

A Framework For Constellating Bandung

Shared Heritage Lab
Heritage & Architecture
P5

Allend Bamerni
02 June 2019

SHARED HERITAGE LAB

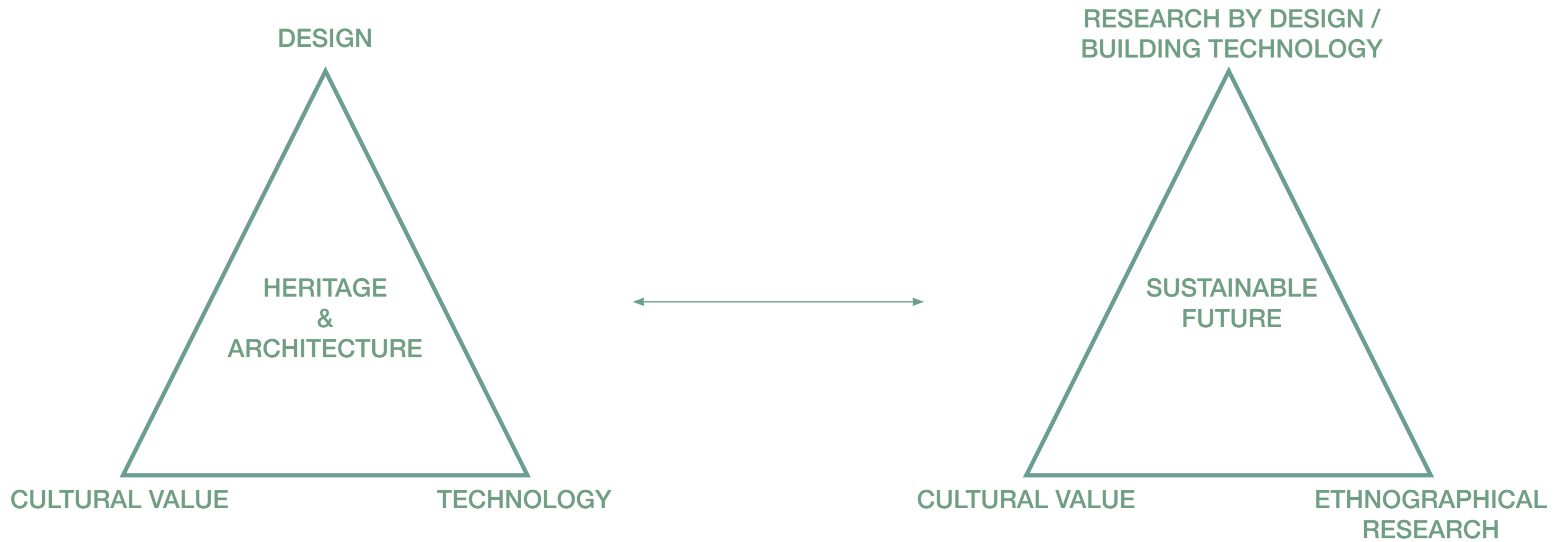
01 // How heritage sites and buildings can **contribute** to the future of former colonial cities

02 // How to give **new meaning** and use to this environment, taking history, present and future into account

03 // Shared Heritage takes on crucial built heritage issues as investigations and attempts to discover how it can be a driver for **sustainable** development



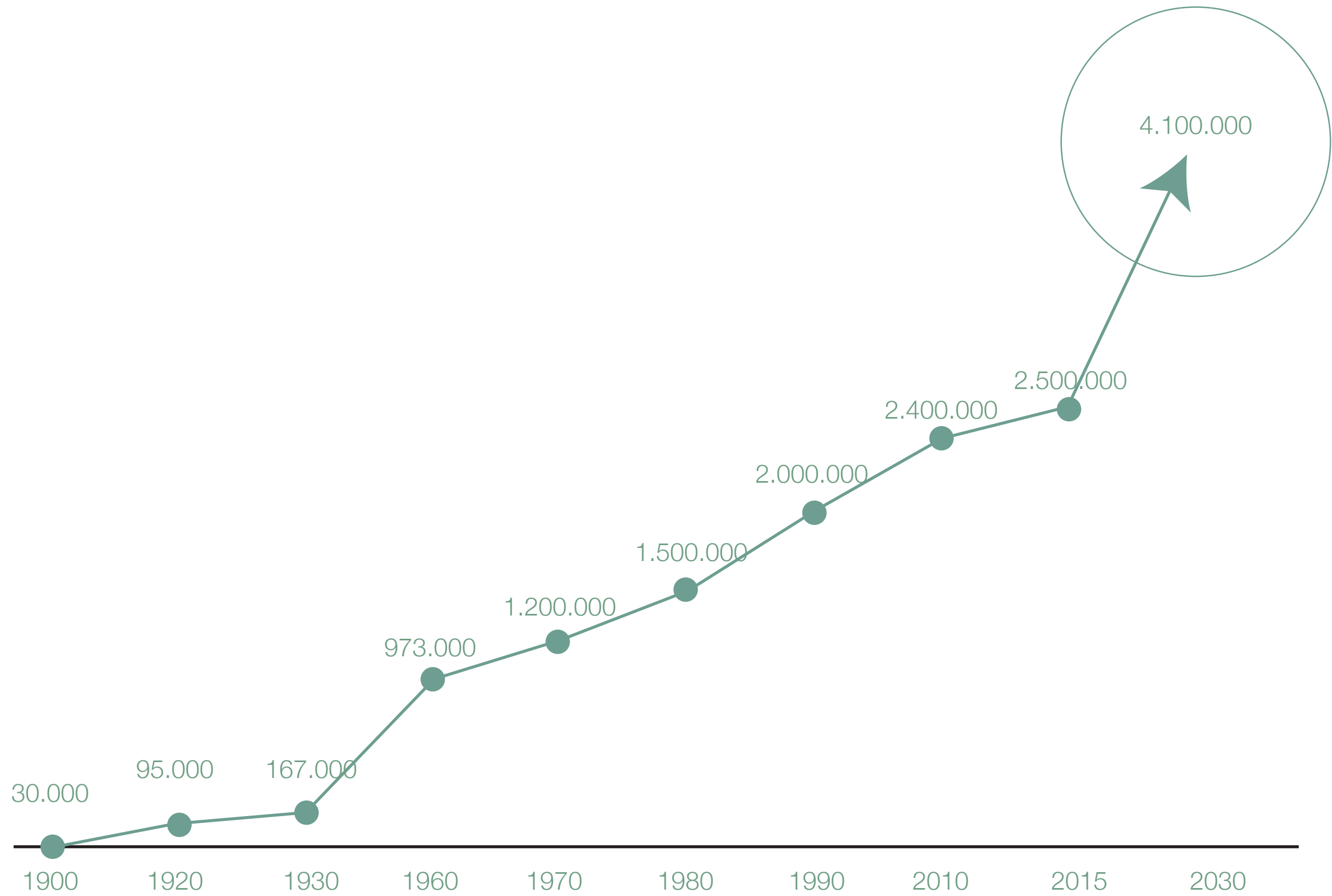
VIEWS ON HERITAGE



GOAL OF THE STUDIO

How to **evolve** the **railroad** of Bandung,
in order to realise **inclusive, thriving and healthy**
environments for working, living and leisure

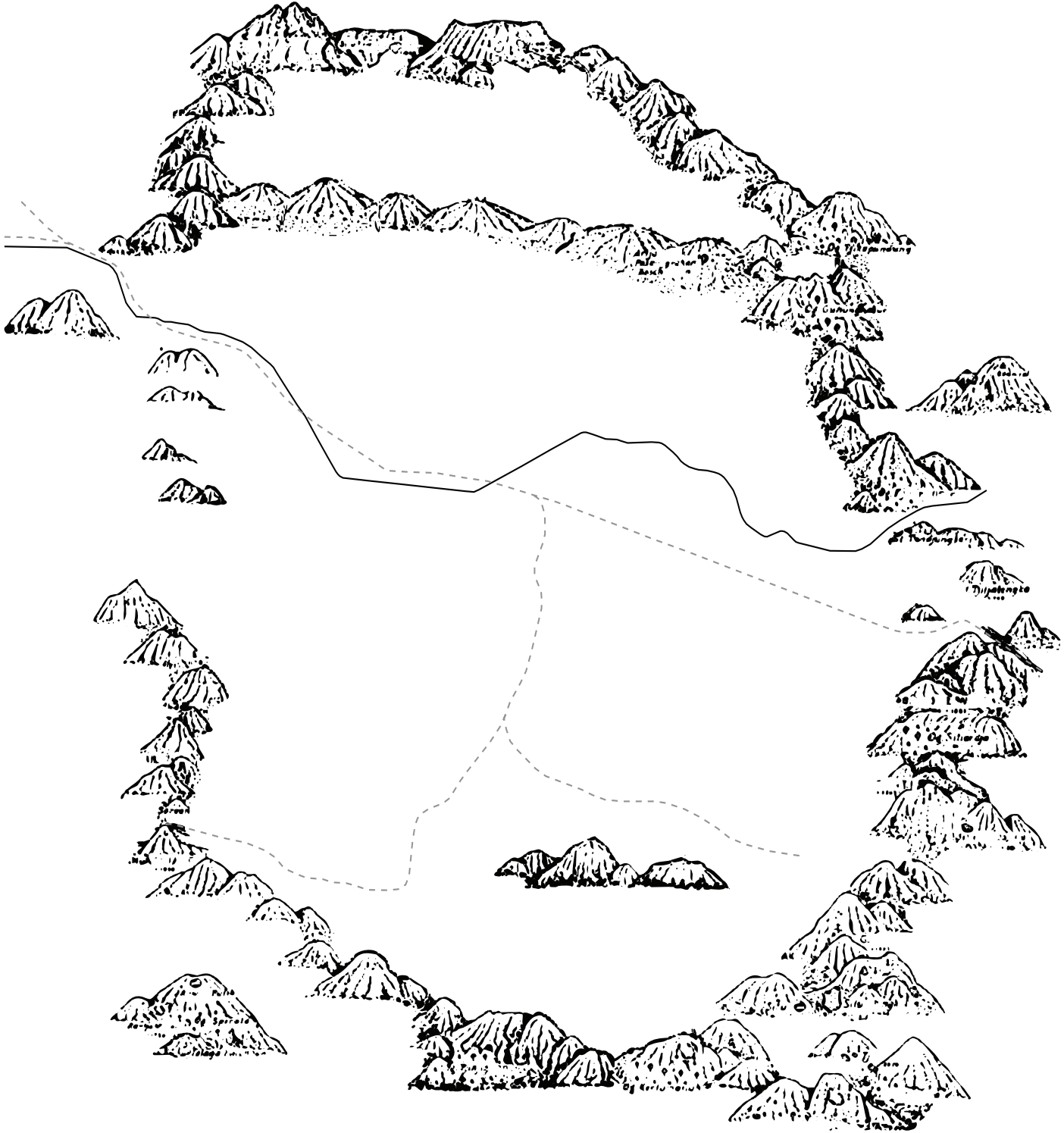


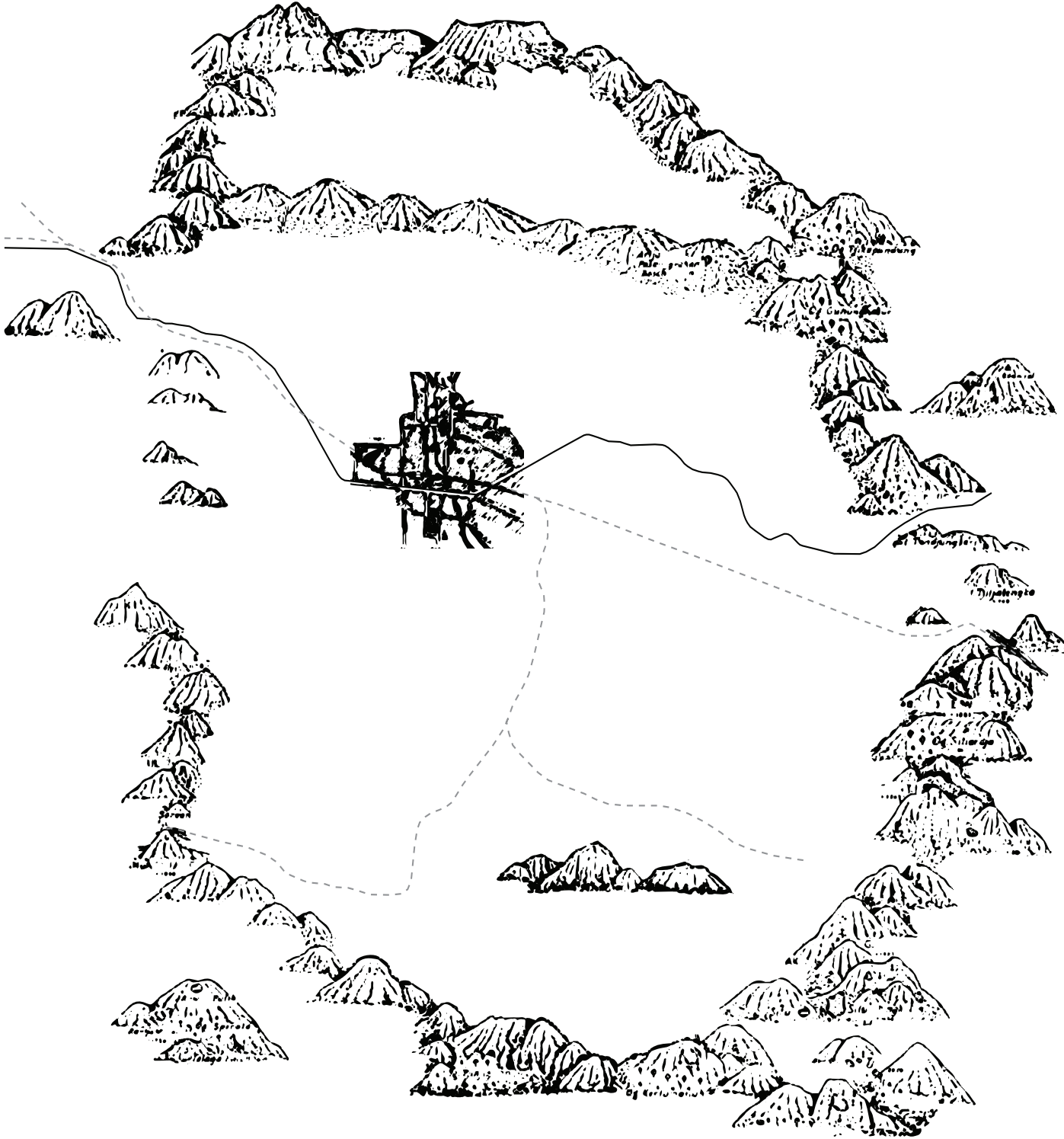


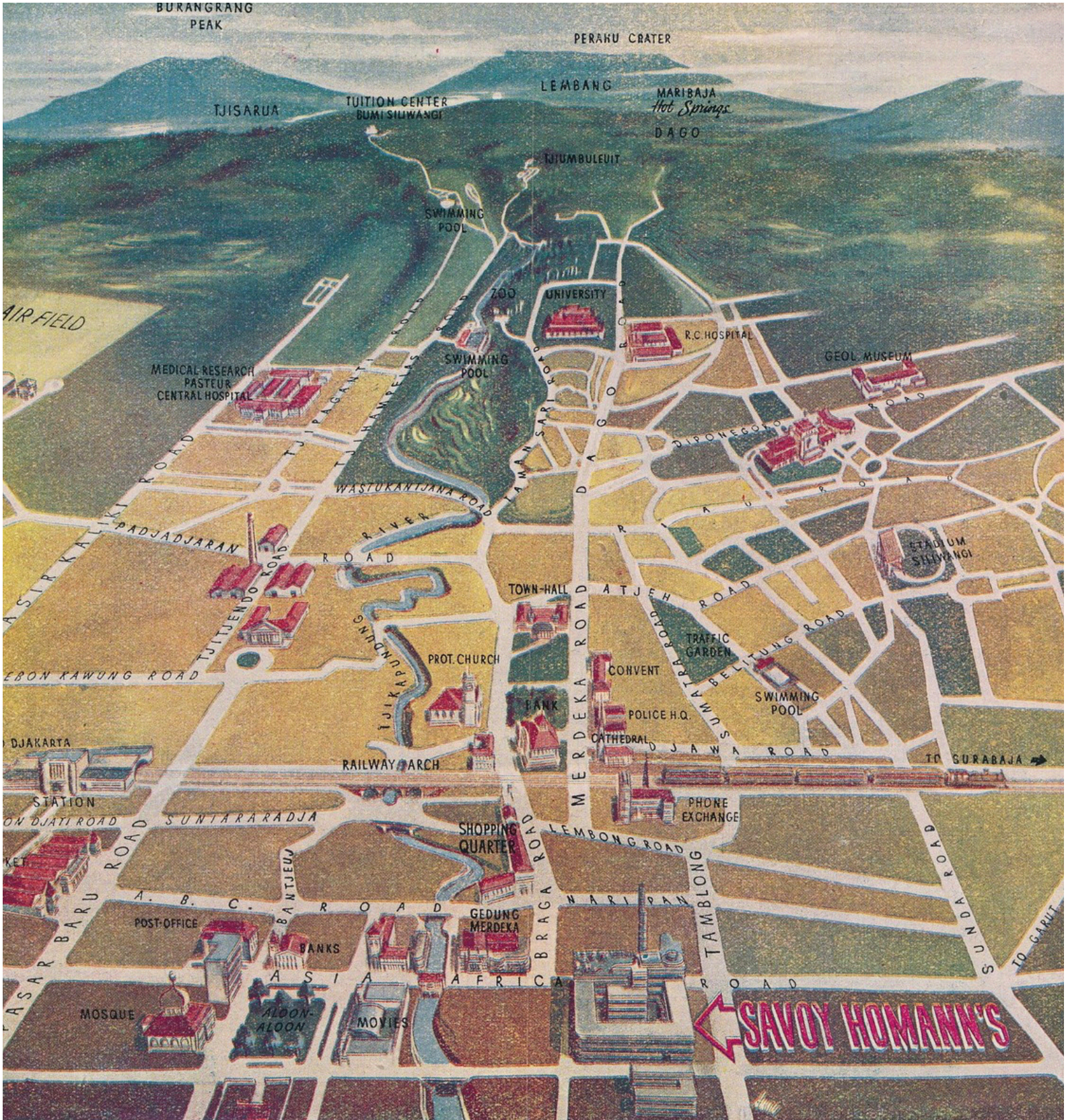
Growth of Urban Population in Bandung City

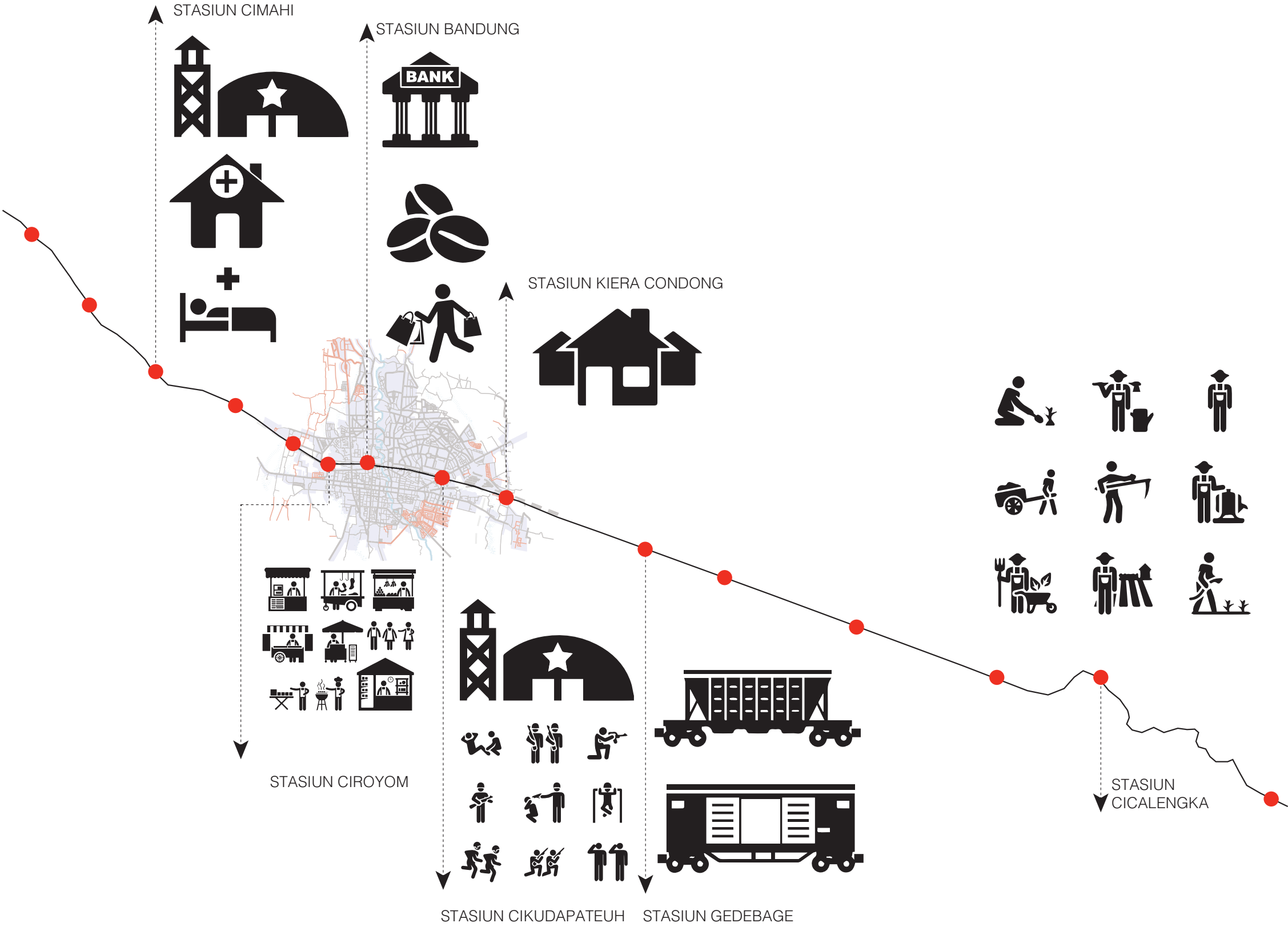












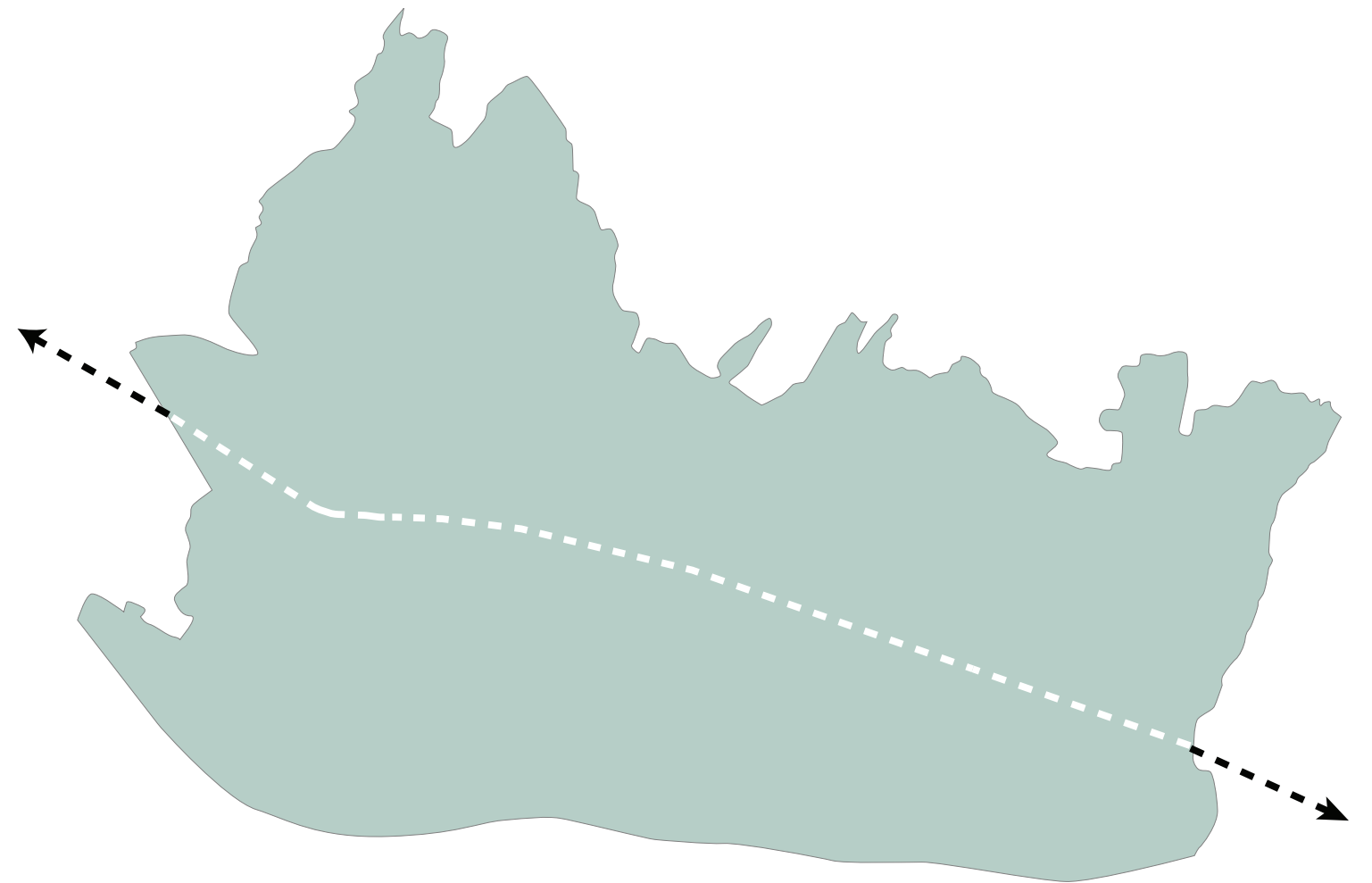


Bandung, Indonesia



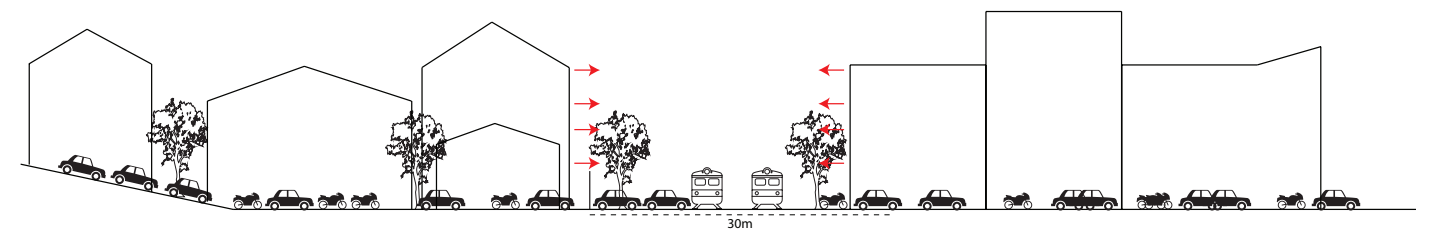
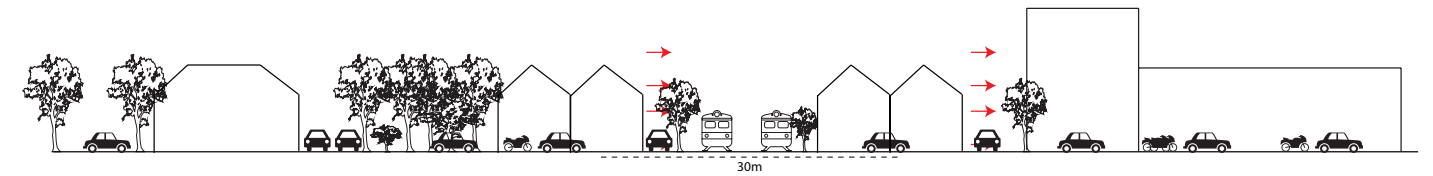
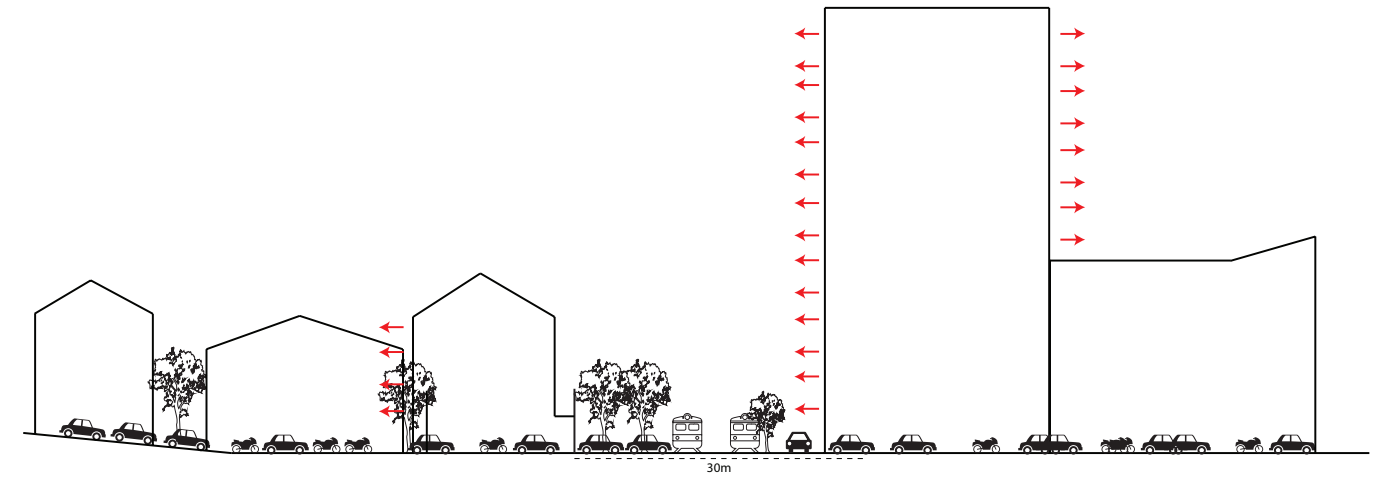
Context of The Railway

- 1.** The railway that once was the core of servicing system that was feeding the areas around it, either in terms of the military or industrial sector is now a **physical boundary** between the north and south regions of the city
- 2.** The Railway line contributes to a significant extent to the **traffic problems**
- 3.** Social **inequality and segregation** between the formal and informal areas of the city



The Problem

The railway is today acting as a no-go zone throughout the whole middle section of the city.



Segregation

Problem Statement:

“The current **correlation** of Bandung’s urban structure from north to south through the railway track is not done in an **integrated** and approachable way”

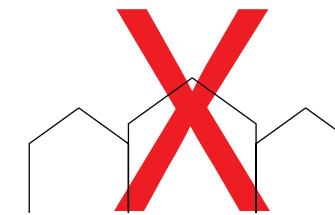
What if?



