

Circular Retreat

House of Modern Rituals

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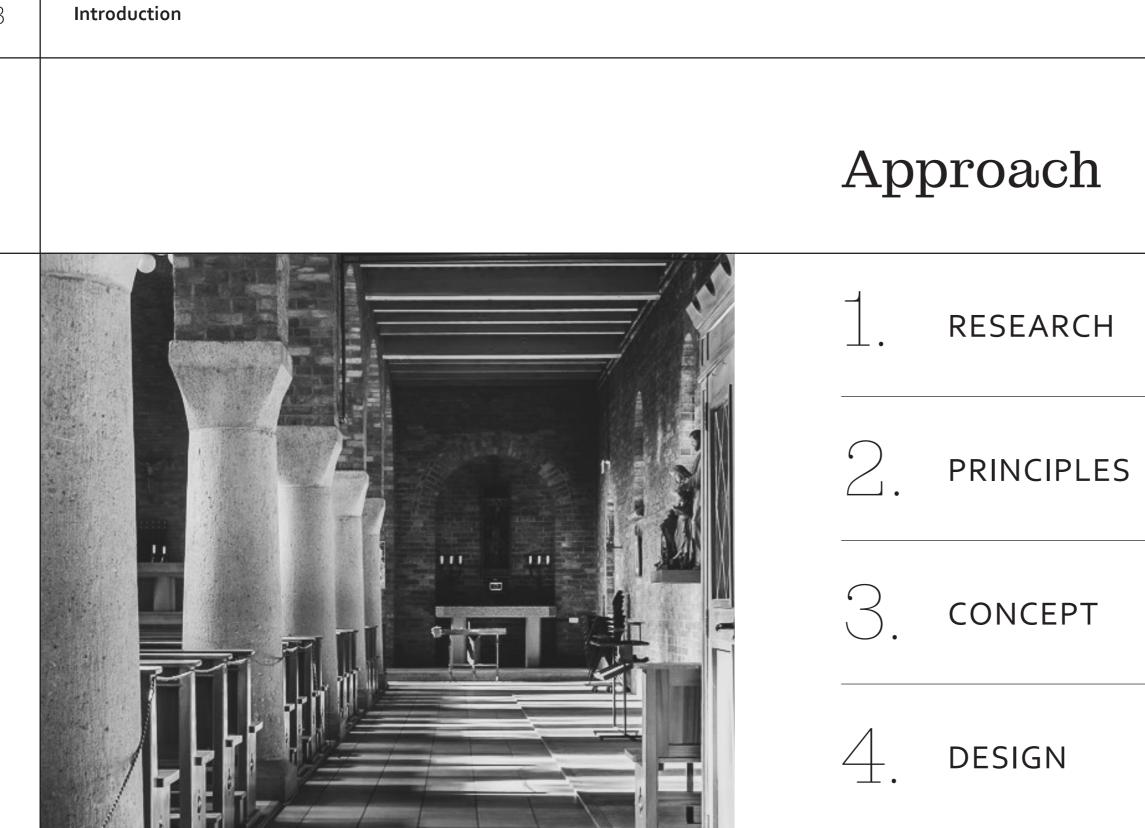
03-07-2023

Heritage & Architecture



Revitalising Heritage

The design tells a story about how we should live in harmony with our natural environment, ourselves and others. It encapsulates the shift between religion and spirituality by illustrating the individual, impermanent, and imperfect nature of the spiritual in contrast to the collective, permanent, and perfect structure of religion.



\longrightarrow	Defining spirituality and research into what architectural qualities can help evoke spiritual experiences
\longrightarrow	Defining design principles that result from the research
\longrightarrow	Create a concept for the redesign with the gathered information and design principles
>	Follow the principles while designing to create spiritual architecture

04	Introduction		
		Motivation	
		☐ SECULARISATION	>
		2. ZEROWASTE	
		3. SPIRITUALITY	\longrightarrow

As a result of secularisation and the shift from religion to spirituality, there is a noticeable increase in vacant church buildings.

How can we make the building relevant again without losing the social and spiritual values of the church?

In this research a design strategy is proposed that revises the original function in a way it can better accommodate the modern spiritual needs. In a way it reuses the original function and values.







St. Dominicus church Utrecht, Oog in Al The Netherlands

St. Dominicus church



Case study

The neighborhood Oog in Al is centrally located in between Utrecht city centre and the centre of Leidsche Rijn

Project location

A connection between city centers



Case study

Project location

The Heart of Oog in Al

The St. Dominicus church is situated on a island in the middle of the neighborhood and lays hidden behind overgrown greenery.

08	Case study		
	Value assesment		
	SECLUDED	BUILDING ELEMENTS	FURNI
	Hidden quality	Aesthetics	Material value
	The greenery that surrounds the church and hides it from view can be considered a quality for the	The Bossche School and Romanesque architectural elements give the church its	Thefurnitureofth considered valual caretaker. This g

character.

new design.

NITURE

INTANGIBLE VALUES





ue

new design.

The furniture of the church were not considered valuable by the church caretaker. This gives oppertunity to reuse some elements into the

Impression

These values include the original use and function of the building, and the atmosphere of the spaces.

How can contemporary spiritual values help repurpose the St. Dominicus church?

The individual

Instead of collectively worshiping an external being, spirituality focusses on personal spiritual experiences.

Architectural elements

 \sum

Architecture can be a tool to help design more spiritual experiences.

Modern Rituals

Modern rituals are reinterpreted to be more inclusive of various beliefs and separate spirituality from religion.

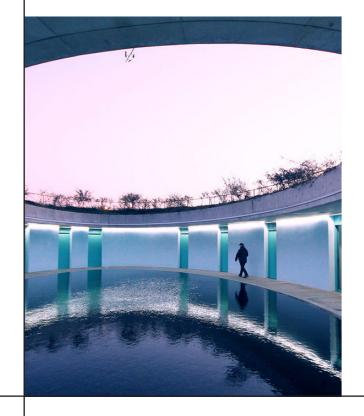


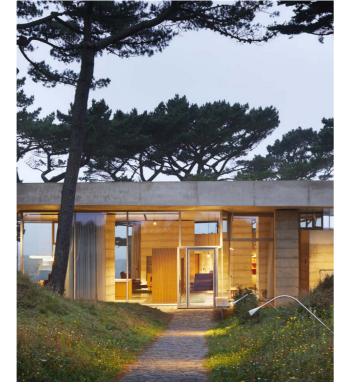
Spiritual concepts

To help evoke spiritual experiences, a design must adhere to bigger spiritual concepts.



















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Spiritual architecture

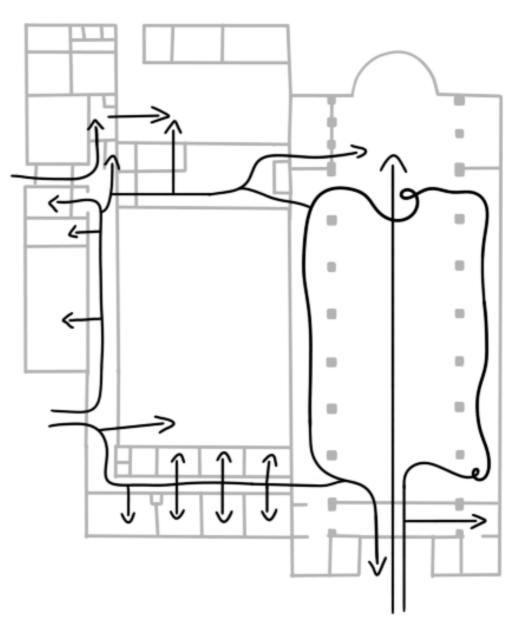
10 Design Principles for Spiritual Architecture

- Use prominent geometric forms
- Create at least one large and open space (inside or outside) 02
- Frame views of the surroundings with care
- Use homogeneous and solid materials that are long-lasting (unity, 04
- Use natural and weathered materials (or materials that weather over time) to show impermanence as a contrast to the solid structure
- Use reflective materials, such as water, to evoke meditation and
- Create a route that allows for different flows through the building
- Consider the connection with nature/the environment when
- Design with the history of the place and/or the building in mind
- Variate light and shadow to experience the rhythm, scale, and 10



All architectural elements of the church work together to create an atmosphere of awe, mystery and grandeur.

Spiritual architecture



Spatial qualities

Modern Rituals

CHURCH FUNCTIONS

Sunday mass (weekly) visitation celebrations/holidays ← → ce funeral ceremonies ←
wedding ceremonies
art expositions $\leftarrow $
Christian meditation (monthly) ←
evening vigils language lessons for asylum seekers (weekly) organization of meals

MODERN RITUALS



Modern Rituals

CHURCH FUNCTIONS

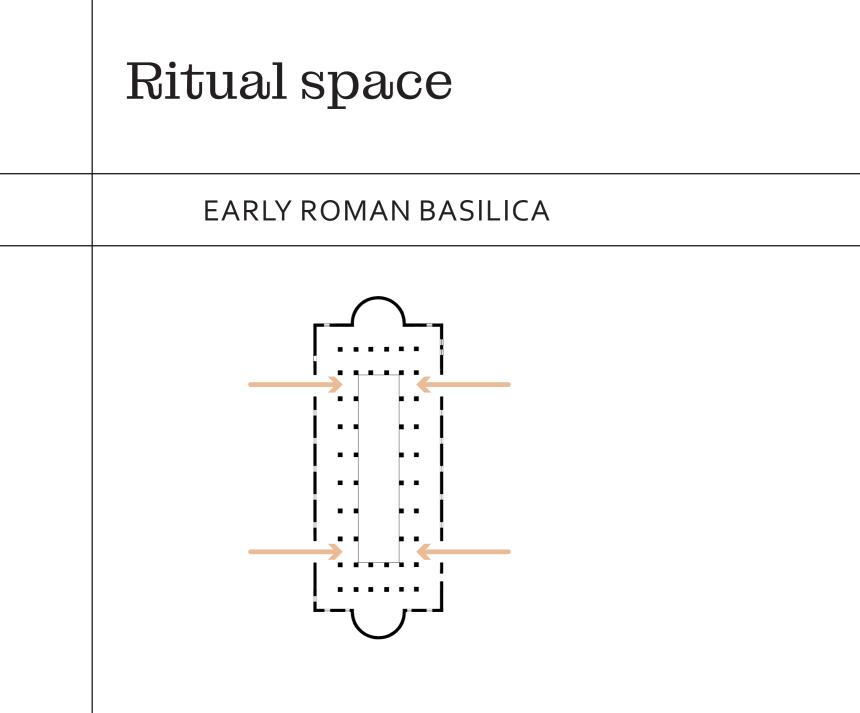
Sunday mass (weekly) visitation	
celebrations/holidays $\leftarrow \rightarrow$	cel
funeral ceremonies $\leftarrow $	
wedding ceremonies $\leftarrow $	
art expositions	_
small concerts ←	—
charity events	
Christian meditation (monthly) $\leftarrow $	_
retreat days (4x a year) $\leftarrow $	
evening vigils	
language lessons for asylum seekers (weekly) organization of meals	

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MODERN RITUALS

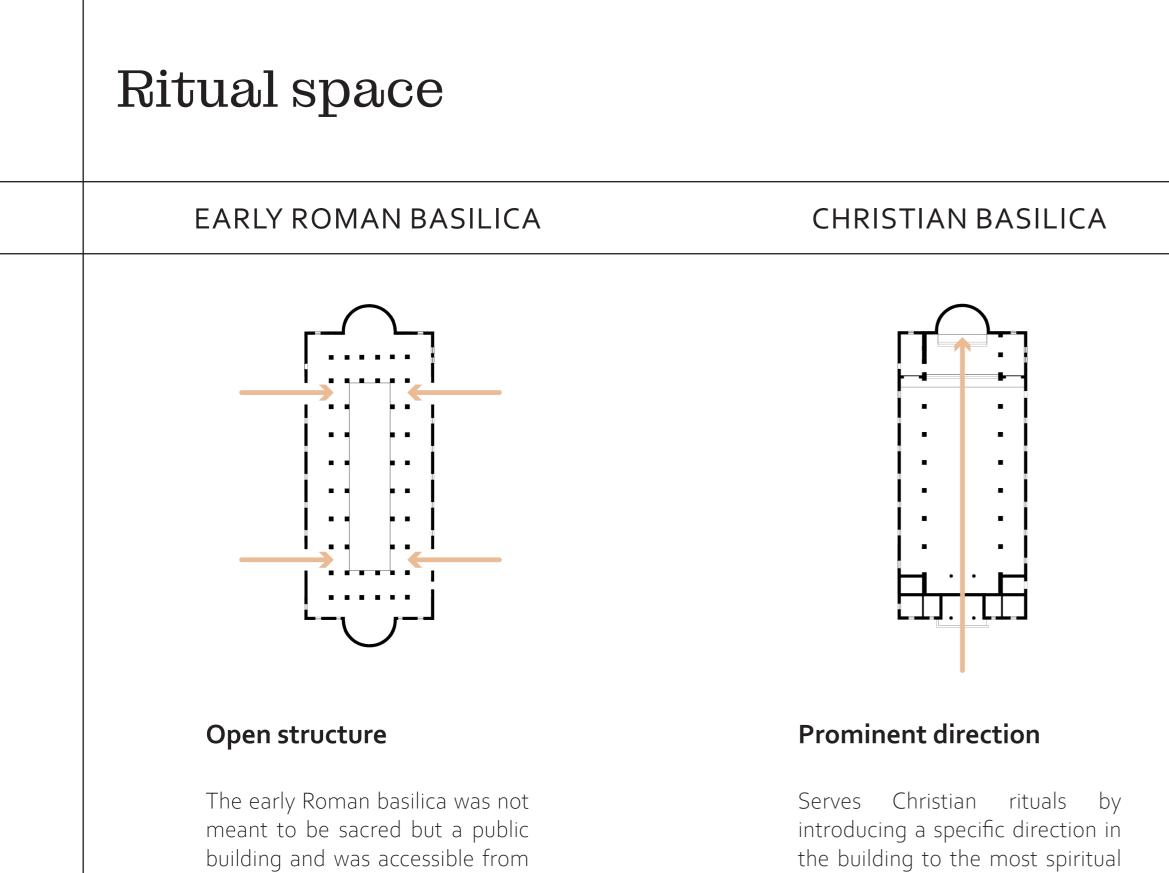






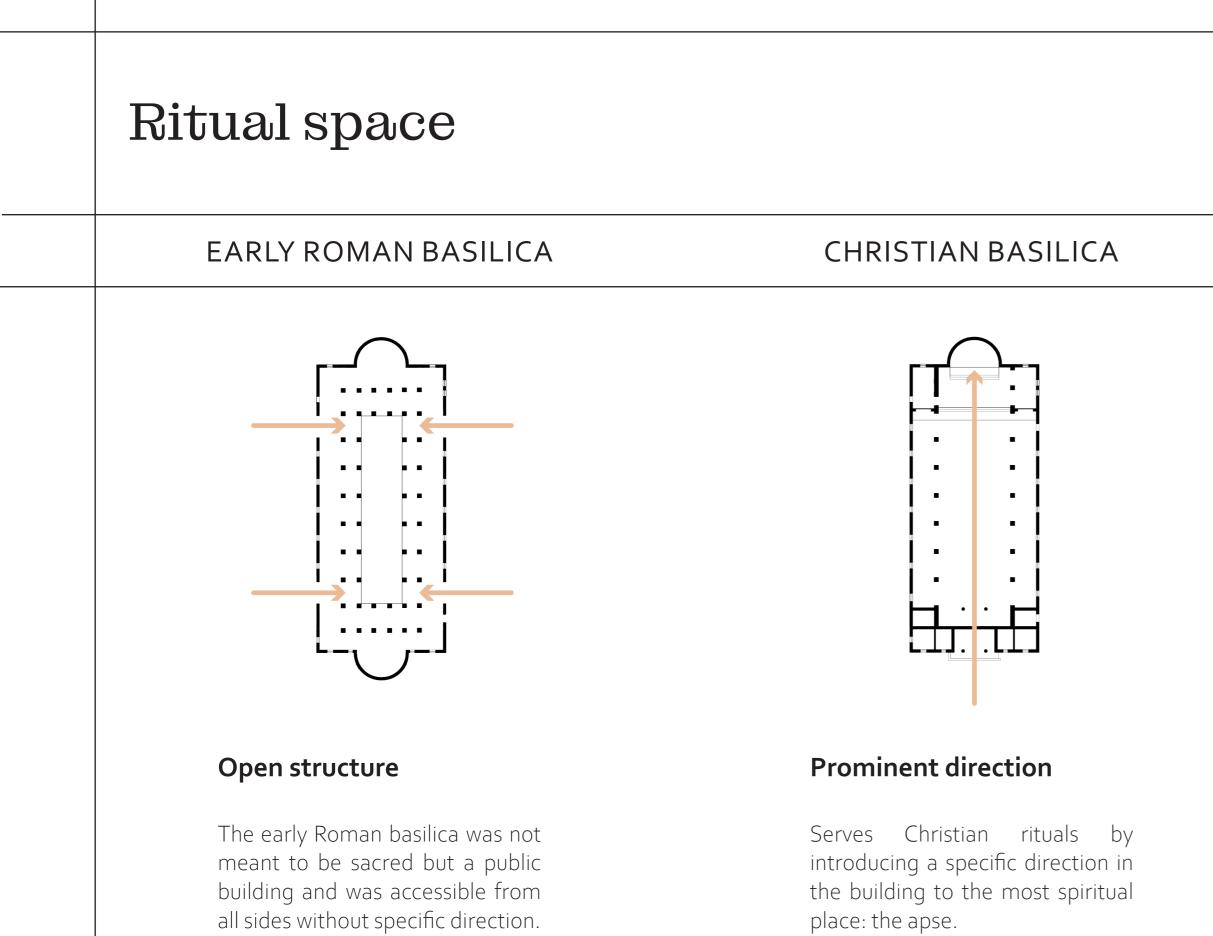
Open structure

The early Roman basilica was not meant to be sacred but a public building and was accessible from all sides without specific direction.

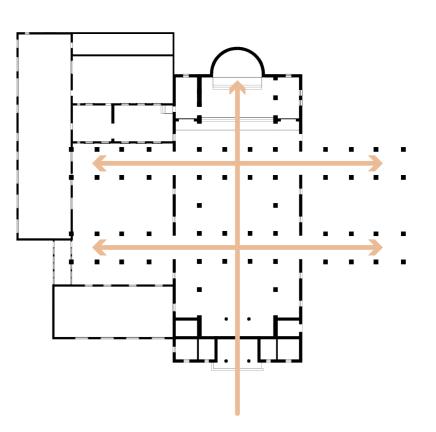


place: the apse.

all sides without specific direction.



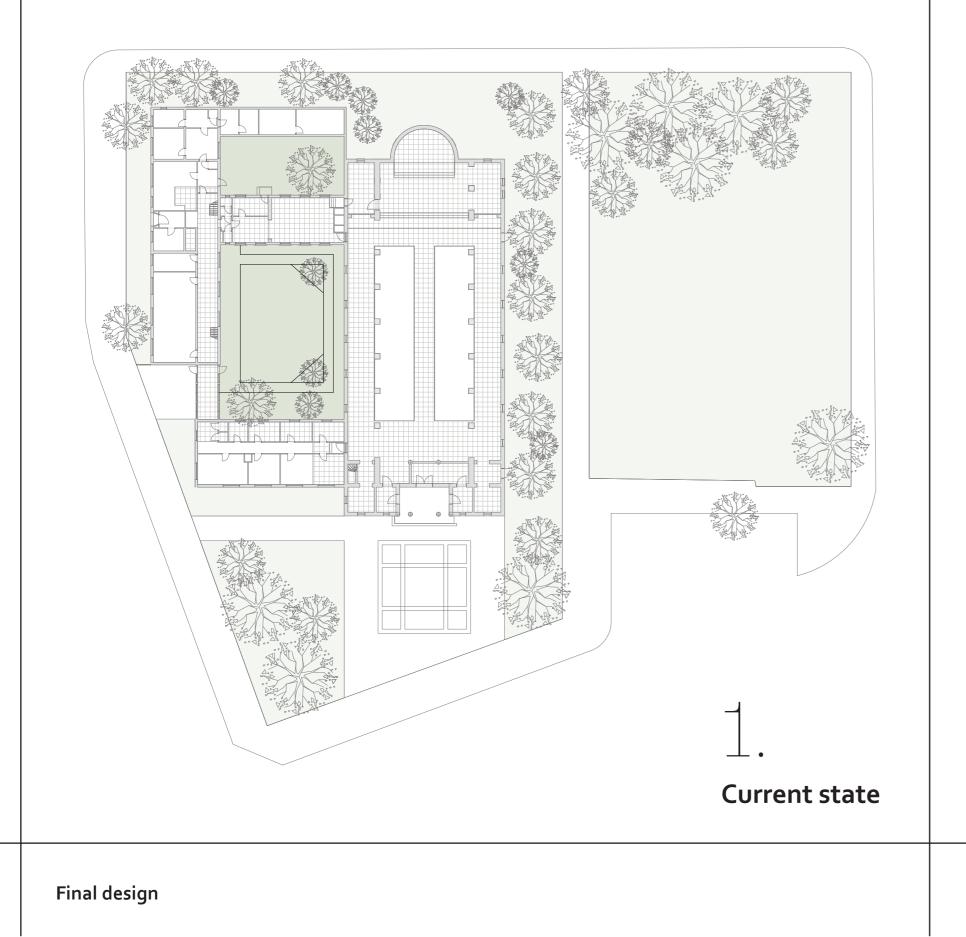
INTERVENTION



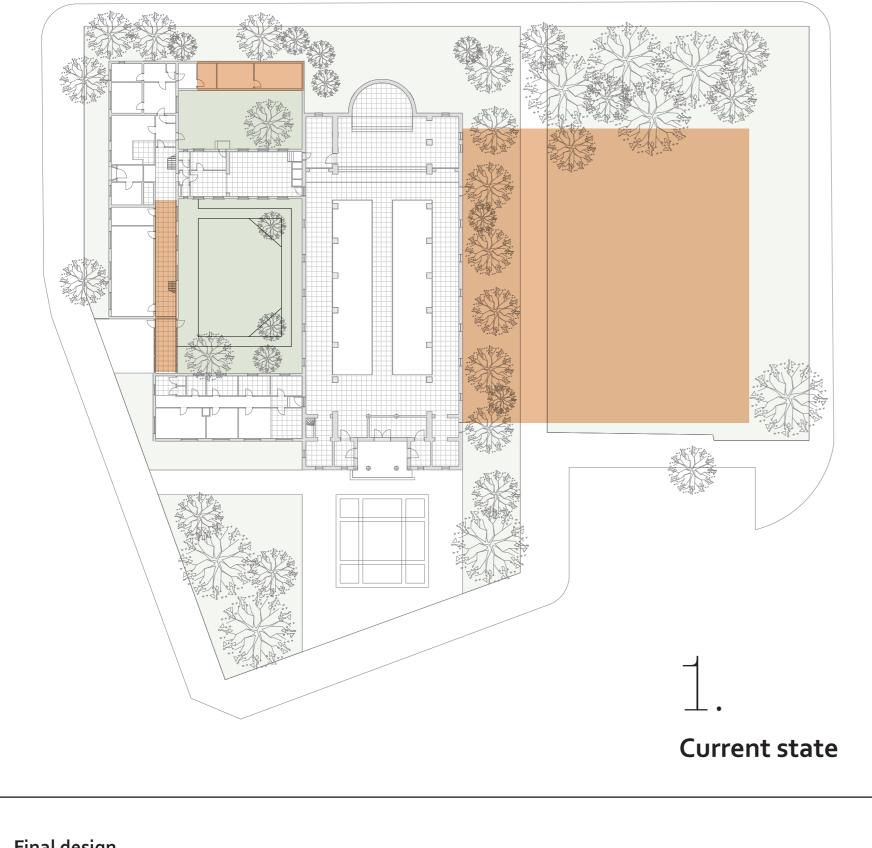
New direction

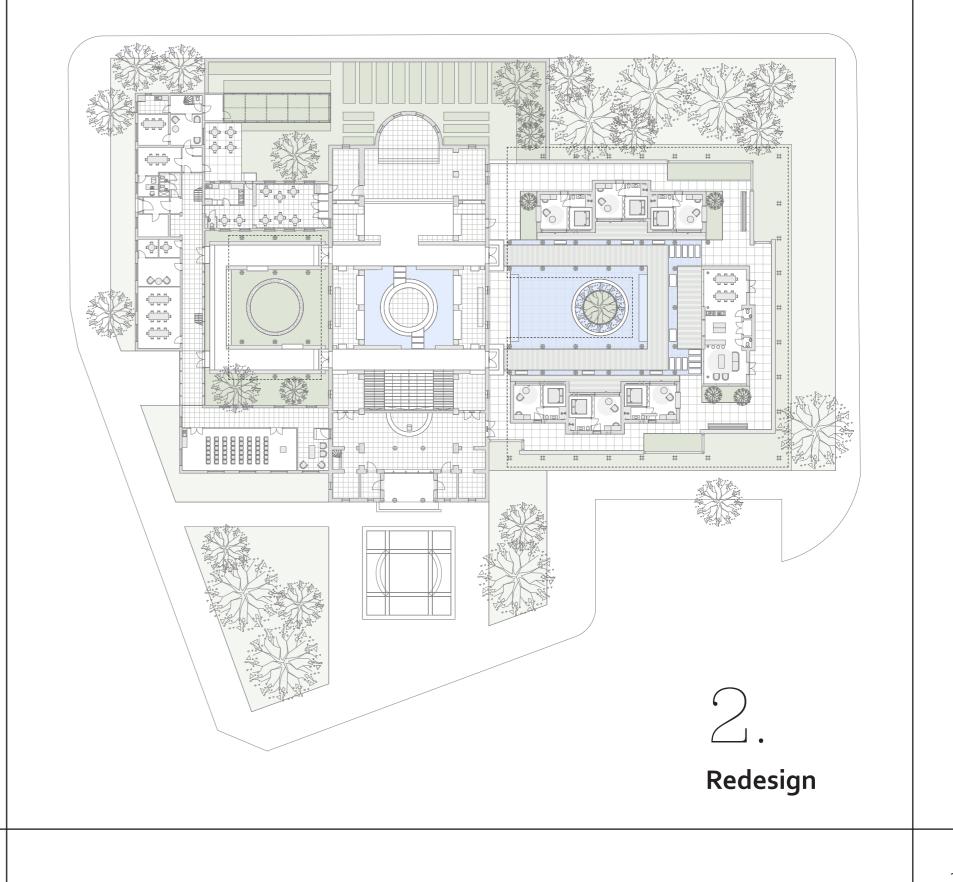
For the redesign a new direction is introduced that refers back to the more open structure of the early Roman basilica and represents the new spiritual orientated layer.

