

PORTFOLIO

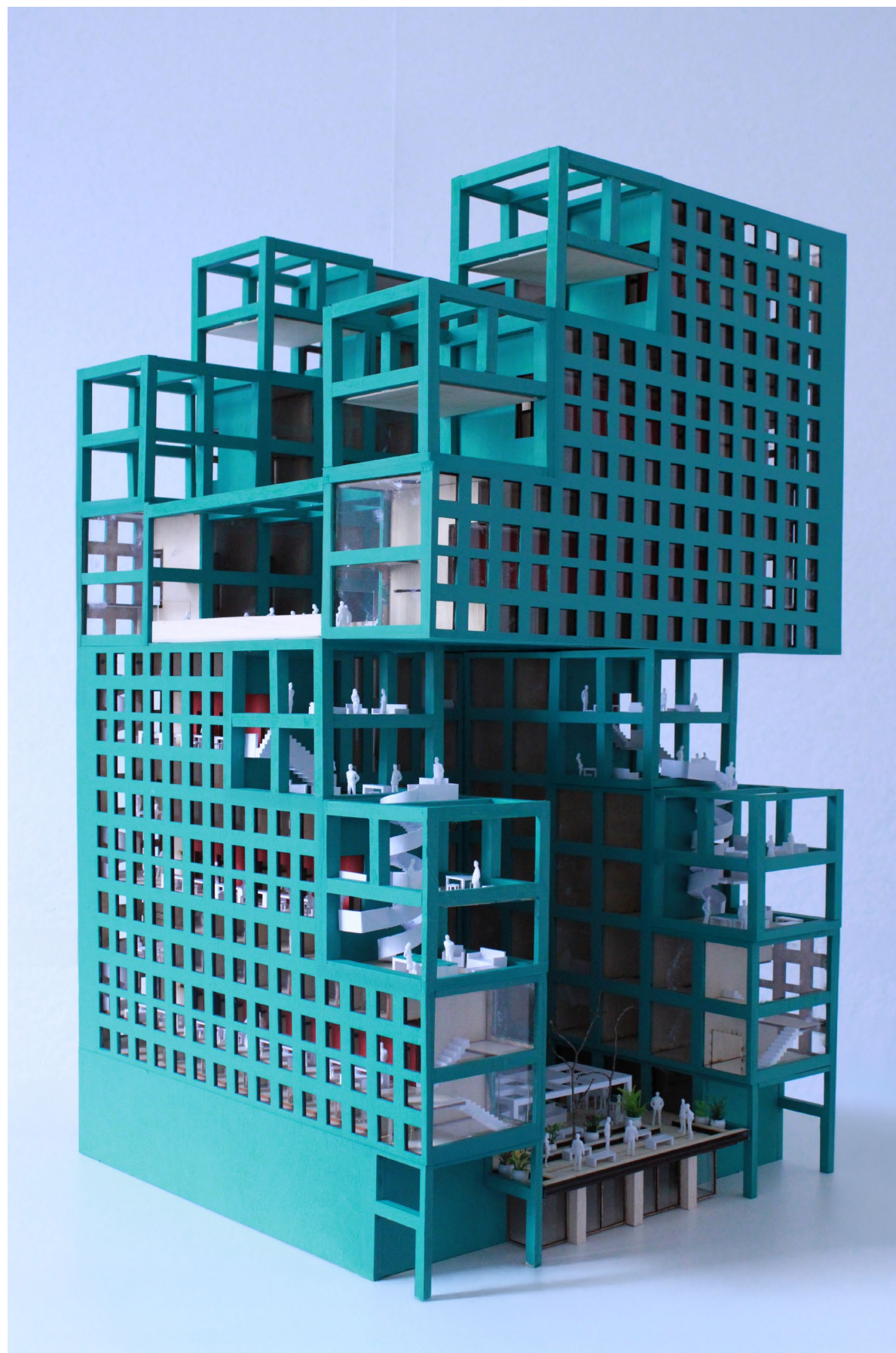
GSAPP MSAAD - SELECTED WORKS

CONTENT

Academic
(Graduate)

- **The GRID** 01
Rethinking housing in the era of the Immaterial labor.
- **Midtown Commons** 02
Midtown Manhattan block Re-edition.
- **A House in the Park** 03
Layered Urbanism in the George Washington bridge corridor.
- **Daylight** 04
Daylight Simulation and analysis of Villa Shodhan by Le Corbusier.

All drawings, models, renders, and images are produced by the author unless otherwise stated.



THE GRID

Architecture Portfolio

01 THE GRID

Rethinking housing in the era of the Immaterial labor
Columbia University - Advanced Studio - Summer Semester - Guided by Prof. Neeraj Bhatia - Group Project with Yucheng Niu

Academic - Graduate

PROJECT BRIEF

GRID reimagines housing for digital workers, freelancers, and creatives whose lives blur between home and work. In response to the post-pandemic shift to remote and hybrid labor, the project addresses the spatial and mental health challenges of compact apartments by extending beyond the micro-unit into a cluster-based system. Organized through U-shaped typologies and skip-stop corridors, GRID structures layered scales of sharing: unit, corridor, terrace, courtyard, and street. Corridors act as active community streets, terraces alternate between leisure and co-working, courtyards host collective programs, and a porous ground floor connects to the city. Through rotation, mirroring, and terracing, clusters aggregate into a flexible grid balancing privacy and collectivity. The architectural frame wraps shared zones, while window rhythms respond to program and daylight. GRID offers a resilient model of collective living that bridges isolation and community in the age of immaterial labor.



CLUSTER MODEL (Scale 1:100)

Design exploration at cluster level to demonstrate arrangement of units and common areas.



UNIT MODEL (Scale 1:10)

Initial unit study, to understand the daily functions of the subject. About 20 square meters in size, where living and working coexist through convertible elements. It functions across multiple daily states.

