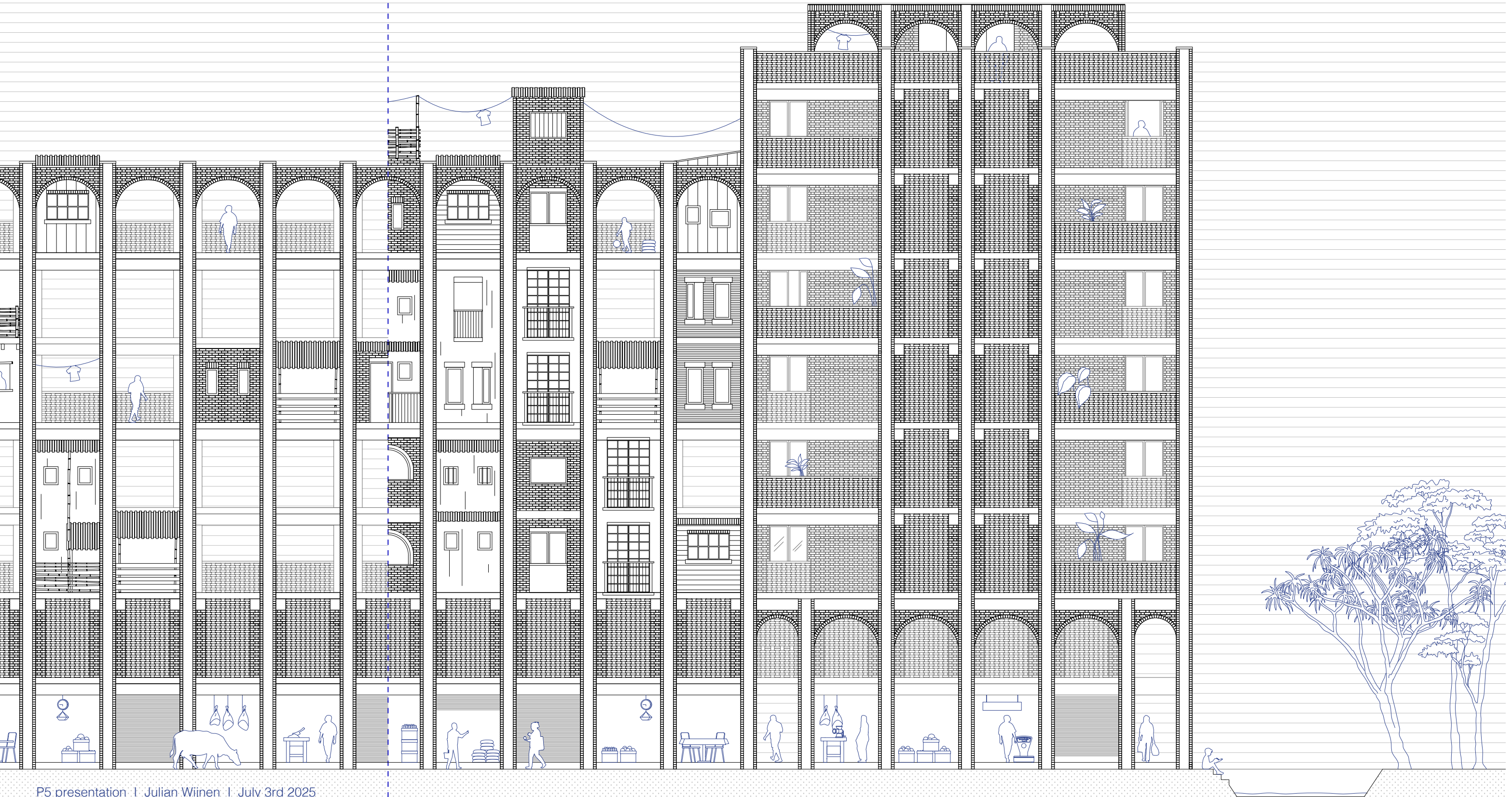


INCREMENTAL HIGH-RISE

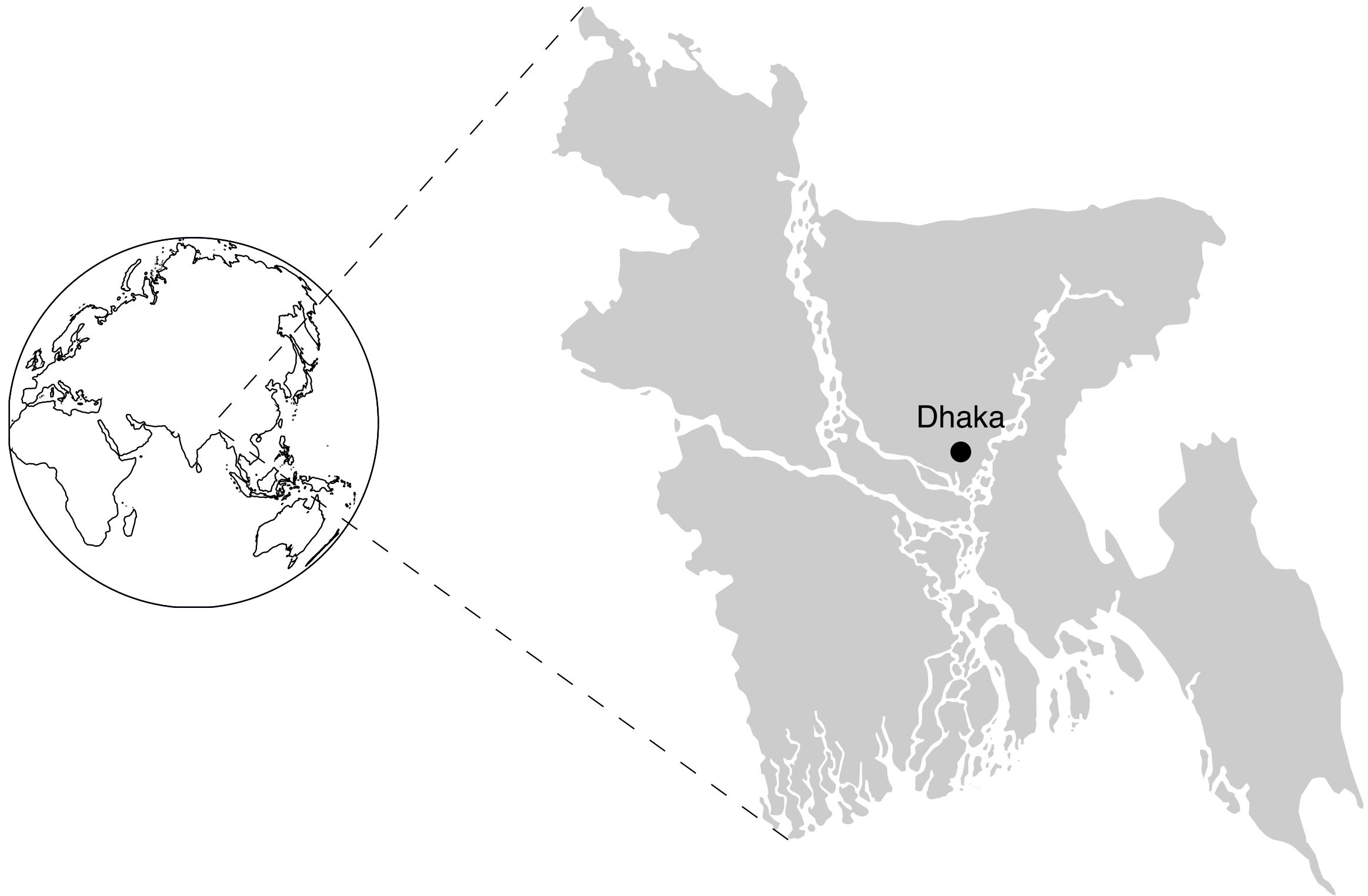
Housing project for the Hawkers
Market in Sylhet, Bangladesh



GLOBAL HOUSING



BANGLADESH



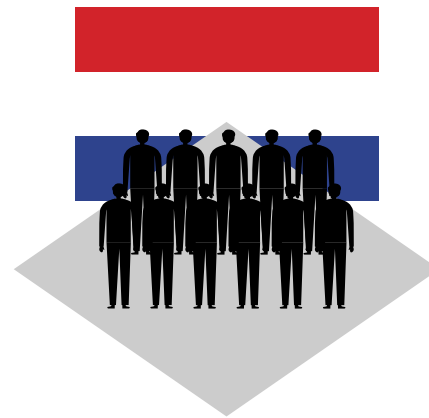




55 pers. / km²



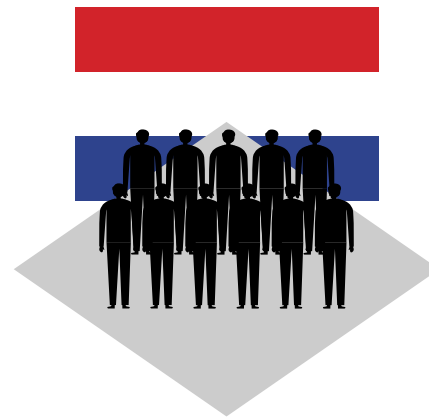
55 pers. / km²



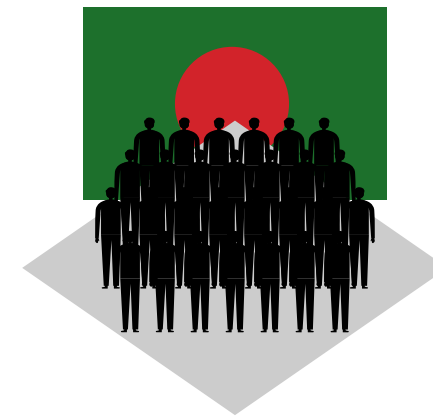
541 pers. / km²



55 pers. / km²



541 pers. / km²

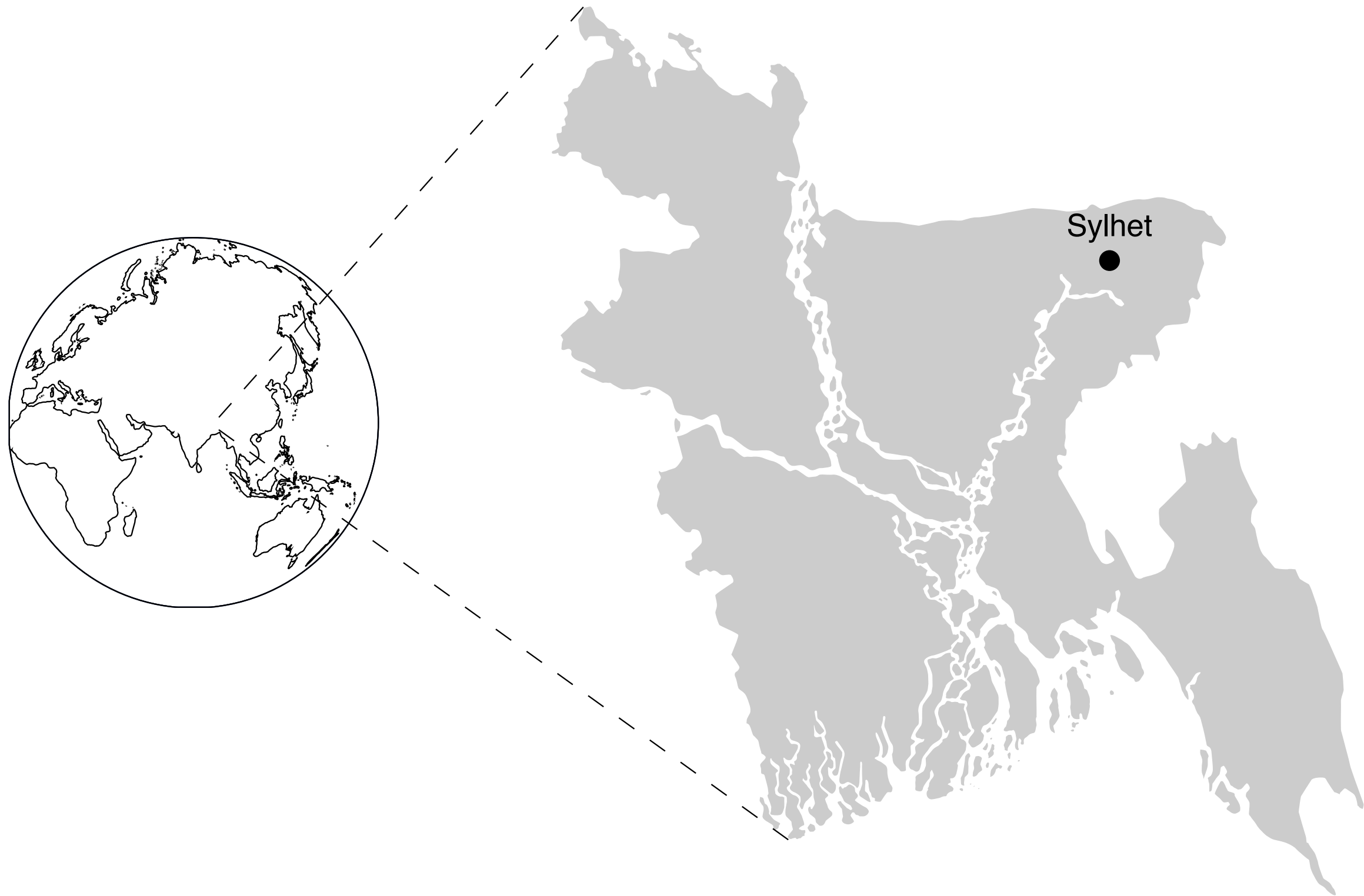


1333 pers. / km²









Problem

Problem

Lack of space

Problem

Lack of space

Informal growth

Problem

Solution

Lack of space

Informal growth

Problem

Solution

Lack of space

High-rise

Informal growth

Problem

Solution

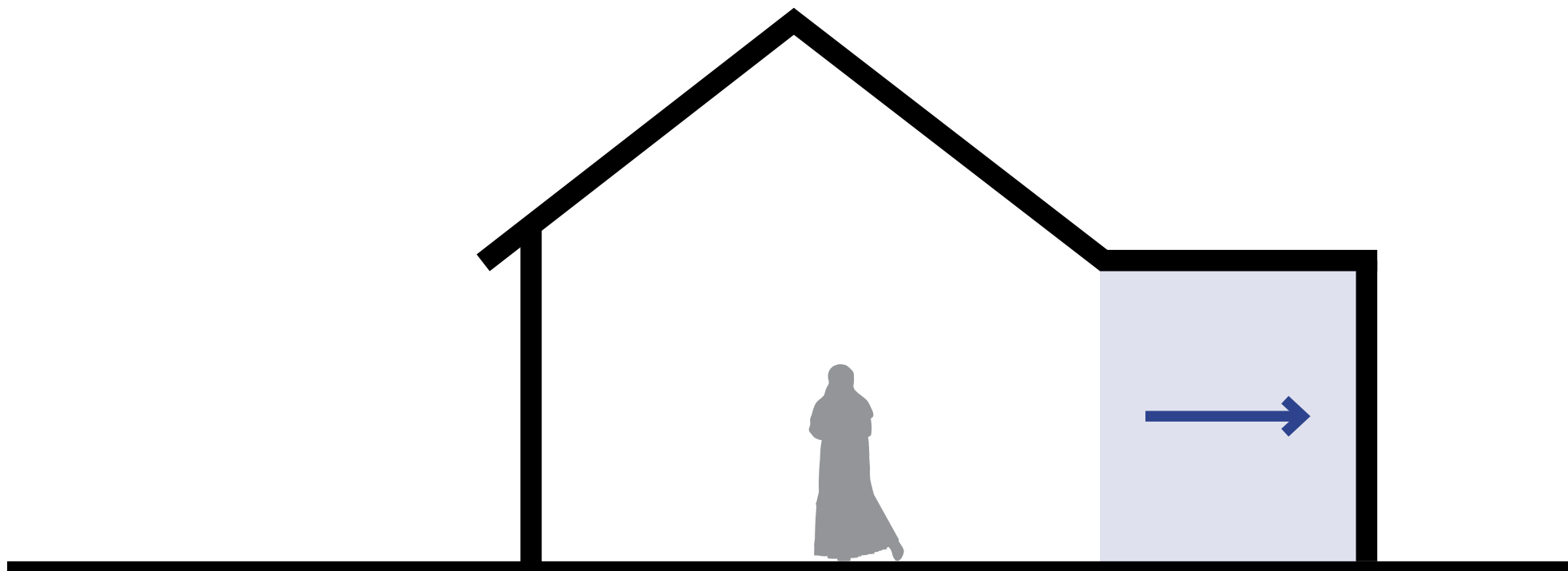
Lack of space

High-rise

Informal growth

Incremental housing







Left image: 'Quinta Monroy' incremental housing project by Elemental, Iquique, Chile
 Right image: 'Villa Verde' incremental housing project by Elemental, Constitución, Chile

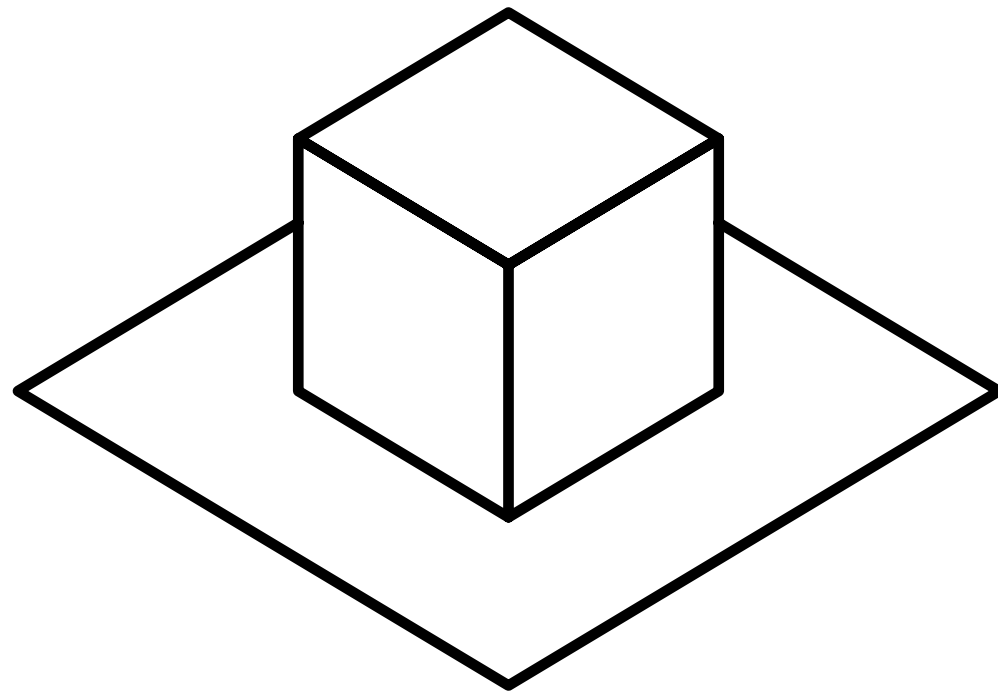
“Incremental housing has proved capable of giving low income home-seekers what they cannot provide themselves: well-serviced land, infrastructure, and foundational structures for a sturdy and extensible house.” (Wainer et al., 2016)

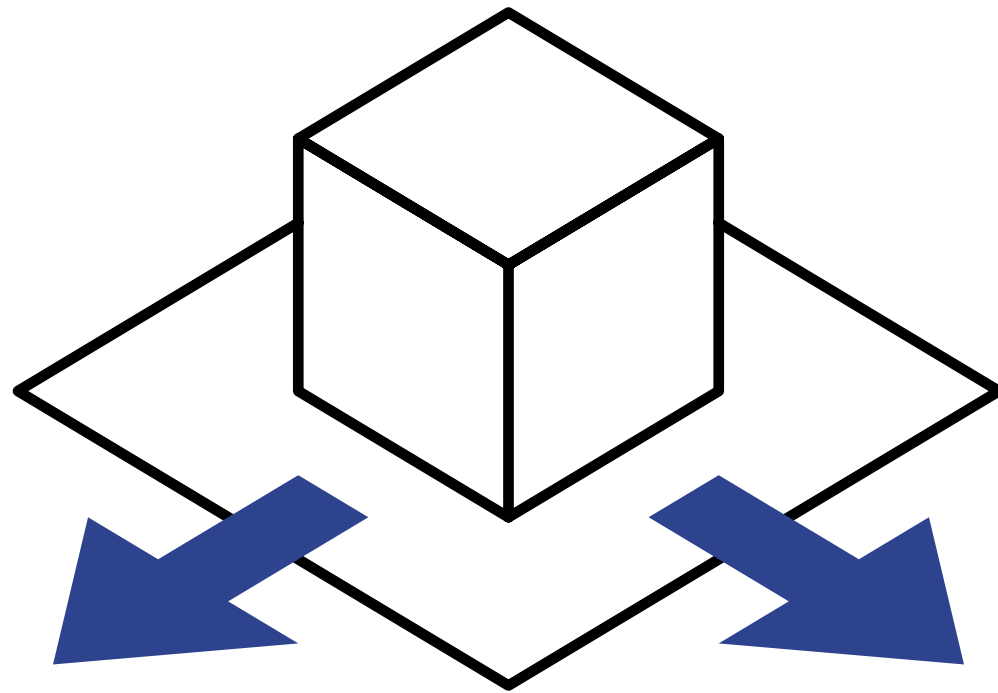
Problem	Solution
Lack of space Informal growth	High-rise Incremental housing

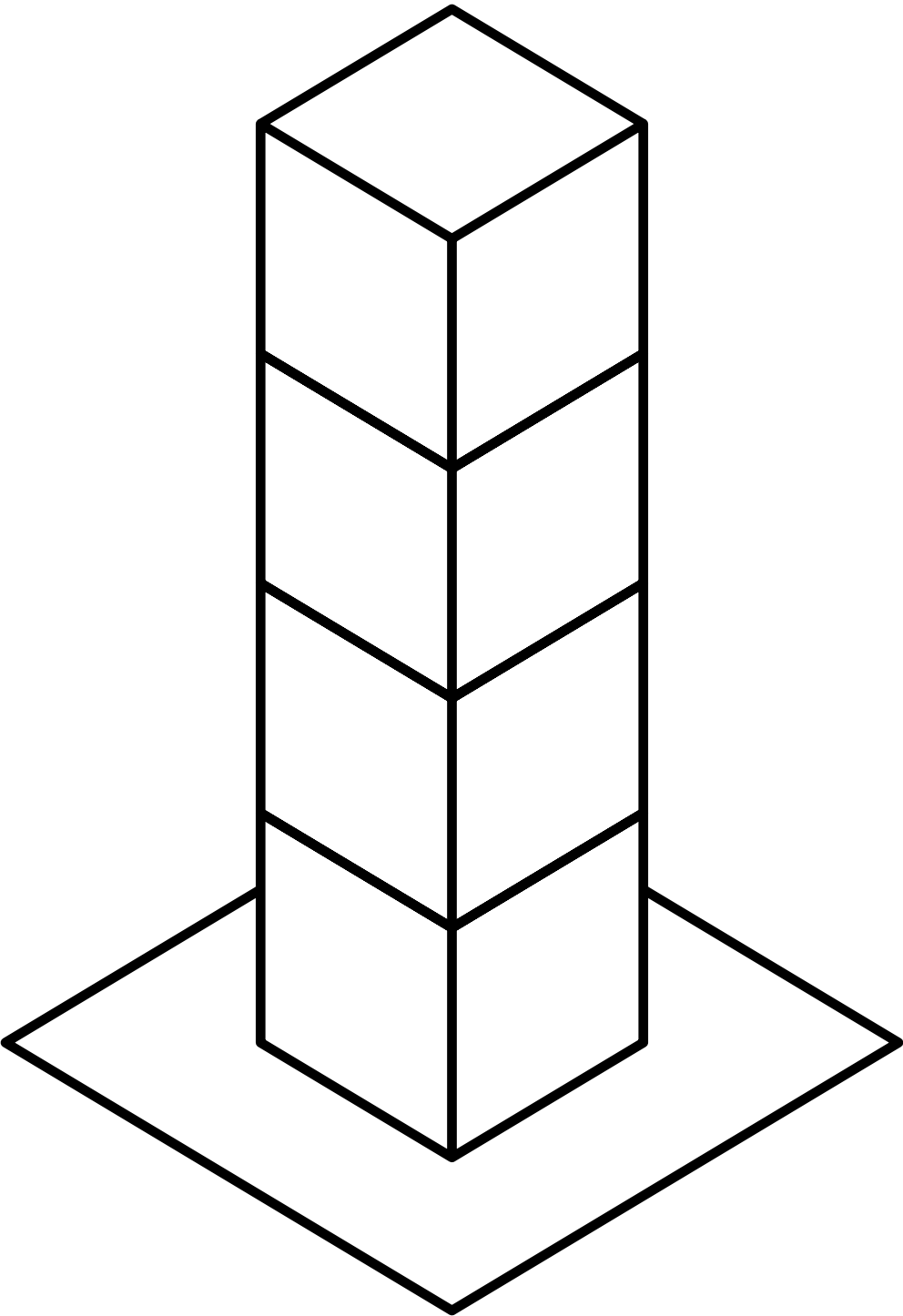
“How can **incremental housing** be integrated in a **high-rise** design for urban areas of Sylhet, Bangladesh?”

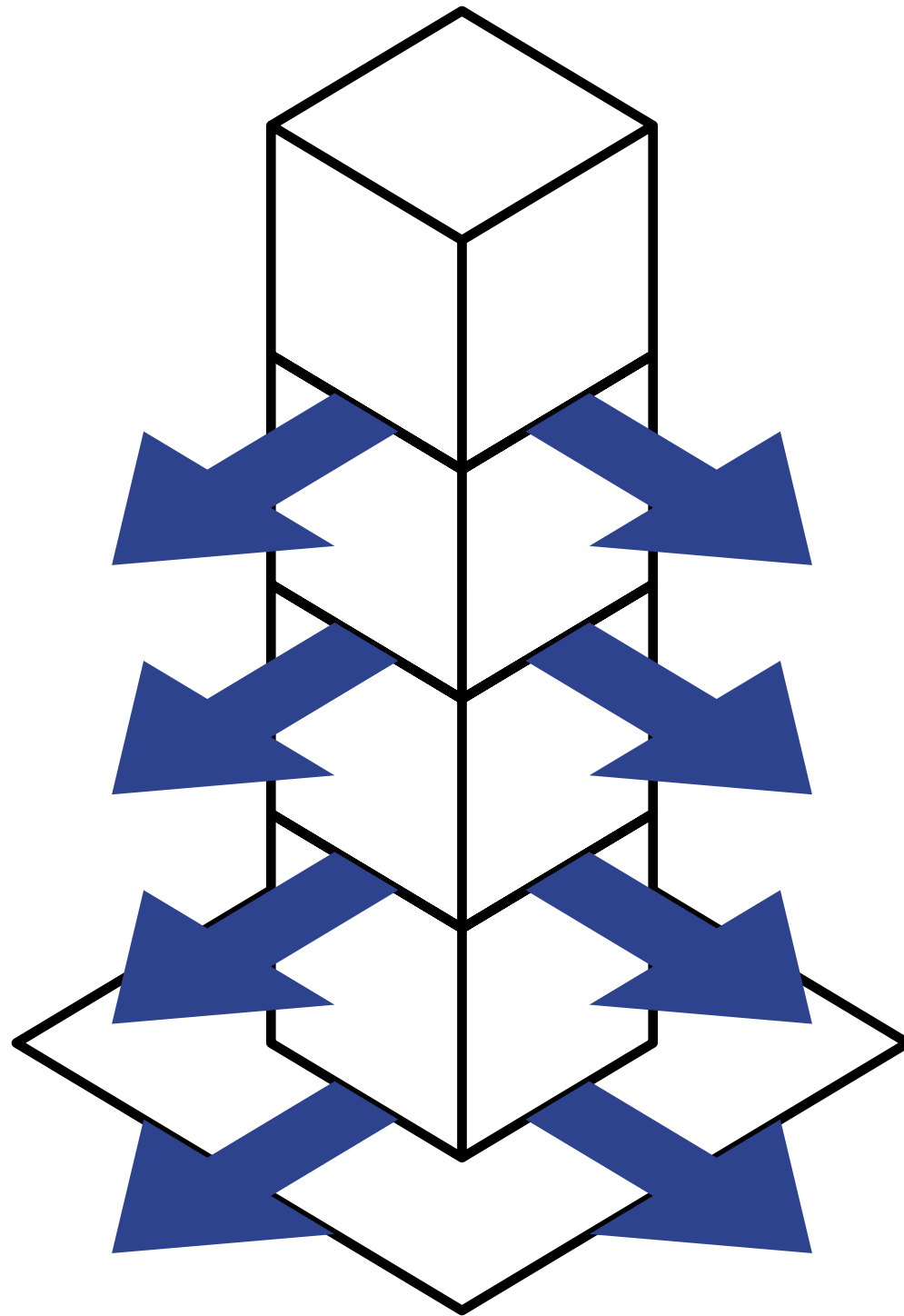
A grayscale photograph of a tropical beach scene. In the foreground, there are large, detailed banana leaves on both the left and right sides. The middle ground shows a sandy beach leading to a small, simple hut with a thatched roof, partially obscured by dense tropical vegetation and palm trees. The background is filled with more trees and foliage, with a bright sky visible through the canopy.

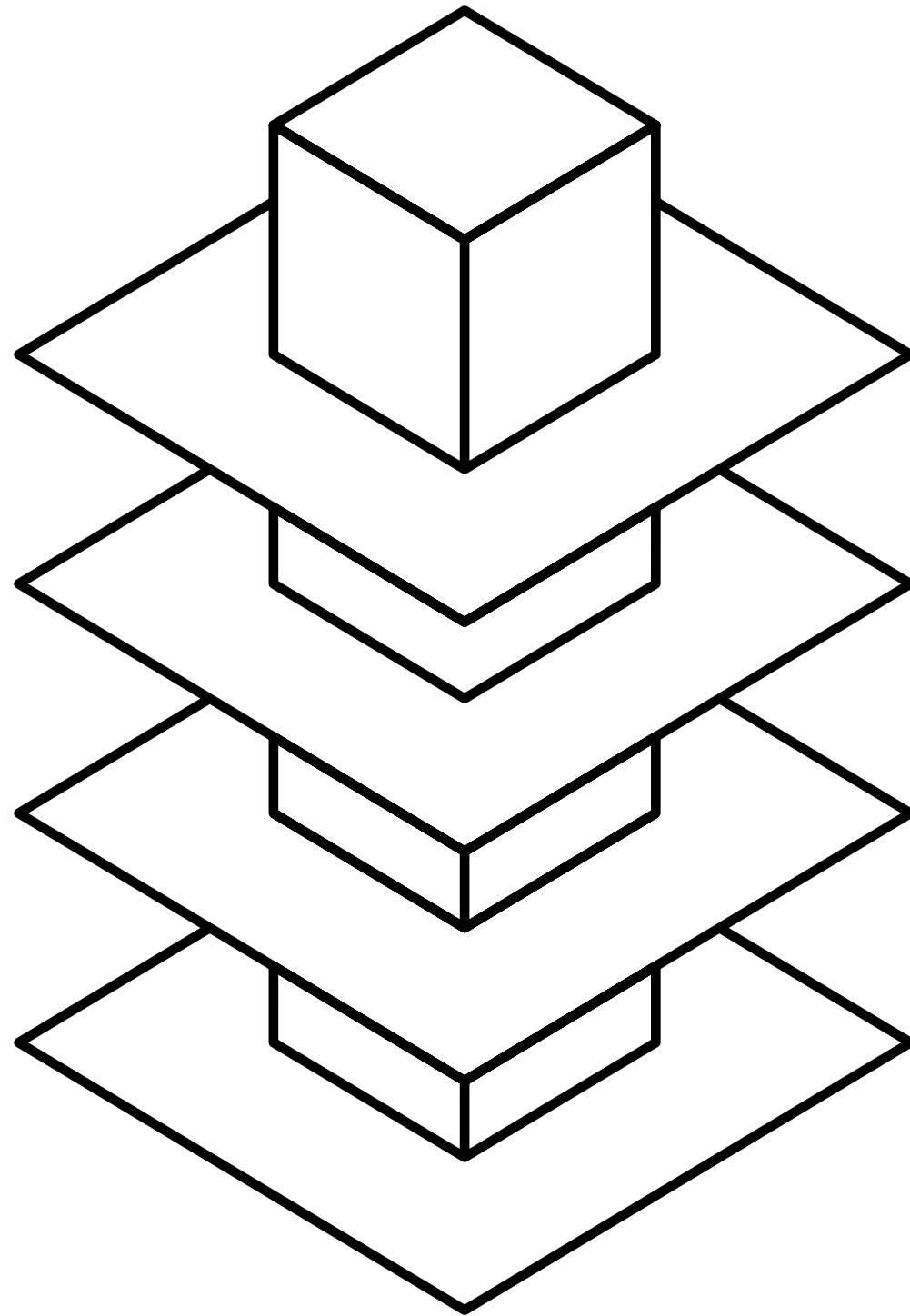
THE CONCEPT

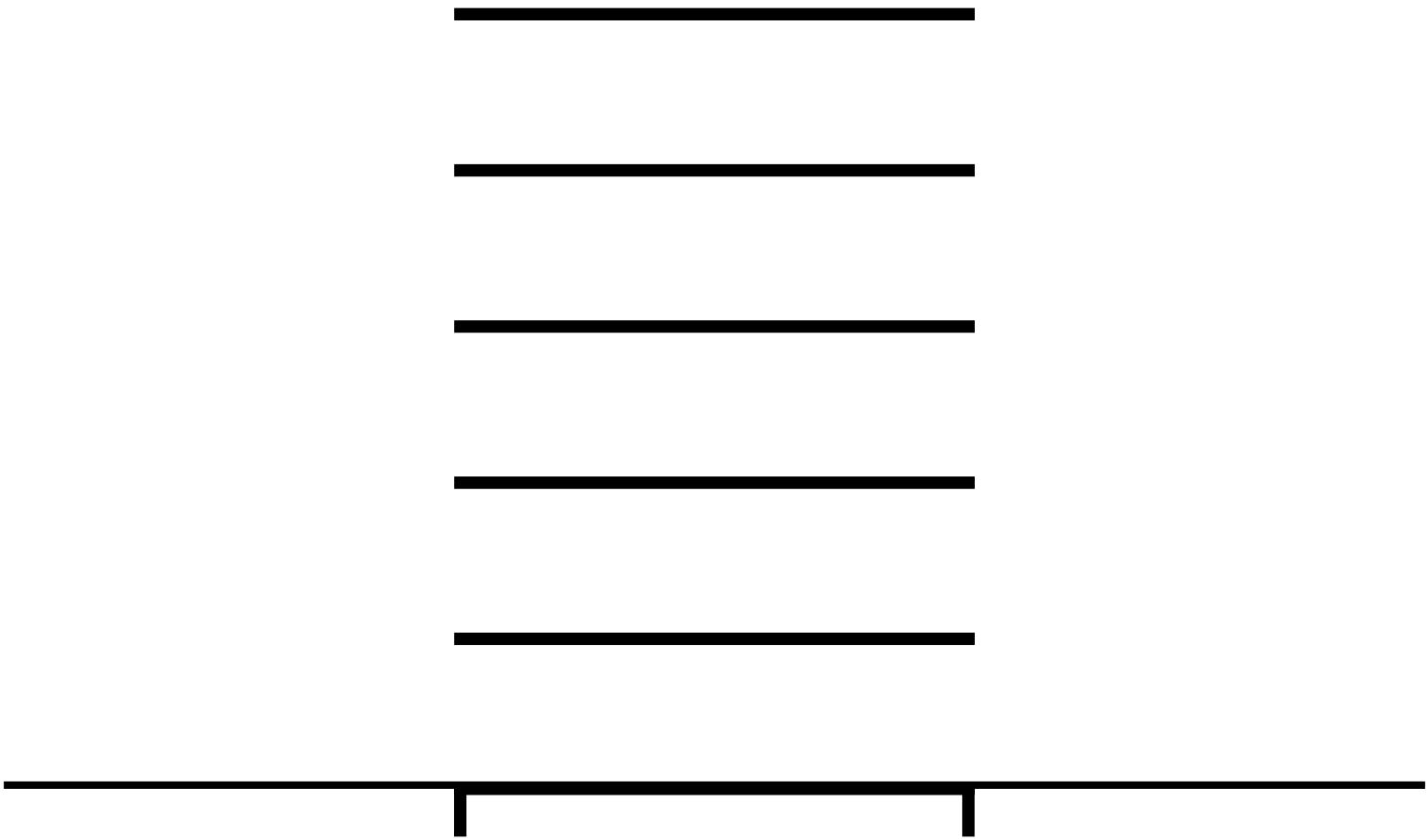


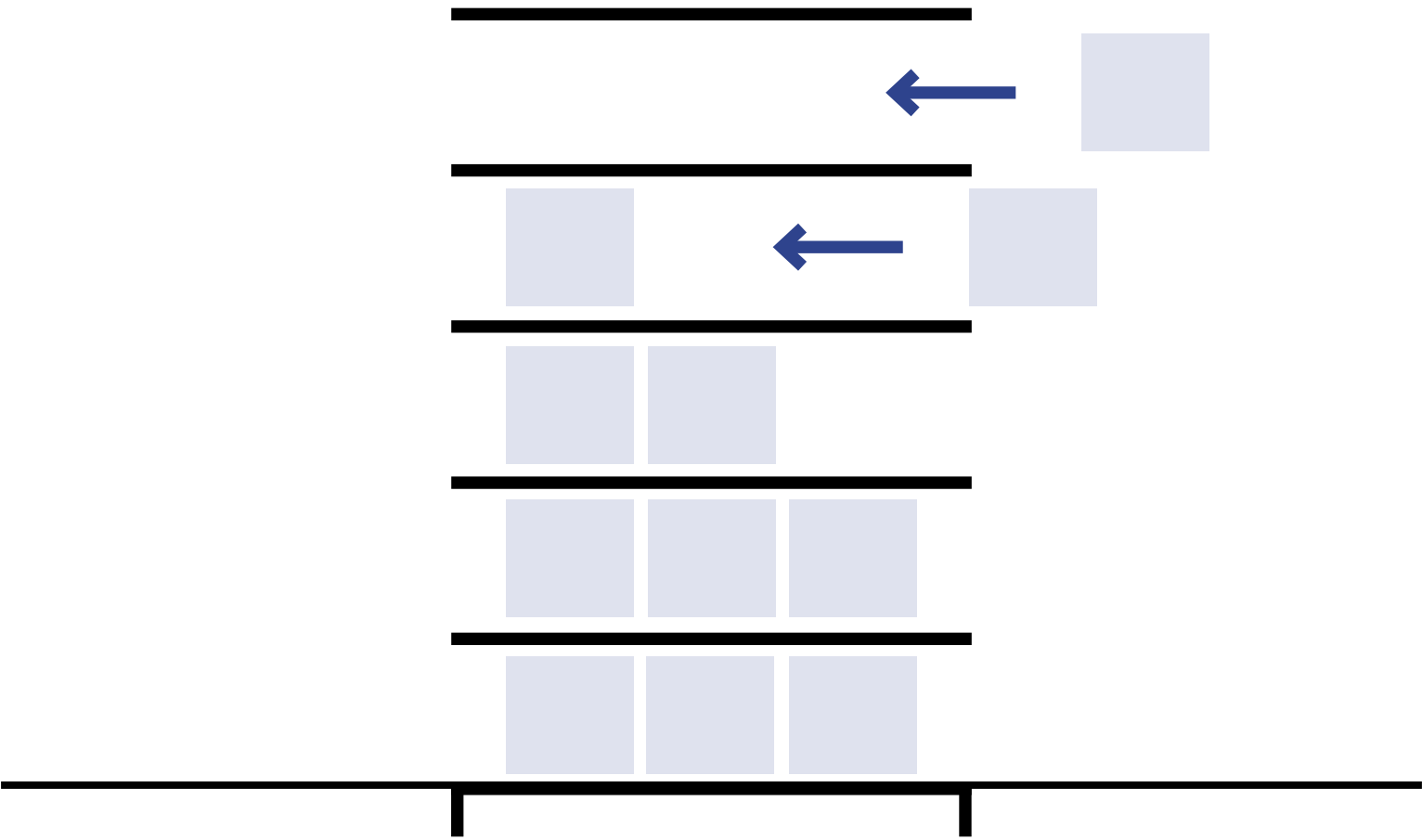












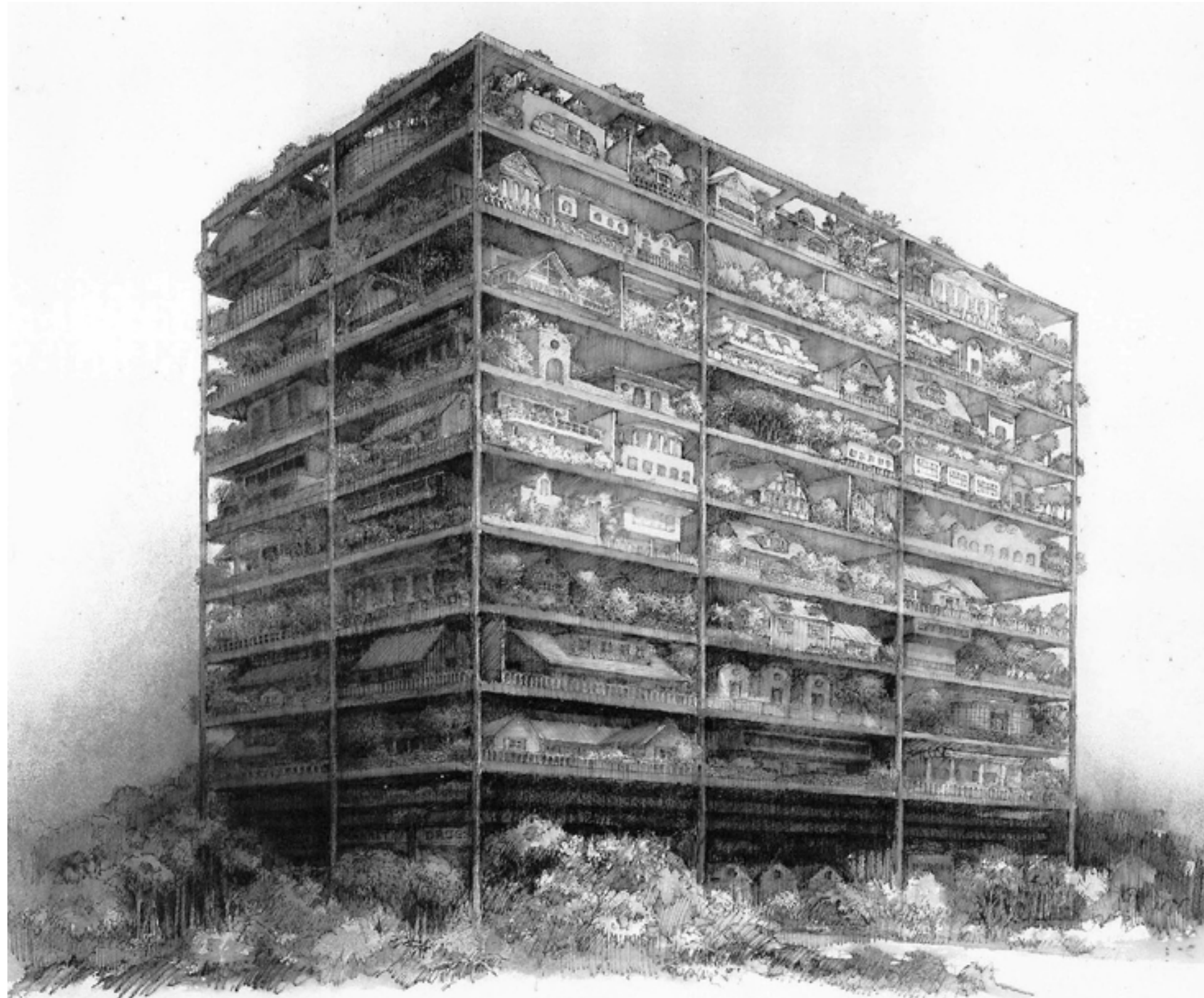
Incremental housing

Incremental housing

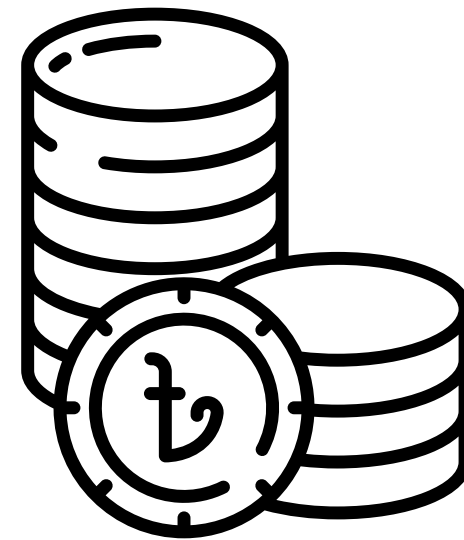
Infill housing

~~Incremental housing~~

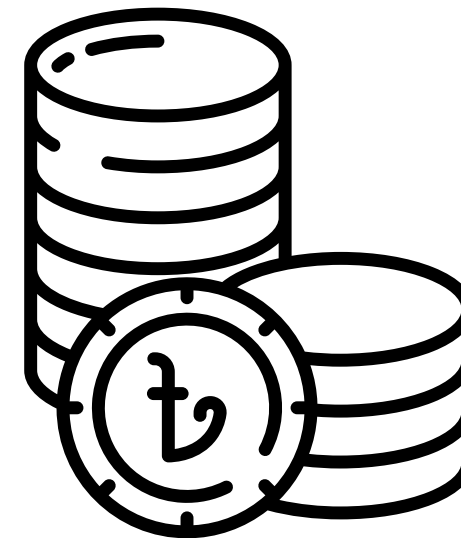
~~Infill housing~~



SITE (n.d.). *Highrise of Homes*; For location in a major American city.
<https://sitenewyork.com/portfolio-1-1/project-one-st6pn-2zj53-n3axs-z6tbr-flywe>

