housing humanity, *building locality*

*“ … indirectly, and without any clear sense of the nature of his task, **in making the city man has remade himself** ”*

- Robert Park (urban sociologist)

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physical elements ⟷ inherent **qualities**

physical elements
inherent qualities
affords specific occupation

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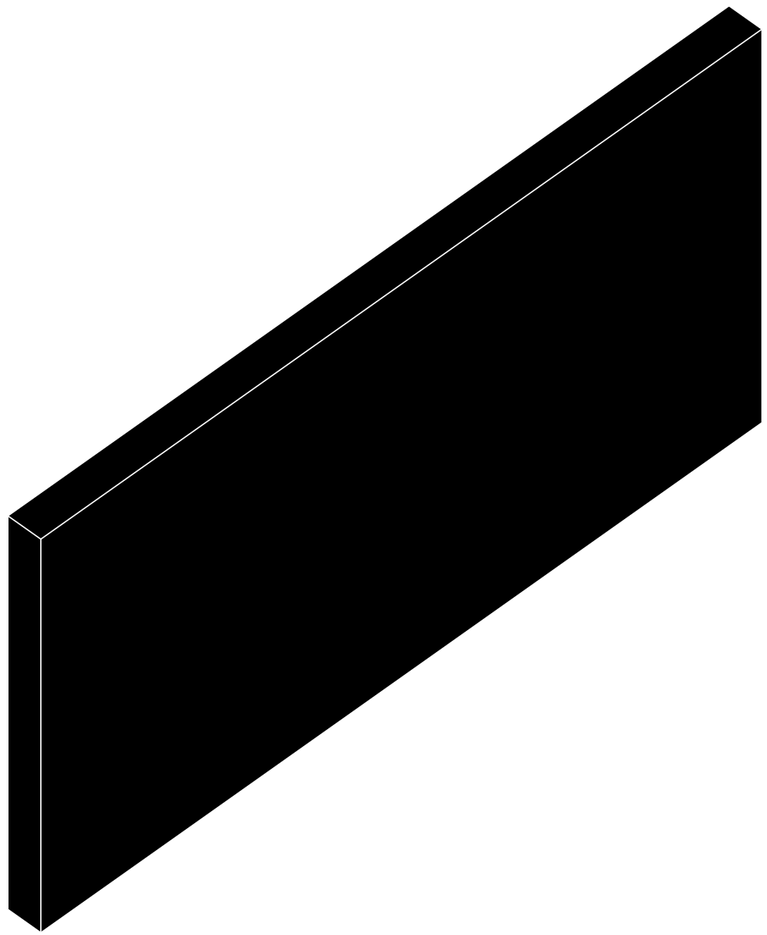
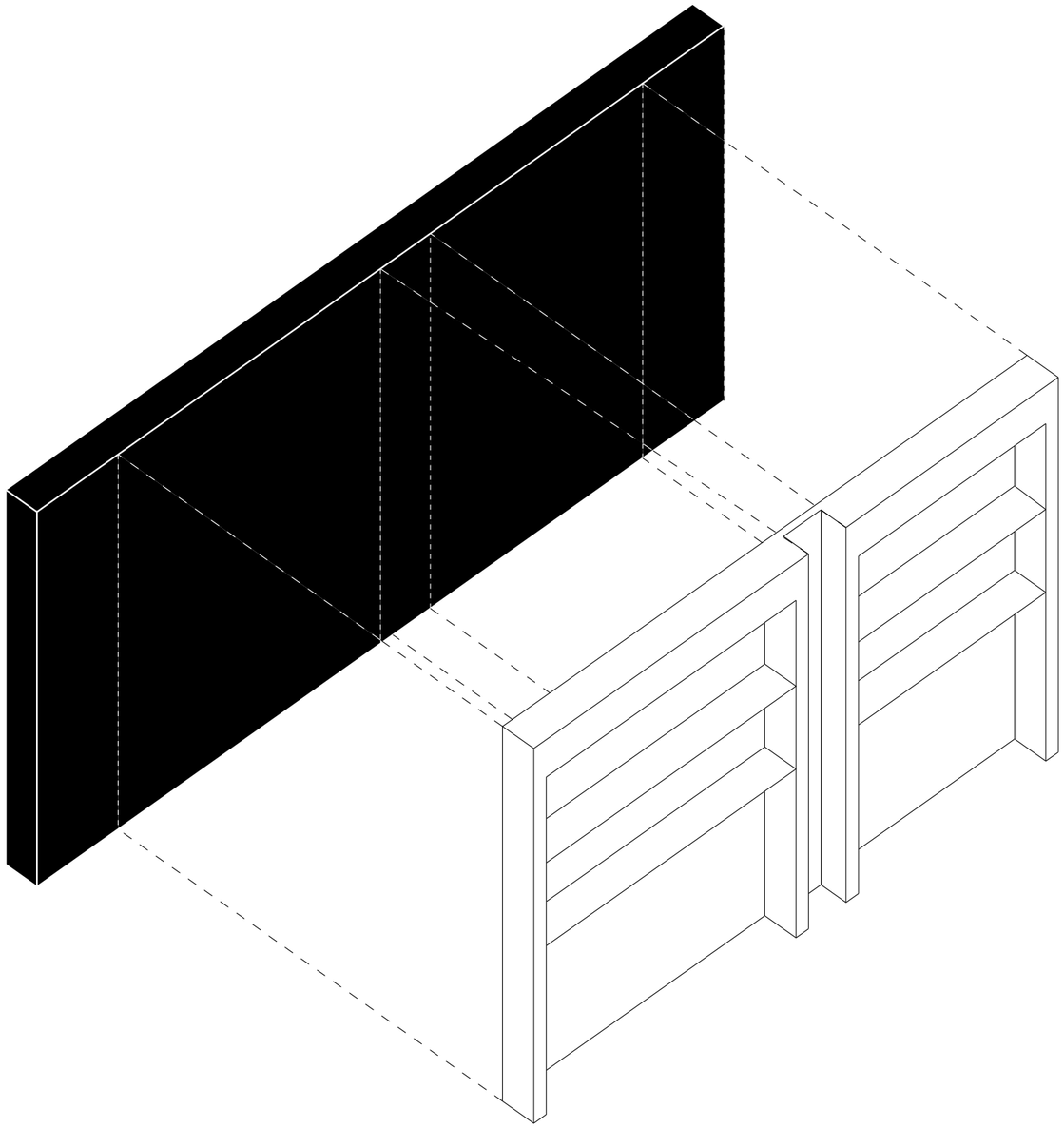
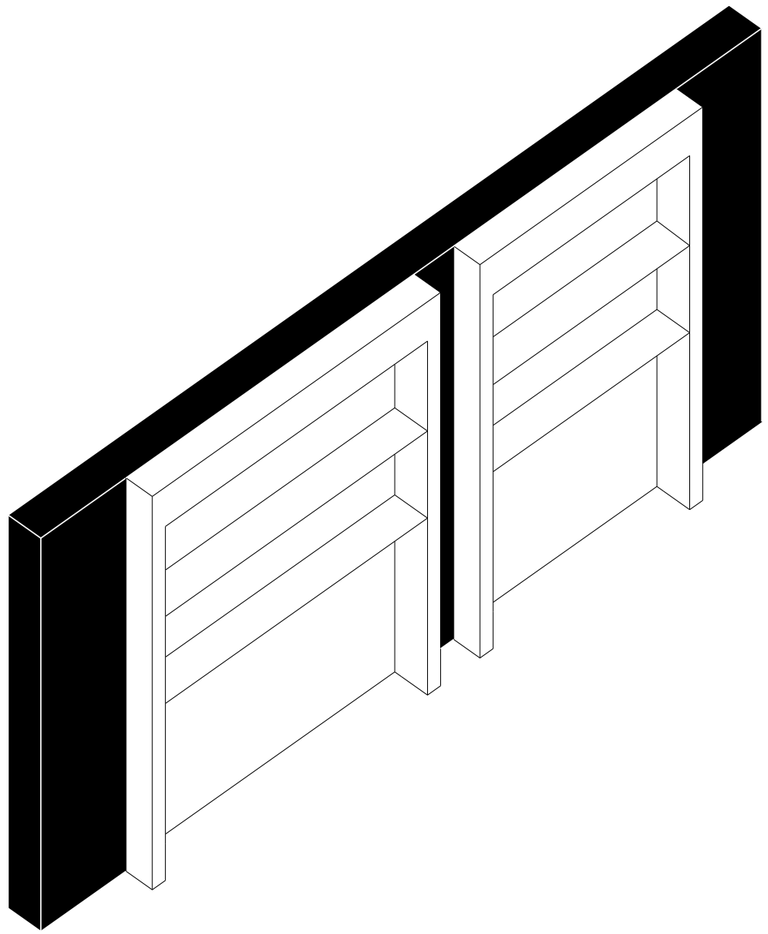
SADABAHAR

REFINED SOYABEAN OIL







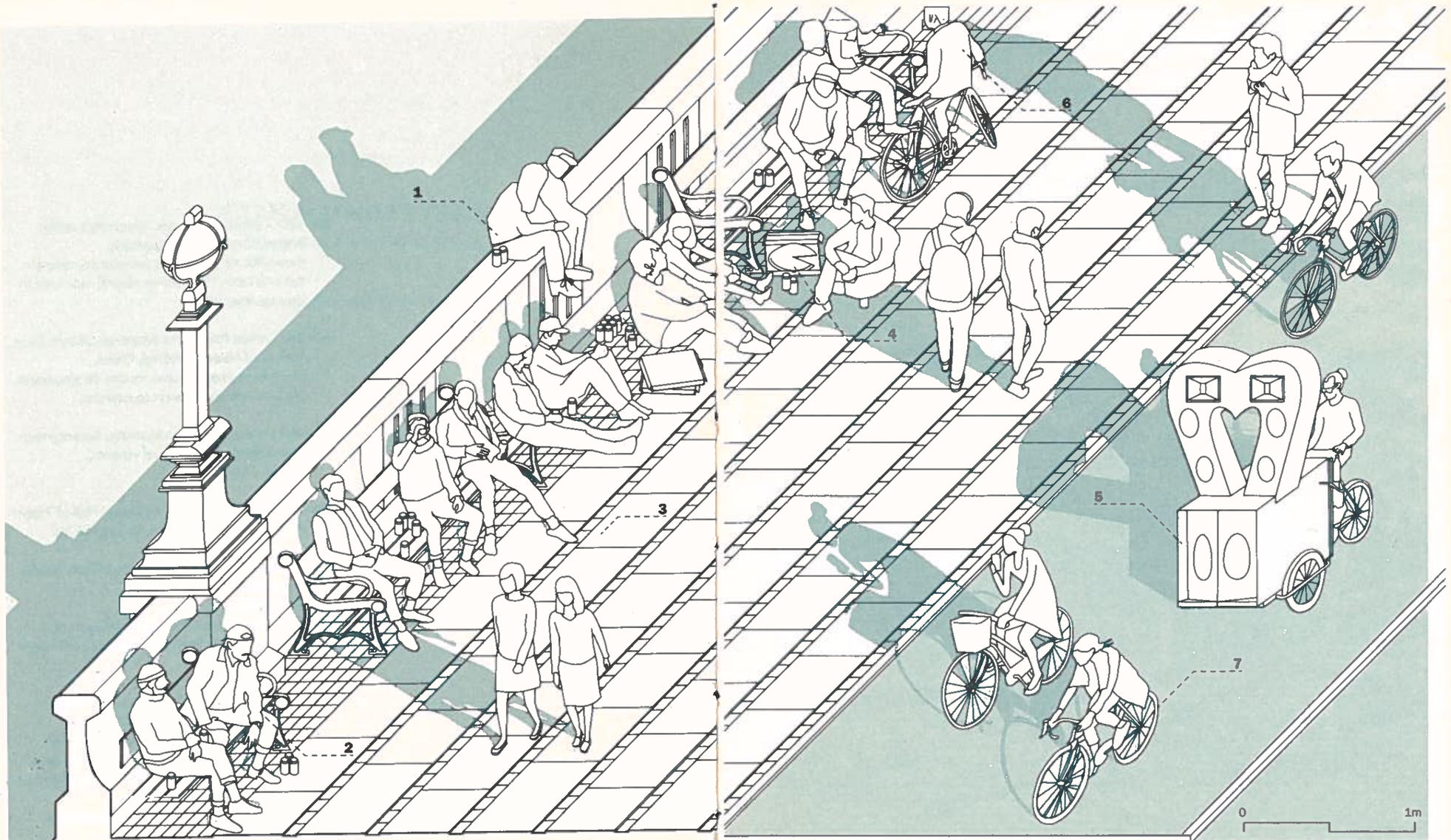
स्वादसा

ATELIER BOW-WOW

COMUNALIDAD ARQUITECTÓNICA:
UNA INTRODUCCIÓN

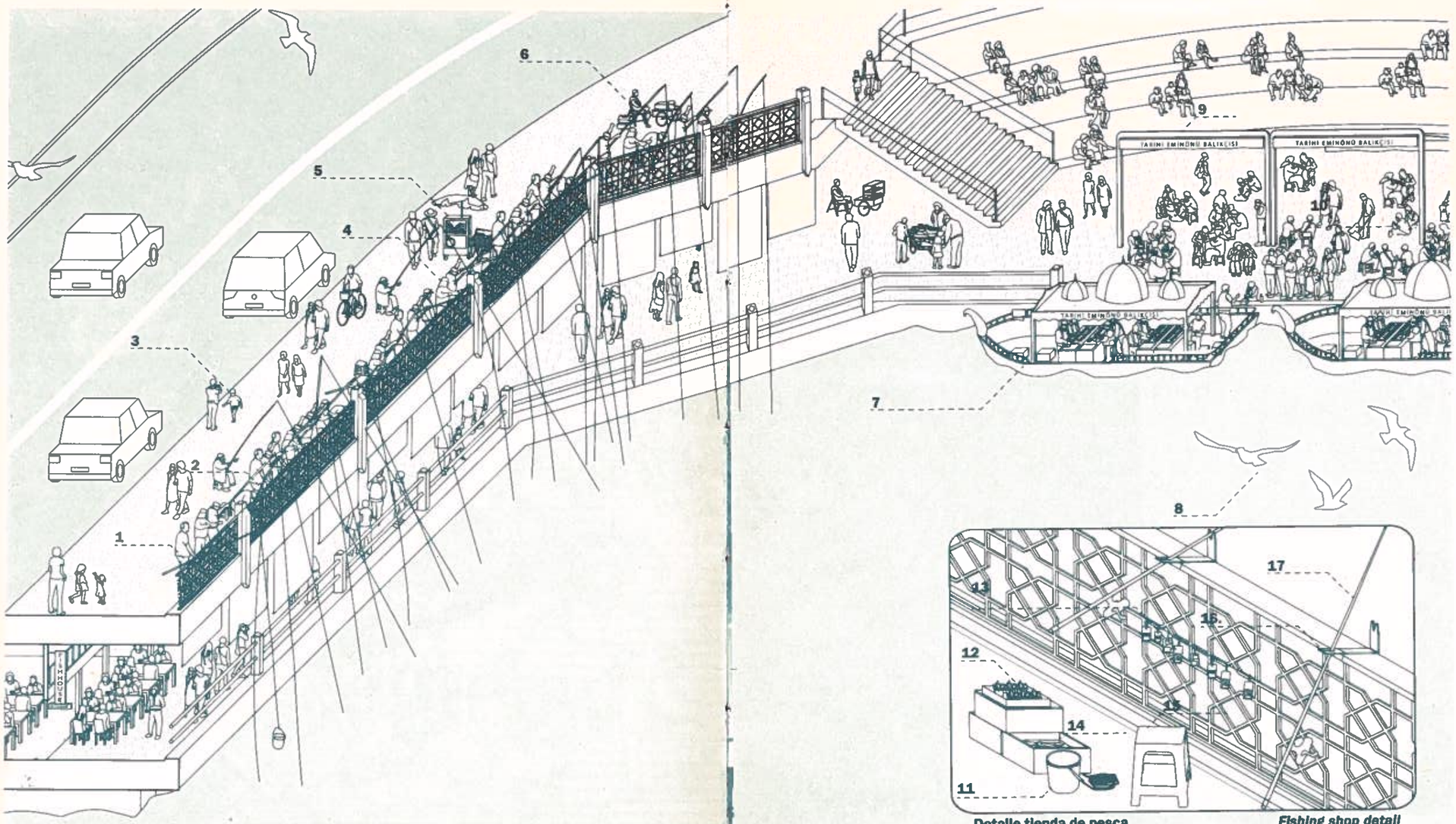
Architectural Commonality:
An Introduction

ARQ
ediciones



1. Sentado en la barandilla; 2. Mirando las bicicletas personalizadas; 3. Pavimento de piedra calentada por el sol p iente; 4. Pizza y cerveza; 5. Bicicleta con parlantes pasando; 6. Mostrando sus bicicletas personalizadas; 7. Bicicleta personalizada.

1. Sitting on the guardrail; 2. Watching the customized bikes; 3. Stone pavement warmed by the western sun; 4. Pizza a l beer; 5. Bike with speakers passing by; 6. Showing off their customized bikes; 7. Customized bike.

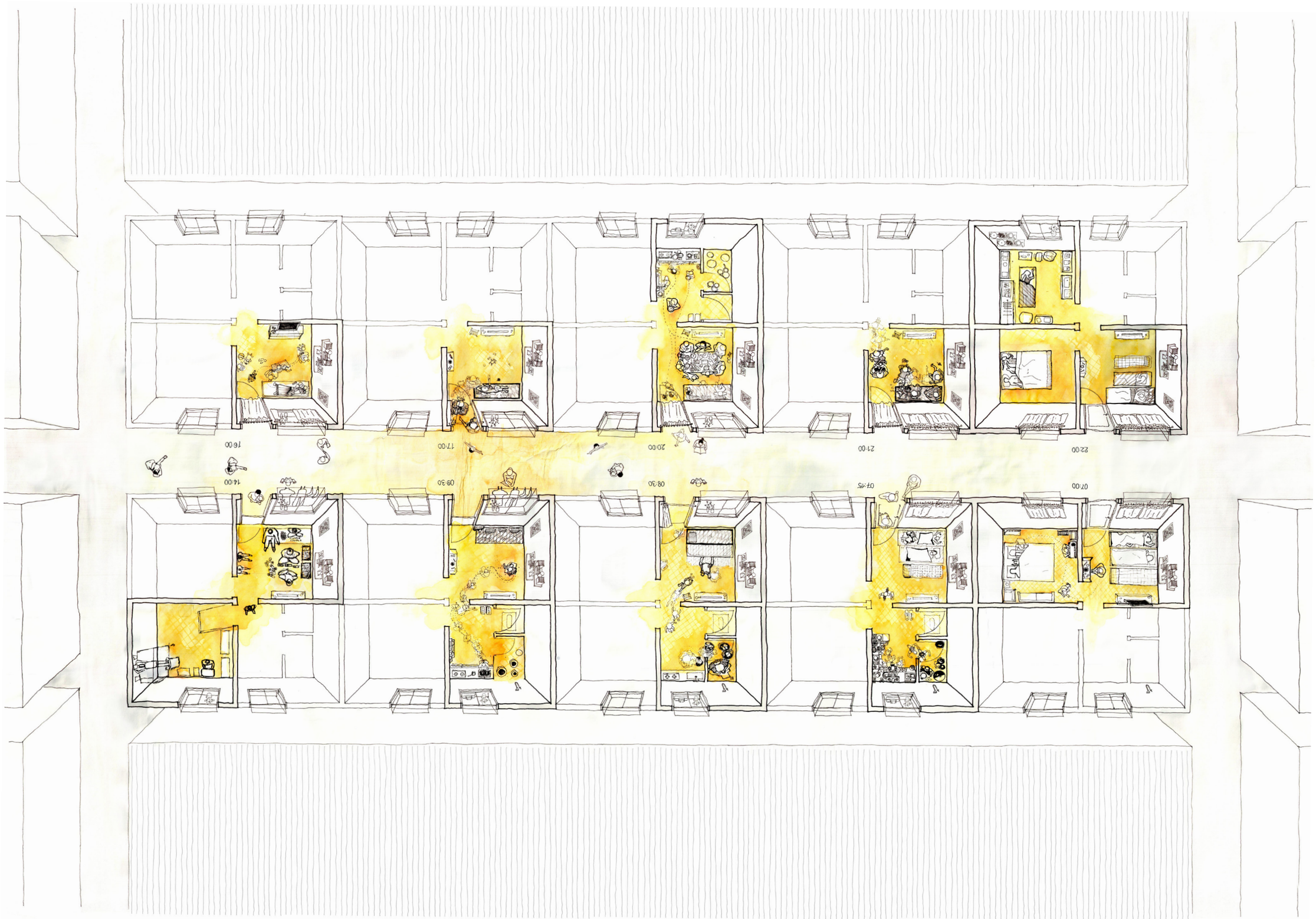


1. Barra de pesca fija al pasamanos; 2. Balde de agua; 3. Turista; 4. Pescadores apiñados; 5. Carro de pan; 6. Tienda de pesca; 7. Bote con cocina; 8. Gaviota; 9. Toldo; 10. Personas comiendo sandwiches de pescado; 11. Balde con cuerda; 12. Cebo; 13. Señuelo de pesca y cable colgando del pasamanos; 14. Pescados; 15. Banca plástica; 16. Sostenedor de caña de pescar; 17. Caña de pescar.

1. Fishing rod fixed to the hand rail; 2. Water drawn up in a bucket; 3. Tourist; 4. Fishermen squeezed together; 5. Bread cart; 6. Fishing shop; 7. Boat with kitchen; 8. Seagull; 9. Awning; 10. People eating fish sandwiches; 11. Bucket with rope; 12. Bait; 13. Fishing lure and wire hung from the handrail; 14 Caught fish; 15. Plastic stool; 16. Fishing rod holder; 17. Fishing rod.

Detalle tienda de pesca / ***Fishing shop detail***

0 3 6m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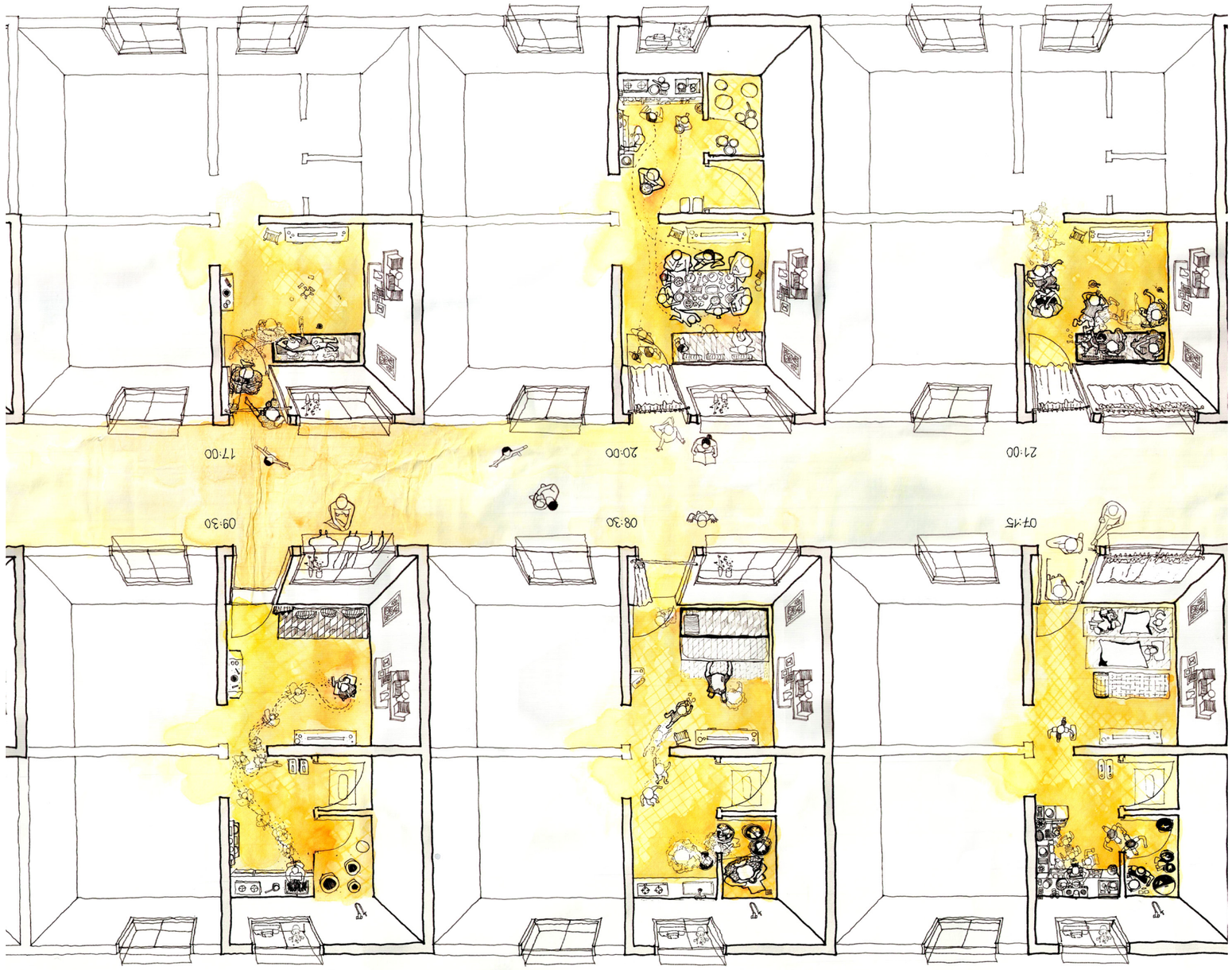
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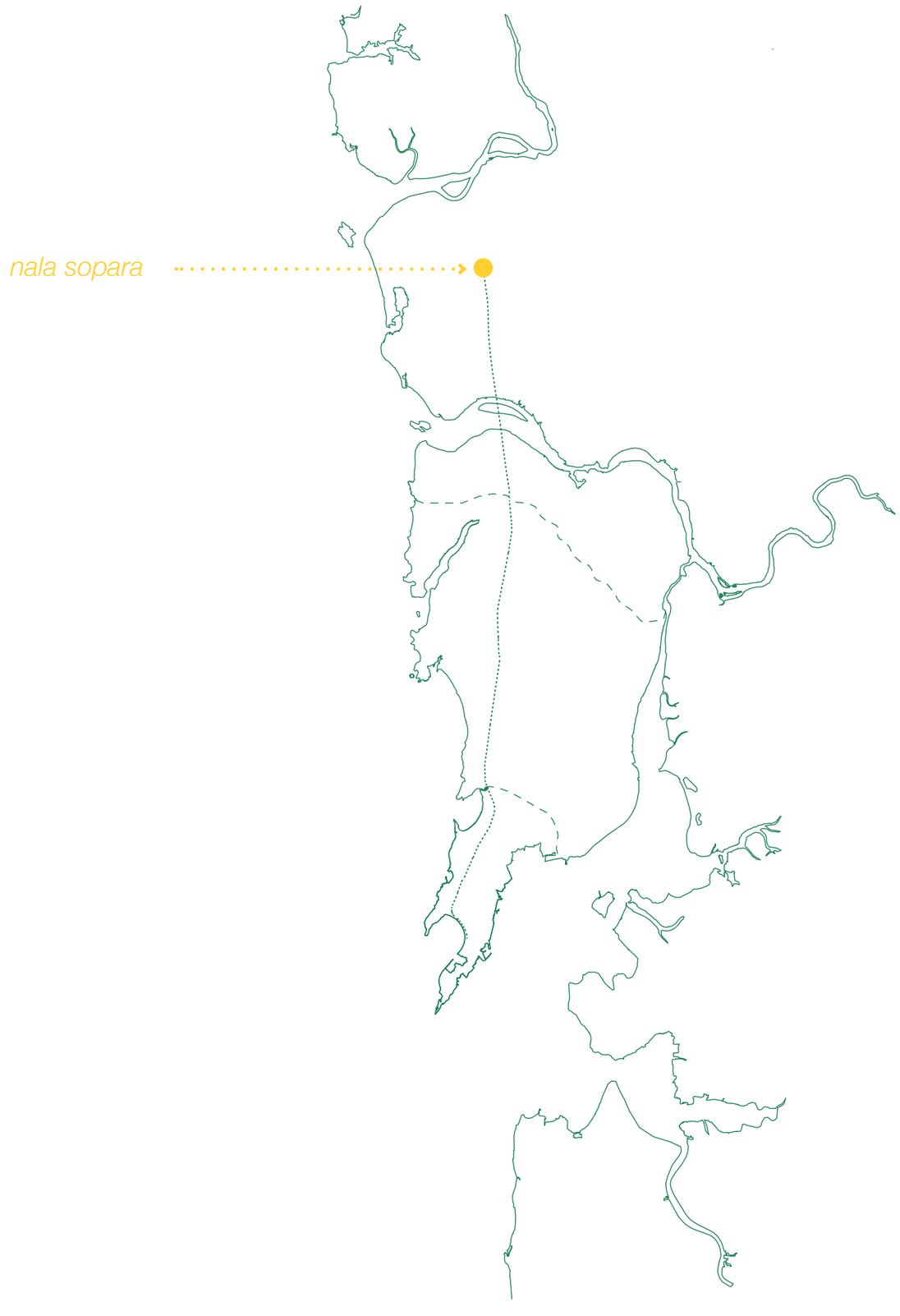
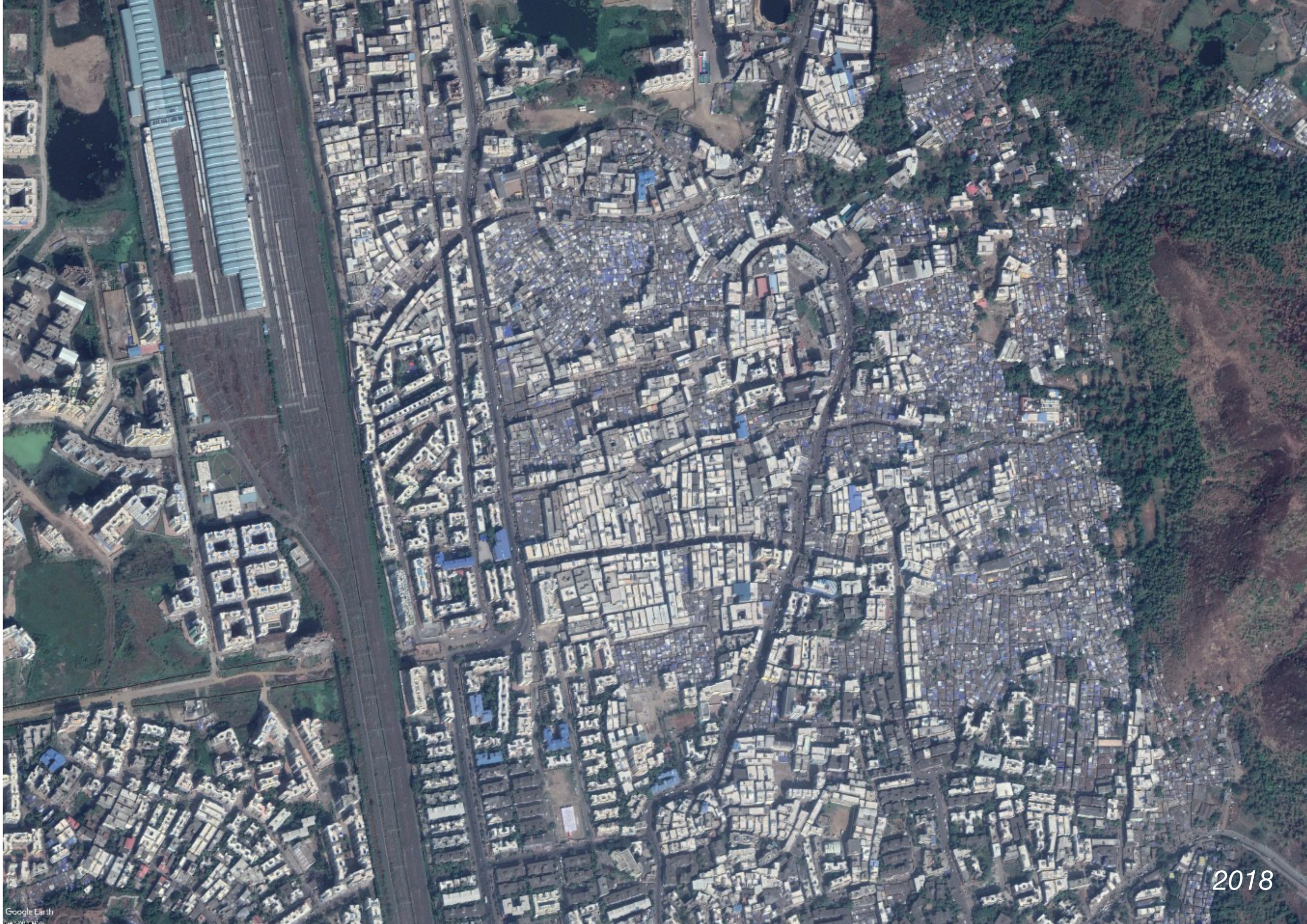
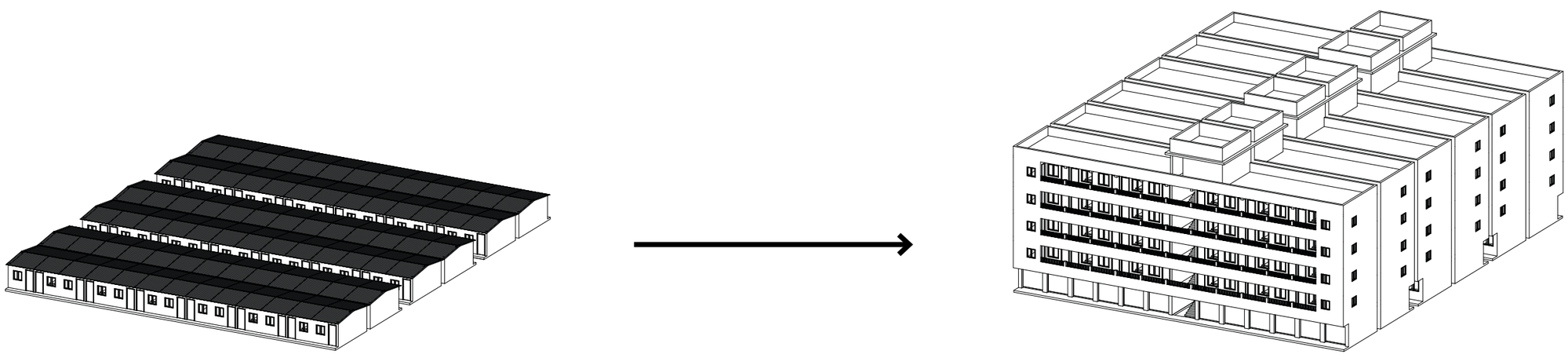

nala sopara

2008


2018
Google Earth



Urban change and growth are inevitable realities in the morphology of cities.

problem statement

Urban change and growth are inevitable realities in the morphology of cities.

The current shift from **low-rise chawls** to **high-rise developments seeks** to respond rapidly and primarily to prevalent density requirements, under economic pressure.

problem statement

Urban change and growth are inevitable realities in the morphology of cities.

The current shift from **low-rise chawls** to **high-rise developments seeks** to respond rapidly and primarily to prevalent density requirements, under economic pressure.

As a result, these developments lack in their consideration of **established habitation practices**, resulting in the cultivation of an urban fabric dominated by **disjuncture** and **exclusion**.

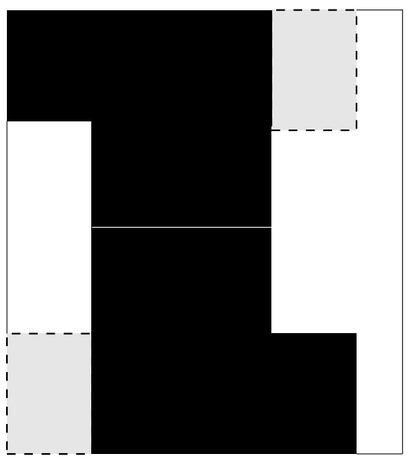
problem statement

How can the design of **affordable multi-level, mid-rise** housing developments incorporate the inhabited **familiarity** and **intimacy** brought about through appropriative space-making practices, while responding to requirements of **density** and **economy**?

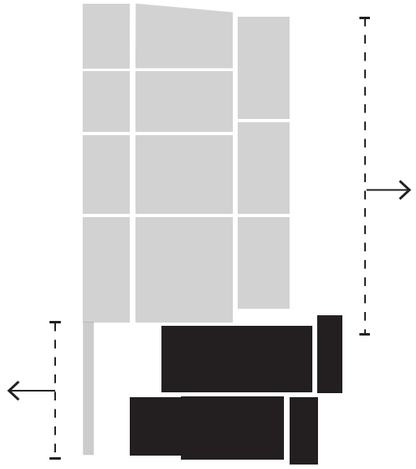
research question

How can a legible and coherent urban locality be reconstructed utilising established **endemic domestic practices** as a core driver in the design process?

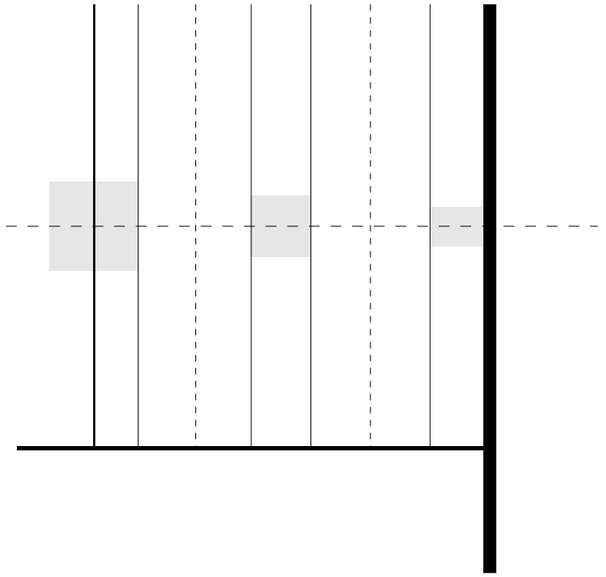
sub-question



growth through flexibility

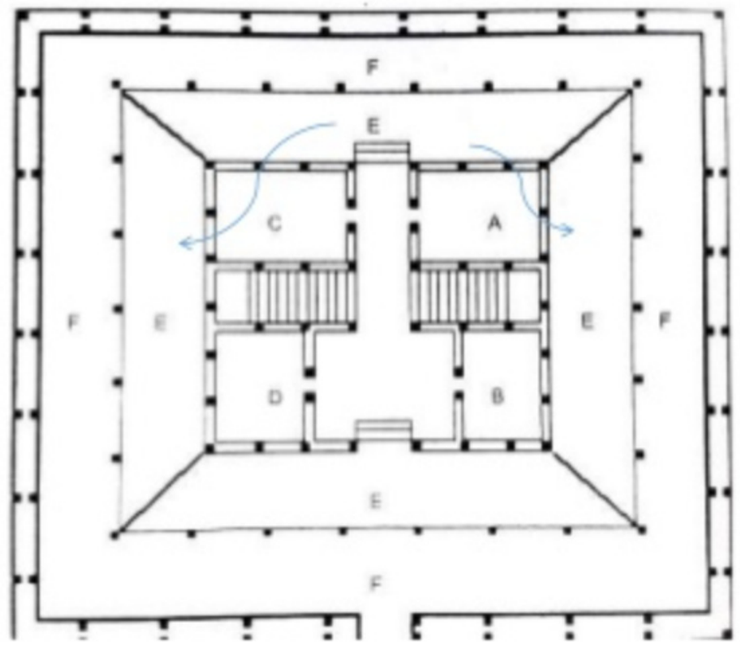


mediating public/private spectrum

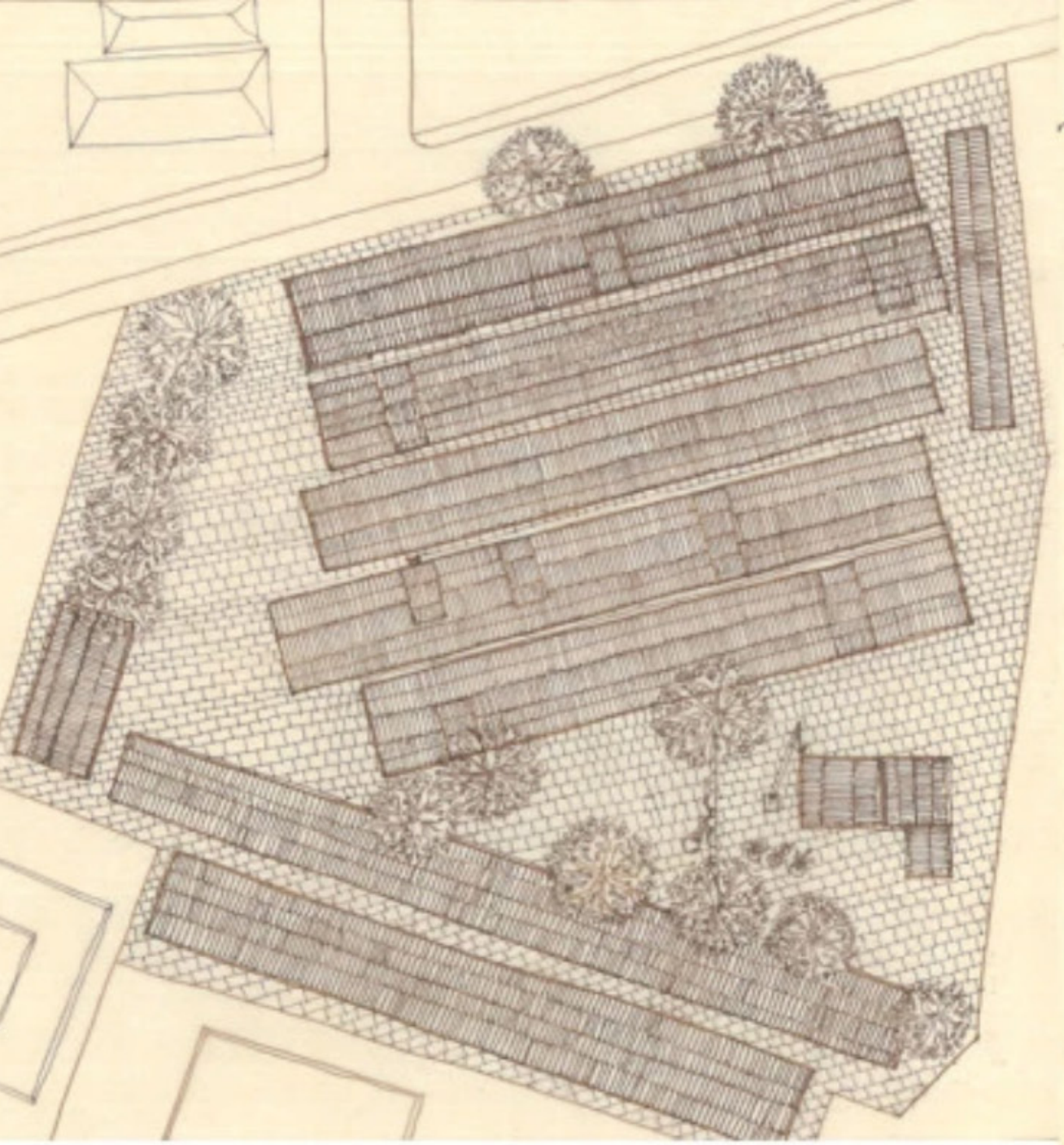


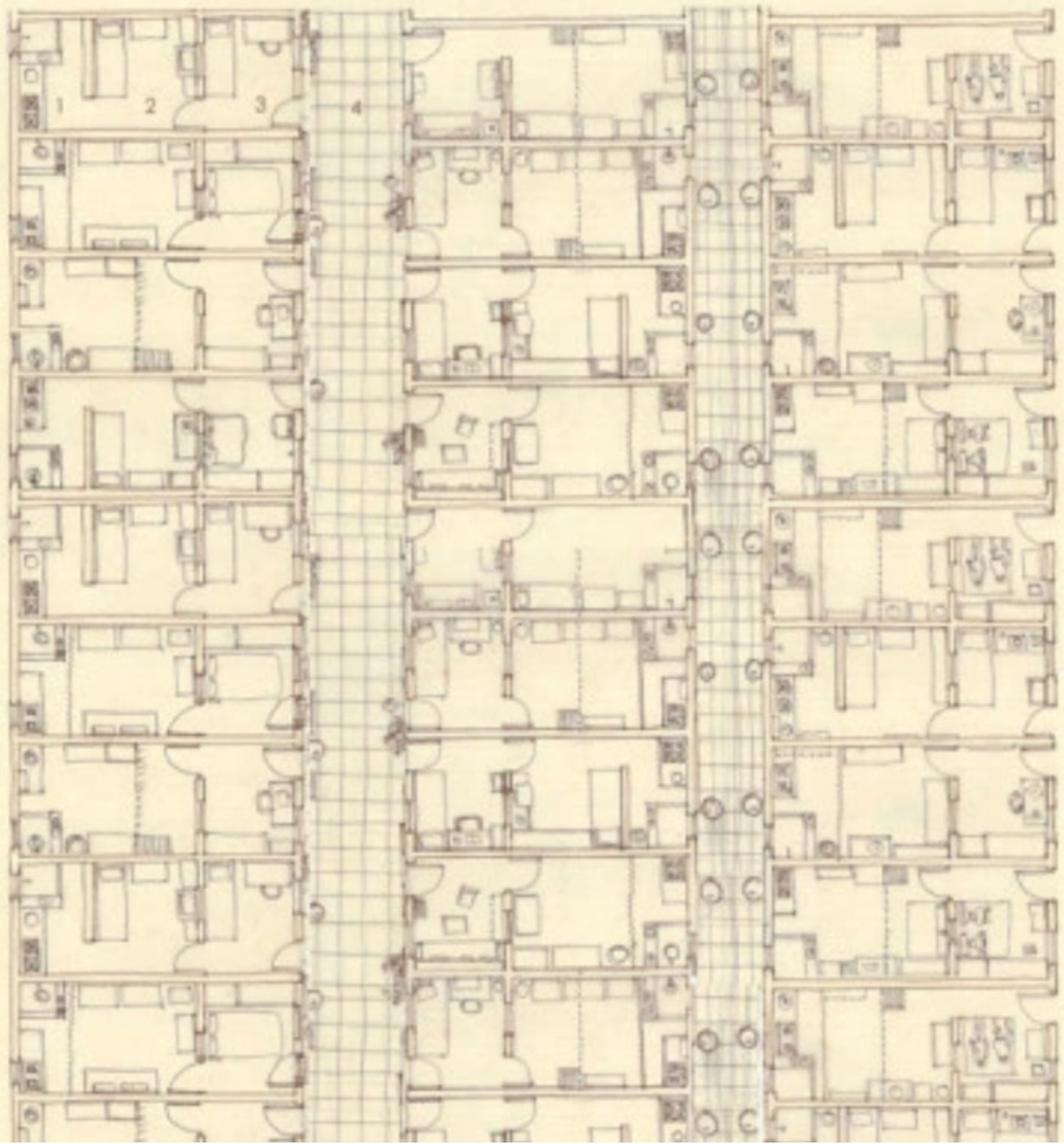
hierarchy of open space

army barracks



agrarian wada



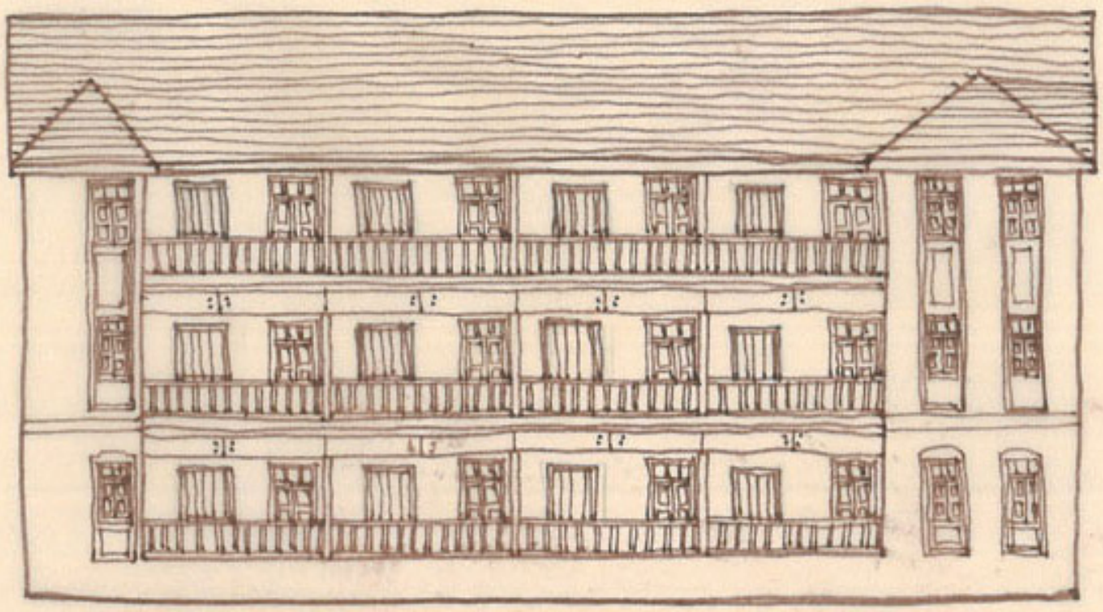


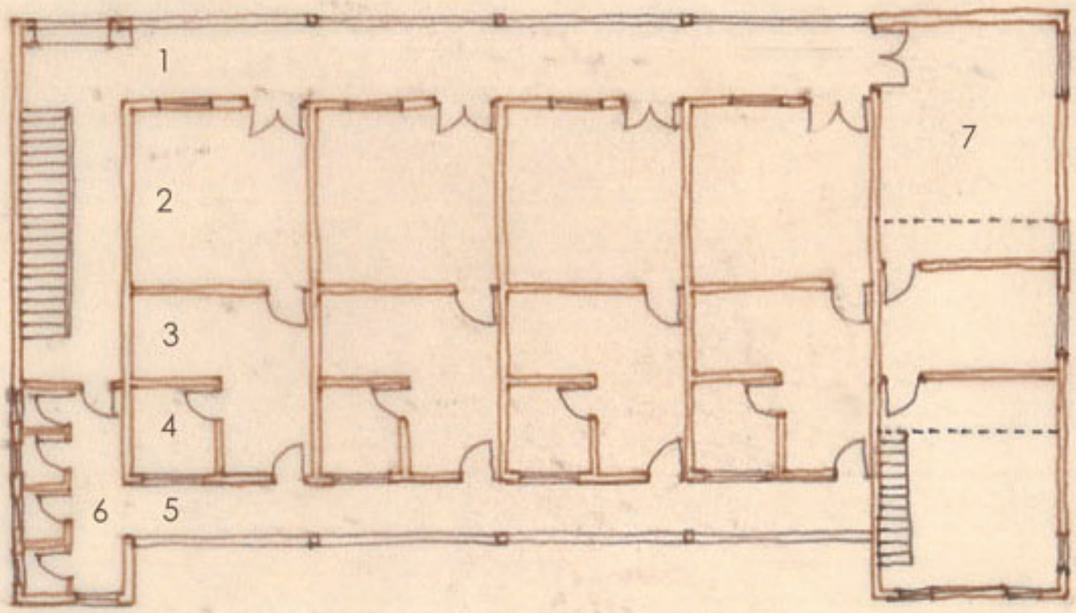
Baithi chawls were the first chawl typologies that emerged. They were generally ground storey structures with pitched roofs. In some cases they also went to ground plus one. They often formed parts of larger layouts as in the case of the Modern mills compound. Being low-rise, these structures had a particular relationship to the ground and allowed for a spill-over of everyday activities from the relatively small house to the outside space. Baithi chawls in most places,have been demolished because of the low density they offered to make way for new higher density structures.

