

A FRUITFUL BORDER

P5 June 28th 2017 | Anne van der Meulen 4076567 Tutors: Nelson Mota, Dick van Gameren, Anteneh Tola and Steven Steenbruggen

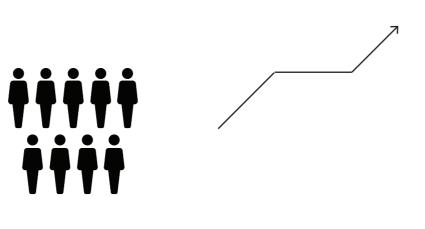


Content

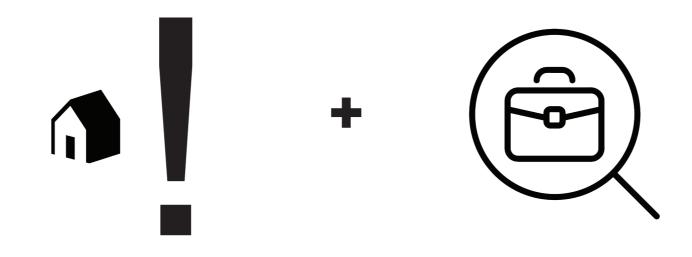
Problem statement Research question Location Strategy Design Rethinking the current systems of affordable housing production in the global urban south.

Dwelling | Global housing studio



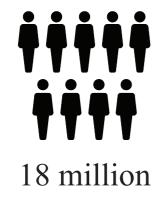


Population growth global urban south

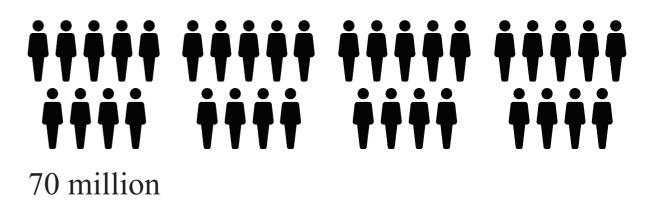


Housing shortage and growing demand for employment

2014



2050



Growing urban population Ethiopia

United Nations (2014). World Urbaniation Prospects. Highlights. p. 20. United states, New York: United Nations.



The half Italian lady

Addis Ababa | Rapid growth

http://i.huffpost.com/gadgets/slideshows/345705/slide_345705_3620893_free.jpg

STATEMENT. **有些过的第三**

言語は相関目

建筑过程的图

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Slum city settlements

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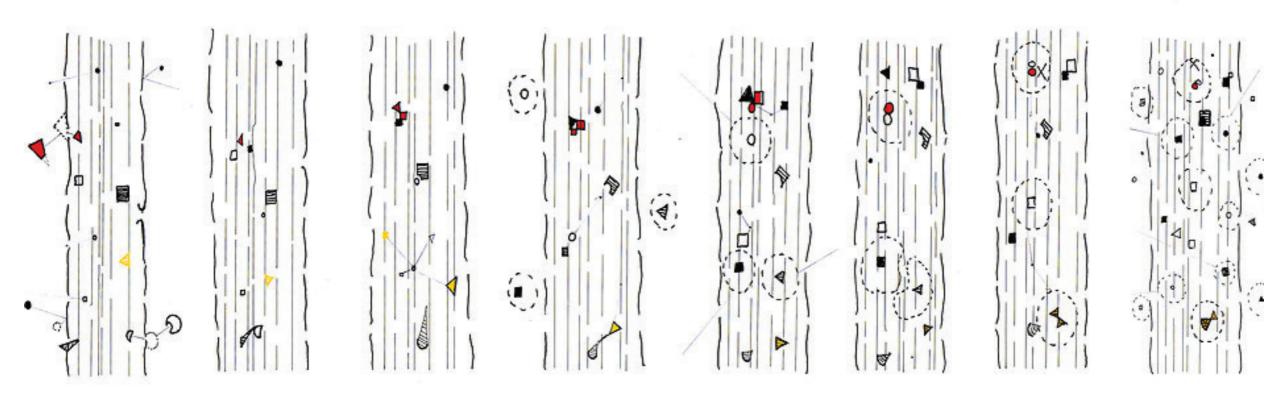


Demolition by the government

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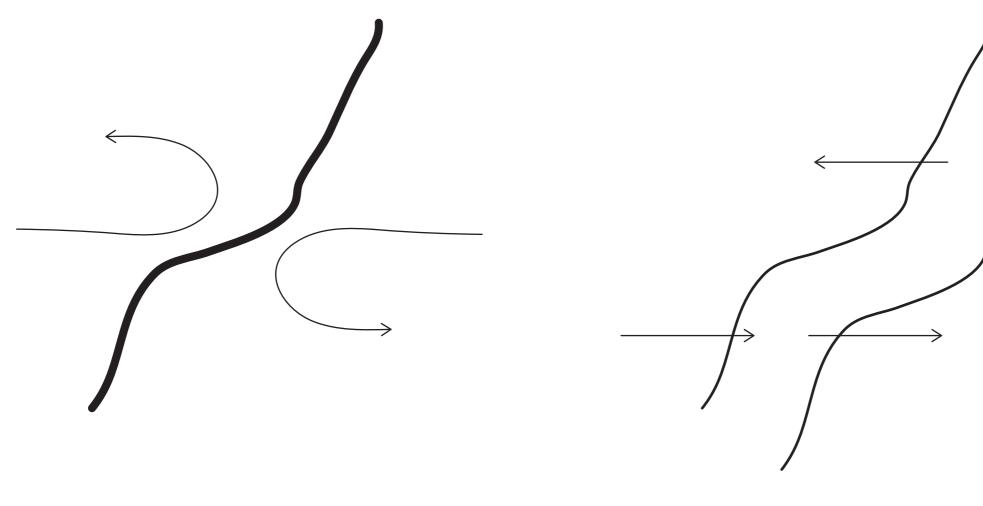




A border like a cell membrane

Theories of Richard Sennett - The open city

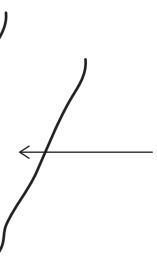
https://thesleepofrigour.files.wordpress.com/2014/06/vu-hoai-nam.jpg



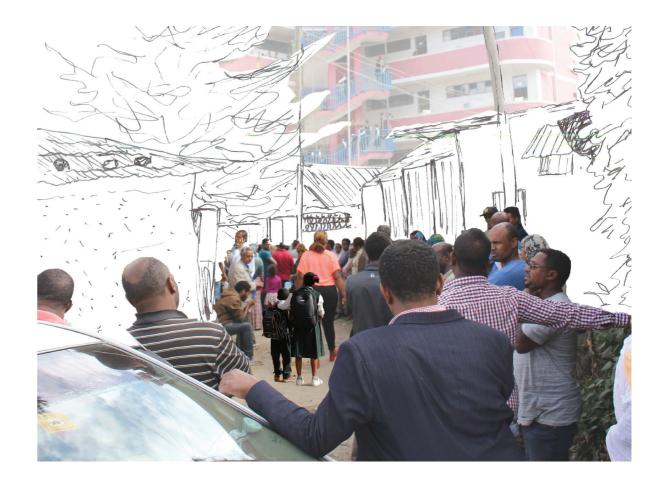
STOP

Open for human exchange

Boundaries vs borders







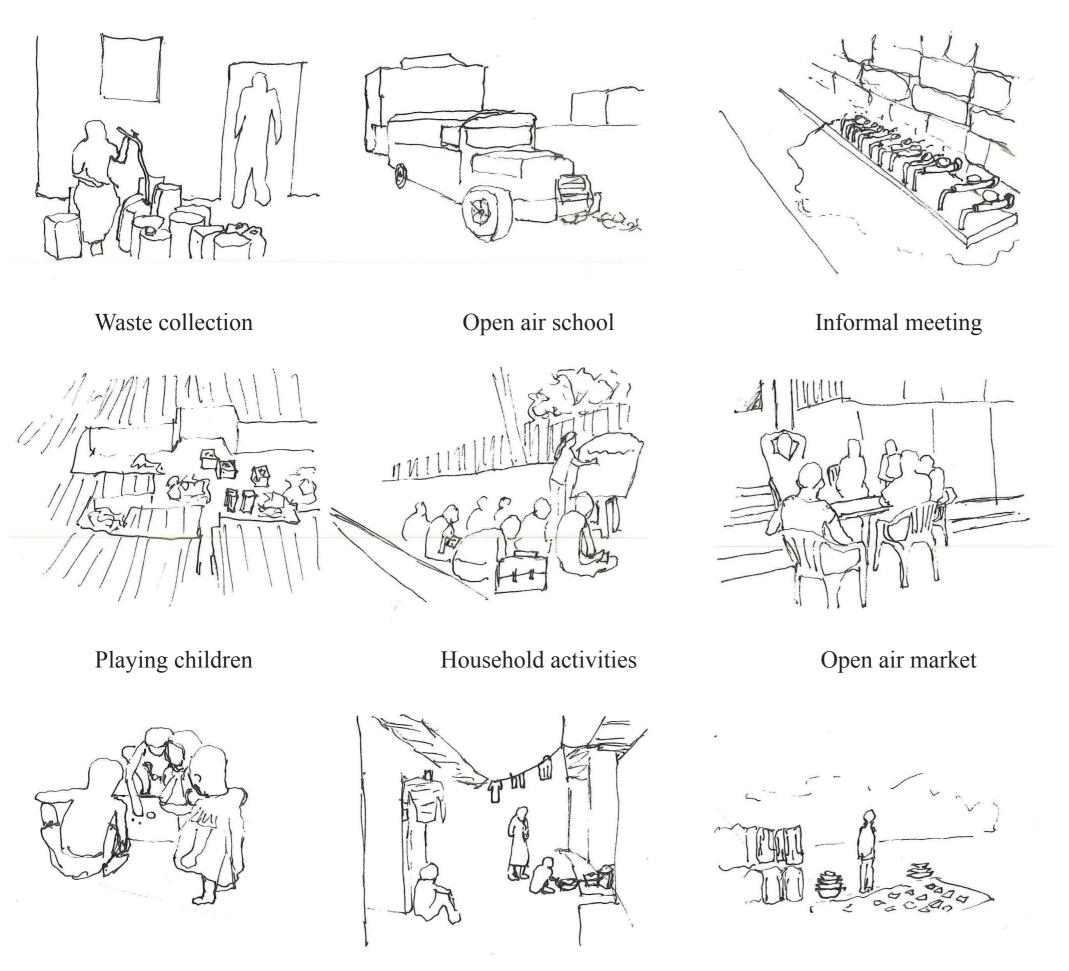
Economical exchange

Social exchange

Open for human exchange

Water vendor

Entering traffic



Slum city activities | Different articulations



Street vendor



Food preperation



How can an affordable housing scheme in Addis Ababa be an open border that generates economic and social exchange?

And how can this scheme respond to the topography and the future plans of the government?

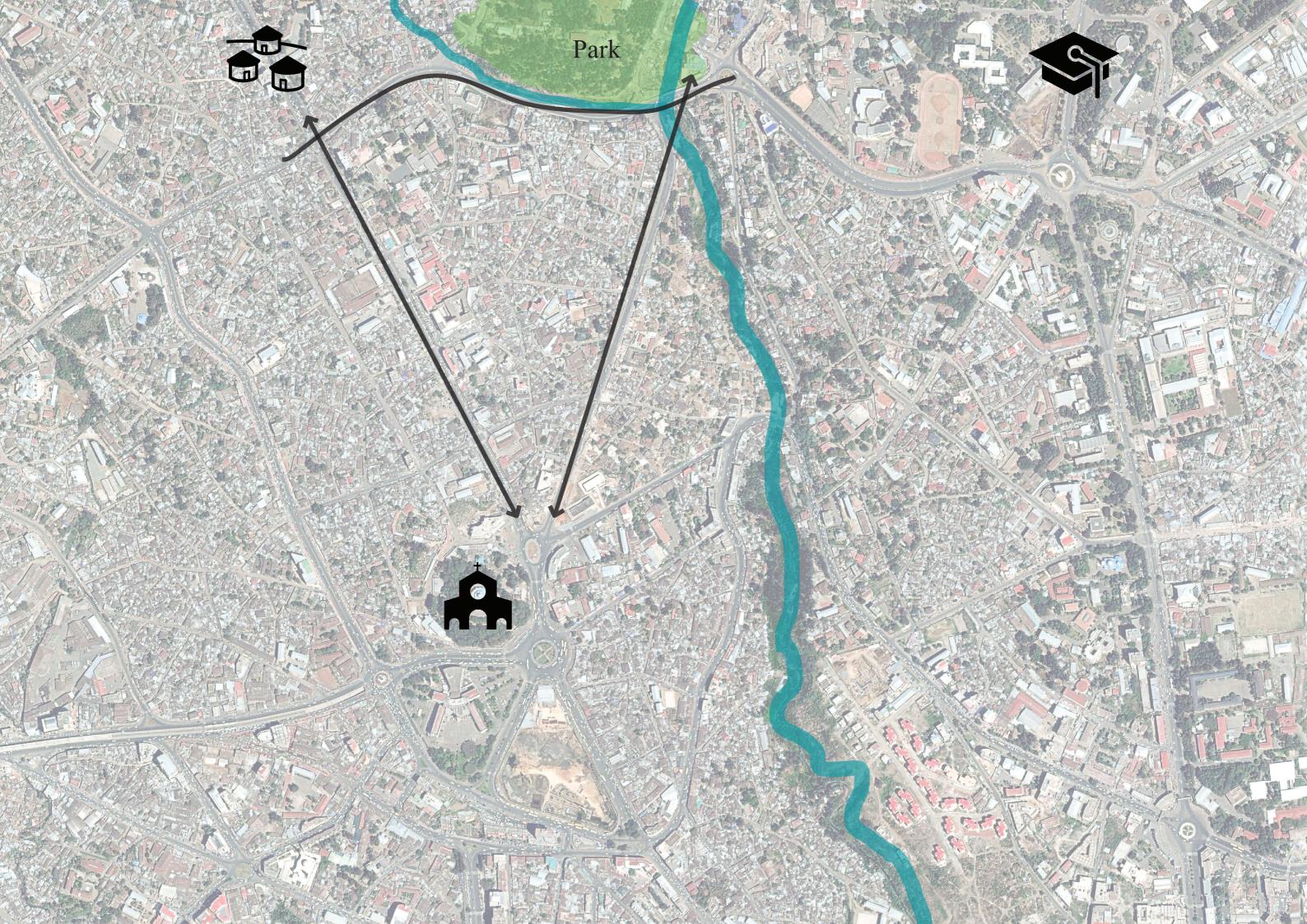
Sefer = Neighbourhood

Research question



Location | Addis Ababa, Ethiopia





Sint George cathedral Addis Ababa

https://honeysun.files.wordpress.com/2009/02/2009-01-02_14-27-07-dmc-fx9.jpg







Highly developed | Ras palace



The Addis Ababa restaurant

Ras P

of Dejach Wube





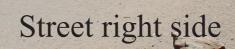
Demolition and starting developments



Demolition

Street right side

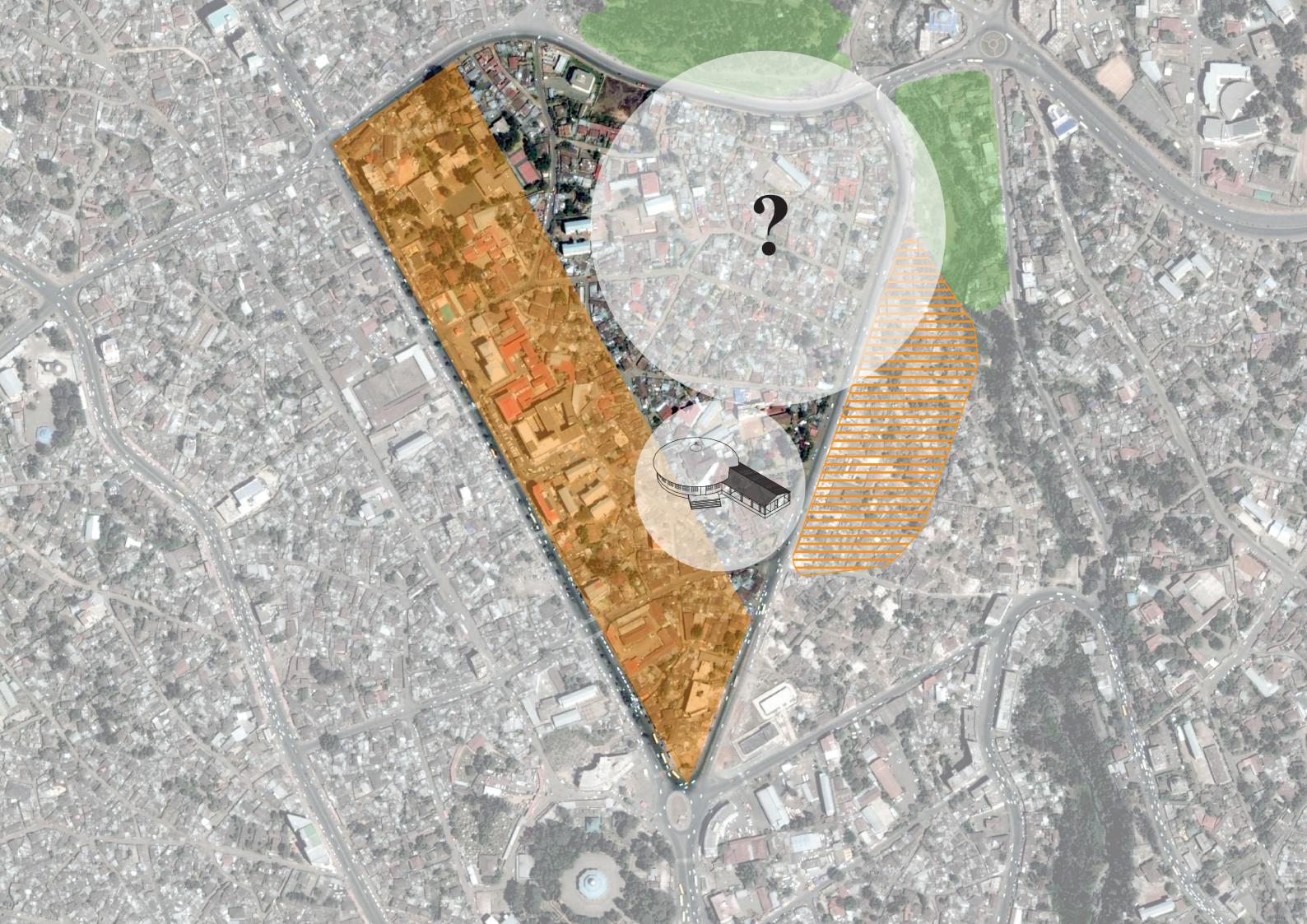




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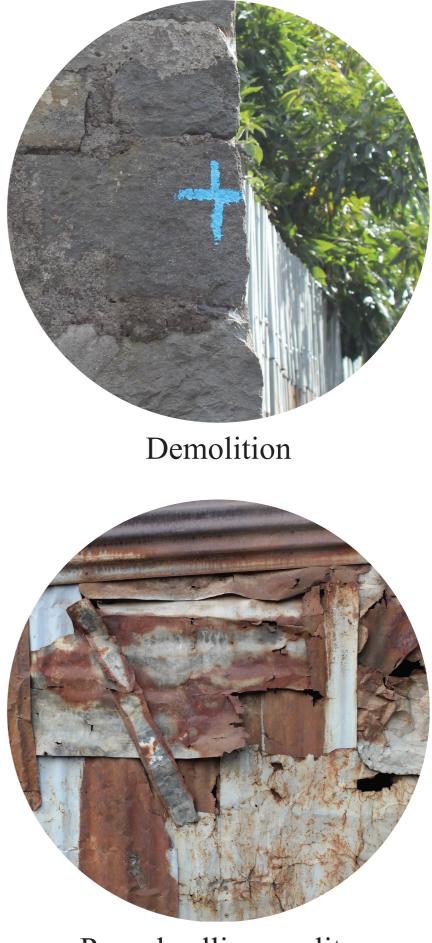






