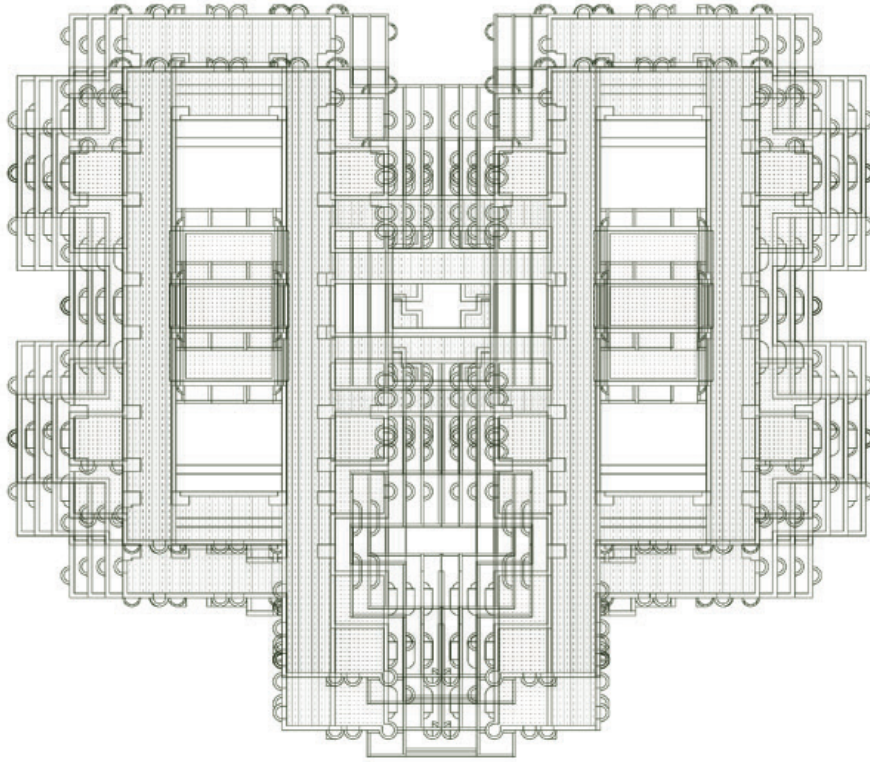


program: Master of Advanced Architecture
course: X-Urban Design Studio
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faculty assistant: Neslihan Gülhan
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The Institute for Advanced Architecture of Catalonia (IAAC) is a center for research, education, production, and outreach, with the mission of envisioning possible spatial futures for the urban world. IAAC is an open, independent, and radical non-profit foundation based in Barcelona, a global capital of architecture and design, where the notion of 'urbanization' was first introduced and where a local high-quality and innovation-oriented research is connected to an international network of excellence in technology, architecture, and urban design.

MASTER IN ADVANCED ARCHITECTURE

Director: Areti Markopoulou

Studio: X-URBAN DESIGN: SUPRACOLLECTIVES

Instructors: Mariano Gomez Luque, Francisco Villeda

Faculty assistant: Neslihan Gülhan

Student assistant: Swohm Chattopadhyay

Students: Naji Altala, Dana El Hajjar, Muskan Goyal, Gaurang Kaushik, Dounia Moujahid, Mert Özkılıç, Nathan Power, Hitesh Purushothama, Keerthana Reddy Devaraj, Sayed Salahuddin, Aakriti Singh



Based at the Institute for Advanced Architecture of Catalonia (IAAC), the Urban Sciences Lab (USL) is an interdisciplinary platform for critical thinking and innovative design working across the social, cultural, and environmental dimensions associated with contemporary urbanization.

CONTENTS



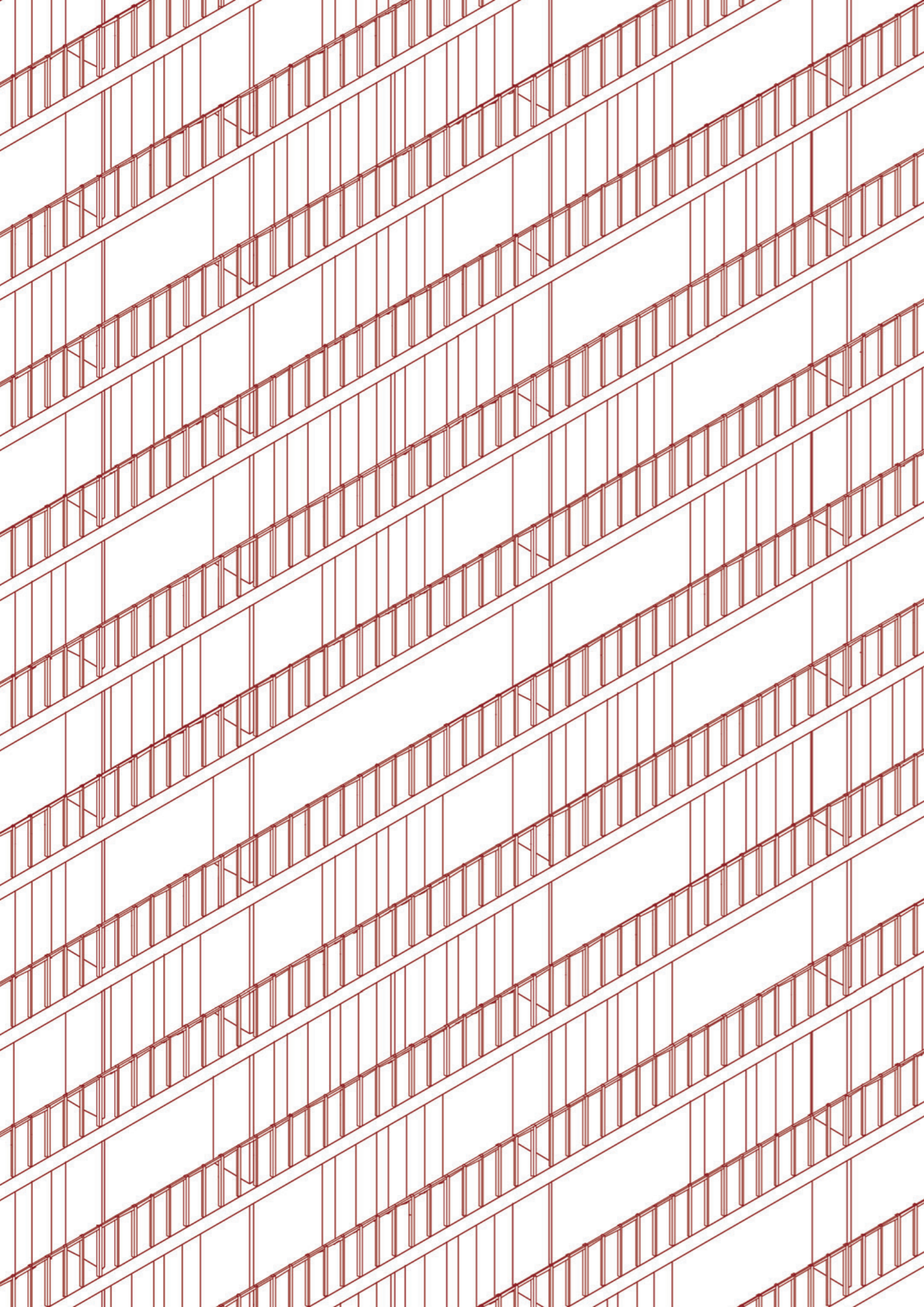
CATALOGUE OF HOUSING FORMS / LANDSCAPES

INTERMEZZO: BERLIN

TEMPELHOF PROJECT

21 JUNE 2023: FINAL REVIEW





COURSE DESCRIPTION

This studio explores the possibility of designing collective forms of housing as extra-extra-large and more-than-human, multigenerational urban infrastructure. Students will be asked to rethink the idea of the megastructure as a cooperative, technologically advanced, materially sustainable form of co-living and working, critically considering not only the spatialities, politics, and logics of communal forms, but also the relation between buildings, land-tenure, environmentally viable modes of production and construction, and other forms of life and intelligence (animals, plants, artificial actants) as preconditions for envisioning alternative imaginaries of collective inhabitation in the age of the Anthropocene and the rise of AI and advanced processes of urban automation and optimization. *Supracollectives* then signals a systematic exploration of the potential for (spatial, programmatic, technological, ecological) *amplification* of the historical typology of social housing as a radically upscaled, robust *collective counternarrative* to contemporary urban(ization) logics.

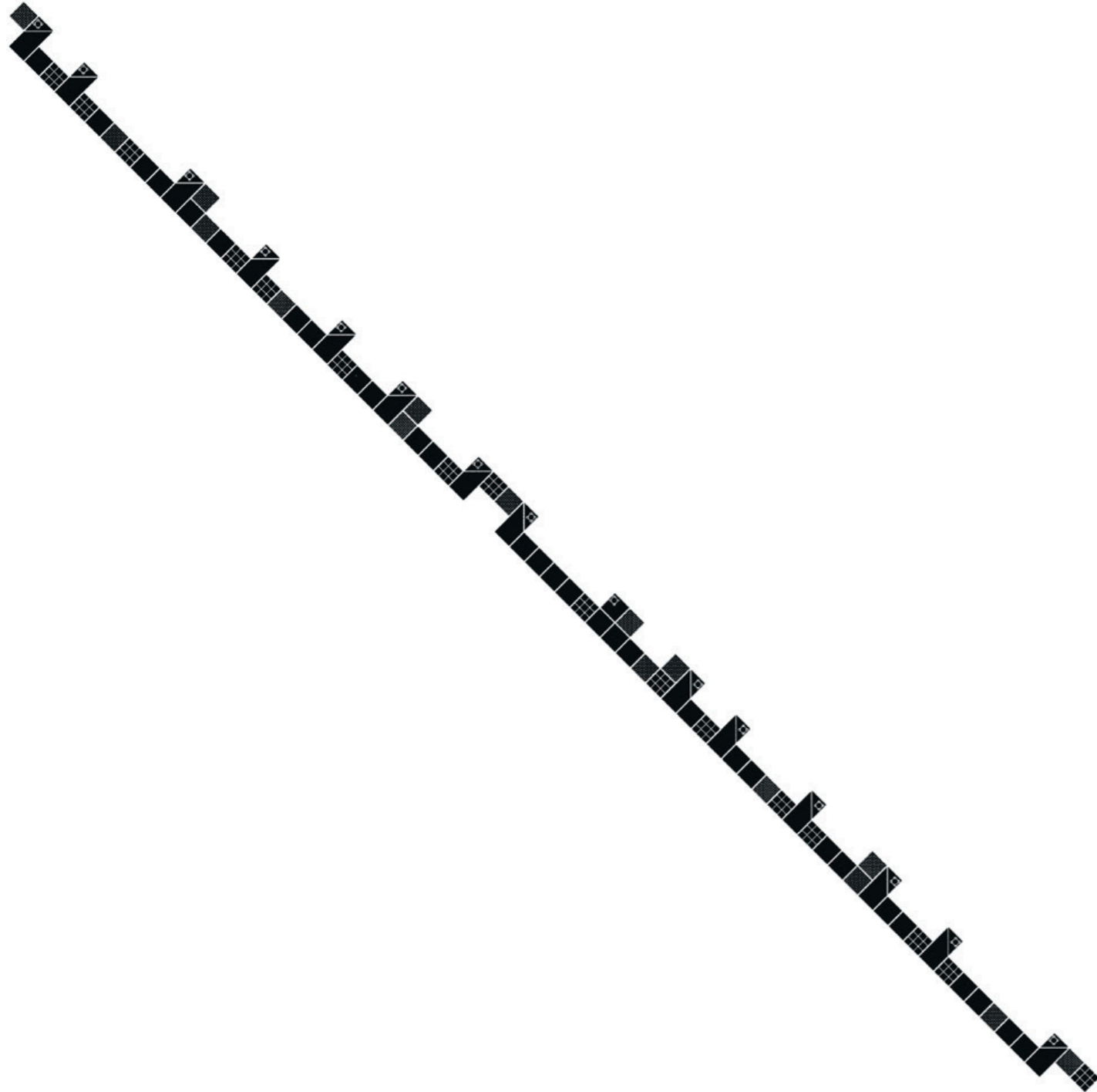
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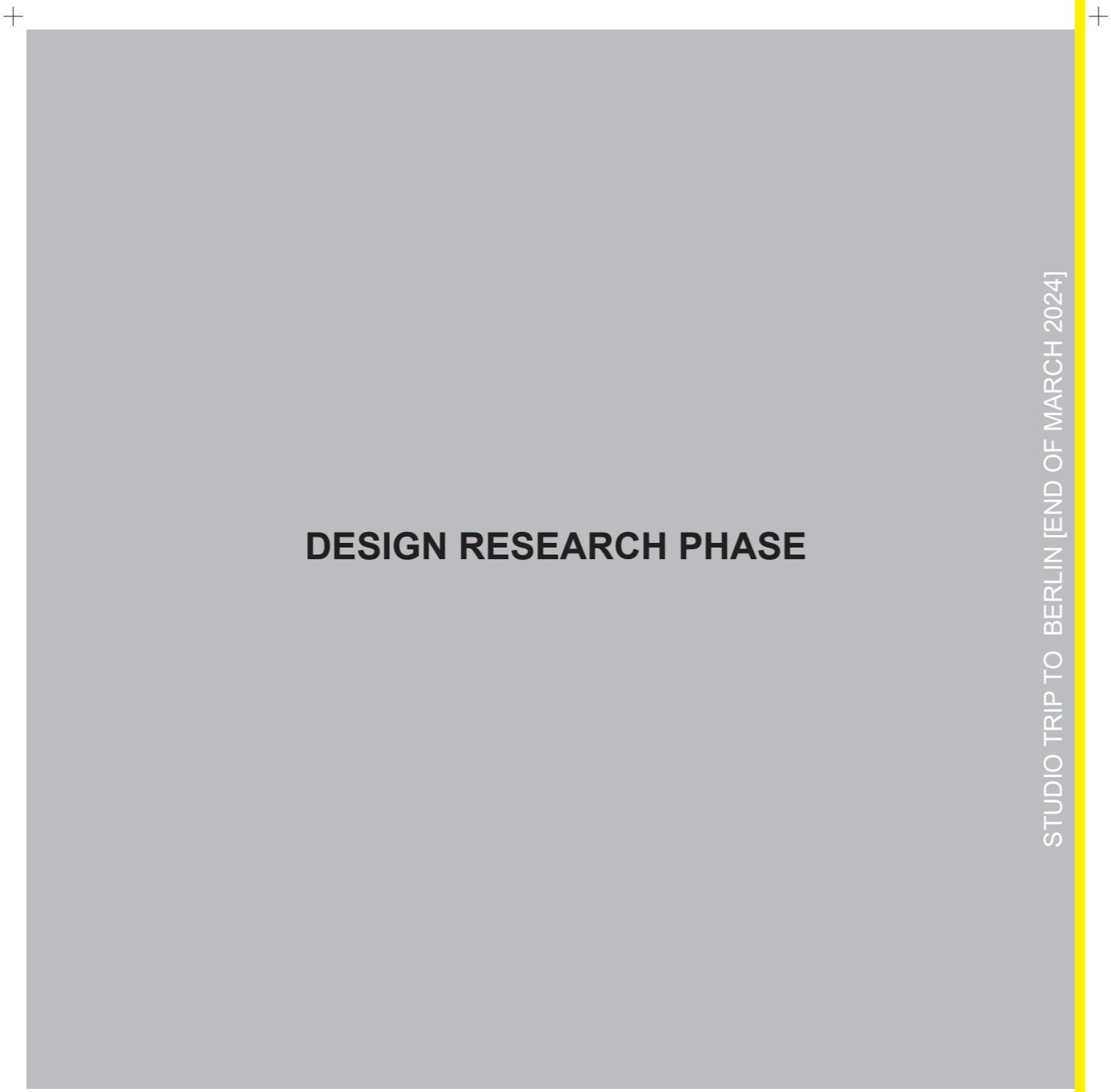
METHOD

The studio is planned as a hybrid pedagogical typology, actively and purposely mixing up research, critique, and speculative yet rigorous design, as well as encompassing a spectrum of learning and pedagogical strategies, from theoretical lectures to pin-up crits, from seminar-style sessions to applied design workshops. The objective of the research is to recognize and unfold the organizational potentials of blending historical housing and land-use models and contemporary ecological, functional, material, and programmatic collective inhabitation logics, with the overall intention of designing a radically expanded (more-than-human / extra-extra-large) co-housing urban form. A rigorous *critique* (conceptual as much as morphological) of such paradigmatic housing and land-use models is understood as a precondition for such a project—as much as a *speculative* approach is essential to envision radical scenarios for the future of housing in a global context defined simultaneously by the cascading effects of the [ongoing] climate crisis and the increasingly accelerated development of advanced technology.



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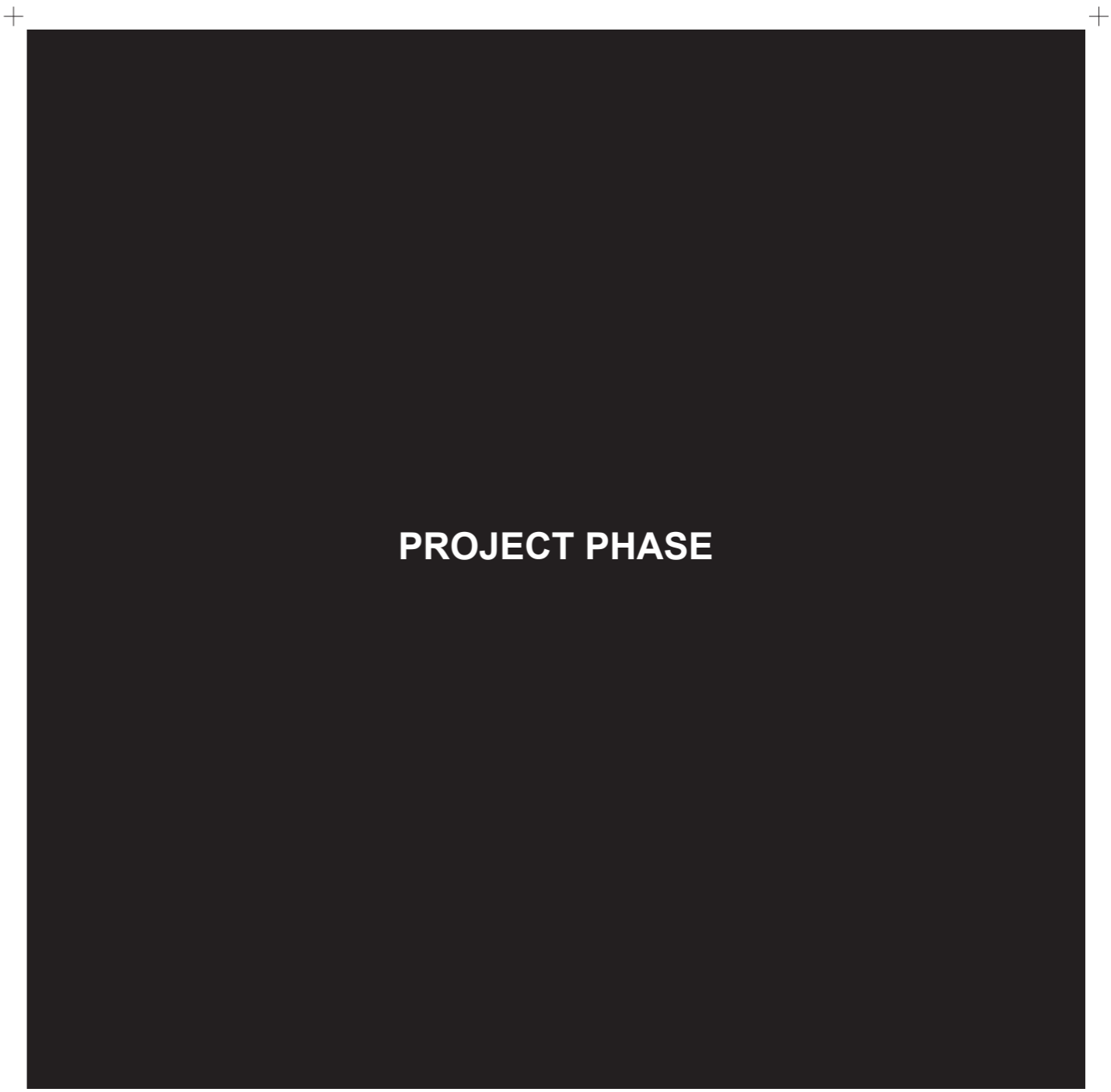
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DESIGN RESEARCH PHASE

STUDIO TRIP TO BERLIN [END OF MARCH 2024]

TERM 01 SITELESS



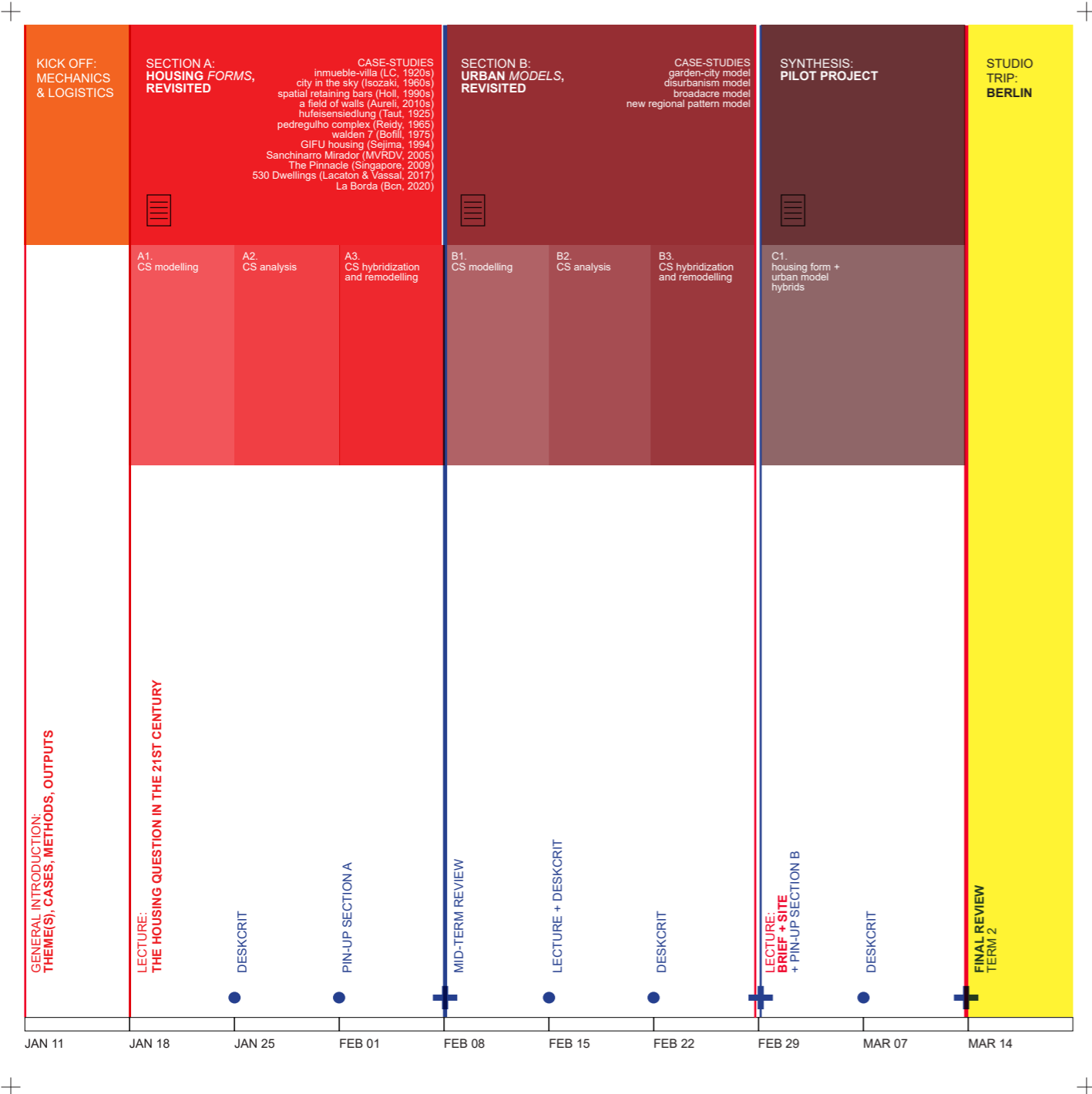
PROJECT PHASE

TERM 02 SITUATED

program: Master of Advanced Architecture
 course: X-Urban Design Studio
 instructor: Mariano Gomez Luque, Francisco Villeda
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 student assistant: Swohm Chattopadhyay

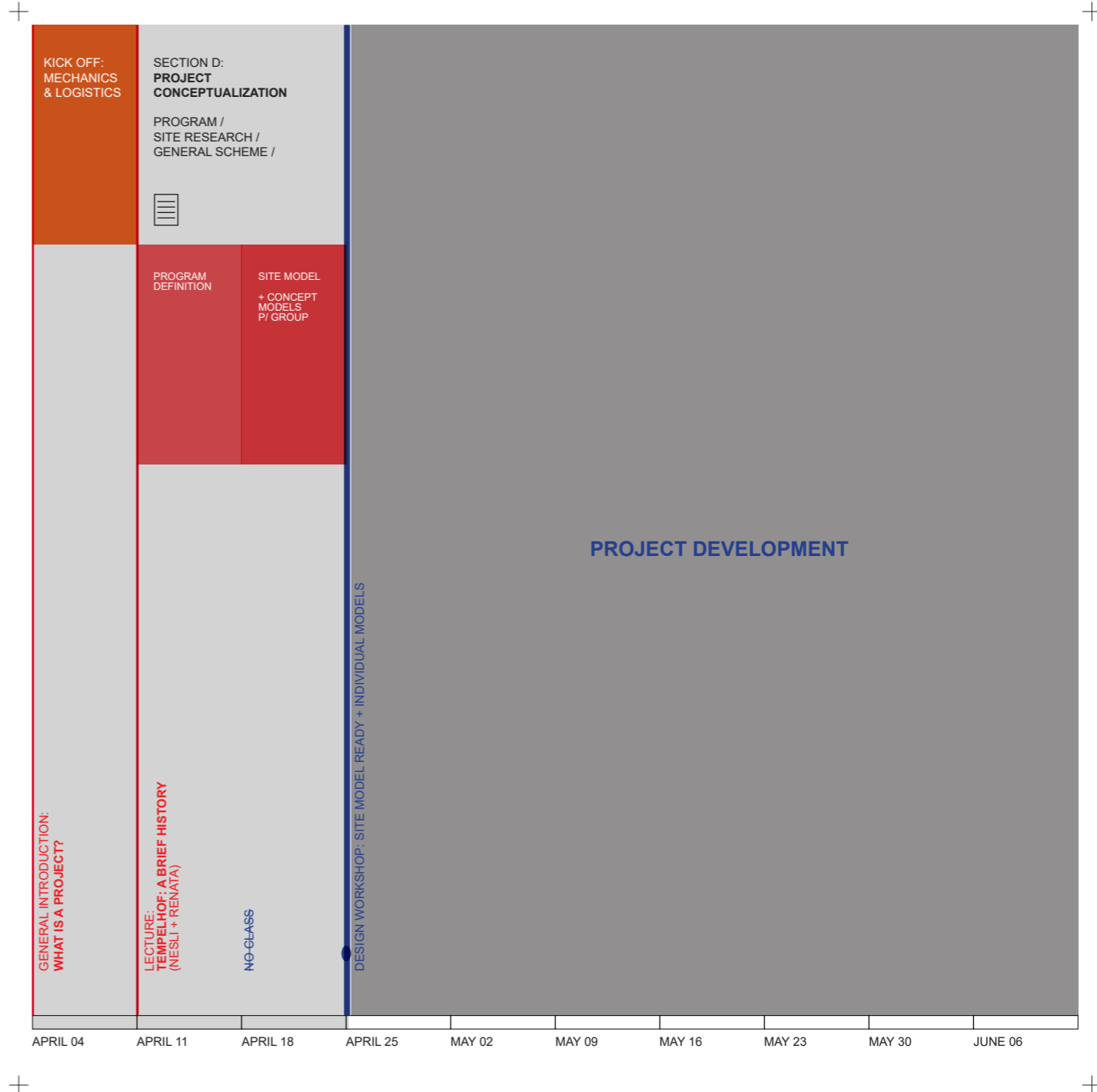


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TERM 01

- DESKCRITS
- + SUBMISSIONS / REVIEWS
- LECTURES
- SUBMISSIONS
- READINGS



TERM 02

CALENDAR / ACTIVITIES

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+ MARIANO GOMEZ-LUQUE is the director of the Urban Sciences Lab at the Institute for Advanced Architecture of Catalonia (IAAC), co-director of FORMA, an office for general architecture based in Córdoba, Argentina, and an affiliated researcher at the Urban Theory Lab in the University of Chicago. His research explores the intersections among the design disciplines, critical urban theory, and science fiction studies, with an emphasis on the status and potential of architectural production under conditions of planetary urbanization. Mariano holds a Doctor of Design (2019) and a Master of Architecture (2013) from Harvard GSD.