SCALES OF SHARING

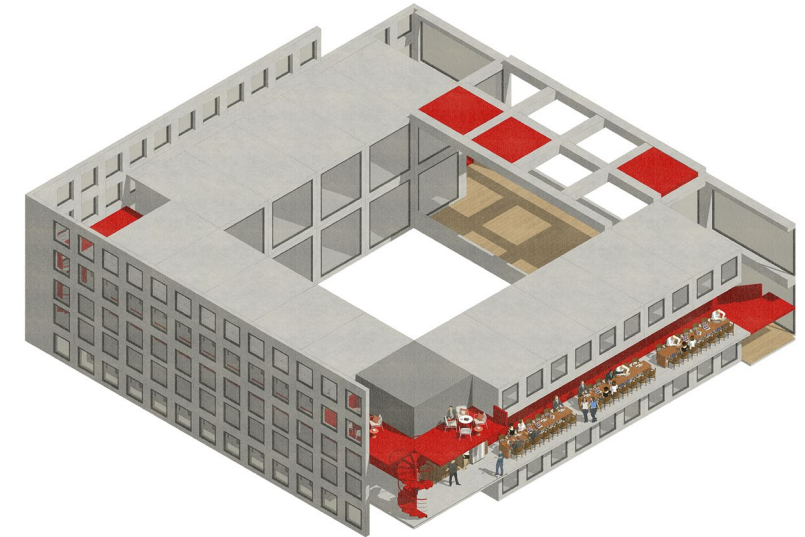
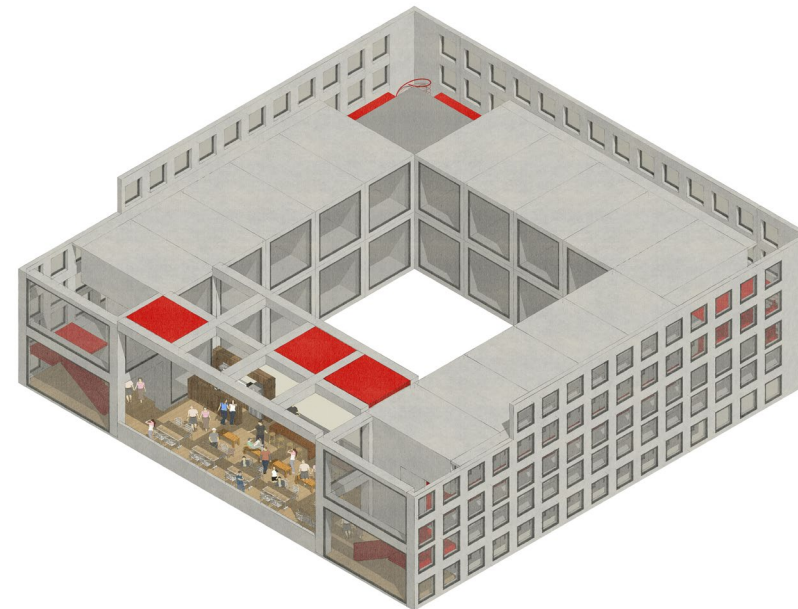
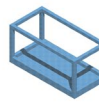
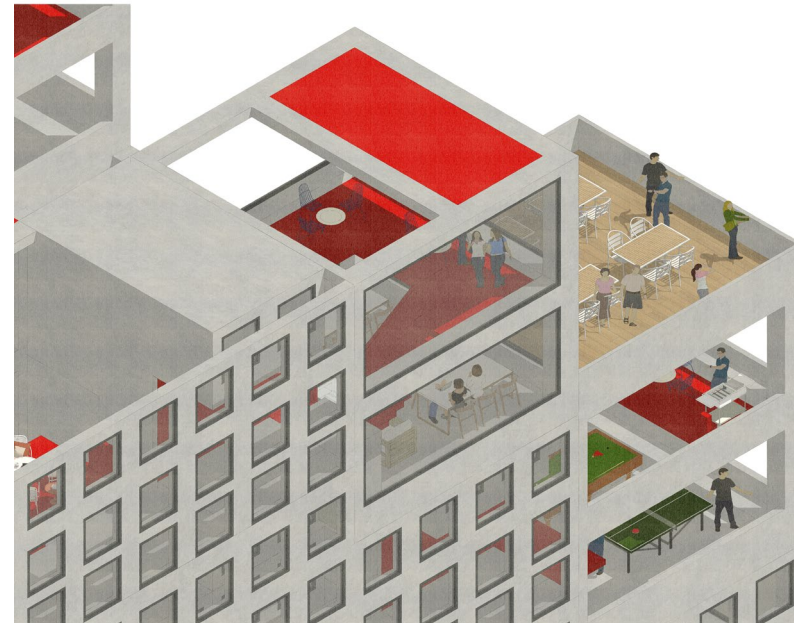
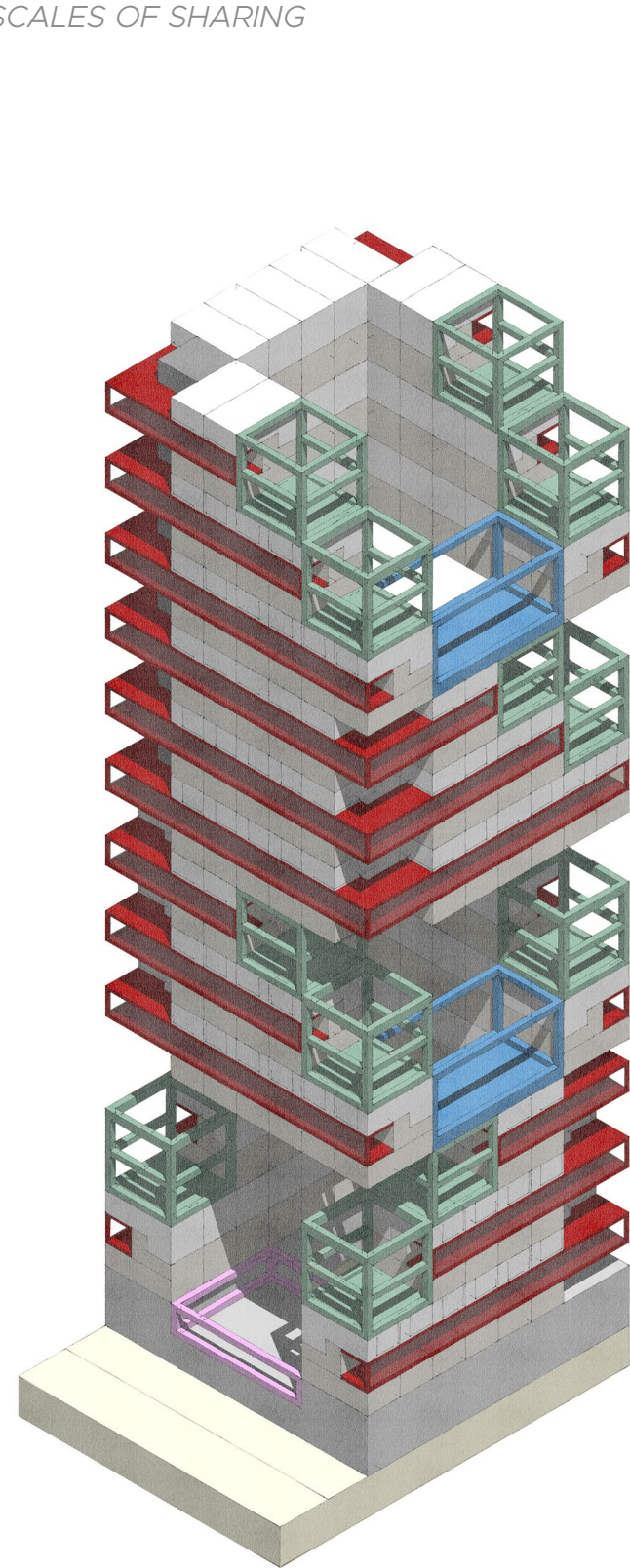
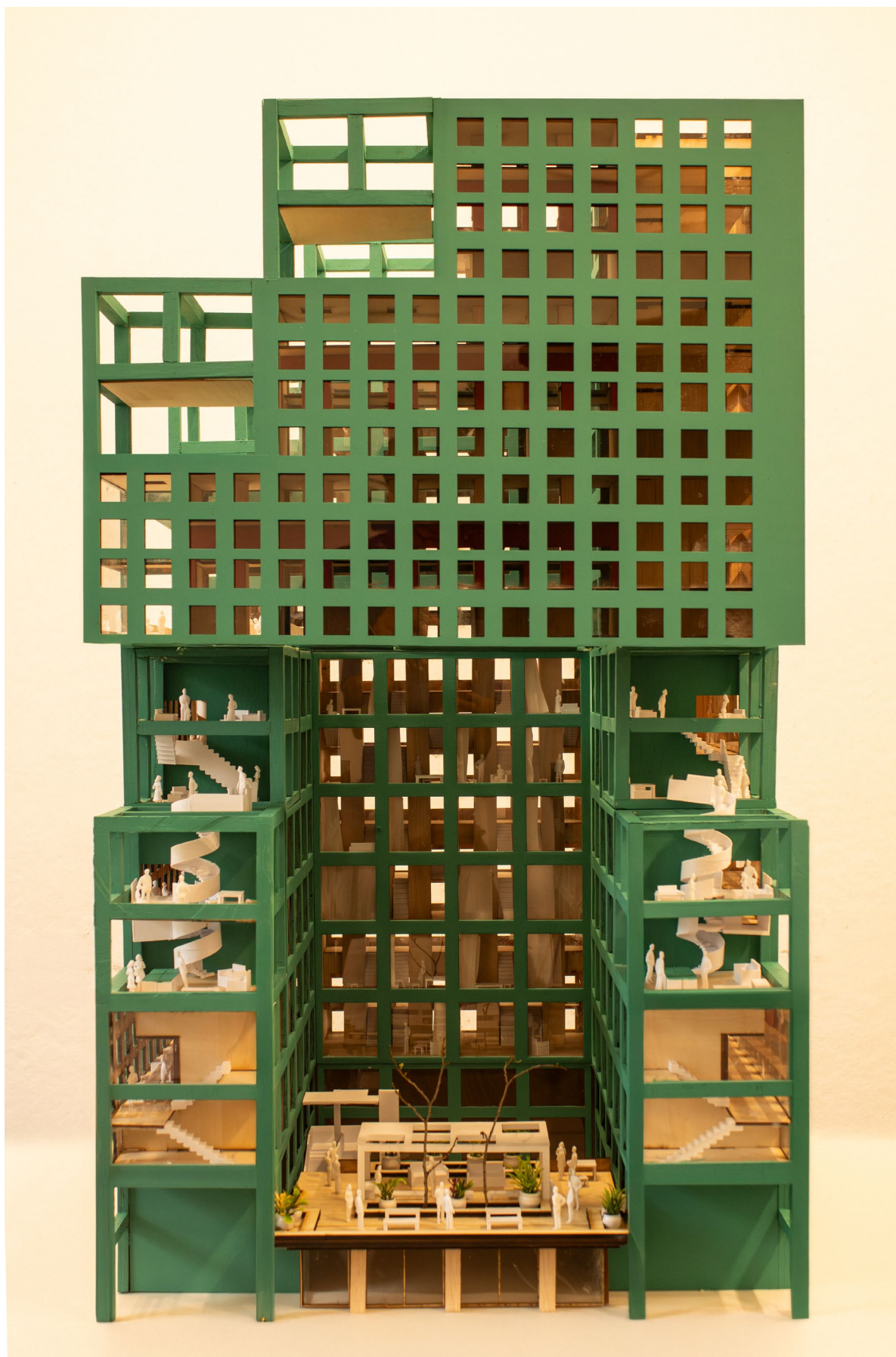


