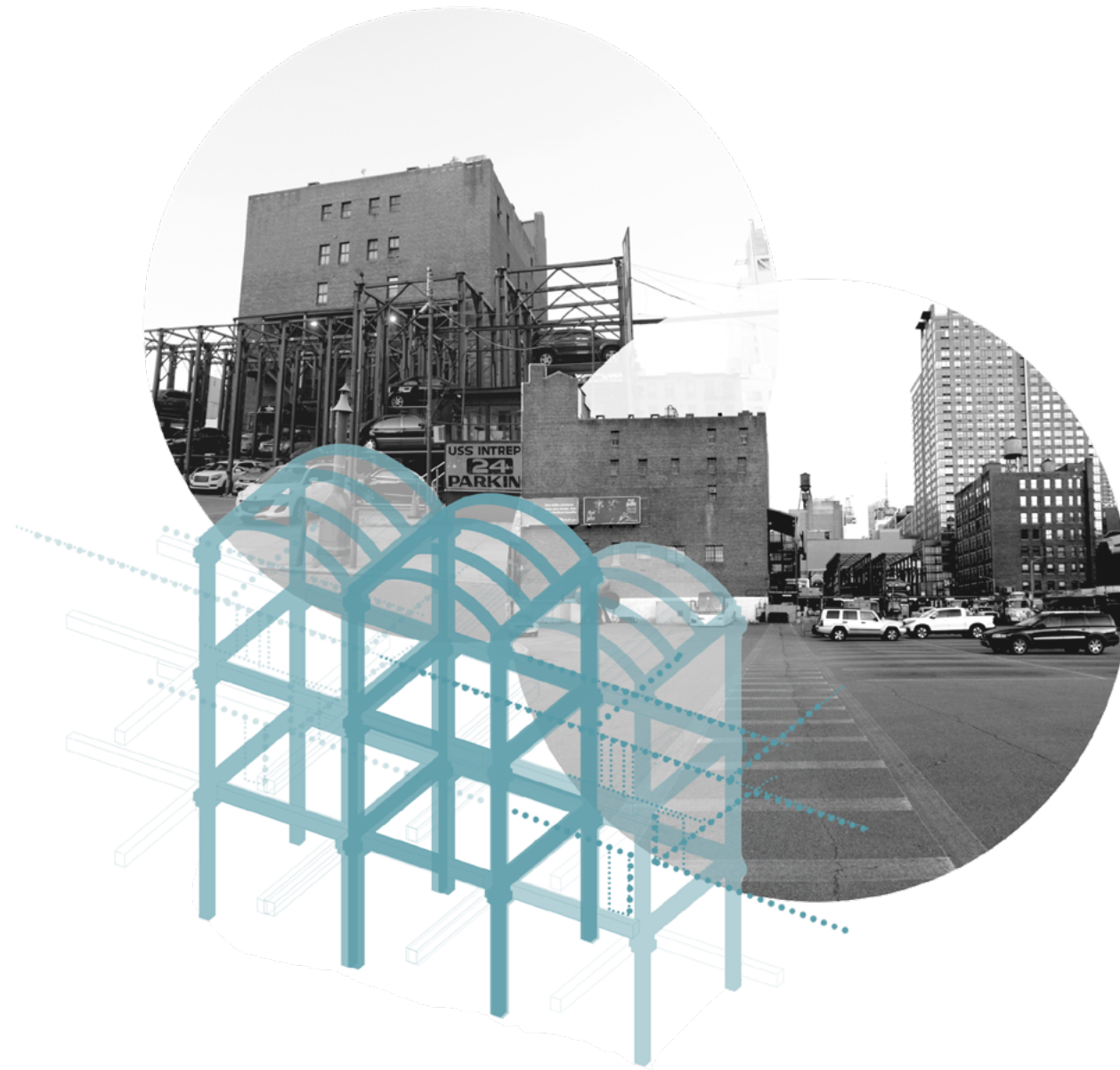


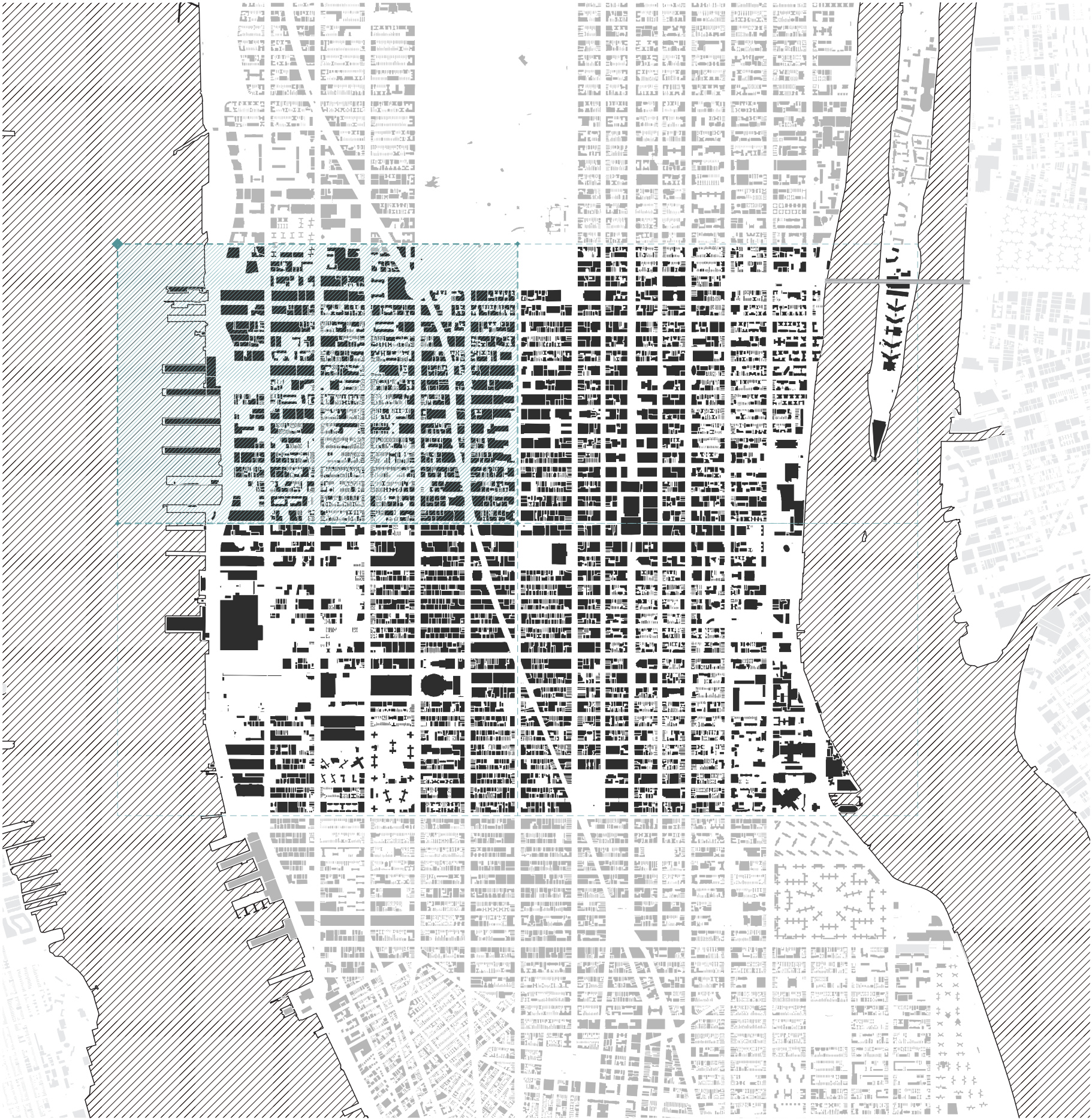
MADE IN MANHATTAN

revitalizing community through the creative engine

· Hell's Kitchen ·



Group site



Identities

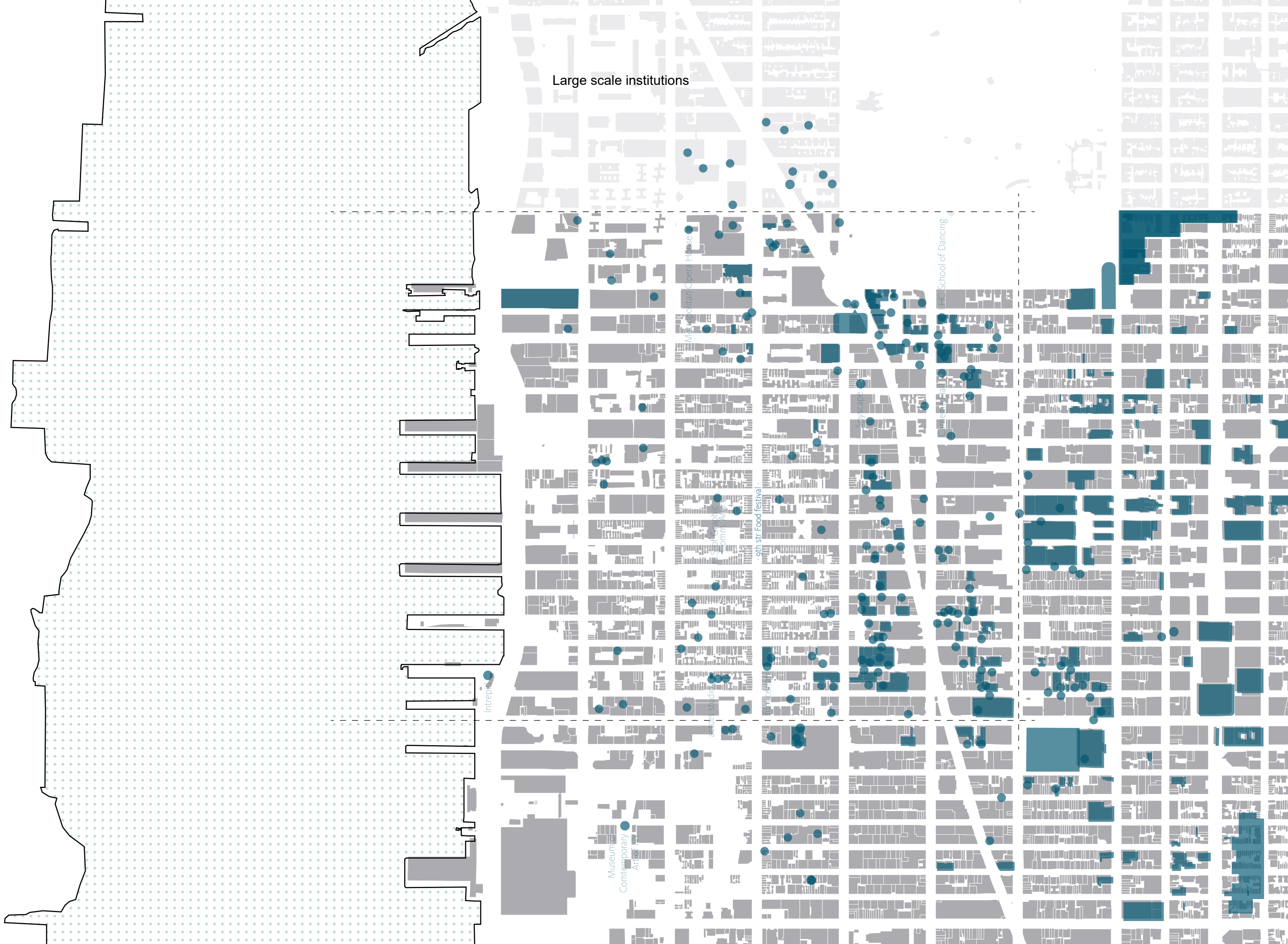


Clinton Piers

Hell's Kitchen

Midtown





Large scale institutions

Metropolitan Opera House

Skyscape

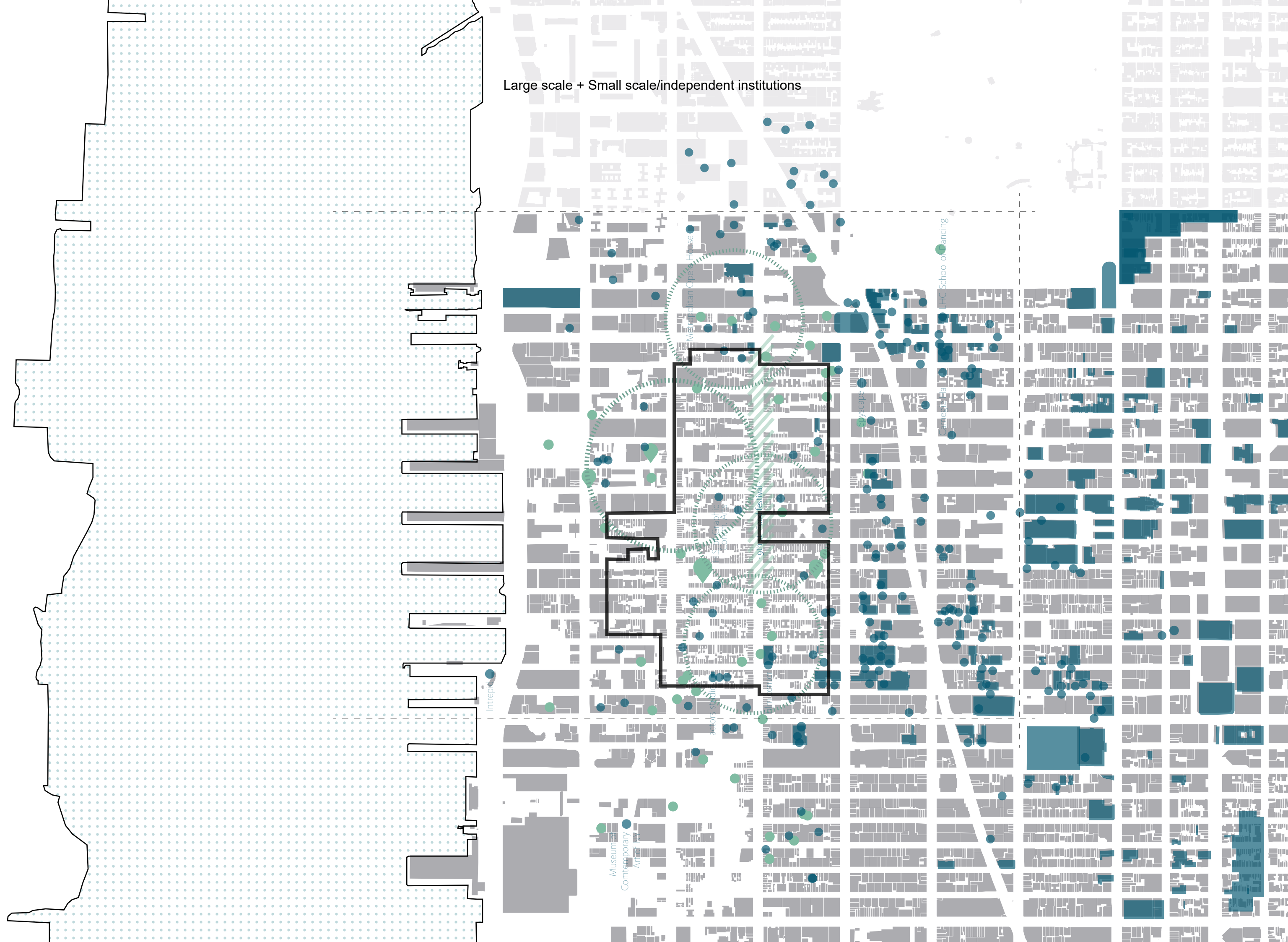
JHC School of Dancing

9th str Food festival

actors studio

Intrepid

Museum of Contemporary Art



Large scale + Small scale/independent institutions

Metropolitan Opera House

JHC School of Dancing

Soyscape

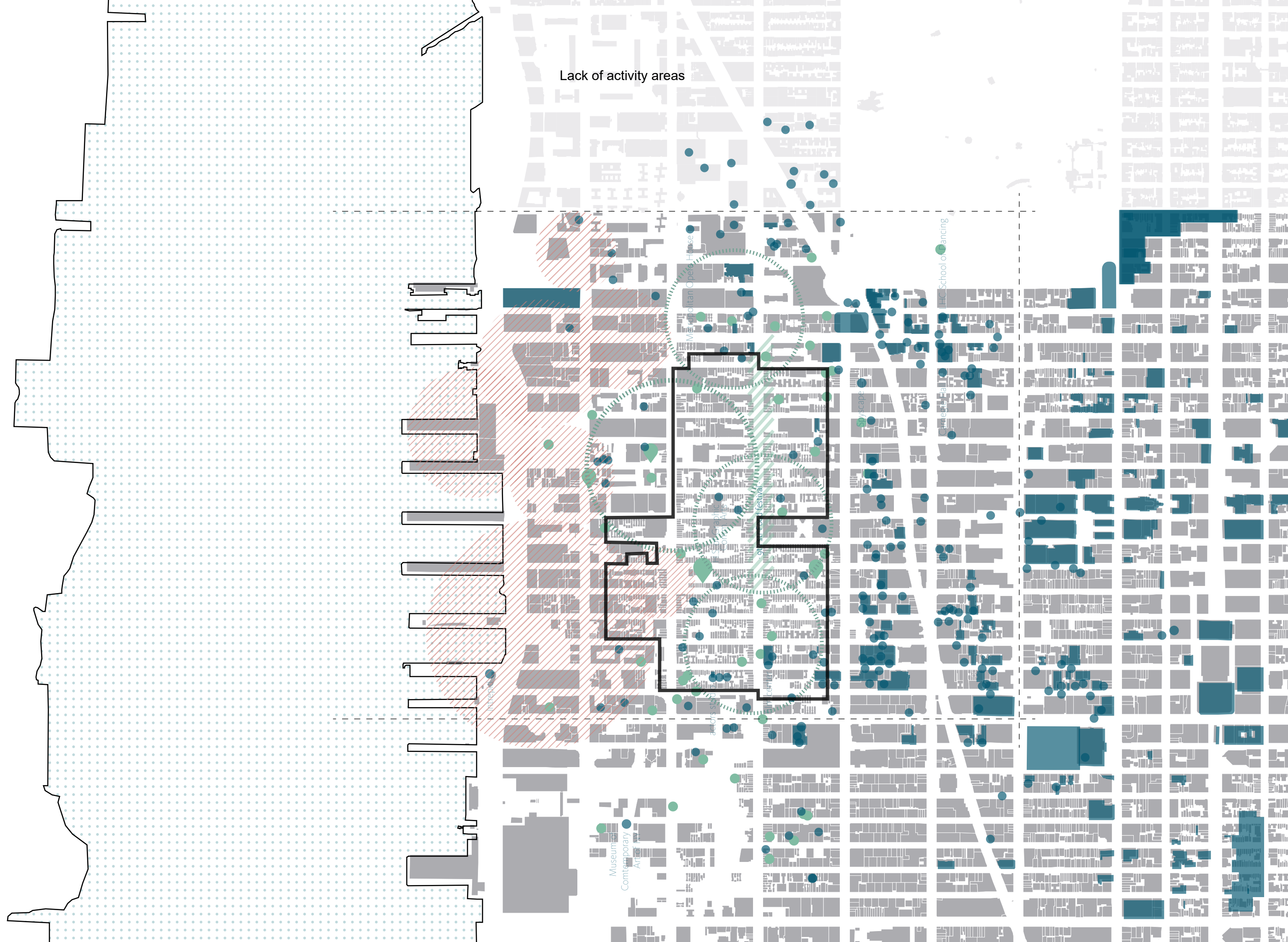
ChoreoLab

Intrepid

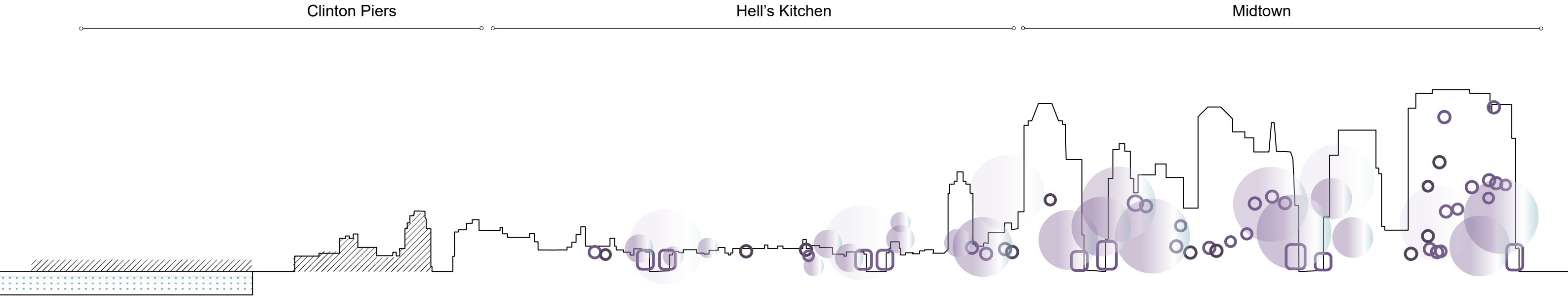
Museum of Contemporary Art

actors studio

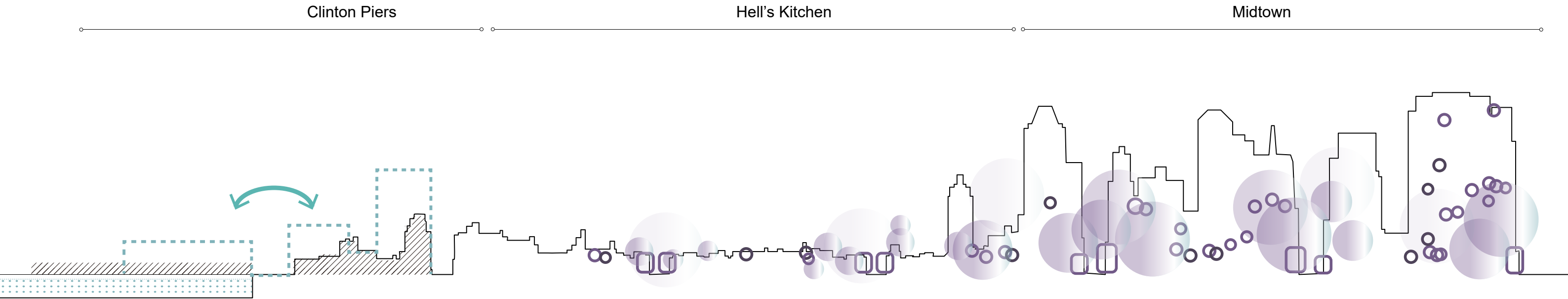
Lack of activity areas



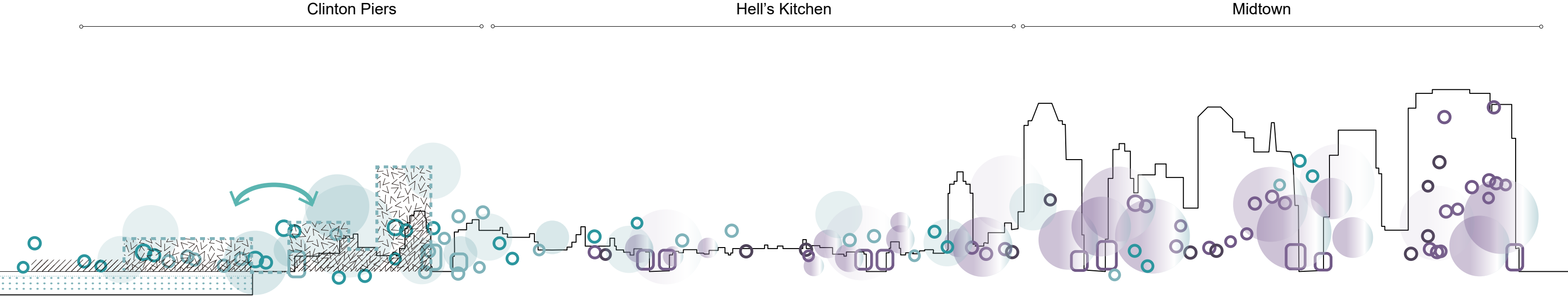
Current situation

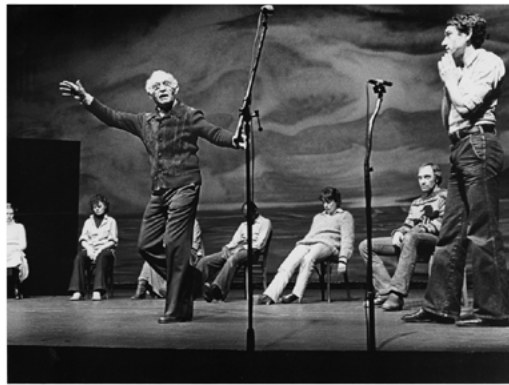


Group strategy



Group vision





Preexisting values in the area

- artistic/cultural relevance
- local commerces/character
- industry

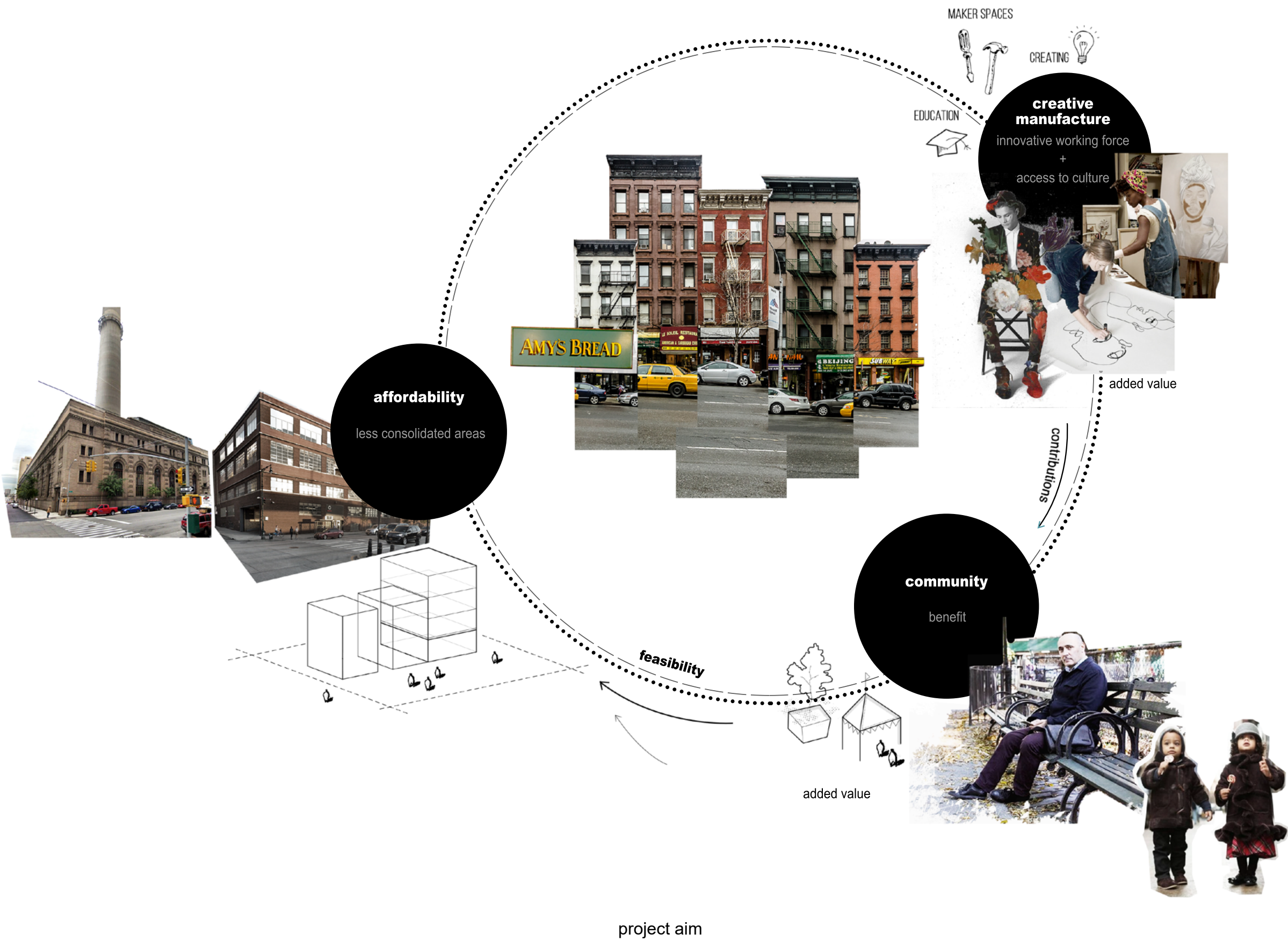


Hell's Kitchen playground

mural expressing community relevance



willingness of local community



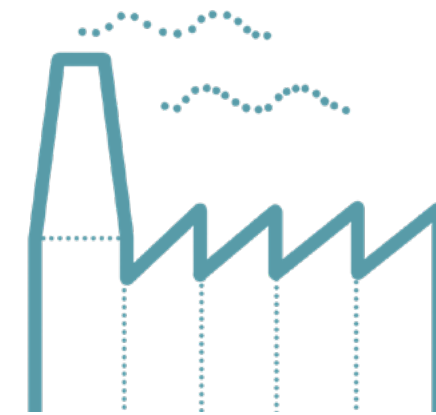
special mixed use district

encourage the
development of productive
and dynamic
employment centers

unleash commercial
and industrial growth and
transform industrial
district



creatives

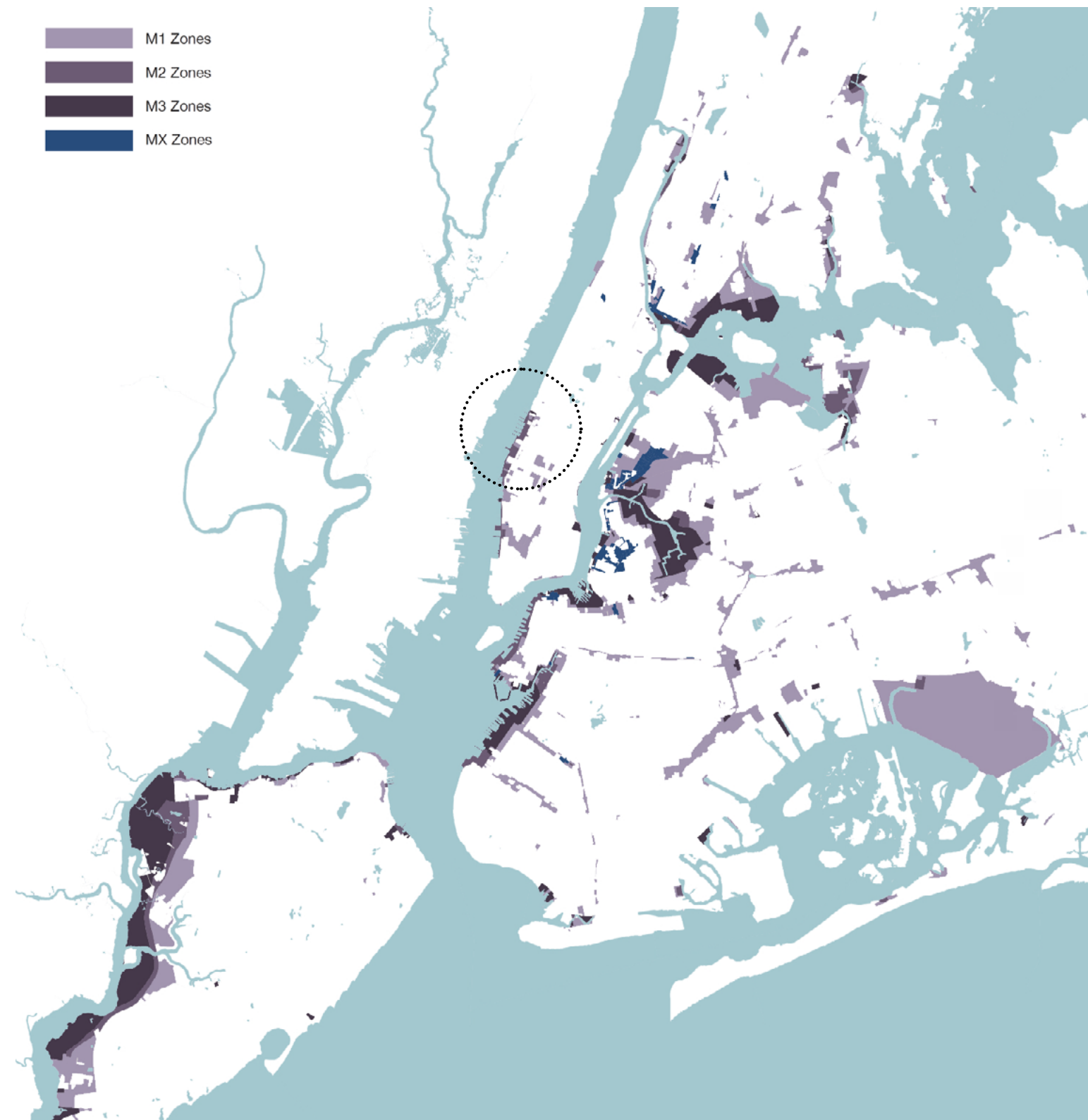


light manufacturing

Engines of Opportunity:

Reinvigorating New York City's Manufacturing Zones for the 21st Century

The New York City Council



Manufacturing zones in NYC



New York was a factory city

Research

Historical relevance of Industry in Manhattan



New York City = bastion of production

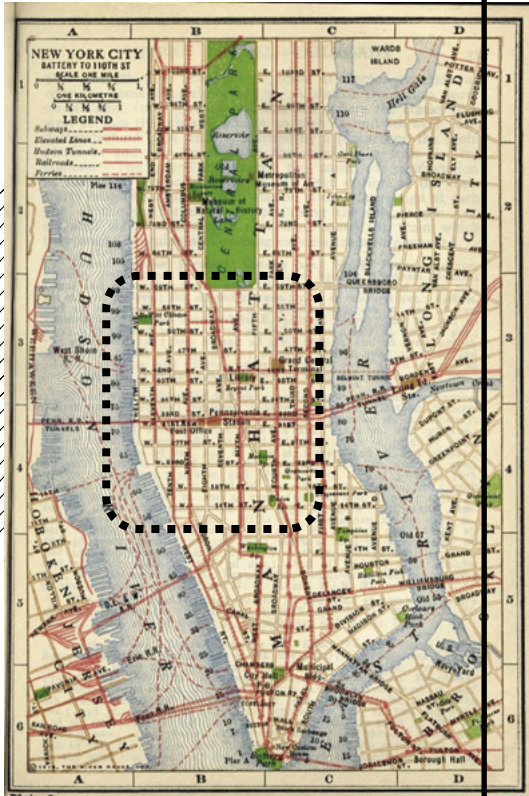
28% of the Tri-State region’s workers engaged in
blue-collar jobs

it was still the **largest manufacturing city** in America

Its industrial fame and economic dominance were largely based on its
extraordinary port and over 800-meter-long waterfront,
its vast infrastructure of shipping networks,
and its burgeoning /florecente/ population.

Manhattan’s factories south of Central Park engaged a workforce of

0,5 million people.



A century earlier,
New York was the United States'

largest local market

and had the

widest global reach.



1860



NEW YORK,

manufacturing was everywhere

- it was not relegated to a few districts
- it was not hidden
- it was integrated into urban life

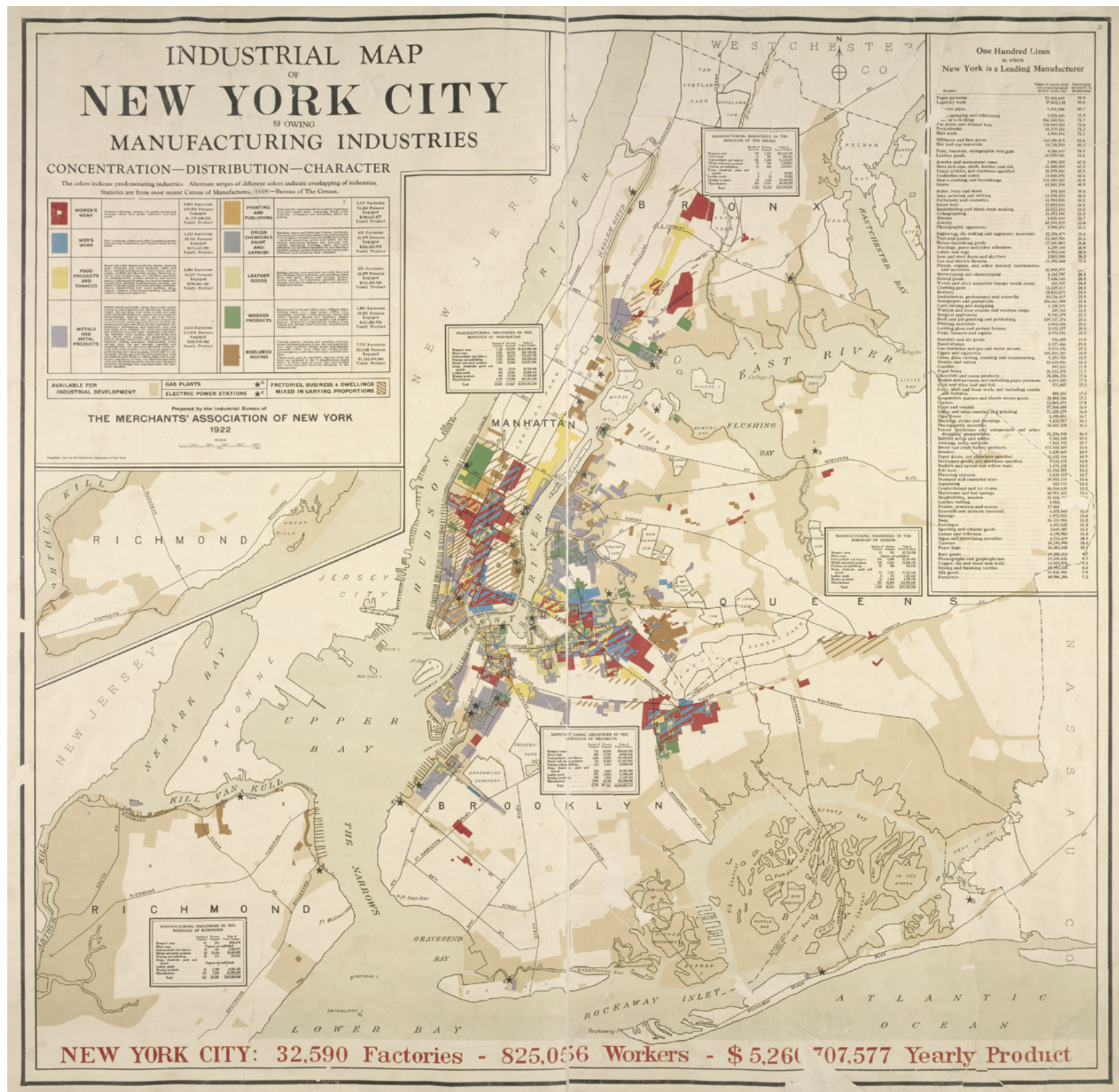
In Manhattan, where land was more expensive,

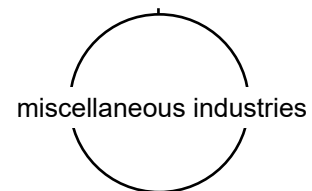
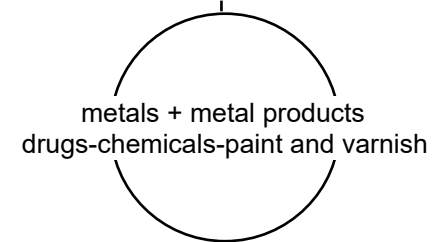
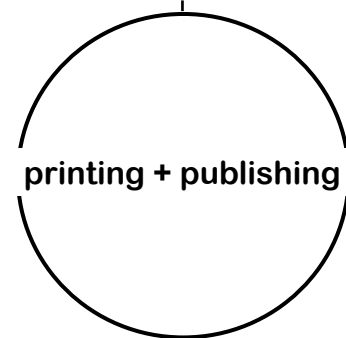
multistoried factories,
became the norm.

Industrial production
was enhanced with

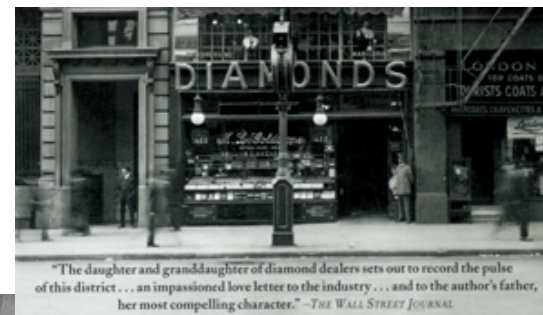
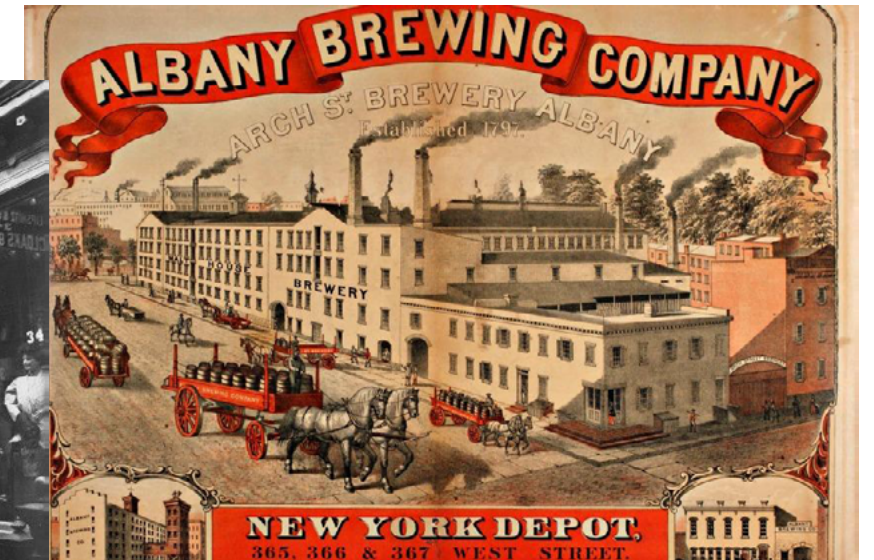
clusters + informal networks

1890-1920s





1890-1920s



heavy manufacturing declined in New York,
as in other American cities,

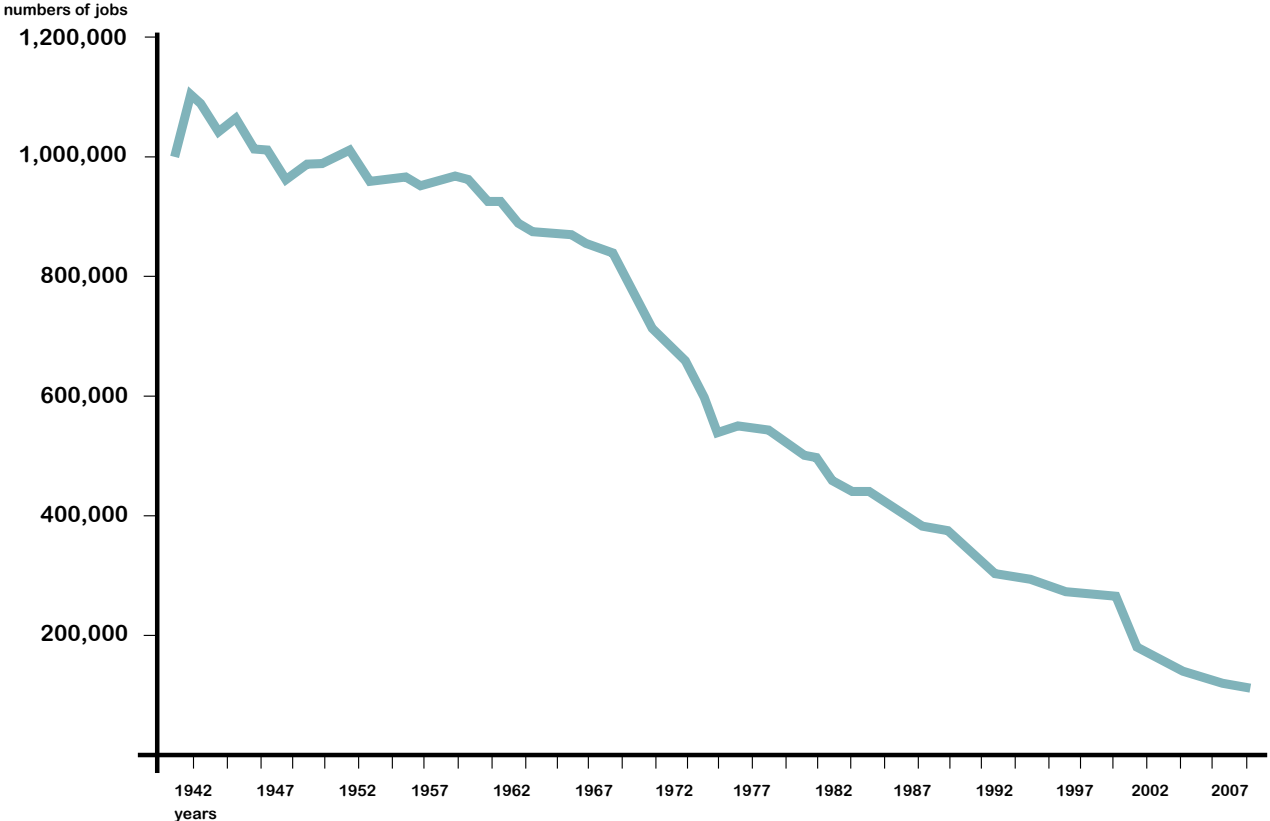
but there continued to be smaller, **light manufacturing**.

new technologies impact

the city planning agency's vision did not accommodate the demand for industrial space and

continued to remove the potential for production

through limited industrial zoning

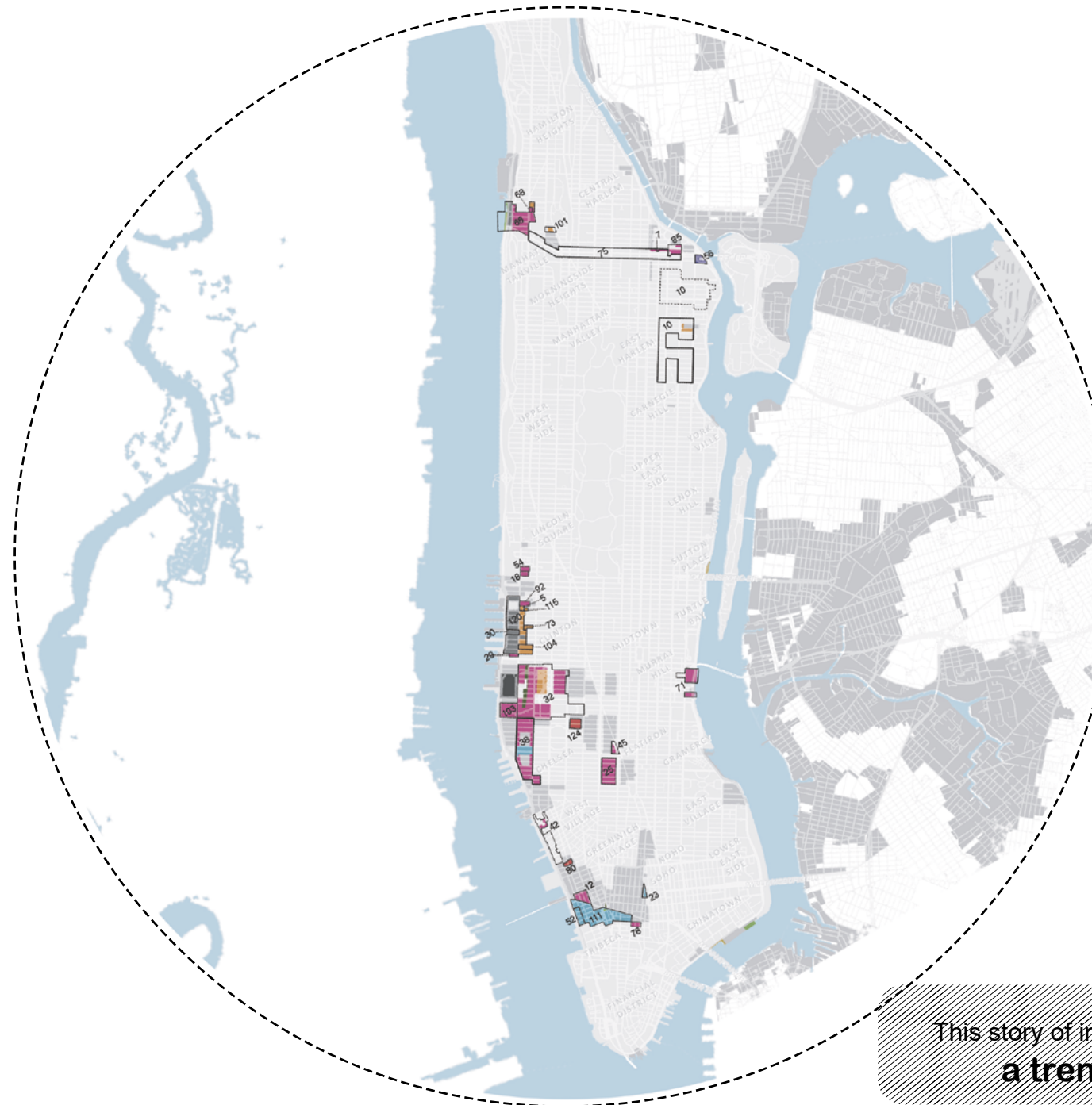


Decline of manufacture in New york since WWII

1950-1960



nowadays



- Unchanged 2002 M-Zones:**
- Grey square: Unchanged 2002 M-Zones
- Other Actions Affecting 2002 M-Zones:**
- Black square: GPP
 - Green square: New Park, Public Open Space or Preserved Natural Area:
 - Dark green square: Type 1
 - Light green square: Type 2
 - Yellow-green square: Type 3
- Rezoning Affecting 2002 M-Zones:**
- Pink square: M to C
 - Red square: M to Mixed Use (MU)*
 - Orange square: M to R
 - Dark blue square: New M or New Mixed Use
 - Light blue square: Mixed Use to C
 - Brown square: Mixed Use to R
 - Purple square: Mixed Use to M
 - Dark grey square: M to M or Mixed Use to Mixed Use

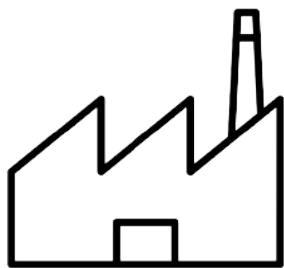
Industrial zones 2012

This story of industry's decline in the big city indicative of
a trend seen around the world.

However, in places like Paris and New York,
manufacturing in 2014 is still evolving.

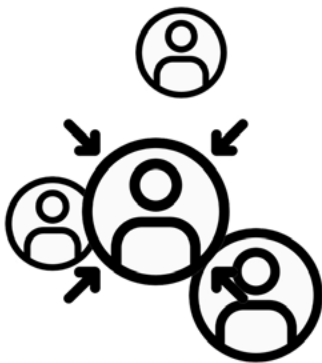
2010

Why a city needs manufacture nowadays?



**independence on
low-wage countries**

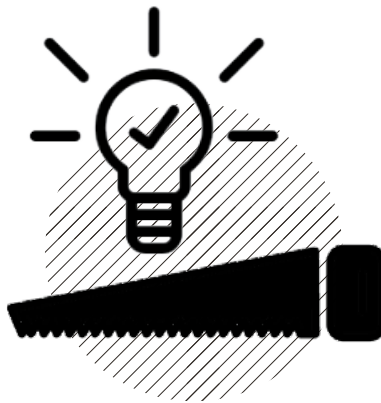
+



**diversity
of employment**

a robust urban economy
requires a city that offers
space and support to a diversity
of economic activities and jobs

+



**need to close the gap
between thinkers and creators**

need to close the gap
between thinkers and creators

+



**local quality and craft
in demand**

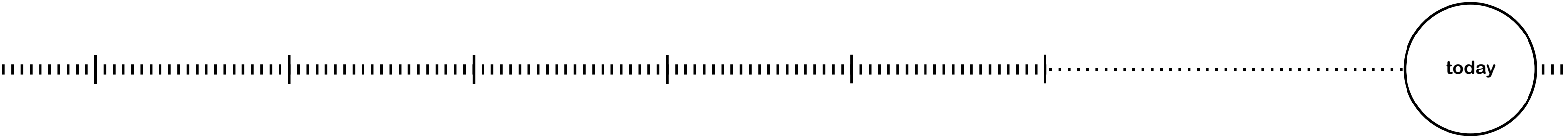
recognized value and quality
revaluation of handicrafts,
métier and trade
from re-use to recycle

+



**promising
circular economy**

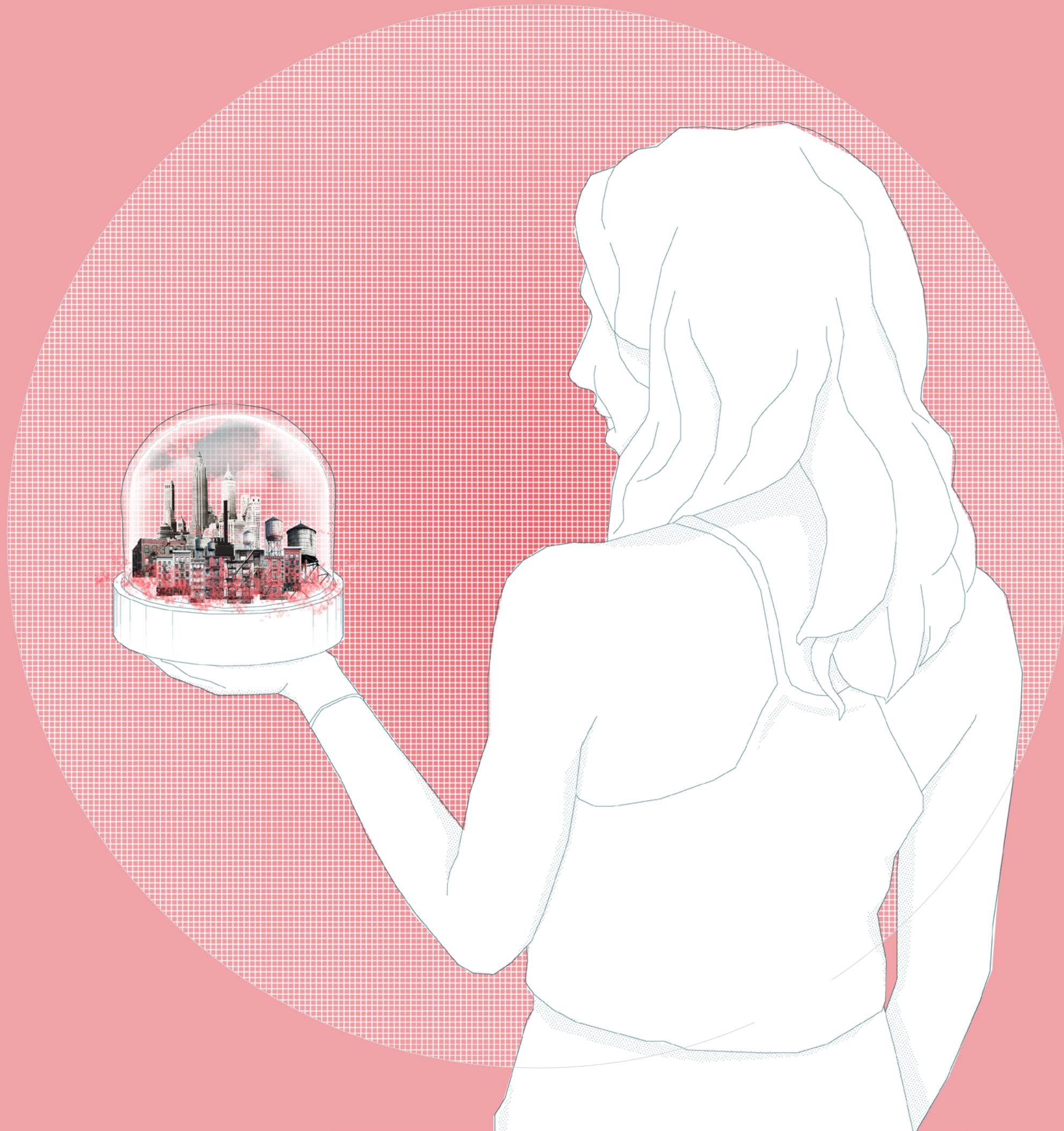
residuals and waste will need
to become the resources of
tomorrow's economy



**How can the Creative Engine based on spaces of production create
a stable community in Hell's Kitchen?**

- research question -

context-based project



.

