

Cosmopolitan

Bridging the gap between academic and city life



Public Building Graduation Studio
P5 Presentation

Name

Introduction

Design assignment

Campus in The Netherlands

Campus of the future

Design assignment

Vertical campus



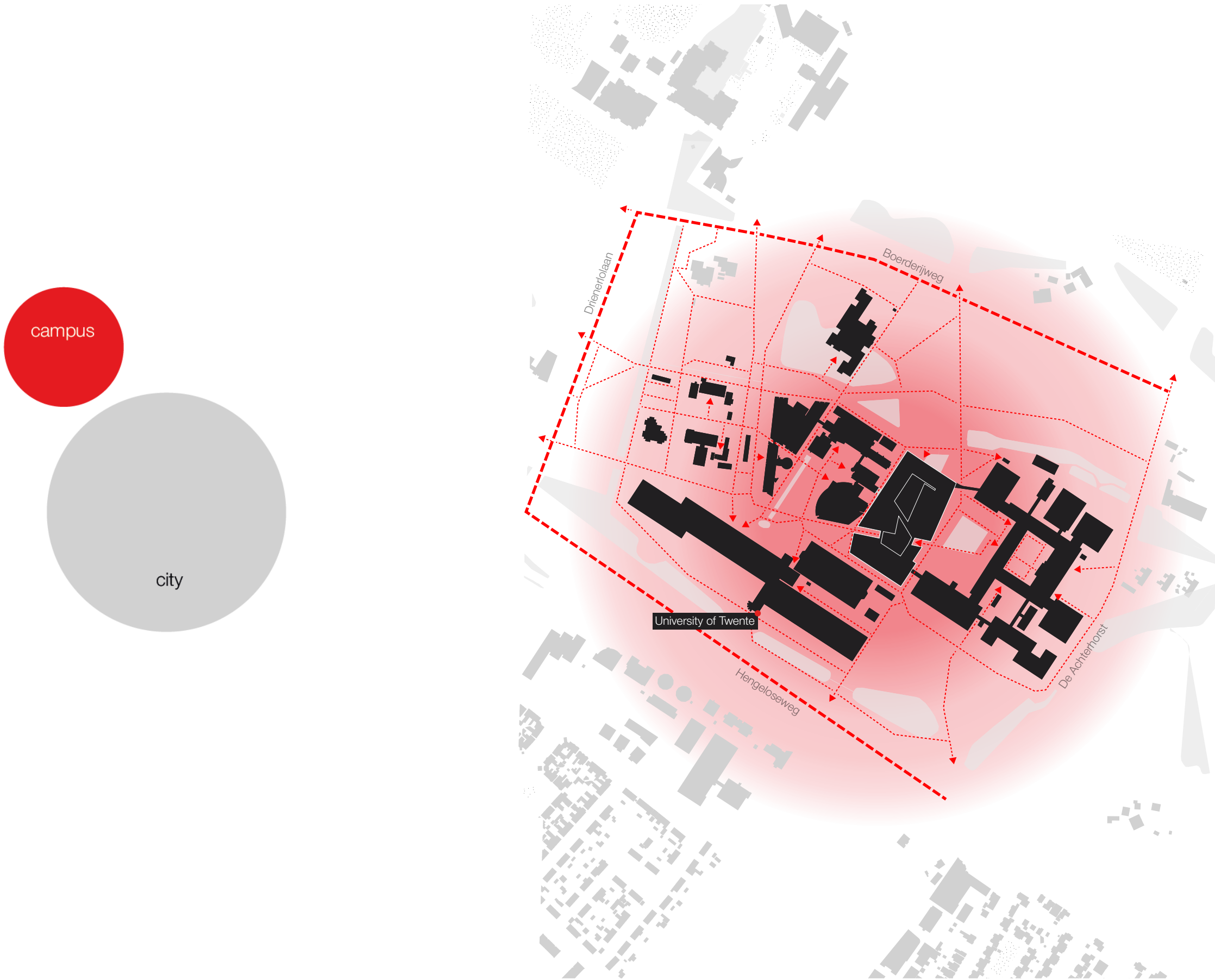
Campus in The Netherlands

UT Enschede



Campus in The Netherlands

UT Enschede



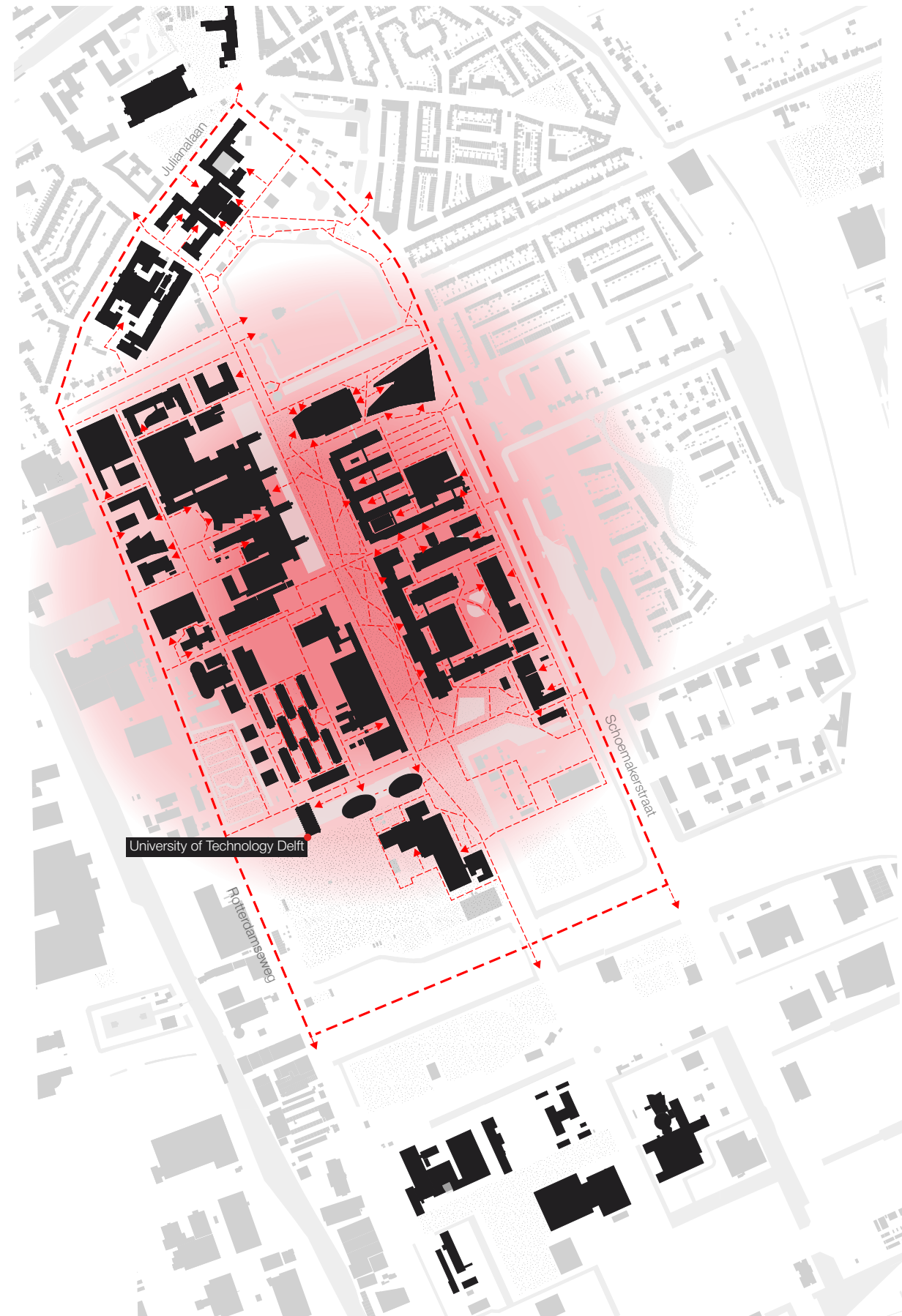
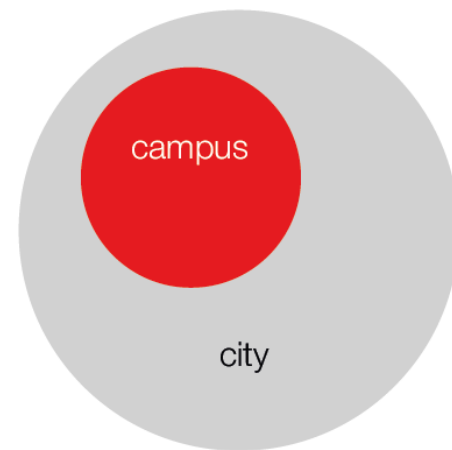
Campus in The Netherlands

TU Delft



Campus in The Netherlands

TU Delft



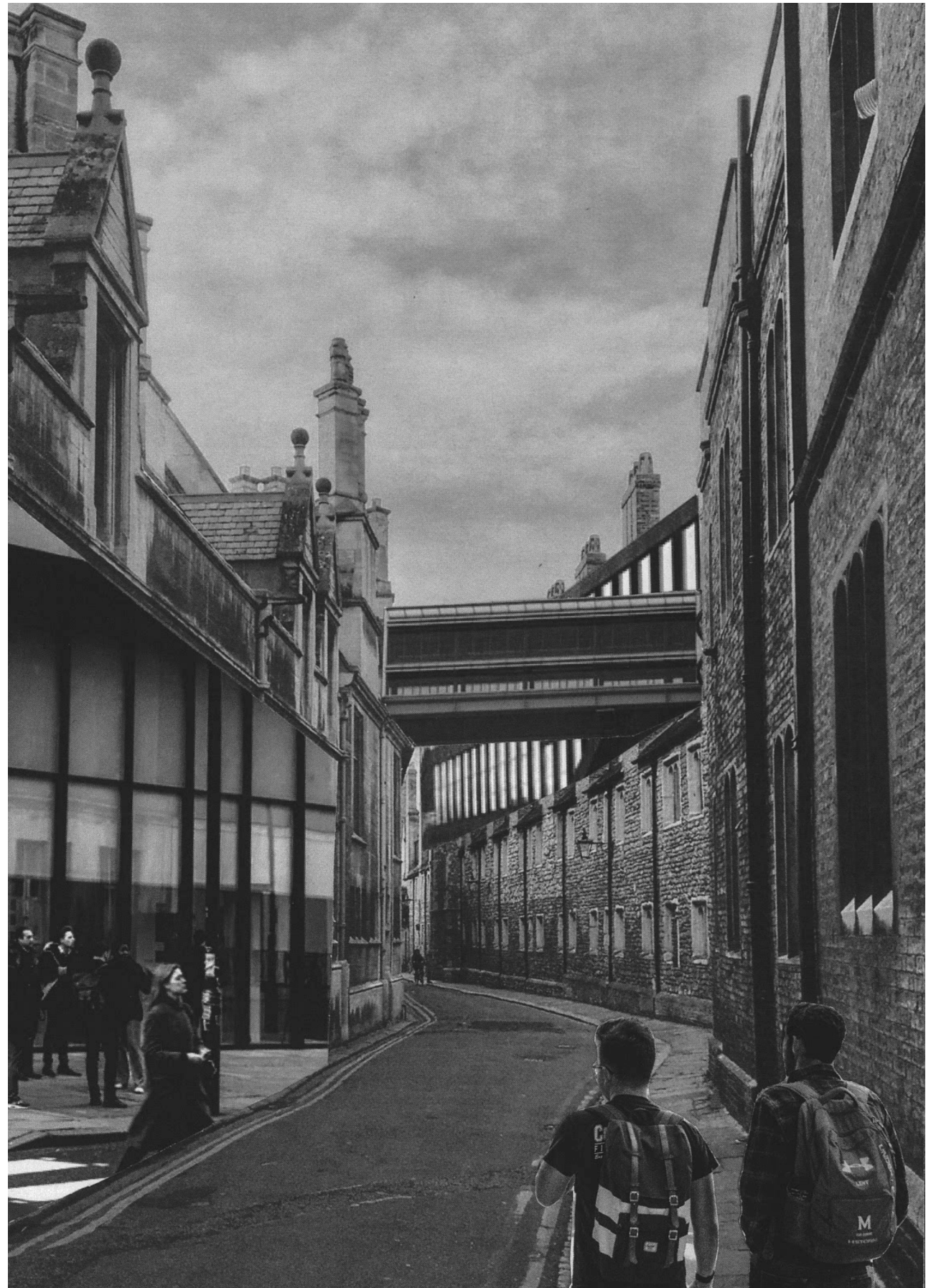
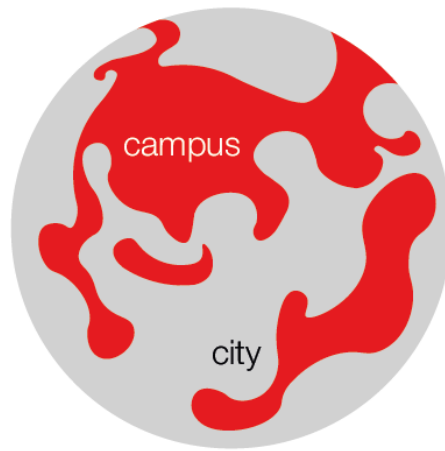
Campus in The Netherlands

