P5

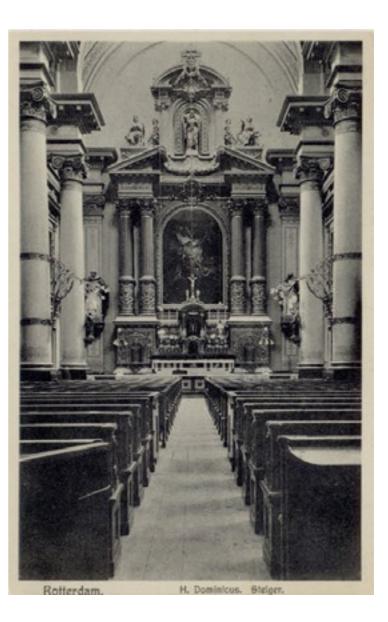
Art Complex Het Steiger

adaptive reuse of a Dominican church complex in Rotterdam

Chiem Hollander

Panorama of Rotterdam from *het Witte Huis*, 1902





Sint-Dominicuskerk, 1922



The St. Dominic Church after bombing of Rotterdam, June 1940



The destroyed St. Dominic church and the new location



The new St. Dominic Church designed by Kraaijvanger, 1960



Front facade of the St. Dominic Church, 2023







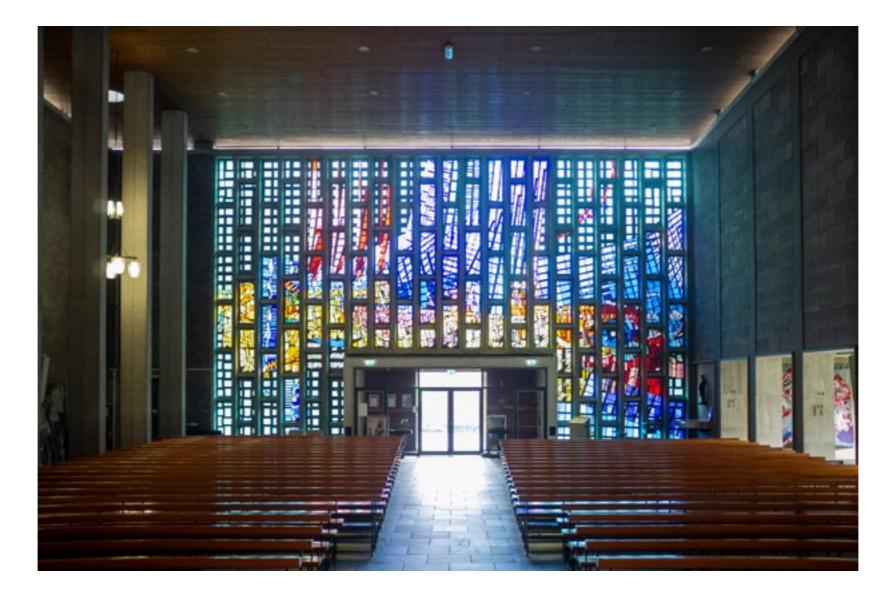
Back side Het Steiger with bell tower and former day chuch, 2023





Church hall with sacramental altar, 2023 (left)

Cloister with inner courtyard, 2023 (right)



Interior front facade

The future of the Steigerkerk?

July 2021

Desiritate Neterland aintia + Leven is volveid Agends + Organizatie + Contact +





et bestuur van de parochie H. Johannes in Rotterdam heeft het oornemen te besluiten tot verkoop en onttrekking aan de eredienst van de Dominicus- of Steigerkerk.

Dut staat in een brief van het bestaar aan de geloofsgemeenschap van het Steiger, ook gepubliceerd op de site van de parochie.

De parochie, een fusie van drie gemeenschappen, heeft de afgelopen jaren uitvoerig ondersteek gedaan naar de financiële uooruitpichten. Het bestuur verwacht dat eind volgend jaar het vermogen van de parochie zal zijn verdeenen. An er geen groot onderhoud gedaan moet worden, kunnen de jaarlijkse tekortee nog tut eind 2025 opgevangen worden. Dan is de kas echt leeg, schrijft het beutuur, dat op 16 juli met de Staigerue gemeenschap in gesprek is pegaan.

Duelleg met de drie gemeenschappen 'heeft niet geleid tot vertrouwen in een ontwikkeling naar een levendigt en tok is financieel opzicht gezonde gemeenschag', integendeel, man verwacht dat alle drie de gemeenschappen binnen een termijn van vijf tot tien jaar niet. meer kunnen functioneren.

Een voorgenomen beuluit is een fonmele stap. Het besluit moet aan de blaachop voorgelegd worden. Deze moet dan de gemeenschap, de priesterraad en het kapittel van het blodom tierover horen. Pas daerna kan de bisachop het voorgenomen besluit om de kerk aan de eredienst to onttrekken en te verkopen al dan niet goedkeuren. Zonder deze goedkeuring kan er geen verkoopcontract gesloten worden met mogelijke kopers. Het uiteindelijke verkoopcontract most ook weer door het bladom goedgekeurd worden. Het hele troject kan drie à vier jaar duren. De kerk bij/t dus, de komende tijd, gewoon in gebruik.

Intention to cease worship at the St. Dominic Church



May 1940

The destroyed St. Dominic Church

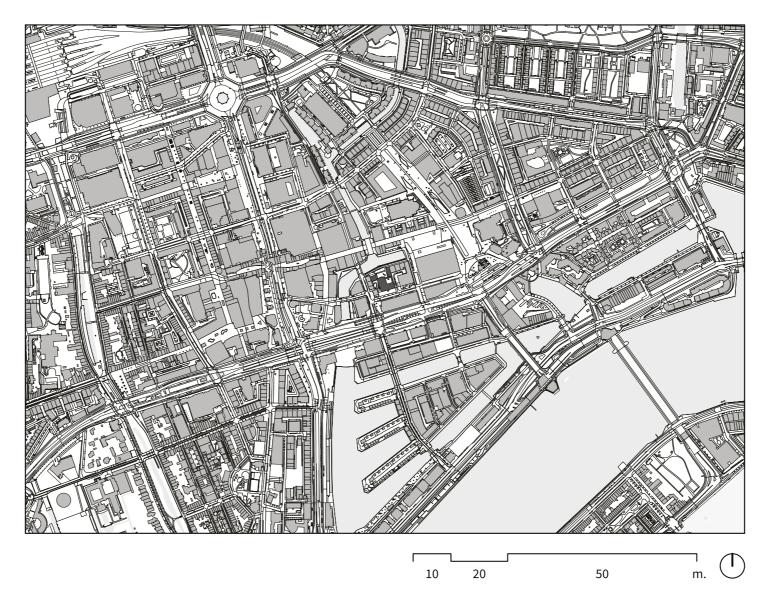


1960

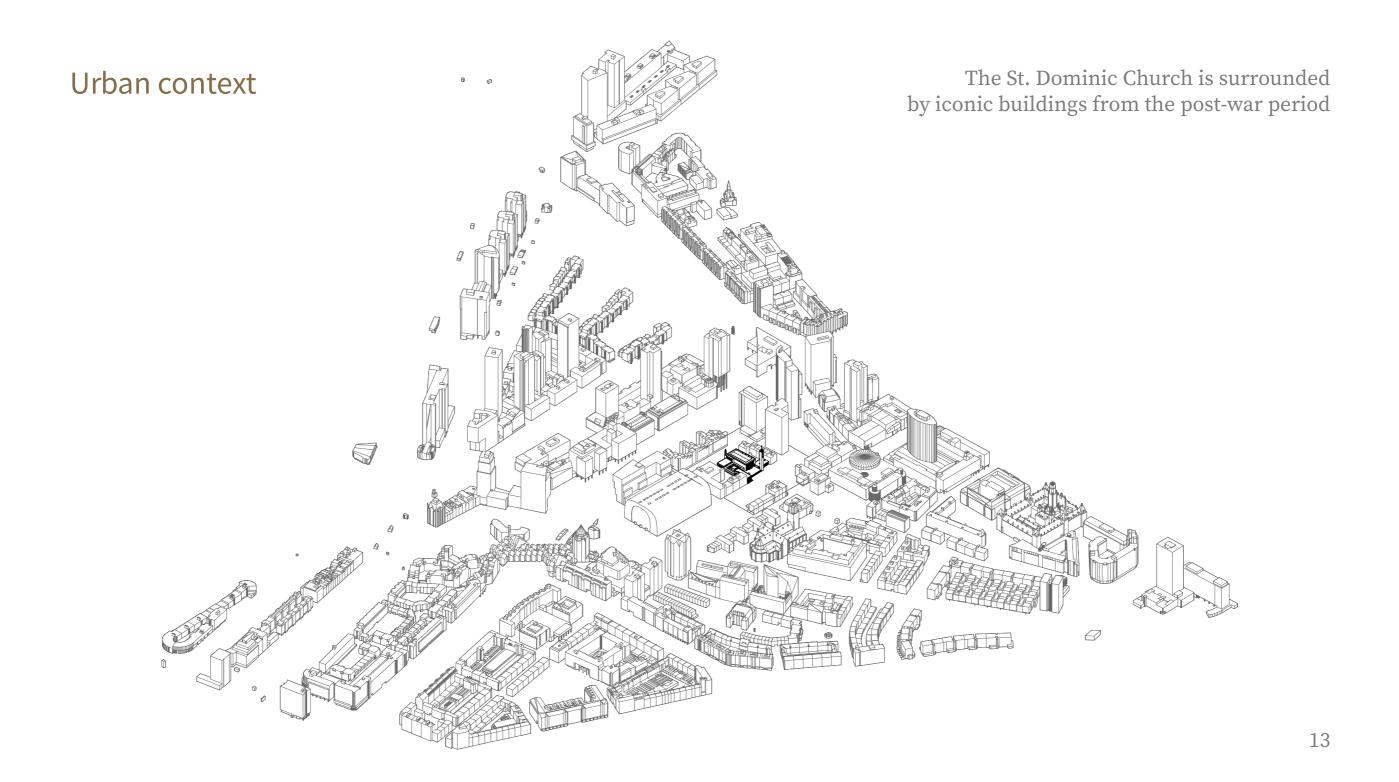
Completion of the new St. Dominic Church

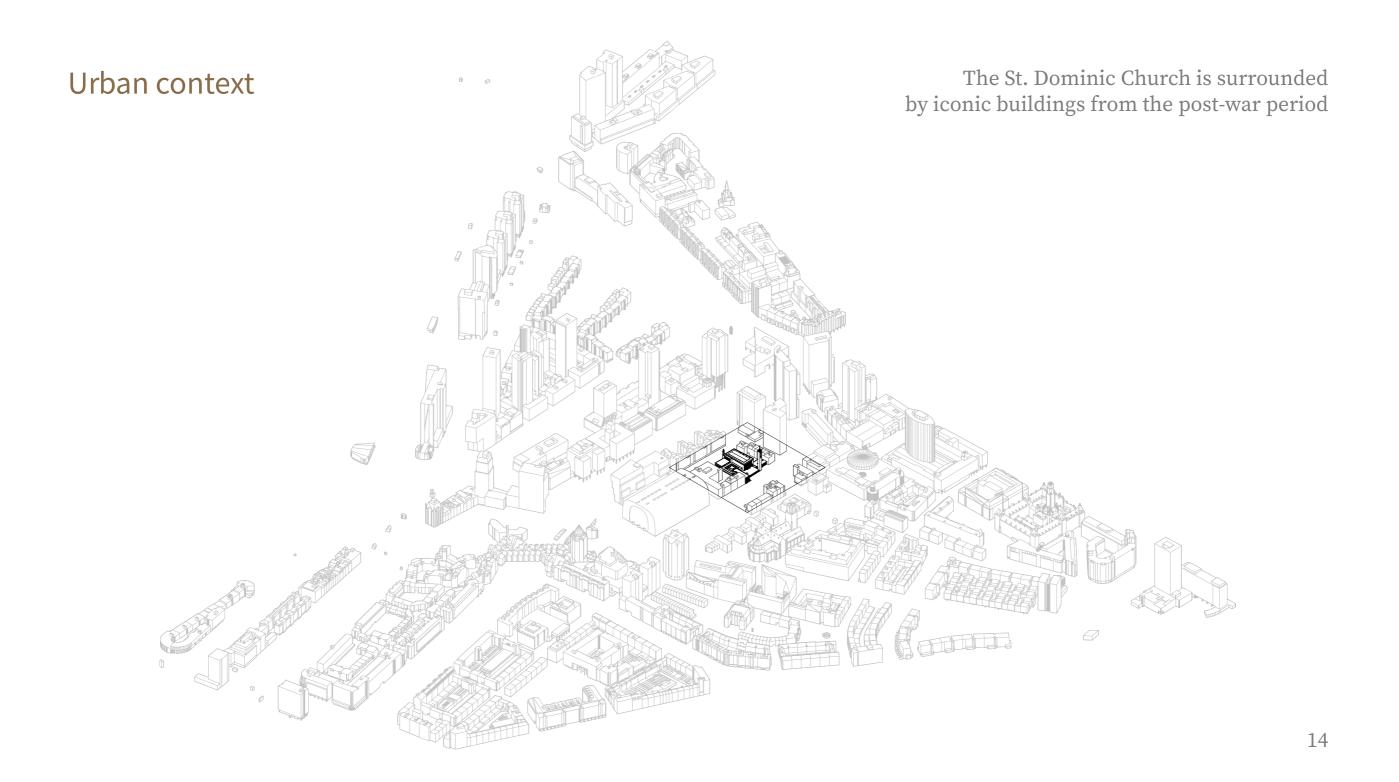


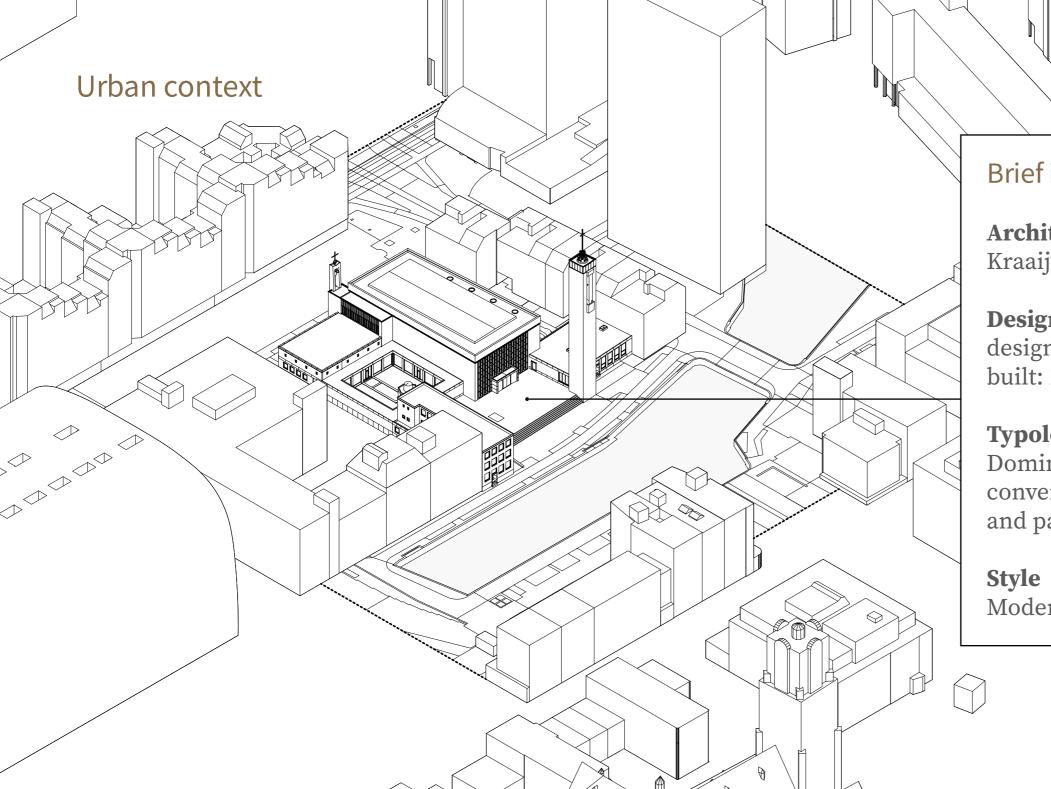
Urban context



The St. Dominic Church is located in the centre of the Stadsdriehoek







Brief information

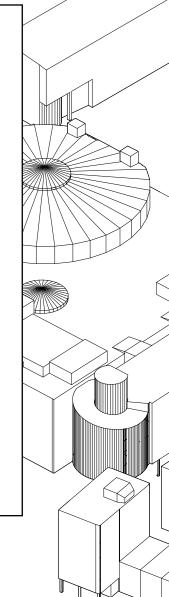
Architect Kraaijvanger

Design design: 1953-1957 built: 1959-1960

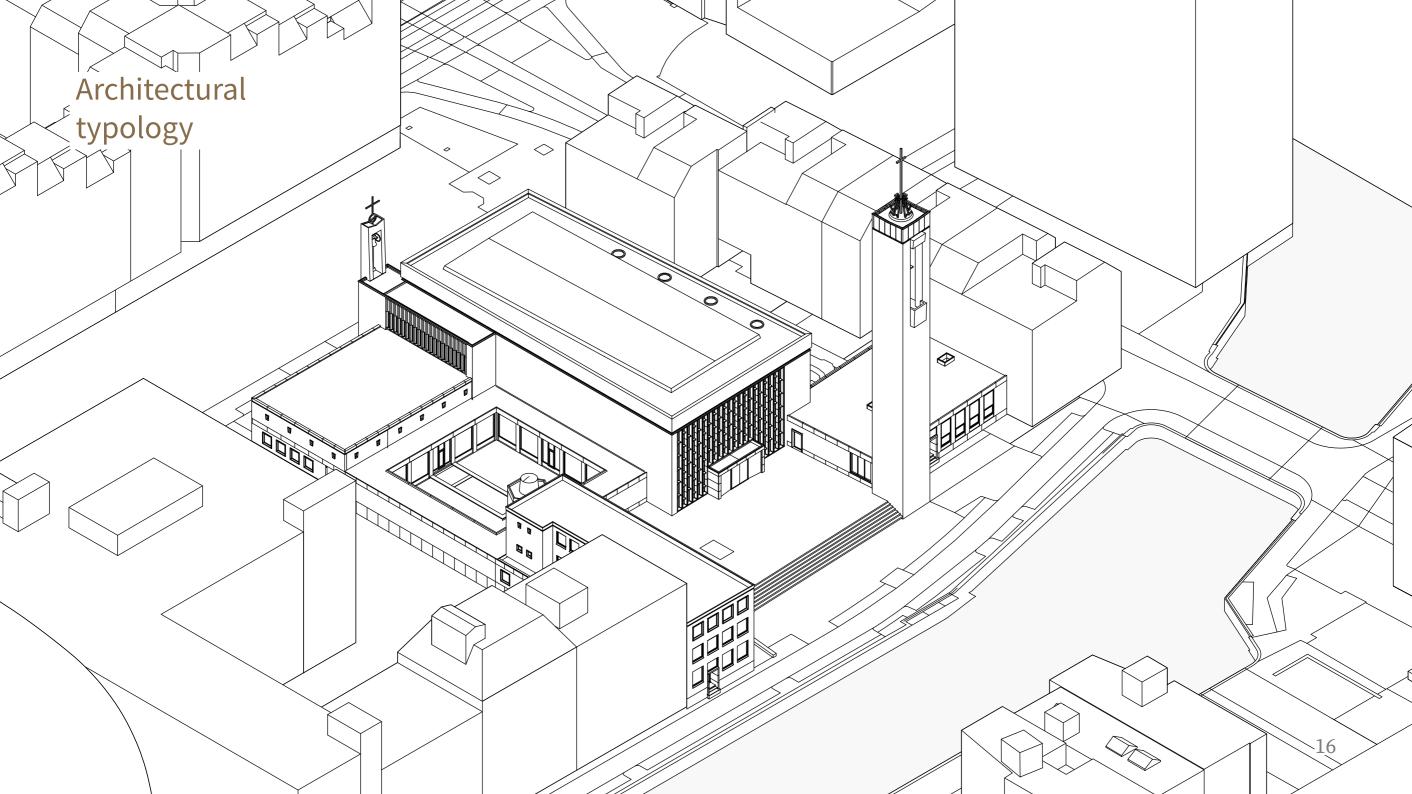
Typology

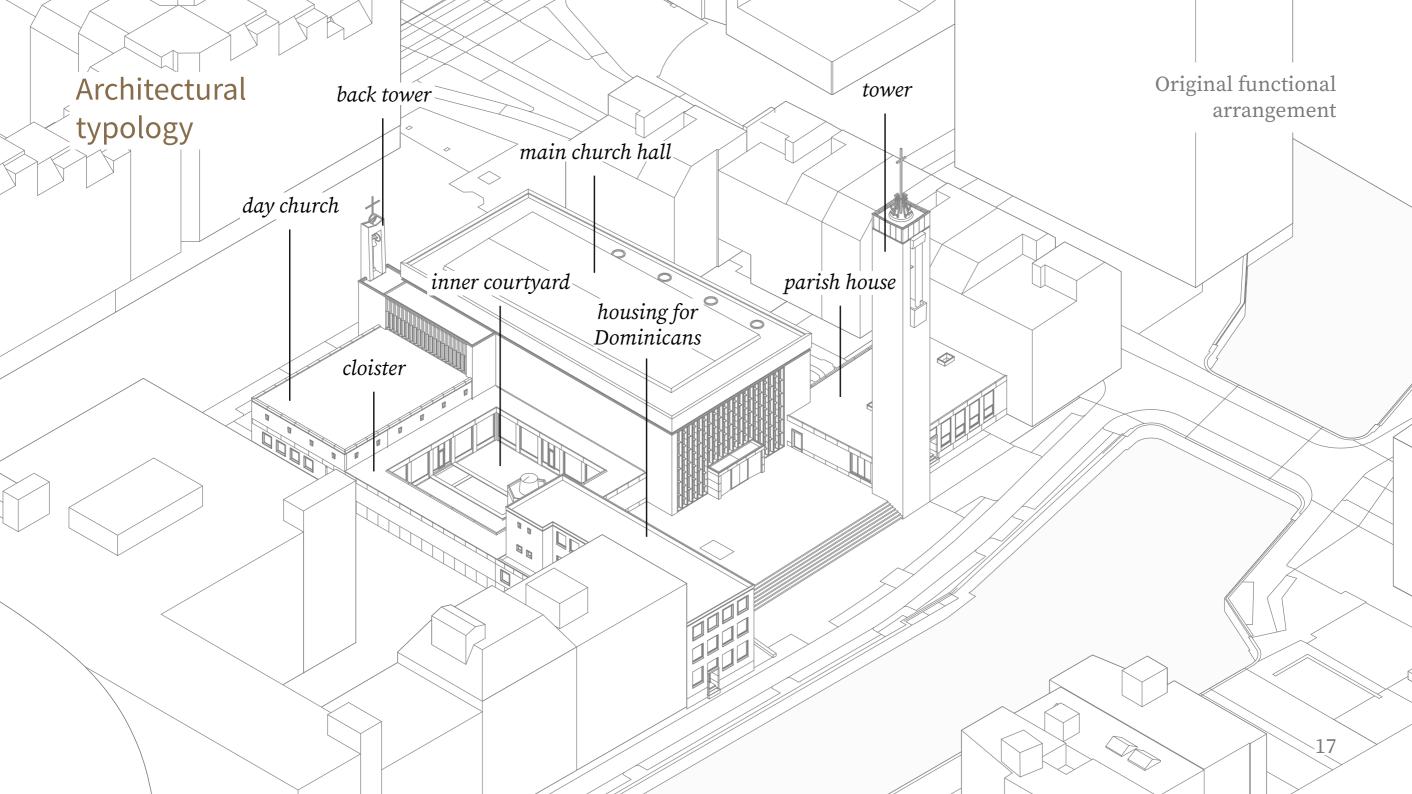
Dominican monastery: convent, church hall and parish house