IDENTITY

made in Manhattan brand

+

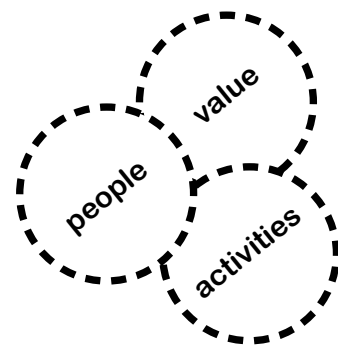
COMMUNITY-BASED

inclusionary -social befenits-

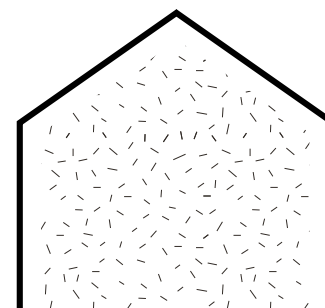
.



creative place



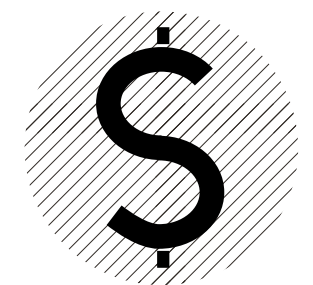
vibrancy



quality of space



**attraction + retention
of talent**

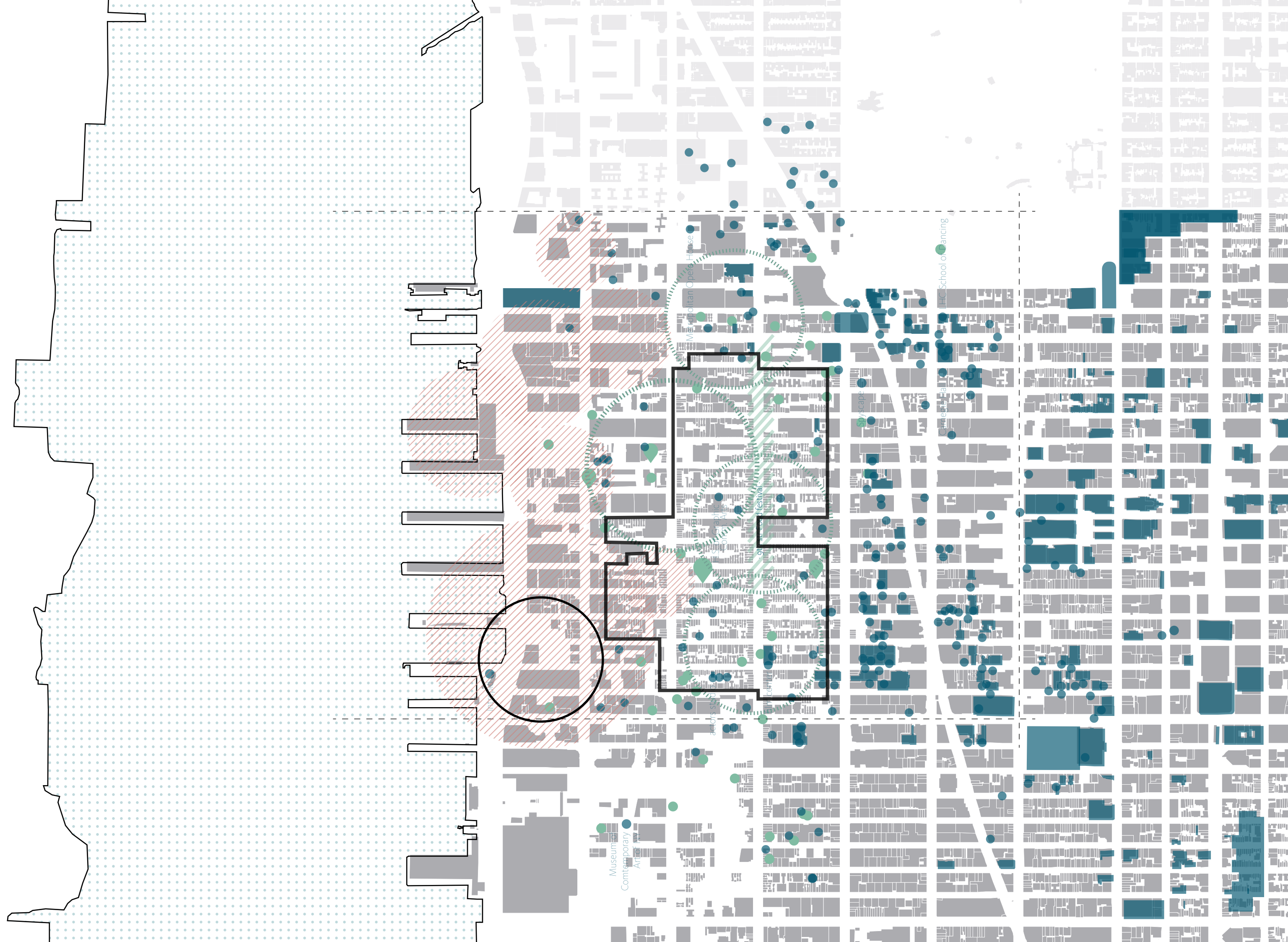


**economic
development**



Implementation in the area

How could this concept of building be feasible?



The site

buildings to demolish
and incorporate
in the proposal

= 5000 m2

empty spaces
currently parking lots

- 4282 m2
- 5785 m2

total floor area available

- 8489 m2
- 5785 m2

buildings to maintain

- industrial remaining
buildings >1924

industrial use
mixed use
commercial use

The site



1927

The site



1924

Evolution of the site



design brief

Made in Manhattan District
program

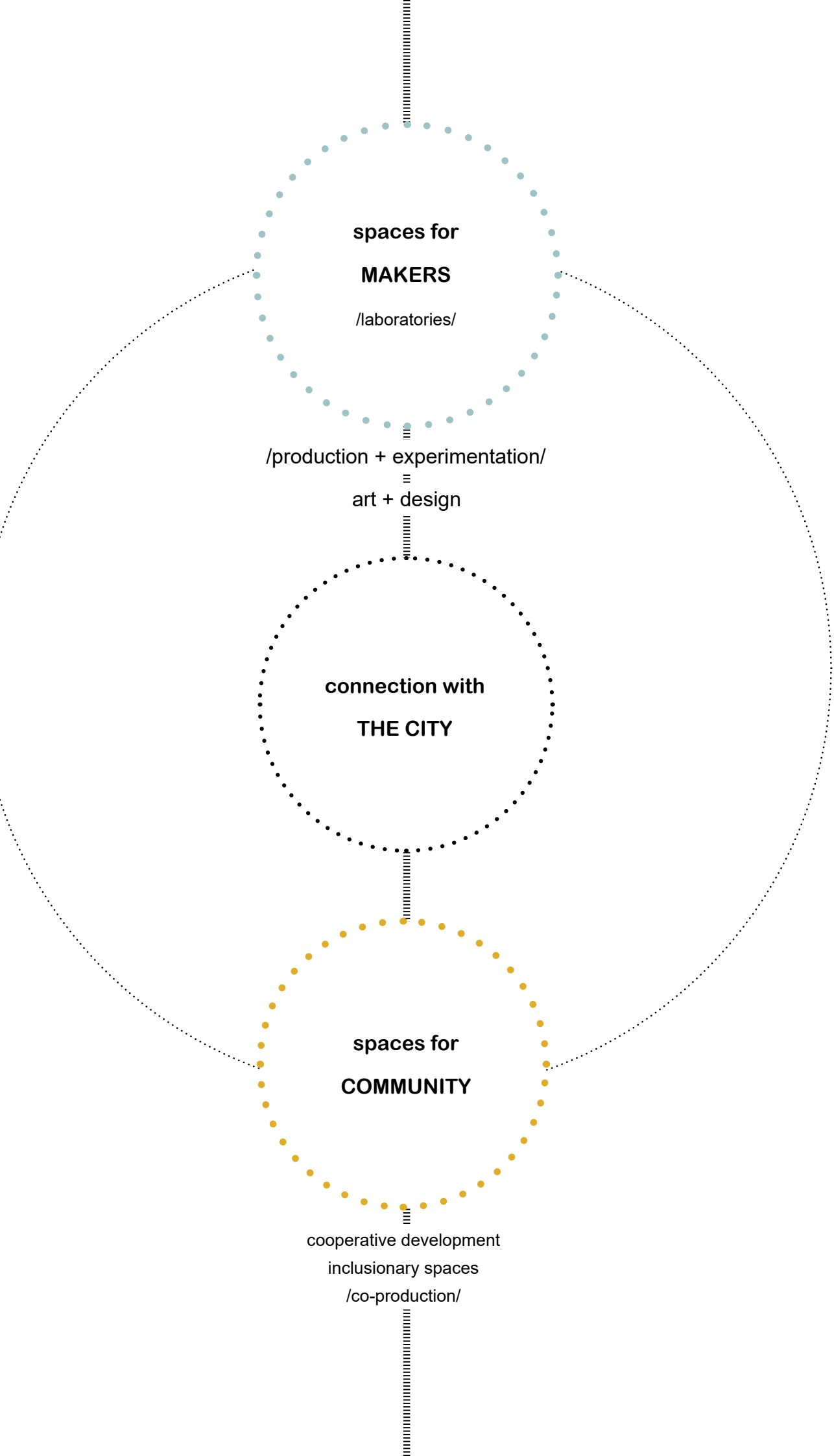


/production + experimentation/
=
art + design

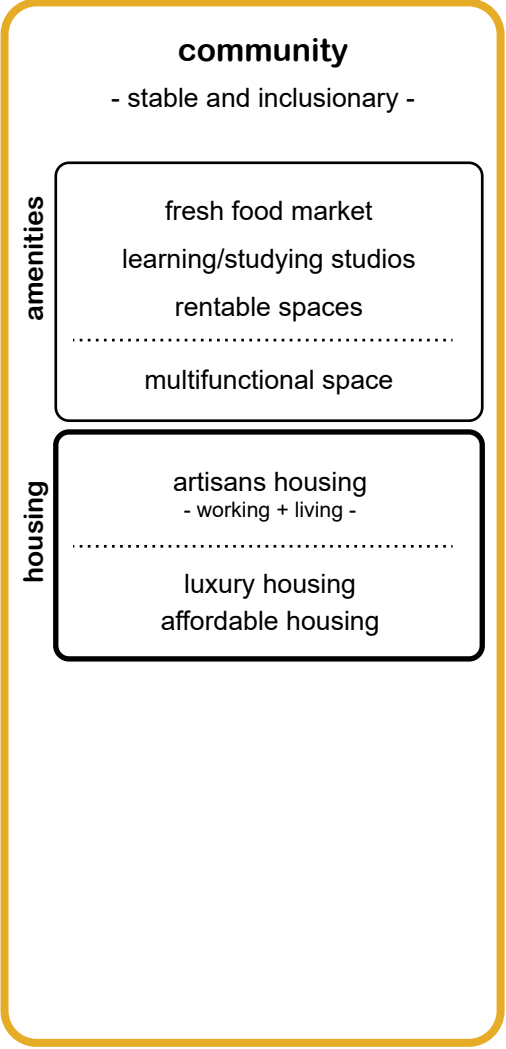
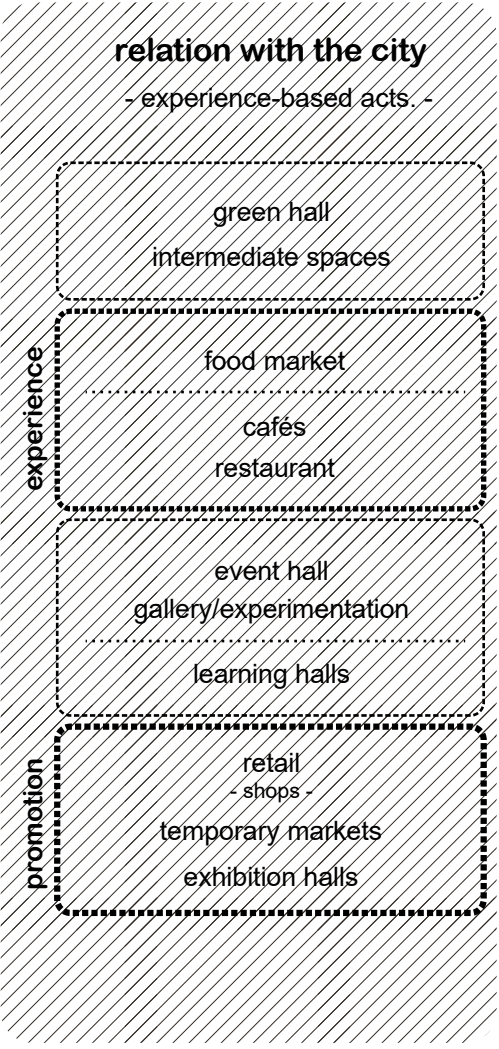
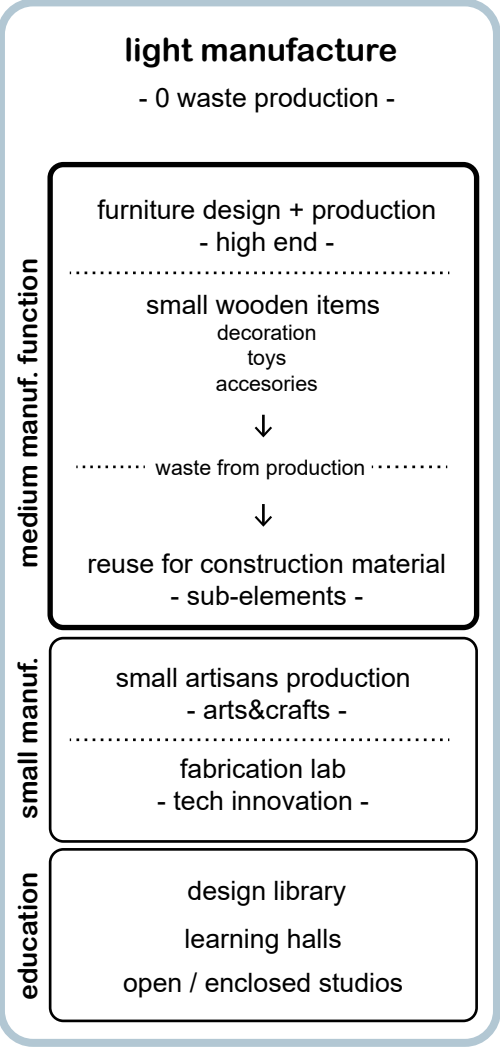


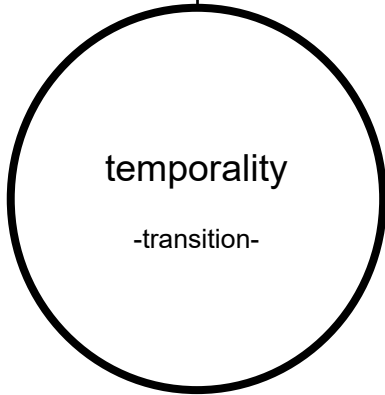
cooperative development
inclusionary spaces
/co-production/

Made in Manhattan District
program

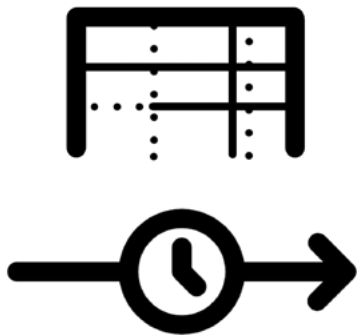


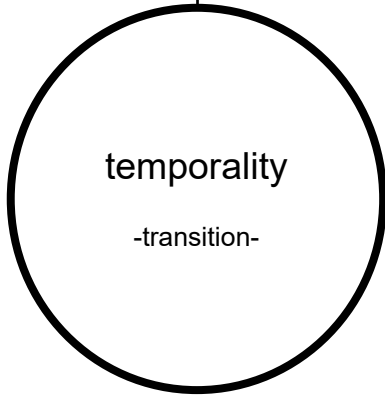
Made in Manhattan District
program



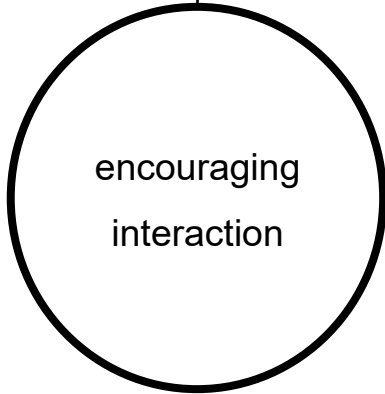


fixed + adaptable elements



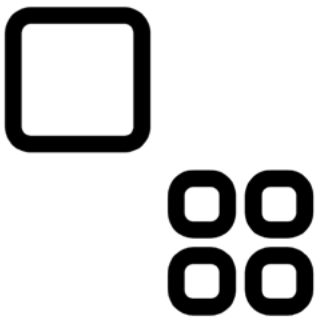
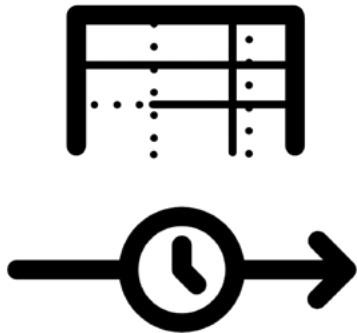


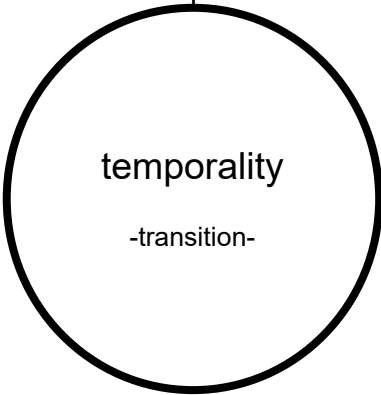
fixed + adaptable elements



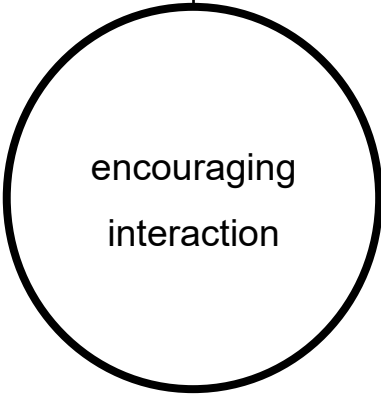
individual + collectivity

versatile spaces



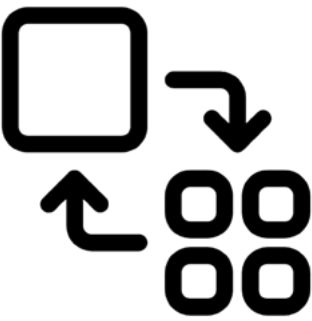
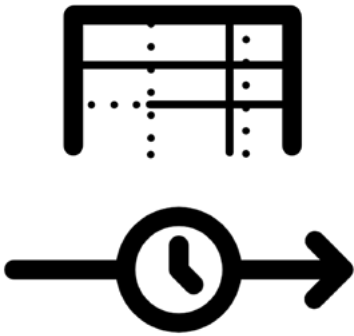


fixed + adaptable elements

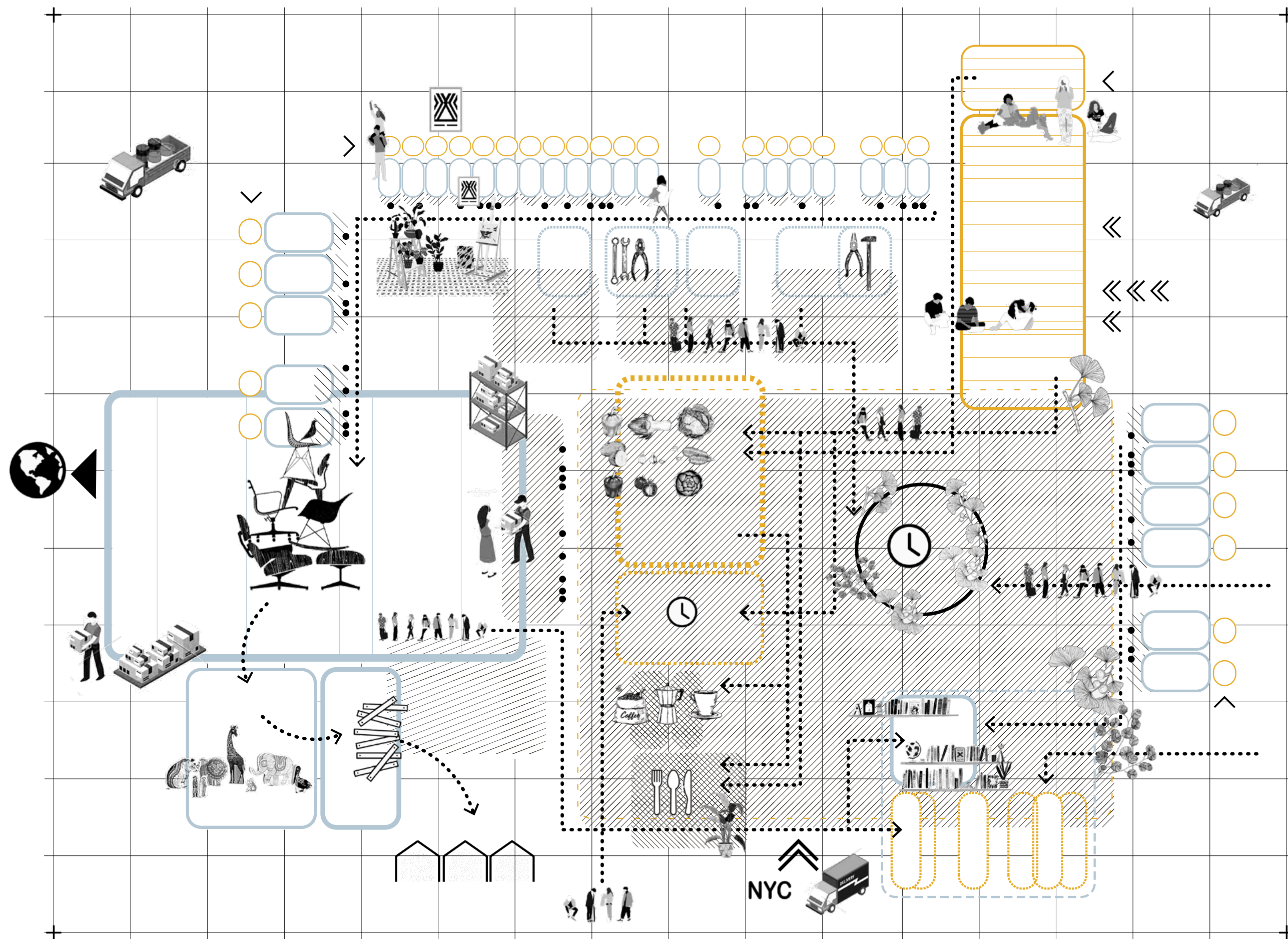


individual + collectivity

versatile spaces



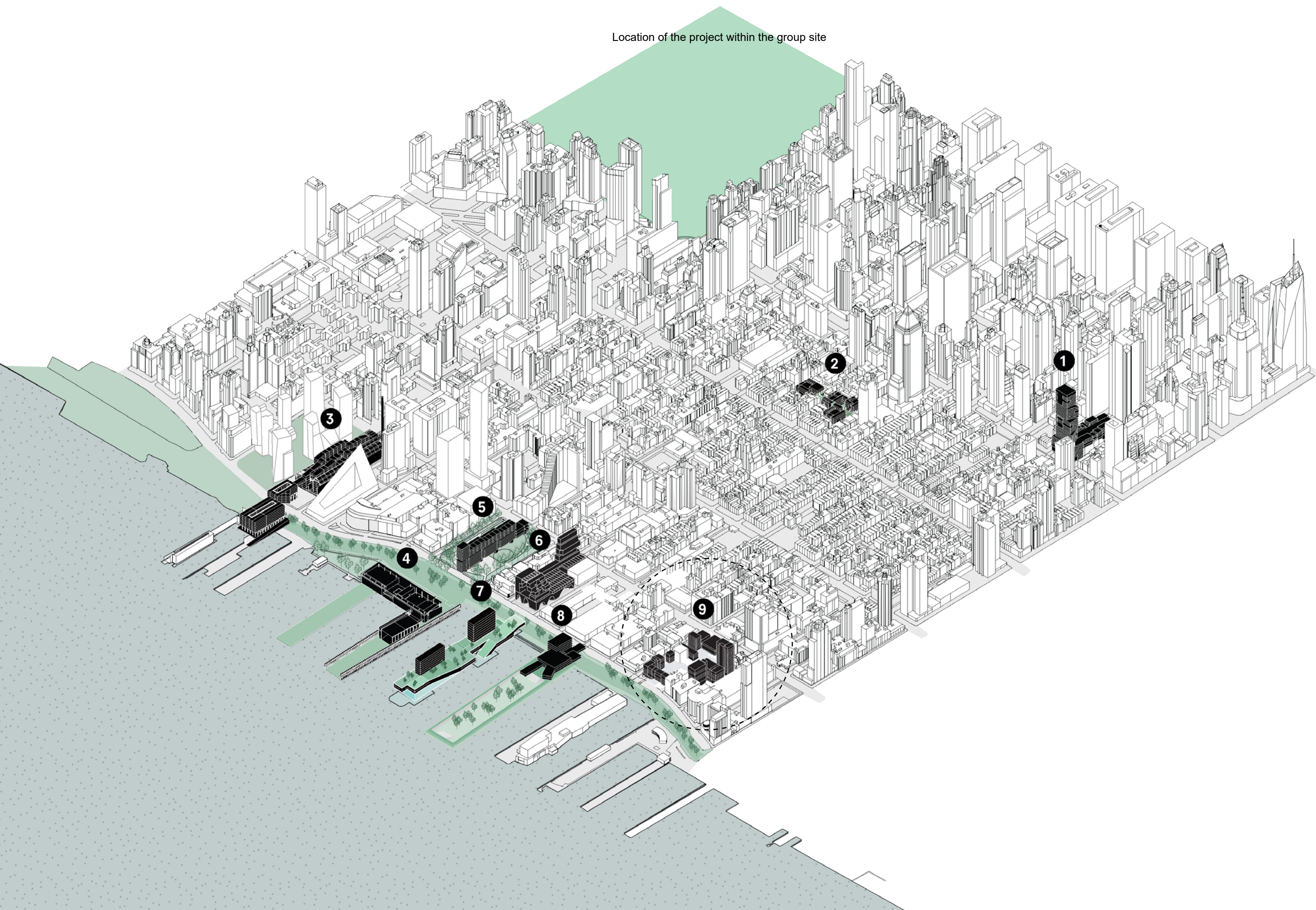
Connections in the District



MADE IN MANHATTAN DISTRICT

Made in Manhattan cluster is a mixed-use group of buildings located in two chosen blocks where some remains from the industrial past, with strong character, are still present. Key elements of the proposed district are the manufacturing spaces (small-medium manufacture in combination with smaller crafts and experimental studios) in combination with public spaces for the community and city inhabitants (events, meeting spaces) as well as housing. This merge of uses is a result of the need for affordability, common spaces in the neighborhood and the attraction of a wider scope of people. While offering experiences, this mixture of users makes economically and socially feasible this concept of district having as crucial concept the idea of a generic system that brings flexibility enough to hold current needs for the transitory uses but also adapt to future options of use.

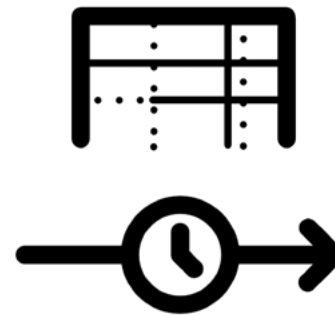
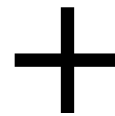
Location of the project within the group site



Concepts of design



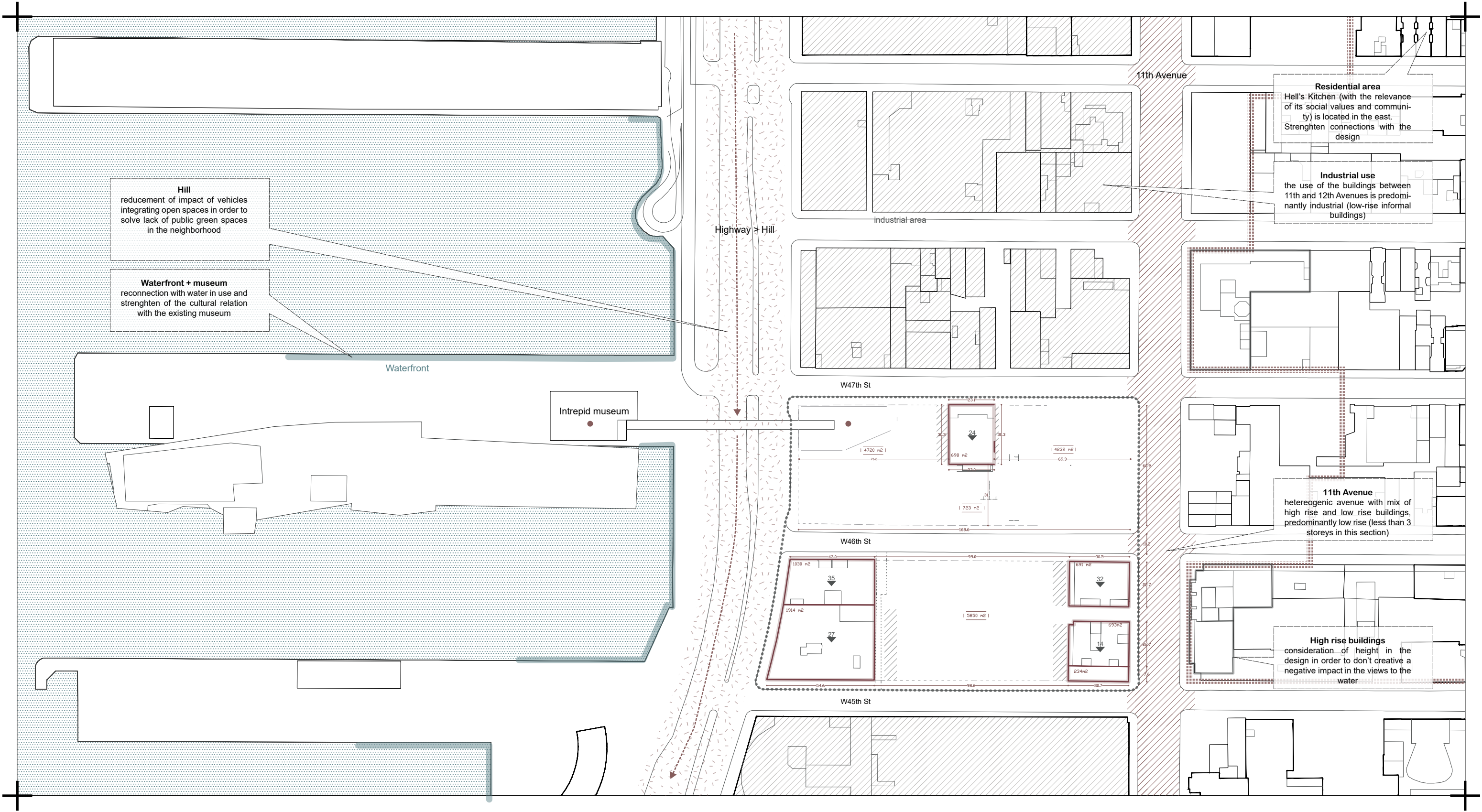
response to the site



response to the transitory needs

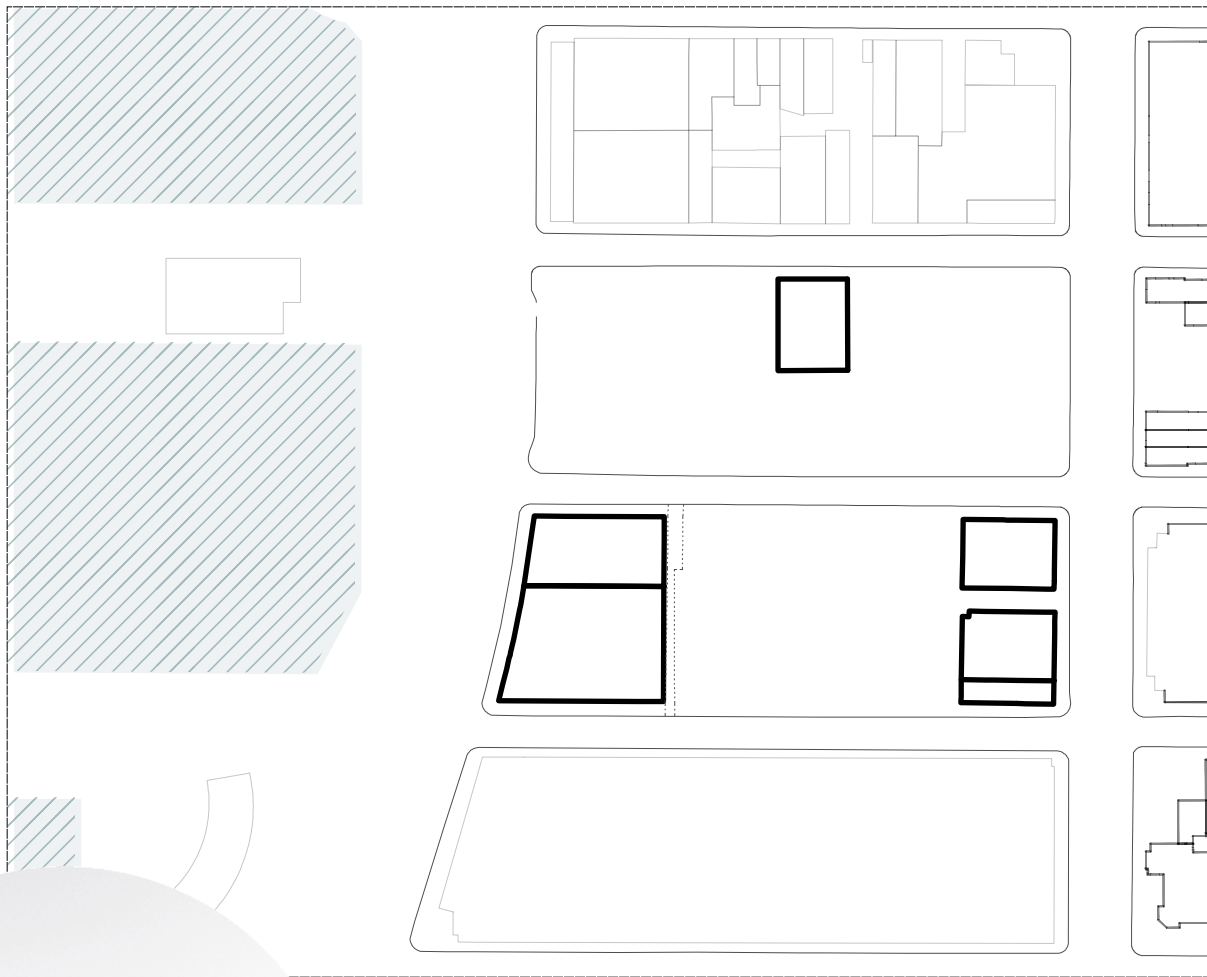
Response to the site

- anchors -



Response to the site

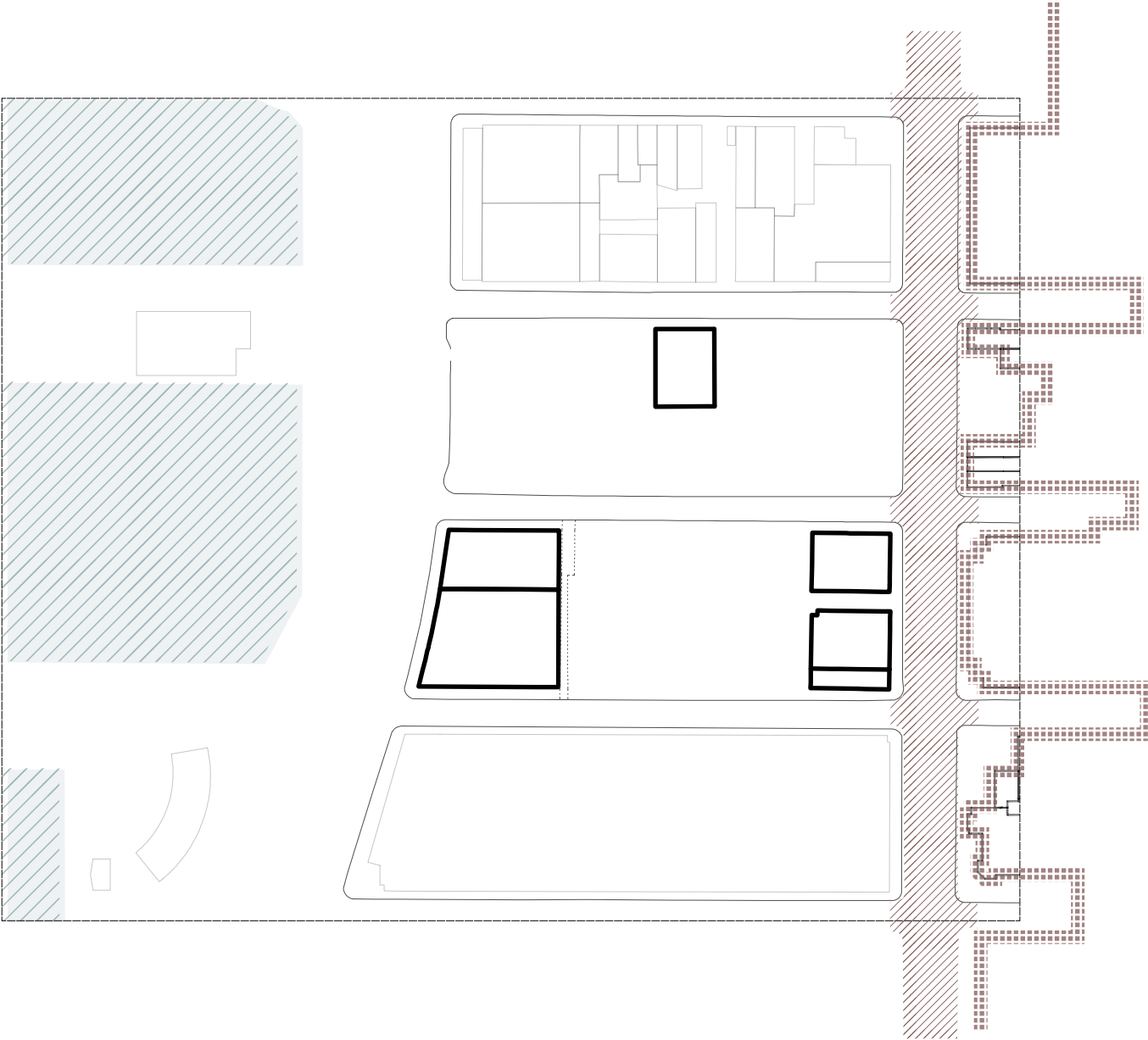
- anchors -



Preexisting industrial buildings

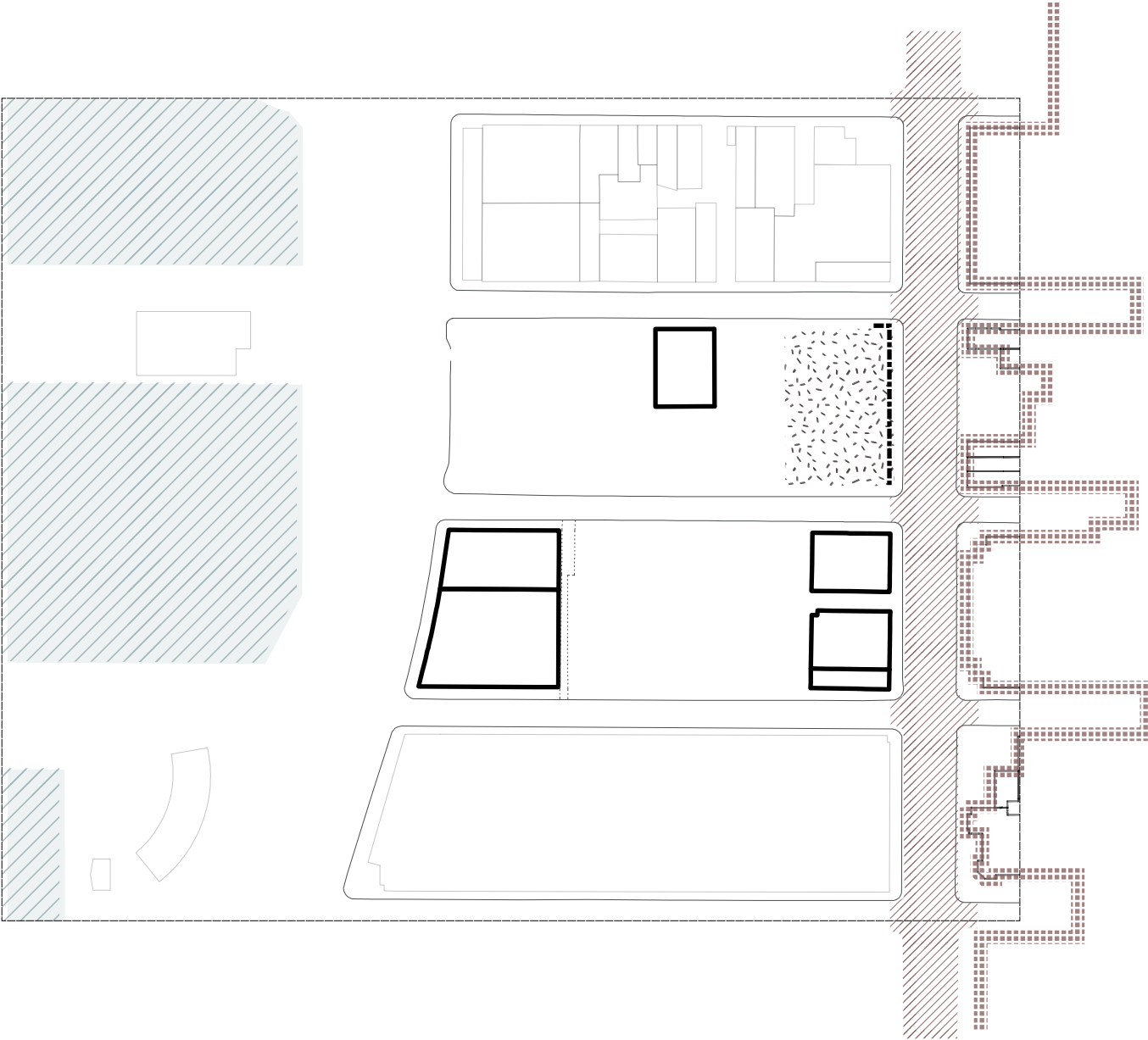


Response to the site
- anchors -



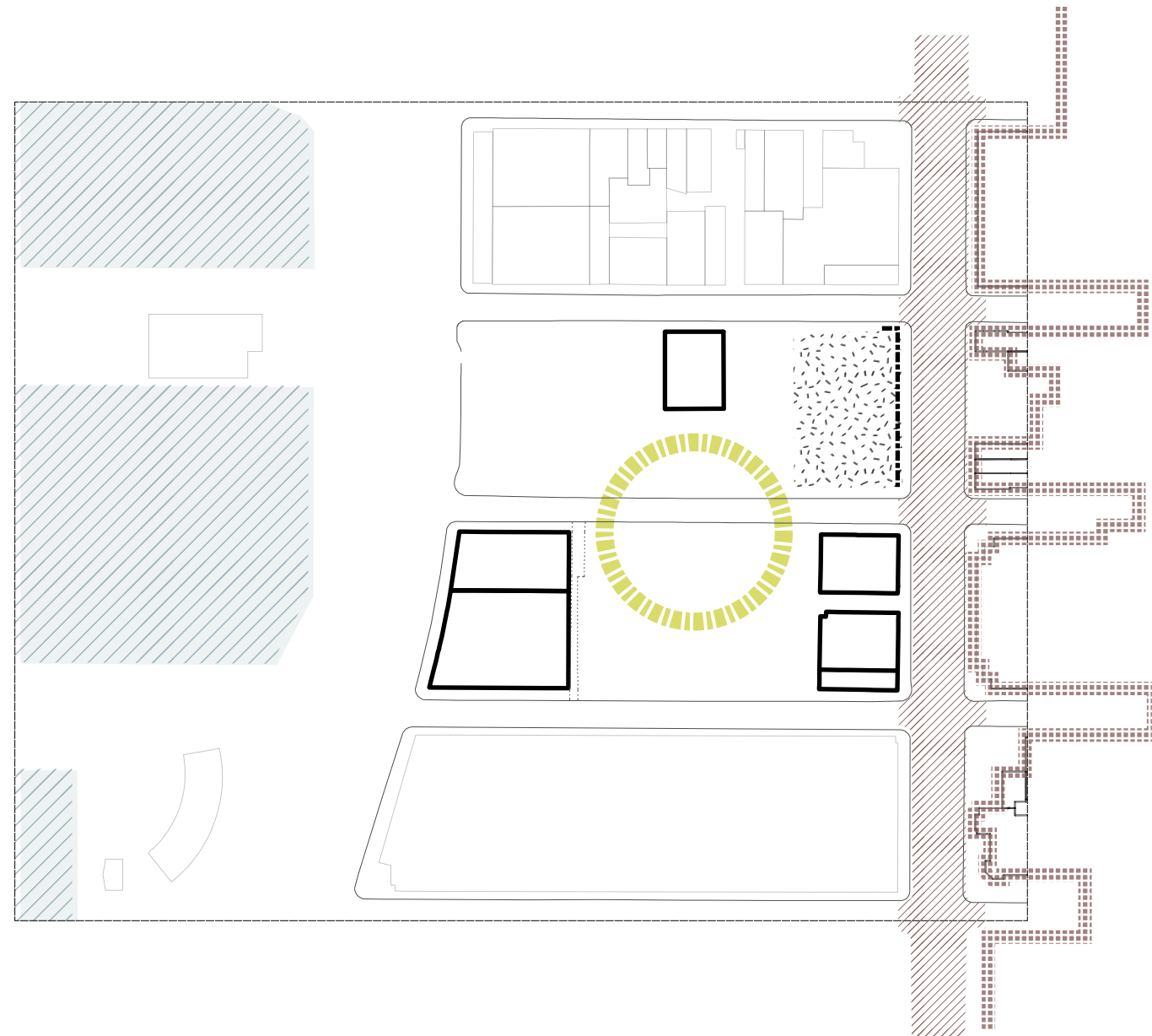
The city and Hell's Kitchen

Response to the site
- anchors -



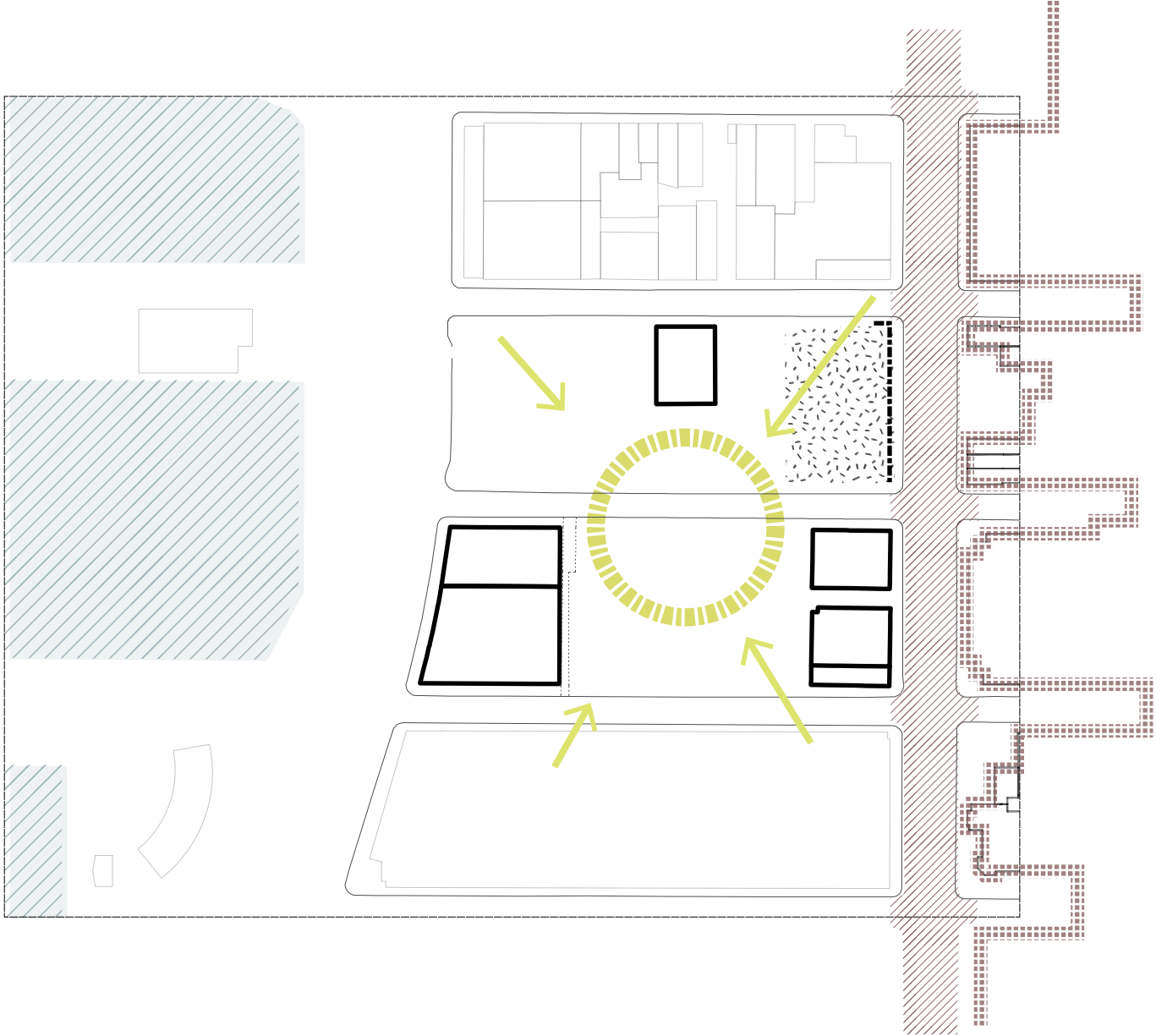
The city and Hell's Kitchen

Response to the site
- anchors -



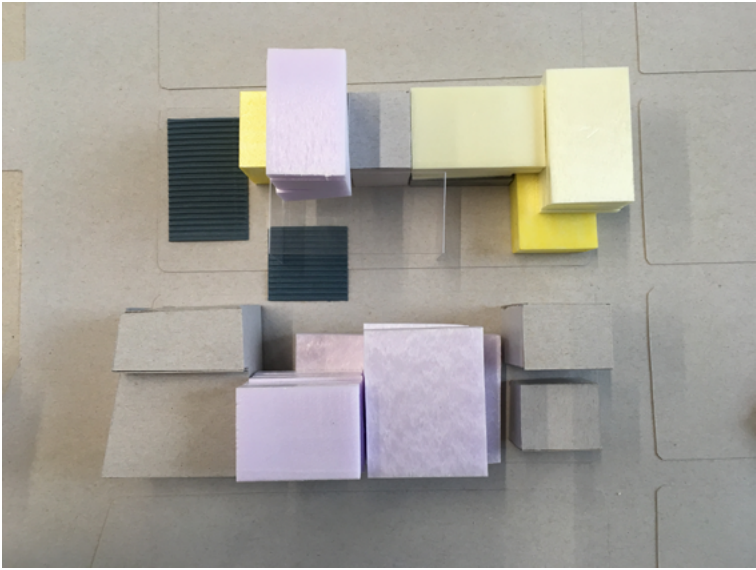
The courtyard

Response to the site
- anchors -

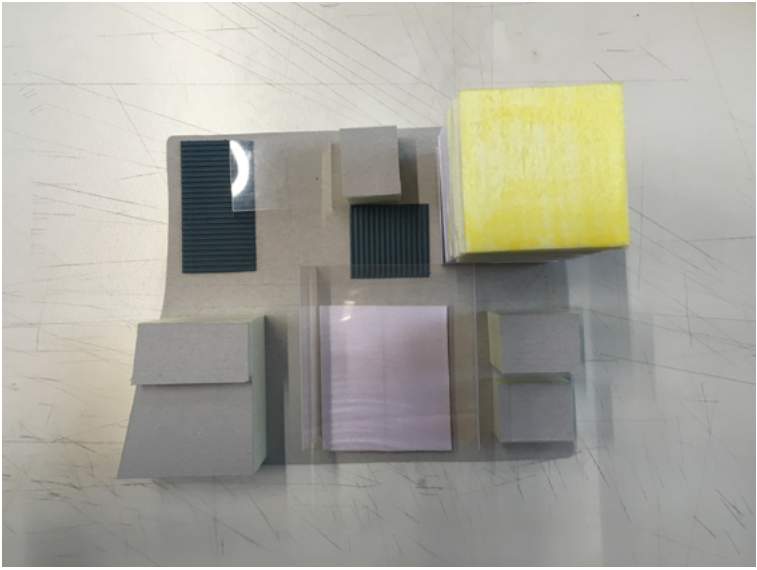


The courtyard

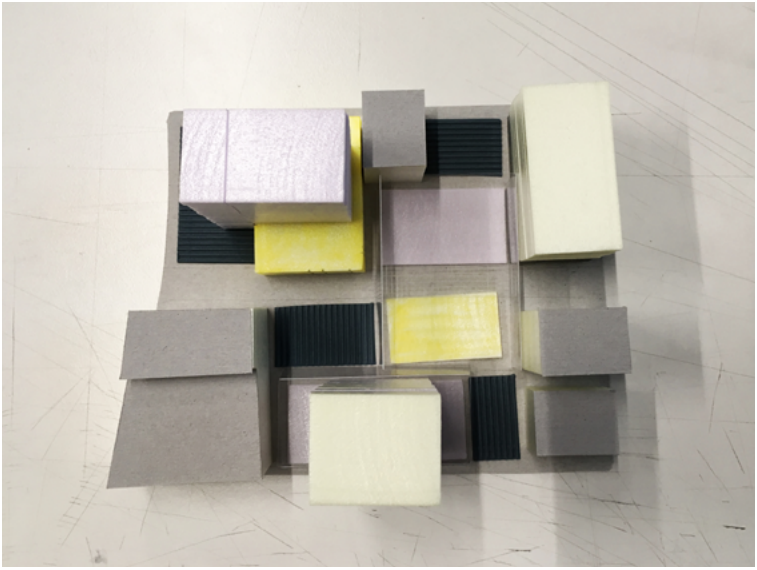
Different possibilities of development around the anchors



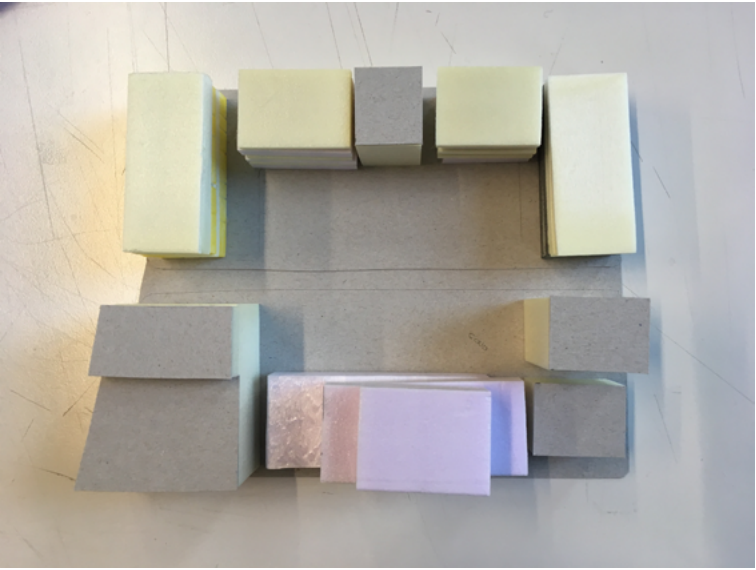
1



2

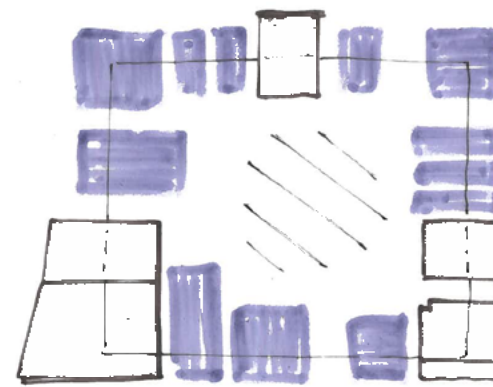


3



4

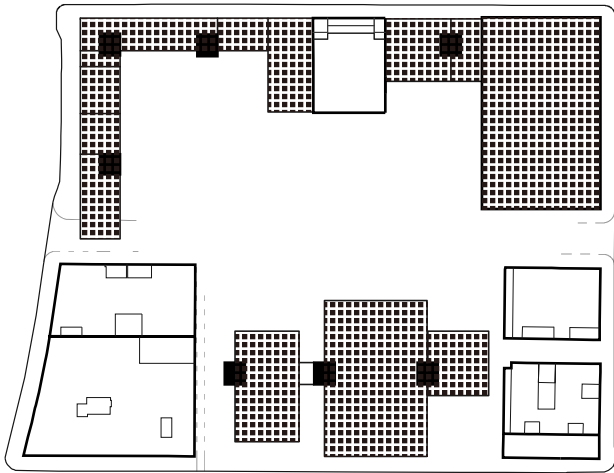
District arrangement



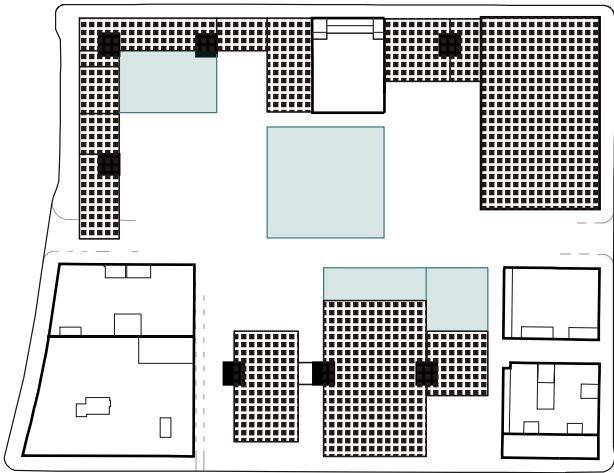
flexible process of development in relation to the anchors

no fixed sizes but a comprehension of needs in the specific
moment of development
(market conditions)

