

# VELOCITY

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towards a healthy living environment

set of Drawings

# RESEARCH | BICYCLE CITY

CAN WE USE THE BICYCLE TO STIMULATE MOVEMENT IN AND AROUND THE BUILDING?

WHY CYCLING?

1. CAR USE CAUSES CONGESTION IN CITIES

2. IMPROVES HEALTH

3. 0 EMMISION

**FASTER**

**HEALTHIER**

**SUSTAINABLE**

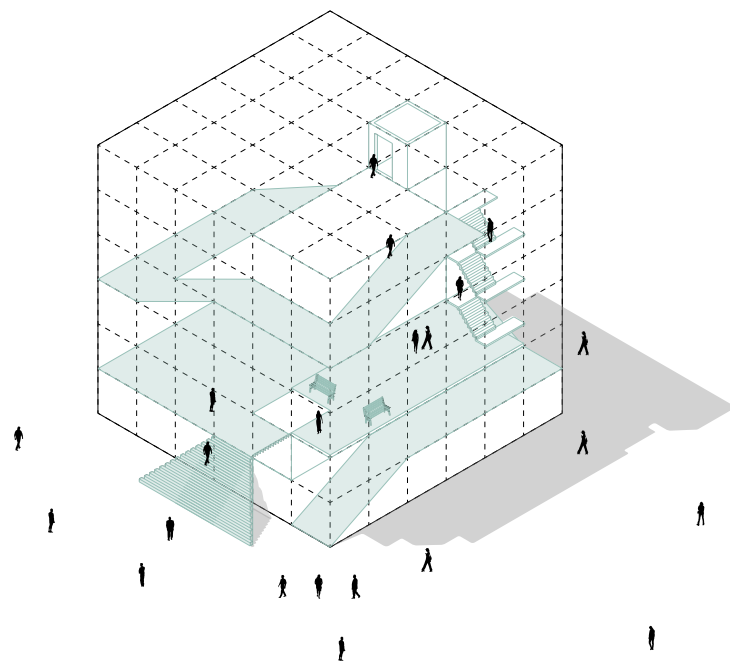


# RESEARCH | ACTIVE DESIGN

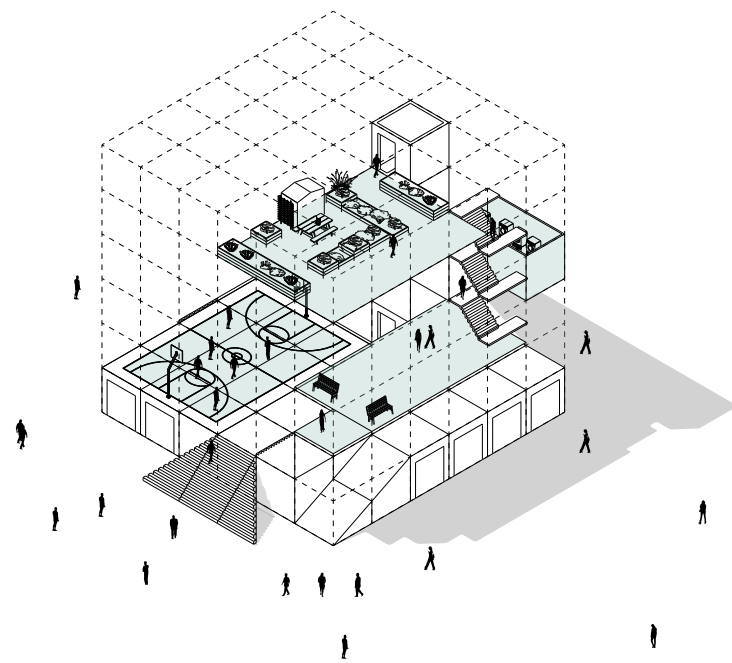
HOW TO STIMULATE PHYSICAL ACTIVITY IN AND AROUND THE BUILDING?

FOUR DOMAINS OF ACTIVE DESIGN

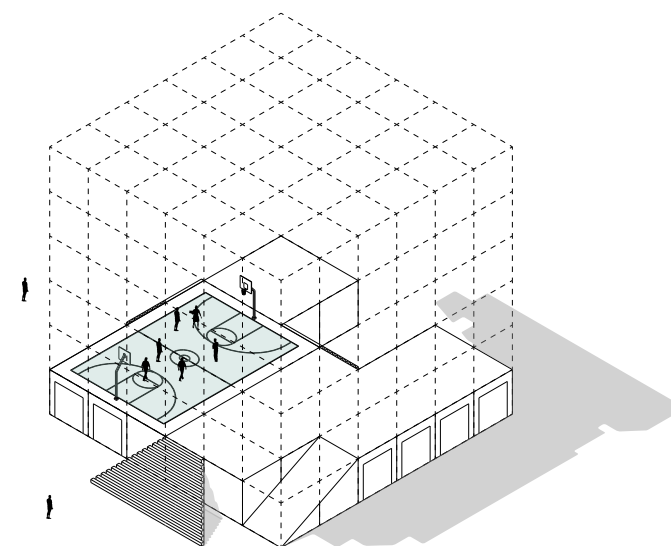
1. CIRCULATION SYSTEM



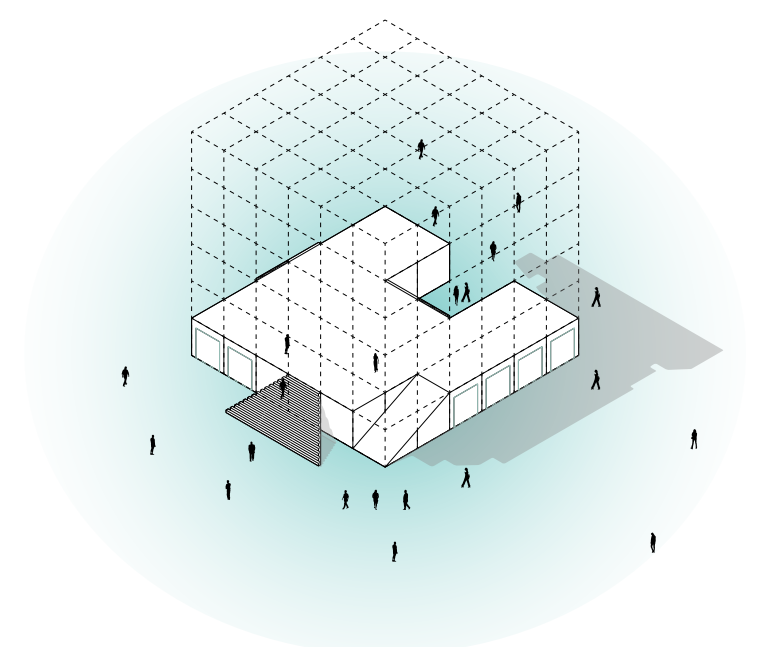
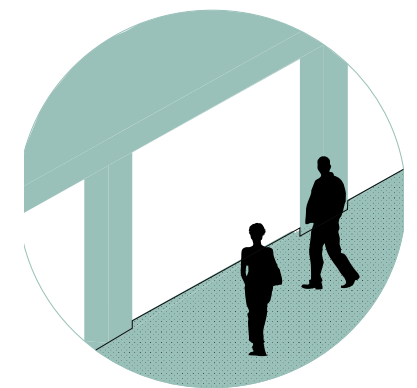
2. DESTINATIONS



3. ACTIVITY PROGRAM

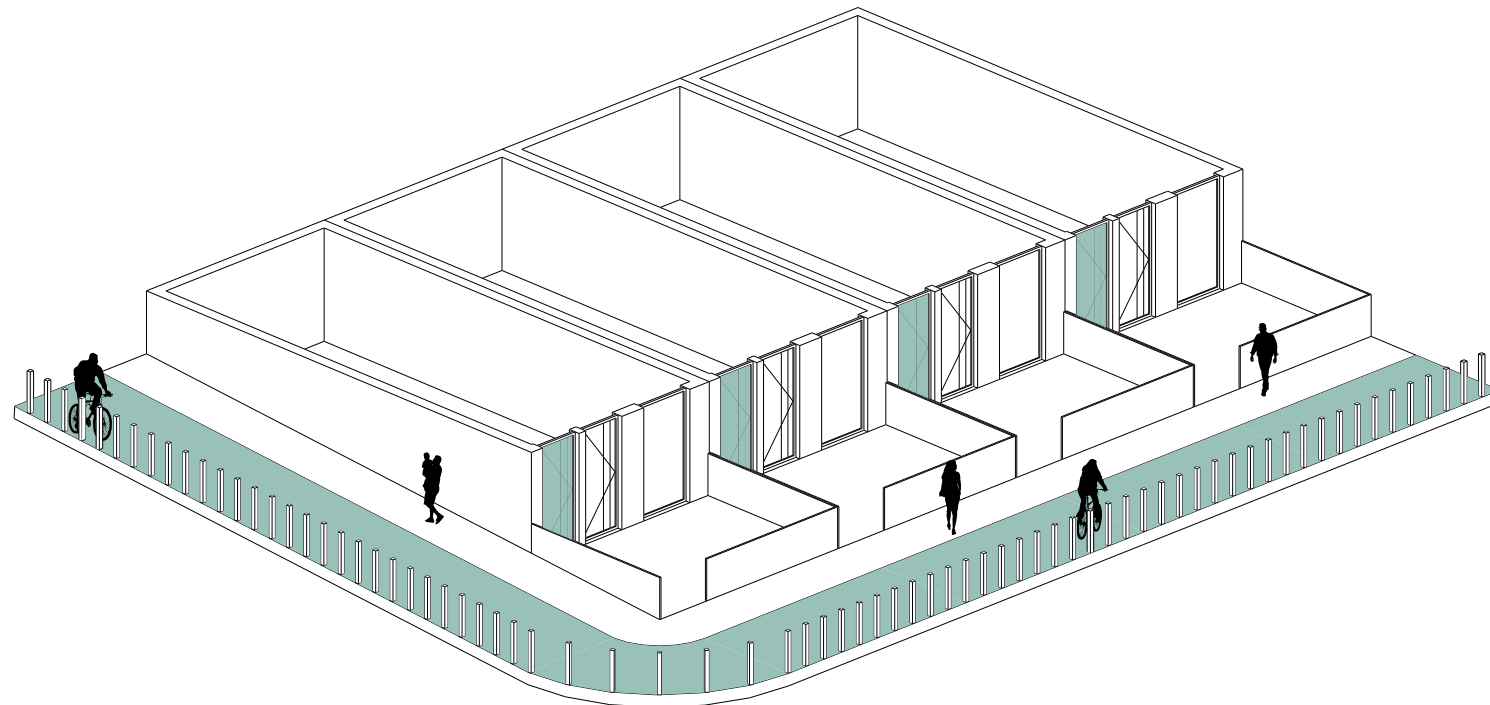


4. BUILDING SURROUNDINGS



# RESEARCH | ACTIVE DESIGN

## ADDING A FIFTH DOMAIN

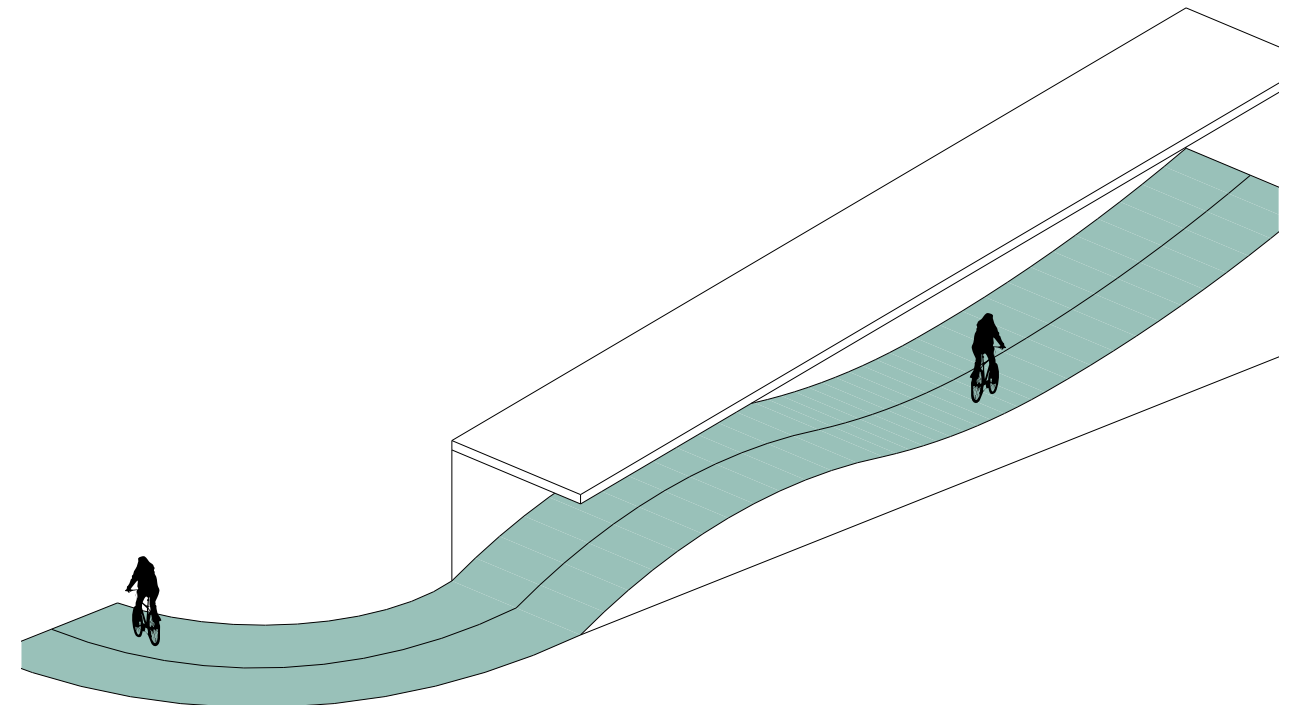


RELATION BETWEEN DWELLING AND CYCLIST

Make bicycles handy things to use within buildings

Let the bike be the quickest way to leave home

Make peace between bikes and pedestrians



SAFETY

Sculpt the terrain to control cyclists' speed

# RESEARCH | TARGET GROUPS

## TARGET GROUP

people with an affinity with a healthy lifestyle and cycling.

Because health can be a problem within any age category, there is a suitable home for every type of family composition



