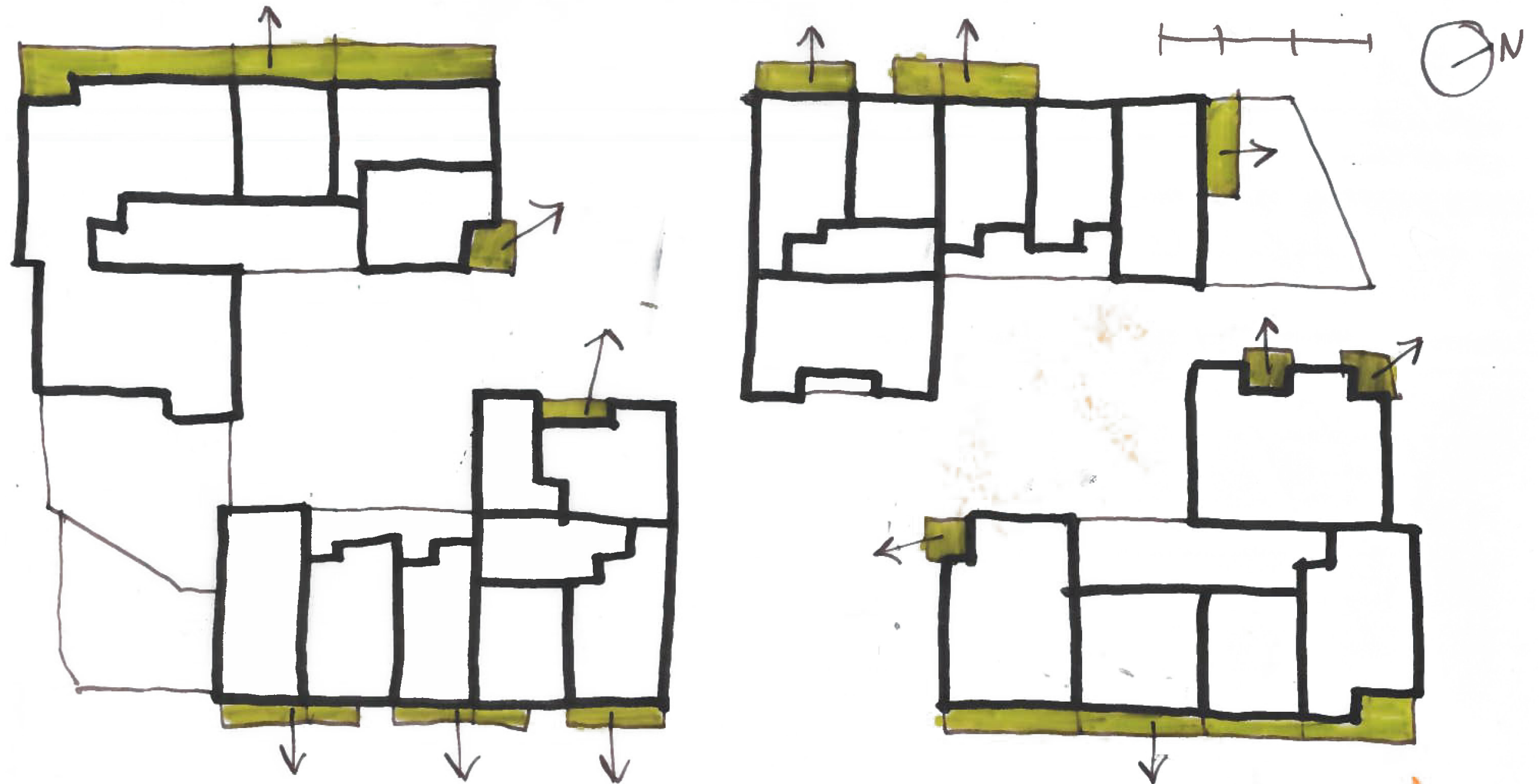
ZWEI+PLUS

Shared balconies



ZWEI+PLUS

Private balconies



ZWEI+PLUS

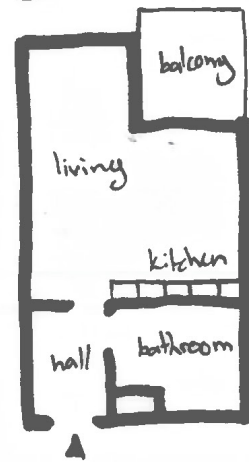
Dwelling types



ZWEI+PLUS

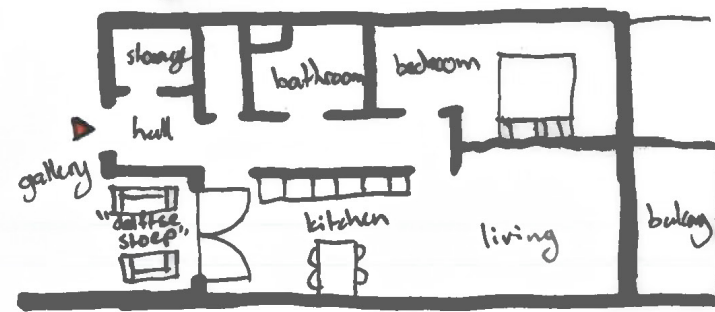
Kangaroo dwelling

Type A



- studio
- 33m²

Type B



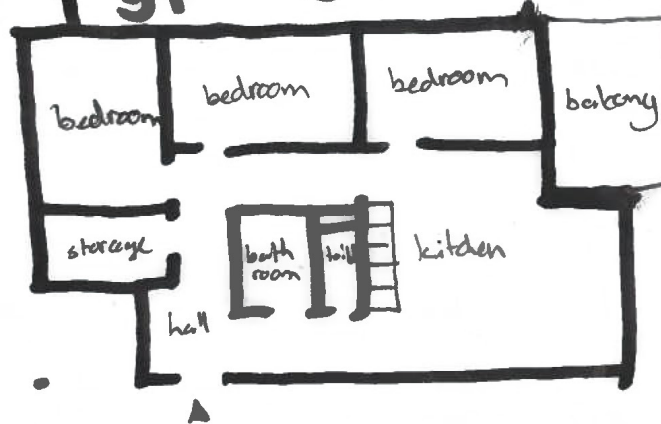
- 1 bedroom
- 62 m²

Type C



- 2 bedroom
- 70m²

Type D



- 3 bedroom
- 80m²

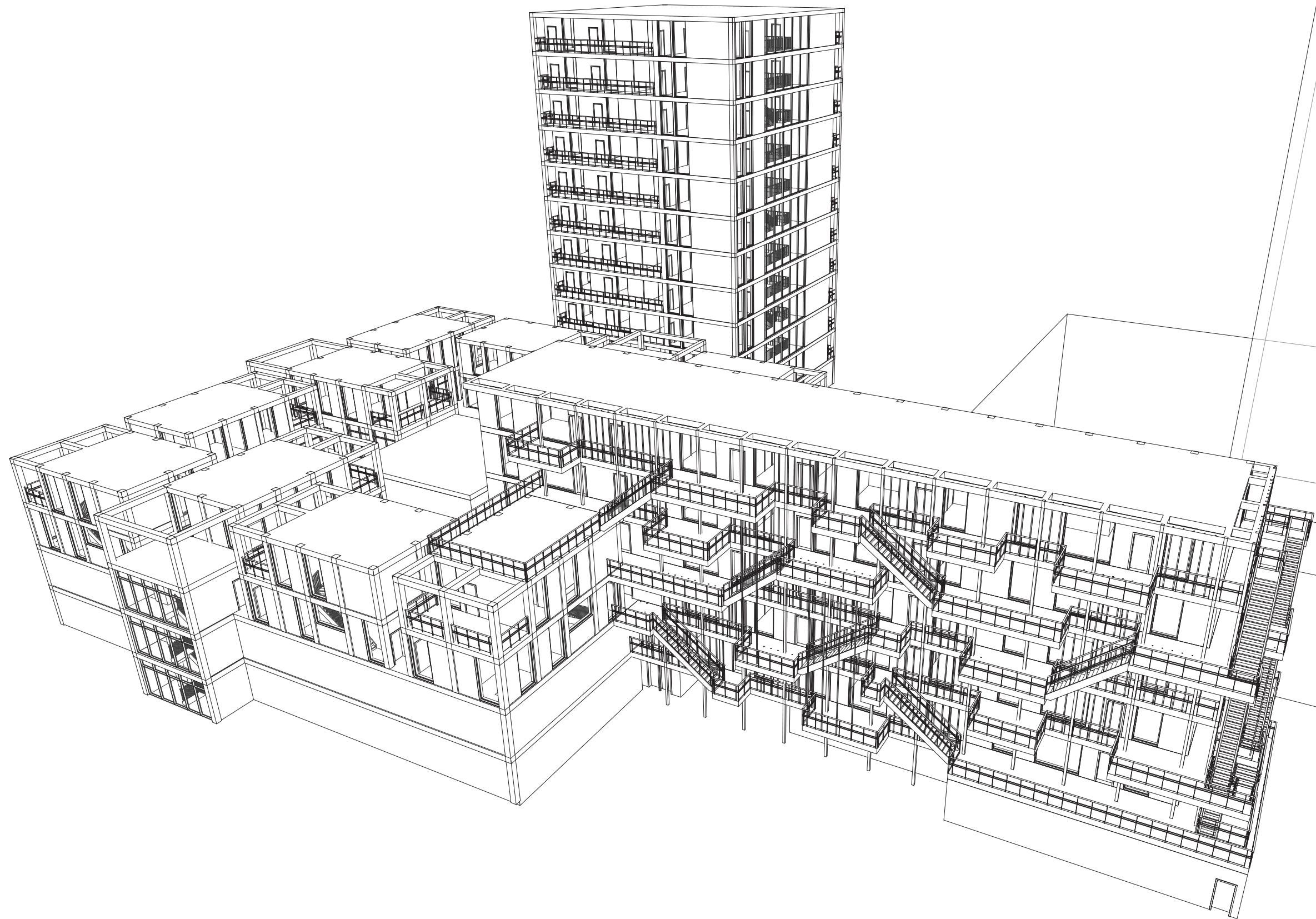
Type E



- Type A + C
- 38m² + 60m²
- studio + 2 bedroom