Modern eclecticism



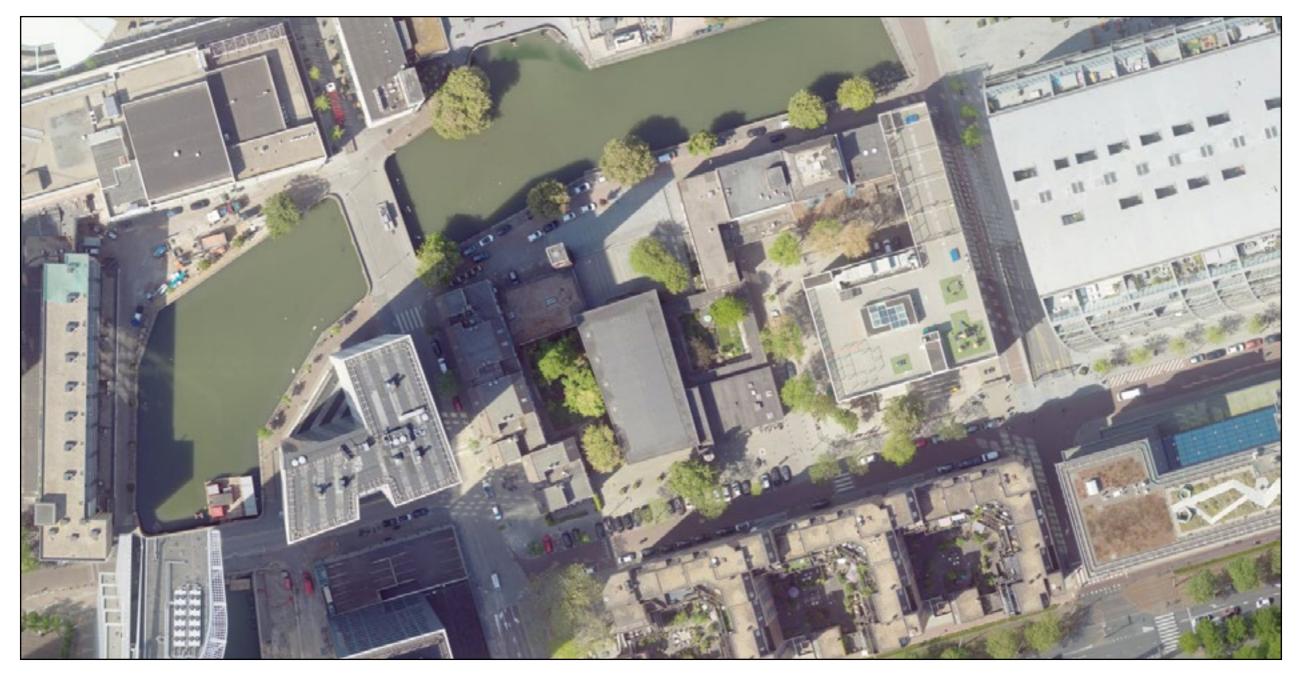
BADAN





Urban model 1:500

-





1. architectural historical reflection

- <image><text><text><text><text>
- 2. (digital) articles

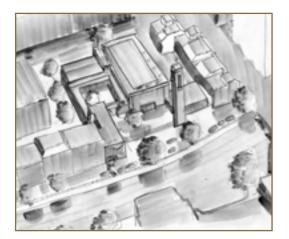








4. personal stories from the church community

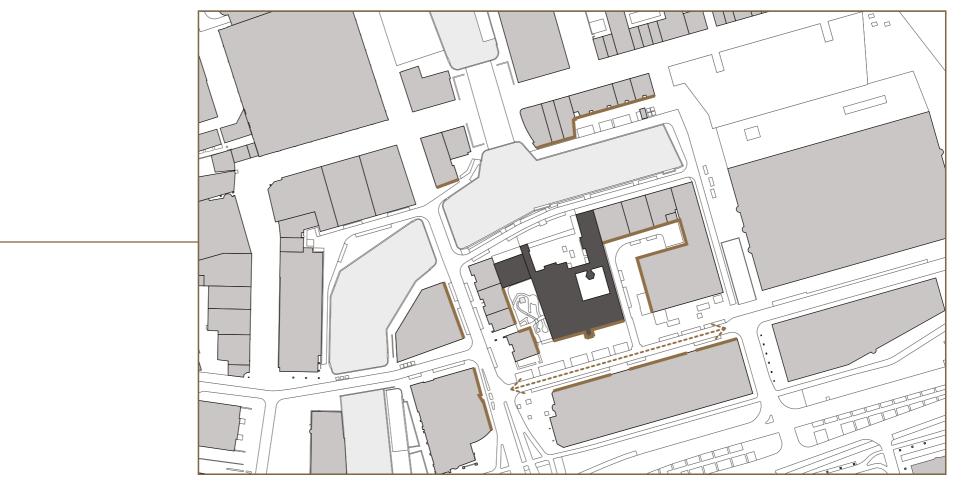


1. seclusion and openess



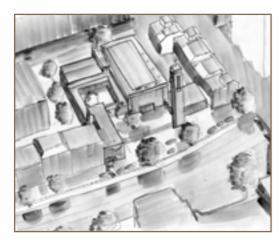
Central axe towards Vlasmarkt & Delftsevaart



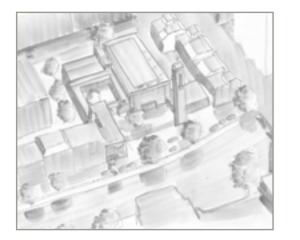


The backside of Het Steiger is surrounded by backsides of other buildings



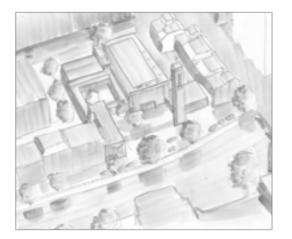


1. seclusion and openess



1. seclusion and openess

2. art value of the building



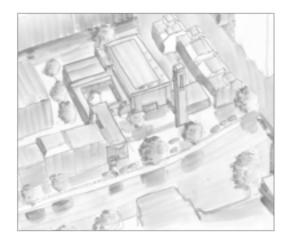
1. seclusion and openess



2. art value of the building



3. open space plan and spatial transitions



1. seclusion and openess



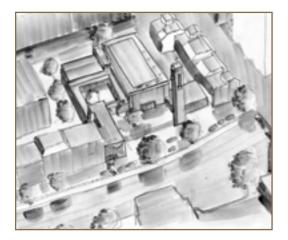
2. art value of the building



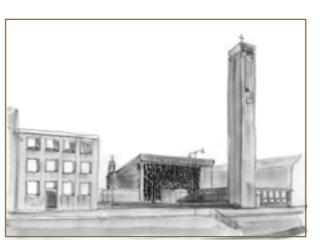
3. open space plan and spatial transitions



4. the integration of artworks



1. seclusion and openess



2. art value of the building



3. open space plan and spatial transitions



4. the integration of artworks

Societal challenges



The current shortage of art studios in Rotterdam





Dominican involvement with Het Steiger

Research

Research question

What architectural considerations, part of three distinct priories - St. Dominicus Church, Sainte-Marie de la Tourette, and the Dominican Motherhouse - can be integrated into the redesign of the St. Dominicus Church in Rotterdam, transforming it into a multifunctional art complex?

Research

1. St. Dominic Church (Het Steiger)



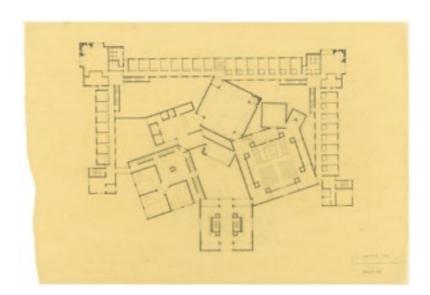
- 1. introverted environment 2. building as architectural canvas 3. hierarchy of importance
- 4. expressive space with artworks

2. Sainte-Marie de La Tourette



1. monastic and mystic tone through architectural style 2. theme of lighting 3. modulor and dimensions

3. the Dominican Motherhouse



1. interweaving user groups 2. equally significant spaces 3. architecture of connection

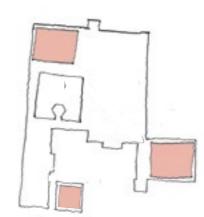
Recap of different layers

- 1. Historical layer: Het Steiger as post-war city icon
- 2. Societal layer: housing and art studio shortage
- 3. Urban layer: Part of a dense urban fabric
- 4. Values layer: national monument
- 5. Research layer: Dominican architectural themes

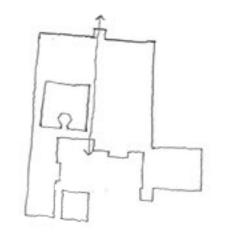
General design goals



1. introduction of 'a new heart' of the building

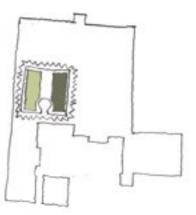


2. diversity of 'independent functioning' art studios



3. equal entrances + new corridor

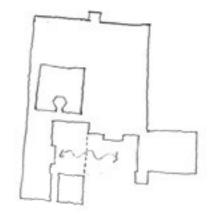
General design goals



4. preserve the inner courtyard



5. make use of the open floor plan for exhibition space



6. clarify the residential and public zone

Design brief

Het Steiger will be transformed into a multifunctional art complex.

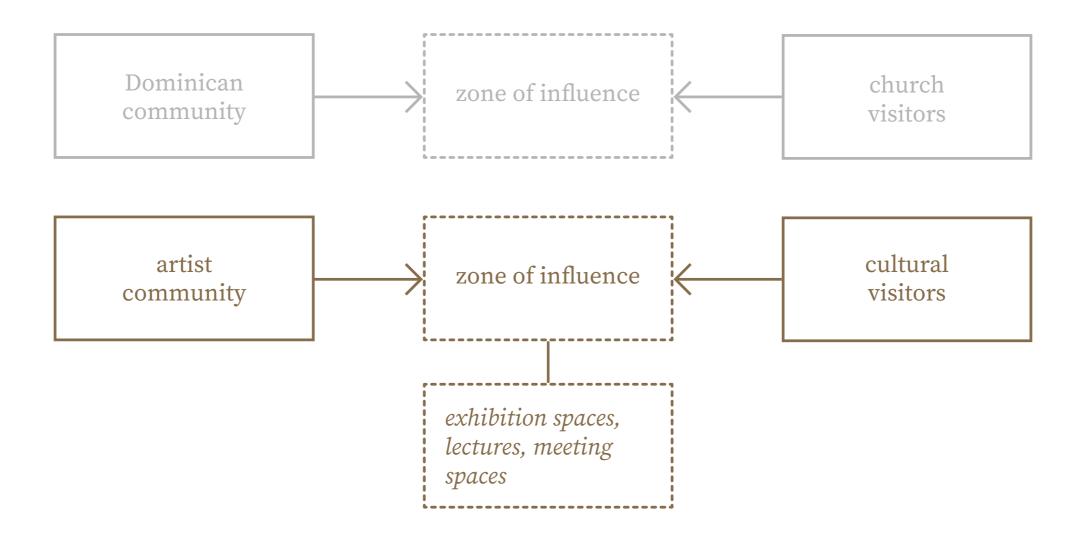
The building houses artists-in-residence and a dynamic public area for visitors.

This public area involves:

- a grand café
- exhibition spaces
- service area

Art Complex Het Steiger aims to offer talented art students from the Willem de Kooning academy the opportunity to participate in an annual artists-and-residents program.

Design brief



Design brief

3 programmatic zones

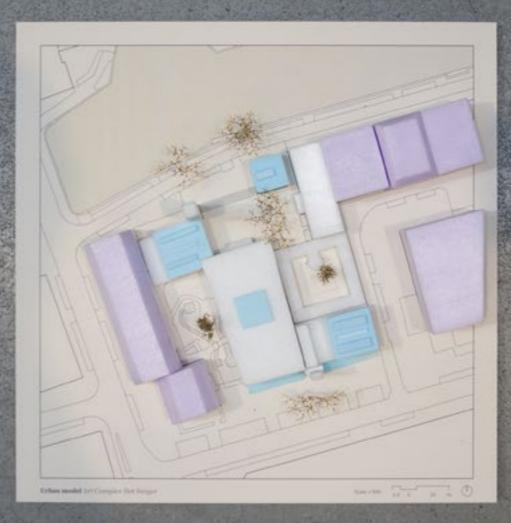
public area for visitors
working spaces for artists
residential area for artists

Design strategy

Main themes in this design project

 collection of interventions
recognizable new layer: timber
design solutions that complement
search for a personal ornamental architectural language