UM Maastricht



Campus of the future

Two-sided interplay



Context

The Hague

Central Station area

Three zones

Green border

Surrounding areas

The Hague

Part of Randstad



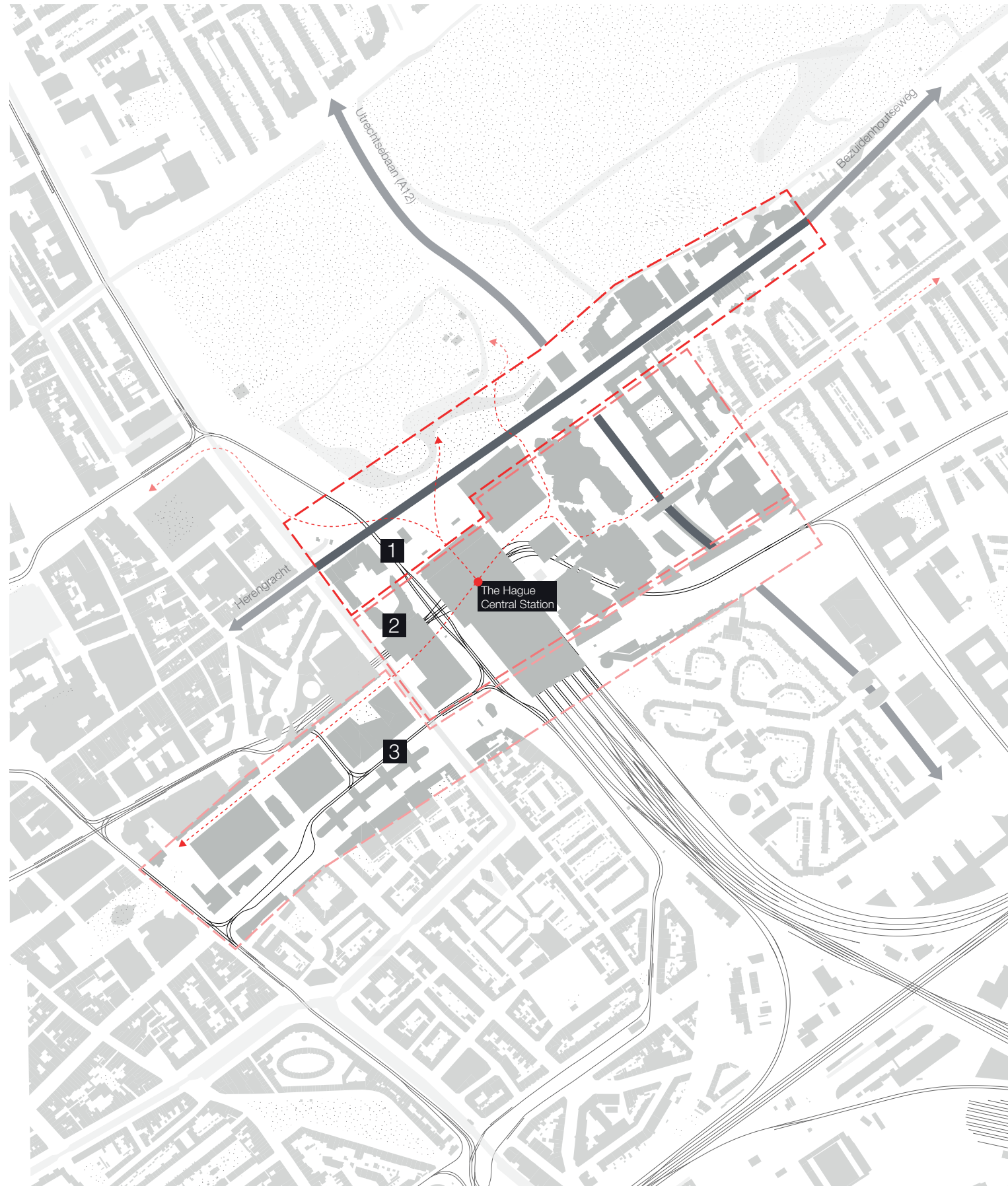
Central Station area

Aims for densification



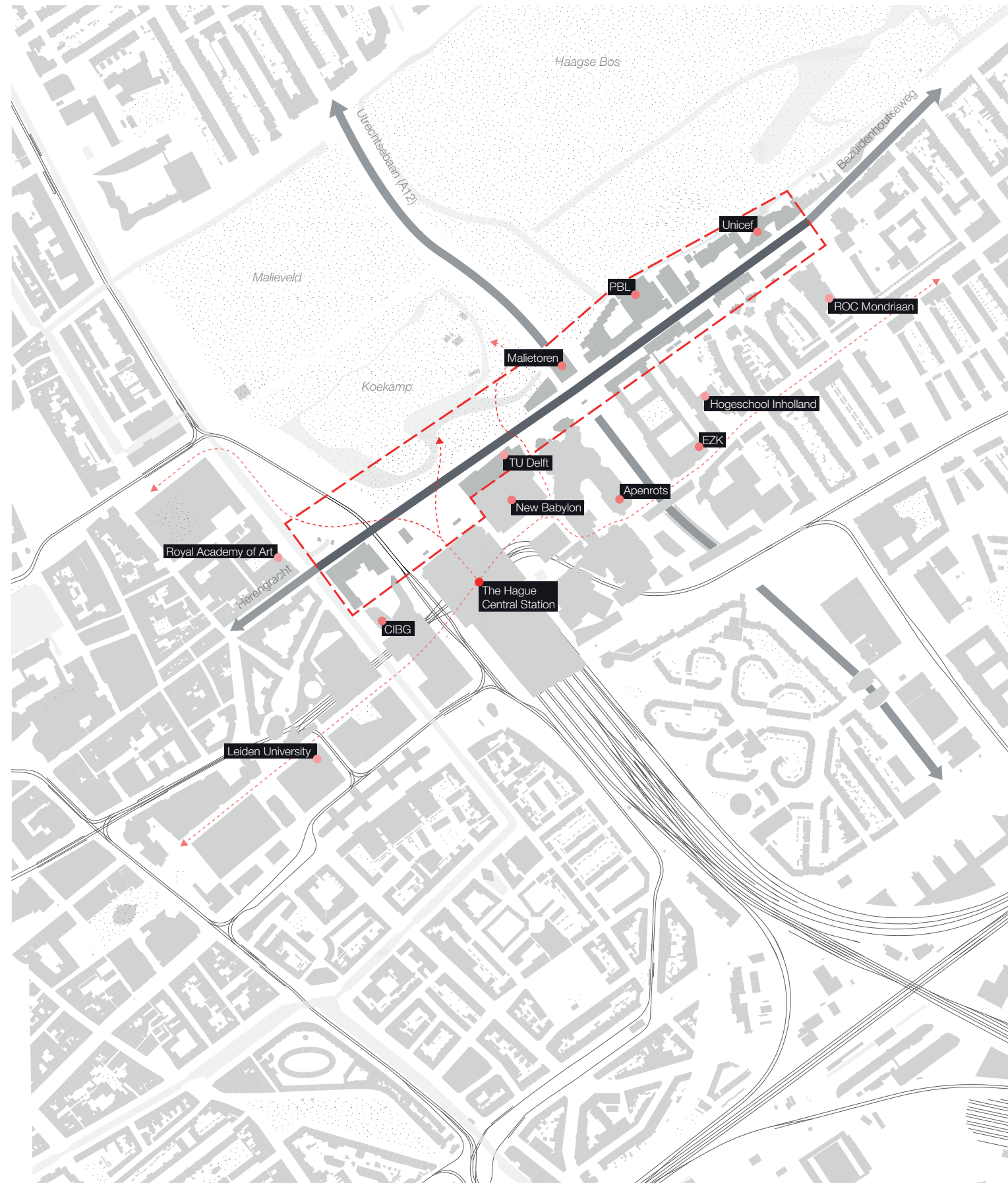
Project zones

1: Green border 2: High density urban fabric 3: Fly-over infrastructure



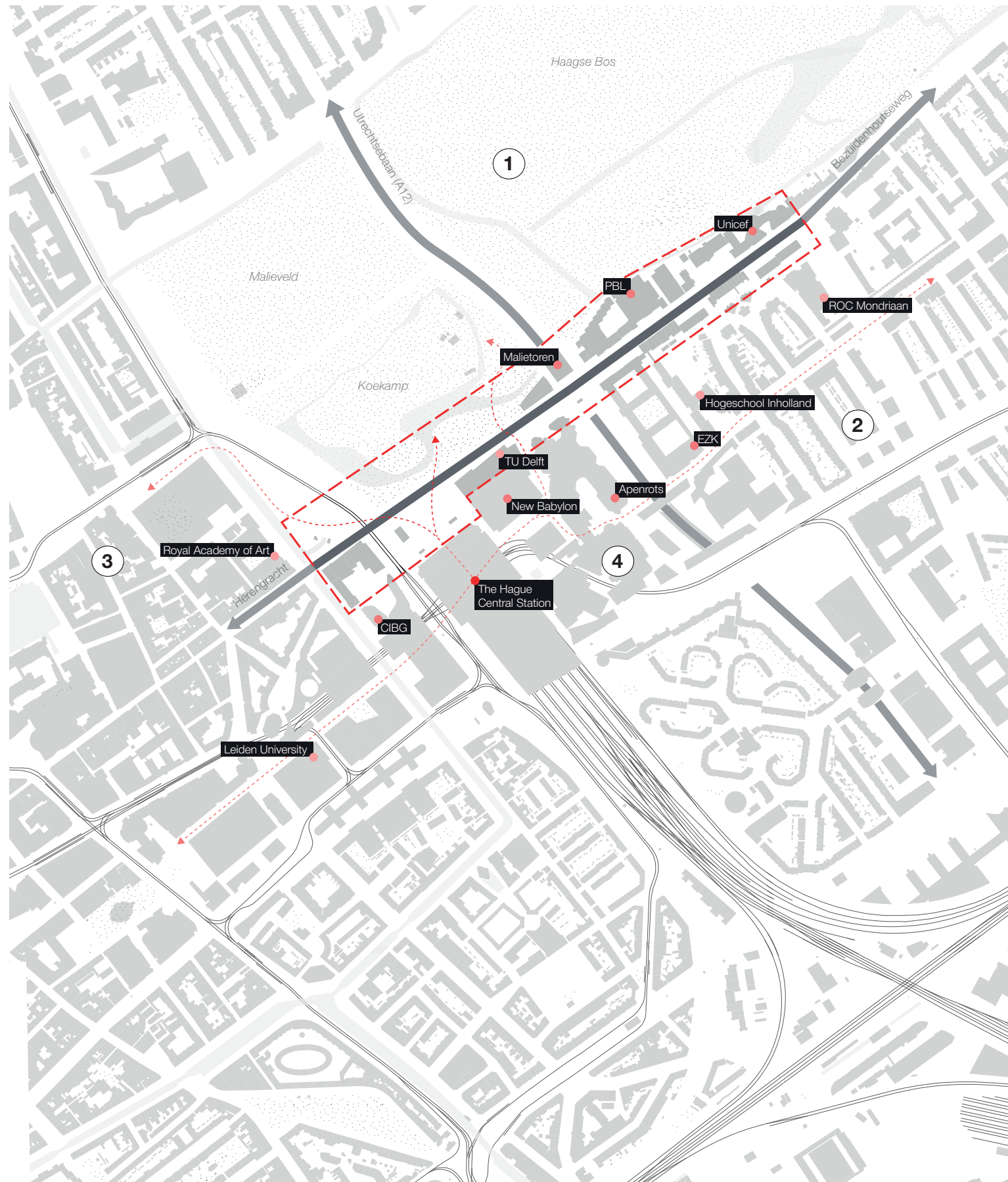
Project zones

Green border



Surroundings

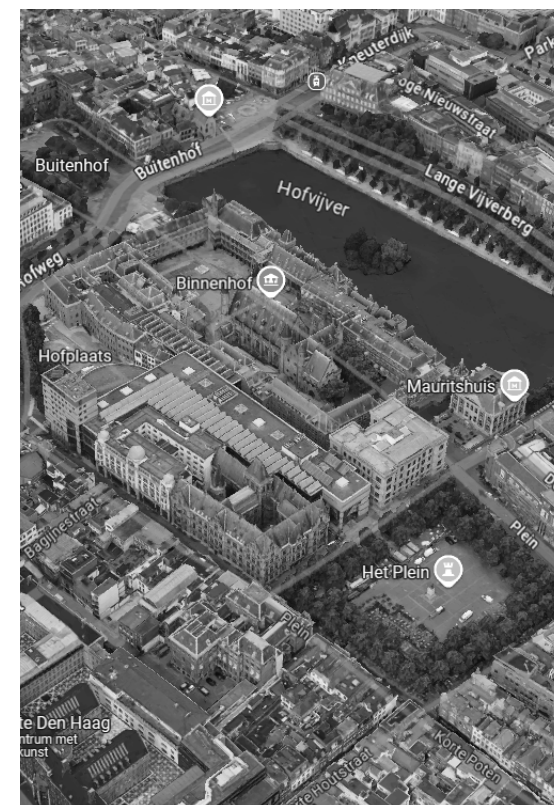
Areas



① Green



② Residential



③ City center



④ High rise area

Primary site findings

Disconnected urban fabric

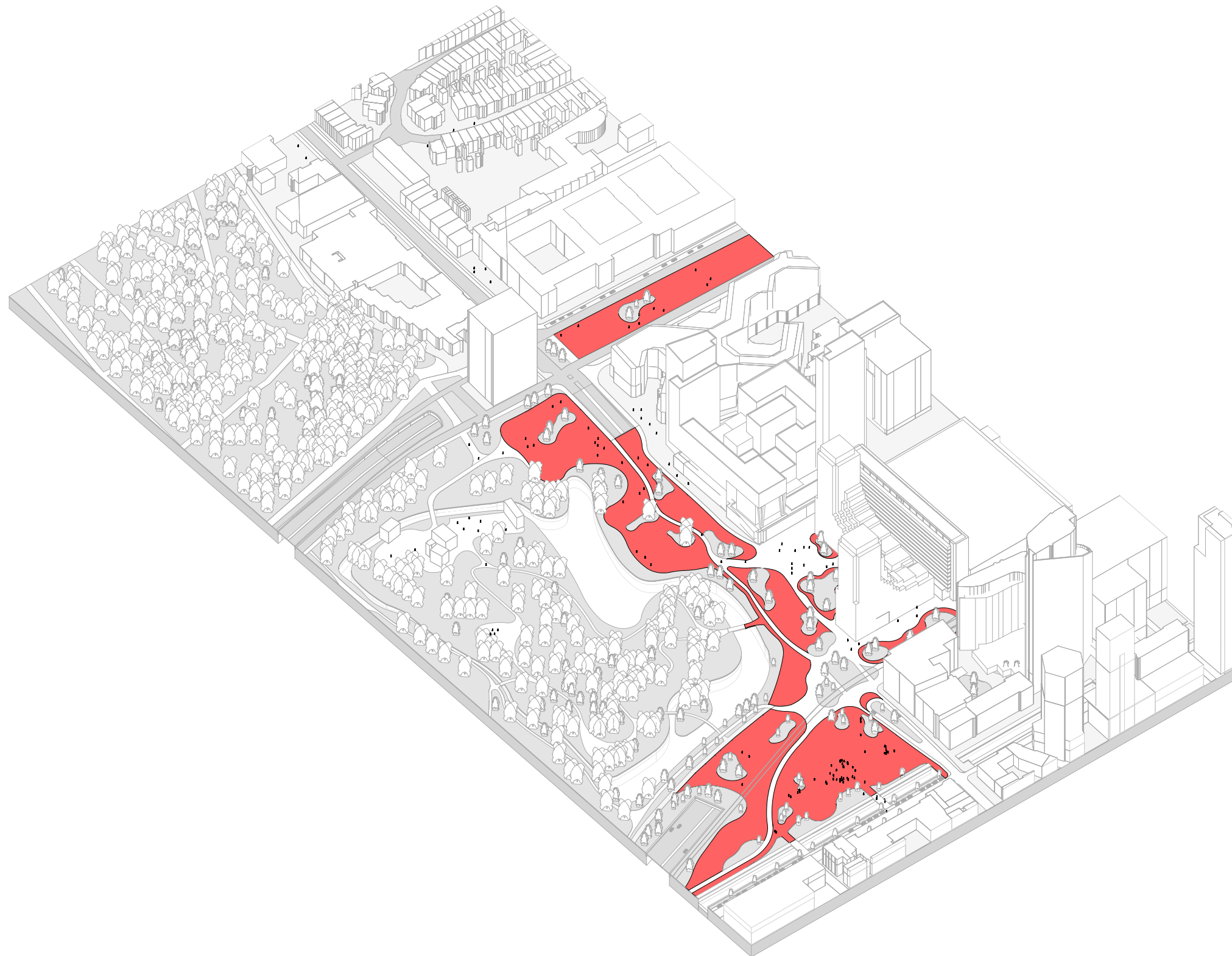


Capacity plan

Interventions

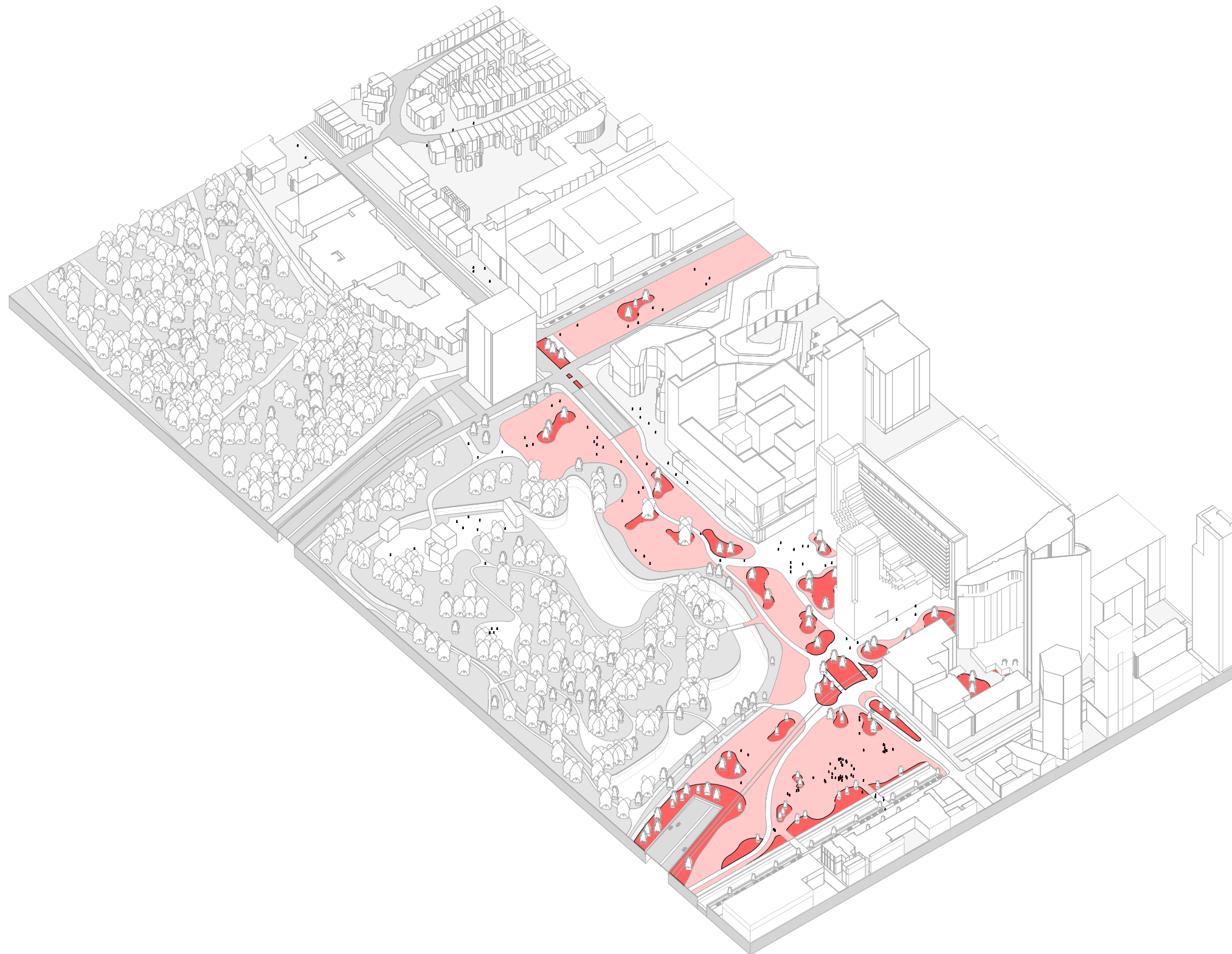
Interventions

Pedestrian zone



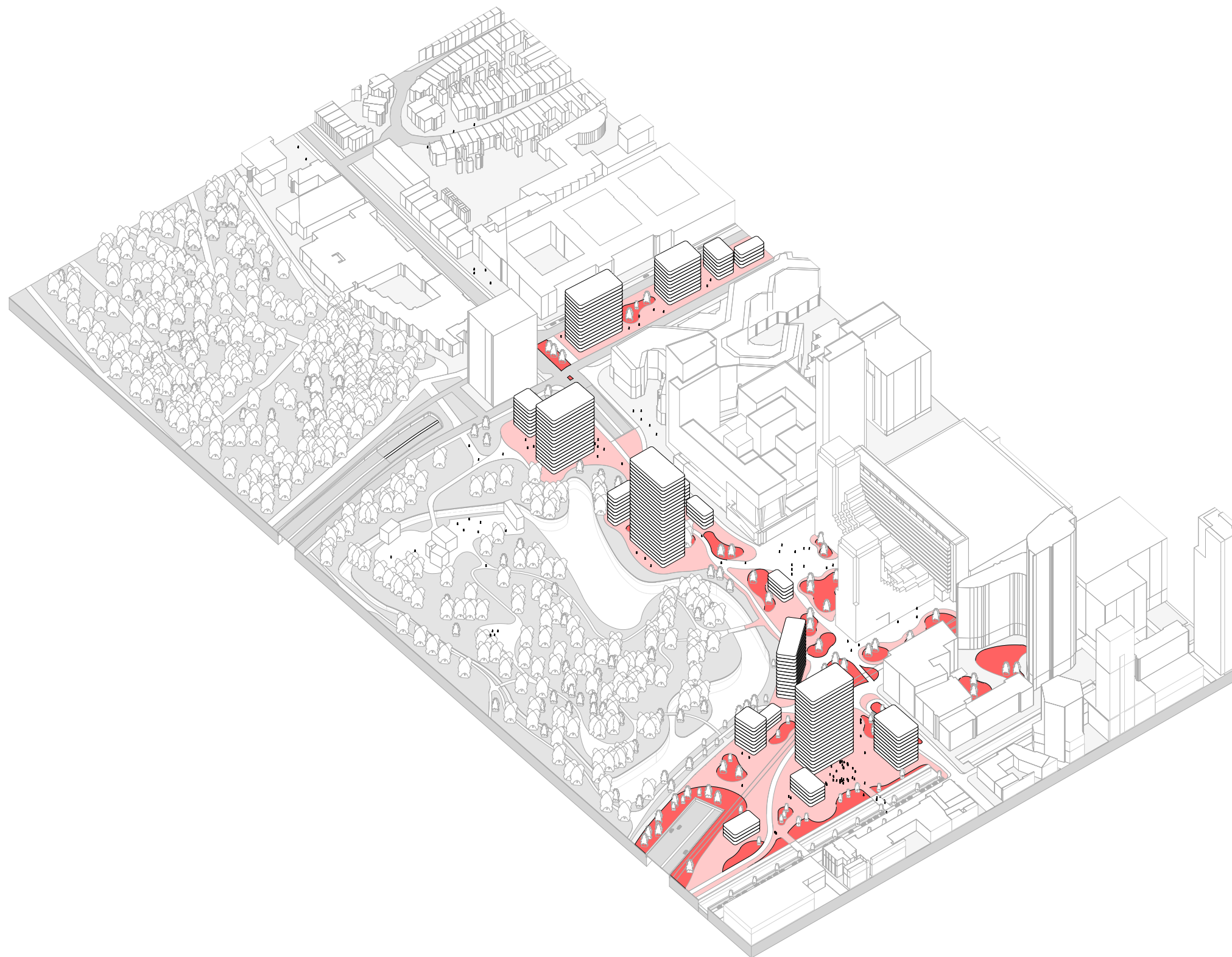
Interventions

More greenery



Interventions

Buildings of different scales

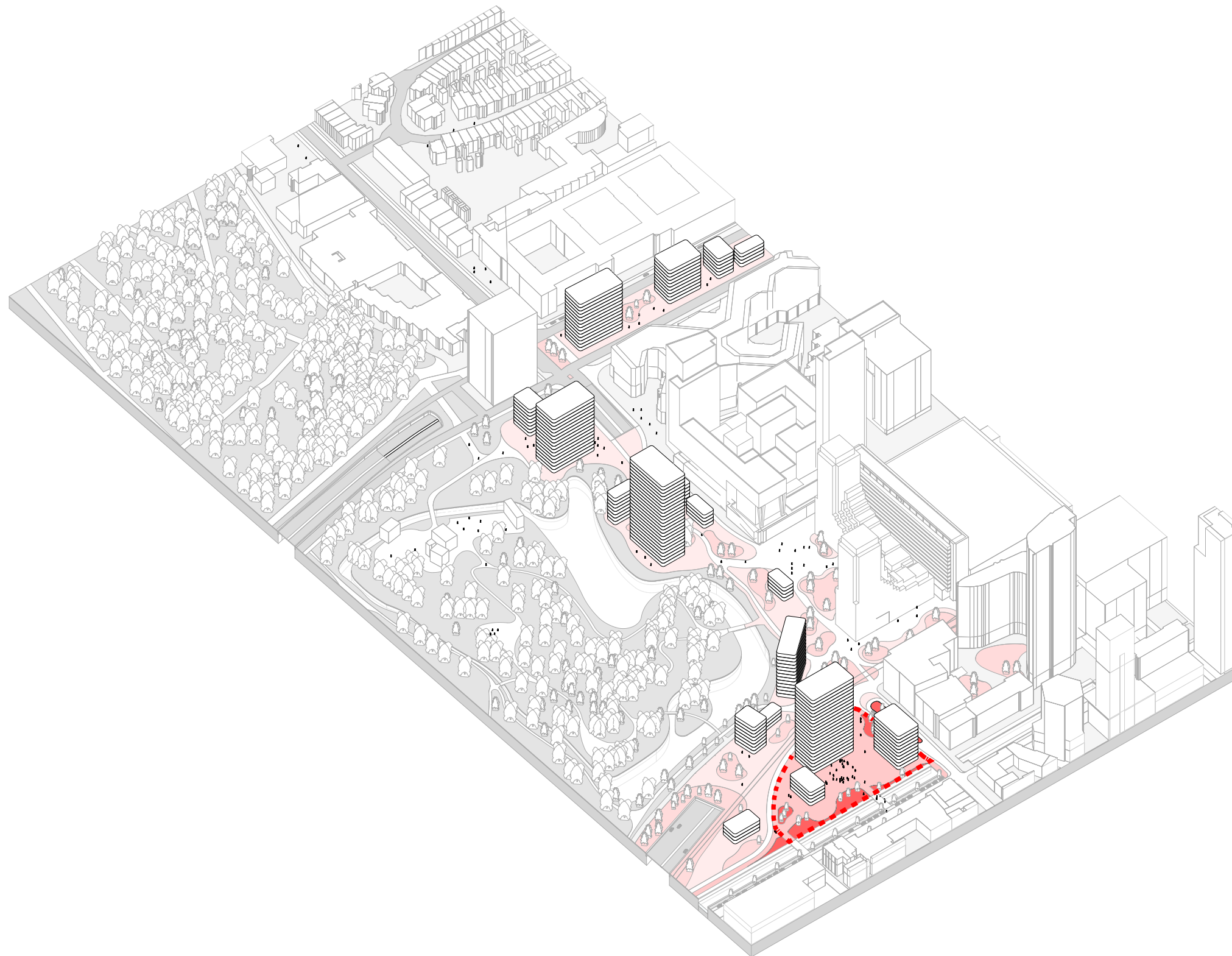


Research question

How can a **public vertical campus contribute to** and **enrich** the city of The Hague?

