



# St. Elisabeth Heritage Garden Project

Seunghan Yeum (4572076)



## 0 Analysis

- 0-1. Urban analysis
  - 0-1-1. Zutphen
  - 0-1-2. Traces of city wall
- 0-2. Building analysis
  - 0-2-1. Chrono mapping
  - 0-2-2. Post-modernism

## 1 Problems

- 1-1. Problems
- 1-2. Main problems

## 2 Value assessment

- 2-1. Value matrix conclusion
- 2-2. Key elements
- 2-3. Research question

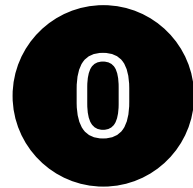
## 3 Programs & Users

- 3-1. Users
- 3-2. Programs

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route





Analysis

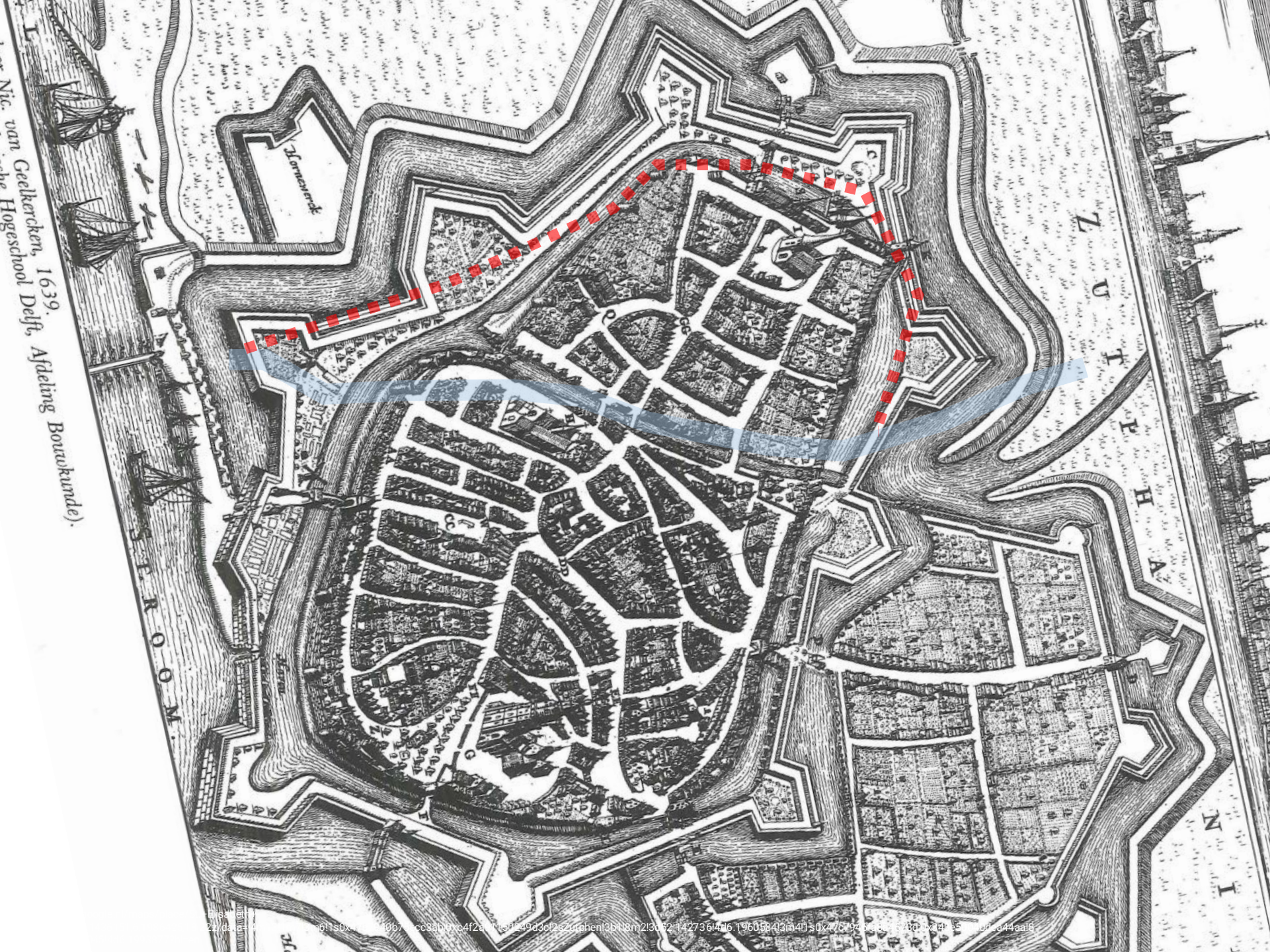
What was there? What is there?

0 Analysis

0-1. Urban analysis  
0-1-1. Zutphen  
0-1-2. Traces of city wall

0-2. Building analysis  
0-2-1. Chrono mapping  
0-2-2. Post-modernism





## 0 Analysis

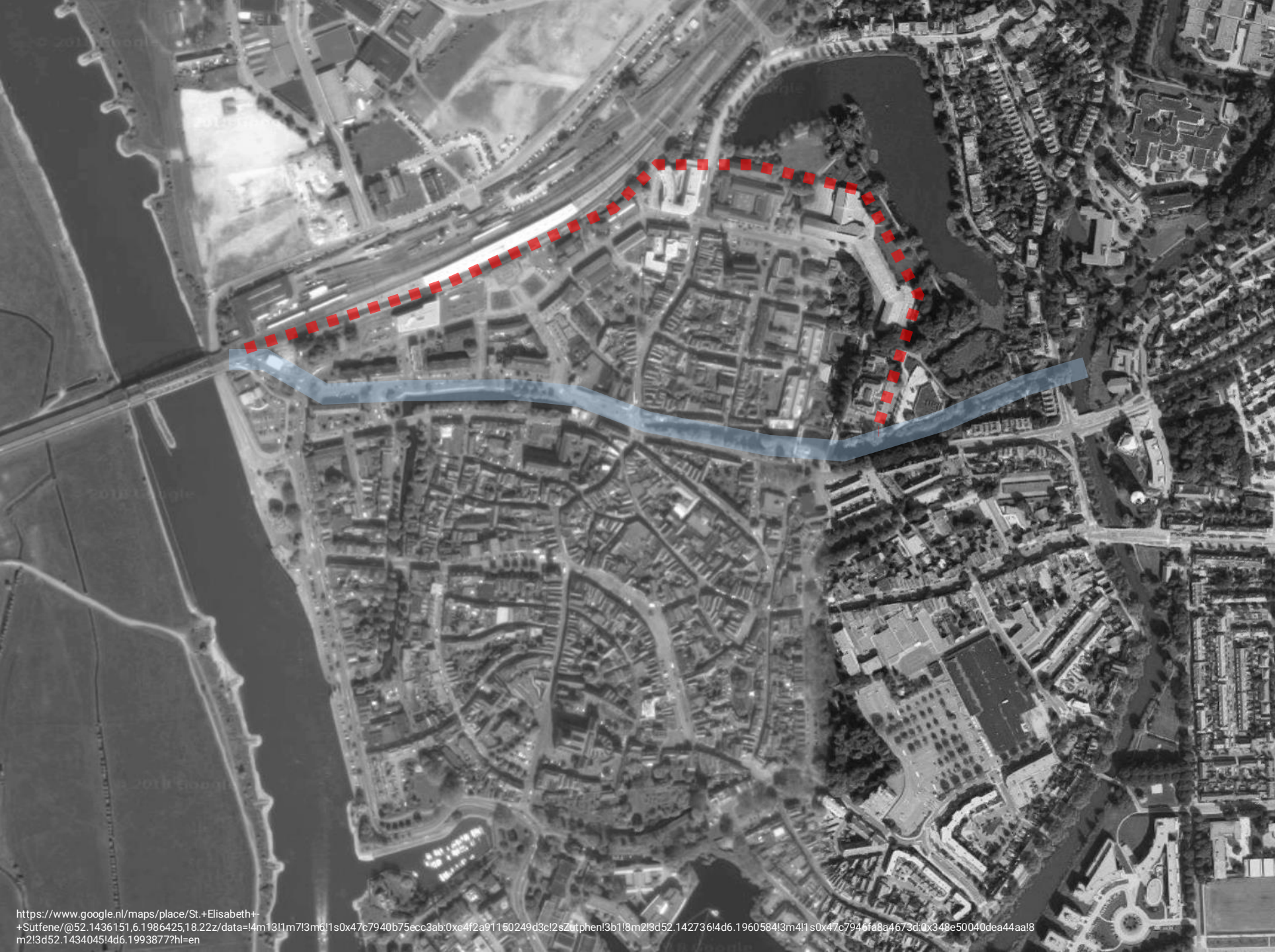
- 0-1. Urban analysis
  - 0-1-1. Zutphen
  - 0-1-2. Traces of city wall

- 0-2. Building analysis
  - 0-2-1. Chrono mapping
  - 0-2-2. Post-modernism

### River city Zutphen

- IJssel river and Berkel river had important role
- Hanseatic town with a long and rich history
- Nieuwstad was established in 1250





## 0 Analysis

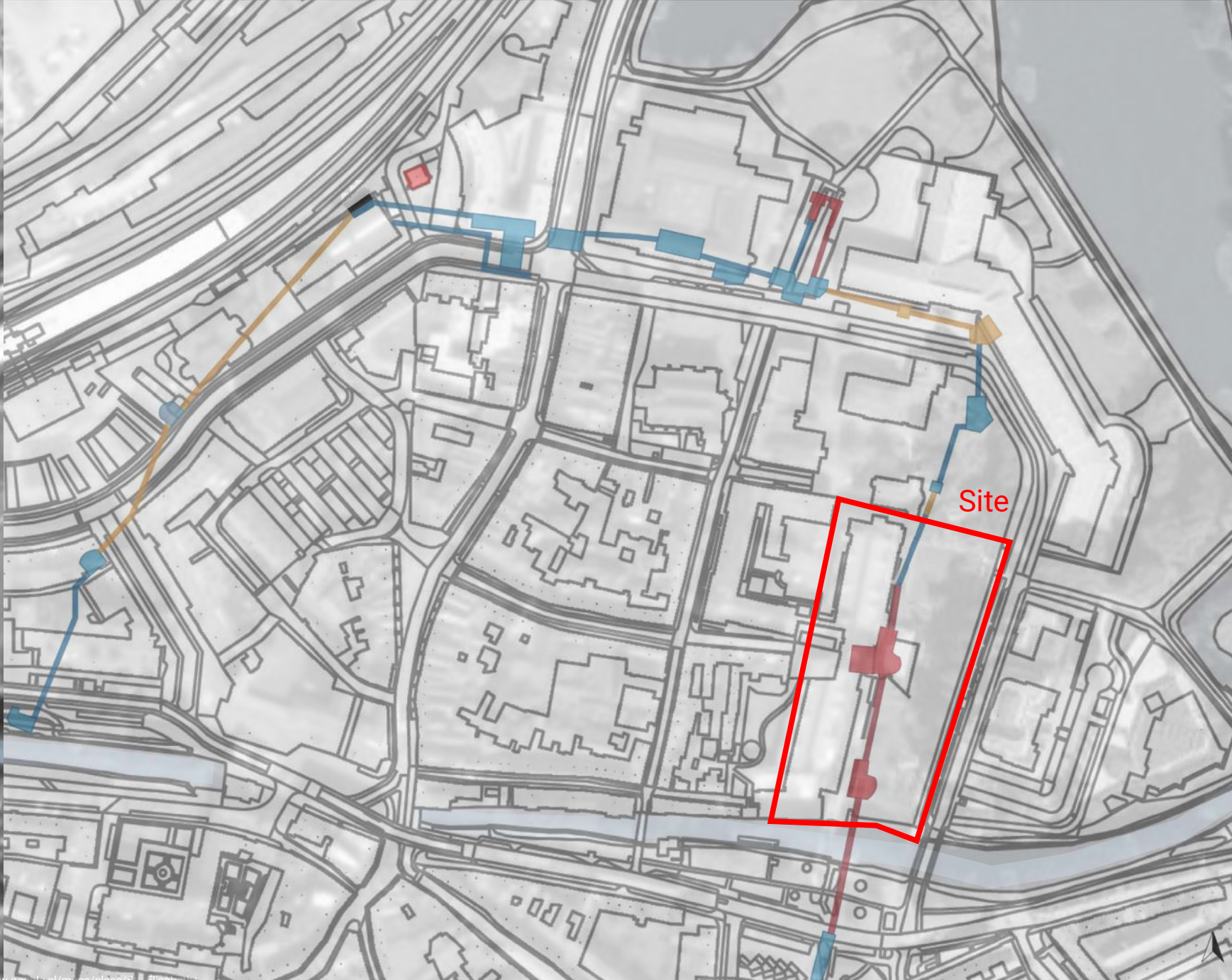
0-1. Urban analysis  
0-1-1. Zutphen  
0-1-2. Traces of city wall

0-2. Building analysis  
0-2-1. Chrono mapping  
0-2-2. Post-modernism

Zutphen\_Nieuwstad

-Above Berkel river





## 0 Analysis

0-1. Urban analysis  
0-1-1. Zutphen  
0-1-2. Traces of city wall

0-2. Building analysis  
0-2-1. Chrono mapping  
0-2-2. Post-modernism

Site: **St. Elisabeth complex**

-Geweldigershoek 39, 7201 NC Zutphen

-  Removed
-  Existing
-  Footprint traces









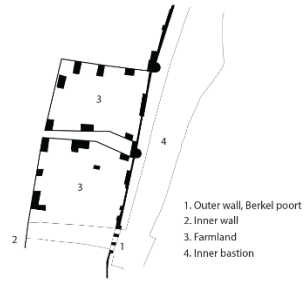
'T KOFCHIP 1996

MARTINET

8

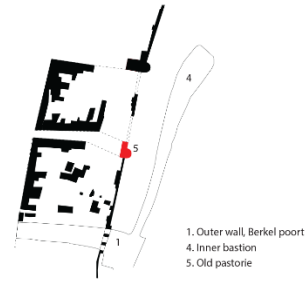






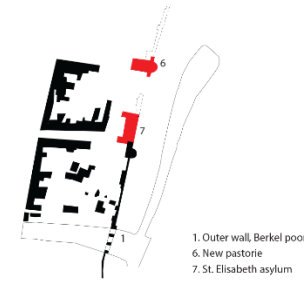
1565-1649

Continuous outer and inner city walls



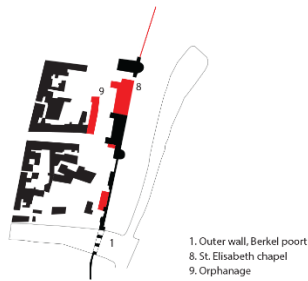
1795-1811

Breaking city walls for cultivating



1863

First construction of St. Elisabeth & Pastorie



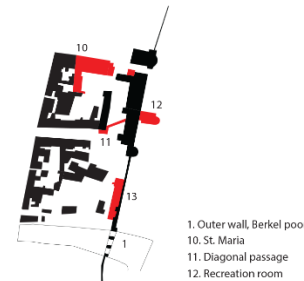
1871-1878

Expansion of St. Elisabeth



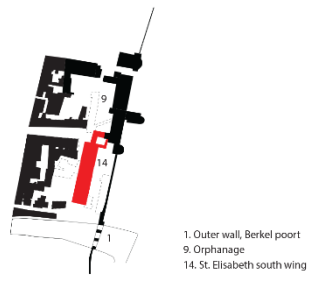
1902-1912

Expansion of Chapel & Rebuilt of Pastorie



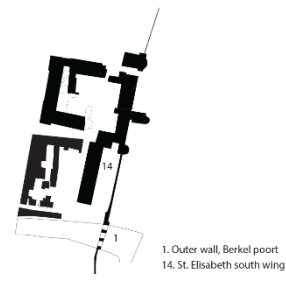
1934-1955

Waterway disappeared



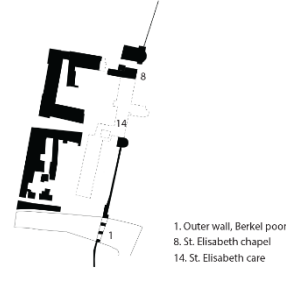
1965-1979

Expansion of St. Elisabeth



1980

Demolishment of St. Elisabeth



1991

Rebuilt of St. Elisabeth



1993-1994

## 0 Analysis

0-1. Urban analysis  
0-1-1. Zutphen  
0-1-2. Traces of city wall

0-2. Building analysis  
0-2-1. Chrono mapping  
0-2-2. Post-modernism

1565-1863

1871-1955

1965-1991

1965-1991

Relation between  
city wall and surrounding



## Site Spirits Collage

Defense, religion, care, green, tour



### 0 Analysis

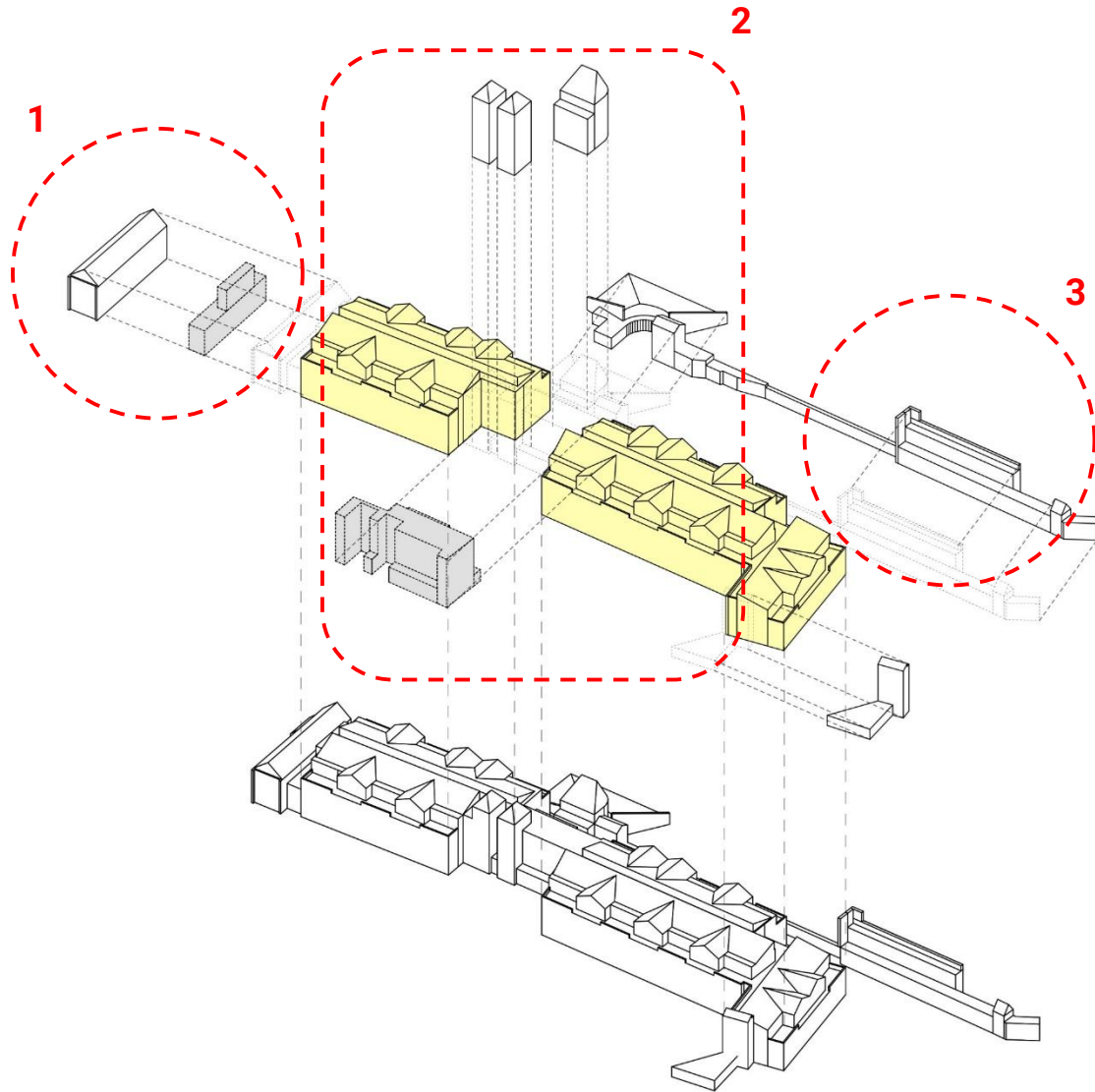
0-1. Urban analysis  
0-1-1. Zutphen  
0-1-2. Traces of city wall

0-2. Building analysis  
**0-2-1. Chrono mapping**  
0-2-2. Post-modernism

### Spirits of site

1. Defense : 1565 ~ 1649
2. Productive green : 1795 ~ 1934
3. Care : 1863 ~ 2018
4. Religion : 1871 ~ 1984
5. Tour : 2015





## 0 Analysis

0-1. Urban analysis  
 0-1-1. Zutphen  
 0-1-2. Traces of city wall

0-2. Building analysis  
 0-2-1. Chrono mapping  
 0-2-2. Post-modernism

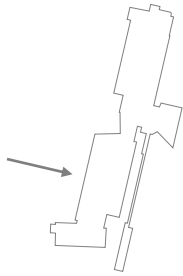
St. Elisabeth

-Two main volumes + fragmental volumes

\*Fragmental volumes

1. Chapel
2. Central lobby including towers
3. Berkelpoort and city wall



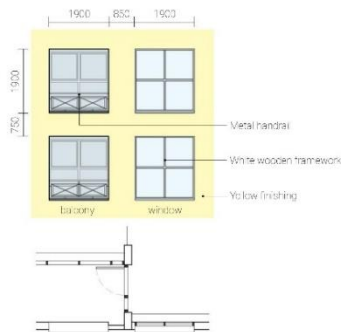


Beige brick      Yellow finishing      White finishing      Brown finishing      Steel plate roof



Blue wooden framework      White wooden framework

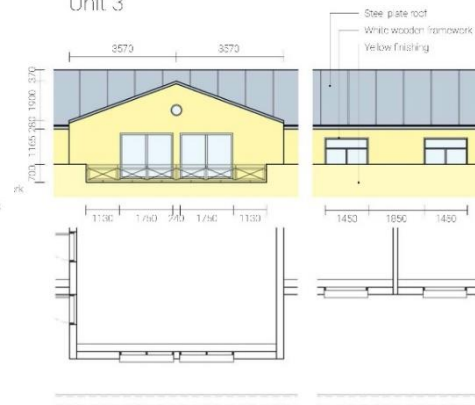
Unit 1



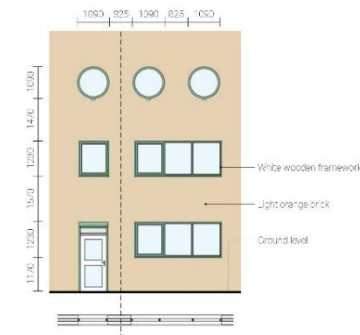
Unit 2



Unit 3



Unit 4



## 0 Analysis

- 0-1. Urban analysis
- 0-1-1. Zutphen
- 0-1-2. Traces of city wall

- 0-2. Building analysis
- 0-2-1. Chrono mapping
- 0-2-2. Post-modernism

Diverse units and materials in skin.

Post-modernism style

-Considering it as a record of time



# 1

Problems

What should be improved?

1 Problems

1-1. Problems

1-2. Main problems





P  
♿

54-LV-DG

P  
♿

18424

Elisabeth

Zone  
No Parking

























A  
53



















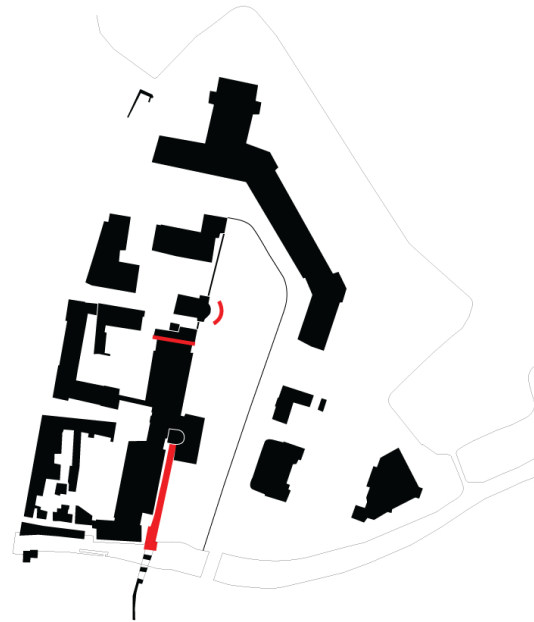






Blocked accessibility

\*Glass passage, fences and river disconnect route



Lost value of heritages

\*Surrounding of heritage is being neglected



Limited use of public green space

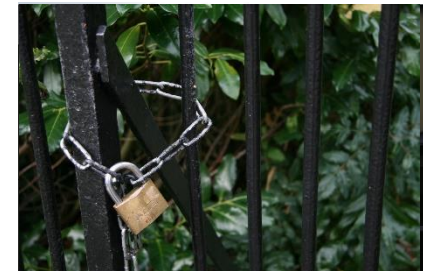
\*Lake park is occupied by high school students  
\* Green space behind of pastorie is out of control

## 1 Problems

1-1. Problems

1-2. Main problems

Urban scale problems.



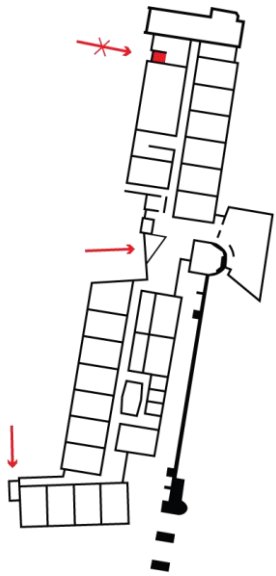




# 1 Problems

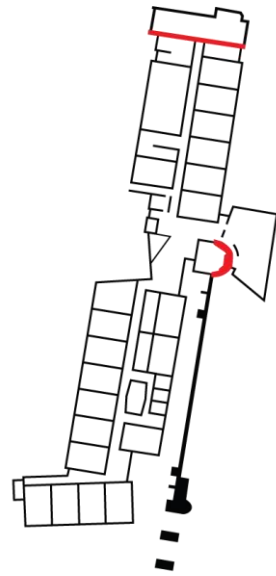
- 1-1. Problems
- 1-2. Main problems

Building scale problems.



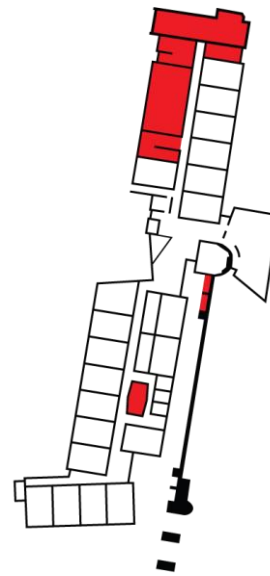
Blocked accessibility

\*North wing entrance is blocked



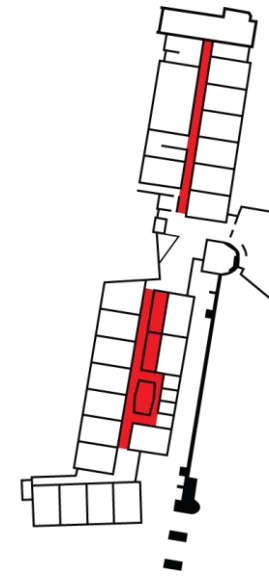
Lost value of heritages

\*Chapel façade and tower are hidden



Broken function

\*Chapel, kitchen and city wall terrace are vacant



Dark and closed space

\*Corridors and offices







St. Elisabeth has separated valuable heritages from the public since 1993, and these cultural assets are not being properly maintained.

**Is cultural property justified by means of private use?**

Heritages are national asset.

Every people have a right to learn history through the heritages and enjoy it.

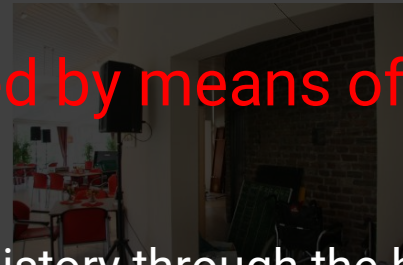
Therefore, **When the circumstances allowed, heritage must be shared in public.**



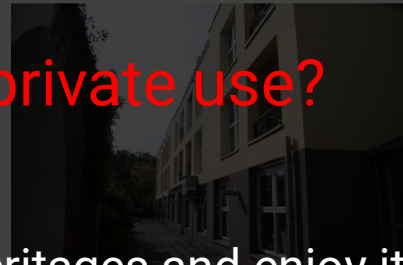
City wall remain (13c)



Chapel façade (1871)



Original tower (13c)



City wall (13c)



Restored city wall



Berkelpoort (13c)

## 1 Problems

1-1. Problems

1-2. Main problems

Lost value of heritages



# 2

Value assessment

## What is valuable?

### 2 Value assessment

- 2-1. Value matrix conclusion
- 2-2. Key elements
- 2-3. Research question



### Value Matrix - St. Elisabeth residence

	Age Value	Historical Value	Intentional Commemorative Value	Unintentional Commemorative Value	Use Value	Social Value	Art Value	Rarity Value	Other Values
<b>Surroundings/ Settings</b>	 The map shows the site's location in the city.	 The surrounding street scene is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.	 The site's location in the city is shown.	 The site's location in the city is shown.	
<b>Site</b>	 The site's location in the city is shown.	 The site's location in the city is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.			
<b>Skin (exterior)</b>	 The site's location in the city is shown.	 The site's location in the city is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.			
<b>Structure</b>	 The site's location in the city is shown.	 The site's location in the city is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.			
<b>Space Plan</b>	 The site's location in the city is shown.	 The site's location in the city is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.
<b>Surfaces (interior)</b>	 The site's location in the city is shown.	 The site's location in the city is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.
<b>Services</b>									
<b>Stuff</b>	 The site's location in the city is shown.		 The site's location in the city is shown.						
<b>Spirit of Place</b>	 The site's location in the city is shown.		 The site's location in the city is shown.		 The site's location in the city is shown.	 The site's location in the city is shown.			

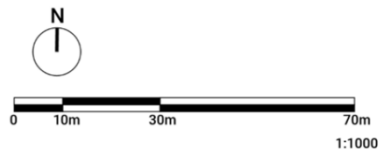
### Value Matrix - Chapel

	Age Value	Historical Value	Intentional Commemorative Value	Unintentional Commemorative Value	Use Value	Social Value	Art Value	Rarity Value	Other Values
<b>Surroundings/ Settings</b>	 The site's location in the city is shown.	 The site's location in the city is shown.			 The site's location in the city is shown.			 The site's location in the city is shown.	 The site's location in the city is shown.
<b>Site</b>	 The site's location in the city is shown.	 The site's location in the city is shown.			 The site's location in the city is shown.				
<b>Skin (exterior)</b>	 The site's location in the city is shown.	 The site's location in the city is shown.			 The site's location in the city is shown.				
<b>Structure</b>	 The site's location in the city is shown.	 The site's location in the city is shown.			 The site's location in the city is shown.				
<b>Space Plan</b>					 The site's location in the city is shown.				
<b>Surfaces (interior)</b>	 The site's location in the city is shown.	 The site's location in the city is shown.			 The site's location in the city is shown.			 The site's location in the city is shown.	 The site's location in the city is shown.
<b>Services</b>								 The site's location in the city is shown.	
<b>Stuff</b>								 The site's location in the city is shown.	 The site's location in the city is shown.
<b>Spirit of Place</b>	 The site's location in the city is shown.				 The site's location in the city is shown.				

## 2 Value assessment

- 2-1. Value matrix conclusion
- 2-2. Key elements
- 2-3. Research question





Pastorie has high age and historical value  
\_High value



Parking lot at the entrance has use value.  
\_Indifferent value



North front garden has medium social value.  
\_Medium value



Luther's courtyard (1850) has social and historic value.  
\_High value



South front garden has medium social value.  
\_Medium value



Parking lot at the entrance has use value.  
\_Indifferent value



Berkel river garden has medium social value.  
\_Medium value



Berkel river has historical value. Furthurmore boat tour adds use value here.  
\_High value

- High value
- Medium value
- Indifferent value
- Negative impact



The proximity of trees to the Pastorie  
\_Indifferent value



Foundation of the city wall behind the pastorie  
\_High value



Connection wall to Pastorie (1871)  
\_High value



The Oude Watergracht has made space for a back garden since 1930, which functioned as a resting place for the residents.  
\_Medium value



Space between city wall and building has a high rarity value  
\_high value

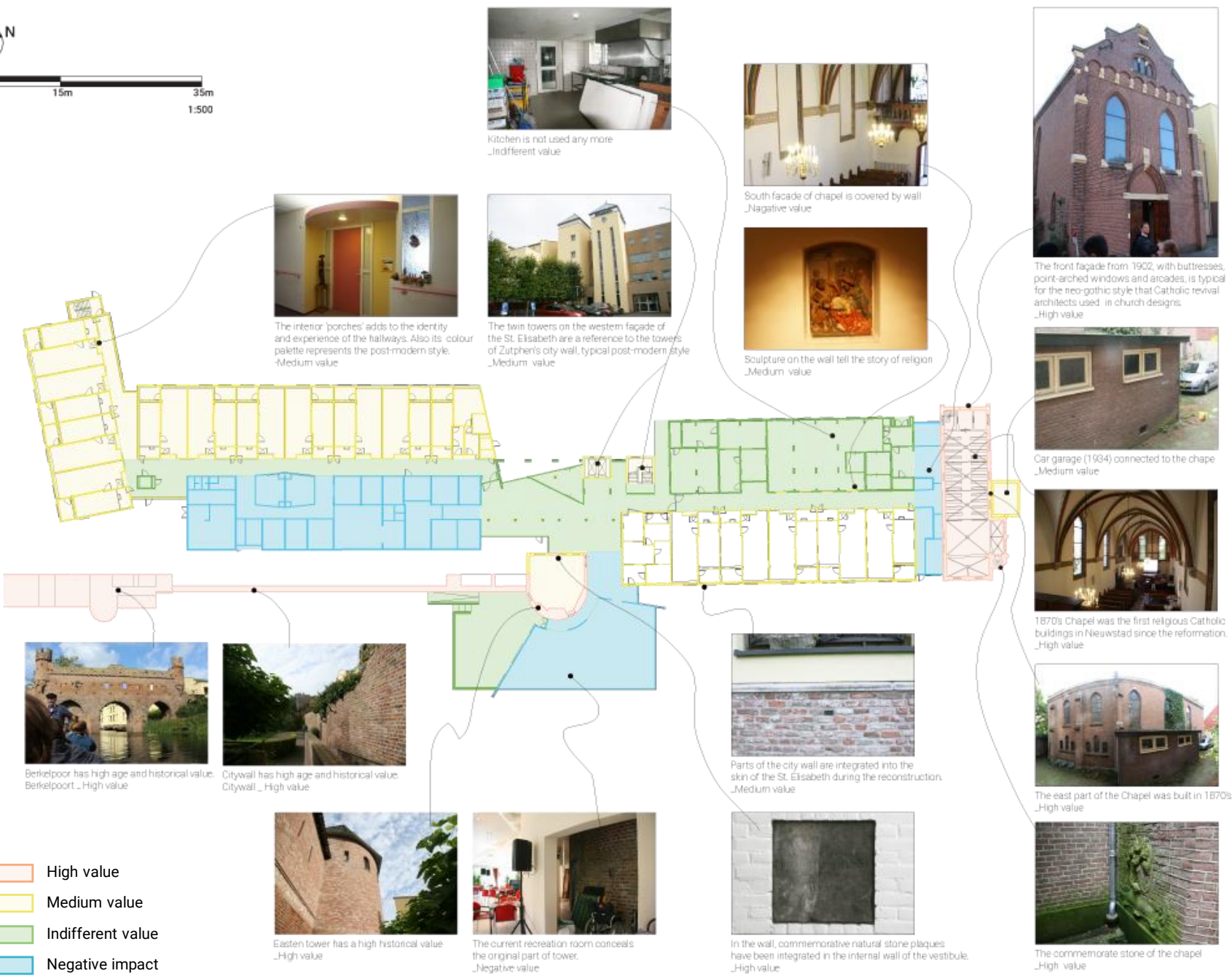
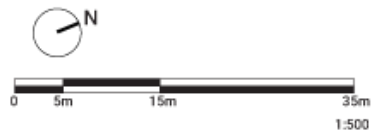
## 2 Value assessment

2-1. Value matrix conclusion

2-2. Key elements

2-3. Research question





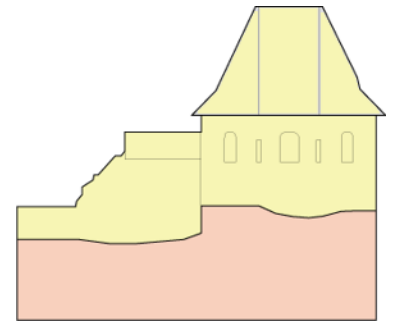
- High value
- Medium value
- Indifferent value
- Negative impact



**2 Value assessment**

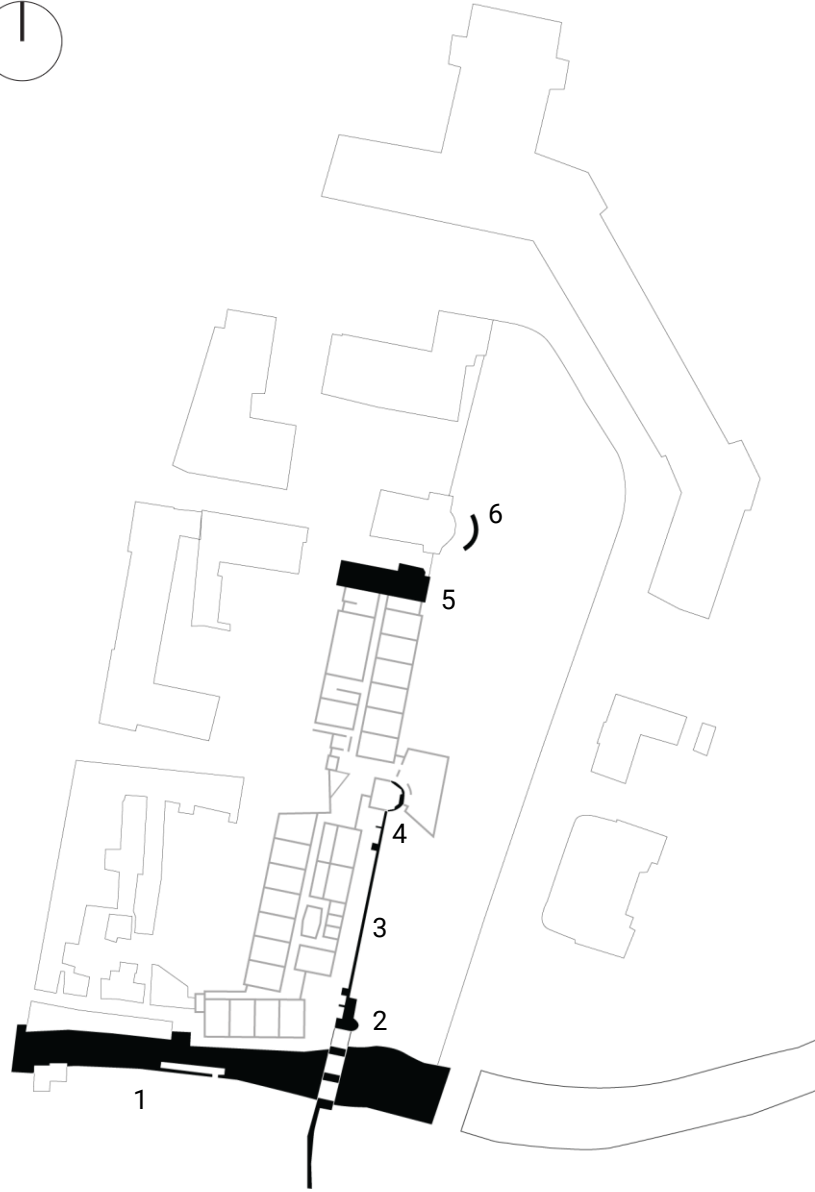
2-1. Value matrix conclusion  
2-2. Key elements  
2-3. Research question

Value assessment of wall tower

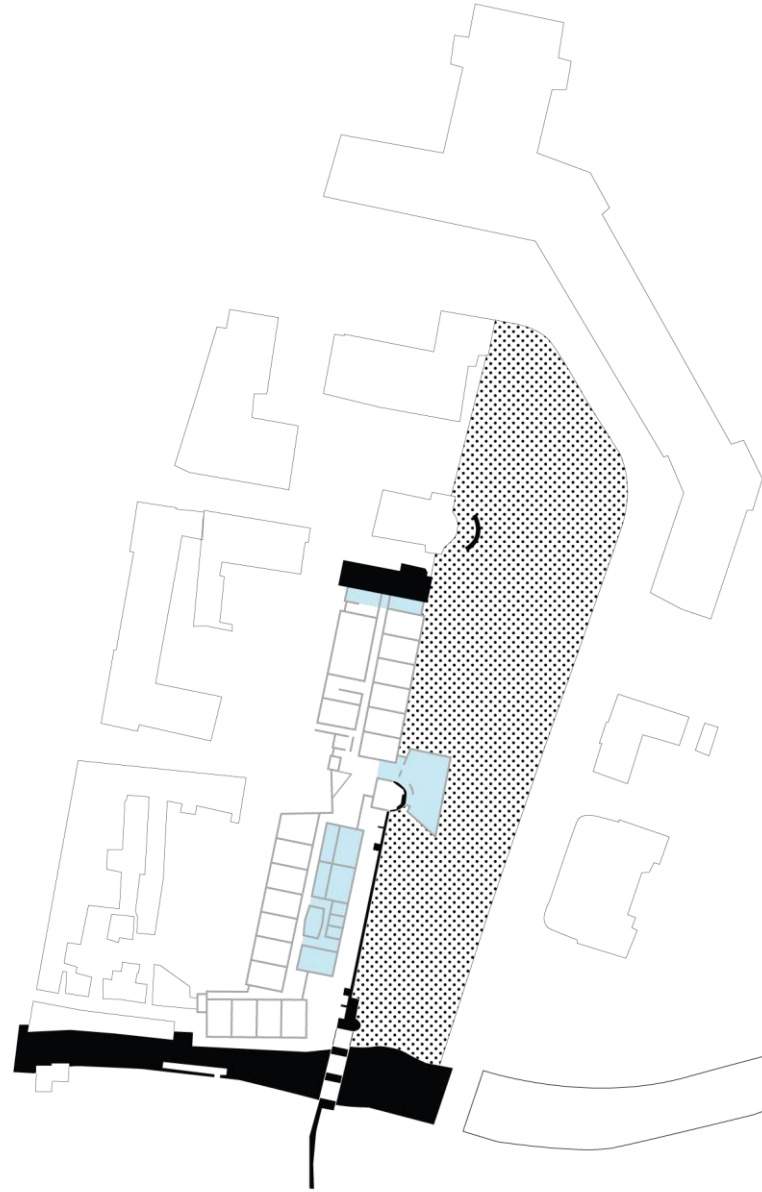


High value : original part of tower  
Medium value : Restored part of tower





**6 Key elements** with high value




**Backyard** has a future opportunity to connect key elements

## 2 Value assessment

2-1. Value matrix conclusion

2-2. **Key elements**

2-3. Research question

 Negative impact



Q

**How to connect St. backyard to surrounding to activate Nieuwstad, and to improve environment of key elements and residents?**

- Which programs should be selected to attract people?
- How to protect privacy of residents while make backyard in public?