Design of the district



building arrangement

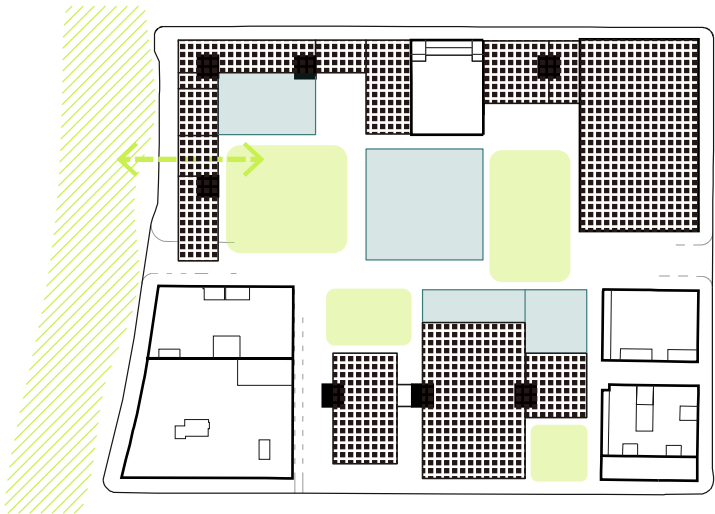


meeting space in central courtyard

- mix between manufacture and community -

+

elevation of public space



sequence of open spaces

Specific uses the District

small manufacture
administration
makers collectives
temporary spaces -exhibition-

housing
community spaces

community spaces
cafe+restaurants

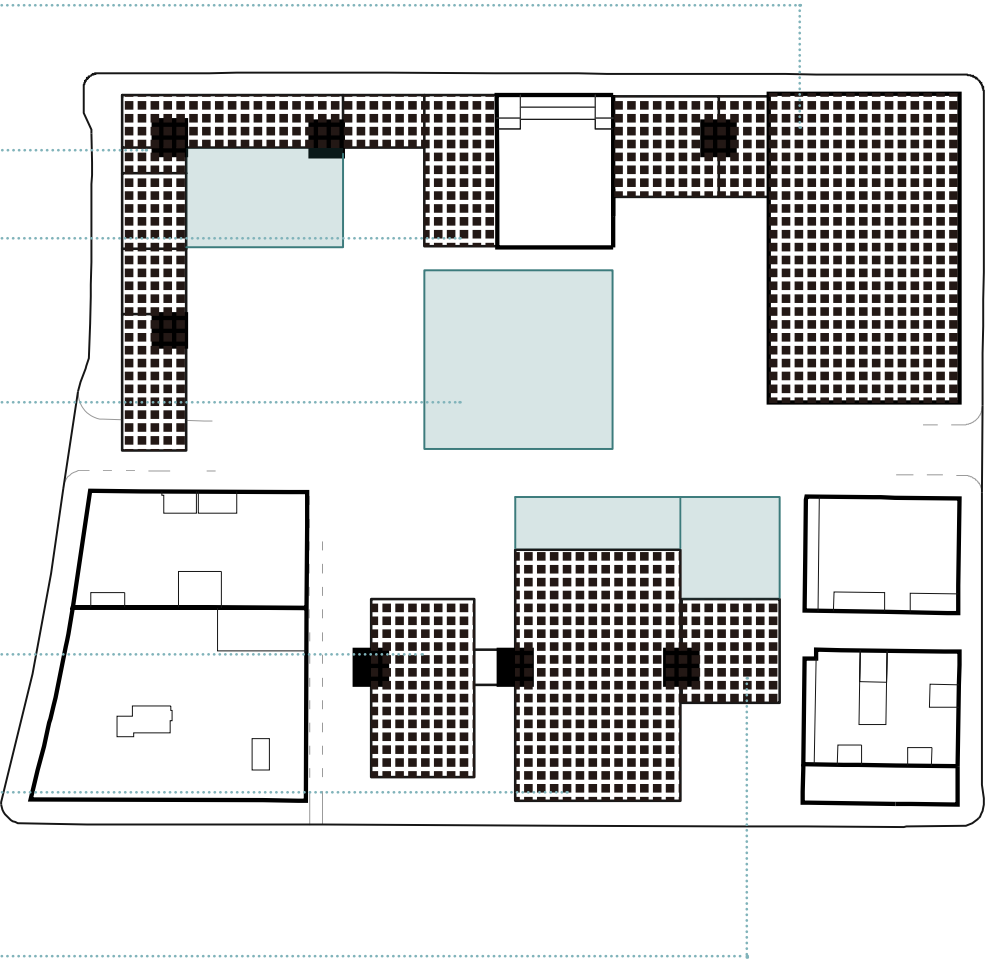
market
-retail+exhibition-

food market

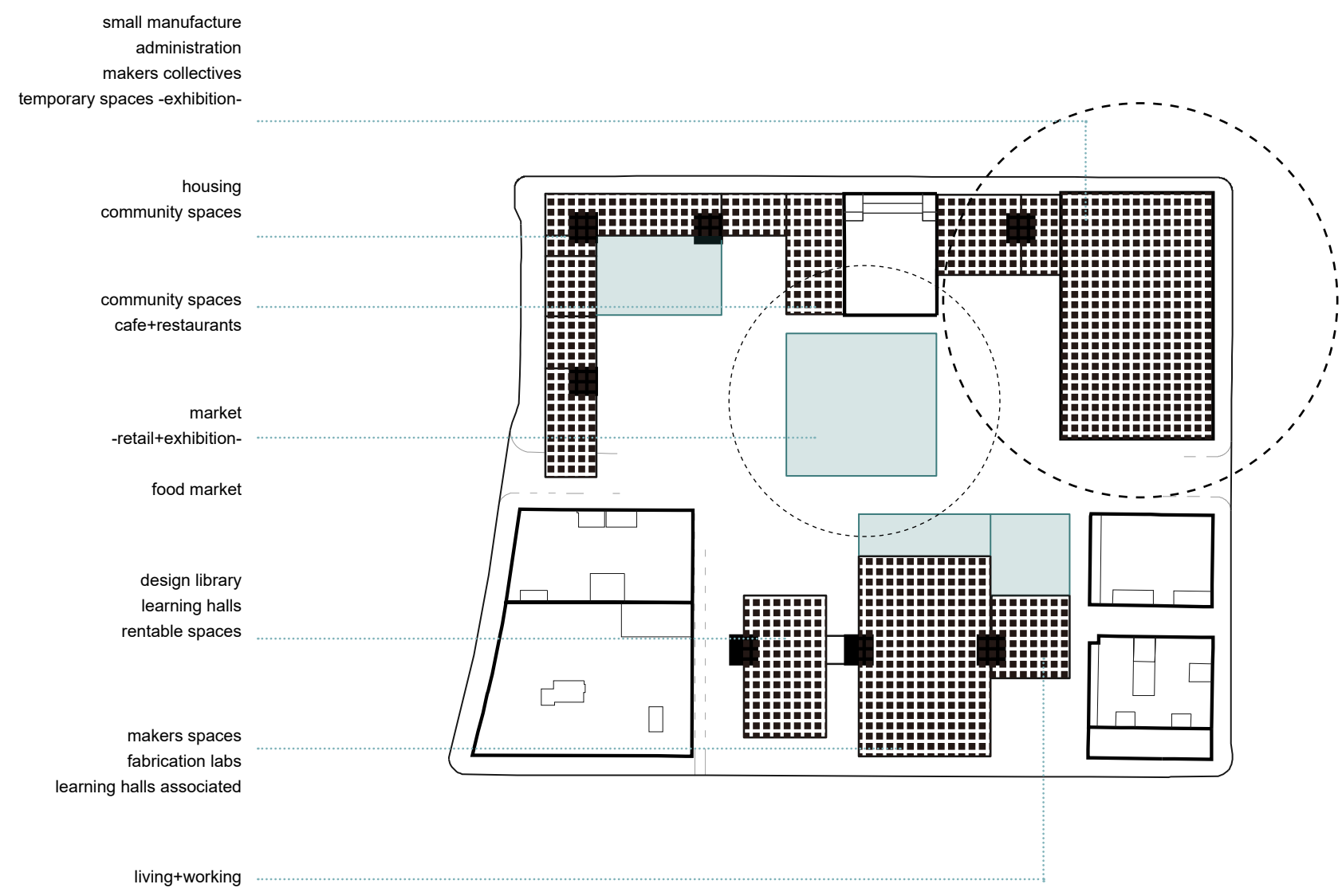
design library
learning halls
rentable spaces

makers spaces
fabrication labs
learning halls associated

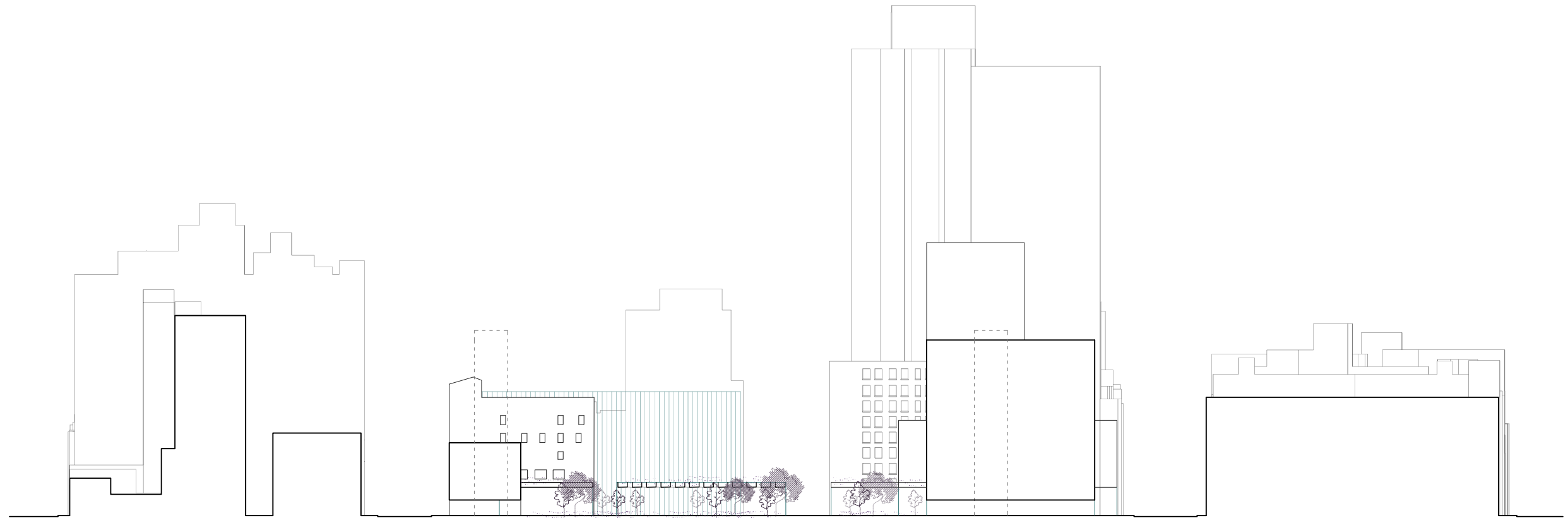
living+working

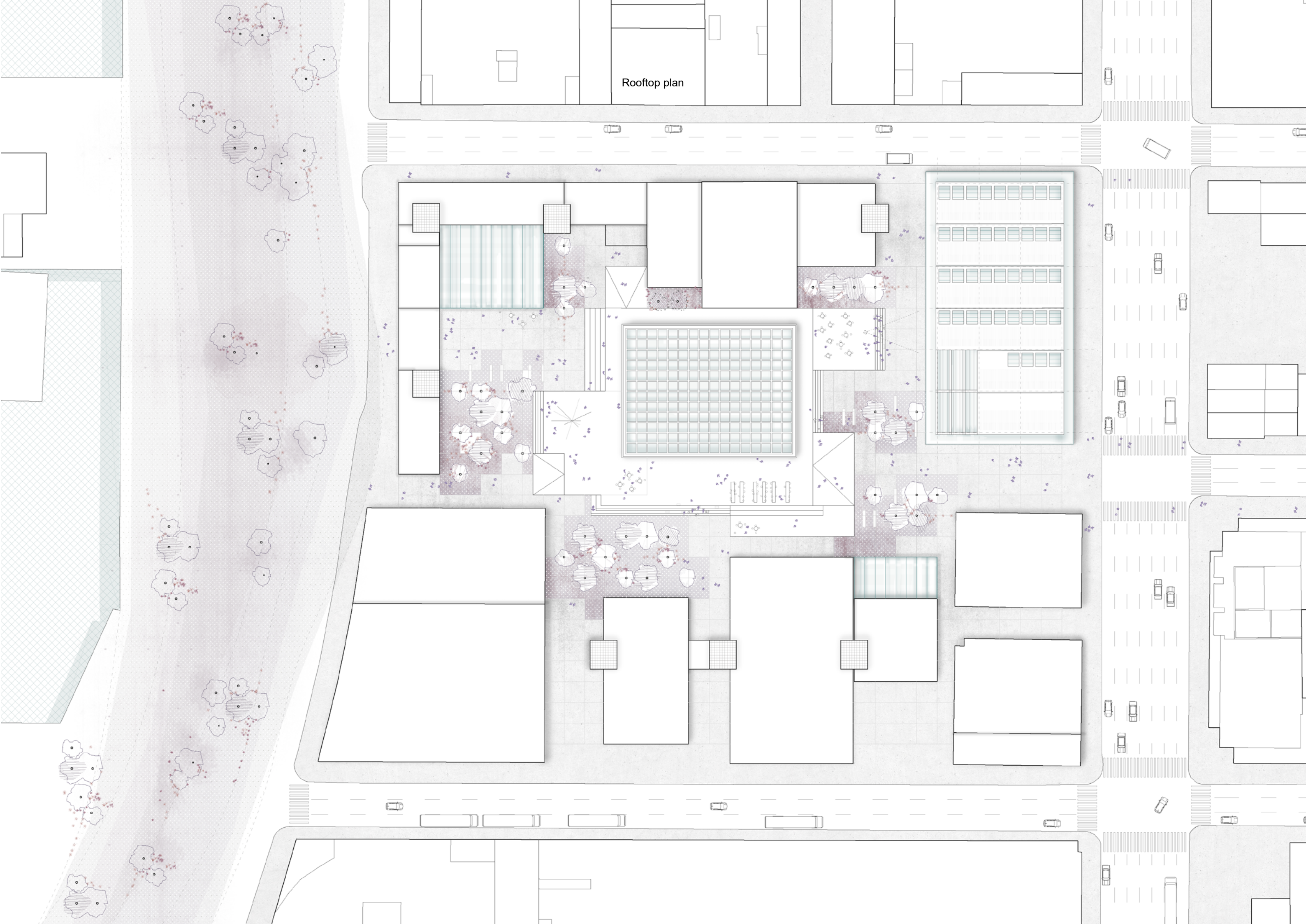


Specific uses the District



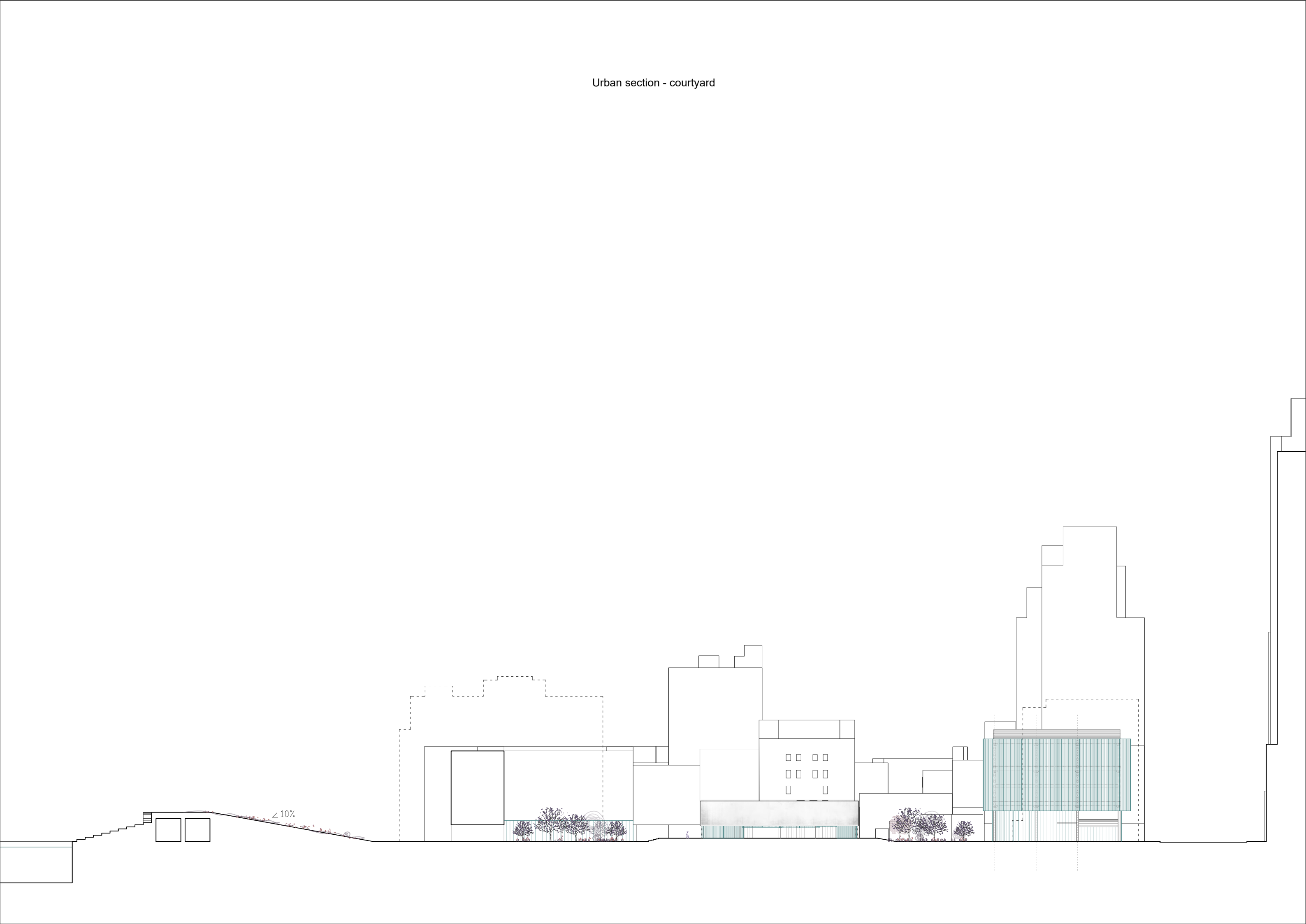
Section of the District





Rooftop plan

Urban section - courtyard



The Makers District

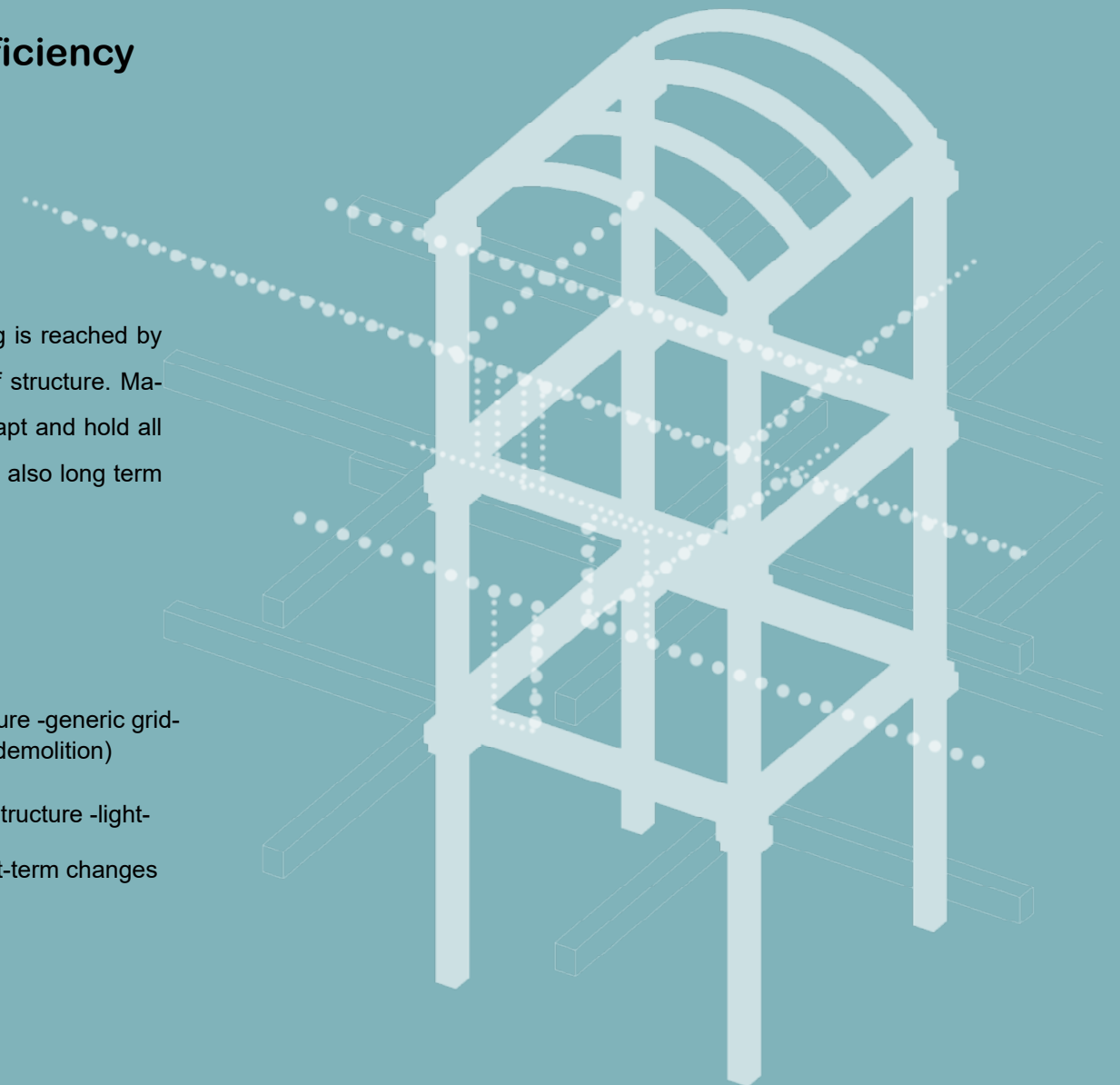
The building

adaptability + efficiency

The adaptability of the building is reached by the incorporation of 2 types of structure. Making the spaces be able to adapt and hold all kinds of uses in short term but also long term perspective.

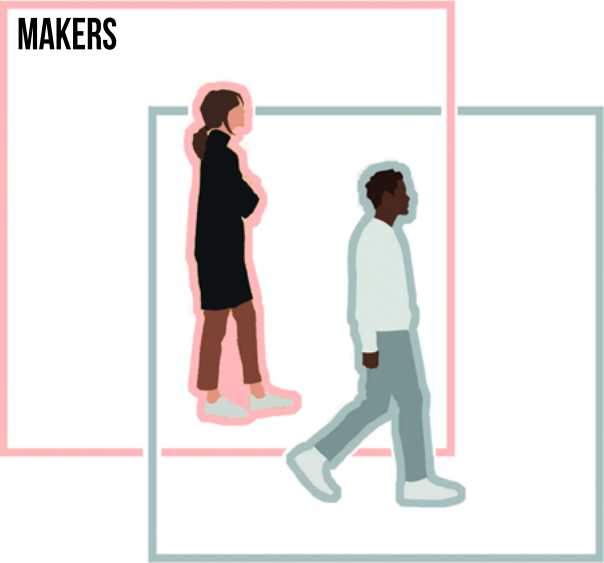
structural system

- > main-permanent structure -generic grid-(avoiding need of future demolition)
- > secondary-temporary structure -light-easily adaptable for short-term changes

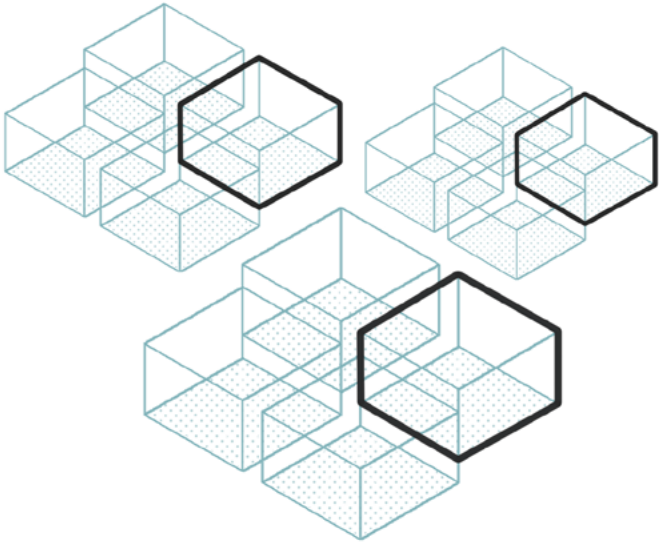


spaces + organization

Uses required



Uses required

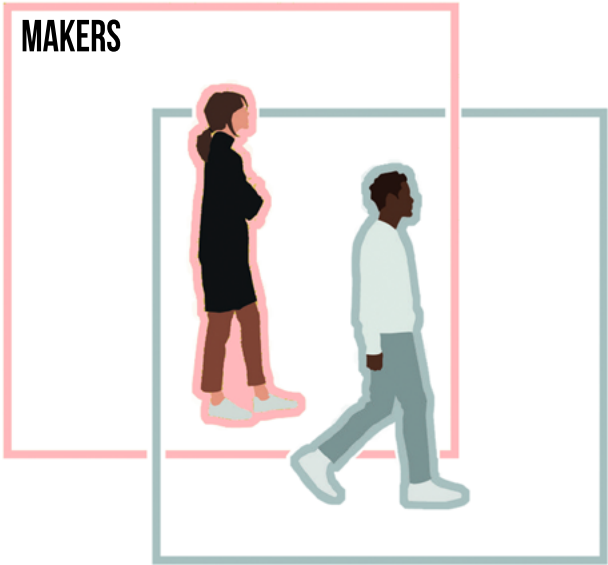


MAKERS SPACES

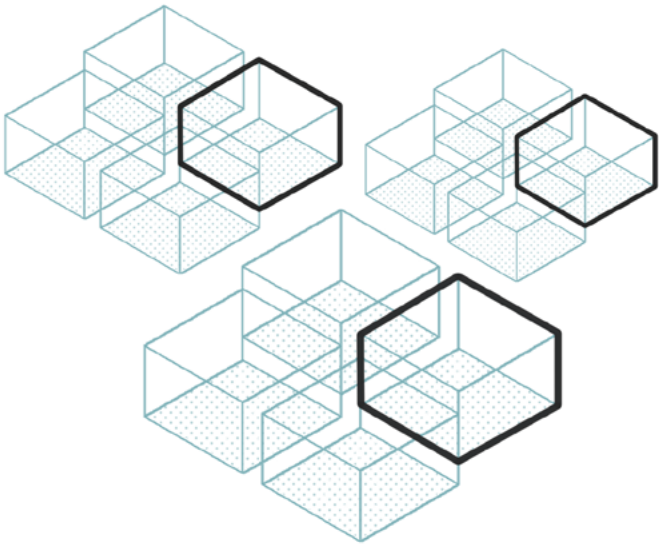
production

collectives
rentable spaces

benefits:
co-location
feasibility



Uses required

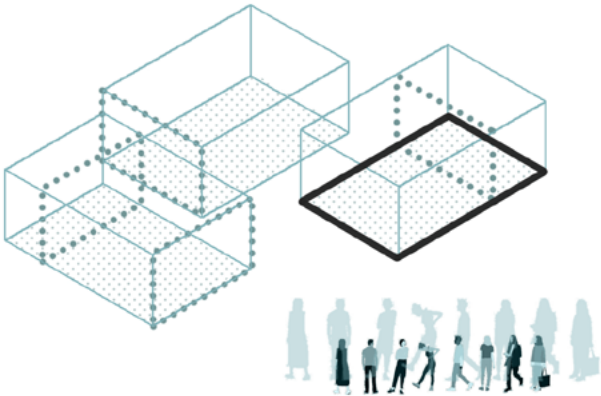
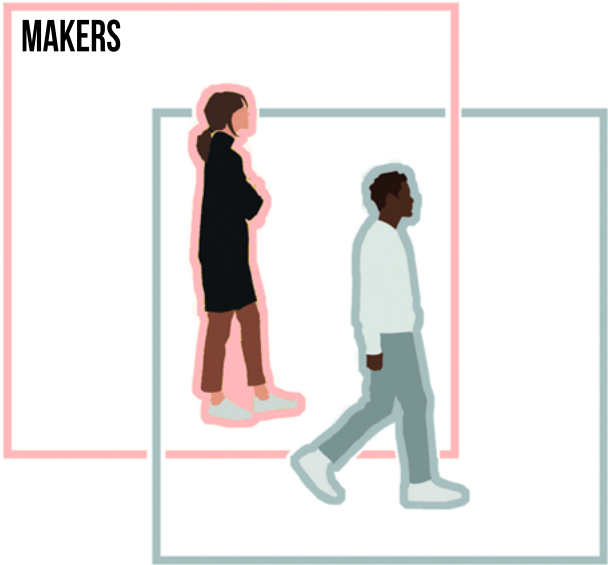


MAKERS SPACES

production

collectives
rentable spaces

benefits:
co-location
feasibility

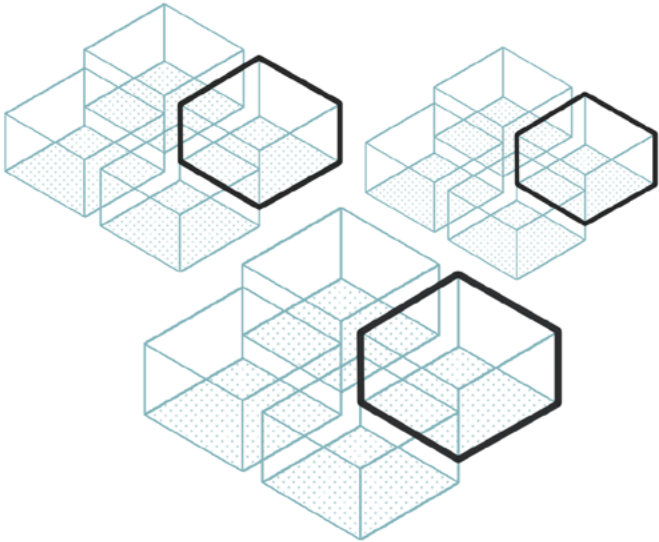
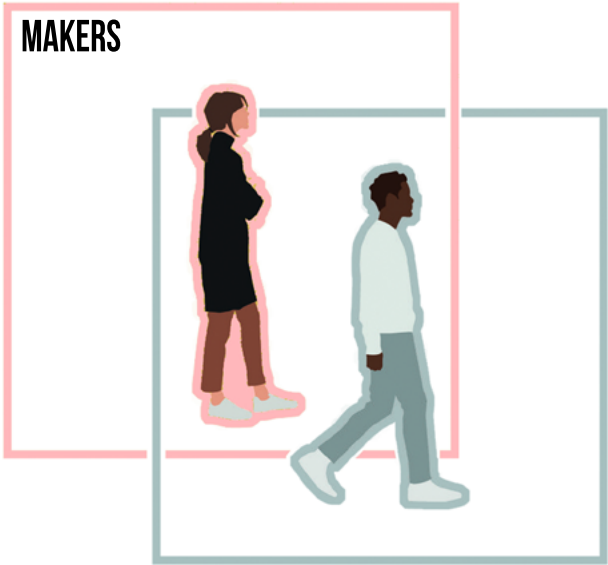


LEARNING + MEETING HALLS

rentable spaces
education

benefits:
economic income
relationship with externals
social benefits (well-being)

Uses required

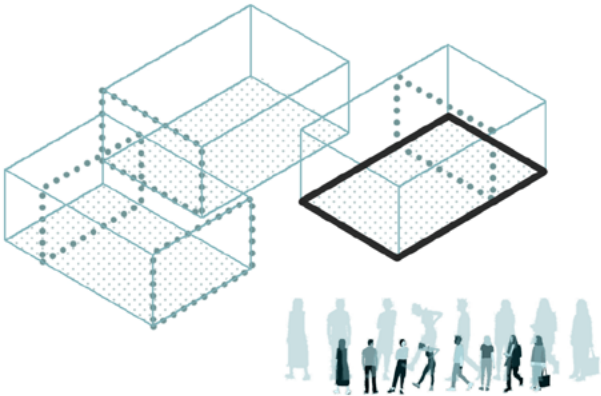


MAKERS SPACES

production

collectives
rentable spaces

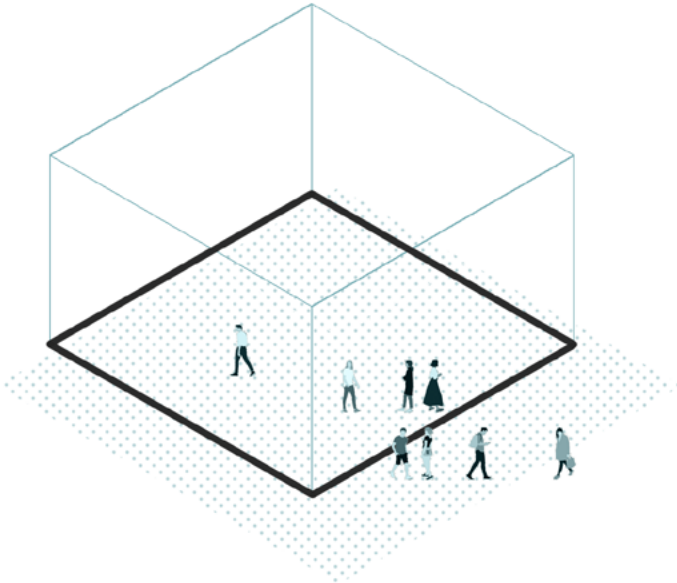
benefits:
co-location
feasibility



LEARNING + MEETING HALLS

rentable spaces
education

benefits:
economic income
relationship with externals
social benefits (well-being)



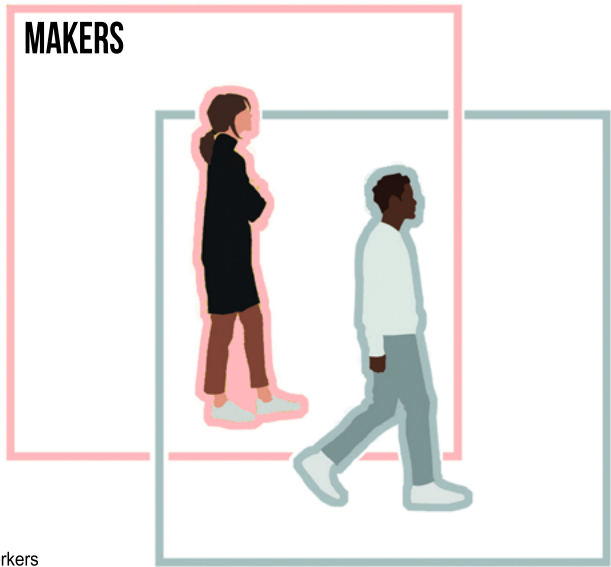
PROMOTION OF THE PRODUCED MATERIAL

showcases + exhibition + shop

benefits:
creation of a bran “Made in Manhattan”
income to sustain the project

Uses required

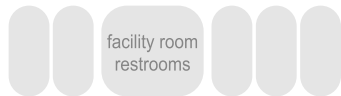
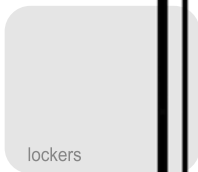
circulation of workers



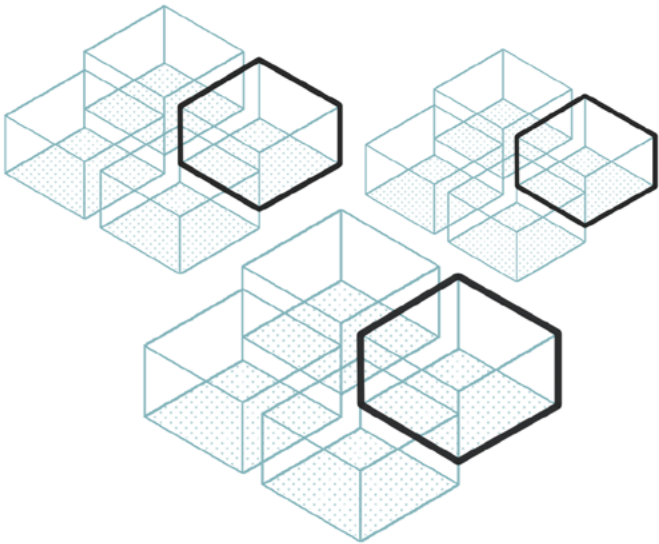
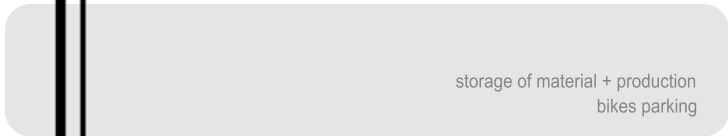
circulation of cgoods and materials



MATERIAL PROVIDER



vertical connection

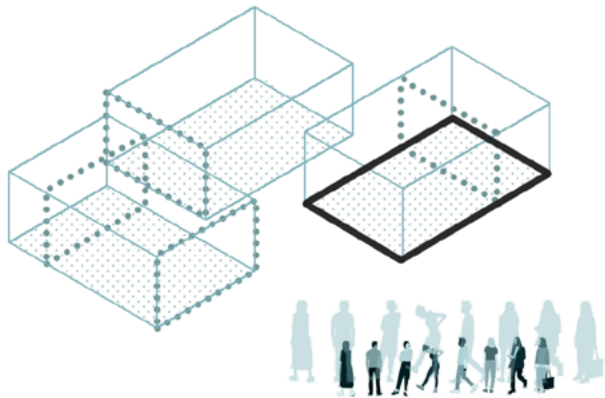


MAKERS SPACES

production

collectives
rentable spaces

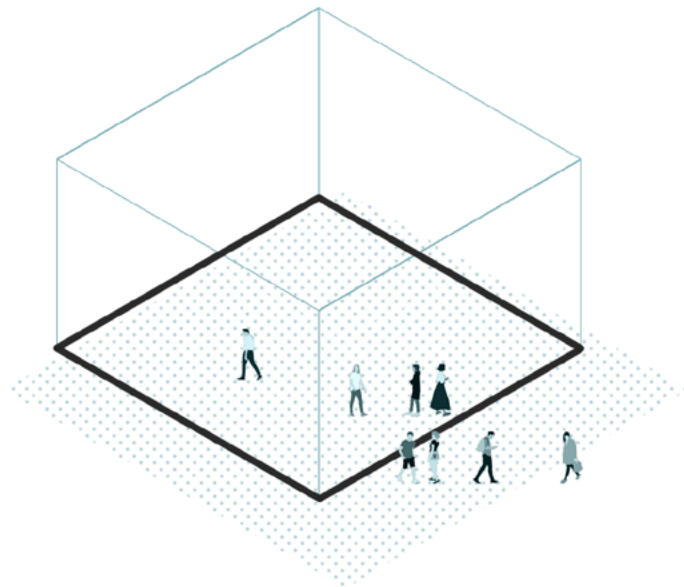
benefits:
co-location
feasibility



LEARNING + MEETING HALLS

rentable spaces
education

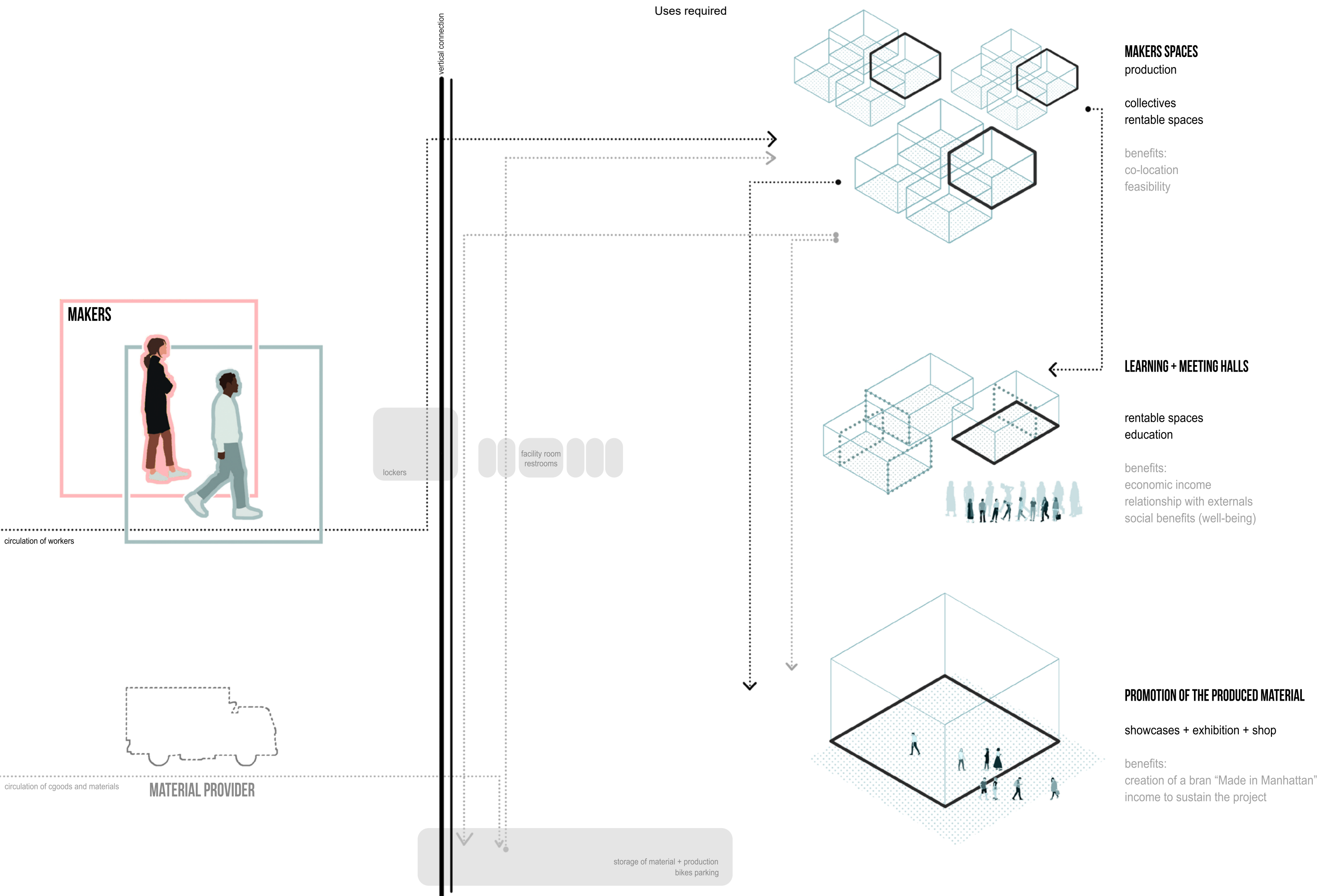
benefits:
economic income
relationship with externals
social benefits (well-being)