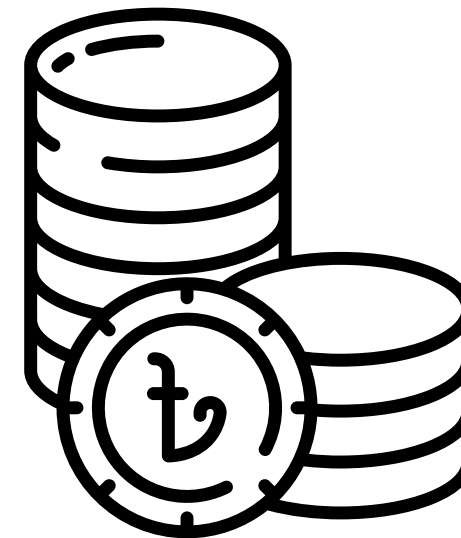


Structure



Structure

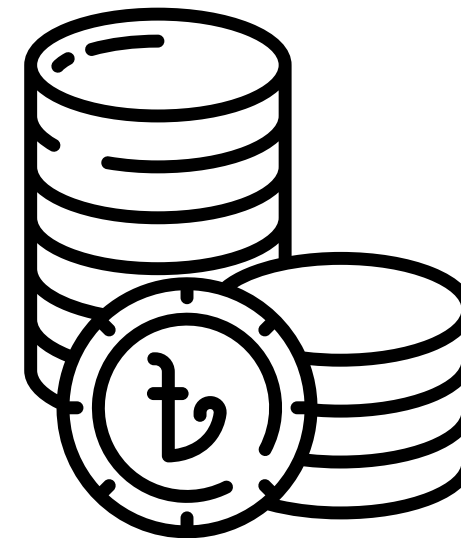
Services



Structure

Services

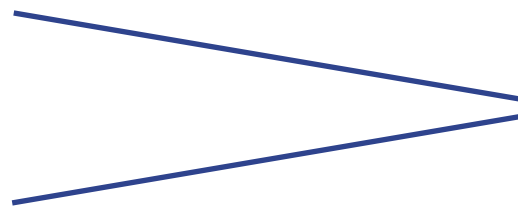
Circulation



Structure

Services

Circulation



Cross-subsidisation

Low income segment
(incremental housing)

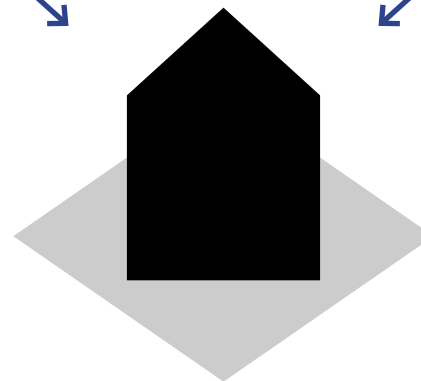
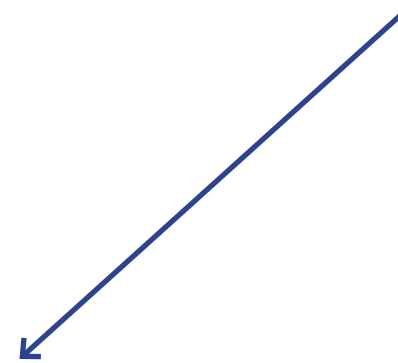
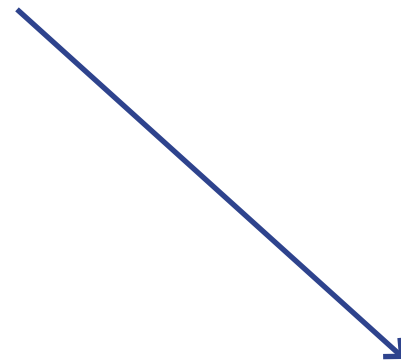


Middle to high income
housing segment



Low income segment
(incremental housing)

Middle to high income
housing segment

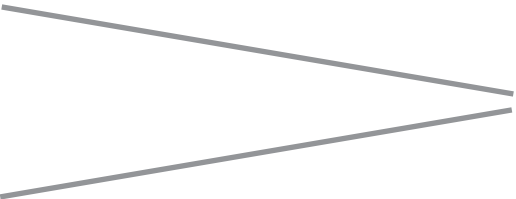


Combined design
(Cross-subsidized)

Structure

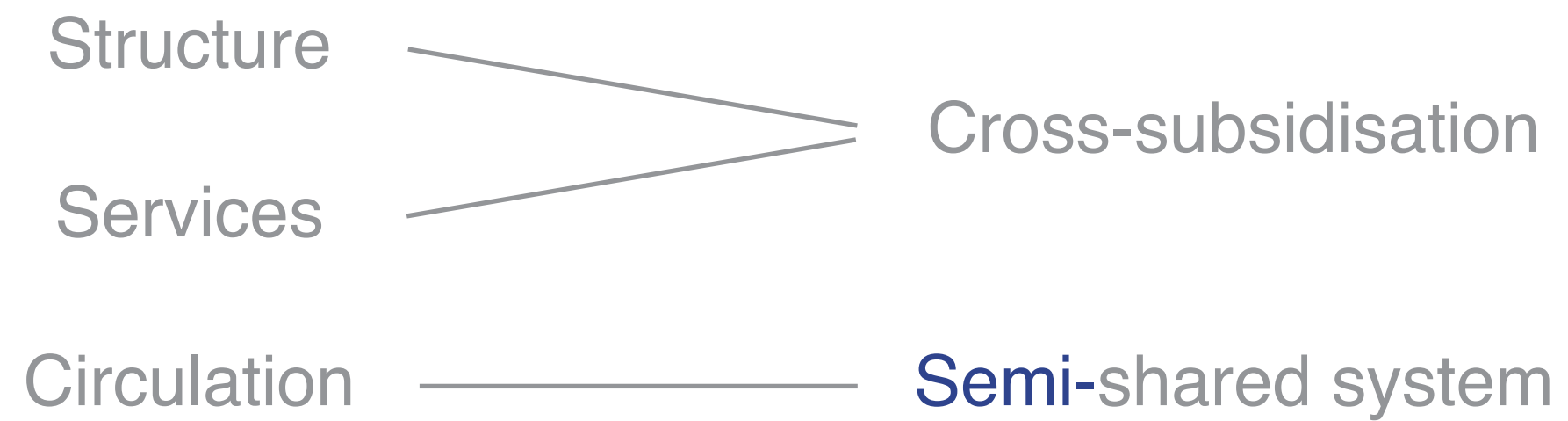
Services

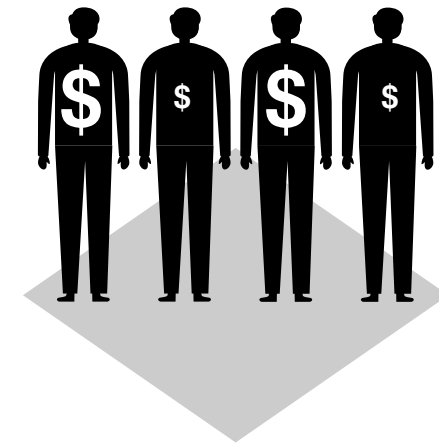
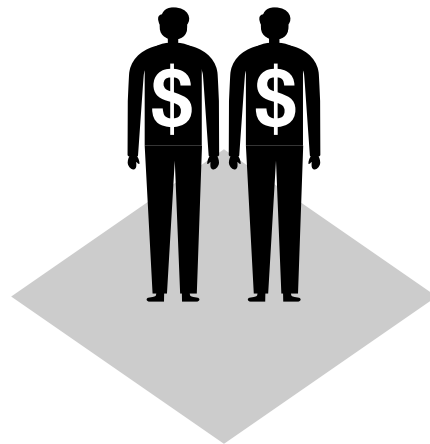
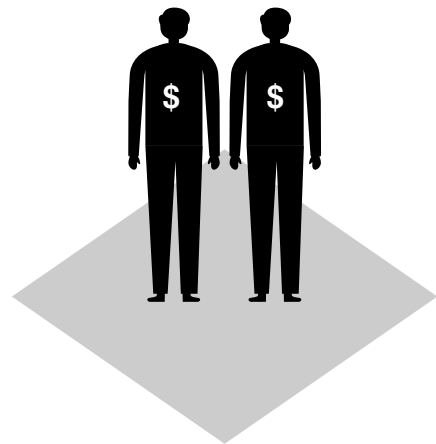
Circulation



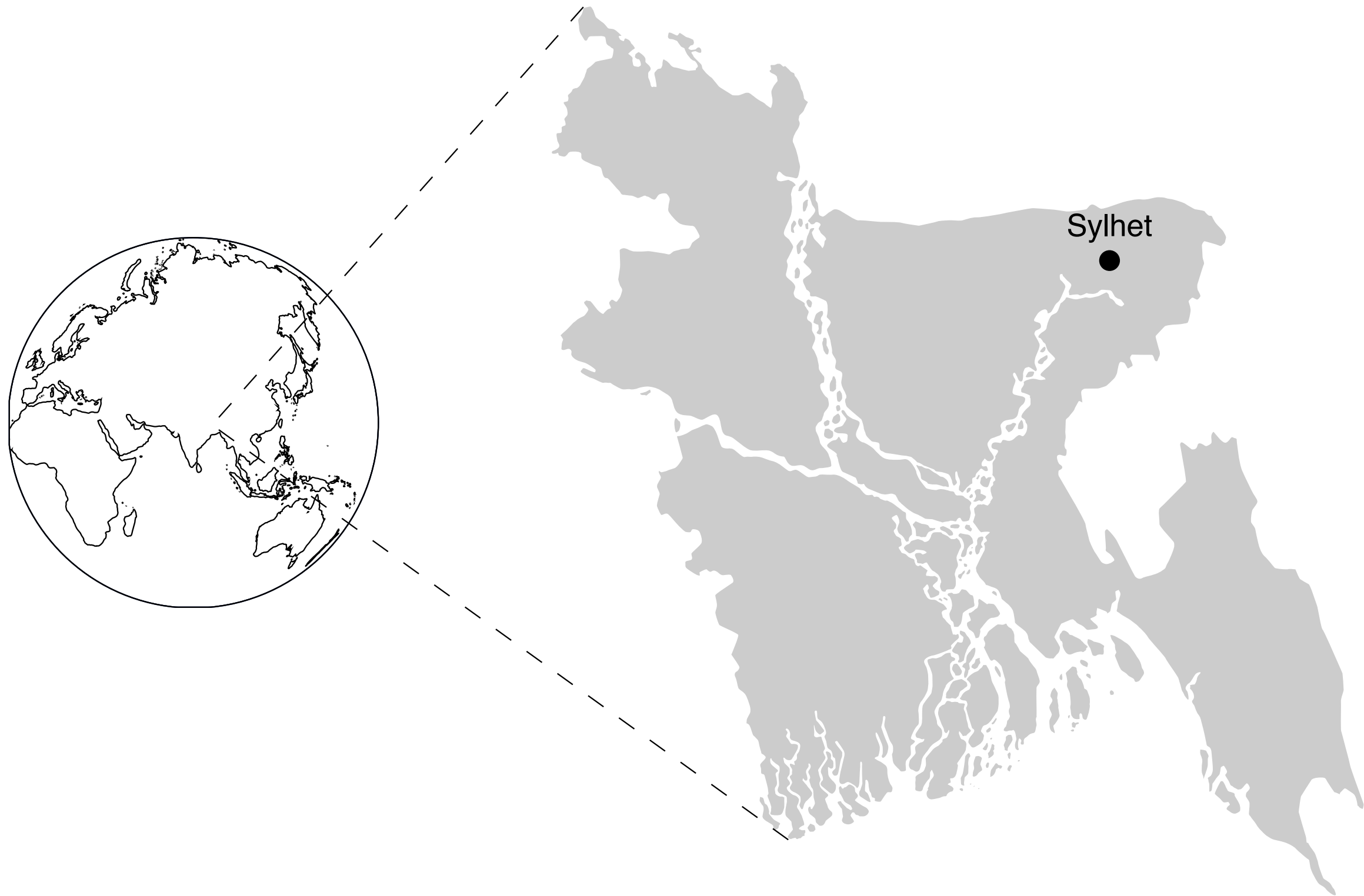
Cross-subsidisation

Shared system



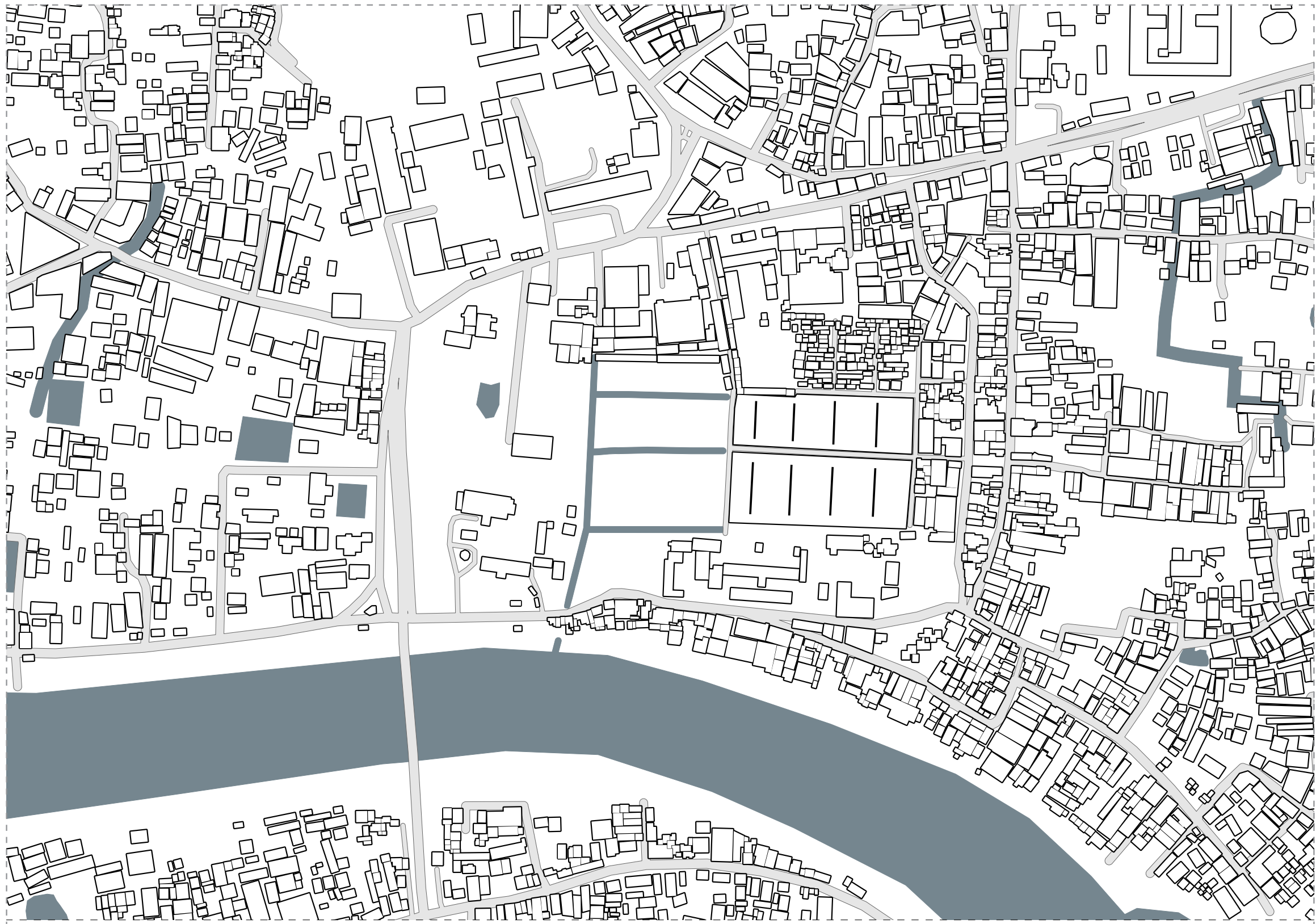


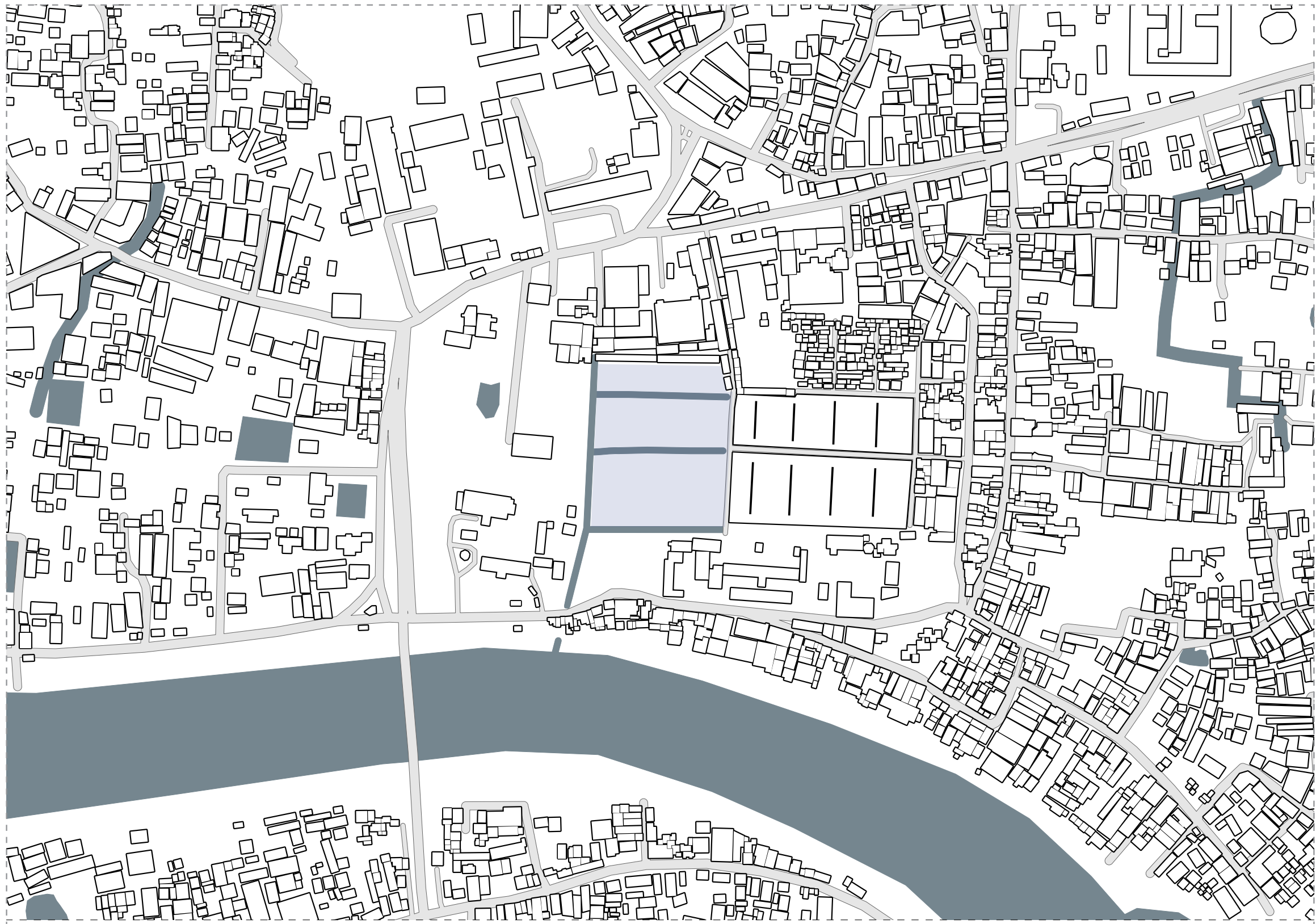
SITE & MASTERPLAN



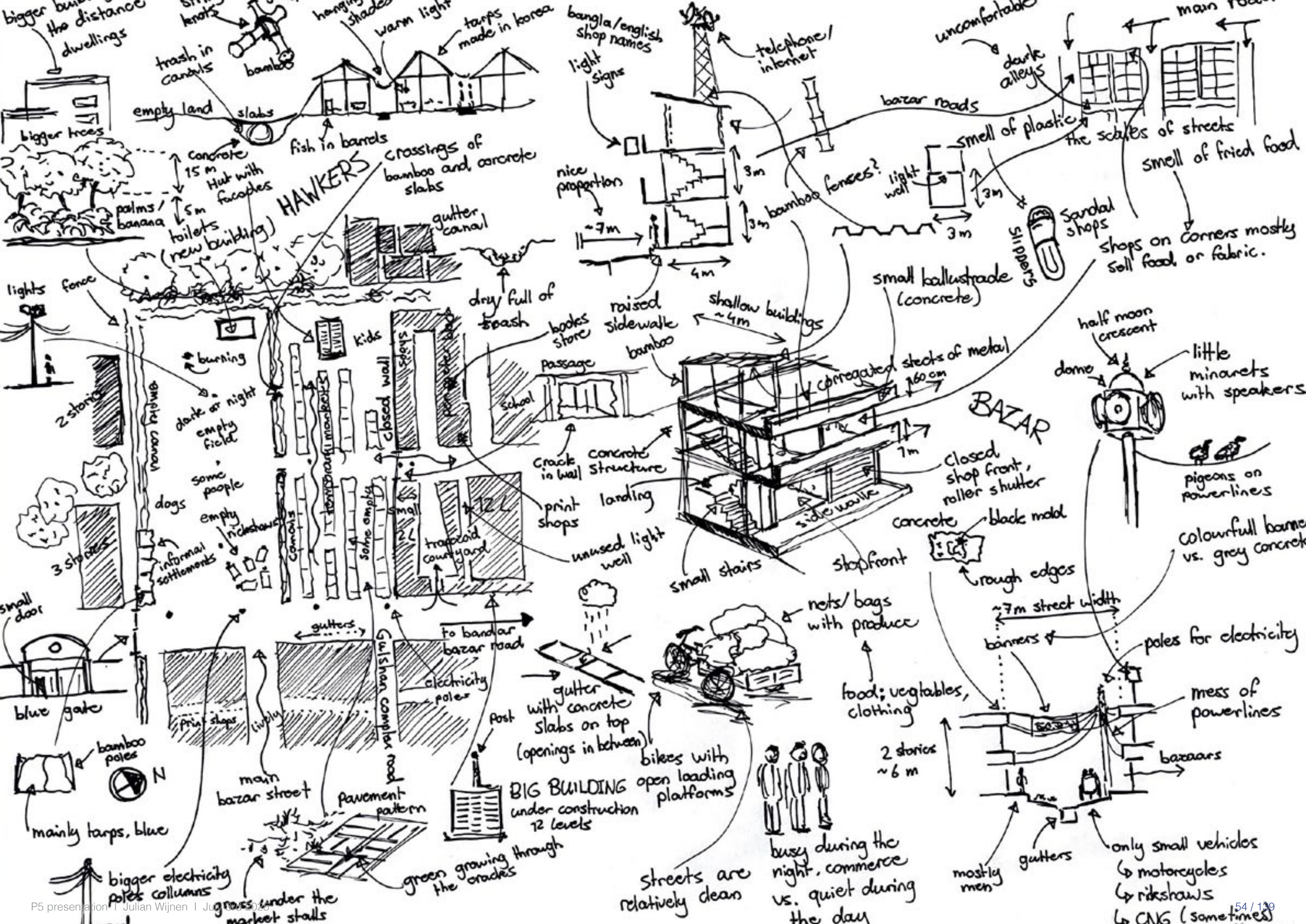








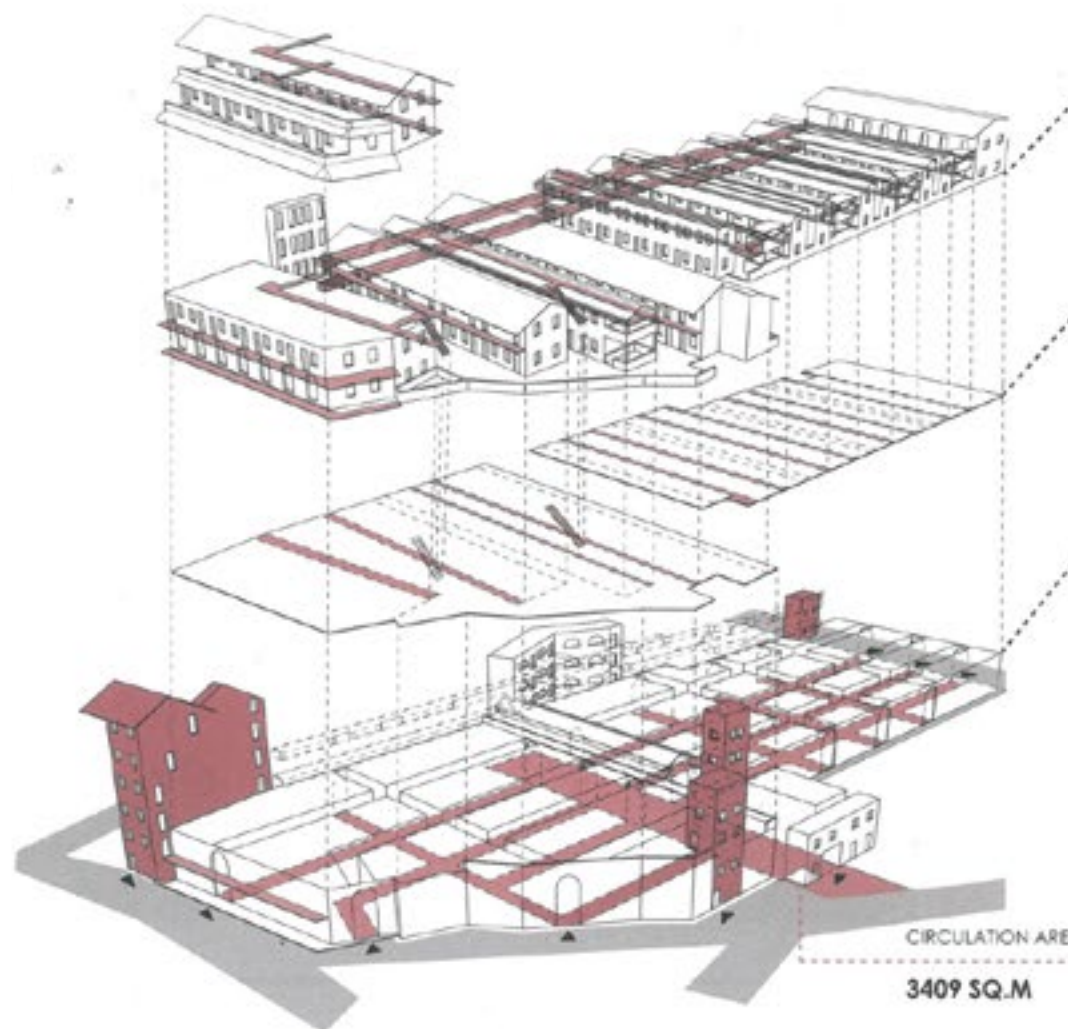
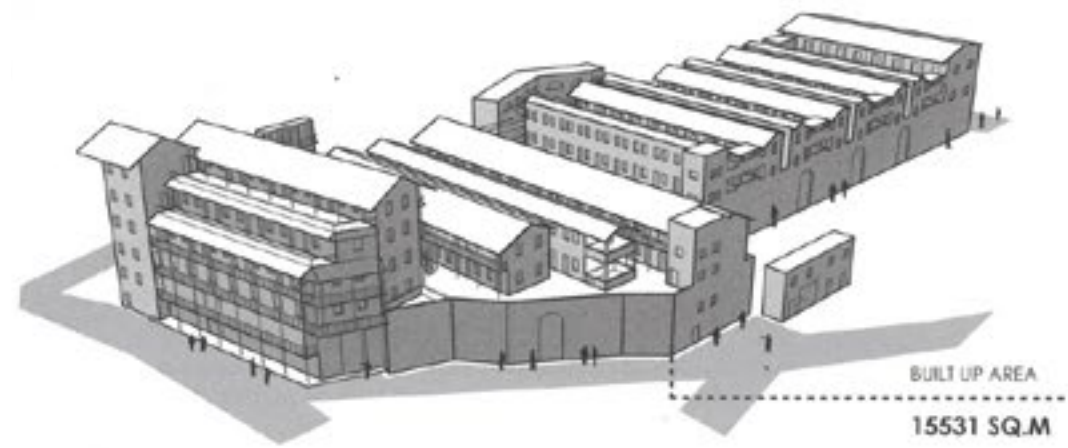






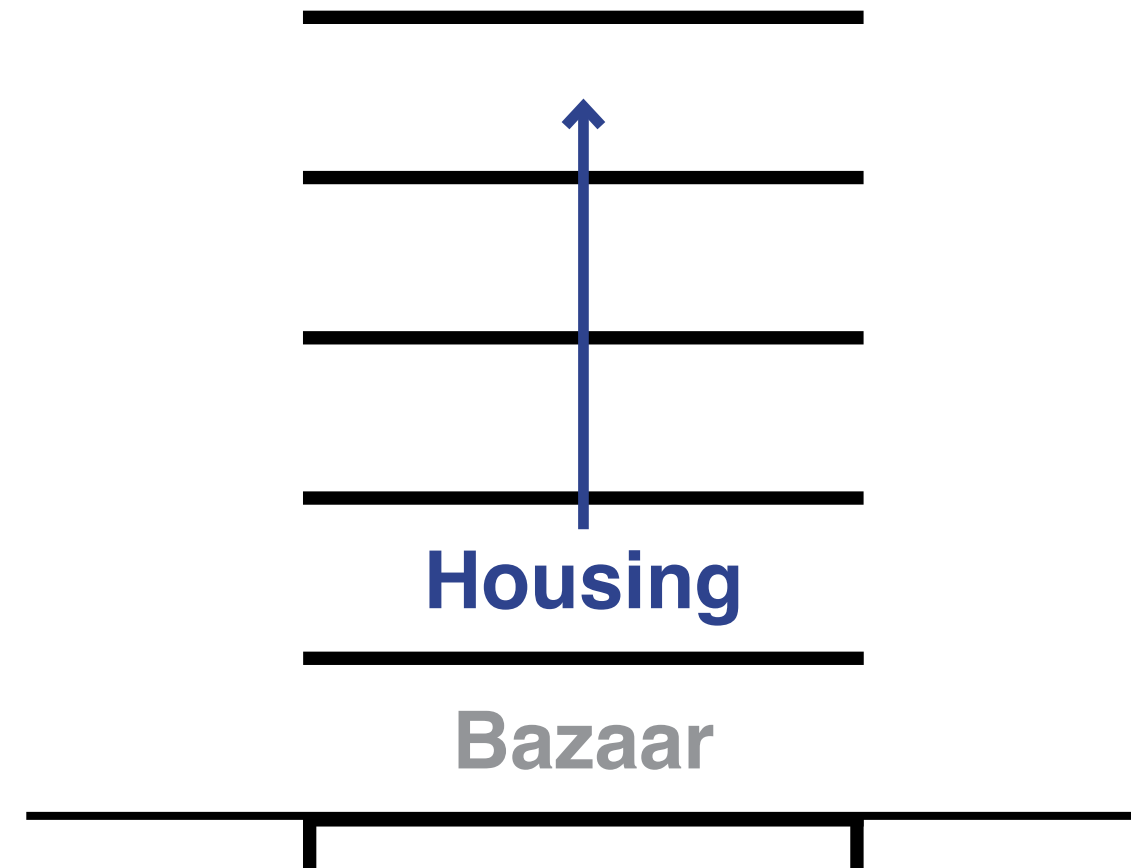
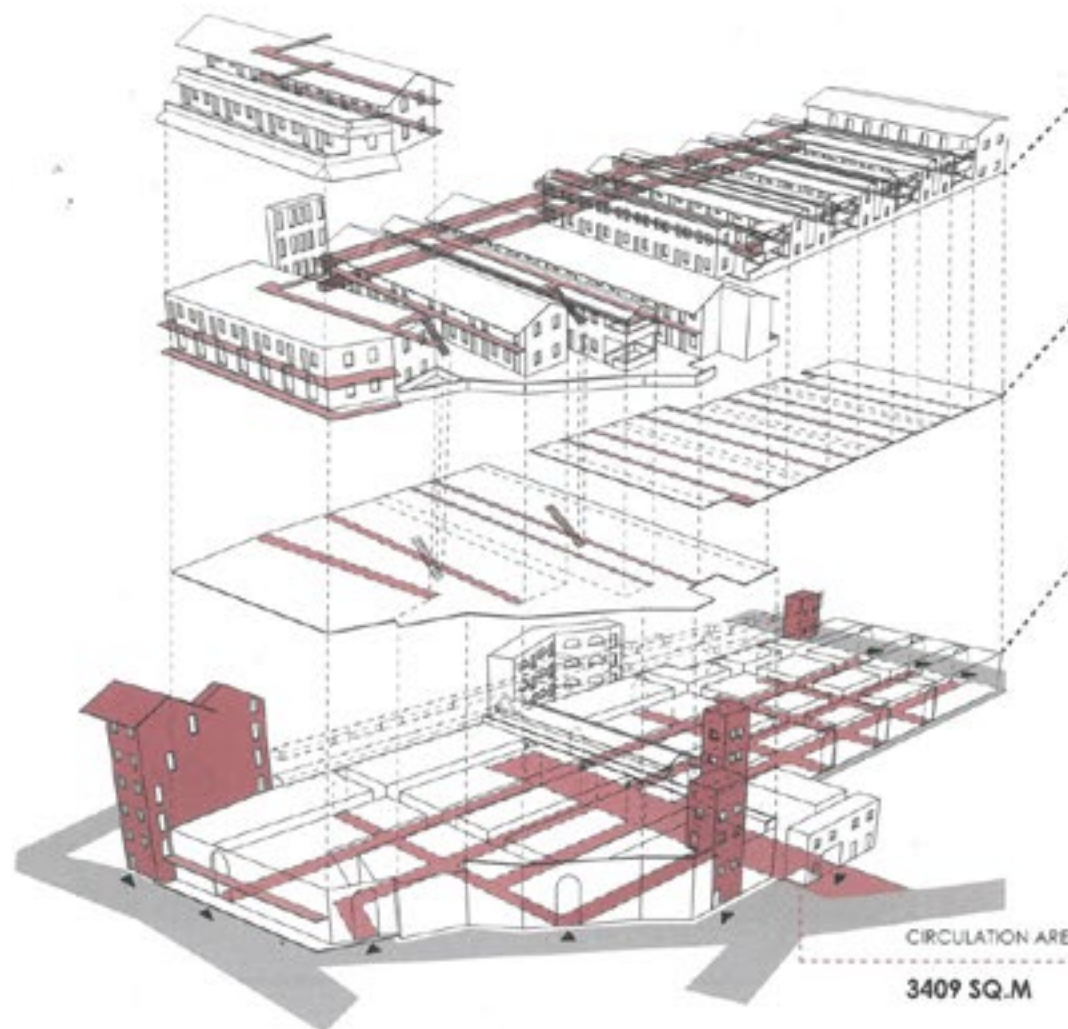
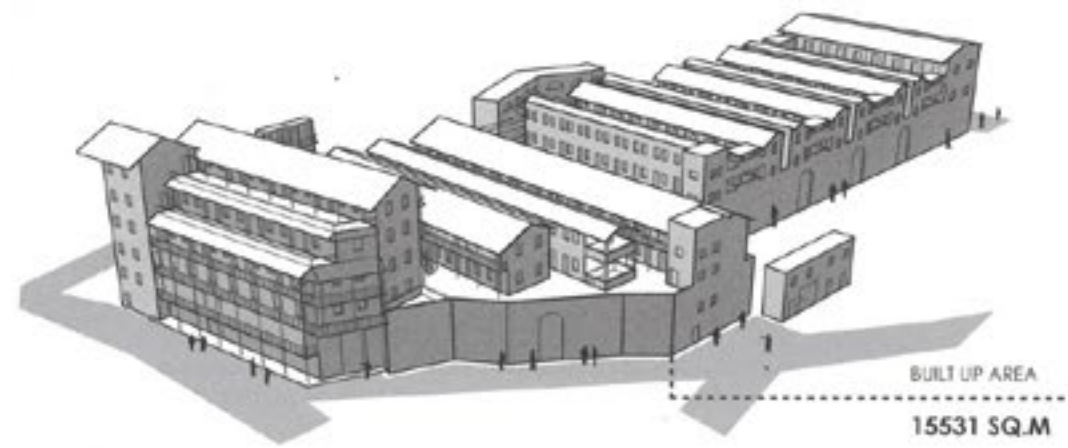


“...urban markets are a public space at the heart of communities.” (Rahman et al., 2016)



Left Image: Swadeshi Market Chawl, Padora S. (2020). "How To Build An Indian House, The Mumbai Example". NAI010 Puplicshers.