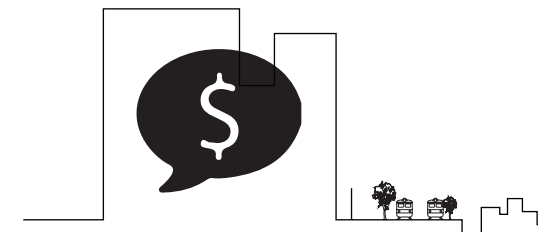
No social integration



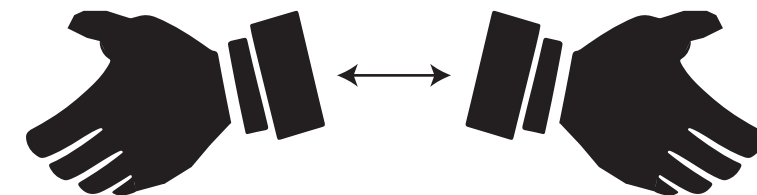
Private entrepreneur



Demolishing of our shared heritage



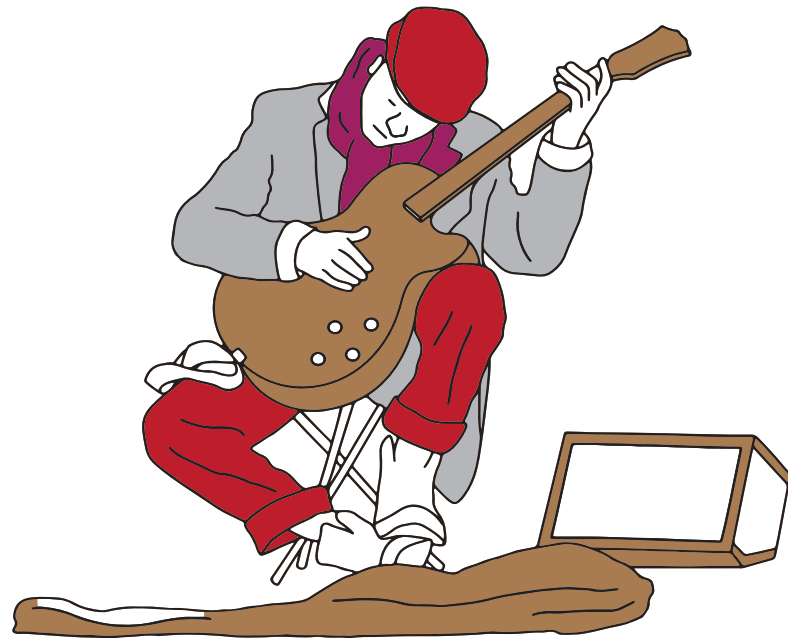
Closed high rise / shopping mall



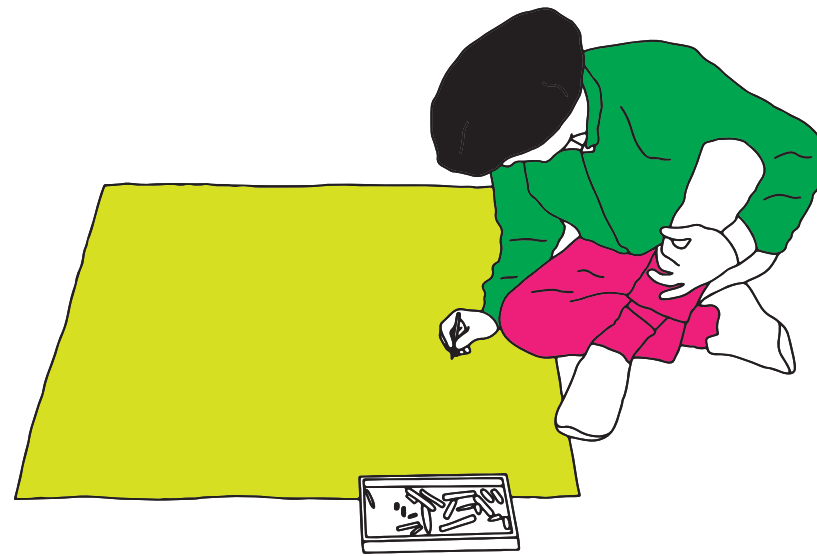
Further segregation



The dancer / performer



The musician



The Artist / Handcraft



The street sport

Qualities



Parks



Green streets



Sports Facilities



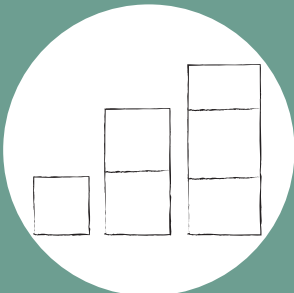
Human Scale



Arts



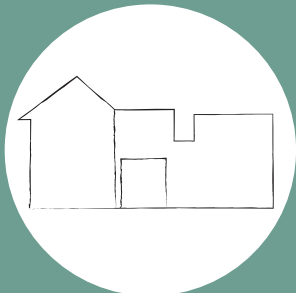
Urban Fabric



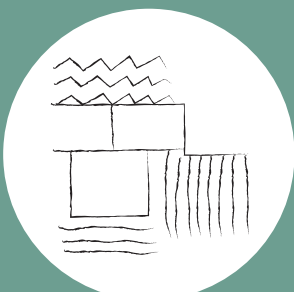
Flexibility



Community



Mix use



Mix of Materiality



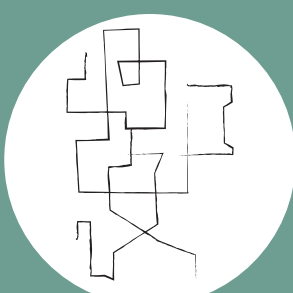
StreetScape



Plants & Fresh Air



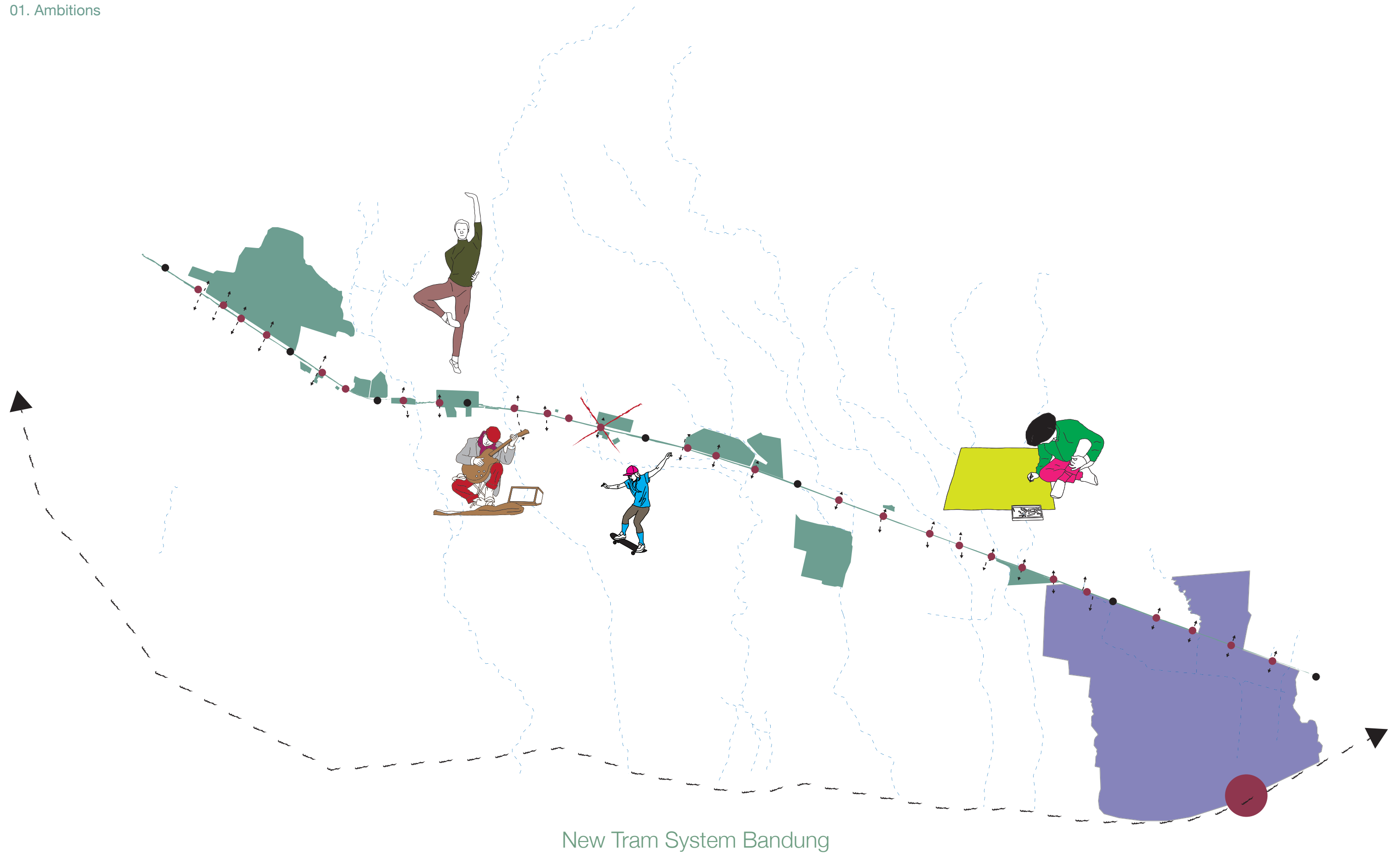
Meeting points

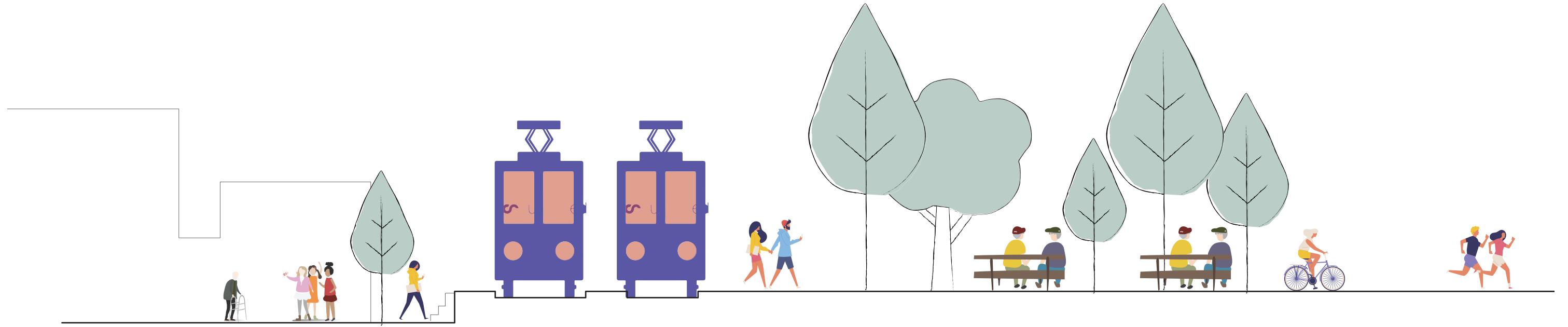


Street formation

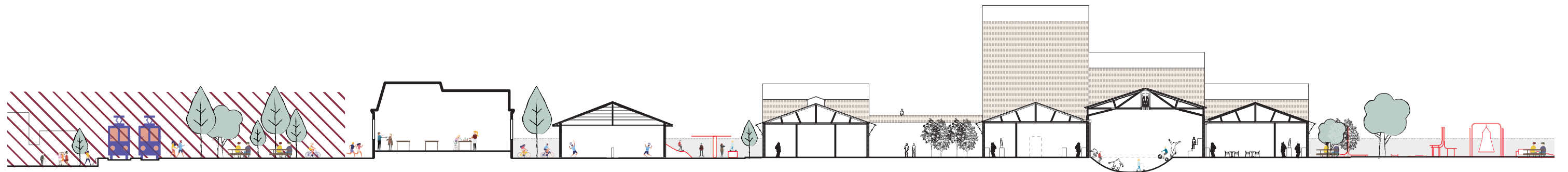


Music Industry

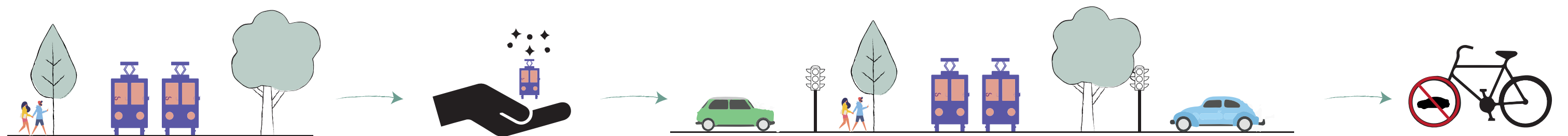




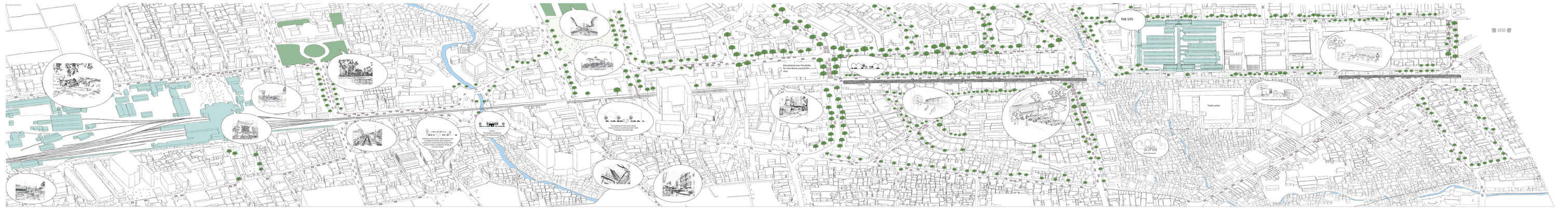
Railway becomes a **green zone**



Sites around the railway **transformed** for the **communities**



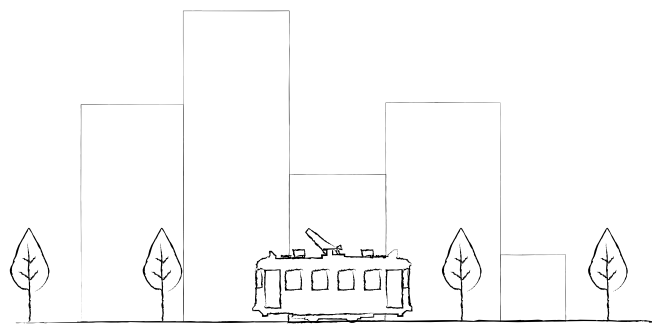
A more **sustainable** city



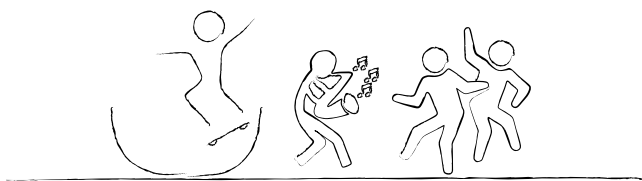
Before



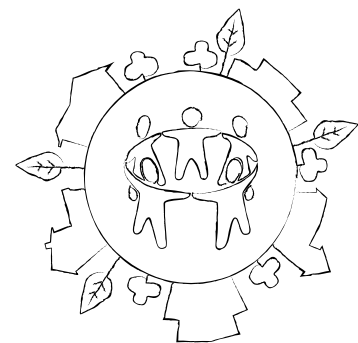
After



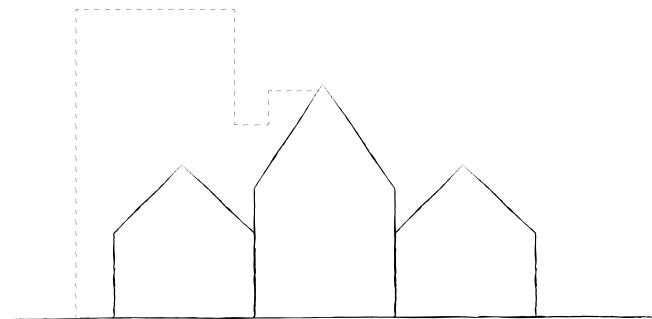
Sustainable flow in the city



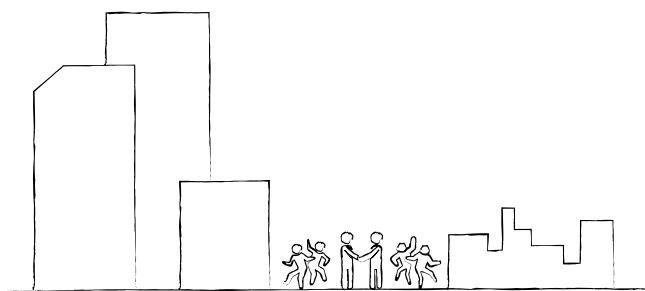
Healthy city



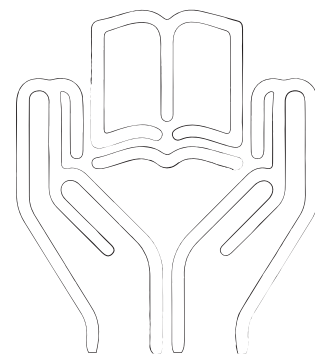
Create community spaces



Integrated conservation



Integration between neighborhoods



Educate the city

02. Strategy

Cultural Value
Program
Urban Strategy

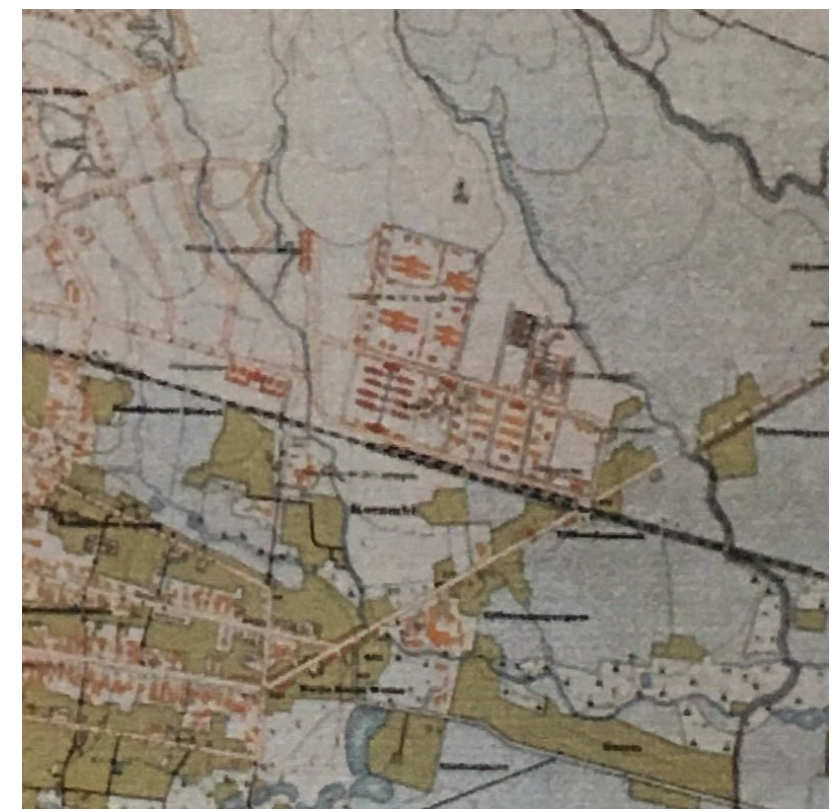




1882



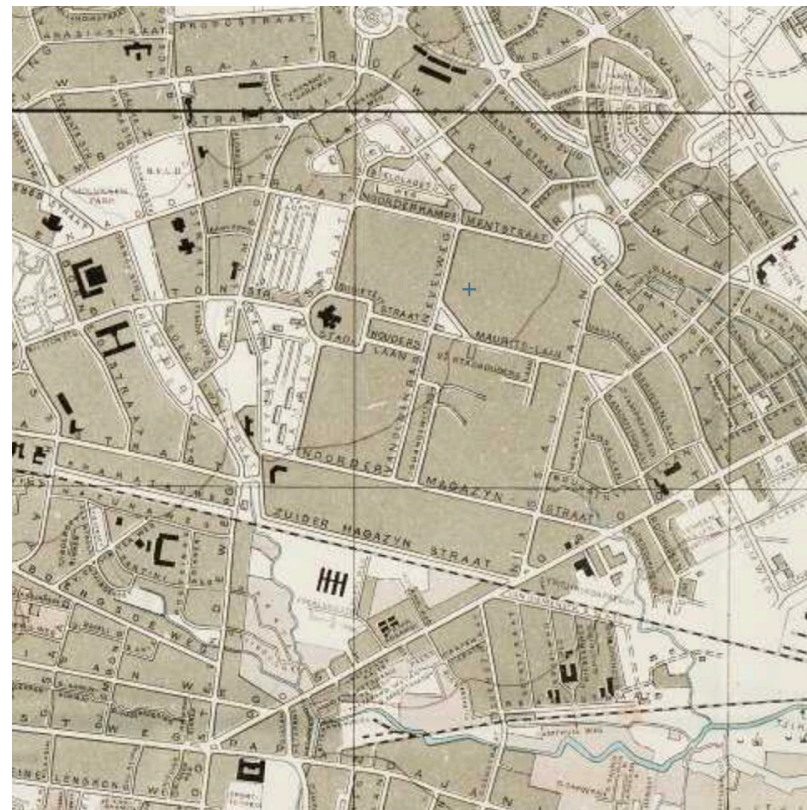
1904



1910



1921

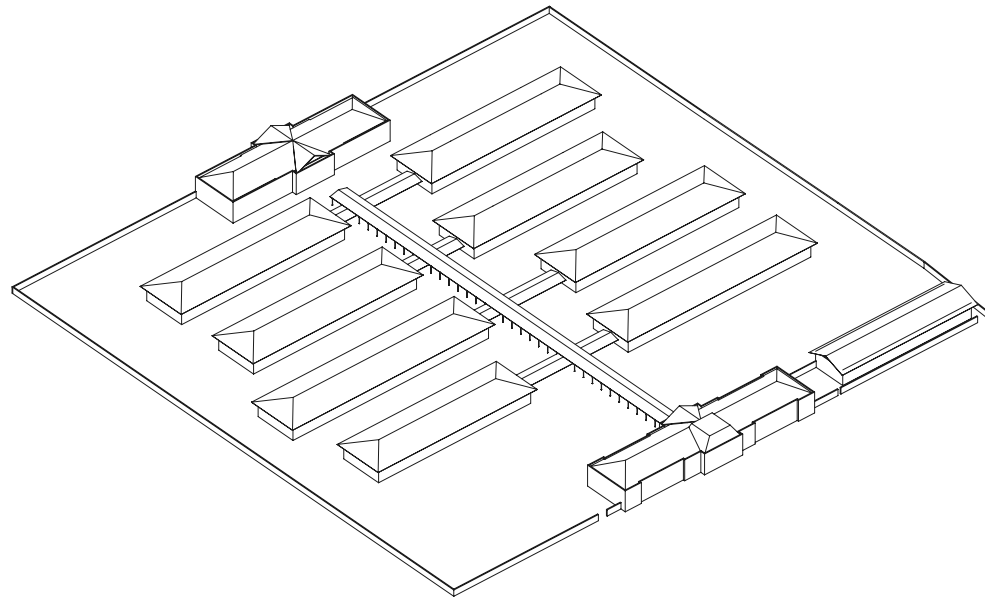


1946

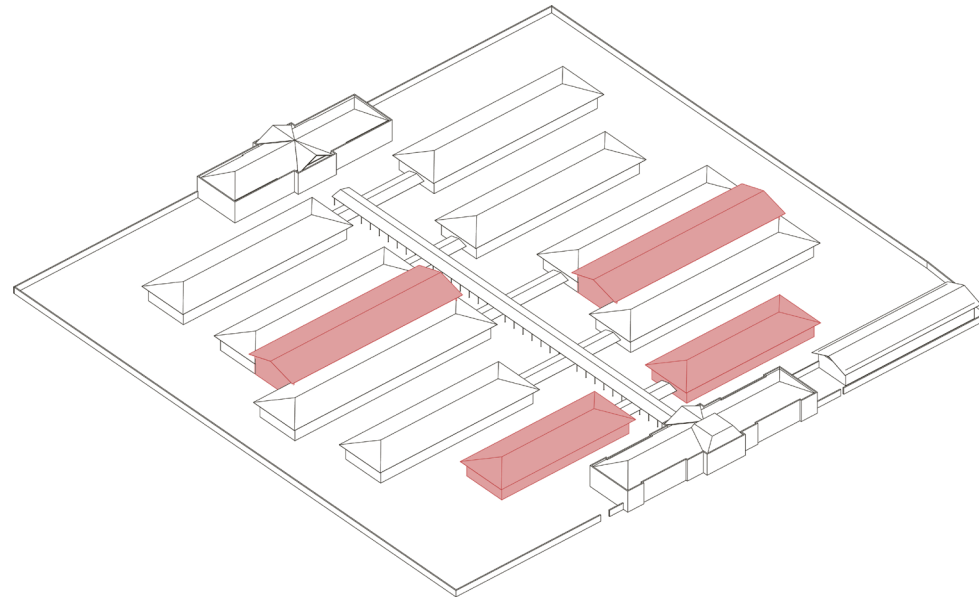


2018

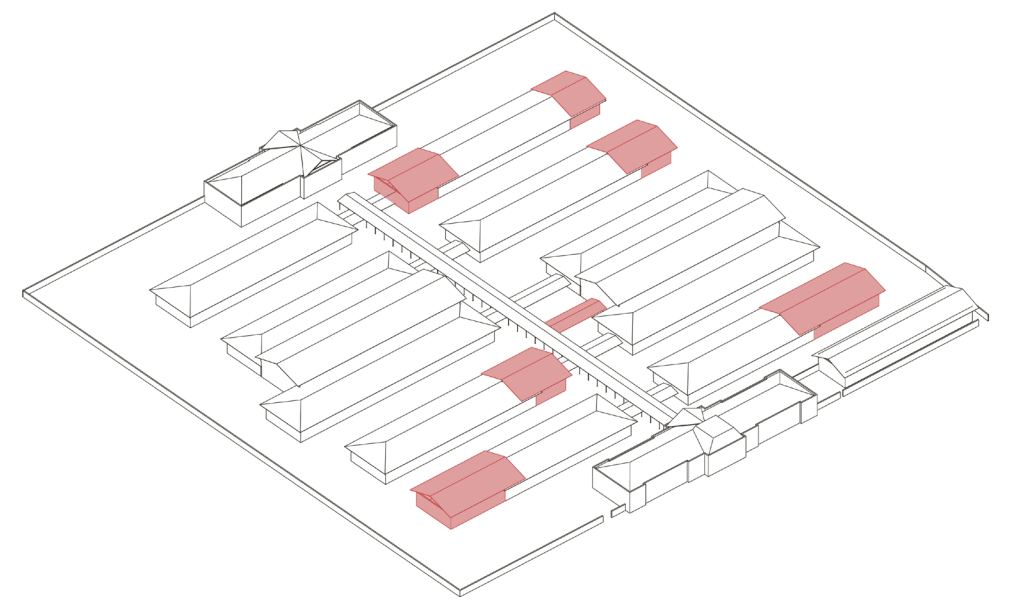
1910



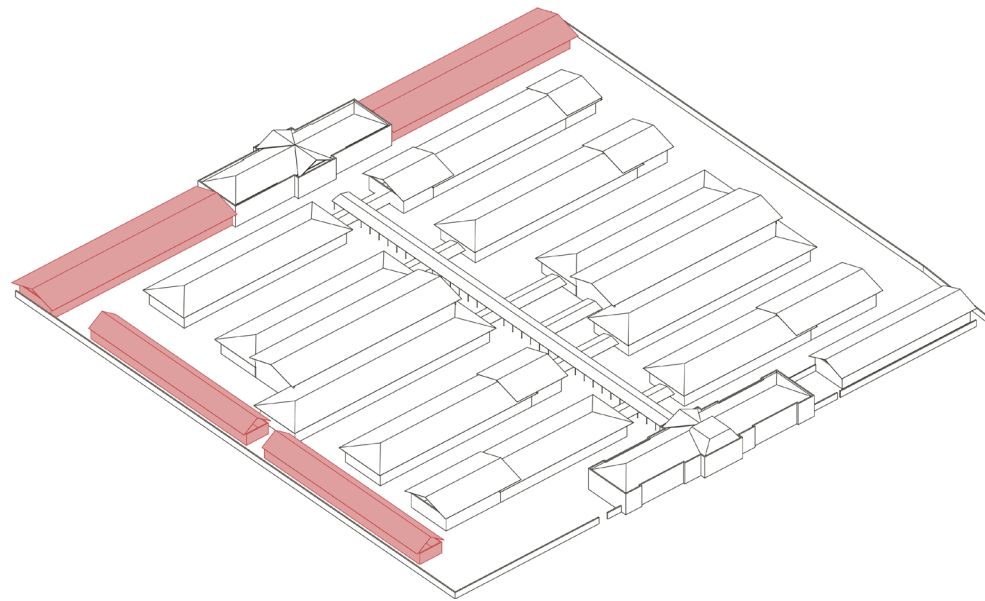
1921



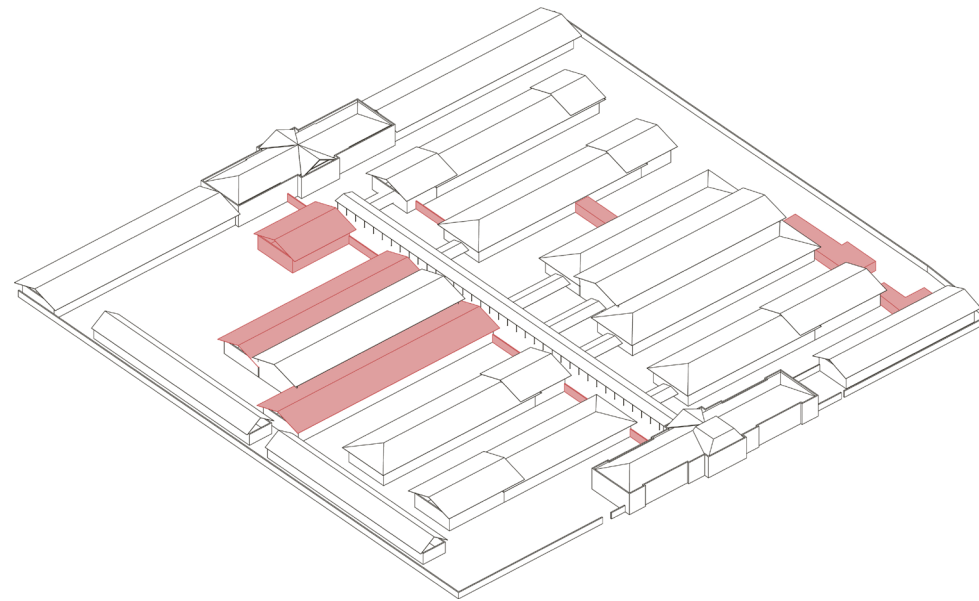
1921 - 1942

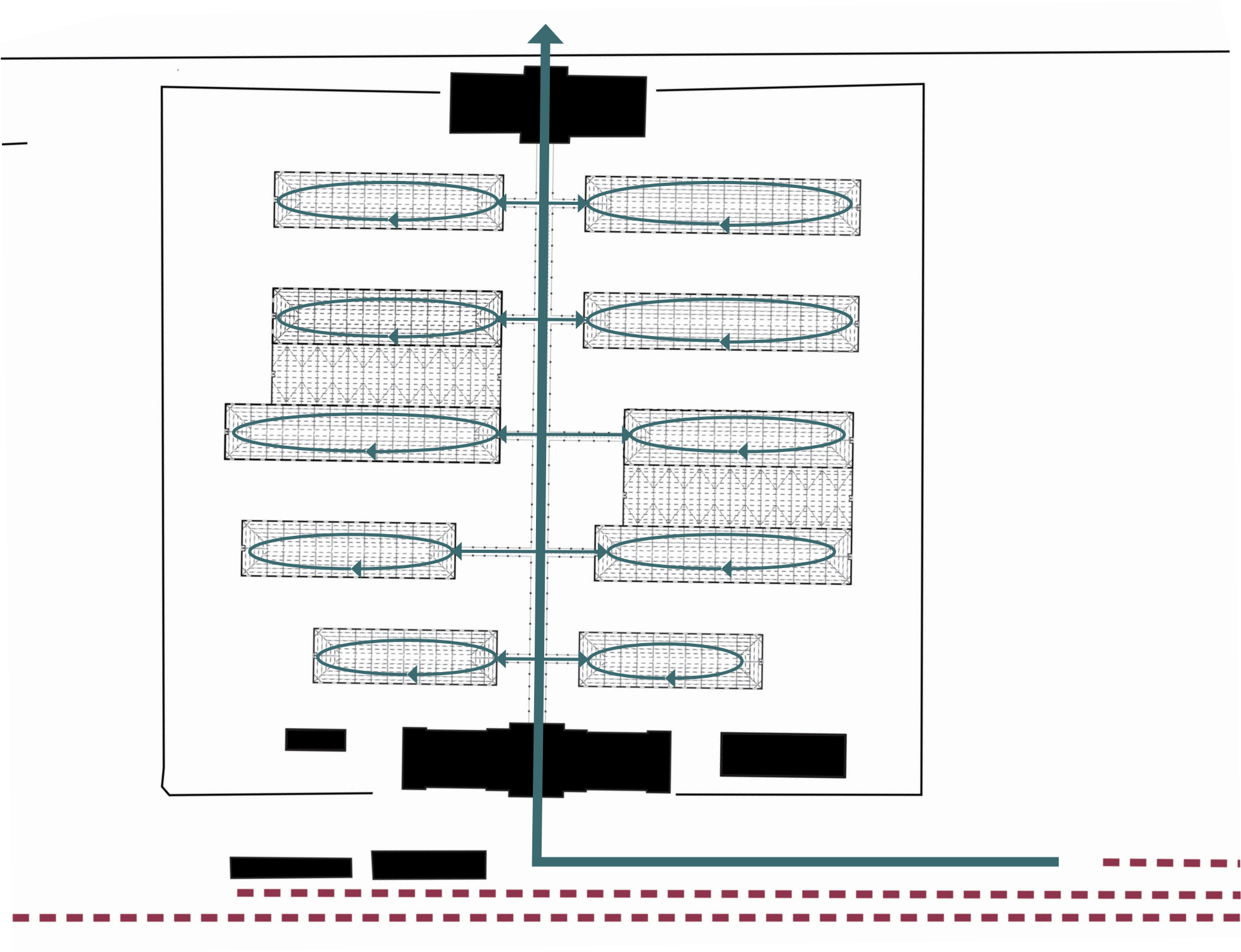


1921 - 1942



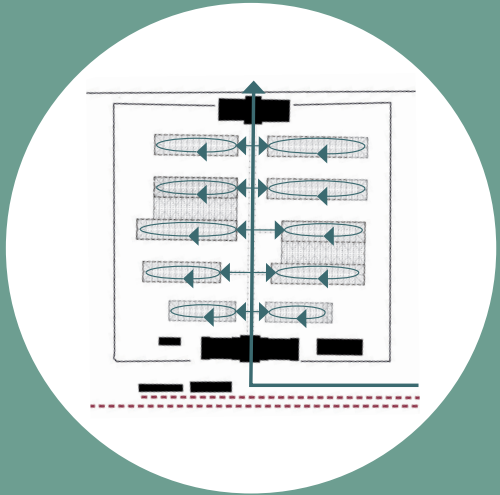
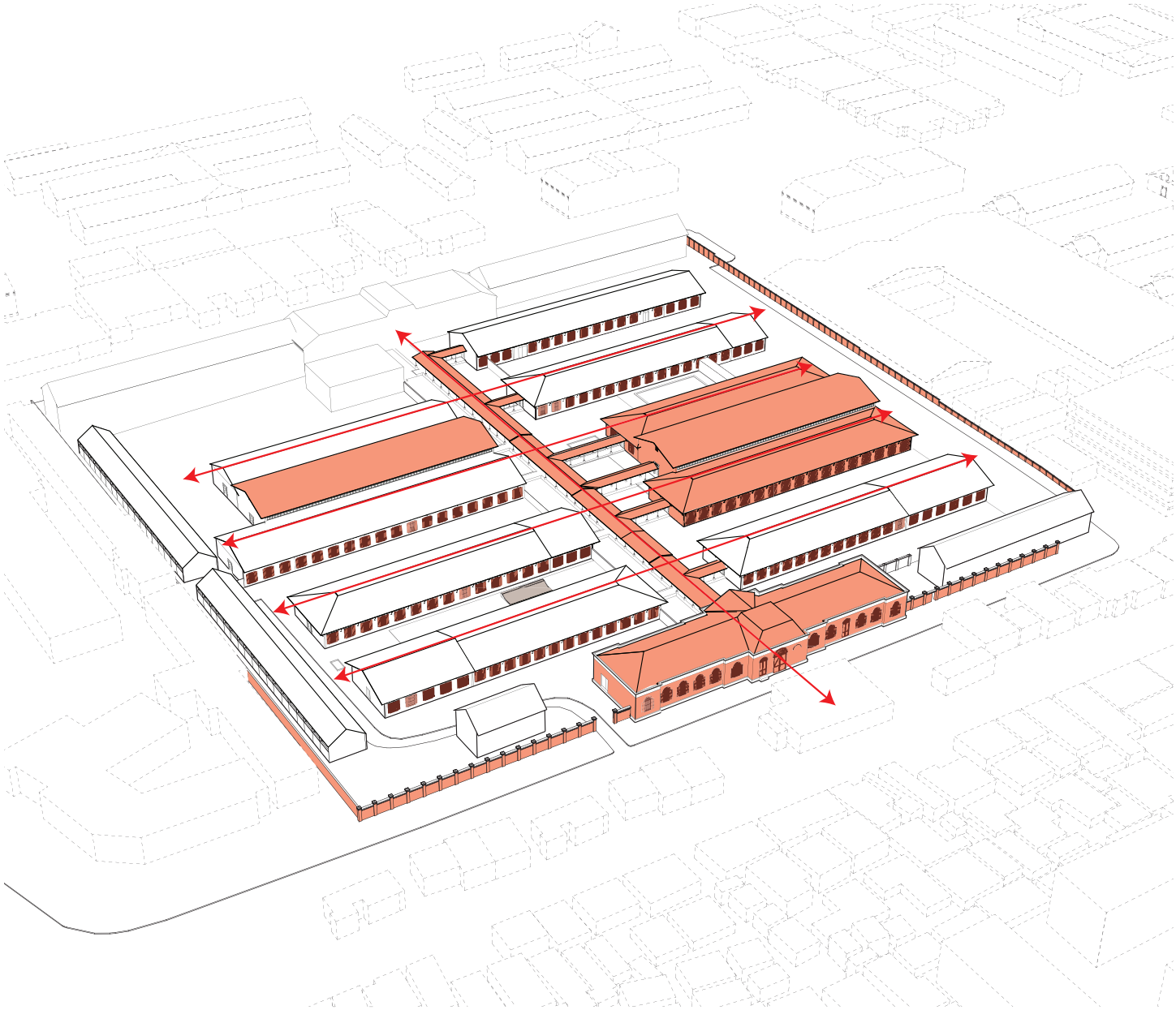
1946 - 2017





1921





Central Axis



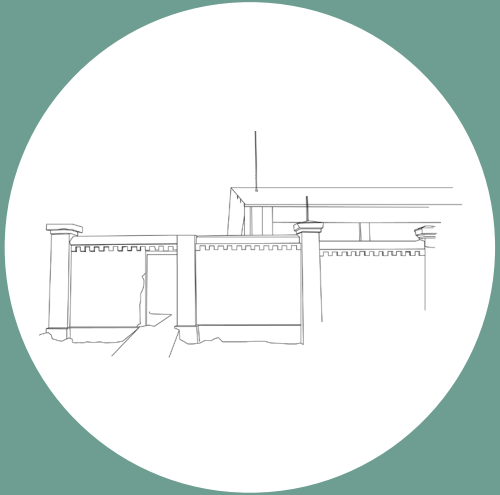
Unique Timber Roof



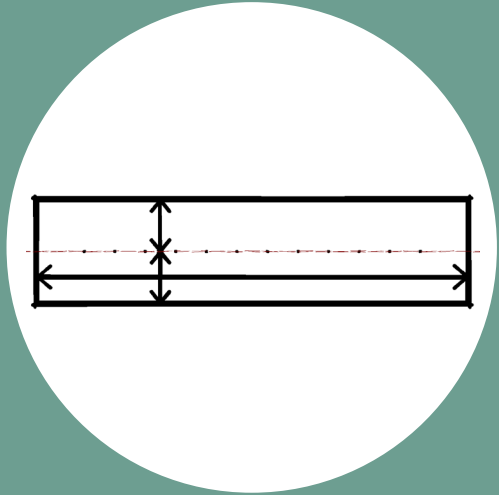
The Trolley Track



New Communities



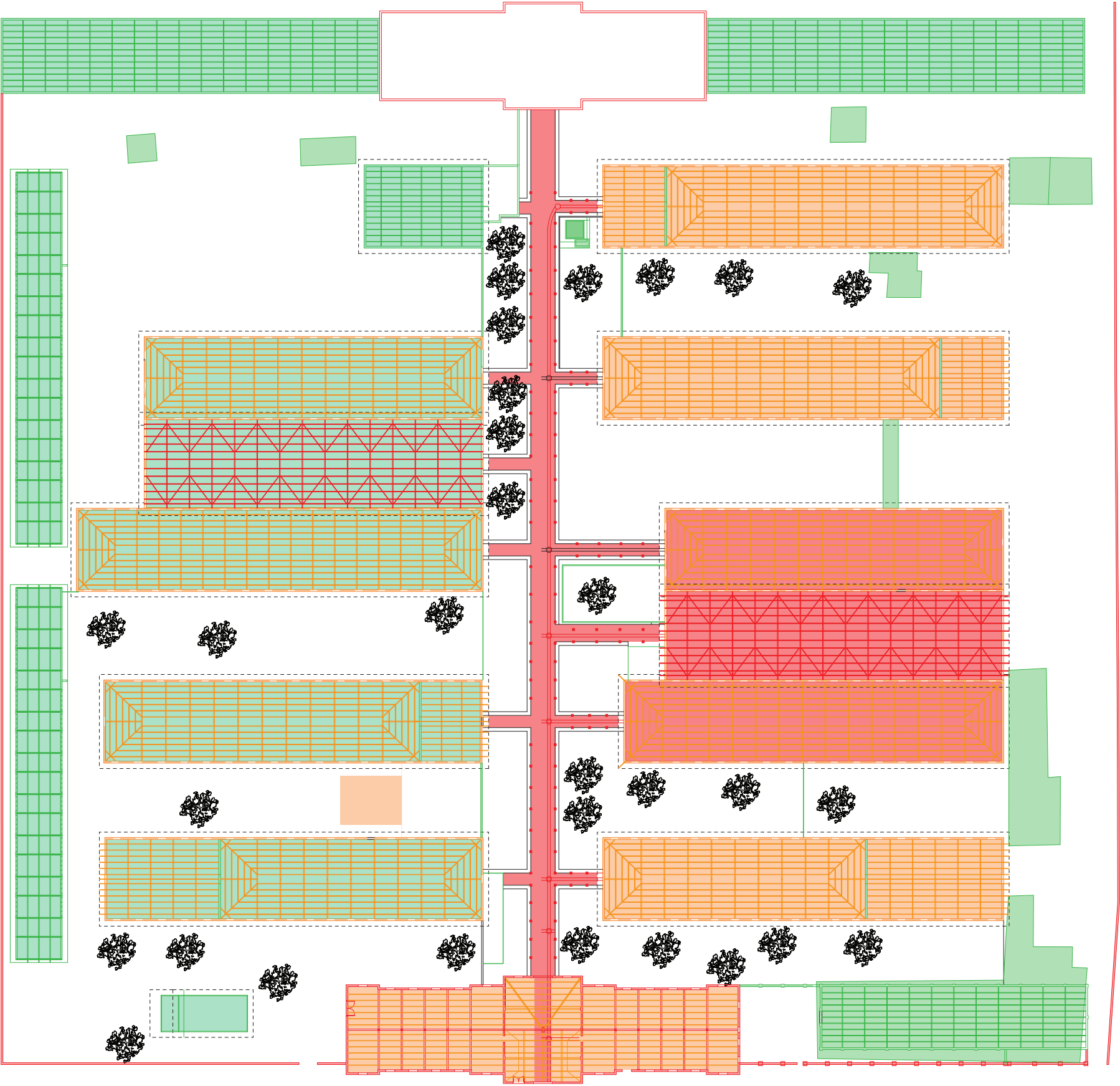
The Wall



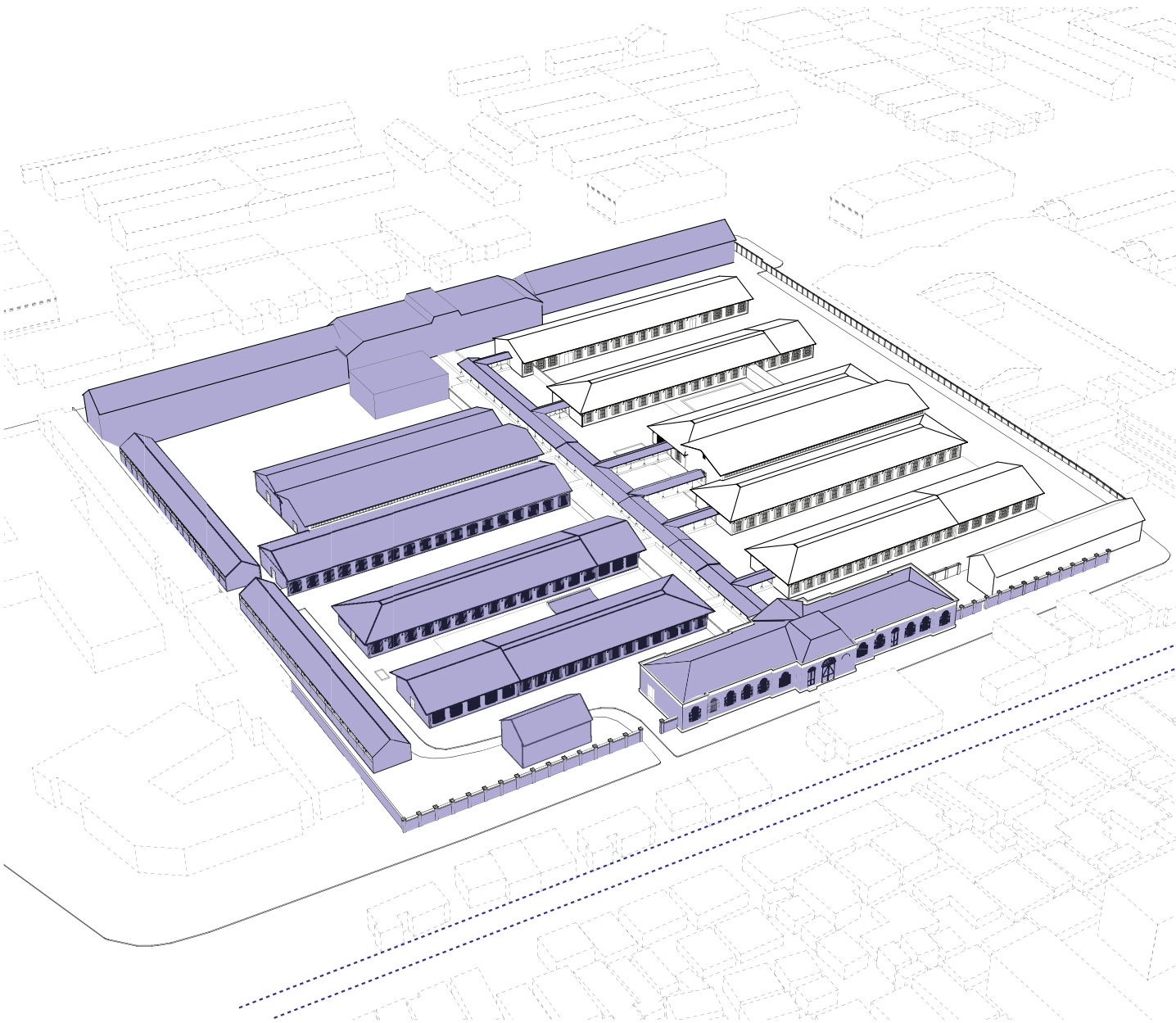
The Flexibility

Cultural Value Assessment

- High Value
- Medium Value
- Low Value



Intervention Location



Connect



Nurture

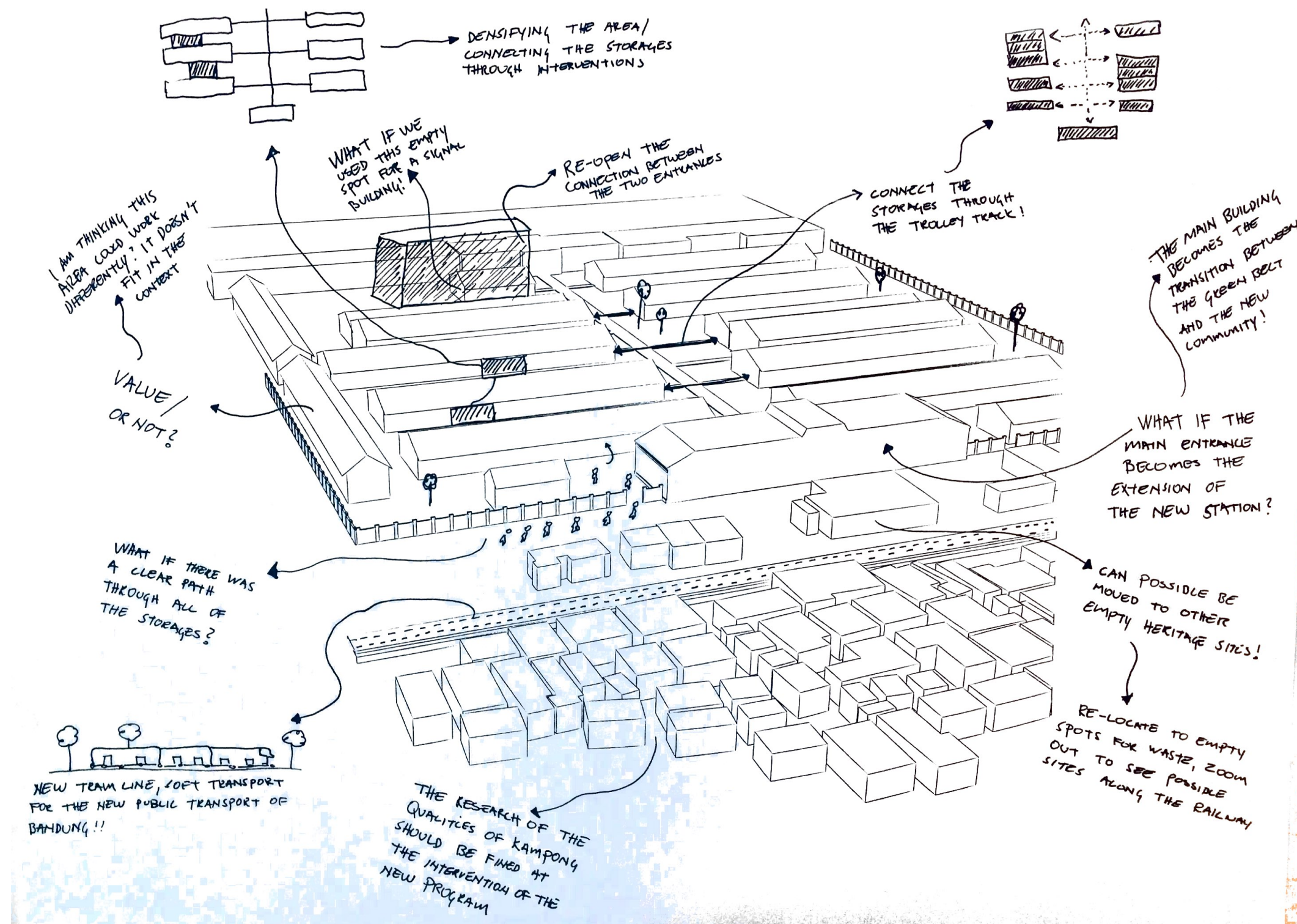


Educate



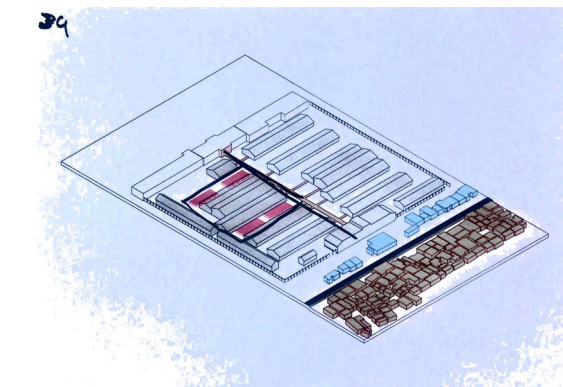
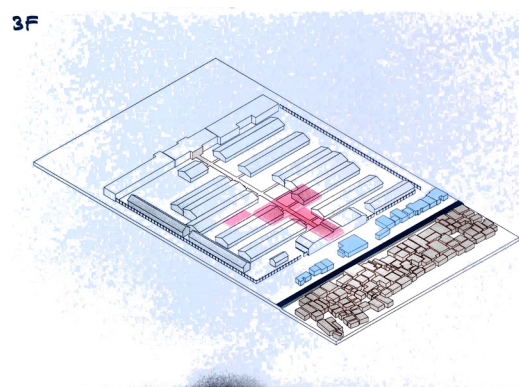
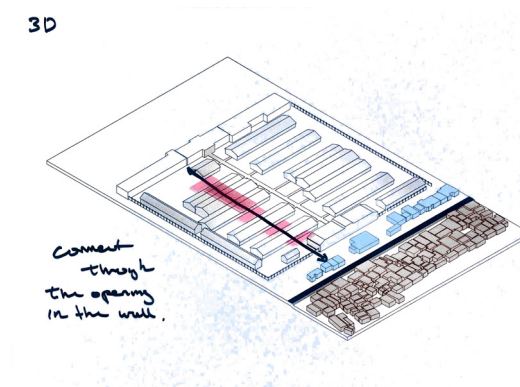
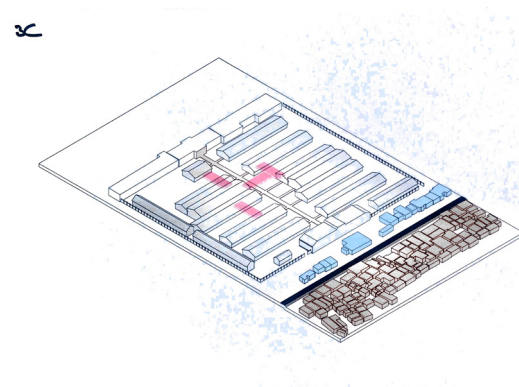
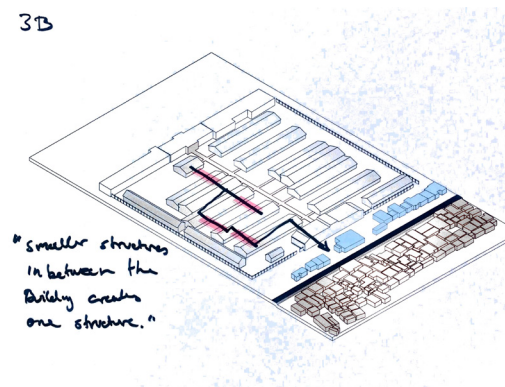
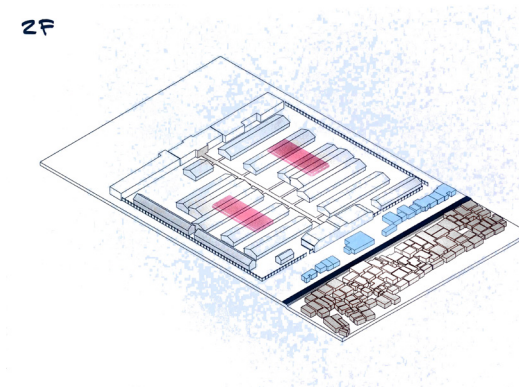
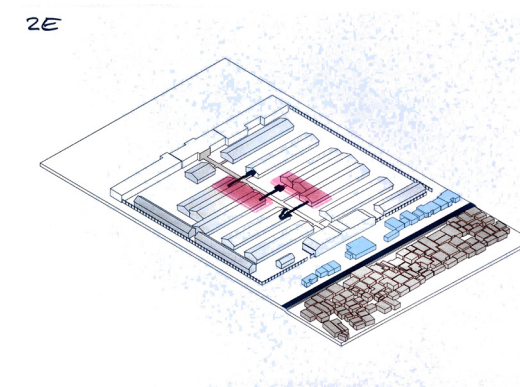
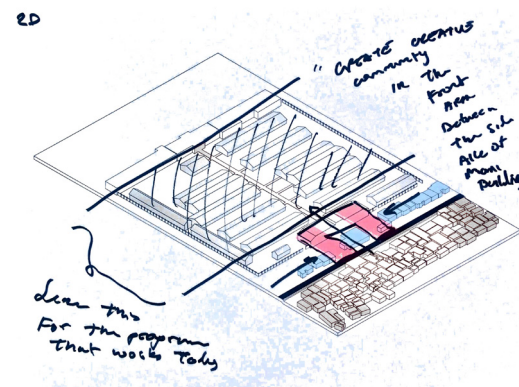
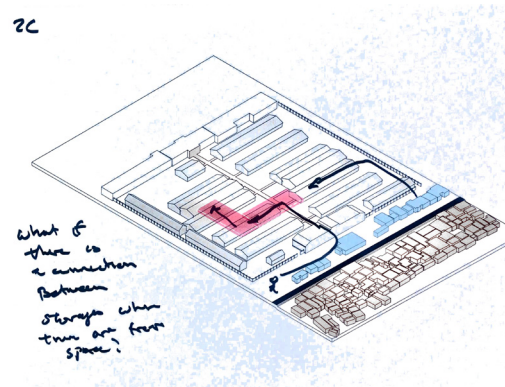
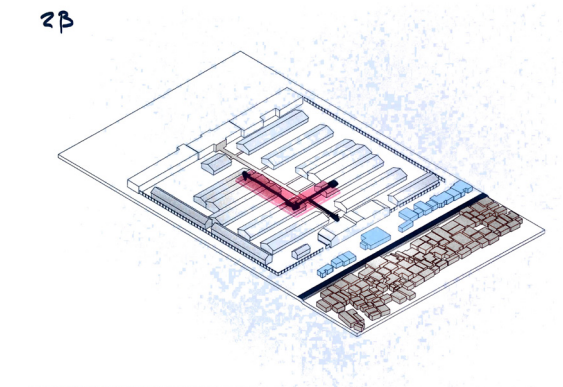
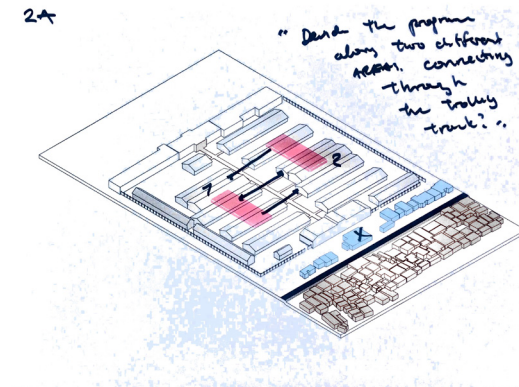
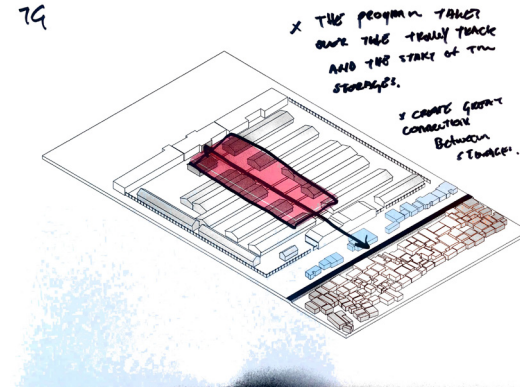
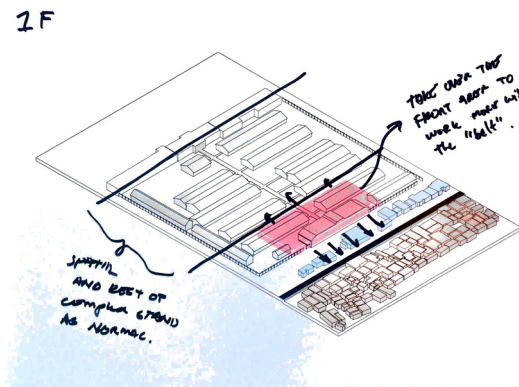
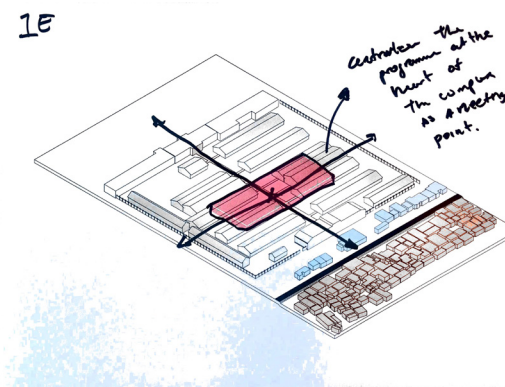
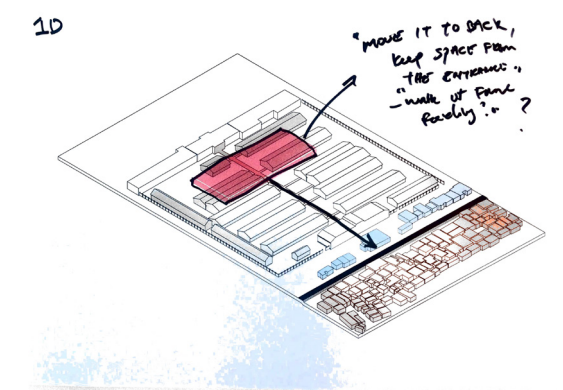
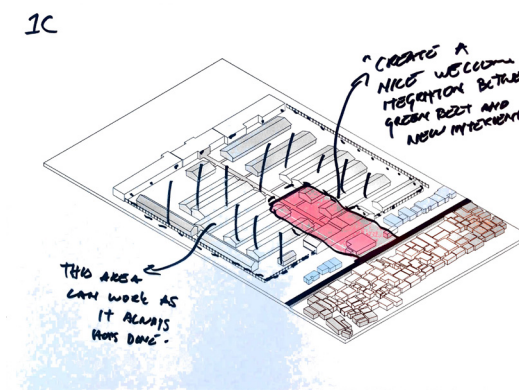
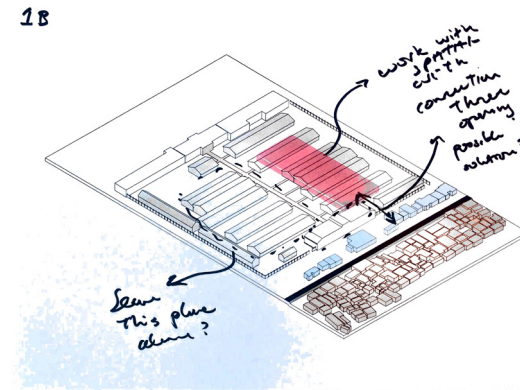
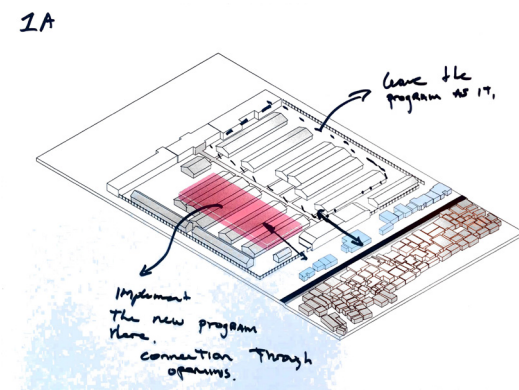
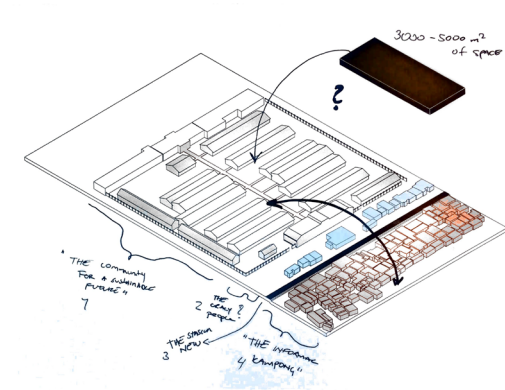
Integrate