+ FRANCISCO VILLEDA is a Mexican architect, with more than 14 years of experience in managing international projects, competitions and design, as well as managing teams in complex projects with multiple clients and partners. He has a postgraduate degree in Advanced Architecture from the Institute for Advanced Architecture of Catalonia, and a second postgraduate degree in "Digital Techtonics", focused on parametric software and rapid prototyping technology. Paco has worked with architectural firms in Mexico, Spain and Denmark. He has had the opportunity to lecture and teach at other institutes, such as DIS Institute in Copenhagen, the Universidad Iberoamericana in Mexico City and The Royal Danish Academy of Arts and Architecture also in Copenhagen.

+ NESLIHAN GÜLHAN is an architectural designer with a passion in nature-based solutions and 3D prototyping. She has completed her Bachelor's (Honours) in Architecture degree at University of Westminster in 2019. After graduation she started working at NODE Architects, in Istanbul, where she was involved in project management of the graphics team for competition projects of different scales. She recently graduated from Masters in Advanced Architecture programme at IAAC where her research focuses on air particles and urban greenery. Her thesis aims to design a framework which is used for an agent-based modelling algorithm to design a growth pattern for the urban vegetation to bring new strategies to particles in air and urban design.

+ SWOHM CHATTOPADHYAY is an architect from India with a strong interest in digital fabrication. He completed his Bachelor's degree in Architecture at the Lokmanya Tilak Institute for Architecture and Design Studies (LTIADS), India, in 2020. Currently, he is pursuing his thesis in the second year of his Master's in Advanced Architecture at IAAC, Barcelona, where he gained hands-on experience in architectural construction and event-related work.

+
Instructor

+
Instructor

+
Faculty Assistant

+
Student Assistant

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CATALOGUE OF HOUSING FORMS / LANDSCAPES

INTERMEZZO: BERLIN

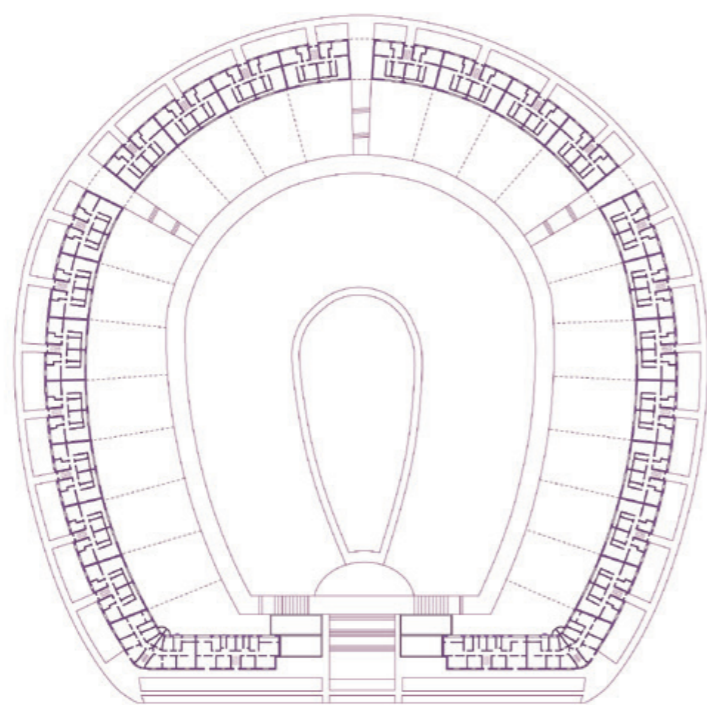
TEMPELHOF PROJECT

21 JUNE 2023: FINAL REVIEW

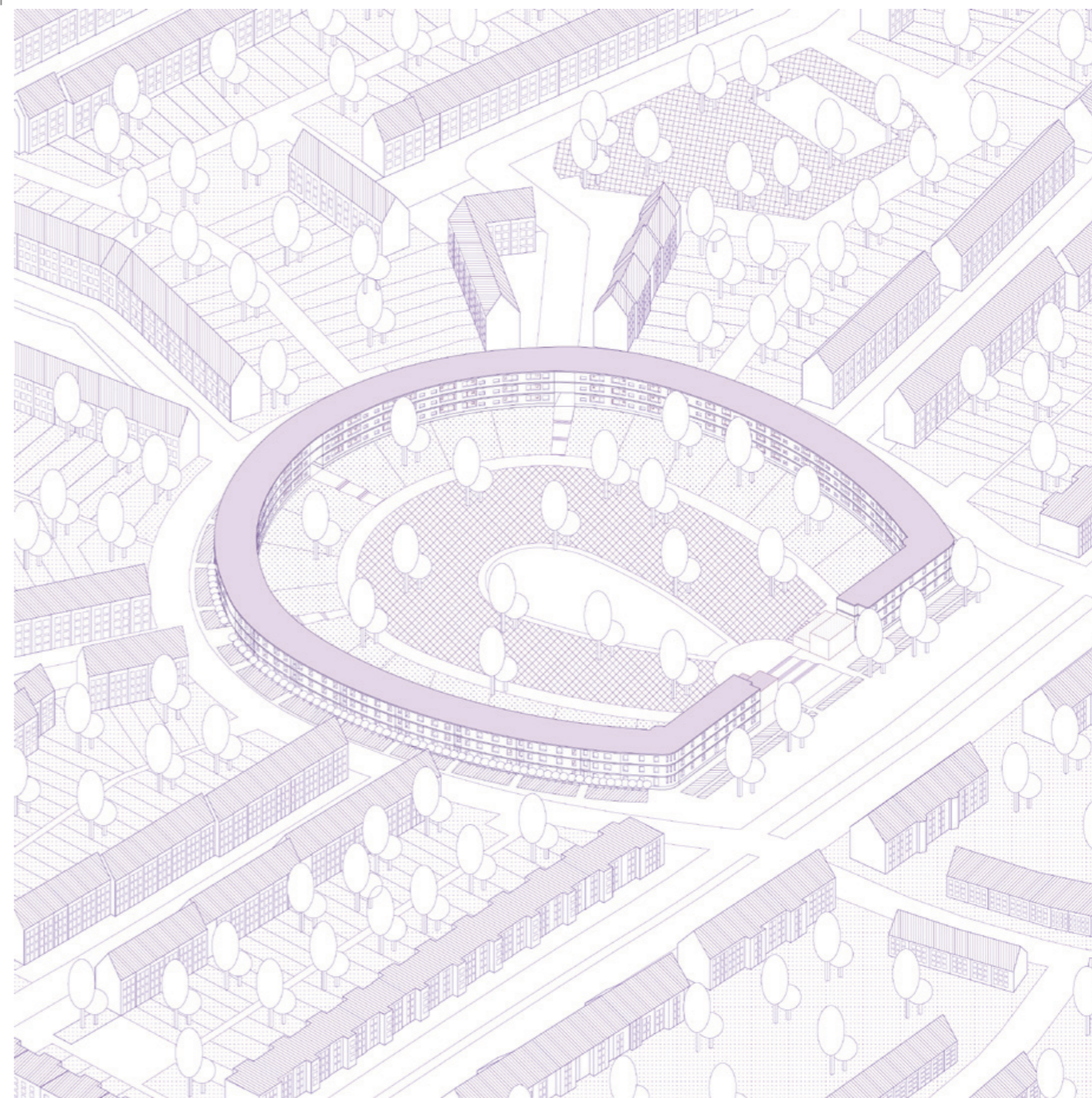
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Hufeisensiedlung_plan



Hufeisensiedlung_site context

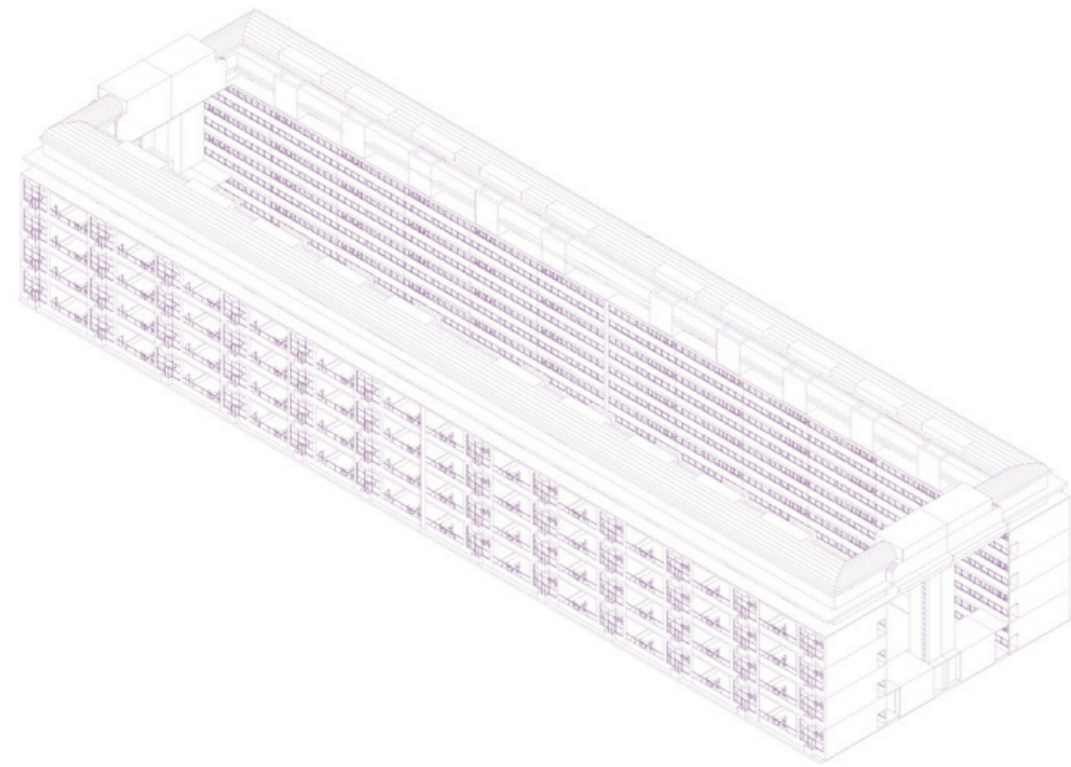
Muskan Goyal

Muskan Goyal

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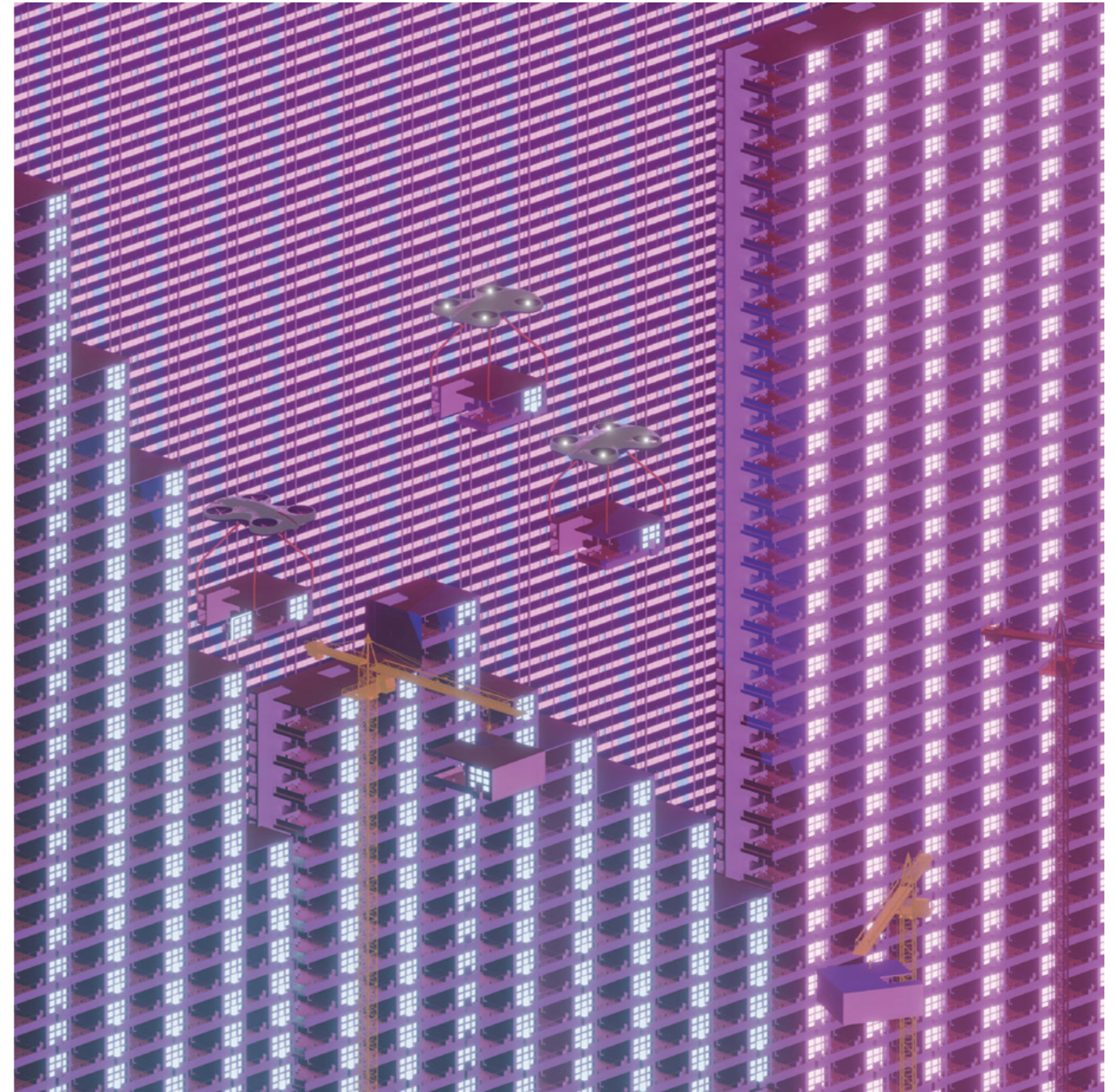


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Sayed Salahuddin

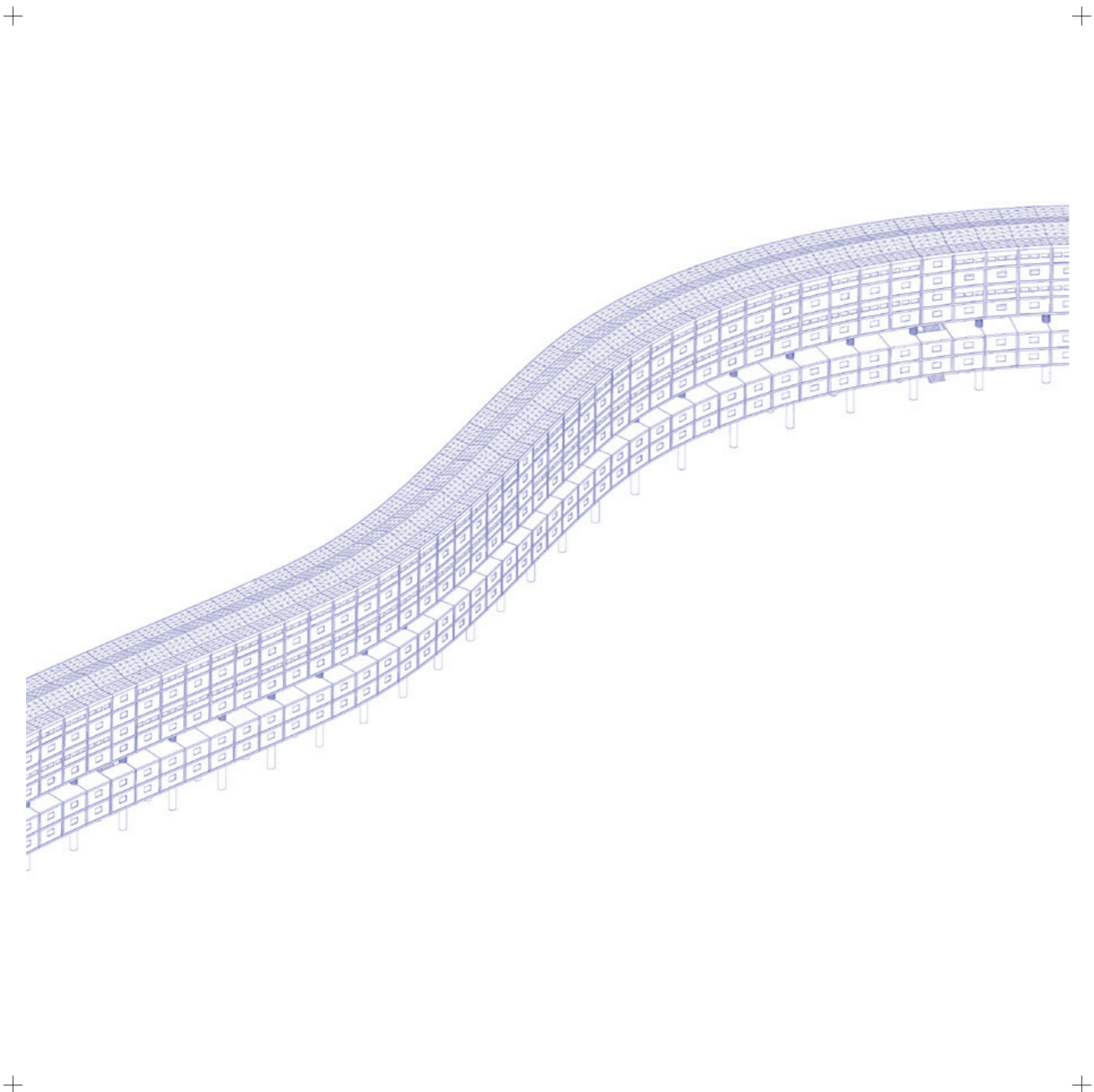
Immueble Villa_axo



Sayed Salahuddin

Immueble Villa_what if

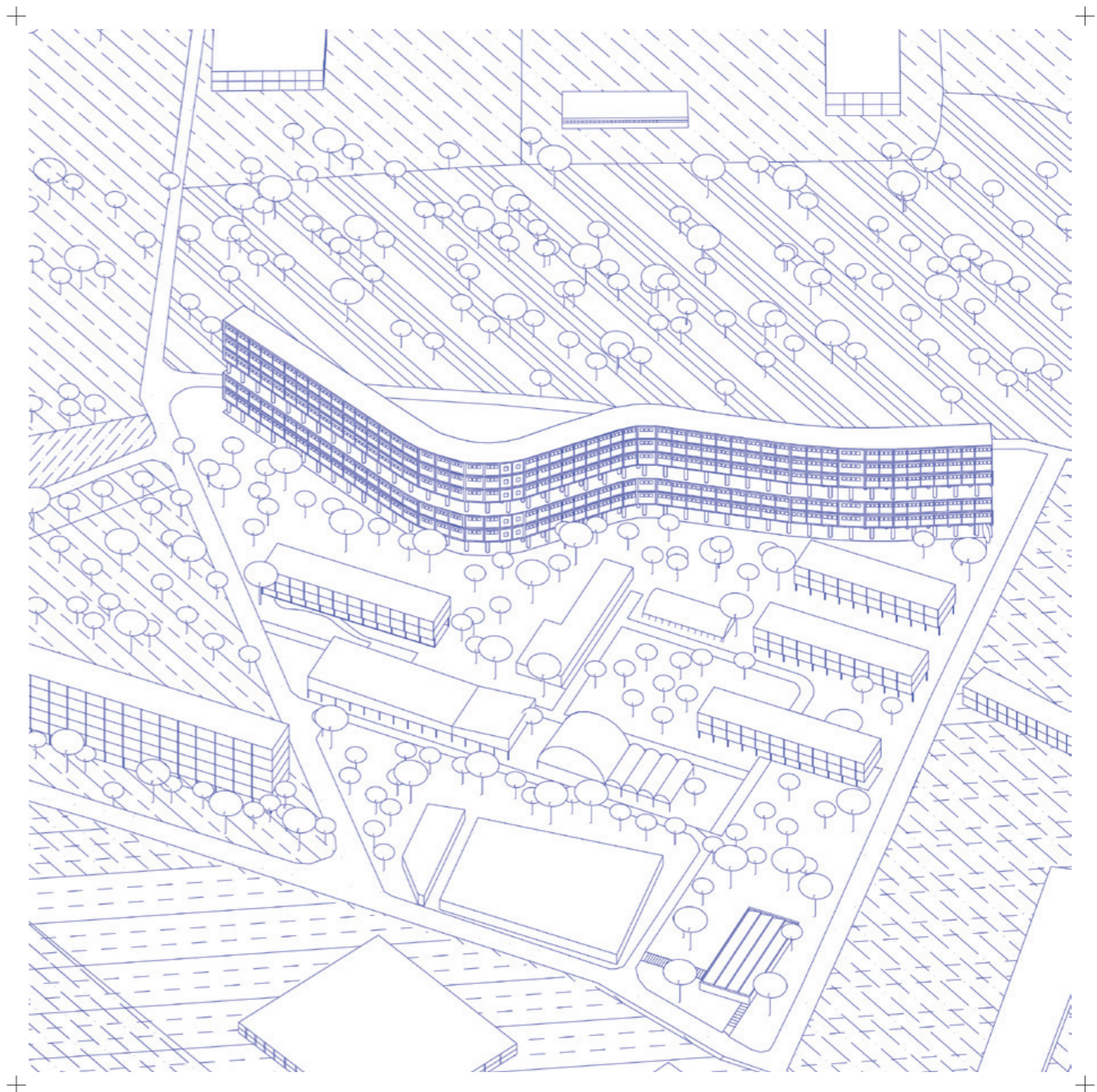
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Dounia Moujahid

housing in Rio de Janeiro_axo

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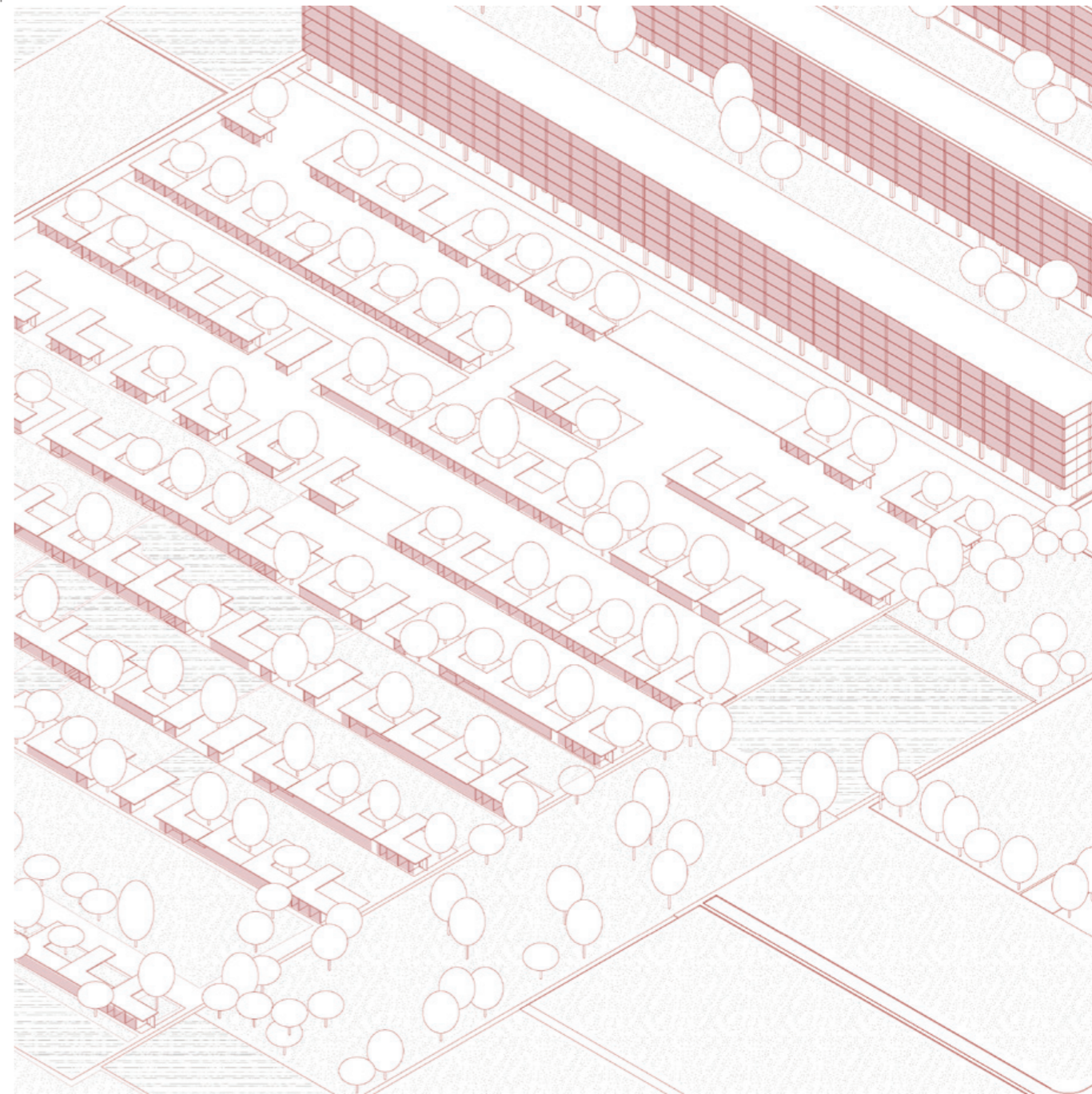
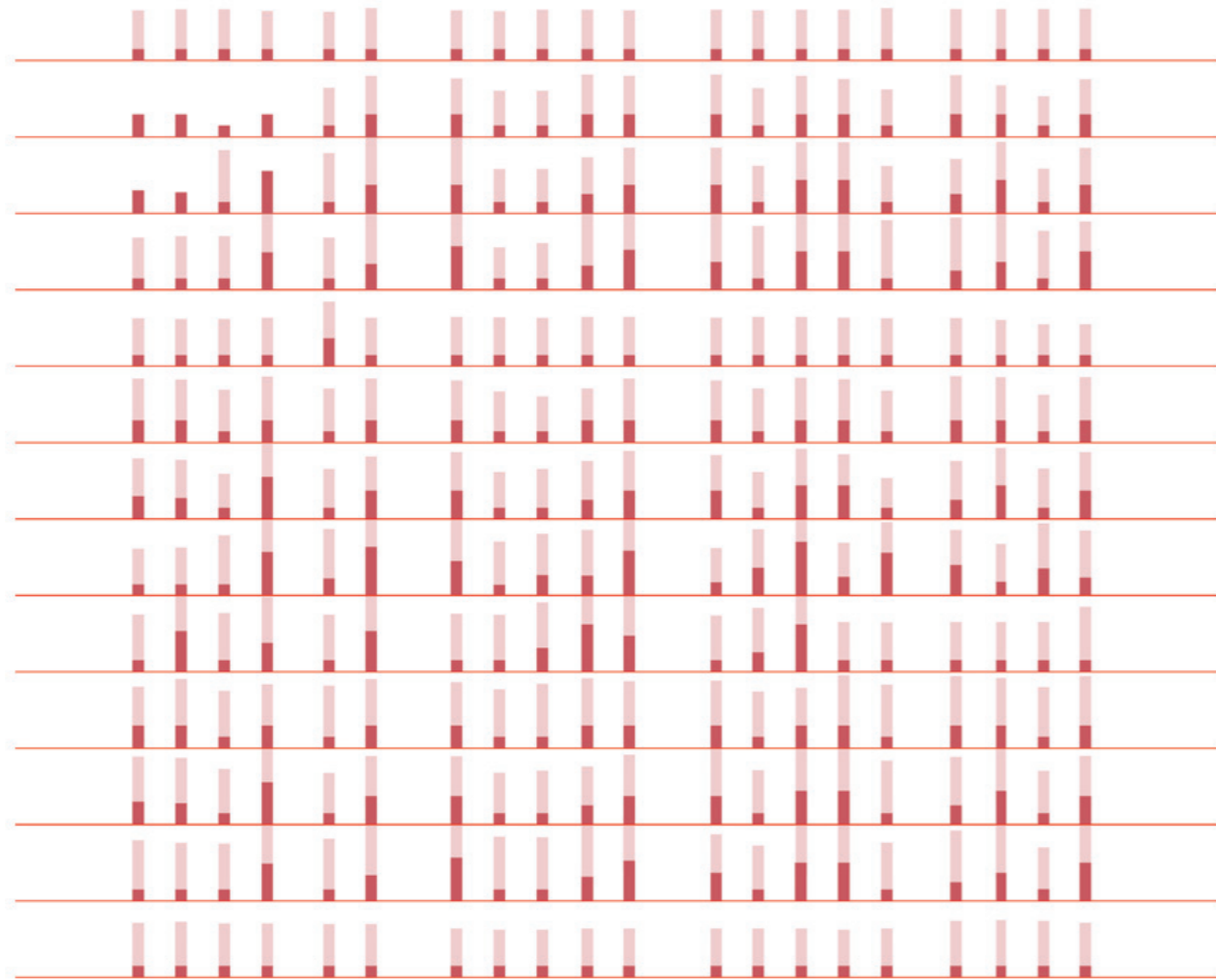
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Naji Altala