Chosen plot

Crossroads of different surroundings



Design goal

The design goal is to create a public **vertical campus** that **integrates** seamlessly into The Hague's **urban fabric**, fostering **social**, **cultural** and **economic vitality**.

Design framework

The design goal is to create a public **vertical campus** that **integrates** seamlessly into The Hague's **urban fabric**, fostering **social**, **cultural** and **economic vitality**.

The design will **enrich** the city through three key pillars:

Connectivity, Collaboration, and Performance.

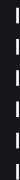
Connectivity, Collaboration, and Performance.

Refers to the physical and **social** links between campus and the surrounding urban fabric. It is achieved by creating **attractive public spaces** that invite **participation** from the **public**, and encourage interaction between different user groups.

The design goal is to create a public **vertical campus** that **integrates** seamlessly into The Hague's **urban fabric**, fostering **social**, **cultural** and **economic vitality**.

The design will **enrich** the city through three key pillars:

Connectivity, Collaboration, and Performance.



Refers to the **cooperation** and **engagement** between various user groups, bridging the gap between academic community and broader city population. It is achieved by providing shared spaces, where people can engage in **joint activities** and **exchange knowledge**.

The design goal is to create a public **vertical campus** that **integrates** seamlessly into The Hague's **urban fabric**, fostering **social**, **cultural** and **economic vitality**.

The design will **enrich** the city through three key pillars:

Connectivity, Collaboration, and Performance.

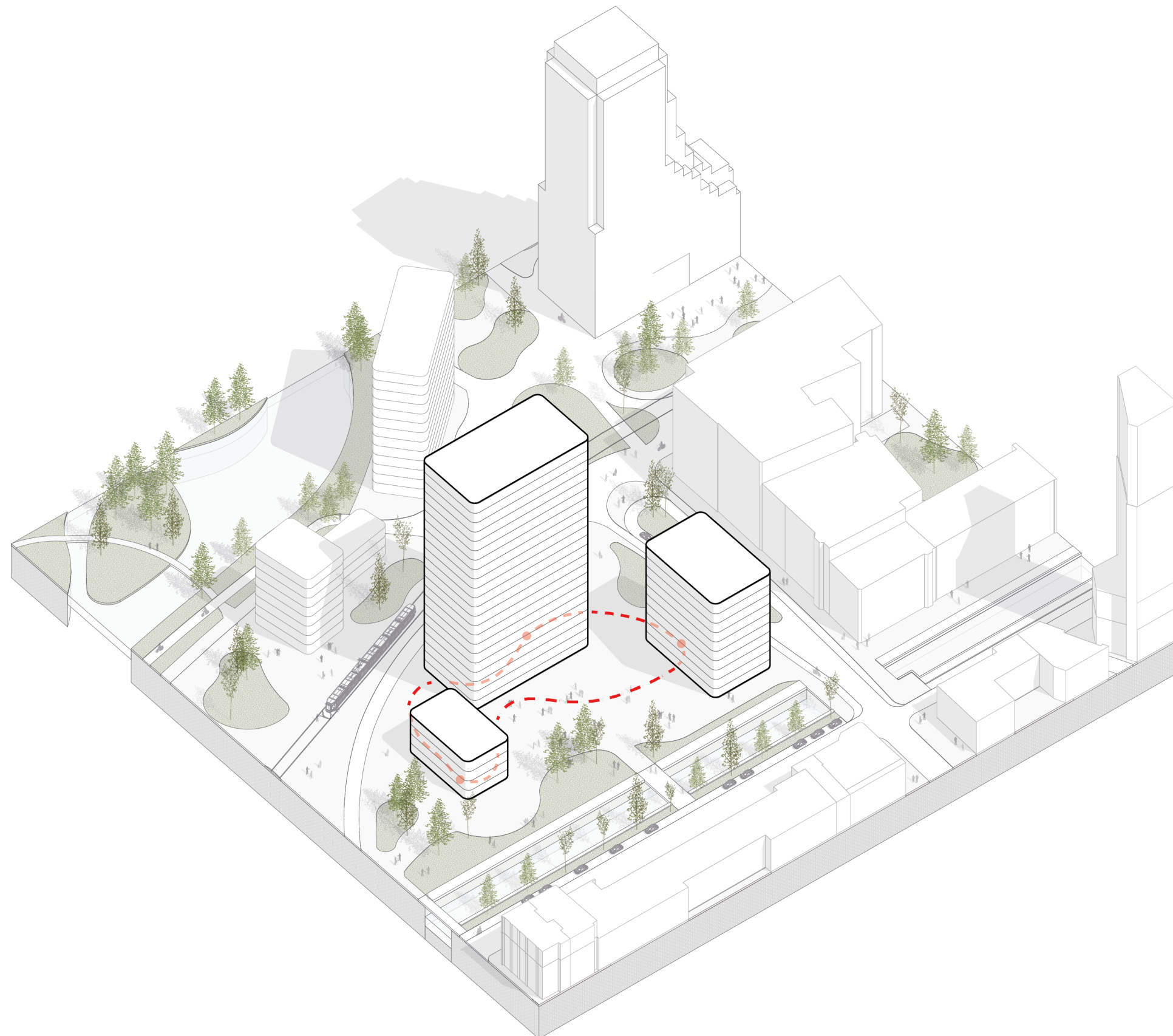
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Refers to **result-driven achievements**, presenting campus as a contributor to **innovation** and **economic growth**.

It is achieved by creating dedicated working spaces, where people can focus on **specific** and **professional** initiatives.