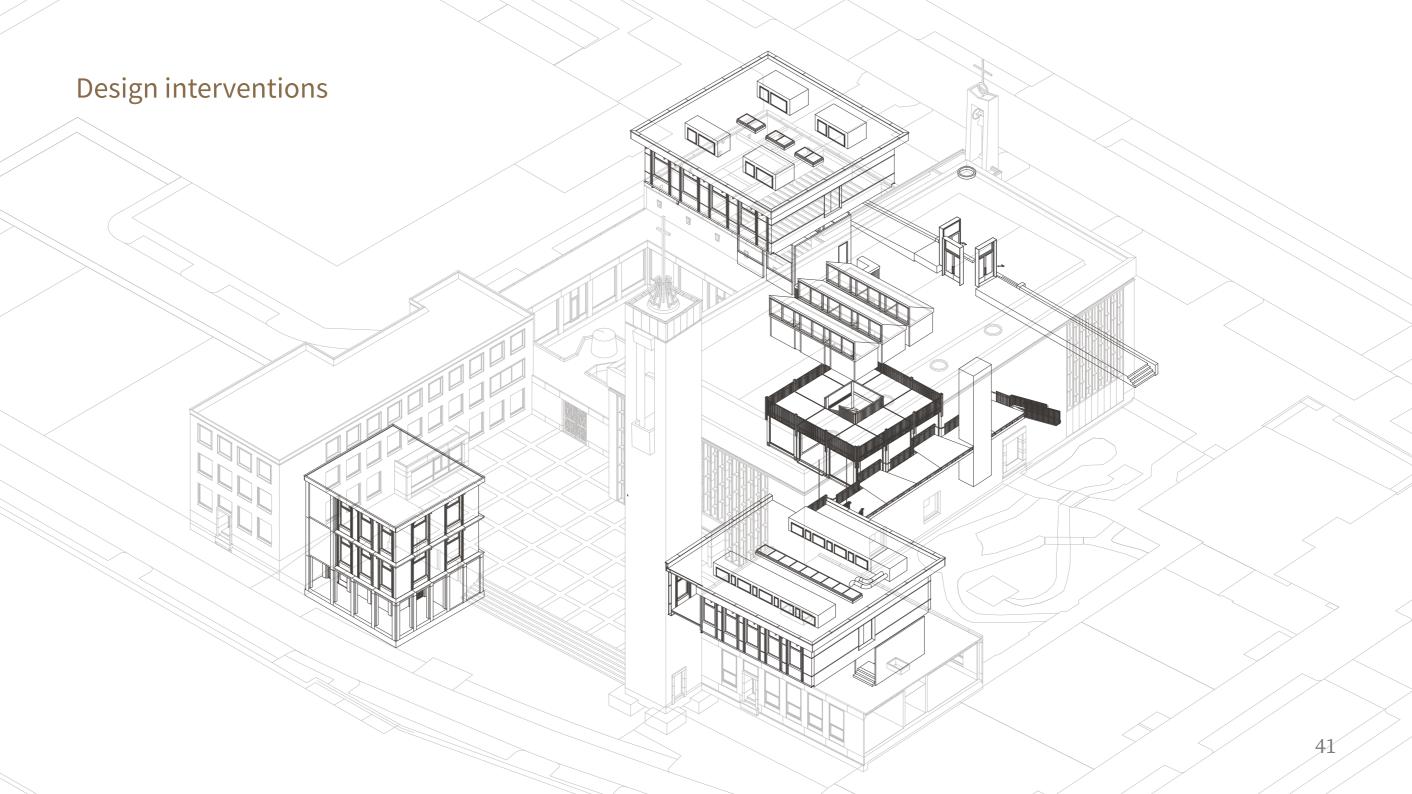
Design interventions

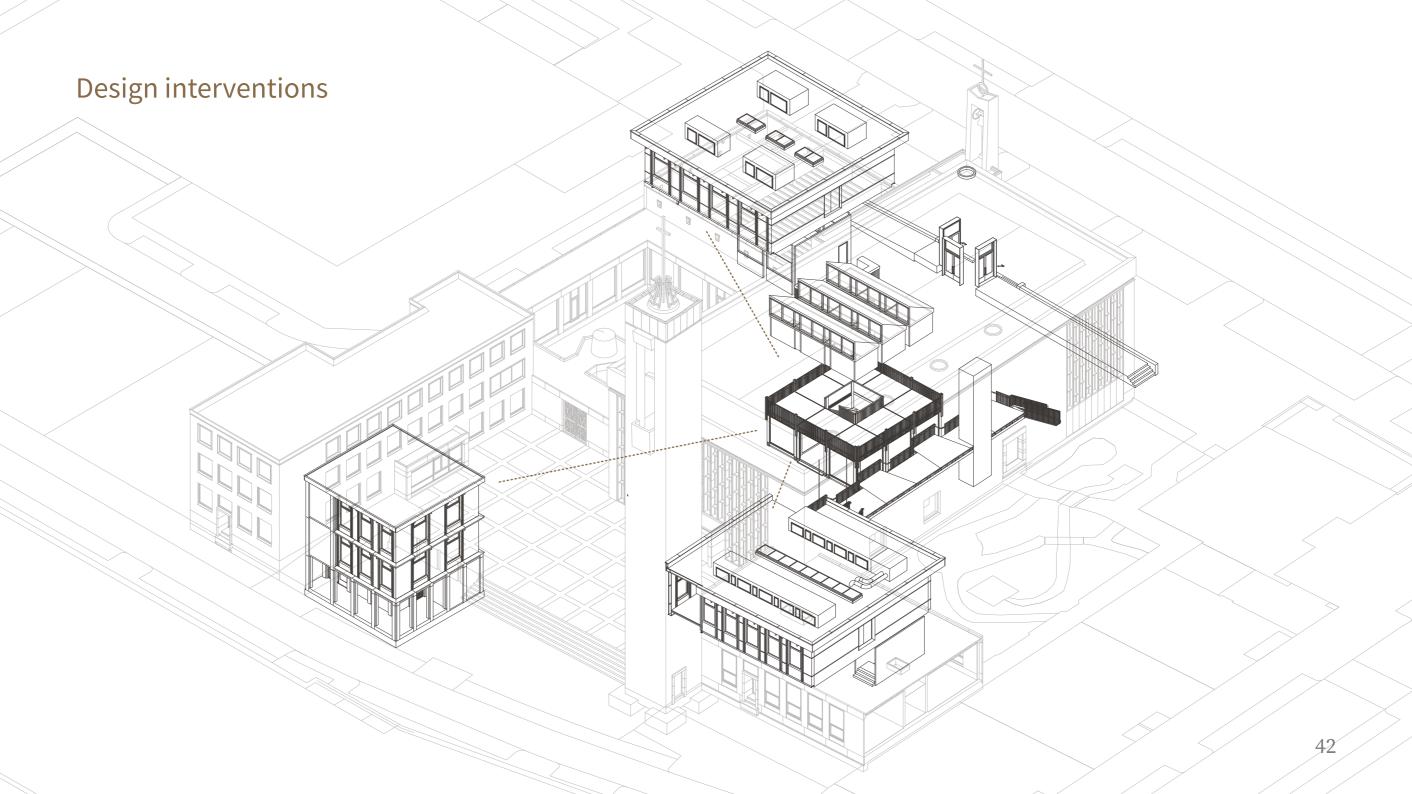


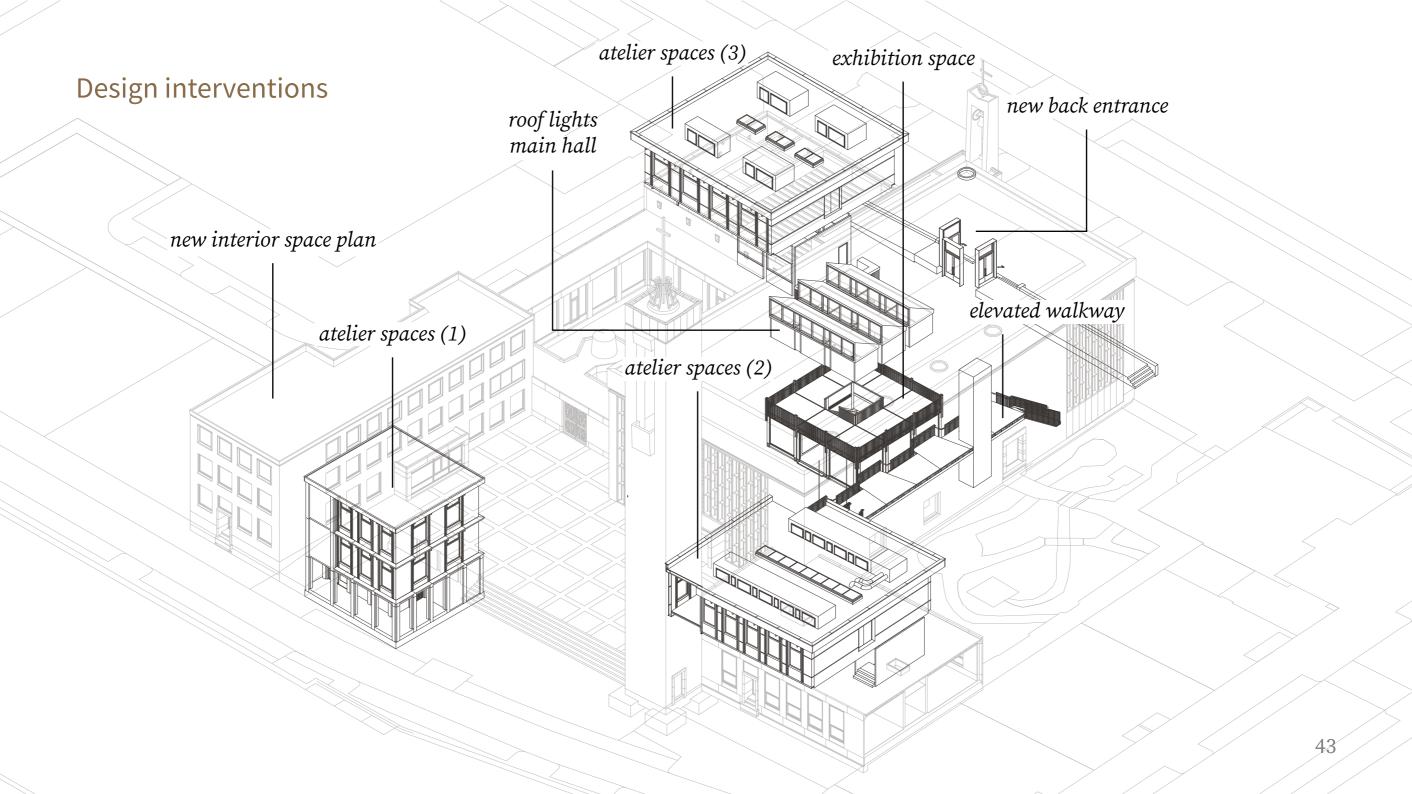
Urban model 1:500

Design interventions

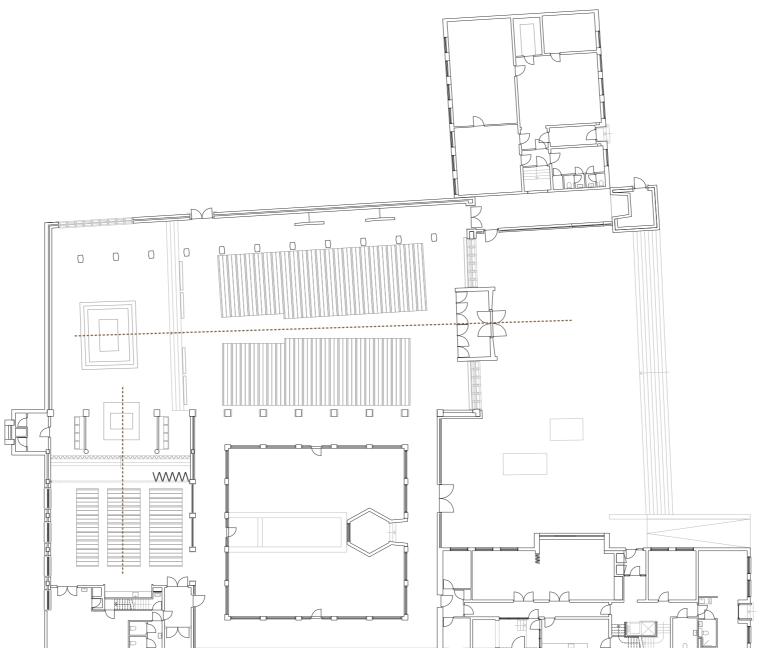
The former back as a new front







Functional overview

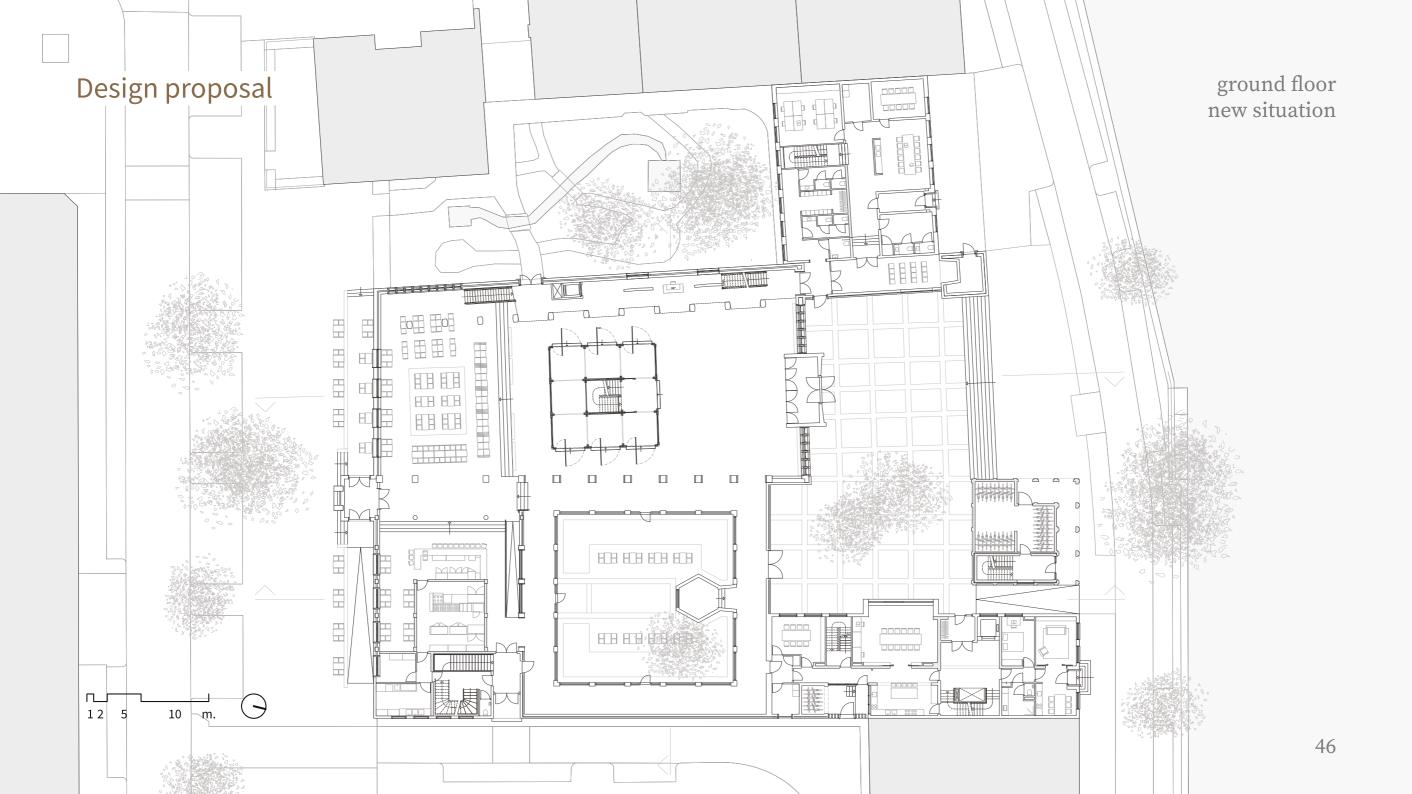


ground floor old situation

12 5 10 m.



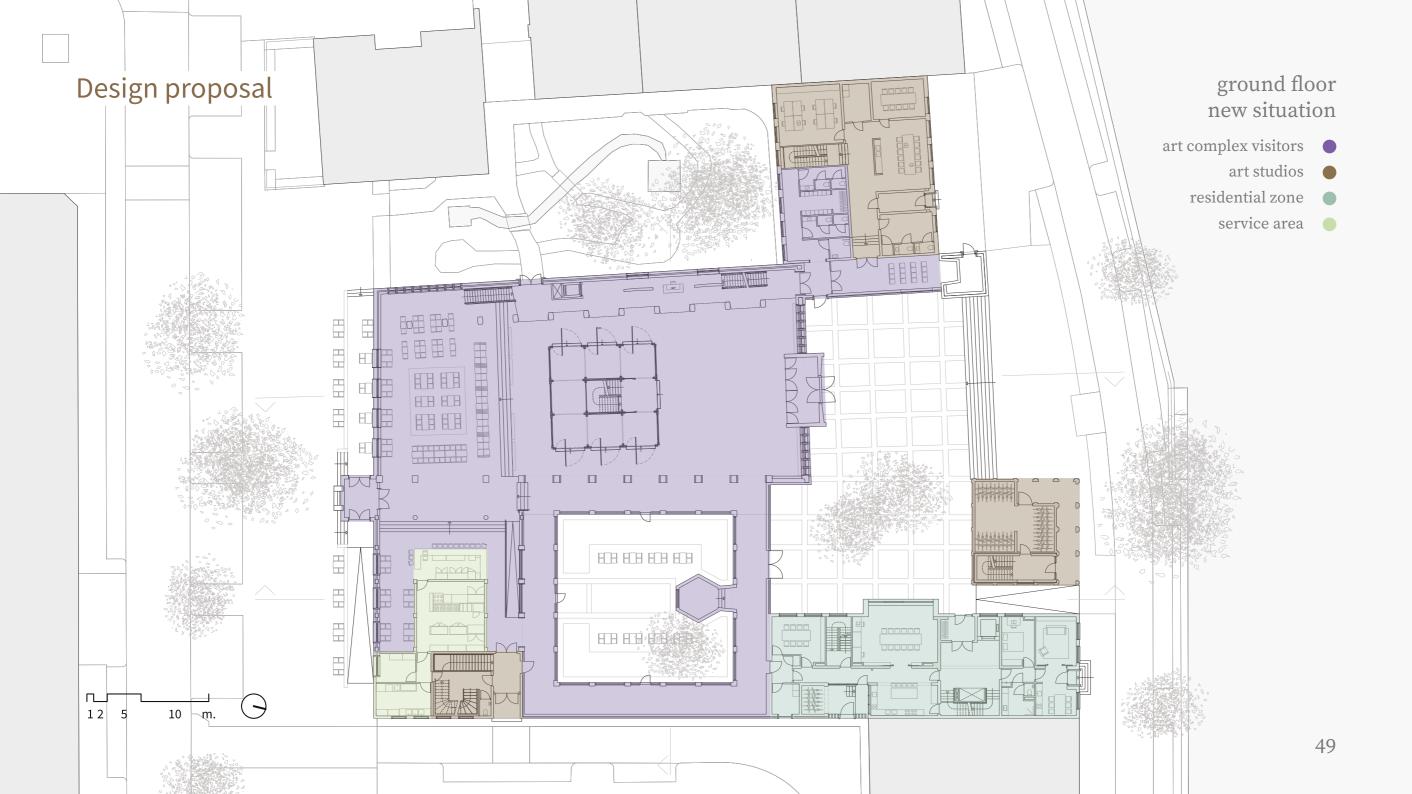
The transition zone between the main church hall and the day church hall, 2023