Right Image: Laldighi Hawkers Market bazaar street, image by Julian Wijnen

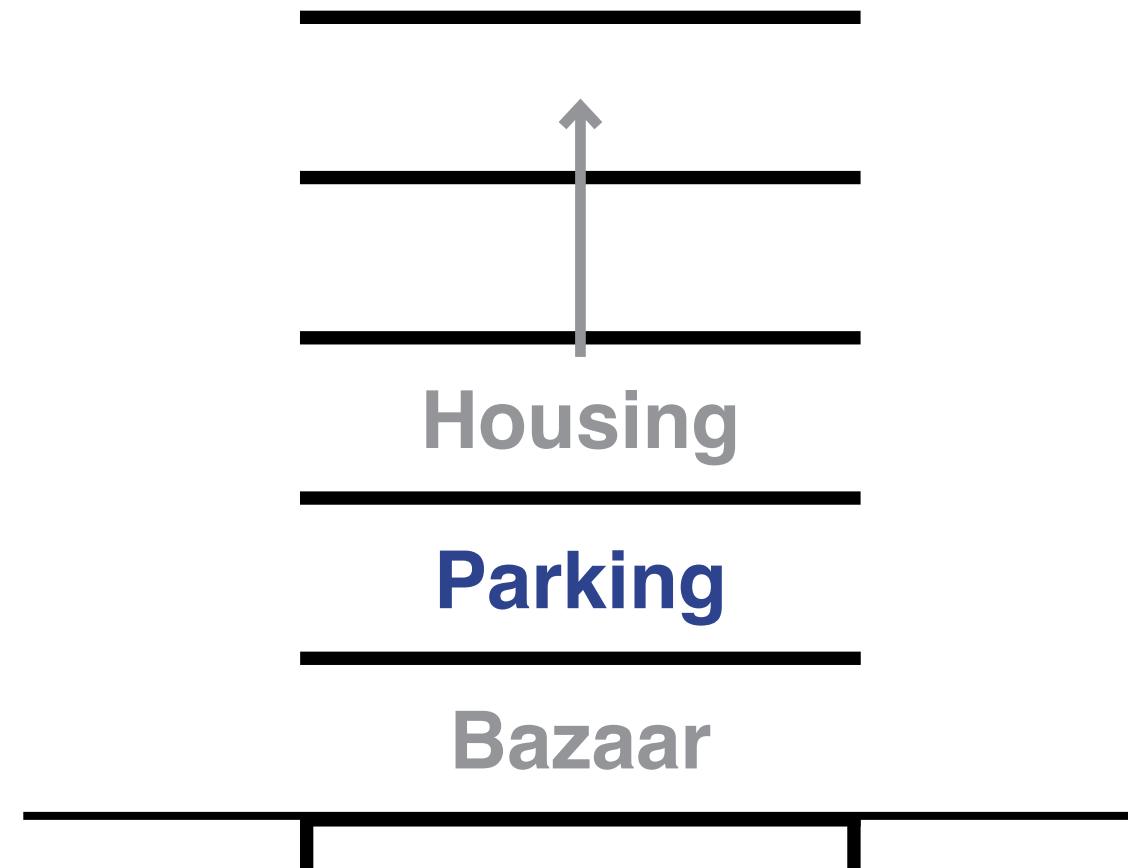


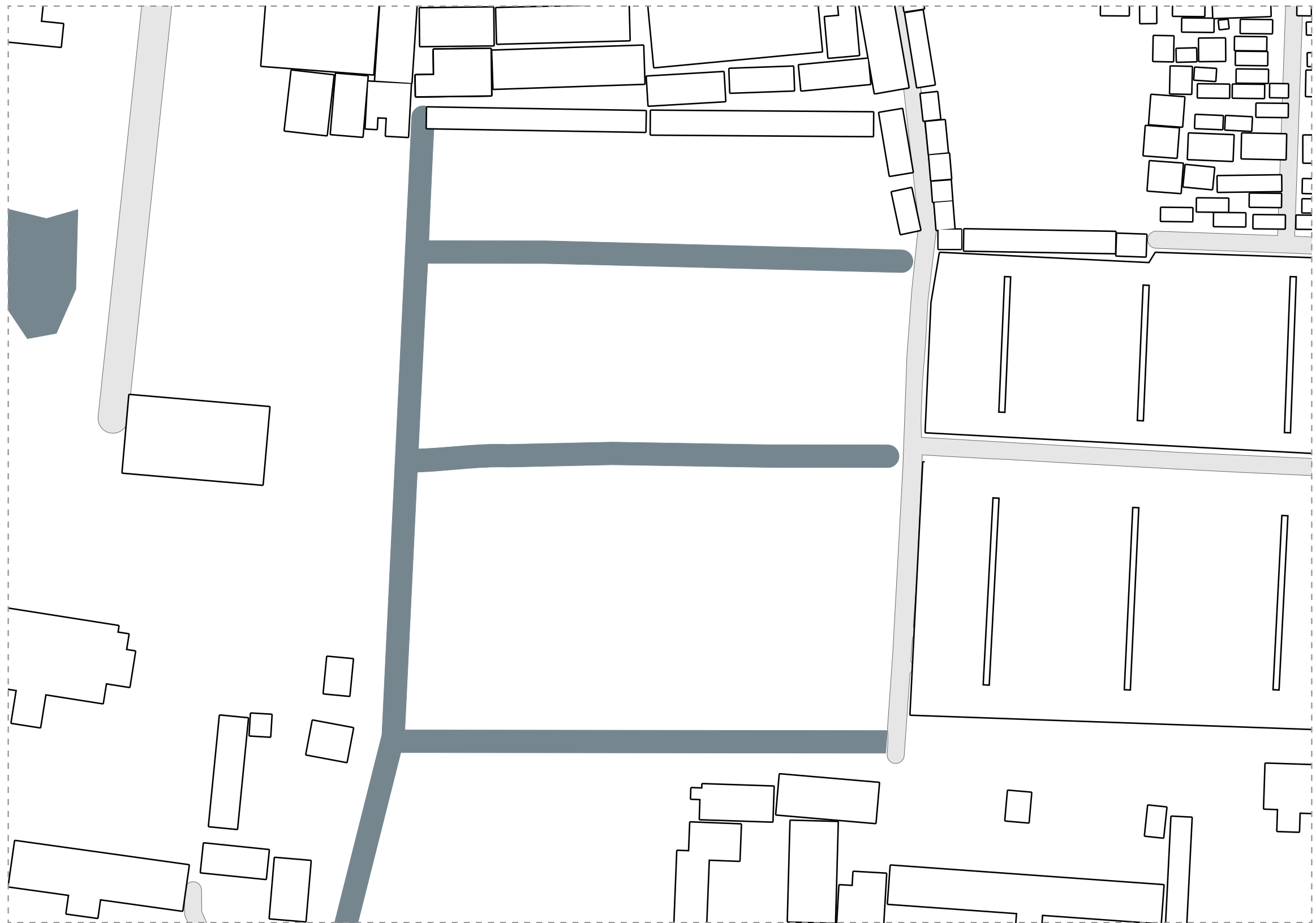


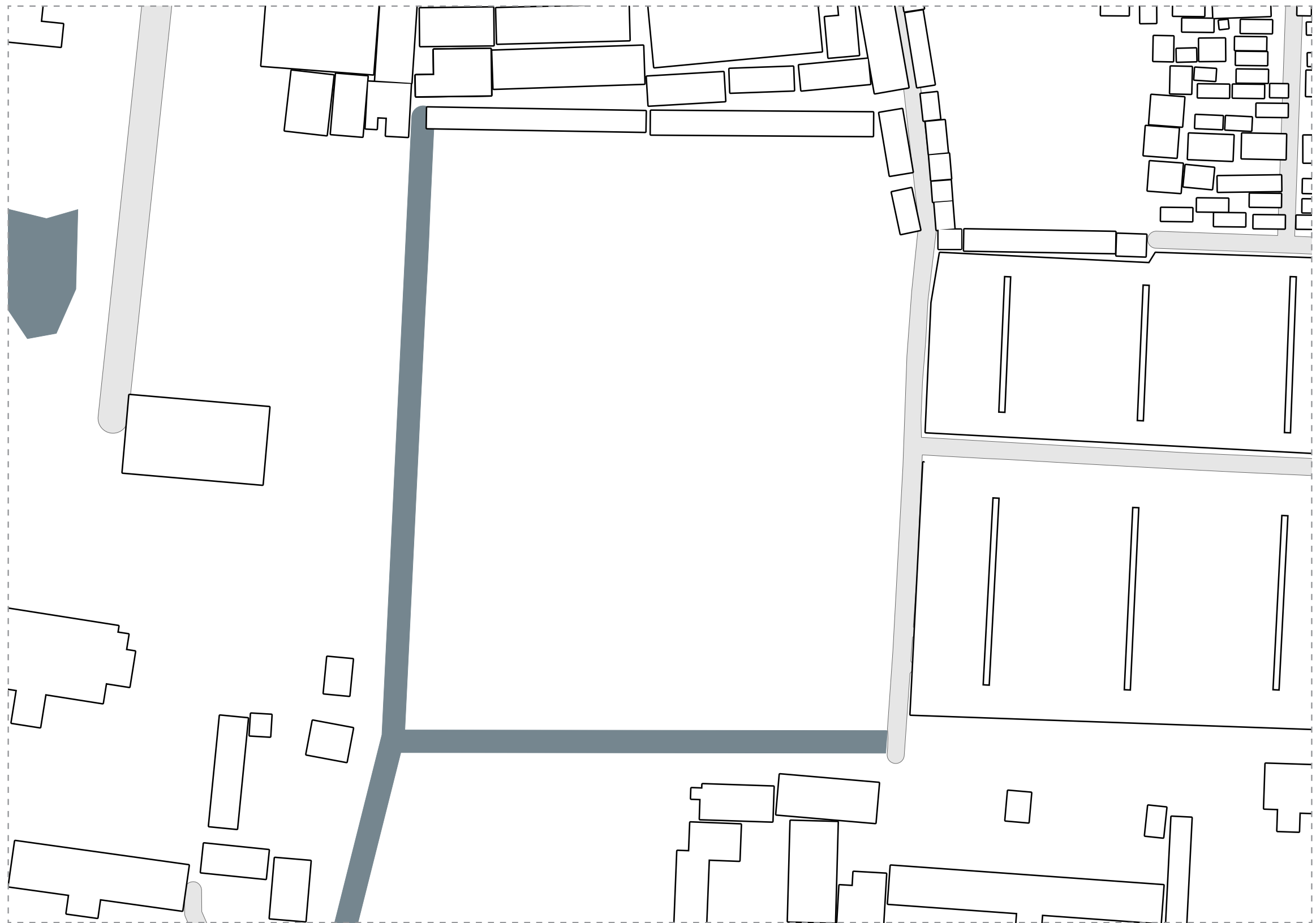
cars per household = 1 to 2

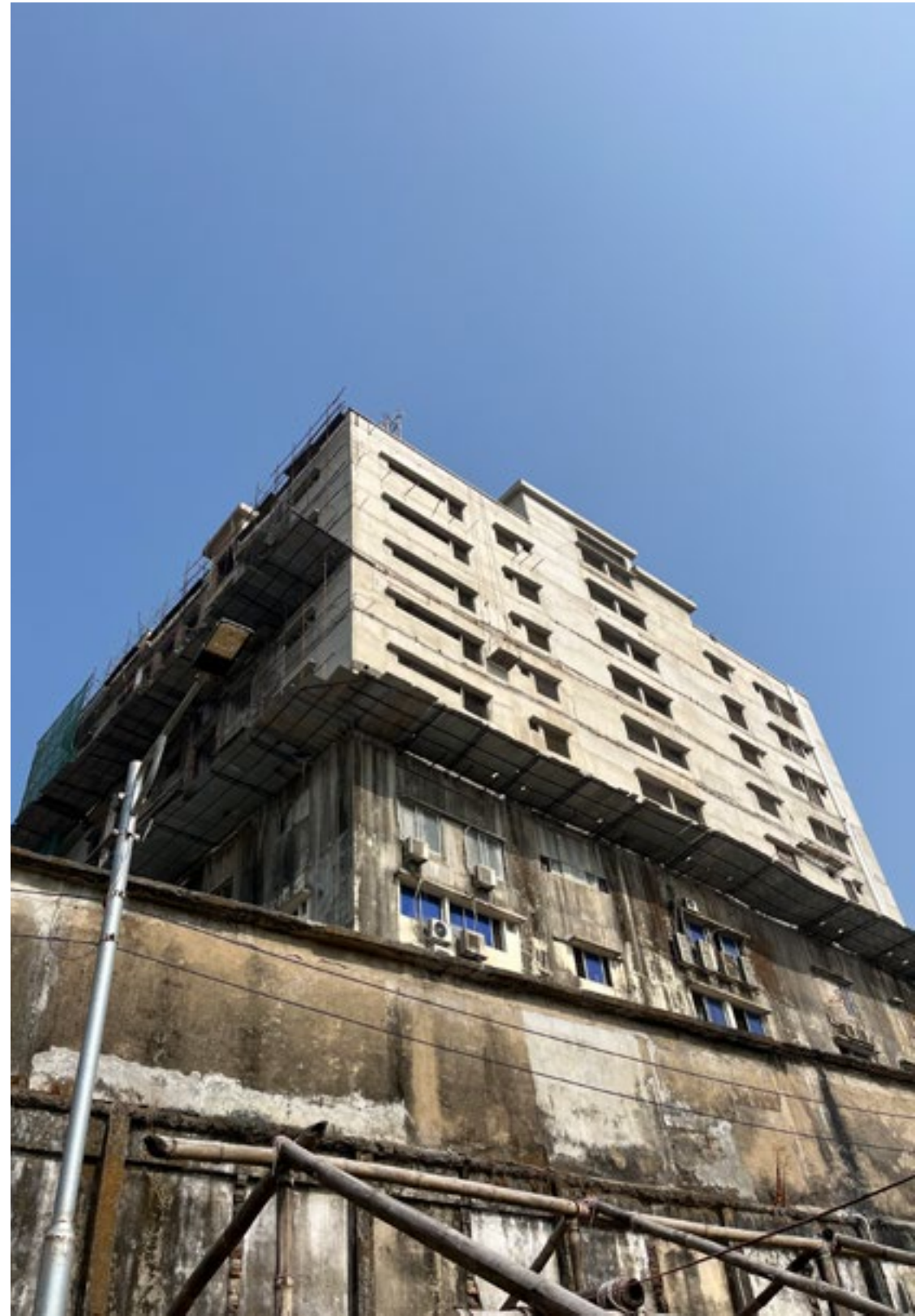


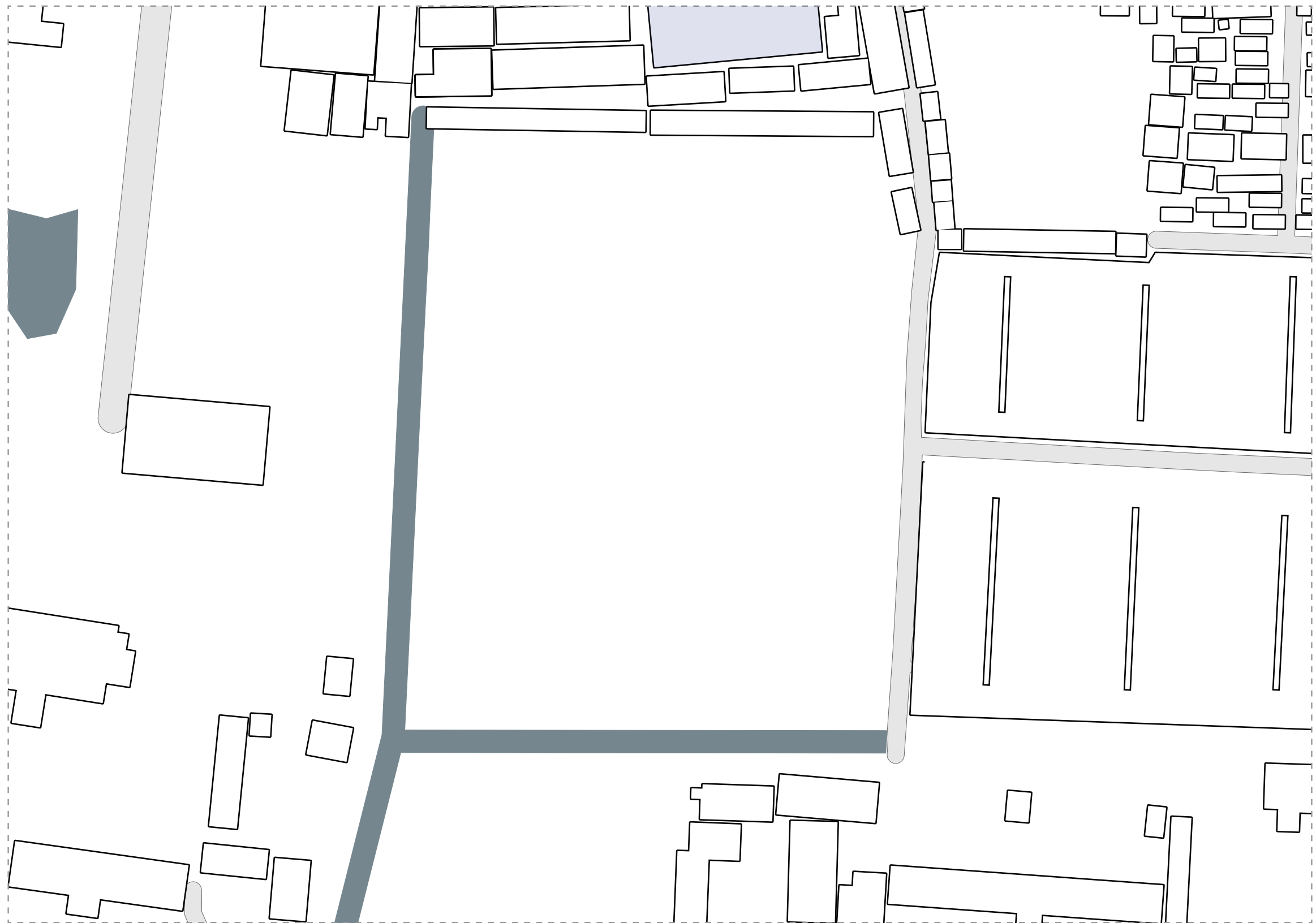
parking norm = 1.5

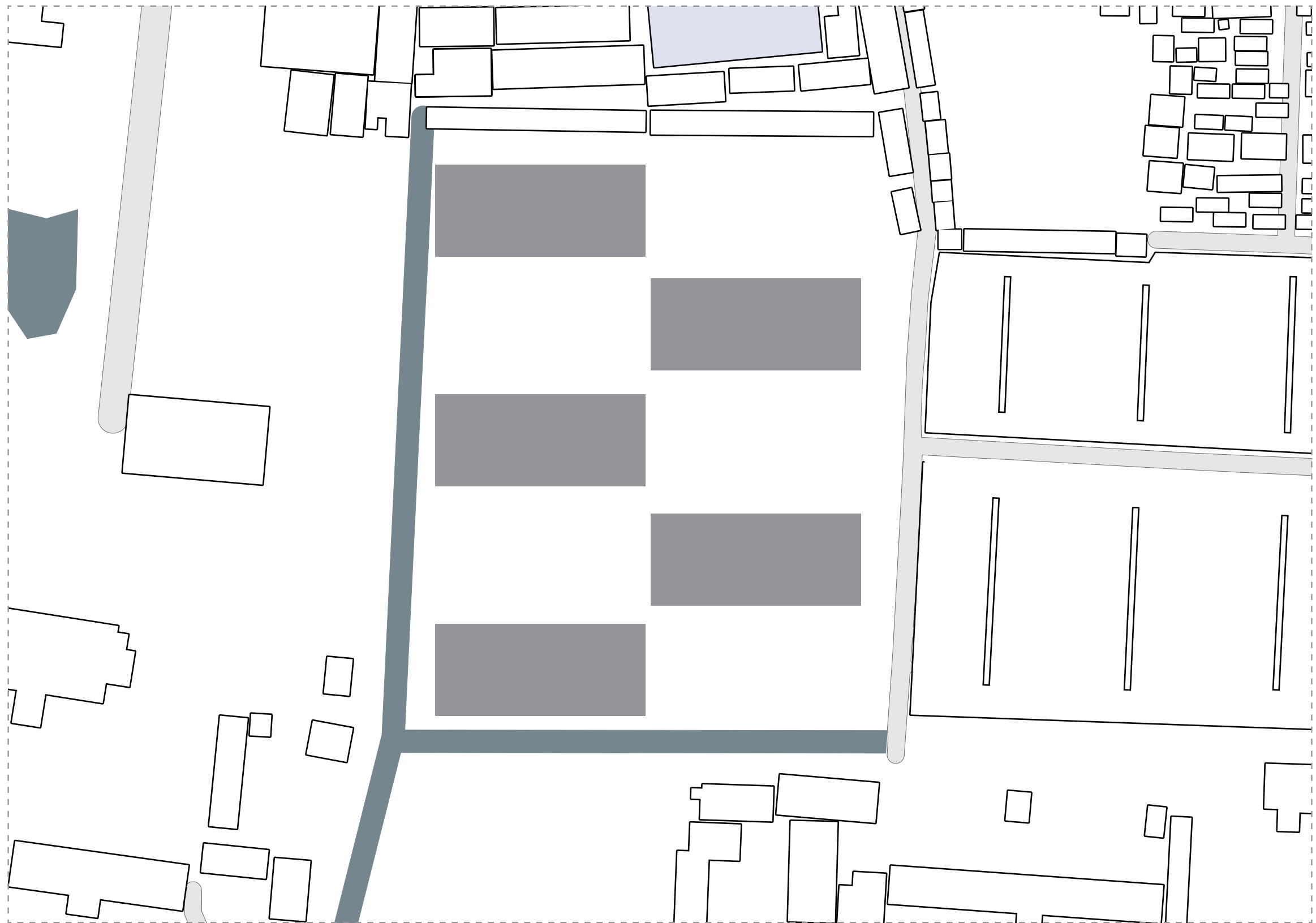


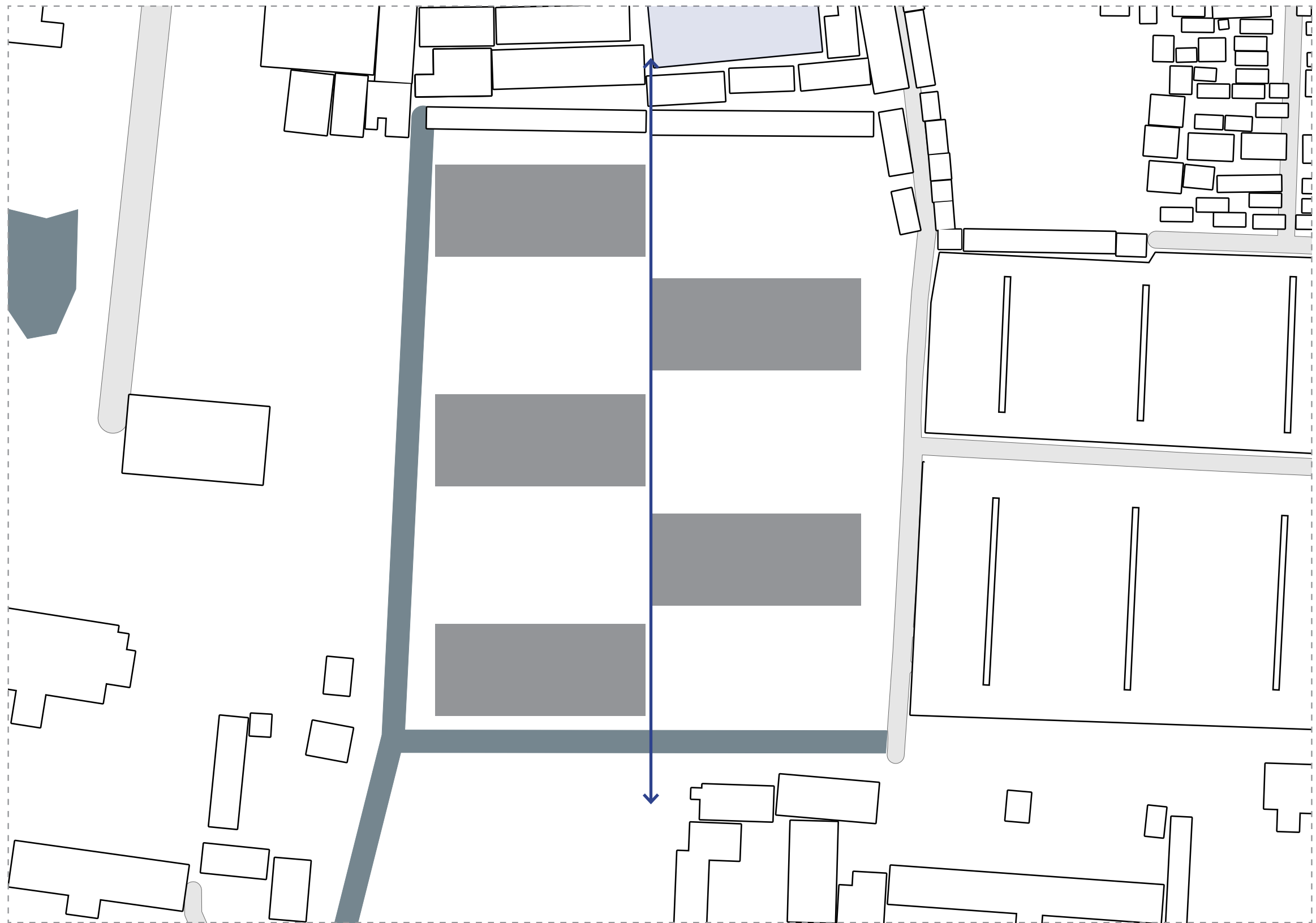




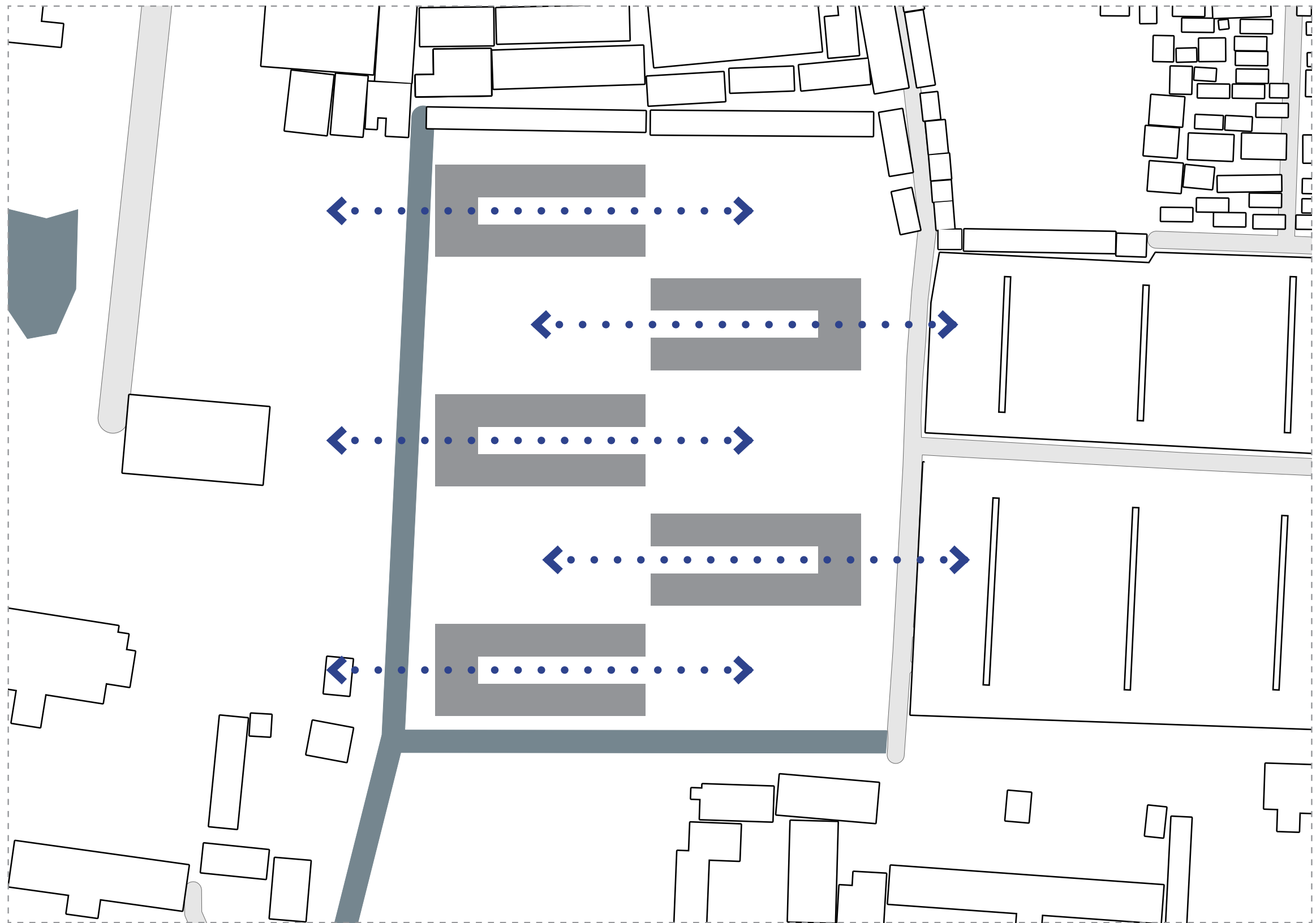


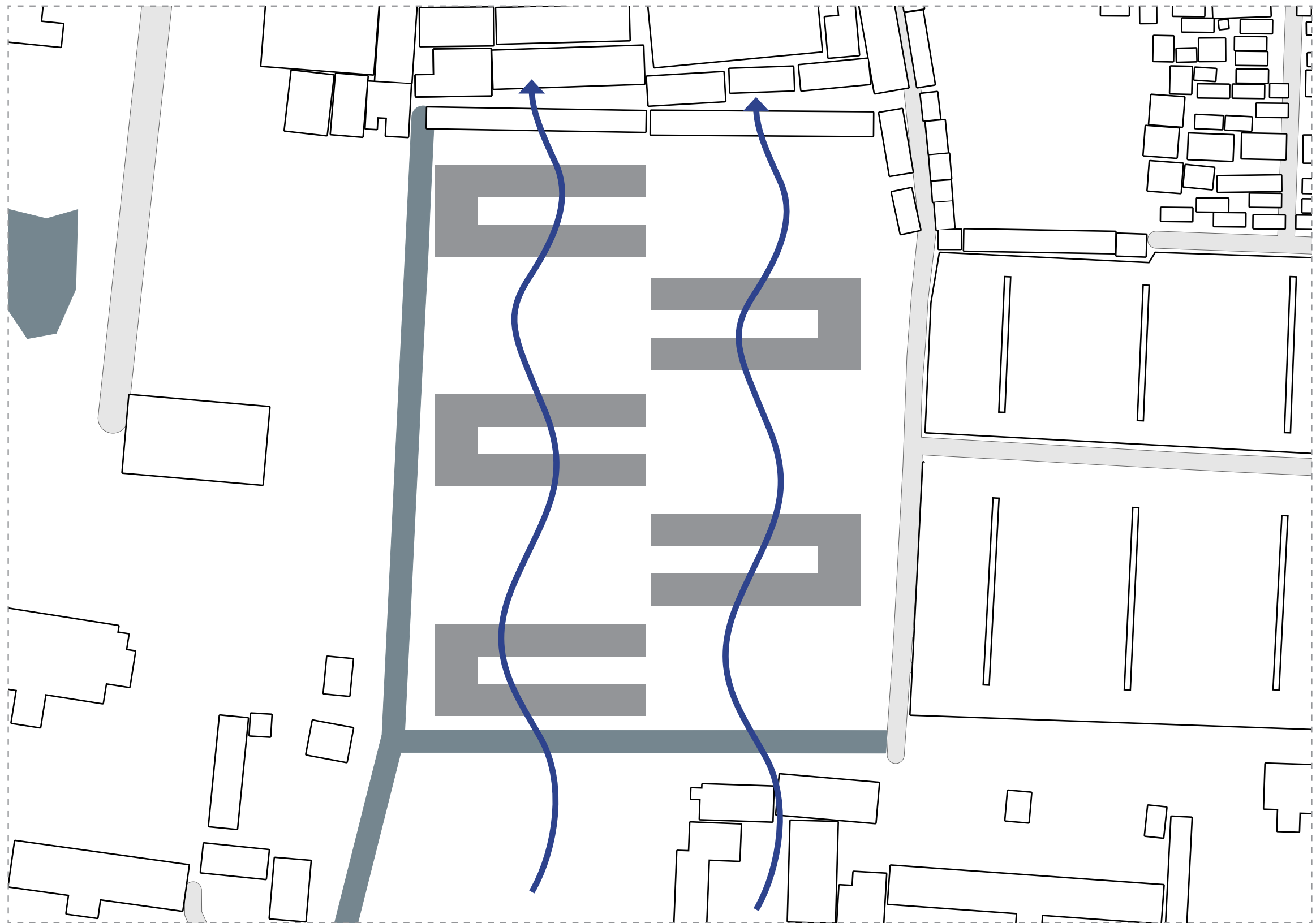


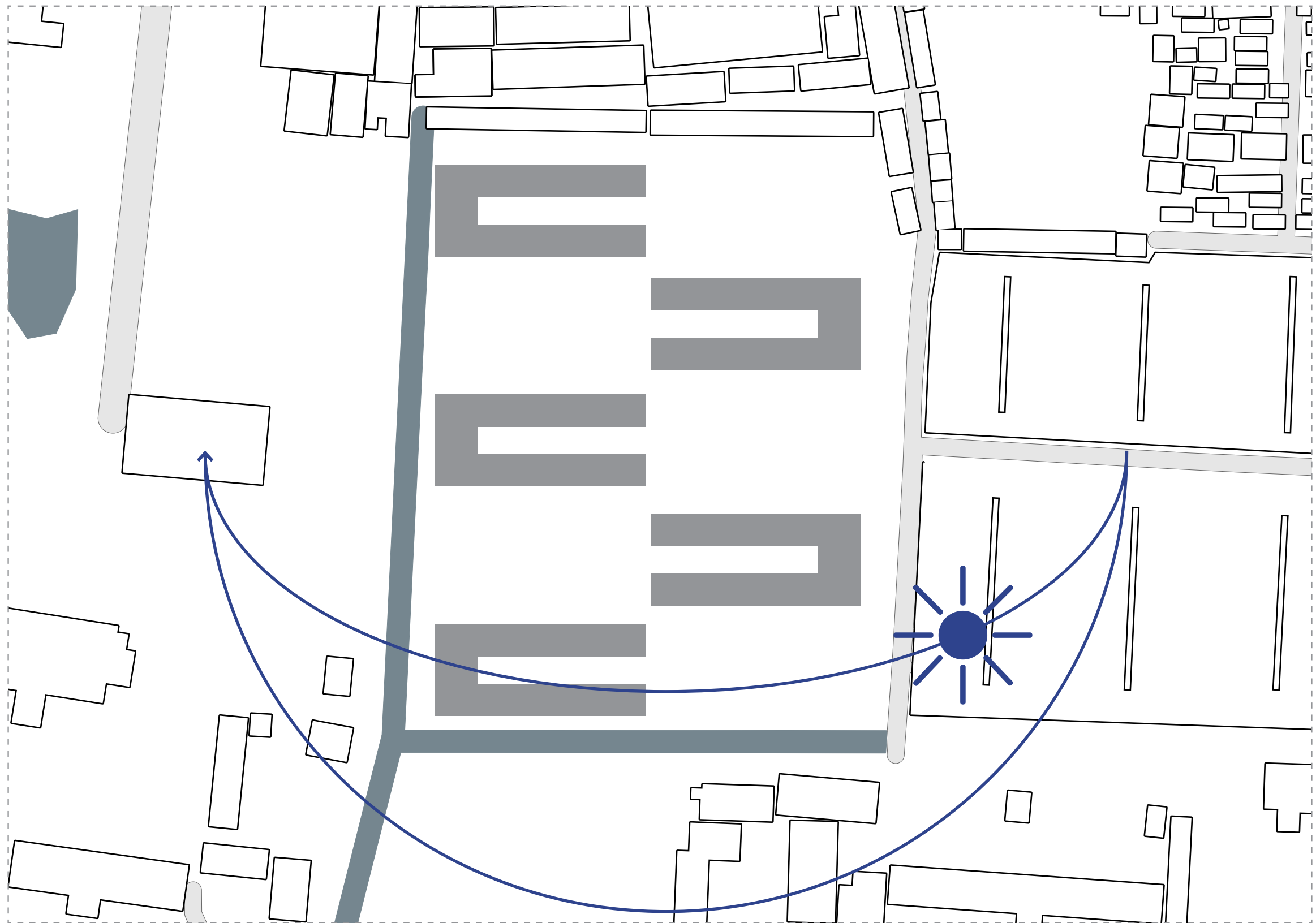


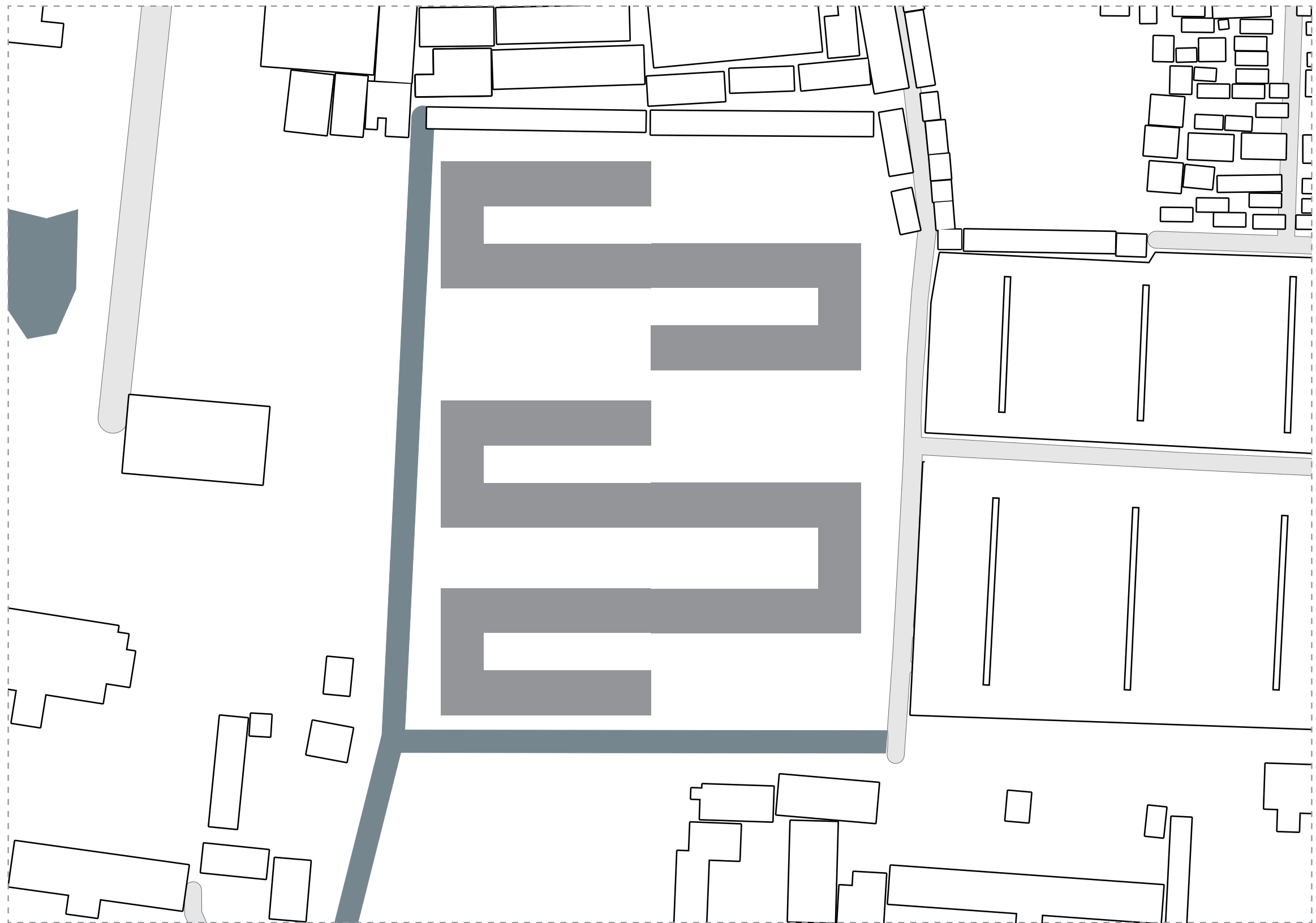


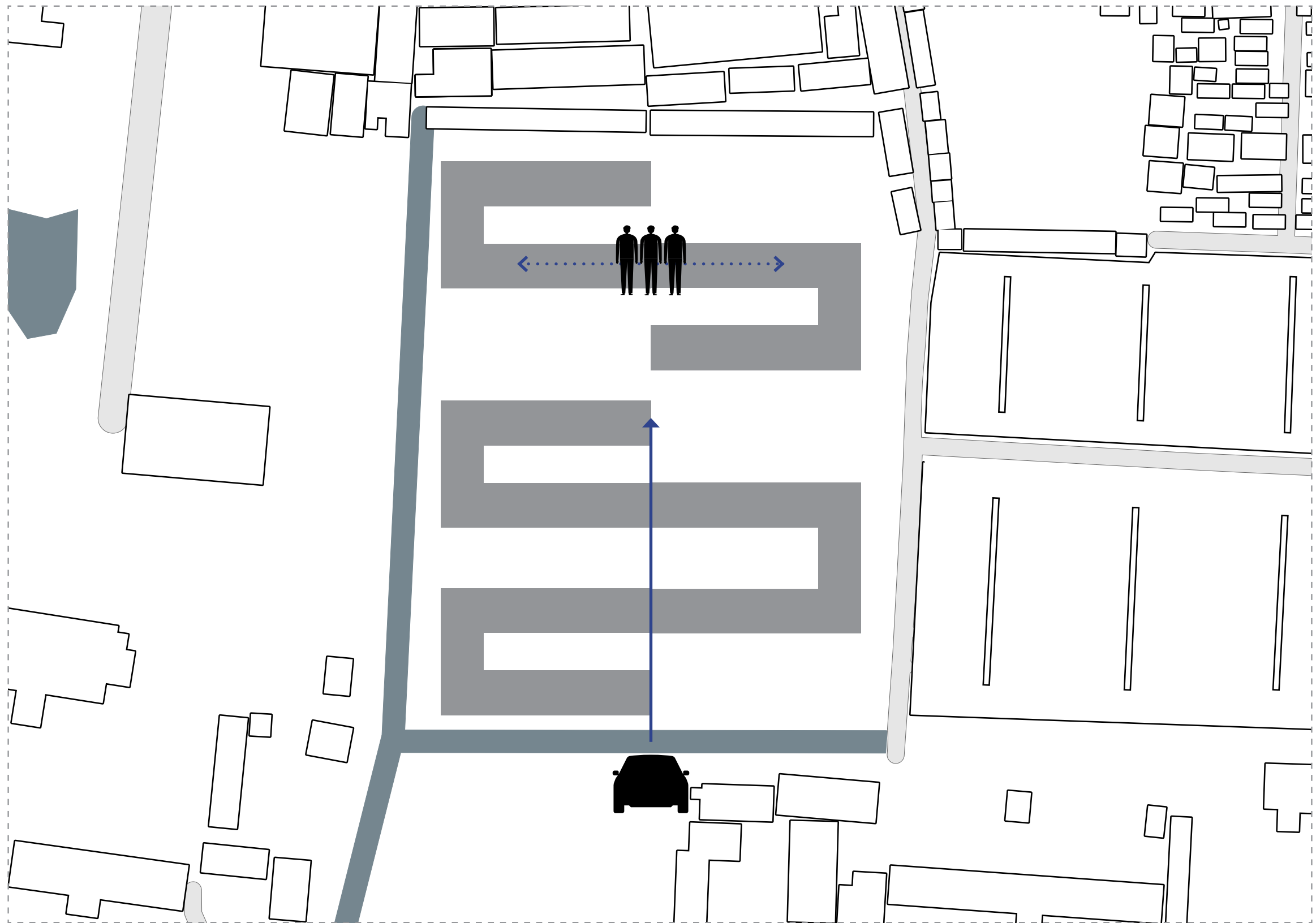






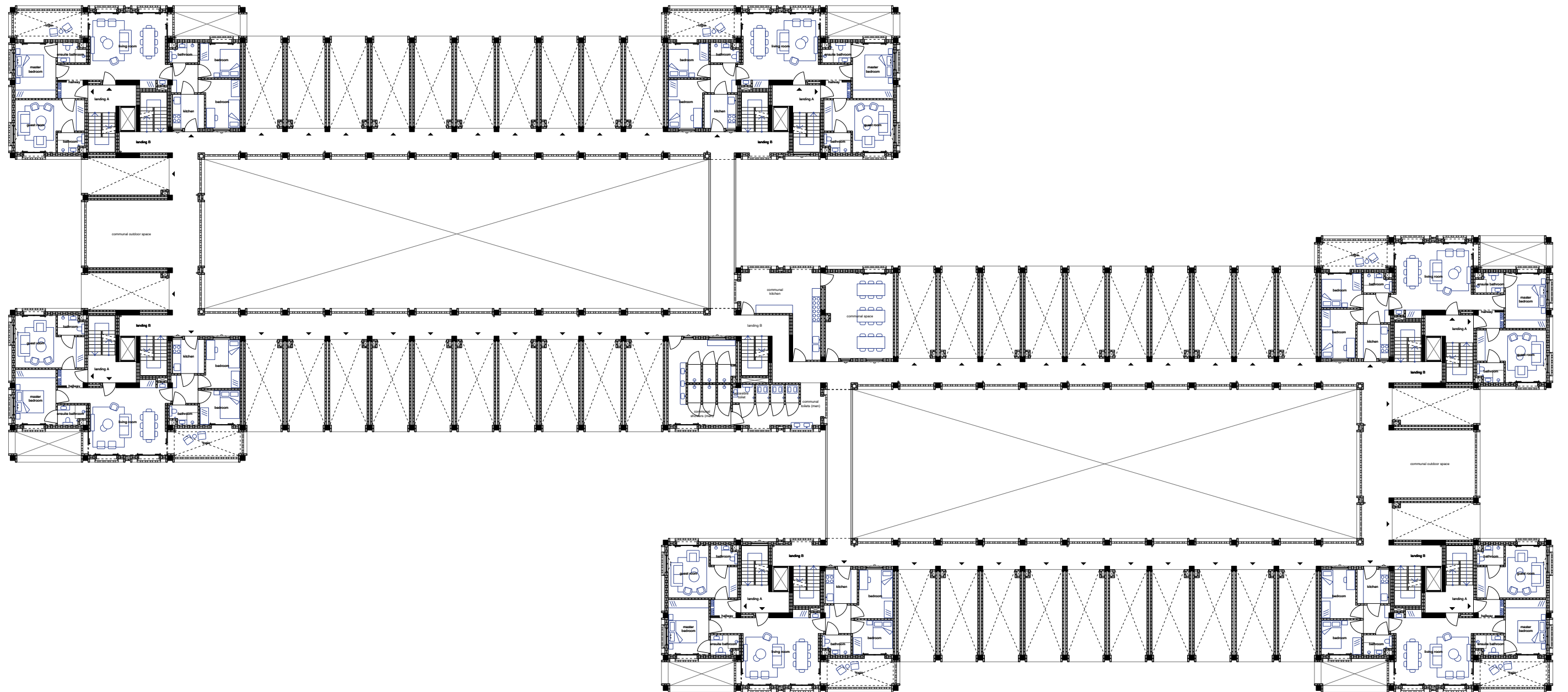


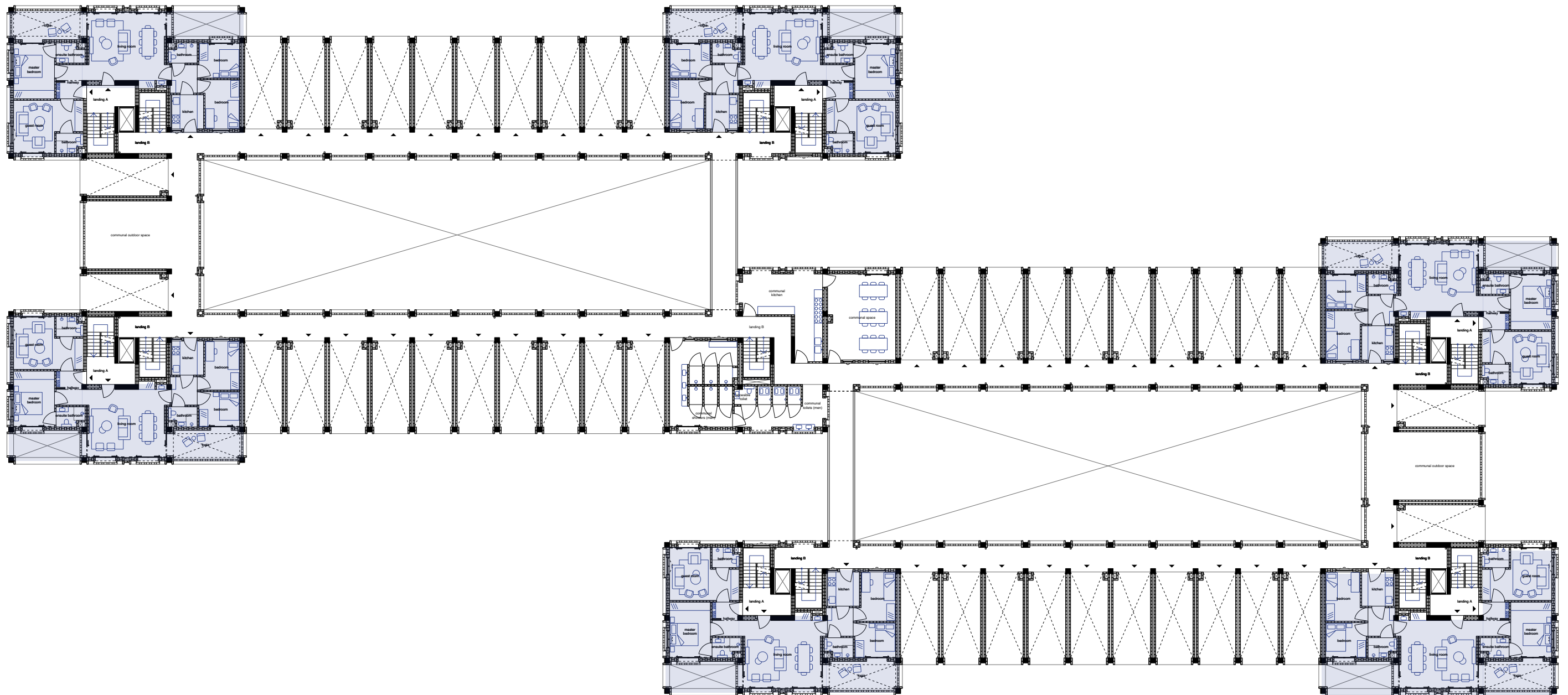


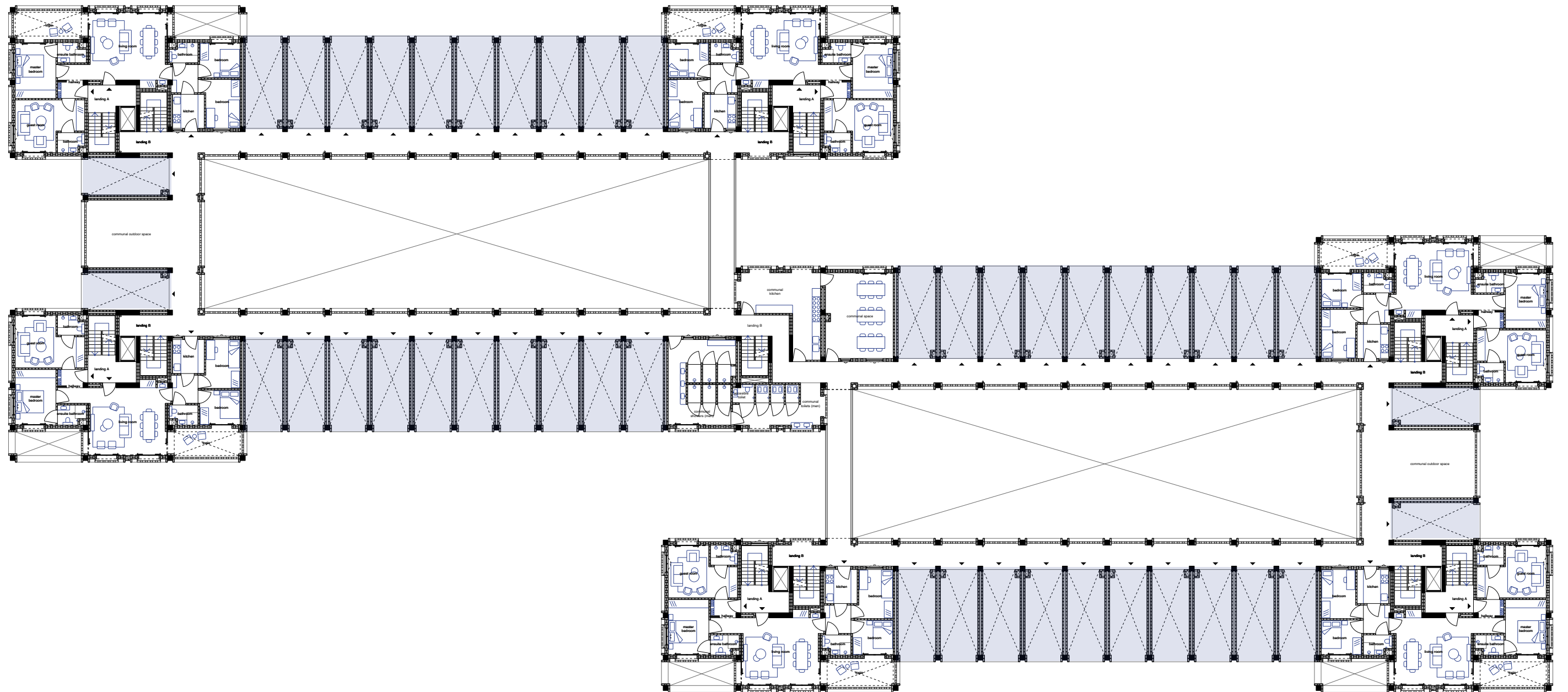


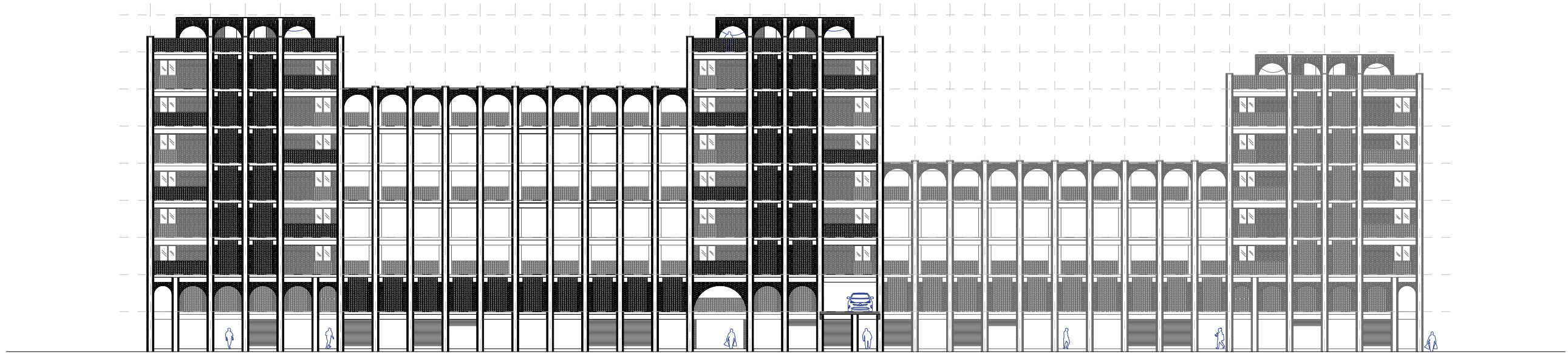


THE DESIGN

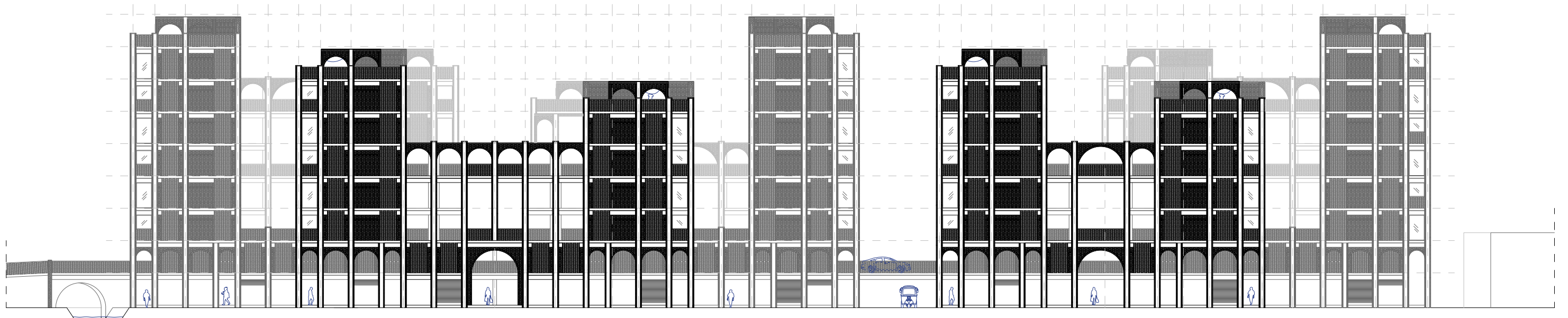