one person studios

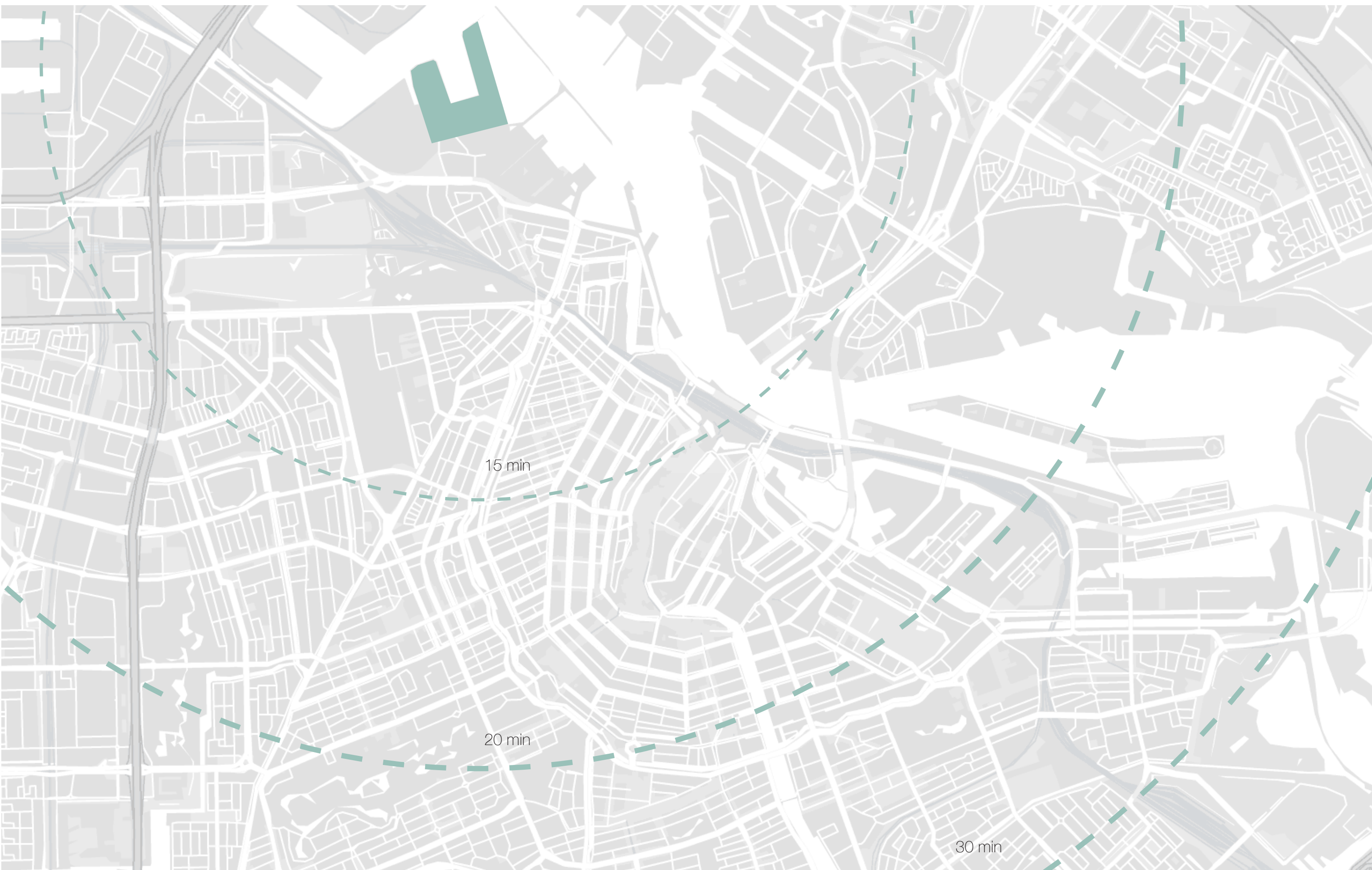


2 - 3 rooms apartments

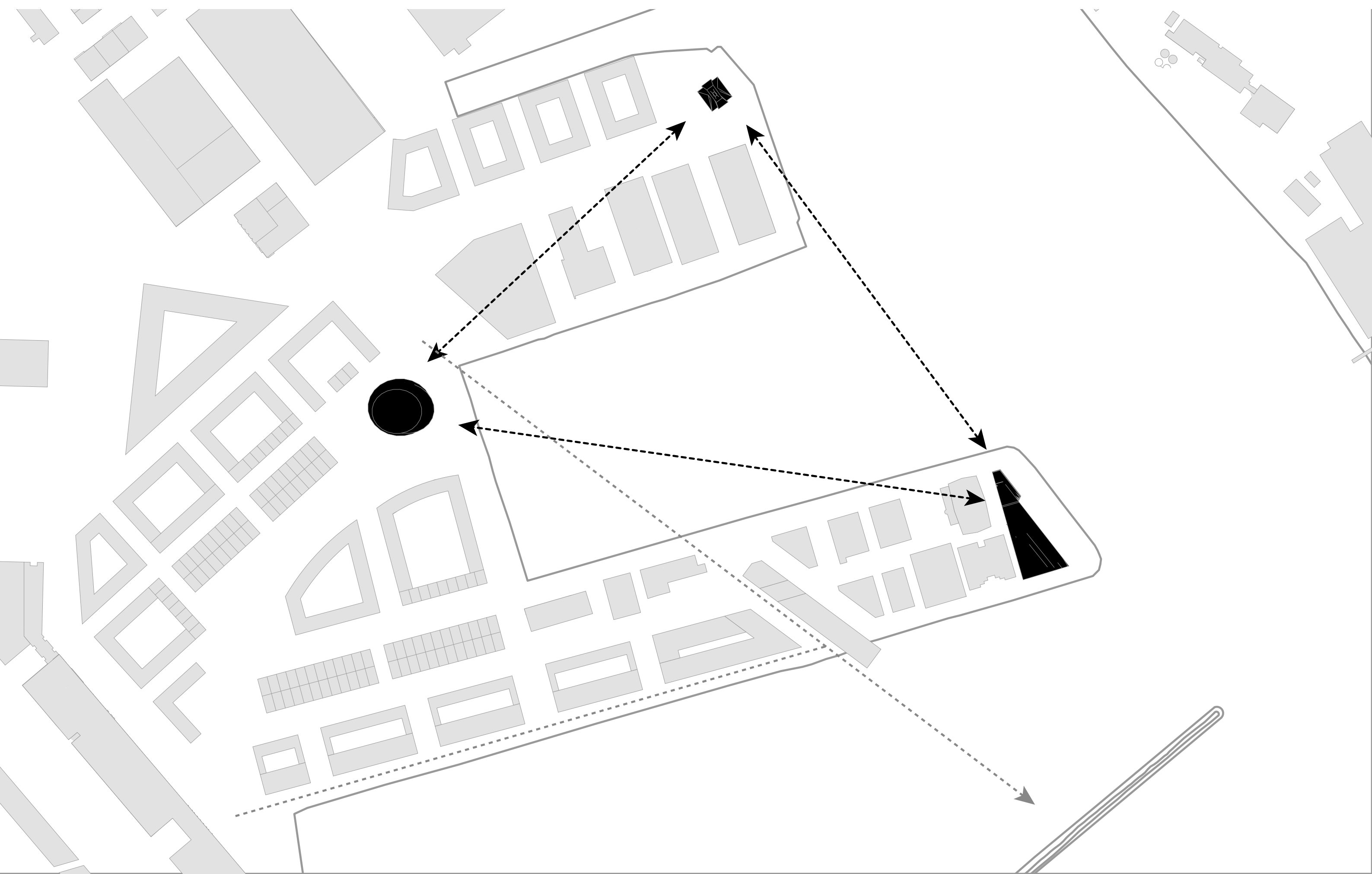


family house / maisonette

## DESIGN | LOCATION

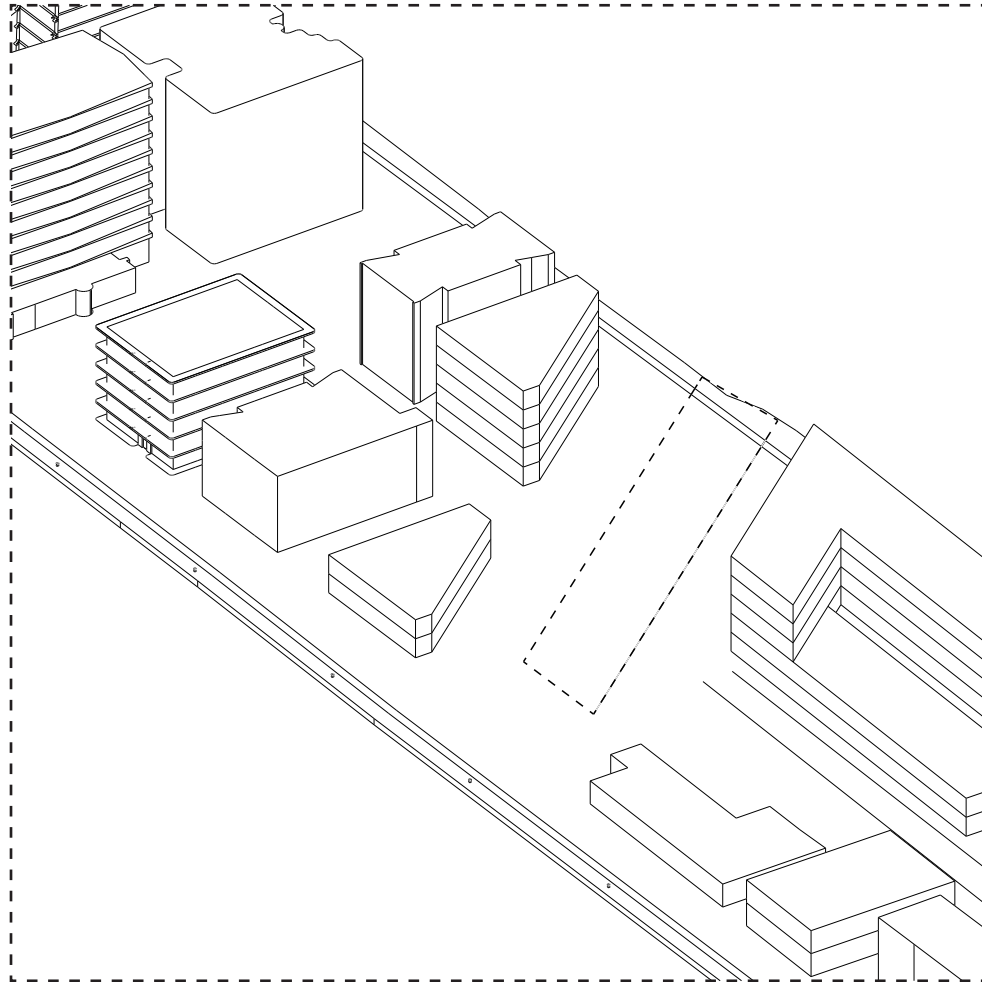


**DESIGN |** LOCATION

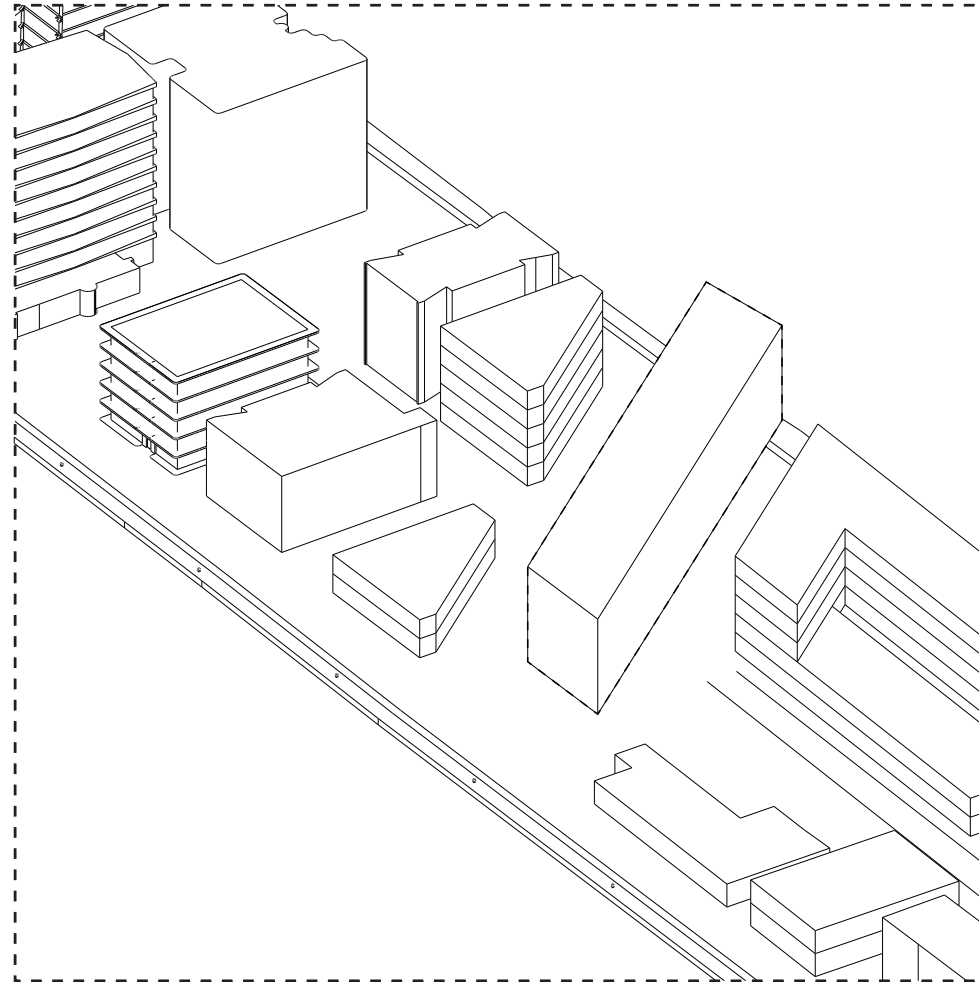




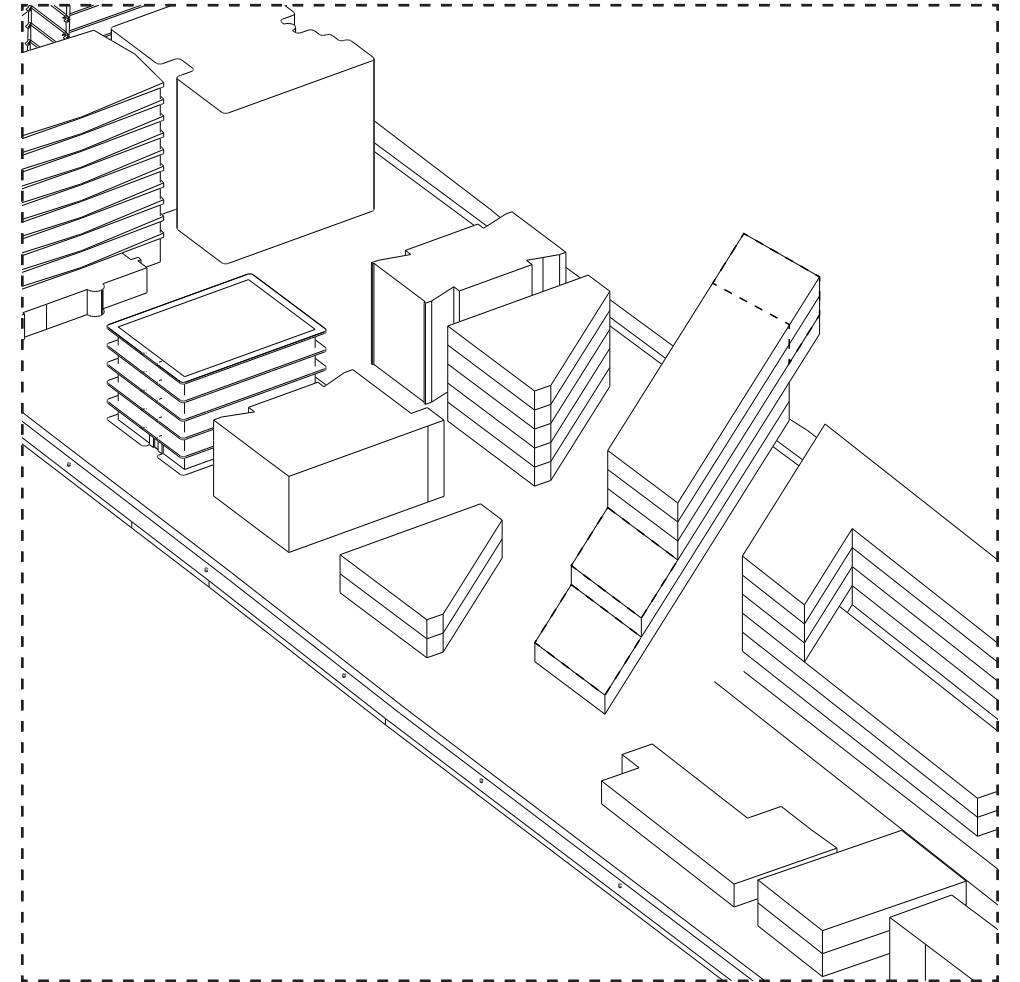
# DESIGN | LOCATION



1. plot

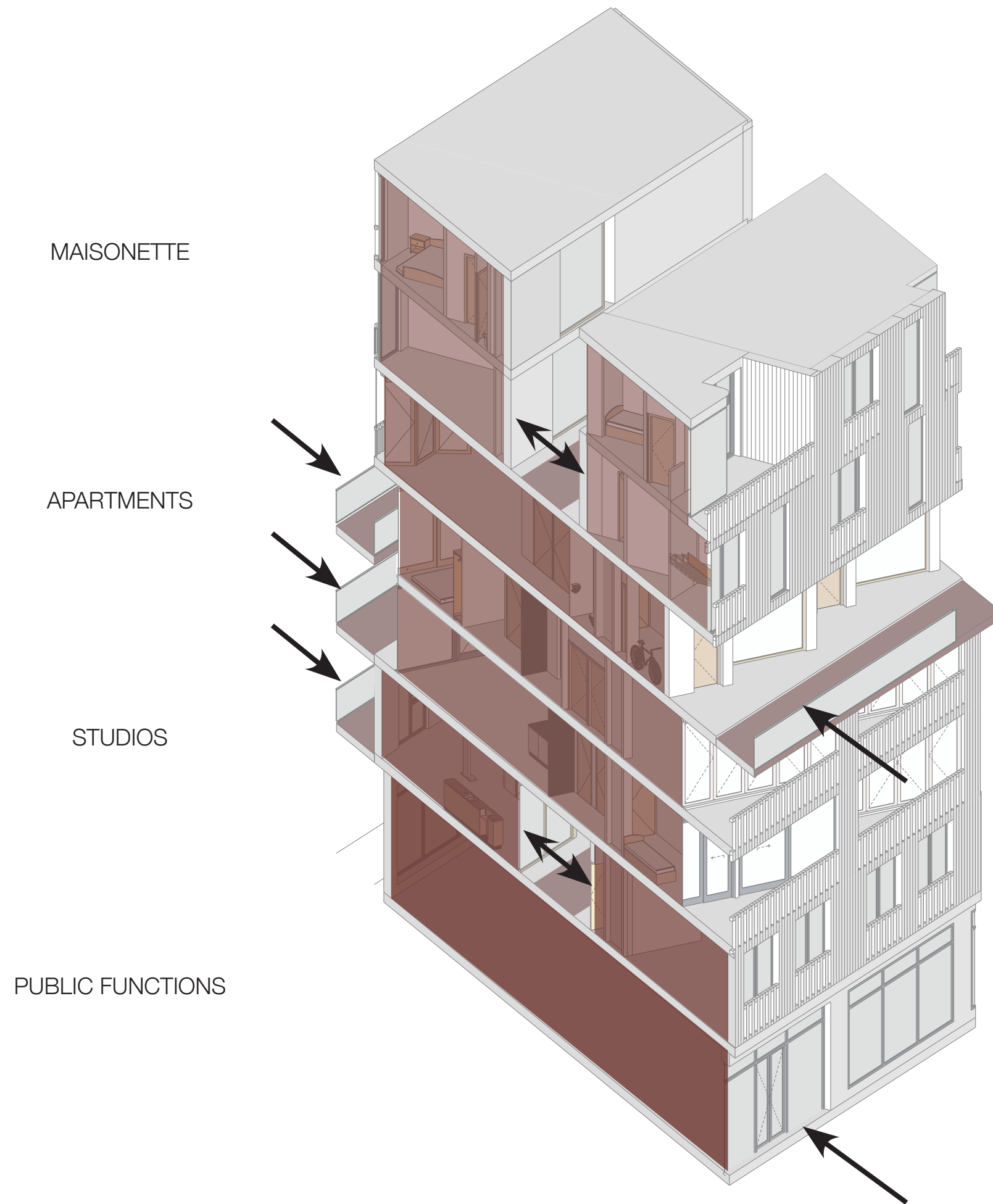


2. volume