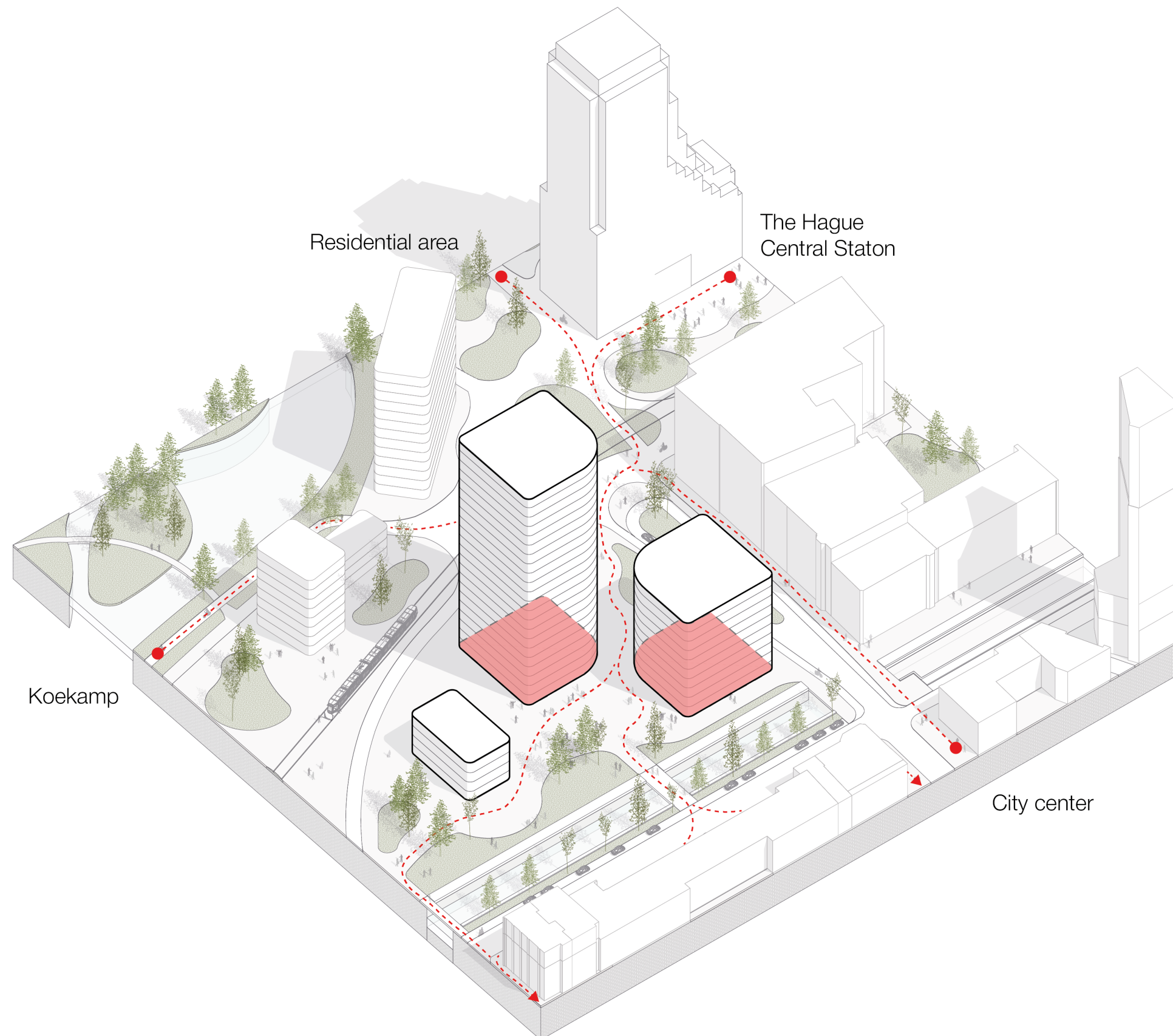
Mass evolution

Buildings of different scales promoting movement



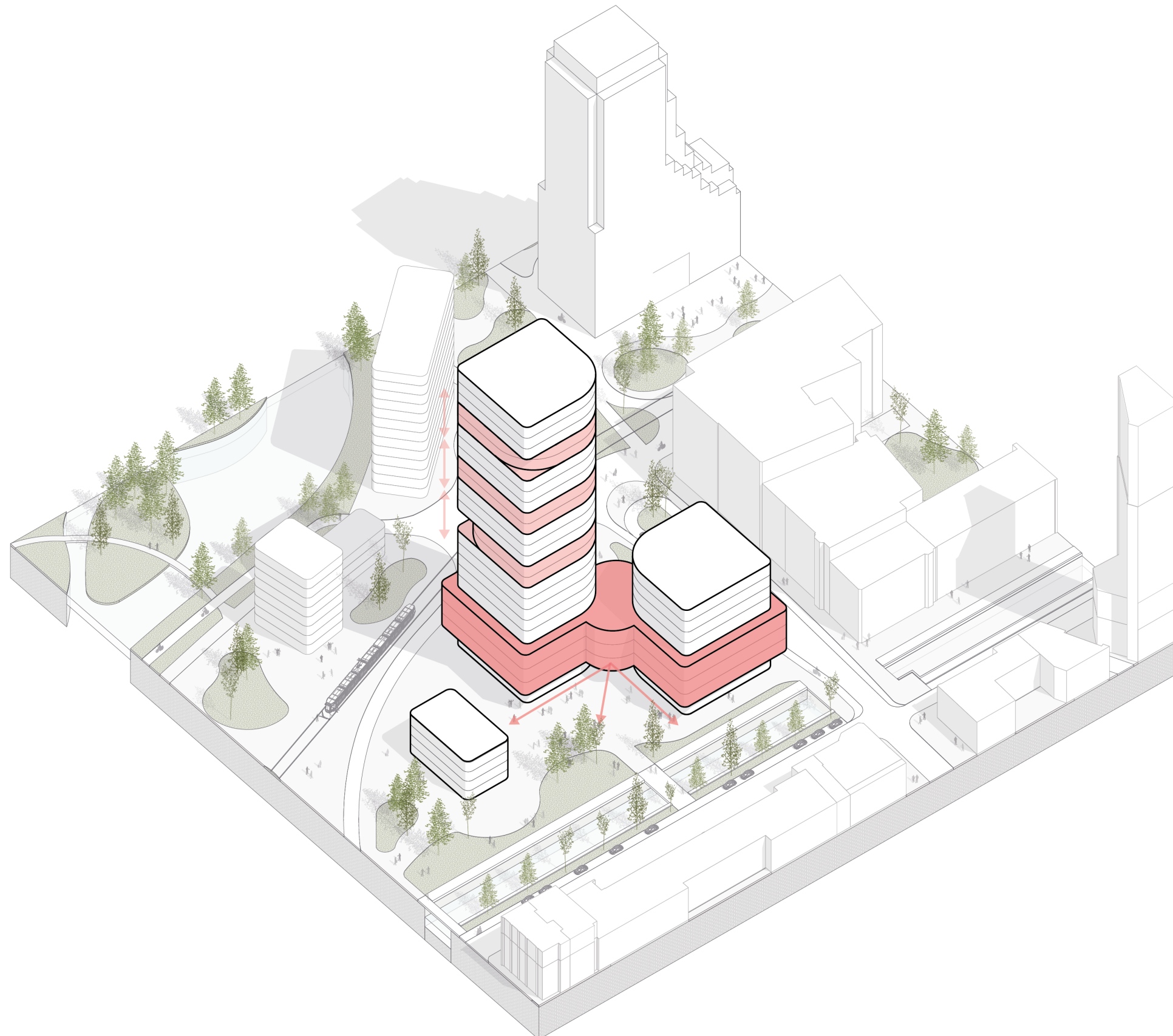
Mass evolution

Shaped footprints integrating in the urban fabric



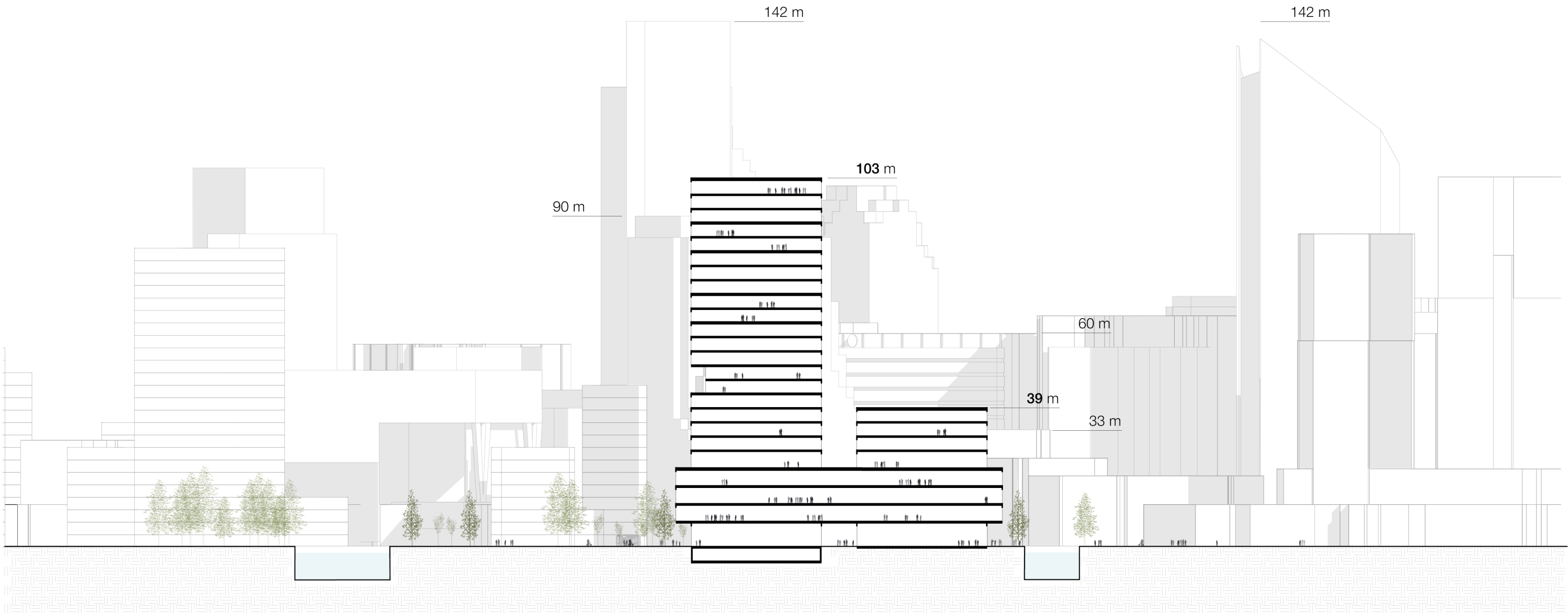
Mass evolution

Connective center, in-between spaces



Urban context

Height relations



Translation to design

Spatial organization

Public space

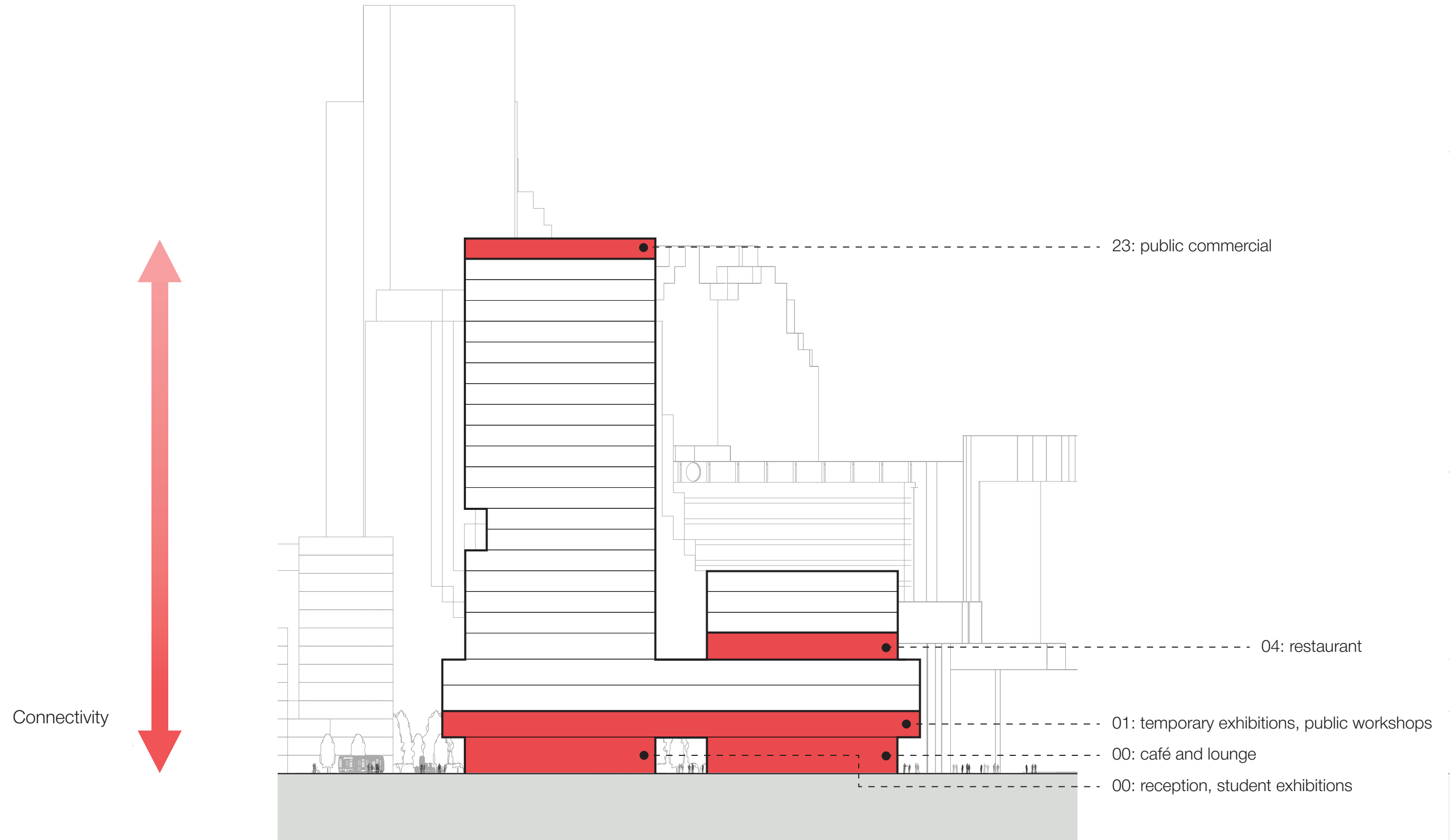
Personas

Floor plans

Section

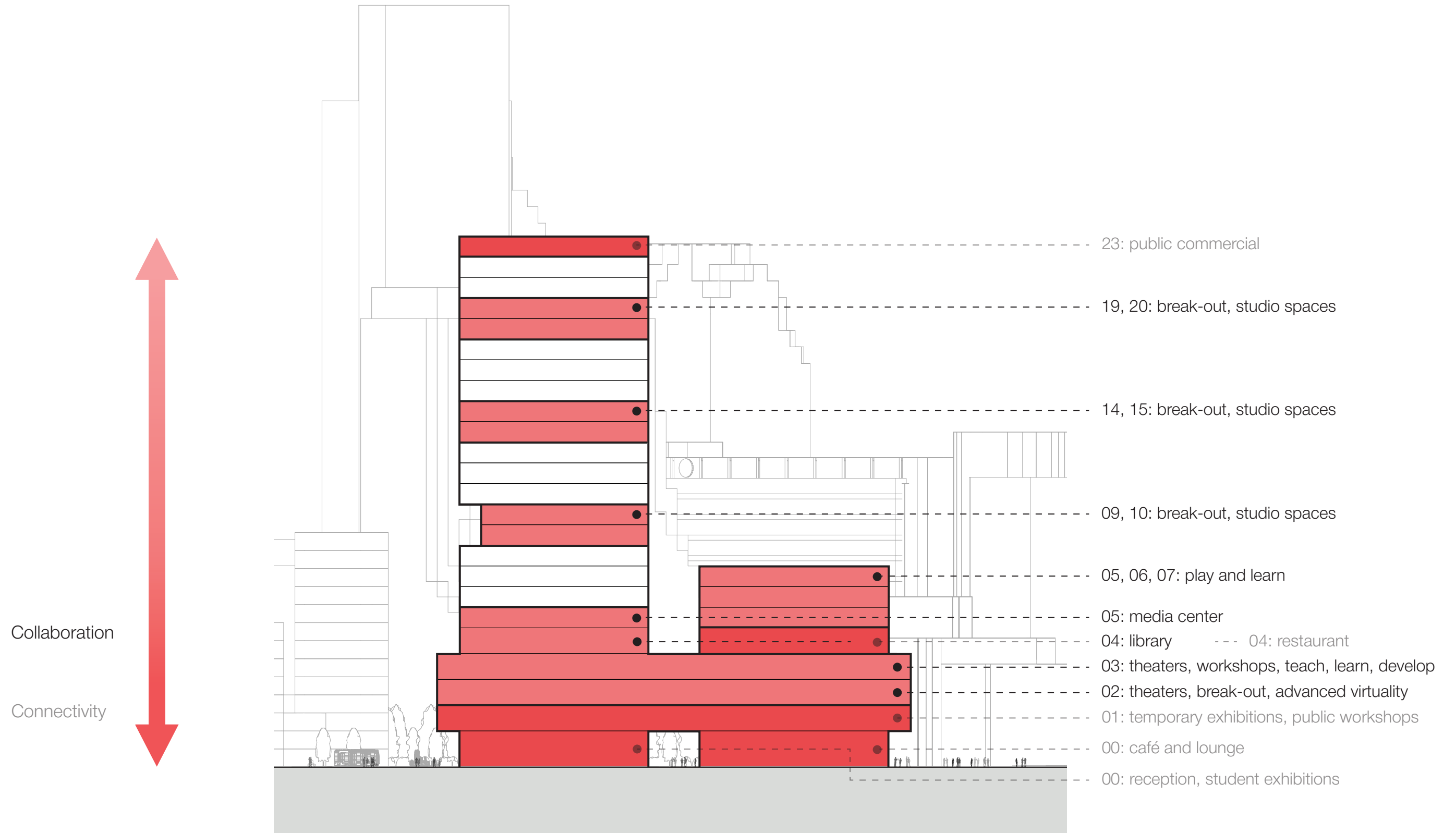
Spatial organization

Connectivity: public spaces - participation from public



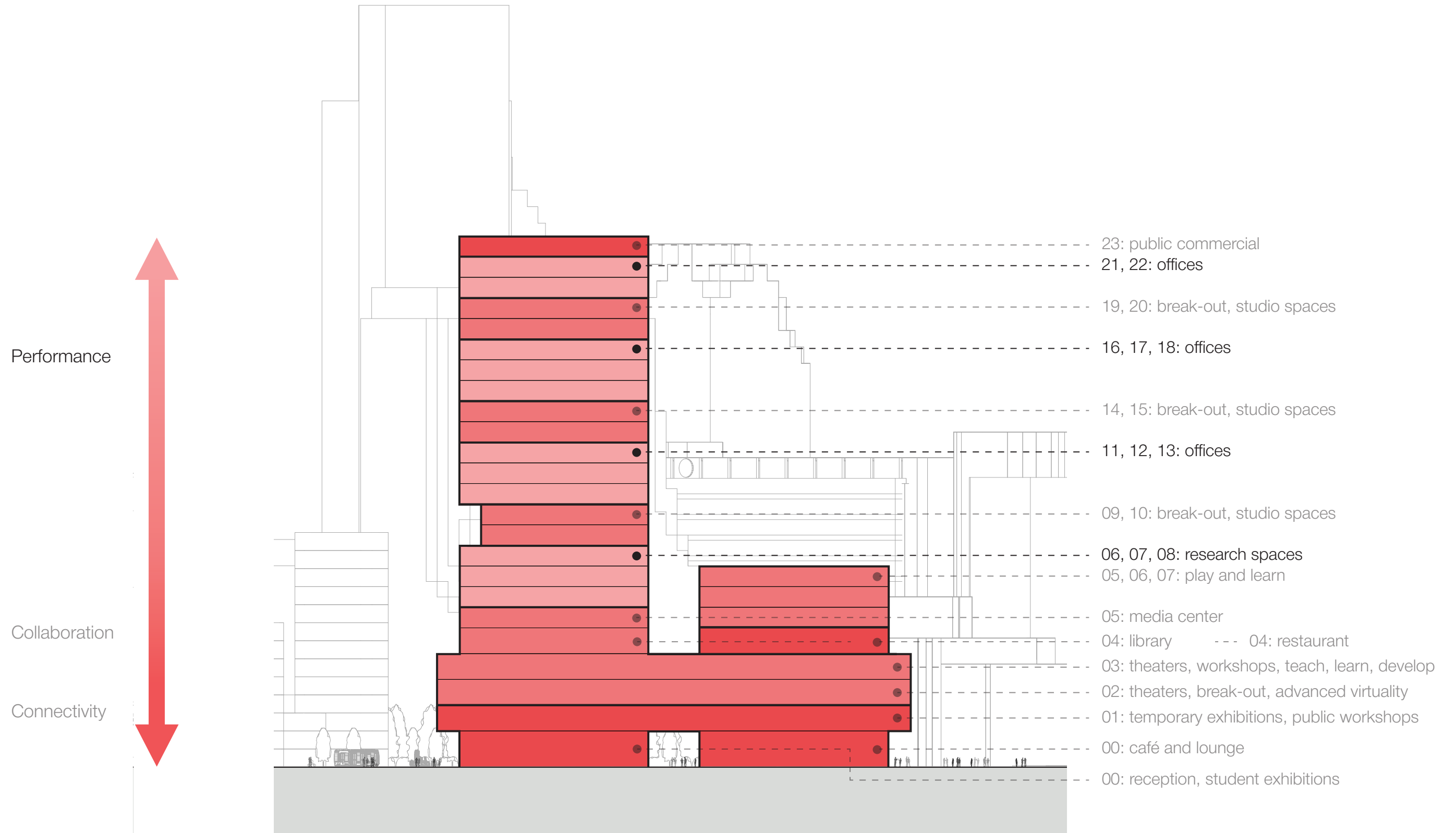
Spatial organization

Collaboration: shared spaces - joint activites, exchange knowledge



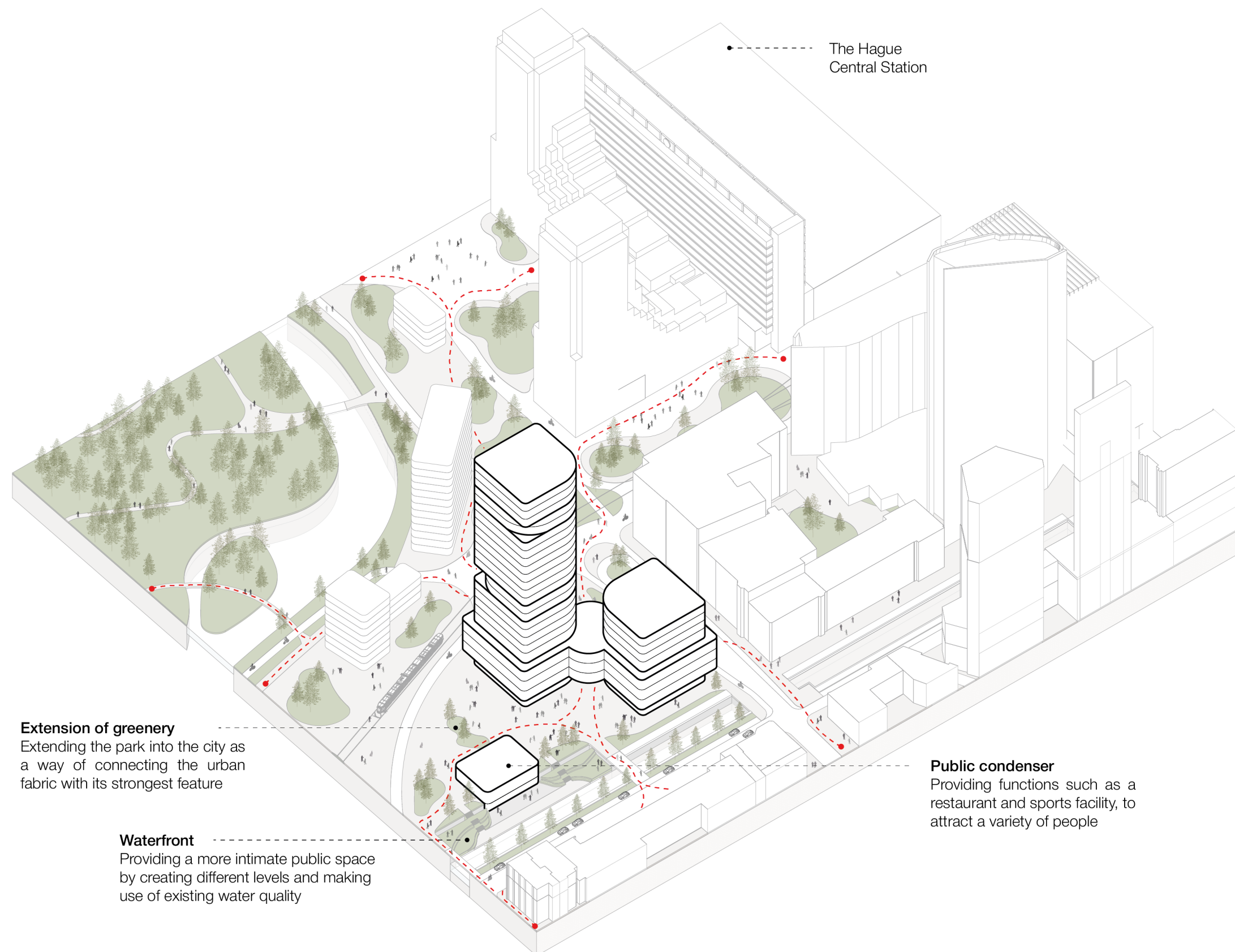
Spatial organization

Performance: dedicated working spaces - specific and professional matters



Public space

Connectivity starts in public space: attracting foot traffic, inviting participation from the public



Extension of greenery

Extending the park into the city as a way of connecting the urban fabric with its strongest feature

Waterfront

Providing a more intimate public space by creating different levels and making use of existing water quality

Public condenser

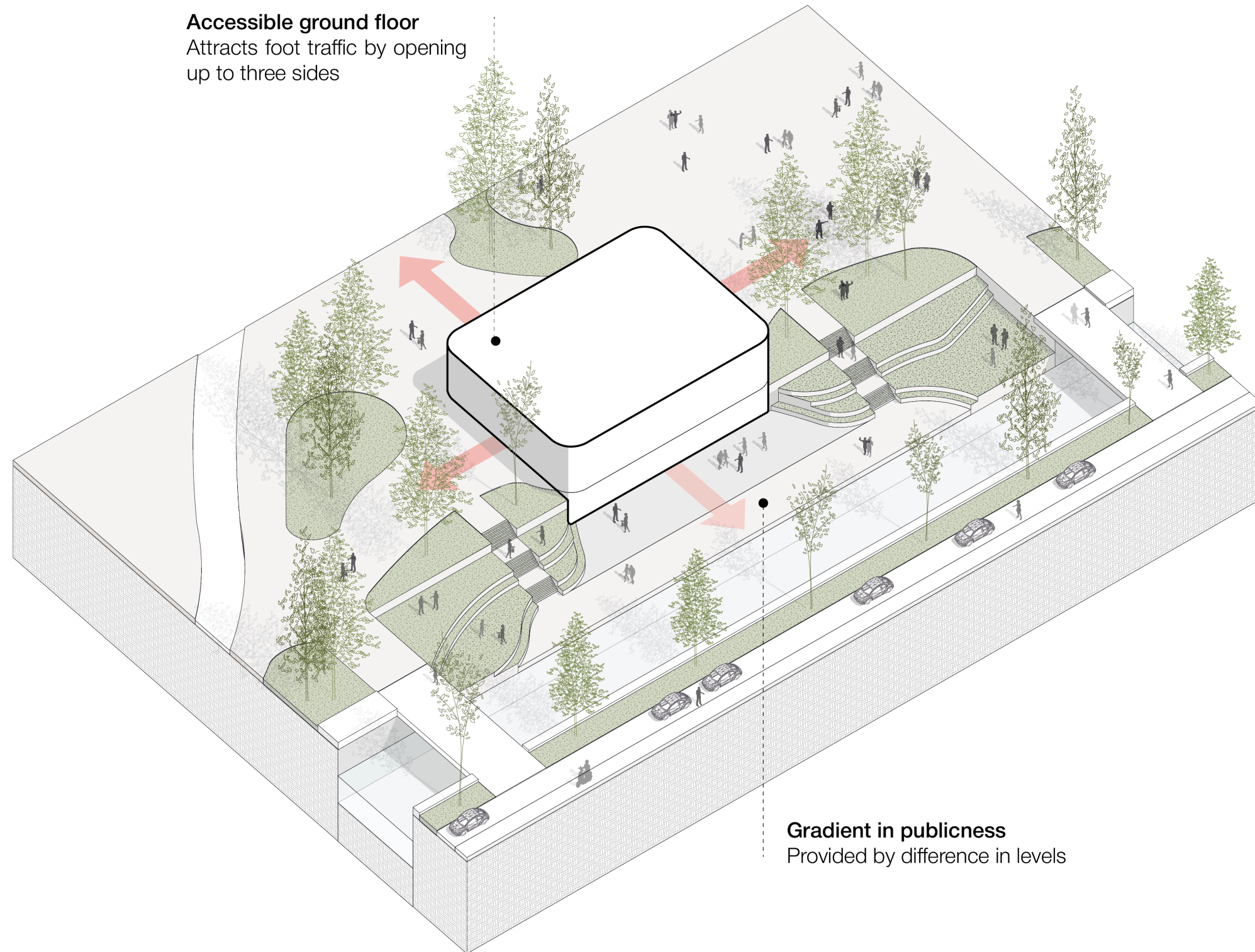
Providing functions such as a restaurant and sports facility, to attract a variety of people