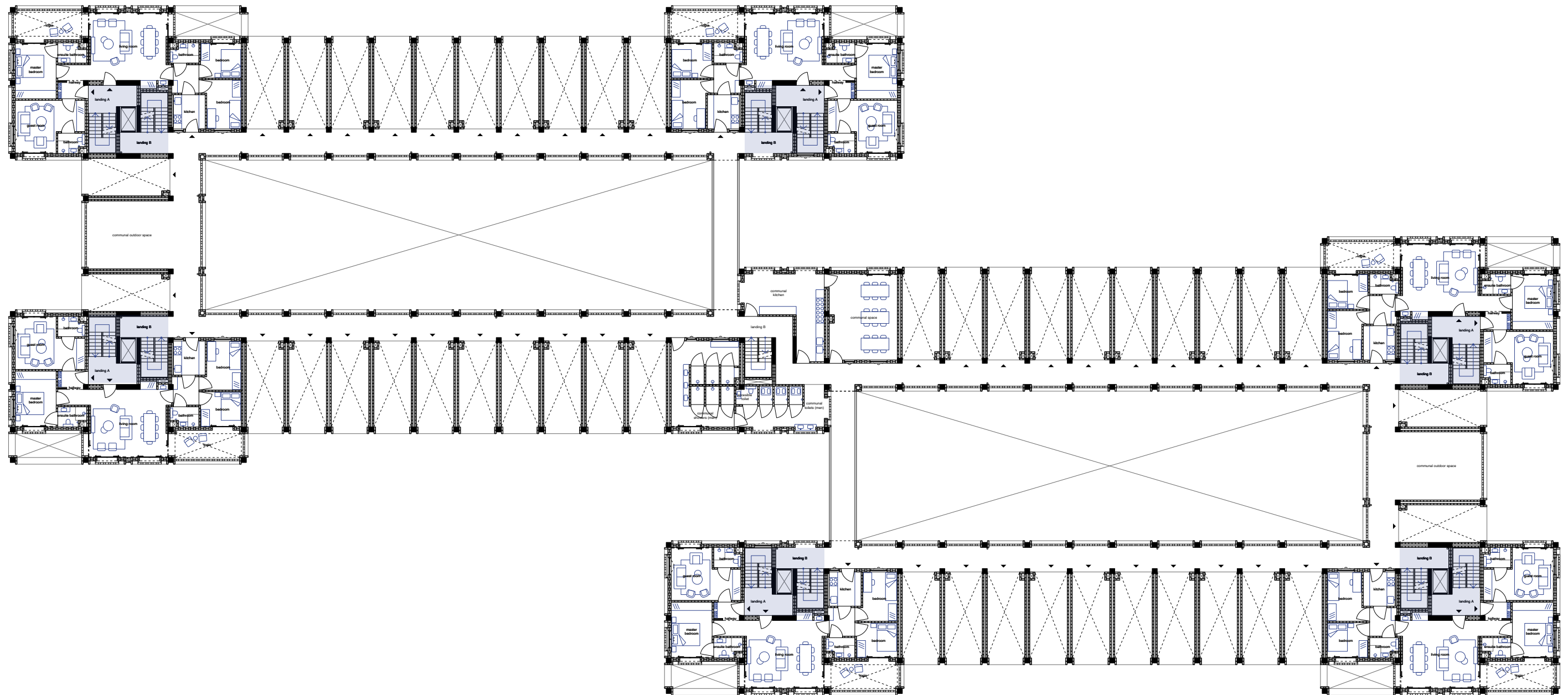




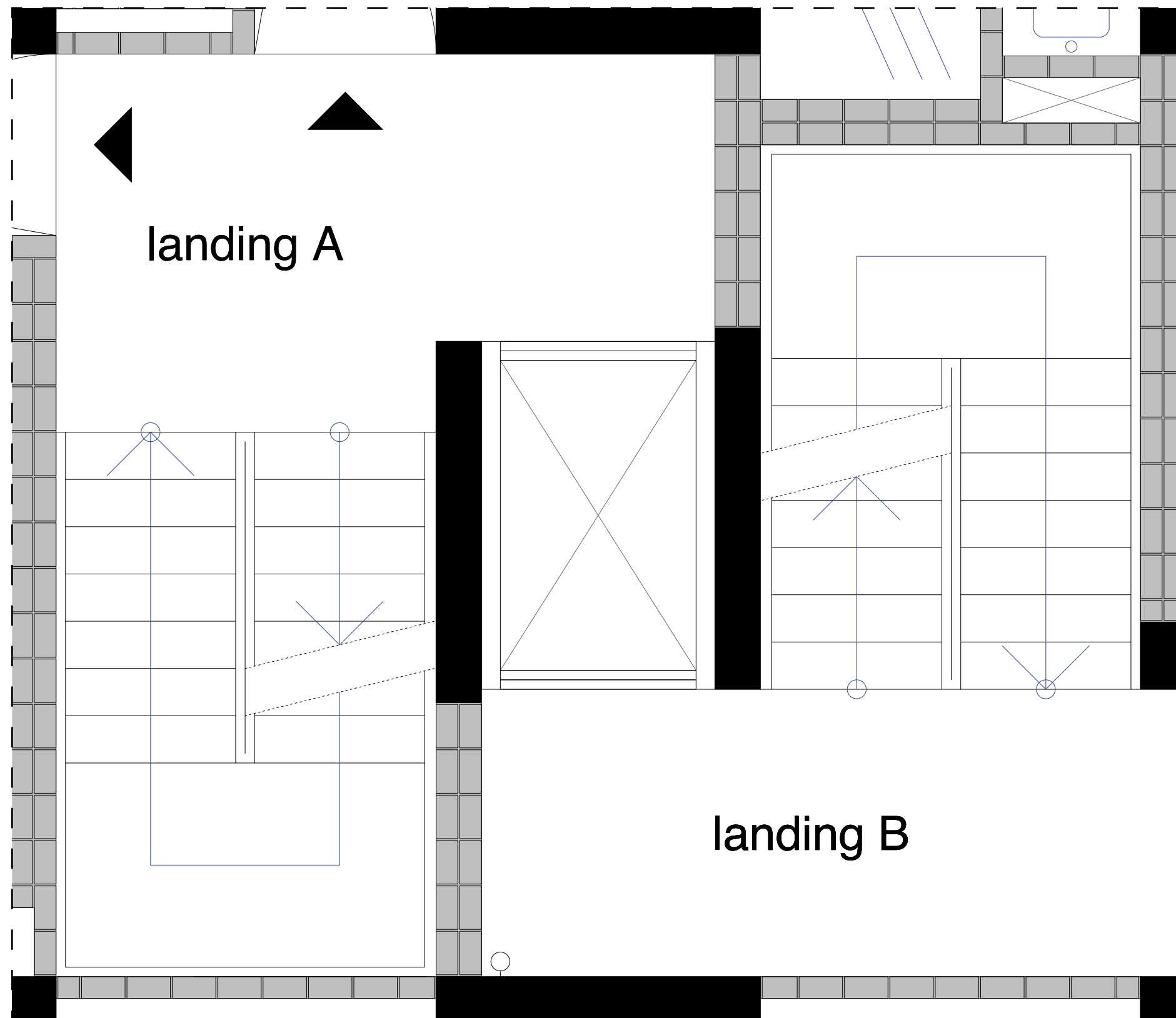
south facade

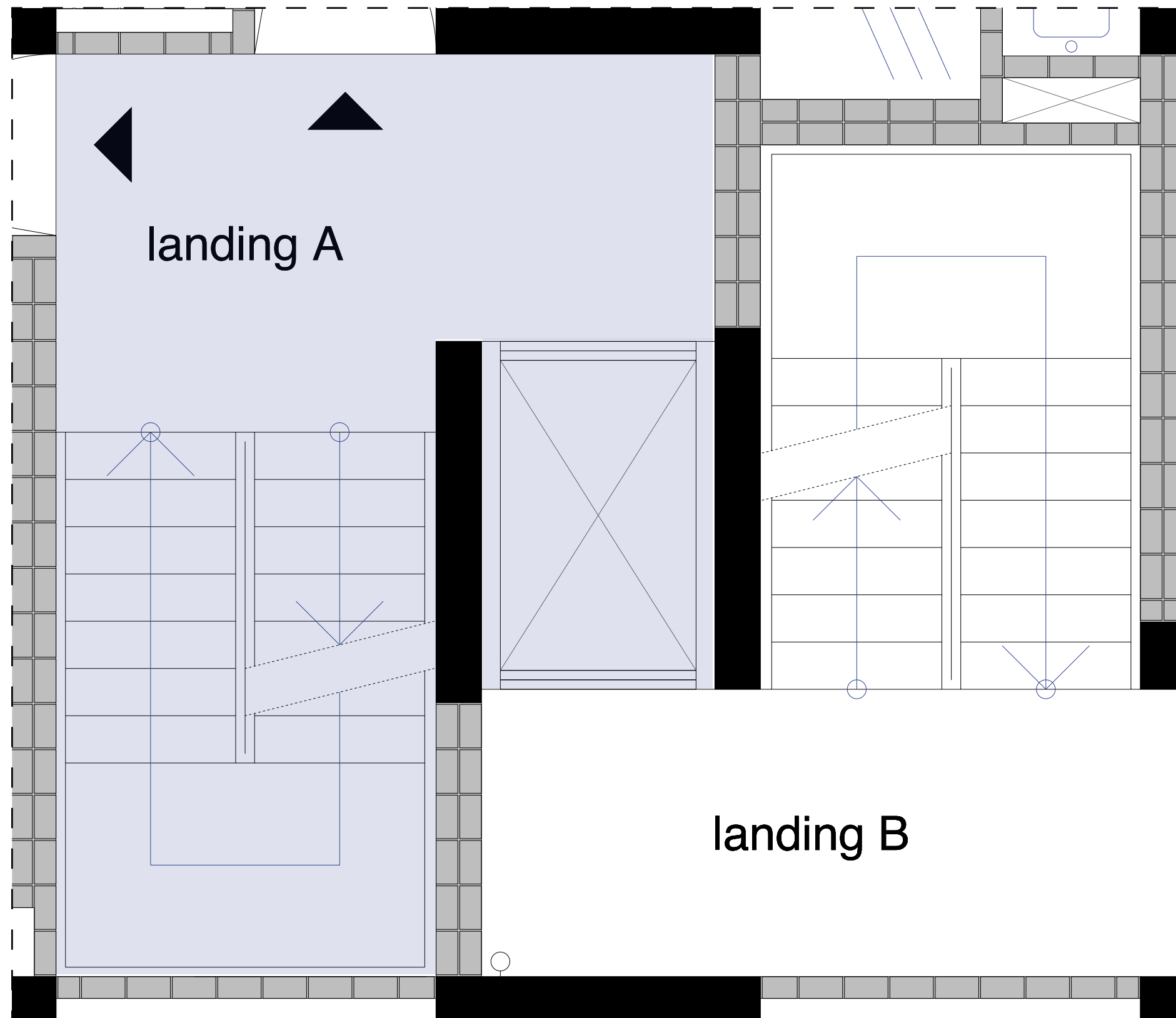


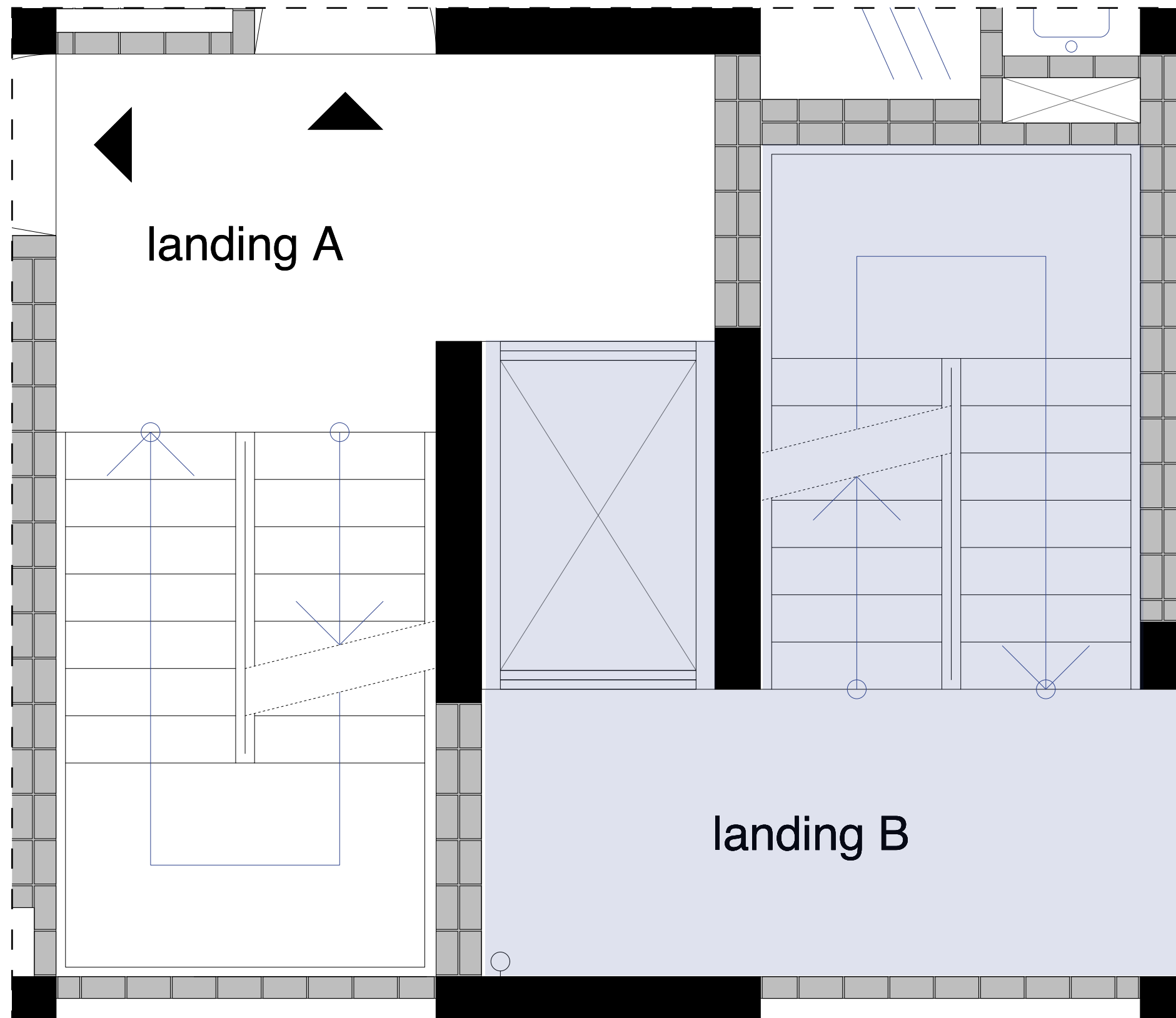
east facade

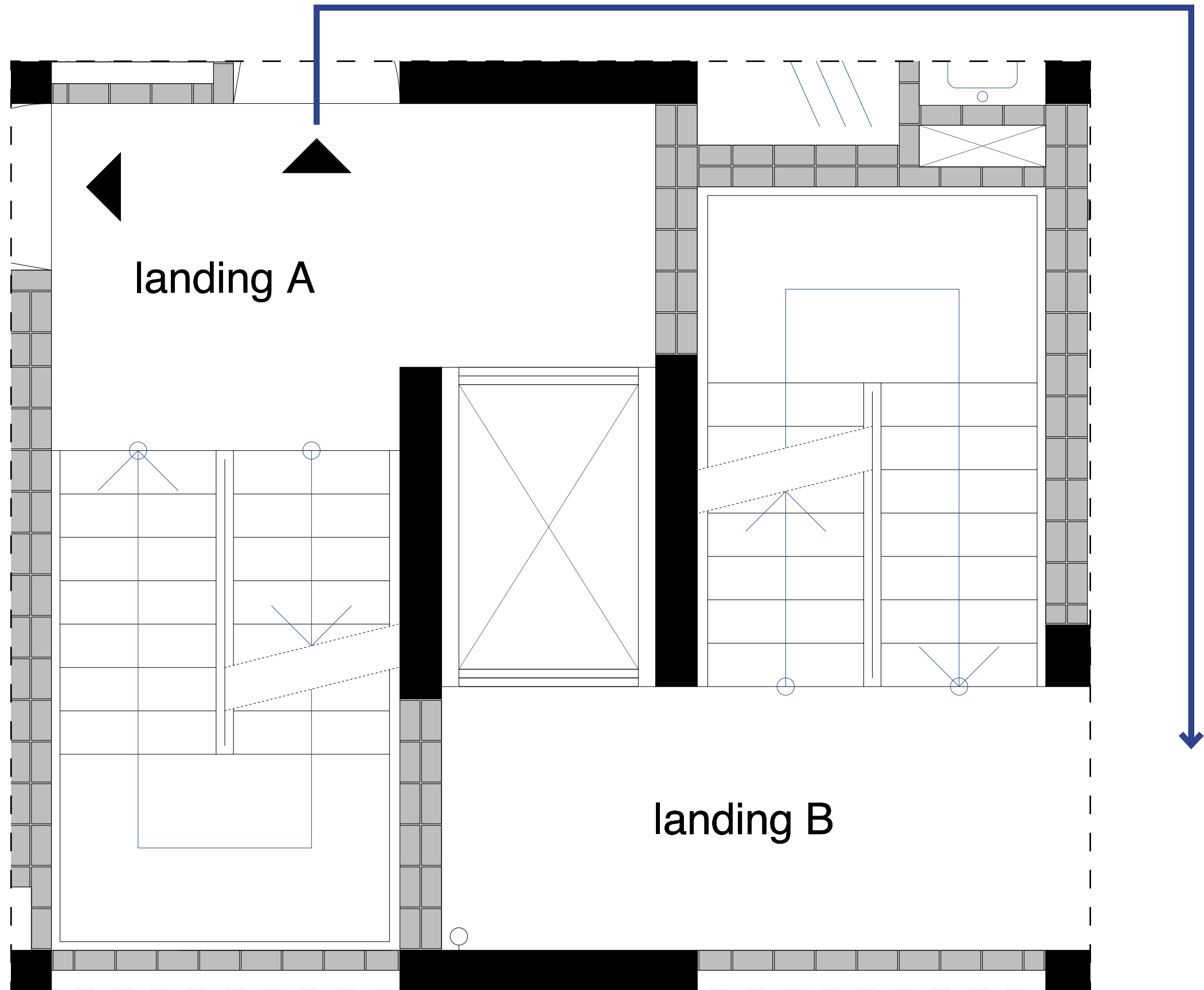


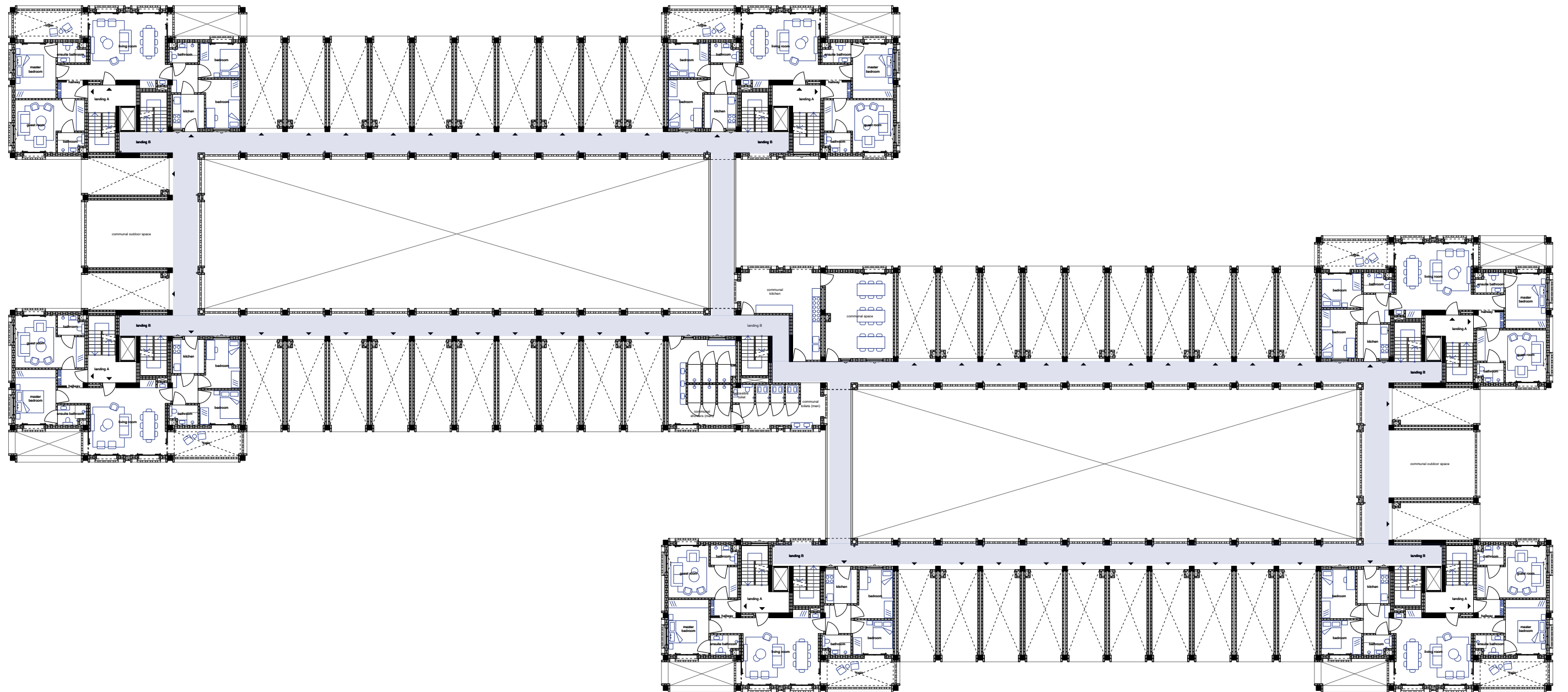


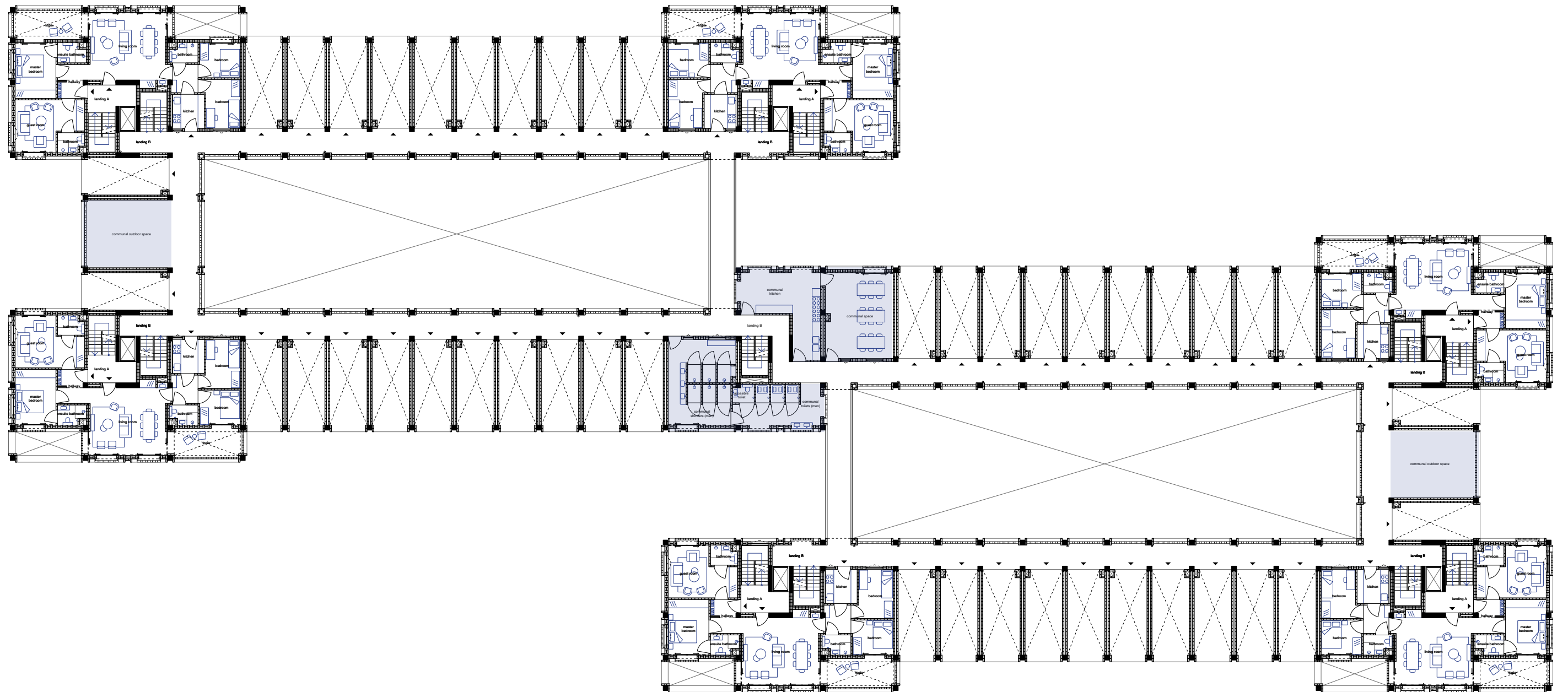


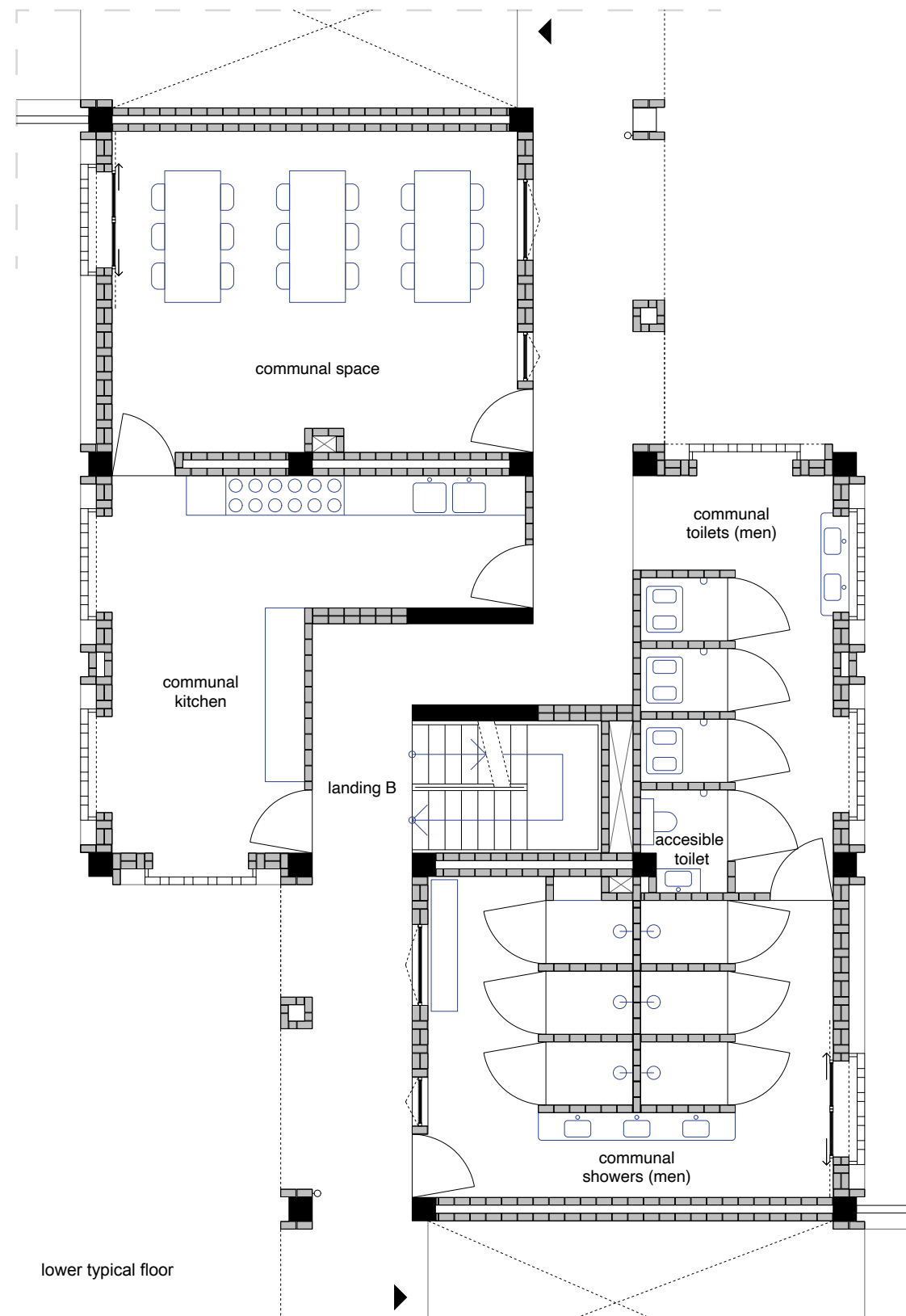




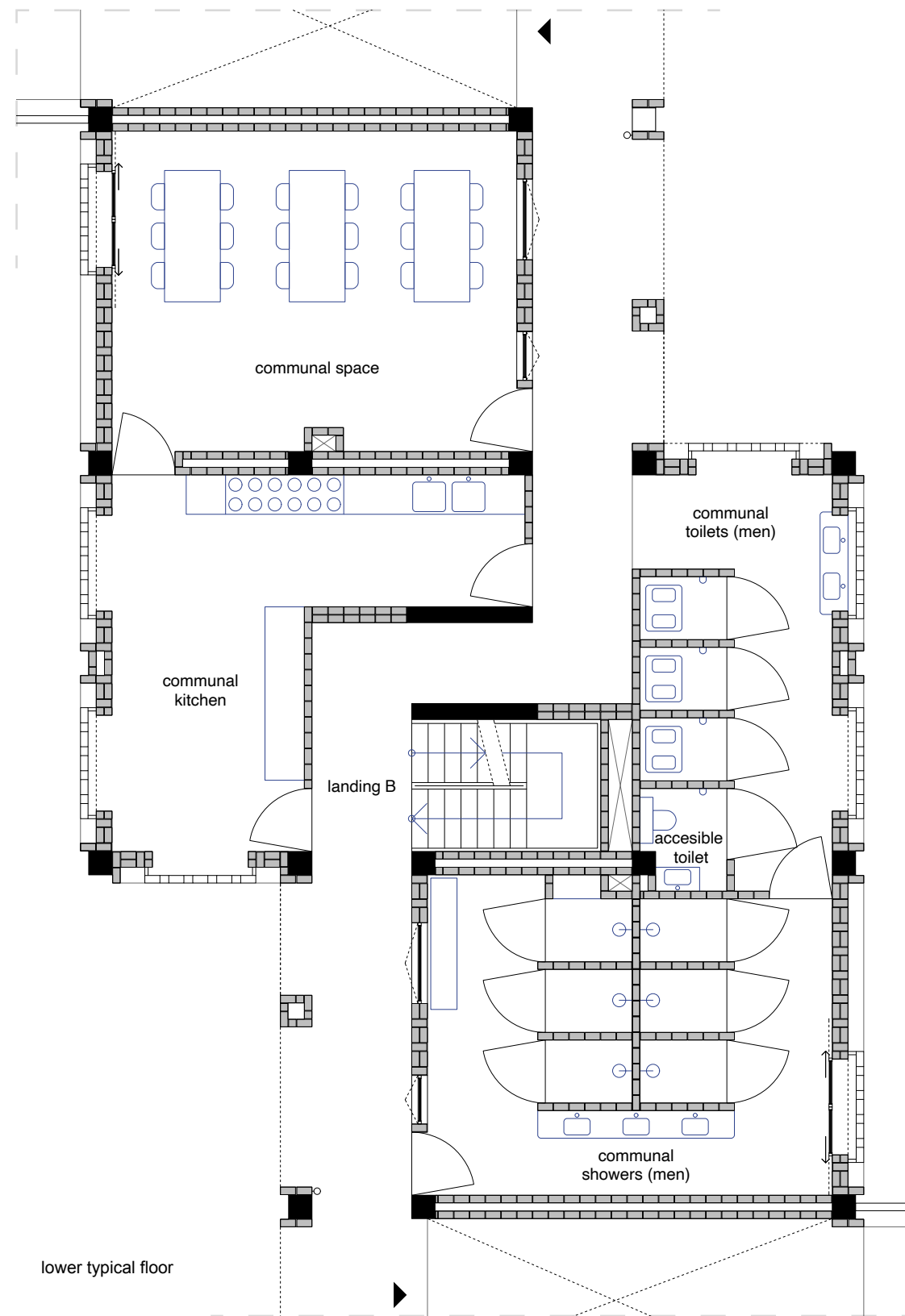




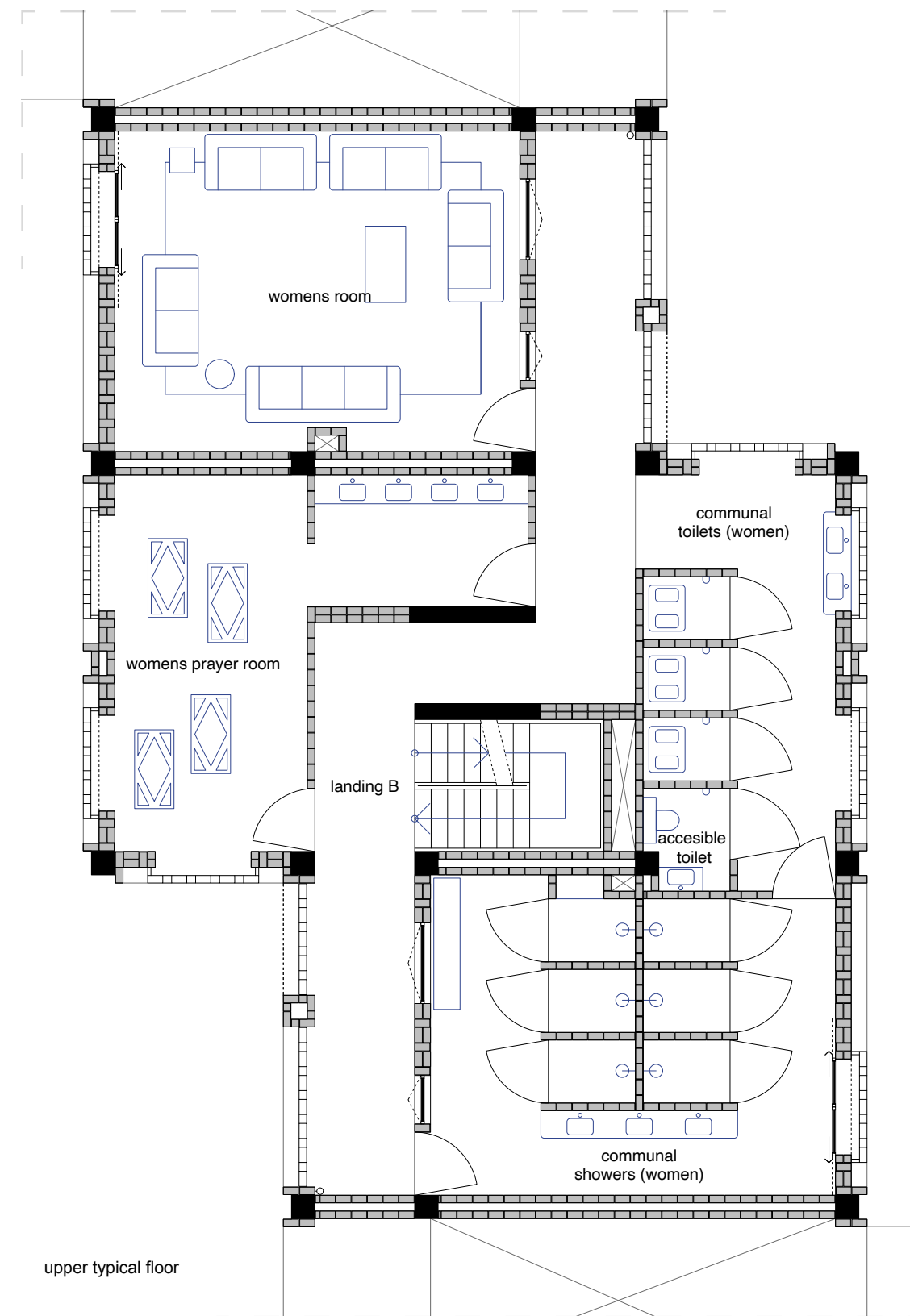




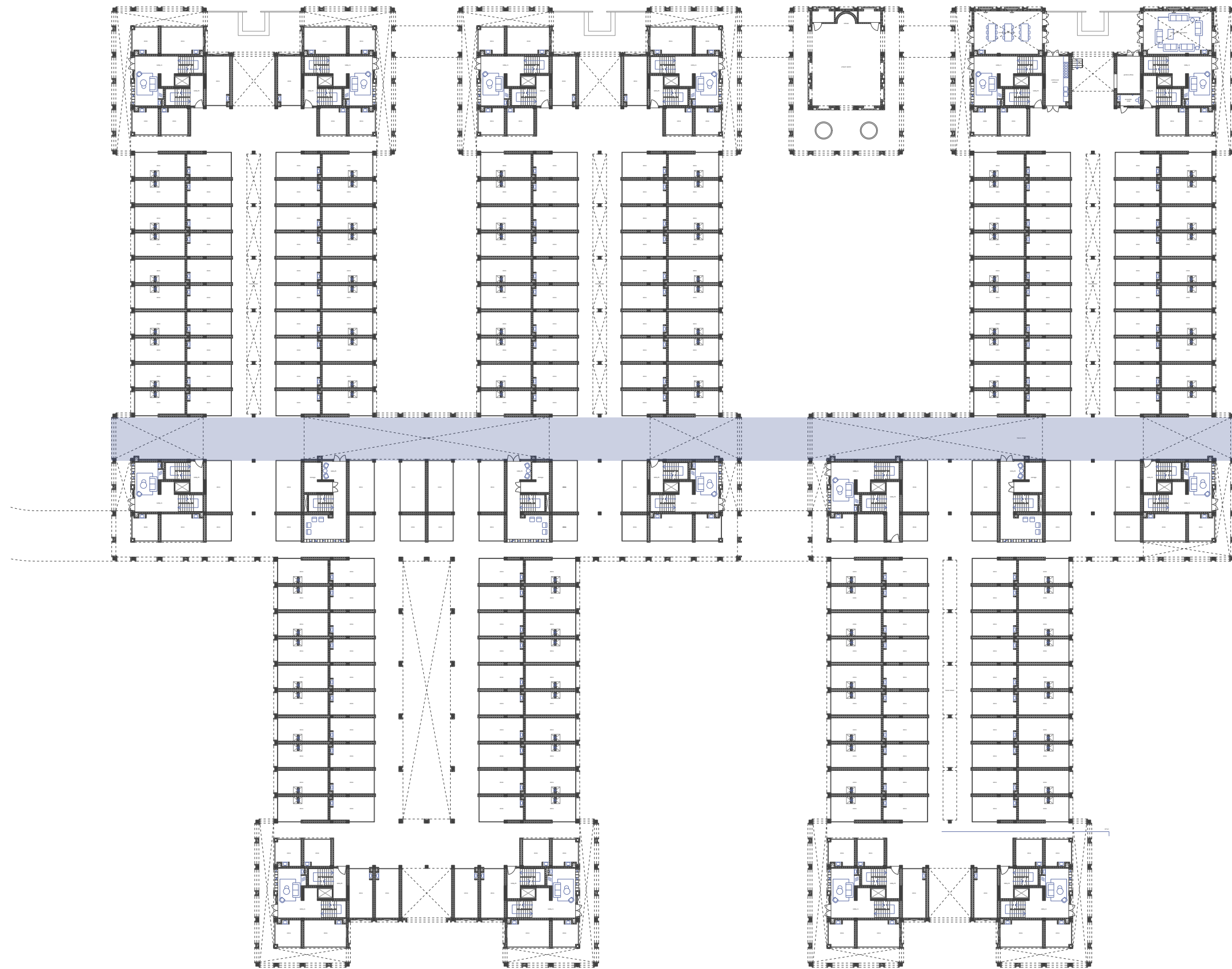
lower typical floor

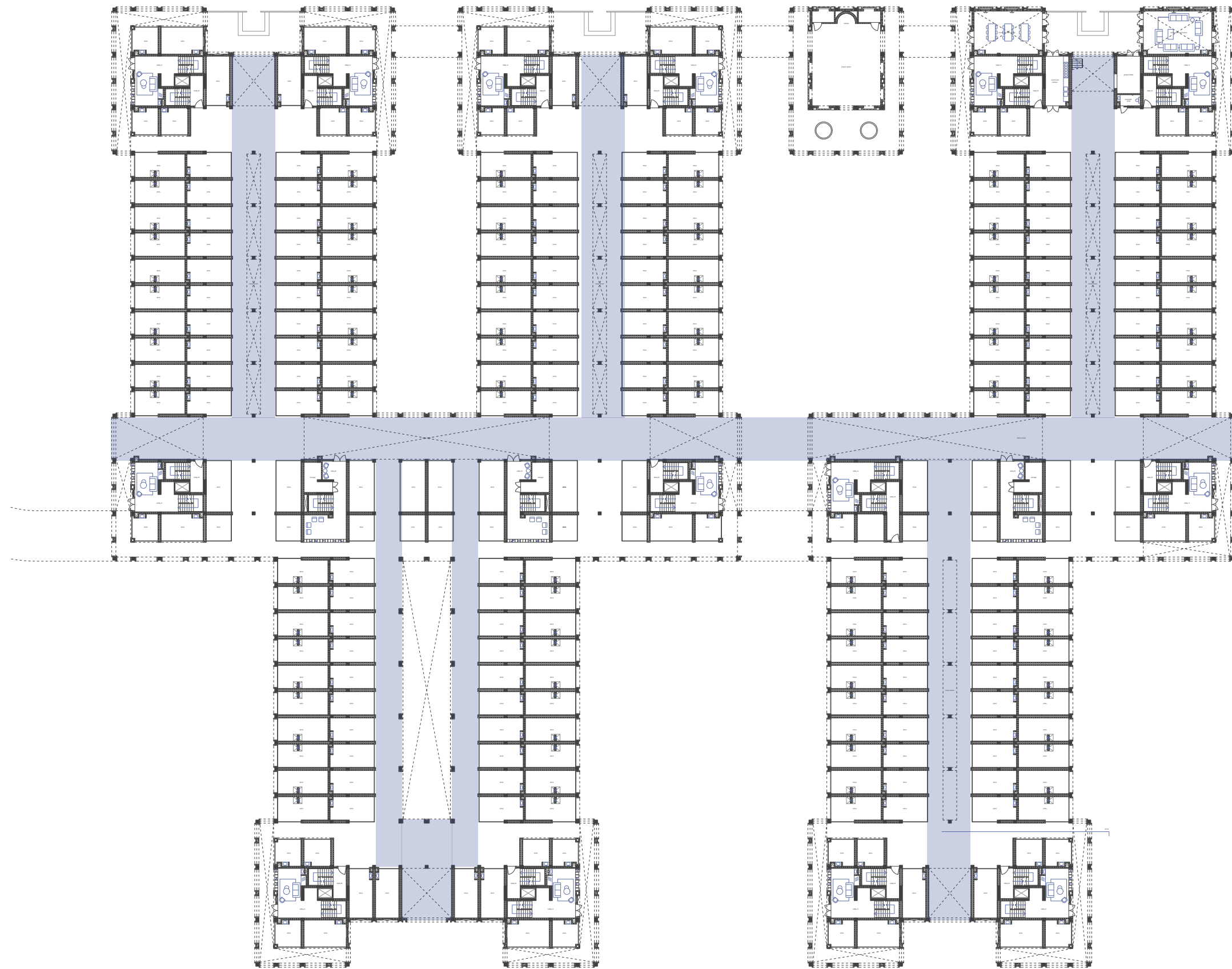


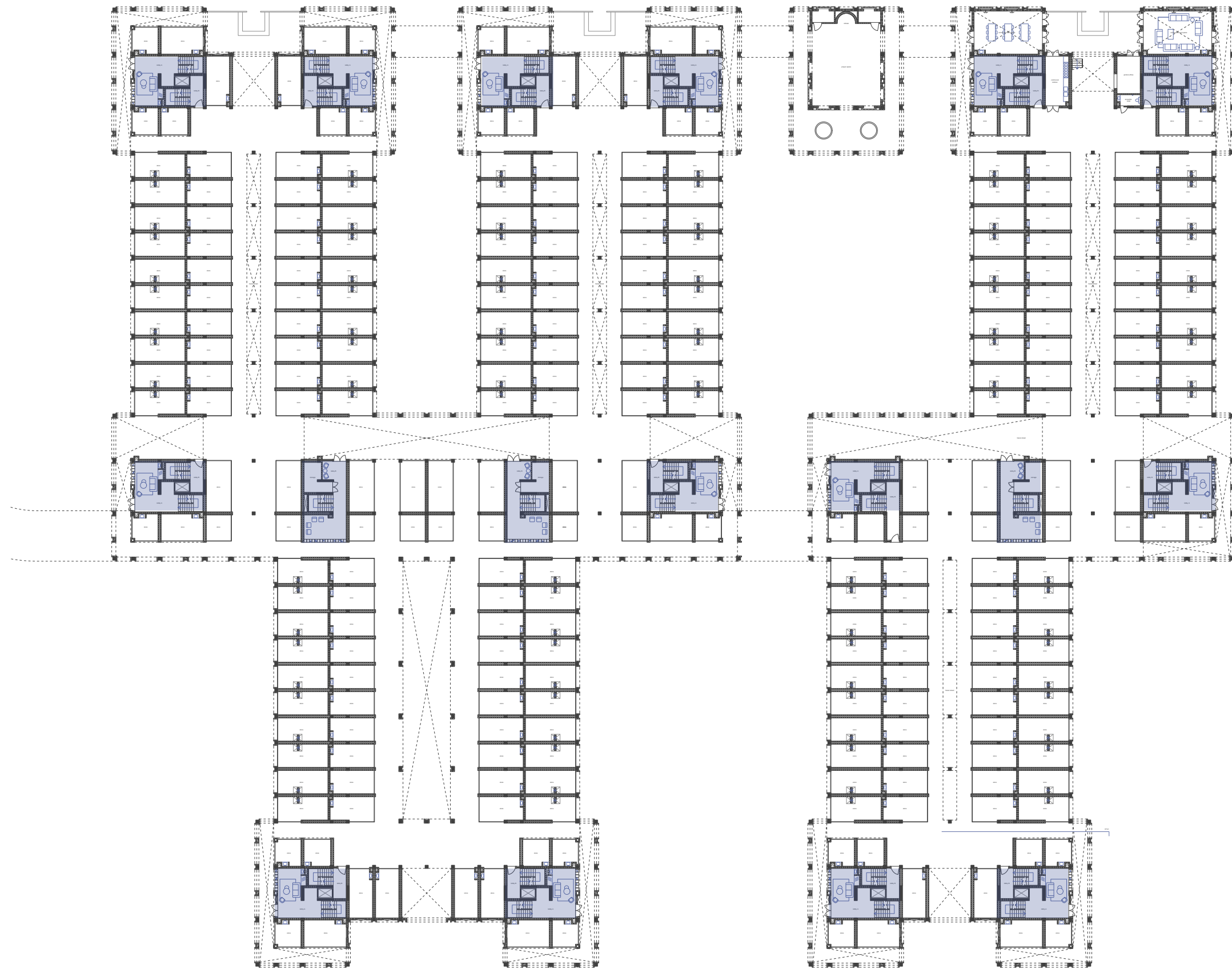
lower typical floor

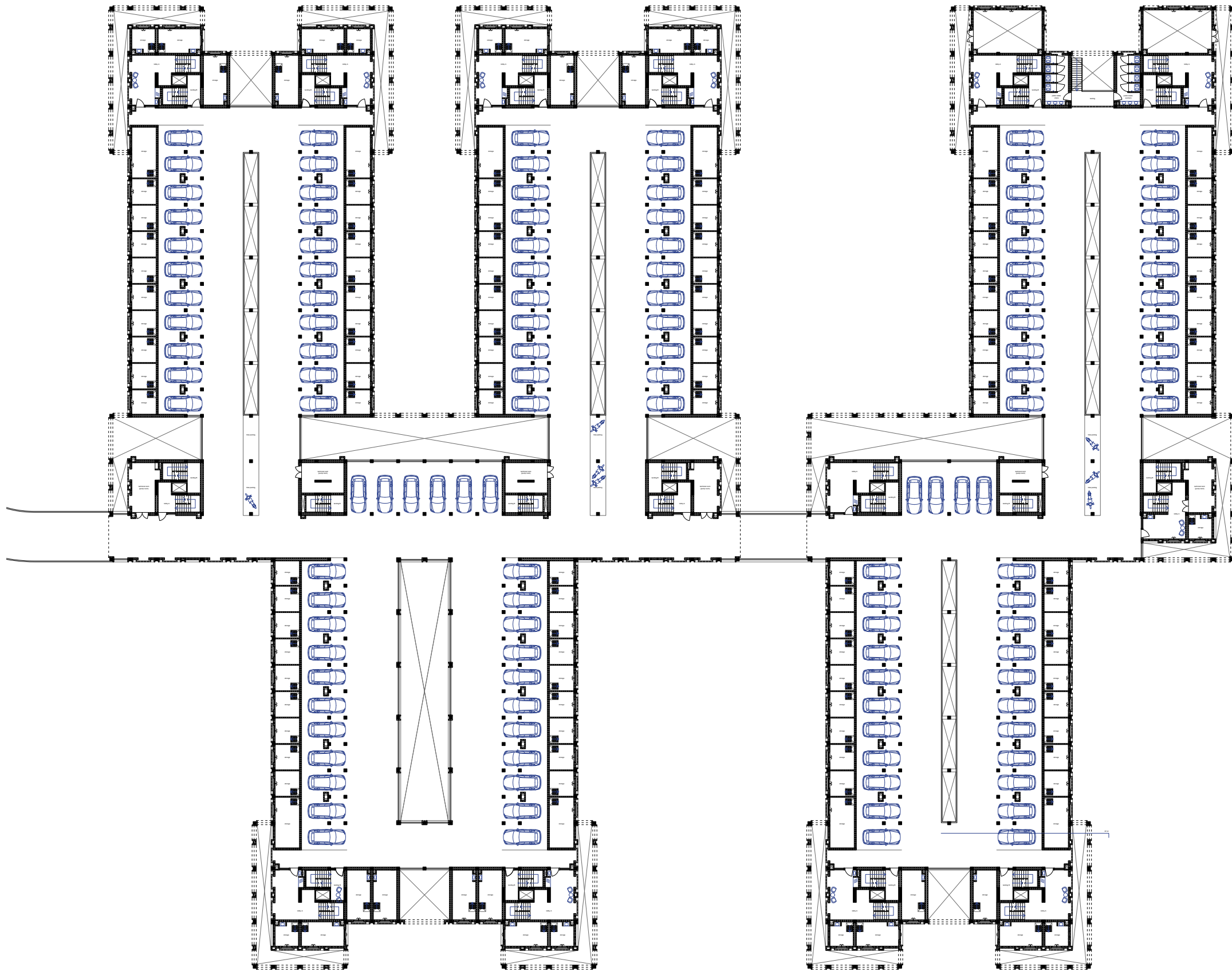


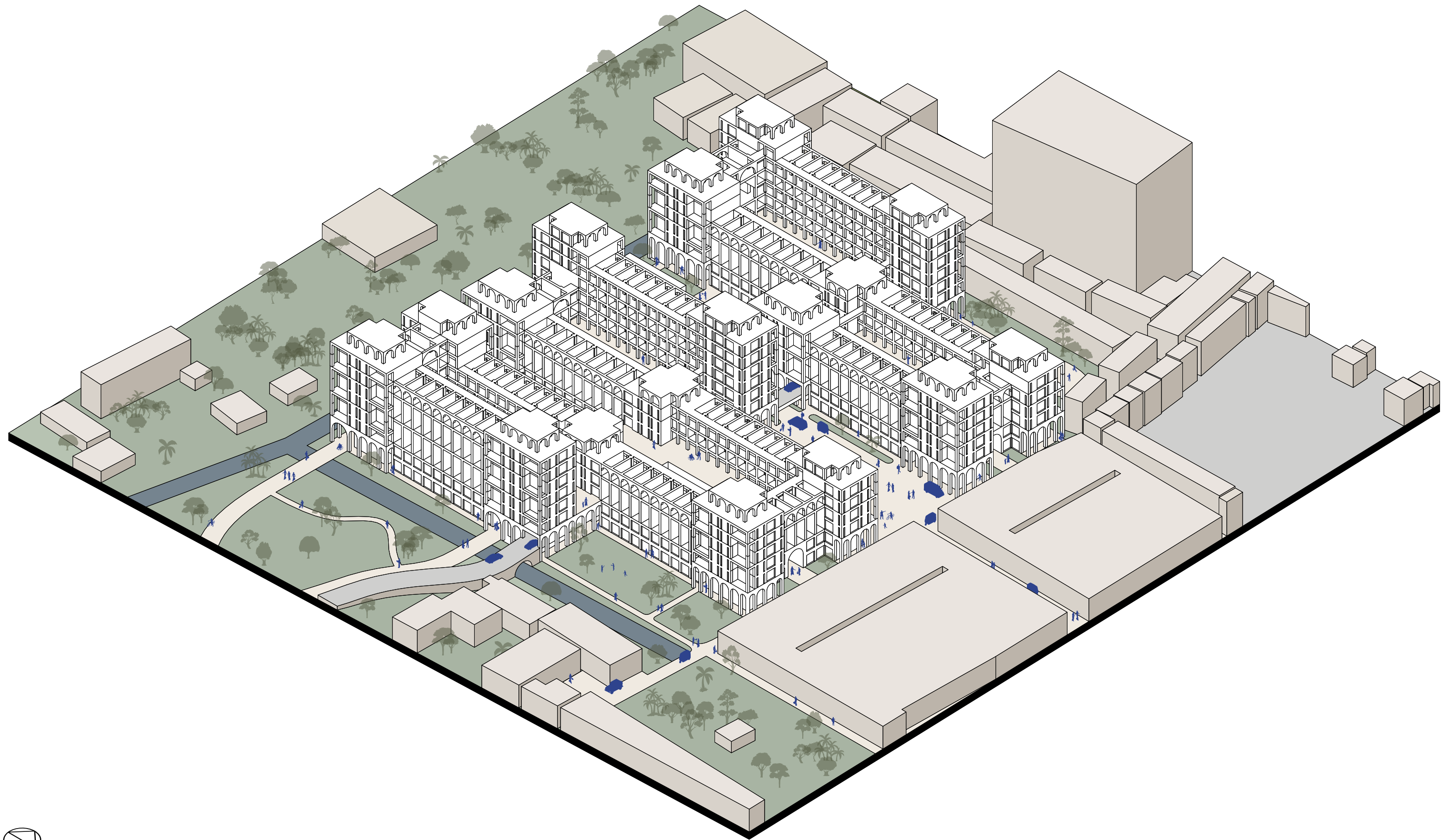
upper typical floor







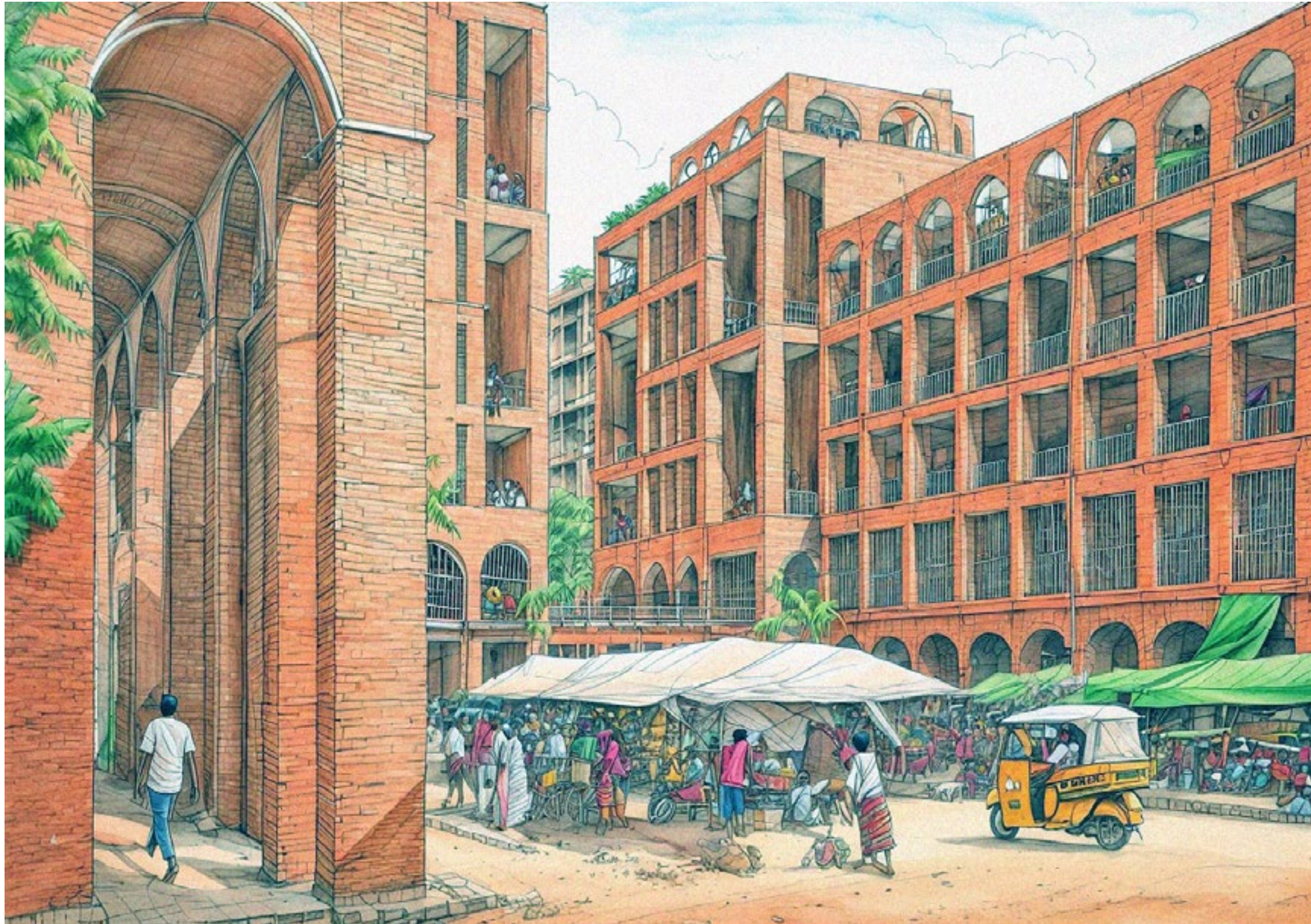














DWELLINGS

Type A:



interior floor area = 98 m²



exterior floor area = 12 m²



guest room / extra bedroom