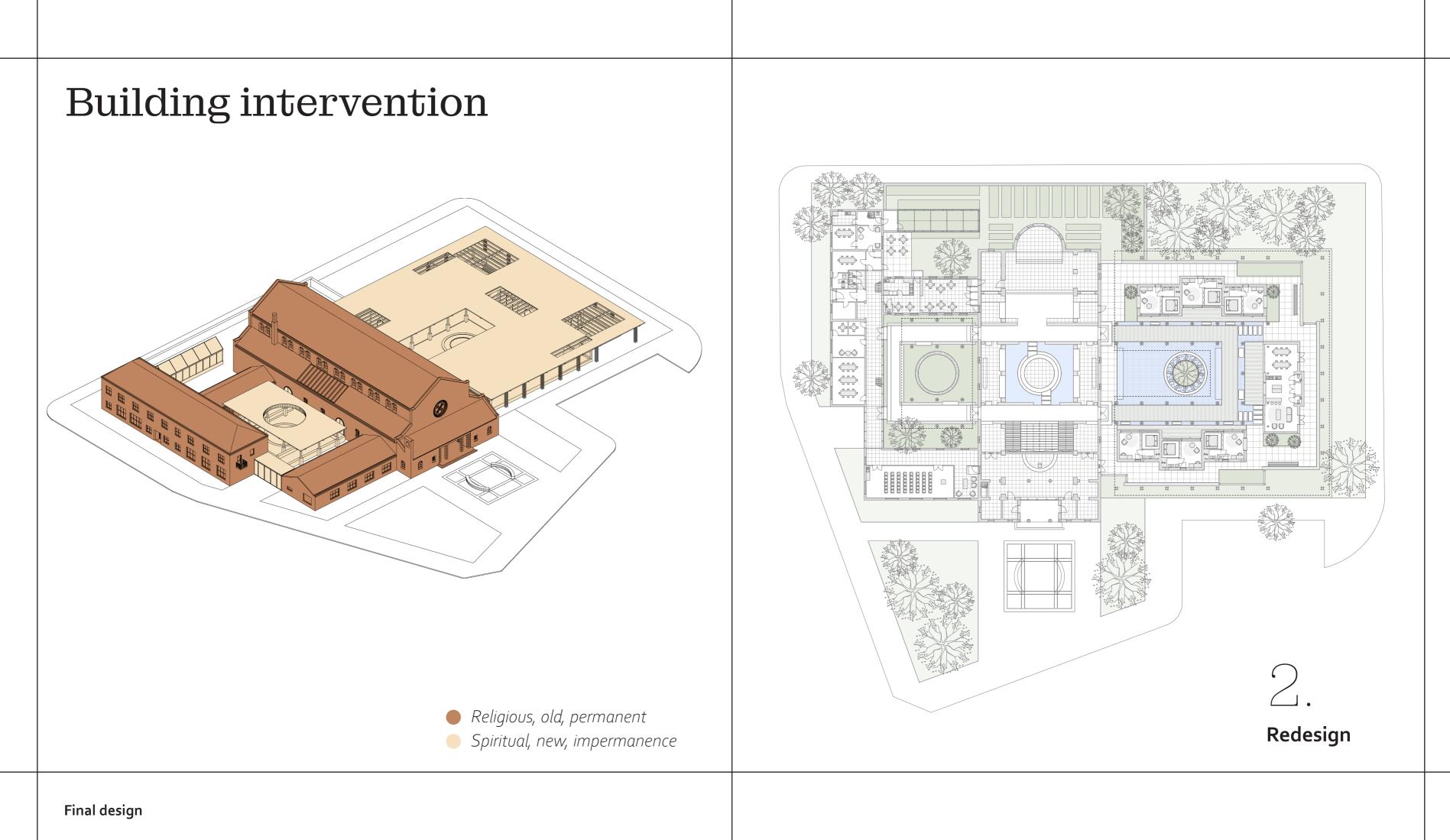
Building intervention

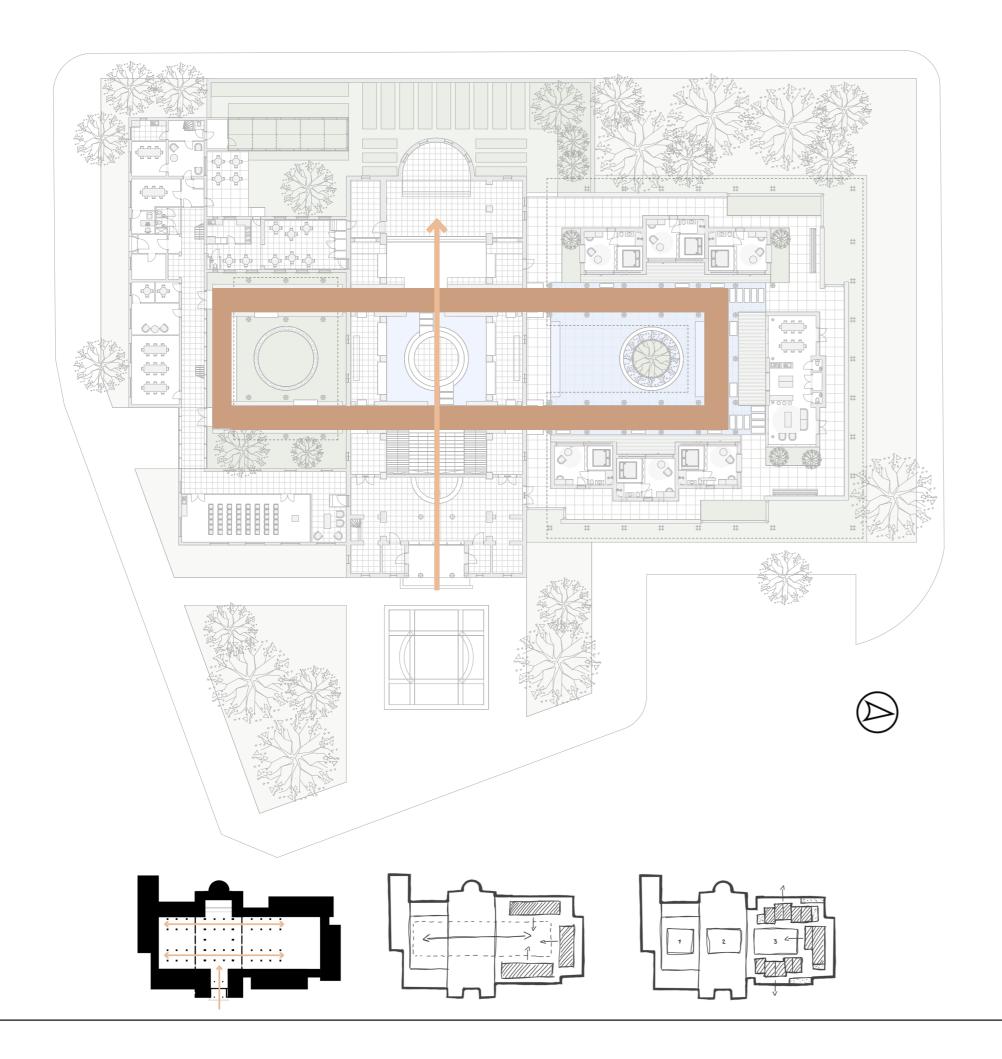


Building intervention







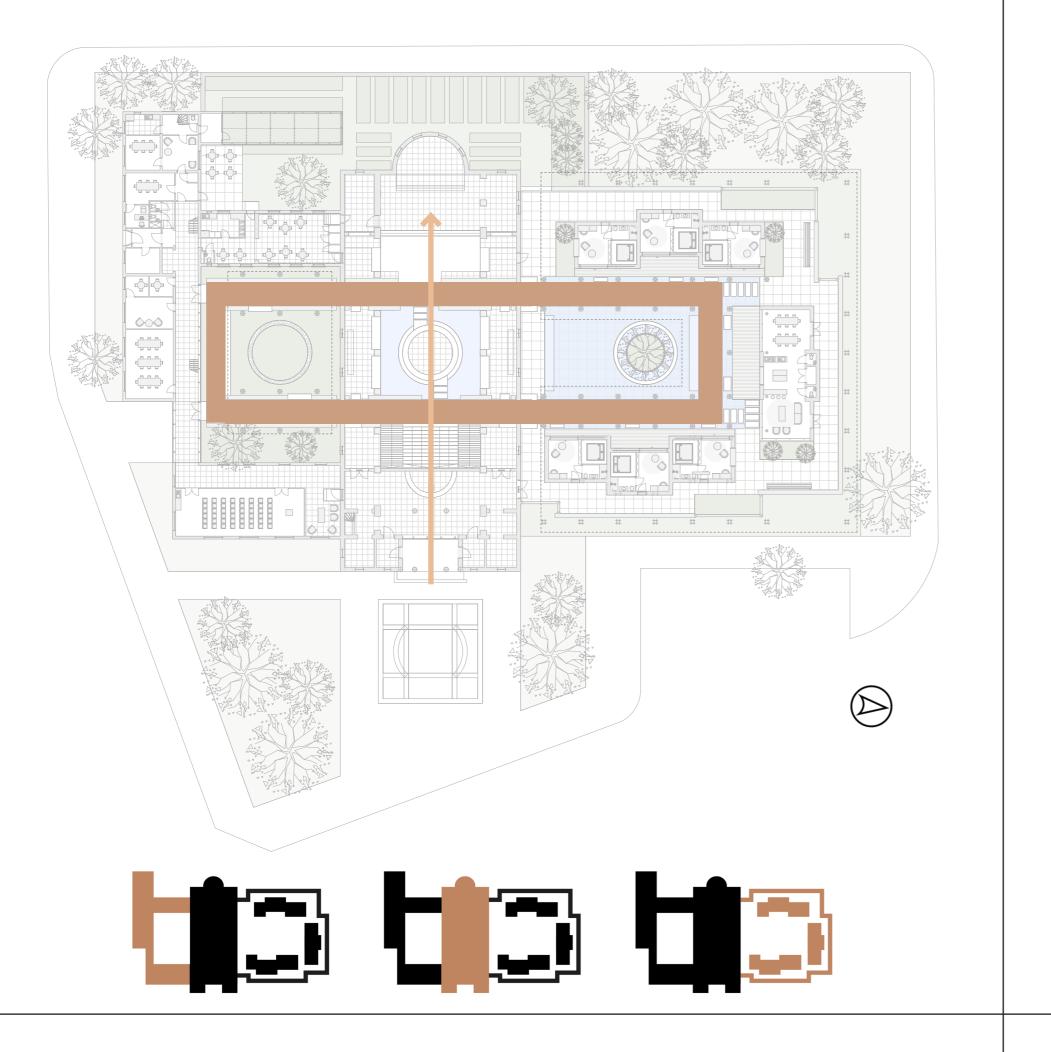


The new direction in the church structure becomes a circular routing that stands at right angles with the original routing.

Building intervention

Circular routing

The new circular routing connects the different areas and buildings on site.



Each of the three areas, that become visible in the structural layout, have their own character and are connected to bigger spiritual concepts.

Building intervention

Three areas



Materialisation







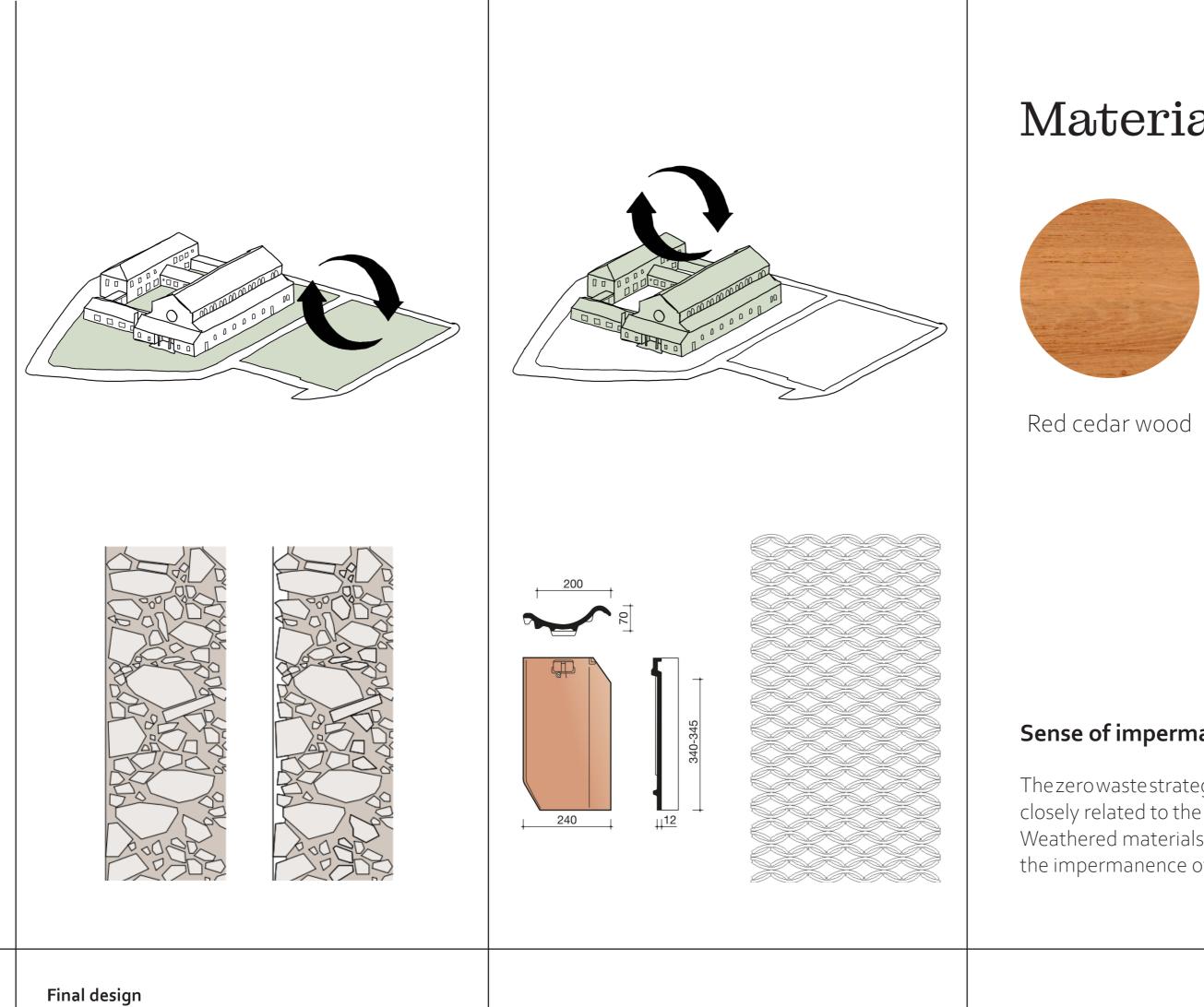
Reclaimed brick /roof tiles

Red cedar wood

Rammed earth

Sensual experience

These materials have their own characteristics and work together in the design to complement the imperfect and create a sensual experience.



Materialisation



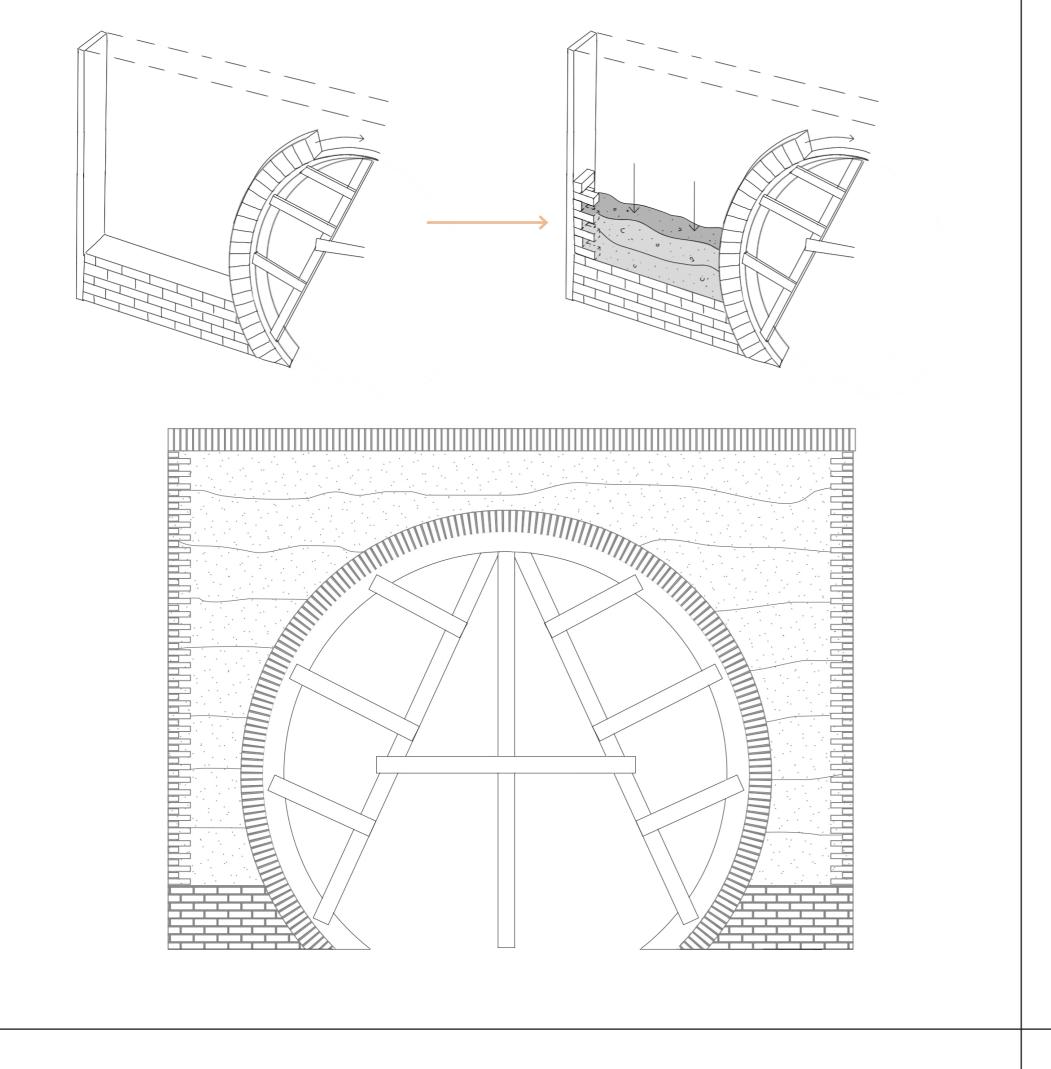


Reclaimed brick /roof tiles

Rammed earth

Sense of impermanence

The zero wastestrategy for this design is closely related to the spiritual concept. Weathered materials are used to show the impermanence of the structure.

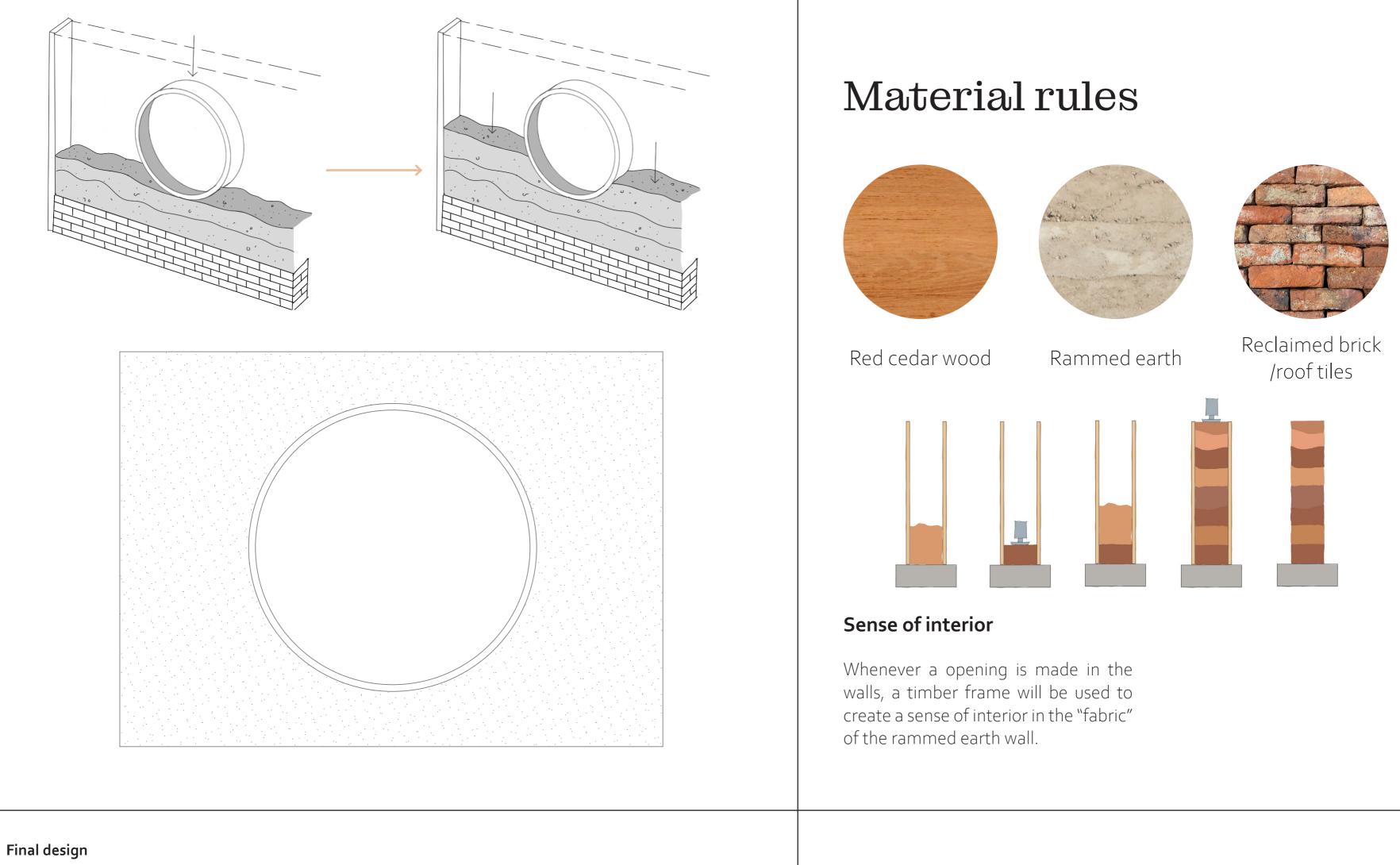


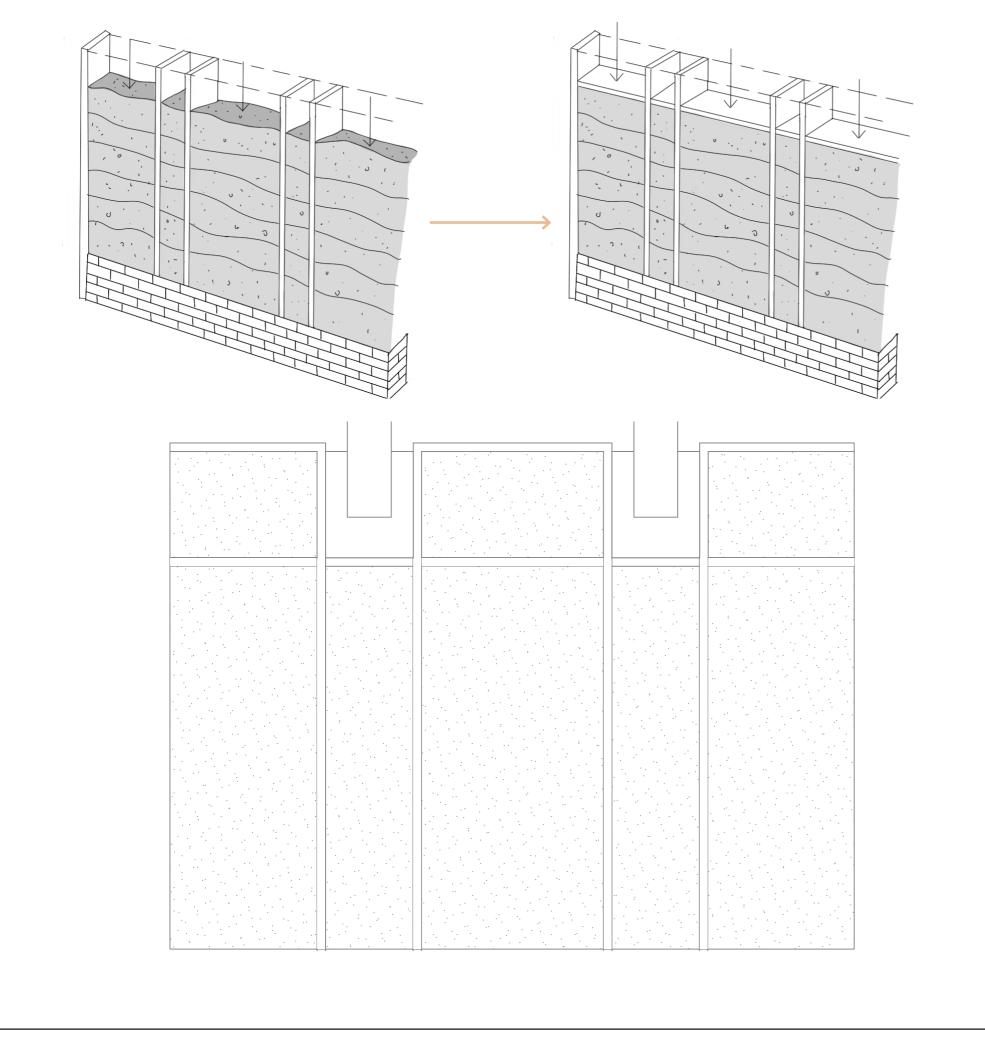
Material rules



Protective layer

All of the fragile edges of the rammed earth walls will be covered by the reclaimed bricks. They will offer protection and support.