Research by design

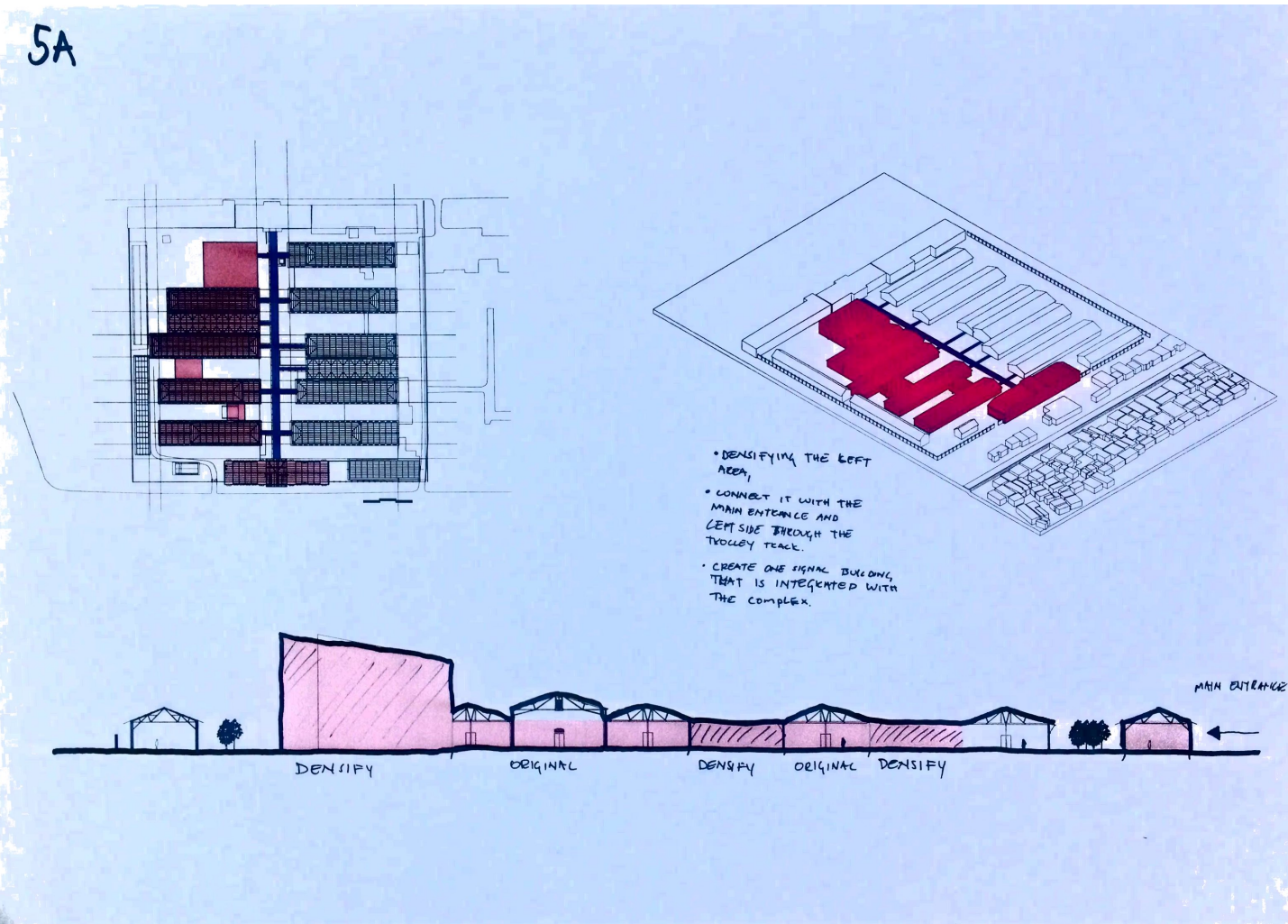
- Process work



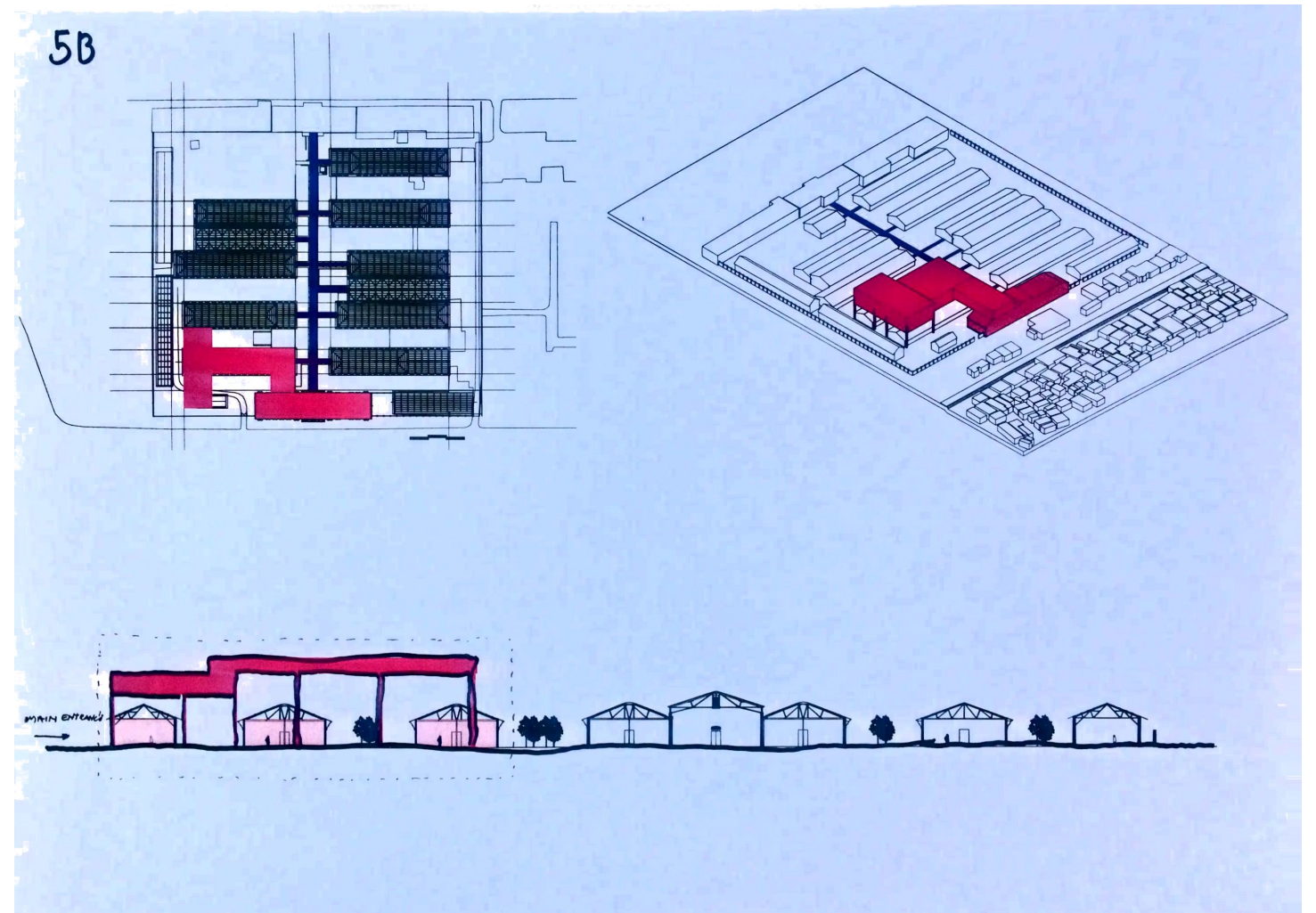
Research by design

- Process work

5A

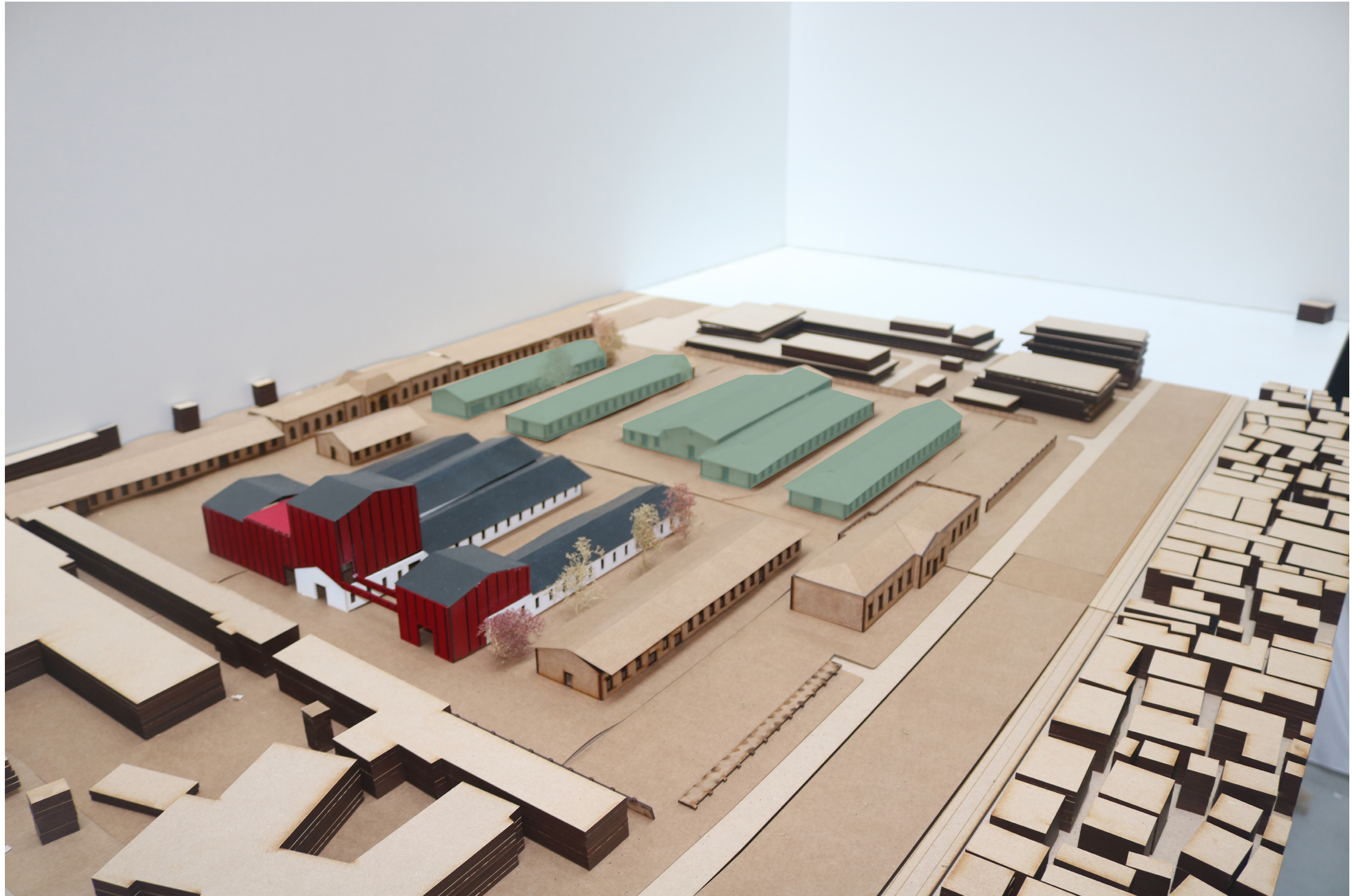


5B



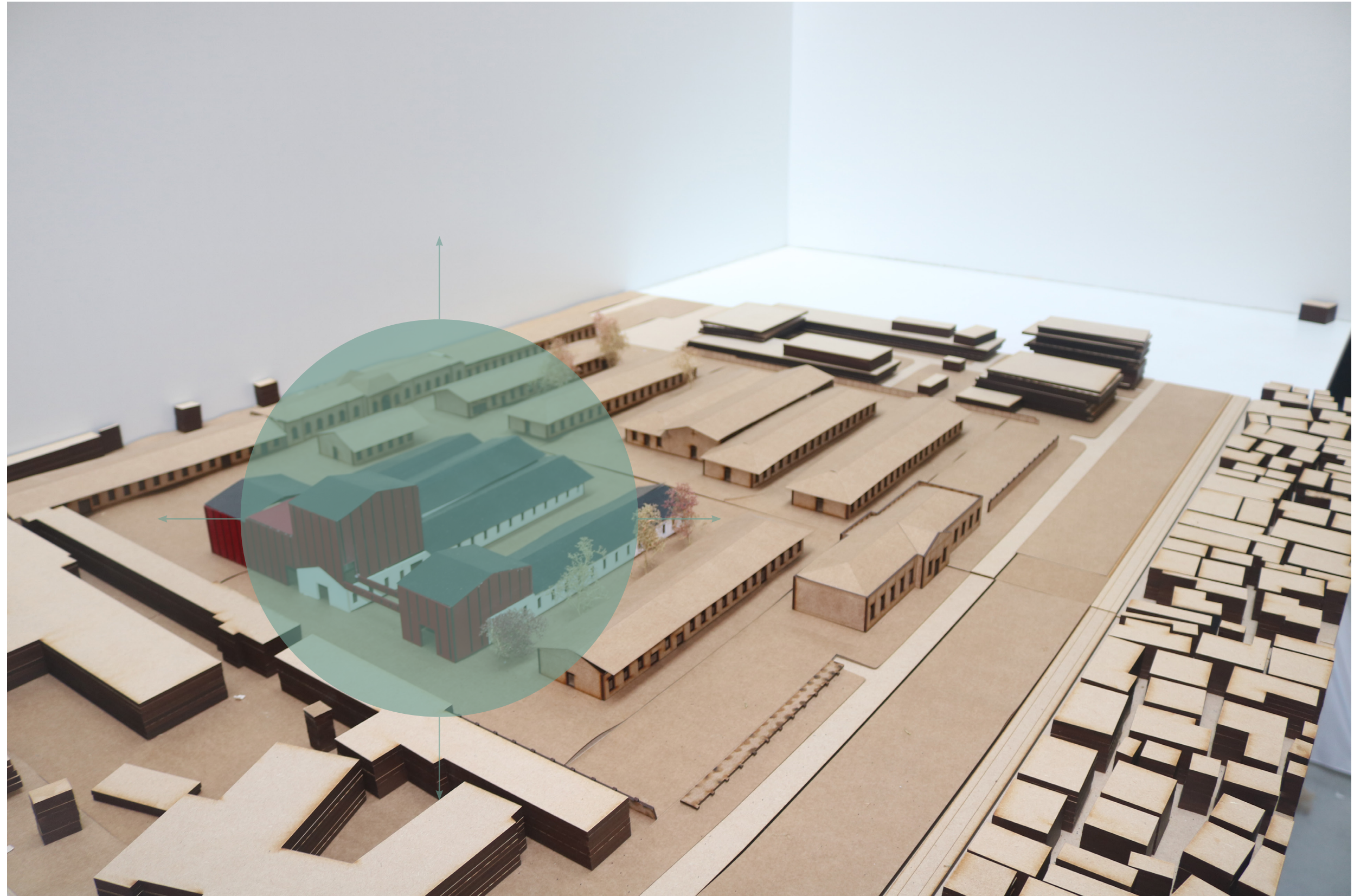
Research by design

- Process work

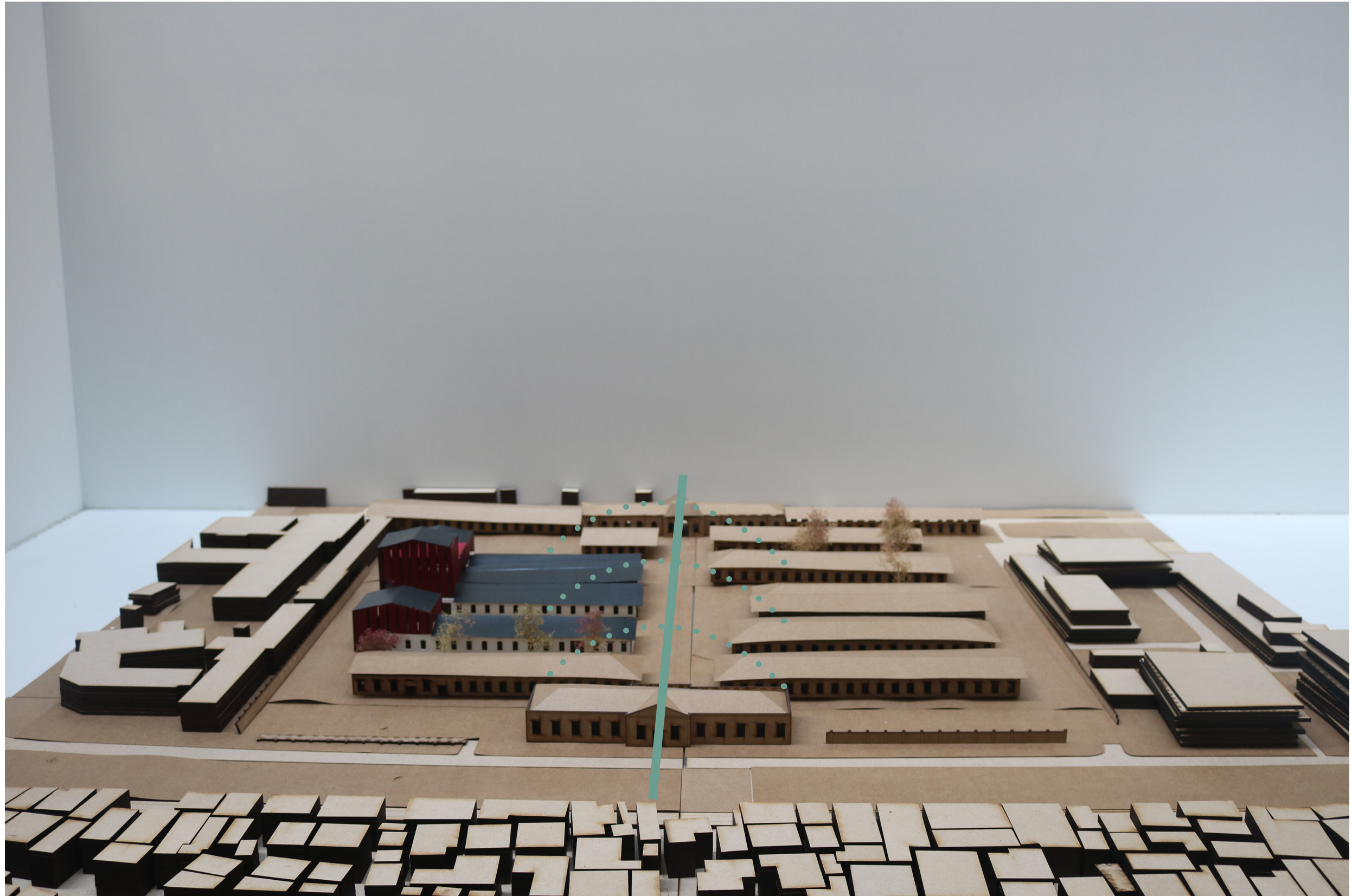


Nurture

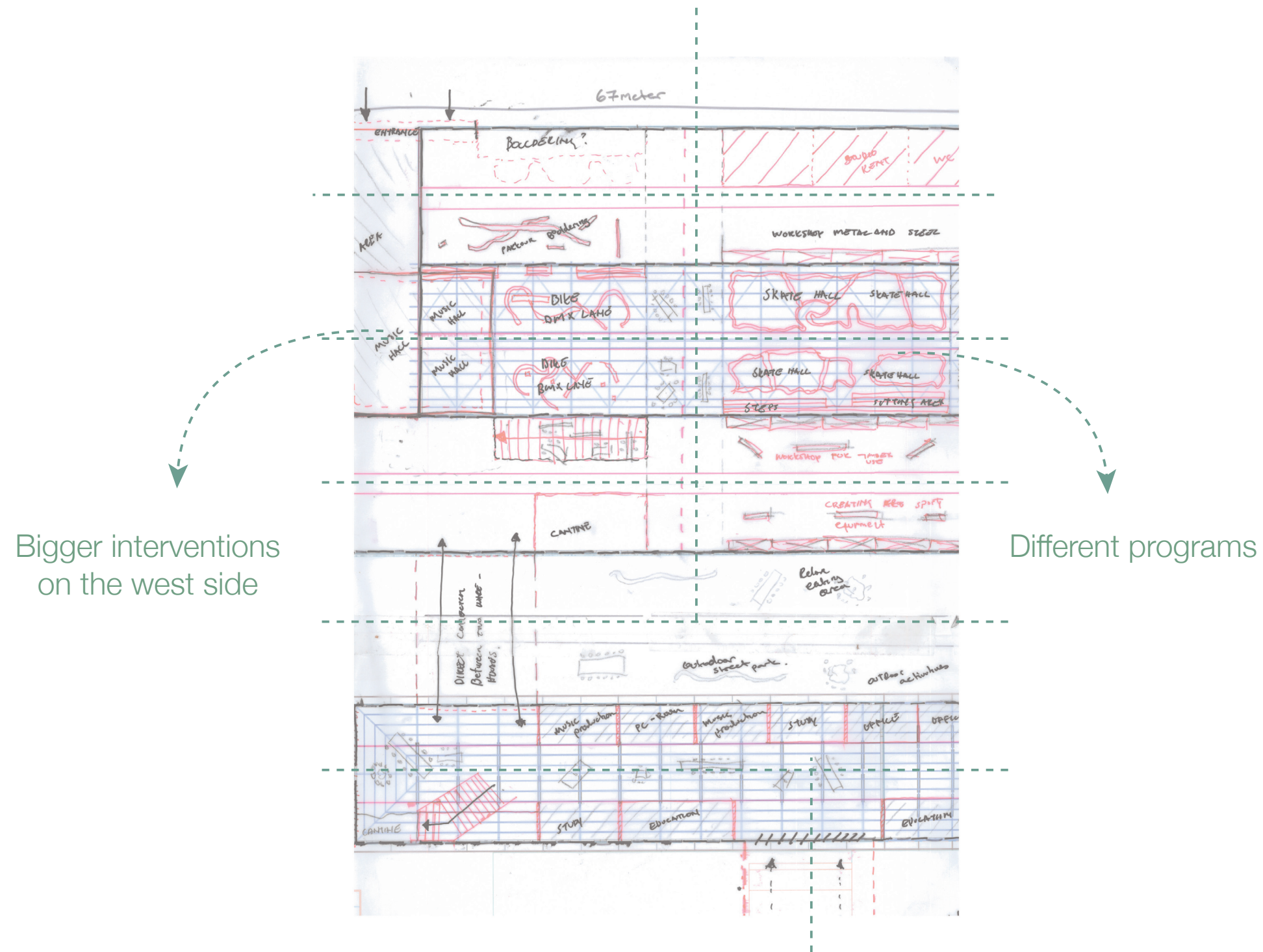
- Position decision



Centralize

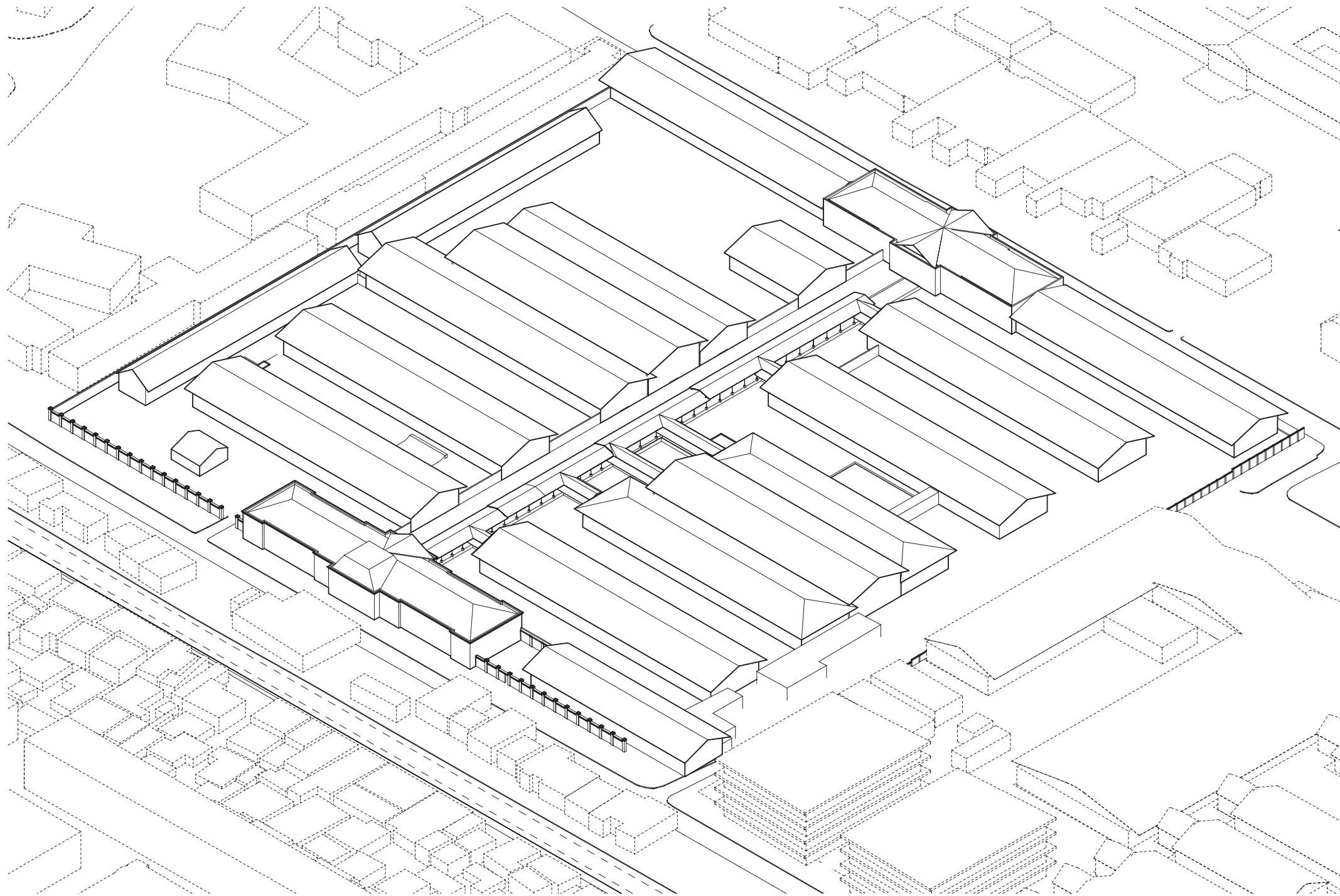


Natural

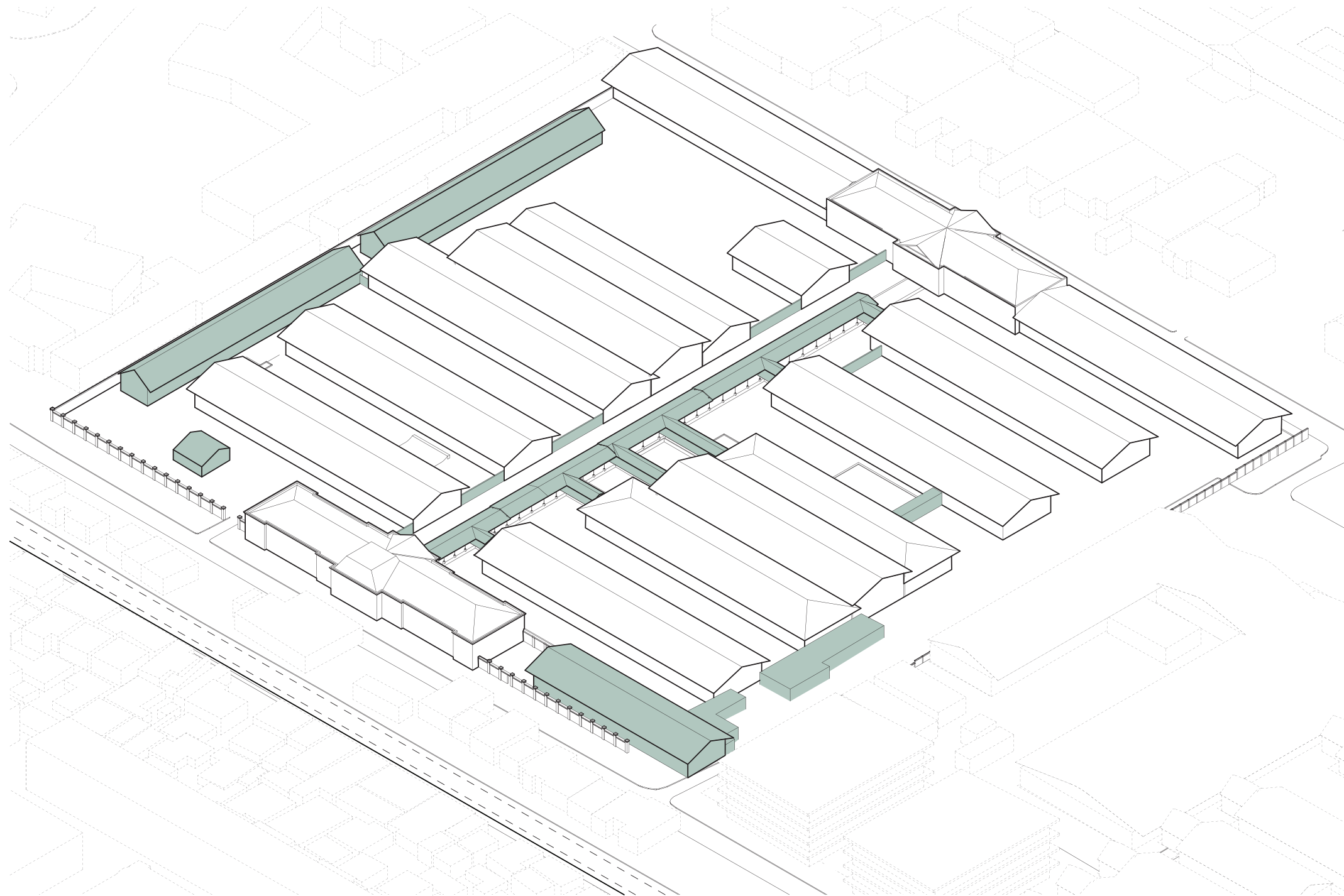


Research by design

- Positioning the program

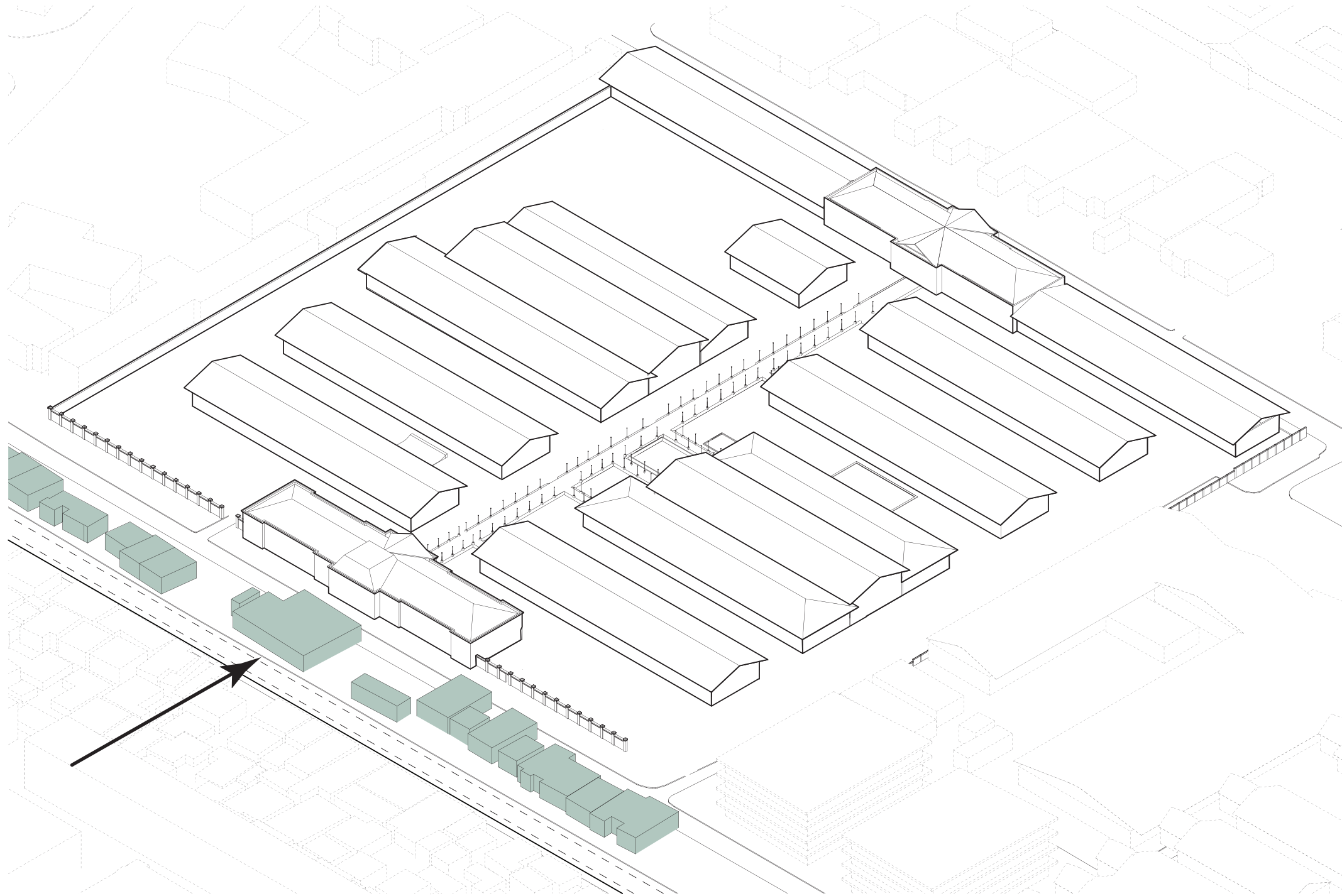


Existing Site



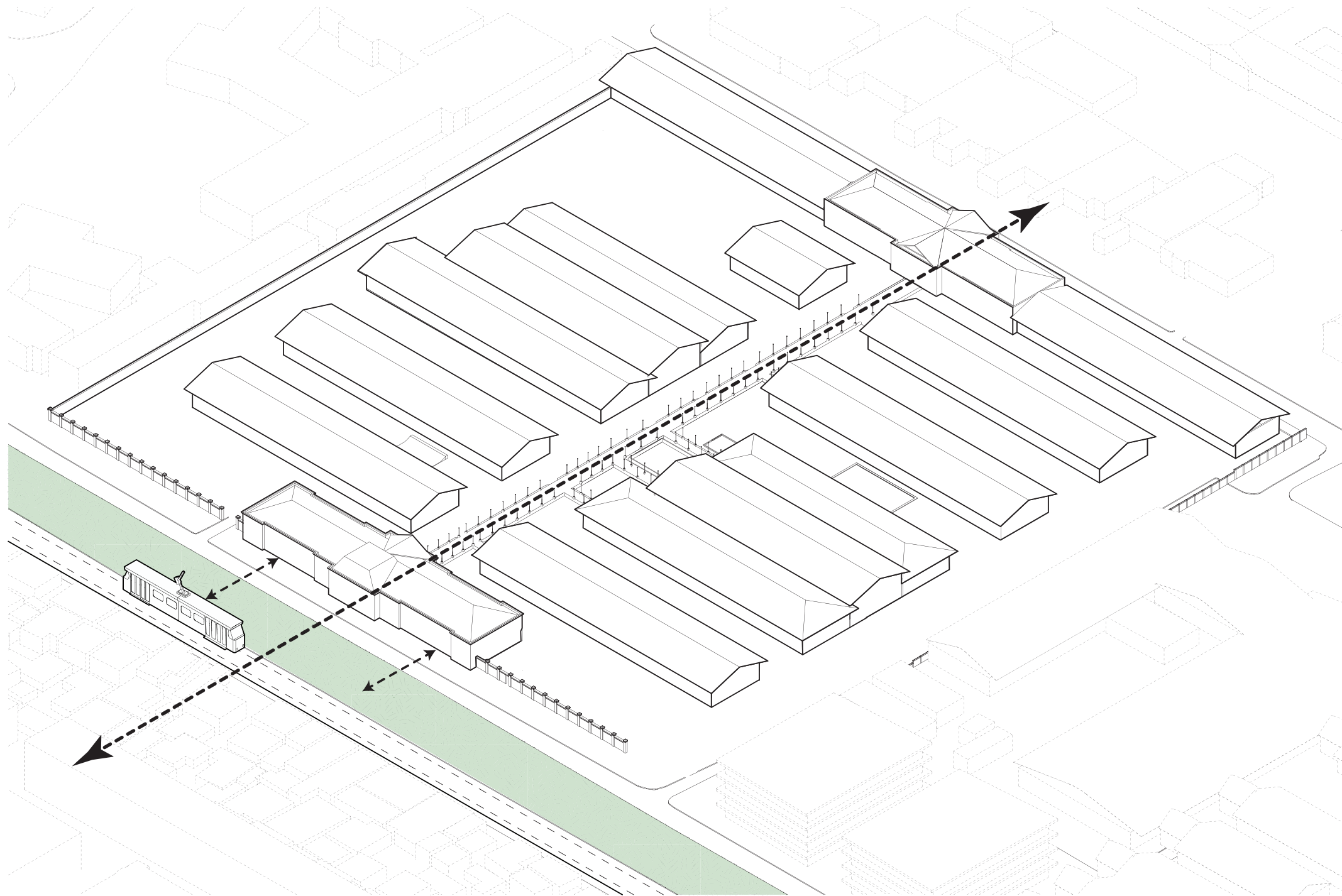
Removing

- Re-use



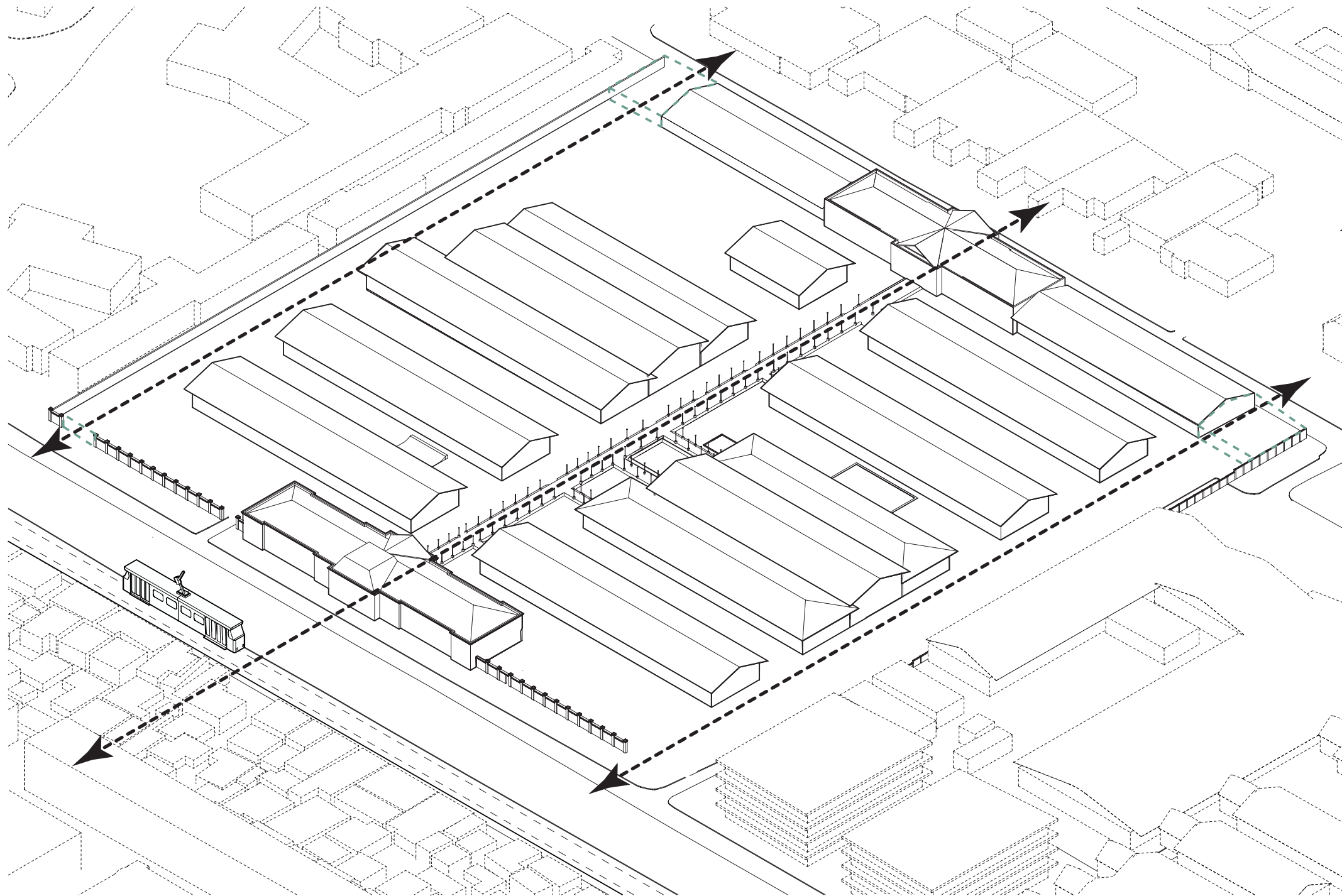
Integrate

- Move the waste / buildings to another empty - adapted area



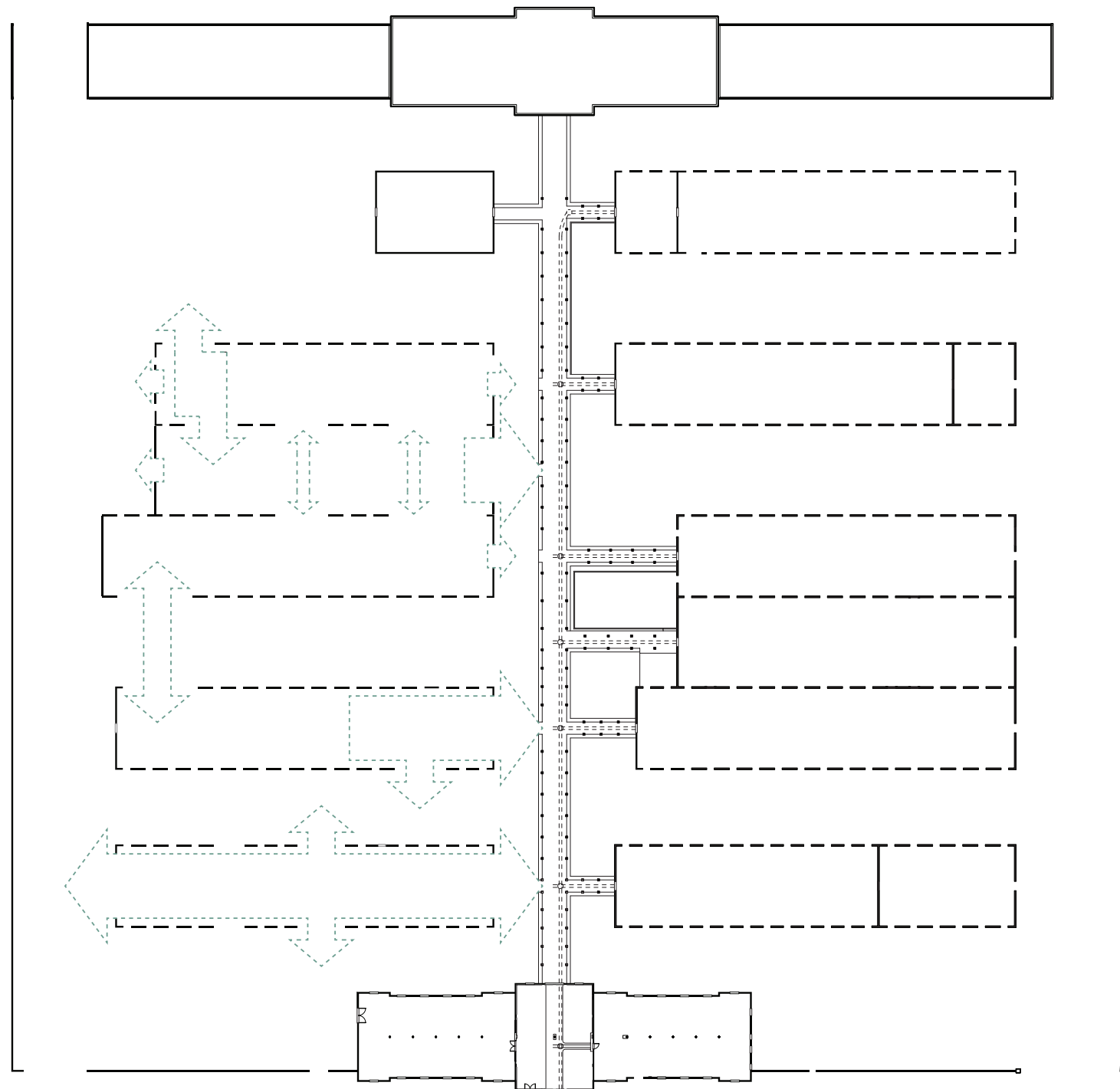
Direct Connection | Adapt Tram System

- Area in front of the complex becomes a meeting point



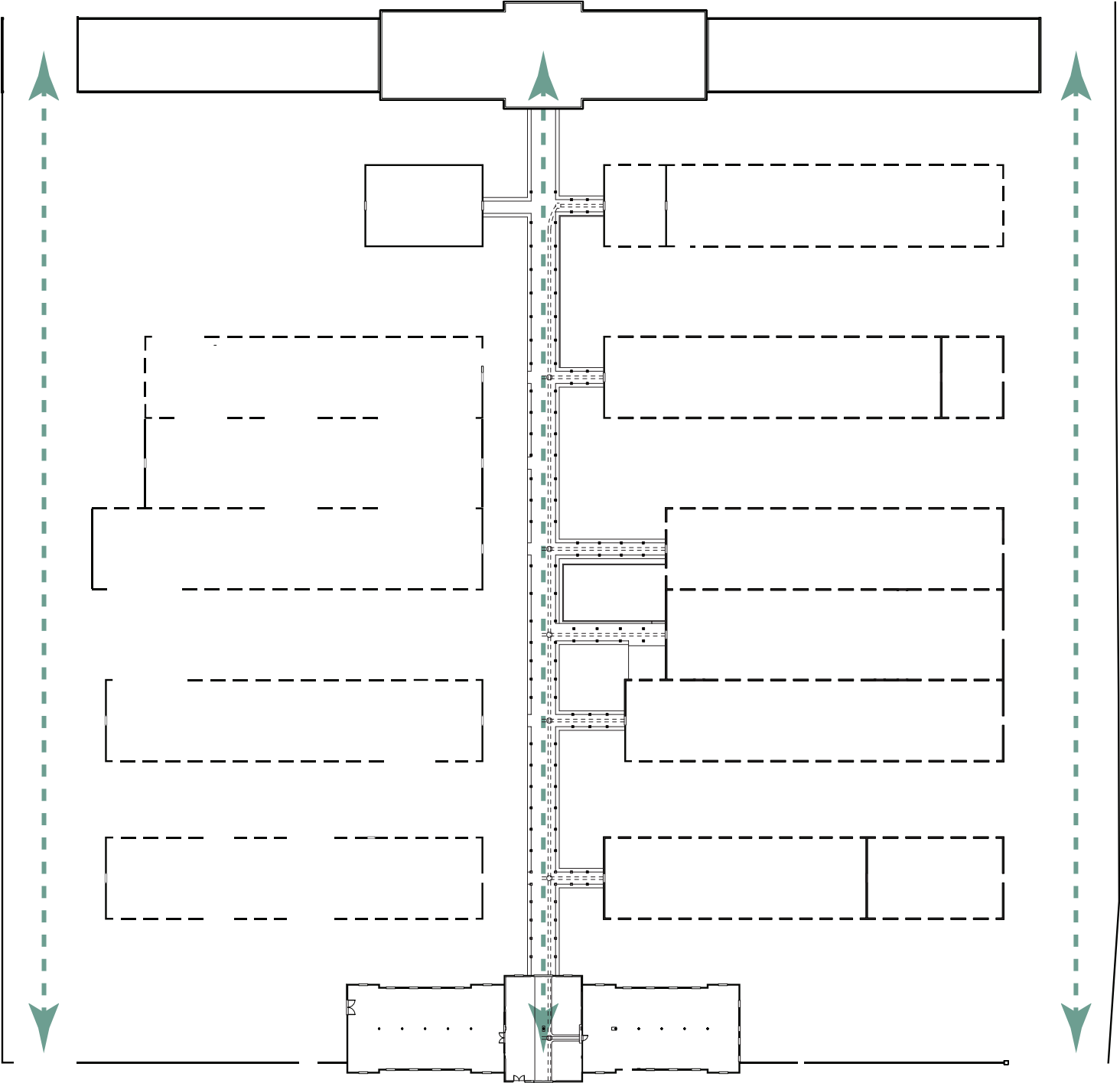
New Semi Axis

- Make use of the passages



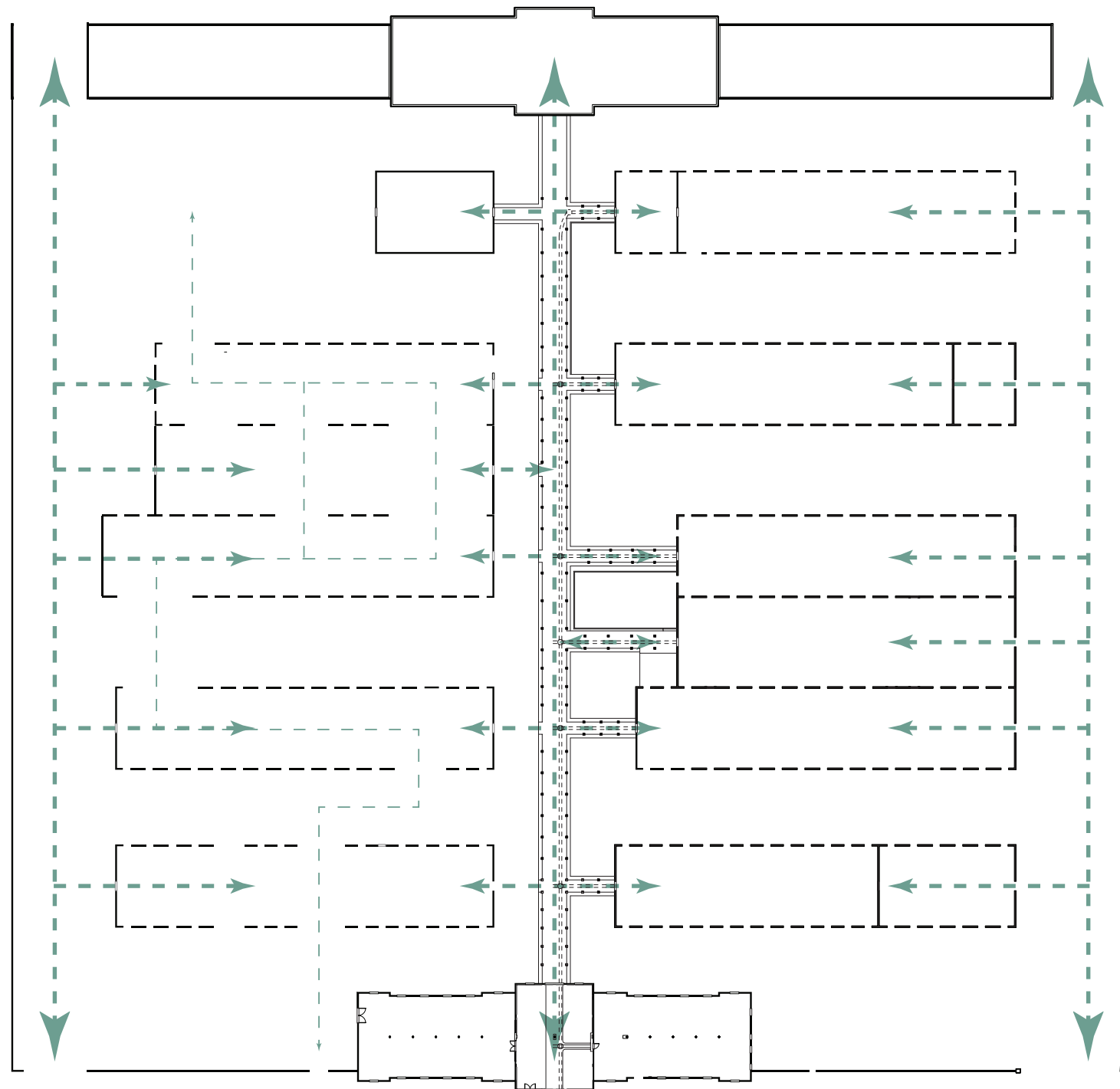
Opening Up

- Opening up according to program concept and the program function



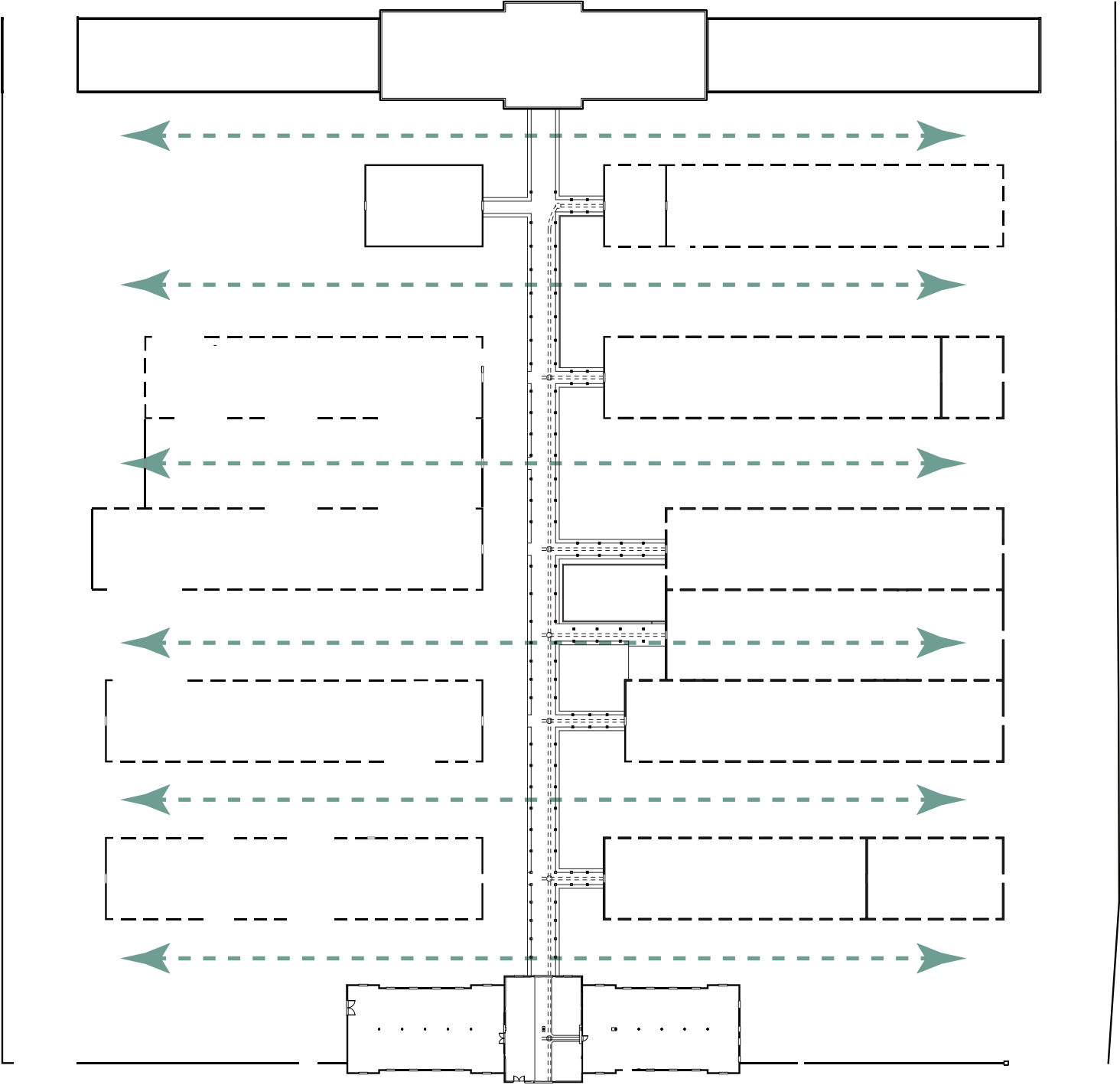
Main Circulation

- The sides becomes a programmatic circulation, whilst the mid part is revitalizing the sites historic past

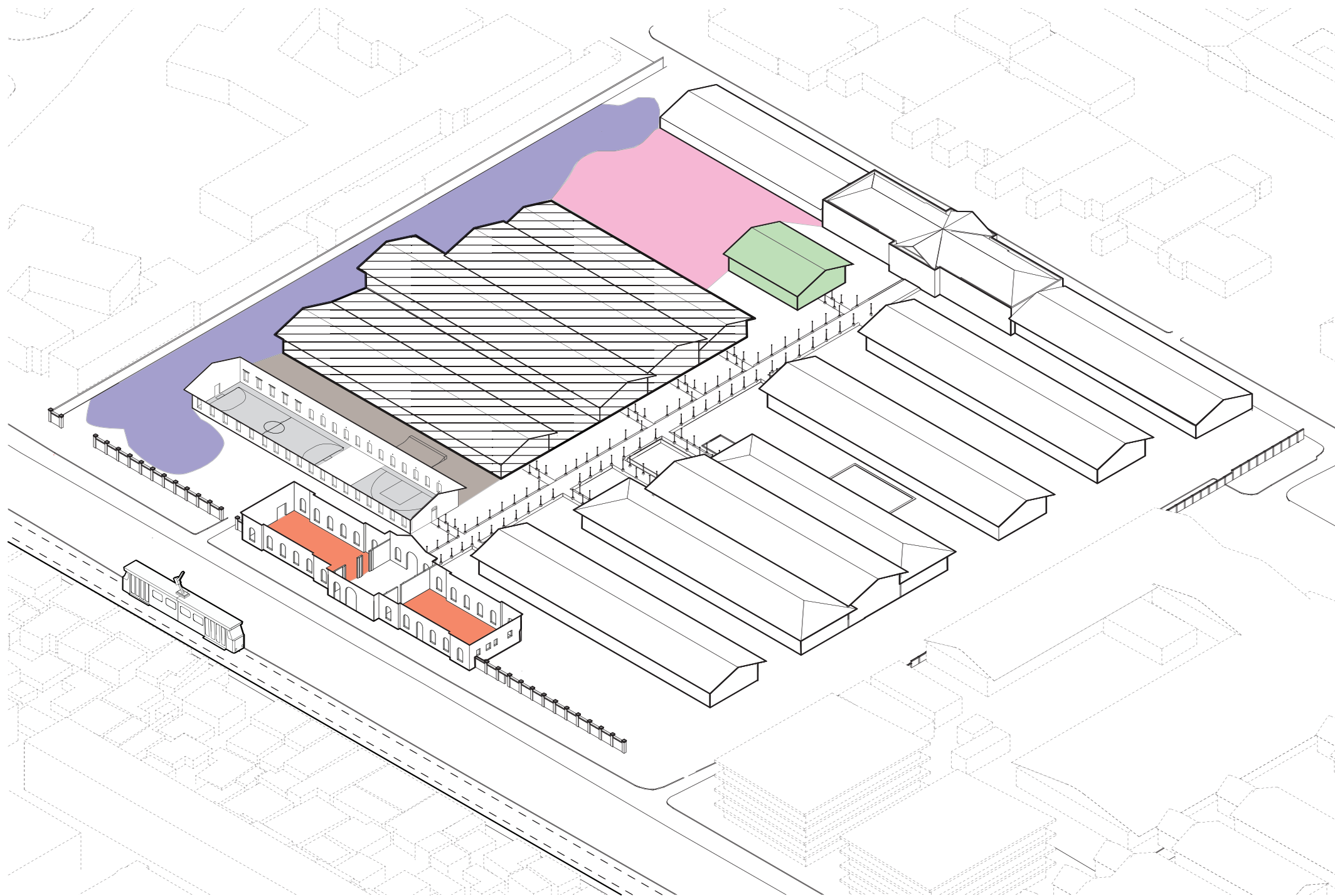


Bridging The Site

- Building are connected through internal circulation
- Trolley track is back
- Connecting the storages from both sides



Preserving The Typology



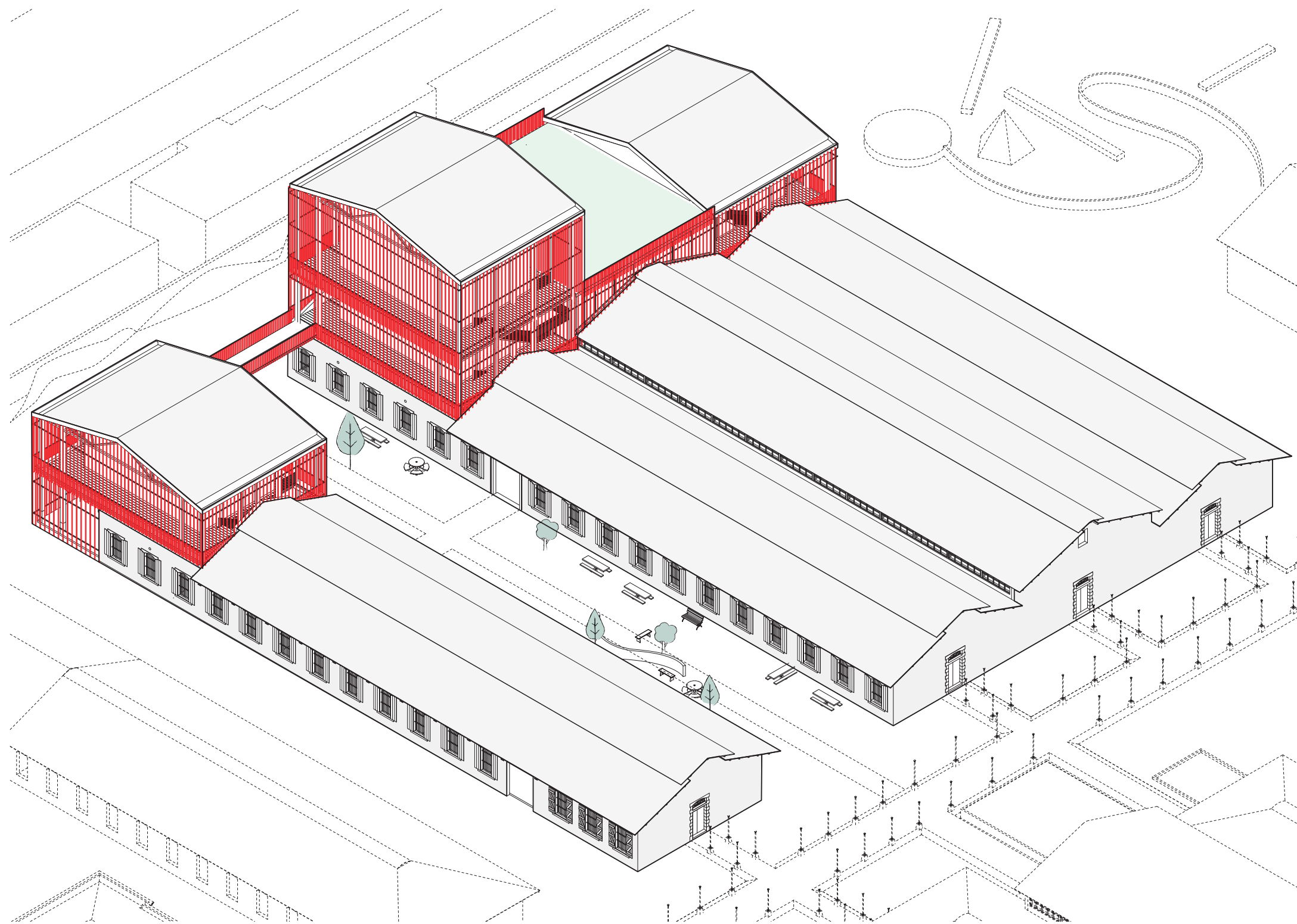
Station 750 m2	Outdoor Passage 2250 m2	Educational Park 1400 m2	Football & Basket 700 m2	Outdoor Skating 700 m2	Mosque 250 m2	Music / Theater 2000 m2	Indoor sport 700 m2	Workshop 700 m2	Total / 9450 m2
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Program Strategy

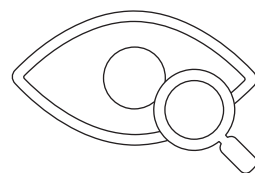


Master Plan 1:1000

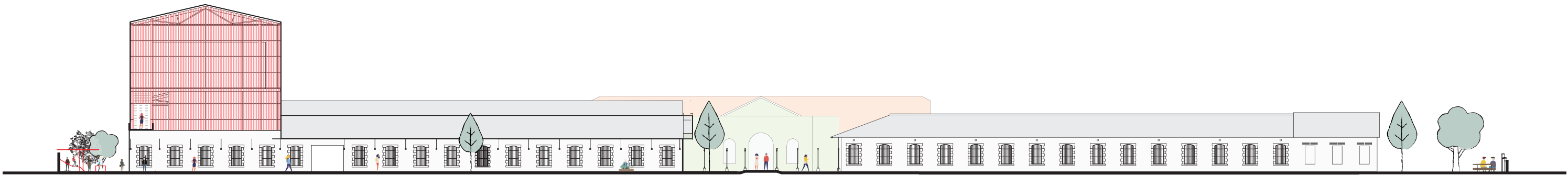
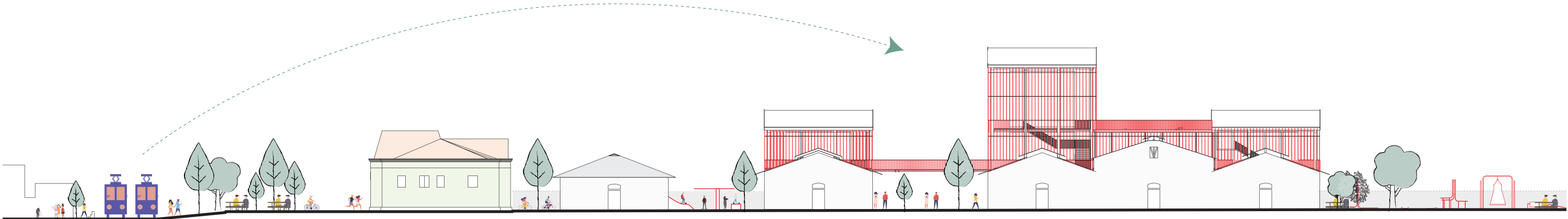
03. Implementation / Interventions



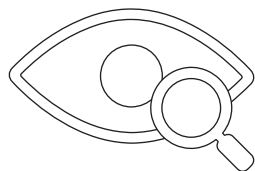
View | Icon | Materiality





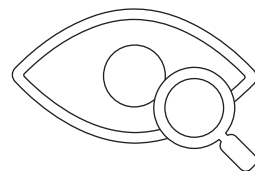


View | Icon | Materiality



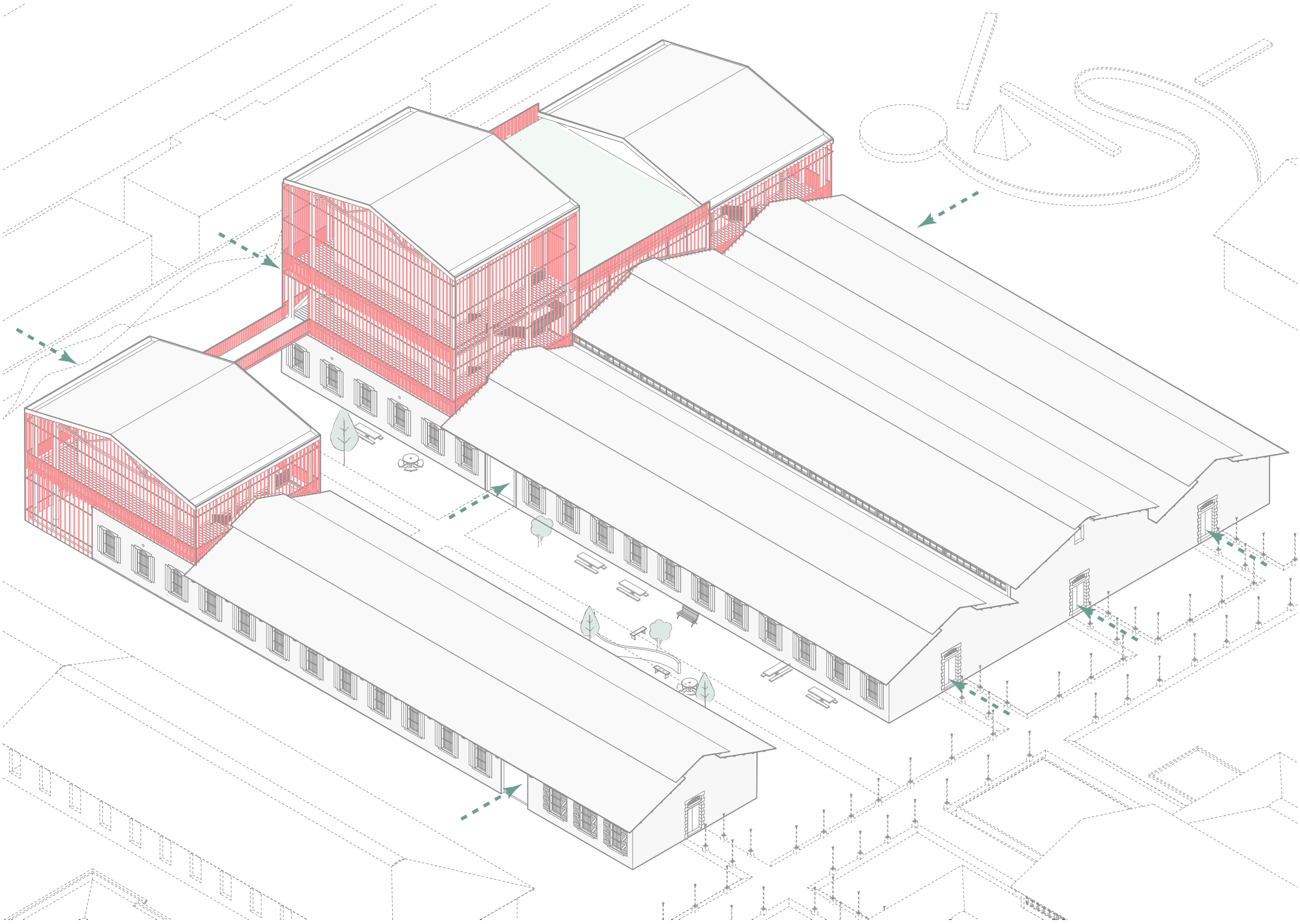


View | Icon | Materiality

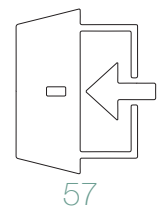






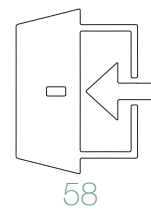


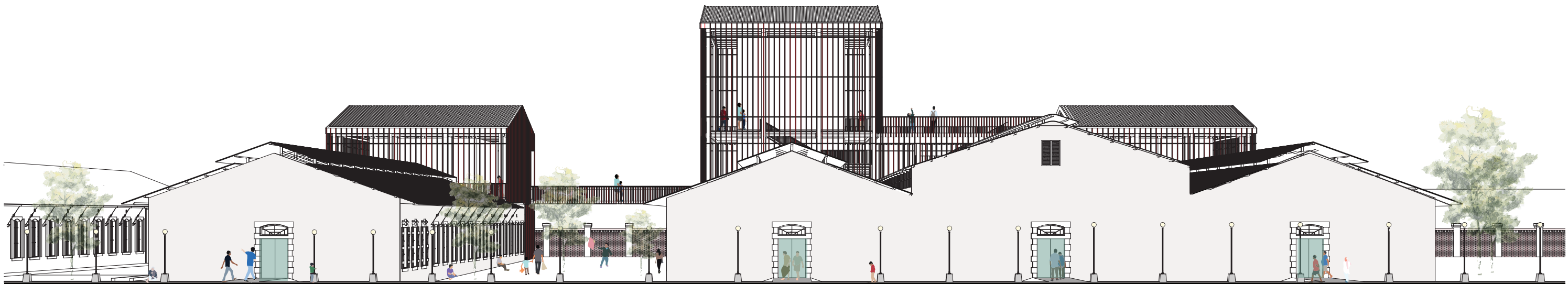
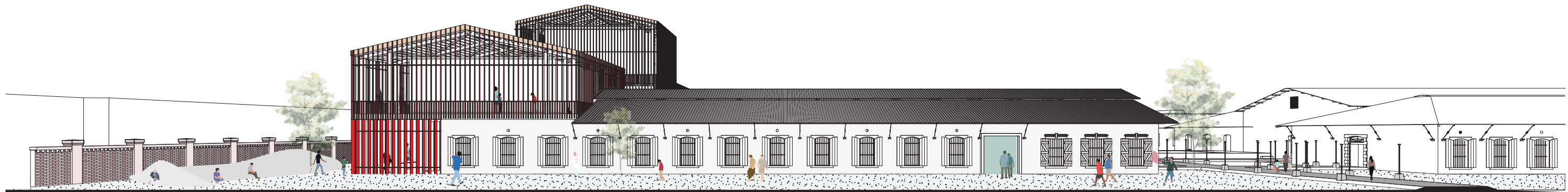
Entrance



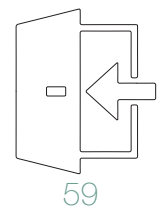


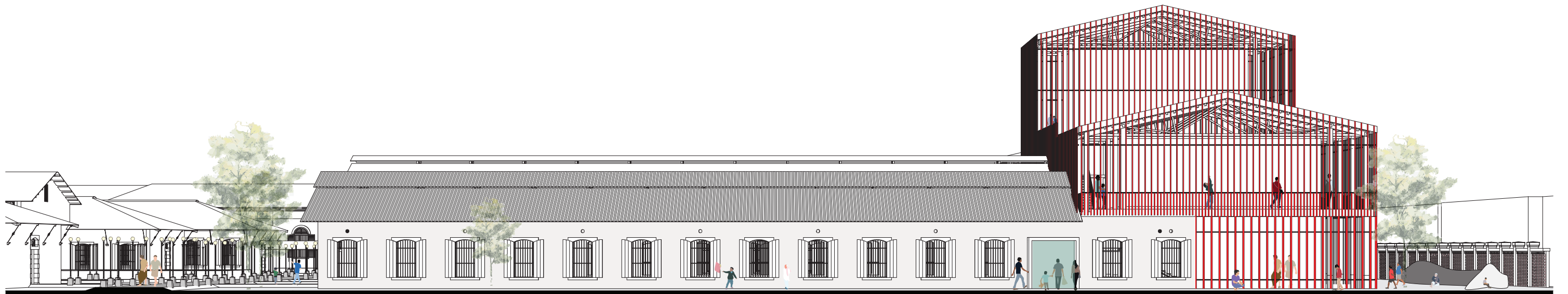
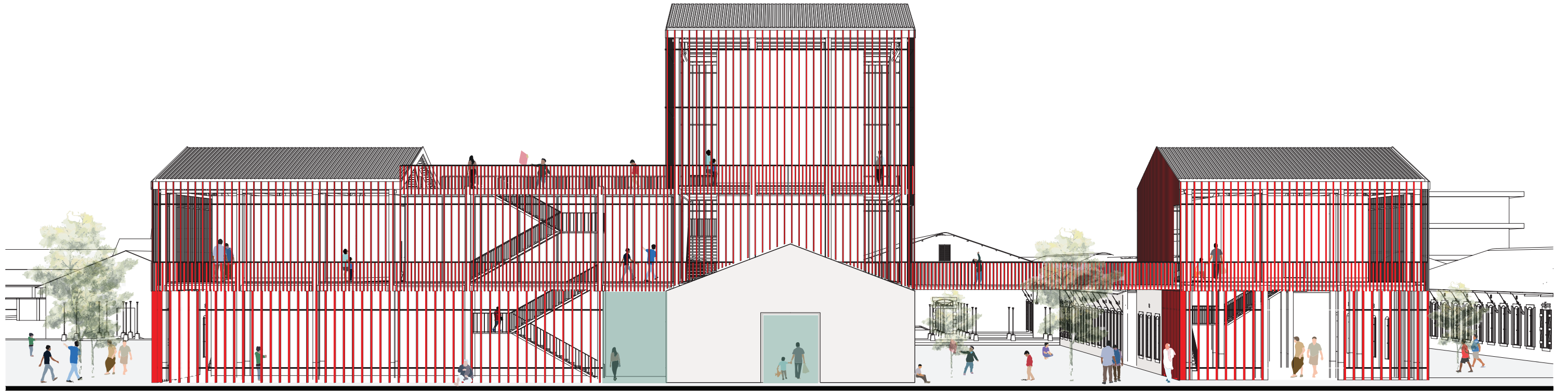
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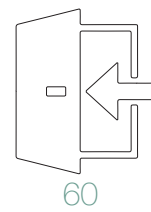


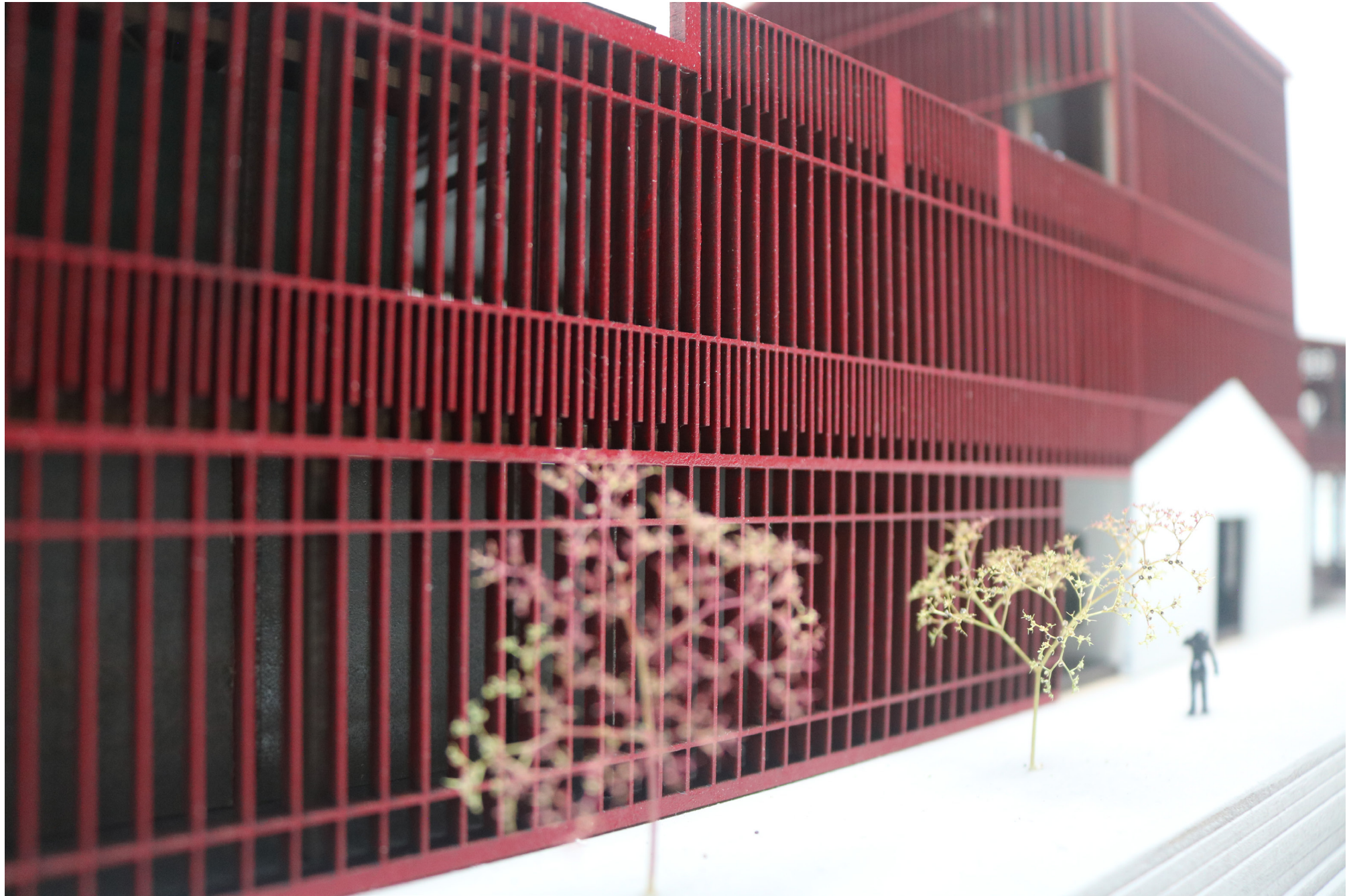
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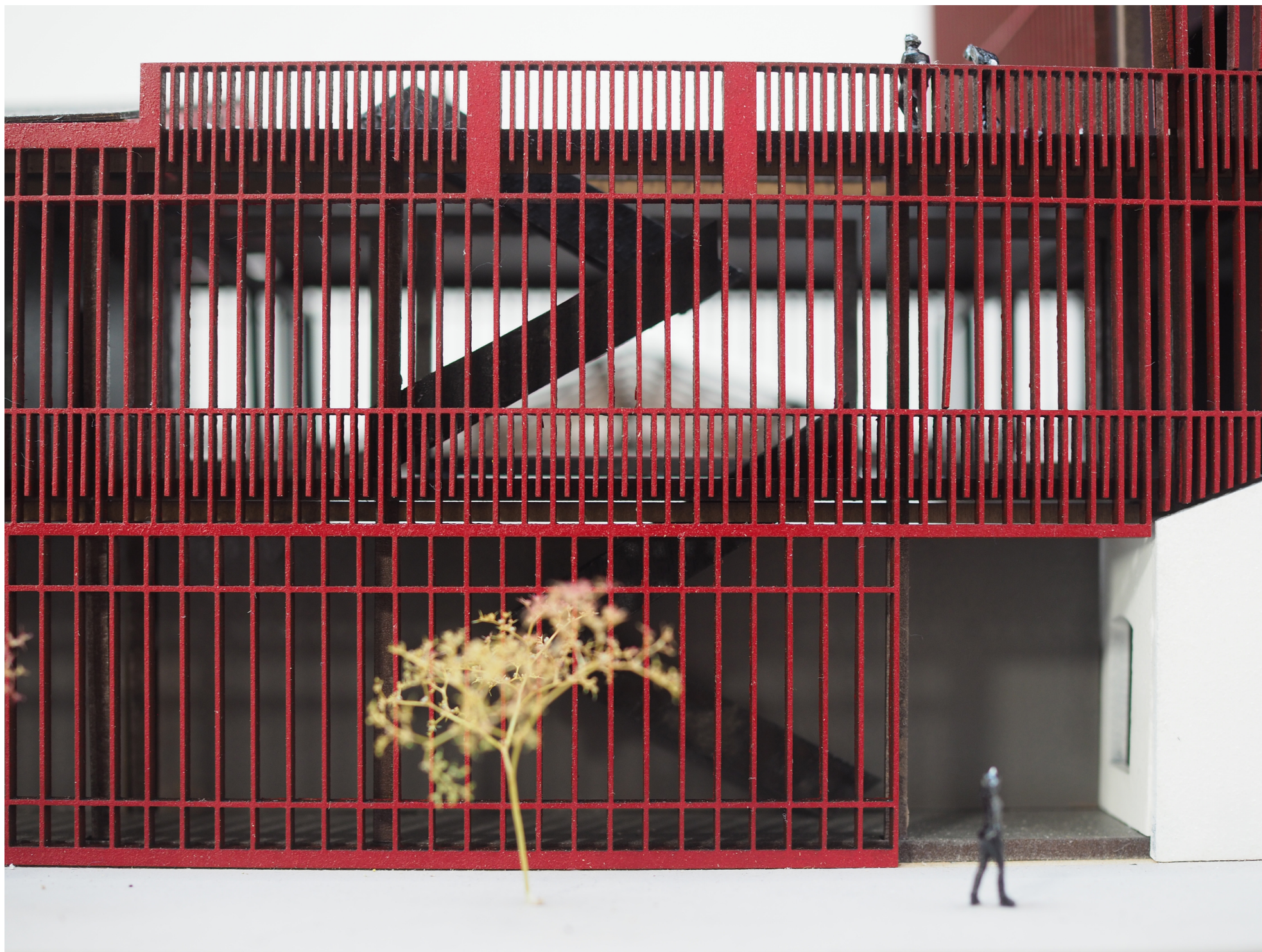