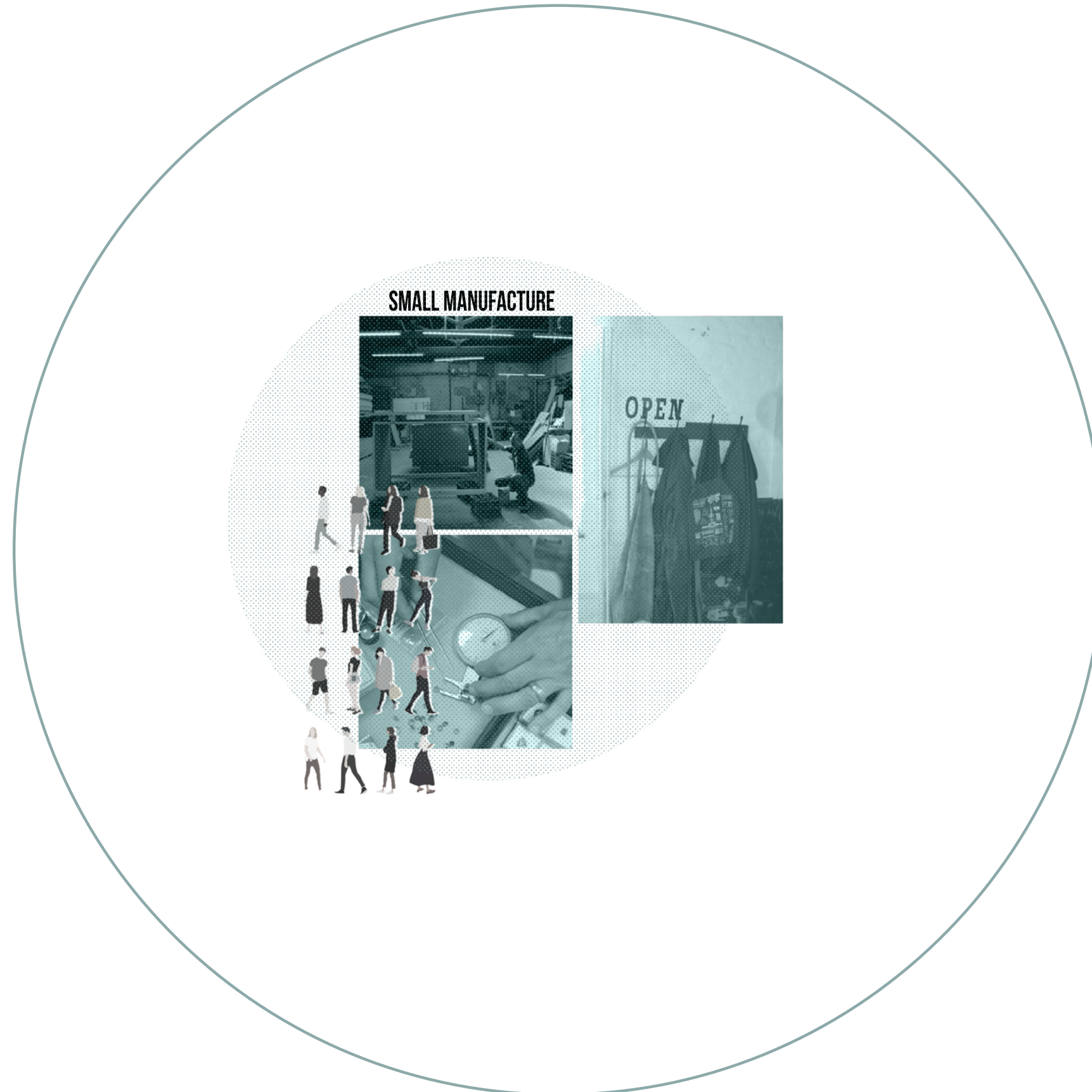


PROMOTION OF THE PRODUCED MATERIAL

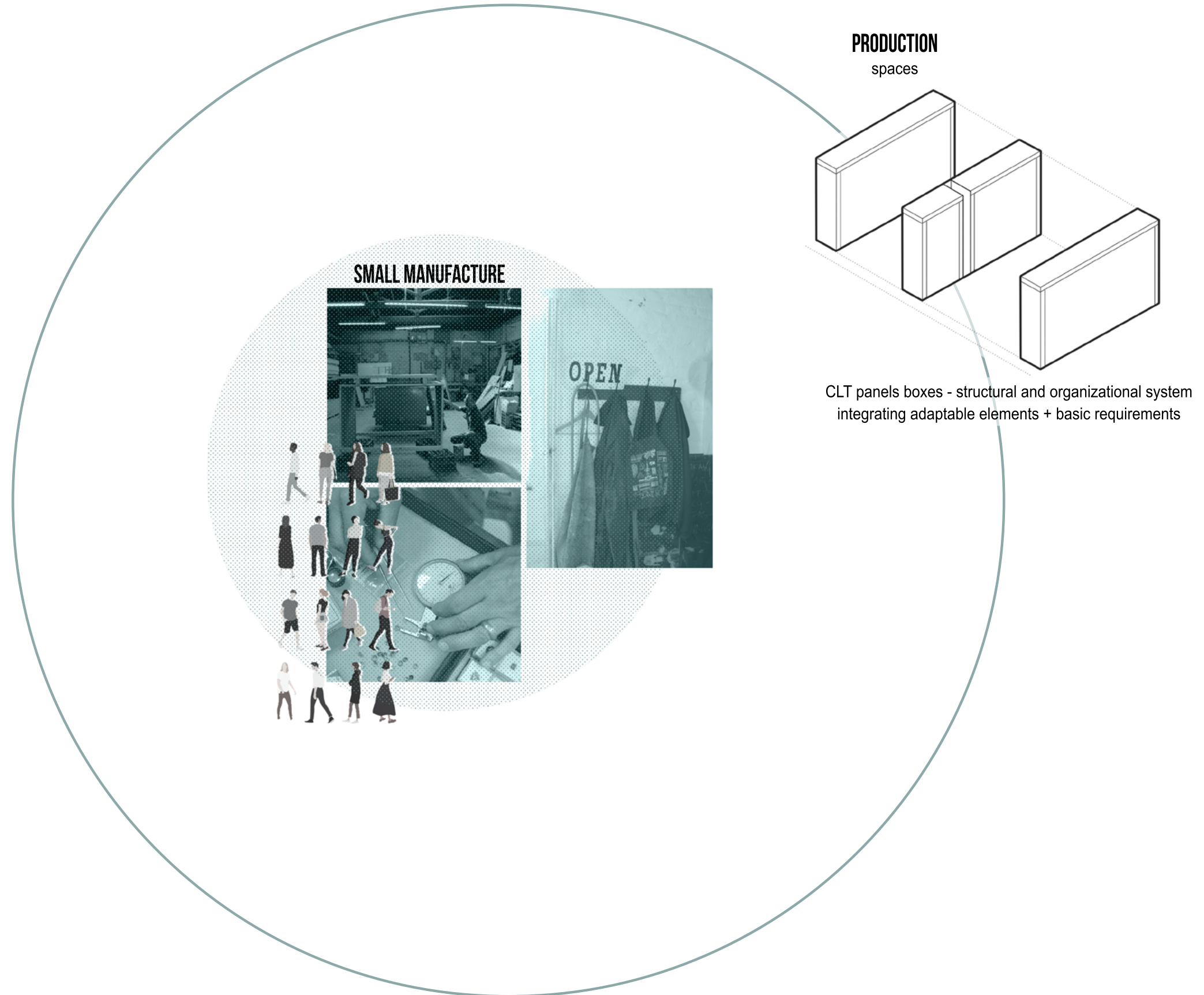
showcases + exhibition + shop

benefits:
creation of a bran “Made in Manhattan”
income to sustain the project

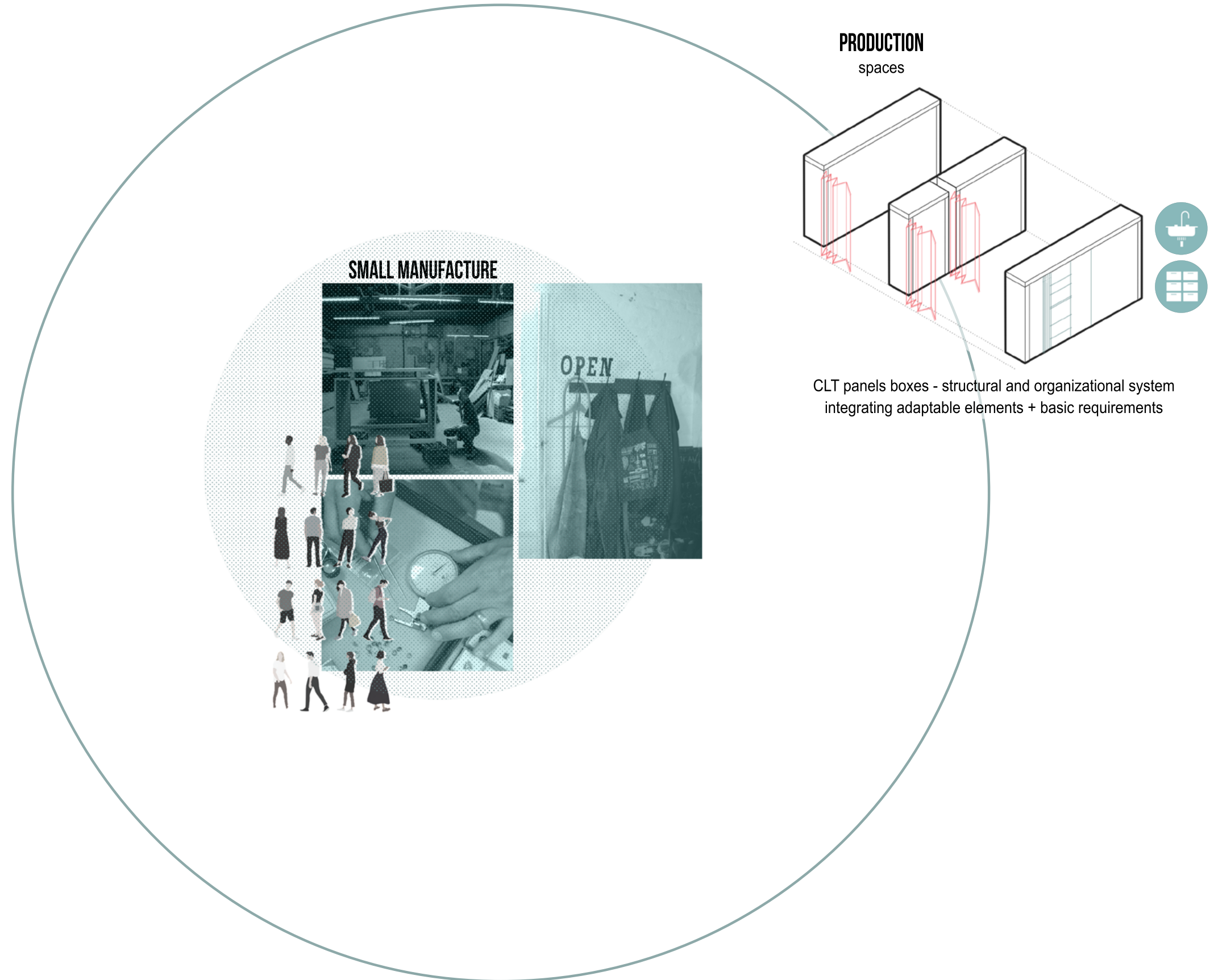




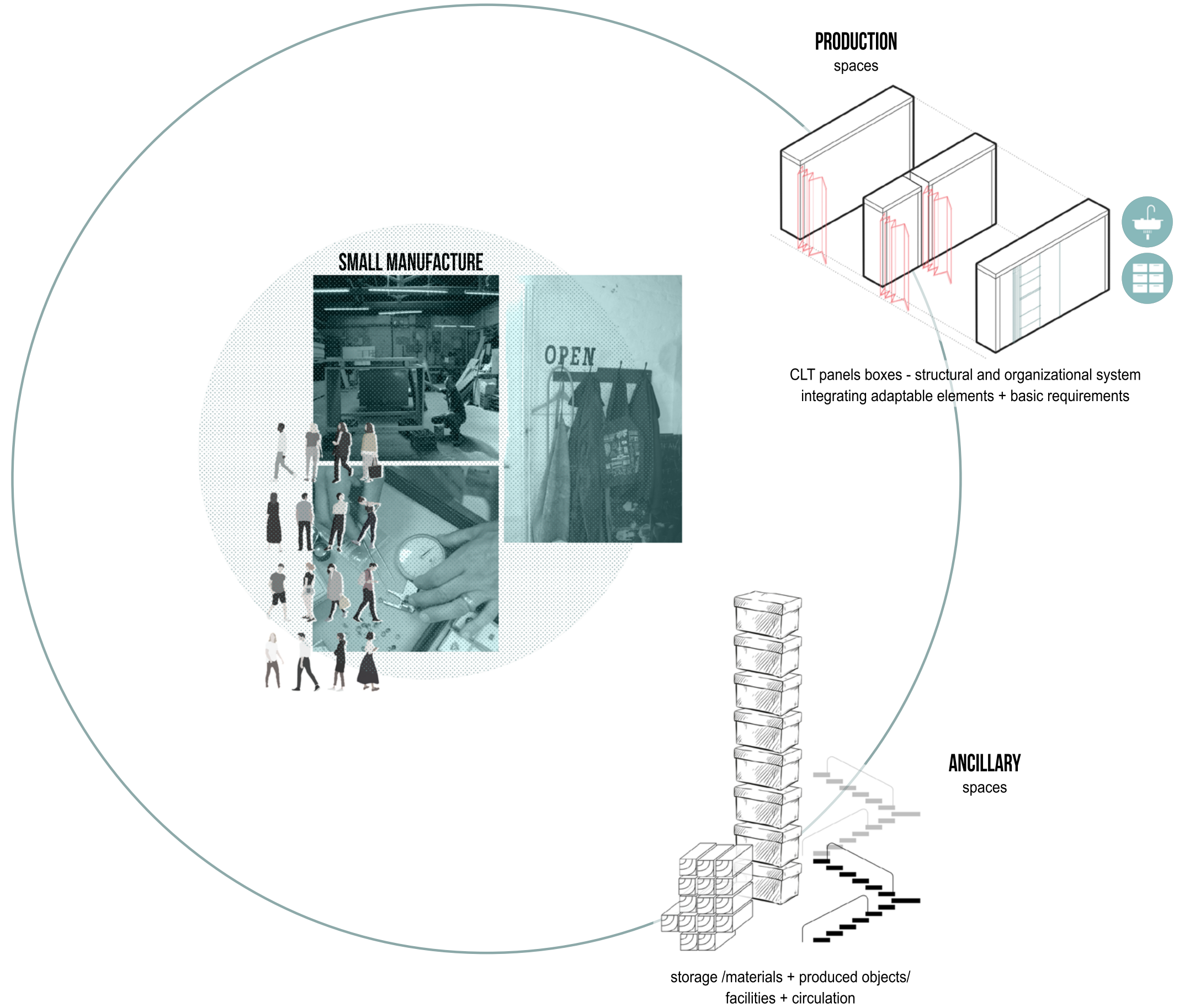
Types of spaces



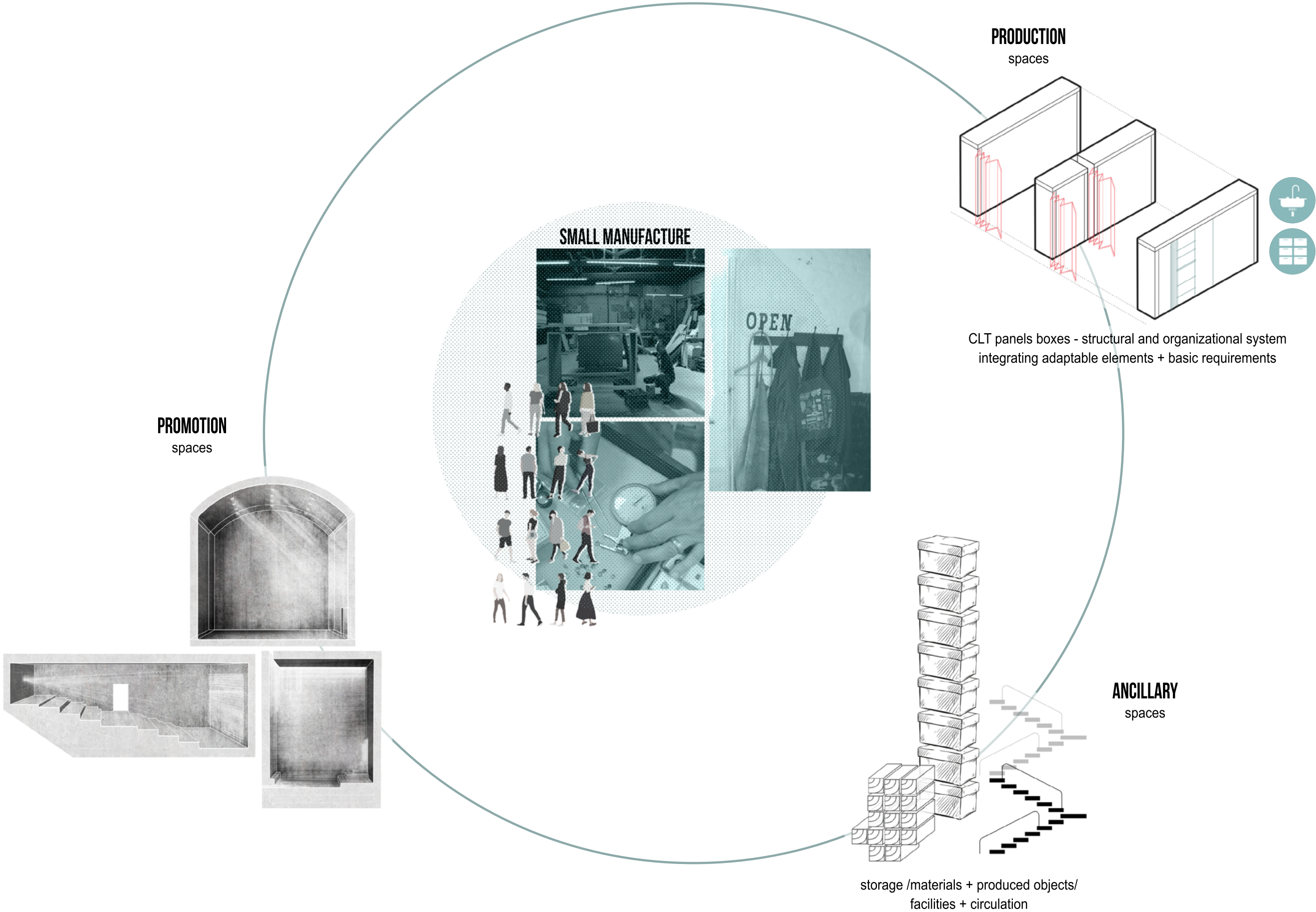
Types of spaces



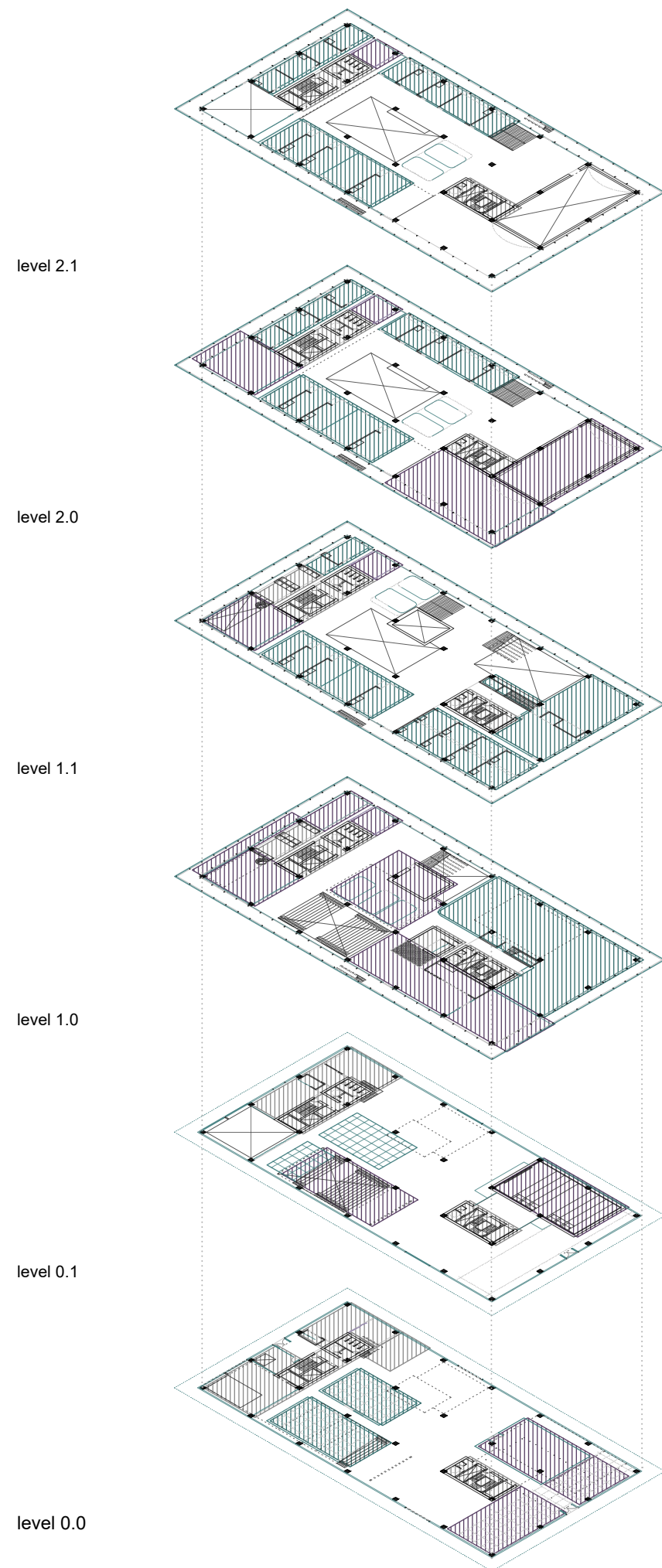
Types of spaces



Types of spaces



Distribution of uses
- options of future arrangement of productive activity -

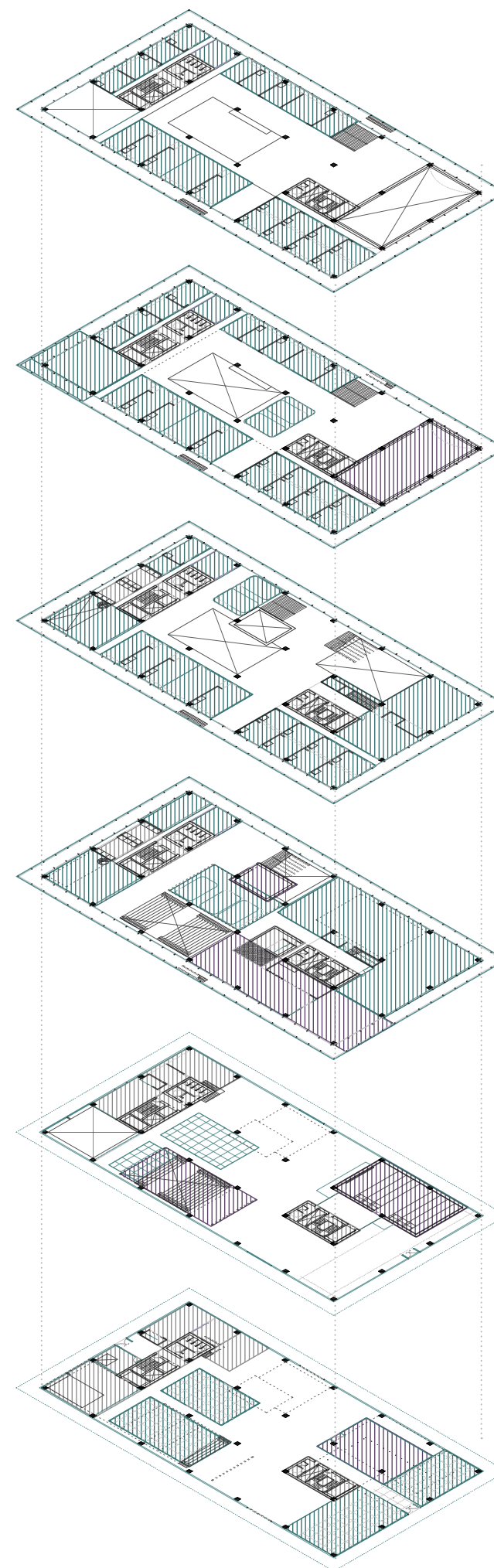


Opt.1 current proposal

42% production spaces

37% promotion/common spaces

21% ancillary spaces



Opt..2 intensive production

61% production spaces

18% promotion/common spaces

21% ancillary spaces

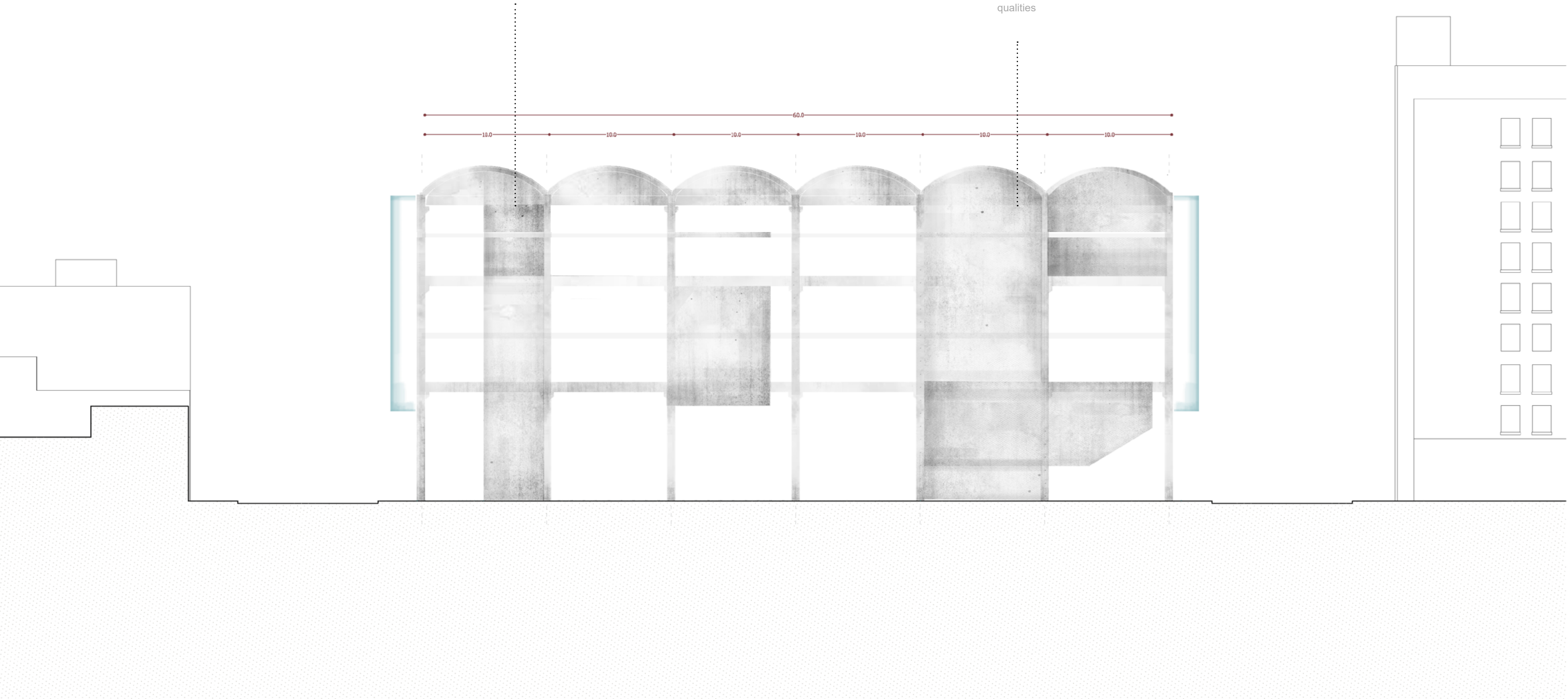
Conceptual section



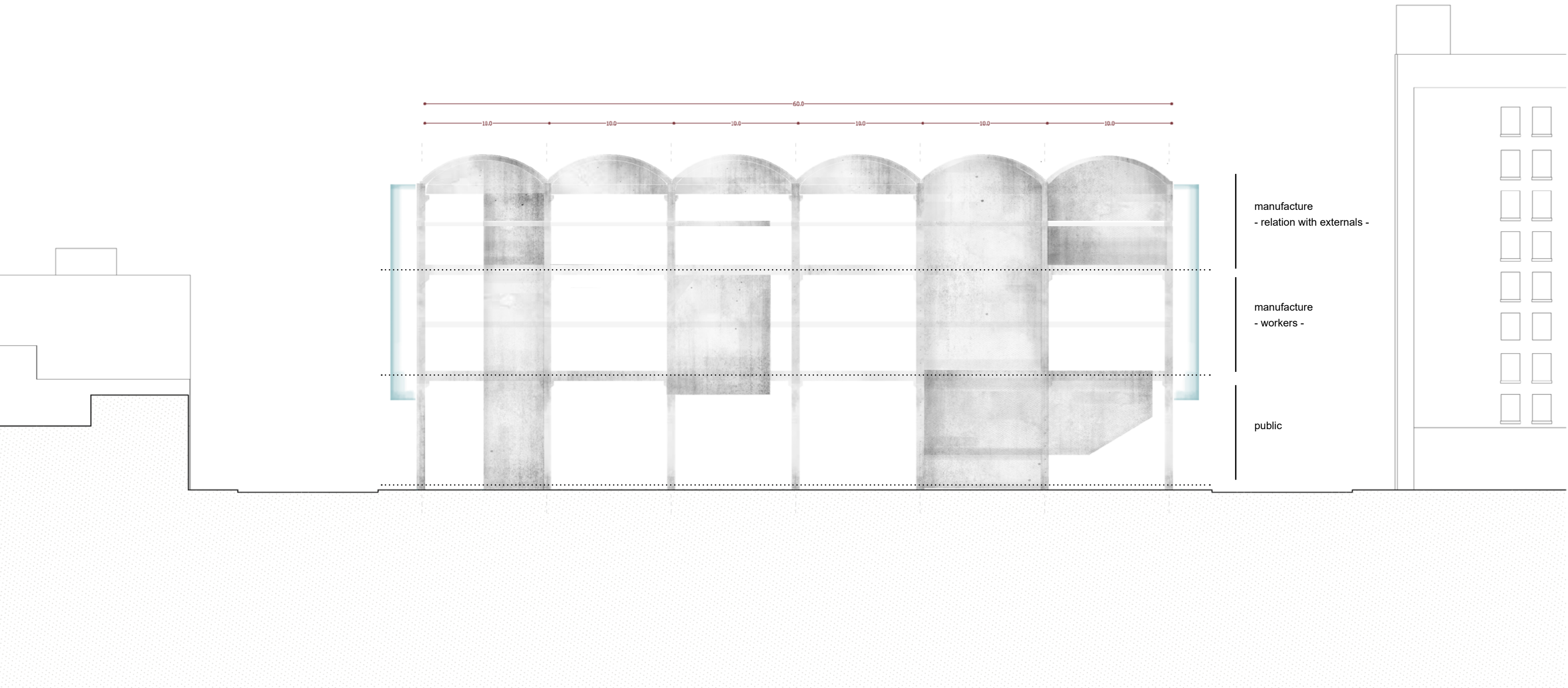
Cores

vertical core 1
/ service-workers /

vertical core 2
/ public-workers /
attached spaces with special
qualities

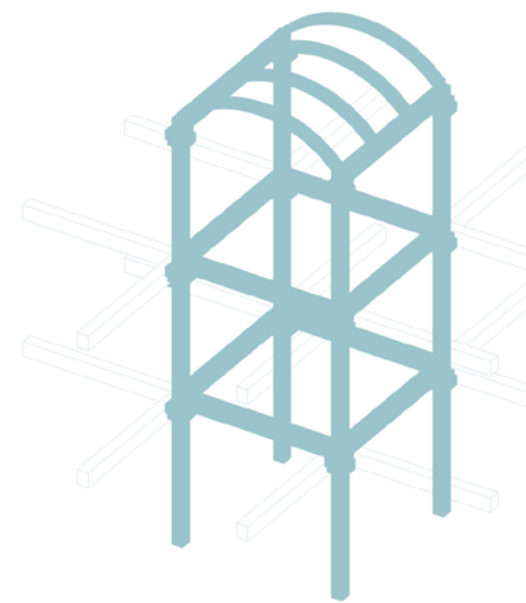


Organization of public-private spaces



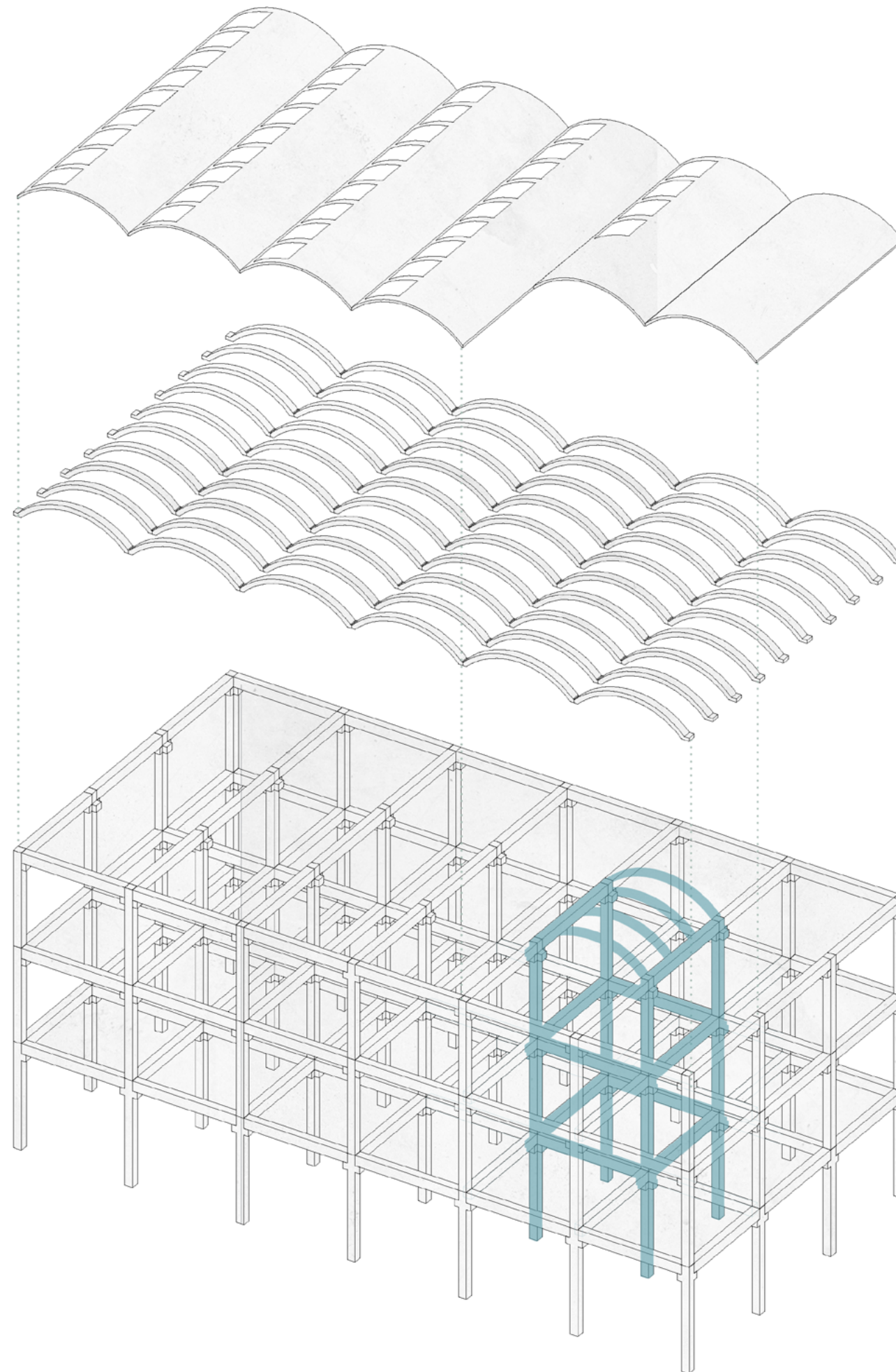
Structural system

Module 10x10 meters

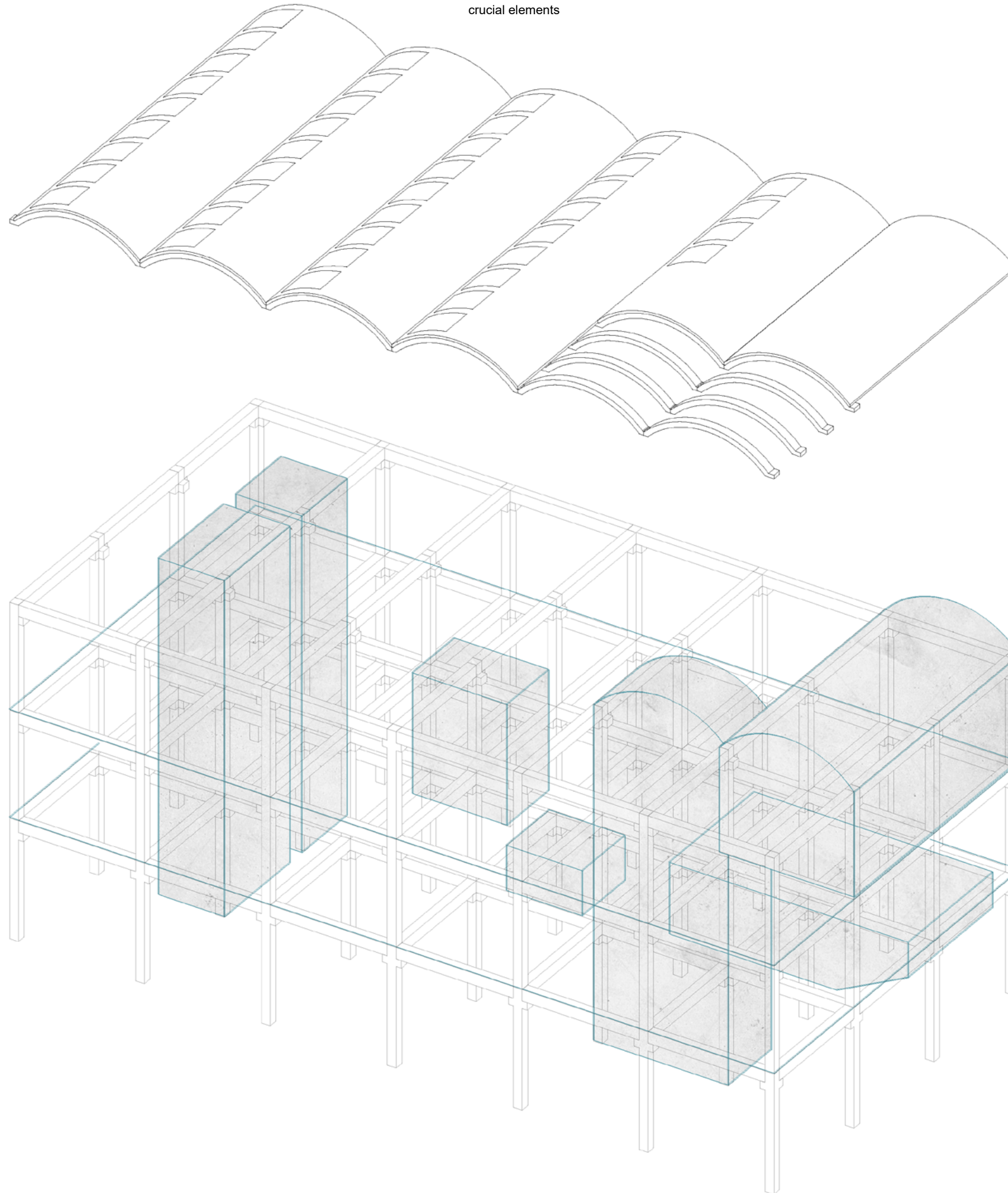


Structural system

genericity

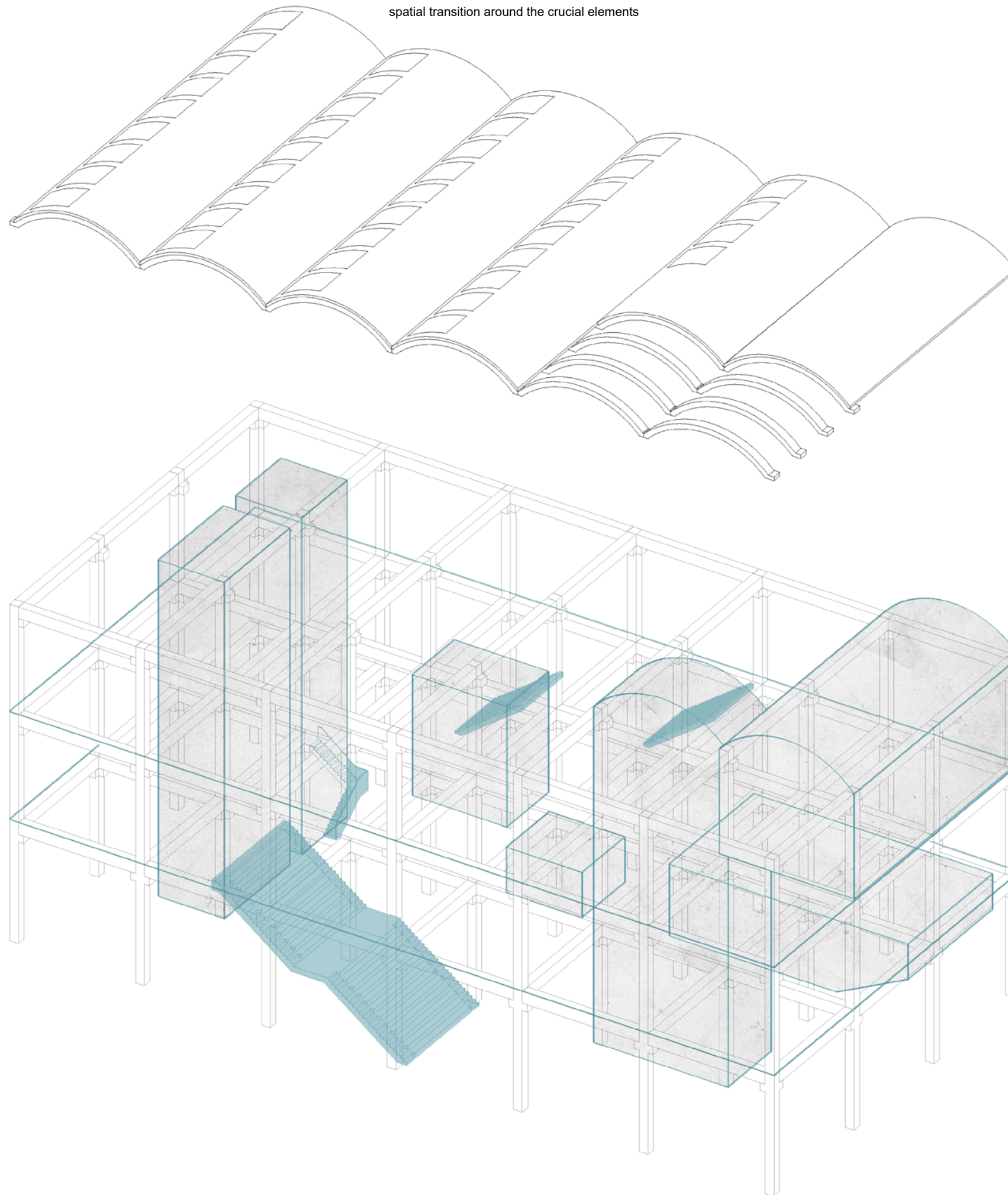


Structural system
crucial elements

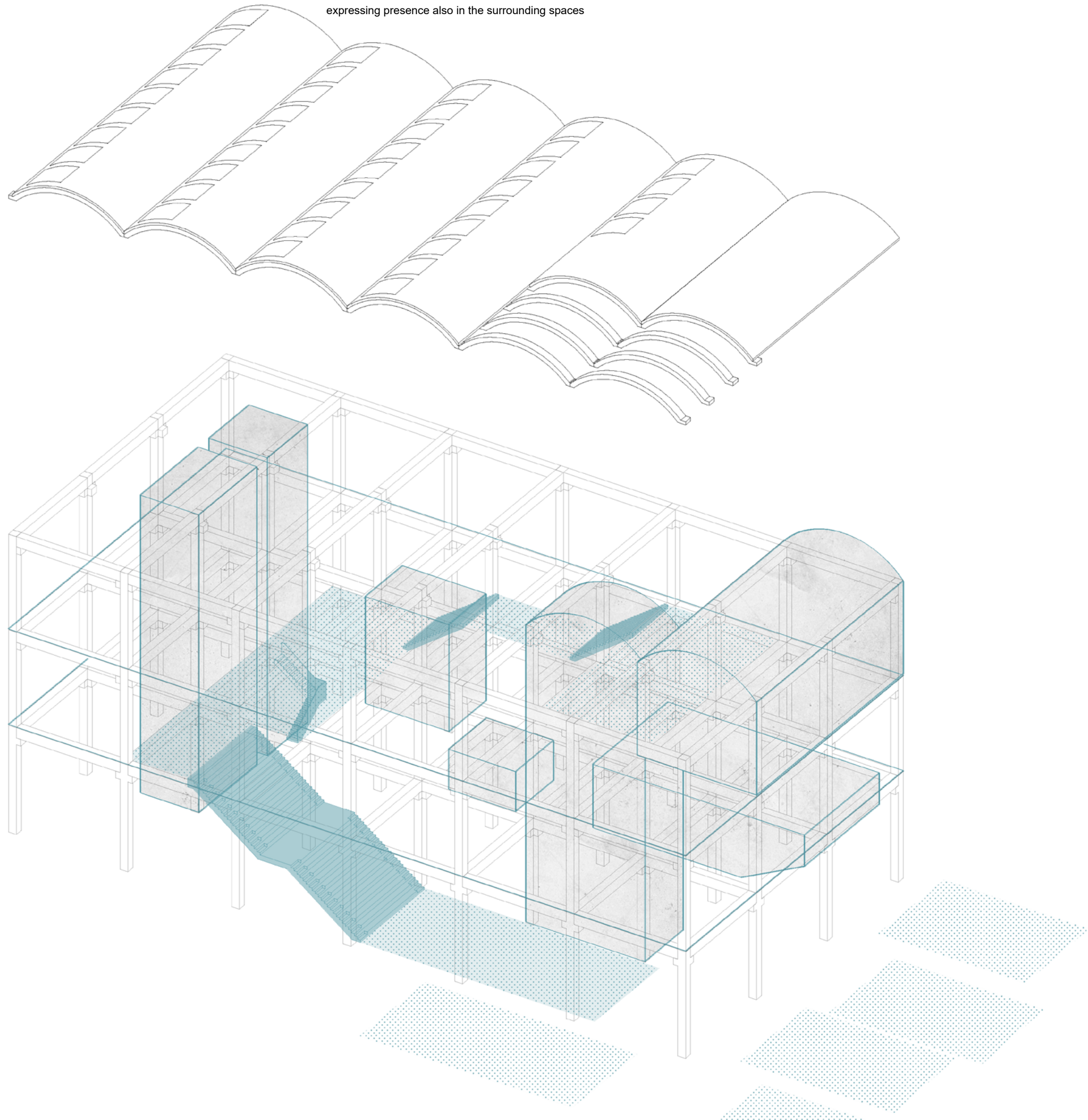


Structural system

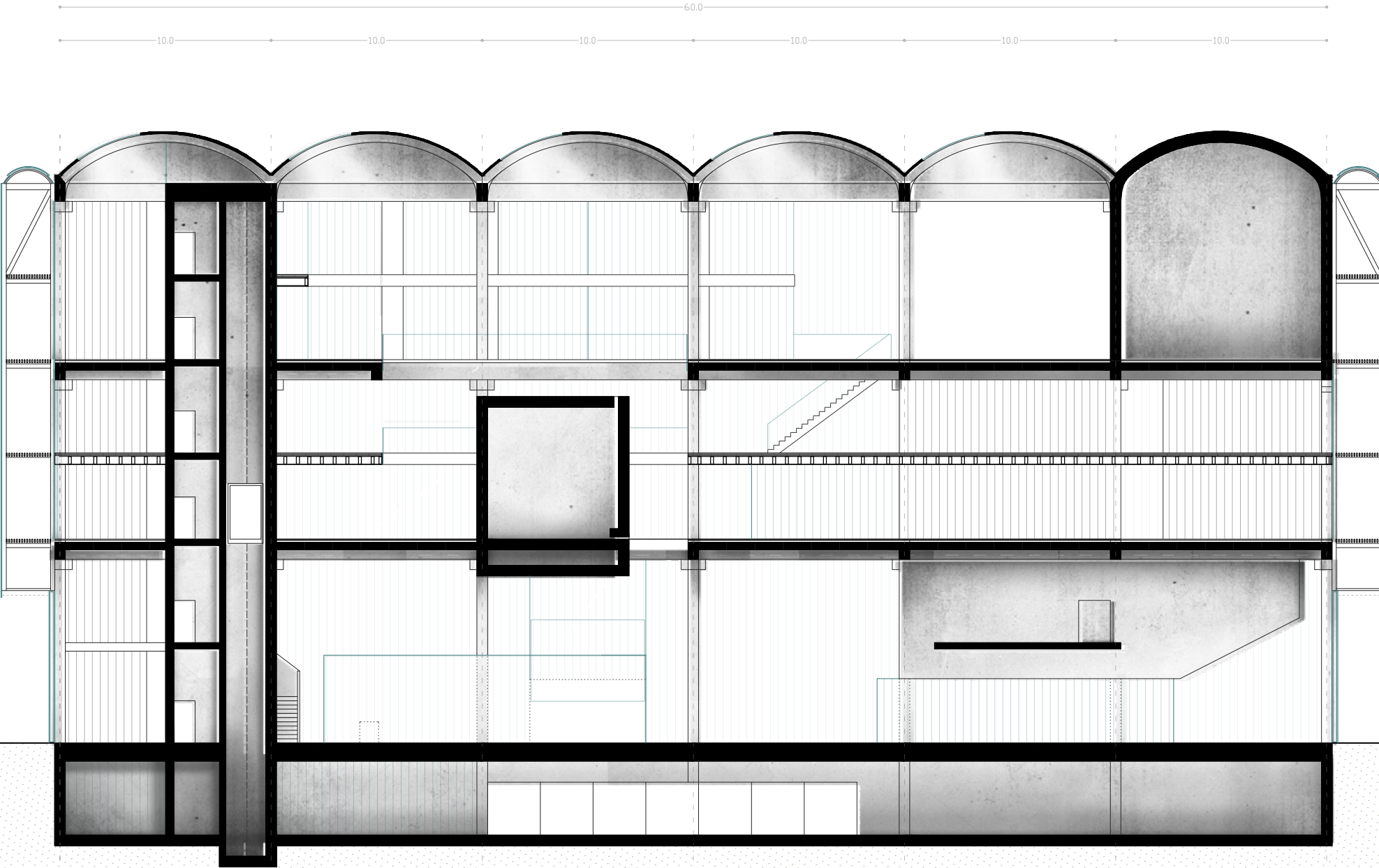
spatial transition around the crucial elements