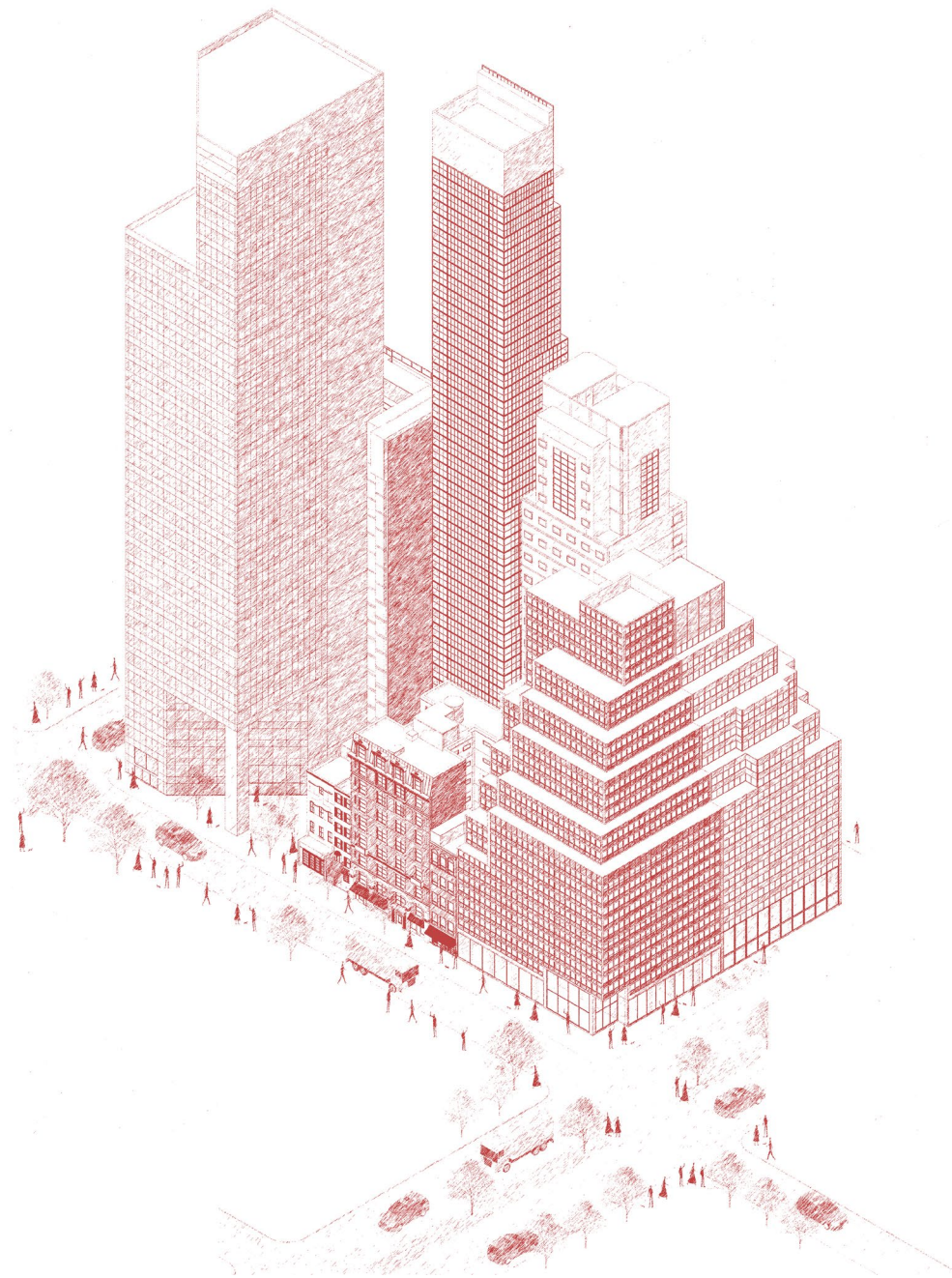
Diagram showcasing the various scales of sharing throughout the building. The project operates across four scales of sharing. The private is the Unit, then the Corridor, the Terrace, the Courtyard, and the Street.