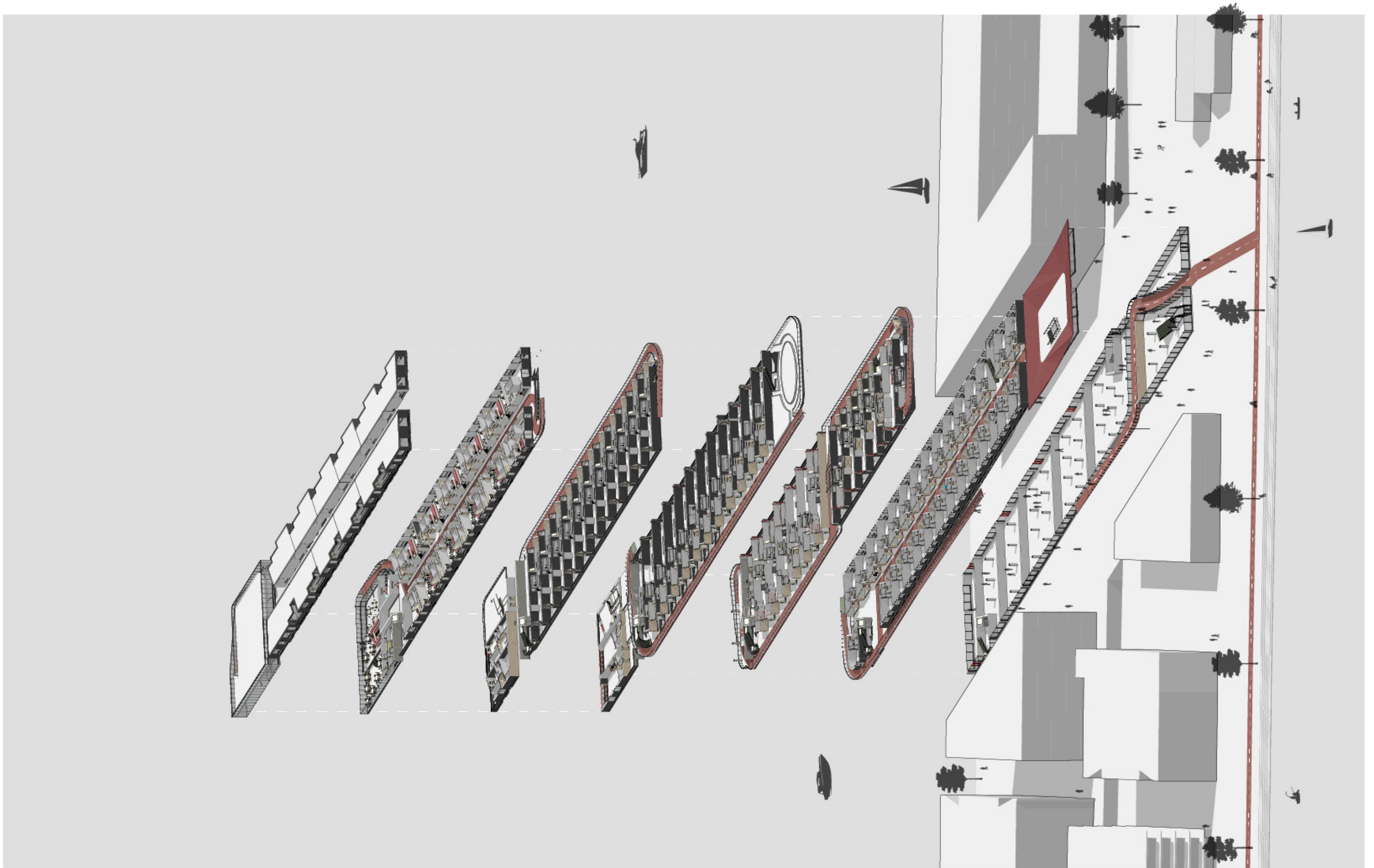


3. using roofs + cantilever

# DESIGN | ACCESS SYSTEM



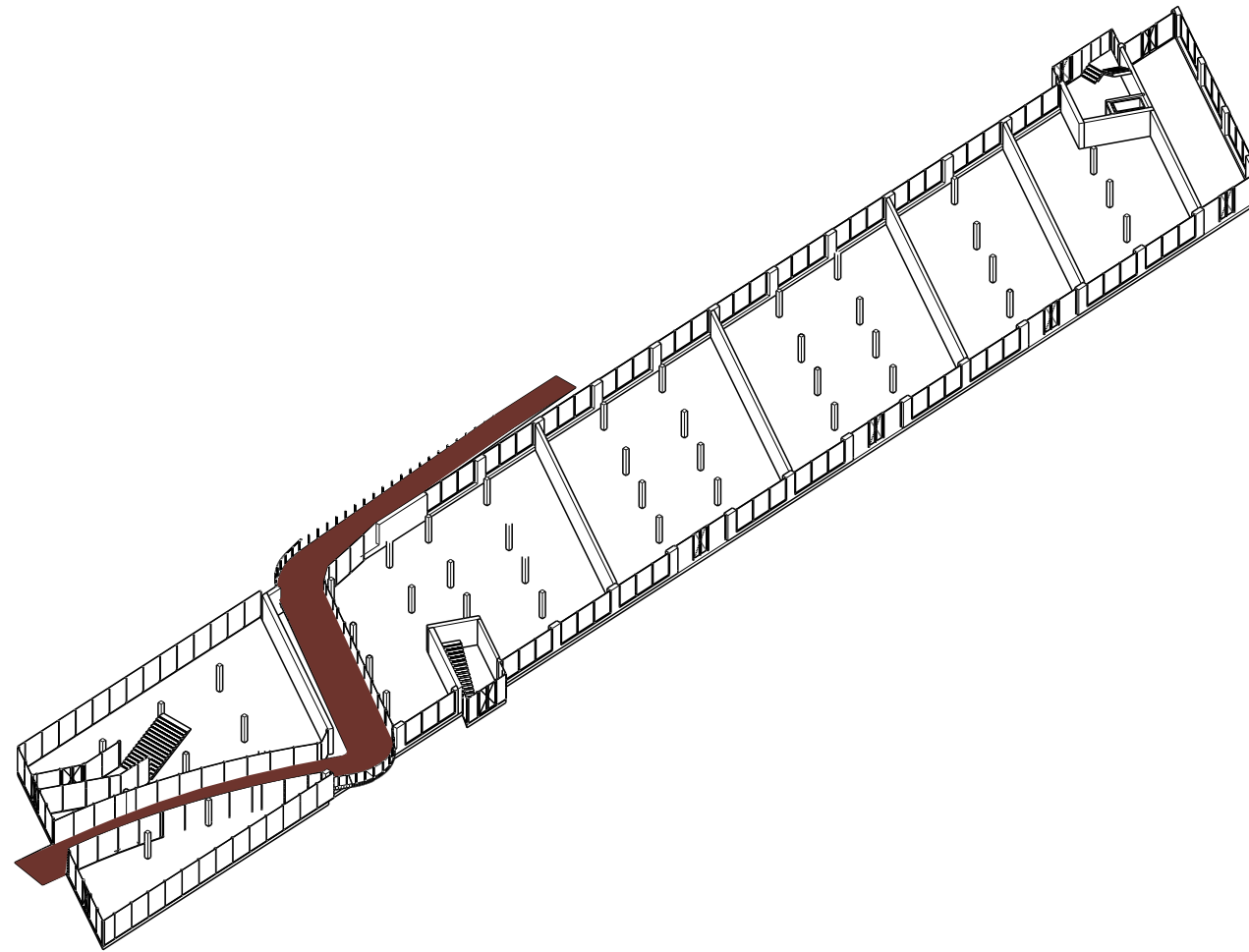
## DESIGN | ROUTING



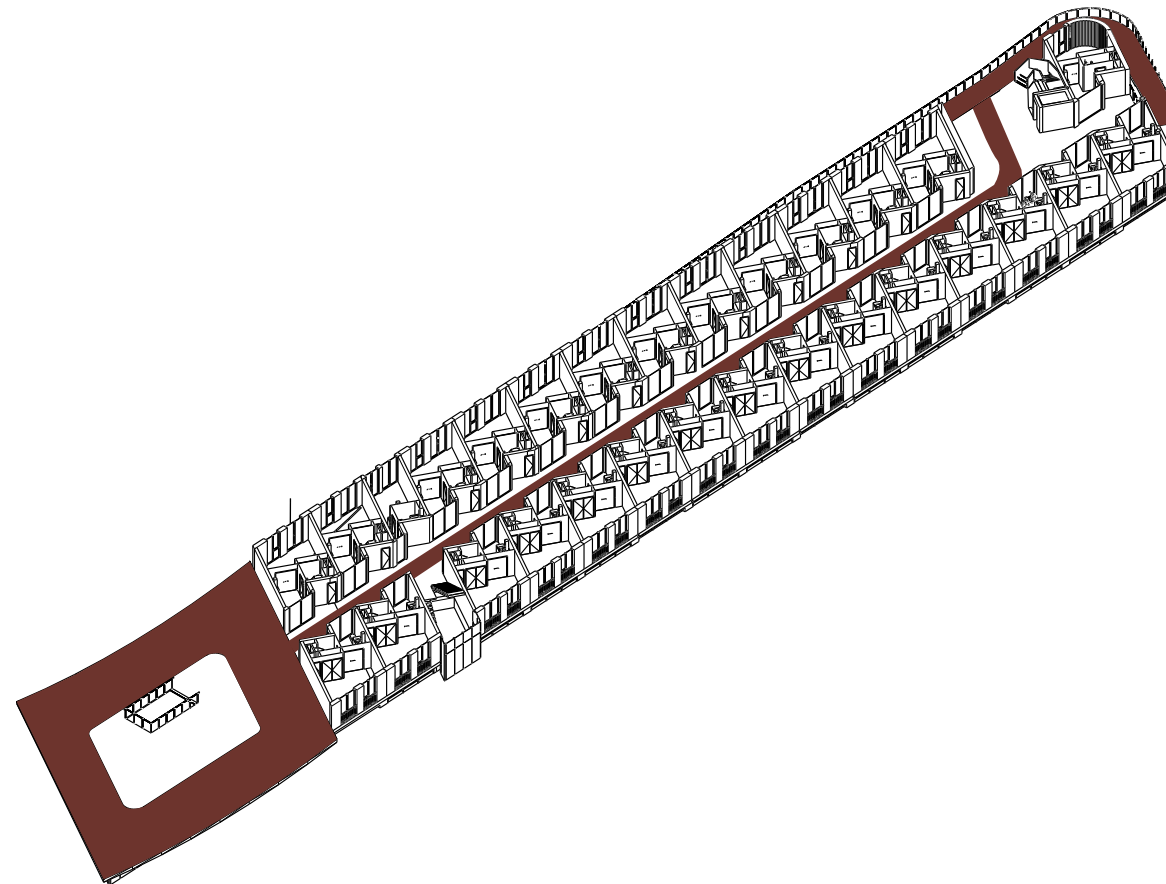


# DESIGN | ROUTING

bicycle path ground floor

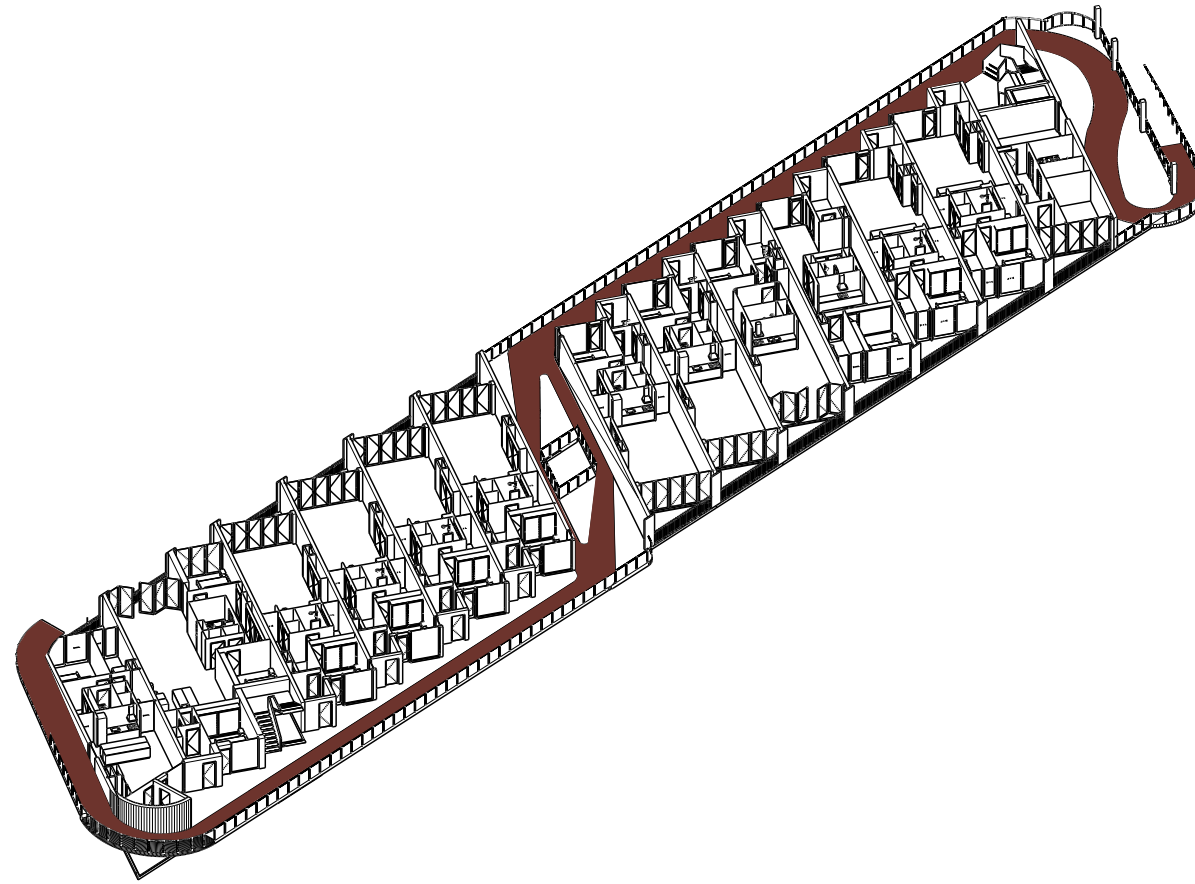


bicycle path 1th floor

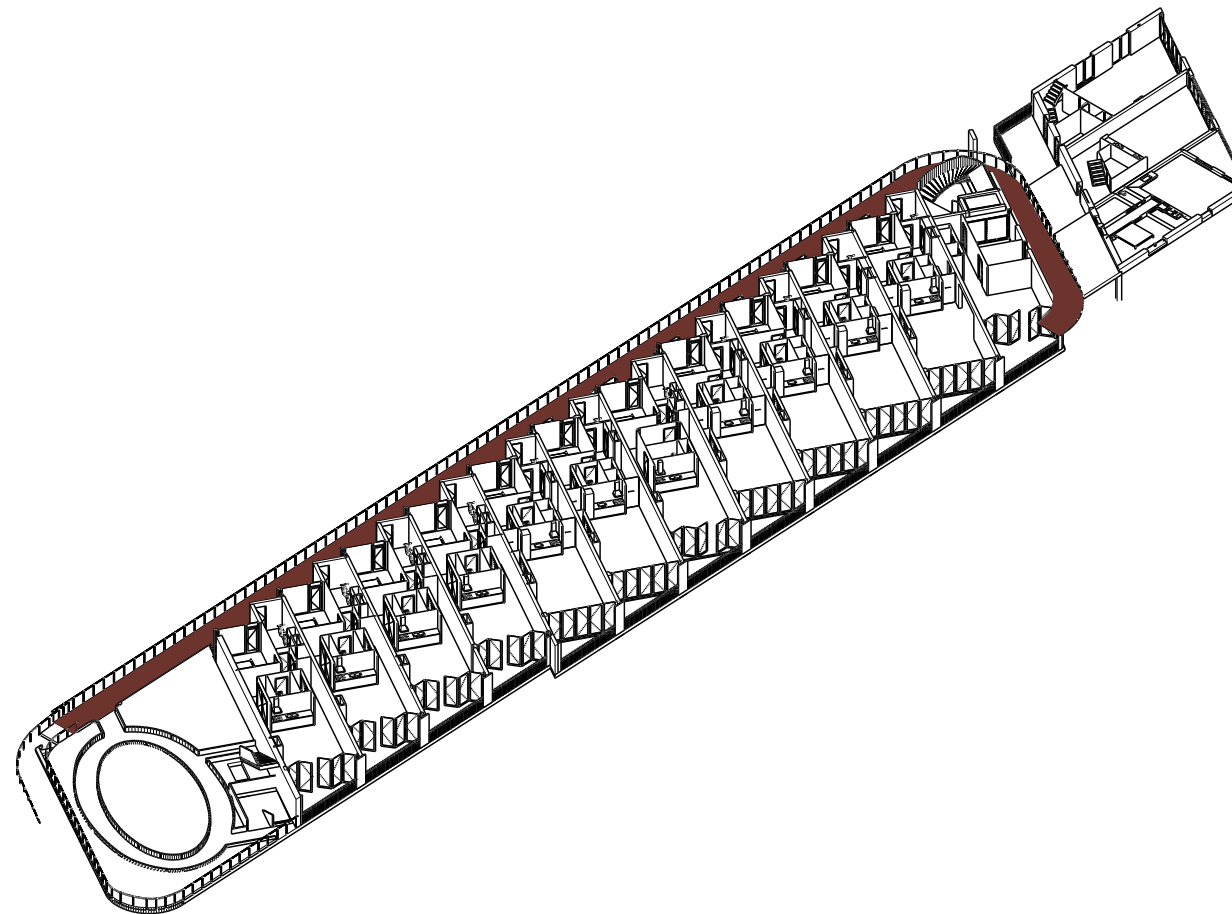


# DESIGN | ROUTING

bicycle path 2nd floor