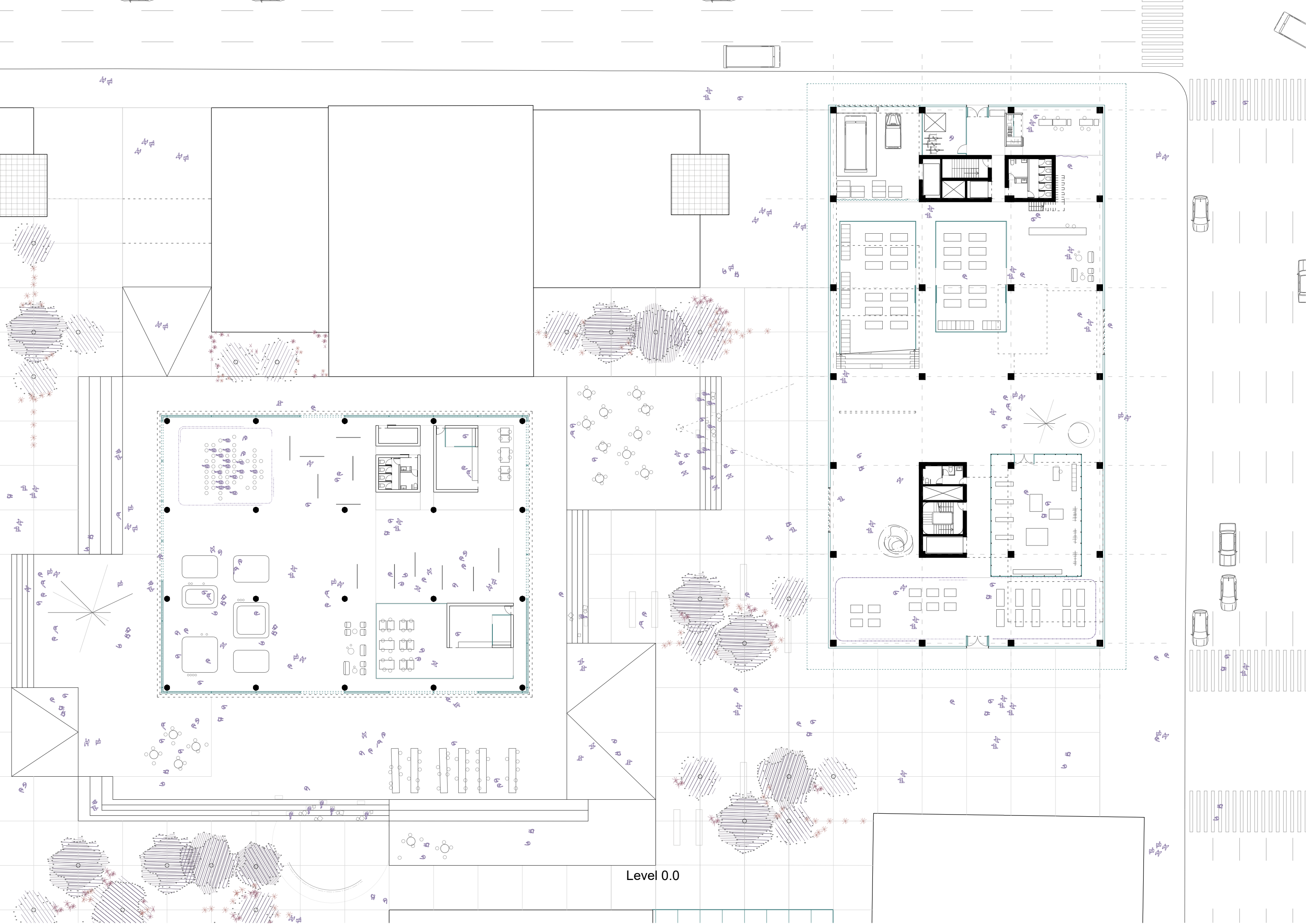


Structural system
expressing presence also in the surrounding spaces

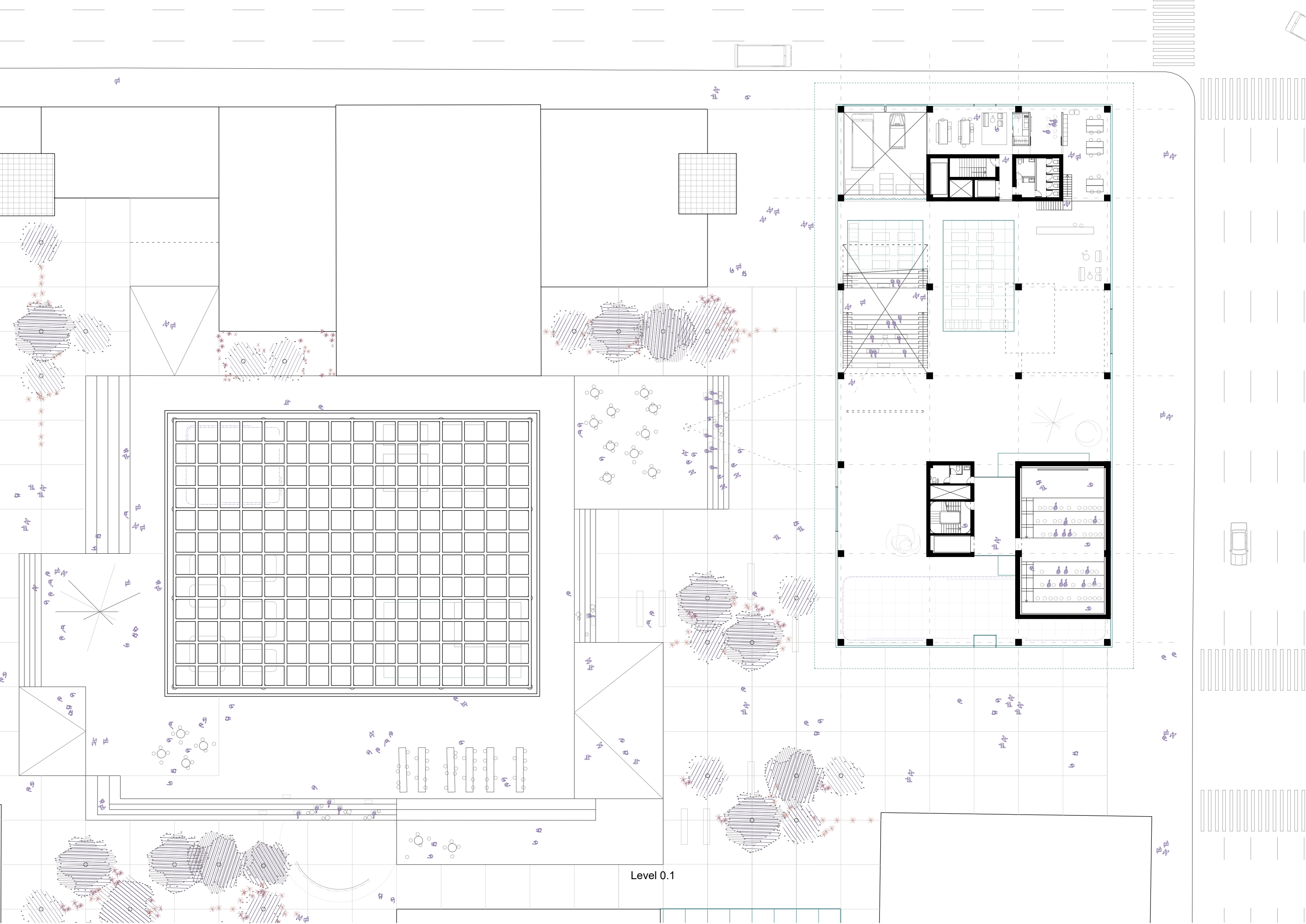


Section

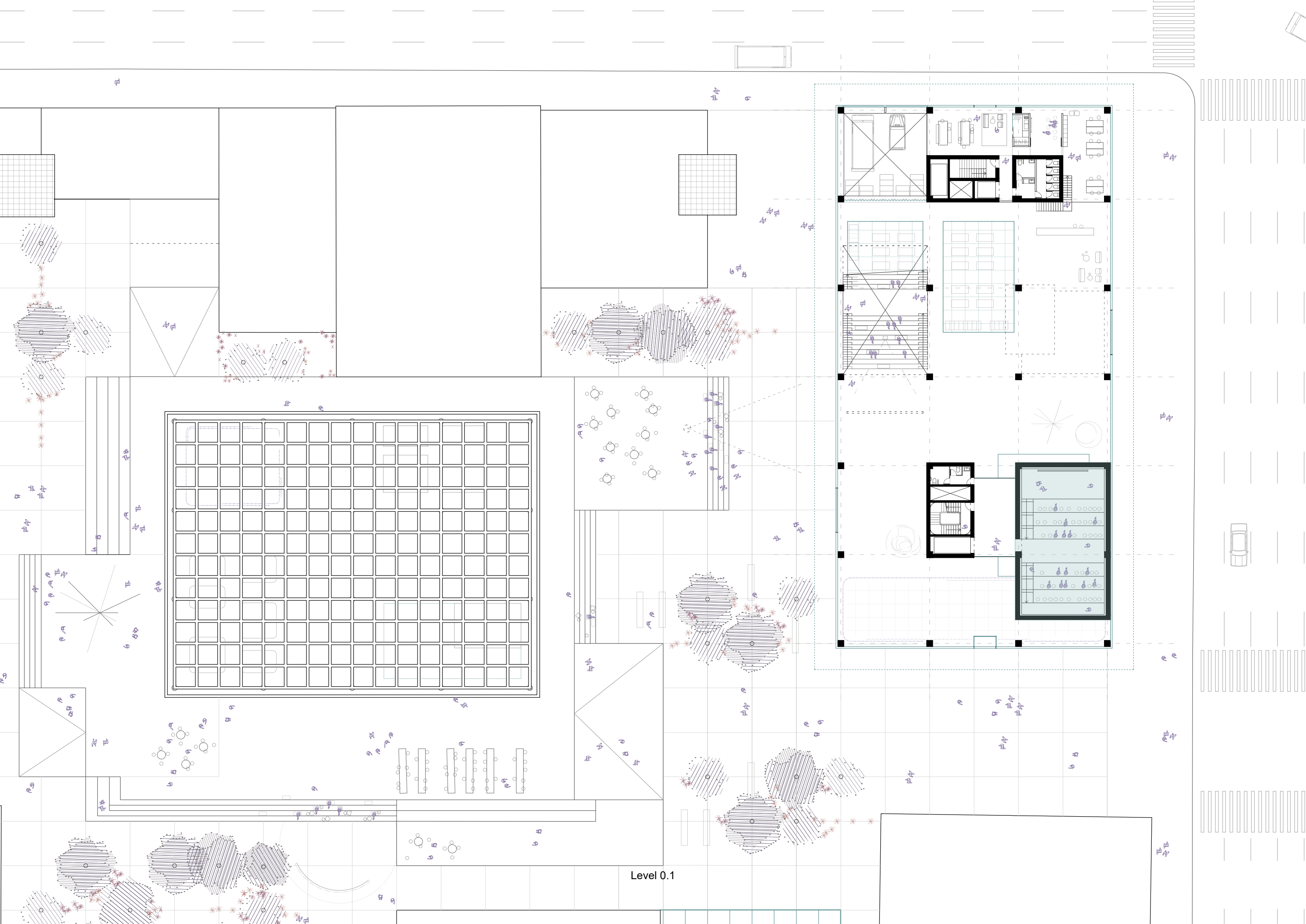




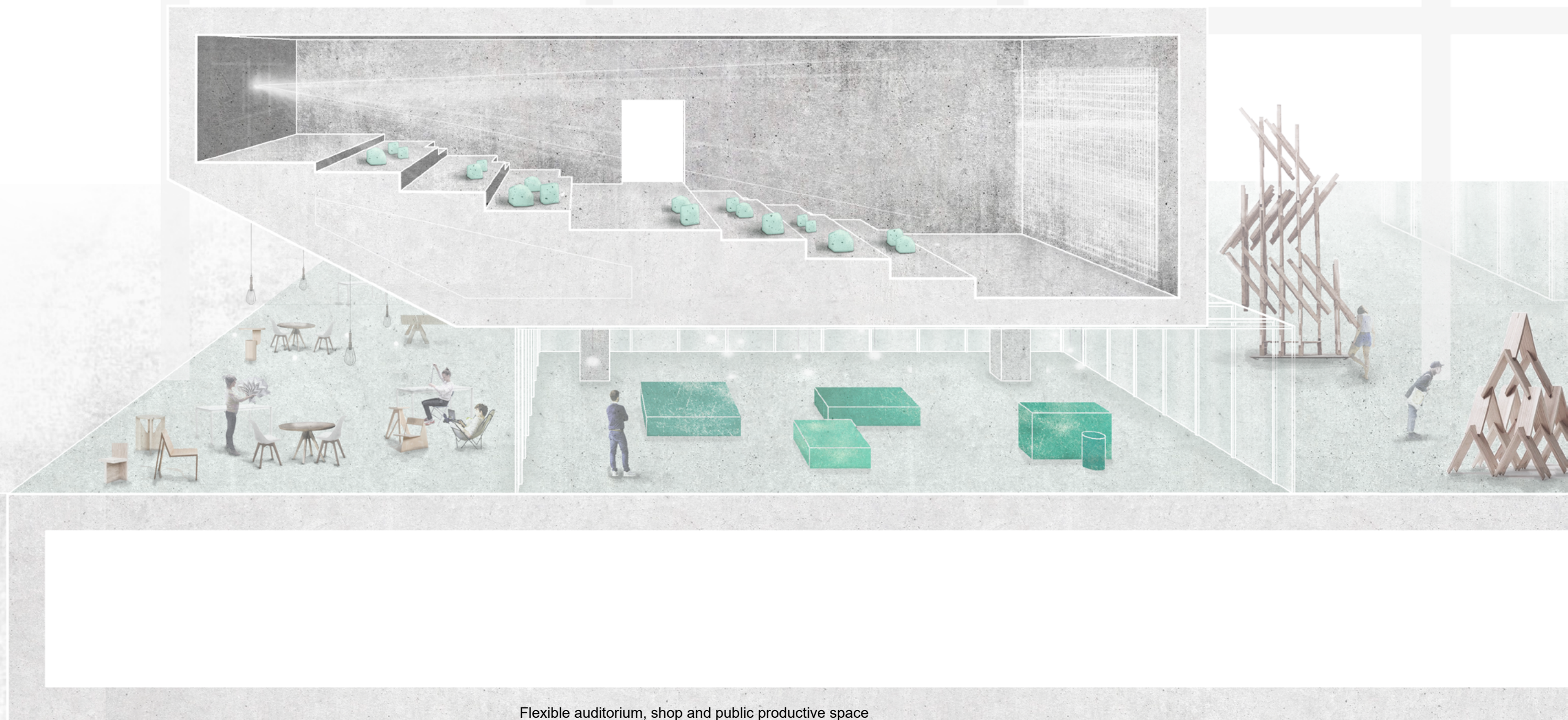
Level 0.0



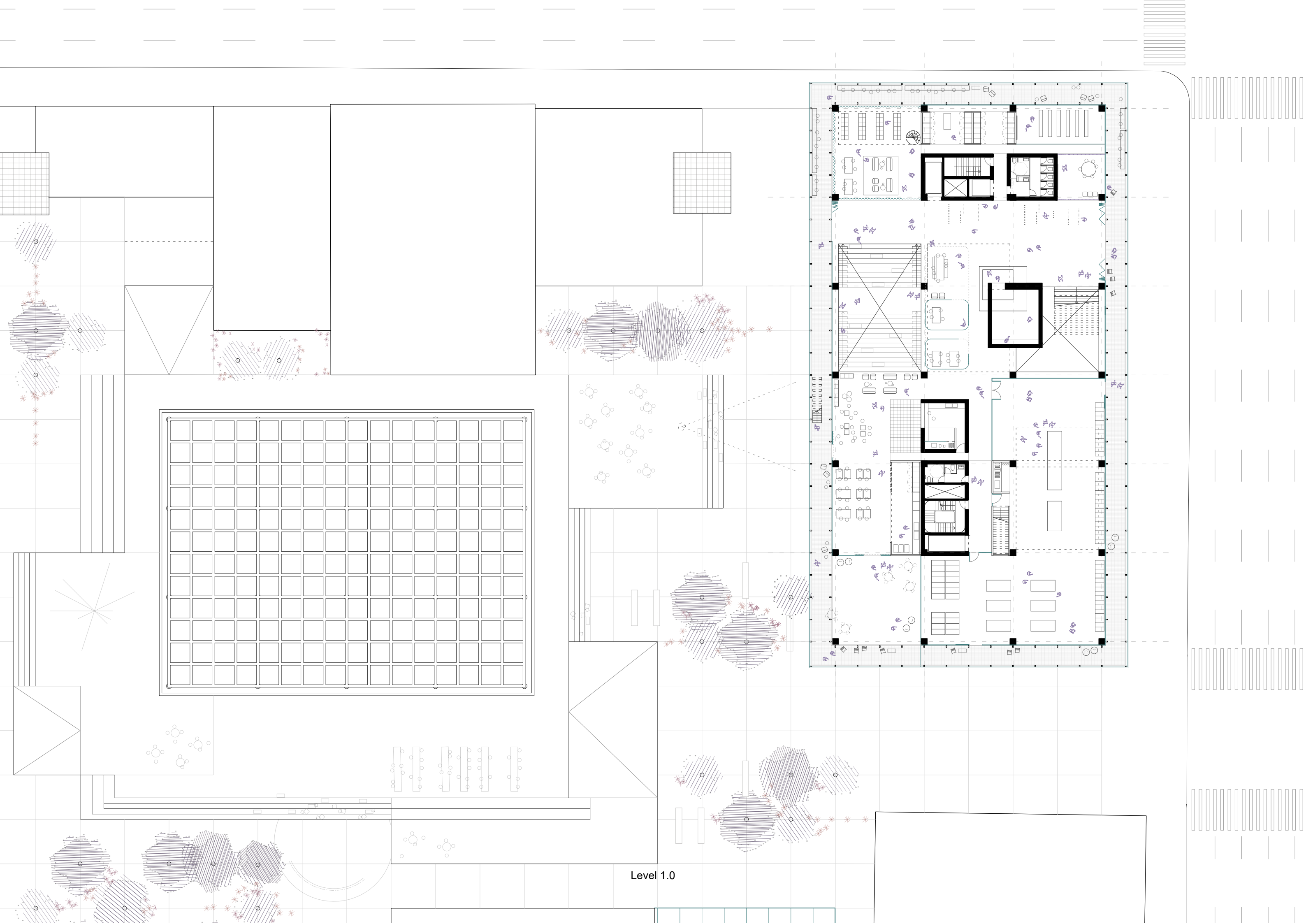
Level 0.1



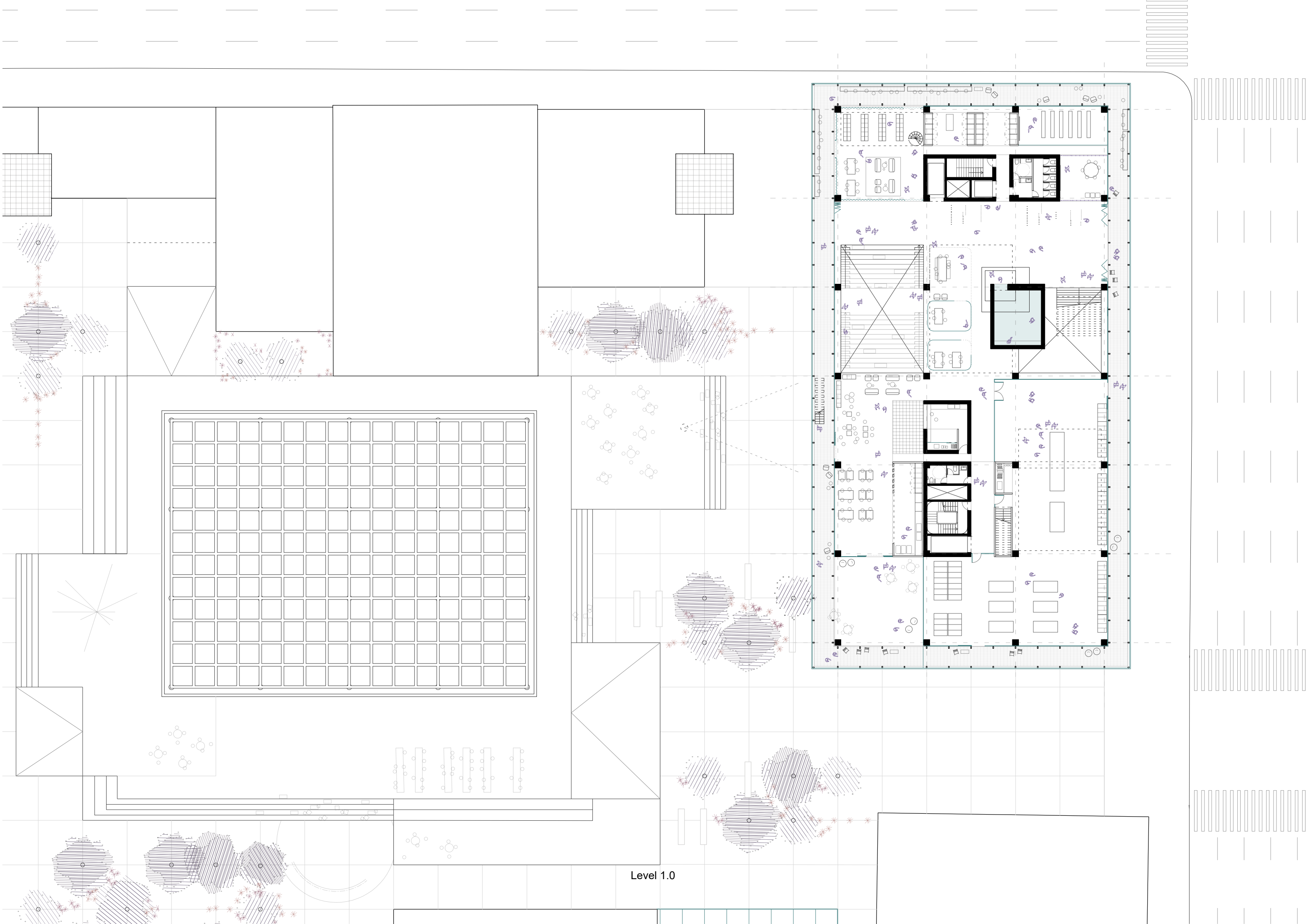
Level 0.1



Flexible auditorium, shop and public productive space



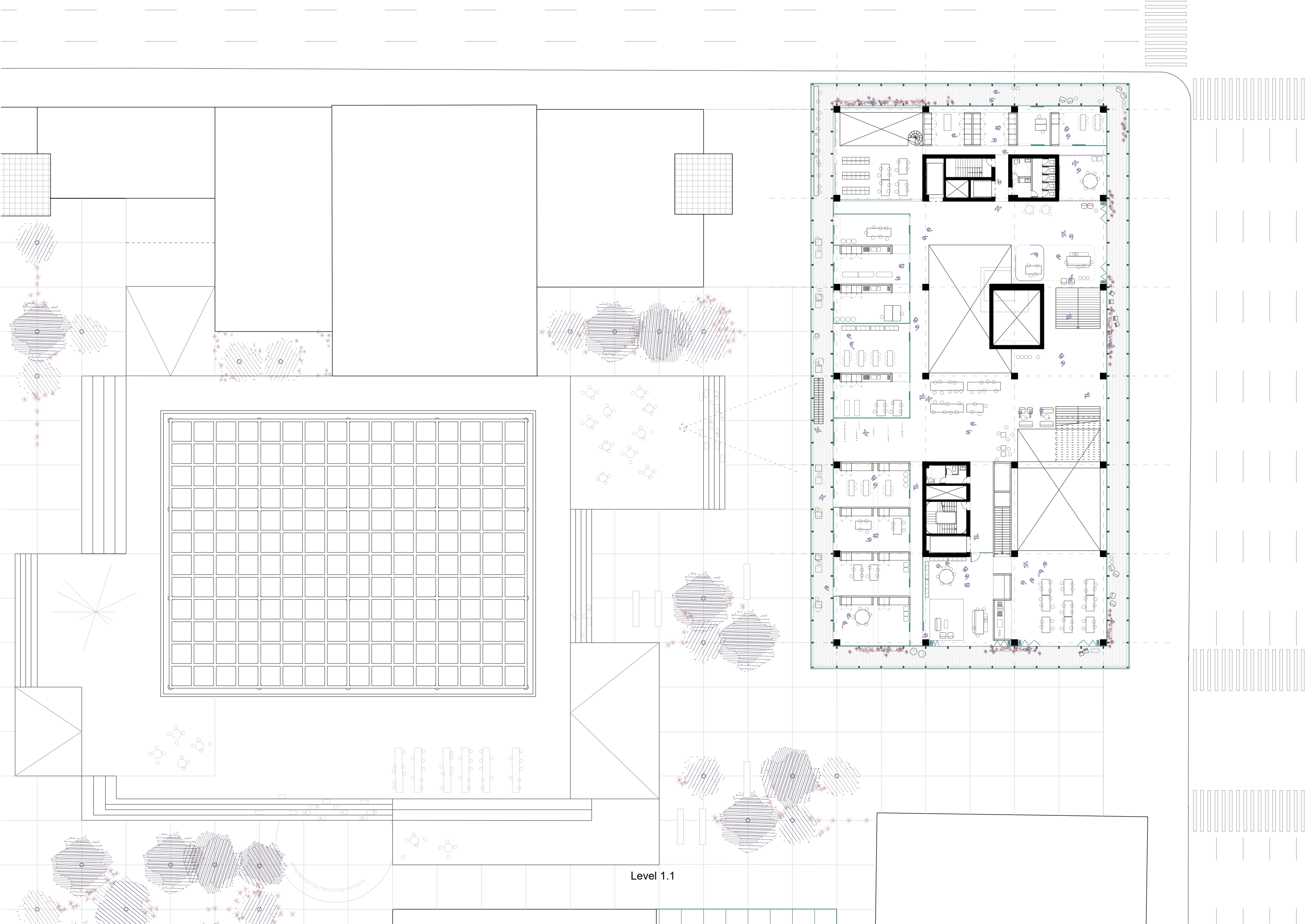
Level 1.0



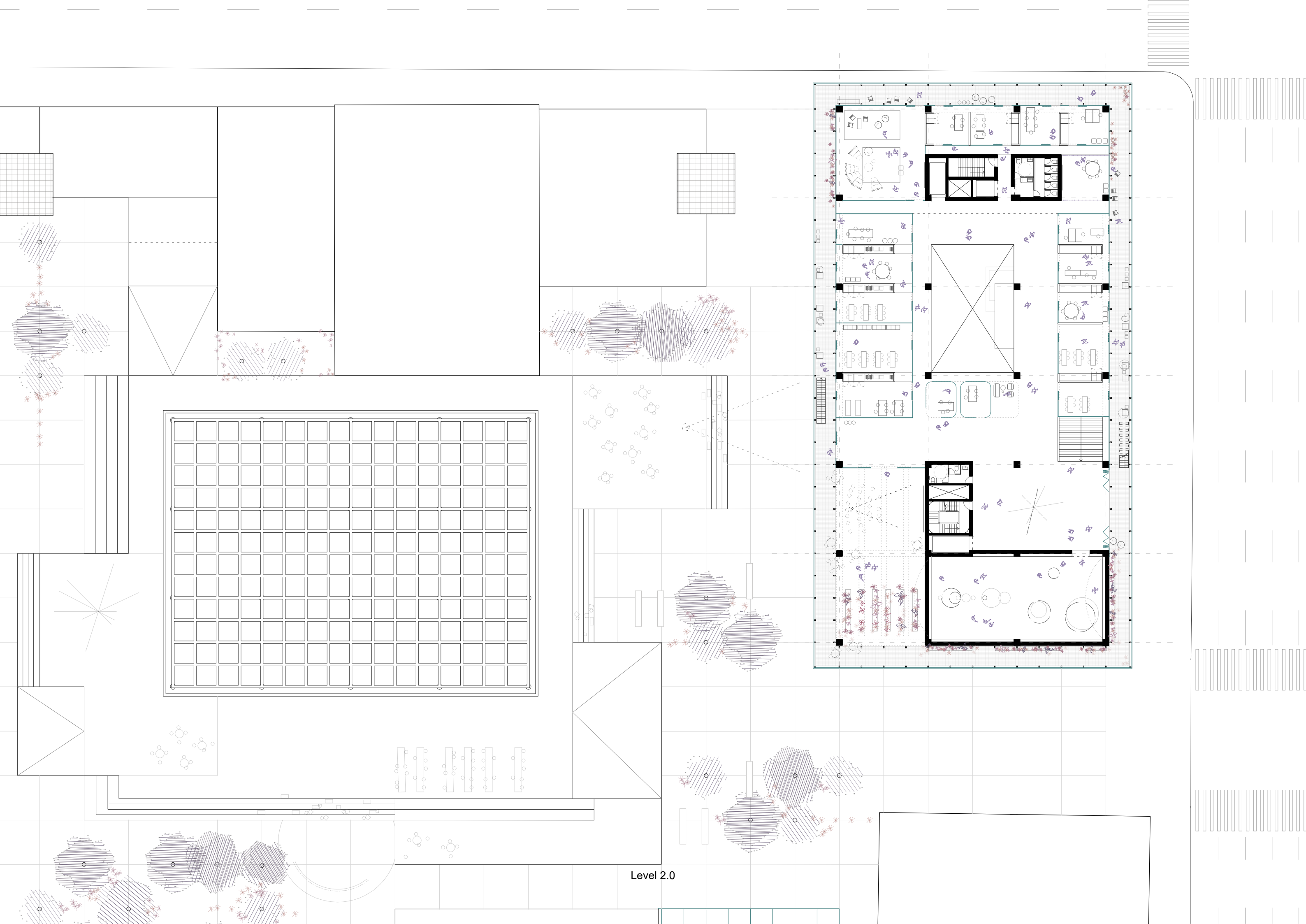
Level 1.0



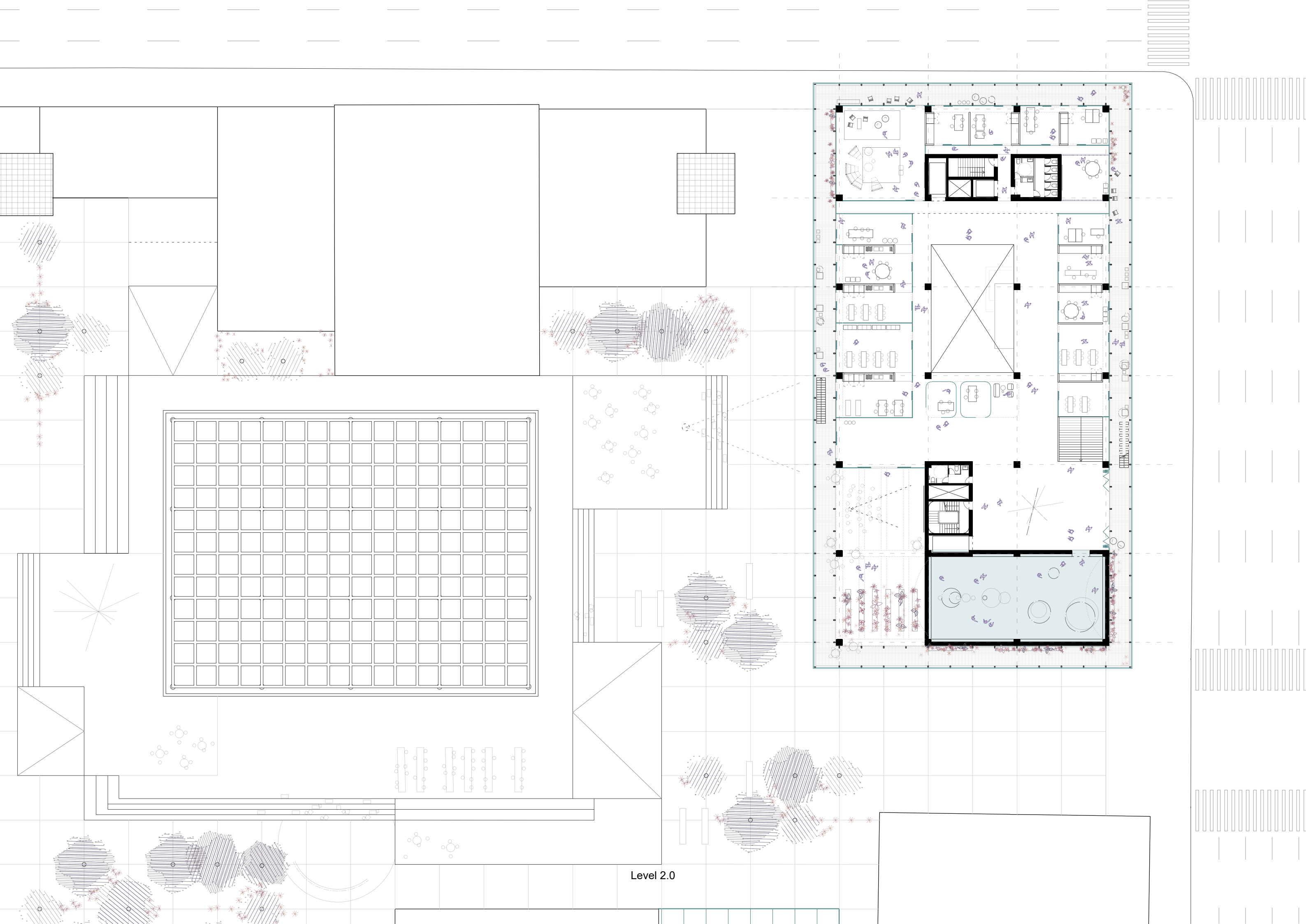
Space of exhibition - promotion -



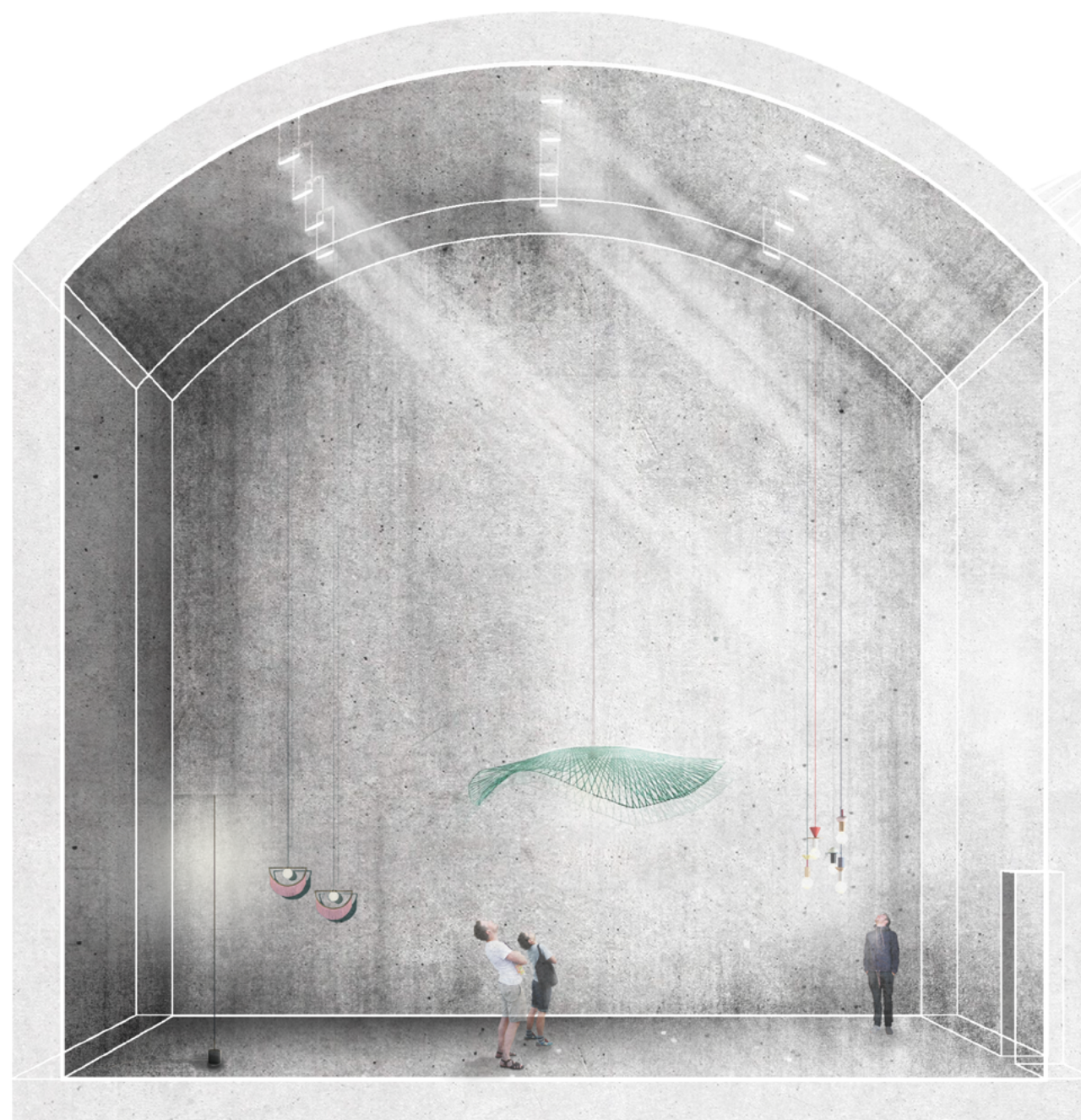
Level 1.1



Level 2.0



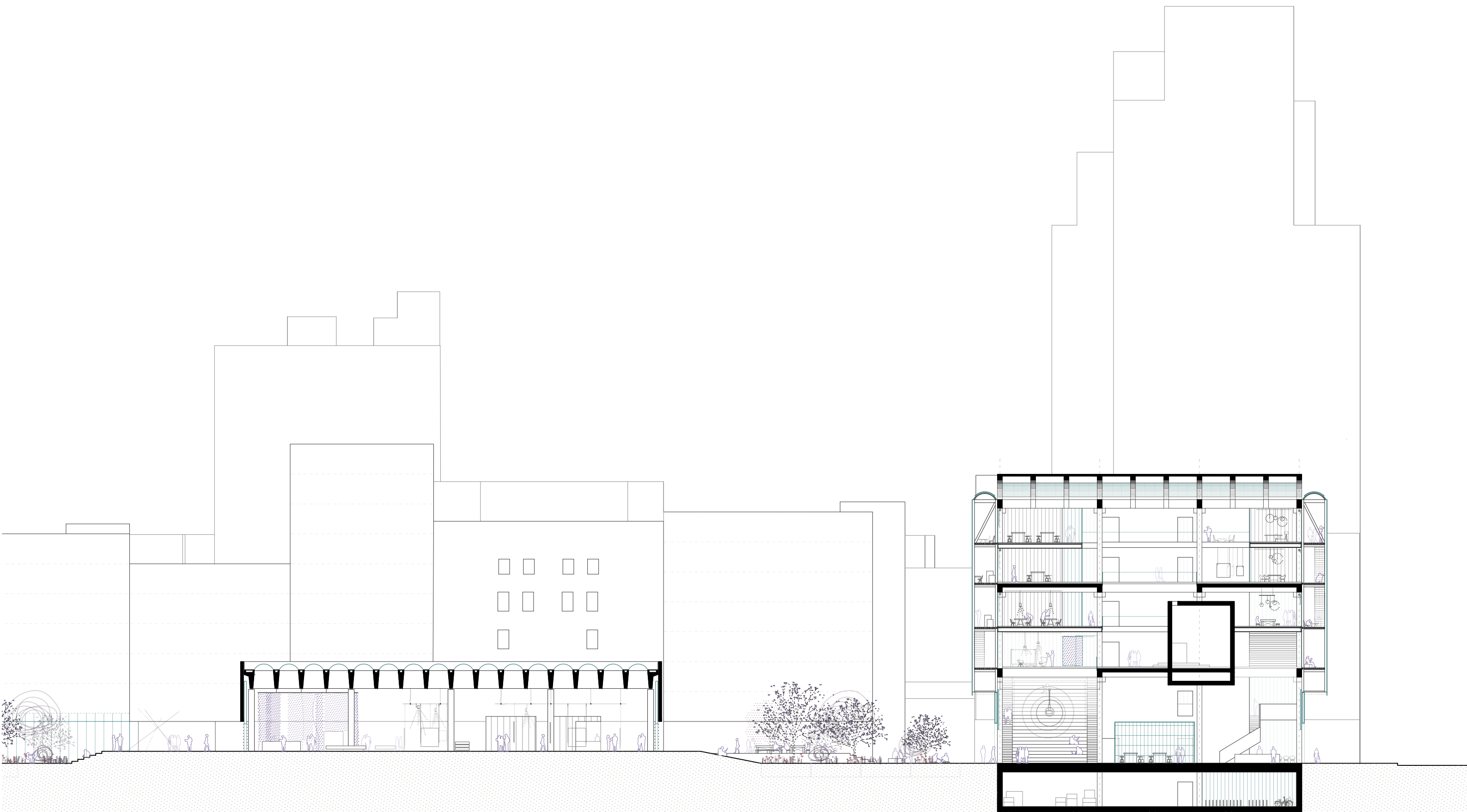
Level 2.0



Space of exhibition - promotion -



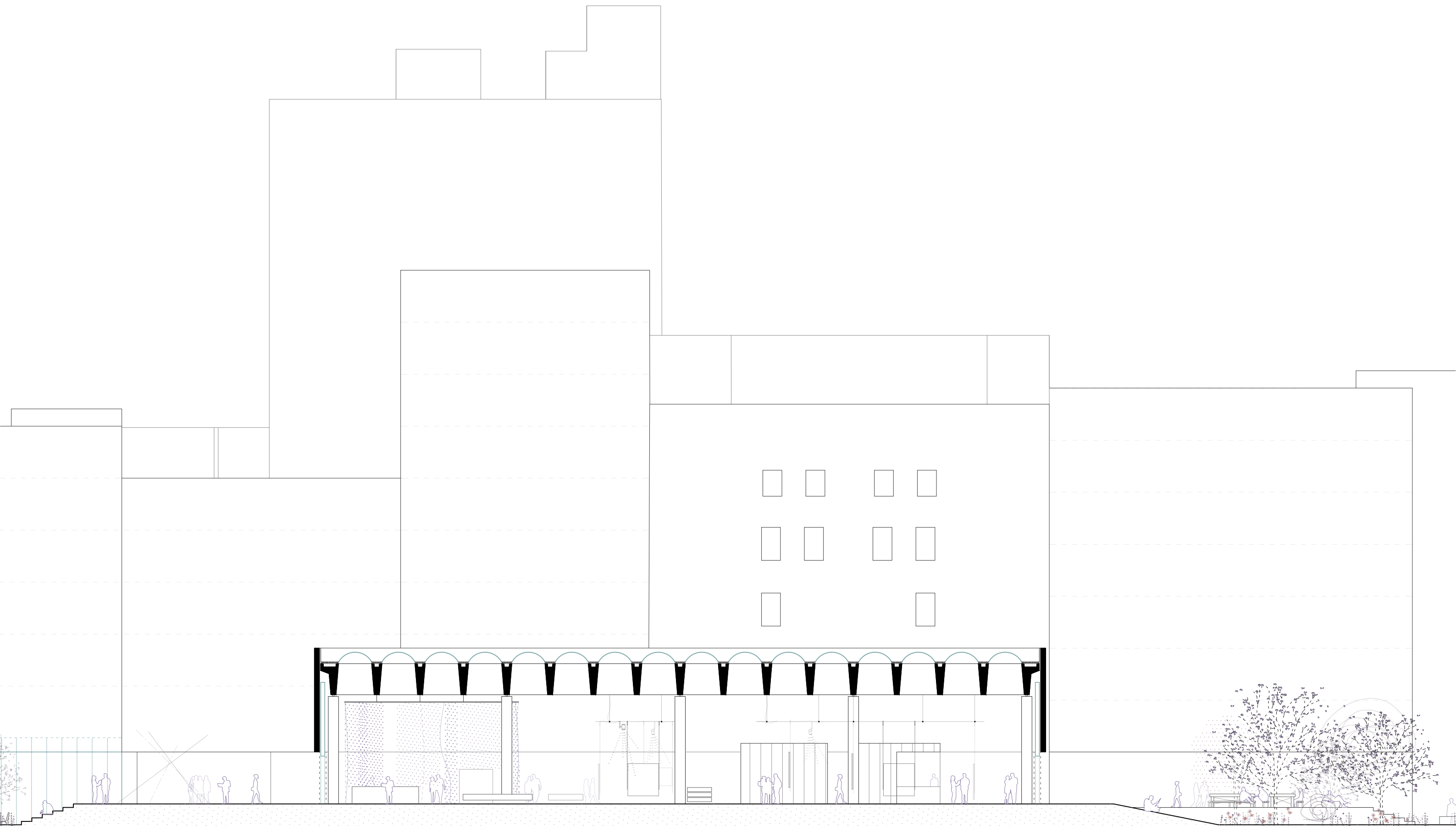
Basement



Section - the courtyard as element of connection

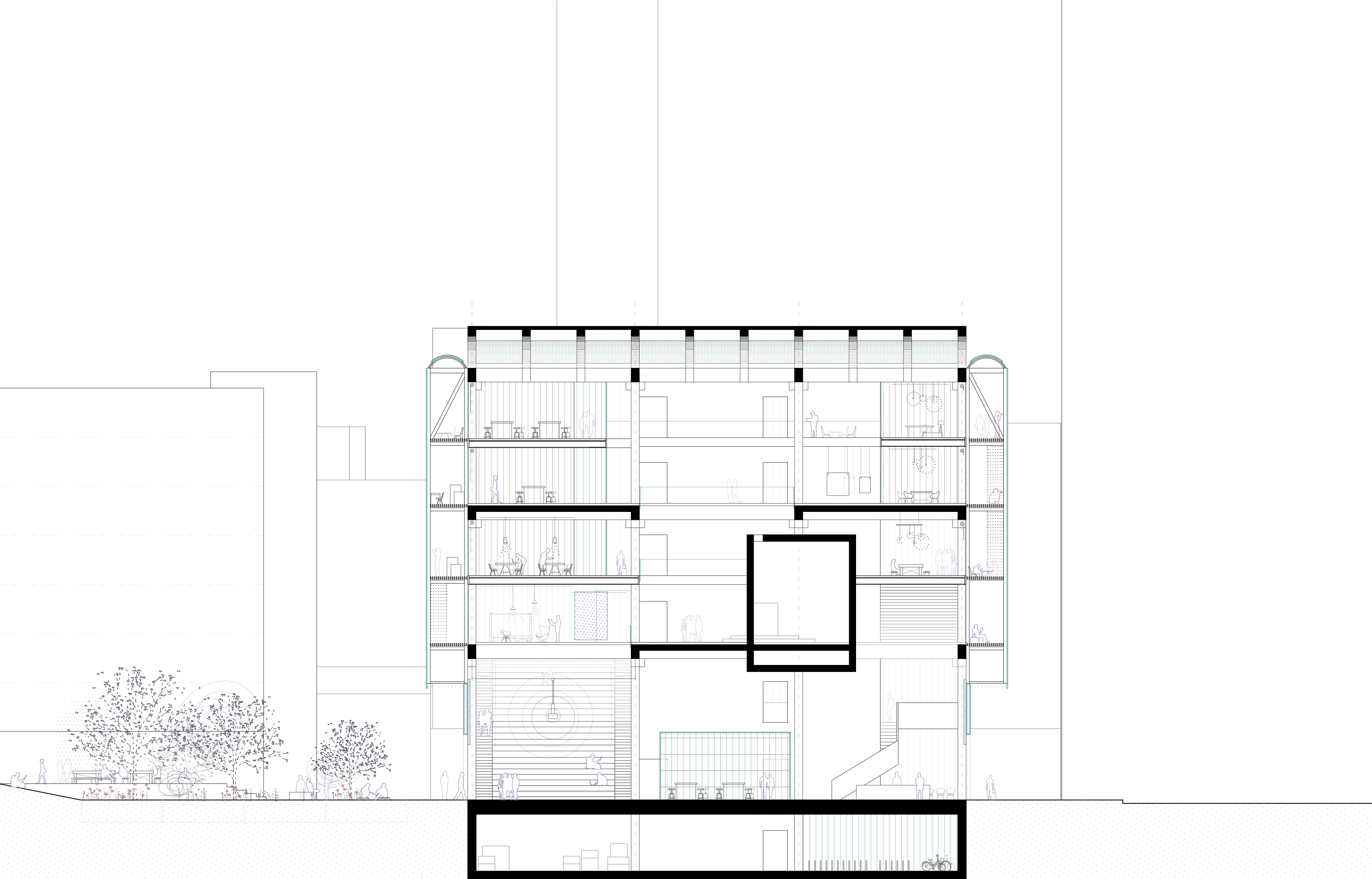


Central courtyard





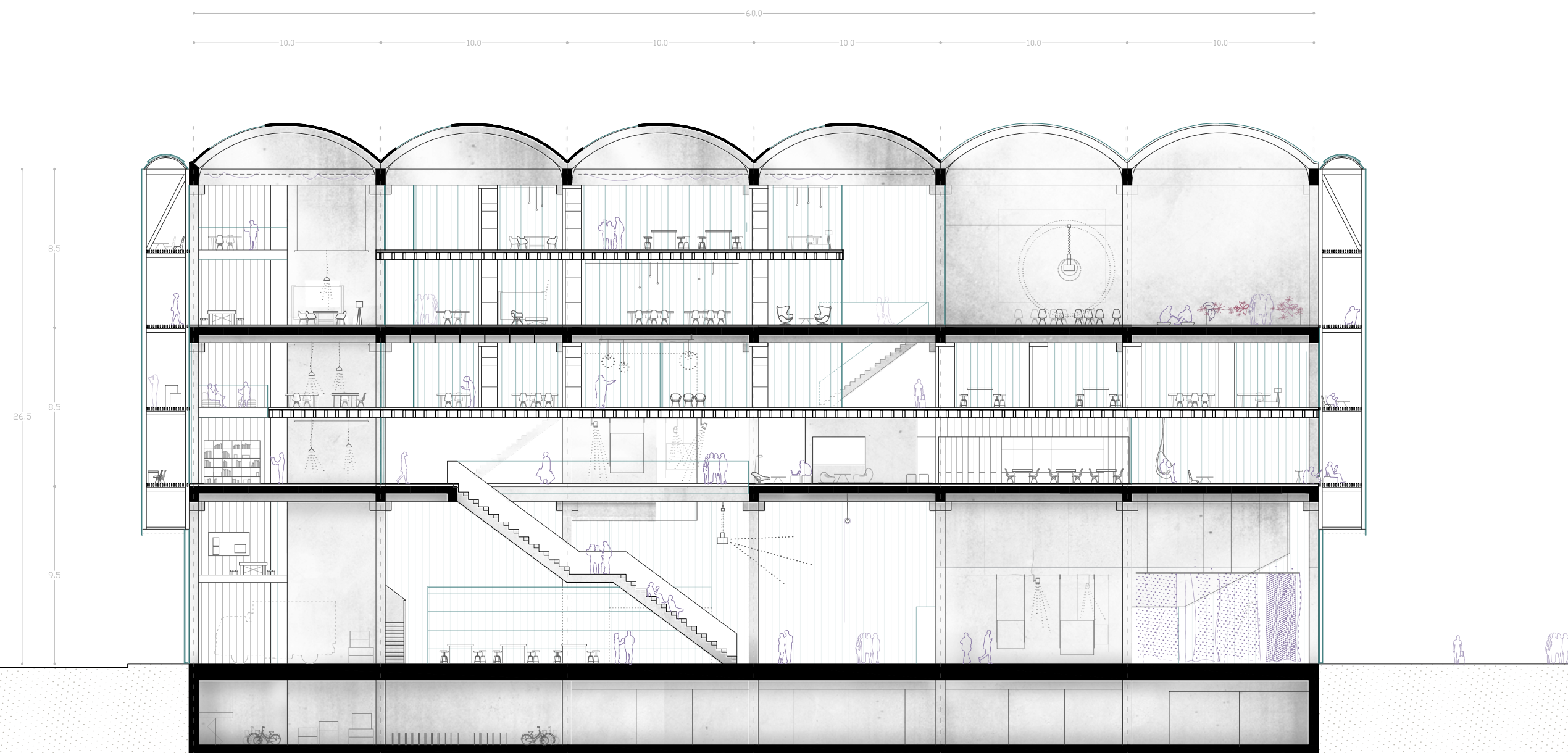
Central building - creating relations with the City -