Public space

Waterfront

Accessible ground floor

Attracts foot traffic by opening up to three sides

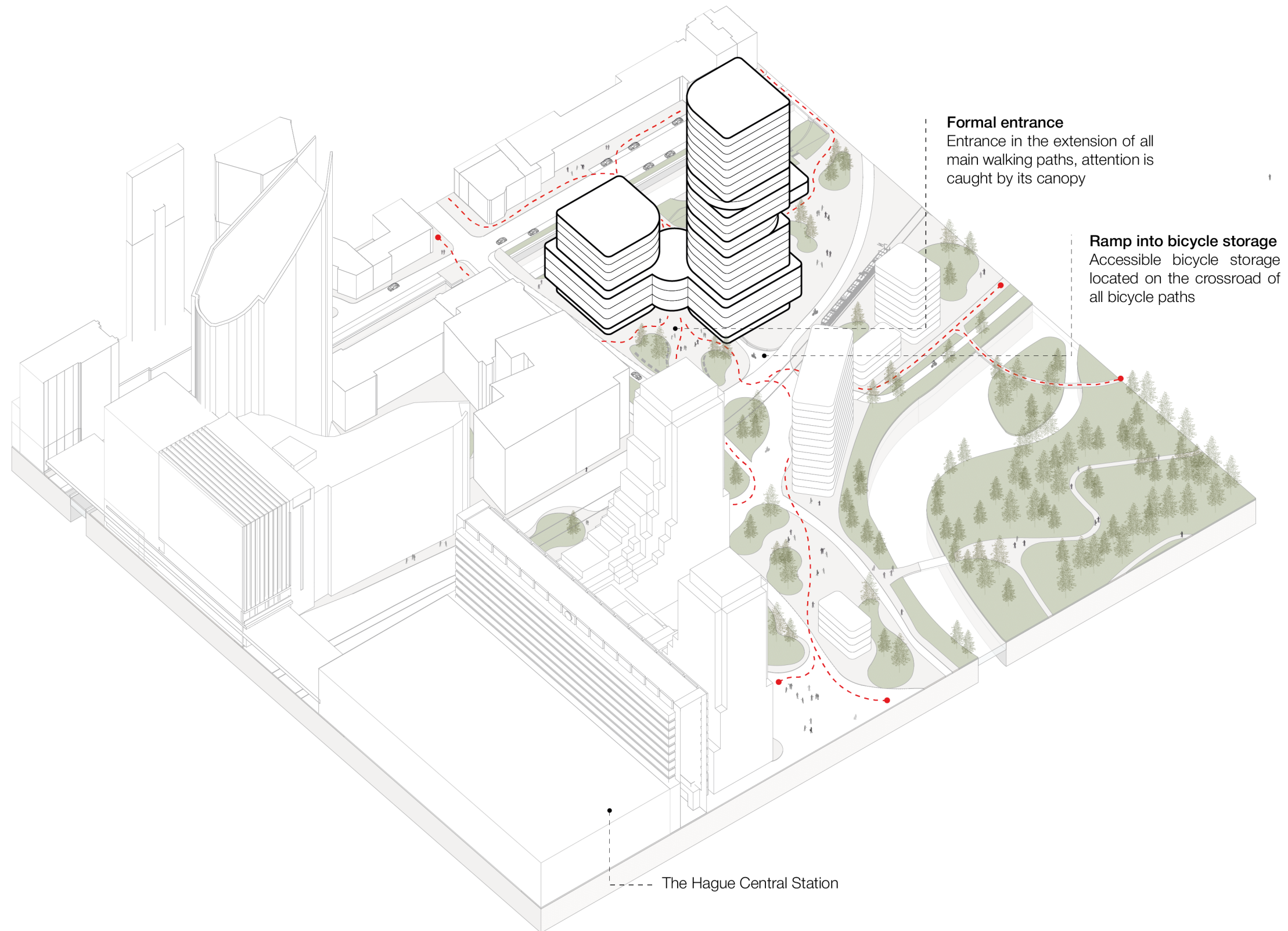


Gradient in publicness

Provided by difference in levels

Public space

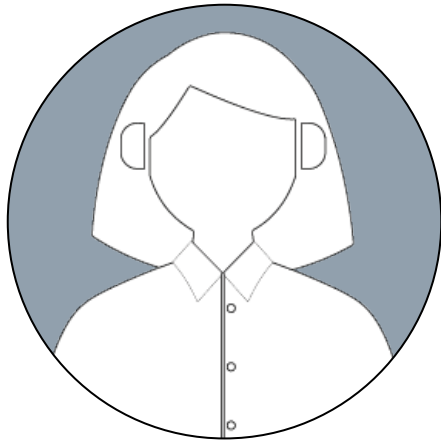
Connectivity starts in public space: attracting foot traffic, inviting participation from the public





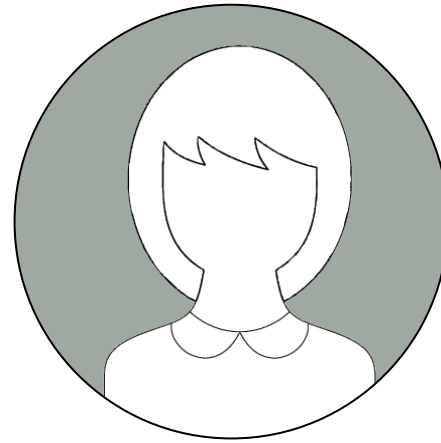
Personas

Who are the user groups?



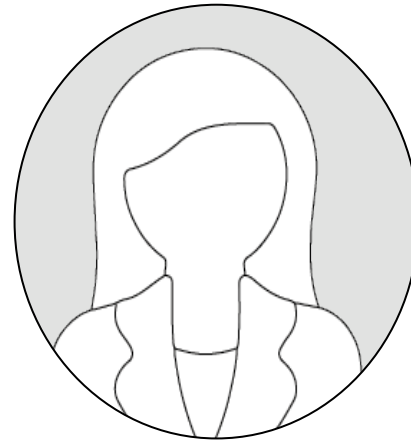
Student

Sofia Bianchi, 25 years old



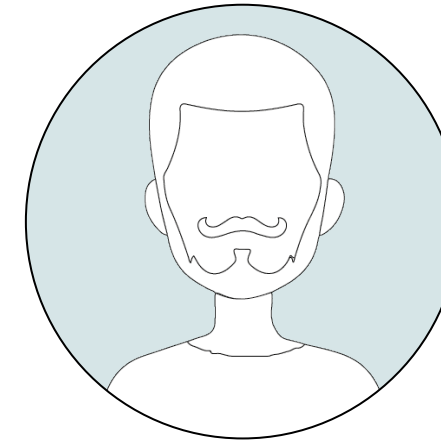
Teacher

Kim Jansen, 38 years old



Office worker

Linda Visser, 48 years old



Cultural worker

David Bos, 29 years old



Resident

Martin van Dijk, 34 years old



Legend

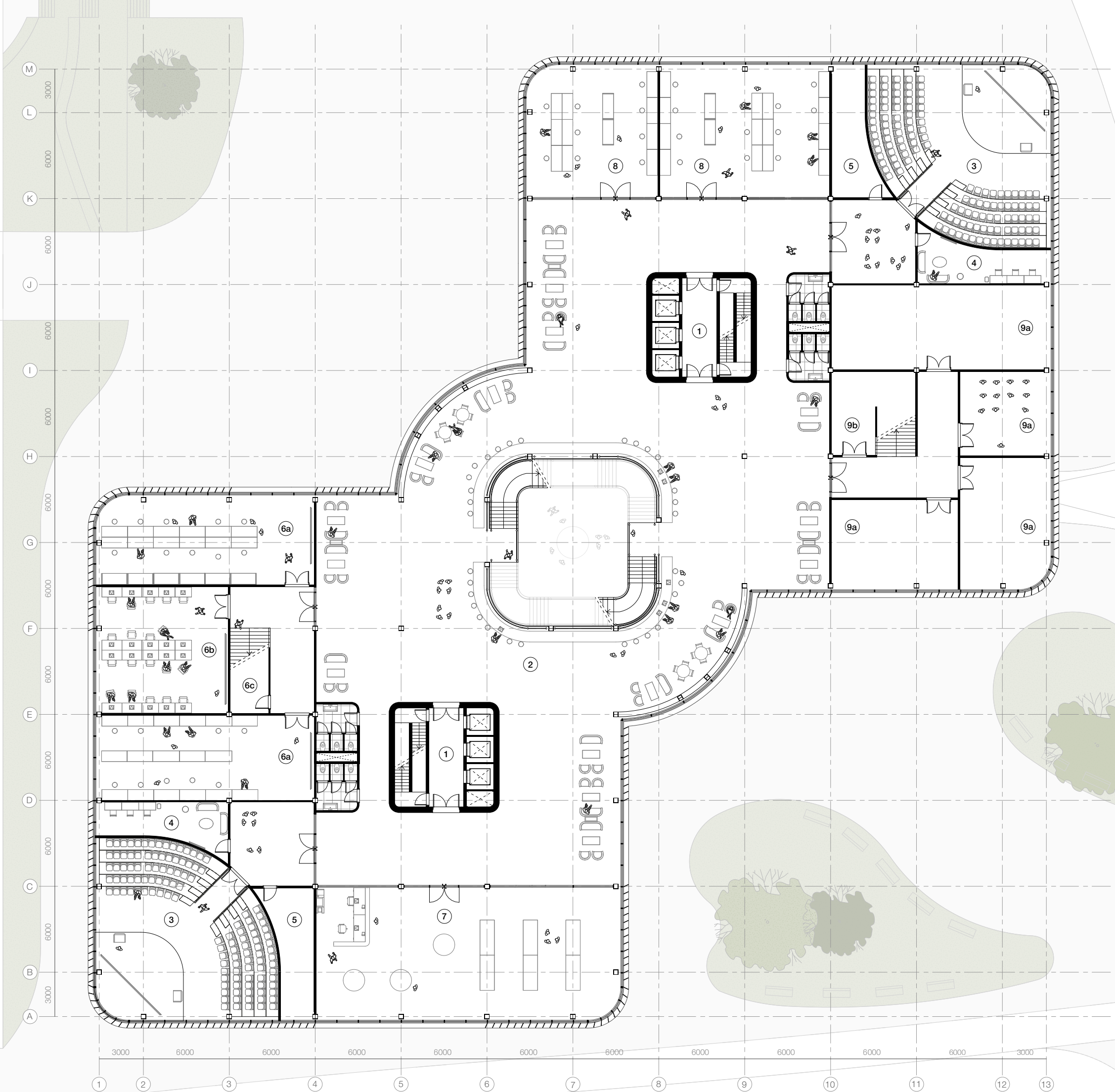
- ① Entrance
- ② Lobby
- ③ Reception
- ④ Storage
- ⑤ Lift lobby
- ⑥ Student exhibition
- ⑦ Exhibition storage
- ⑧ Café
- ⑨ Café back of house
- ⑩ Seating area





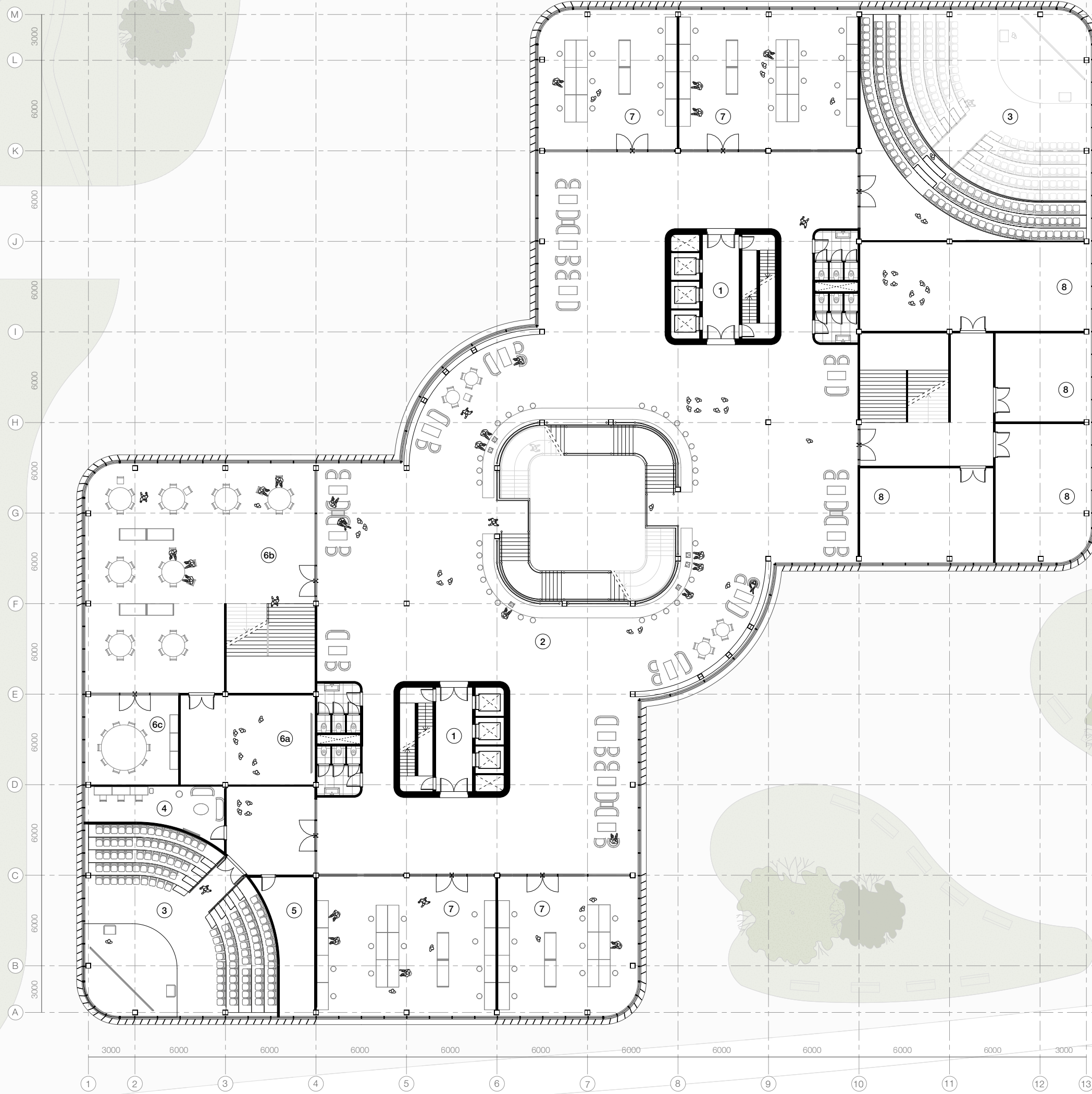
Legend

- ① Lift lobby
- ② Foyer
- ③ Temporary exhibitions
- ④ Exhibition shop
- ⑤ Workshop
- ⑥ Group workshop space



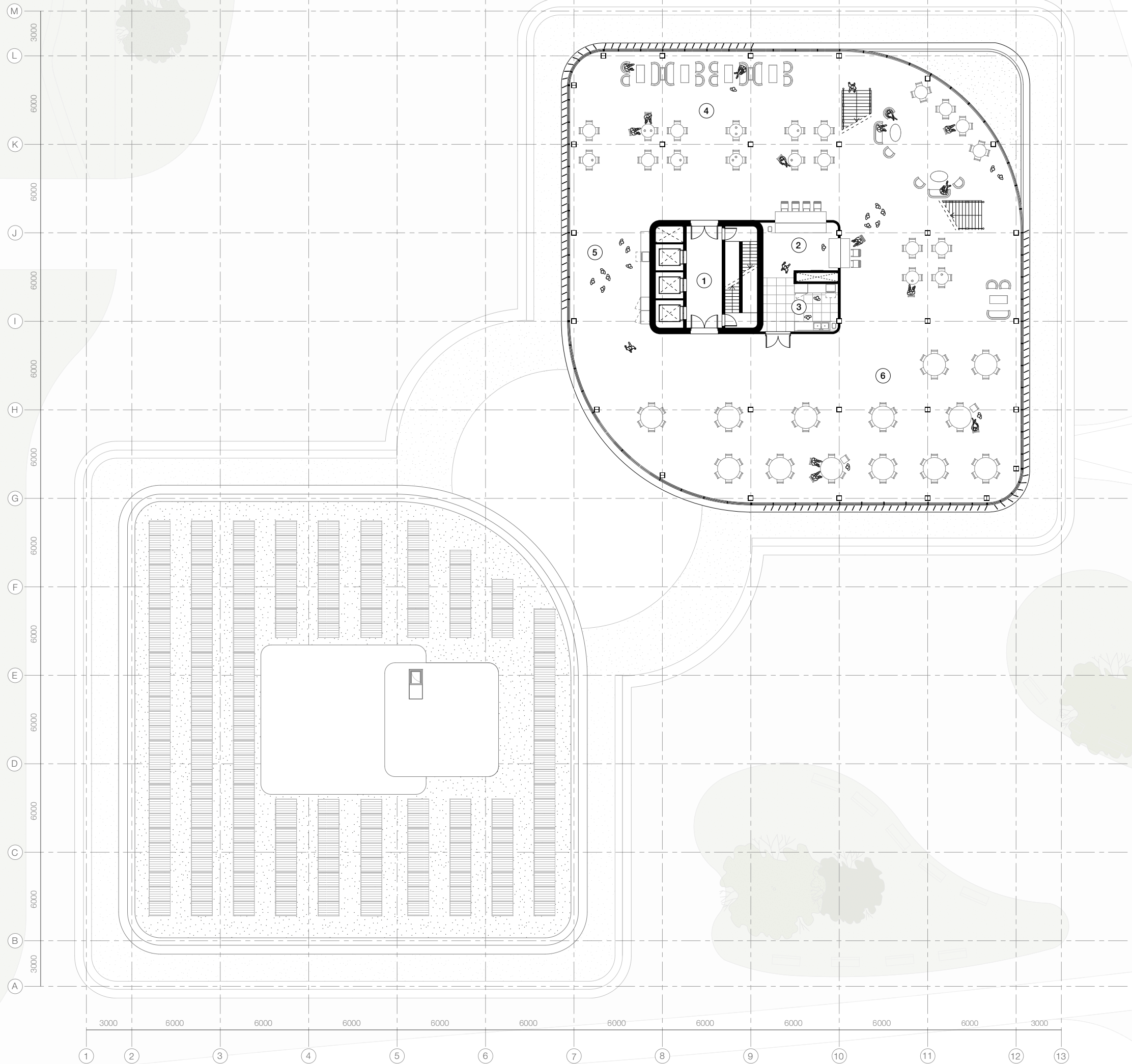
Legend

- ① Lift lobby
- ② Central working space
- ③ Theater
- ④ Dressing room
- ⑤ Projector room
- ⑥a AV: Lab
- ⑥b AV: High performance computers
- ⑥c AV: Storage
- ⑦ Materials shop
- ⑧ Workshop
- ⑨a TLD: Enclosed room
- ⑨b TLD: Storage