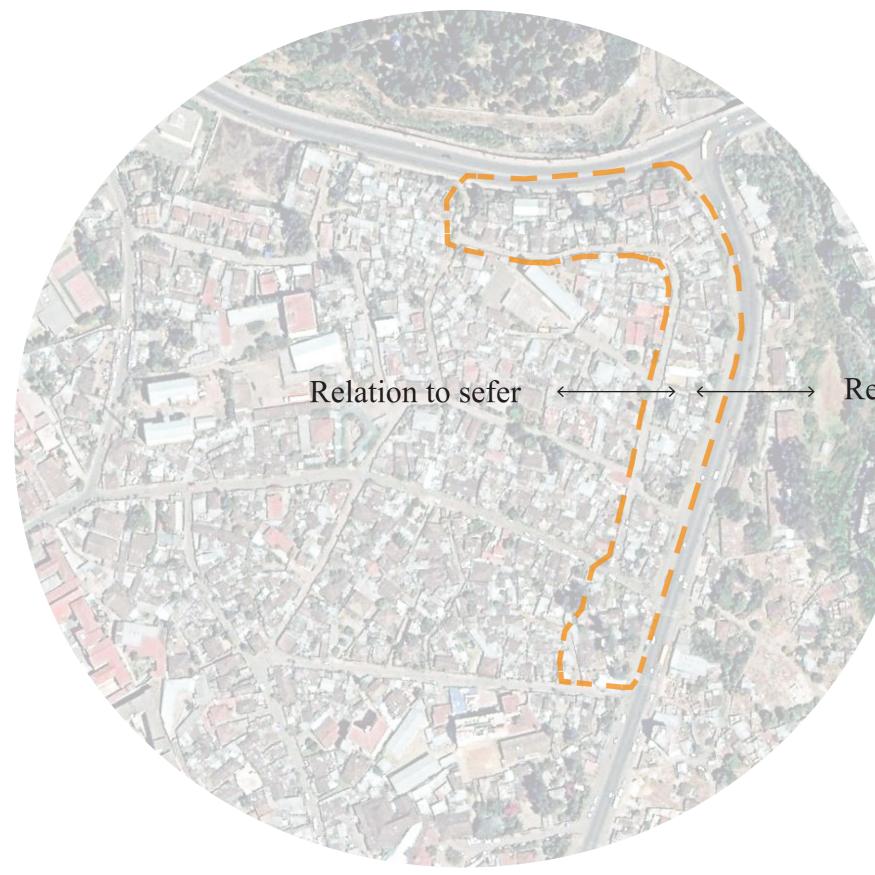
Atmosphere in the sefer





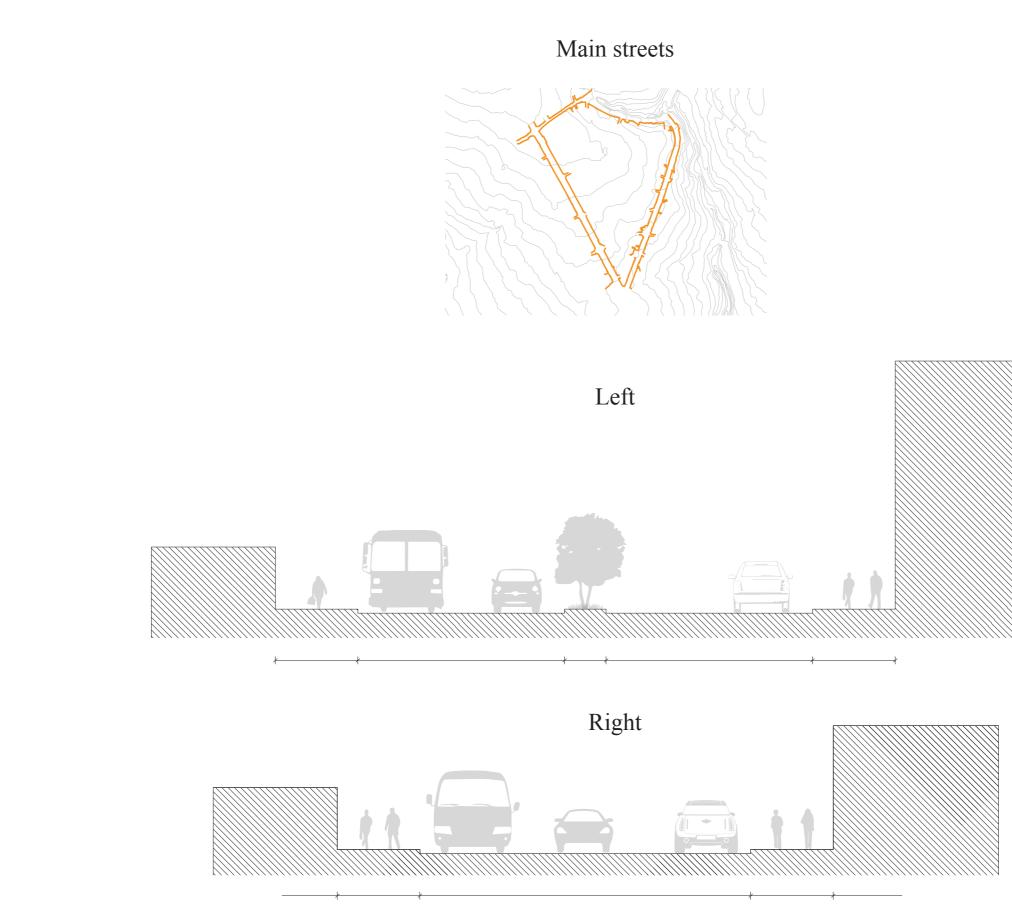
Site | Low quality dwellings

Poor dwelling quality



The border of the sefer

Relation to the main street

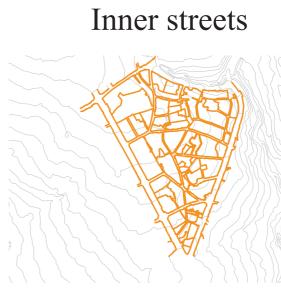


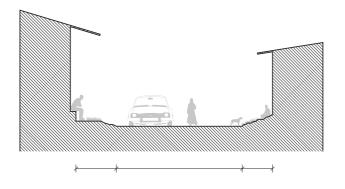
Different street sections

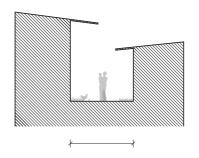


Secondary streets



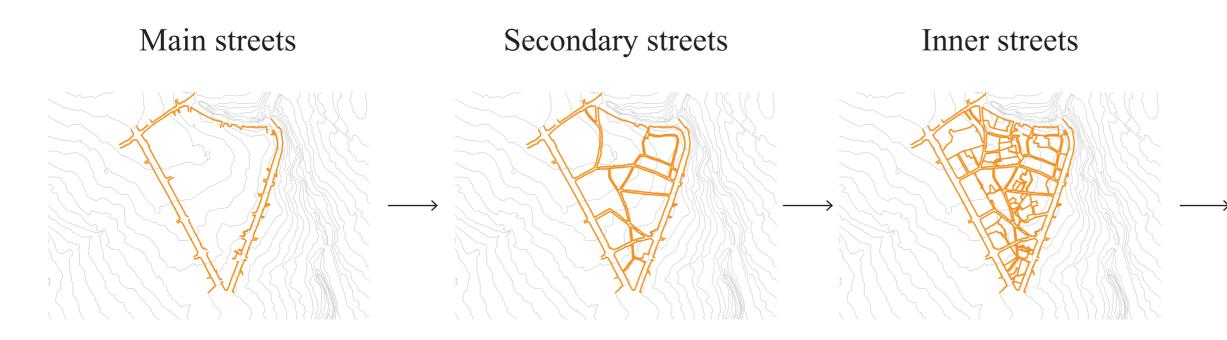






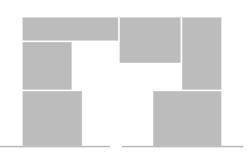
Small scale



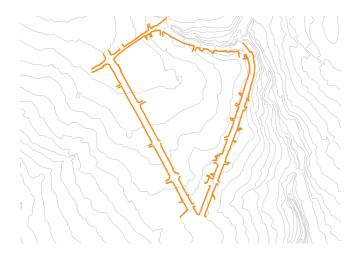


Sequence of publicness

Compound



Main streets



- Shops
- Taxi's
- Shadow places
- Workshops
- Street vendors

Secondary streets



- Shops
- Iddir
- Playing
- Workshops
- Household activities
- Drying herbs
- Picking up children
- Window shop
- Making Chicka
- Vegetable garden

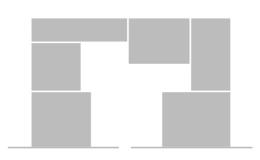
Inner streets



- Small shops
- Playing
- Workshops
- Household activities
- Drying herbs
- Vegetable garden
- Water source
- Outdoor living space

Different streets host different activities

Compound



- Playing
- Household activities
- Drying herbs
- Vegetable garden
- Outdoor living space
- Cooking
- Washing
- Drinking coffee
- Weddings/funerals



Main streets



Secondary streets

Different streets host for different activities

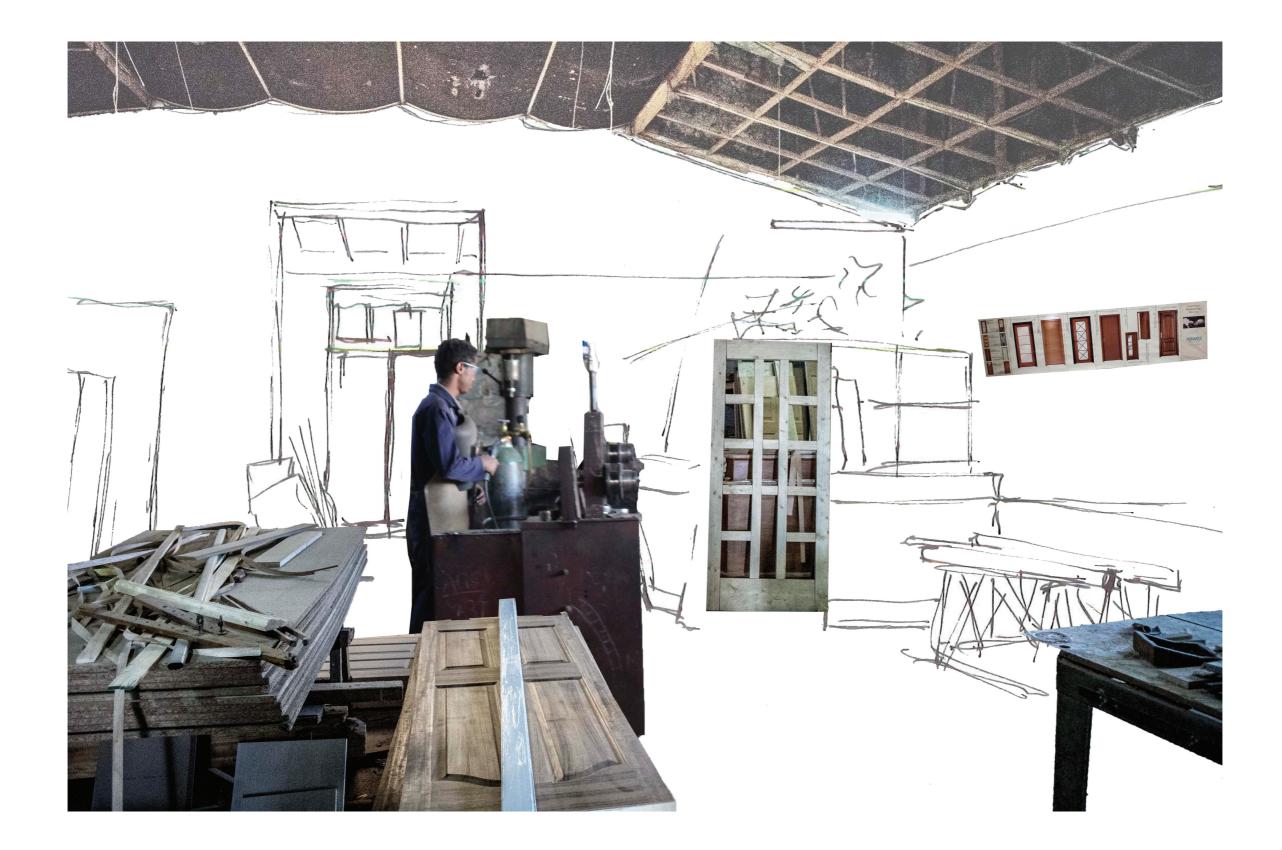


Inner streets

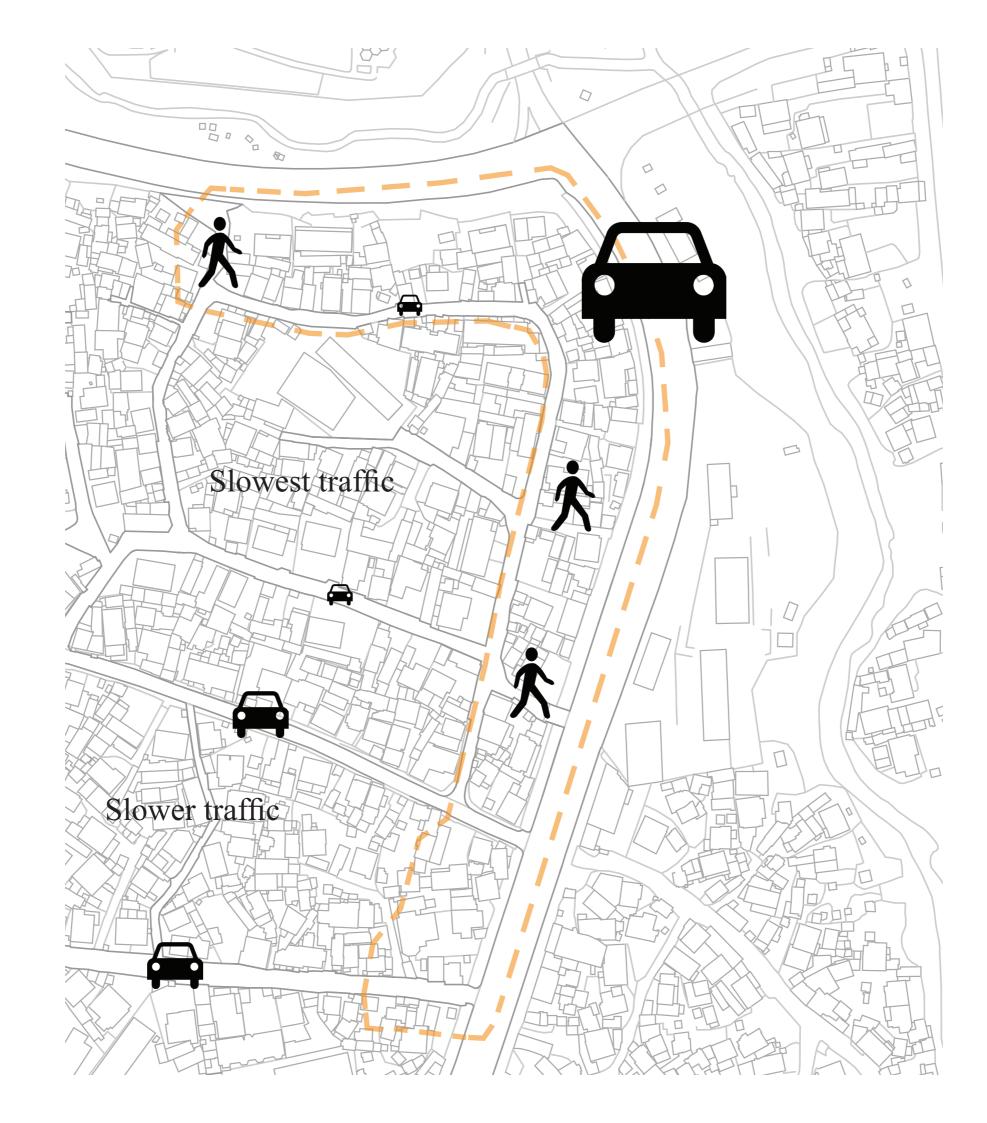


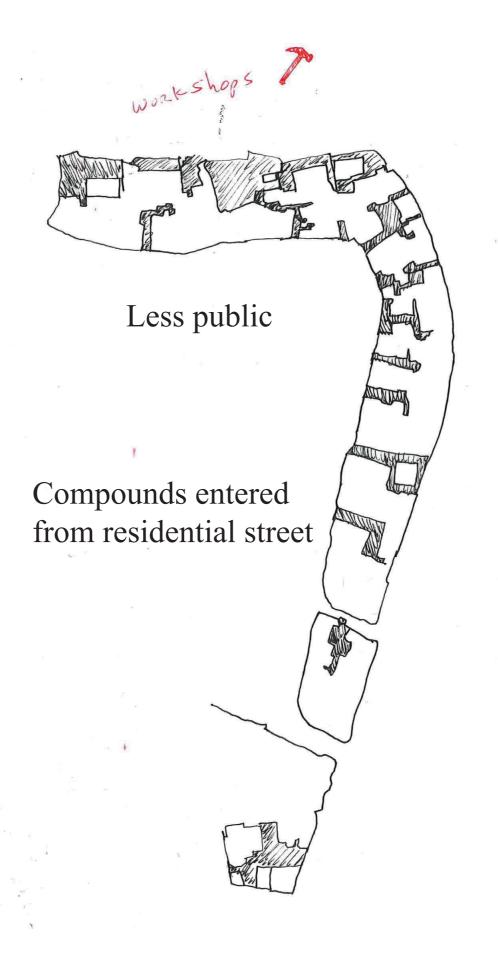
Compound

Different streets host for different activities



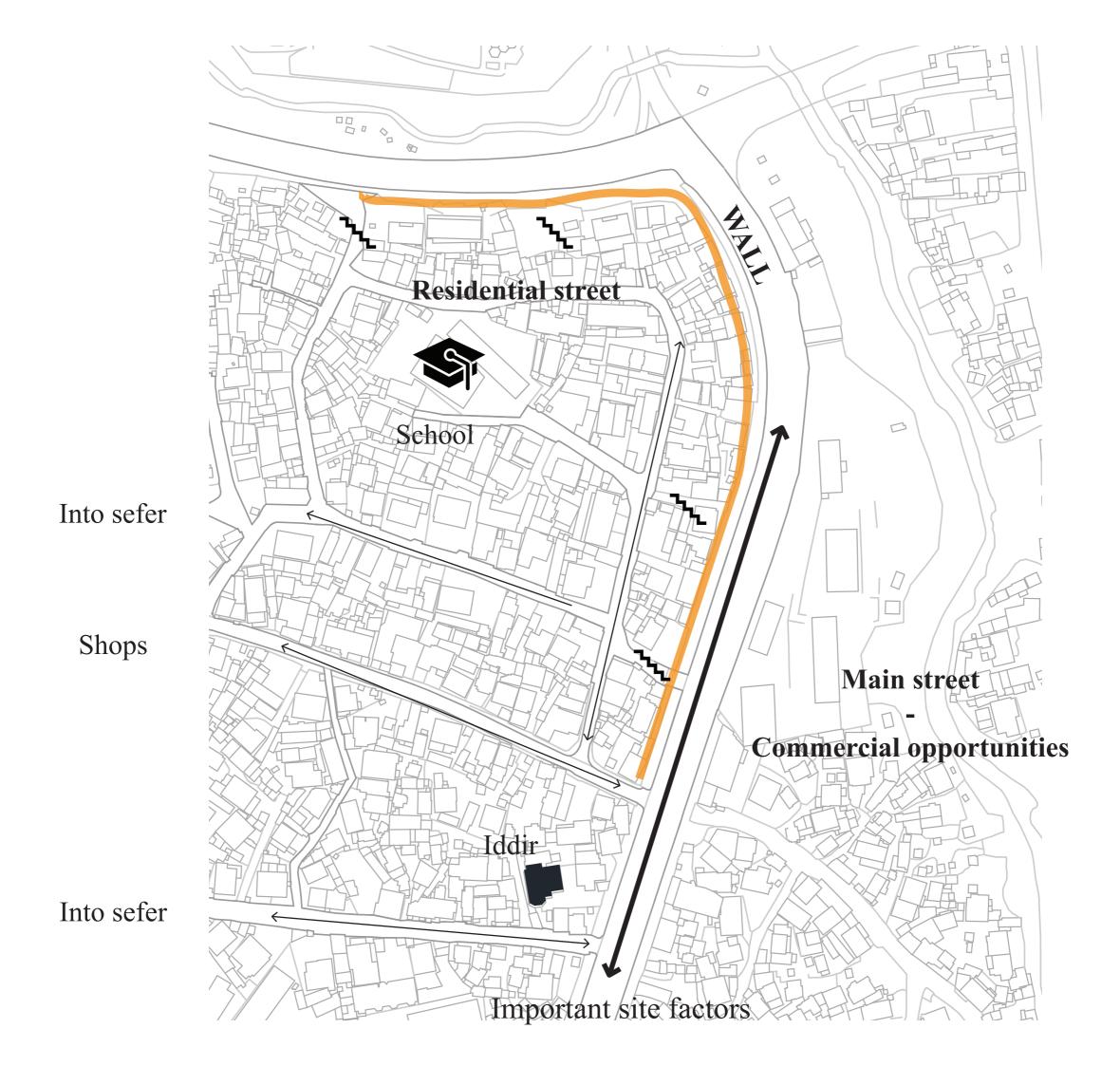
Workshops, in different types of streets