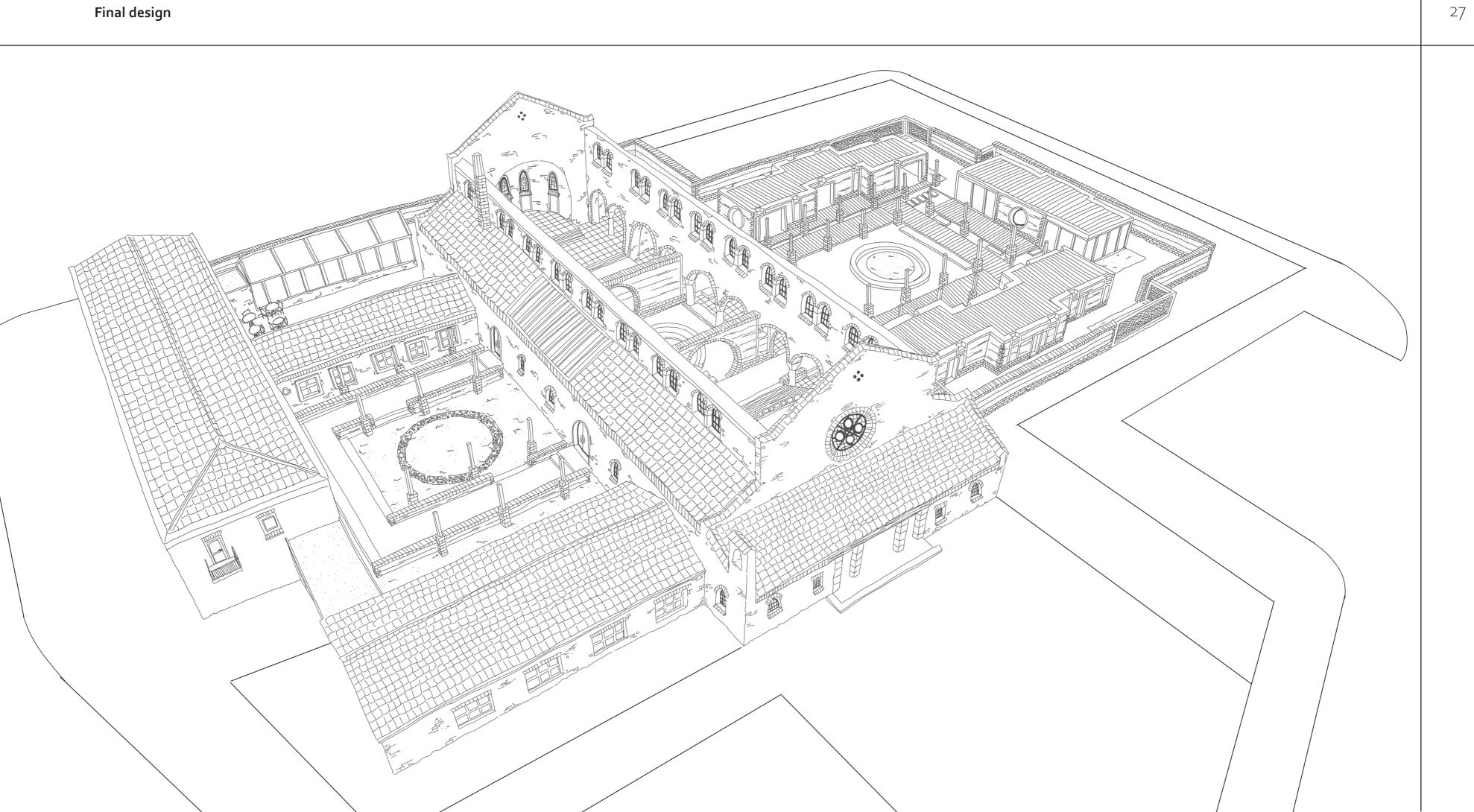
When the new structure meets the old, a timber frame prevents the two from touching. This way the new layer weaves through the old structure.

Final design

Material rules



Separation of elements





Spiritual Design Concepts

SUSTAINABILITY

To connect with the environment

HUMANITY

To connect with the social/cultural

SENSUALITY

To connect with the self





The Monastery

SUSTAINABILITY

To connect with the environment

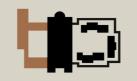
HUMANITY

To connect with the social/cultural

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The Monastery

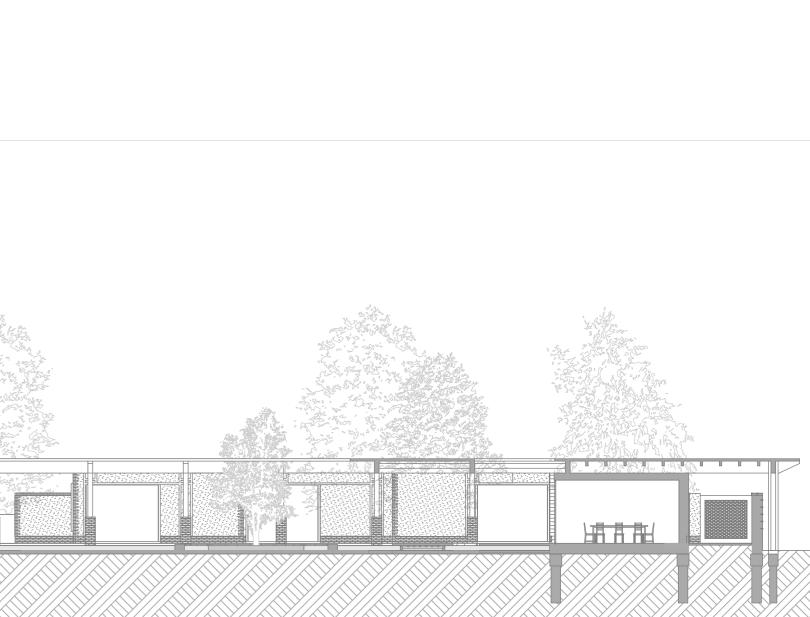
SUSTAINABILITY

To connect with the environment

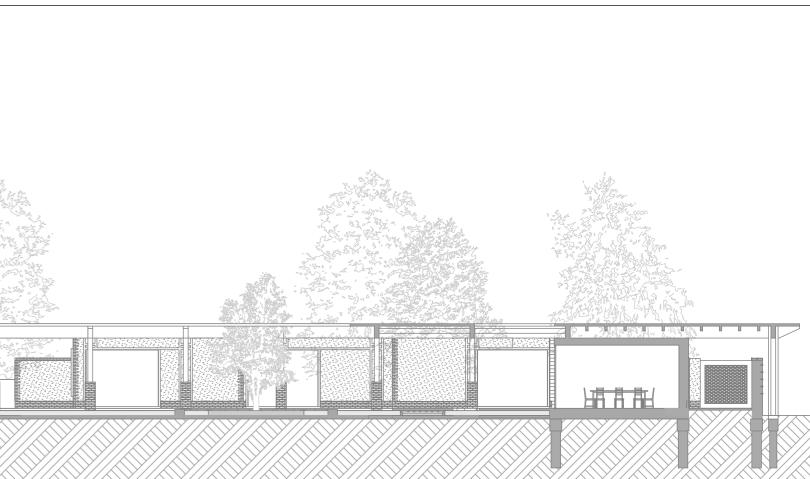
Final design
1. EXPLORING
2. Environment
3. LEARNING

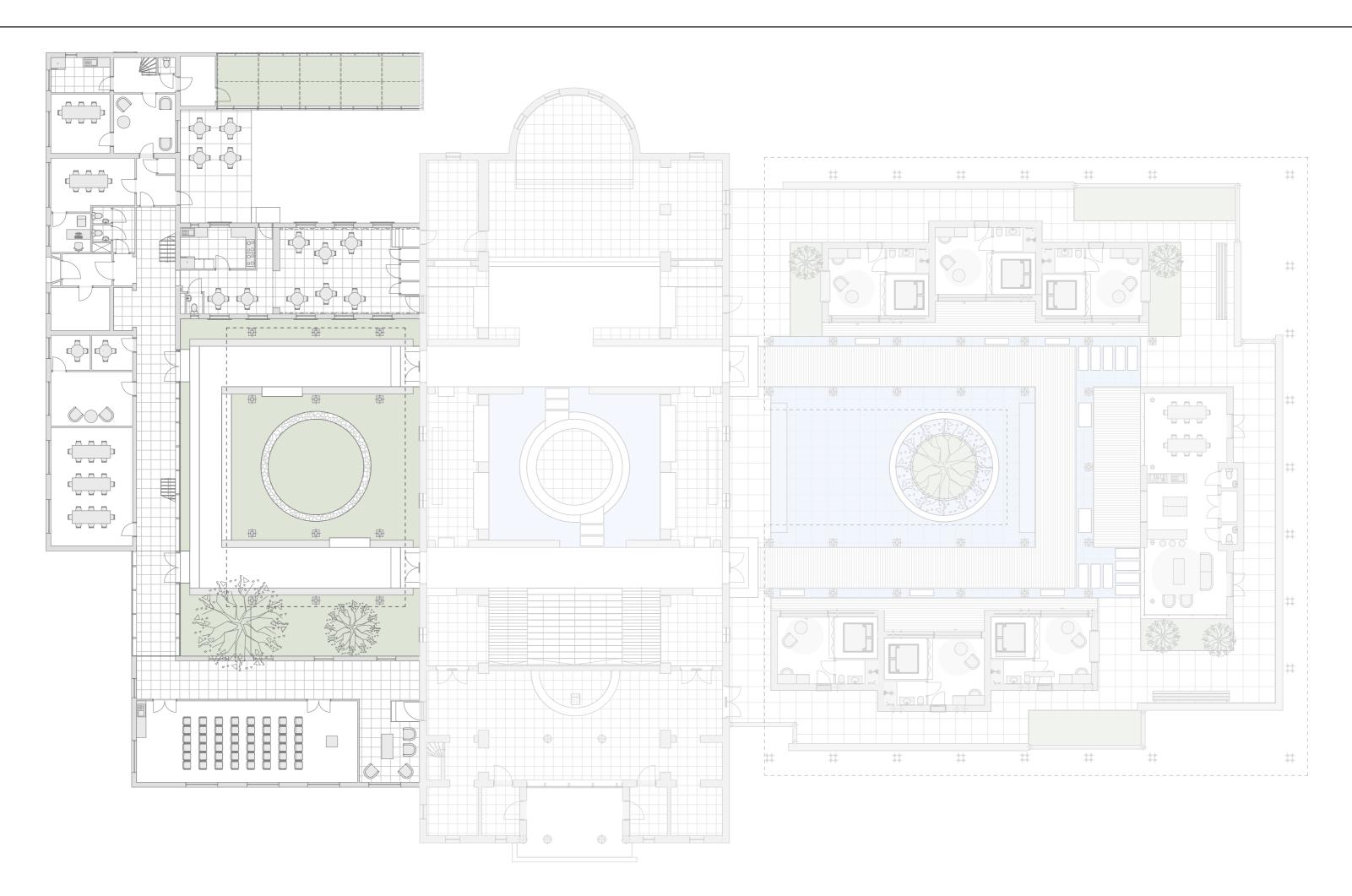


32	Final design
	1. EXPLORING
	2. Environment
	3. LEARNING

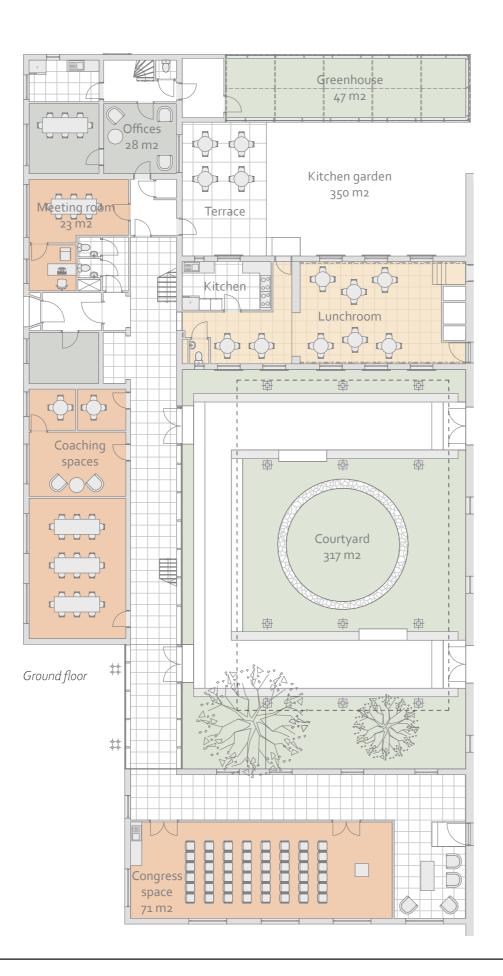


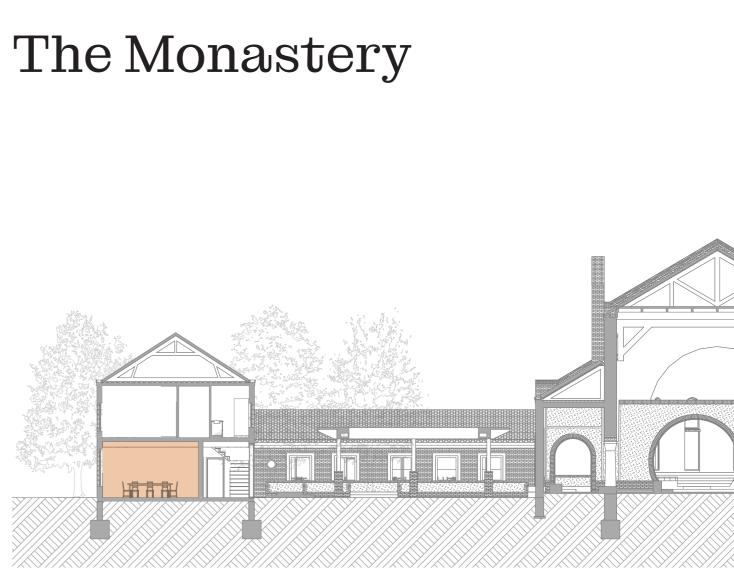
33	Final design
	1. EXPLORING
	2. Environment
	3. LEARNING





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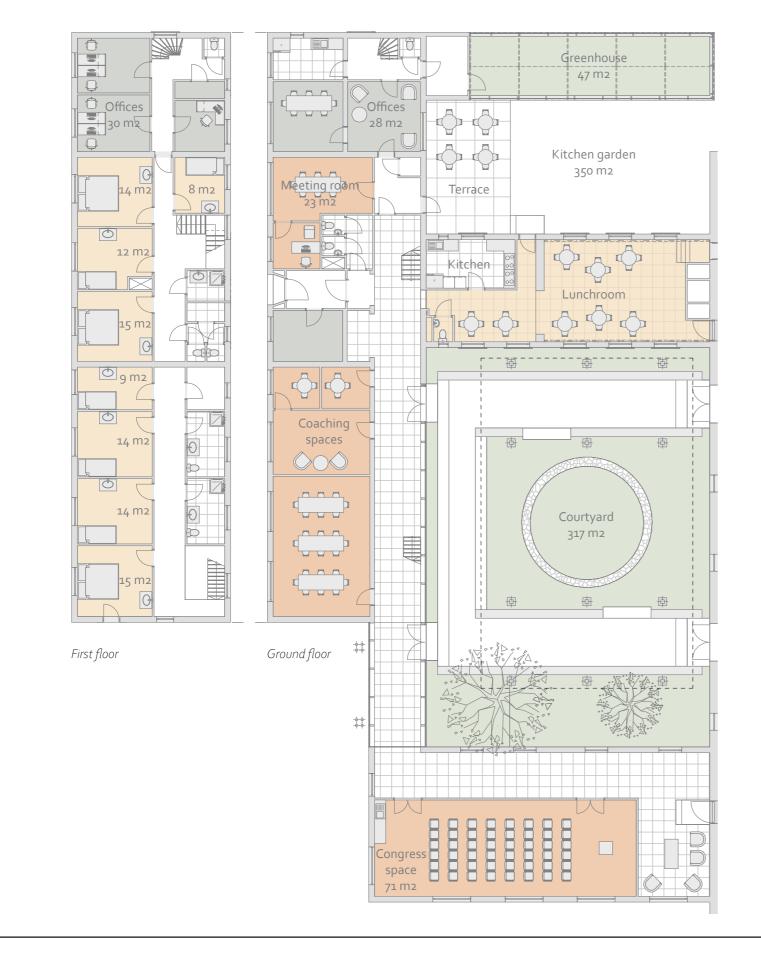




Ground floor

Functions

In this area visitors can attend coaching/ mindfulness classes and congresses and go to the lunchroom, courtyard garden and kitchen garden



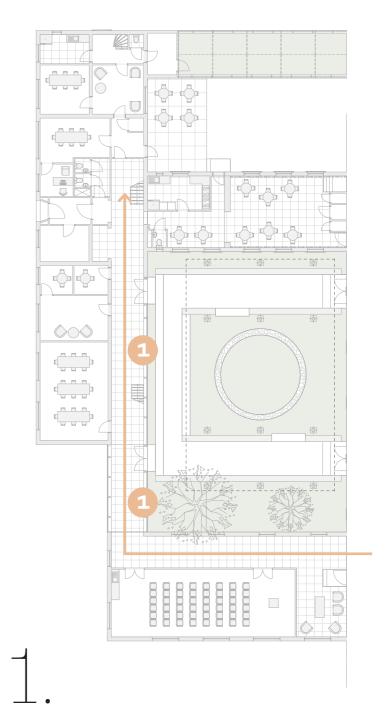




In this retreat area the visitors will stay in the old rooms of the monks. These rooms all share bathrooms and are situated on the first floor of the old

Monastery retreat

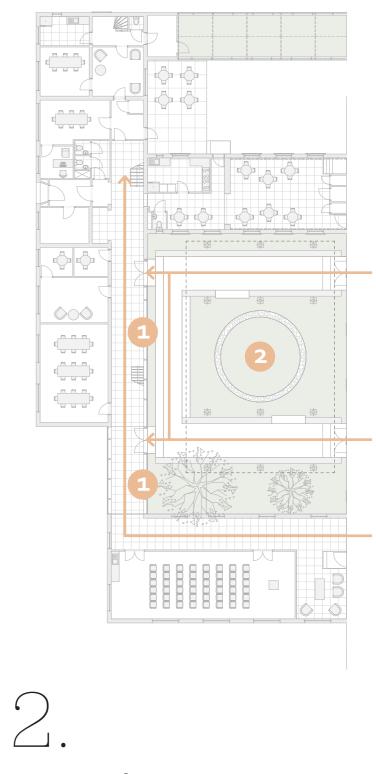




Glass passageway

The new glass passageway connects the surrounding monastery buildings with the courtyard where a large circular opening draws the attention of the visitors.





Courtyard

Light and rain fall through the circle into the centre courtyard and can evoke a sense of serenity.



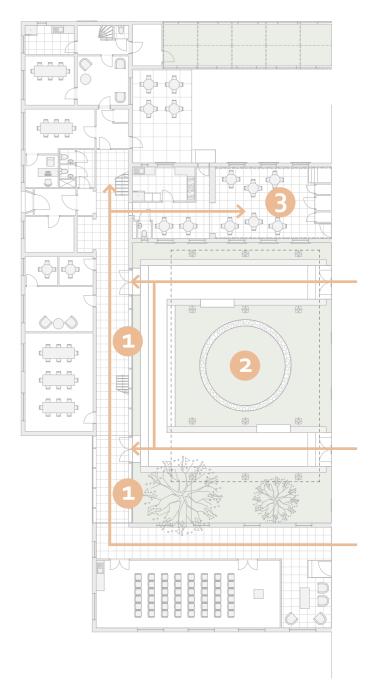
Courtyard

Framing the courtyard

In the courtyard, the rammed earth walls act as smaller balustrades that guide the users in a certain direction but also frame the green inside space.





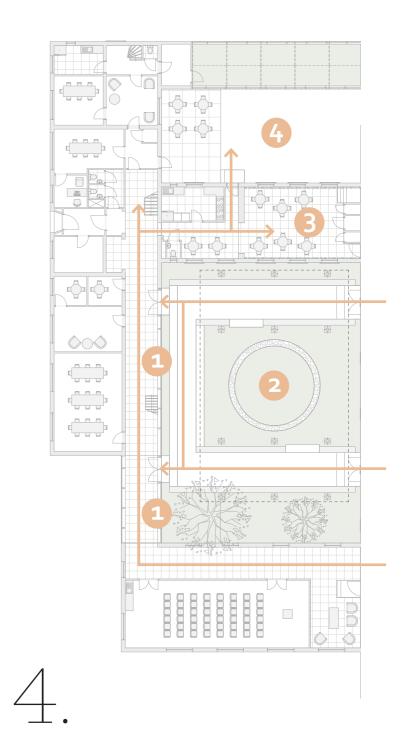


3.

Lunchroom

The lunchroom is located in the old sacristy. Visitors can share their meals here.

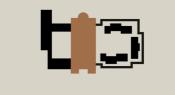




Kitchen garden

While residing in the retreat, visitors can work in the kitchen garden/greenhouse. This garden provides the vegetables and fruits that can be consumed in the lunchroom.





