

REINTERPRETING HISTORY

Design principles for the redesign of the Kolonel Palmkazerne Kitchen Building



REDEVELOPMENT PLANS



INTRODUCTION BUILDING



RESEARCH AND DESIGN APPROACH



RESEARCH RESULTS



DESIGN RESULTS



REDEVELOPMENT PLANS

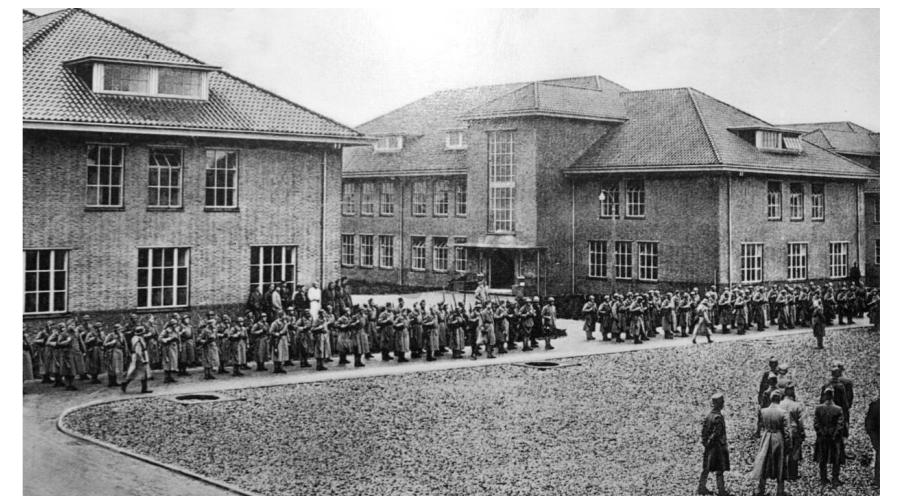
SITUATED



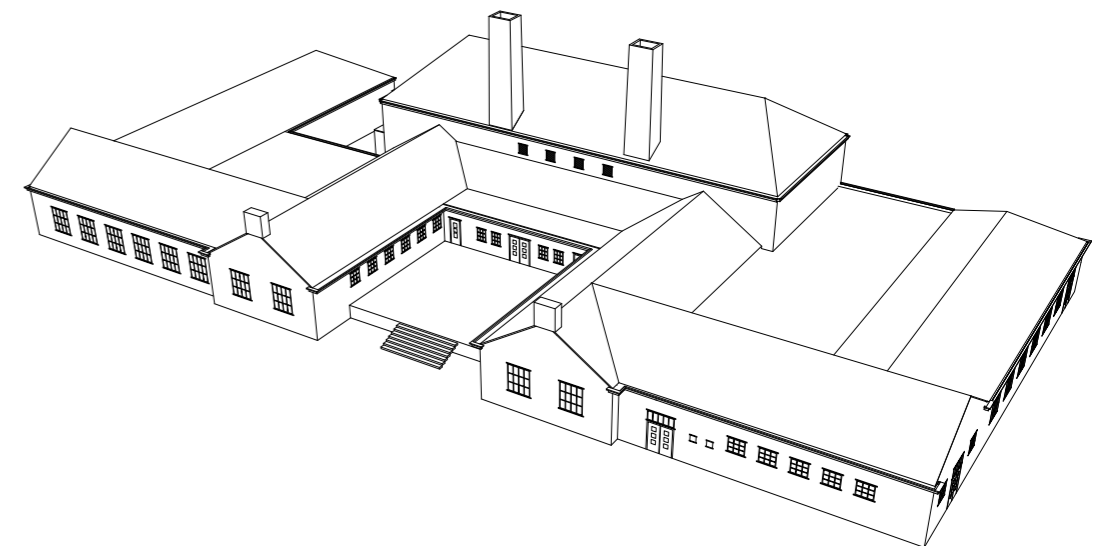
CRAILOKWARTIER 1:1000



KOLONEL PALMKAZERNE 1:500



KITCHEN BUILDING



NEW FUNCTION



NEW FUNCTION



1. Bussum library want to become a Third Space

NEW FUNCTION



1. Bussum library want to become a Third Space



2. Groene afslag more catered to events and business

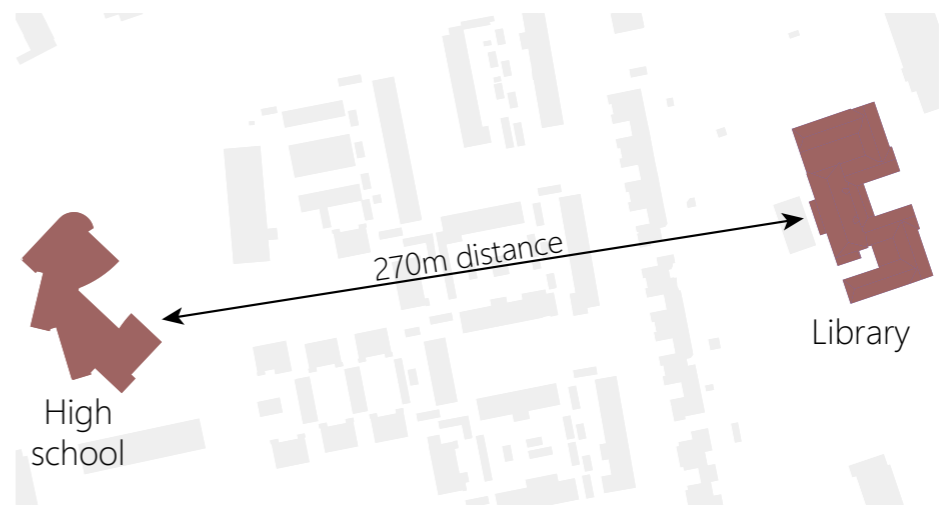
NEW FUNCTION



1. Bussum library want to become a Third Space

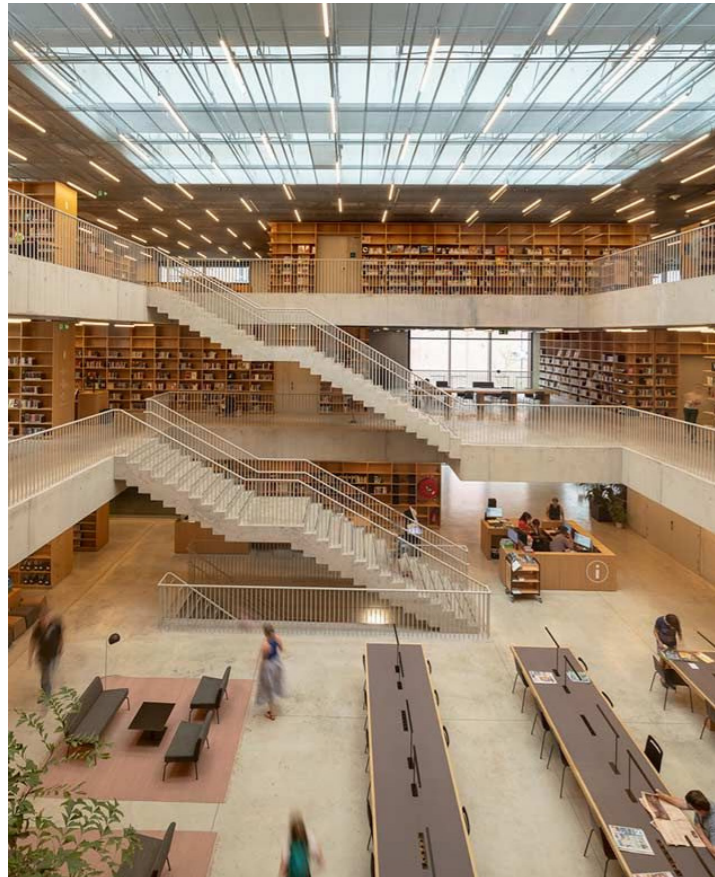


2. Groene afslag more catered to events and business



3. High school nearby

THIRD SPACE



Library



Cafe



Coworking space



Educational

An aerial, black and white photograph of a residential campus. The foreground and middle ground are dominated by several large, multi-story buildings with gabled roofs and numerous windows. The buildings are arranged in a somewhat circular or semi-circular pattern around a central area. The background is a dense forest of trees. The sky is overcast. The text "INTRODUCTION KITCHEN BUILDING" is overlaid in the center of the image.

INTRODUCTION KITCHEN BUILDING

KITCHEN BUILDING - EXTERIOR



KITCHEN BUILDING -INTERIOR



KITCHEN BUILDING -INTERIOR



KITCHEN BUILDING -INTERIOR



KITCHEN BUILDING - INTERIOR



HISTORY OF BOOST

- Netherlands lacked militarily after WWI; fear of invasion grew in the 1930s
- Rapid military expansion → Army needed three times more housing
- Kapitein der Genie A.G.M. Boost was tasked with fast, standardized designs
- Sixteen Barracks throughout the Netherlands
- Two barracks types: Boost I (border) & Boost II (regiment)



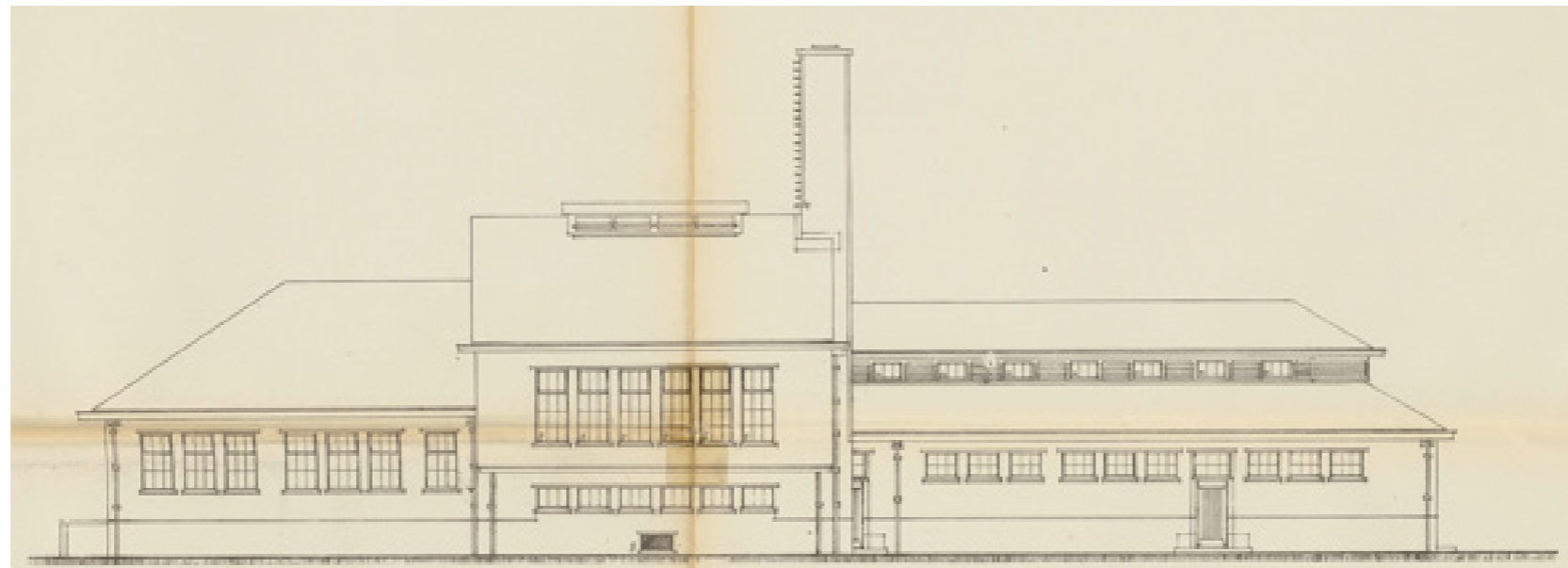
HISTORY OF BOOST



HISTORY OF BOOST



HISTORY OF BOOST



HISTORY OF BOOST



Poortgebouw



Legeringsgebouw



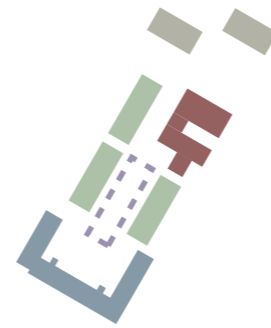
Keukengebouw



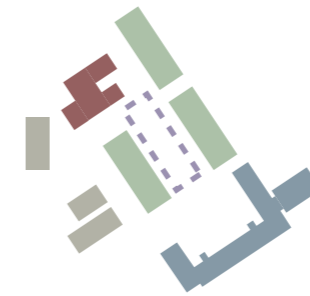
Appelplaats



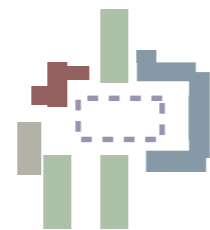
Arnhem



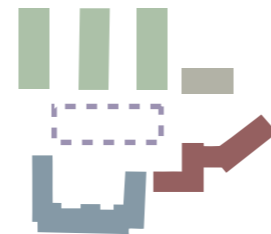
Eindhoven



Schalkhaar



Bergen op Zoom



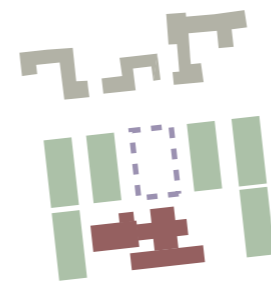
Eefde



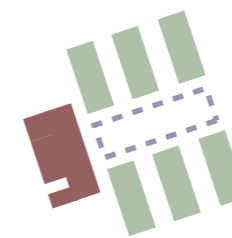
Tilburg



Steenwijk



Ede



Bussum

HISTORY OF BOOST



Poortgebouw



Legeringsgebouw



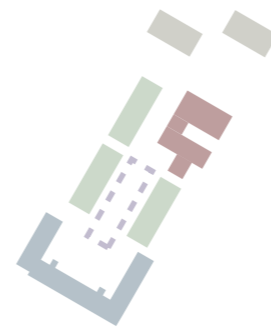
Keukengebouw



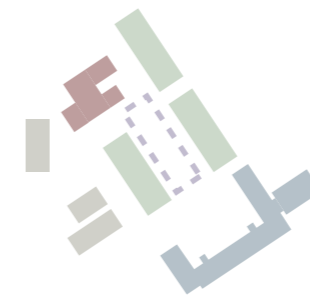
Appelplaats



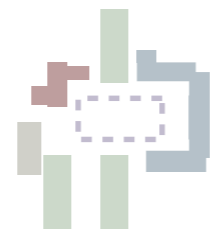
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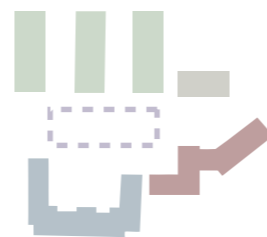
Eindhoven