Longitudinal section



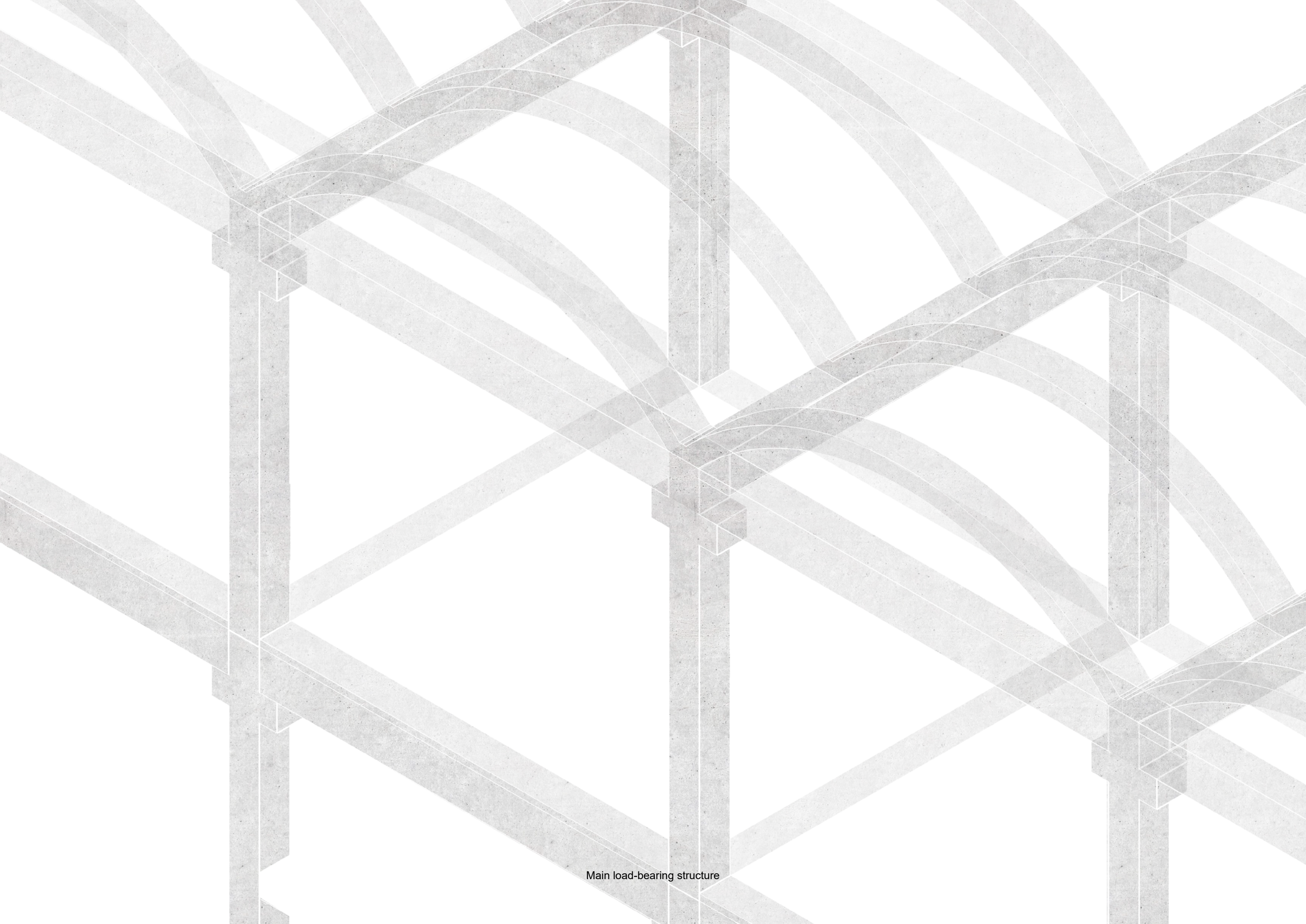
Entrance hall



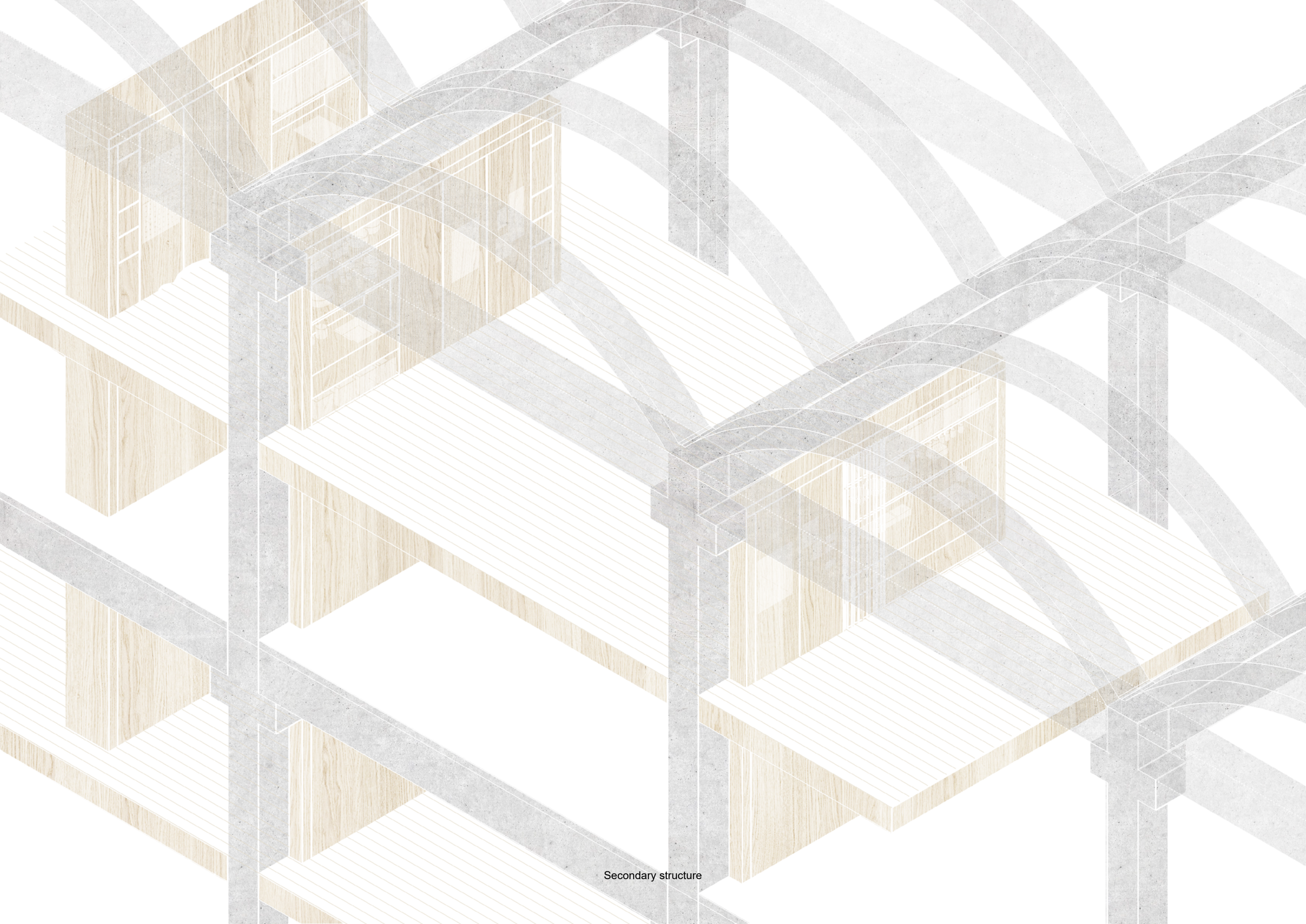
Longitudinal section



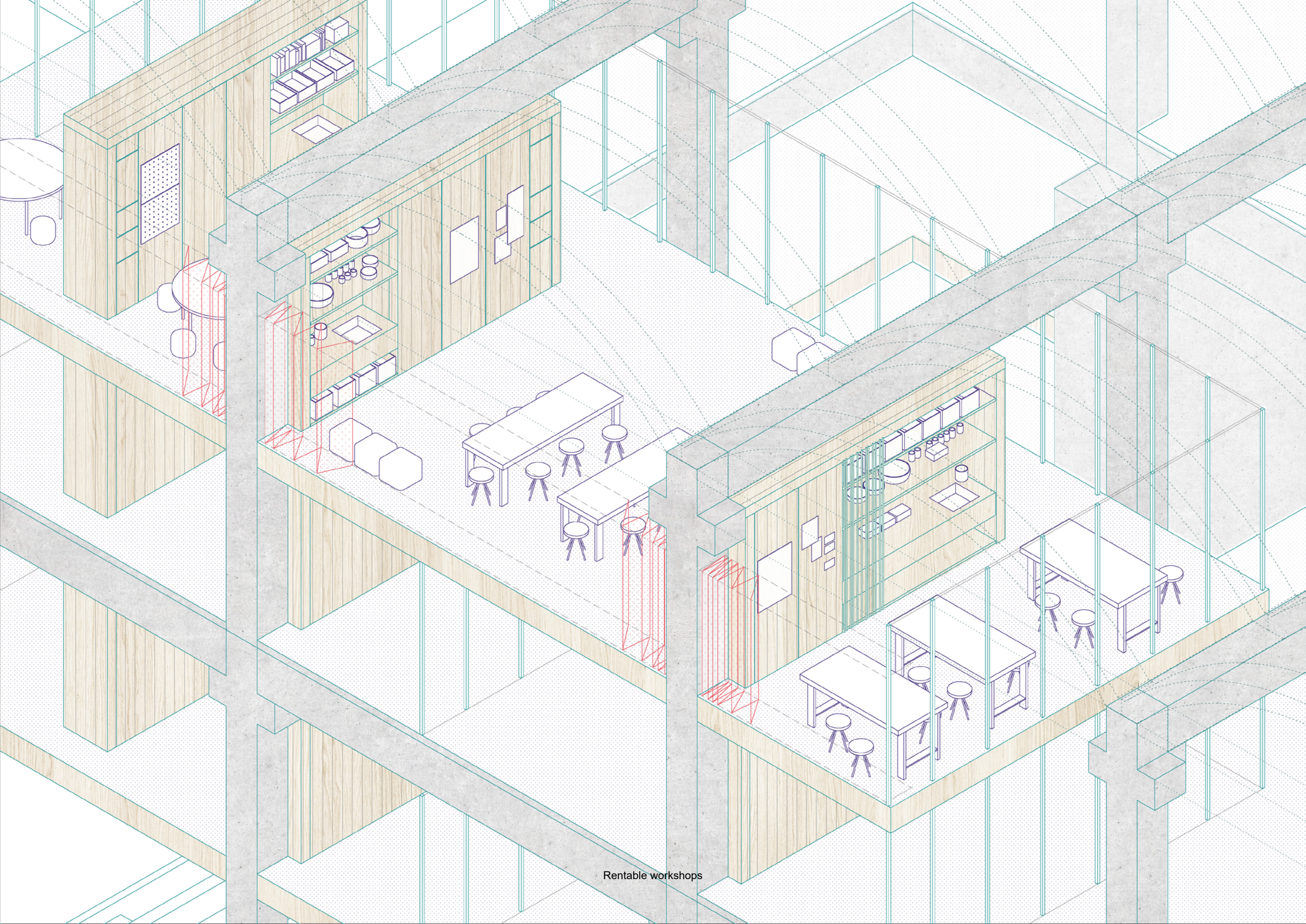
Top floor - workshops



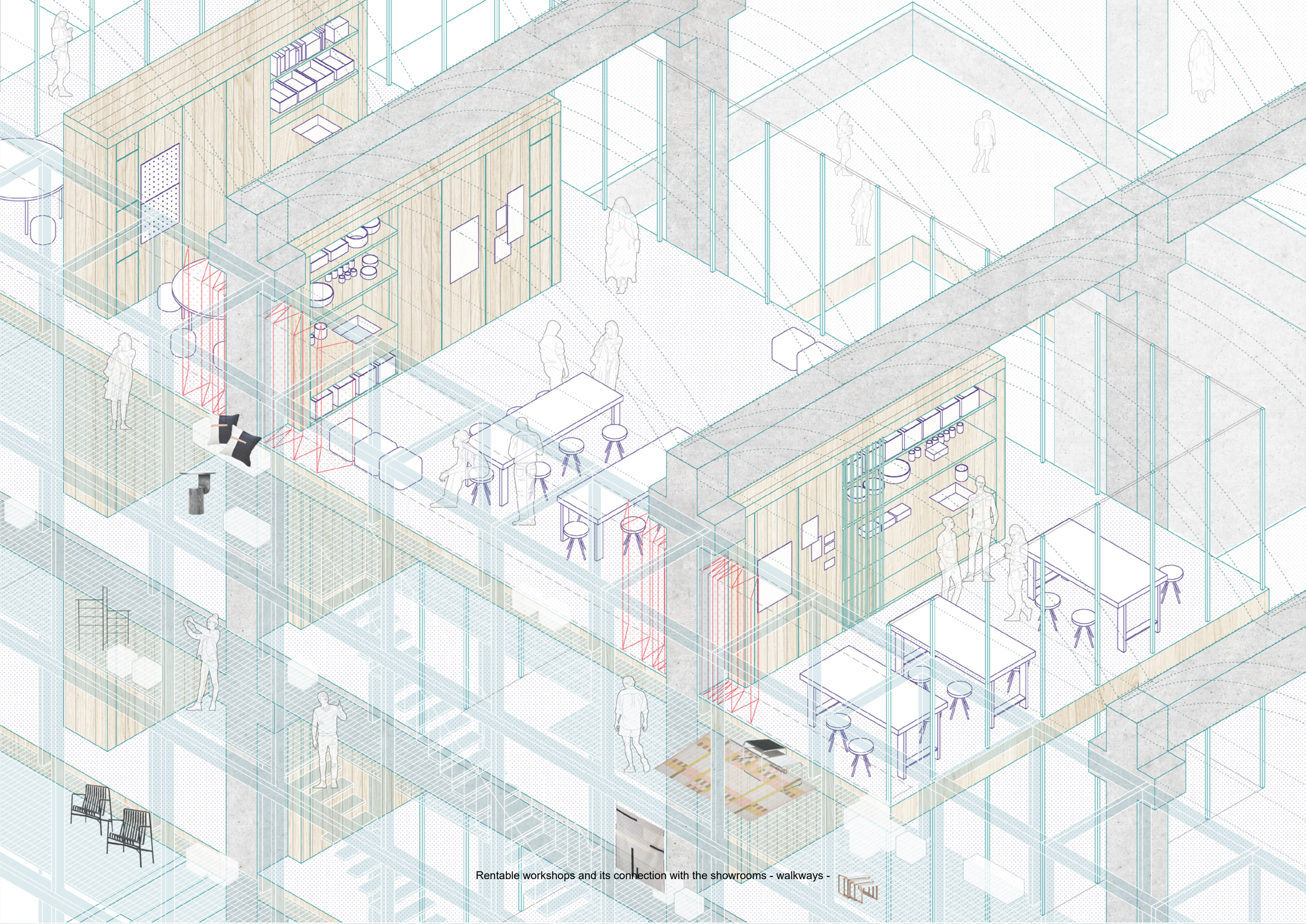
Main load-bearing structure



Secondary structure



Rentable workshops



Rentable workshops and its connection with the showrooms - walkways -

Building Technology

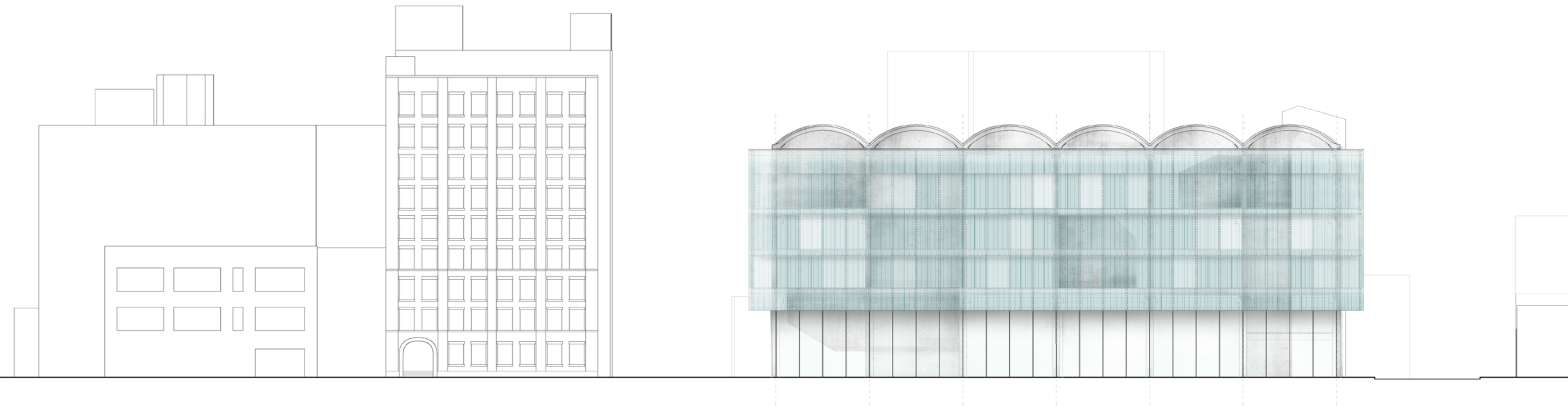
definition

facade

expression to the public environment

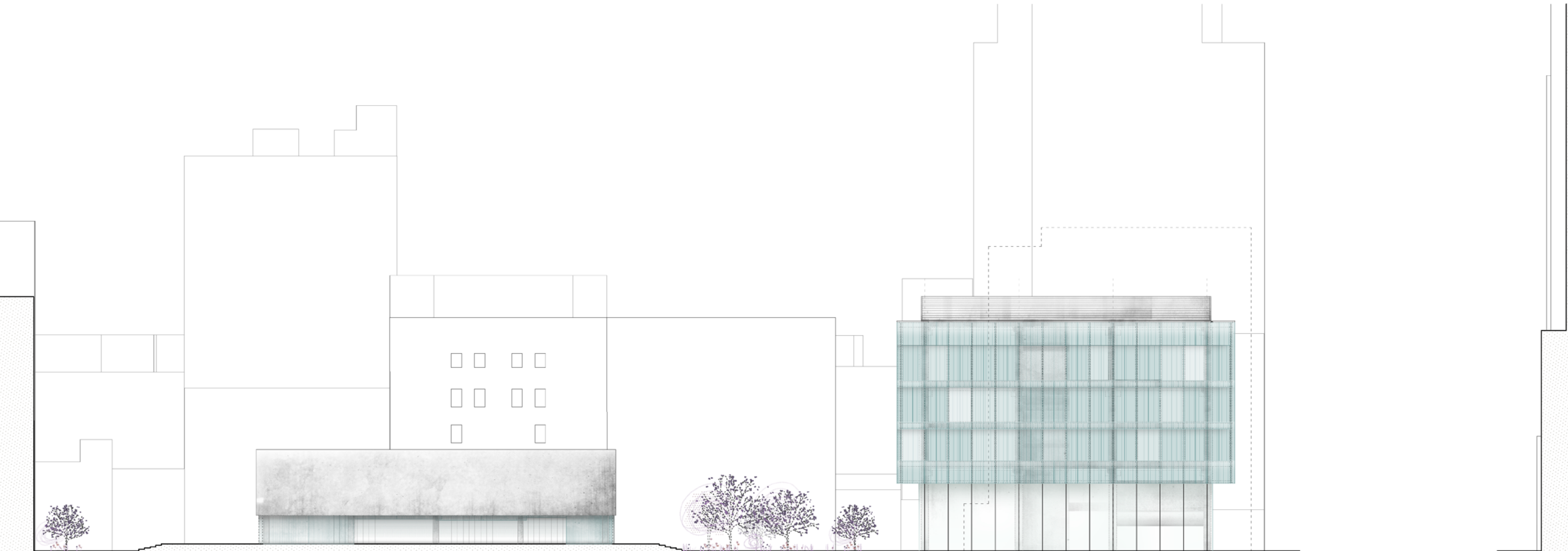
Elevation

urban setting



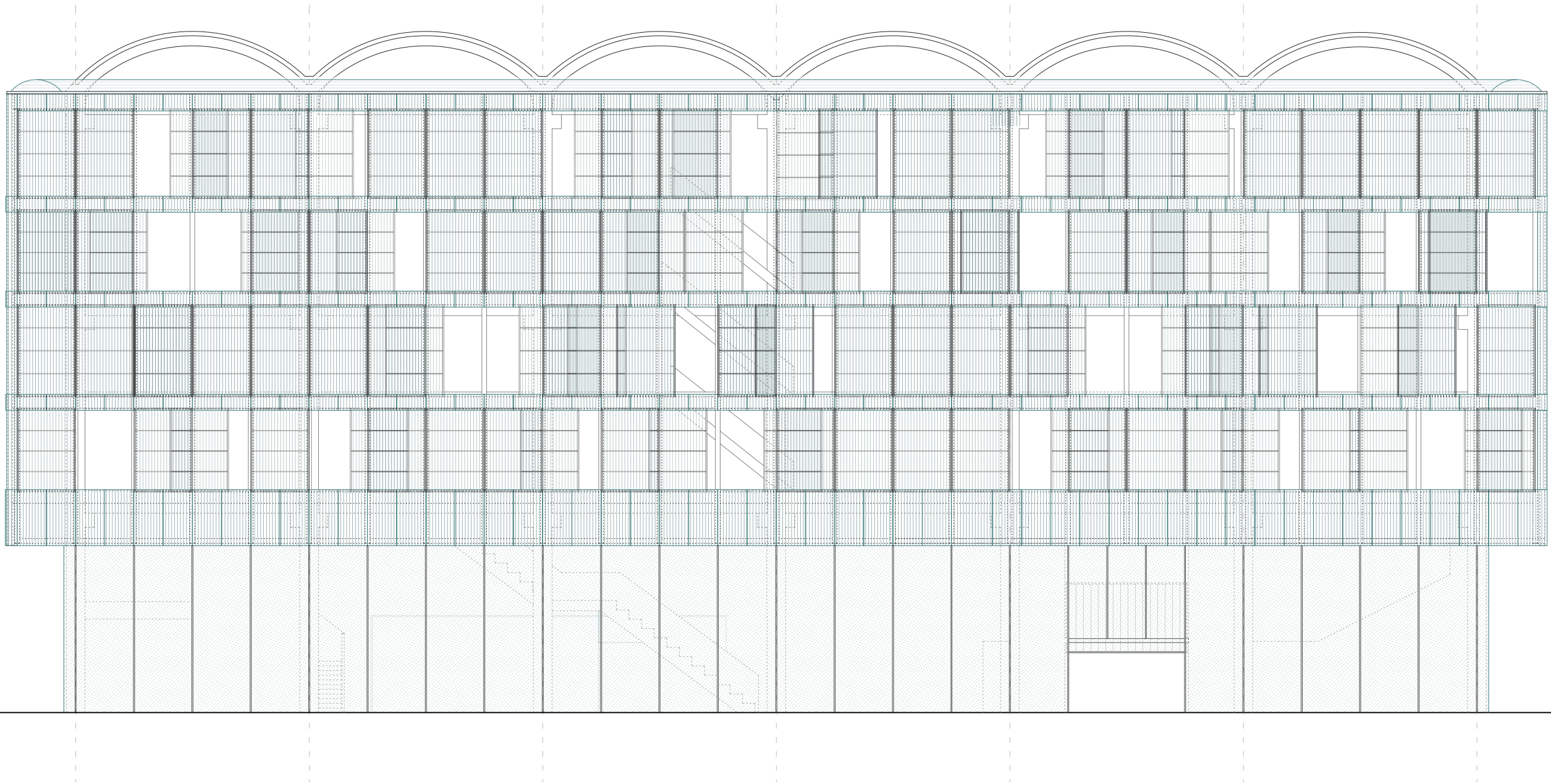
Elevation

urban setting



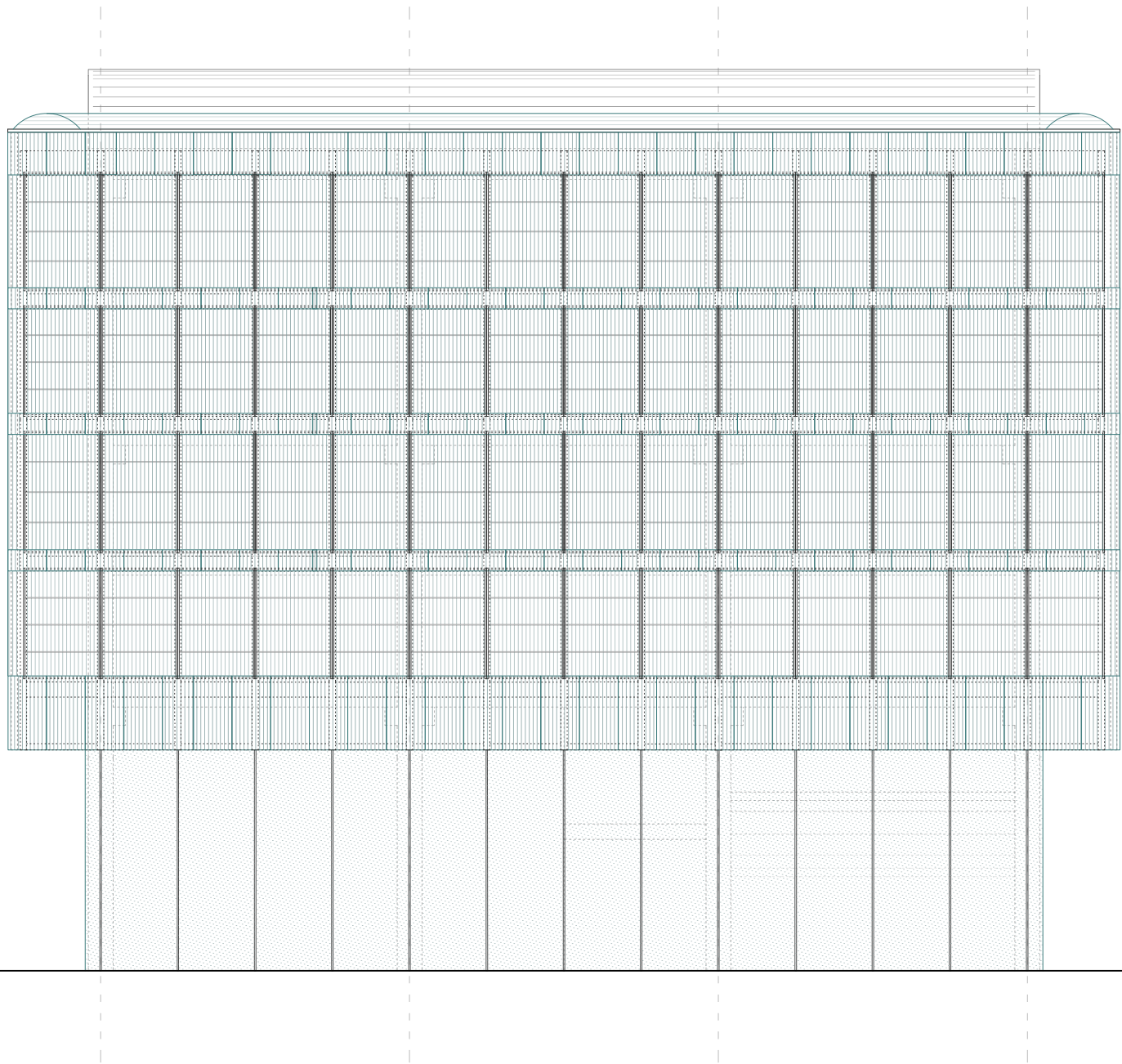
Elevation

system of facade

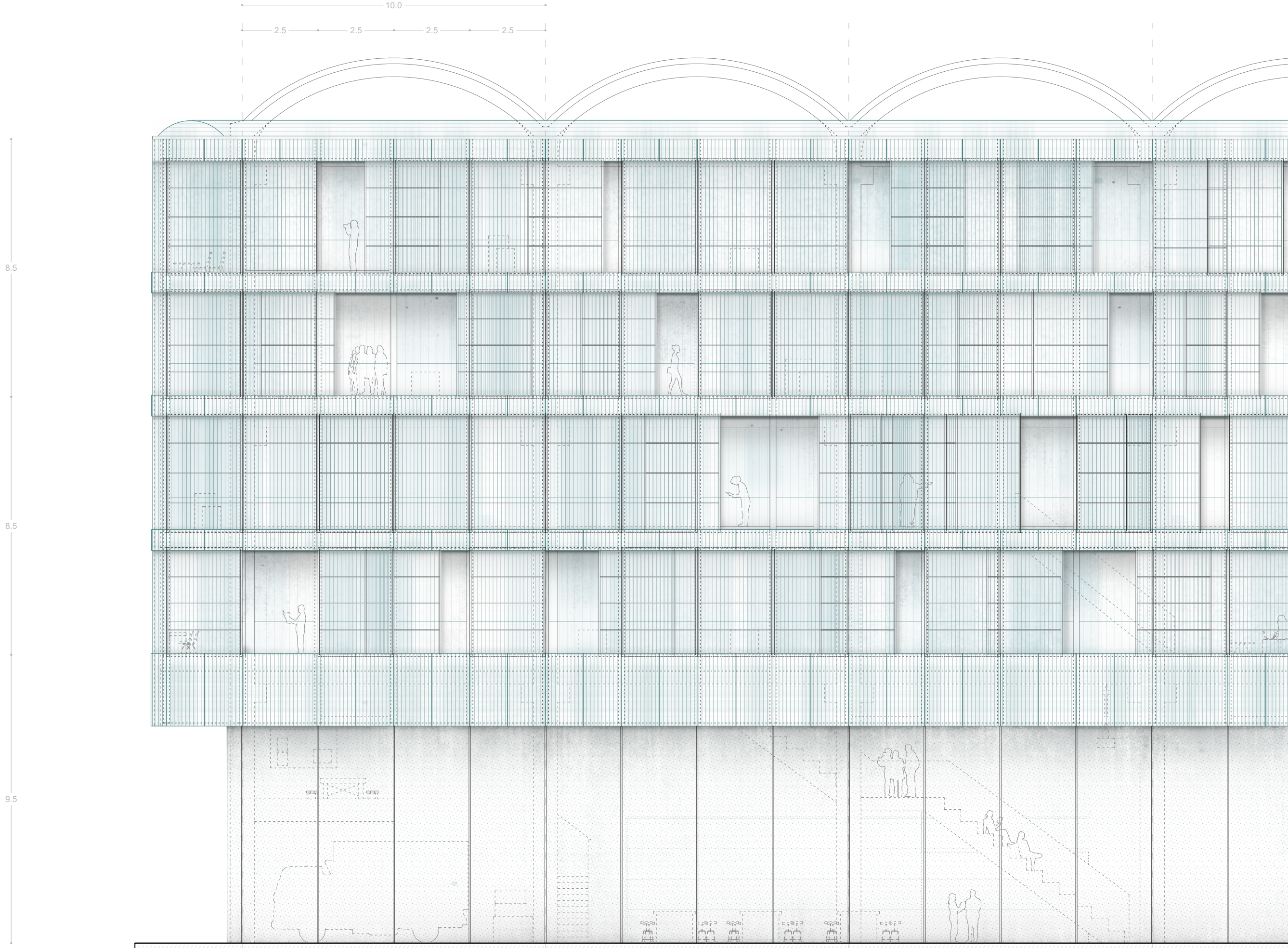


Elevation

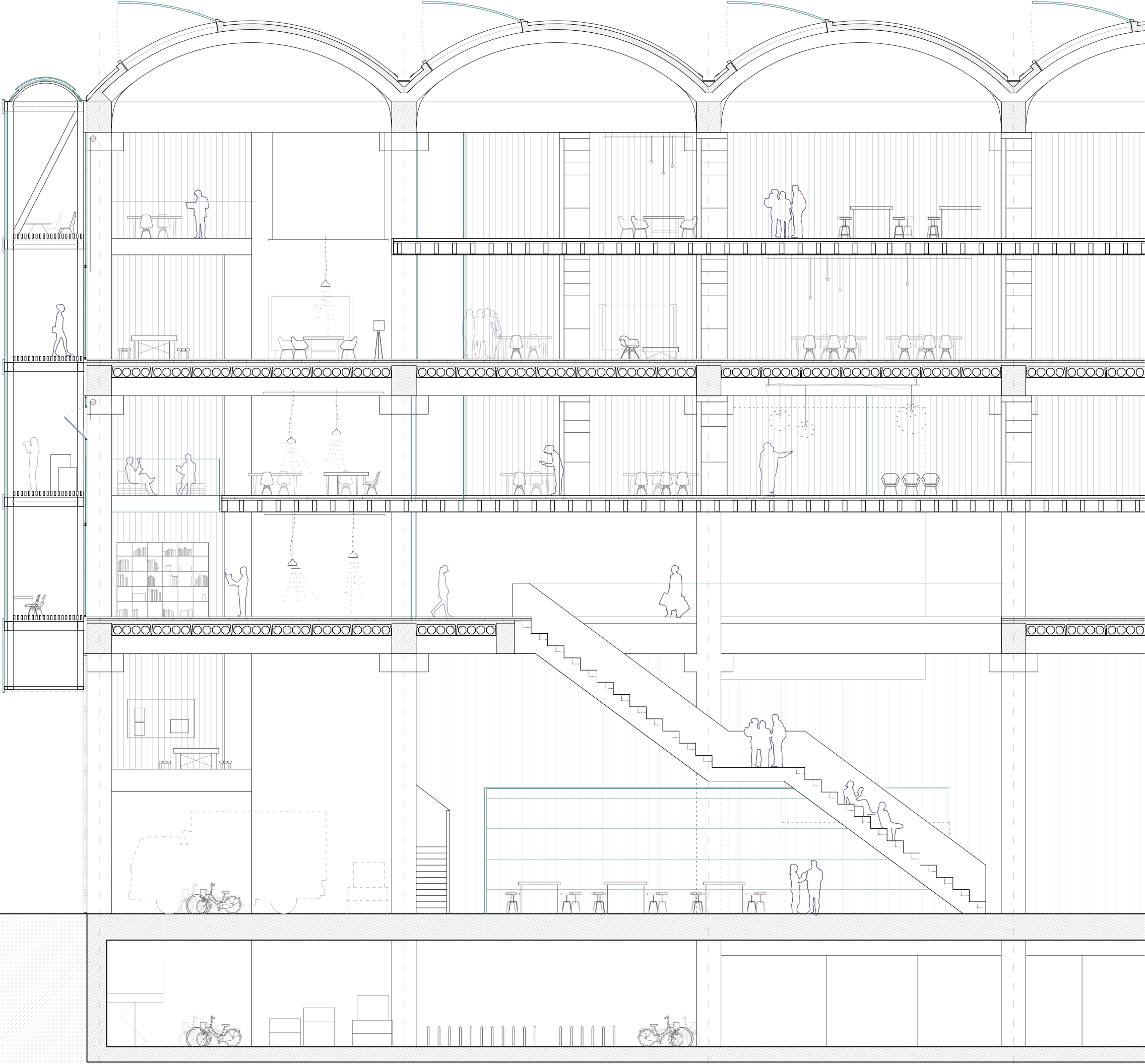
system of facade



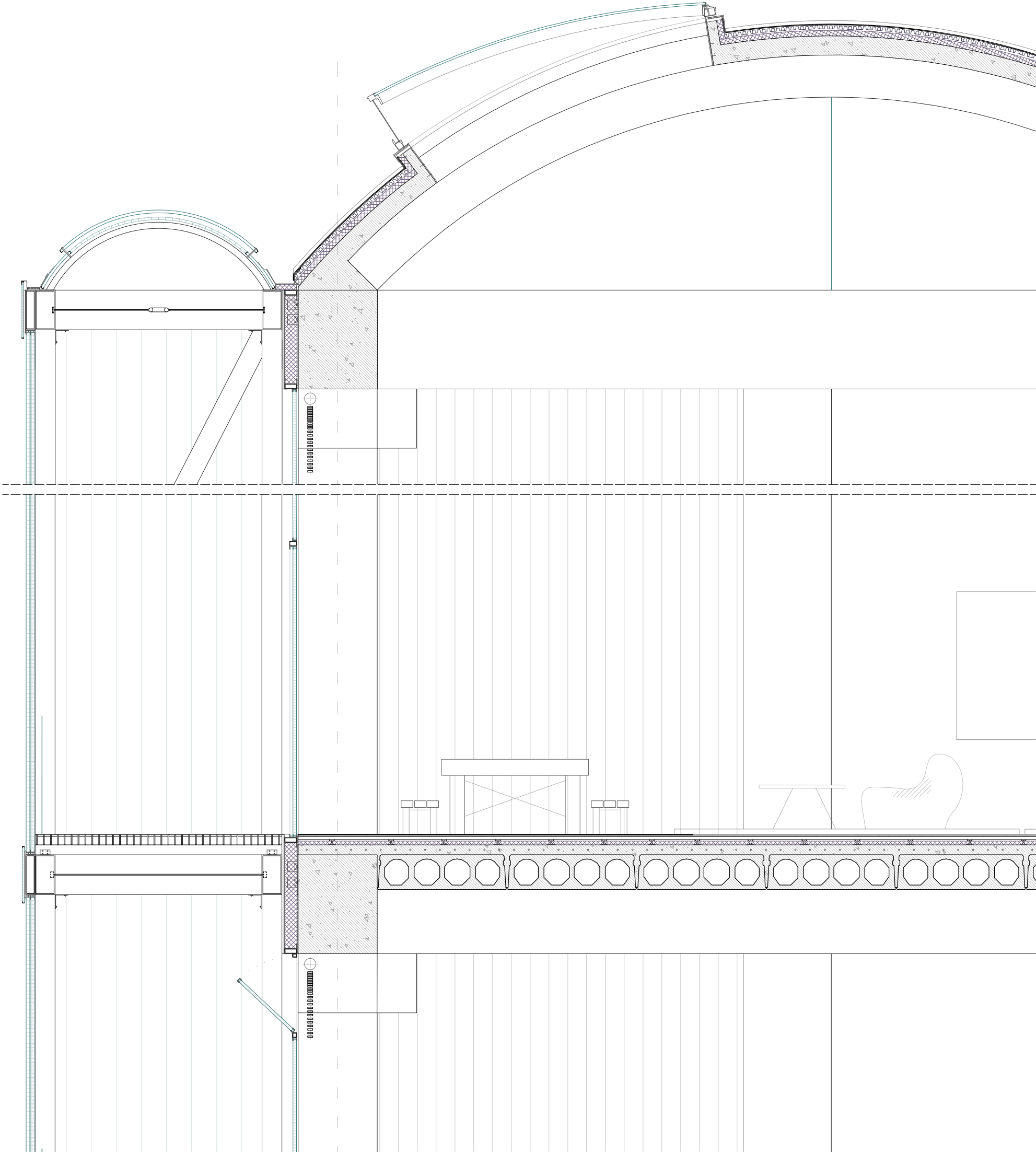
Elevation



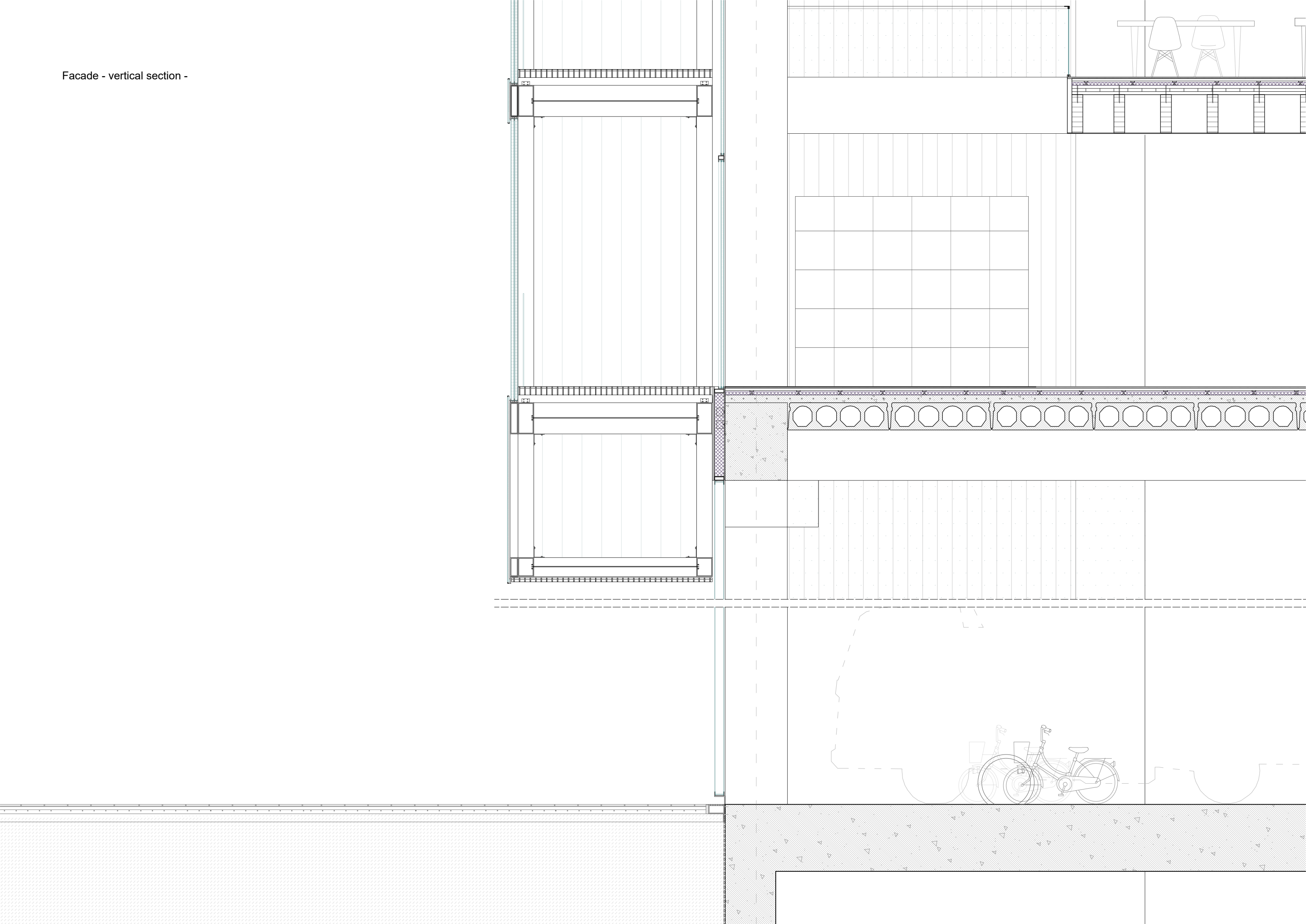
Section



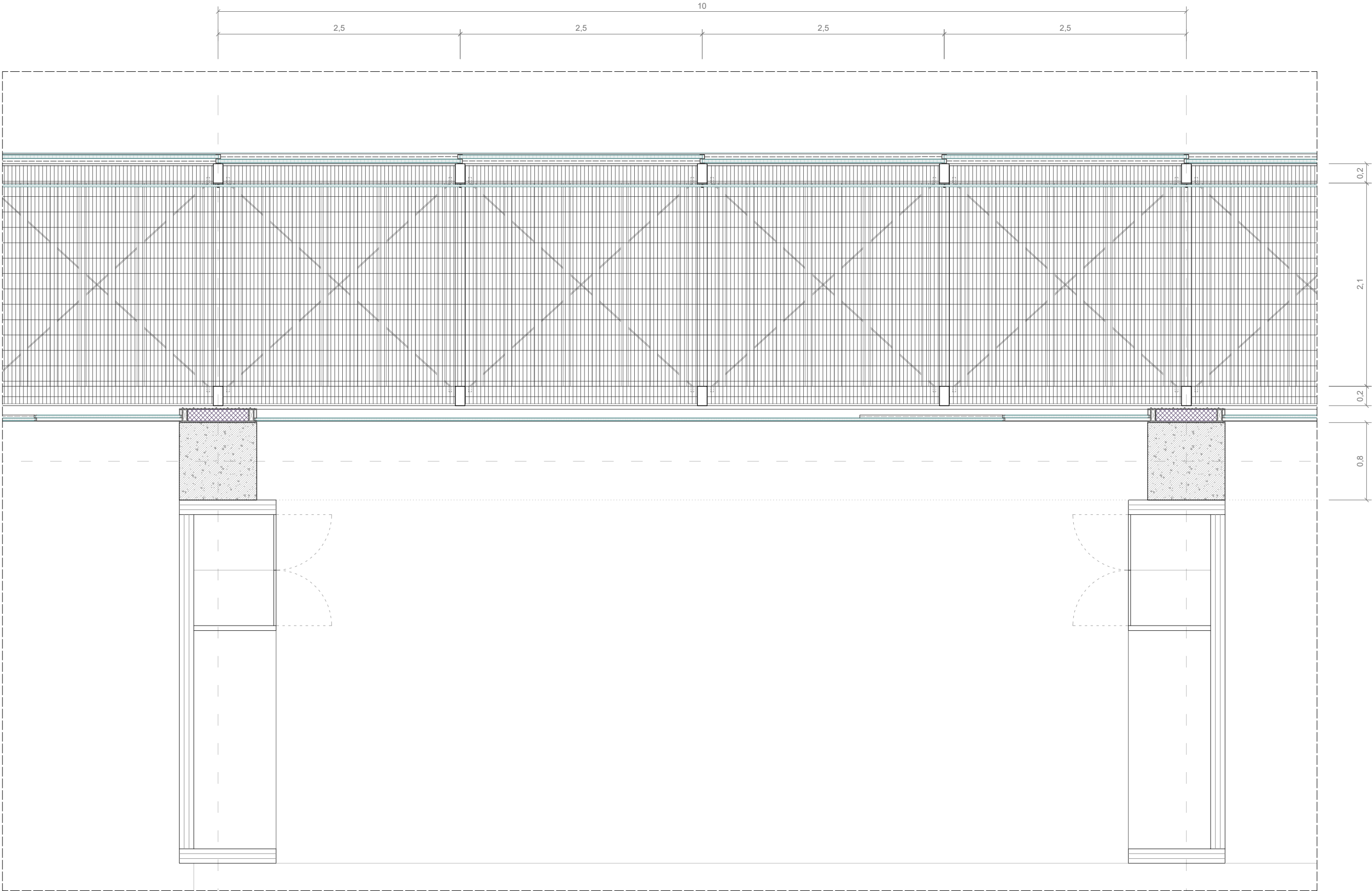
Facade - vertical section -

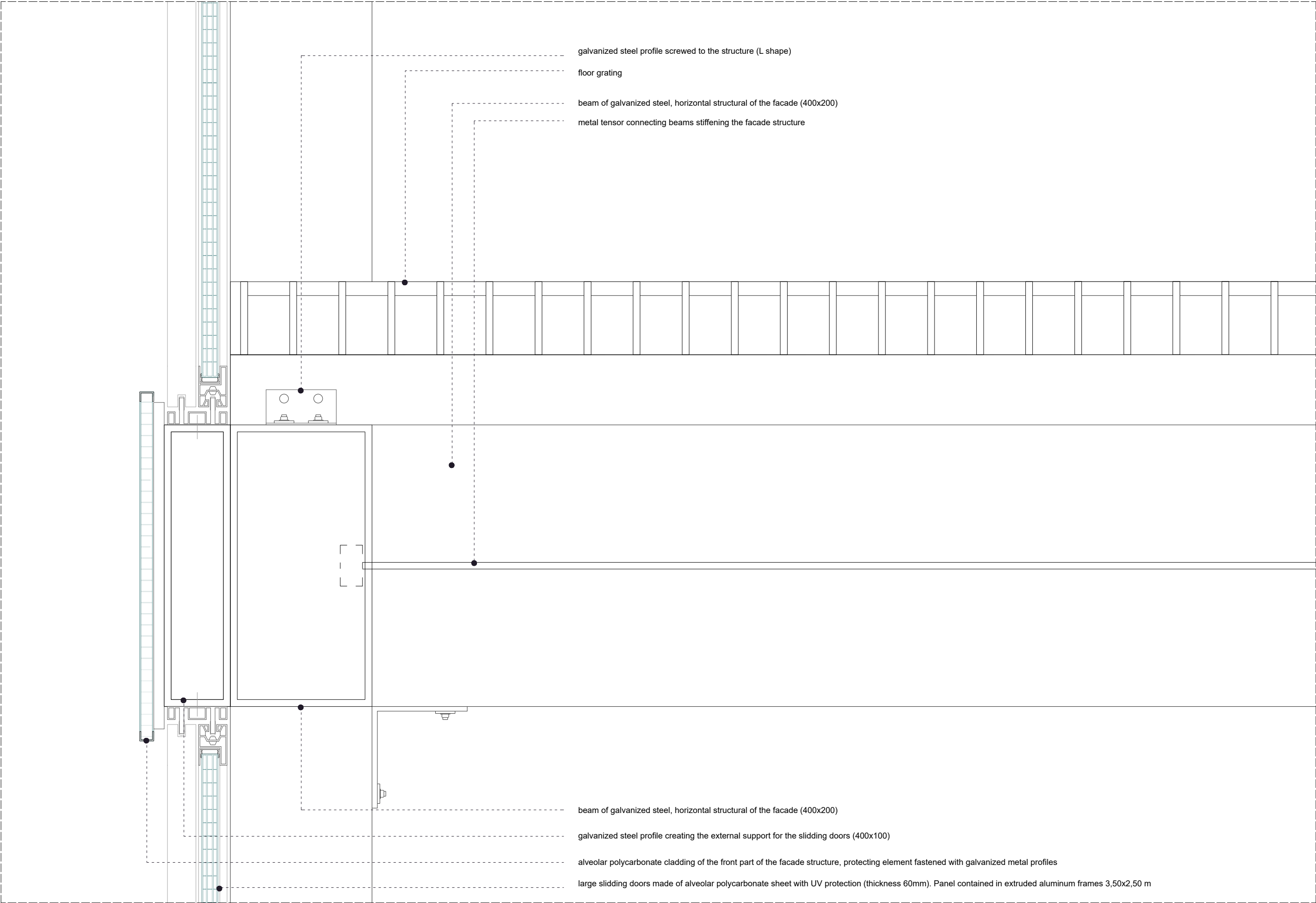


Facade - vertical section -

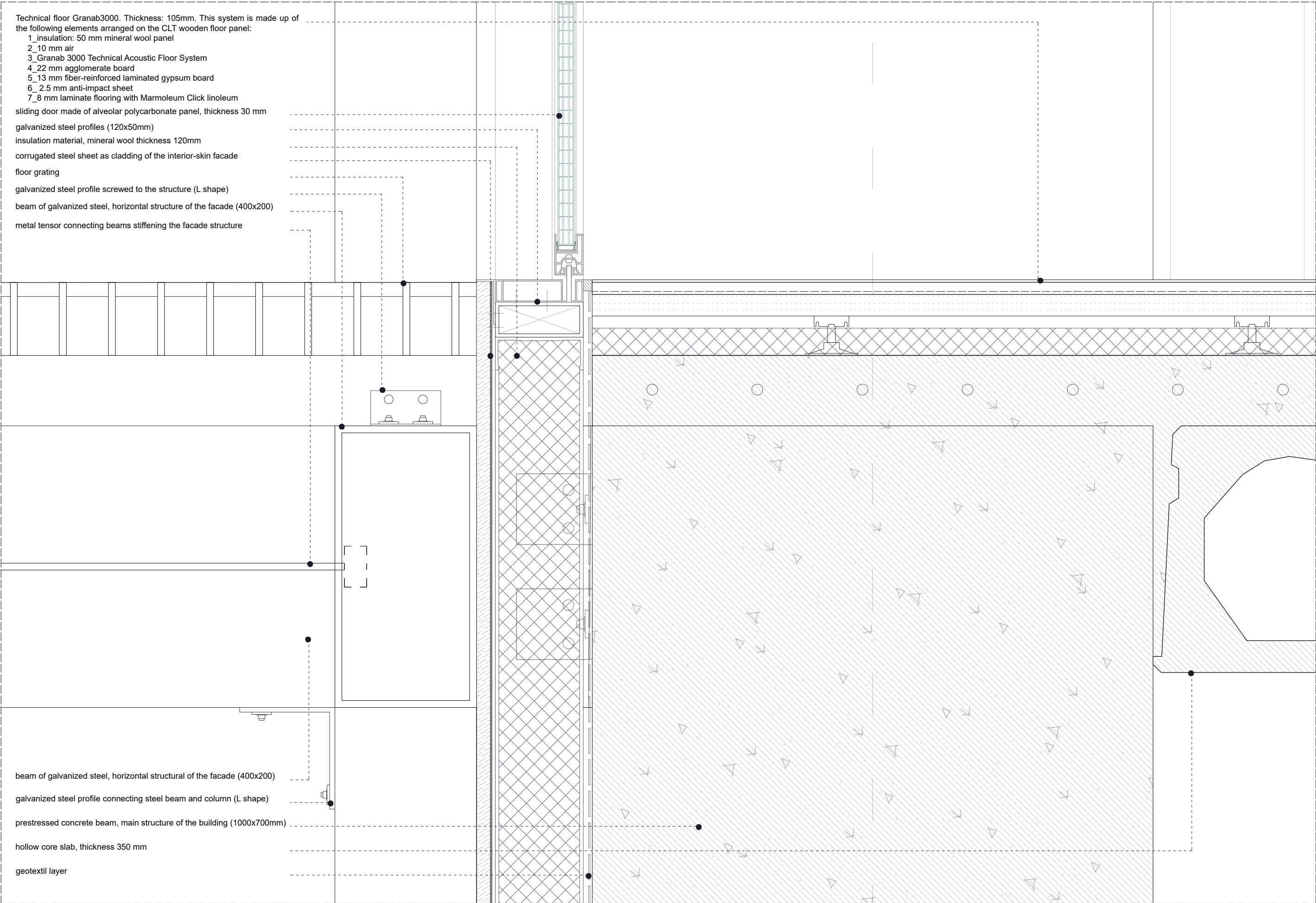


Facade - horizontal section -

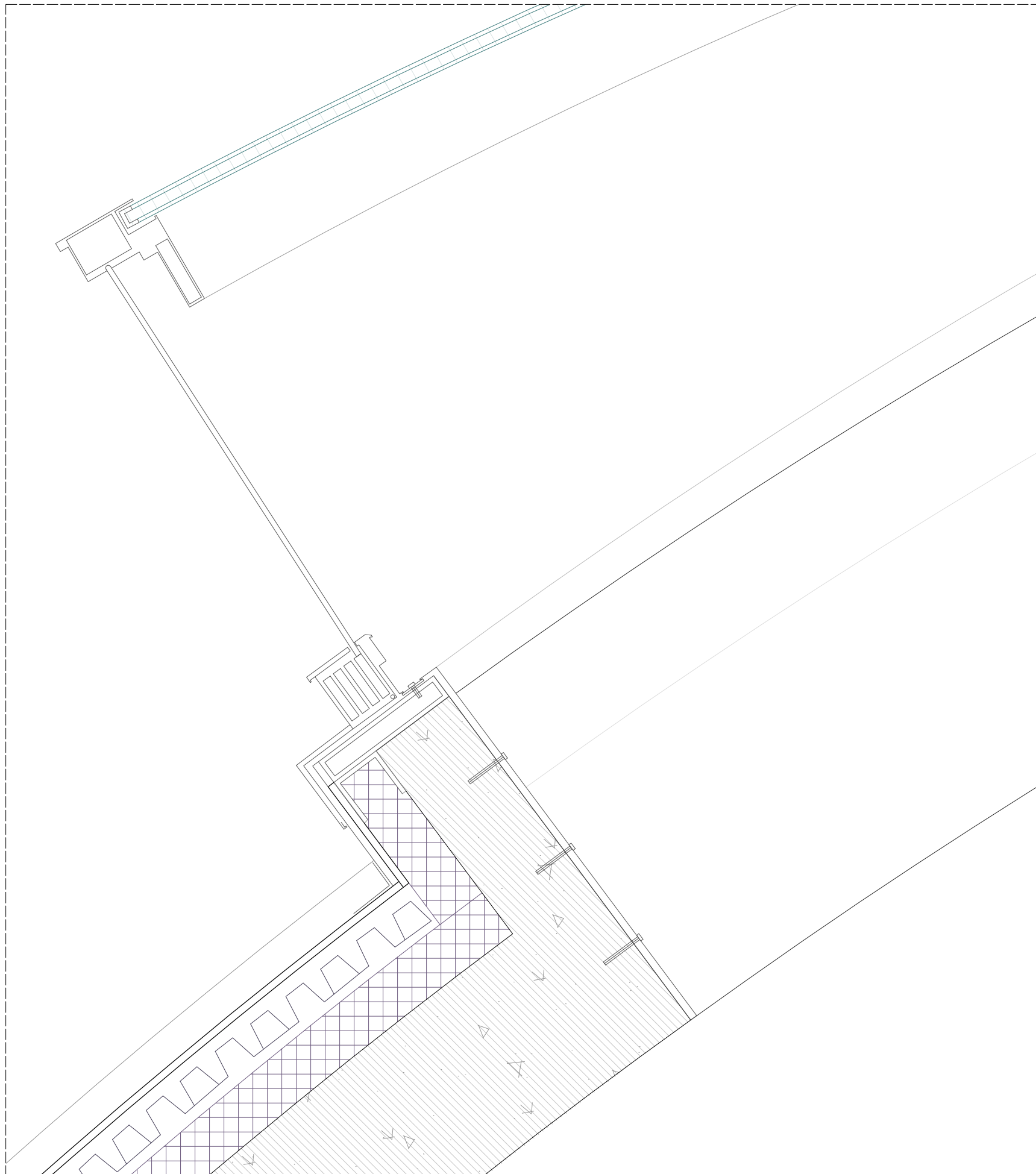




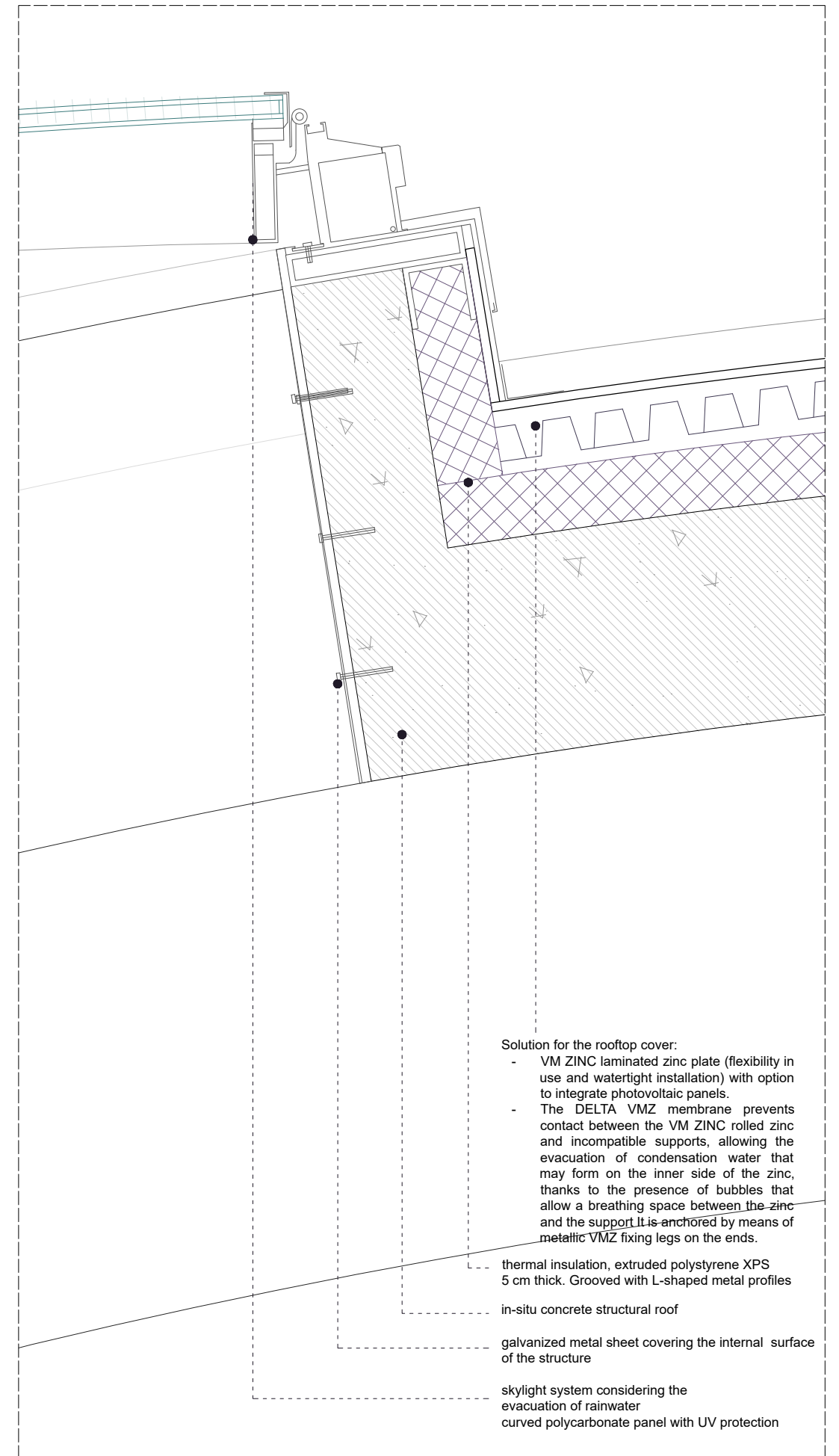
Facade - outer skin -

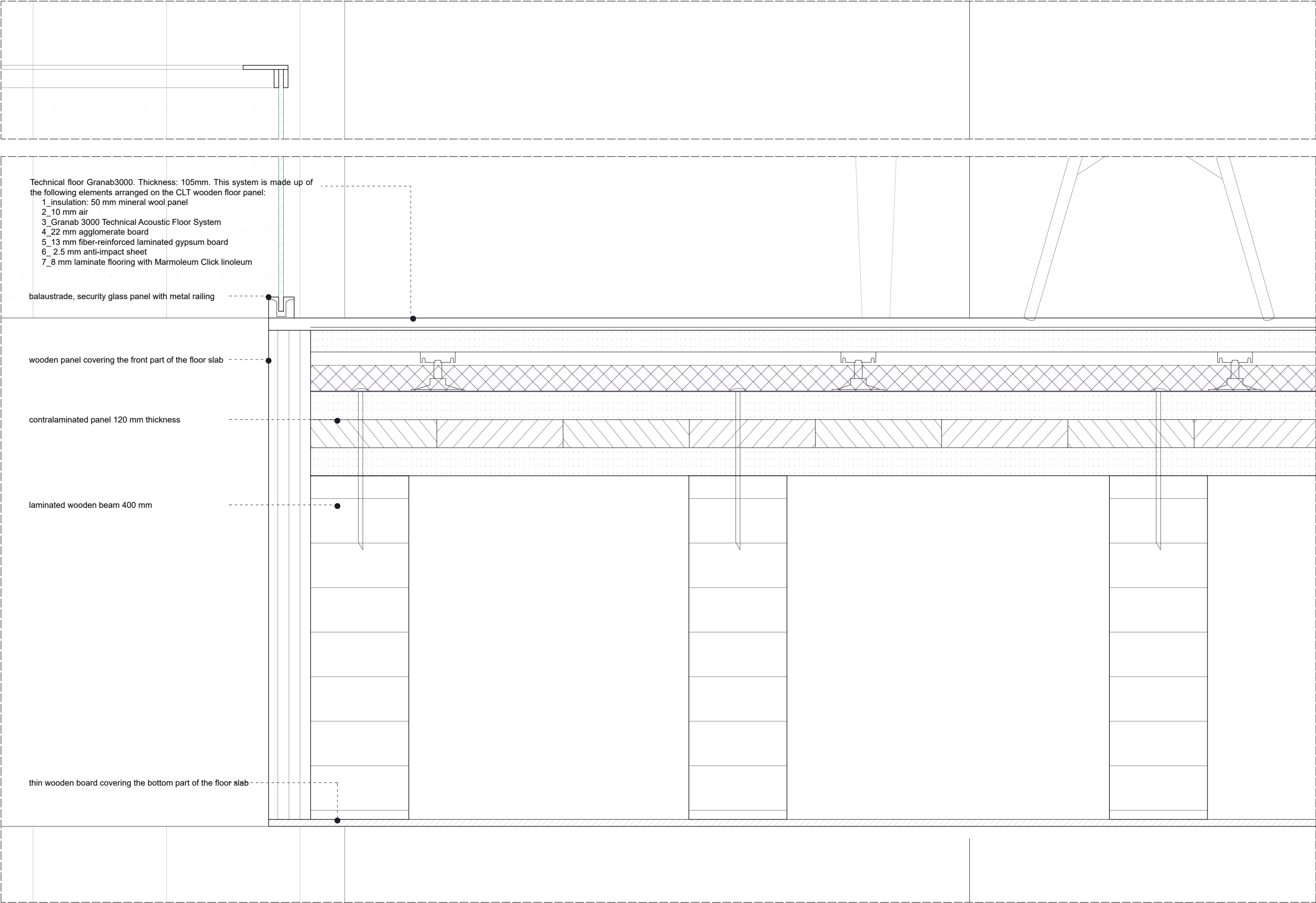


Facade - inner skin-



Rooftop skylight

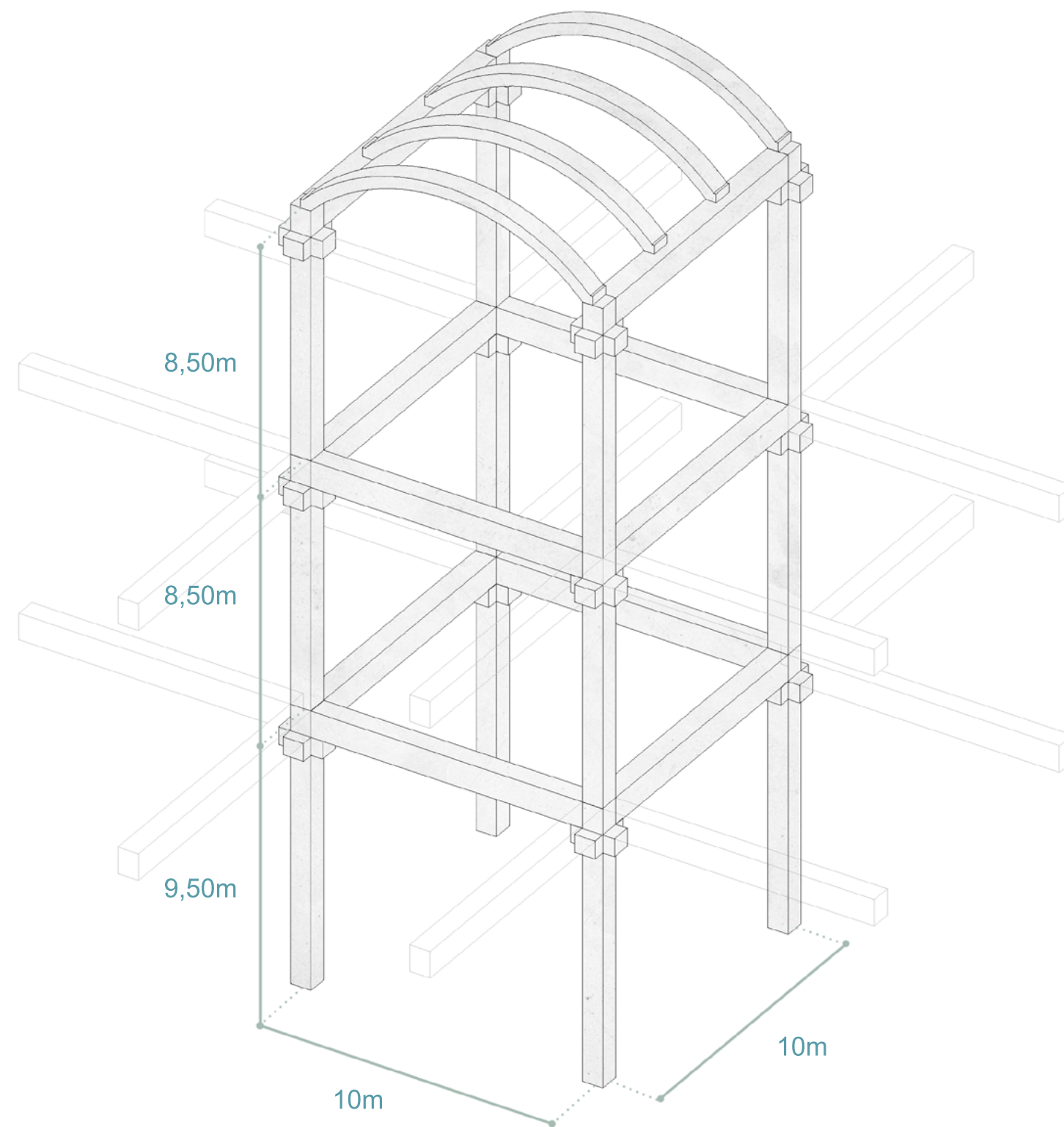




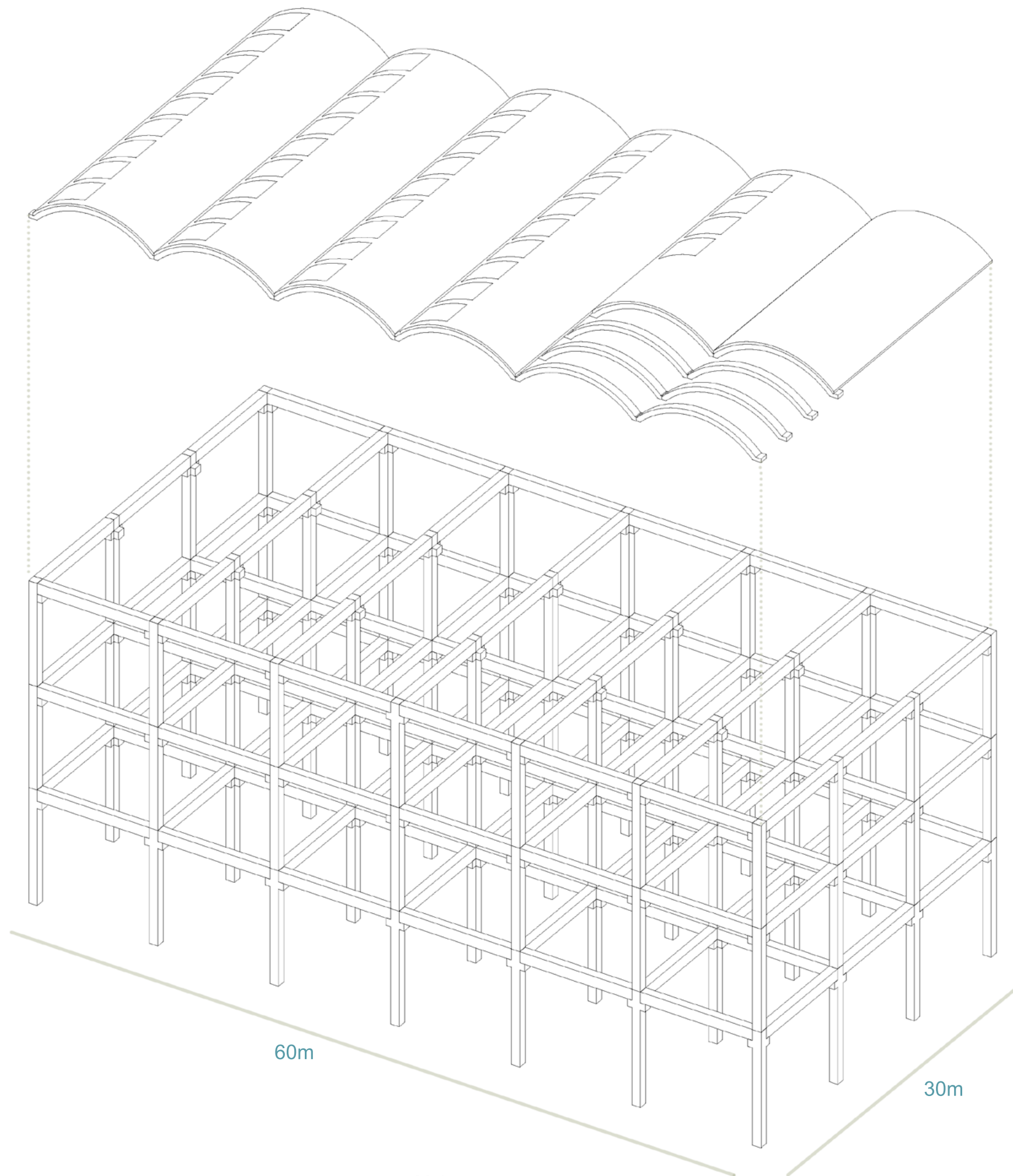
Secondary structure - timber elements -

structural system

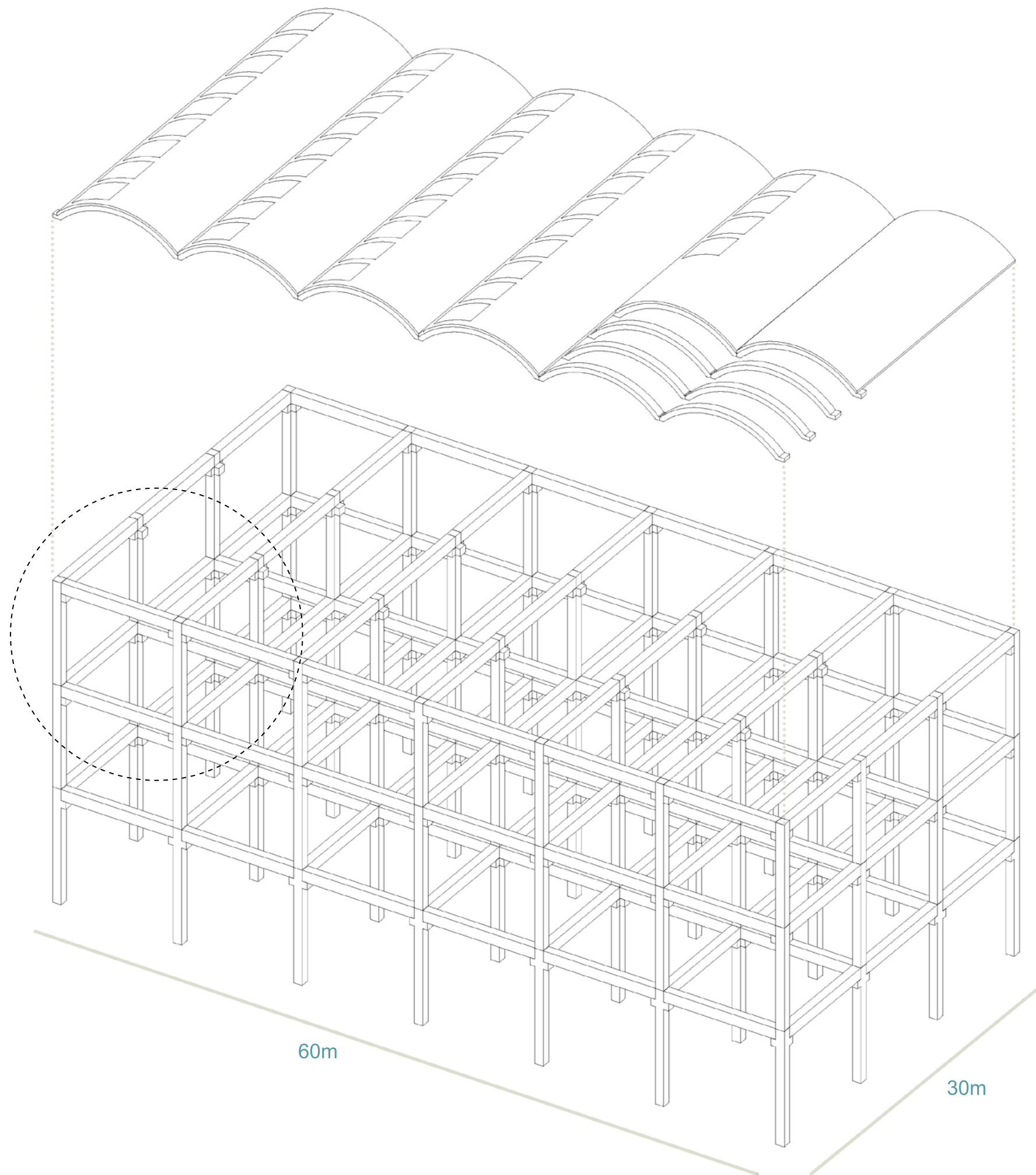
adaptative genericity to be inhabited



Main concrete structure
- module -



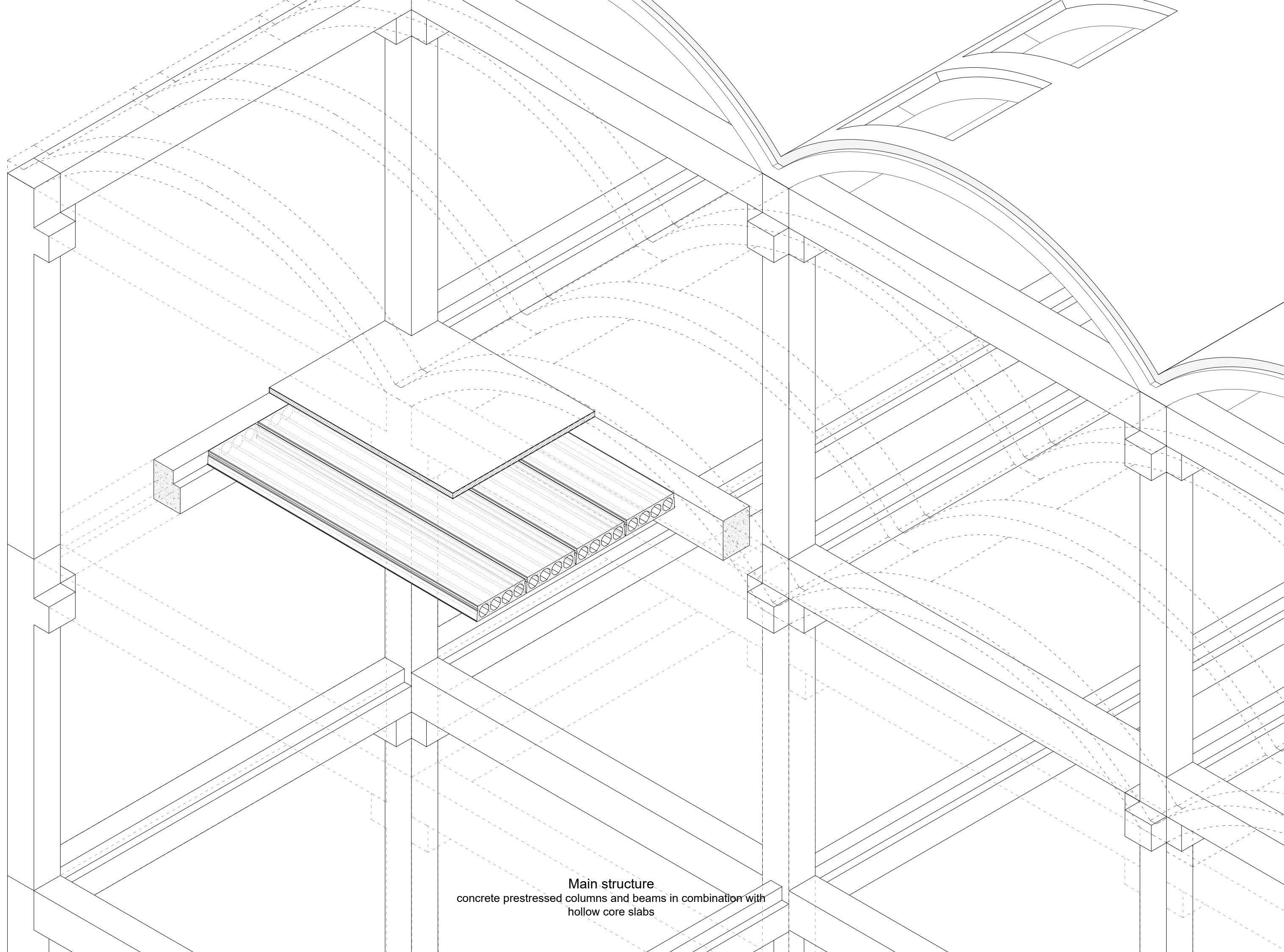
Main concrete structure



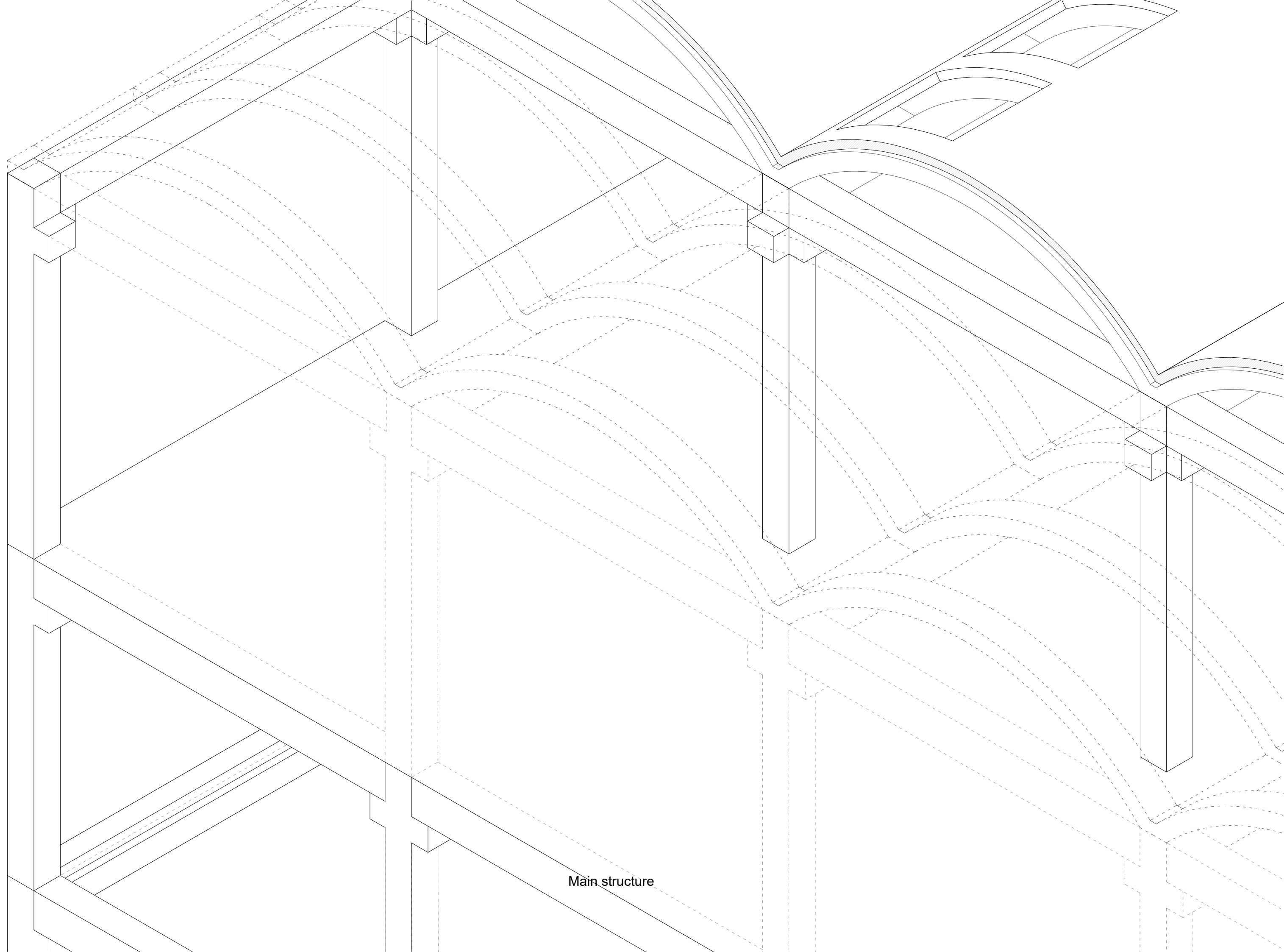
60m

30m

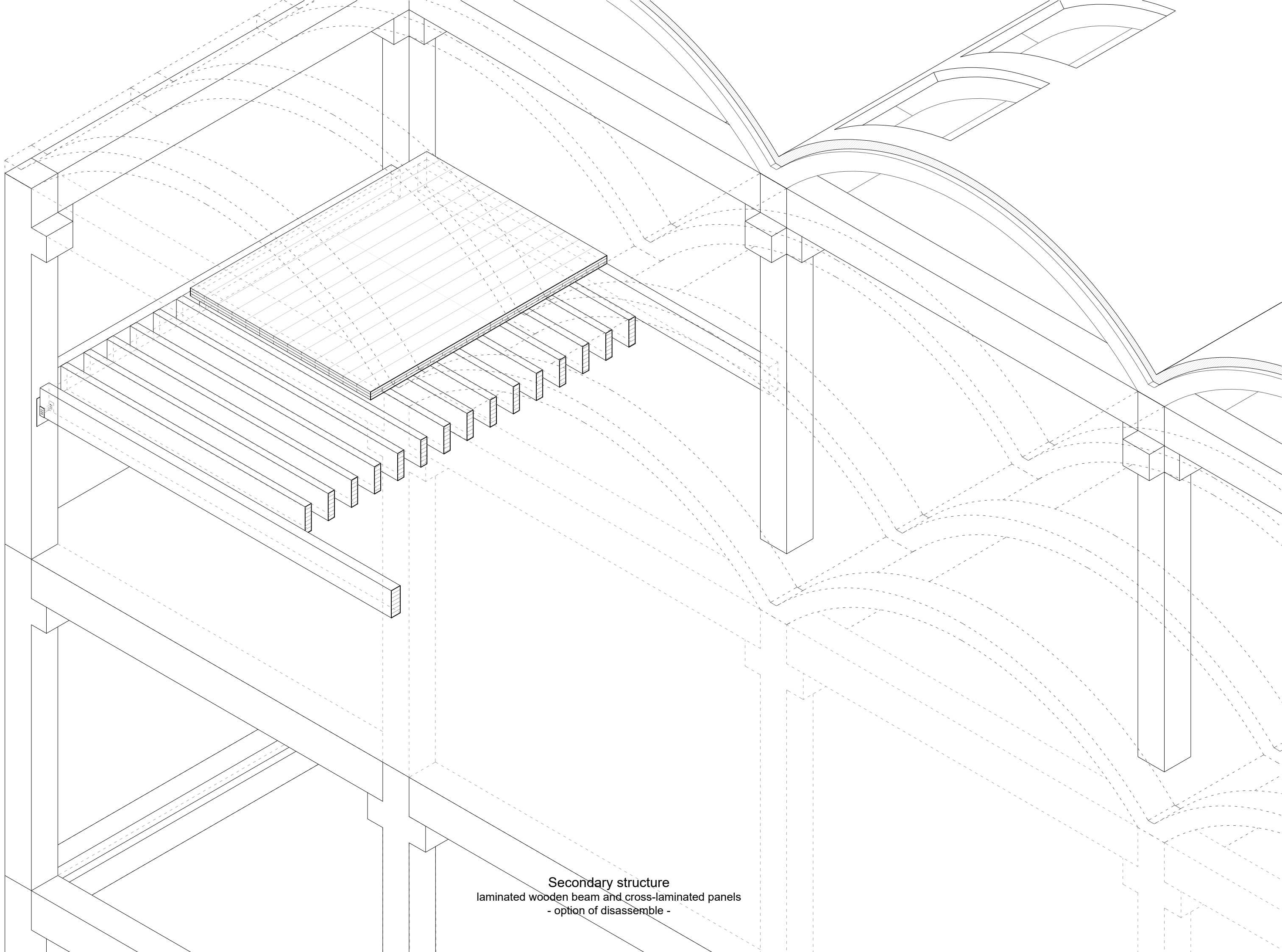
Main concrete structure



