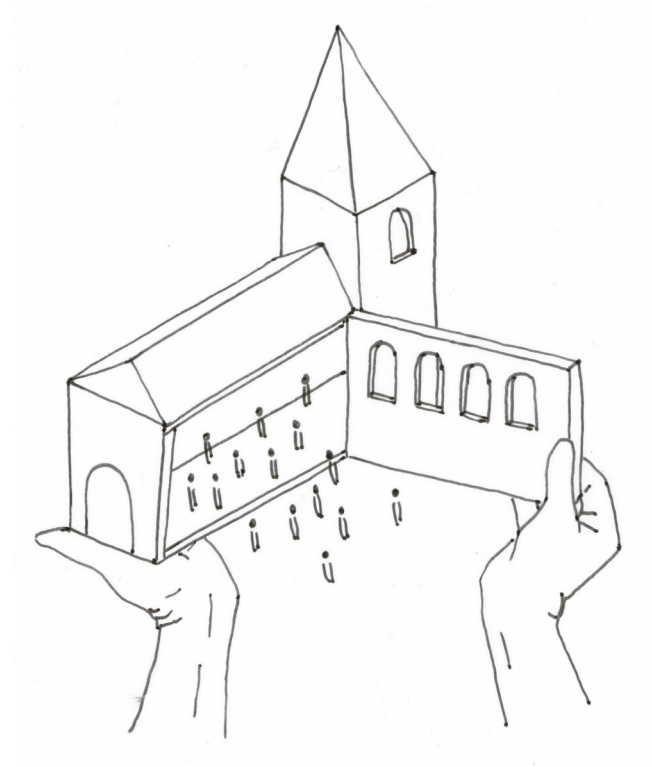


Turning the church inside out
Jacobuskerk Winterswijk

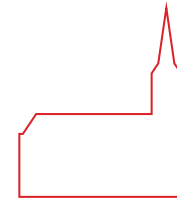


introduction

research

position

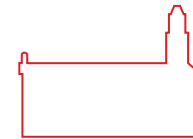
design



JACOBUSKERK



INDUSTRIAL AREA

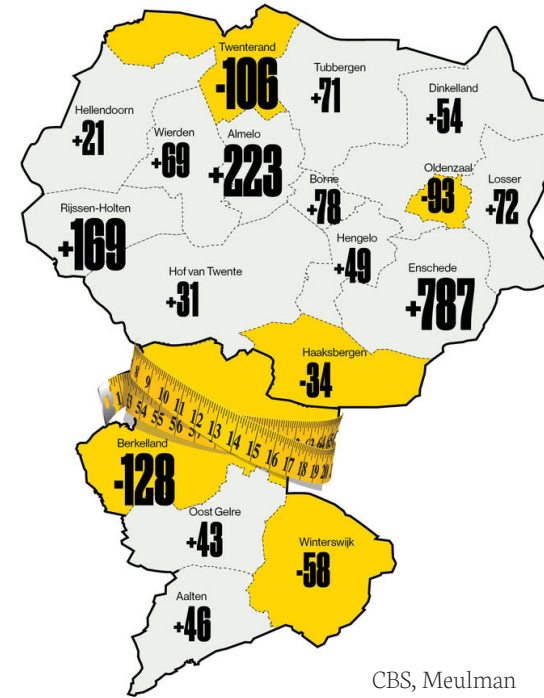


RAADHUIS



BOOGIE WOOGIE





Winterswijk deals with decreasing population numbers and change in composition of residents.



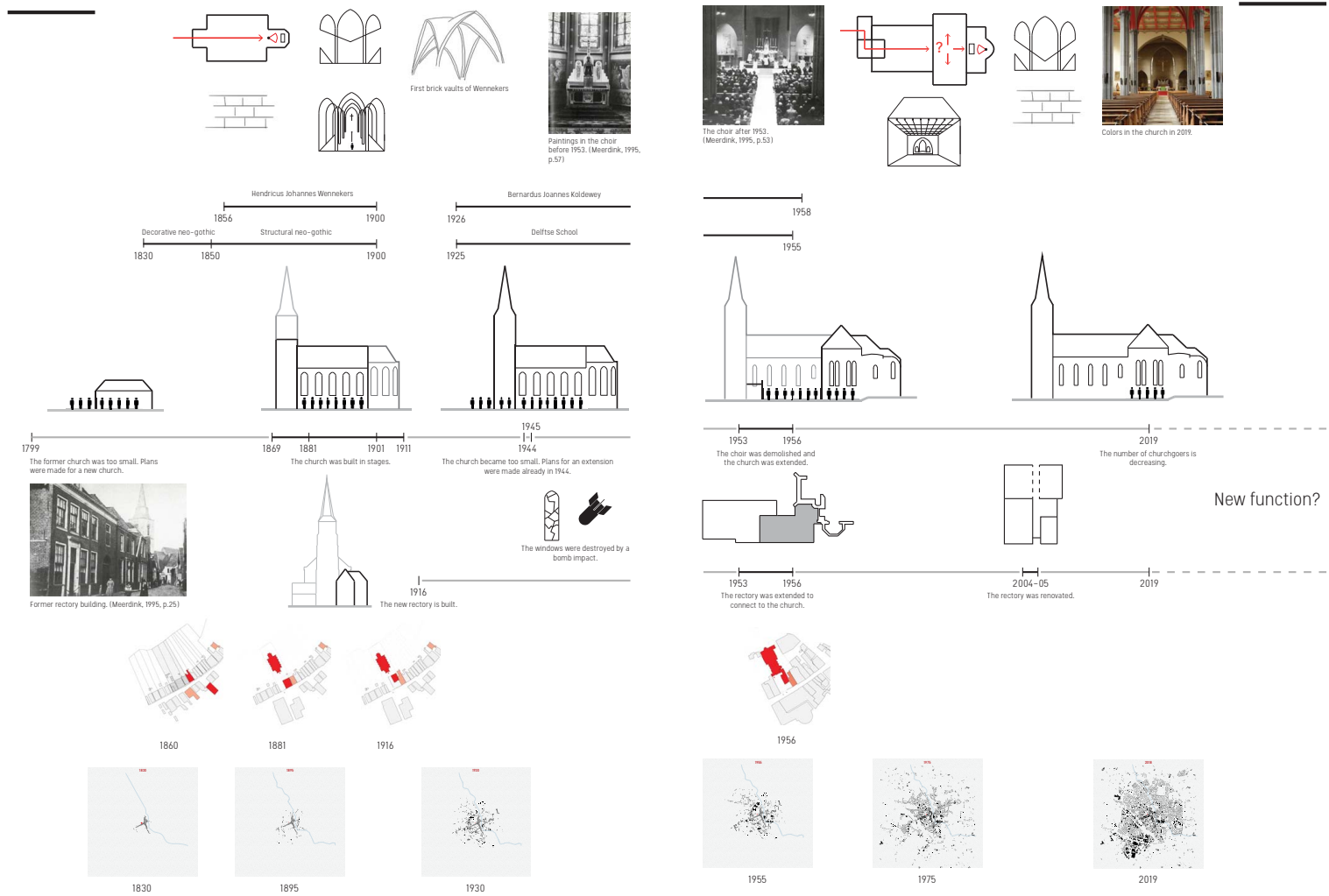
Since 2008, on average one church has to close its doors every week (van der Breggen, 2018).

introduction

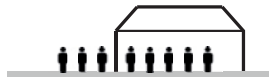
research

position

design

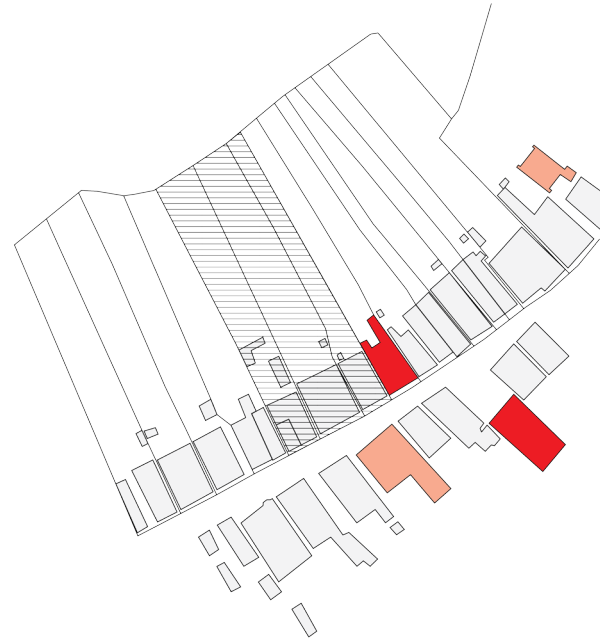


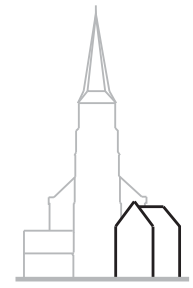
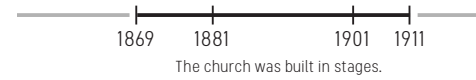
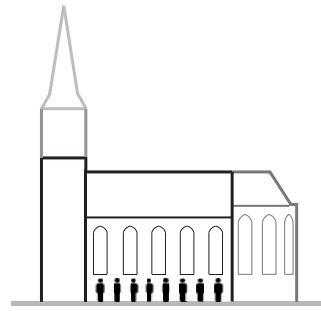
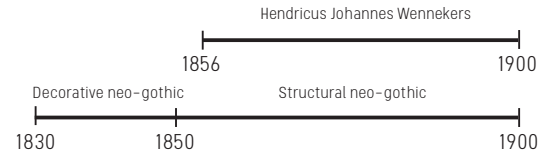
Timeline



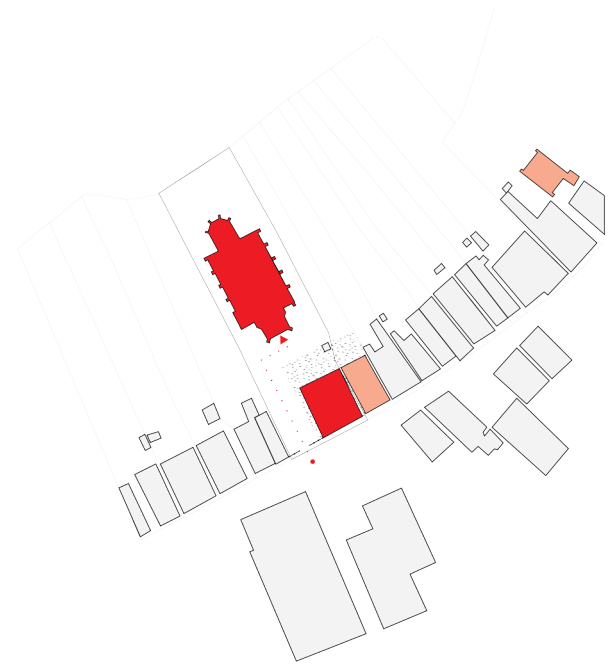
1799

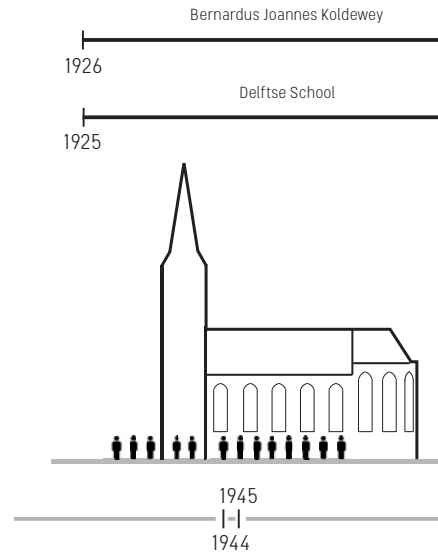
The former church was too small. Plans were made for a new church.





1916
The new rectory is built.

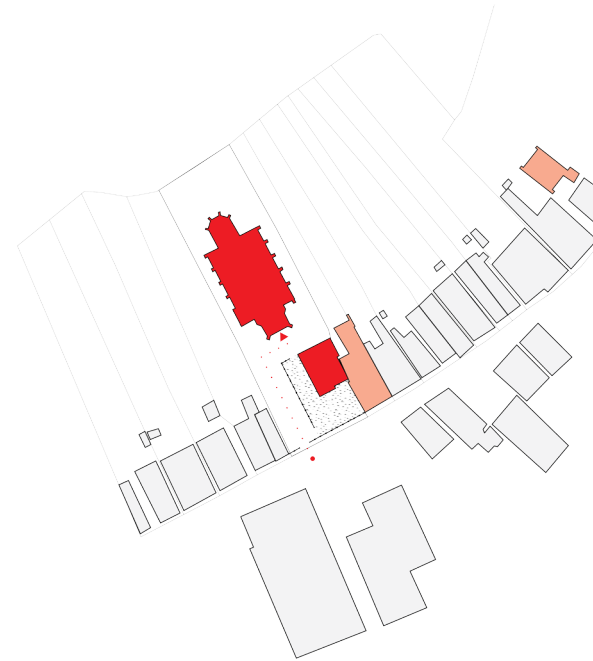




The church became too small. Plans for an extension were made already in 1944.



The windows were destroyed by a bomb impact.



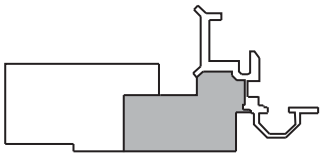
1958

1955



1953 1956

The choir was demolished and the church was extended.



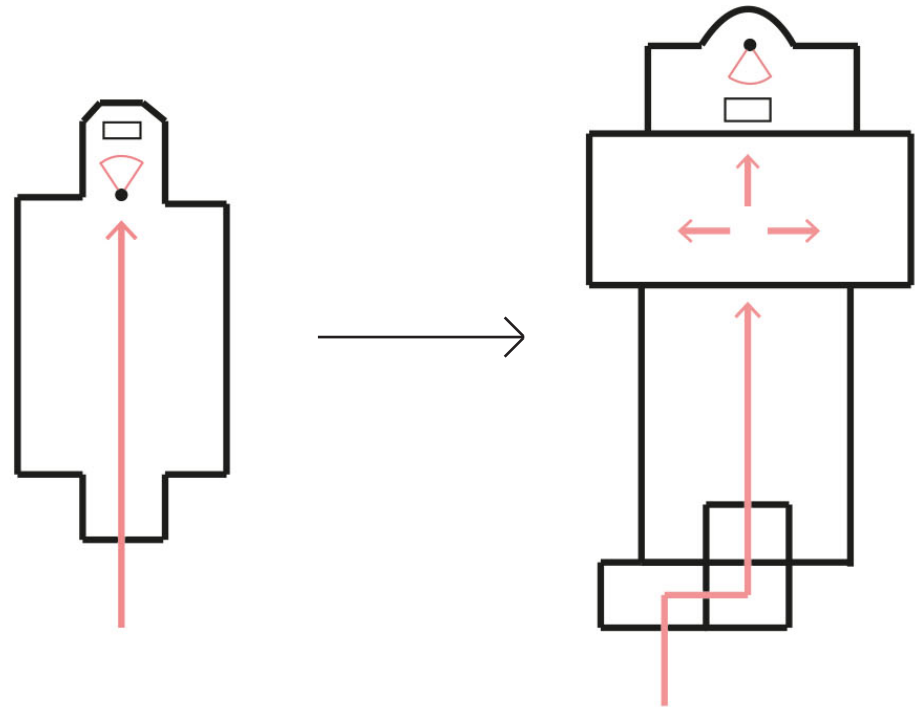
1953 1956

The rectory was extended to connect to the church.

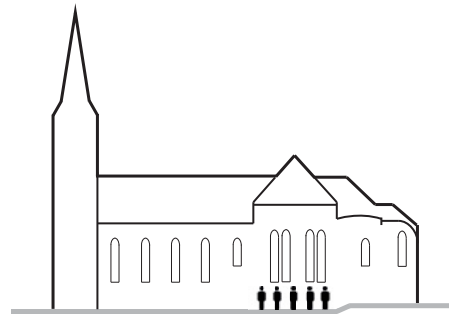




Combination of building styles



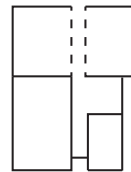
Change in spatial sequence



2019

The number of churchgoers is decreasing.



New function?









2004-05

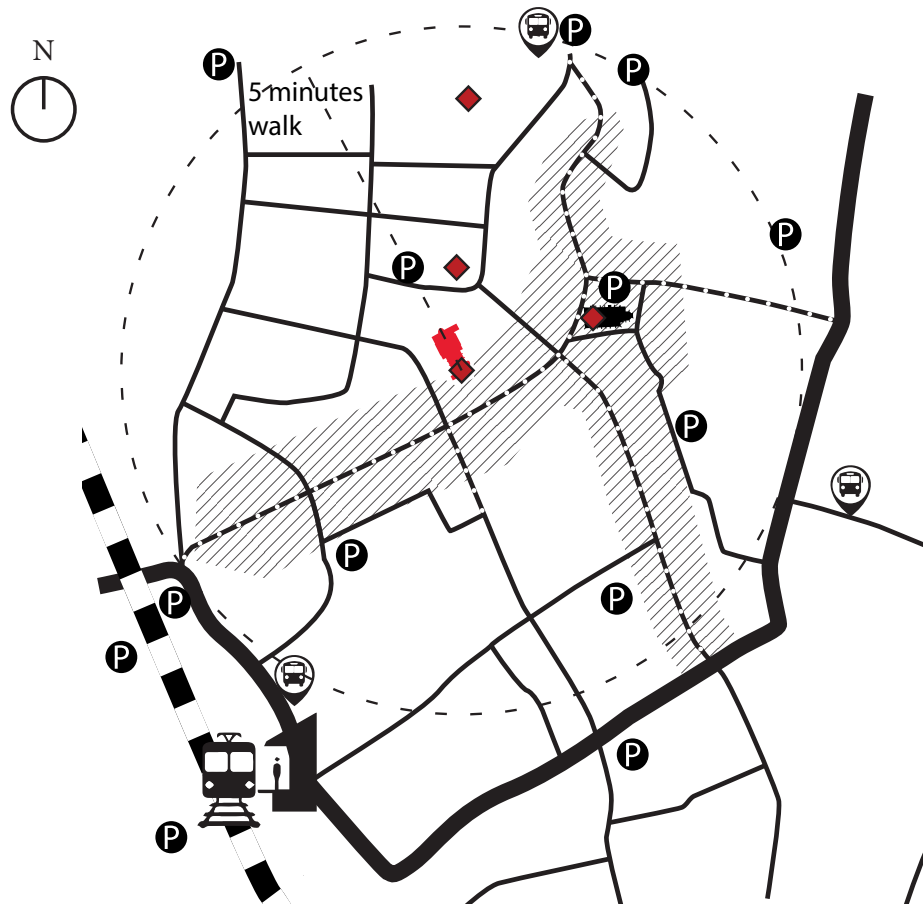
The rectory was renovated.