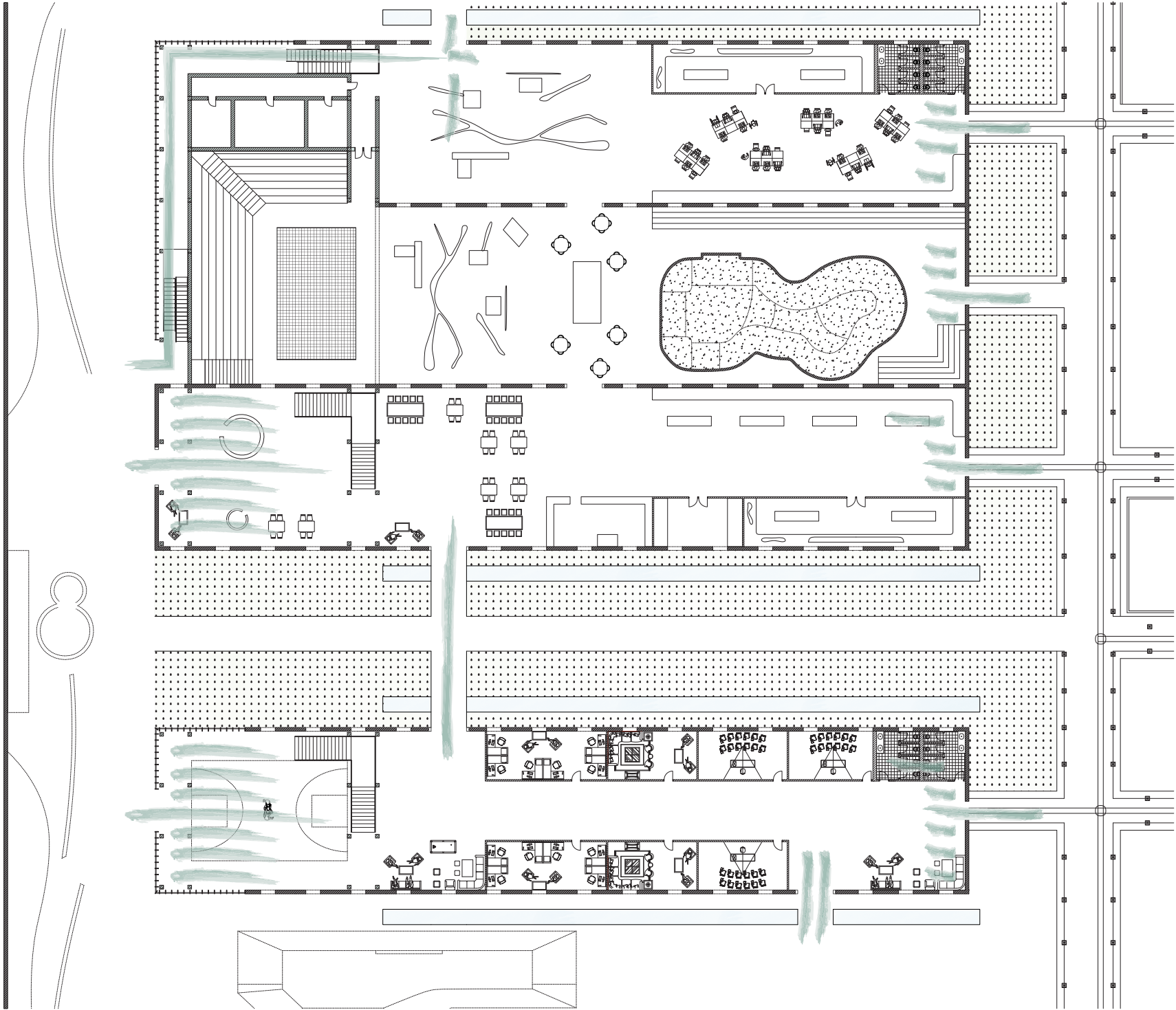


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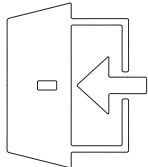


