P5

20.06.2024

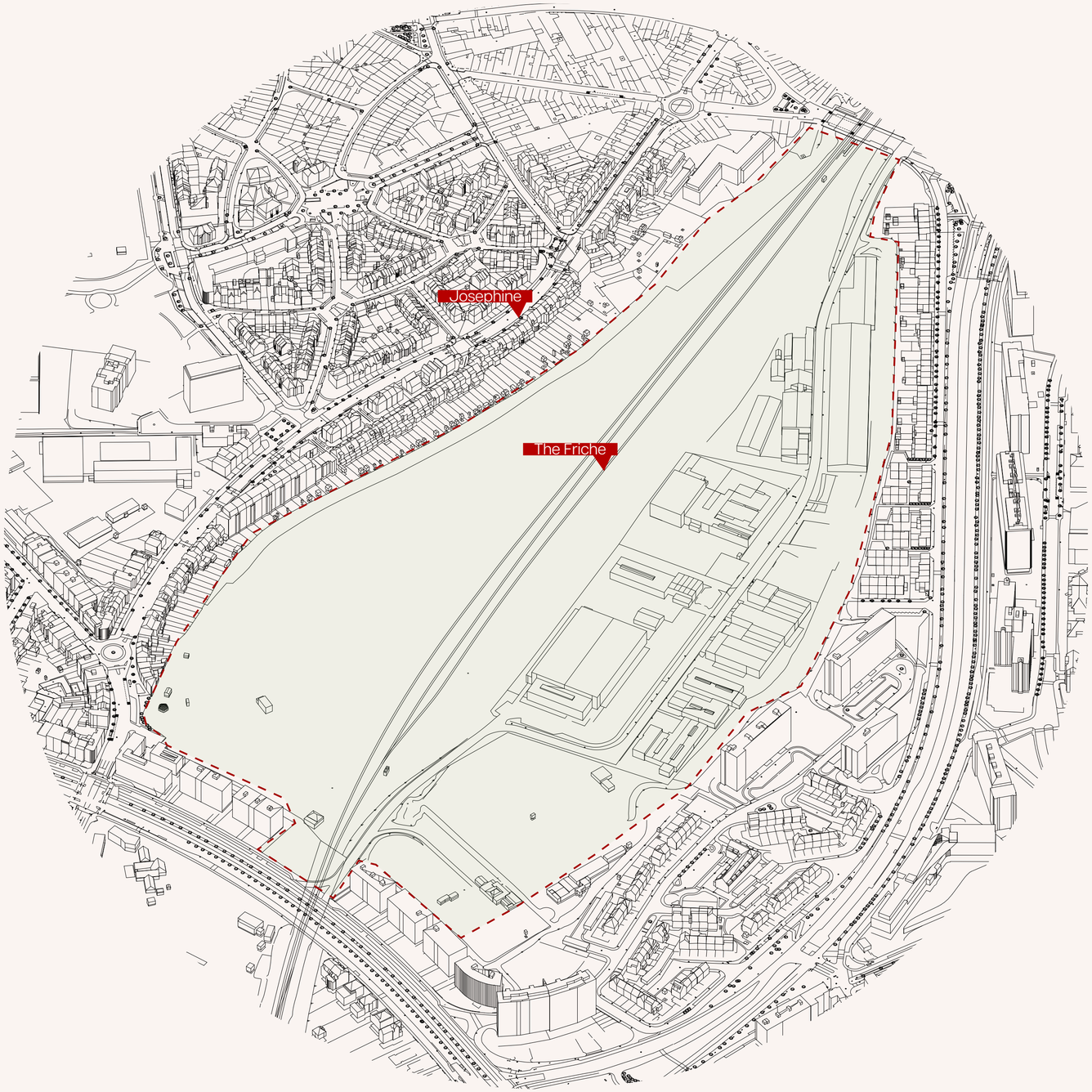
UA

Jelte van den Berg
Graduation studio
Urban Architecture: 'Last green in town'

Story

Josephine

Location



Ter Delt

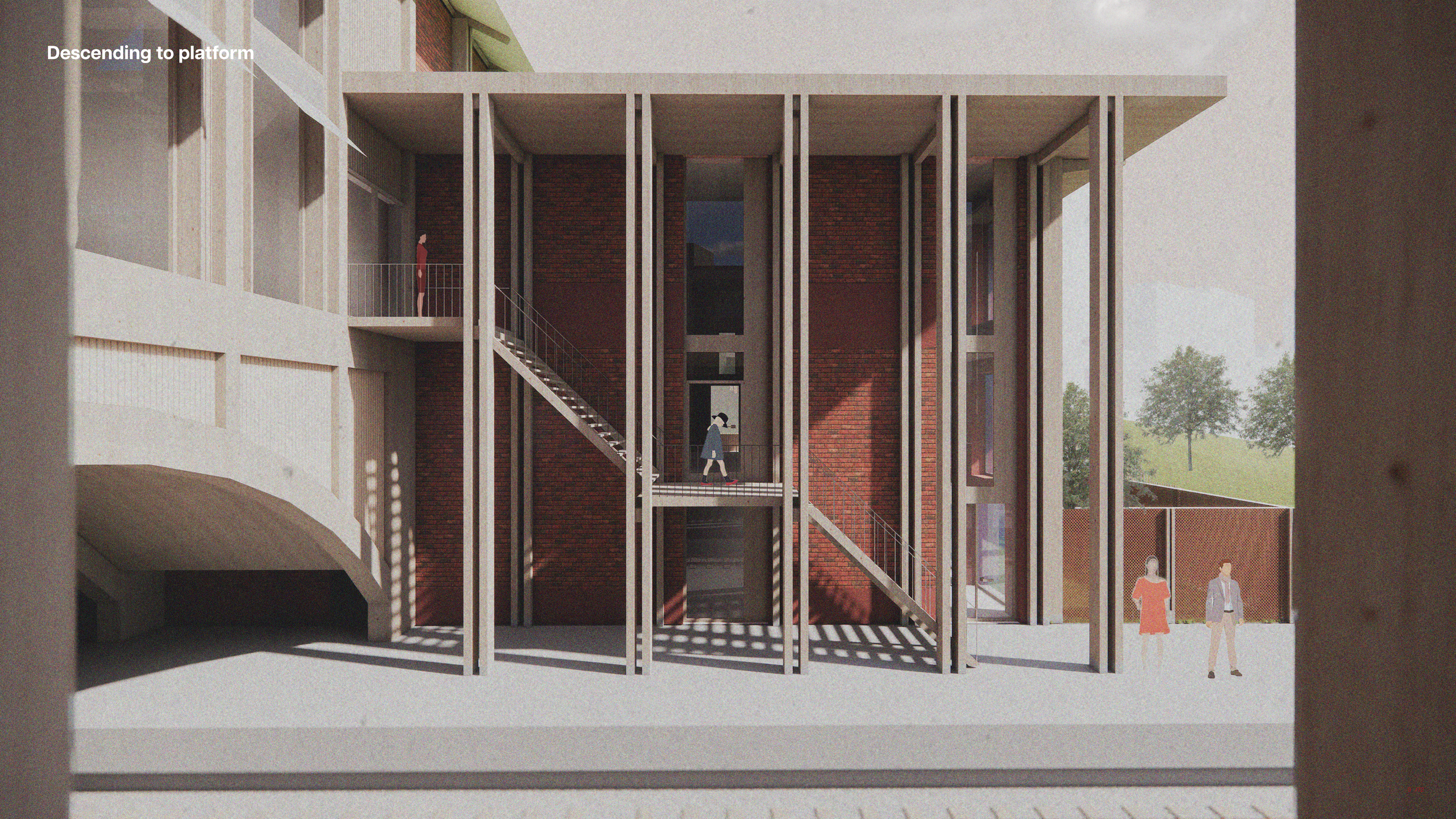
Spoting station

Station hall

Café

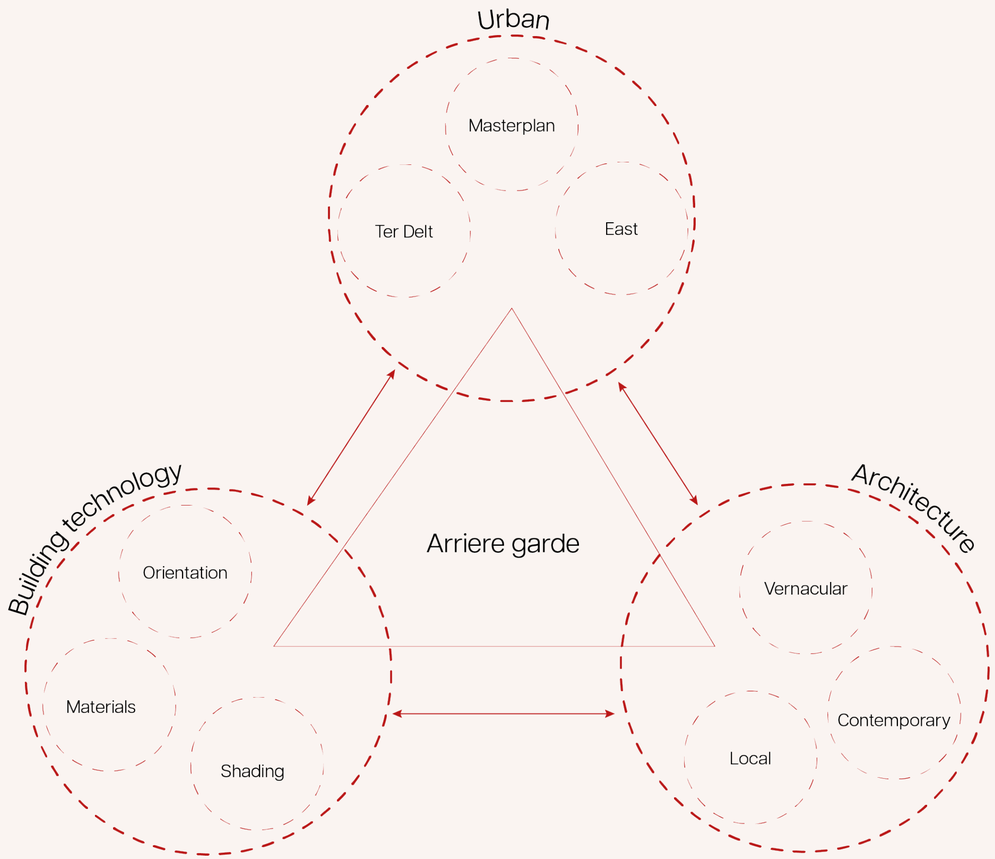
Library

Descending to platform



Northern quarter

Story of connection



Content

Part I Relevance + research
Part II Masterplan
Part III Architecture
Part IV Building Technology

PART I

Introduction and Research

Site visit

Friche

Photograph Friche

Northern quarter

Photograph Nothern Quarter

Research topic

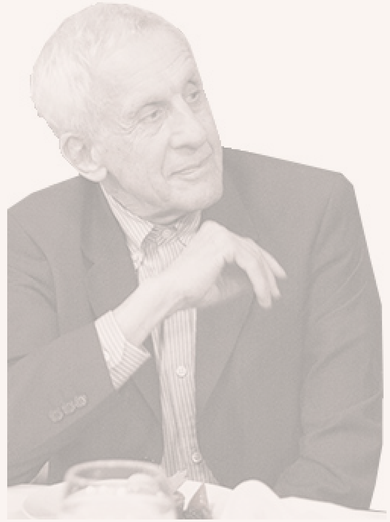
Photograph Nothern Quarter

Homogenized architecture:

An architecture that has no connection to the local culture, context, history, and building methods.

Research question

How can architecture **connect** to and **stimulate** the **local architectural identity**?



Frampton, 1983

‘A critical arrière-garde has to remove itself from both the optimization of advanced technology and the ever-present tendency to regress into nostalgic historicism or the glibly decorative’

Inspirational sources

Arriere garde Project:

Historical context + Local context = Contemporary vernacular

Source I: vernacular architecture

Vernacular architecture Belgium (open air museum)

Vernacular architecture:

a type of local construction influenced by geography, available materials, climate, traditions, and culture.

Principle 1

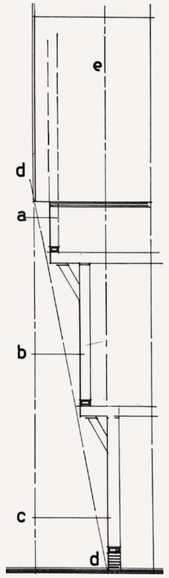
Make use of local materials and use them in their full potential