The Church

SUSTAINABILITY

To connect with the environment

HUMANITY

To connect with the social/cultural

SENSUALITY

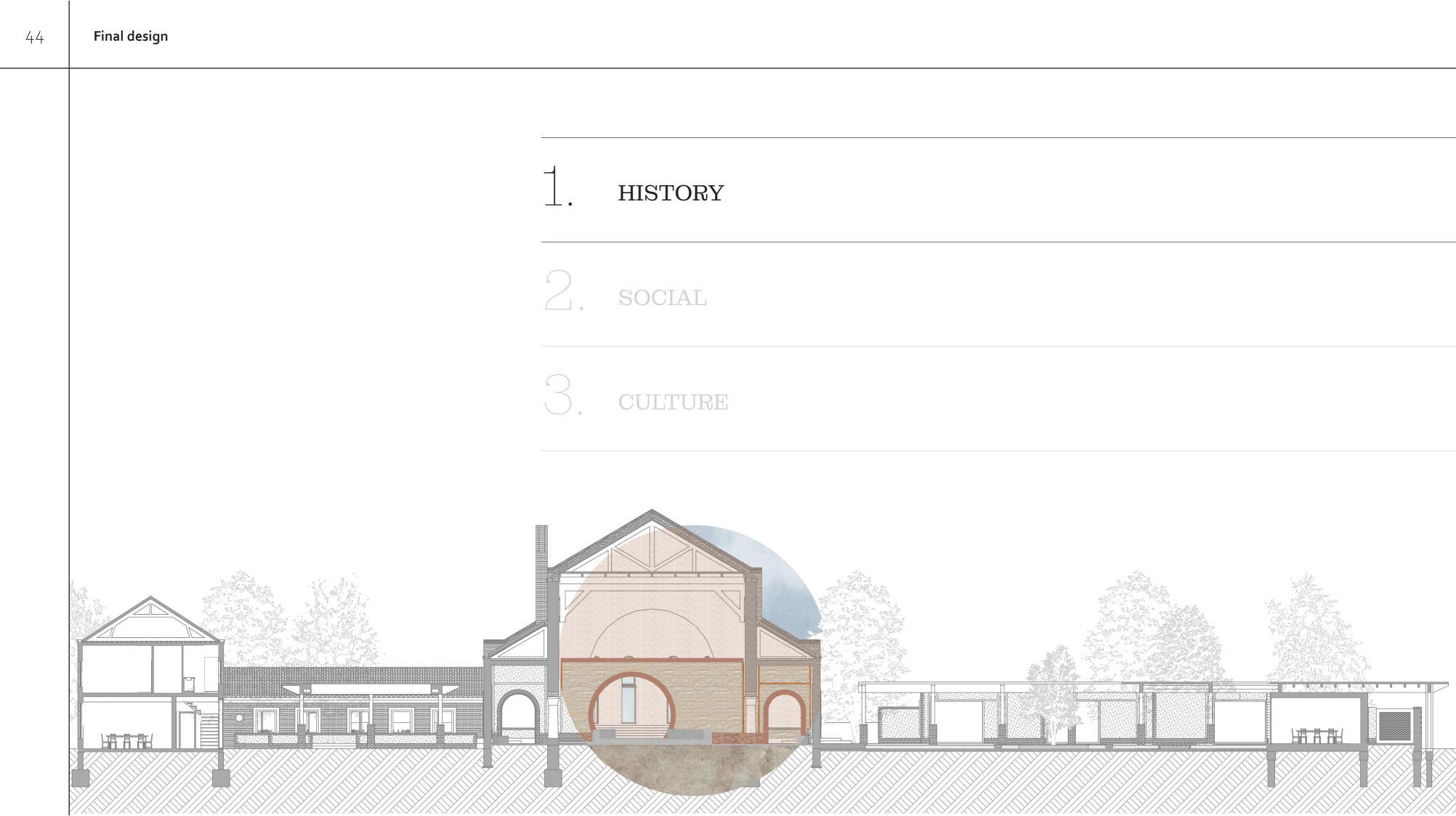
To connect with the self

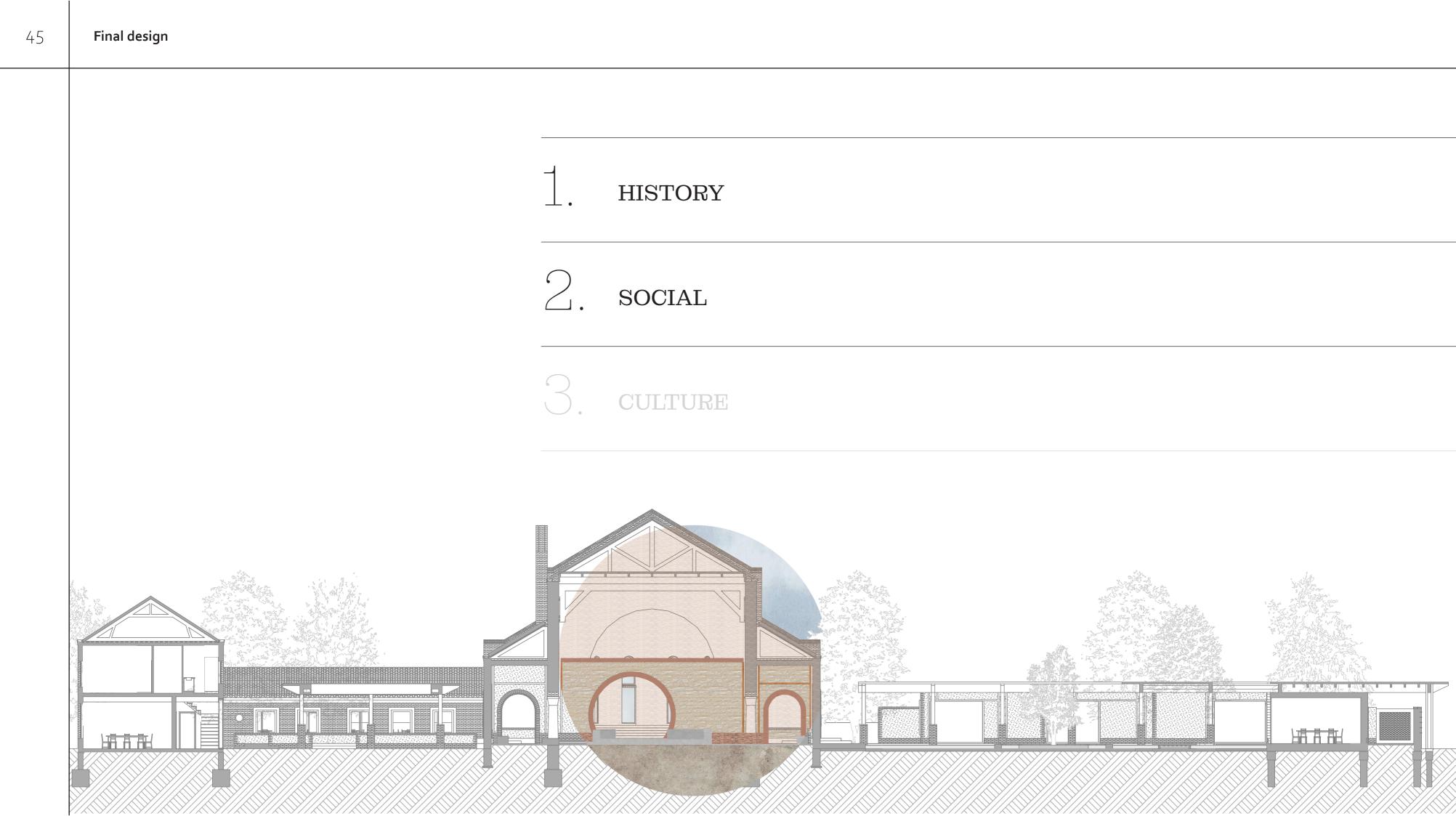


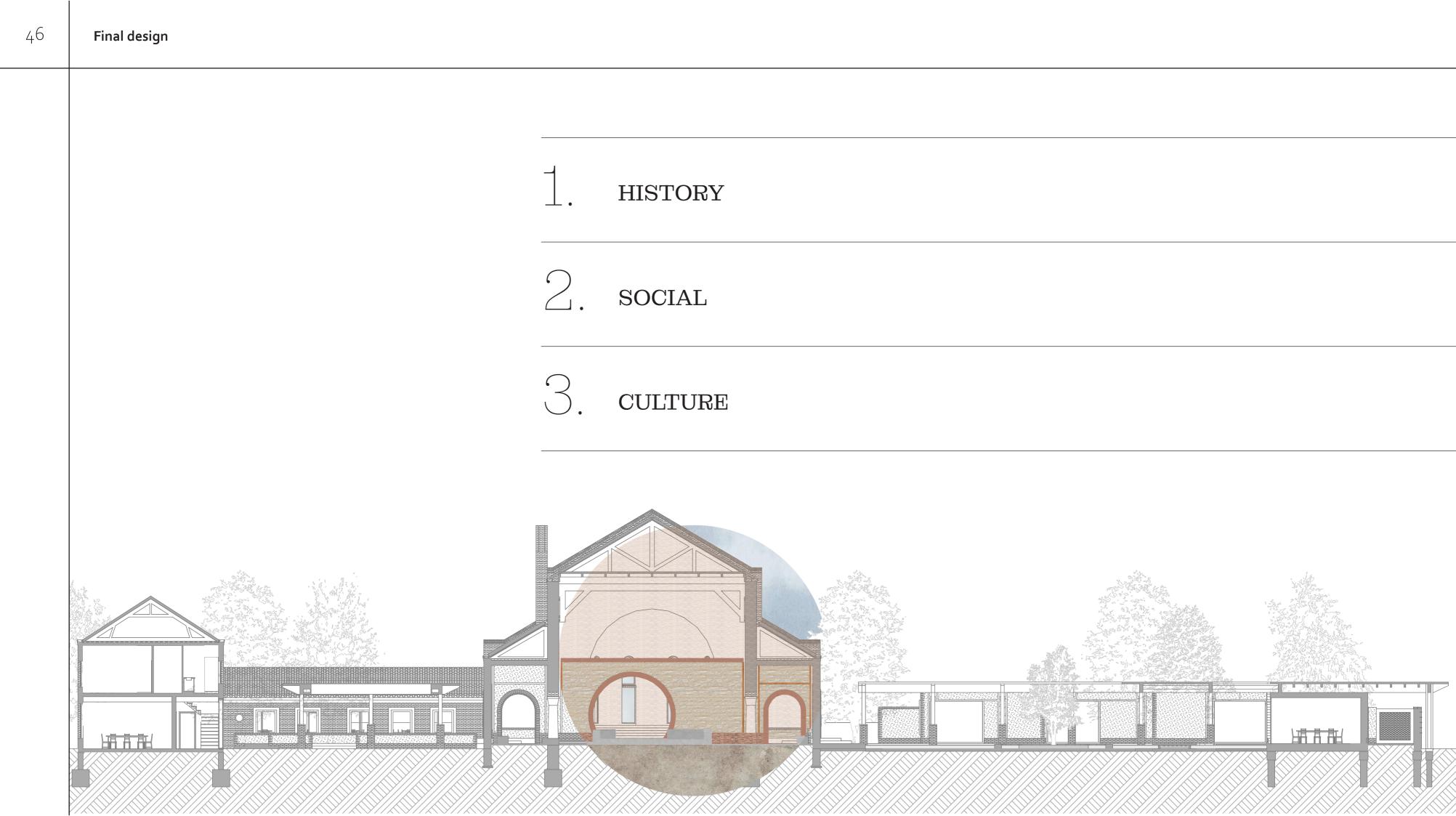
L The Church

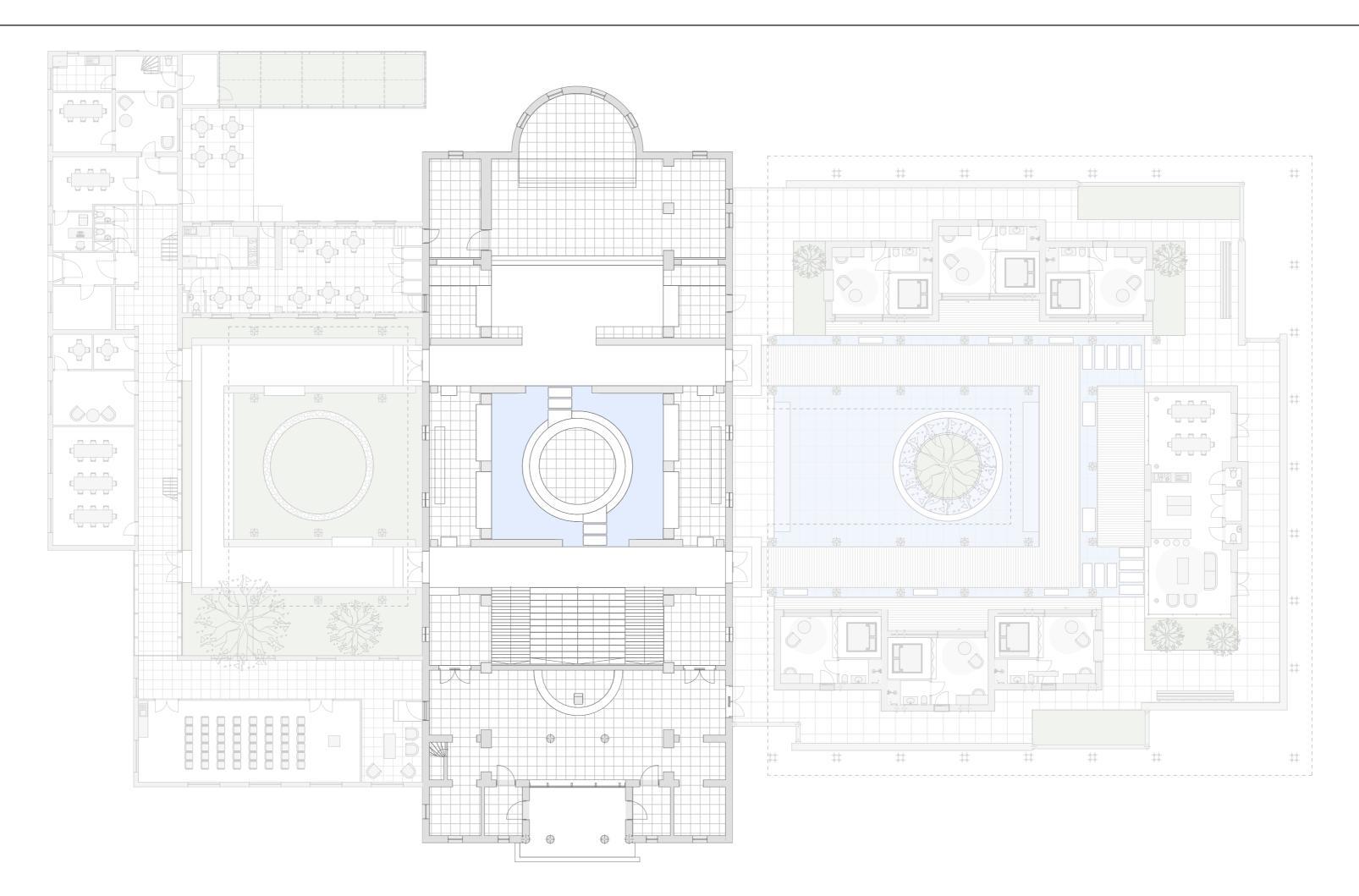
HUMANITY

To connect with the social/cultural

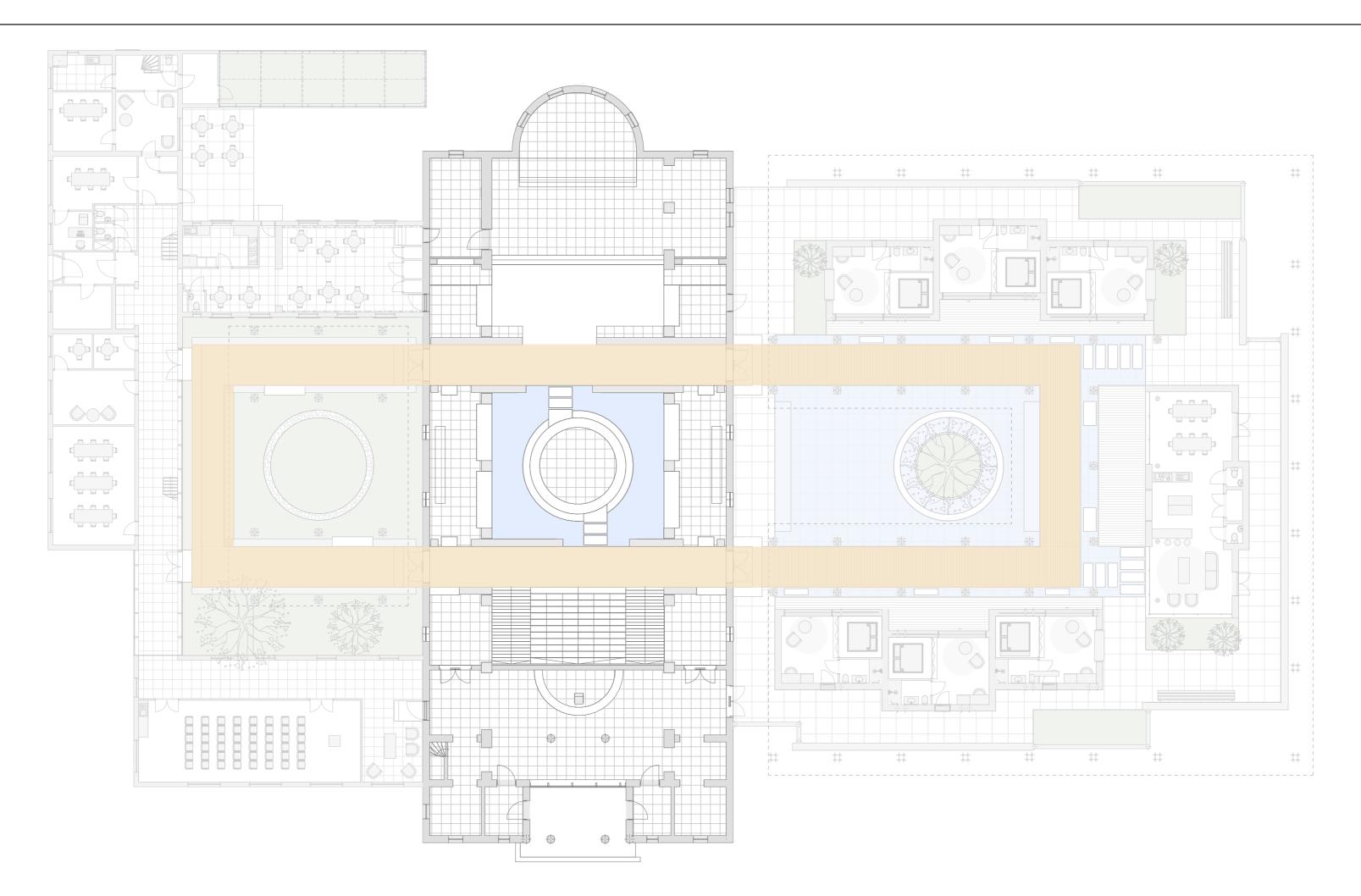






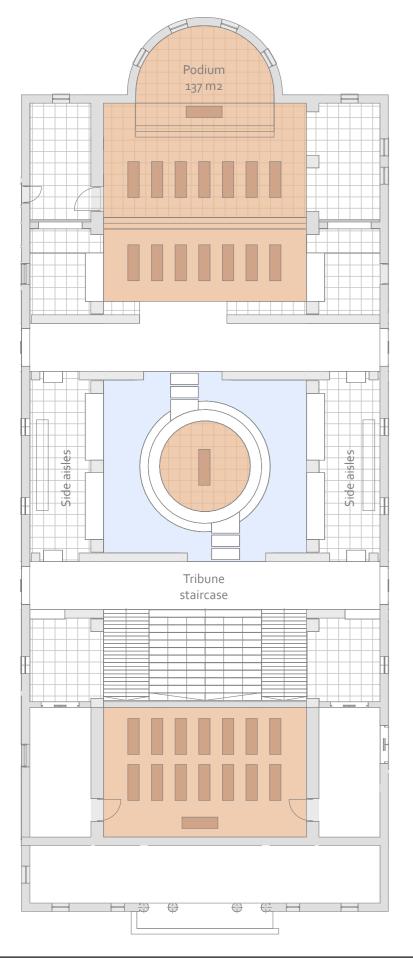


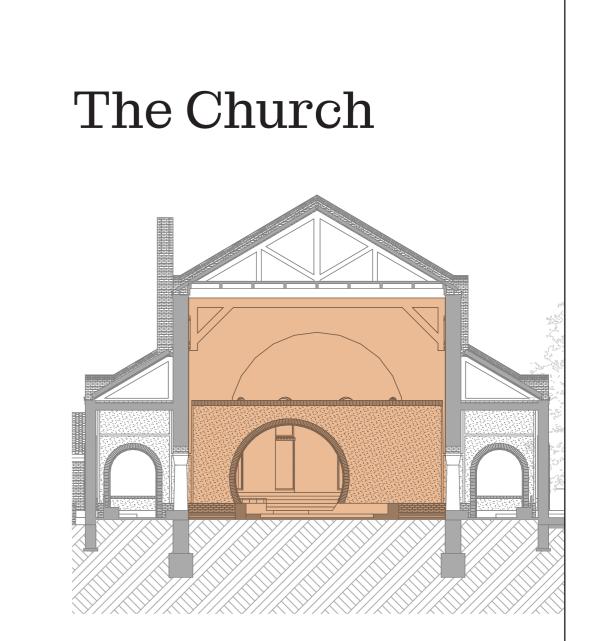
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Meditation & yoga

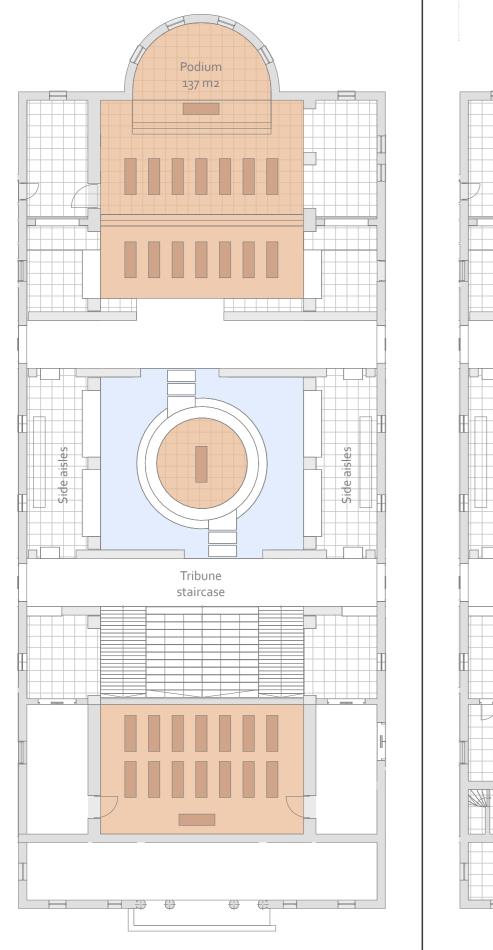


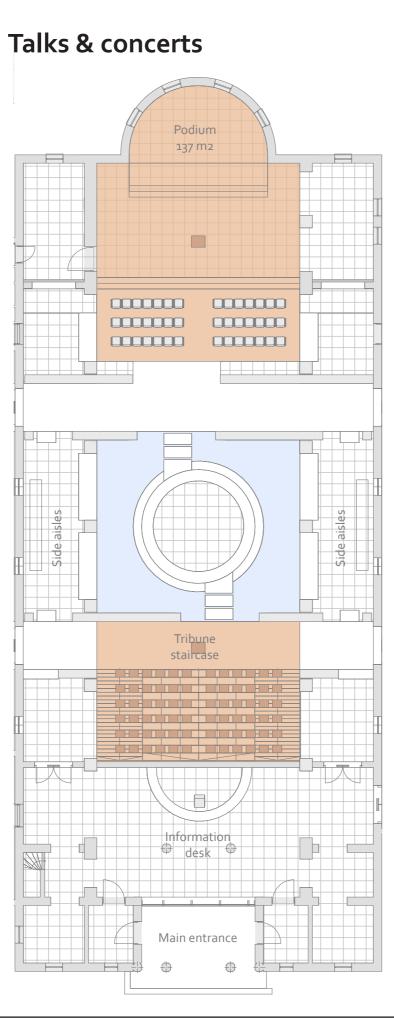


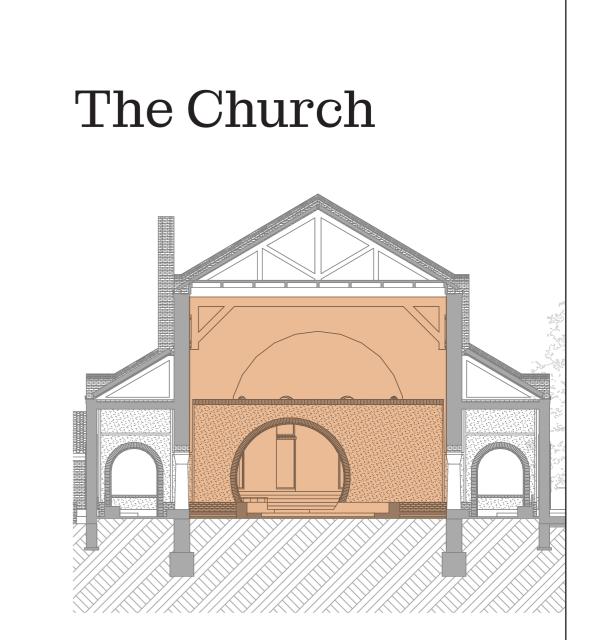
Meditation & yoga

The church becomes a multifunctional space that can be closed off if necessary. If no activities occur, this space can be used for personal contemplation or meditation.





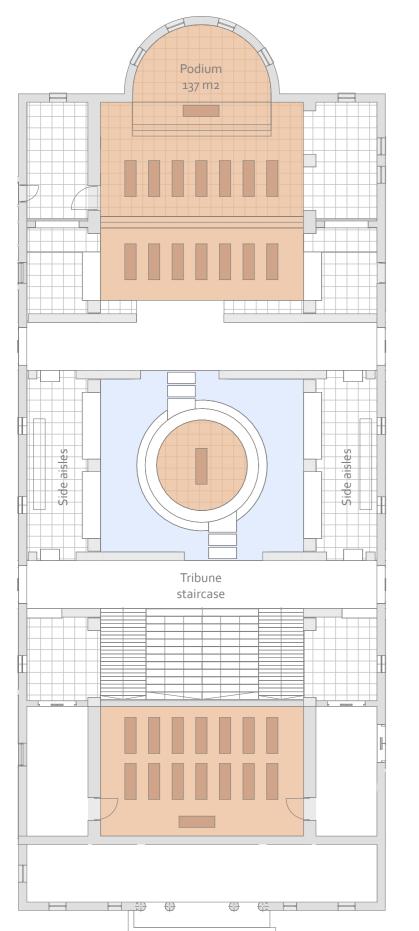




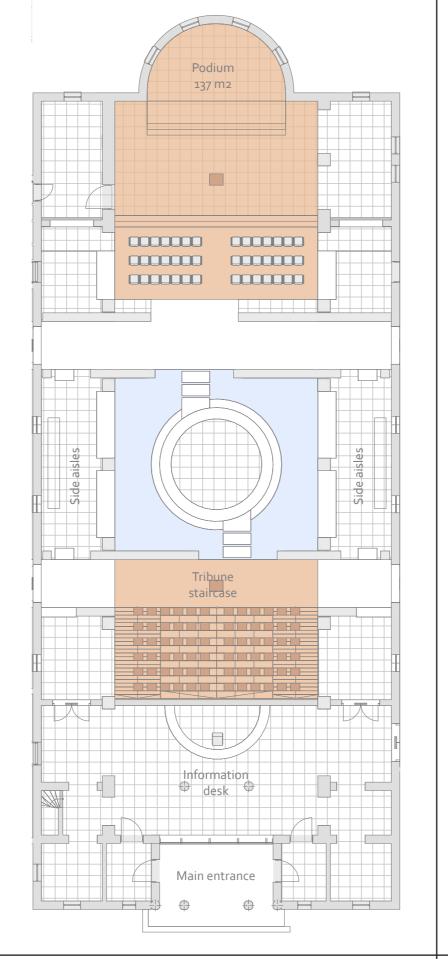
Talks & concerts

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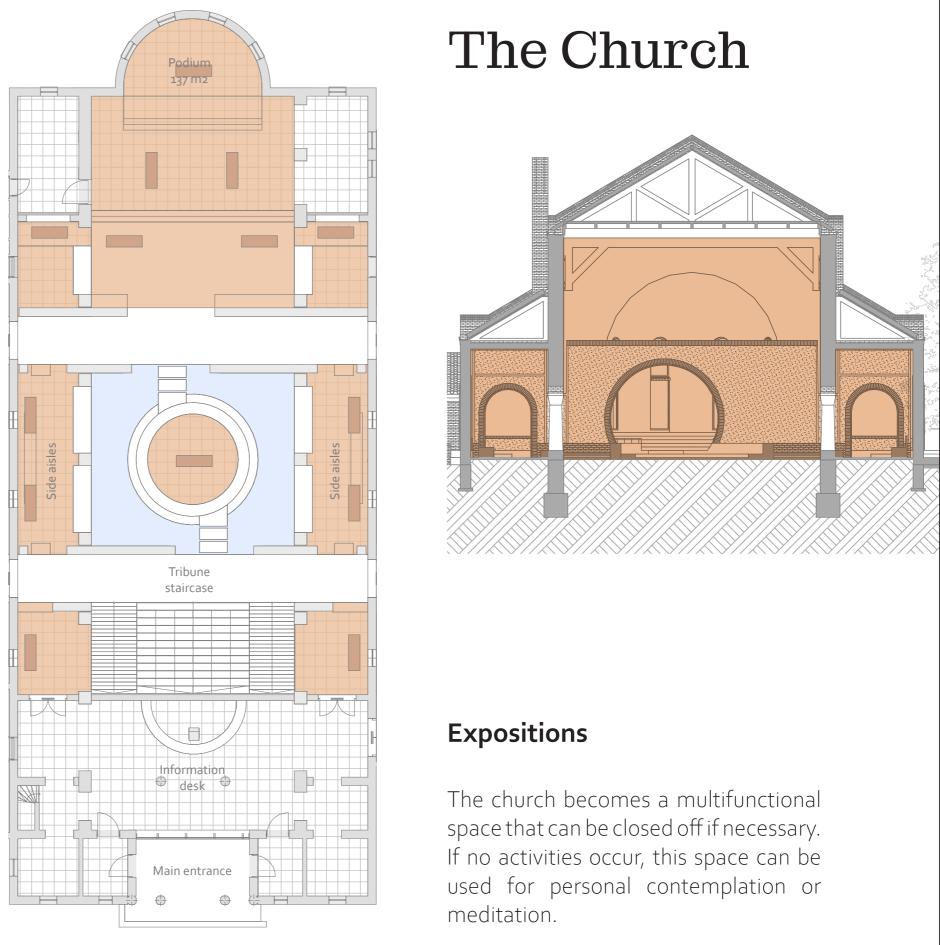
Meditation & yoga



Talks & concerts

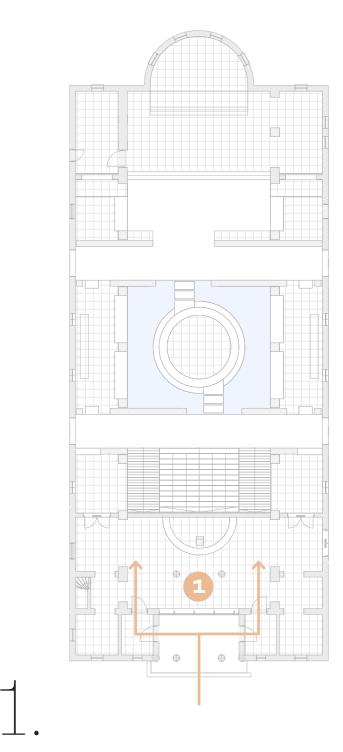


Expositions



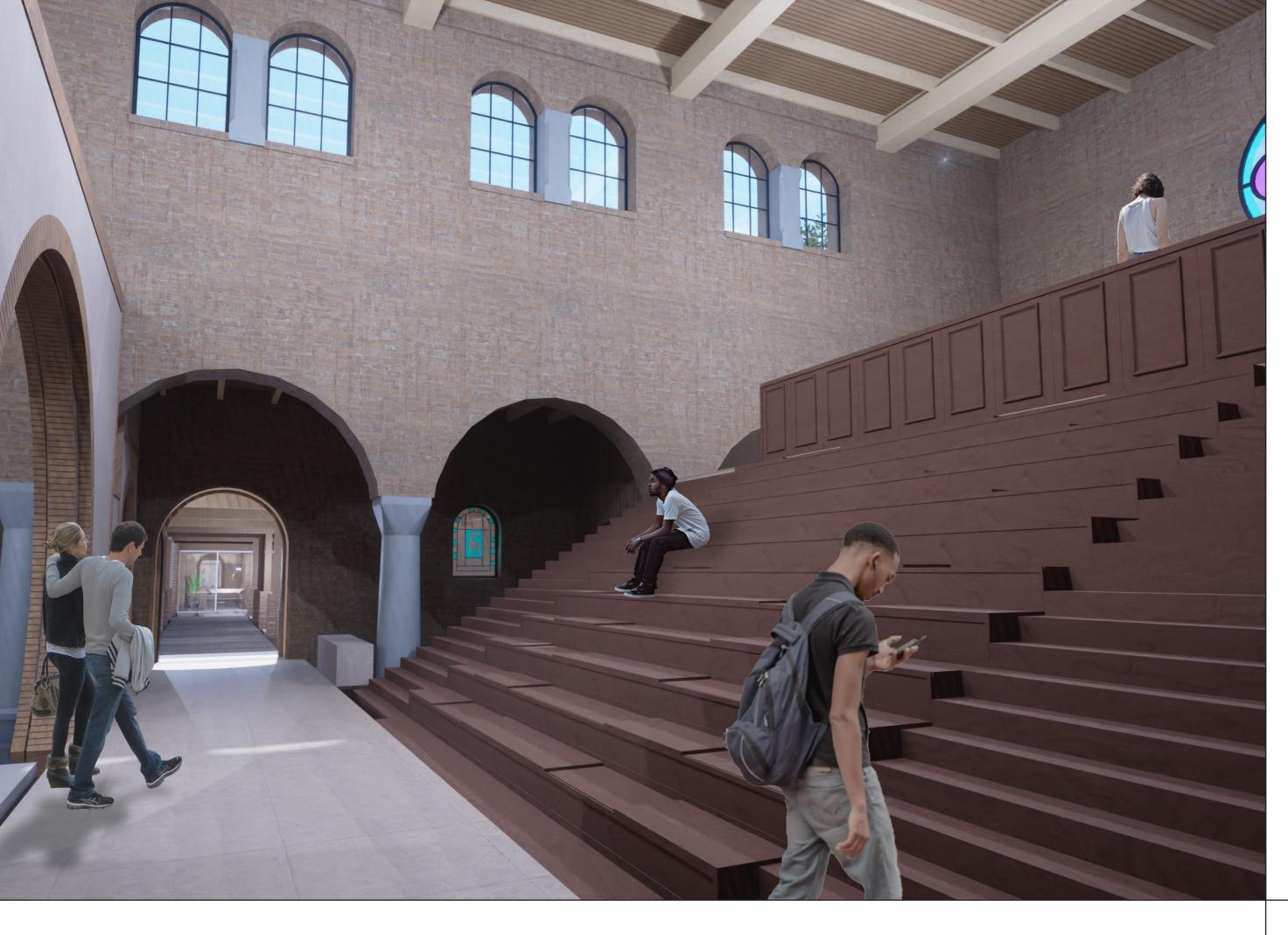
Final design

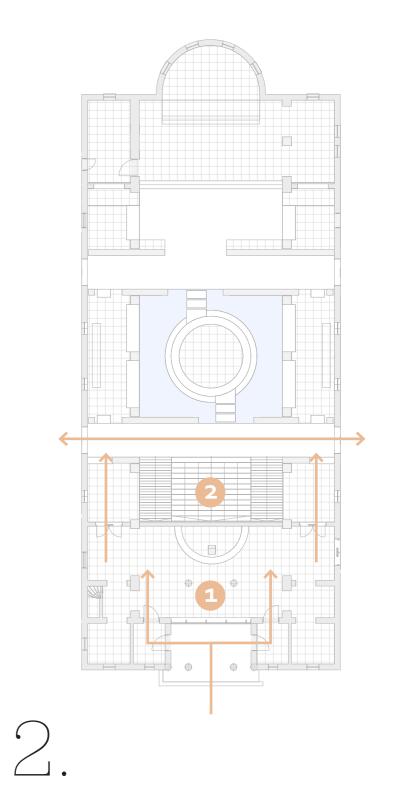




Main entrance

All visitors enter through the main entrance. This place is the gateway towards the spiritual. The visitor leaves the outside world behind.