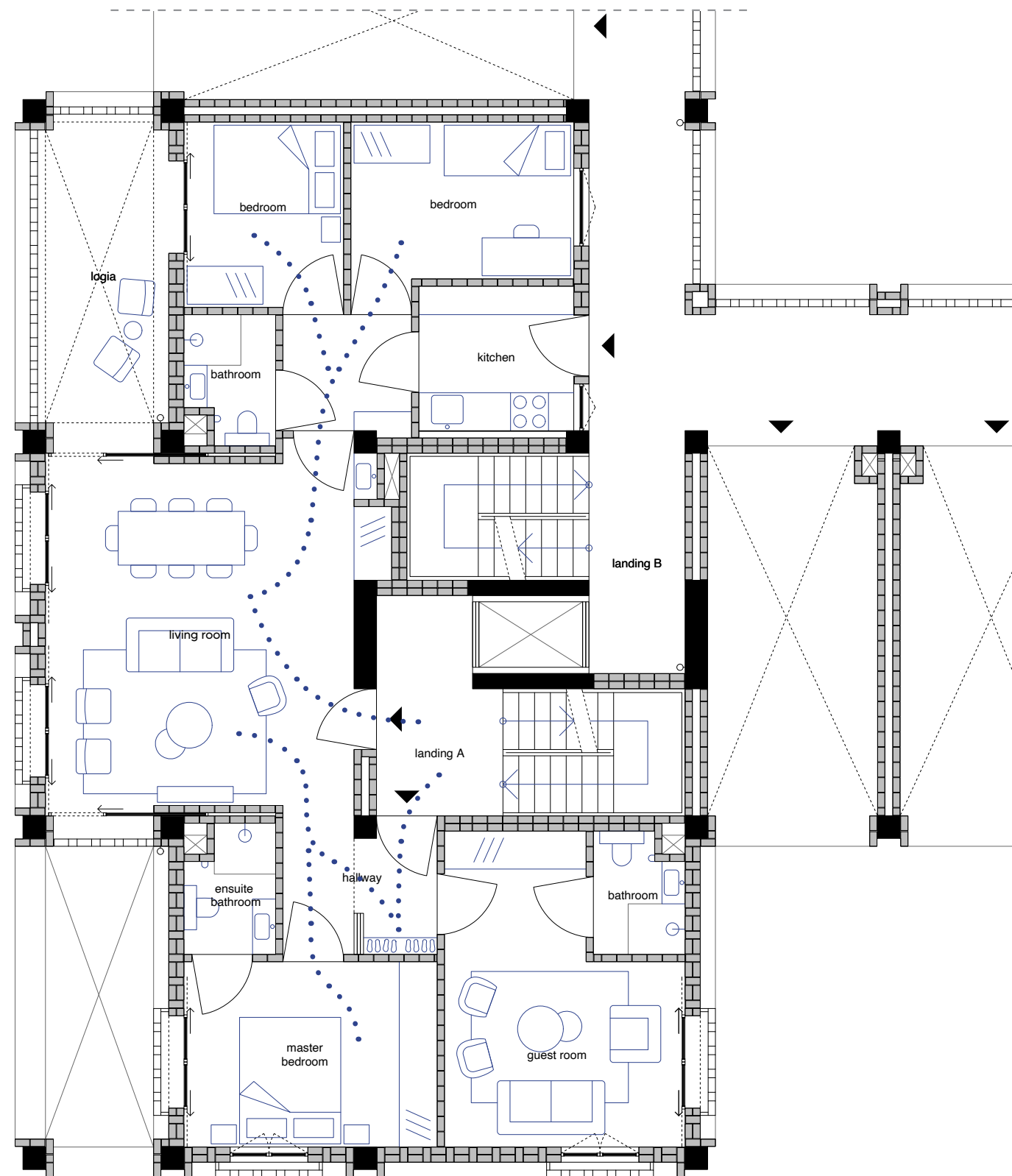
bedrooms = 3 / 4

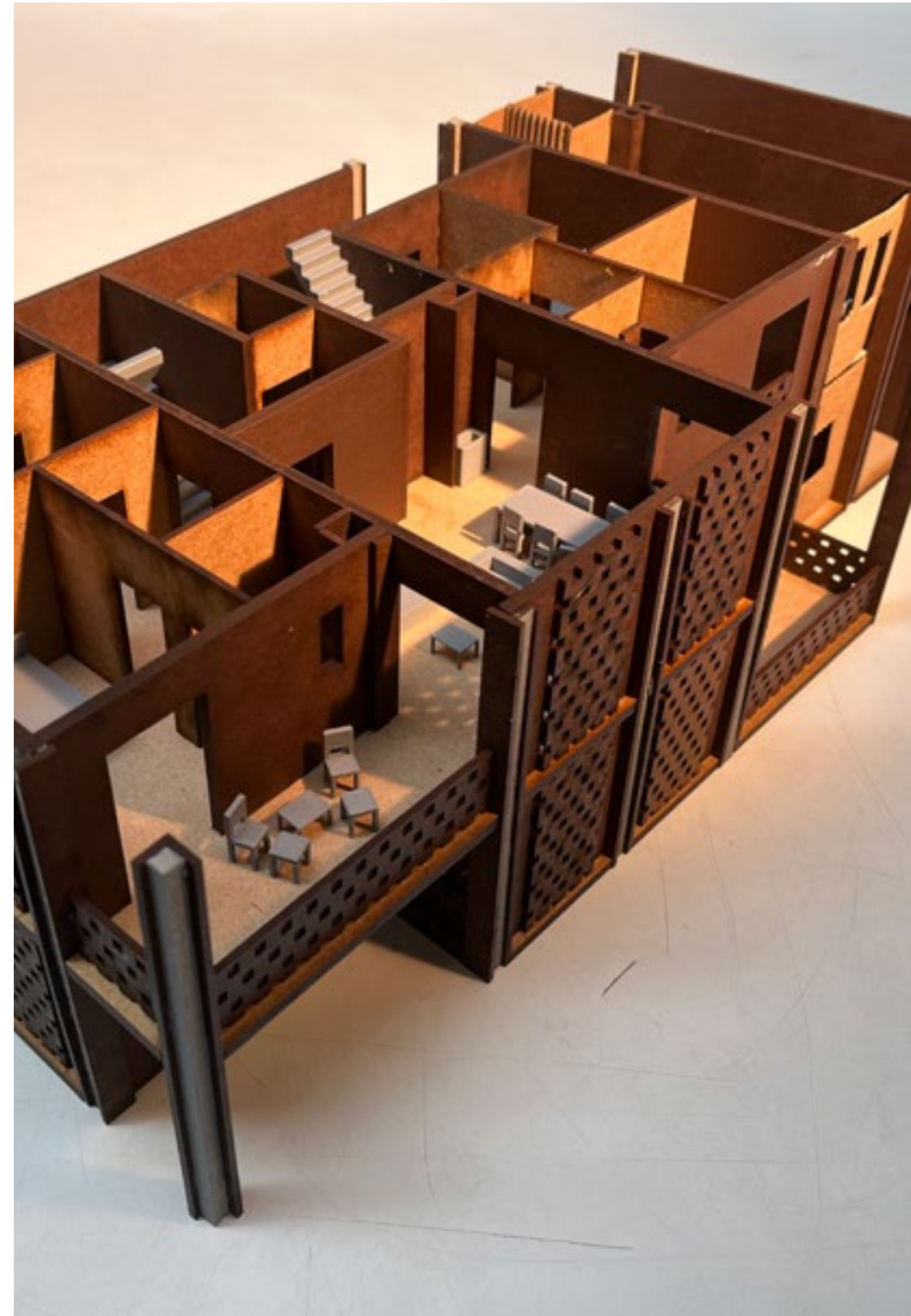


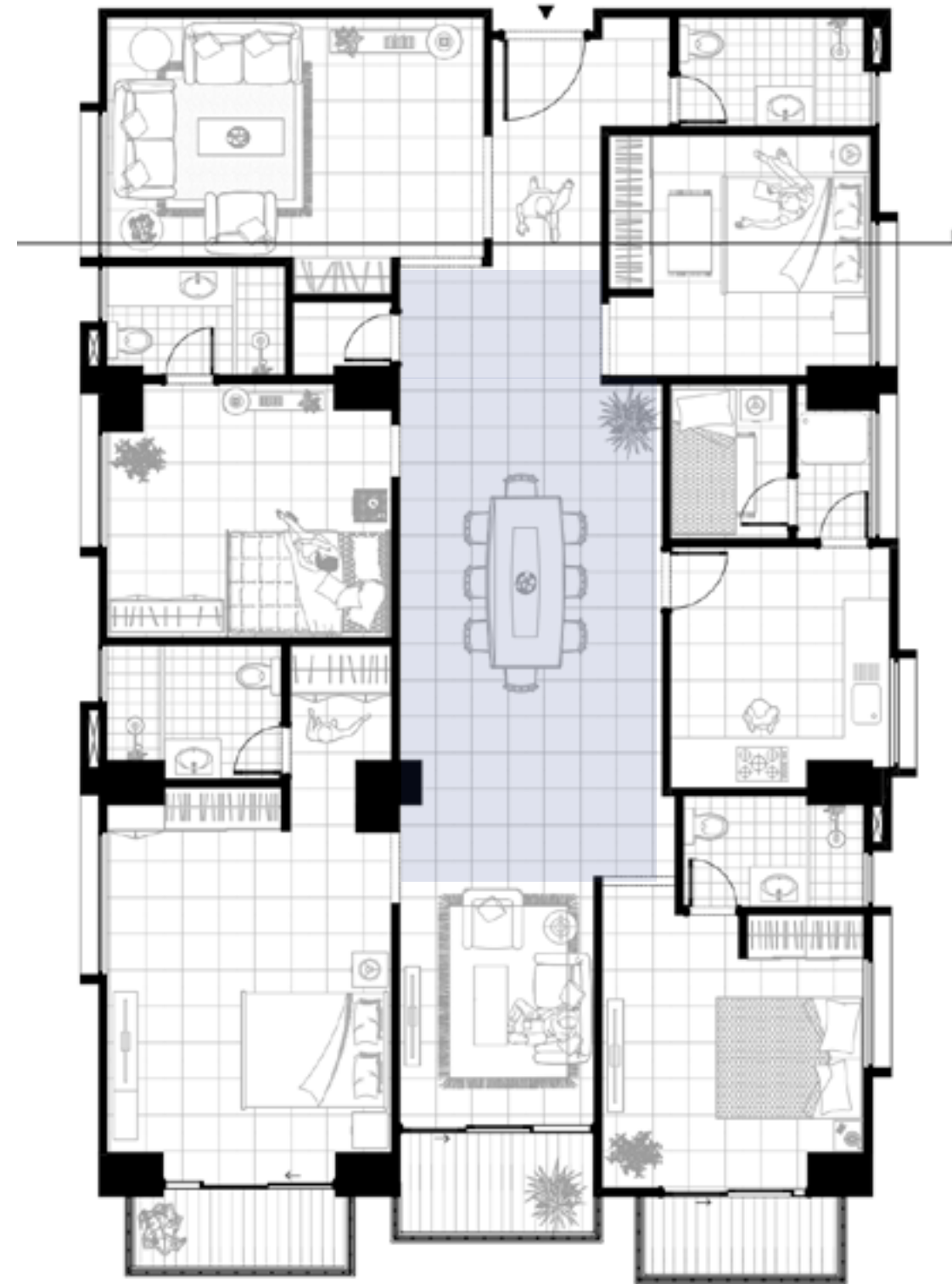
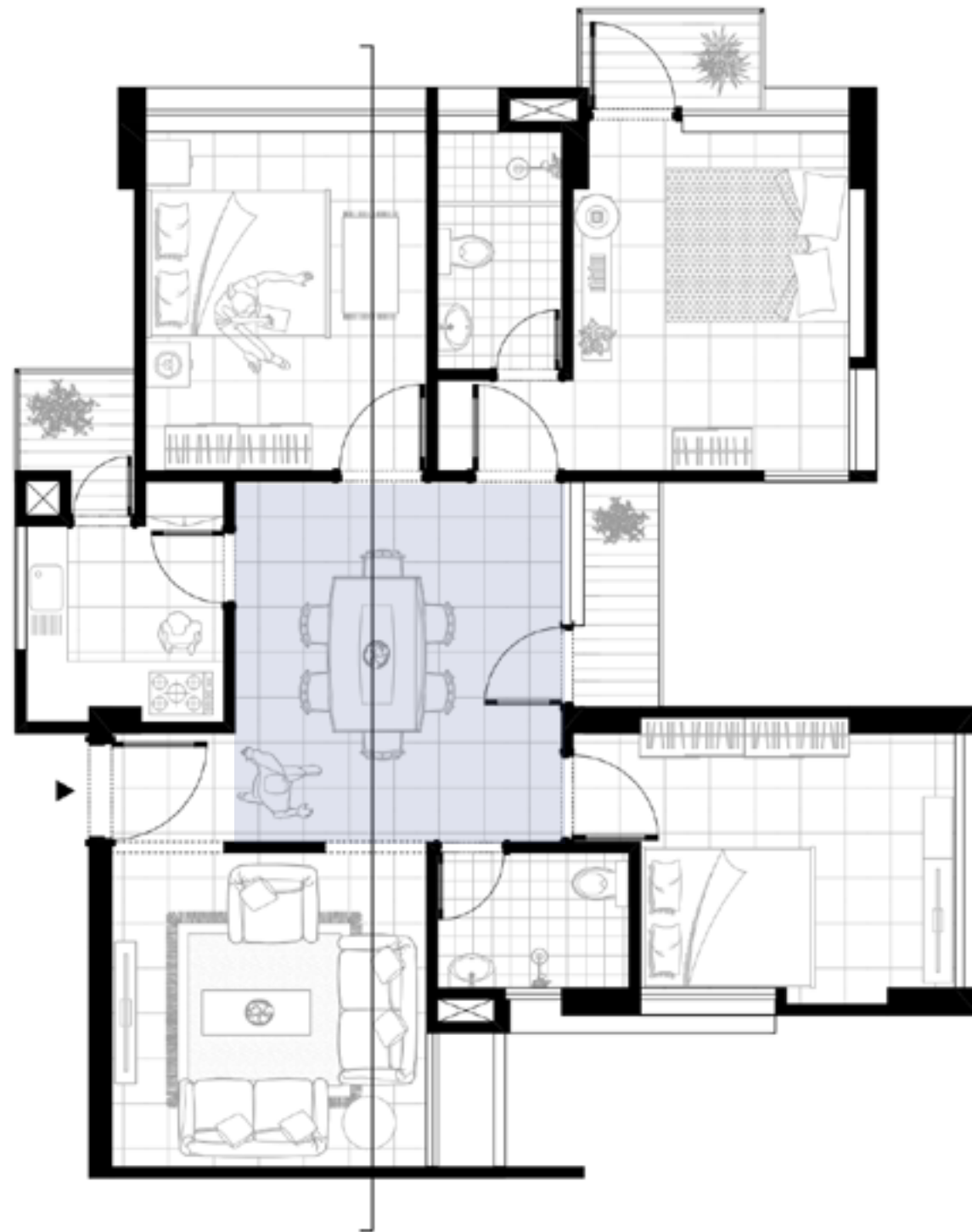
bathrooms = 3



price = ~7.200.000 tk (€ 50.000)







Left image: 'Soia Housing' in Sylhet Bangladesh, architect unknown, drawing by J. Ambagts

Right image: 'Dream Valley' Cooperative housing project by doctors in Sylhet Bangladesh, architect unk, drawing by J. Ambagts

Type A:



interior floor area = 98 m²



exterior floor area = 12 m²



guest room / extra bedroom



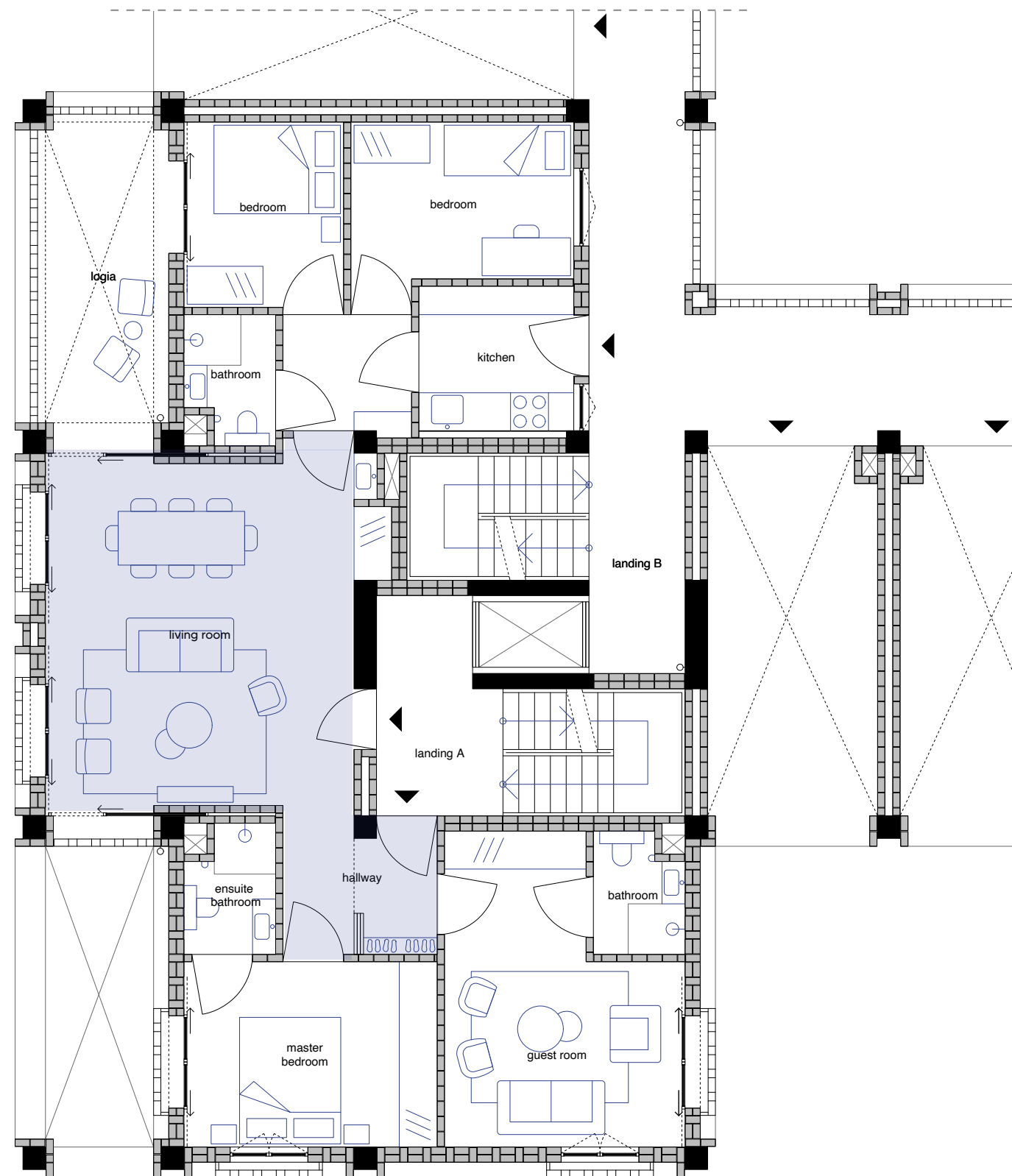
bedrooms = 3 / 4



bathrooms = 3



price = ~7.200.000 tk (€ 50.000)



Type A:



interior floor area = 98 m²



exterior floor area = 12 m²



guest room / extra bedroom



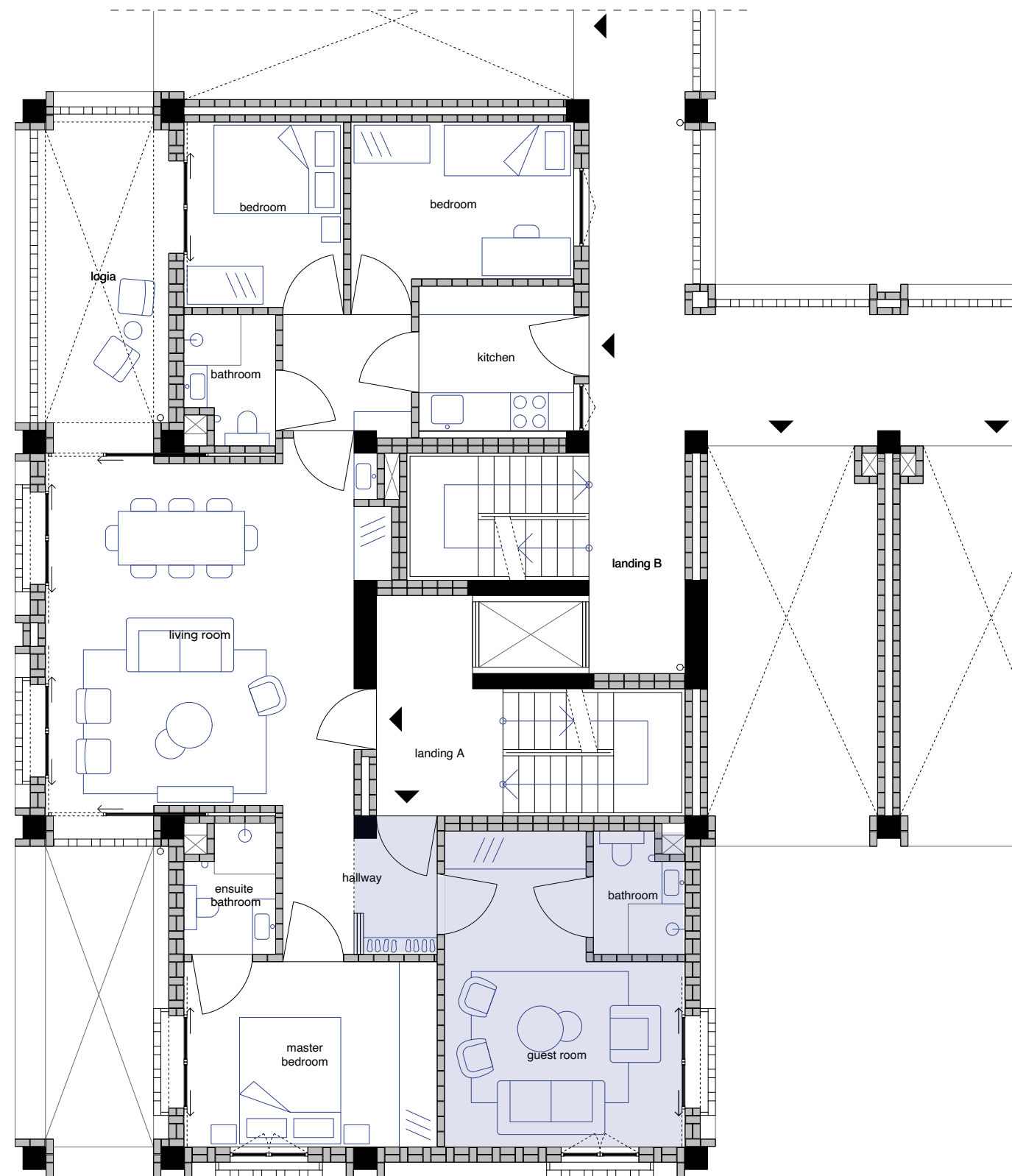
bedrooms = 3 / 4



bathrooms = 3



price = ~7.200.000 tk (€ 50.000)