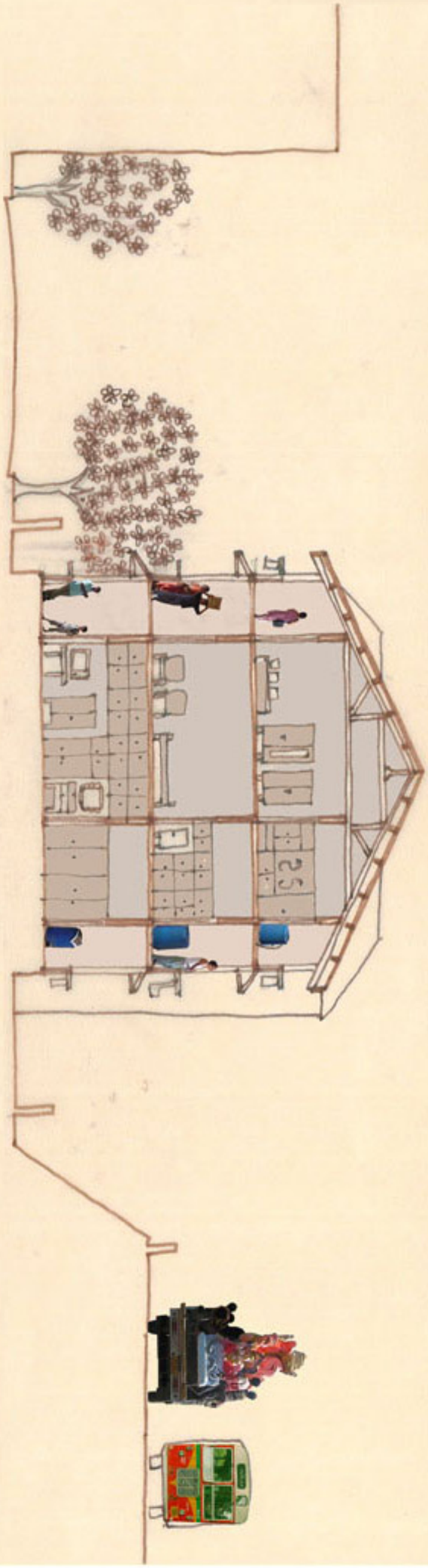
1 kitchen 2 multipurpose room 3 converted verandah 4 alley

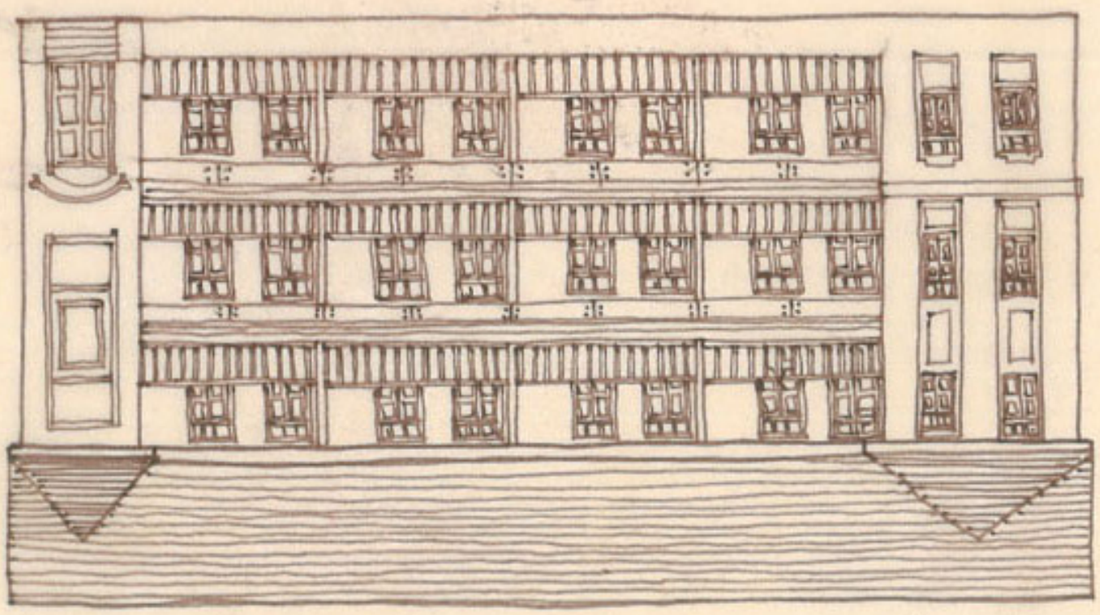
baithi chawl

bar chawl



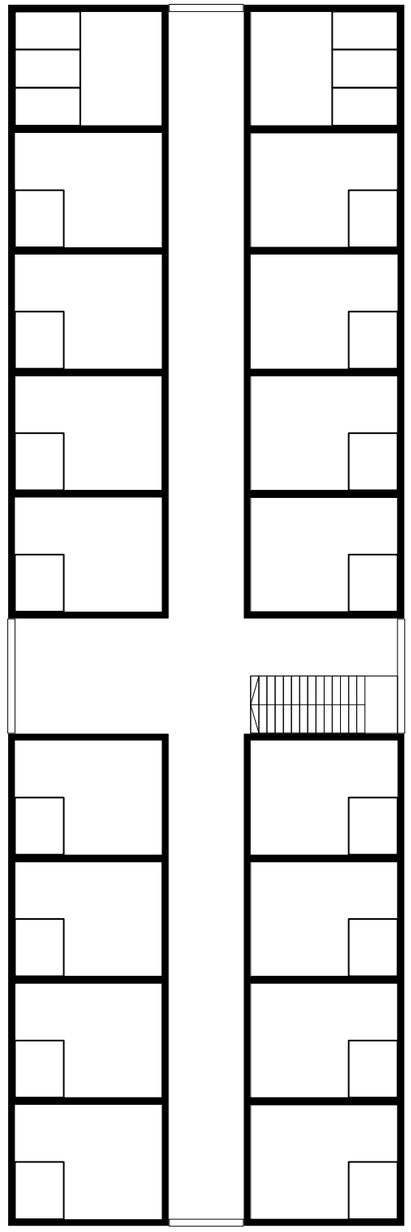




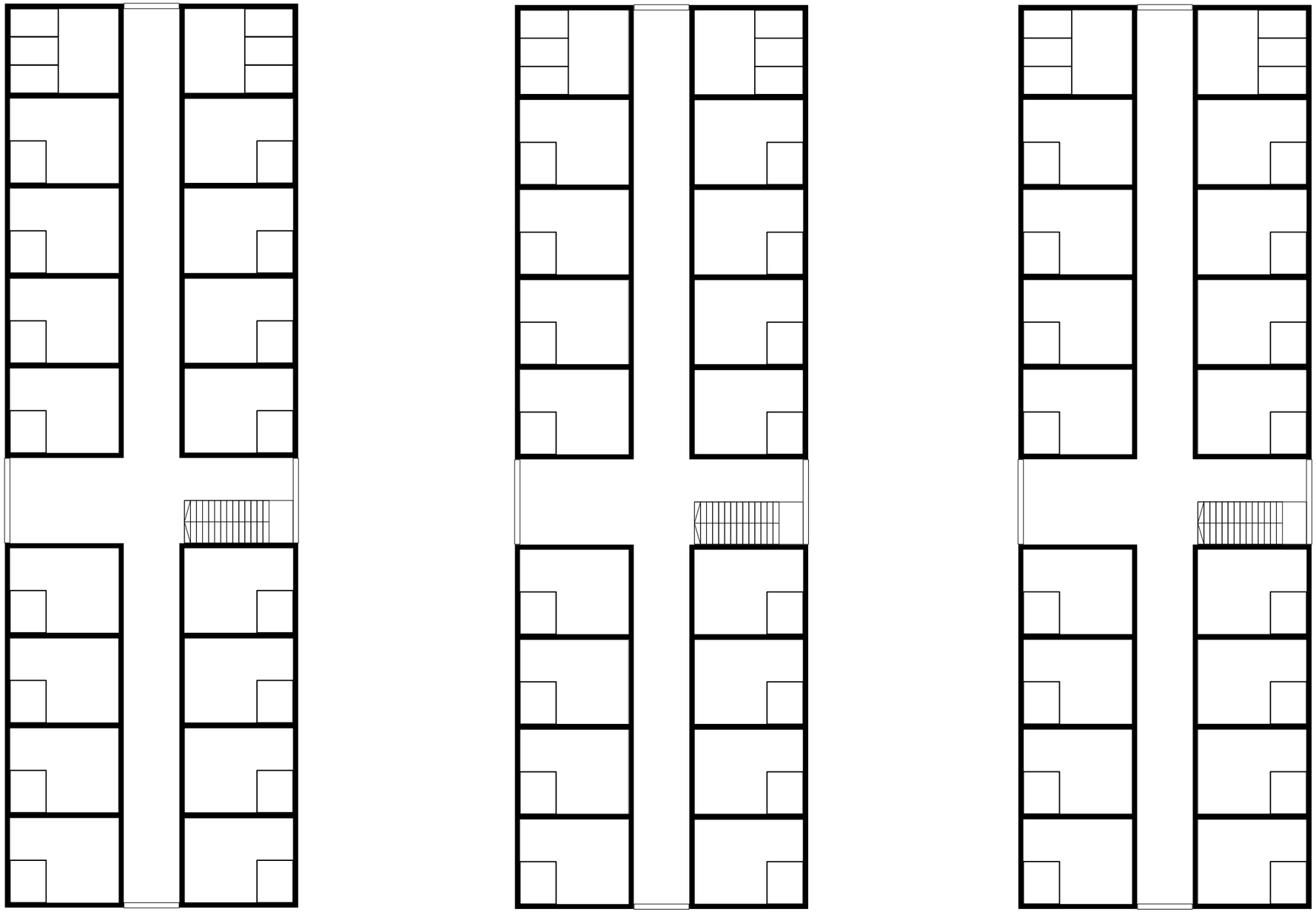


Pradhan building represents a single bar typology with two verandahs flanking its edges. The front verrandah gives access to a mutlipurpose space leading to a kitchen behind. The back verandah leads to the common toilets. The kitchen has a small washspace called a mori. In many cases this space has been renovated to serve as a modern bathroom. The two verandahs become important semi public spaces, where much of the everyday household activity spills out

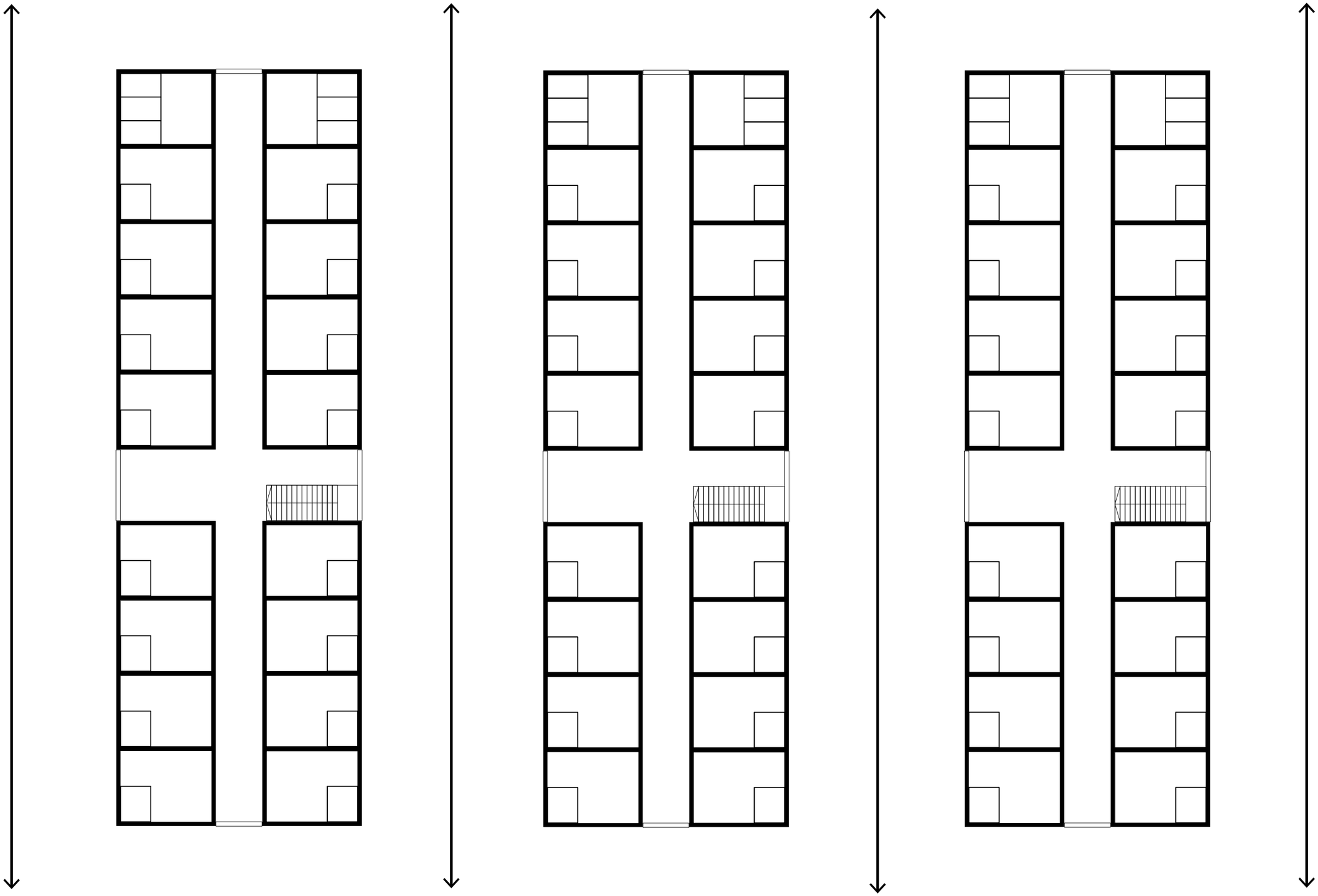
1 front corridor 2 multipurpose room 3 kitchen 4 mori converted to bathroom 5 back corridor 6 land-lord's house



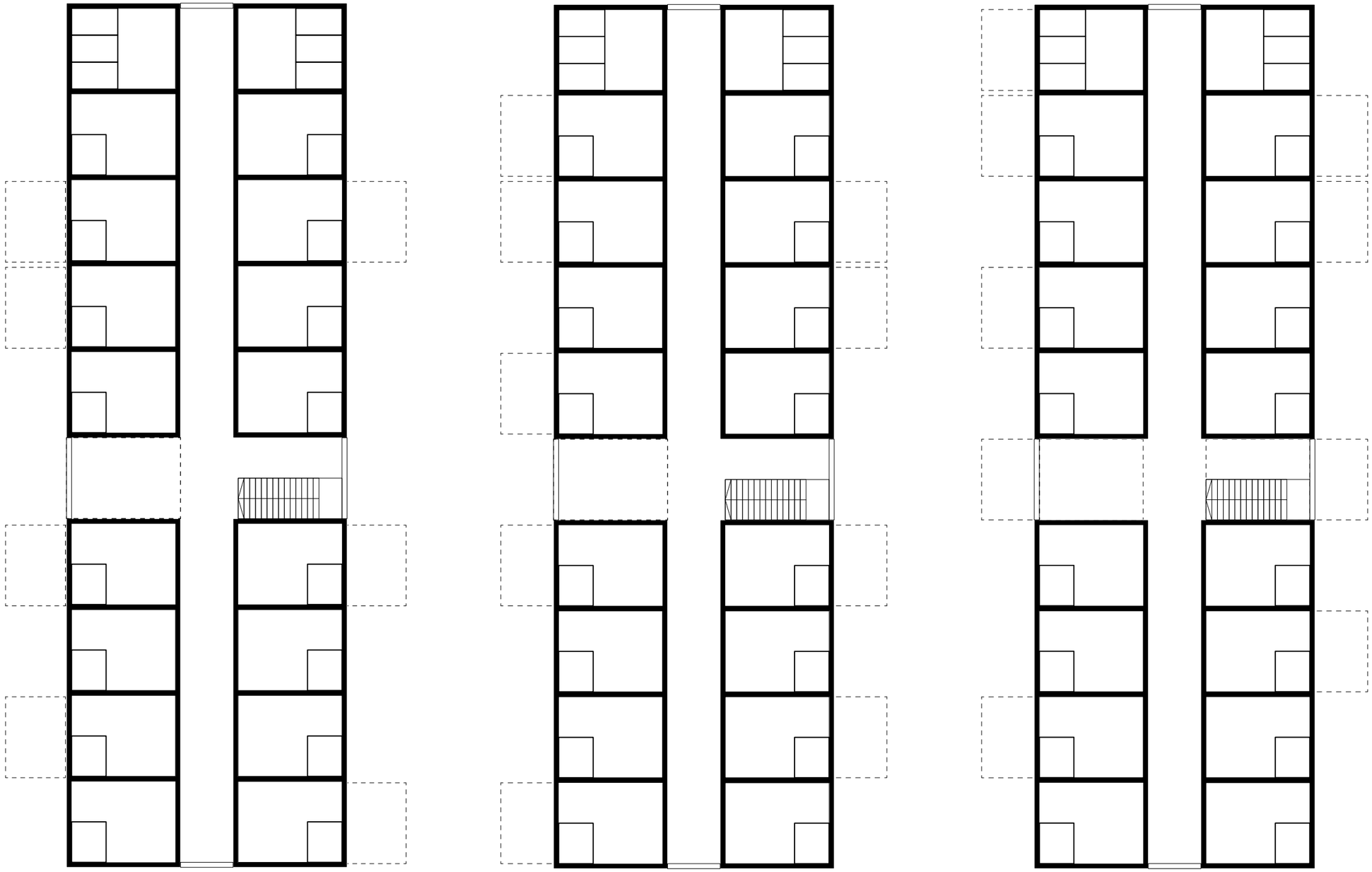
BDD chawl



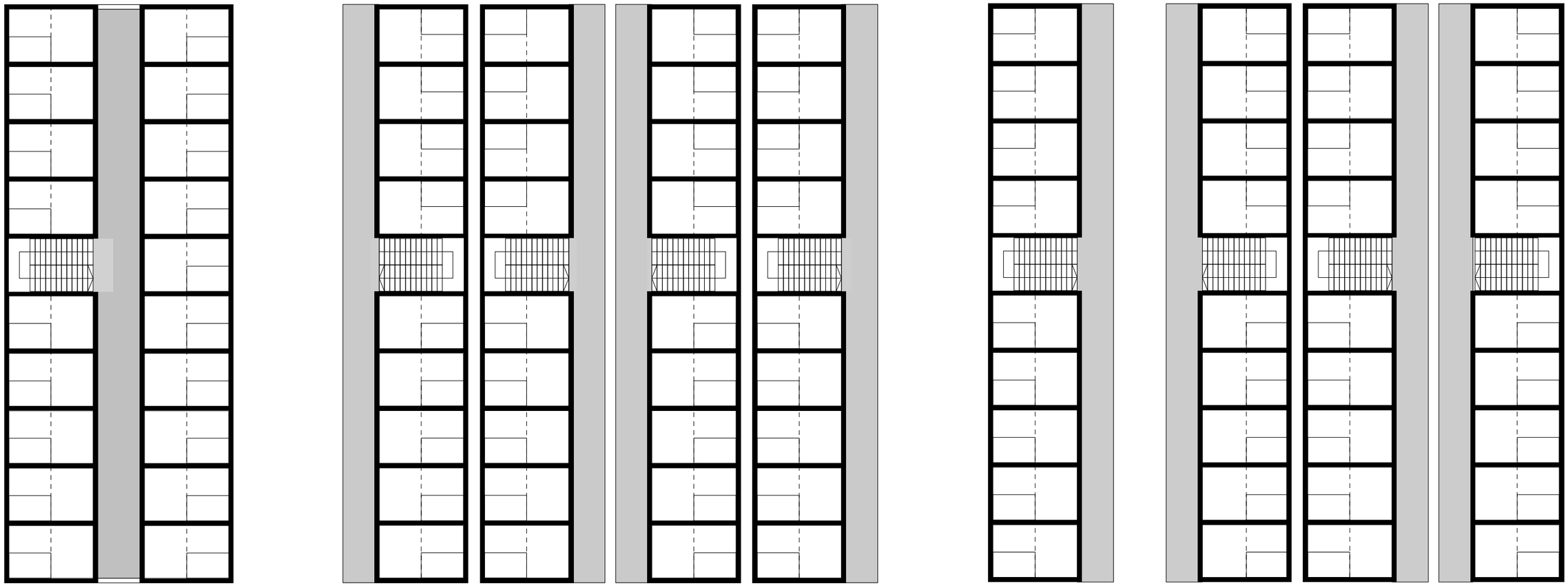
BDD chawl



BDD chawl



BDD chawl



A B C

‘handshake’ chawl

Mumbai’s Affordable Housing Policy

Pradham Mantri Awas Yojana (PMAY-U)

“Housing For All”

20 million houses by March 2022

1 Credit Linked Susidy Scheme (CLSS)

2 In situ Slum Redevelelopment (ISSR)

3 Affordable Housing in Partnership (AHP)

4 Beneficiary Led Construction (BLC)

1 Credit Linked Susidy Scheme (CLSS)

2 In situ Slum Redevelelopment (ISSR)

3 Affordable Housing in Partnership (AHP)

4 Beneficiary Led Construction (BLC)

250 units

EWS

LIG

MIG

EWS

LIG

MIG

min 35%

unlocks **AHP** Central funding
of **1.5 lakh/house**

CLSS ***nullifies interest*** *on banks*

EWS

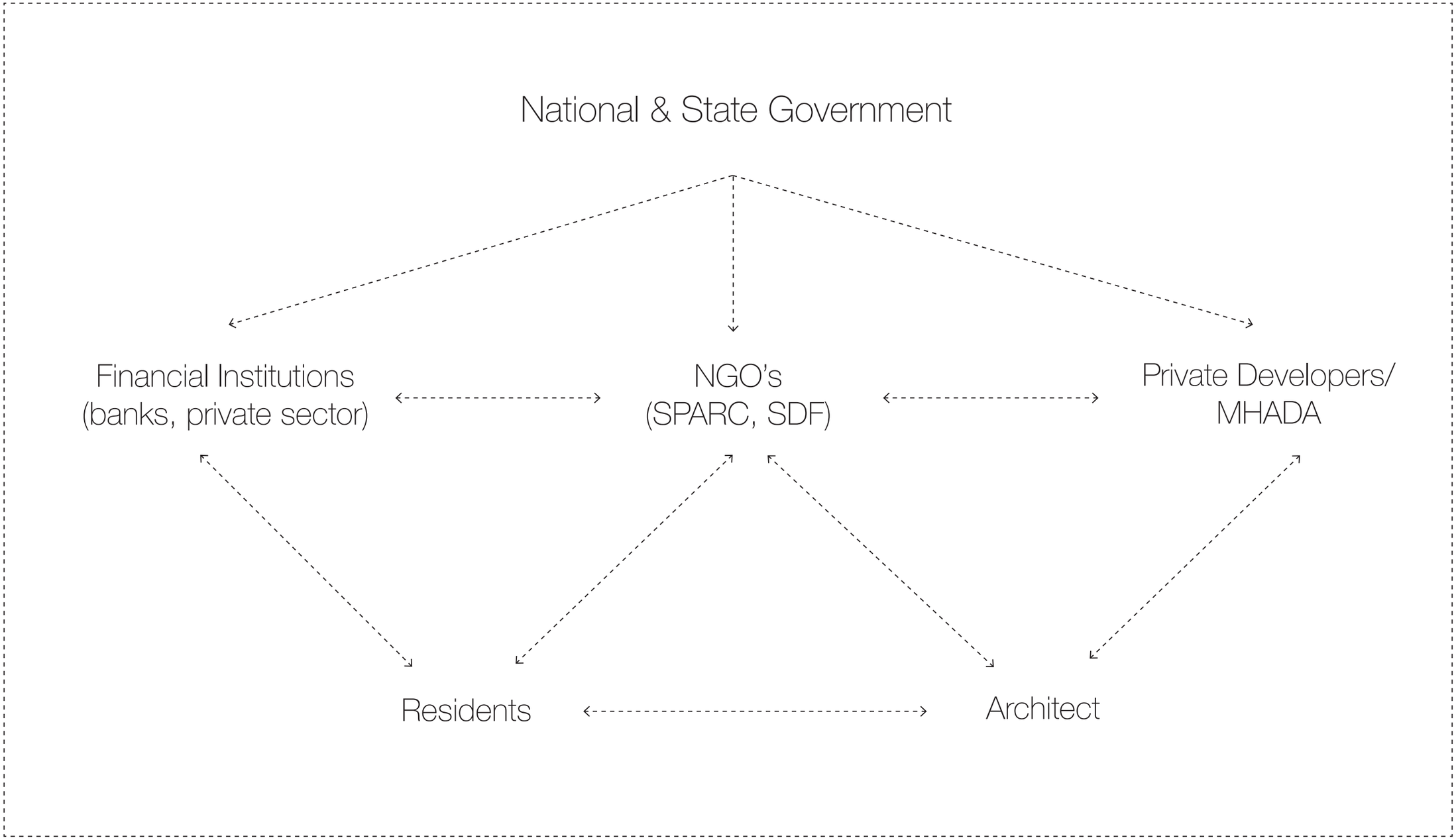
LIG

MIG

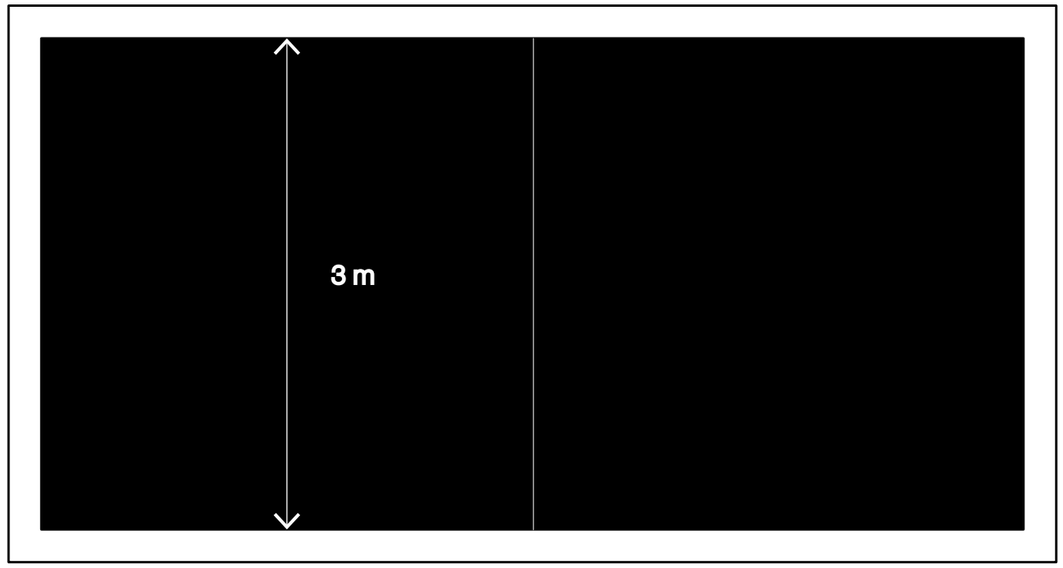
min 35%

unlocks **AHP** Central funding
of **1.5 lakh/house**

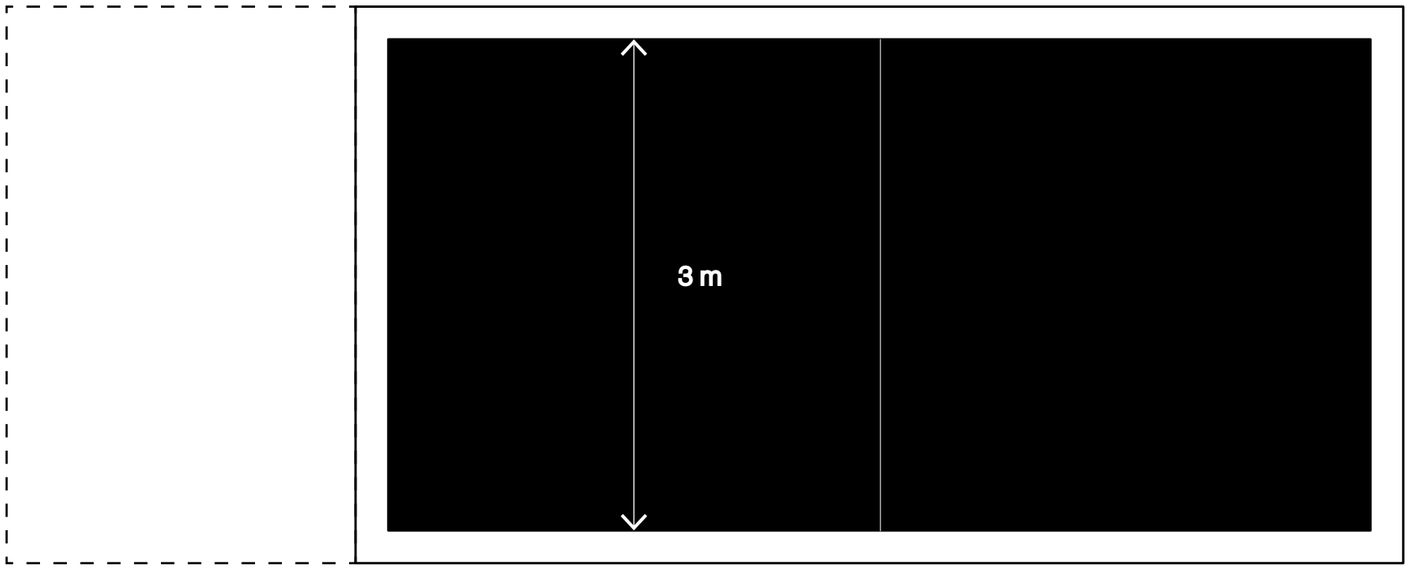
national policy umbrella (CLSS, AHP)

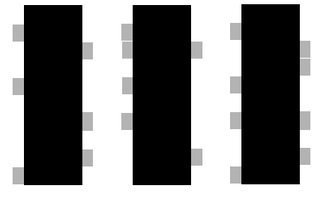


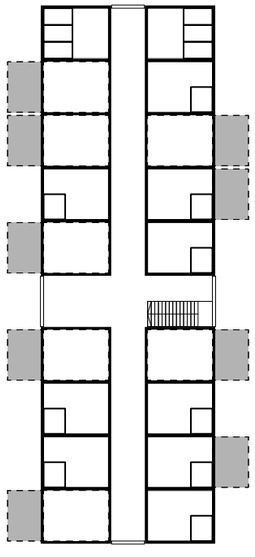
Typological Genealogy



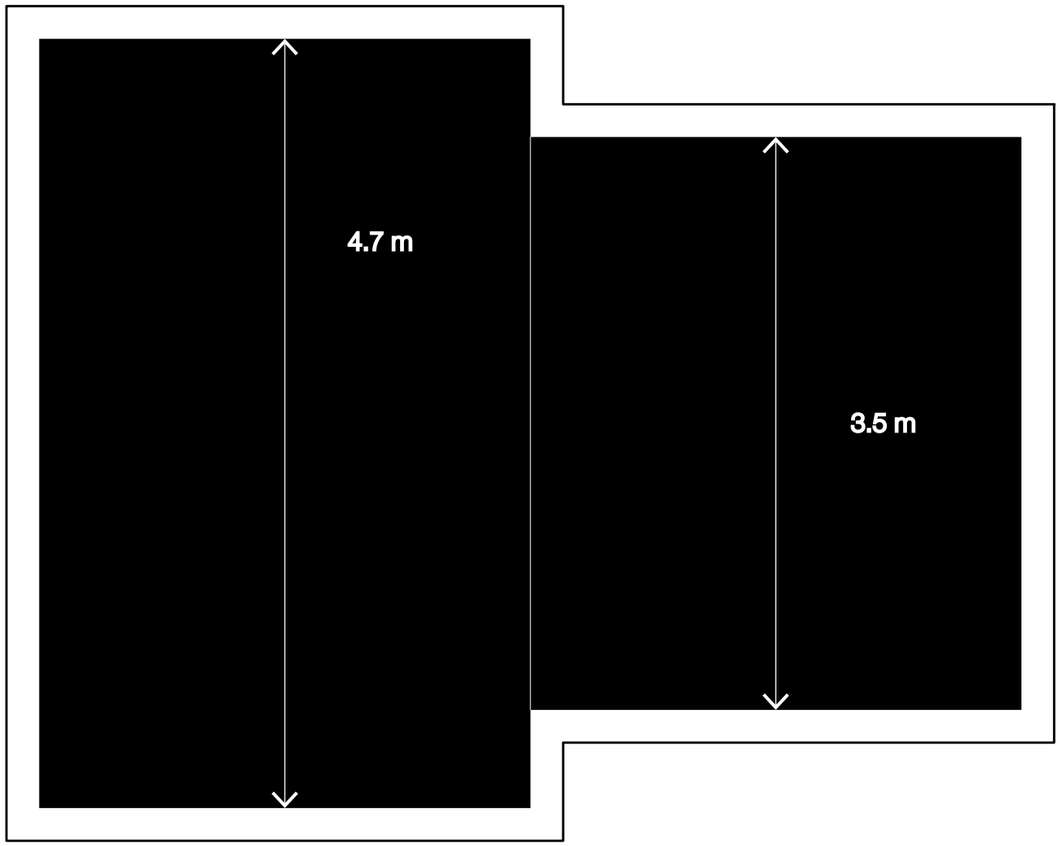
standard section



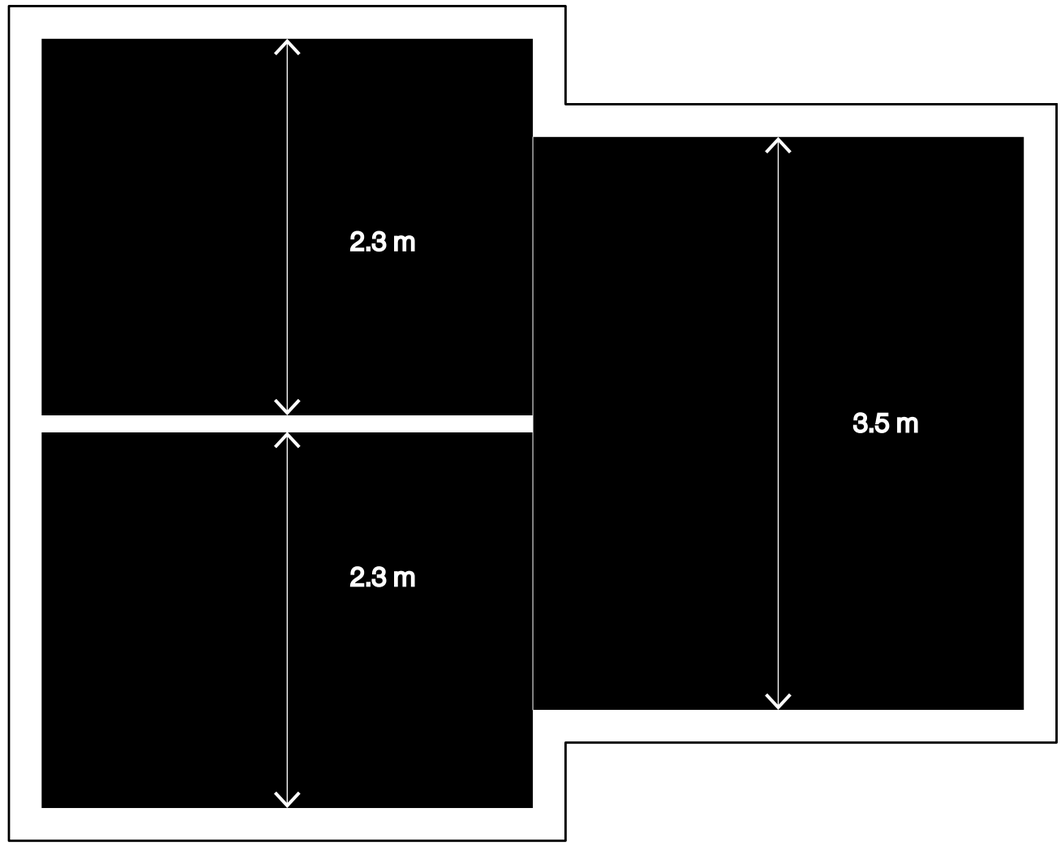




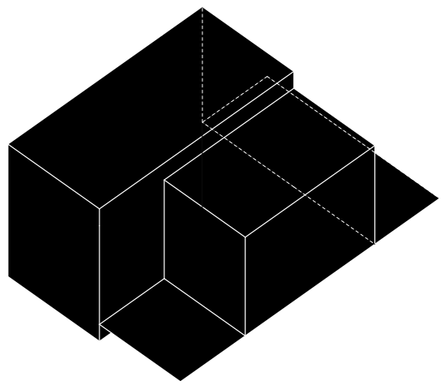
standard expansion



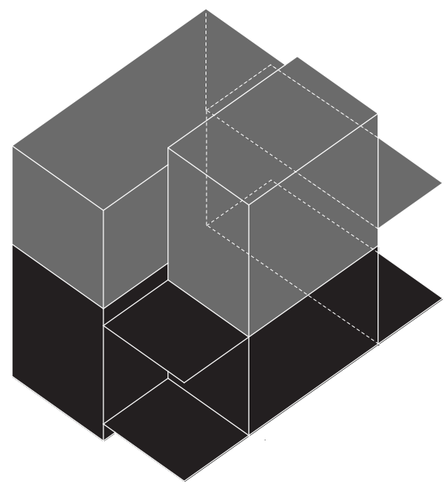
split level mezzanine



split level mezzanine



stacking



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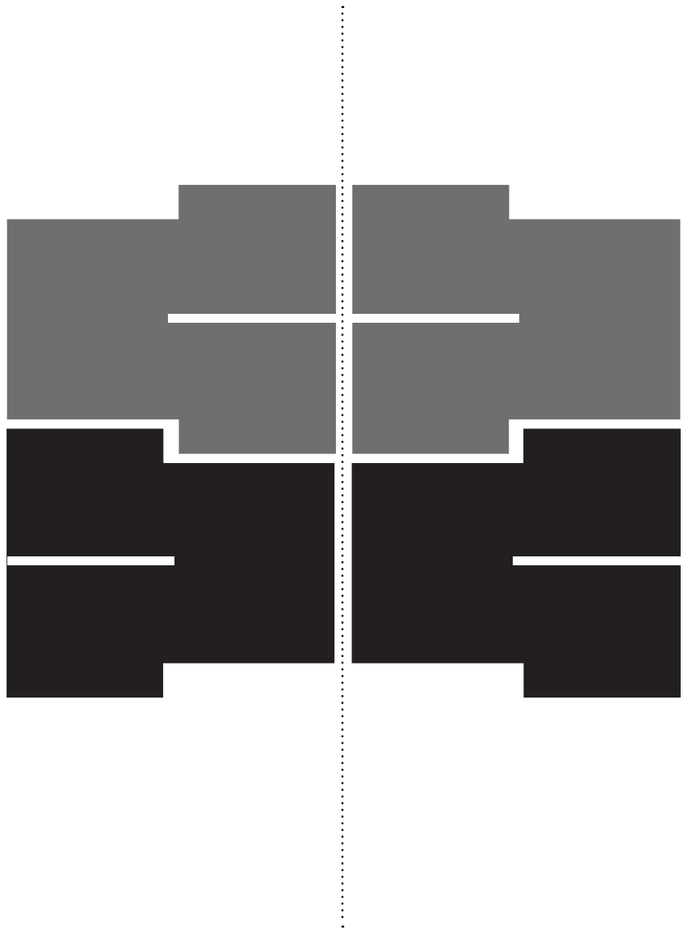
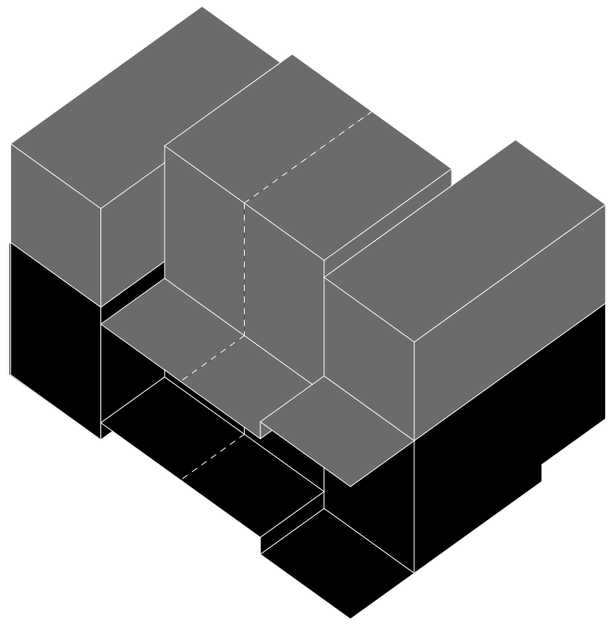
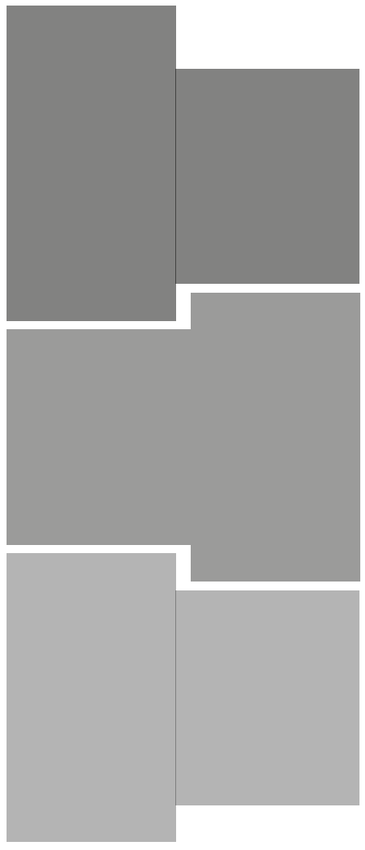
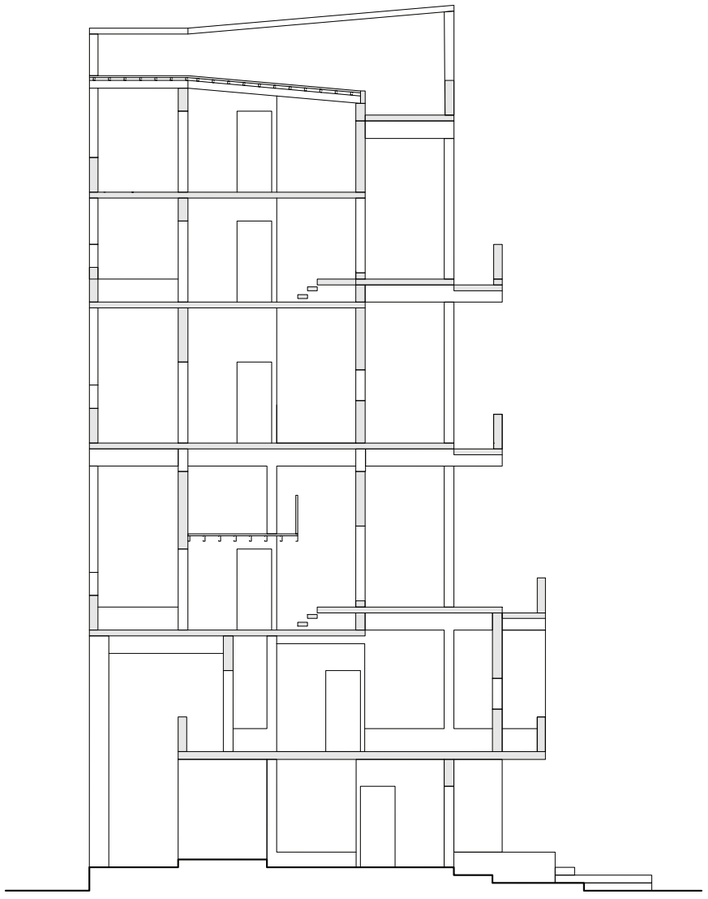