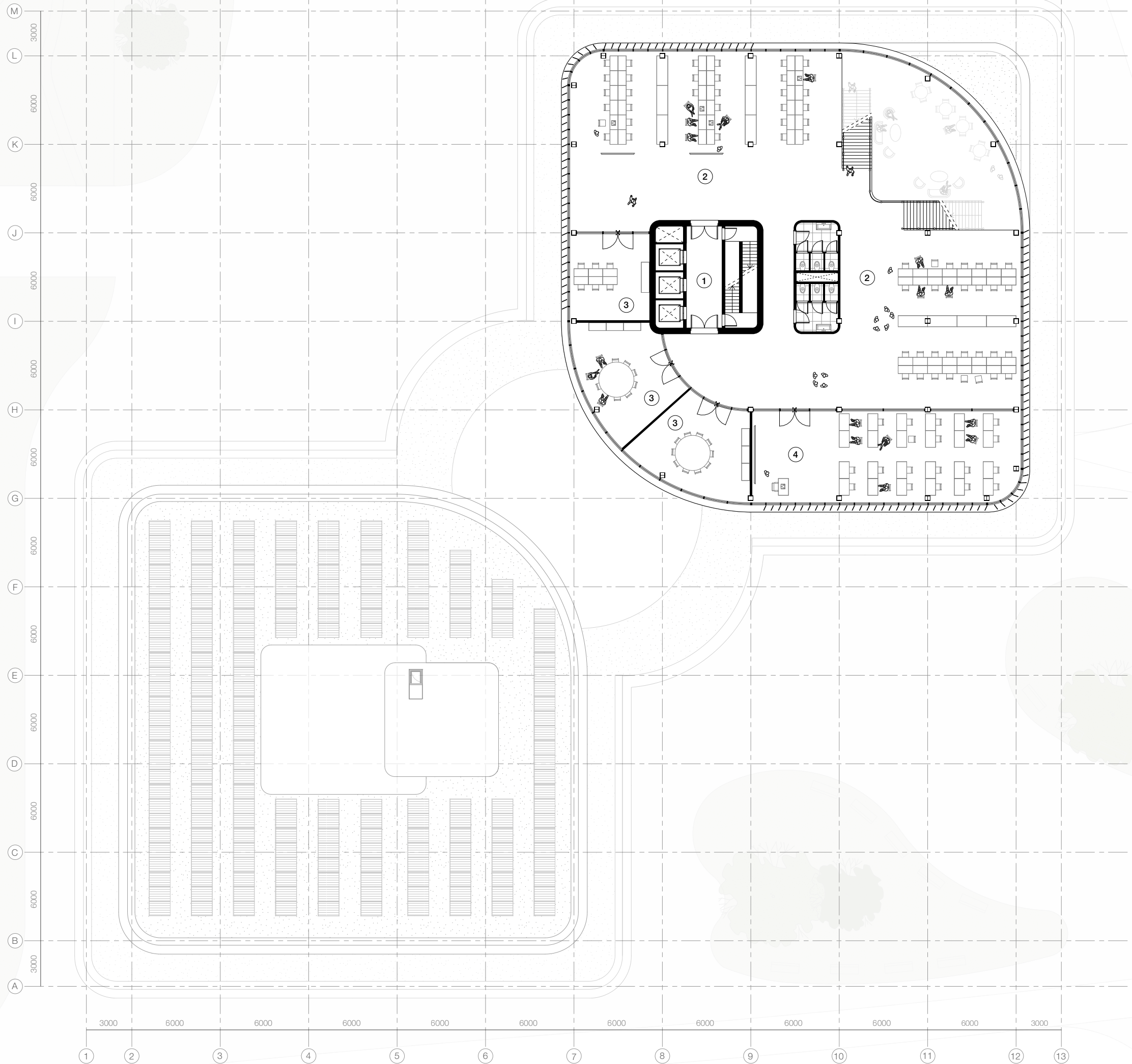
- Legend**
- ① Lift lobby
 - ② Central working space
 - ③ Theater
 - ④ Dressing room
 - ⑤ Projector room
 - ⑥a AV: Simulation room
 - ⑥b AV: Open breakout area
 - ⑥c AV: Meeting room
 - ⑦ Workshop
 - ⑧ TLD: Enclosed room





Legend

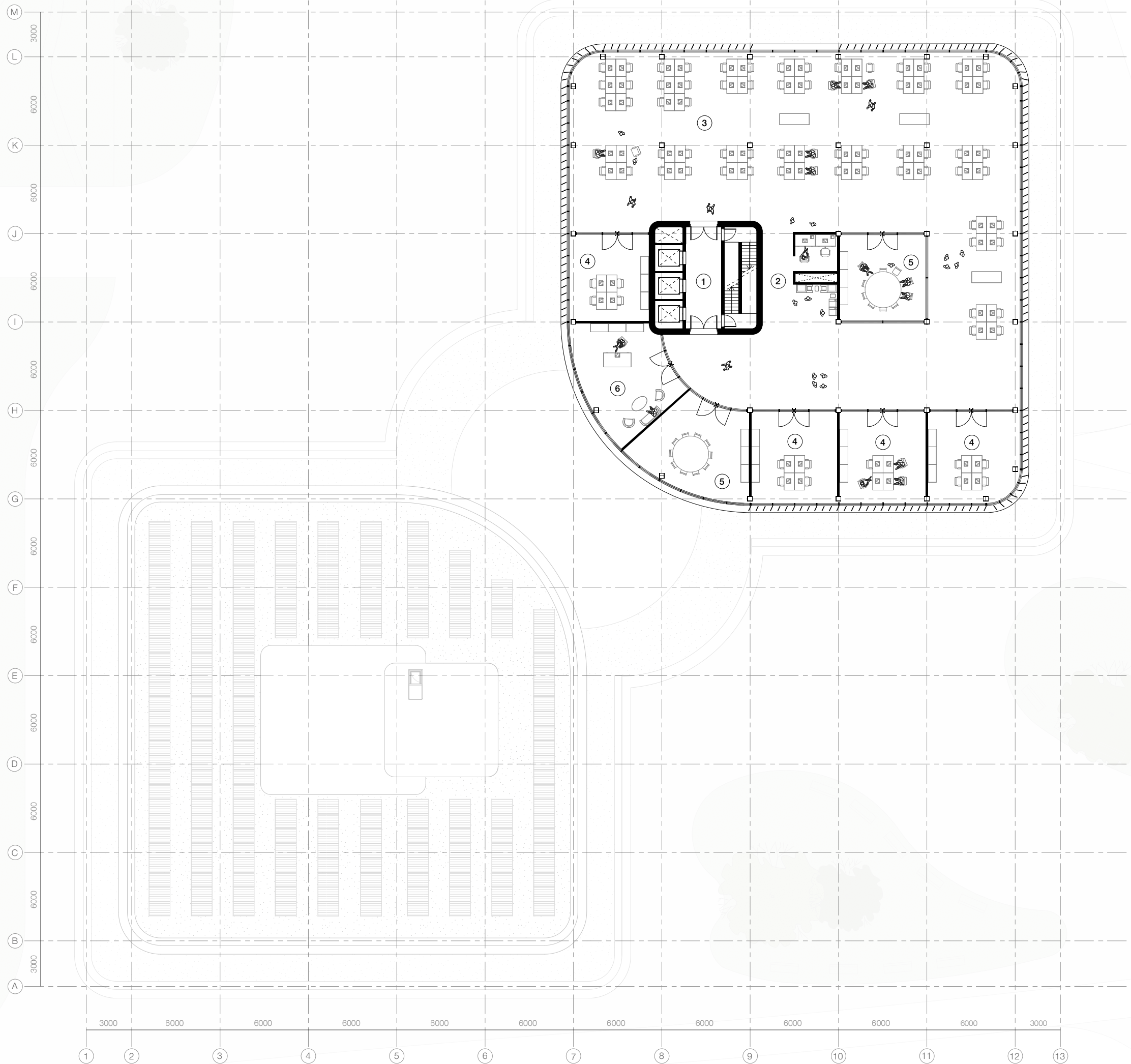
- ① Lift lobby
- ② Canteen
- ③ Canteen back of house
- ④ Seating area
- ⑤ Kitchenette
- ⑥ Informal meeting area



Legend

- ① Lift lobby
- ② Open breakout area
- ③ Meeting room
- ④ Presentation room

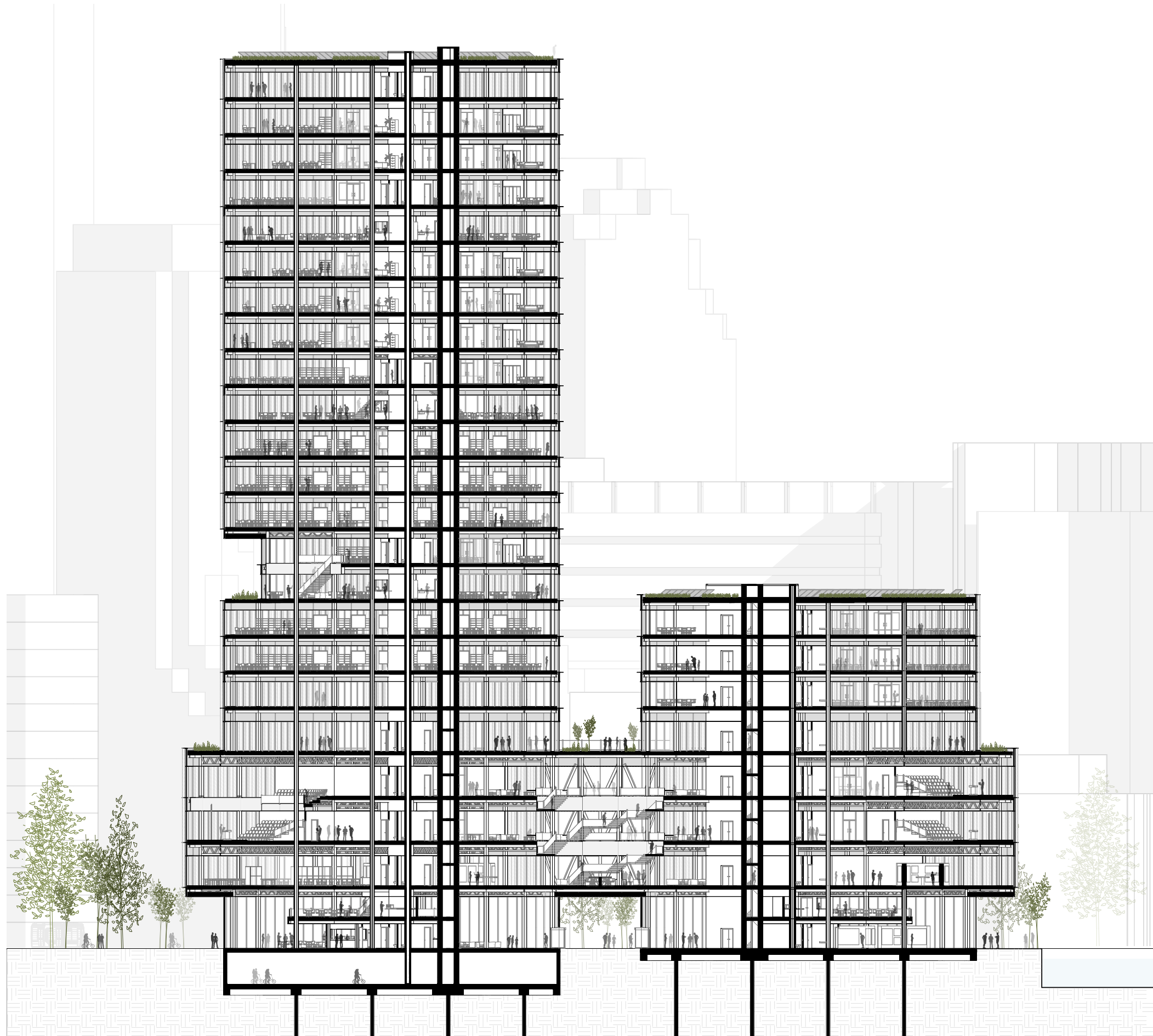




Legend

- ① Lift lobby
- ② Reception and services
- ③ Open office area
- ④ Enclosed office
- ⑤ Meeting room
- ⑥ Chief room

Section



Technical Building Design

Climate concept

Materialization

Facade fragment

Details

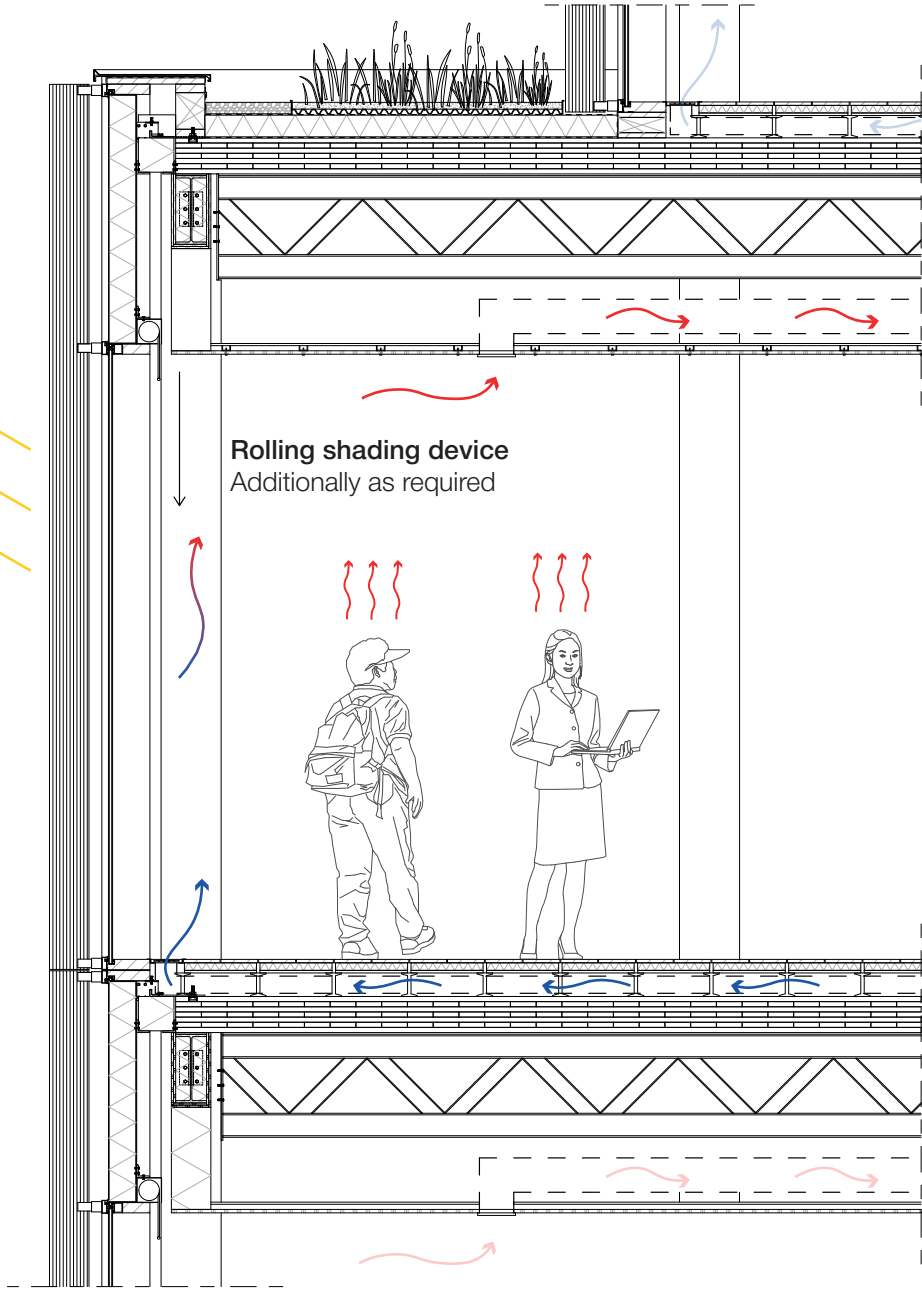
Climate concept



Climate concept

Summer

Solar radiation
Regulated by
vertical louvers



Rolling shading device
Additionally as required

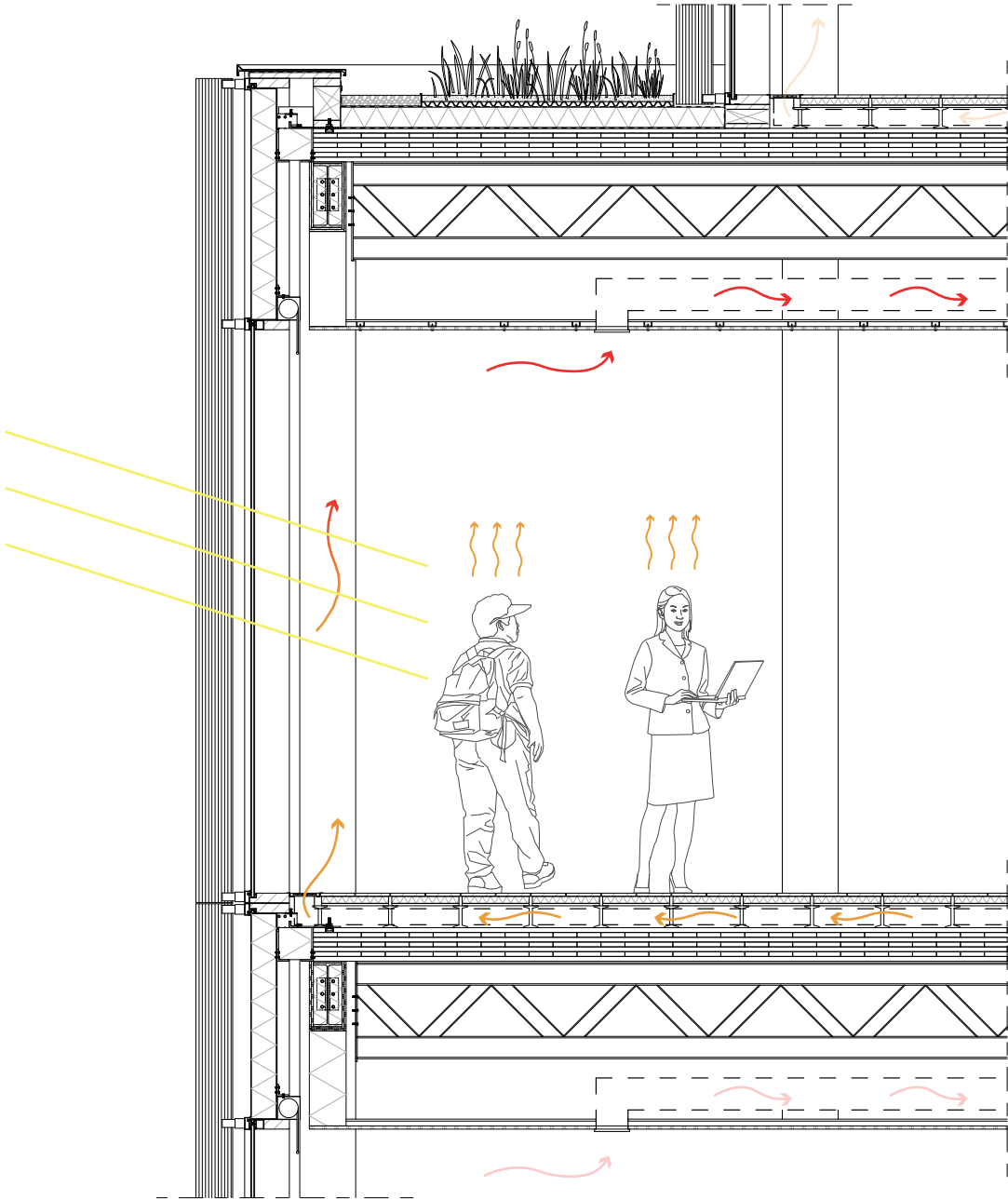
Return air
Through suspended
ceiling system