2019

-  Prominent building
-  Jacobuskerk

-  Radius from church
-  Pedestrian area
-  Province road

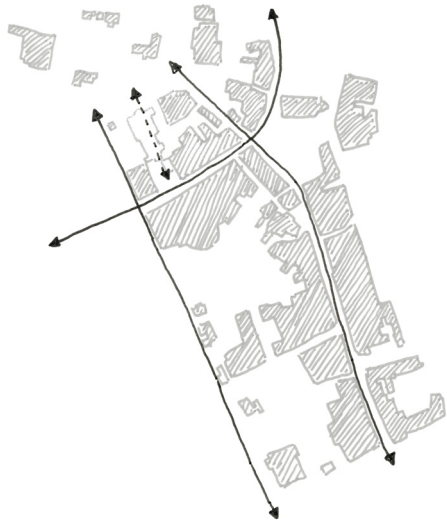
-  Train track
-  Roads
-  Centre



Surroundings

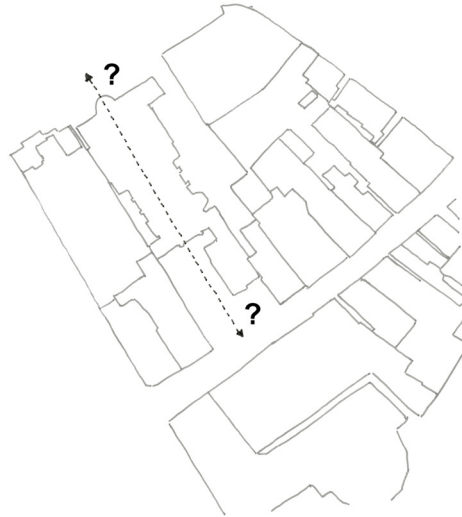


Surroundings



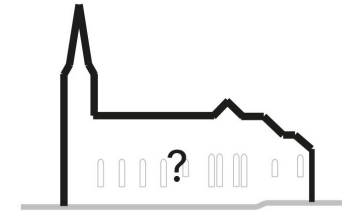
connection

The church is located between the shopping street and the park. It can be an opportunity to use the church as a connecting element.



public space

The space around the church feels like an undefined space. By making this public space more defined, the church becomes more anchored in its surroundings.



closed

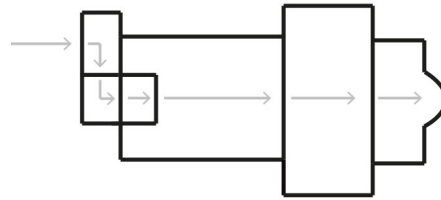
Because of its introvert character the church is very closed. There is no connection with the surroundings.

Conclusions urban context



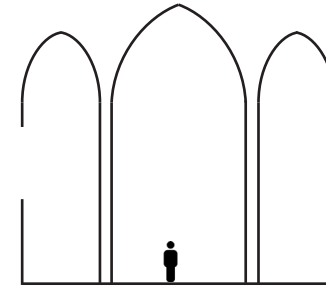
layers of time

The different layers of time are an characteristic aspect of this church.



spatial sequence

There is an interesting spatial sequence from outside to the choir through spaces with different scale and atmosphere.



closed

Due to its high plinth the church is very closed on human scale.

Conclusions church



Cathedral of Antwerp. Hendrik I Van Steenwijck & Jan I Brueghel (1593, 1609).

Inspiration: church paintings

Research question

What is the relation between public
space and church buildings?

Design question

How can the Jacobus church be transformed into
a public space connected to its surroundings?

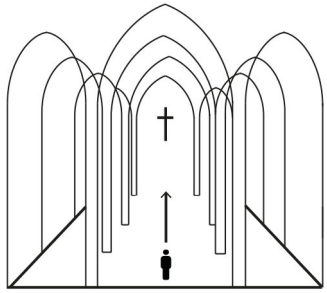
introduction

research

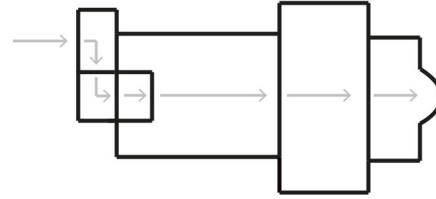
position

design

What to keep and what to change?
How to preserve the essence of the church?



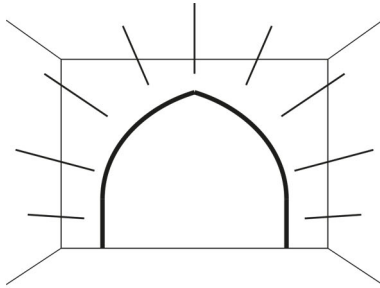
neo gothic architecture elements



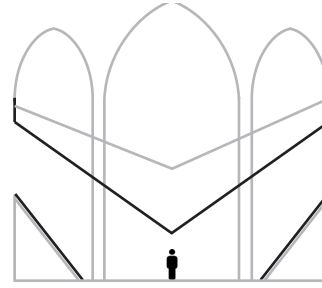
spatial sequence



layers of time



1950s intervention: open up



atmosphere



memories

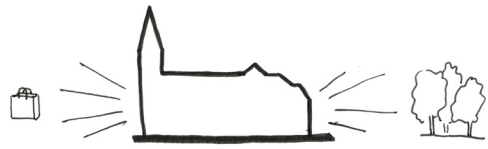
Values

introduction

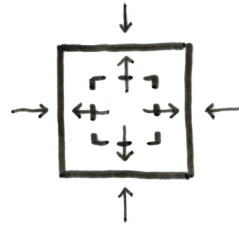
research

position

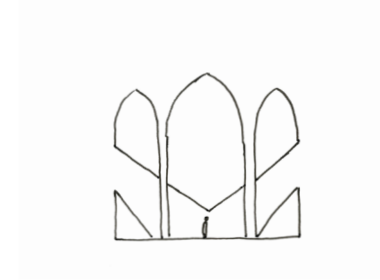
design



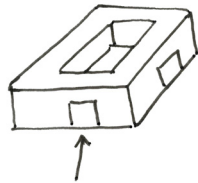
connection with the surroundings
Become the connecting element between the shopping street and the park.



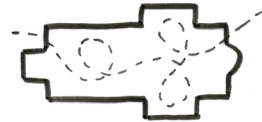
define public space
By making the space around the church more defined, the church becomes more anchored in its environment.



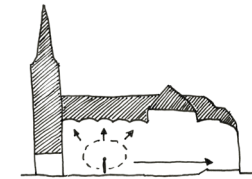
atmosphere
Preserve the church atmosphere and use it in the design.



the church as public square
The church becomes a public square, the meeting place for the whole community.



wander
From a linear routing to strolling through the church.



sightlines
Preserve the sightlines in the church.

Starting points for the design

aging population,
individualization resulting in isolation,
disappearance of communities such as churches.



public space accessible for everyone,
where people can meet and connect,
contribute to the community



COMMUNITY CENTER + LIBRARY

Program



Urban context



Current situation



Situation after interventions



Connection between Misterstraat and Vrijheidspark



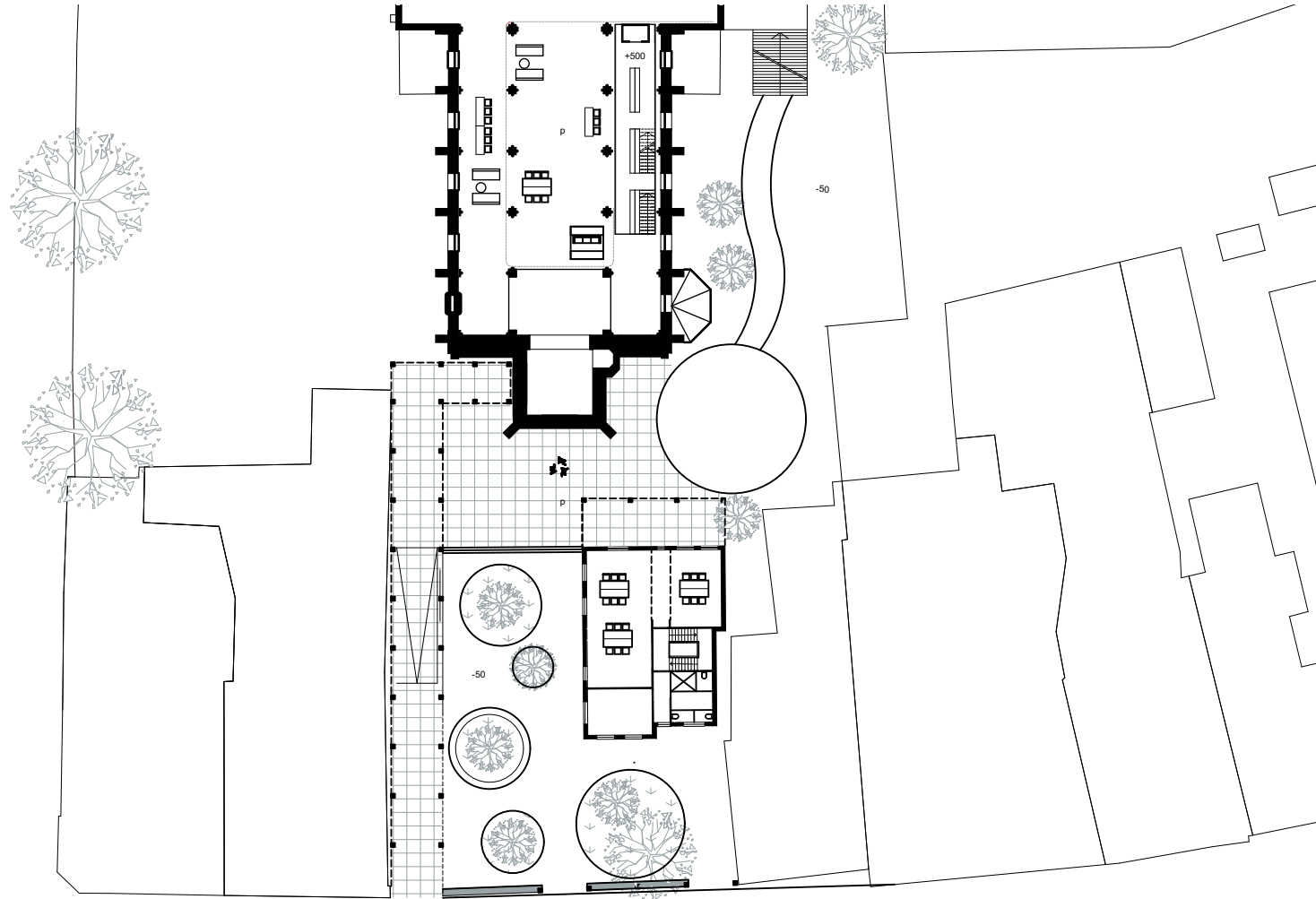
Misterstraat current situation



Addition of colonnade



New view from the Misterstraat



Floorplan



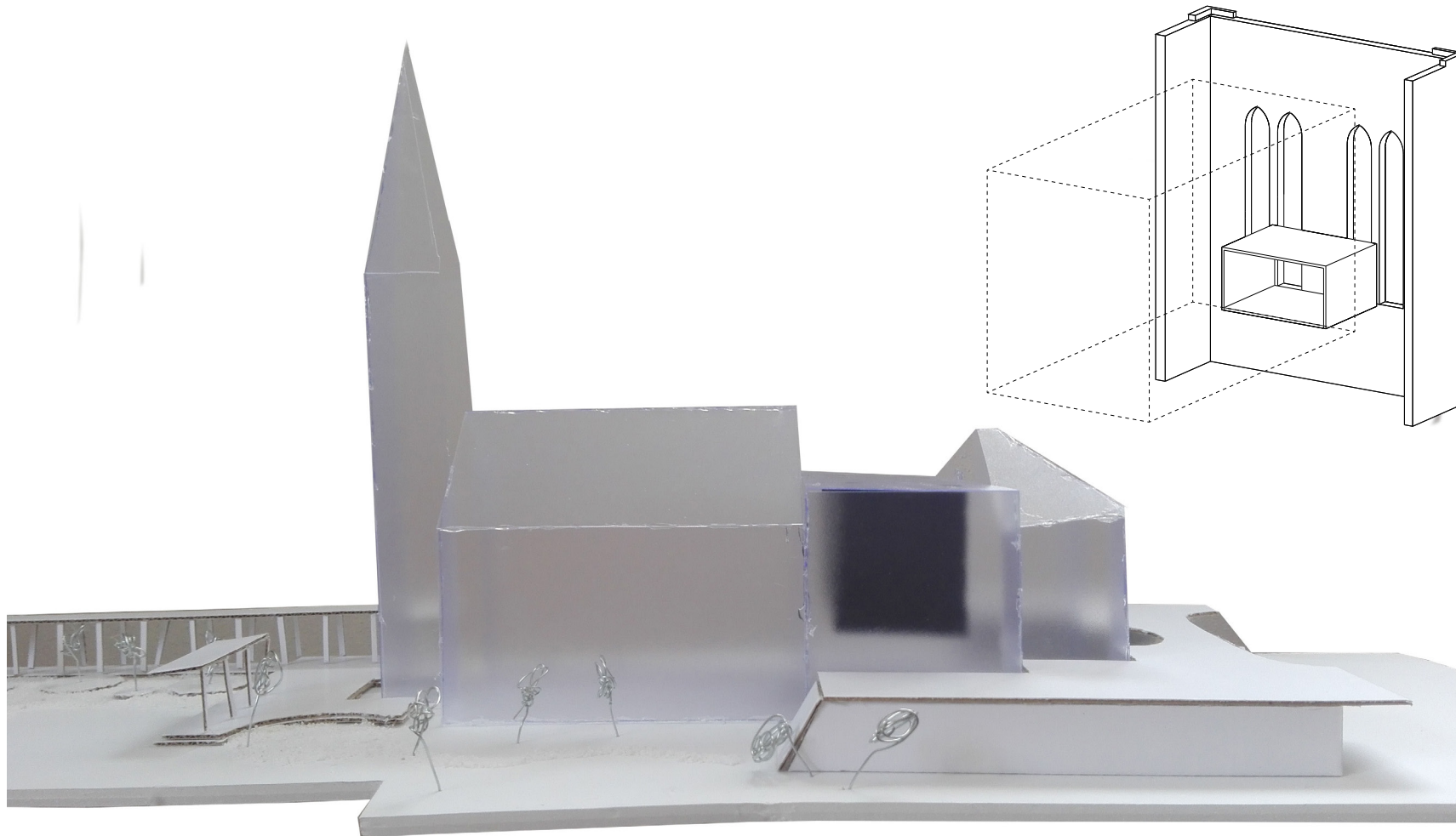
Inside the garden



Behind the rectory



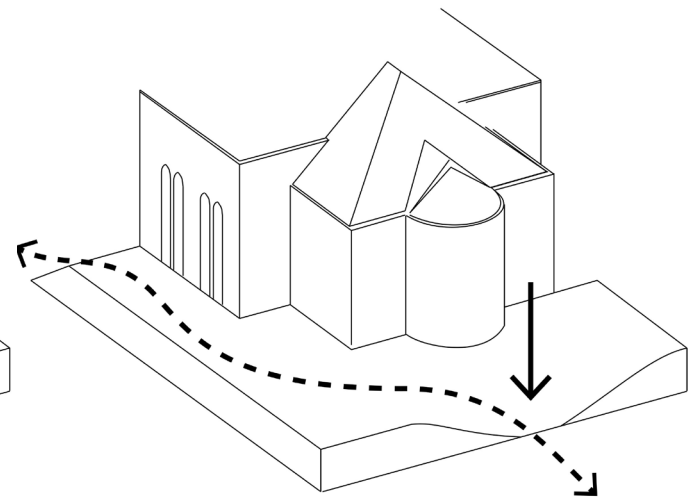
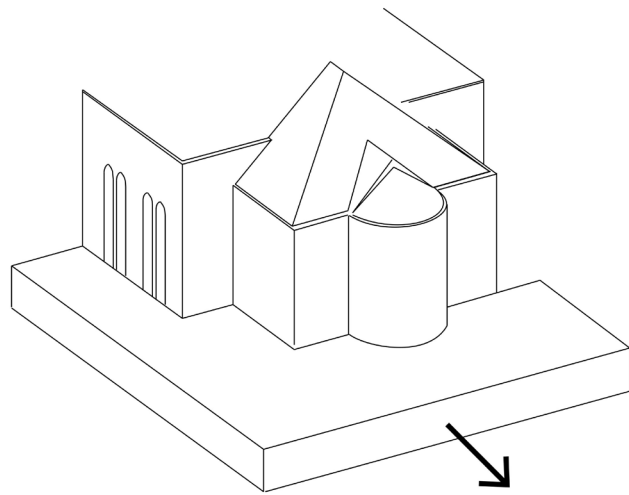
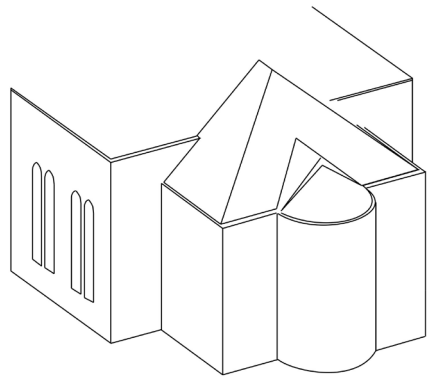
Side of the plot