Timber in the Sonion forest

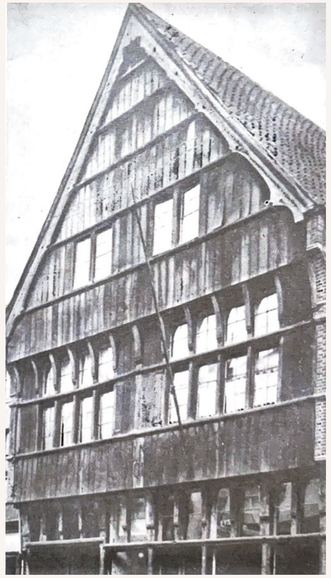
Loam bricks from BC materials

Principle 2

‘Design’ features can be used with regard to climatic benefits

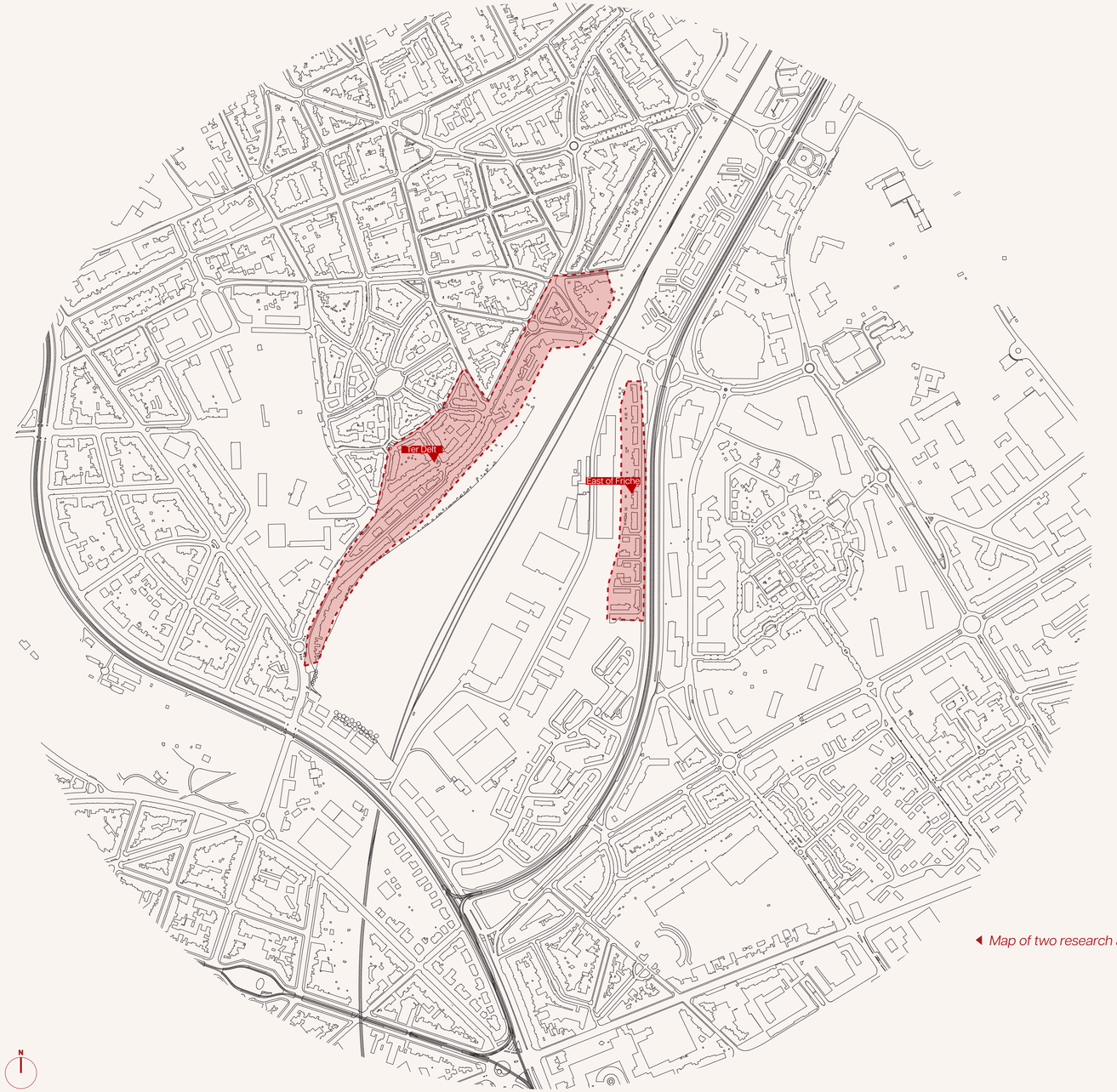


Section cantilever technique



Mechelen, cantilever technique

Source II: local identity



Map of two research areas

Photo report: identity of the friche

Massing photoreport

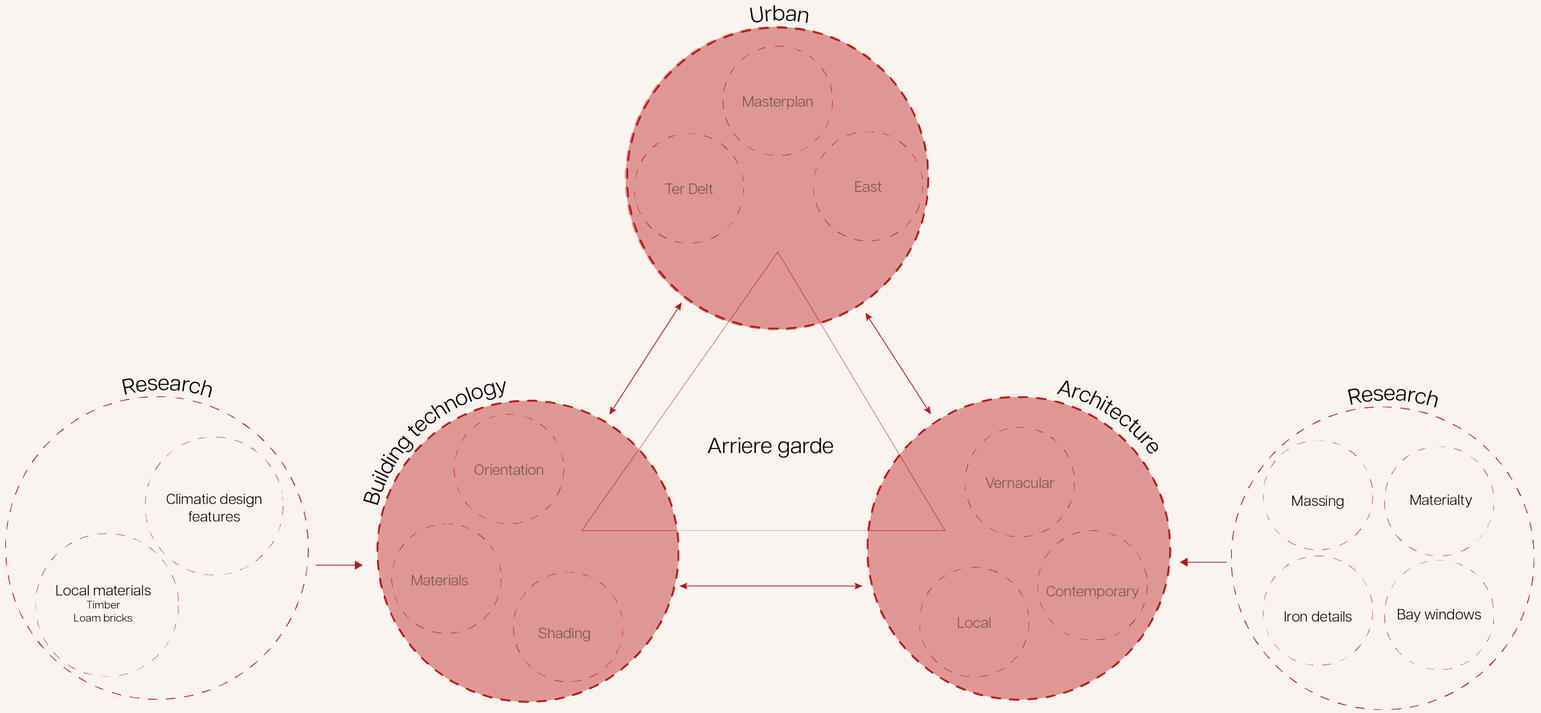
Materiality photoreport

Photo report: identity of the friche

Iron detailing photoreport

Bay windows photoreport

Research summary



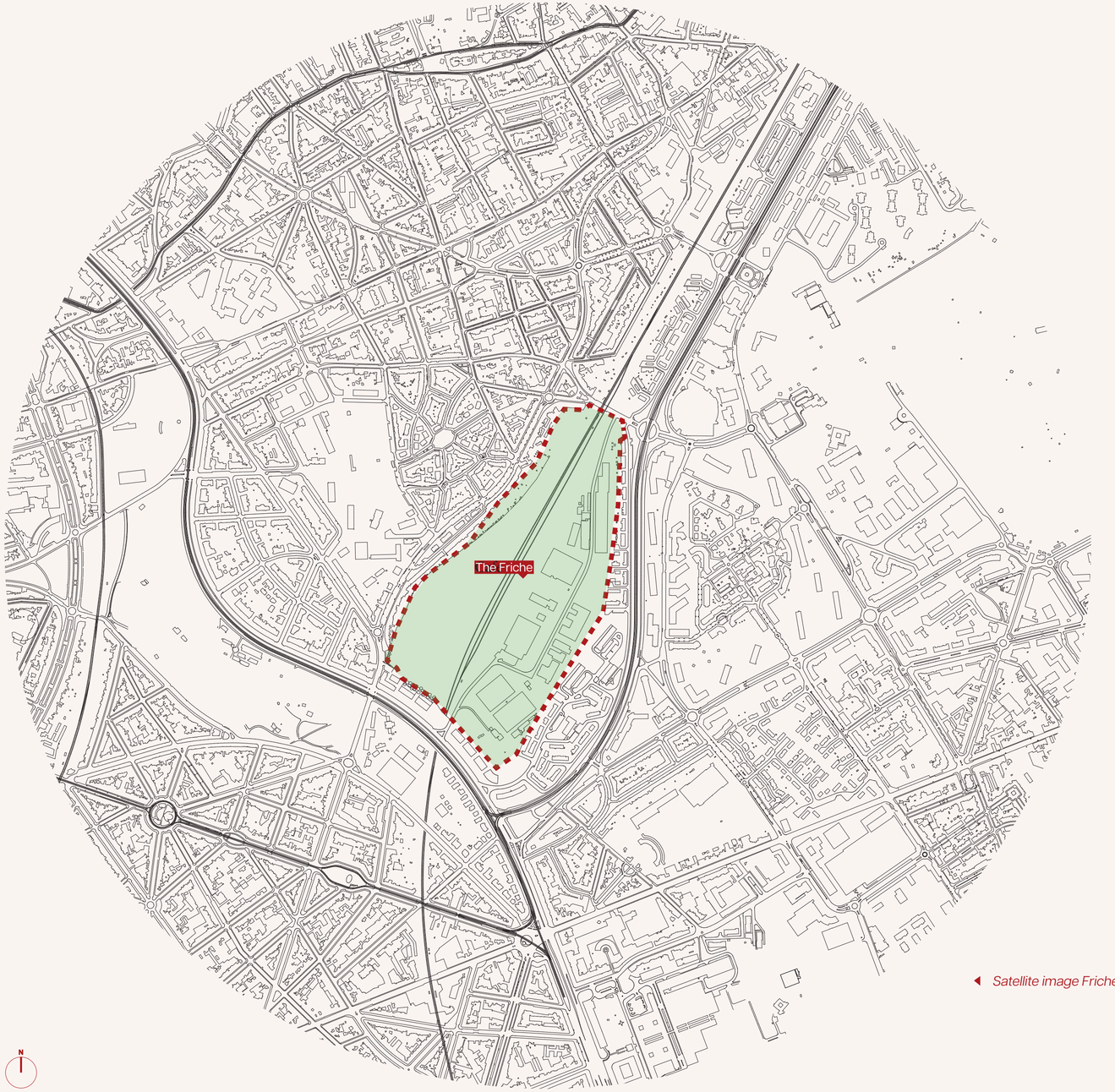
PART I

Introduction and Research

PART II

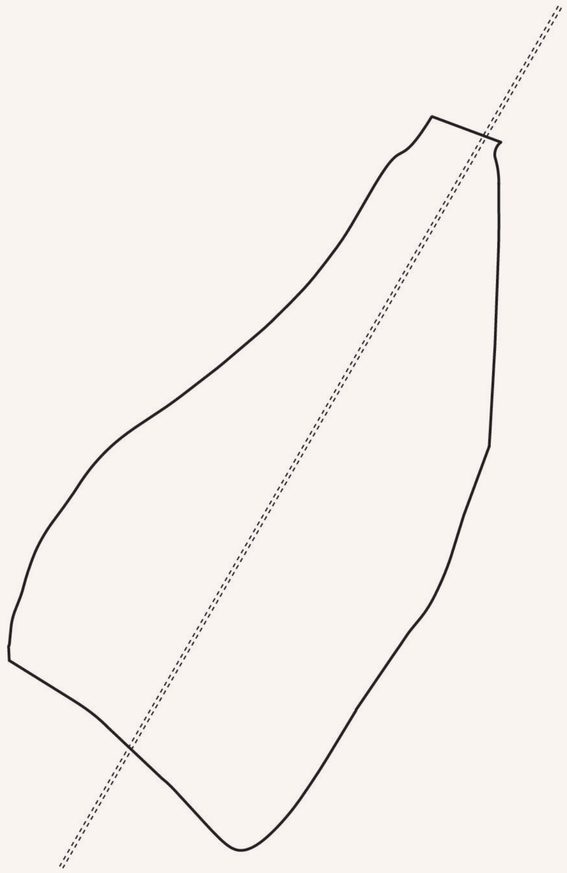
Masterplan

Masterplan location



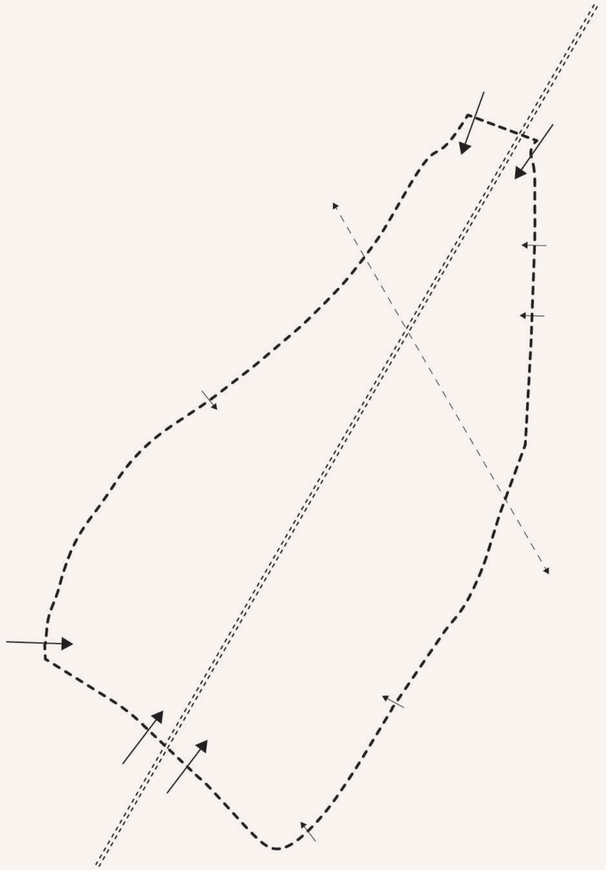
Satellite image Friche

Concept: current Friche



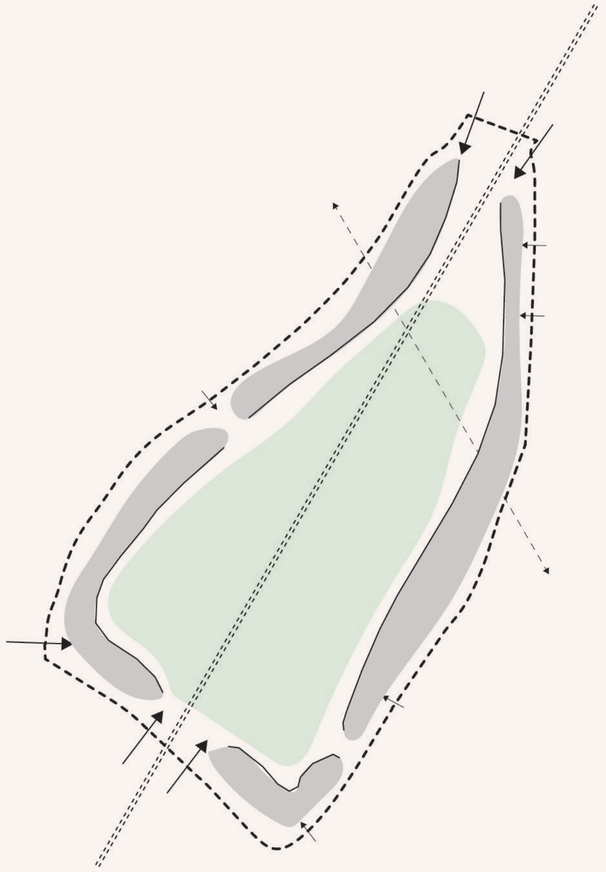
Concept existing

Concept: making boundaries poreus



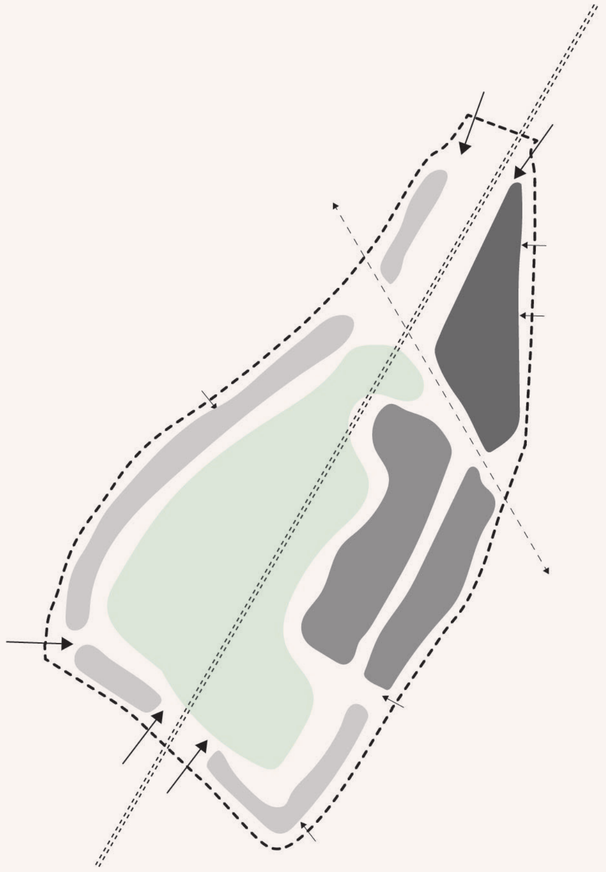
Concept poreus

Concept: buildings alongside the edges



Concept buildings

Concept: differentation in urbanity



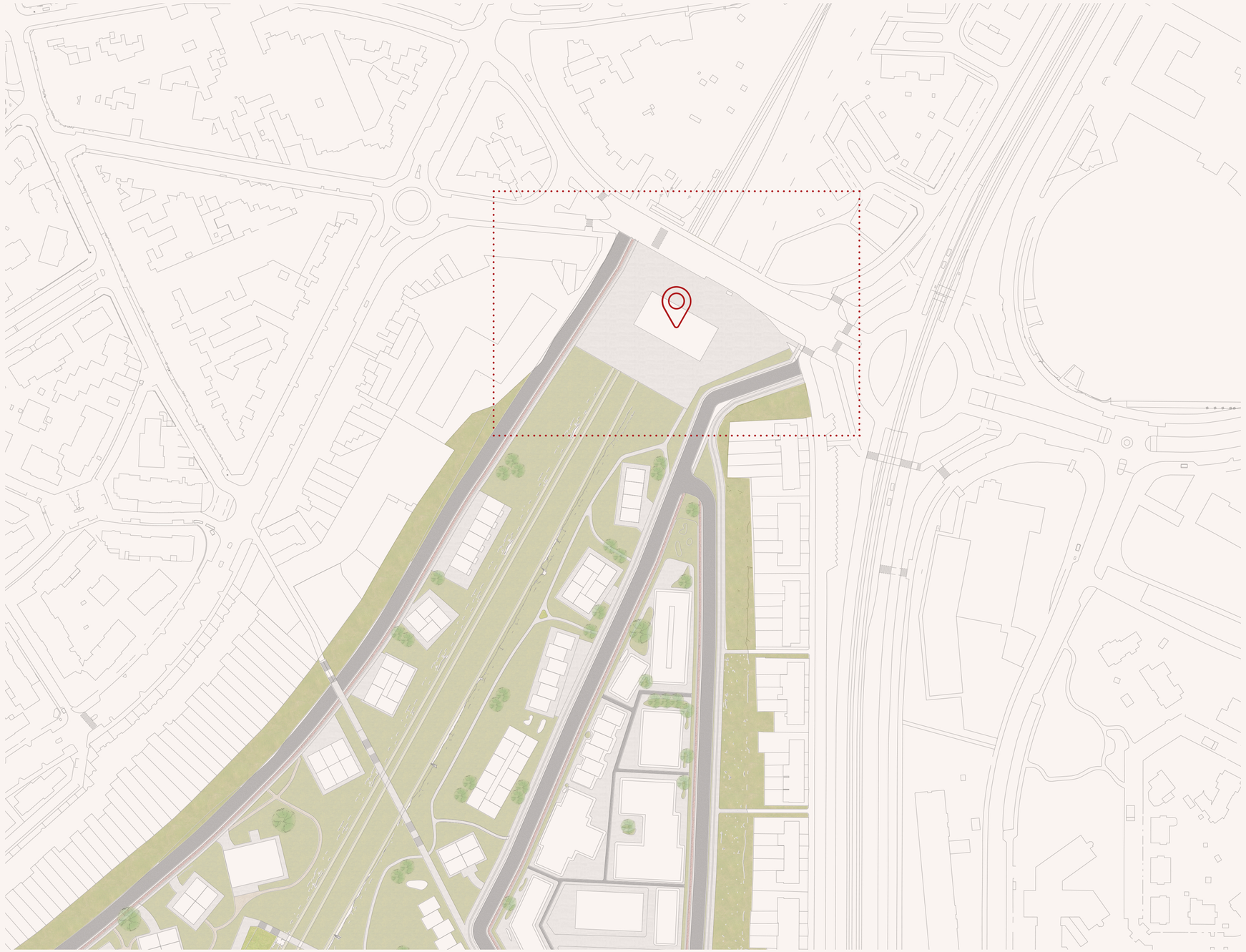
Concept urban themes

The masterplan

New masterplan

Impression wildlife

Building location

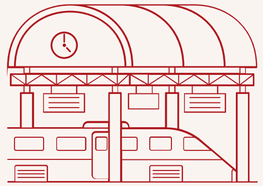


Masterplan

Programme

Library (1800 m2)
Book lend area
Study rooms
Reading rooms

+



Trainstation (200 m2)
Waiting areas
Platforms

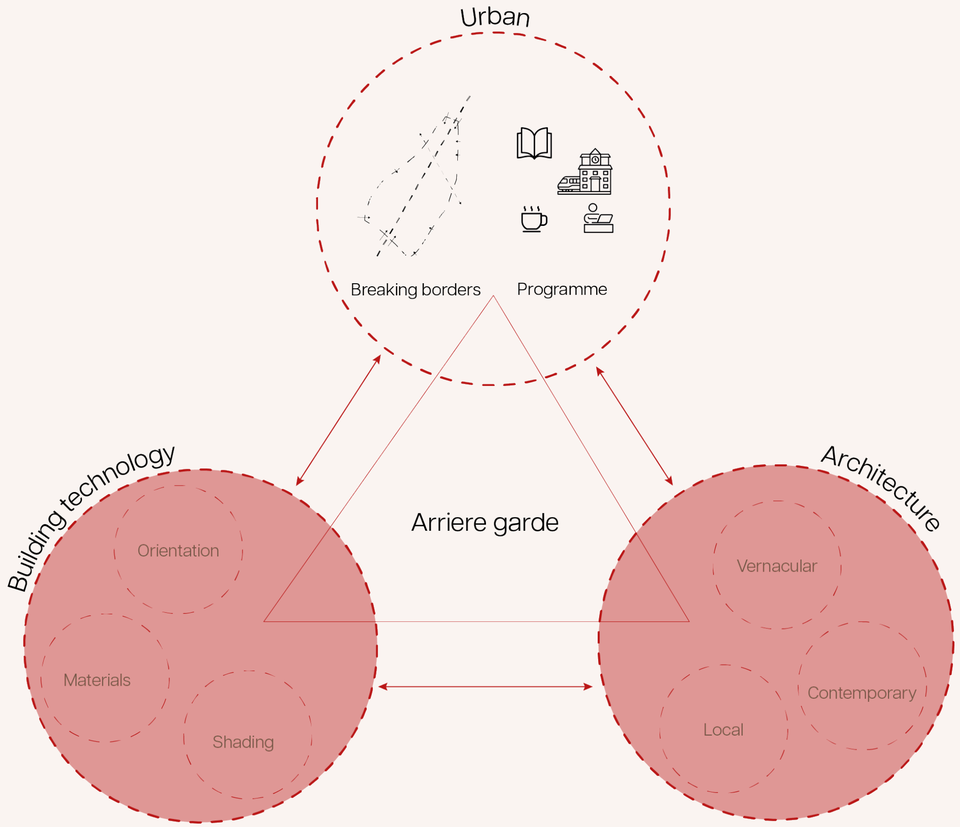
+

Co-working (400 m2)

+

Bakery/coffee bar (500 m2)