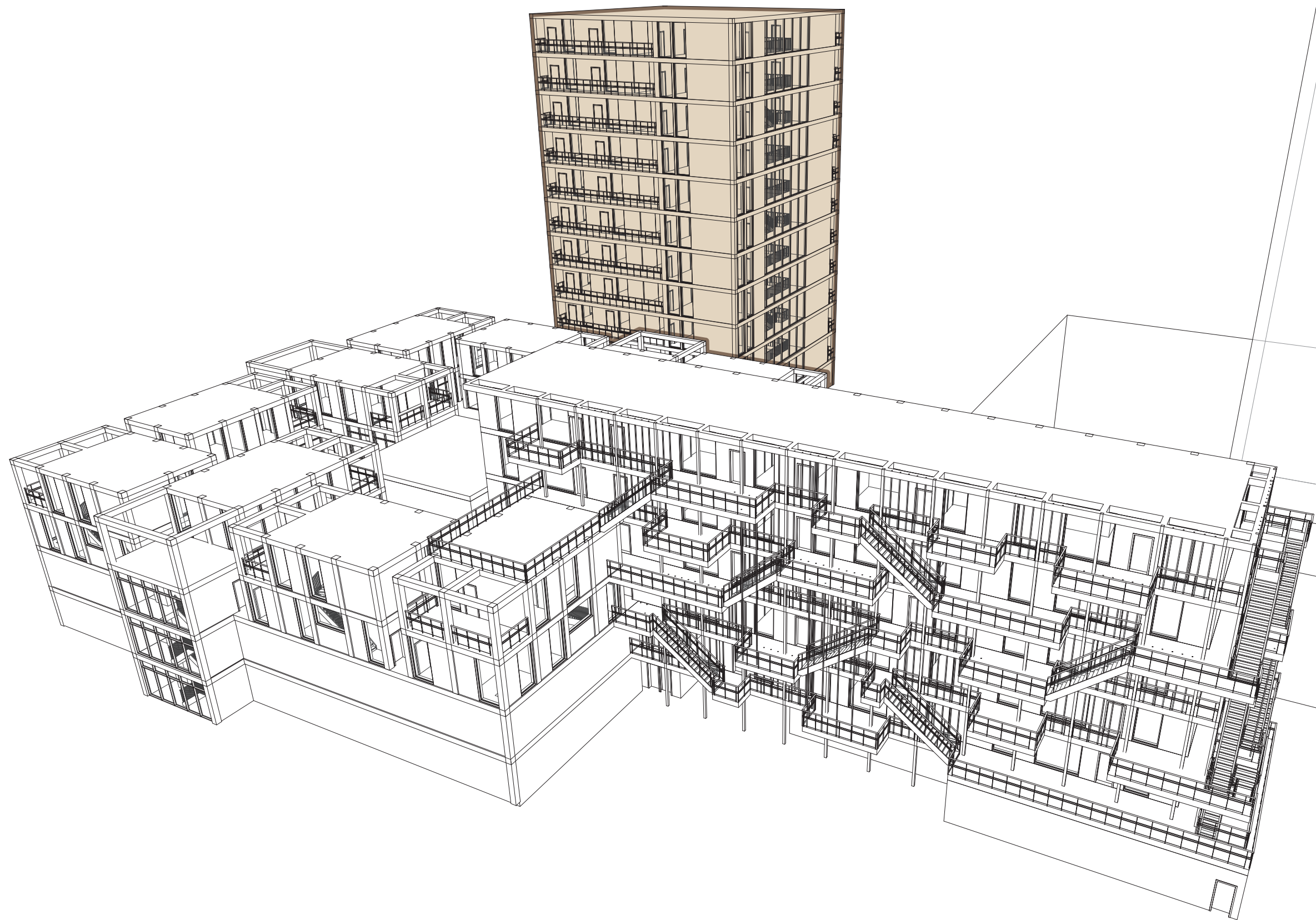
DESIGN

3 BUILDINGS



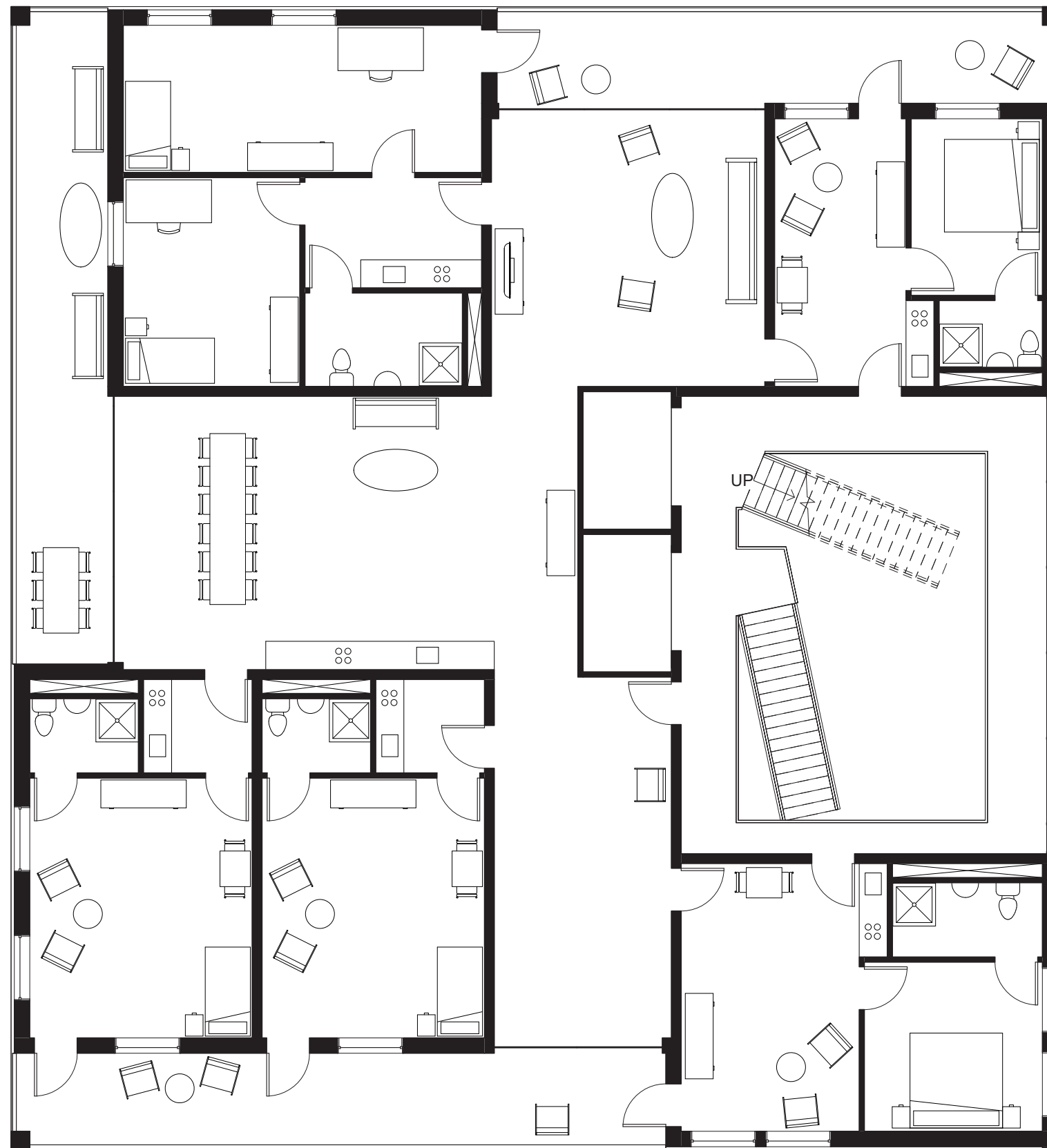
THE TOWER

Building A



THE TOWER

Floorplans



THE TOWER

Shared space



THE TOWER

Shared living, kitchen & dining



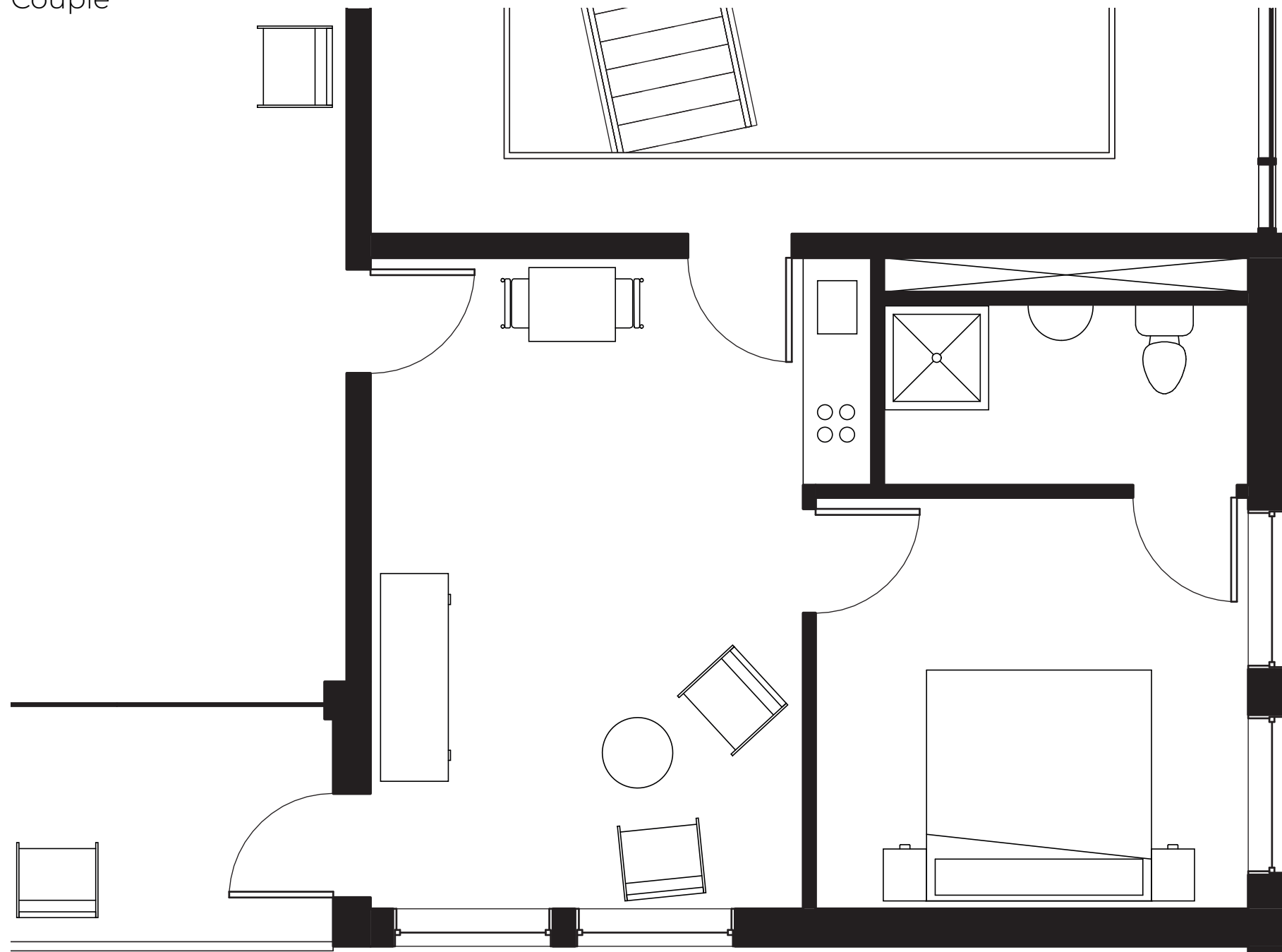
THE TOWER

Dwelling types



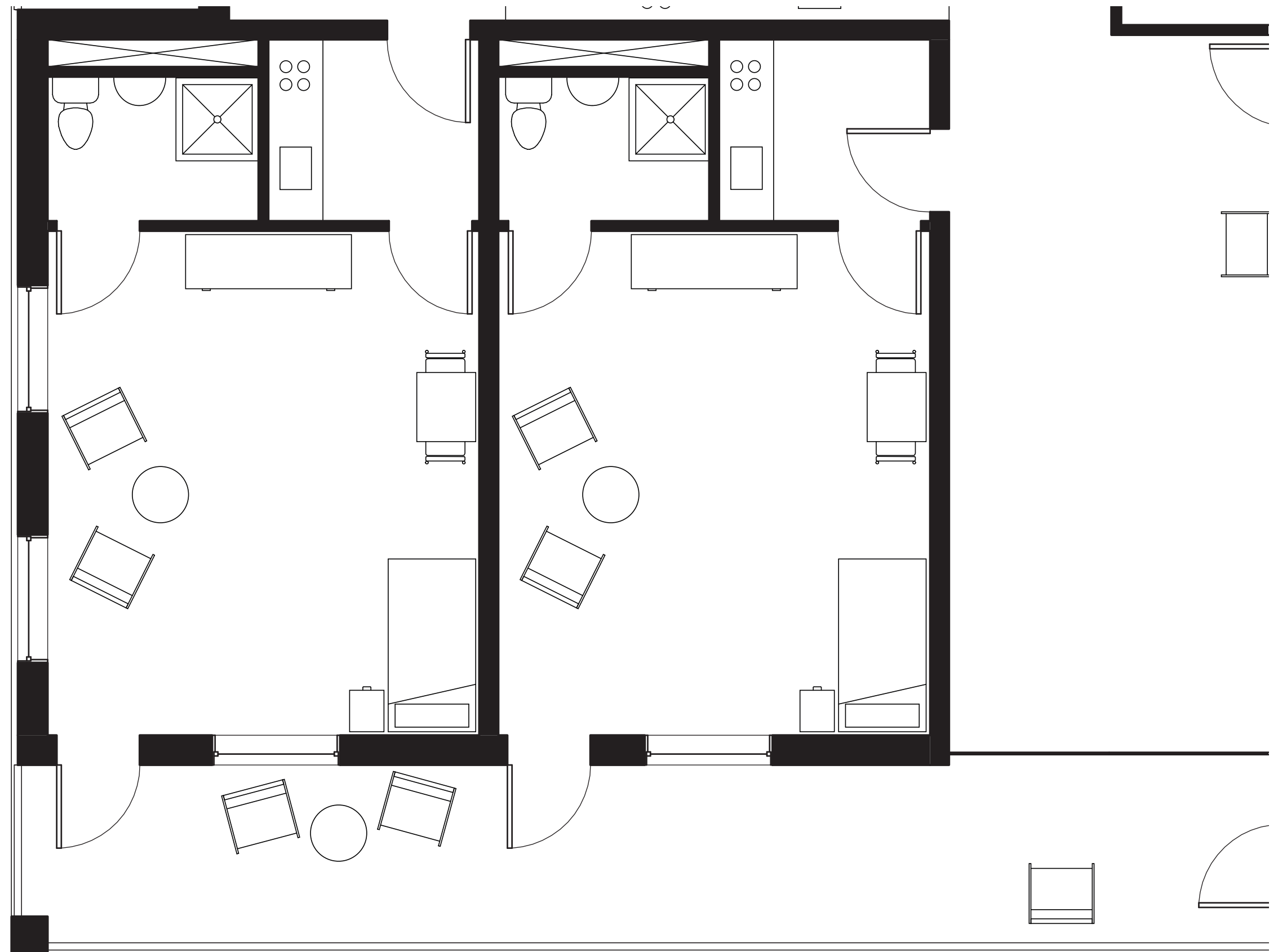
THE TOWER

Couple



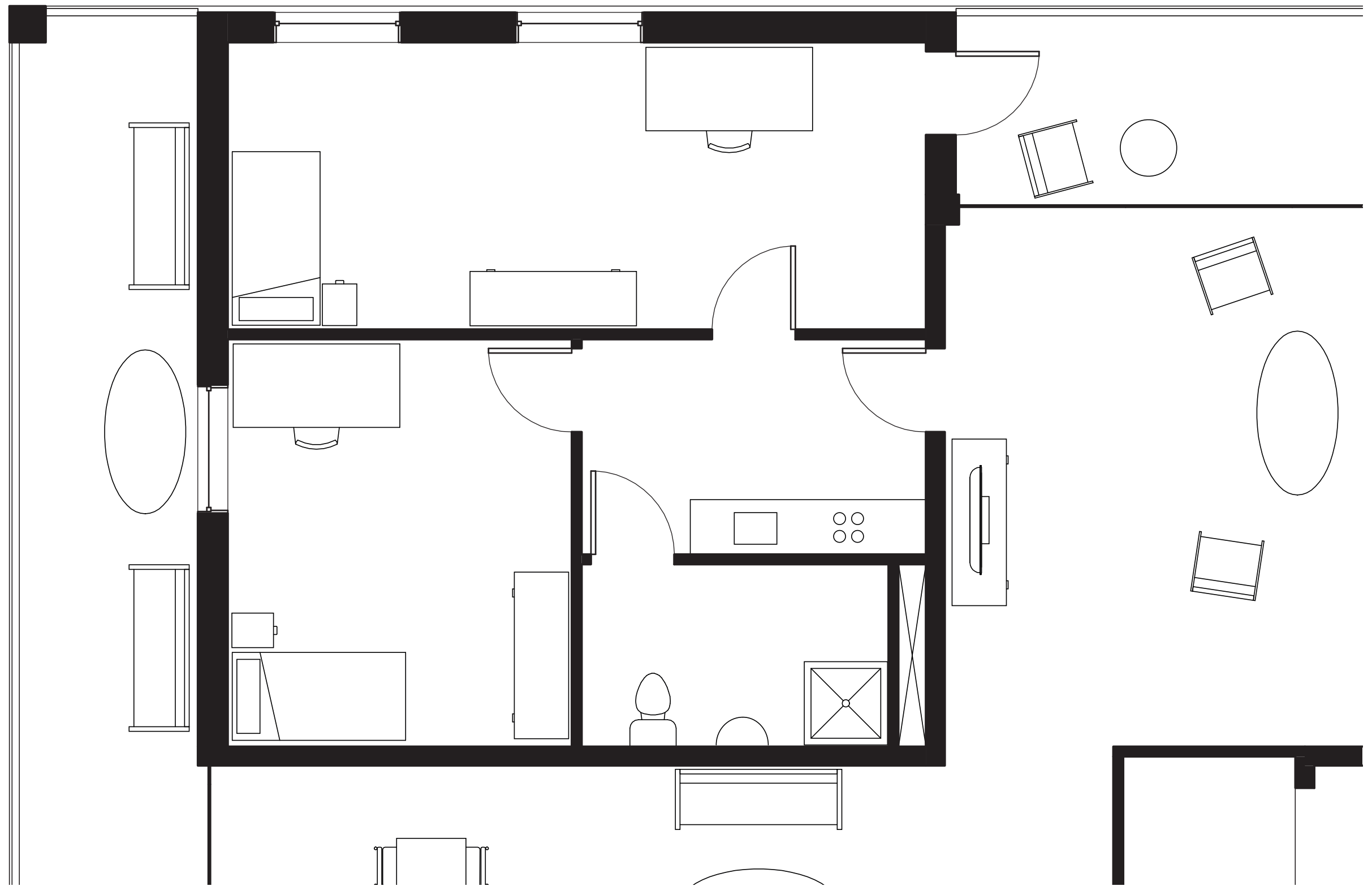
THE TOWER

Solo-dweller



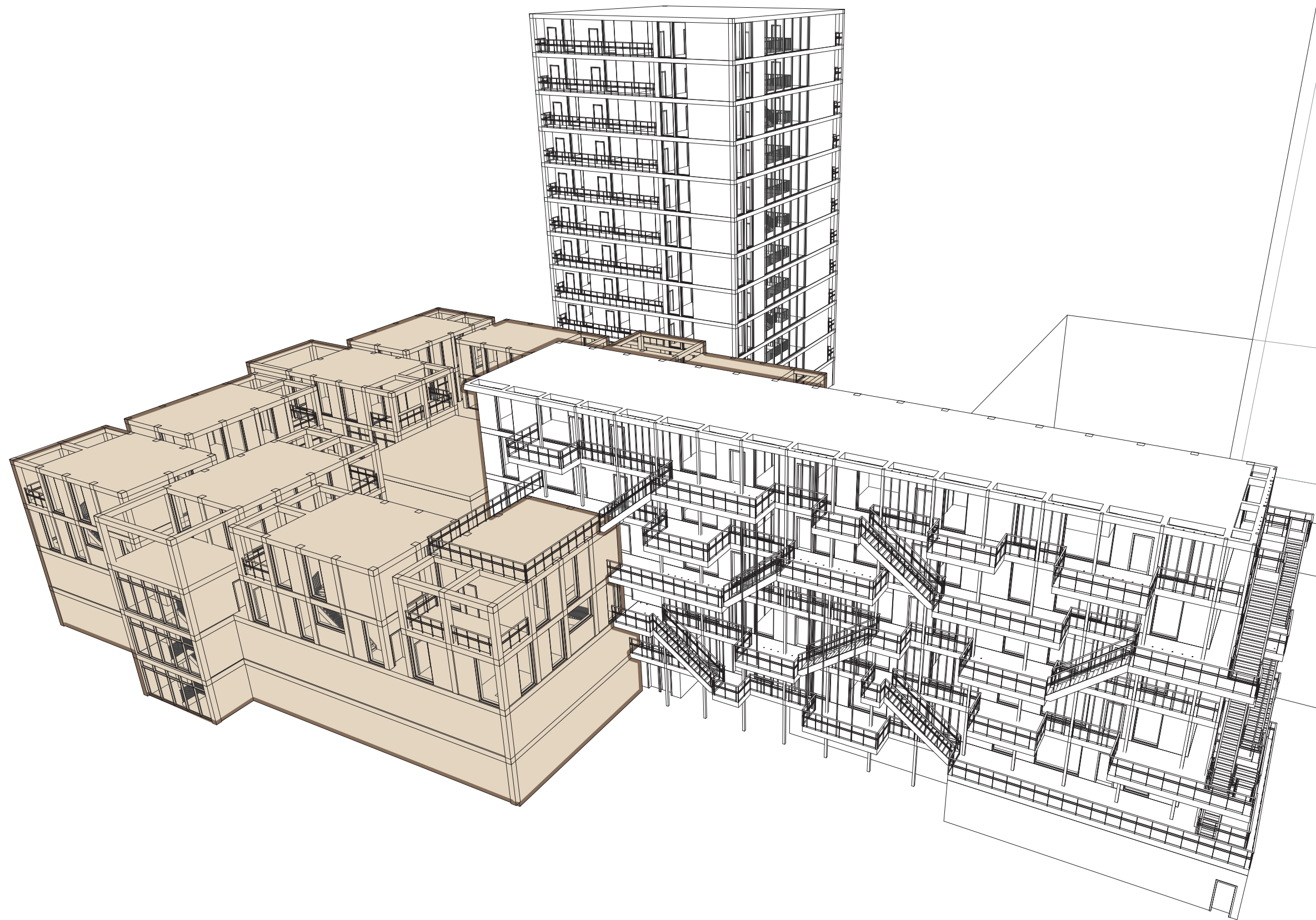
THE TOWER

Assisted living