Type A:



interior floor area = 98 m²



exterior floor area = 12 m²



guest room / extra bedroom



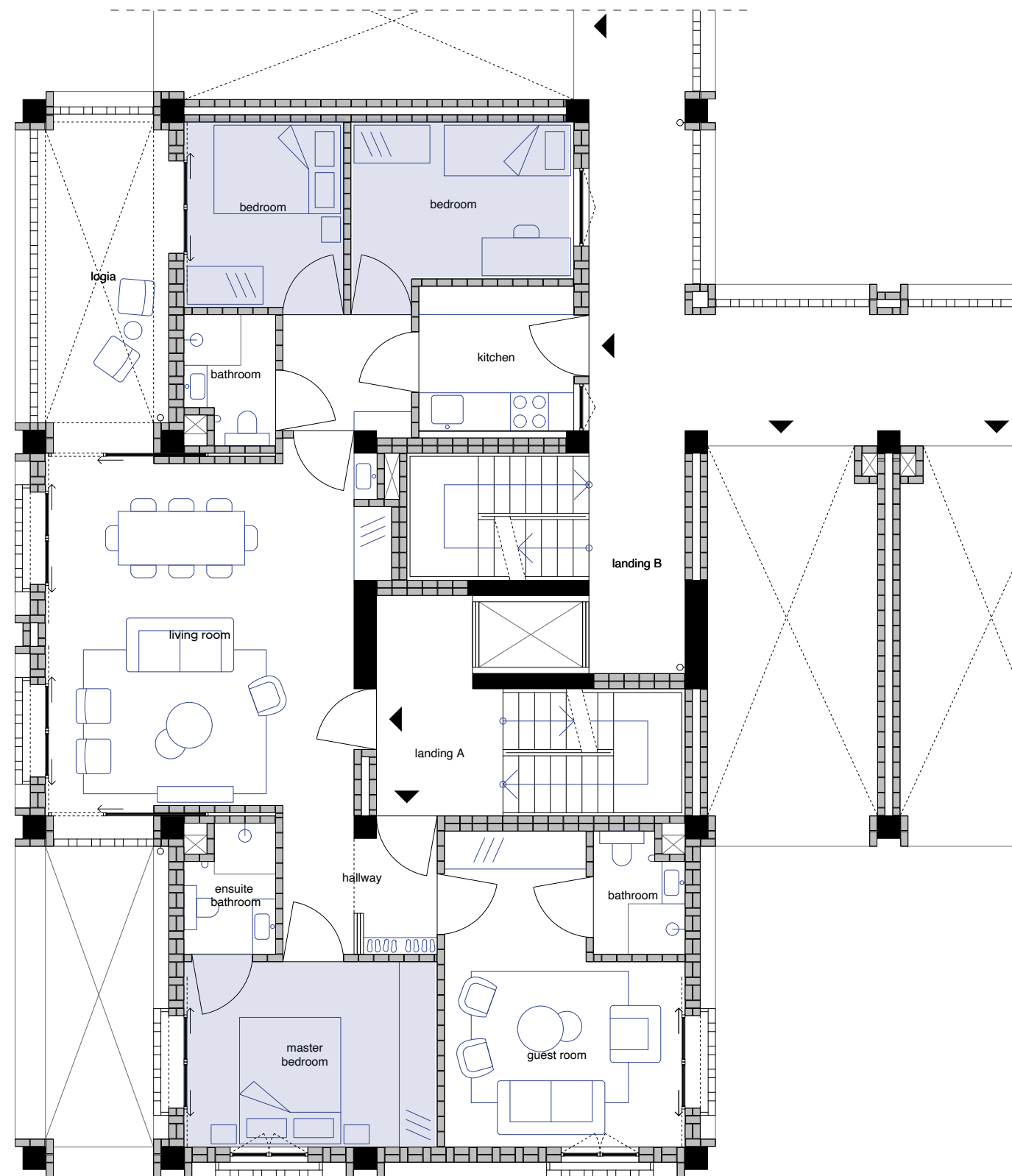
bedrooms = 3 / 4



bathrooms = 3



price = ~7.200.000 tk (€ 50.000)



Type A:



interior floor area = 98 m²



exterior floor area = 12 m²



guest room / extra bedroom



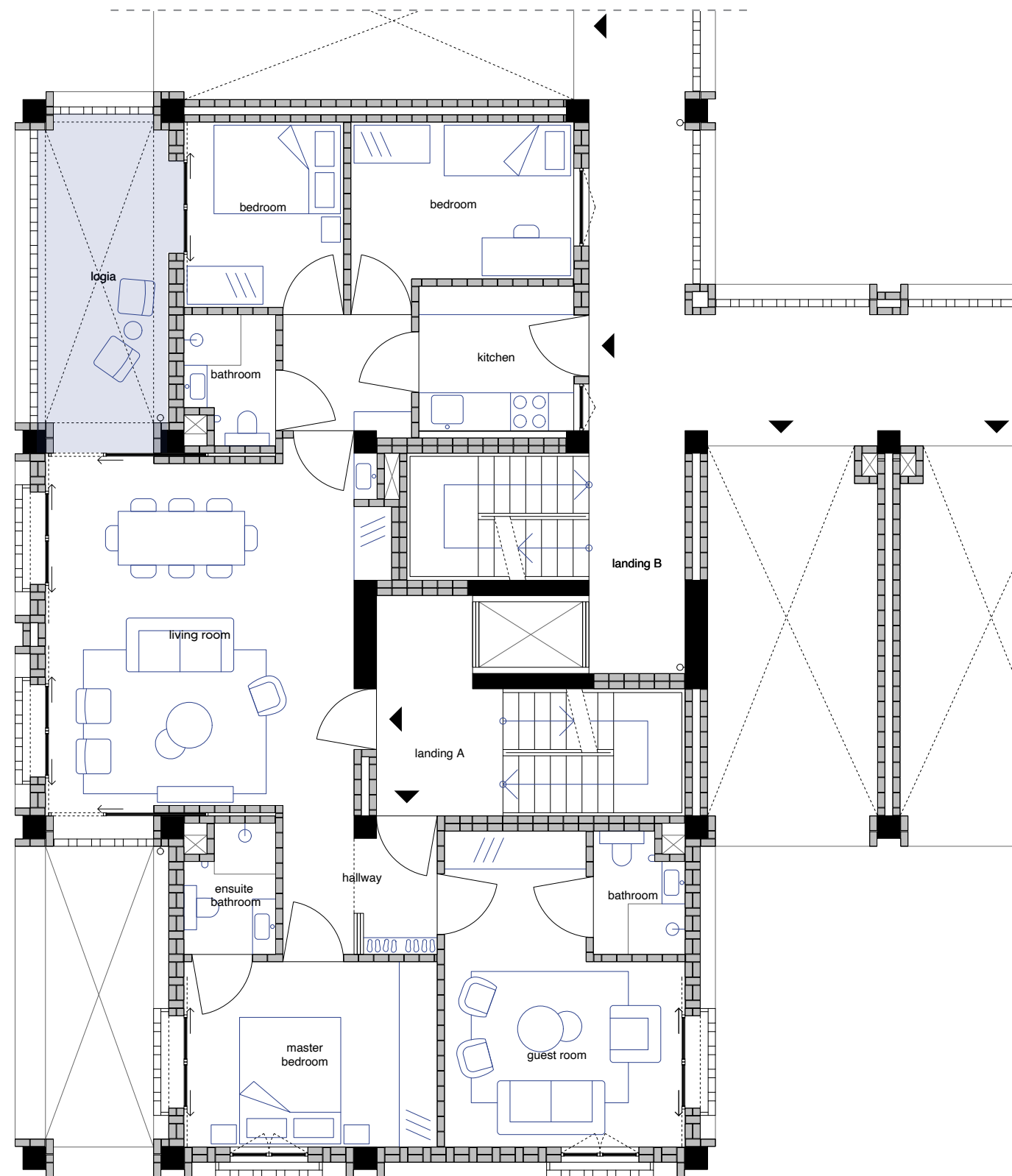
bedrooms = 3 / 4

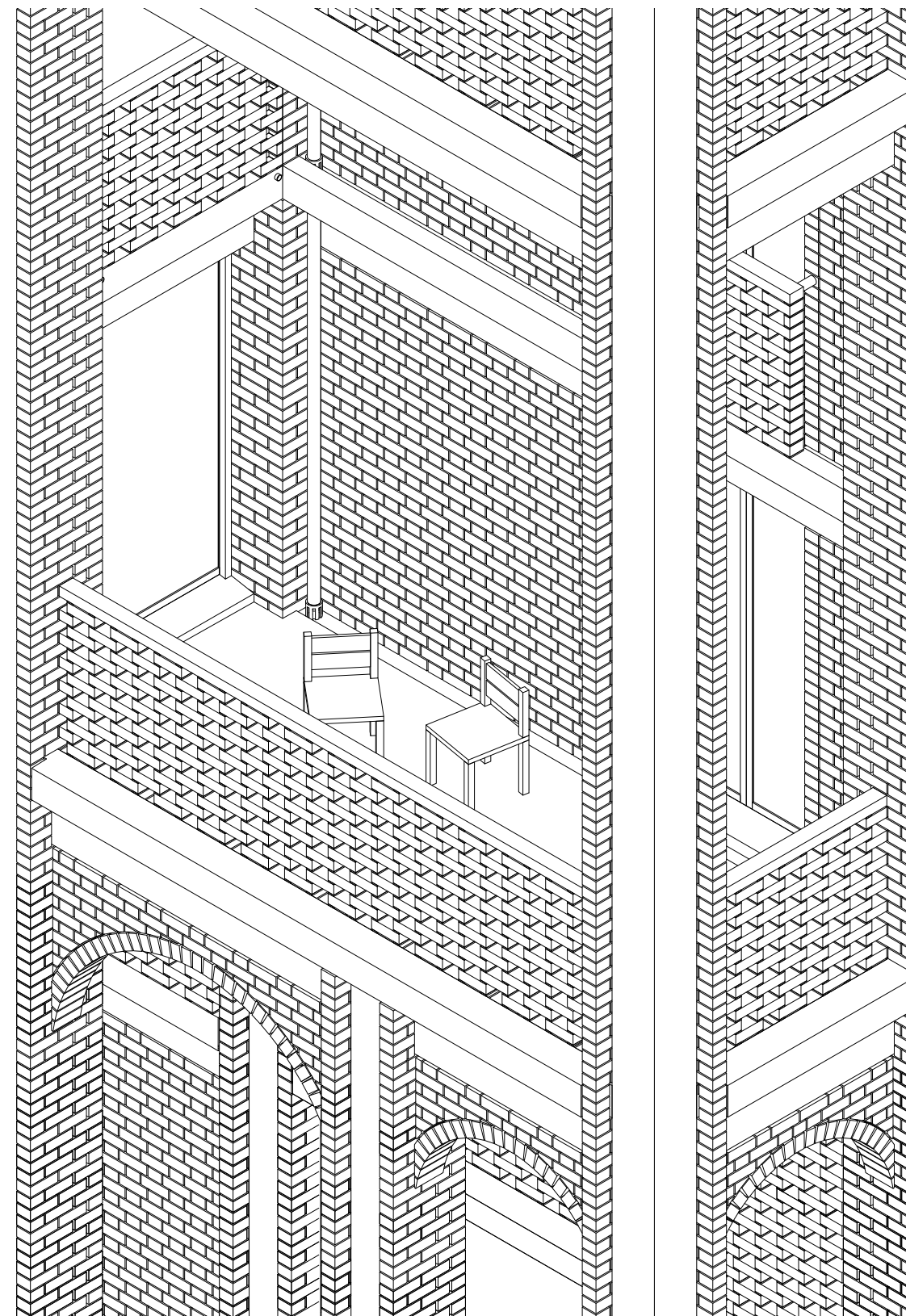
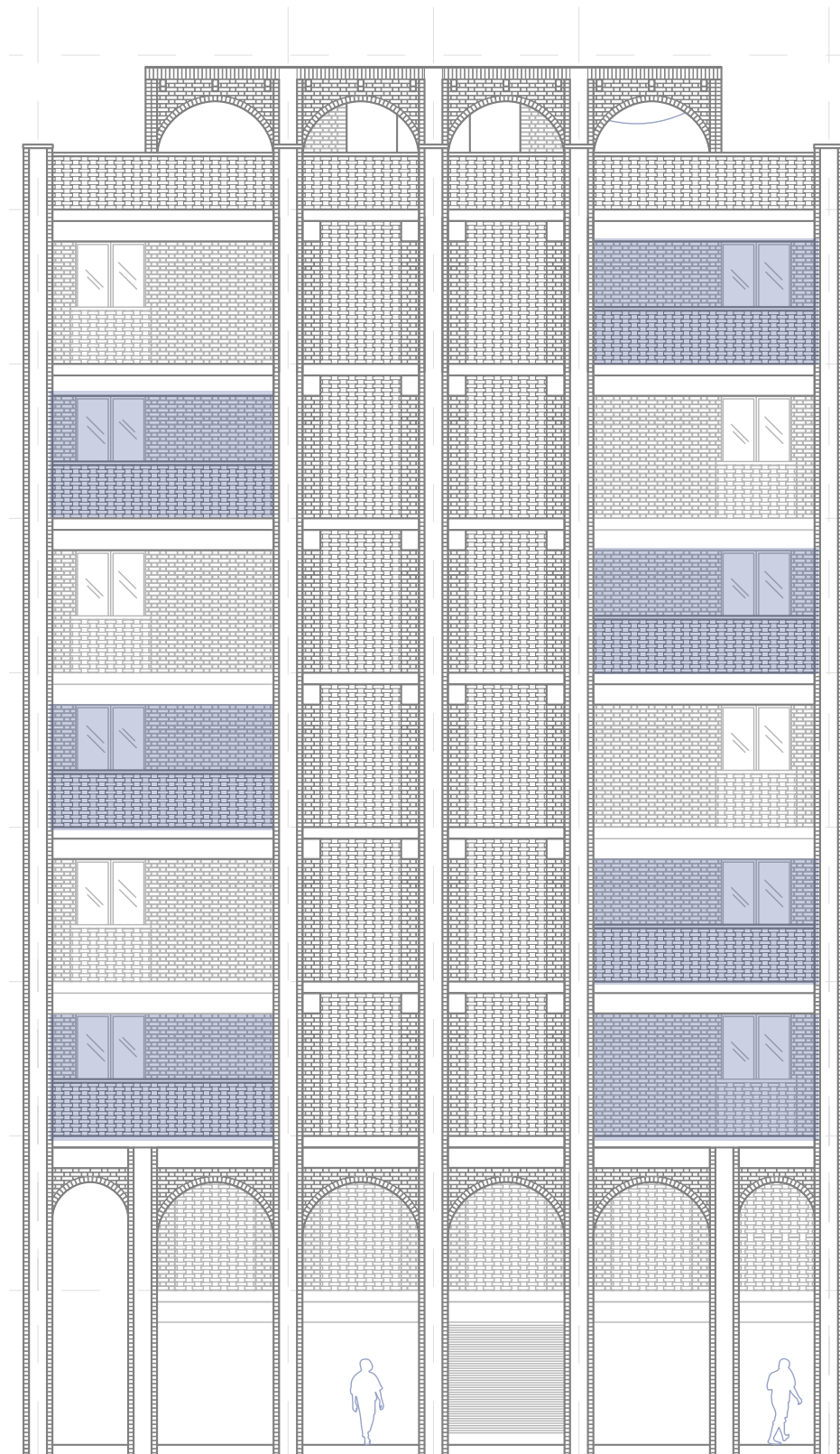


bathrooms = 3



price = ~7.200.000 tk (€ 50.000)





Type A:



interior floor area = 98 m²



exterior floor area = 12 m²



guest room / extra bedroom



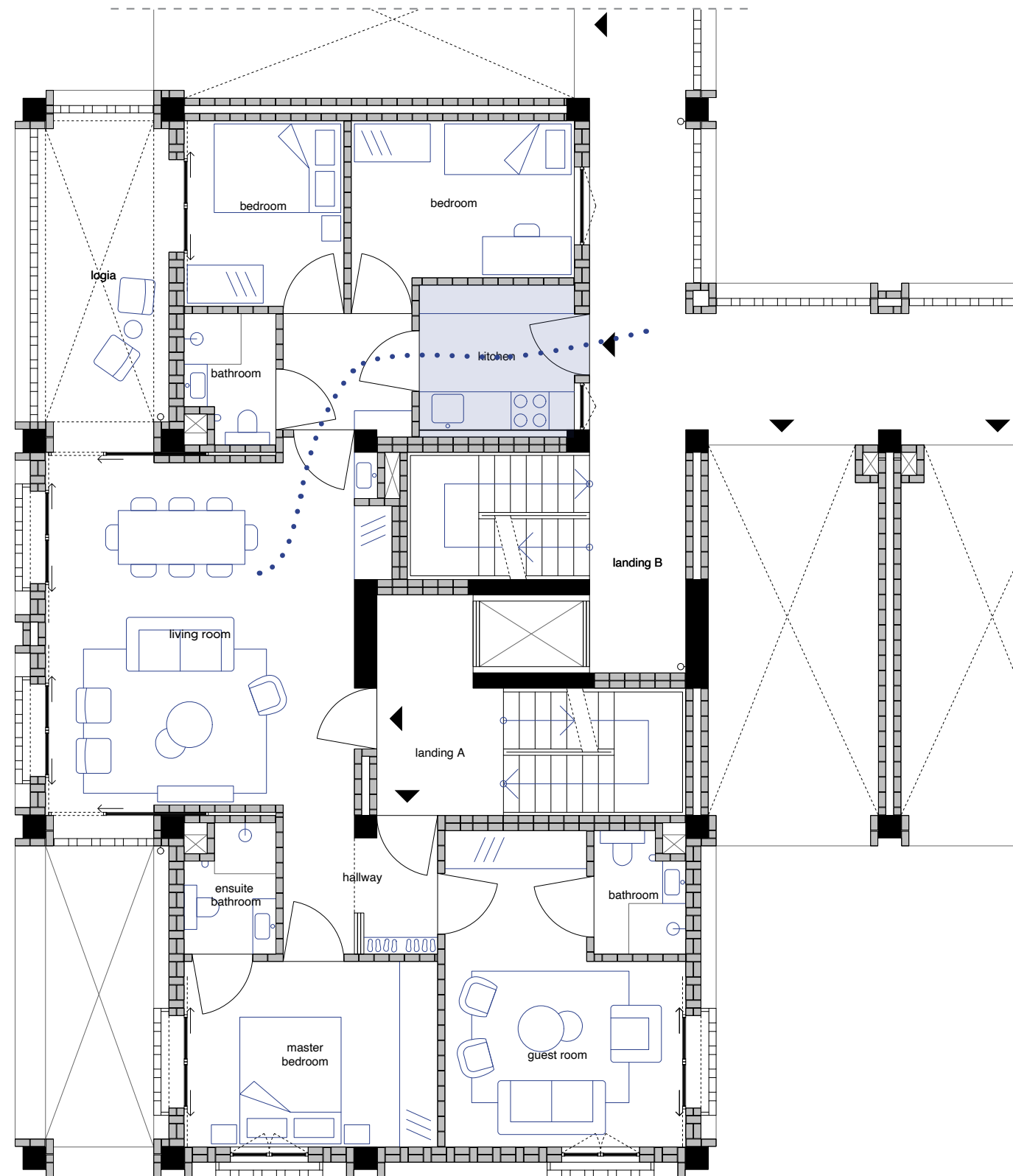
bedrooms = 3 / 4



bathrooms = 3



price = ~7.200.000 tk (€ 50.000)



Type B:



floor area = 17.5 - 41> m²



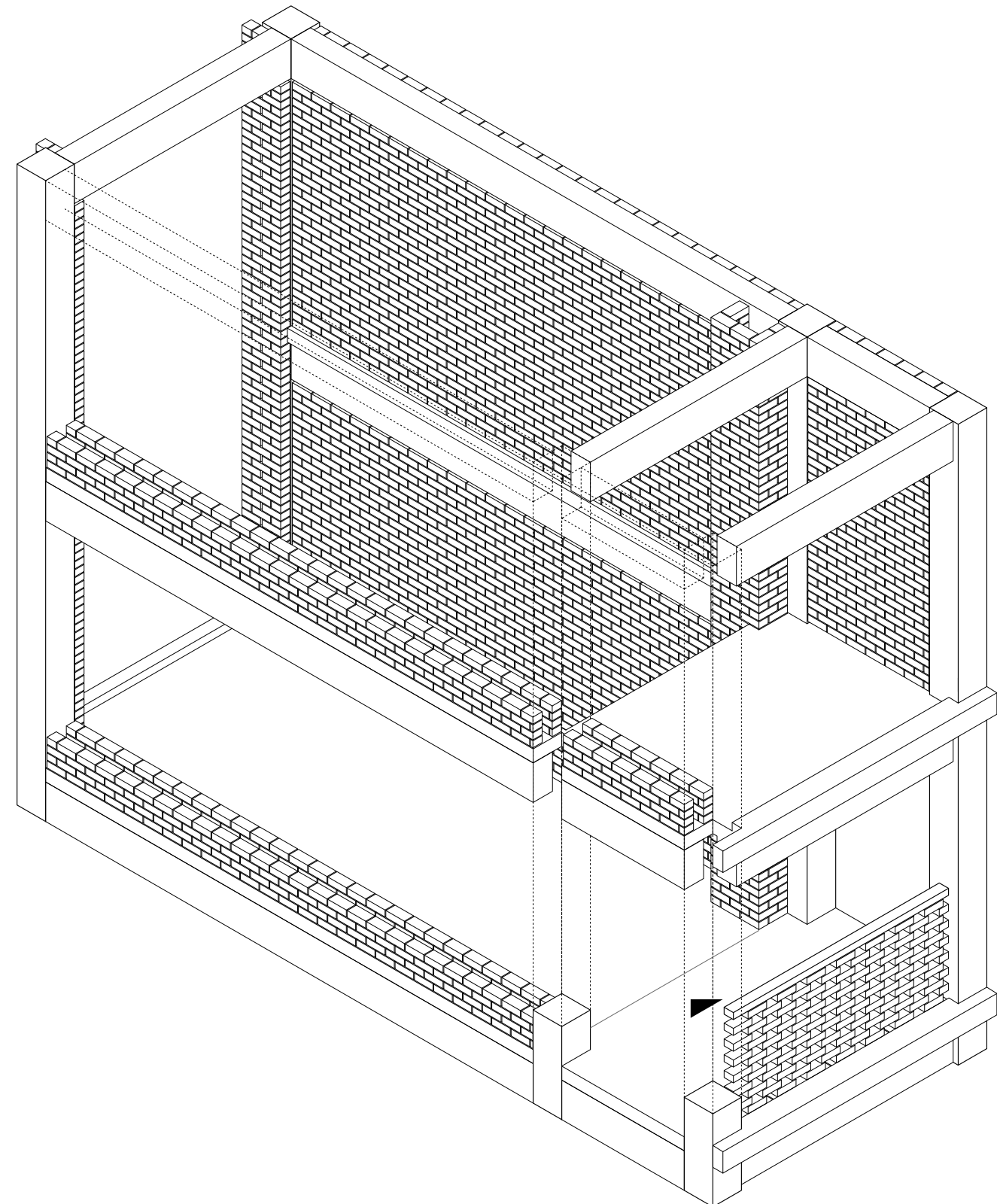
bedrooms = 0 >

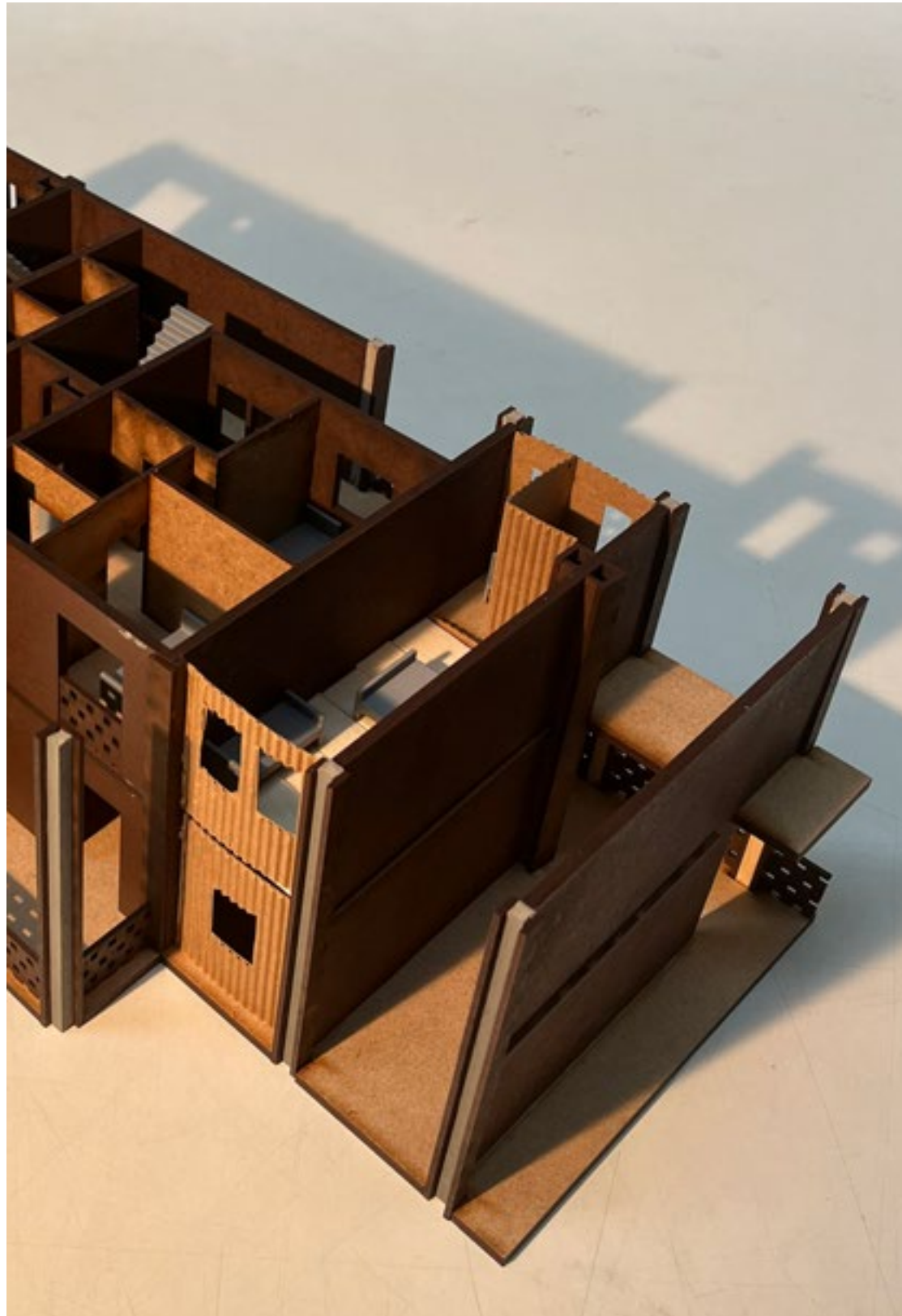


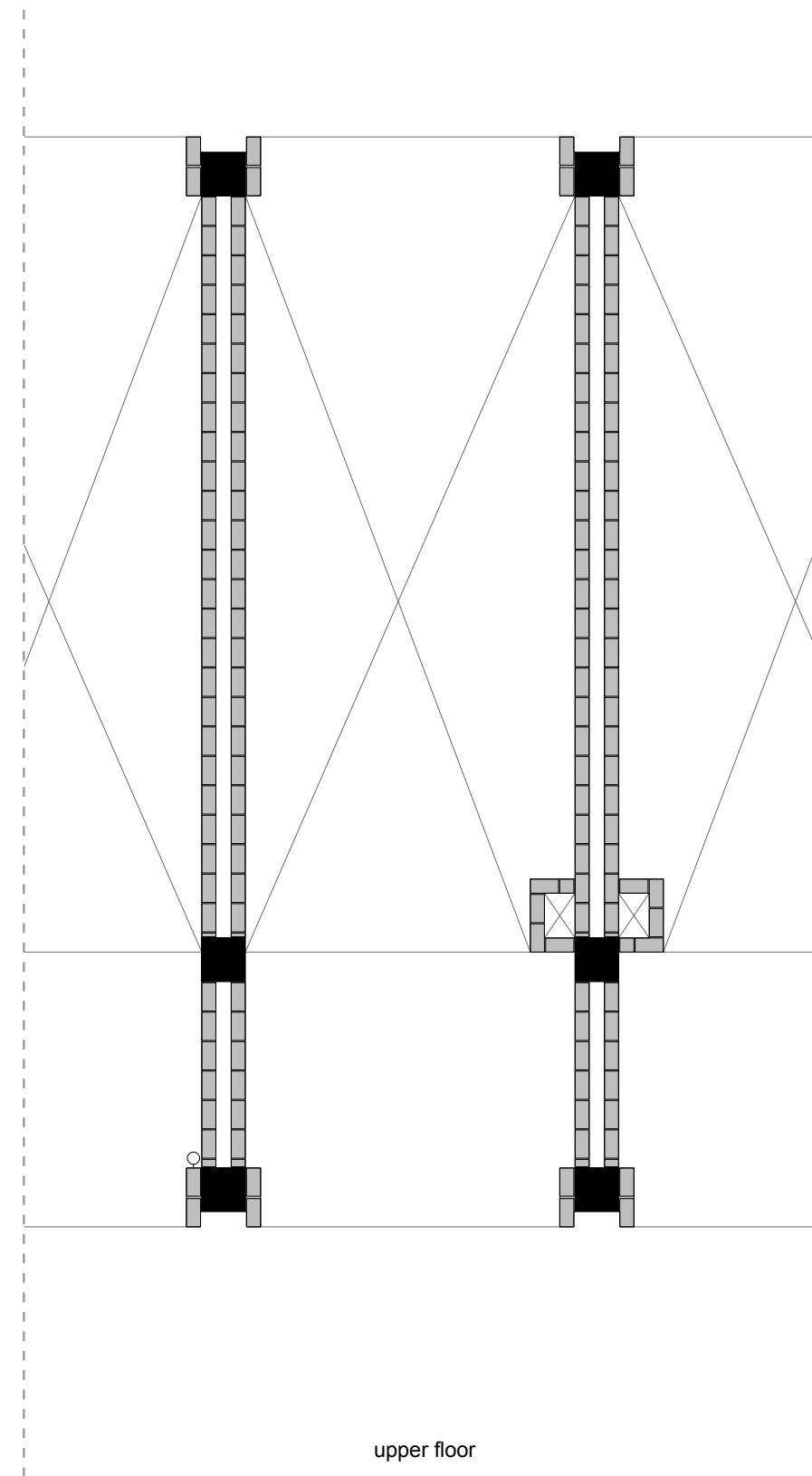
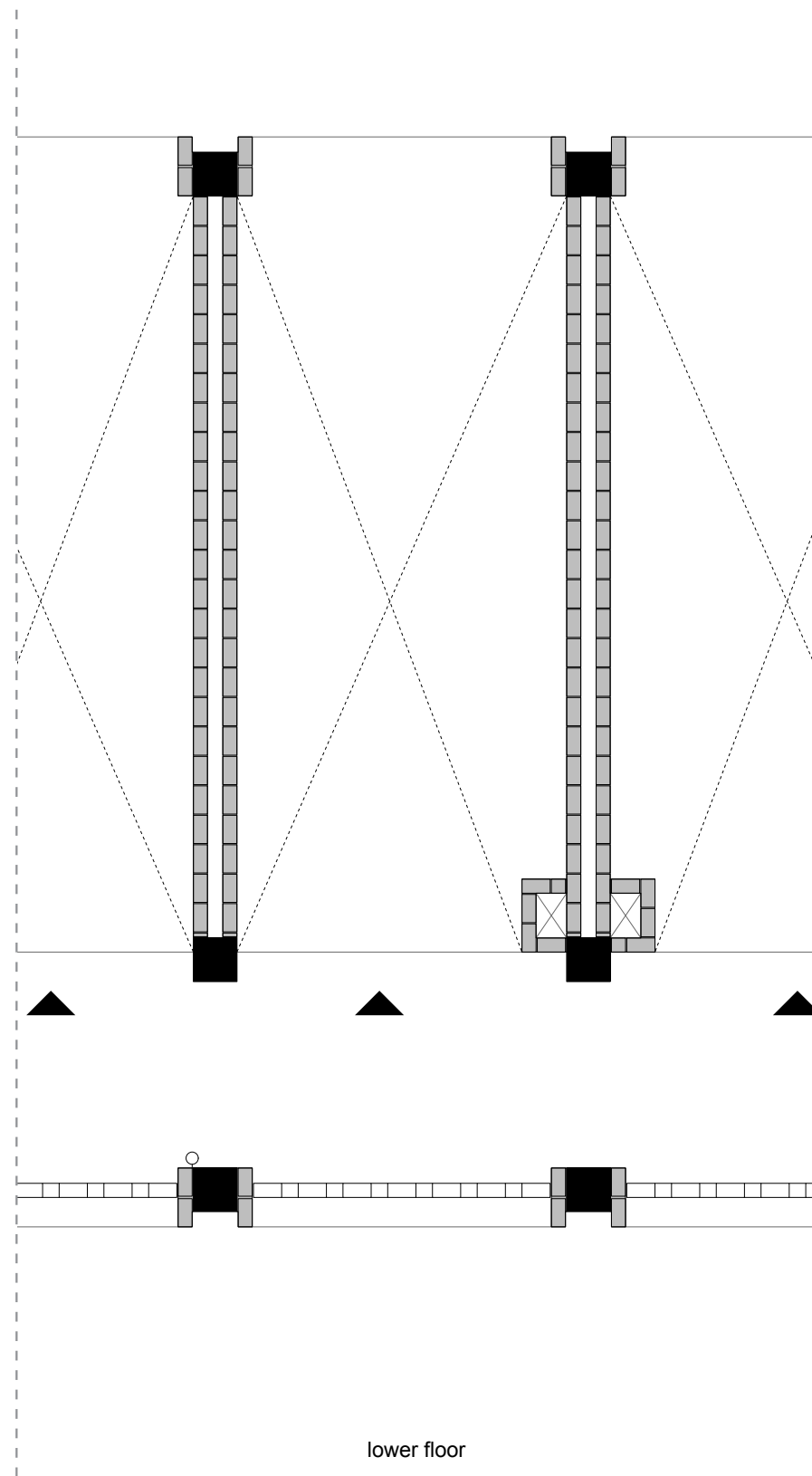
bathrooms = 0 >

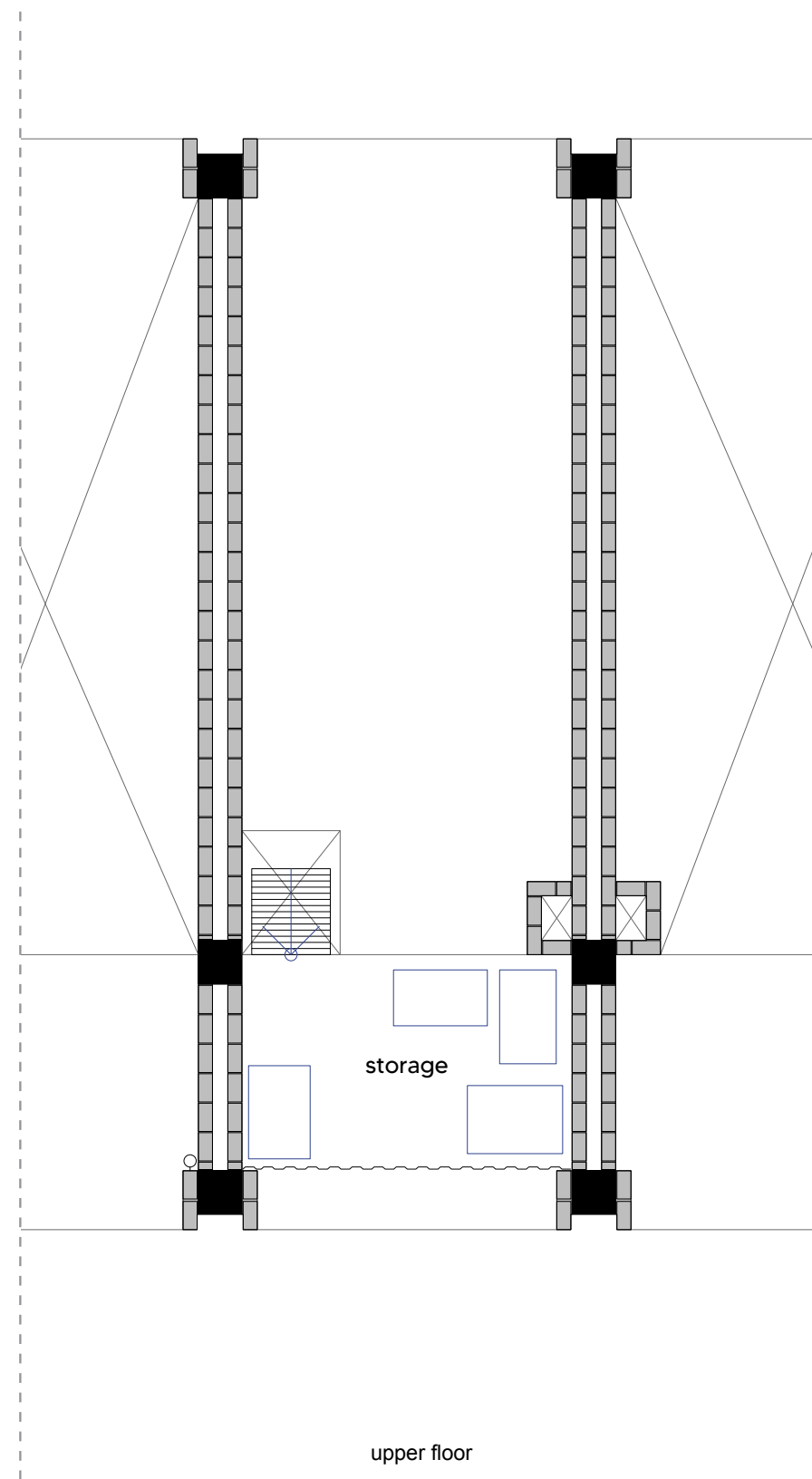
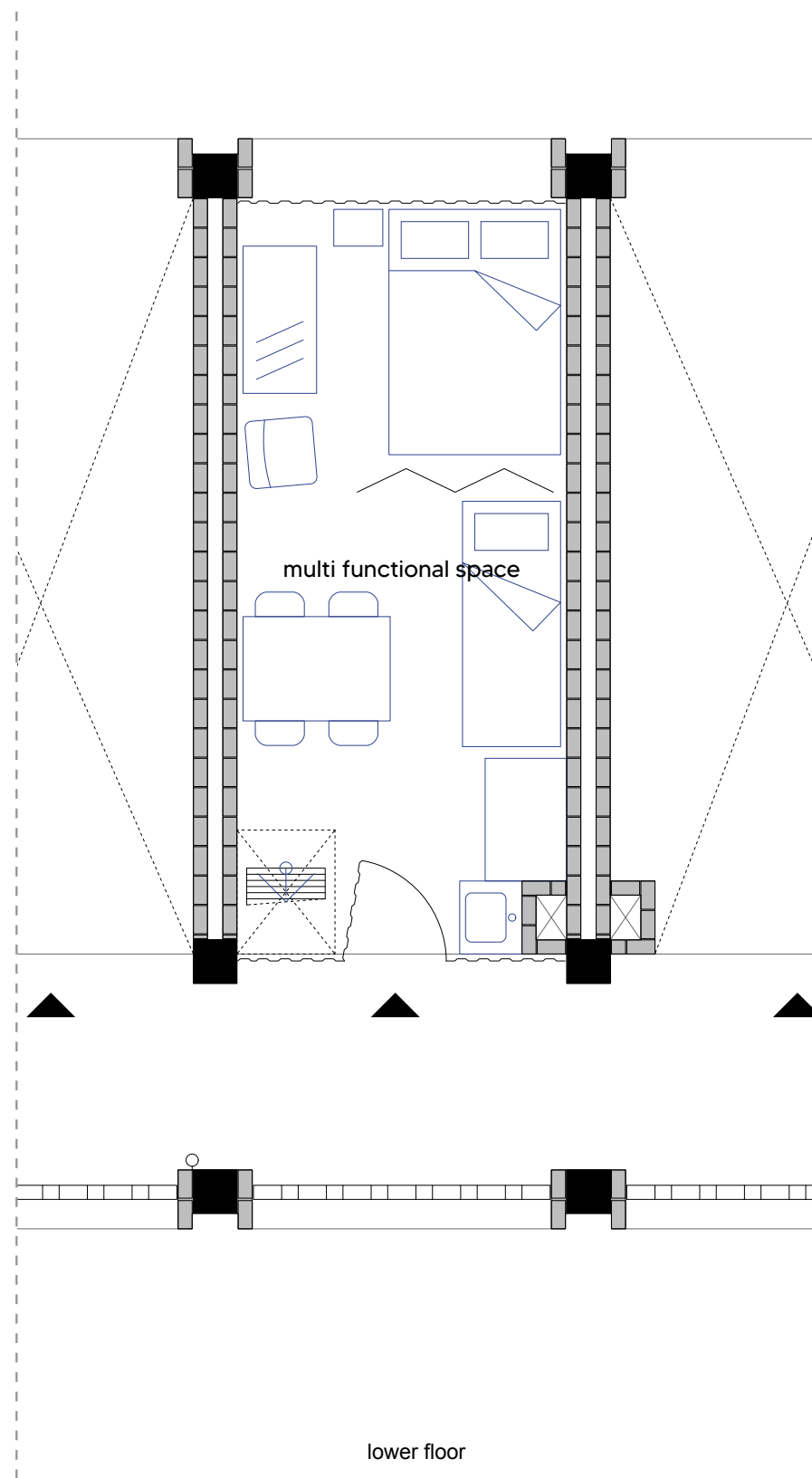