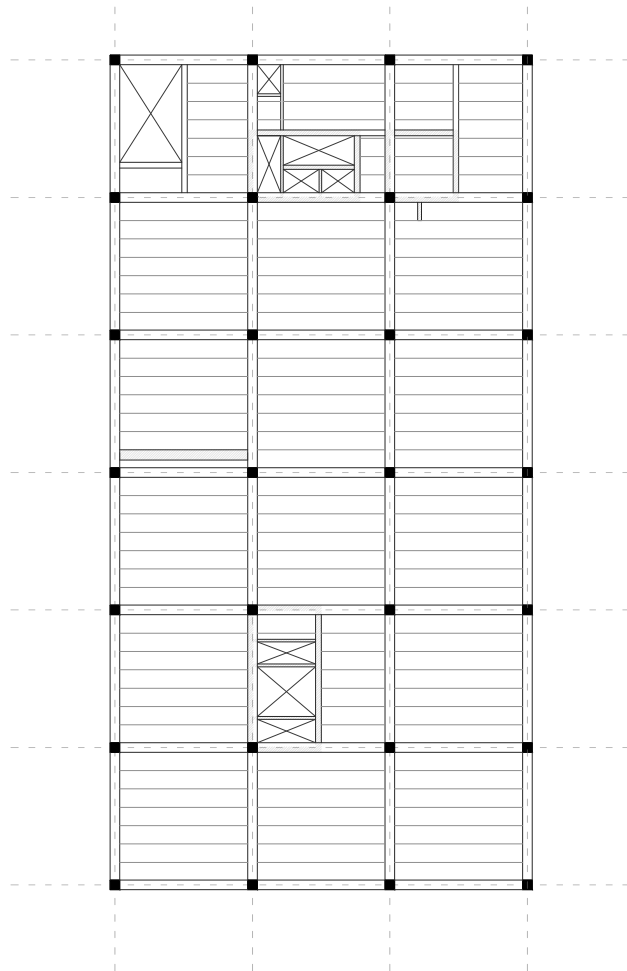
Main structure
concrete prestressed columns and beams in combination with
hollow core slabs



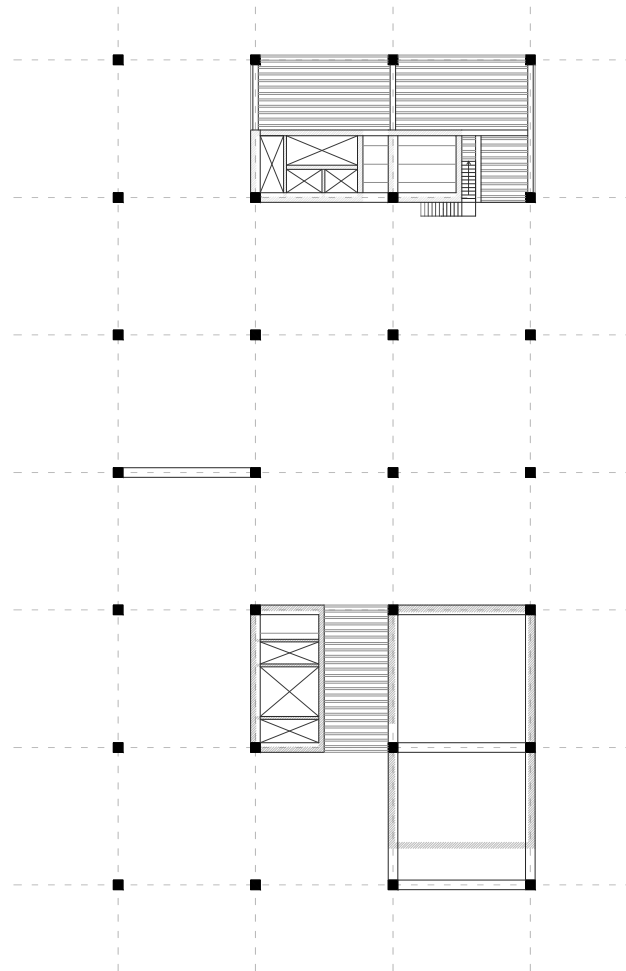
Main structure



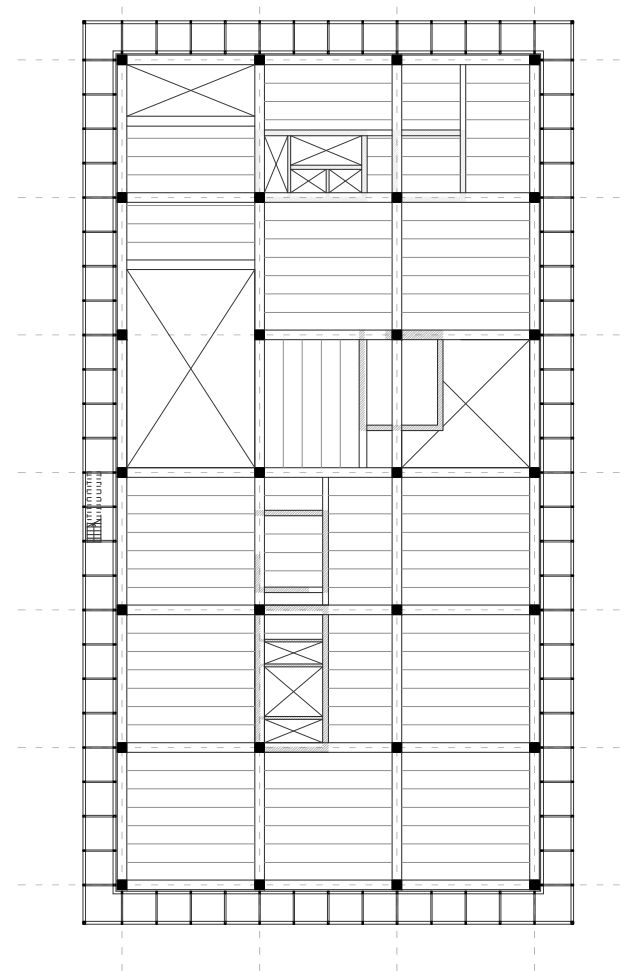
Secondary structure
laminated wooden beam and cross-laminated panels
- option of disassemble -



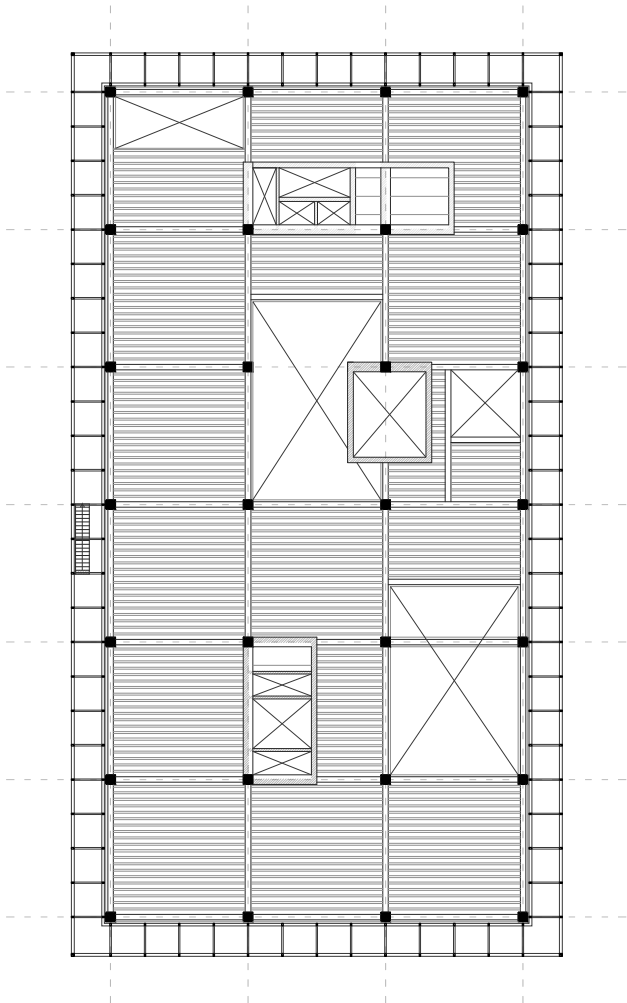
level 0.0



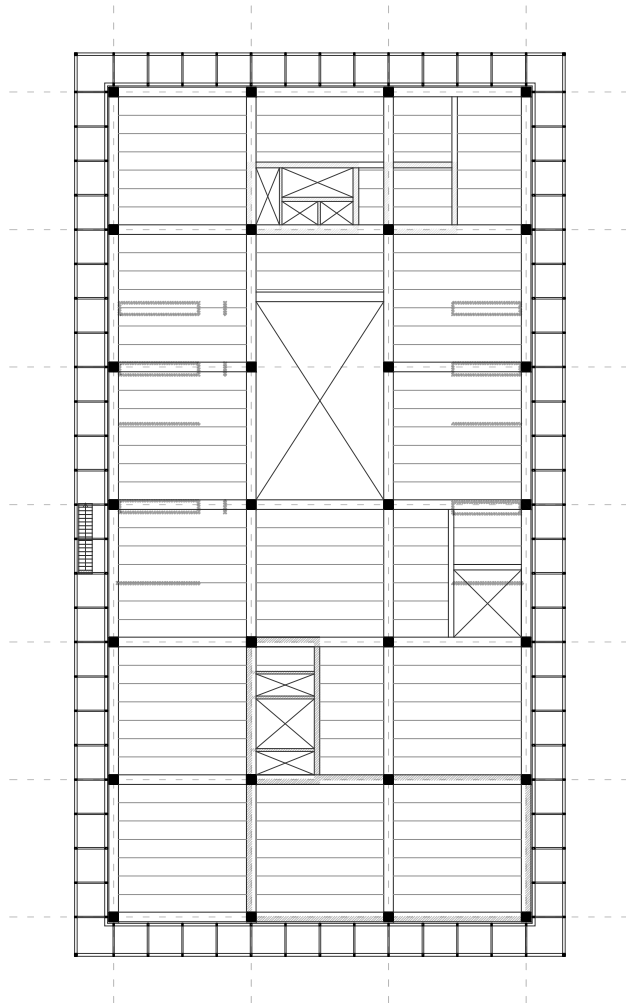
level 0.1



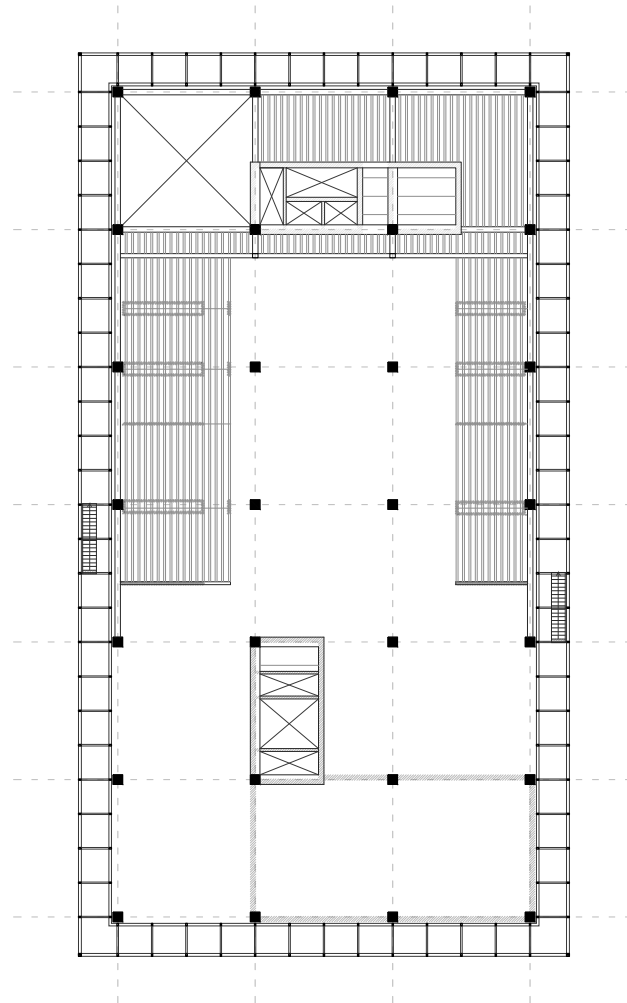
level 1.0



level 1.1

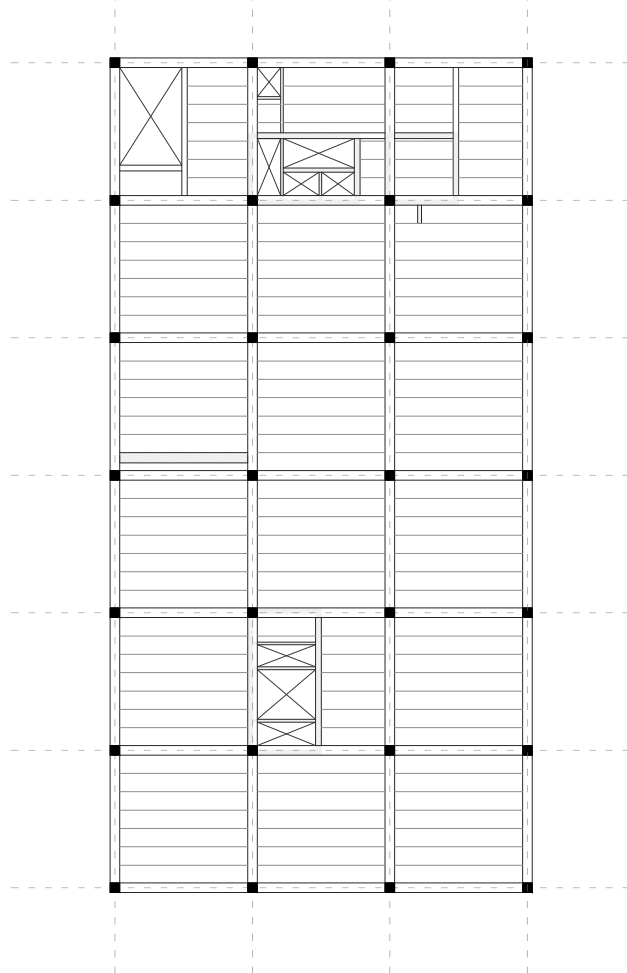


level 2.0

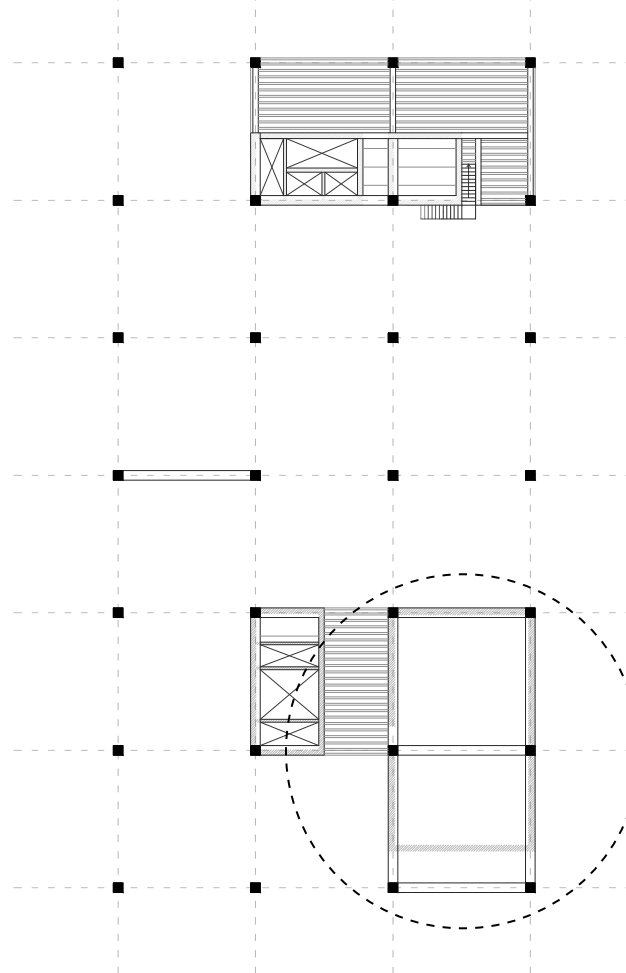


level 2.1

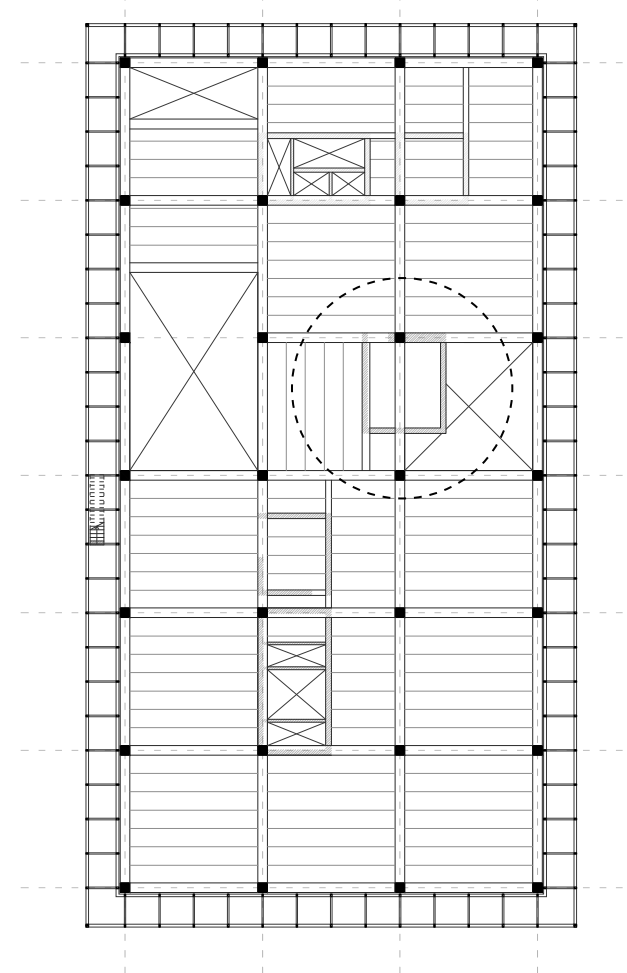
Structural development



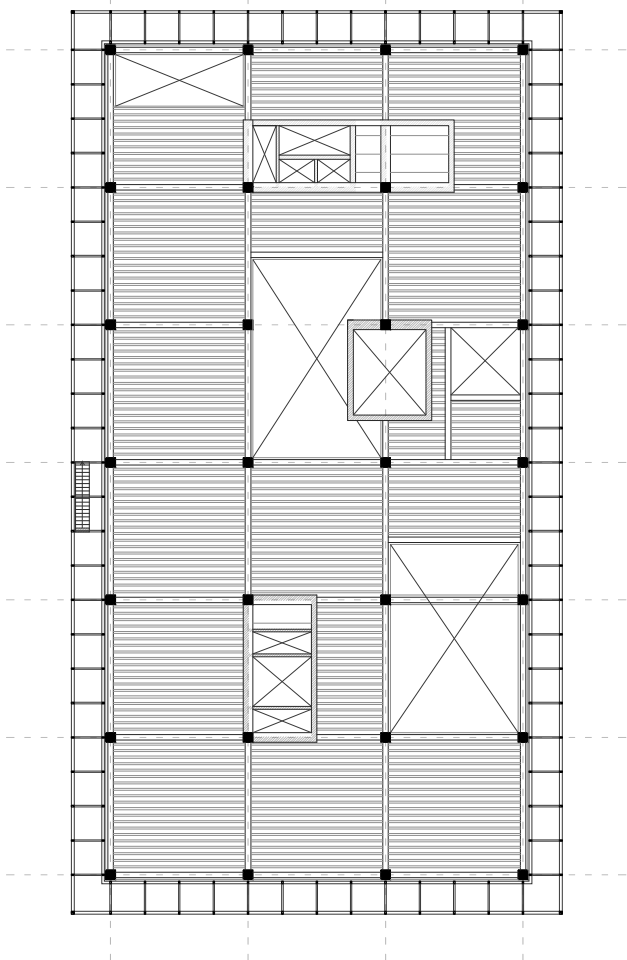
level 0.0



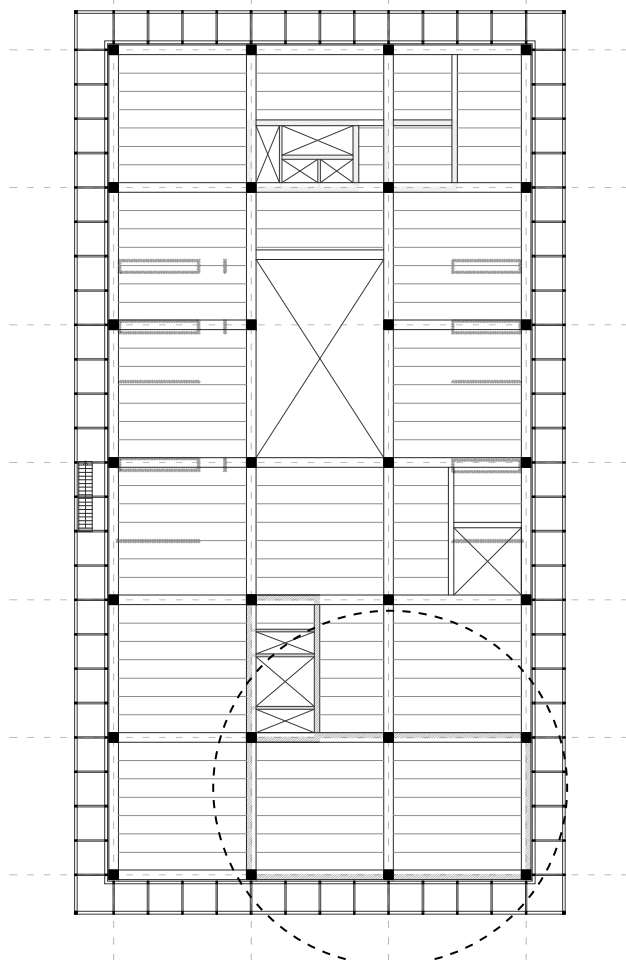
level 0.1



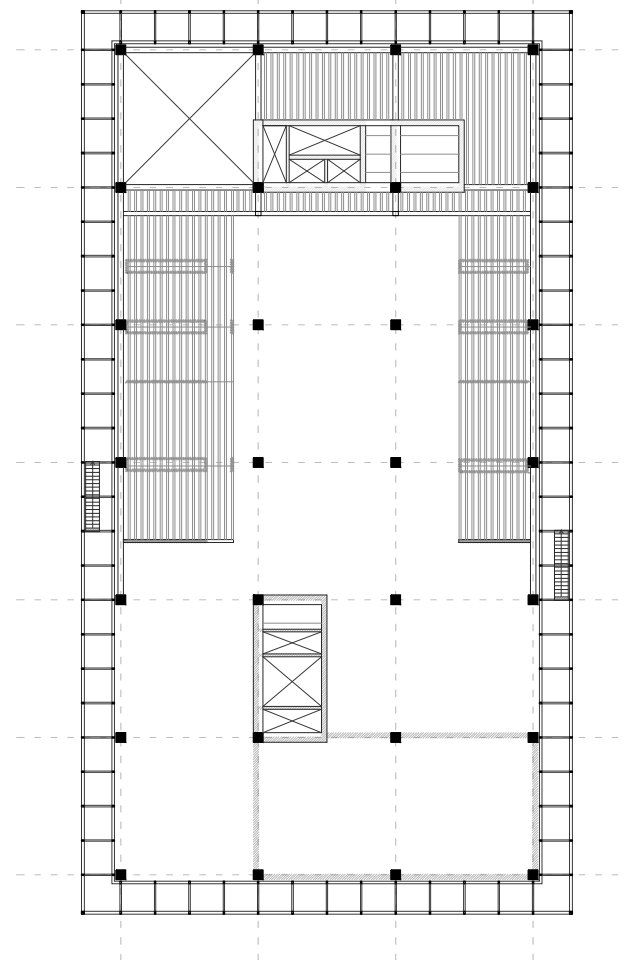
level 1.0



level 1.1

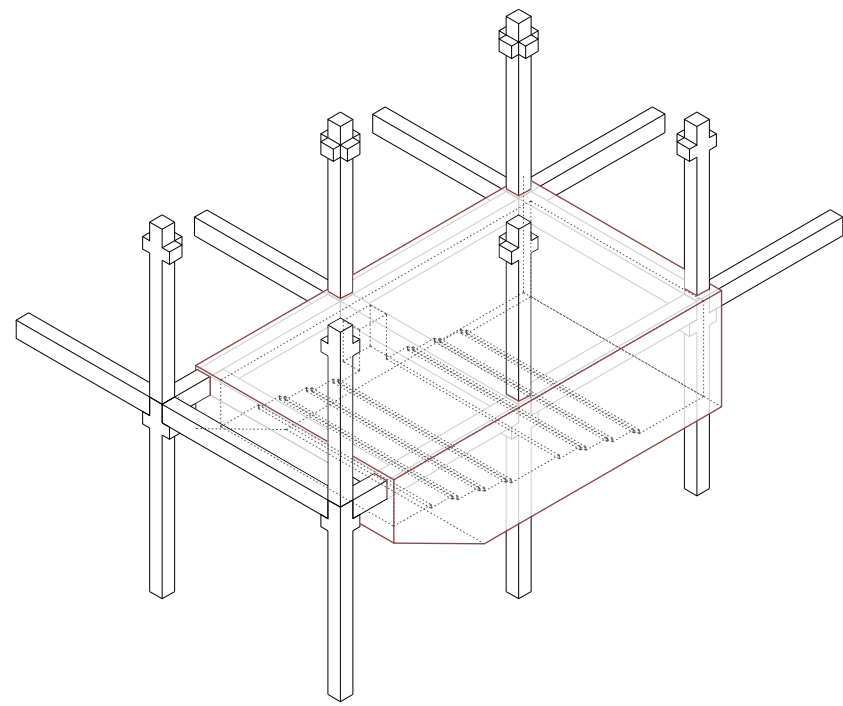


level 2.0

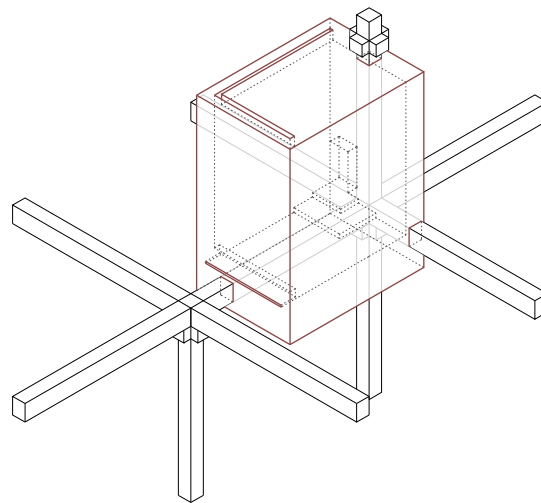


level 2.1

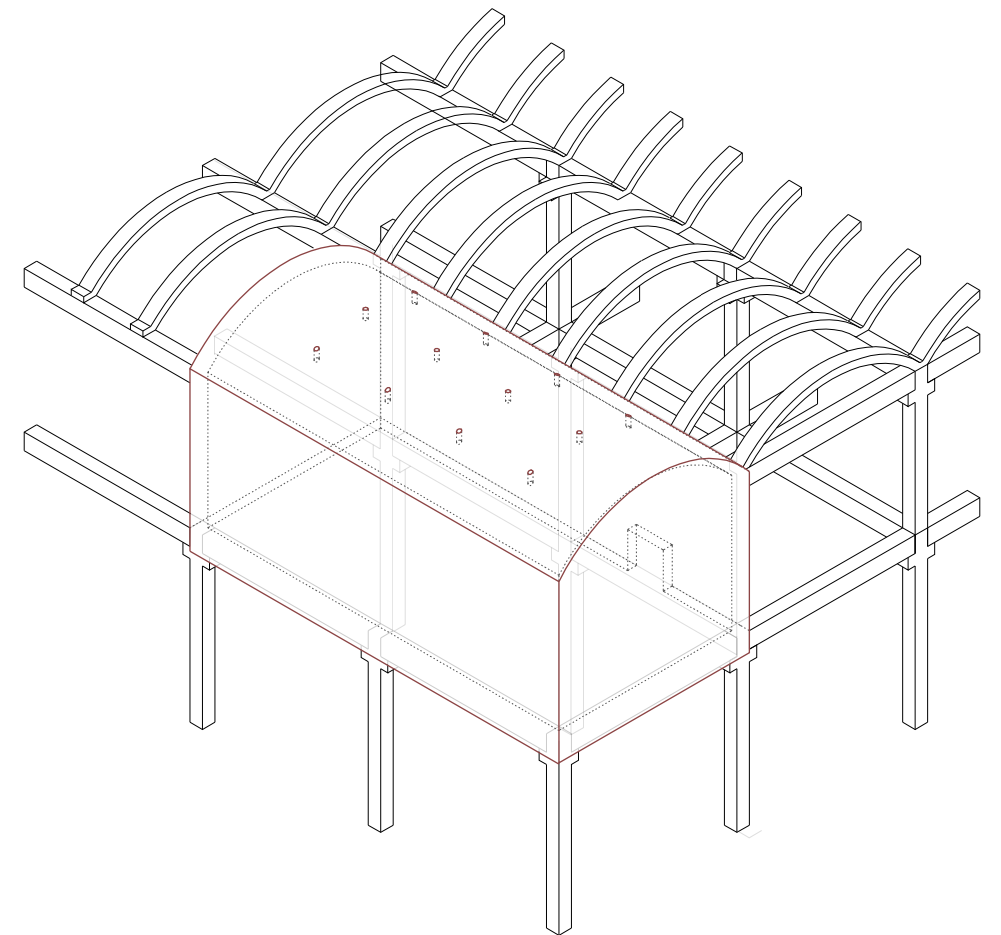
Structural development



Flexible auditorium
level 0.1

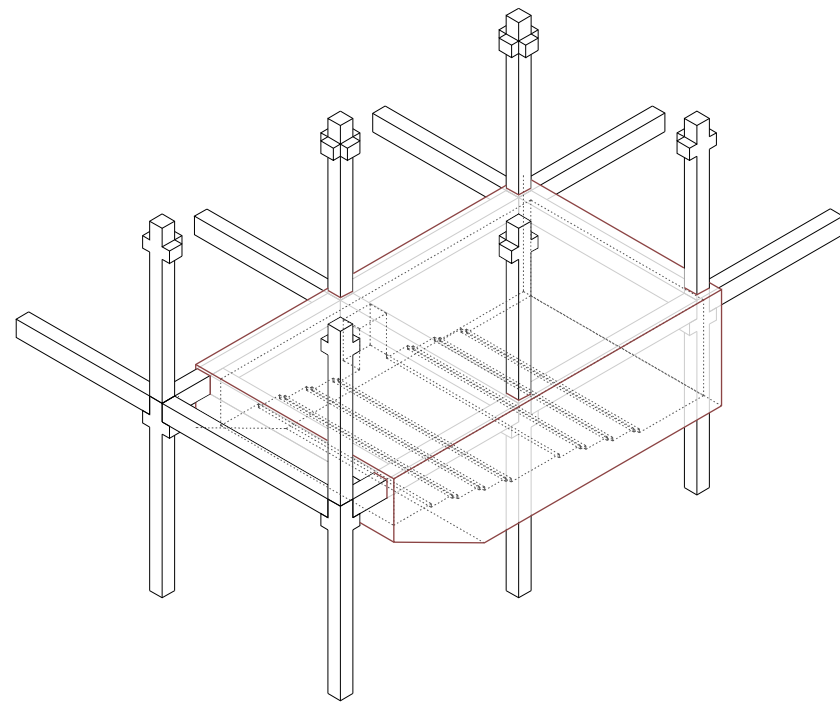


Exhibition
level 1.1

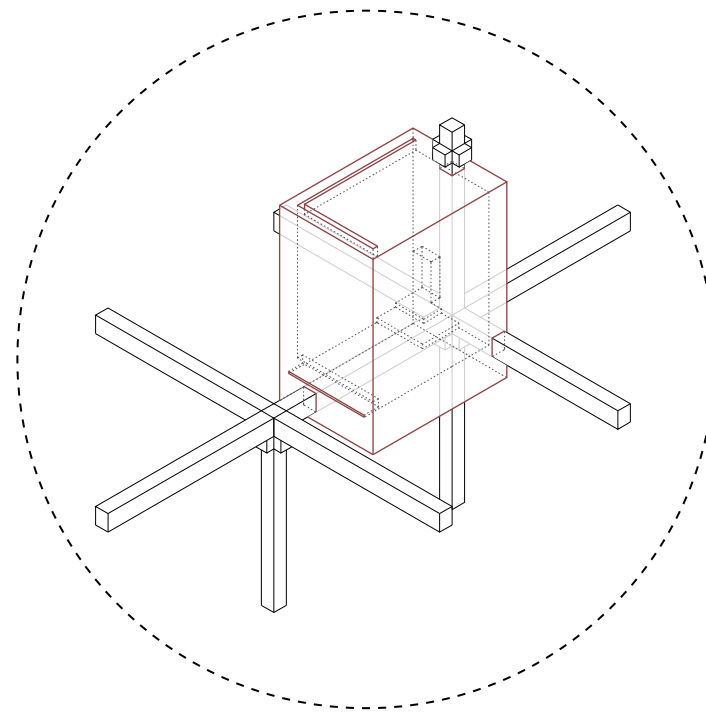


Exhibition
level 2.1

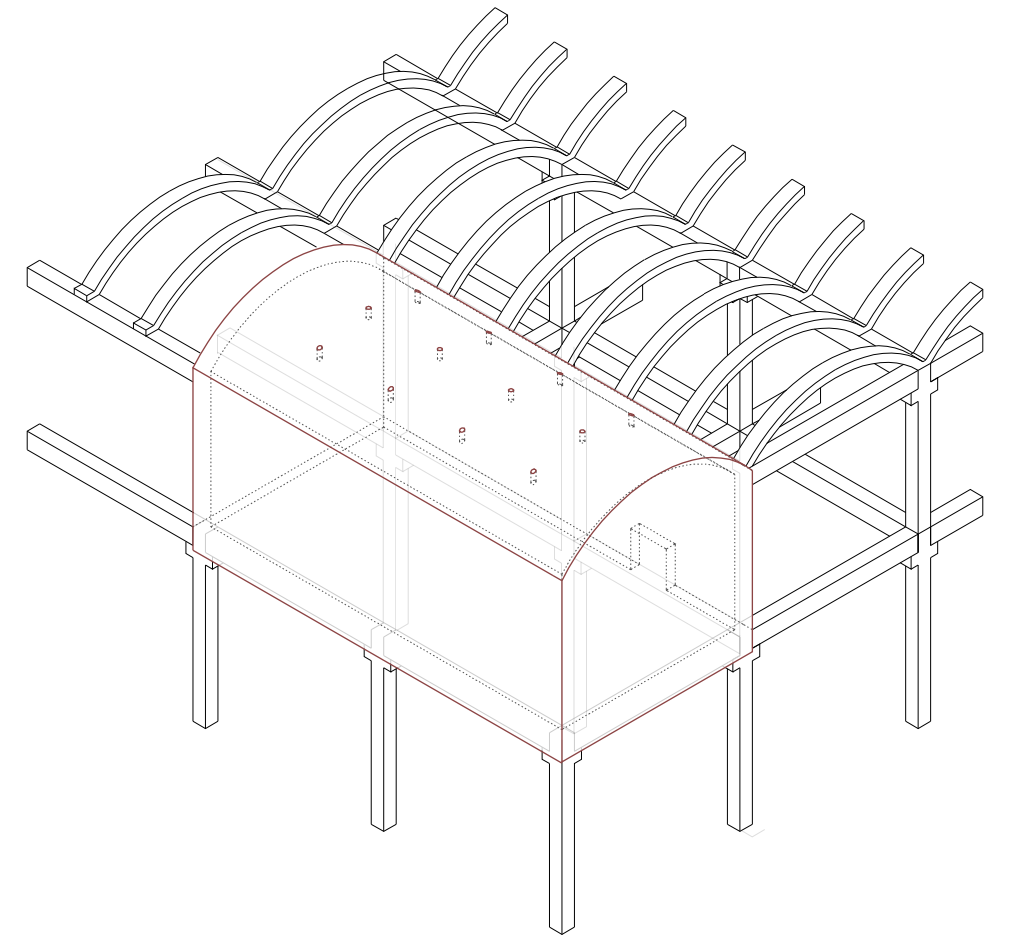
Crucial elements of the structure
massive volumes



Flexible auditorium
level 0.1

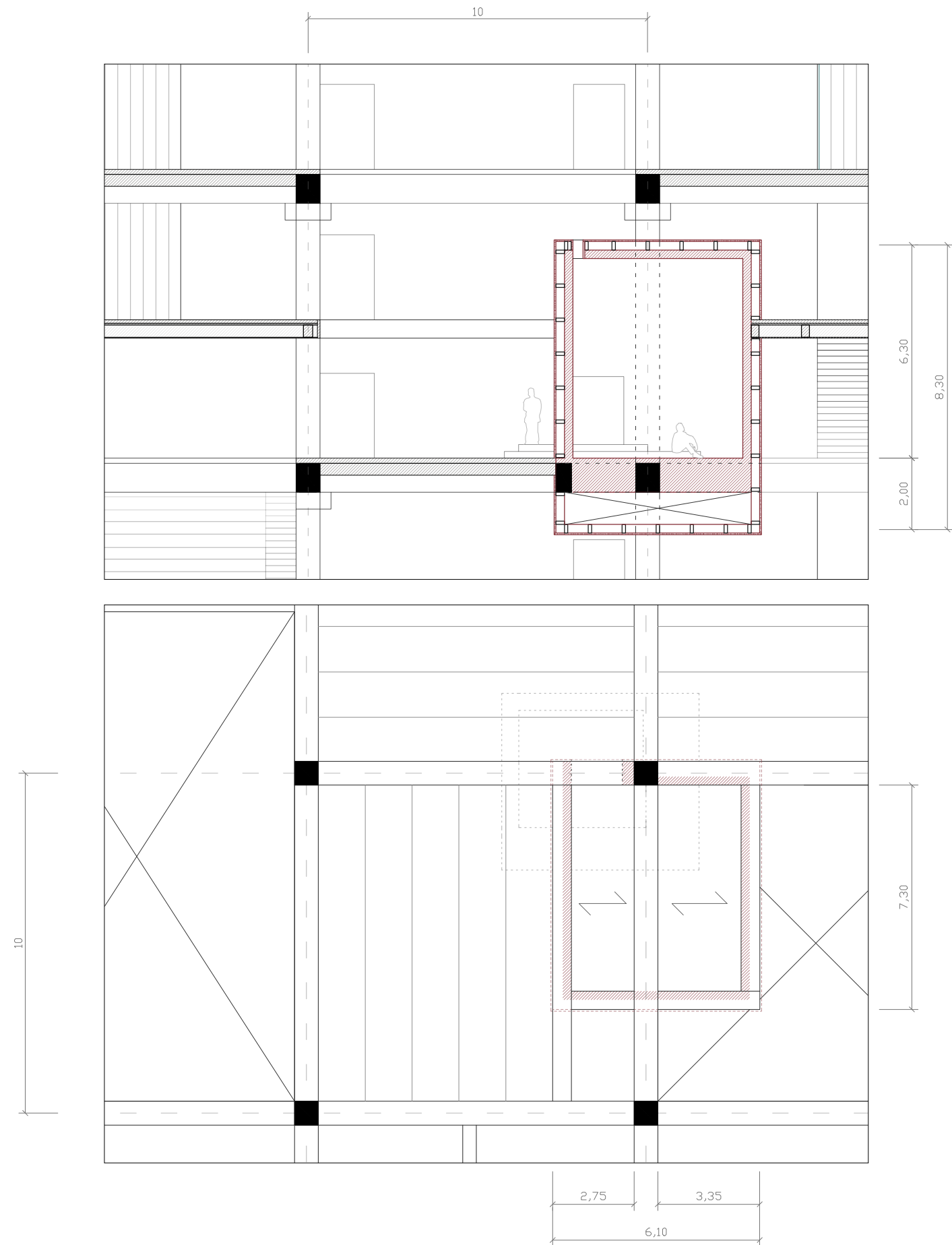


Exhibition
level 1.1



Exhibition
level 2.1

Crucial elements of the structure
massive volumes

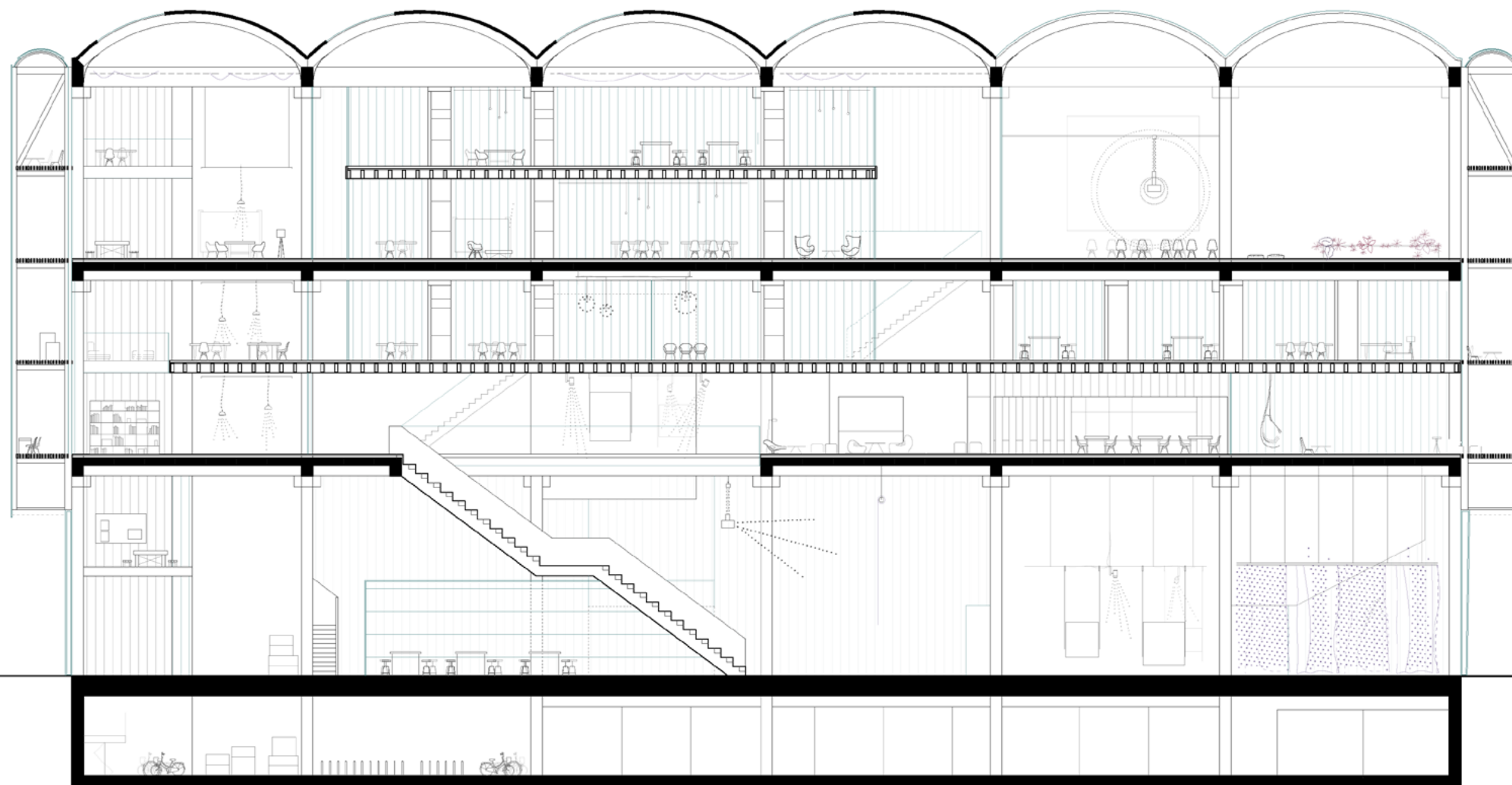


Massive volume -promotion space
level 1.0 - 1.1

sustainability

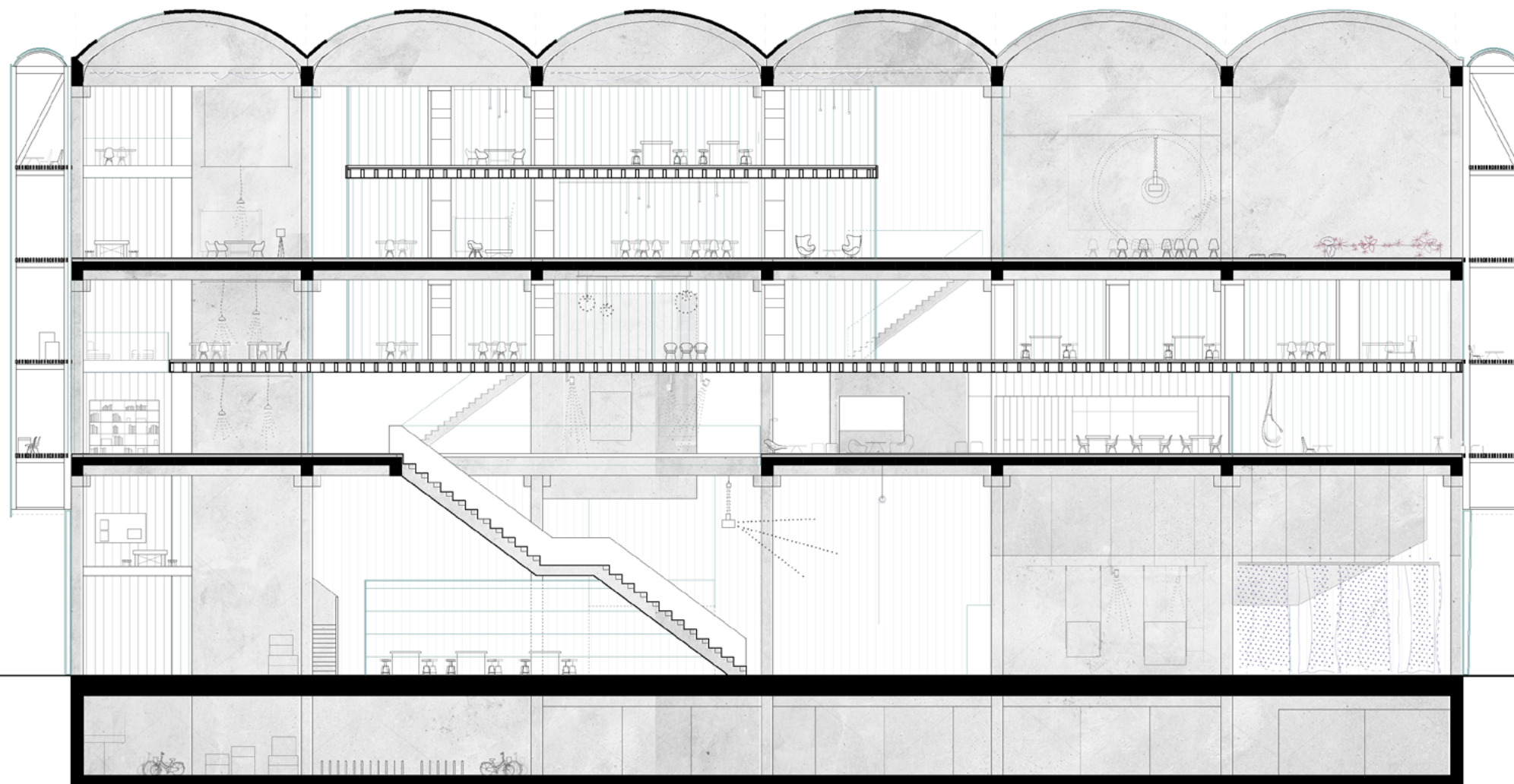
integrated design

Principles of sustainability



Principles of sustainability

Fix structure - avoiding future demolition -
with space enough to make it adaptable for future uses