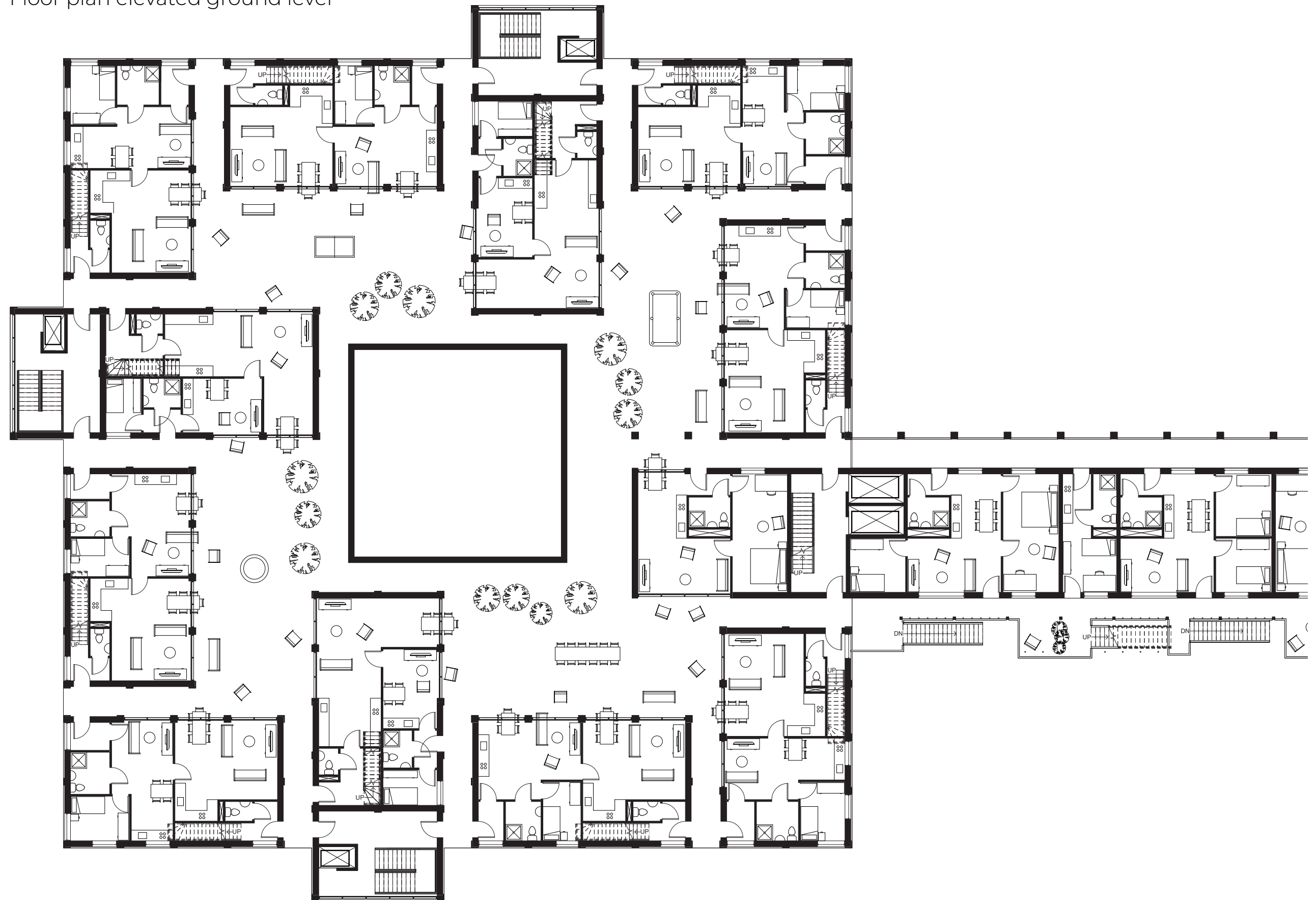
THE BLOCKS

Building B



THE BLOCKS

Floor plan elevated ground level



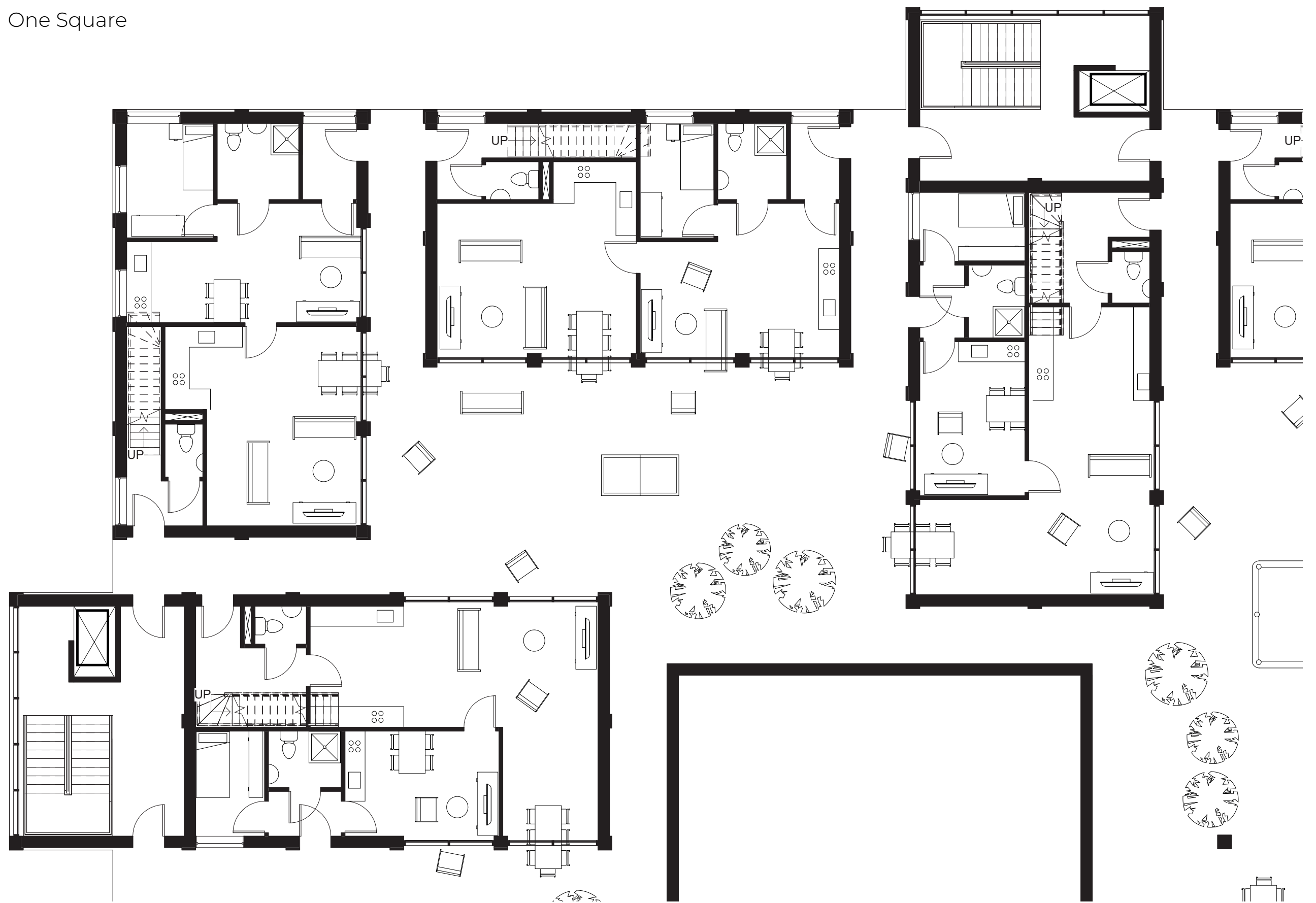
THE BLOCKS

Living on the square



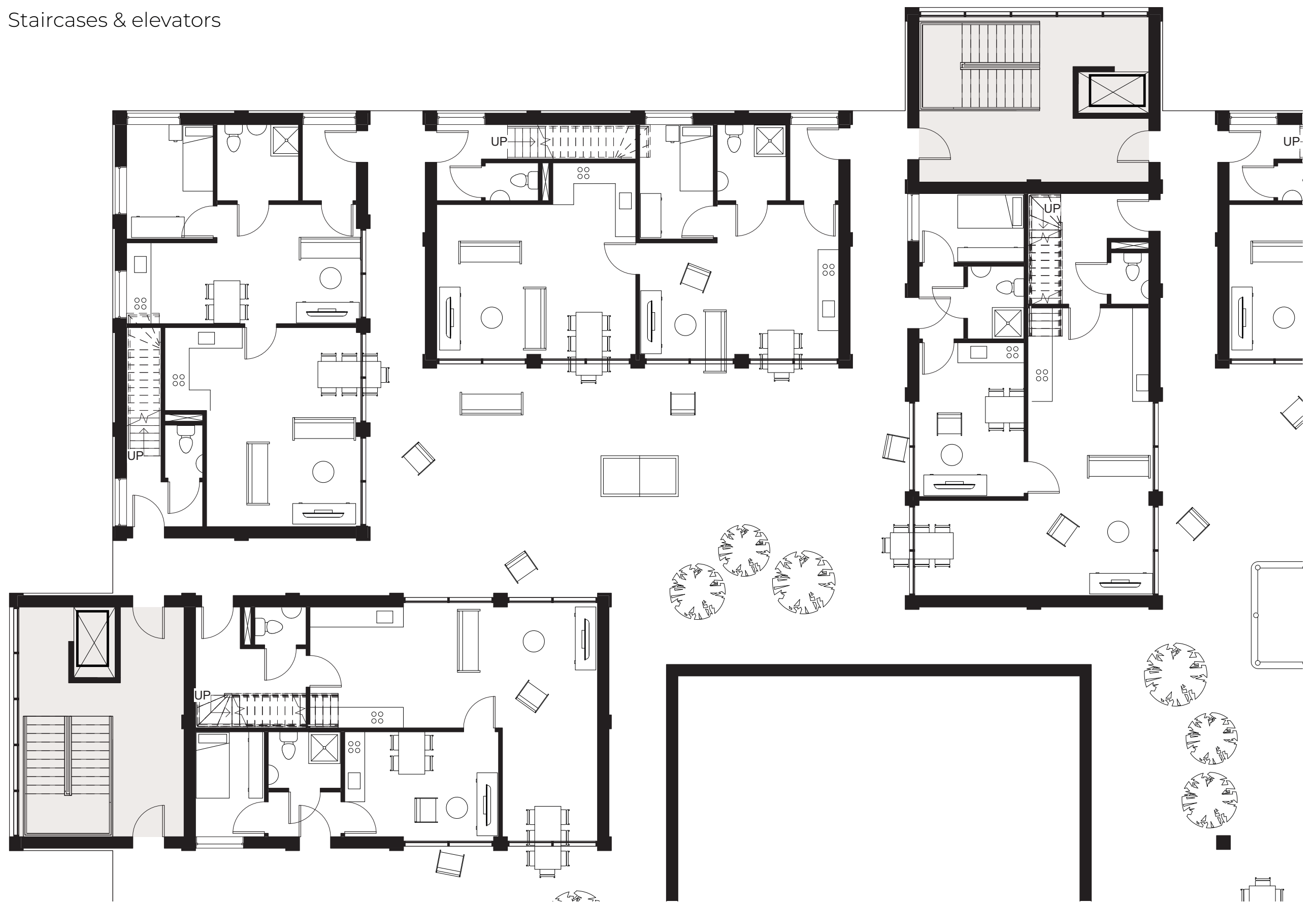
THE BLOCKS

One Square



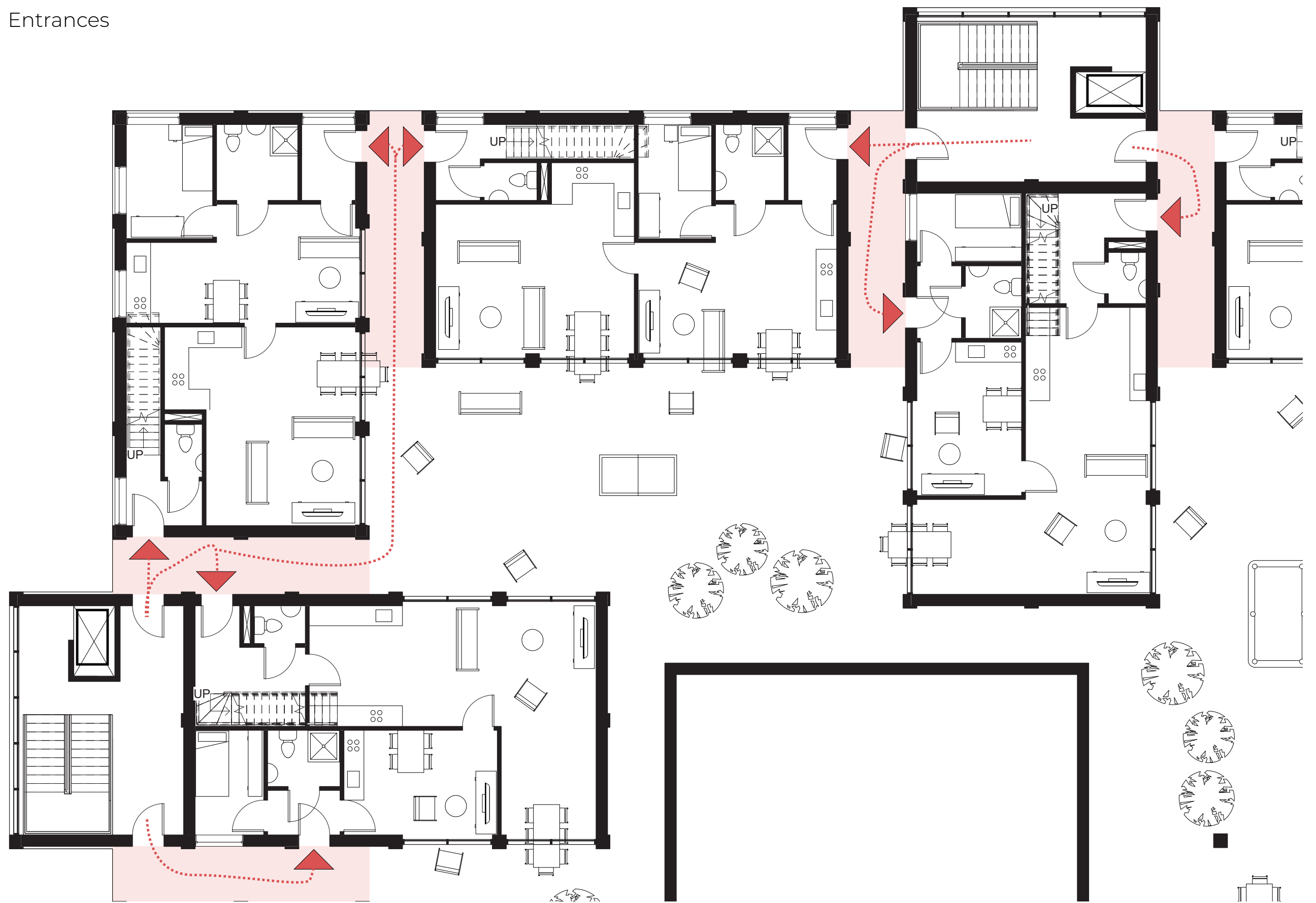
THE BLOCKS

Staircases & elevators



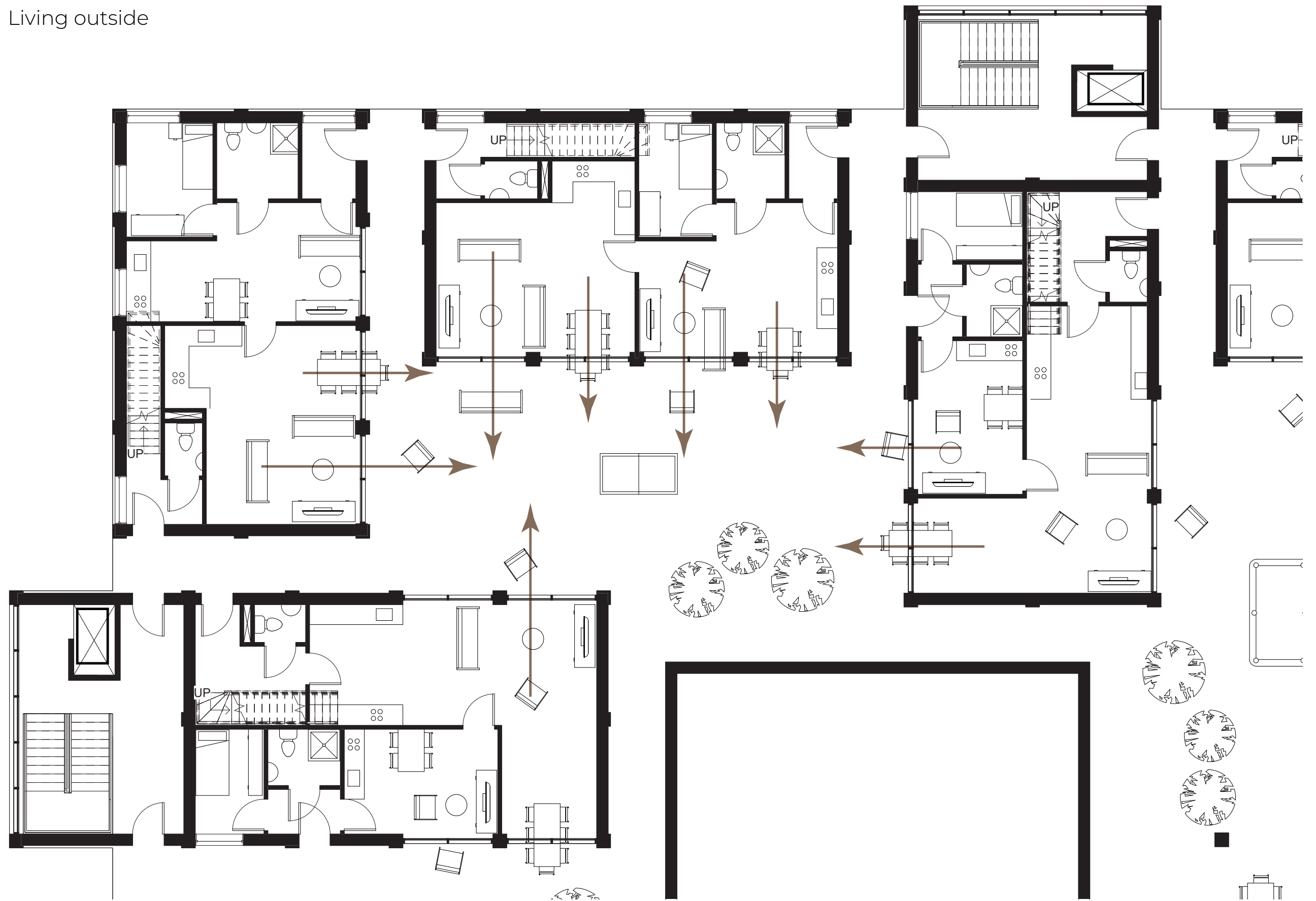
THE BLOCKS

Entrances



THE BLOCKS

Living outside



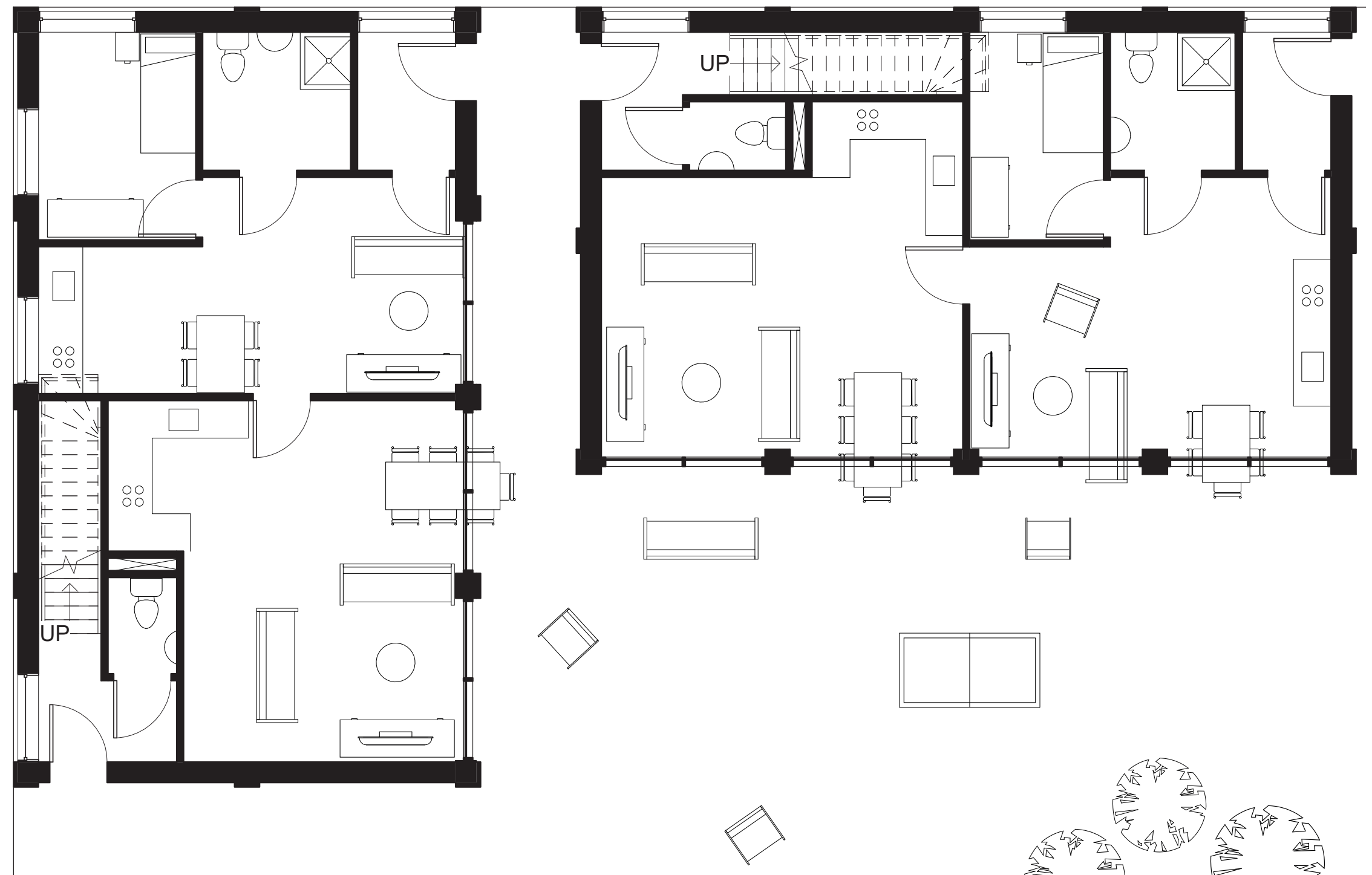
THE BLOCKS

Impression living outside