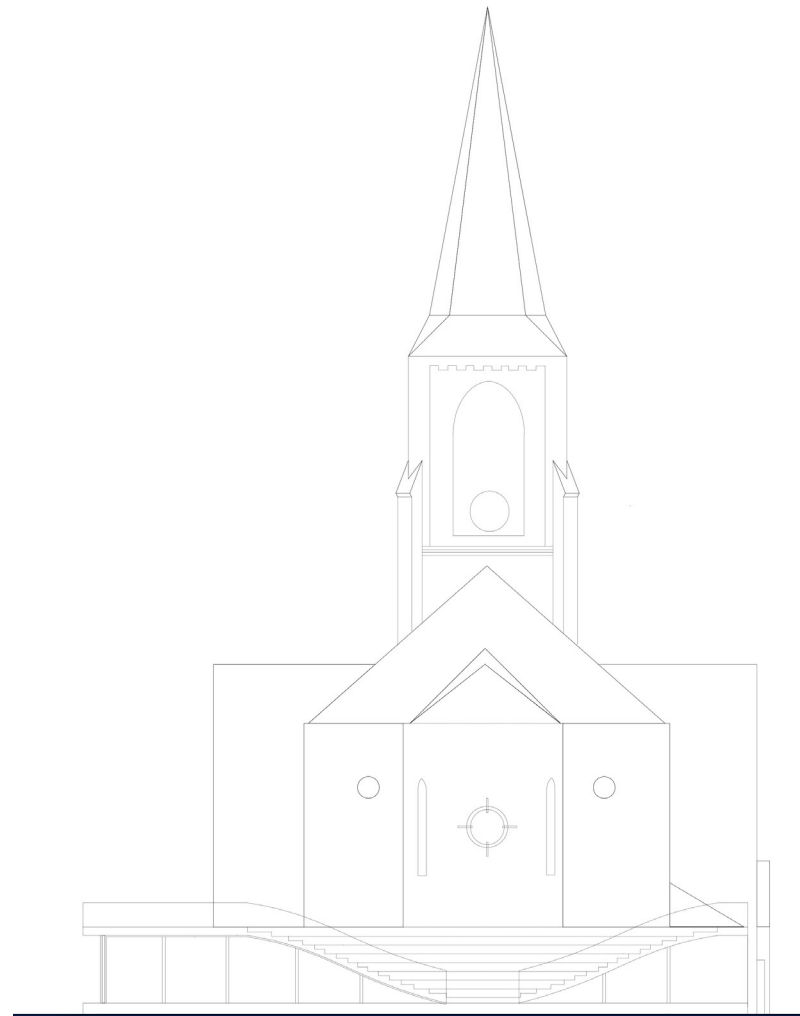
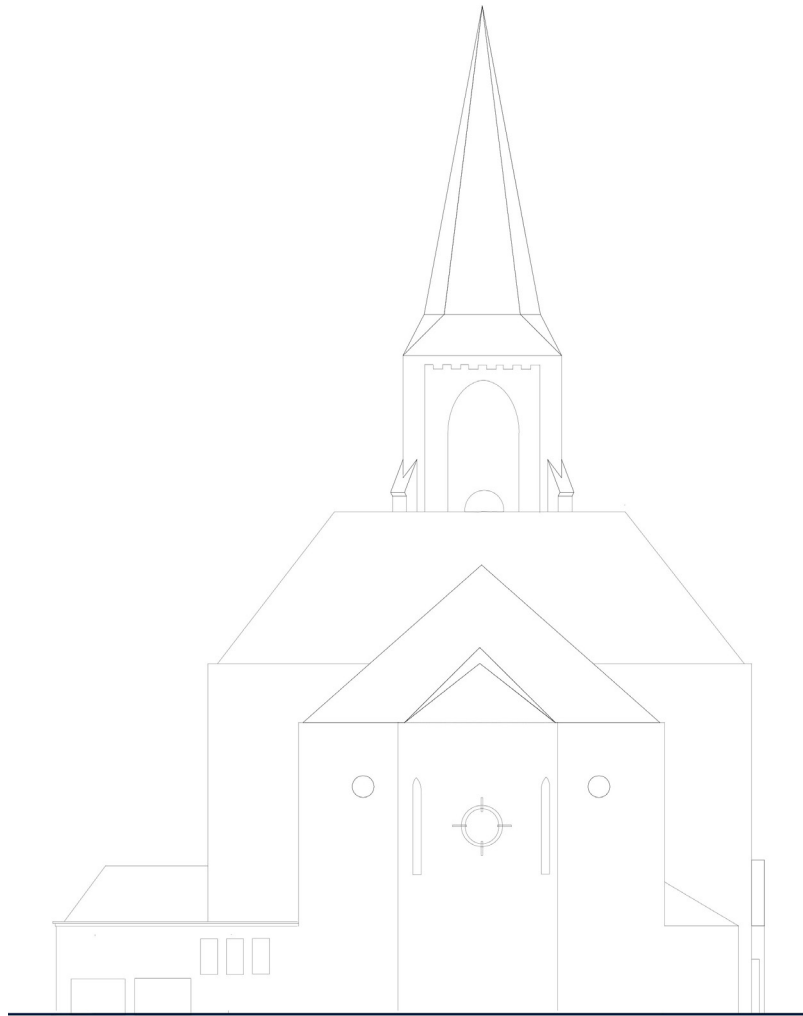
Connection with interior garden



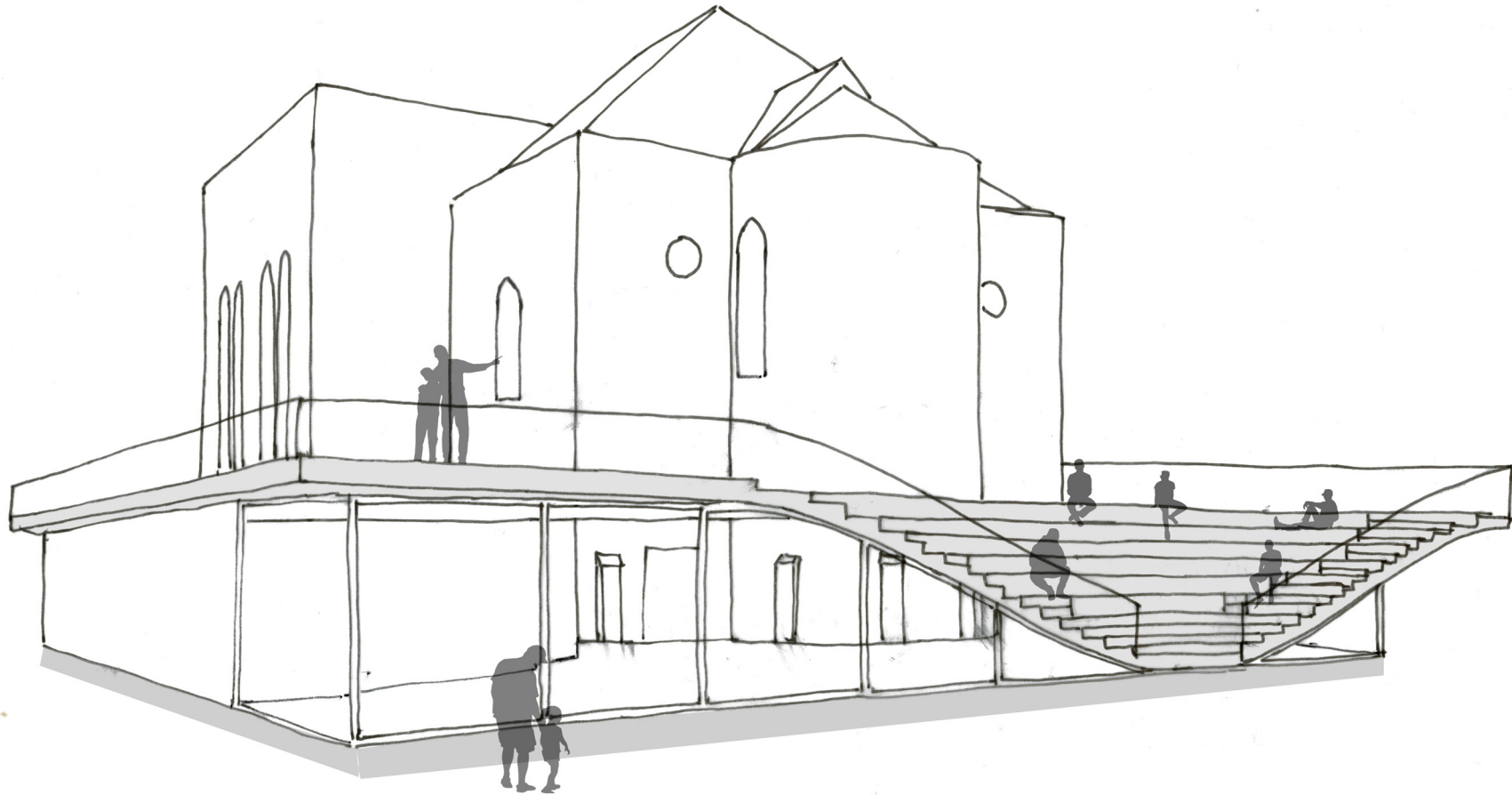
Interior garden



Public connection



Back facade



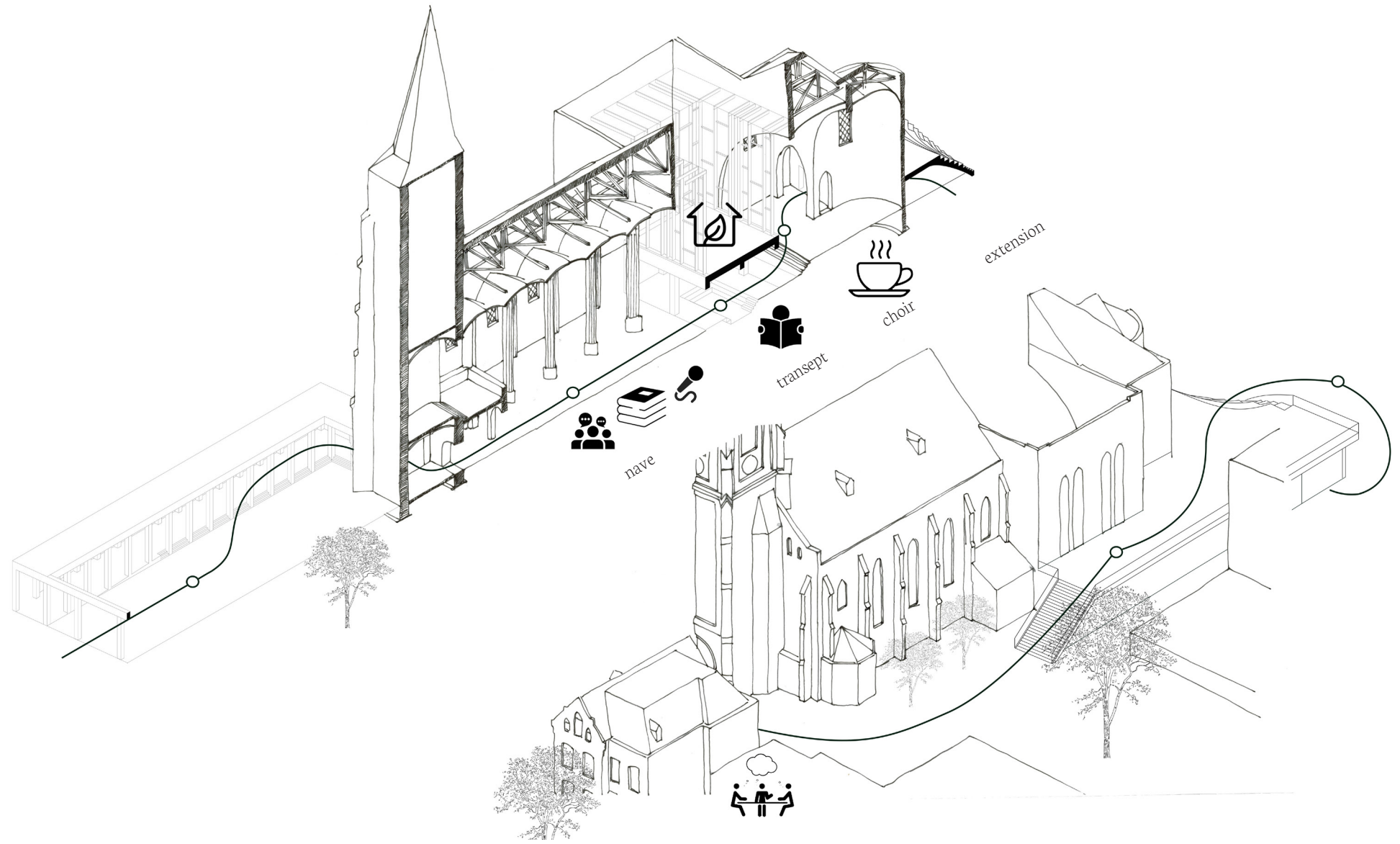
Extension public stairs



Outdoor cinema

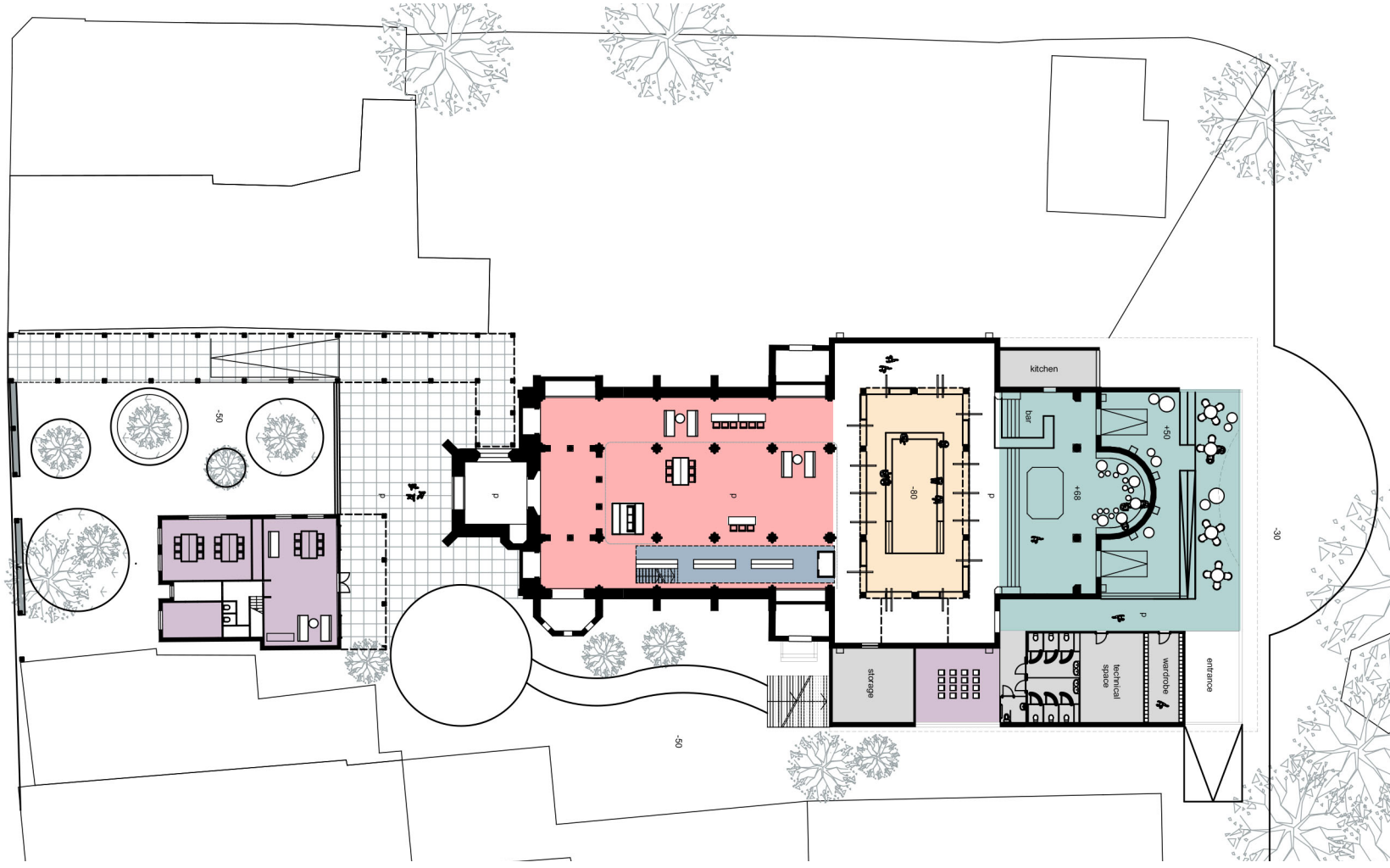


Activities in the church



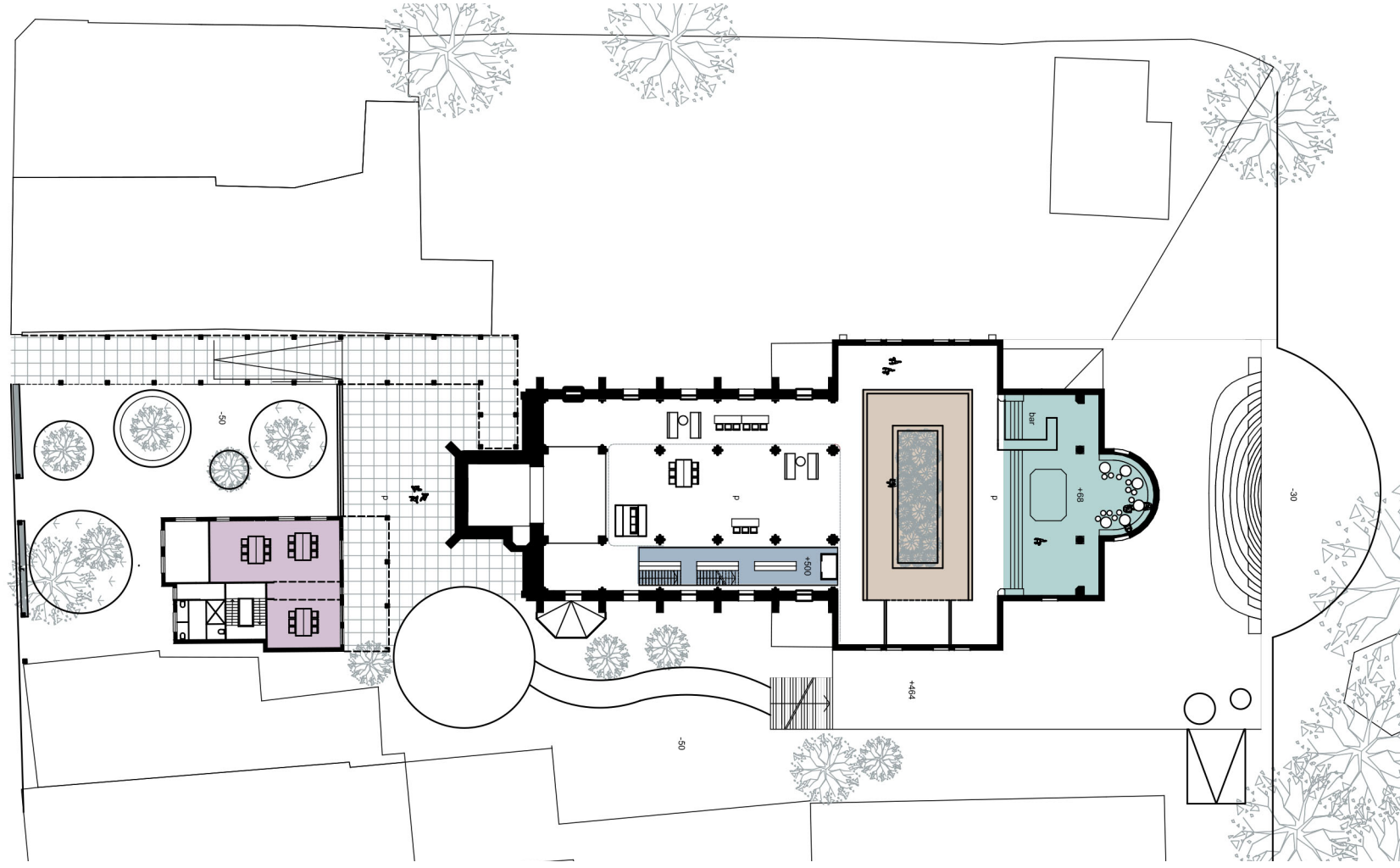
Interventions

- Communal space
- Workshop spaces/
Lecture rooms
- Café
- Library
- Reading room
- Storage, toilets,
kitchen



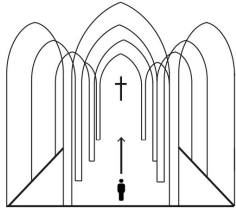
Function map ground floor

- Communal space
- Workshop spaces/
Lecture rooms
- Café
- Library
- Reading room
- Storage, toilets,
kitchen



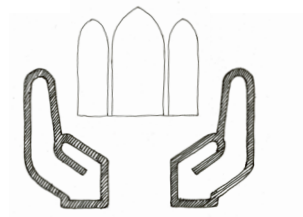
Function map first floor

Values



neogothic architecture elements

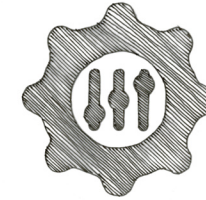
Principles



preserve neogothic elements

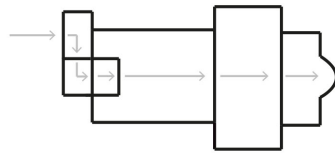
The valuable neogothic elements such as the columns and vaults.