2 Value assessment

- 2-1. Value matrix conclusion
- 2-2. Key elements
- 2-3. Research question



# 3

Programs & Users

## How to attract people?

3 Programs & Users

3-1. Users

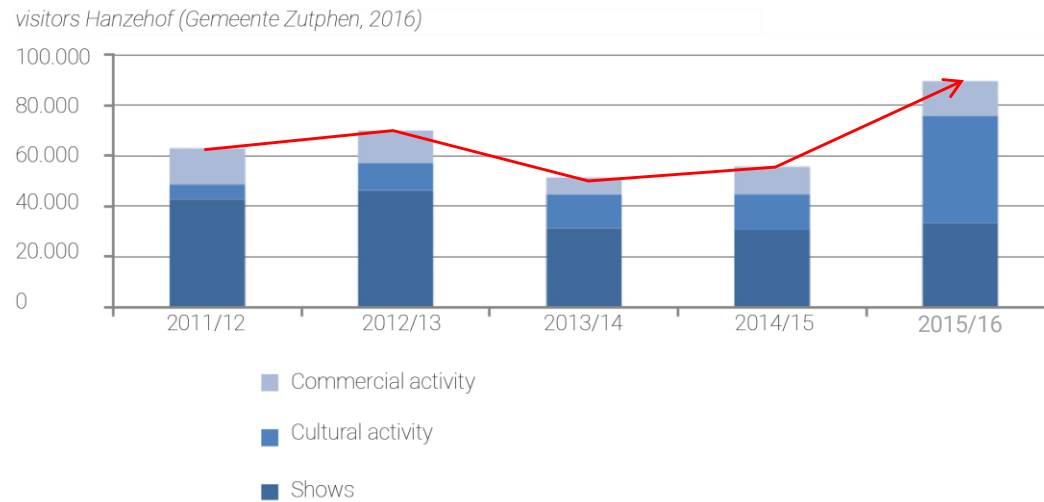
3-2. Programs



### 3 Programs & Users

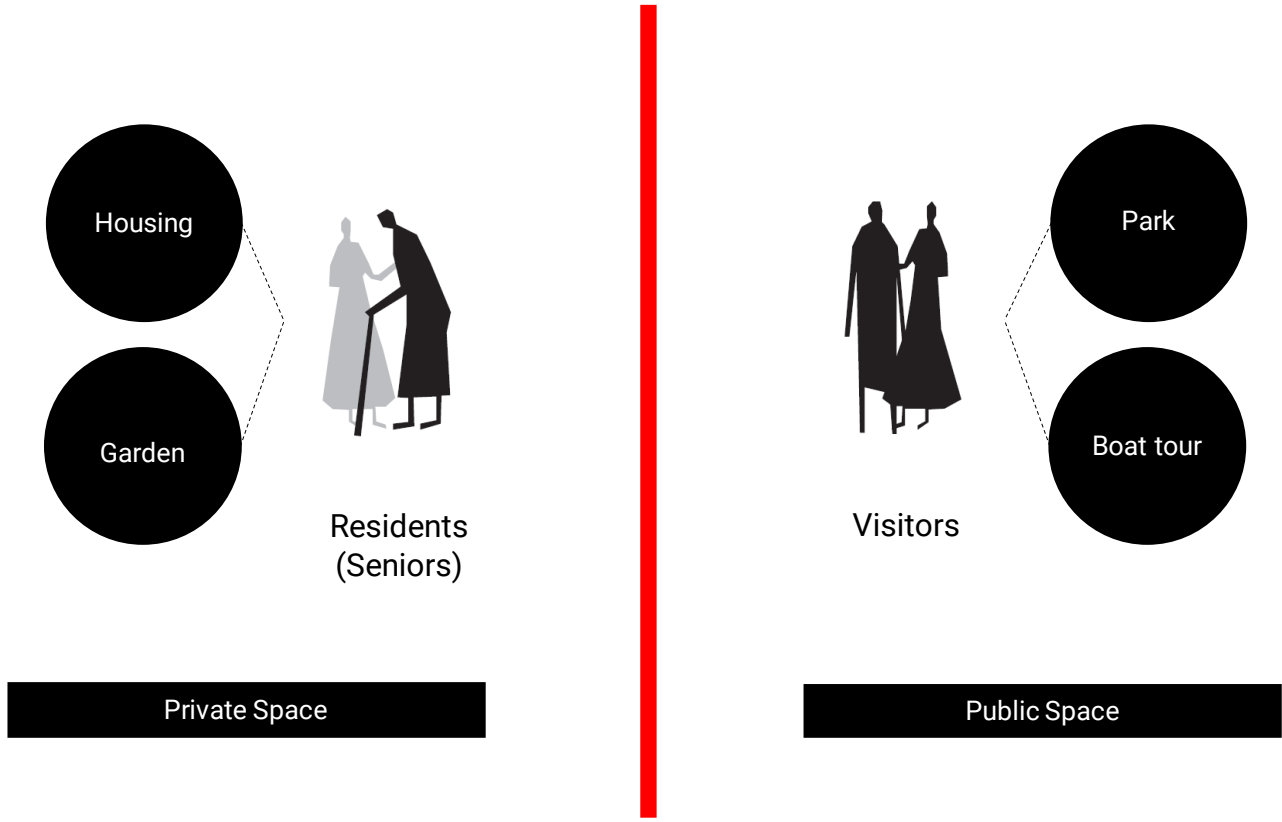
3-1. Users

3-2. Programs



The amount of visitors increased strongly in the year 2015/2016.  
Especially the **cultural activities** increased.





**Current** situation : Closed and disconnected relationship

3 Programs & Users

3-1. Users

3-2. Programs

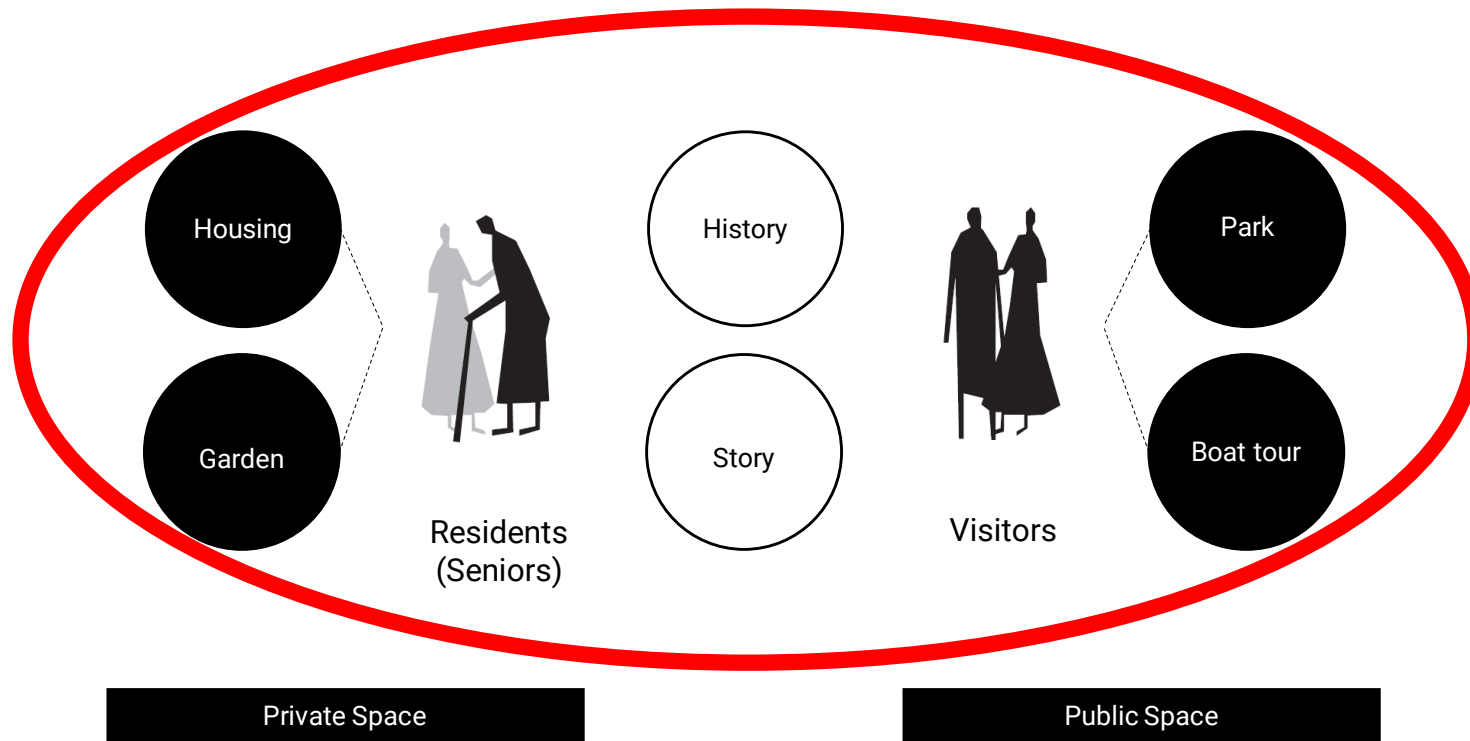
Main users of project.



3 Programs & Users

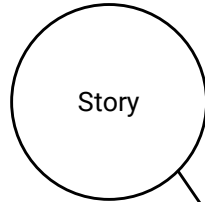
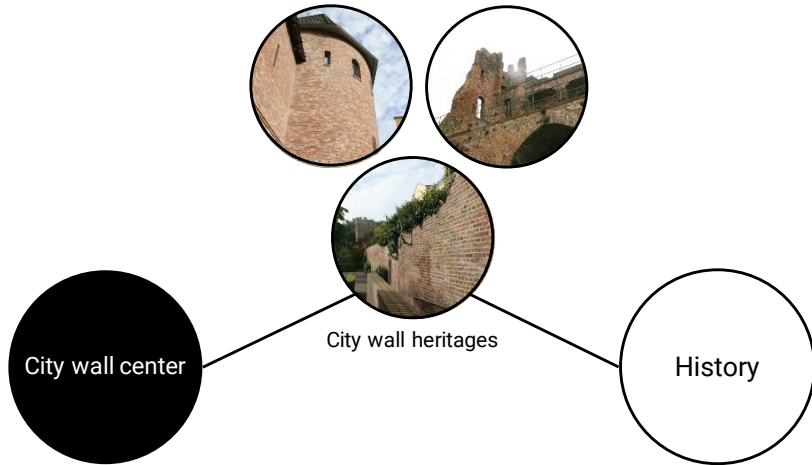
3-1. Users

3-2. Programs



**Future** situation : Open, Connected relationship





City wall center

1. The **only survived city wall** in the Nieuwstad.
2. **Absence of history information center** for visitors
3. **Good accessibility** from the center of downtown.

### 3 Programs & Users

3-1. Users

3-2. Programs

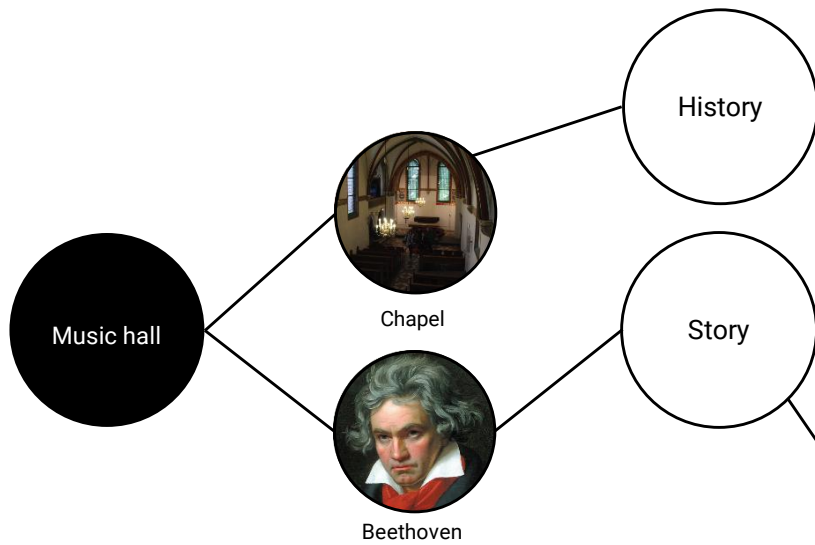
#### Cultural programs

Case study : Hedmark museum, Norway



<https://artchist.wordpress.com/2016/09/24/hedmark-museum-in-hamar-by-sverre-fehn/hedmark-museum-in-hamar-by-sverre-fehn-4/>





**Music hall**

1. Chapel has an **optimal space** for music performance.
2. Activate **Klein Vaticaan** after 3pm through afterschool music program.
3. A positive contribution to **'Beethoven music festival'**

### 3 Programs & Users

3-1. Users

3-2. Programs

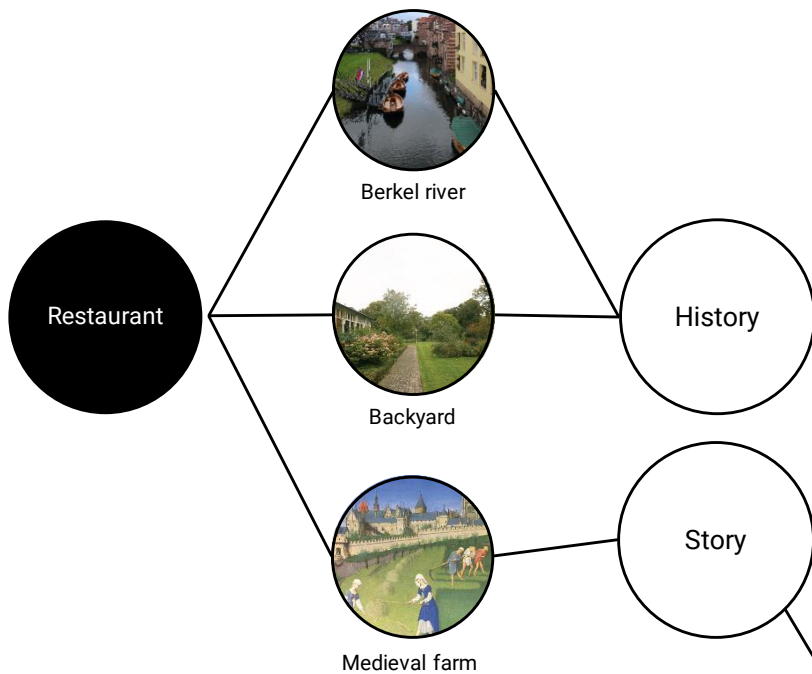
#### Cultural programs

Case study : Sage Chapel, Cornell University



<https://music.cornell.edu/performance-spaces>





- Restaurant
1. Water way from Berkel river existed in the backyard until 1912
  2. Backyard used to be a medieval farm over 117 years (1795-1912)
  3. Provide nutritious and healthy diet to residents and local people.
  4. It contribute sustainability of the city through urban farm.

### 3 Programs & Users

3-1. Users

3-2. Programs

#### Cultural programs

Case study : Villa Augustus, The Netherlands

Restaurant Area : 15.40m \* 39.79n

Vegetable garden : 57m \* 84m

Restaurant area \* 8 = Vegetable garden

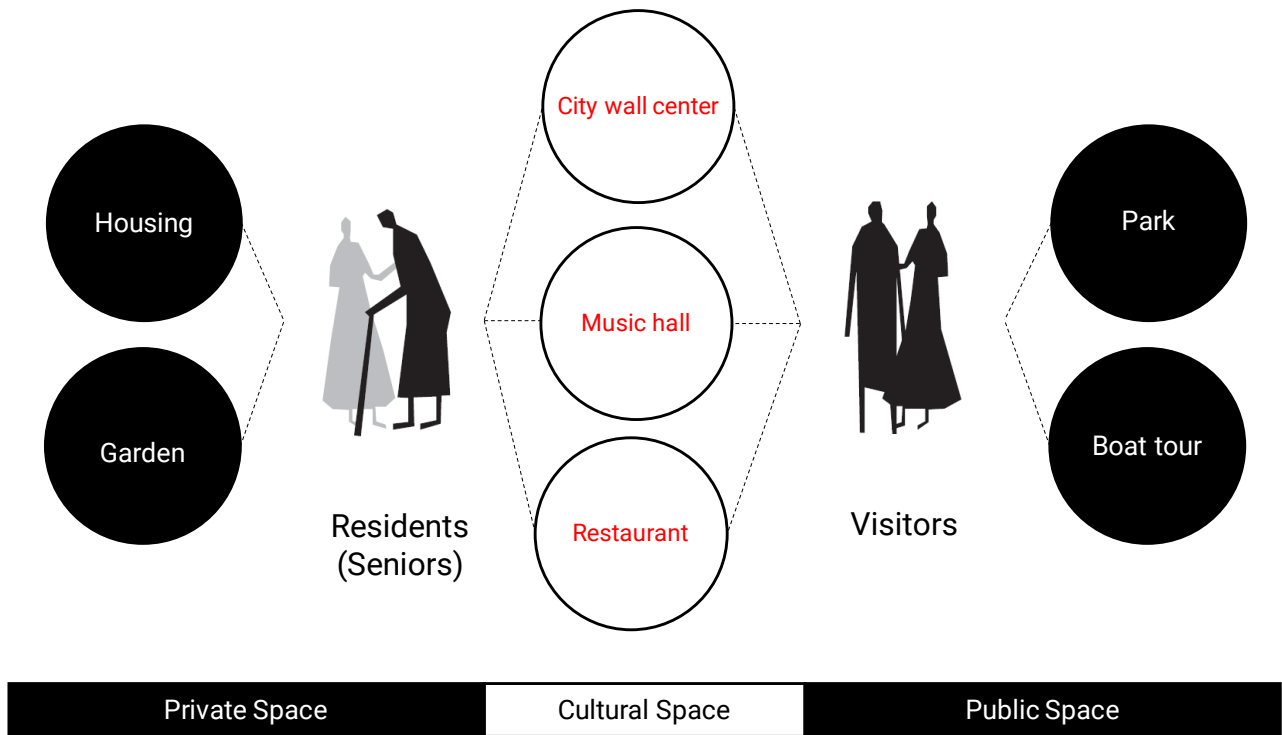


<https://www.deinrichterij.nl/villa-augustus-dordrecht>



[https://www.tripadvisor.com/LocationPhotoDirectLink-g188627-d1828608-i175881564-Villa\\_Augustus-Dordrecht\\_South\\_Holland\\_Province.html](https://www.tripadvisor.com/LocationPhotoDirectLink-g188627-d1828608-i175881564-Villa_Augustus-Dordrecht_South_Holland_Province.html)





3 Programs & Users

3-1. Users

3-2. Programs

# 4

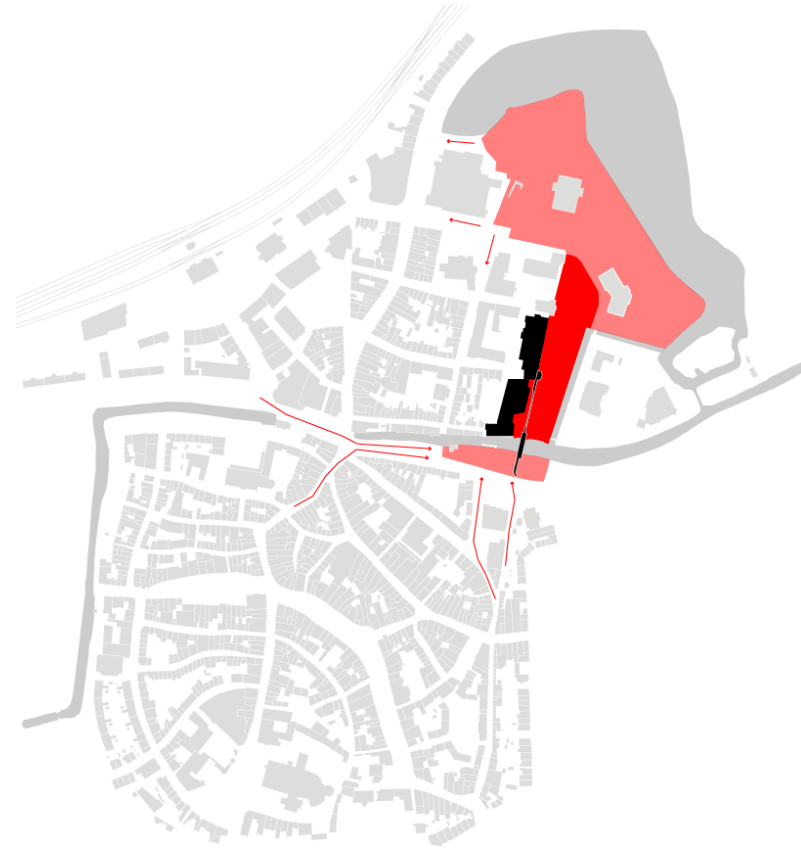
Design process

## How to design?

### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route





## Heritage garden

Providing rich heritage space experience by sharing St. Elisabeth backyard with visitors to activate inert atmosphere of Nieuwstad.

### 4 Design

#### 4-1. Concept

4-2. Design ambition

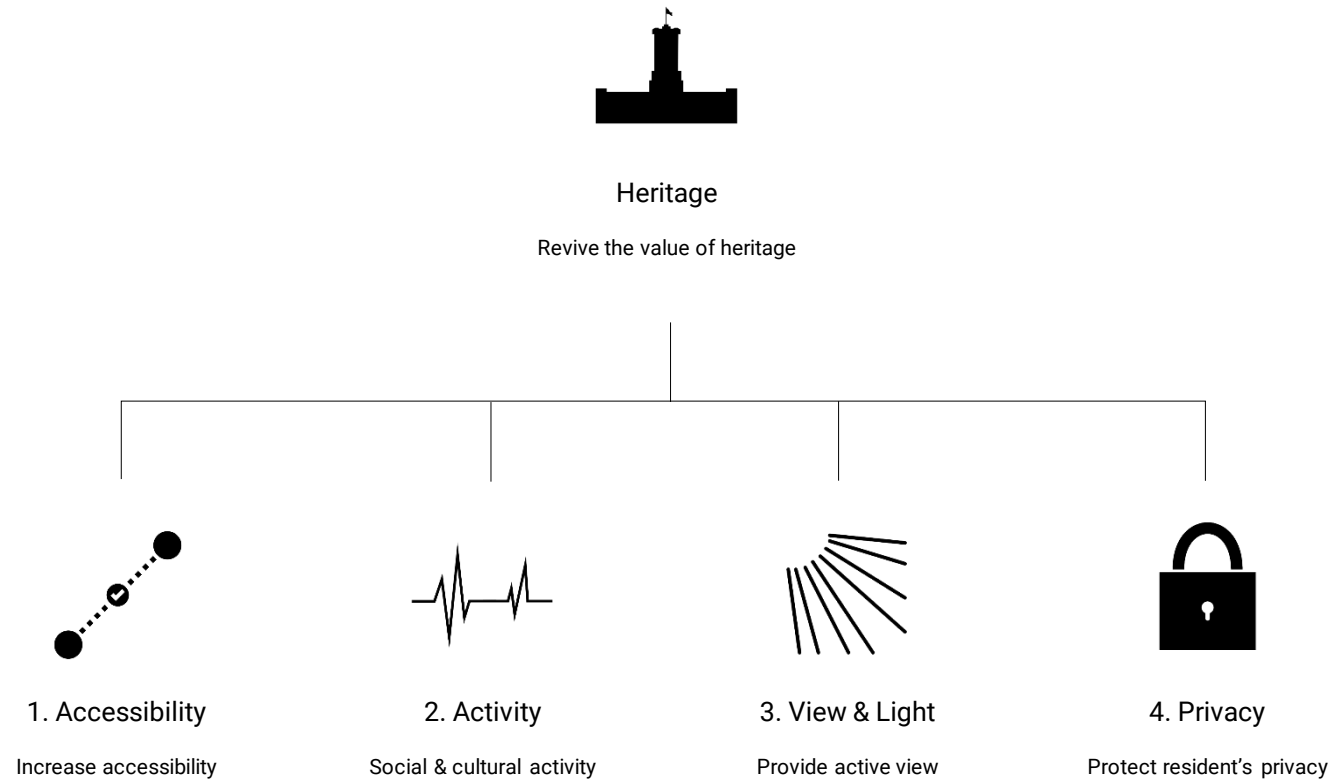
4-3. Design process

4-4. Design strategy

4-5. Master plan

4-6. Visitor's route

4-7. Resident's route

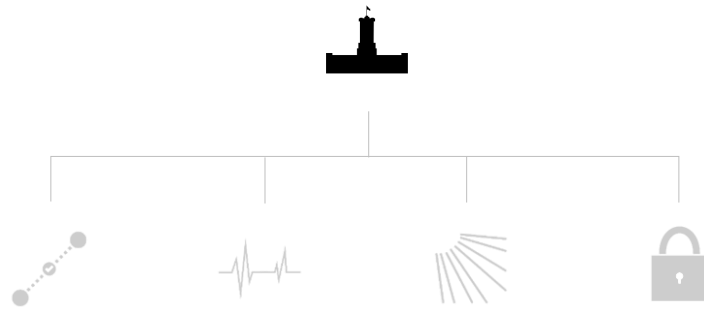
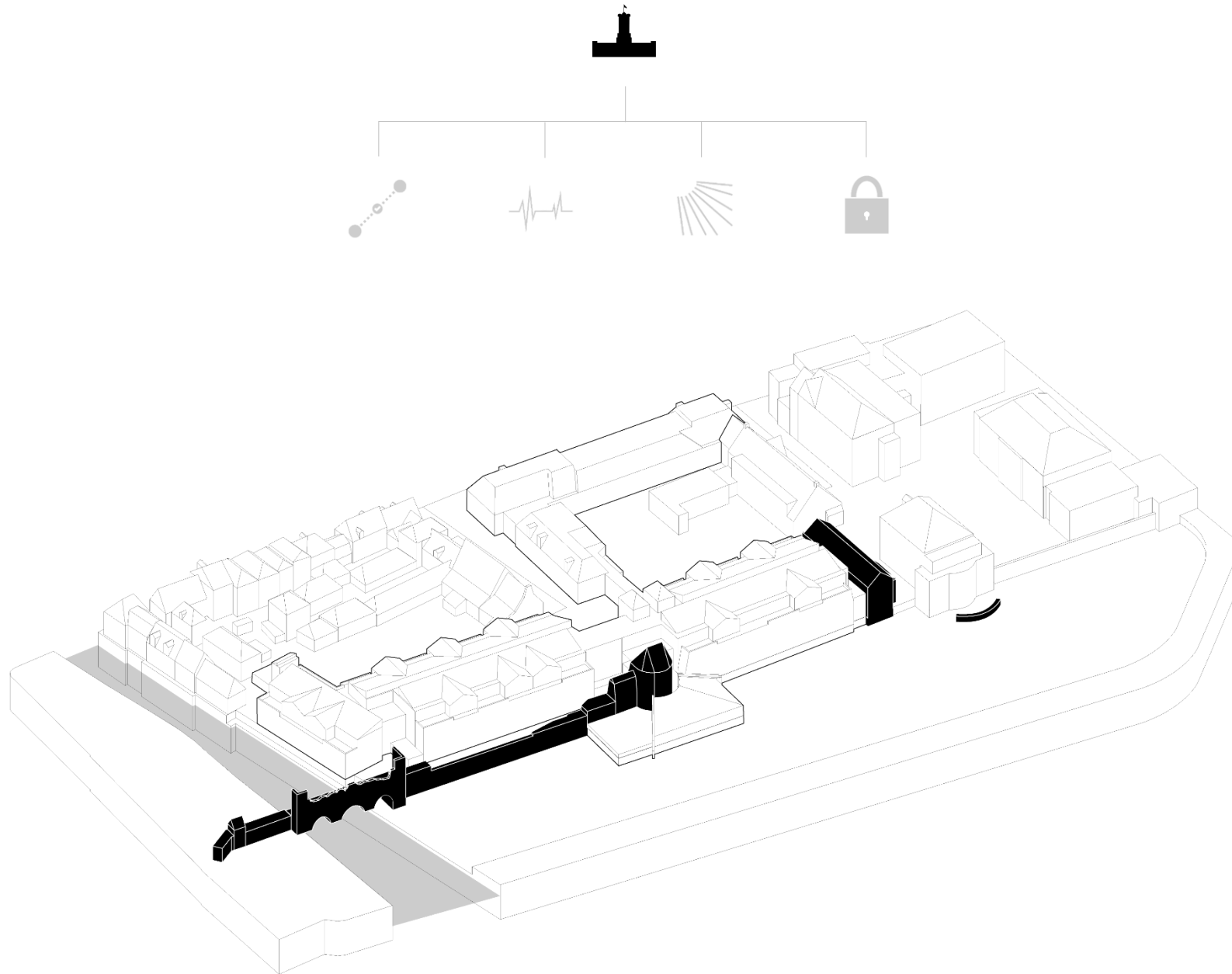


Recovering the space relationship between St. Elisabeth complex and heritages  
 Considering accessibility, activity, view & light and privacy issue.