Schalkhaar



Bergen op Zoom



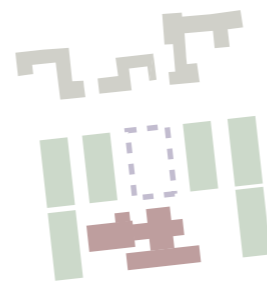
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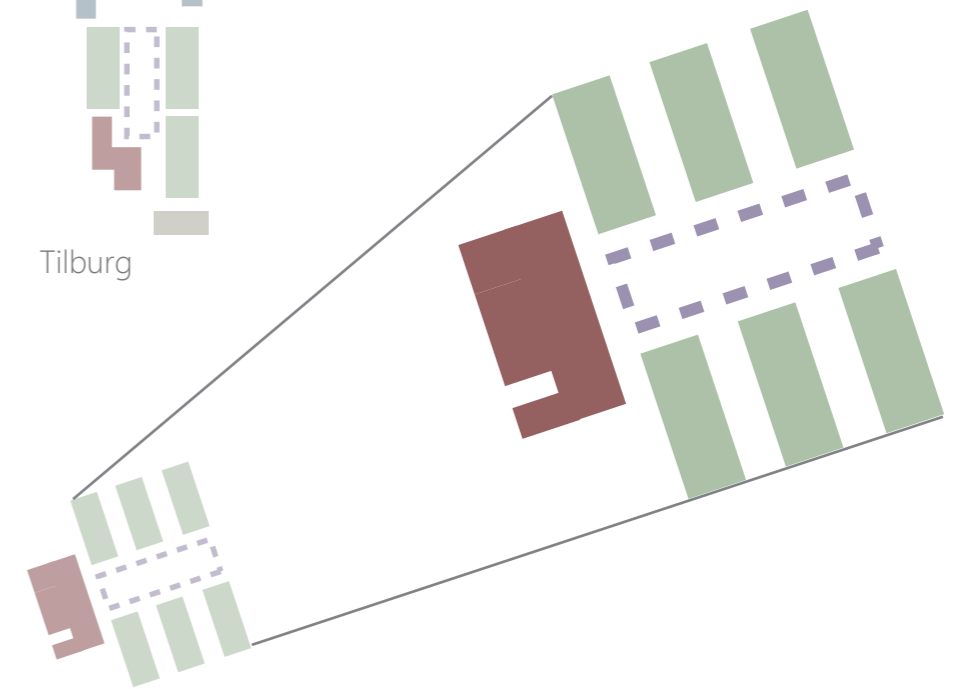
Tilburg



Steenwijk

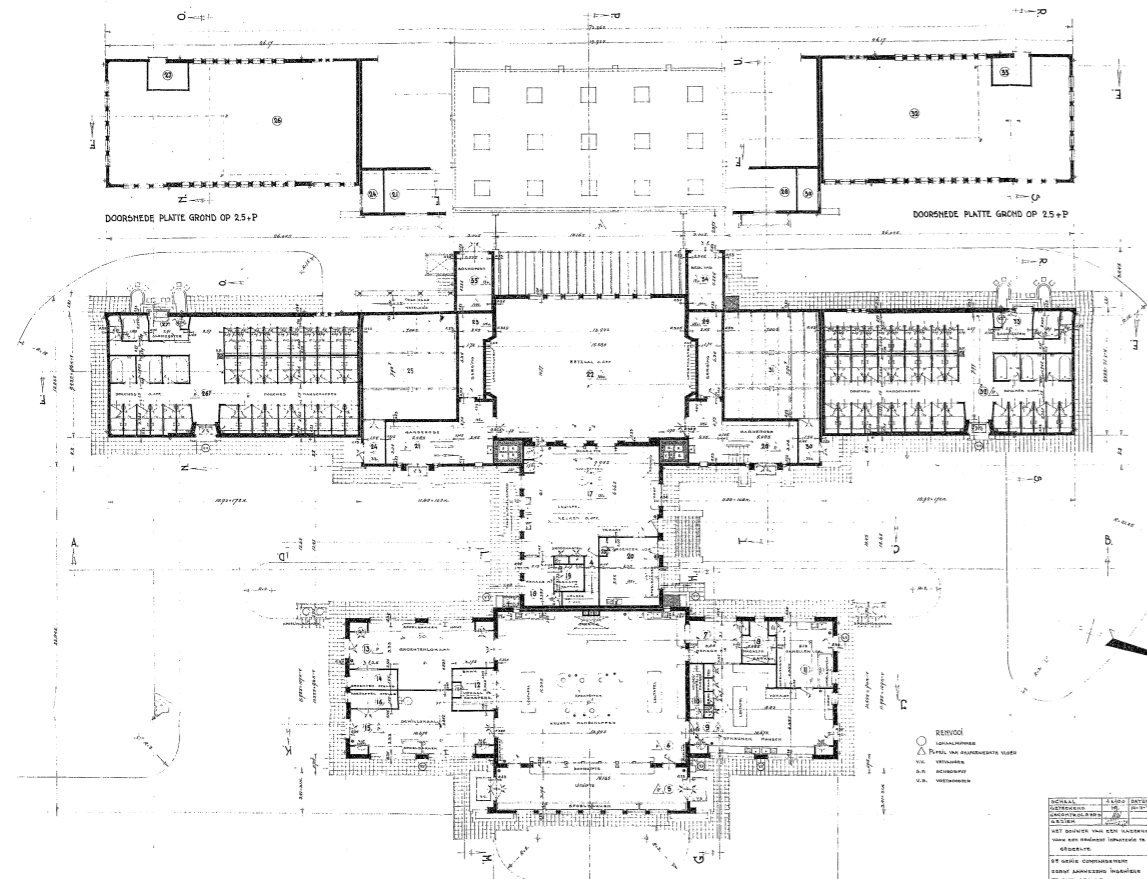
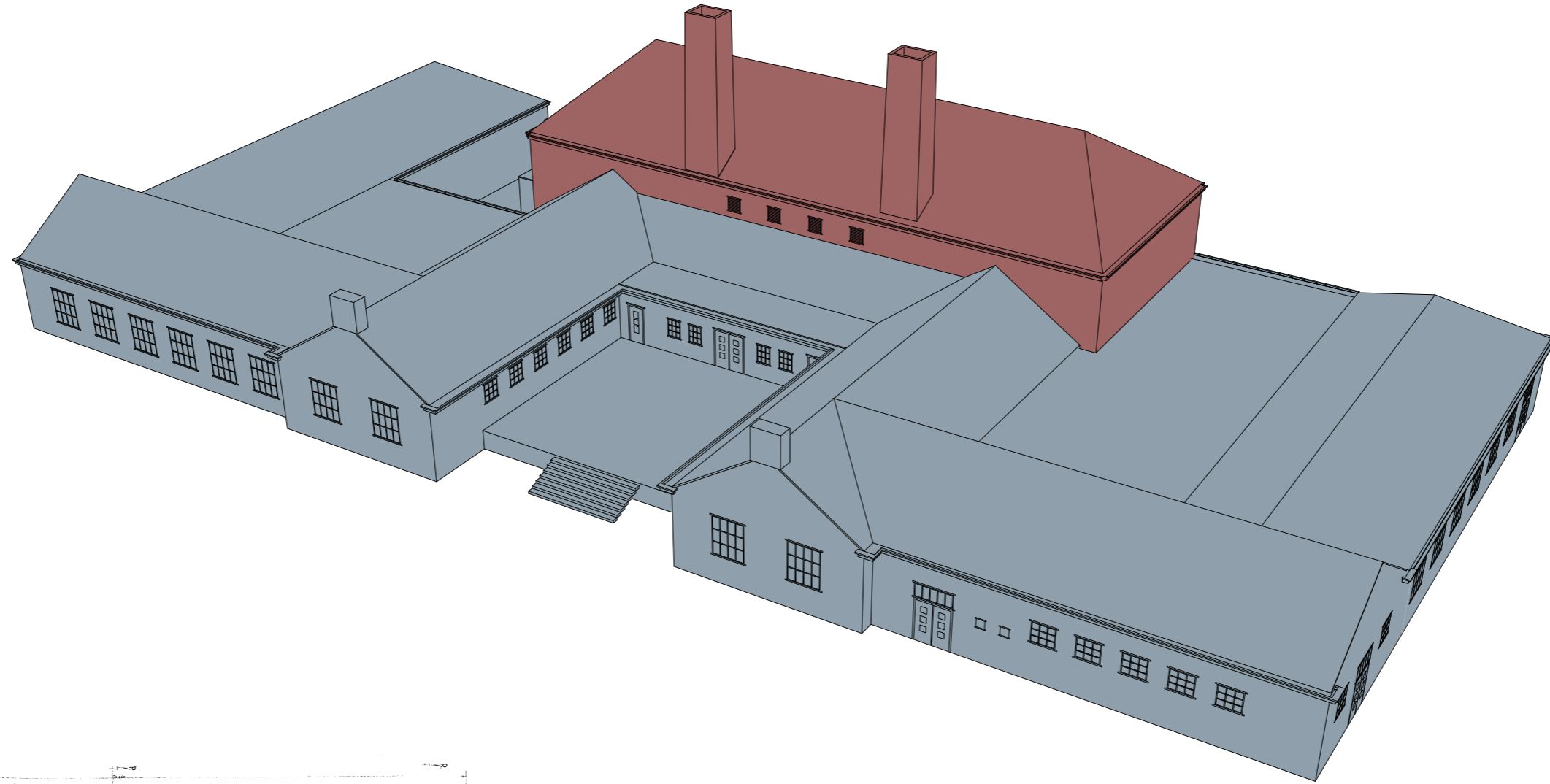