FINAL MODEL (Scale 1:50)
Model and Image by Abhishek Patel & Yucheng Niu



FINAL MODEL (Scale 1:50)
Model and Image by Abhishek Patel & Yucheng Niu



MIDTOWN COMMONS

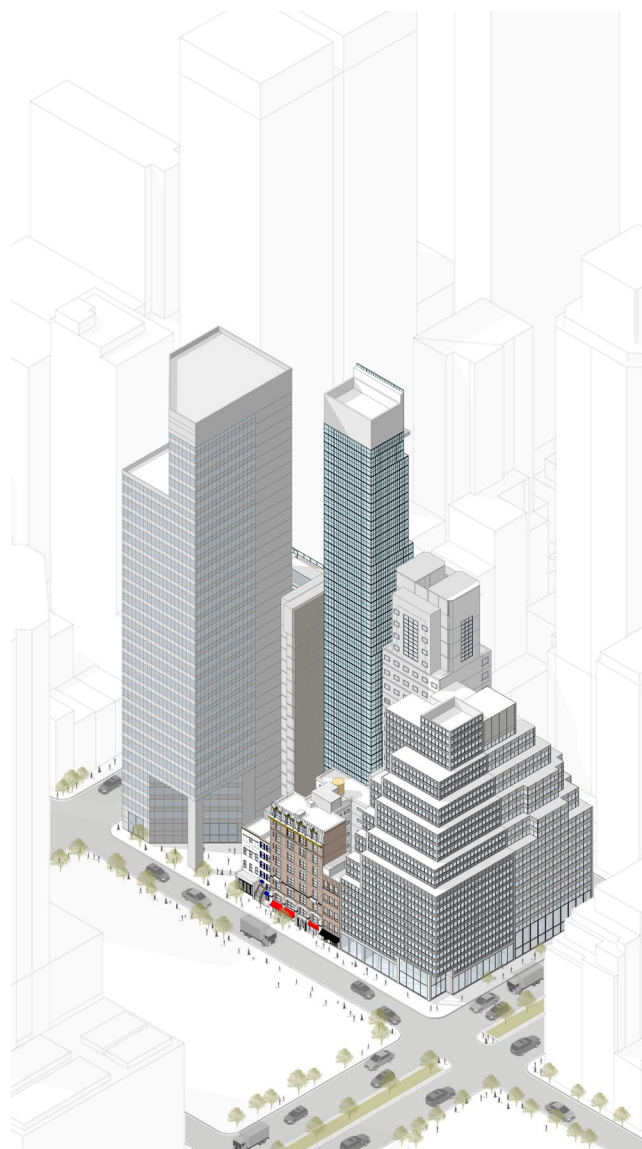
02 MIDTOWN COMMONS

Midtown Manhattan block Re-edition
Columbia University - Advanced Studio - Fall Semester - Guided by Prof. Sebastian Adamo

Academic - Graduate

PROJECT BRIEF

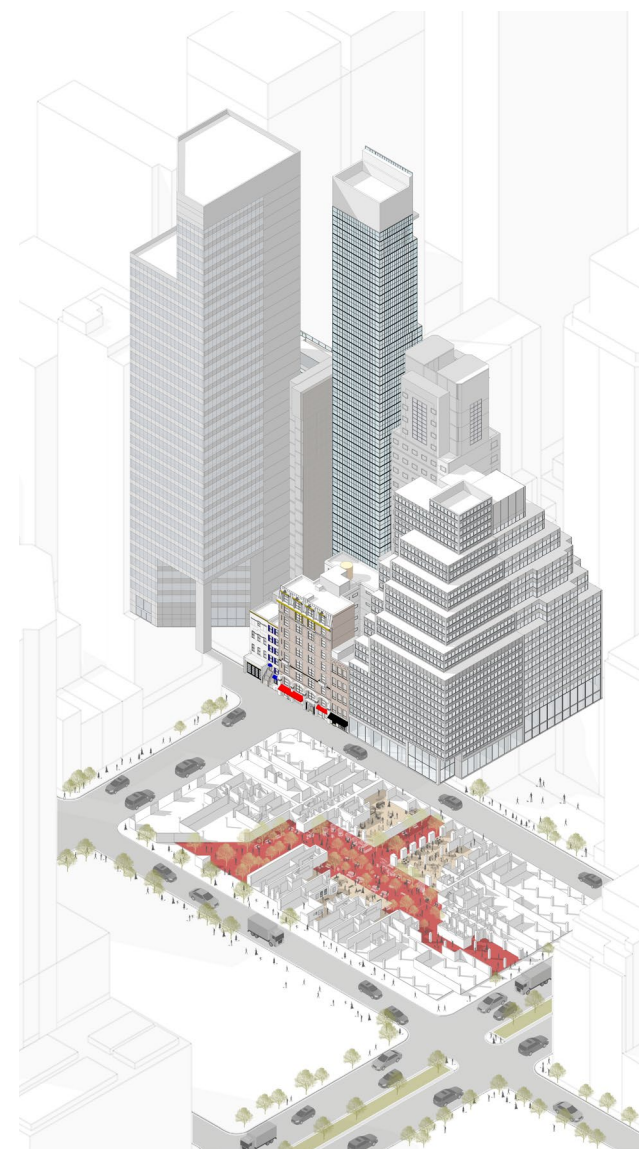
Situated within the dense commercial fabric of Midtown Manhattan, this project reclaims the ground plane as an expanded network of Privately Owned Public Spaces (POPS) that prioritizes civic life over residual real estate. Responding to the thesis that architecture is continually shaped by forces of power and capital, the proposal redirects these forces to strengthen public access, spatial equity, and everyday urban experience. By softening building edges, carving porous thresholds, and extending walkable public corridors through the block, the design transforms the urban edge into an active social interface, revitalizing street life at the heart of New York City.