Public

Situation now





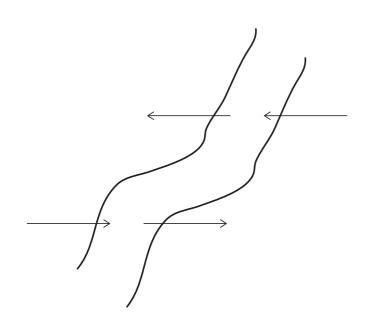
The wall | Deal with the topography





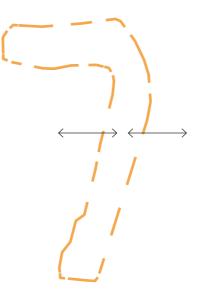
Open border

- Economic exchange
- Social exchange



Future developments

- The developing city
- The changing street



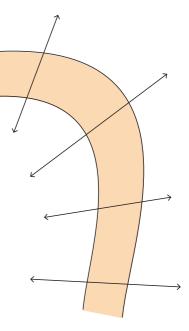
Focus of the design

The topography

The wallTopography

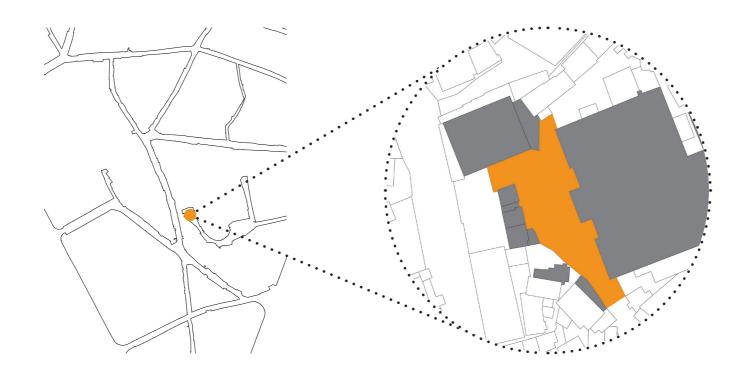






The membrane

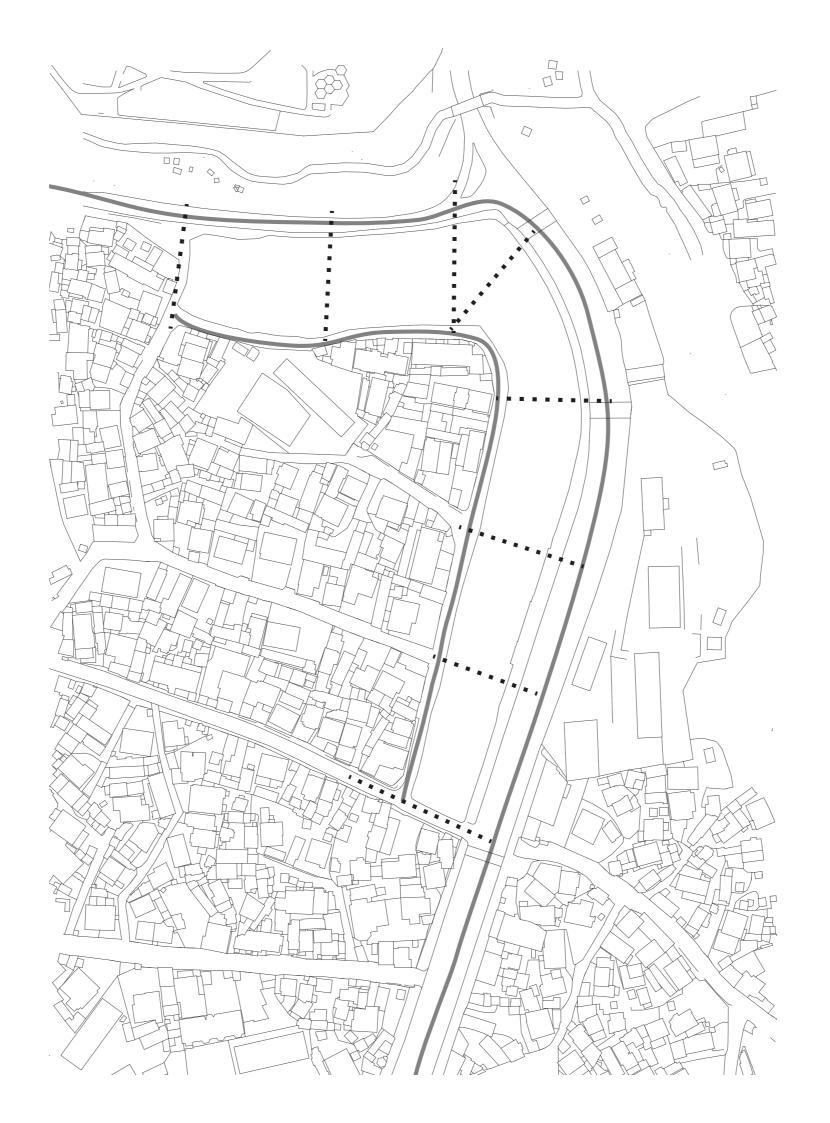




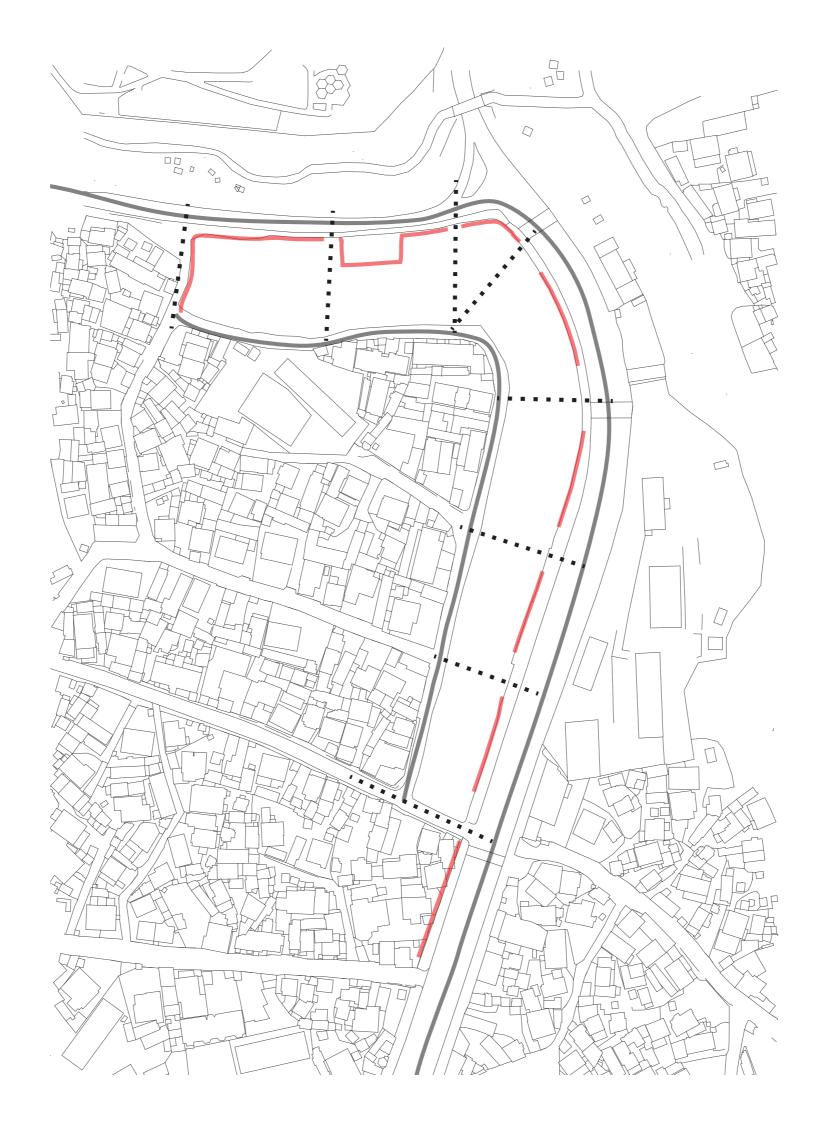
Ex chef Addis Ababa restaurant

The design

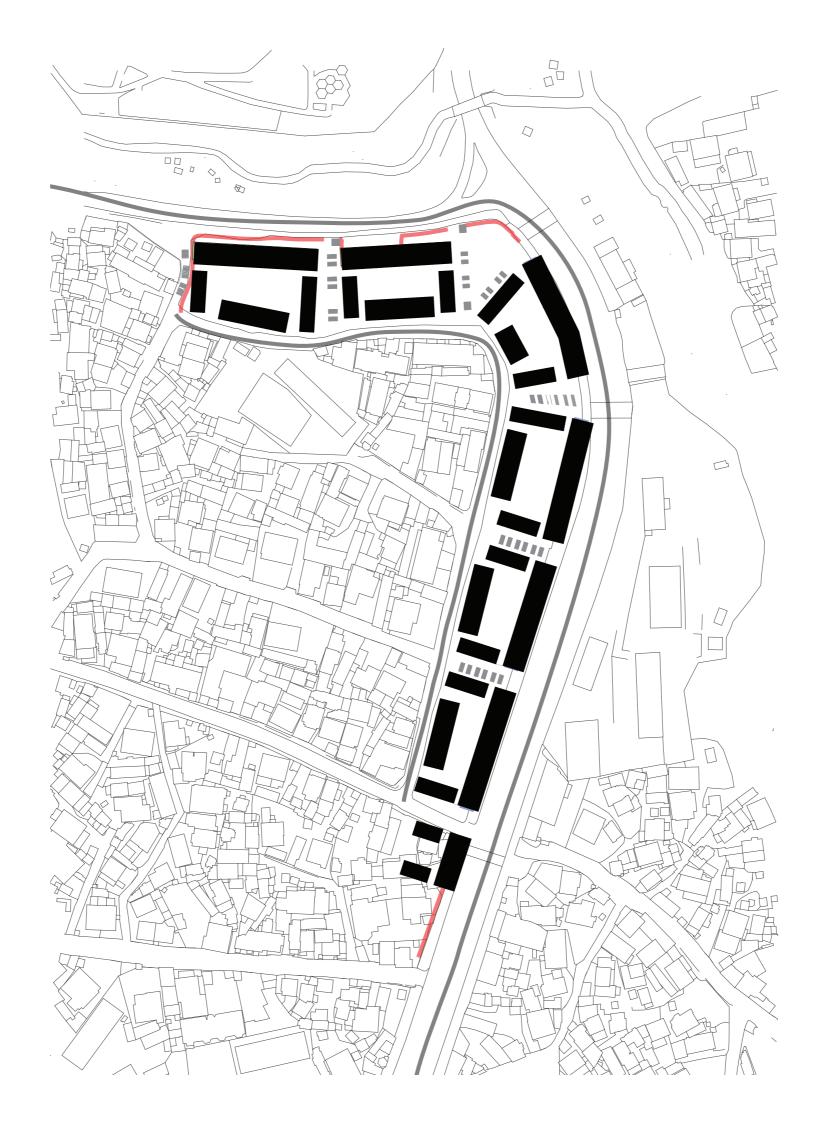


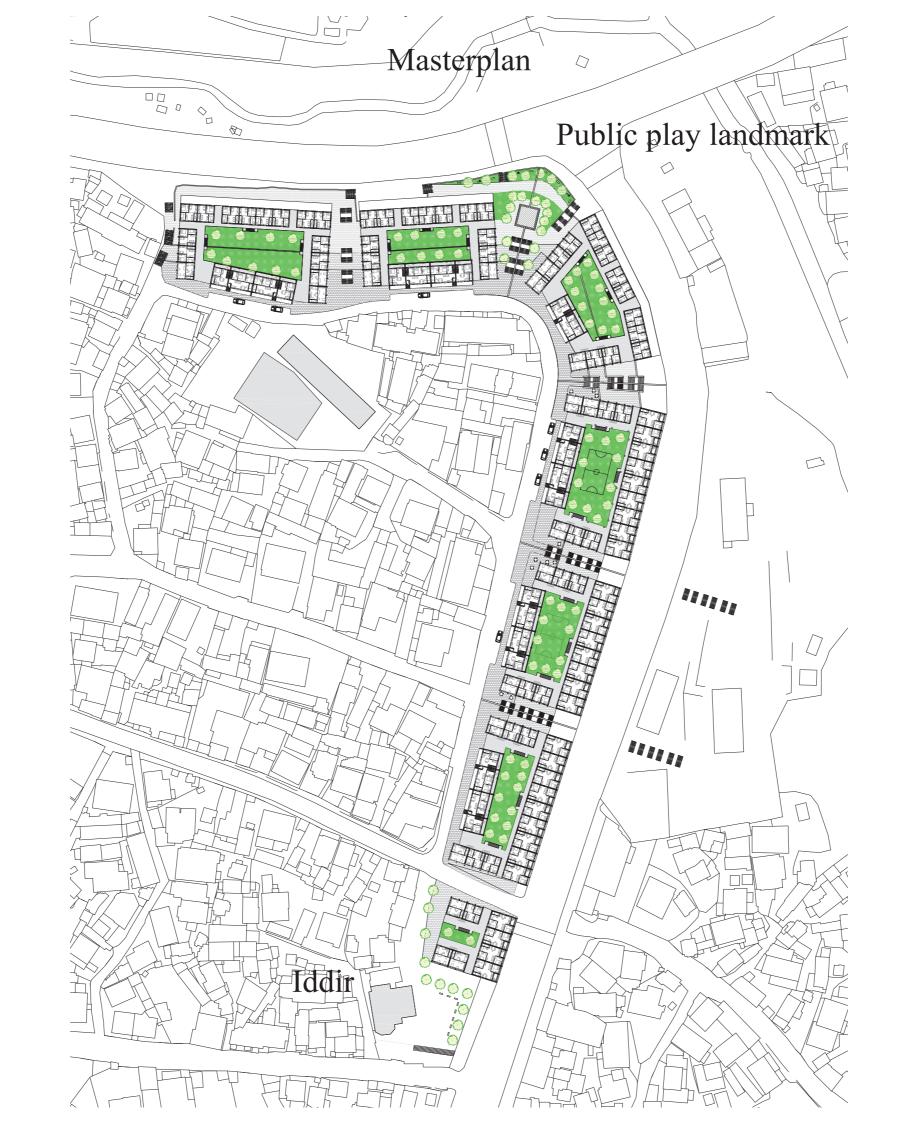


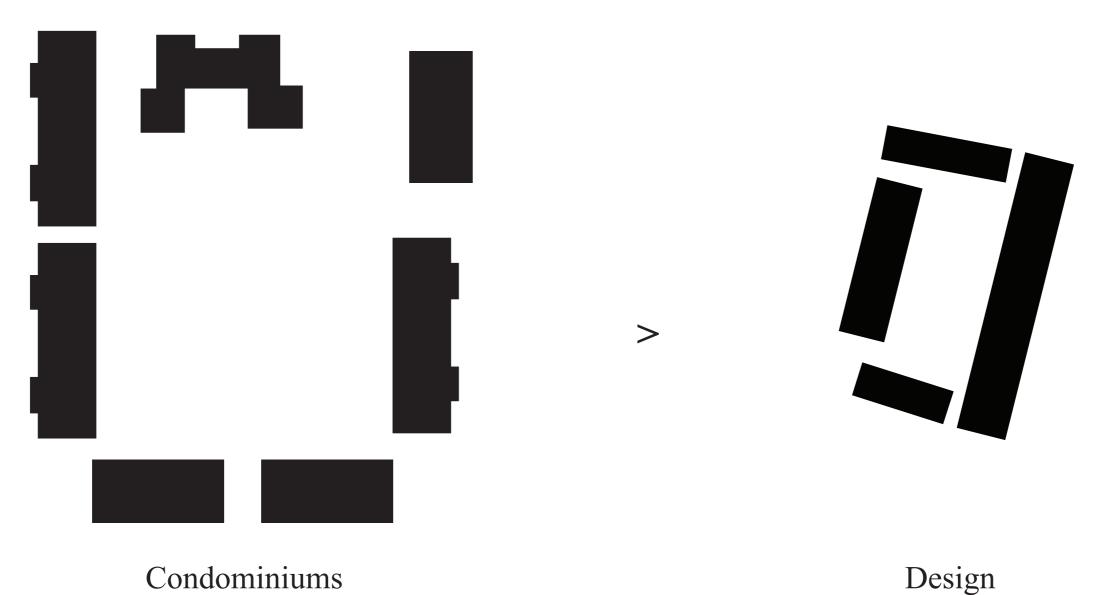












Comparison condominiums

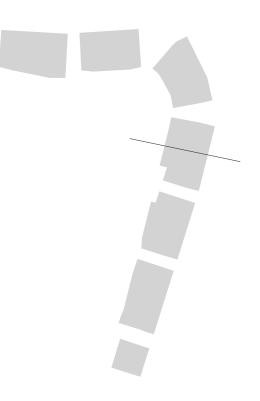


Section | Arcade

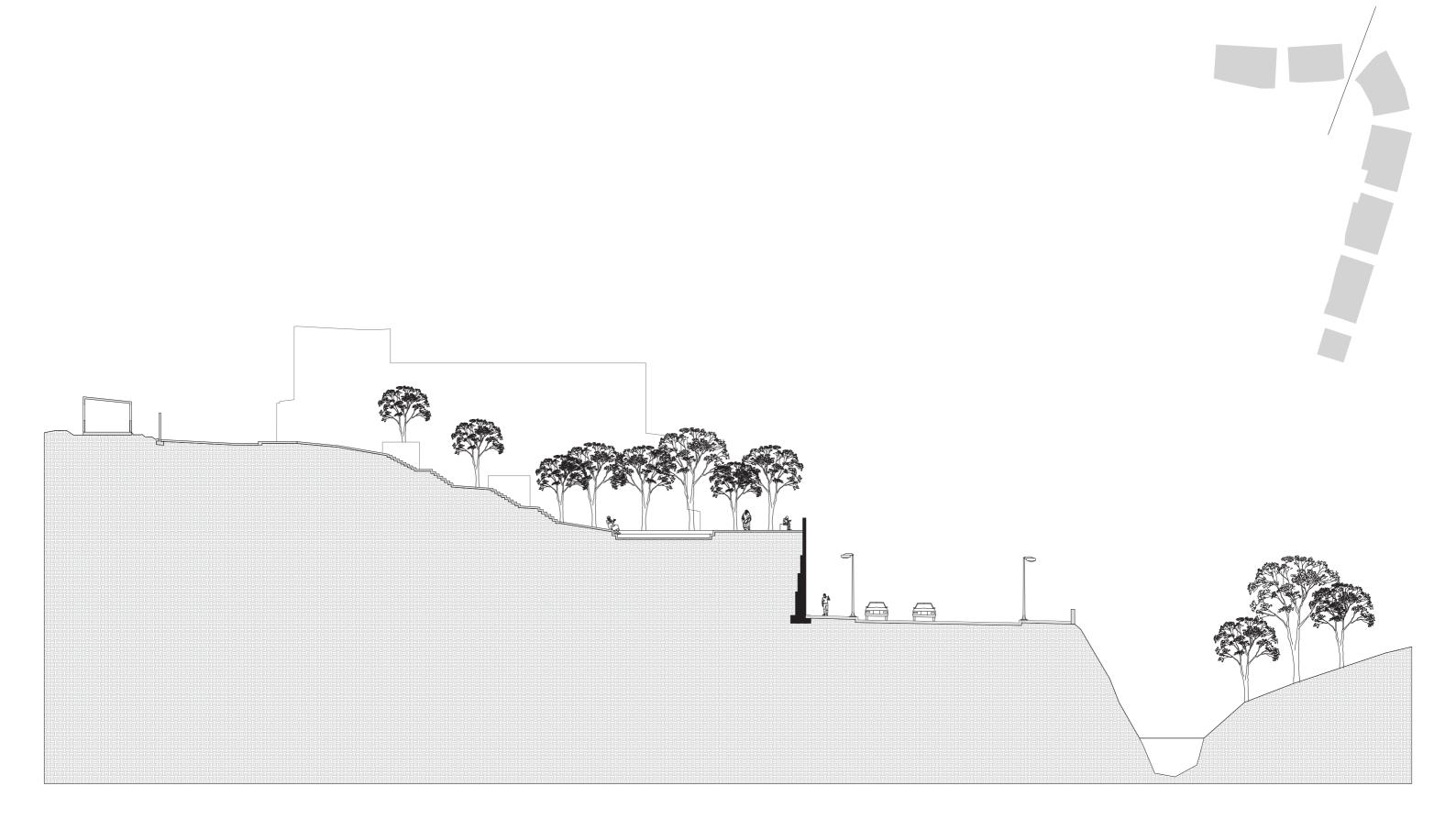




Section | Arcade



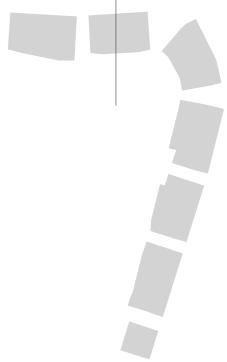
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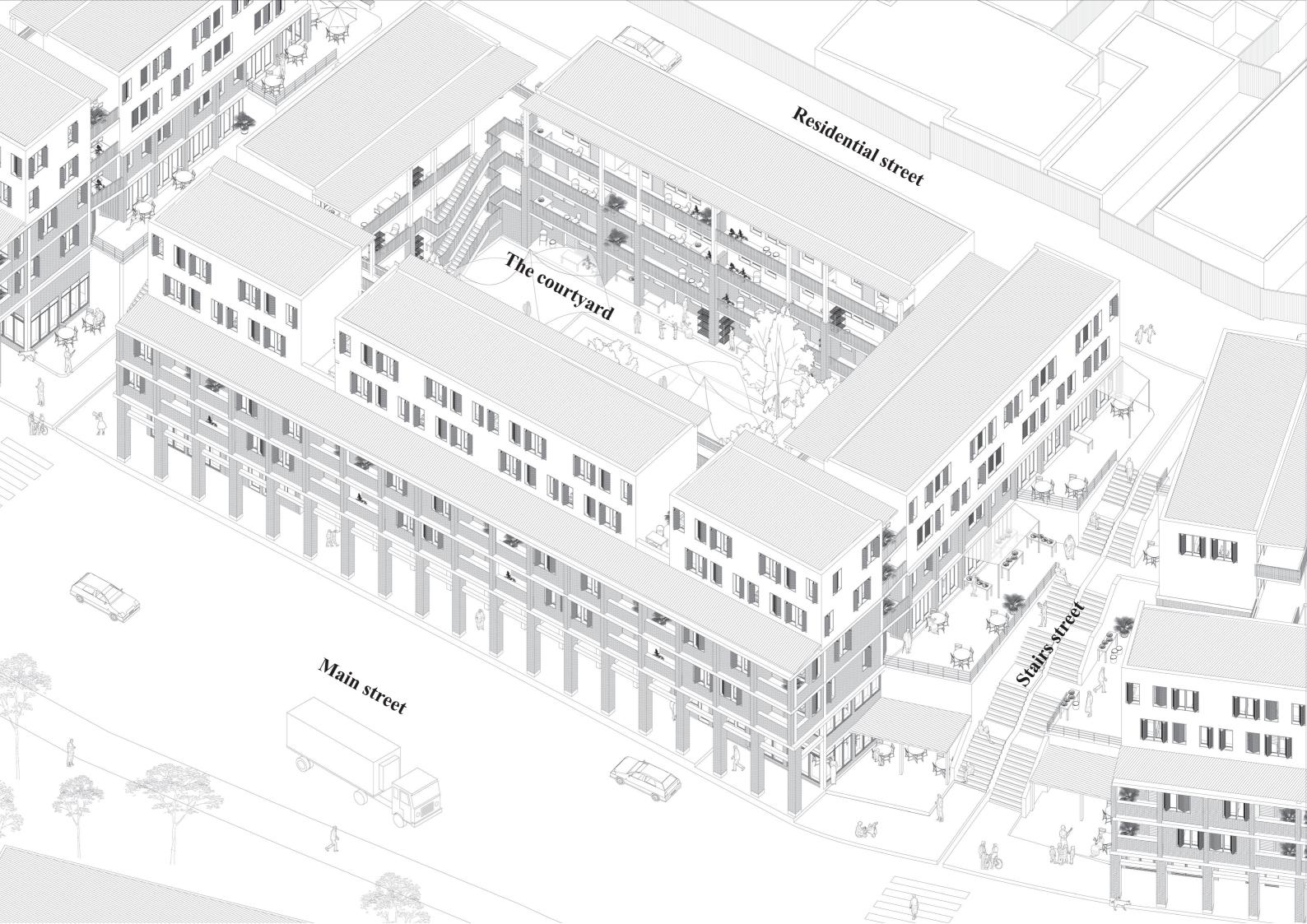