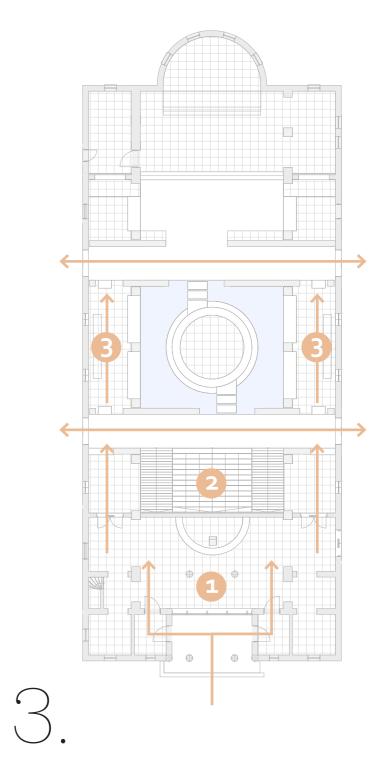




Tribune staircase

The staircase made from the old church benches will function as seating and as a way to reach the upper platform.

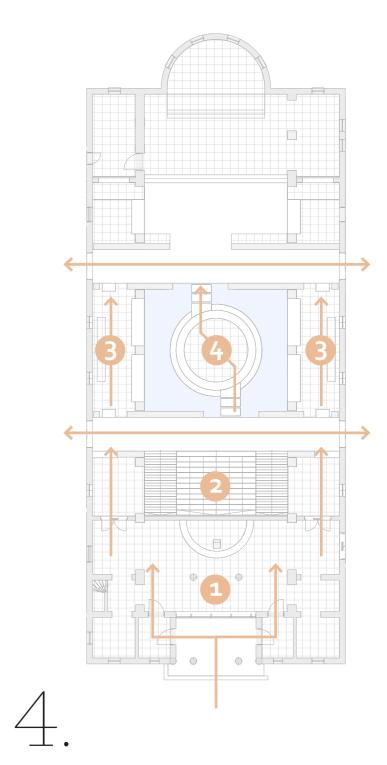




Side aisles

The side aisles are a secondary routing that looks towards the inner, most spiritual space of the church. A skylight was added that allows more light to enter the centre of the church.





Centre of the church

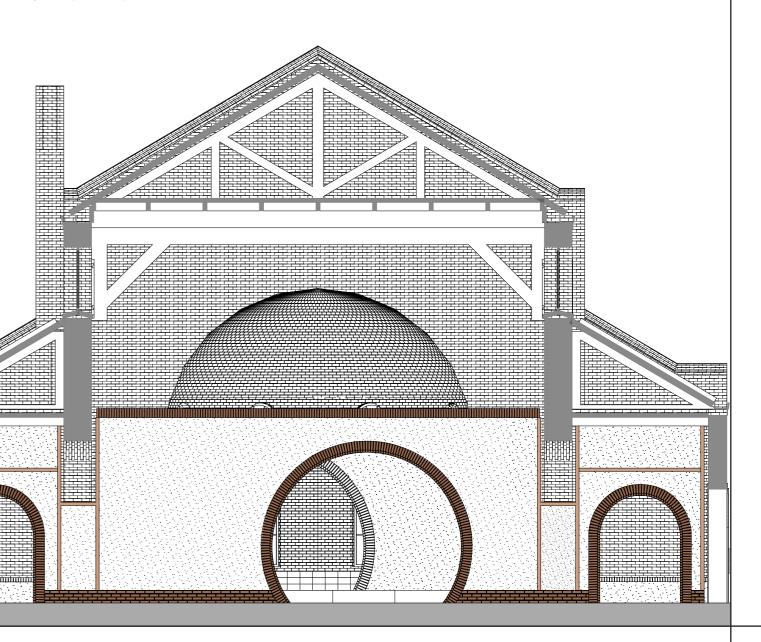
Instead of the apse where god would be worshipped from a distance, this now becomes the most sacred space where the individual is placed in its centre.



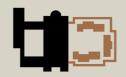
Church walls

Scale

The walls inside the church are the highest and are there to bring back the human scale into the church, without sacrificing the spatial qualities of the large open space.







The Circular Retreat

SUSTAINABILITY

To connect with the environment

HUMANITY

To connect with the social/cultural

SENSUALITY

To connect with the self

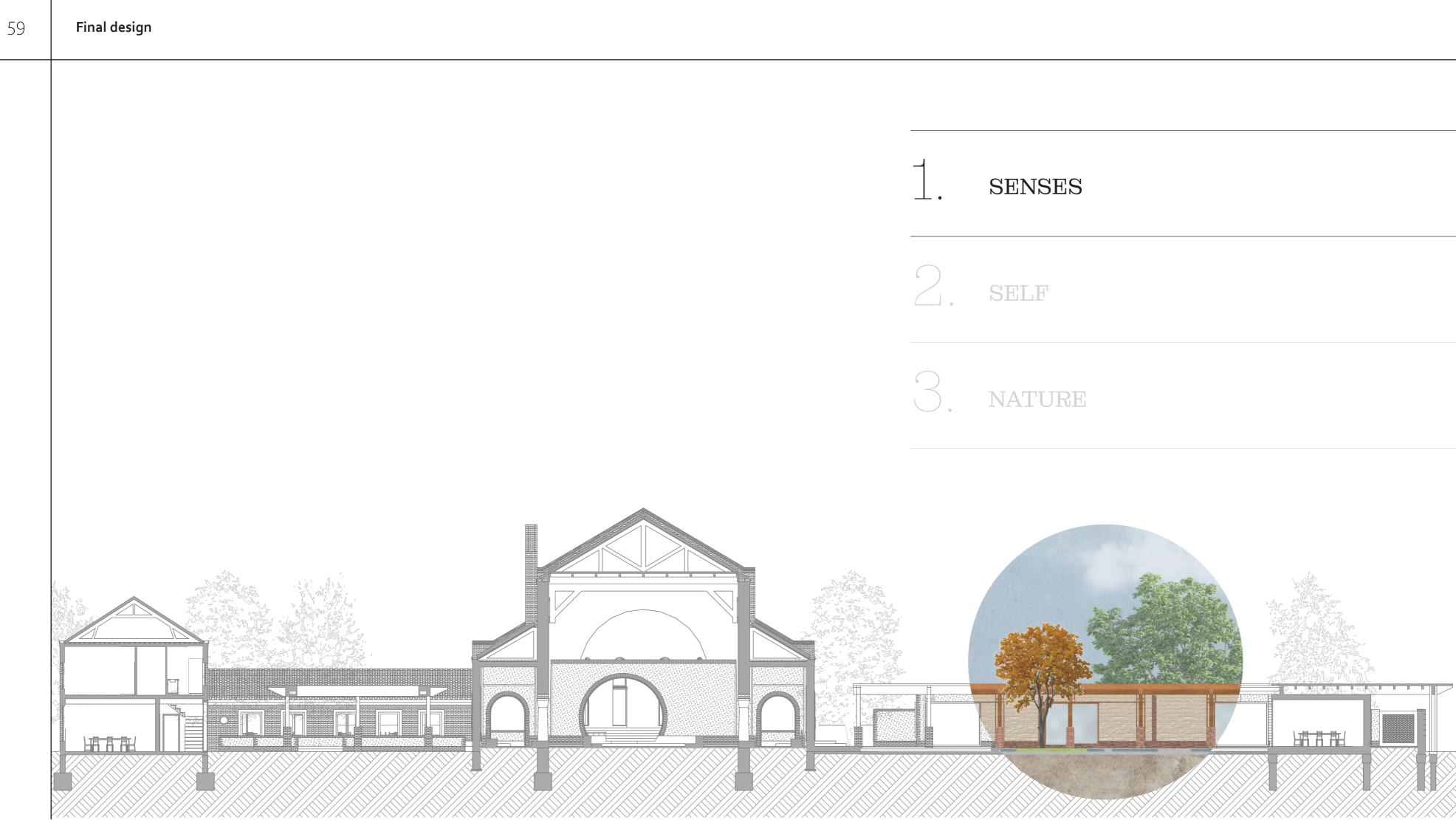


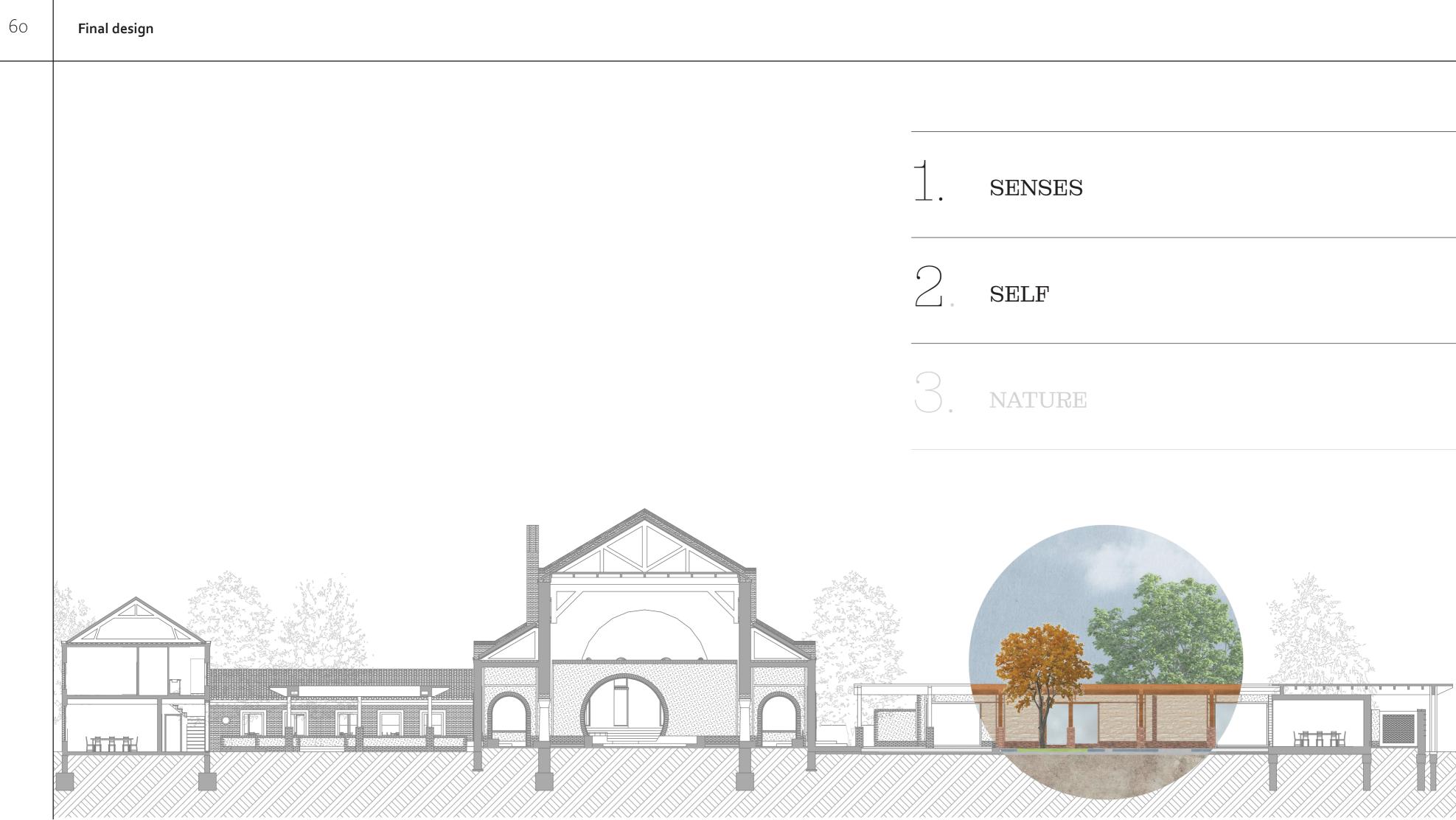


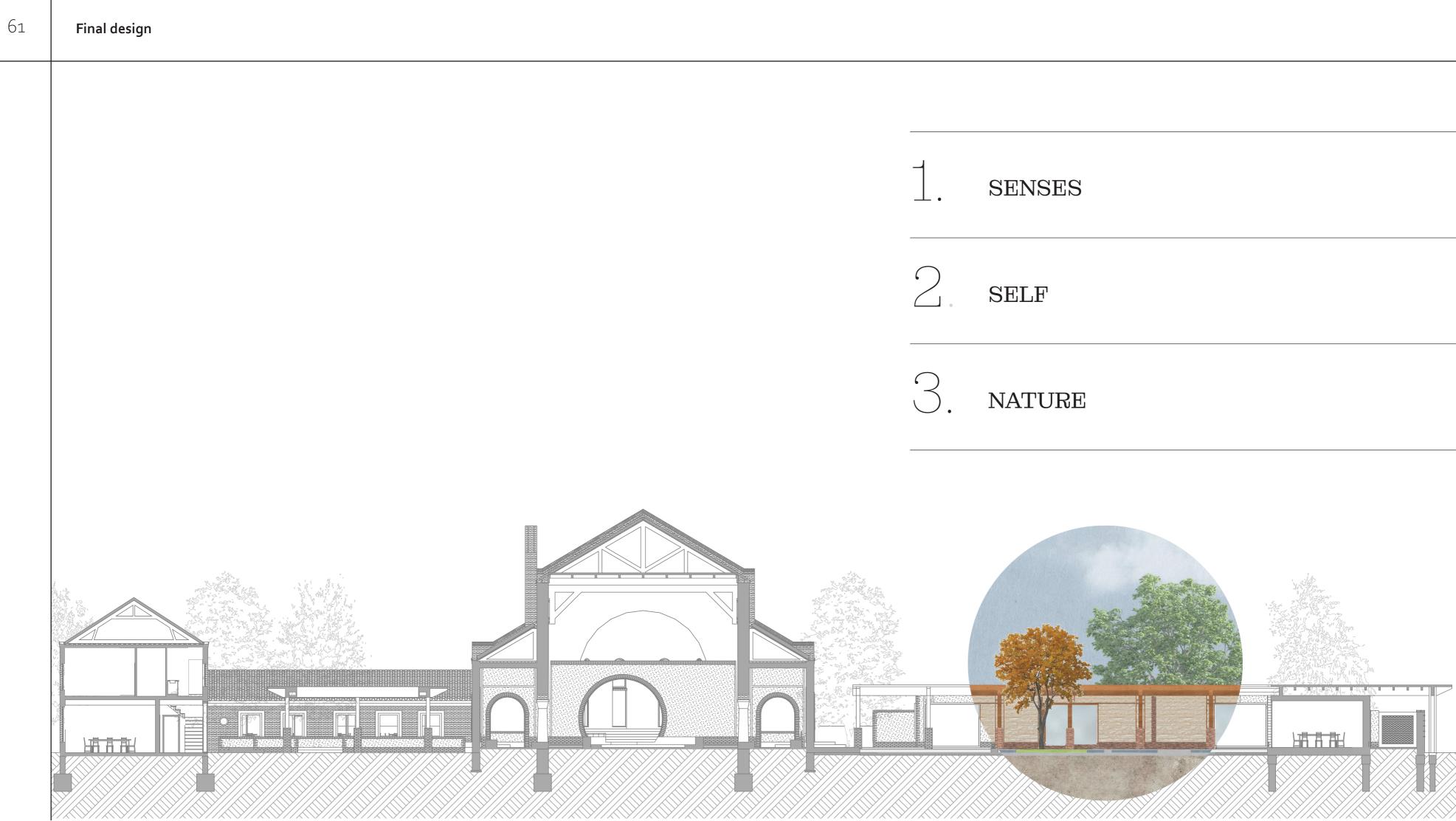
The Circular Retreat

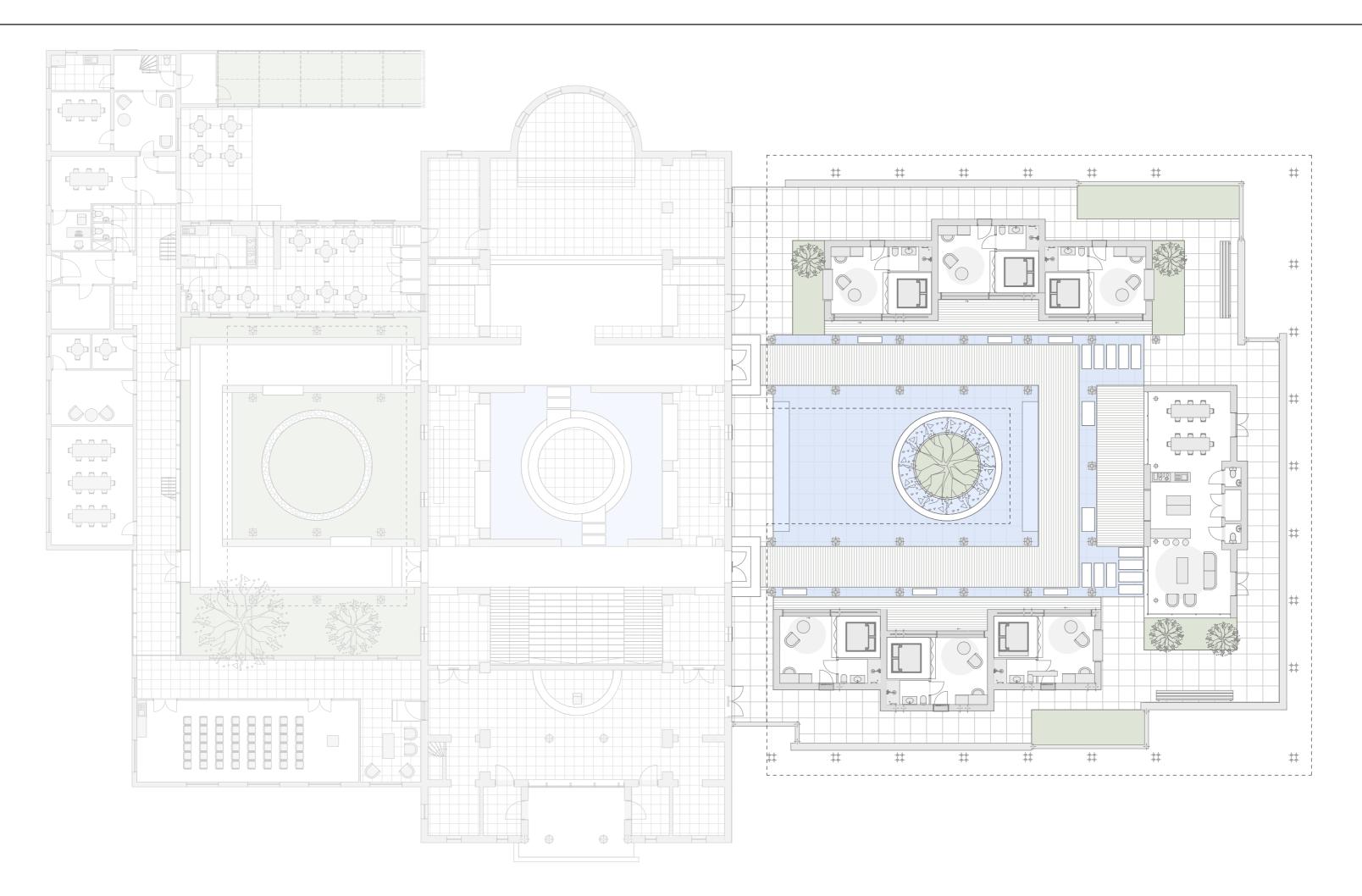
SENSUALITY

To connect with the self

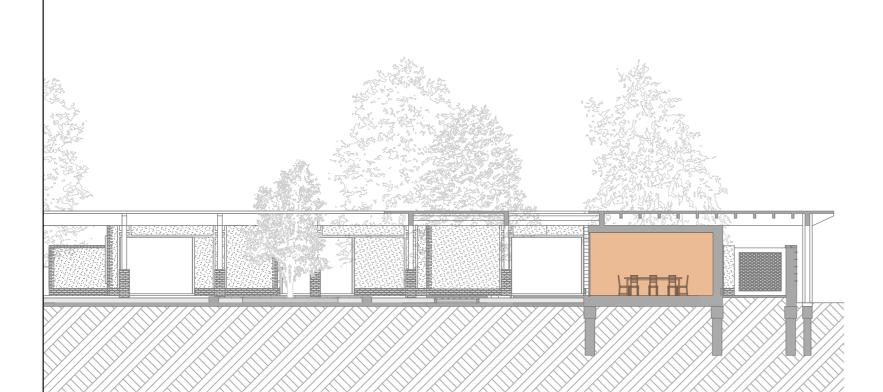








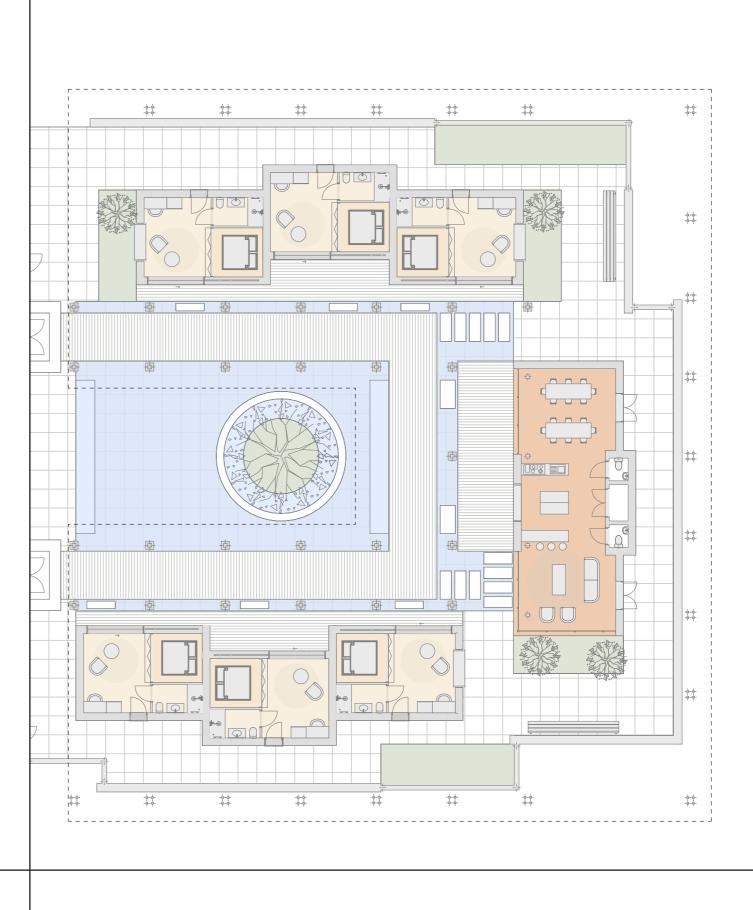
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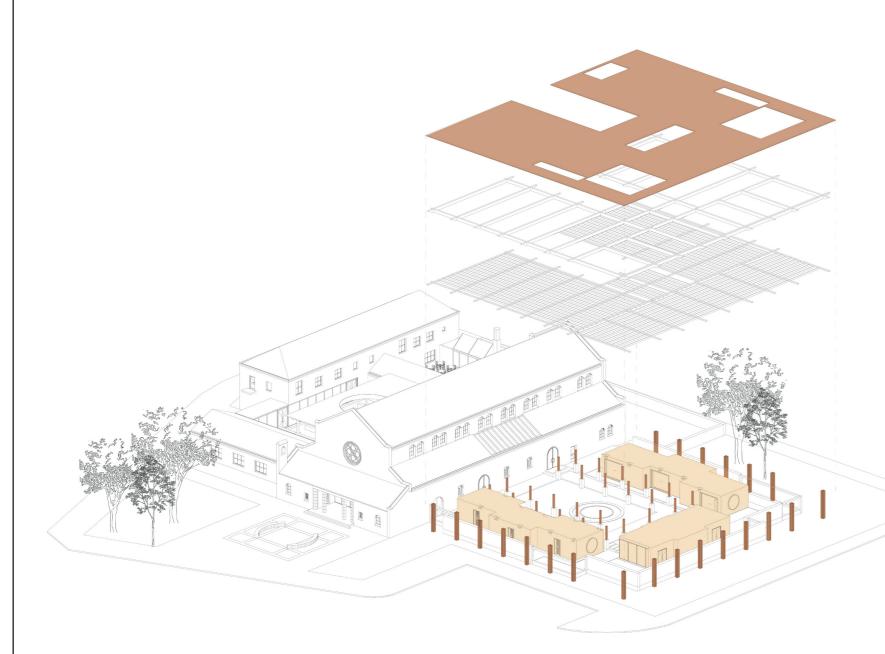
Functions

The visitors have their own separate rooms and a shared living room where they can eat together.