THE BLOCKS

Dwelling type



THE BLOCKS

Kangaroo dwelling



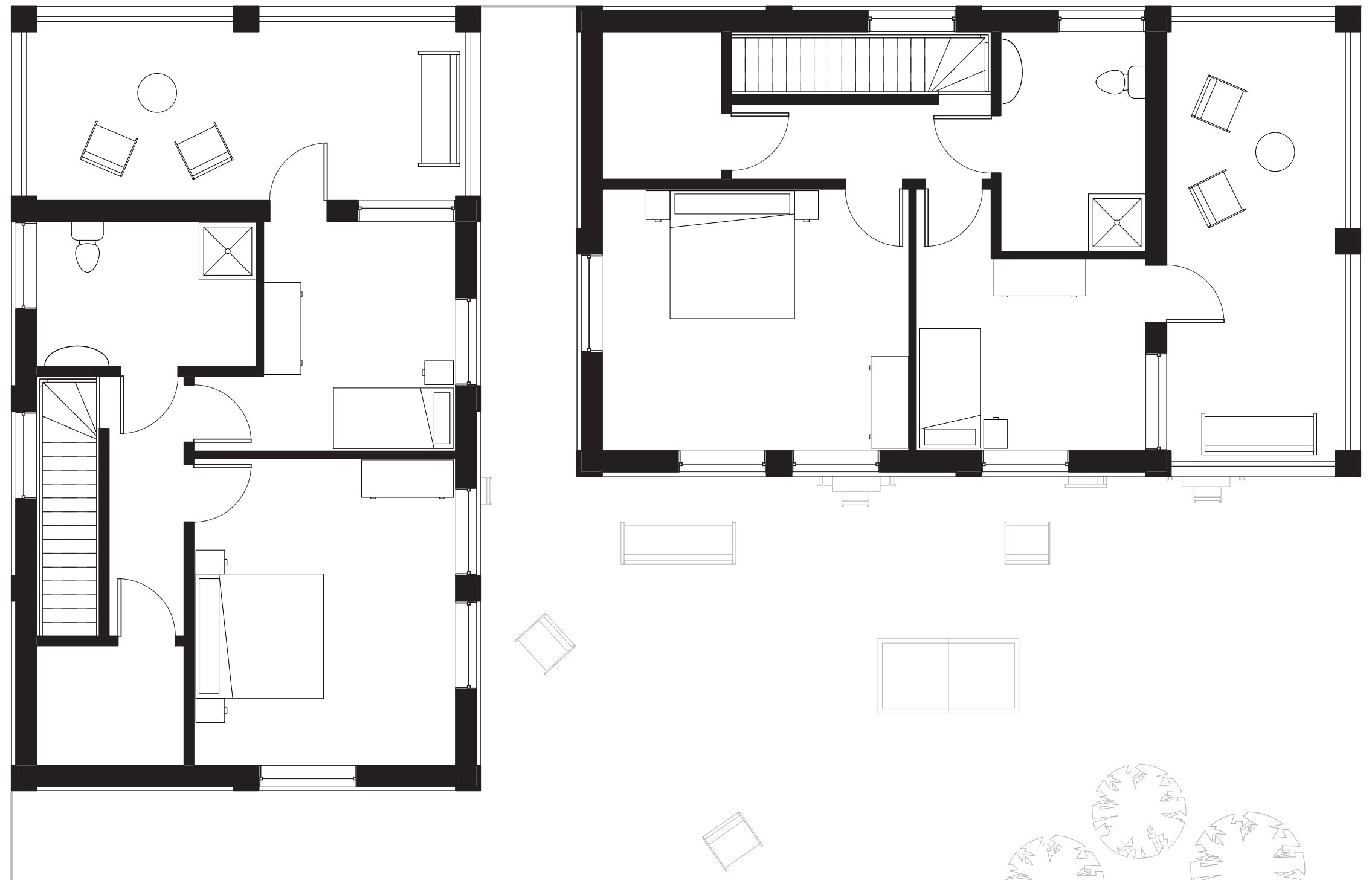
THE BLOCKS

Living area



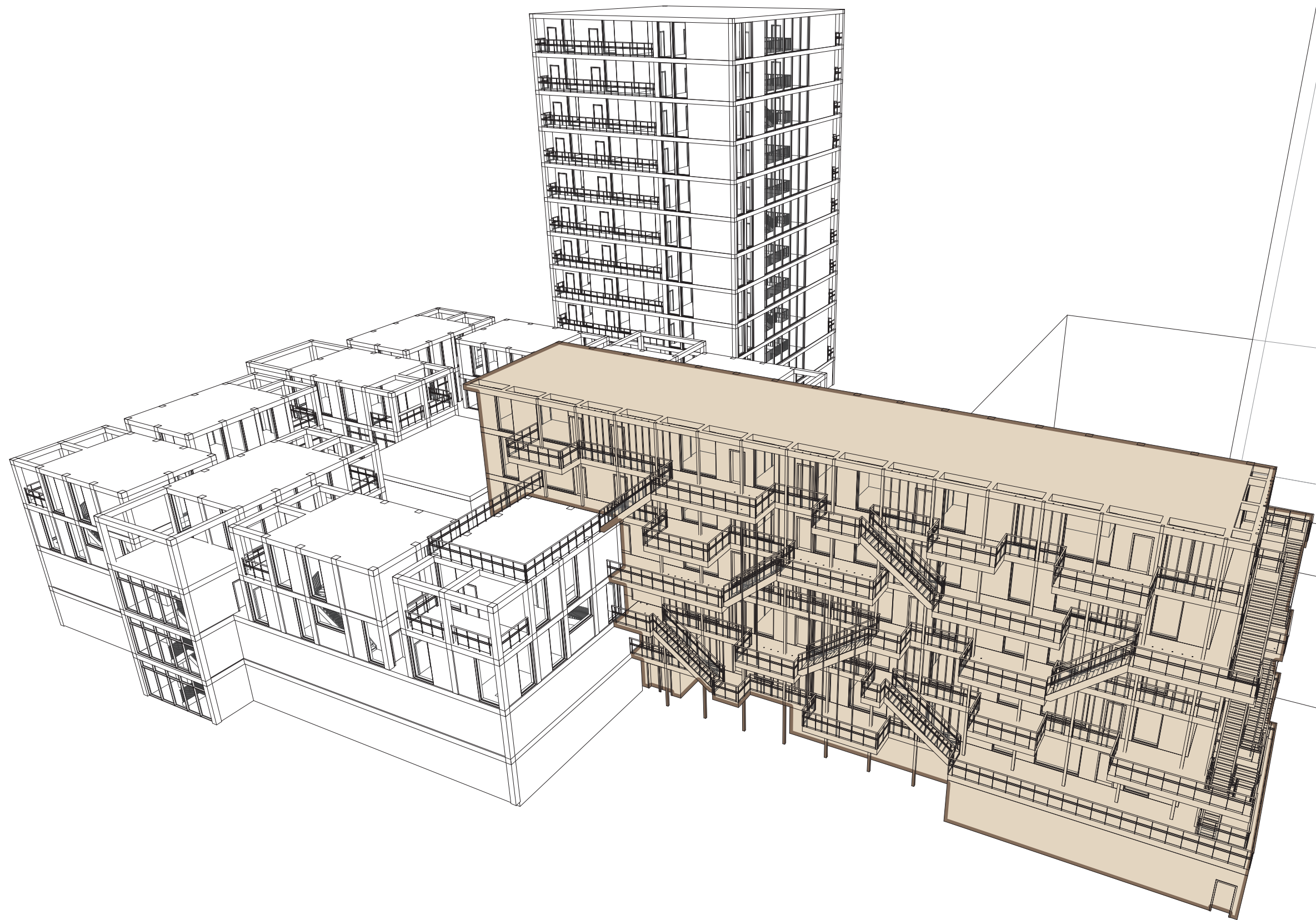
THE BLOCKS

Upstairs



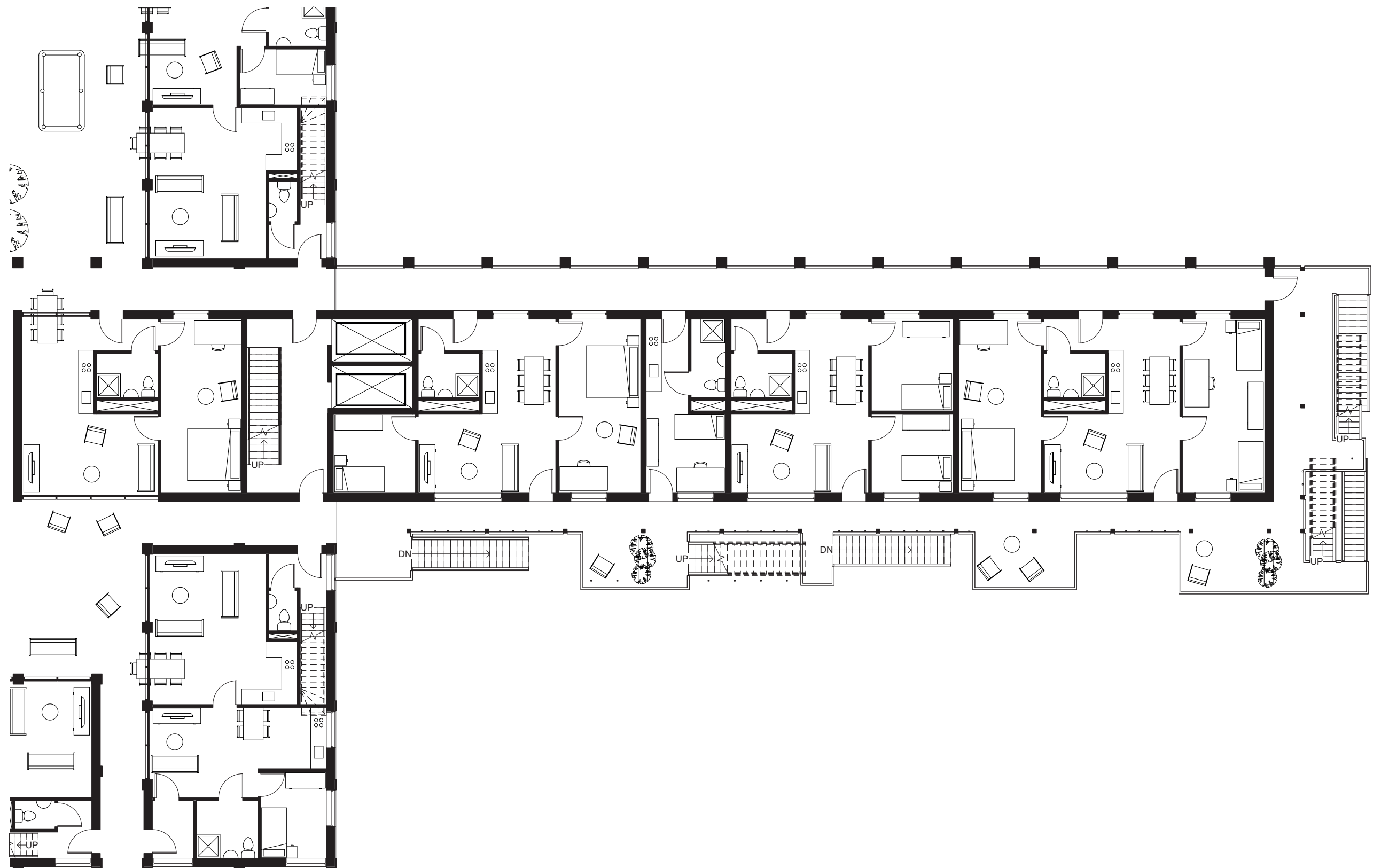
THE SLAB

Building C



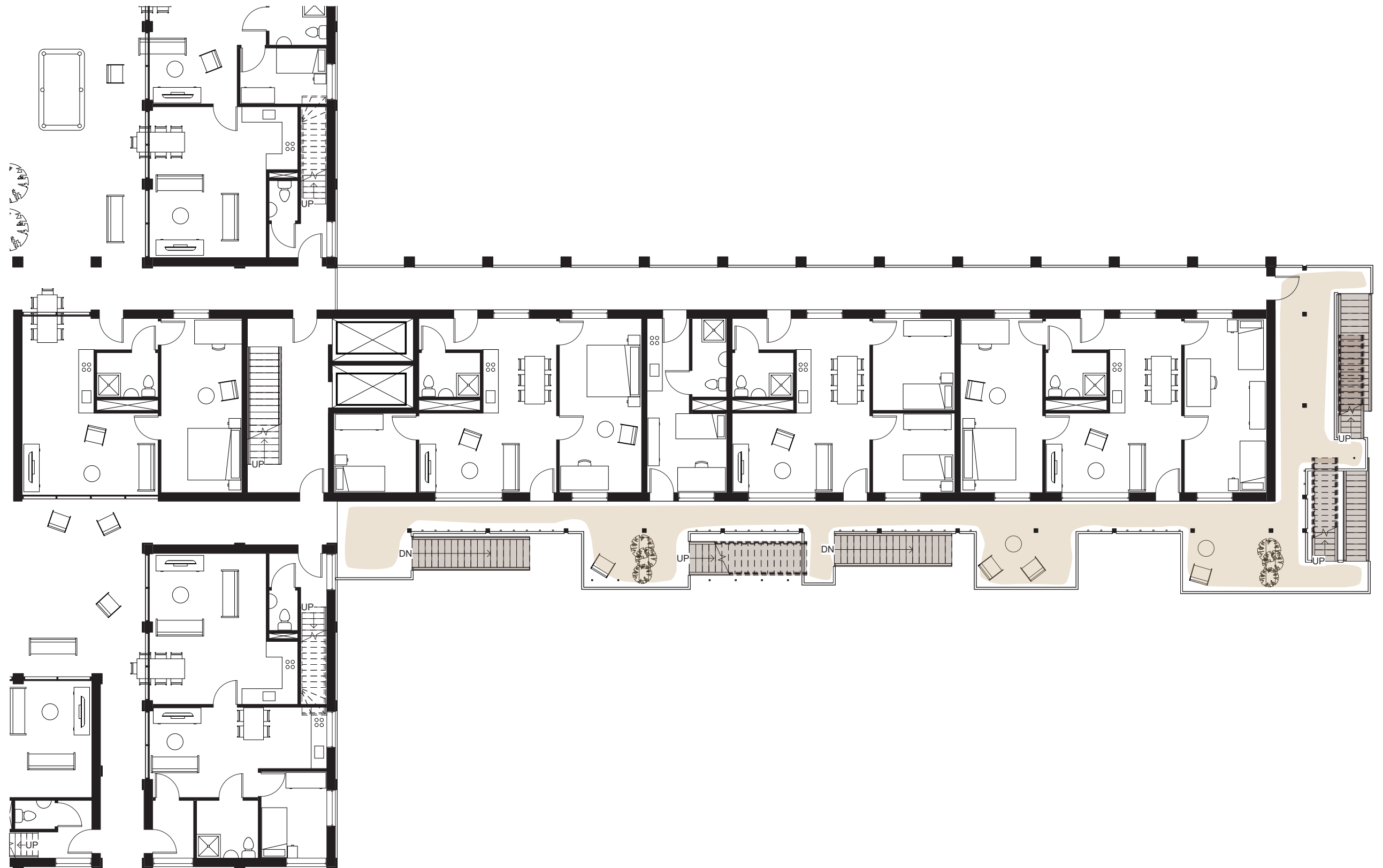
THE SLAB

Floor plan



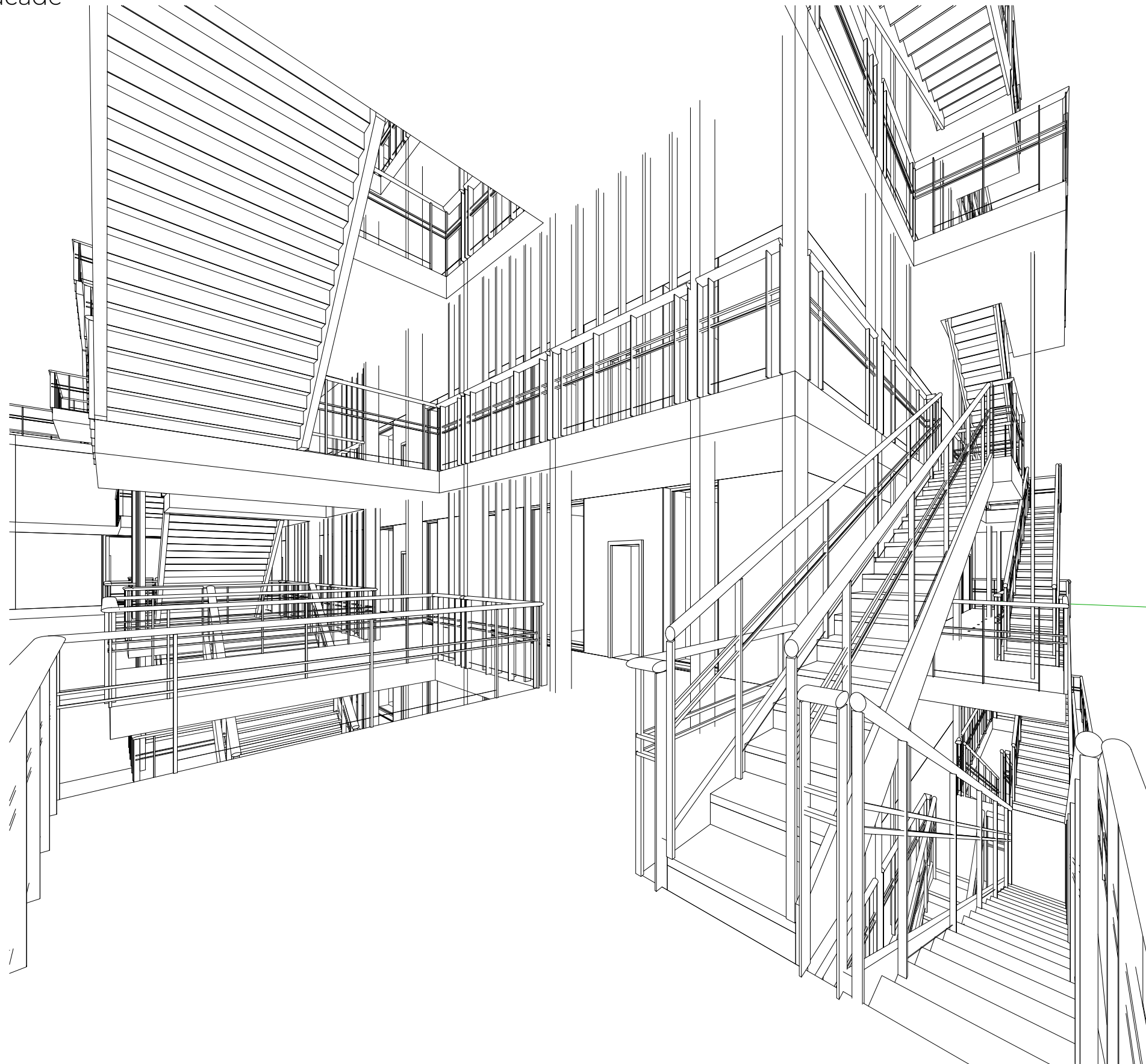
THE SLAB

Meeting your neighbours



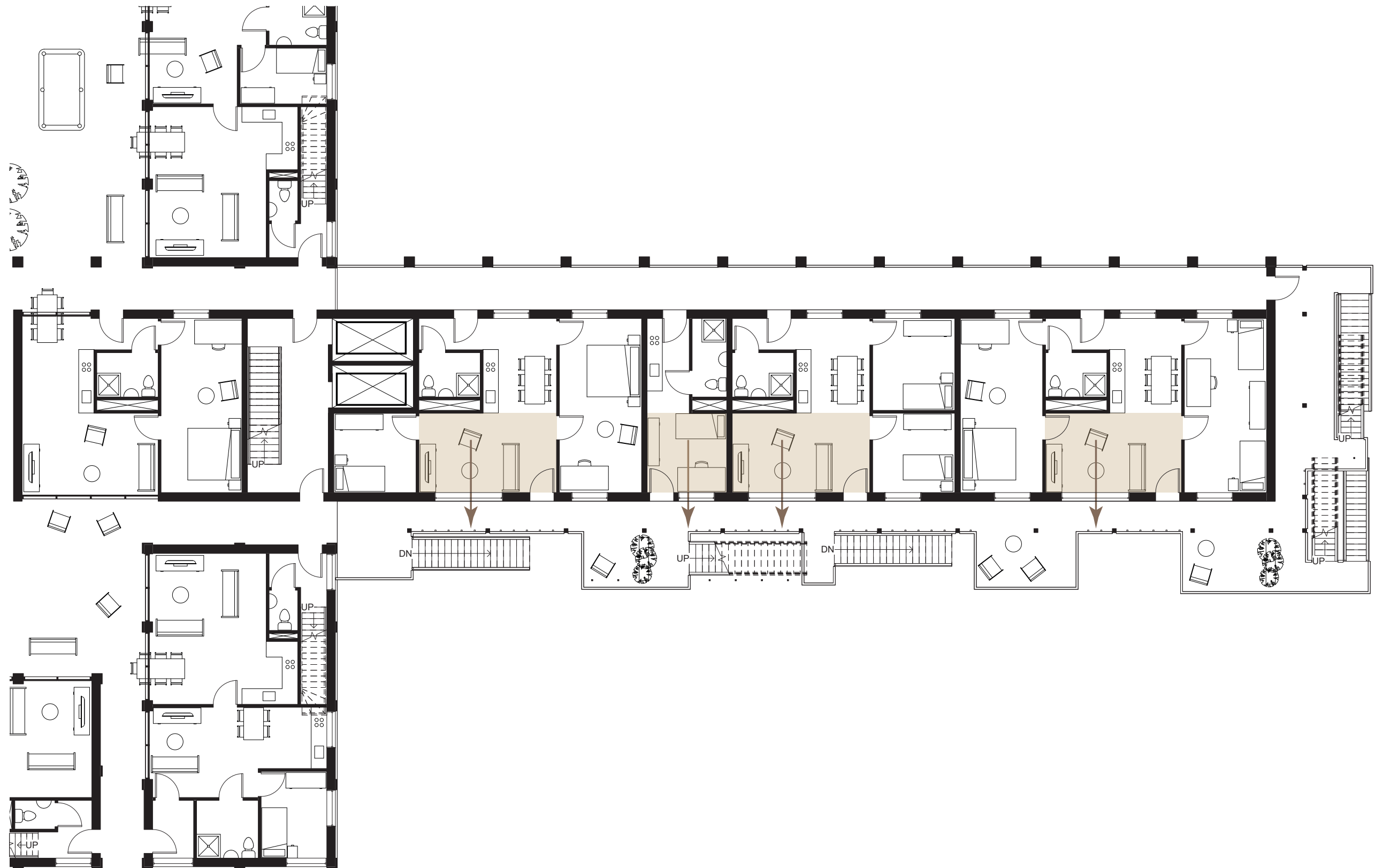
THE SLAB

Second facade



THE SLAB

Living areas