Masterplan summary



PART I

Introduction and Research

PART II

Masterplan

PART III

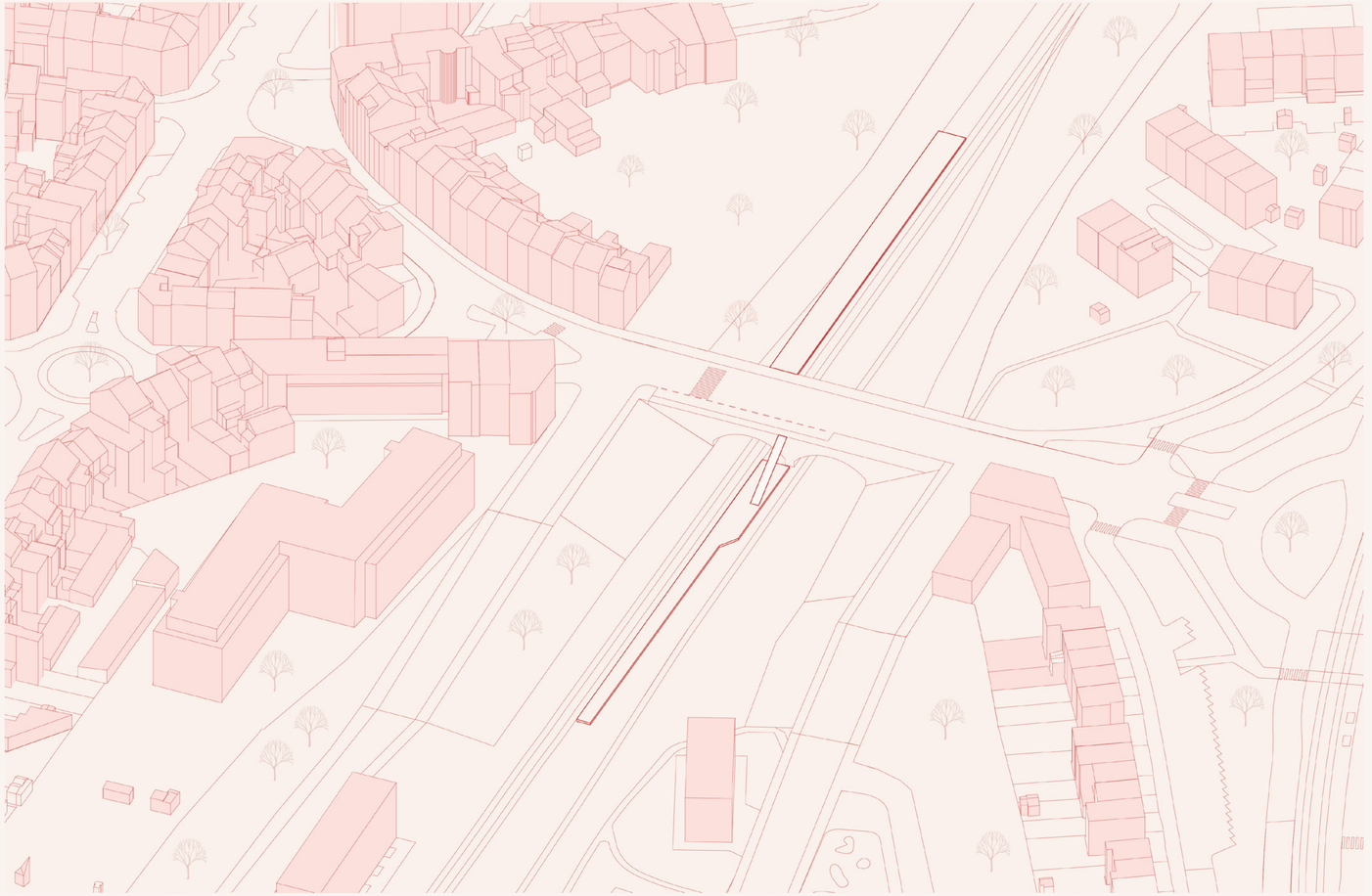
Architecture

Design concept

Current - satellite image

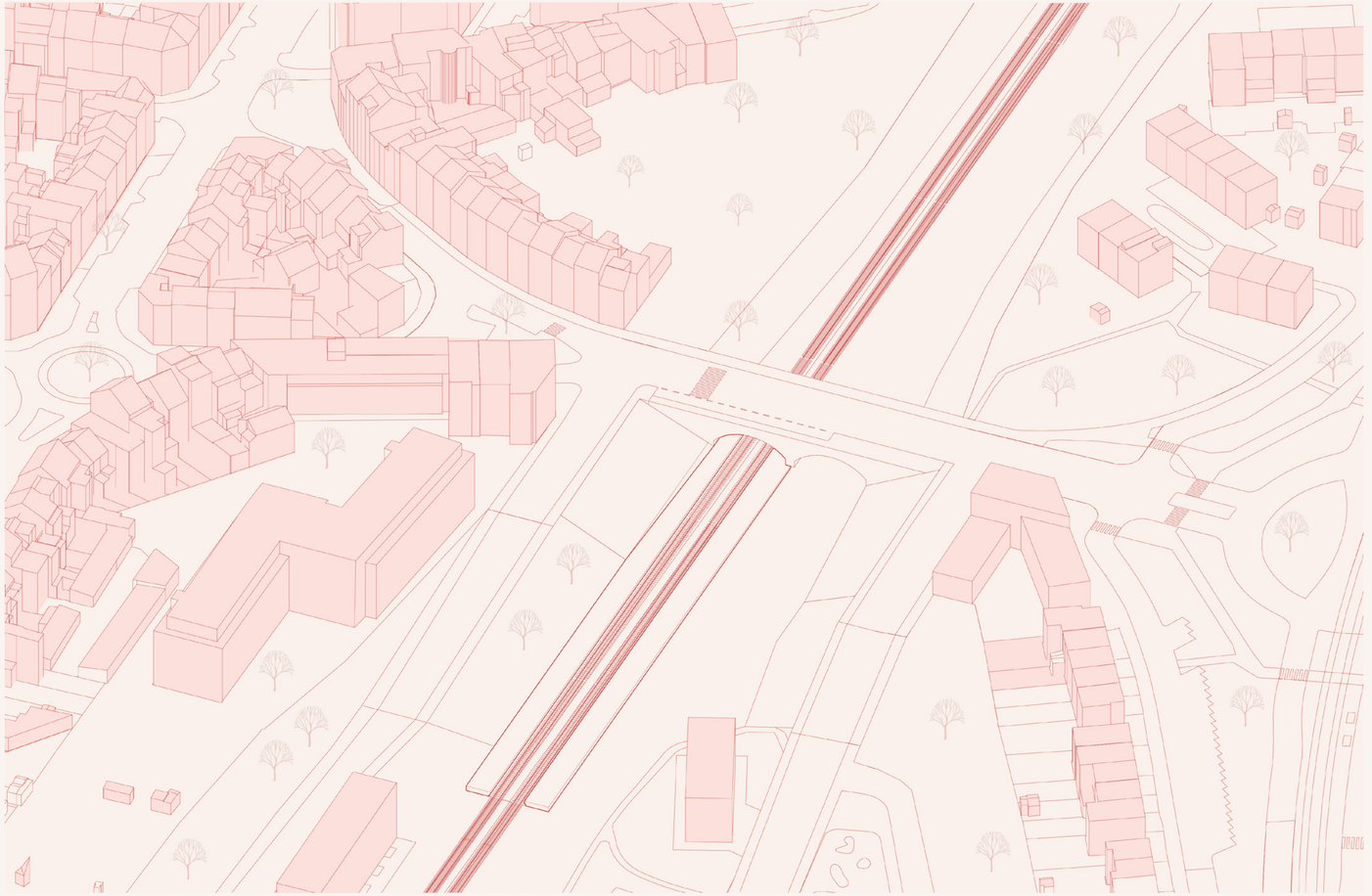
Design concept

Current - abstracted version



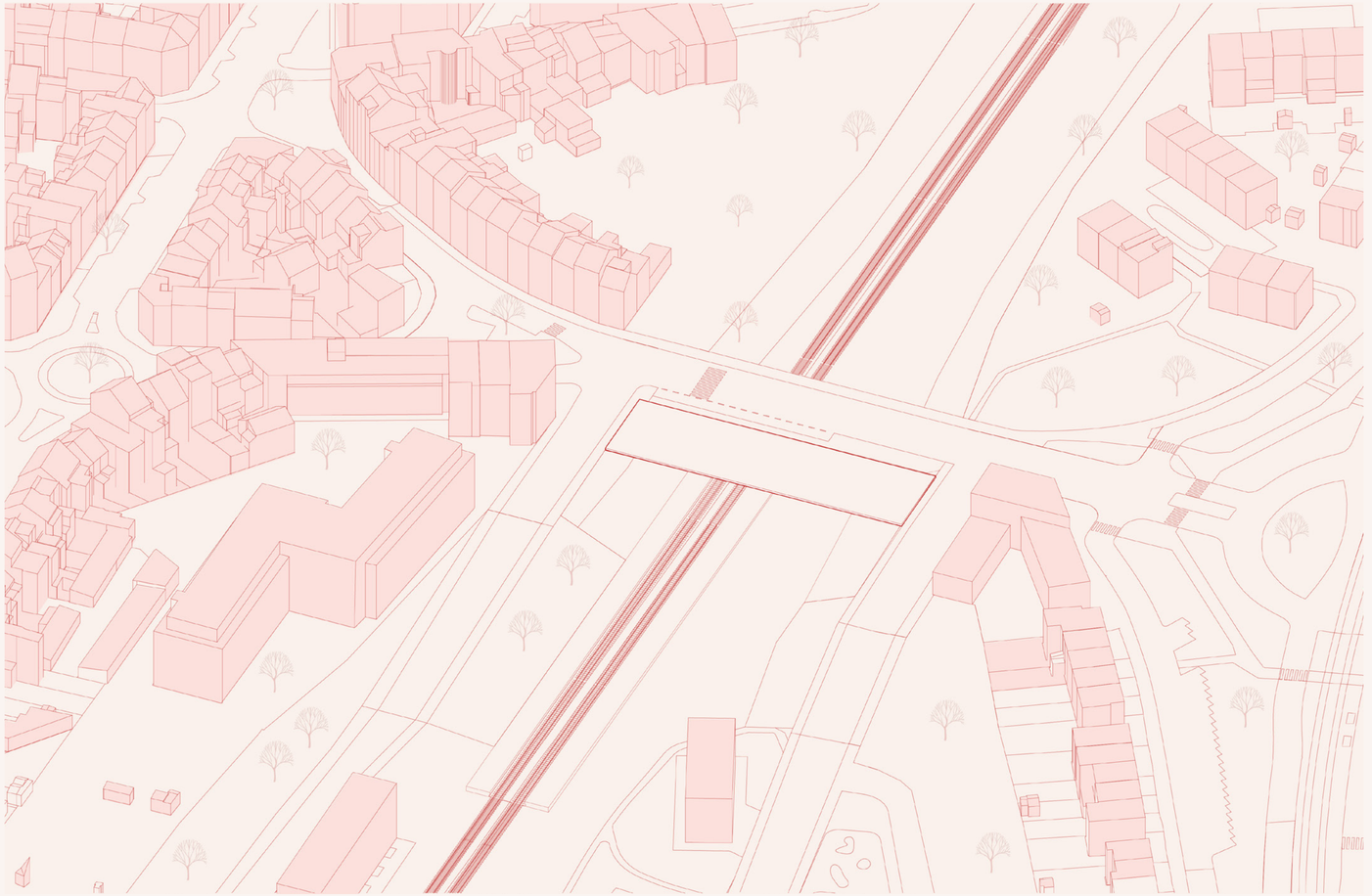
Design concept

Platforms to south side



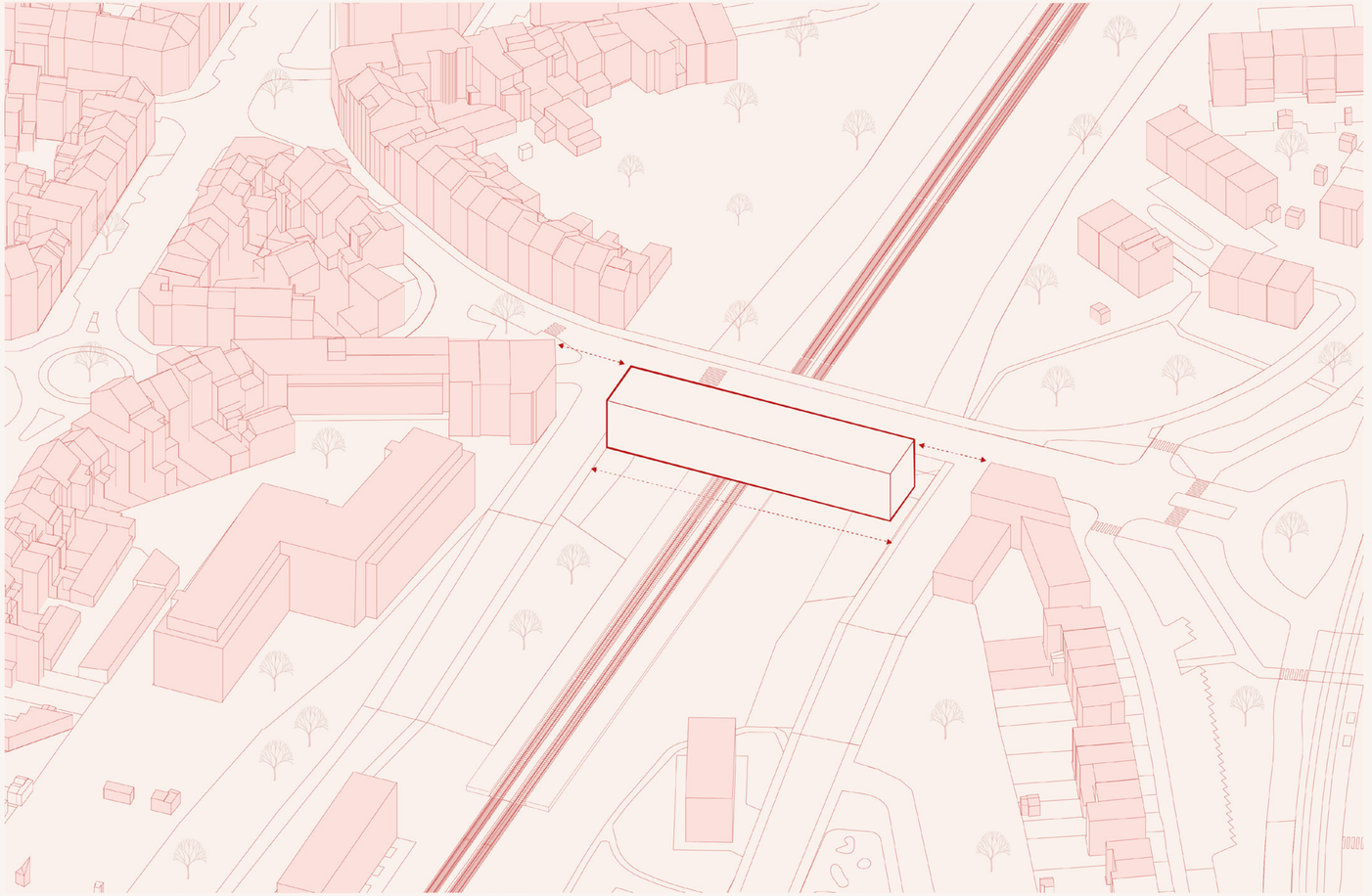
Design concept

Extending bridge



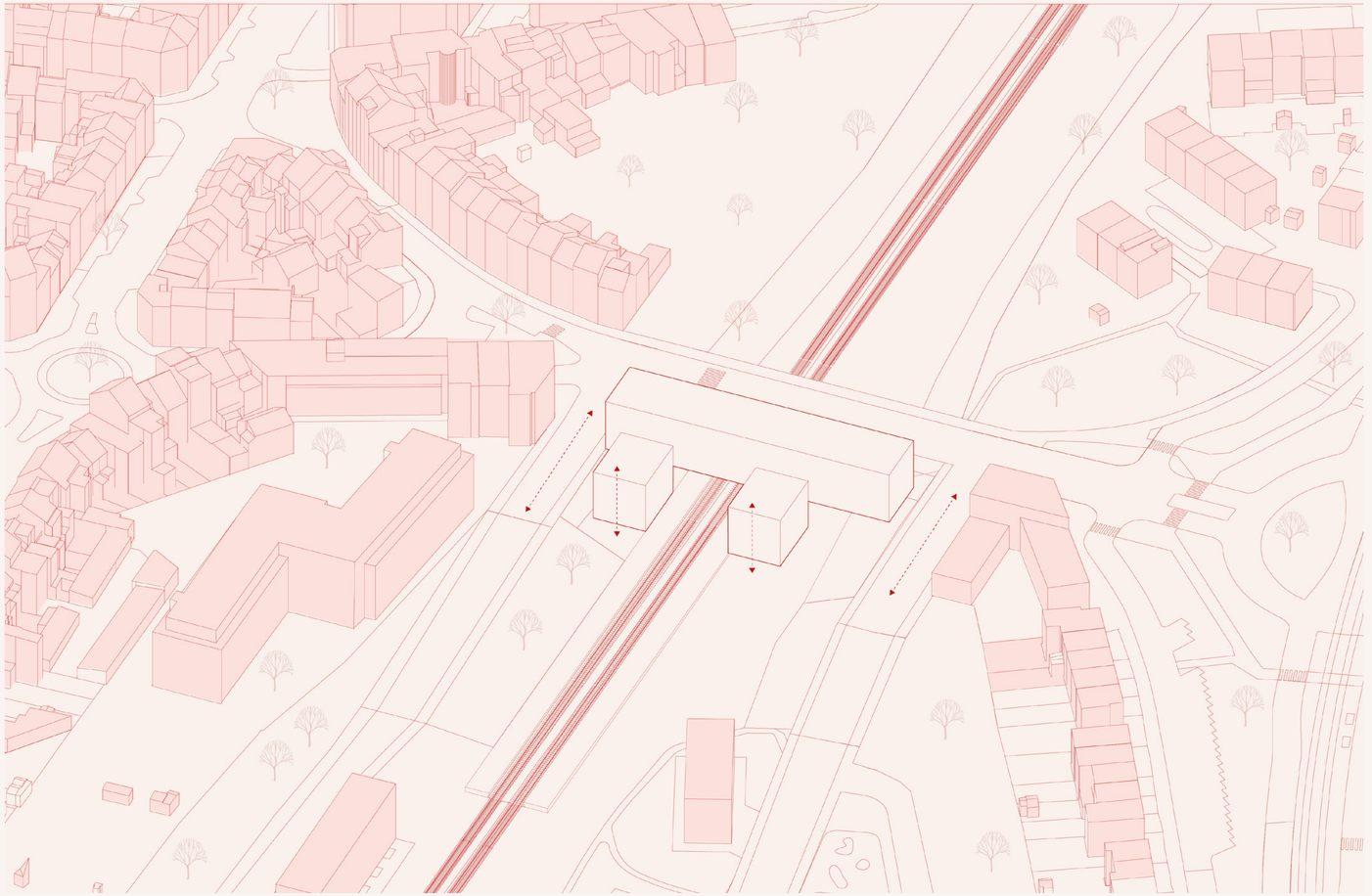
Design concept

General volume