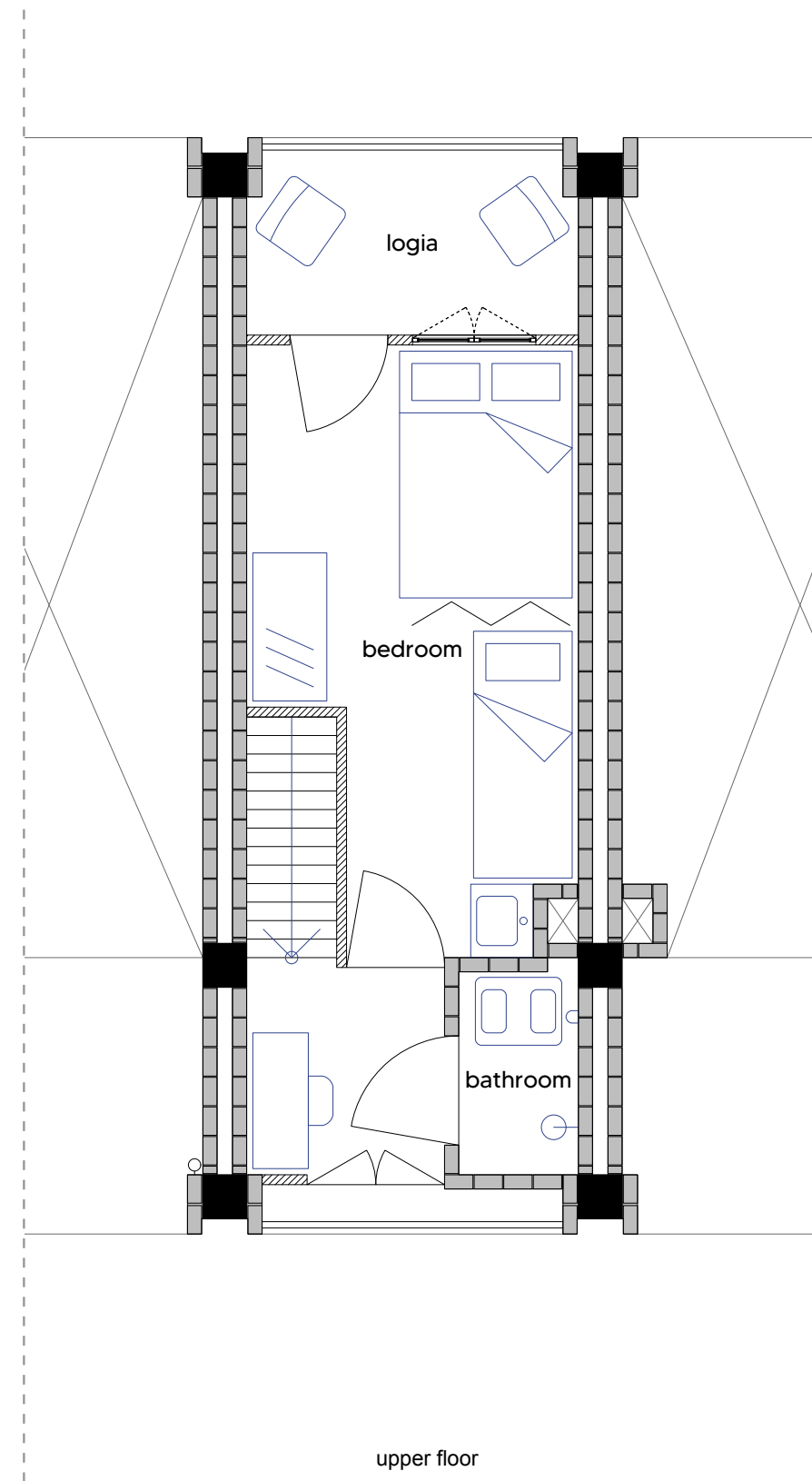
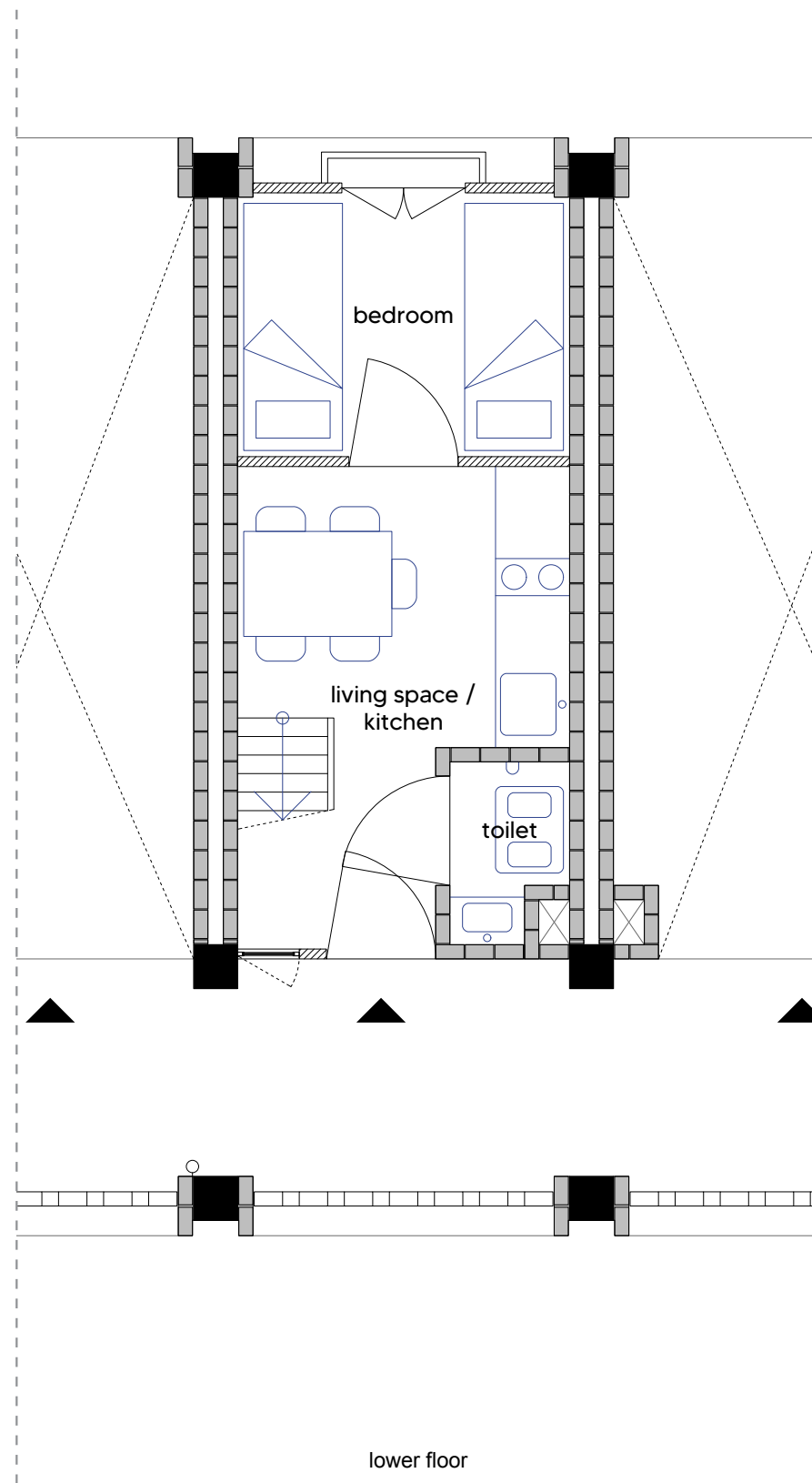
price = ~50.000 tk (€ 3.450)

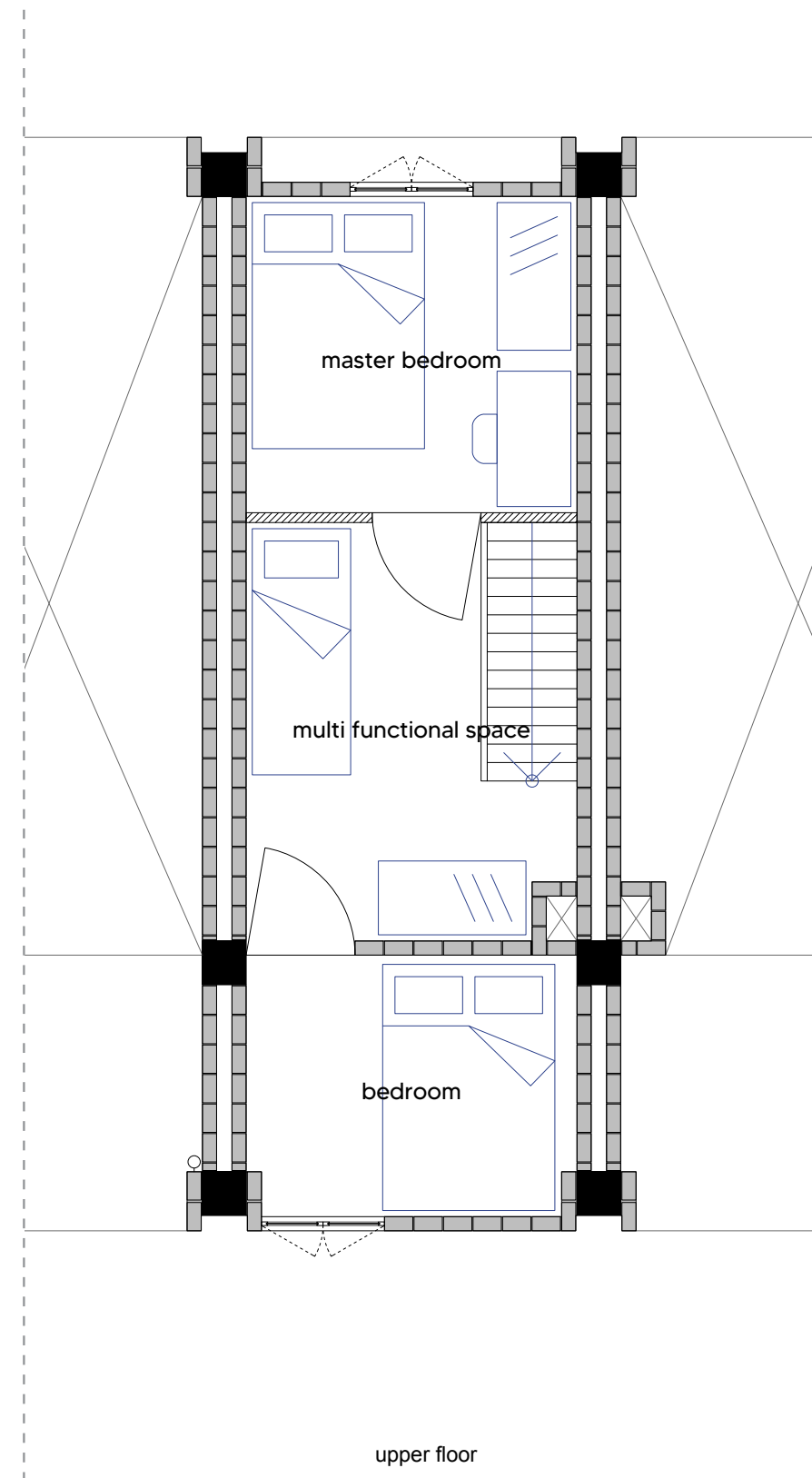
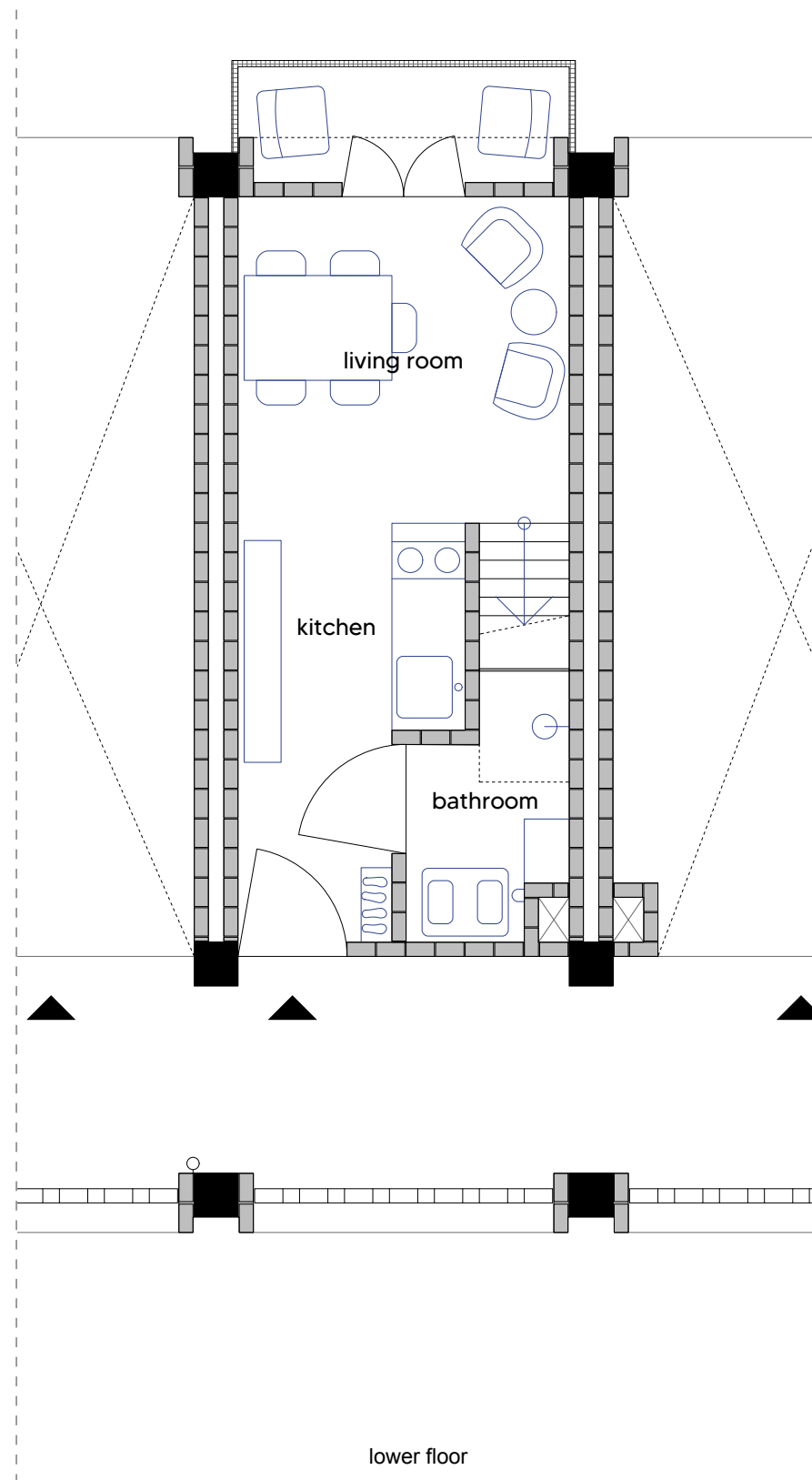






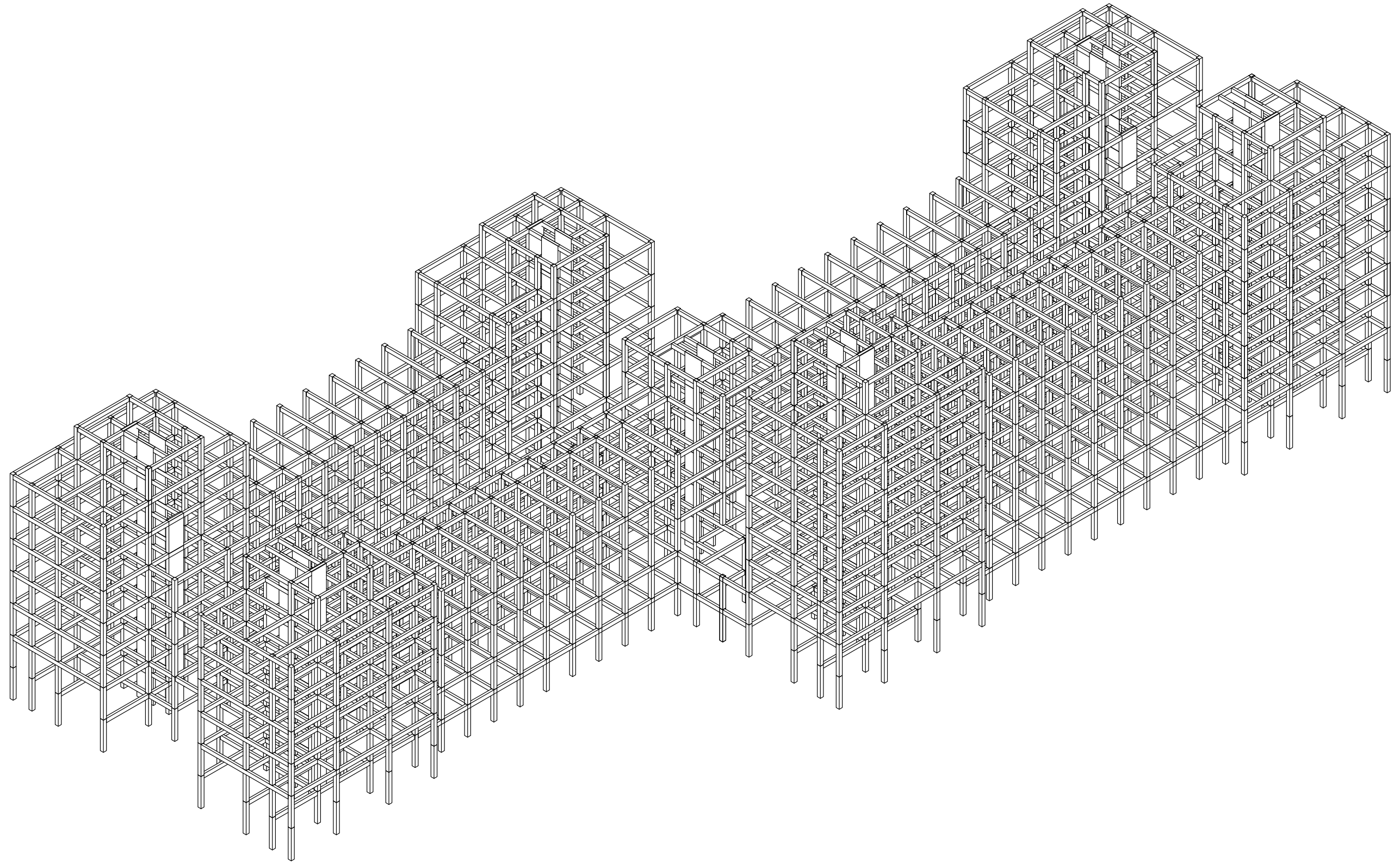


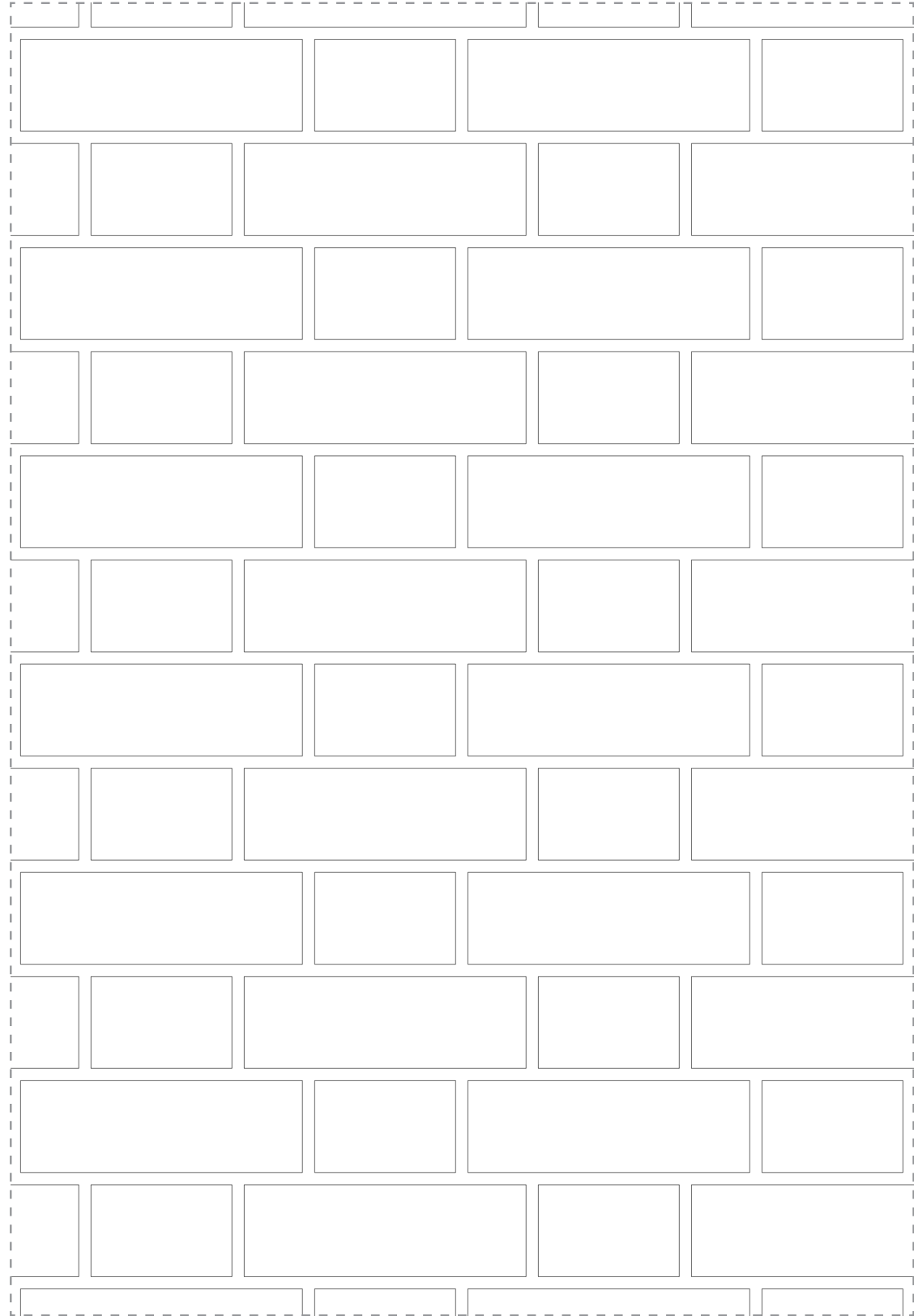


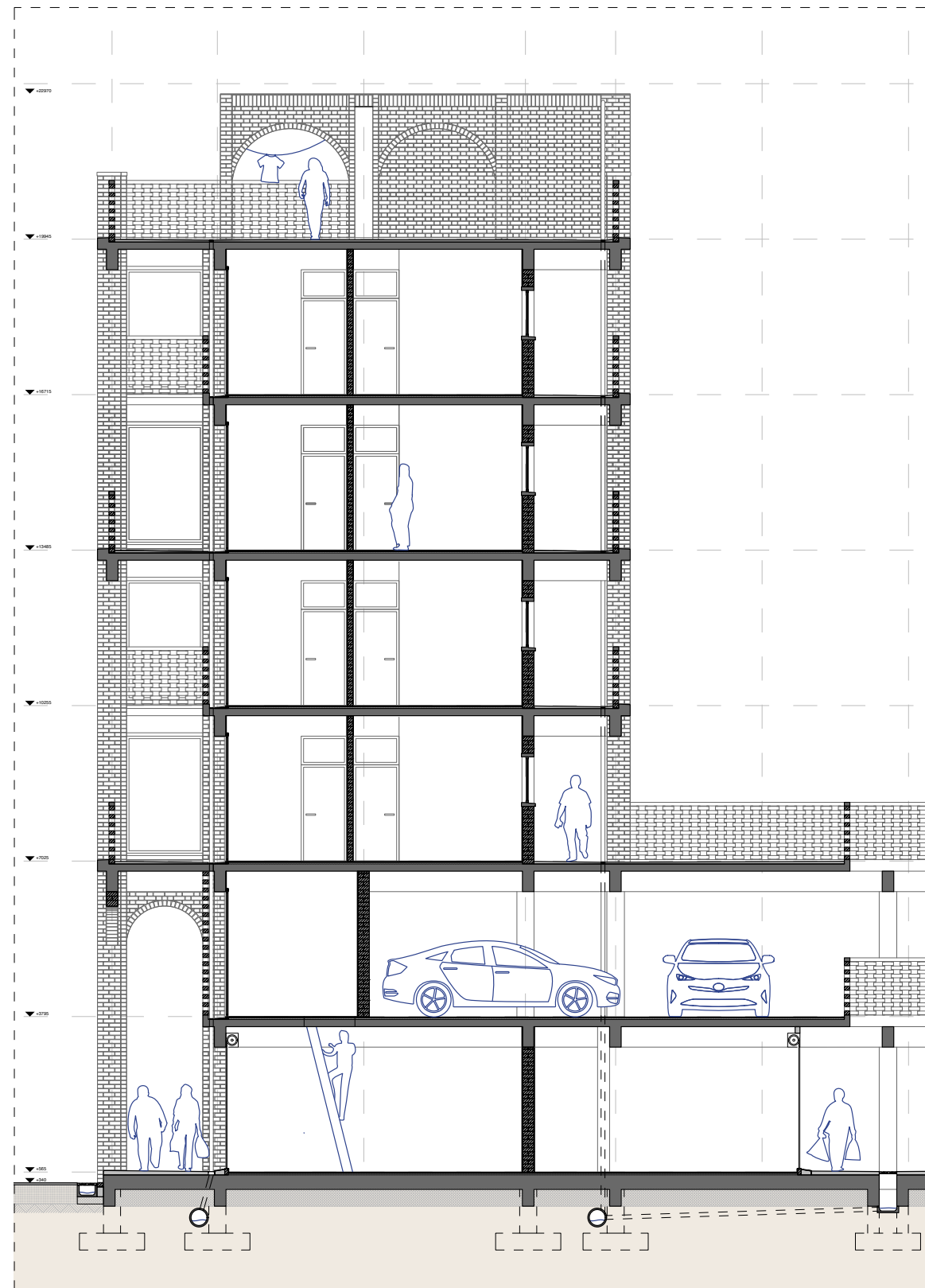


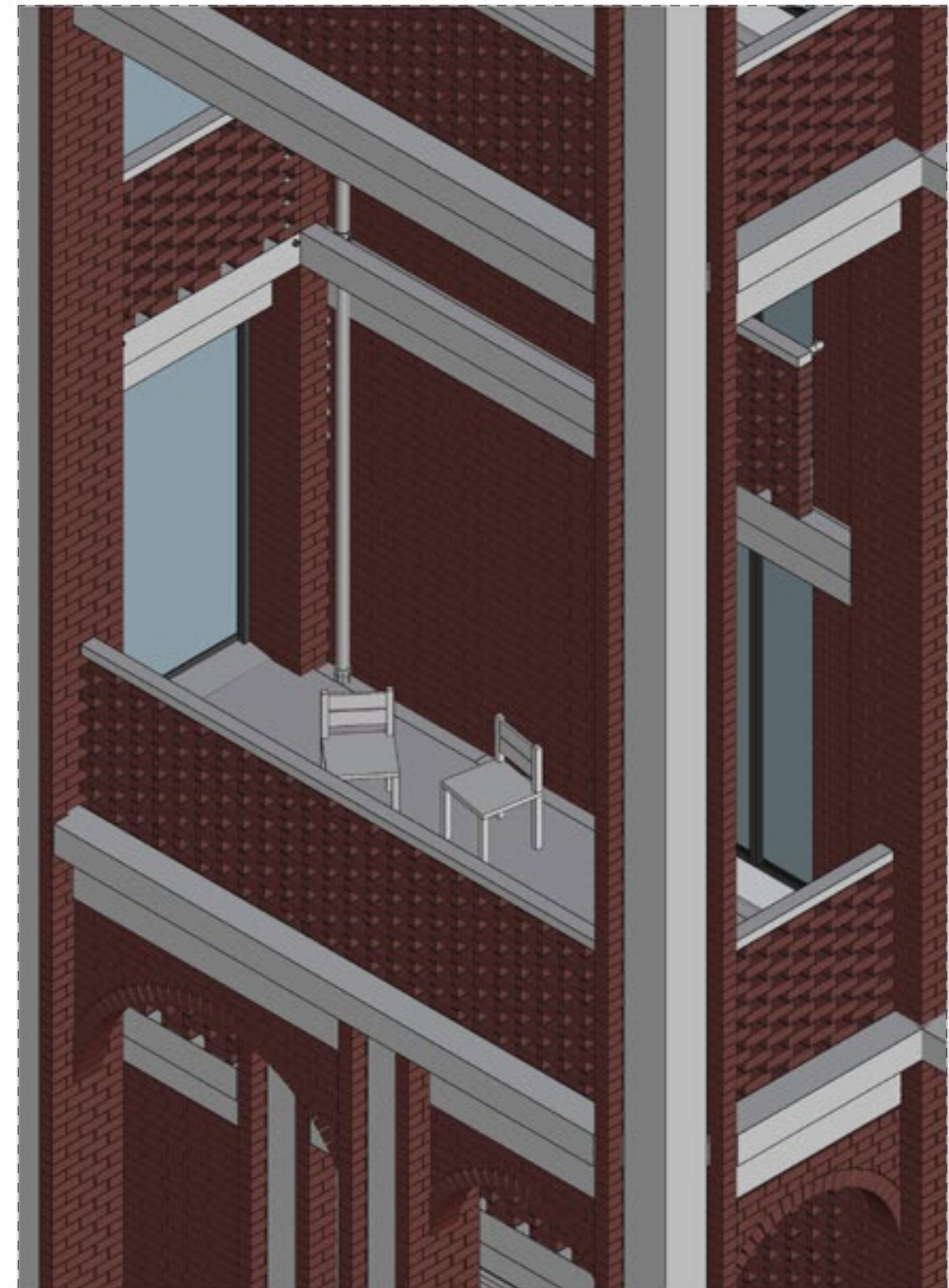
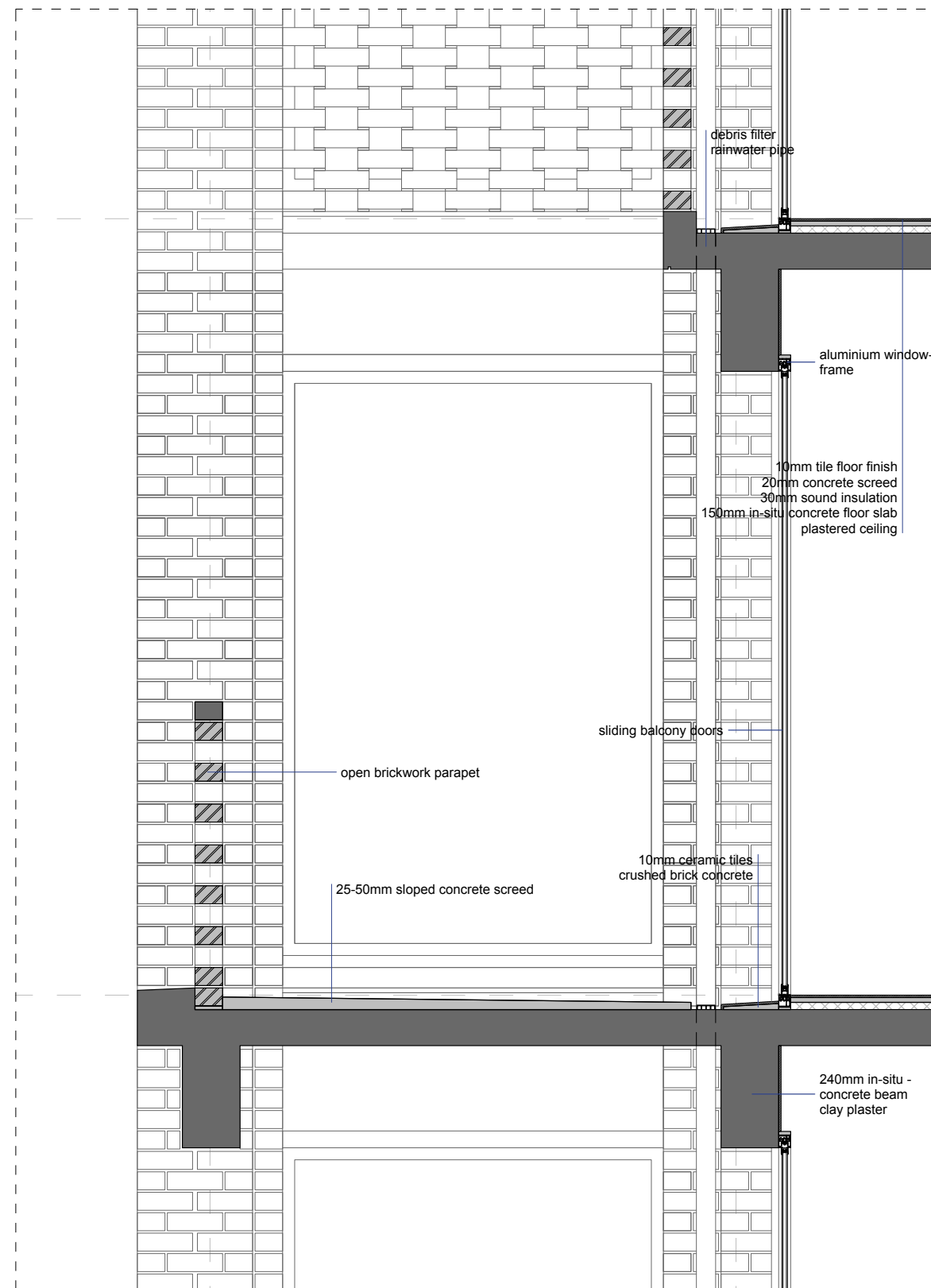
TECHNICAL DESIGN

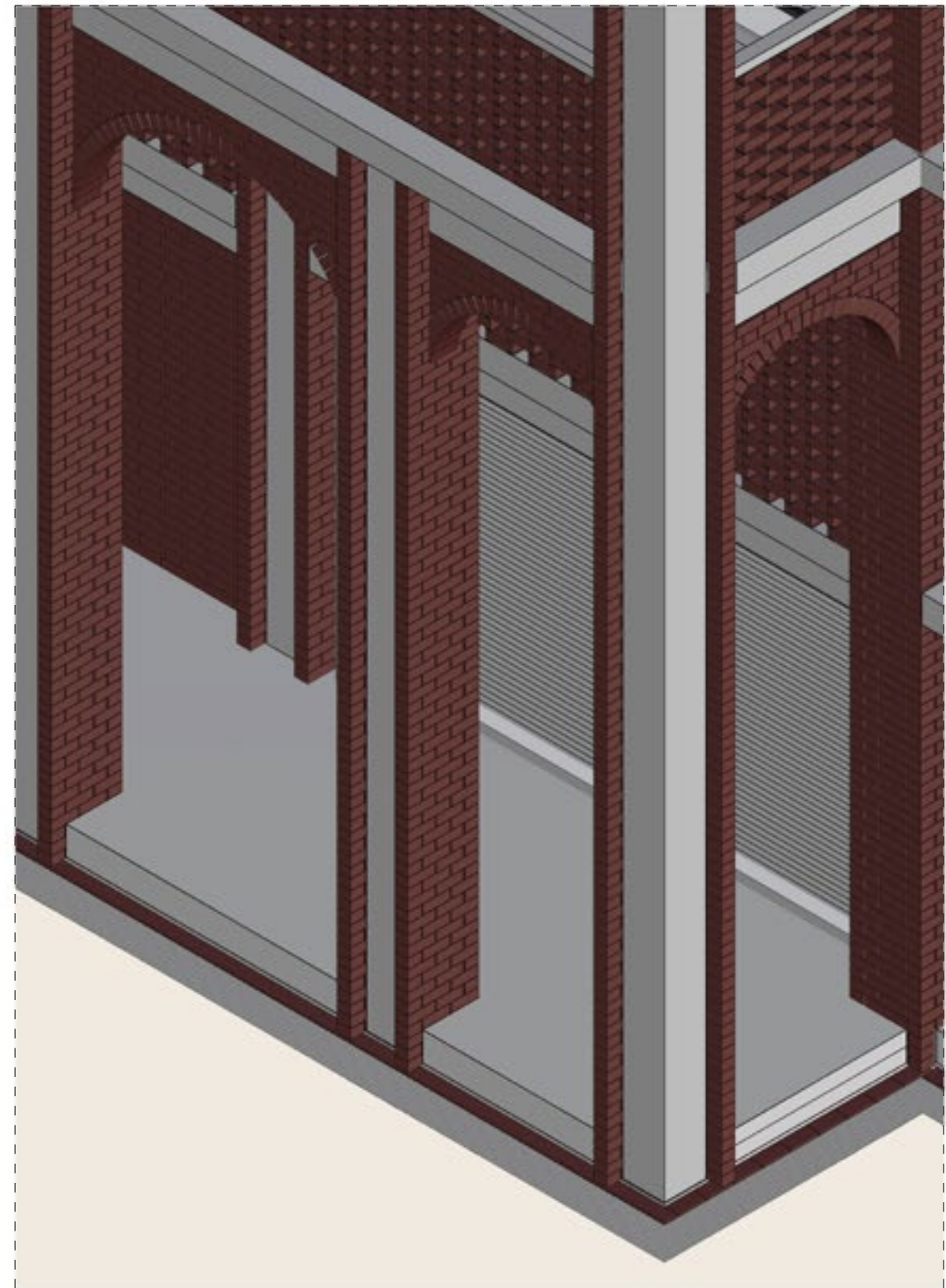
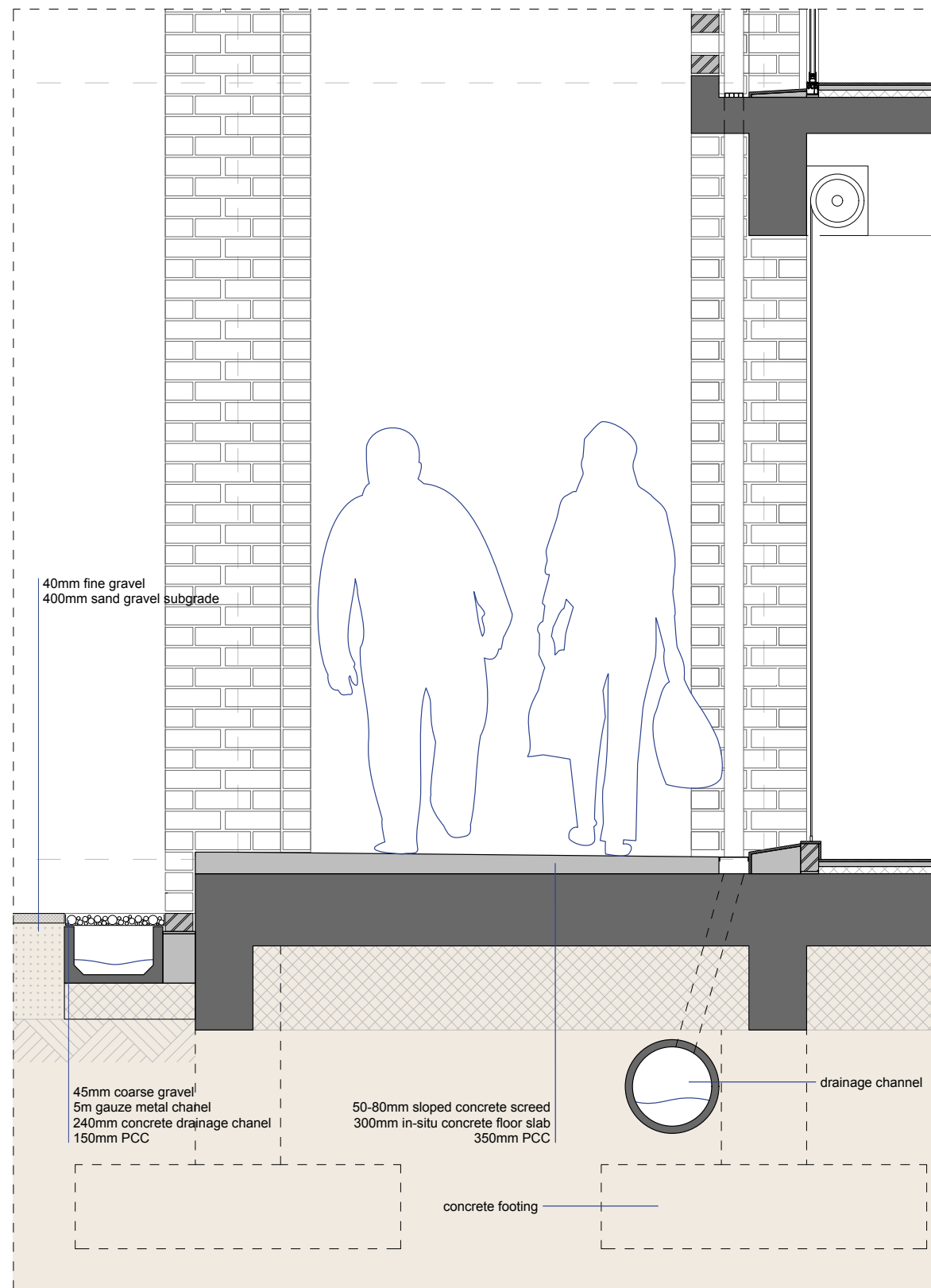




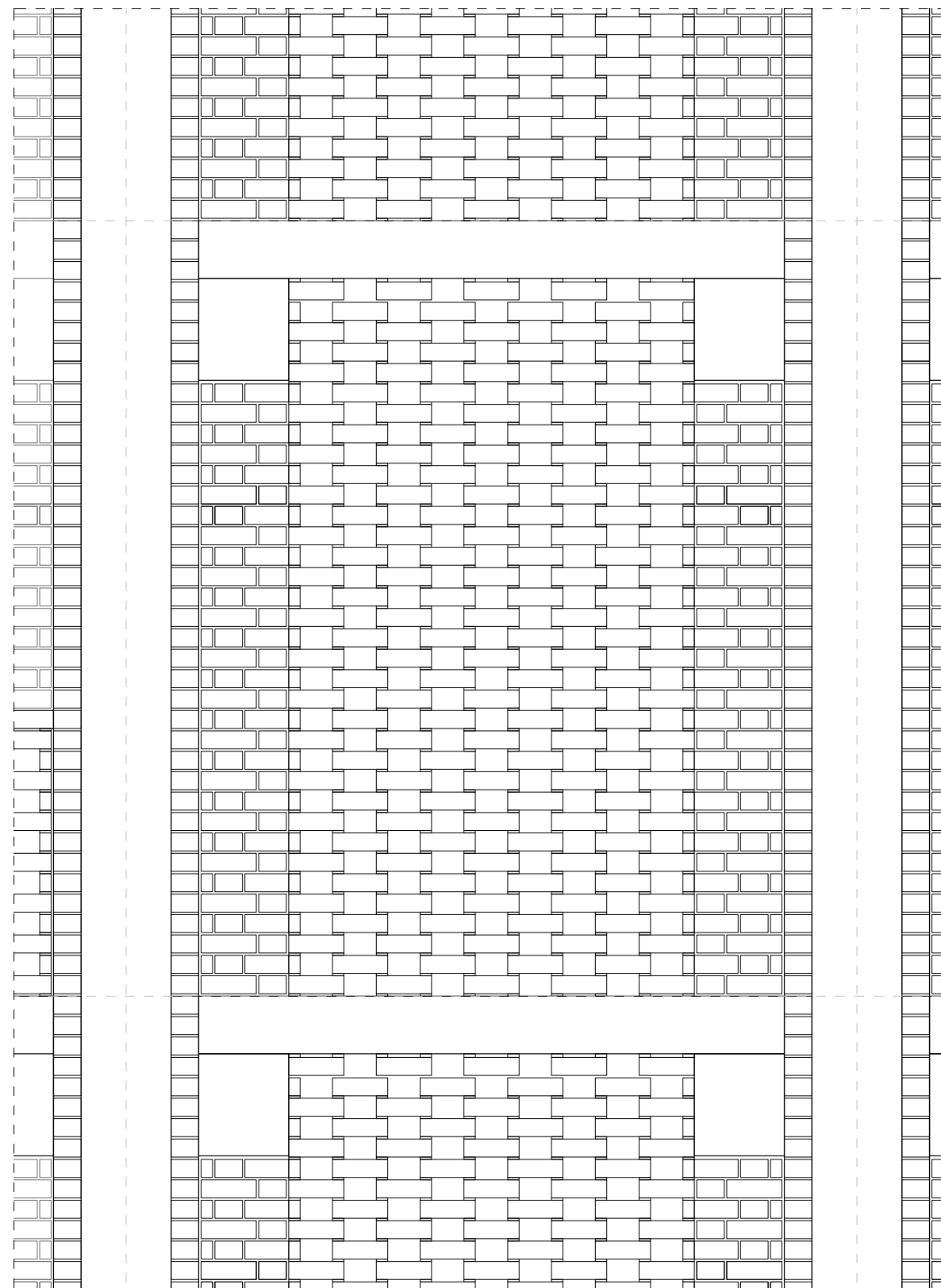
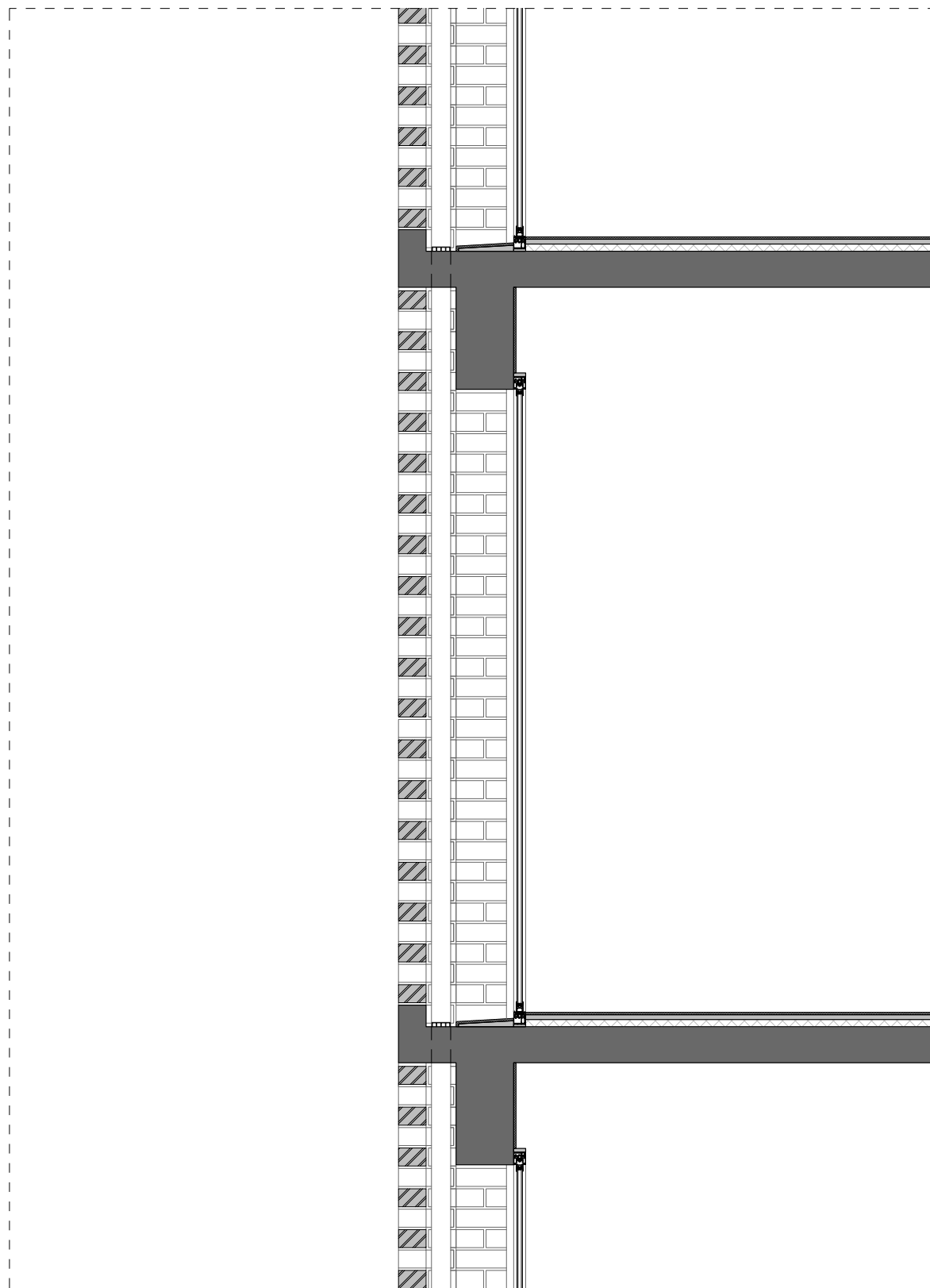