**4 Design**

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

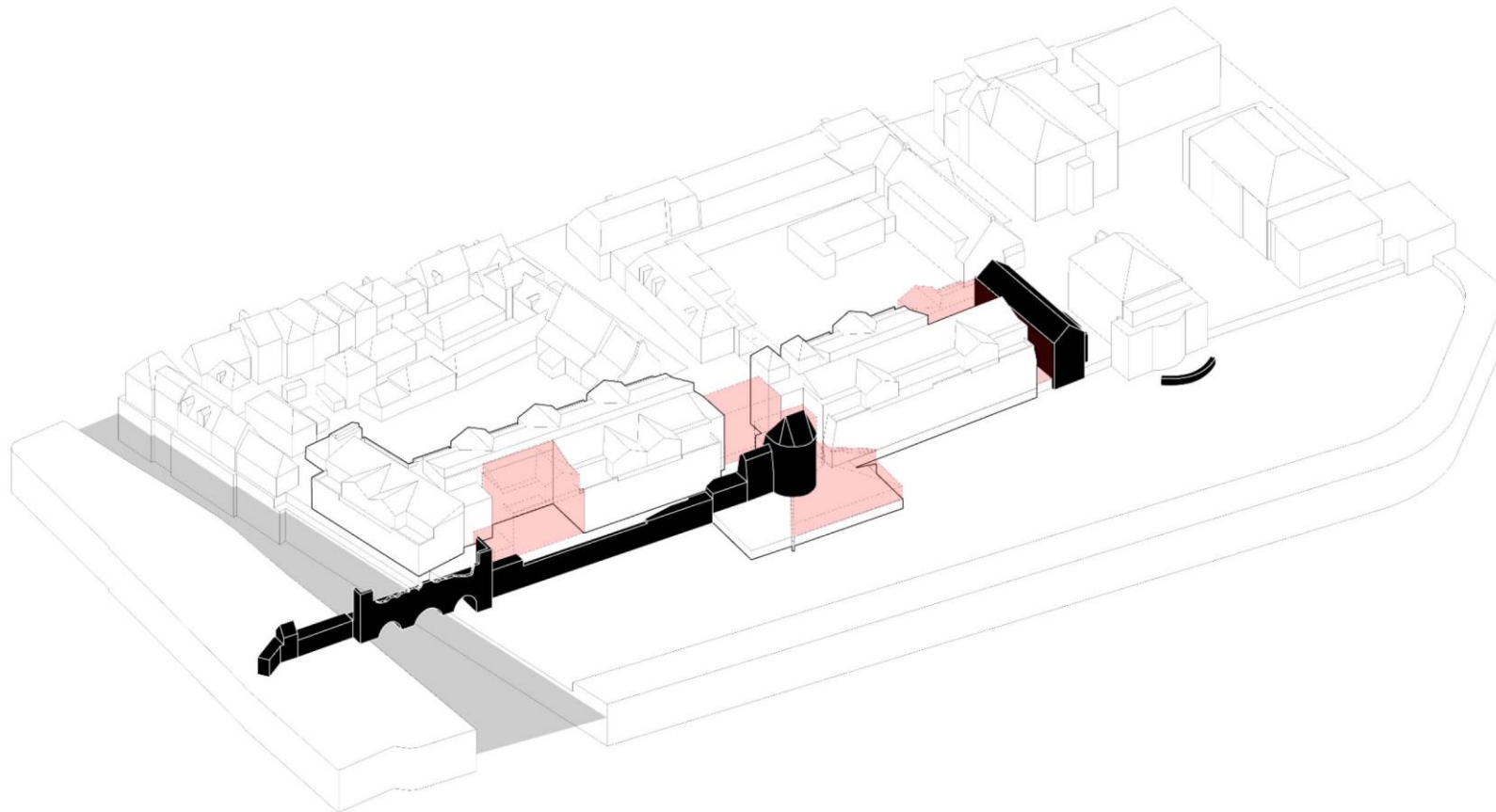
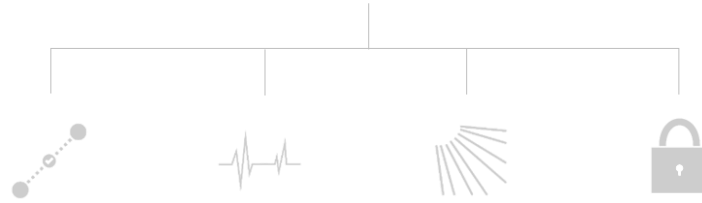




## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

- Process 1 : Key elements
- Process 2 : Partial demolish
- Process 3 : Garden design
- Process 4 : Elderly house renovation

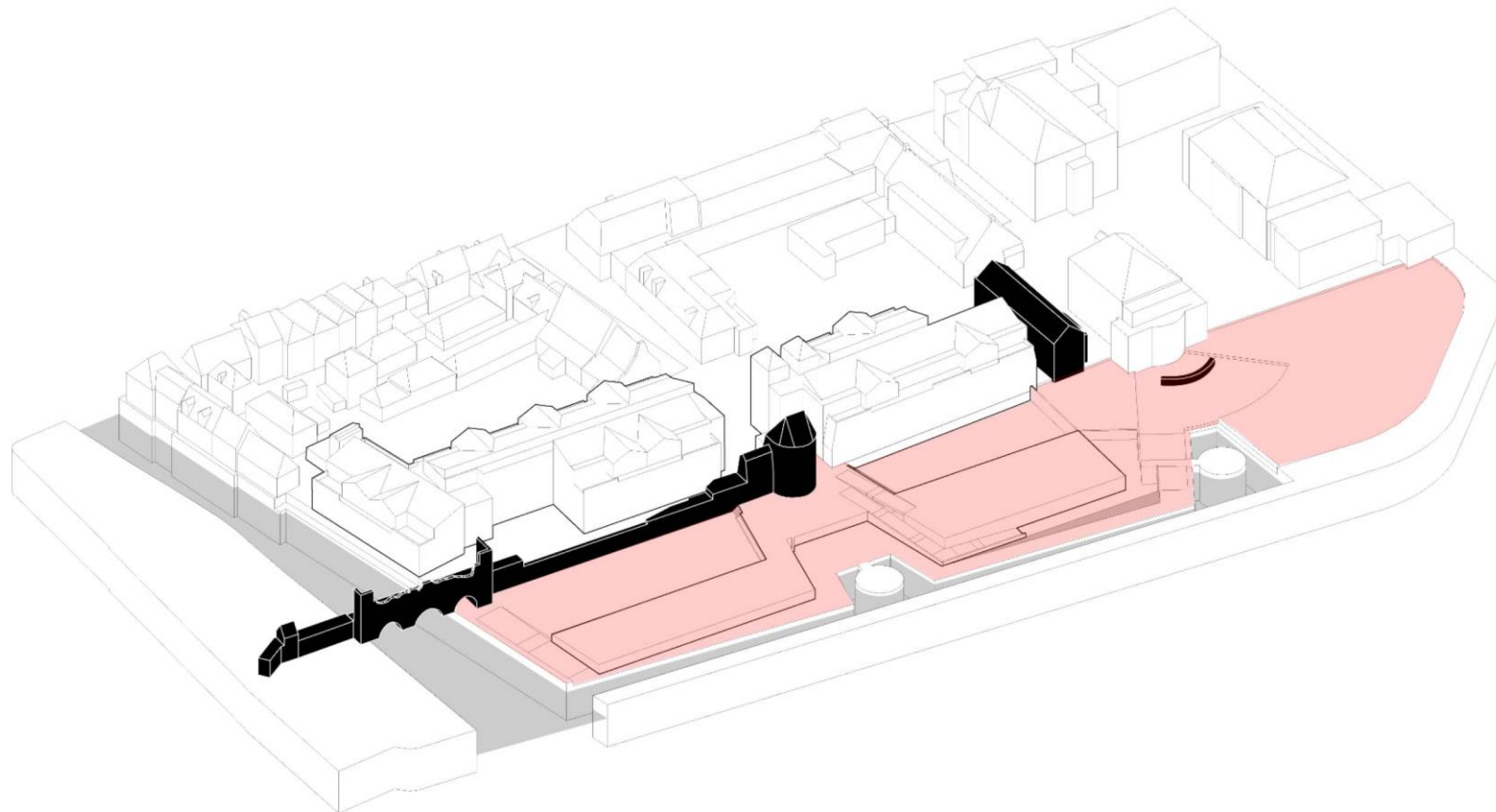
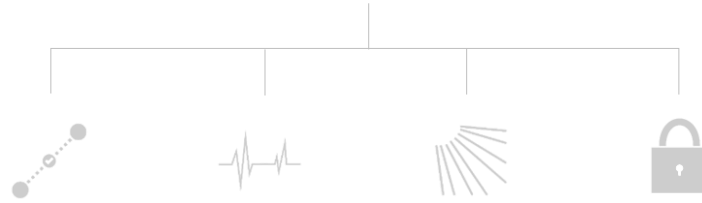


## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

- Process 1 : Key elements
- Process 2 : Partial demolish
- Process 3 : Garden design
- Process 4 : Elderly house renovation

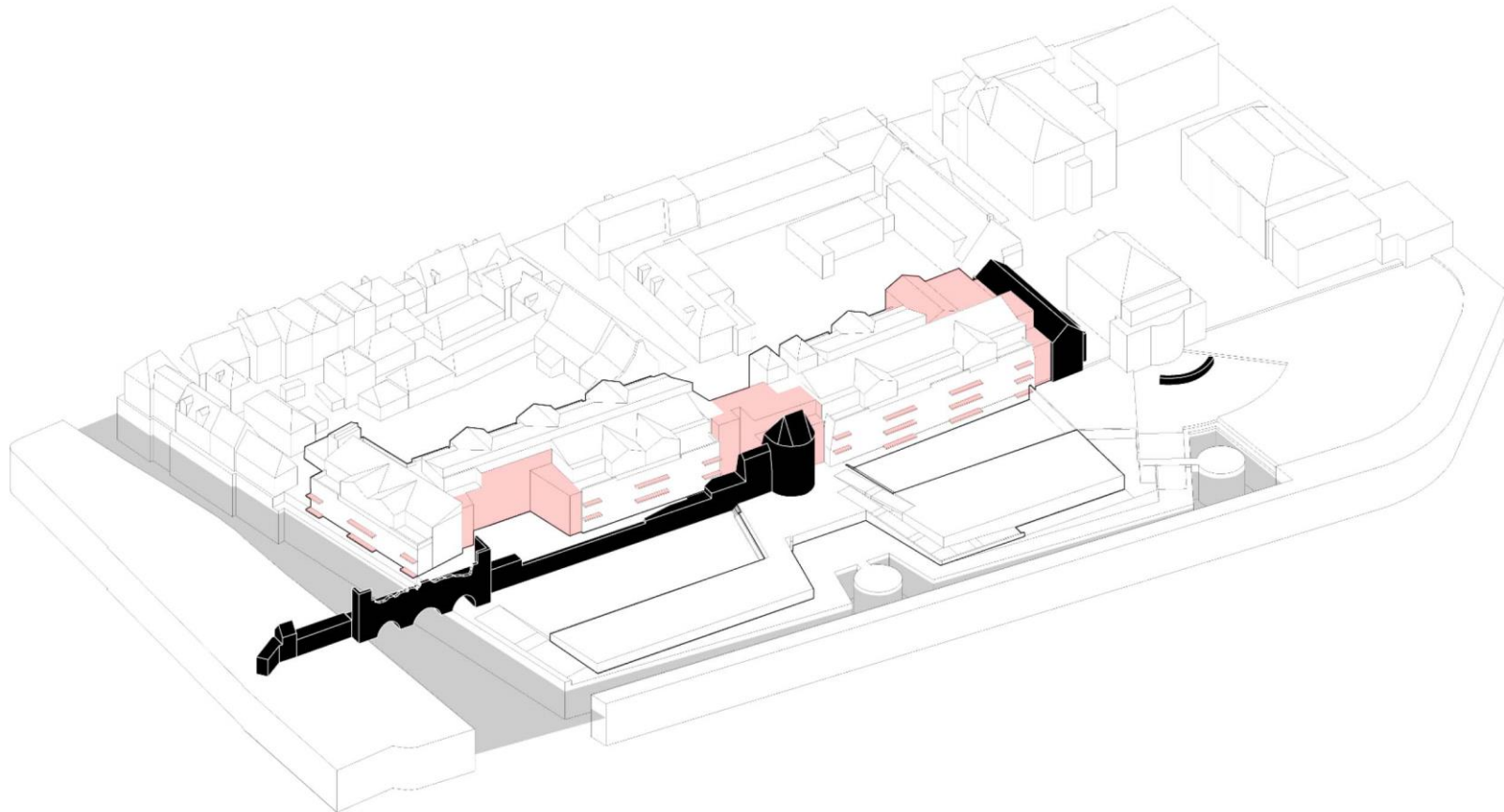
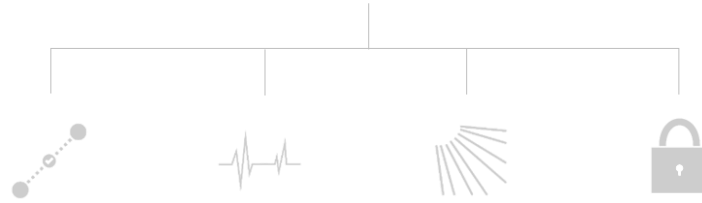




## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

- Process 1 : Key elements
- Process 2 : Partial demolish
- Process 3 : Garden design
- Process 4 : Elderly house renovation

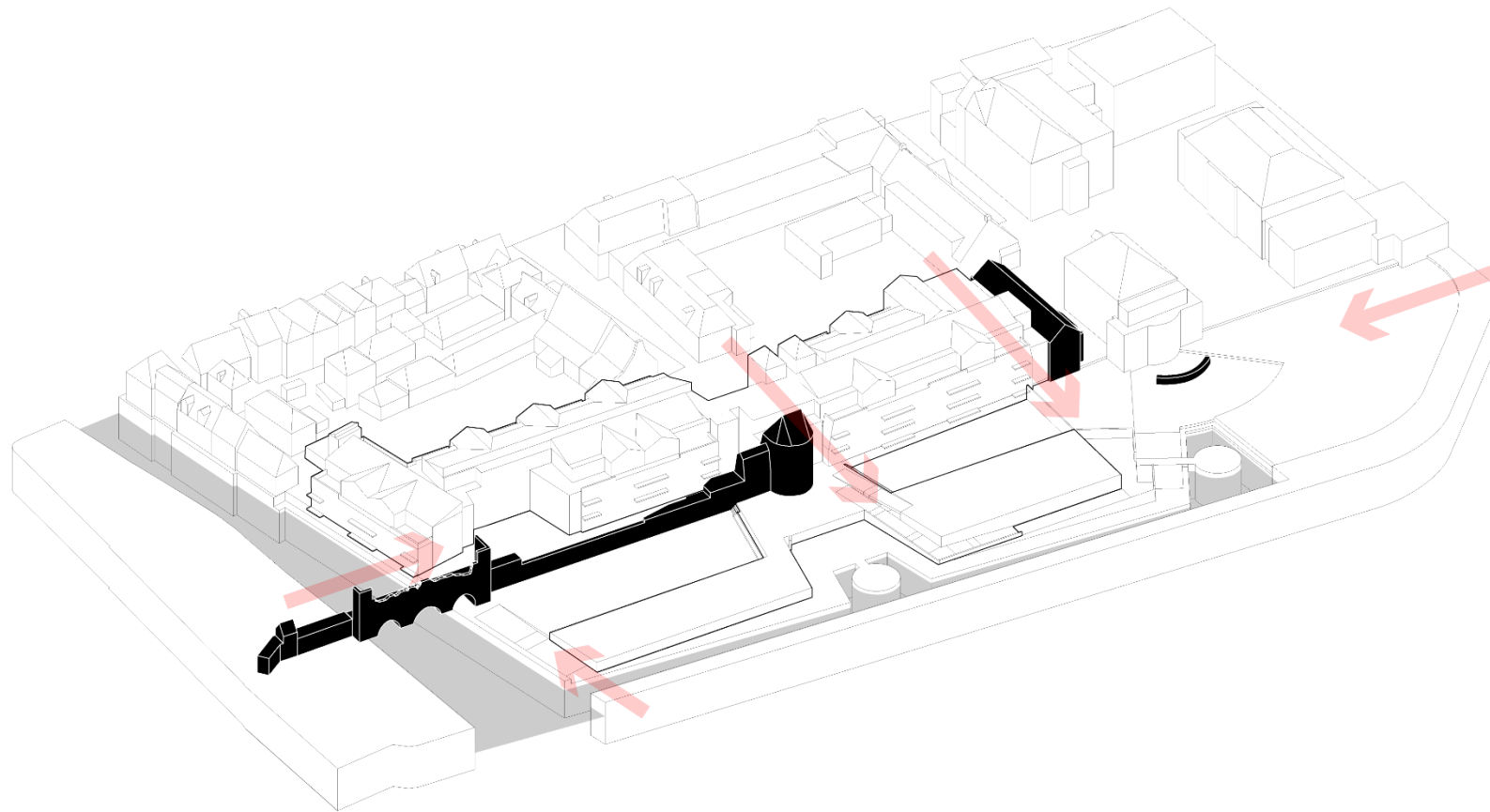
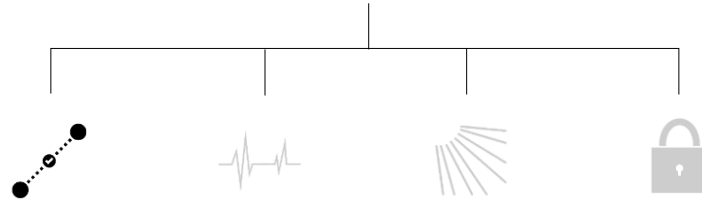


#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

- Process 1 : Key elements
- Process 2 : Partial demolish
- Process 3 : Garden design
- Process 4 : Elderly house renovation





Increase accessibility

## 4 Design

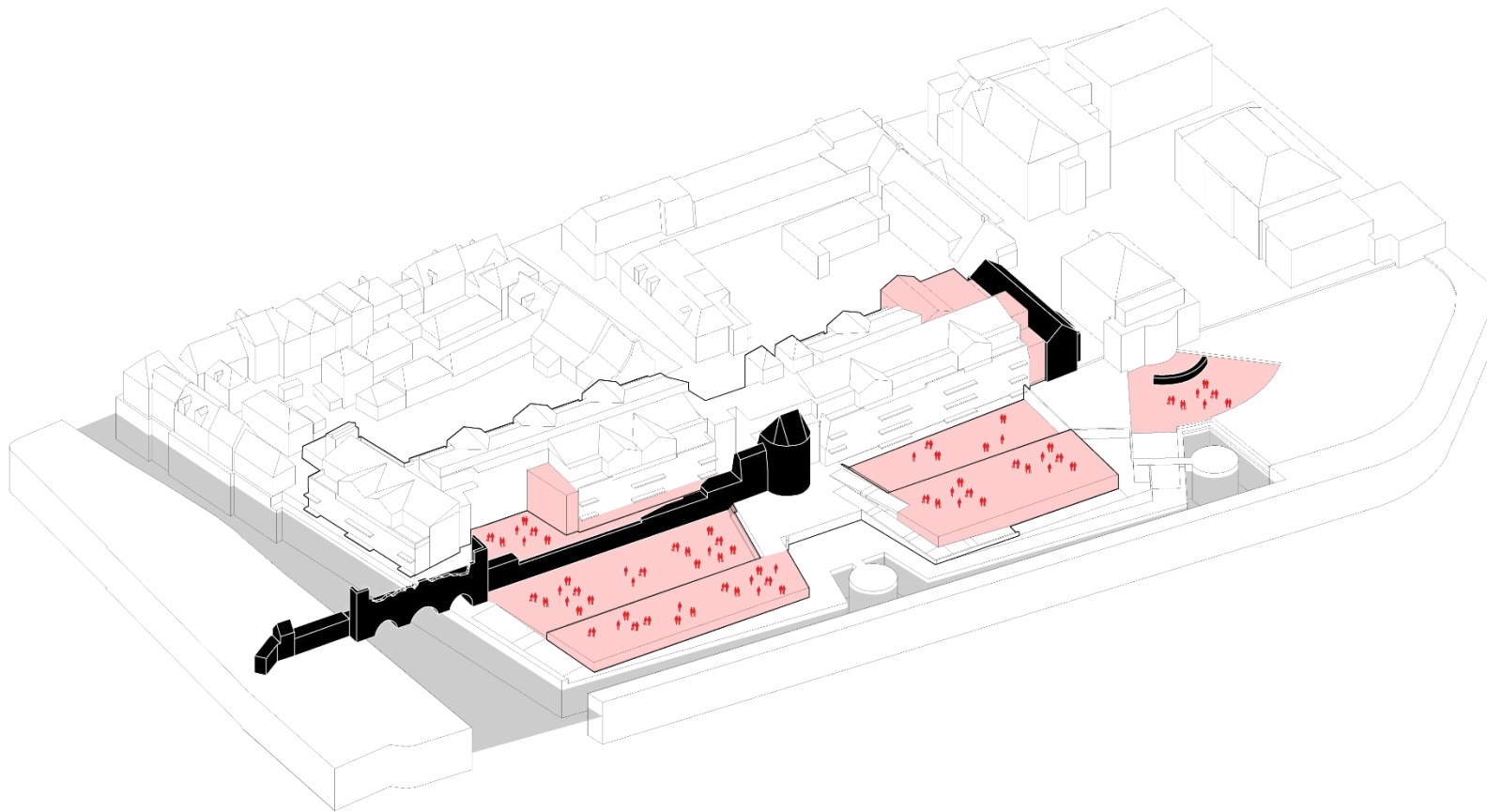
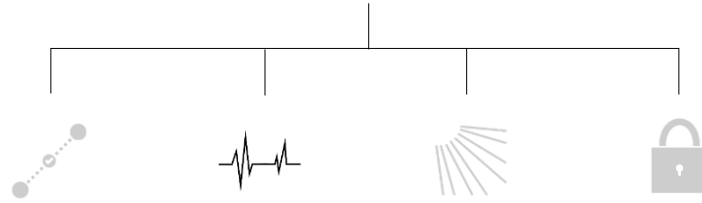
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

Strategy 1: Accessibility

Strategy 2: Activity

Strategy 3: View and light

Strategy 4: Privacy



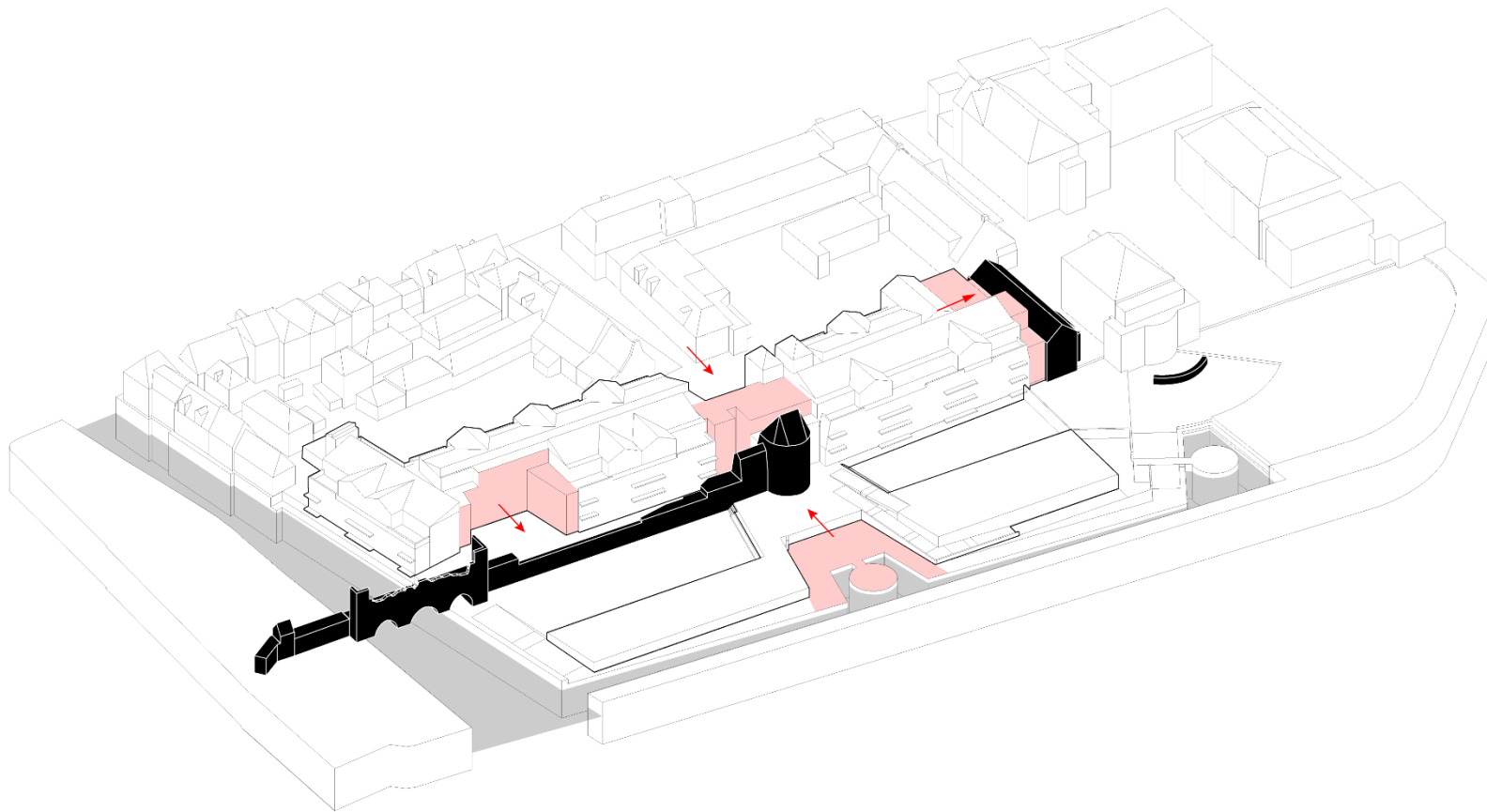
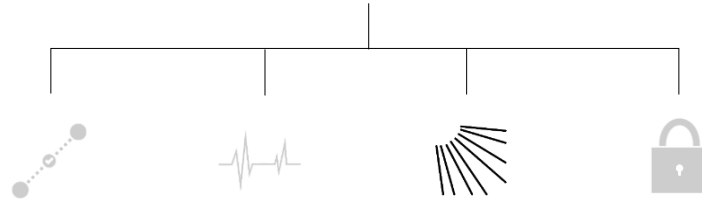
Generating social and cultural activities

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

- Strategy 1: Accessibility
- Strategy 2: Activity
- Strategy 3: View and light
- Strategy 4: Privacy



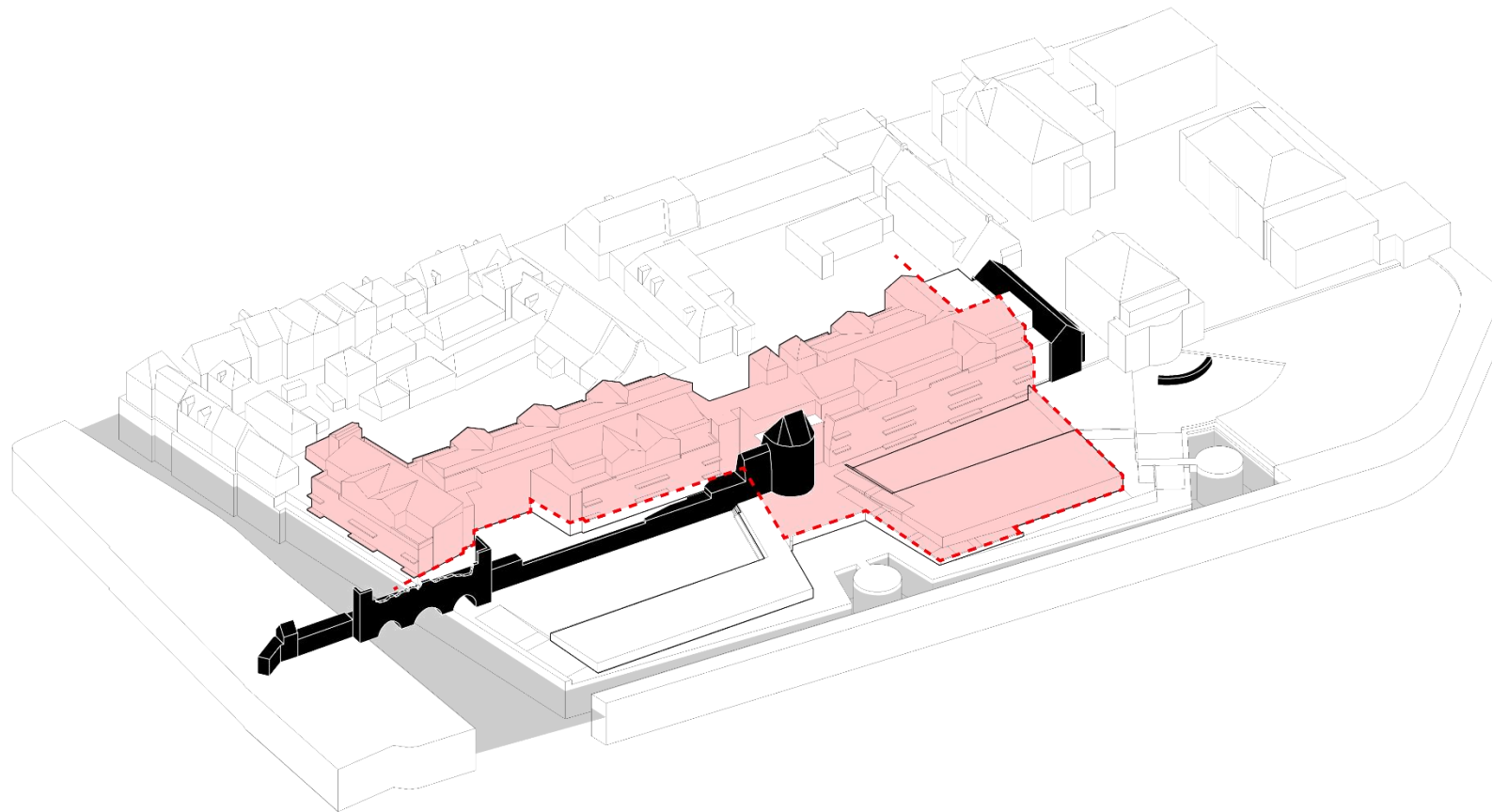
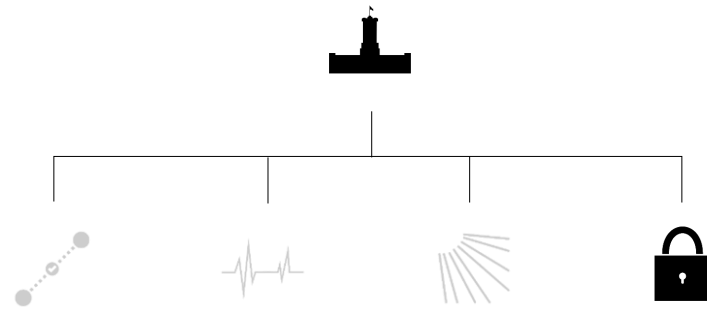


Provide active and bright view

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

- Strategy 1: Accessibility
- Strategy 2: Activity
- Strategy 3: View and light
- Strategy 4: Privacy



Setting resident zone to protect resident's privacy

#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
  
- 4-6. Visitor's route
- 4-7. Resident's route

- Strategy 1: Accessibility
- Strategy 2: Activity
- Strategy 3: View and light
- Strategy 4: Privacy



## St. Elisabeth heritage garden Master plan

### Green

1. Berkel park with Berkelpoort
2. Berkel river with boat tour deck
3. Beethoven park with Spanish gate and citywall remains

### Culture

4. Citywall center with citywall
5. Restaurant with citywall garden
6. Tower with water garden
7. Tower remains with music garden
8. Music hall
9. Afterschool music academies
10. Concert hall

### Living

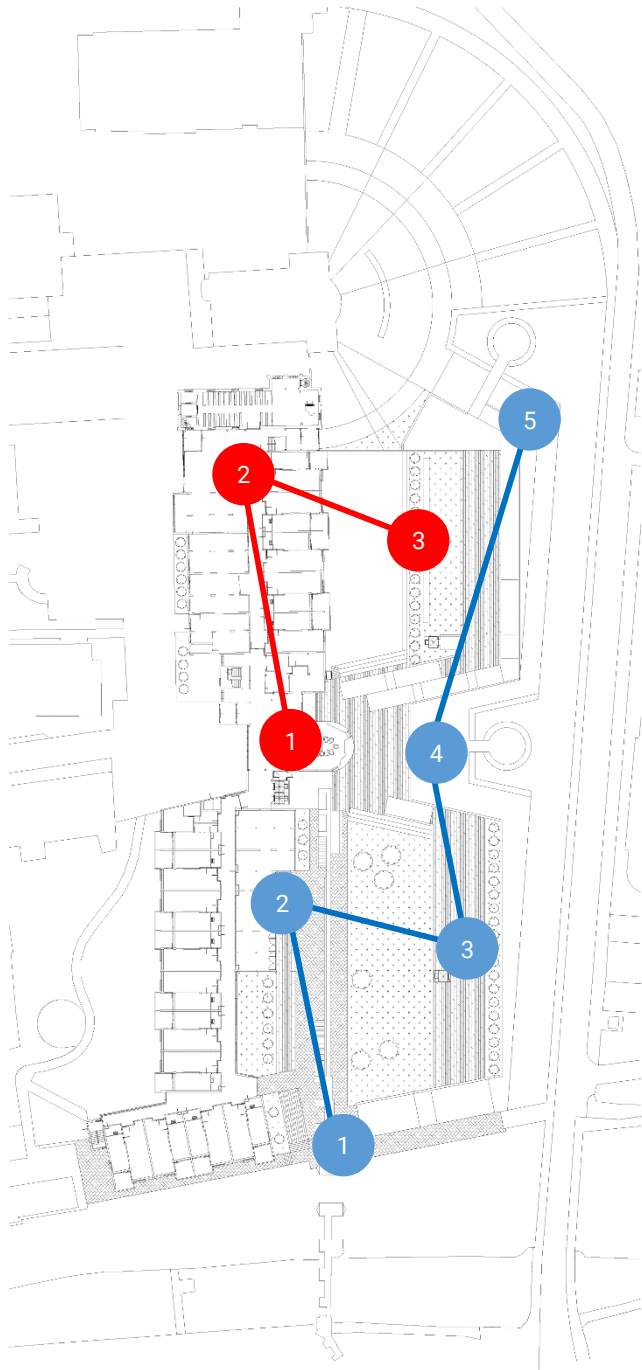
11. Elderly housing
12. Recreation room with residence garden
13. Music therapy center
14. Hotel

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

- Cultural hub of Nieuwestad
- Nieuwestad Heritage trail



## Two different main routes

### 1. Visitor's route

- 1-1 Entrance to garden
- 1-2 Citywall center
- 1-3 Restaurant
- 1-4 Water garden
- 1-5 Music garden

### 2. Resident's route

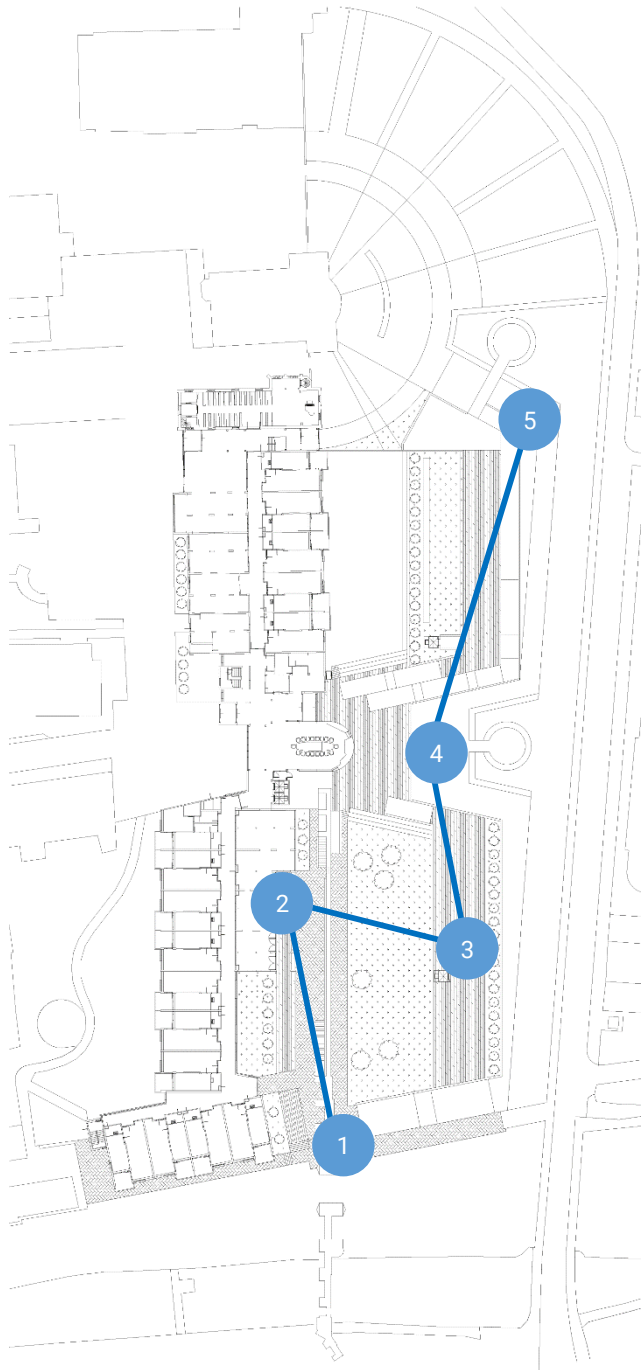
- 2-1 Main entrance
- 2-2 Music hall
- 2-3 Recreation room

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





## Two different main routes

### 1. Visitor's route

- 1-1 Entrance to garden
- 1-2 Citywall center
- 1-3 Restaurant
- 1-4 Water garden
- 1-5 Music garden

### 2. Resident's route

- 2-1 Main entrance
- 2-2 Music hall
- 2-3 Recreation room

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

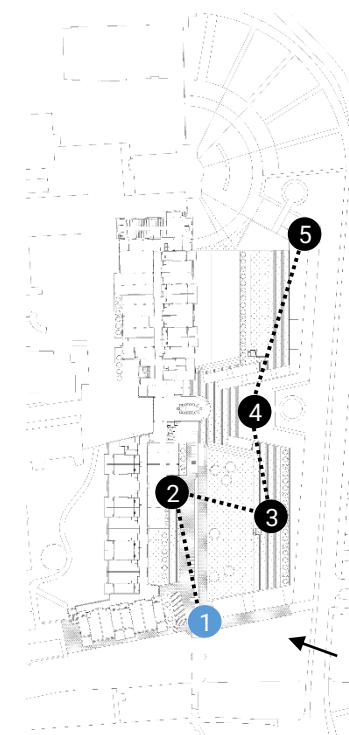
## Existing situation : Berkelpoort



### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





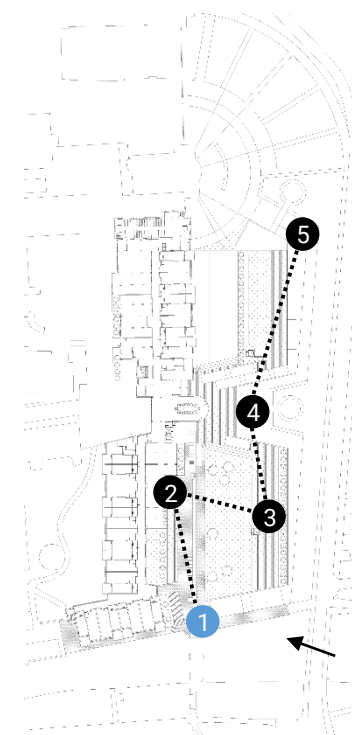
After renovation



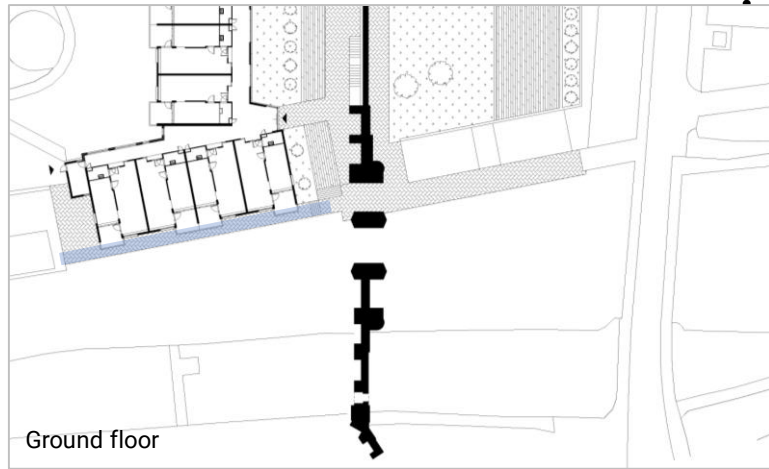
#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