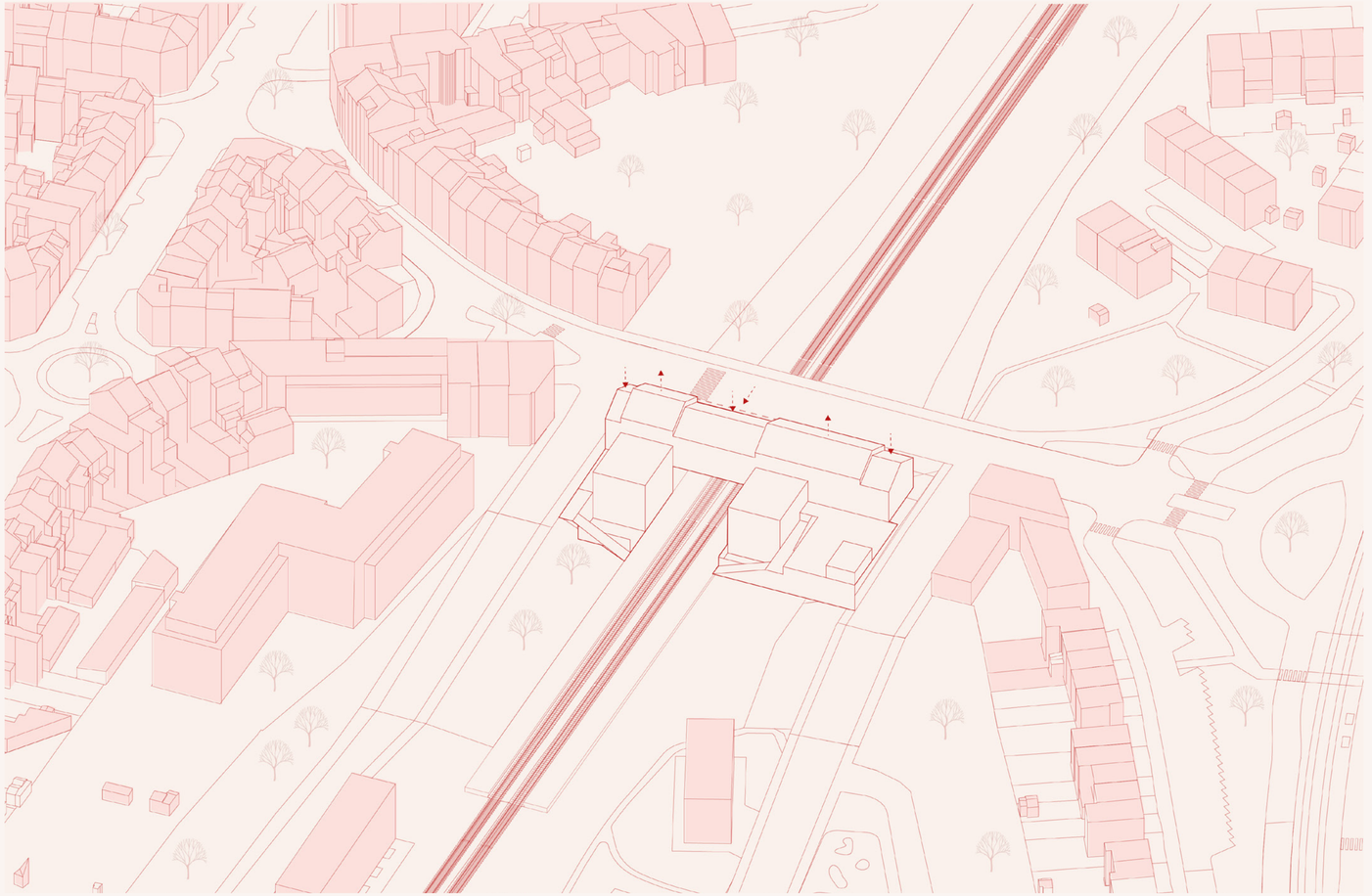
Design concept

Land in Masterplan



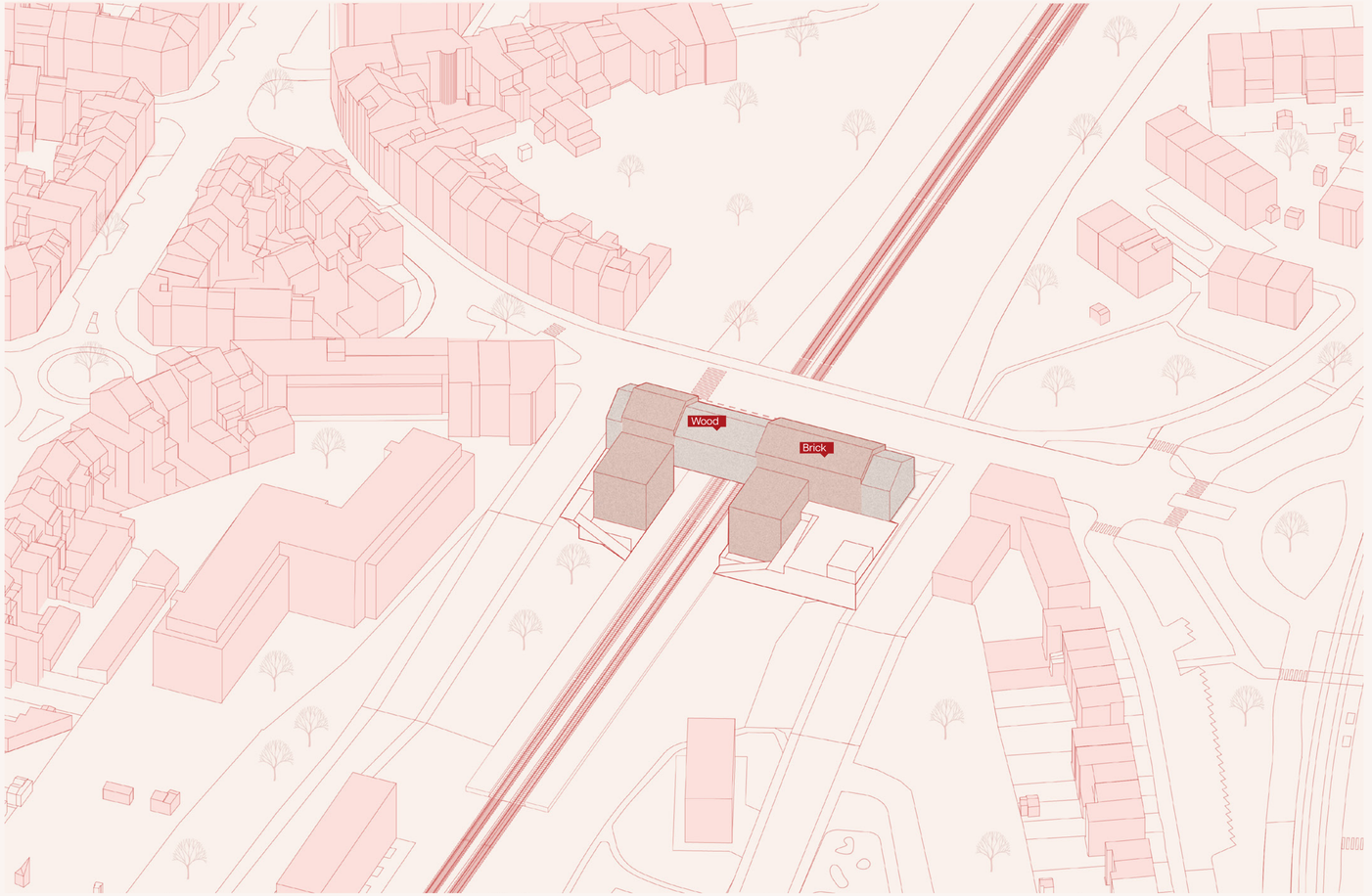
Design concept

Architectural massing



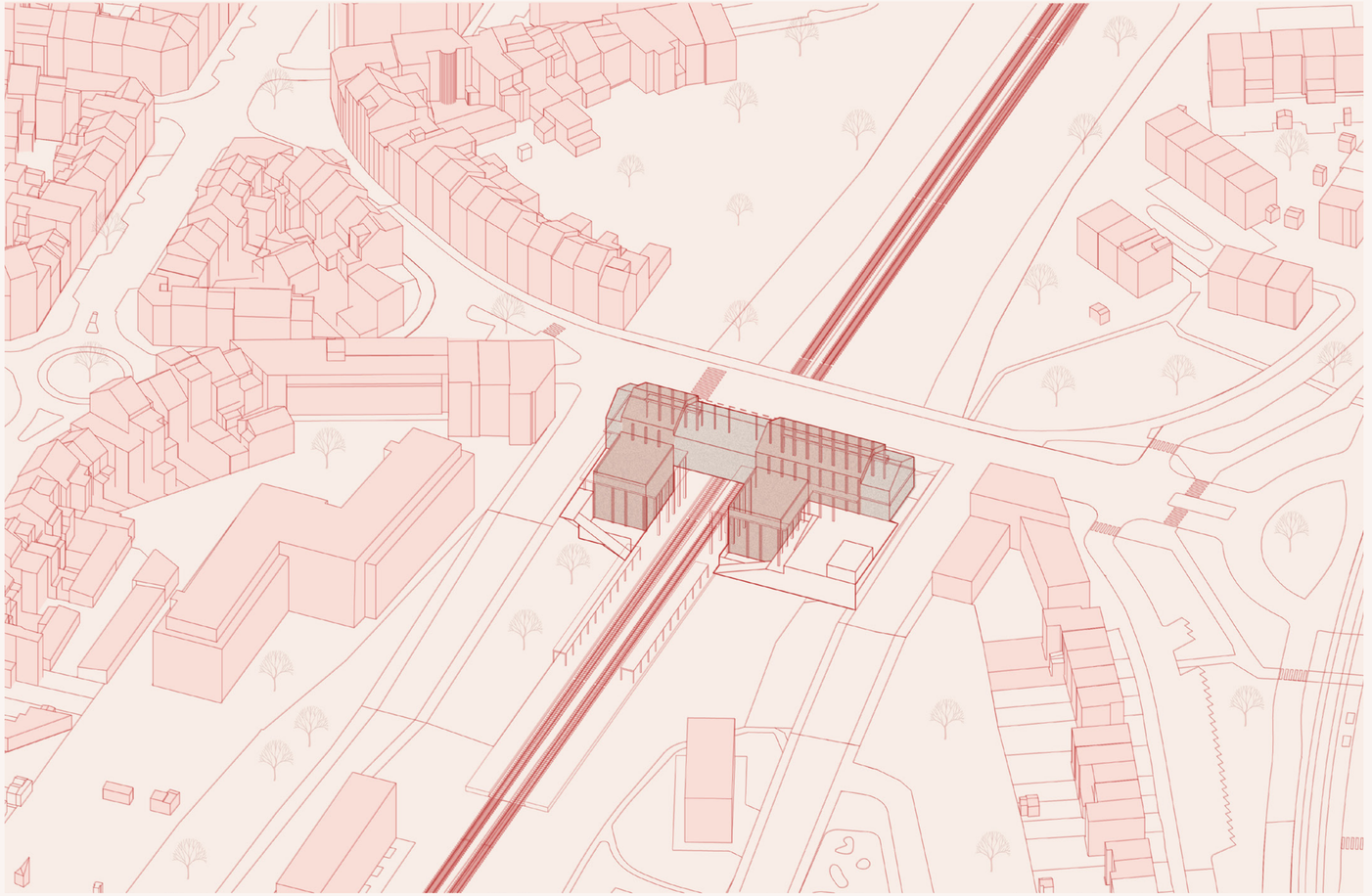
Design concept

Materiality

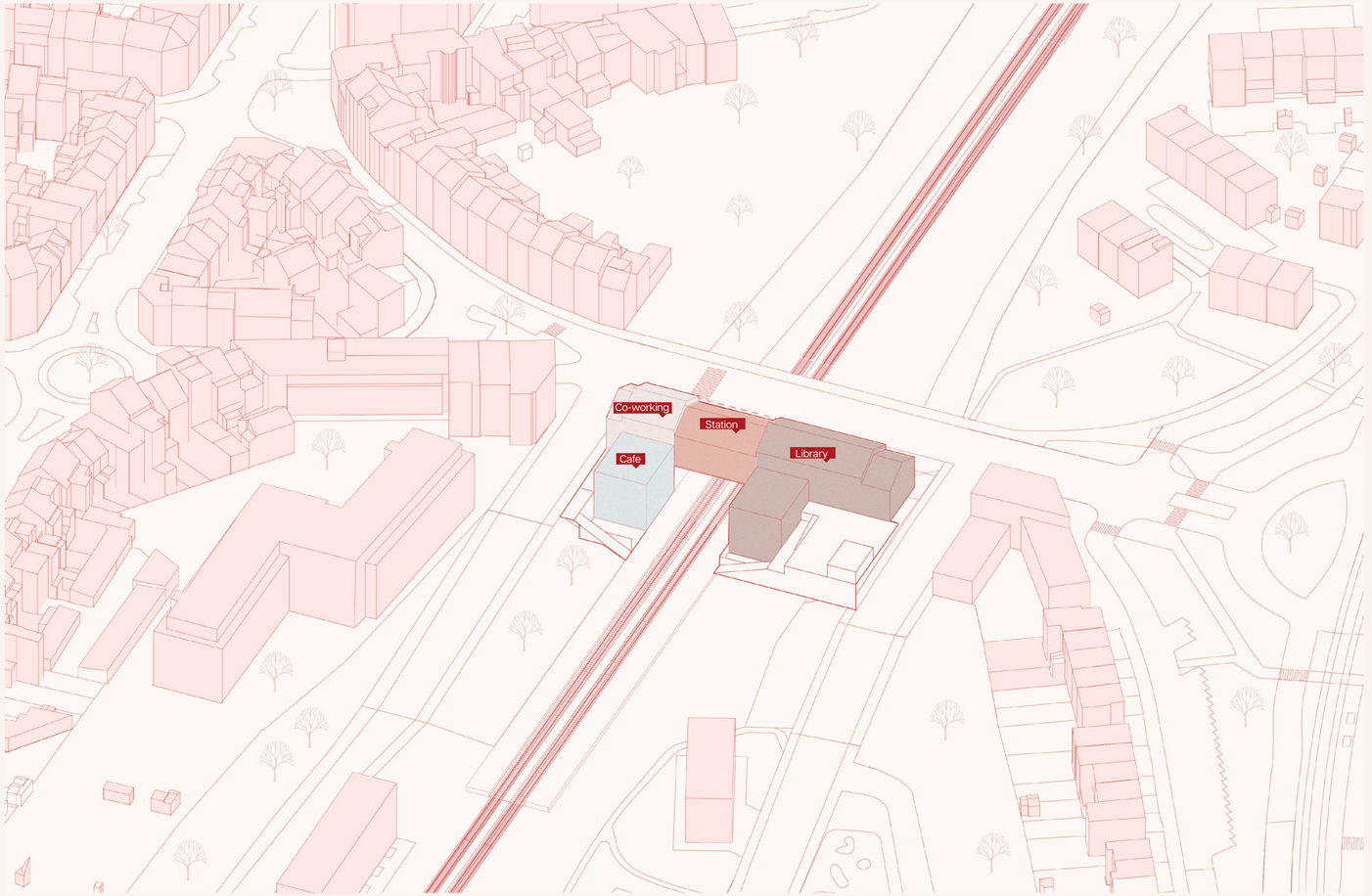


Design concept

Unifying structure

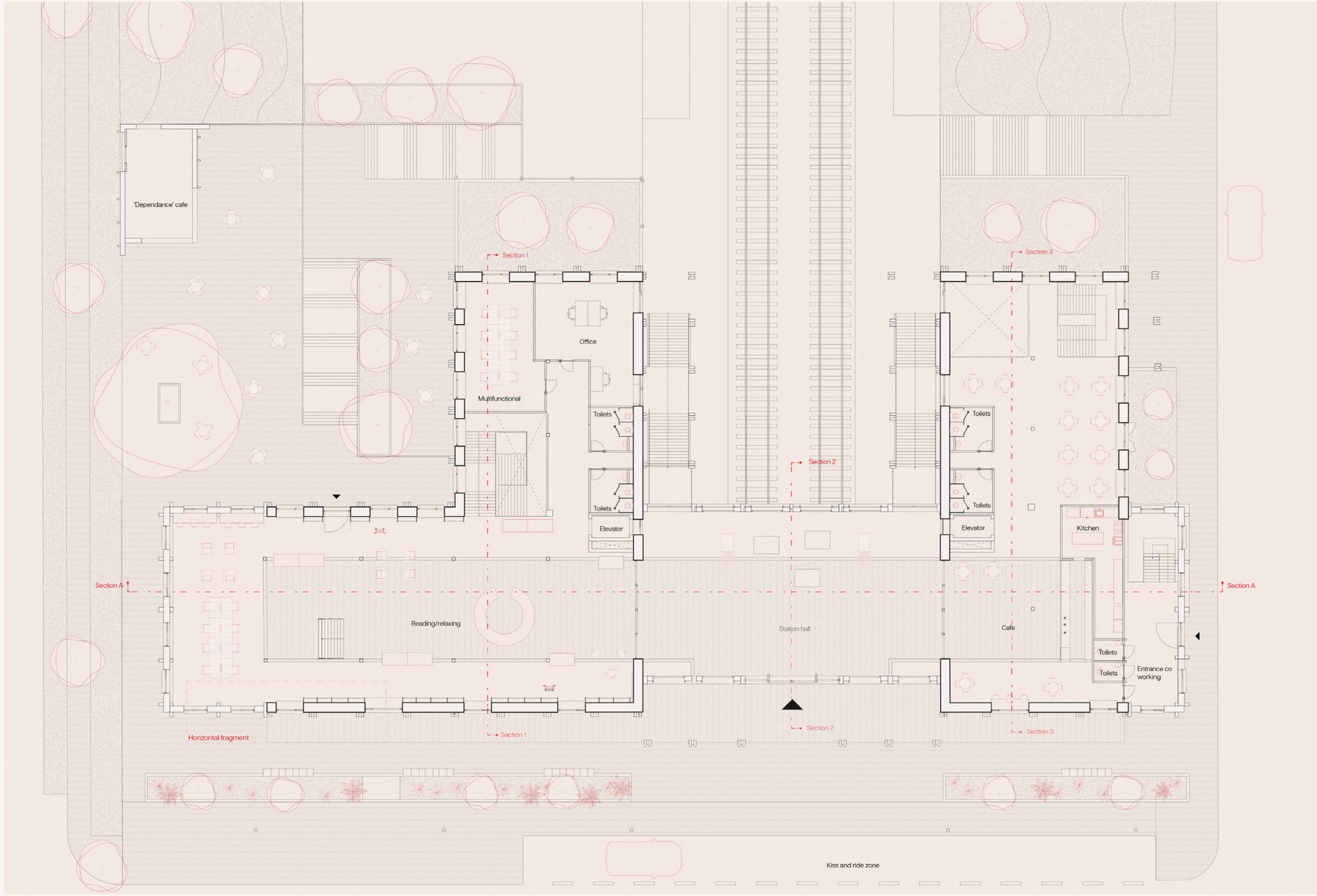


Programme



Impression from parc

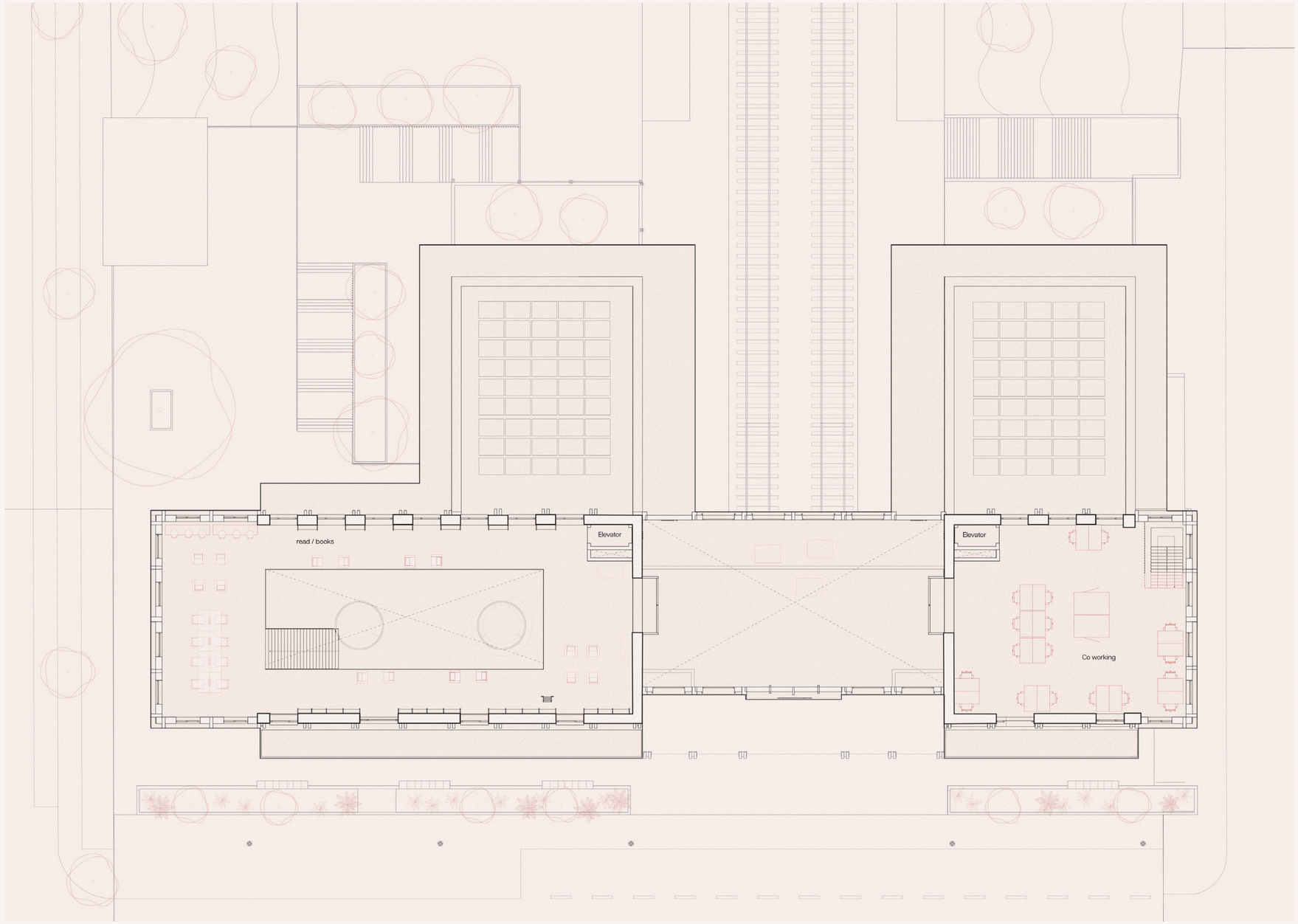
Ground floor plan



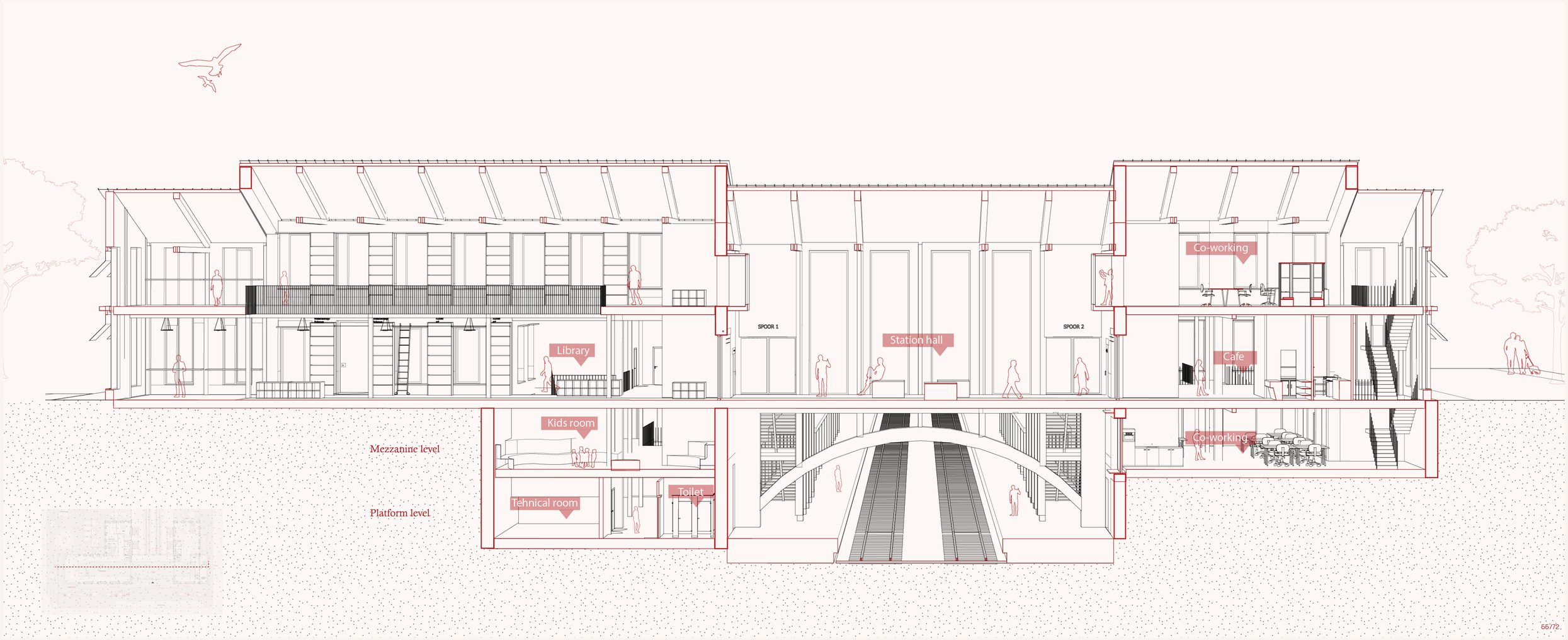
Station hall

Library