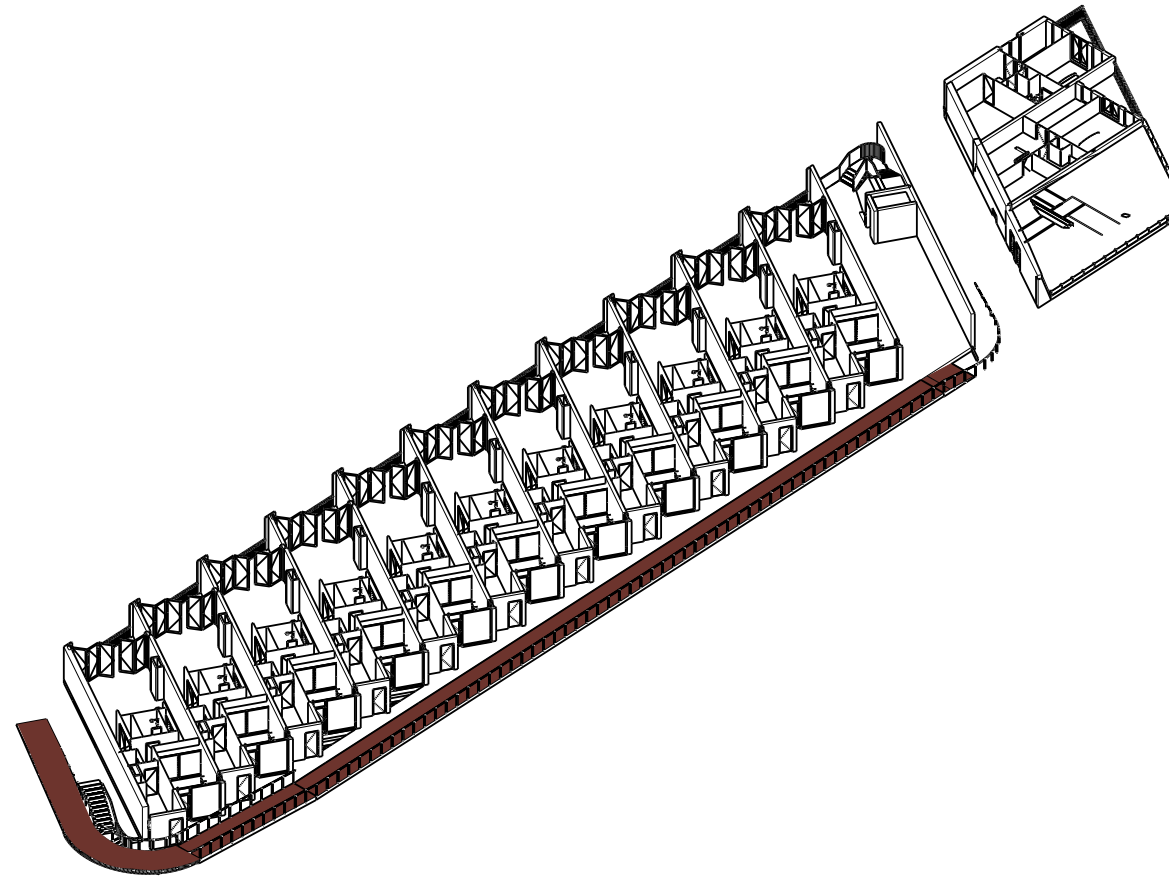


bicycle path 3th floor

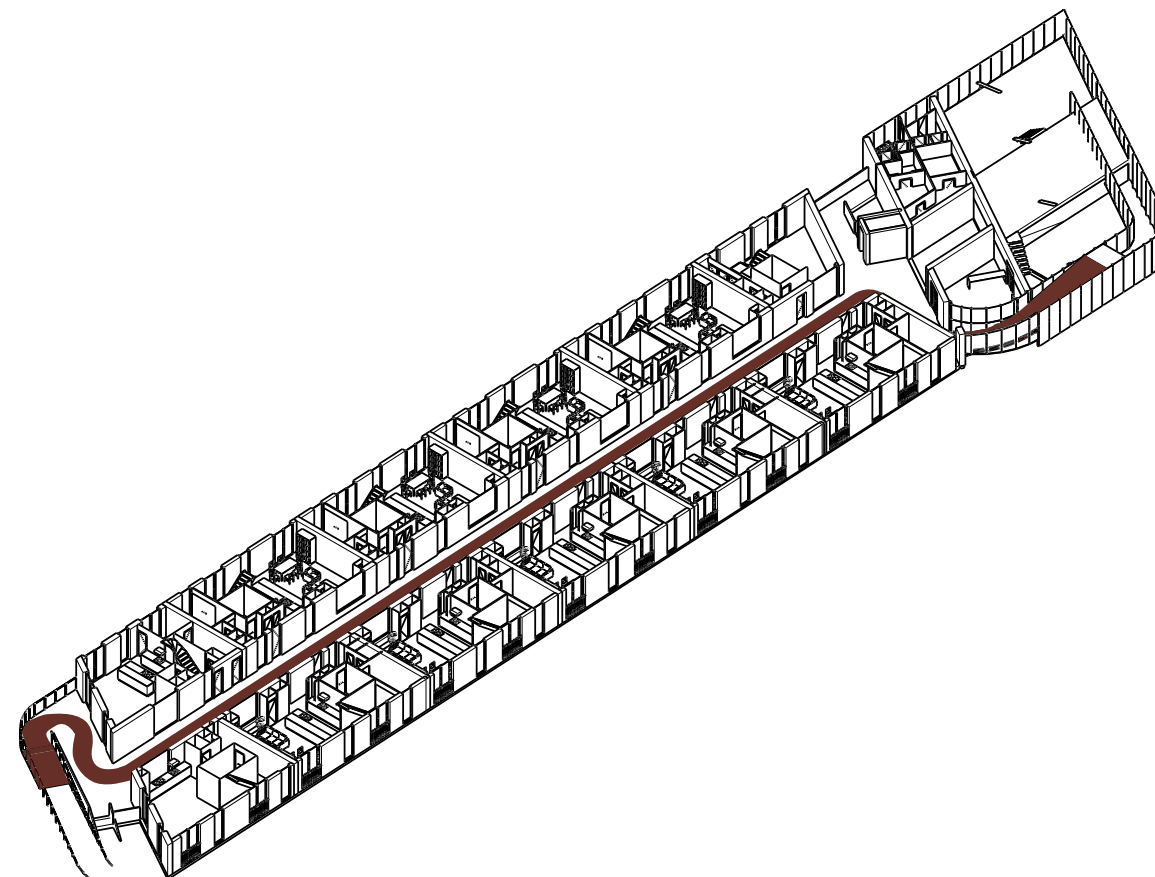


# DESIGN | ROUTING

bicycle path 4th floor

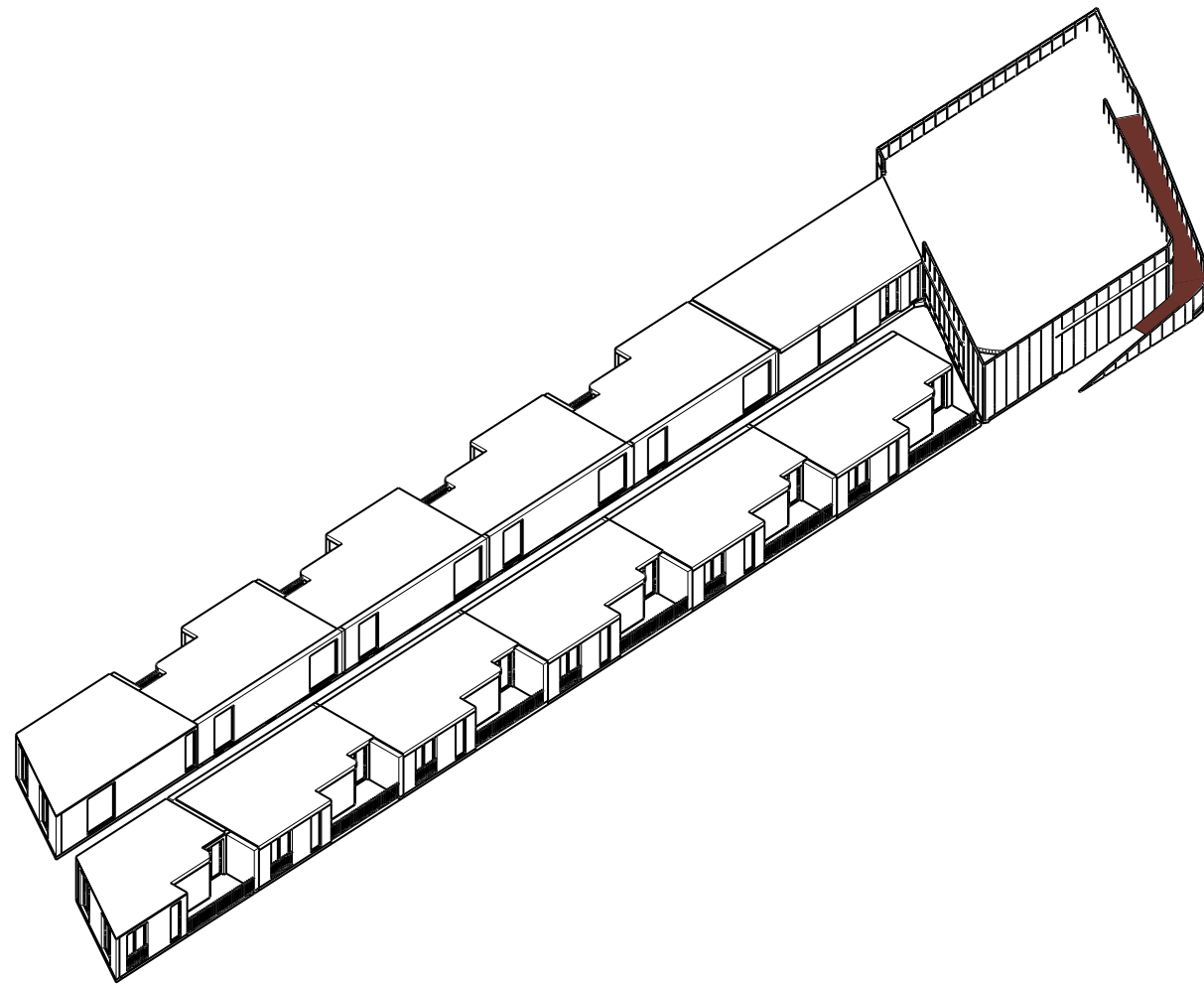


bicycle path 5th floor



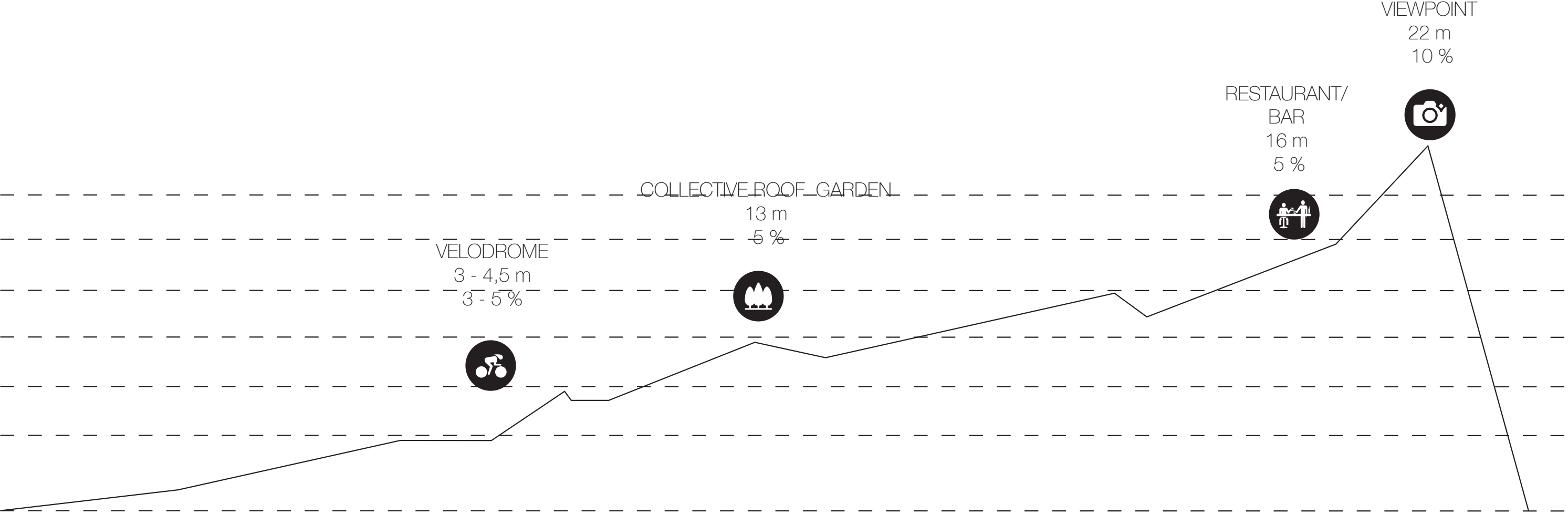
# DESIGN | ROUTING

bicycle path 6th floor



# DESIGN | CONCEPT

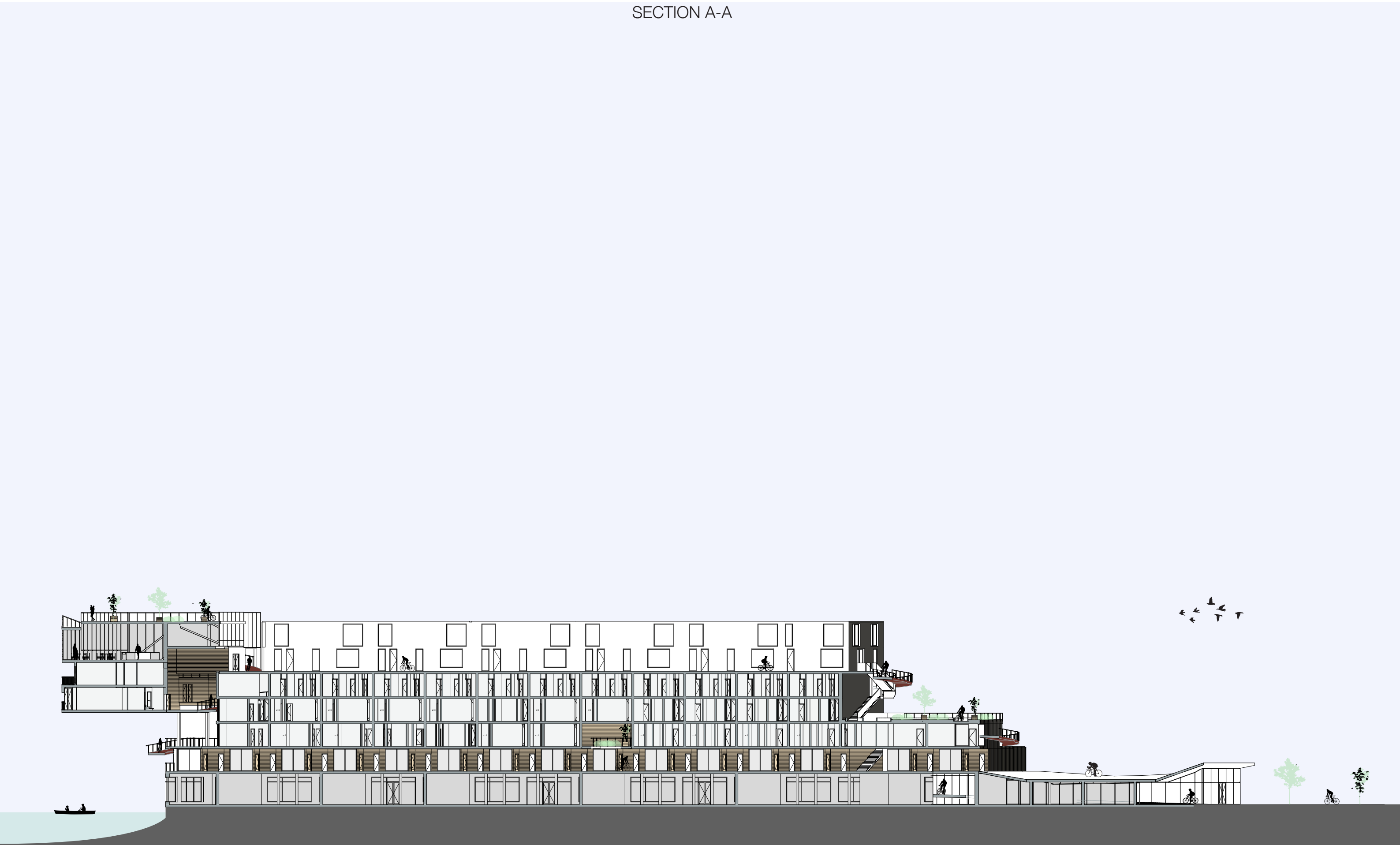
bonjour et bienvenue au départ du tour de france au col du velo