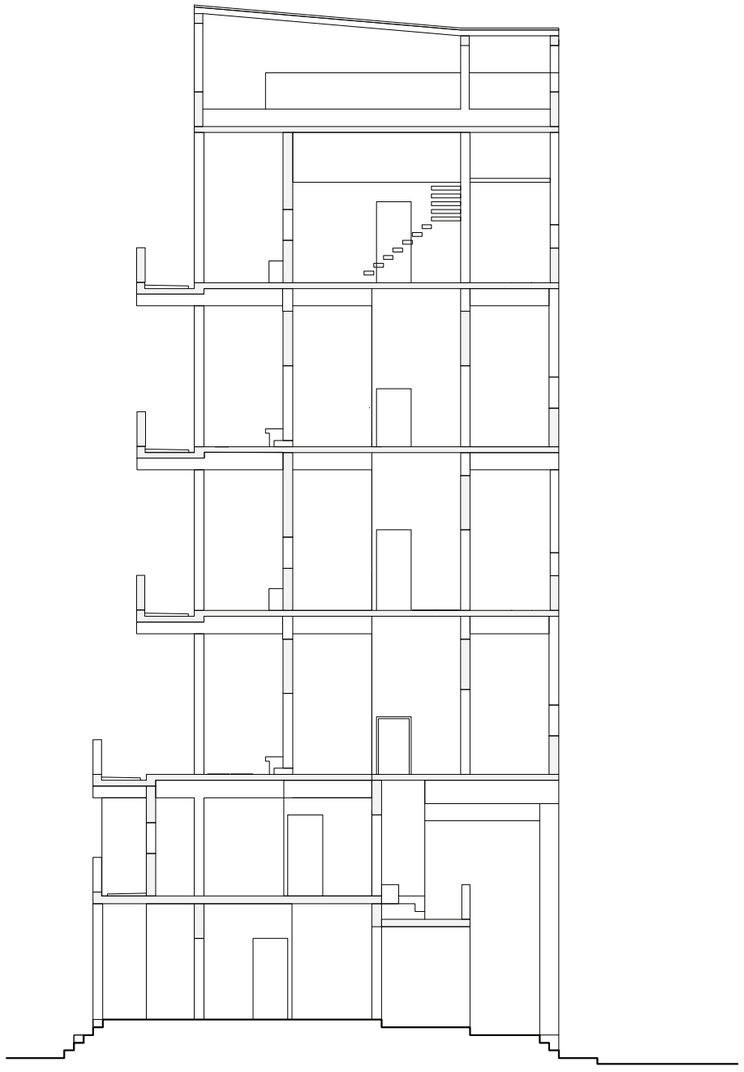
stacking



inverse stacking

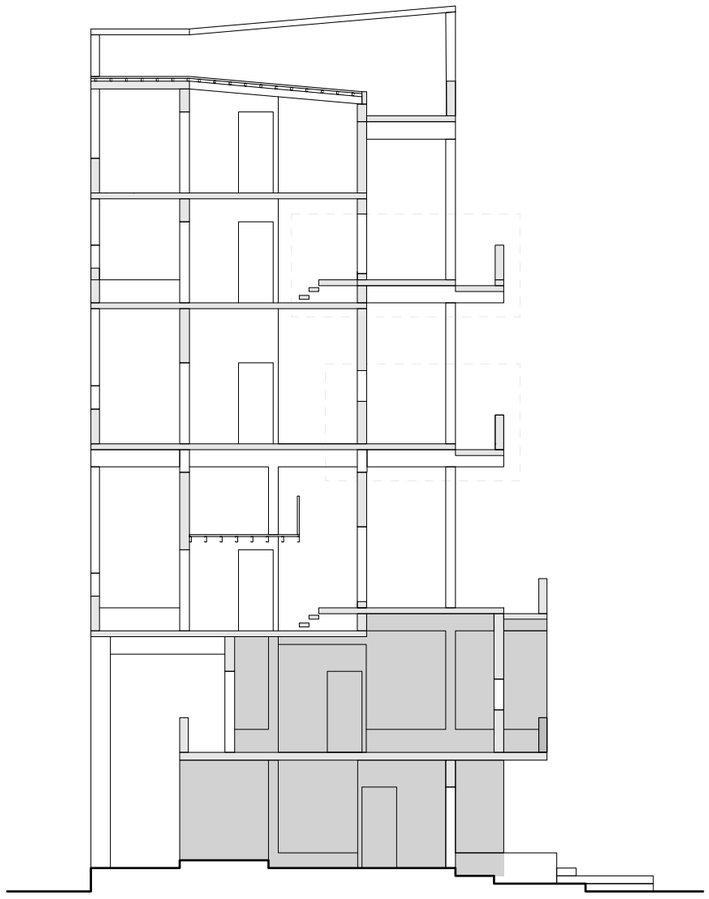


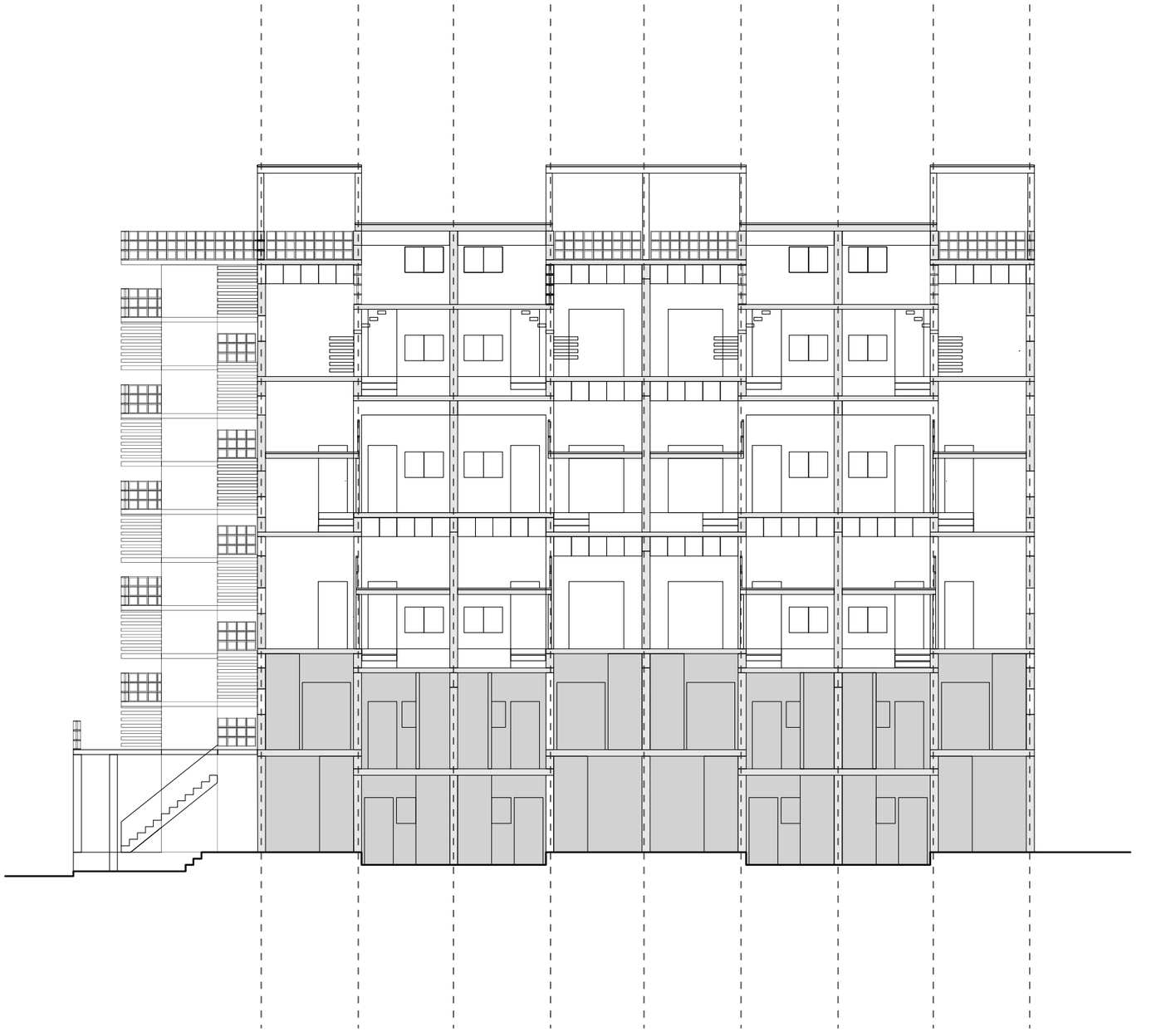
G+5; accessable roof



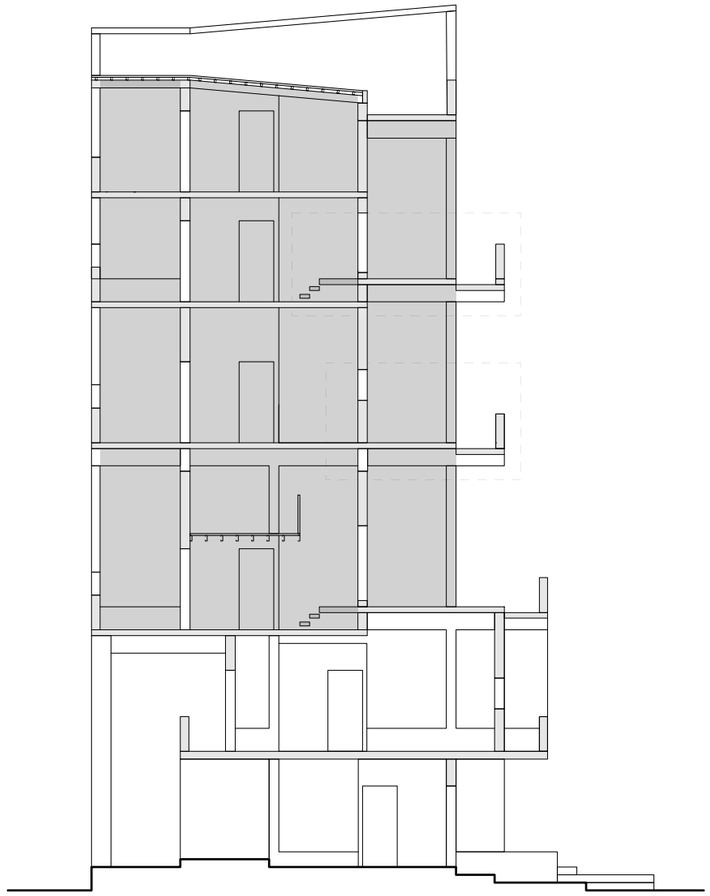
G+6; accessable roof

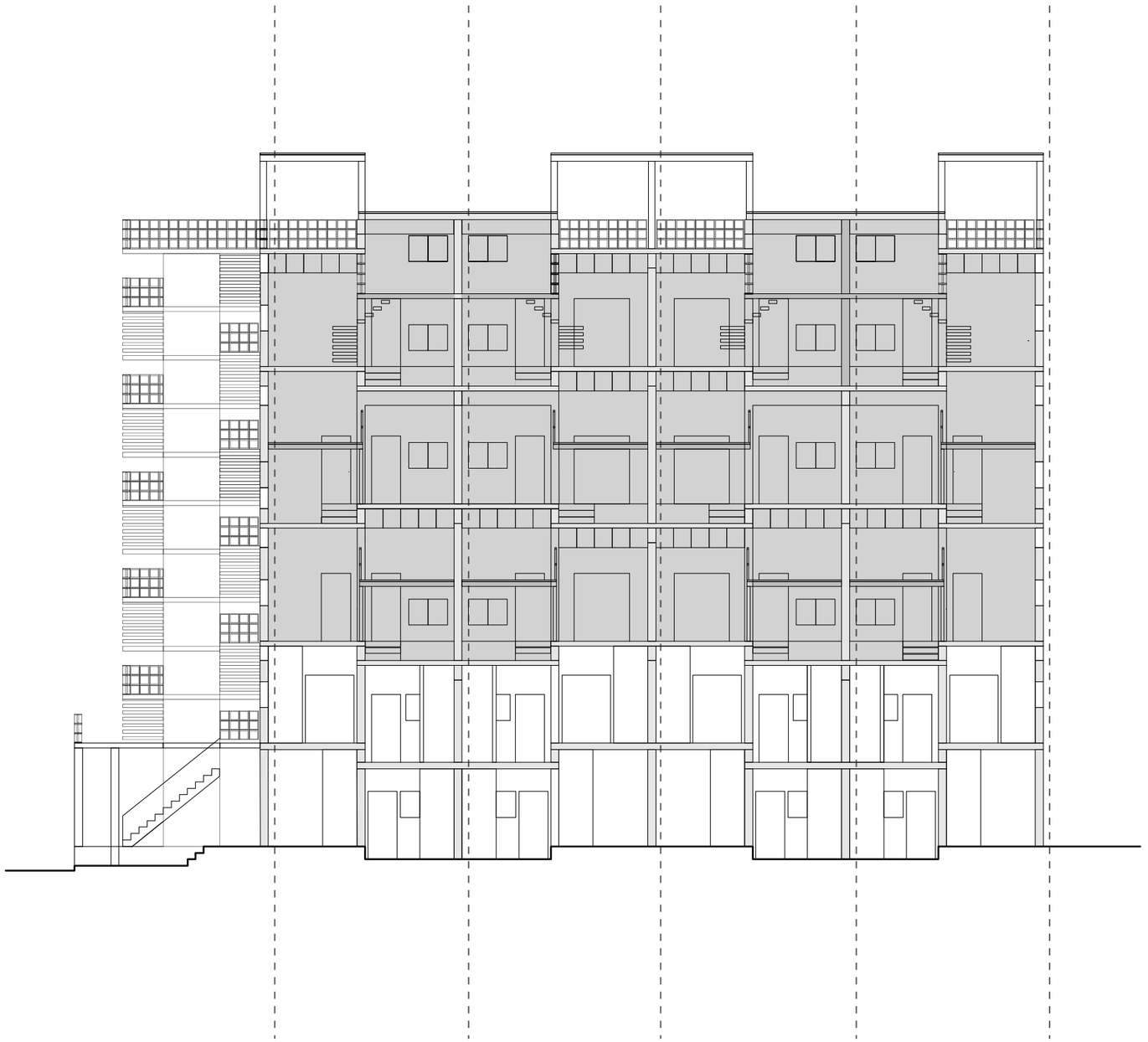
height variations



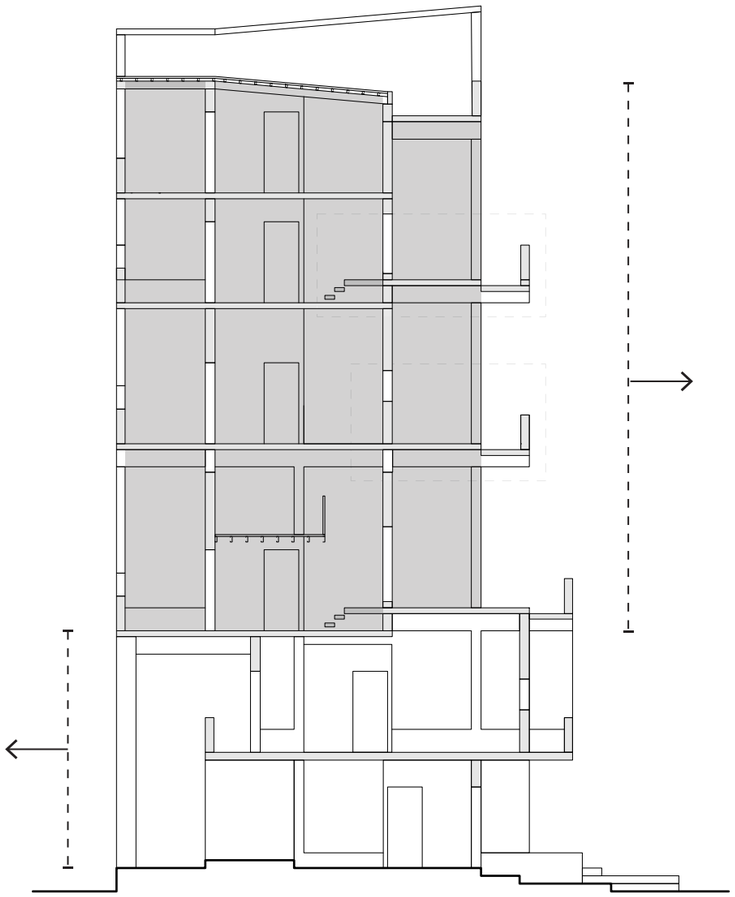


rental model

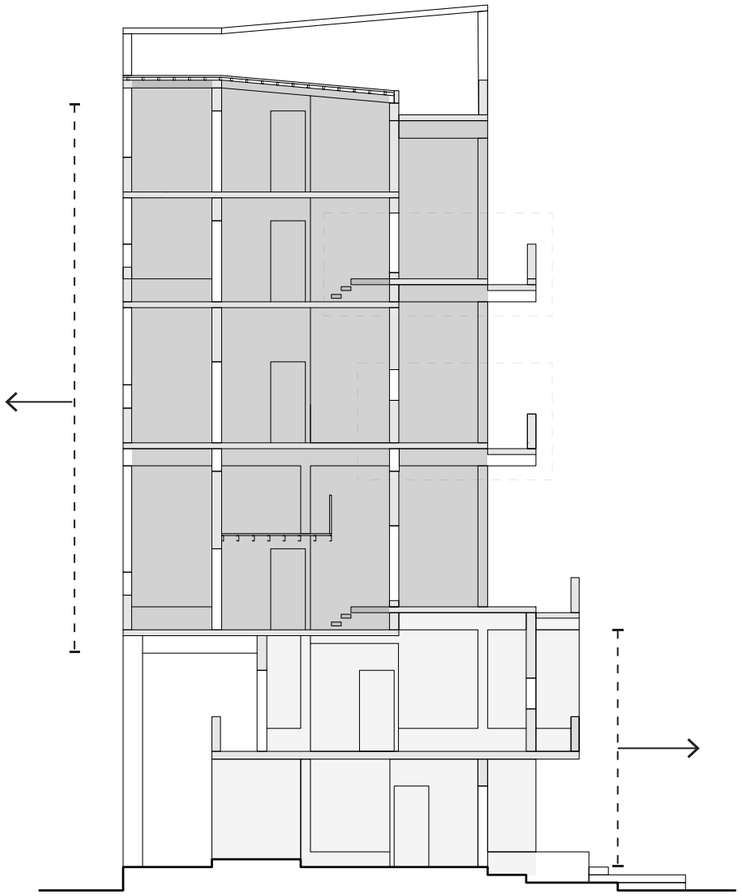




ownership model

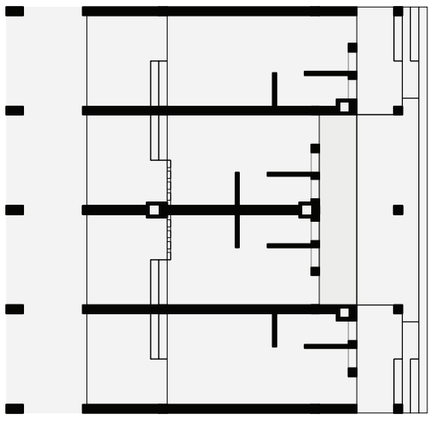


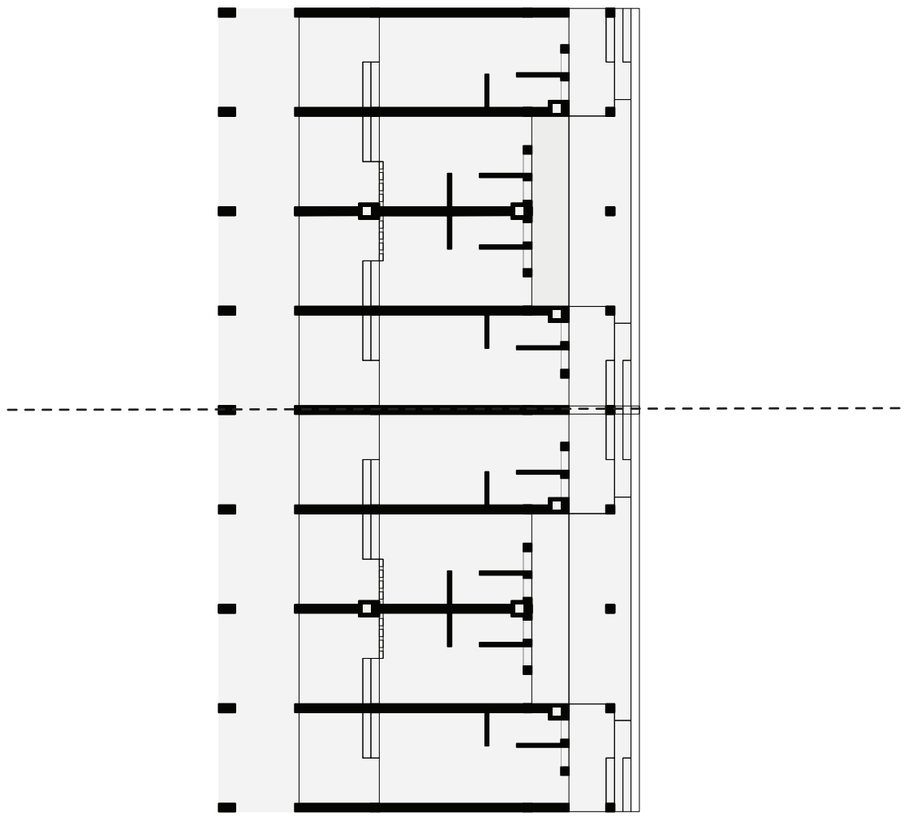
public frontage



private frontage

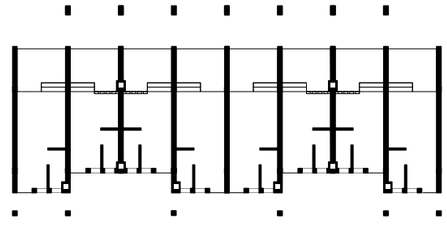
clustering

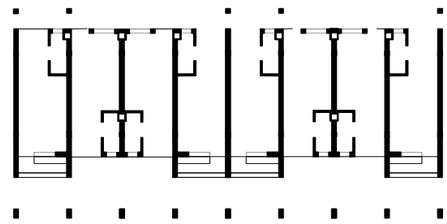




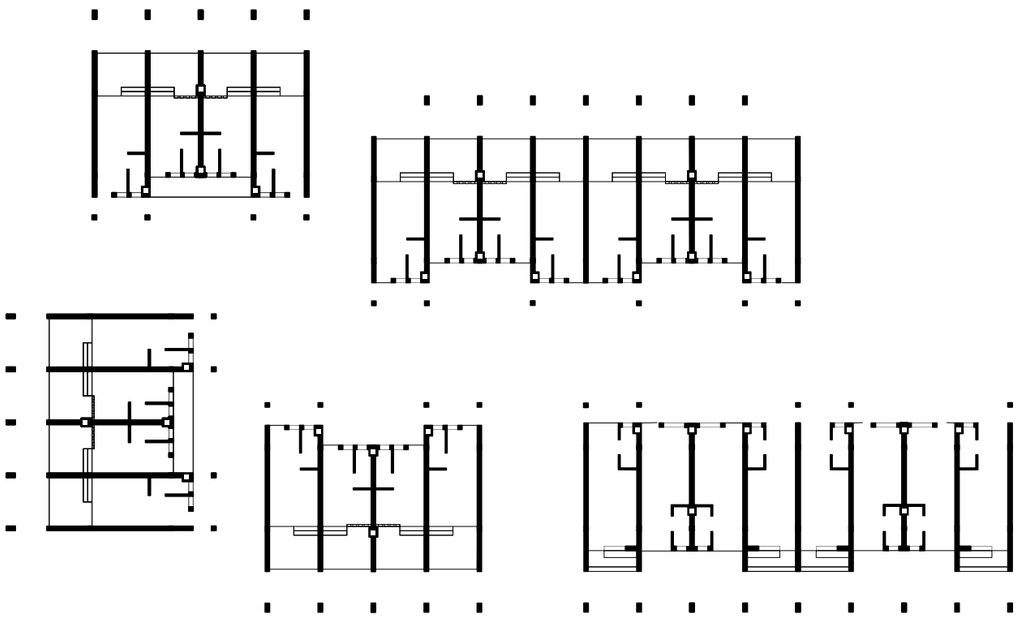
basic building block

basic cluster

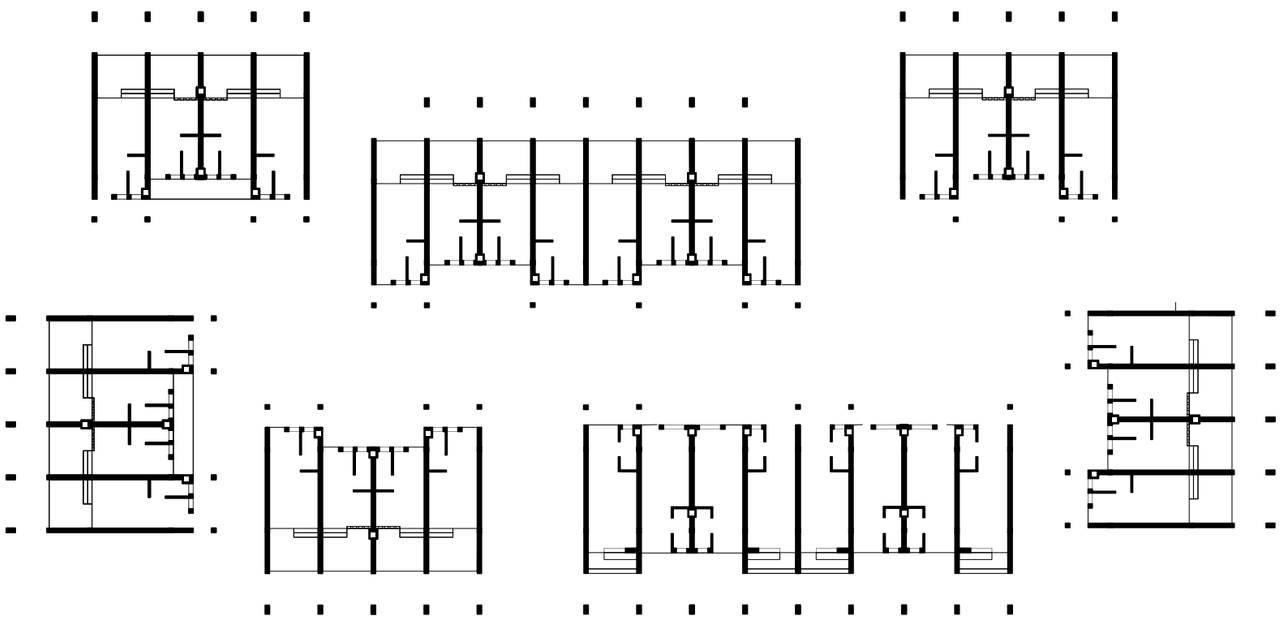


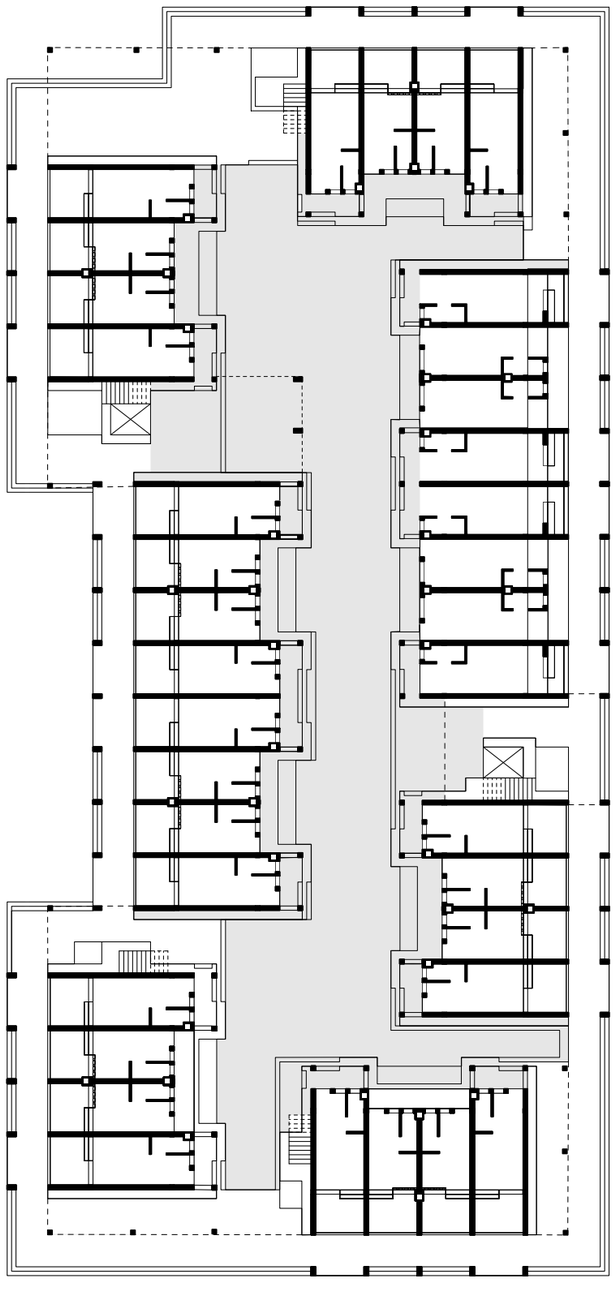


basic cluster

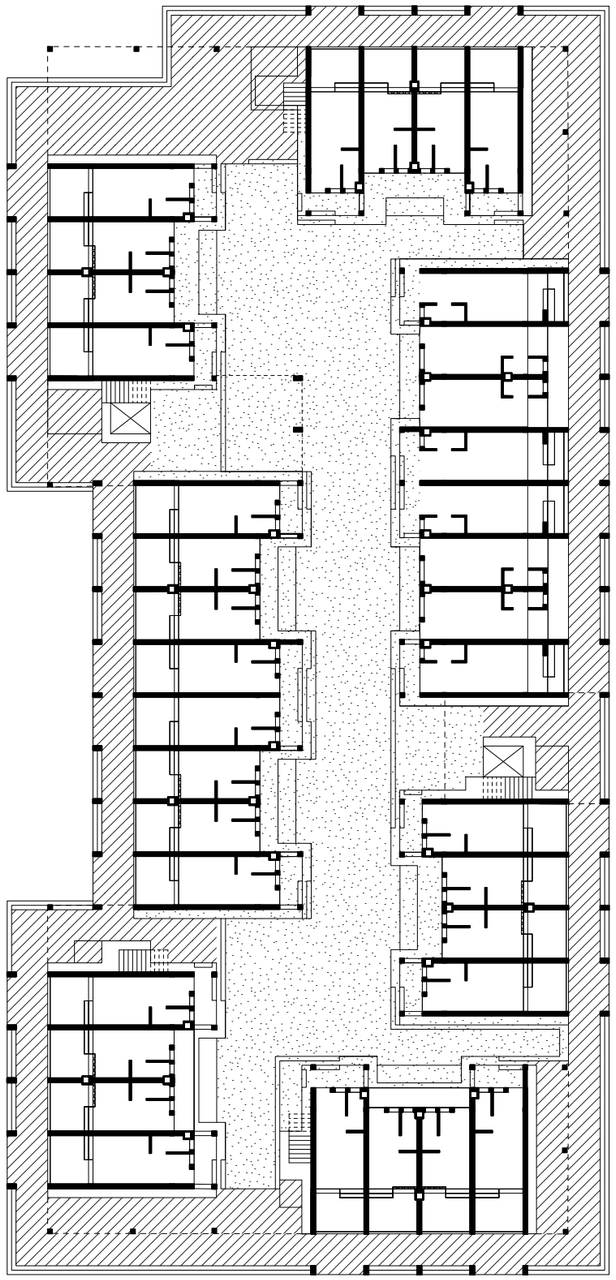


basic cluster

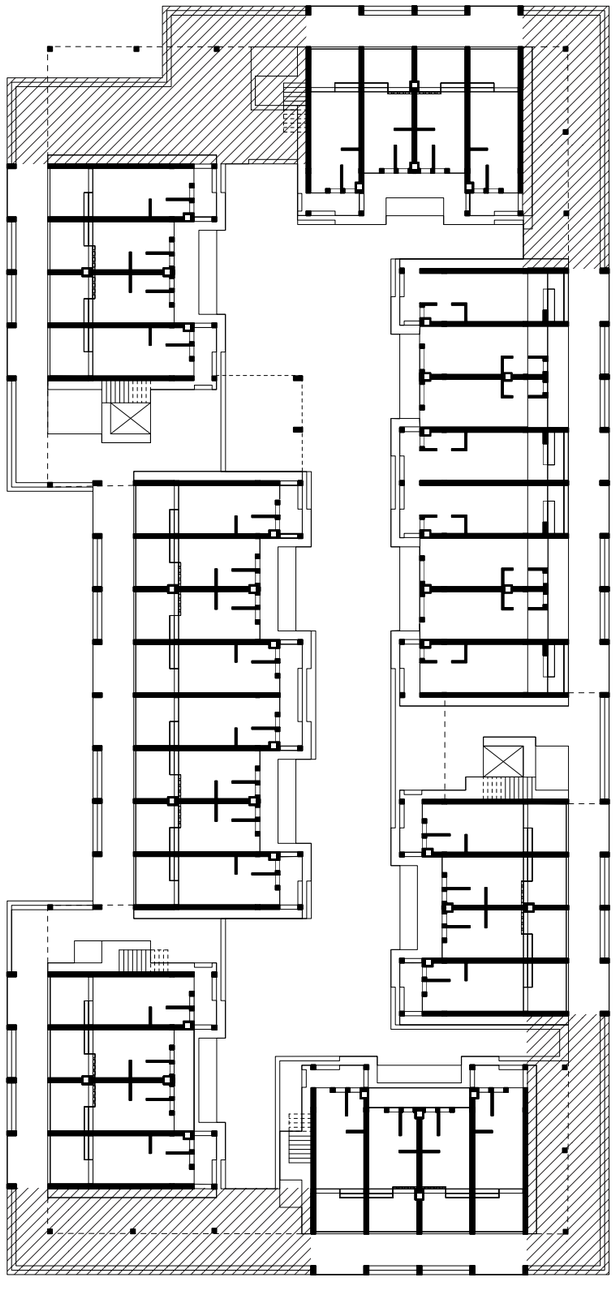




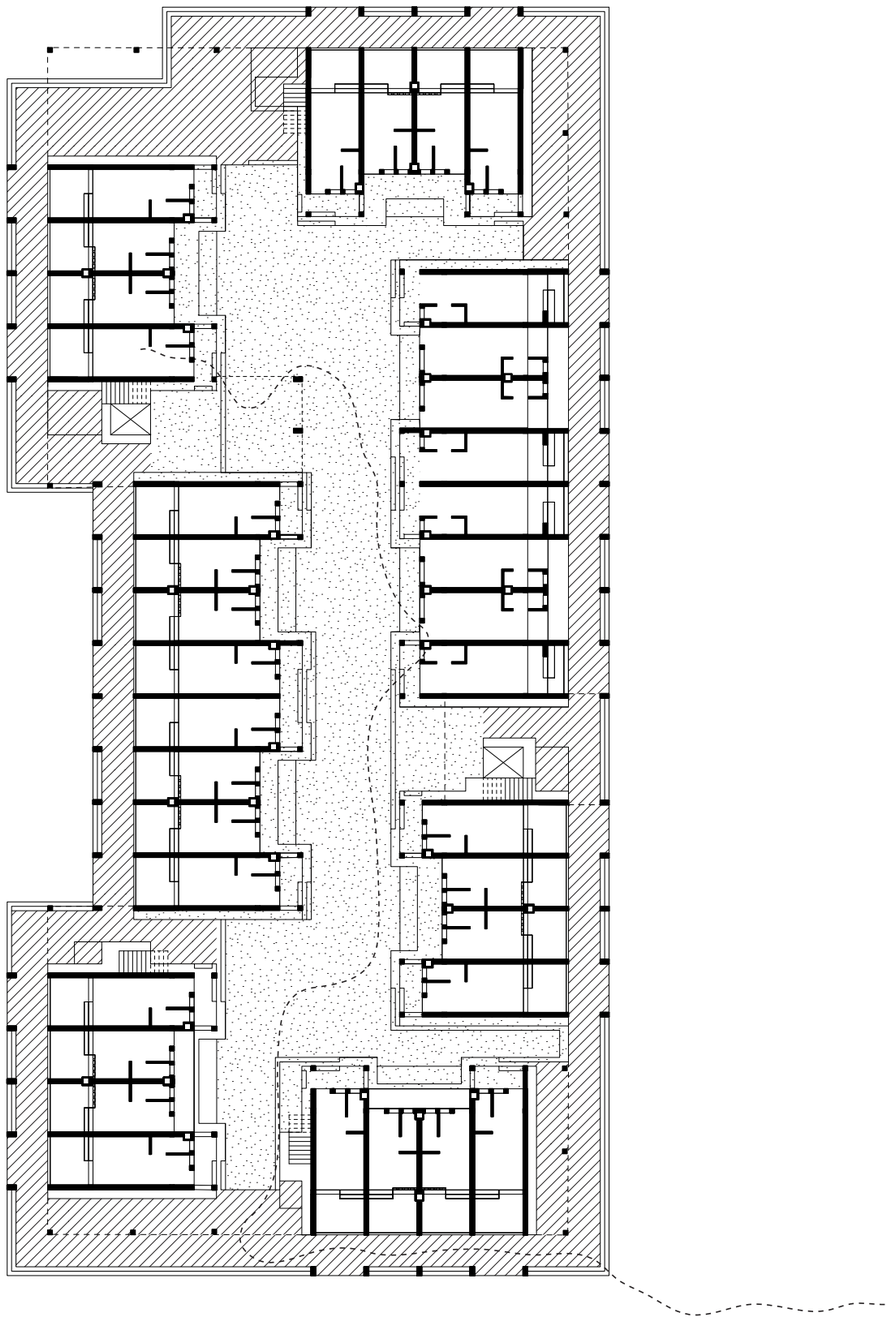
basic cluster



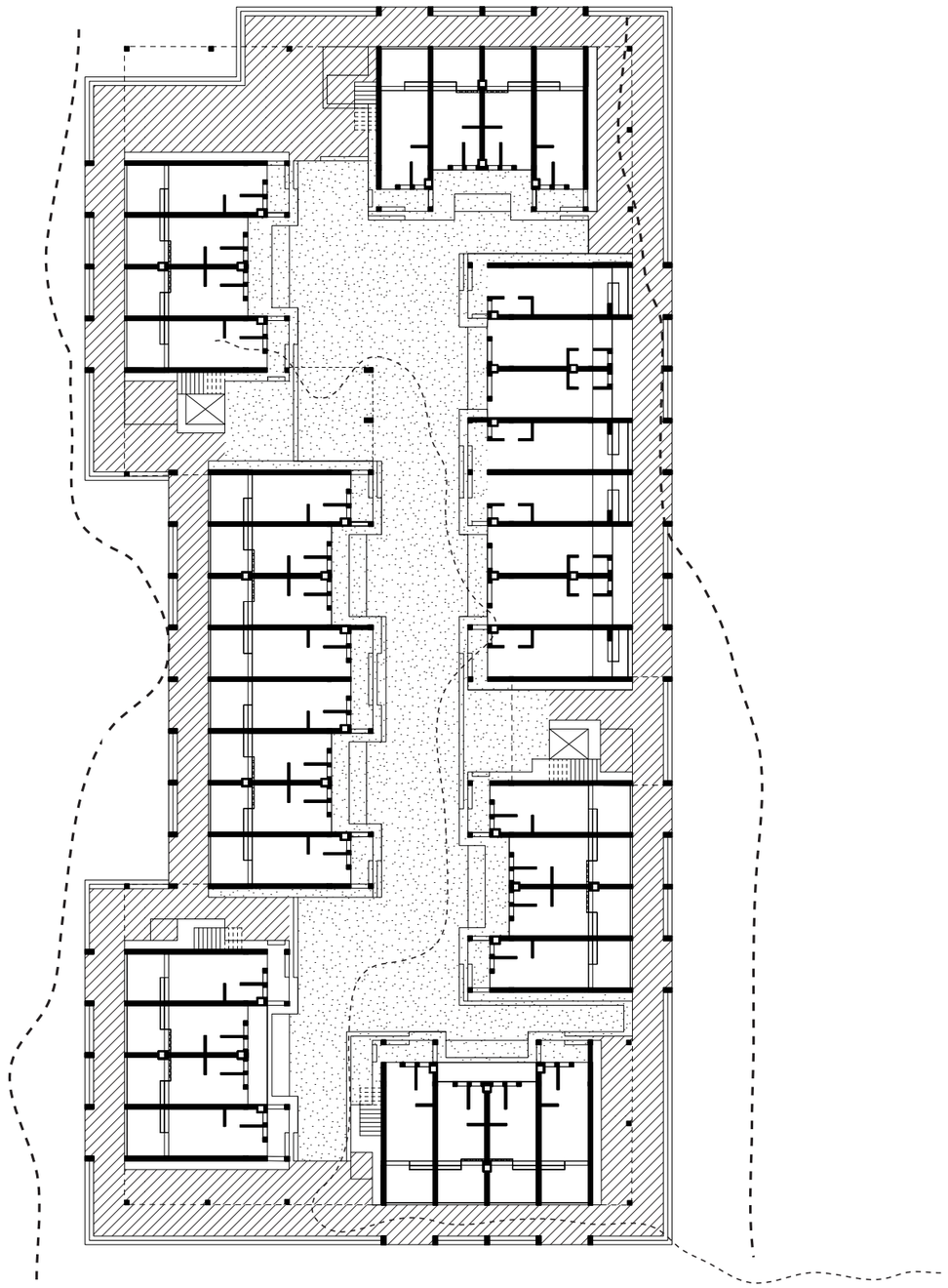
basic cluster



basic cluster

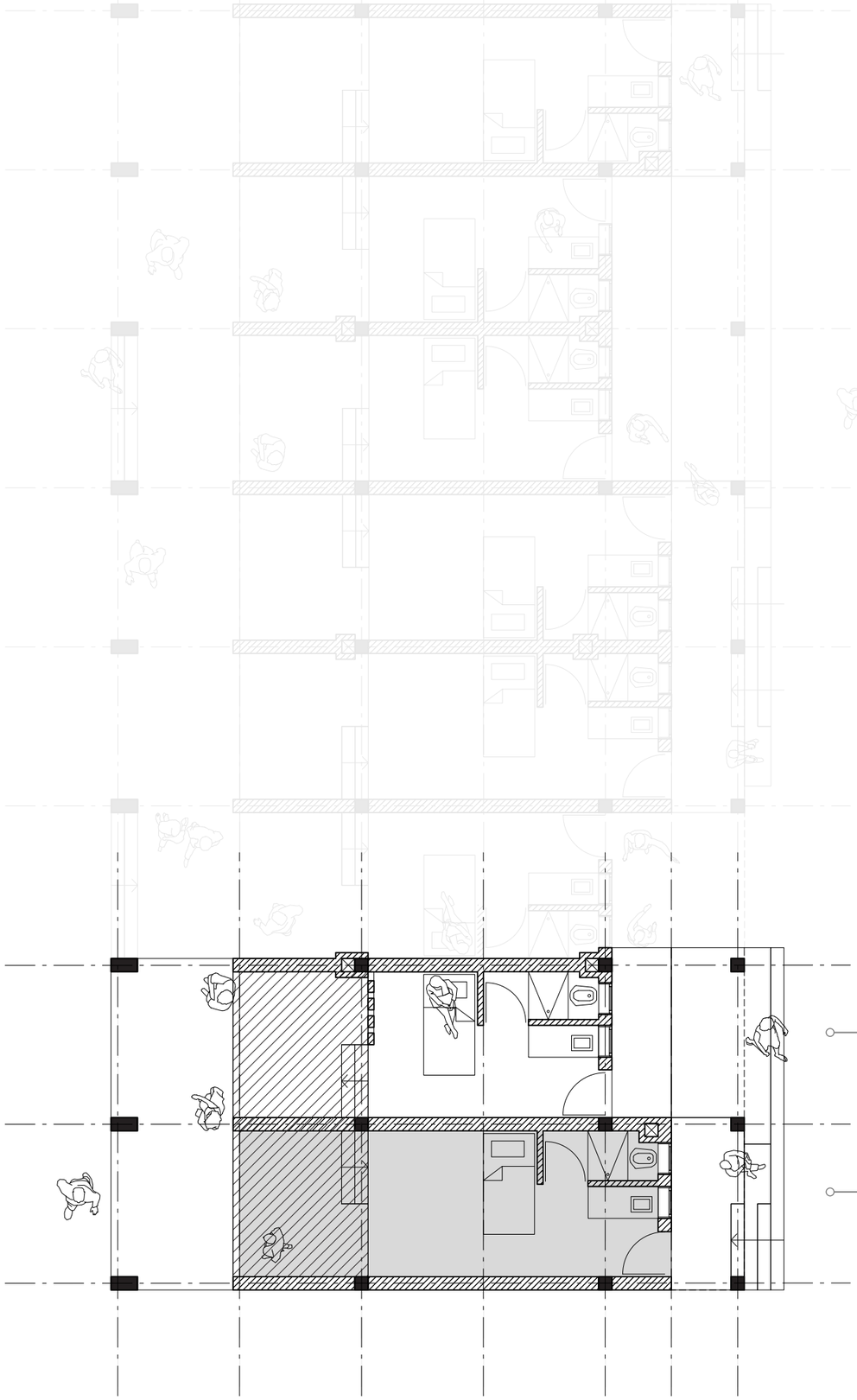


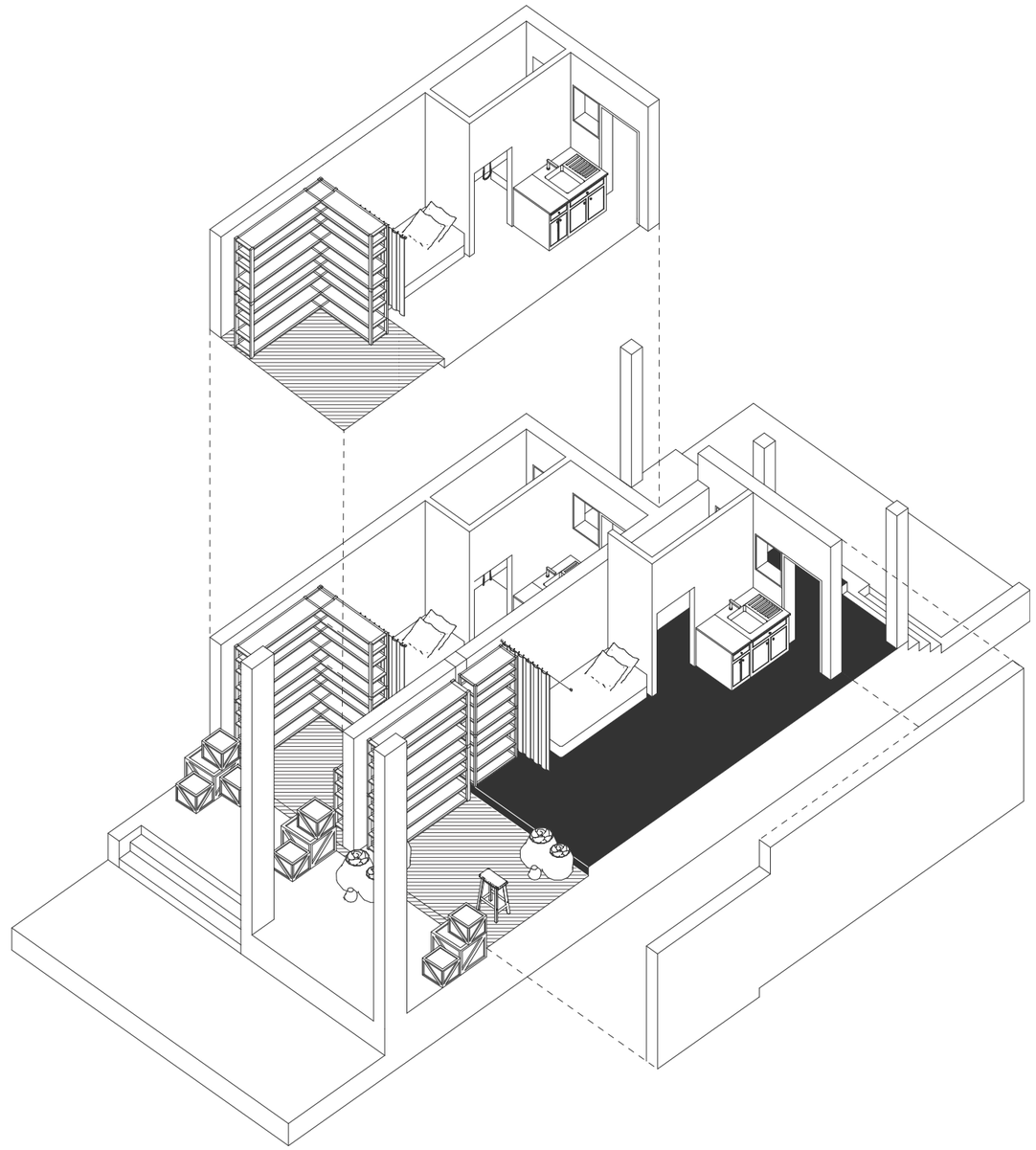
basic cluster

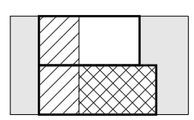


basic cluster

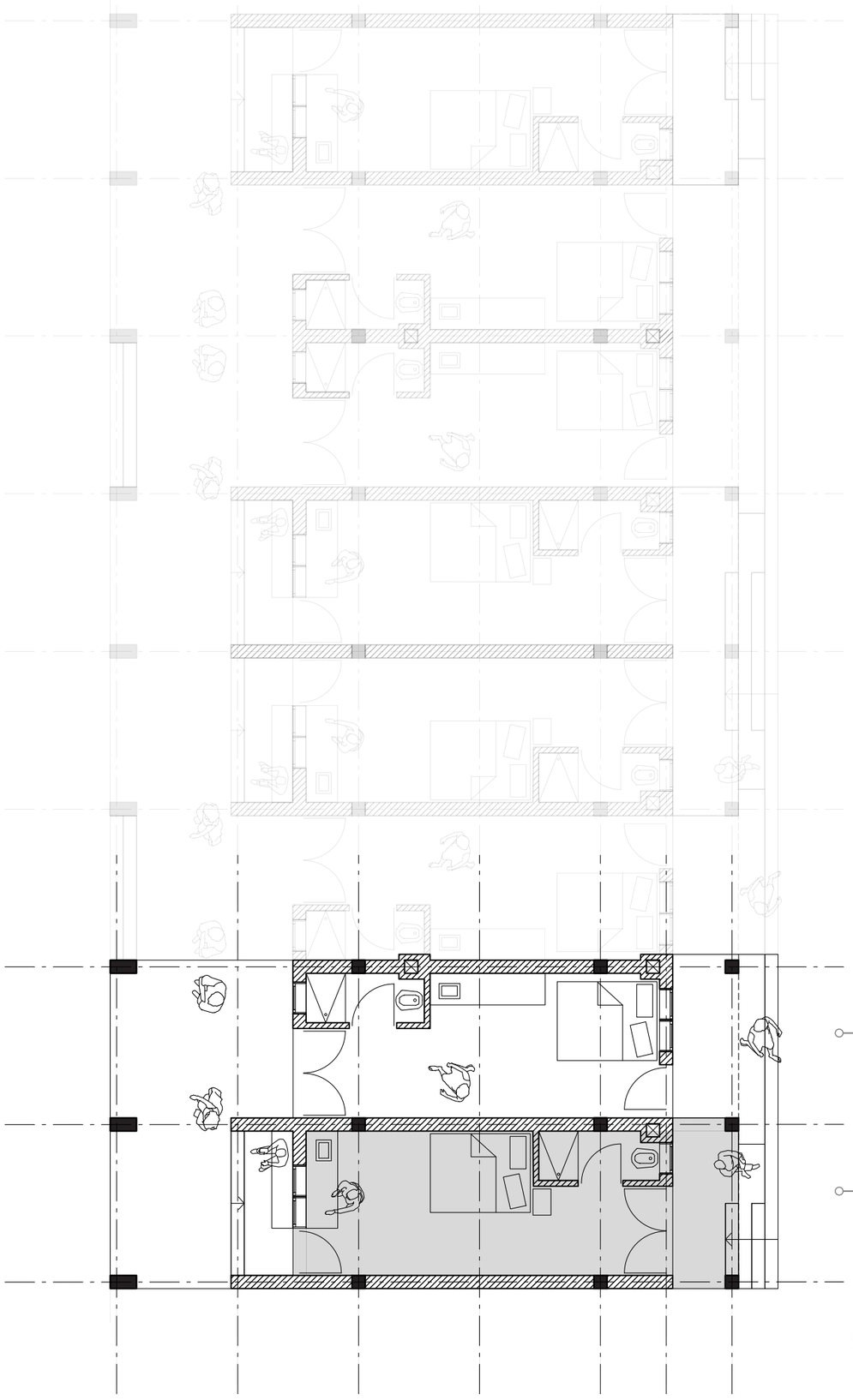
dwelling unit types

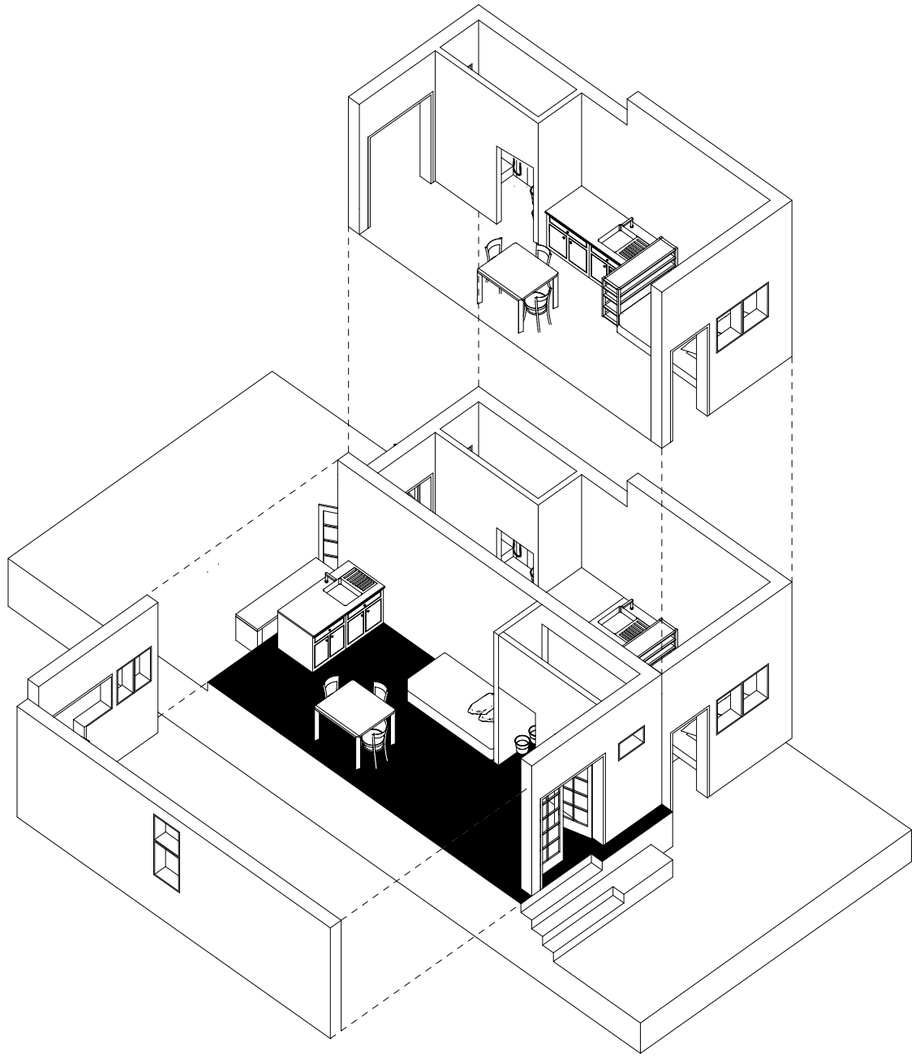


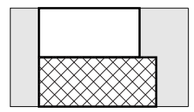




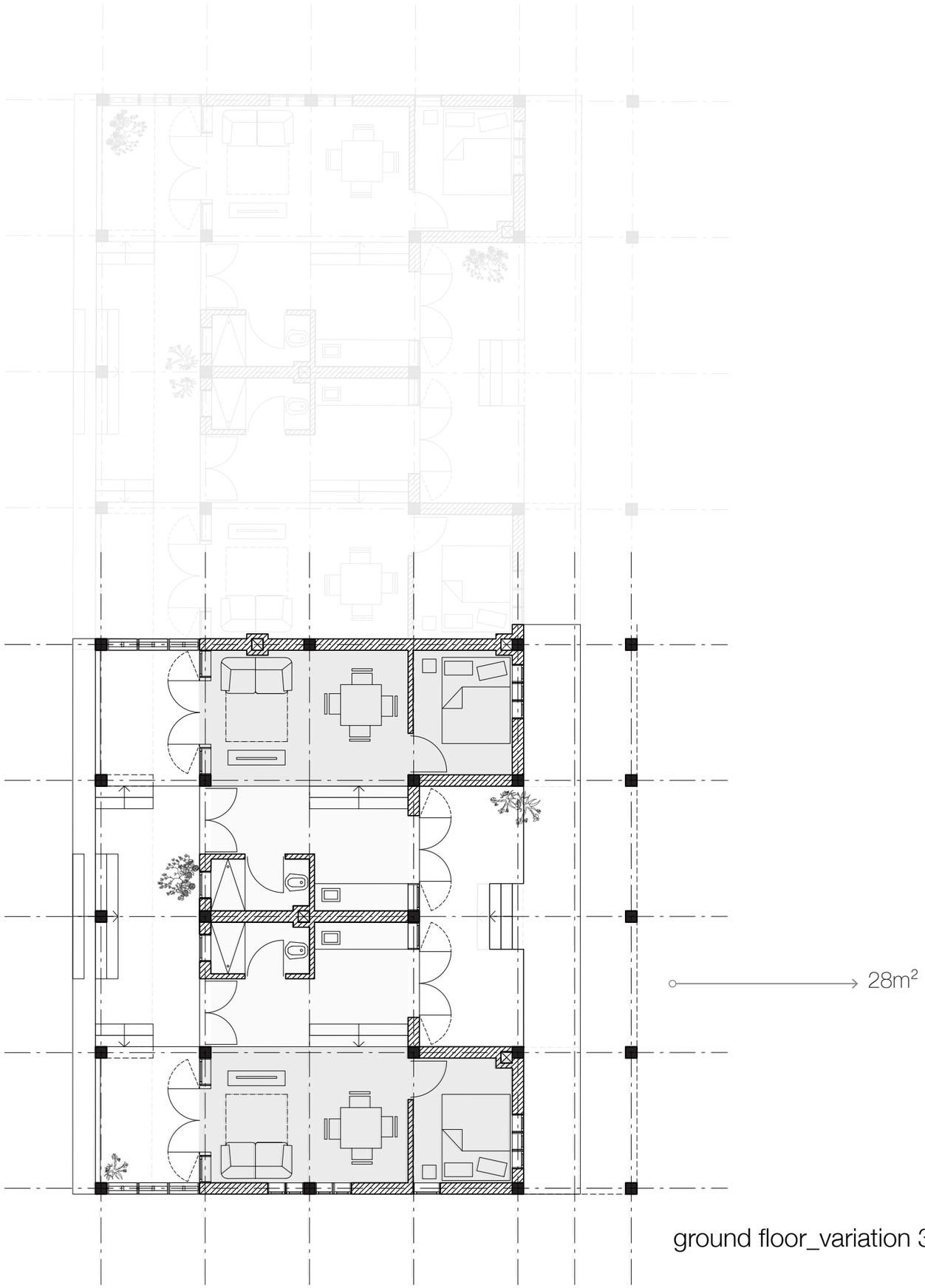
ground_variation 1_live&work (rent)