Final design

The Circular Retreat



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Functions

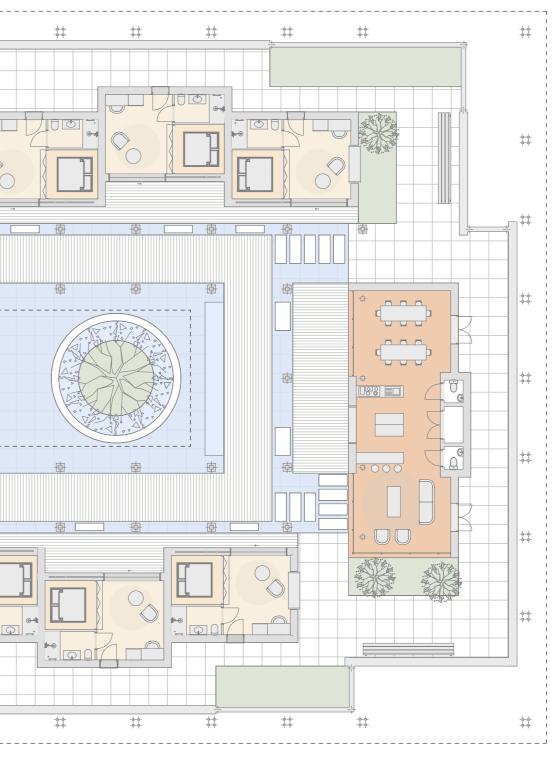
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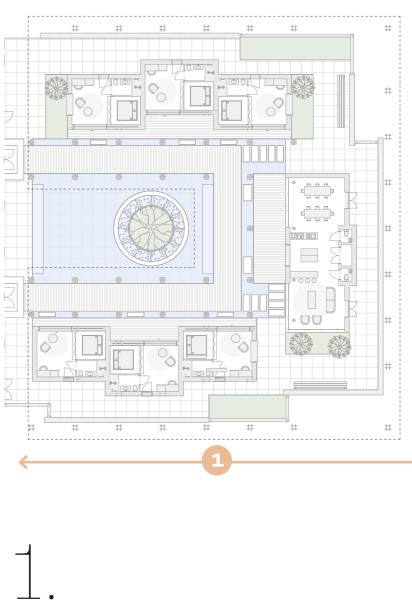
Construction

The roof is a separate structure that hovers over the buildings like an umbrella.

The Circular Retreat







Outer walls

The thick rammed earth walls that surround the retreat separate the outside and inside and offer protection.



P R w a T

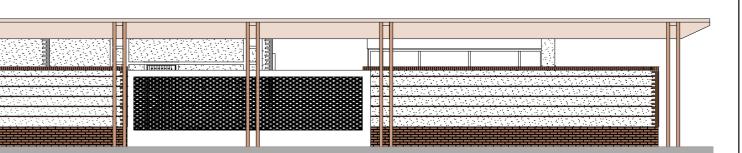
Final design

Outer walls

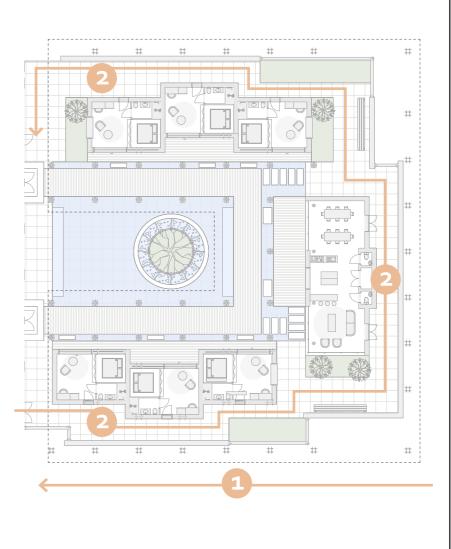
Protective layer

Reclaimed bricks will be used in the new wall construction as reinforcements and erosion checks.

The roof structure hovers over the outer walls and lands on the ground on thin long legs. This gives the building a lighter and more transparent appearance.





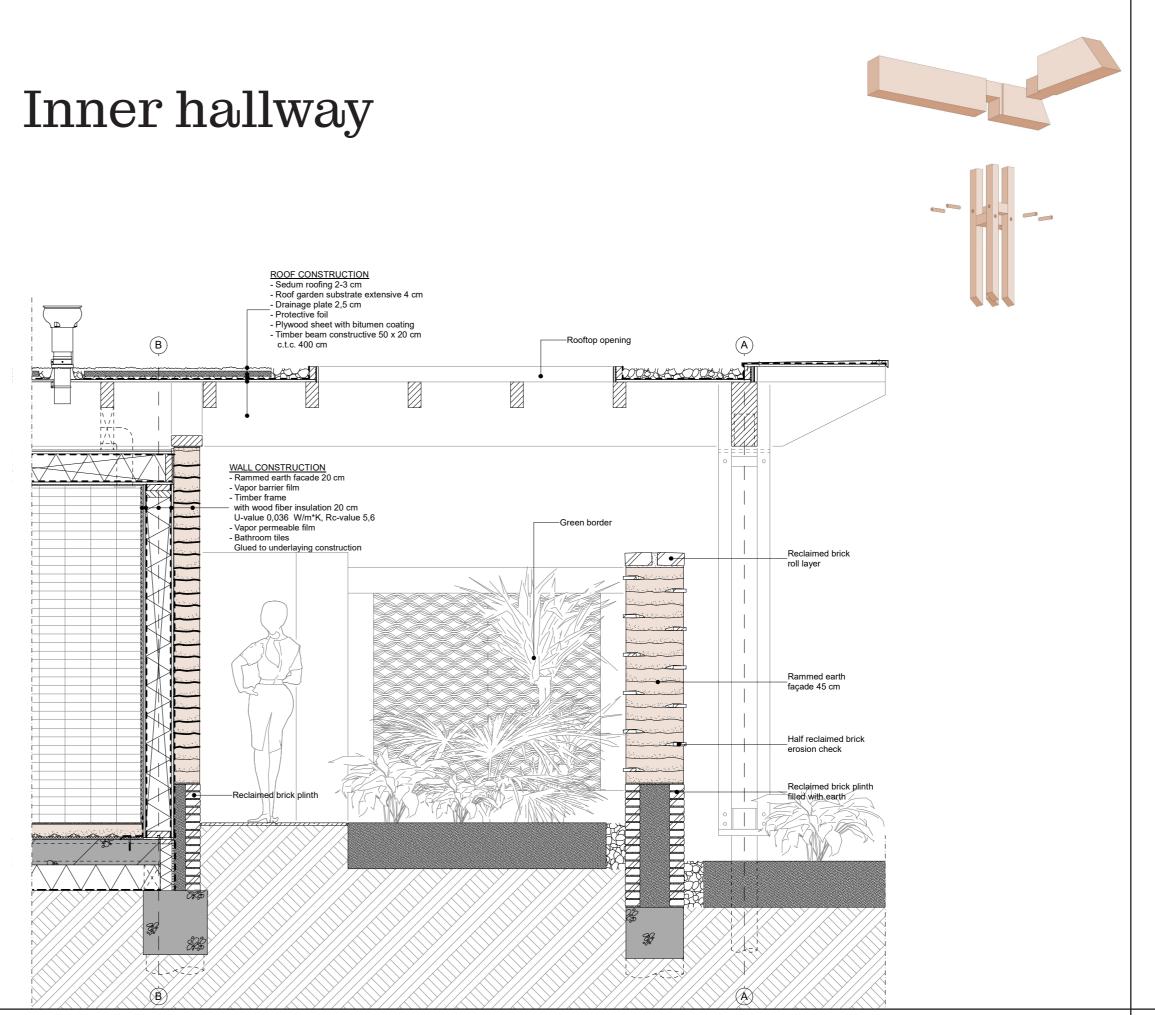




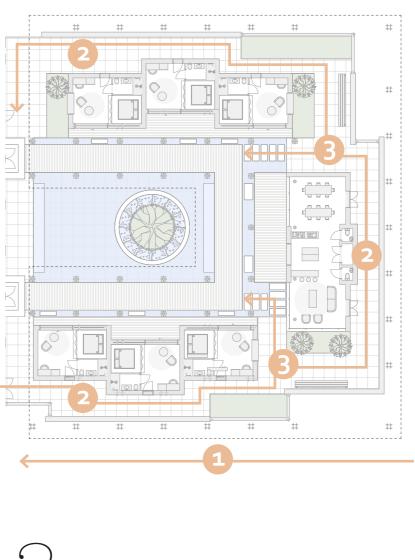
Inner hallway

The walls on the inside of the retreat are less robust than the outside walls but still function as a protective layer between the outside and the inside for the visitor.





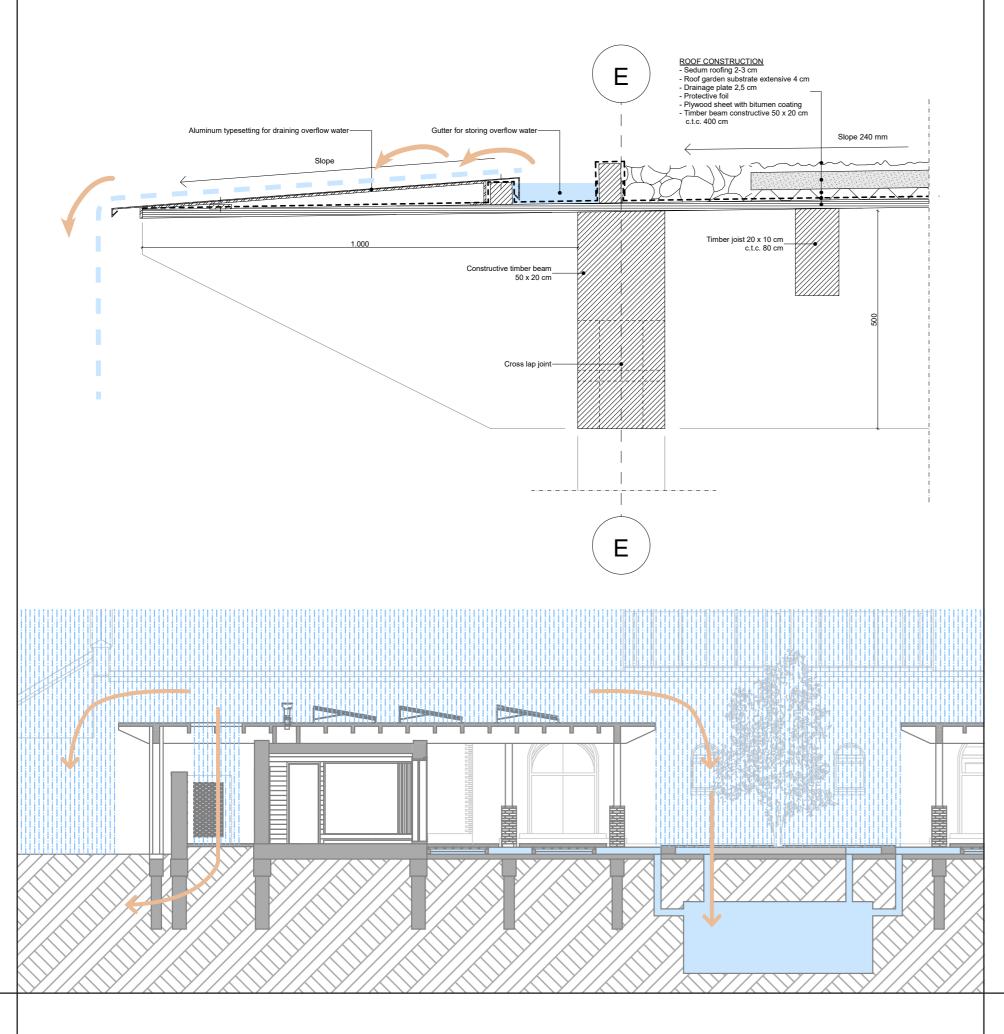






Transition zone

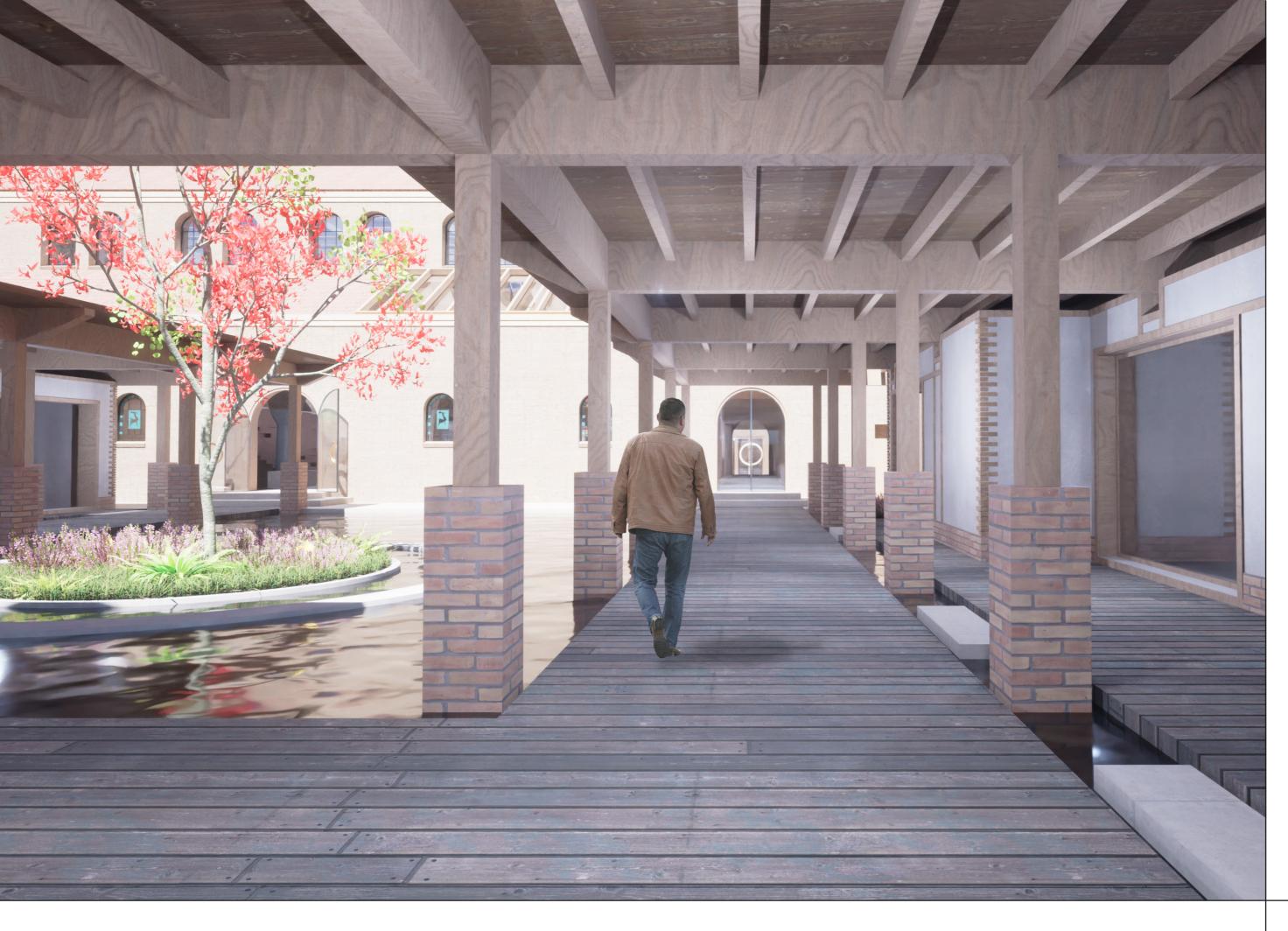
The roof and walls create spaces that give a sense of inside and outside, protection and exposure.

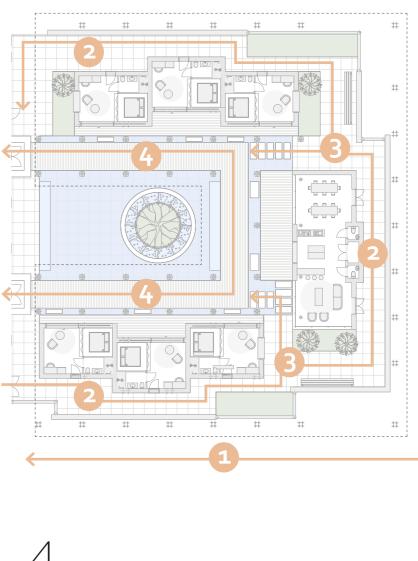


Transition zone

Experiencing rain

The square at the centre of the retreat functions as a water reservoir to store rainwater. The water will flow off the roof freely.

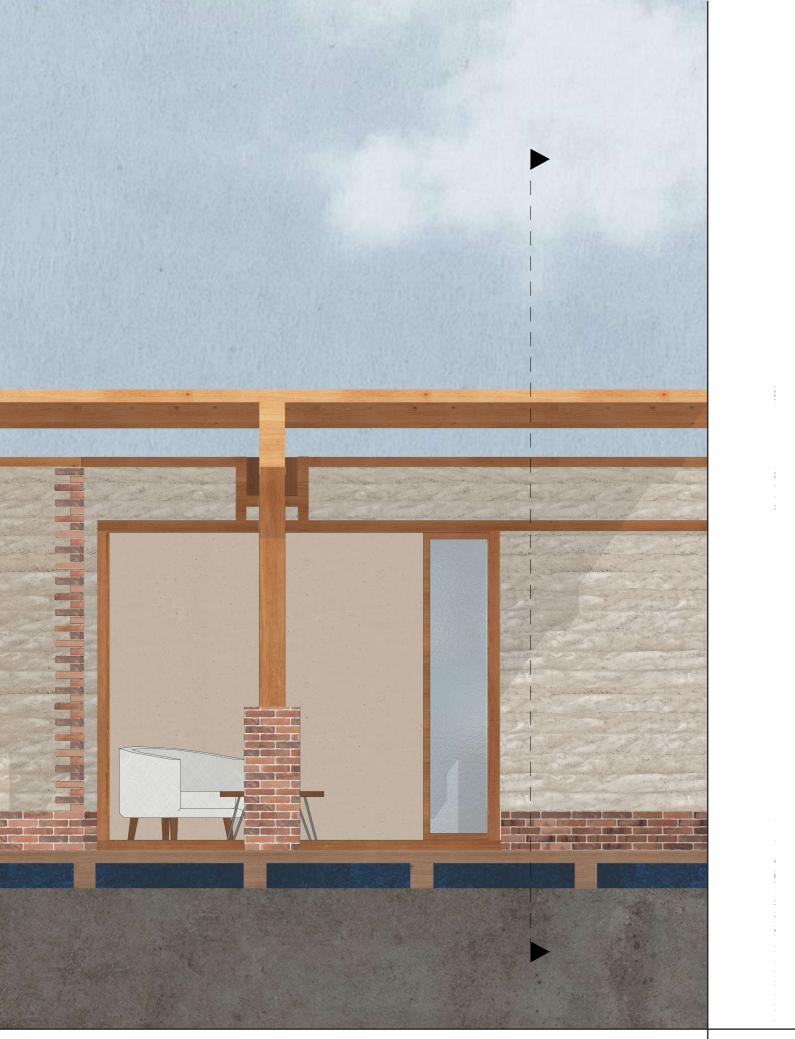


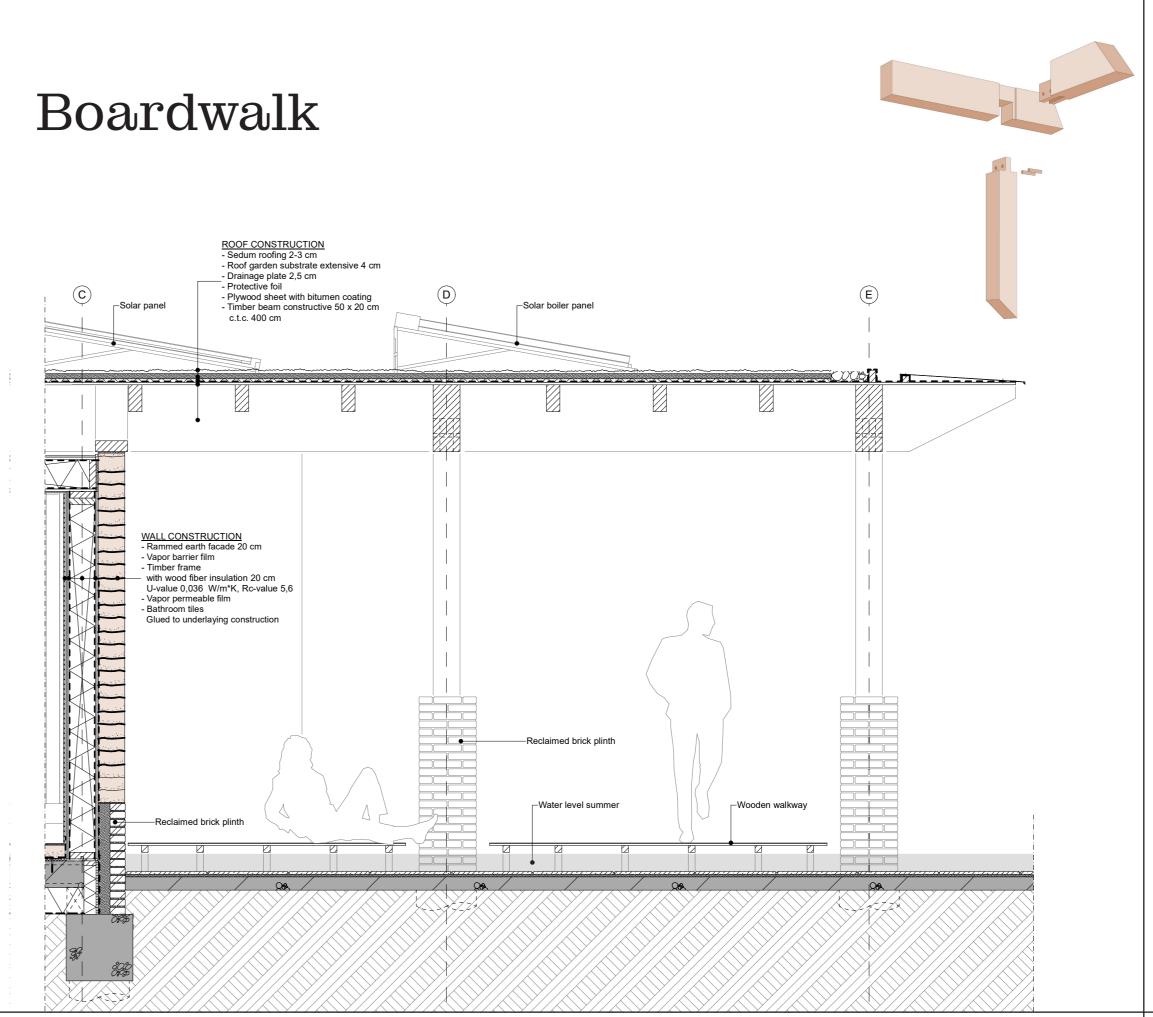


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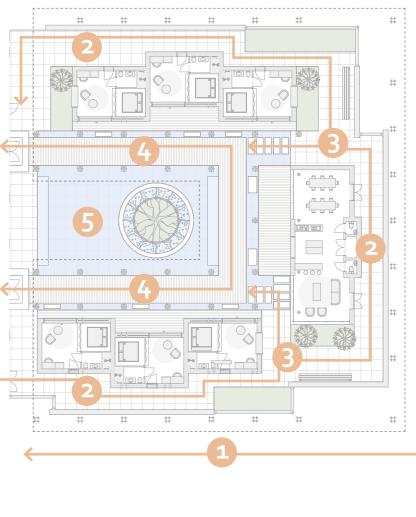
Boardwalk

The rooms are located around the circular routing that leads towards the other areas. It is an elevated pathway that floats over the inner square.









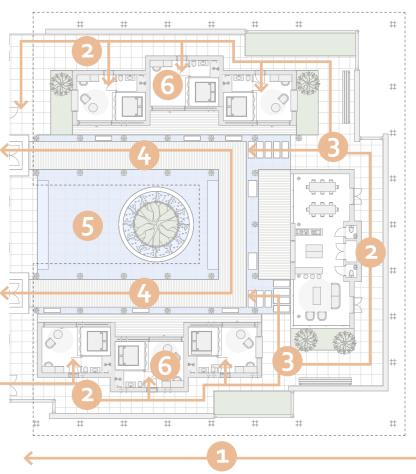


Water square

The reflective quality of the water in the central square can evoke contemplation and meditation. In the middle a cherry tree marks the passing of the seasons.









Guest rooms

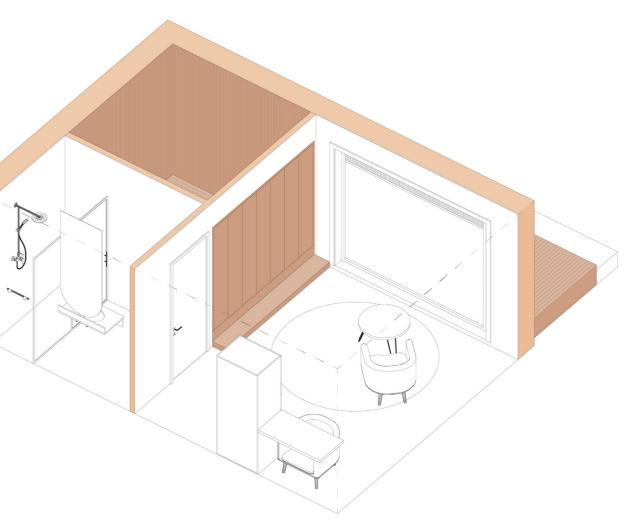
In the warmer periods the rooms can be fully opened towards the outside. Every room looks towards the inner spiritual space, marked by a cherry tree.

Guest rooms

1.

Autumn/Winter

The rooms are also designed to experience nature more. The sleeping area can be closed off to heat up faster during colder periods. This forces visitors to withdraw and rest in the winter period.



$Guest\,rooms$

1.