DESIGN | SECTION

SECTION A-A



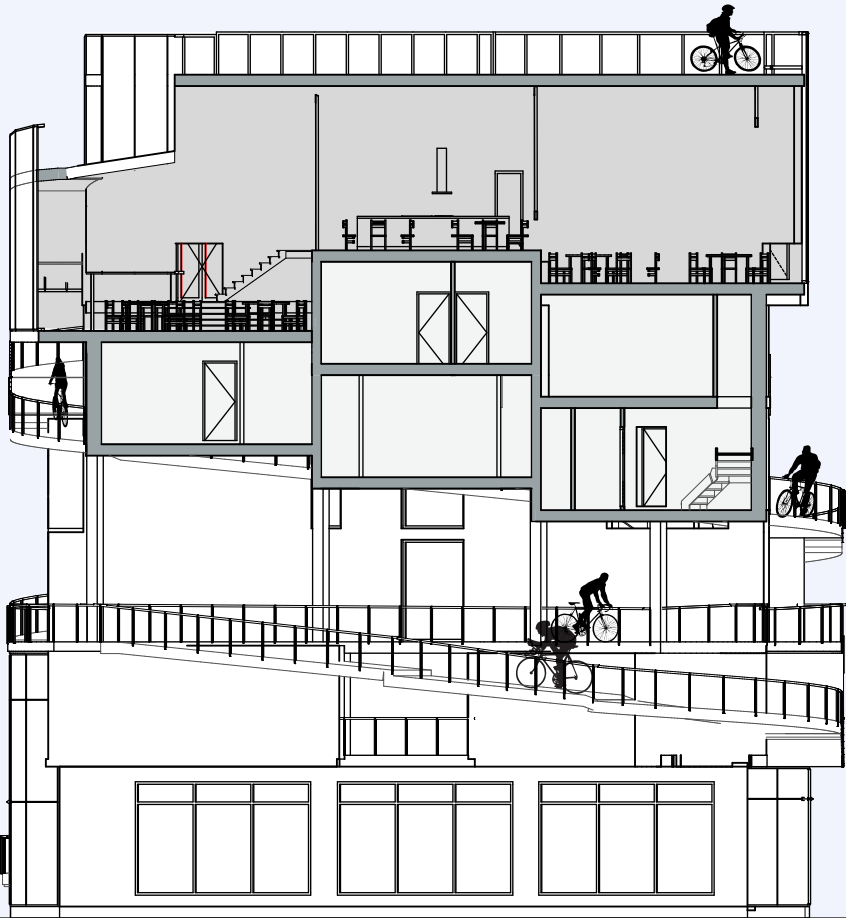
DESIGN | SECTION

SECTION B-B



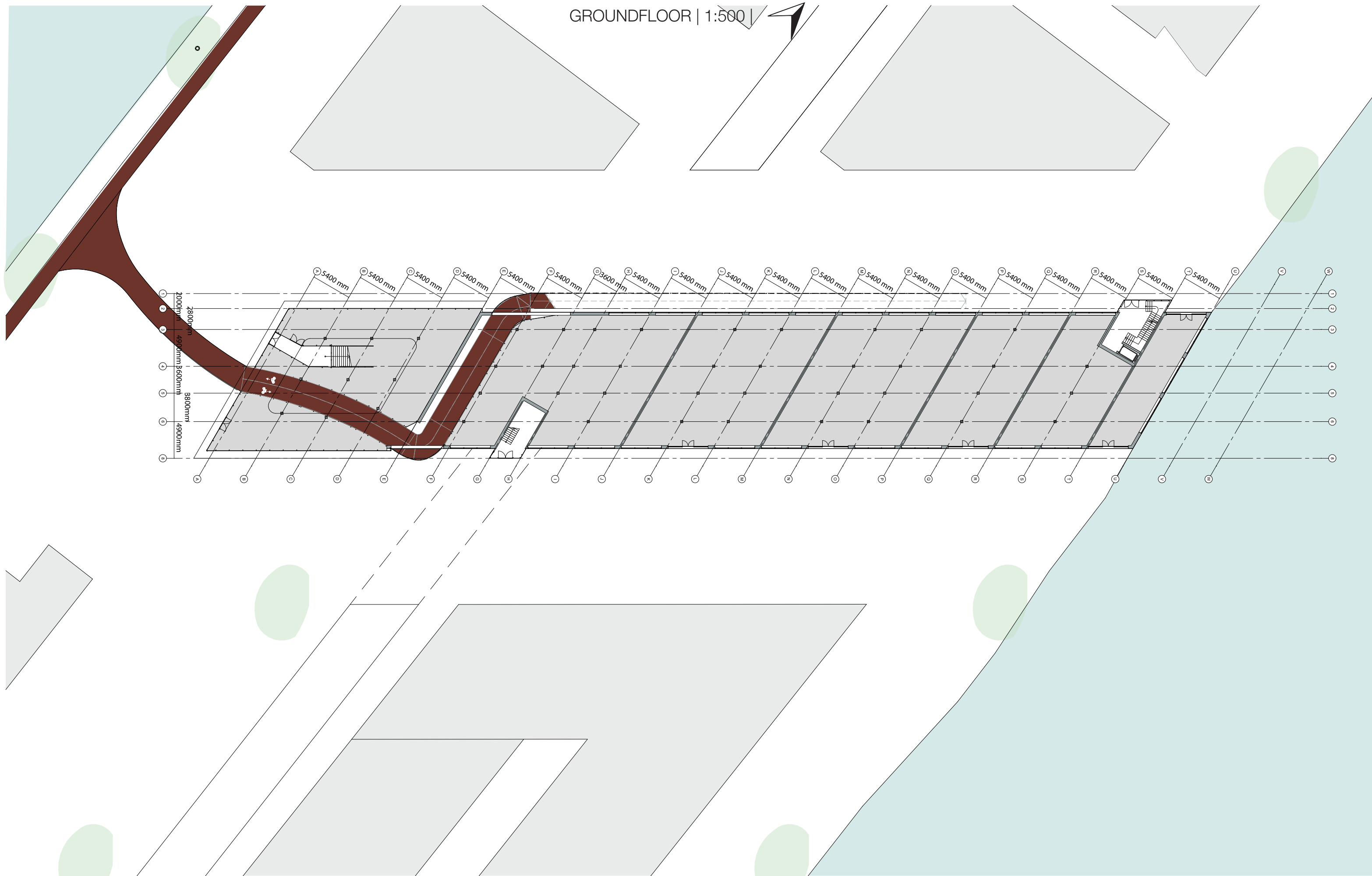
DESIGN | SECTION

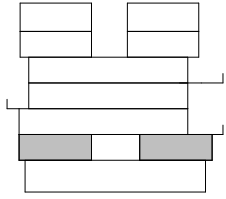
SECTION C-C



# DESIGN | FLOORPLANS

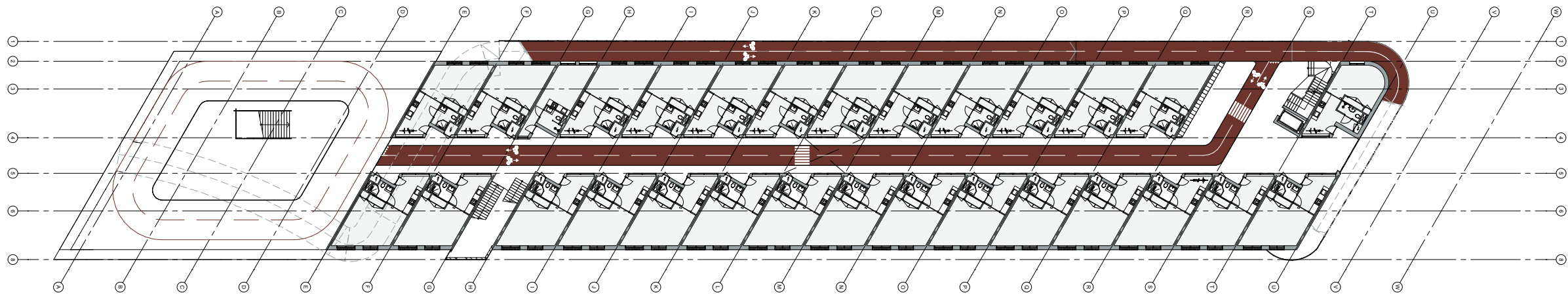
GROUND FLOOR | 1:500

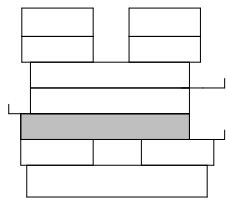




# DESIGN | FLOORPLANS

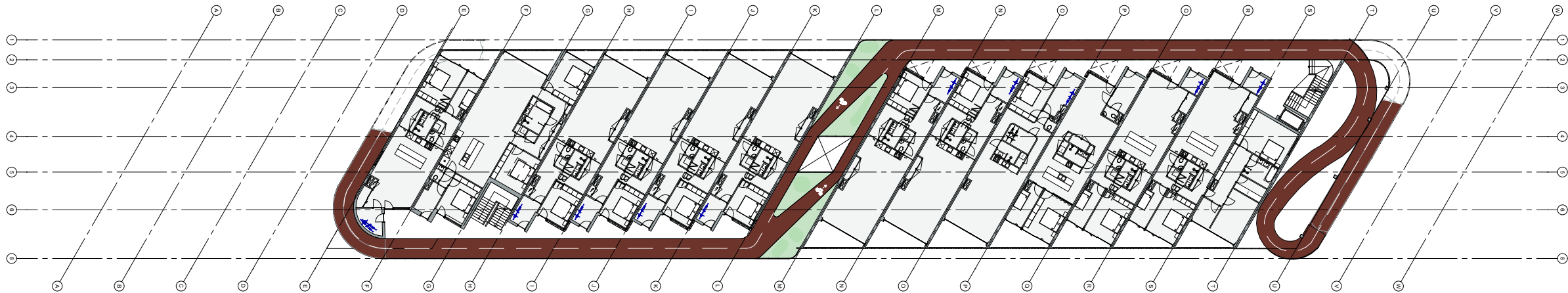
1TH FLOOR | 1:500 |



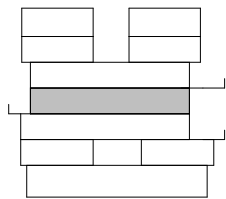


DESIGN | FLOORPLANS

2nd FLOOR | 1:500 |

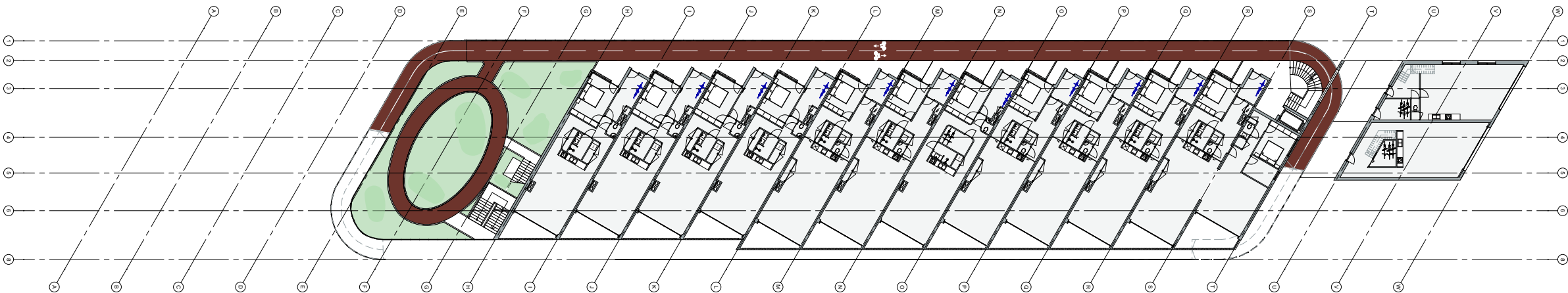


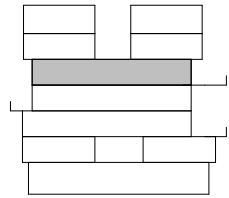




DESIGN | FLOORPLANS

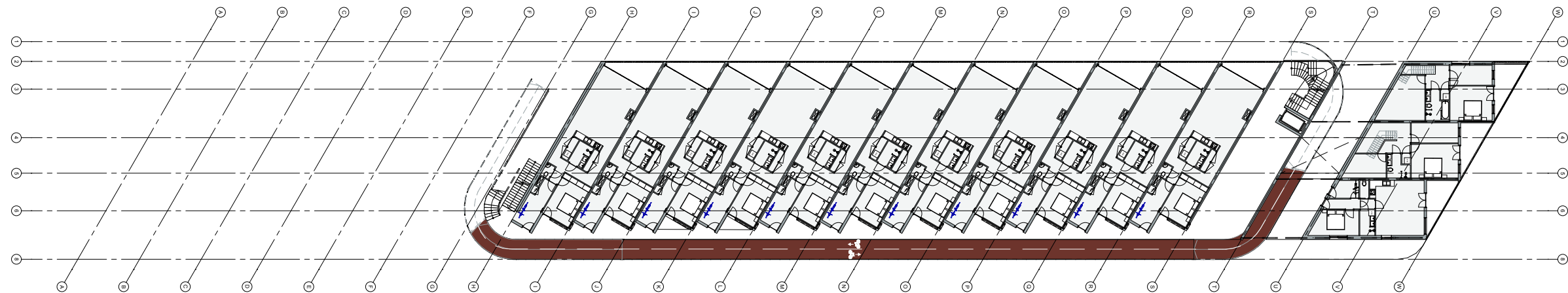
3th FLOOR | 1:500 |



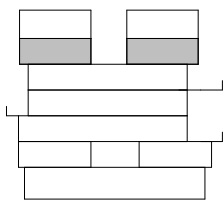


# DESIGN | FLOORPLANS

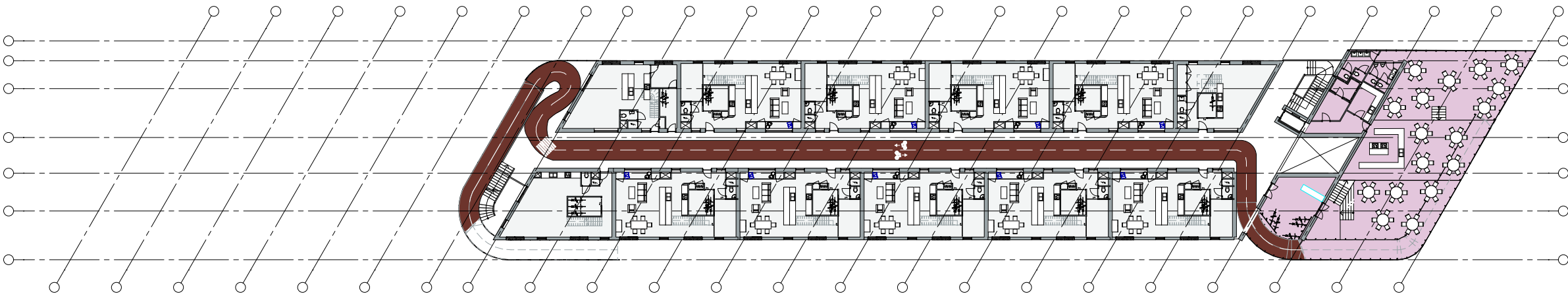
4th FLOOR | 1:500 |



DESIGN | FLOORPLANS

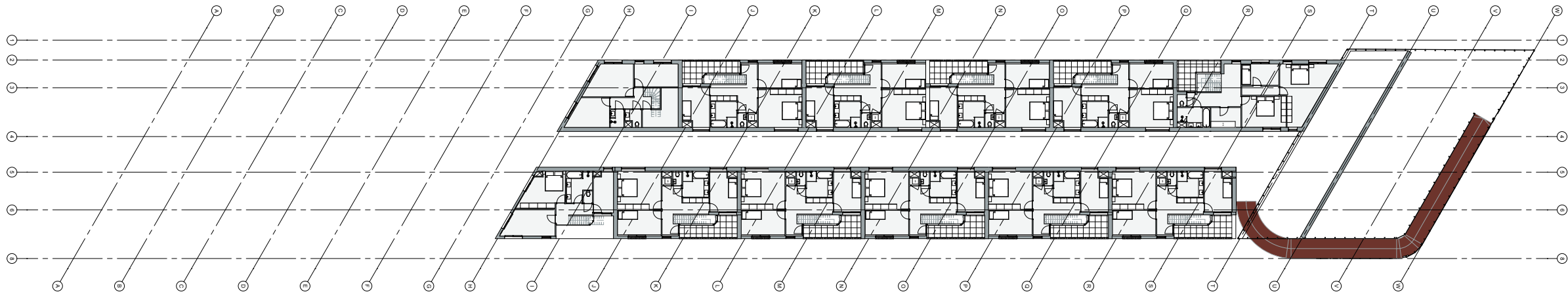
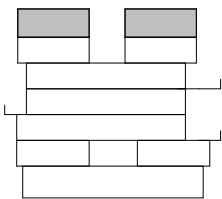