Ede



Bussum

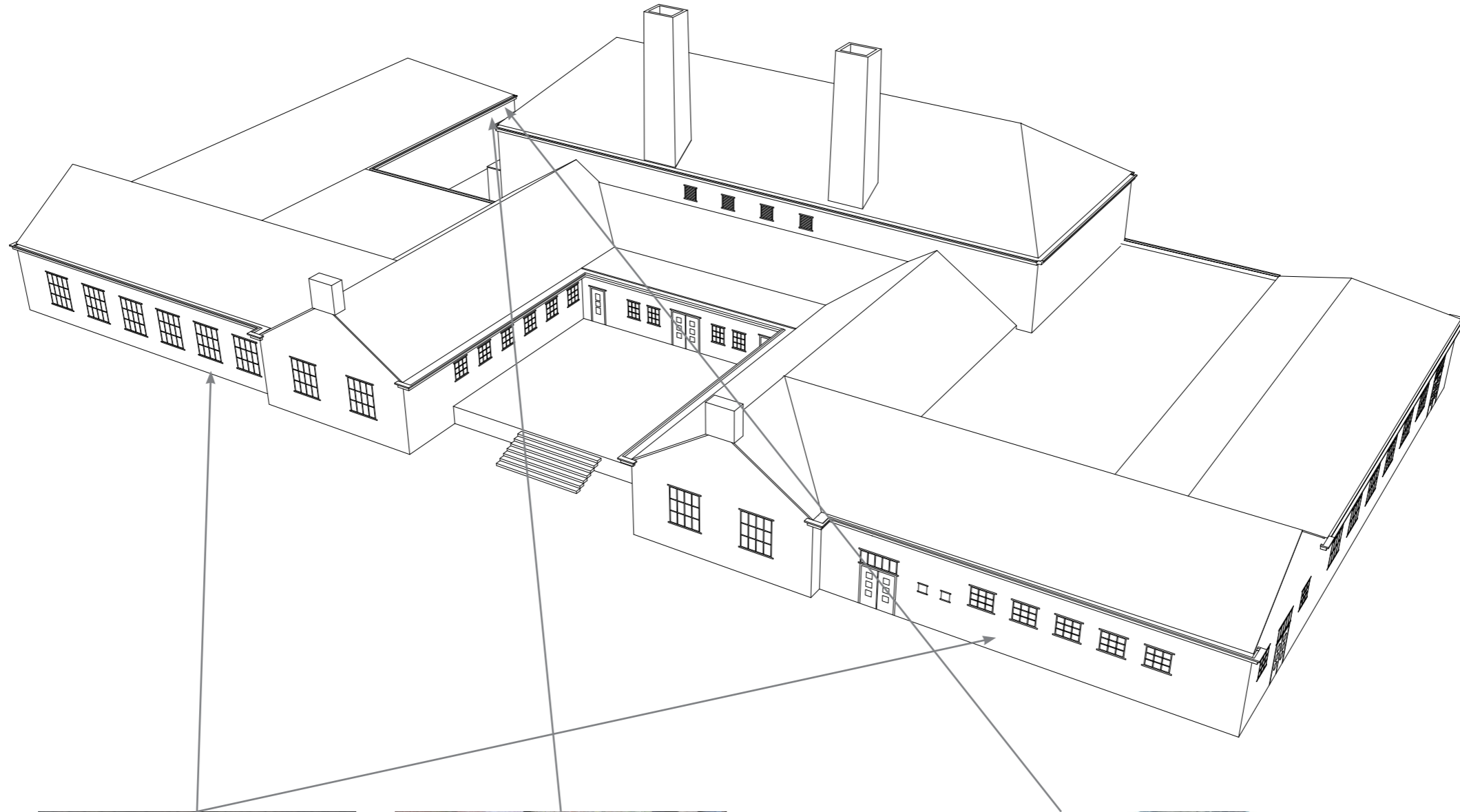
HISTORY OF BOOST



A.G.M. Boost

W.J.A. Herbers

STATE OF BUILDING



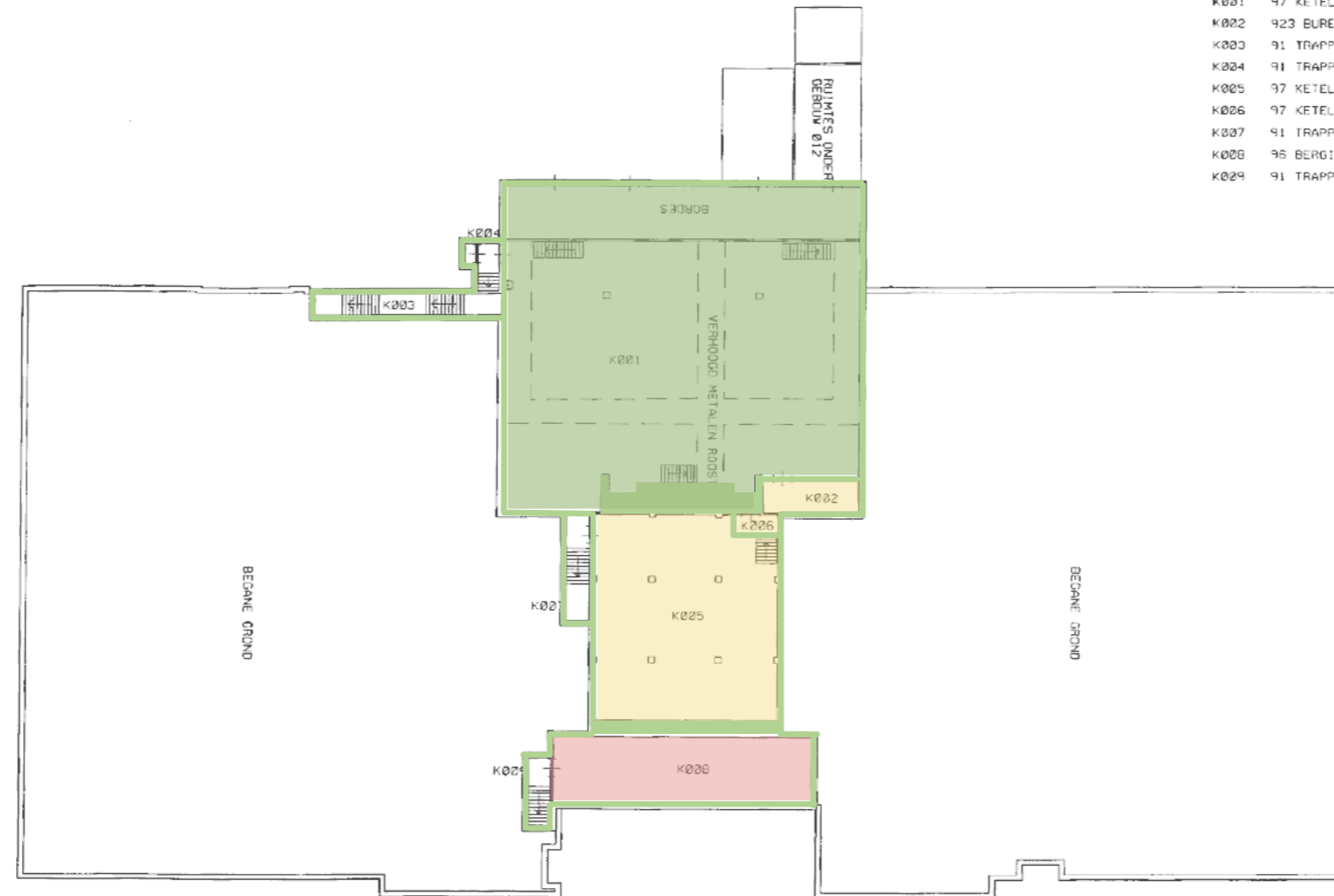
An aerial, black and white photograph of a residential campus. The foreground and middle ground are dominated by several large, multi-story buildings with dark, gabled roofs and numerous dormer windows. The buildings are arranged in a somewhat circular or cluster pattern. The background is a dense, continuous forest of trees. The sky is overcast. The text "RESEARCH AND DESIGN APPROACH" is overlaid in the center of the image.

RESEARCH AND DESIGN APPROACH

VALUE ASSESSMENT

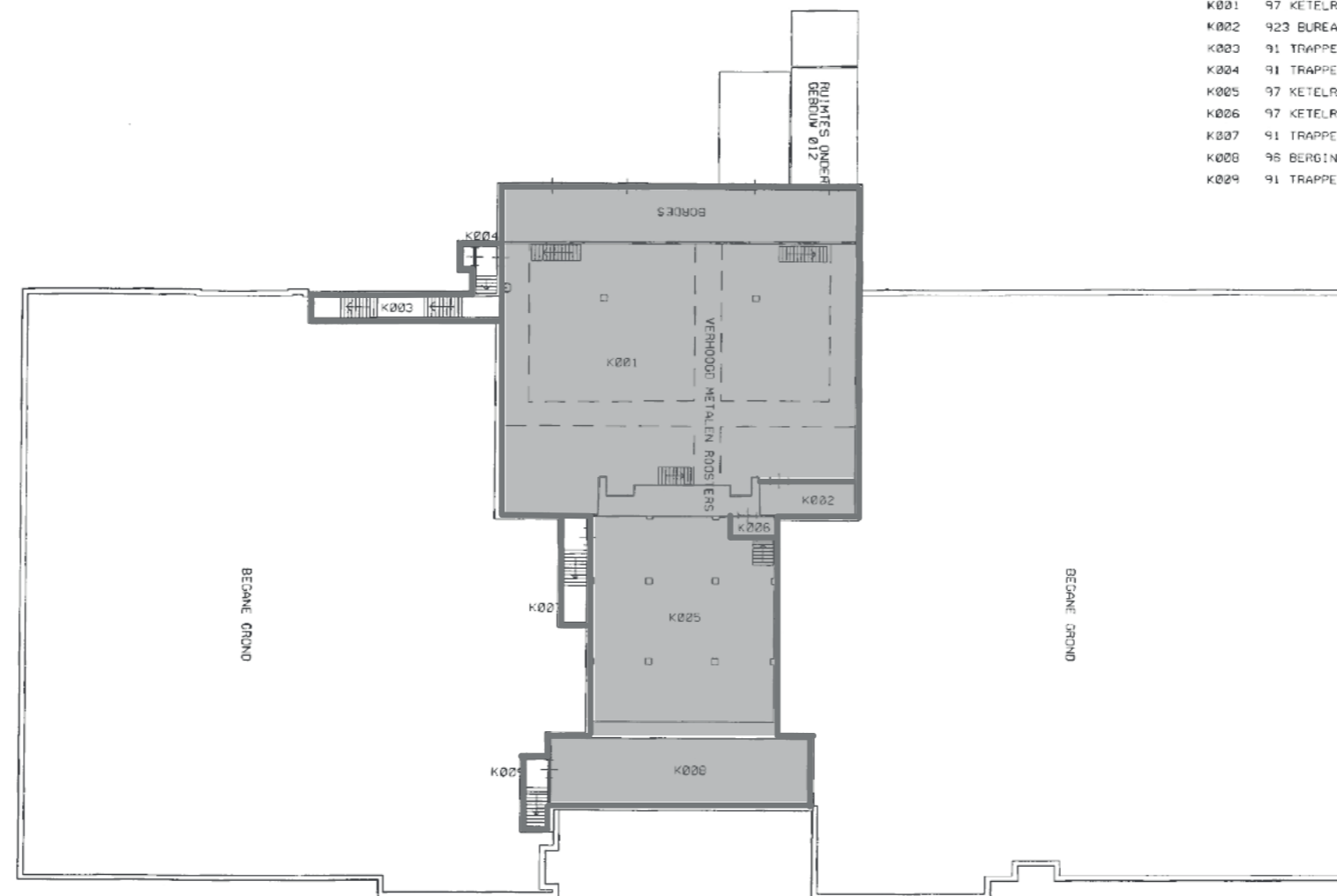
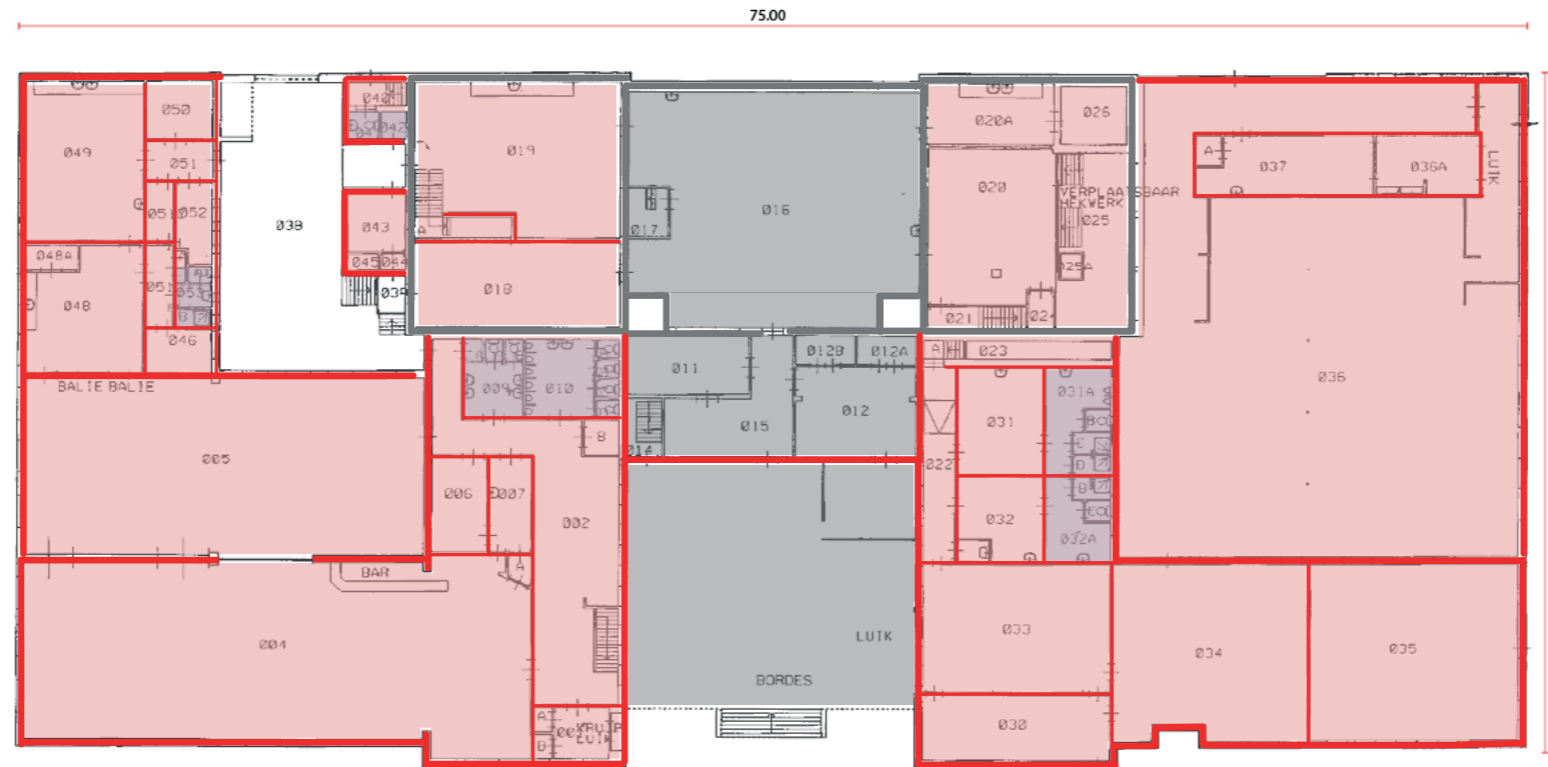


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- K002 923 BUREAURU
- K003 91 TRAPPENHU
- K004 91 TRAPPENHU
- K005 97 KETELRUIM
- K006 97 KETELRUIM
- K007 91 TRAPPENHU
- K008 96 BERGING AL
- K009 91 TRAPPENHU



- High intrinsic value
- Positive intrinsic value
- Indifferent intrinsic value
- Negative intrinsic value

DEMOLITION PLAN

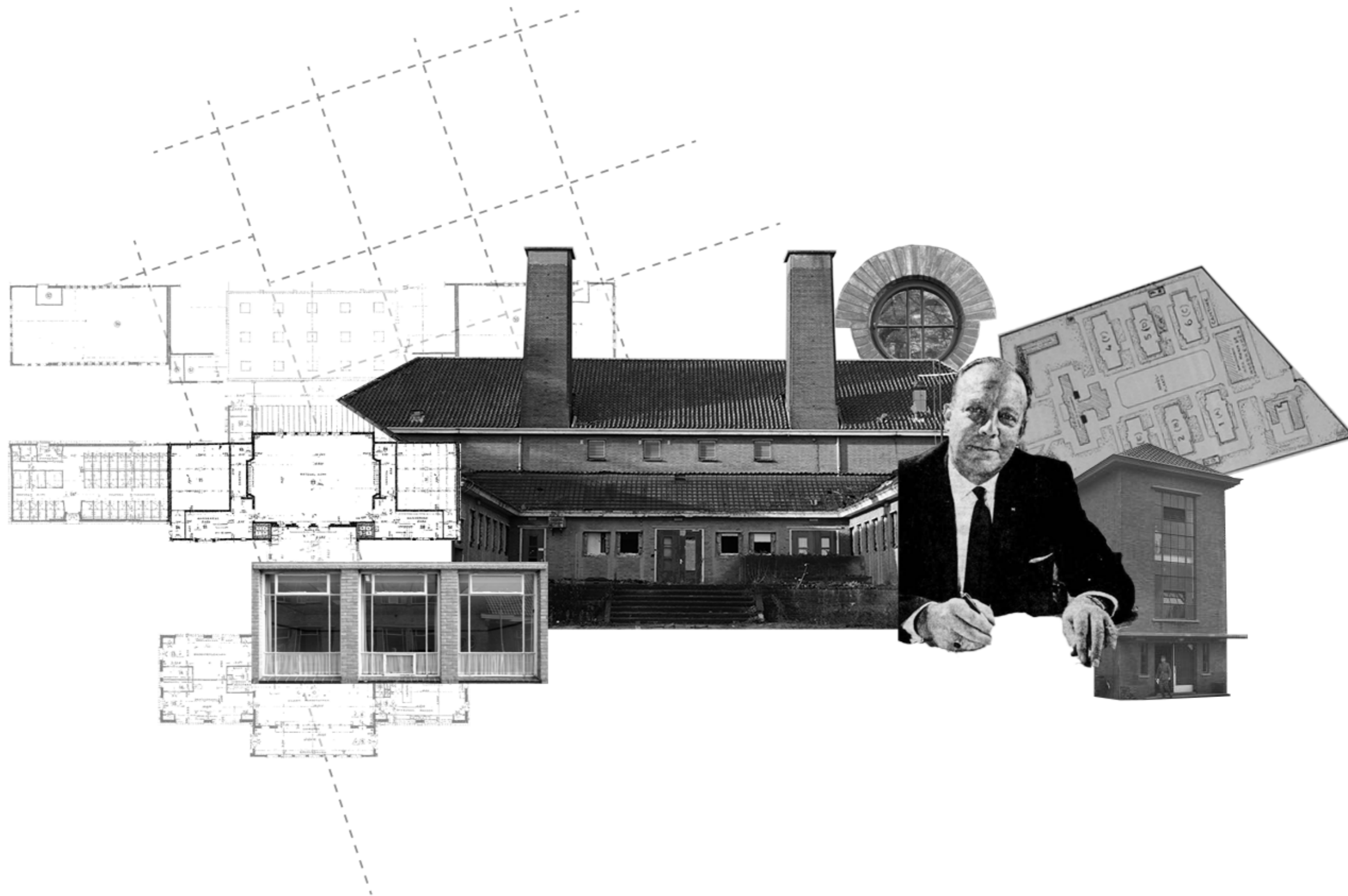


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- K005 97 KETELRUIM
- K006 97 KETELRUIM
- K007 91 TRAPPENHU
- K008 96 BERGING AL
- K009 91 TRAPPENHU

Keep

Remove

PROBLEM STATEMENT



The removal of the less significant Herbers wings creates the opportunity to reinforce the Boost structure. To develop a contemporary reinterpretation, the design principles behind Boost's architecture need to be identified.