DOGMA housing_section

Naji Altala

DOGMA housing_axo

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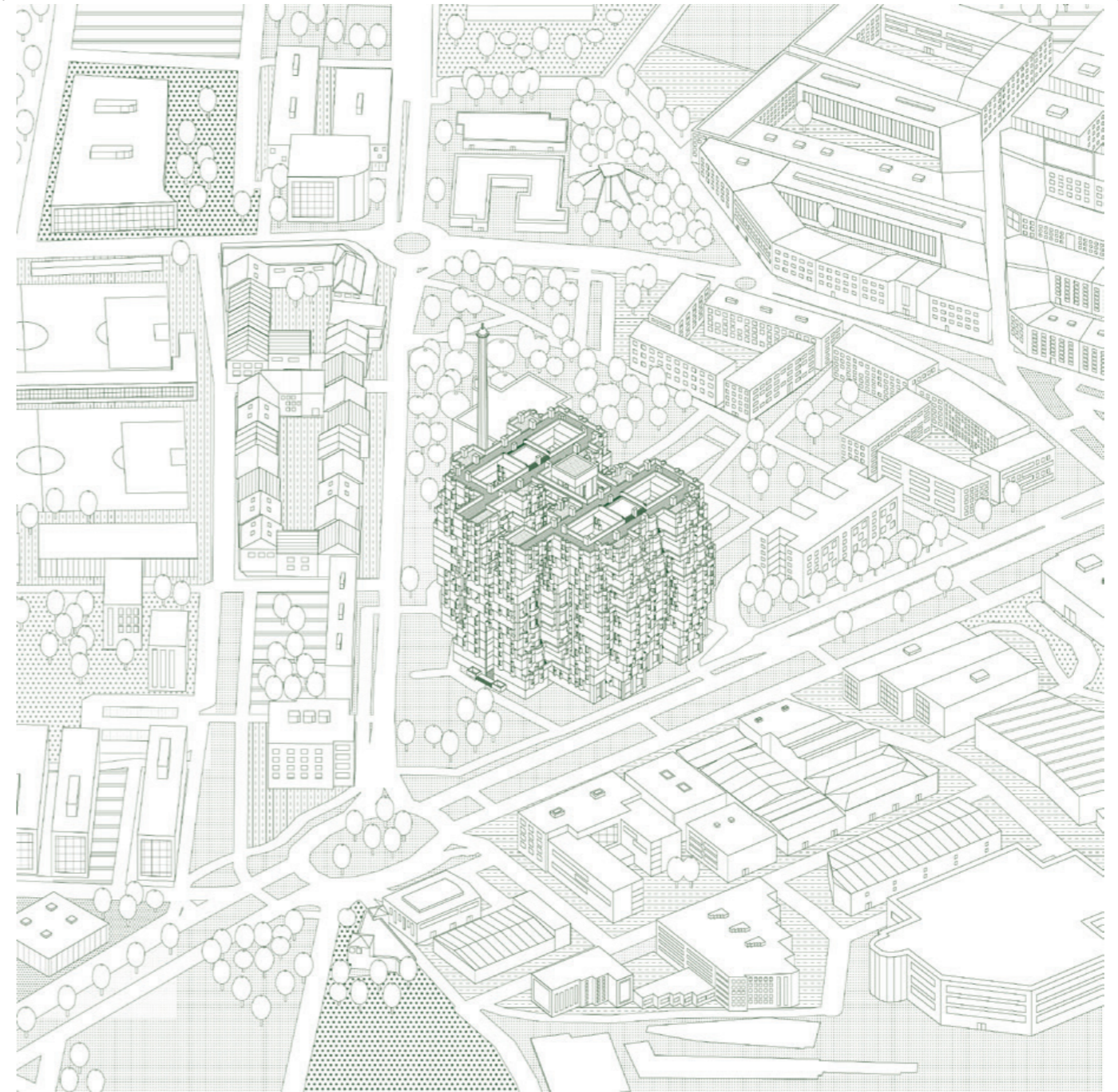


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Walden 7_frontal axo

Gaurang Kaushik



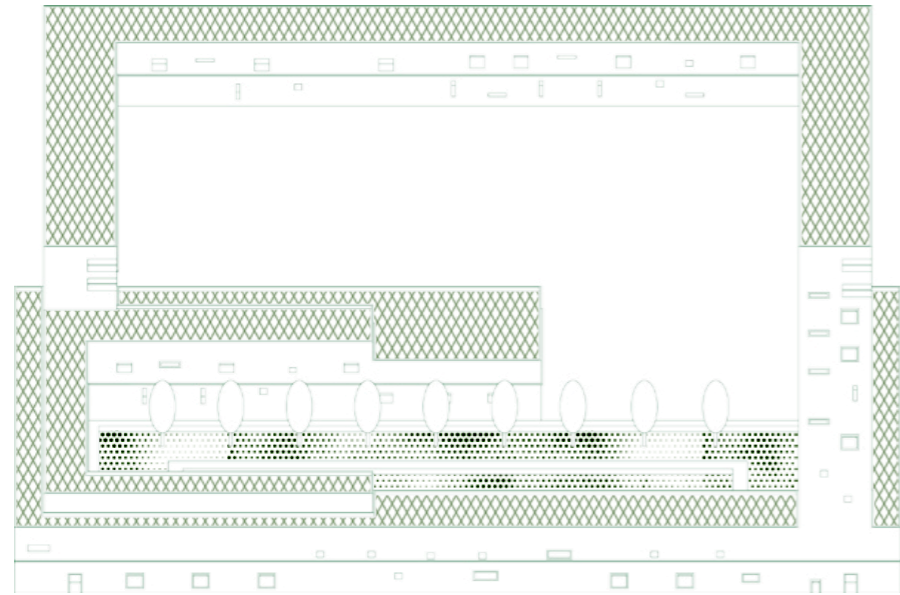
Walden 7_site axo

Gaurang Kaushik

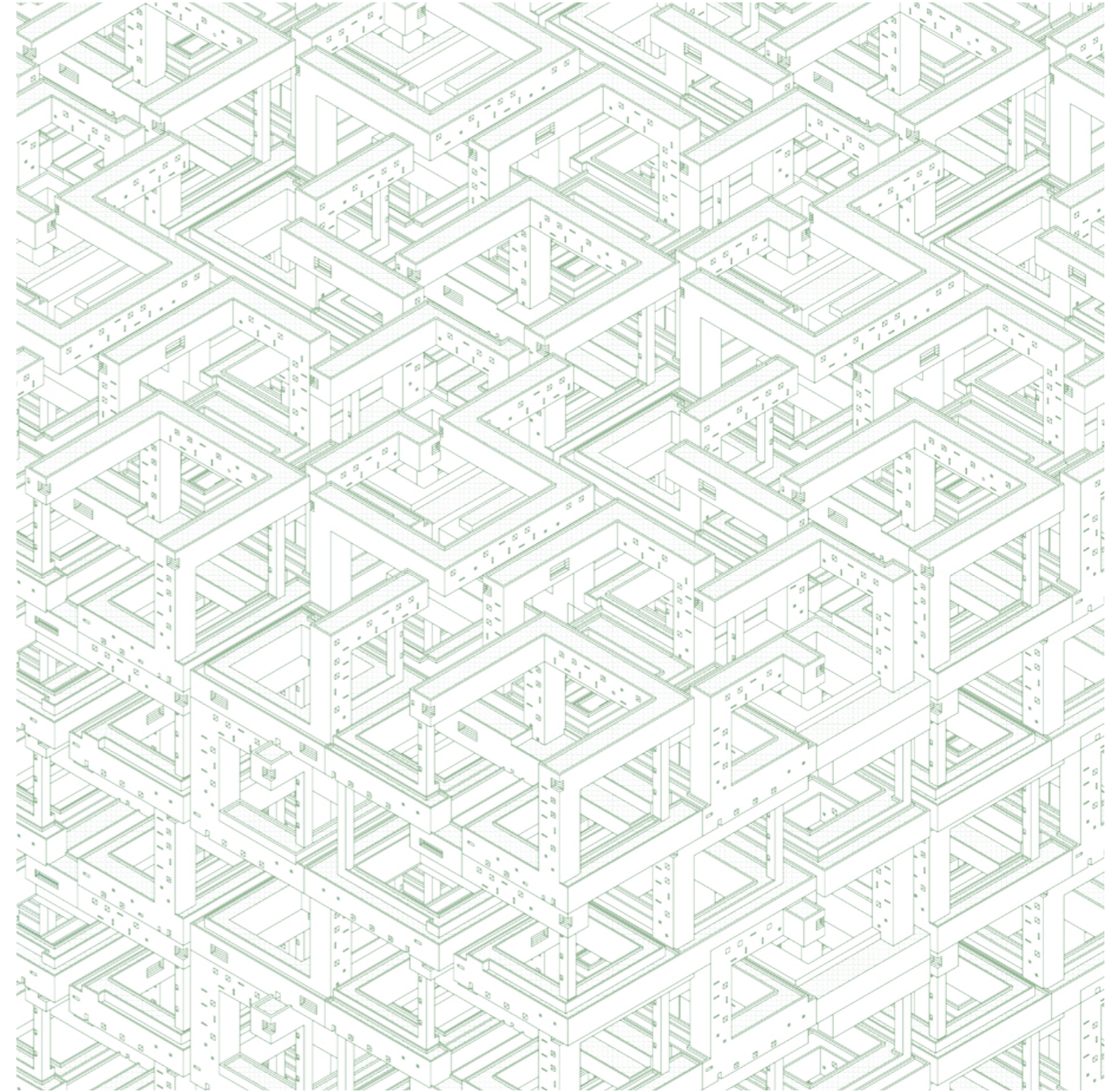
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Spatial Sectors_frontal axo



Spatial Sectors_what if

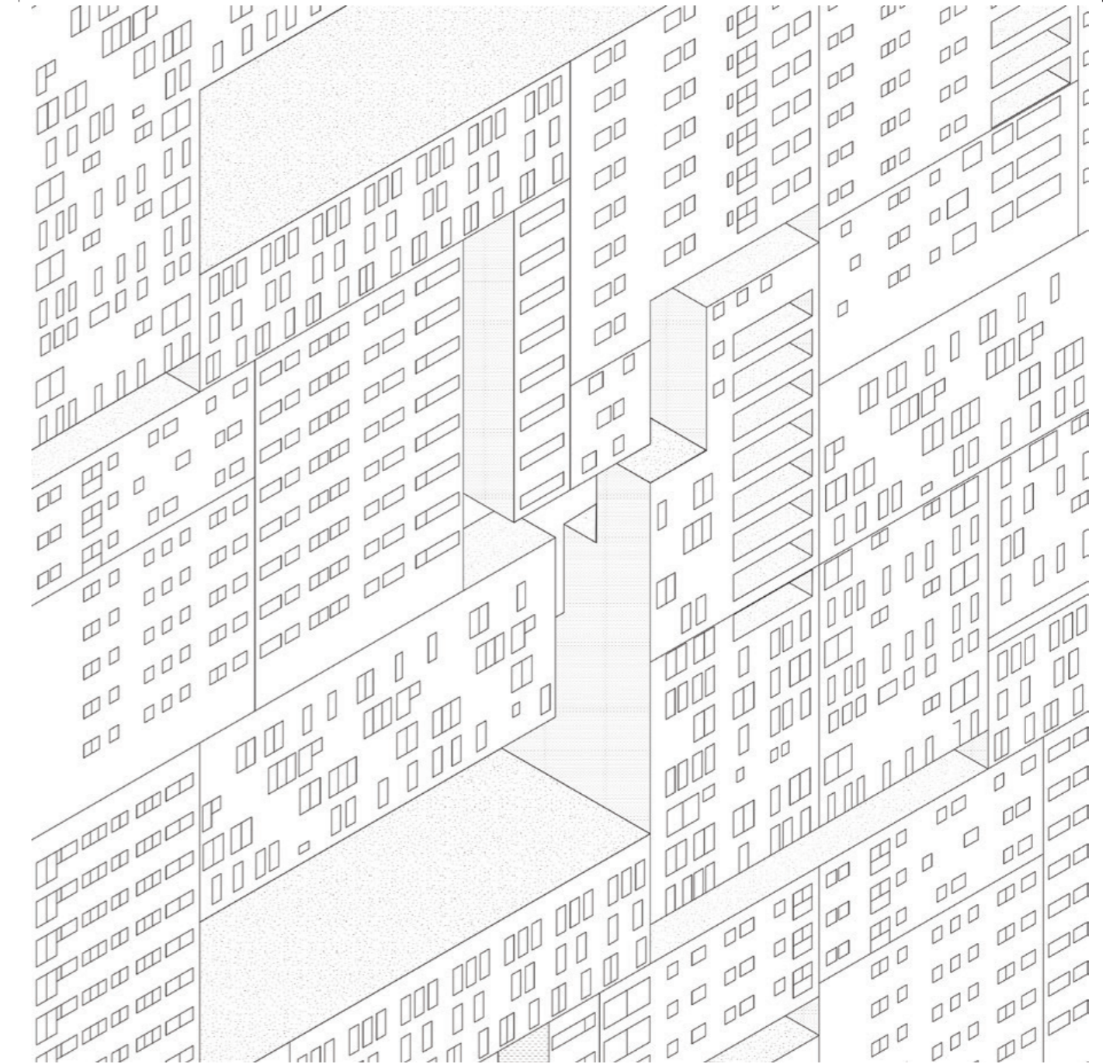
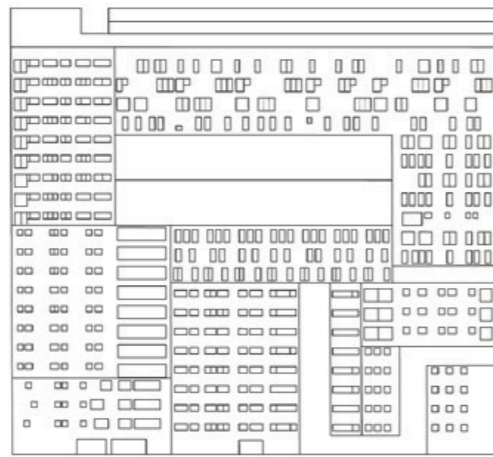
Keerthana Reddy

Keerthana Reddy

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Mert Özkılıç

housing in Sanchinarro_frontal axo

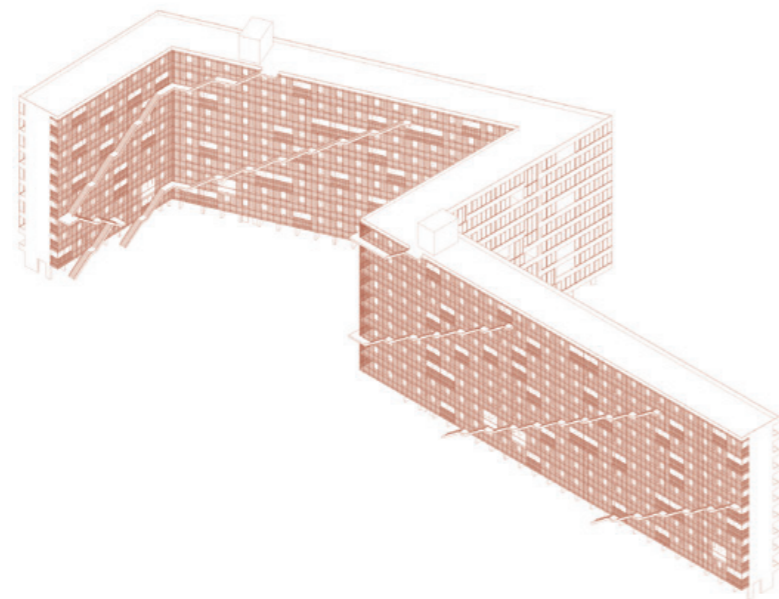
Mert Özkılıç

housing in Sanchinarro_what if

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Aakriti Singh

housing in Gifu_axo

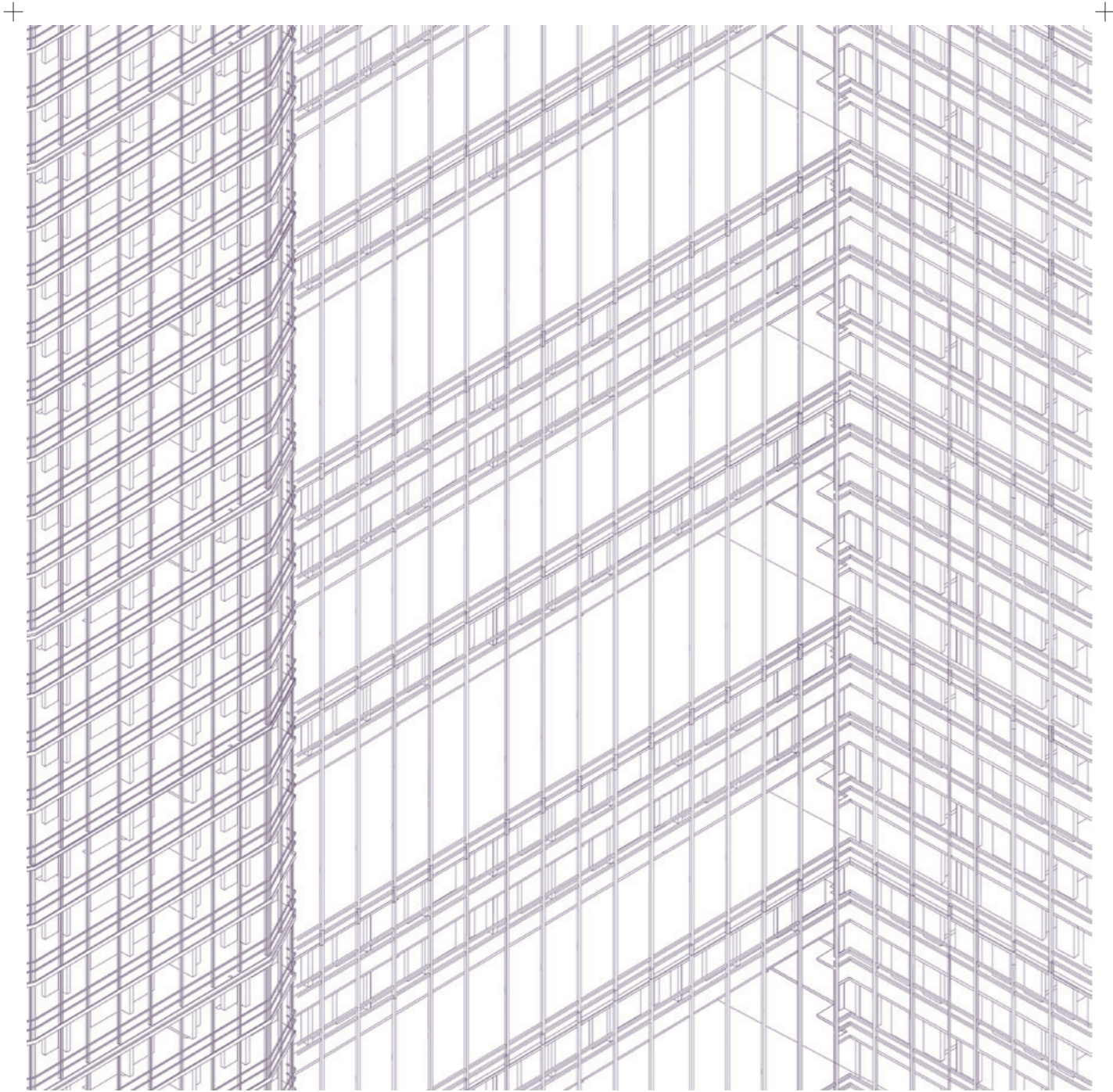


Aakriti Singh

housing in Gifu_typological catalogue



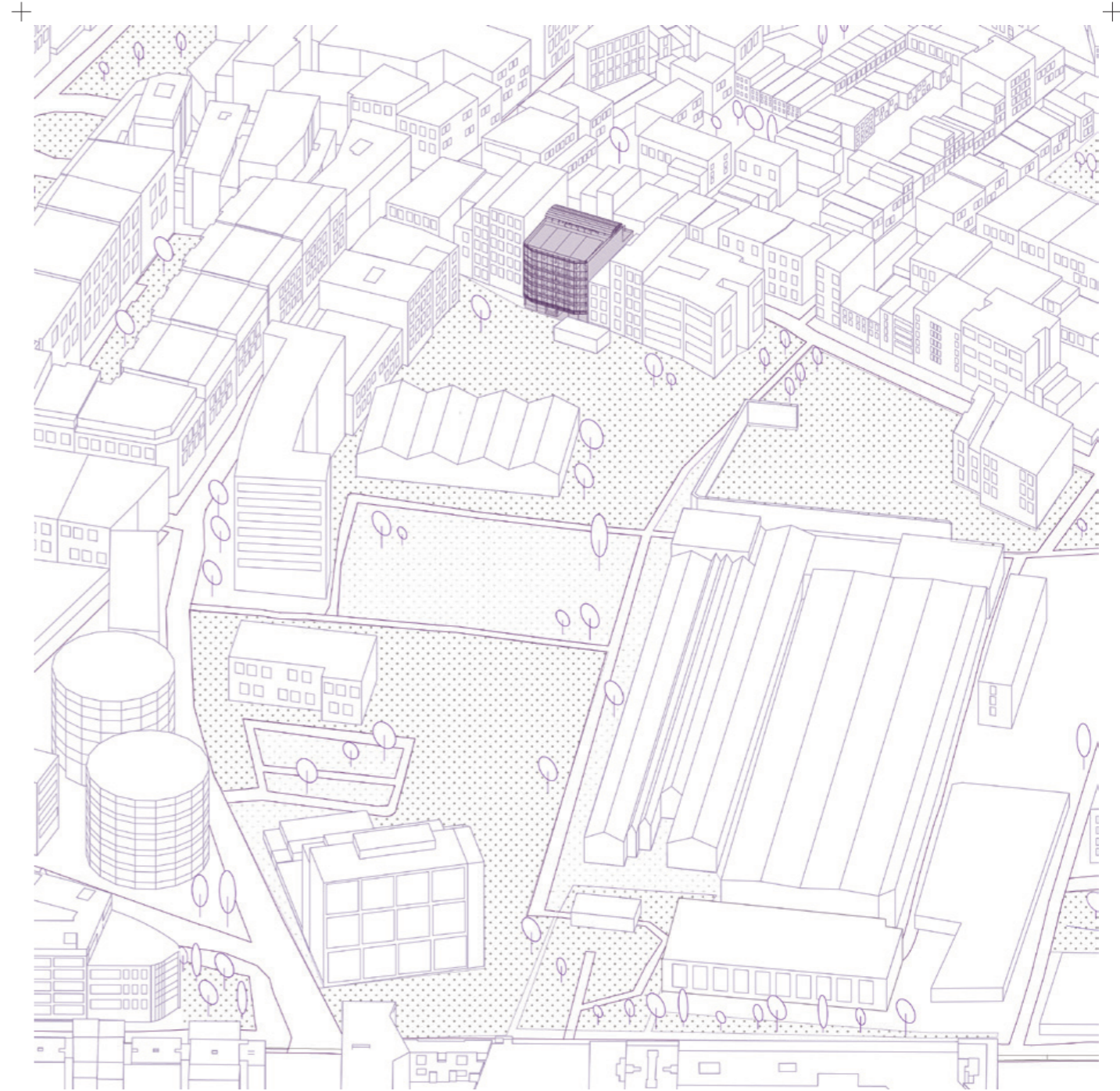
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Nate Power

La Borda_what if

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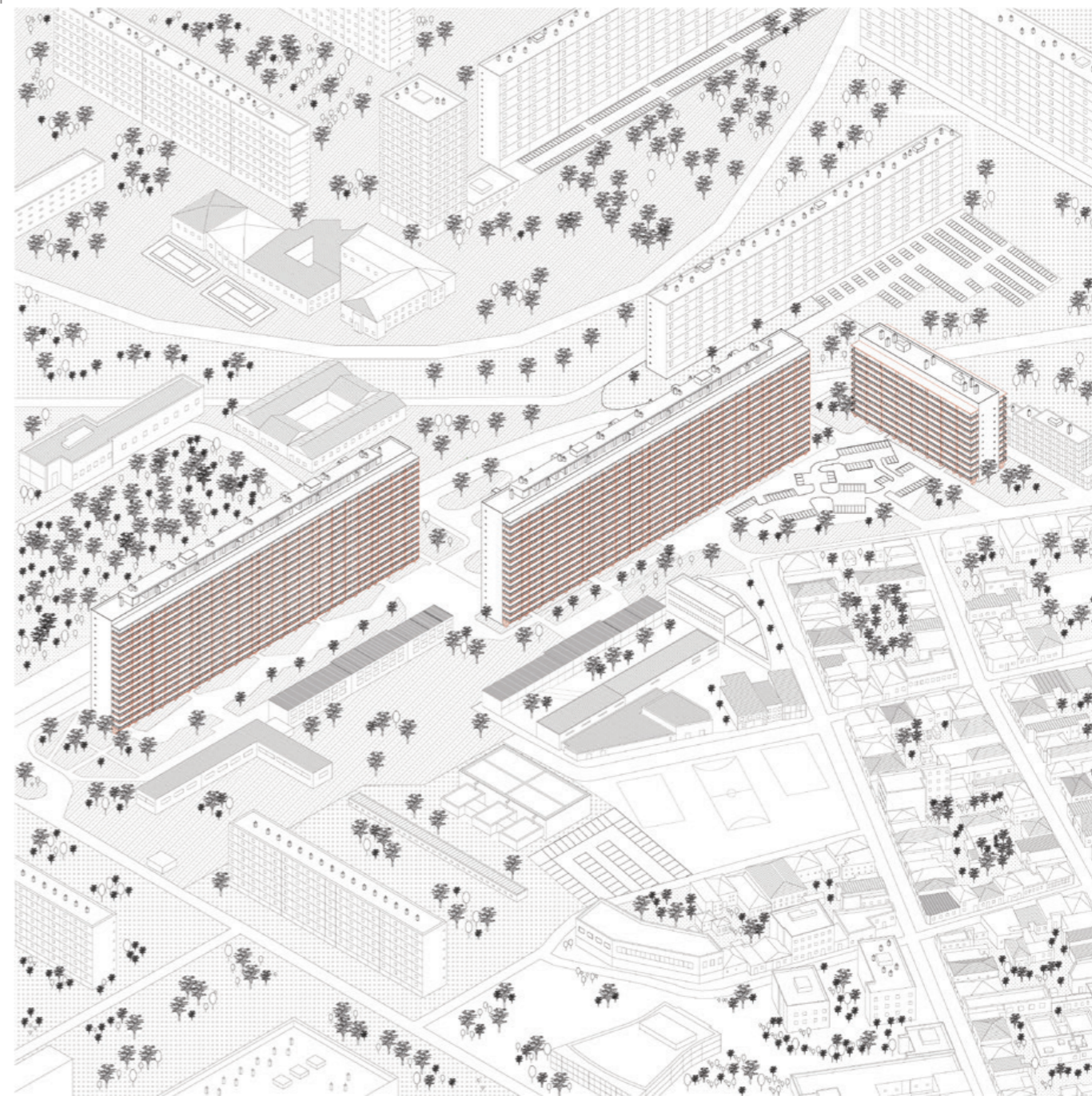
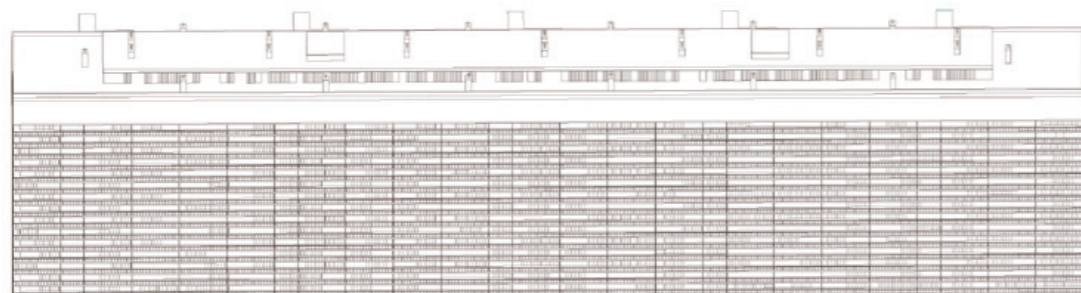
Nate Power