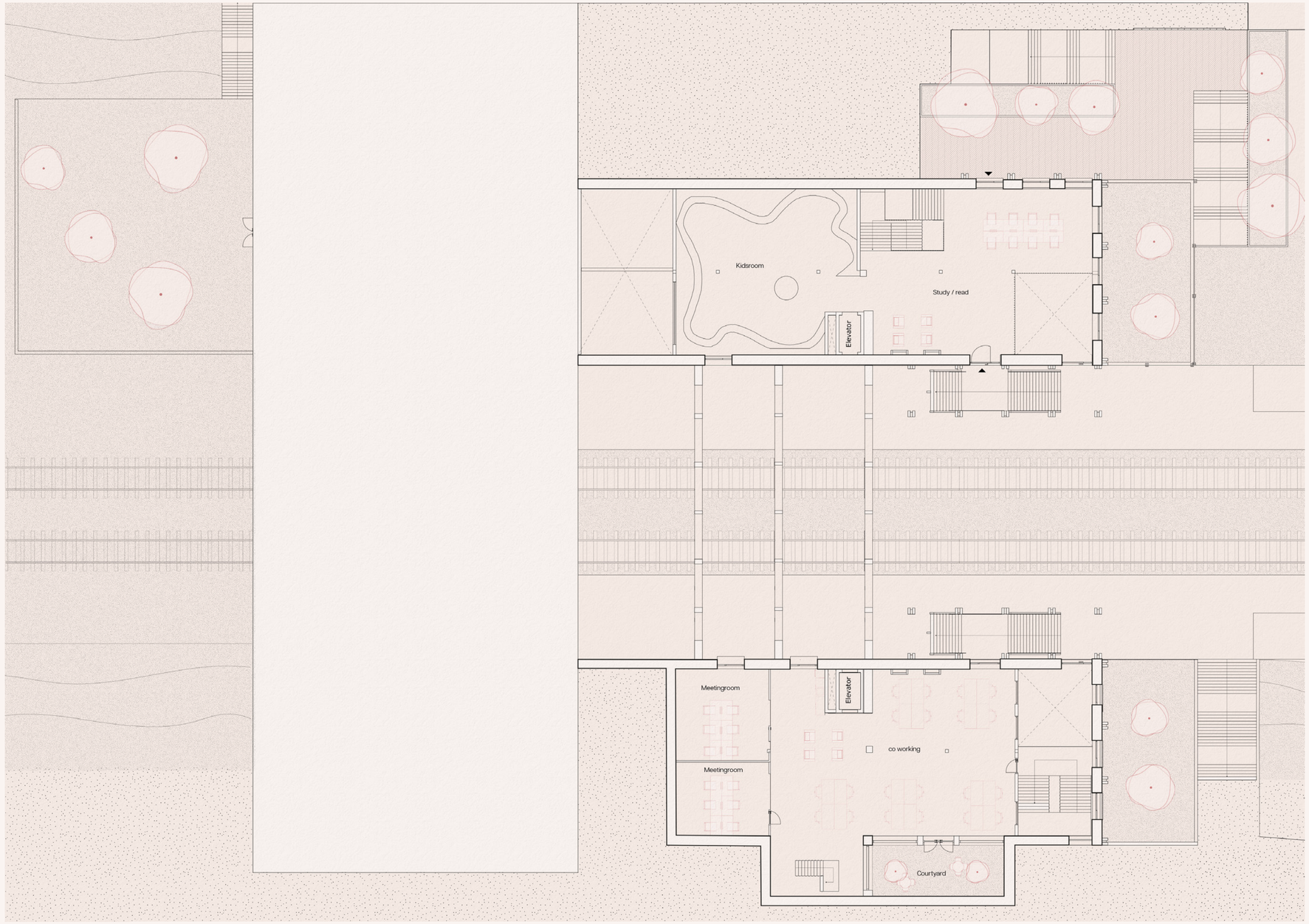
First floor



Cross section

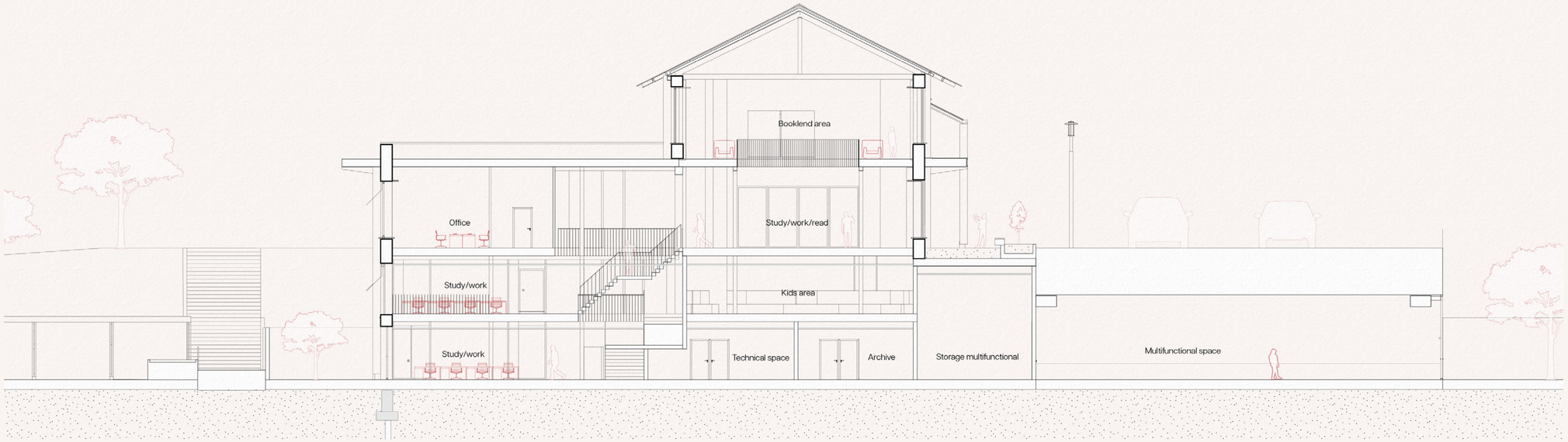


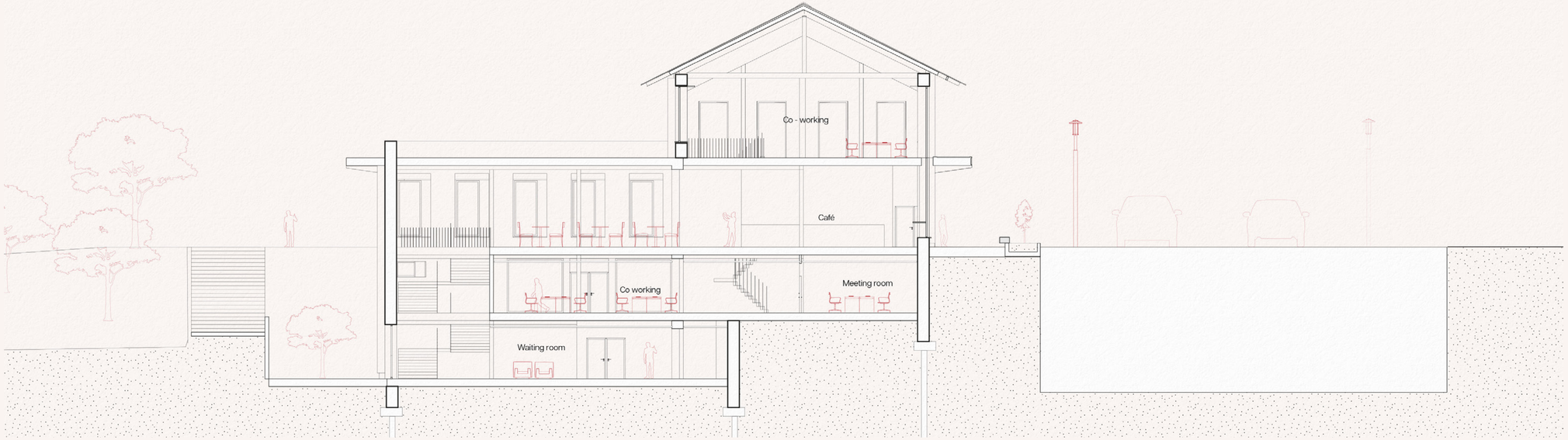
Mezannine level

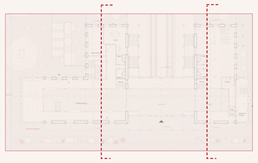


Square

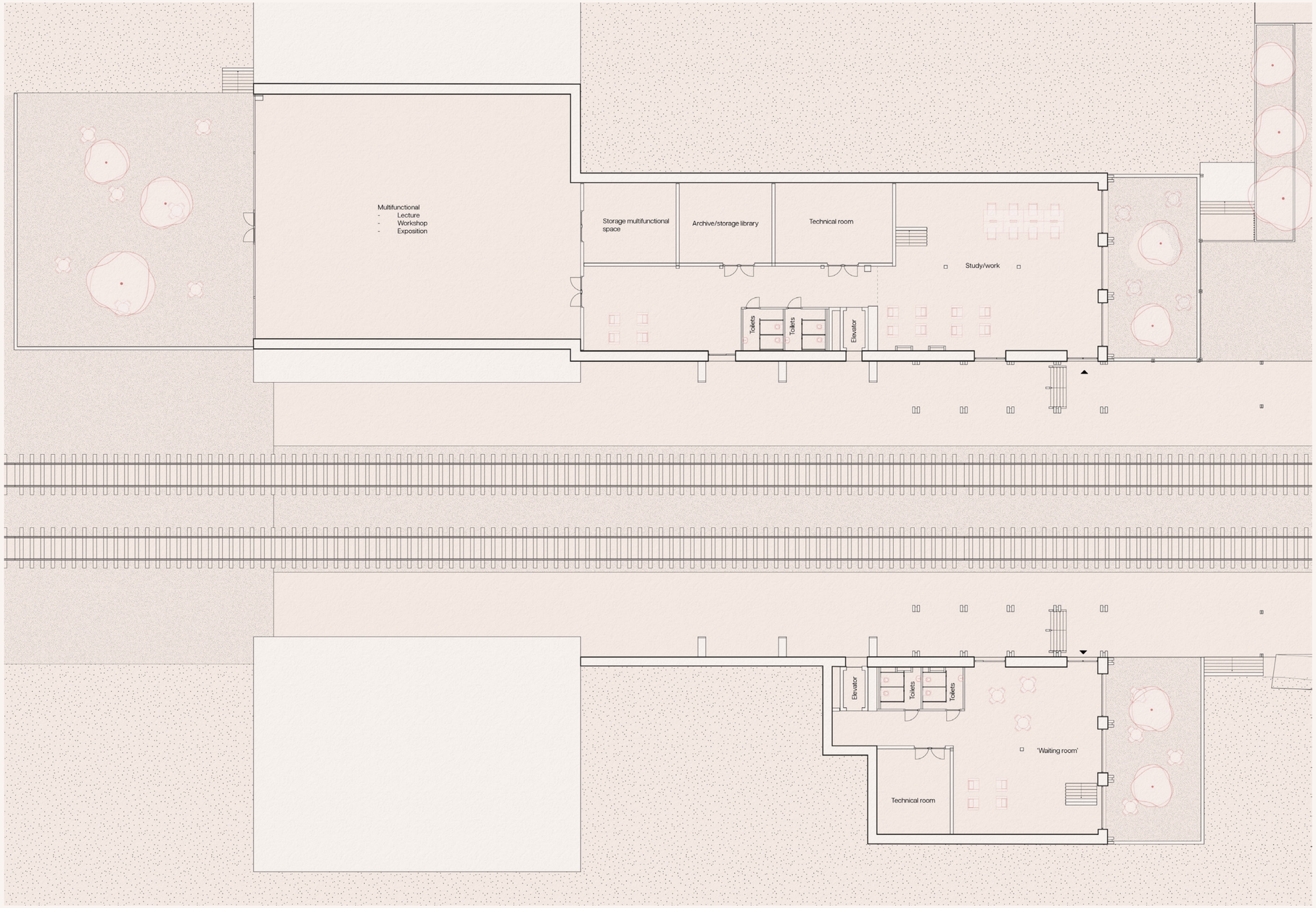
Longitudal sections





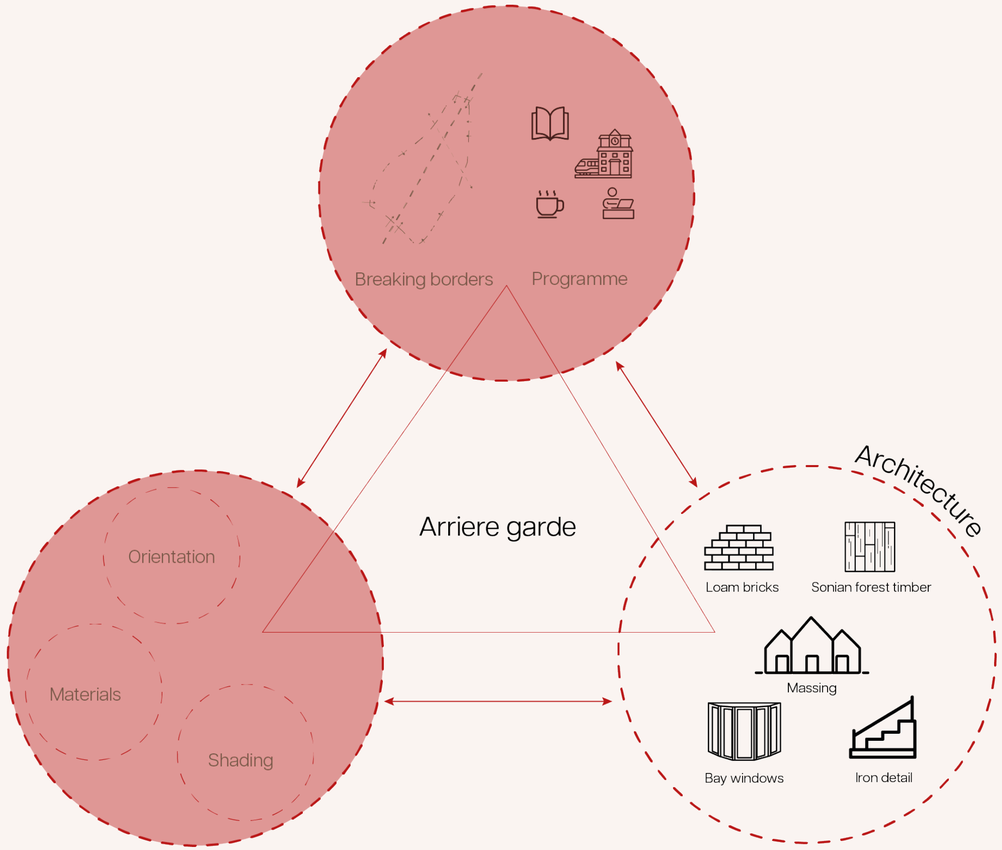


Platform level



Platform impression

Architecture summary



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Introduction and Research

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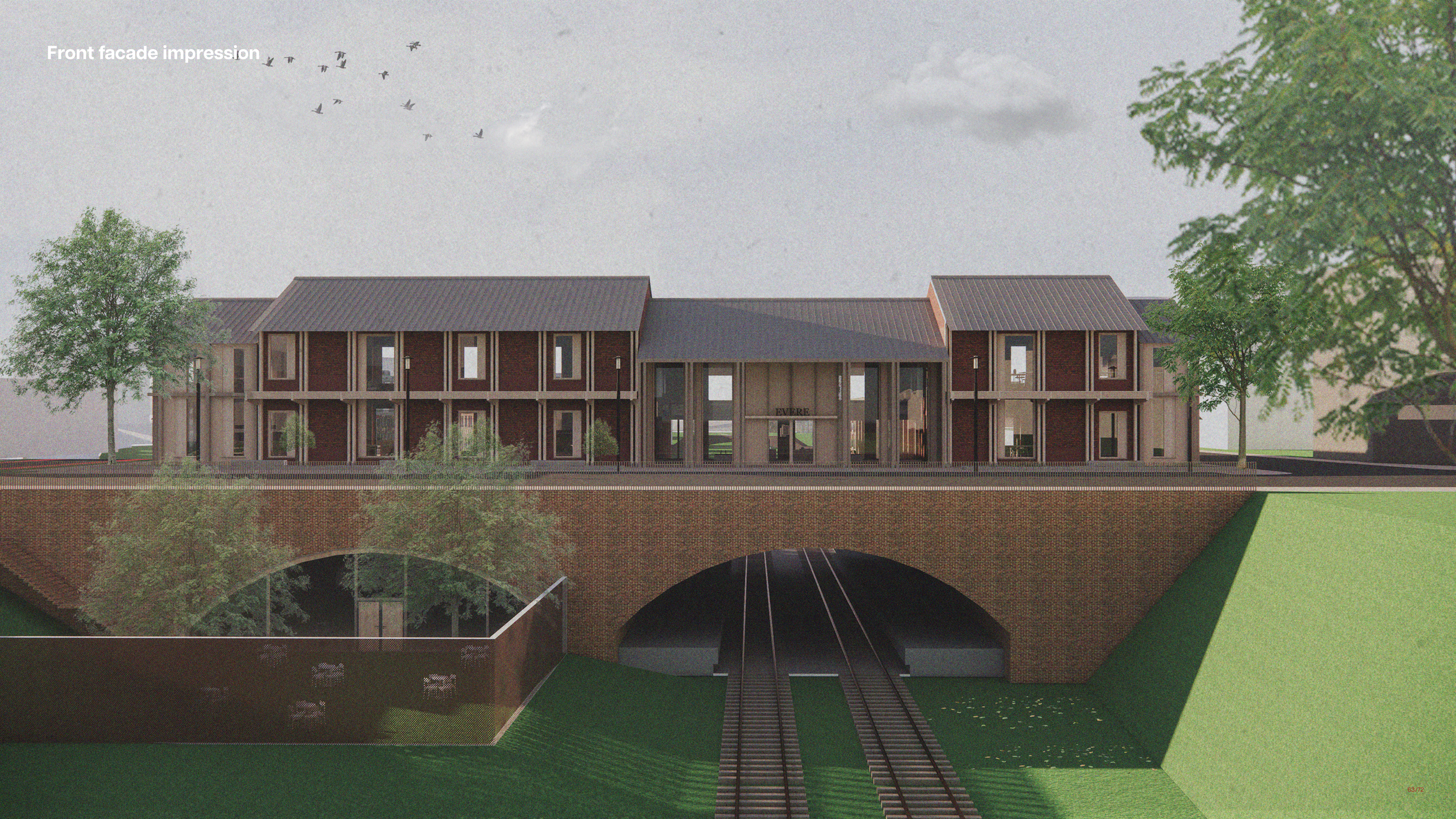