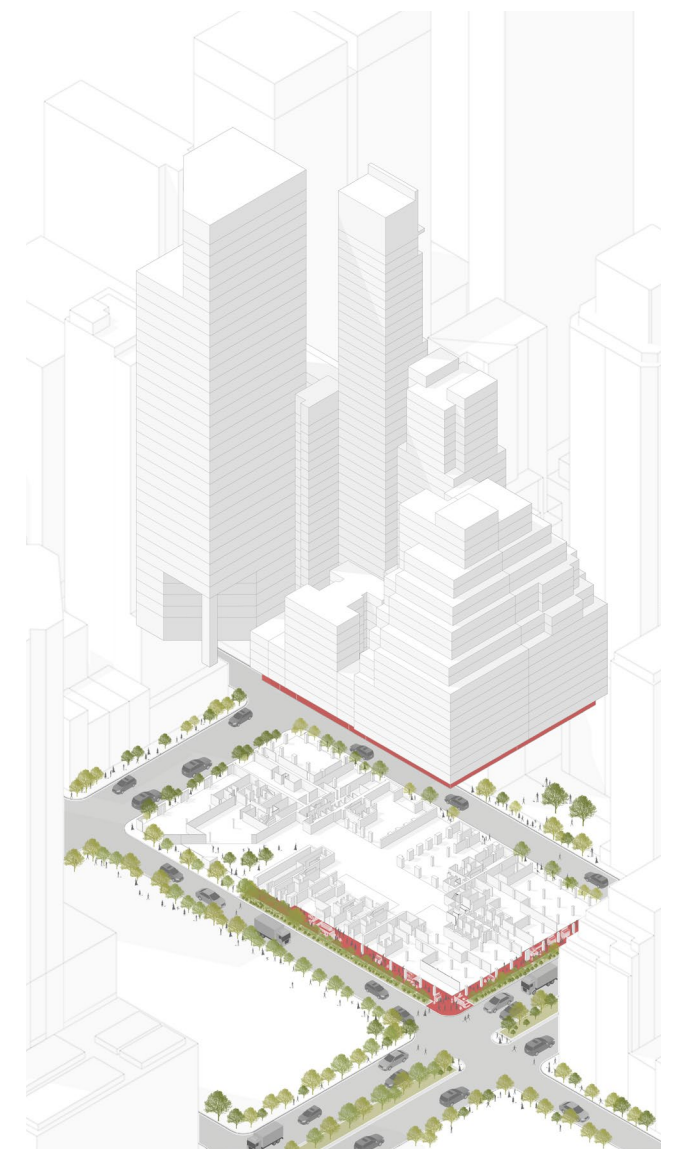
Existing site - Block between E 54th & E 55th street and Park & Madison Ave.



Existing utilised privately owned public space (POPs).

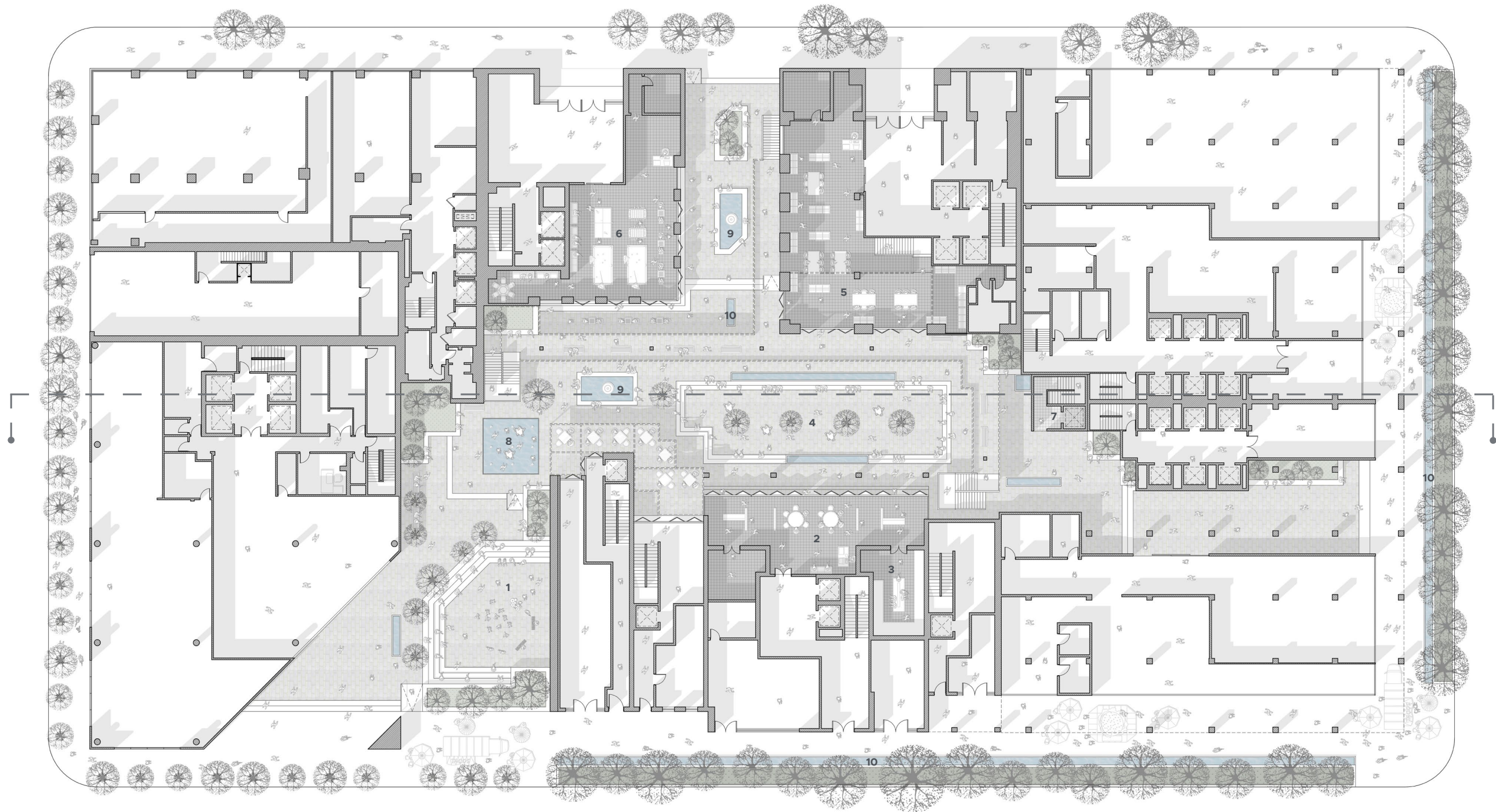


Extension of existing POPs to create a pedestrian corridor, enabling new functions on the ground level.



Rethinking the street edge. Moving the ground floors away from the lot line to bring more space for trees.