5th FLOOR | 1:500 |



DESIGN | FLOORPLANS

6th FLOOR | 1:500 |



# DESIGN | FACADE

EAST ELEVATION



# DESIGN | FACADE

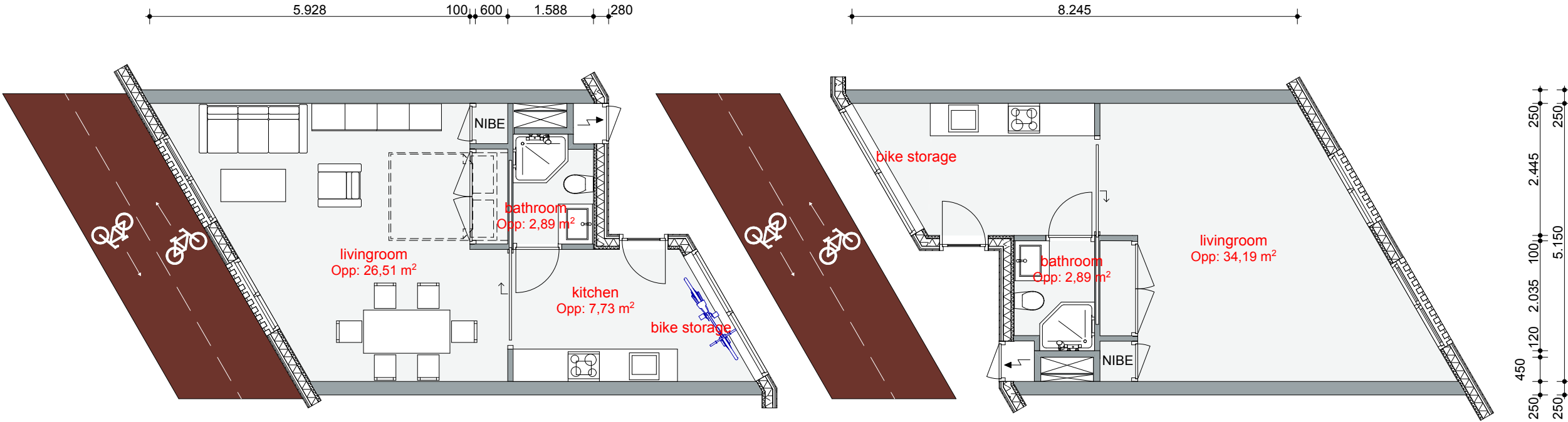
WEST ELEVATION





# DESIGN | FLOORPLANS

STUDIO | 1:100 | 38m<sup>2</sup>





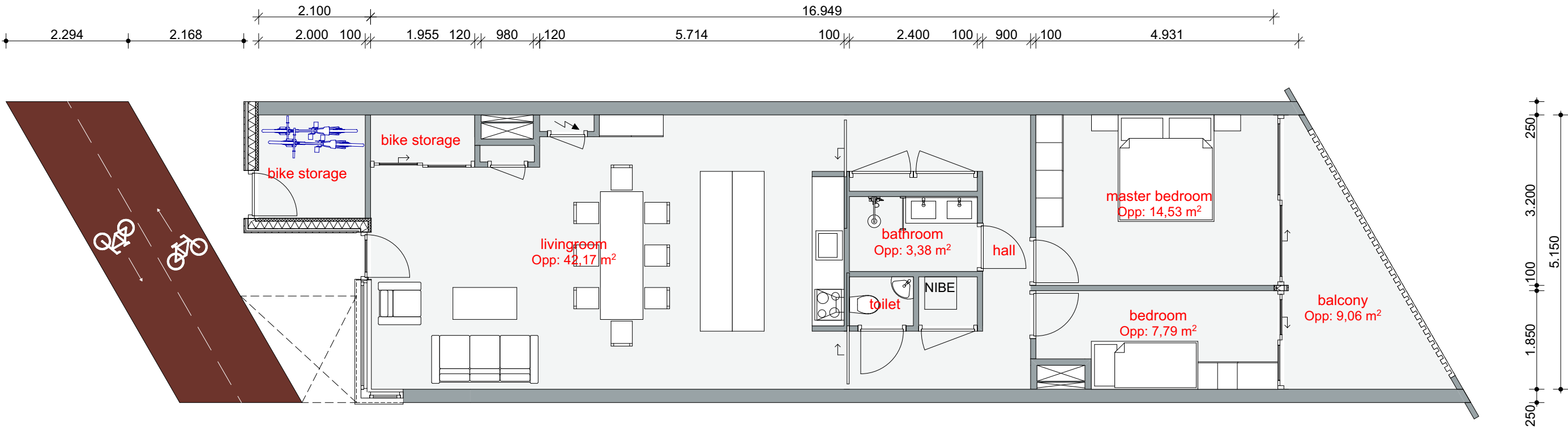
# DESIGN | FLOORPLANS

STUDIO | 38m<sup>2</sup>



DESIGN | FLOORPLANS

APARTMENTS | 1:100 | 80 - 100 m²



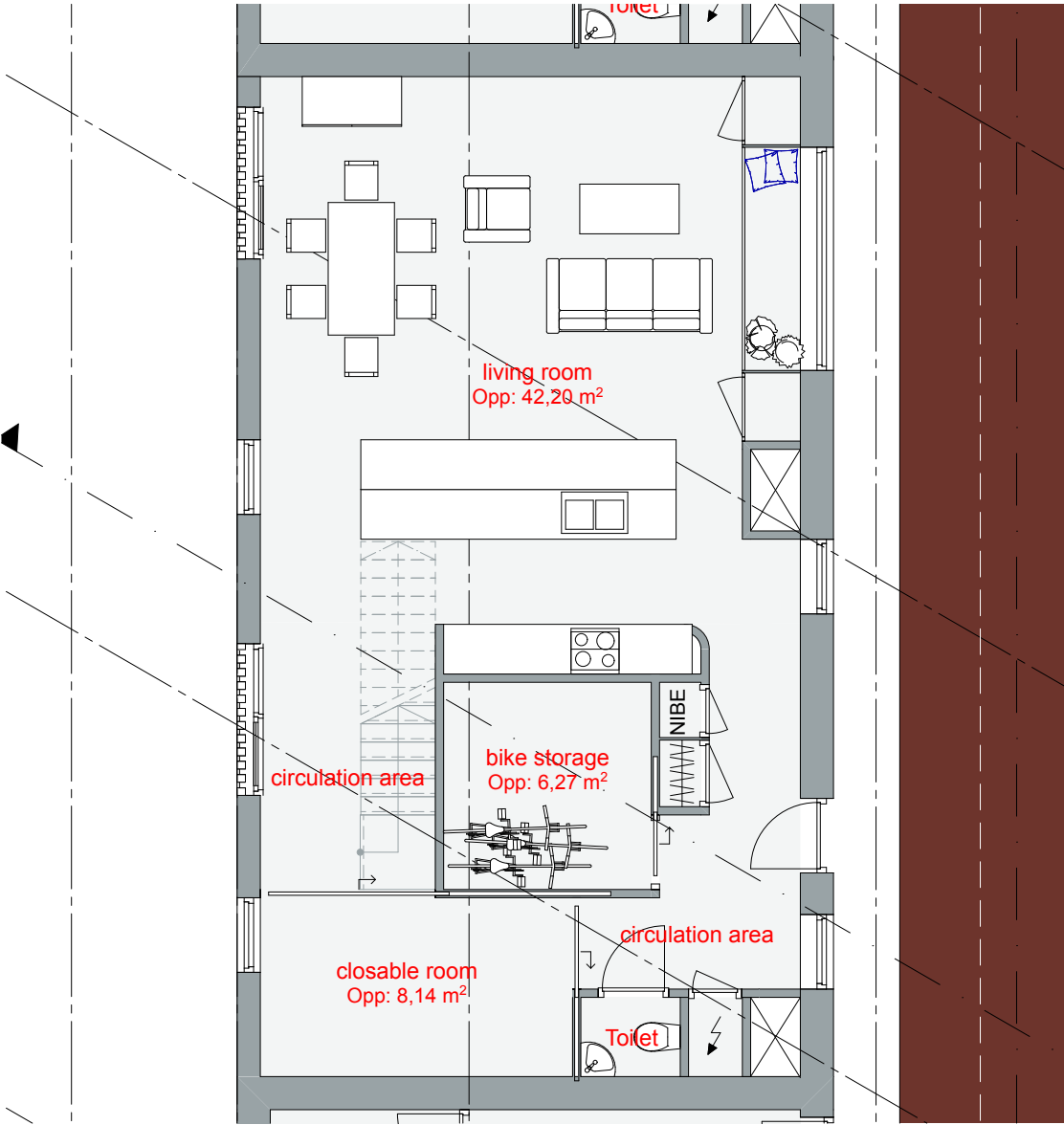
# DESIGN | FLOORPLANS

APARTMENTS | 80 - 100 m<sup>2</sup>

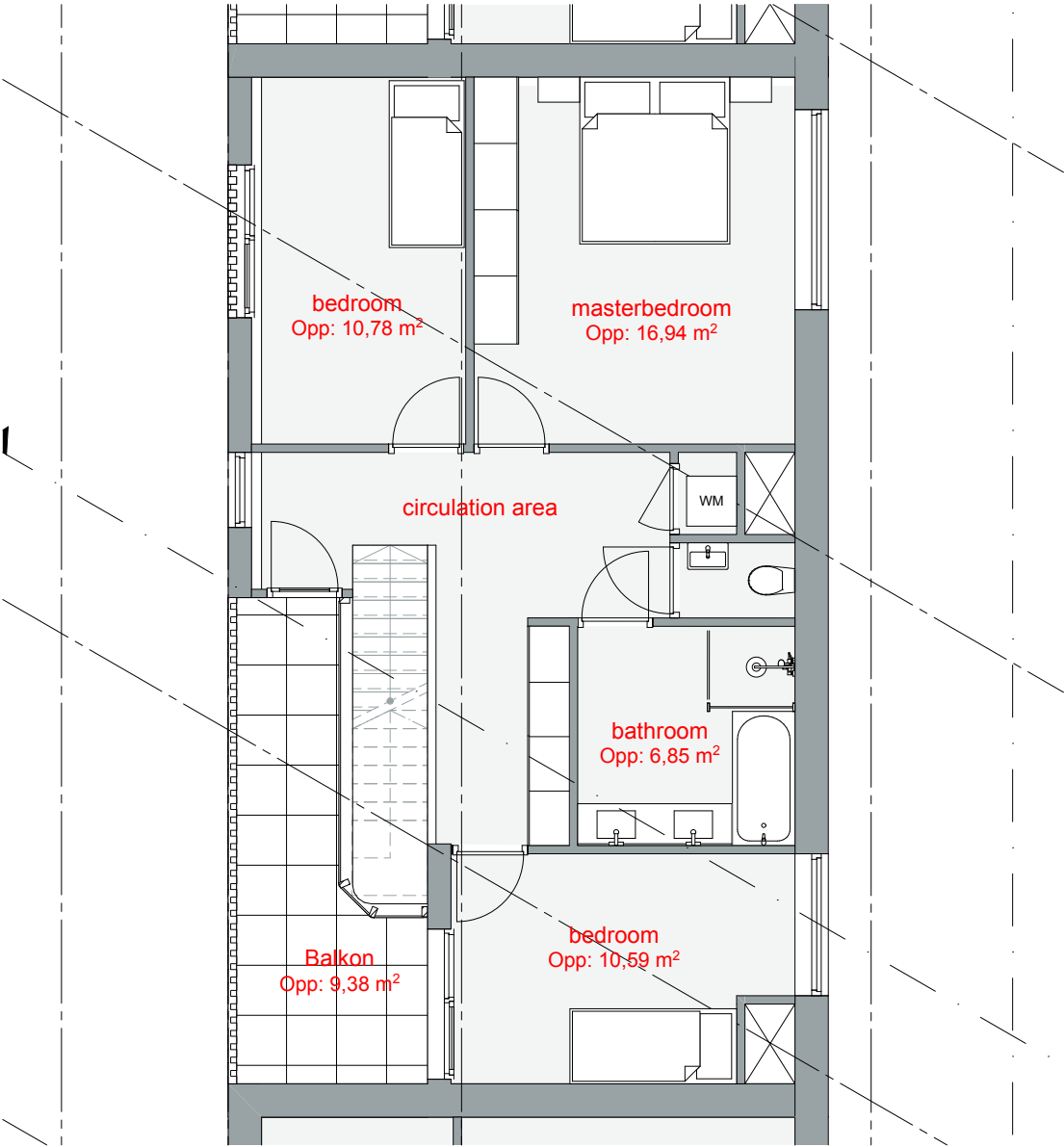


DESIGN | FLOORPLANS

MAISONETTE | 1:100 | 120 m²



5th floor



6th floor



# DESIGN | FLOORPLANS

MAISONETTE | 120 m<sup>2</sup>



# DESIGN | FLOORPLANS

MAISONETTE | 120 m<sup>2</sup>



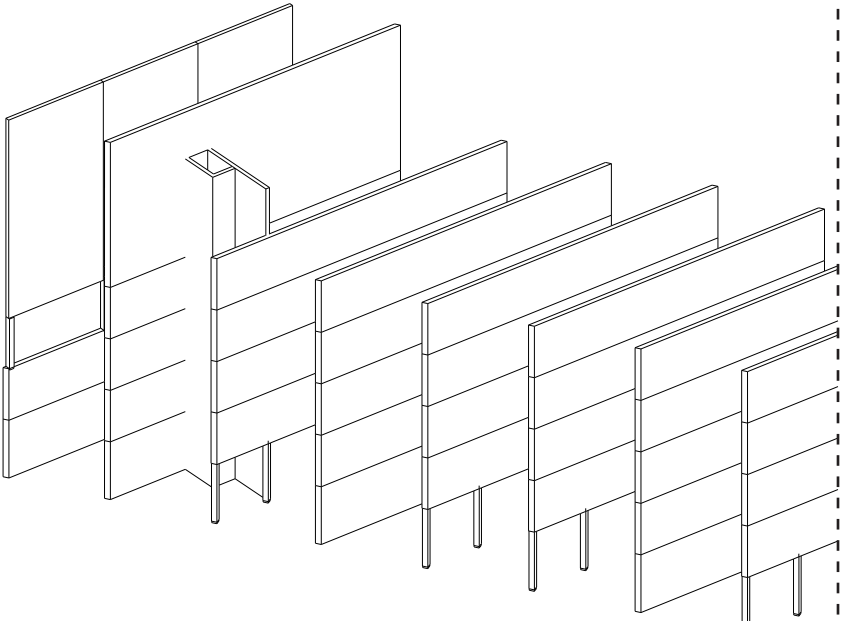
DESIGN | FRAGMENT



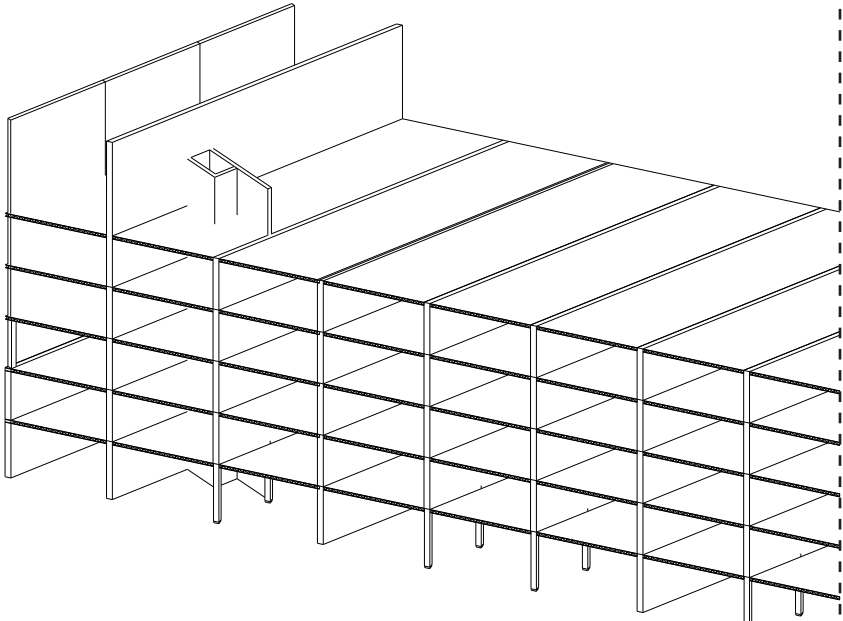


DESIGN | STRUCTURE

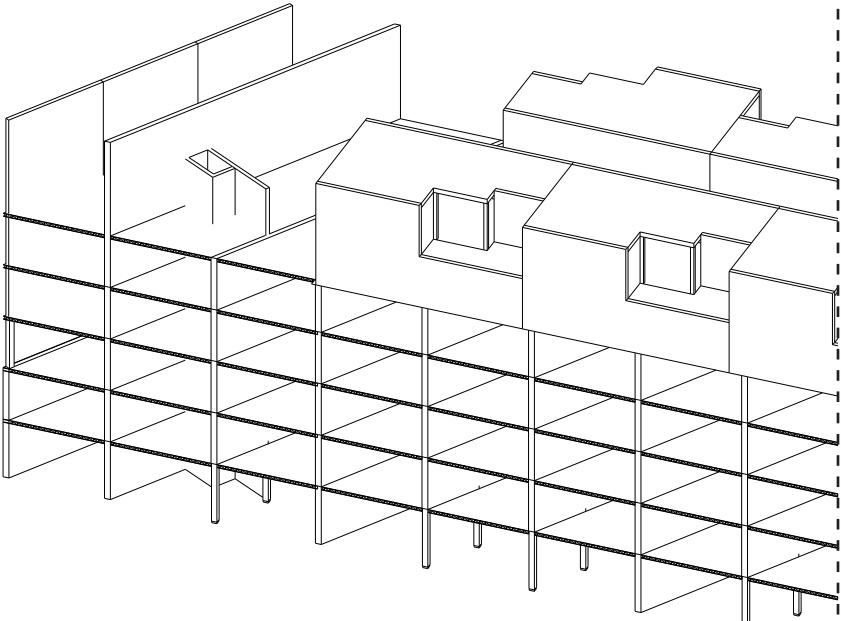
1. Concrete walls



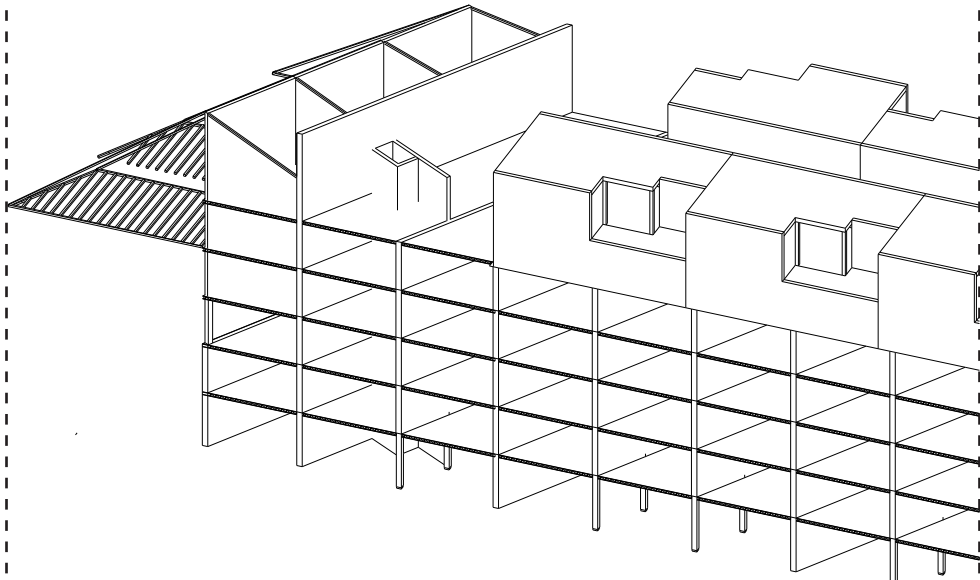
2. wooden LIGNATURE floors



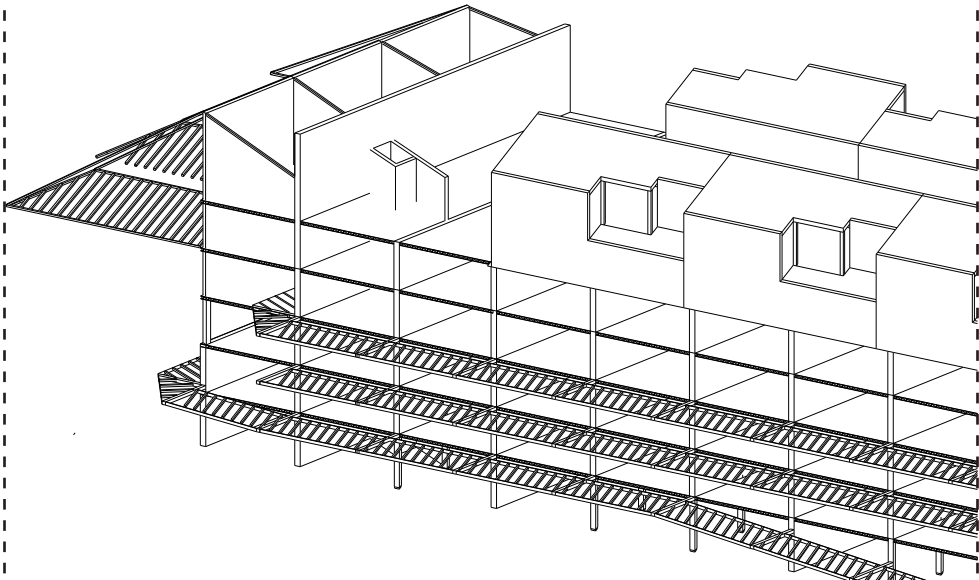
3. 5-6 th floor made of wooden structure