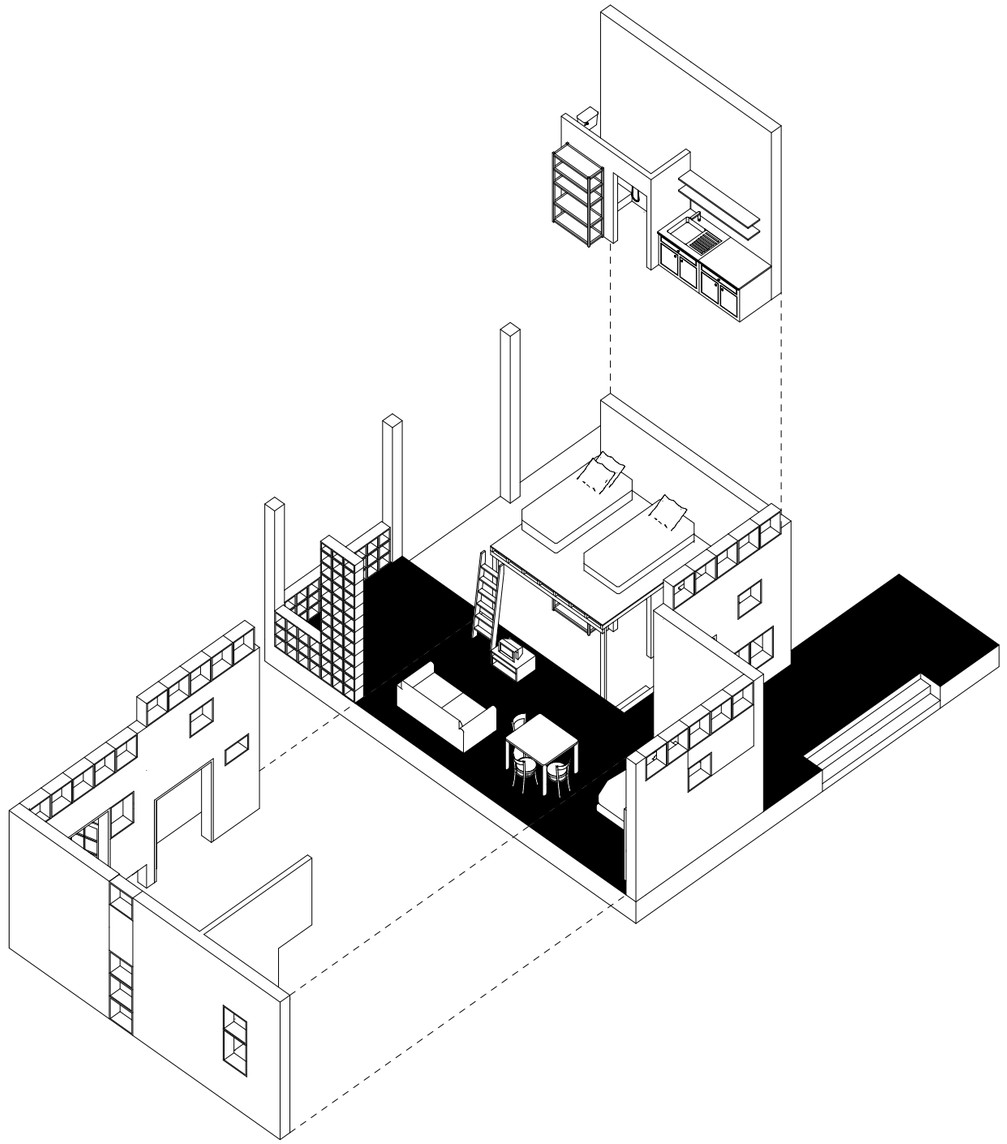


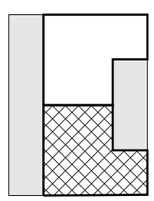


ground floor_variation 2_ rent

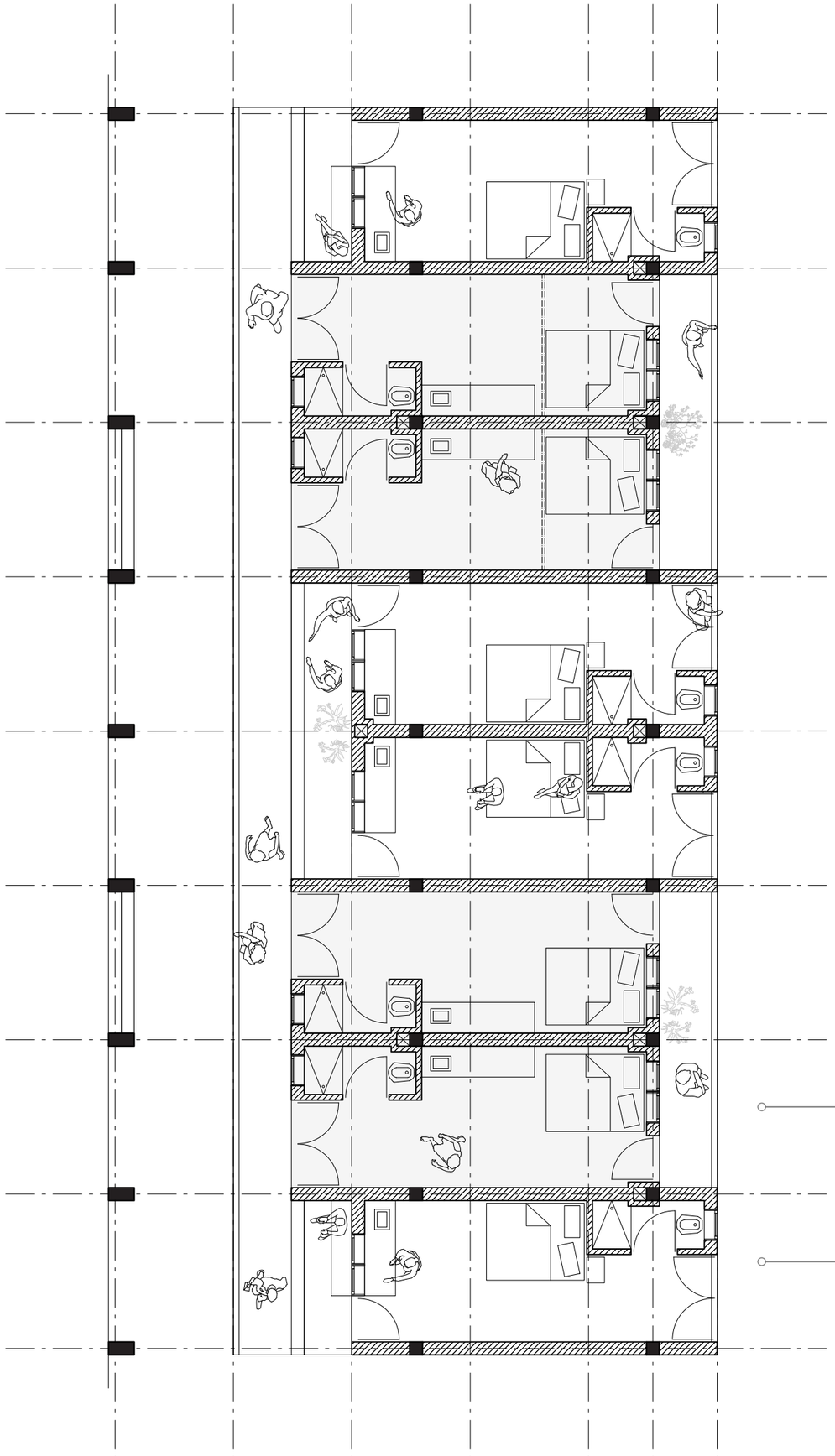


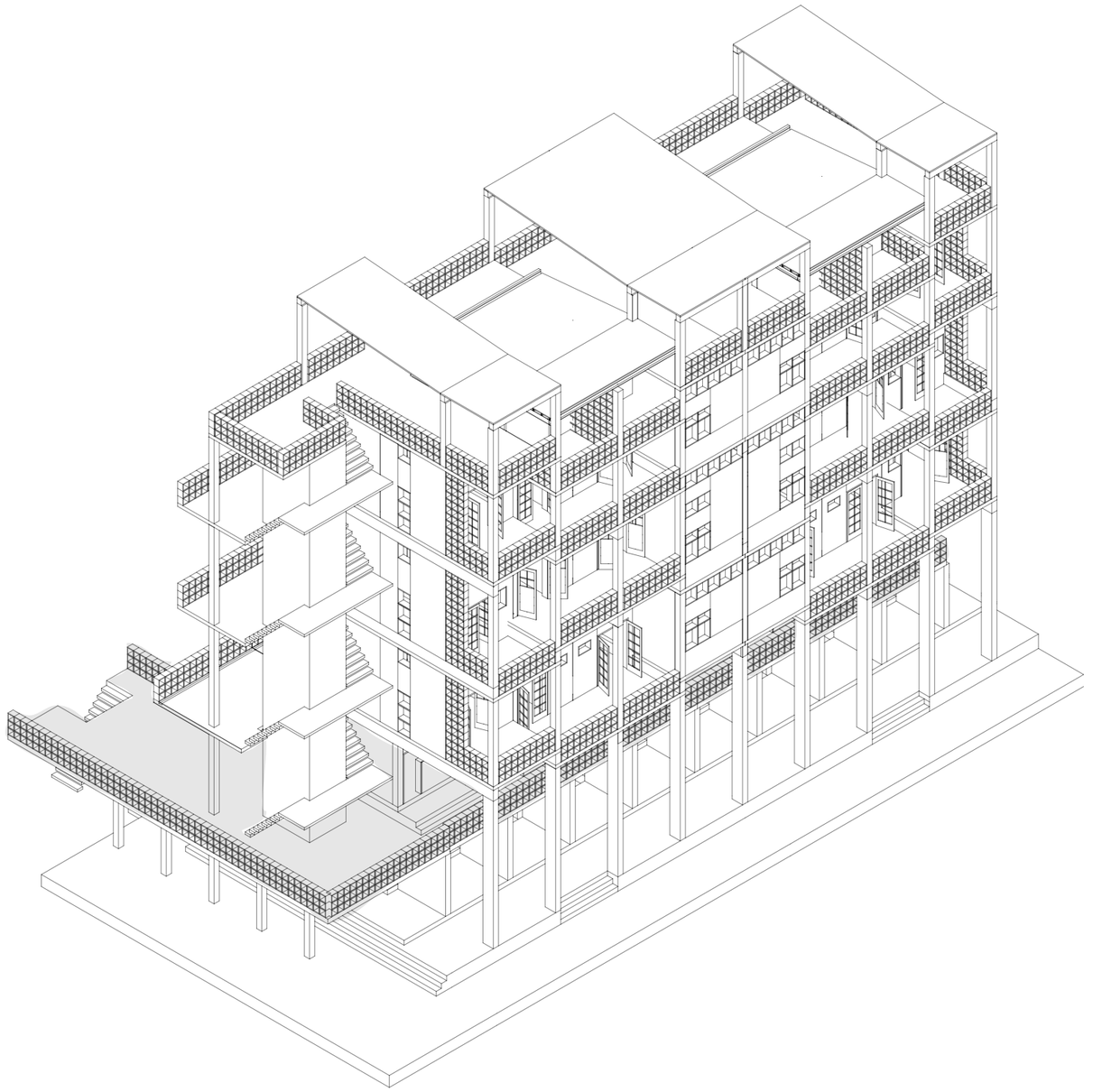
28m²





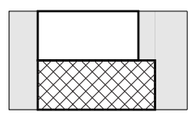
ground floor_variation 3_EWS (ownership)