GROUND LEVEL PLAN



LEGEND

- | | |
|------------------------------------|--|
| 1. Open Air Amphitheatre | 8. Reflective Cooling Pool |
| 2. Multipurpose Hall | 9. Thermal-Adaptive Cooling Channel |
| 3. Storage for Skating | 10. Evaporative Cooling Fountain Spine |
| 4. Seasonal Skating Rink | |
| 5. Mini-Library + Cafe (Mezzanine) | |
| 6. Indoor Gaming and Recreation | |
| 7. Access to Basement | |

AXONOMETRIC VIEW - GROUND LEVEL





A HOUSE IN THE PARK

03 A HOUSE IN THE PARK

Layered Urbanism at the George Washington Bridge Corridor
Columbia University - Advanced Studio - Spring Semester - Individual Project - Guided by Prof. Galia Solomonoff

Academic - Graduate

PROJECT BRIEF

At the foot of the George Washington Bridge, between highway infrastructure and Fort Washington Park, this project embeds housing within a larger park system to dissolve the hard boundary between the built and the green. A network of programmatic nodes, a bridge park spanning the highway, and an architectural promenade structure continuous movement between dwelling and landscape. Permeable ground floors, skip-stop corridors, and sectional level changes gradually transition private space into public ground. Integration here is not a formal gesture — it is a spatial argument about how people inhabit a city.

SITE LOCATION





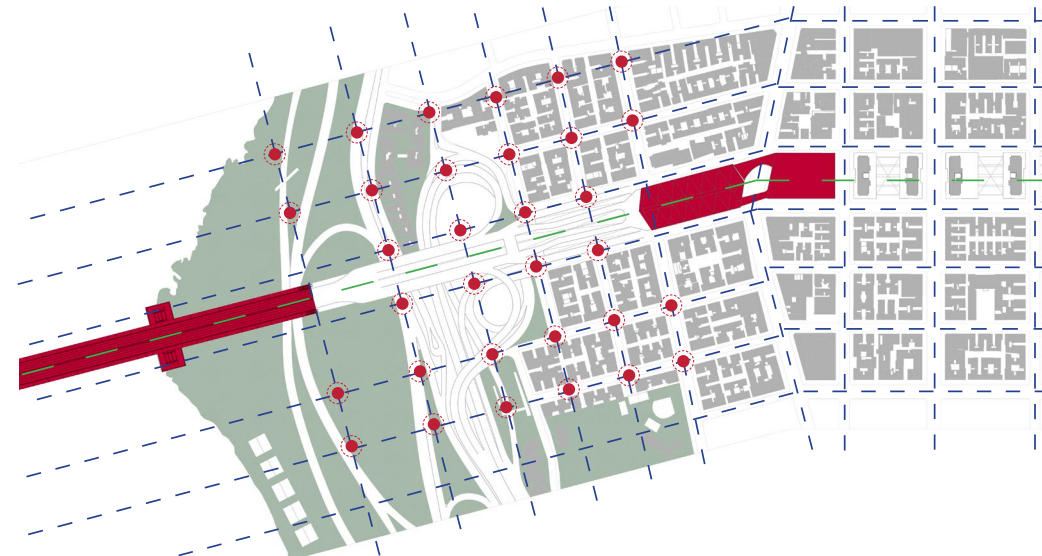
The Built and the Green.



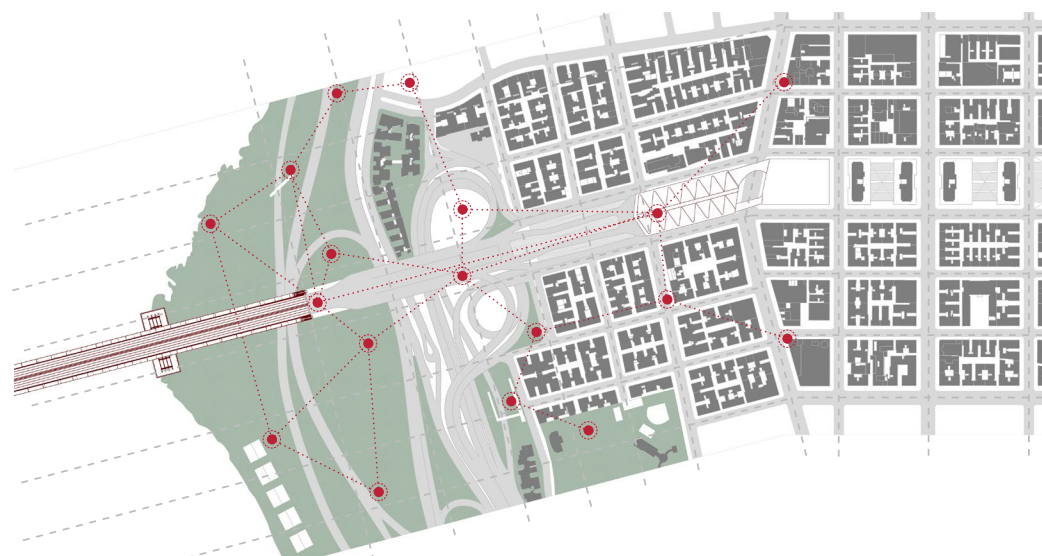
Vehicular Circulation.



Divisional Grid obtained through the Circulation system.