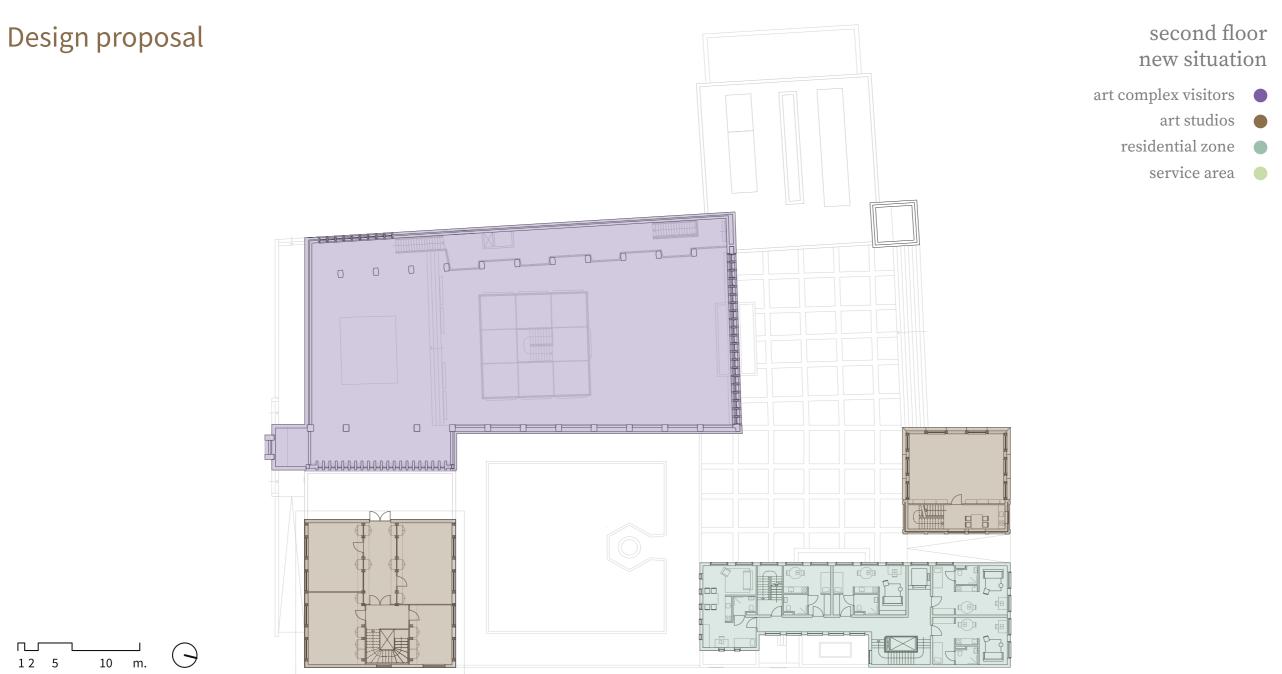


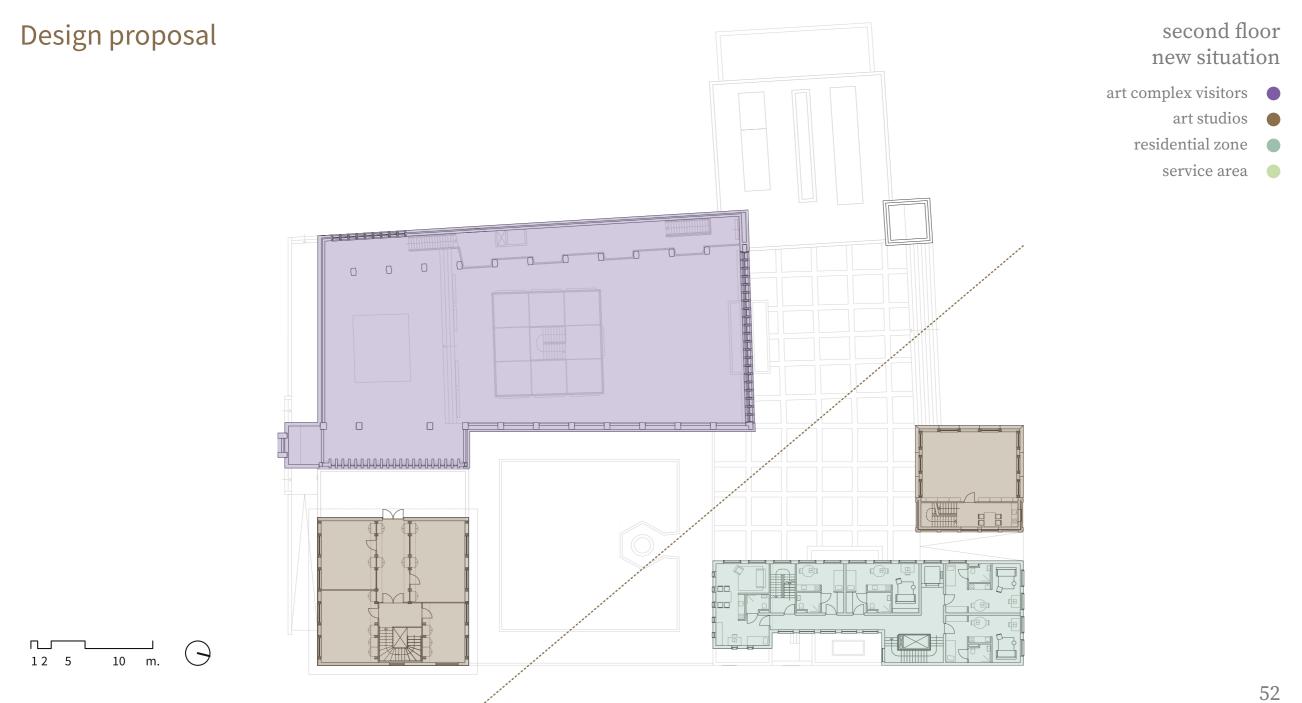
Ely Cathedral interior choir stalls







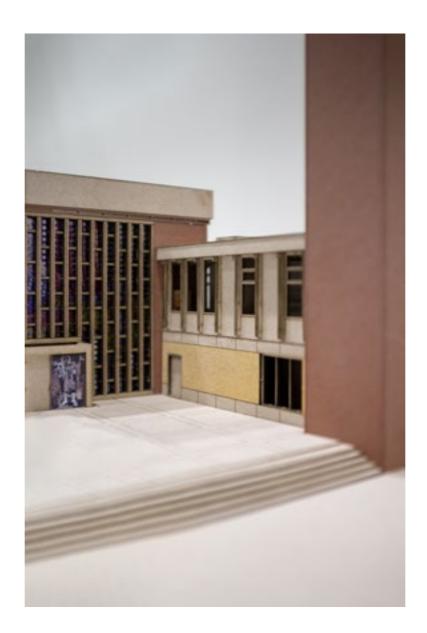












Forecourt with new roof addition

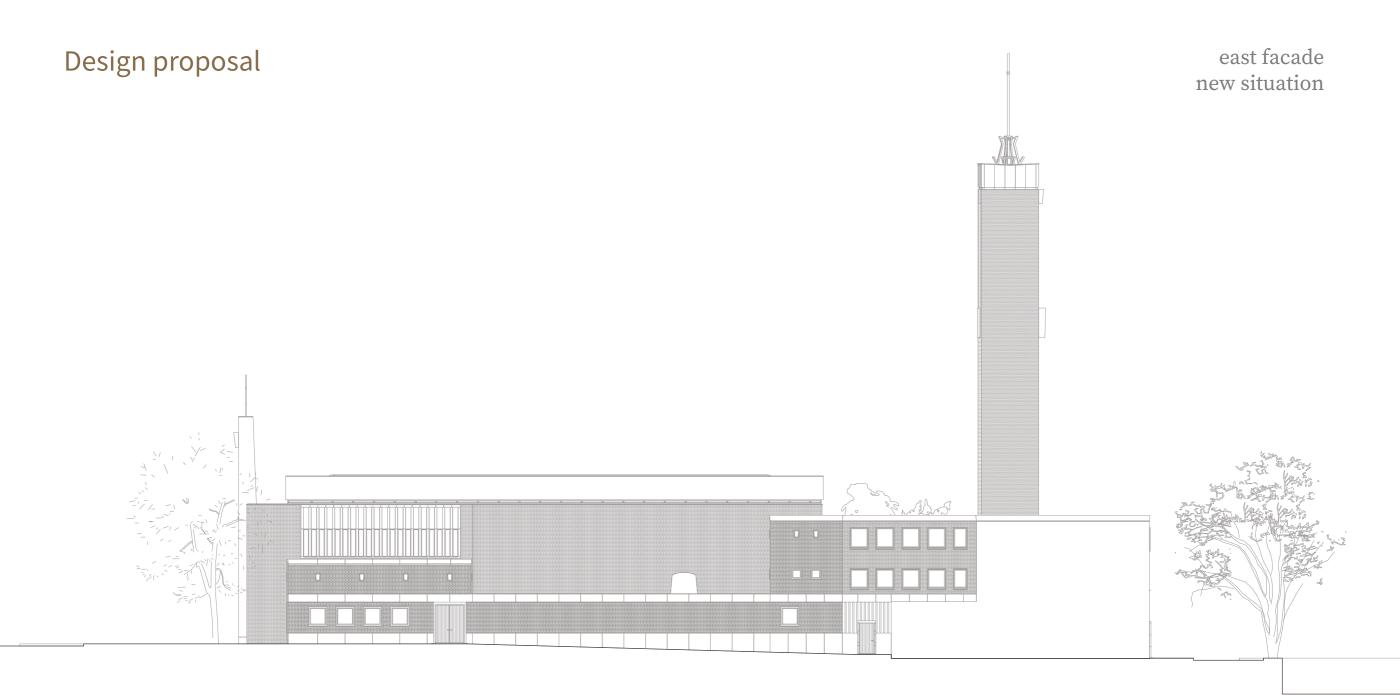


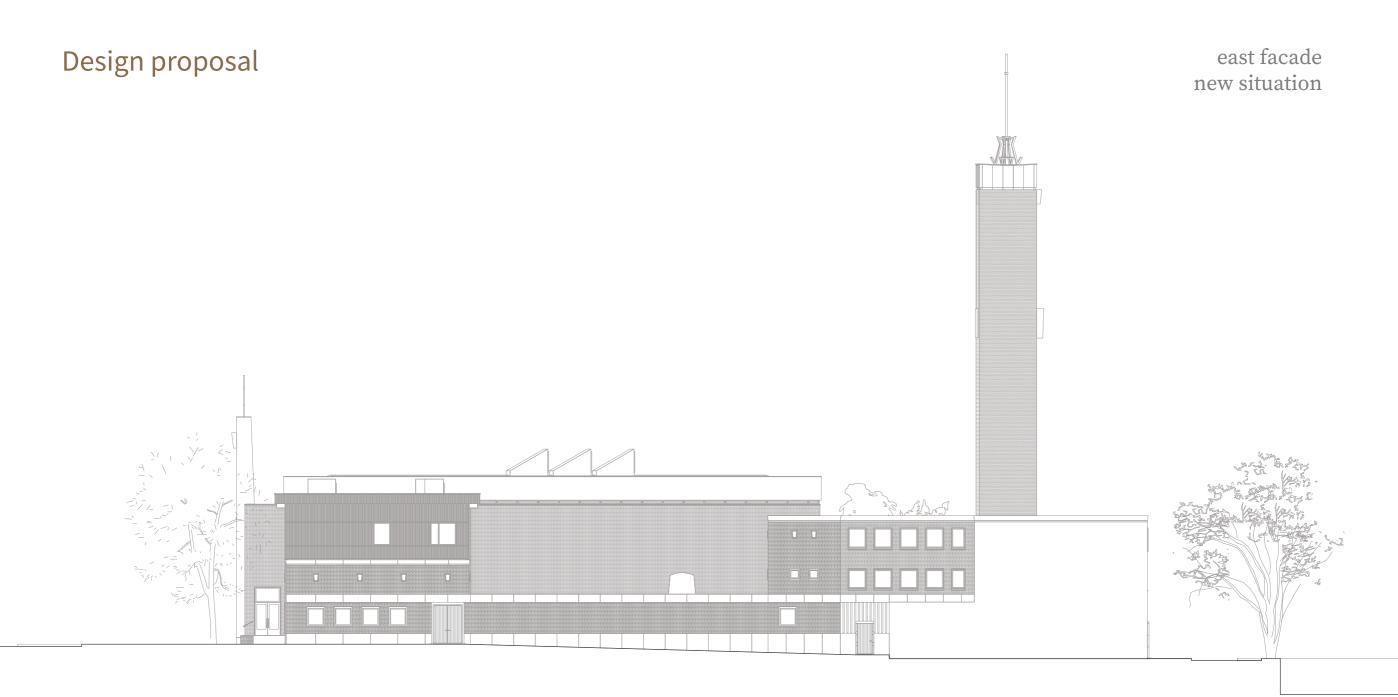
The new facade aligns with the existing facade