Supply air
Cooled air through
raised floor system

Climate concept

Winter

Solar radiation
Let through by
vertical louvers

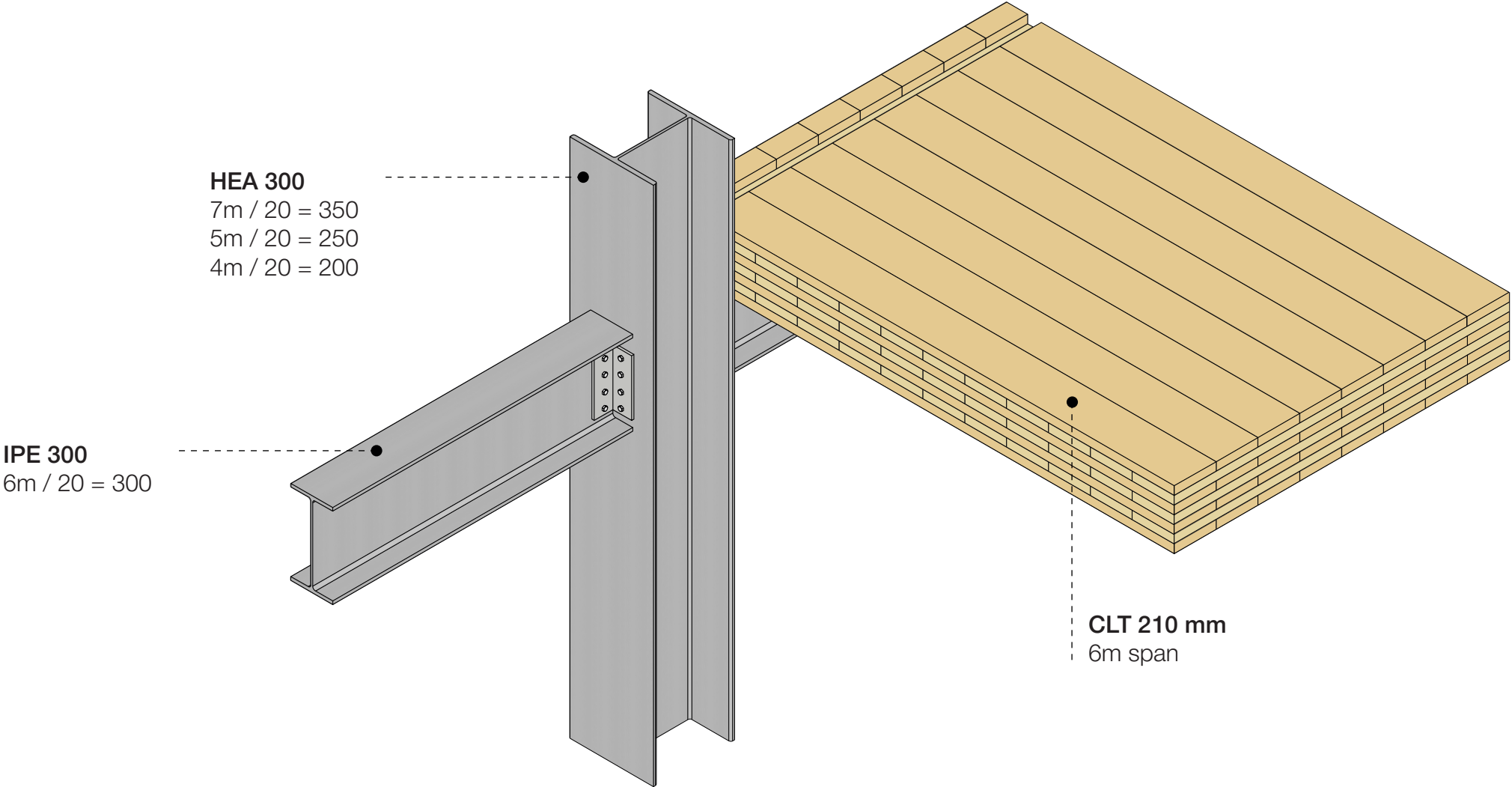


Return air
Through suspended
ceiling system

Supply air
Heated air through
raised floor system

Materialization

Hybrid

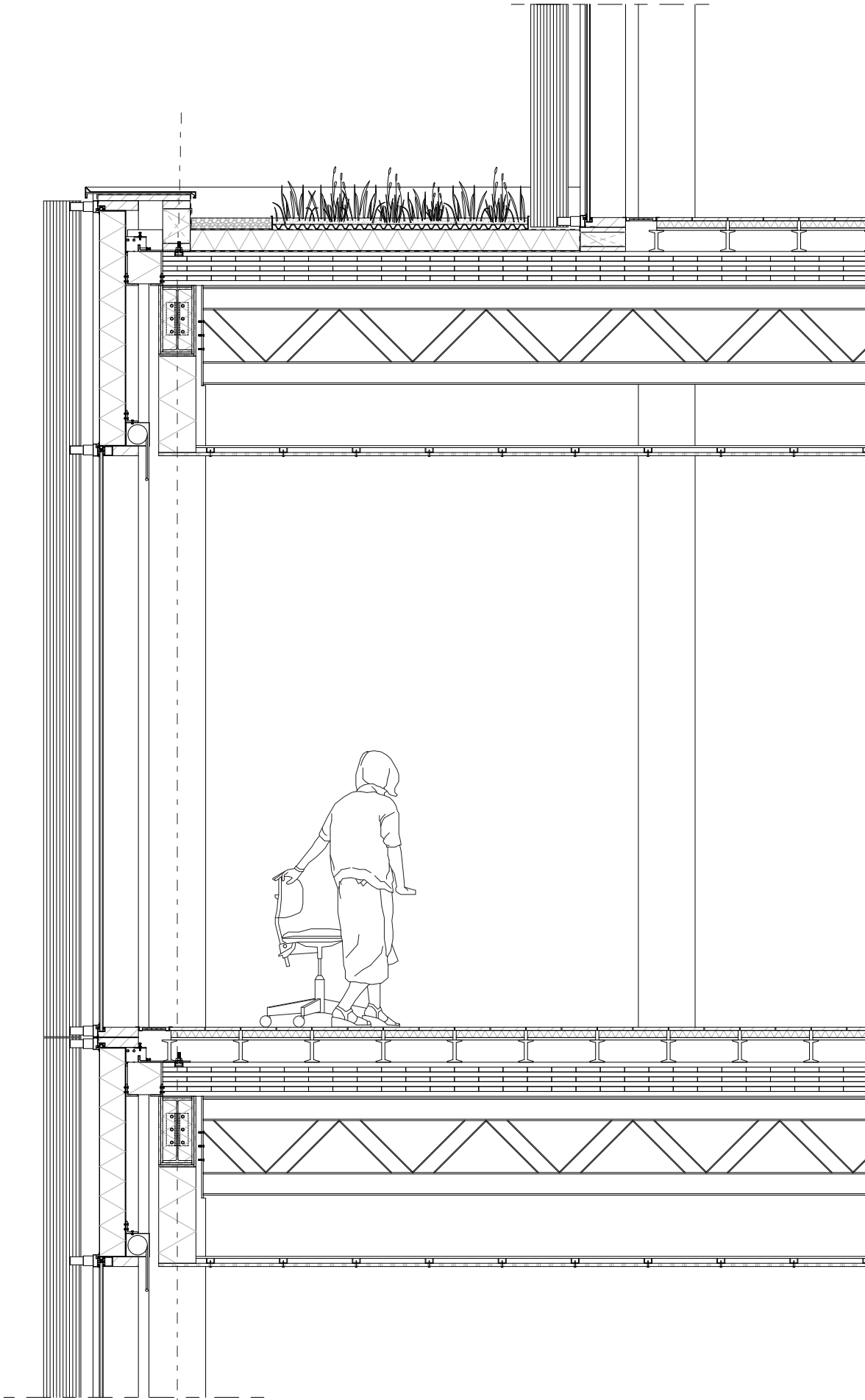


Fragment location

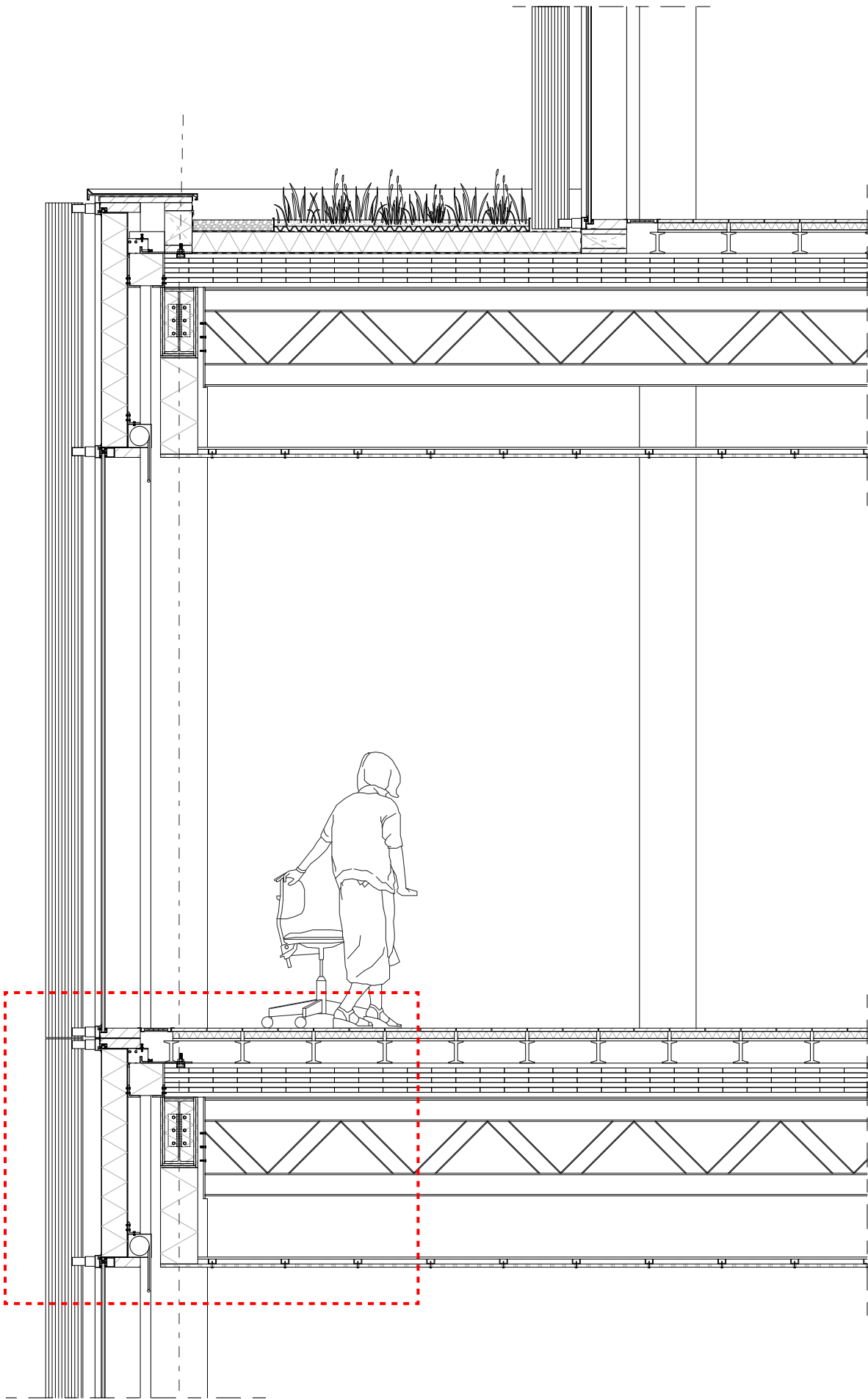


Fragment

1:20



VD1
1:5



Ventilation grill

Attachment curtain wall to floor:

- Steel bracket
- Lateral plate
- HALFEN cast-in channel

Firestop with coating on top

Unitized curtain wall system:

- Aluminium cap
- Insulated aluminium opaque panel

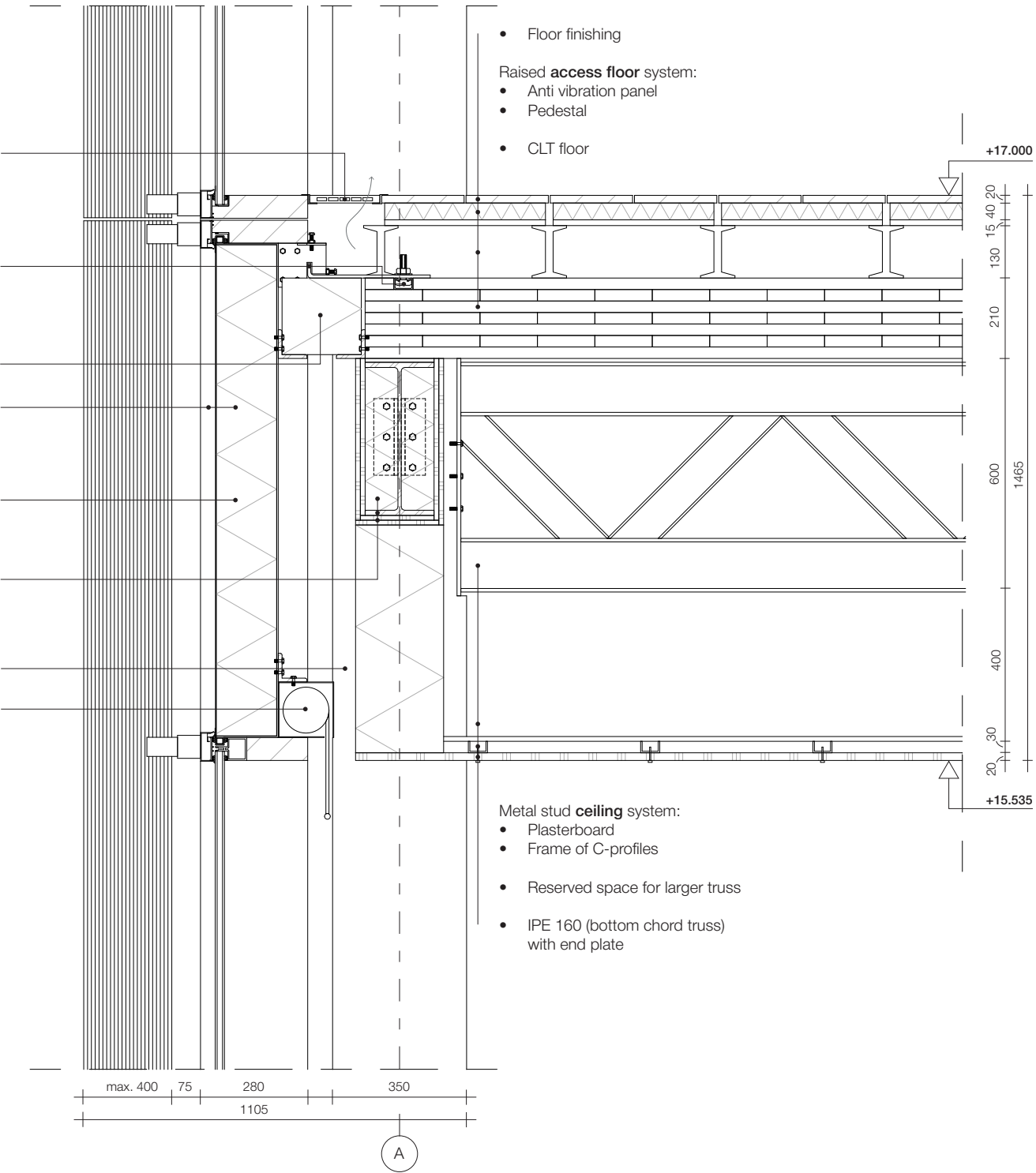
Secondary system:

- Versoleil sunshade: Aluminium vertical louvers in timber look

- PROMATECT®-XS plating
- IPE 300 beam
- Mineral wool

HEA 300 column elevation

Rolling shading device



- Floor finishing

Raised **access floor** system:

- Anti vibration panel
- Pedestal

- CLT floor

+17.000

20

15

40

130

210

600

1465

400

30

20

+15.535

Metal stud **ceiling** system:

- Plasterboard
- Frame of C-profiles

- Reserved space for larger truss

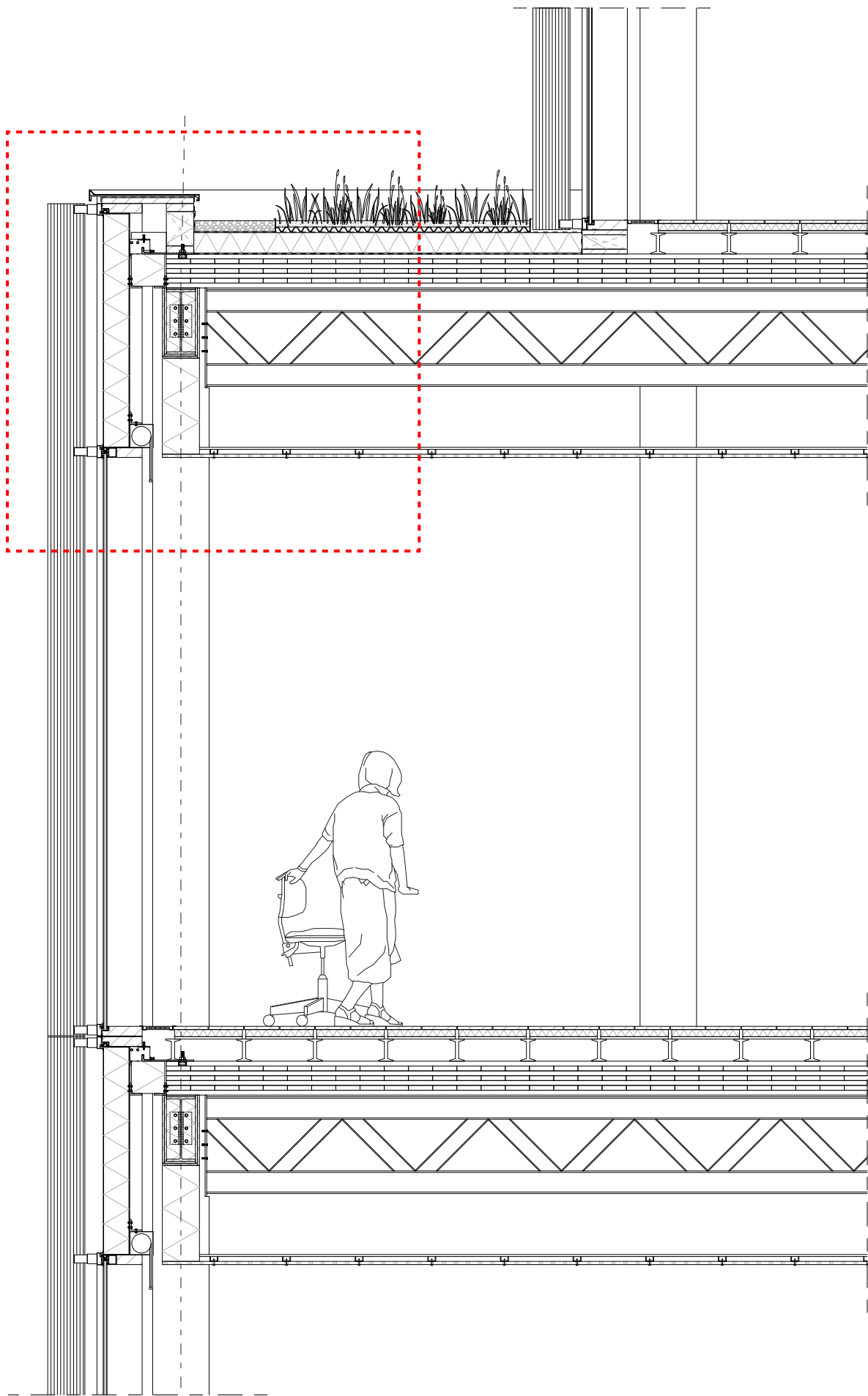
- IPE 160 (bottom chord truss) with end plate

max. 400 75 280 350

1105

A

VD2
1:5



Aluminium coping system

- Hybrid timber and aluminium transom
- Insulated timber frame
- Waterresistant layer

Attachment curtain wall to floor:

- Steel bracket
- Lateral plate
- HALFEN cast-in channel

Firestop with coating on top

Unitized curtain wall system:

- Aluminium cap
- Insulated aluminium opaque panel

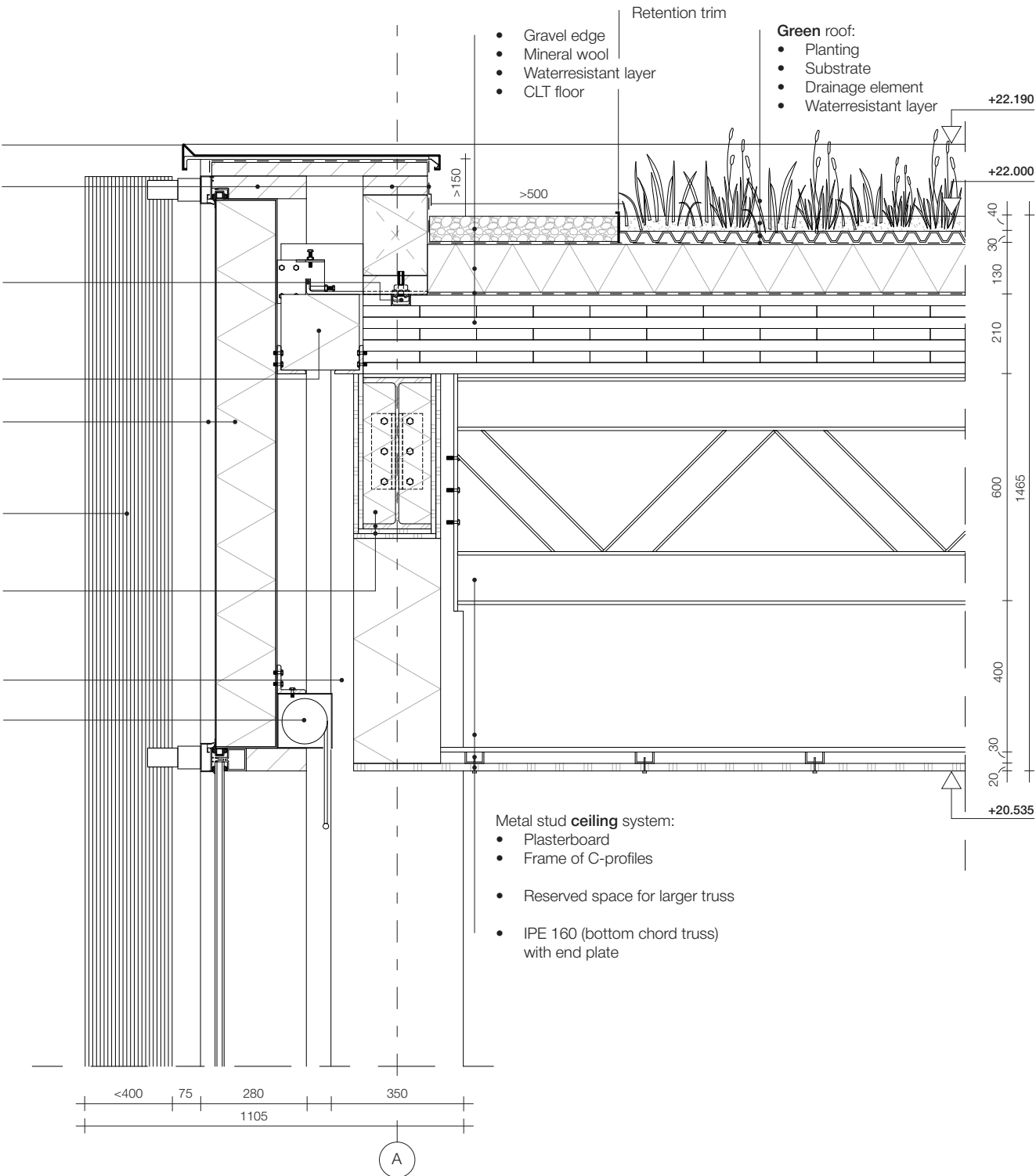
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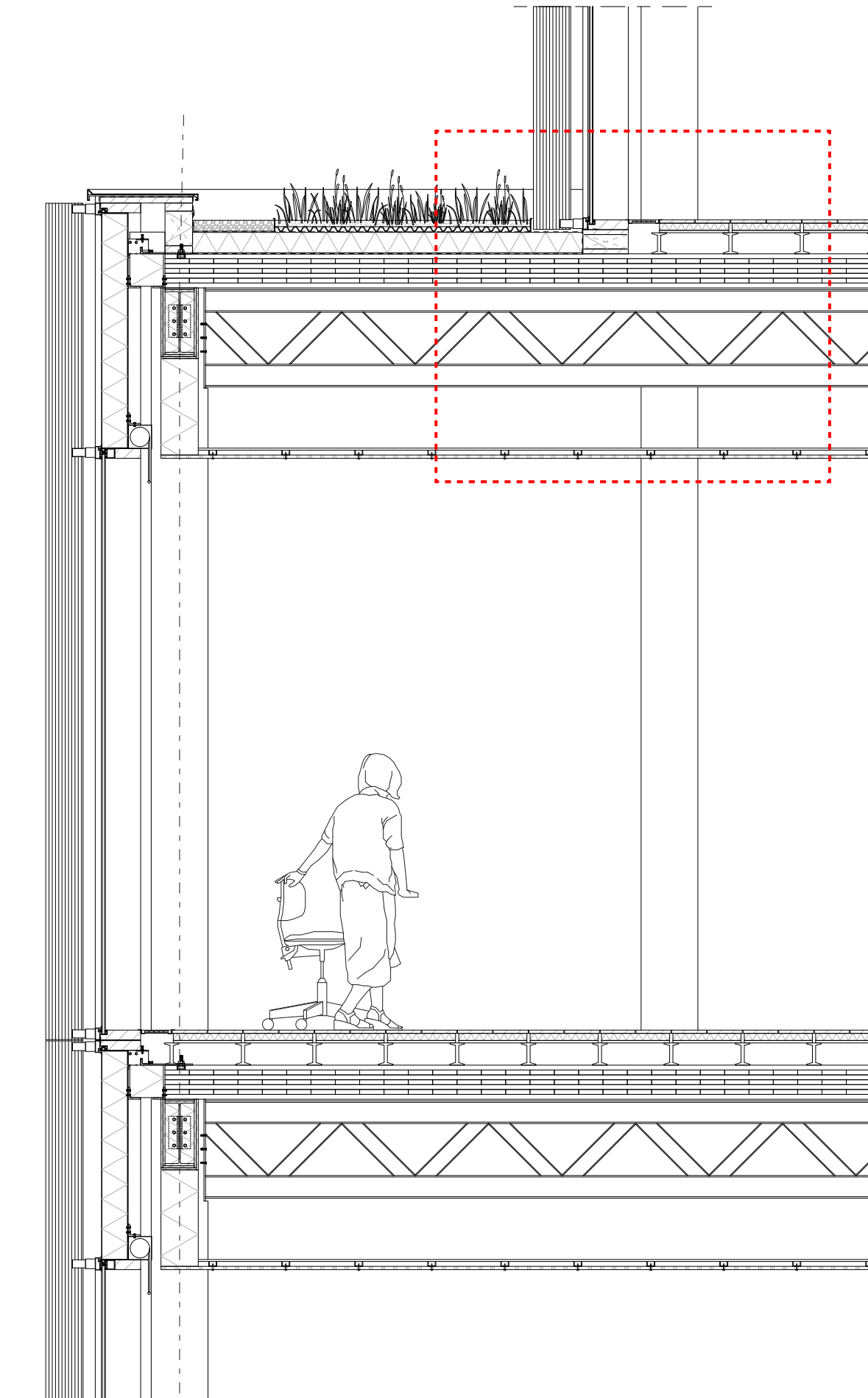
HEA 300 column elevation

Rolling shading device



VD3

1:5



Green roof:

- Planting
- Substrate
- Drainage element
- Waterresistant layer
- Mineral wool
- Waterresistant layer

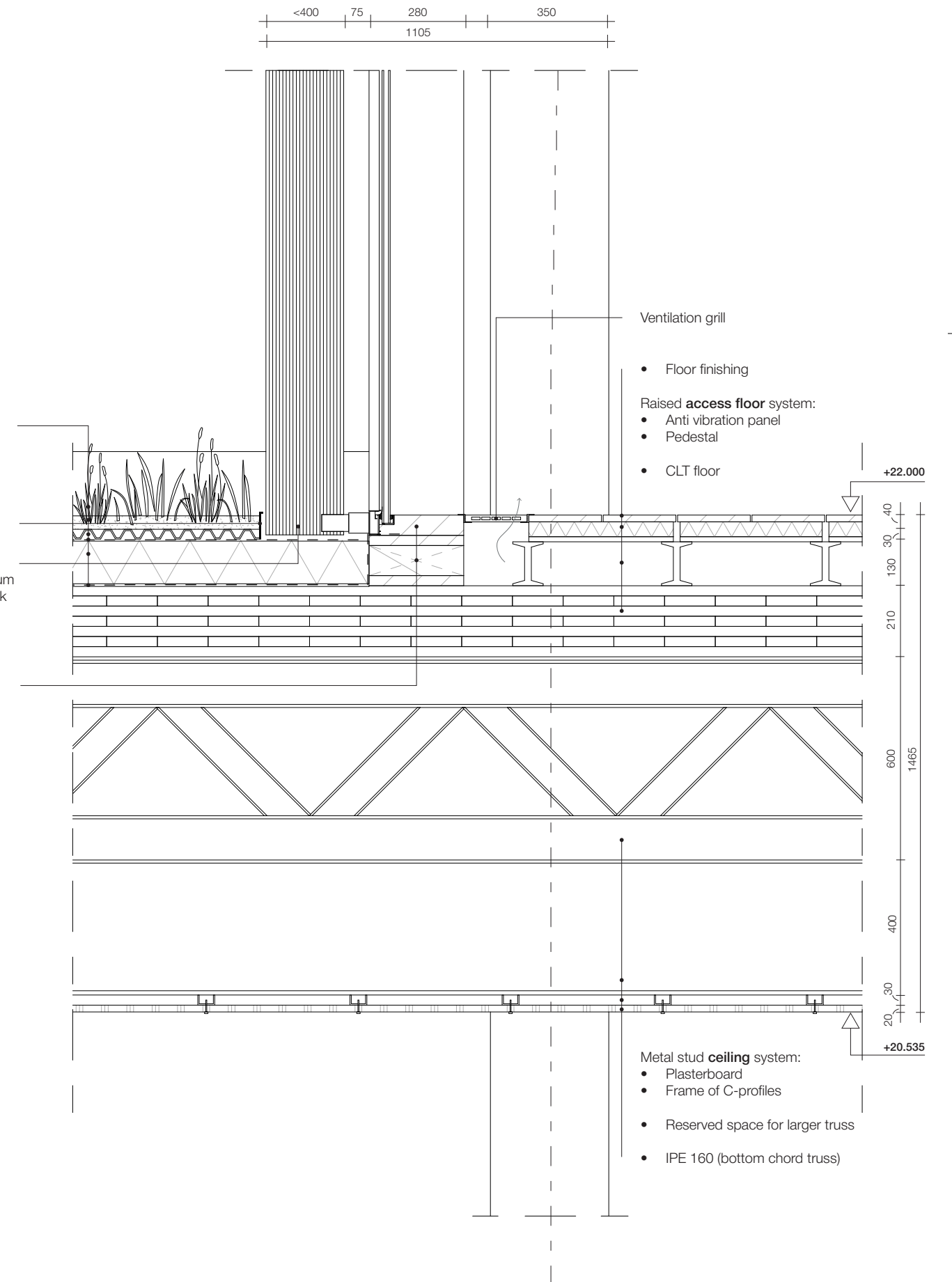
Retention trim

Secondary system:

- Versoleil sunshade: Aluminium vertical louvers in timber look

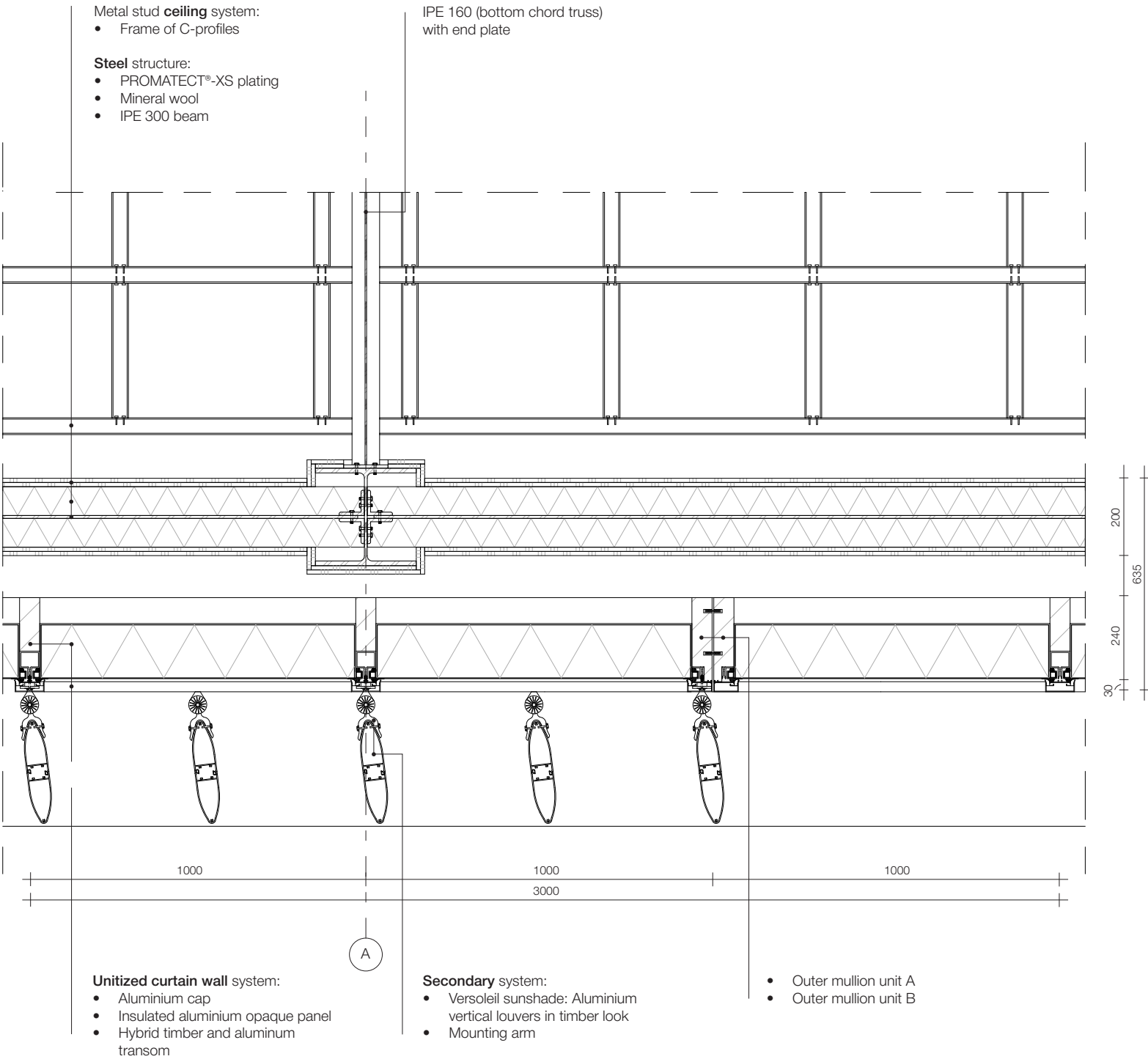
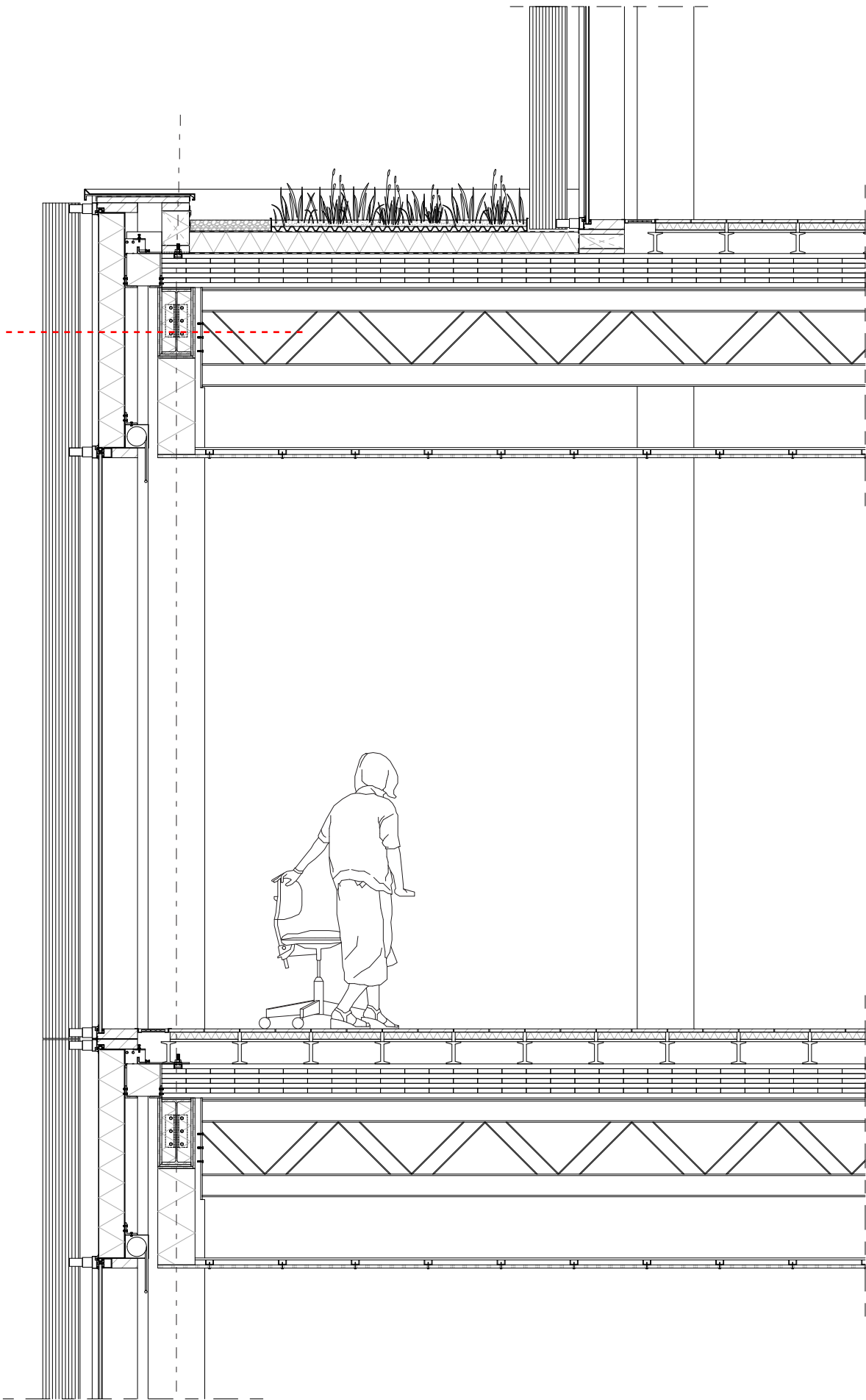
Unitized curtain wall system:

- Insulated timber frame
- Hybrid aluminium and timber transom



HD1

1:5



Conclusion