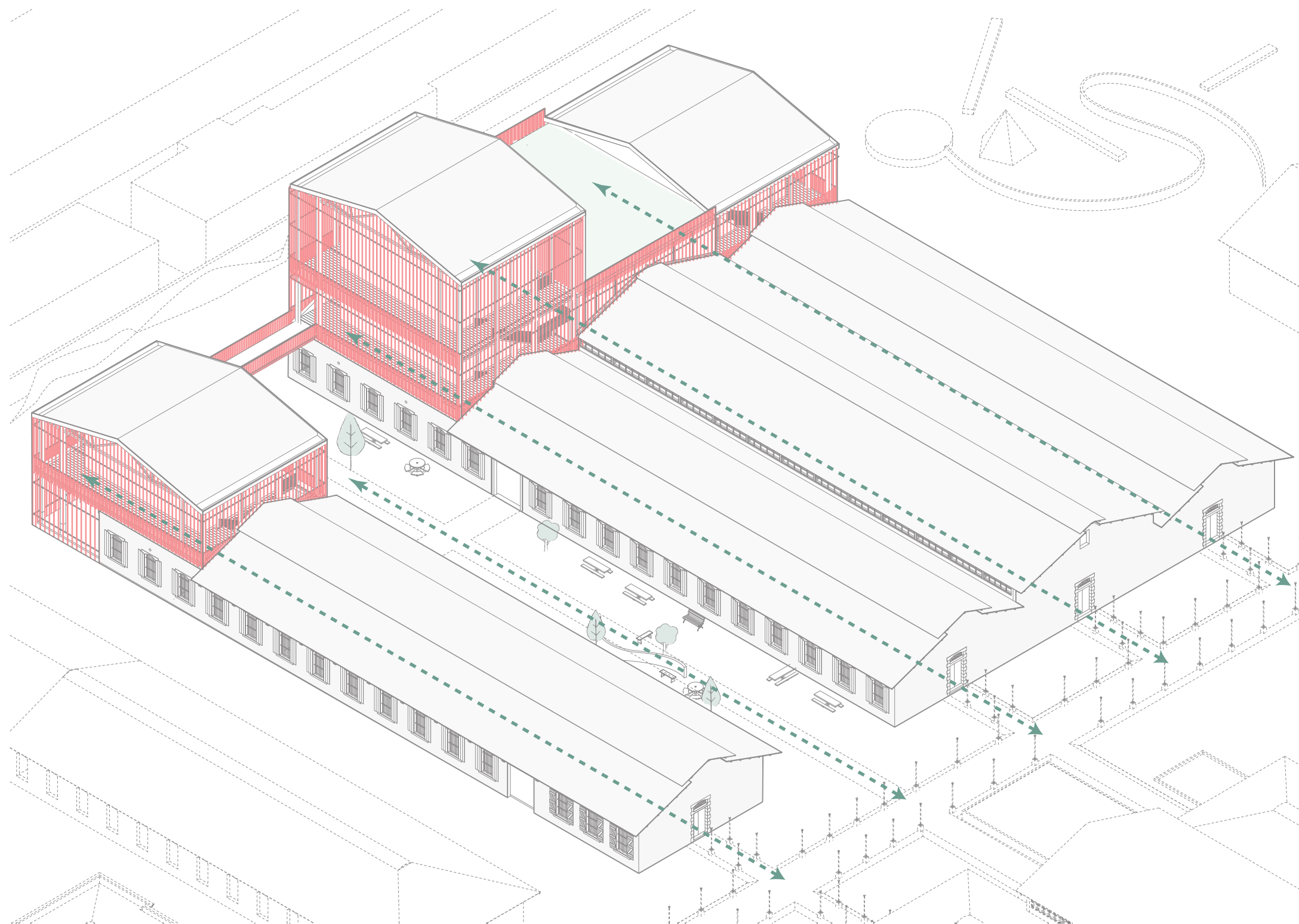




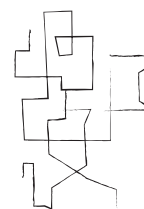


Entrance



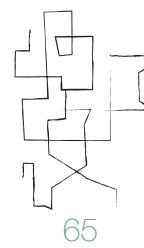


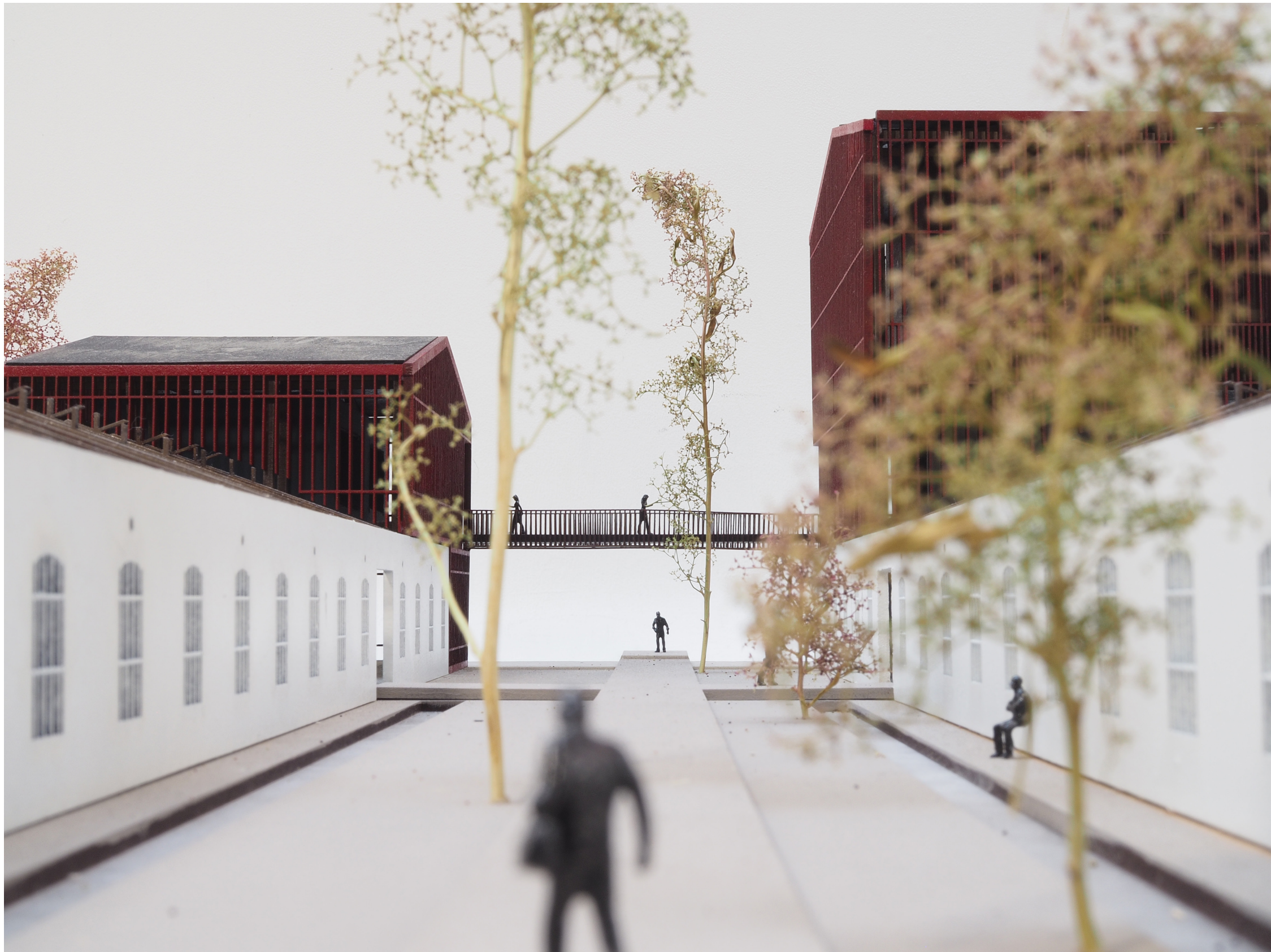
Axis | Street formation | Typology



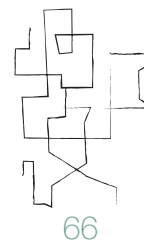


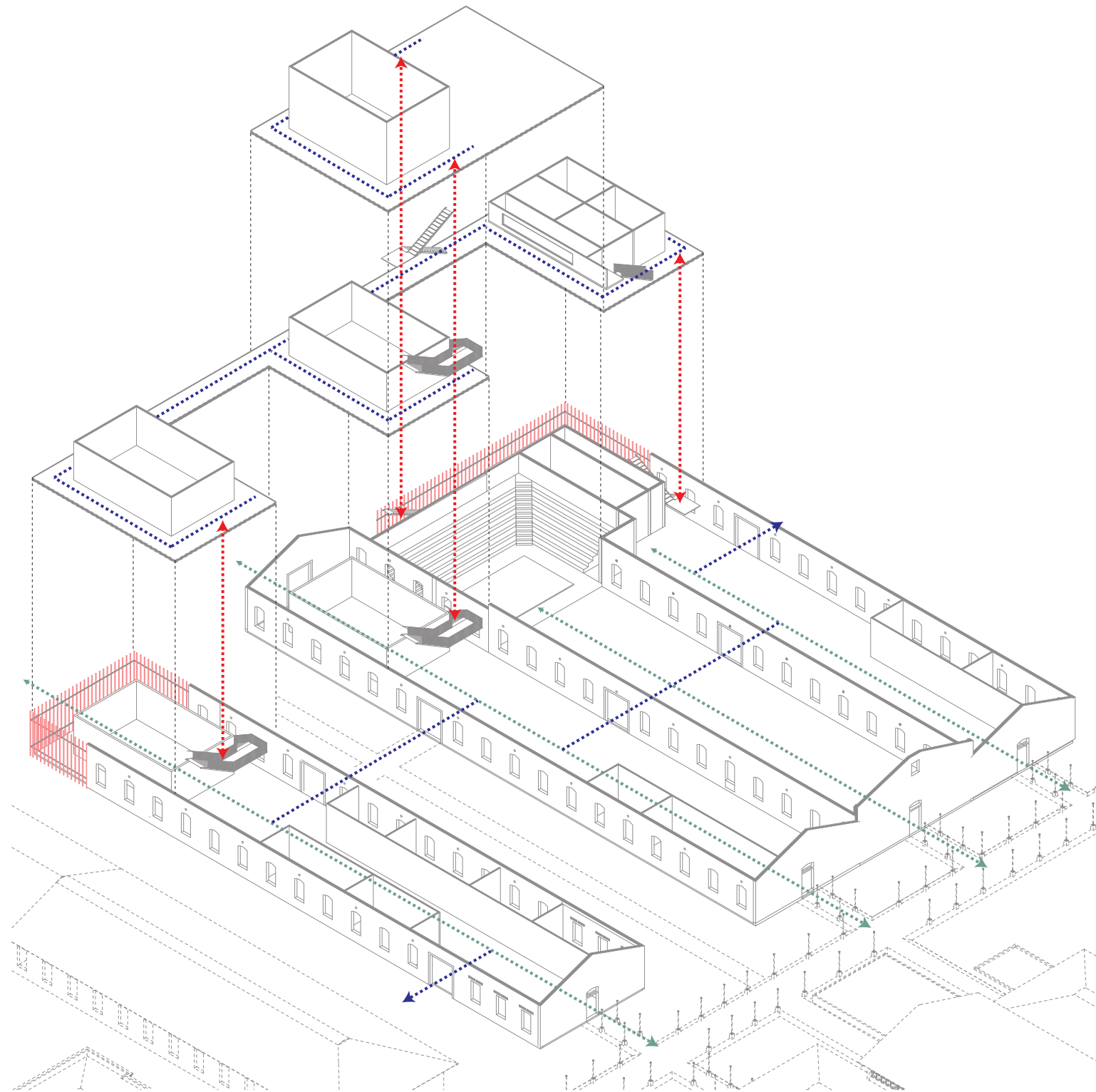
Axis | Street formation | Typology



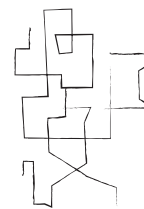


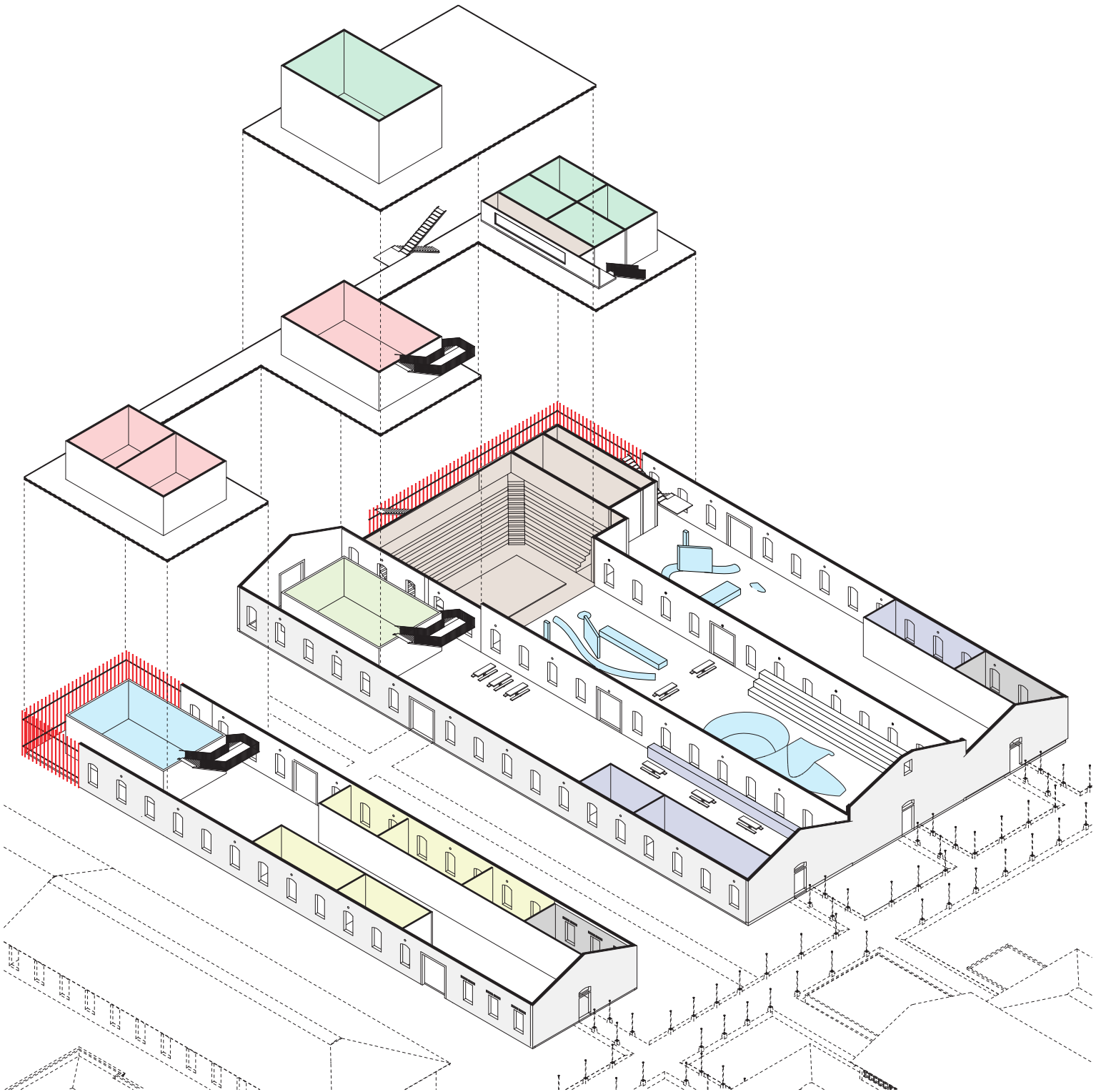
Axis | Street formation | Typology





Axis | Street formation | Typology

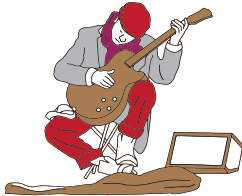




Mix Use | Program



- Dance studios
- Theater



- Music hall / recording room
- Theater

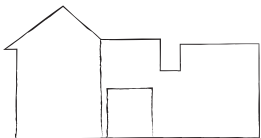


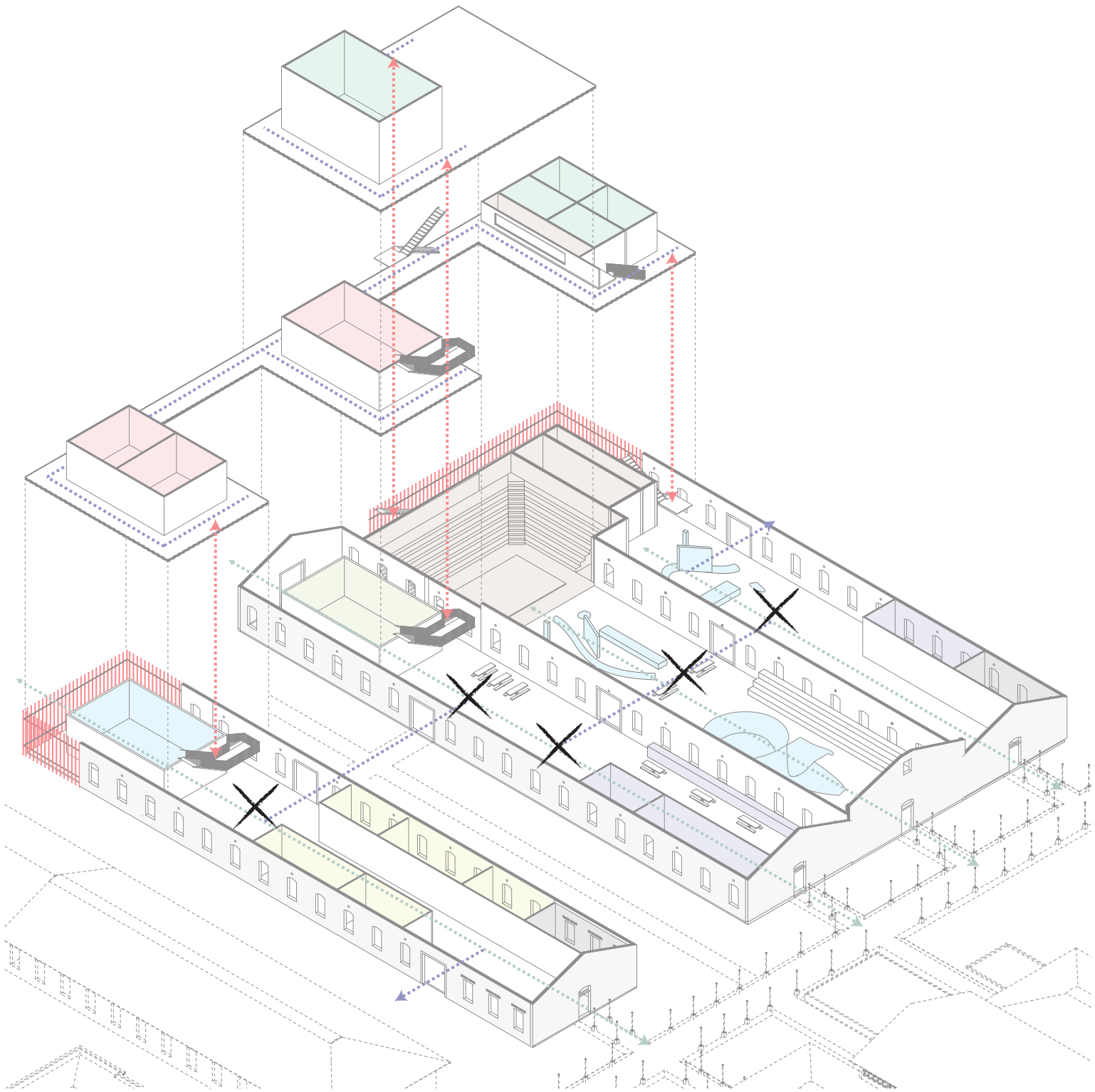
- Sports facilities



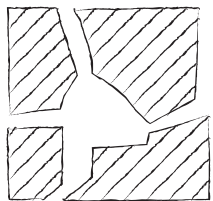
- Workshops
- Flexible rooms

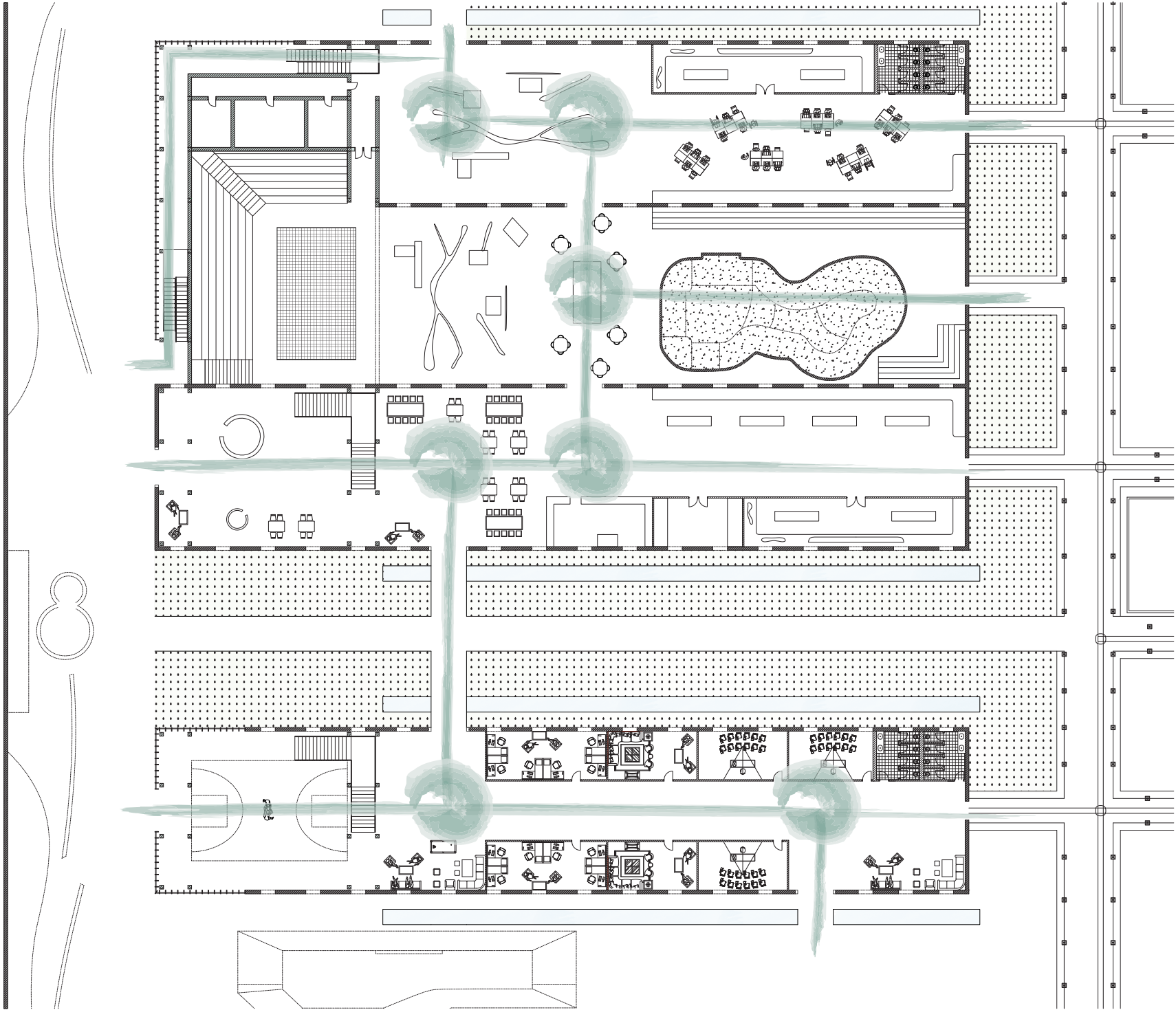
- Lobby



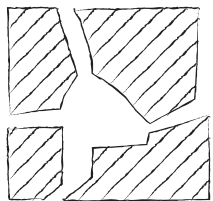


Meeting Points



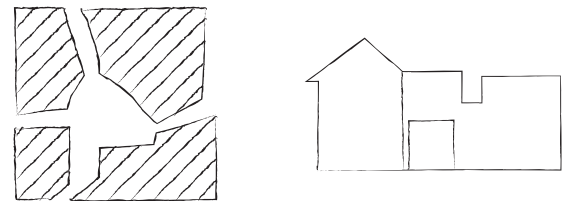


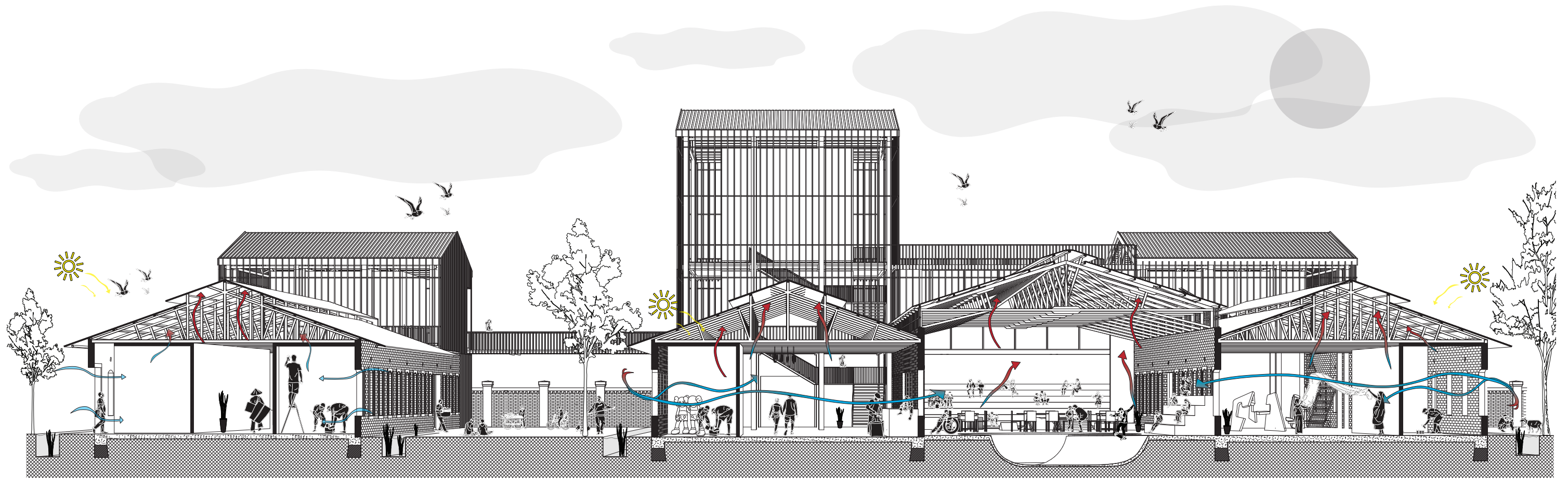
Meeting Points





Meeting Points | Program 1:200





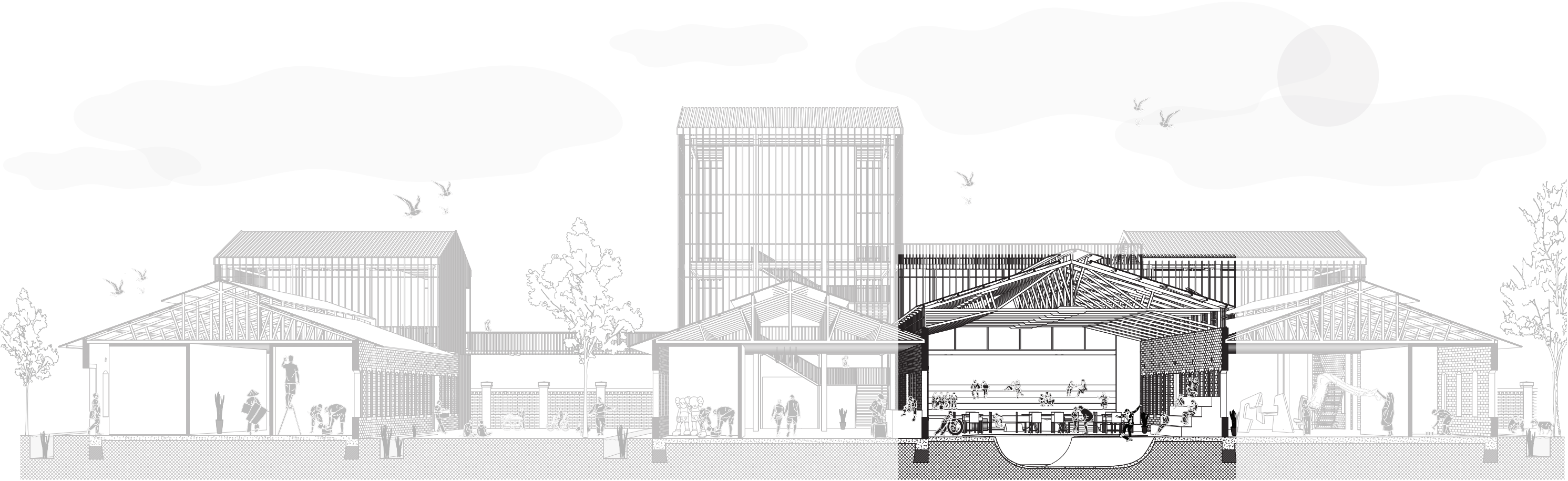
Climate Concept

- Solar panel
- Cross ventilate



Climate Concept

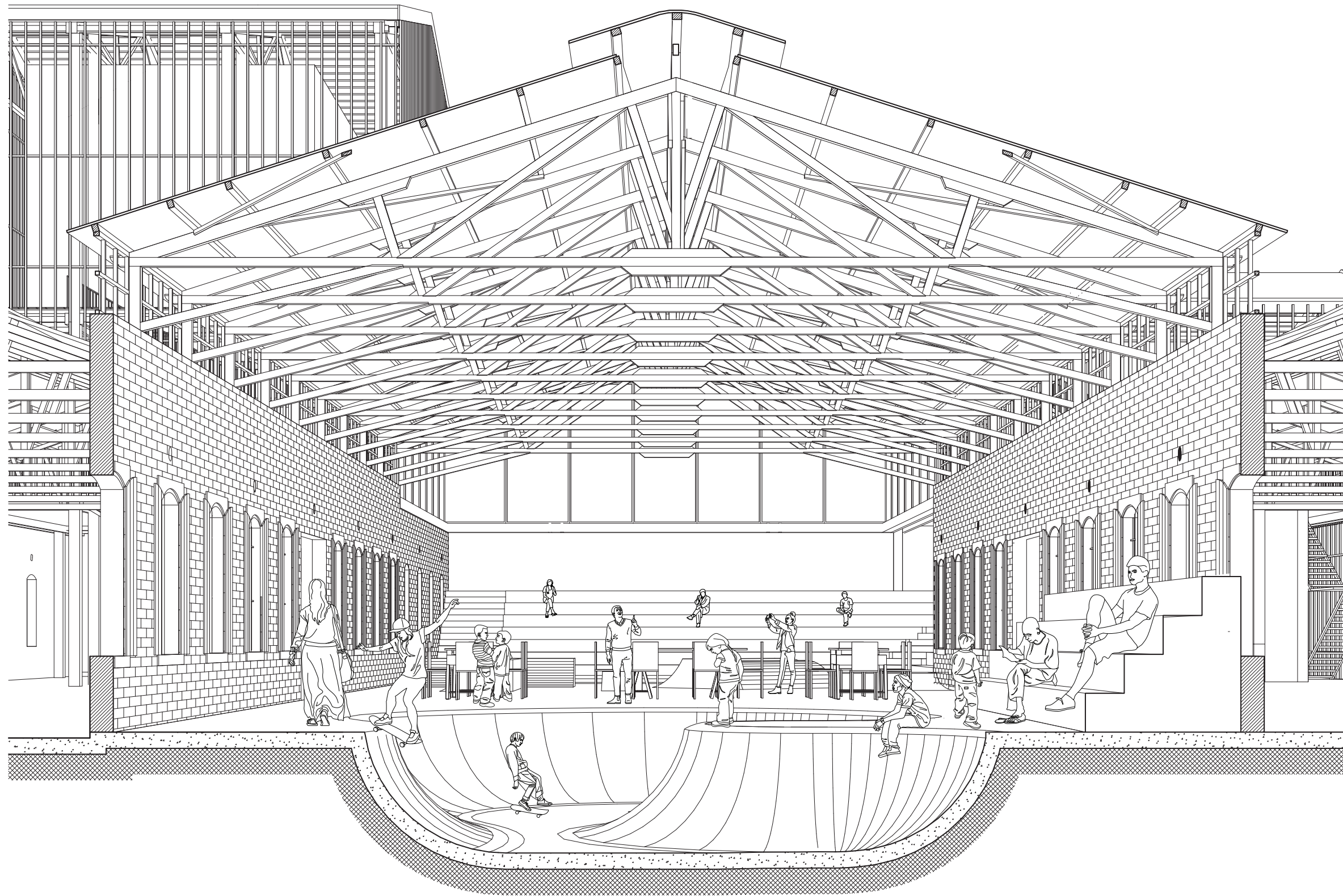
- Water storage
- Green area



Connections

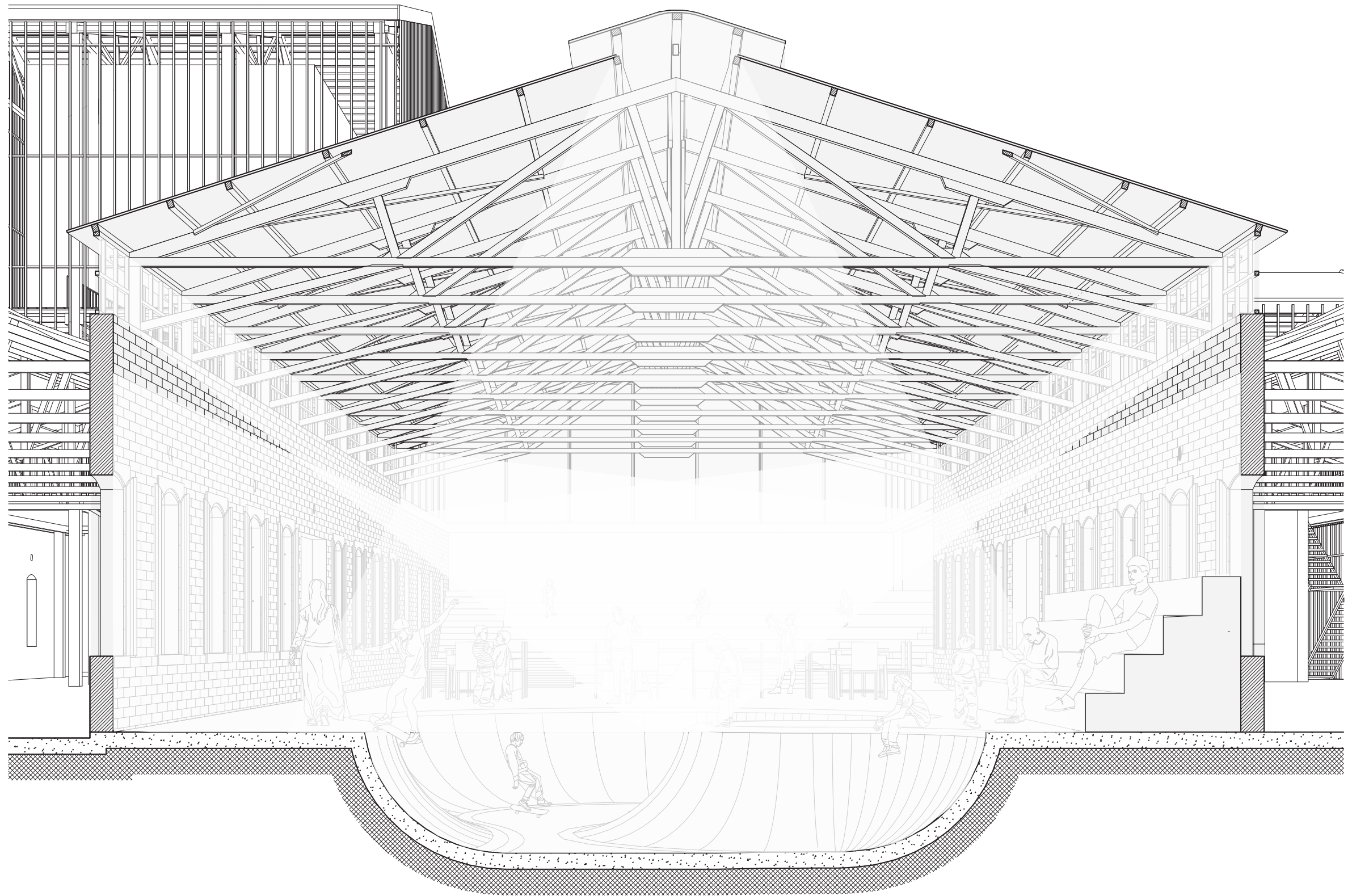






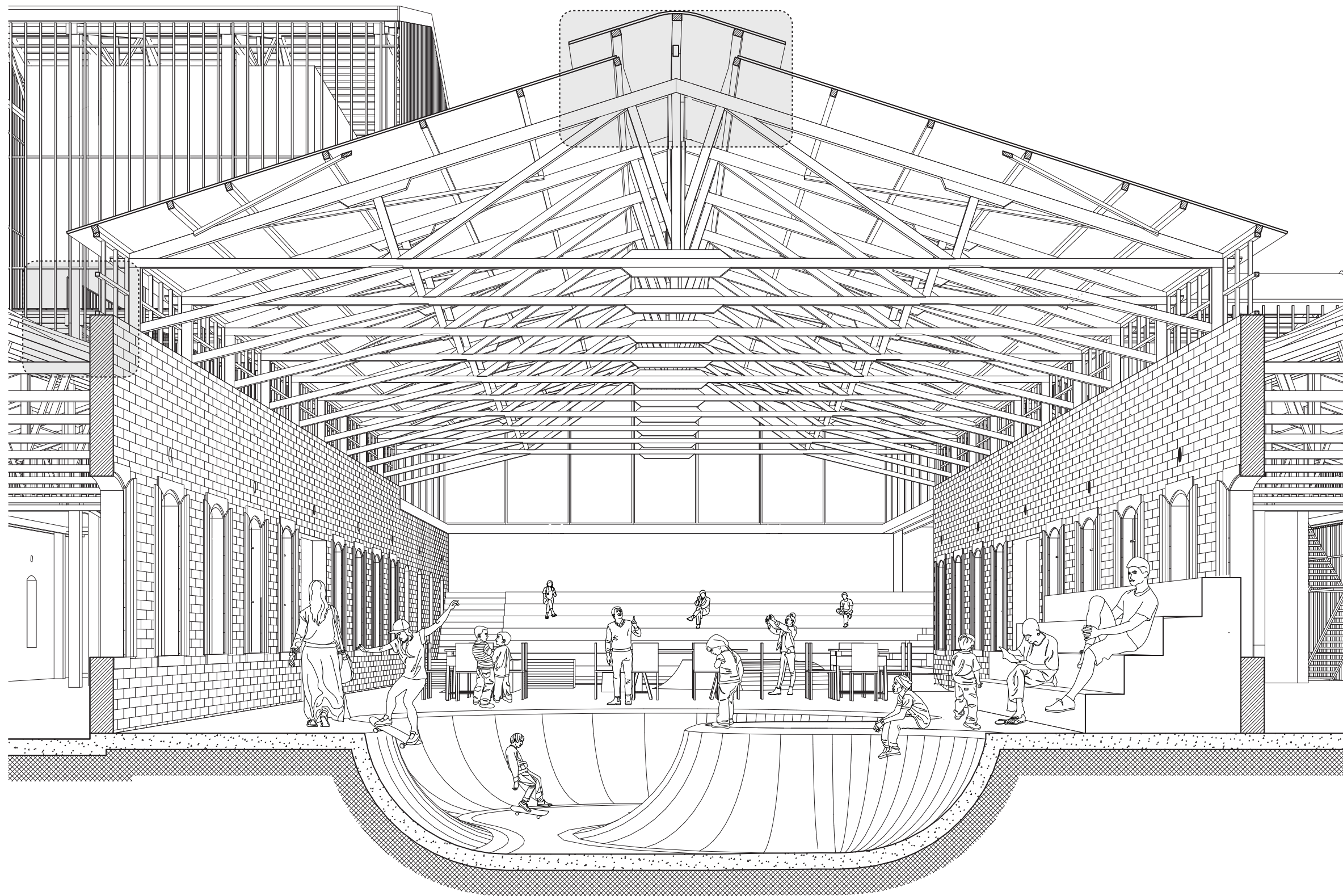
Skate-bowl / Meeting point / Theater

- Enhancing the timber structure
- Connection to trolley track