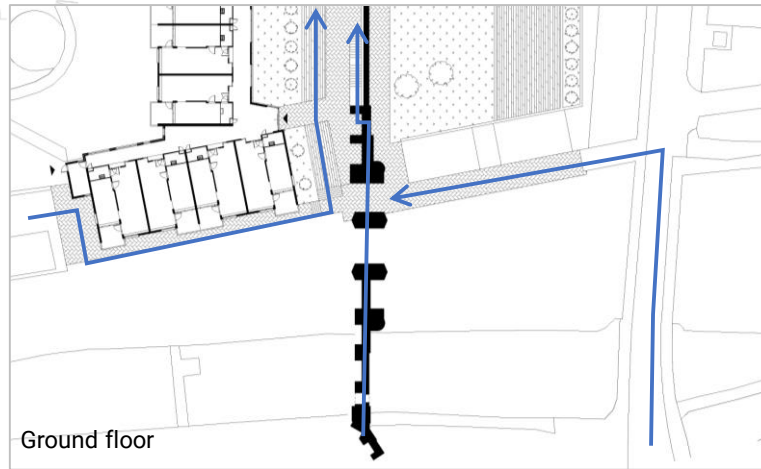






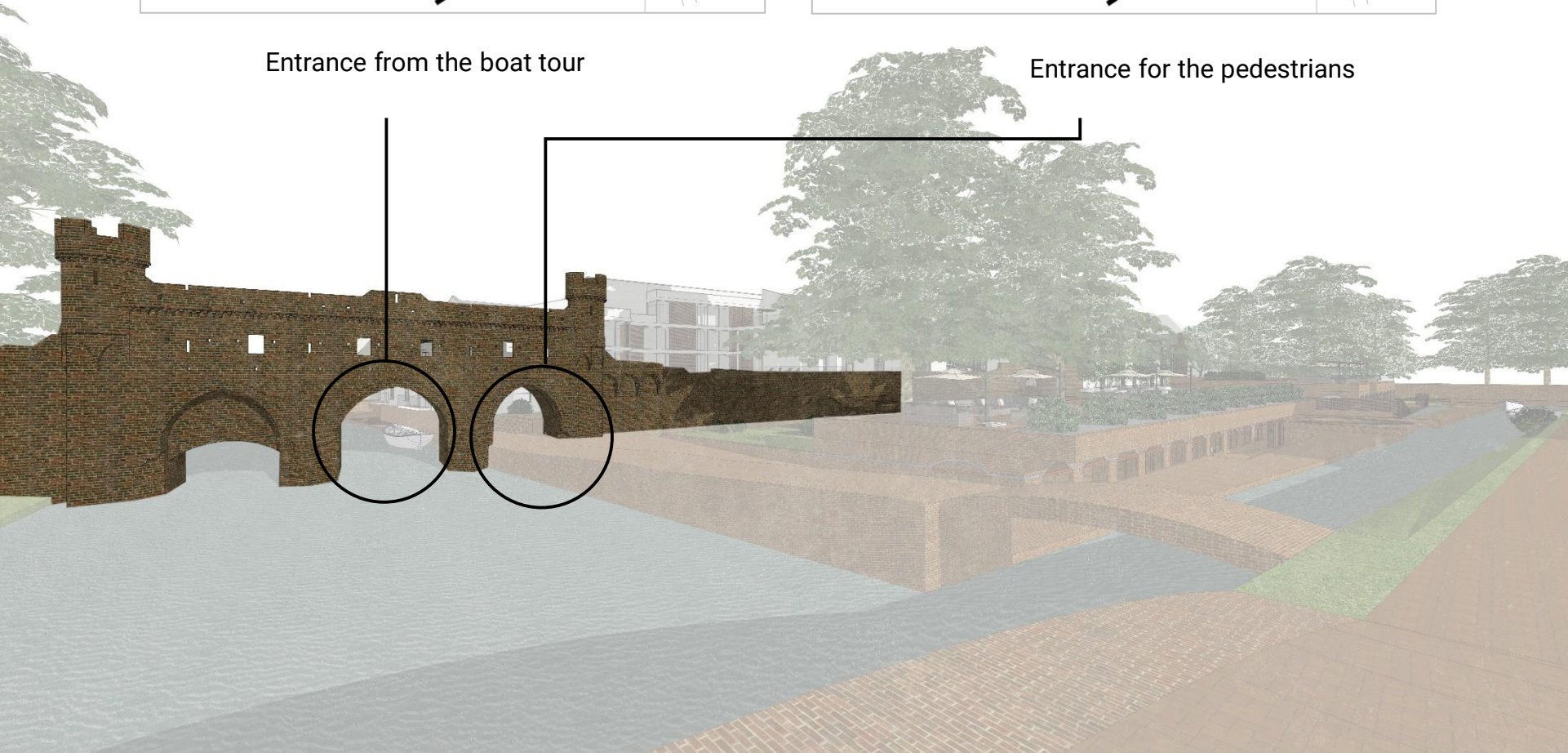
Ground floor

Entrance from the boat tour



Ground floor

Entrance for the pedestrians



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-1 Entrance to garden

### Accessibility

- Entrance from the boat tour
- Entrance from the bridges





## 4 Design

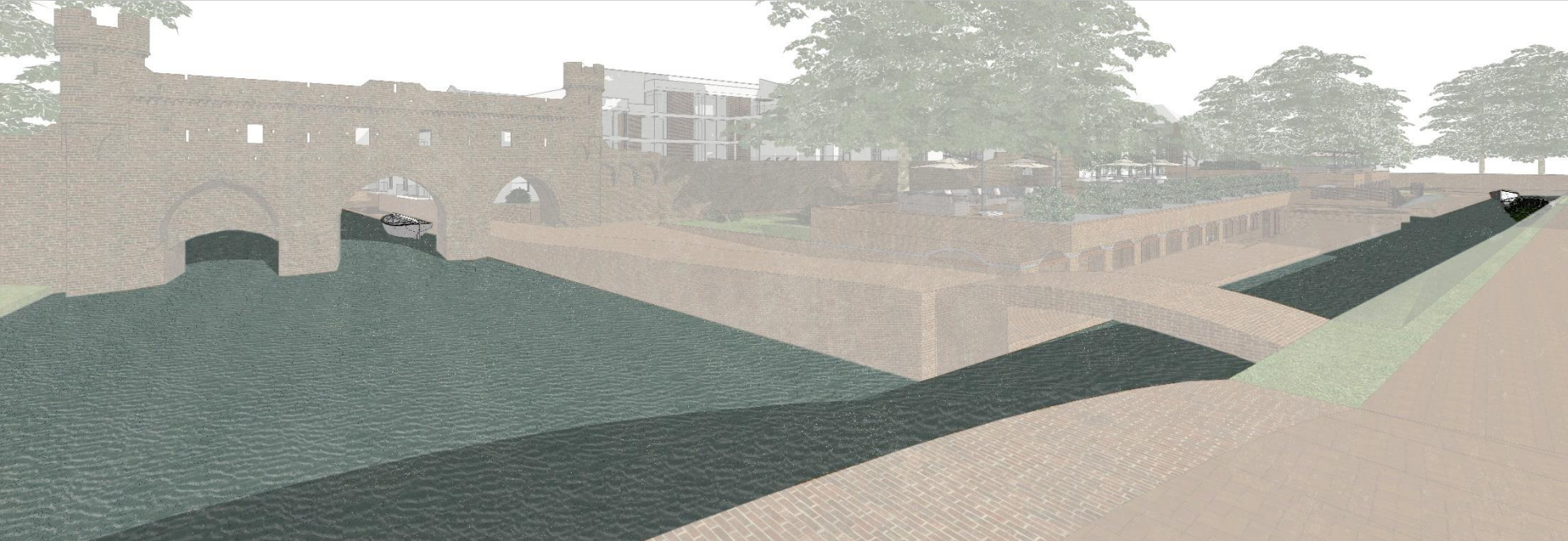
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-1 Entrance to garden

### Activity

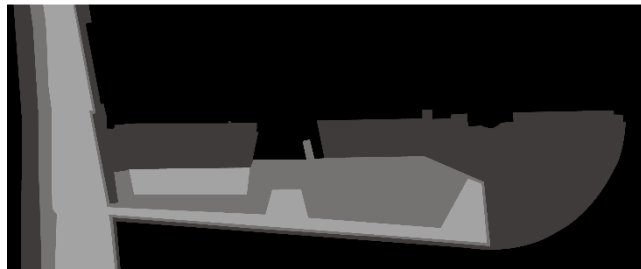
- New boat tour route
- The restoration of a lost waterway in 1912







Existing topography level



Renovated topography level



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-1 Entrance to garden

### View and Light

#### Continuous heritage landscape

- Move trees to Beethoven park
- Using 2m ground level difference



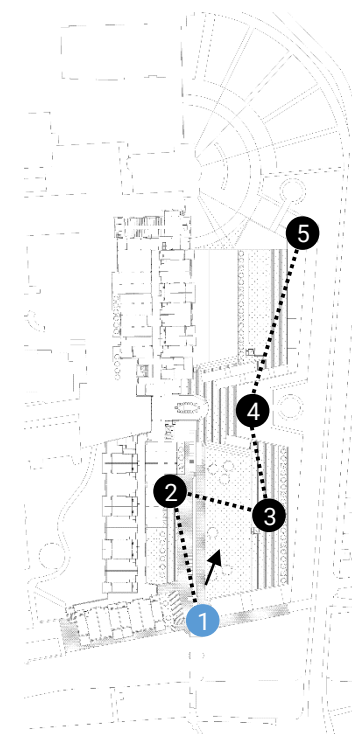
Existing situation : Citywall and tower



4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





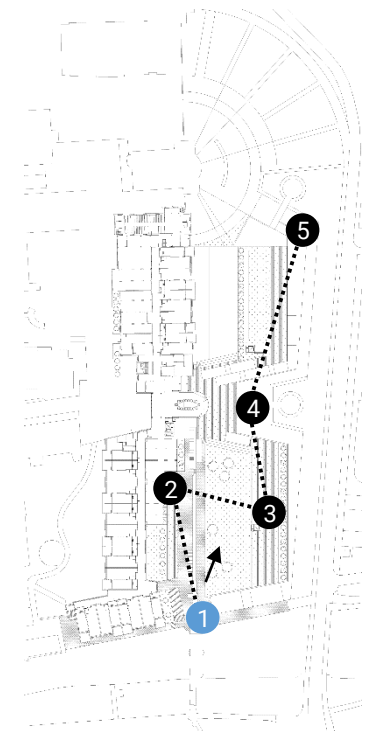
After renovation : View from the Berkelpoort



#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route







## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



1-1 Entrance to garden

Activity  
-Programs





## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



City wall garden

1-1 Entrance to garden

Activity  
-Programs

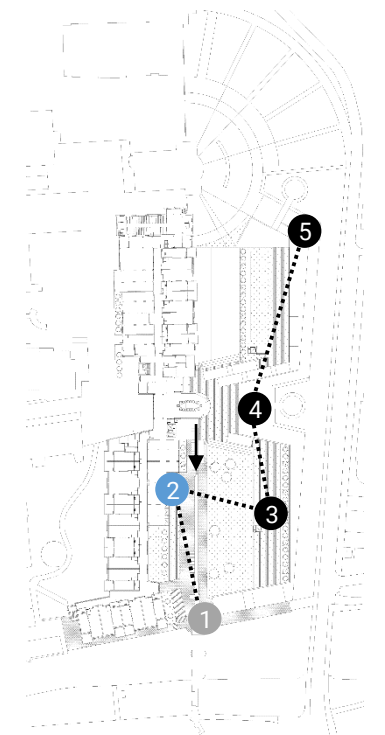


Existing situation : Citywall



4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
- 4-6. Visitor's route
- 4-7. Resident's route





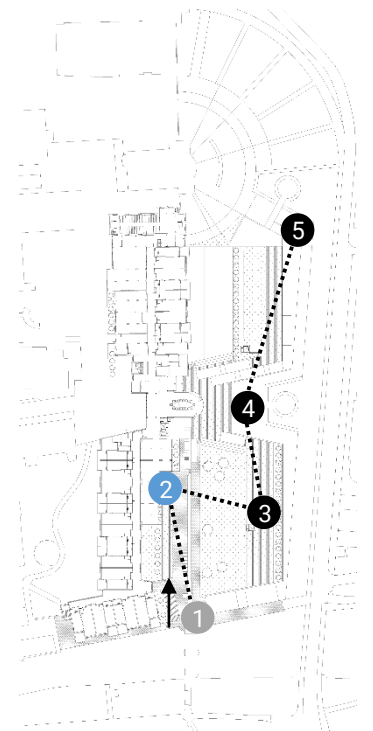
After renovation : Citywall center



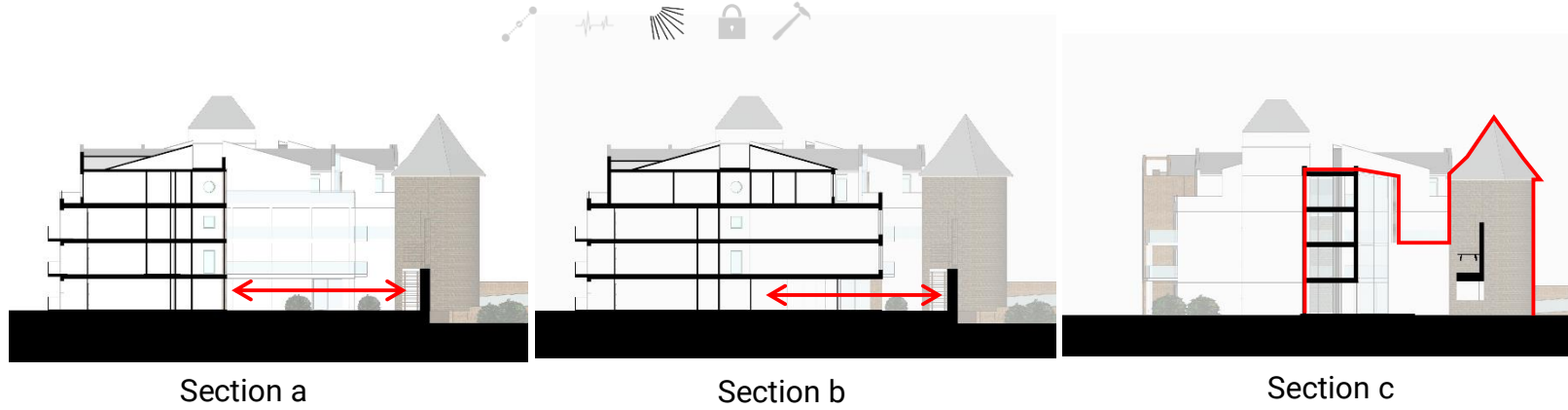
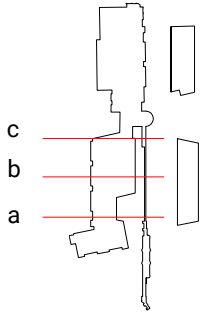
#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route







**4 Design**

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



1-2 Citywall center

**View and light**

- Regain the relation with the city wall
- Emphasizing tower



St. Elisabeth building 1965-1991 (Zutphen archive)





## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



1-2 Citywall center

### View and light

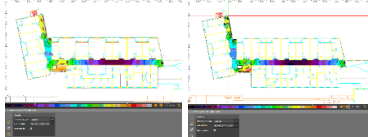
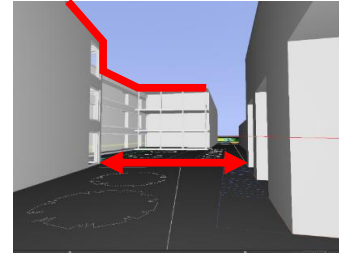
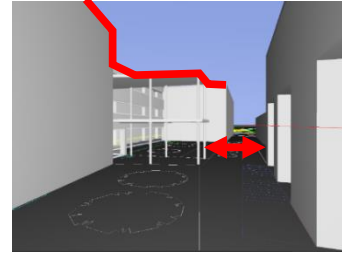
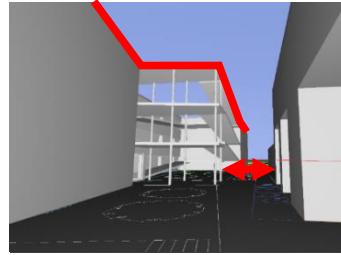
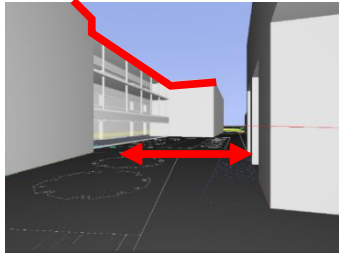
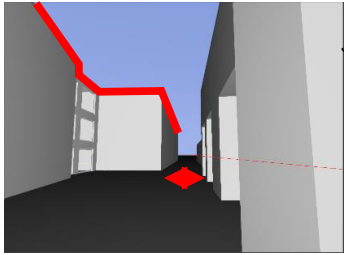
-Balcony design for maximum light



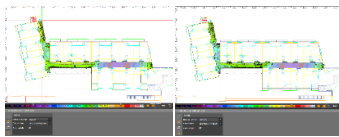


St. Elisabeth Building

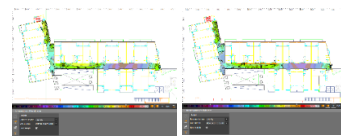
City wall



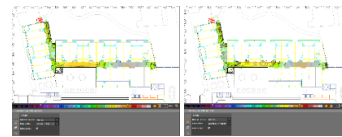
Summer 12pm  
Winter 12pm



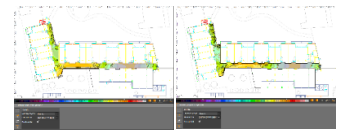
Summer 12pm  
Winter 12pm



Summer 12pm  
Winter 12pm



Summer 12pm  
Winter 12pm



Summer 12pm  
Winter 12pm

### Current situation

-Daylight test  
Average corridor brightness : 50lx

-Space test  
City wall alley : 5m

-Façade test  
Façade continuity : Connected

### Experiment 1

-Daylight test  
Average corridor brightness : 75lx

-Space test  
City wall alley : 12m

-Façade test  
Façade continuity : Disconnected

### Experiment 2

-Daylight test  
Average corridor brightness : 100lx

-Space test  
City wall alley : 5m

-Façade test  
Façade continuity : Connected

### Experiment 3

-Daylight test  
Average corridor brightness : 200lx

-Space test  
City wall alley : 5m

-Façade test  
Façade continuity : Disconnected

### Experiment 4

-Daylight test  
Average corridor brightness : 500lx

-Space test  
City wall alley : 12m

-Façade test  
Façade continuity : Connected

Provide right level of daylight to community zone and corridor : 200~500lx

## 4 Design

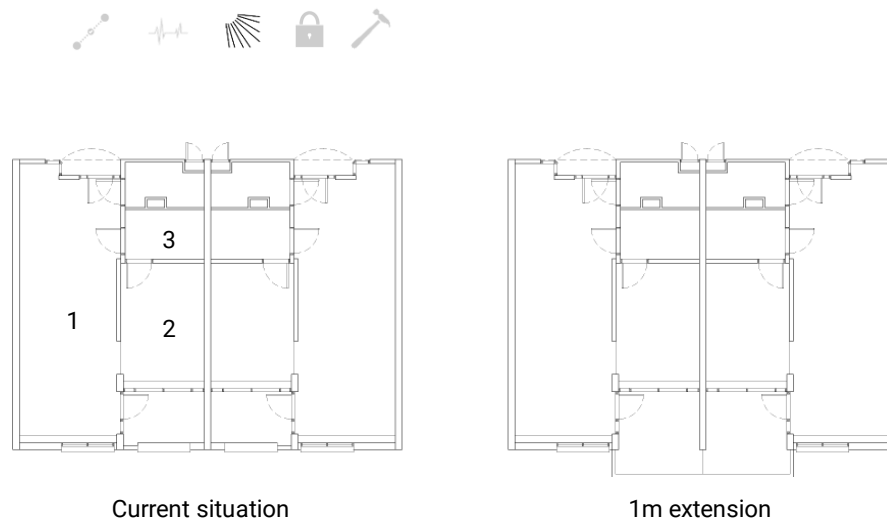
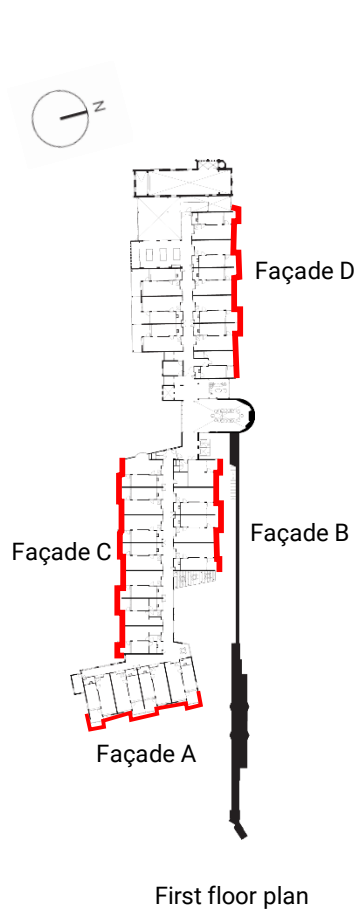
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

View and light

-Balcony design for maximum light



- 1 Livingroom
- 2 Bedroom
- 3 Restroom

- 1m balcony extension to bring the garden view inside of the house
- Balcony is placed above the passage or garden
- Column should be avoided to acquire enough space

#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

- View and light
- Balcony extension



Façade A (Before renovation)



Façade B (Before renovation)

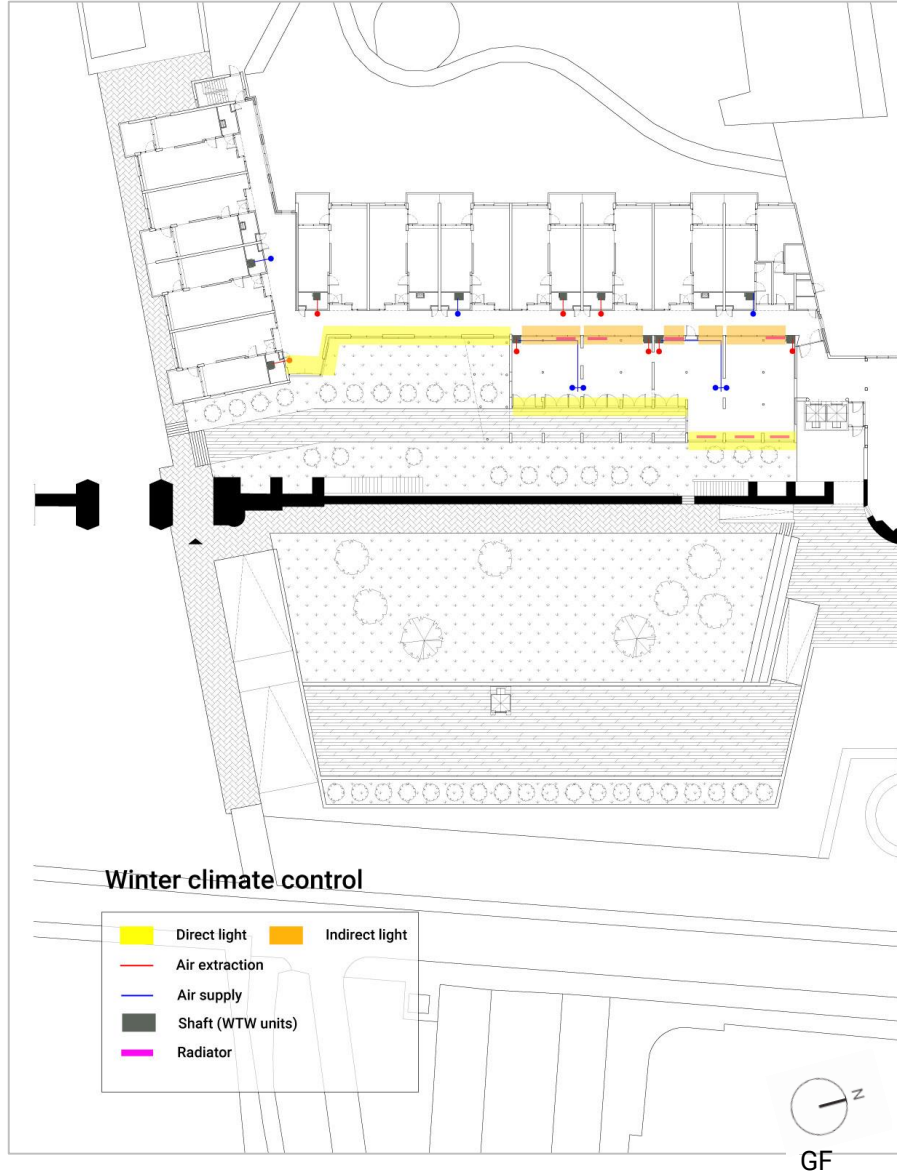
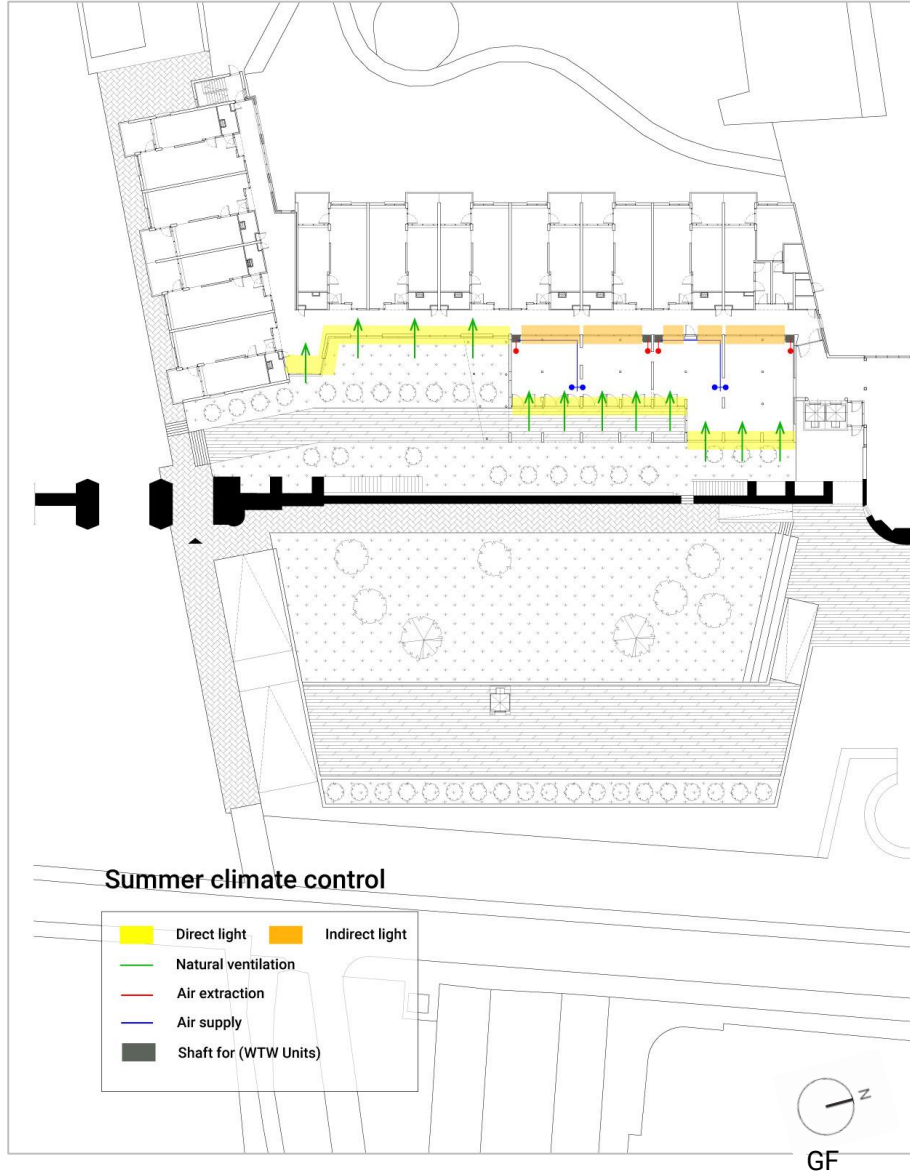


Façade C (Before renovation)



Façade D (Before renovation)





## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

### View and light

- Summer climate control
- Winter climate control
- Light control through sliding sunscreen
- Summer door open



Sunscreen opened



Sunscreen closed



Front : Perforated red bricks  
Back : Solid red bricks



Steel plate roof



White plaster

Glass railing

Steel railing

UV Glass



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

View and light  
-Façade material





## 4 Design

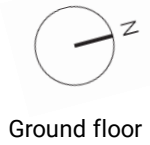
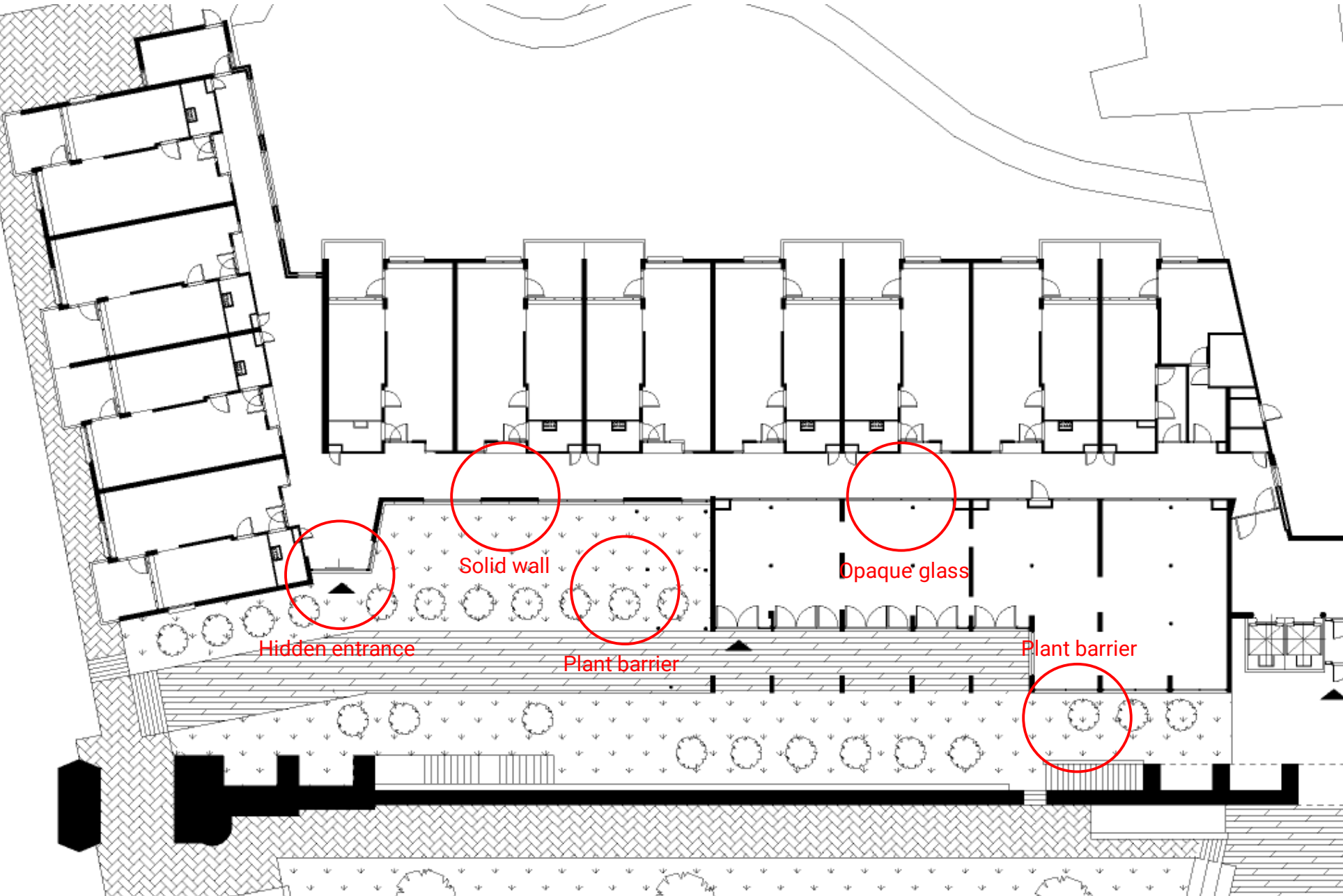
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

### Privacy

- Solid wall in front of housing unit
- Plant barrier and hidden house entrance
- Opaque glass



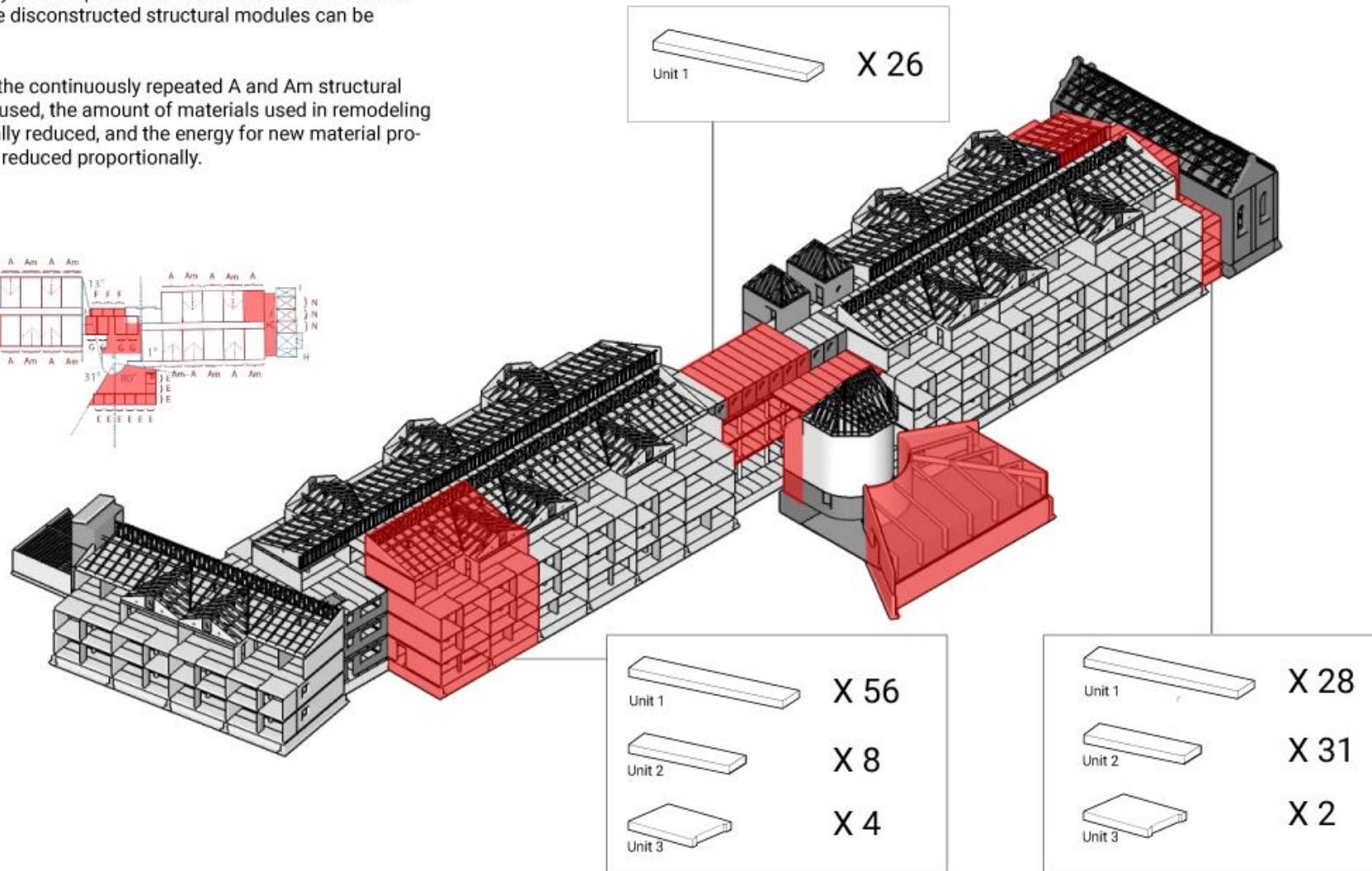
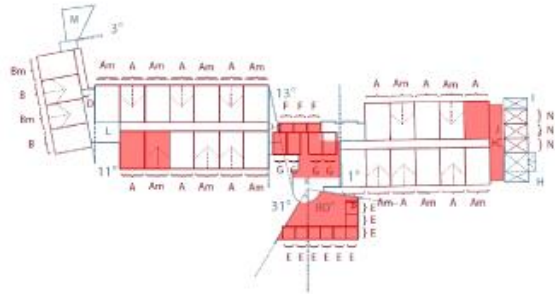
Ground floor



## Demolish parts and reuse of modules

The parts marked in red will be demolished in remodeling project. If the newly added space follows the modules of the existing building, the disconstructed structural modules can be reused.

In particular, if the continuously repeated A and Am structural modules are reused, the amount of materials used in remodeling can be drastically reduced, and the energy for new material production can be reduced proportionally.