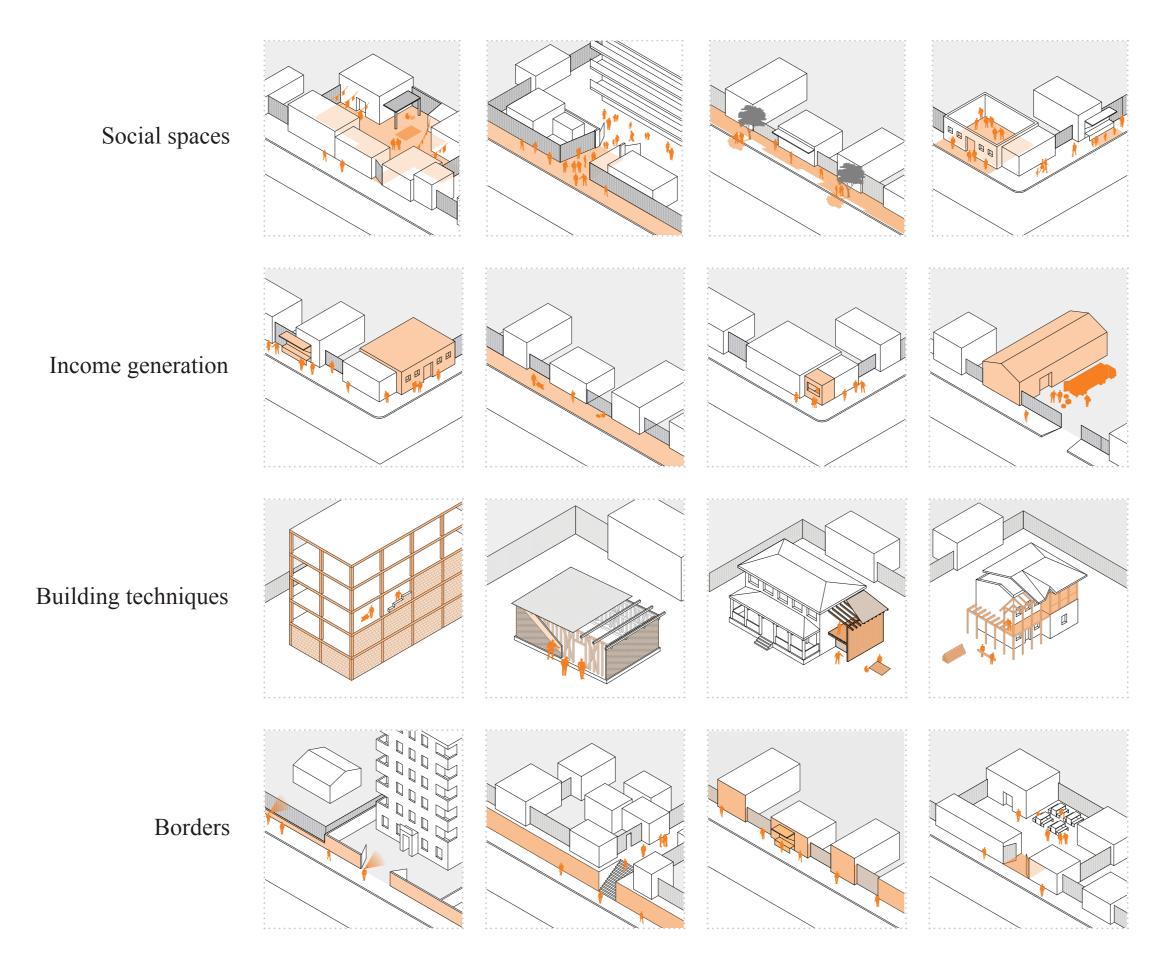
Section | Green spot



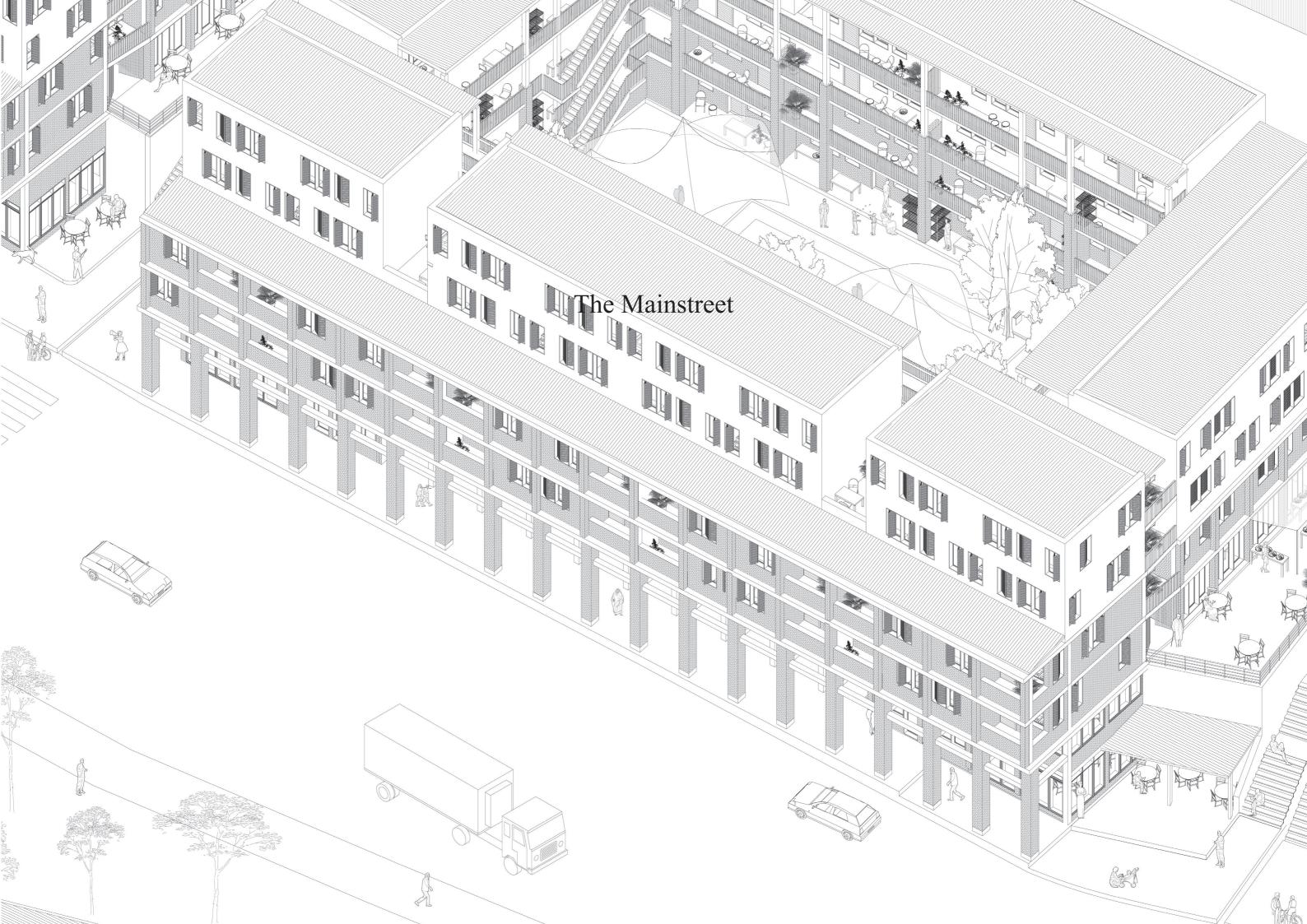
Section | Workshops

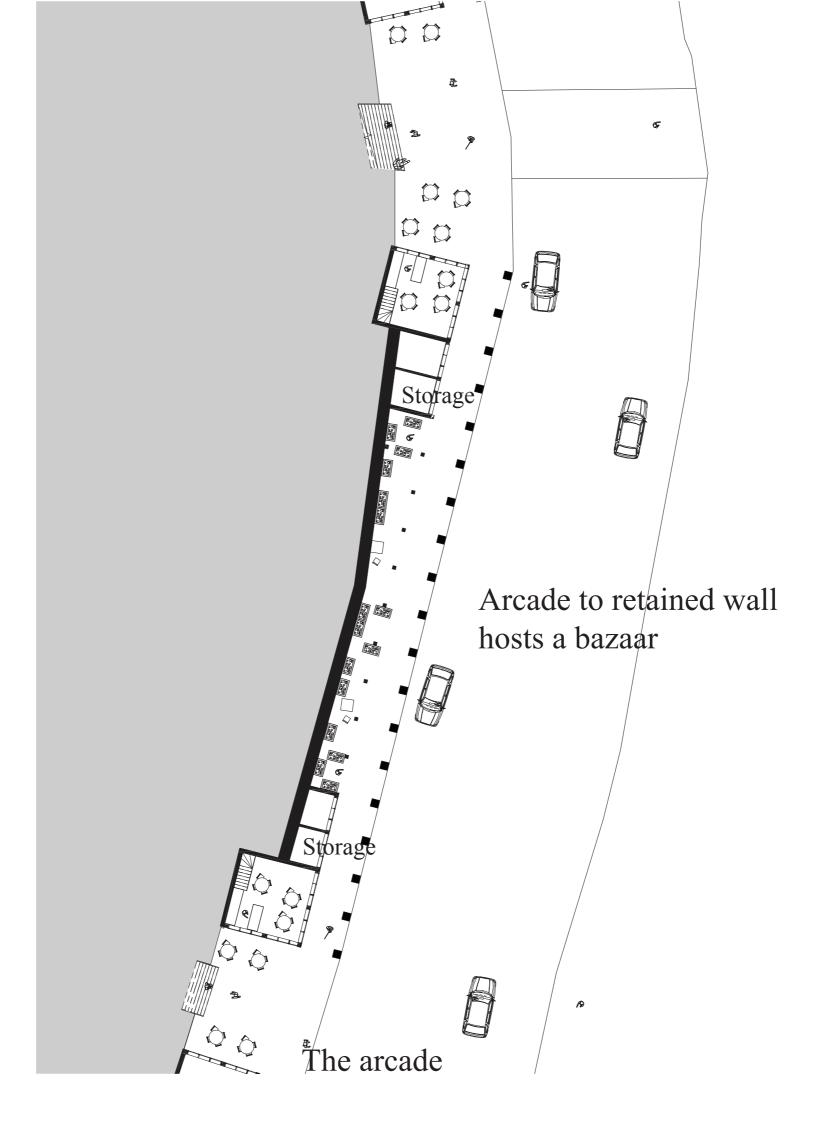


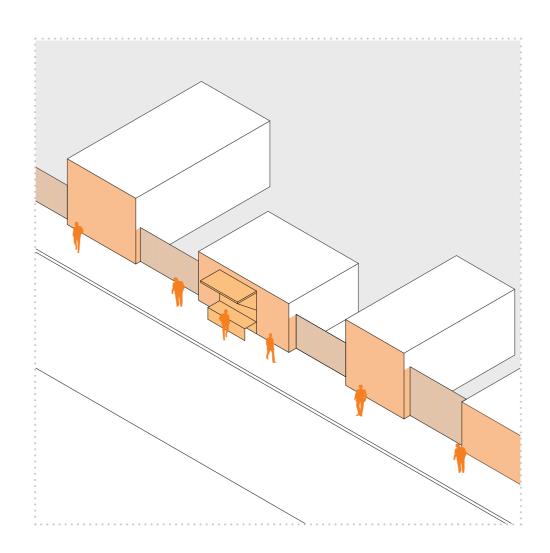




The book of patterns



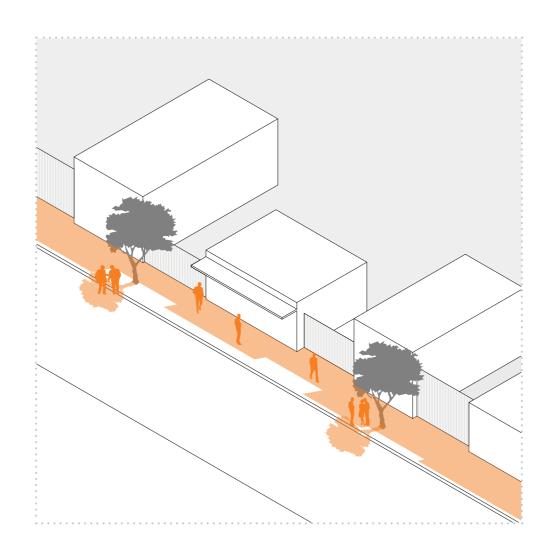




The book of patterns | Proactive barrier



The book of patterns | Proactive barrier



The book of patterns | Shaded area

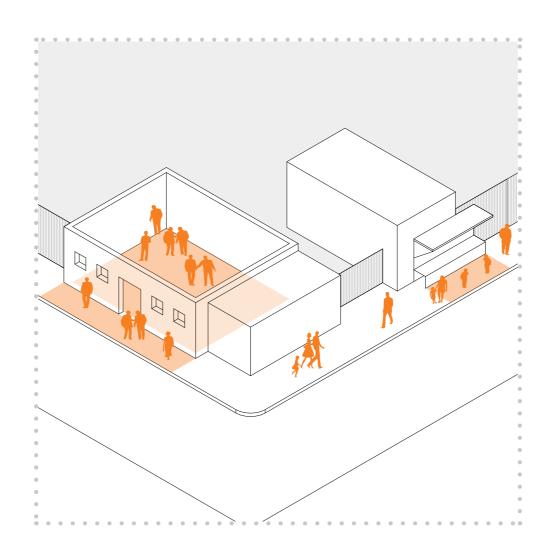












The book of patterns | Commercial hot spot

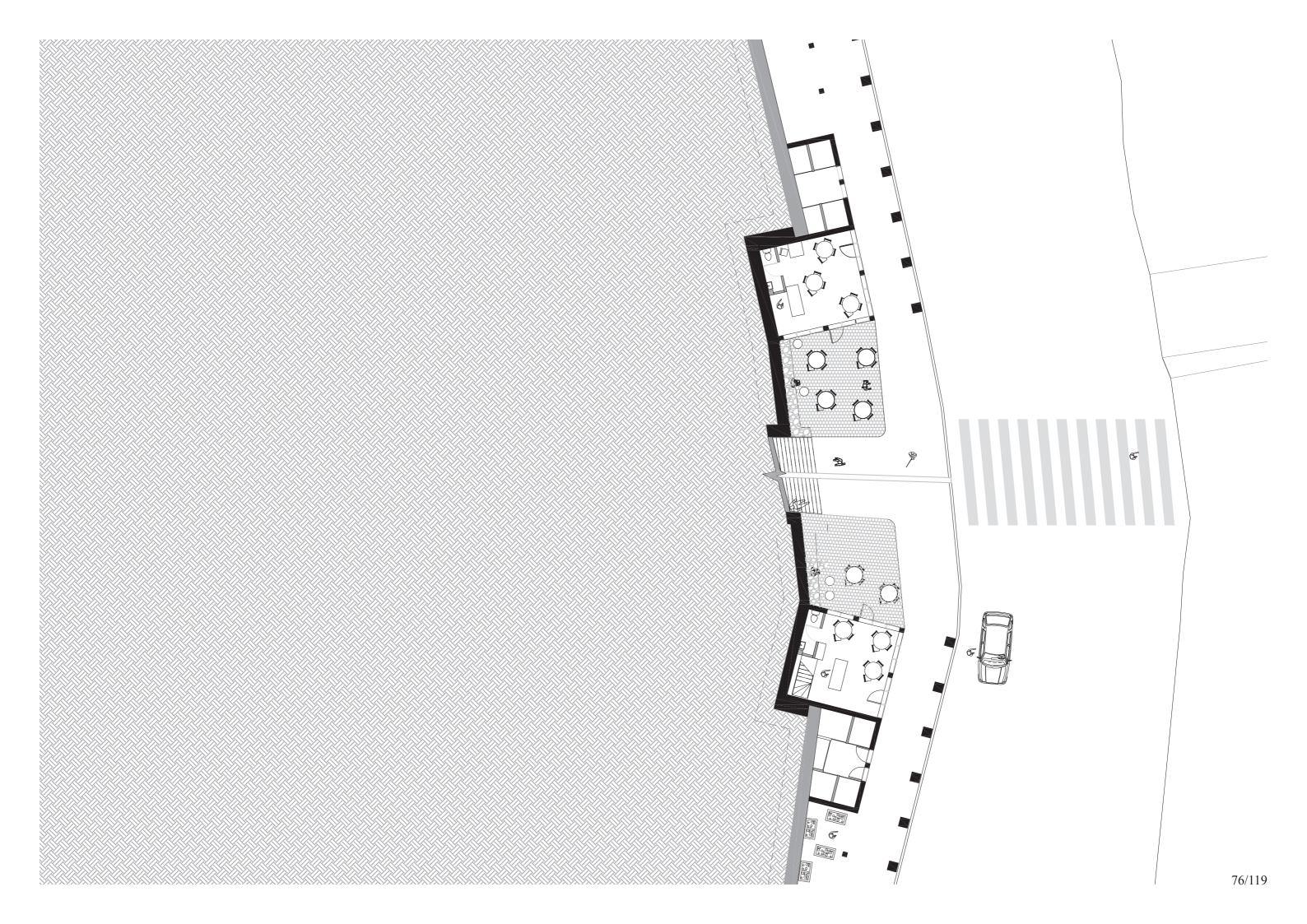


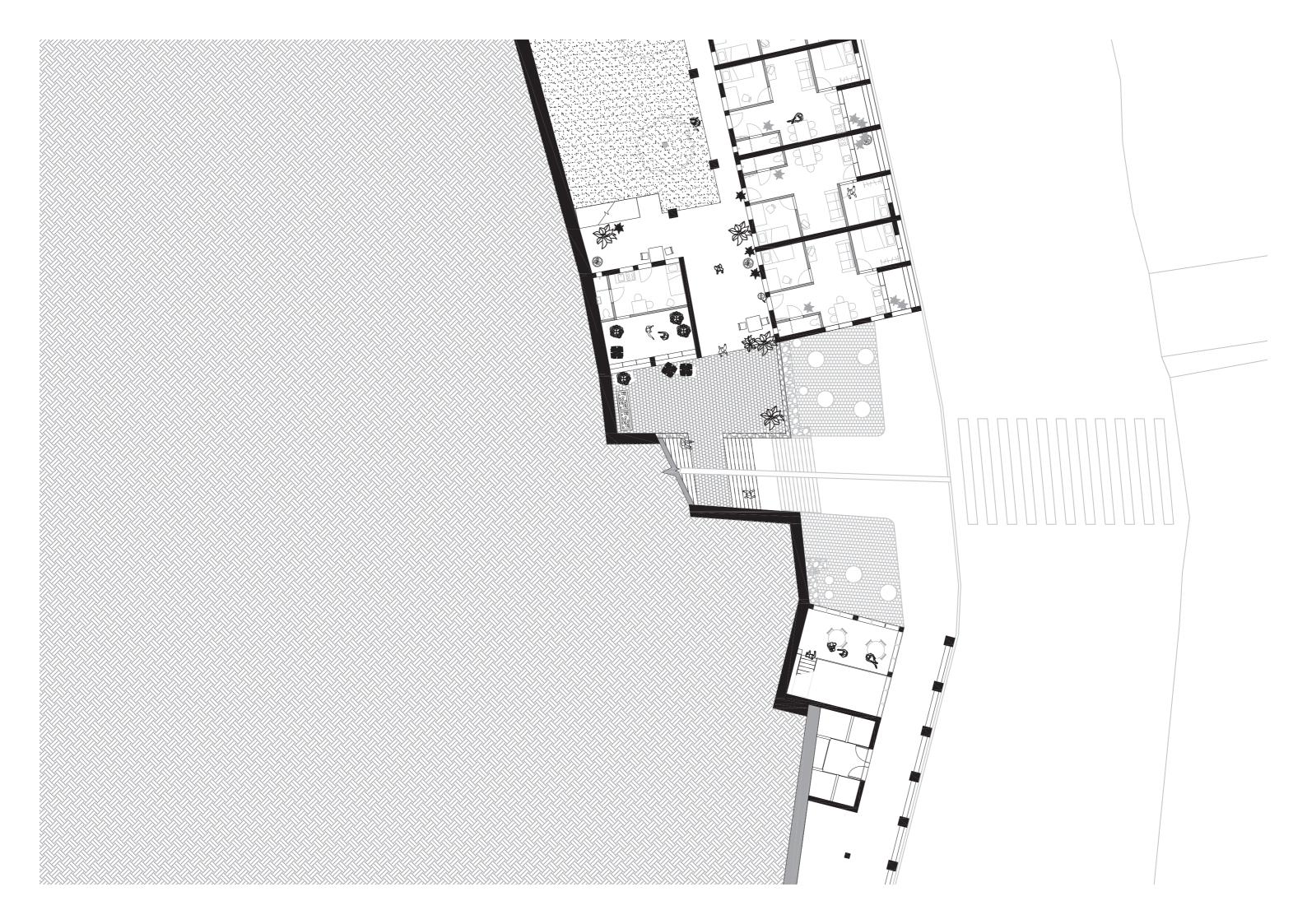


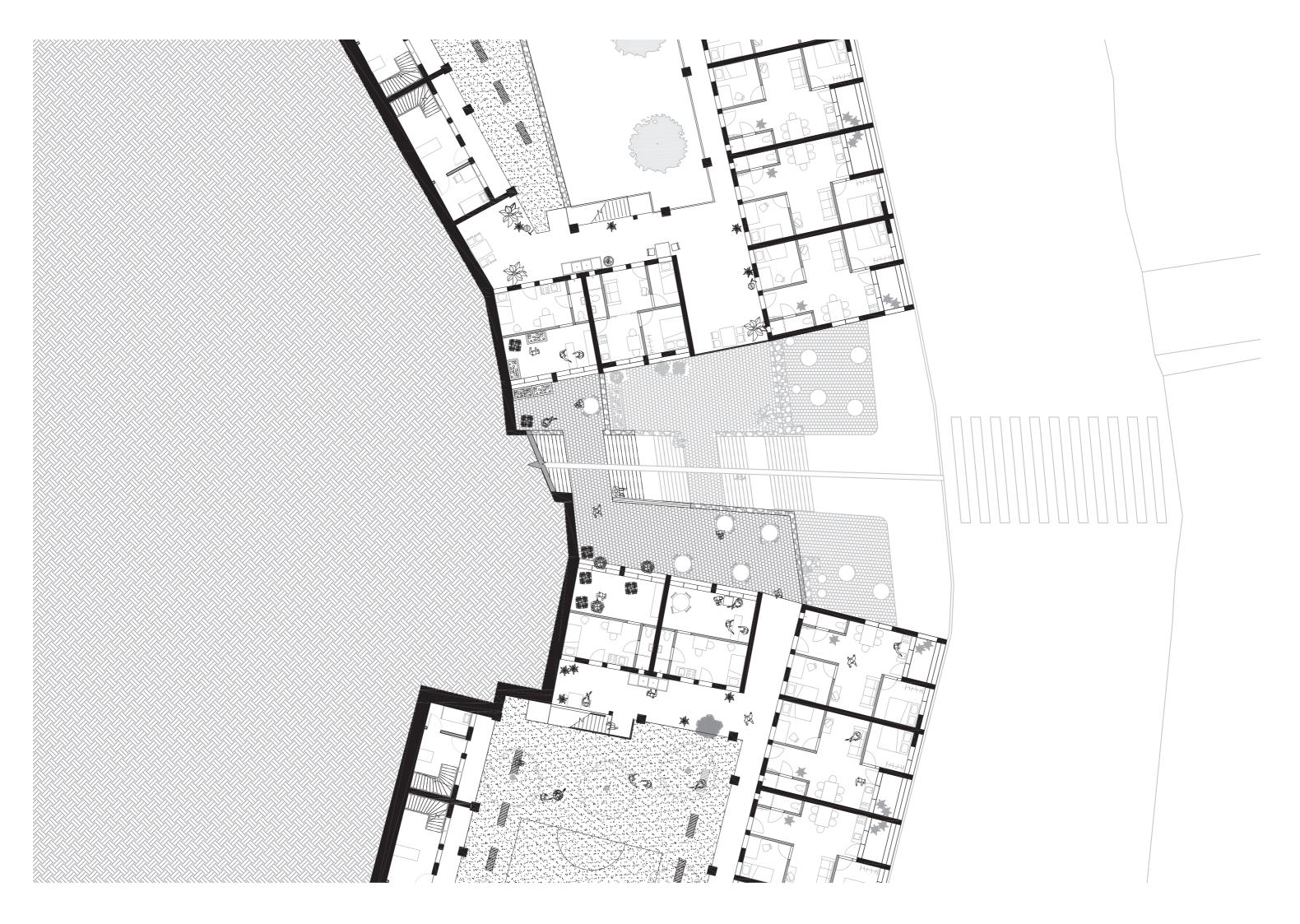