Interventions

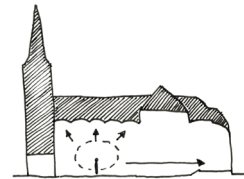


adapting the current church

To make the church suitable for the public function it must be adapted to the new requirements.

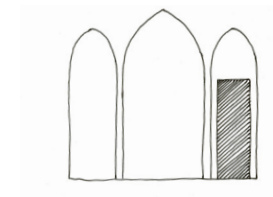


spatial sequence



preserve sightlines

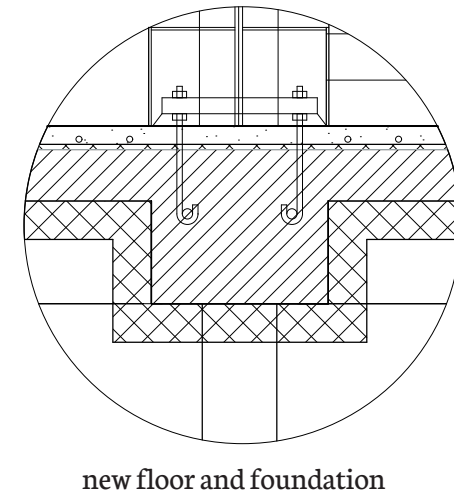
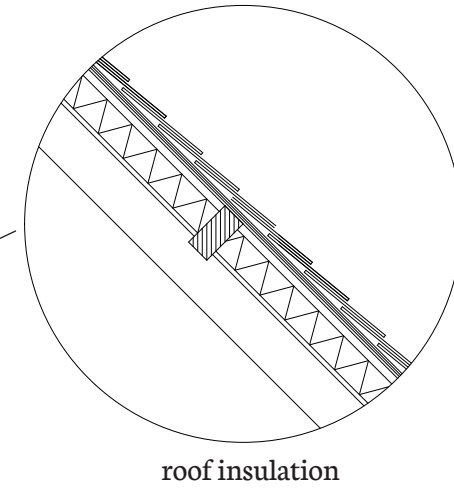
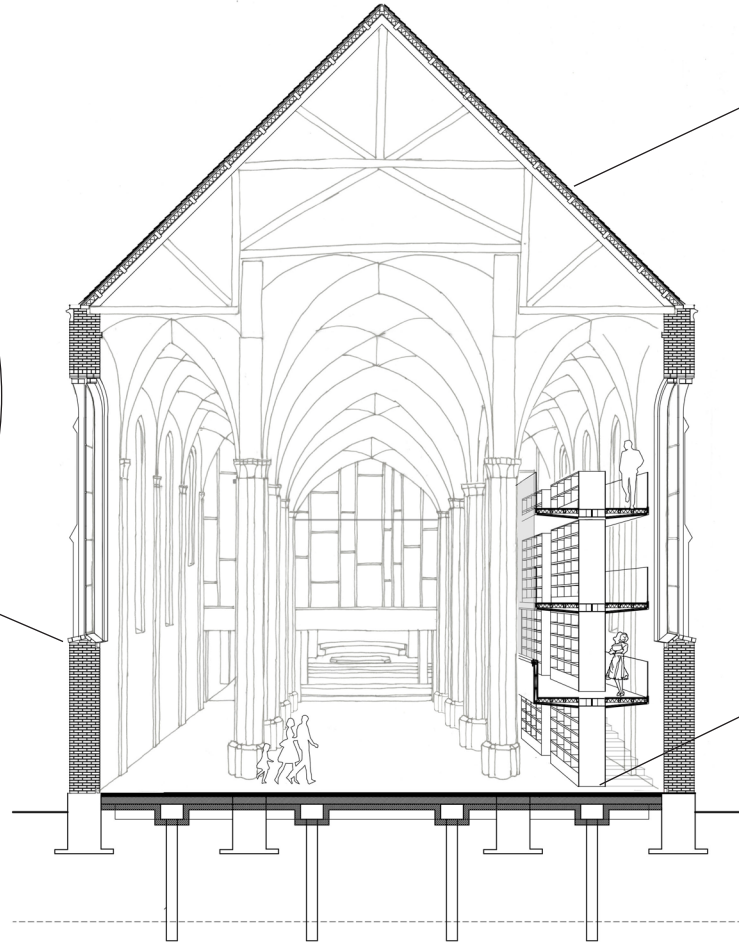
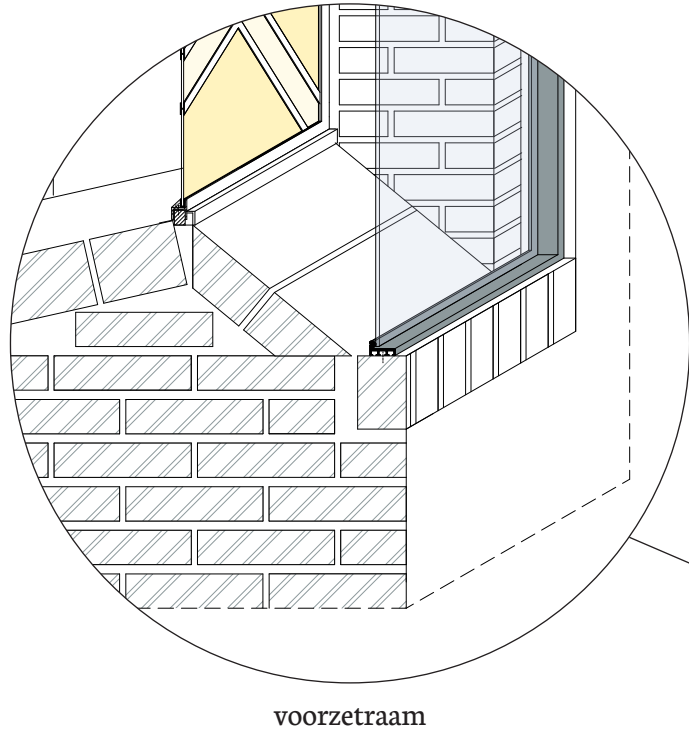
Keep the construction of natural stone columns and brick vaults in sight. Preserve the sightline towards the choir.



addition of new elements

Adding new elements that support the new function.

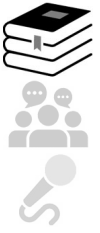
Nave



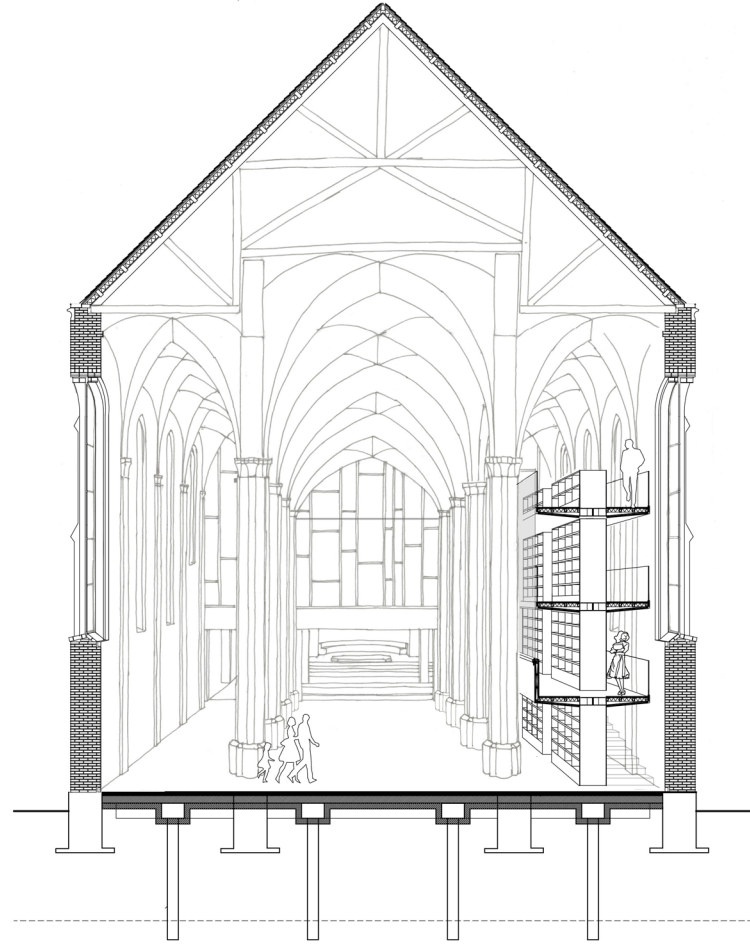
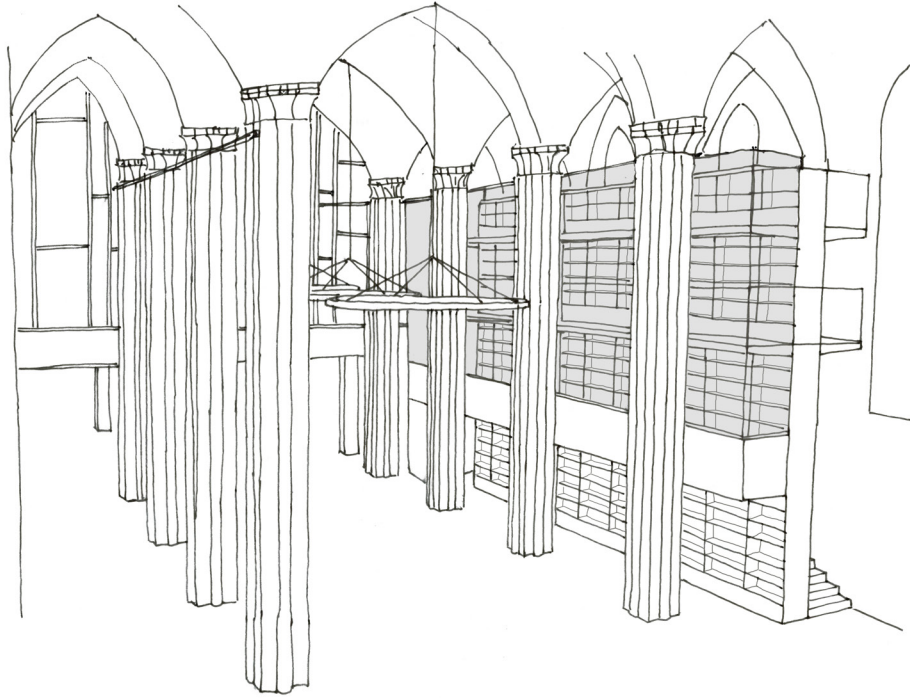
Adapting the current church



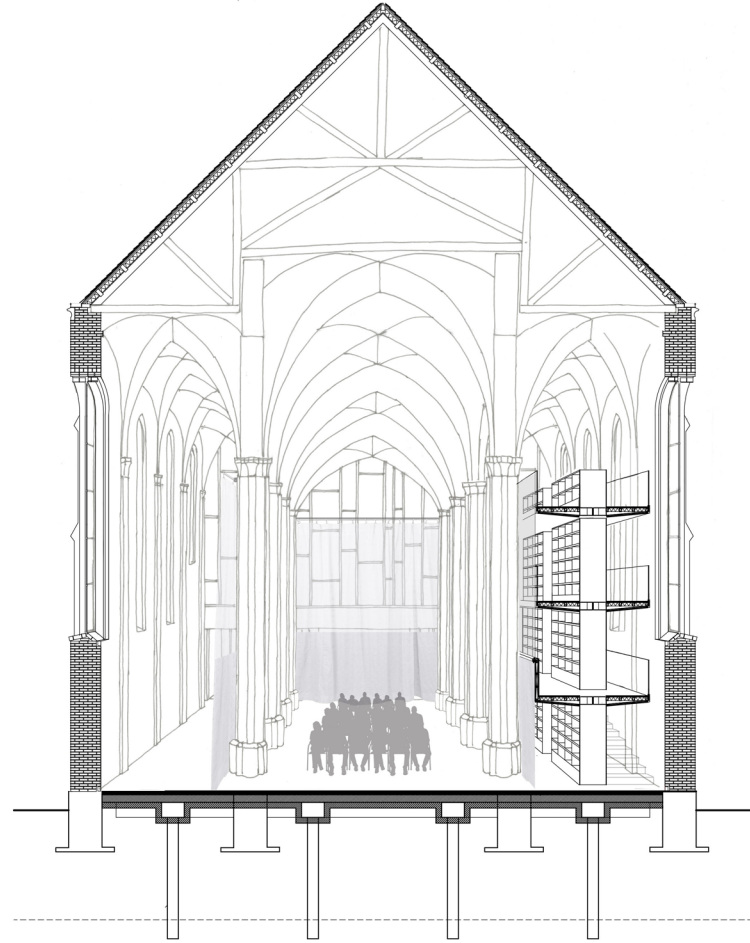
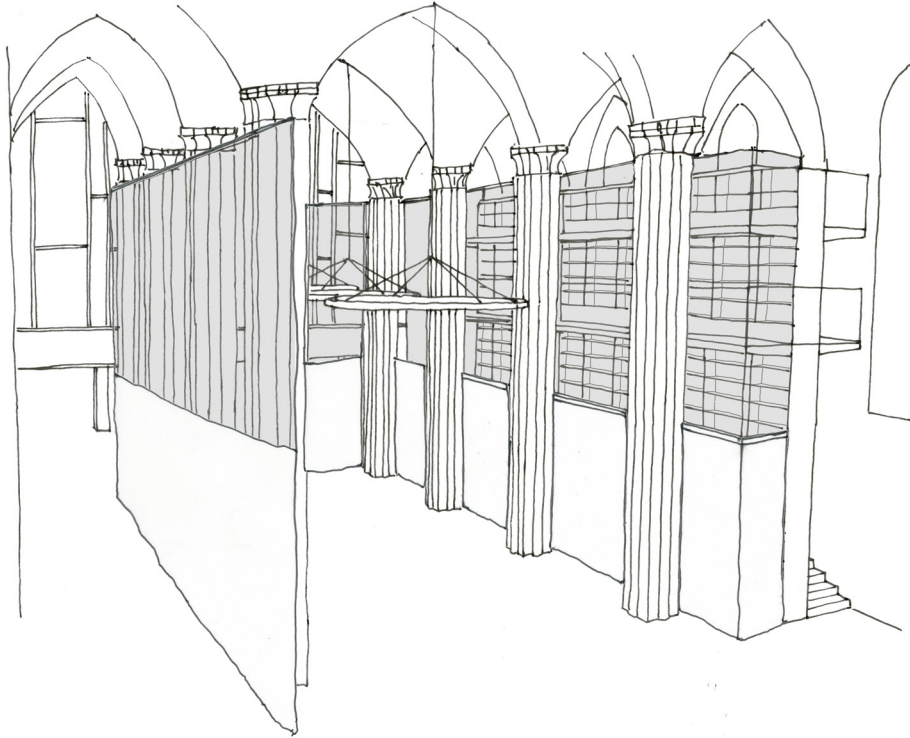
Adapting materials