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

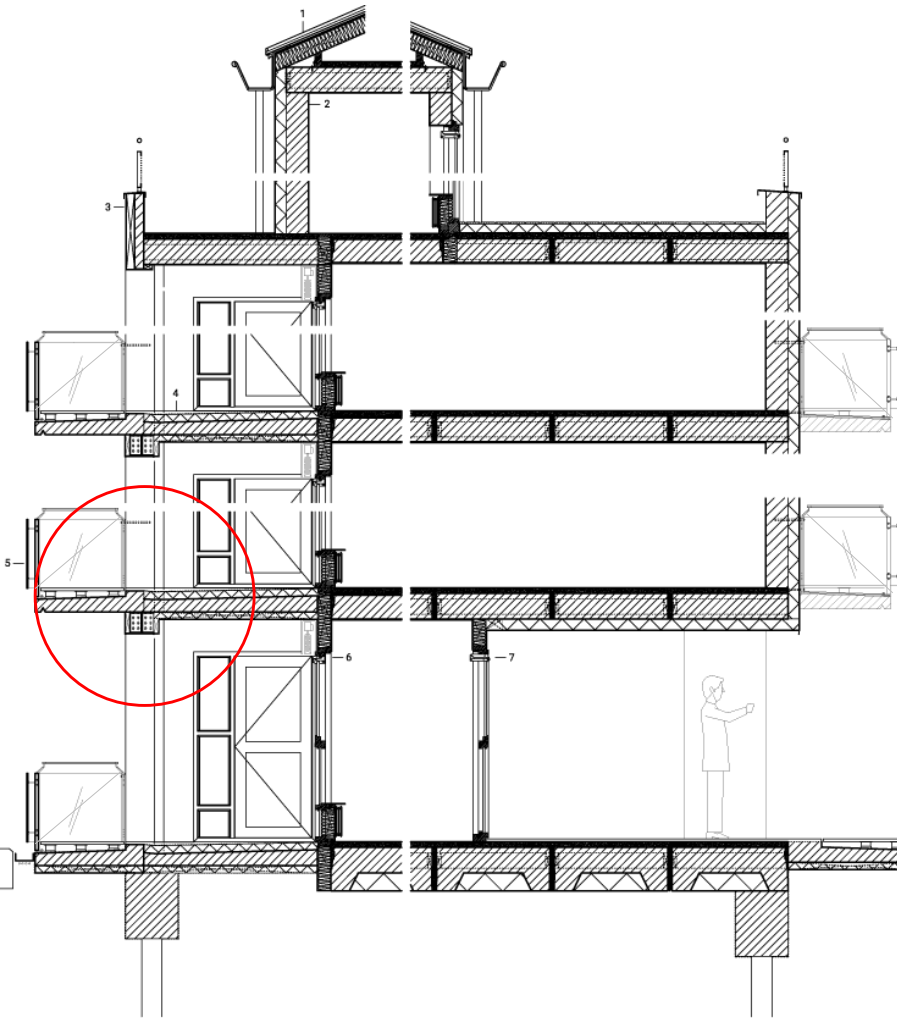
- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

### Structure and detail

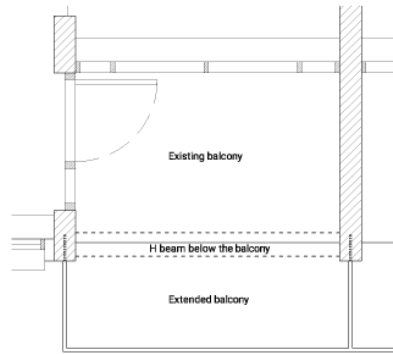
- Adaptive reuse
- Reuse of disassembled building material



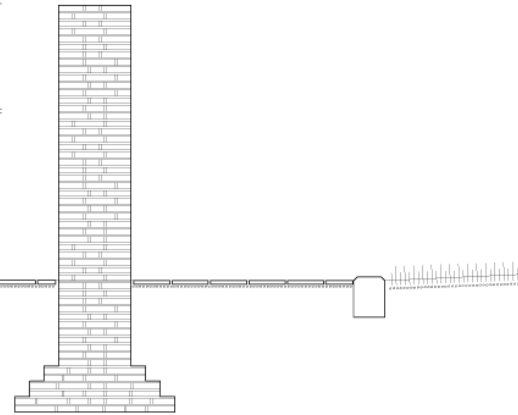


St. Elisabeth elderly house main section vertical cross cut  
Scale 1:20

- 1 Galvanized Iron, Fixing bolts, Timber rafter, Thermal insulation mineral wool 240mm, Vapour-permeable waterproofing membrane 5mm, Downspouts, Galvanized gutters
- 2 Timber patand, Cement screed 40mm, Prefabricated hollow cylinder concrete slab 260mm, Prefabricated concrete lintel 240mm, Thermal insulation 120mm, Plaster finishing 15mm
- 3 Steel handrail, Sheet iron, Prefabricated concrete slab 150mm, Wooden board 150mm, Plaster finishing 15mm
- 4 Bitumen membrane, Thermal insulation 120mm
- 5 Steel & Glass handrail with structural function, Prefabricated reinforced concrete slab 250mm, H beam for structural stability, Stelzlager nivellierbar
- 6 Outdoor sun block, Acoustic ventilation window (GlasMax SR : for low noisy level)
- 7 Acoustic ventilation window (DucoMax SR : for high noisy level)



St. Elisabeth elderly house balcony extension part horizontal cross cut  
Scale 1:20



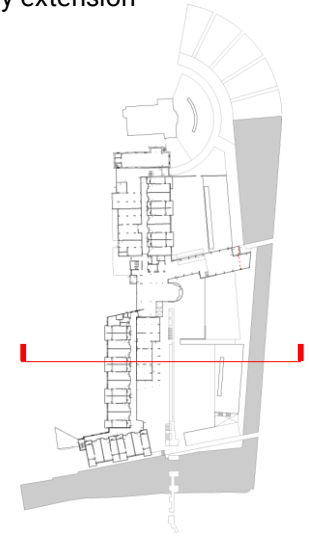
## 4 Design

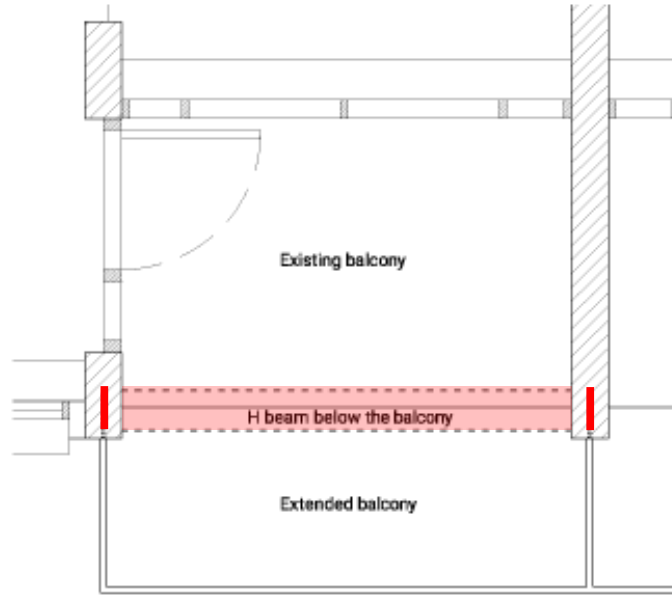
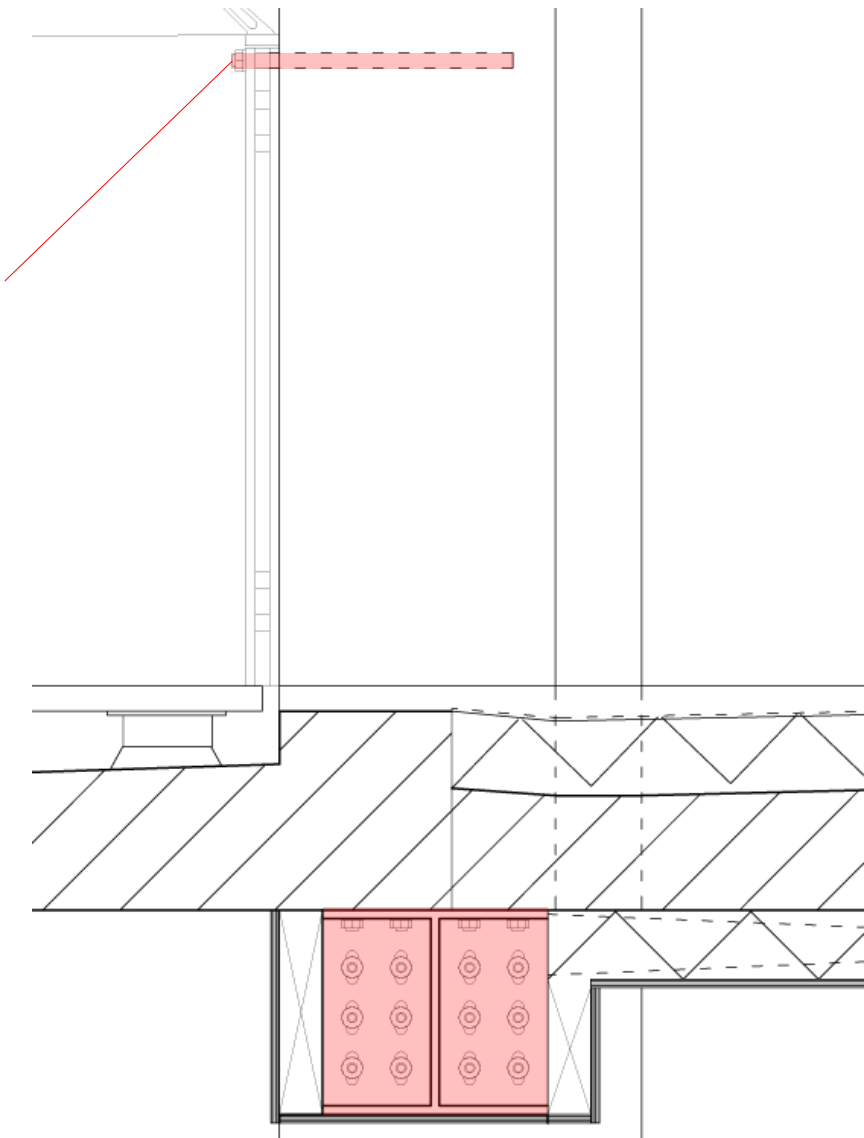
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

Structure and detail  
-Balcony extension





Extension balcony joint detail

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-2 Citywall center

Structure and detail  
-Balcony extension



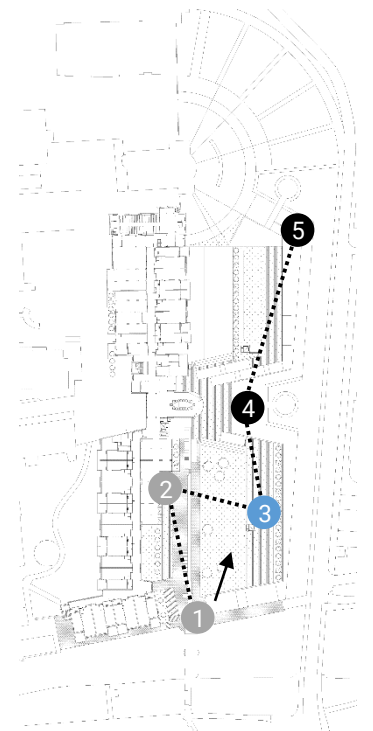
After renovation : Citywall garden



#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





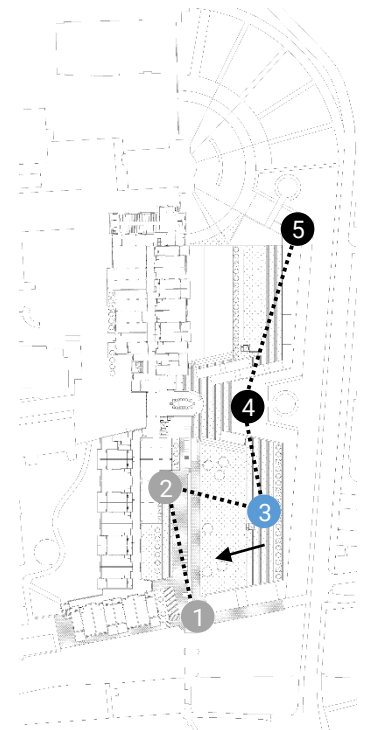
## After renovation : Restaurant roof terrace



### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



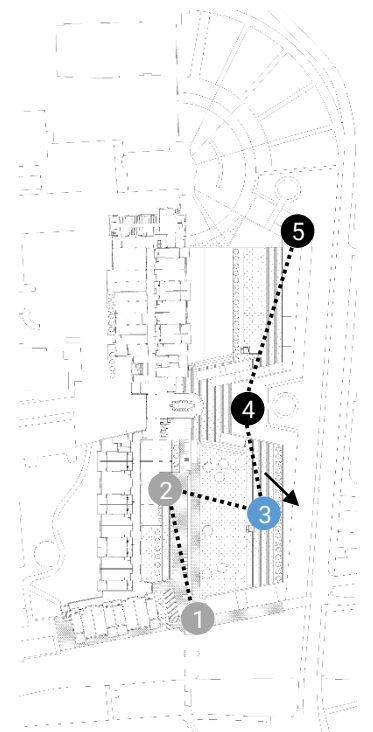


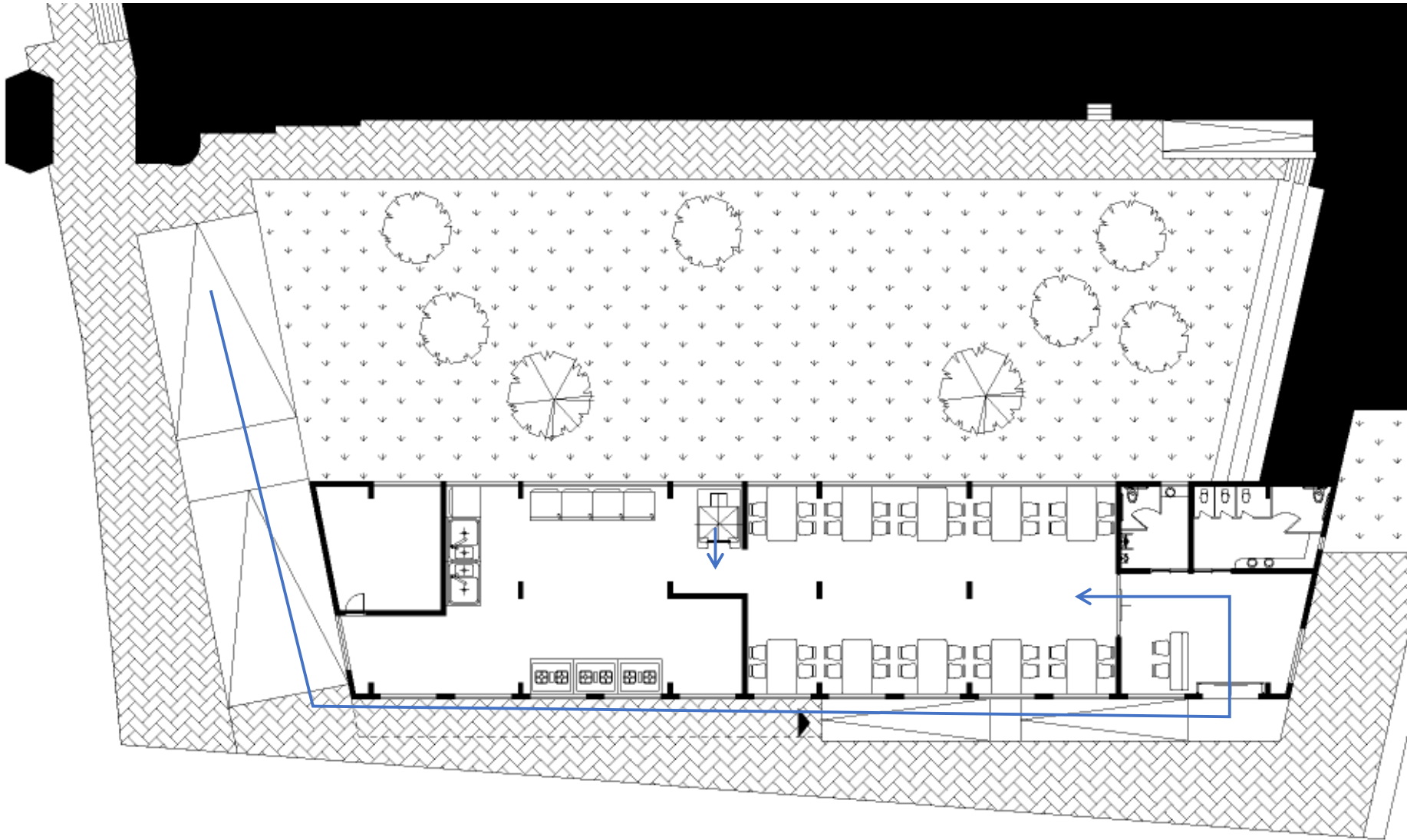
After renovation : Restaurant

#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

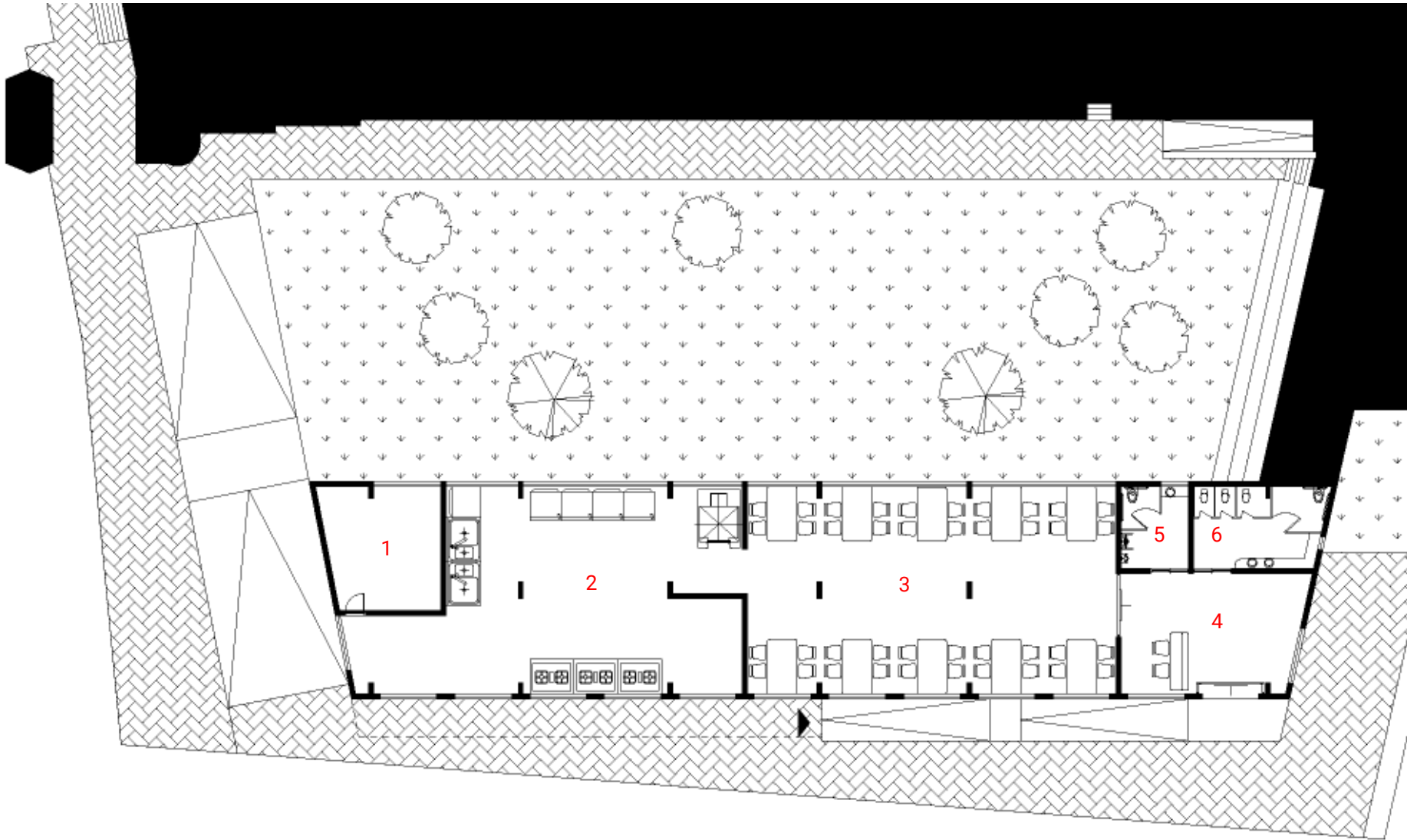
1-3 Restaurant

- Accessibility**
- From the ramp
  - From the elevator



Basement level





#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

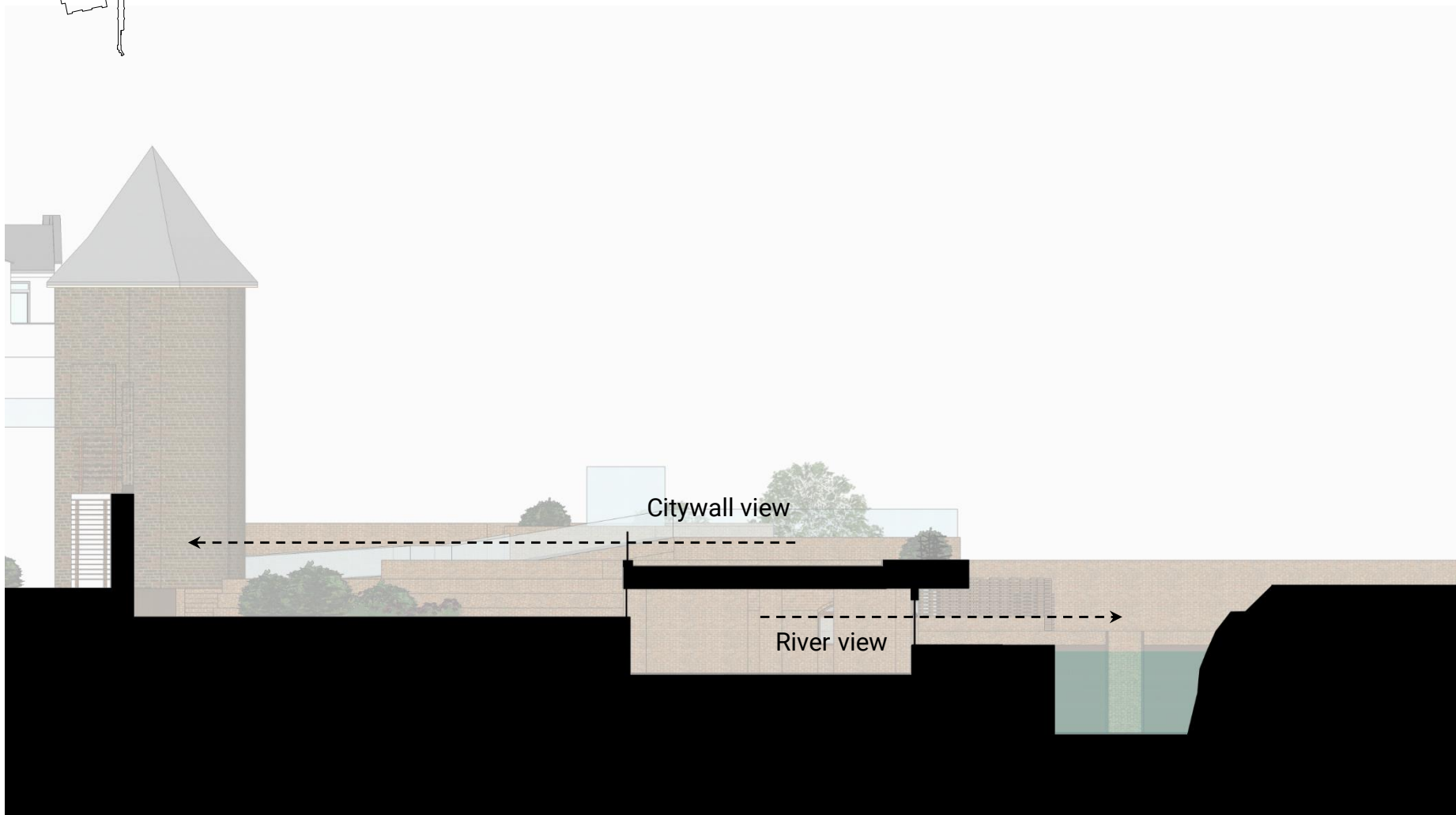
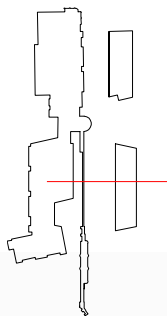
1-3 Restaurant

Activity  
-Programs

- 1. Machine room
- 2. Kitchen
- 3. Dining area
- 4. Lobby
- 5. Man's restroom
- 6. Woman's restroom



Basement level



## 4 Design

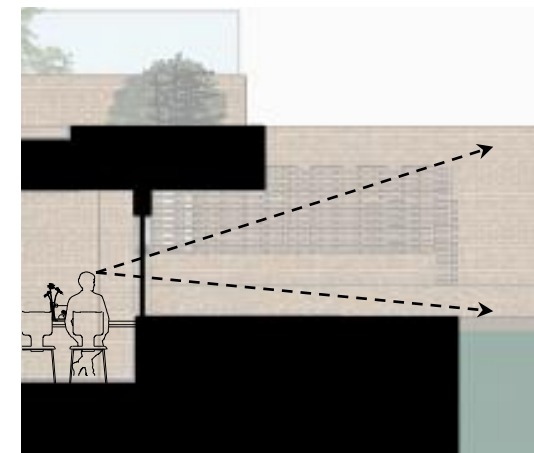
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

### 1-3 Restaurant

#### View and light

- Relation with Berkel river
- Relation with citywall



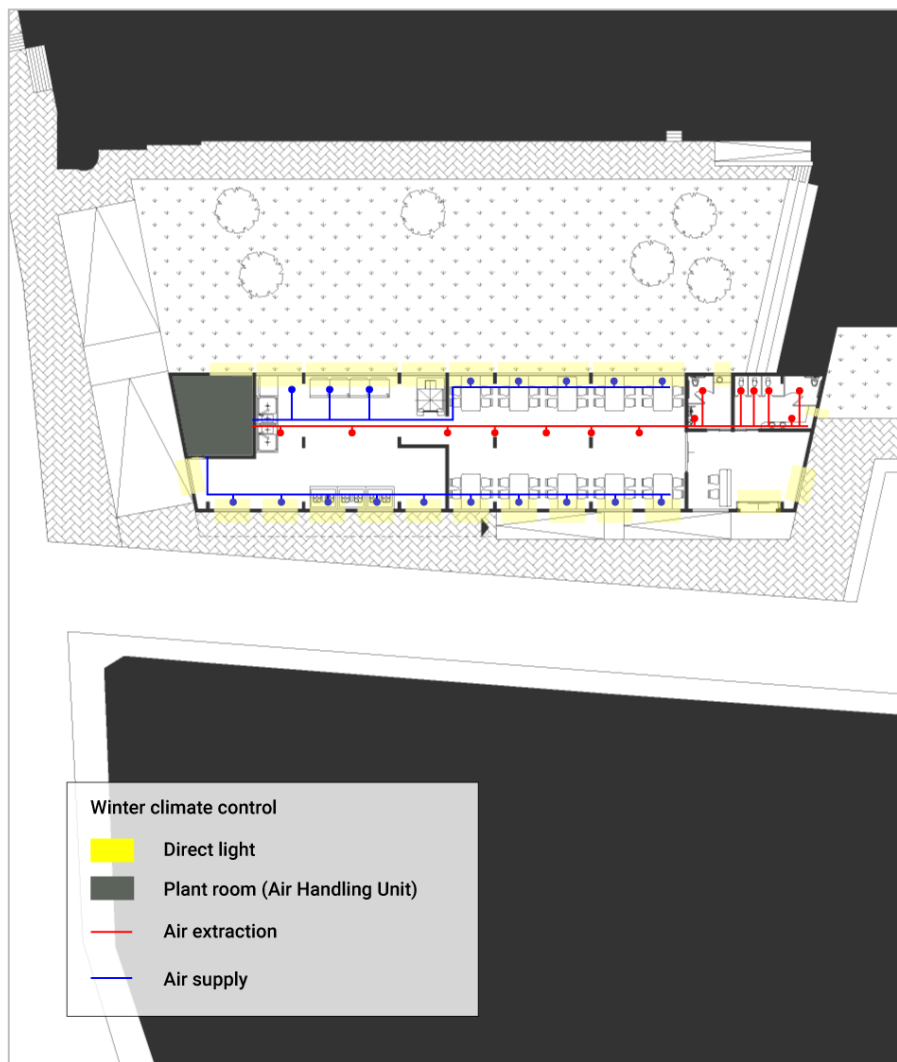
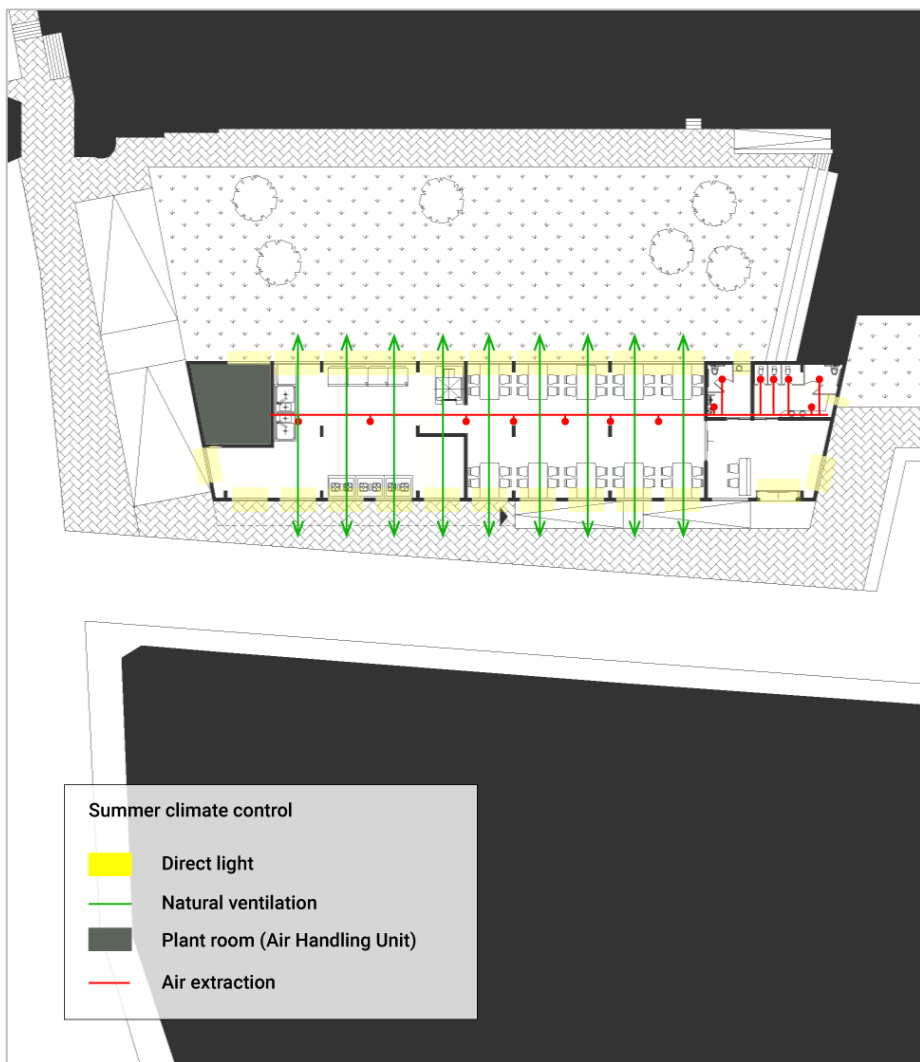




## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

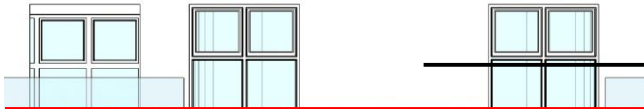
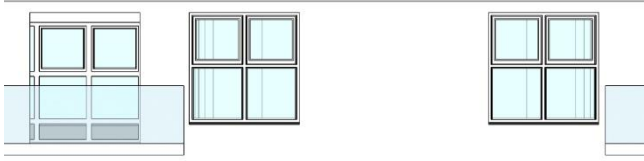


1-3 Restaurant

### View and light

- Summer climate control
- Winter climate control
- Heat recovery





White plaster

Old bricks (Dark brown)

Glass railing

Red bricks

Stone

UV Glass



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-3 Restaurant

- View and light**
- Continuous landscape
  - Brick Arch
  - Horizontal lines





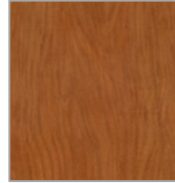
Outside : eave  
Recycled timber board



Wall, Floor  
Red brick



Ceiling  
White plaster



Window frame  
Cherry wood

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

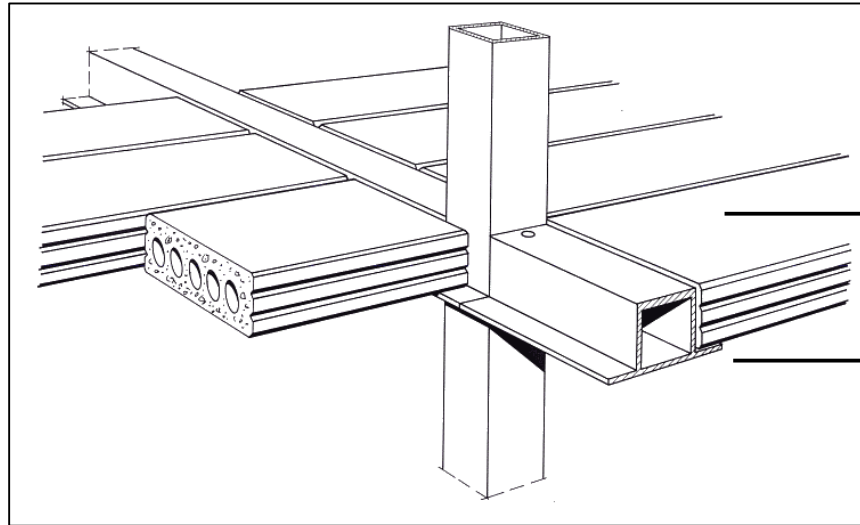
- 4-6. Visitor's route
- 4-7. Resident's route

### 1-3 Restaurant

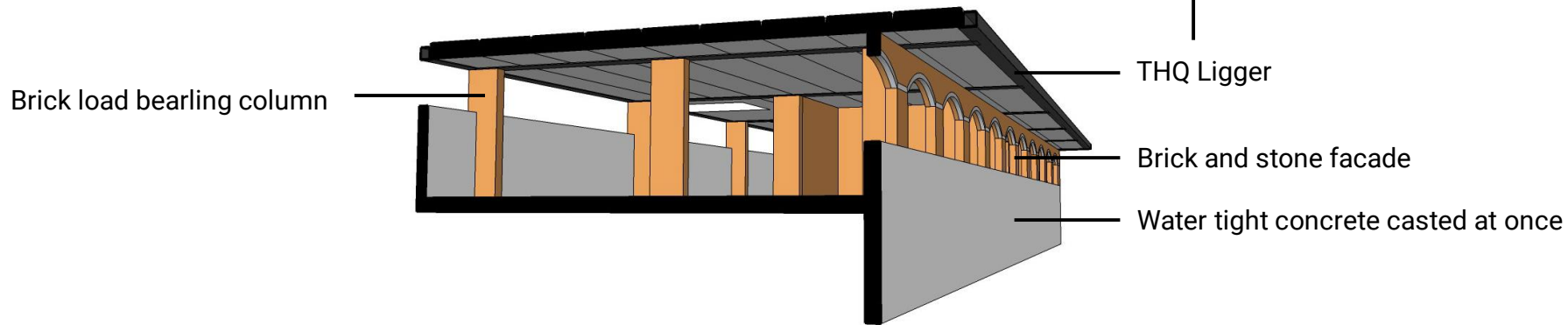
#### View and light

- Continuous landscape
- Brick floor and wall
- White ceiling for light reflection





Recycled precast hollow concrete slab



Main structure

## 4 Design

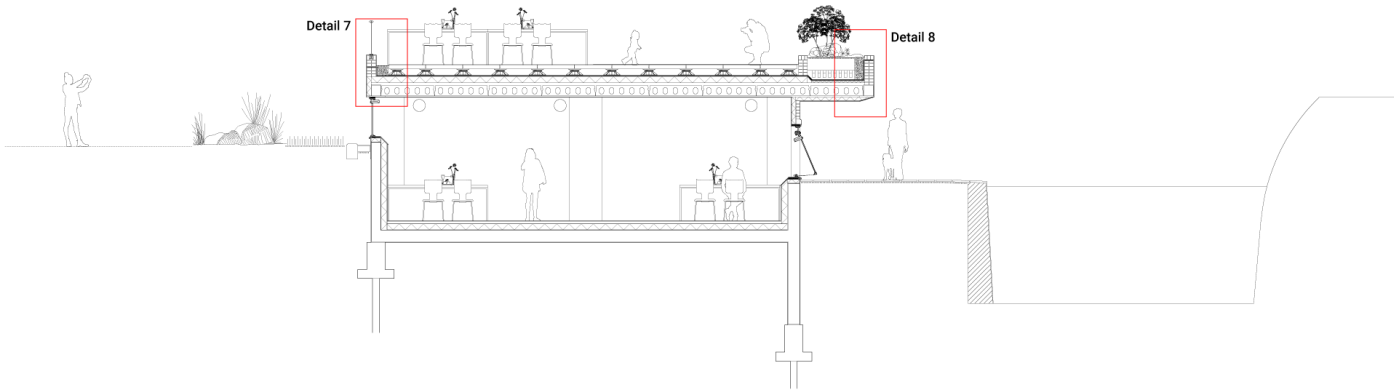
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

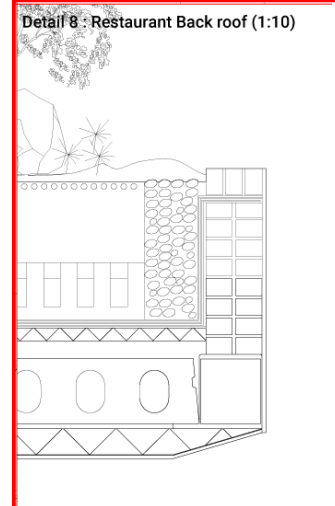
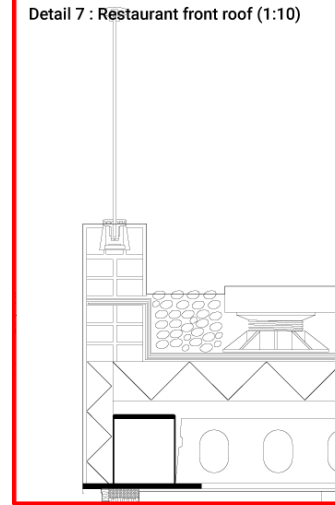
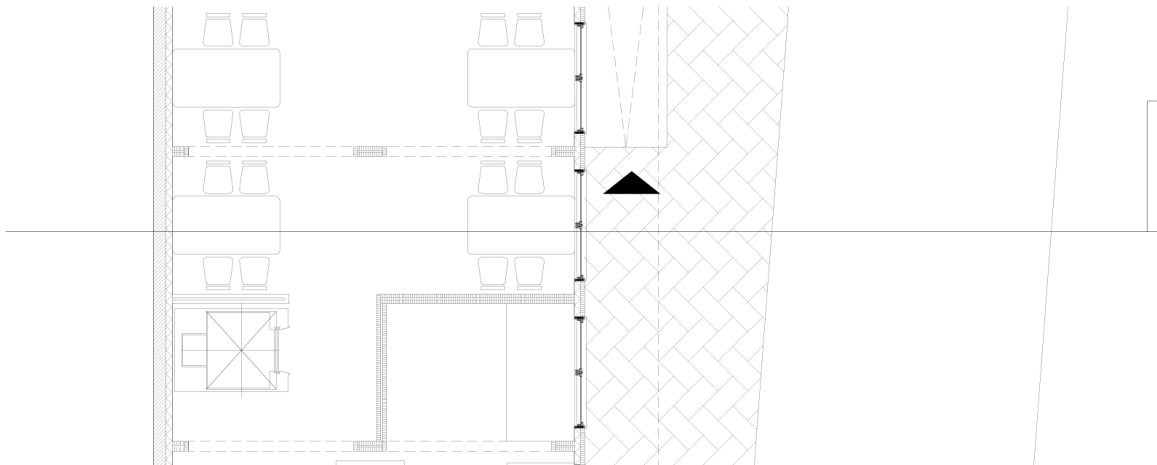
1-3 Restaurant

Structure and Detail  
-Structure diagram





Restaurant 1 : 50 vertical section (up)  
 Restaurant 1 : 50 horizontal section (down)



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-3 Restaurant

### Structure and Detail

#### Detail 7

- Citywall view roof top restaurant
- Glass railings for visual expansion of citywall
- Recycled precast hollow concrete slab

#### Detail 8

- River view roof top restaurant
- Plants railings for continuous garden landscape
- Recycled timber boards