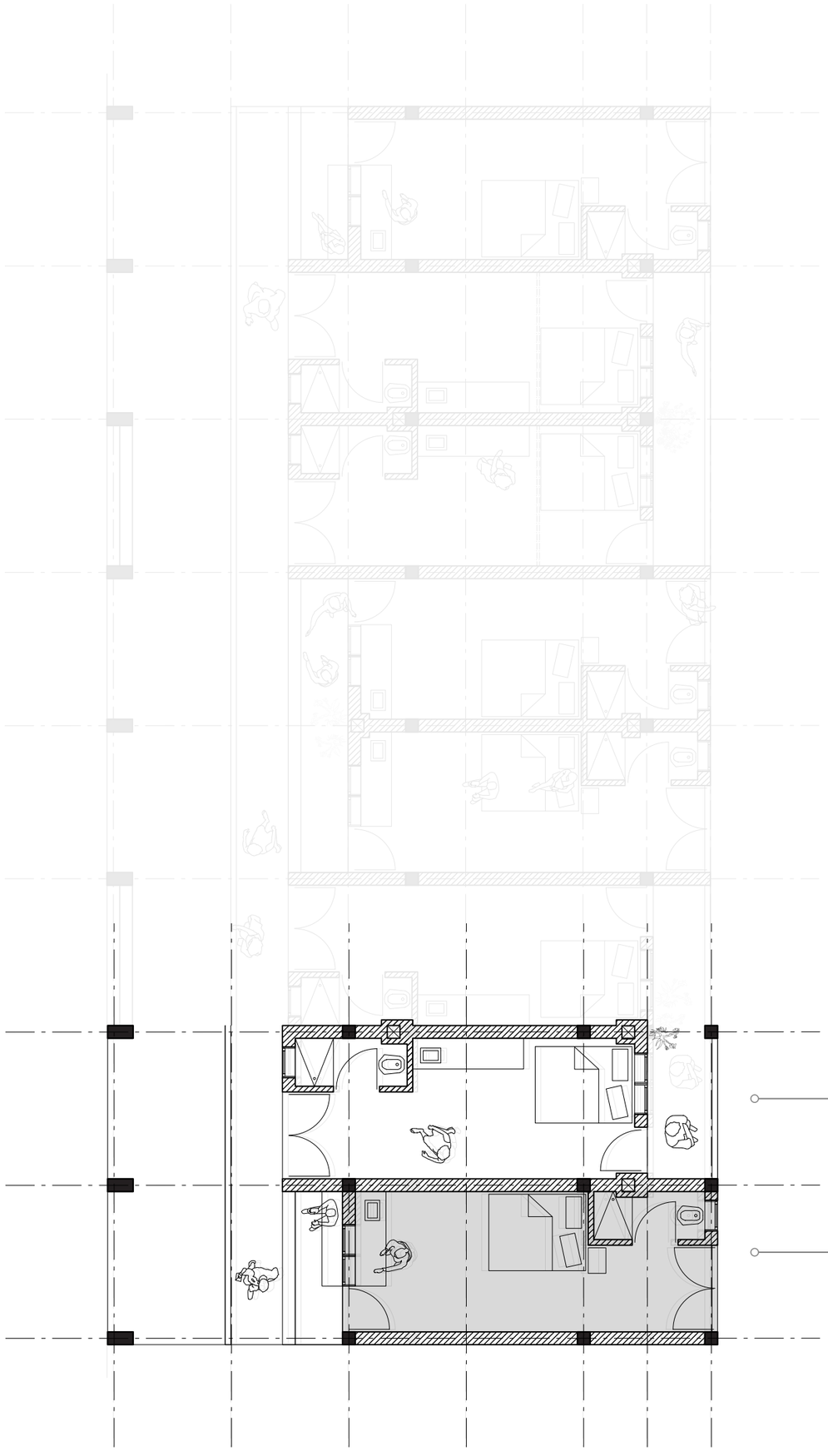


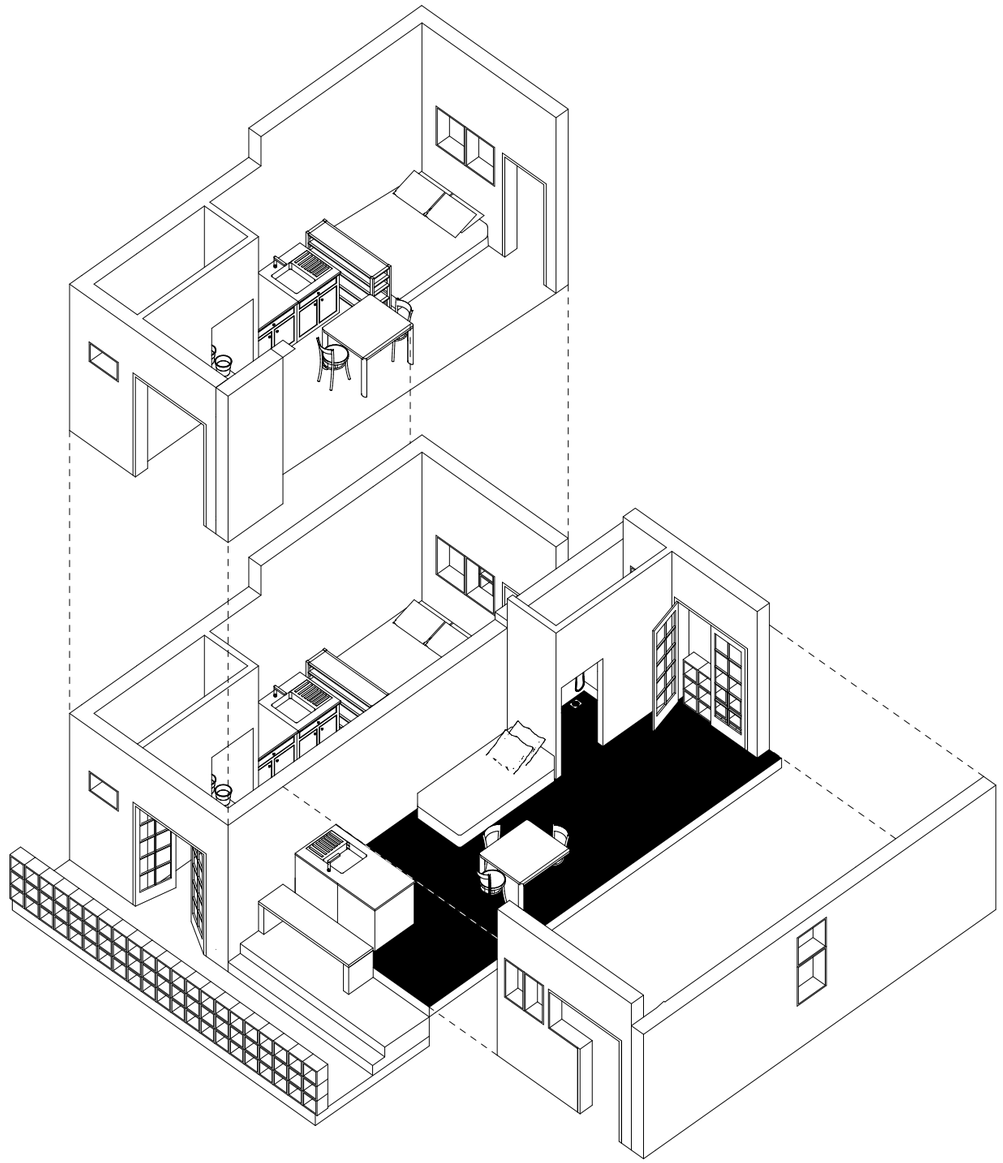
11.5m²

14m²



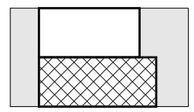
first_rentable units



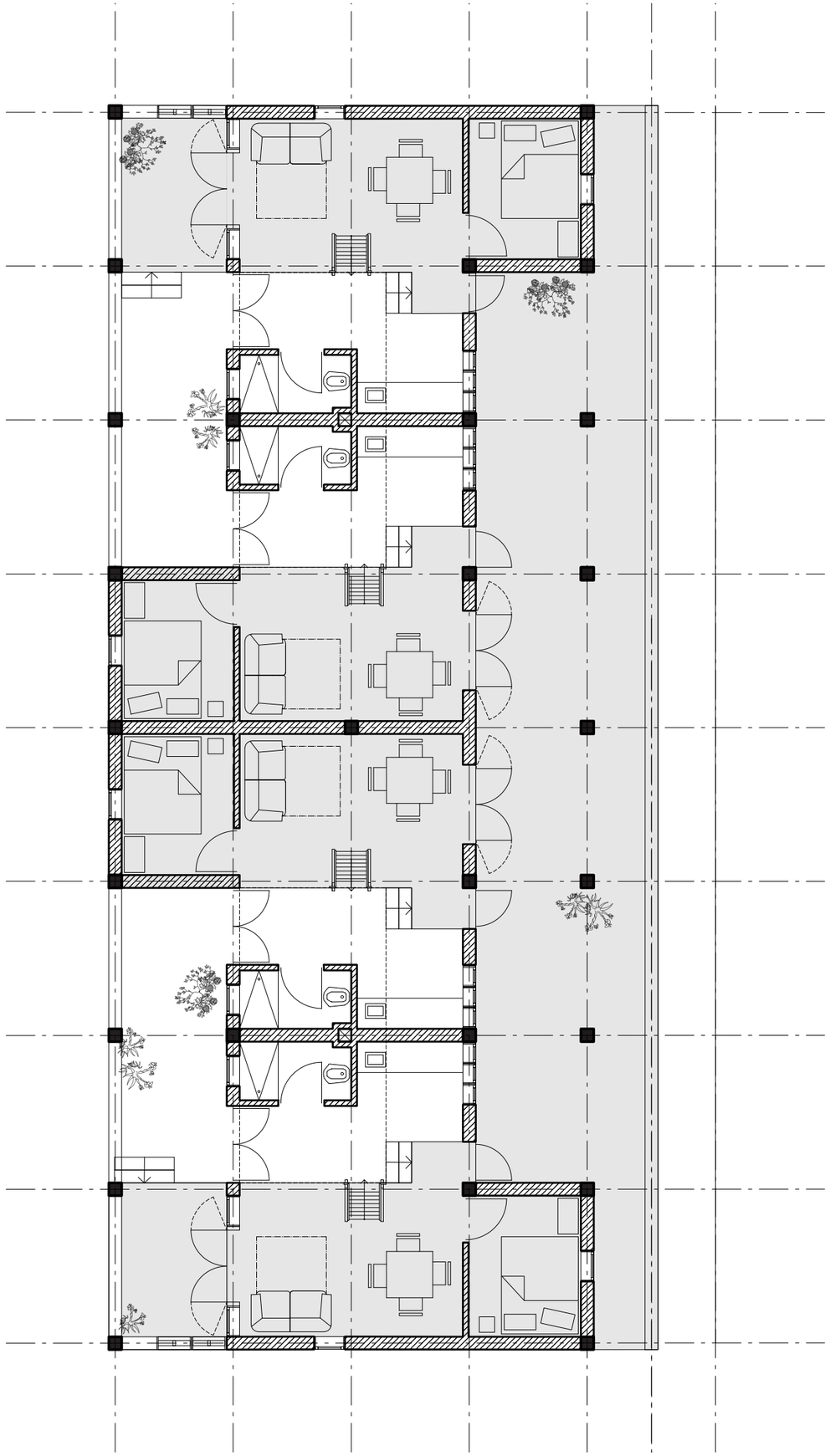


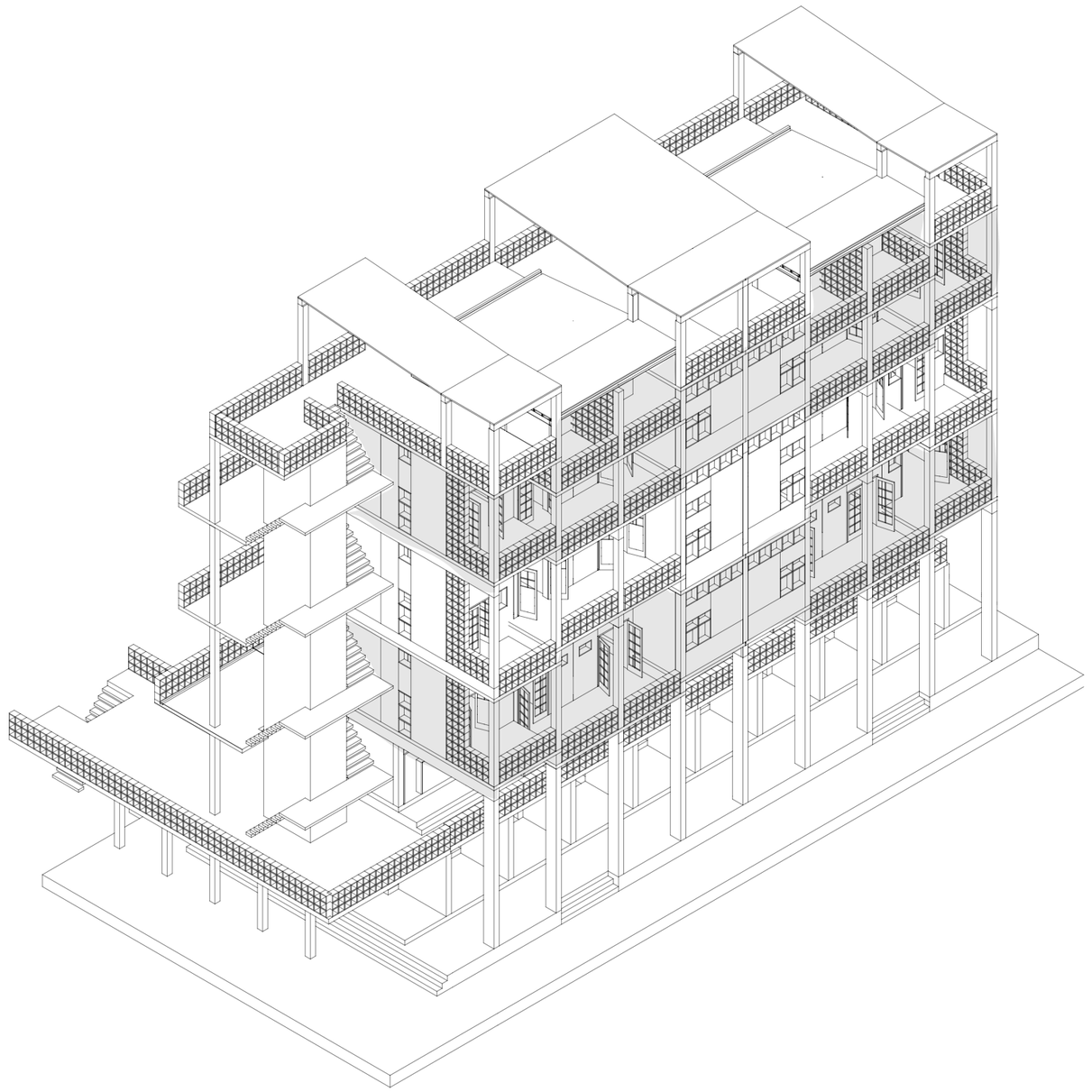
11.5m²

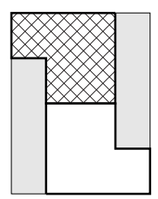
14m²



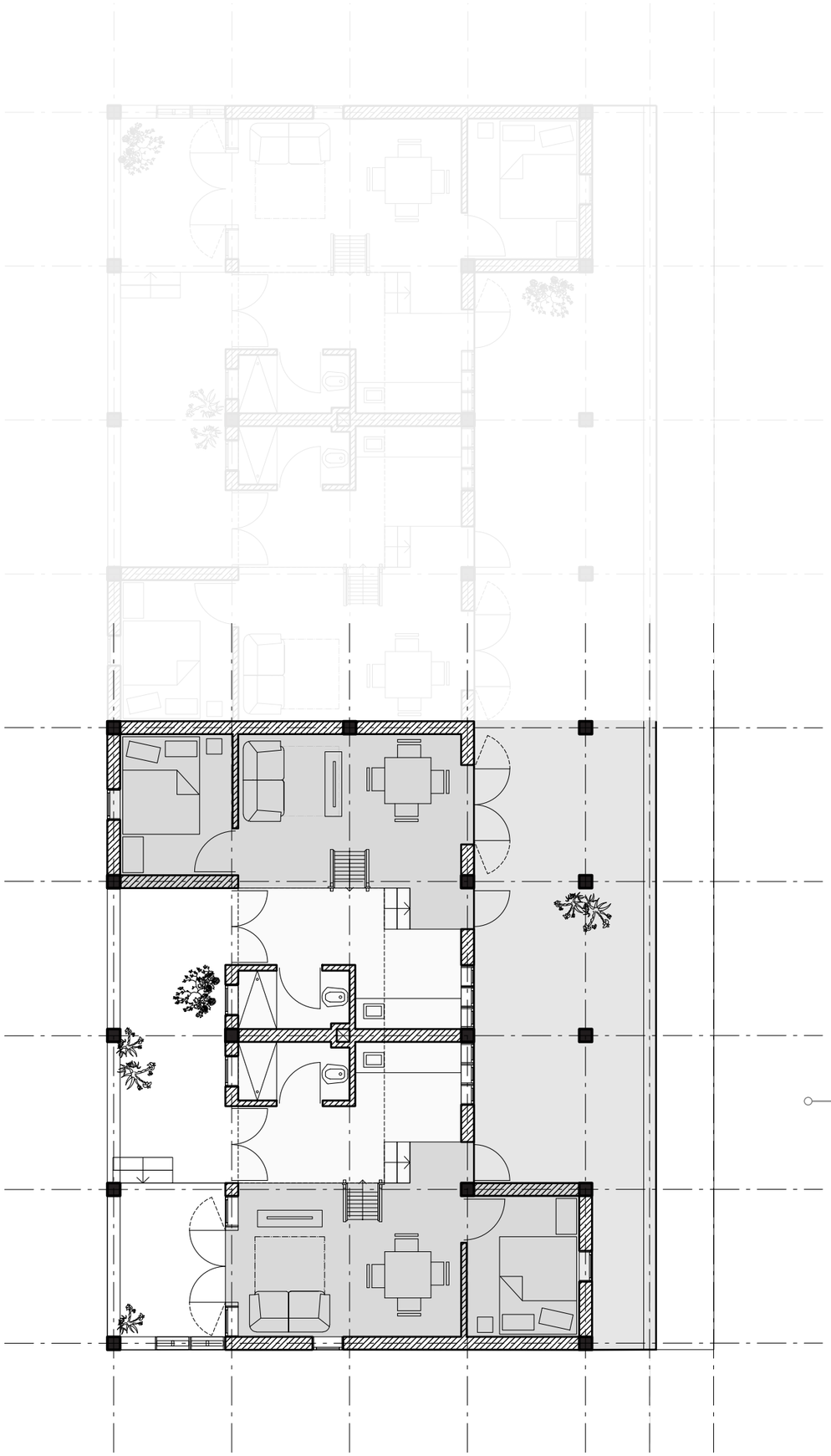
first_rentable units



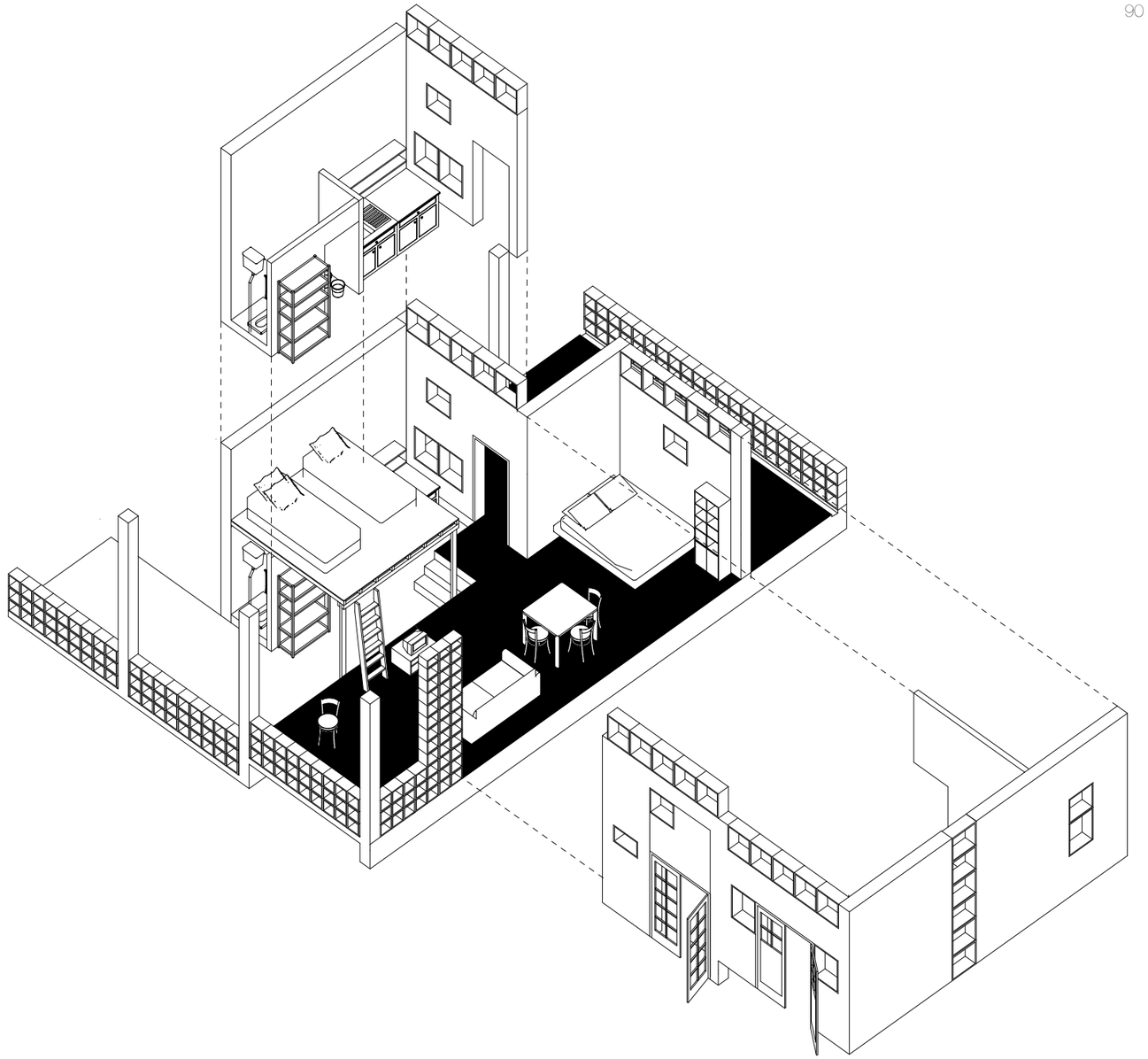


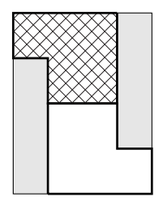


second & fourth floor_EWS

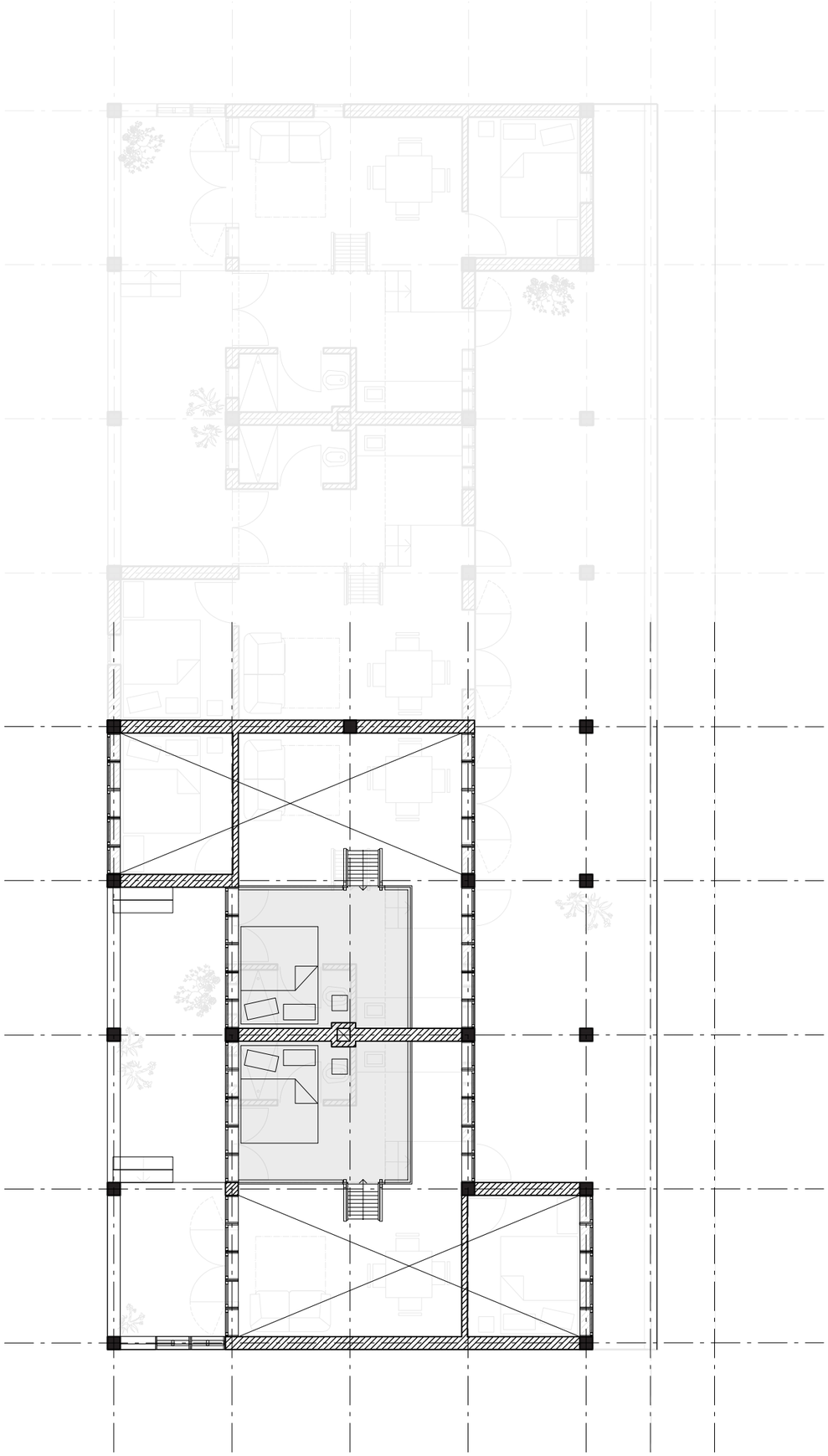


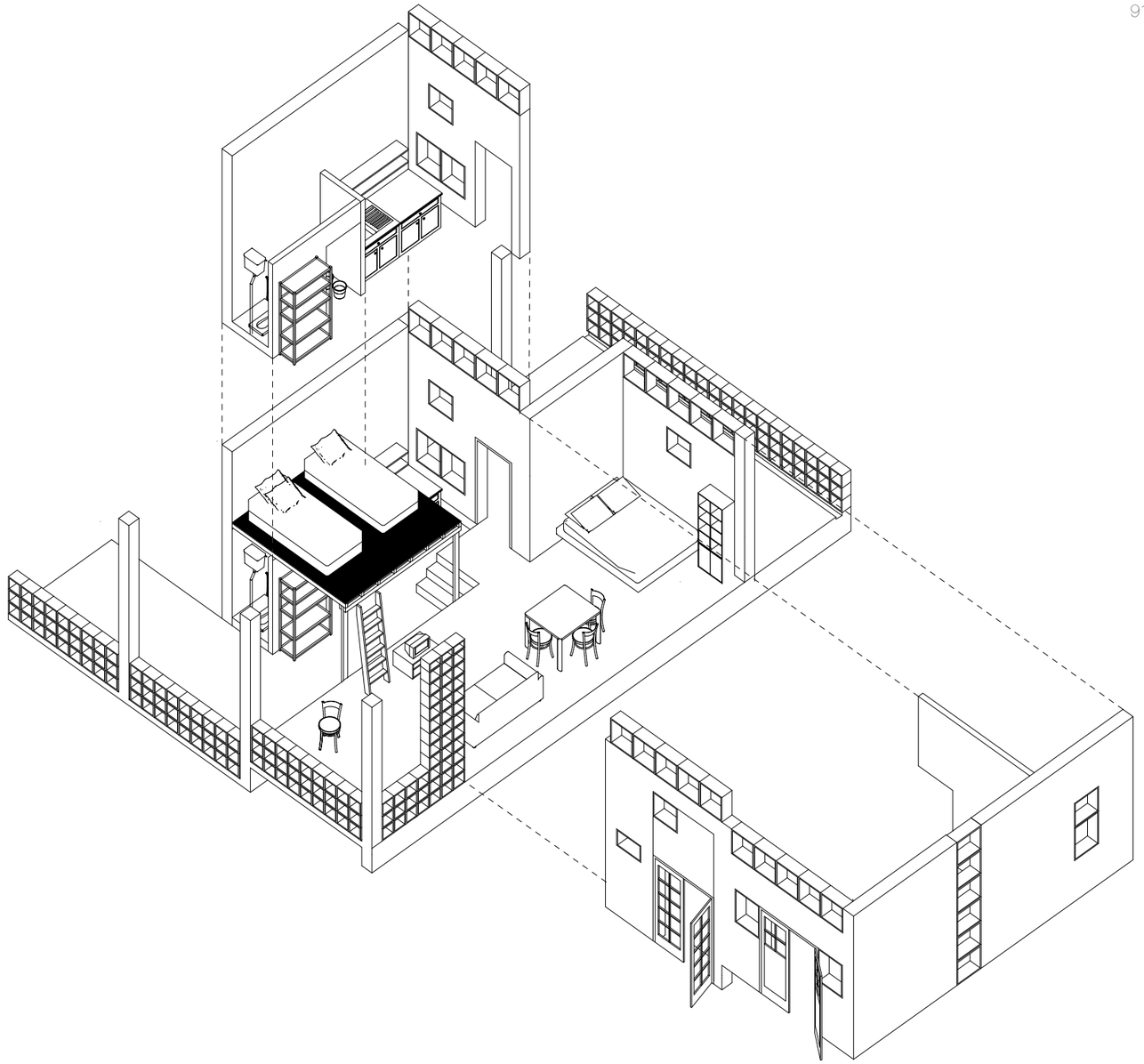
28m²

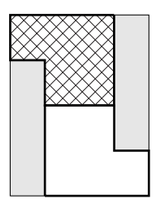




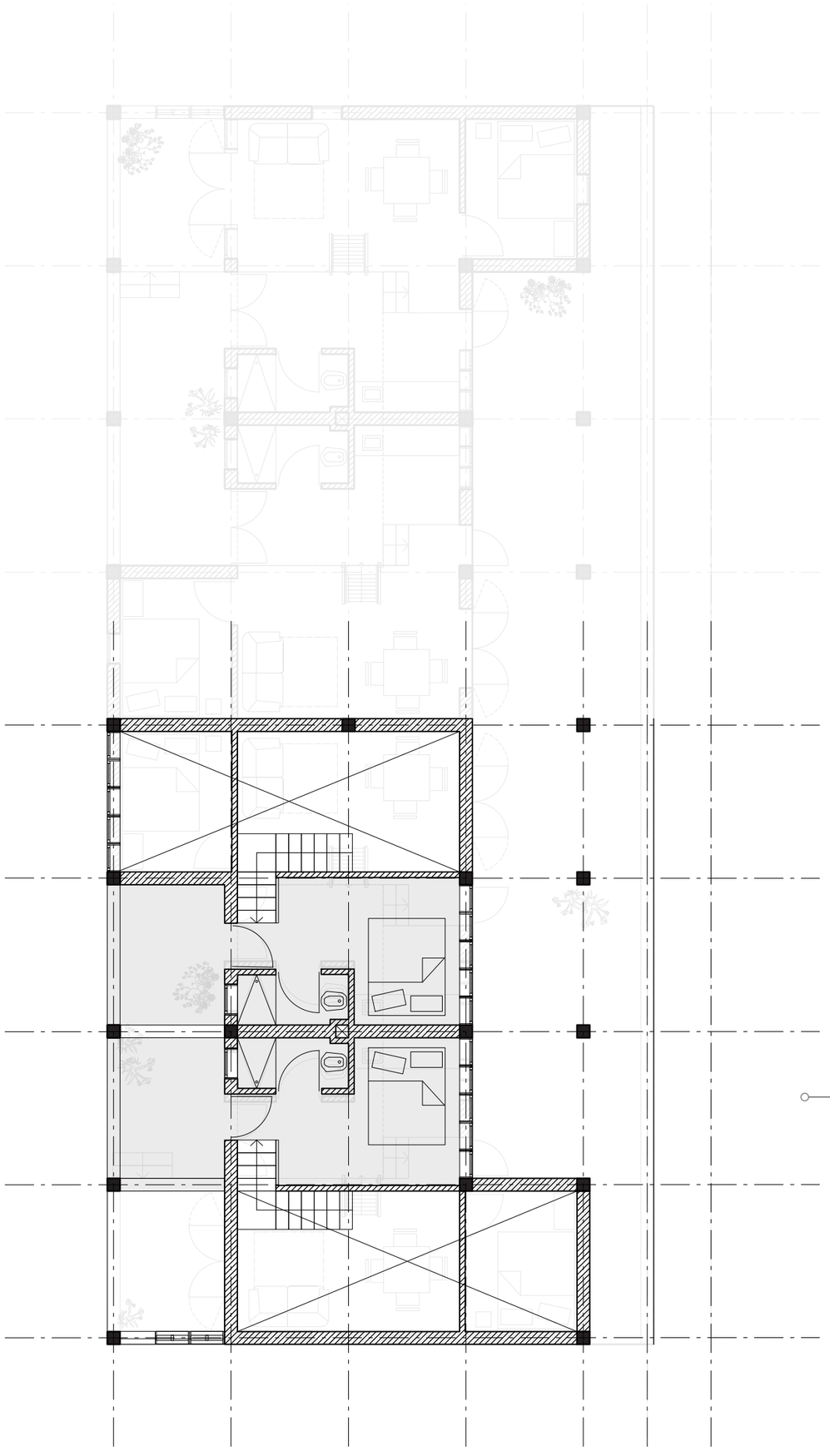
second & fourth floor_EWS

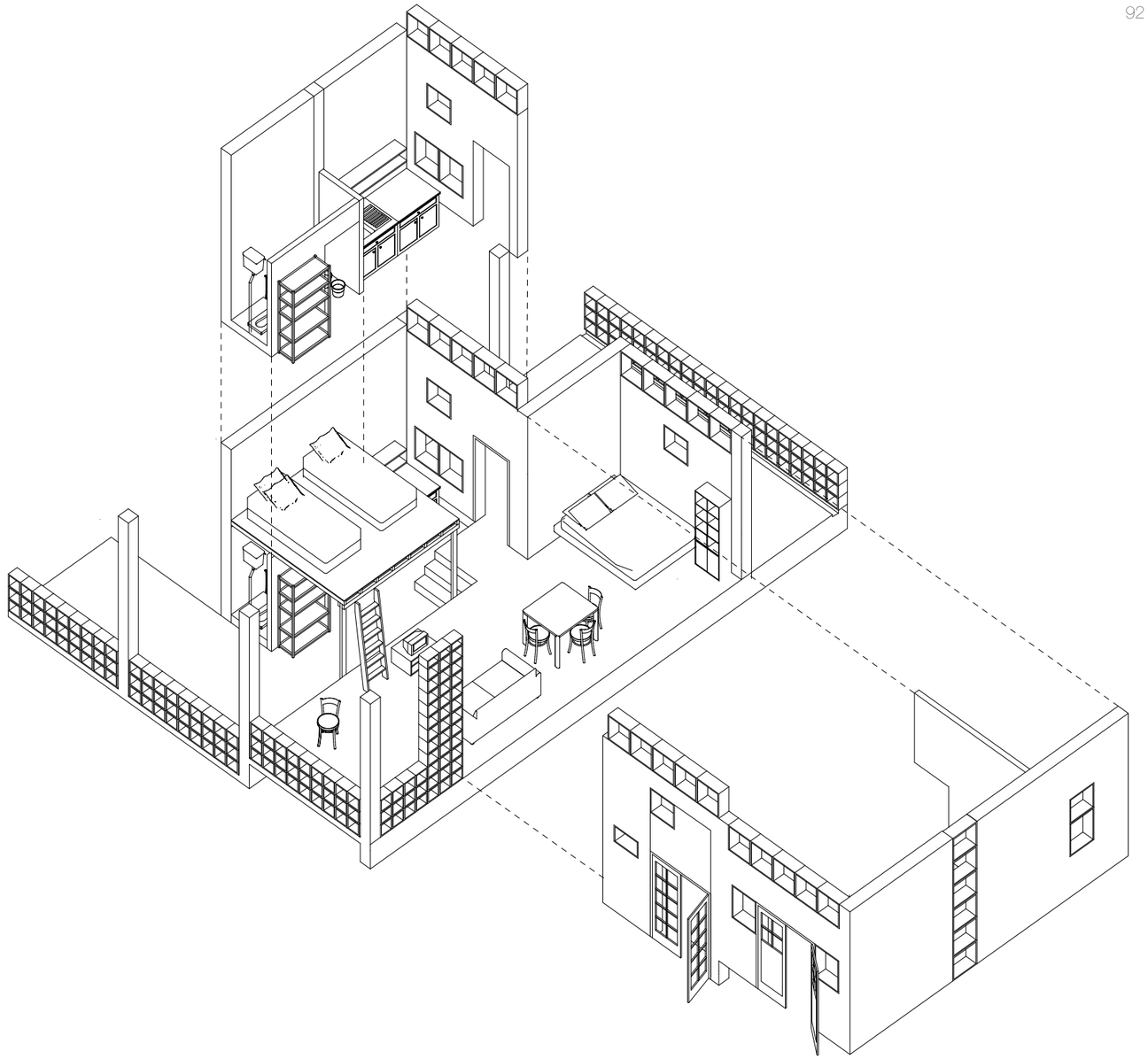




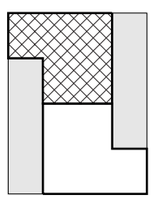


second & fourth floor_EWS

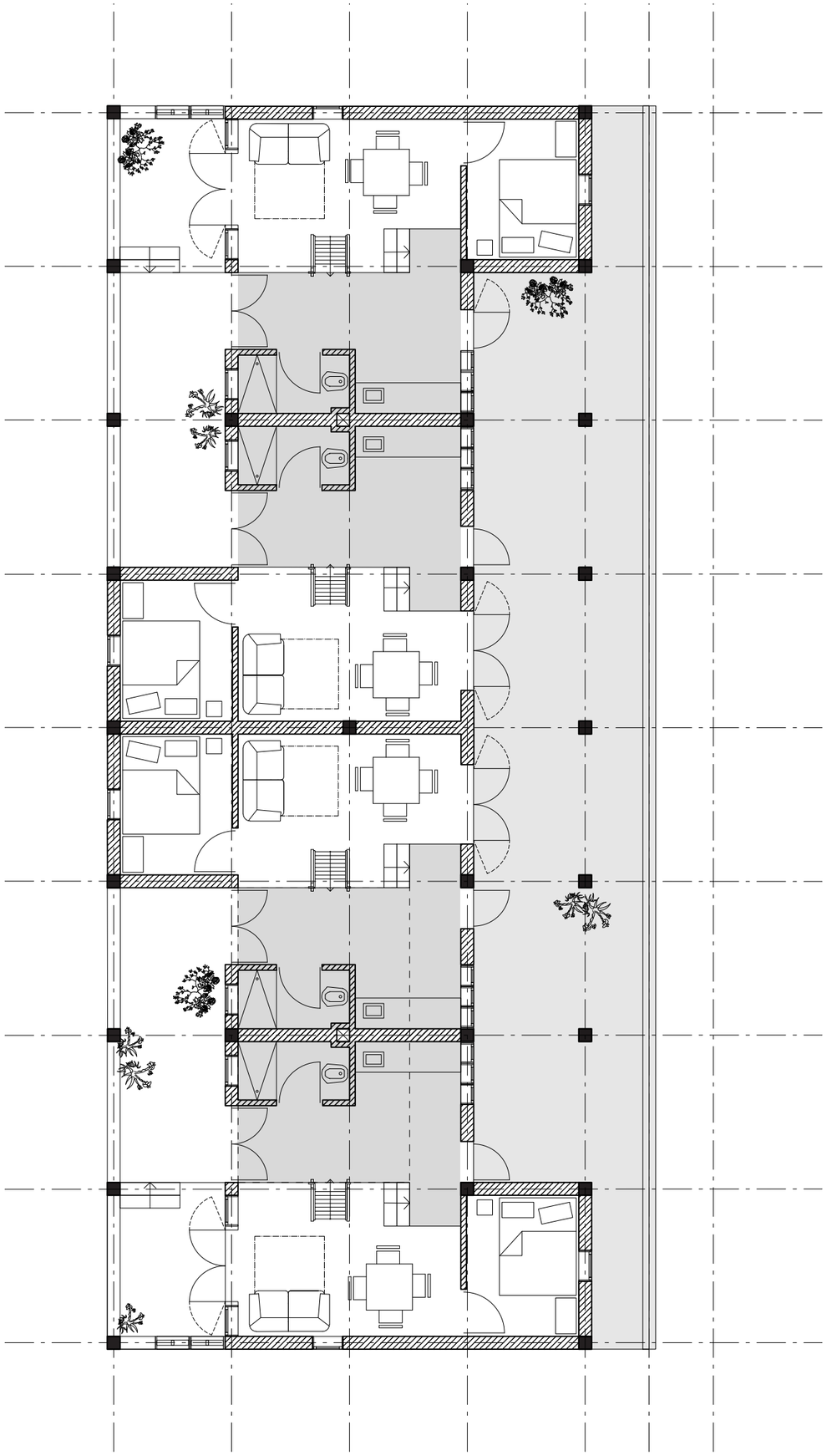


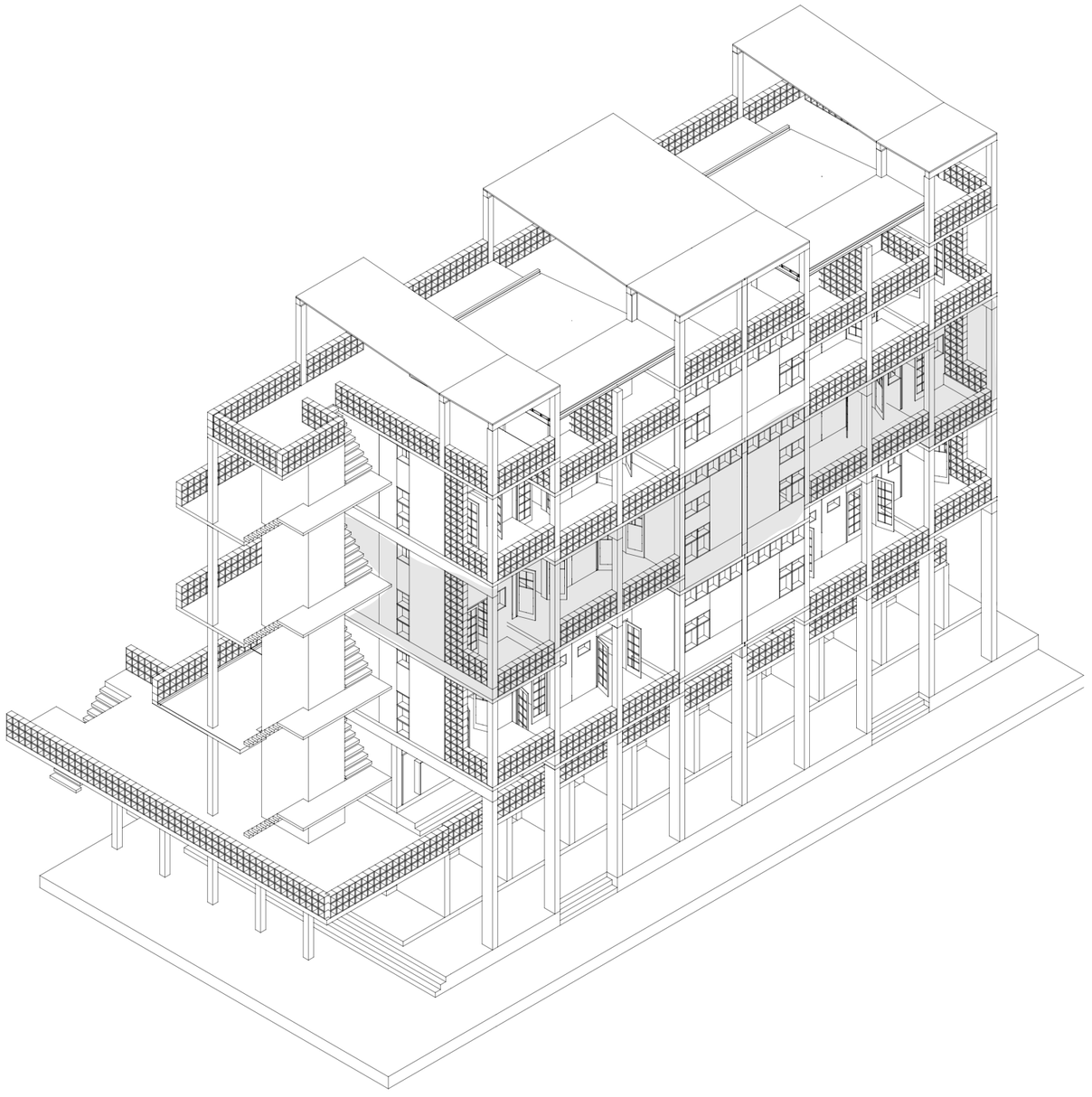


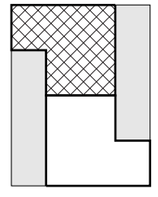
40m²



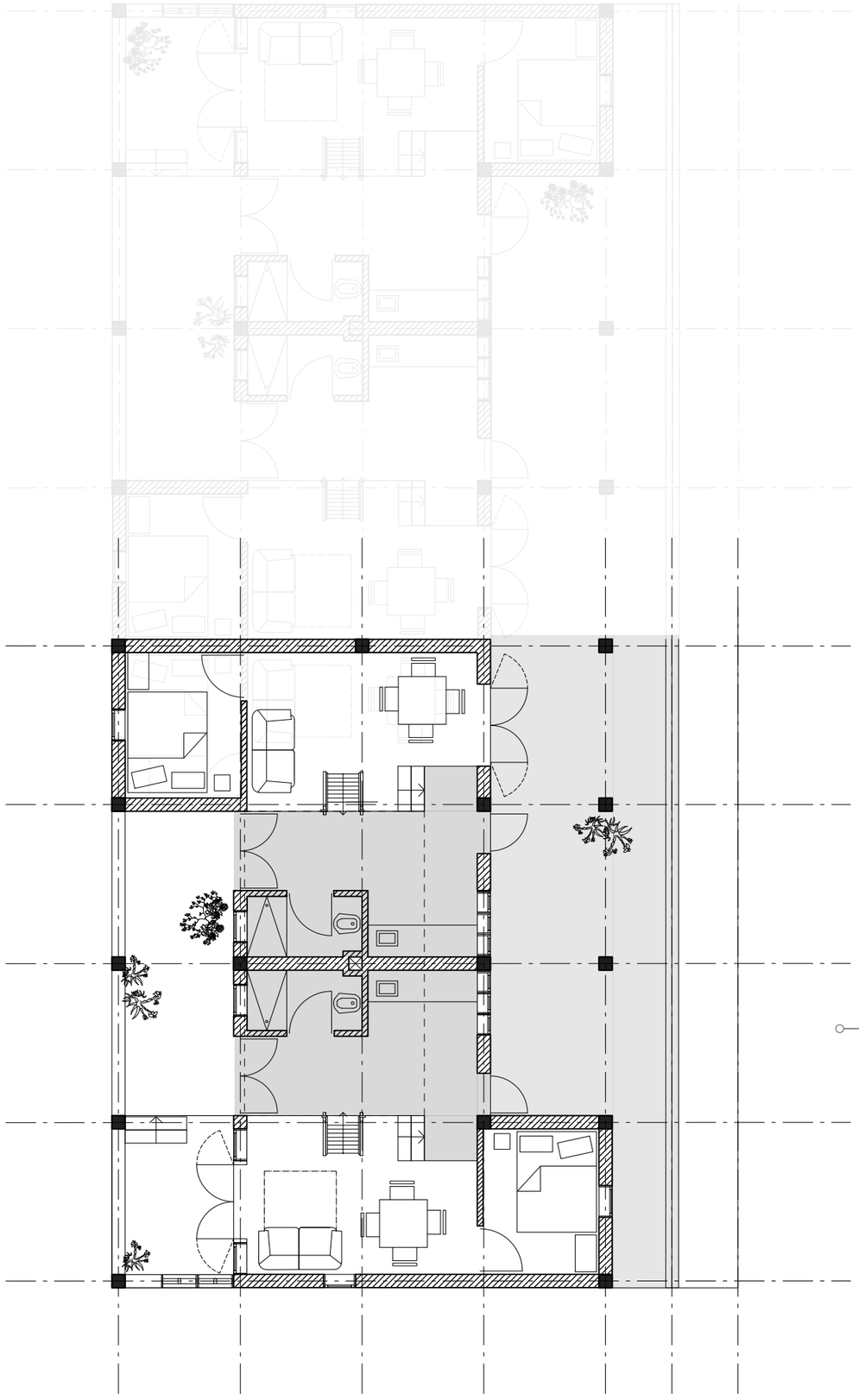
second & fourth floor_EWS

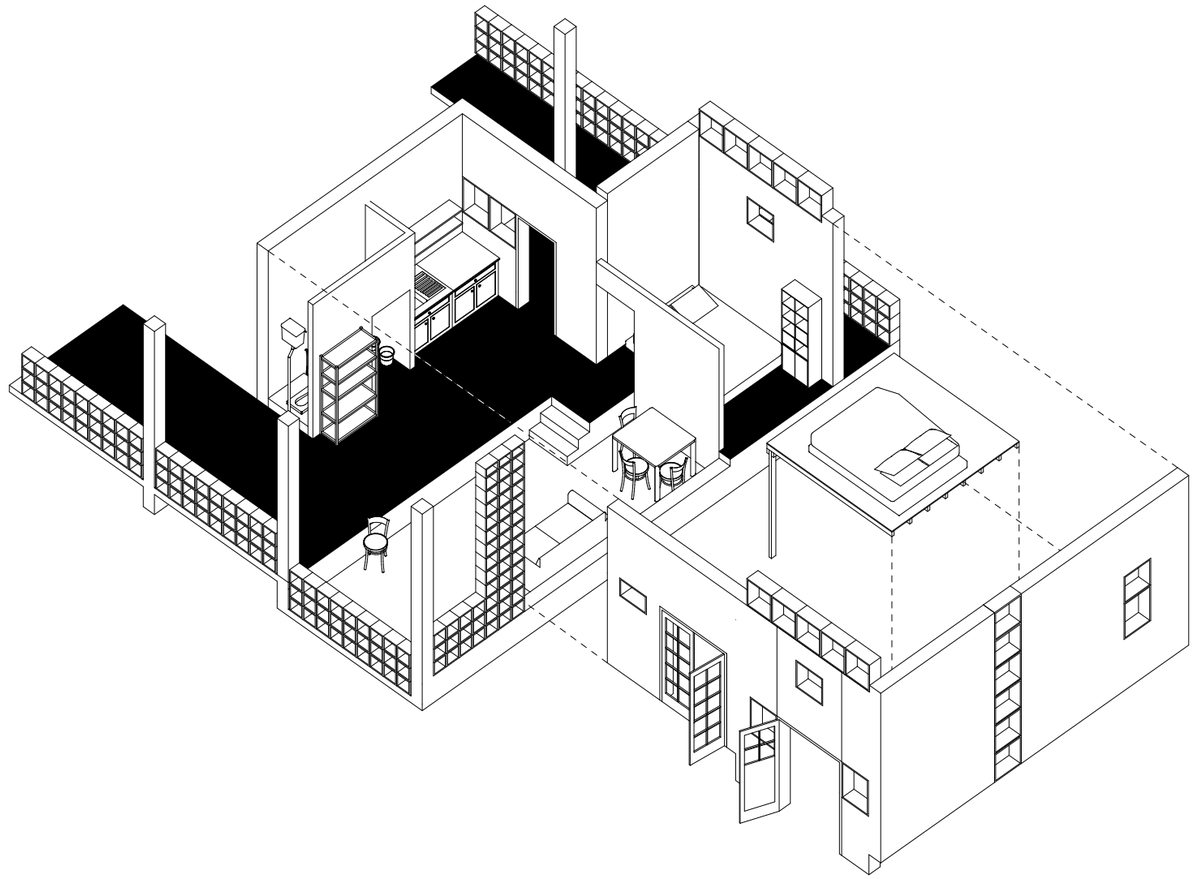




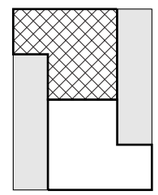


third and fifth floor_EWS

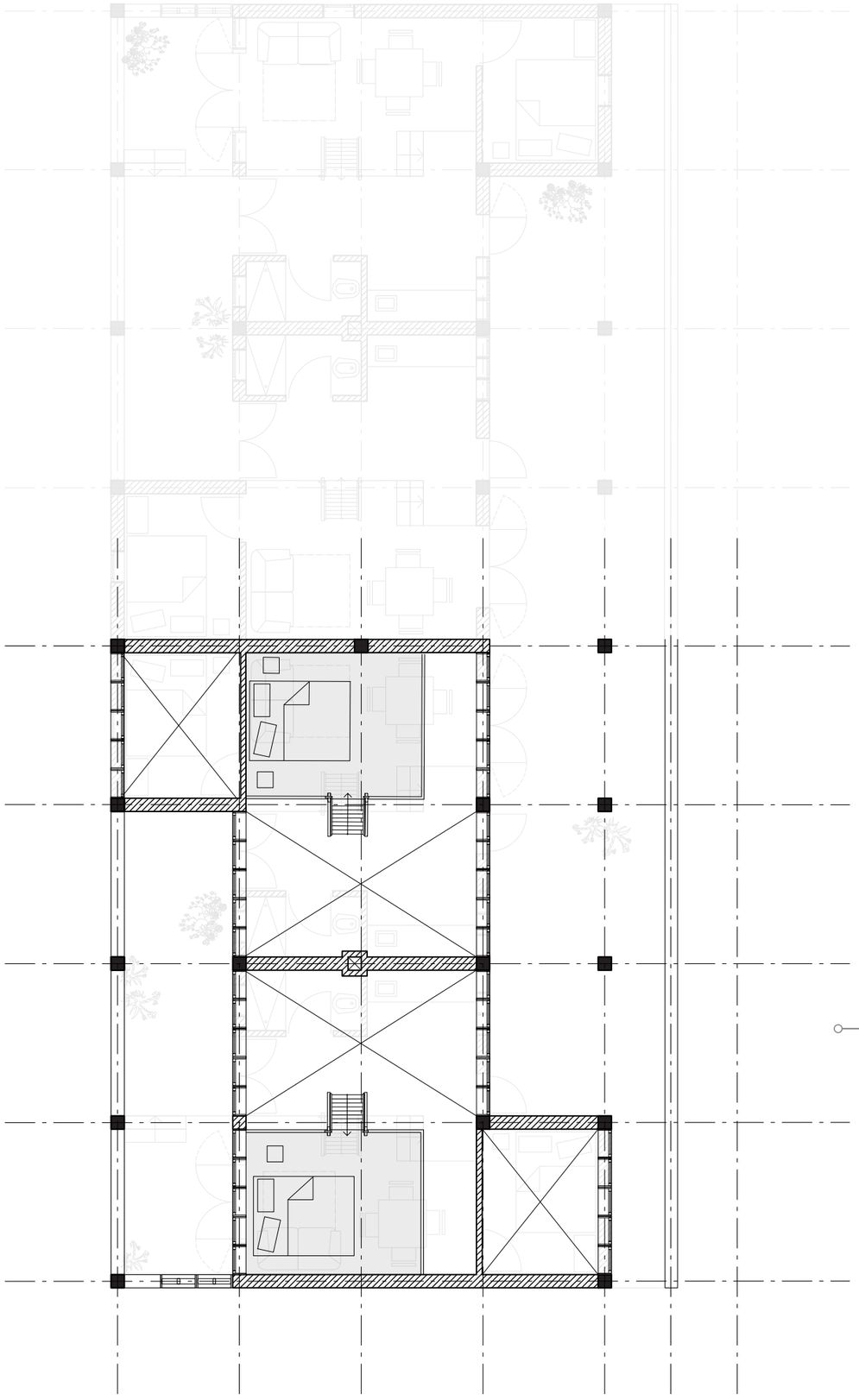


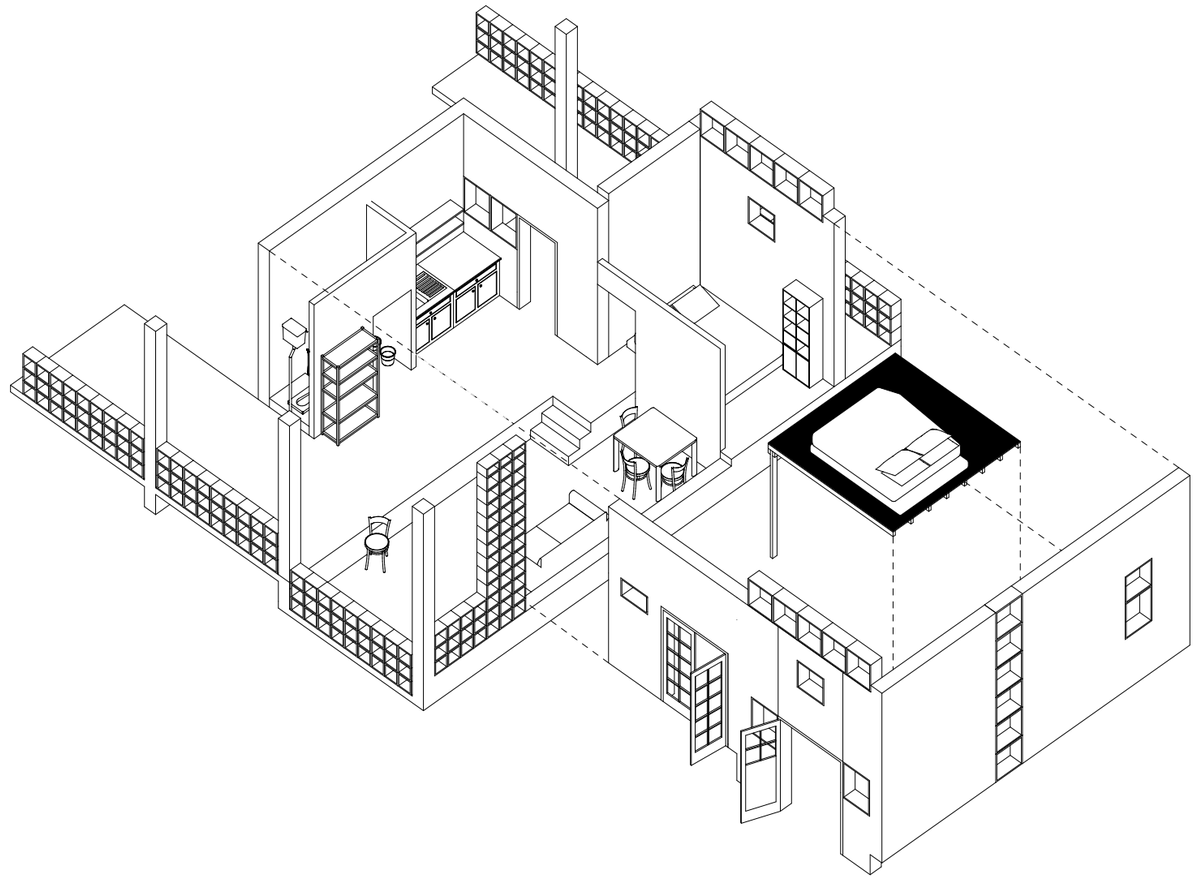


28m²

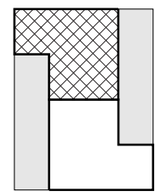


third and fifth floor_EWS

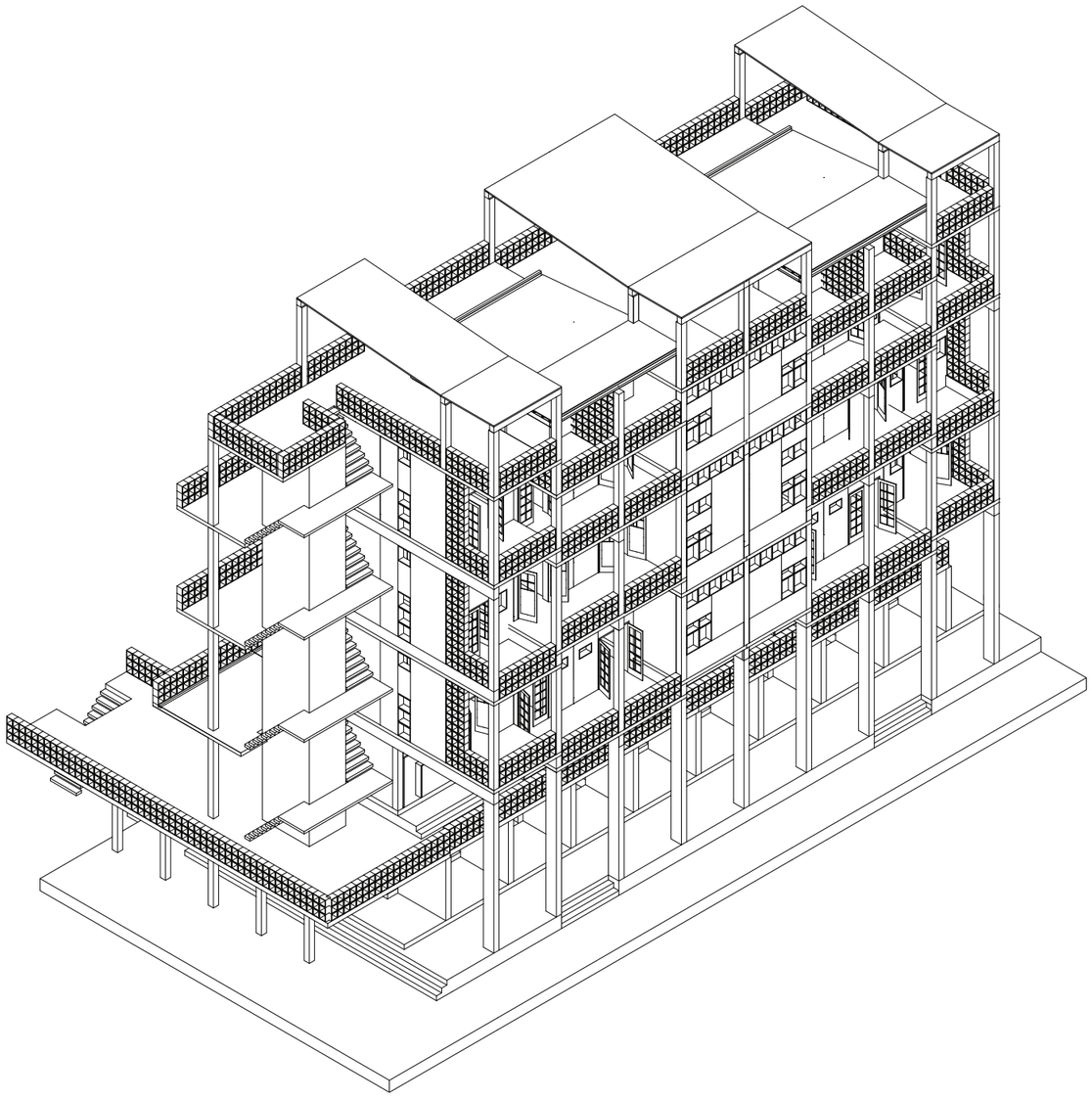


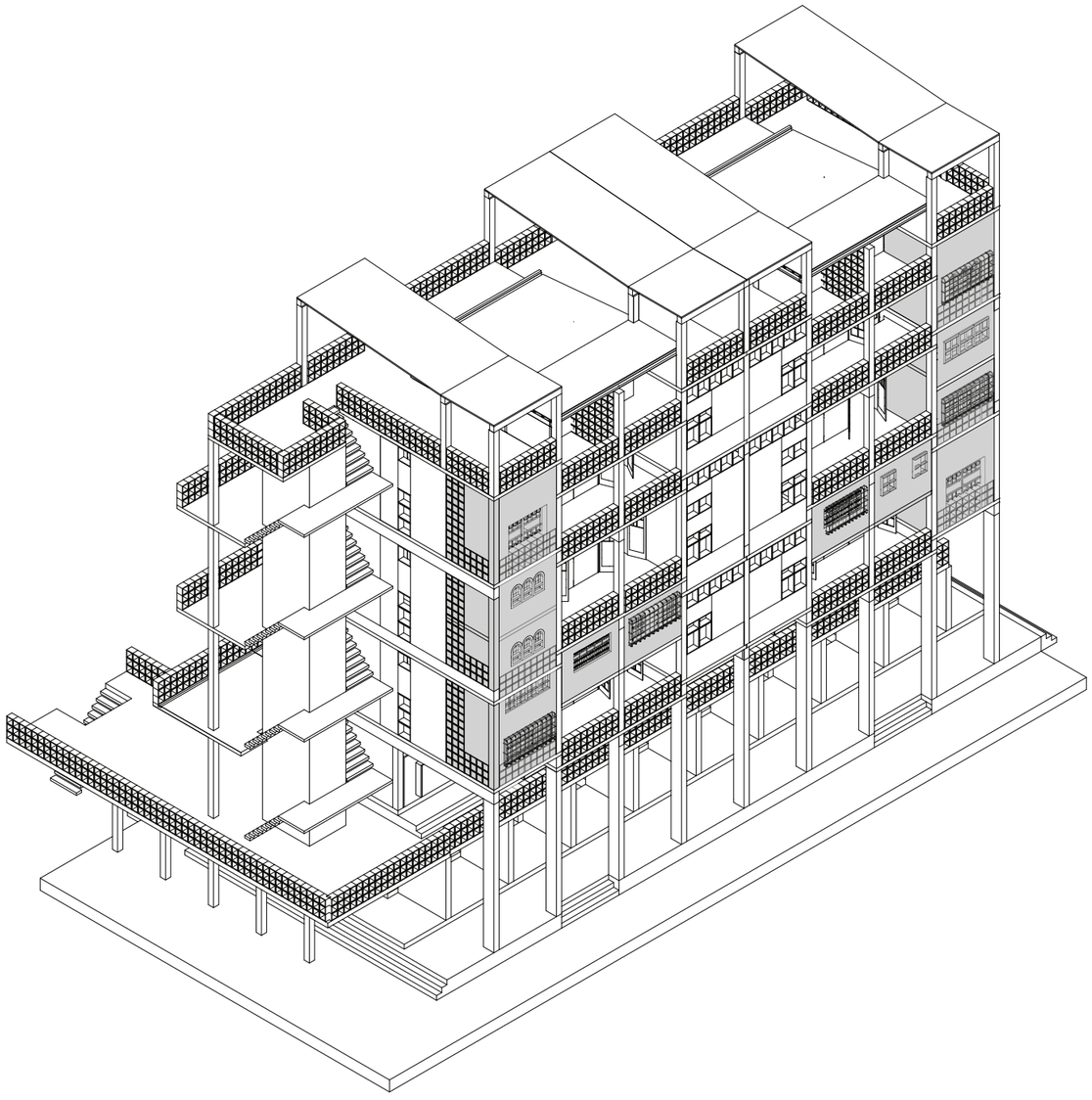


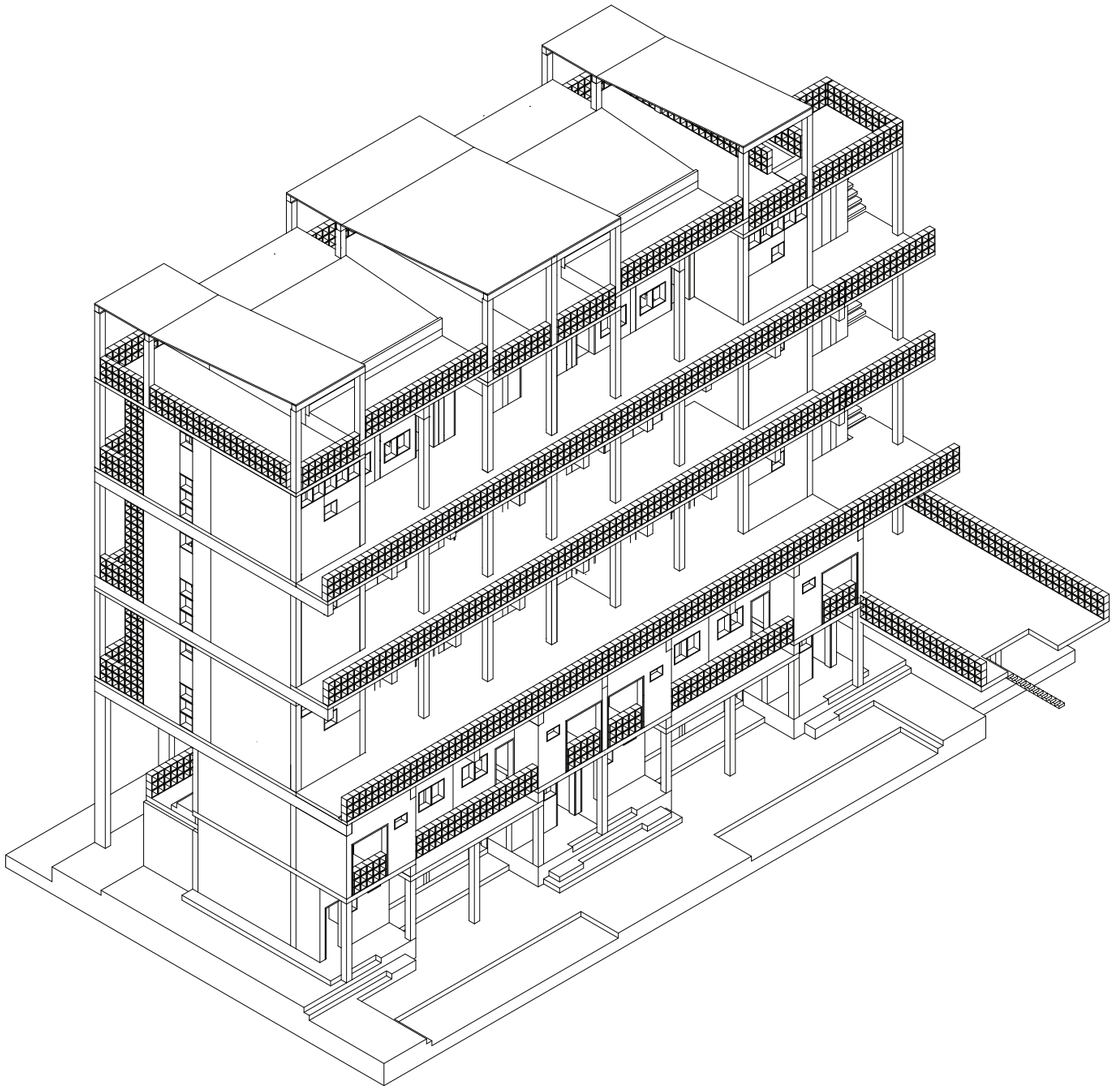
28m²

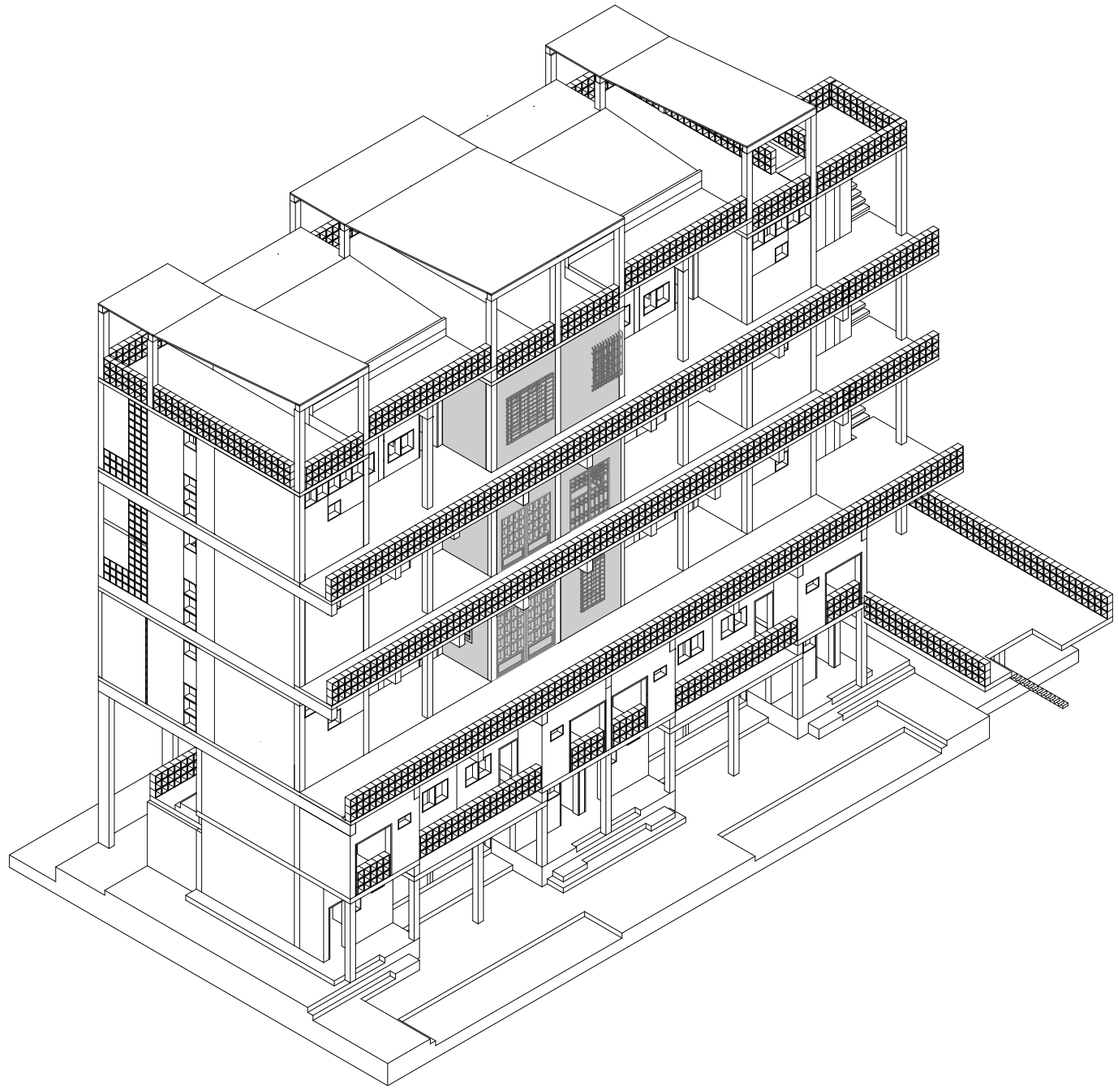


third and fifth floor_EWS





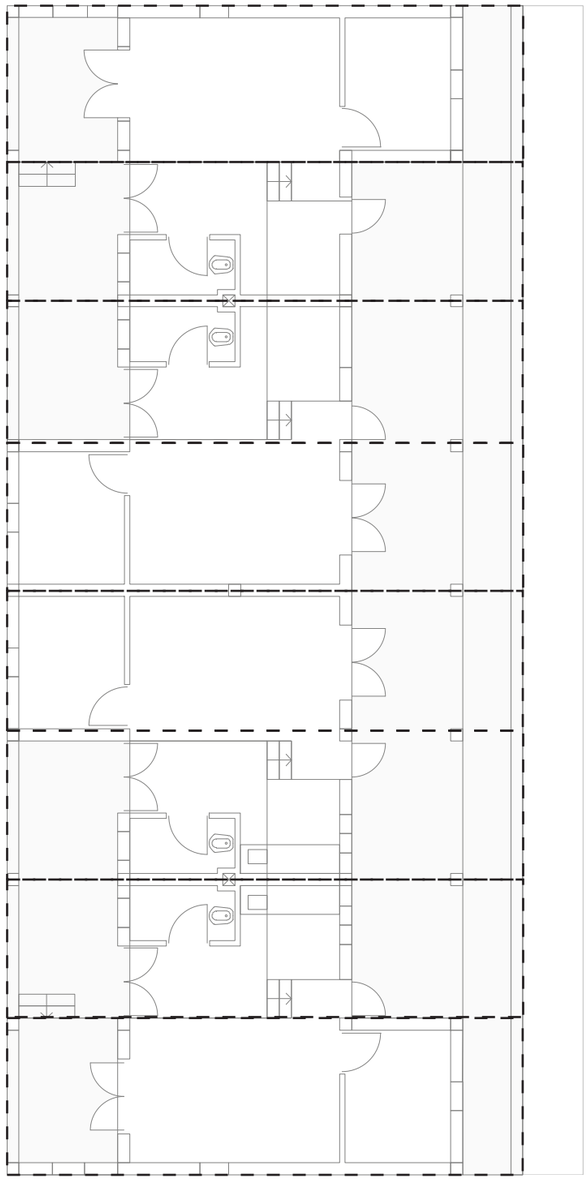


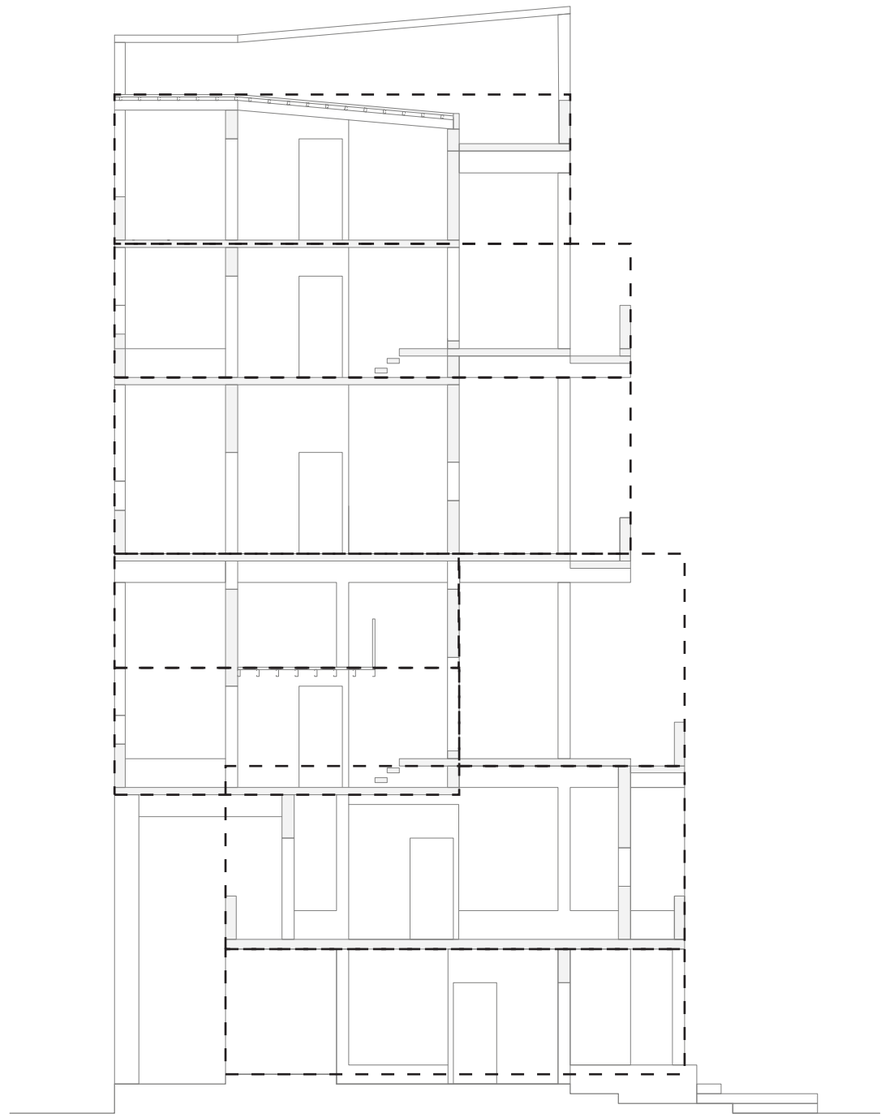


public domestic gallery

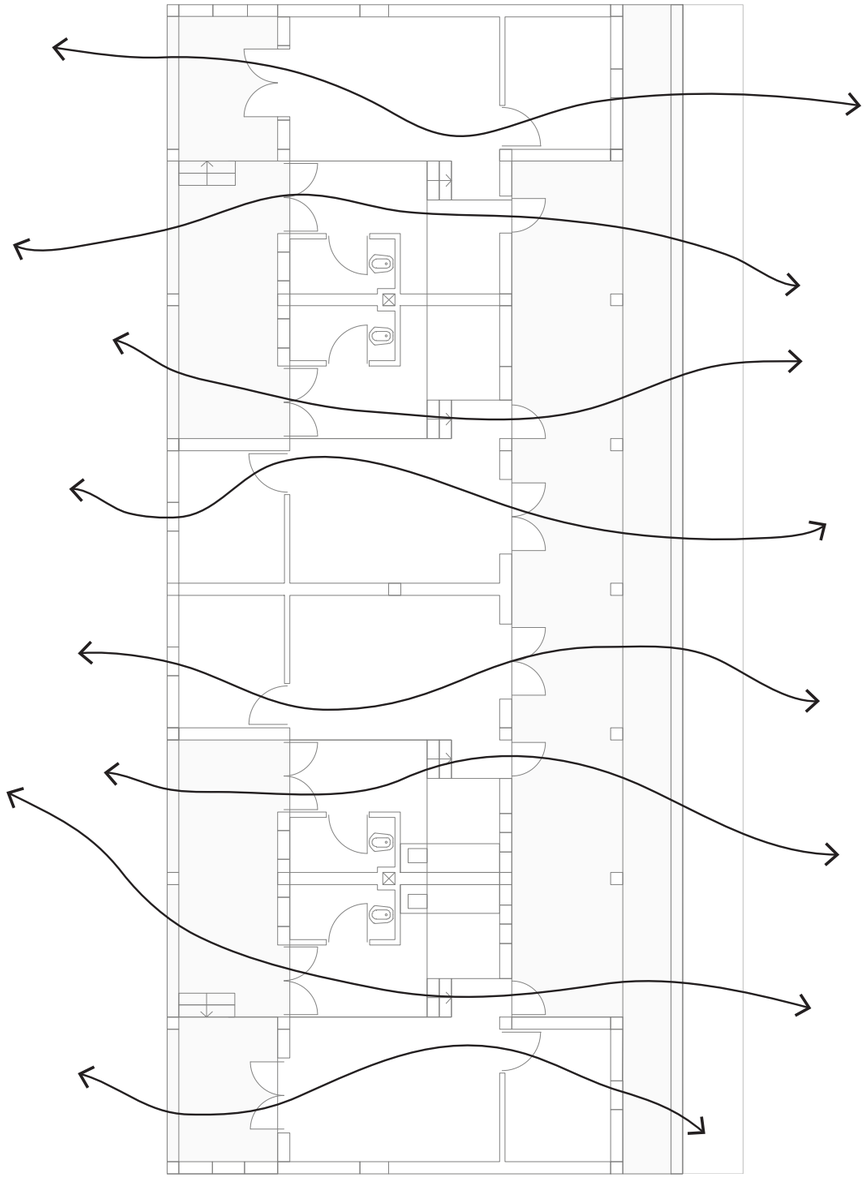
public domestic gallery

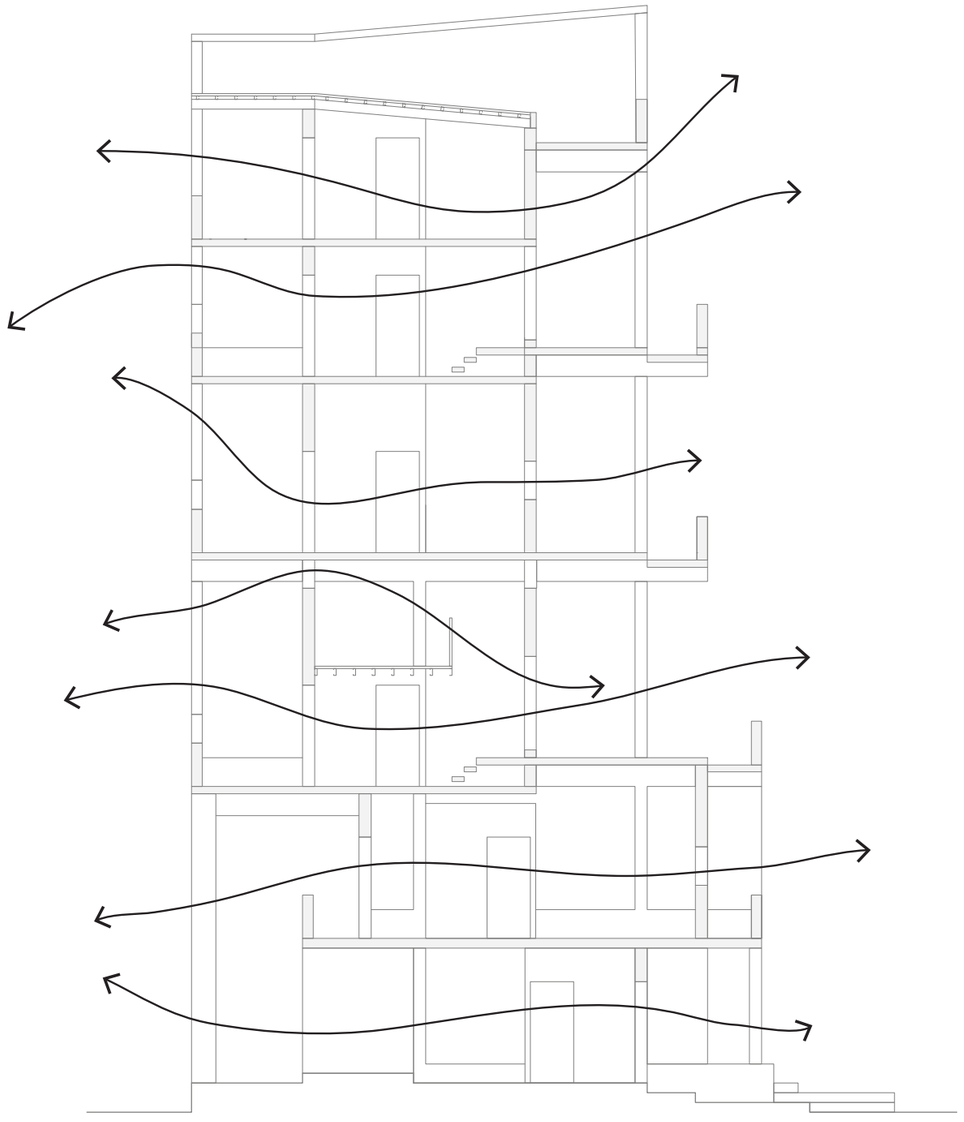
building technology



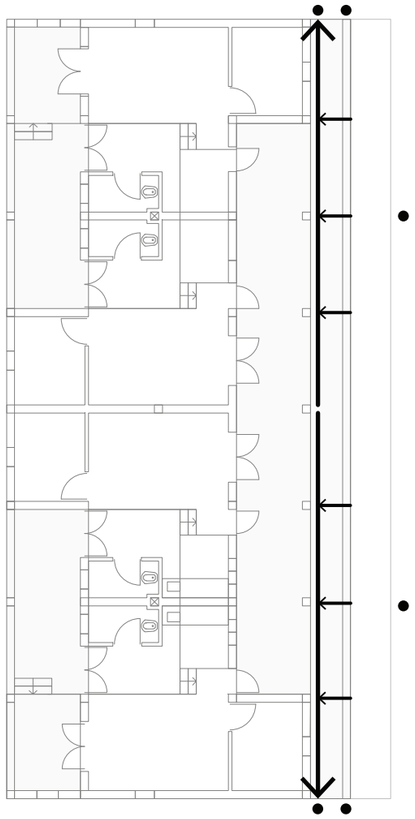


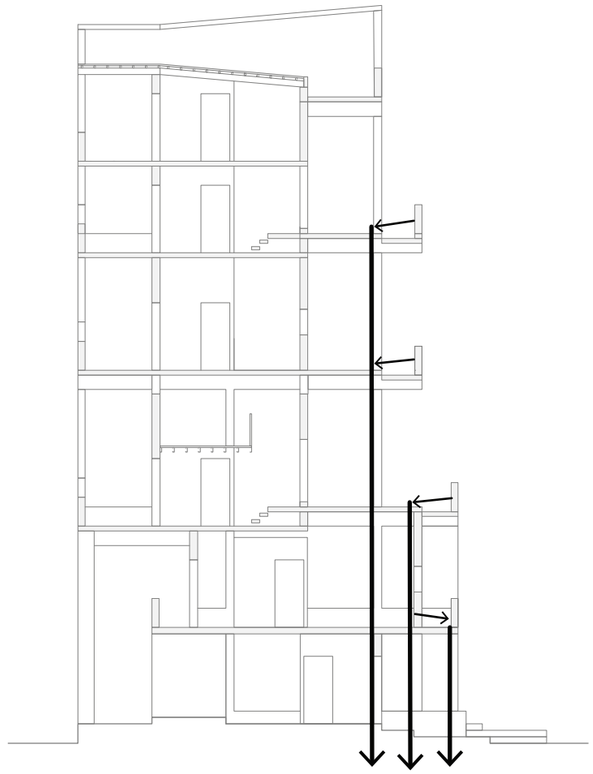
cross-ventilation

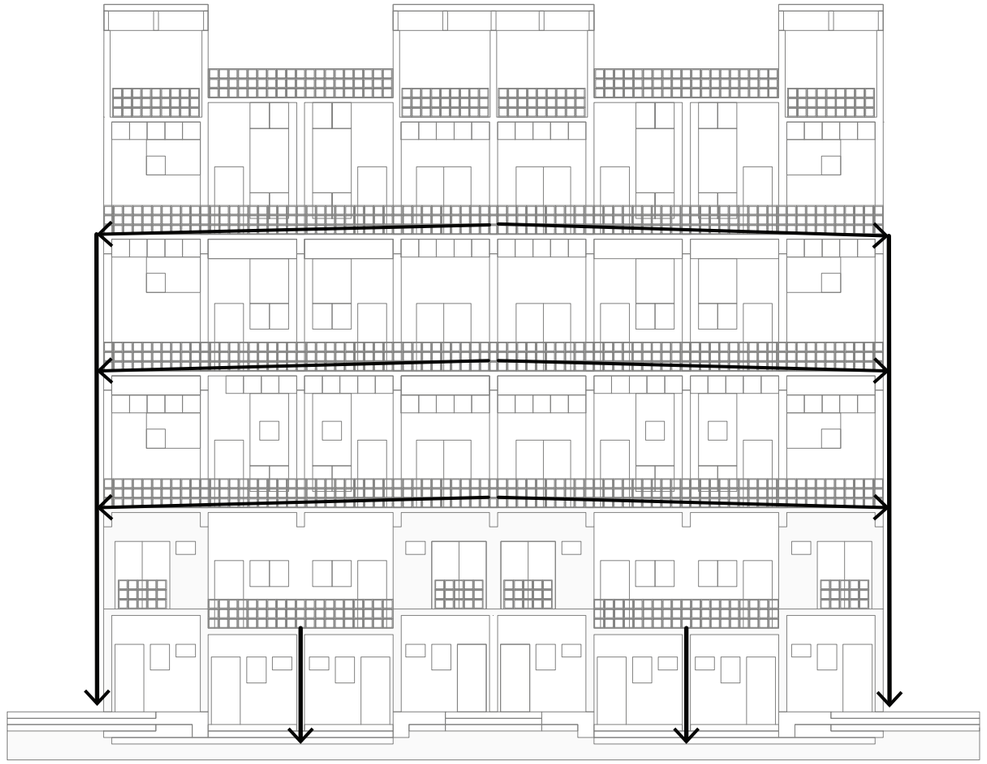