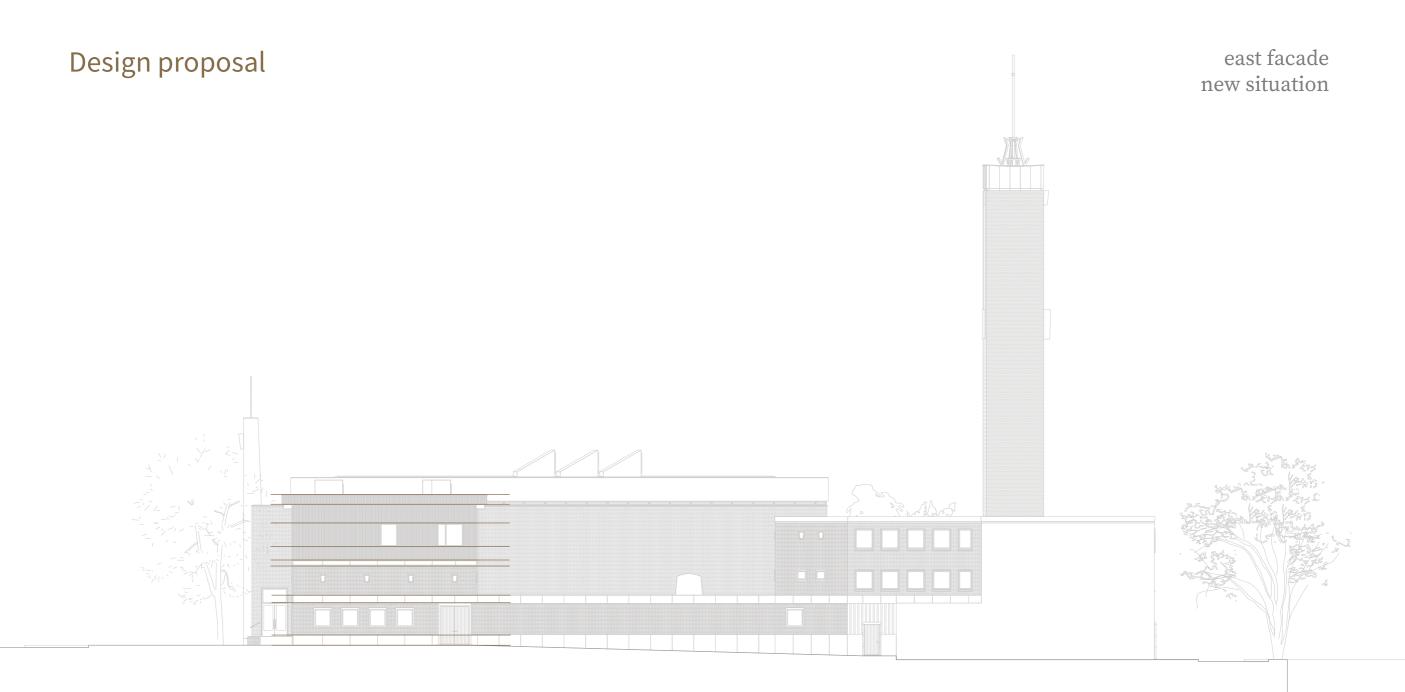


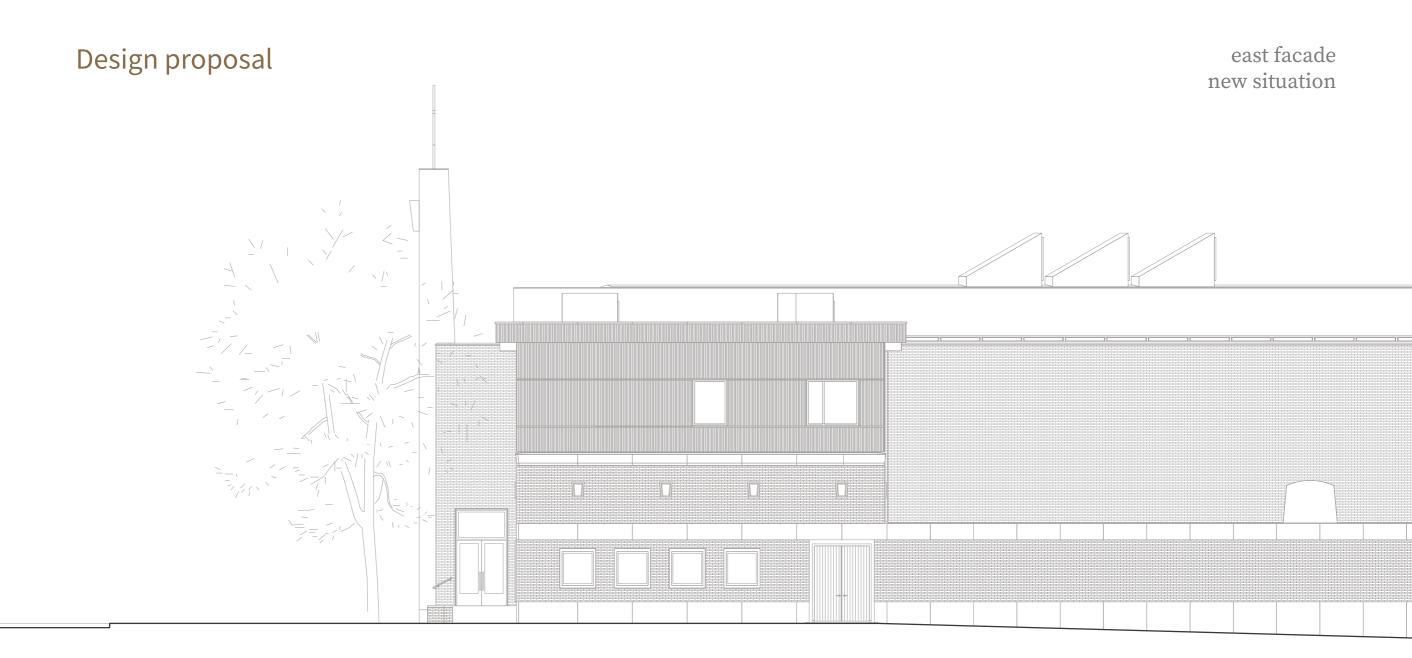
Facade as functional expression

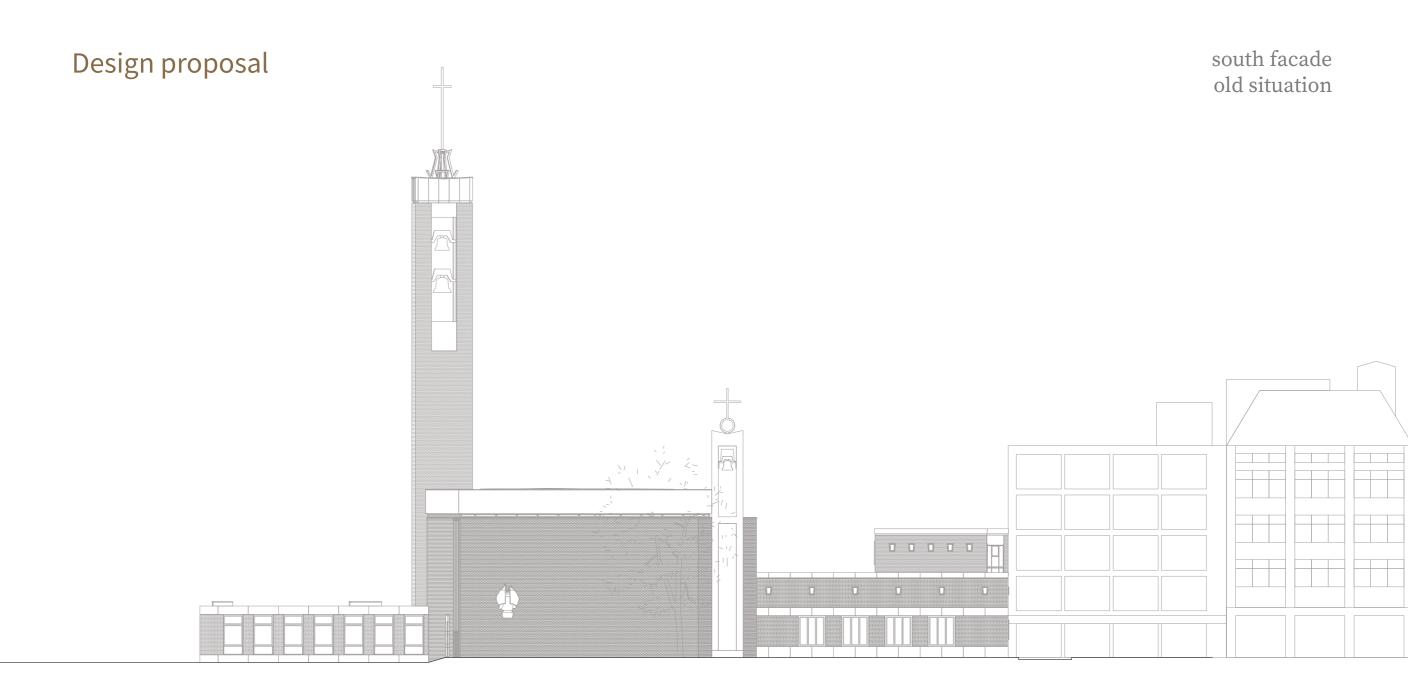






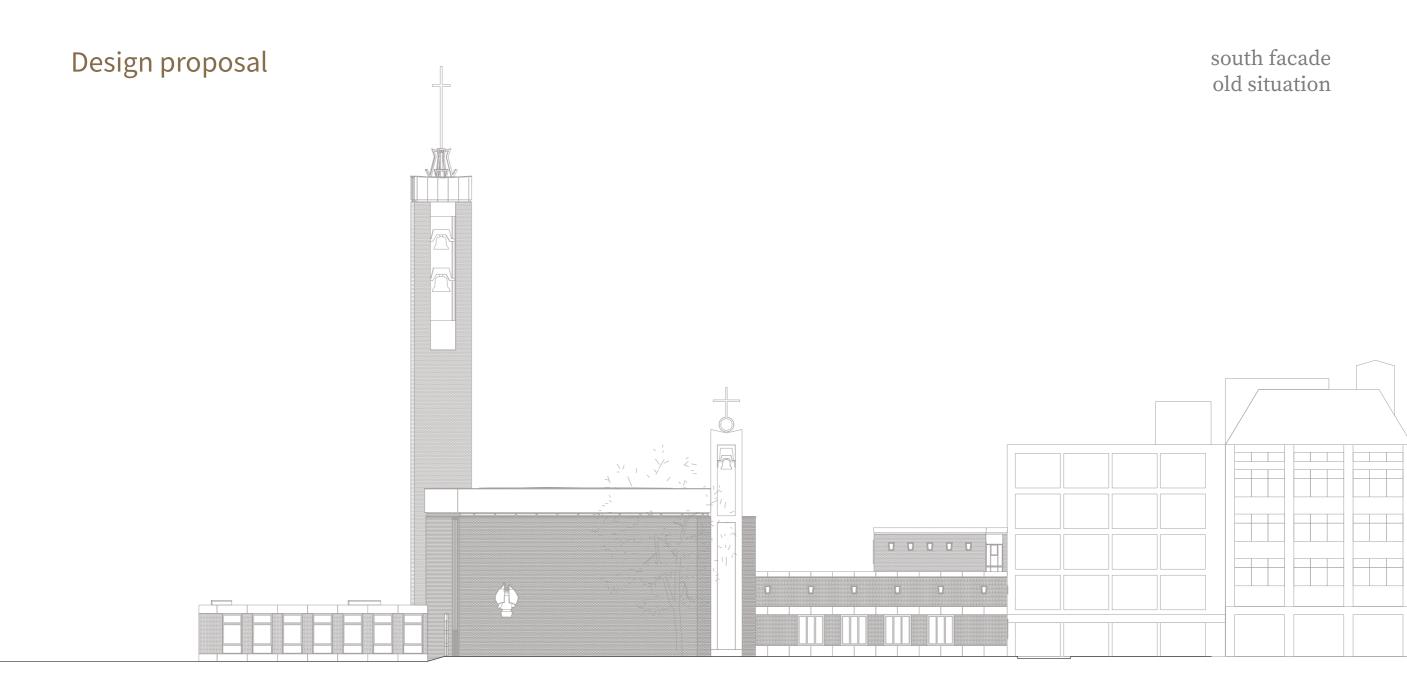


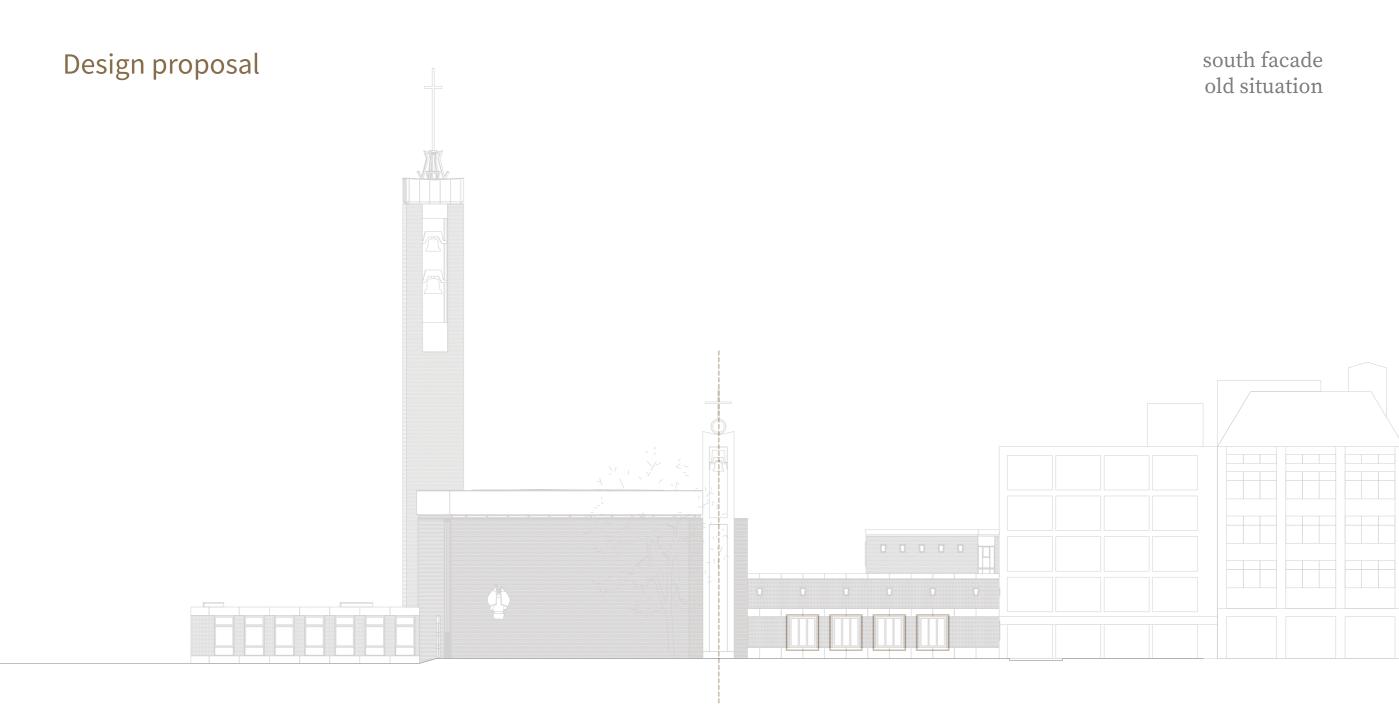












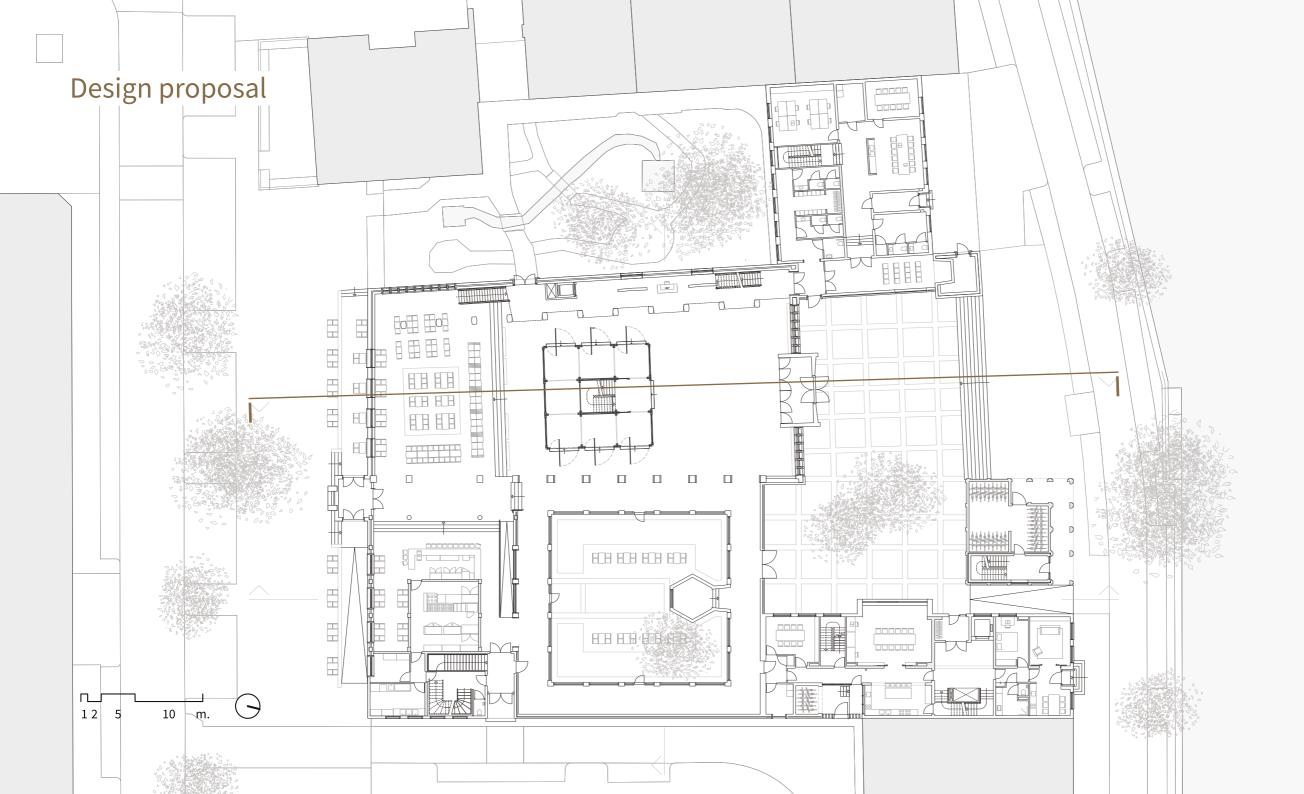




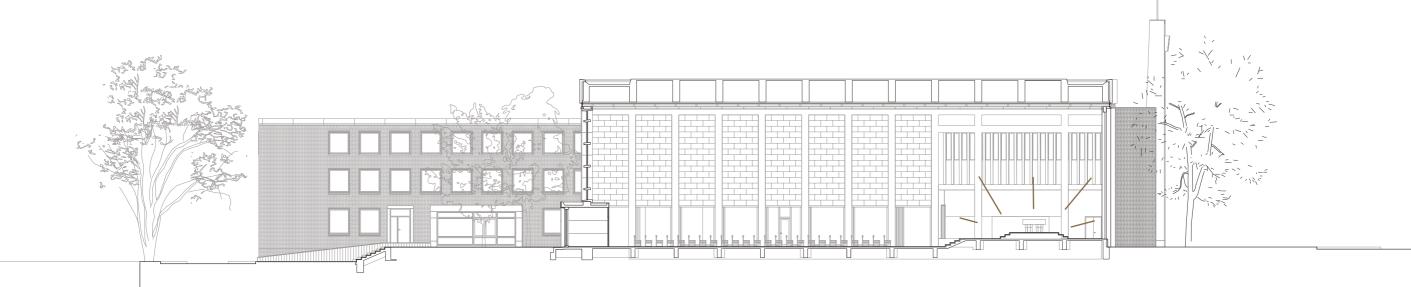




South facade with new terrace

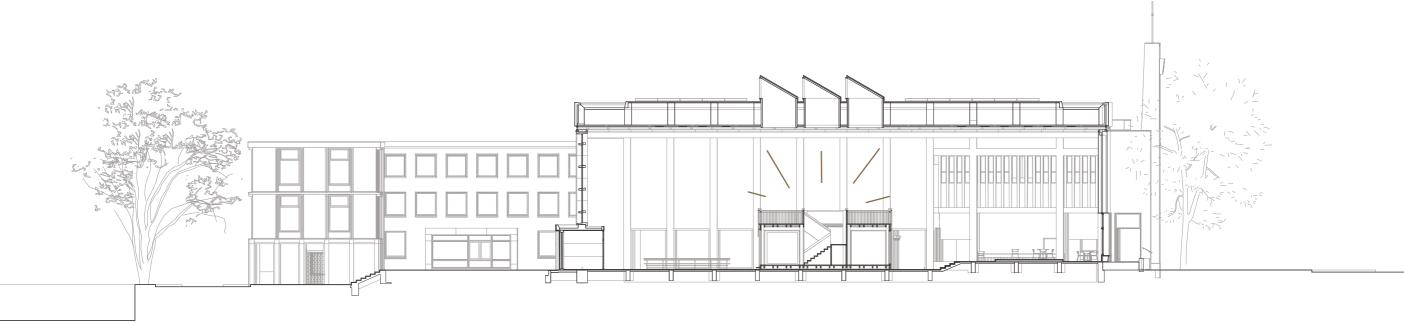


longitudinal section church hall old situation

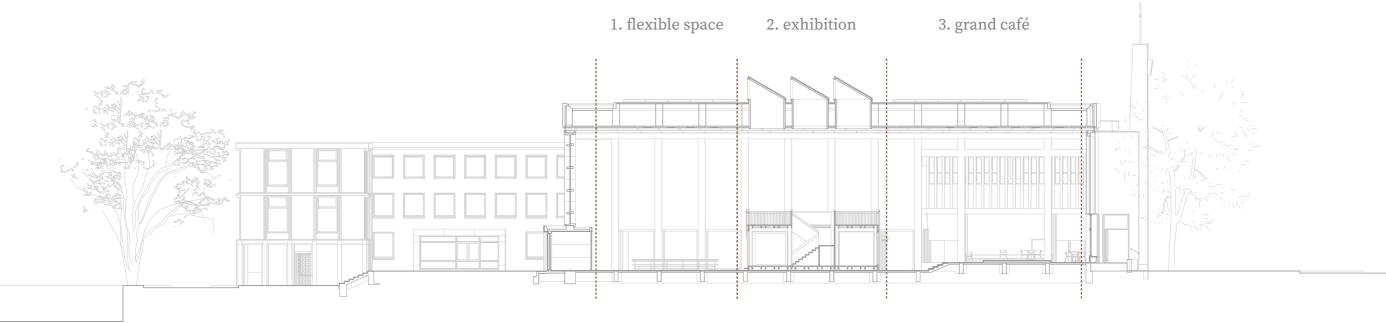


74

longitudinal section church hall new situation



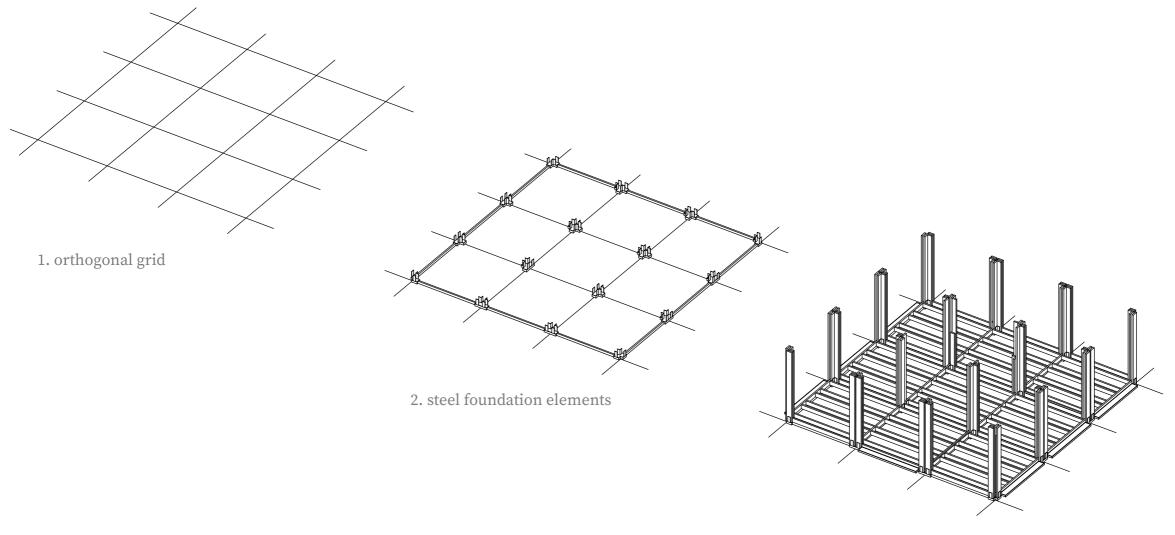
longitudinal section church hall new situation



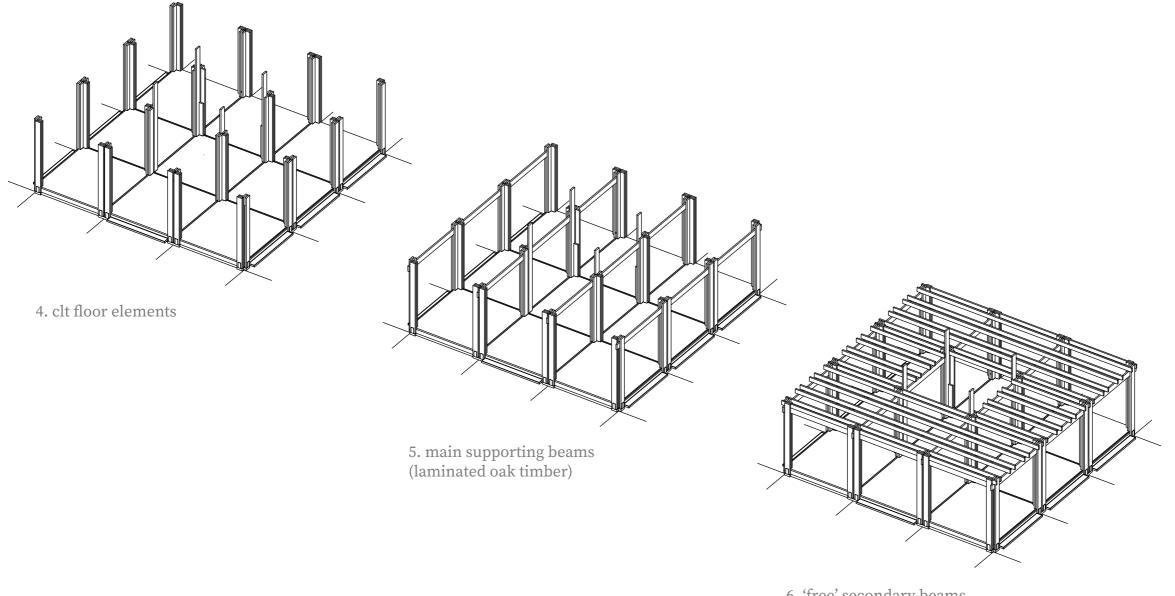


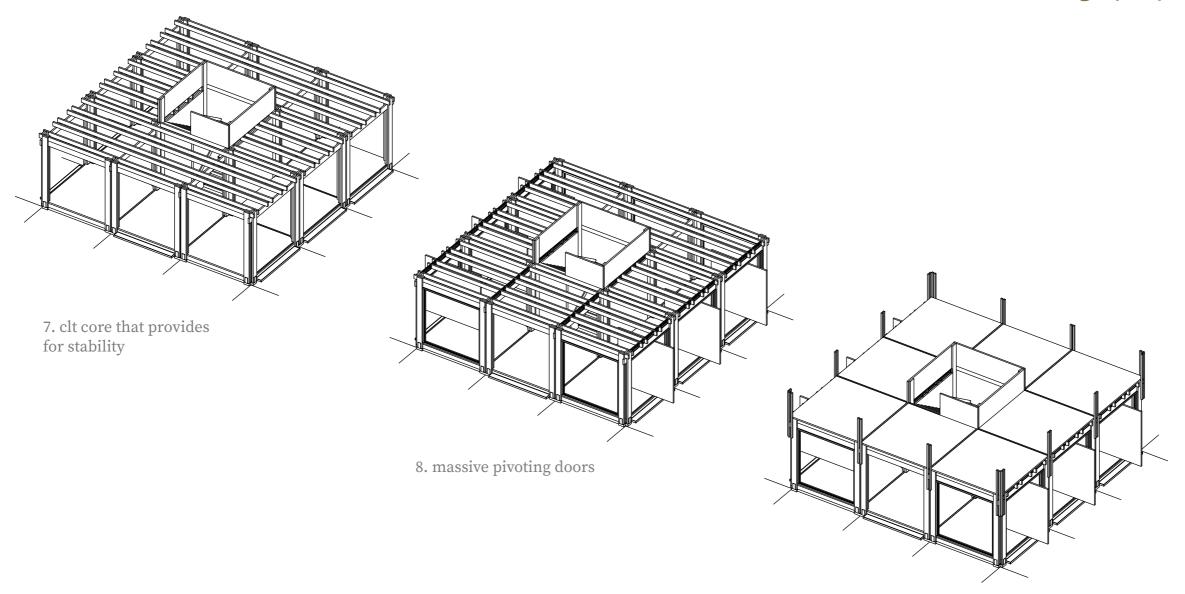
exhibition space

exhibition space

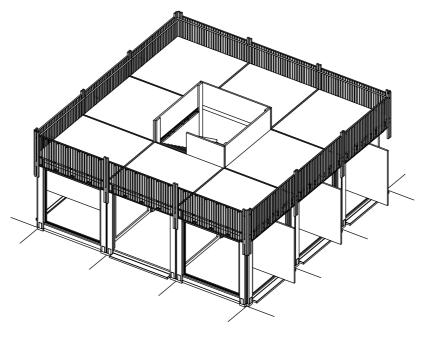


3. double oak beam system with oak floor beams





9. clt floor elements and secondary columns for balustrade



10. attachment of steel balustrade



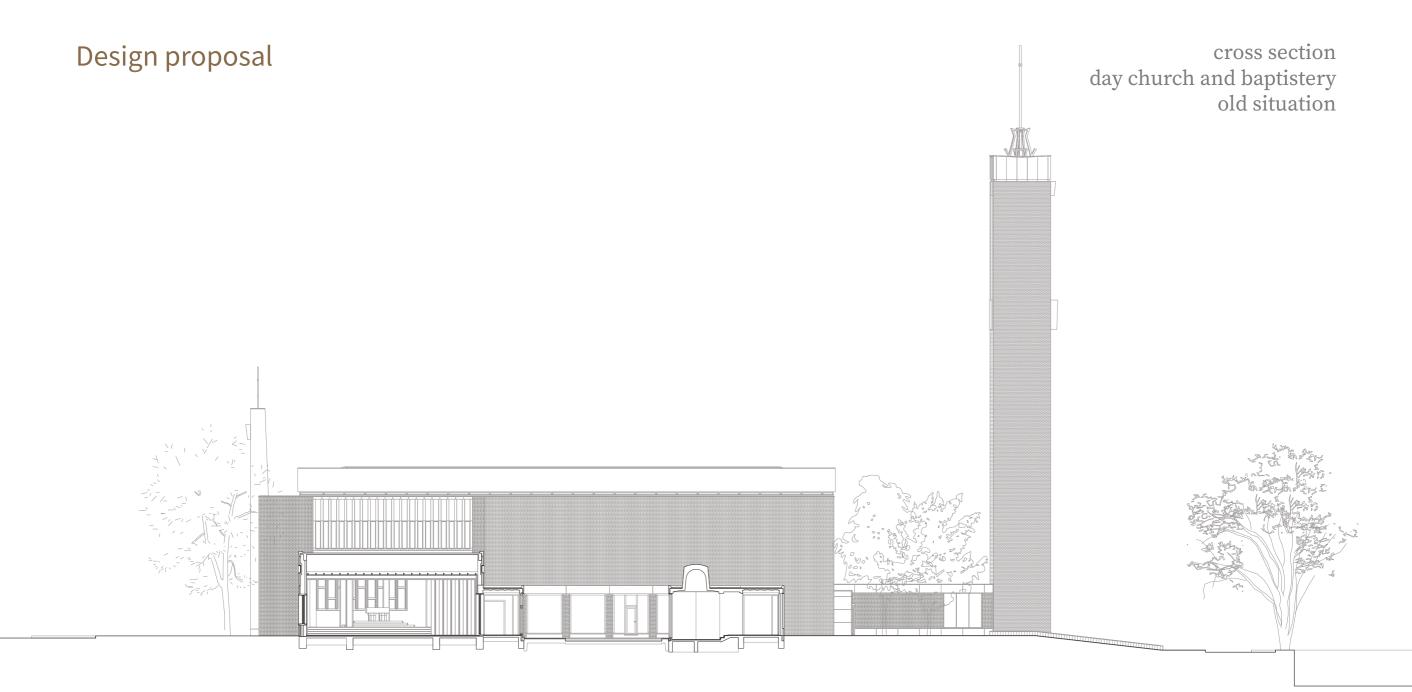
exhibition space seen from the main entrance