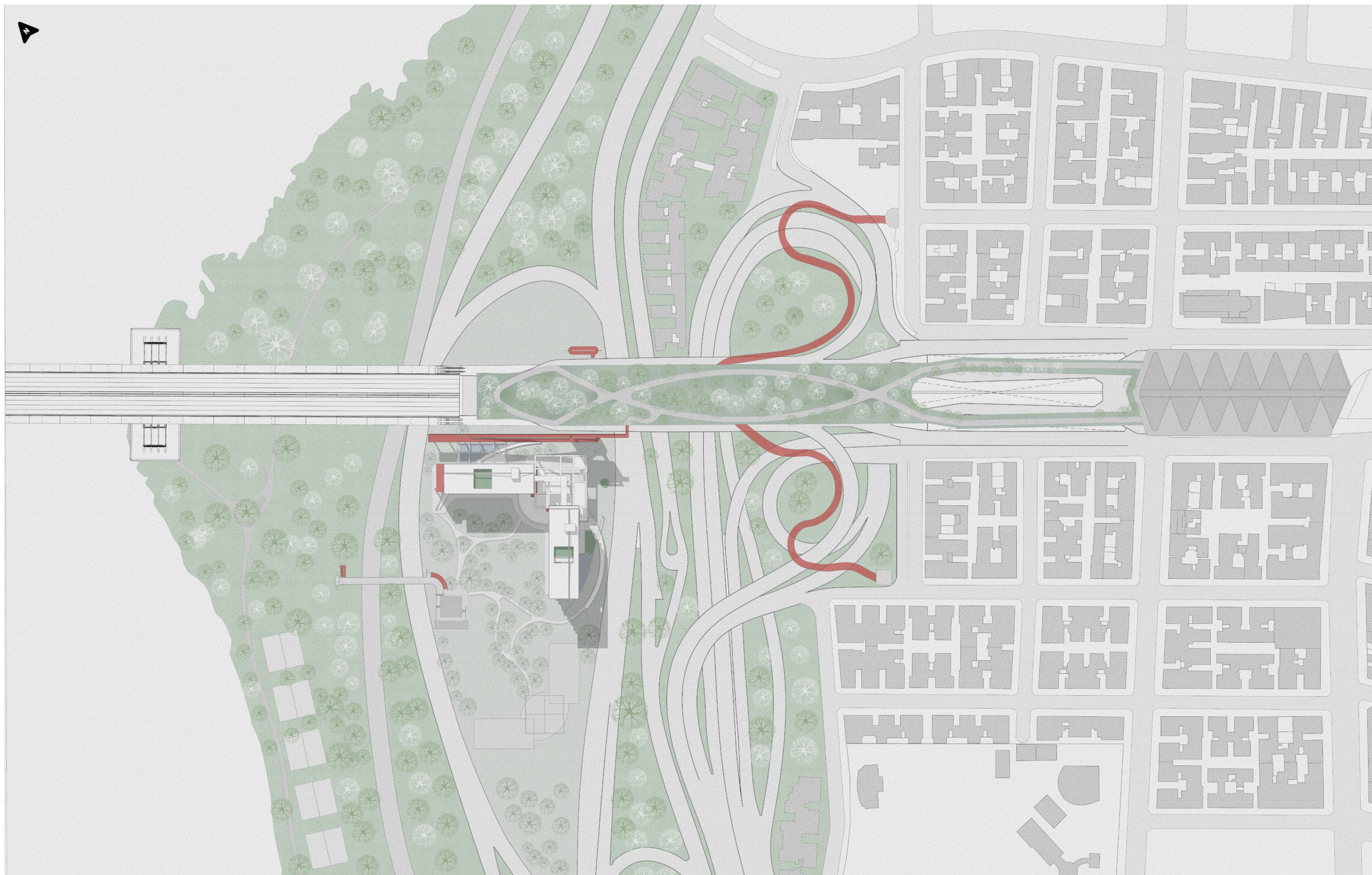
Divisional grid overlaid on built and green; intersections operate as nodes, echoing NYC's system.



Breaking the grid pattern; operational nodes expand into park elements, enabling overlap between built and green.



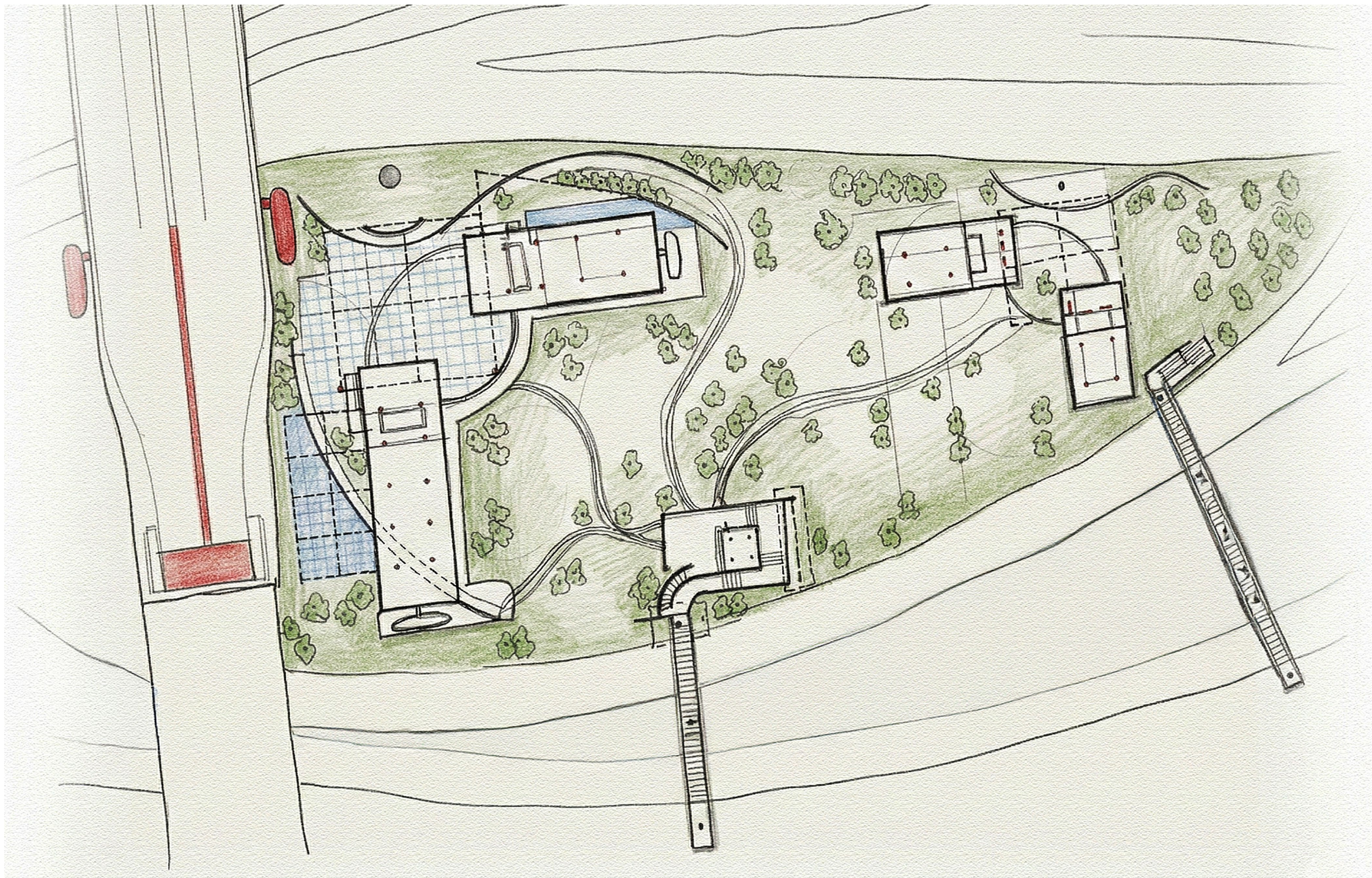
Schematic park as primary system; housing integrates within it alongside functional guiding and circulation elements.