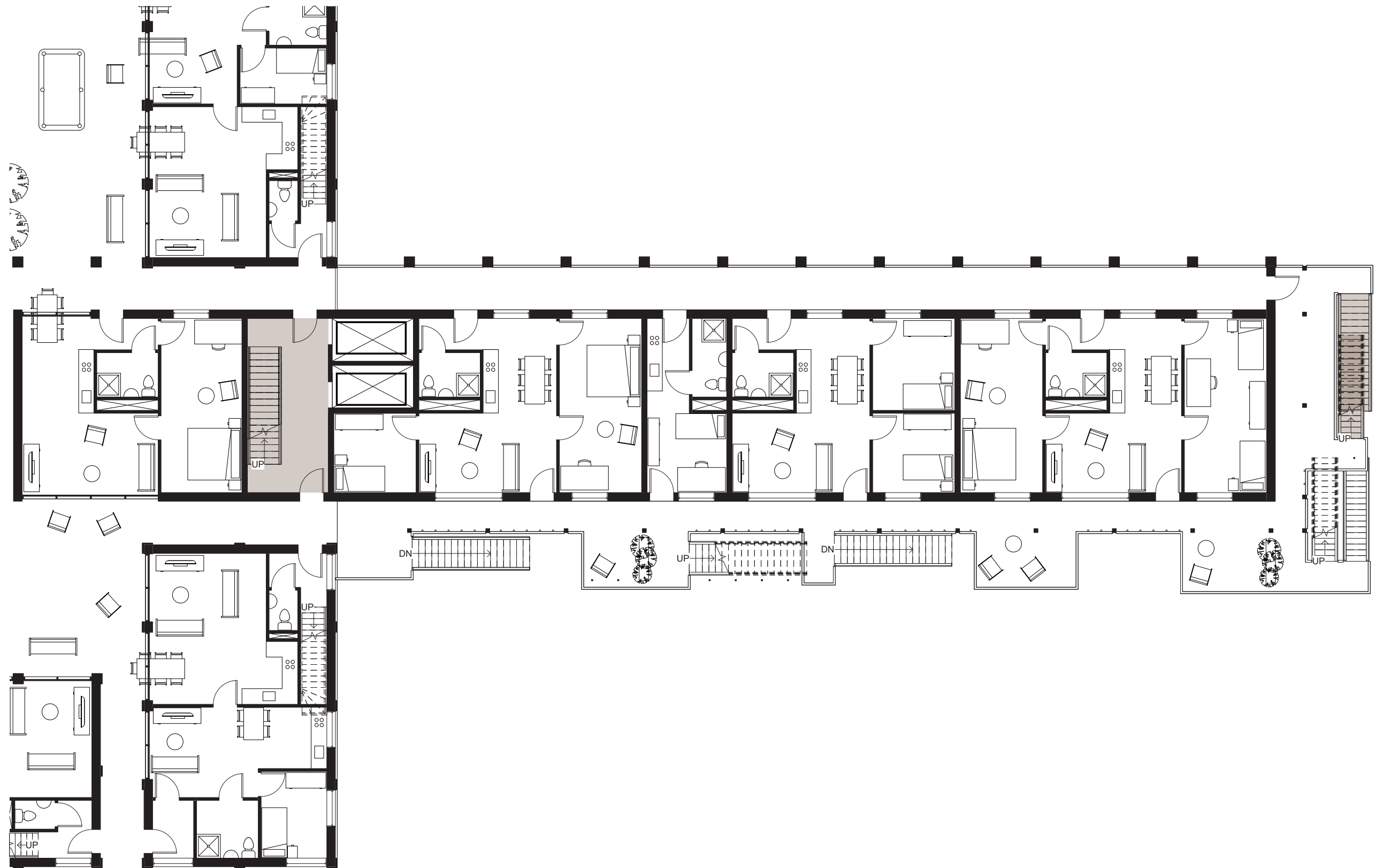
THE SLAB

Impression meeting your neighbours



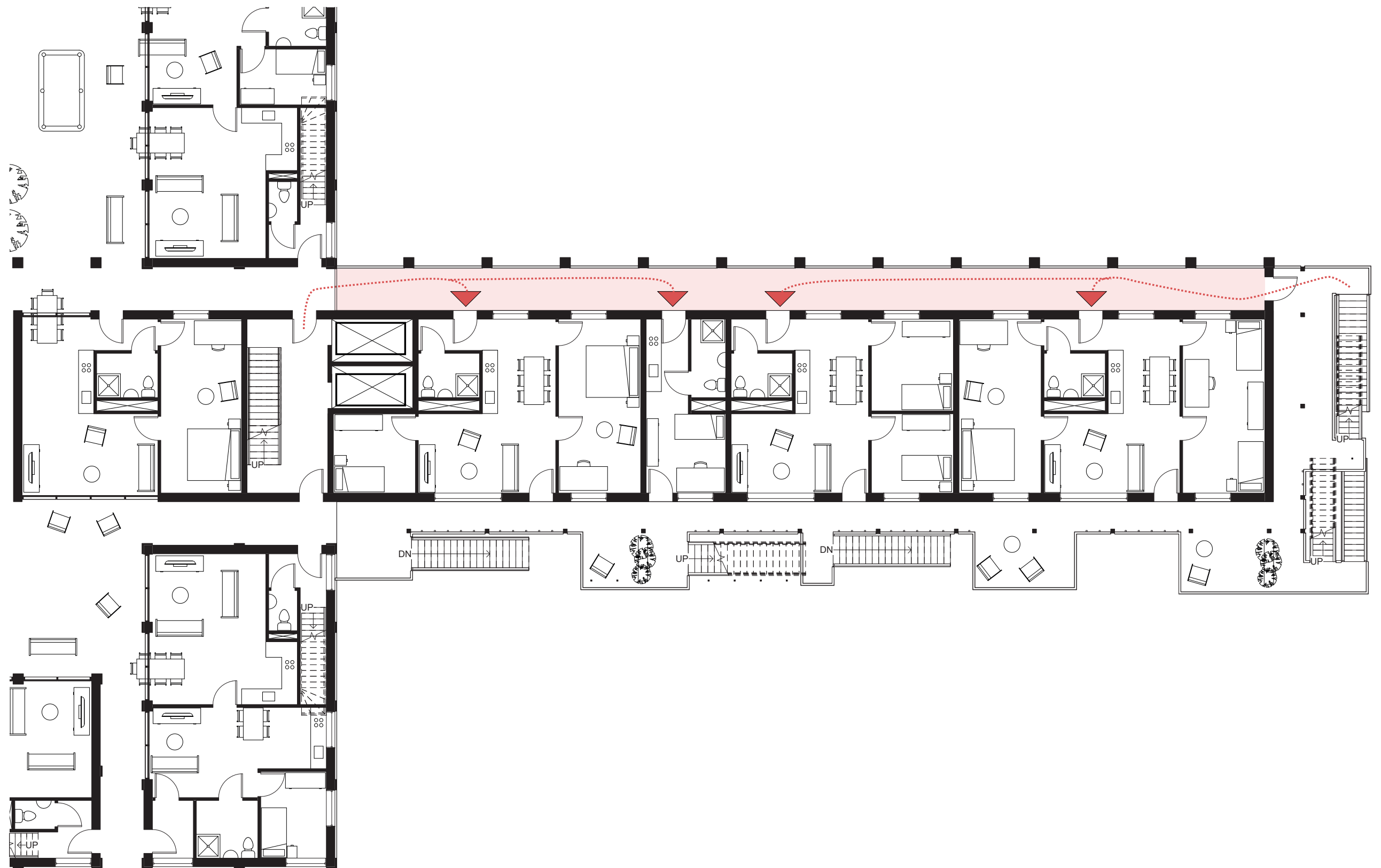
THE SLAB

Stairs & Elevators



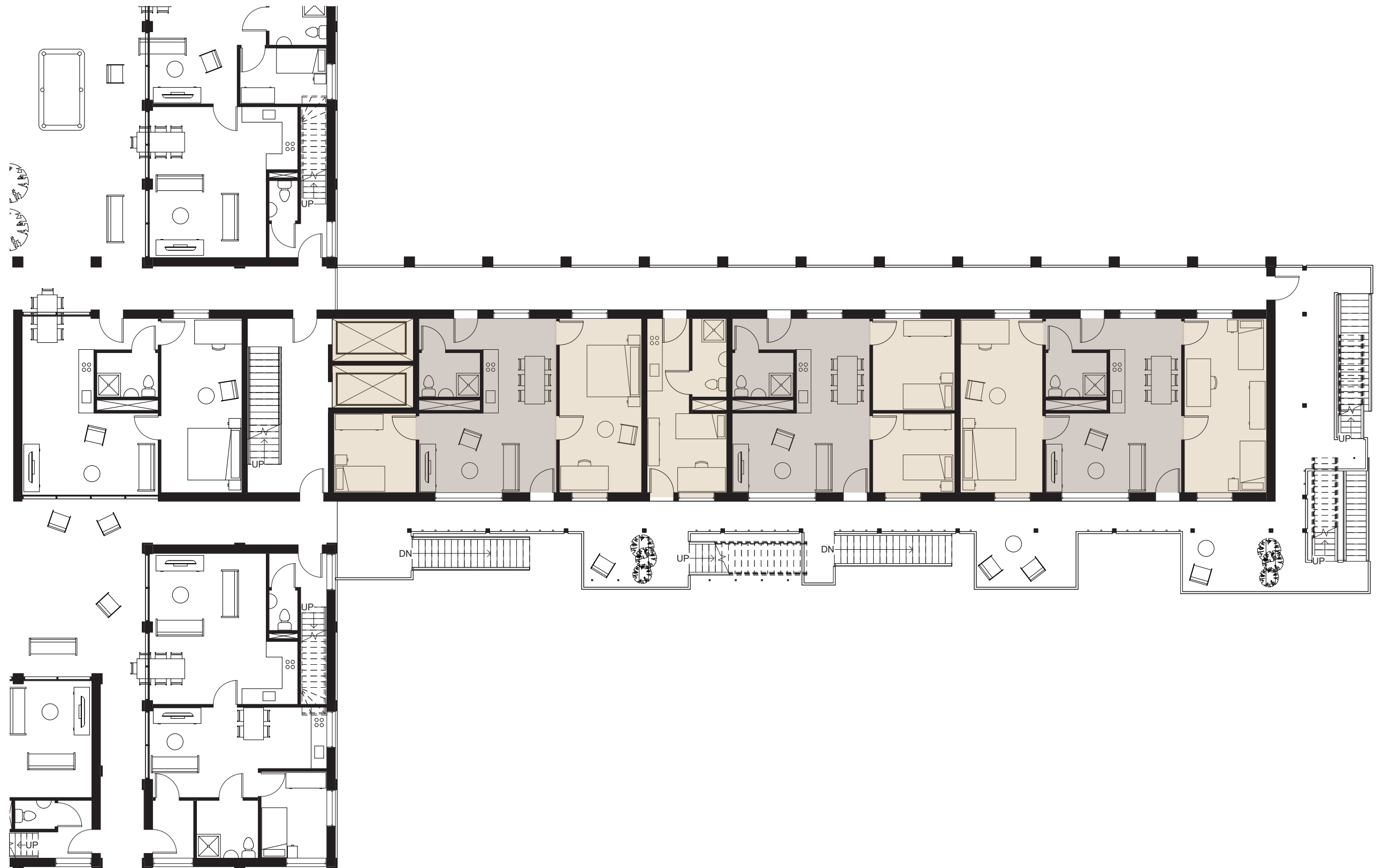
THE SLAB

Front doors



THE SLAB

Flexible dwellings



THE SLAB

Dwelling types



THE SLAB

3-person household

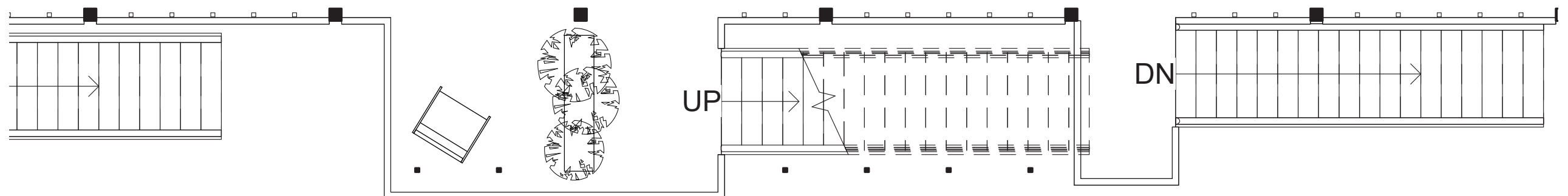
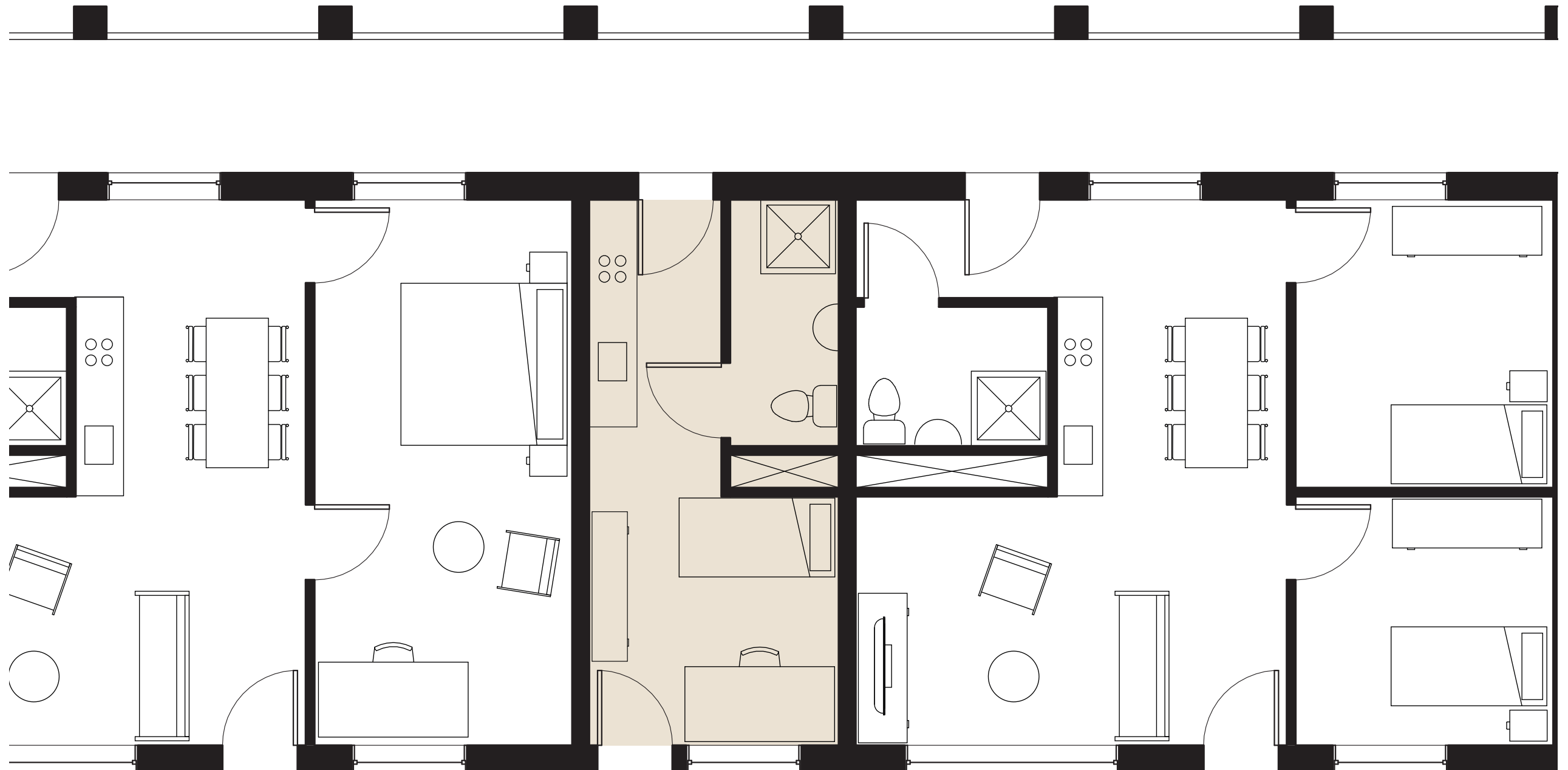


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DESIGN

THE SLAB

Studio