70 Dereja, a social and political place

https://www.google.nl/search?q=70+dereja+addis+ababa&rlz=1C1CHFX_nlNL562NL562&source=lnms&tbm=isch&sa=X&vel=0ahUKEwi09LTNjoHUAhXBKsAKHZpFBDYQ_AUICygC&biw=1536&bih=711#imgrc=T6HmFcpcr0fNrM:

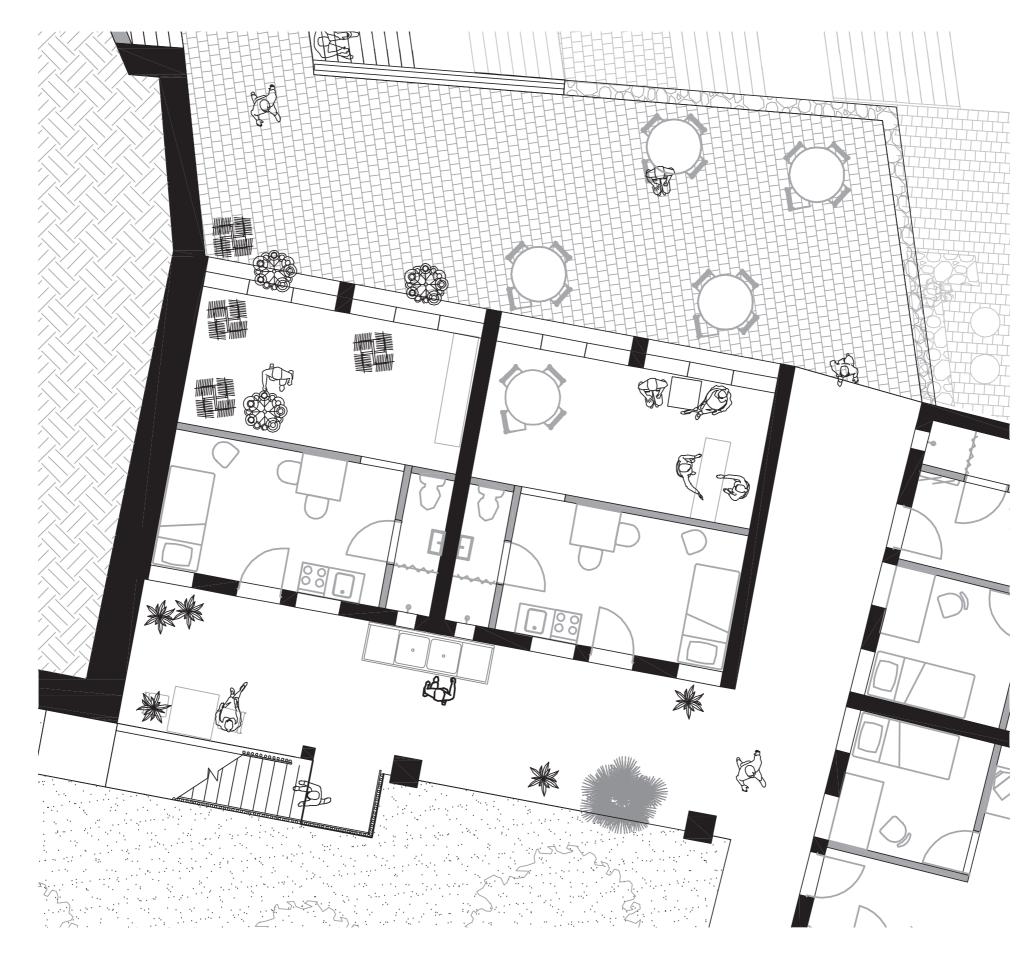












 $18 \text{ m}^2 \text{ studio} + 18 \text{ m}^2 \text{ shop}$

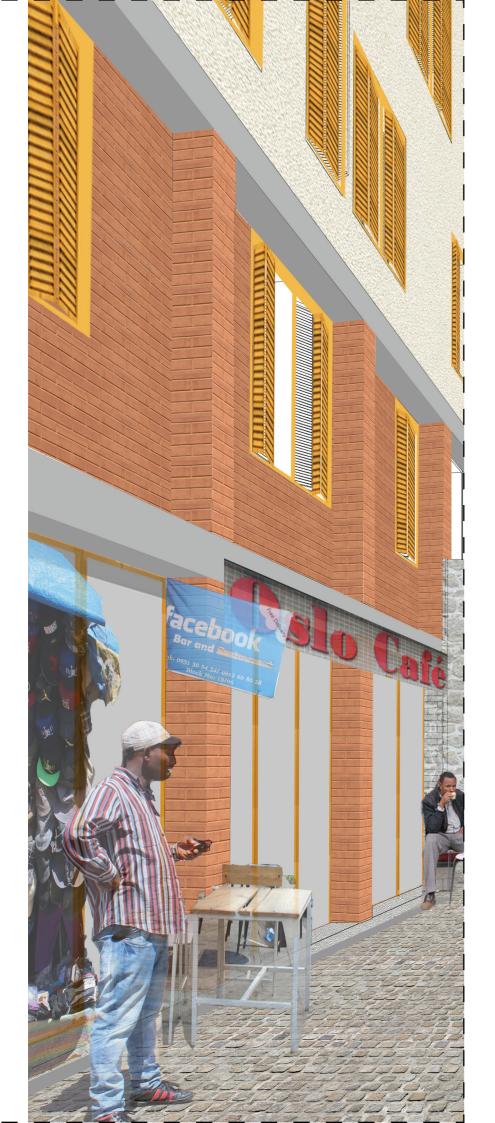
The Facebook neighborhood | The scale of the shops

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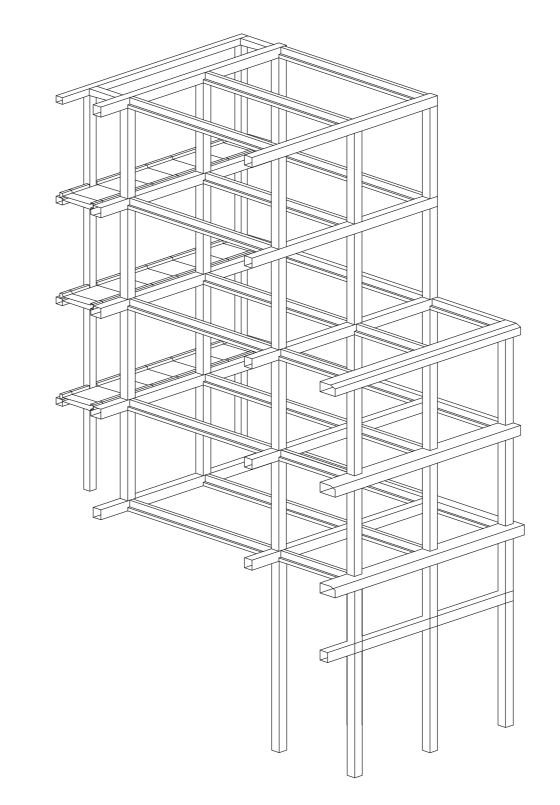
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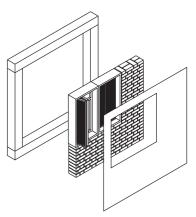