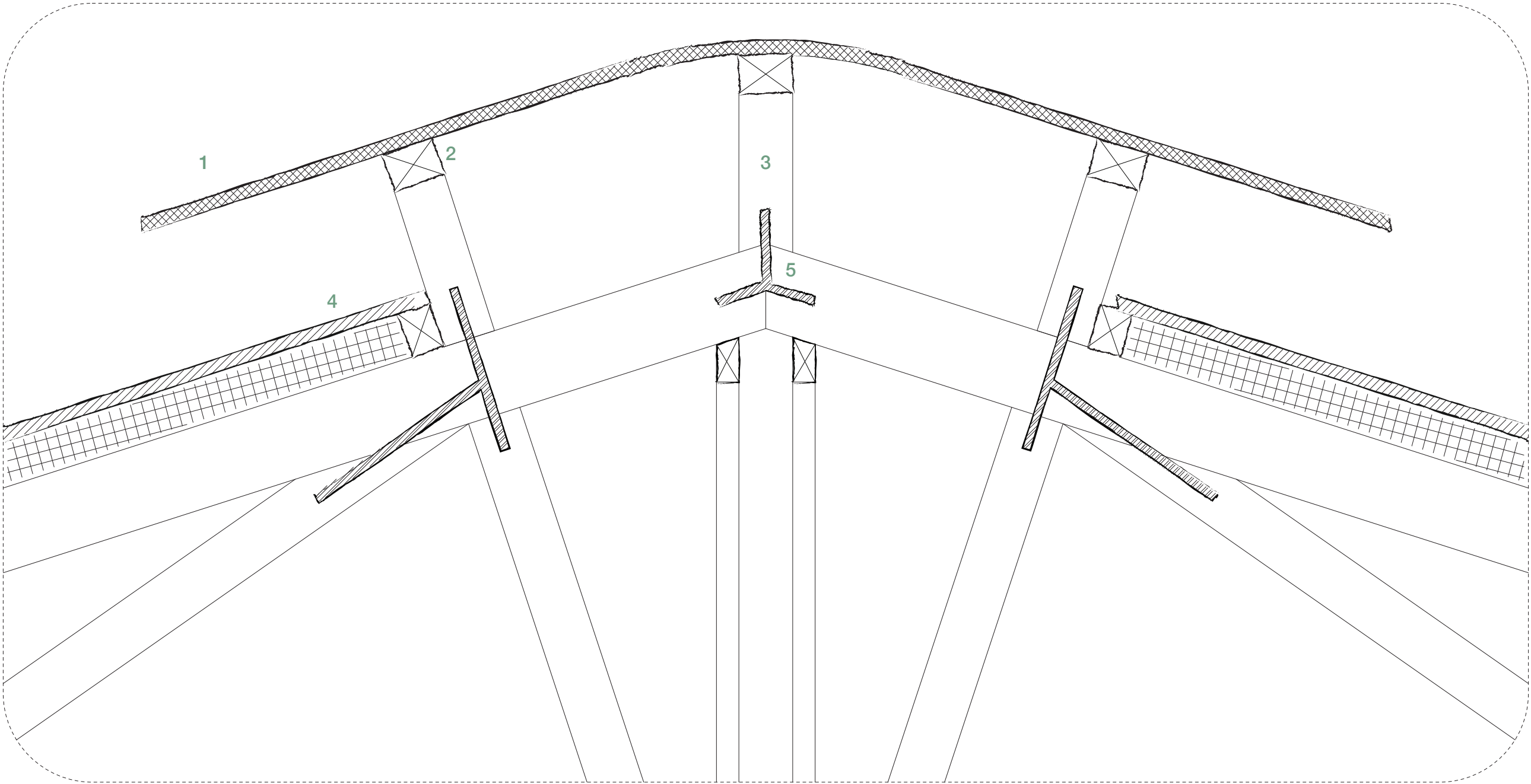
Skate-bowl / Meeting point / Theater

- Natural light



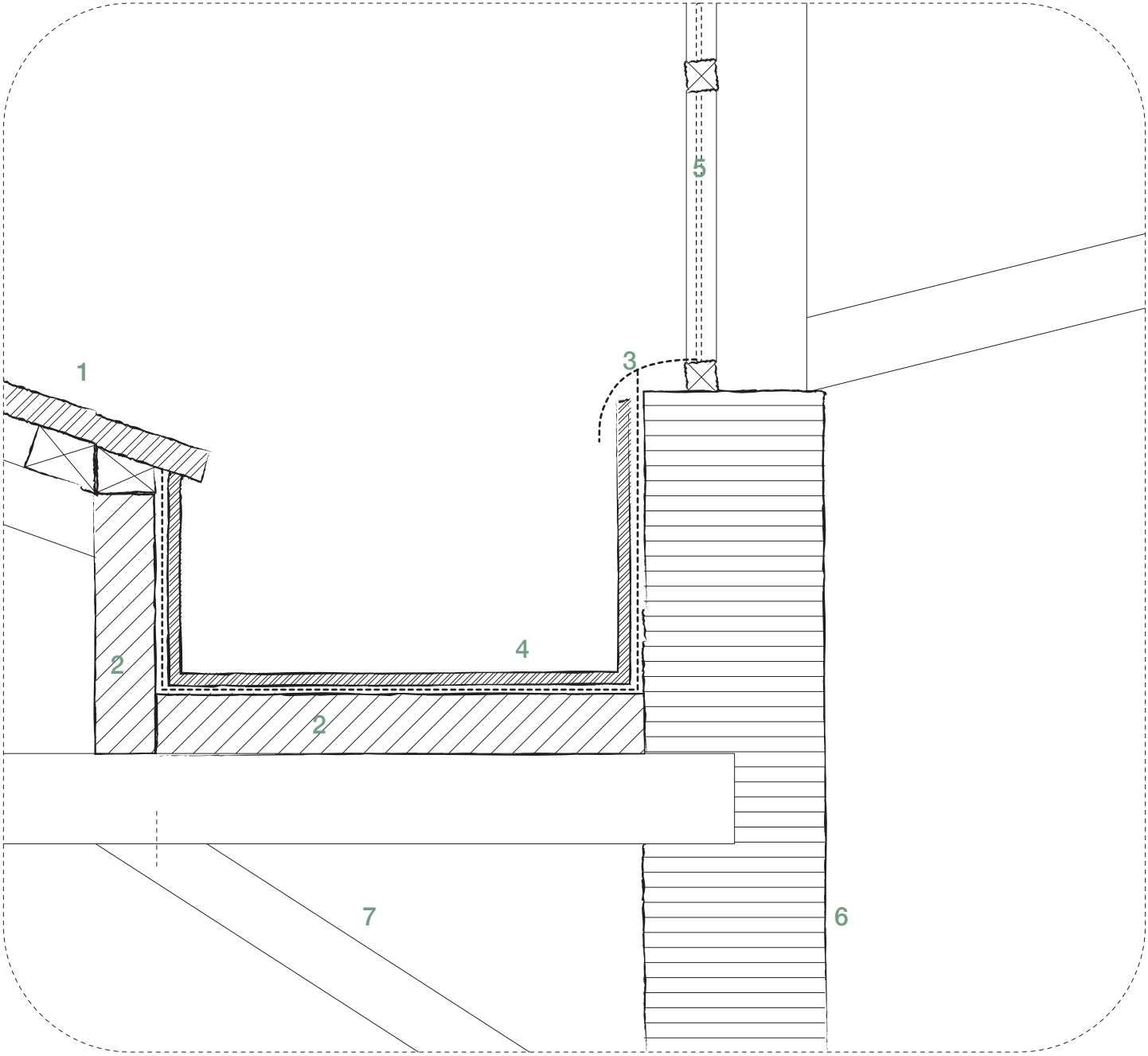
Skate-bowl / Meeting point / Theater

- Problems with existing Structure



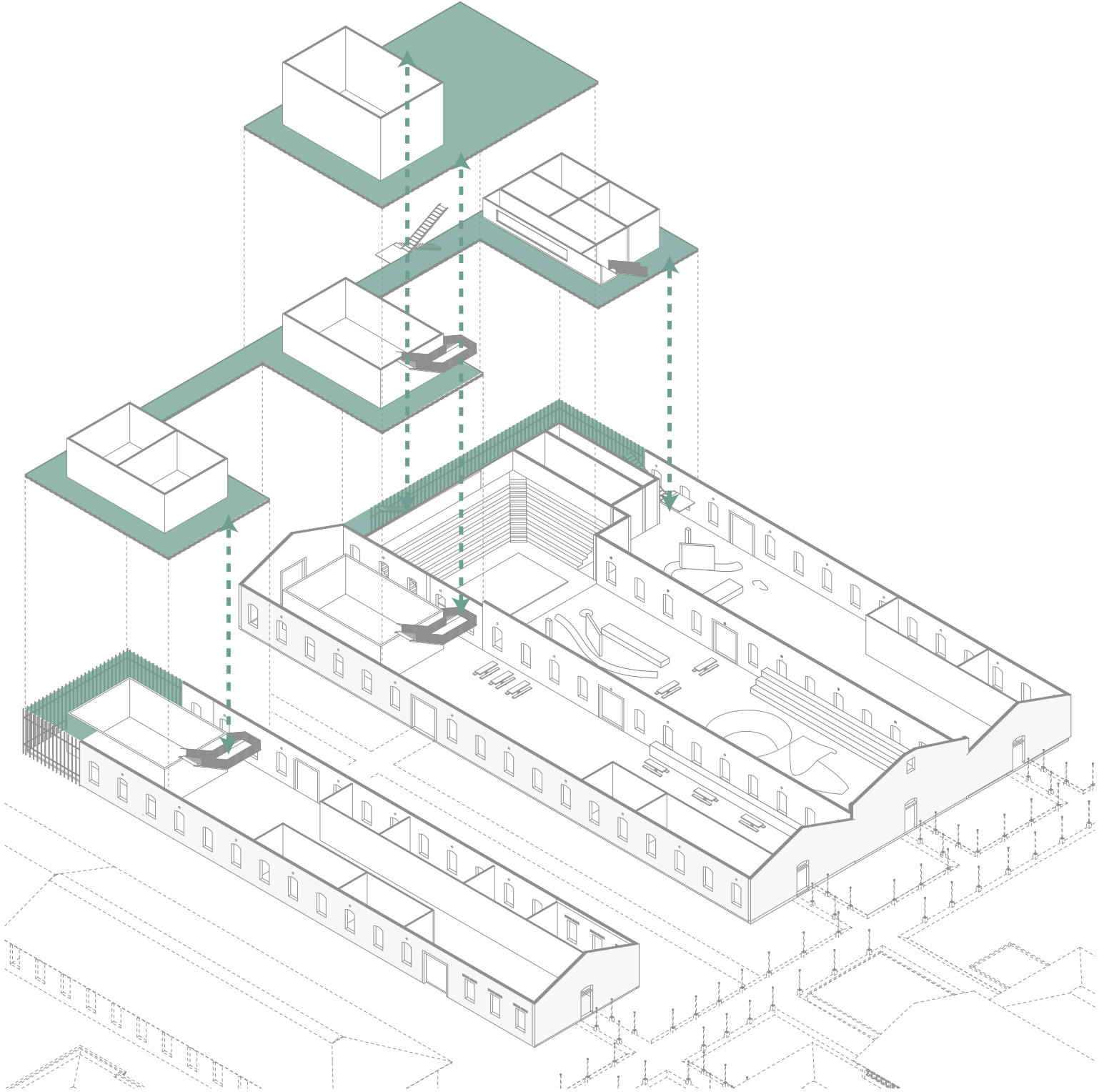
01: Clear Plastic Corrugated Roofing Sheet 02: Roof Battens 03: Timber 04: Corrugated Steel 05: Steel Gusset 06: Acoustic Insulation

Detail - Roof

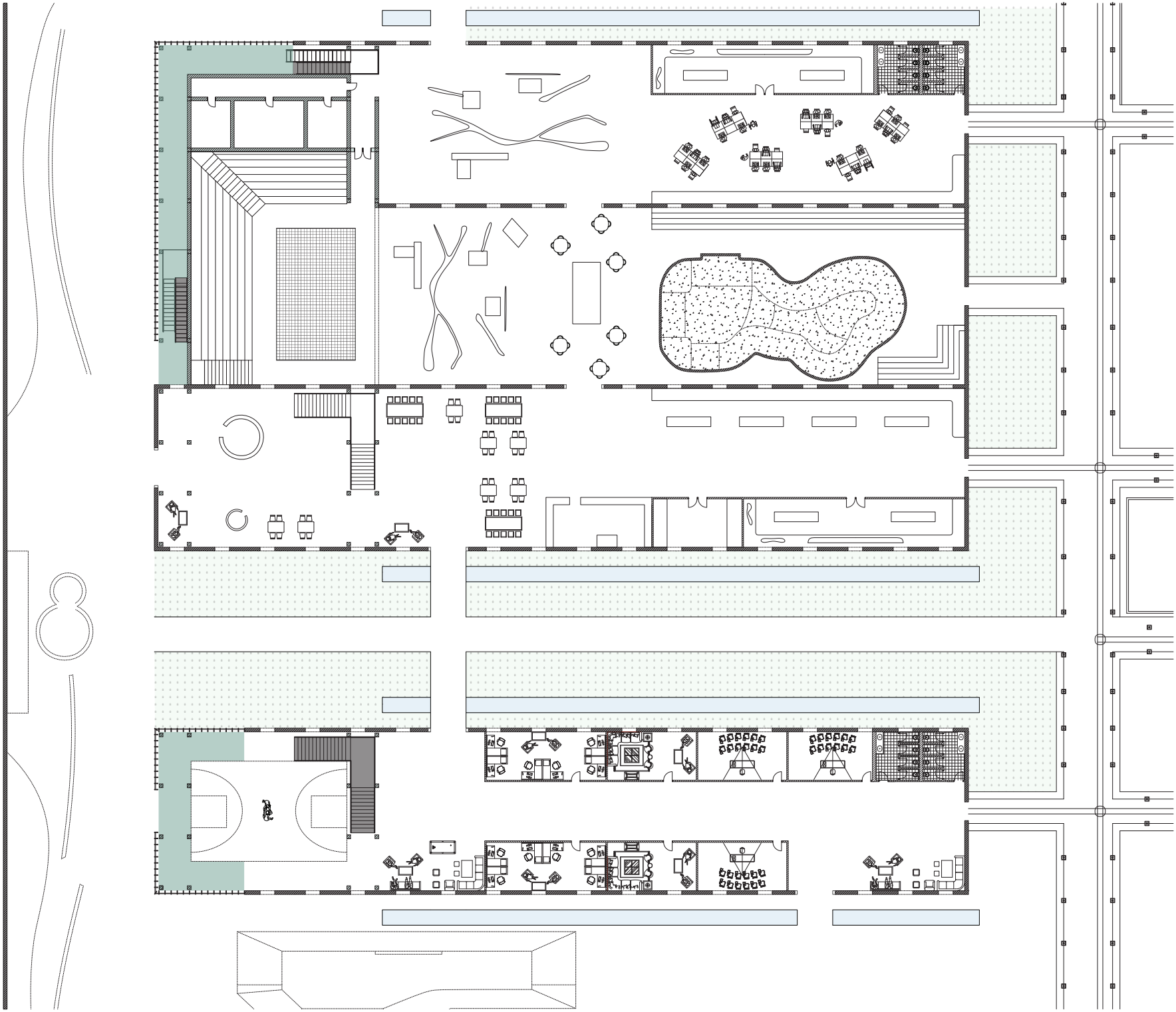


- 01: Corrugated Steel
- 02: Timber
- 03: Waterproof Membrane
- 04: Gutter
- 05: Window
- 06: Brick Wall
- 07: Timber support

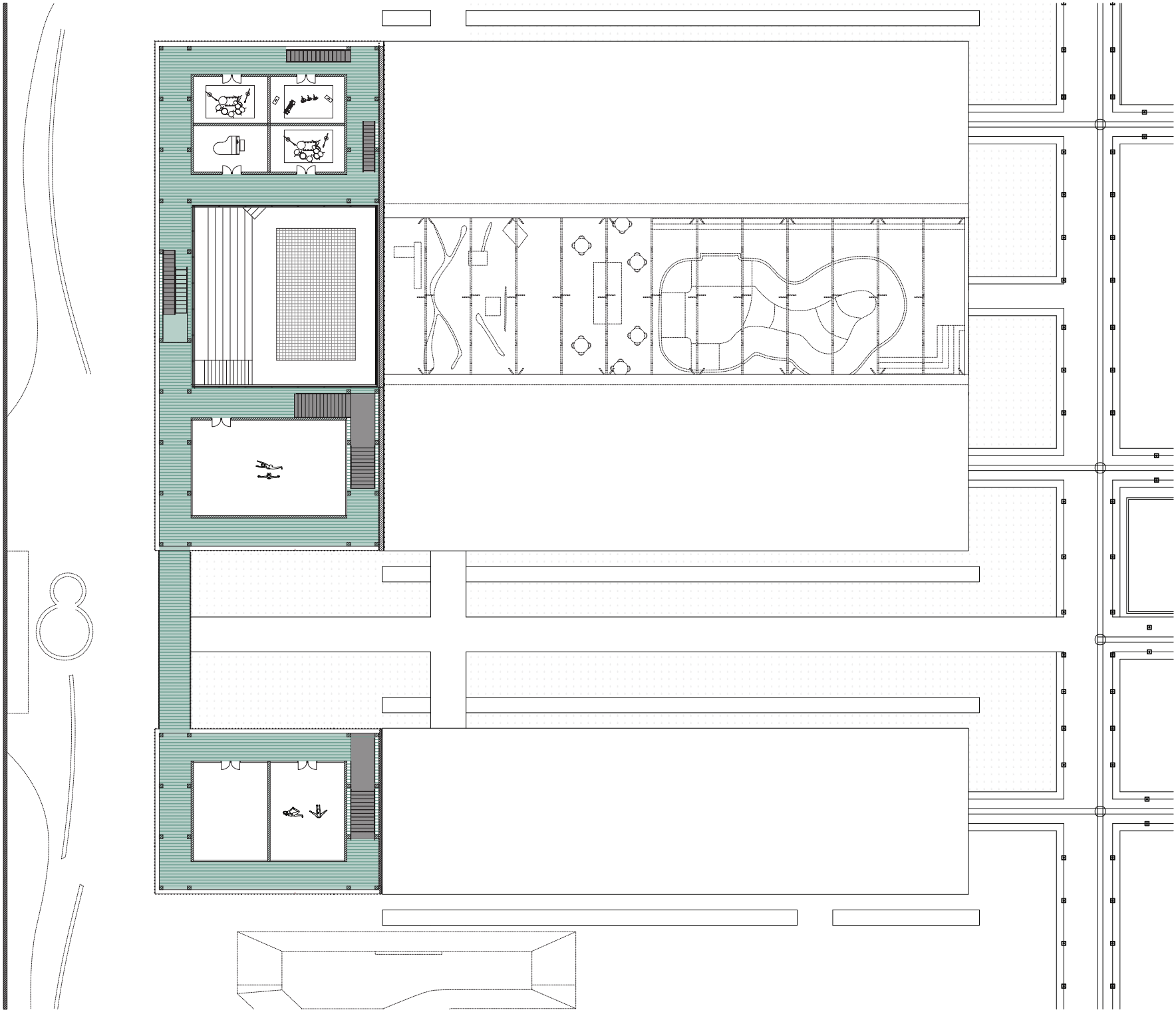
Detail - Gutter



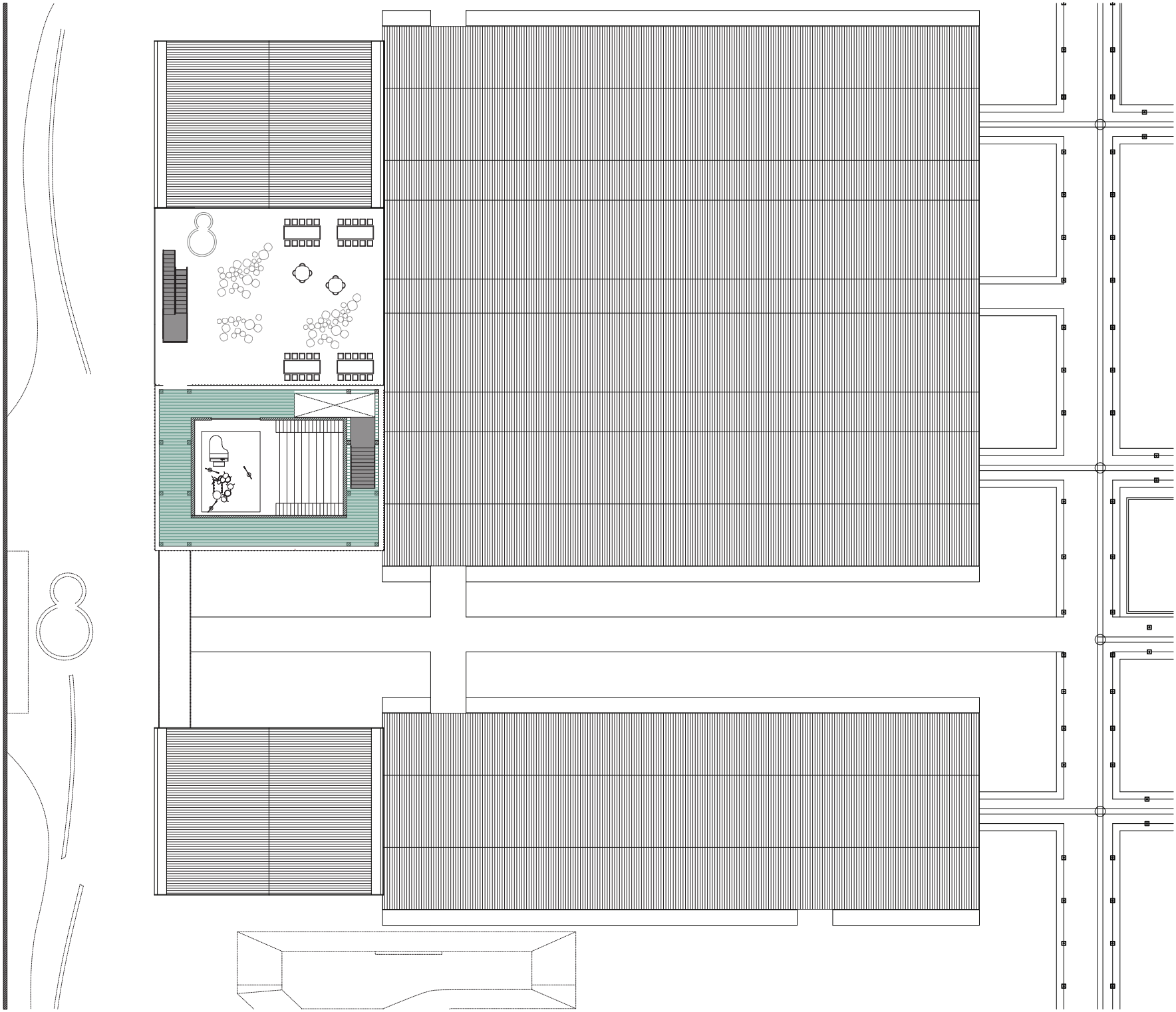
The In-Between zone - Circulation



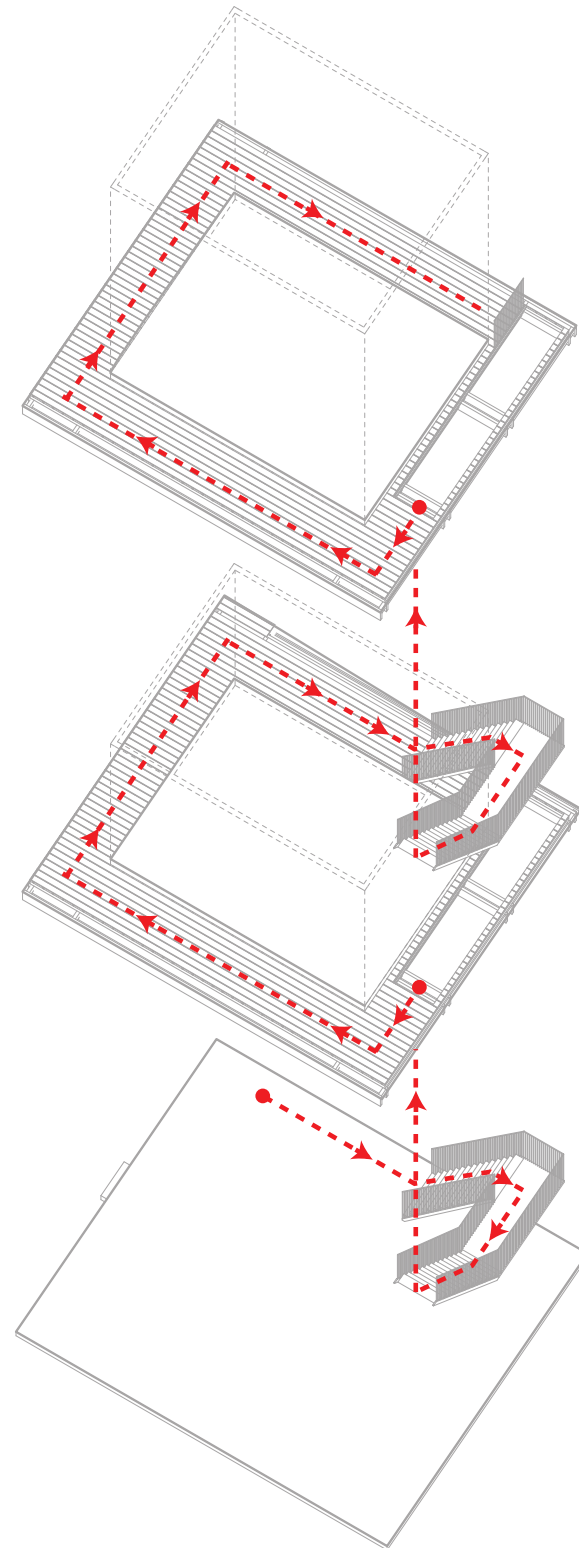
The In-Between zone - Circulation



The In-Between zone - Circulation



The In-Between zone - Circulation



The In-Between zone - Concept



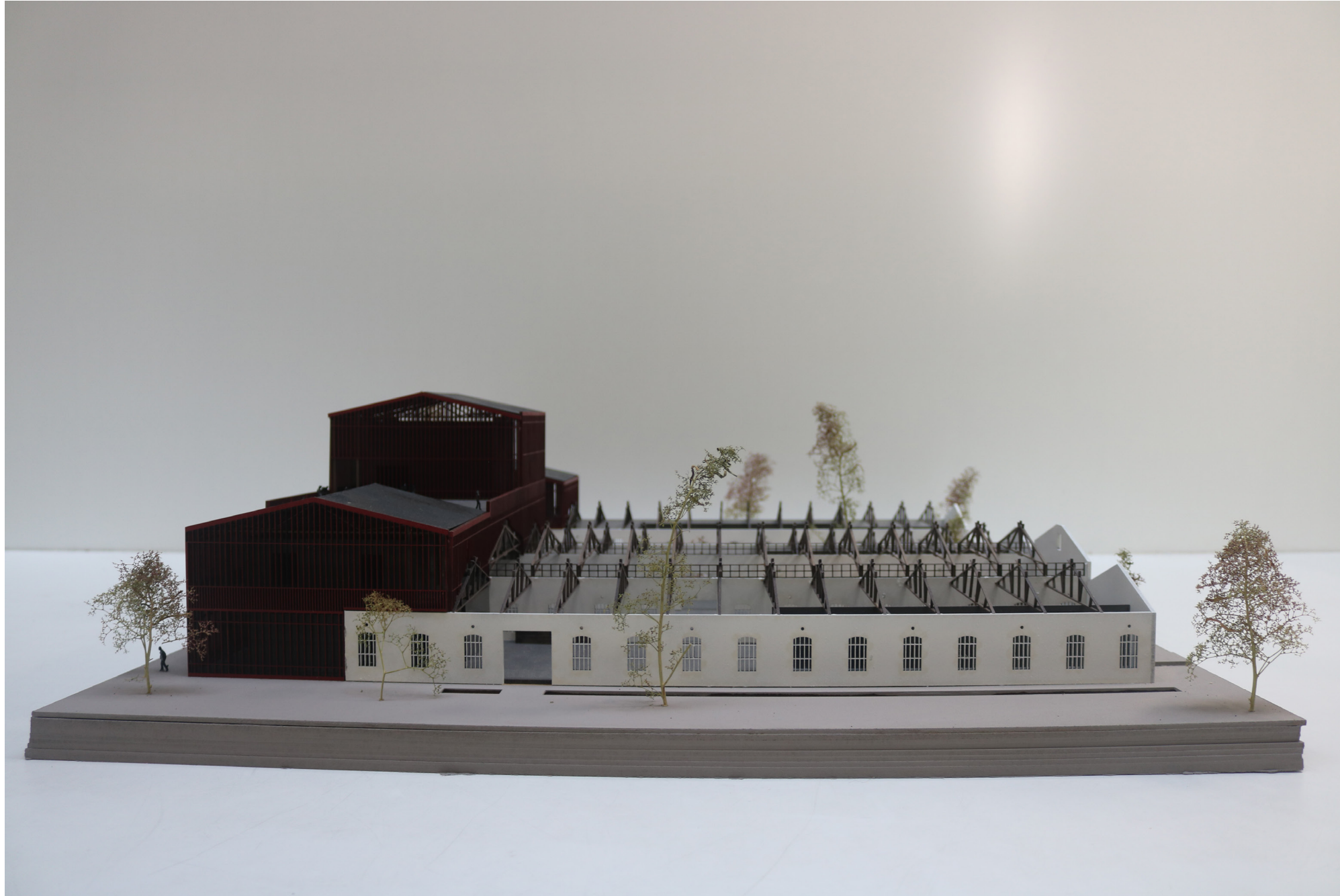
The In-Between zone - Materiality



The In-Between zone



The In-Between zone



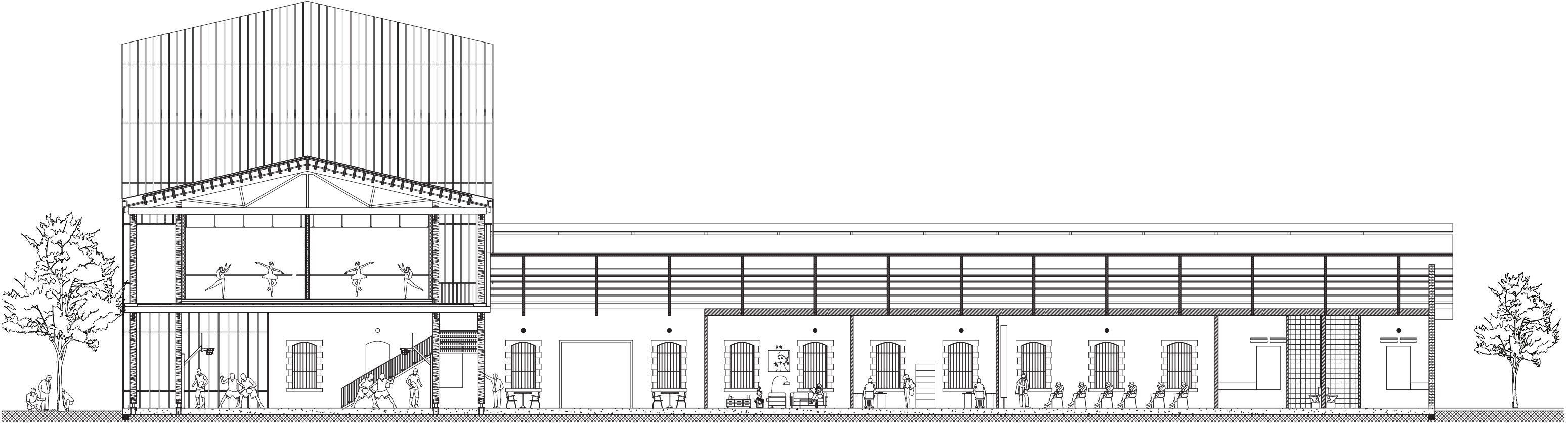
Connection between In-Between and program



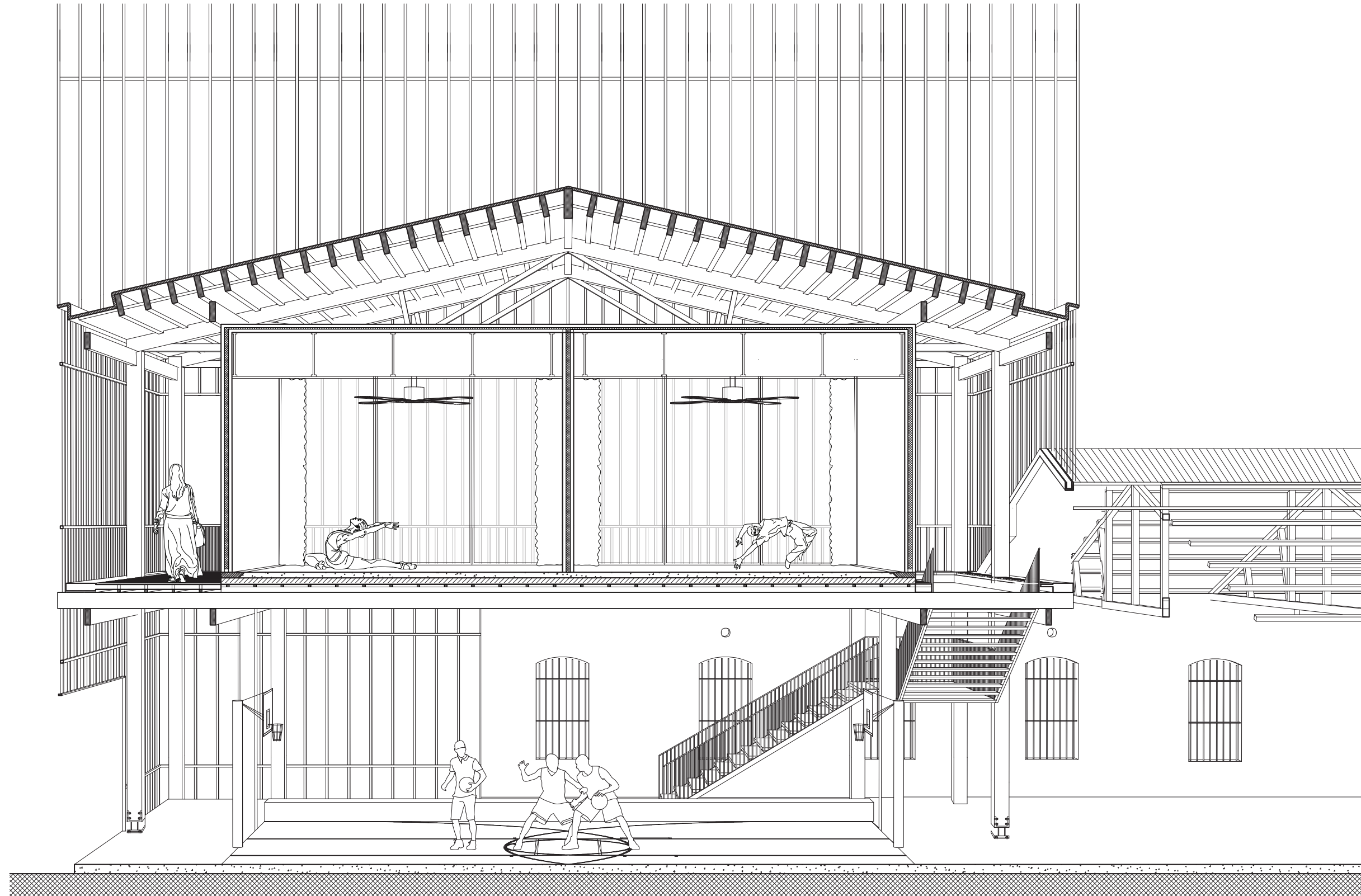
Connection between In-Between and program



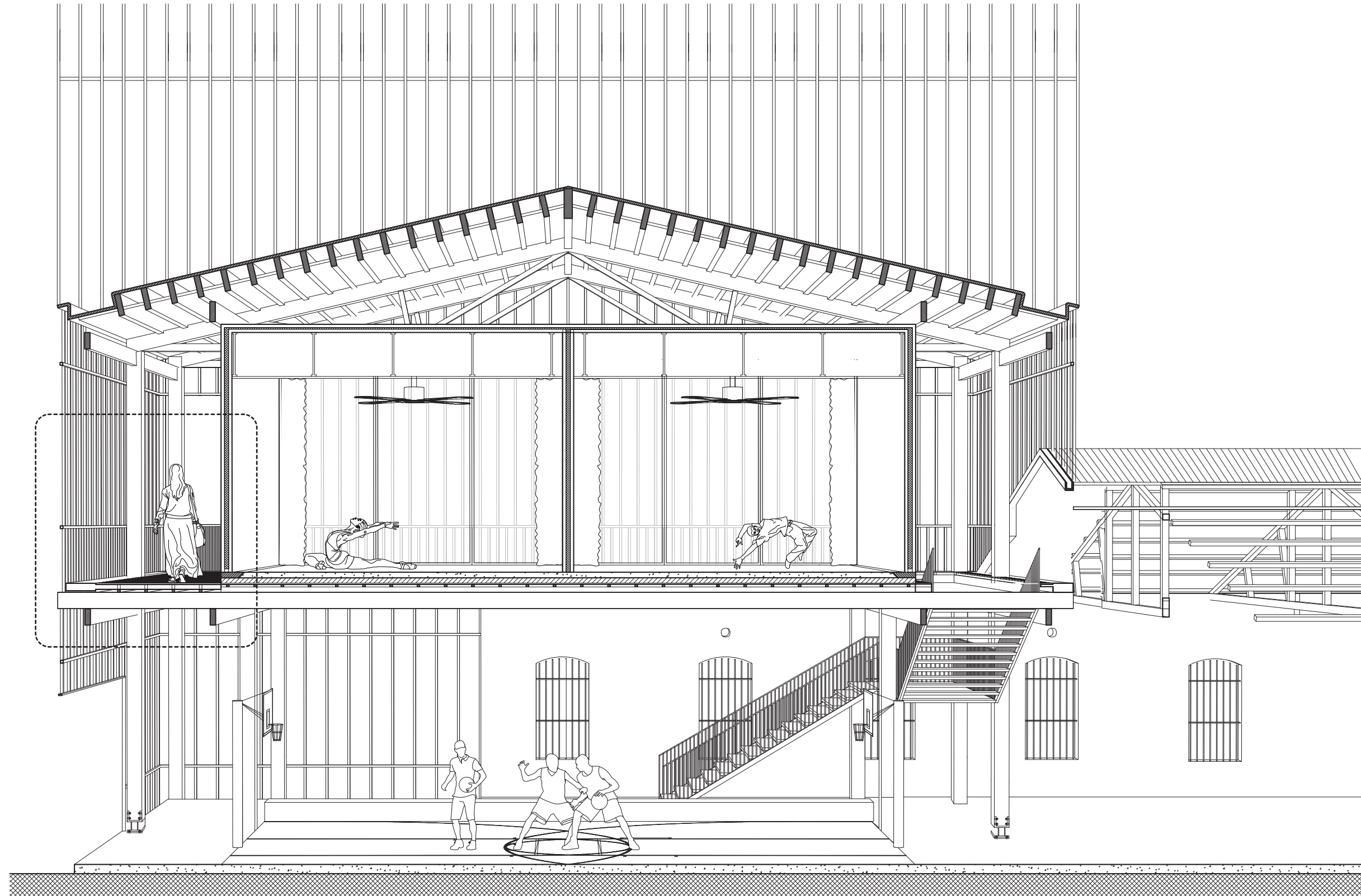
Connection between In-Between and program



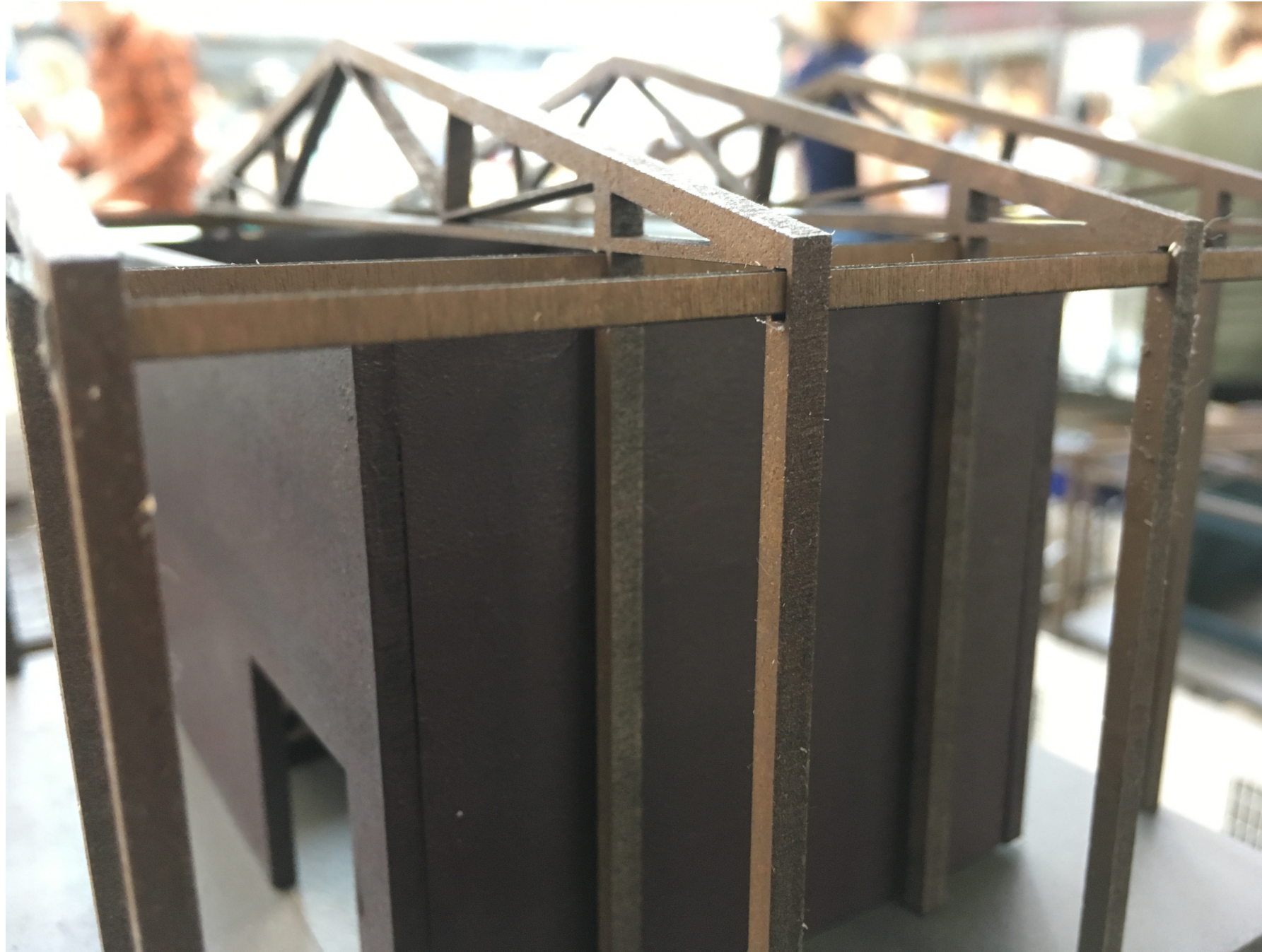
Connection between In-Between and program



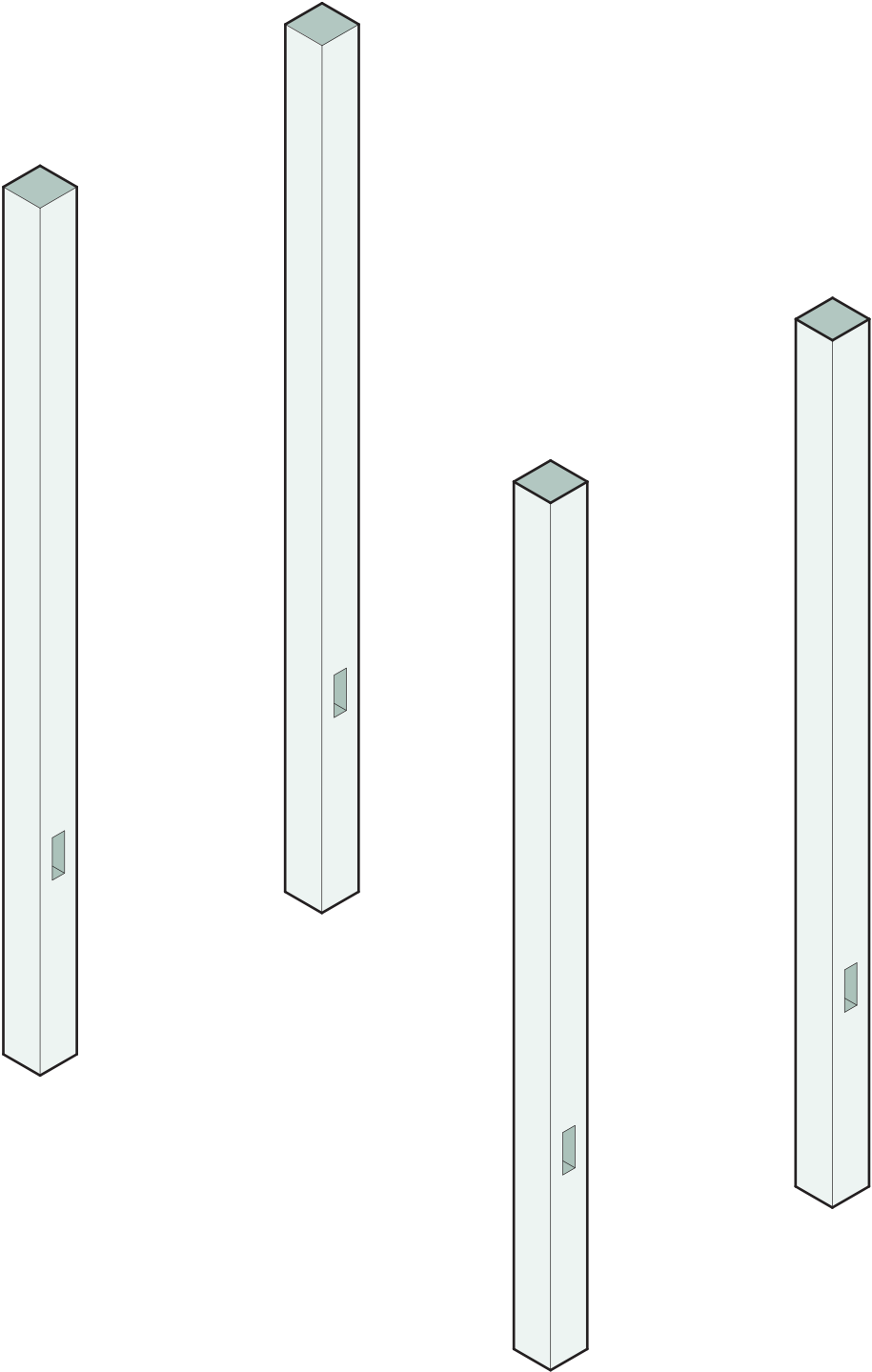
Connection between In-Between and program