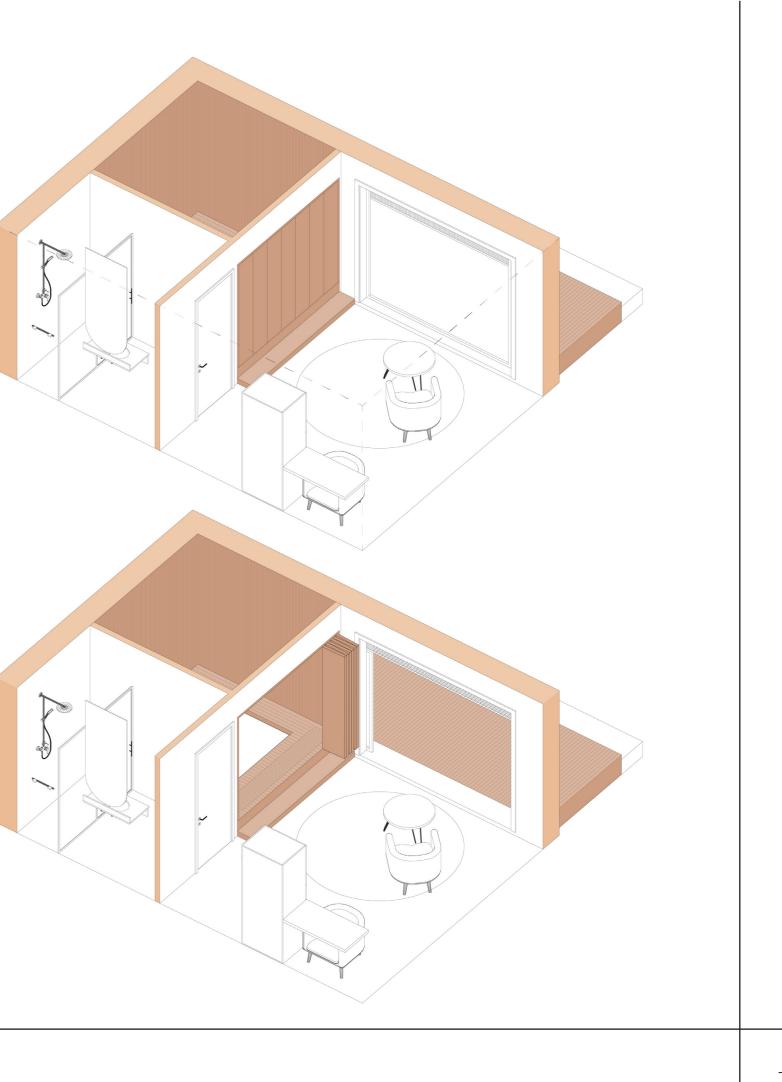
Autumn/Winter

The rooms are also designed to experience nature more. The sleeping area can be closed off to heat up faster during colder periods. This forces visitors to withdraw and rest in the winter period.



Spring/Summer

In the warmer periods, the wall can be opened to keep cool air in the room. A sliding door can be opened to access the outside terrace.



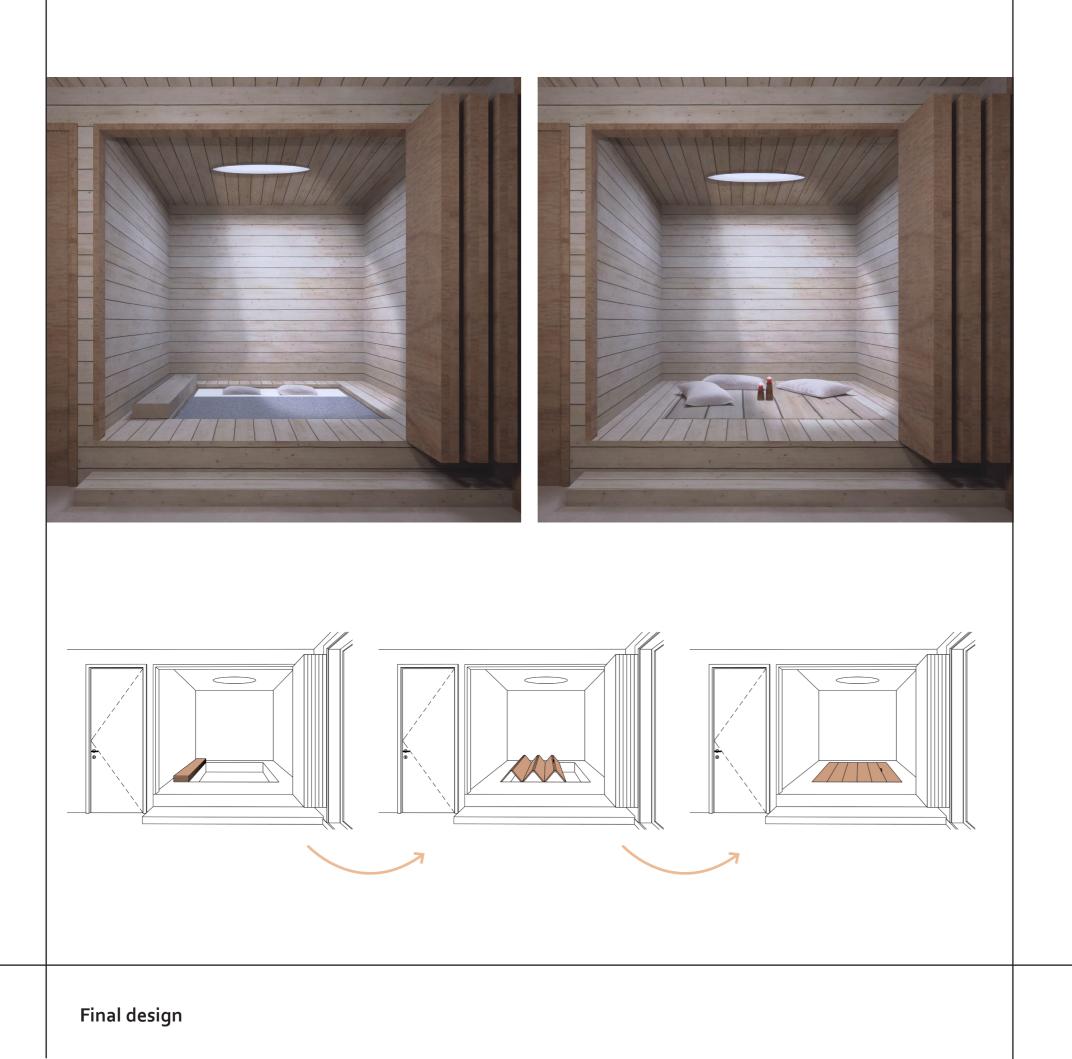


Final design

Guest rooms

Multifunctional space

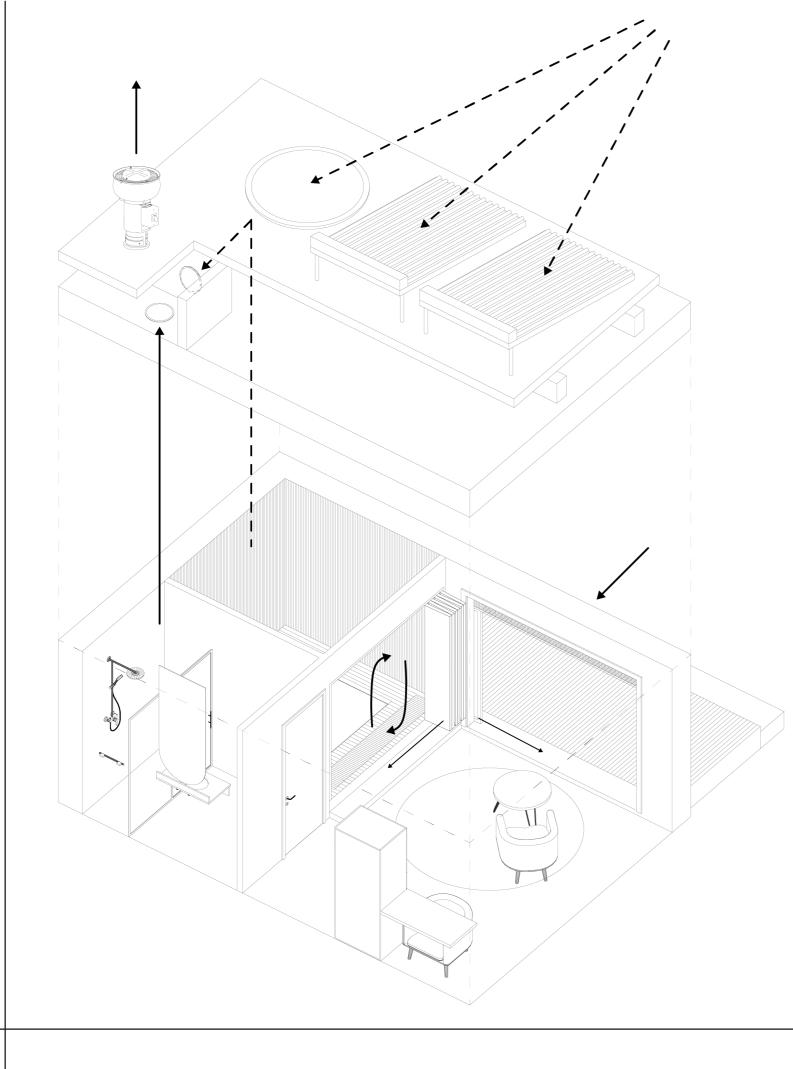
In the spring and summer, people will turn more to the outside, when it is warmer and more comfortable. In this period the modern box bed can also be transformed into a meditation space.

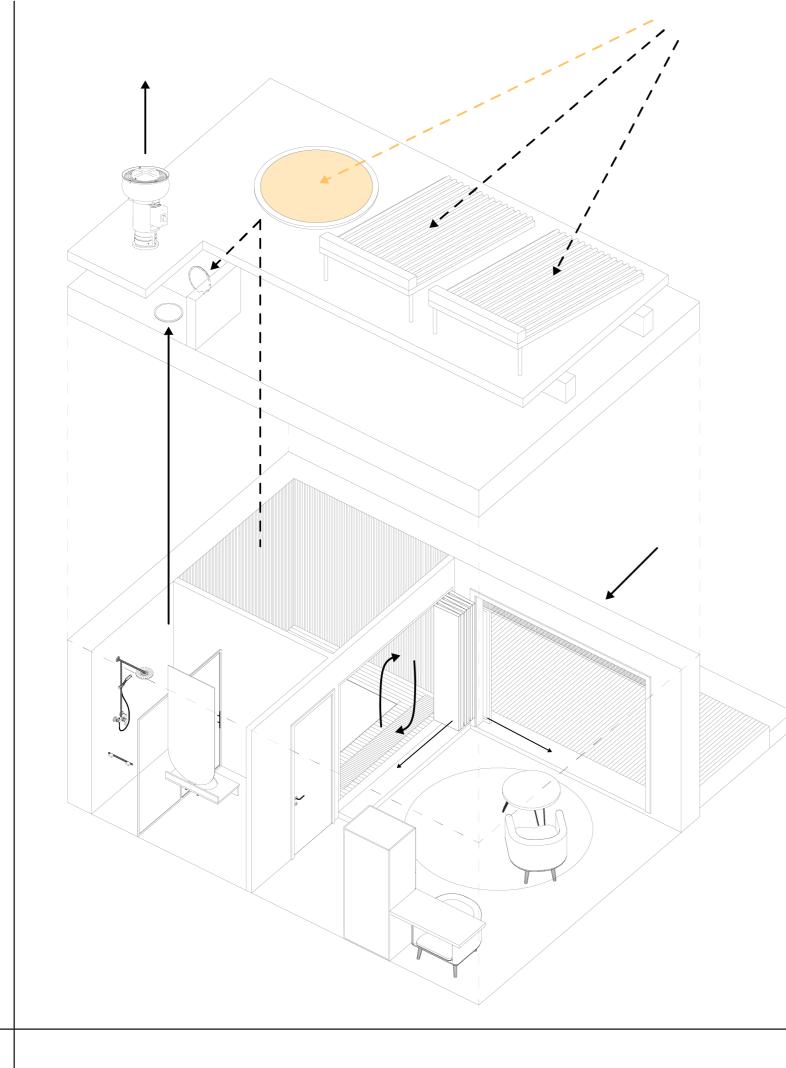


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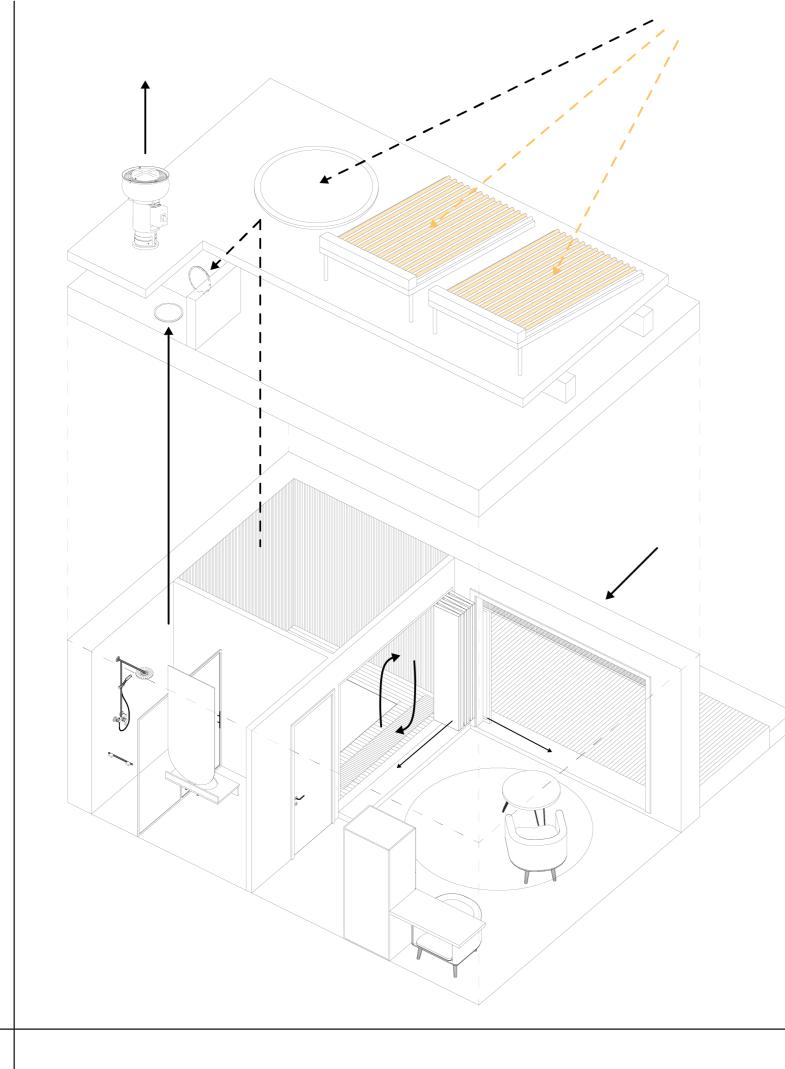




1.

Natural daylight

Visitors wake up with natural daylight through a skylight in the sleeping area.This strengthens the connection with the natural rhythm.



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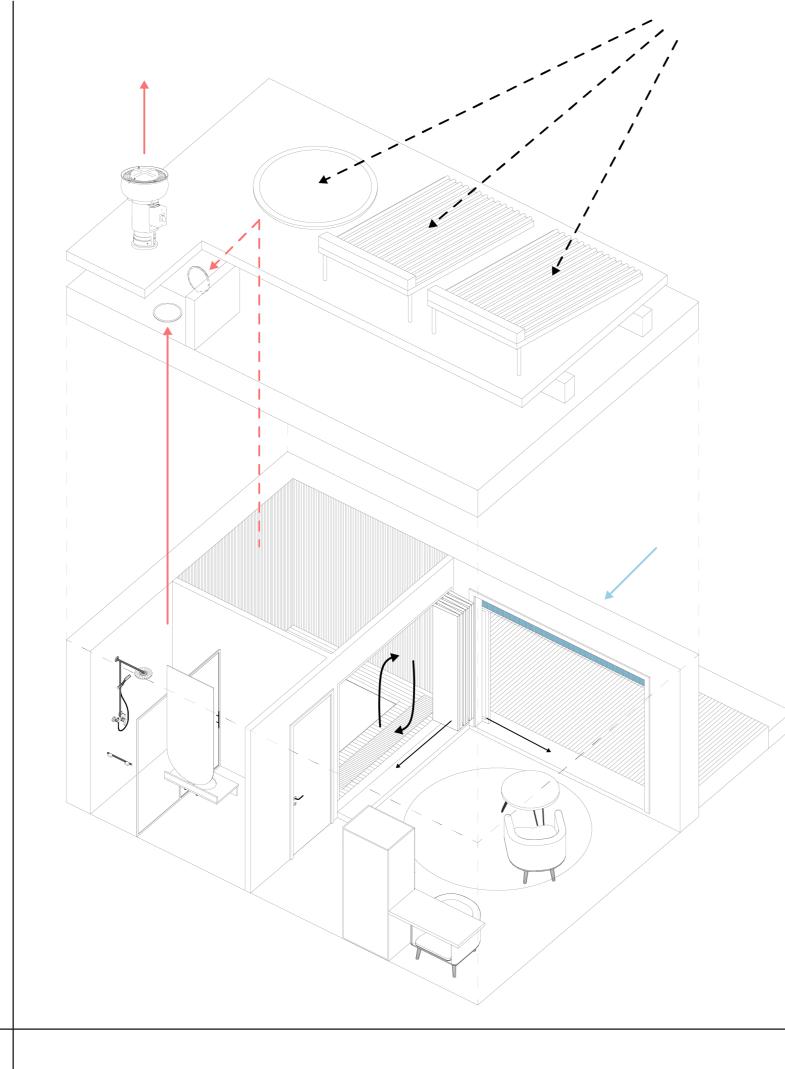
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Final design

2.

Solar boiler panels



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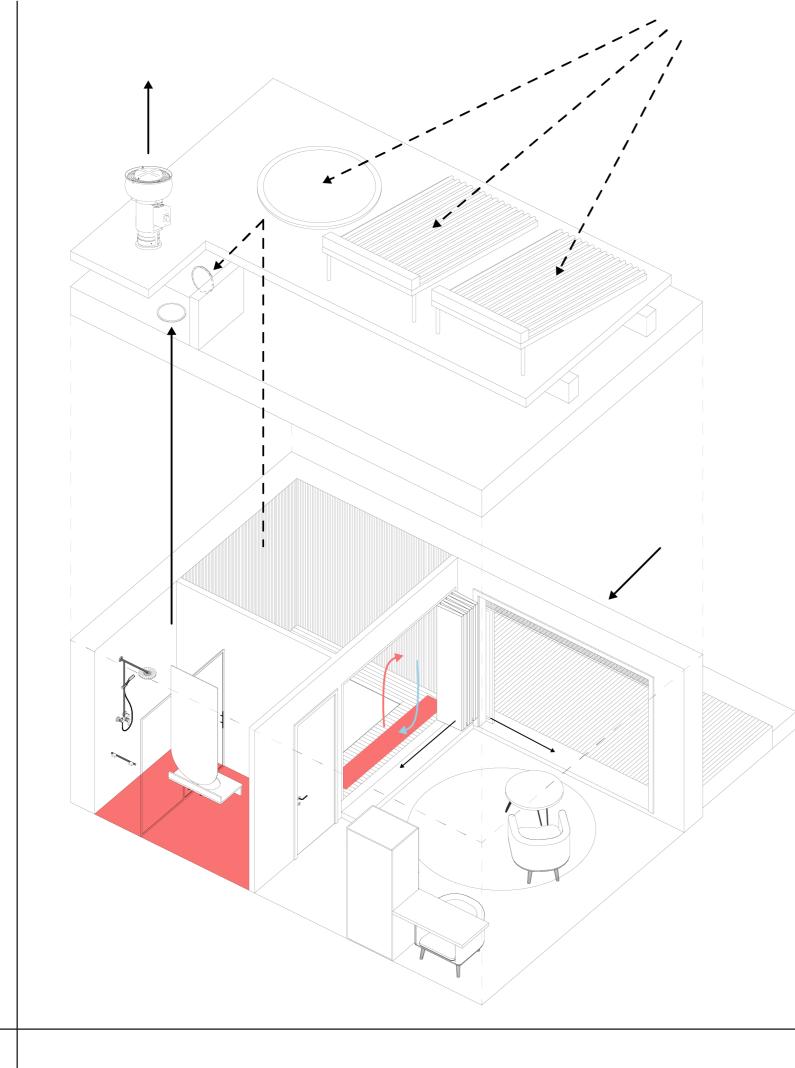
2.

Solar boiler panels

3.

Ventilation

Fresh air will enter the room through a vent in the facade and is sucked off by a pipe roof ventilator.



\perp .

Natural daylight

Visitors wake up with natu daylight through a skylig in the sleeping area.T strengthens the connecti with the natural rhythm.

4.

Heating & cooling

The bathroom will be heated by underfloor heating and the sleeping area through a floor convector. This convector heats or cools the incoming air.

Final design

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Solar boiler panels

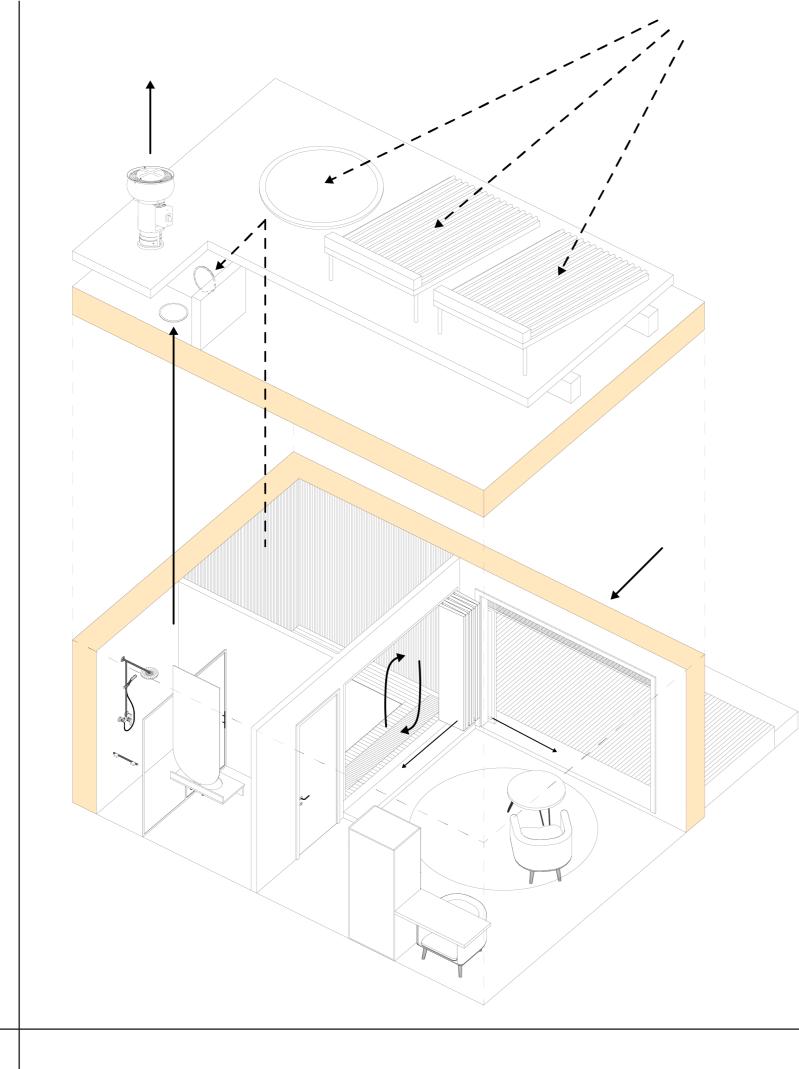
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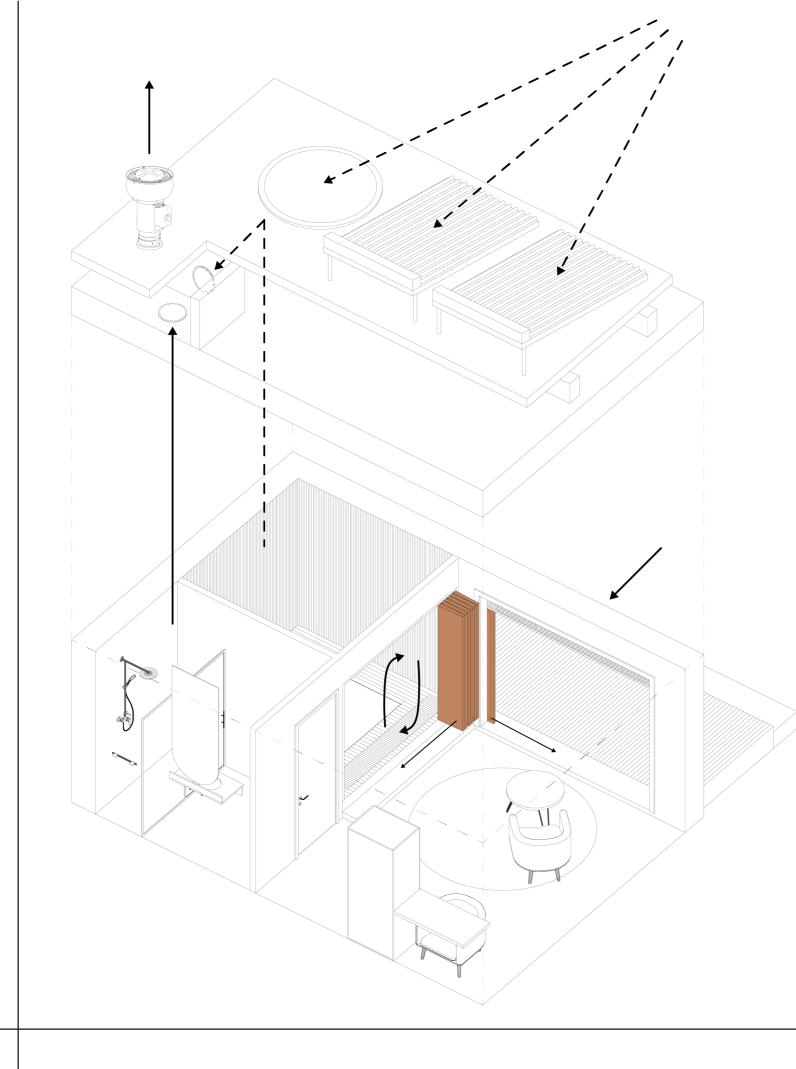
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Insulation

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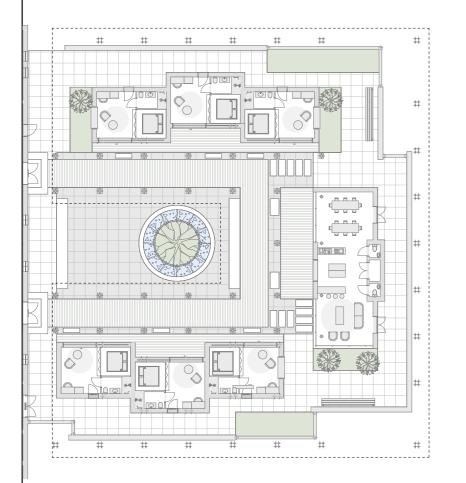
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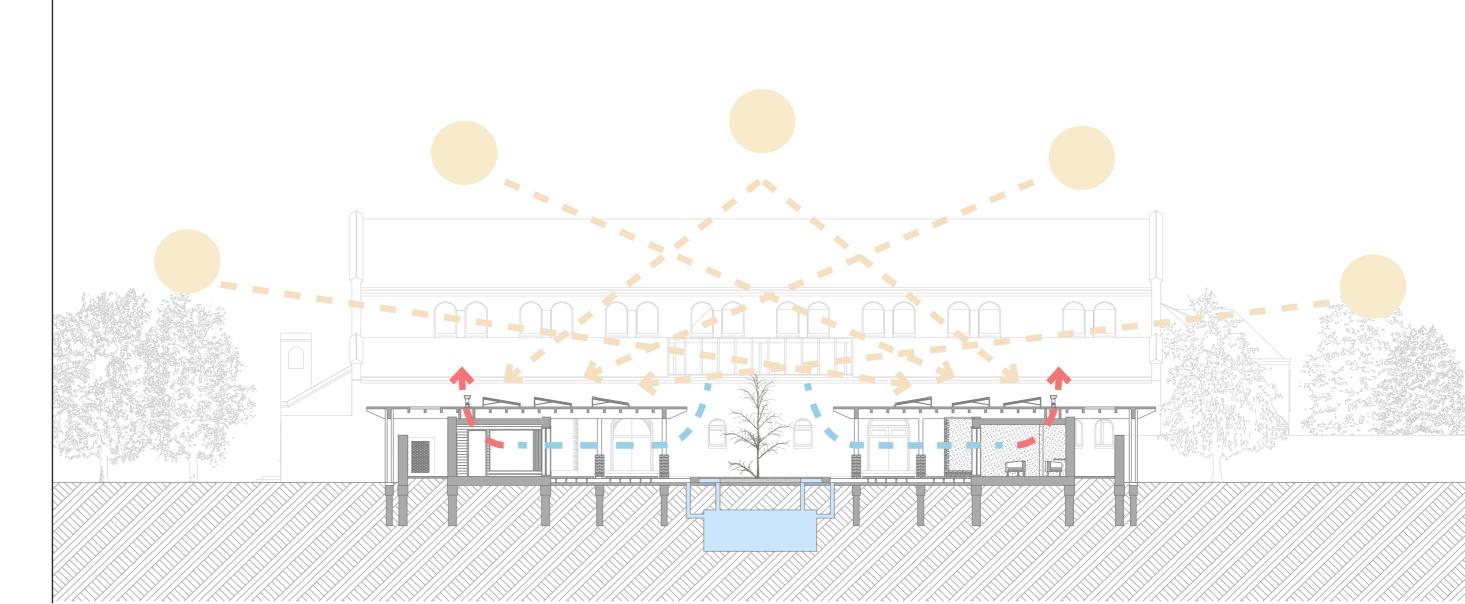
Openings

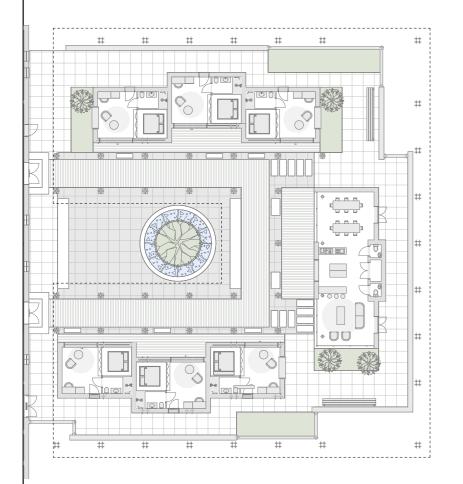
The sleeping area can be closed off to warm up the small space. And together with the facade can be opened up to cool down faster.