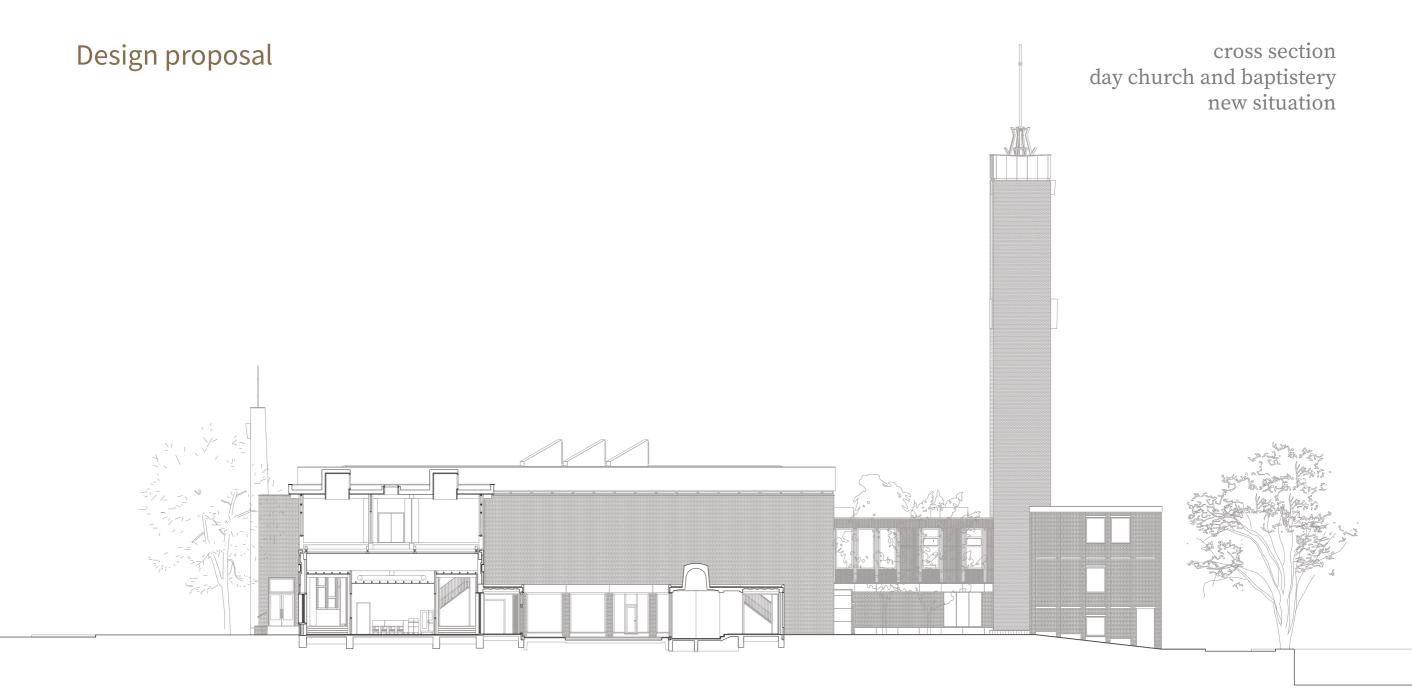


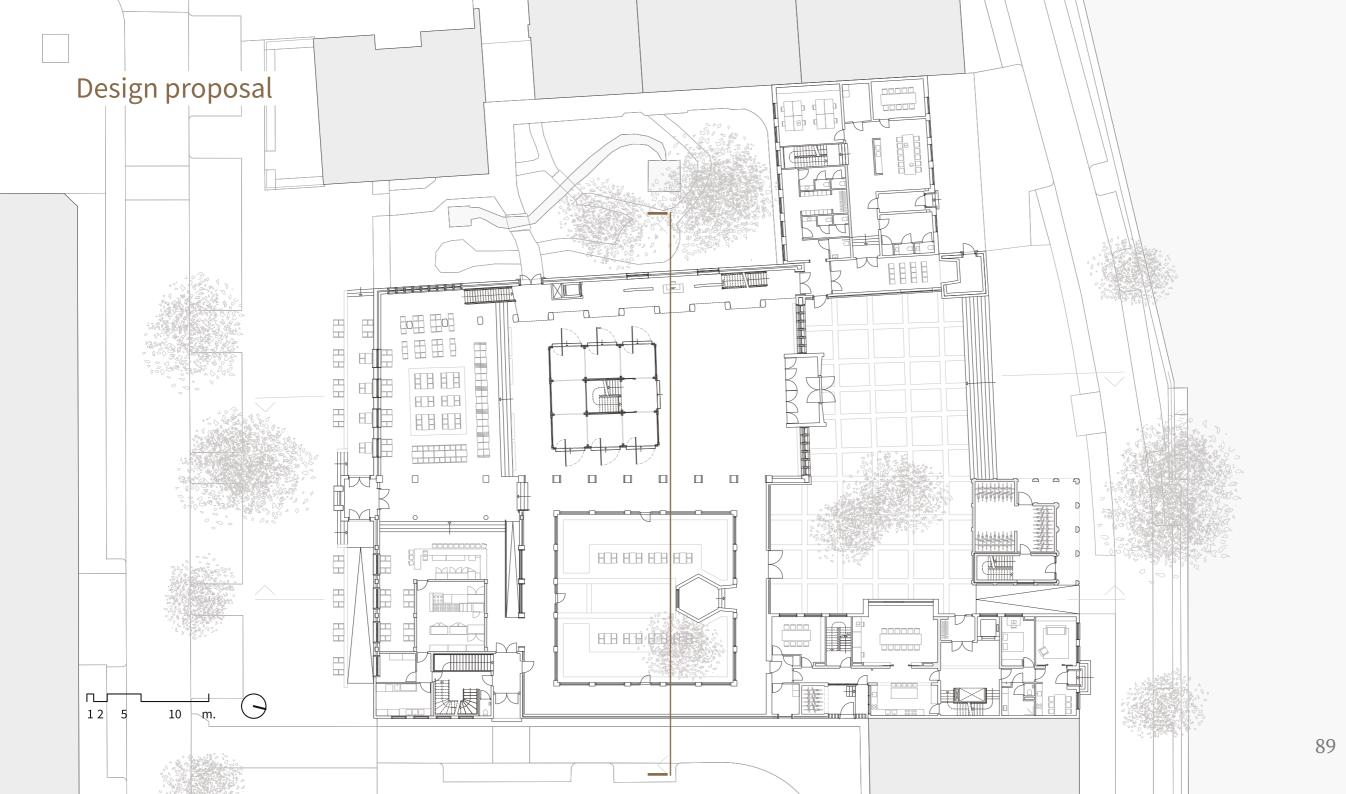
exhibition space seen from the café area



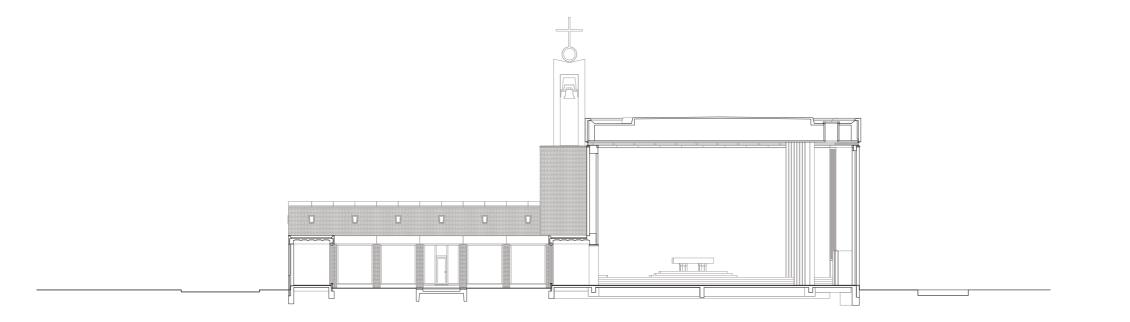
view from the top of the exhibition space





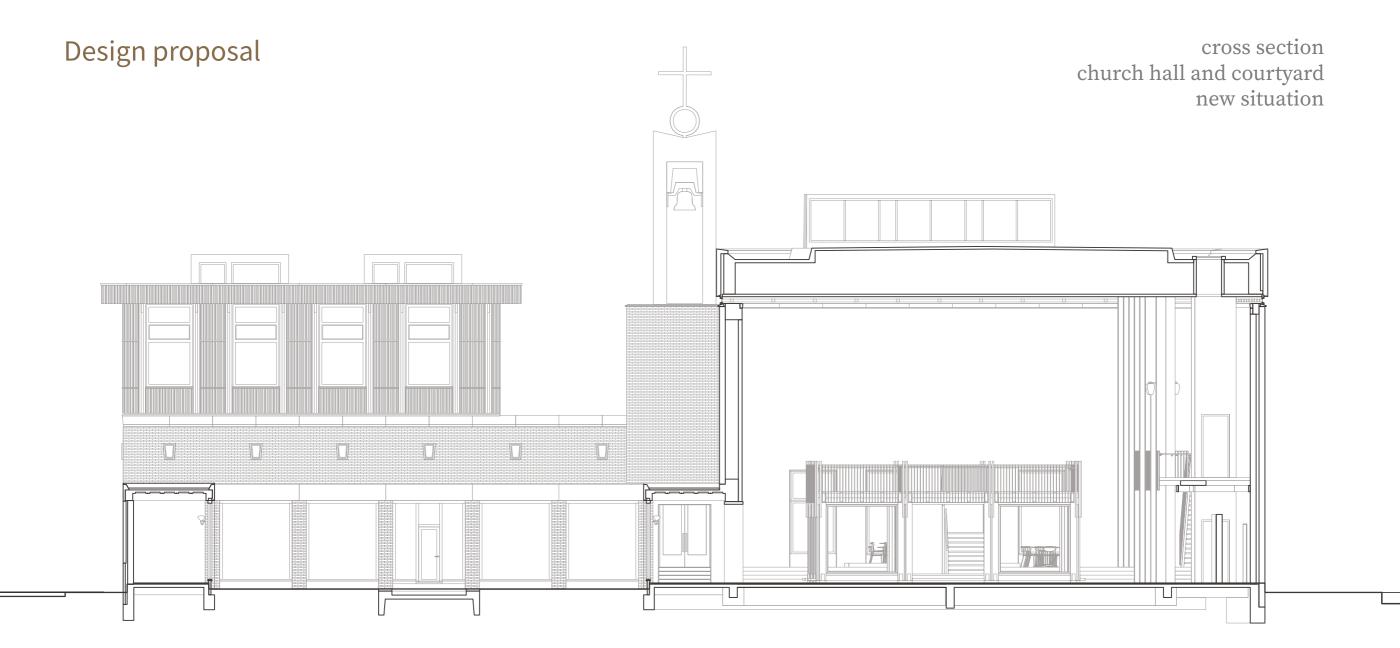


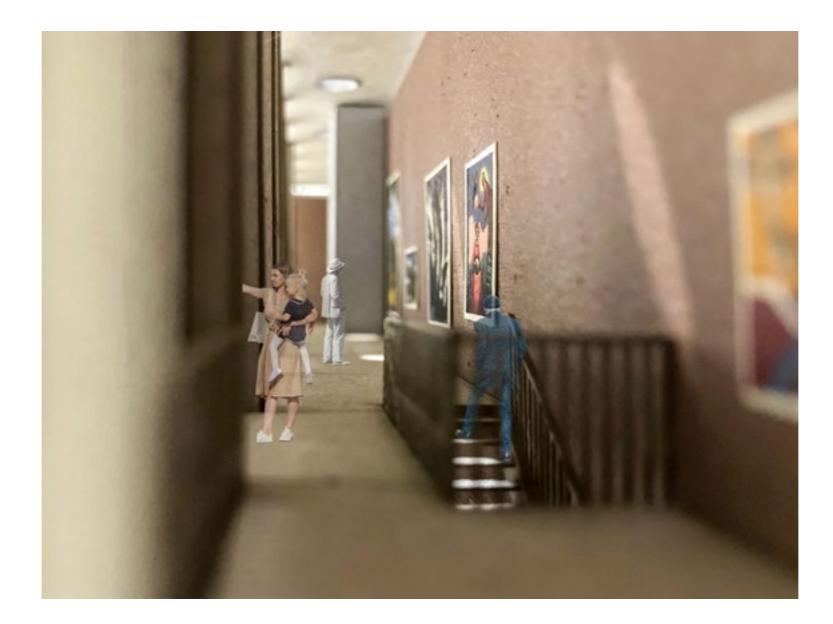
cross section church hall and courtyard old situation



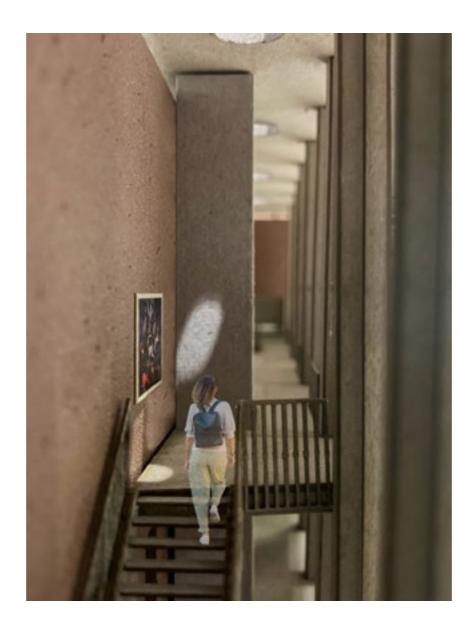
cross section church hall and courtyard new situation







elevated walkway from north

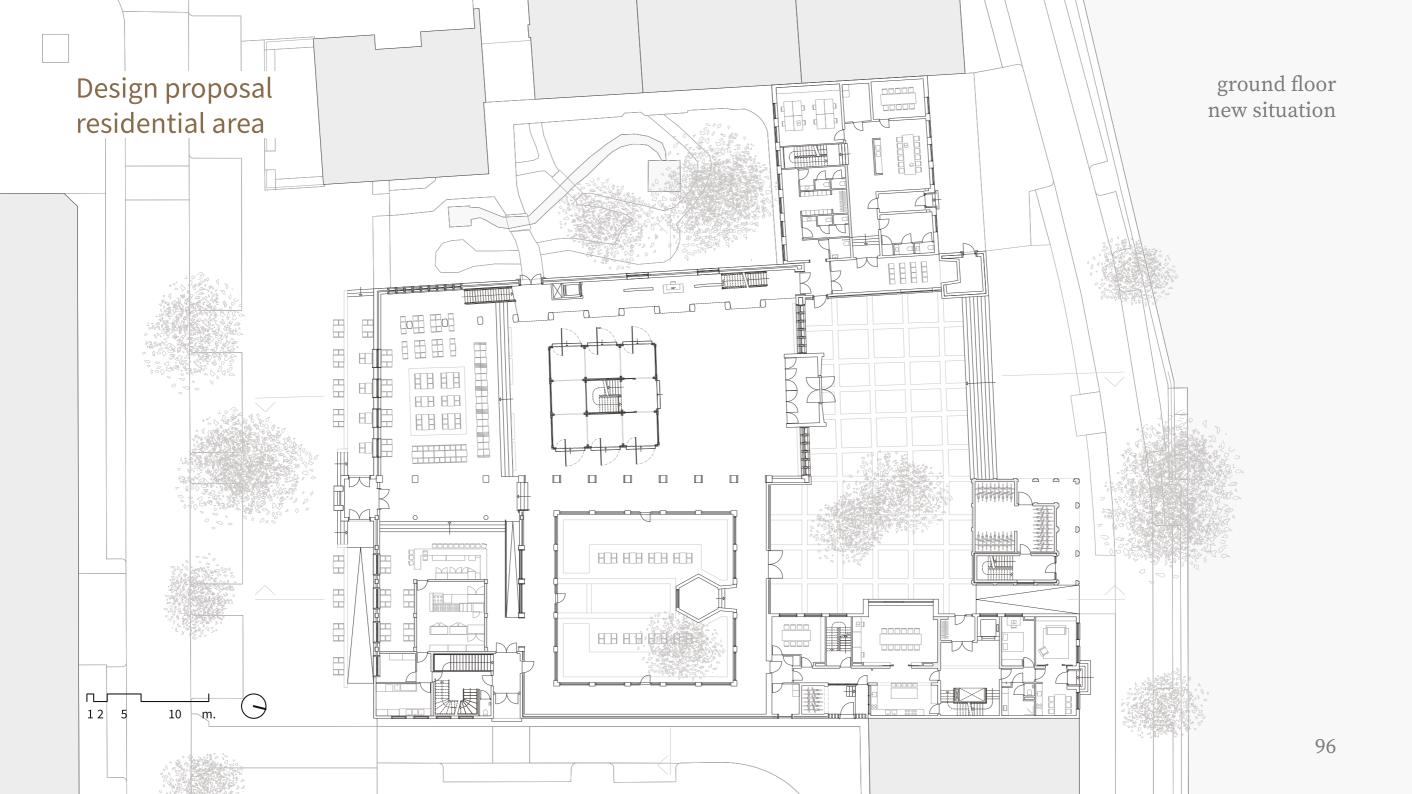


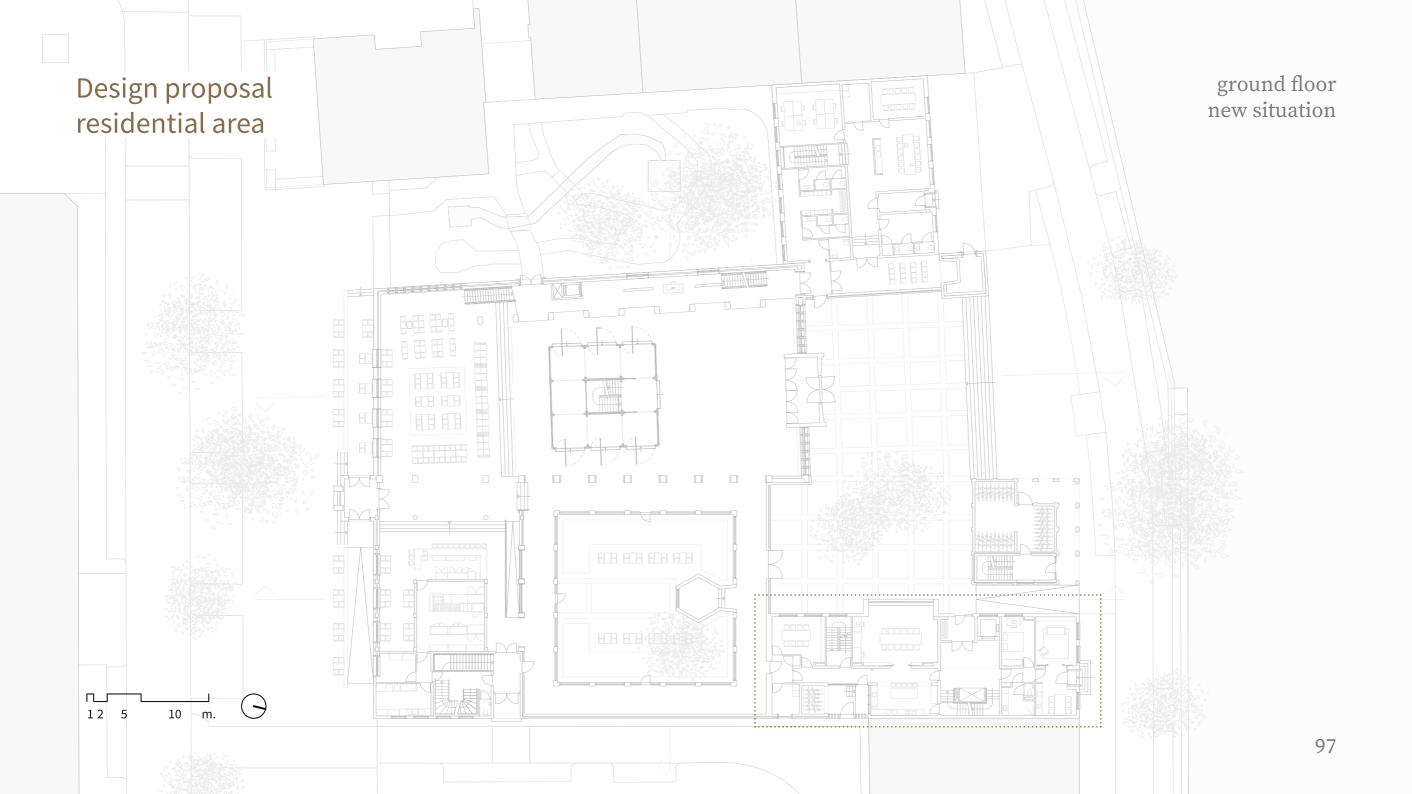
elevated walkway from south

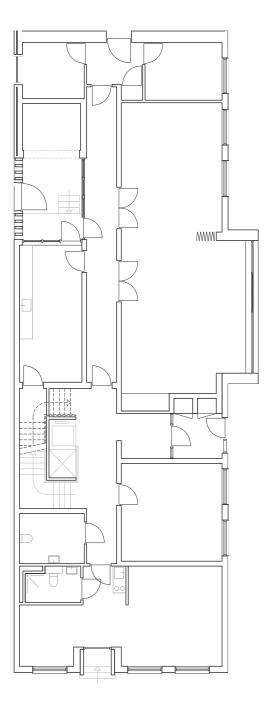




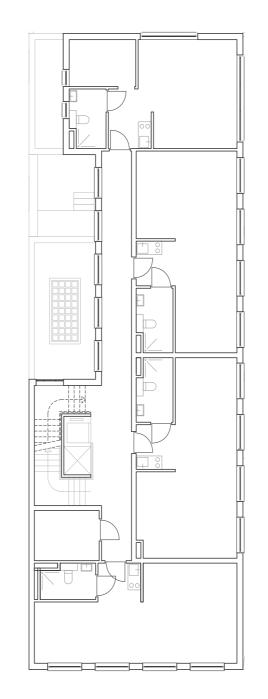
elevated walkway from side with new entrace to the atelier spaces