La Borda_site axo

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Dana El Hajjar

530 dwellings_frontal axo

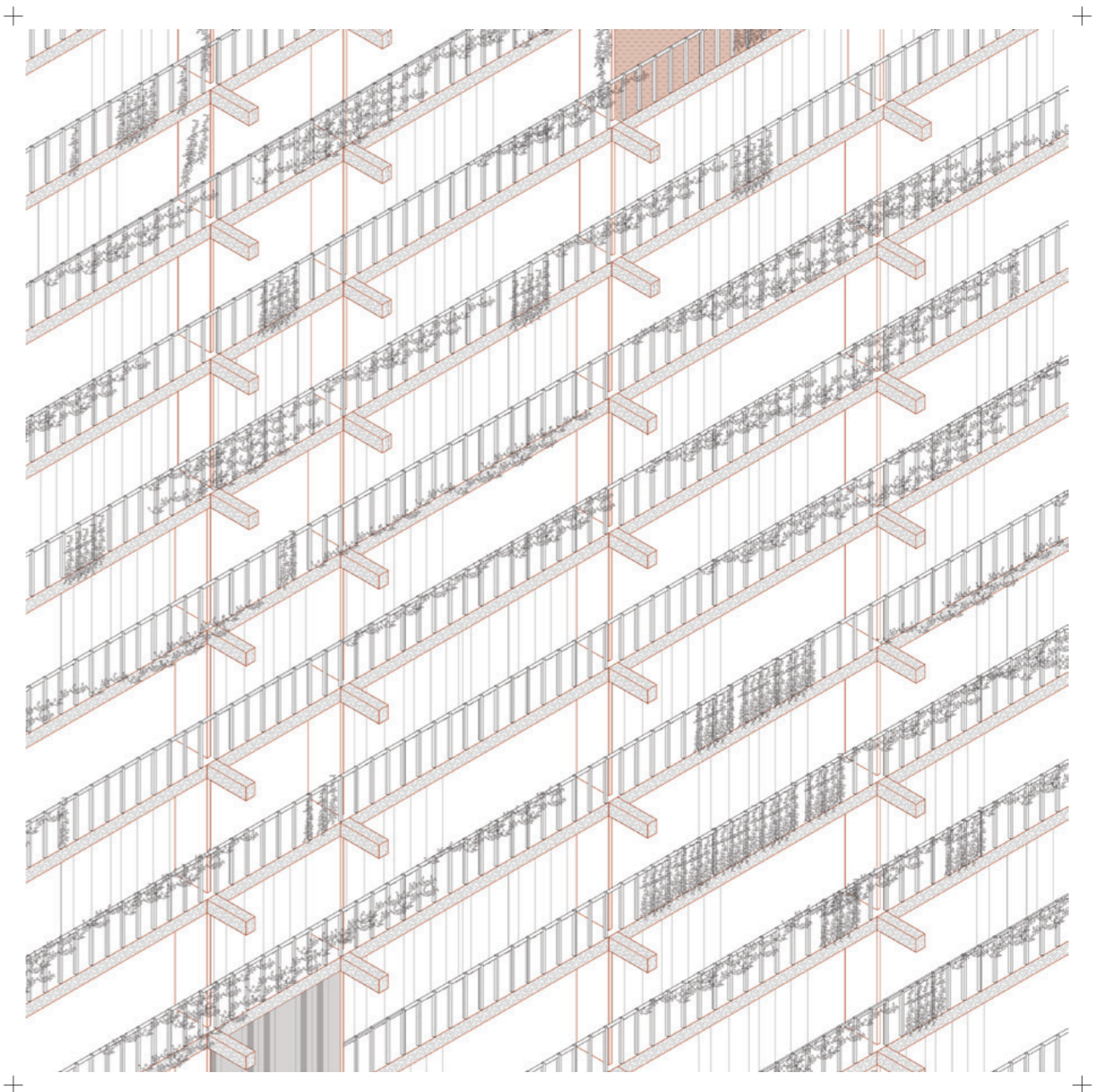
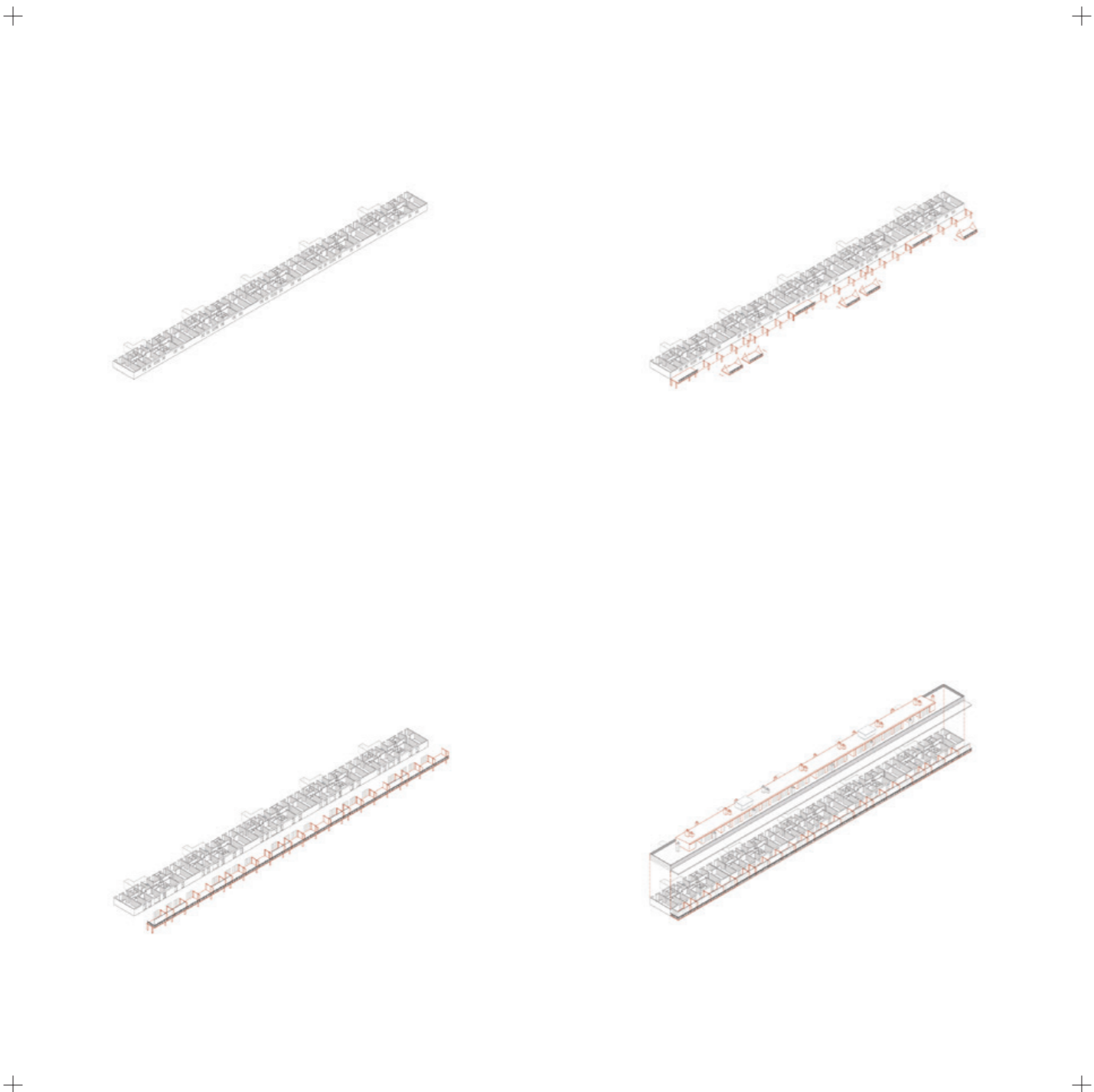
Dana El Hajjar

530 dwellings_site axo

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Dana El Hajjar

530 dwellings_selected plans_axo

Dana El Hajjar

530 dwellings_what if

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Mert Özkılıç

what if_image



Dana El Hajjar

what if_image

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Gaurang Kaushik

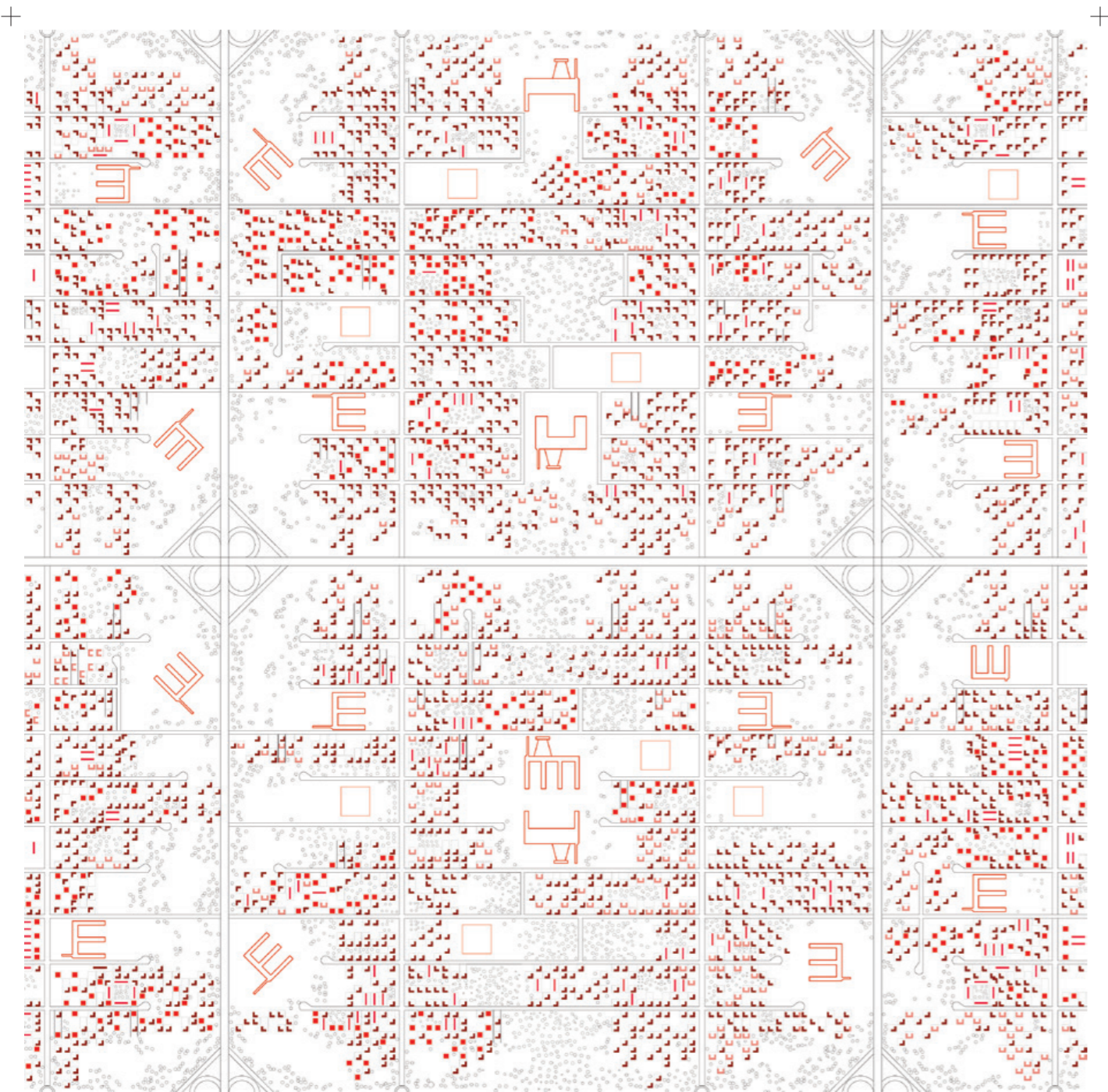
what if_image



Keerthana Reddy

what if_image

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Dana El Hajjar

Hilberseimer, revisited

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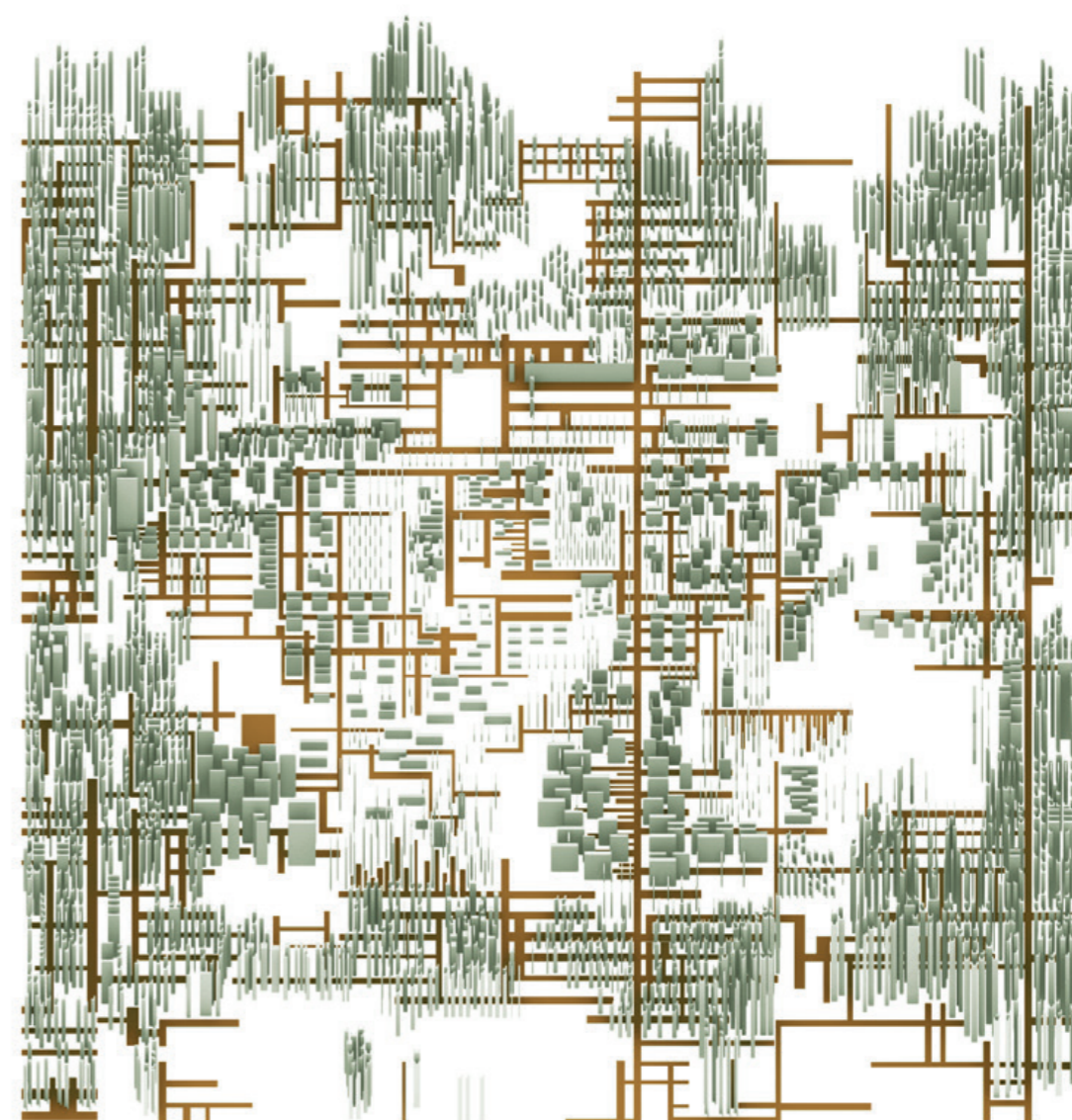
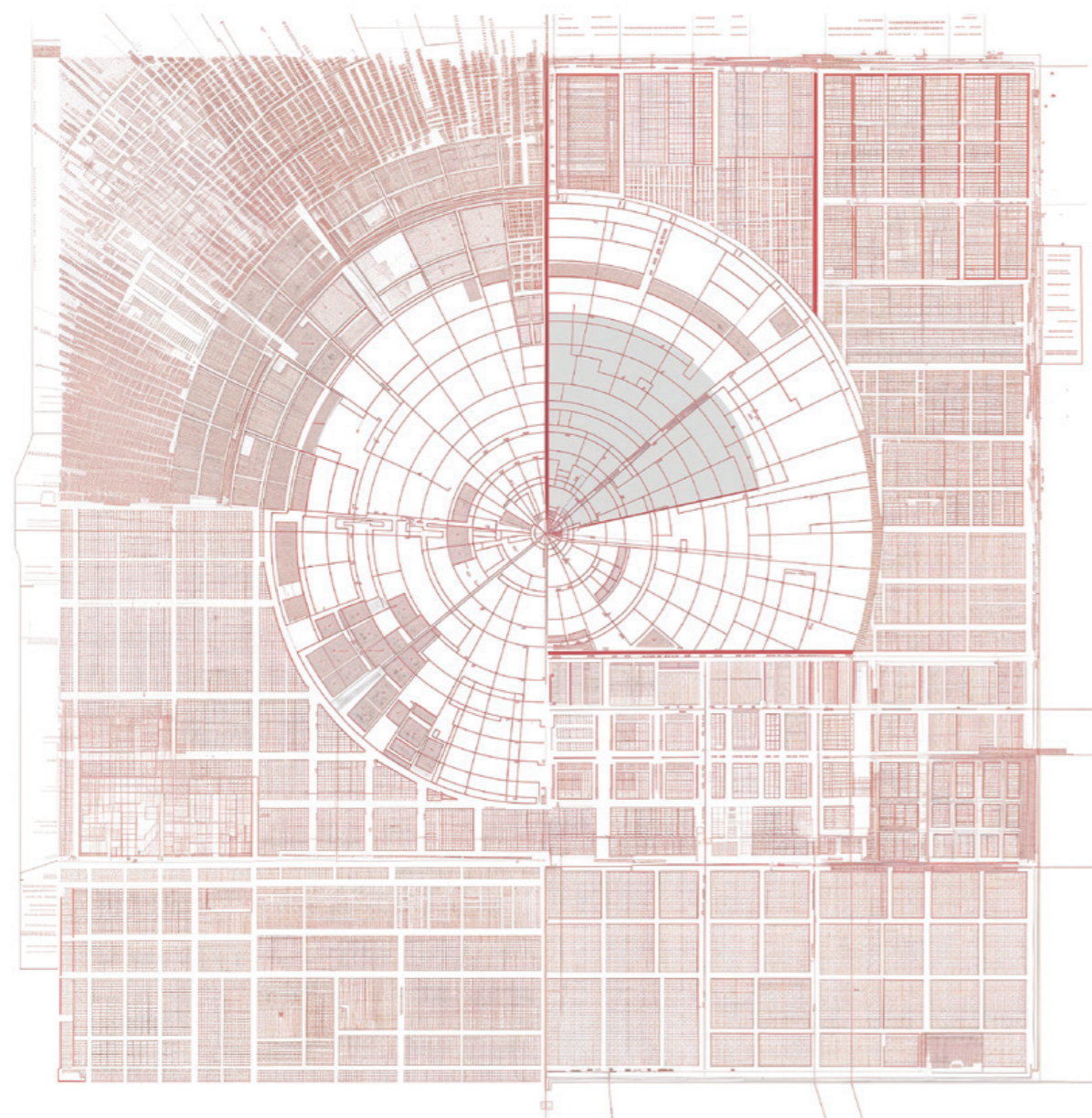
Naji Altala