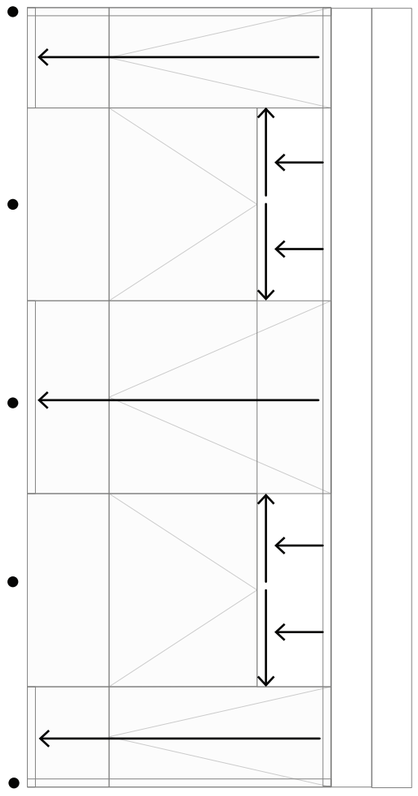
cross-ventilation

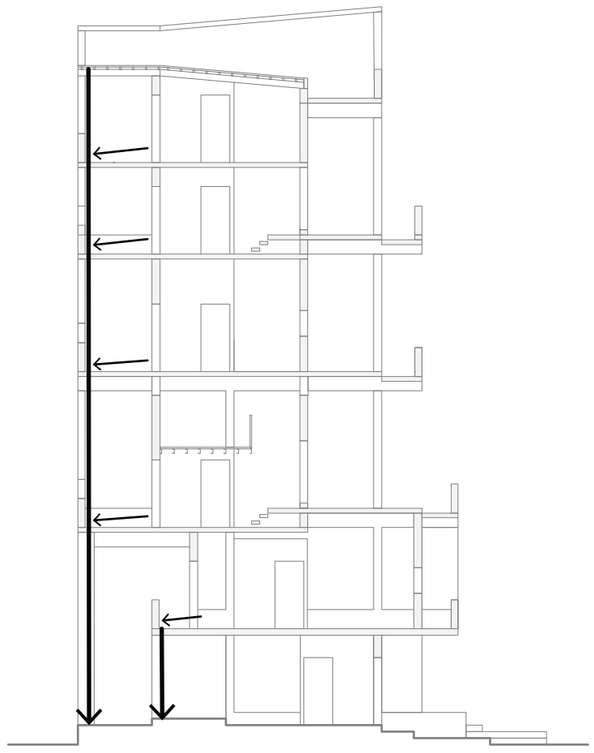


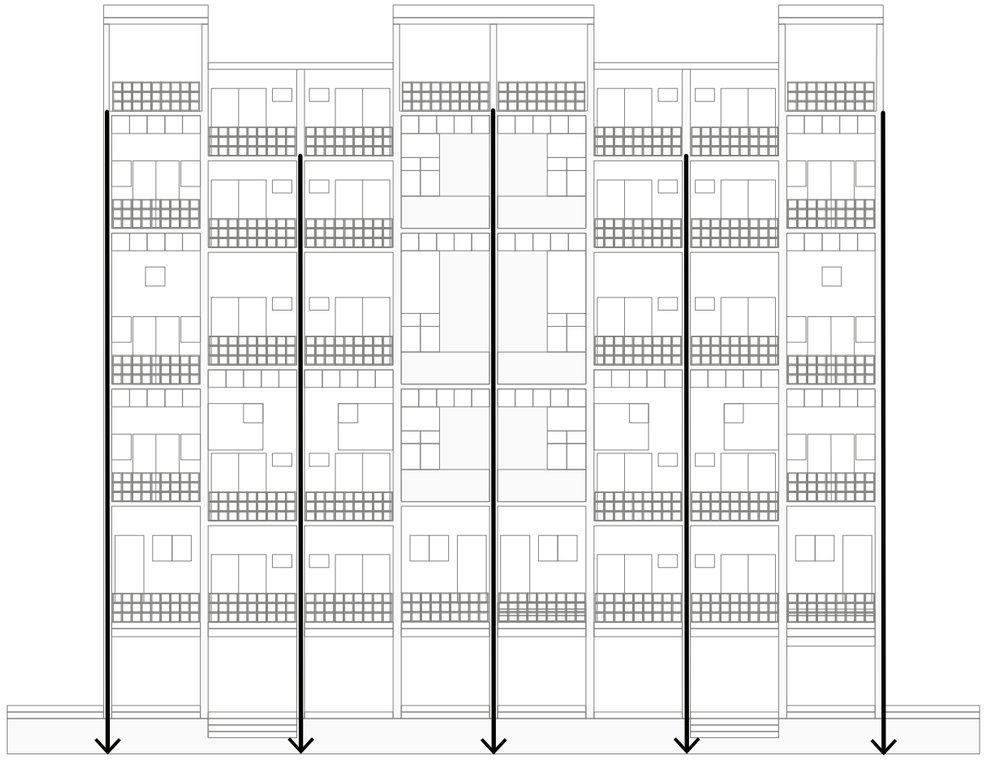




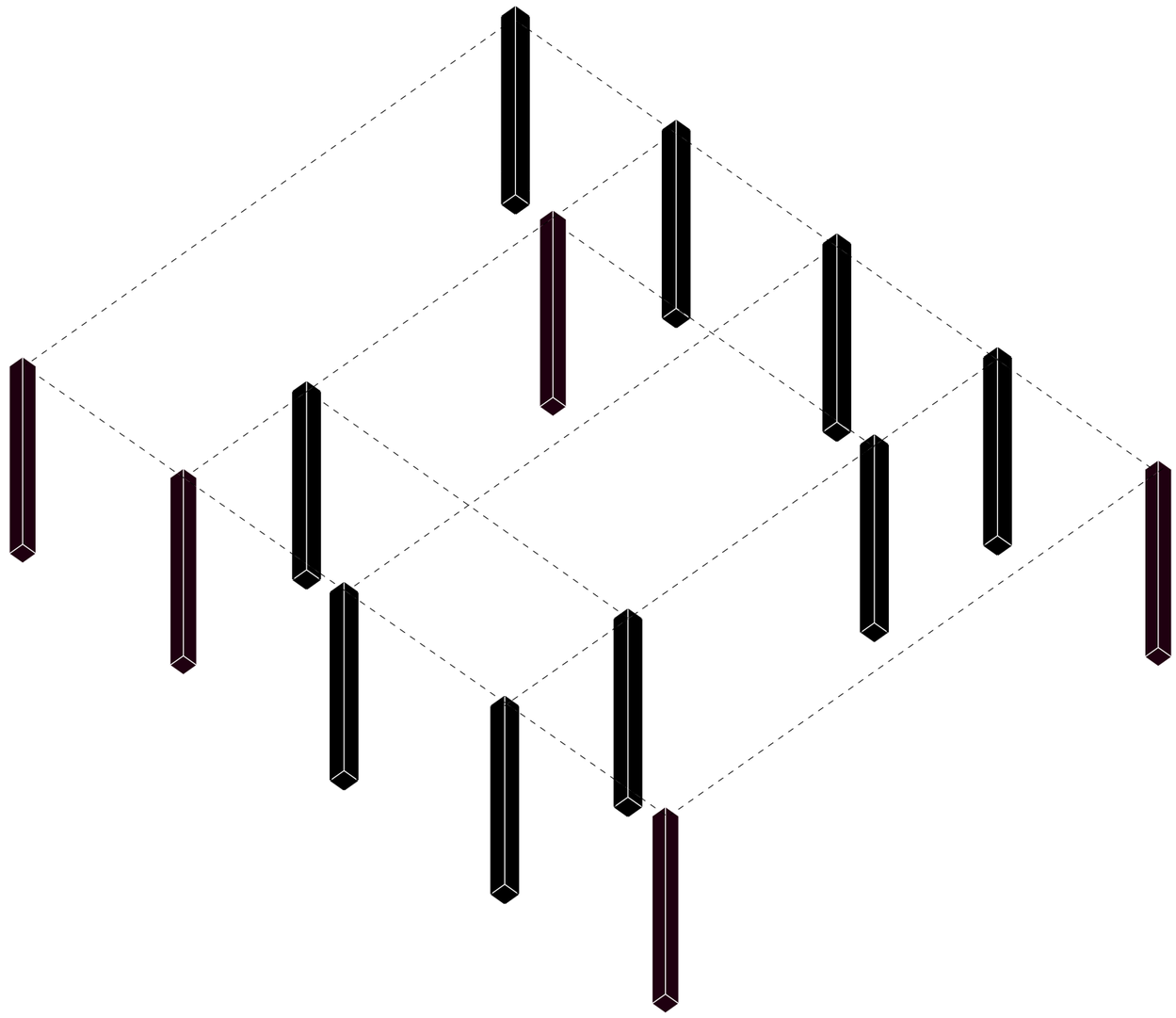
drainage & water management

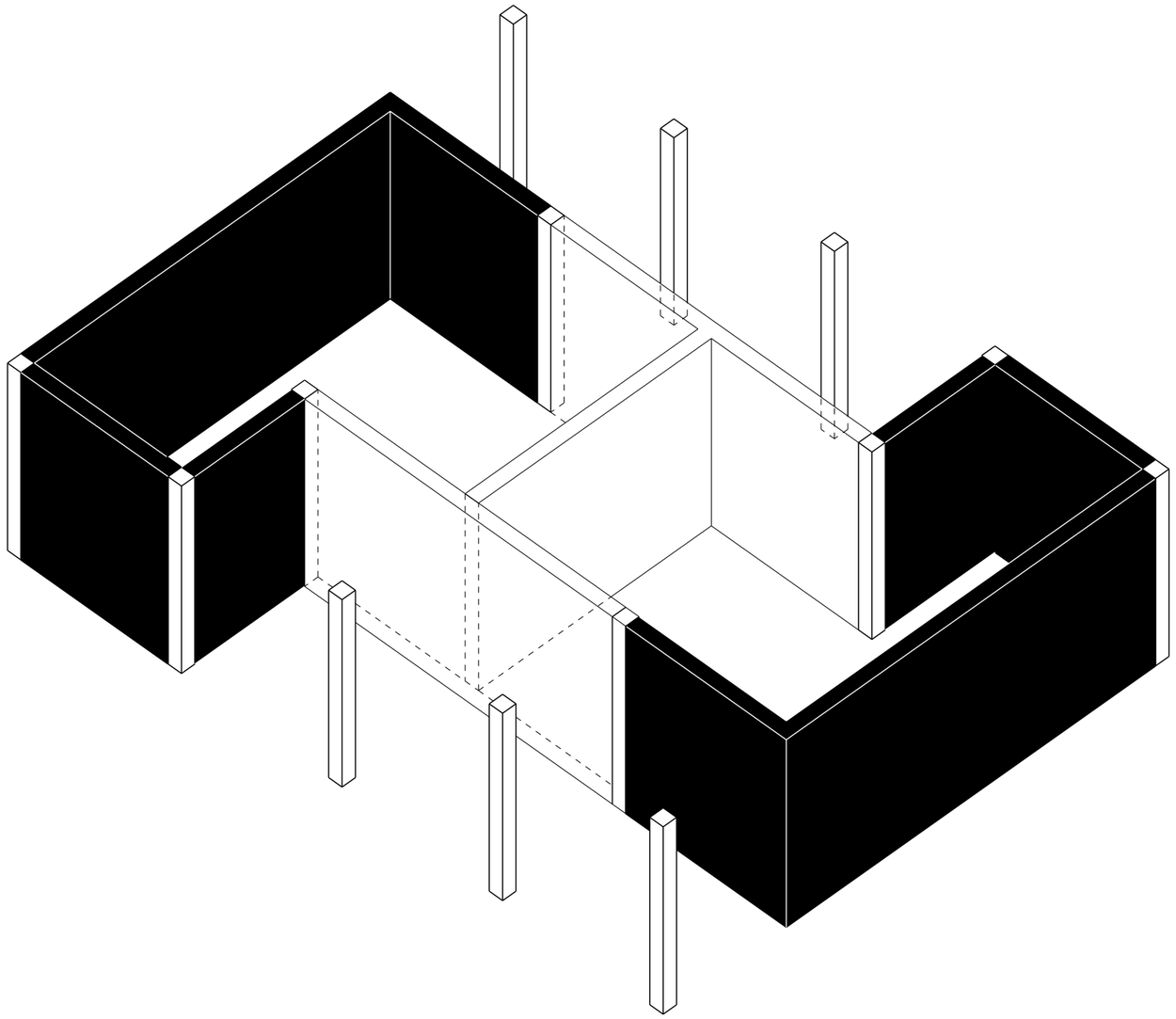


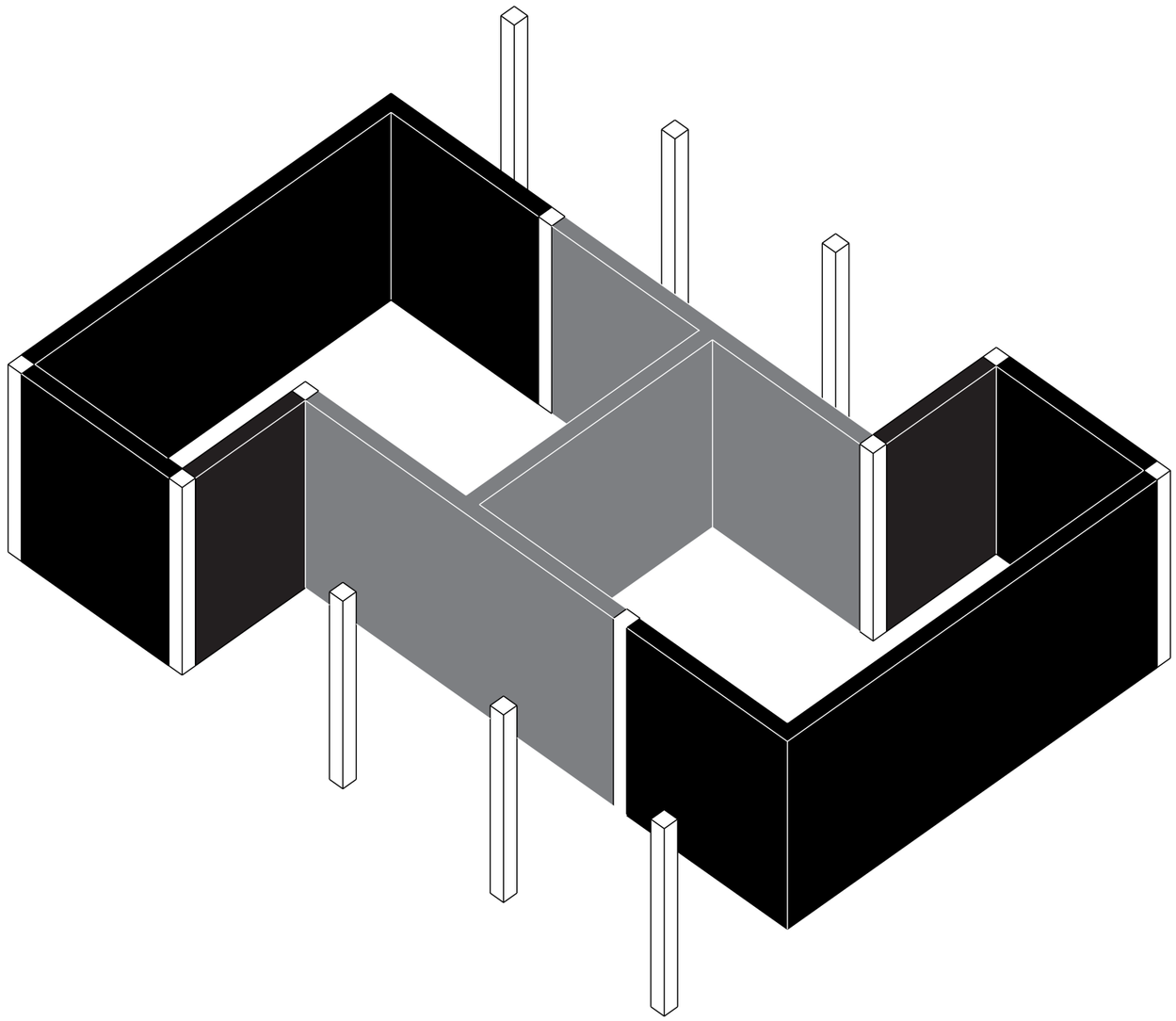


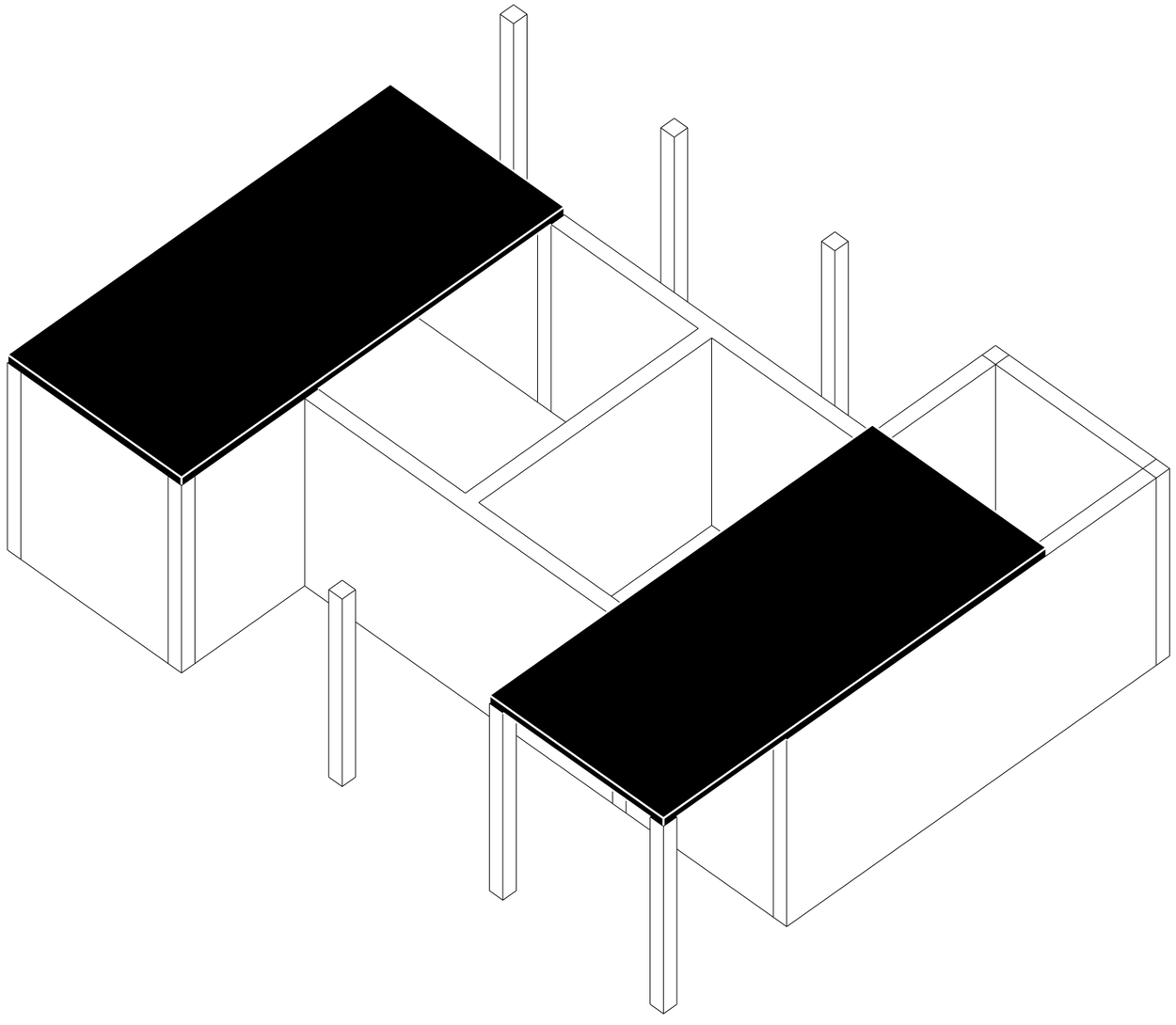


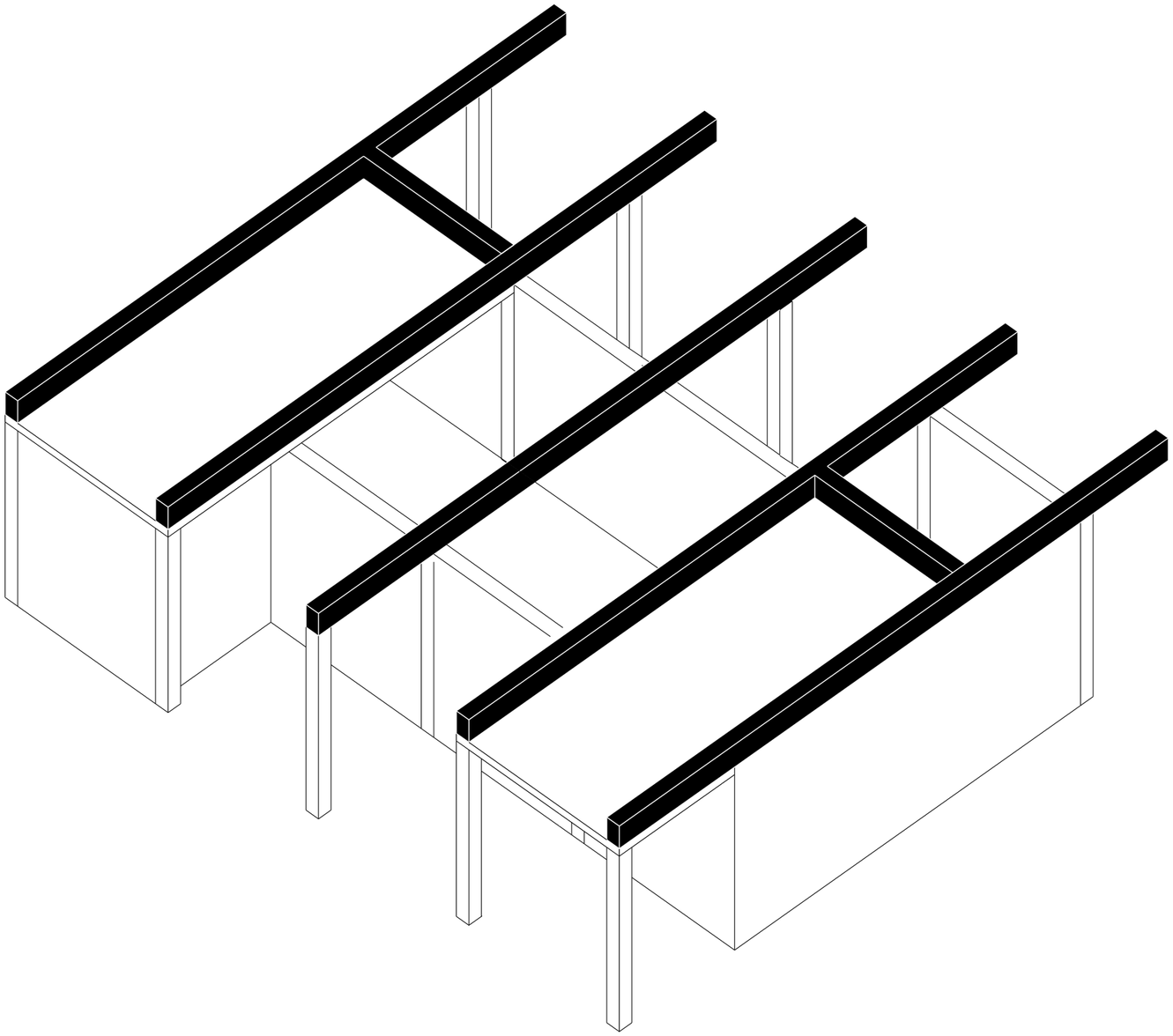
drainage & water management

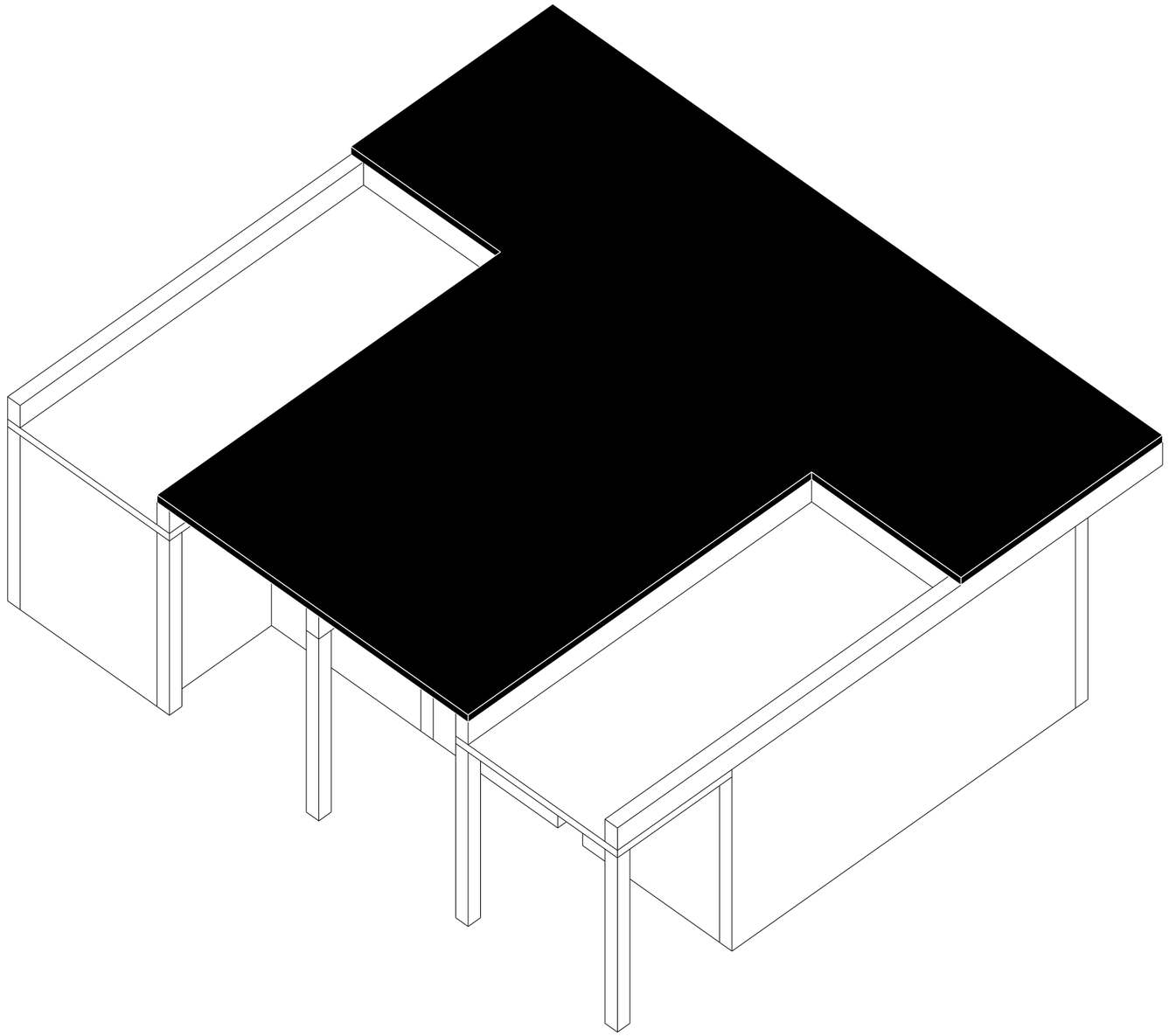


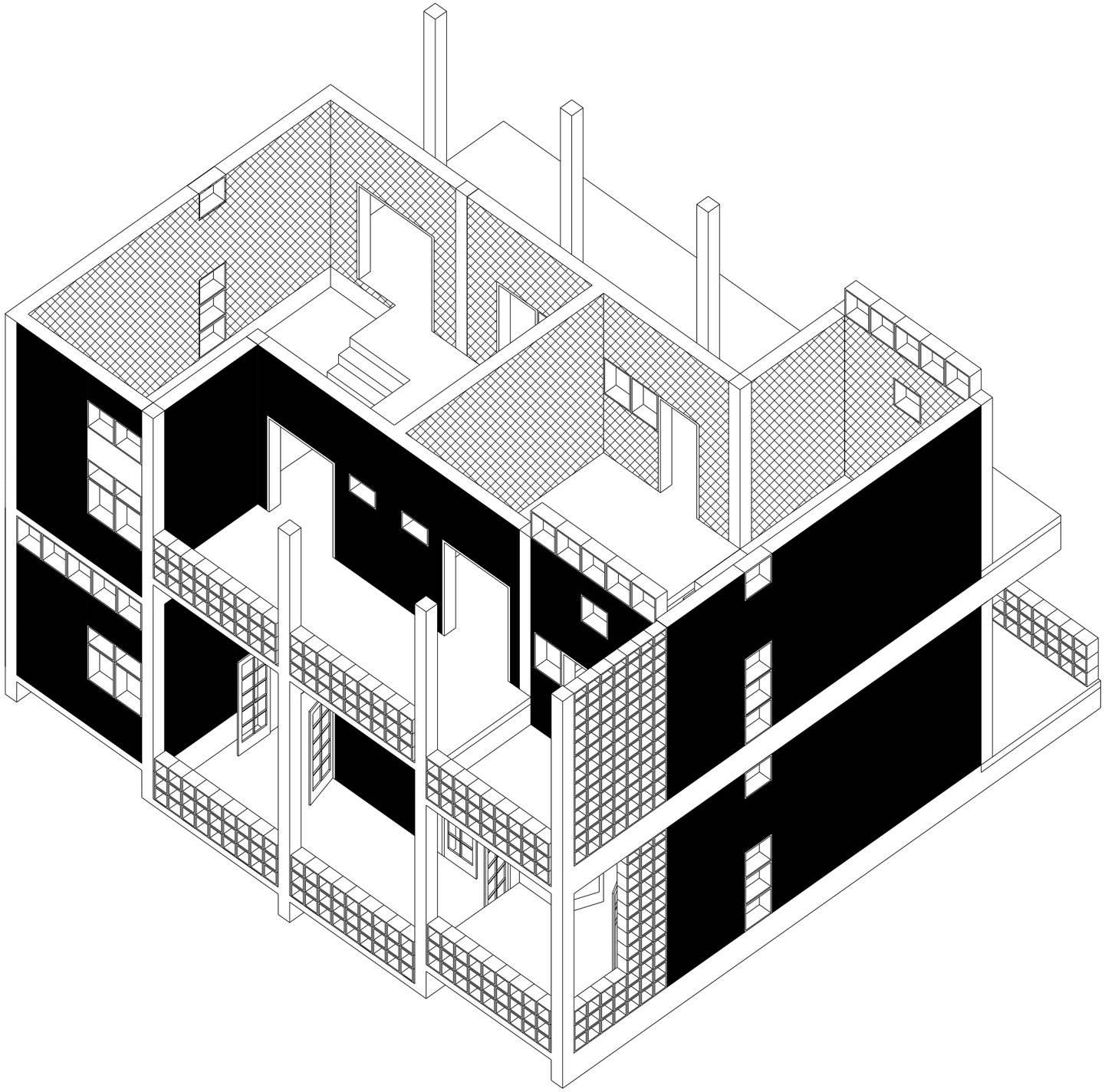




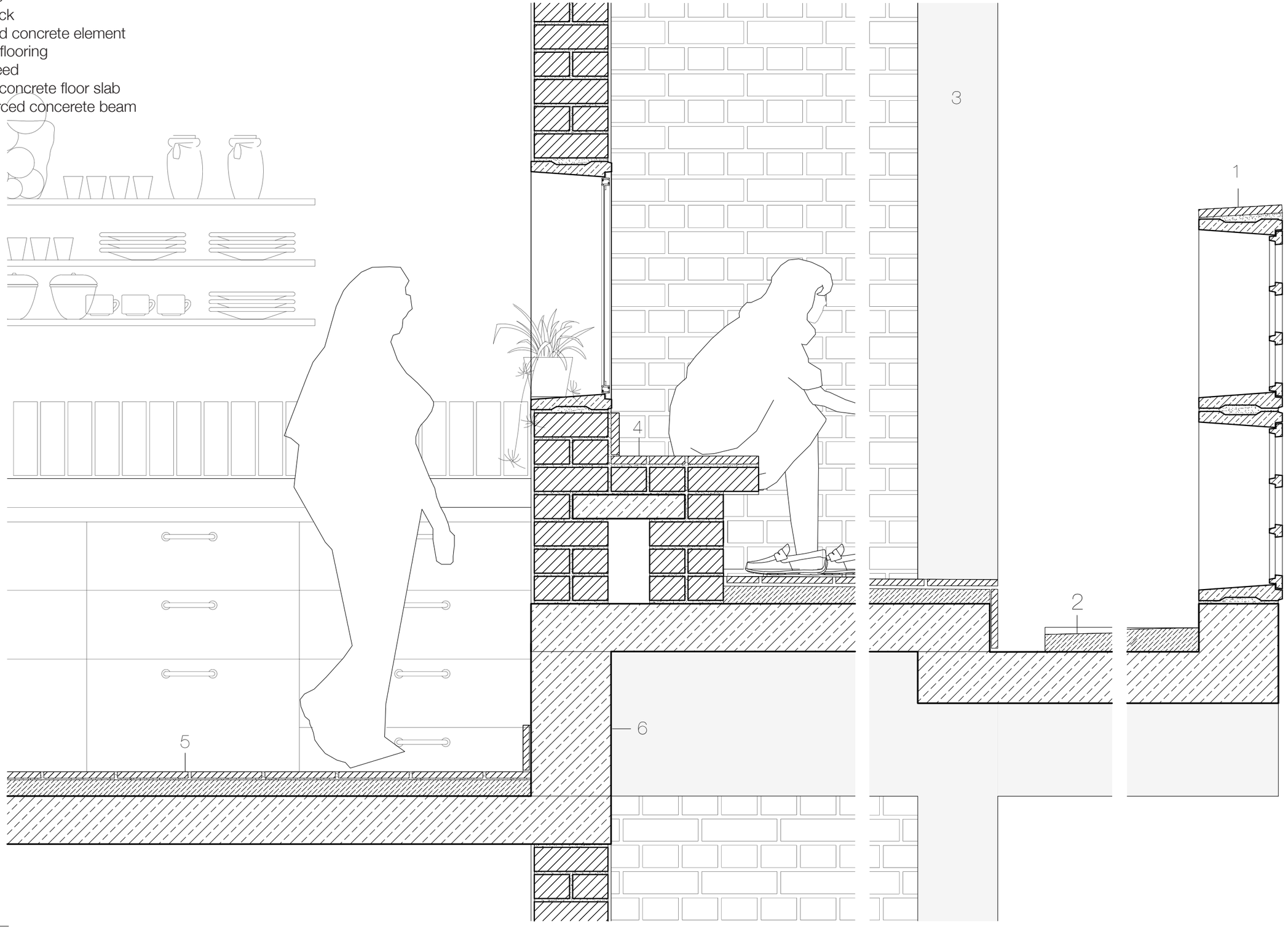


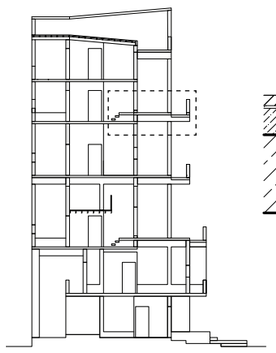




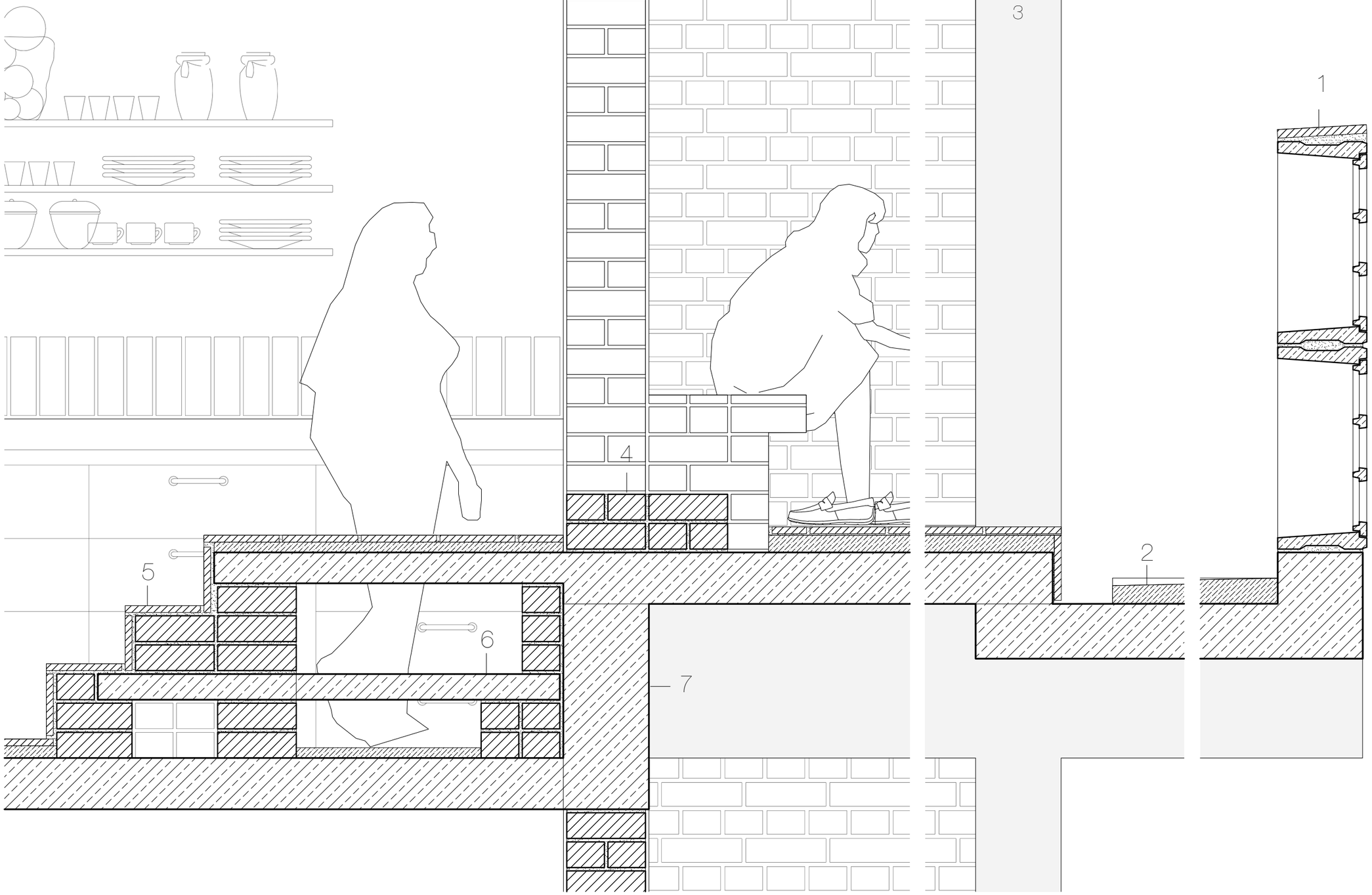


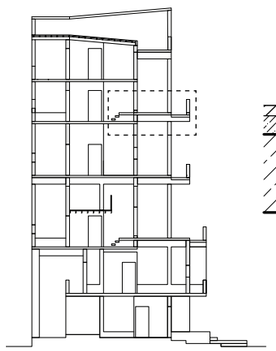
1 25 mm ceramic tile cover
precast concrete frame element without reinforcment
2 50 mm sloping cement screed
3 250/250 mm reinforced concrete column
4 25 mm ceramic tiles
220/110/75 mm brick
75 mm prefabricated concrete element
5 25 mm ceramic tile flooring
30 mm cement screed
150 mm reinforced concrete floor slab
6 250/450 mm reinforced concerete beam



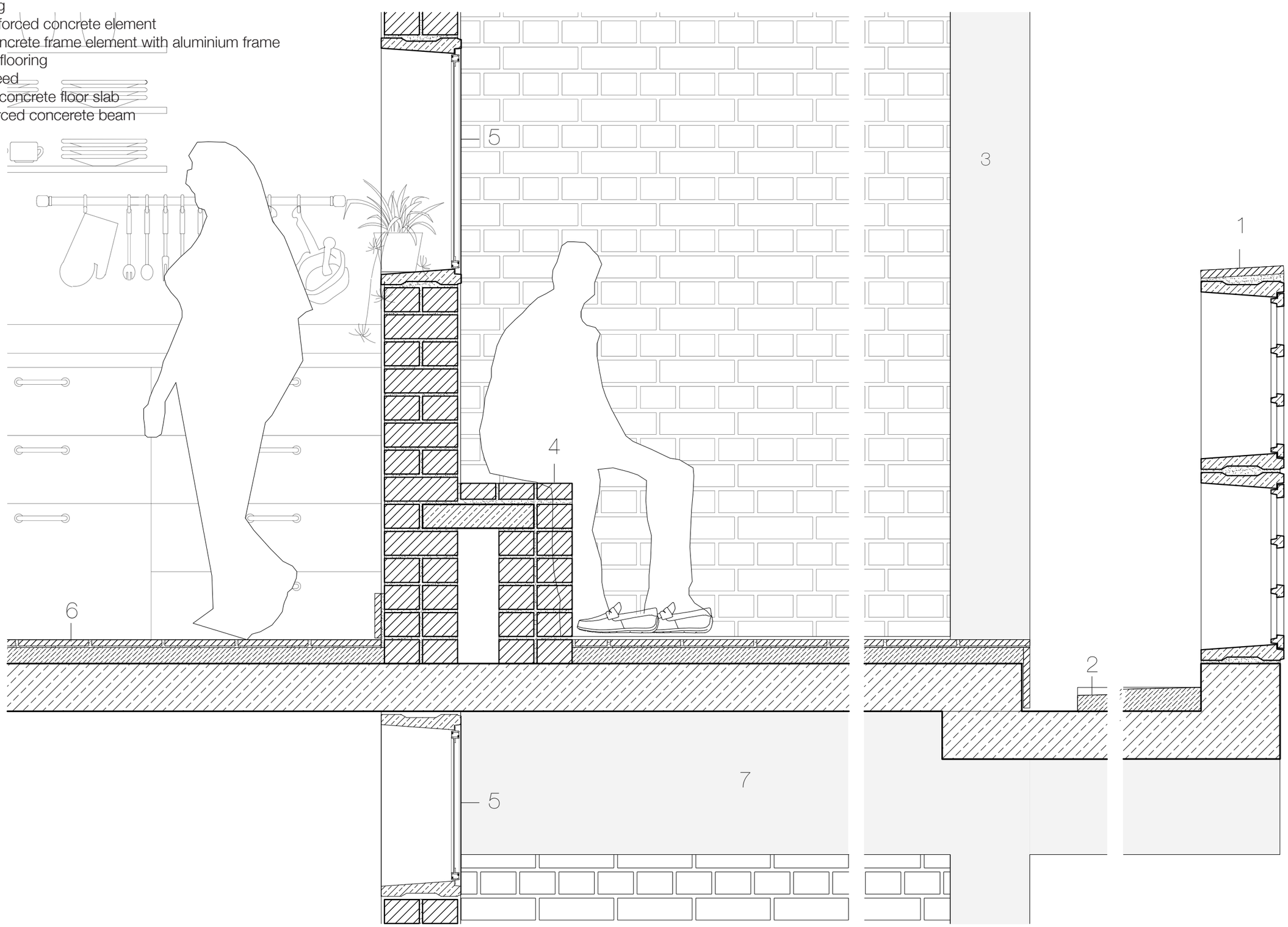


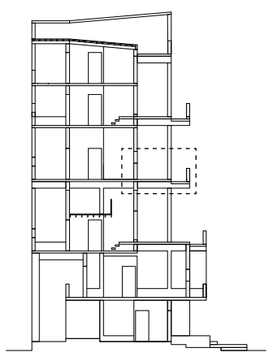
1 25 mm ceramic tile cover
precast concrete frame element without reinforcment
2 50 mm sloping cement screed
3 250/250 mm reinforced concrete column
4 four leaf brick step
5 25 mm ceramic tile flooring
brick stair
6 75 mm precast concrete element
7 250/450 mm reinforced concerete beam



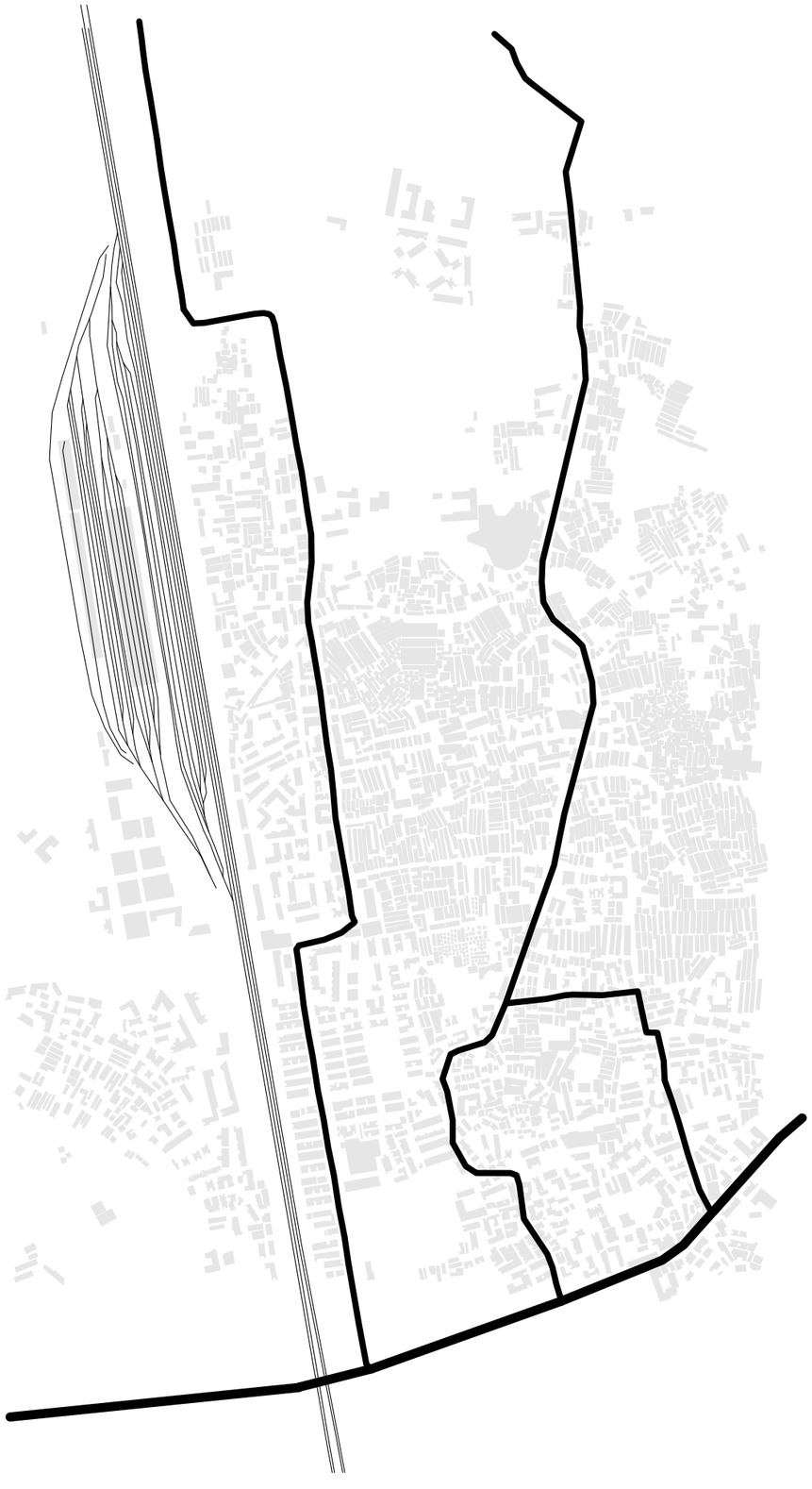


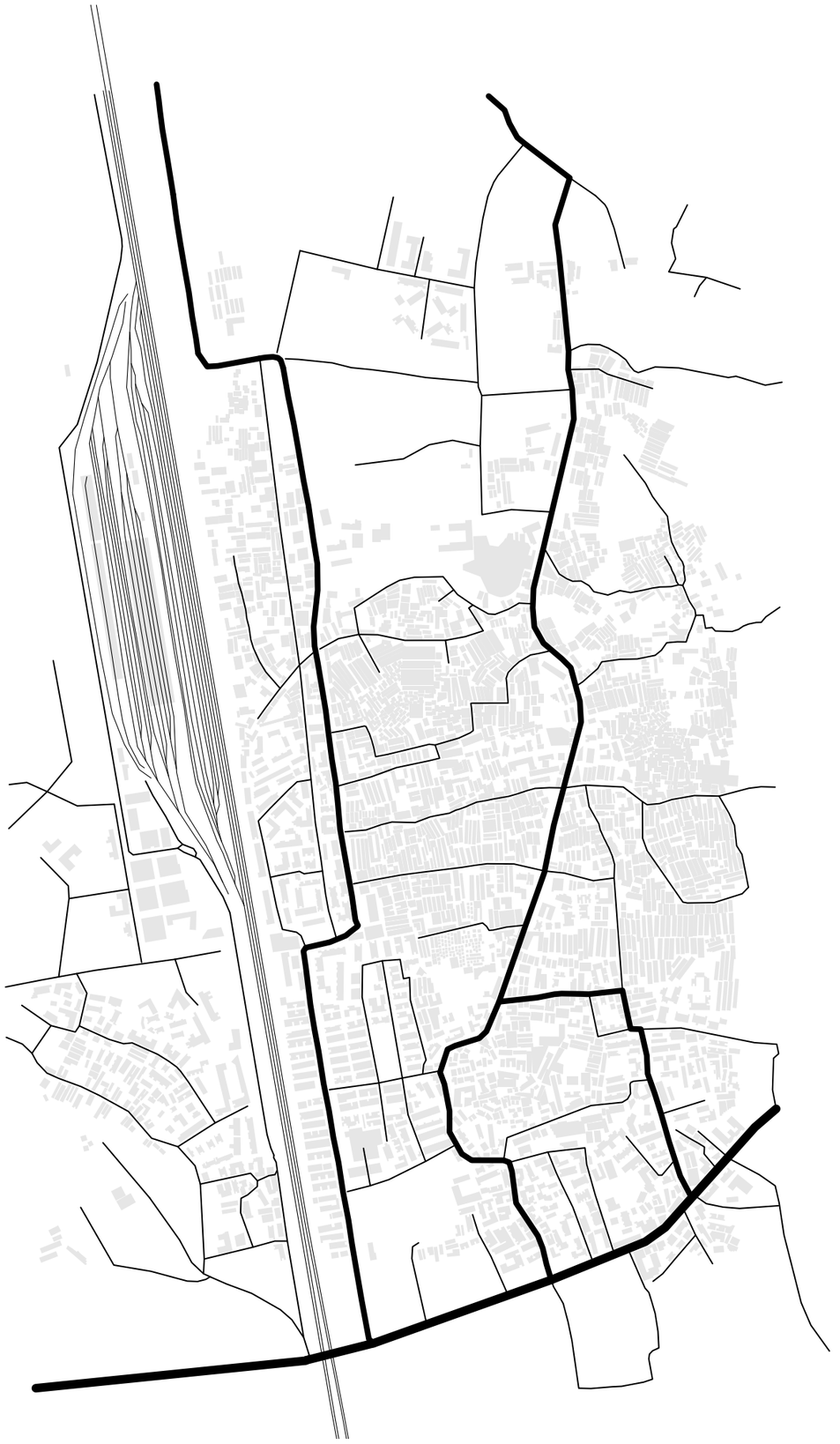
1 25 mm ceramic tile cover
precast concrete frame element without reinforcment
2 50 mm sloping cement screed
3 250/250 mm reinforced concrete column
4 50 mm brick flooring
75 mm precast reinforced concrete element
5 window: precast concrete frame element with aluminium frame
6 25 mm ceramic tile flooring
30 mm cement screed
150 mm reinforced concrete floor slab
7 250/450 mm reinforced concerete beam