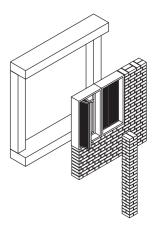
Concrete columns, beams and ring beams



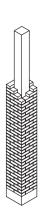
CEB infill + plaster



CEB infill + CEB facade elements



CEB cladded concrete columns ARCADE

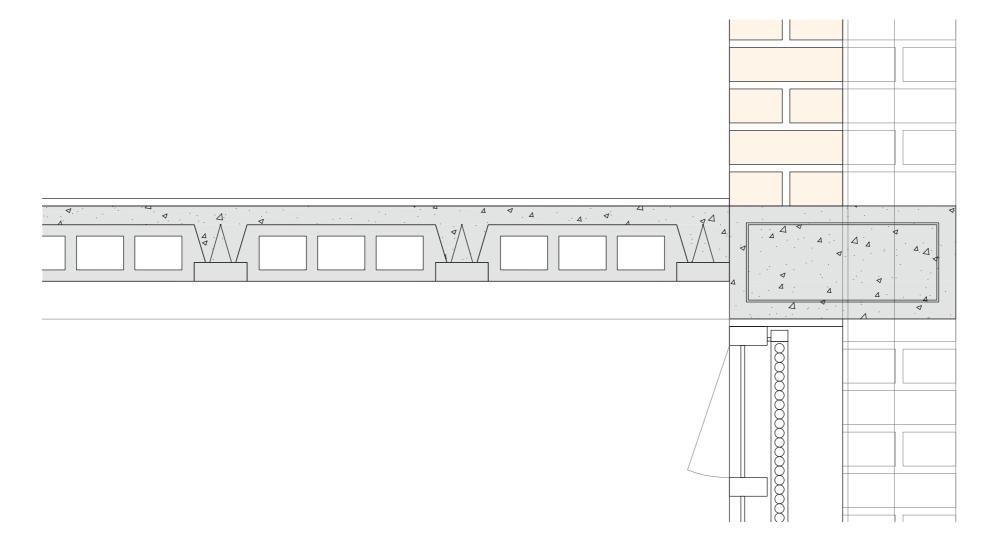




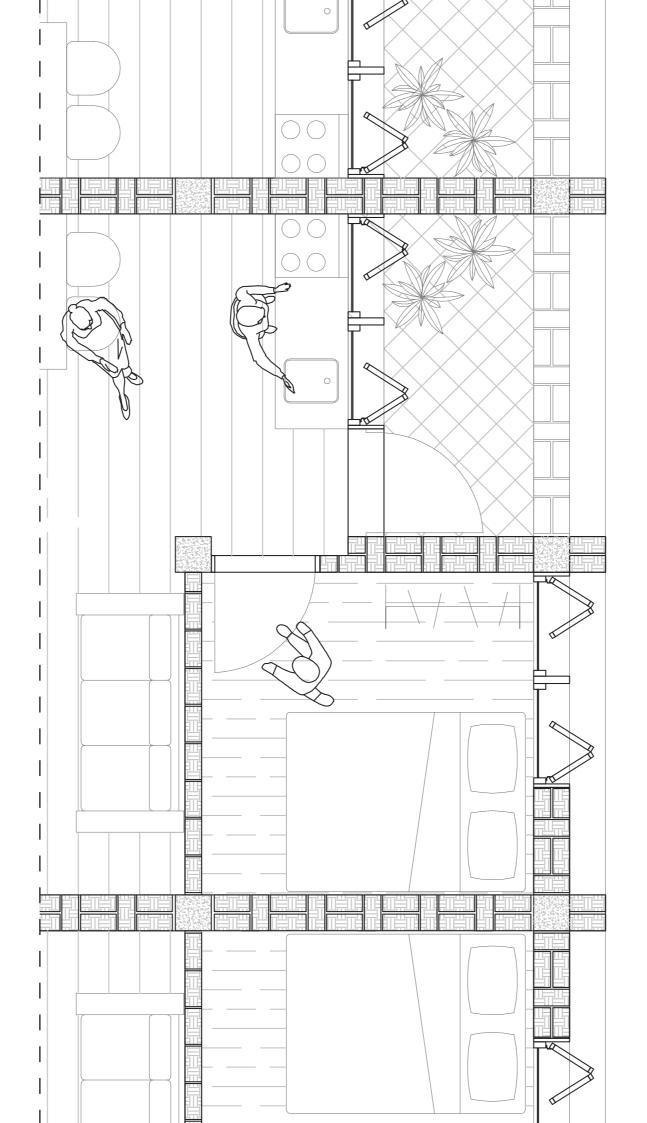


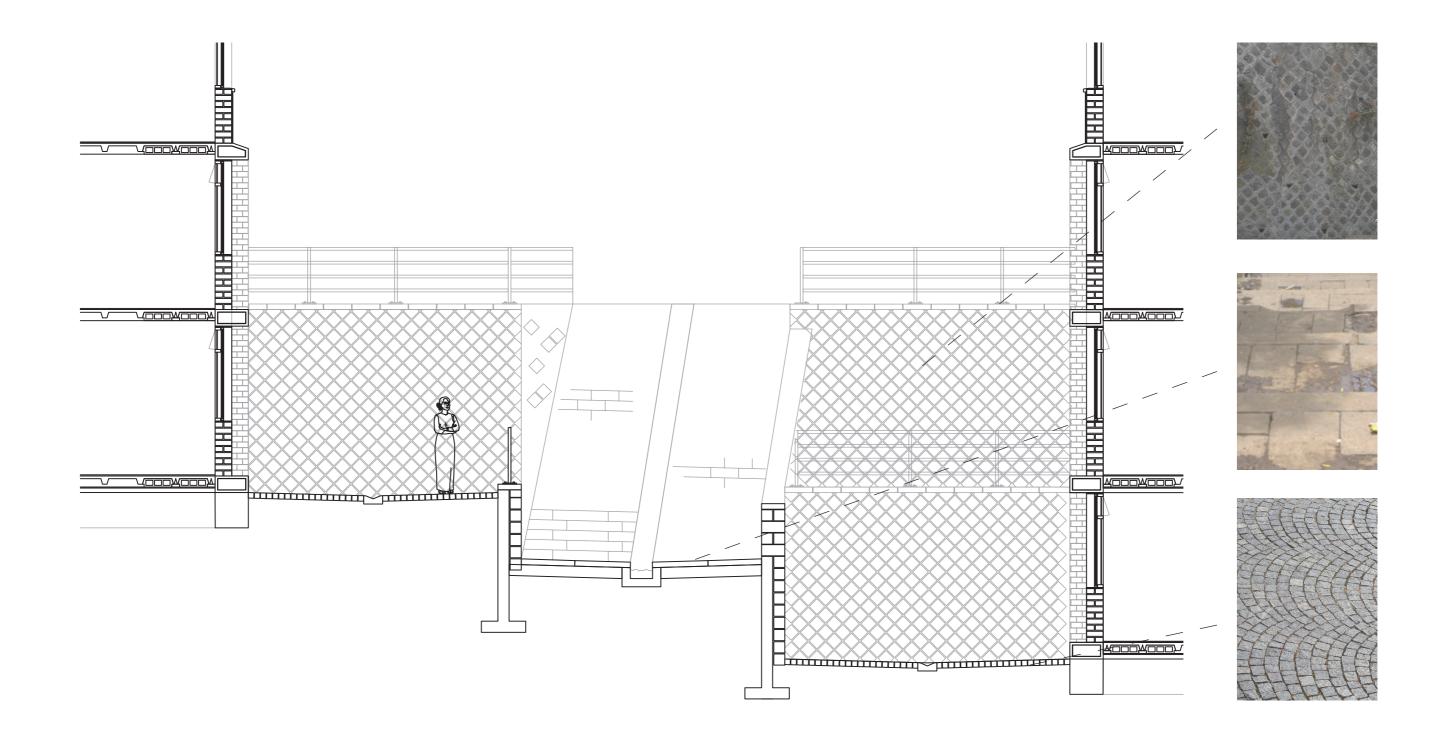
Making CEB's

http://images.adsttc.com/media/images/54a3/6cc3/e58e/ce6c/5a00/0049/newsletter/096A0517.jpg?1419996346



Hollow concrete floor blocks





Section stairs and terraces

Small water canal in Freiburg | Simple cement and very interesting for kids

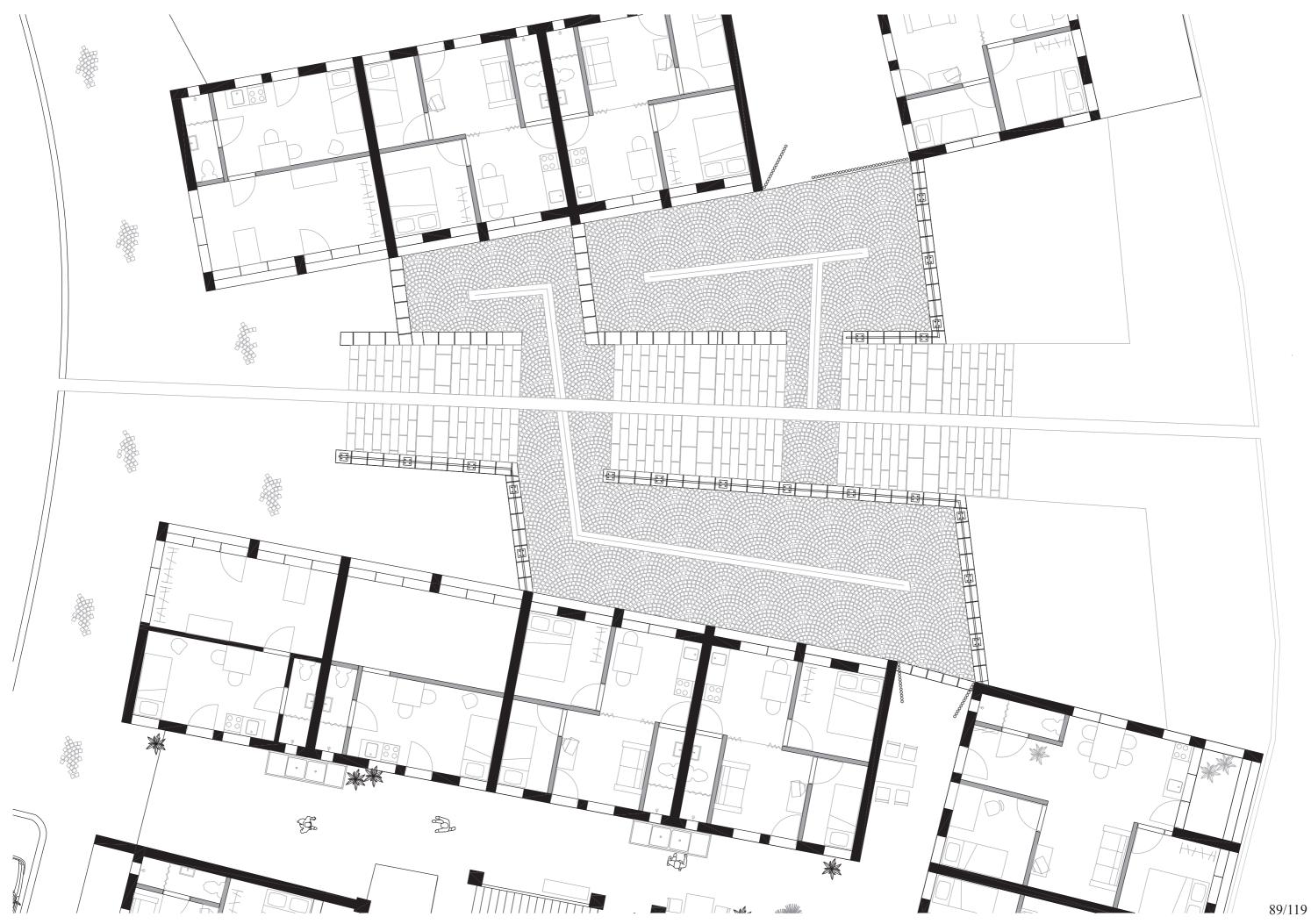
https://thetravelingtimes.files.wordpres

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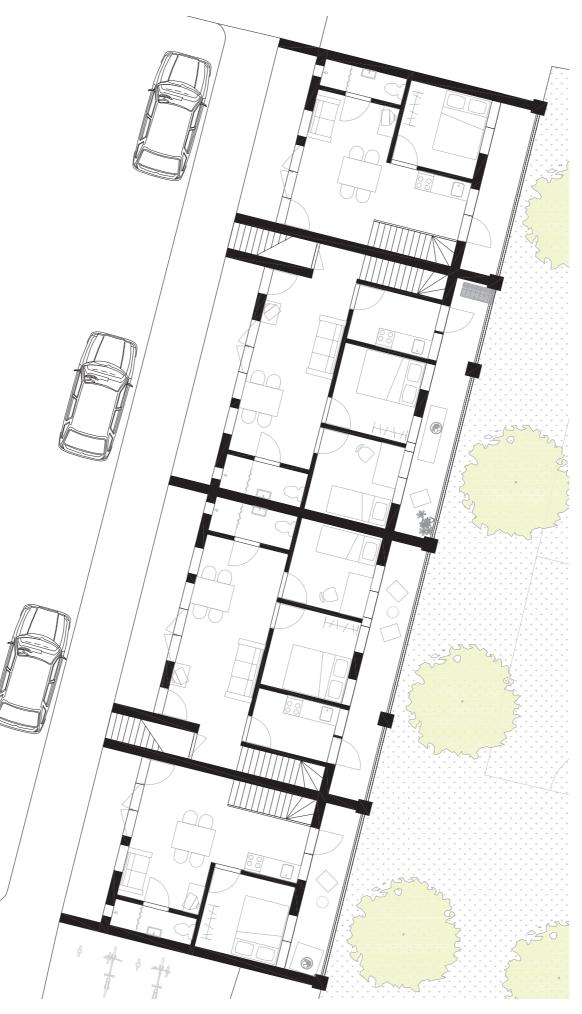
2012/10/freiburg-b