RESEARCH QUESTIONS

“What are the design principles implemented in the Boostkazernes?”

RESEARCH QUESTIONS

“What are the design principles implemented in the Boostkazernes?”

- What is the morphology of the site and how does it reinforce the hierarchy of the ensemble?
- What is the morphology of the building and how is it distinctive for the typology at the site?
- How did the building function historically and how is hierarchy articulated through its design?
- How do materials contribute to the architectural character and functionality of the buildings?

CASE STUDIES



Elias Beeckmankazerne (Ede)

Generaal de Bonskazerne (Grave)

Constant Rebecquekazerne (Eindhoven)

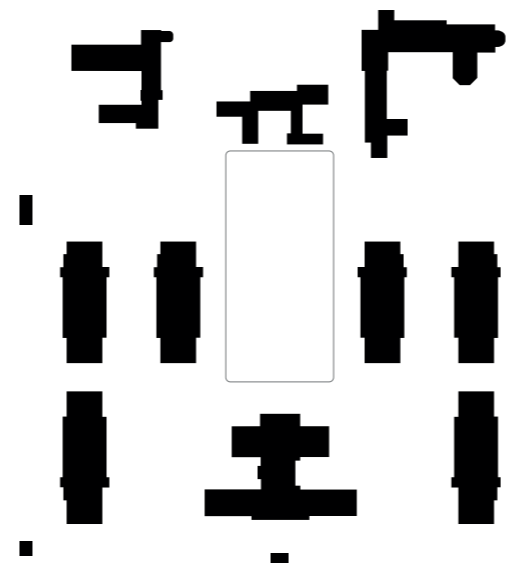
Saksen-Weimarkazerne (Arnhem)



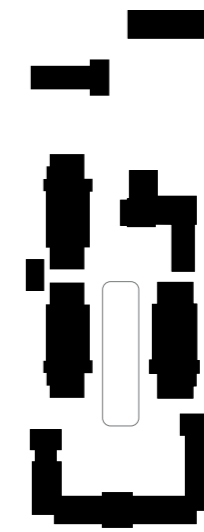
RESEARCH RESULTS

SITE MORPHOLOGY

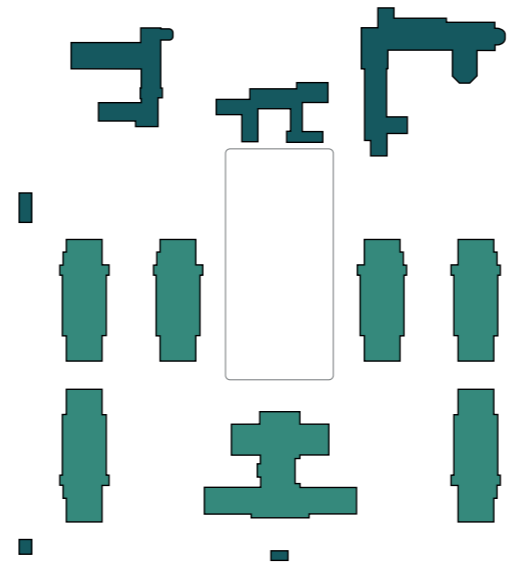
- Functional separation through pavilion planning.
- Buildings are organized around parade ground.
- Clear hierarchy between primary and secondary buildings.
- Symmetry creates order.



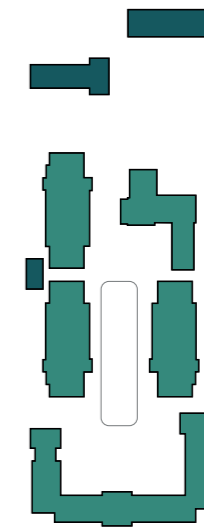
Elias Beekmankazerne



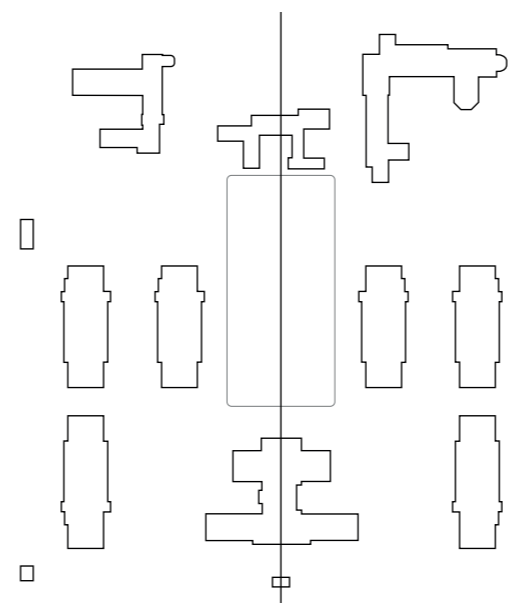
Constant Rebecquekazerne



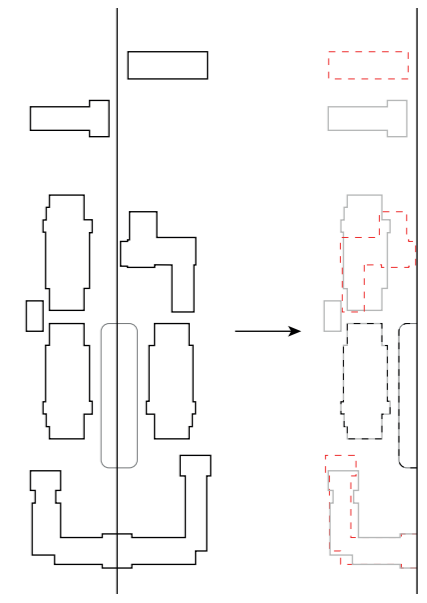
Elias Beekmankazerne



Constant Rebecquekazerne



Elias Beekmankazerne



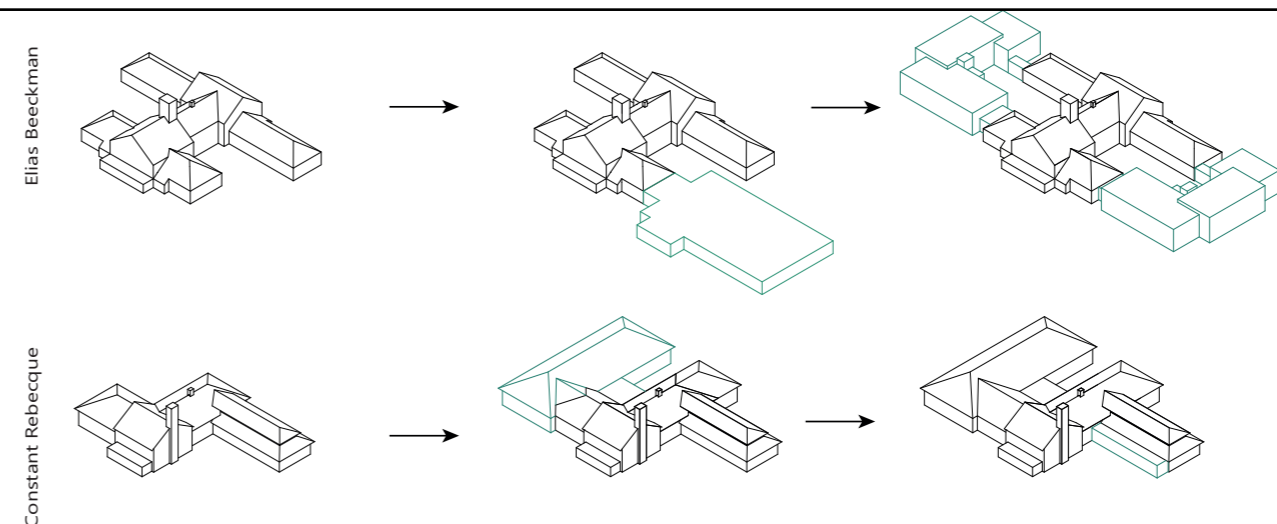
Constant Rebecquekazerne

- Primary buildings (Boost-designed)
- Secondary buildings

KITCHEN BUILDING MORPHOLOGY

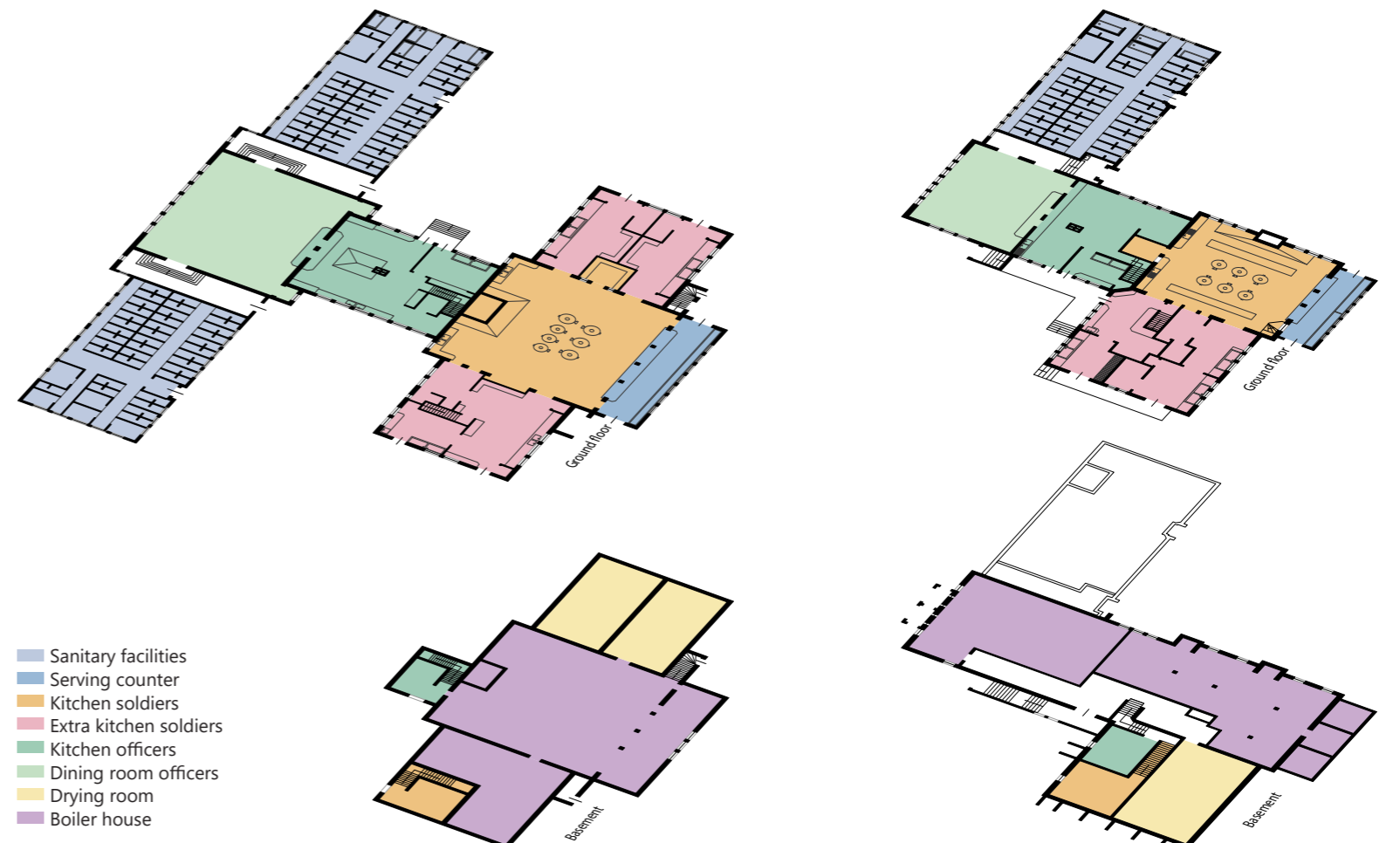
- Buildings create identity through repetition within a standardised system.
- Chimneys act as functional and symbolic markers within the composition.
- Successful additions maintain hierarchy by subordinating themselves to the original massing and roofline.

	Elias Beekman	Constant Rebecque
1.		
2.		
3.		
4.		
5.		
Kitchen building		



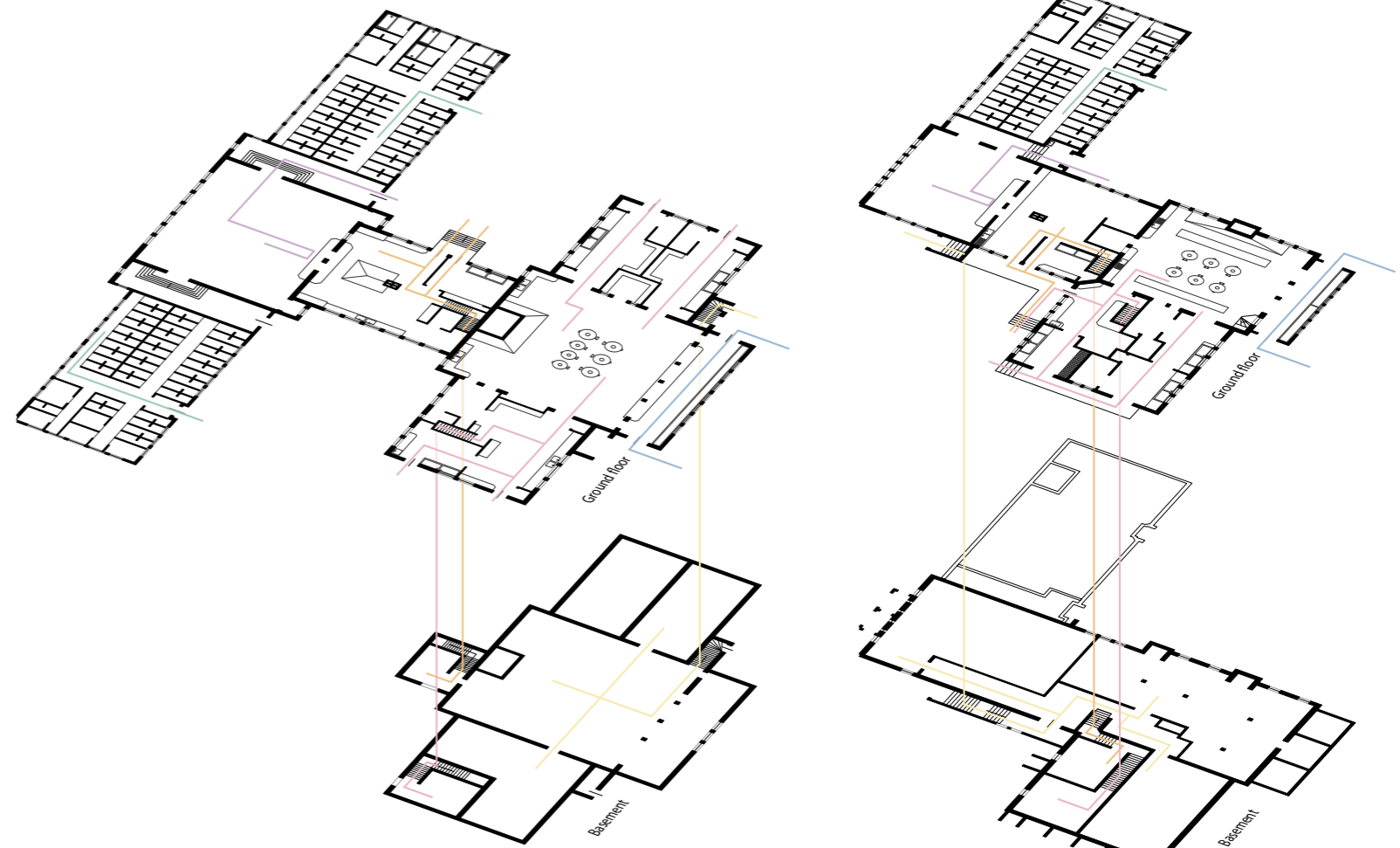
FUNCTIONAL ORGANISATION

- Functional separation determines both plan organisation and movement patterns.
- Circulation prioritizes efficiency, control, and restricted access.
- The kitchen building extends the pavilion logic of the wider barracks site into the interior.