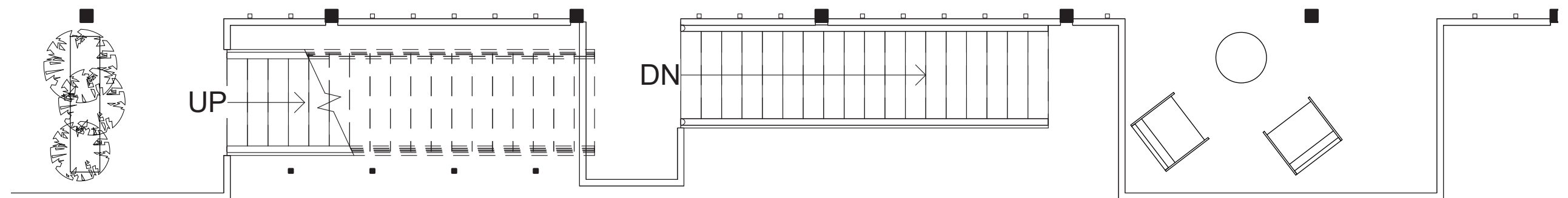


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DESIGN

THE SLAB

2-person household



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DESIGN

THE SLAB

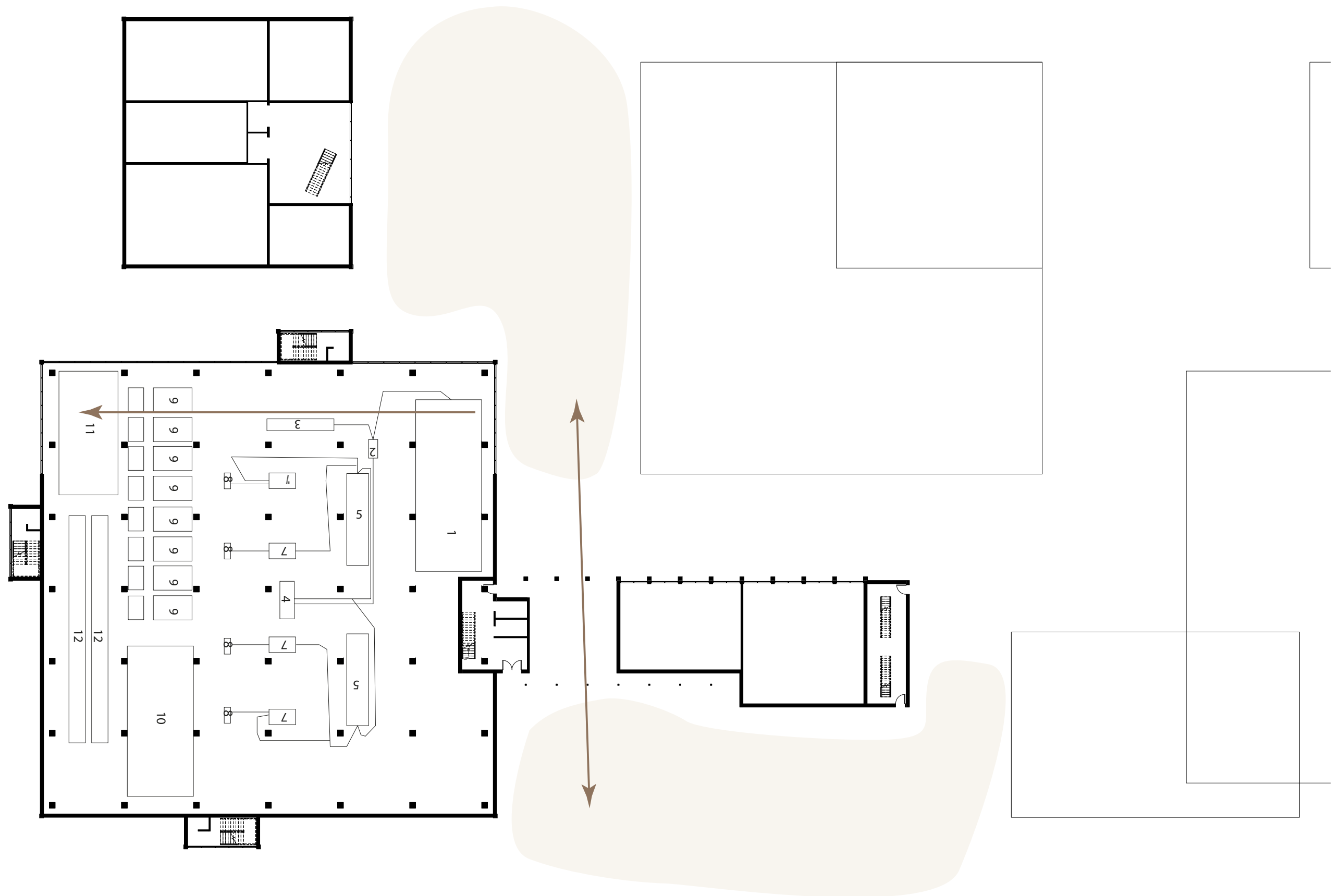
4-person household



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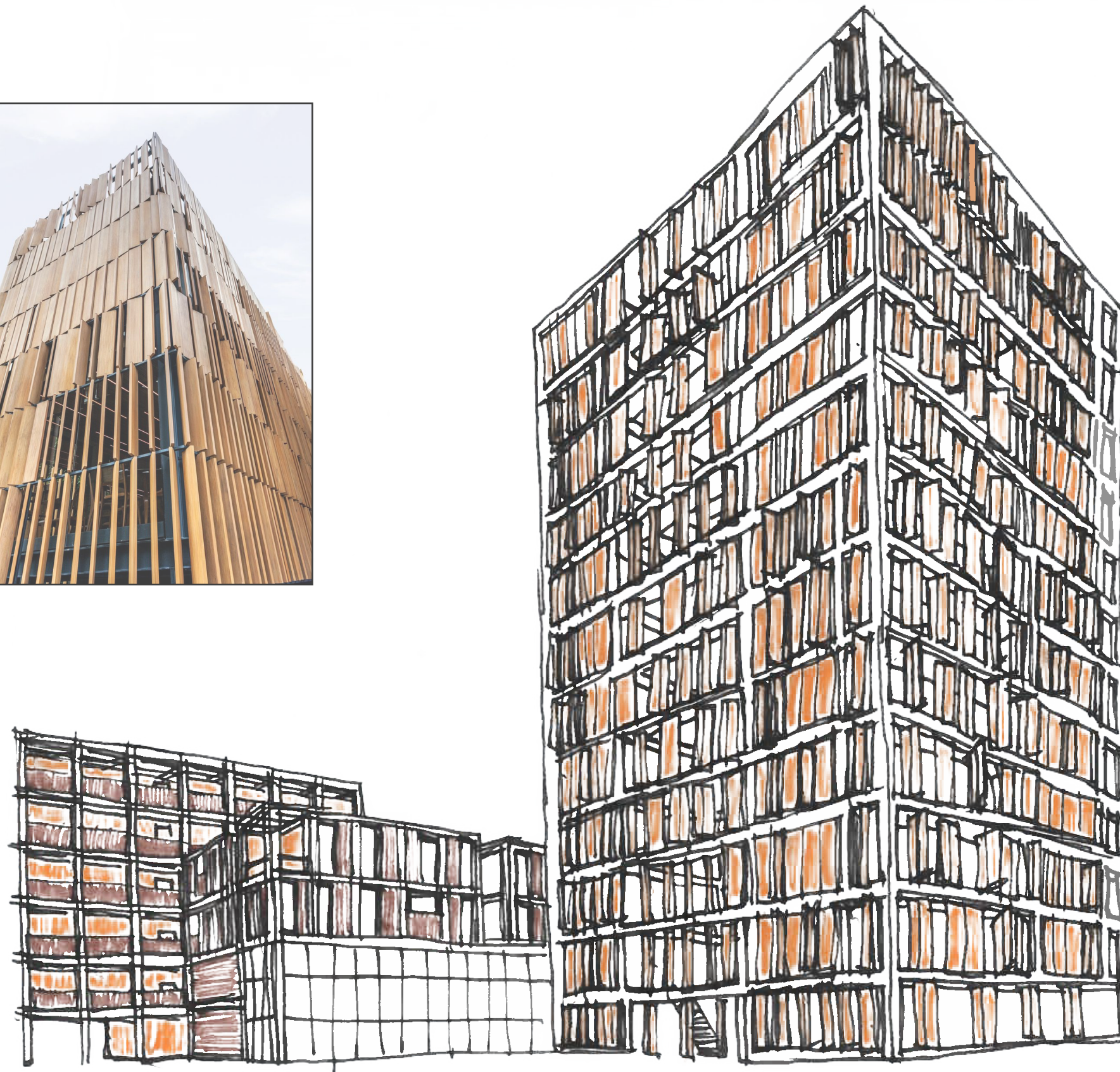
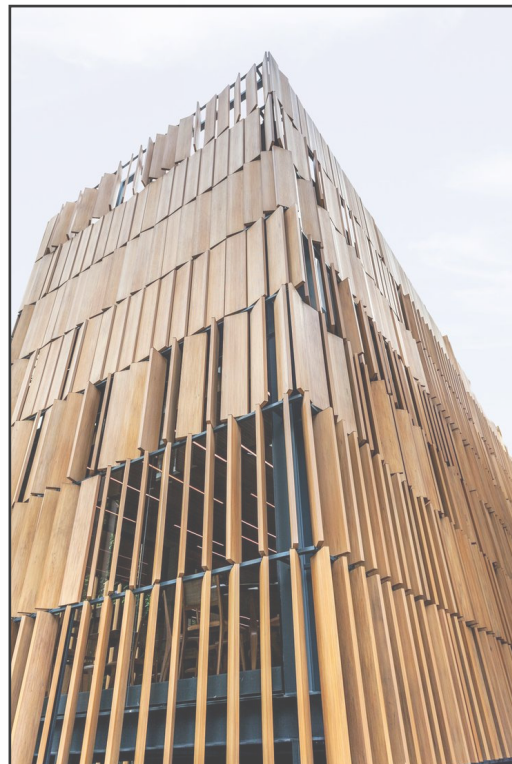
DESIGN

GROUND FLOOR



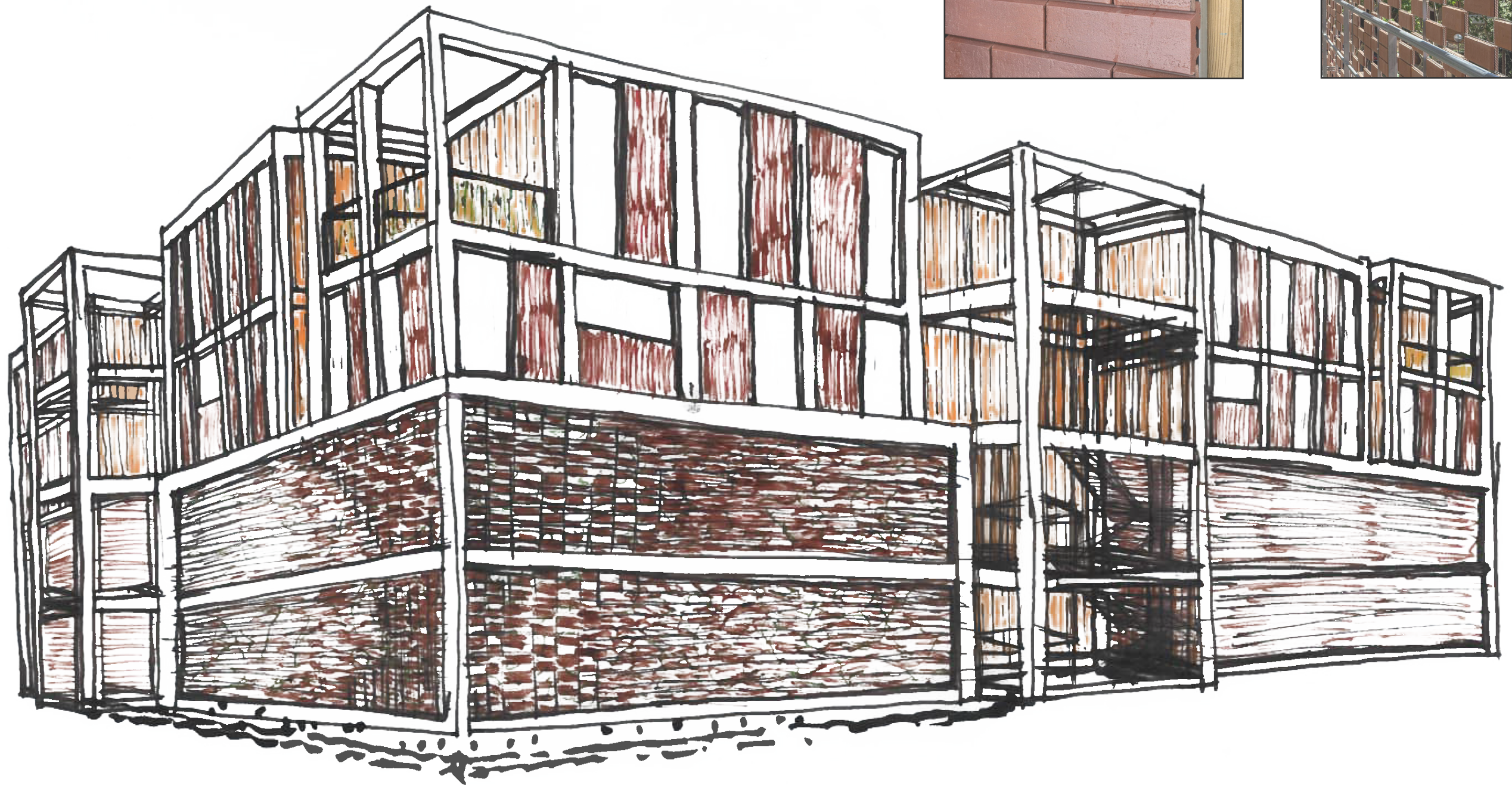
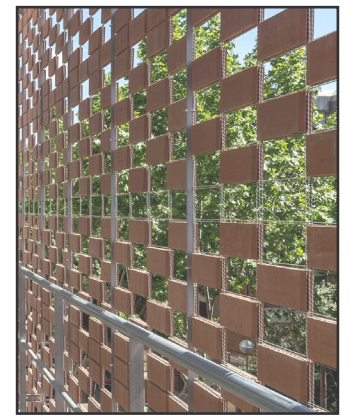
FACADE