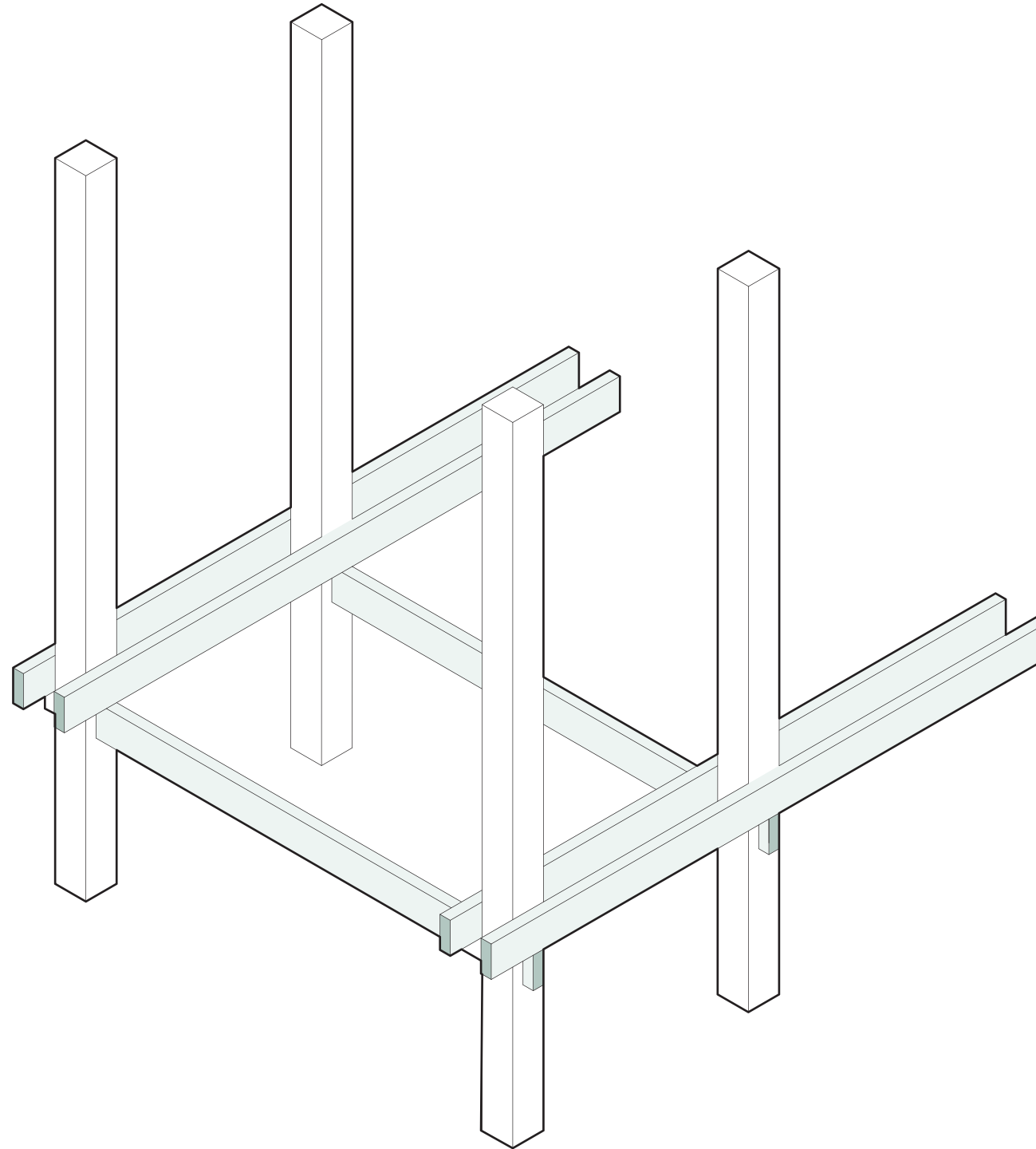
Zooming into intervention structure



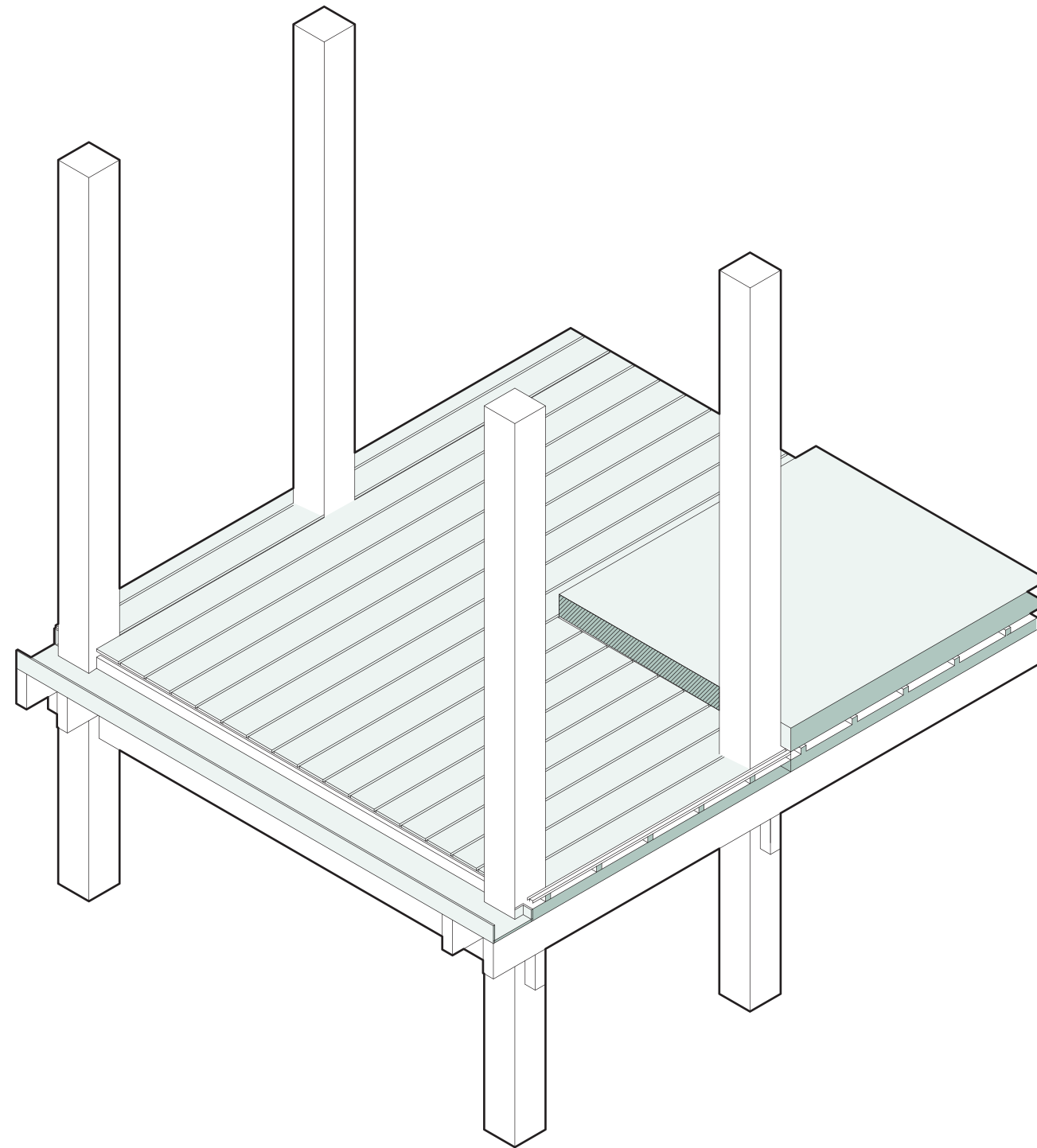
Zooming into intervention structure



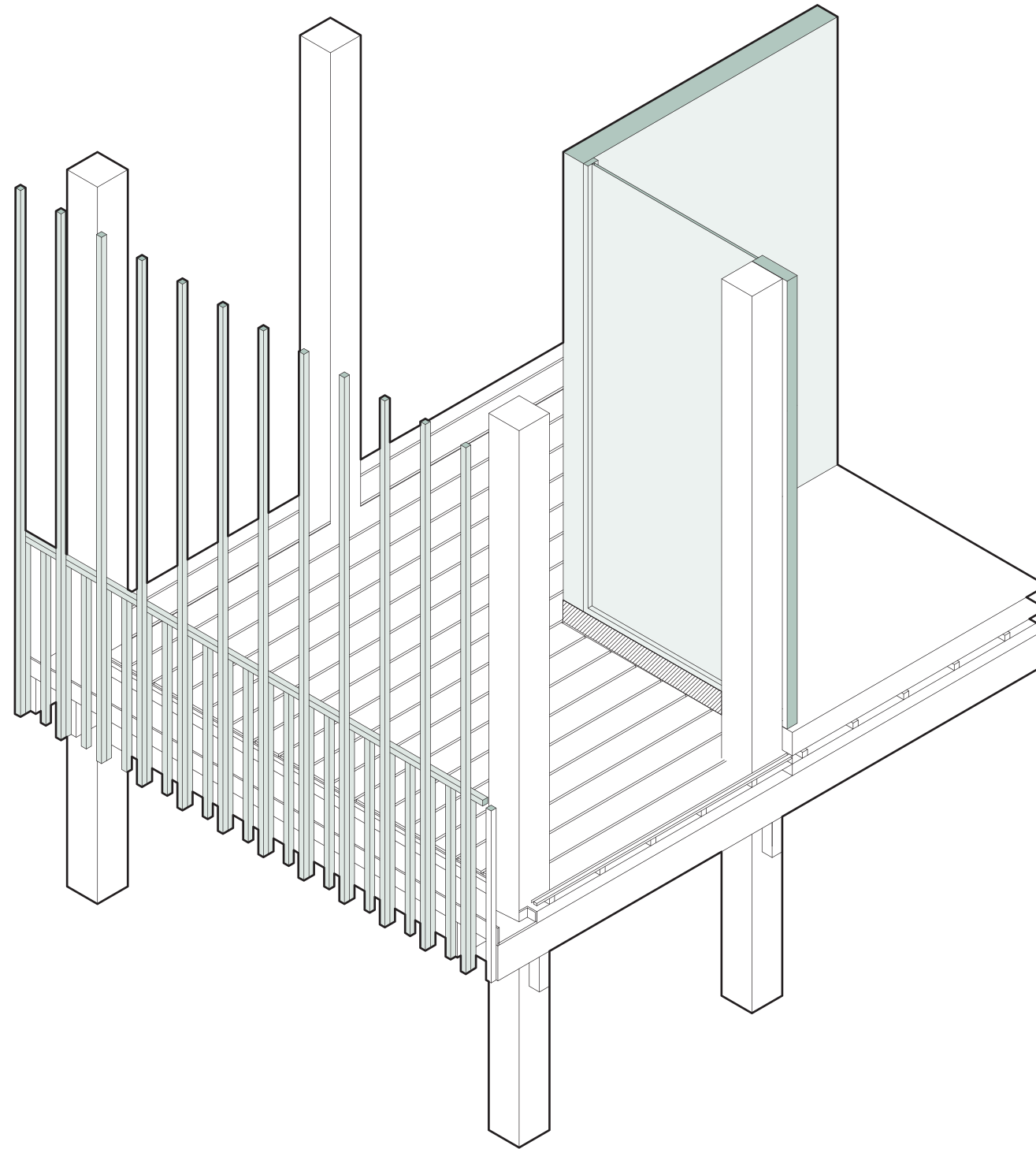
Glulam Timber Column



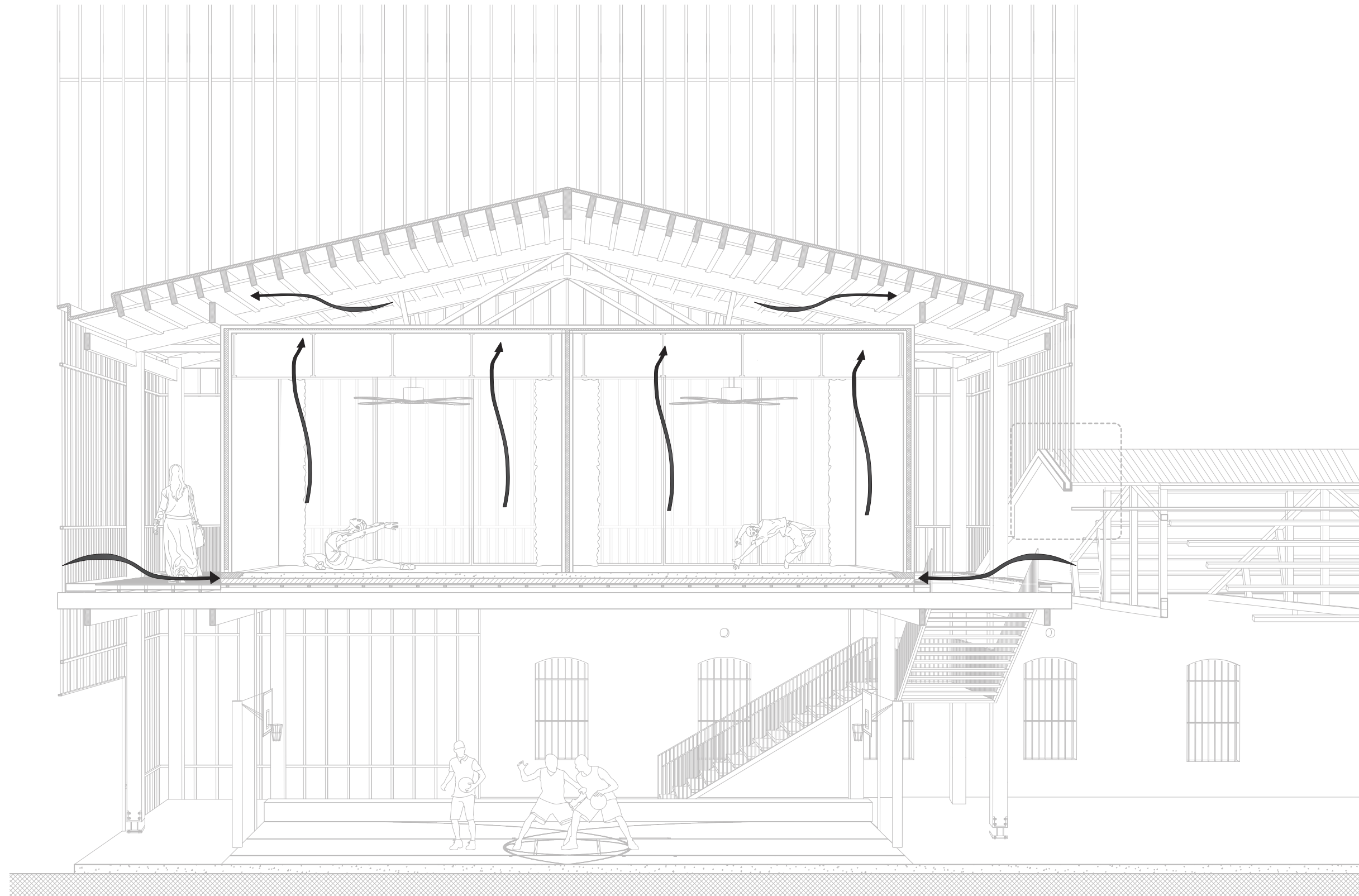
Woodworking - Ancient Building Technology



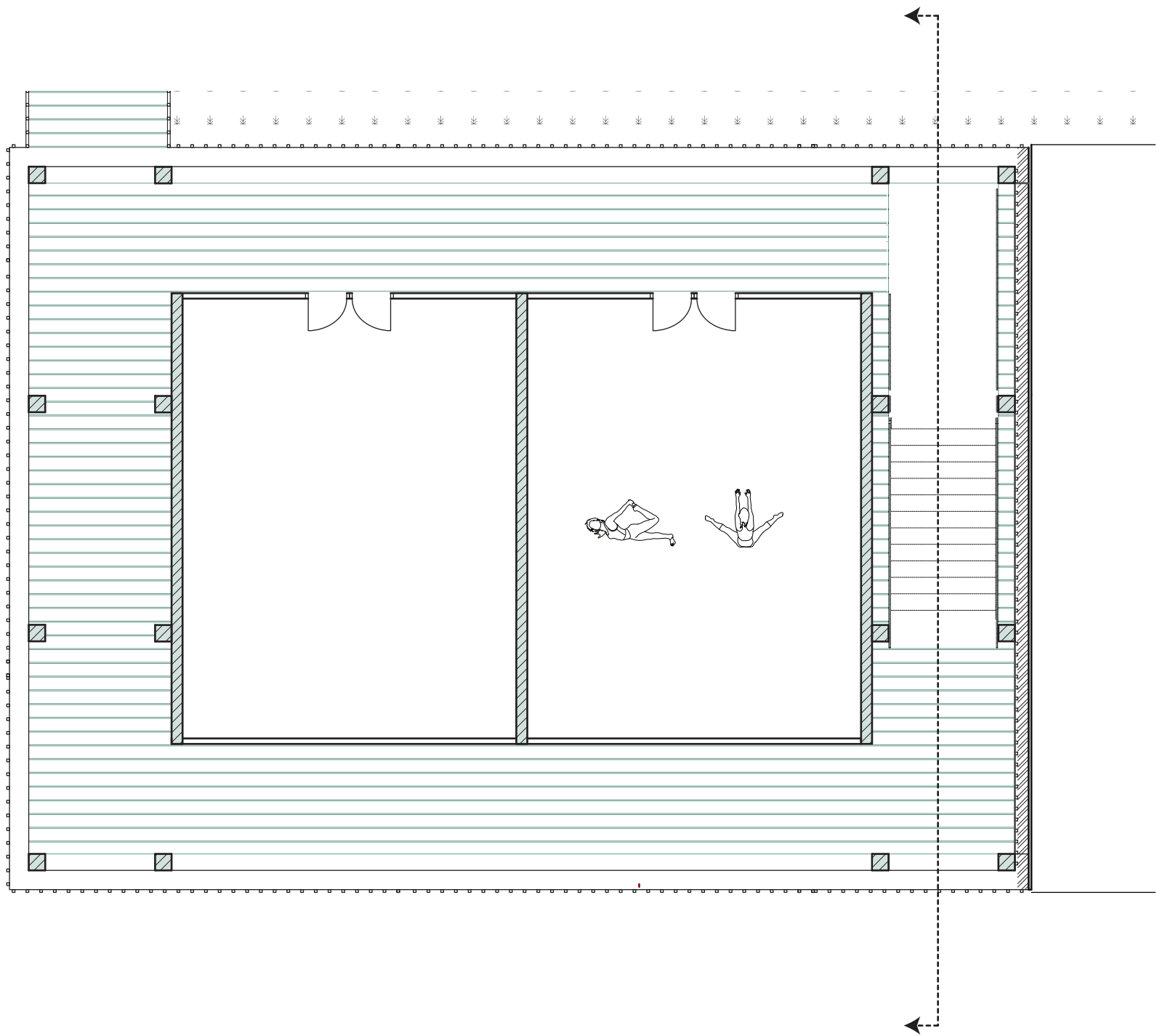
Program lifted up for climatic reasons



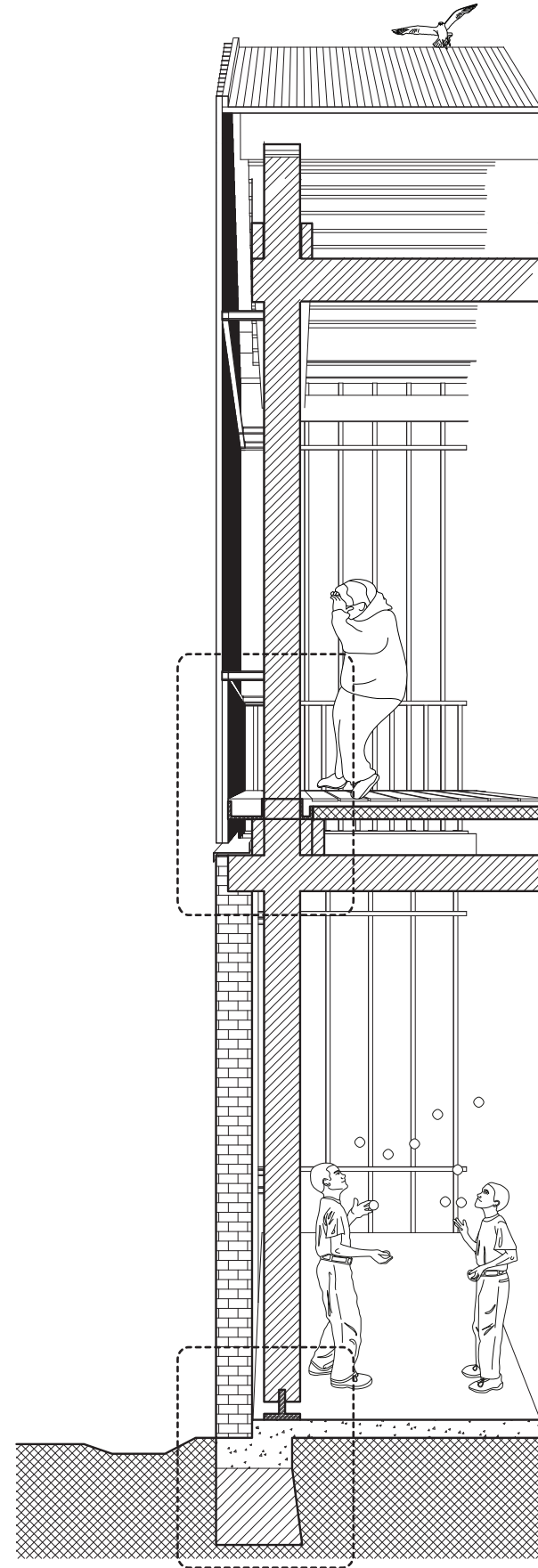
Bamboo Facade & Balustrade



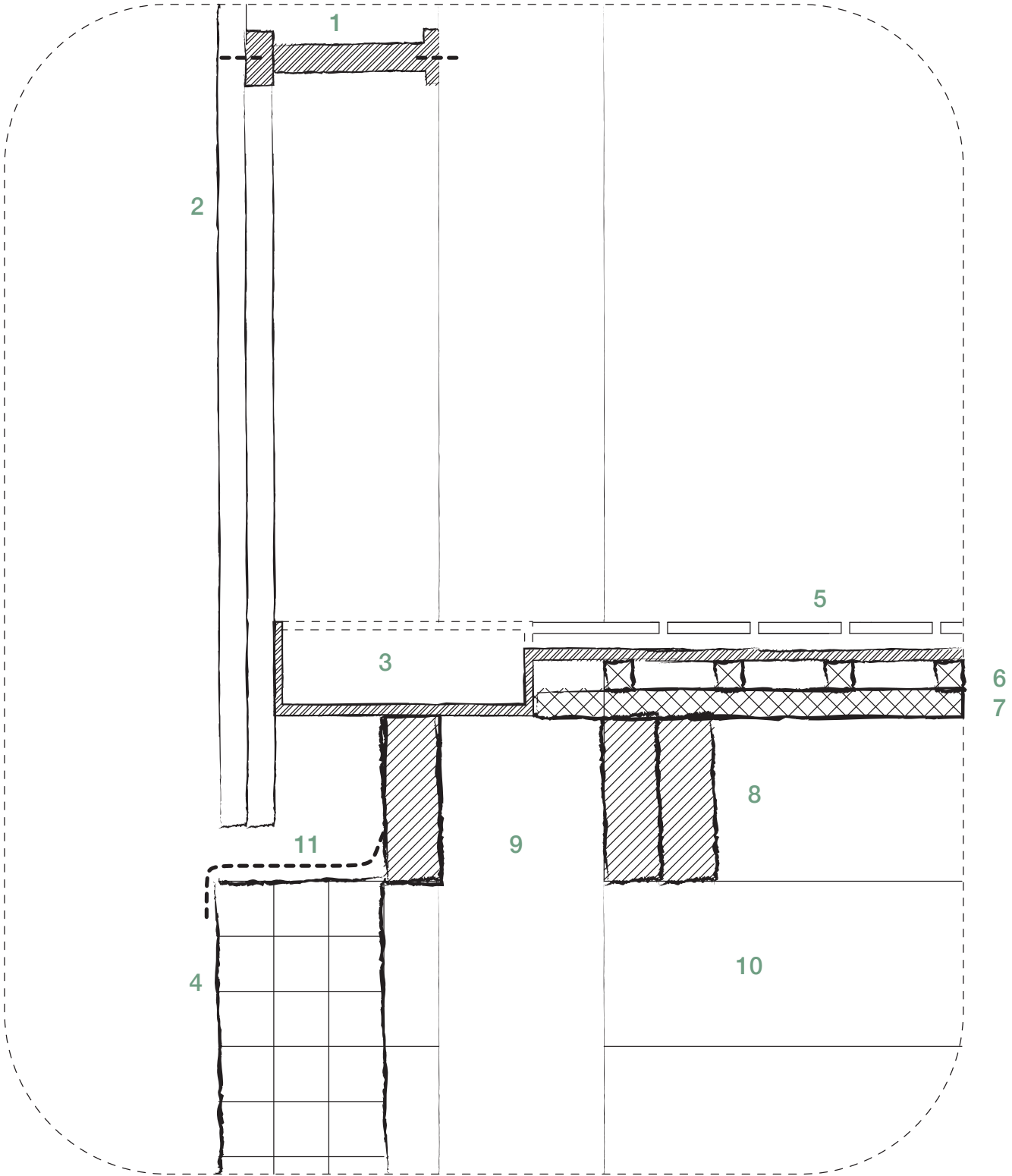
Climate concept



Connection between In-Between and program

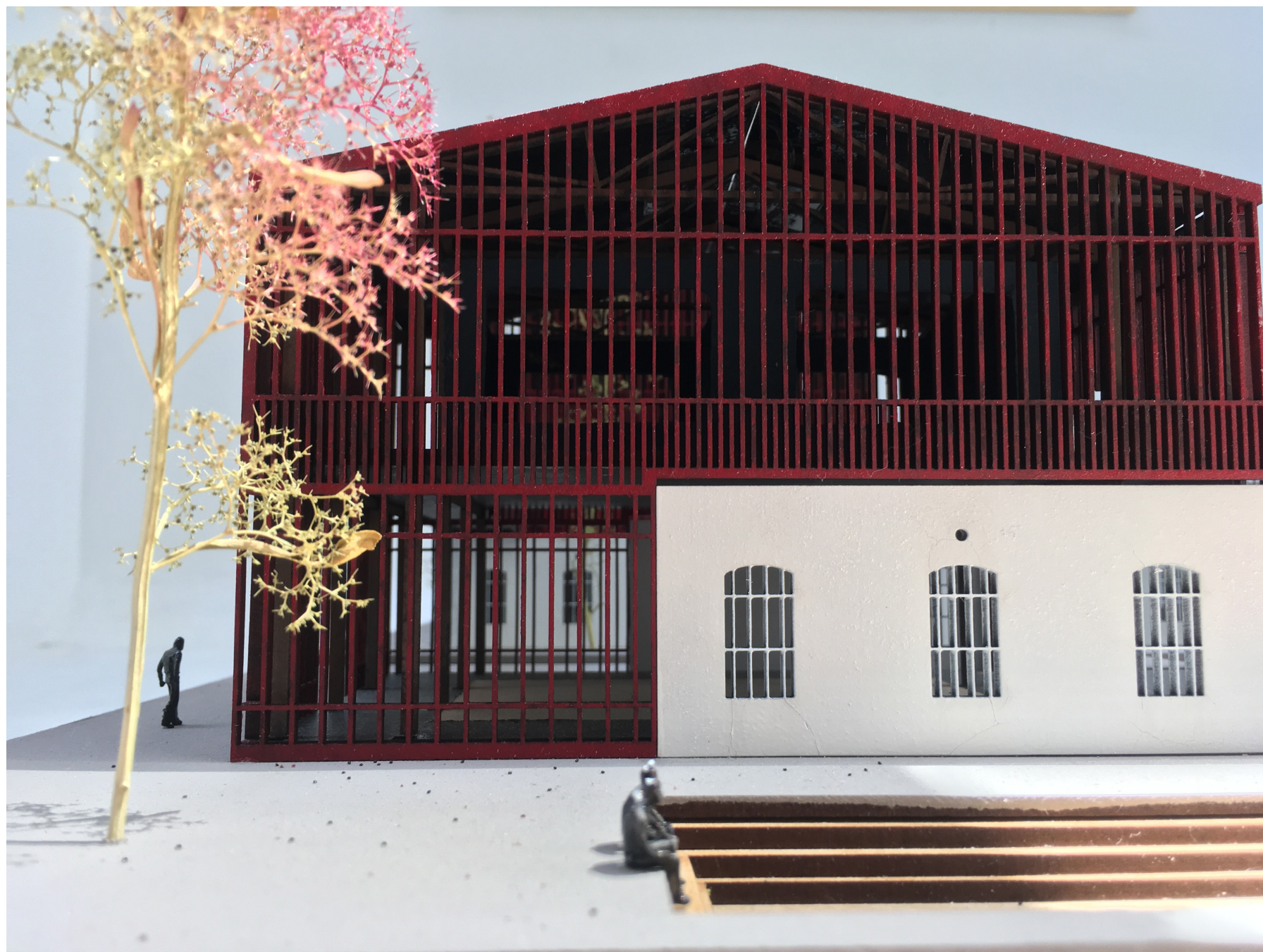


Connection between In-Between and Facade

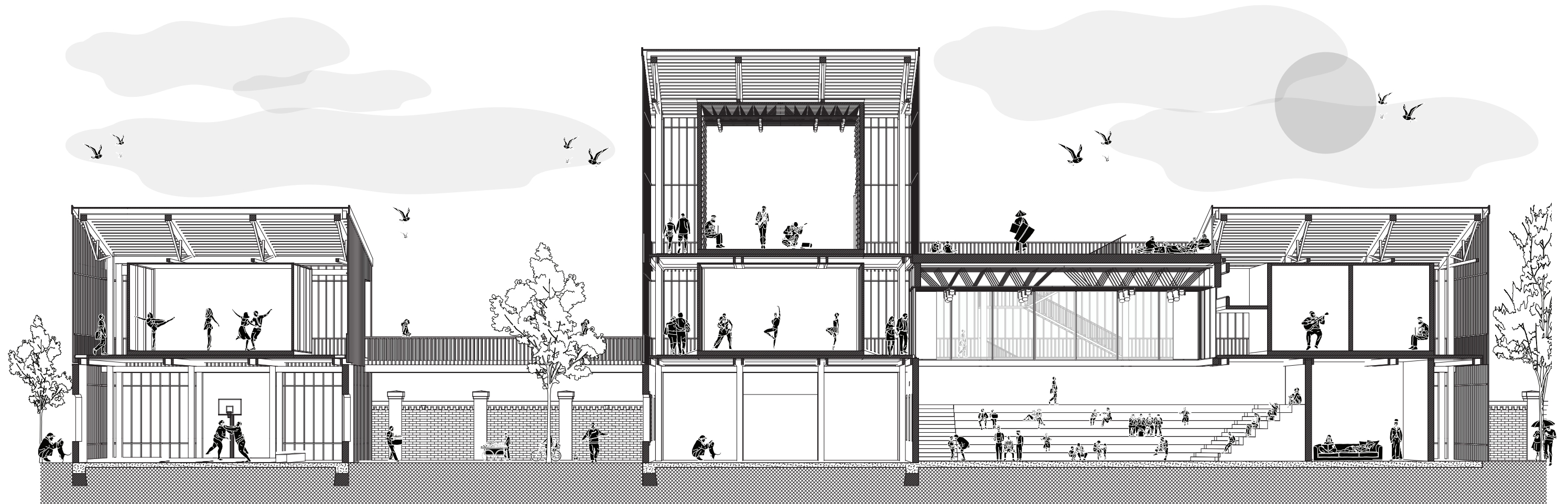


- 01: Steel Holder
- 02: Bamboo
- 03: Gutter
- 04: Brick
- 05: Timber floor
- 06: Floor Joist
- 07: Acoustic Layer
- 08: Beam
- 09: Glulam Column
- 10: Beam
- 11: Steel Plate

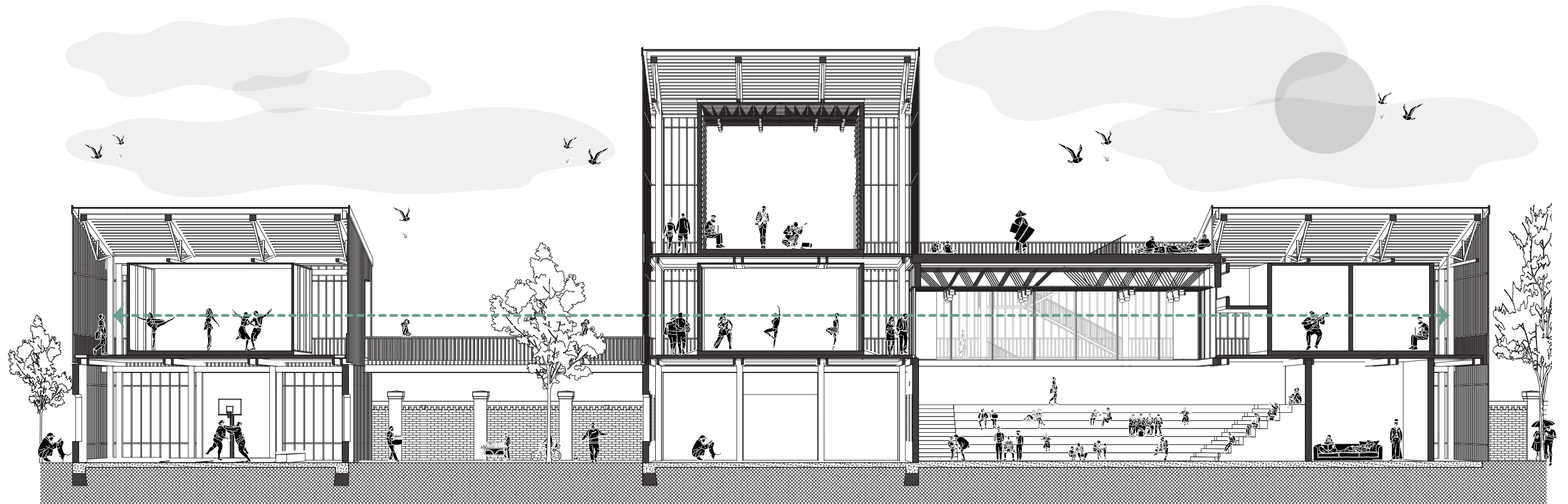
Detail - New / Old structure / Gutter







Bridging the structures



Bridging the structures



Bridging the structures

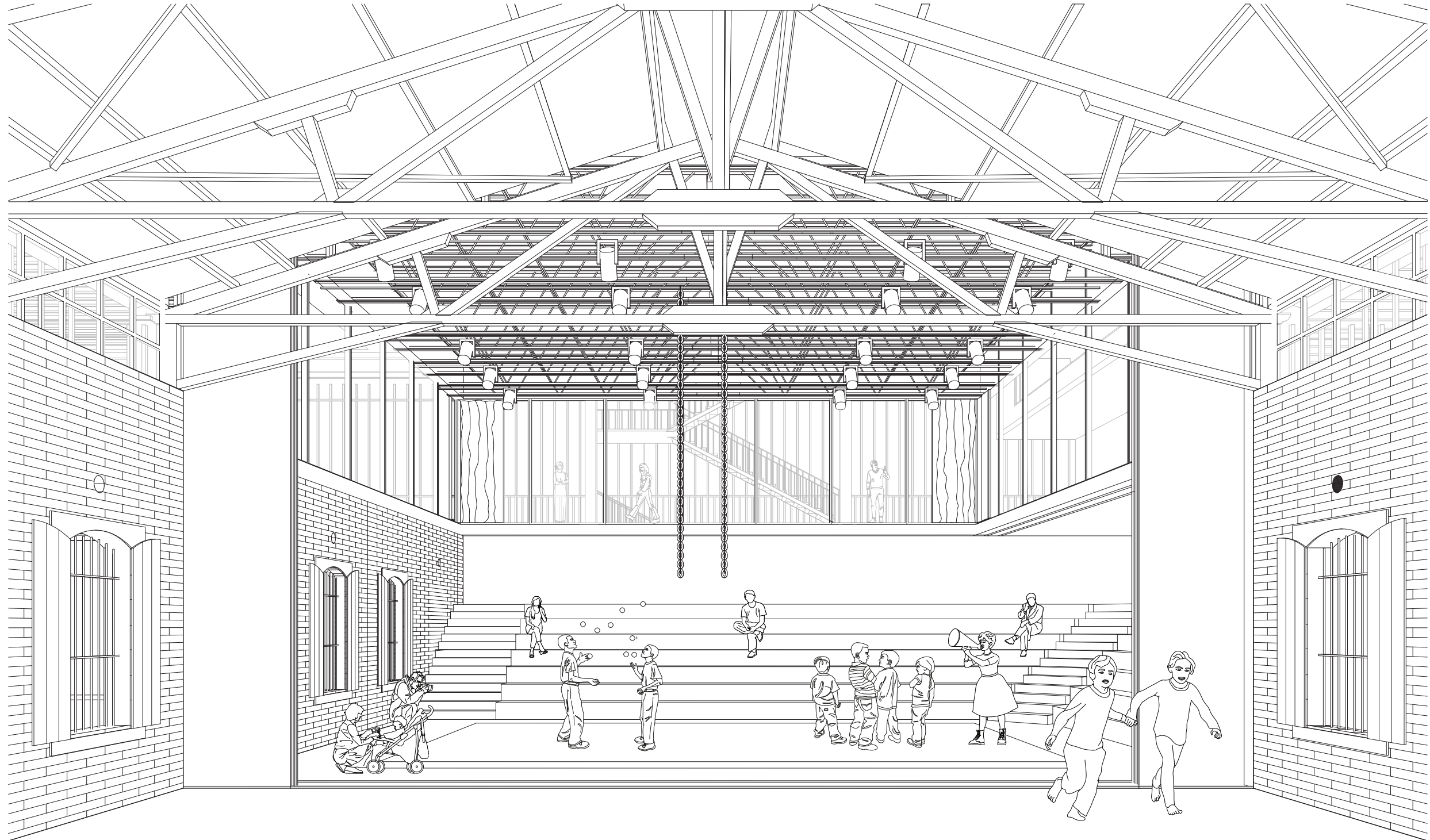


Bridging the structures

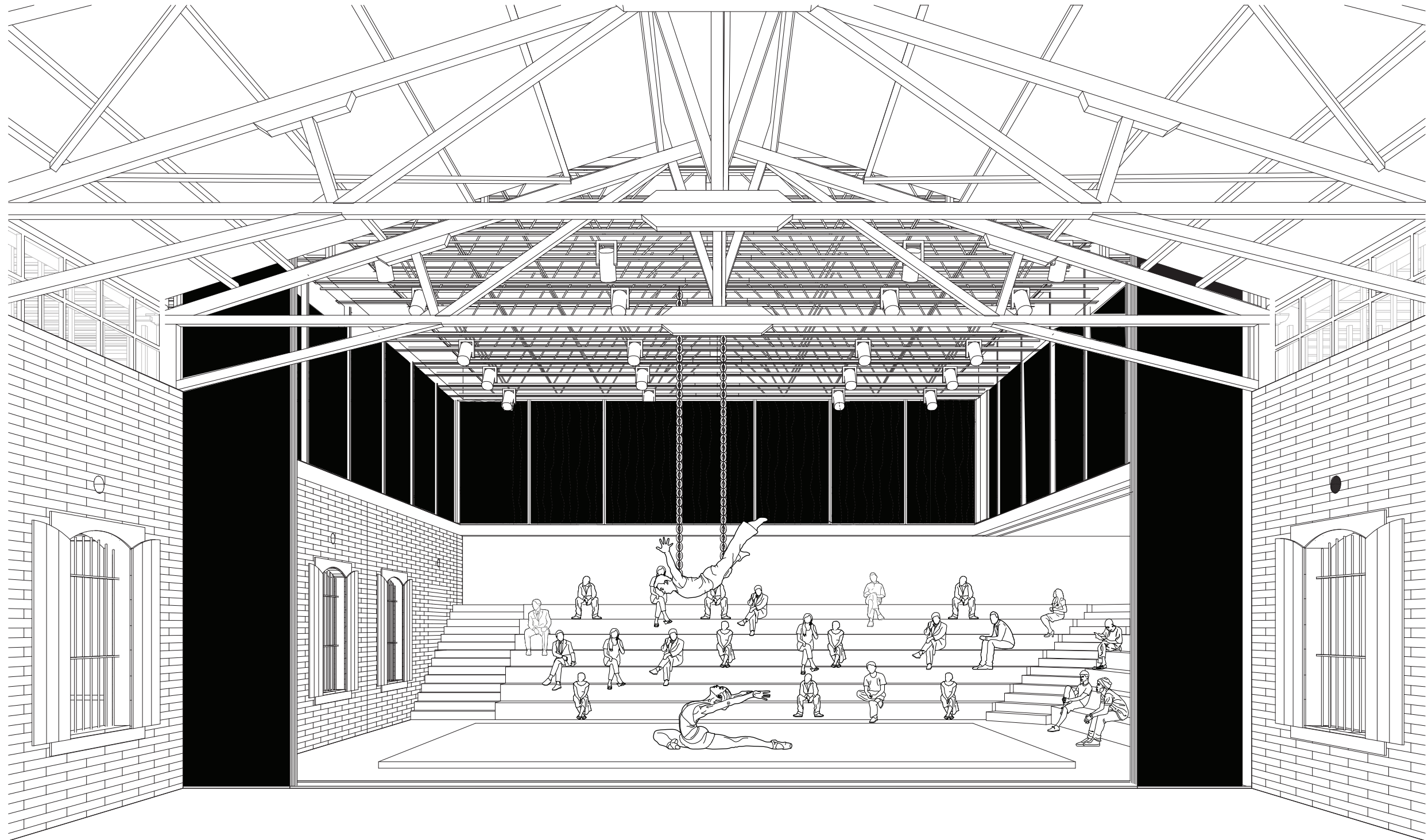


Theater / Multi-functional room

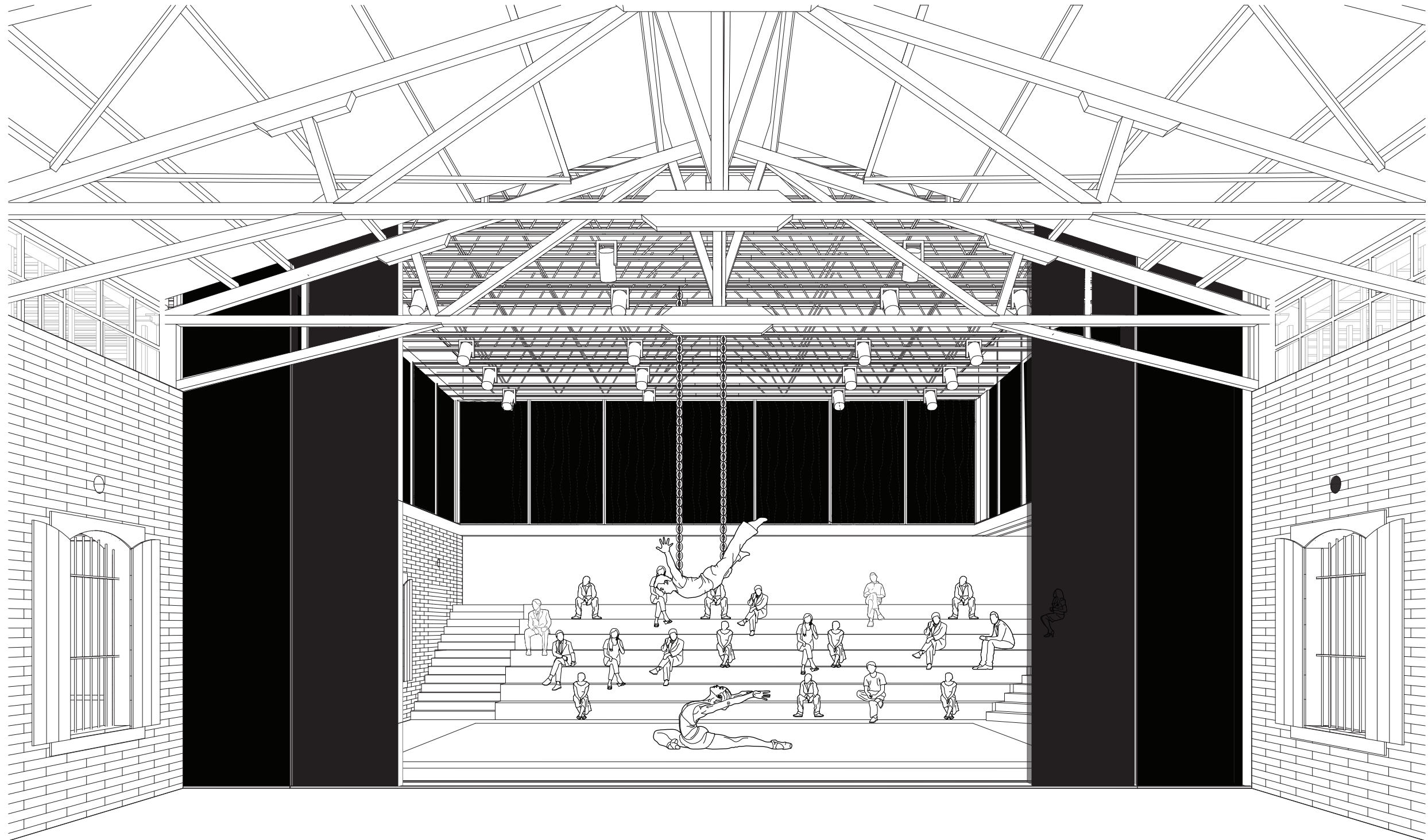




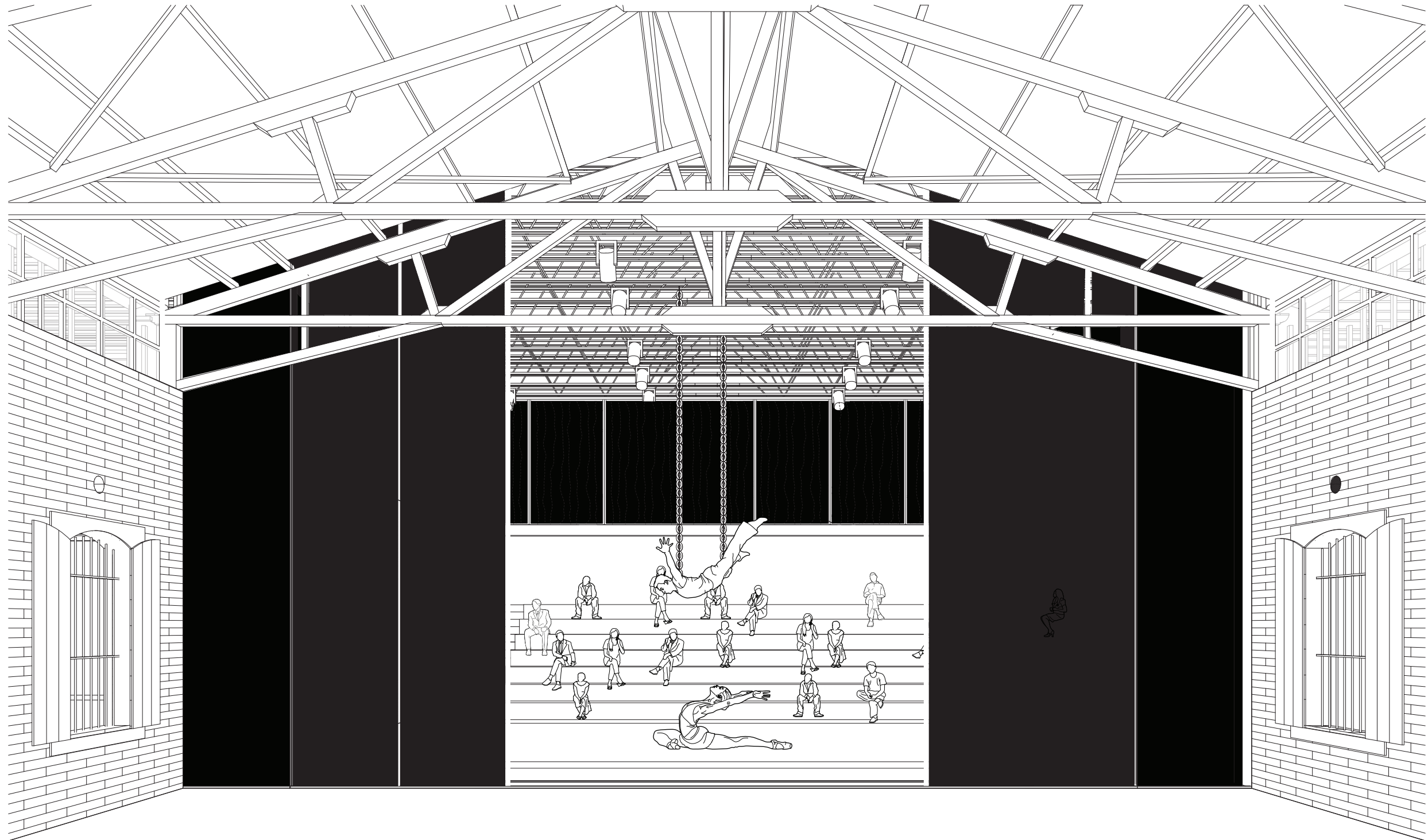
Theater / Multi-functional room / Daytime