Elias Beeckmankazerne

Constant Rebecquekazerne

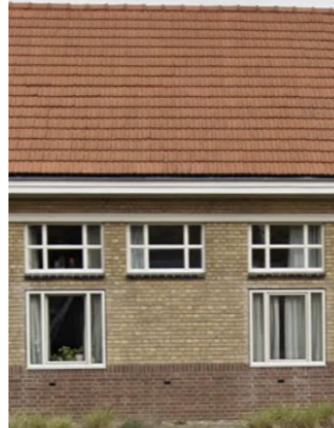


Elias Beeckmankazerne

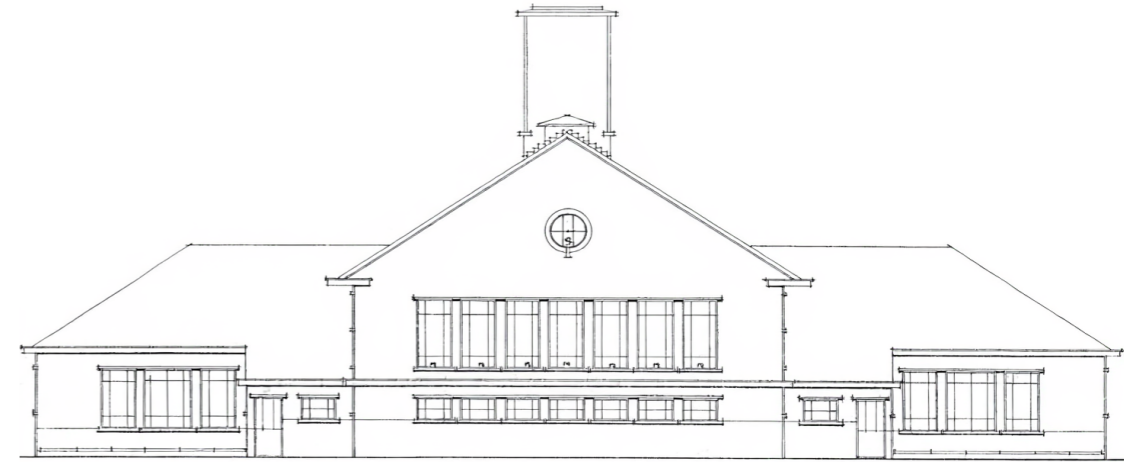
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MATERIALISATION

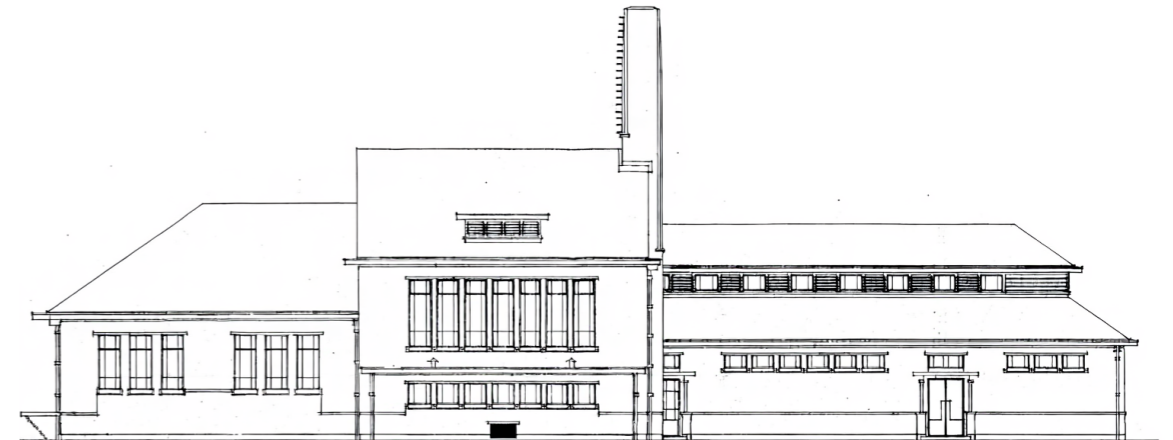
- Traditional materials softened the institutional character of the barracks.
- Façade detailing reinforced order, rhythm, and horizontality.



Elias Beeckmankazerne

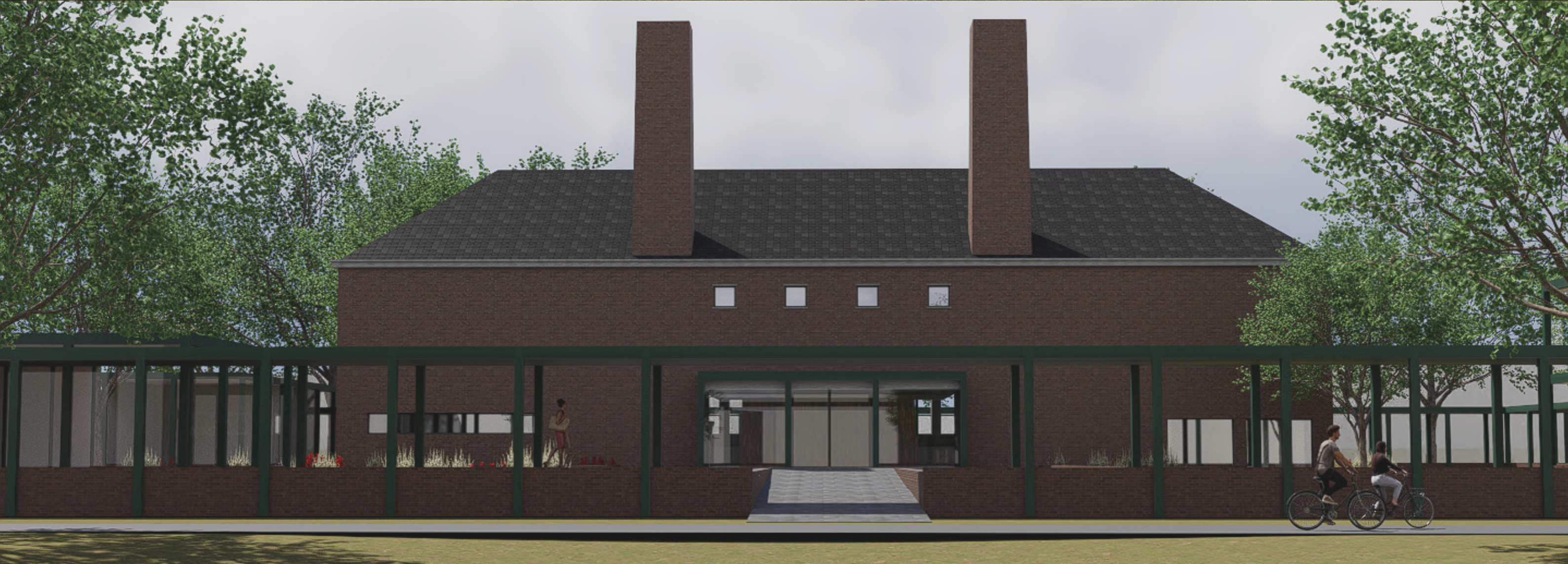


Constant Rebecquekazerne

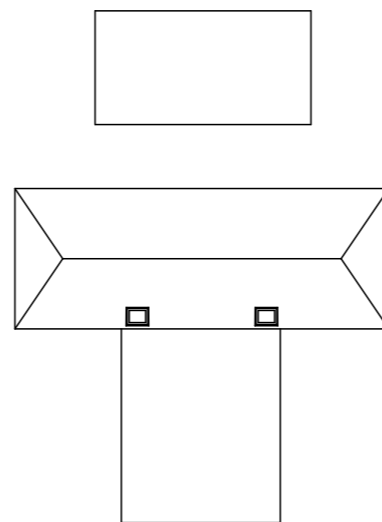
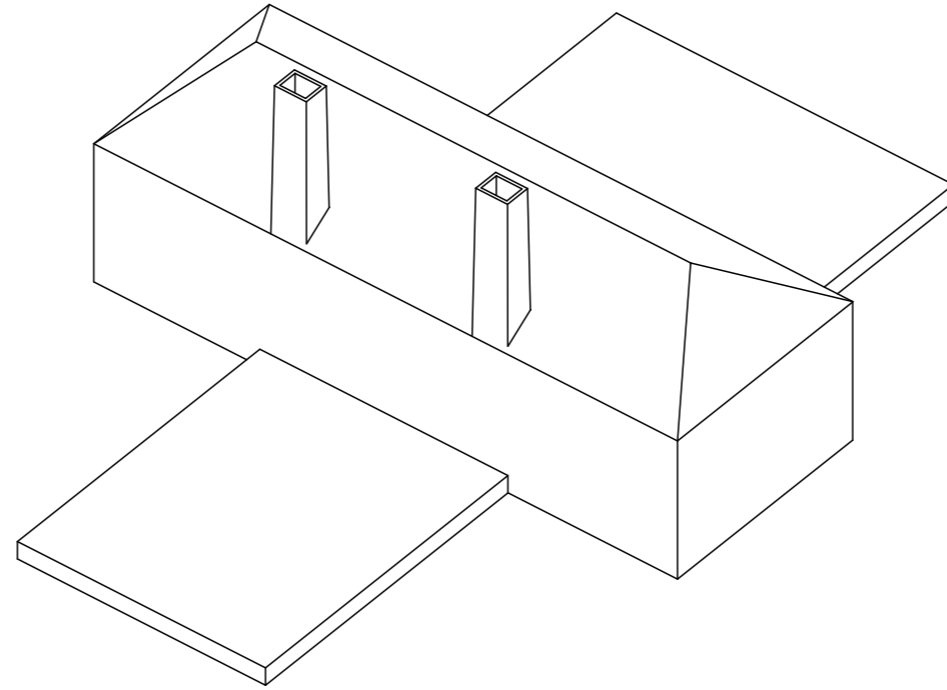




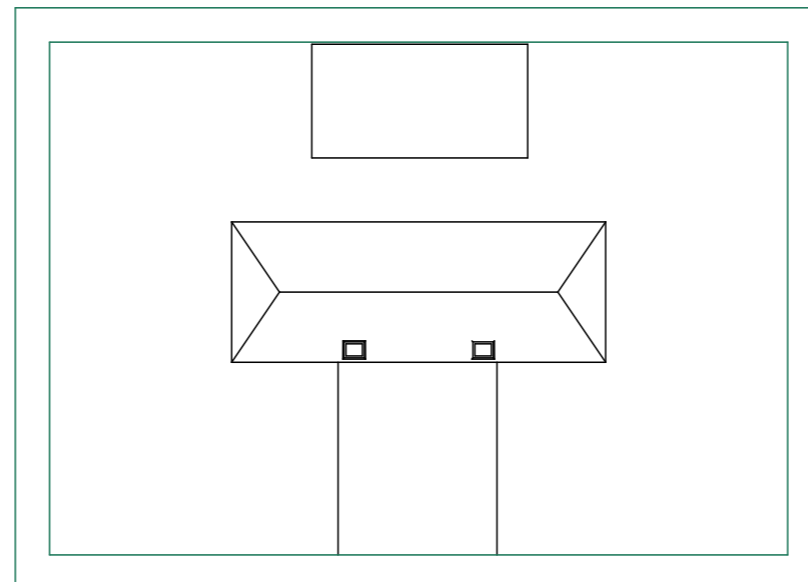
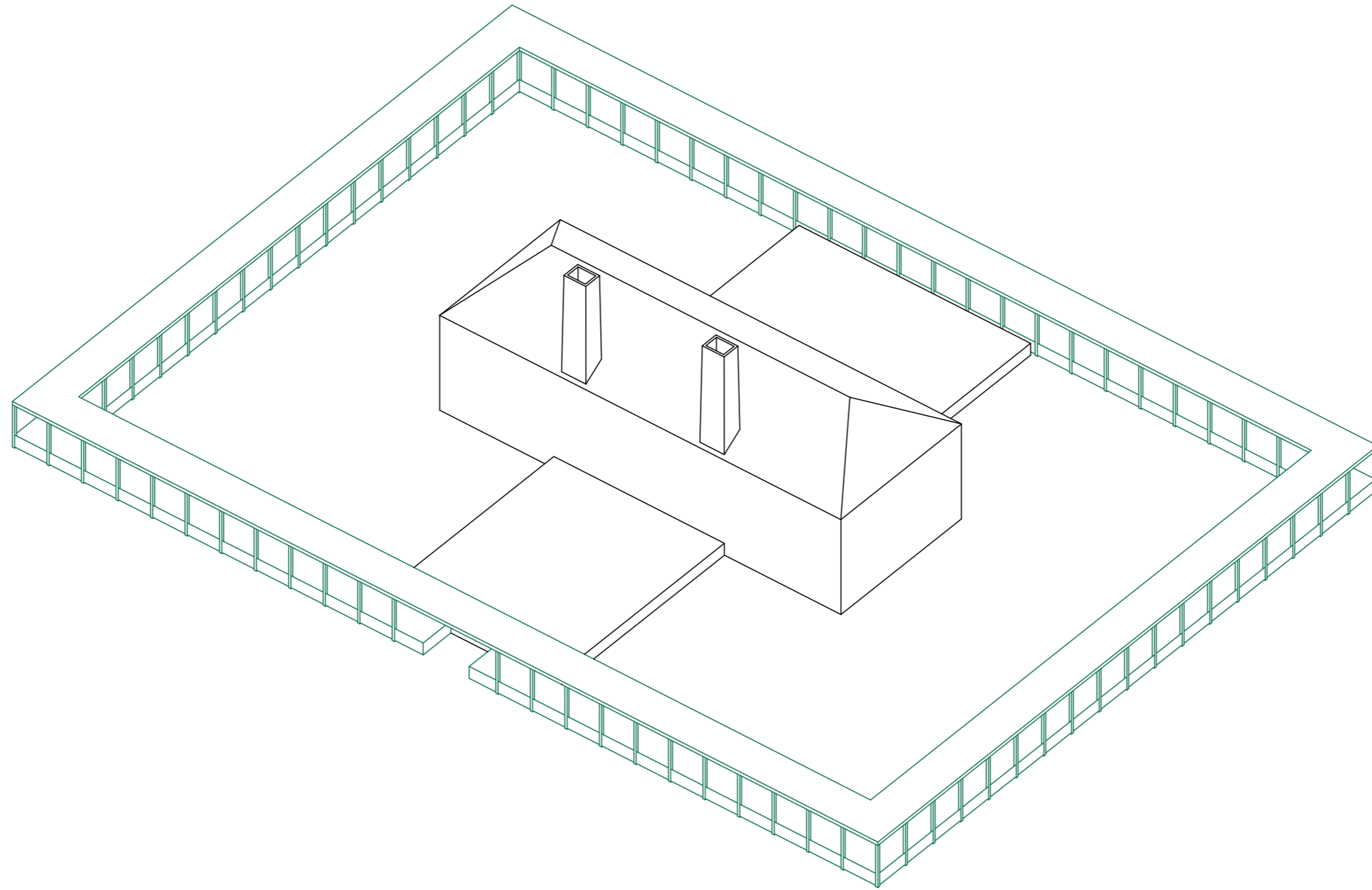
DESIGN RESULTS