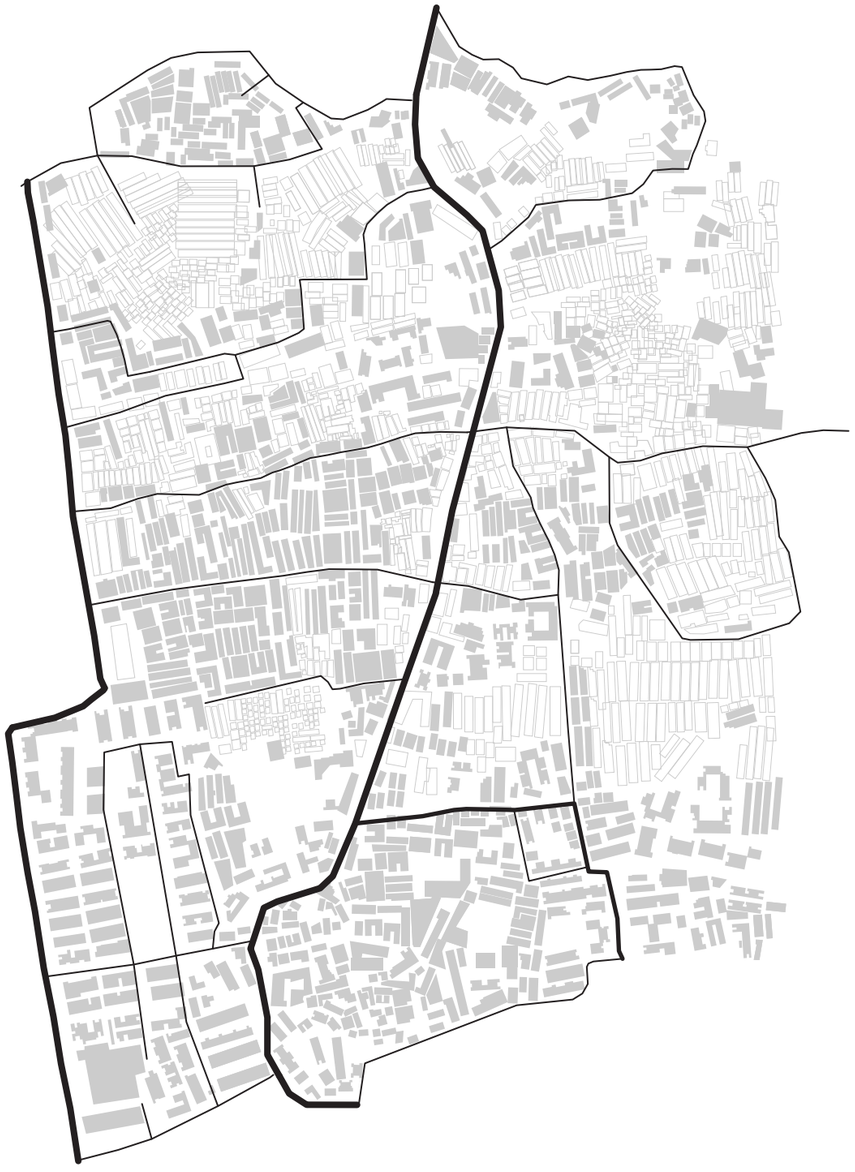


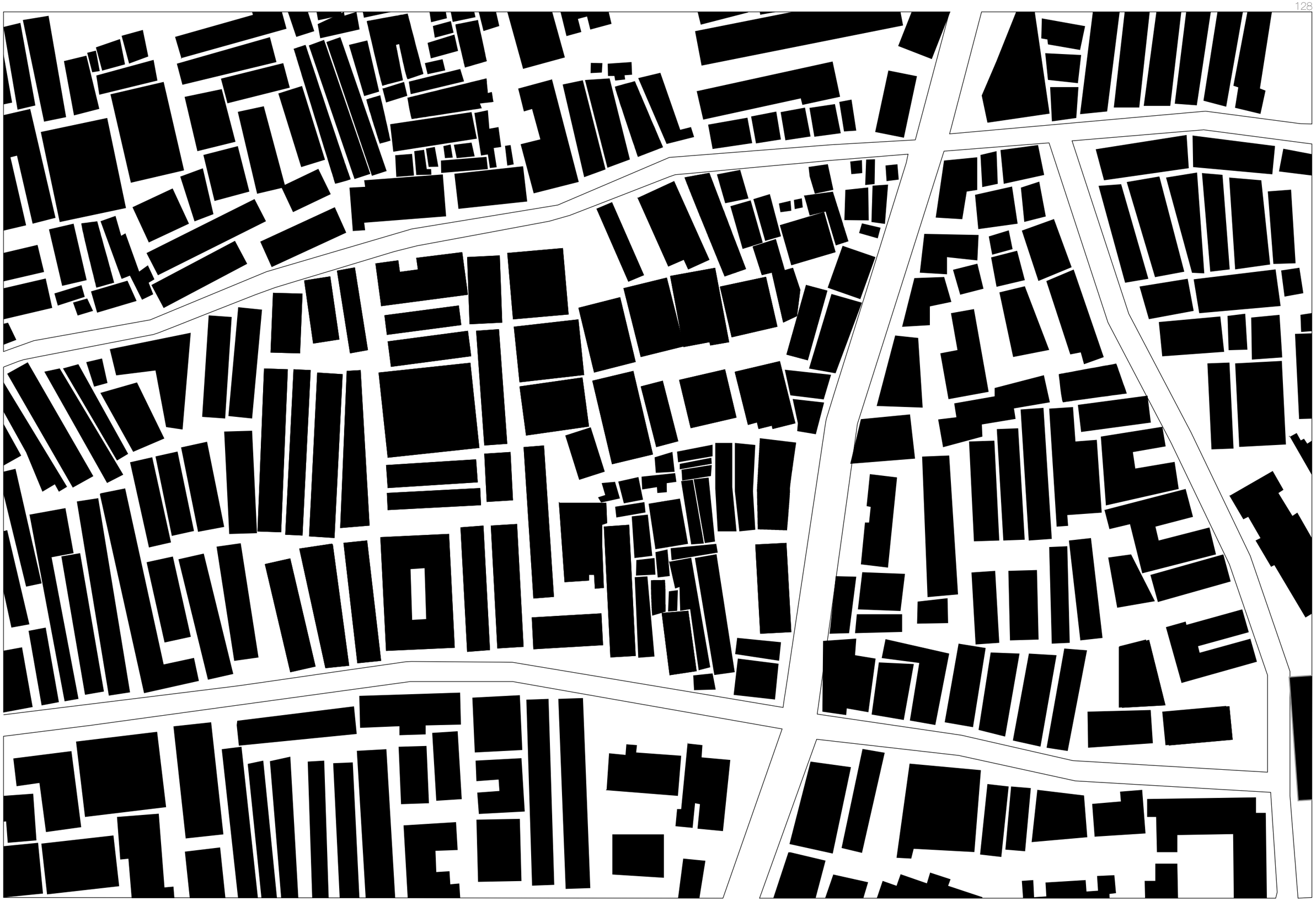


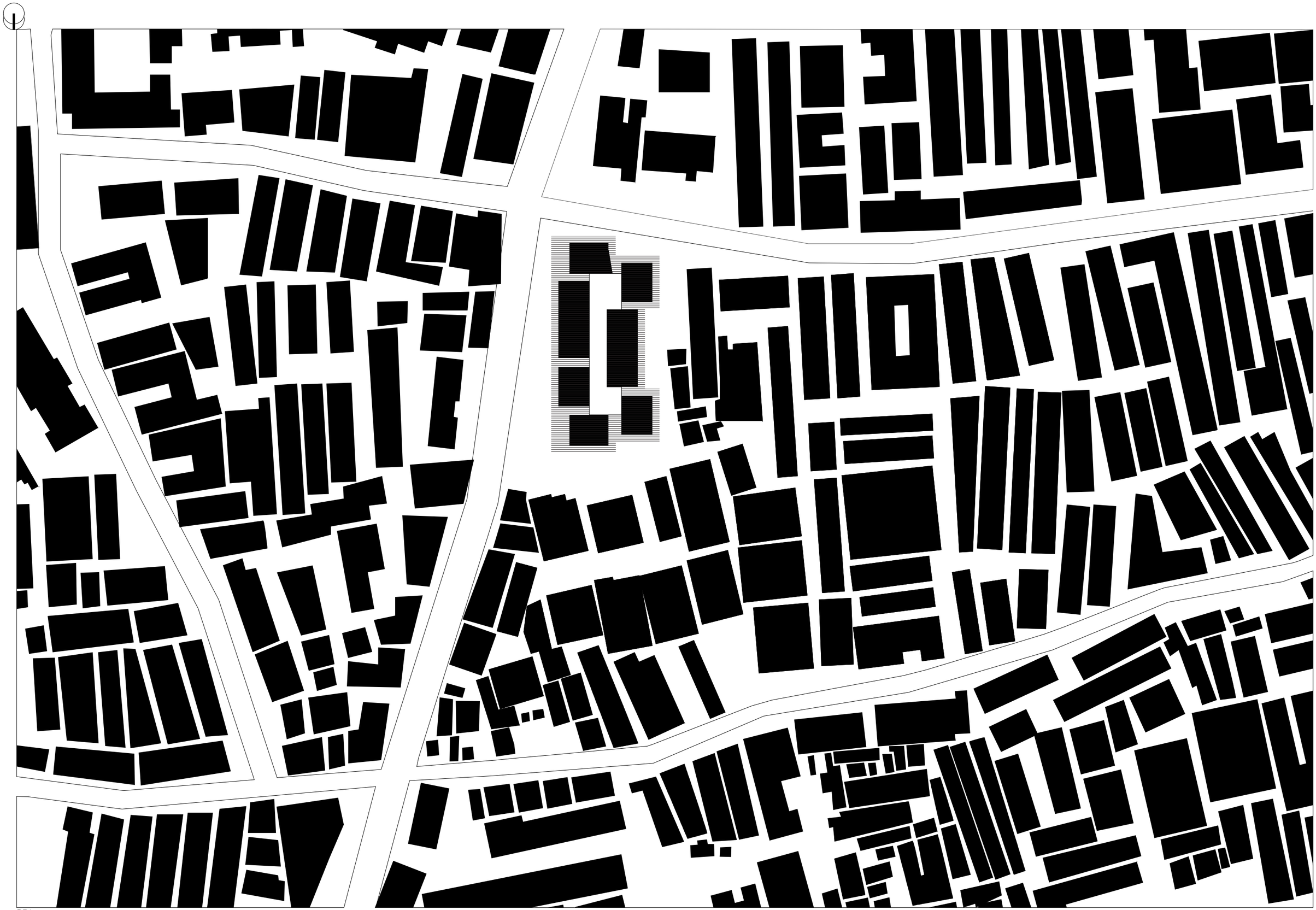
urban strategy

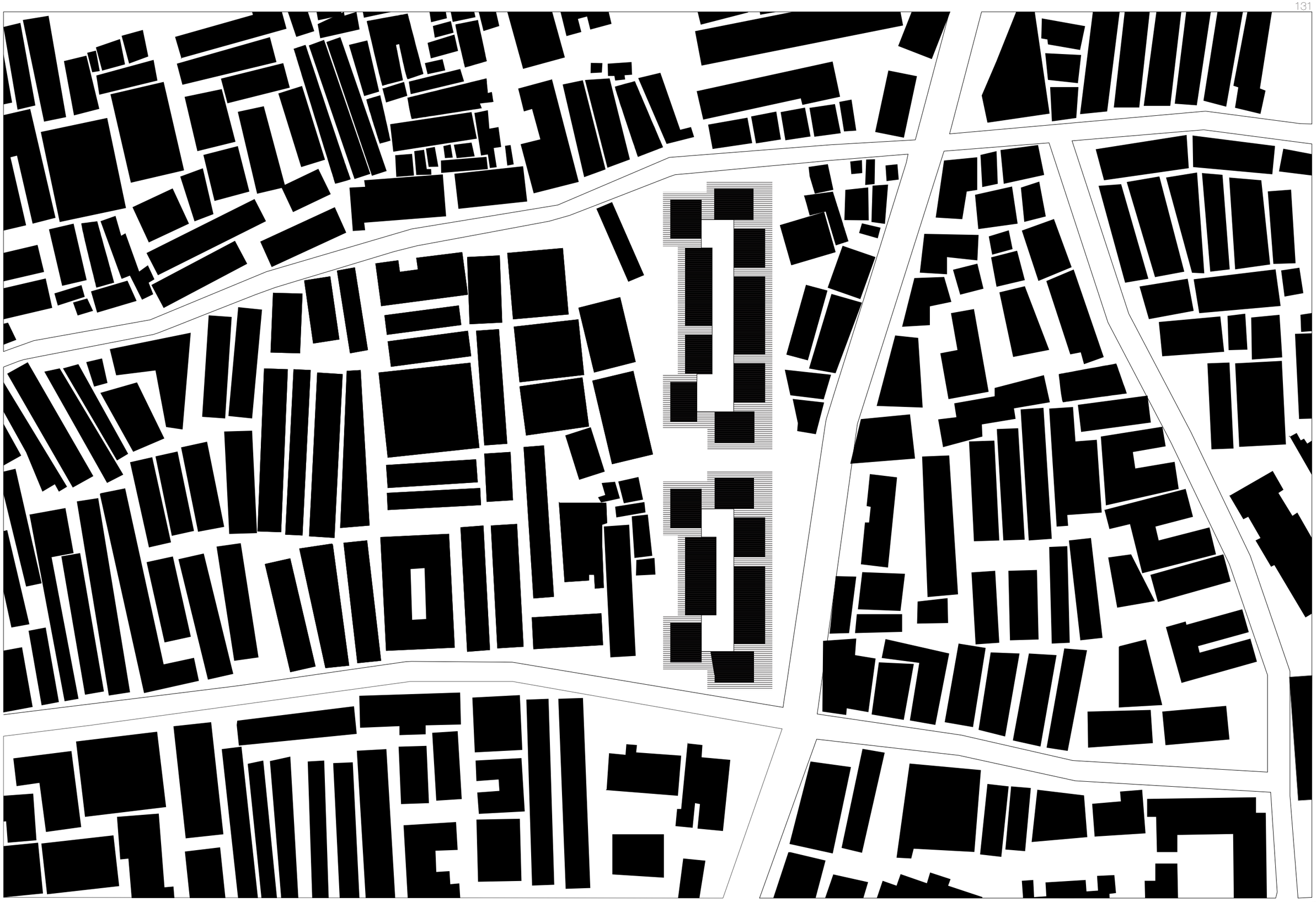


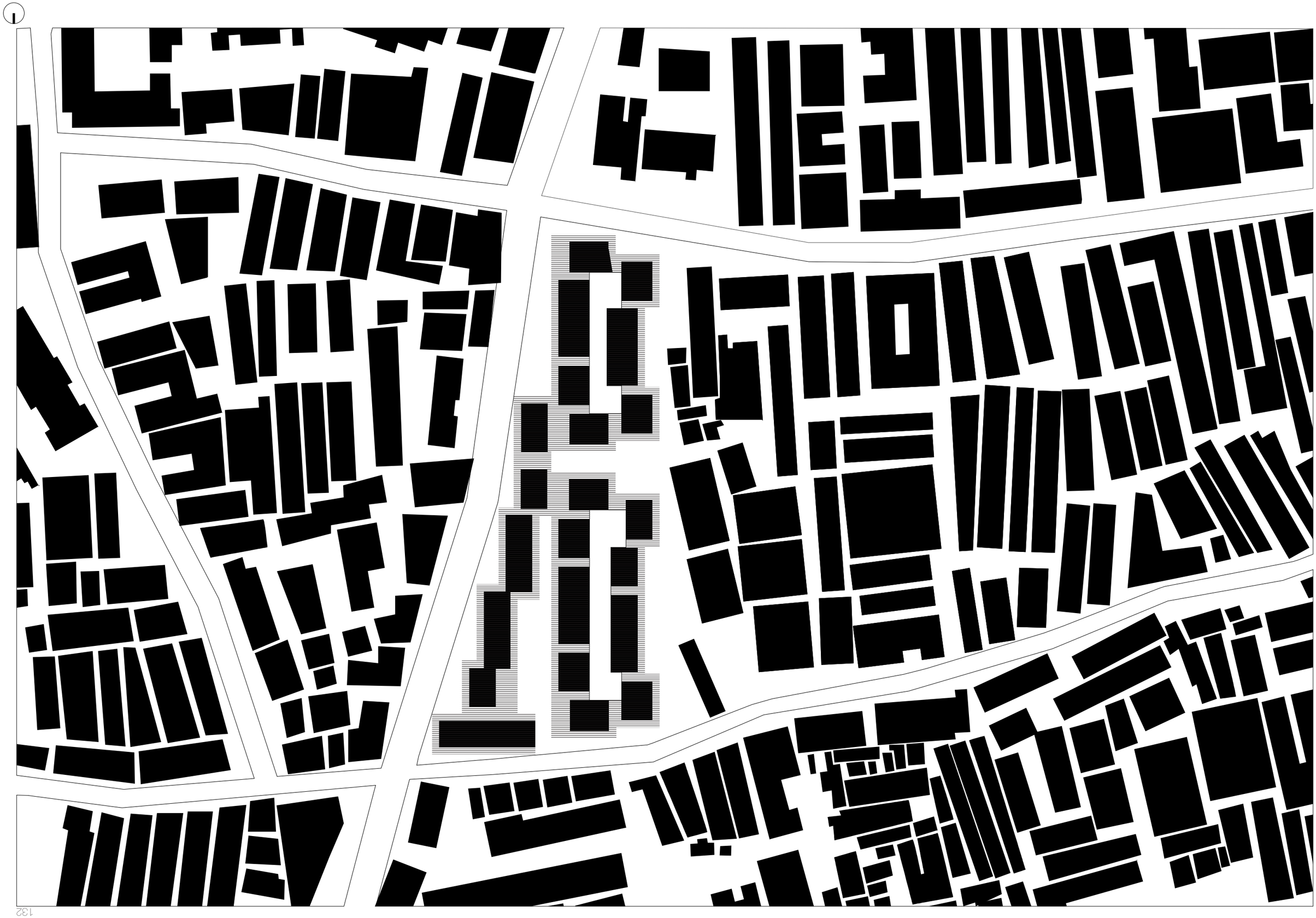


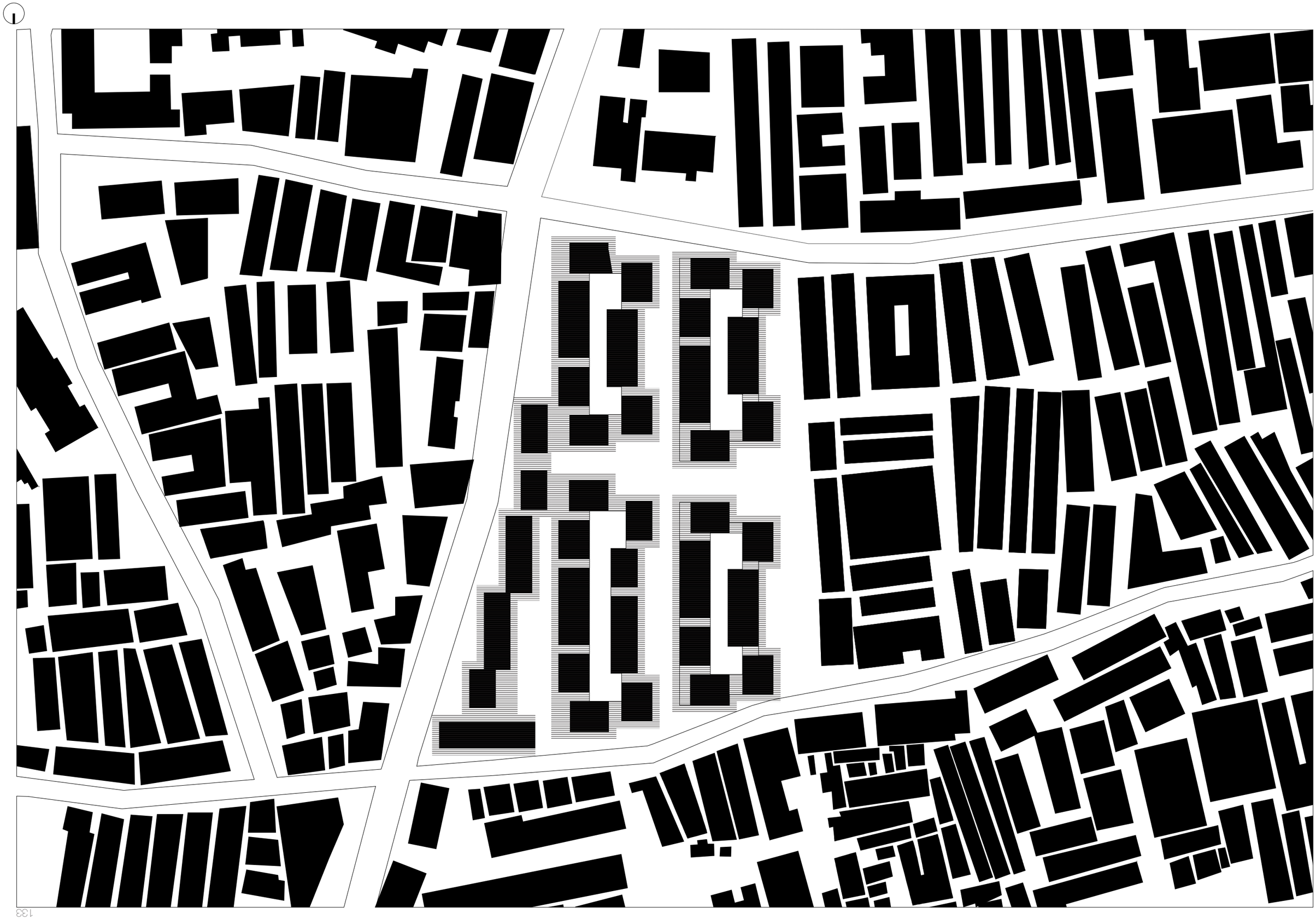


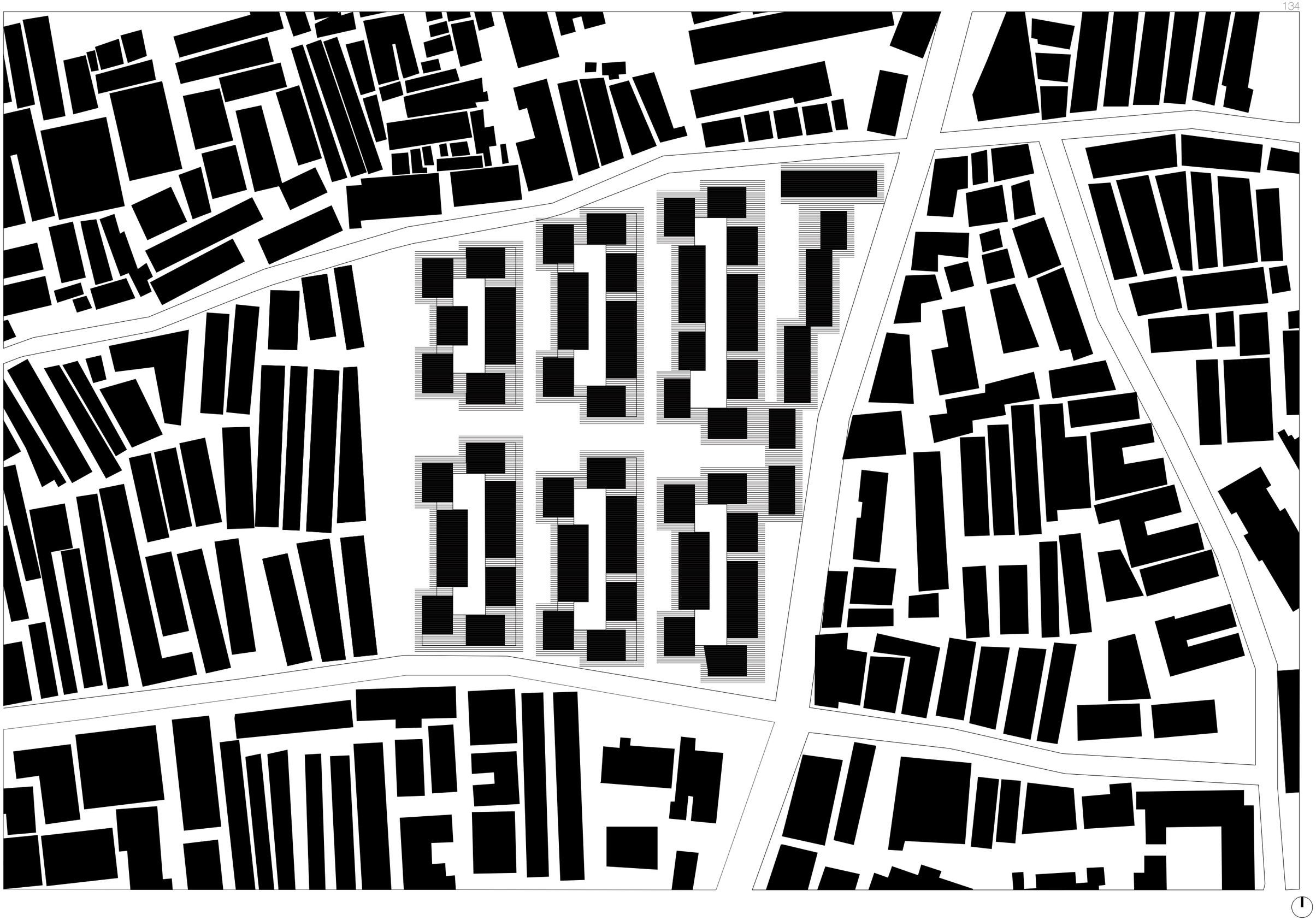


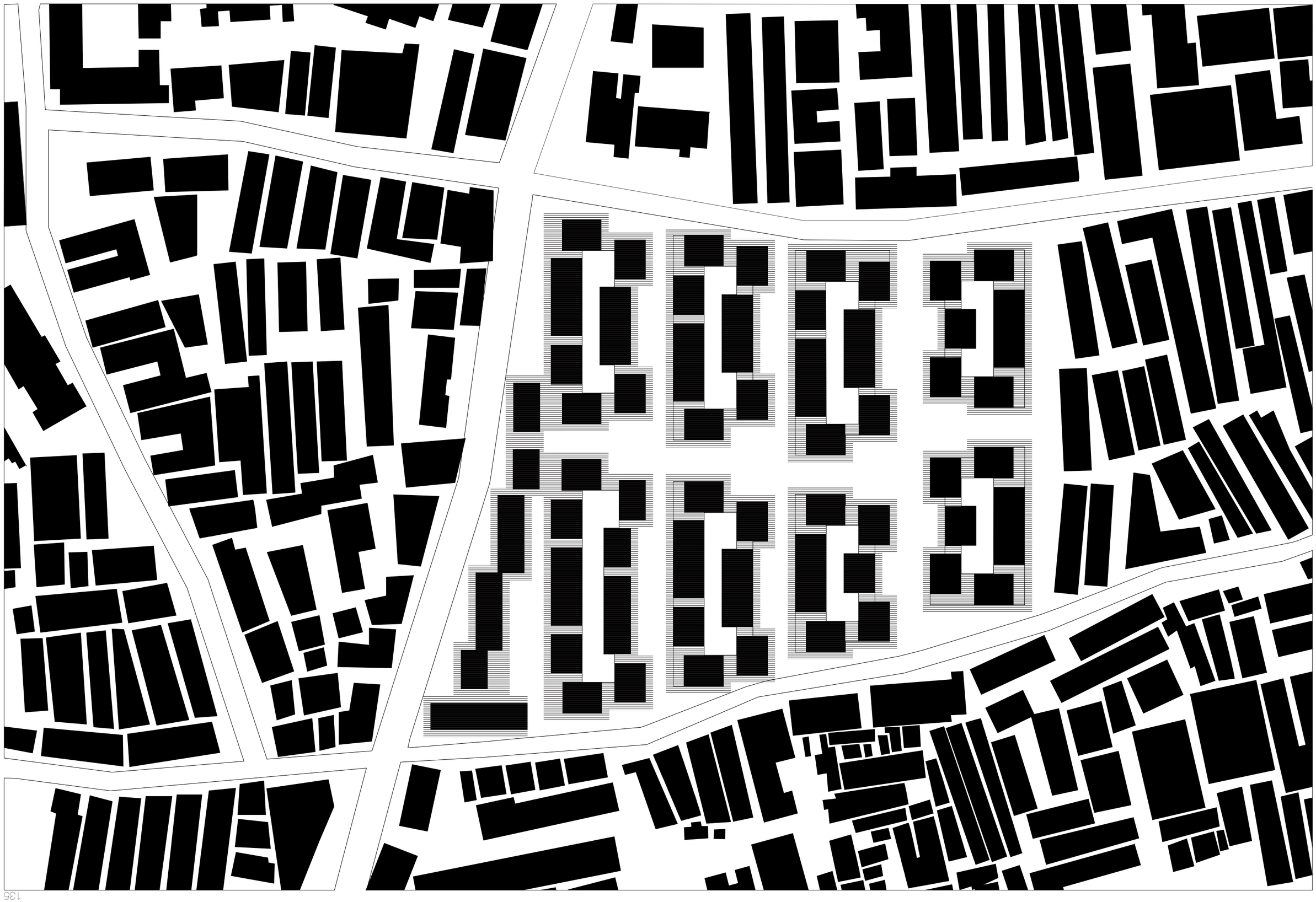


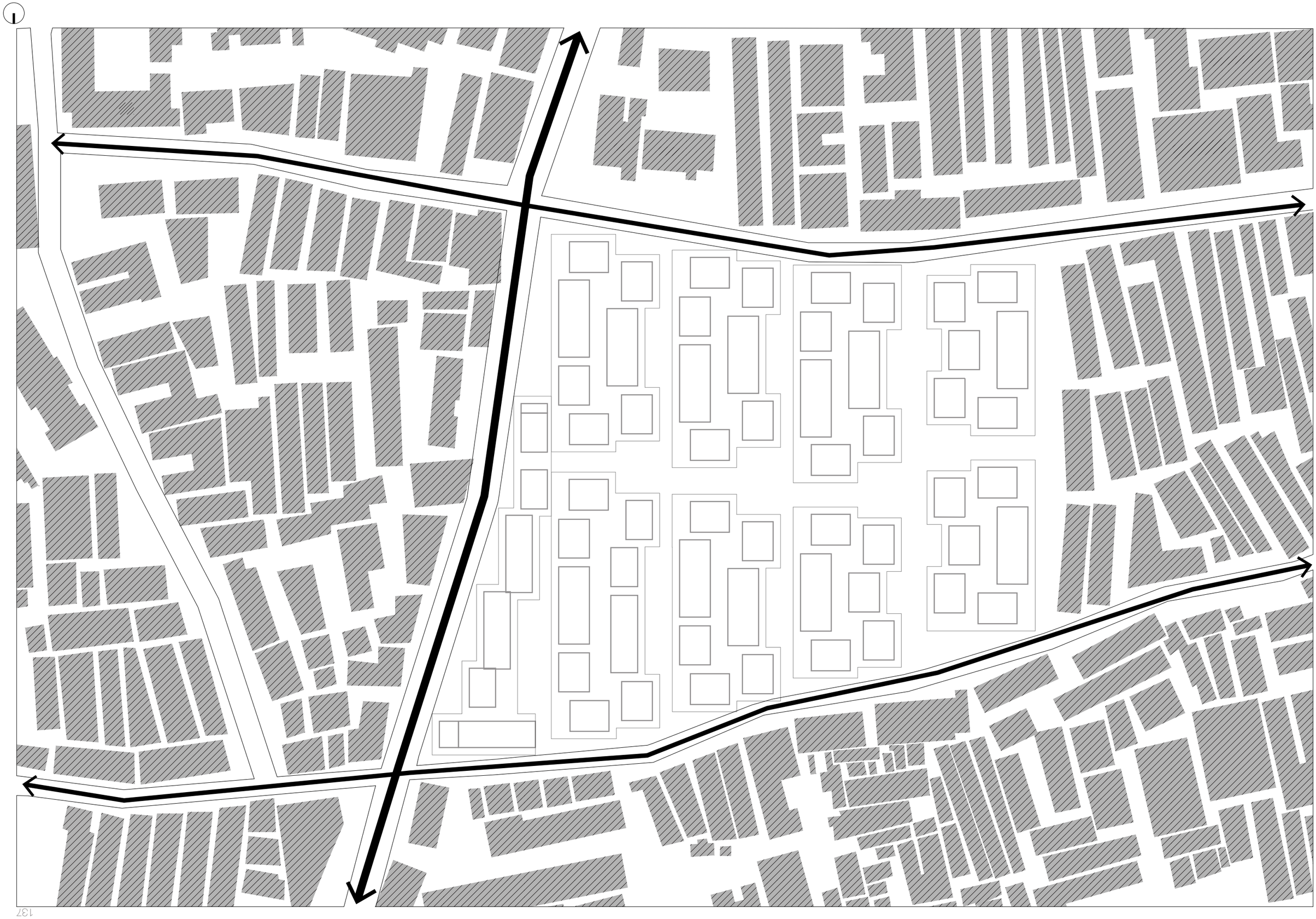


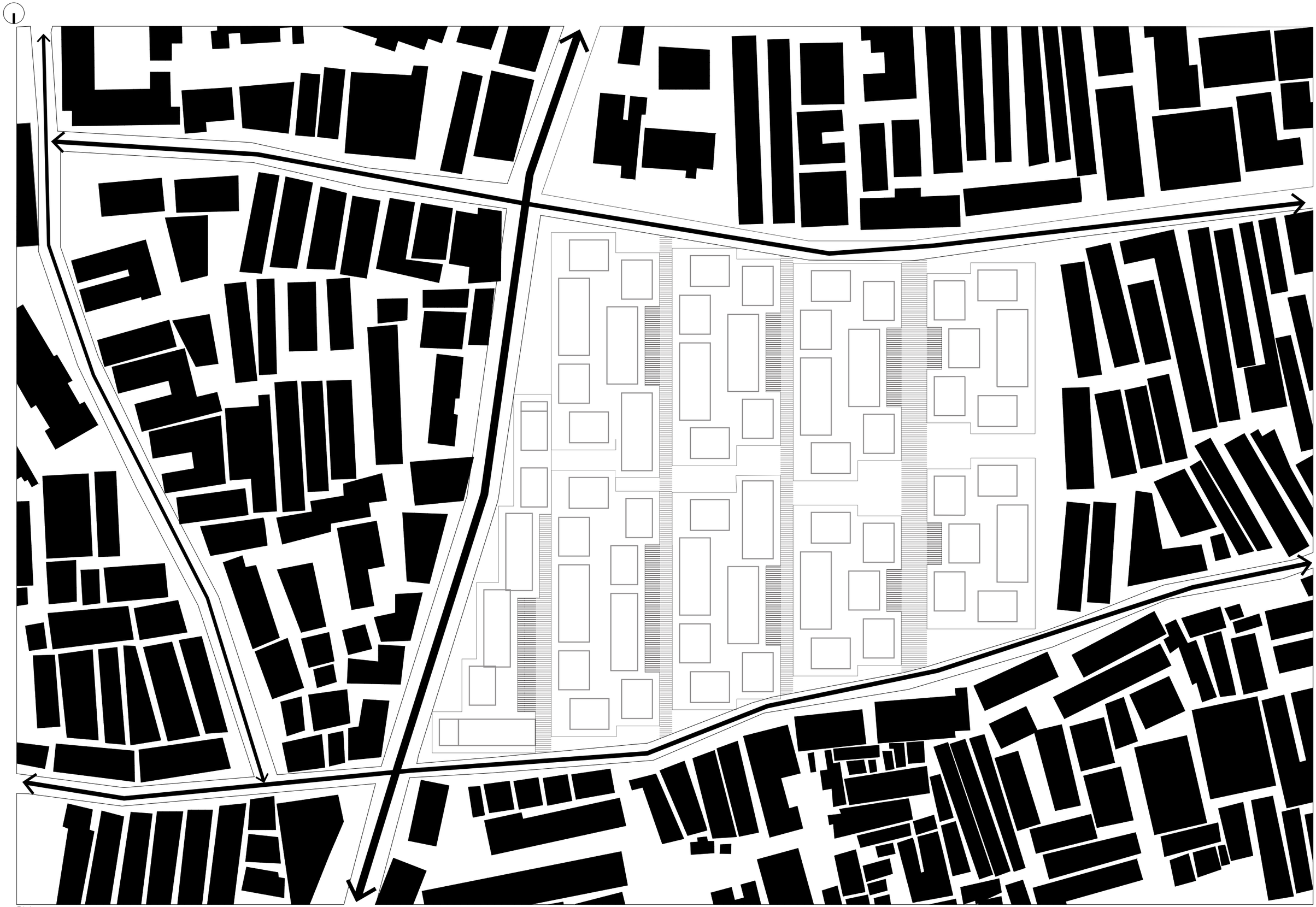


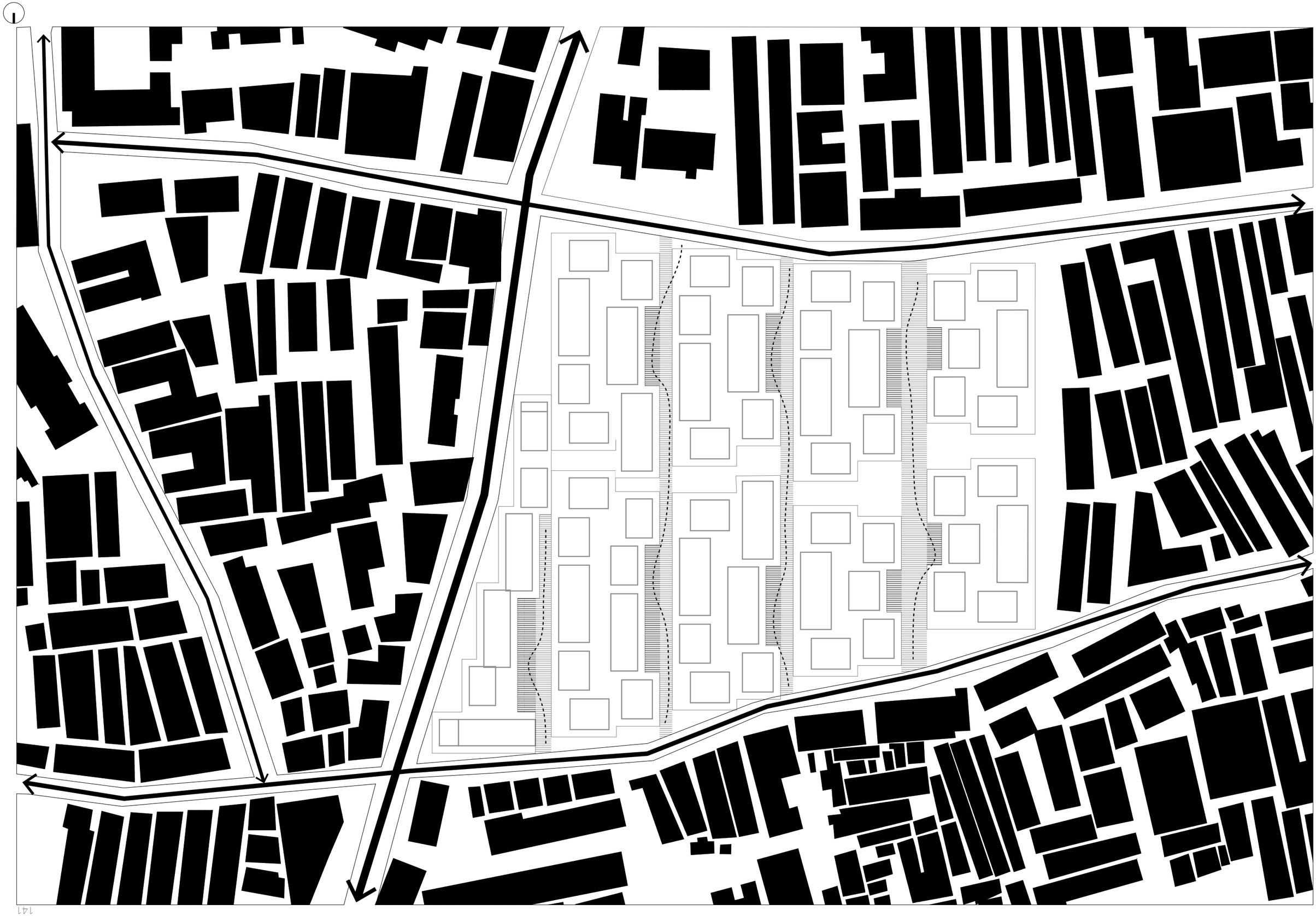


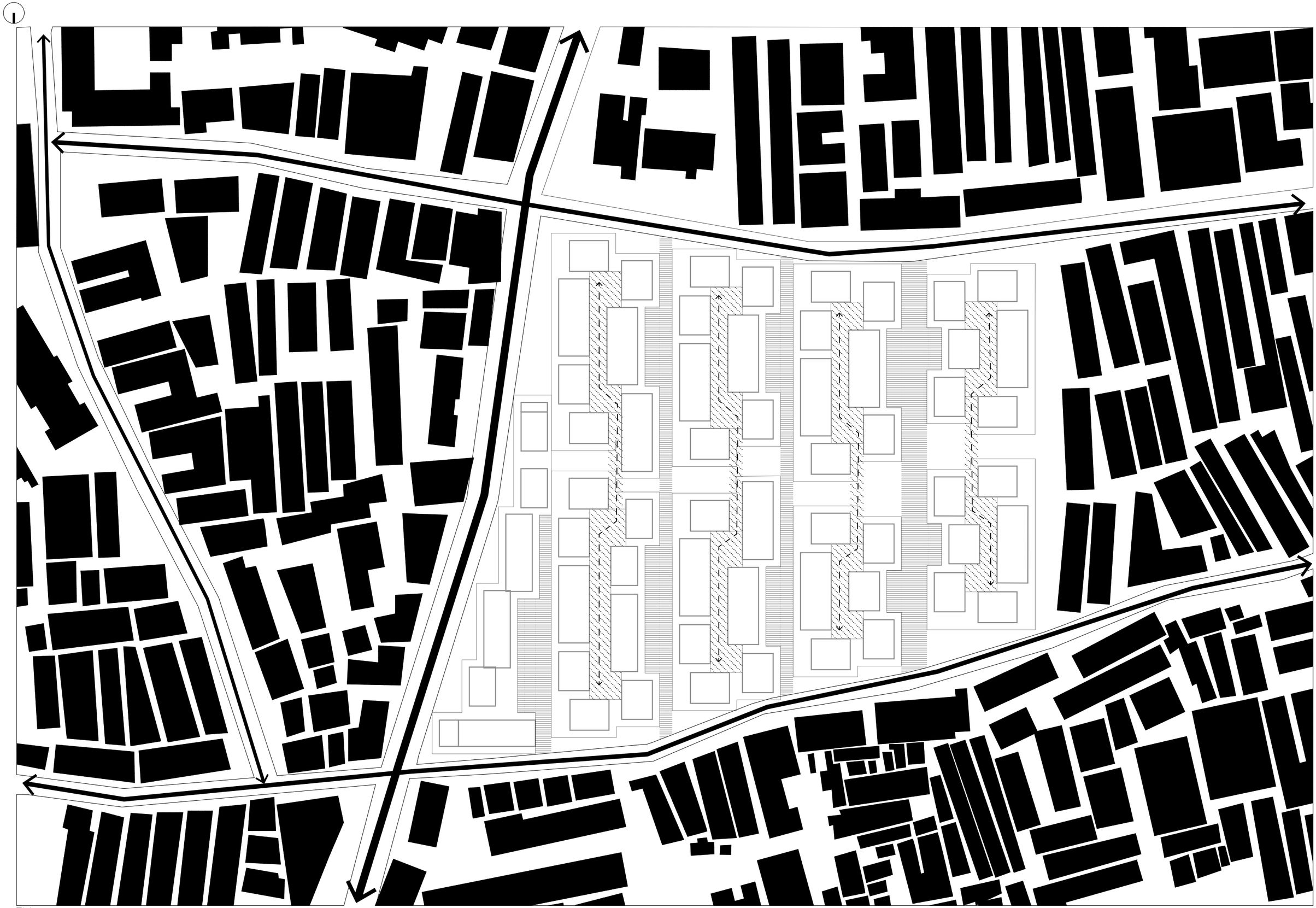


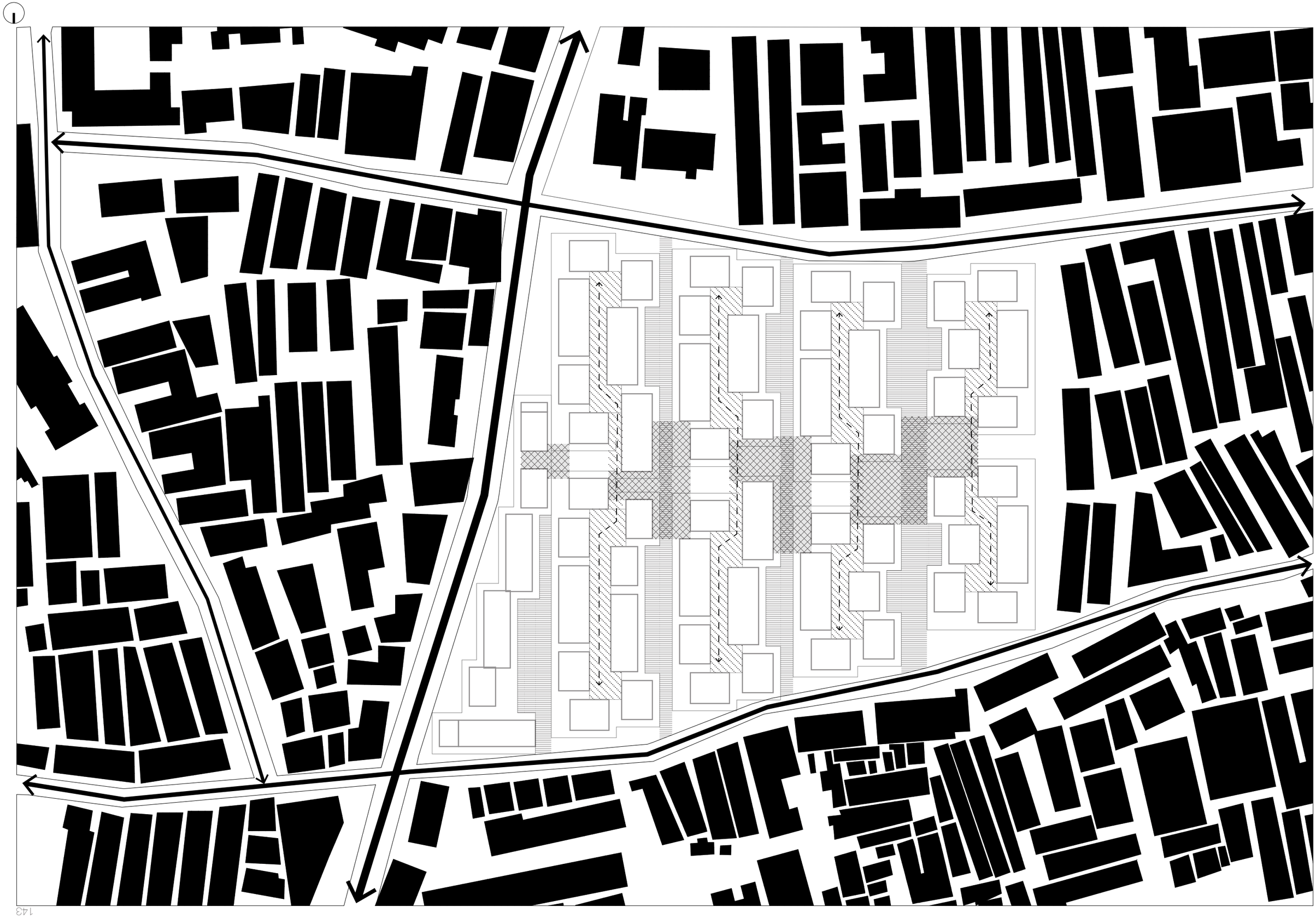


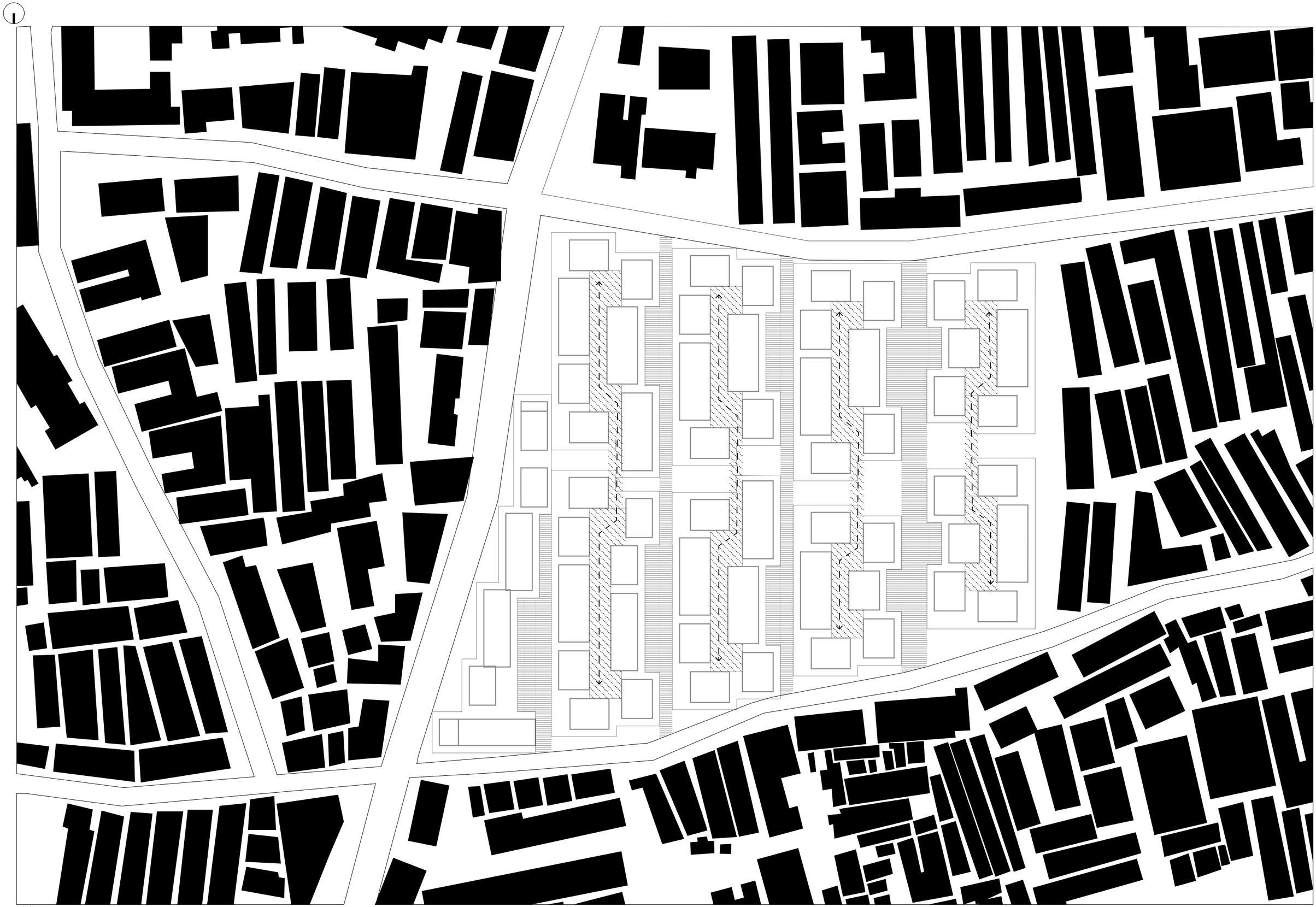


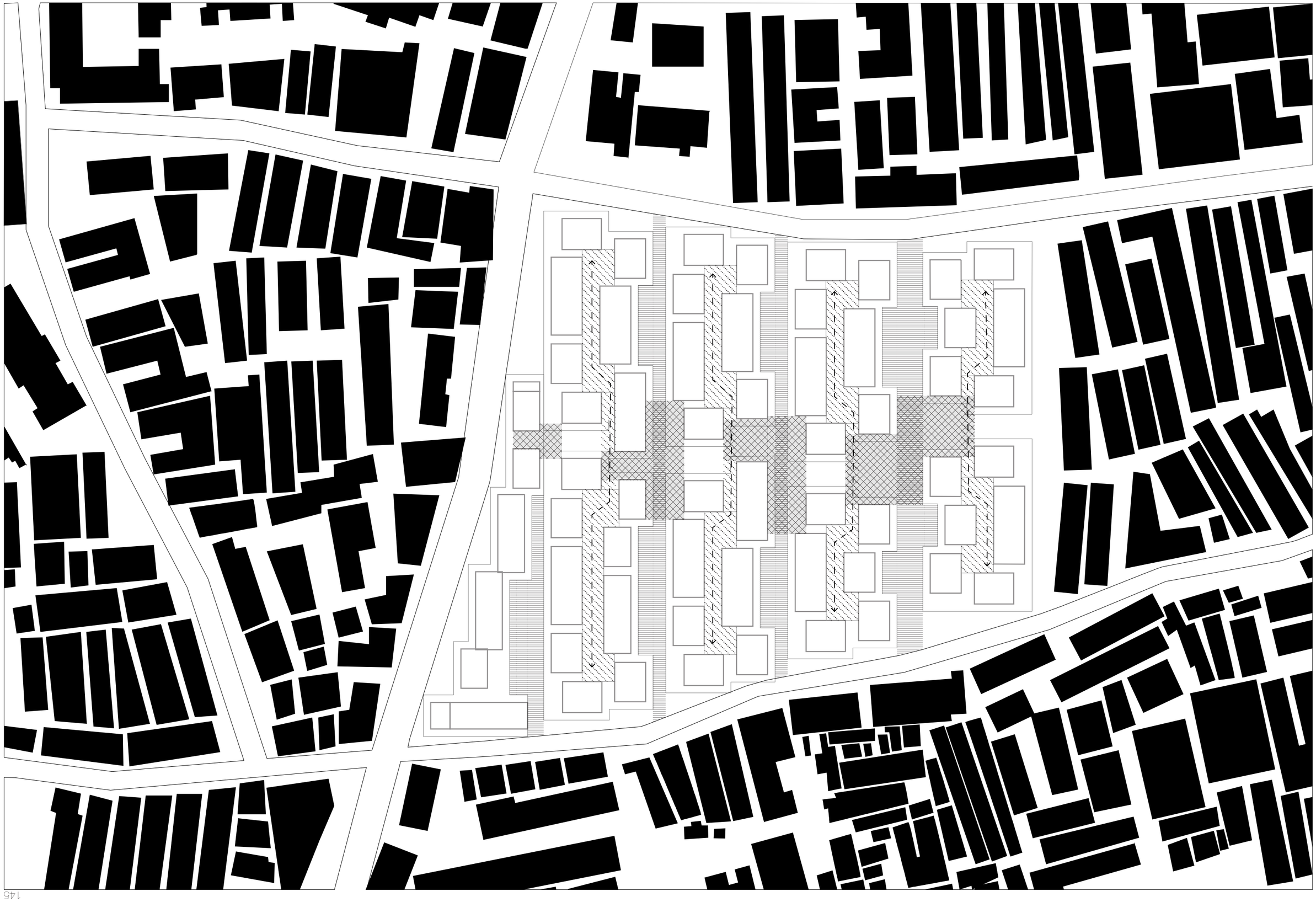


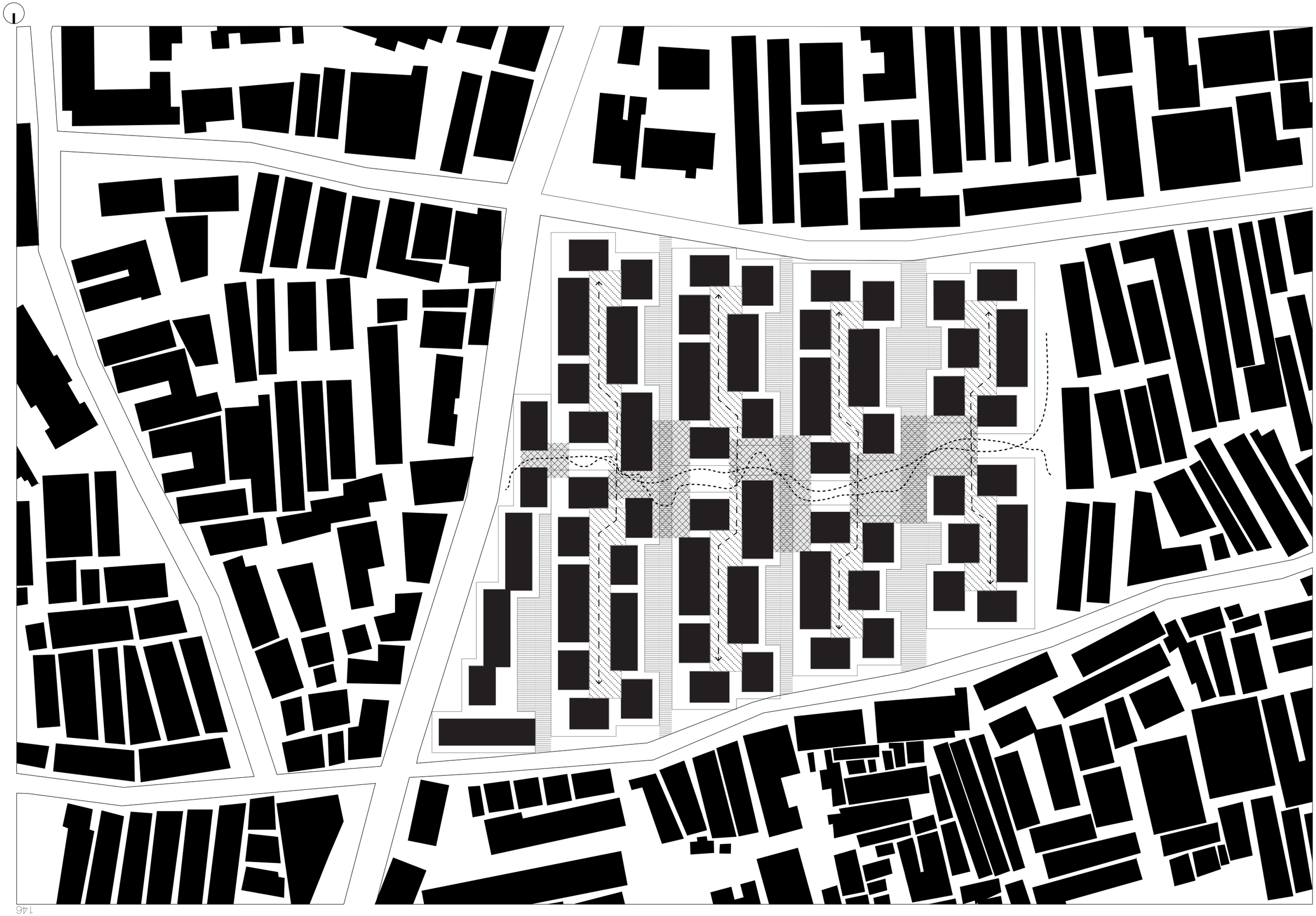




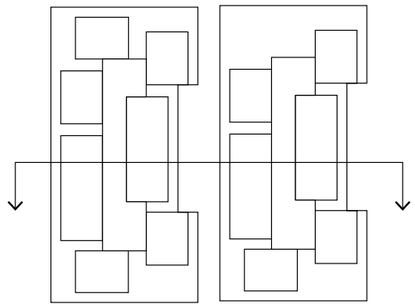








FSI: 2.3
dwellings/ha: 950
people per/ha: 2532
open space: 12 028m²



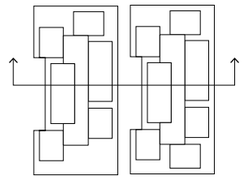
8 m
tertiary road

4 m
public corridor

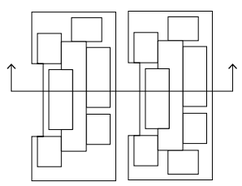
4.6 m
pull-off zone

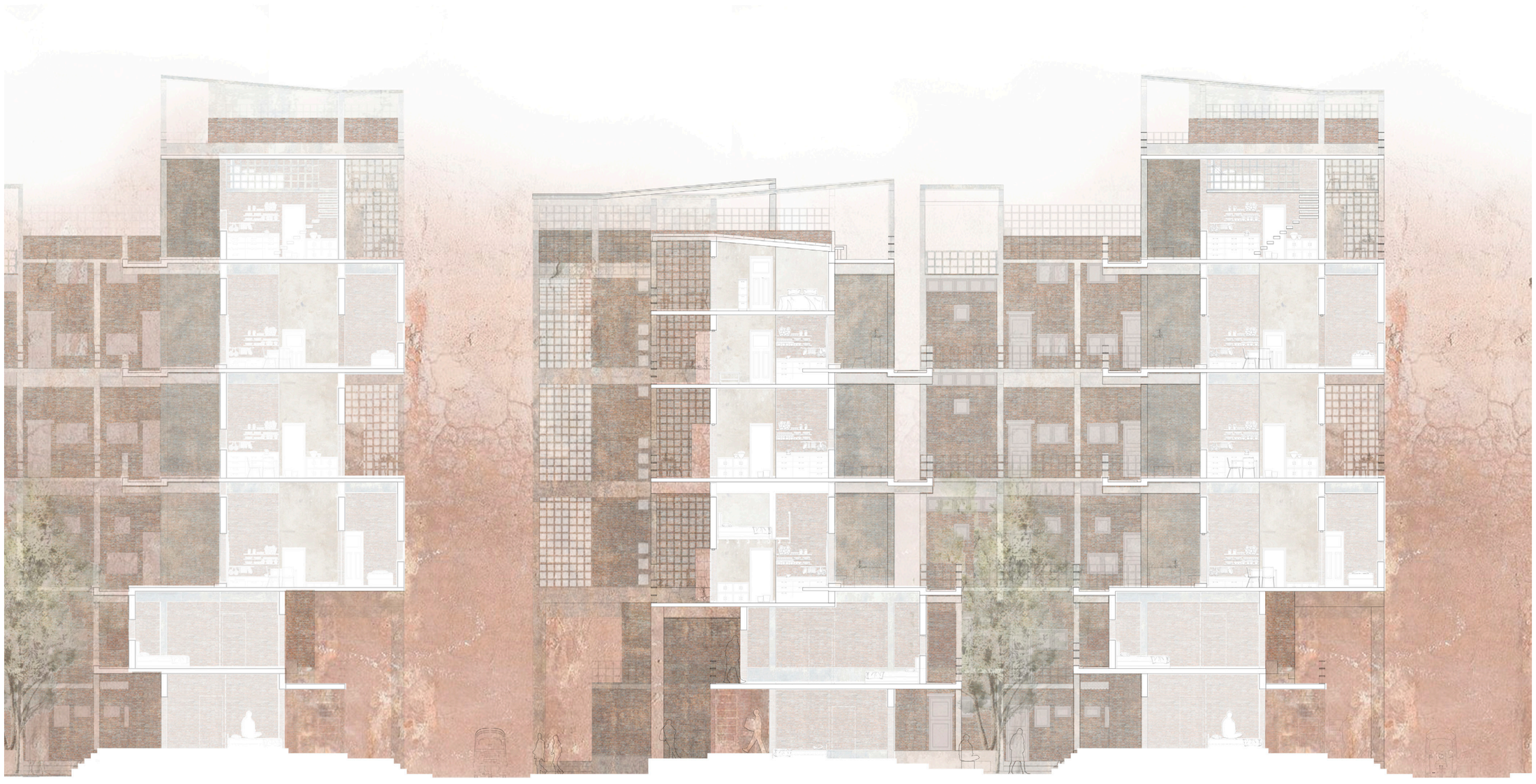
3 m
domestic corridor

4 m
public corridor

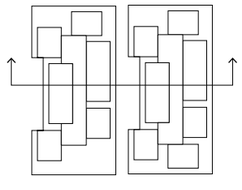


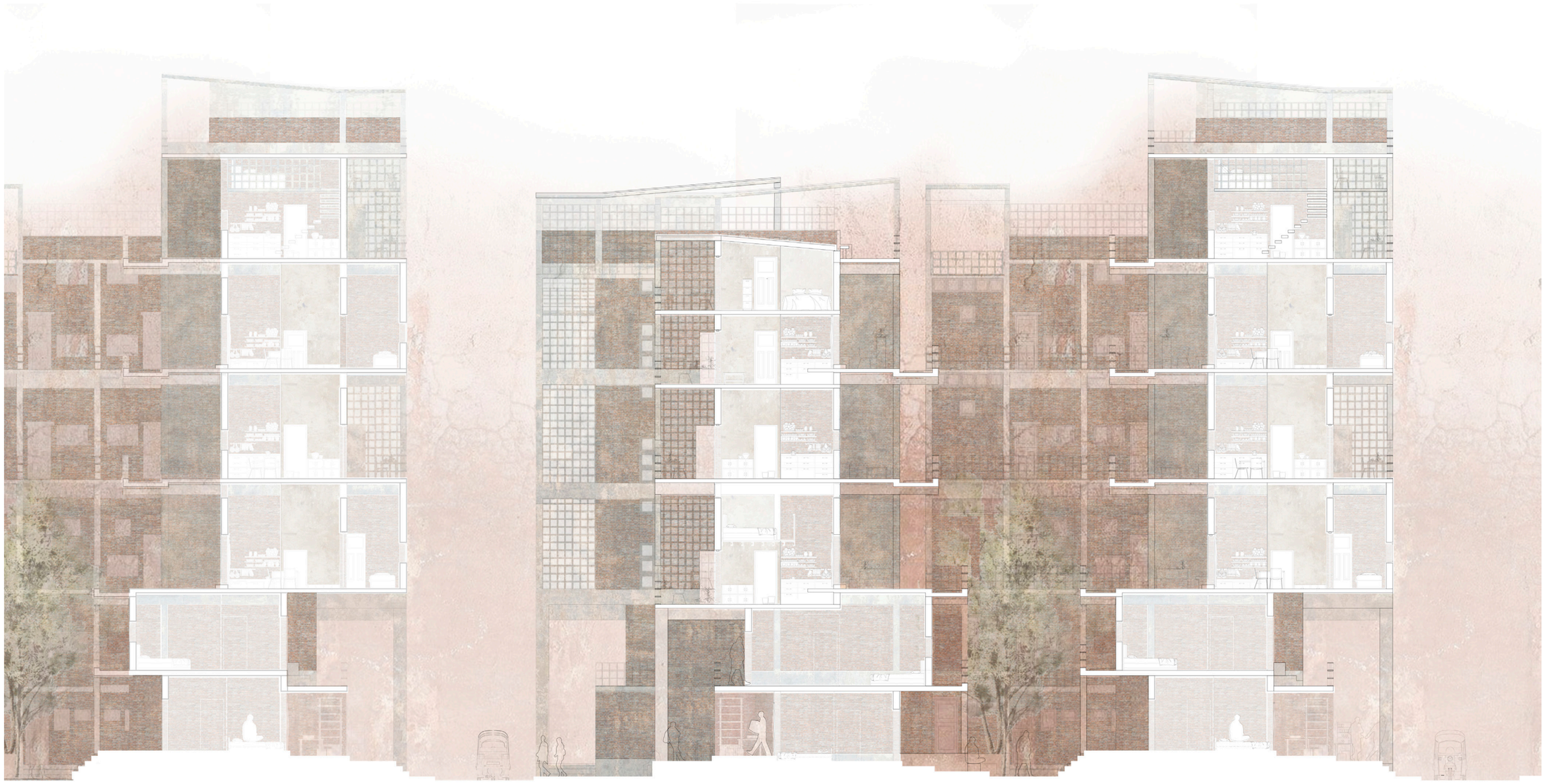
domestic corridor



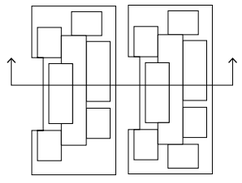


public corridor with pull-over zone



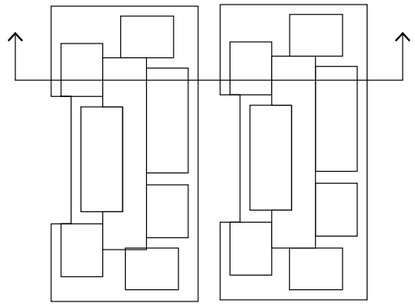