Hilberseimer, revisited

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Naji Altala

Hilberseimer, revisited

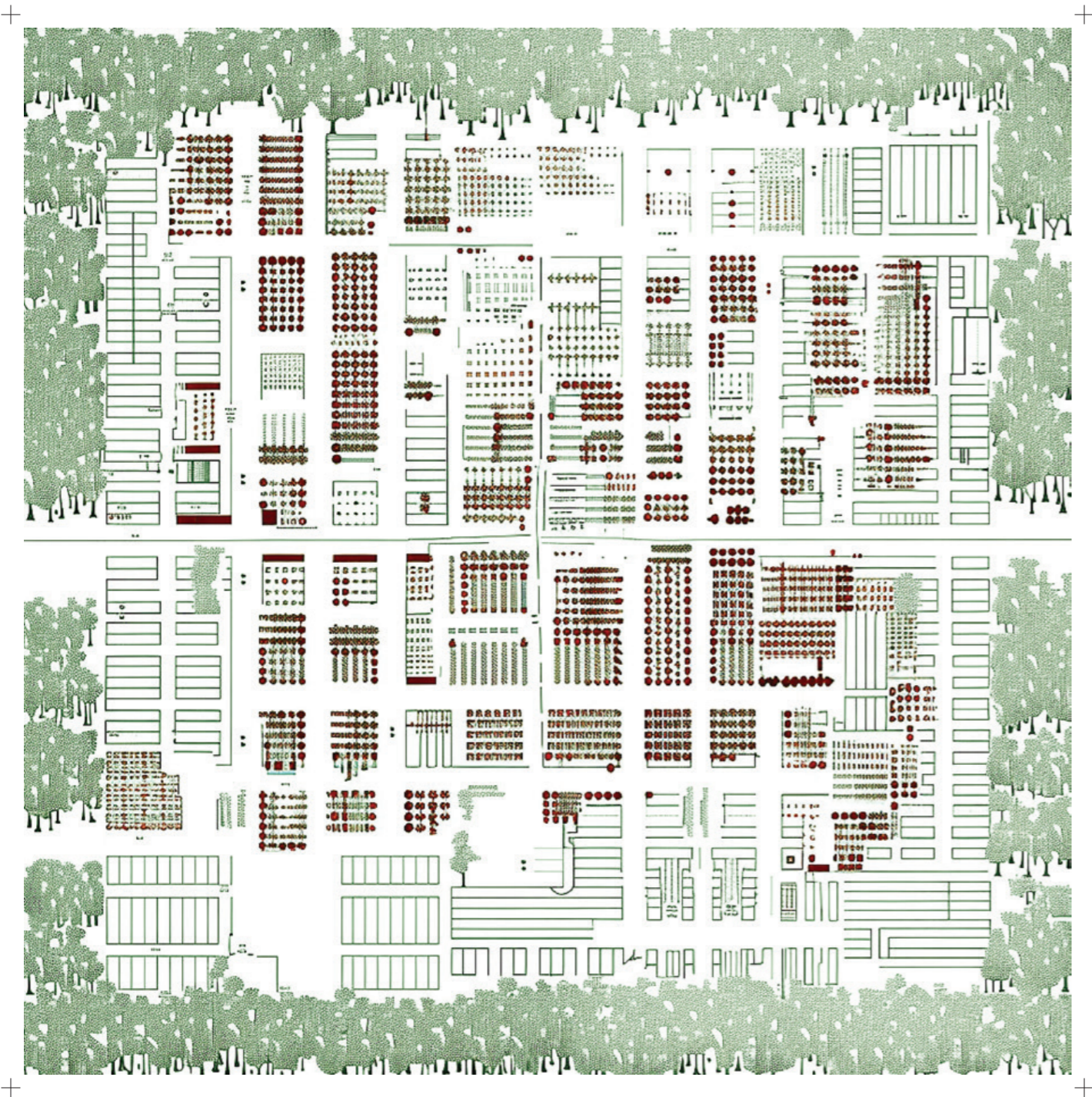


Dana El Hajjar

Hilberseimer, revisited



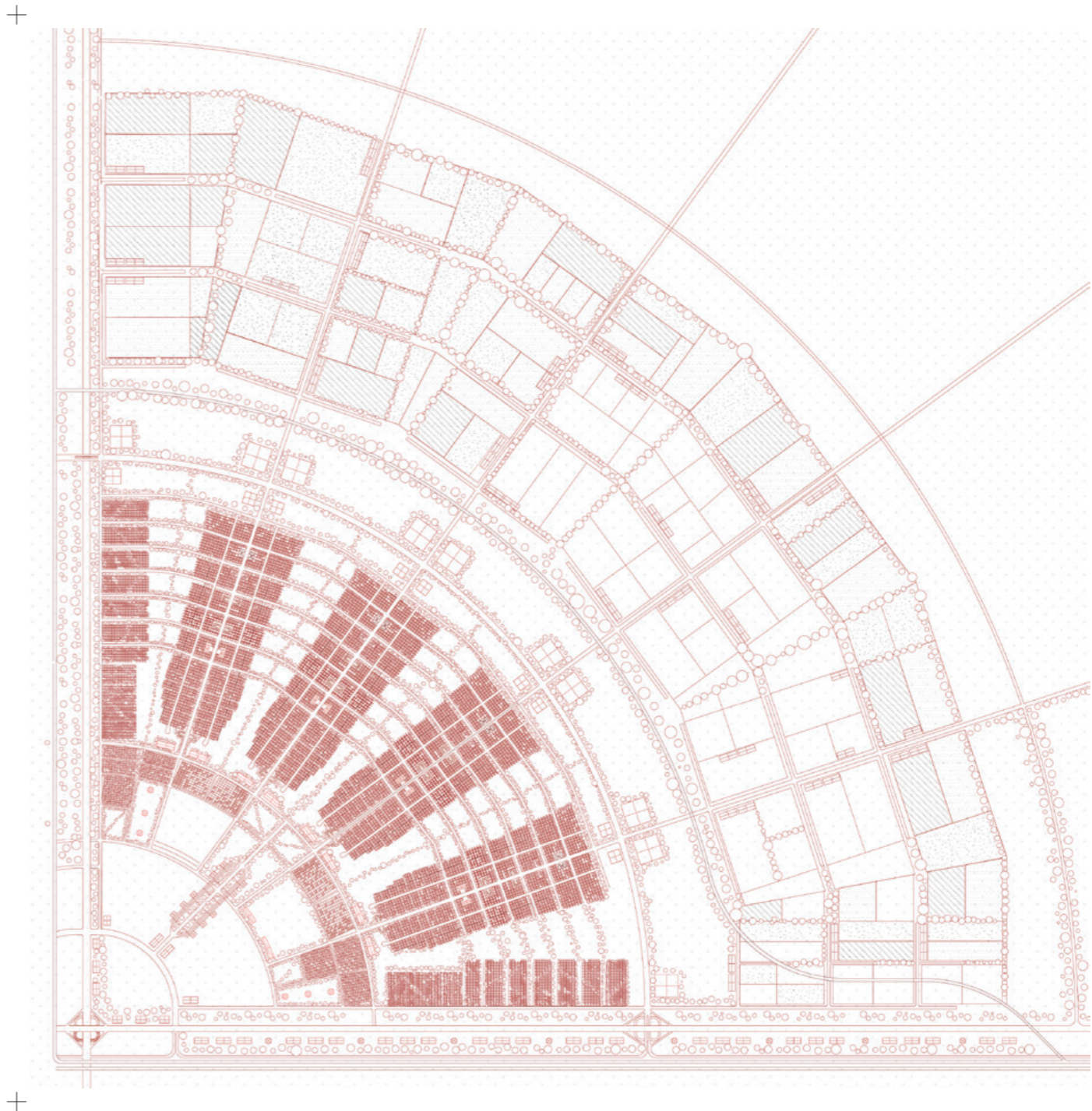
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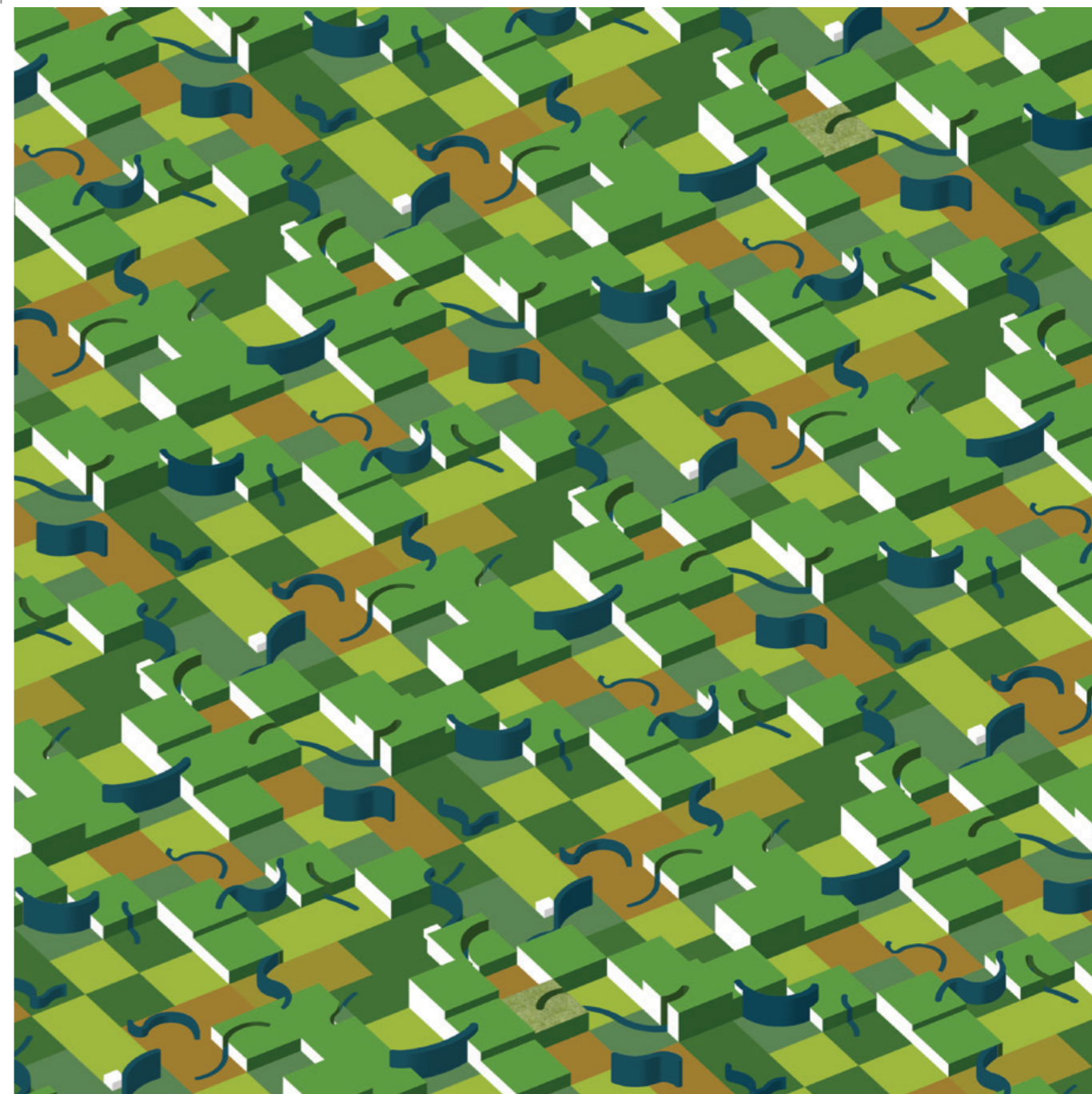
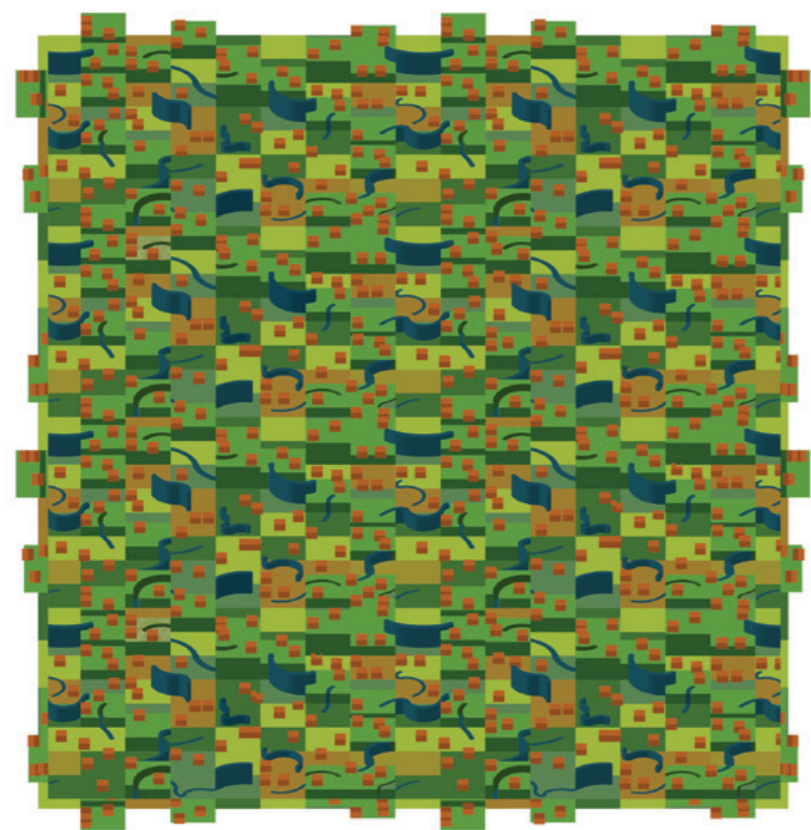
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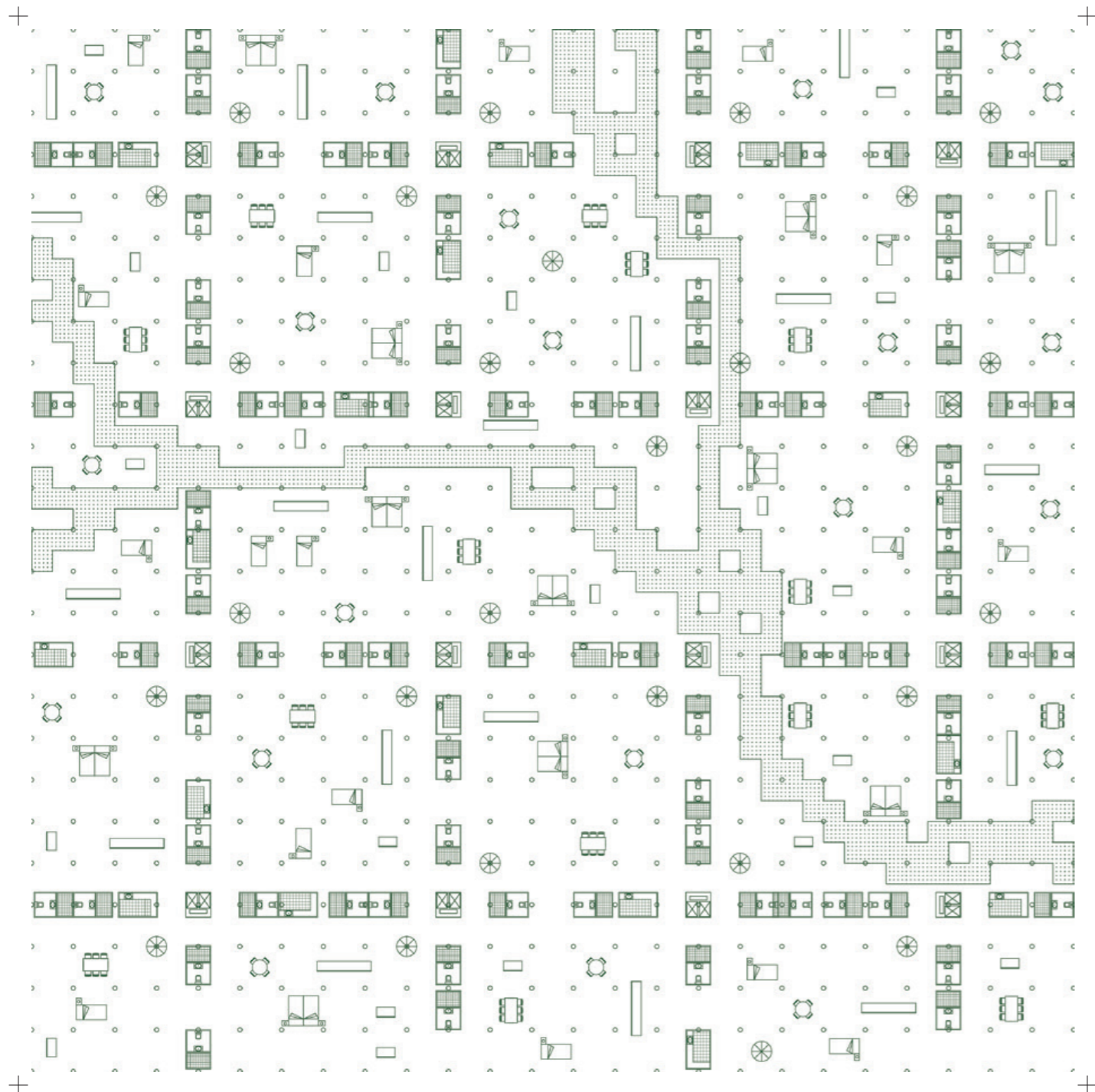
+
Dounia Moujahid

+
Broadacre, revisited

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Dounia Moujahid

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Broadacre, revisited

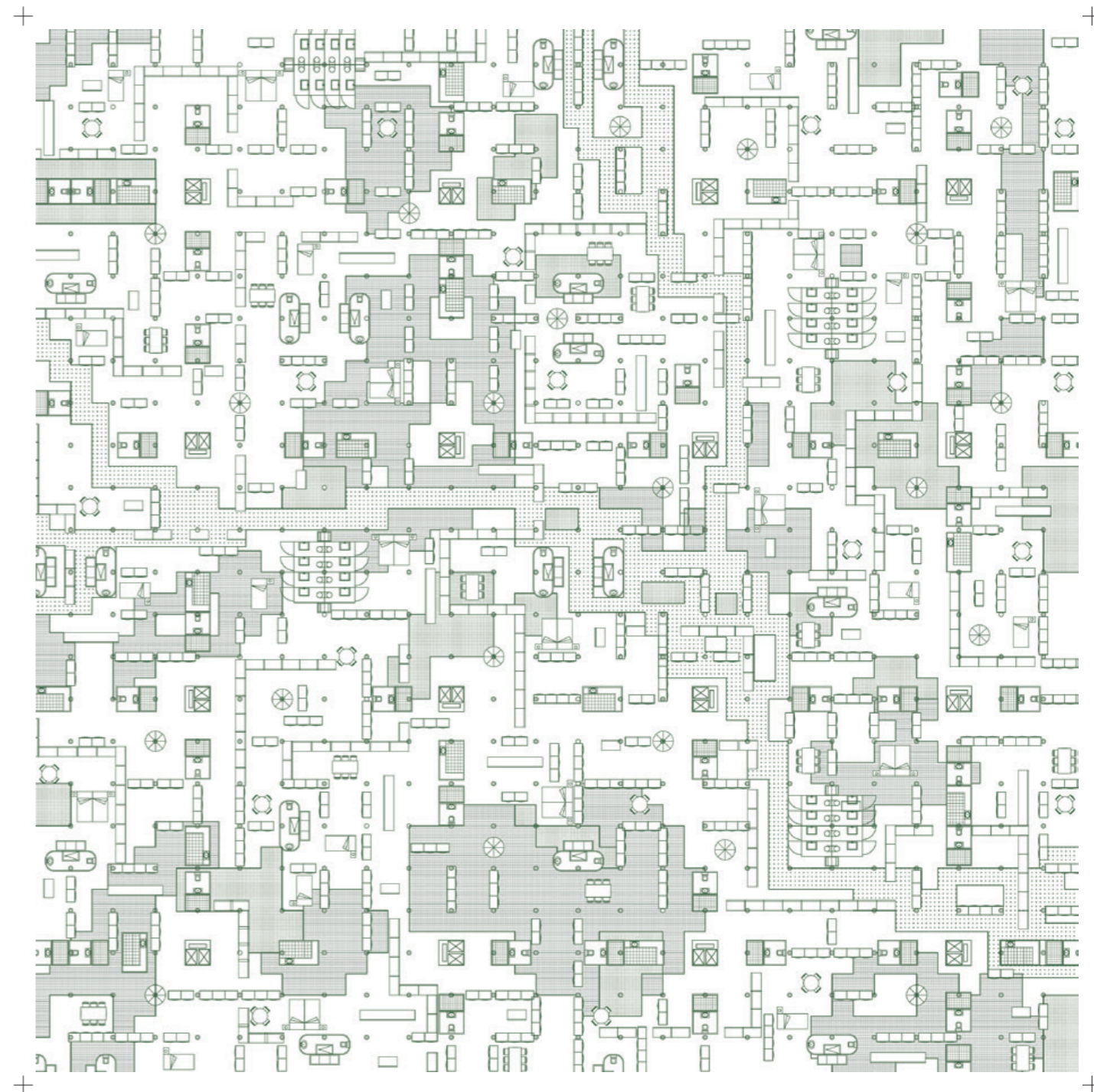
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Gaurang Kaushik

No Stop City, revisited

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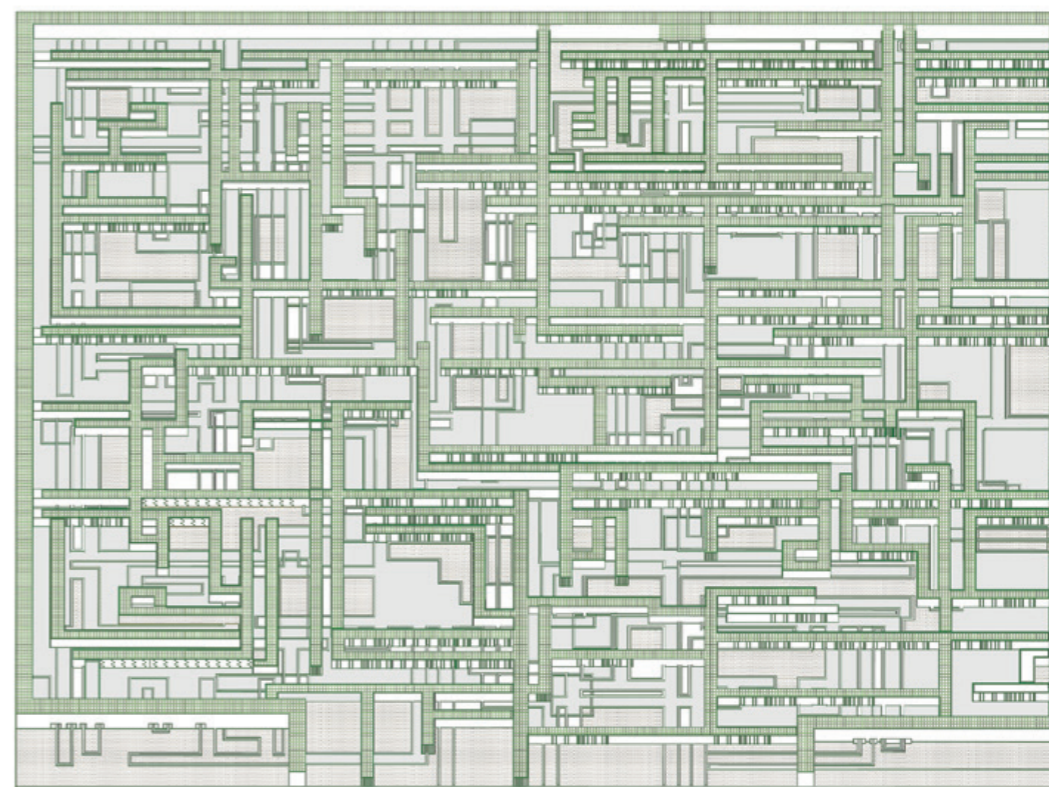
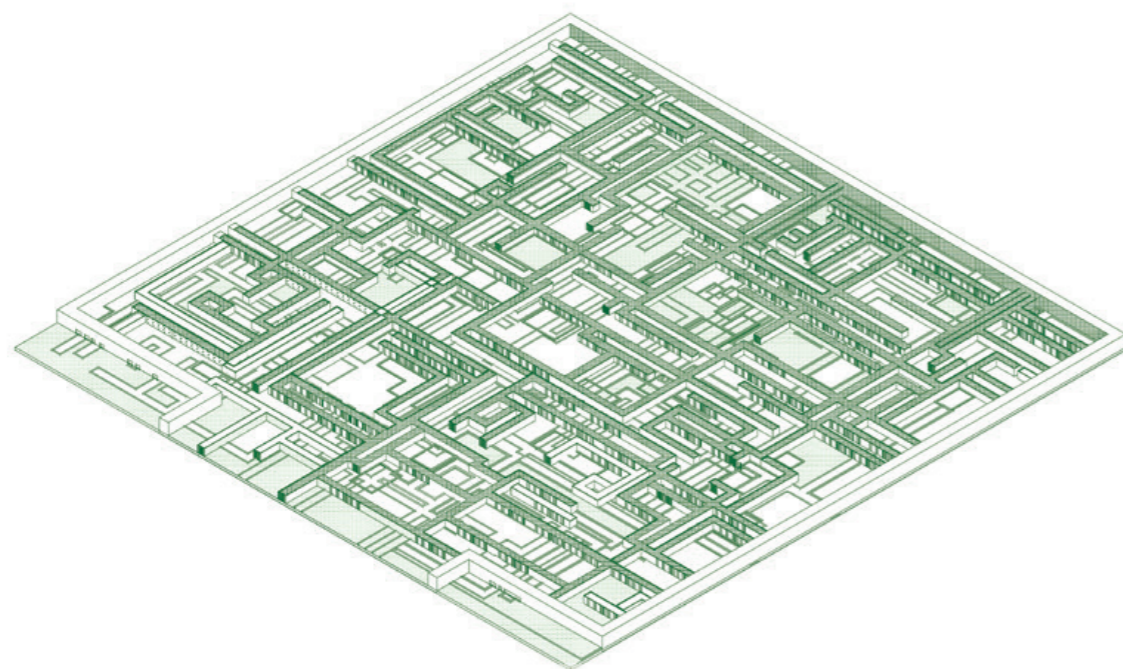
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Keerthana Reddy

No Stop City, revisited



Keerthana Reddy

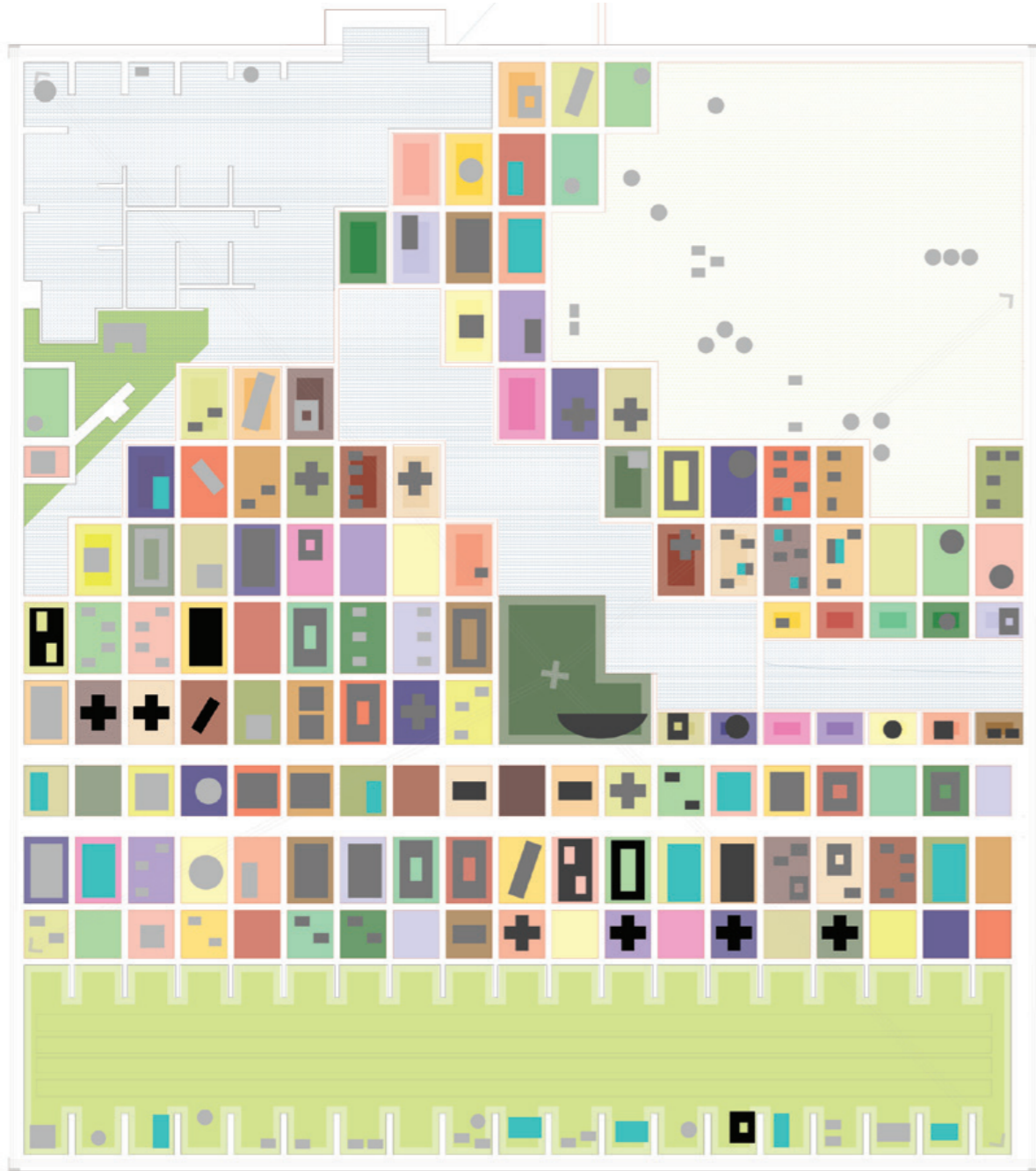
No Stop City, revisited



program: Master of Advanced Architecture
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Almere plan, revisited

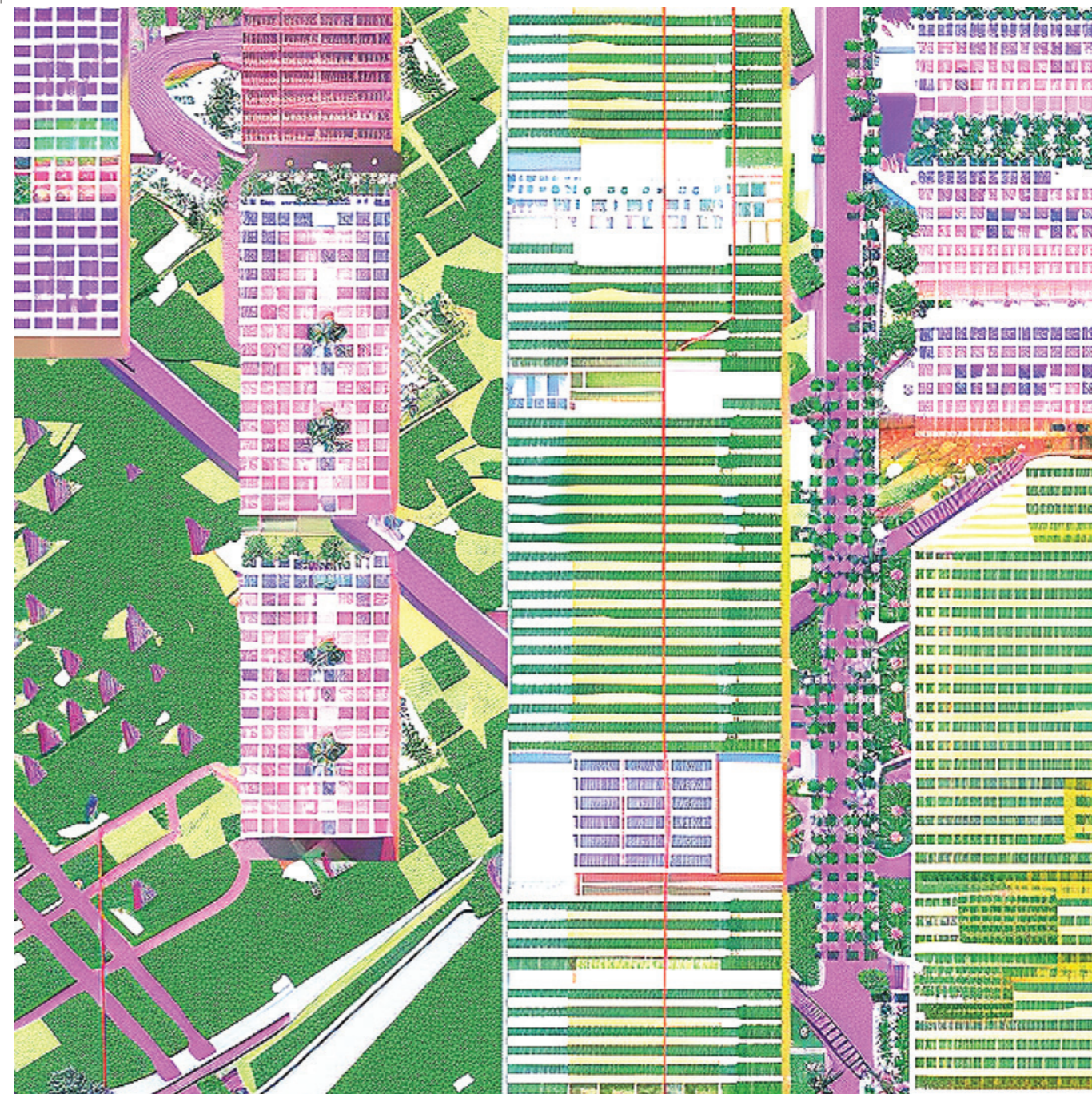
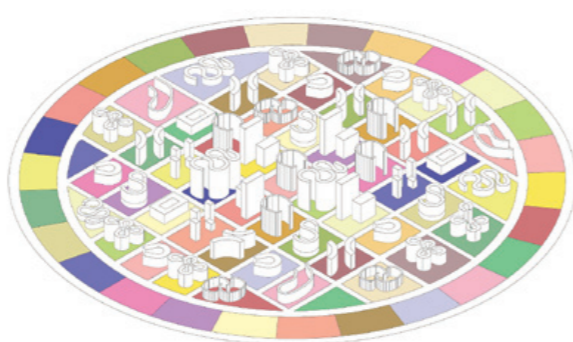
Almere plan, revisited