The tower



FACADE

The blocks outside



FACADE

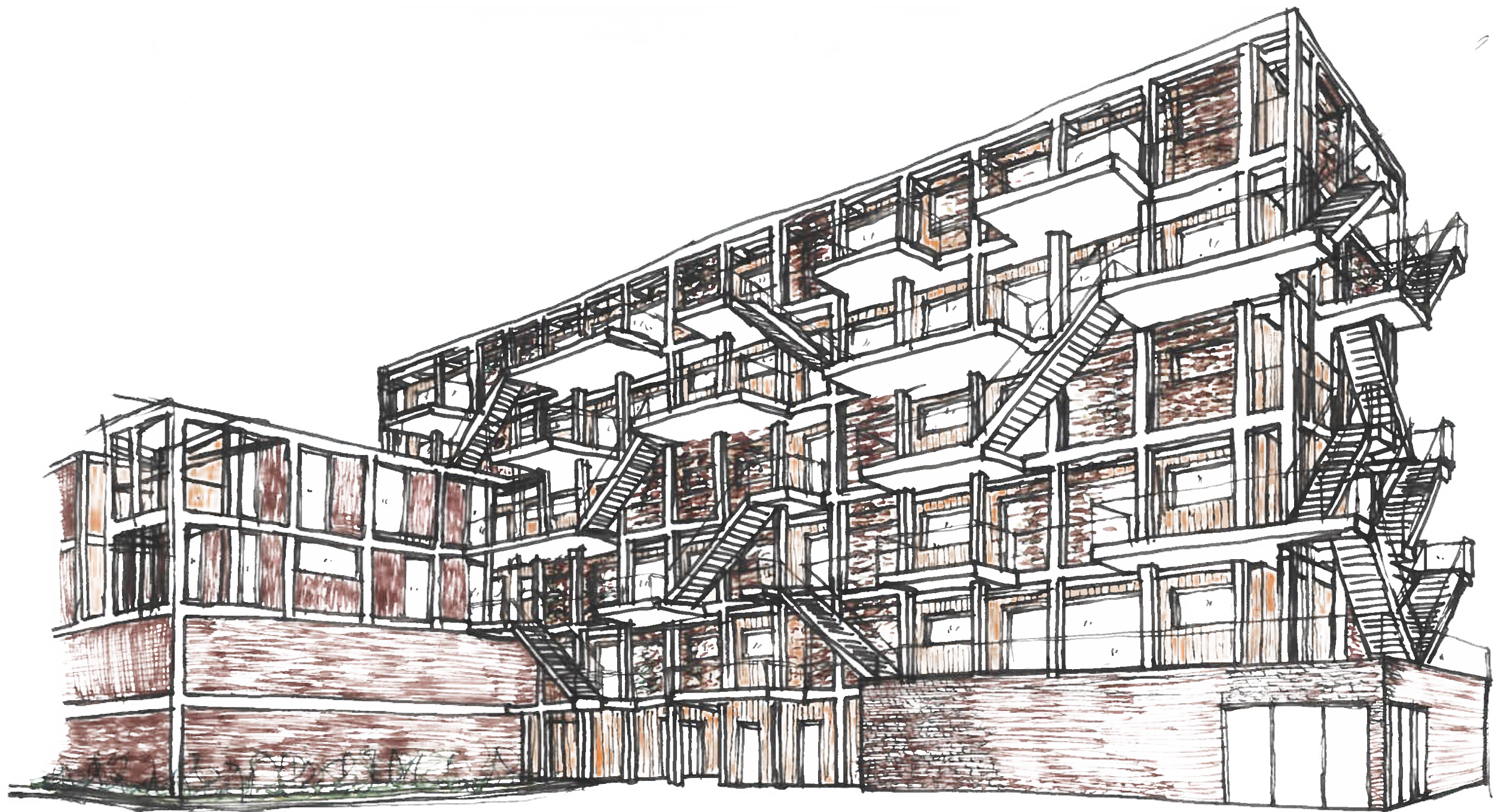
The blocks square



grand floor open
towards the
square

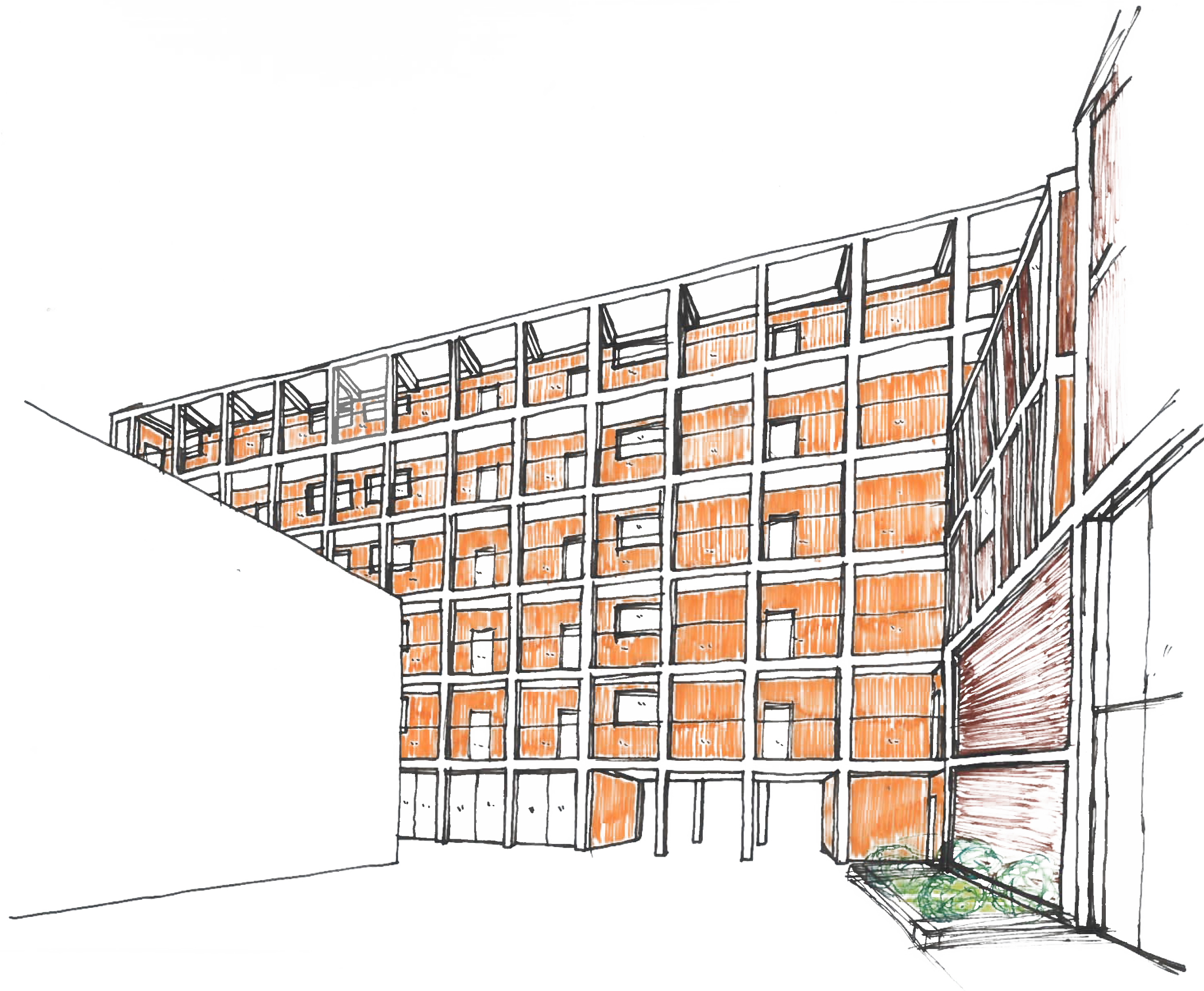
FACADE

The slab front



FACADE

The slab backside



BUILDING TECHNOLOGY

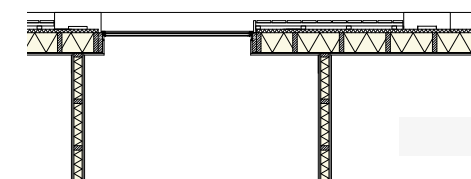
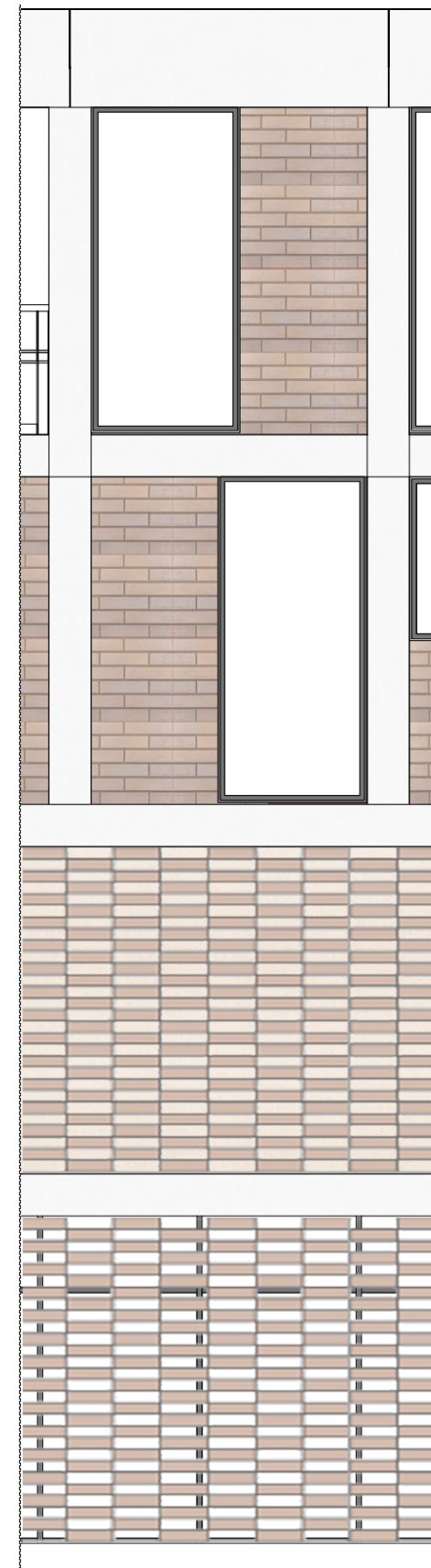
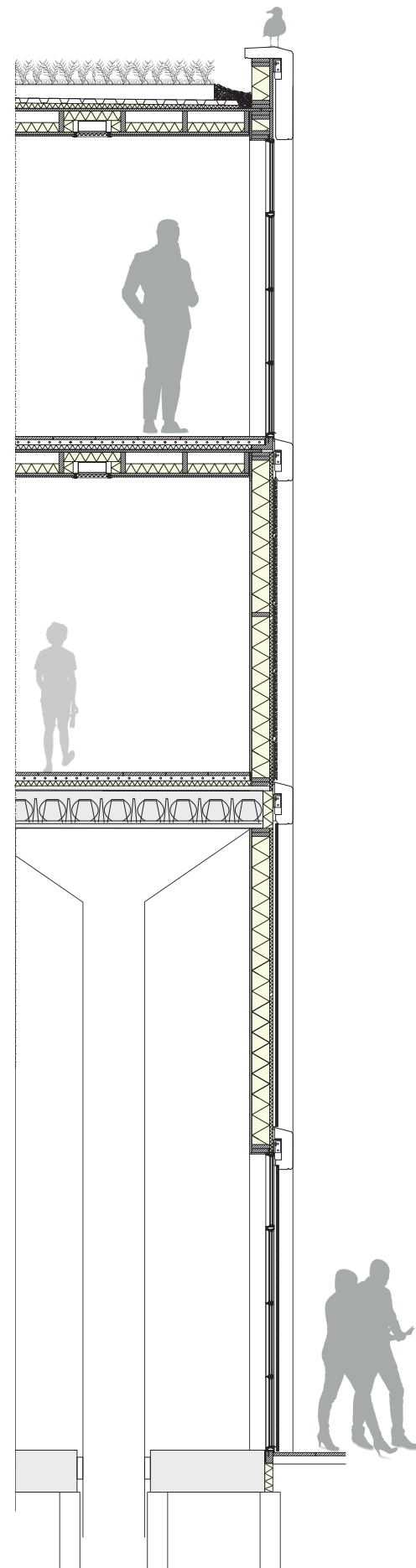
FACADE