Bookcase



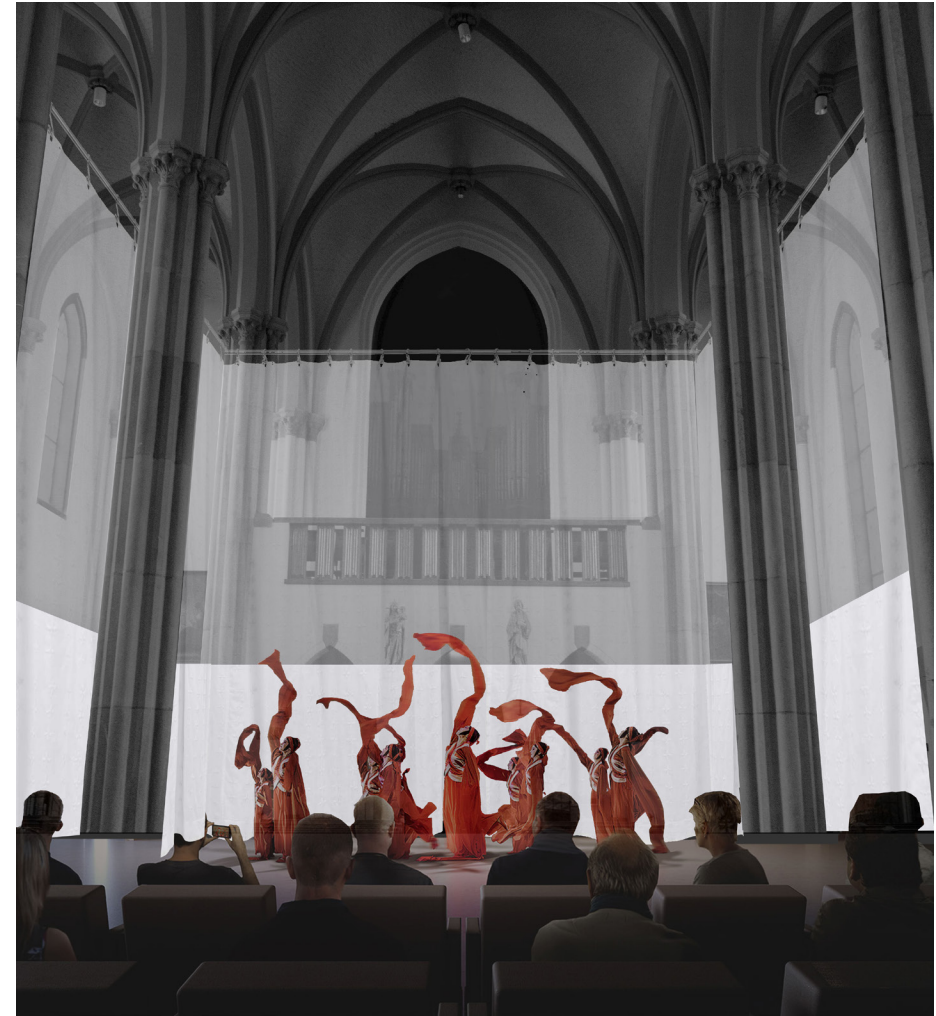
Nave during the day



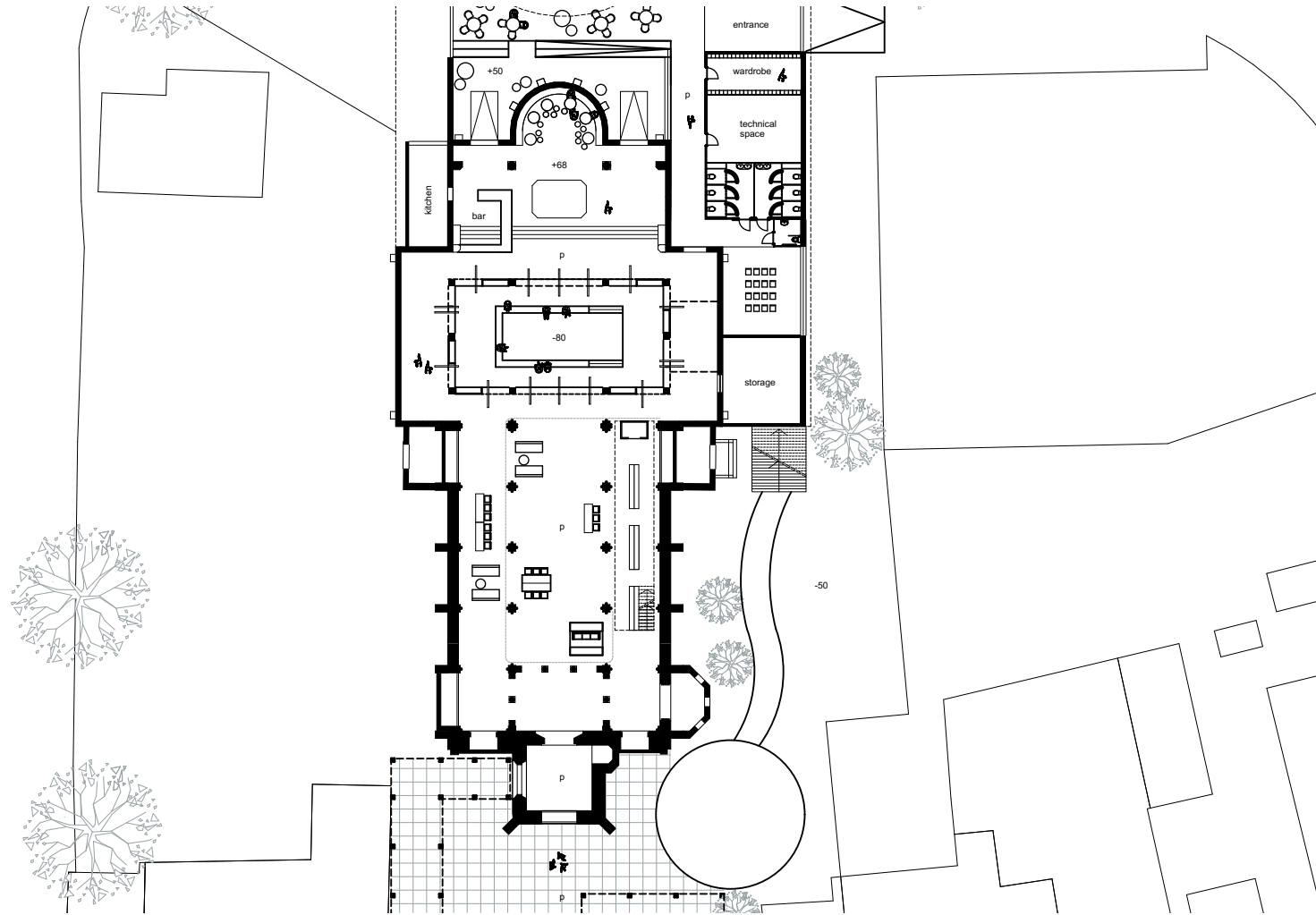
Nave during the night



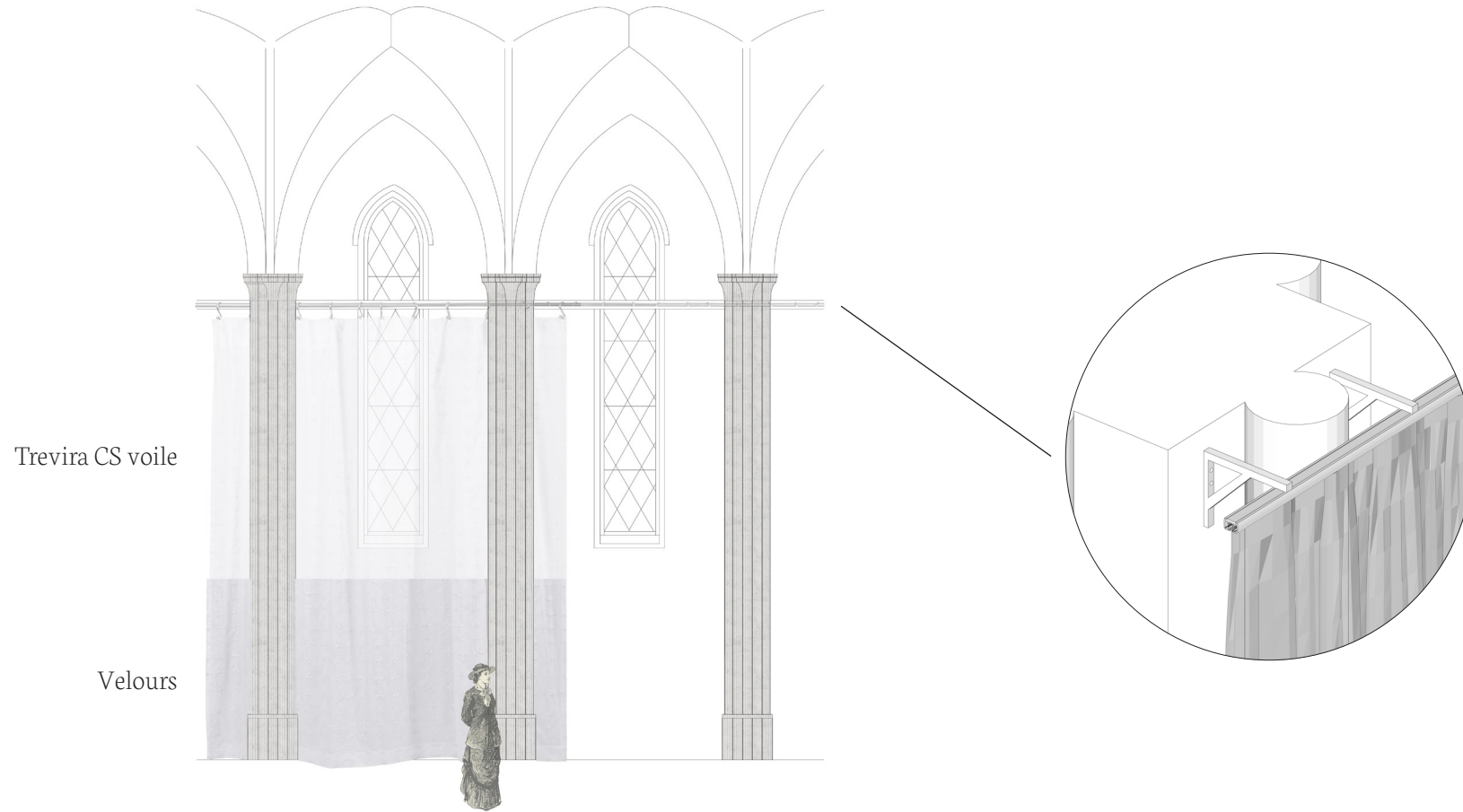
Library during the day



Event space in the evening



Floorplan



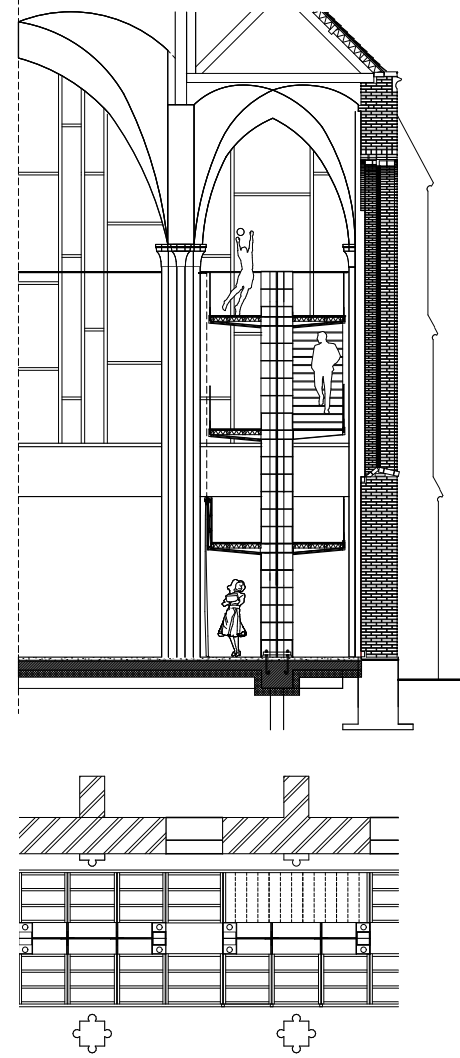
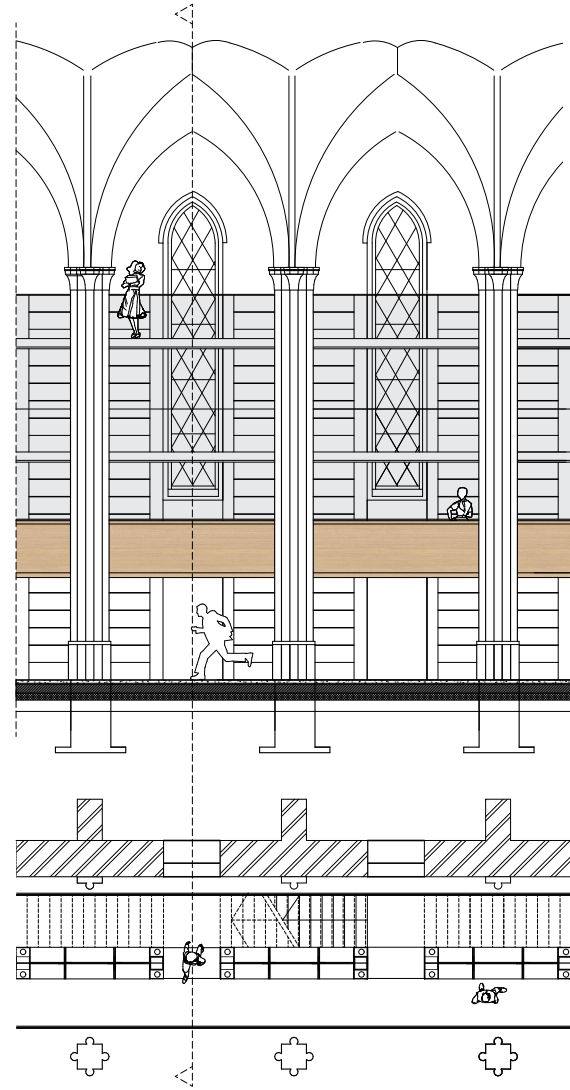
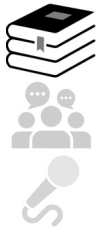
Trevira CS voile

Velours

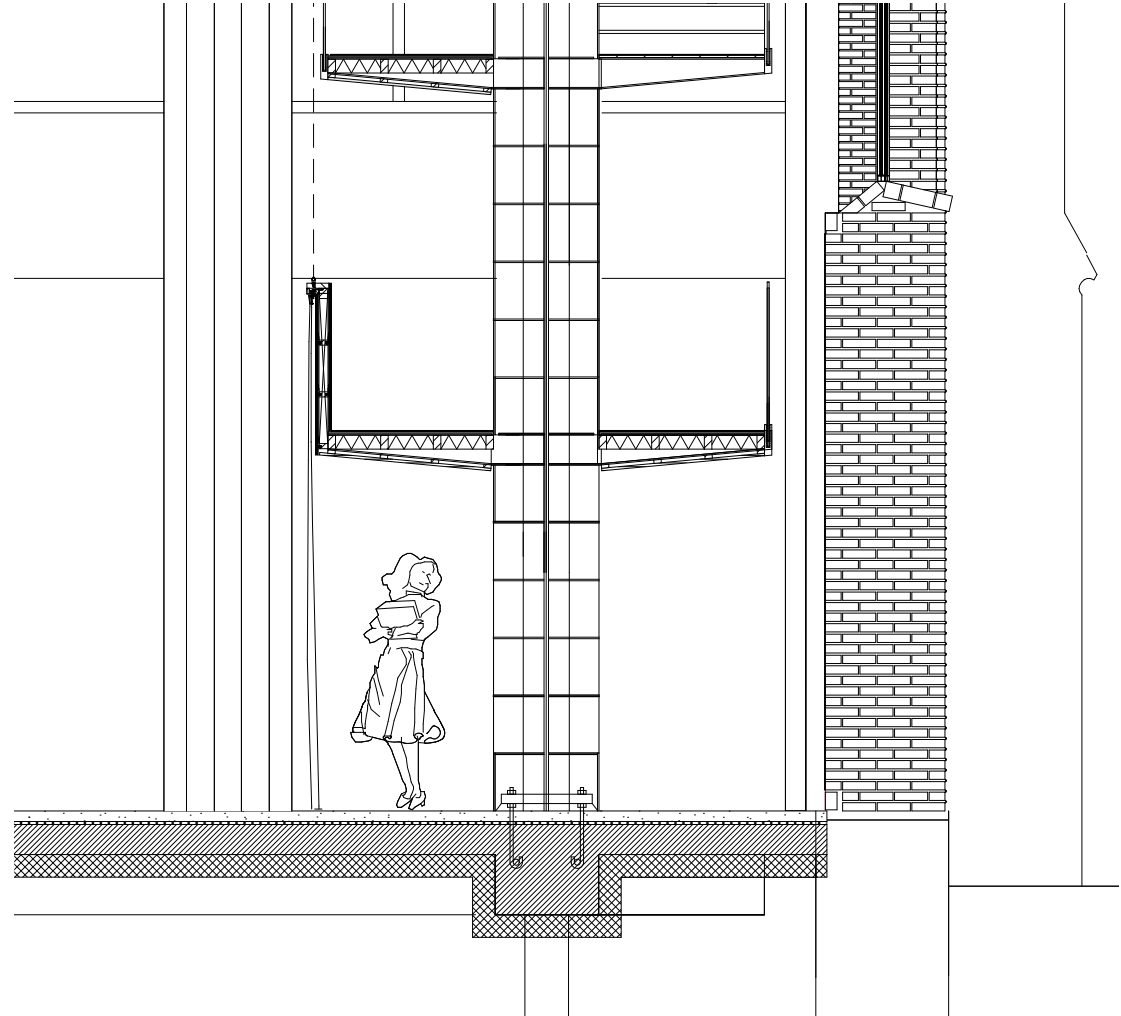
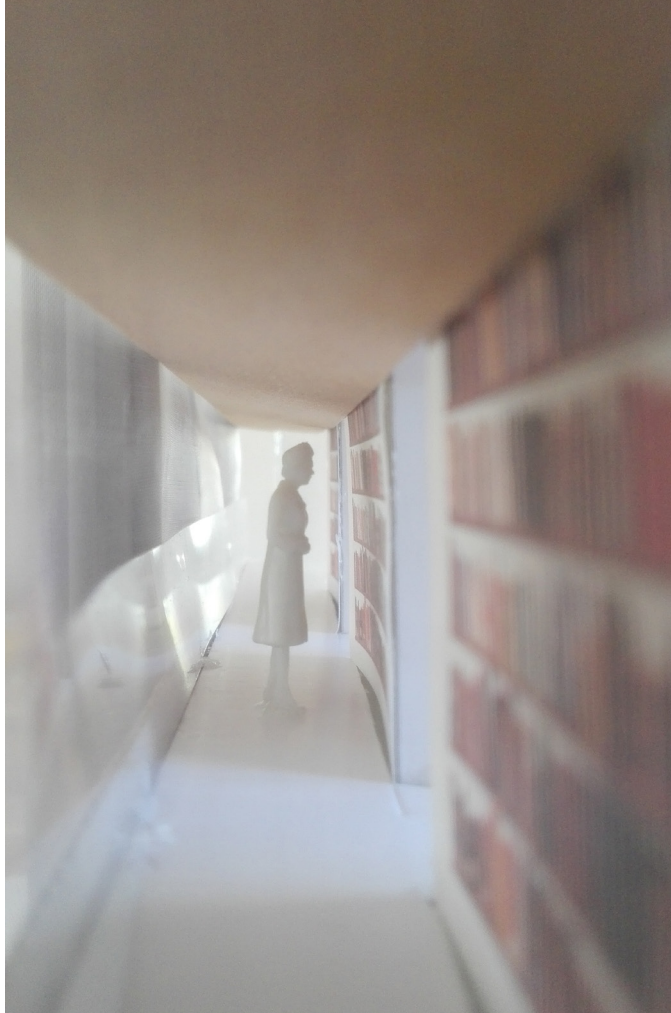
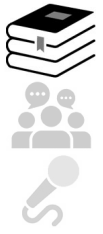
Curtain