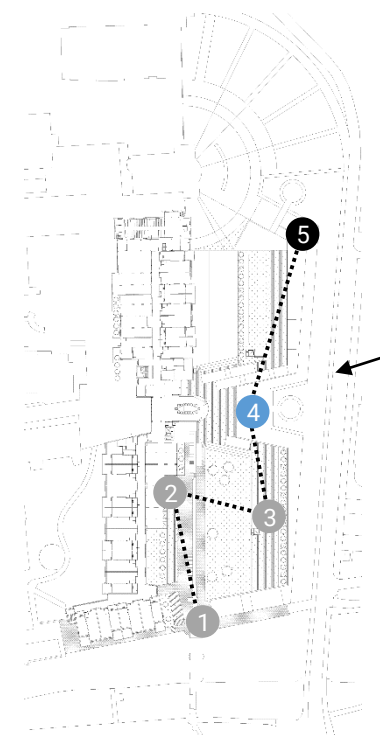
Existing situation : Tower



4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





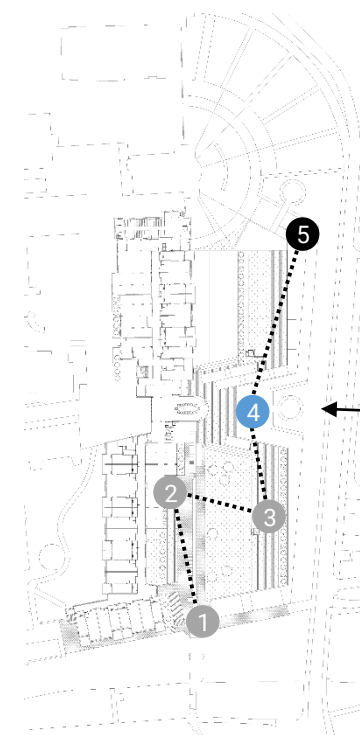
## After renovation : Water garden



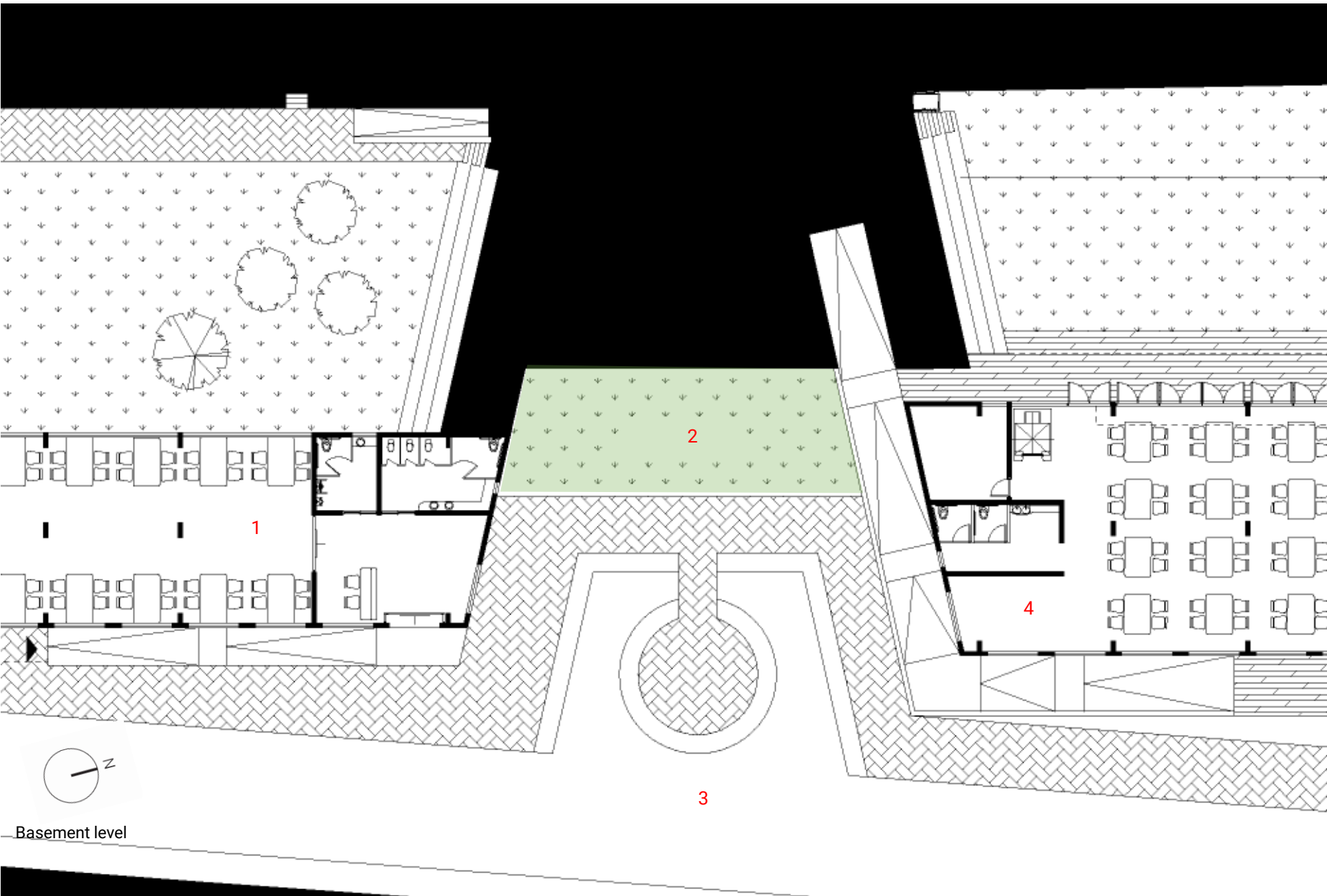
### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route







## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-4 Water garden

### Activity

- Water garden
- Tower island

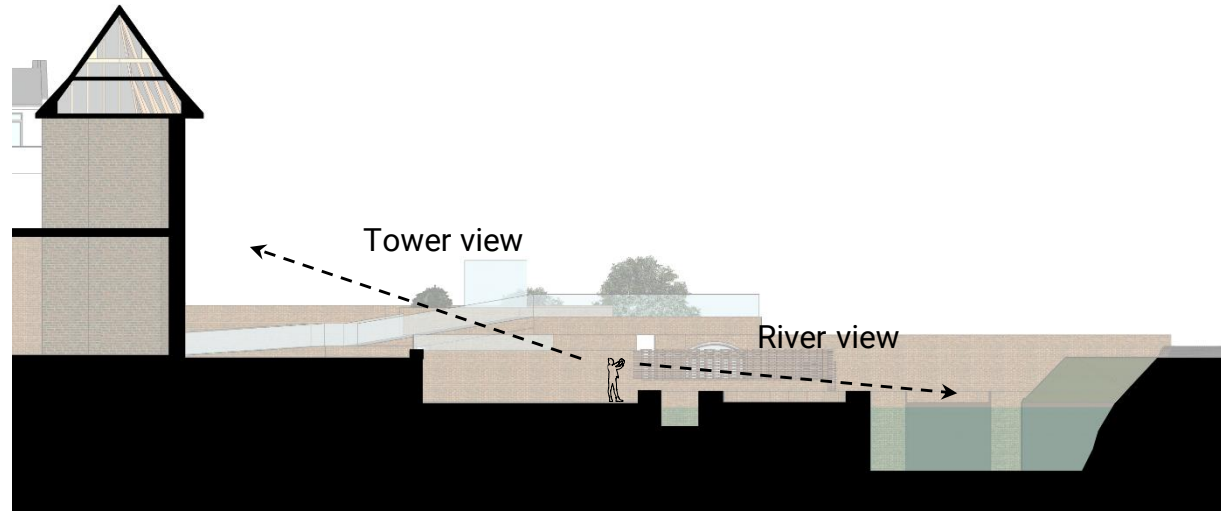
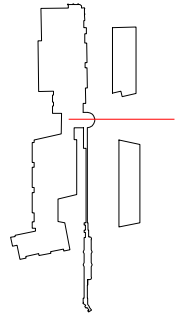
1. Restaurant
2. Garden
3. Berkel river
4. Recreation room



Precedent : Baribican center, London

<https://www.pinterest.com/pin/395331673514255593/>





## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

### 1-4 Water garden

#### View and light

- Relation with tower
- Relation with Berkel river



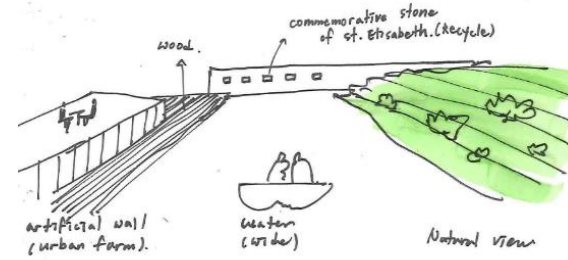
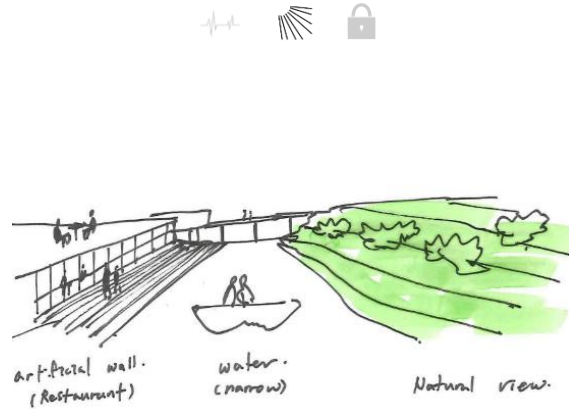




Artificial view

Water

Nature view



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

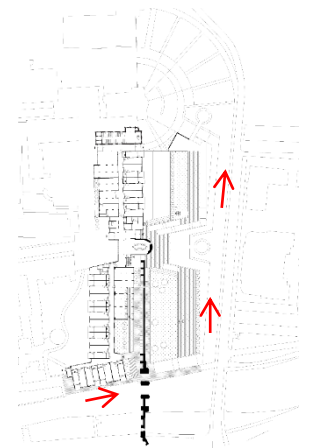
- 4-6. Visitor's route
- 4-7. Resident's route



### 1-4 Water garden

#### View and light

-Sequence of water experience





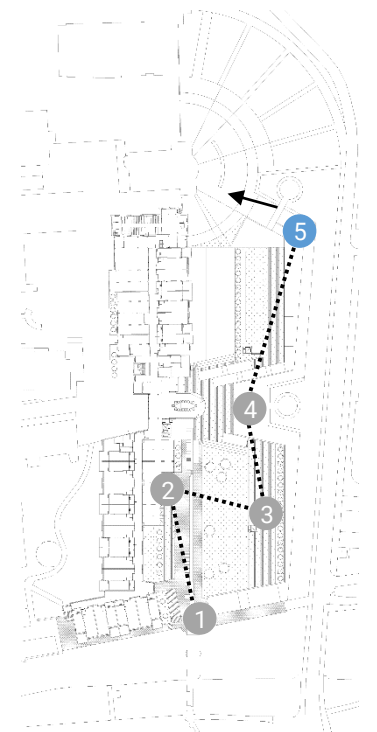
Existing situation : Tower remains and Pastorie



#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





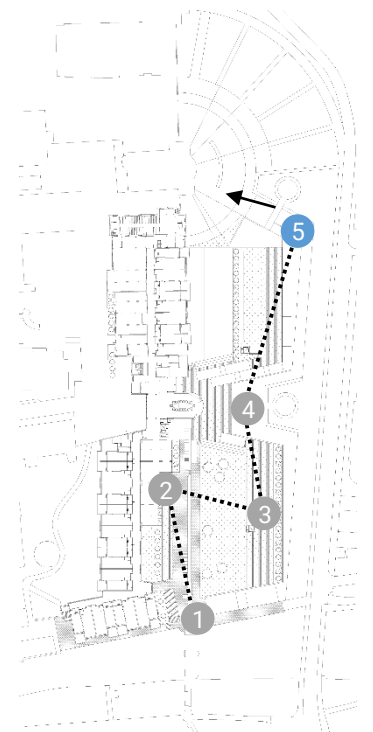
## After renovation : Music garden



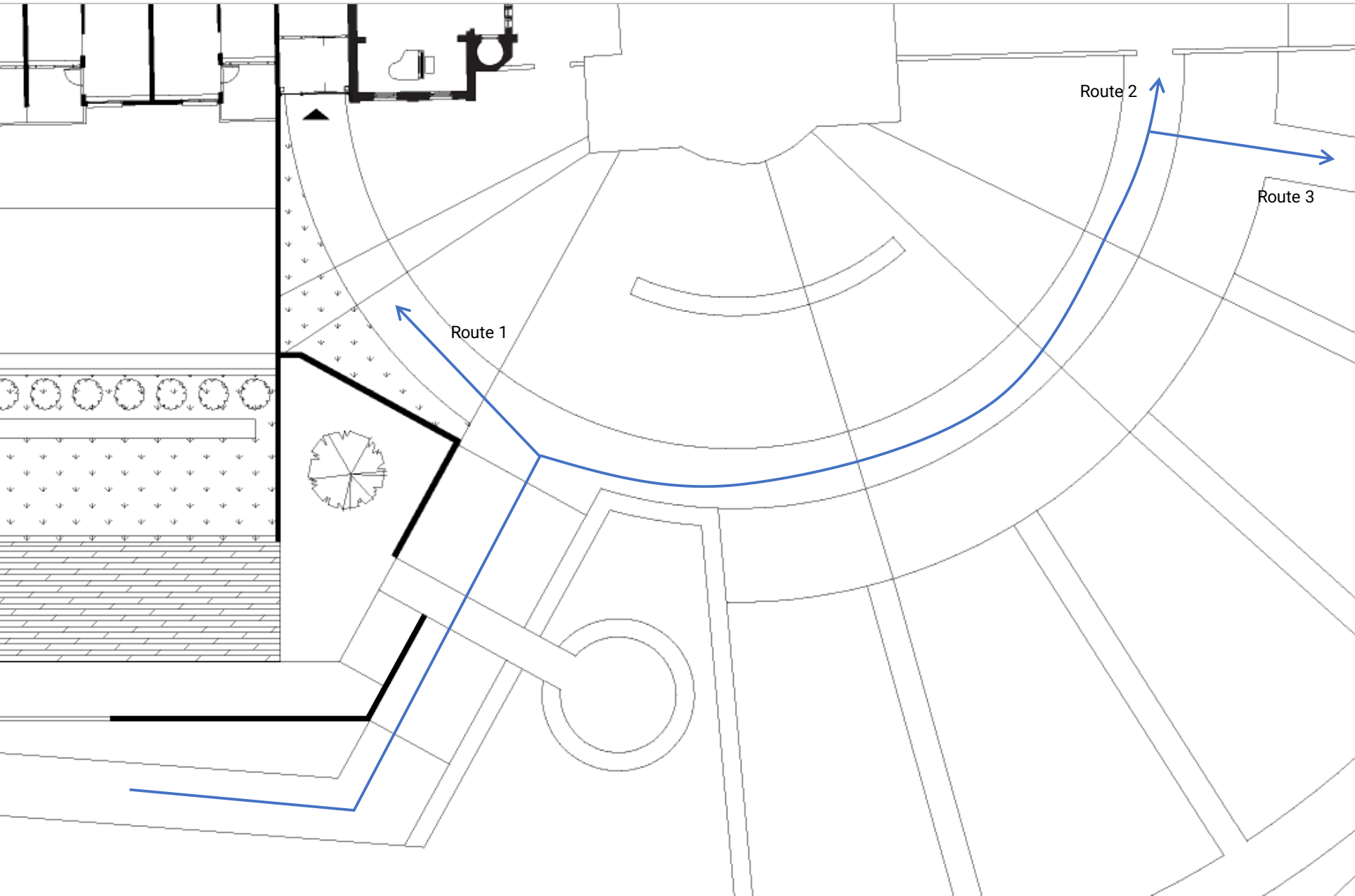
### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route







**4 Design**

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

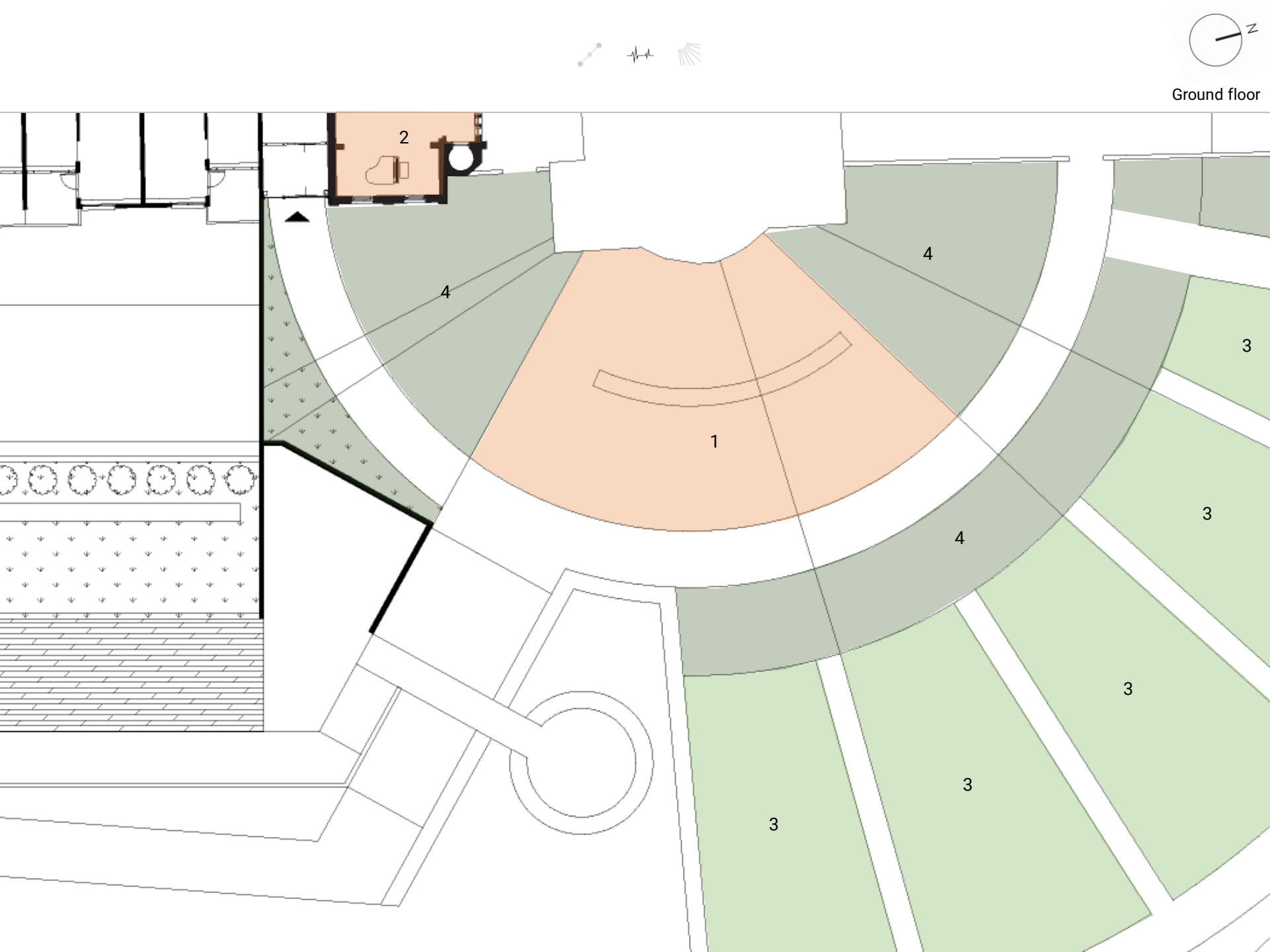
1-5 Water garden

**Accessibility**

- 1 : Route to music hall
- 2: Route to music school
- 3: Route to Beethoven park



Ground floor



**4 Design**

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

1-5 Water garden

**Activity**

- 1. Outdoor podium
- 2. Music hall
- 3. Vegetable garden
- 4. Grass



Precedent : Vegetable farm, Villa Augustus  
[https://www.tripadvisor.com/LocationPhotoDirectLink-g188627-d1828608-i175881564-Villa\\_Augustus-Dordrecht\\_South\\_Holland\\_Province.html](https://www.tripadvisor.com/LocationPhotoDirectLink-g188627-d1828608-i175881564-Villa_Augustus-Dordrecht_South_Holland_Province.html)





History board  
Stone



Podium  
Stone tile



Path, Wall  
Red brick



Heritages  
Old brown brick



1-5 Water garden

View and light  
Continuous landscape  
-Commemorative stones

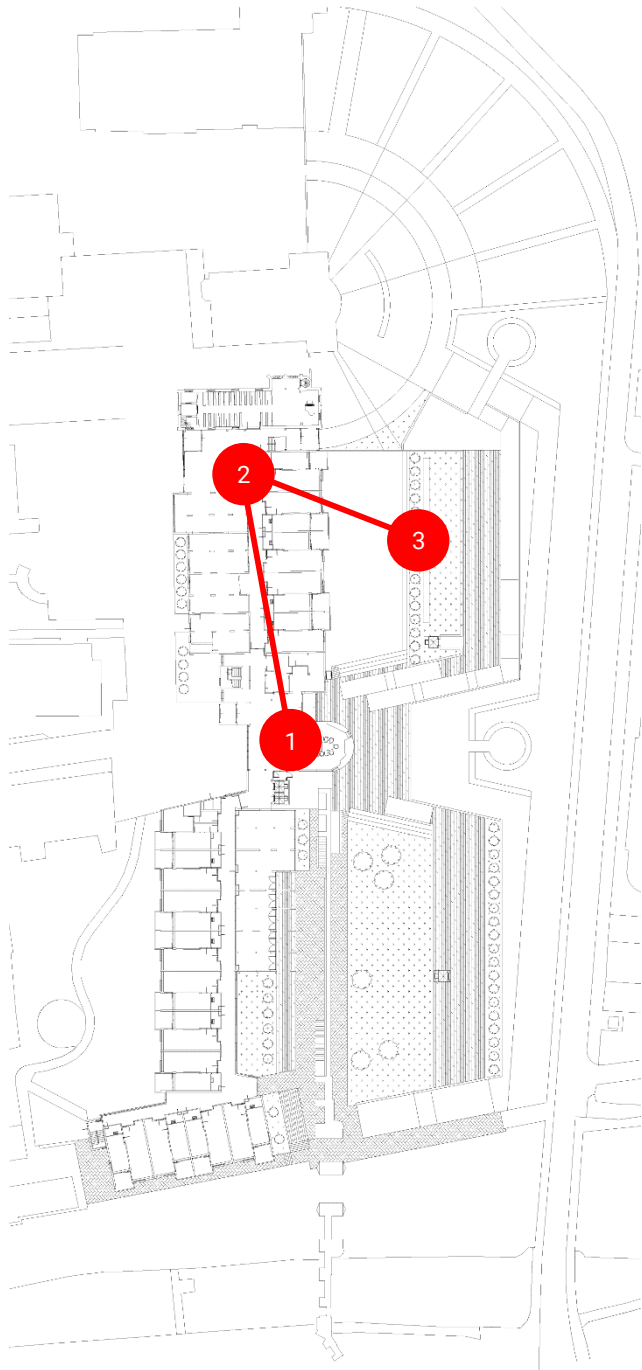


## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





## Two different main routes

### 1. Visitor's route

- 1-1 Entrance to garden
- 1-2 Citywall center
- 1-3 Restaurant
- 1-4 Water garden
- 1-5 Music garden

### 2. Resident's route

- 2-1 Main entrance
- 2-2 Music hall
- 2-3 Recreation room

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



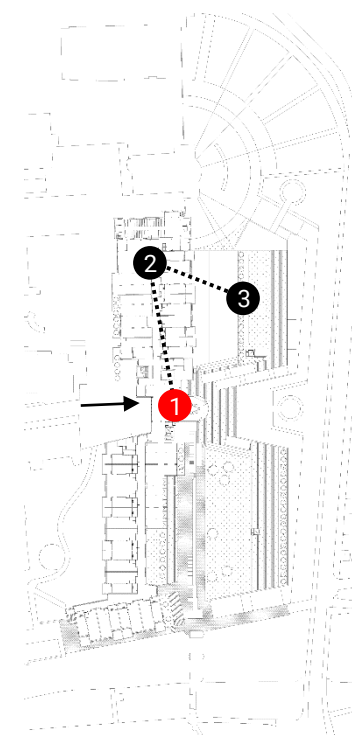
## Existing situation : Main entrance



### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





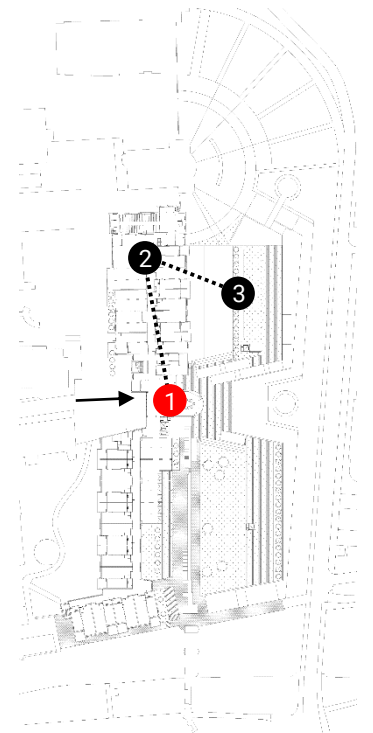
After renovation : Main entrance



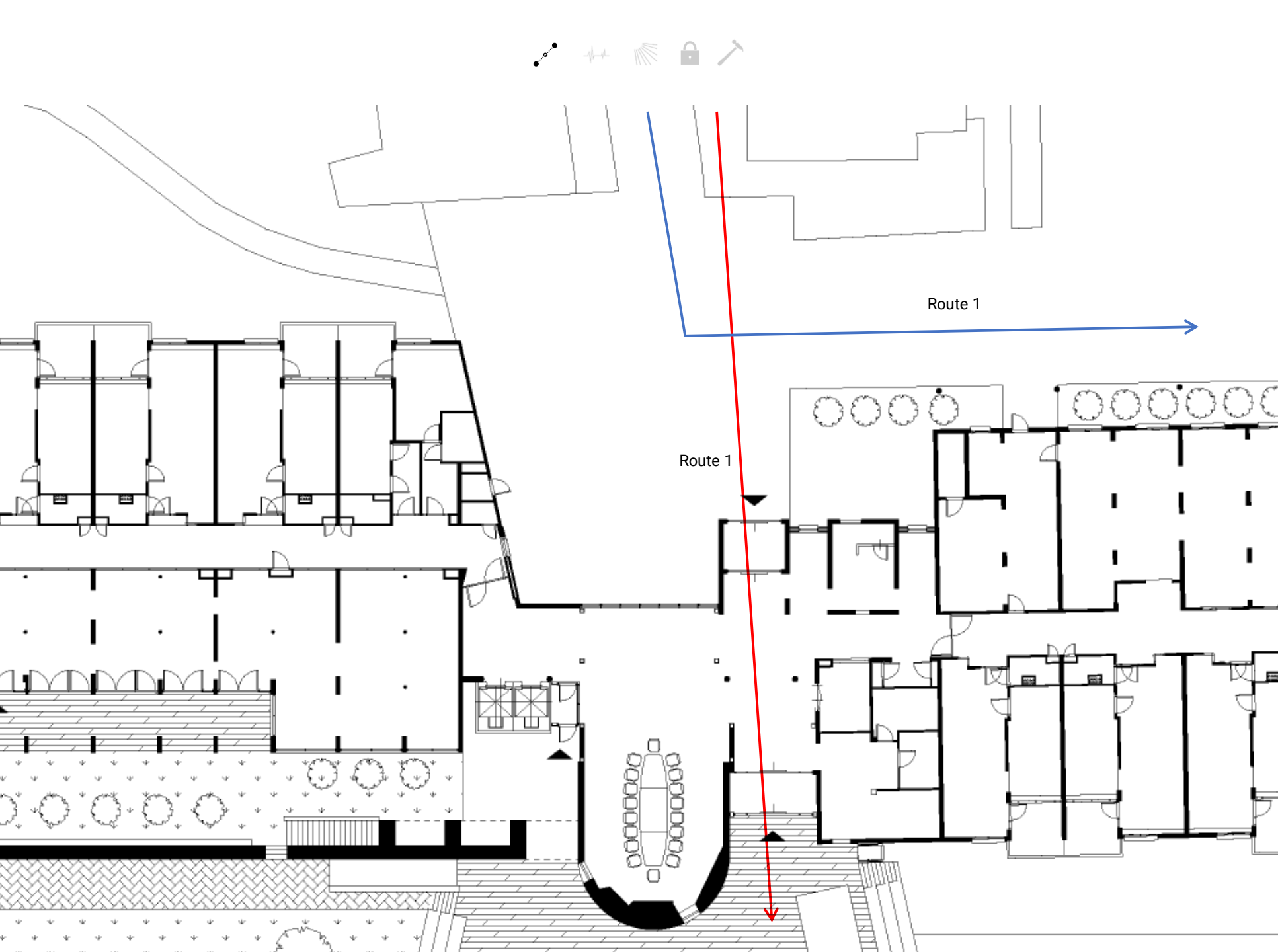
#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route







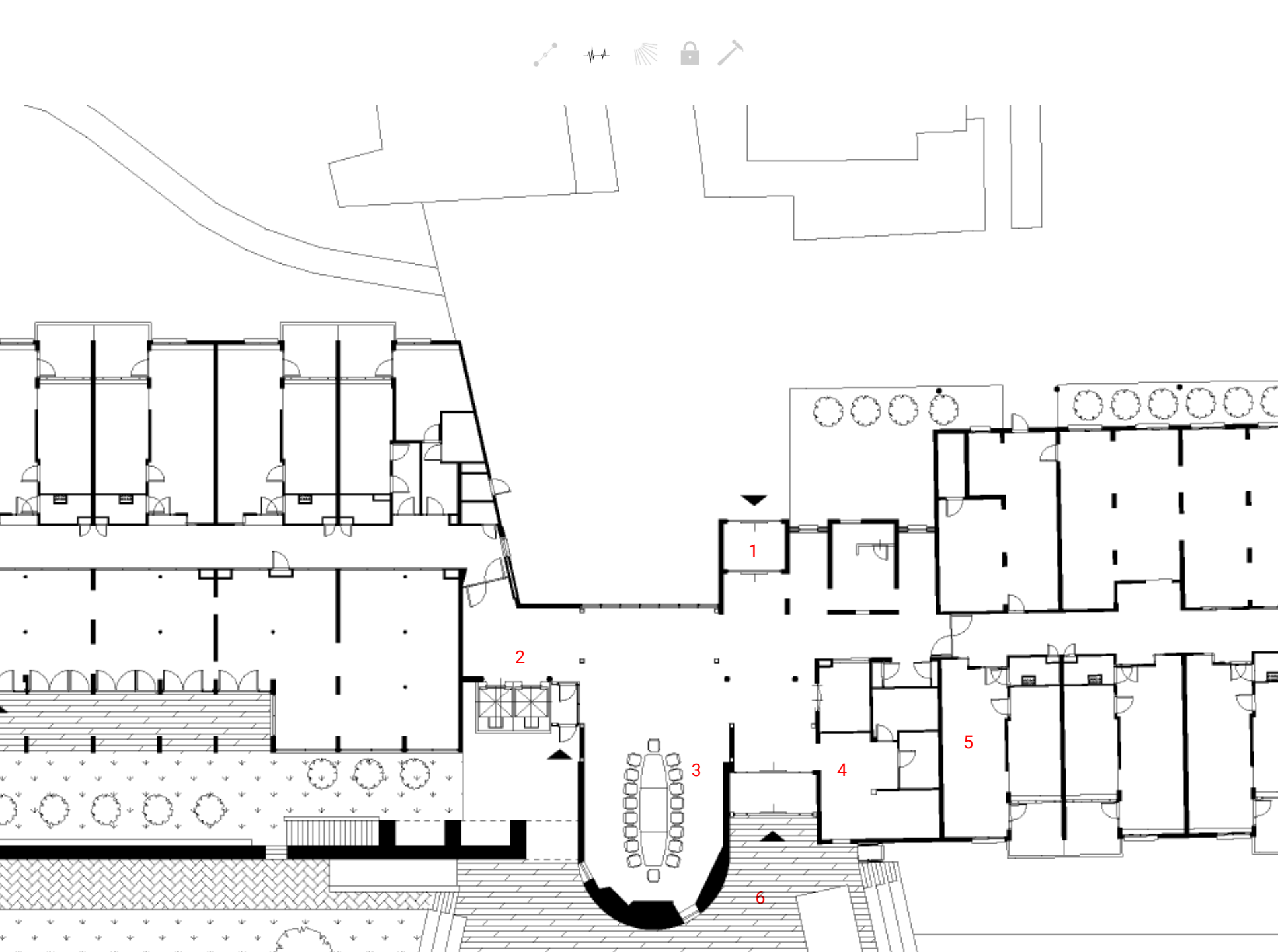
**4 Design**

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
- 4-6. Visitor's route
- 4-7. Resident's route

- 2-1 Main entrance  
**Accessibility**  
 1. Pedestrian route  
 2. Car route  
 -Connectivity



Ground floor



**4 Design**

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-1 Main entrance

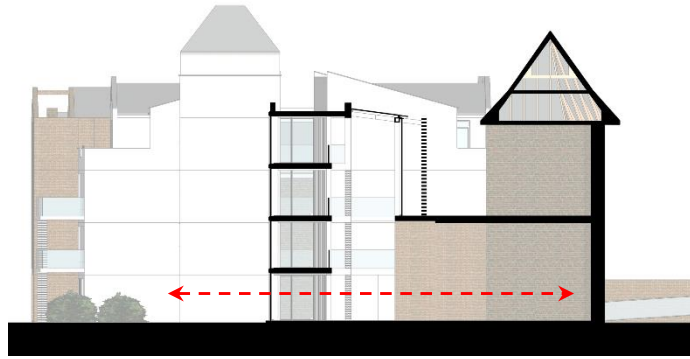
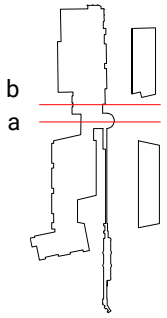
**Activity**

- 1. Tower entrance
- 2. New elevator
- 3. Community zone
- 4. Service room
- 5. Housing unit
- 6. Tower terrace

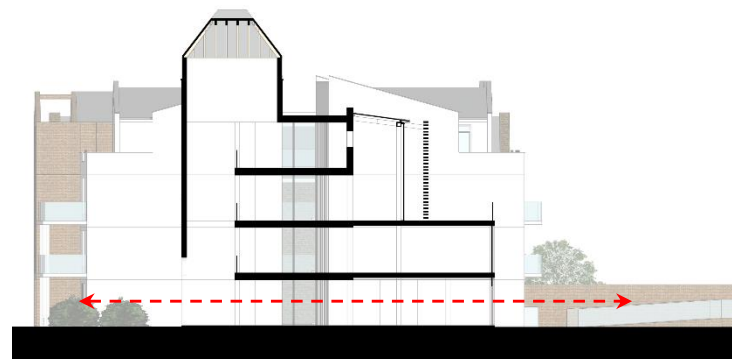


Ground floor





Section a



Section b

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

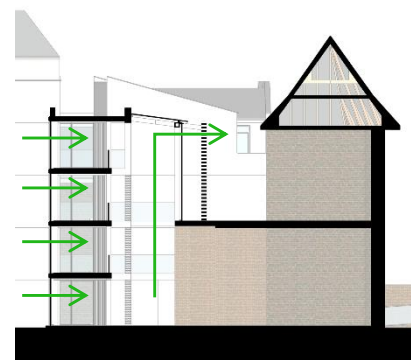
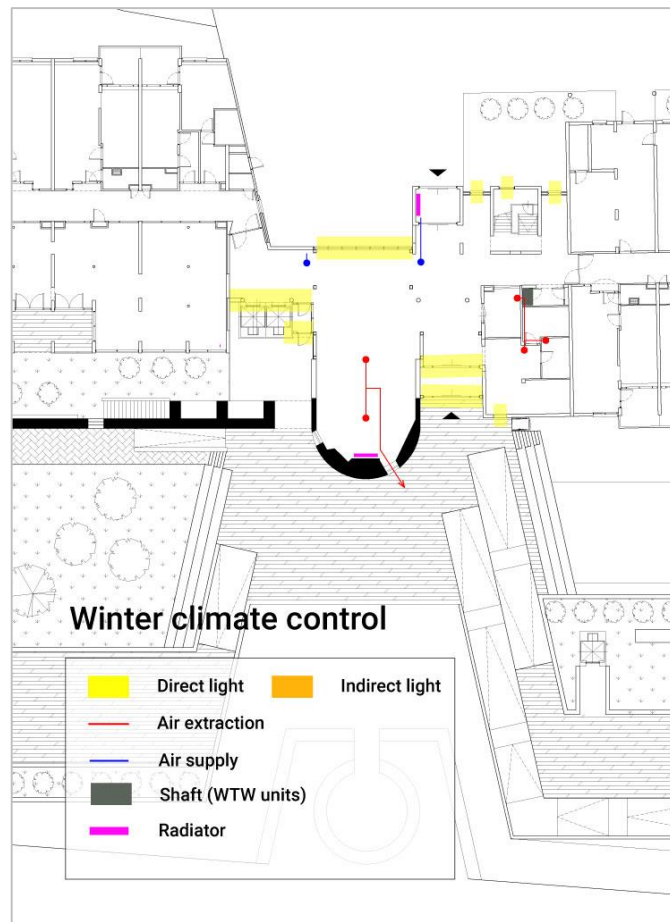
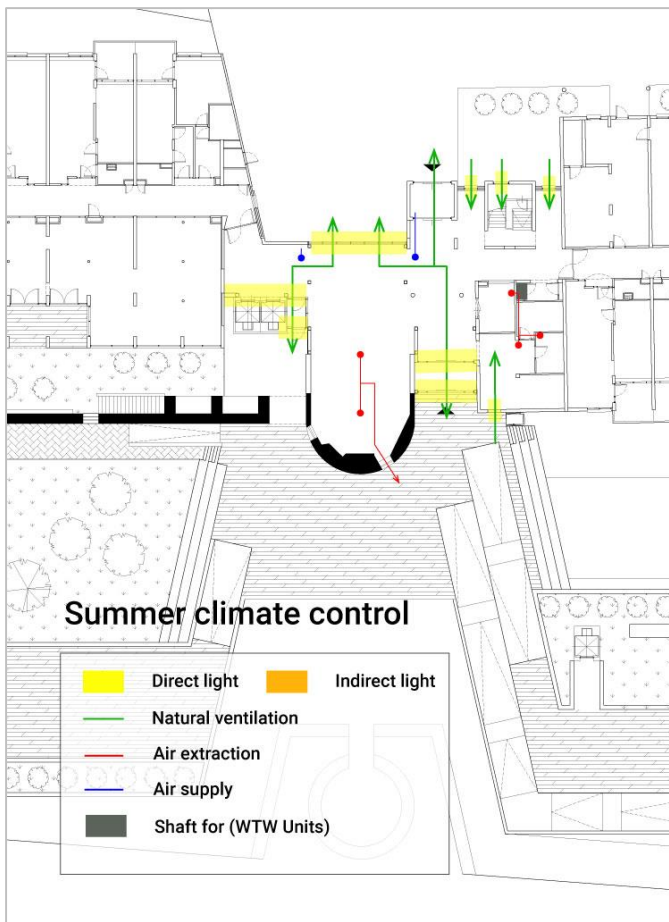