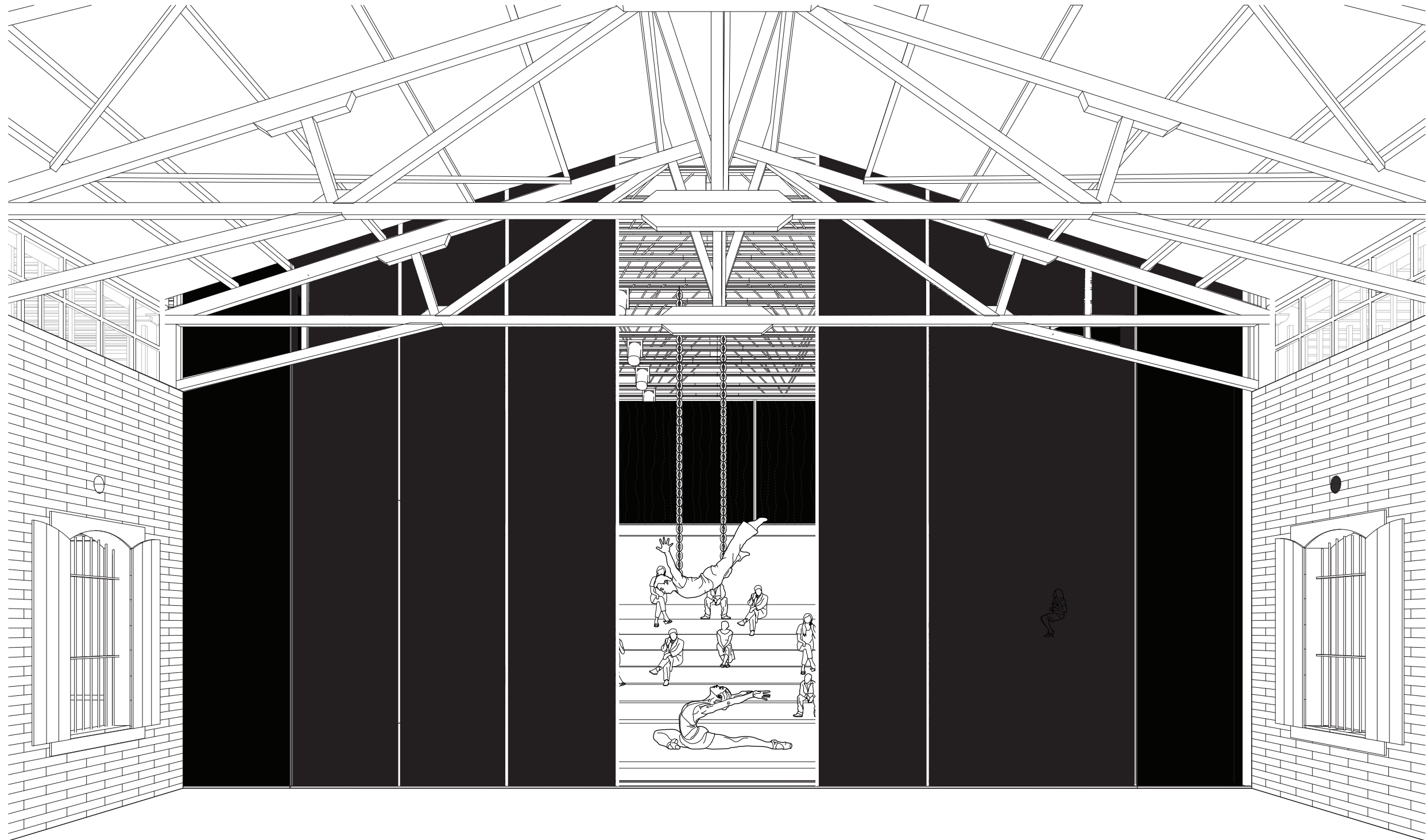
Theater / Multi-functional room / Nighttime



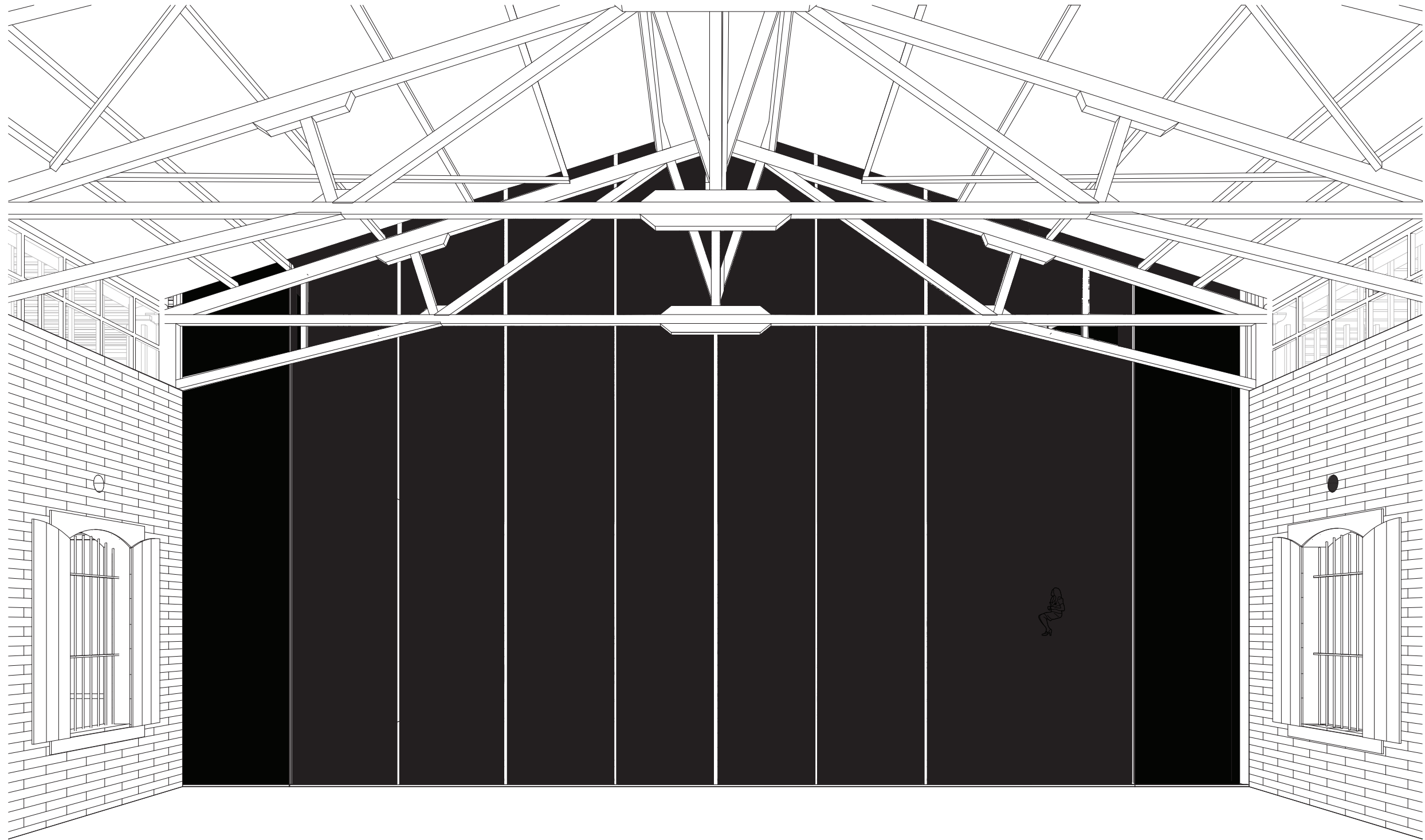
Theater - Industrial look - Trolley Track



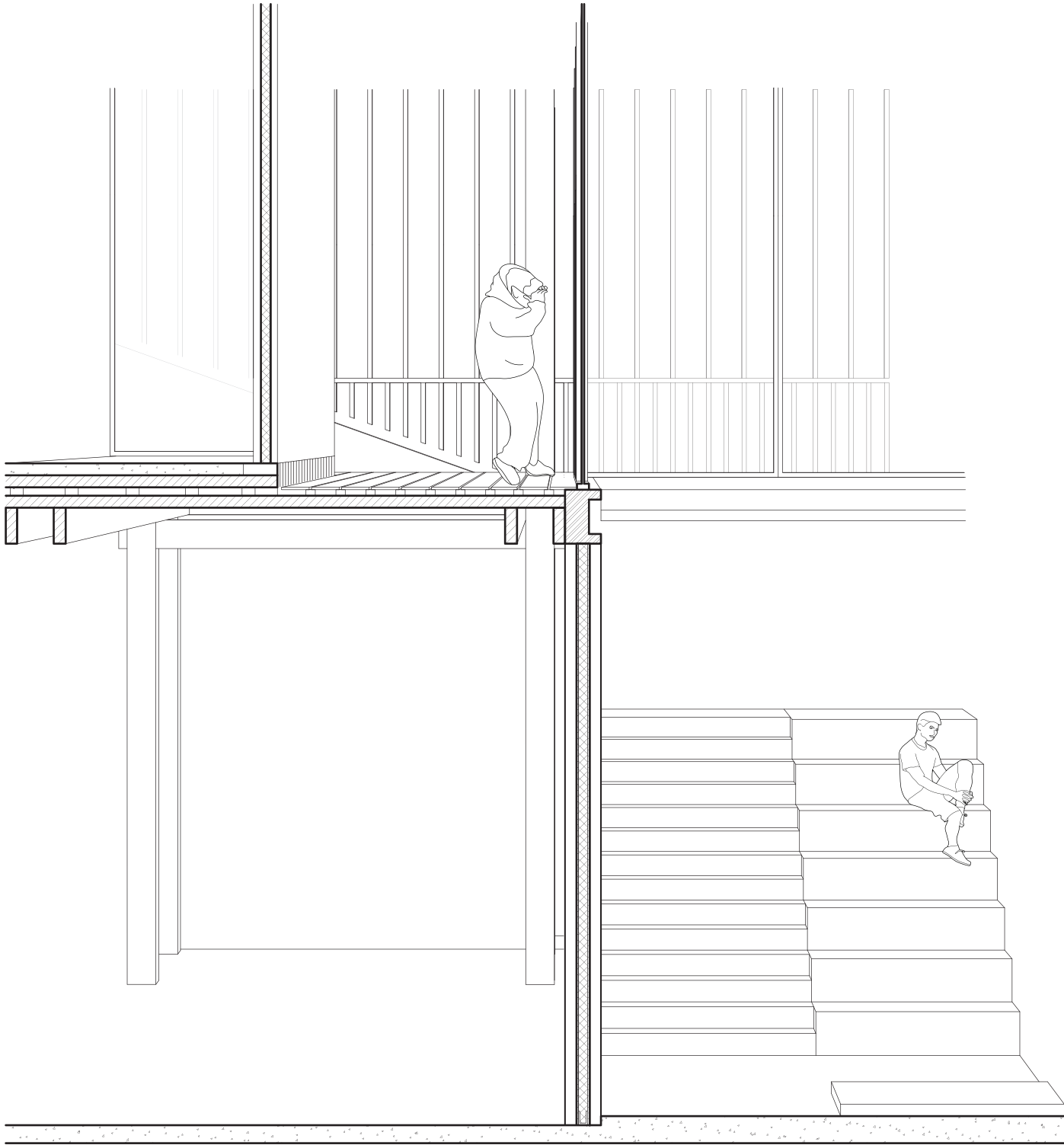
Theater - Industrial look - Trolley Track

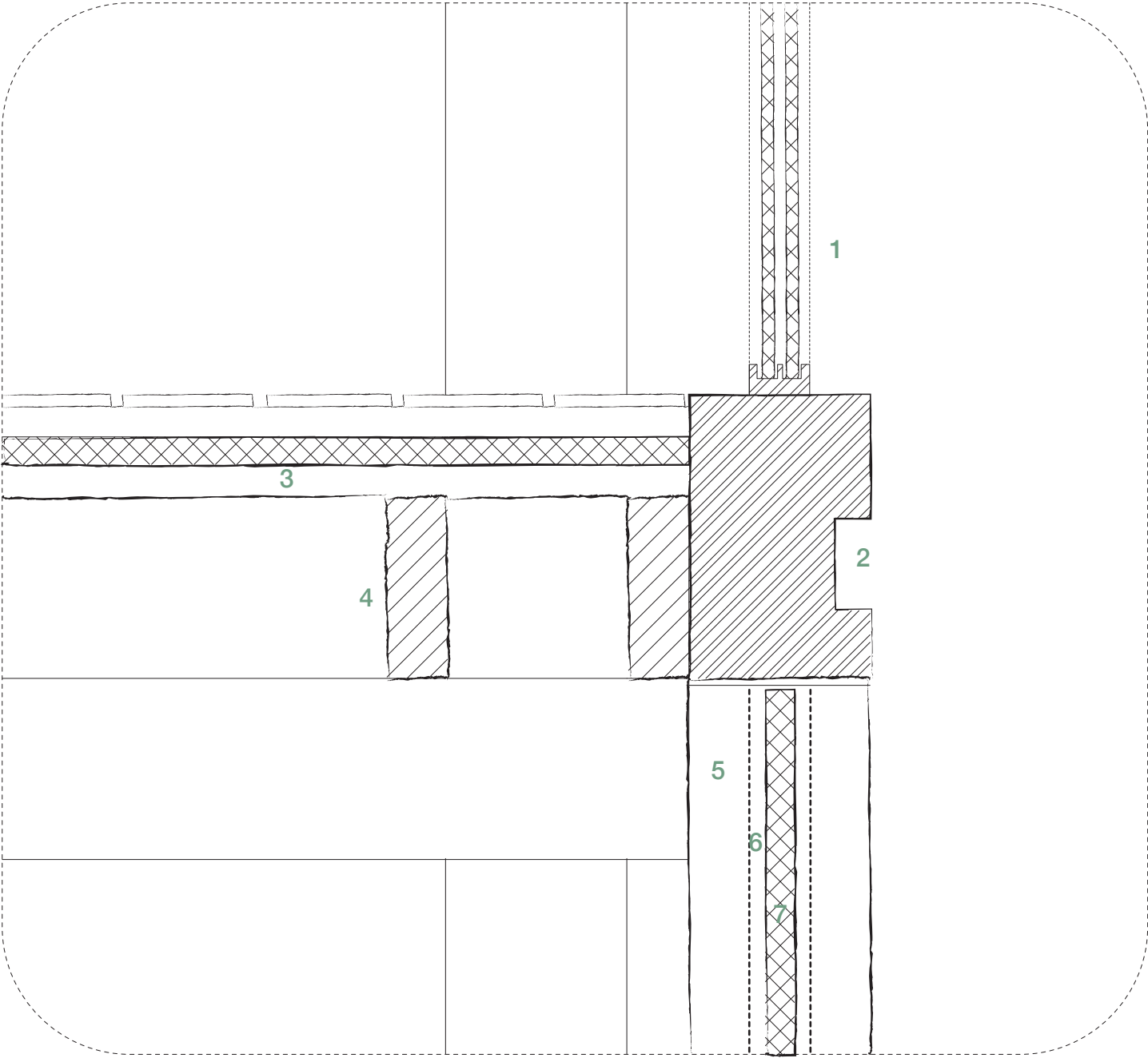


Theater - Industrial look - Trolley Track



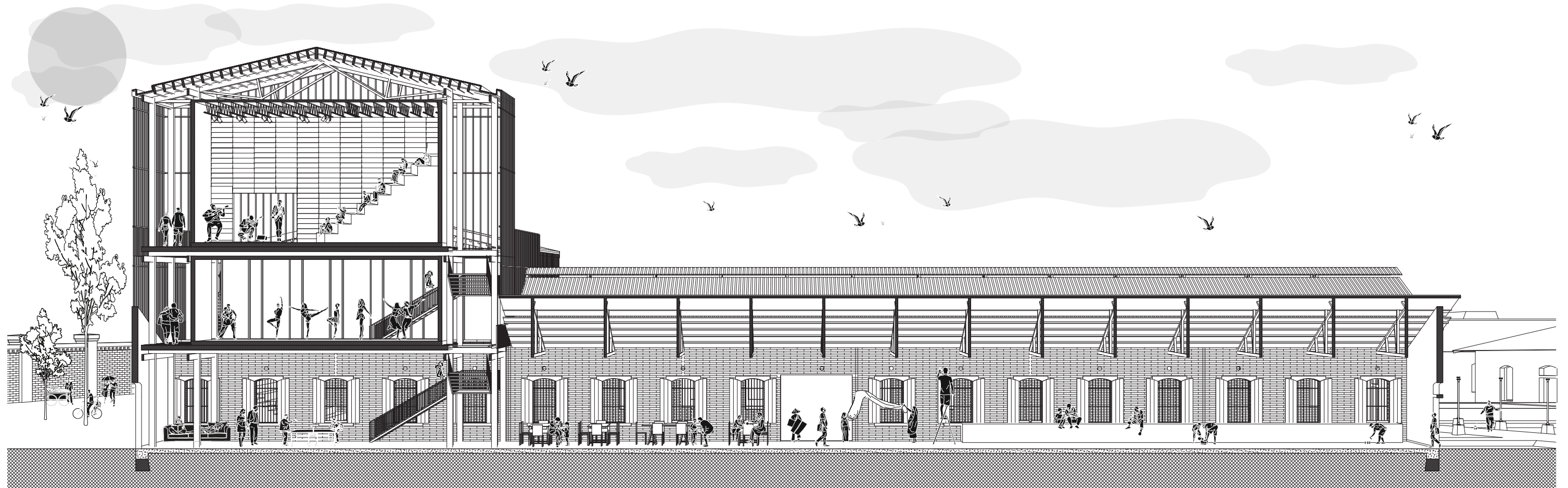
Theater - Industrial look - Trolley Track



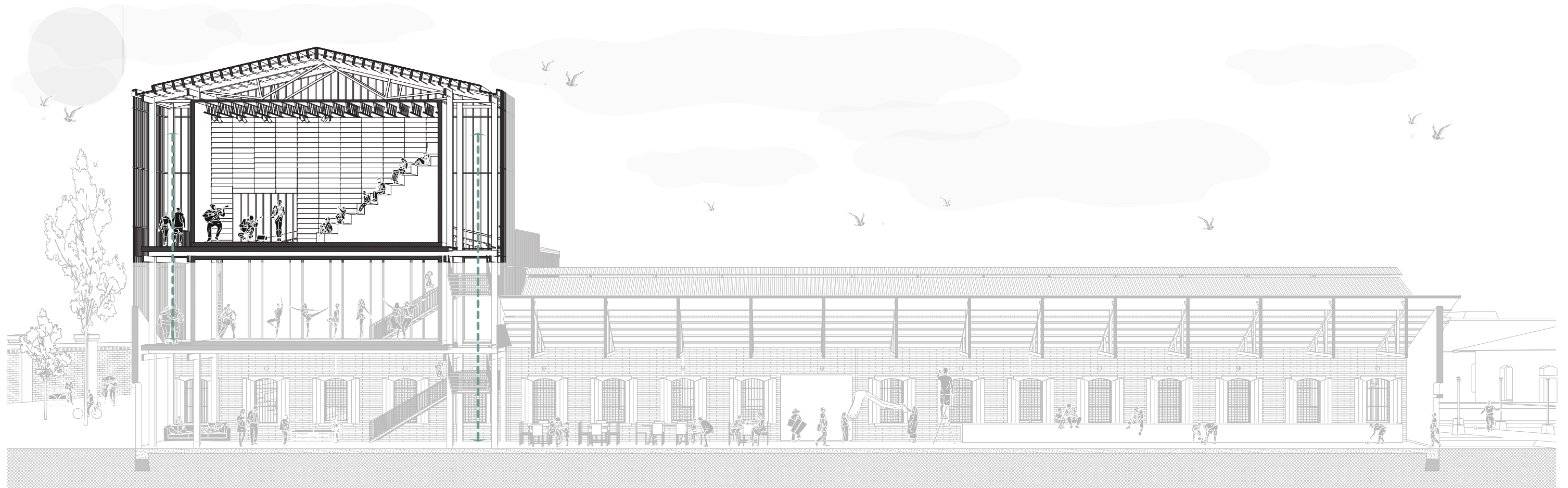


- 01: Acoustic Glass
- 02: Steel / Lightning
- 03: Acoustic Layer
- 04: Beam
- 05: Brick
- 06: Soundproofing Glue
- 07: Acoustic Cavity Insulation

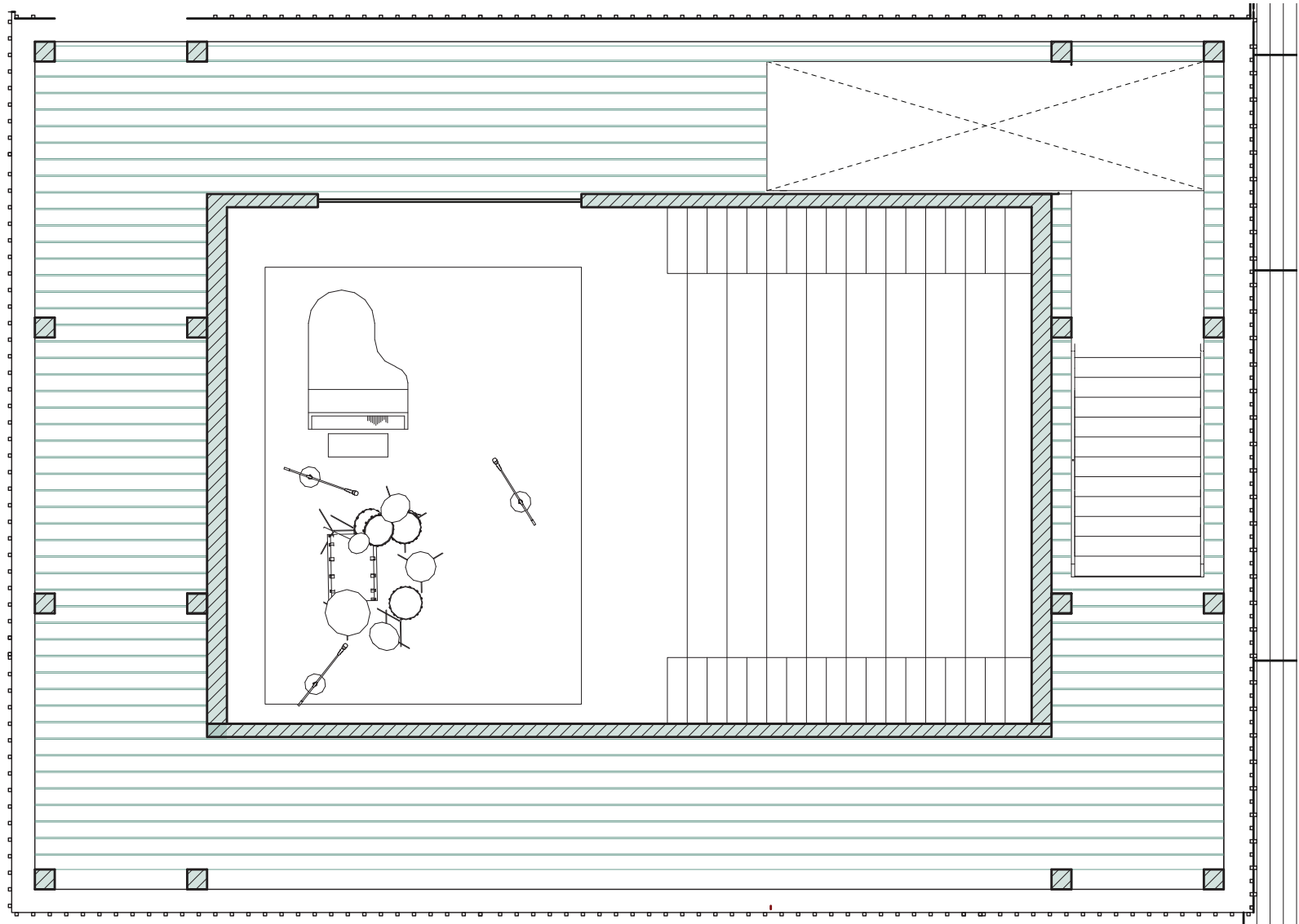
Detail - Dealing with acoustics



Vertical / horizontal connection



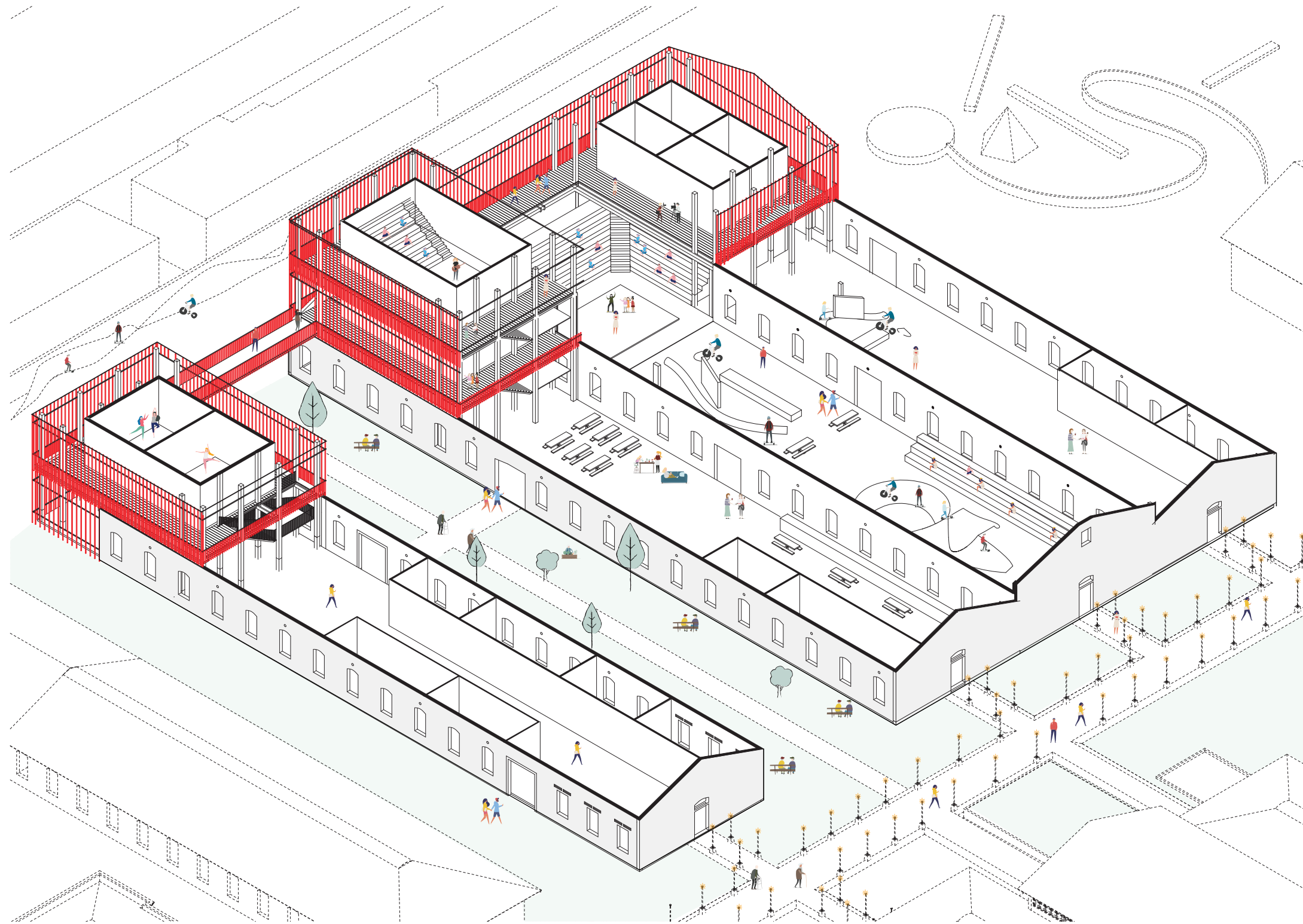
Music hall



Music hall - Different surfaces



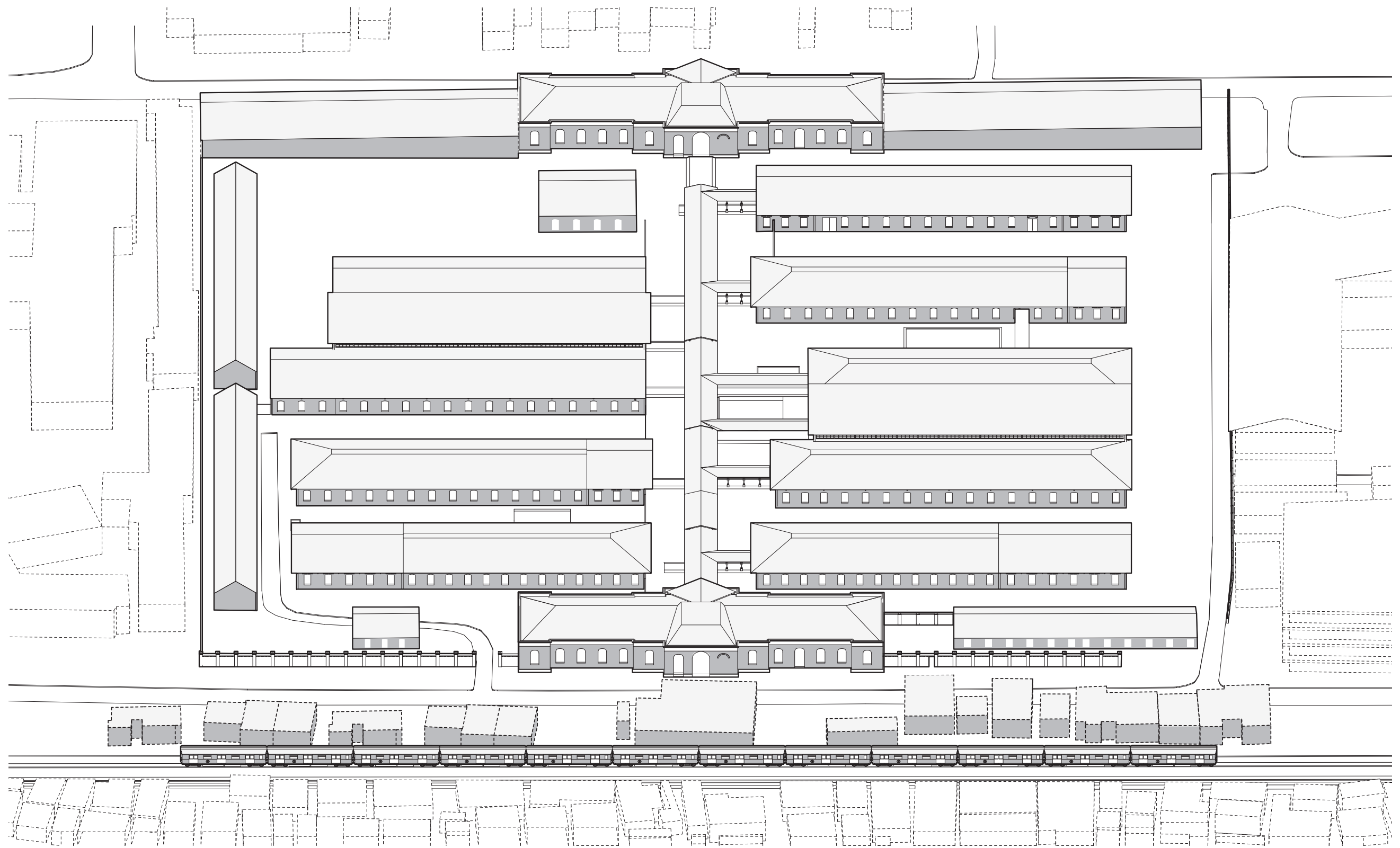
Music hall - Atmosphere & Materiality

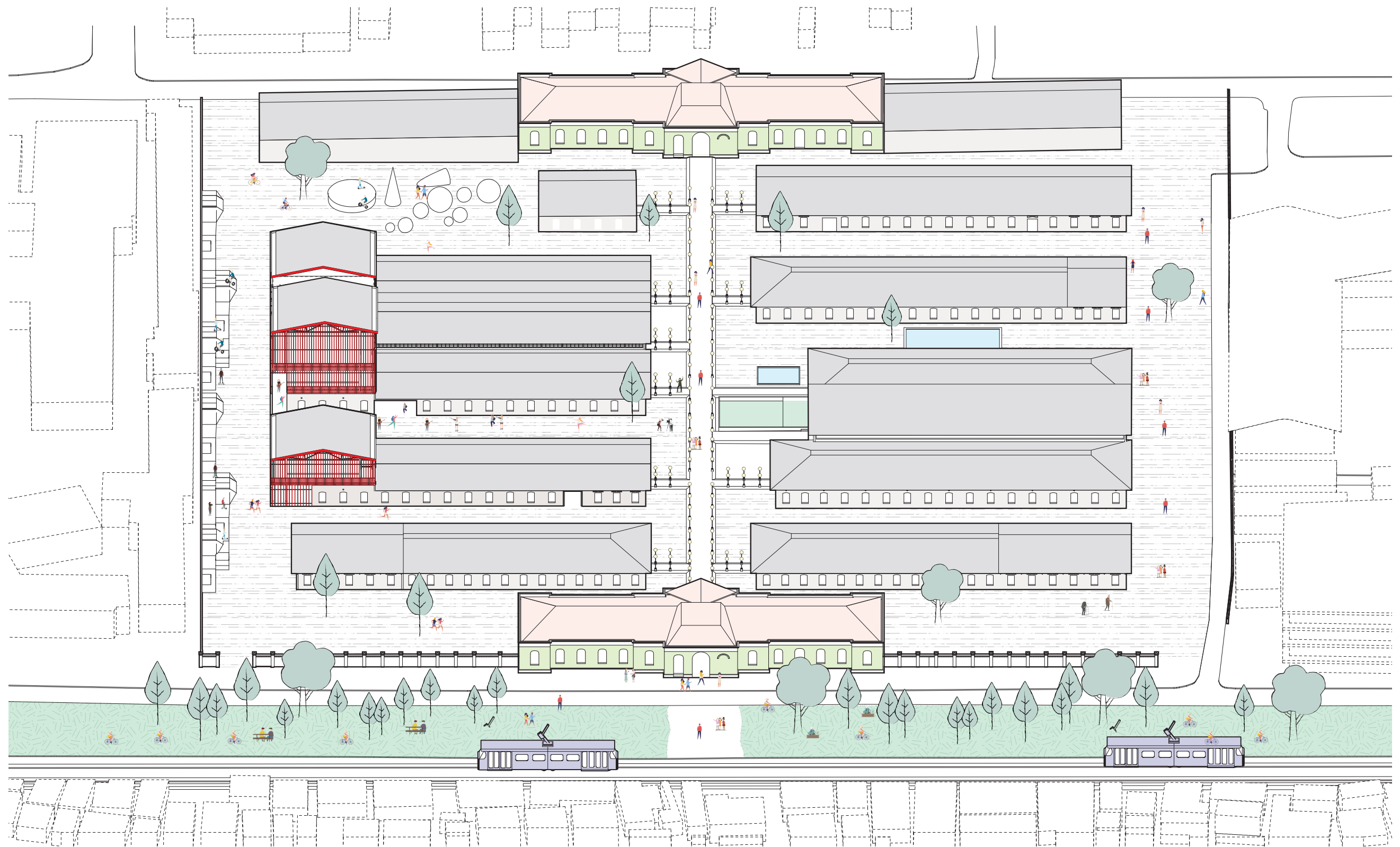


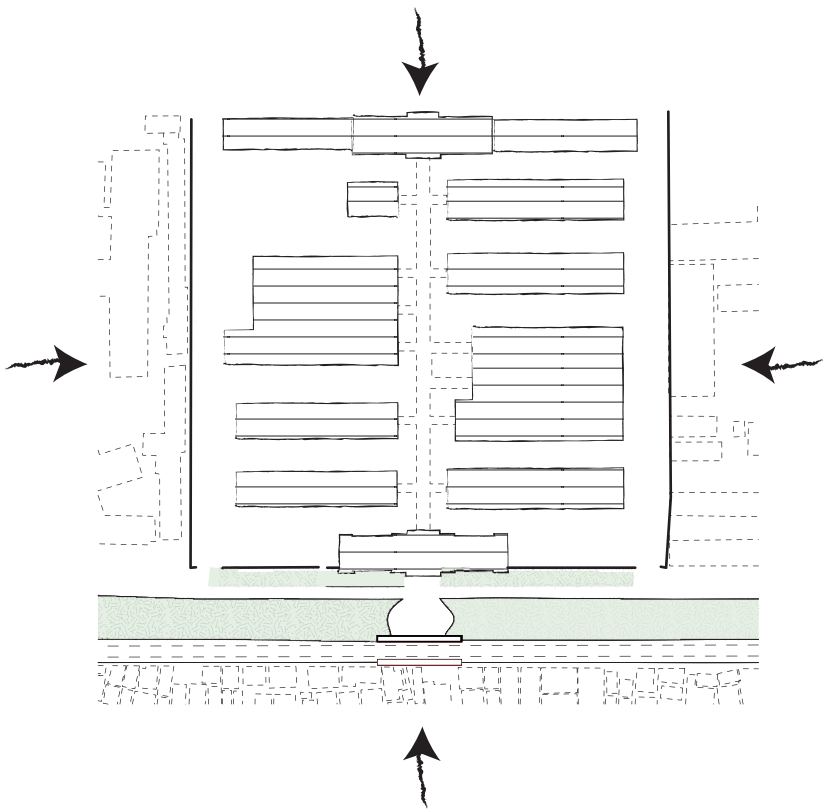
Urban Fabric & Community Feeling



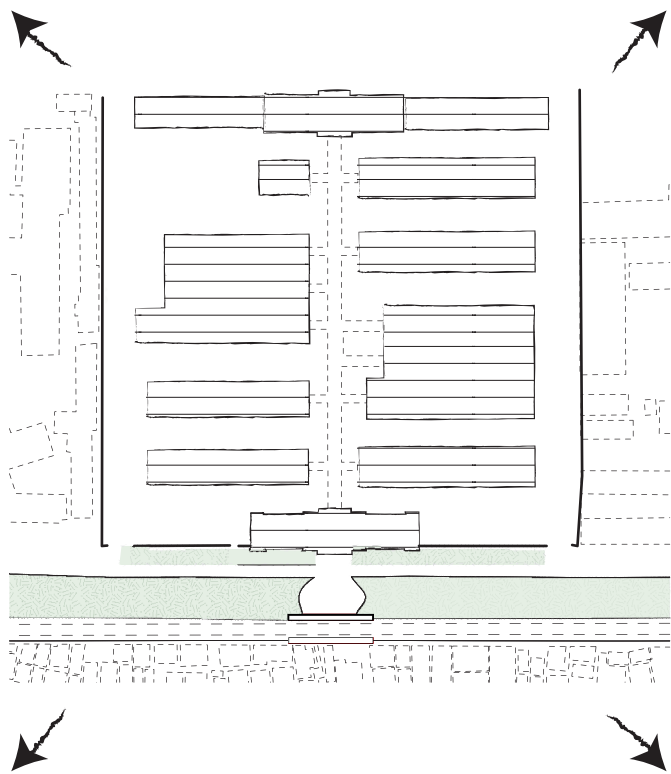
Urban Fabric & Community Feeling



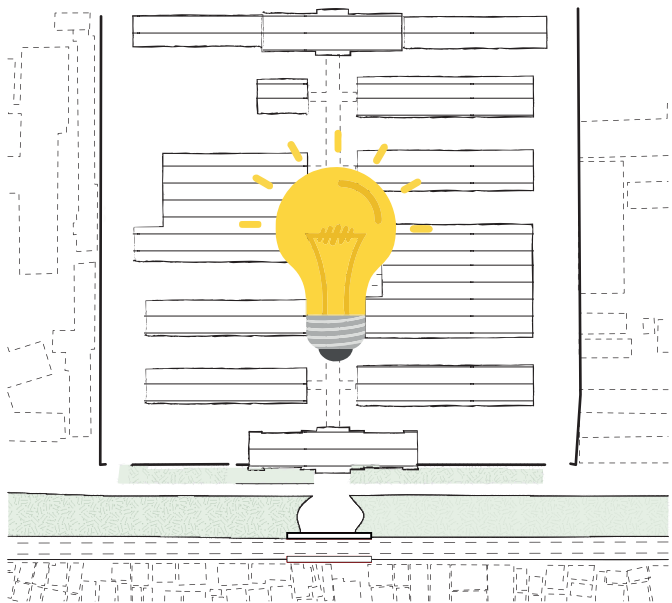




Showcase



Influence



Example