Fragment



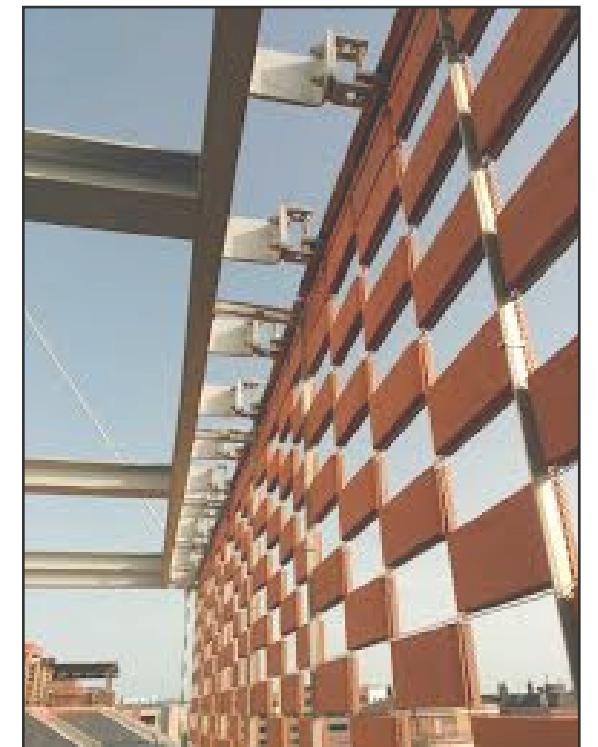
Cobiax floor

22% less energy
100% recycled plastic
35% less concrete



Aberson A-Brick

75% less clay

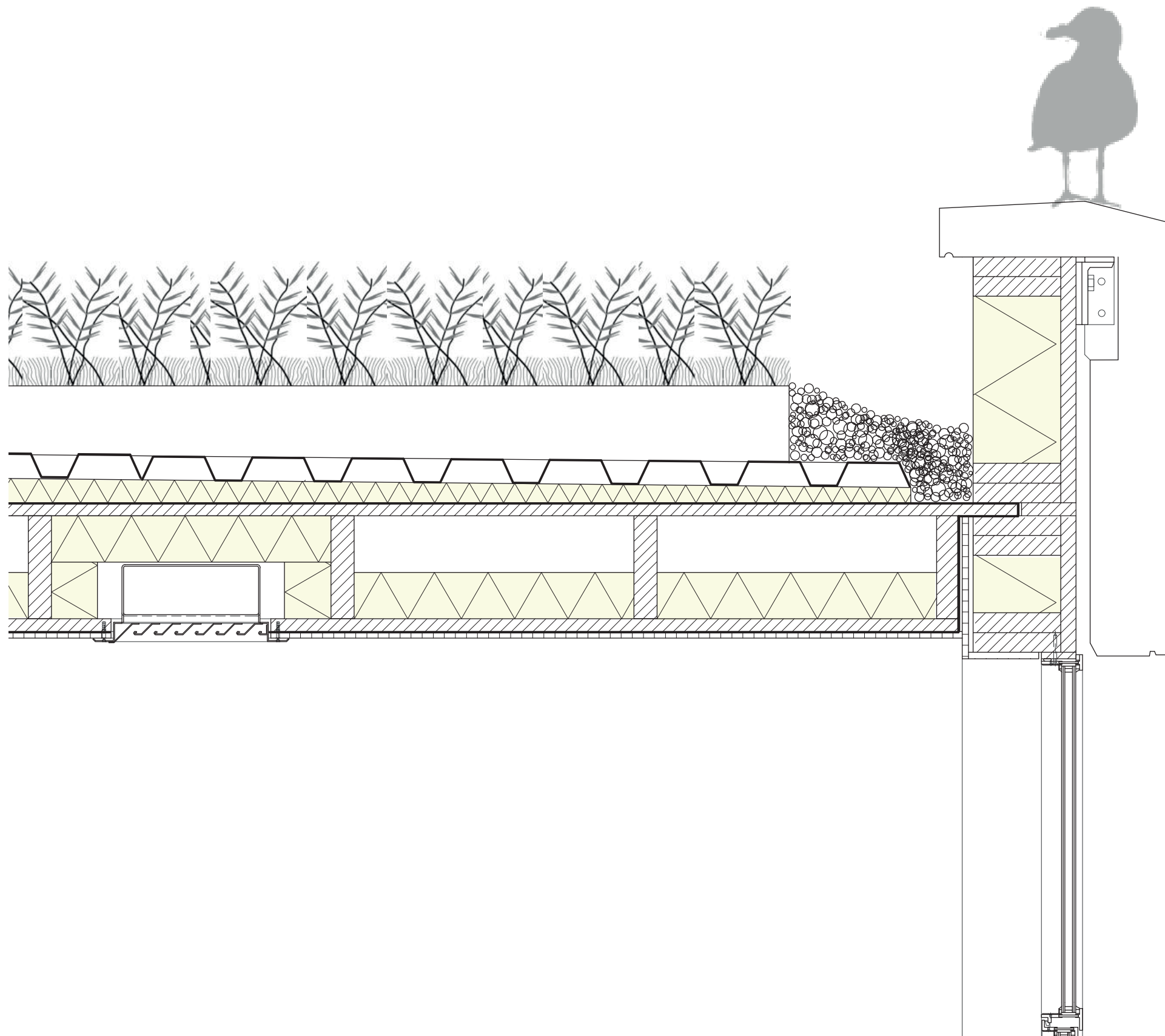


Flex brick

Demountable
Reusable

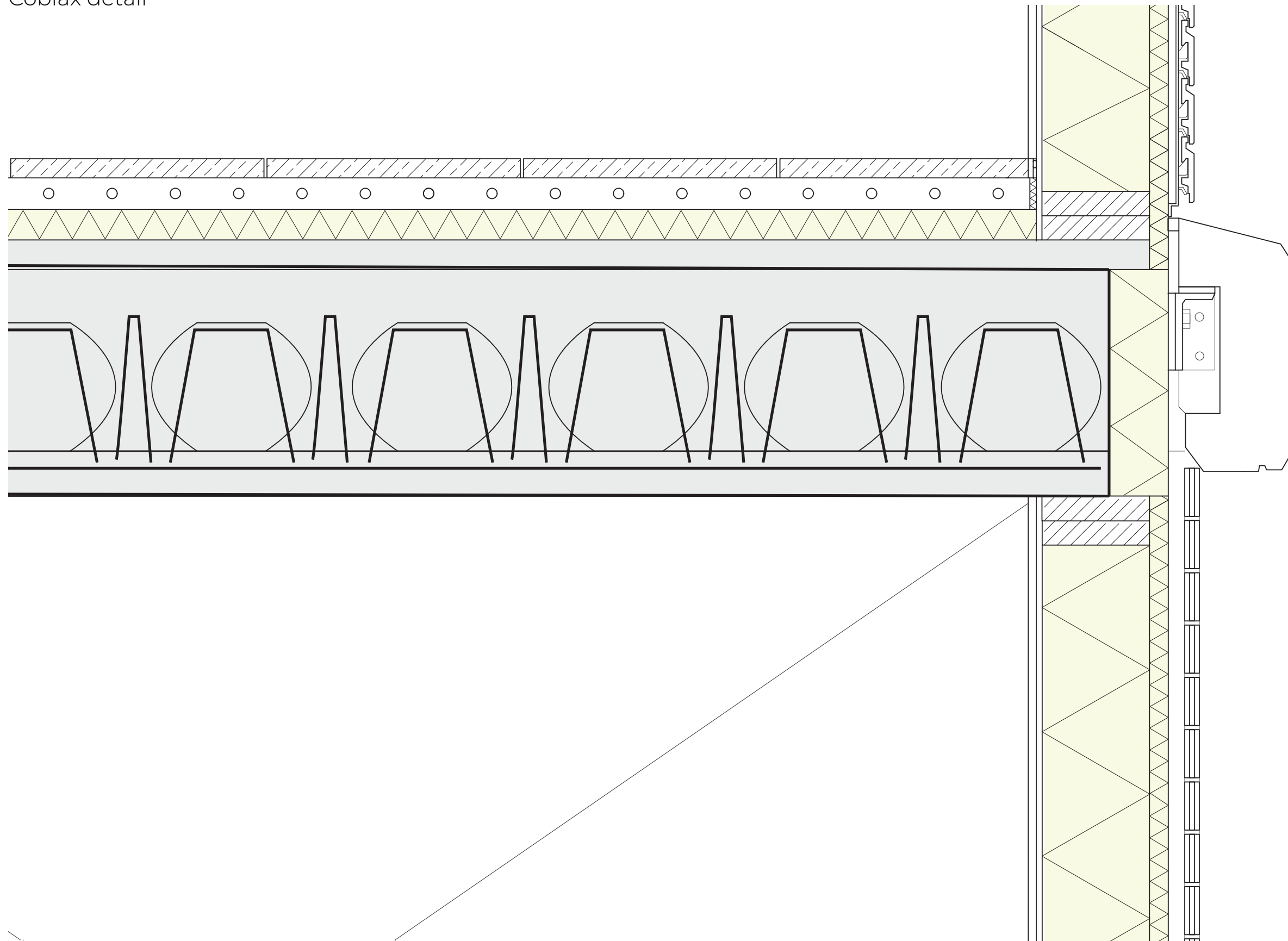
FACADE

Roof detail



FACADE

Cobiax detail

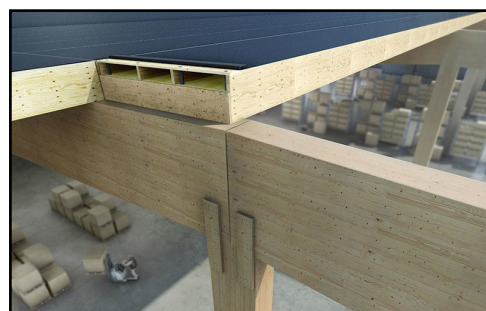


CONSTRUCTION

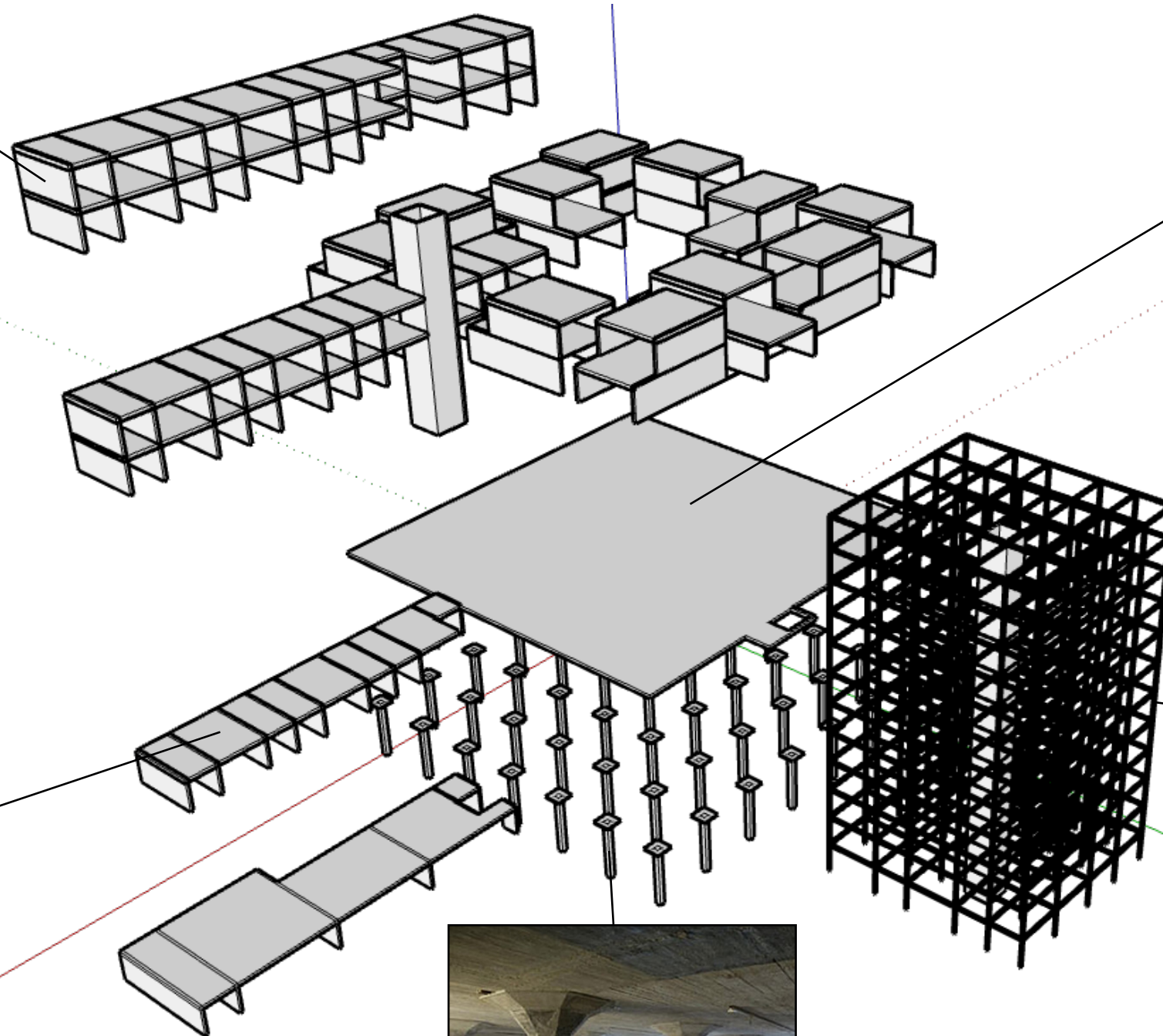
Axo



Wooden frame



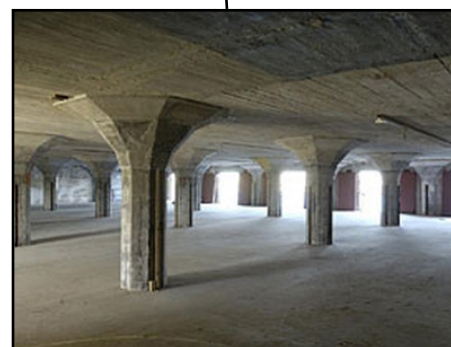
Kerto ripa



Cobiax floor



Wooden columns & beams



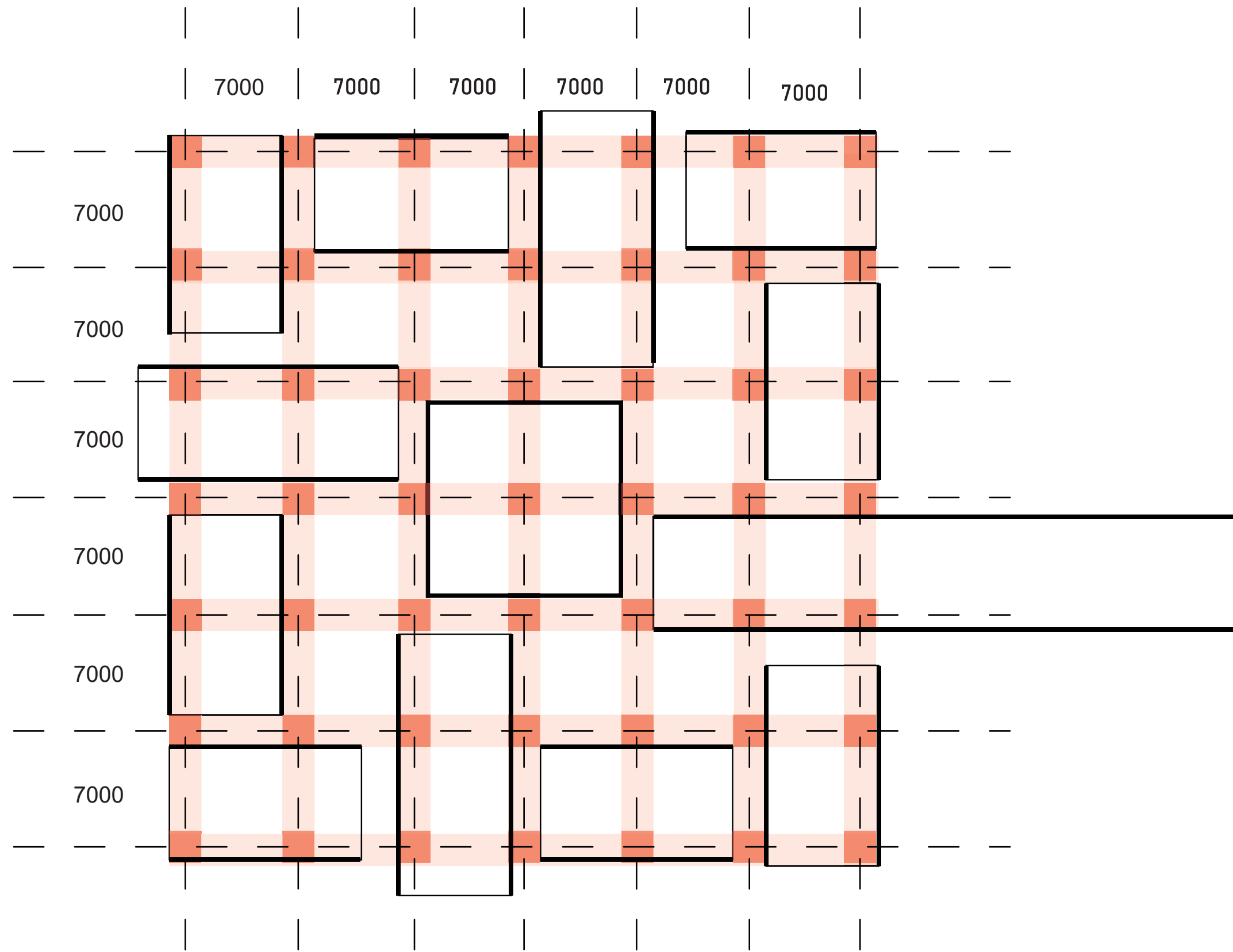
Mushroom columns

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BUILDING TECHNOLOGY

CONSTRUCTION

The blocks

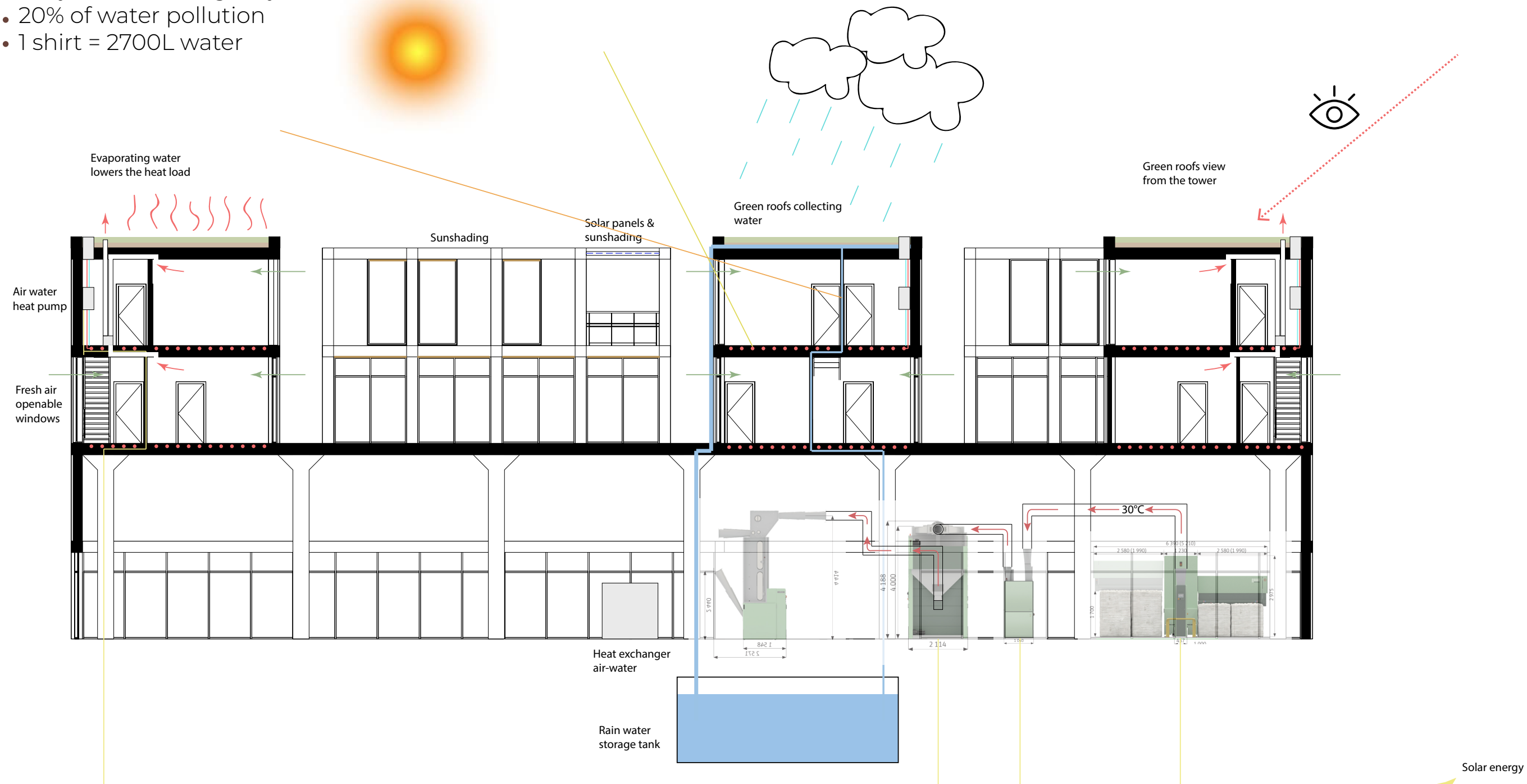


CLIMATE

Section

Textile industry

- 10% of global Co2 emissions
- Only 1% of clothing recycled
- 20% of water pollution
- 1 shirt = 2700L water



CREATING A SOCIALLY ROBUST LANDSCAPE