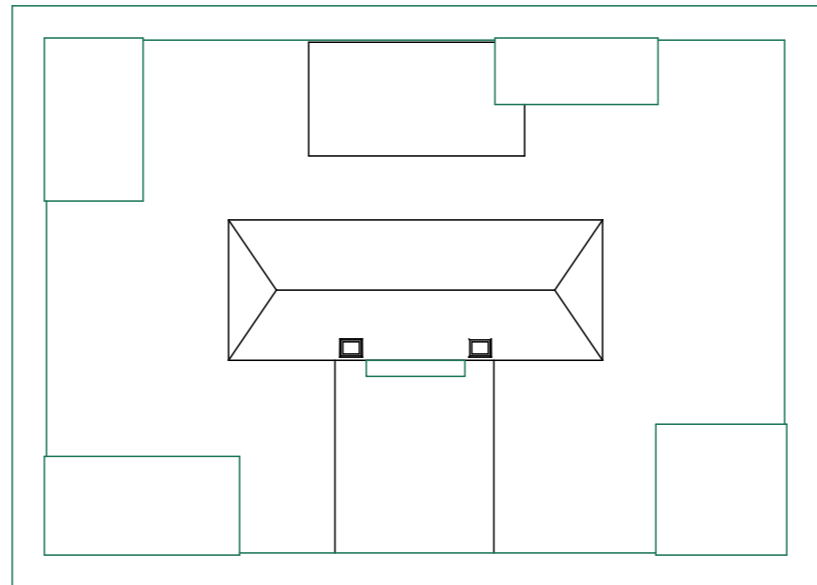
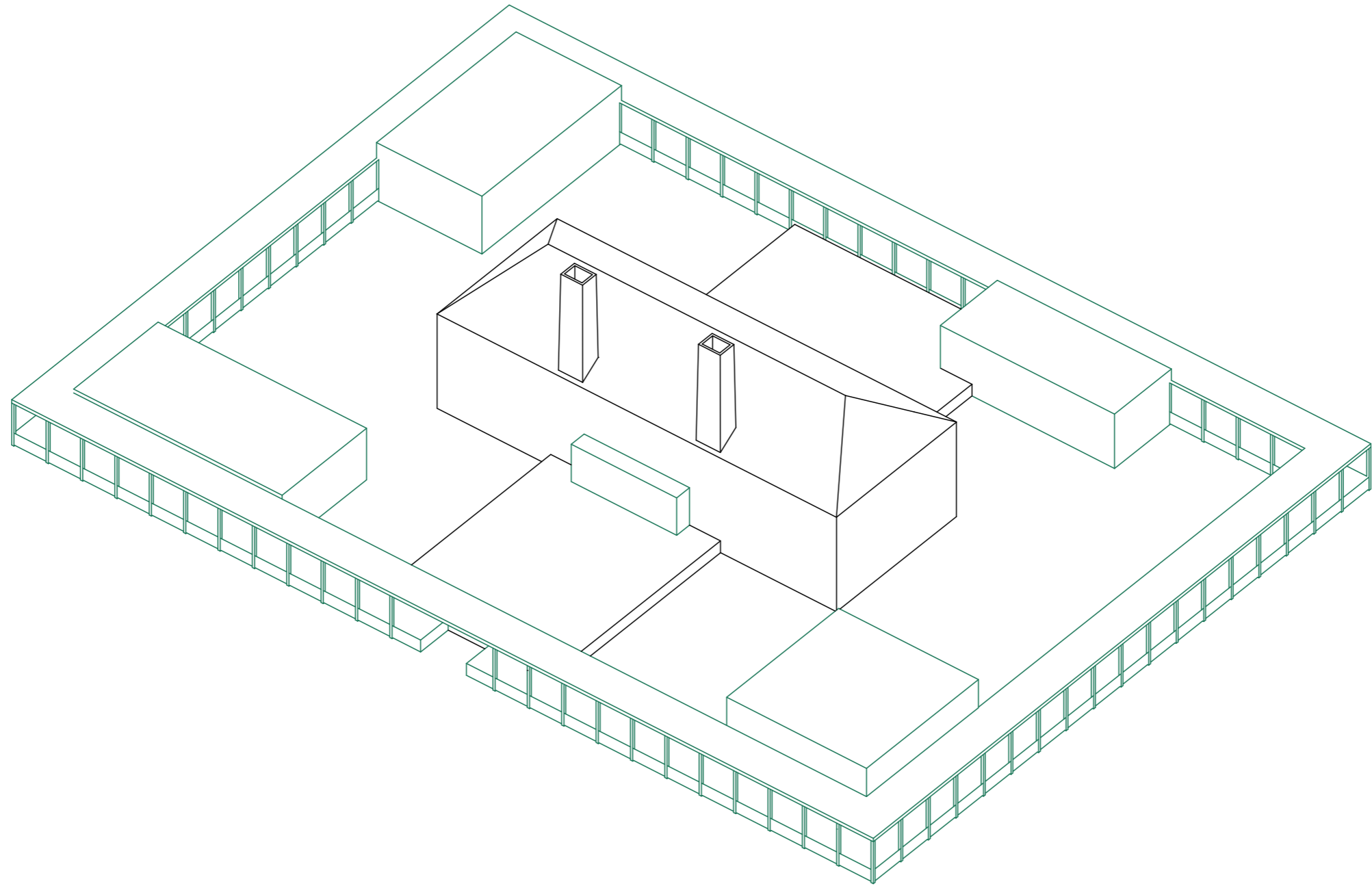
CONCEPT



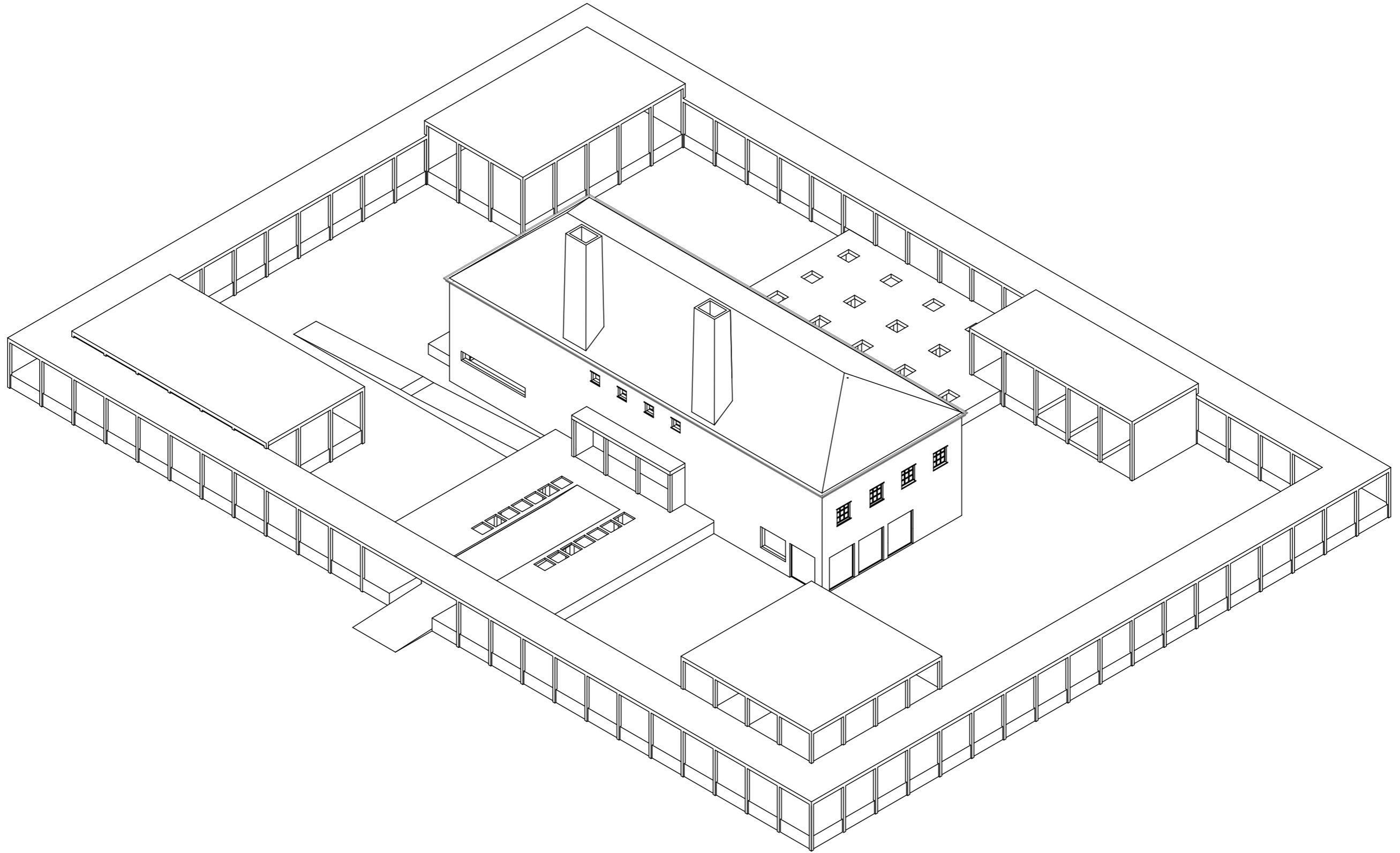
CONCEPT



CONCEPT



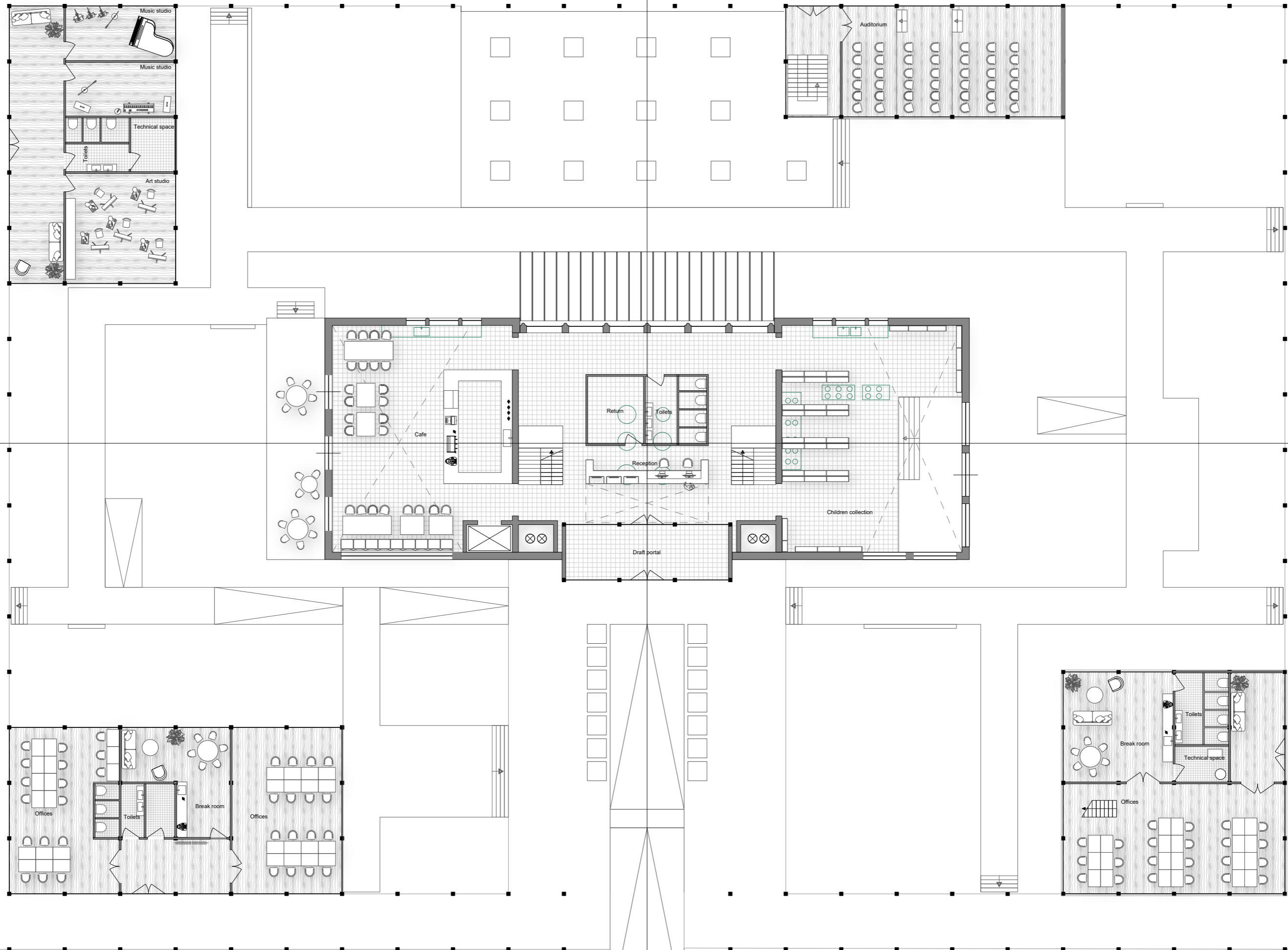
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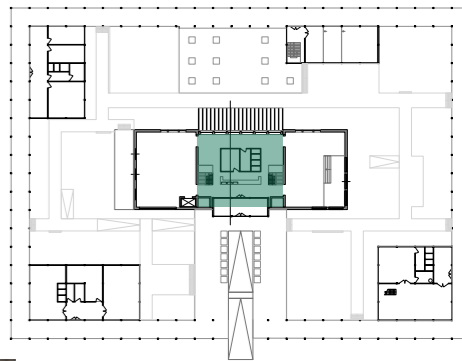