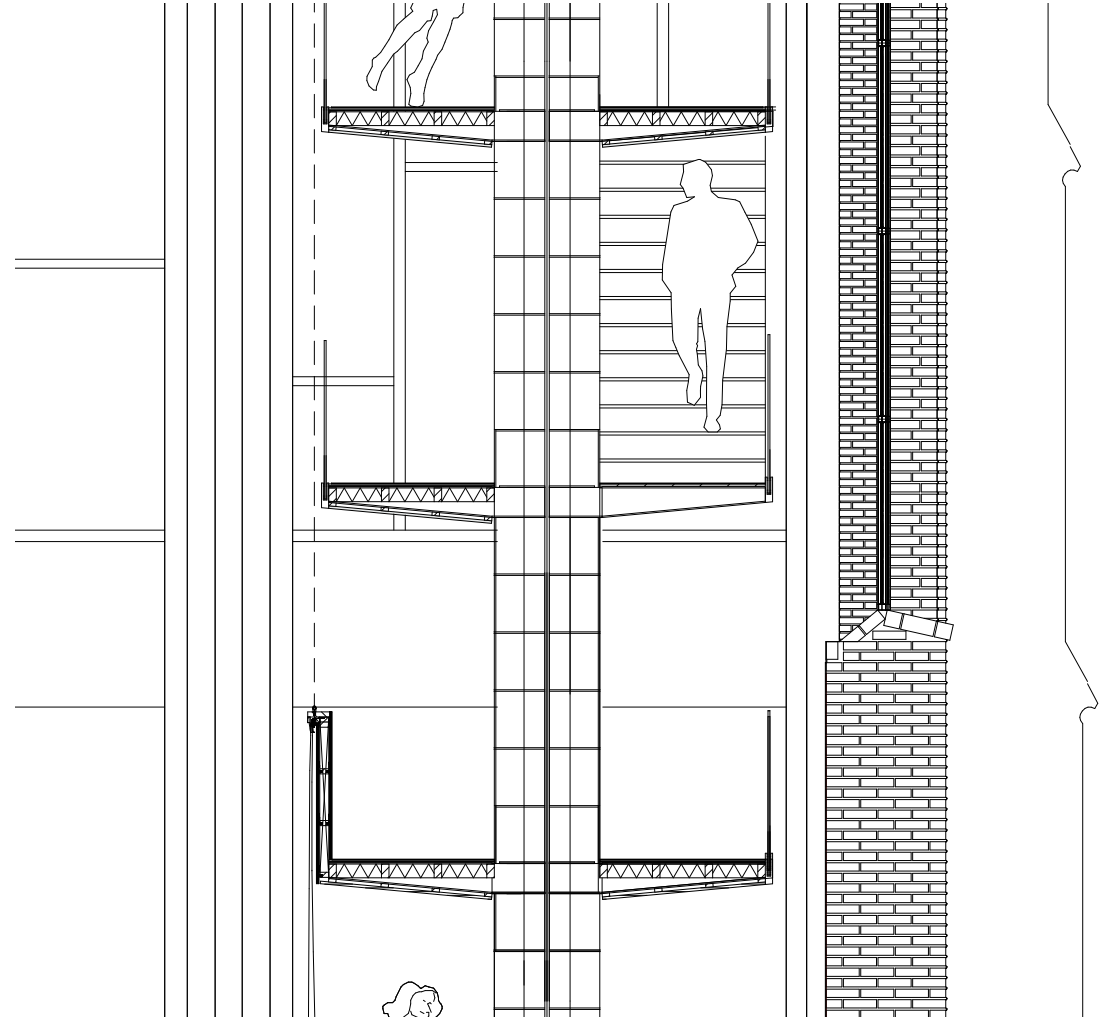
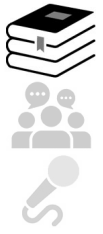
Curtain around the nave



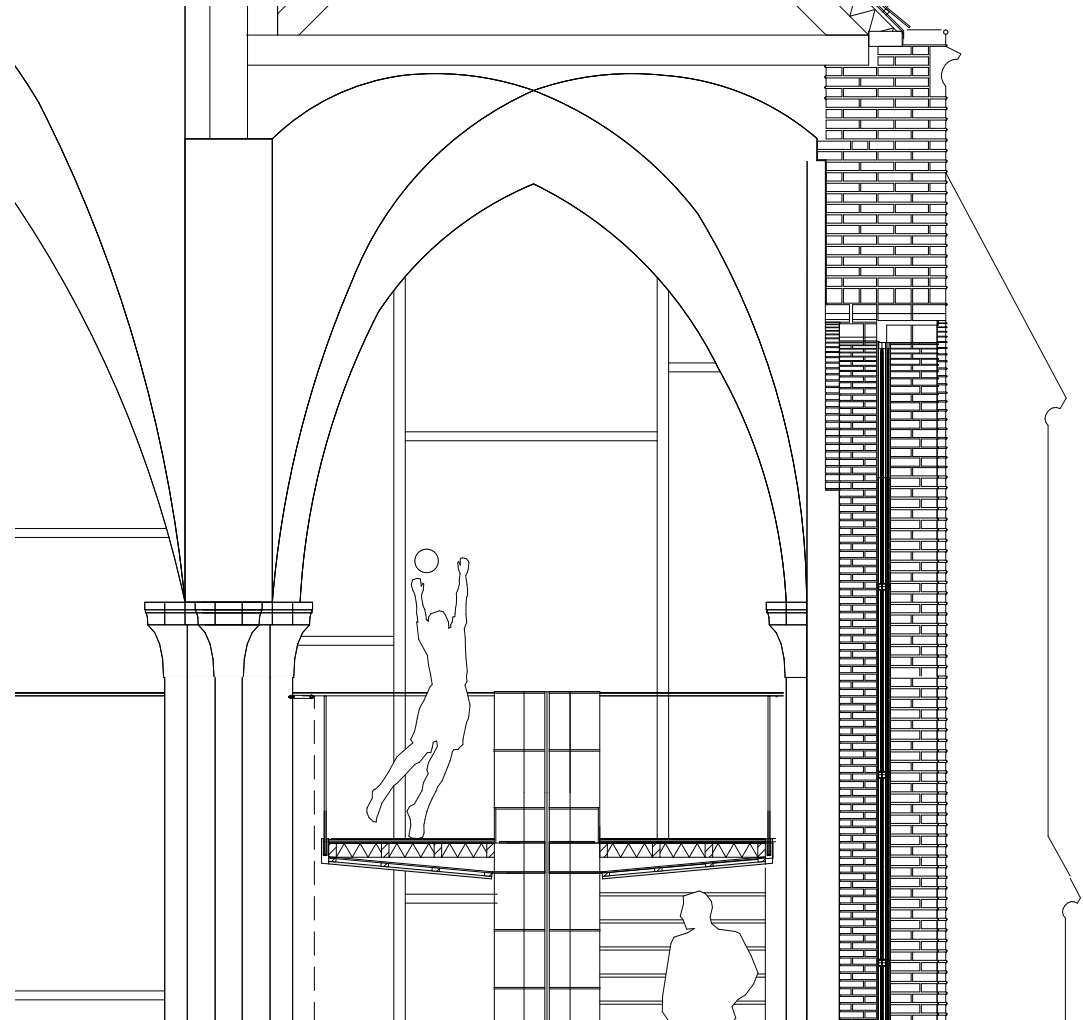
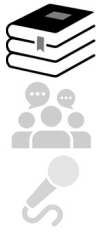
Bookcase



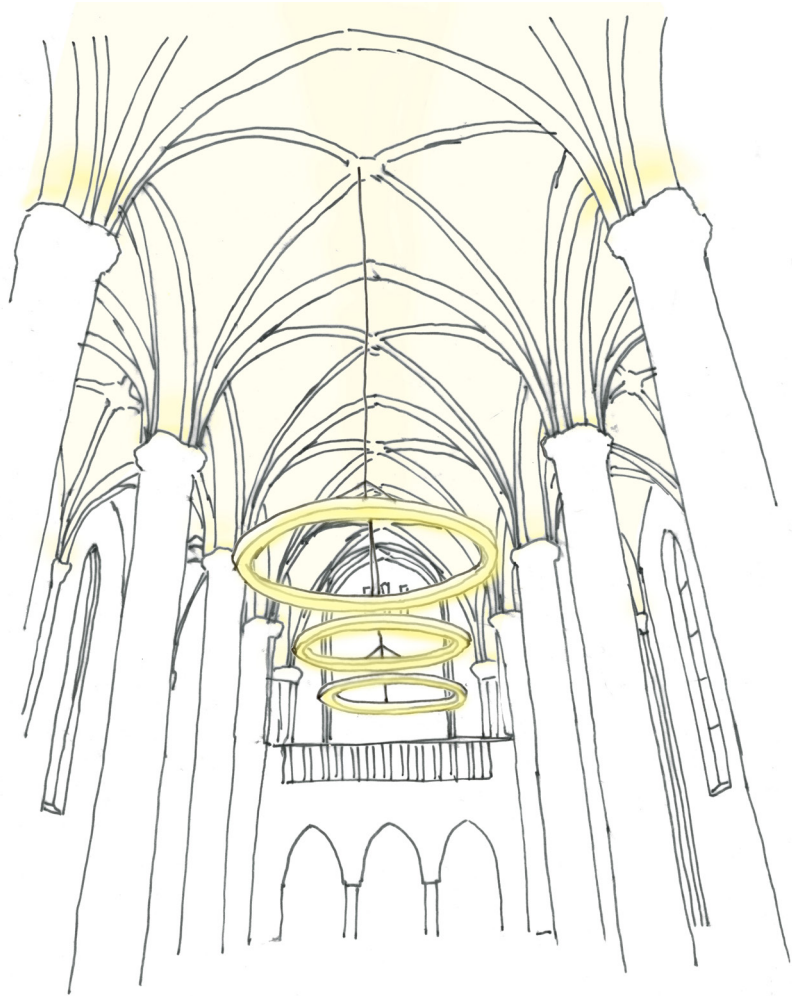
Floors of the bookcase



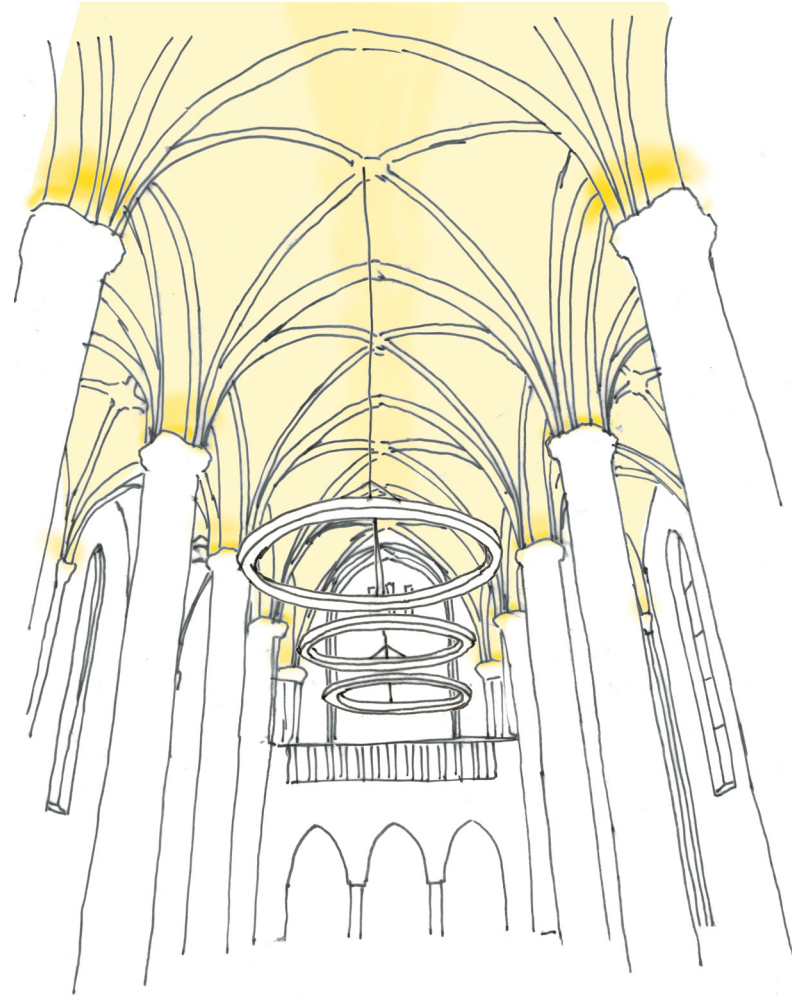
Stairs



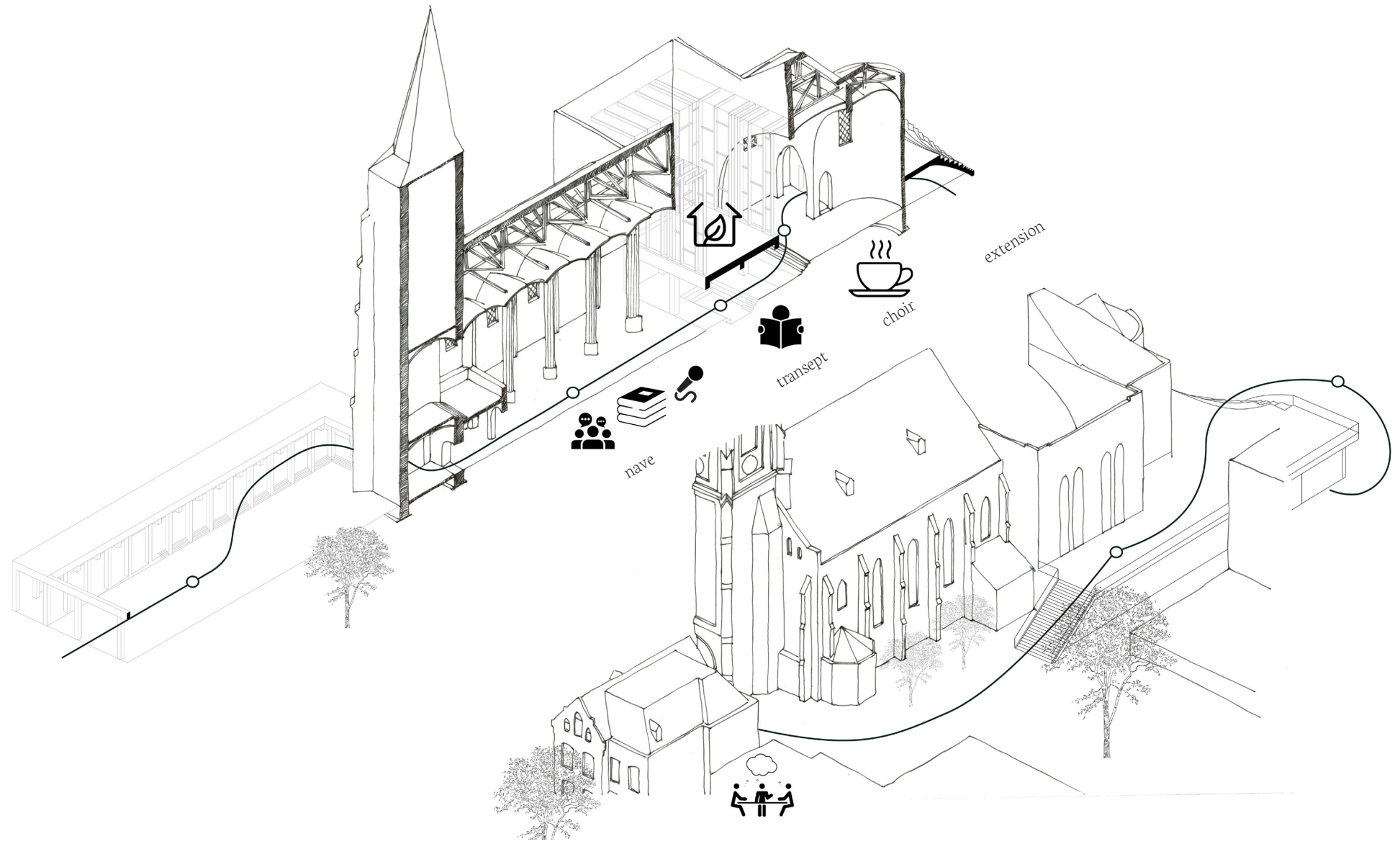
Top floor of the bookcase



Lighting during day

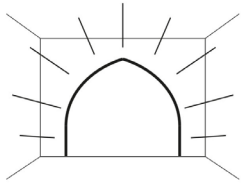


Lighting in the evening

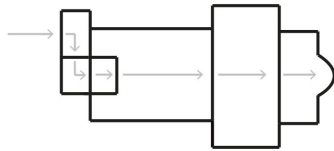


Interventions

Values

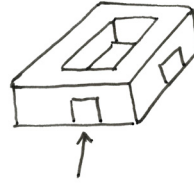


1950s intervention: open up



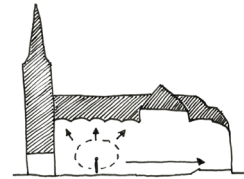
spatial sequence

Principles



the church as public square

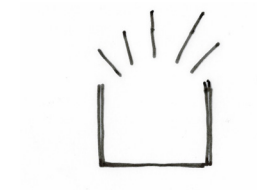
The church becomes a public square, the meeting place for the whole community.



sightlines

Preserve the sightlines in the church.

Interventions



take the roof of

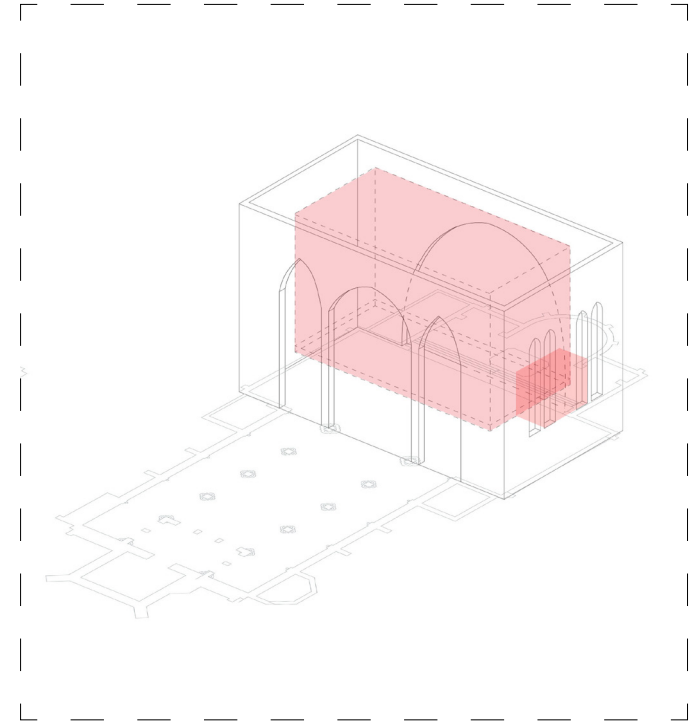
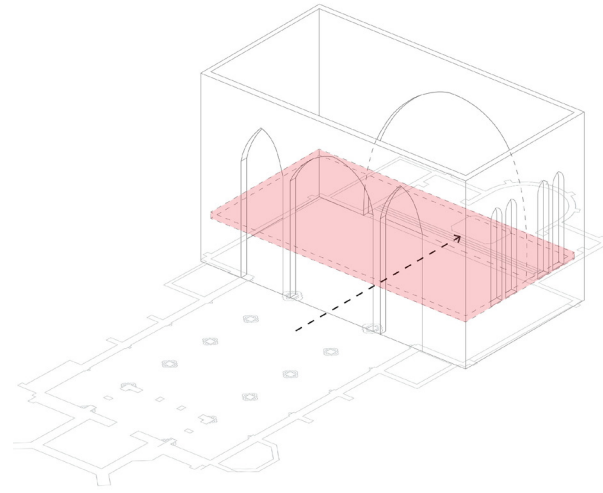
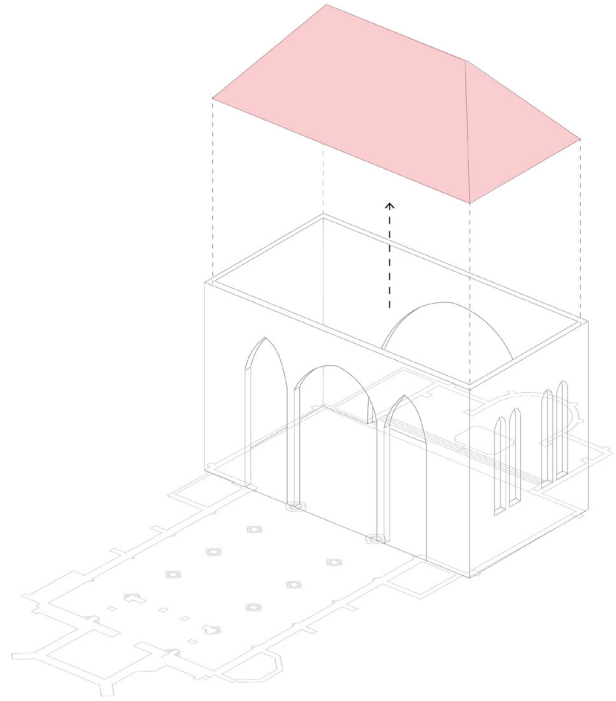
Create a public outdoor space inside the church.