FITTE





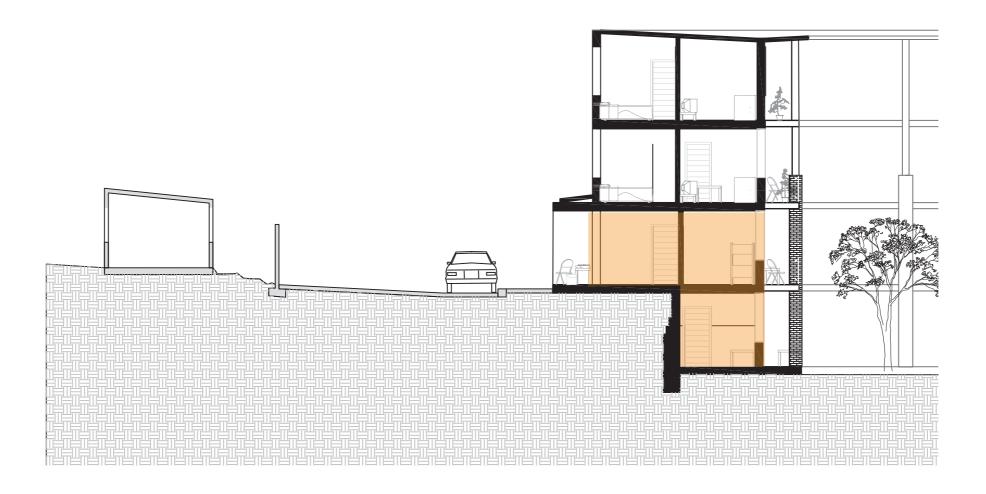




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Family housing | Portiek

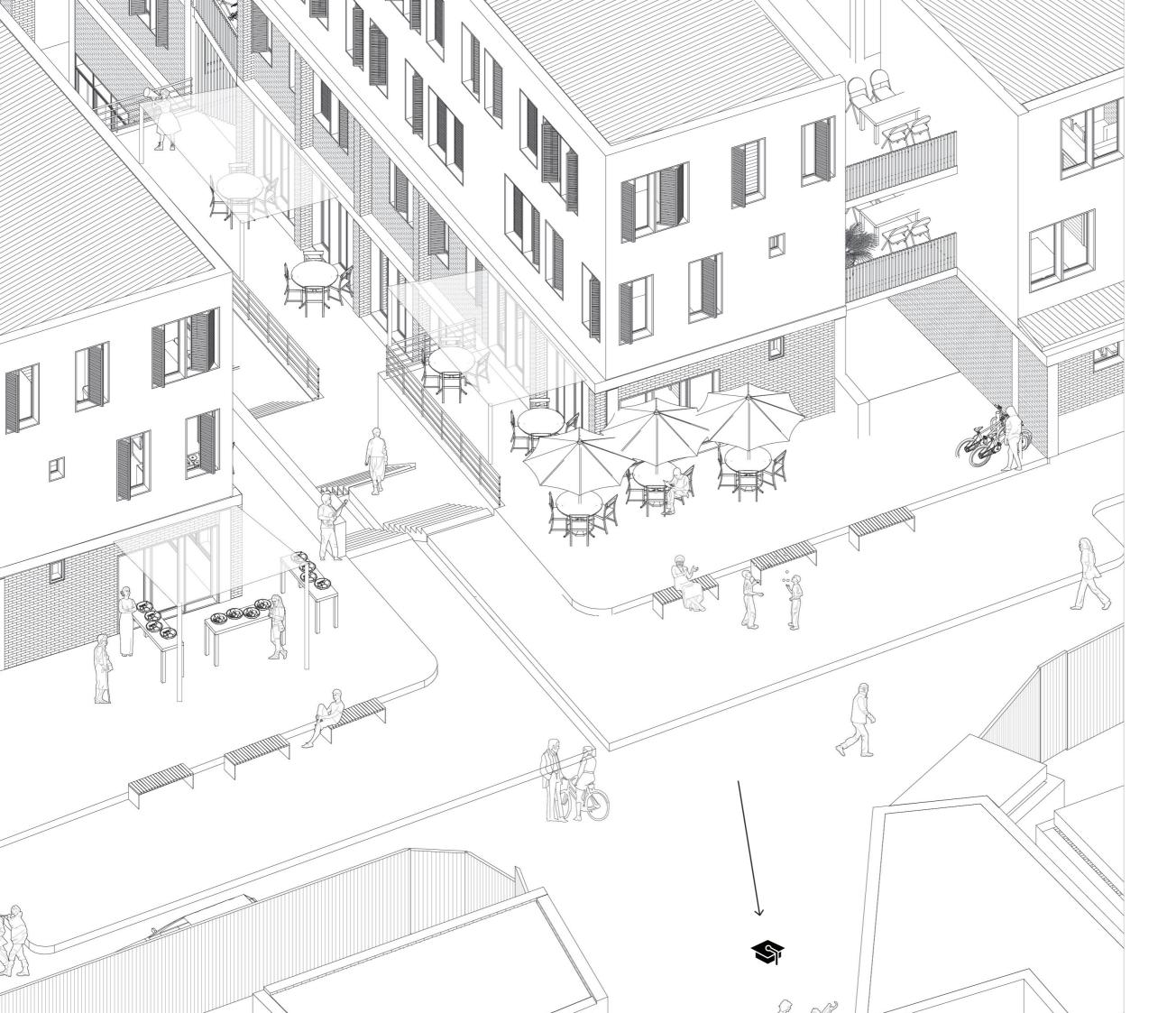
91/119

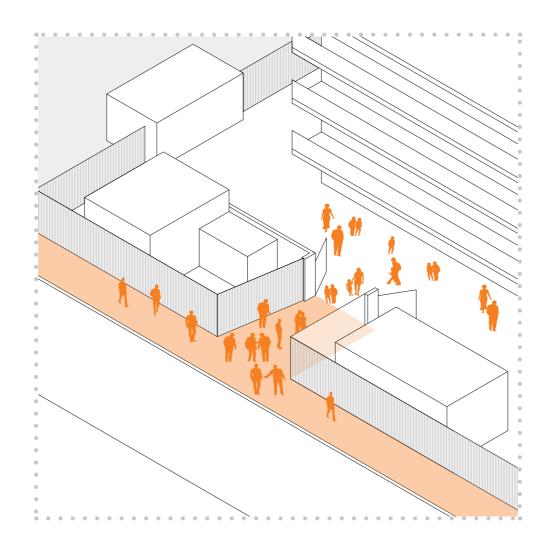


Maisonnette dwelling ground floor





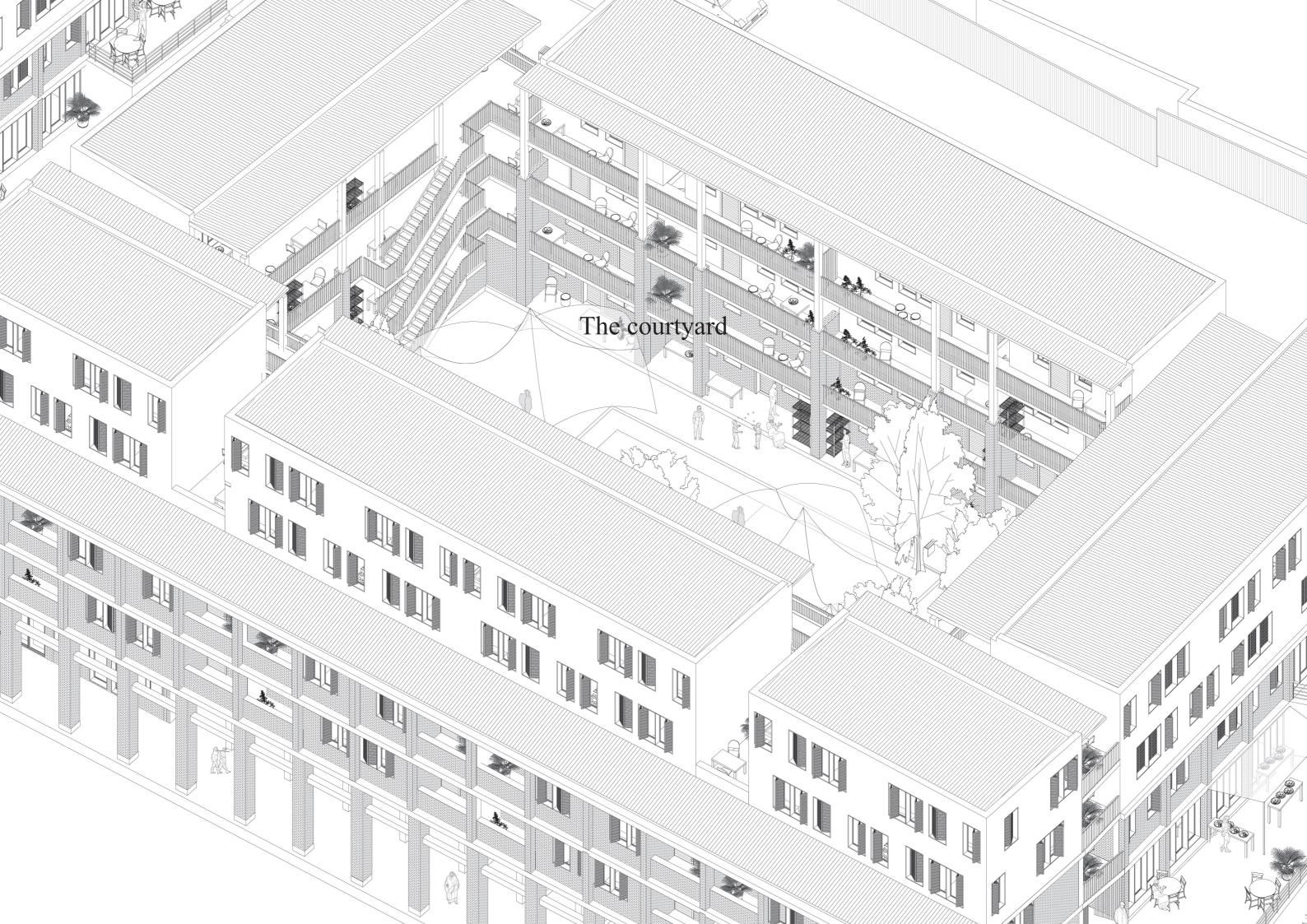


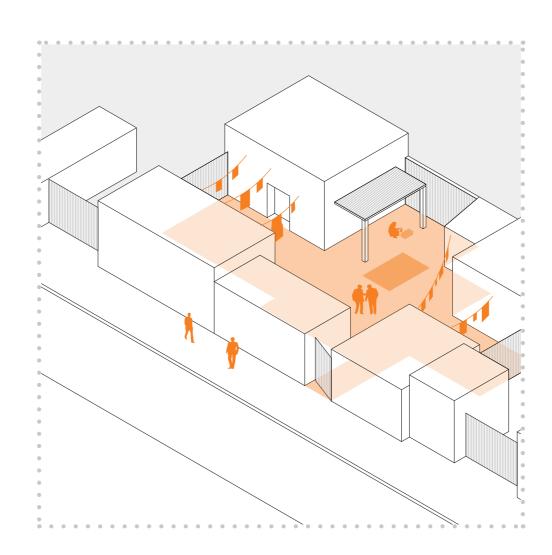


Book of patterns | Rush-hour spaces



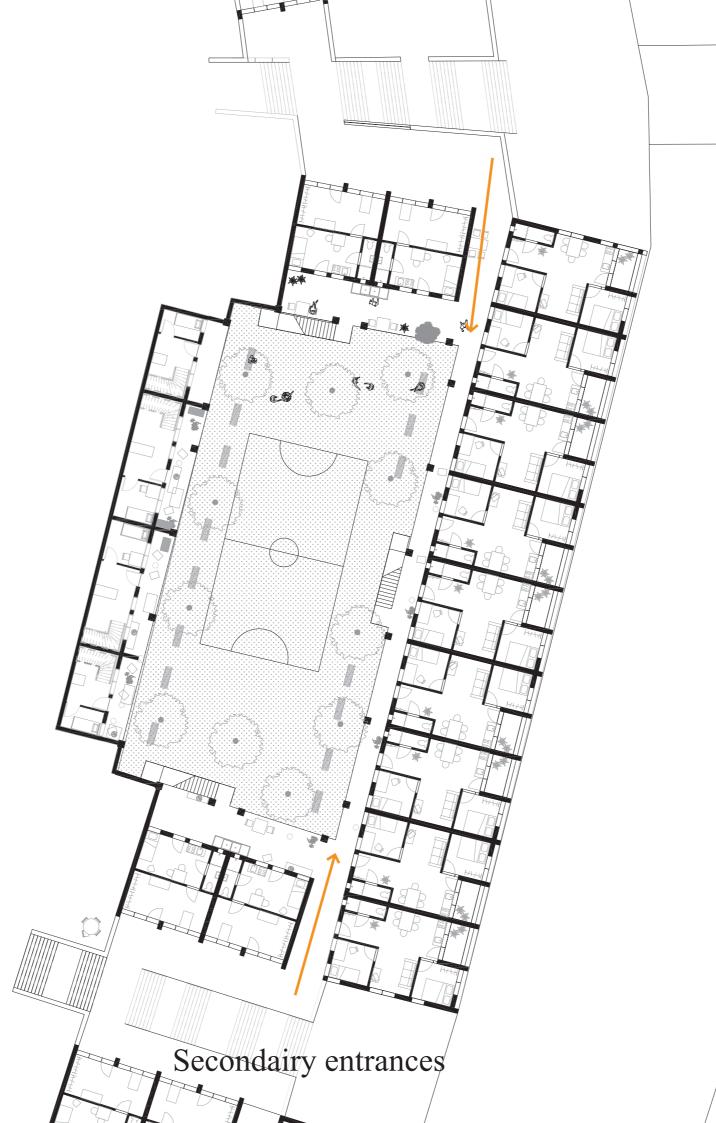
Book of patterns | Rush-hour spaces





Book of patterns | Compound courtyard





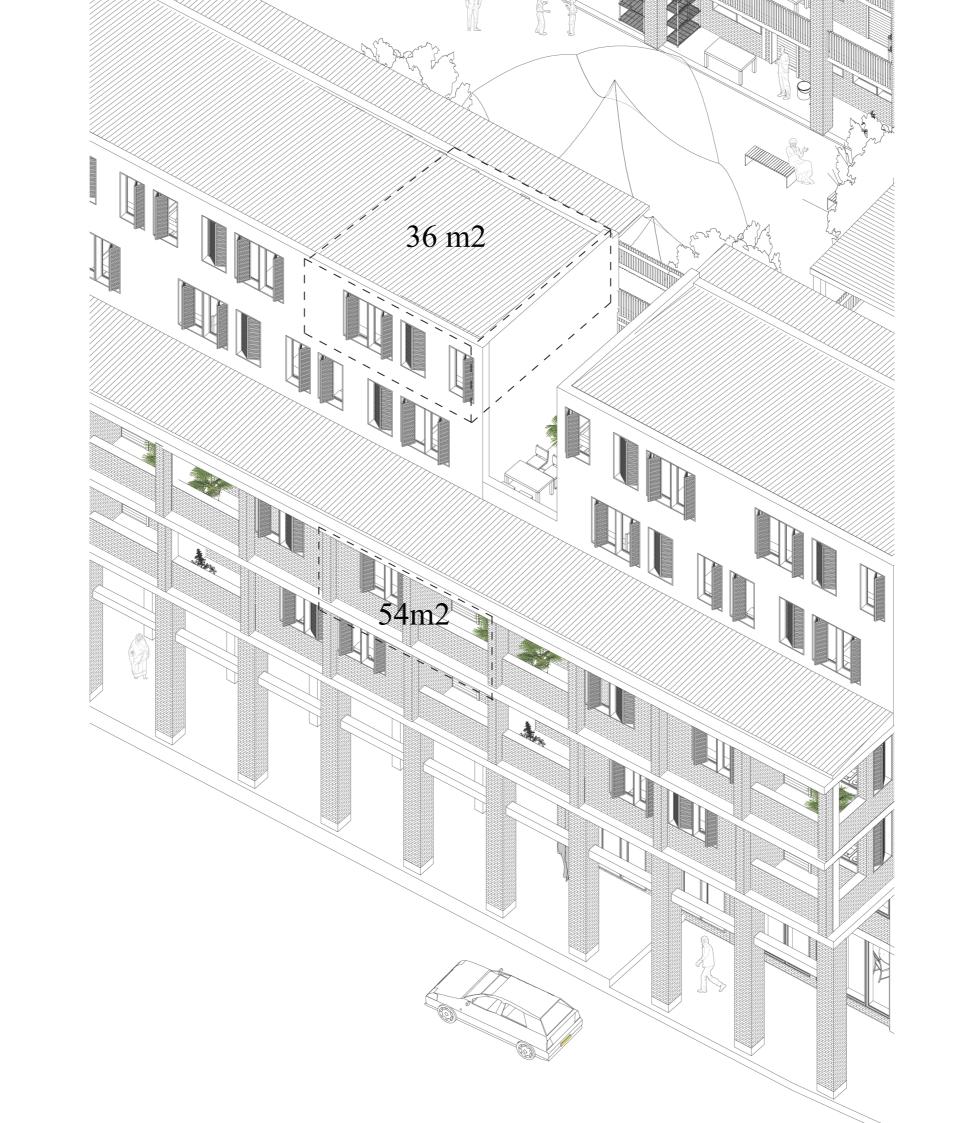
101/119













Shared in between spaces

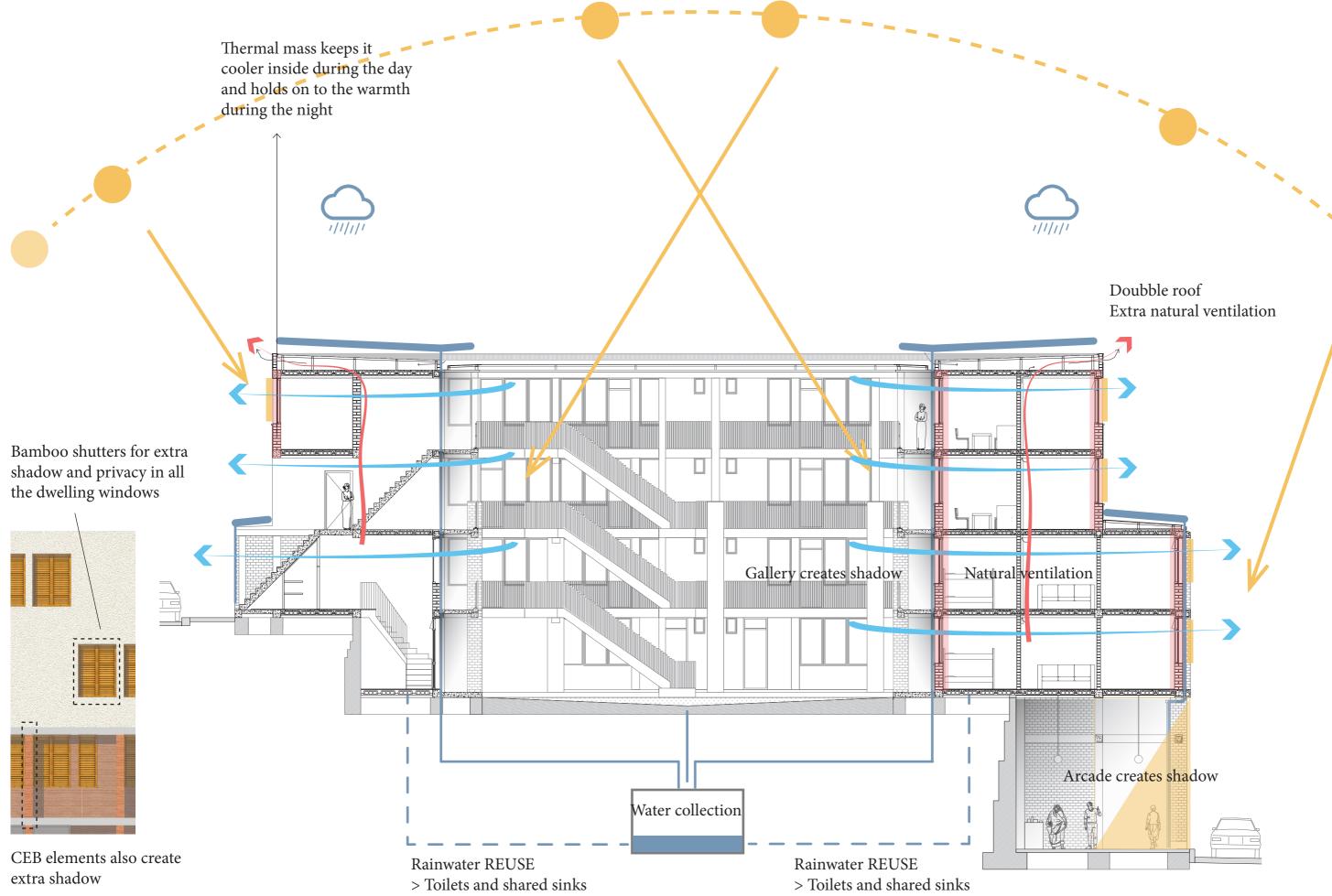
107/119

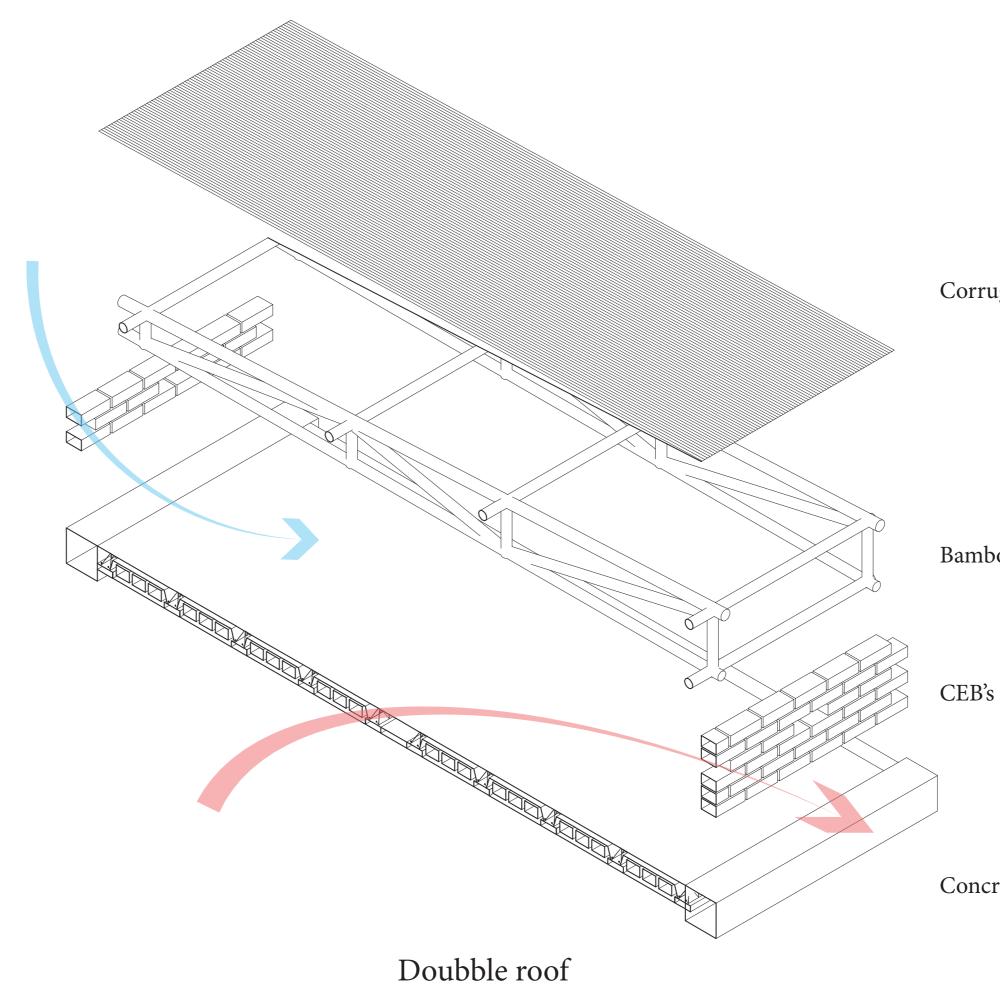
The climate



The green play corner







Corrugated metal sheet

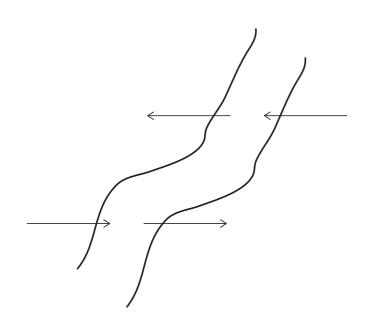
Bamboo

Concrete hollow floor blocks

Conclusion

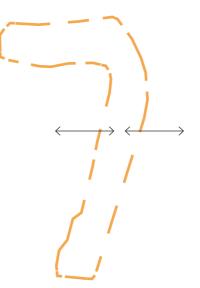
Open border

- Economic exchange
- Social exchange



Future developments

- The developing city
- The changing street





Focus of the design

The topography

- The wall - Topography







The open border | Social and economic exchange

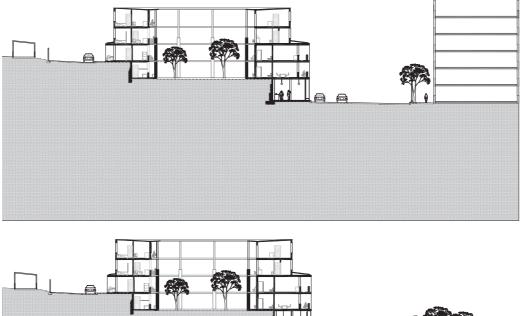


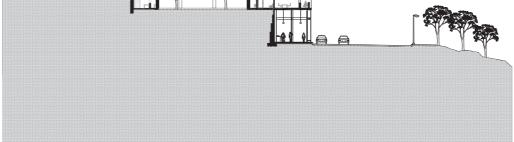
Relation to future developments and the city | A place for the city