Masterplan

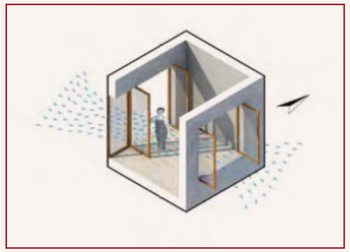
PART III
Architecture

PART IV
Building technology

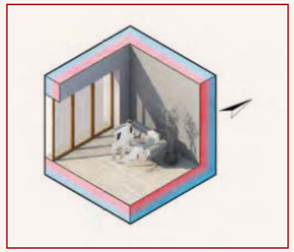
Front facade impression



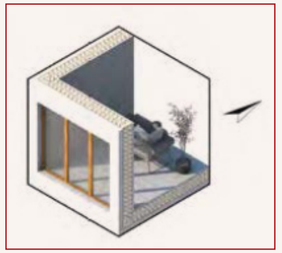
Passive building needs



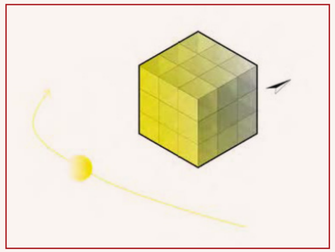
Natural ventilation



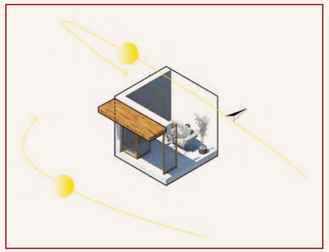
High thermal mass



Airtight



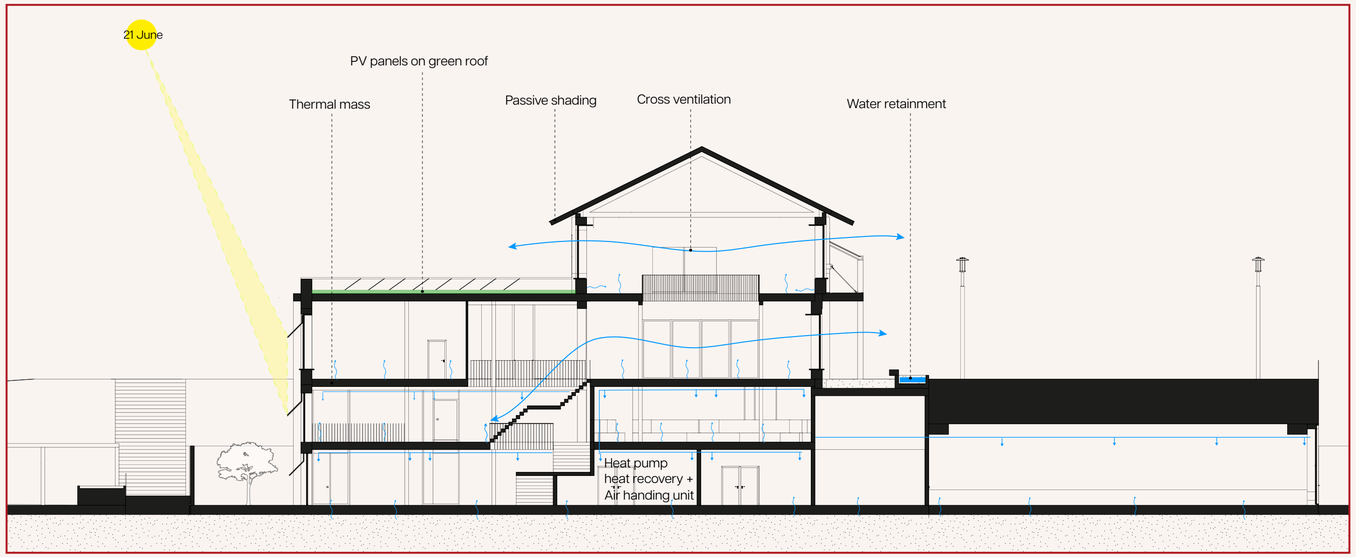
Large windows on South
Smaller windows on North