Muskan Goyal
Mert Özkılıç
Nate Power
Sayed Salahuddin

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Muskan Goyal

Almere plan, revisited

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Almere plan, revisited

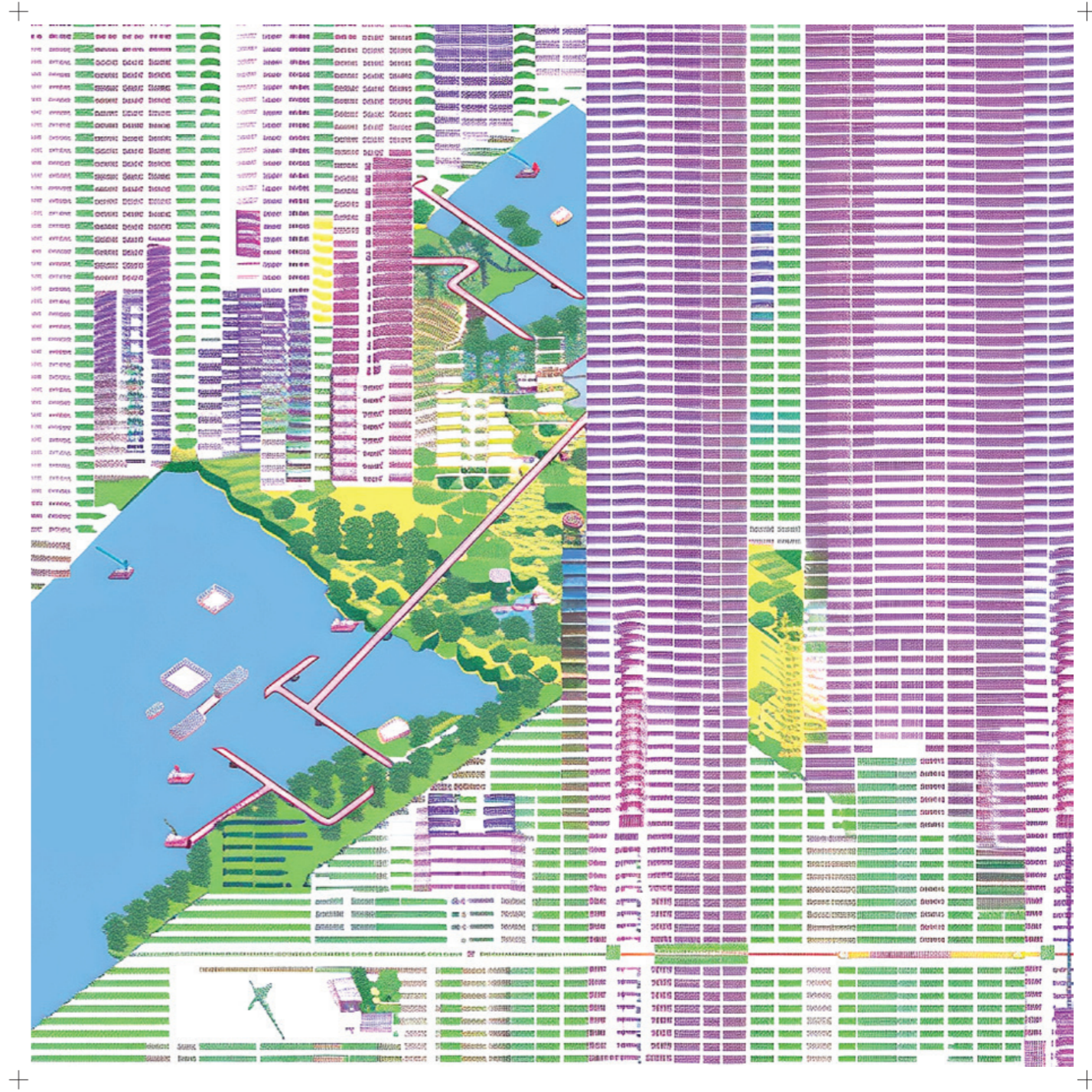
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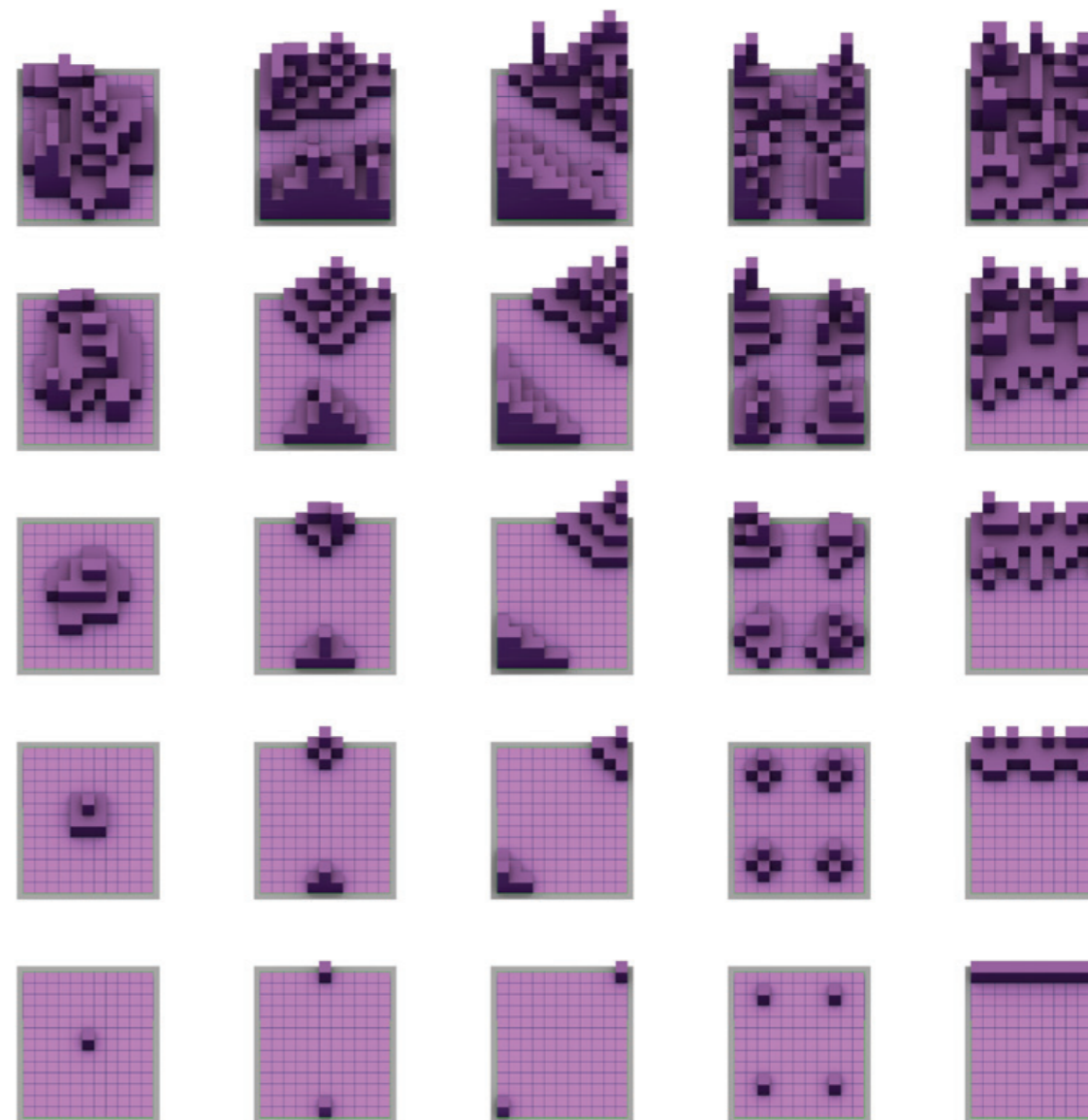
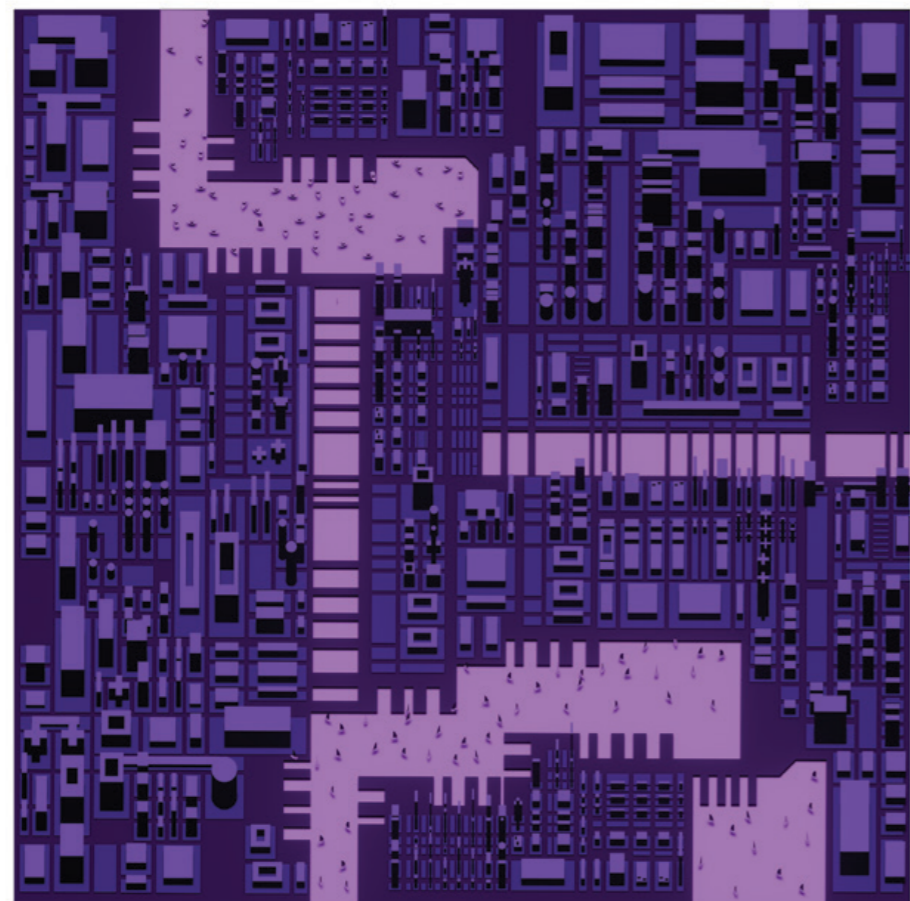
Almere plan, revisited

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Almere plan, revisited



Sayed Salahuddin

Almere plan, revisited



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THF PIXEL-HOF
THF MICRO-CITY
THF PARK-LOOP

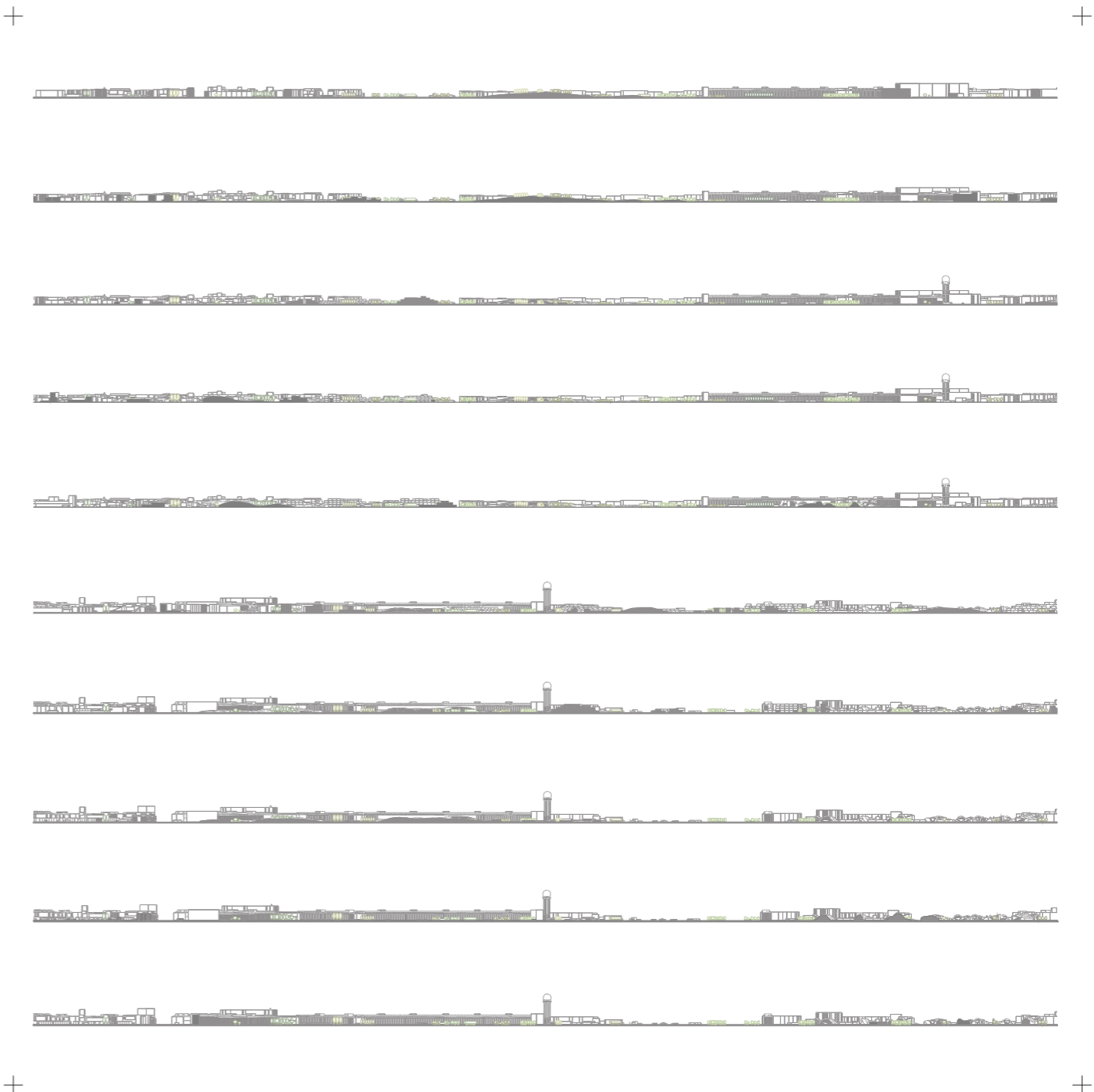
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general plan_layered

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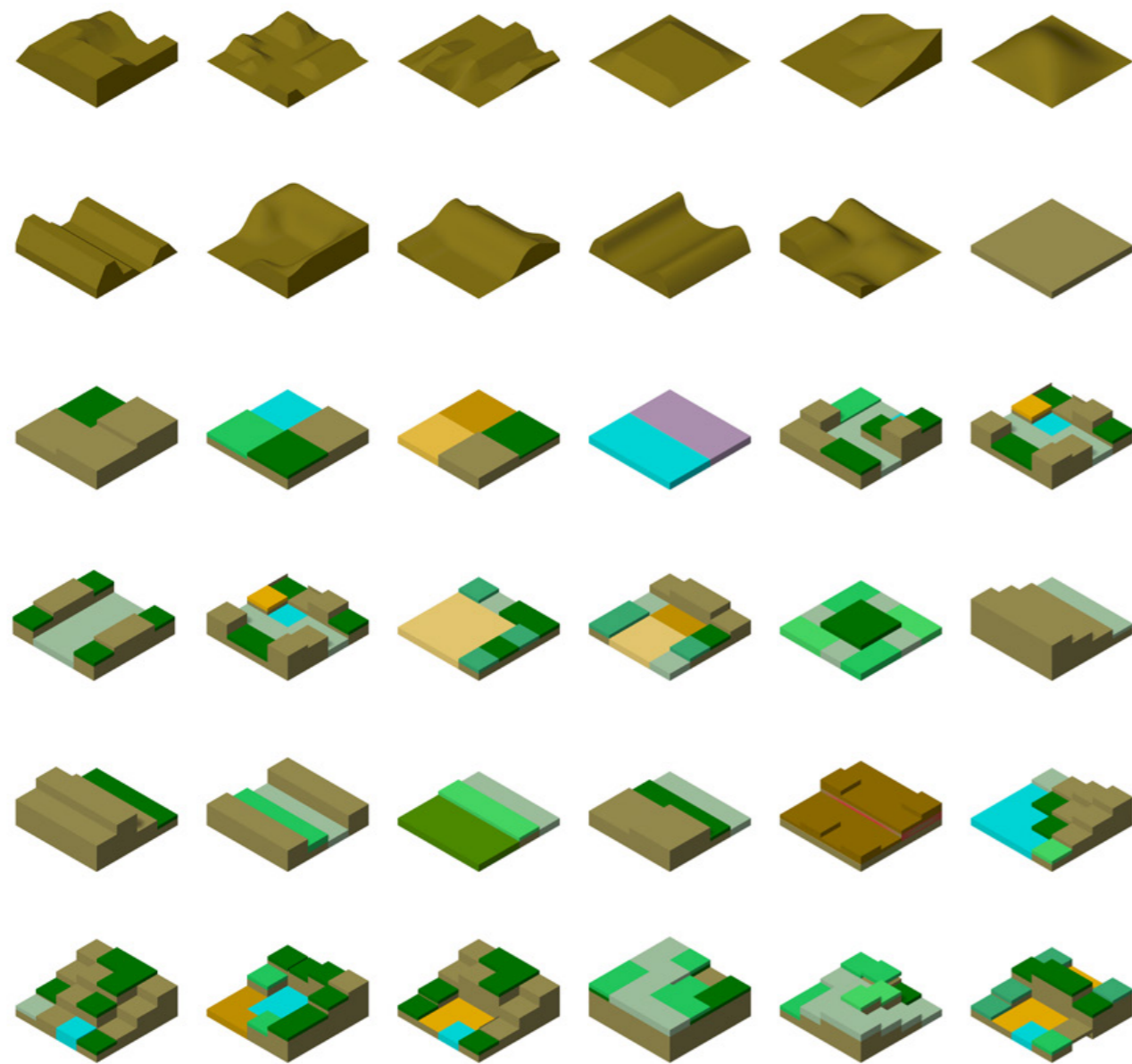


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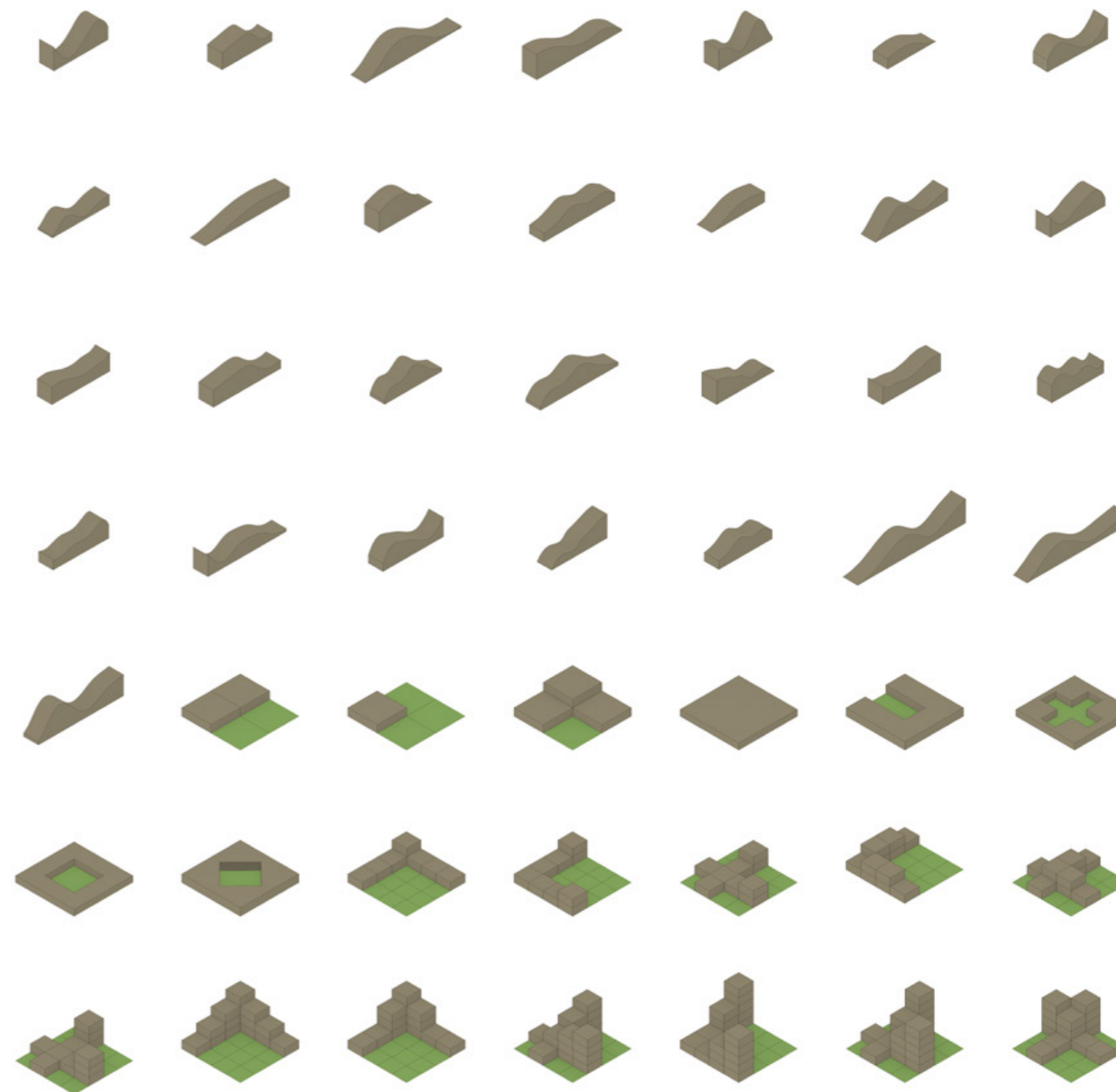
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urban form catalogue

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Mert Özkılıç
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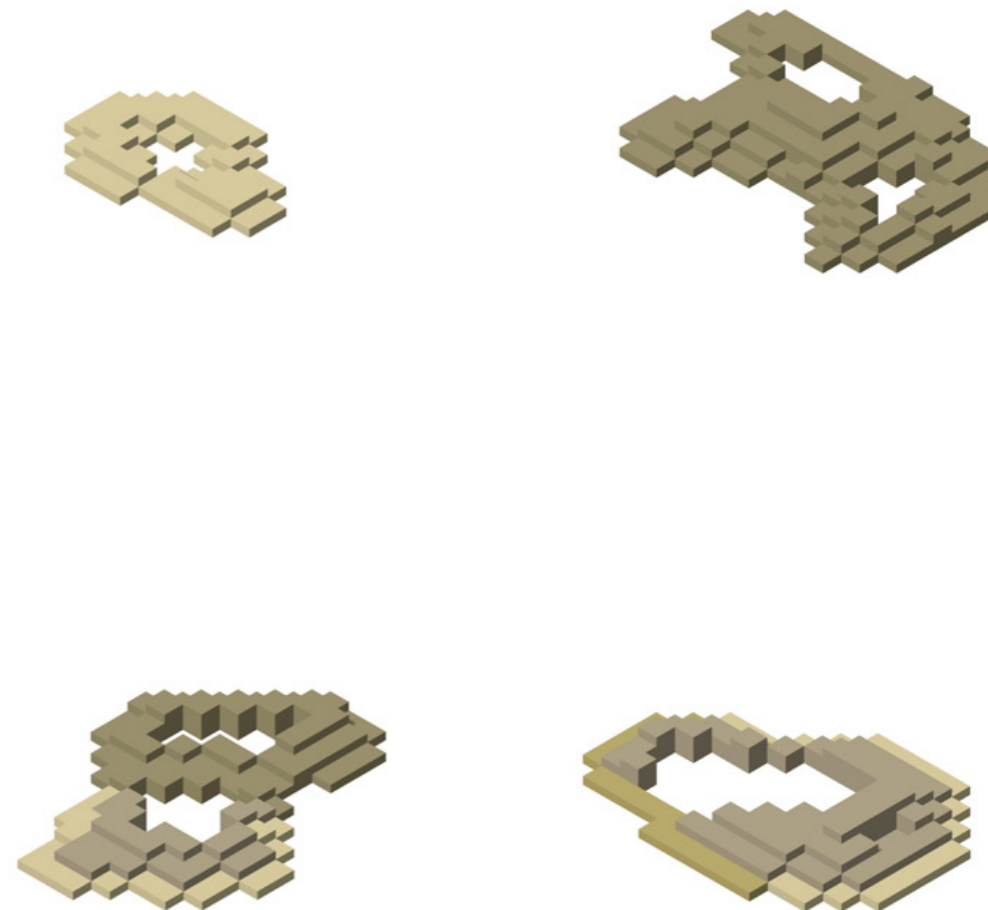
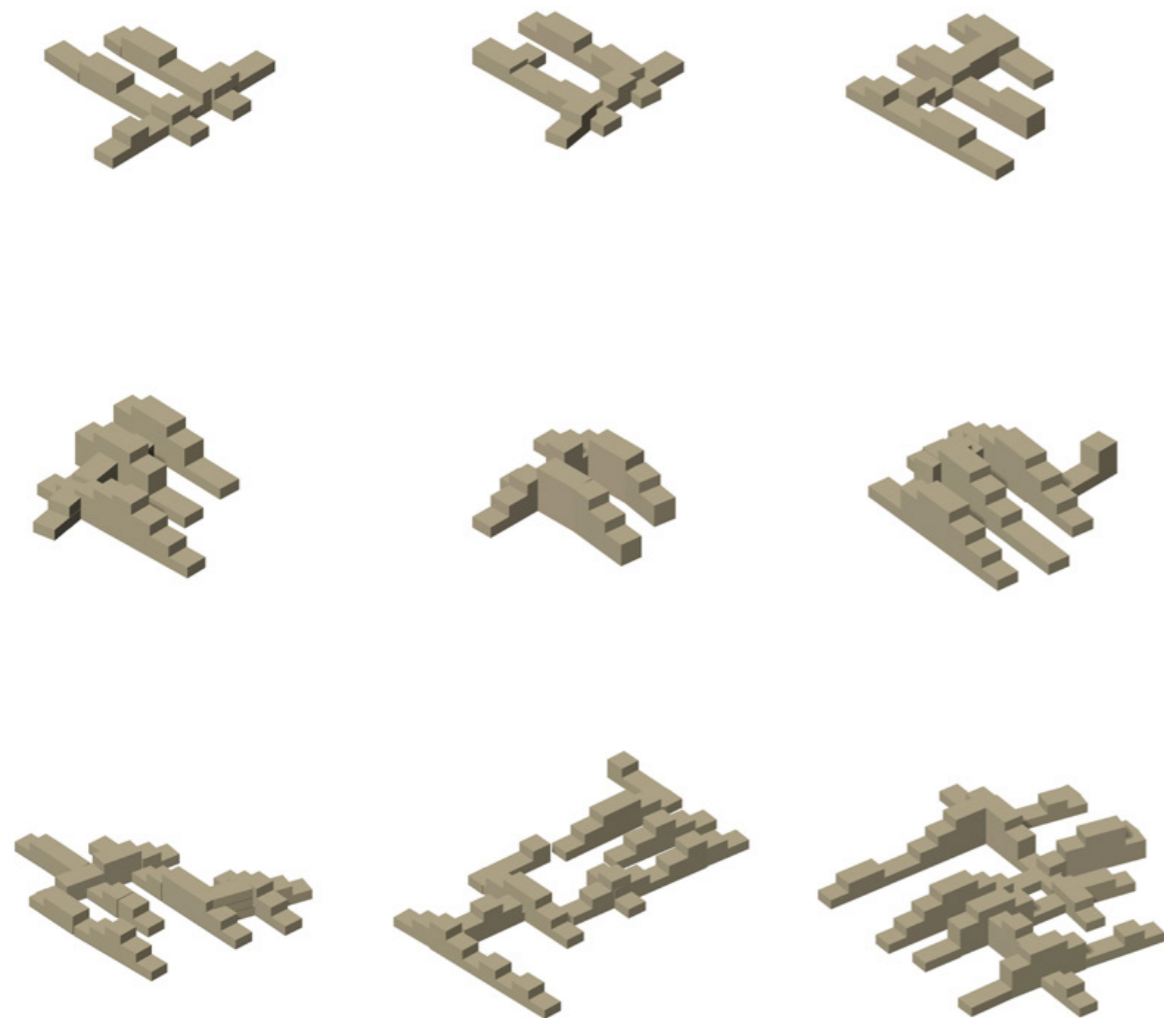
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urban form_variations