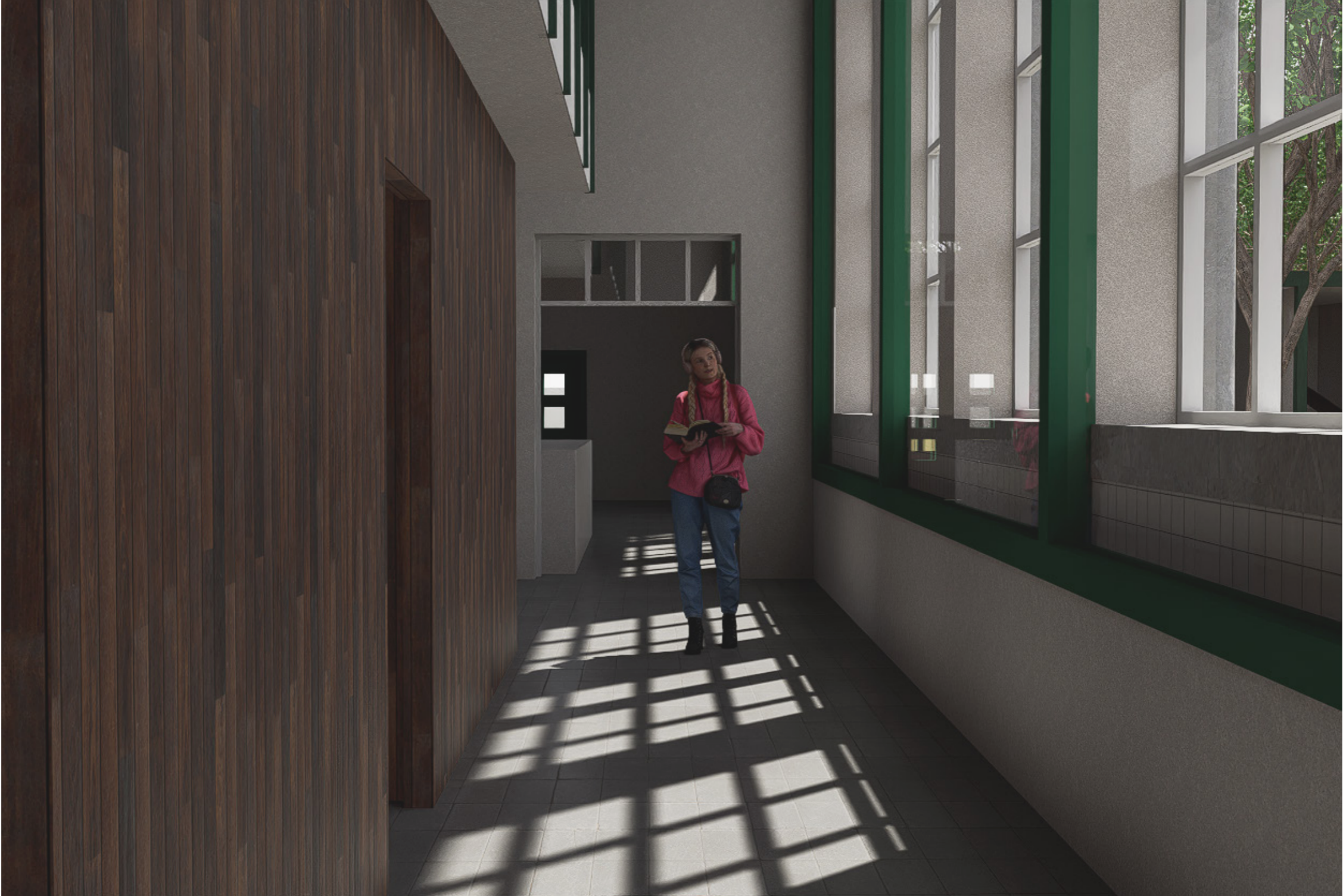
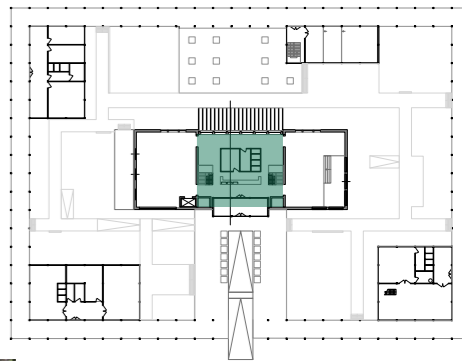
MASTERPLAN 1:500

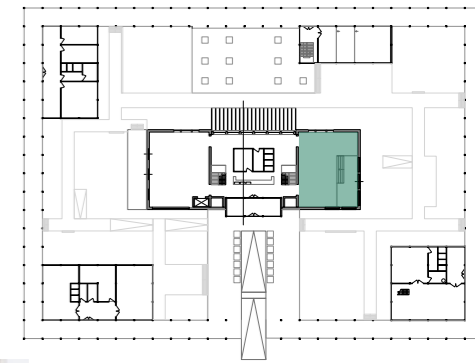


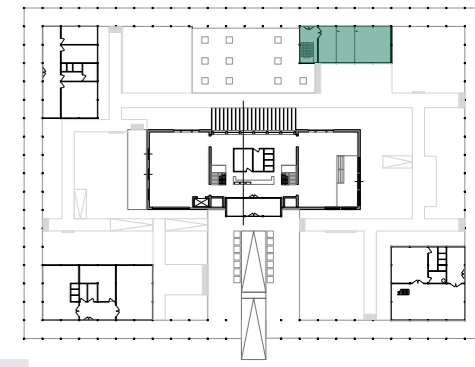
GROUND FLOOR 1:200



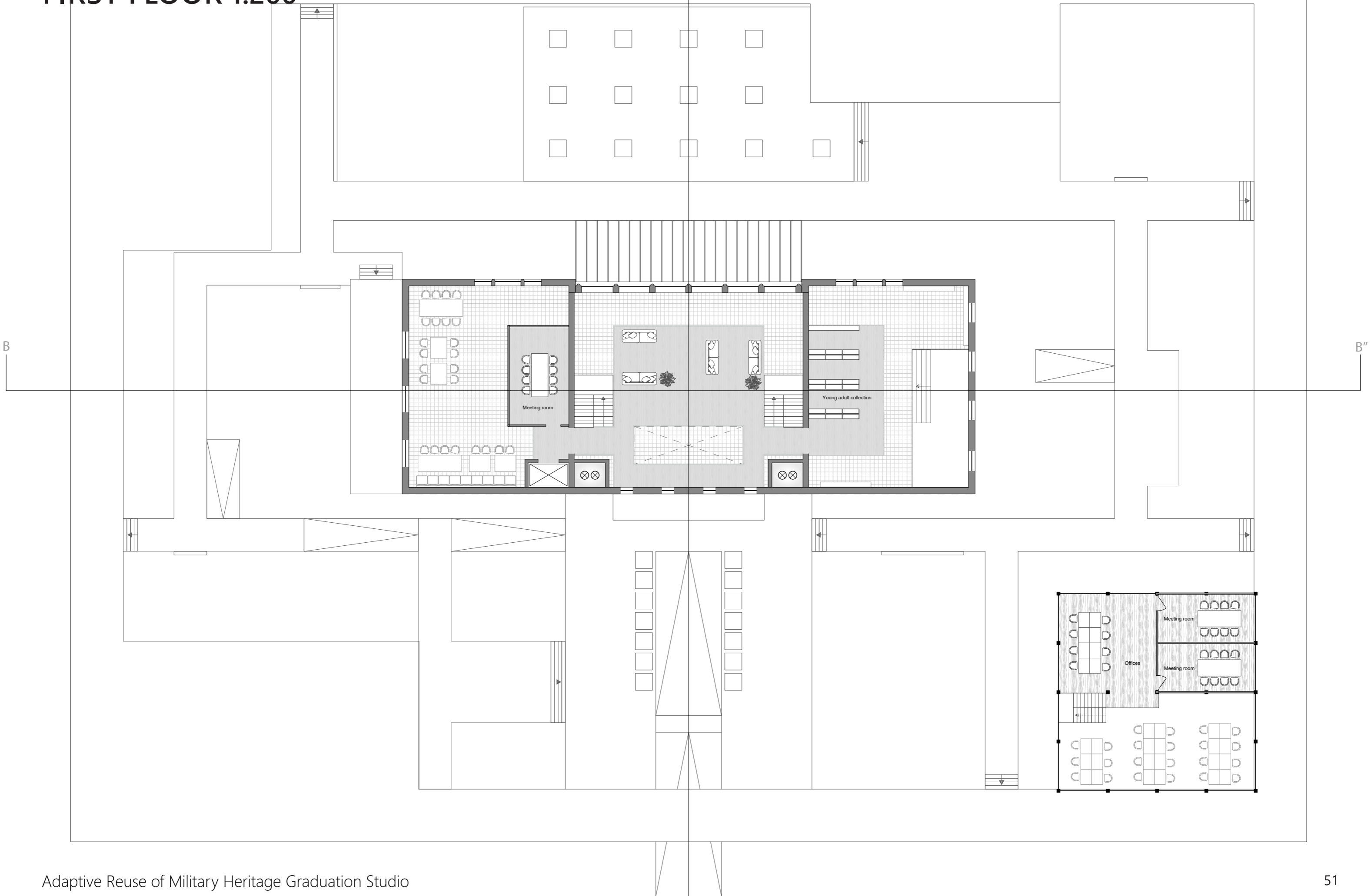


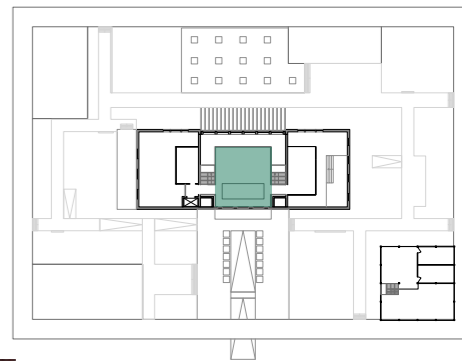


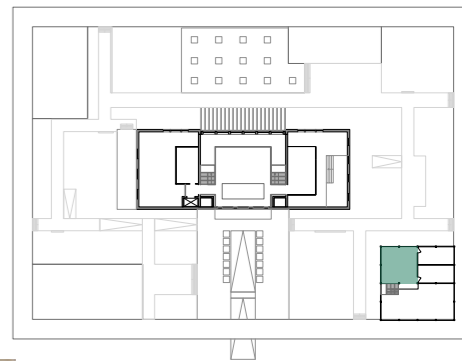




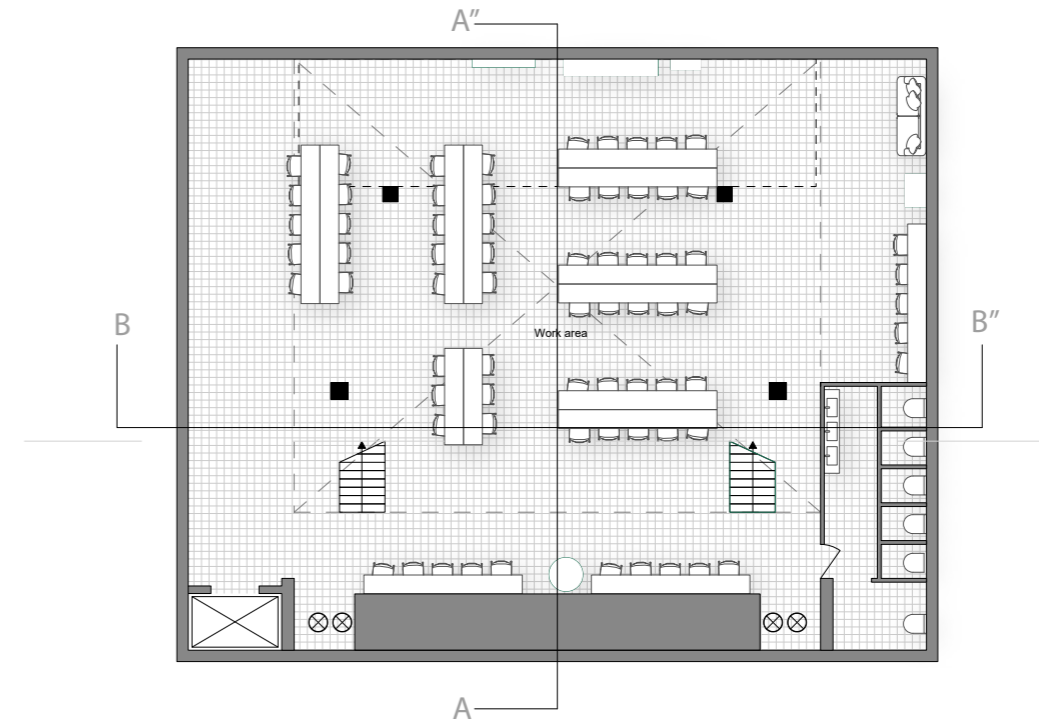
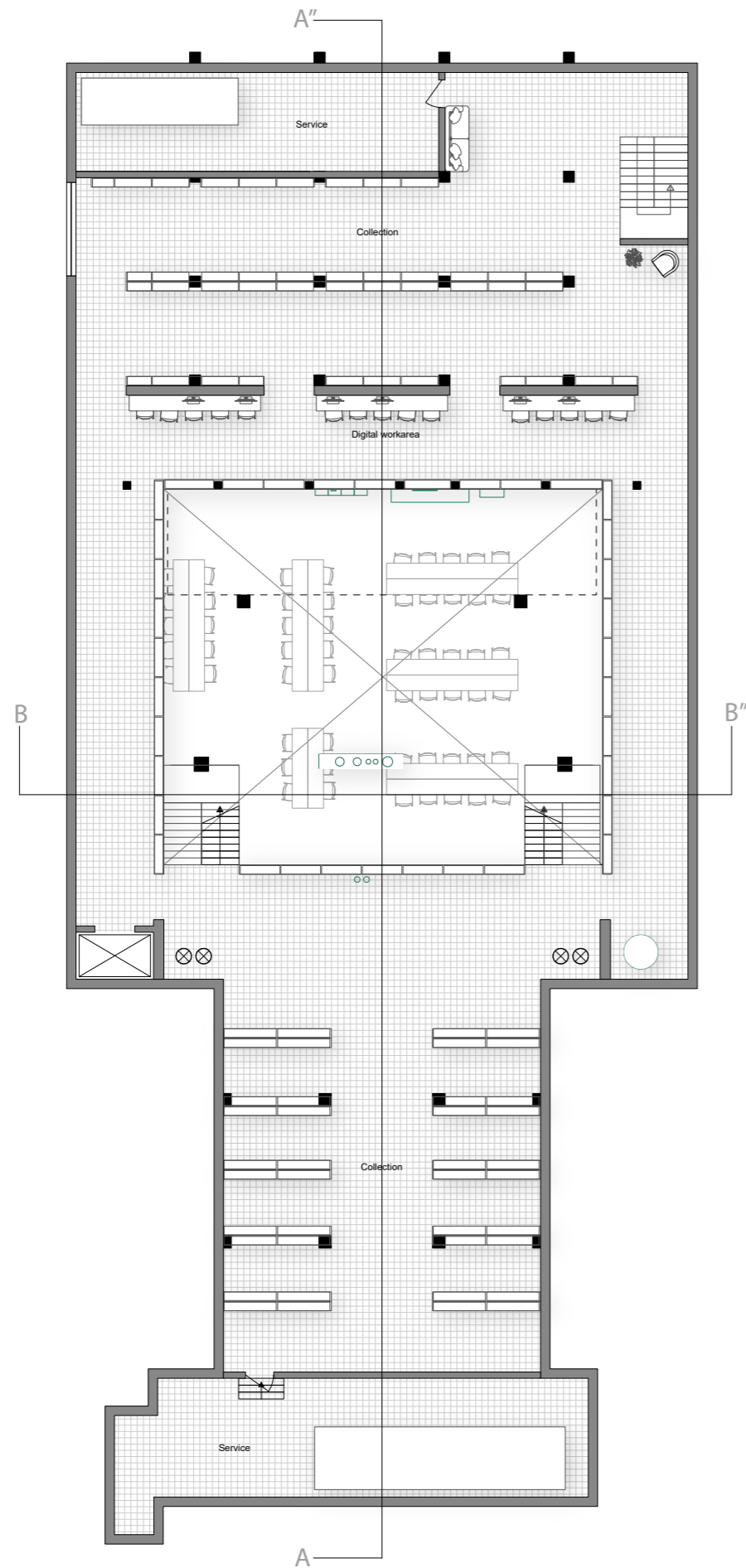
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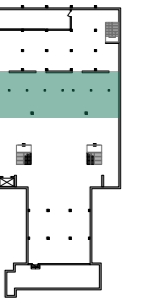