domestic corridor



domestic corridor - as-built

domestic corridor - as-built

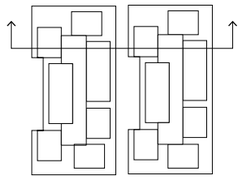


8 m
tertiary road

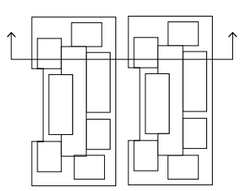
4 m
public corridor

8 m
domestic courtyard

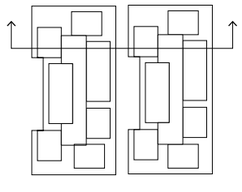
4 m
public corridor



public corridor and domestic corridor

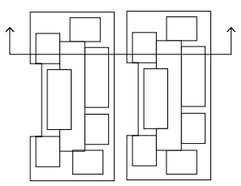


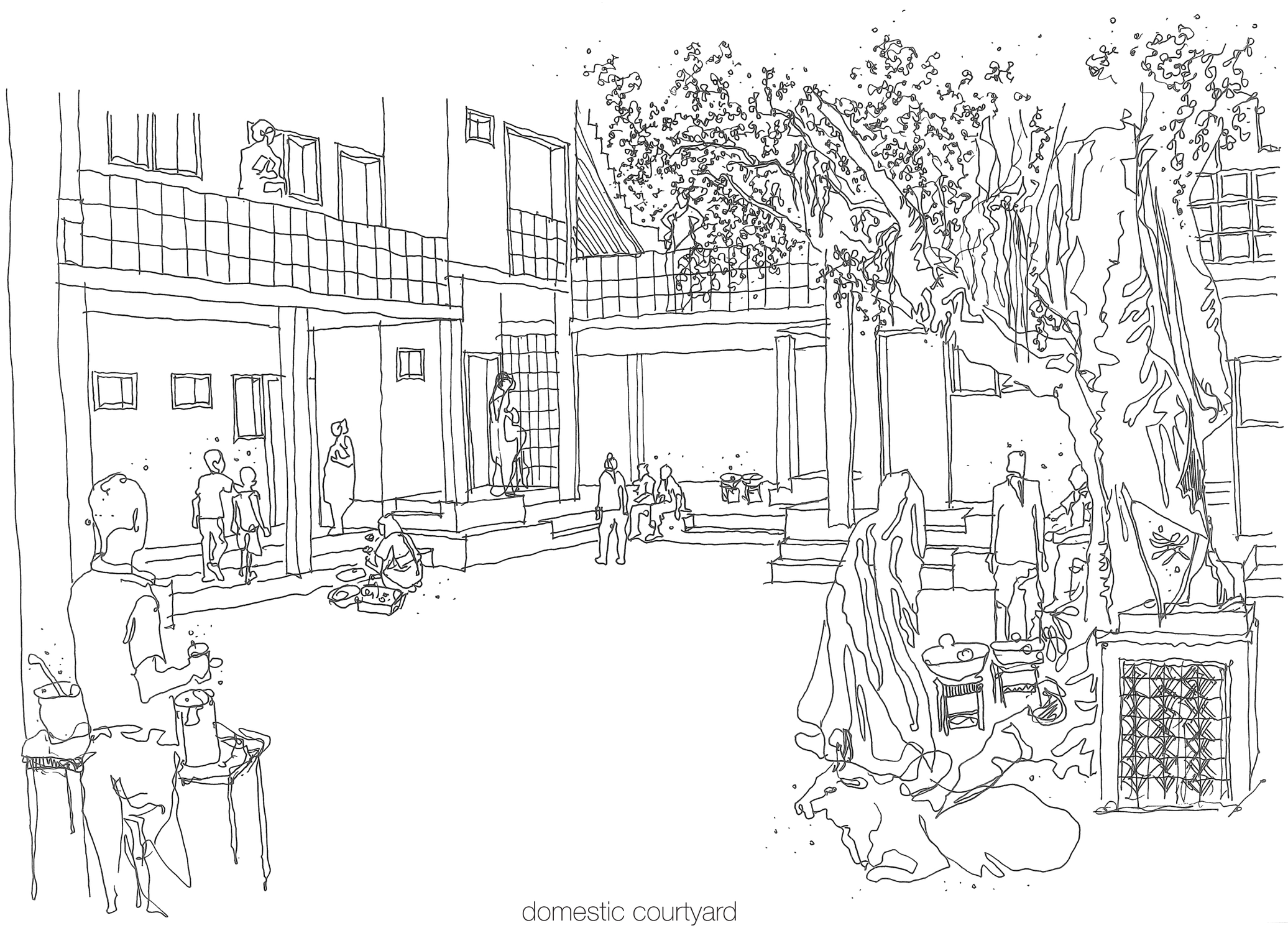
public corridor and domestic corridor



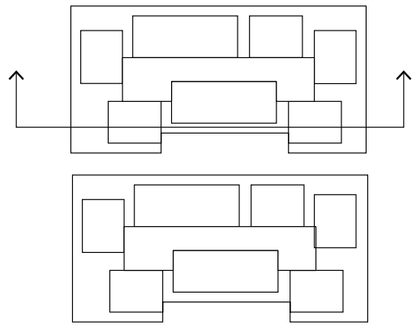
public corridor

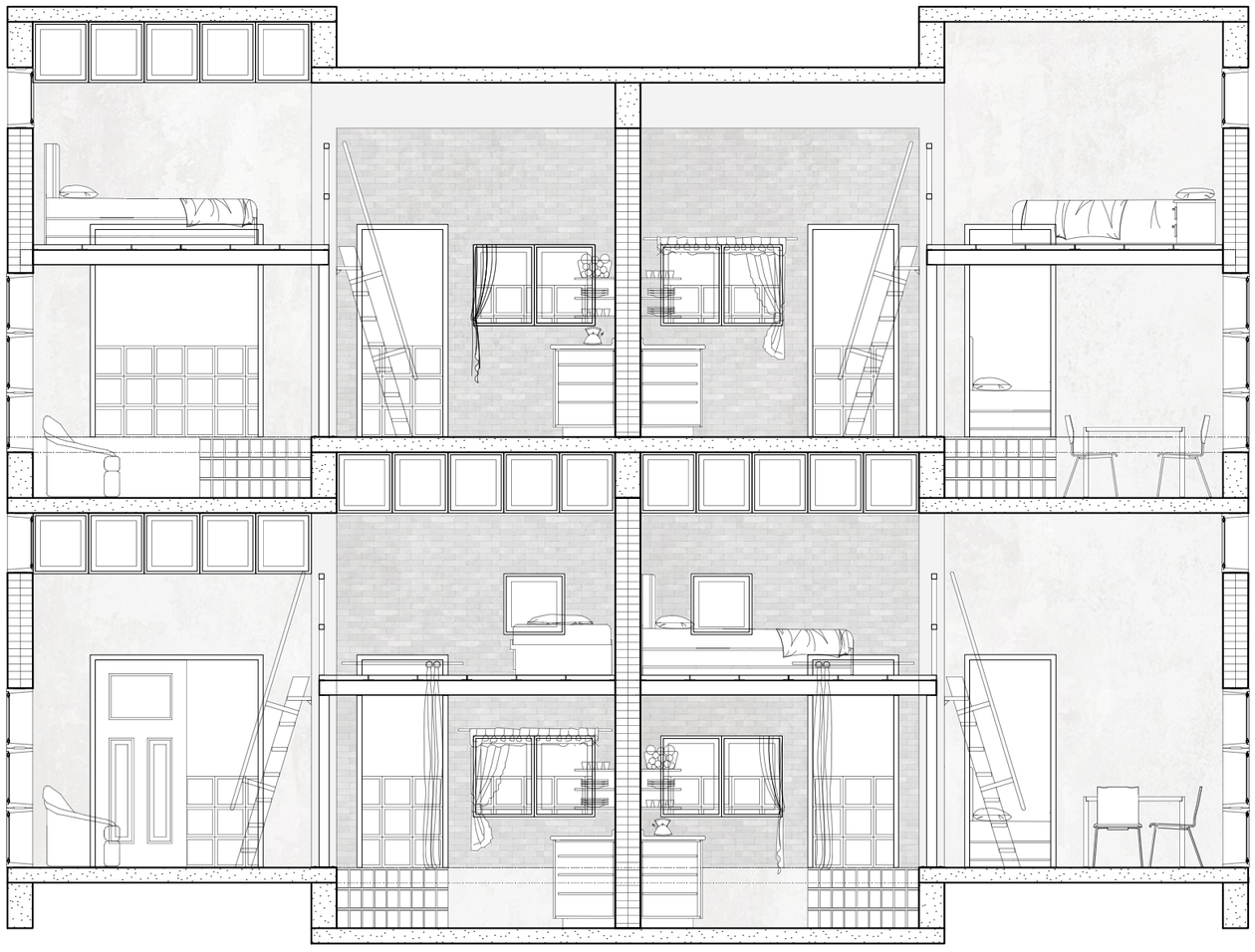
domestic courtyard

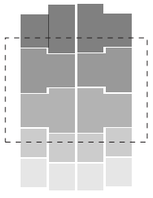




domestic courtyard

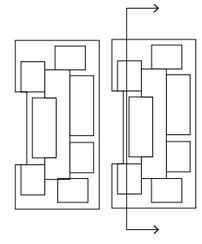


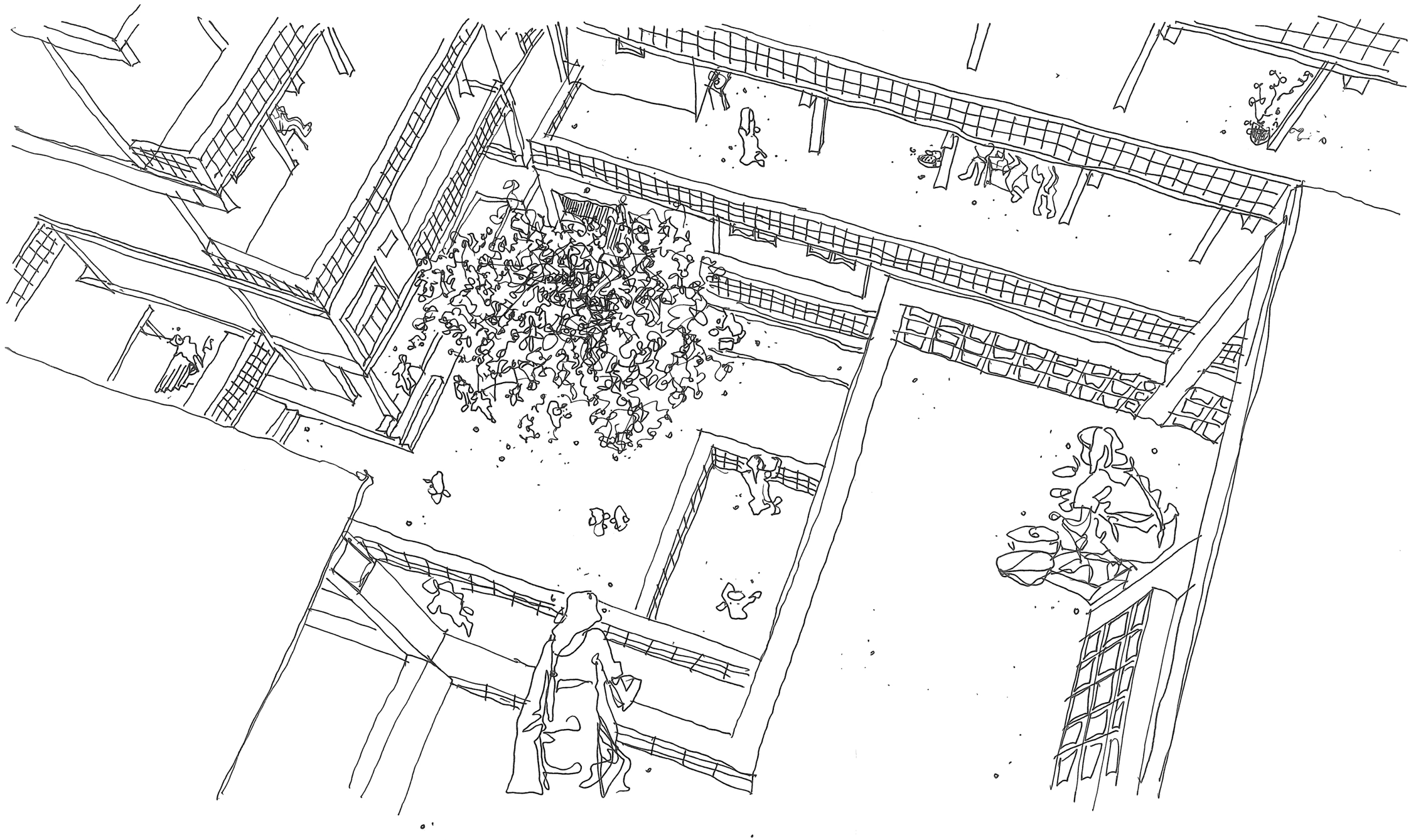




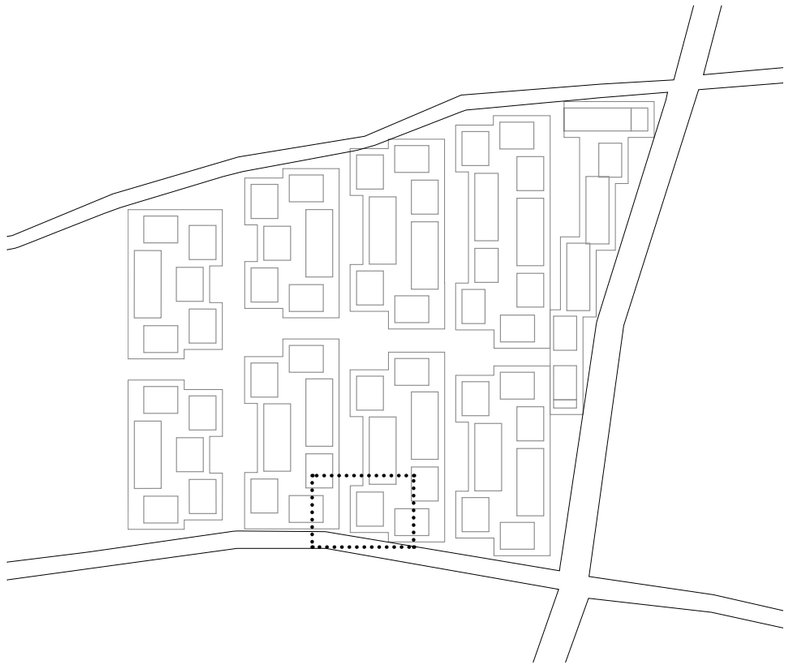
typical unit section

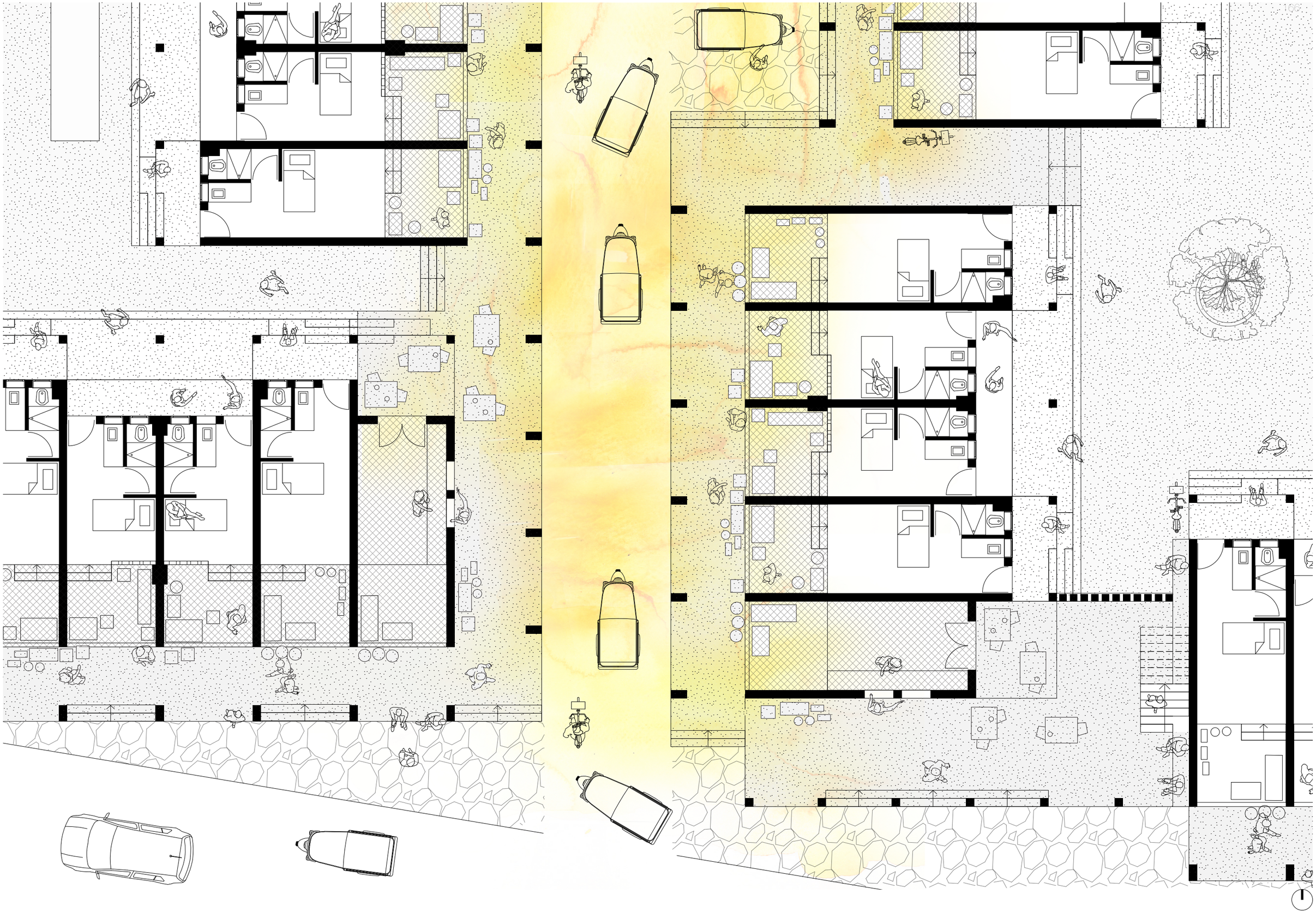
pull-over zone along public corridor

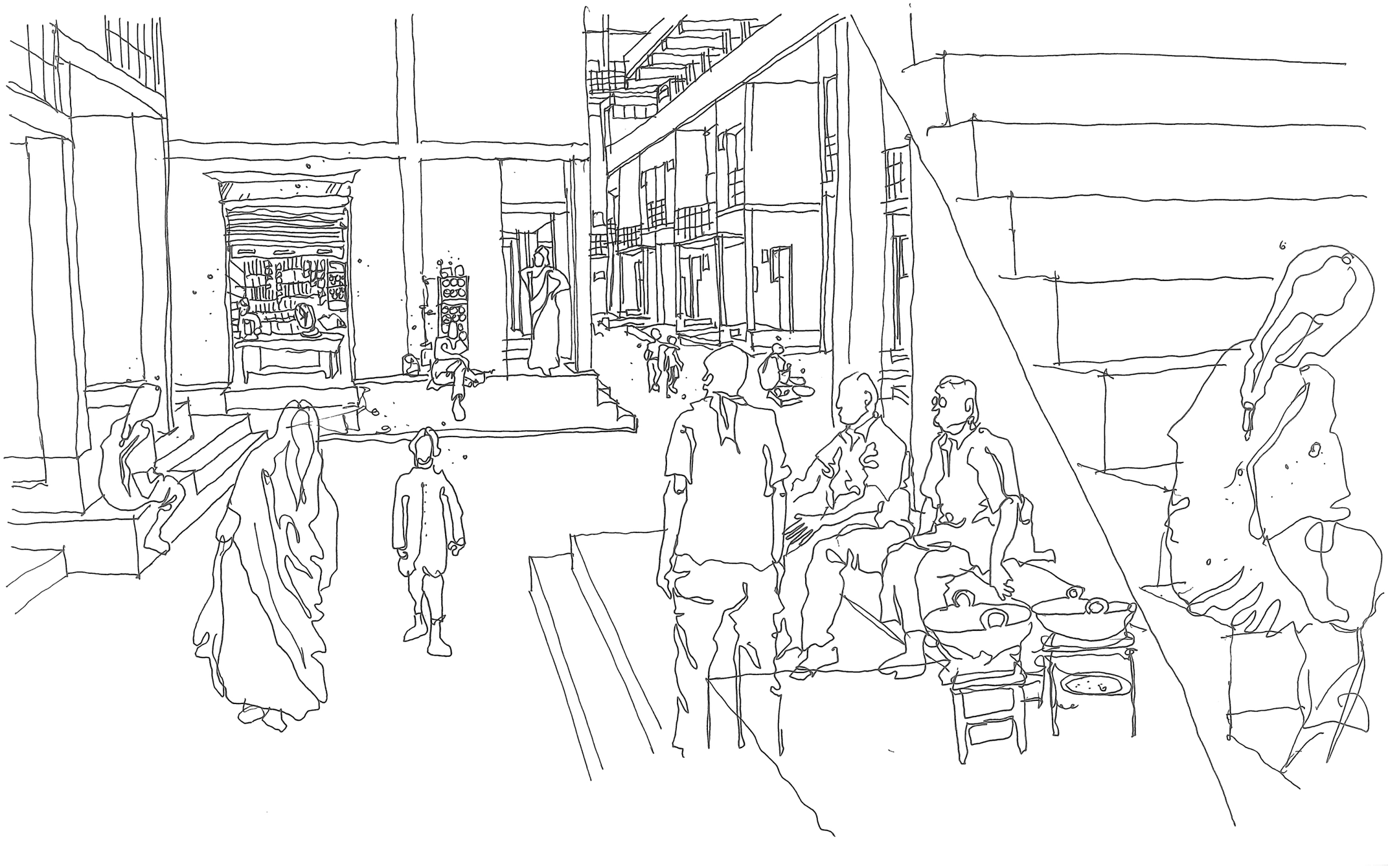




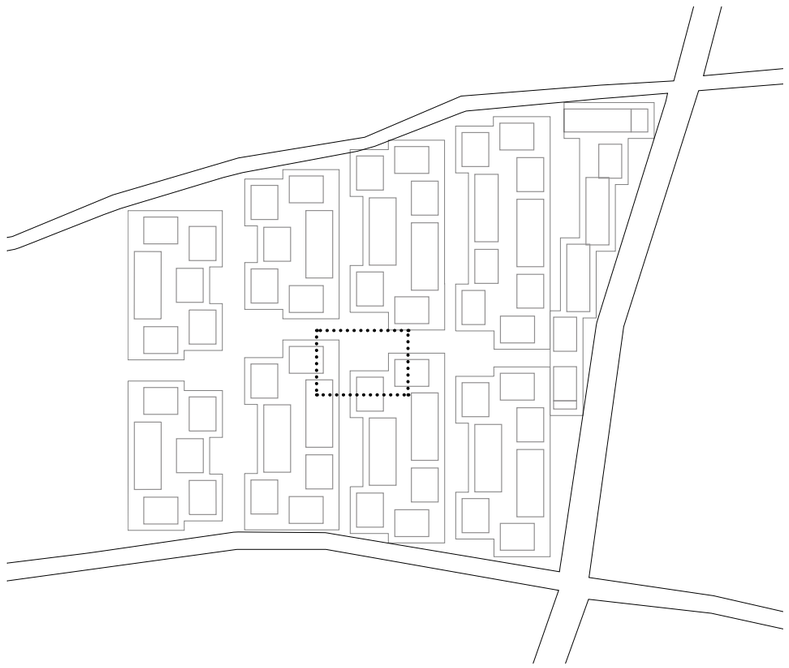
public courtyard

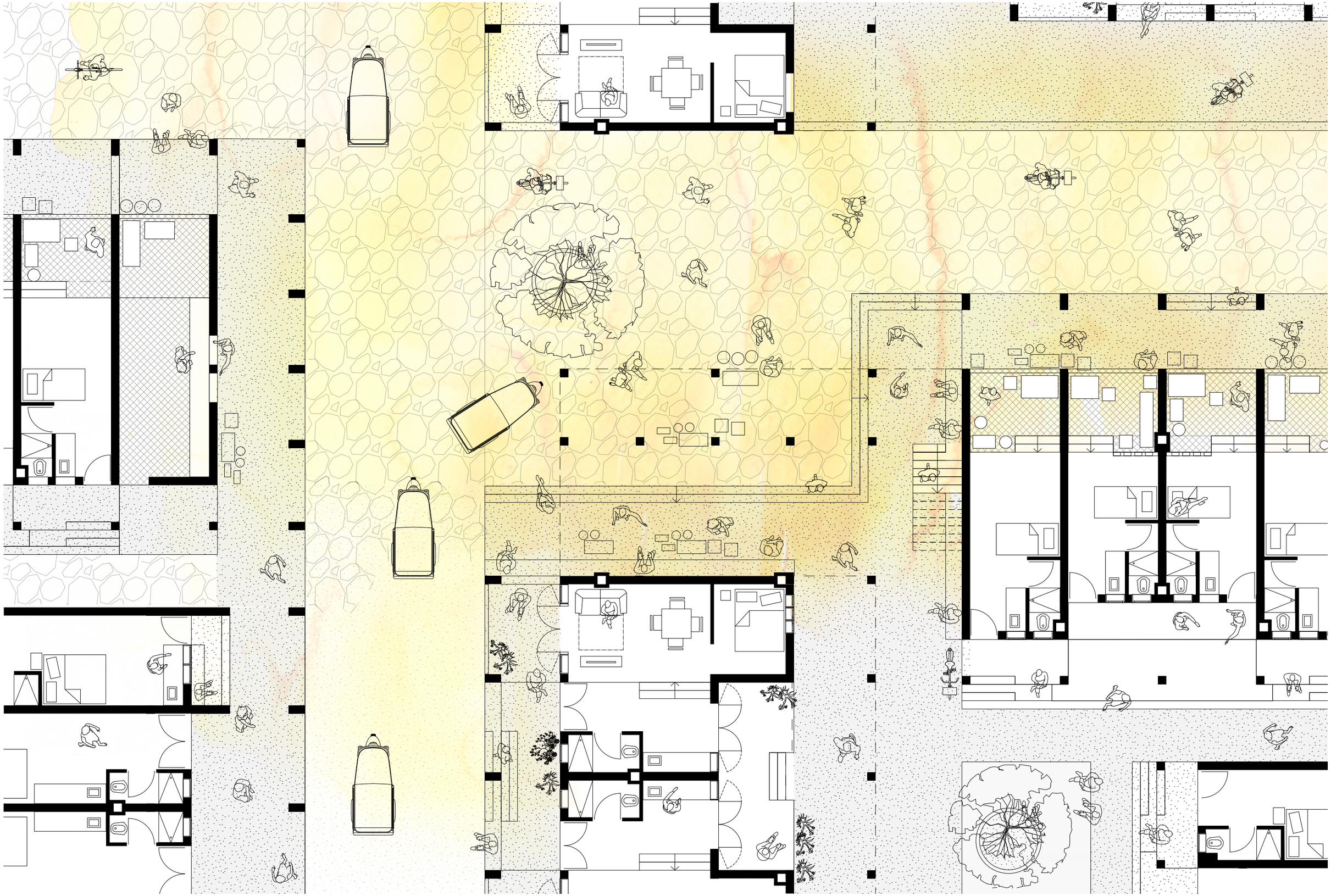


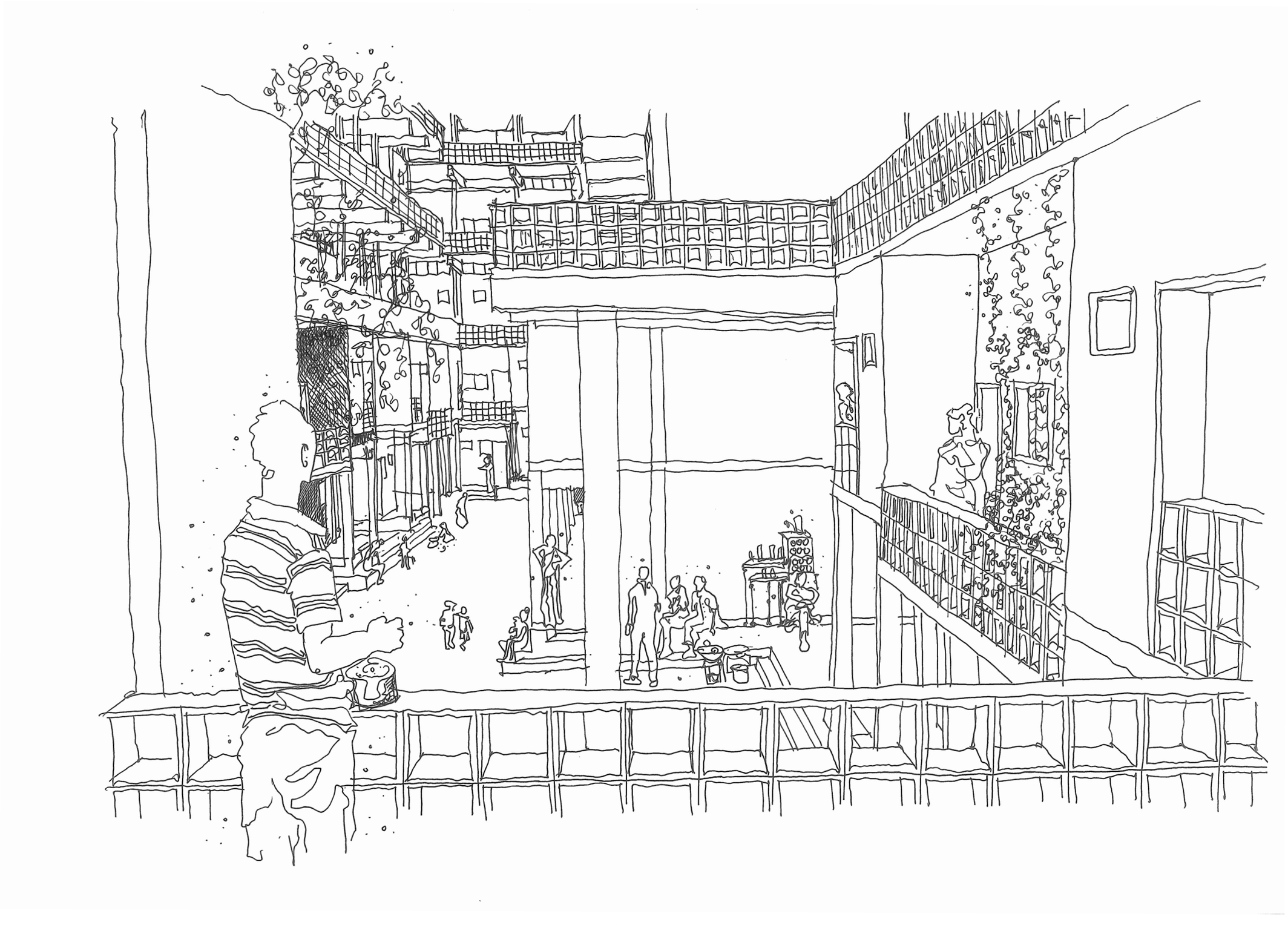




cluster access from secondary road







cluster access point via community spine

community spine and public corridor intersection

community spine and public corridor intersection