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urban form_variations



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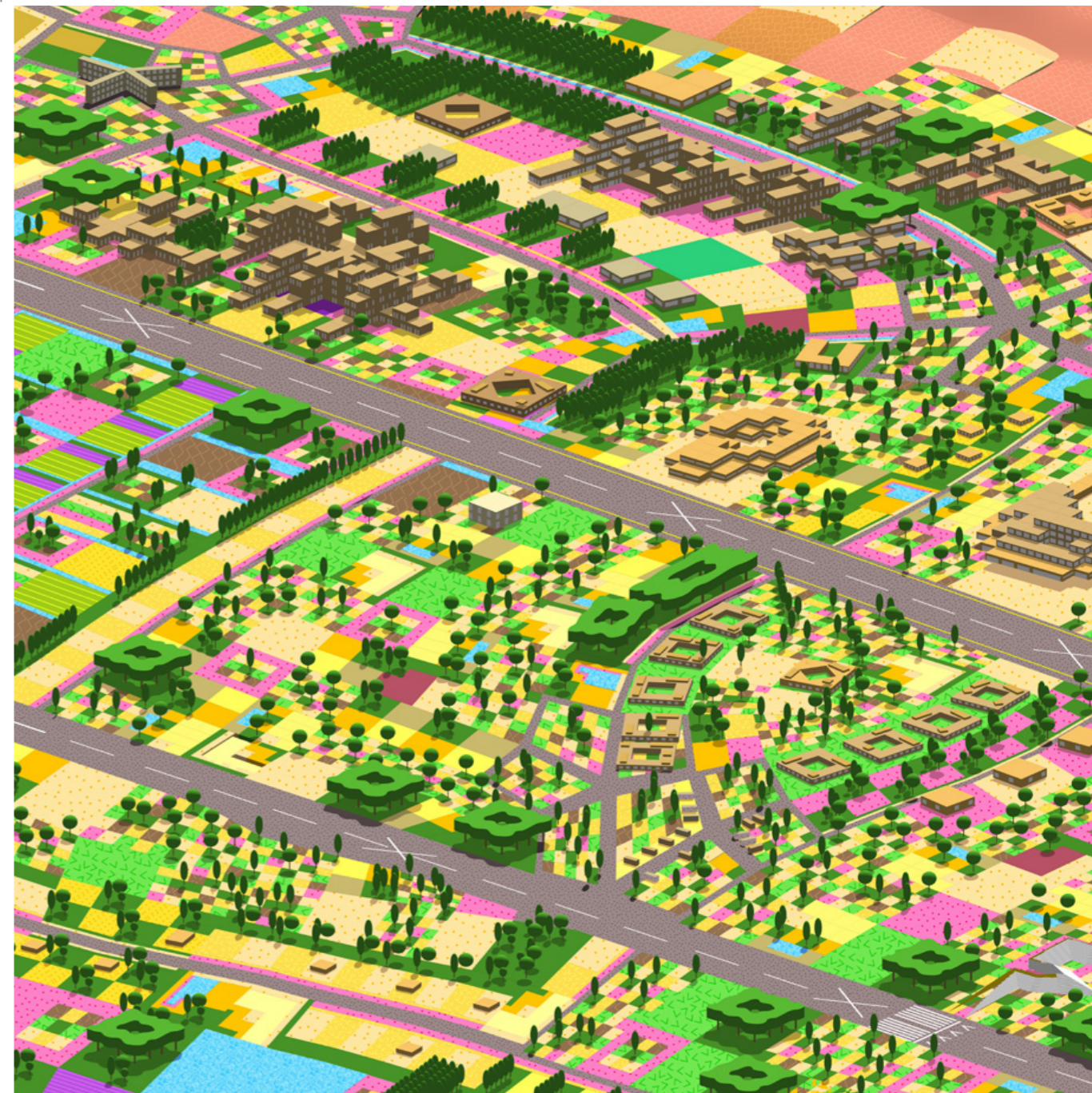


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overall view

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zoom-in

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program: Master of Advanced Architecture
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project: THF MICROCITY

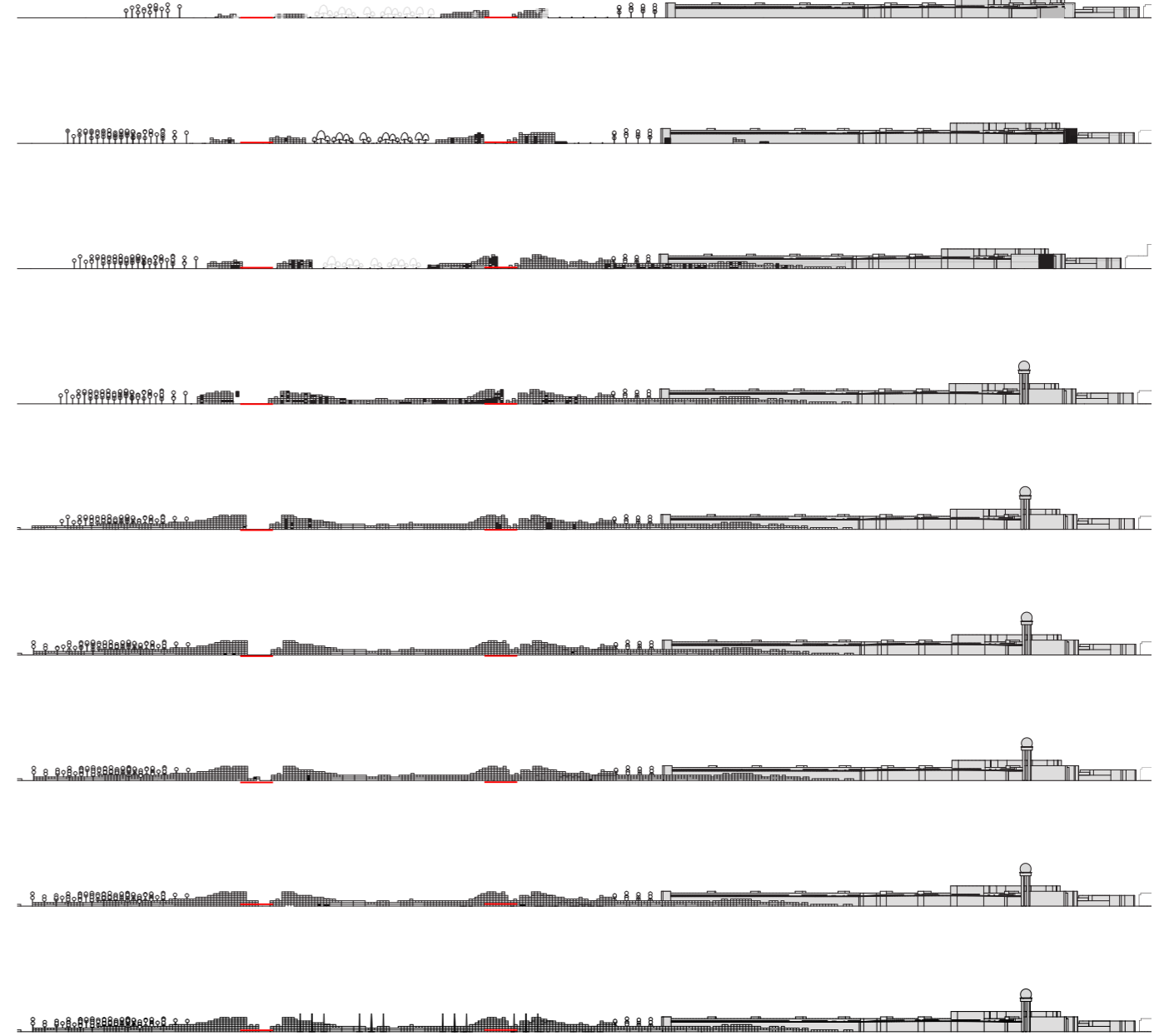
The proposed vision for Tempelhof is articulated as a 'city within a city' arranged along the two main tracks of the former airport, and extended perpendicularly to emphasize a double directionality. Buildings are conceived as flexible micro-communities built on organic/biodegradable materials, with the possibility of growing or 'de-growing' through time.



general plan

Gaurang Kaushik
Hitesh Purushothama
Keerthana Reddy

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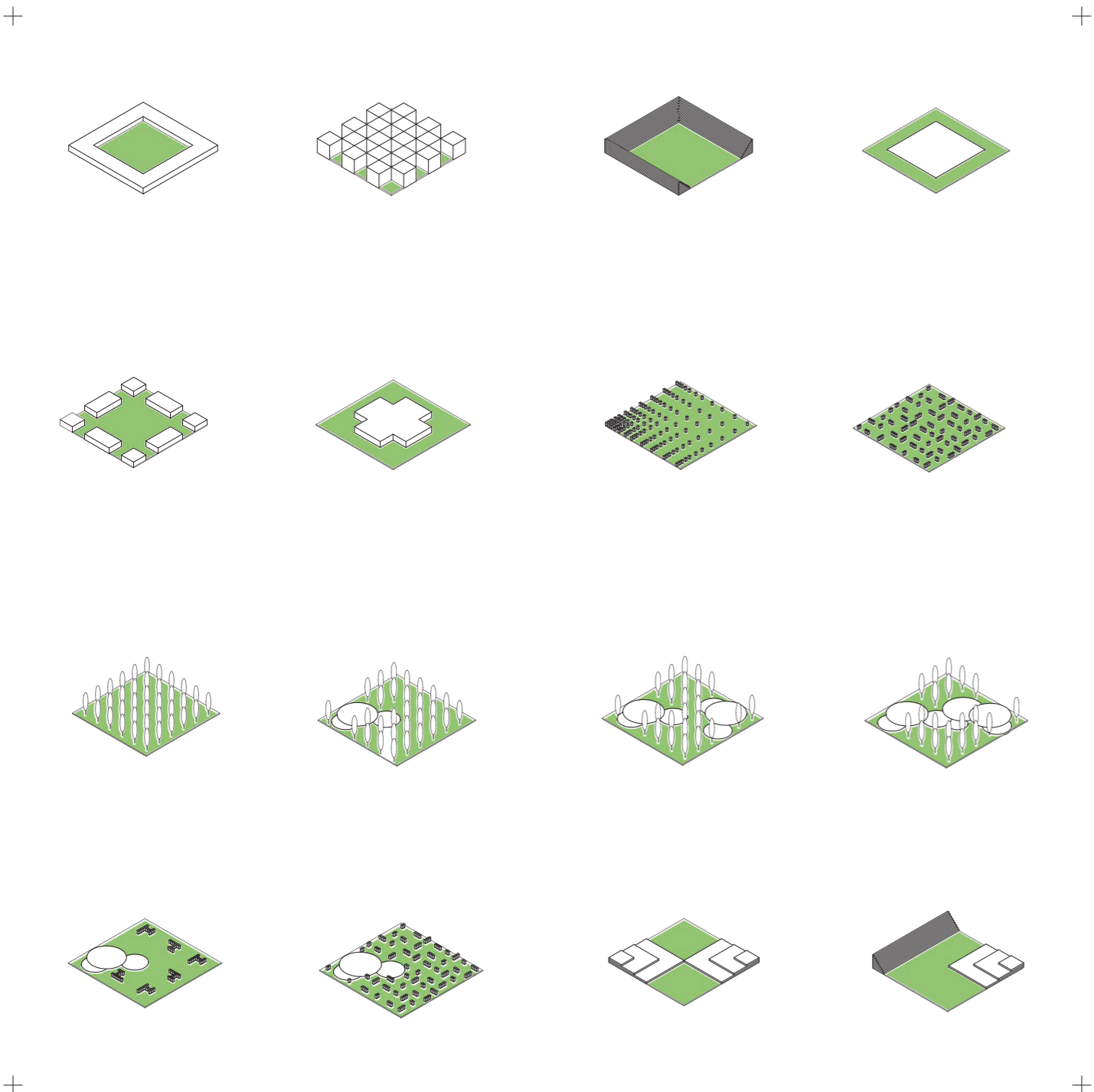
general sections

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Hitesh Purushothama
Keerthana Reddy

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Gaurang Kaushik
Hitesh Purushothama
Keerthana Reddy

programming study



Gaurang Kaushik
Hitesh Purushothama
Keerthana Reddy

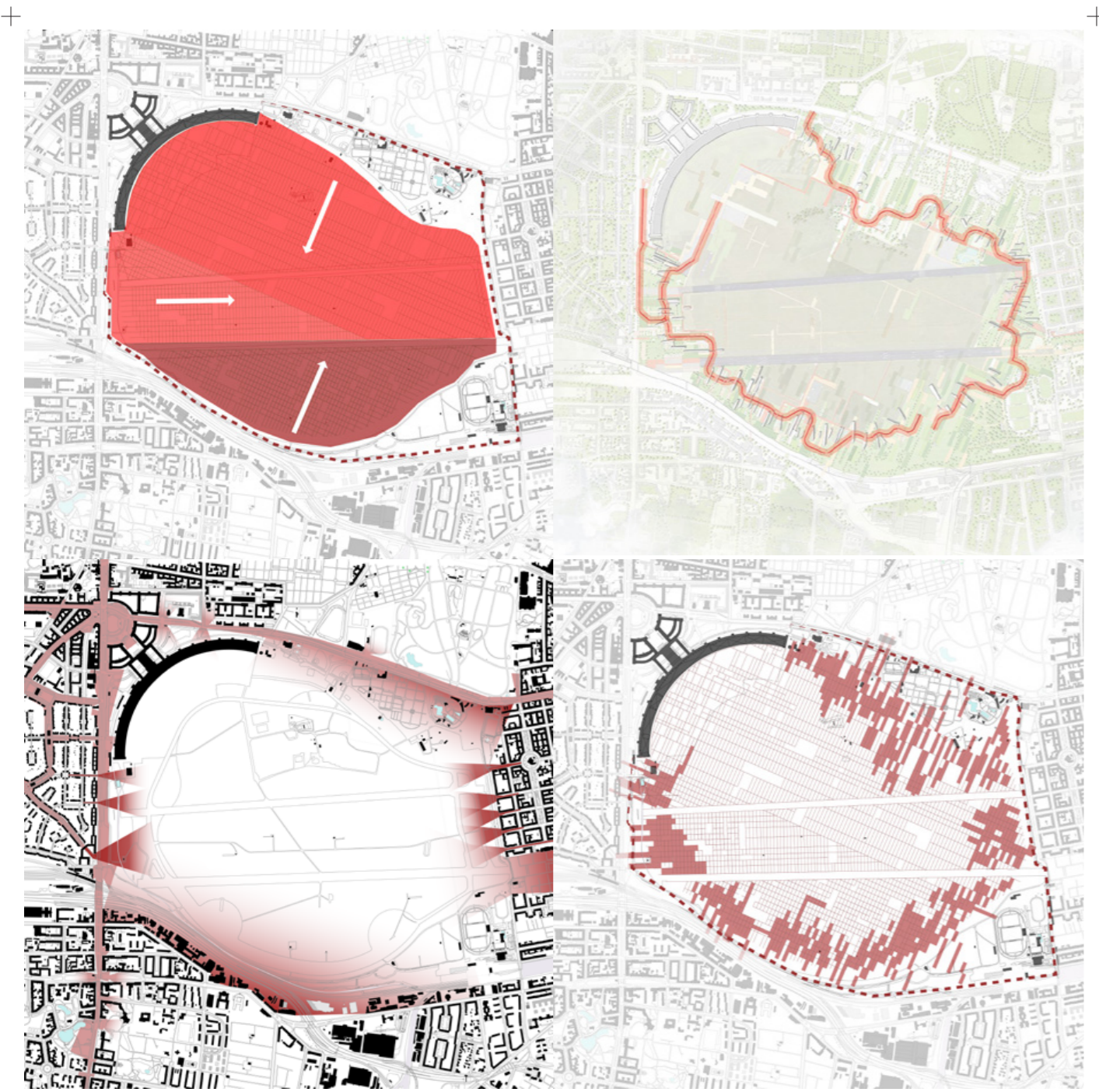
axo_zoom

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project: THF PARK-LOOP

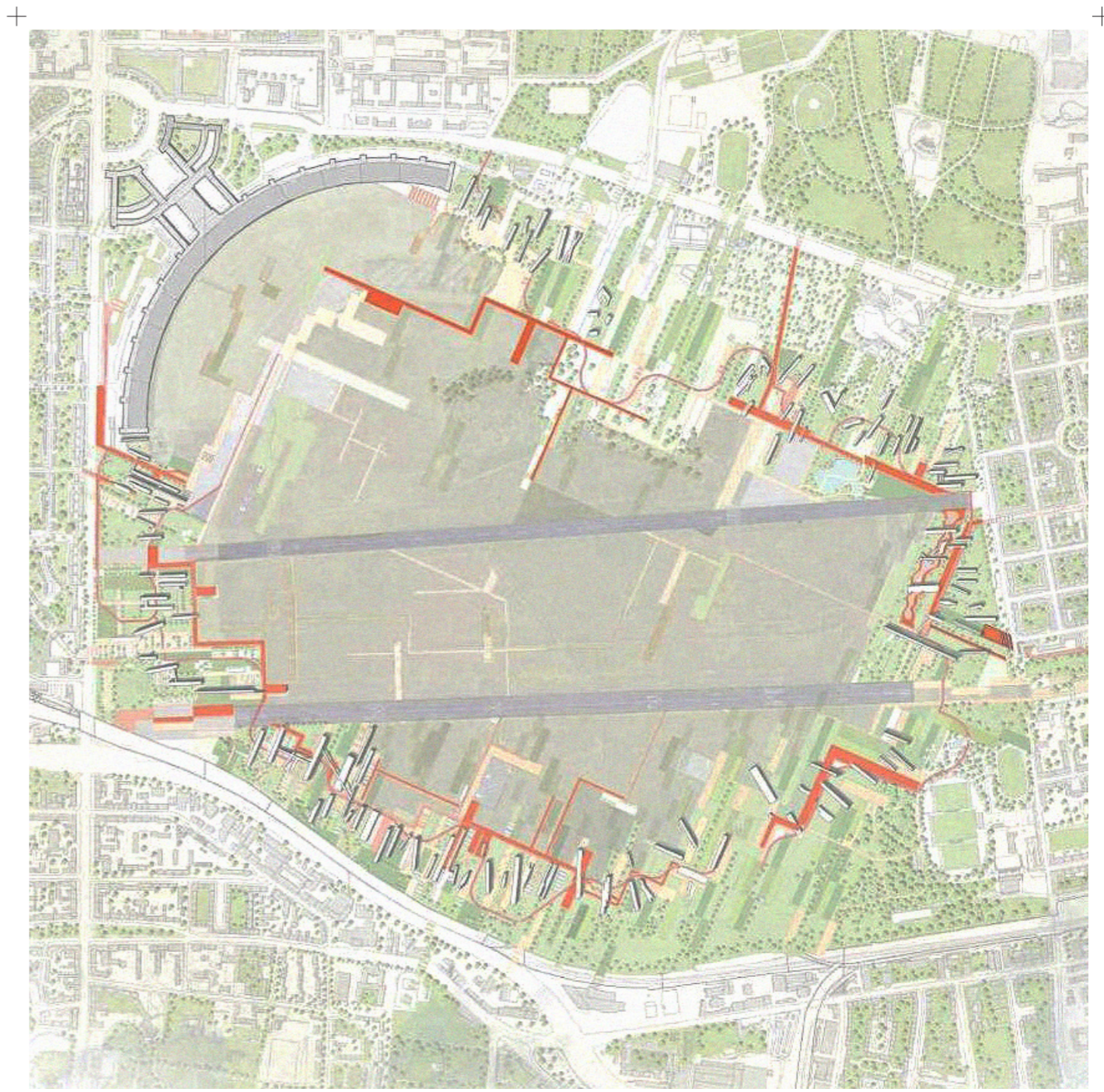
The proposed vision for Tempelhof is articulated as a continuous, porous, 'spongy' perimetral loop mixing housing blocks and a variety of urban programs and public space, simultaneously re-defining a new connection with the city while preserving the nature of the site as a major urban void.

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general scheme studies

Dana El Hajjar
Naji ALTala
Aakriti Singh
Dounia Moujahid



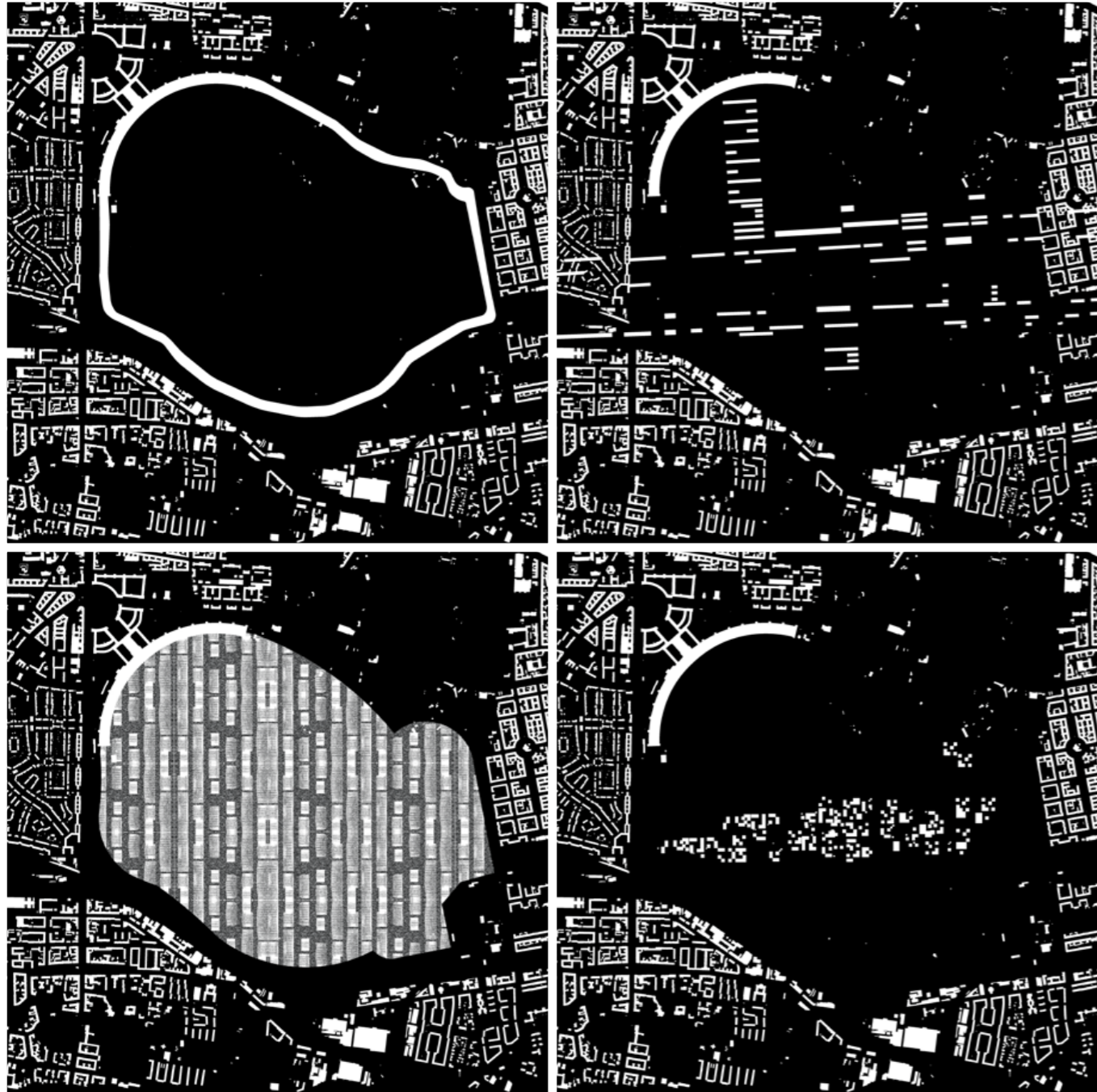
general plan

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Naji ALTala
Aakriti Singh
Dounia Moujahid

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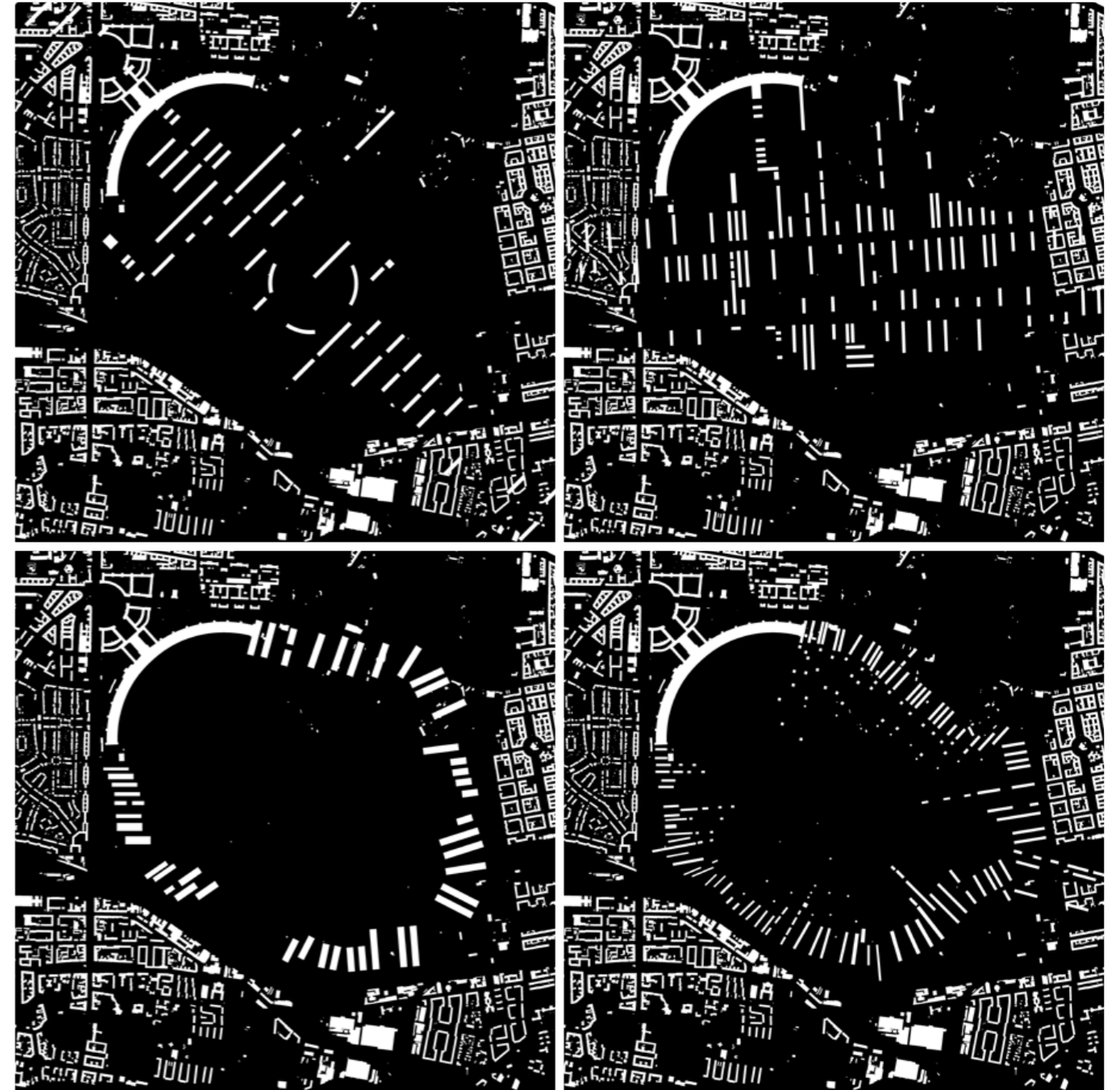