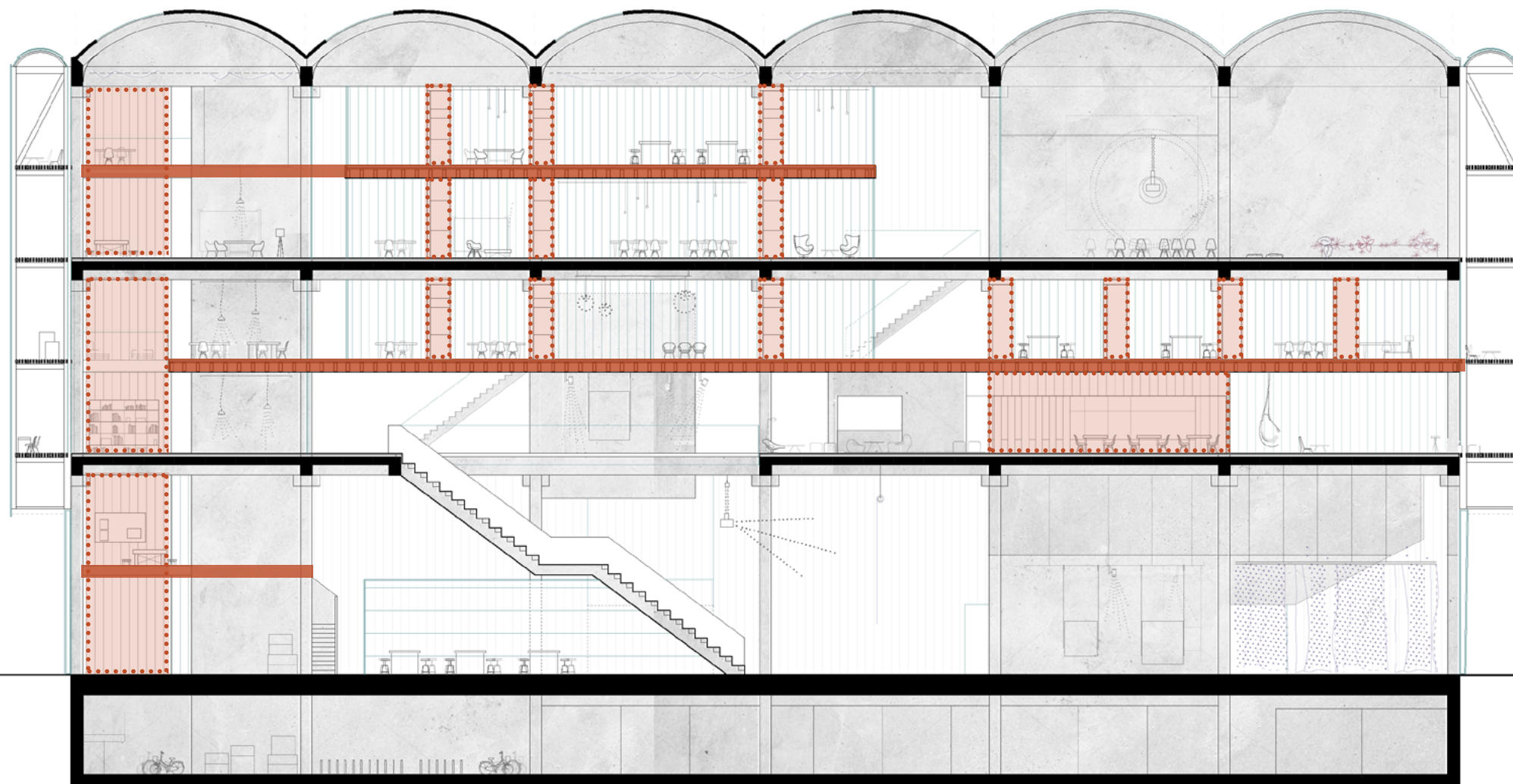
Partition boxes

adaptable to changes in use

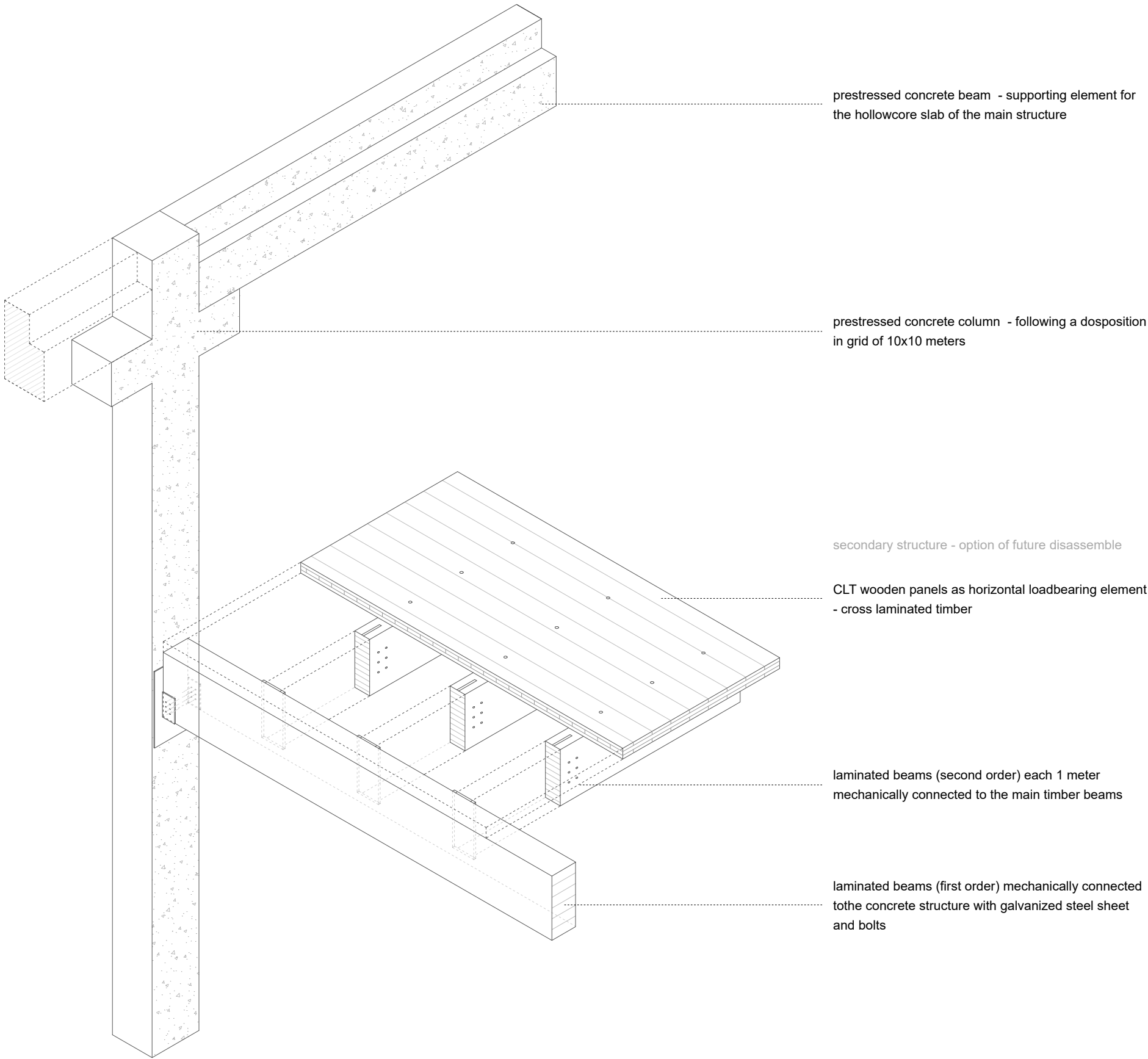
reusable elements and materials

with sustainable benefits /cross laminated timber panels/

self-supporting panels + additional functional use = individual storage + pass ducts for individual uses

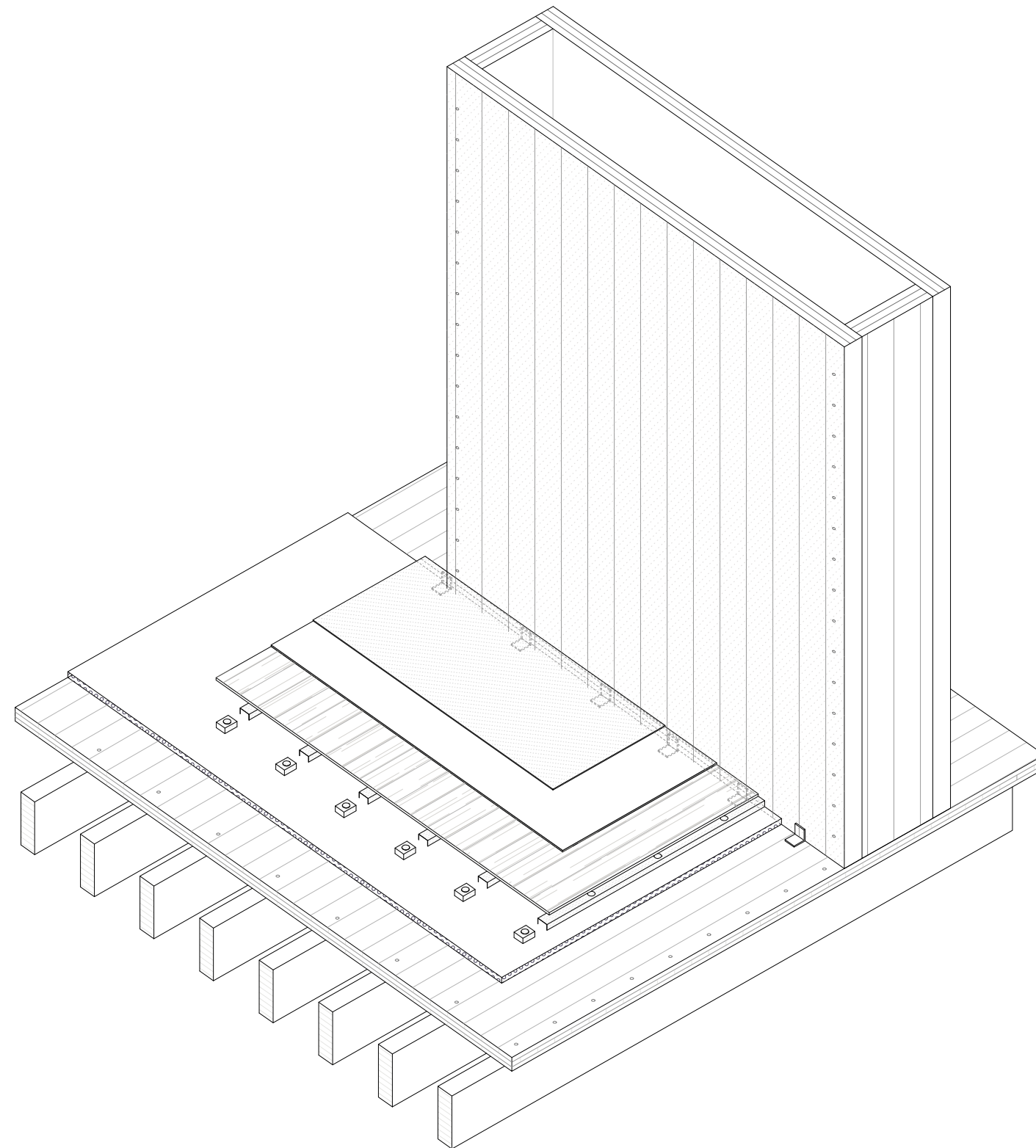


Prefabricated systems



combination of fixed precast concrete elements and timber in specific parts of the structure

Prefabricated systems



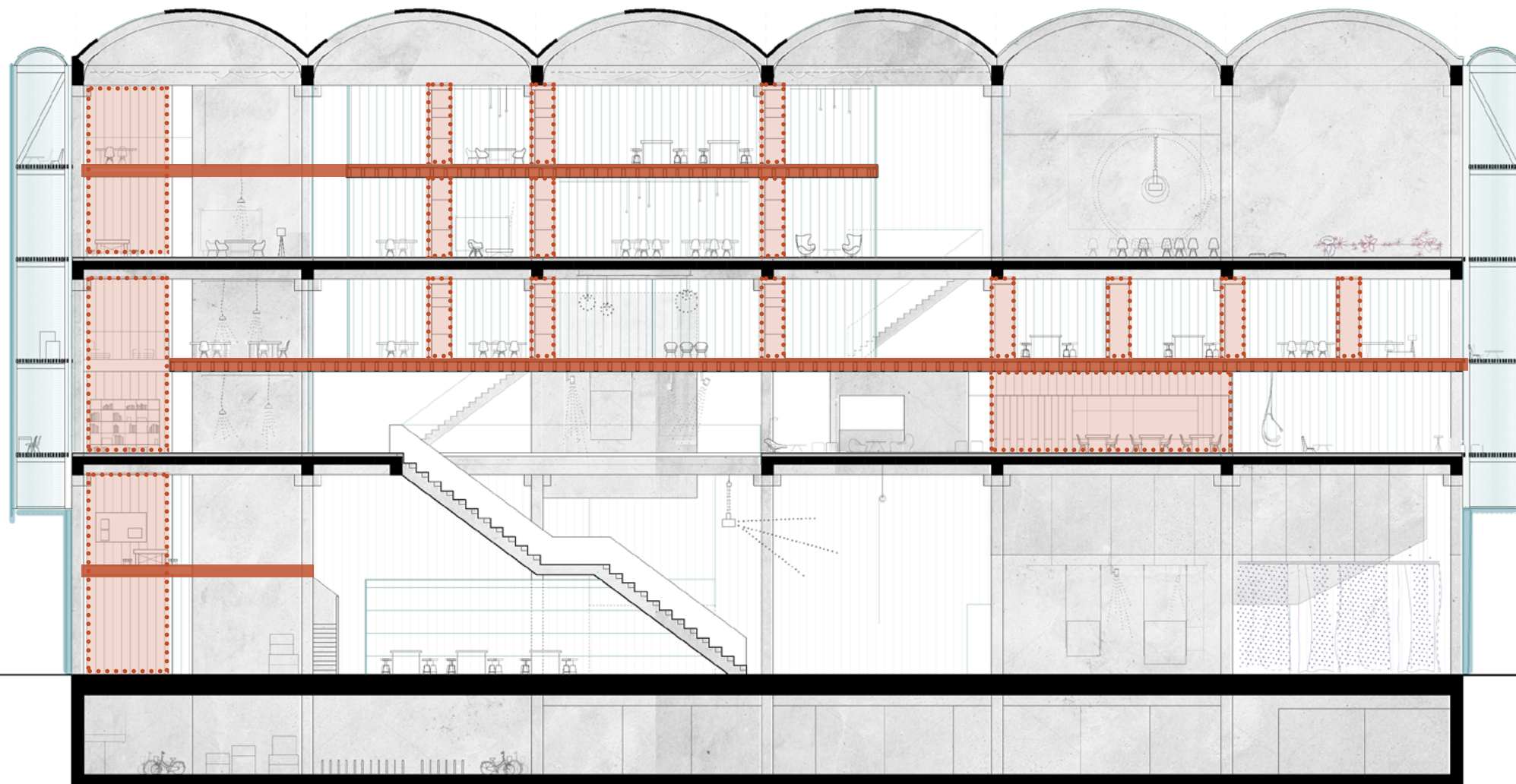
internal division of spaces + technical floor
crosslaminated timber panels



use of lightest materials which are easy to assemble and disassemble
with option of later reuse creating more kind and inviting spaces

Sustainable benefits of the facade

double skin facade
control of cross natural ventilation
sun protection
extra functional qualities

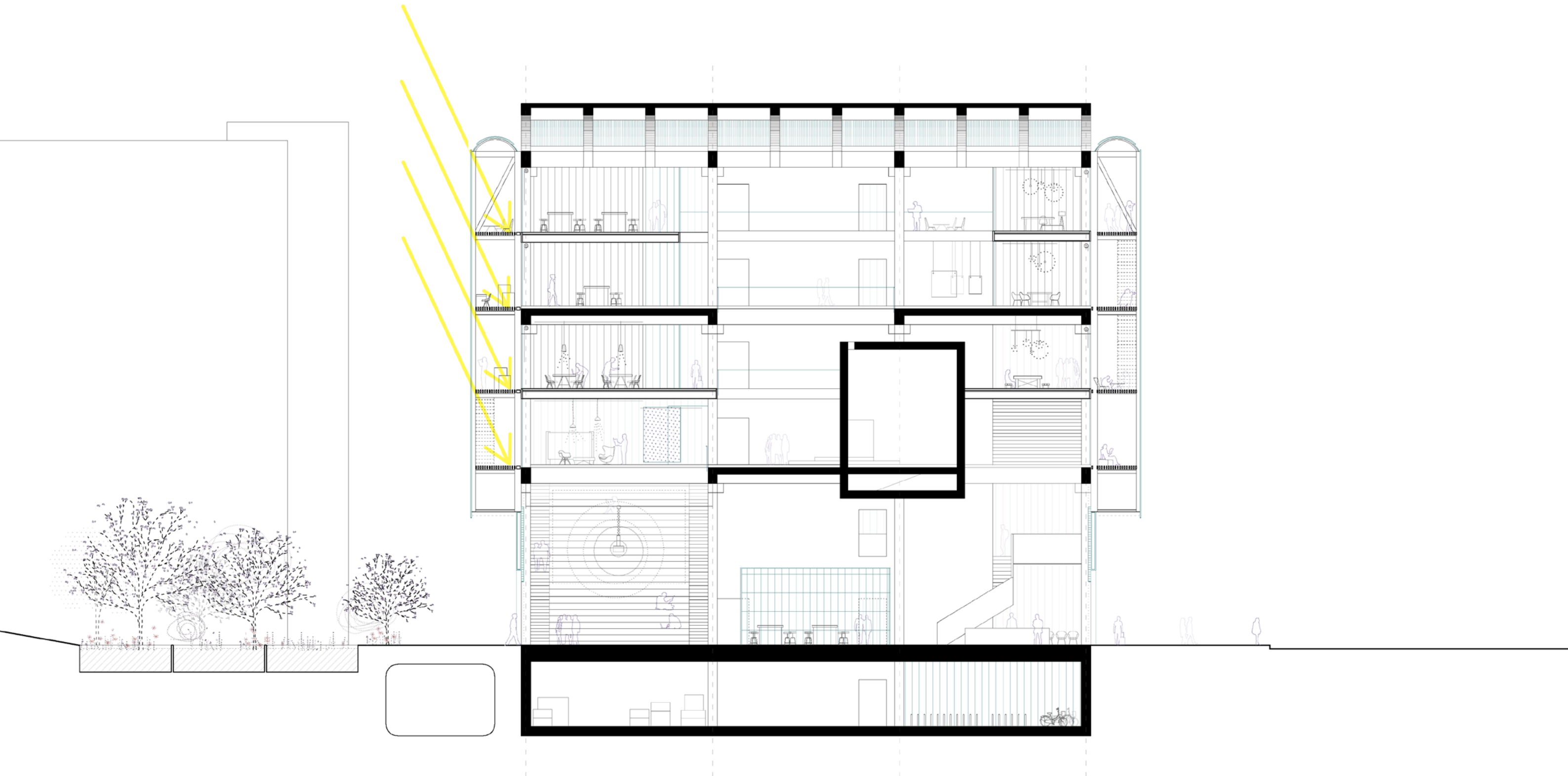




Wide facade - summer

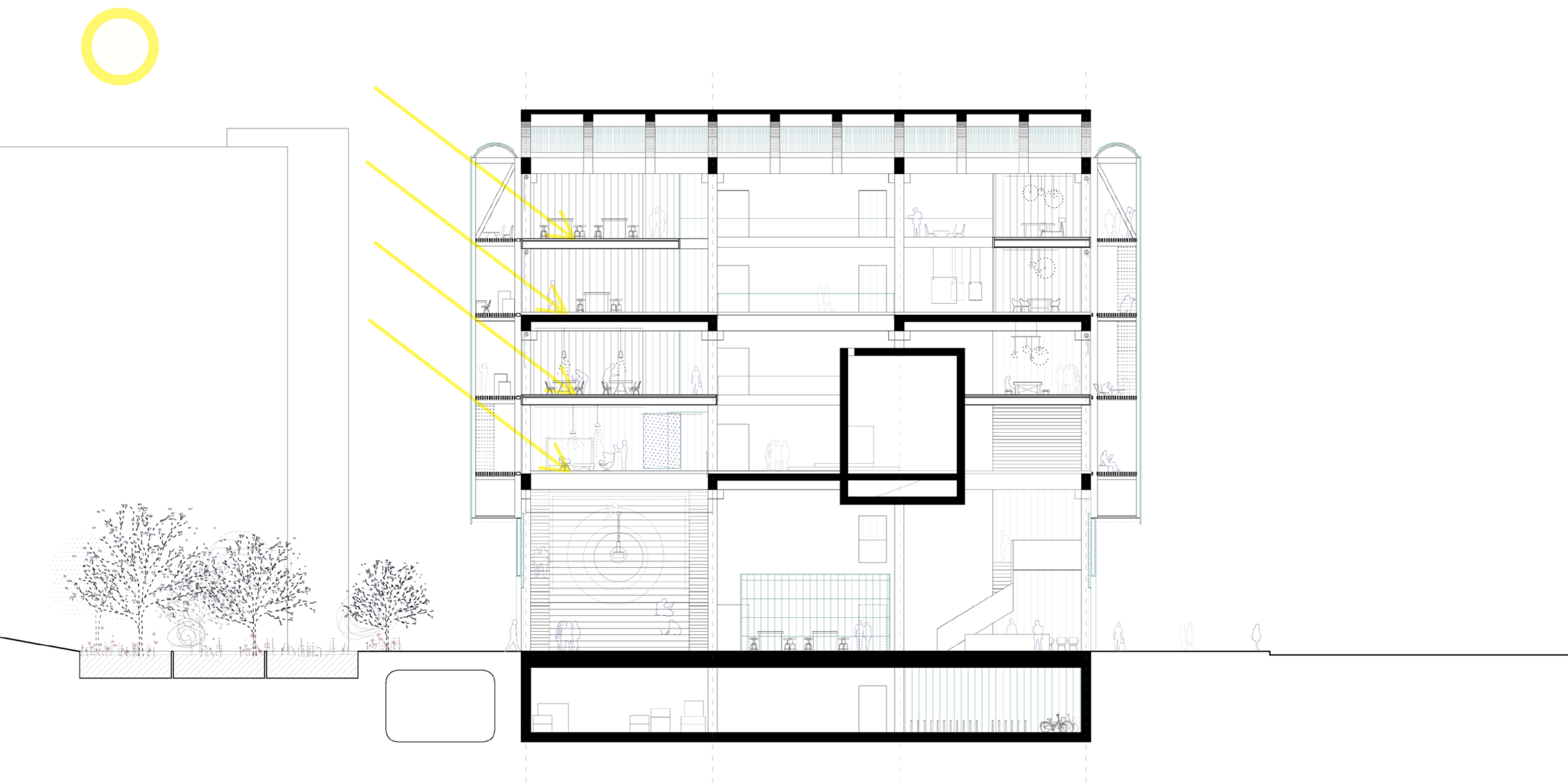
sun exposure of the building

protection from high radiation



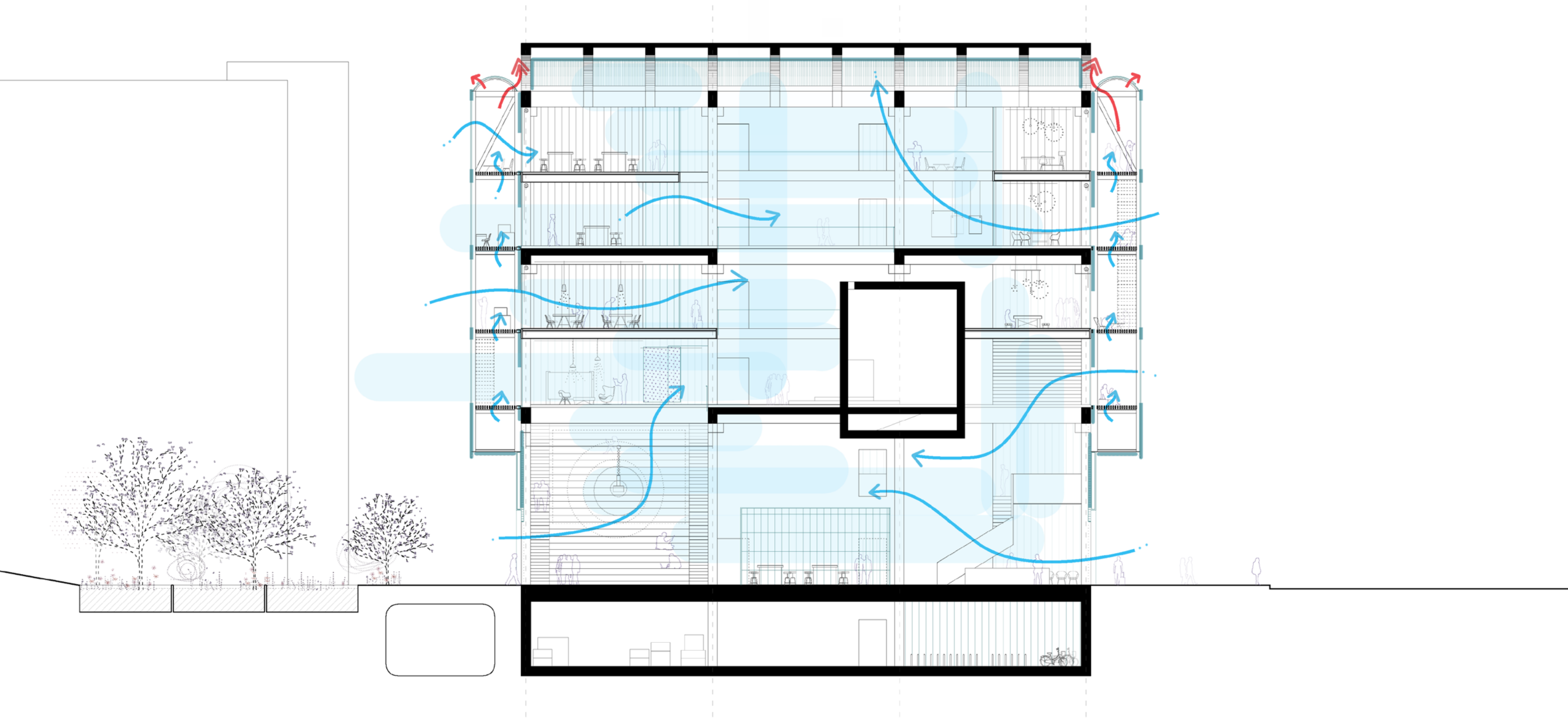
Wide facade - winter

sun exposure of the building



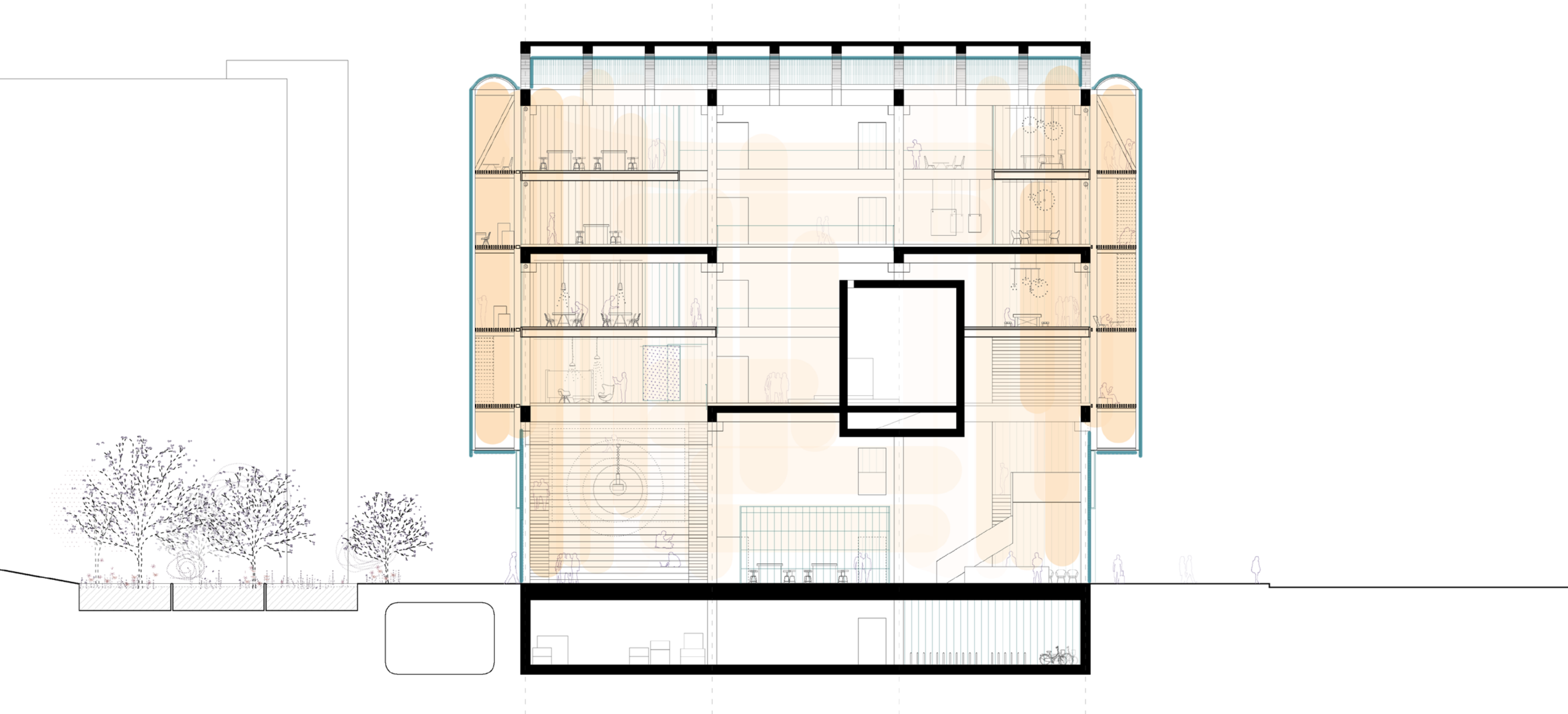
Facade with openable doors - natural cross ventilation

passive cooling system

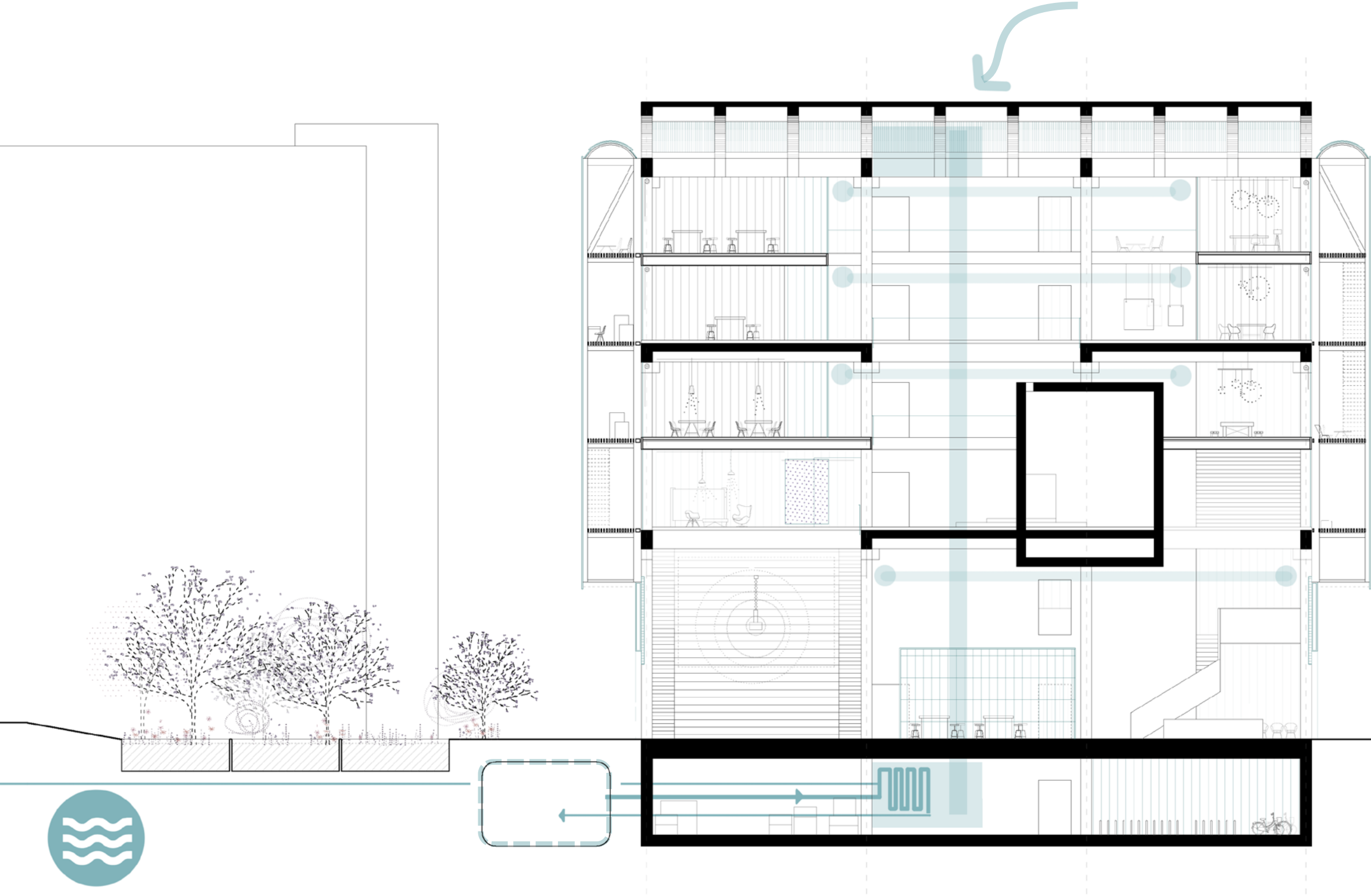


Facade of polycarbonate - green house effect

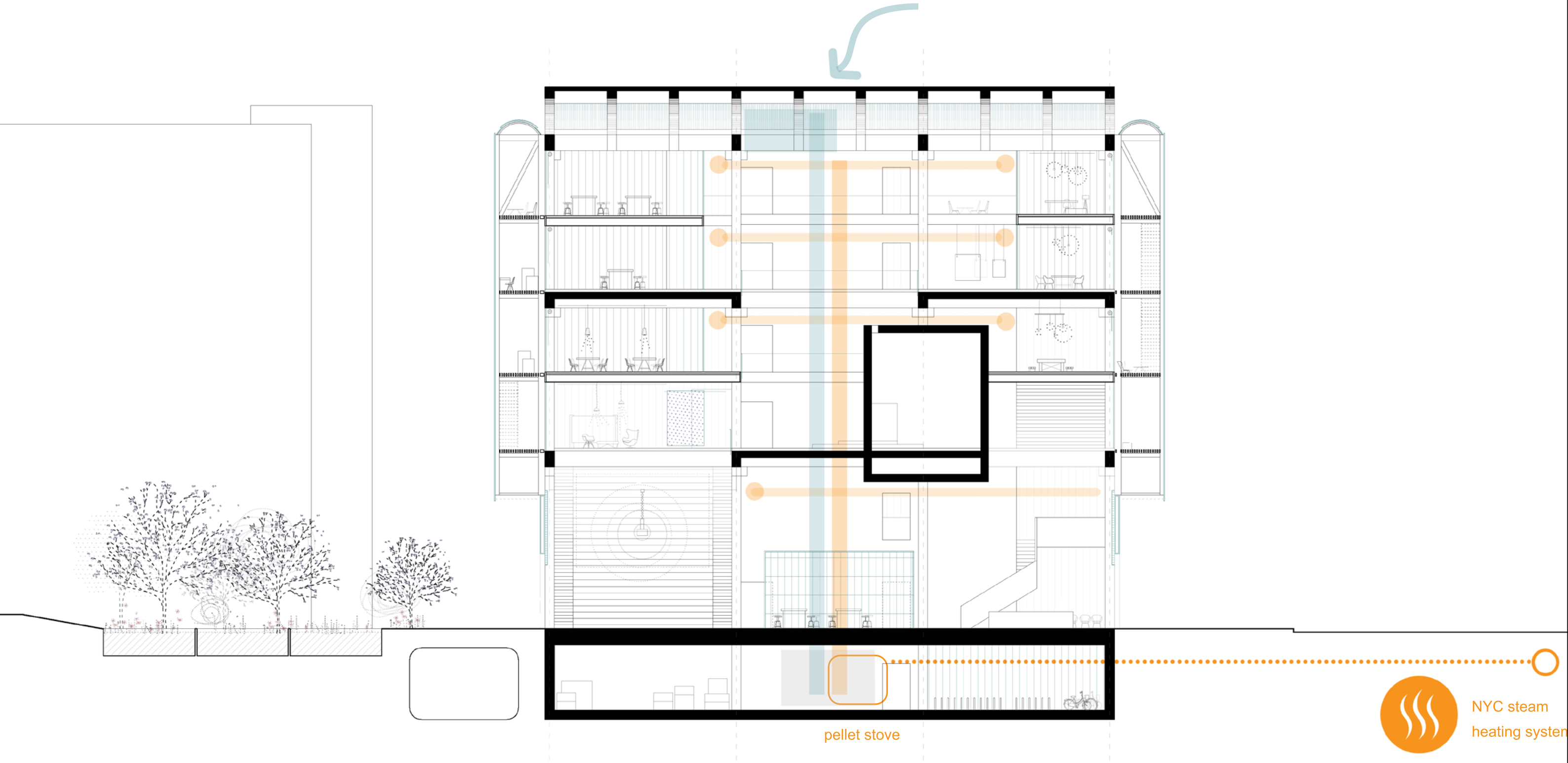
passive heating system



Mechanic cooling system

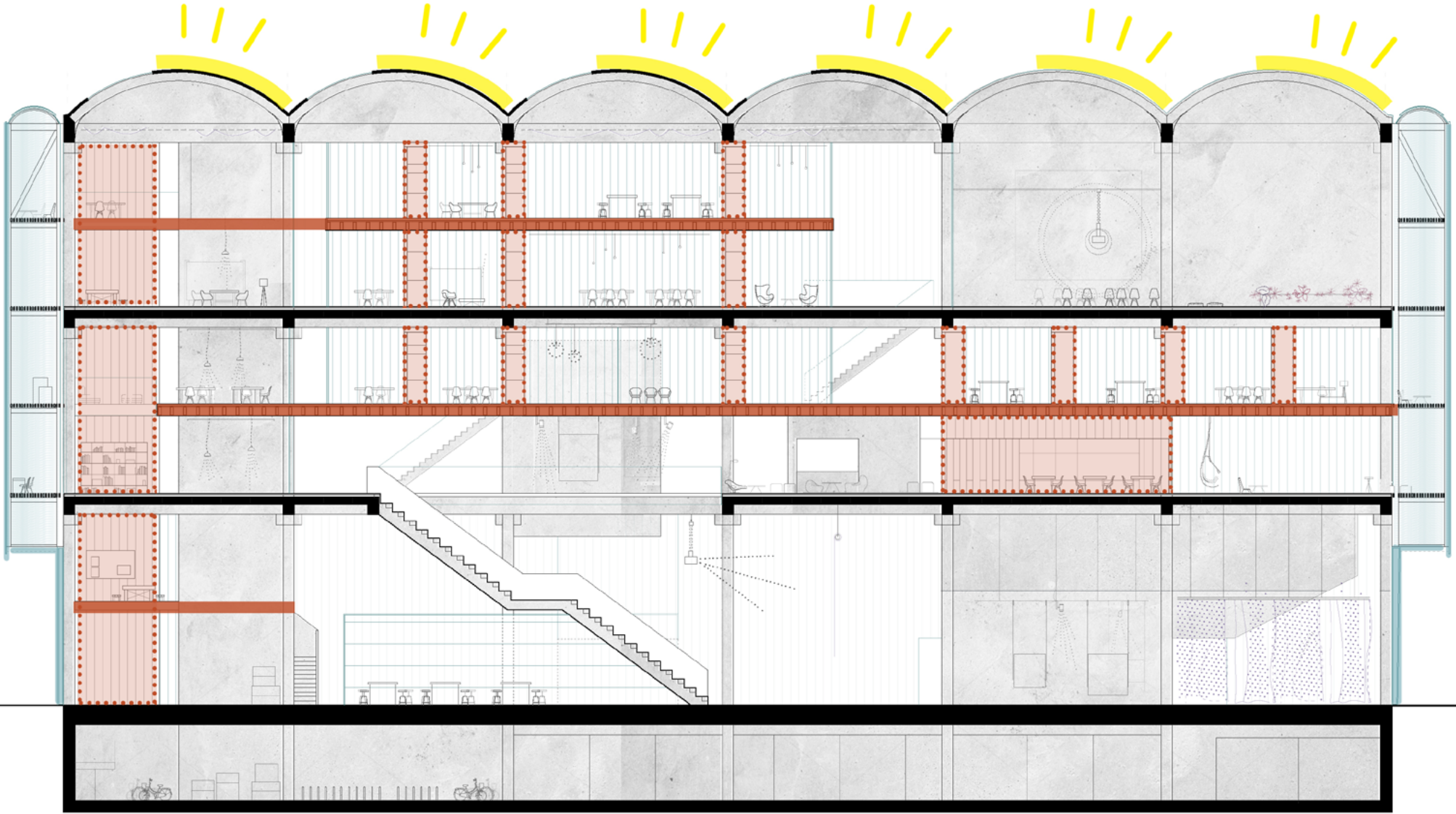
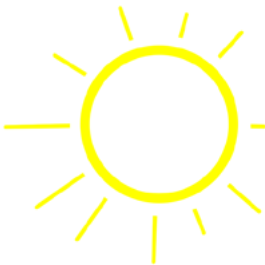


Mechanic heating system



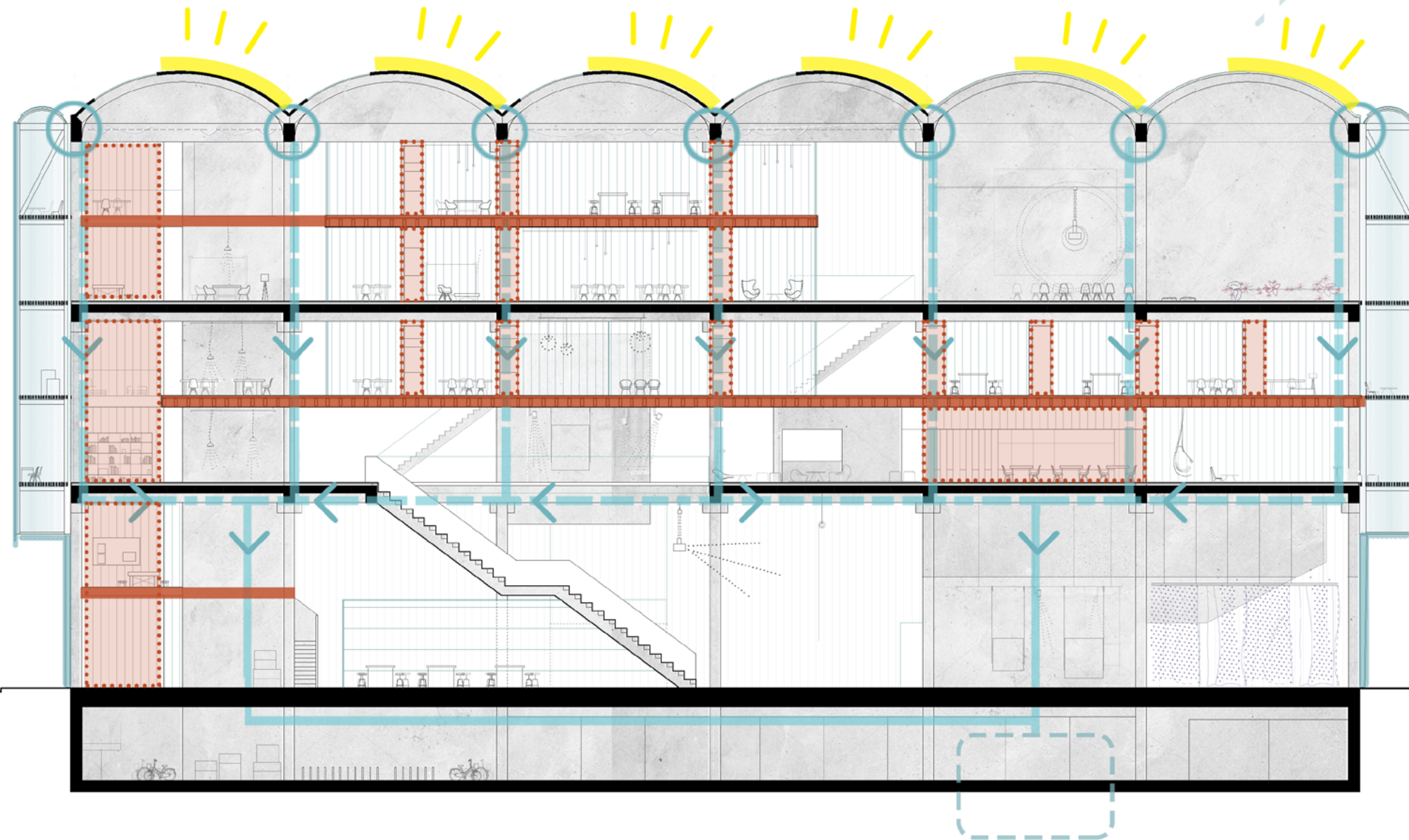
Integration of solar energy in roof

inclination for the panels
rooftop made of zinc sheets with directly integrated photovoltaic panels



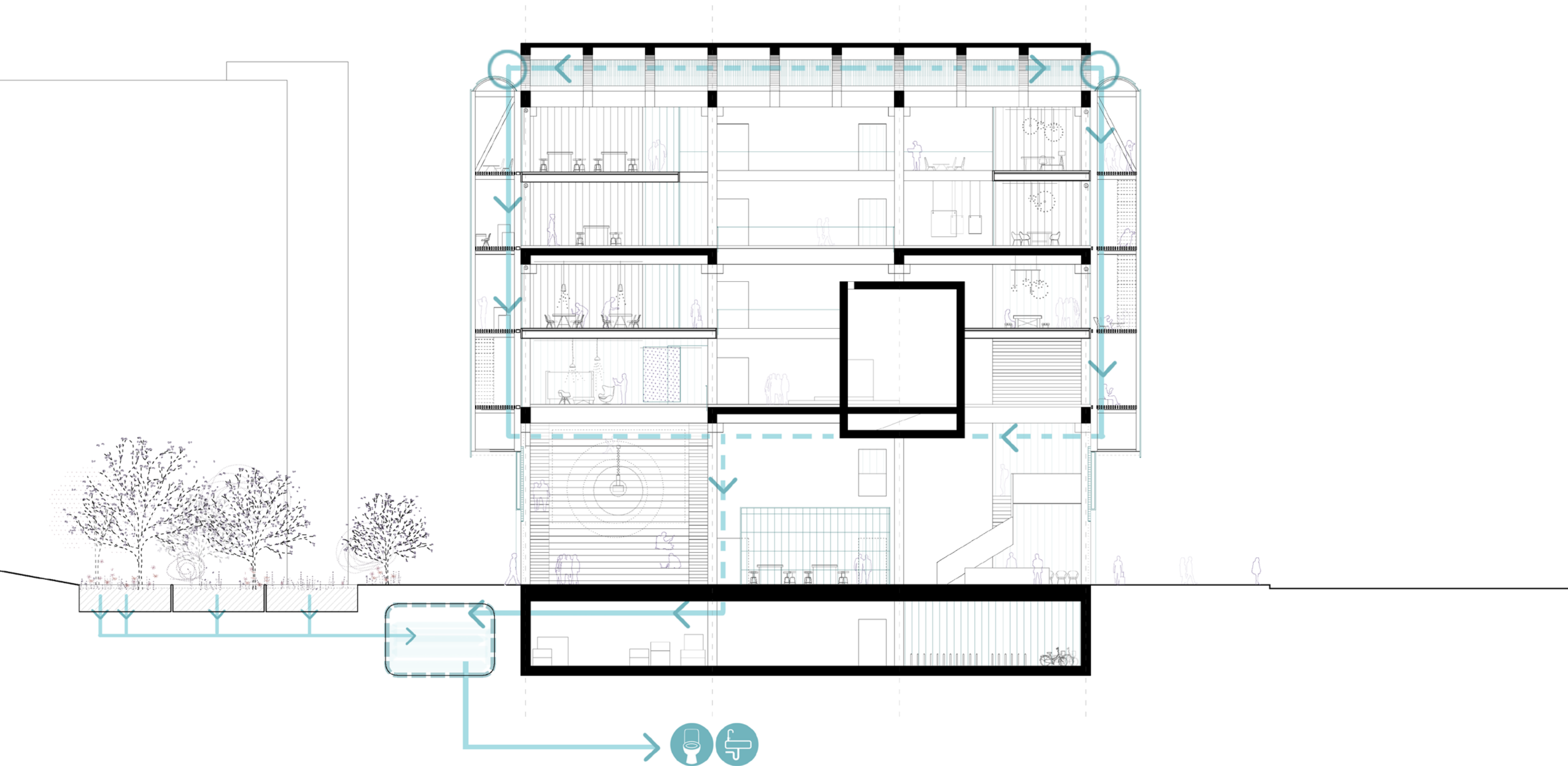
Collection of rainwater

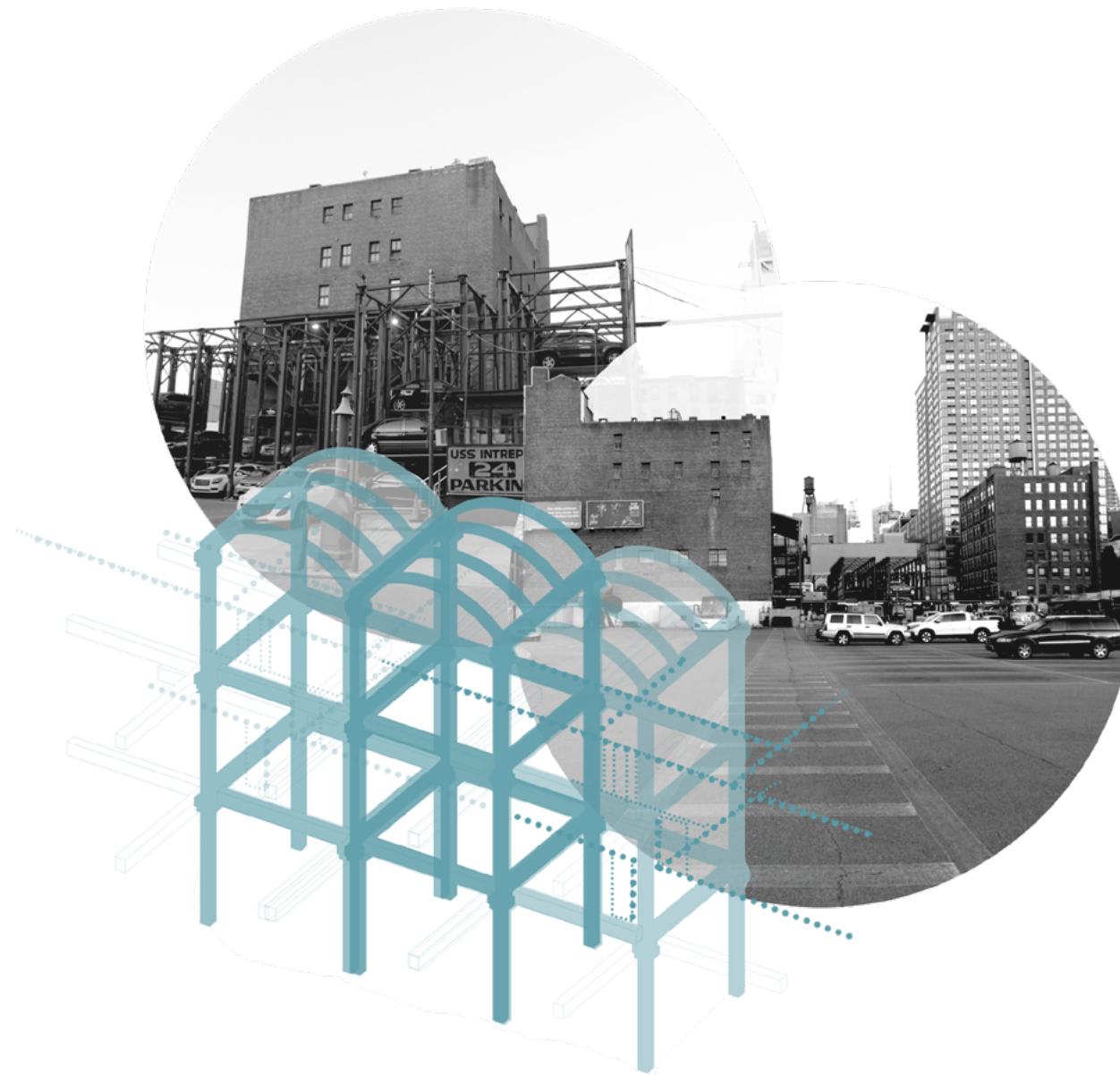
ducts circulation through the facade vertically
rainwater is collected in a deposit in the basement for later reuse after treatment

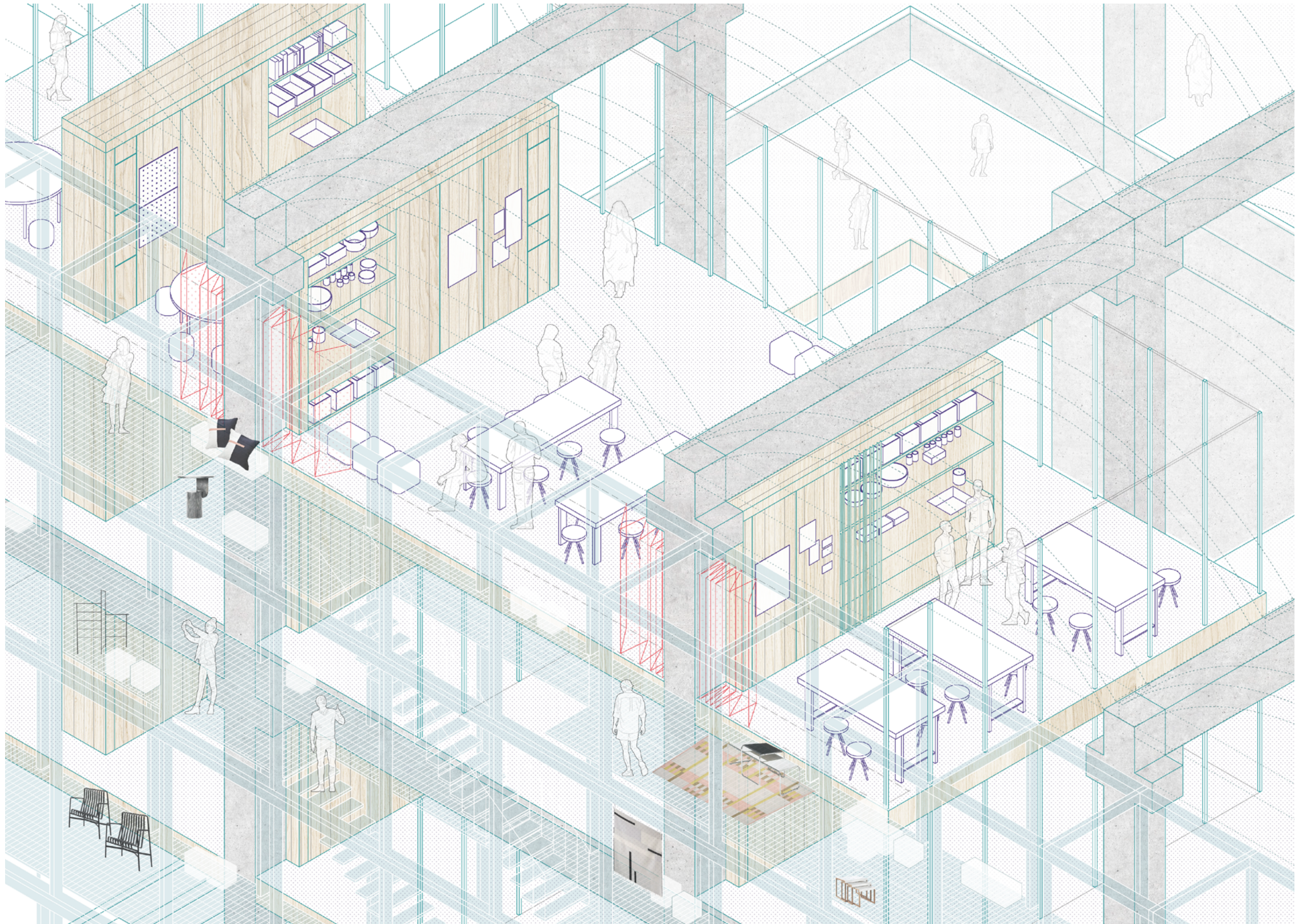


Collection of rainwater

ducts circulation through the facade vertically
rainwater is collected in a deposit in the basement for later reuse after treatment







Thank you !