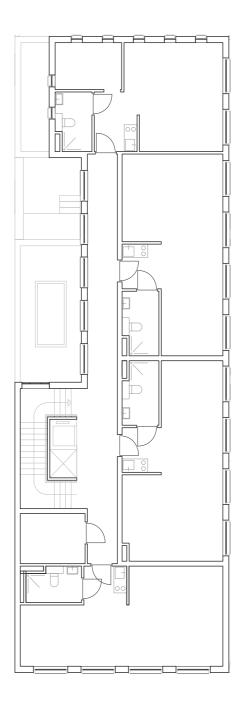




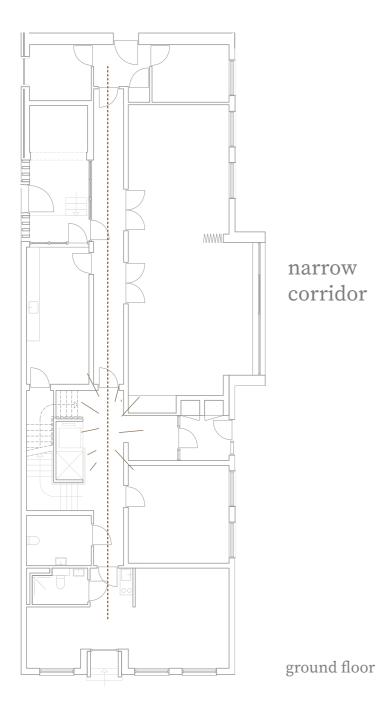
ground floor

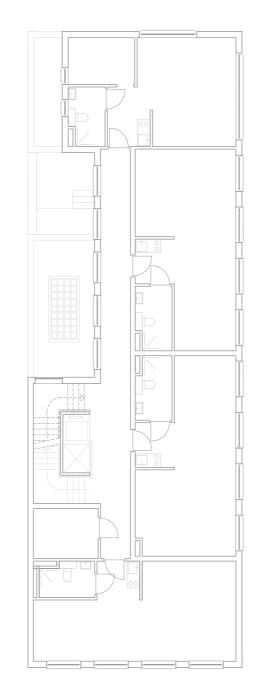


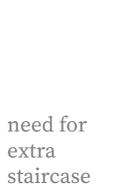
first floor



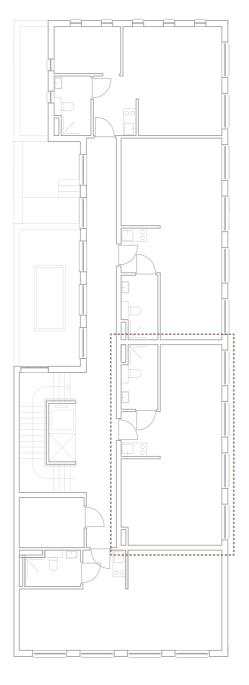
floor plans old situation





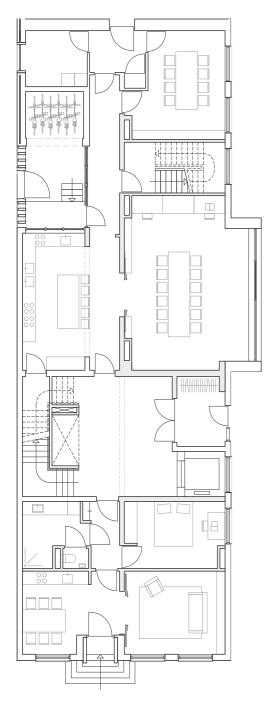


first floor

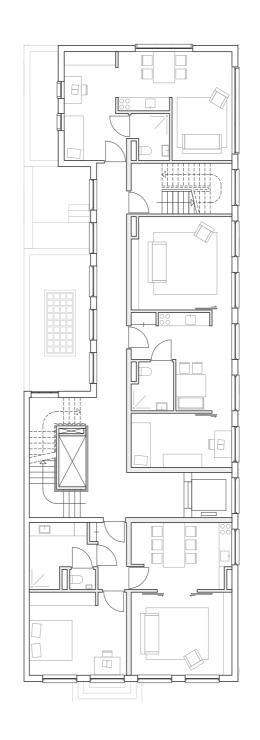


floor plans old situation

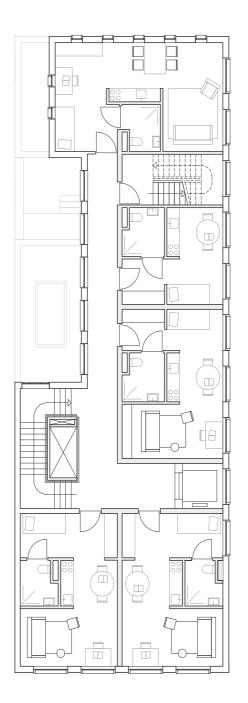
repetition of room typology (9x)