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general studies

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general studies

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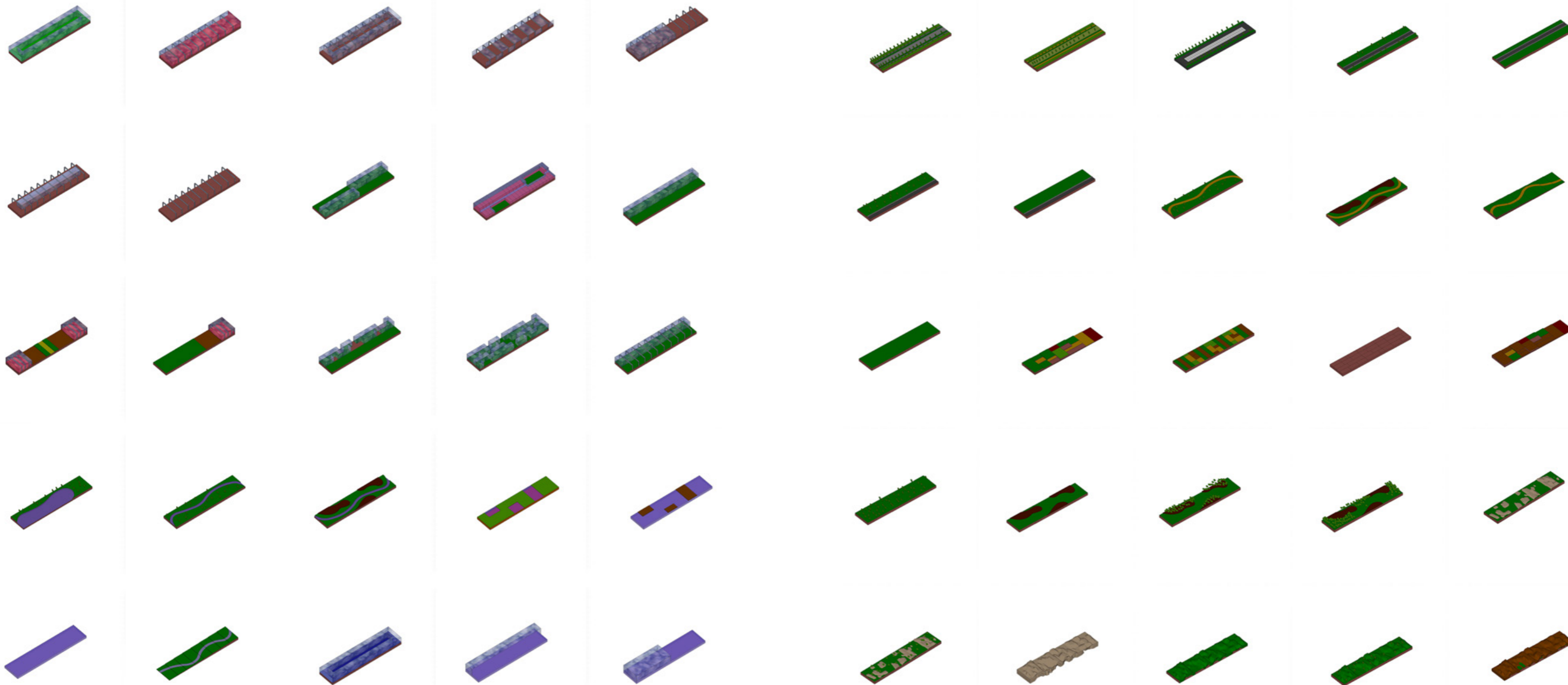


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landscape-bar study

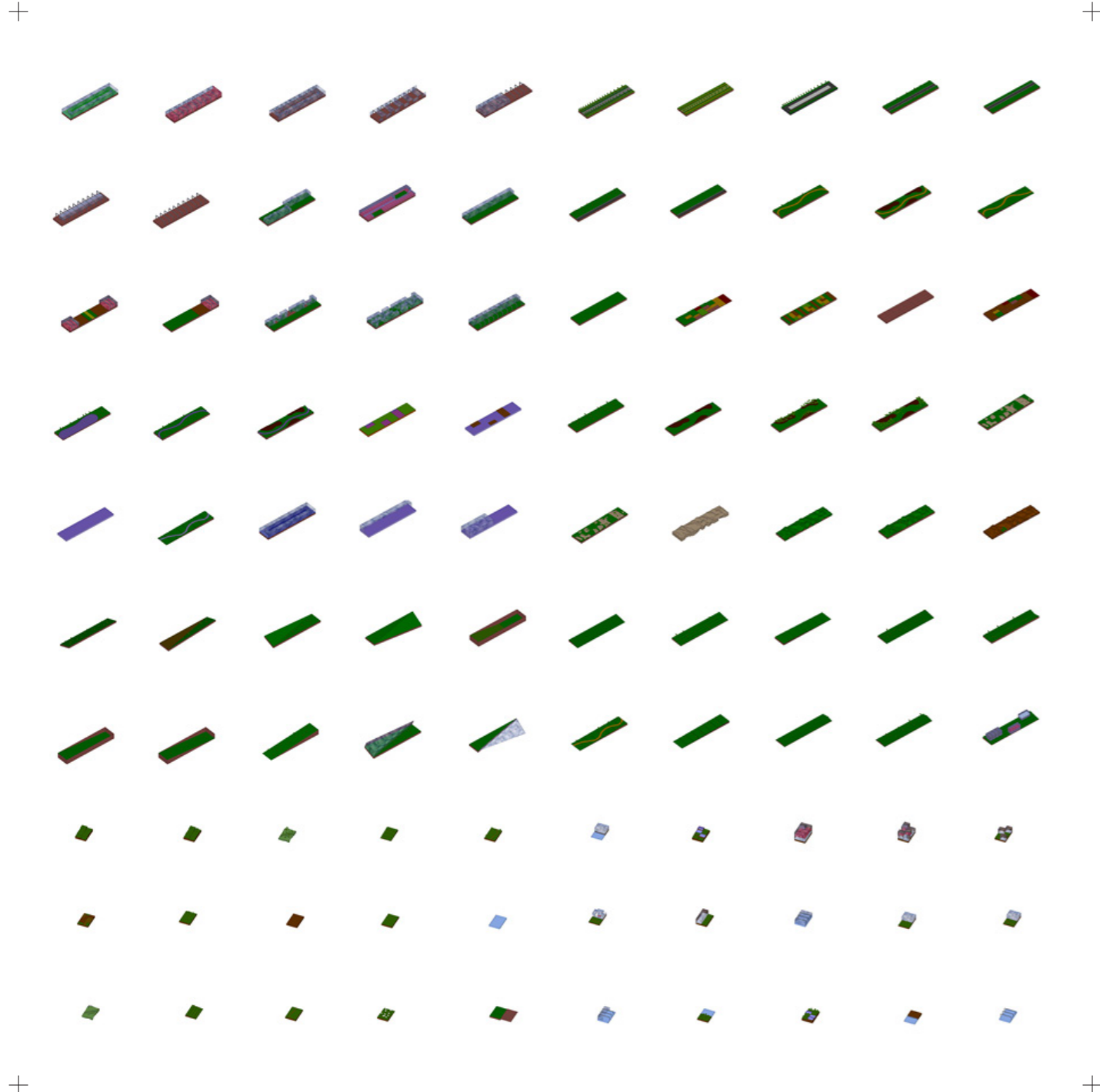
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landscape-bar study

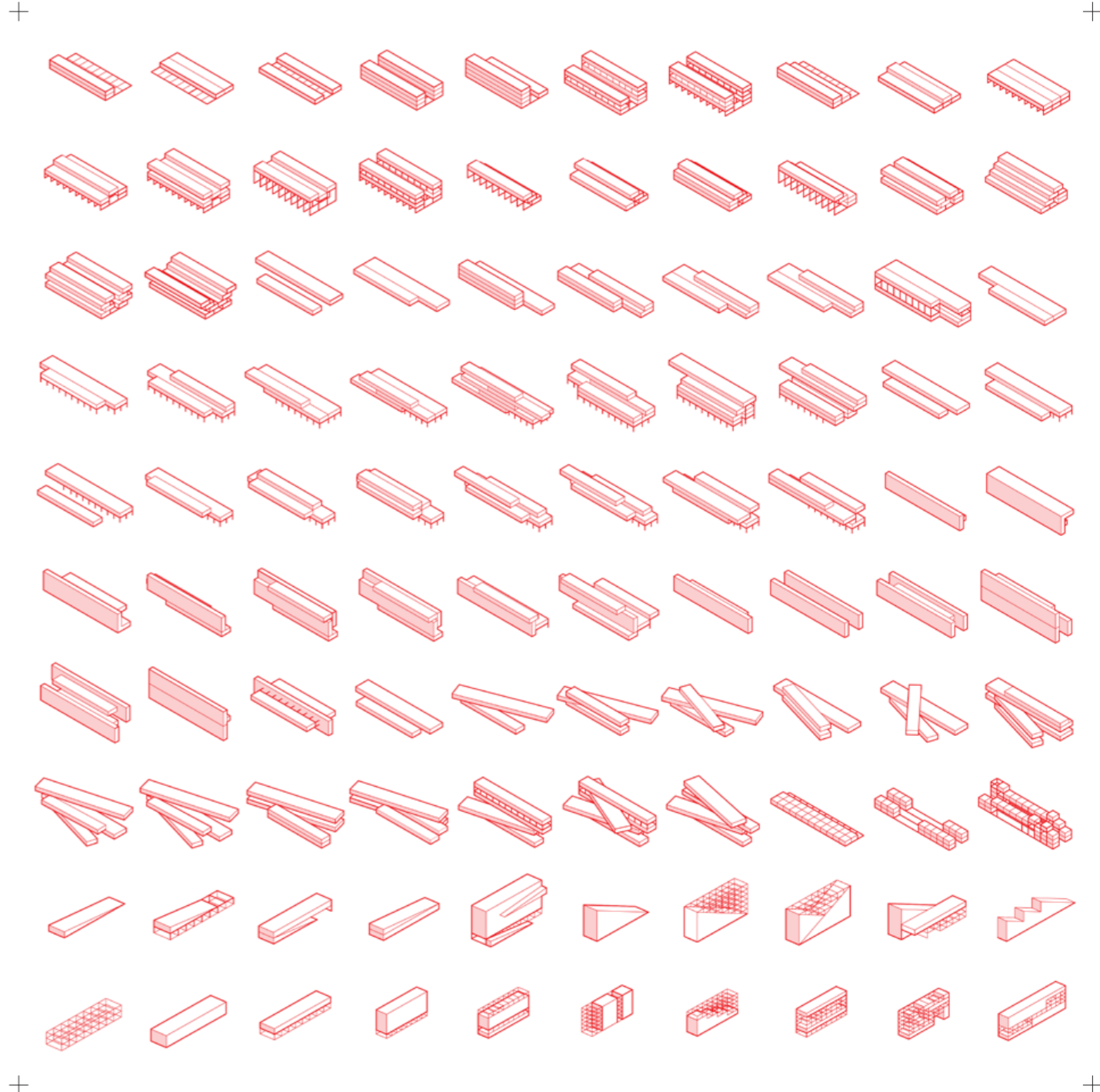
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landscape-bar study

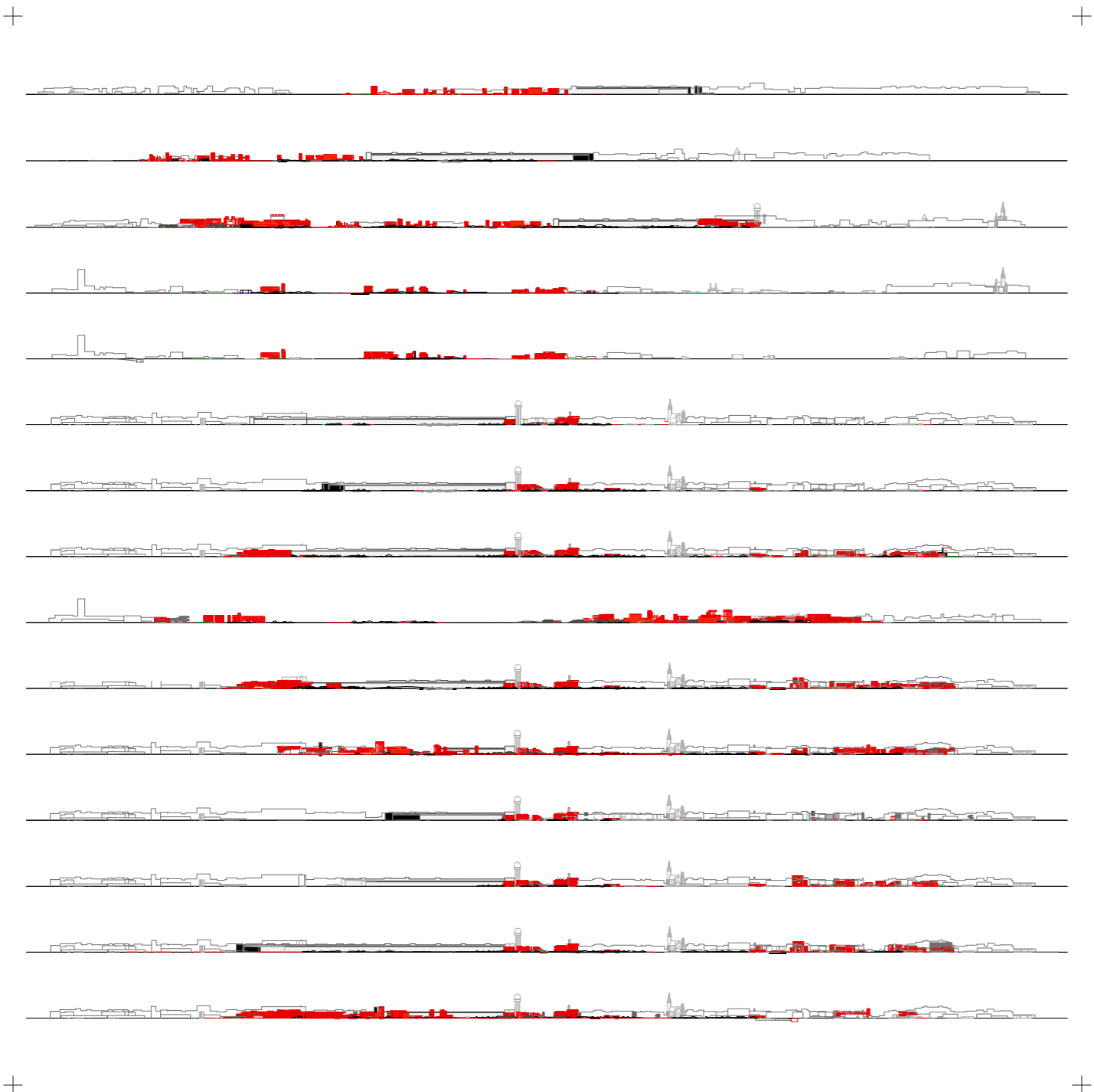


building-bar study

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Aakriti Singh
Dounia Moujahid

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section catalogue

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plan programming

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plan zoom

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plan zoom

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plan zoom

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plan zoom

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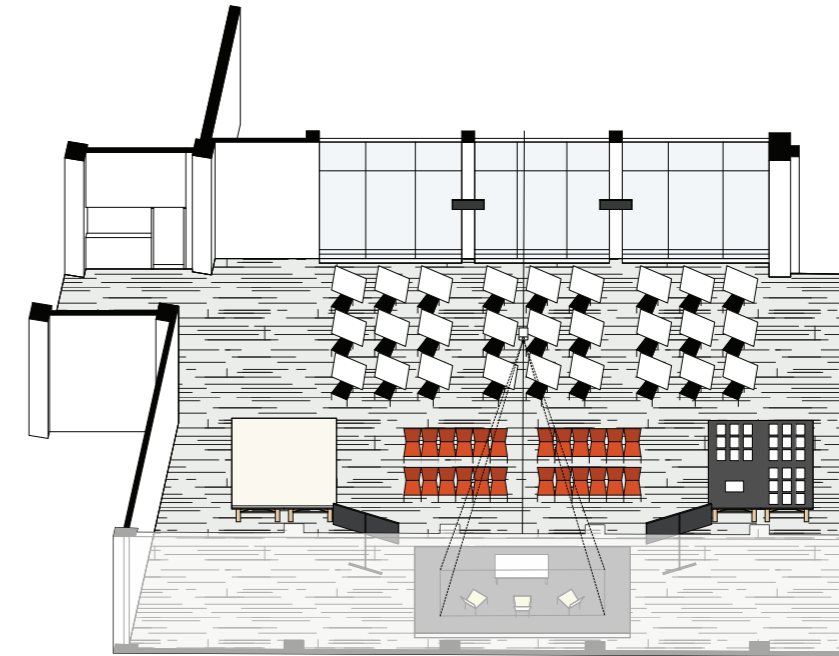
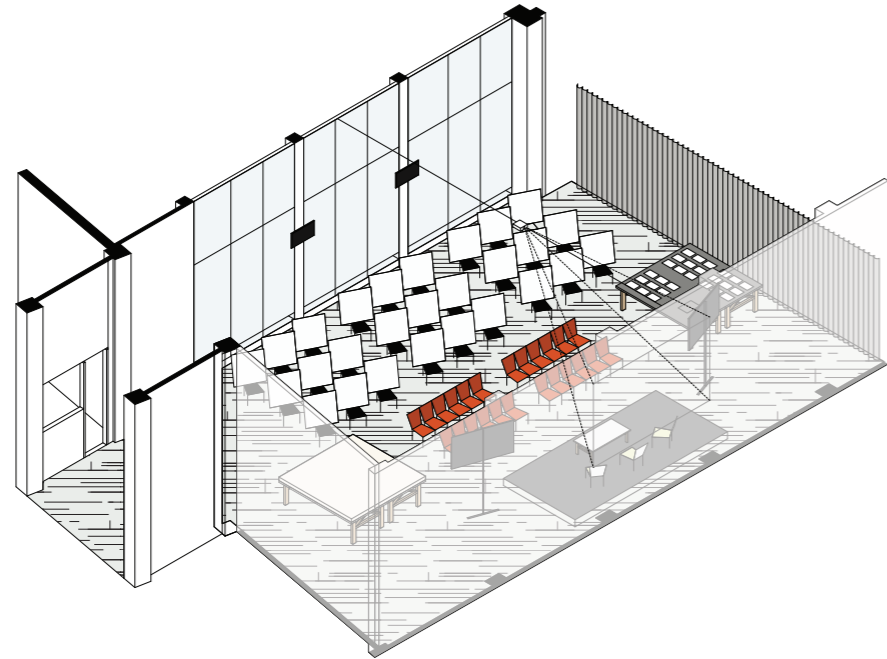
JURY

OSMIN AVALOS
MATHILDE MARENGO
ARETI MARKOPOULOU
CARSTEN SCHMIDT
LUKAS STAUDINGER
VALENTINA MALDONADO

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FINAL REVIEW

exhibition layout

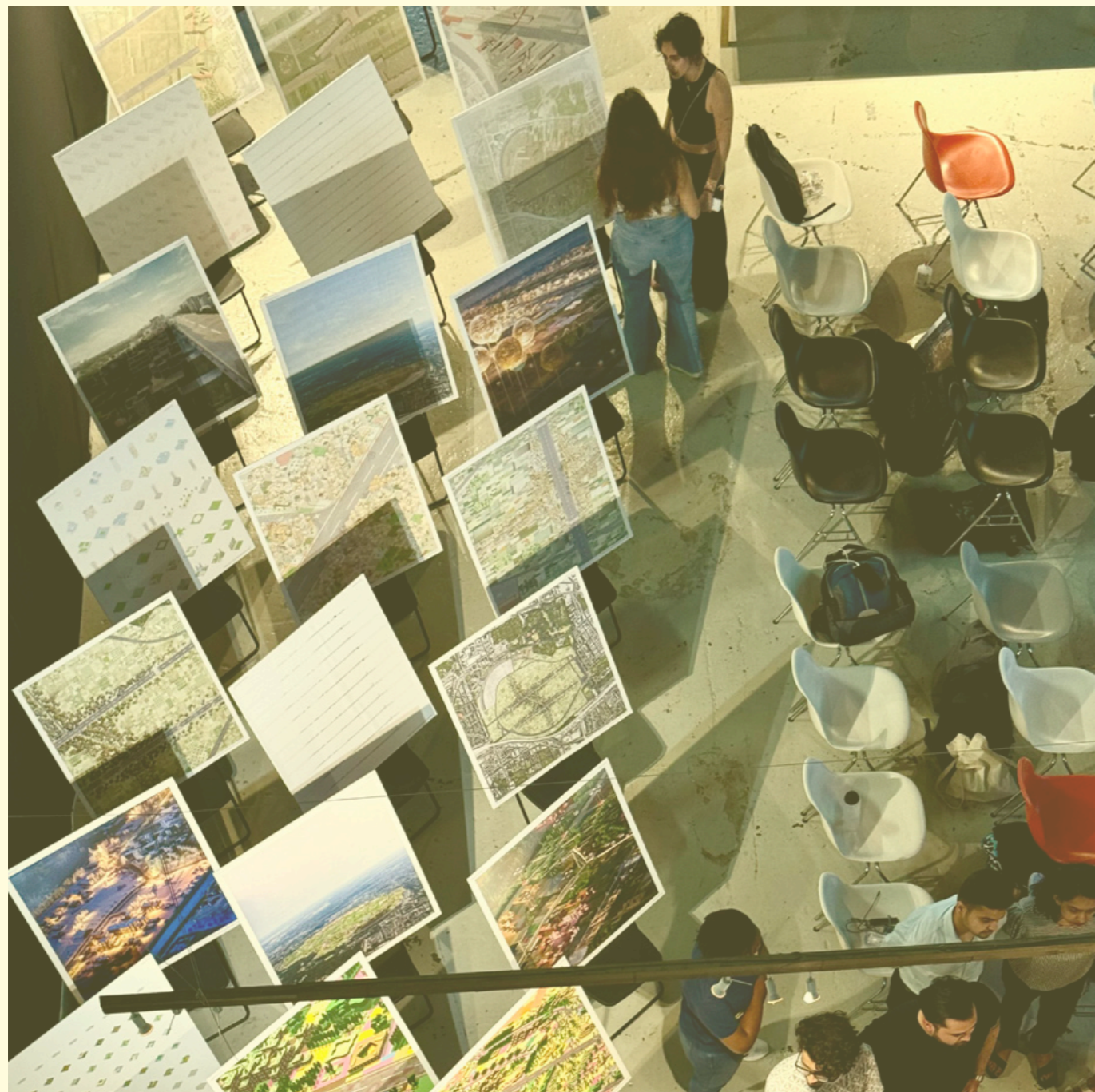
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IAAC

X-URBAN DESIGN STUDIO

Instructors: Mariano Gomez Luque / Francisco Villeda

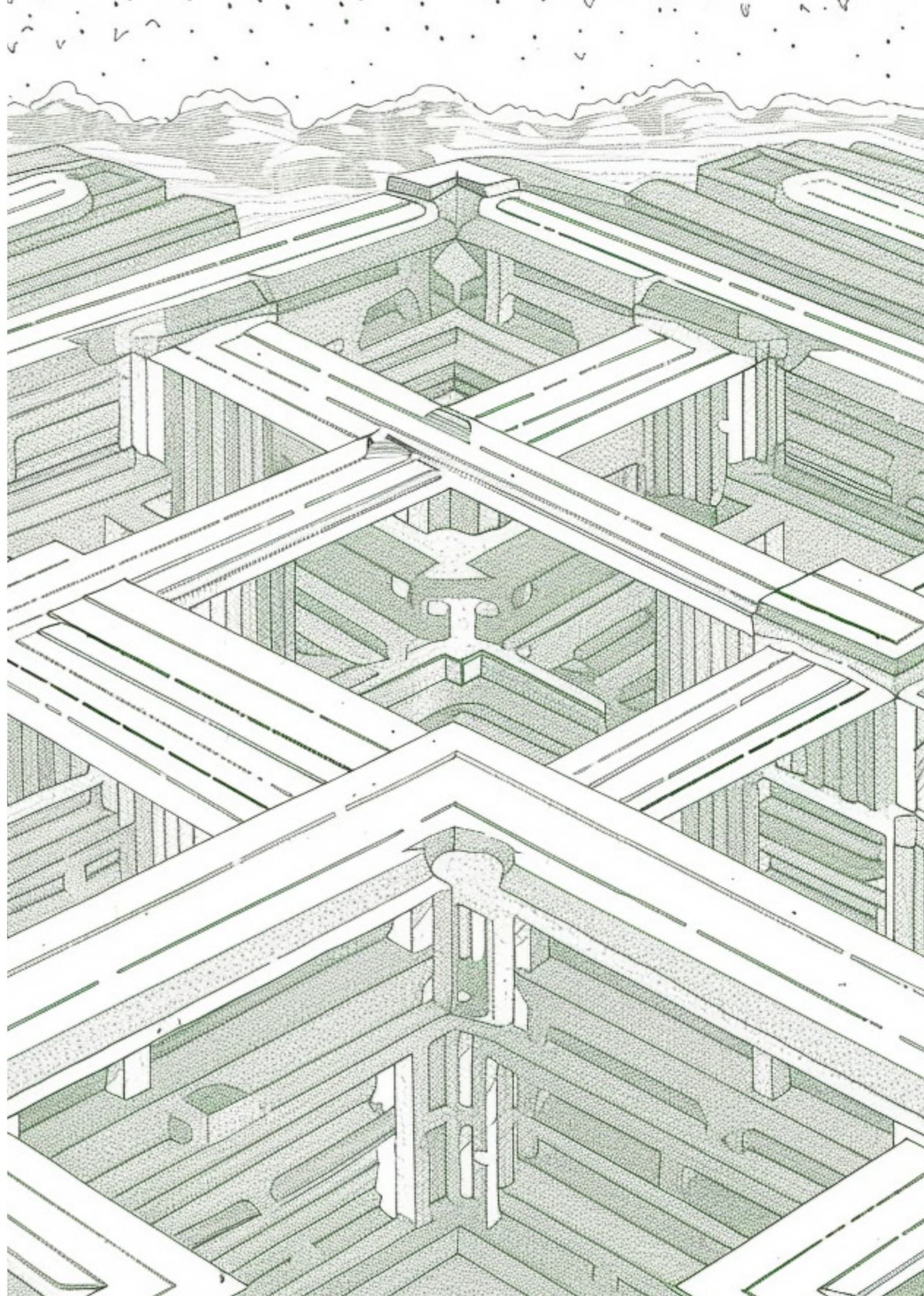
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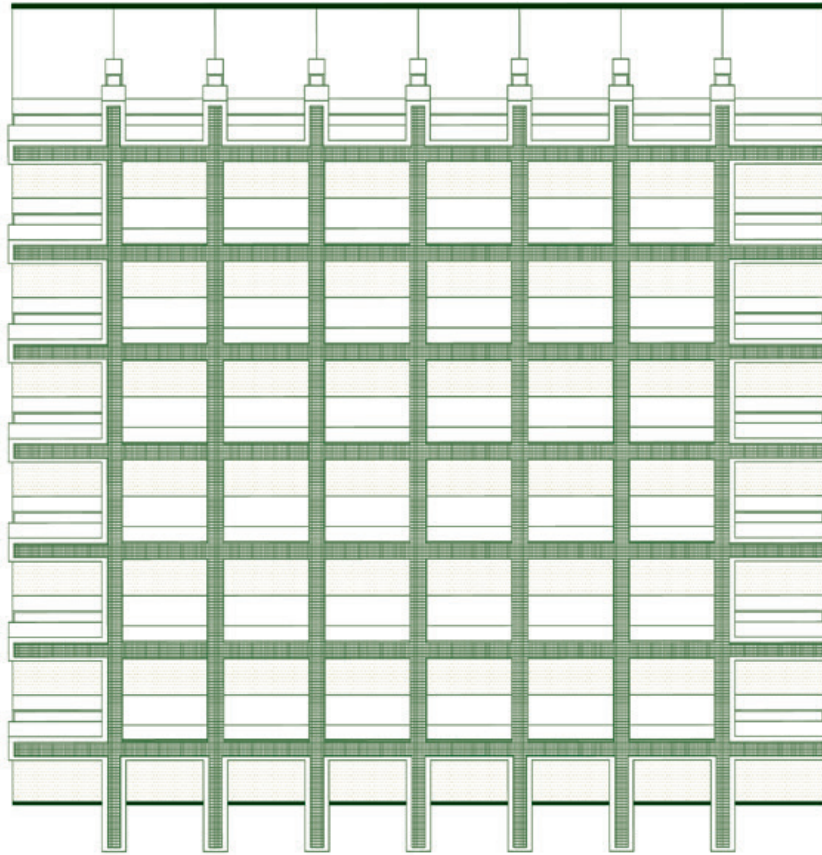
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BARCELONA
JUNE 2024



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Student assistant: Sworn Chattopadhyay



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KEERTHANA REDDY DEVARAJ
SAYED SALAHUDDIN
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