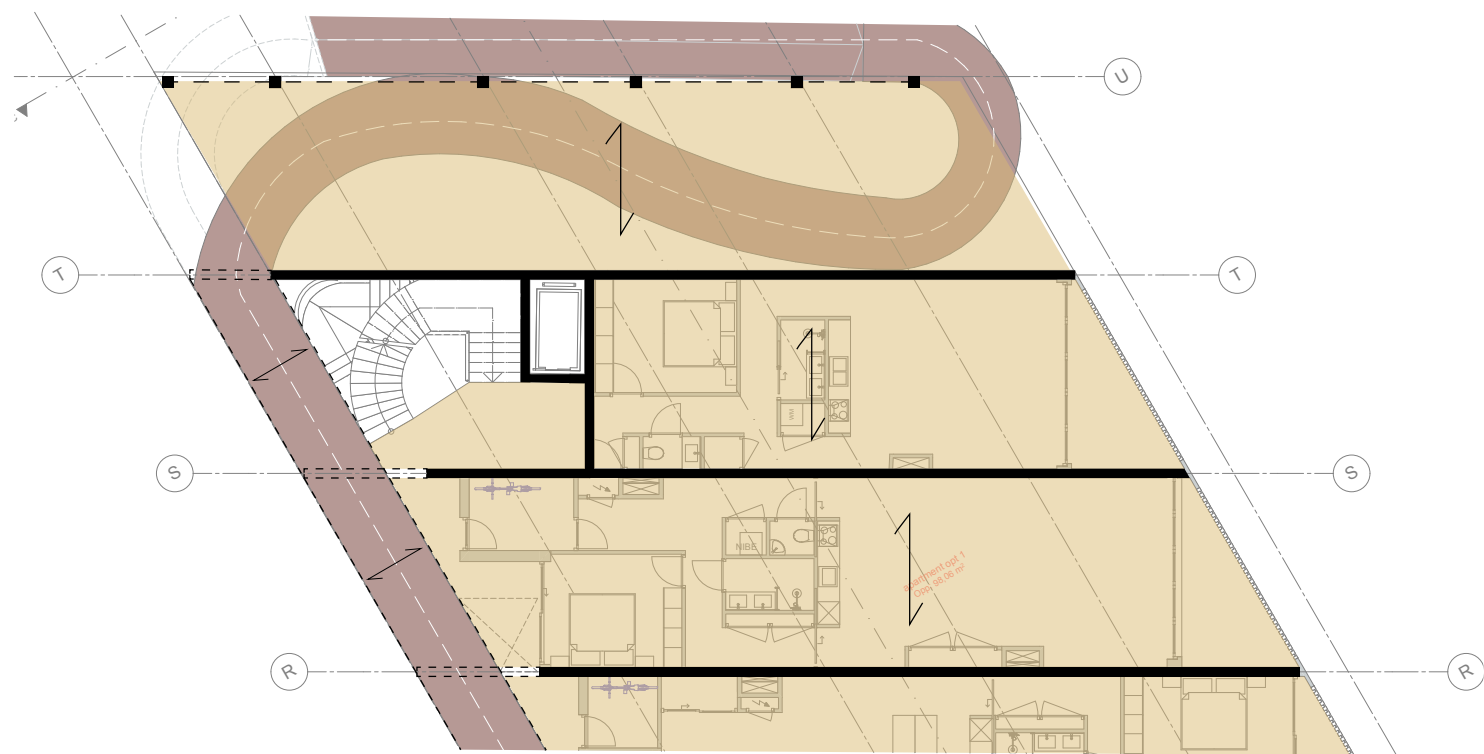
4. cantilever made of steel structure



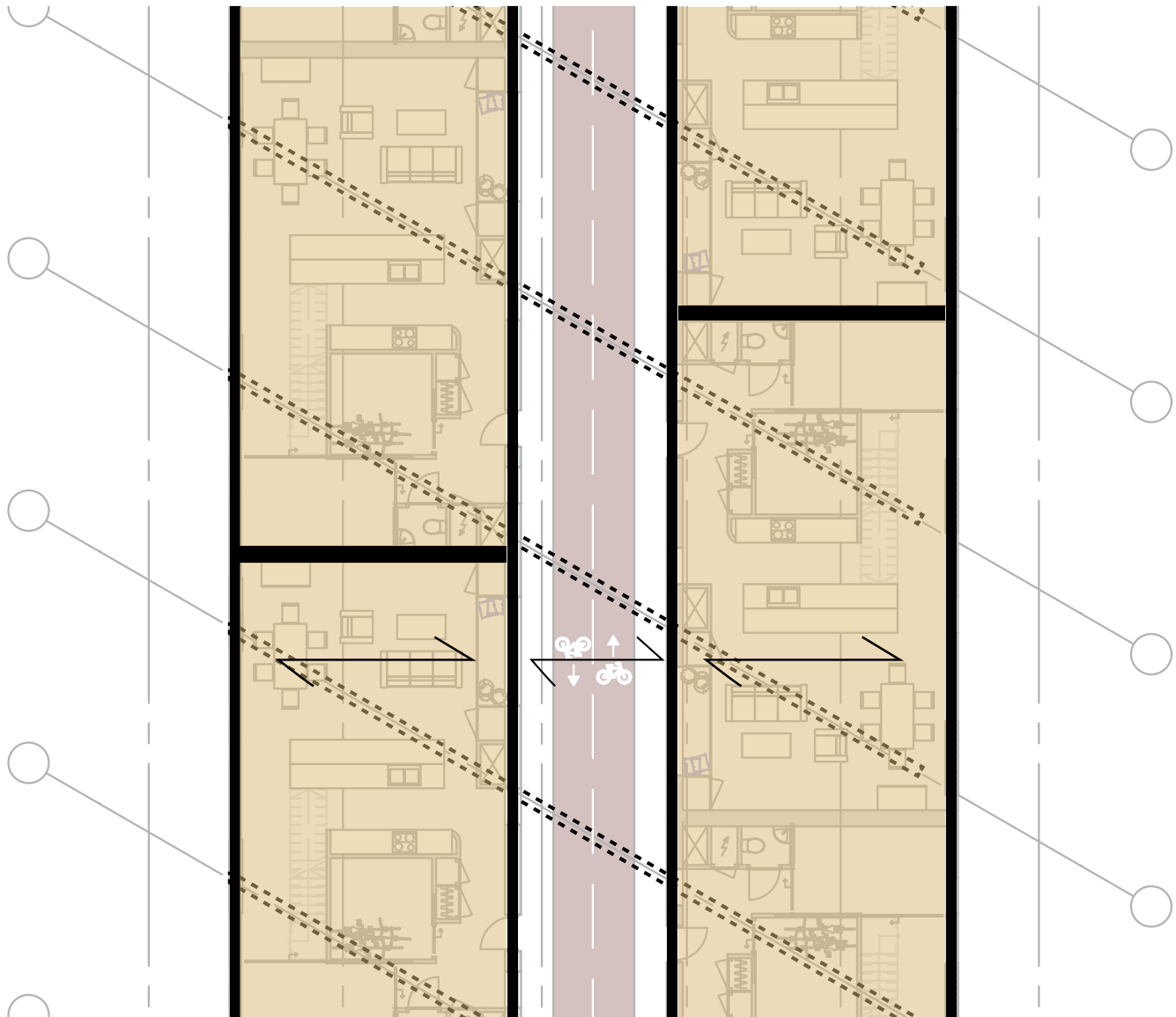
5. Bicycle path made of steel structure



DESIGN | STRUCTURE

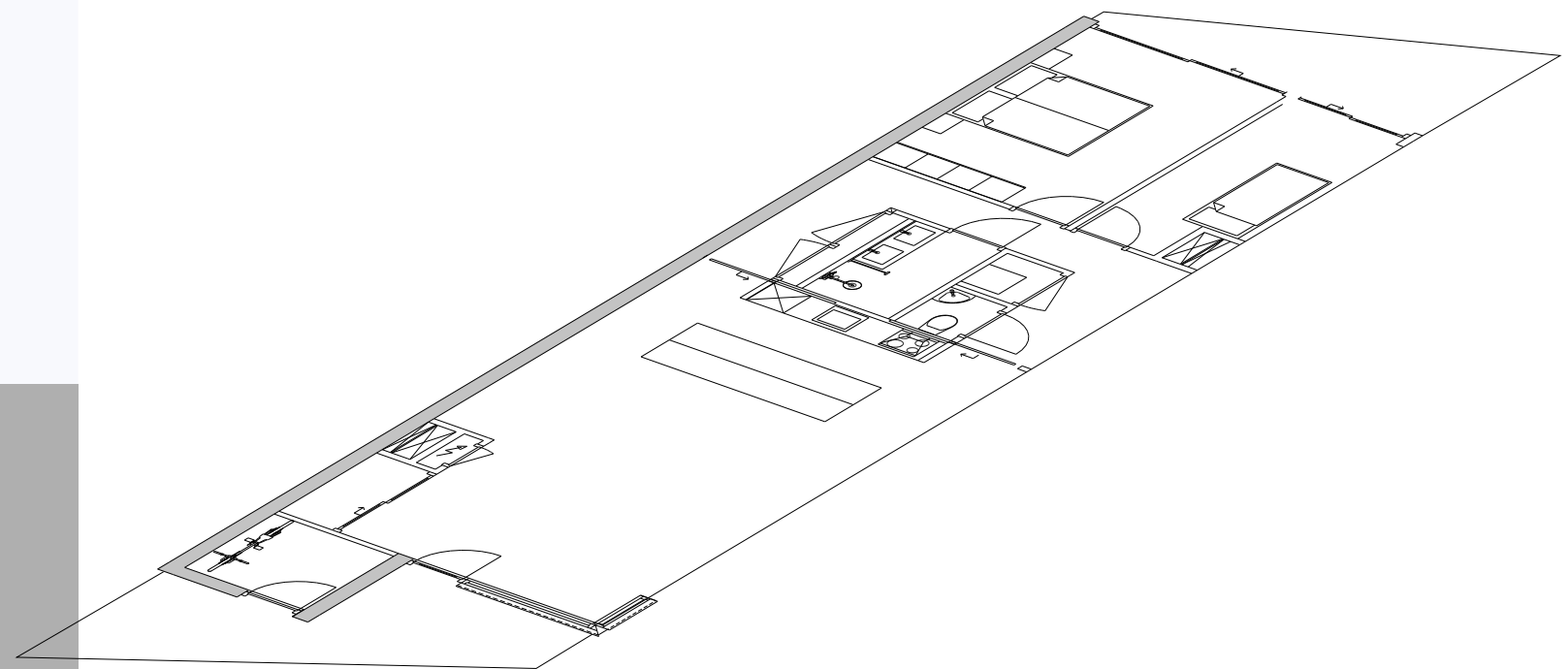
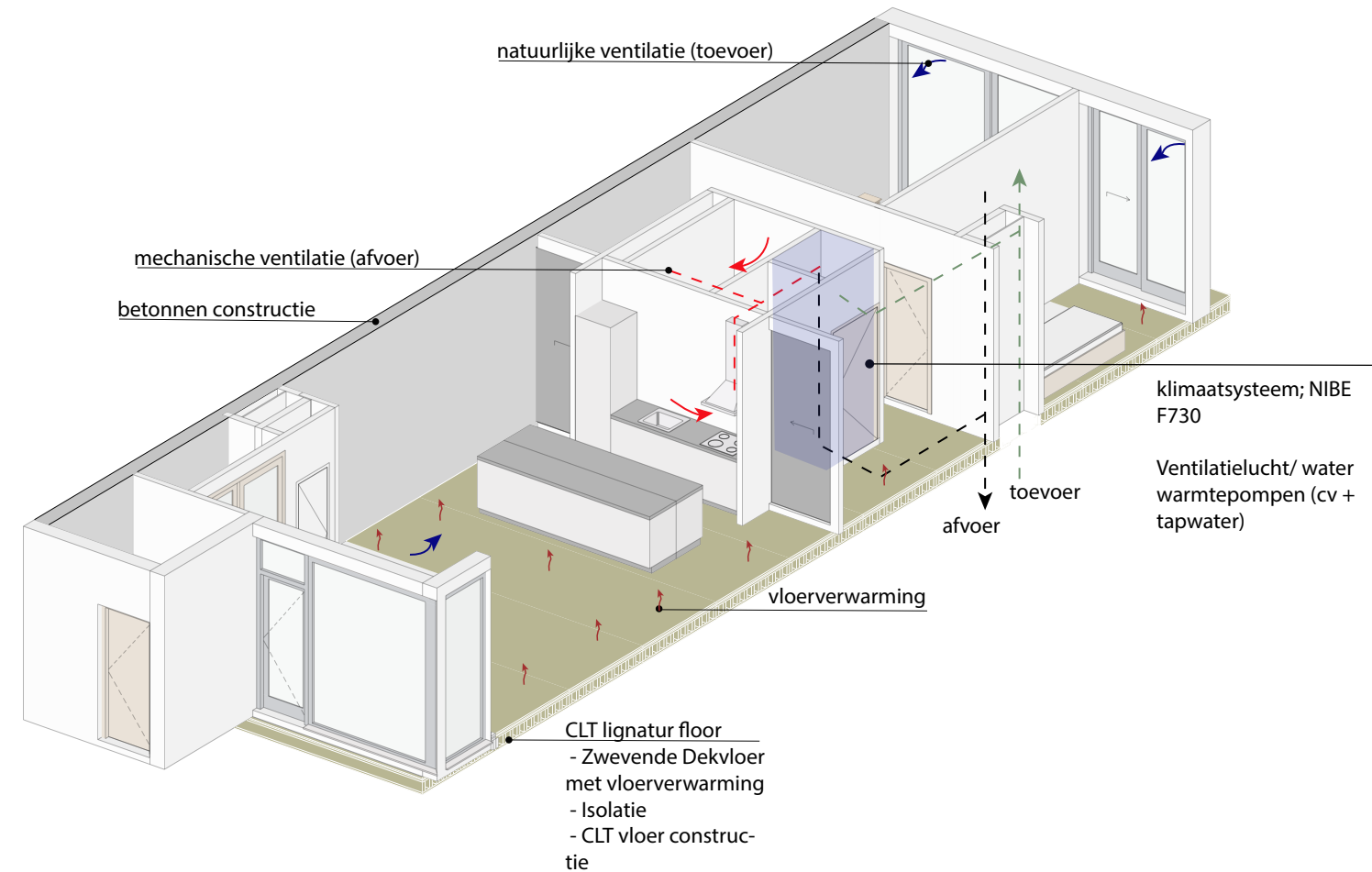


1. Structure principle 1 - 4th floor



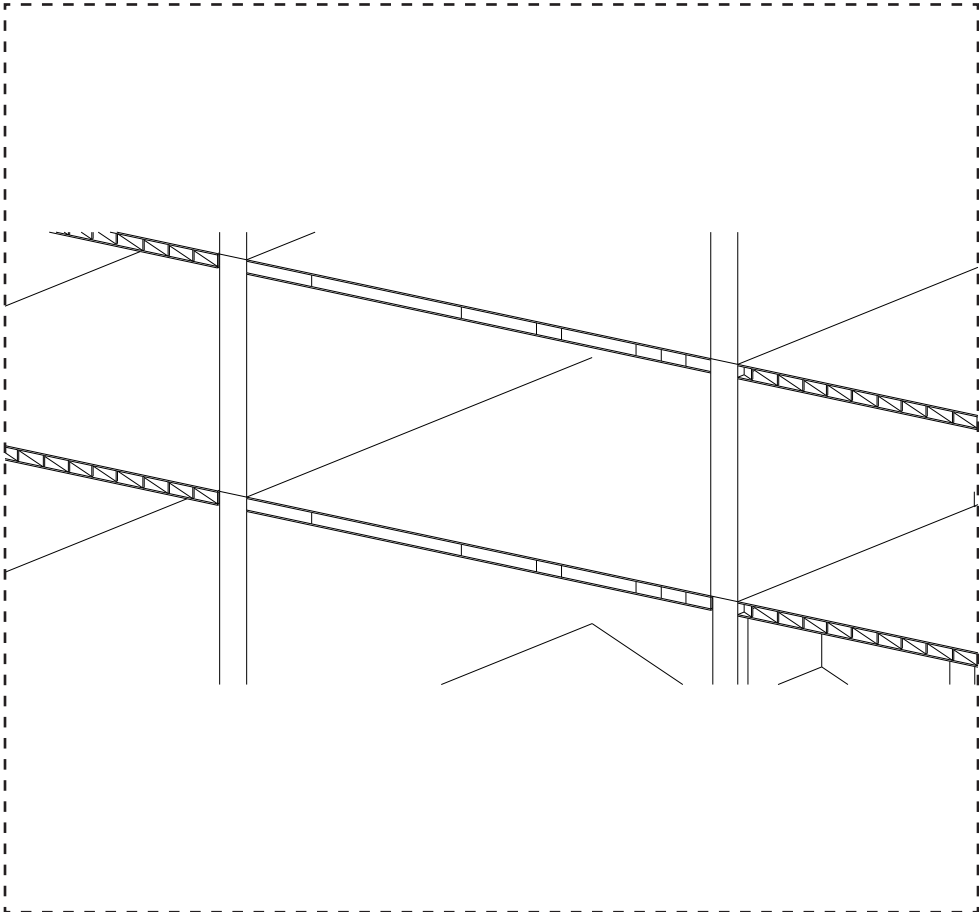
2. Structure principle 5-6 th floor

# DESIGN | CLIMATE

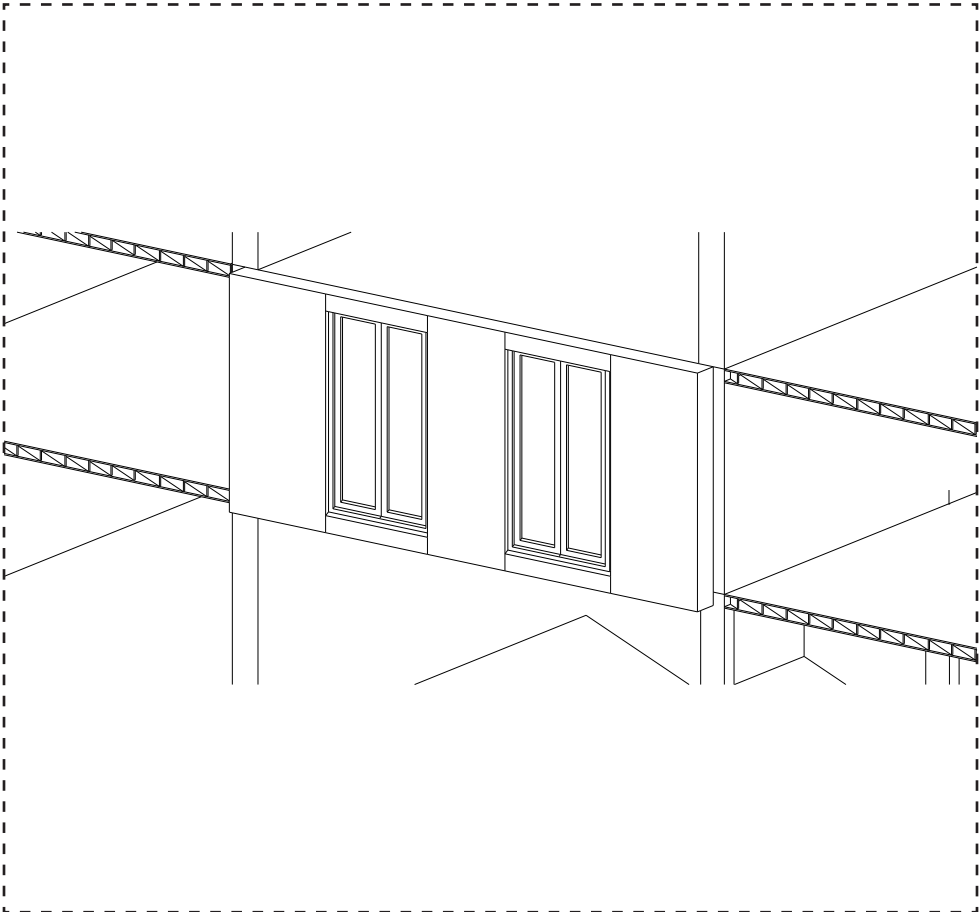


# DESIGN | FACADE SYSTEM

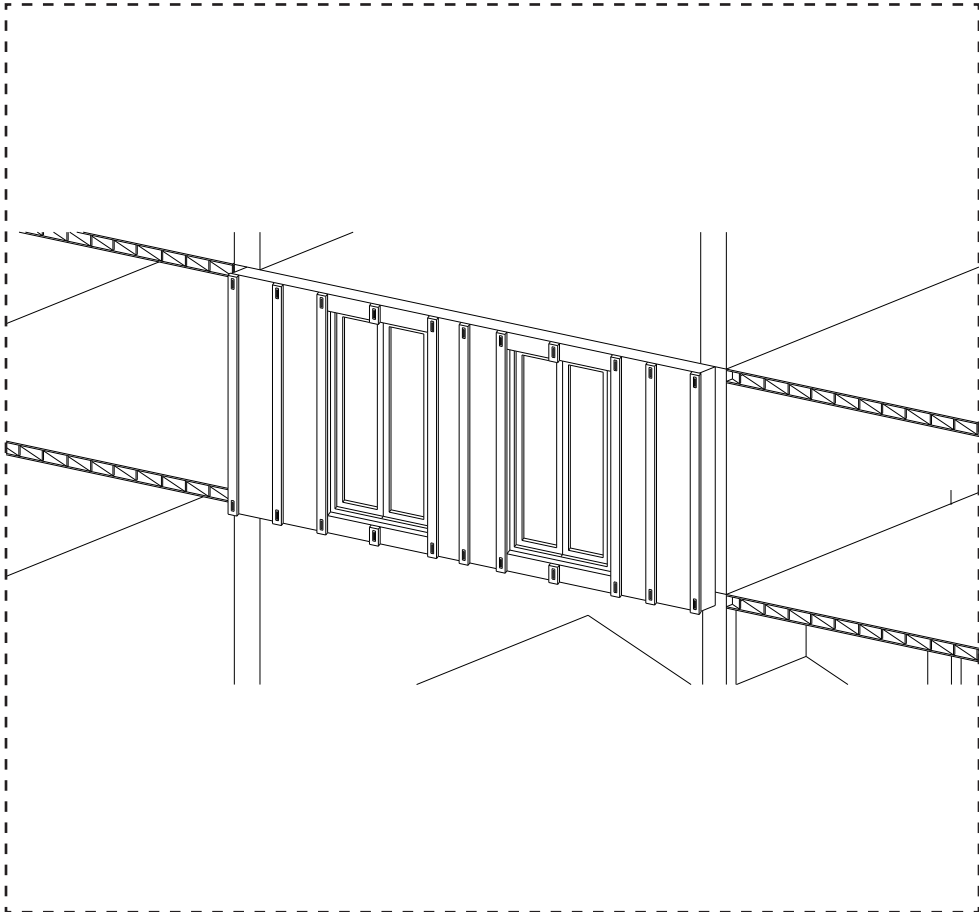
1. Walls and floors



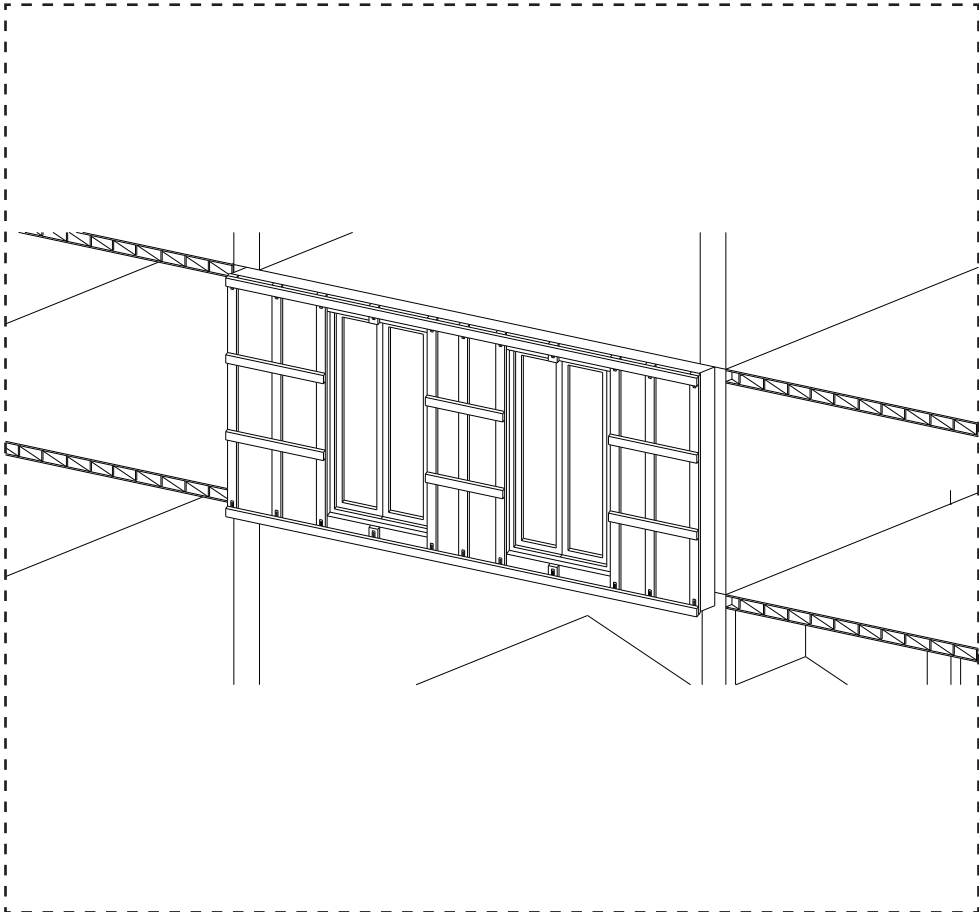
2. Unidek SIPS gevelsysteem



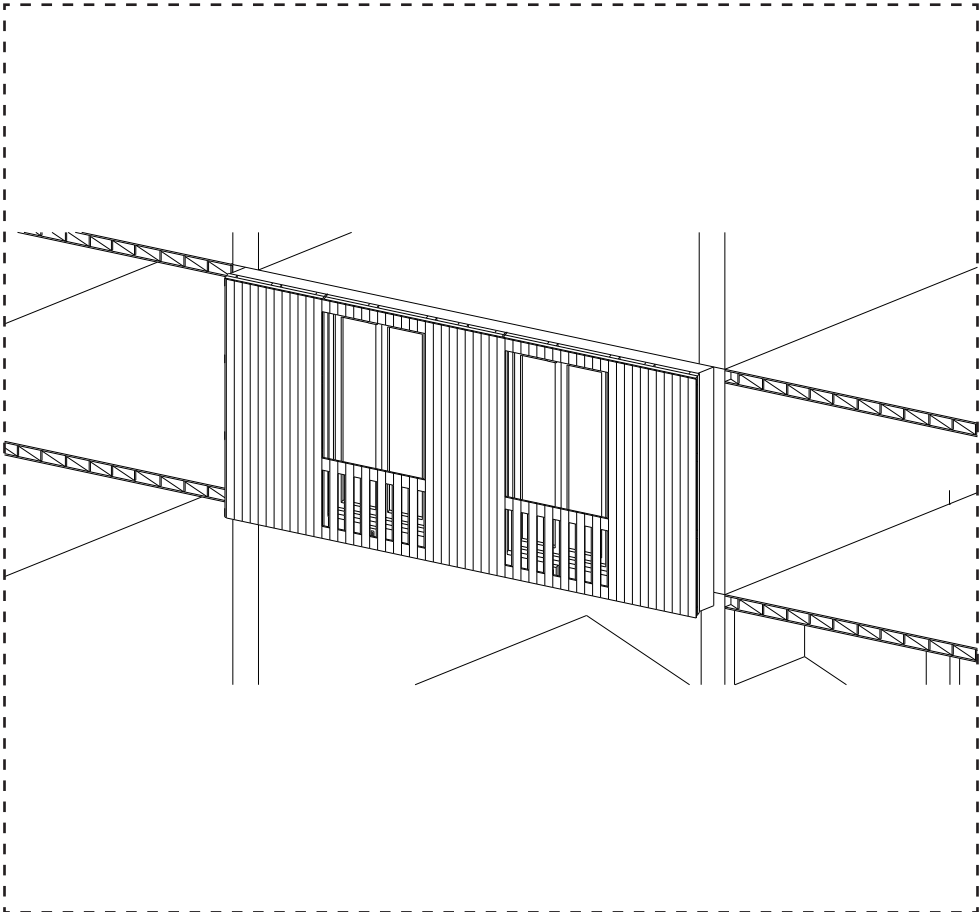
3. wooden structure placed during fabrication