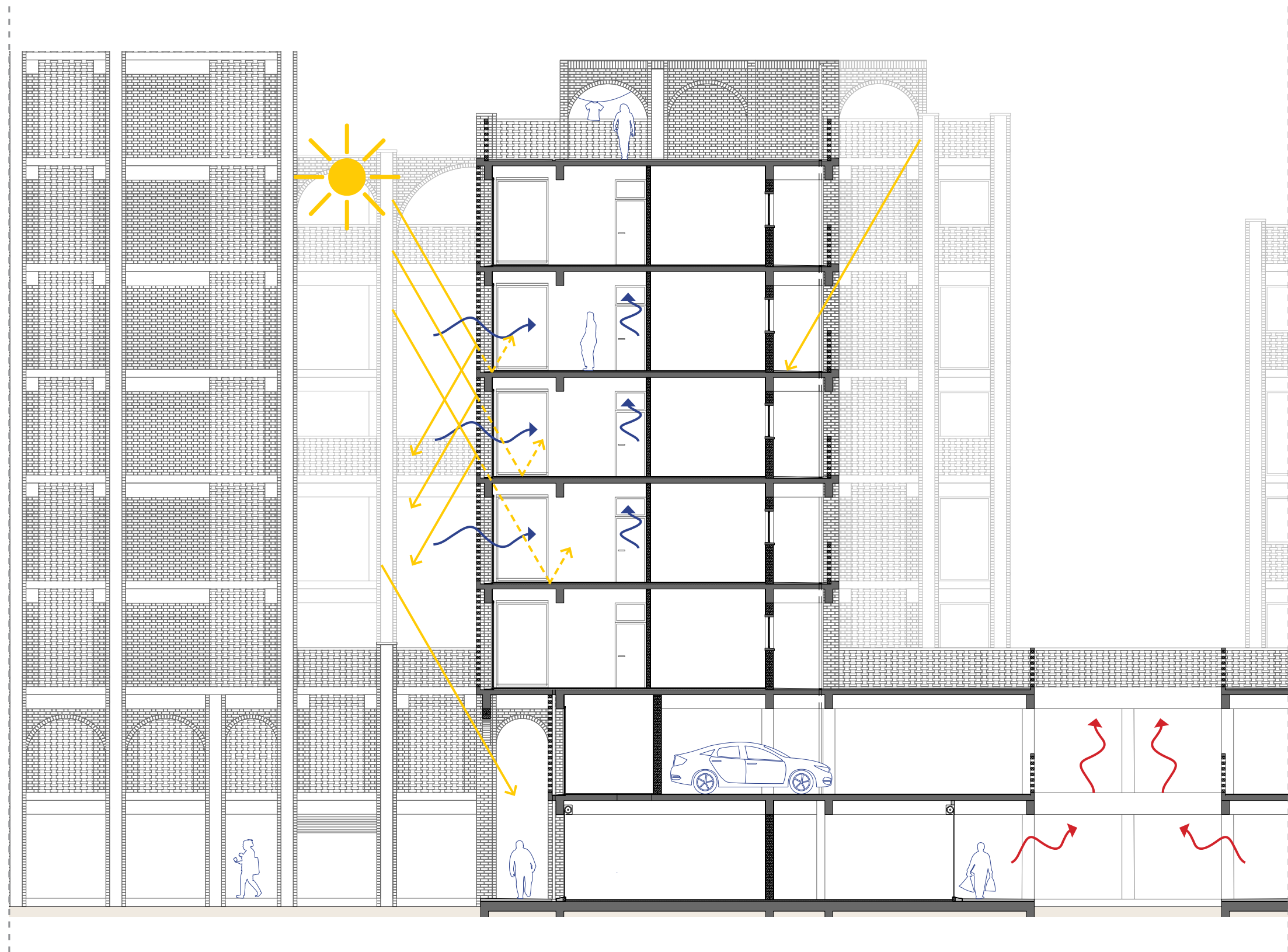


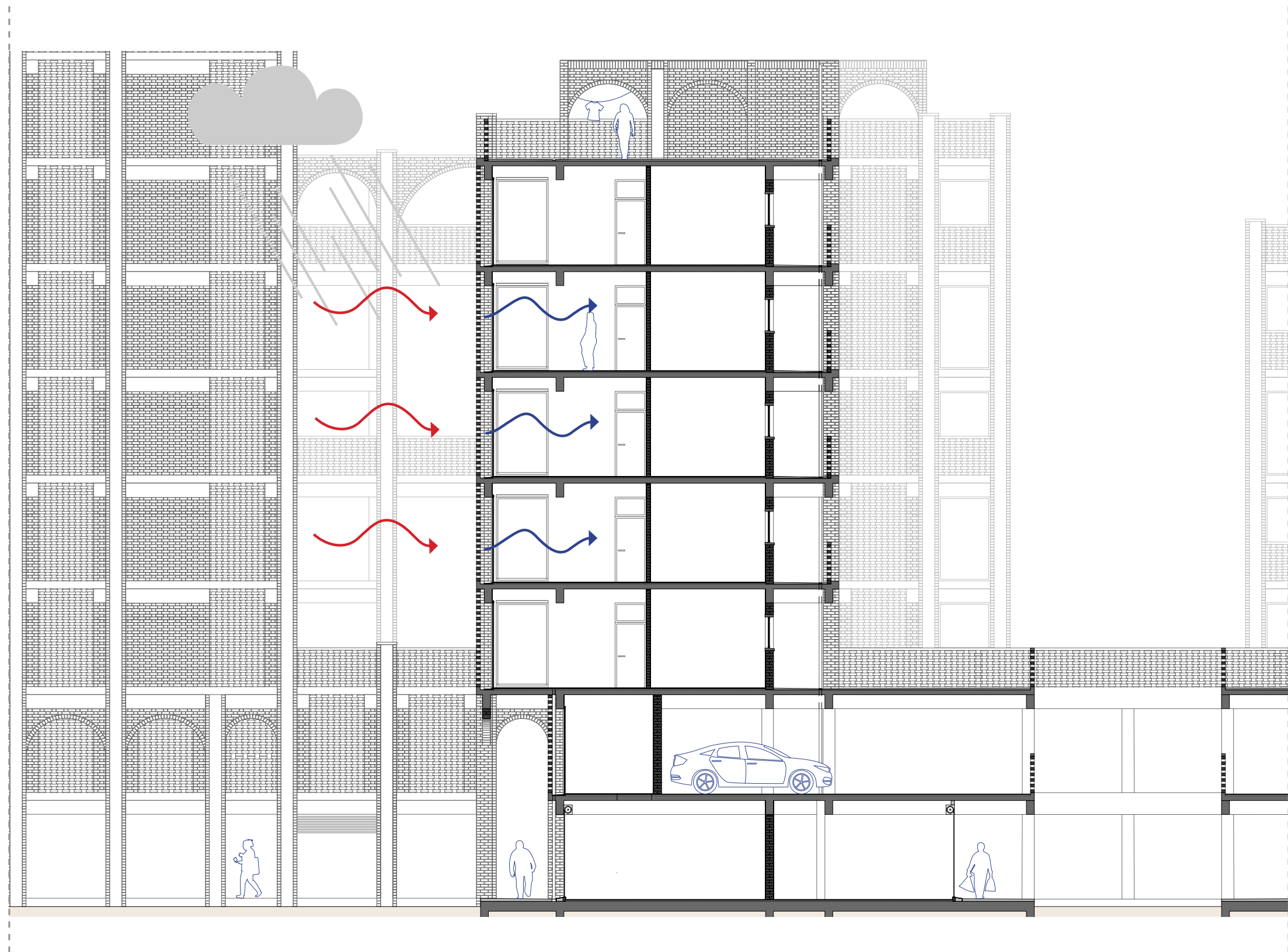


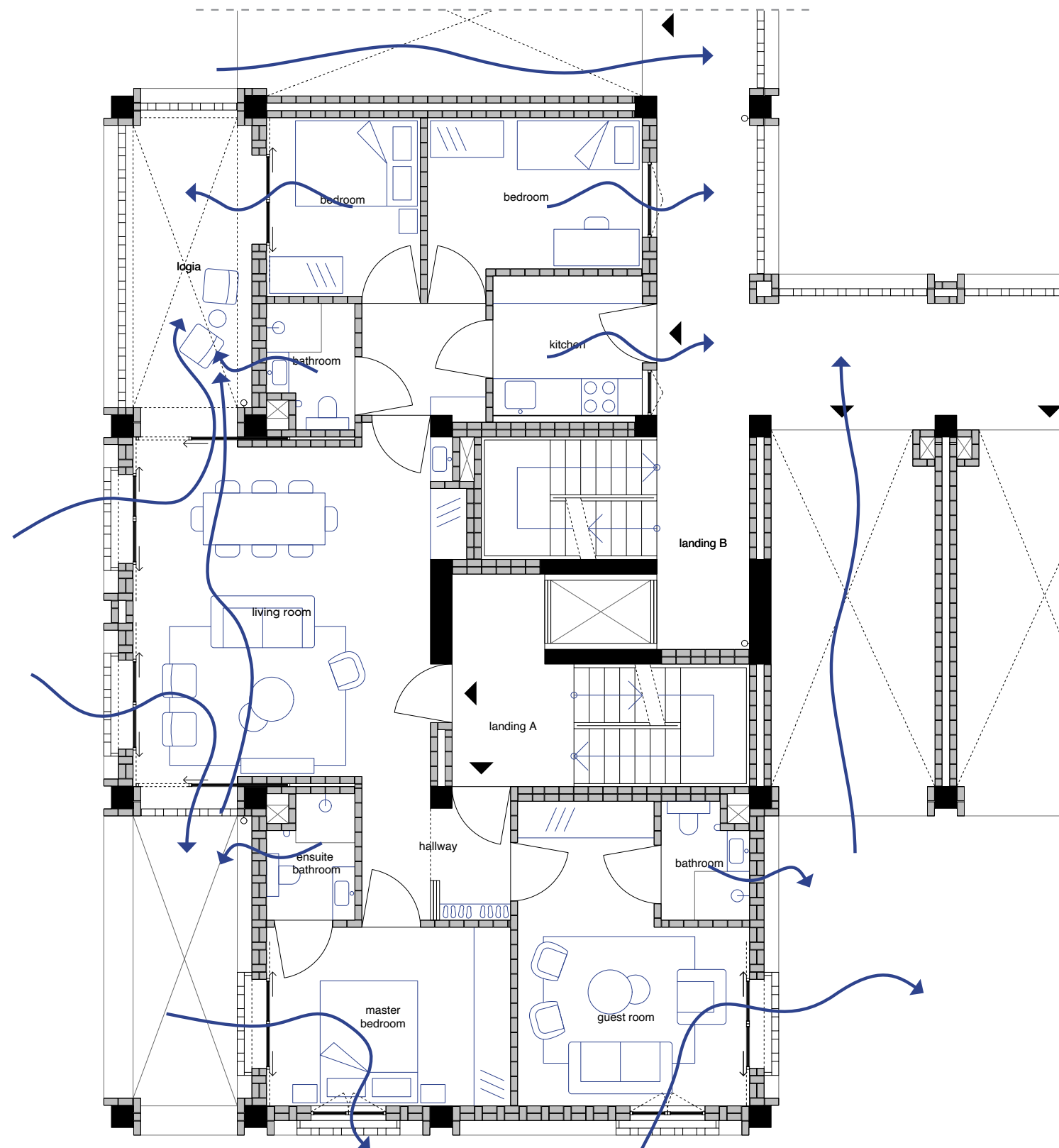


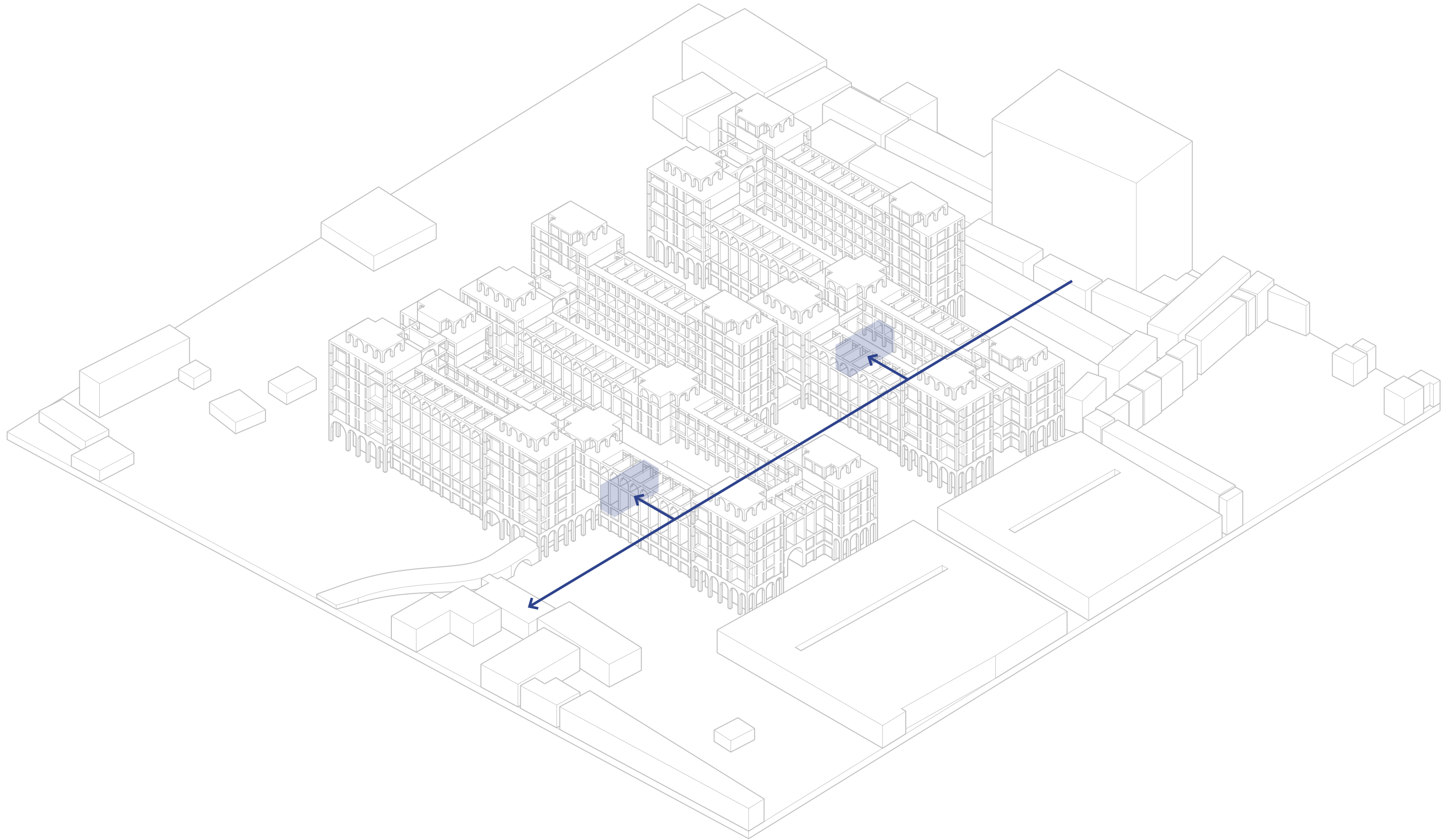


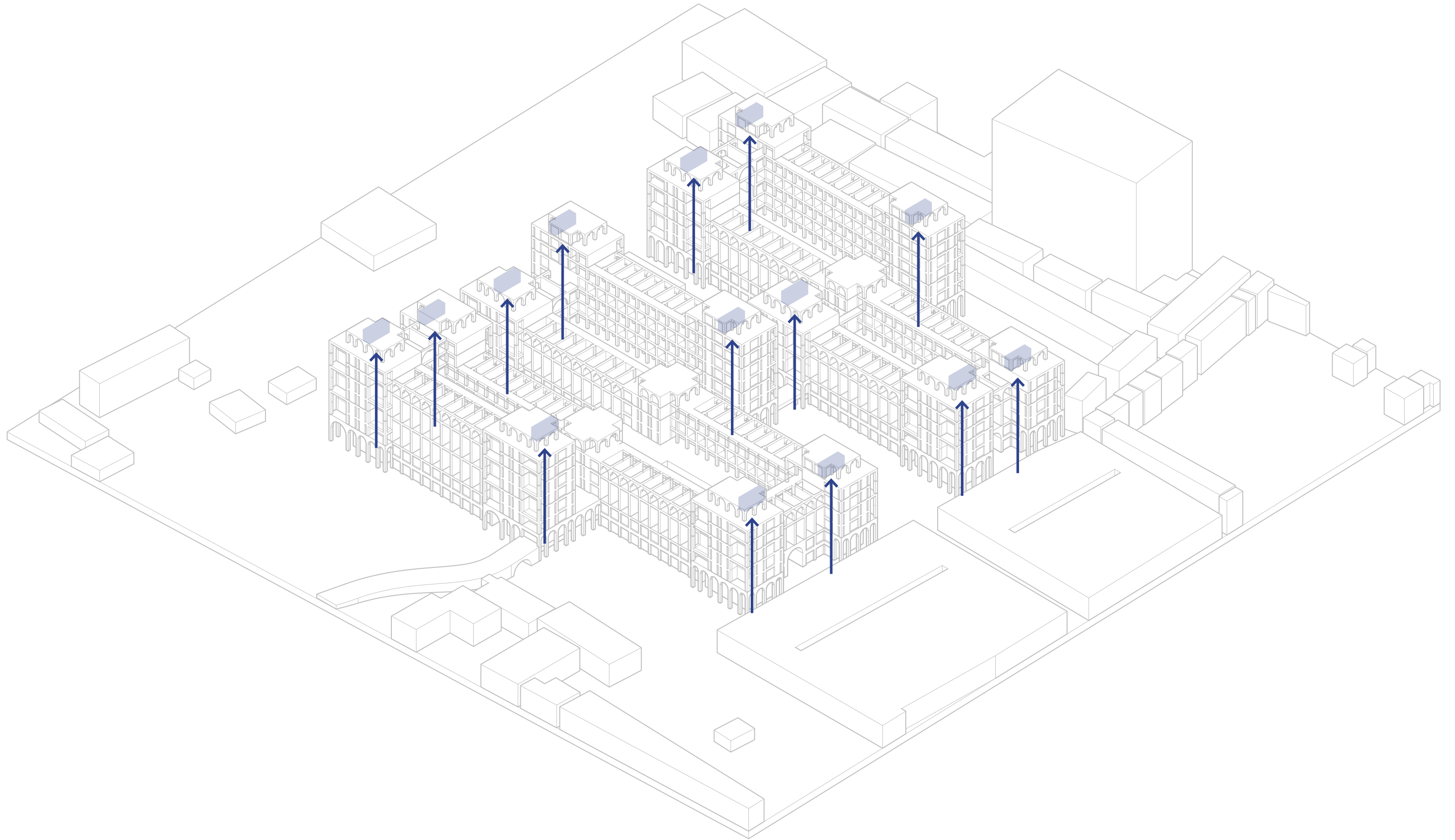


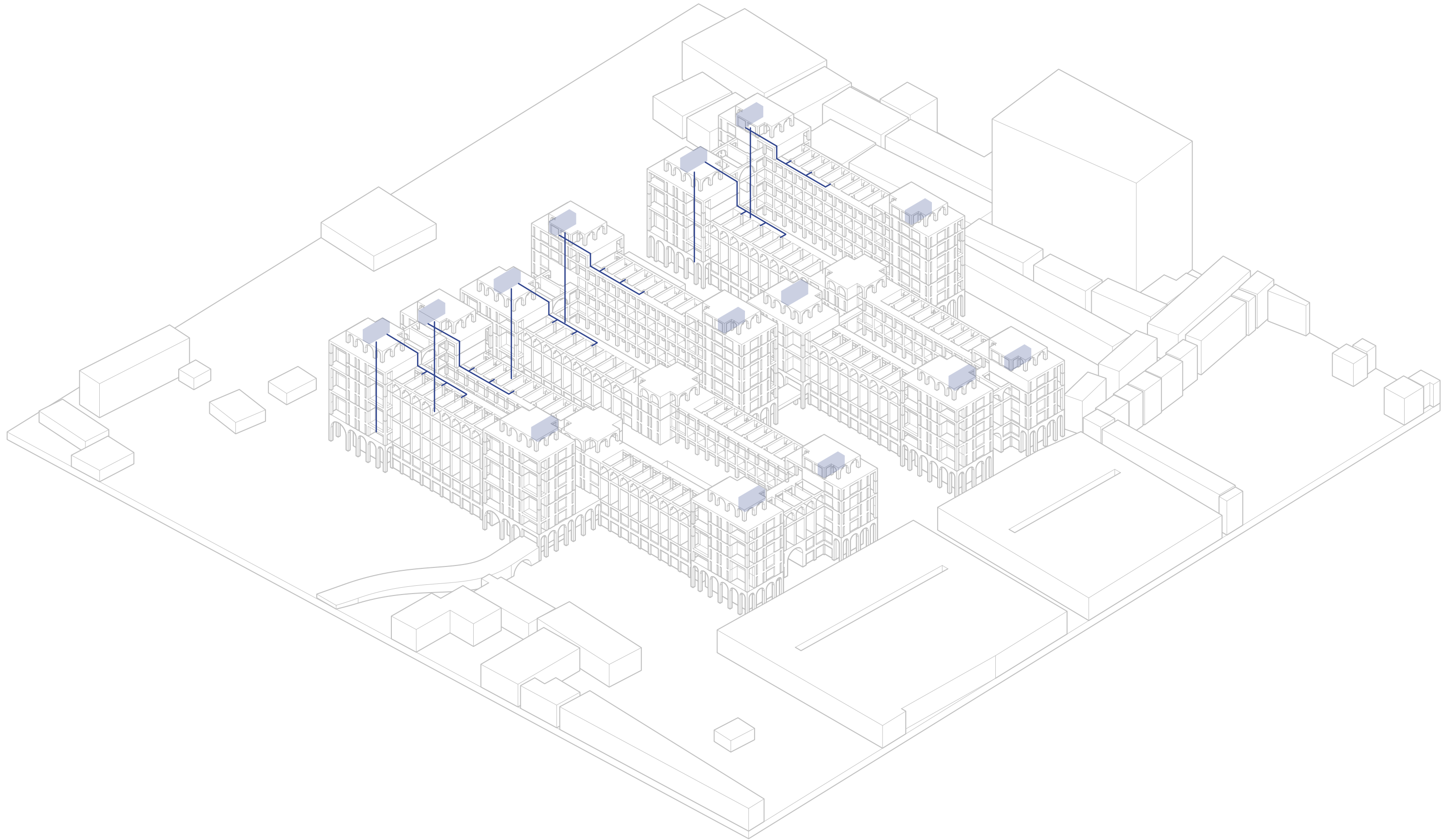


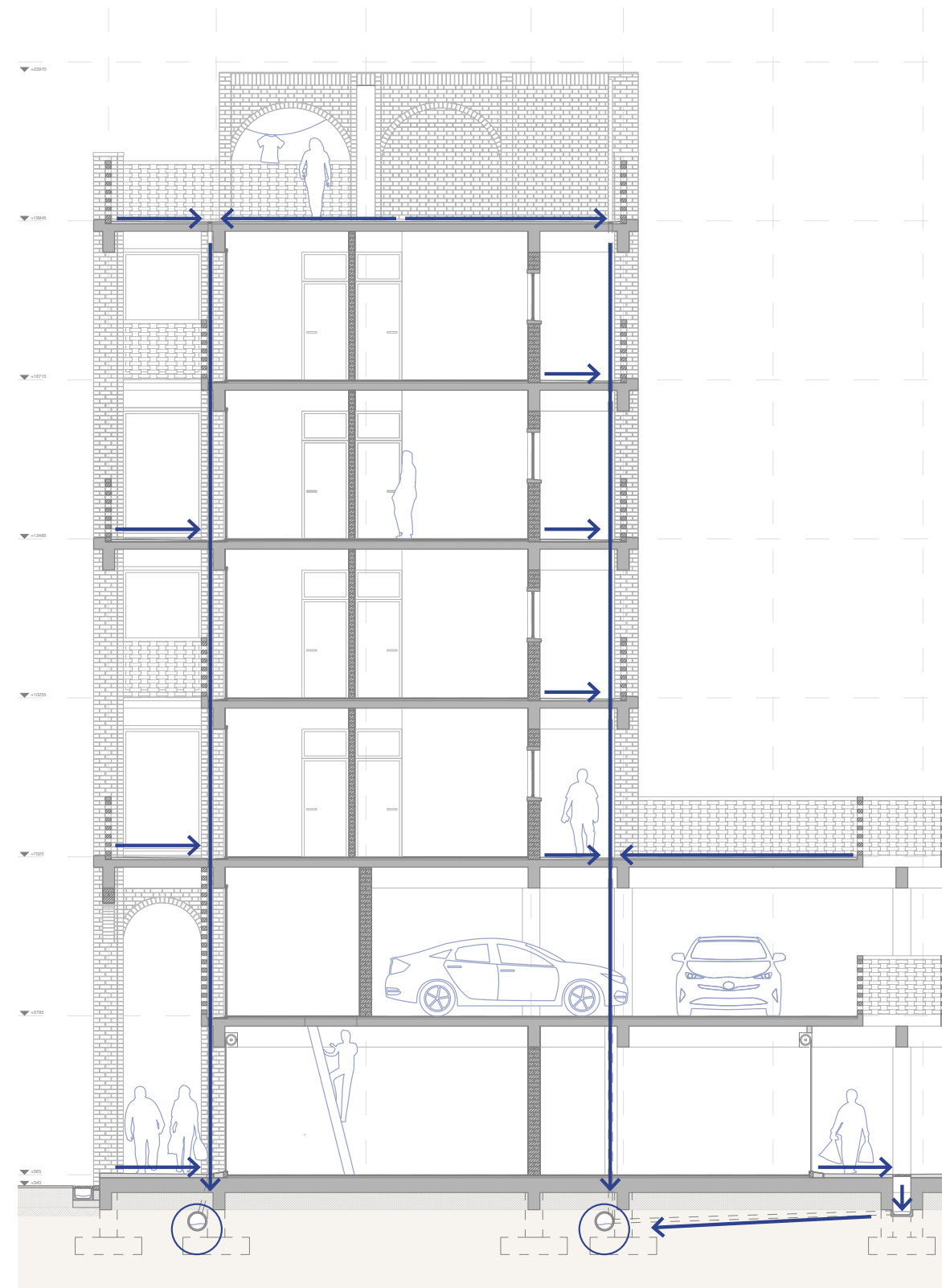


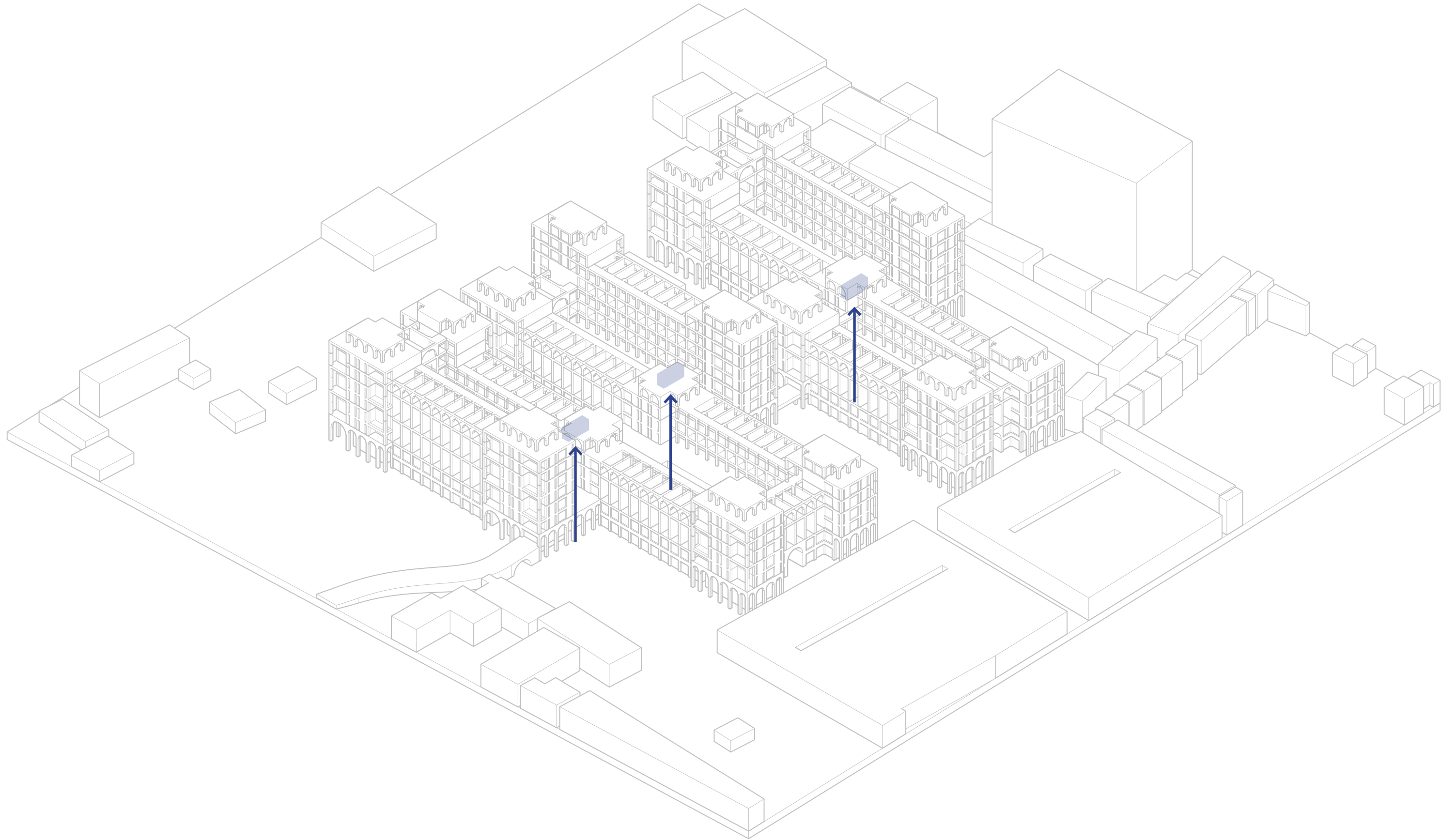


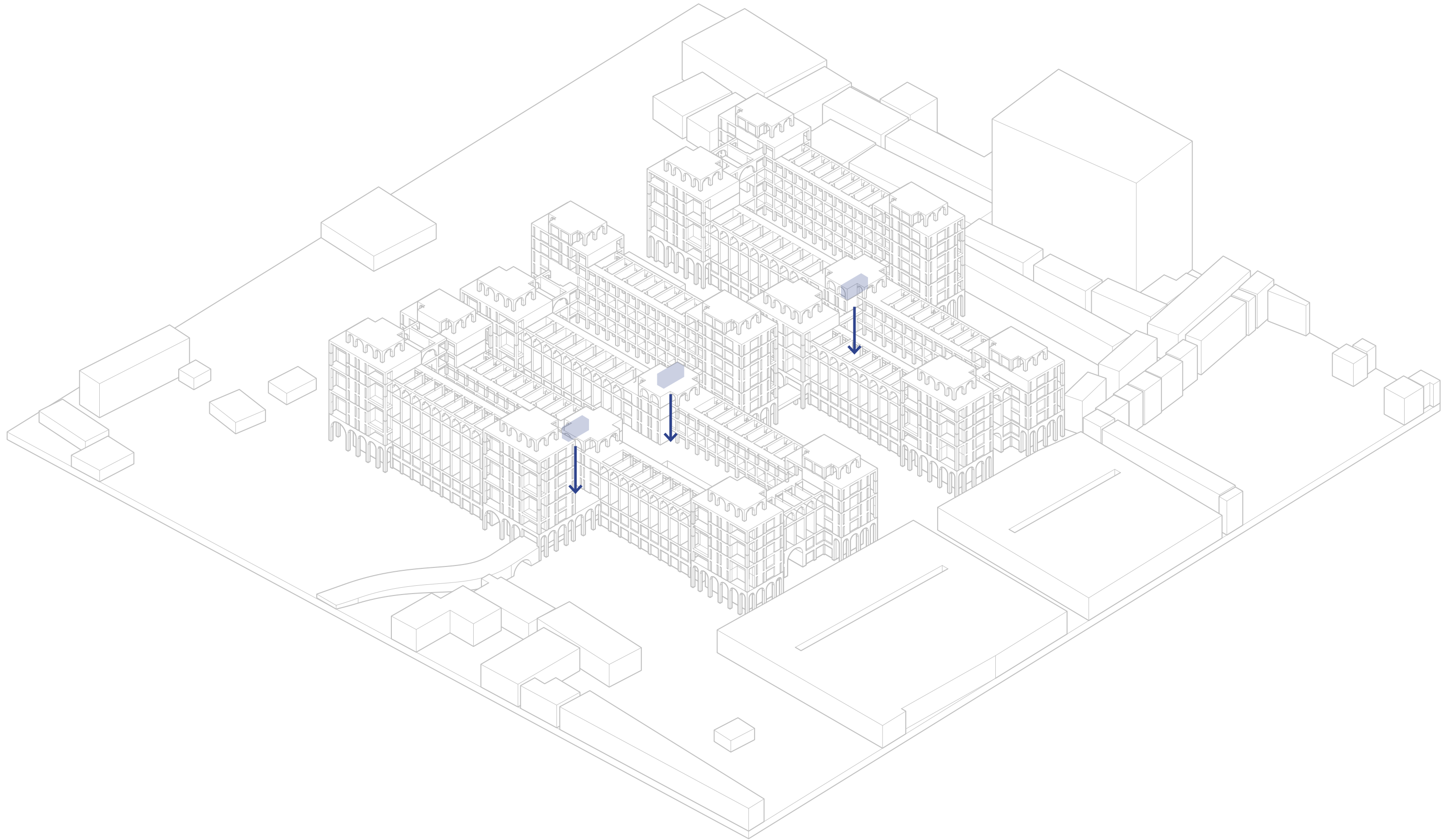






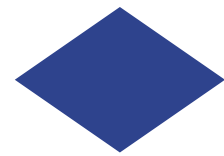






An aerial perspective of a physical architectural model. The model features several long, multi-story white buildings with a grid-like facade of windows and balconies. These buildings are arranged in a cluster, with some having flat roofs and others featuring small, square rooftop structures. Interspersed among the buildings are numerous dark green, rounded tree models. The entire model is set against a light gray background, and the lighting creates soft shadows, emphasizing the three-dimensional nature of the design.

PROJECT SYNTHESIS



plot = 1.52 ha



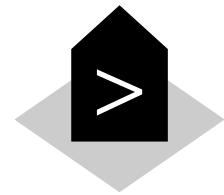
total floor area = 43310 m²



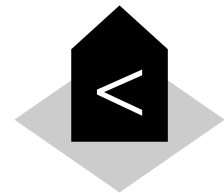
FSI = 2.78



GSI = 0.51



high-end dwellings = 72



low-end dwellings = 254

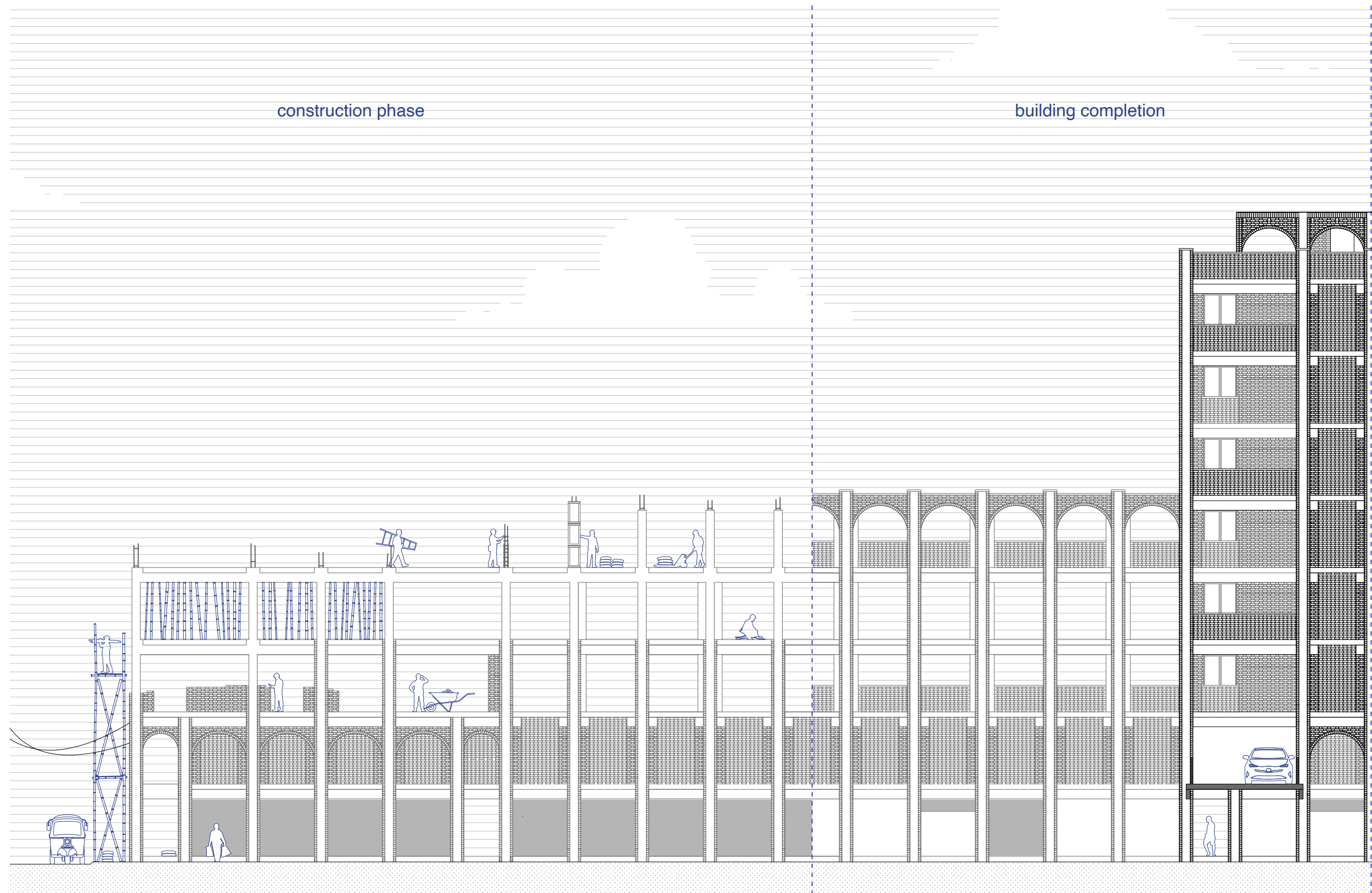


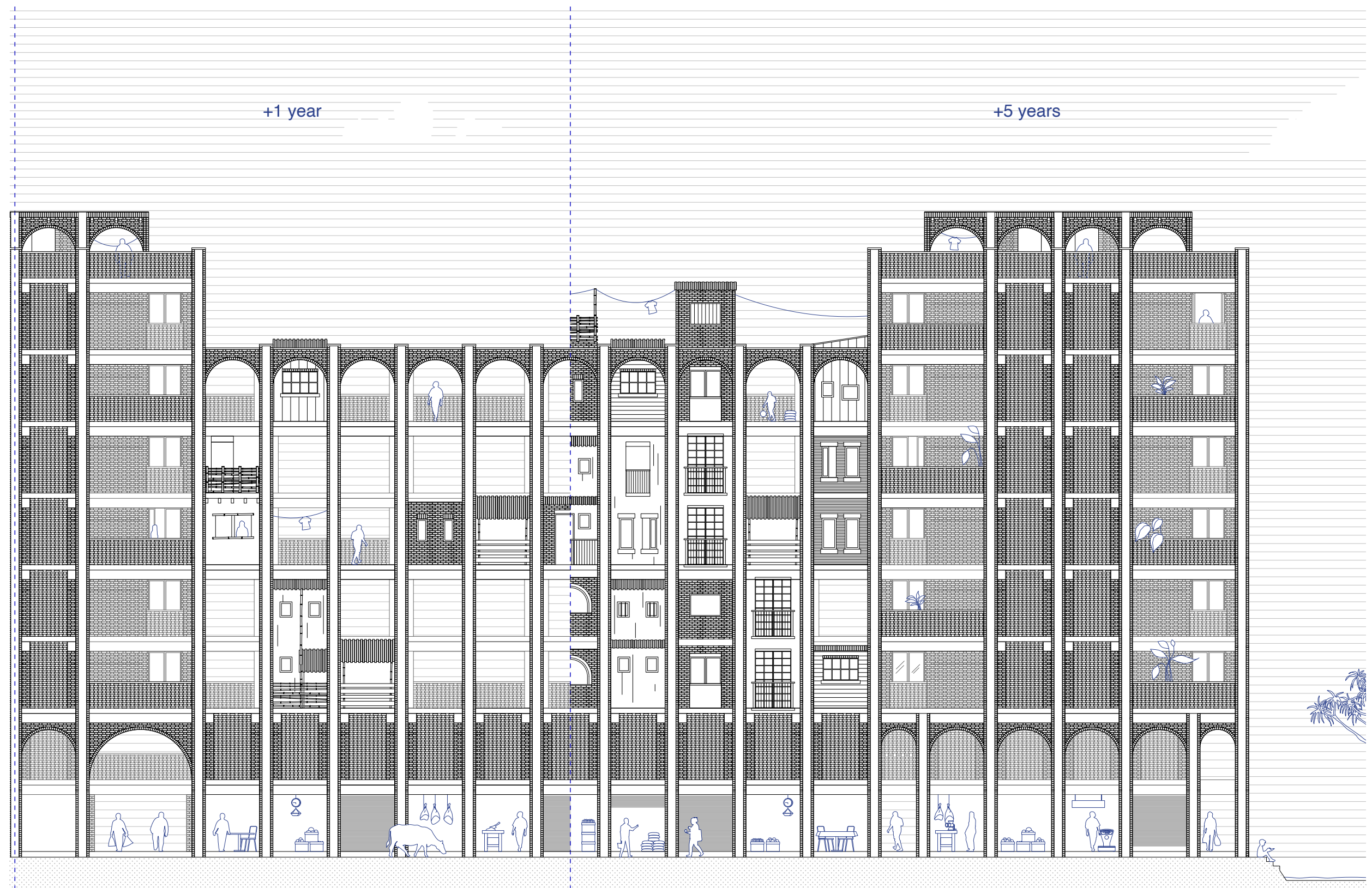
total dwellings = 326



density = 215 dw/ha







A black and white photograph of a young man with short, light-colored hair, smiling broadly. He is standing in a dark, ornately carved wooden doorway. He is wearing a white t-shirt and light-colored trousers. A black Nike fanny pack is slung over his shoulder, and a pair of sunglasses is hanging from the strap. The doorway is flanked by decorative wooden panels with intricate carvings. The background is bright, creating a strong contrast with the dark doorway.

THANK YOU