- Period of rest and contemplation
- Empty square
- Water is stored underground





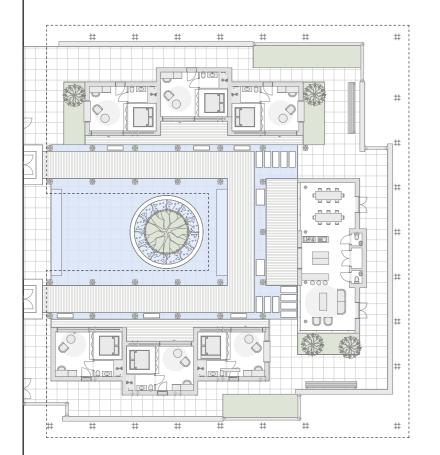


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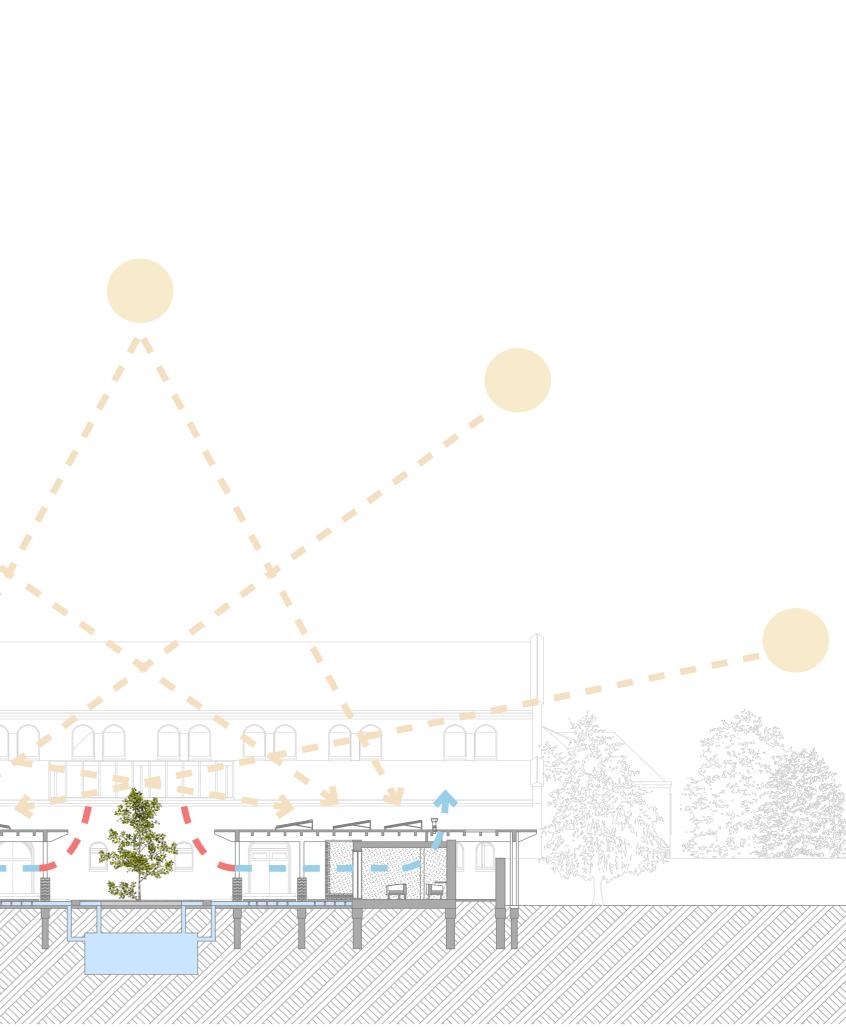
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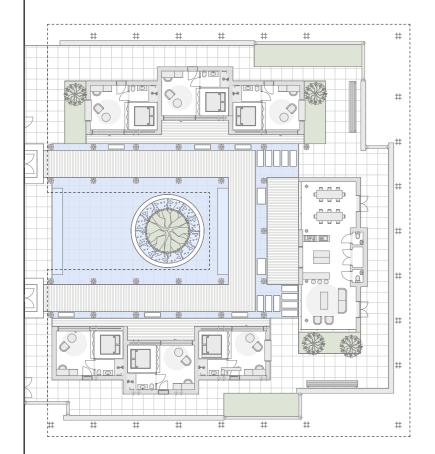
Climate design



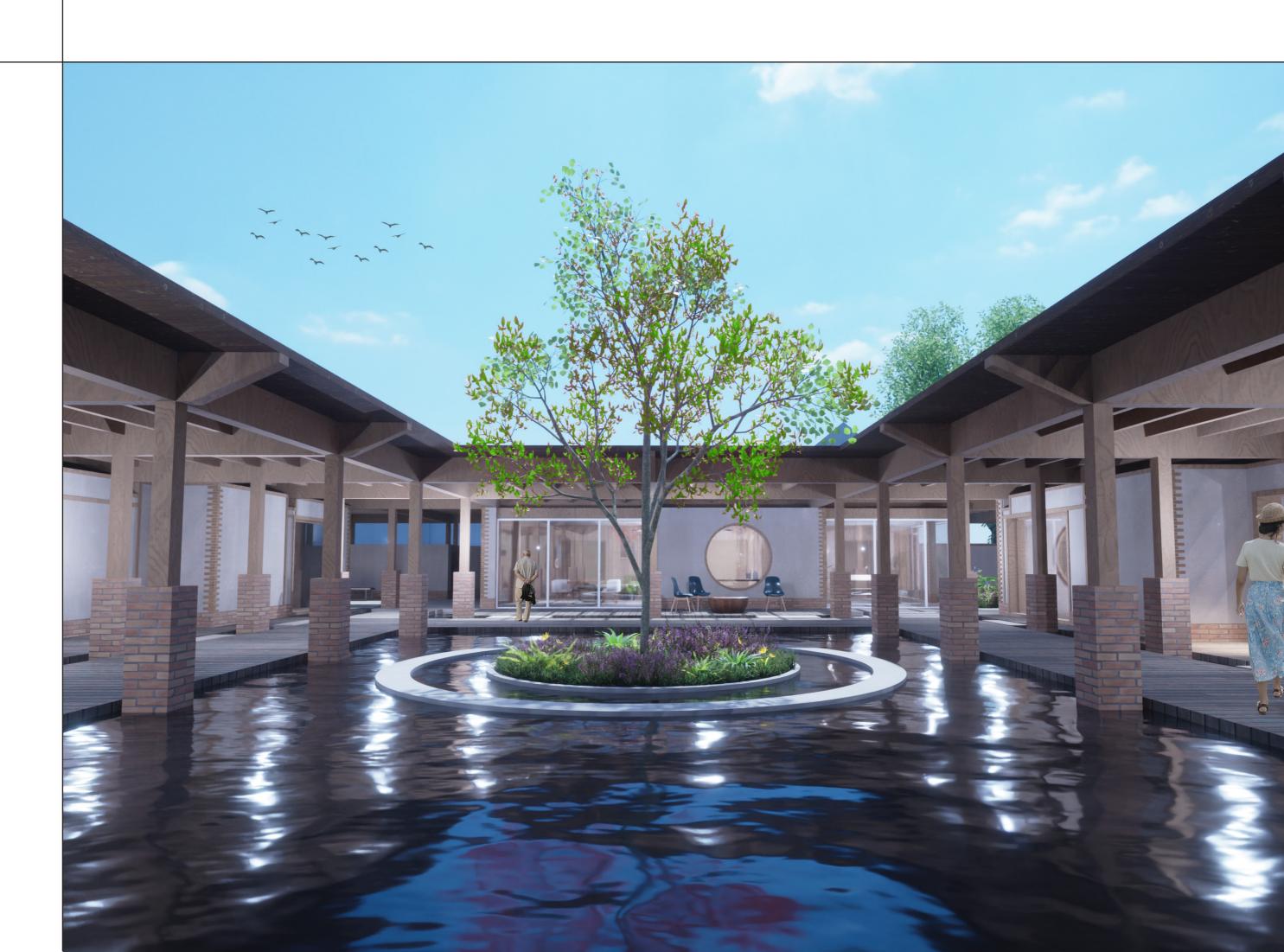
- Period of activity and new ideas
- Square filled with water
- Water cools warm air

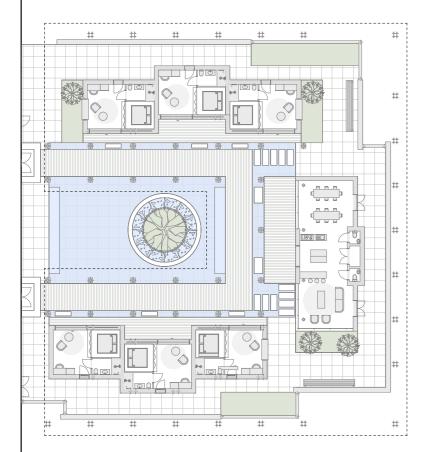
SUMMER PERIOD





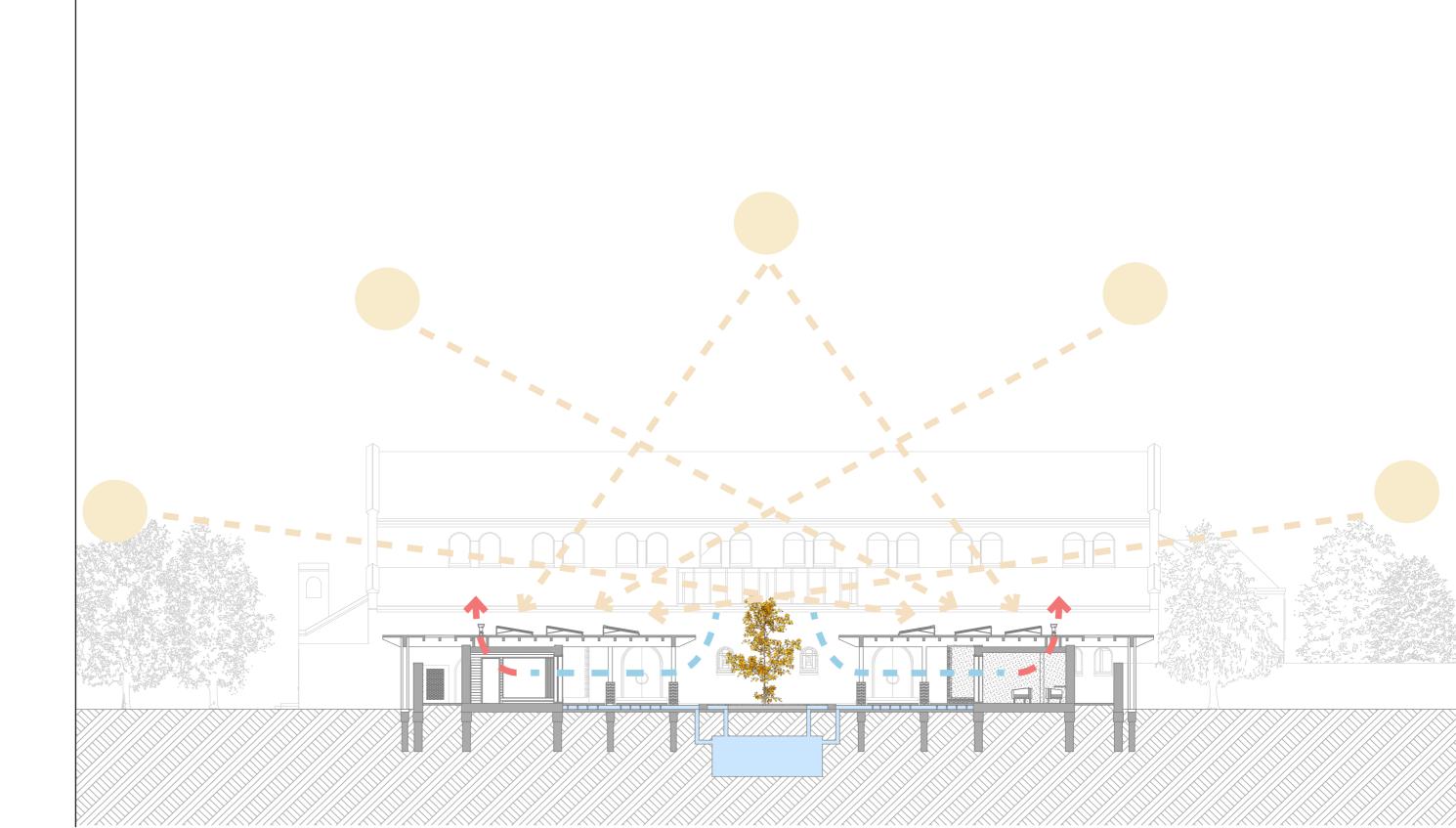
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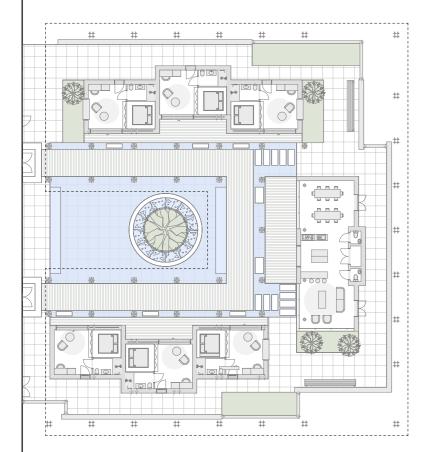




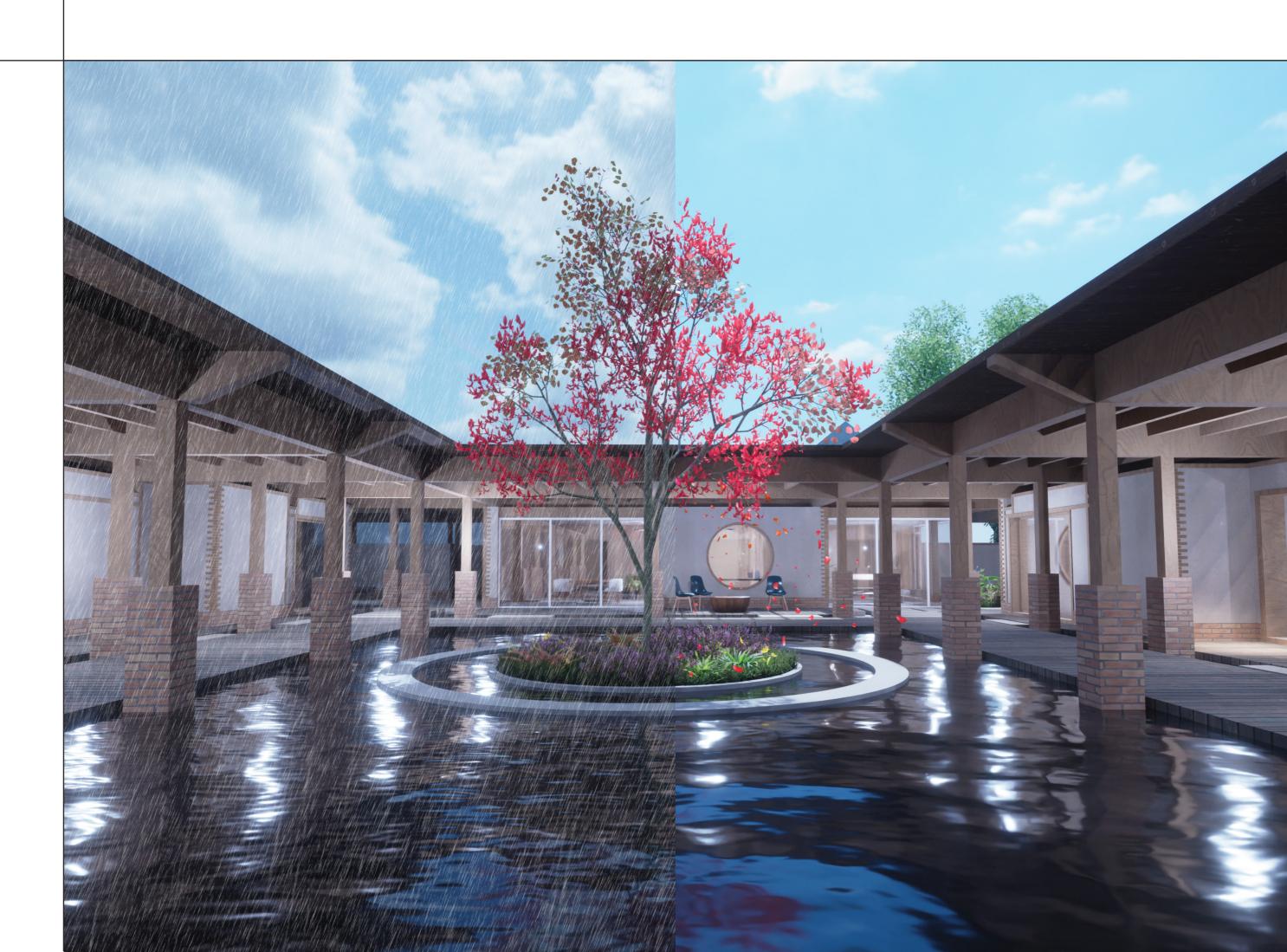
- Autumn as period of withdrawal and reflection
- Emptying square
- Spring as period for new ideas/ beginnings
- Filling square

AUTUMN AND SPRING PERIOD

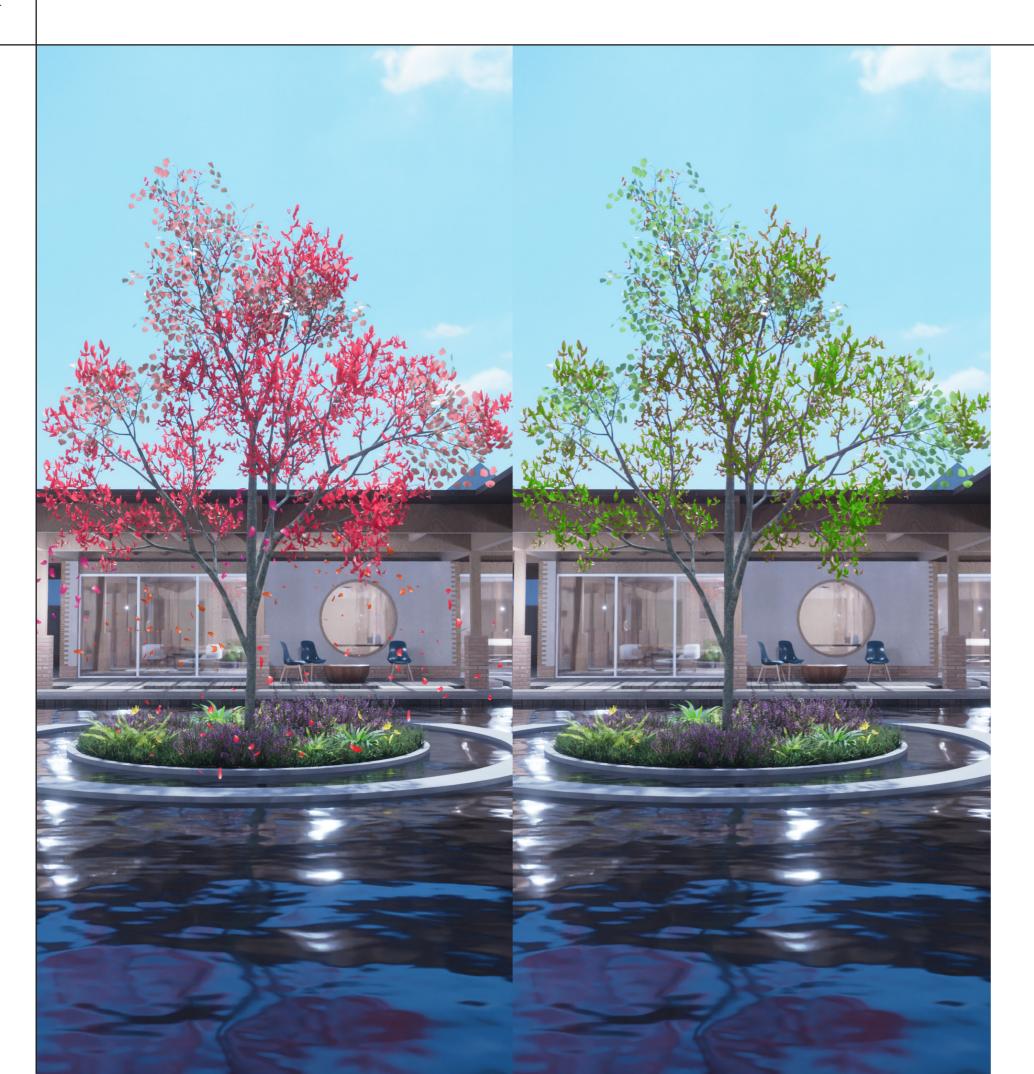




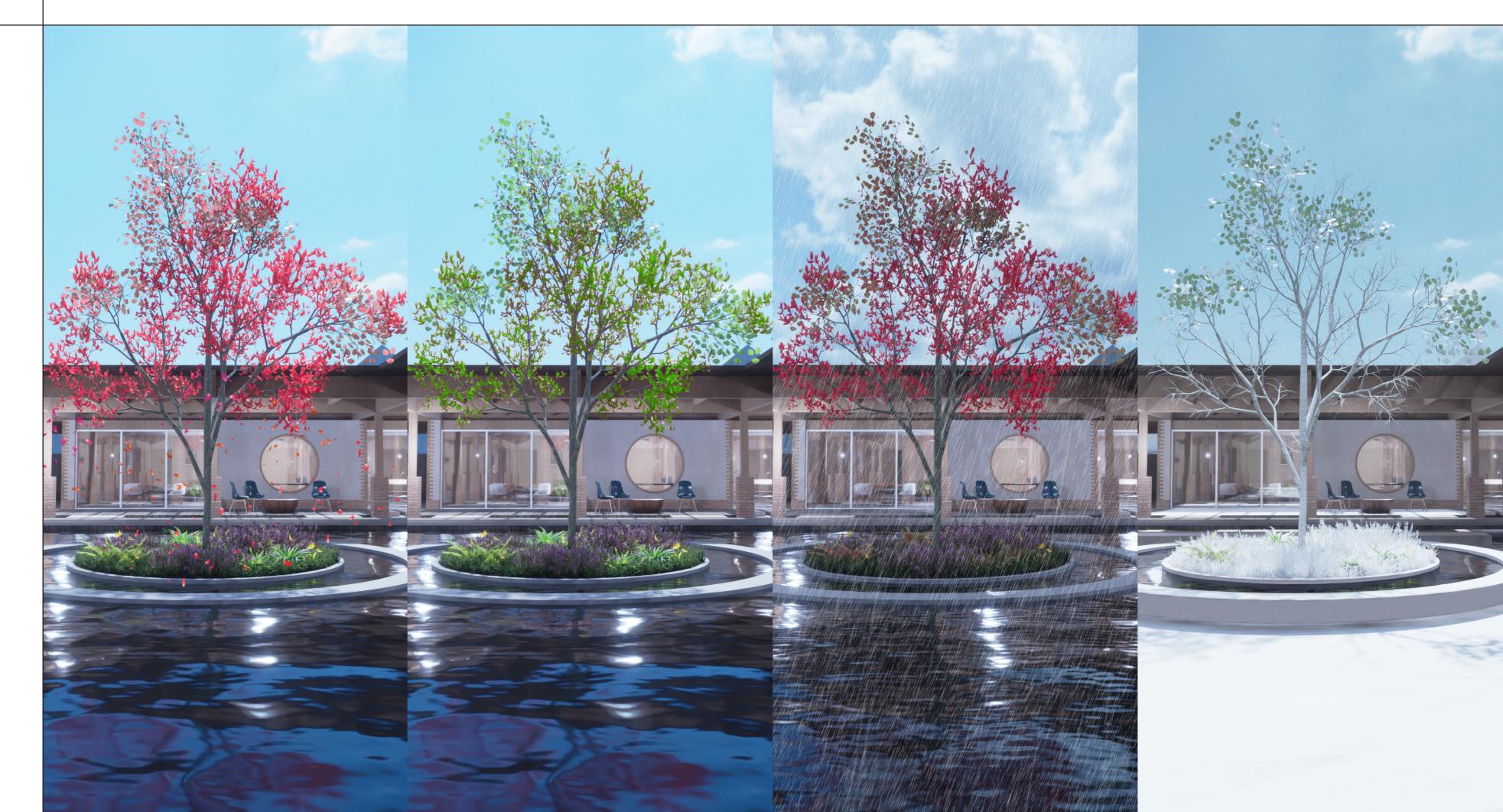
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Circular Retreat

House of Modern Rituals

5435145

03-07-2023

Heritage & Architecture