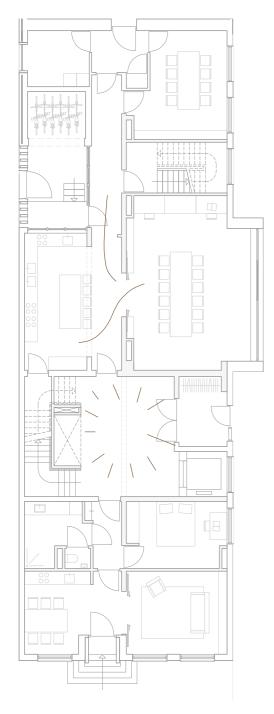


first floor



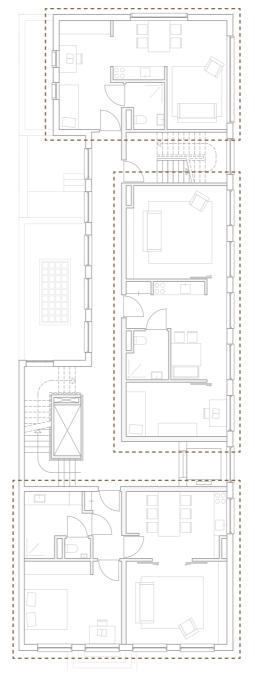
floor plans new situation

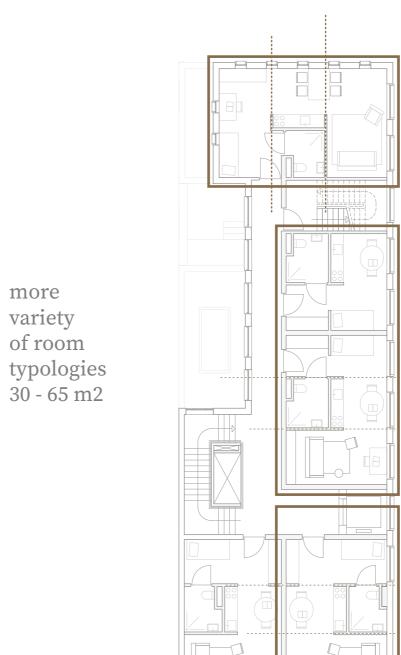
second floor





ground floor





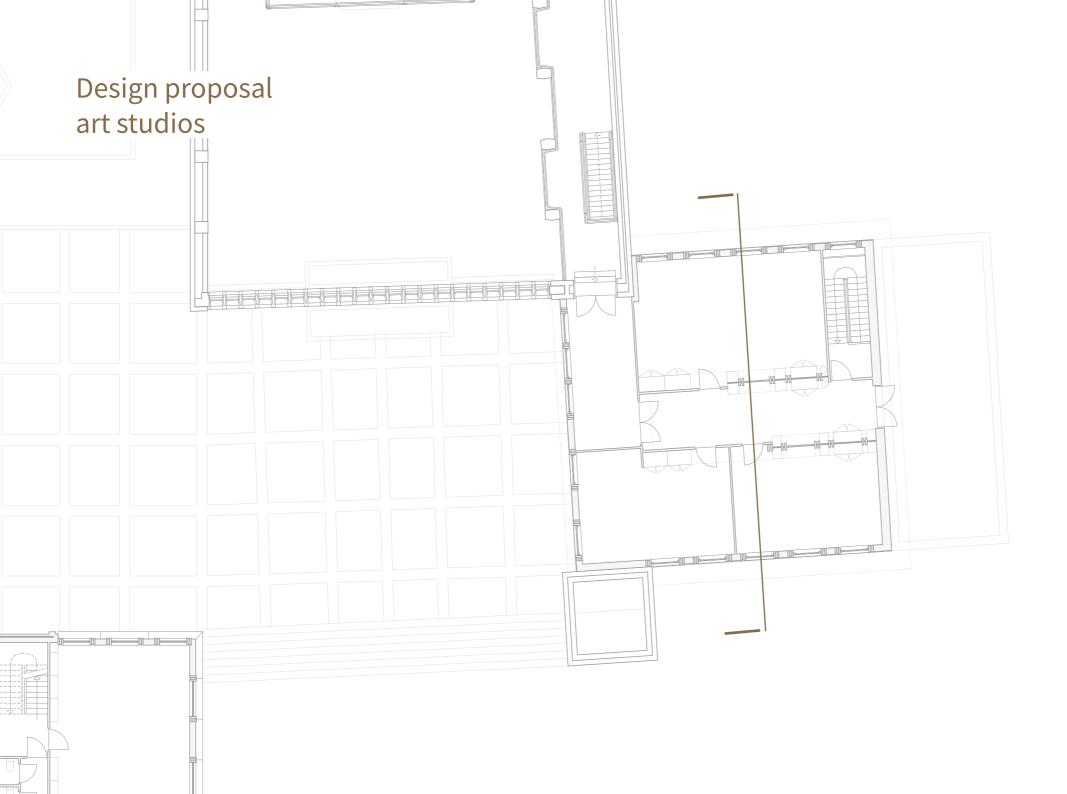
floor plans new situation

introduction of zoning

first floor

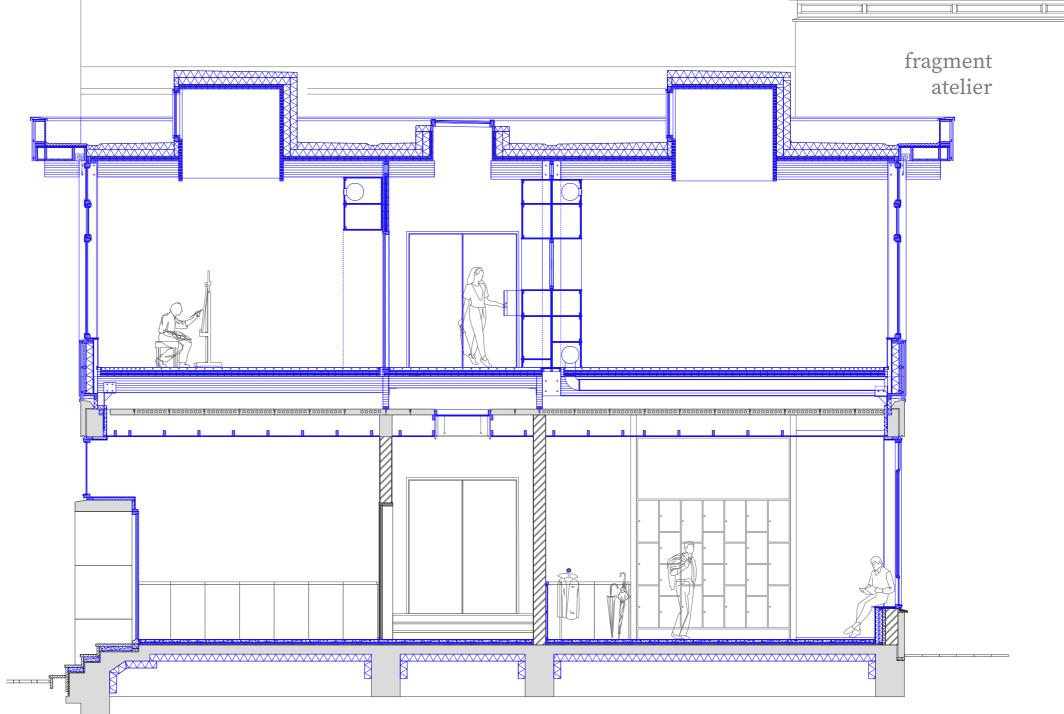
second floor

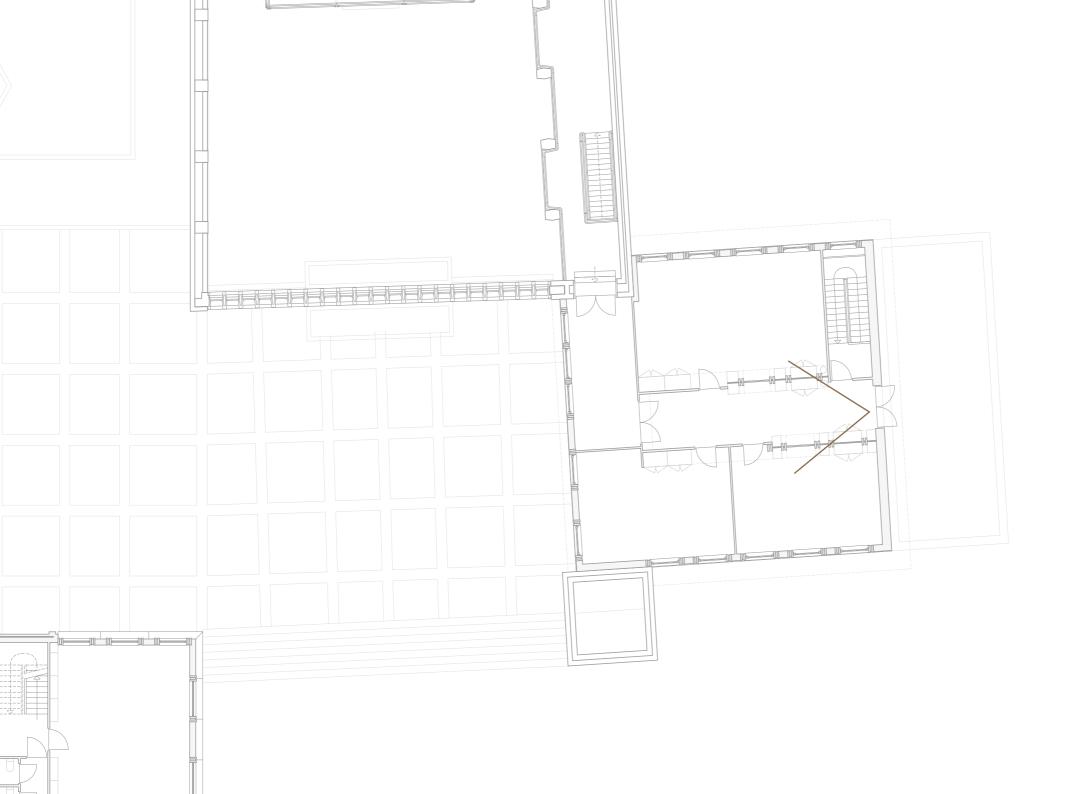








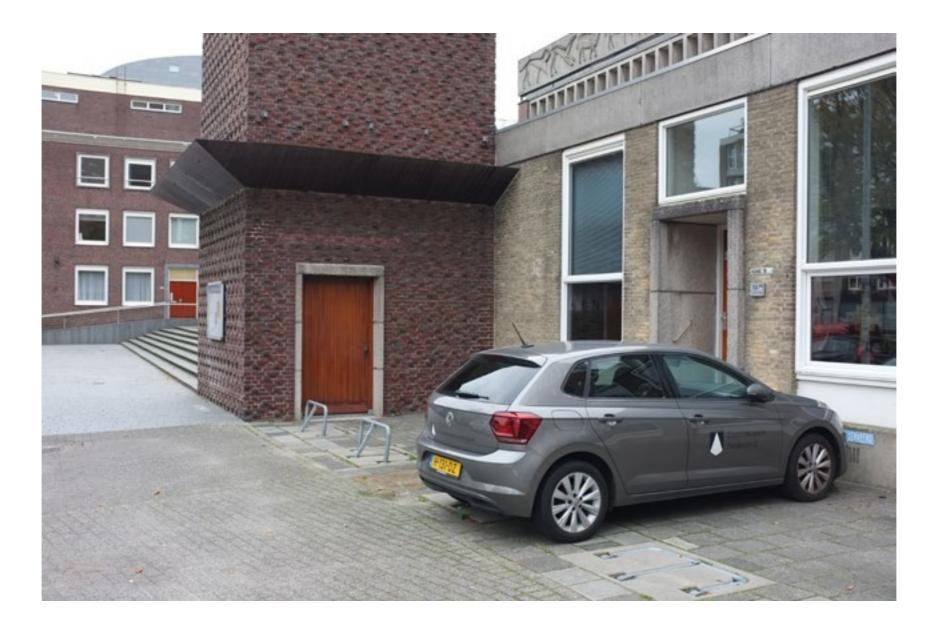








interior view of the central corridor

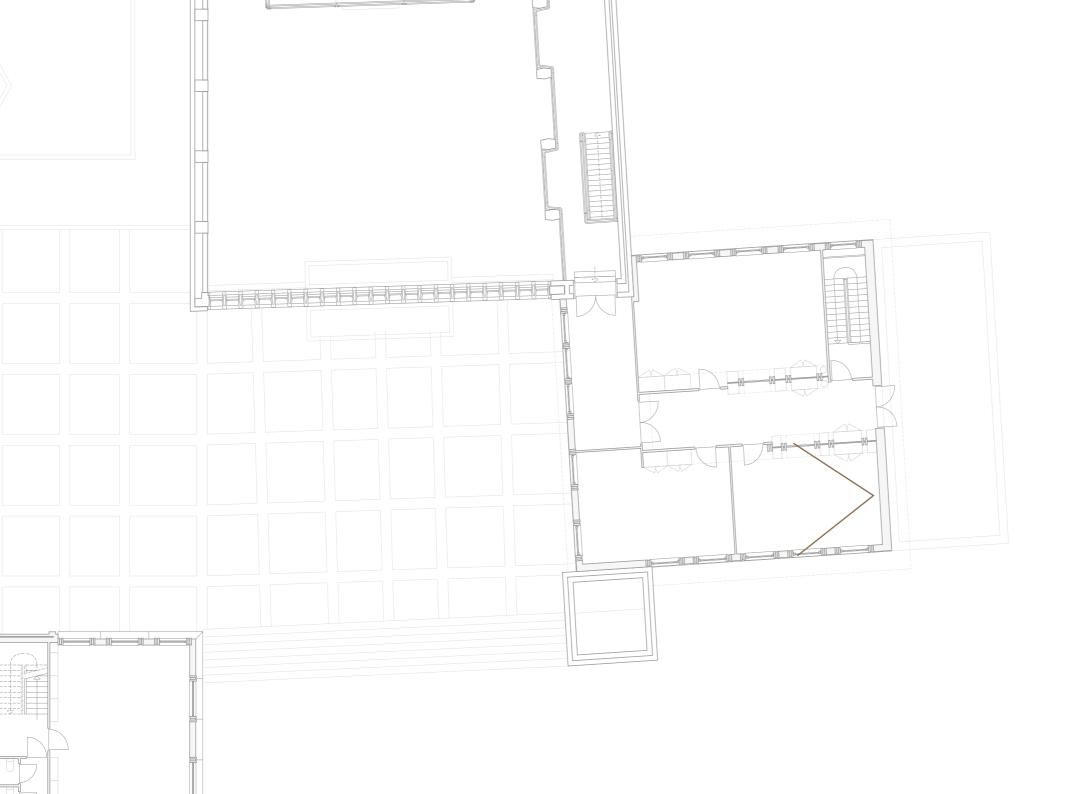


The current situation



exterior view new situation



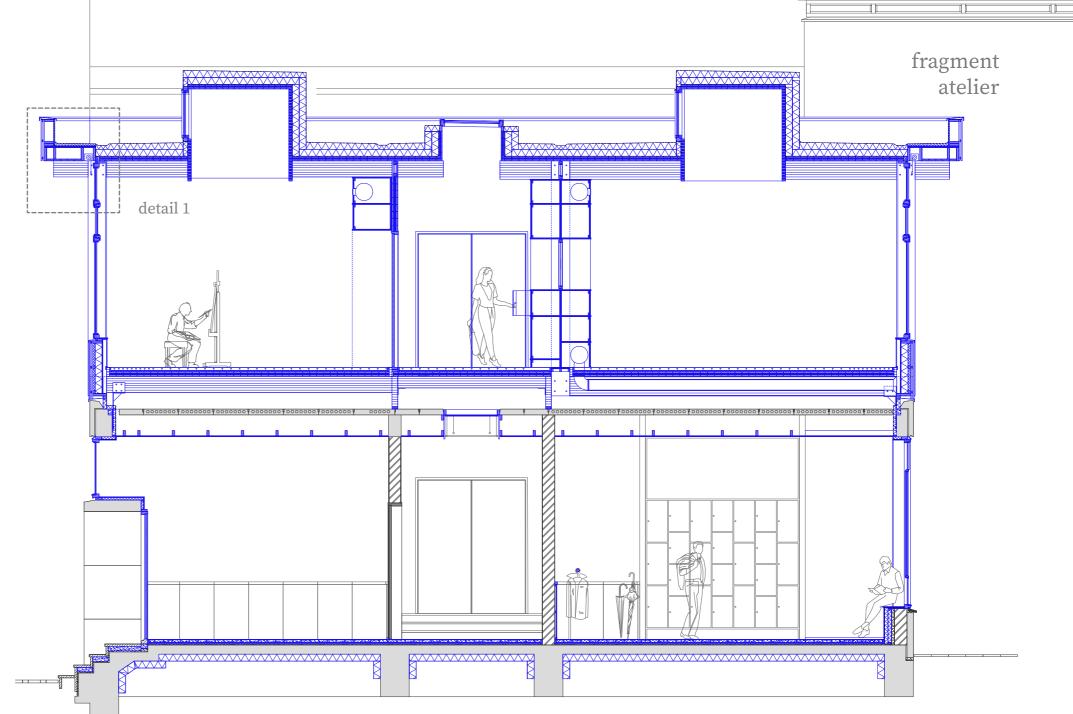


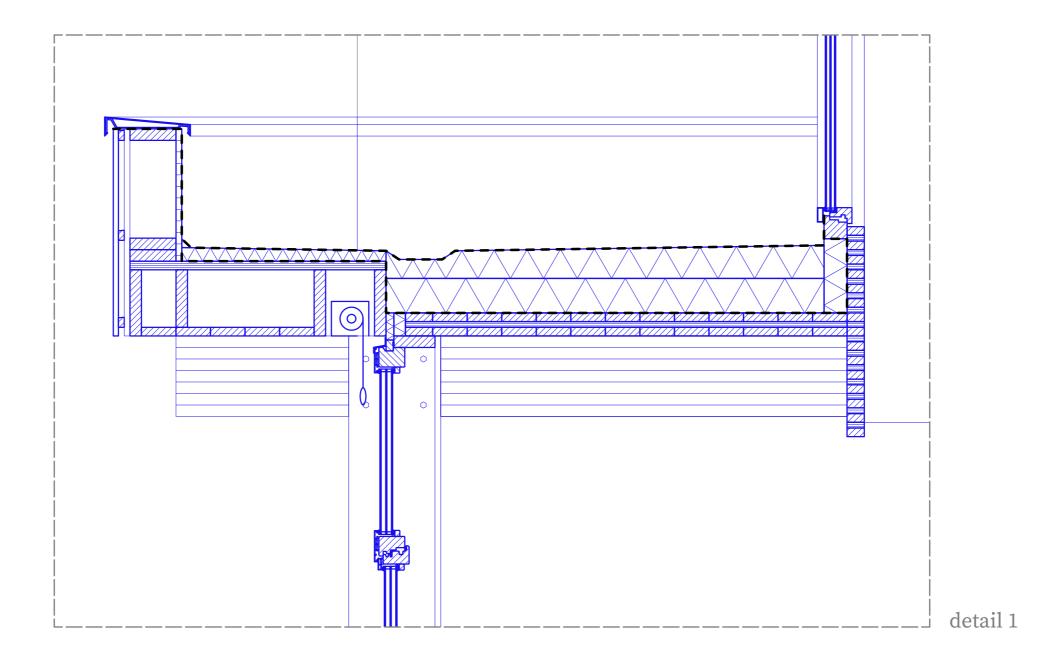




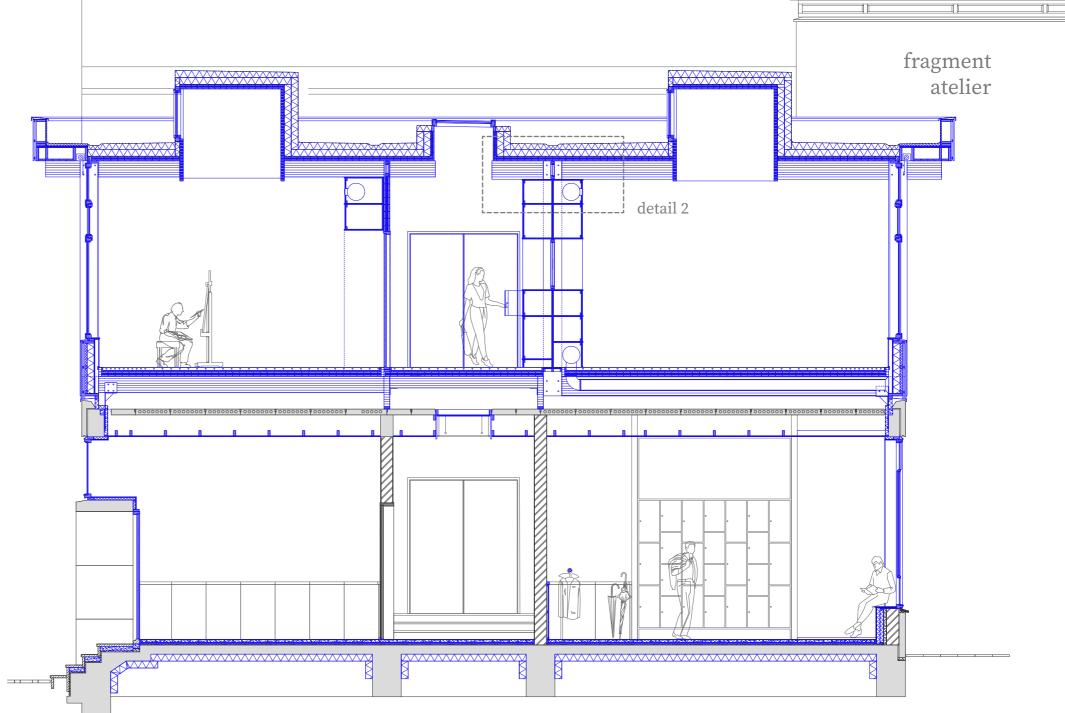
interior view art studio

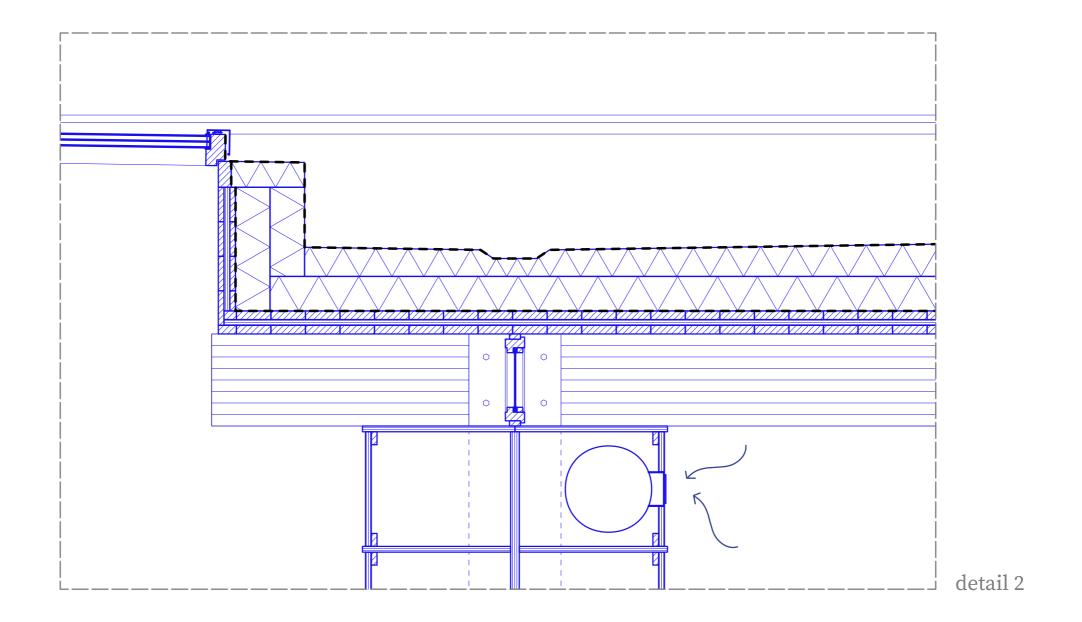




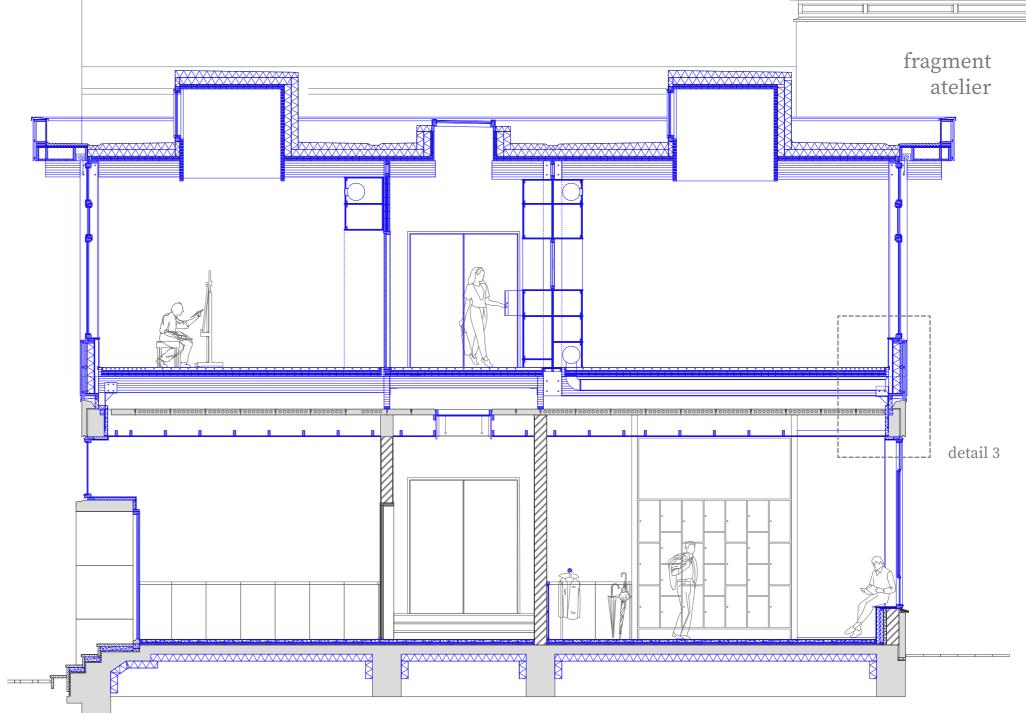


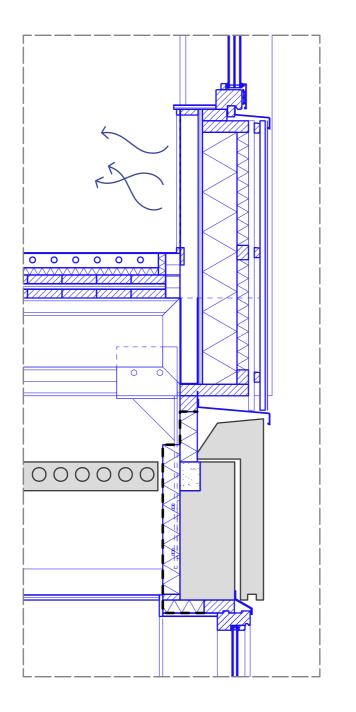














hemp fibre panels

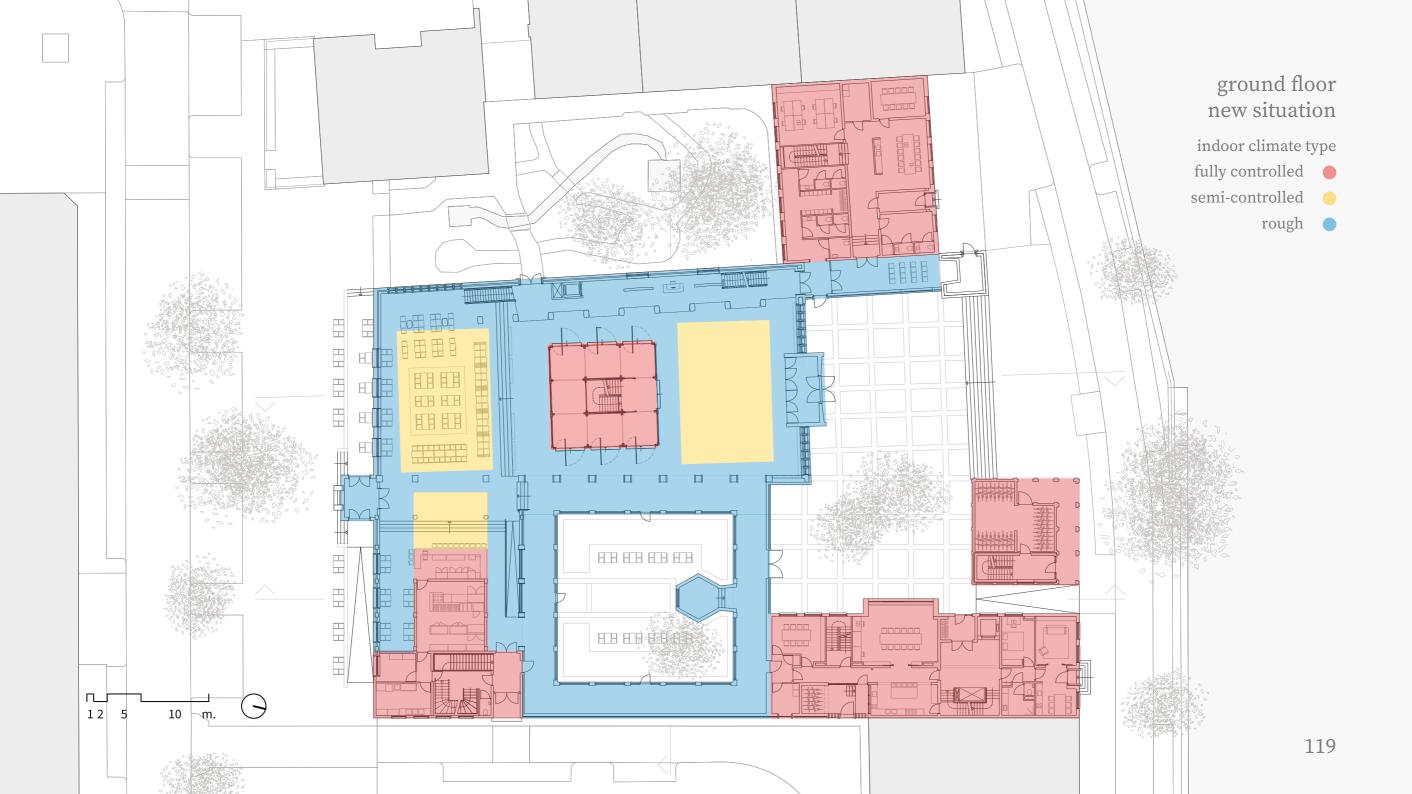
detail 3

Climate concept

Basic principles

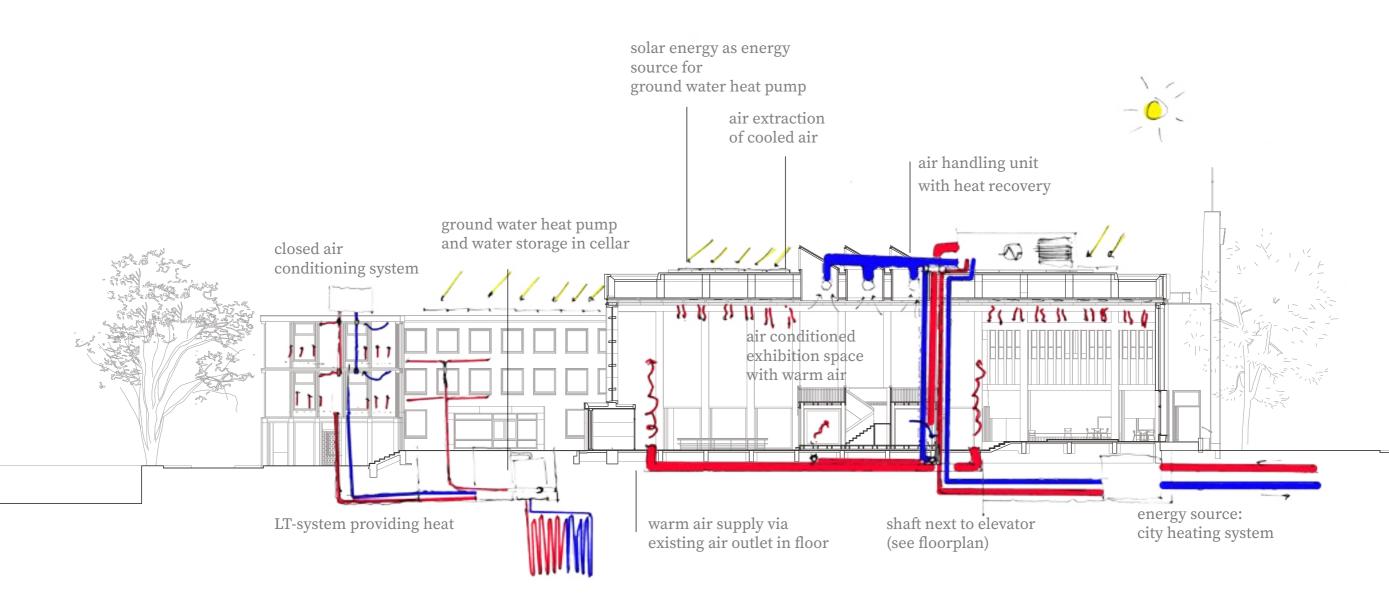
Winter situation1. city heating provides warmth to the exhibition spaces2. extra heating with heat panels

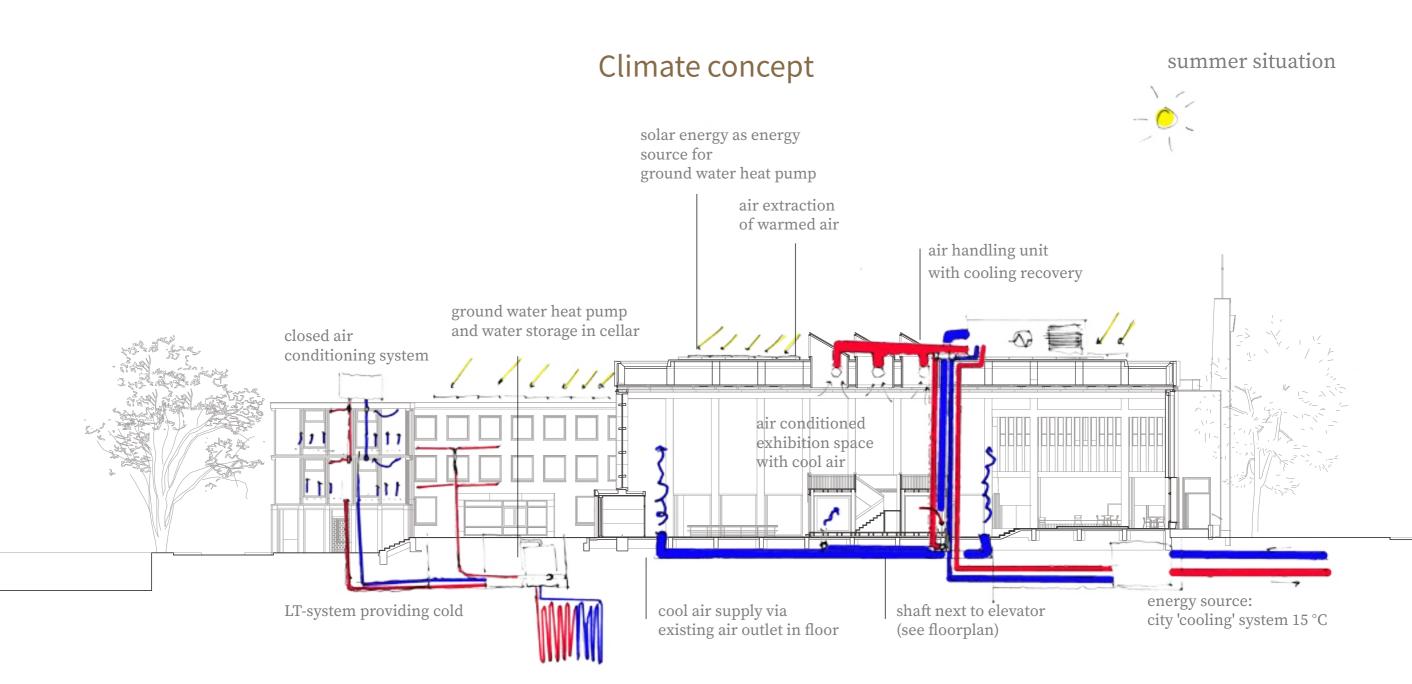
Winter/summer situation 3. art studios and residential area use heat pumps as source



Climate concept

winter situation







Of the elements of a room the window is the most marvelous.

The great American poet, Wallace Stevens, prodded the architect, "What slice of the sun does your building have?".

To paraphrase: what slice of the sun enters your room. What a range of mood does the light offer from morning to night from day to day from season to season and all through the years.

Louis Kahn