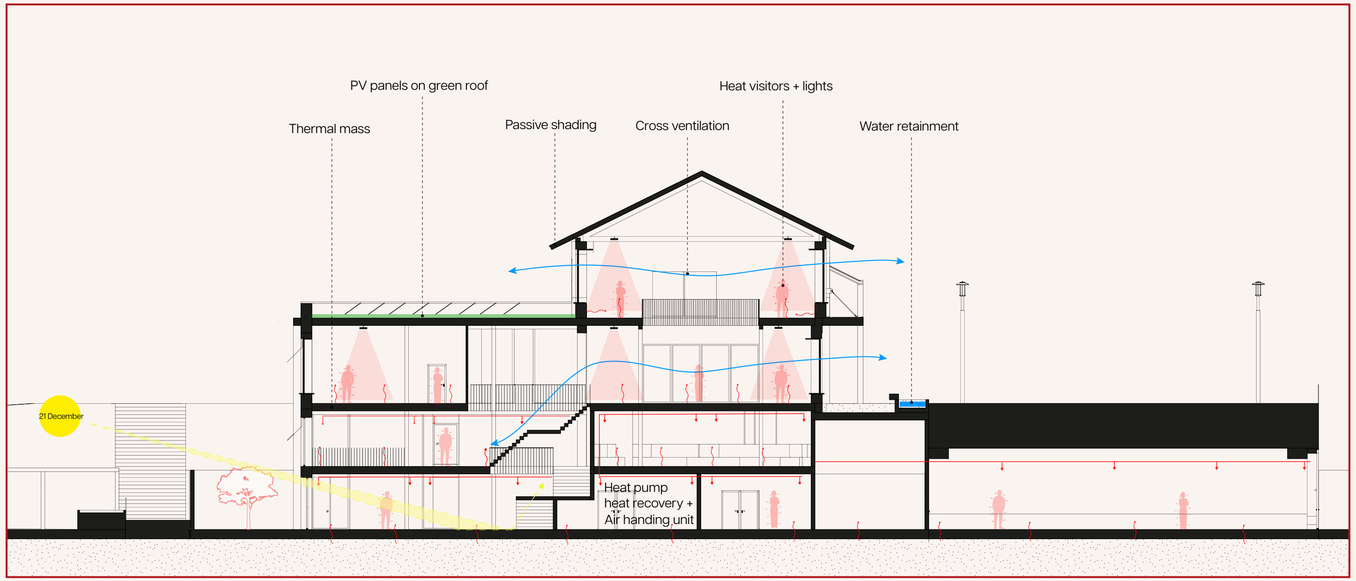
Shading

Sustainability diagram

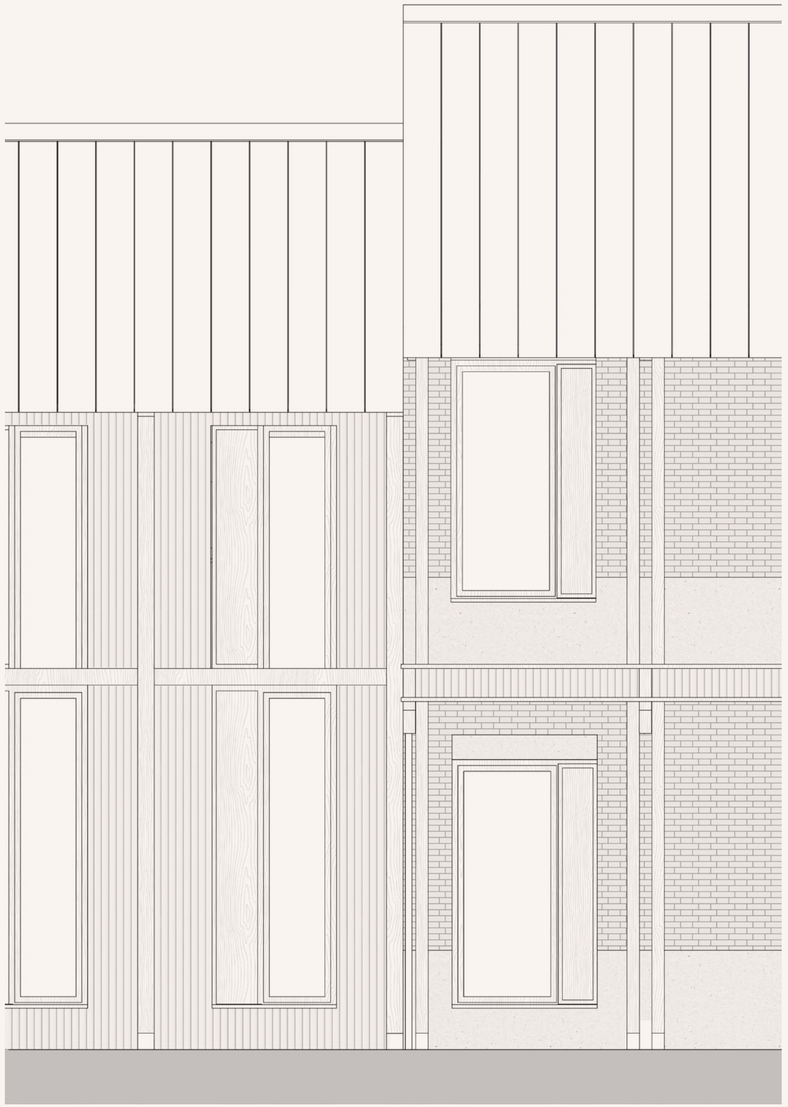
Sustainability diagram winter

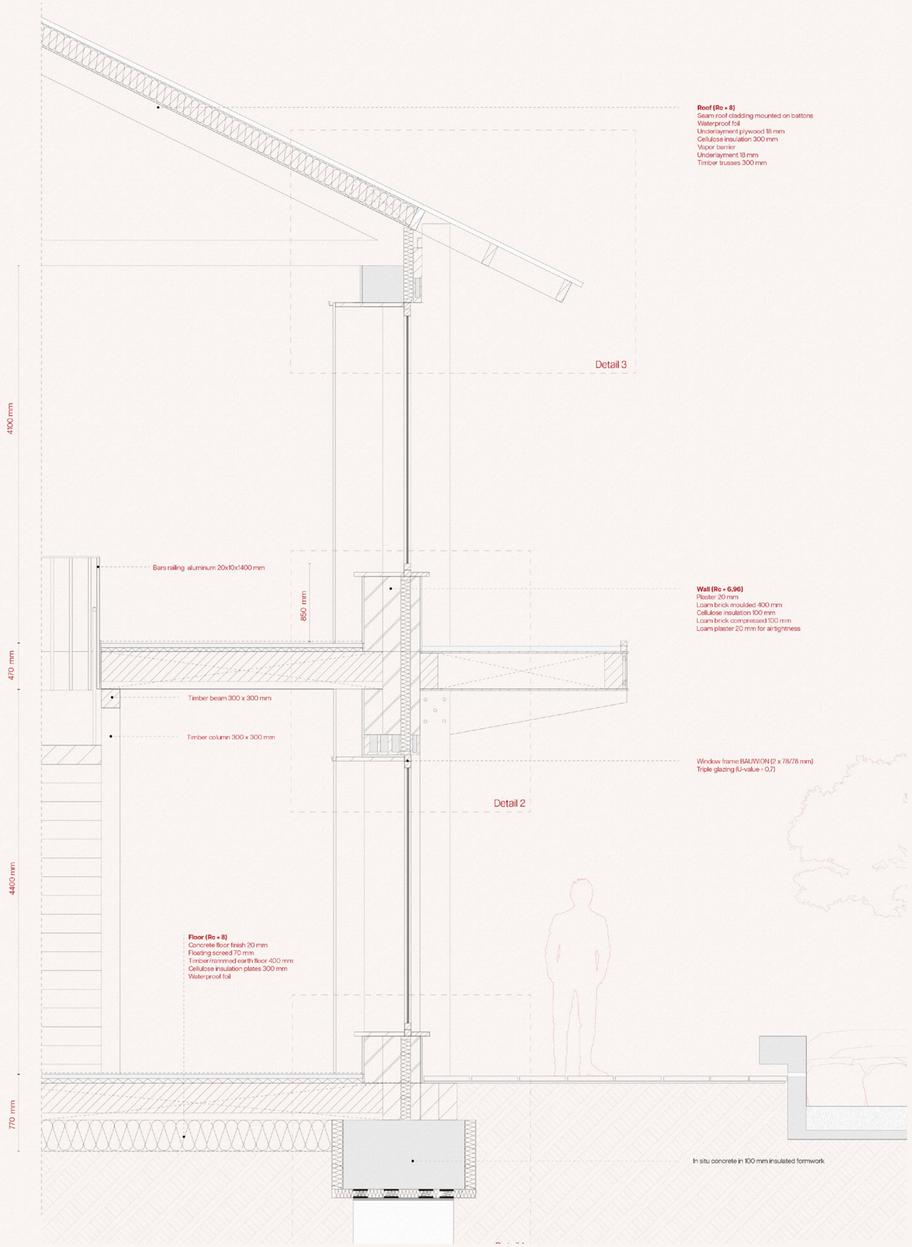


Sustainability diagram summer

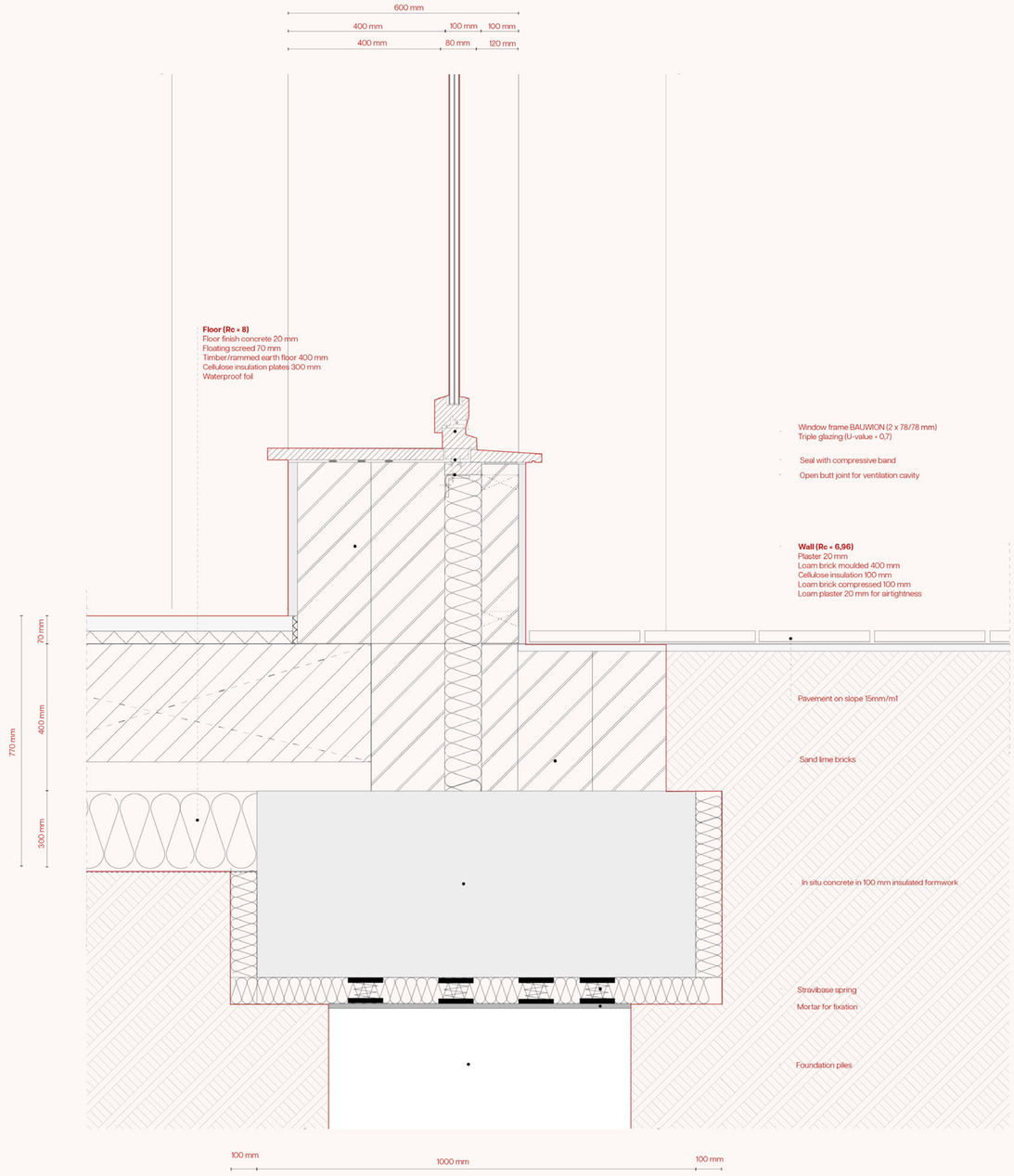


Building technology fragment