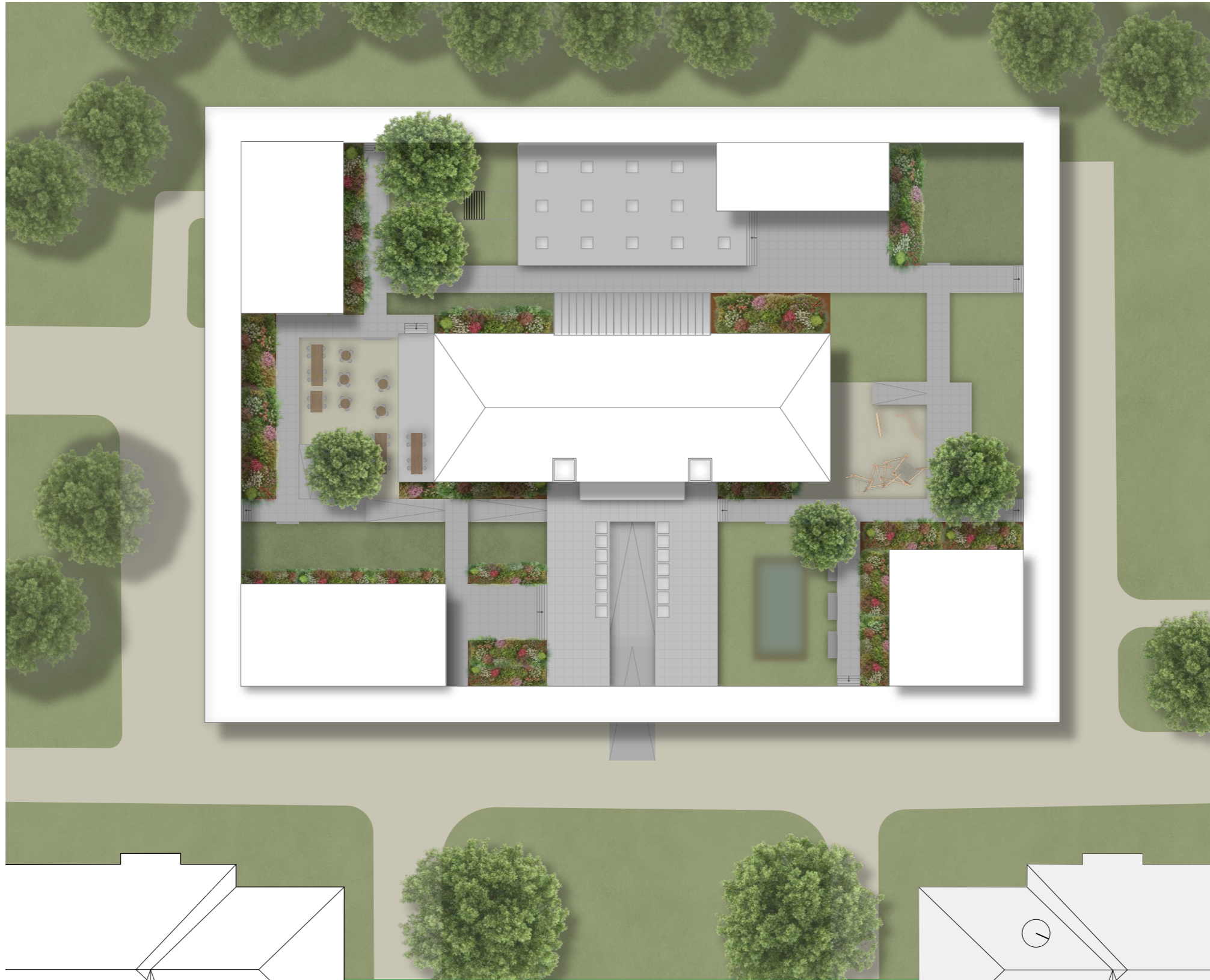


BASEMENT 1:200





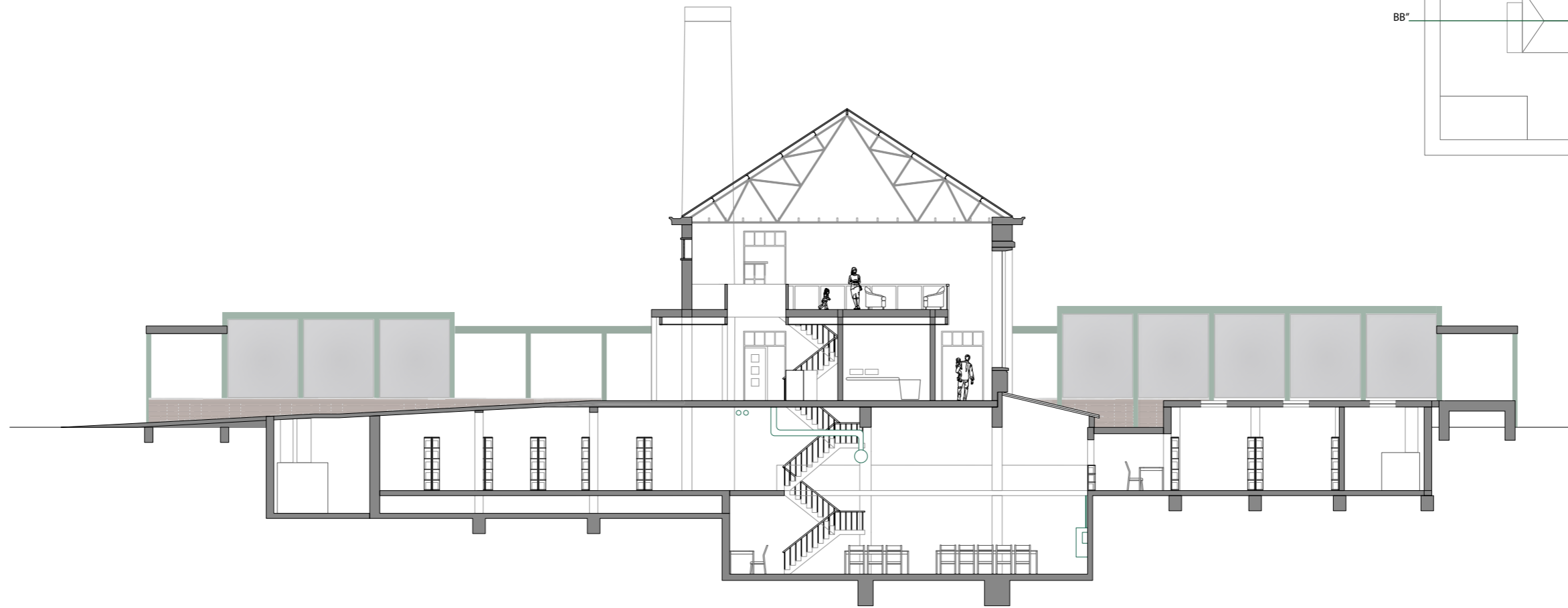
COURTYARD 1:250



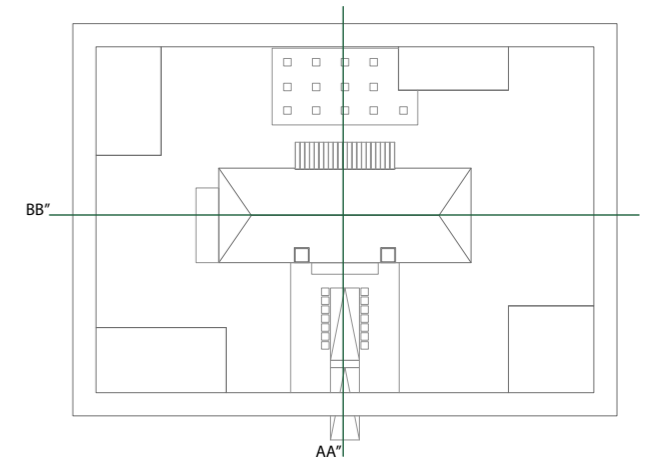




SECTIONS 1:200

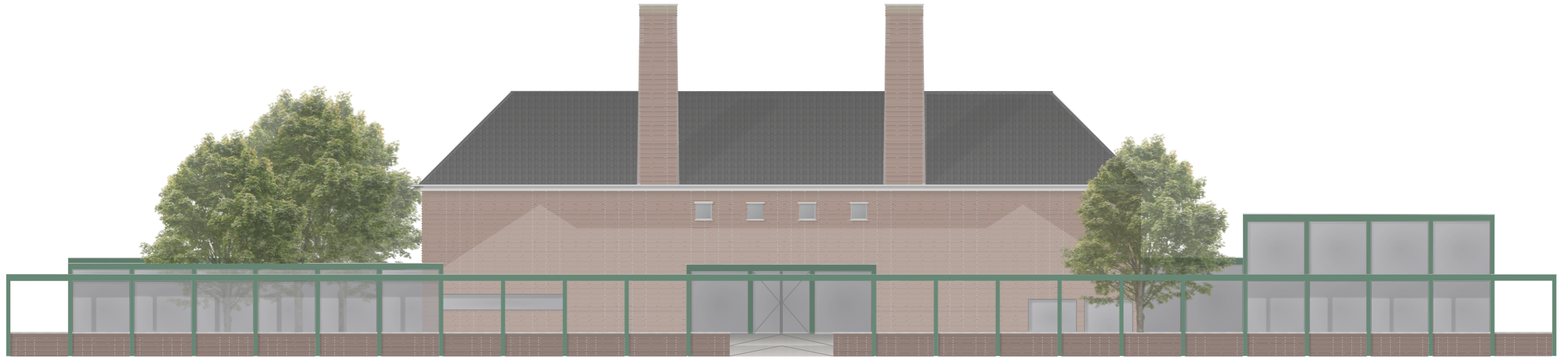


Section AA''

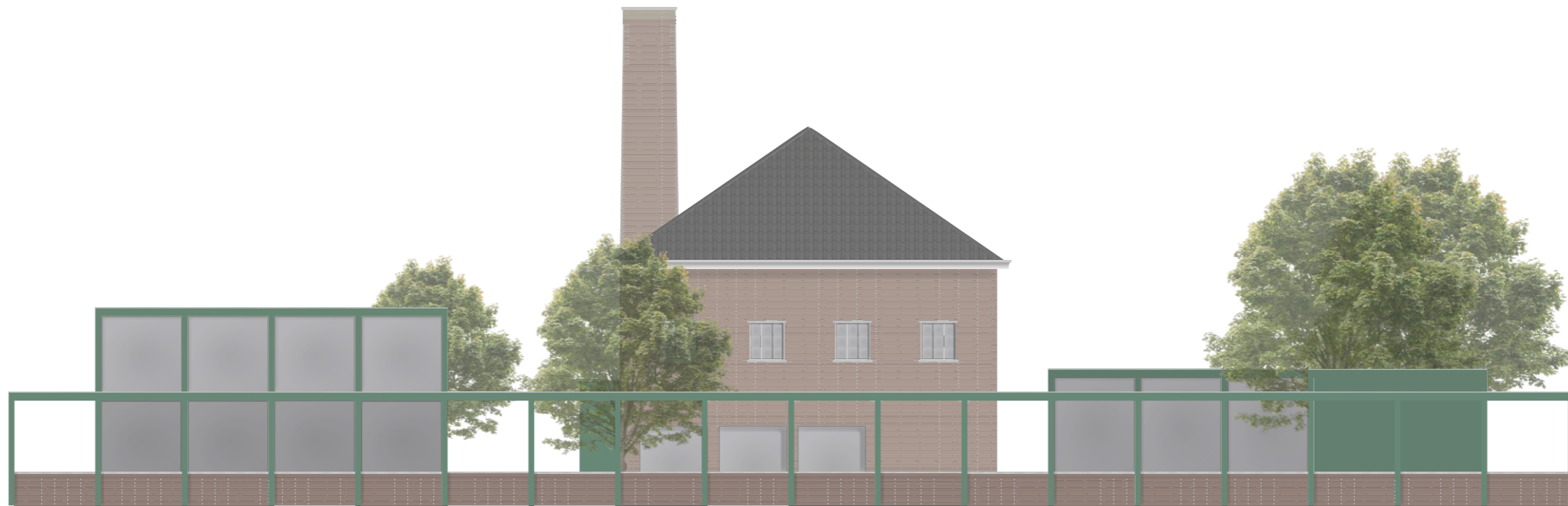


Section BB''

FACADE 1:200



North-East



North-West

FACADE 1:200



South-West



South-East