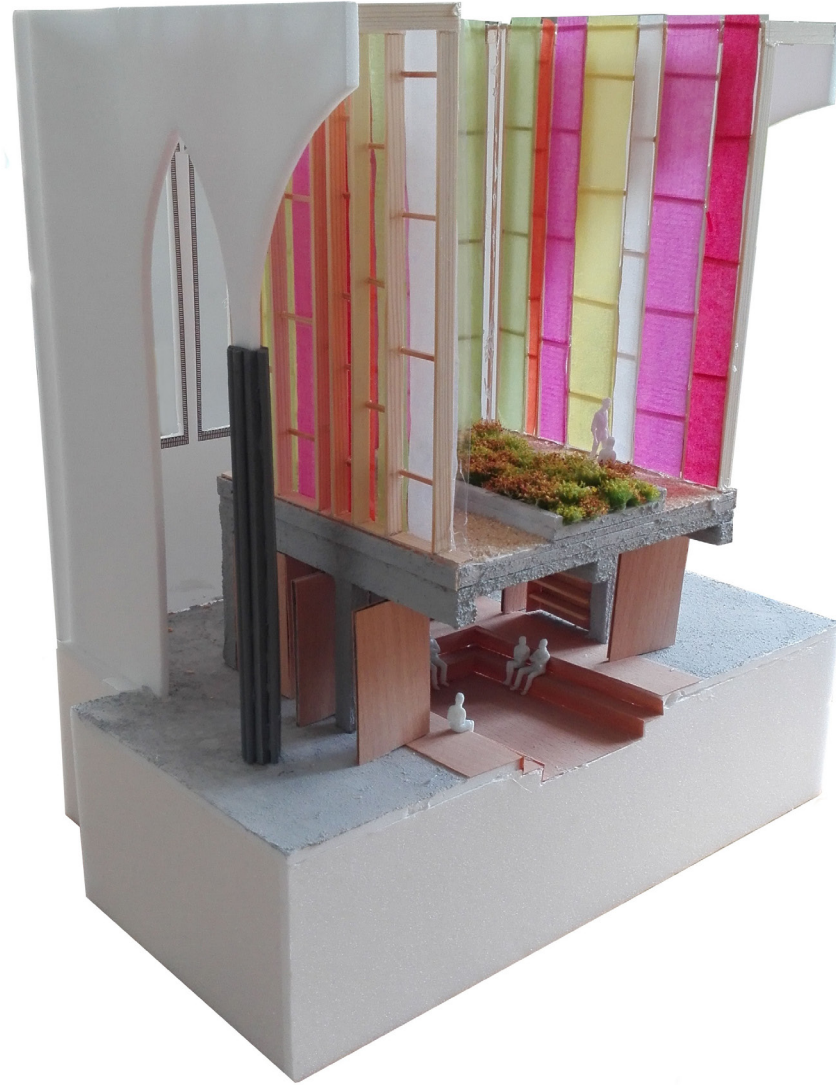
addition of new element

A new element inside the space.

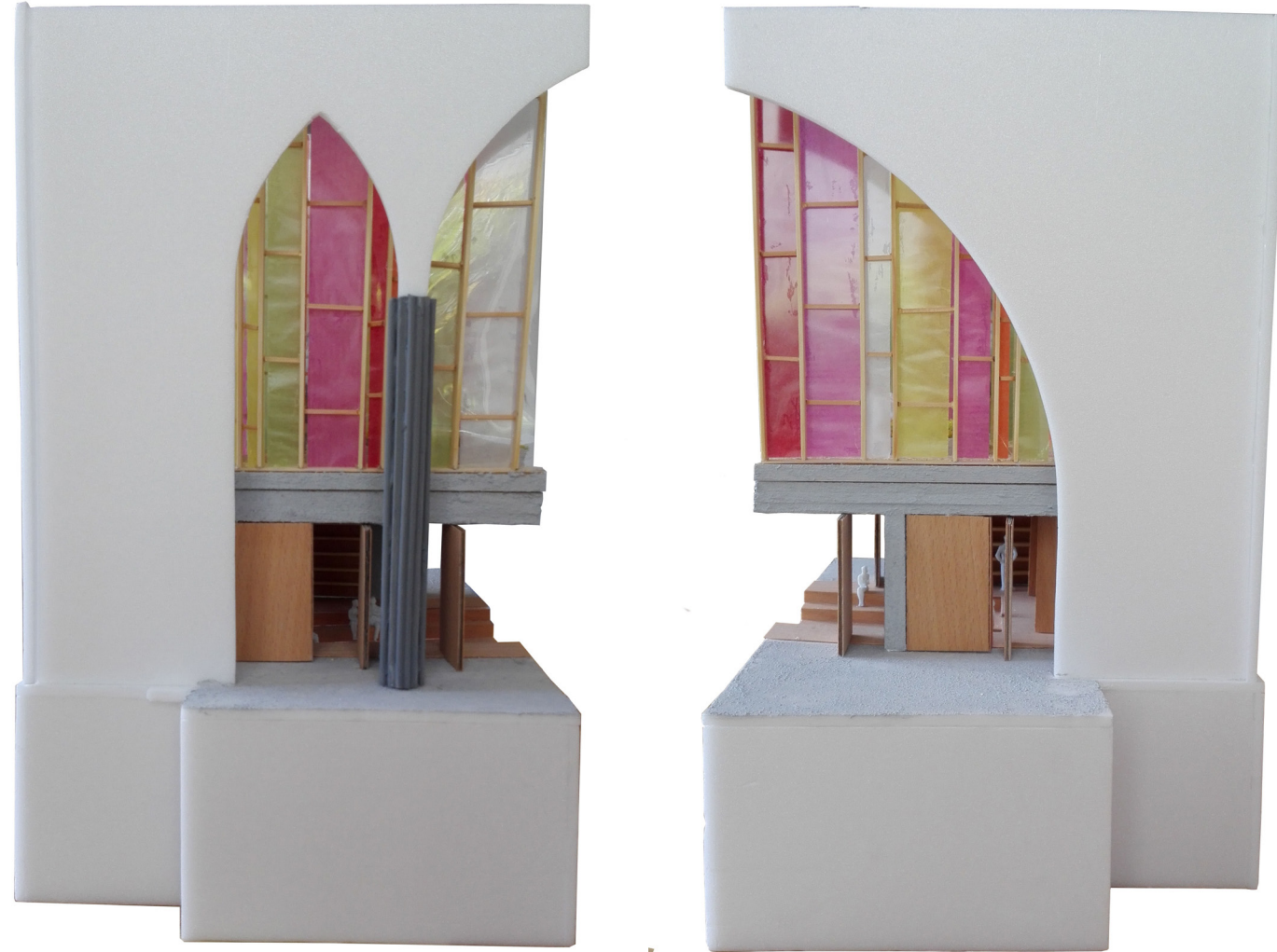
New element



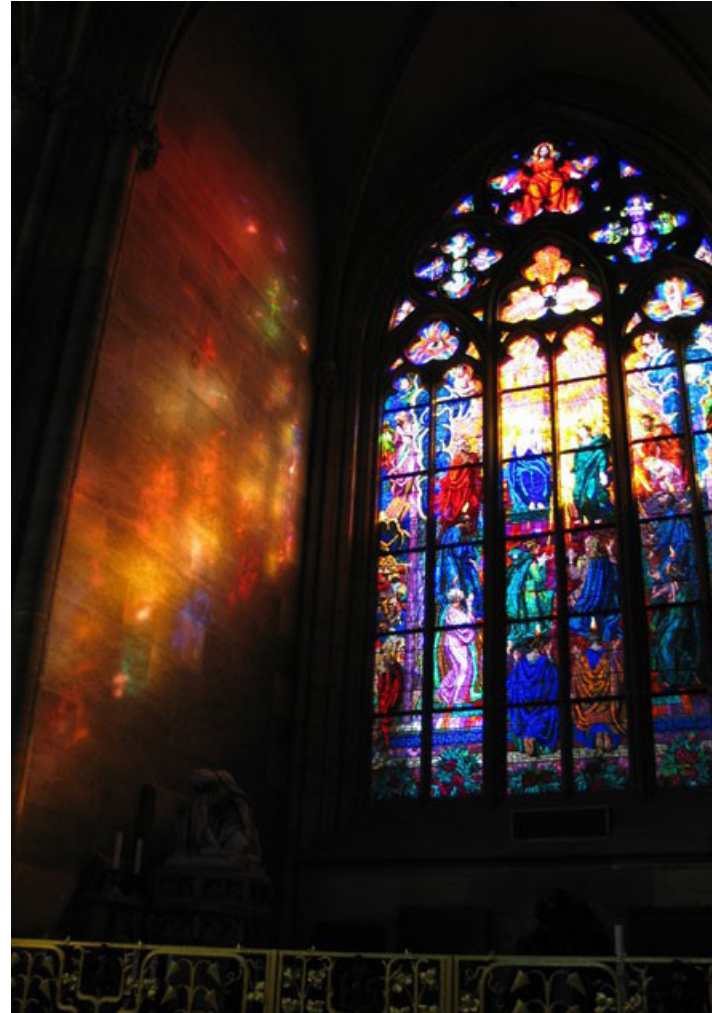
New element



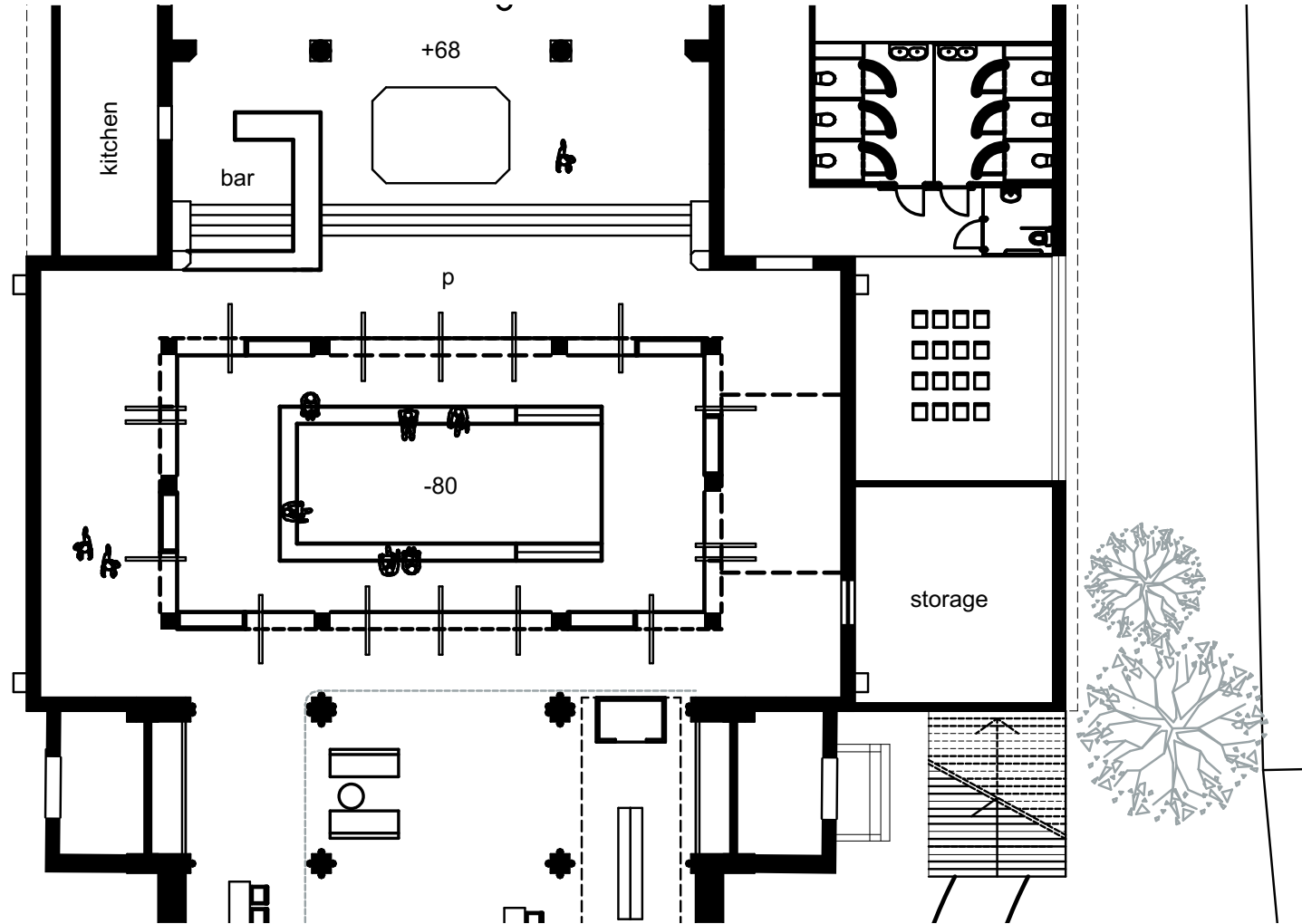
Model



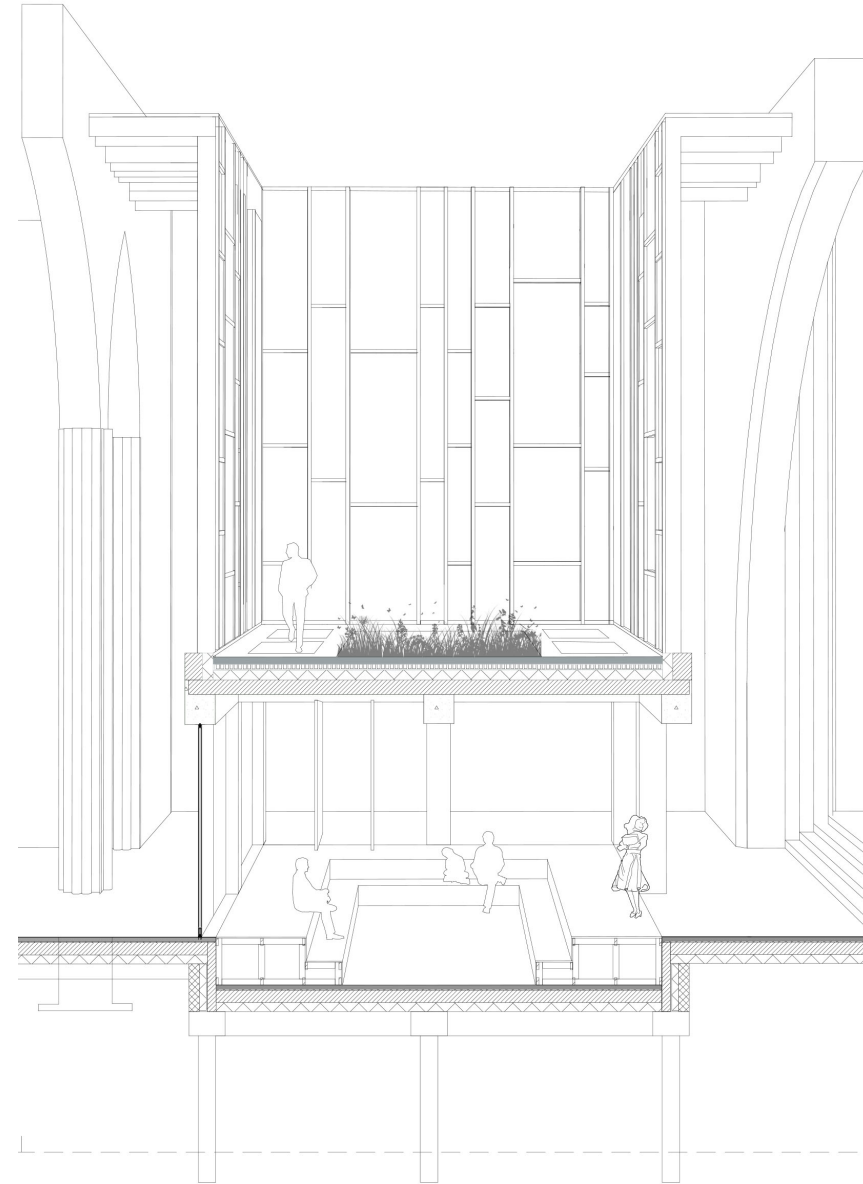
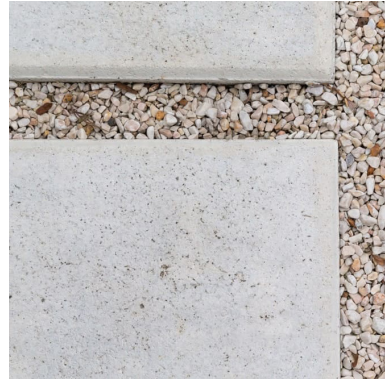
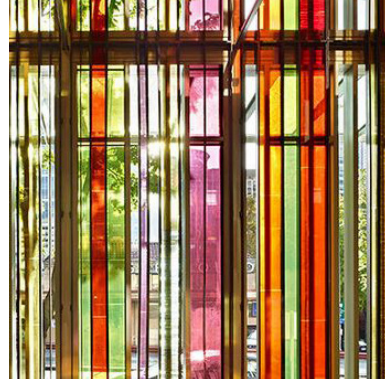
Model - view from the nave and from the choir