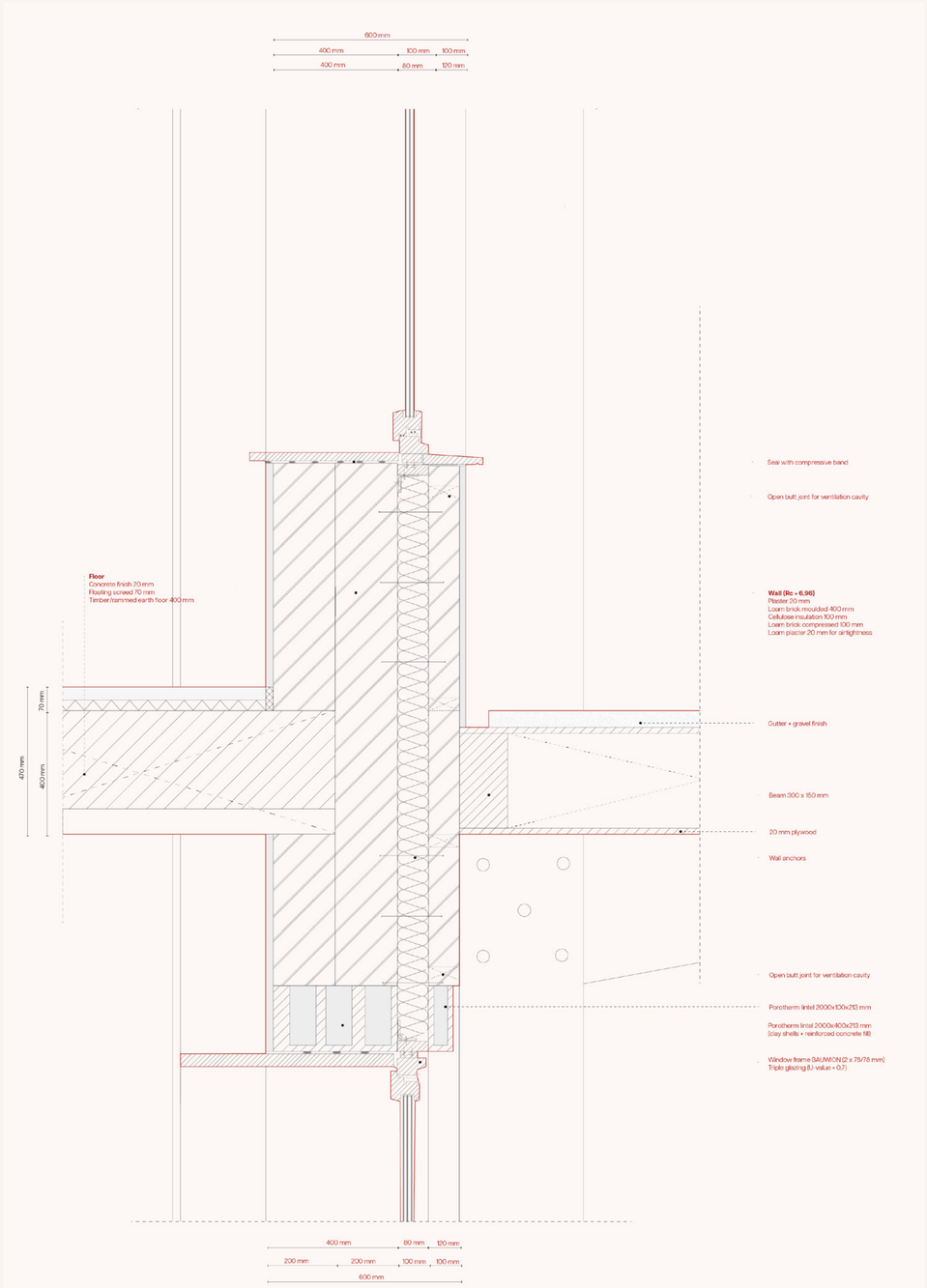




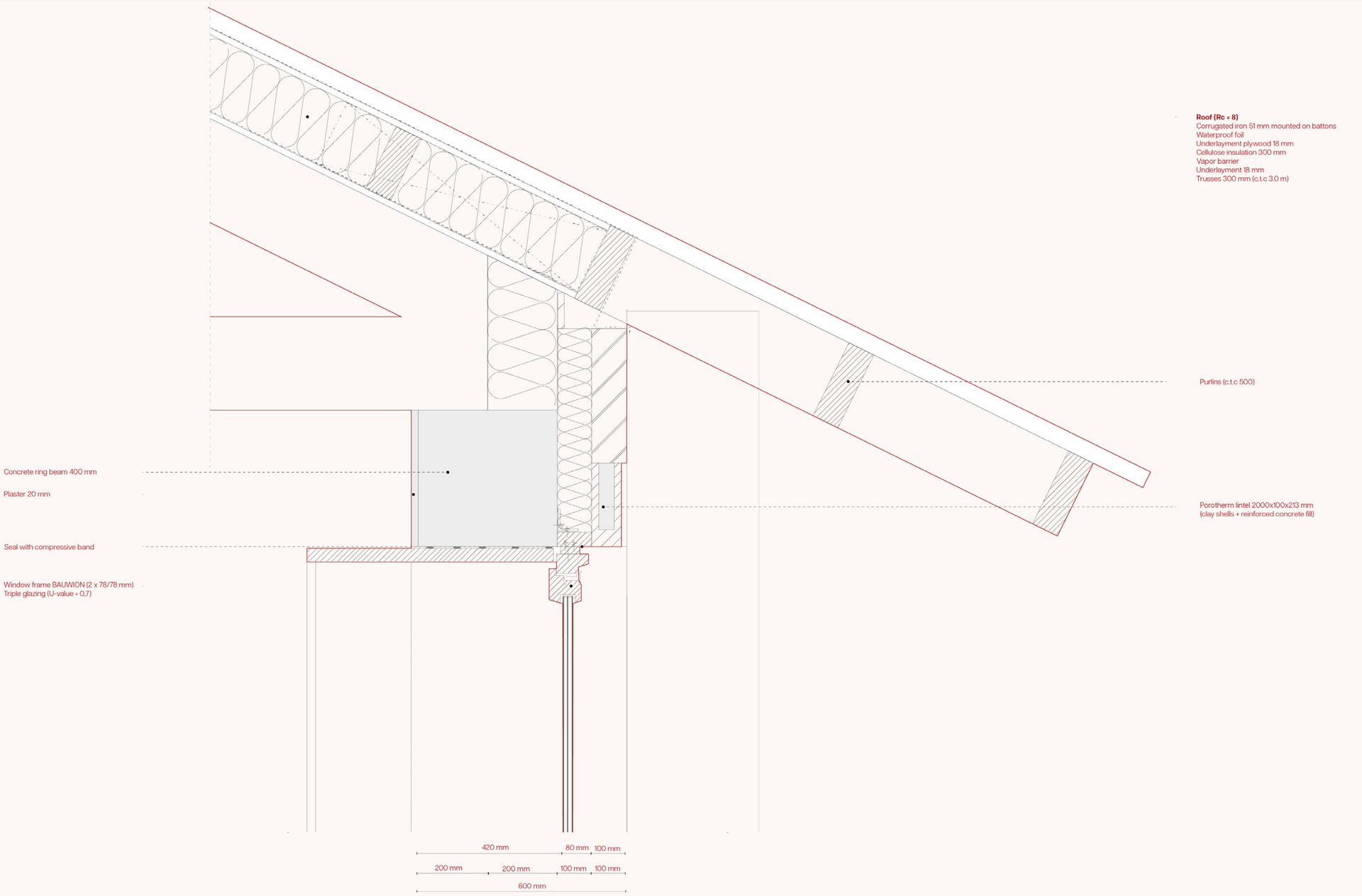
Detail ground floor



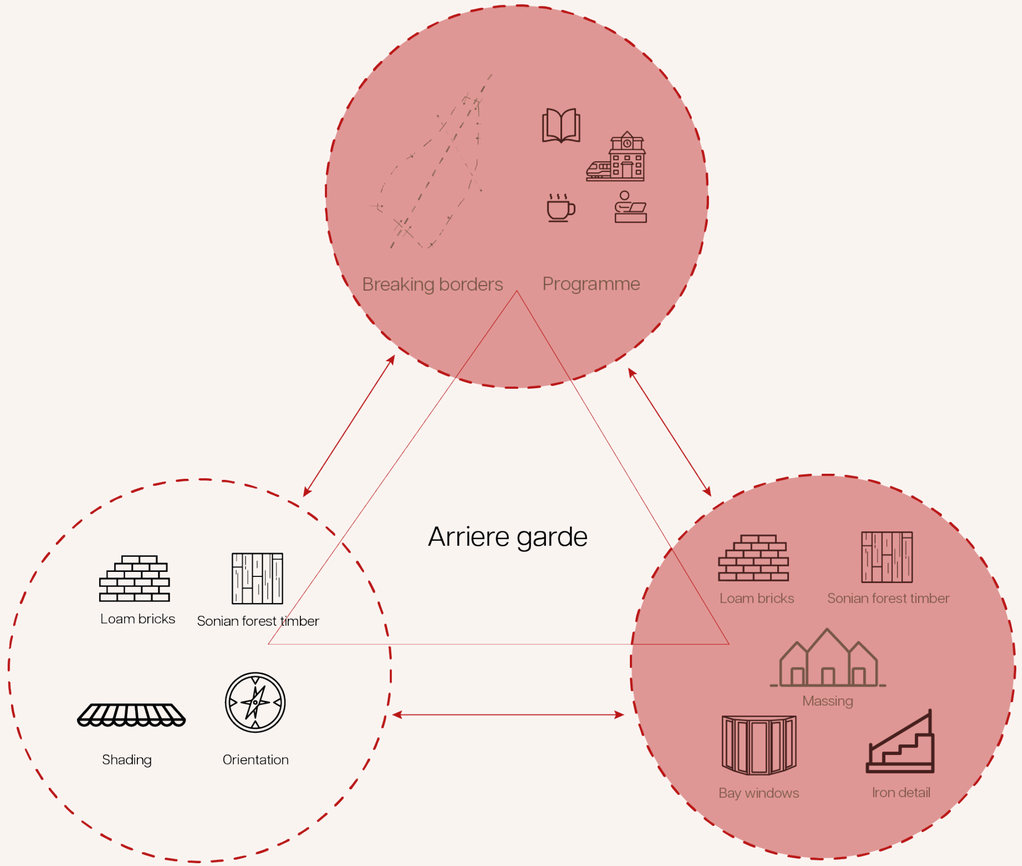
Detail first floor



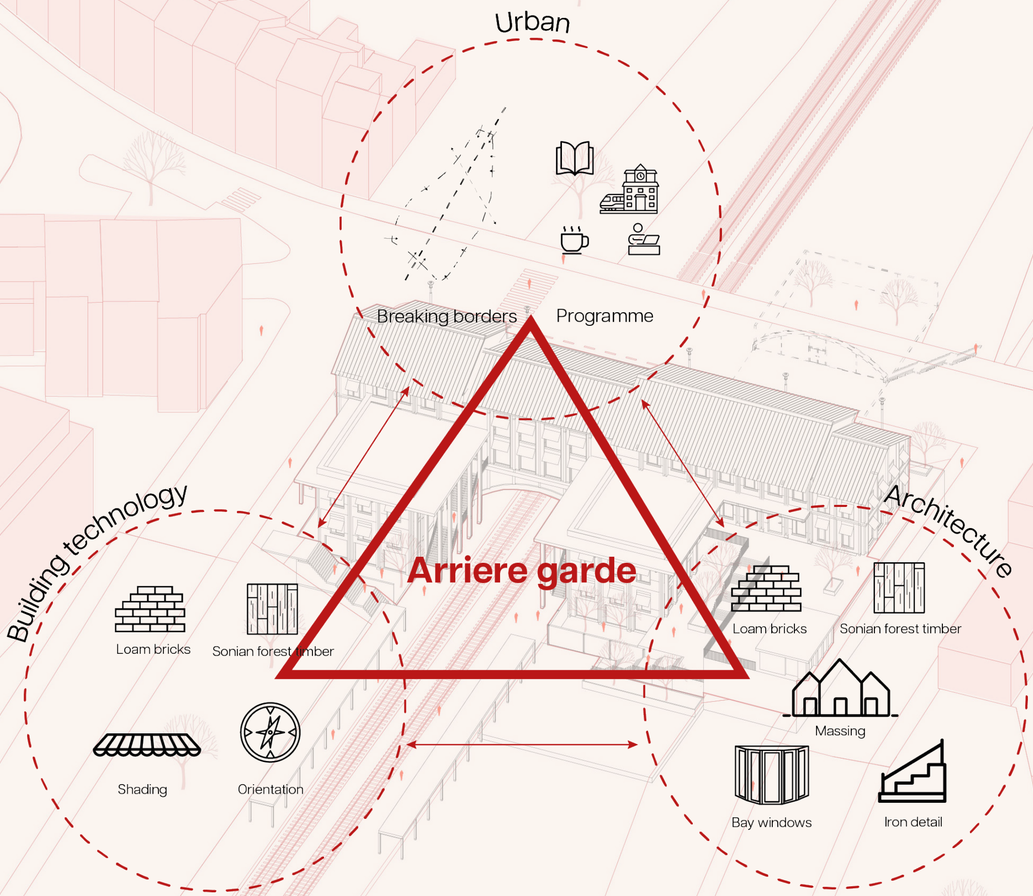
Detail roofconnection



Building technology summary



Project summary



Thank you.