2-1 Main entrance

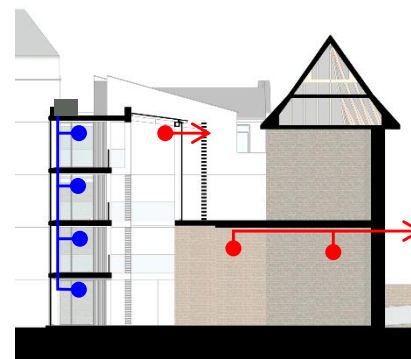
View and light

-Relation with tower

-Direct connect to garden



Summer



Winter

## 4 Design

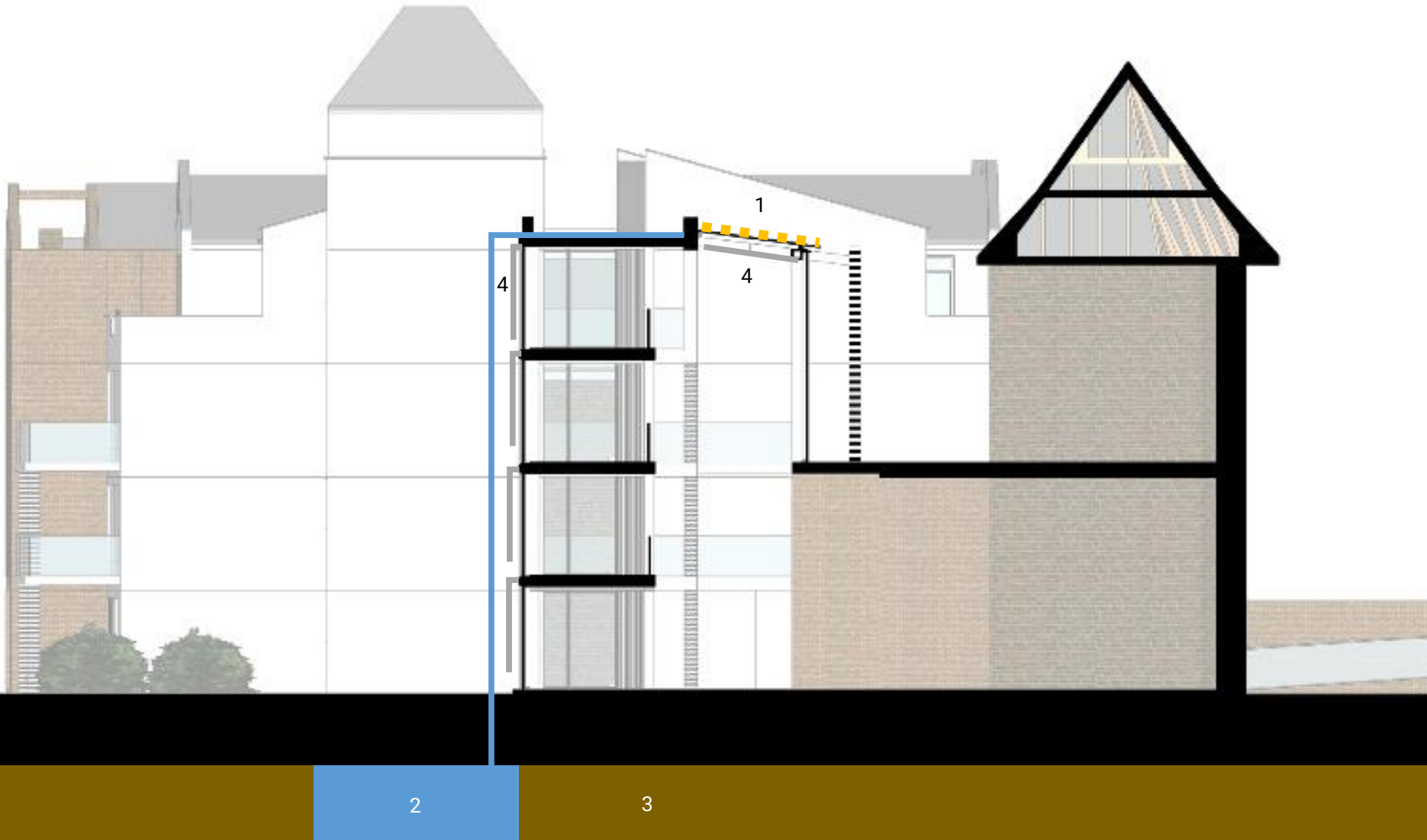
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

- 2-1 Main entrance  
 View and light  
 -Summer climate control  
 -Winter climate control







## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

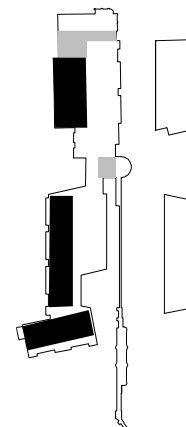
- 4-6. Visitor's route
- 4-7. Resident's route

2-1 Main entrance

**View and light**

- 1. Photovoltaic solar panels
- 2. Rain harvesting
- 3. Geothermal heat
- 4. Sun screen

Solar panel arrangement



Transparent solar panel

Polycrystalline Panel



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

- 2-1 Main entrance
- View and light
- Façade materials
- Anti reflective glass

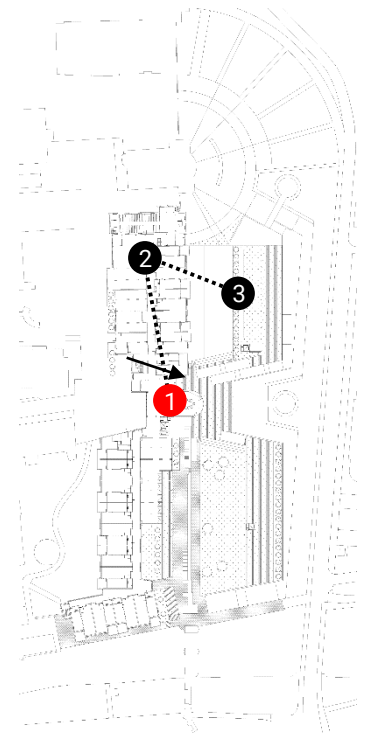




## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



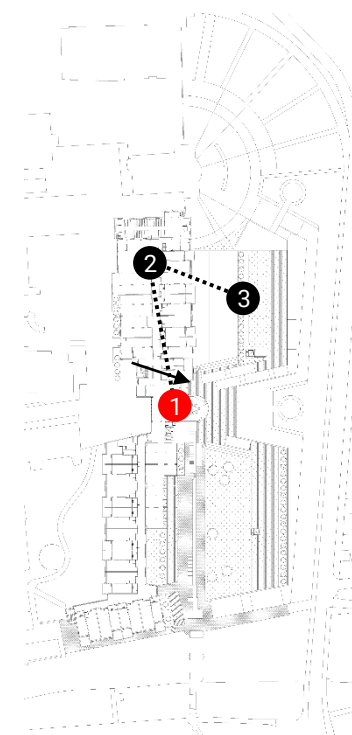


## After renovation : Central lobby

### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



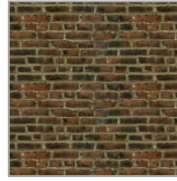




### Tower environment



Perforated red bricks

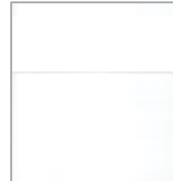


Heritages  
Old brown brick



Wall, ceiling  
Red bricks

### Residence



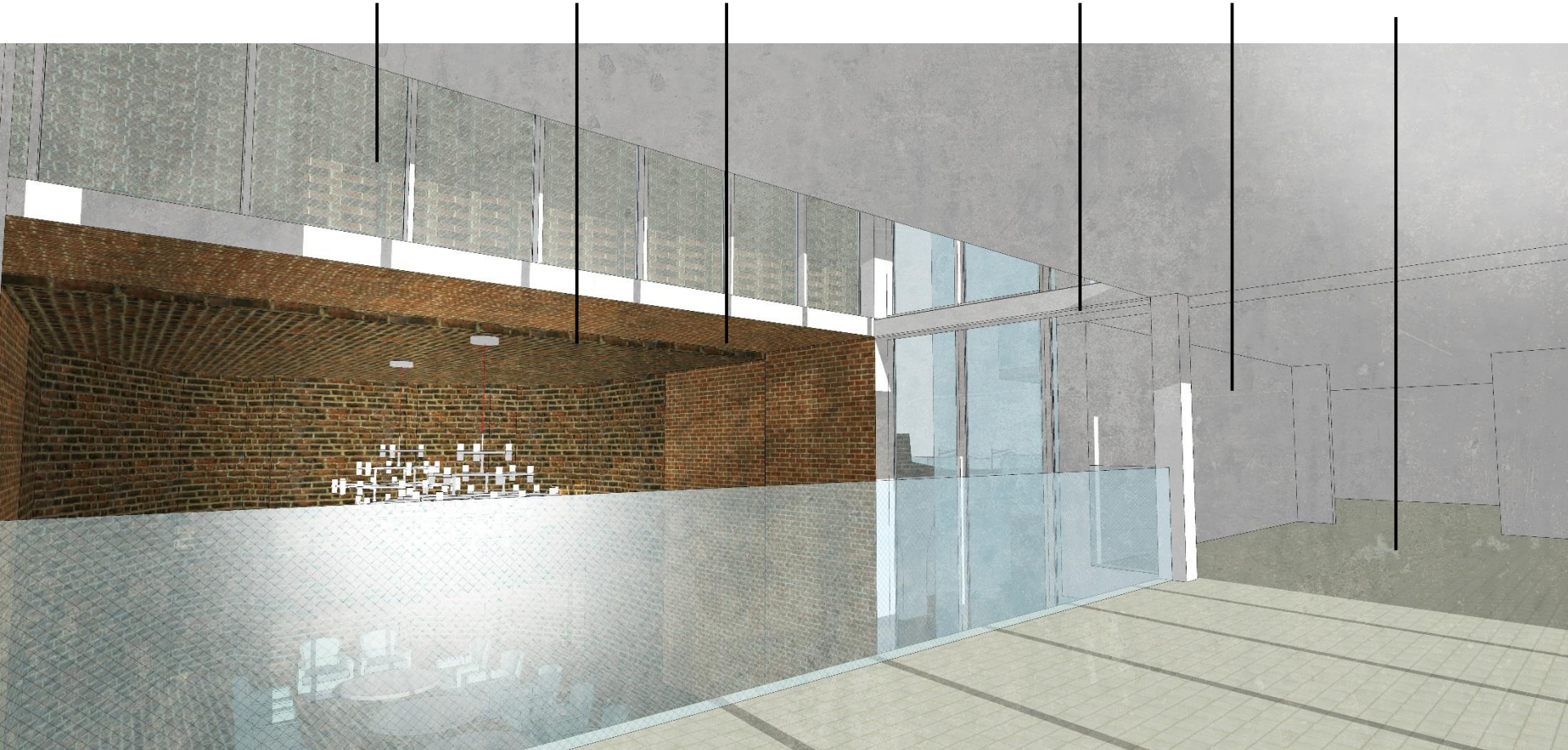
White painted  
Steel



Wall ceiling  
White plaster



Floor  
White terrazzo tile  
20cm\*20cm



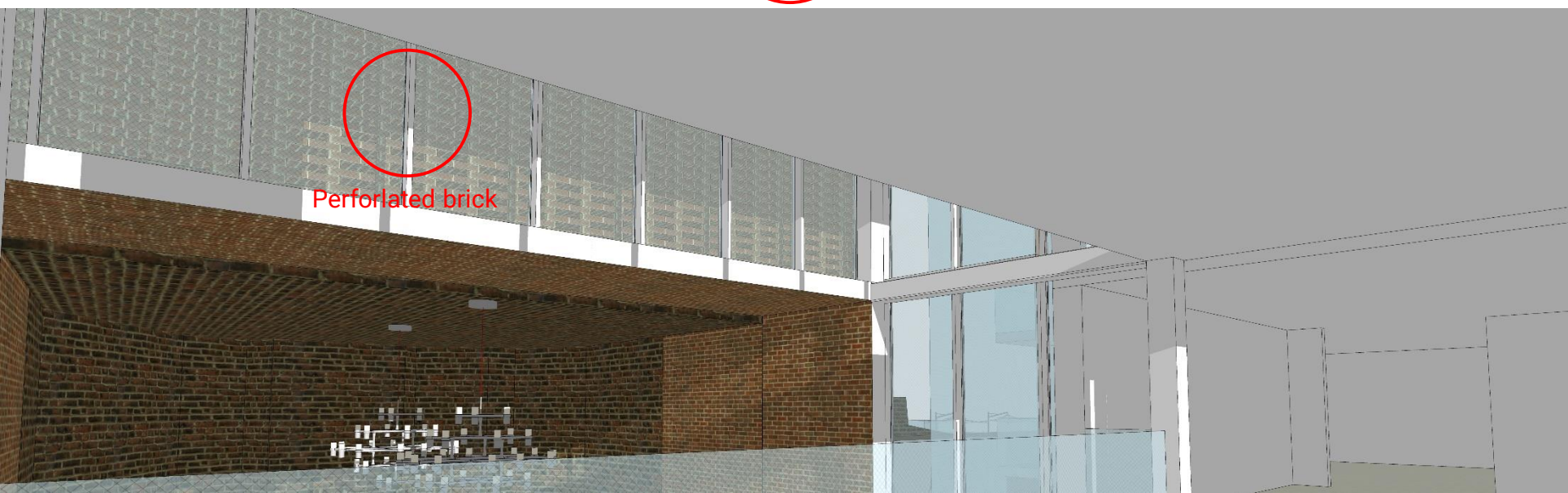
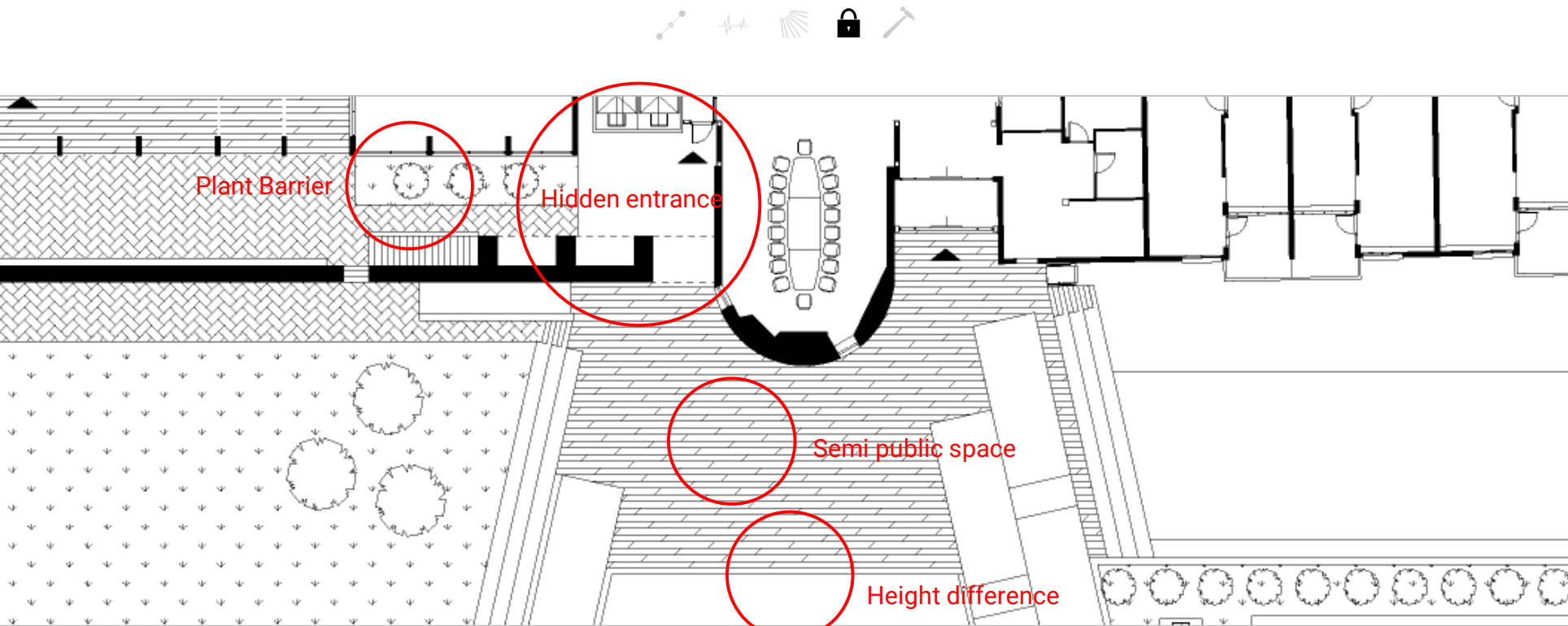
## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-1 Main entrance  
View and light  
-Interior materials





#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-1 Main entrance

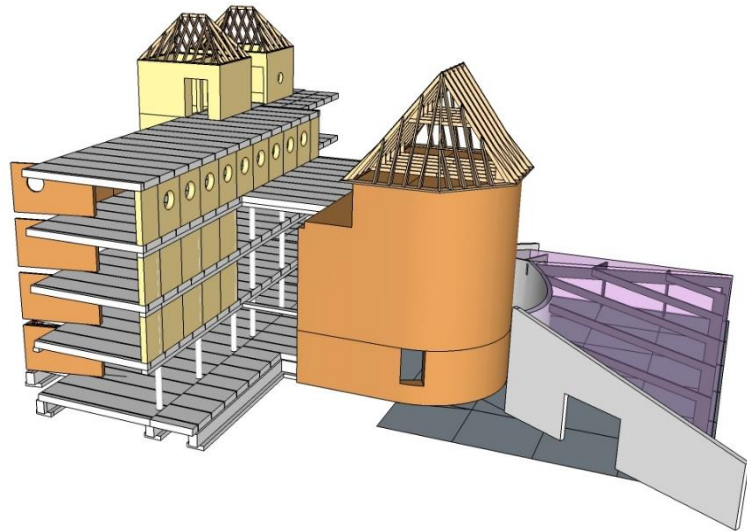
Privacy

- 1. Perforated brick façade
- 2. Plant barrier
- 3. Hidden entrance
- 4. Semi public space
- 5. Height difference



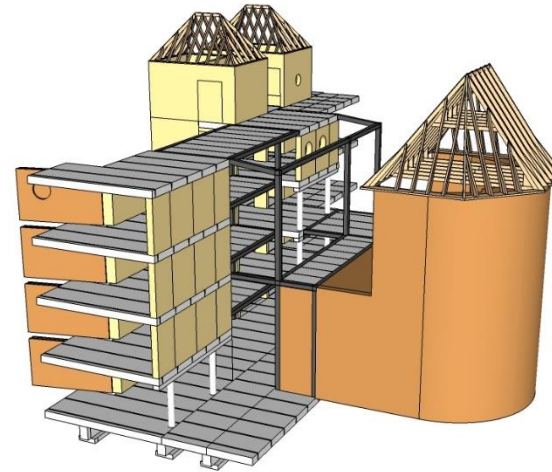
Ground floor





Load bearing wall structure with 250mm  
Precast hollow concrete slab

Before



Steel frame structure with  
150mm precast hollow concrete slab

After

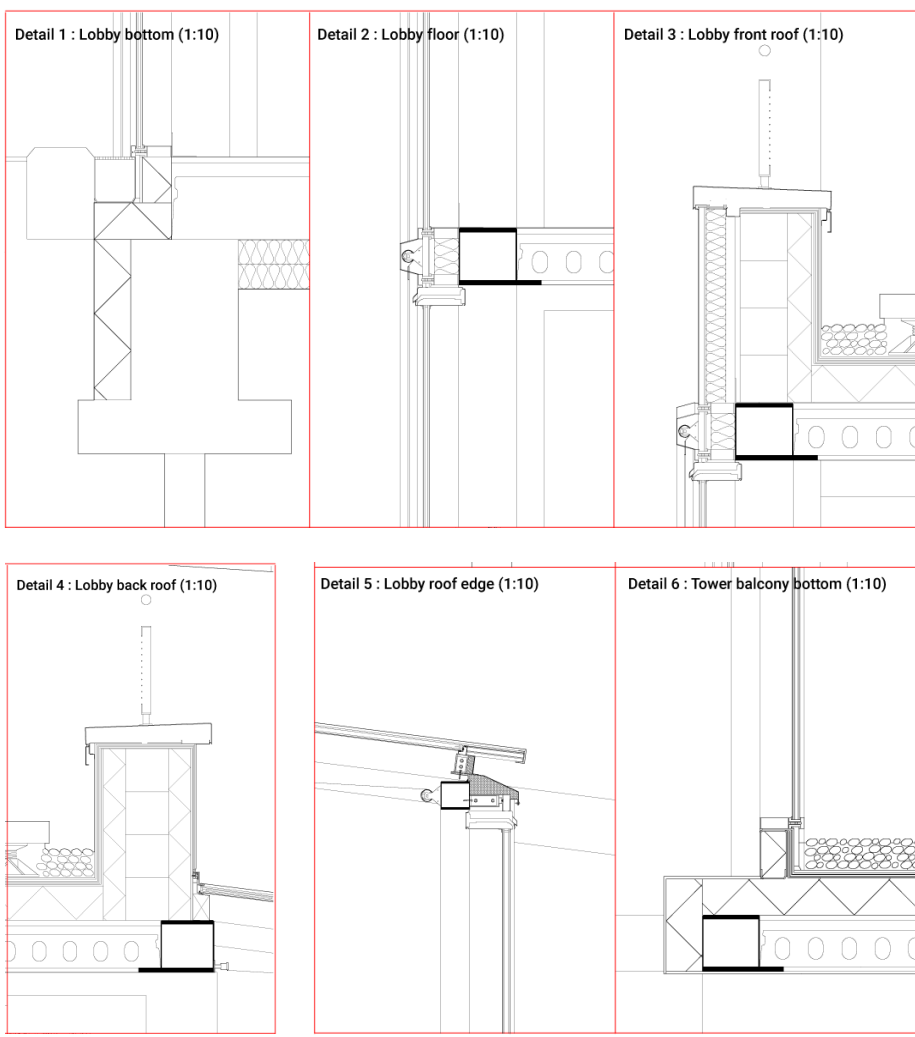
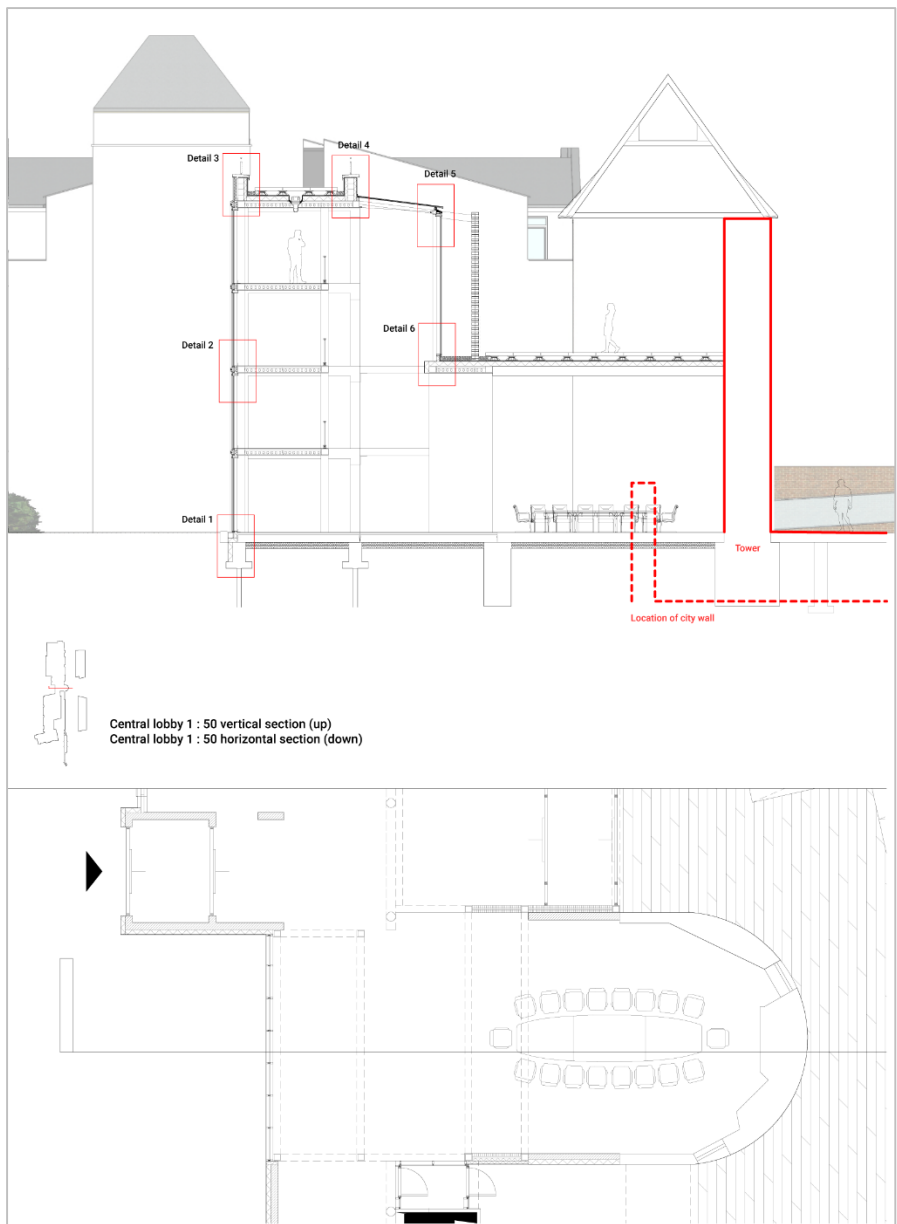
- Brick
- Sandlime brick stone
- Concrete
- Wood
- Steel

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

- 2-1 Main entrance
- Structure and detail
- Structure diagram
- Light structure



Thin and slim slabs and transparent façade to maximize tower exposure

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
- 4-6. Visitor's route
- 4-7. Resident's route

2-1 Main entrance  
Structure and detail

Detail 1 :  
-Glass curtain wall to expose tower behind.  
-Reuse existing floor

Detail 2 :  
-Thin and slim slabs to maximize tower exposure  
-Sustainable climate control through sun shades and ventilation windows

Detail 4 :  
-Skylight for natural light  
-Solar panel to generate energy  
-Green house roof

Detail 6 :  
-Glass curtain wall to expose tower  
-Perforated wall for privacy issue



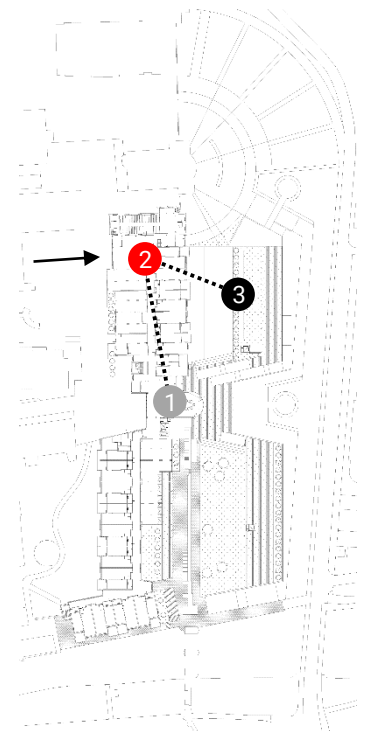
Existing situation : Chapel



4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





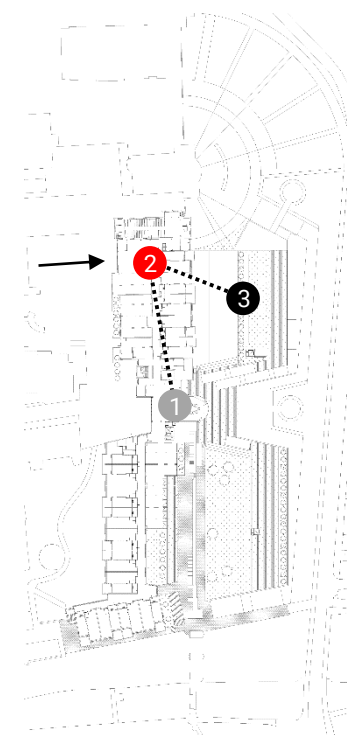
After renovation : Music hall



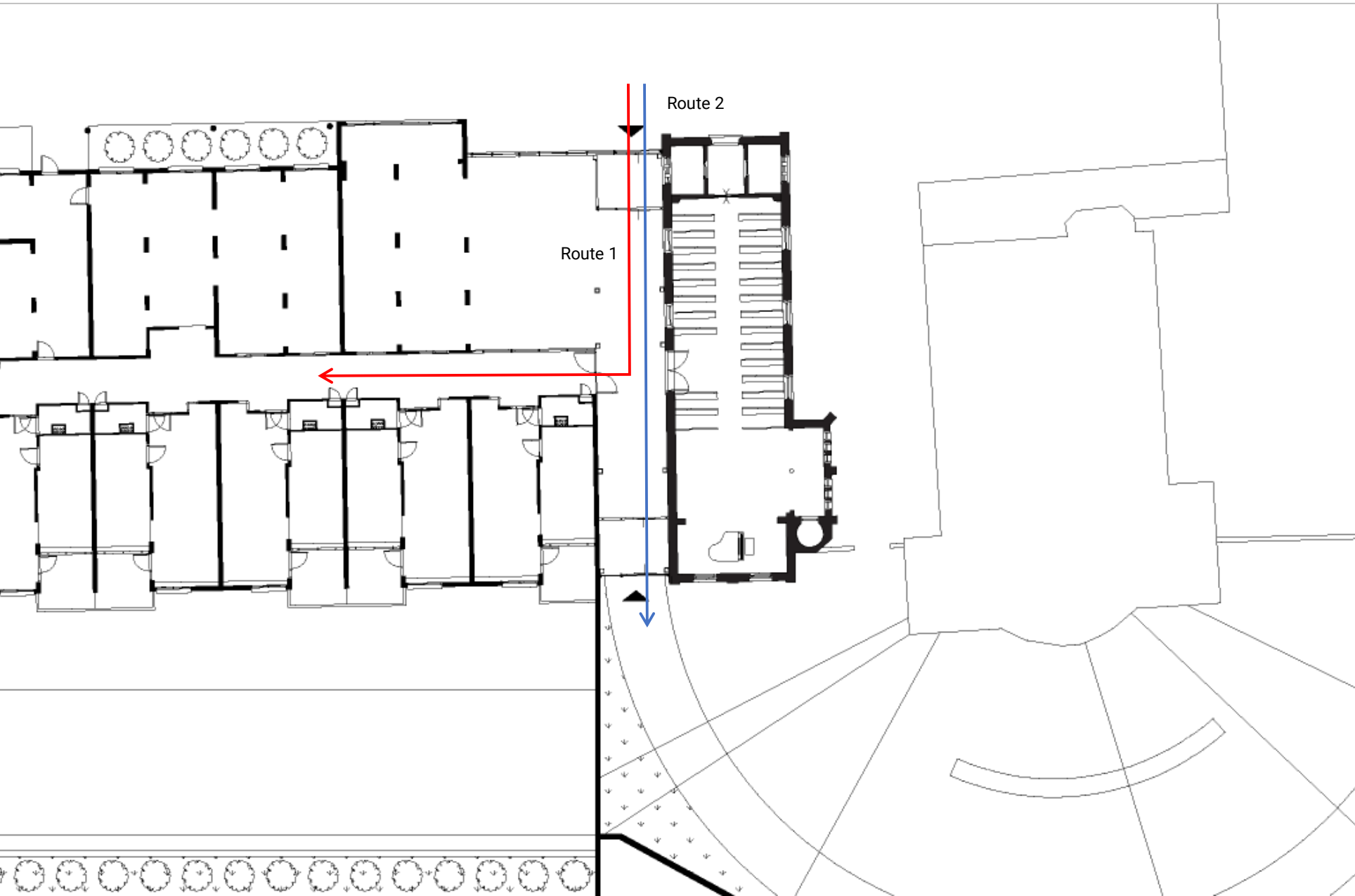
#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route







## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-2 Music hall

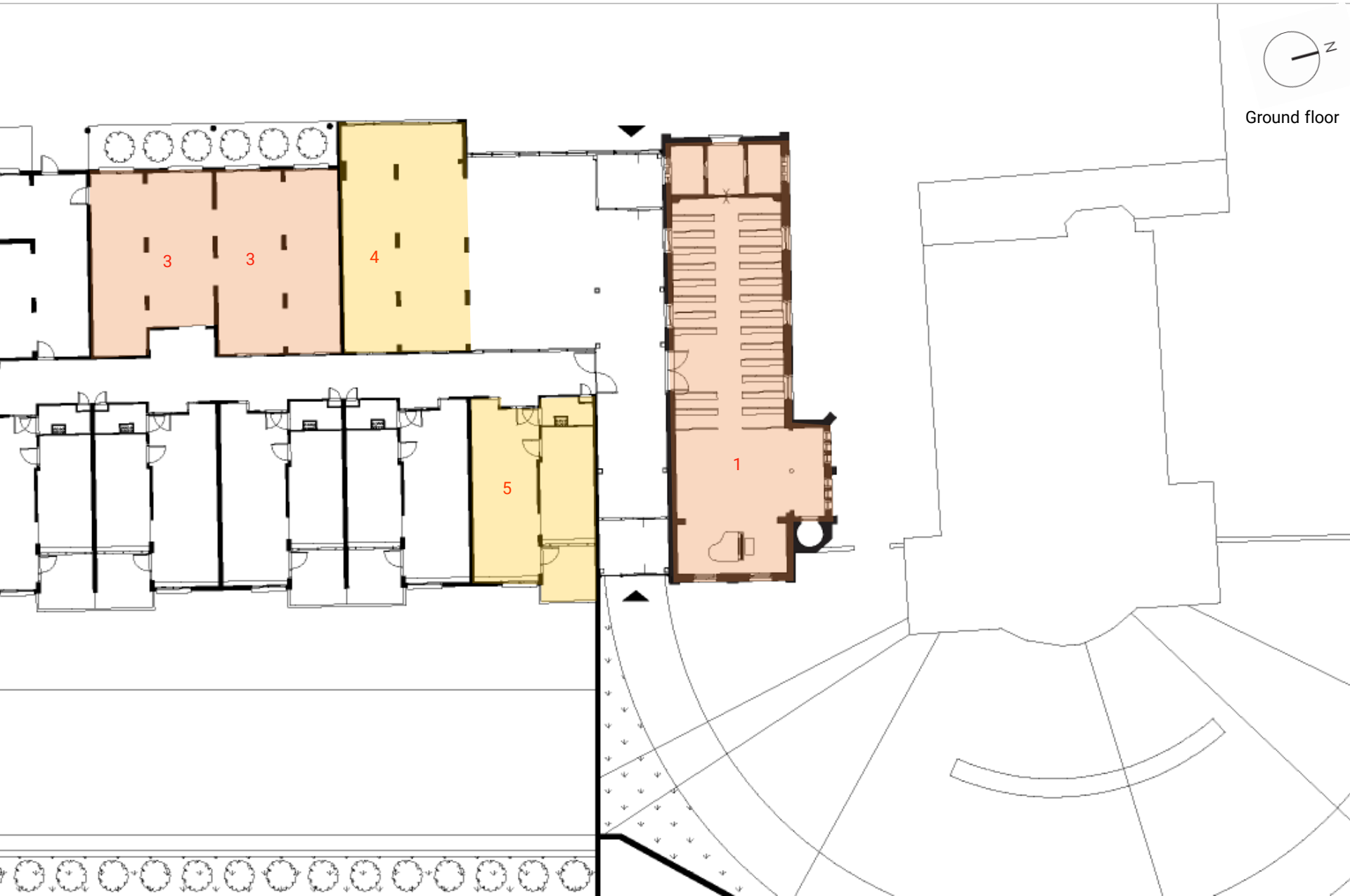
**Accessibility**

- 1. Resident route
- 2. Visitor's route

-Direct connect to garden



Ground floor



## 4 Design

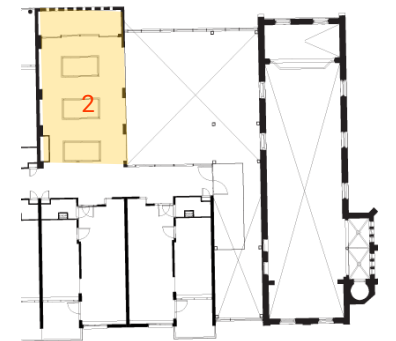
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-2 Music hall

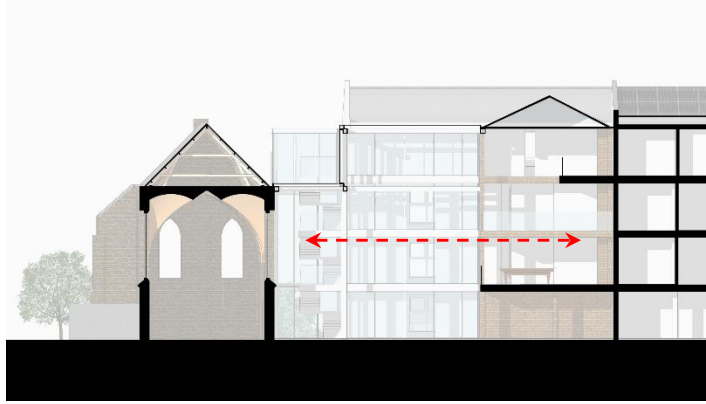
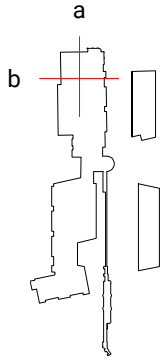
**Activity**

- 1. Music hall
- 2. Community zone
- 3. Music therapy center
- 4. Administrative office
- 5. Housing unit