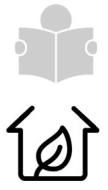
Inspiration: stained glass



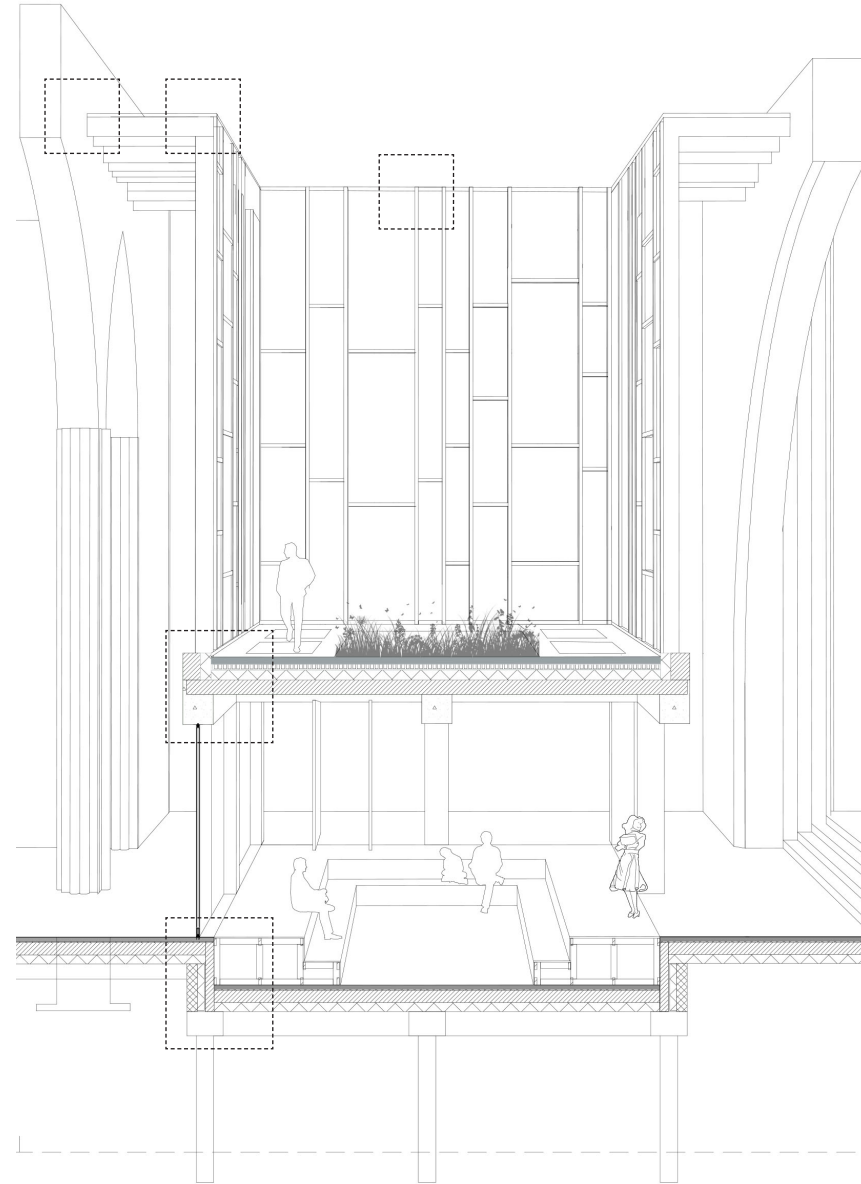
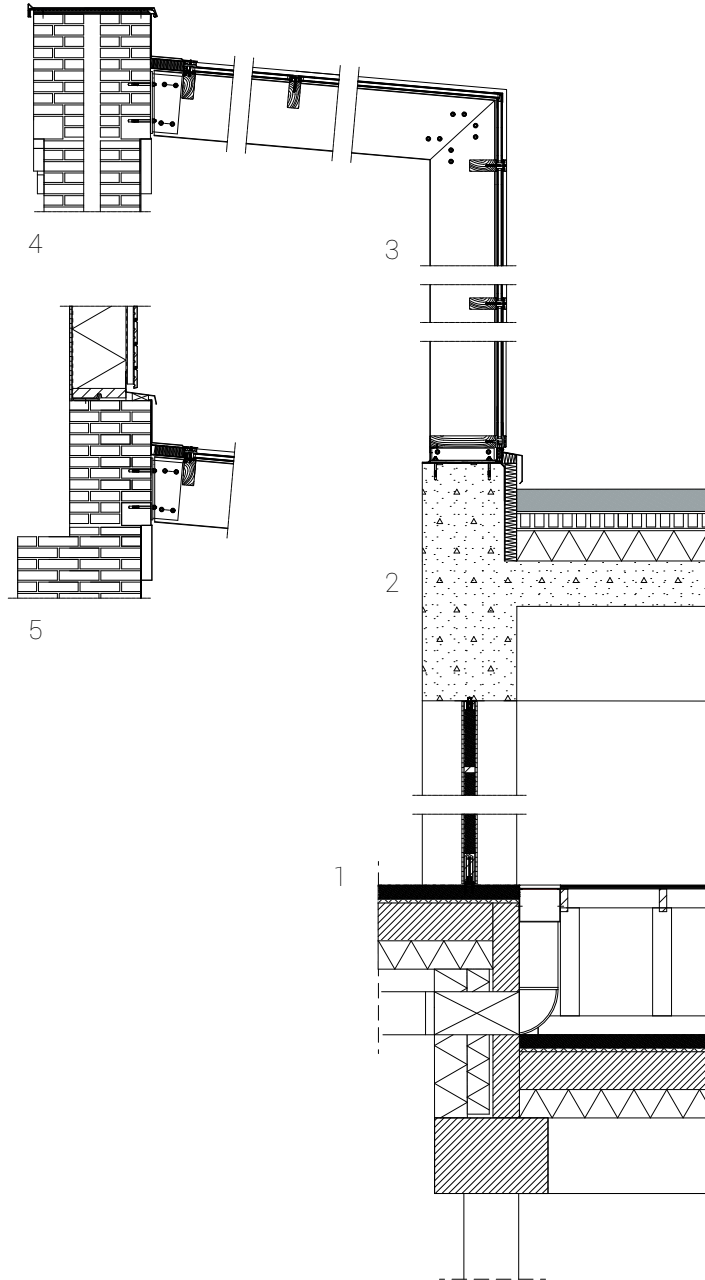
Floorplan ground floor

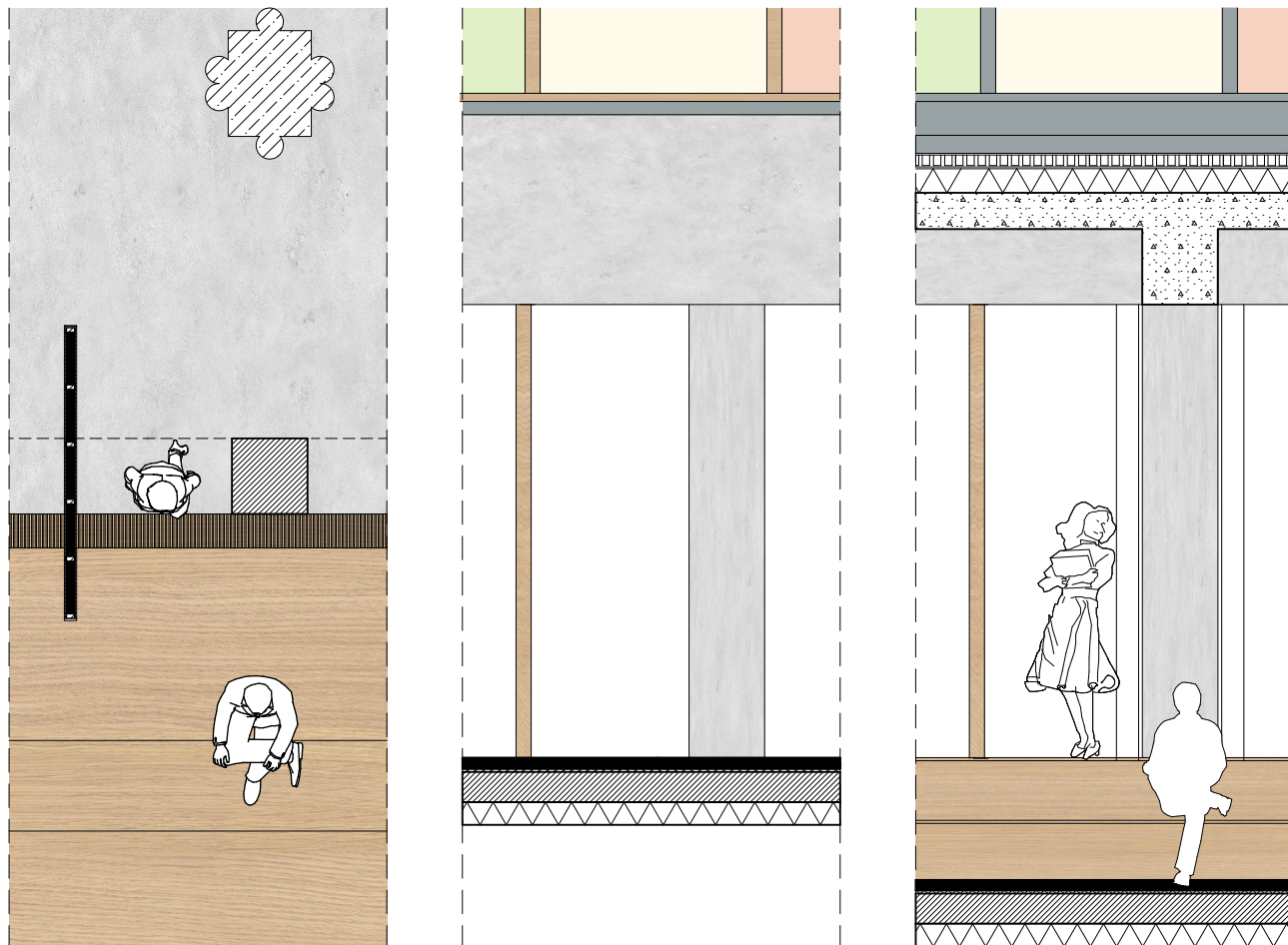


Materials

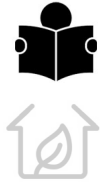


Interior garden

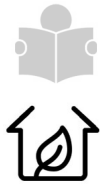




Fragment



Reading room



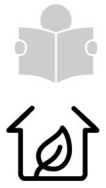
Vanceva coloured glass

timber curtain wall

plants & gravel
soil
water buffer
waterproof layer
insulation 160 mm
concrete floor 250mm

beam poured concrete

concrete precast
column 500x500mm



Vanceva coloured glass

timber curtain wall

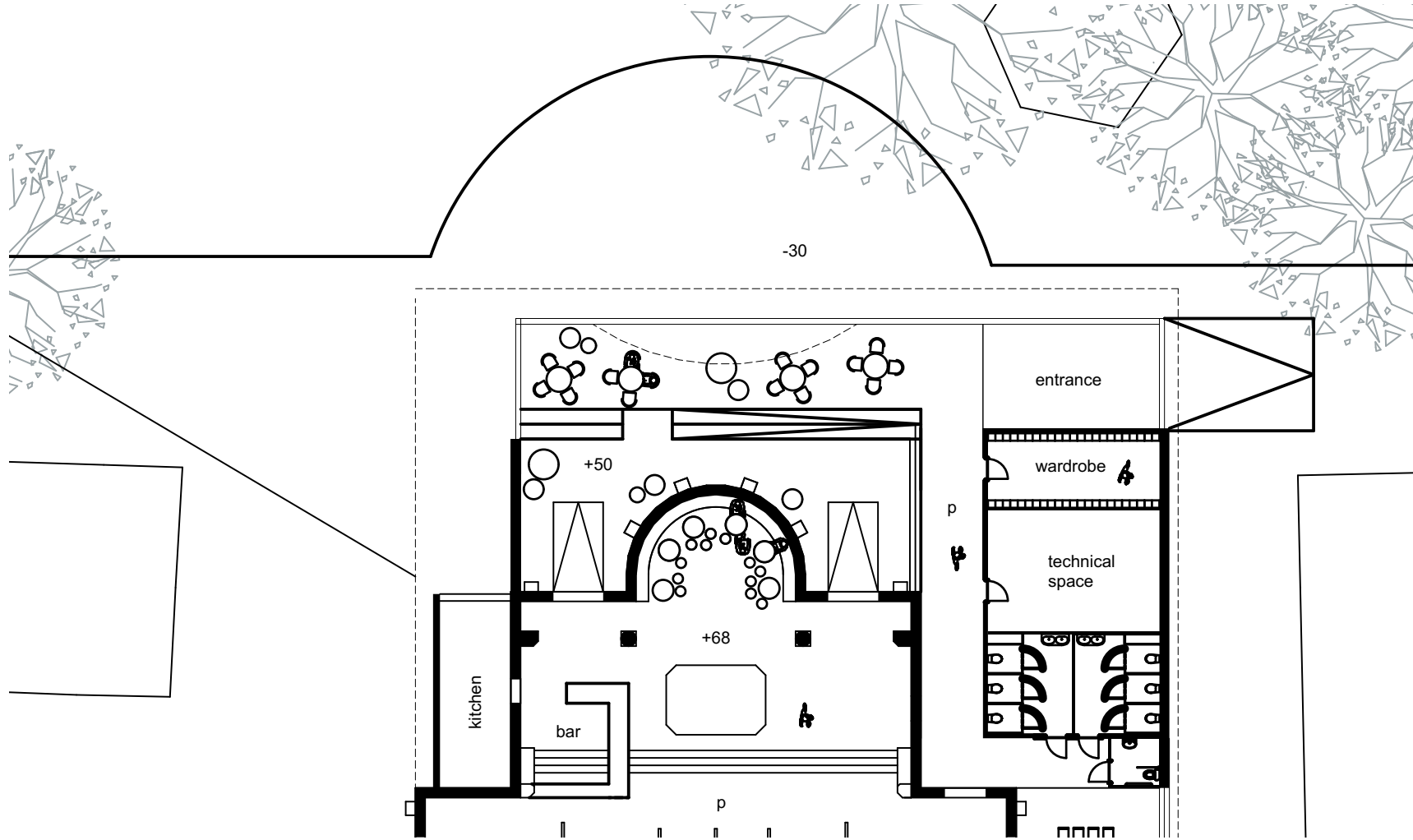
plants & gravel
soil
water buffer
waterproof layer
insulation 160 mm
concrete floor 250mm

beam poured concrete

concrete precast
column 500x500mm



Colors reflected in the interior



Floorplan ground floor



Extension of the café



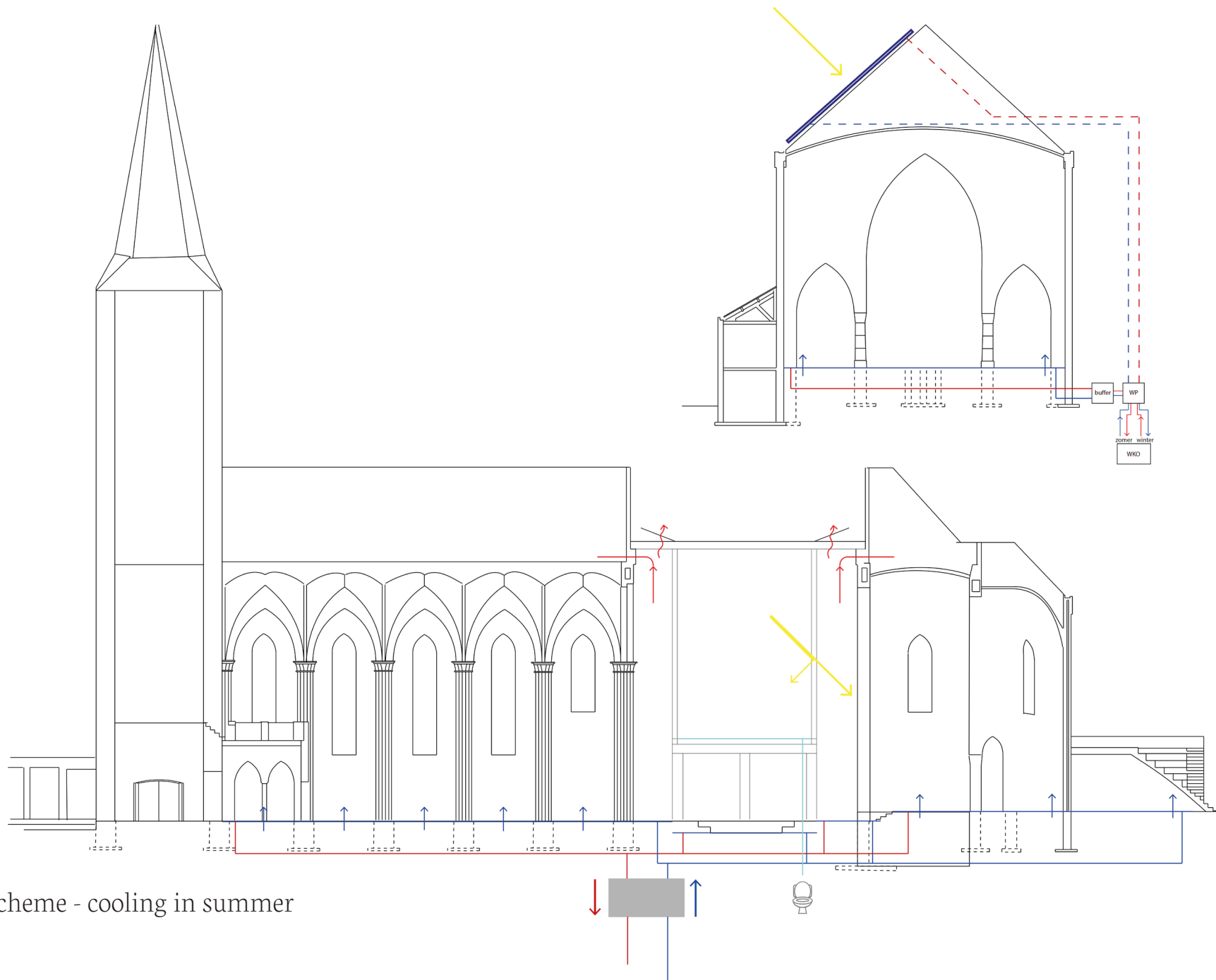
Interventions



Climate scheme - ventilation



Climate scheme - heating in winter



Climate scheme - cooling in summer