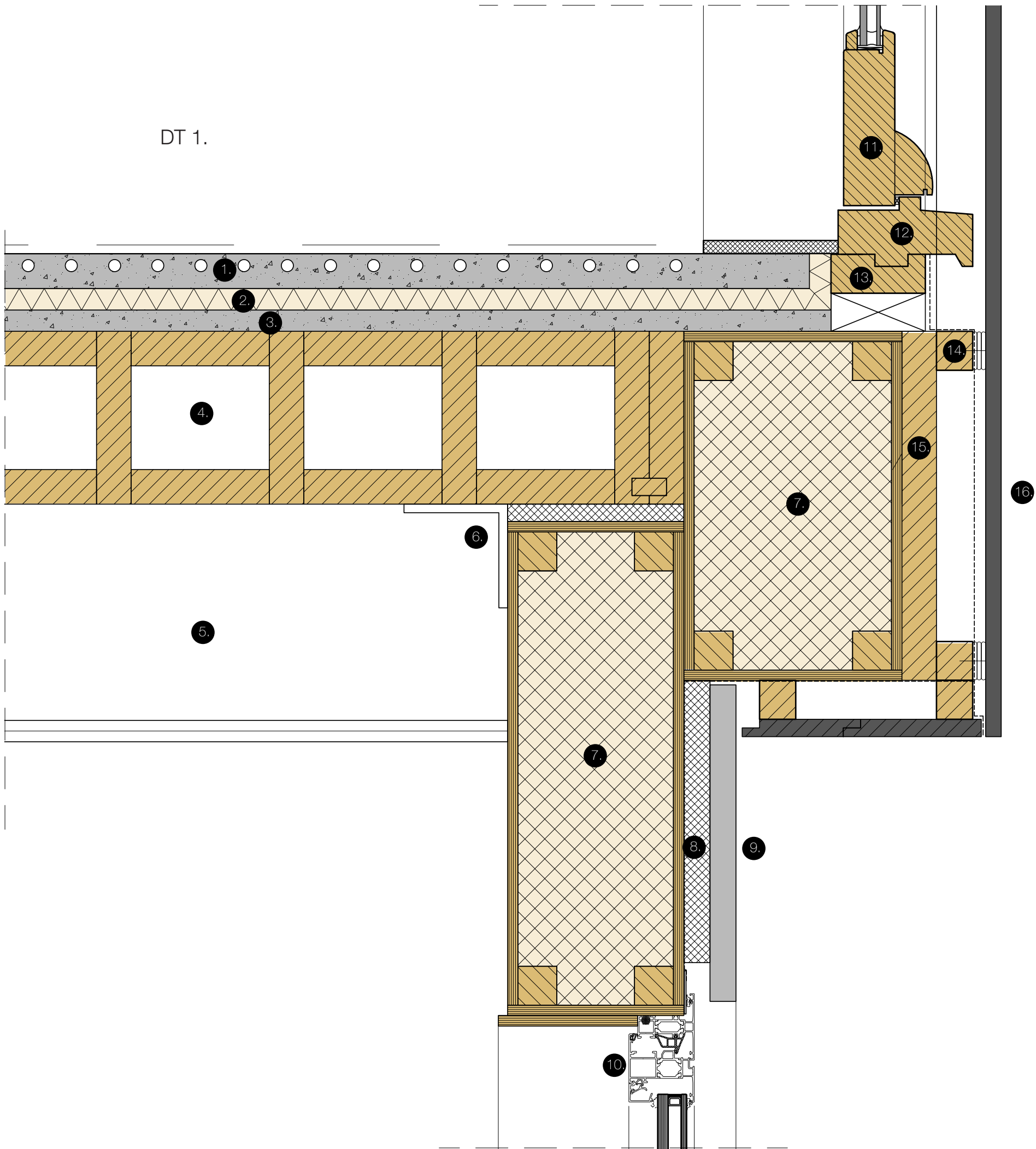


4. placing cladding with structure at once



5. final result with cladding





DT 1.

Description

- 1. dekvloer
- 2. zwevende dekvloer
- 3. egalisatievloer
- 4. 220 mm LIGNATUR floor
- 5. verlaagd plafond
- 6. hoekprofiel
- 7. Unidek SIPS gevelsysteem
- 8. bevestigings systeem
- 9. betonnen gevelbeplating
- 10. aluminium kozijn
- 11. bamboe kozijn
- 12. raamhout
- 13. stelkozijn
- 14. regelwerk, met waterkerende damp open folie en afstandhouders
- 15. stijlen
- 16. MOSO bamboo facade cladding

DT. 3

DETAIL 2,3

1:5 | A3

DT. 2

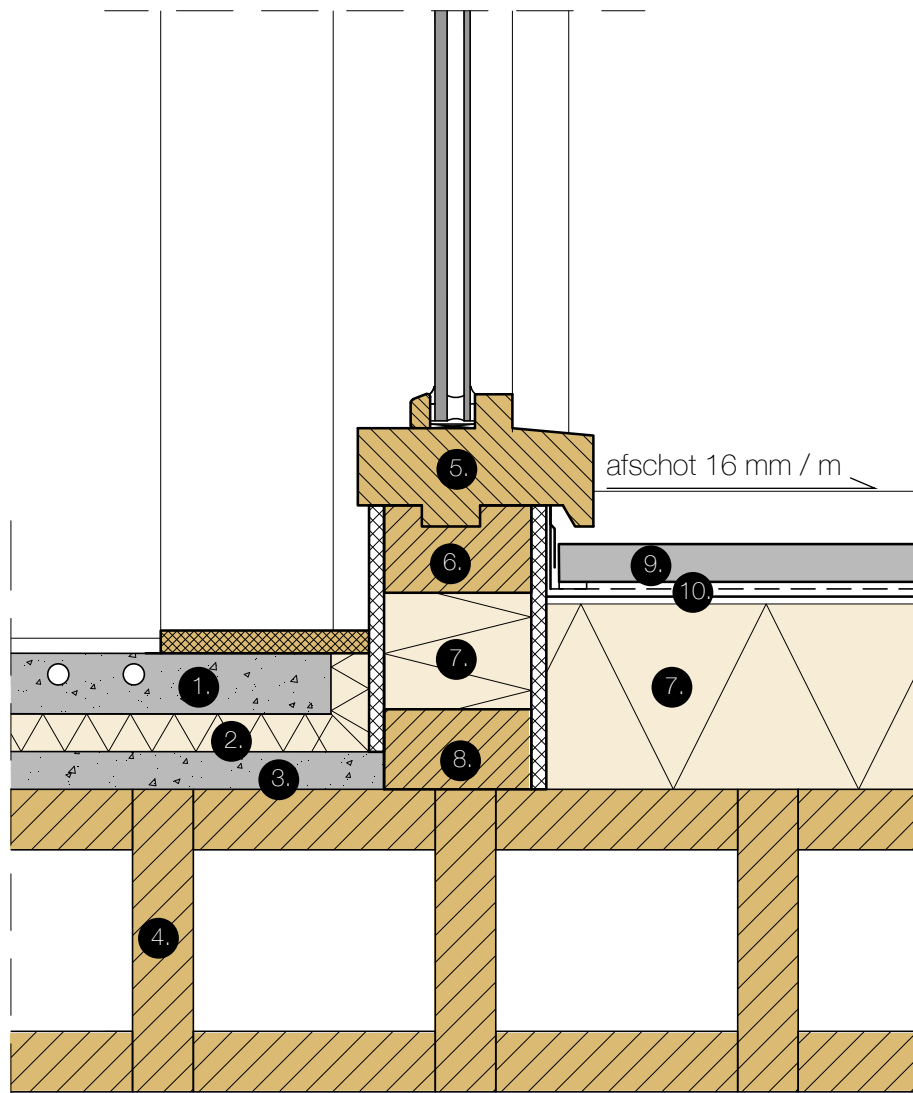
Description

- 1. dekvloer
- 2. zwevende dekvloer
- 3. egalisatievloer
- 4. 220 mm LIGNATUR floor
- 5. vouwdeur
- 6. stelblok
- 7. wood fibre insulation
- 8. kozijn hout
- 9. raamhout
- 10. balk koppelen tussen betonnen schijven
- 11. MOSO bamboe facade cladding
- 12. DUCO ventilatie
- 13. Unidek SIPS gevelsysteem

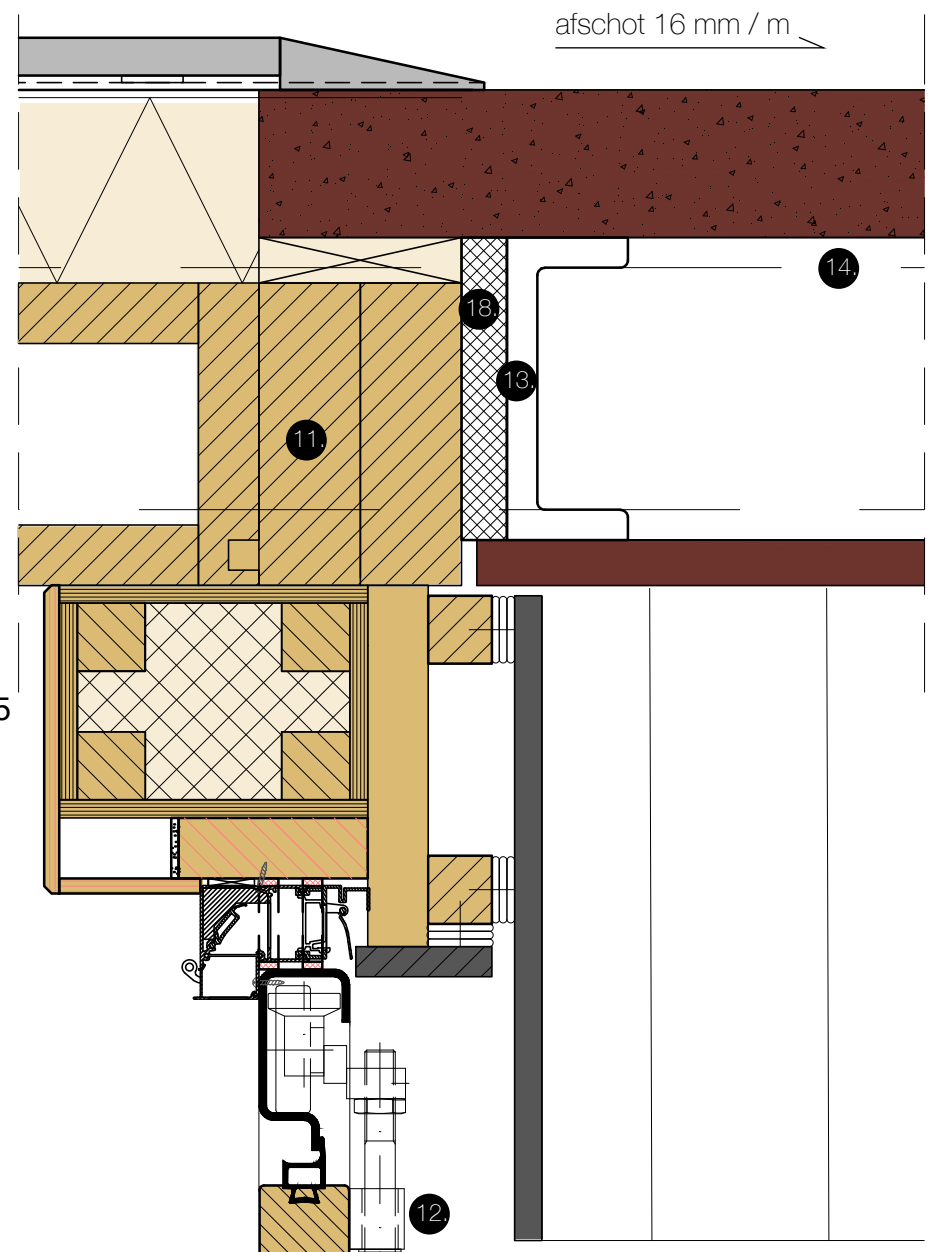


## DESIGN | DETAILING

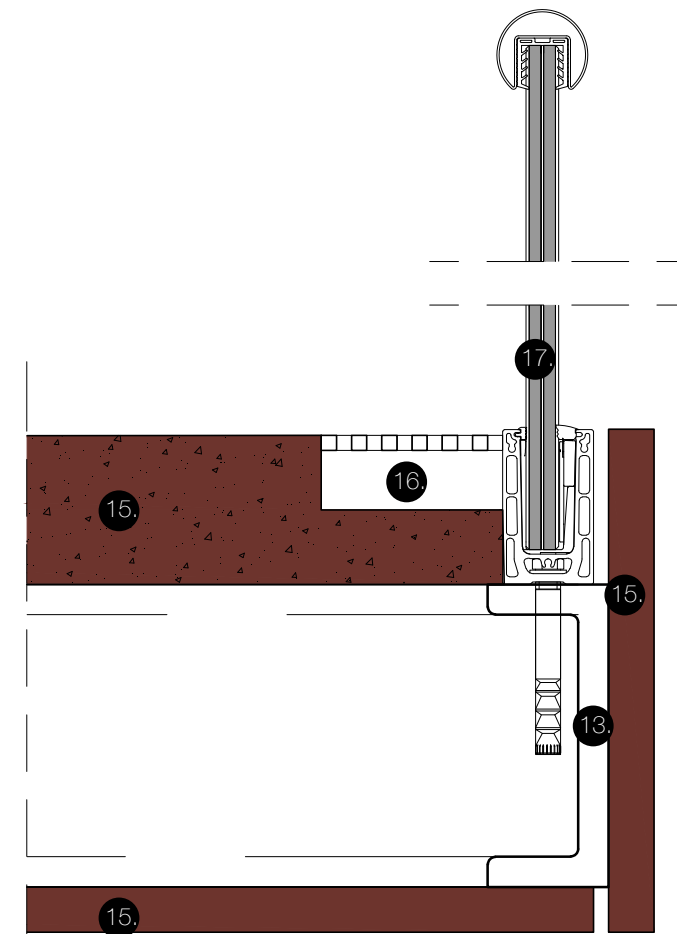
DETAIL 4,5,6  
1:5 | A3



DT. 4



DT. 5

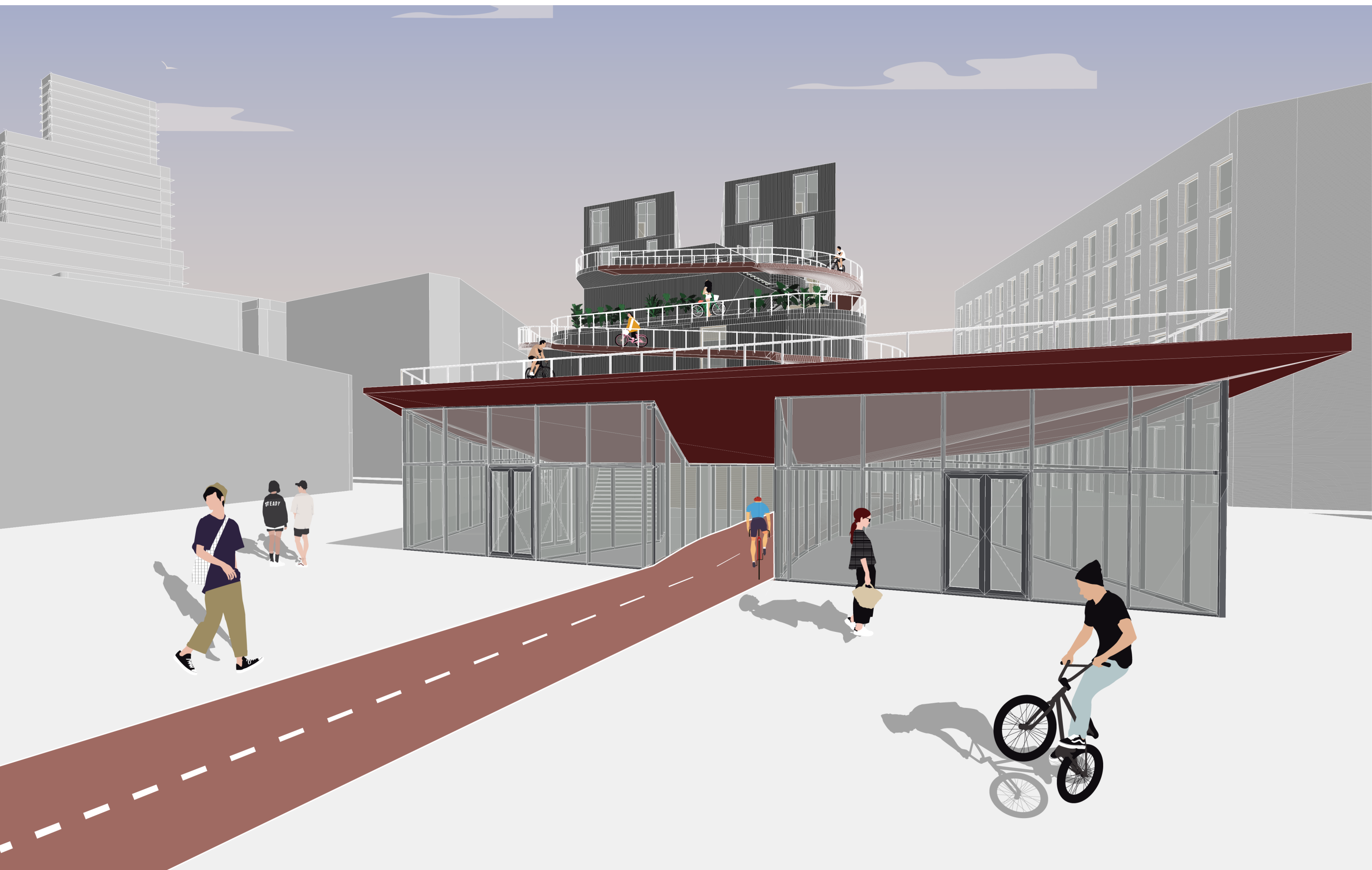


DT. 6

## Description

1. dekvloer
2. zwevende dekvloer
3. egalisatievloer
4. 220 mm LIGNATUR floor
5. raamhout
6. stelkozijn
7. wood fibre insulation
8. hout raamwerk
9. prefab betonnen vloer
10. bitumieuze dakbedekking met brandlaag
11. balk koppelen tussen betonnen schijven
12. vouwdeur
13. UNP profiel
14. HEA profiel bevestigd aan koppelplaat
15. Prefab betonnen platen RAL 3009
16. goot waterafvoer
17. glazen ballustrade
18. neopreen

# DESIGN | IMPRESSION





# DESIGN | IMPRESSION





# DESIGN | IMPRESSION



# DESIGN | IMPRESSION