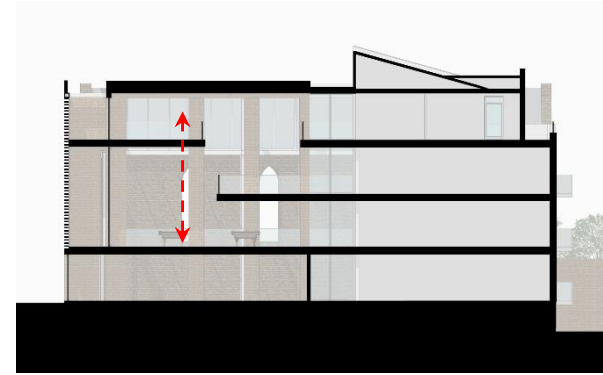


First floor





Section a



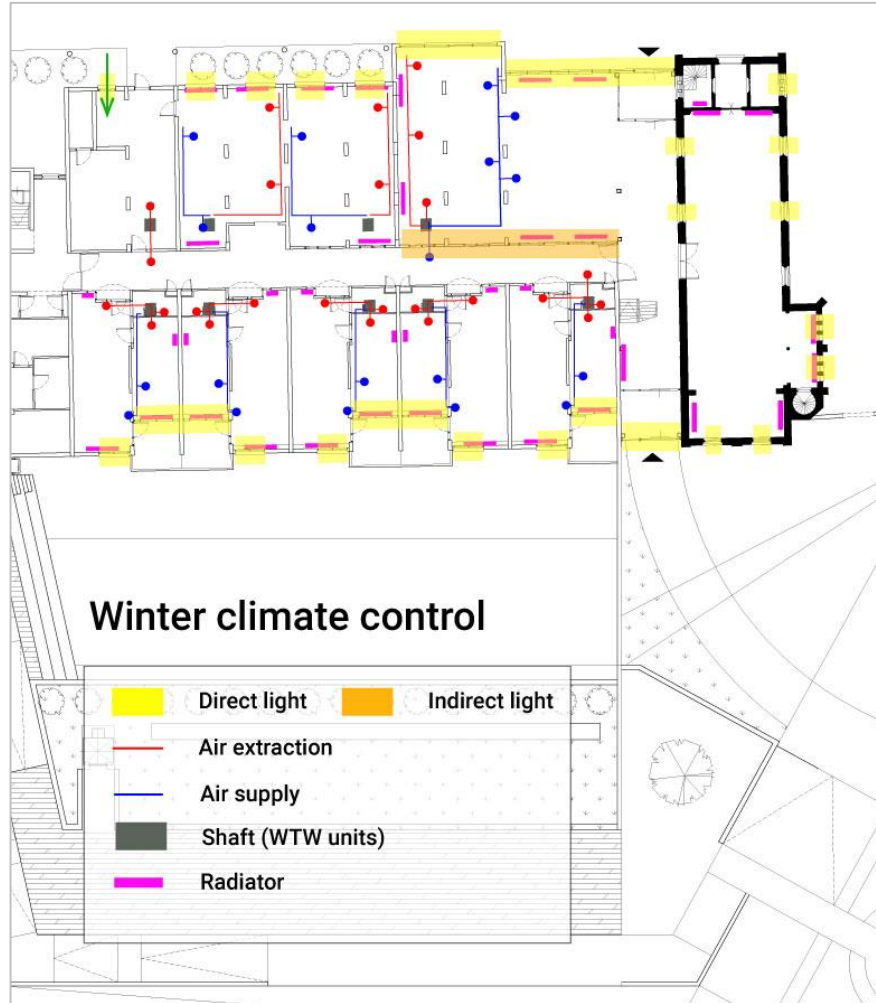
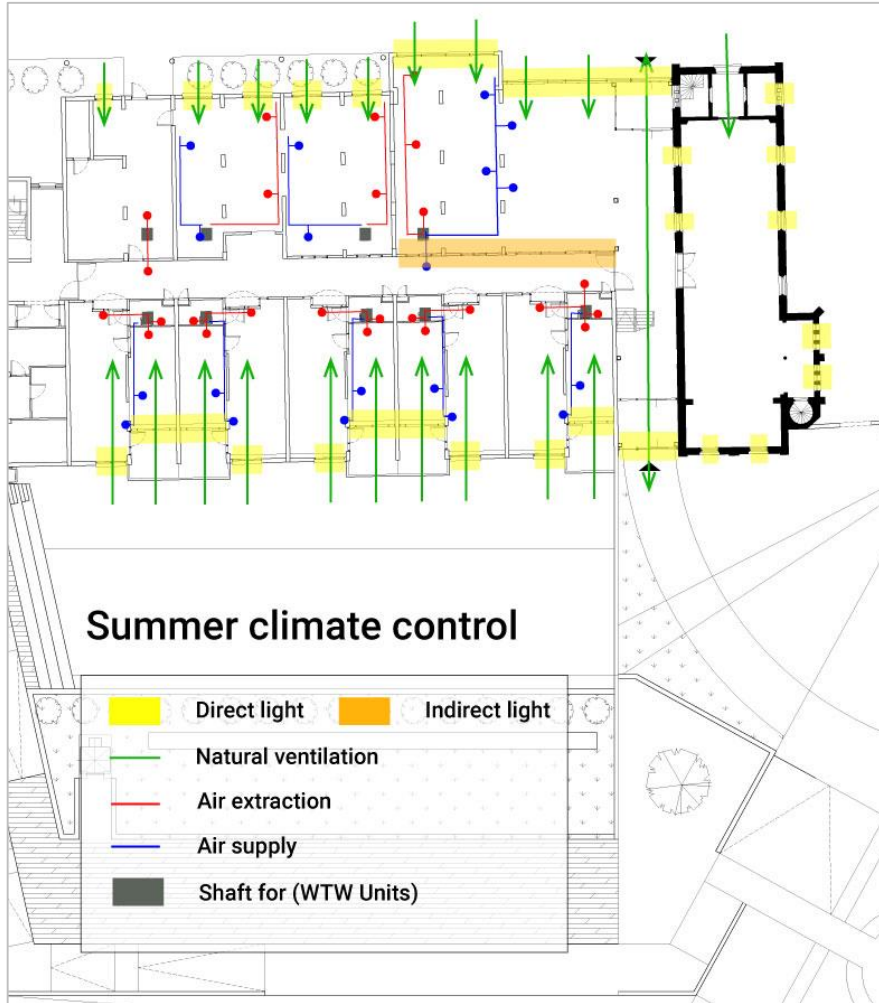
Section b



**4 Design**

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan
- 4-6. Visitor's route
- 4-7. Resident's route

2-2 Music hall  
**View and light**  
 -Relation with chapel  
 -Community Zone



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

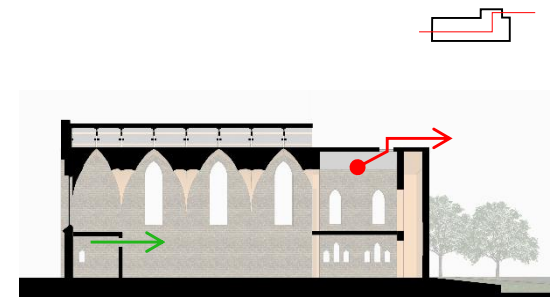
- 4-6. Visitor's route
- 4-7. Resident's route

2-2 Music hall

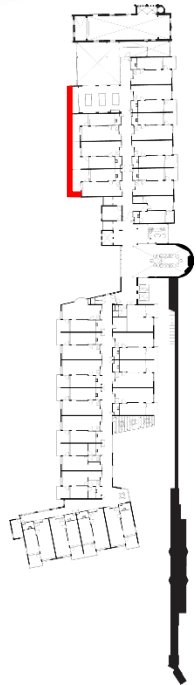
View and light

- Summer climate control
- Winter climate control

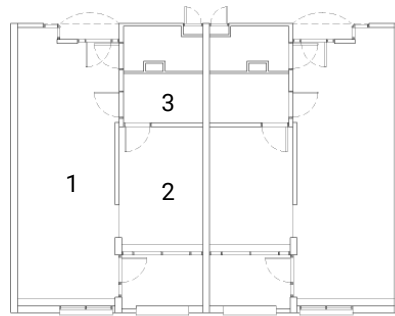
-Music hall



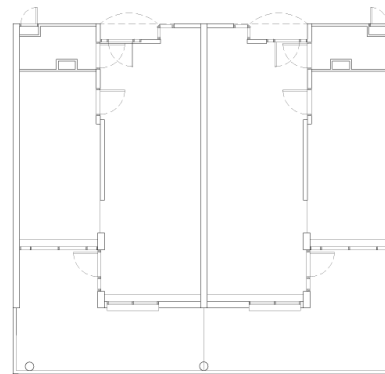




First floor plan



Current situation



2.5m extension

- 1 Livingroom
- 2 Bedroom
- 3 Restroom

- Balcony is placed above the parking lot
- Column can be used to support balcony since it has enough ground space.

- Maximum balcony extension (2.5m) provides winter garden
- Parking lot view can be replaced by winter garden view.

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

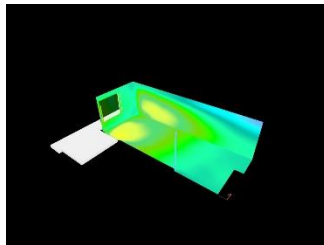
- 4-6. Visitor's route
- 4-7. Resident's route

- 2-2 Music hall
- View and light
- Balcony extension

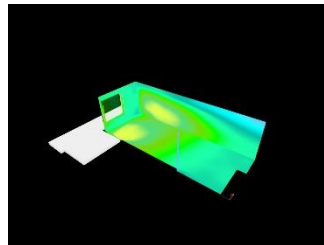


Façade A (Before renovation)

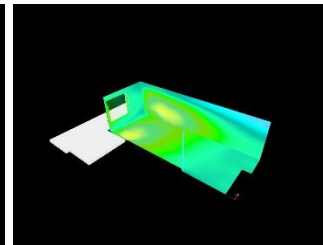
Average summer illuminance per extension\_ Required illumination standard for homes 150lux



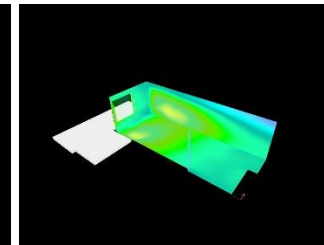
1m extension : 206lx



2m extension : 164lx



2.5m extension : 148lx



3m extension : 135lx



Polycrystalline solar panel



Old brown brick



White painted steel plate



Perforated red bricks



White plaster



Beige brick



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-2 Music hall  
View and light  
-Façade materials

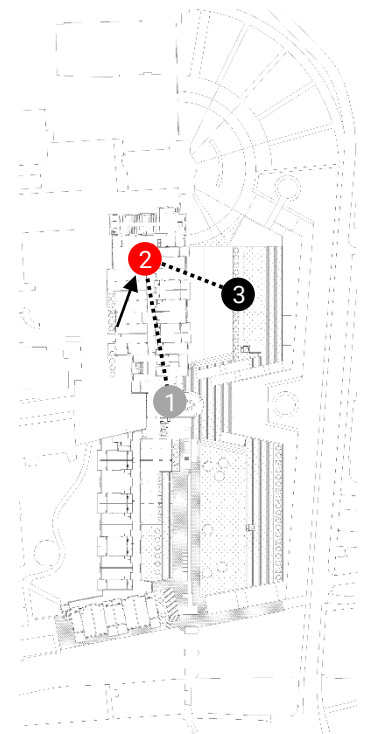


After renovation : Music hall

#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

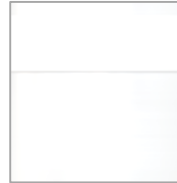
- 4-6. Visitor's route
- 4-7. Resident's route



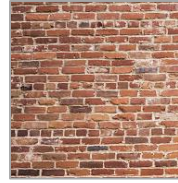




Old brown brick



White painted  
steel beam and column



Column  
Red bricks



Ceiling & Wall  
White plaster



Floor  
White terrazzo tile  
20cm\*20cm

## 4 Design

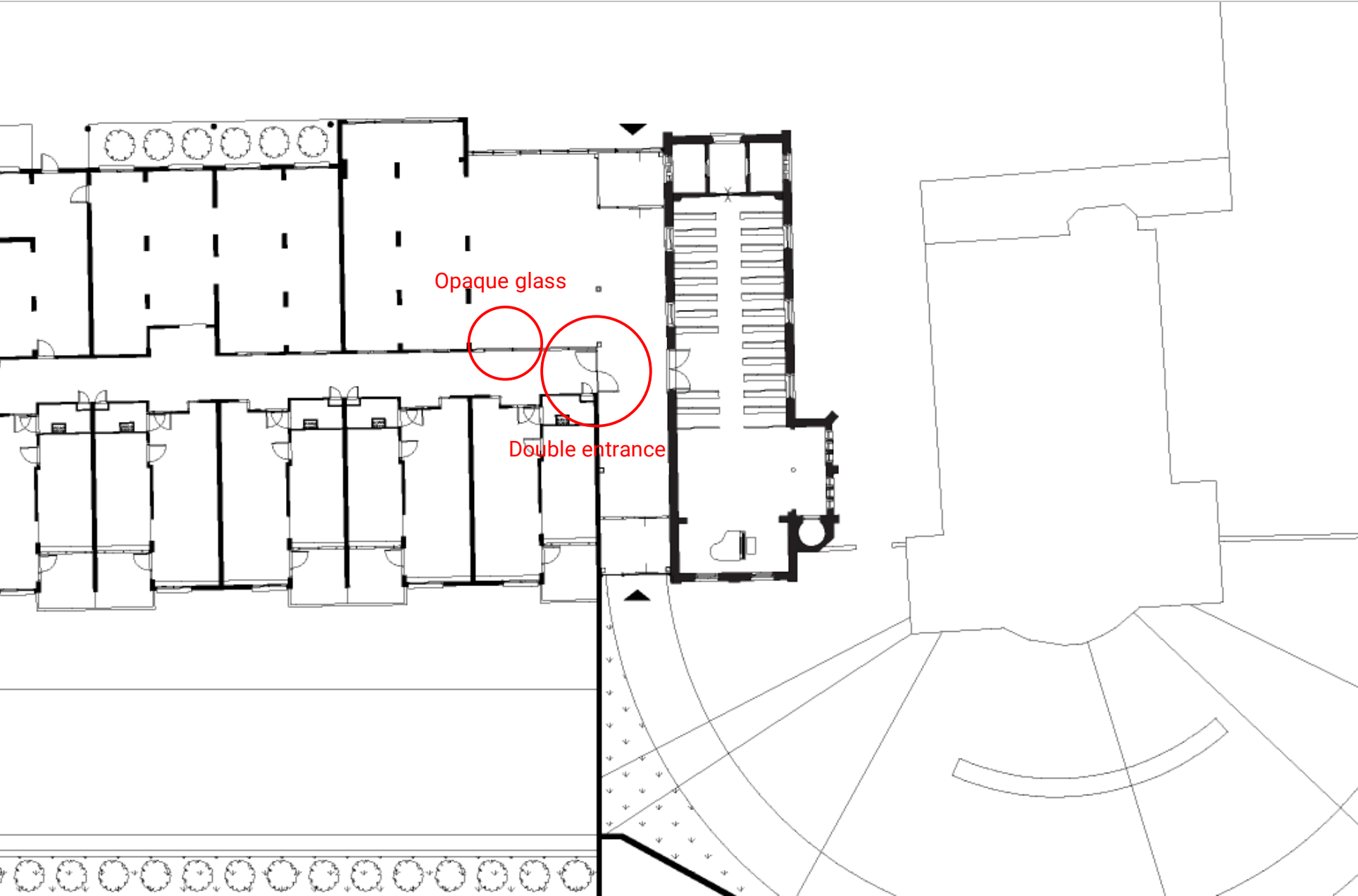
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



2-2 Music hall  
View and light  
-Interior materials





## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-2 Music hall  
**Privacy**  
-Double entrance  
-Opaque glass



Ground floor



Steel frame structure

Perforated brick facade

2.5m balcony extension with  
column support

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

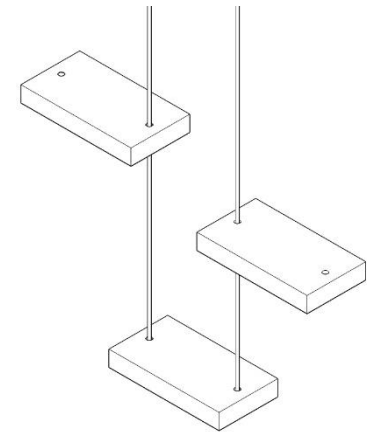
- 4-6. Visitor's route
- 4-7. Resident's route

2-2 Music hall

Structure and detail

-Structure diagram

-Perforated brick combining system





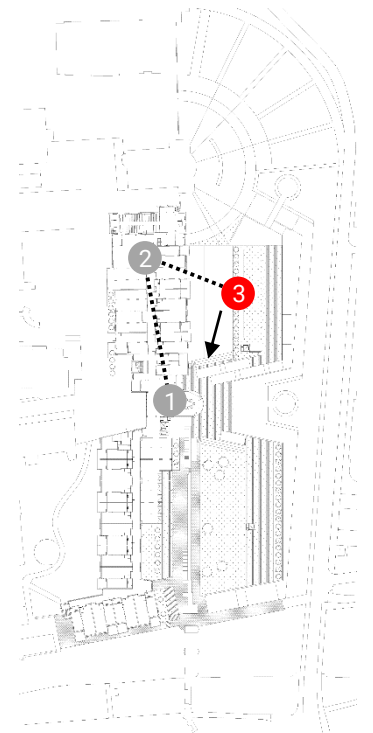
Existing situation : Recreation room



4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



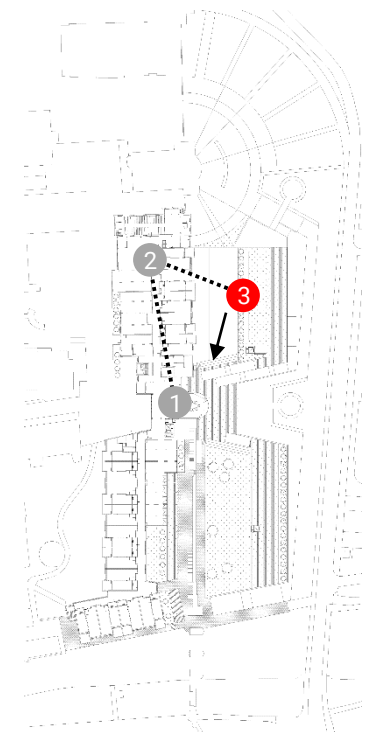


After renovation : Recreation room roof terrace

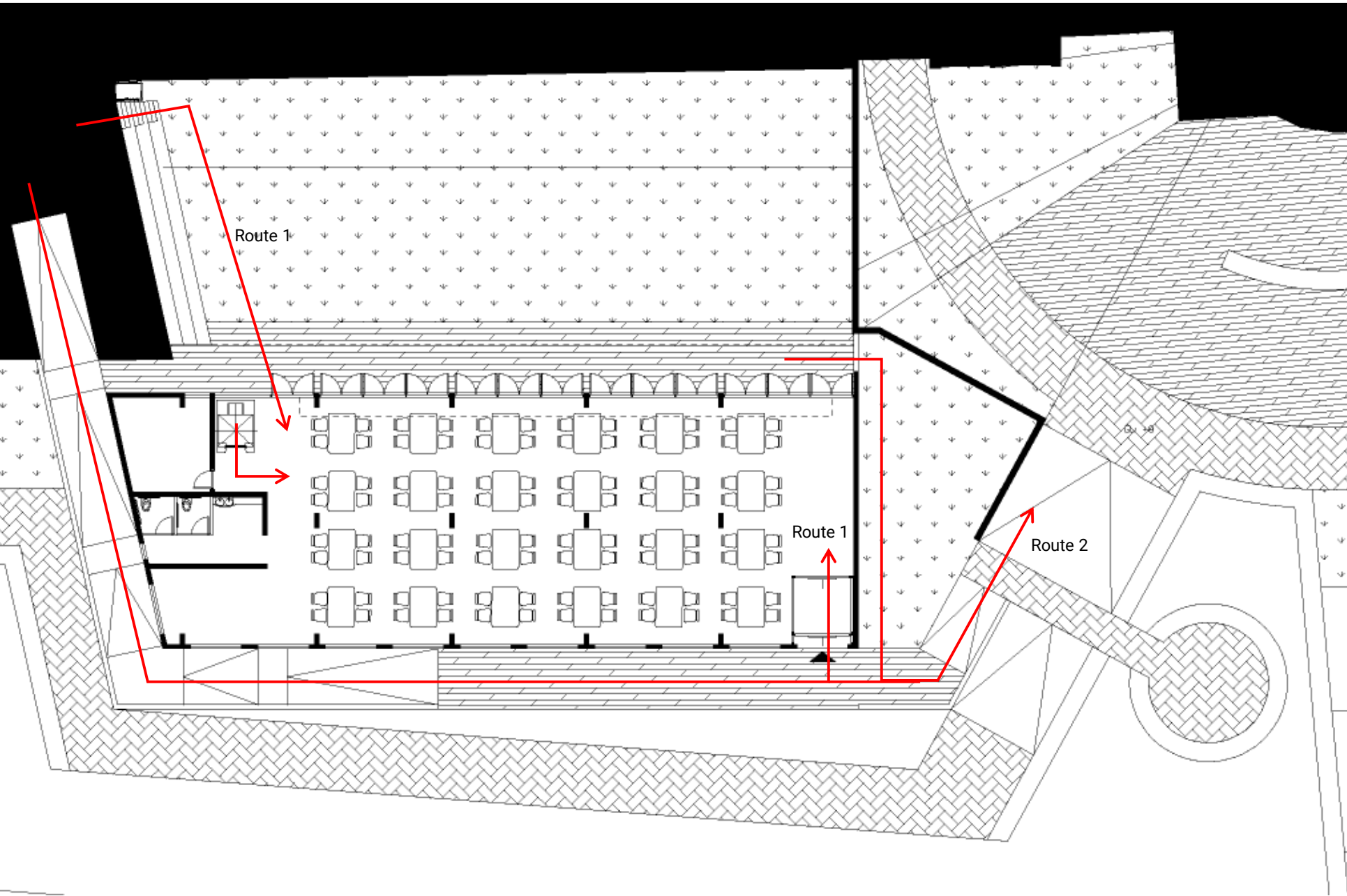
4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route







## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-3 Recreation room

**Accessibility**

- 1. To recreation room
- 2. To music garden



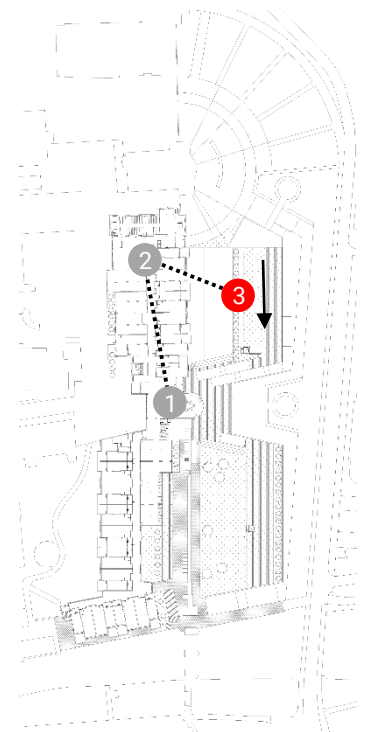
Basement level

## After renovation : Recreation

### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



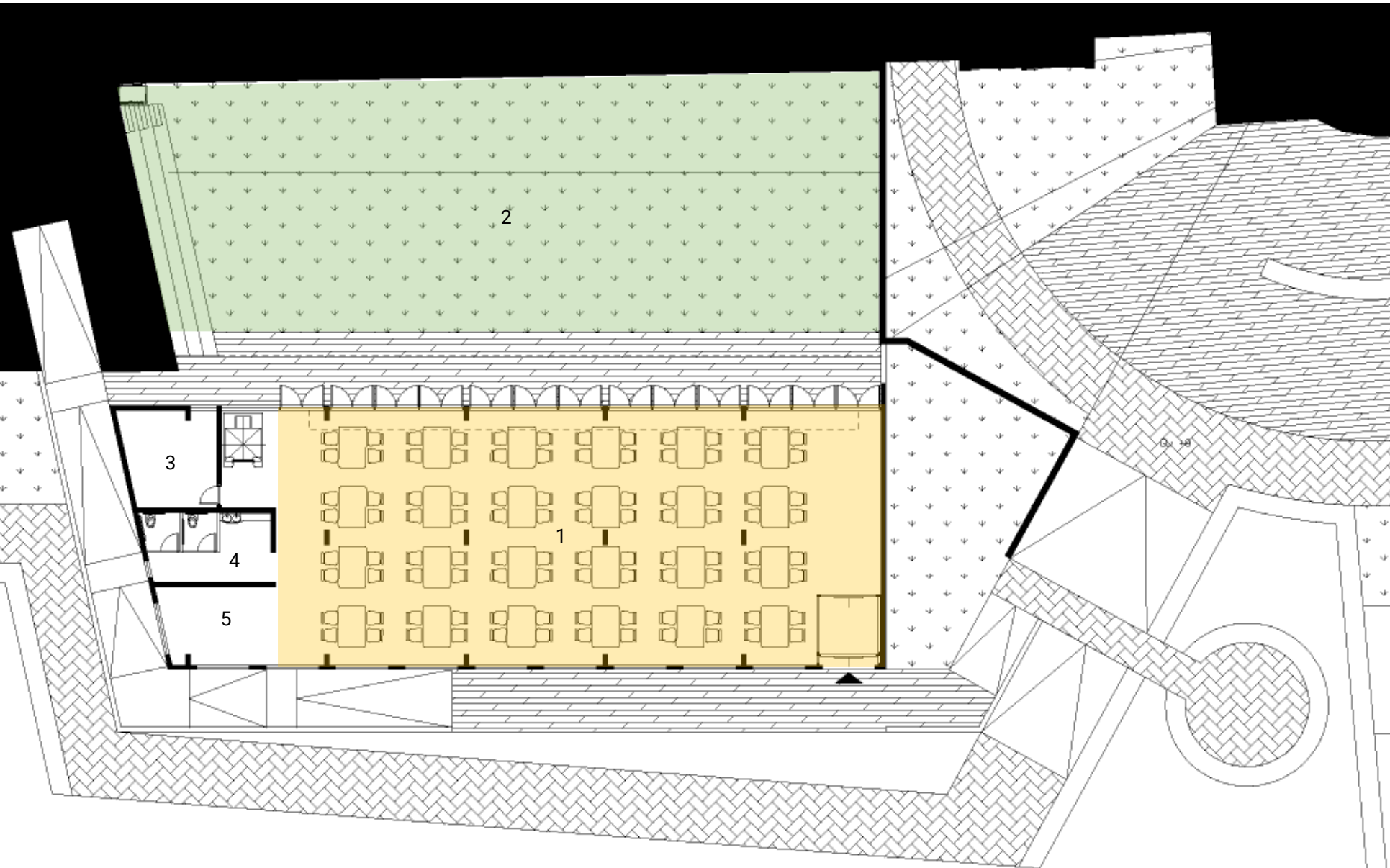




## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route



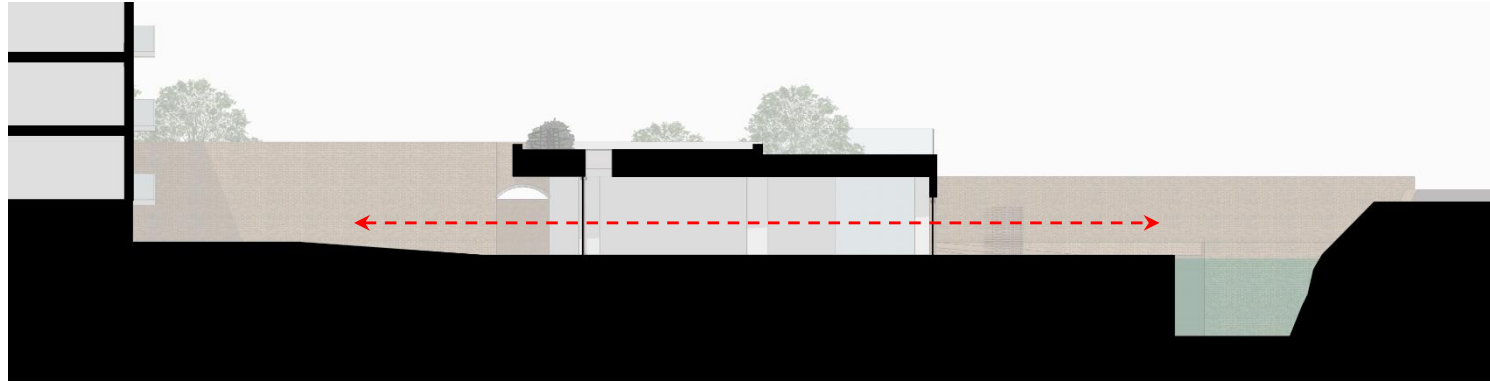
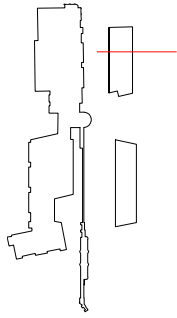
2-3 Recreation room

**Activity**

- 1. Recreation room
- 2. Resident garden
- 3. Machine room
- 4. Restroom
- 5. Mini bar



Basement level



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

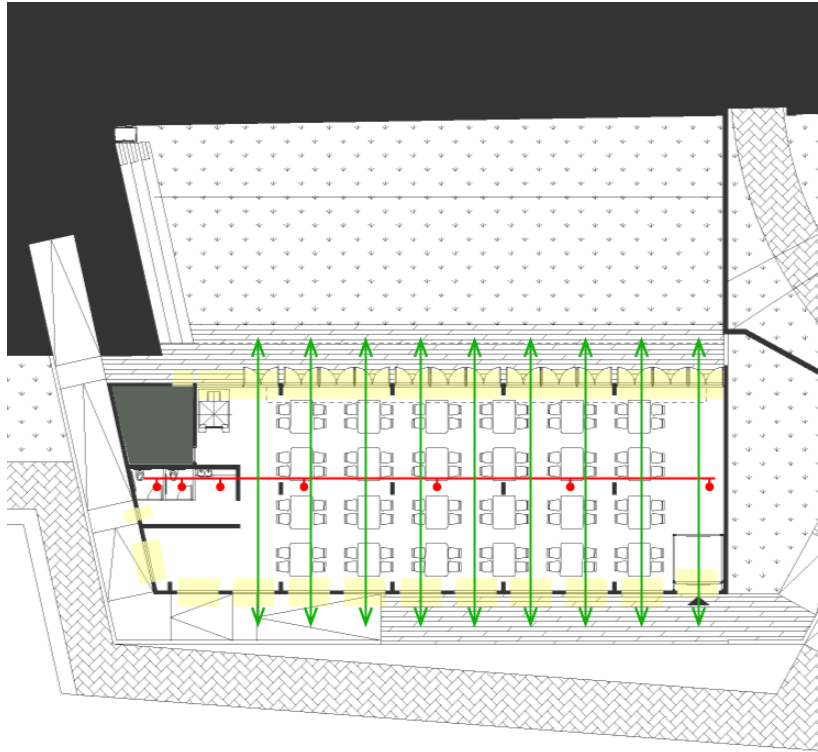


### 2-3 Recreation room

#### View and light

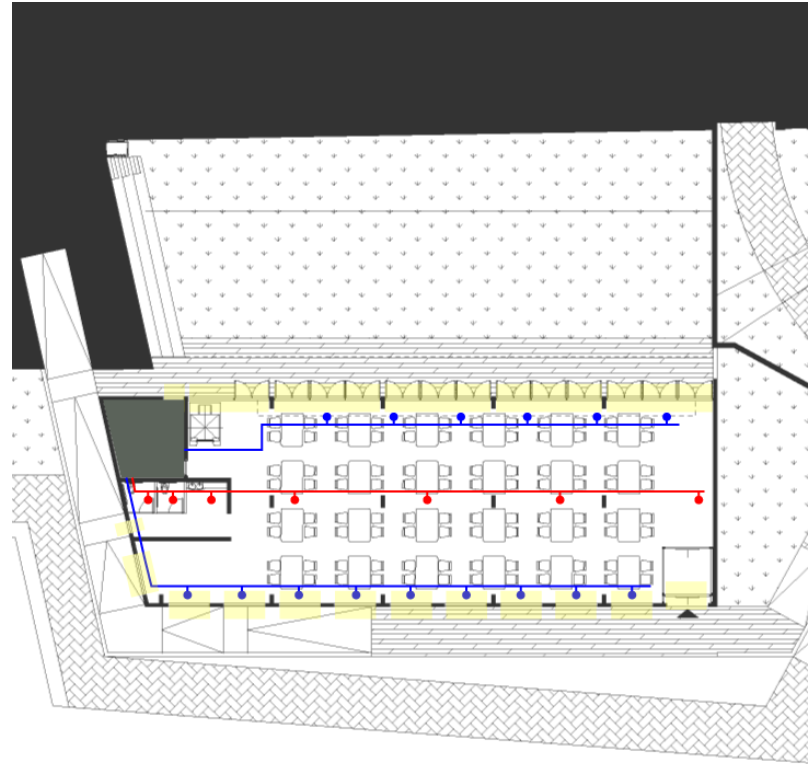
- Relation with river
- Relation with resident garden





#### Summer climate control

- Direct light
- Natural ventilation
- Plant room (Air Handling Unit)
- Air extraction



#### Winter climate control

- Direct light
- Plant room (Air Handling Unit)
- Air extraction
- Air supply

## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

### 2-3 Recreation room

#### View and light

- Summer climate control
- Winter climate control
- Summer door open





Recreation room west facade



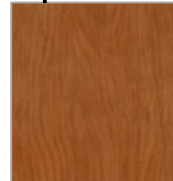
Perforated red bricks



Red bricks



Stone



Window frame



Recreation room east facade

## 4 Design

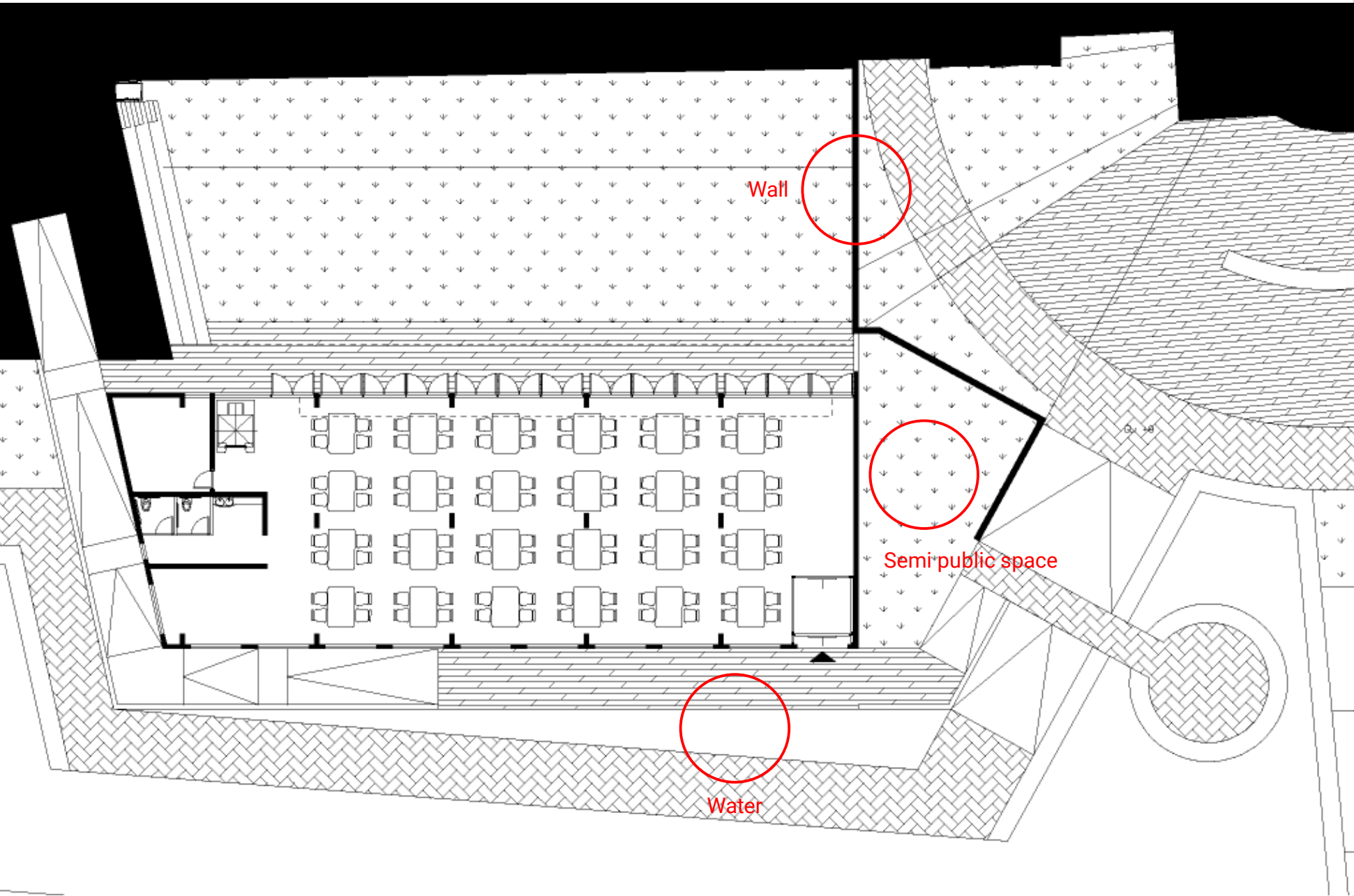
- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

### 2-3 Recreation room

- View and light
- Continuous landscape
- Façade materials
- East and West





#### 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

2-3 Recreation room

Privacy

-Water

-Semi public space

-Wall



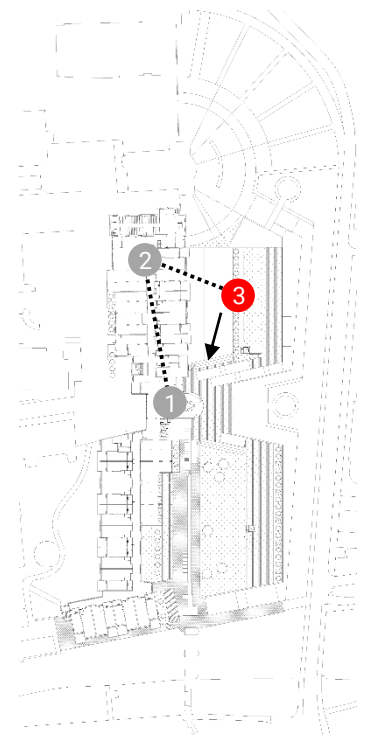
Basement level



## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route





## 4 Design

- 4-1. Concept
- 4-2. Design ambition
- 4-3. Design process
- 4-4. Design strategy
- 4-5. Master plan

- 4-6. Visitor's route
- 4-7. Resident's route