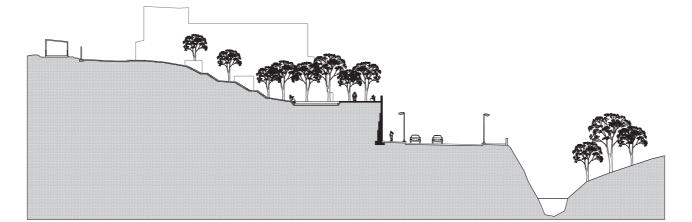


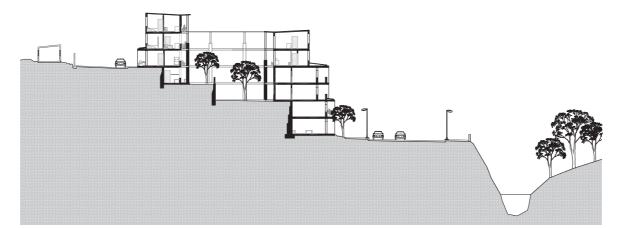


Relation to a residential atmosphere







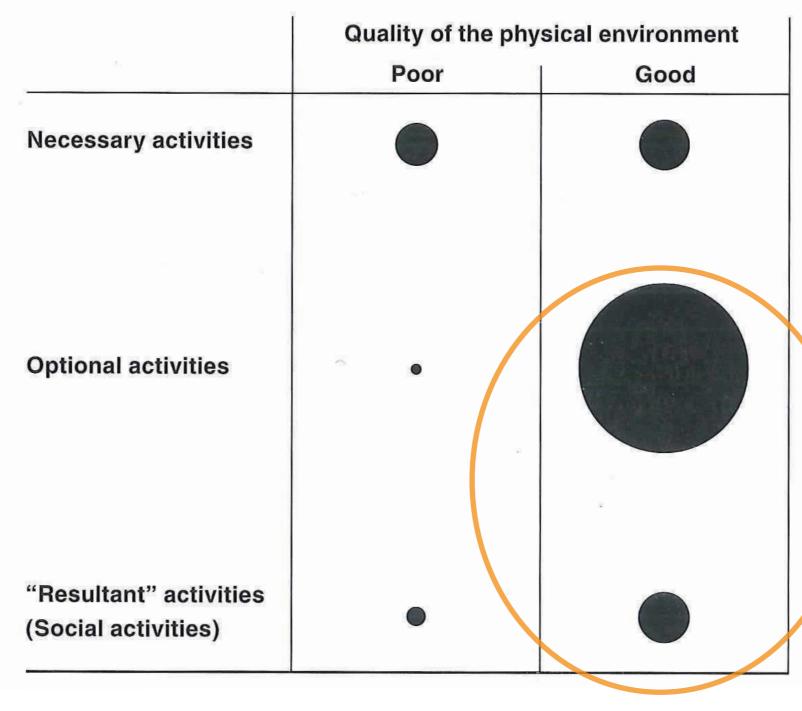


The topography | The block adapts





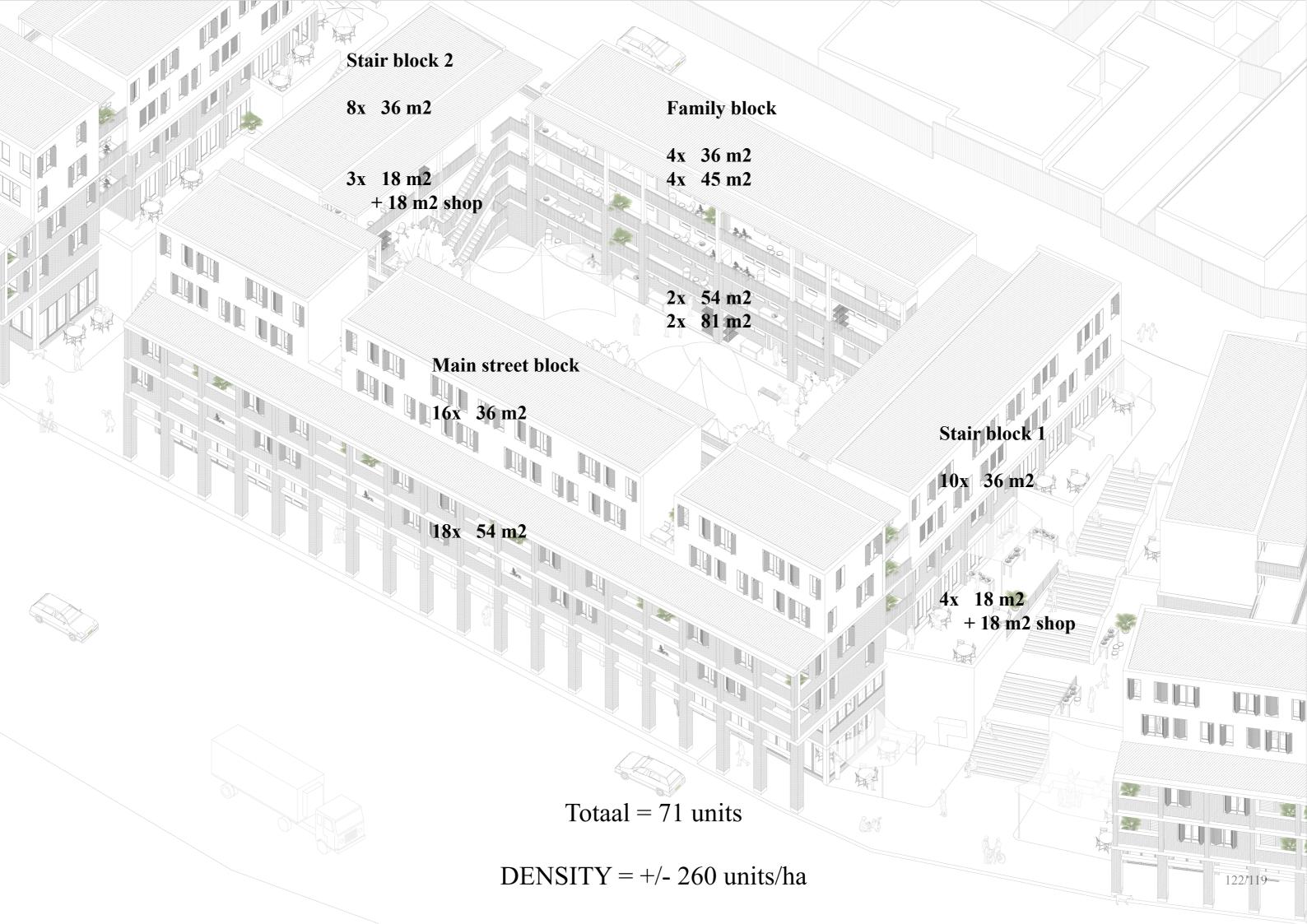
Extra slides



Theories of Jan Gehl

The more activities in one border the more successful

Gehl, J. (2011). Outdoor activities and architectural trends. In J. Gehl Life between buildings (J. Koch, Trans.). Washington, NW: Island Press.



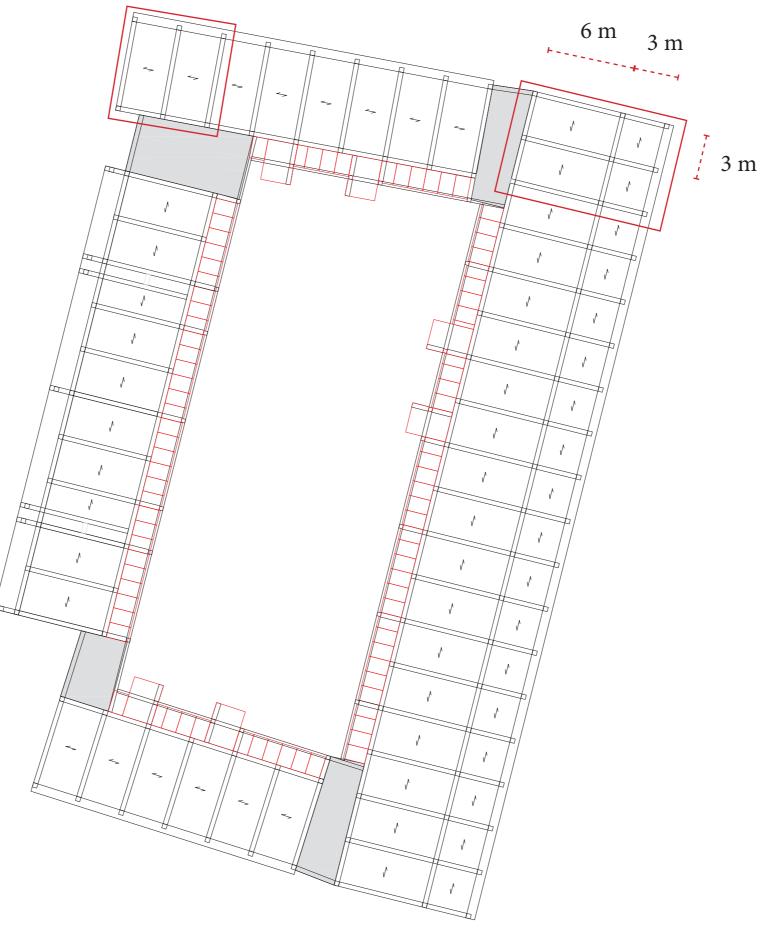


http://c8.alamy.com/comp/C3RXT6/the-piazza-addis-ababa-ethiopia-C3RXT6.jpg



http://mw2.google.com/mw-panoramio/photos/medium/45409554.jpg

Nearby references | Piazza area and Haile selassie street



Construction plan







Blocks and beams



Wall re-used stones



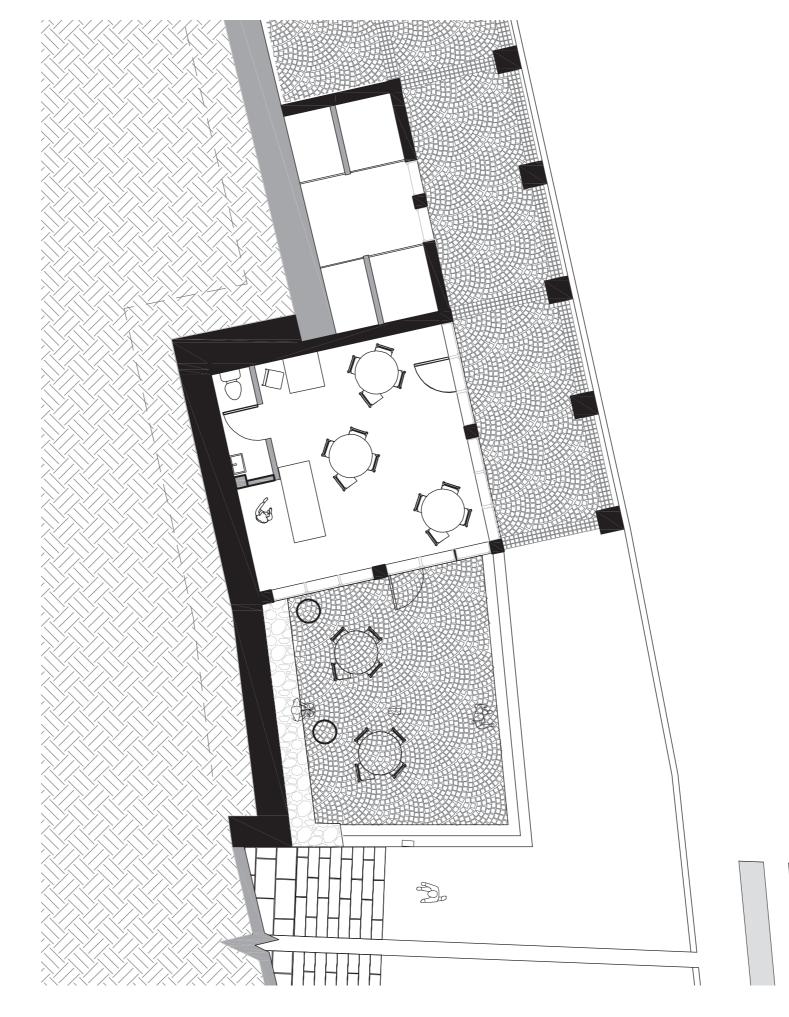
Cobblestones pavement



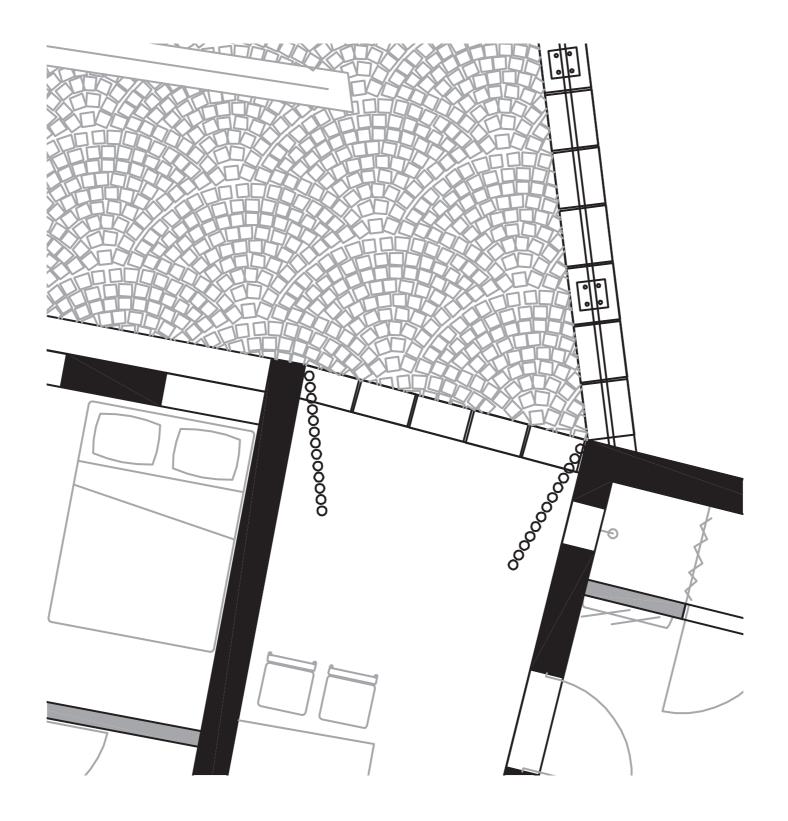
Materialisation stairs



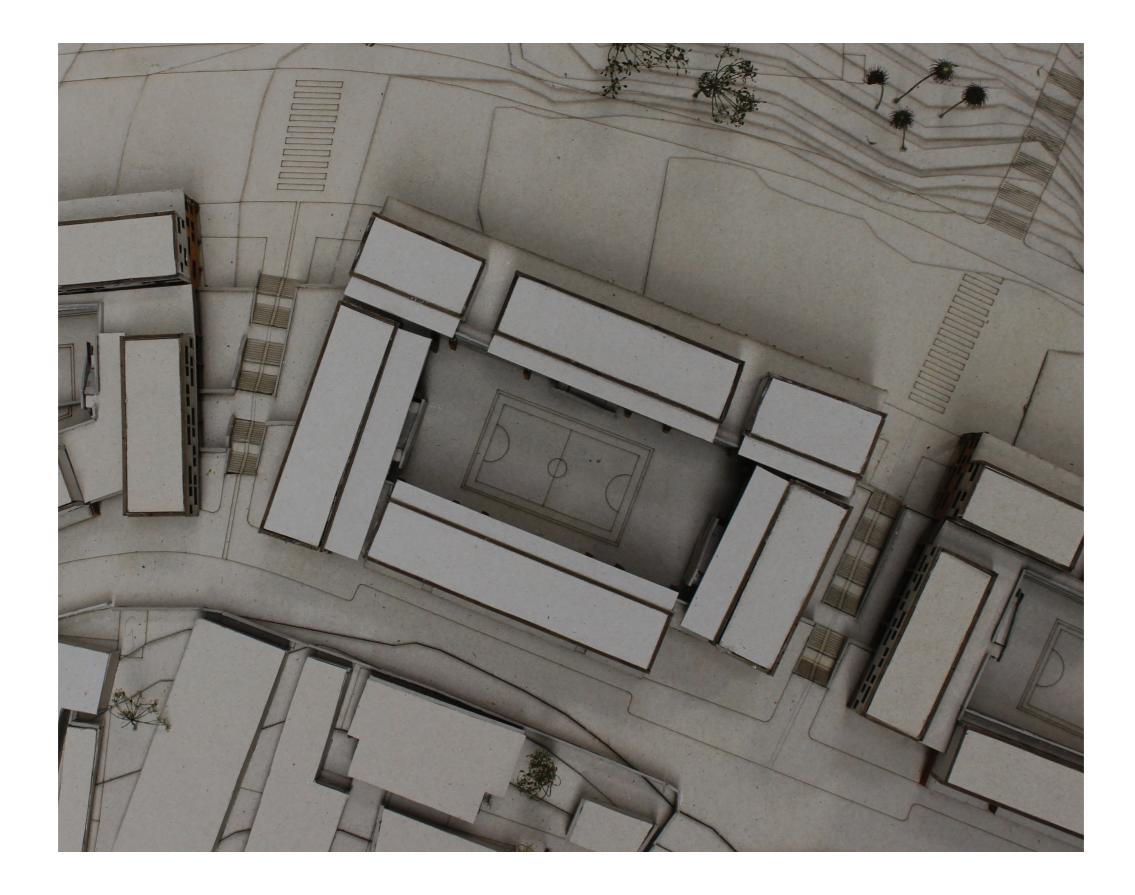
Stair tiles



Pavement arcade



Bamboo gate secondairy entrance | Border and baundary



Gutter courtyard



Metal railings for open view from stairs