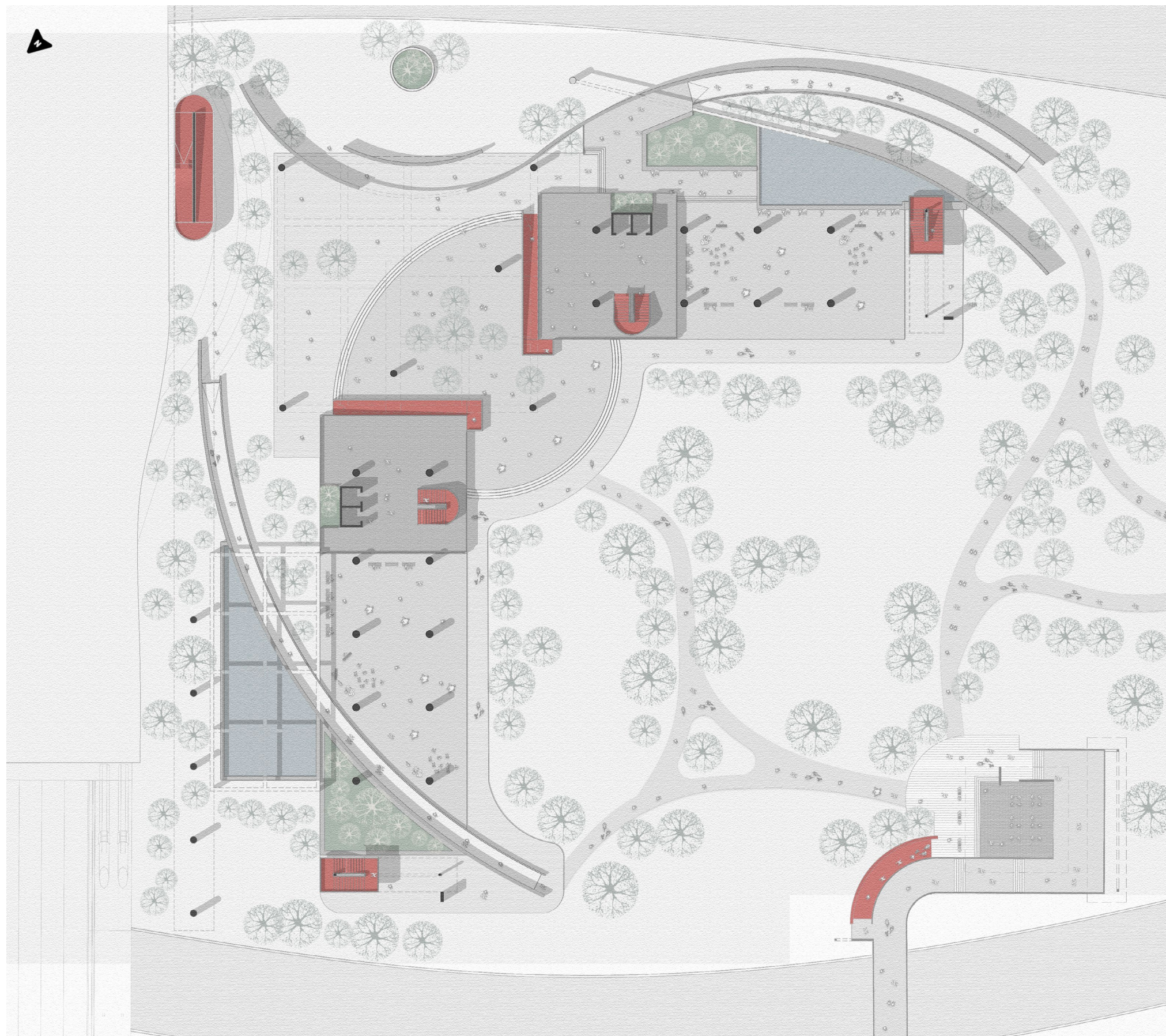
MASTER PLAN



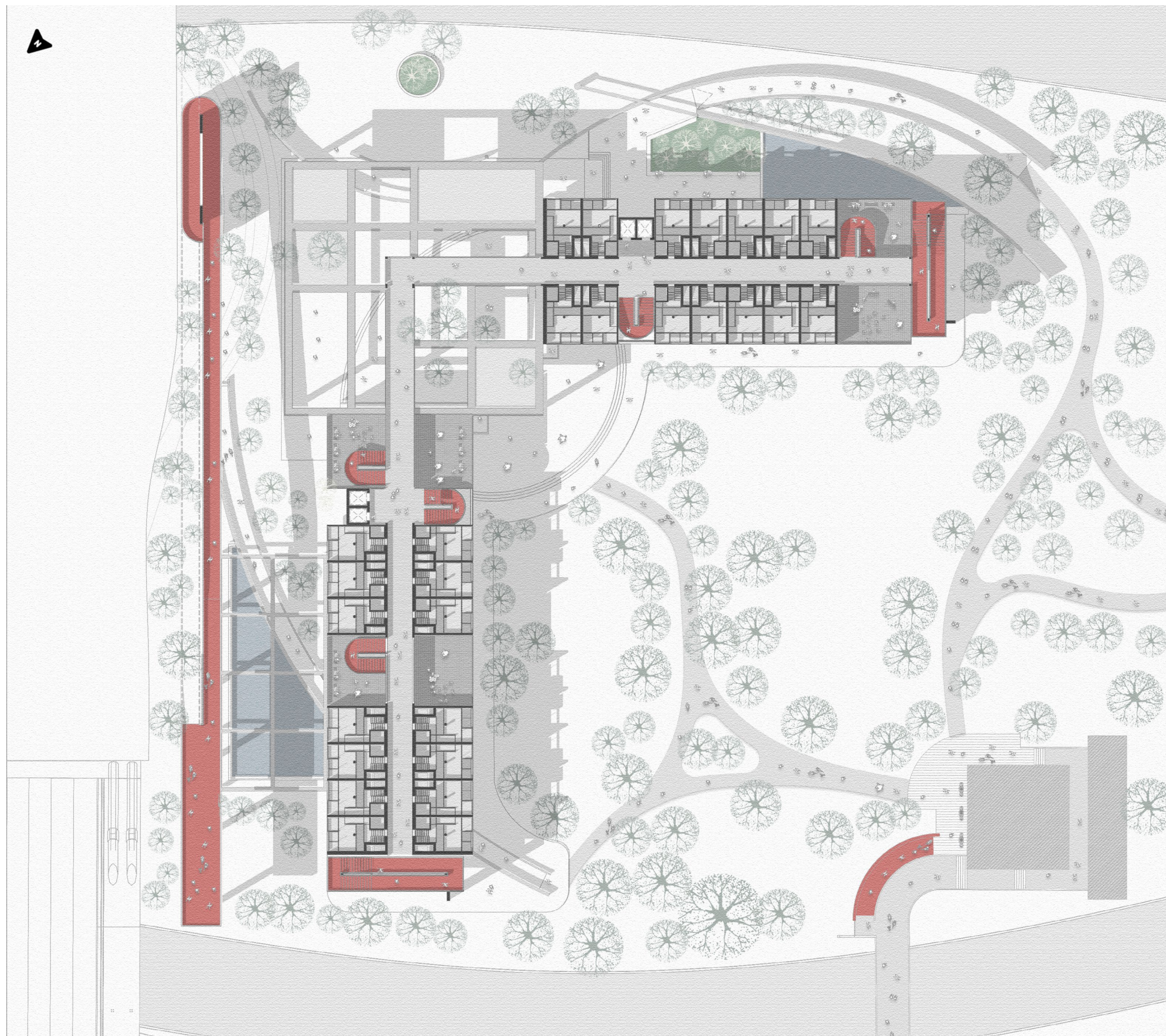
MASTER SECTION



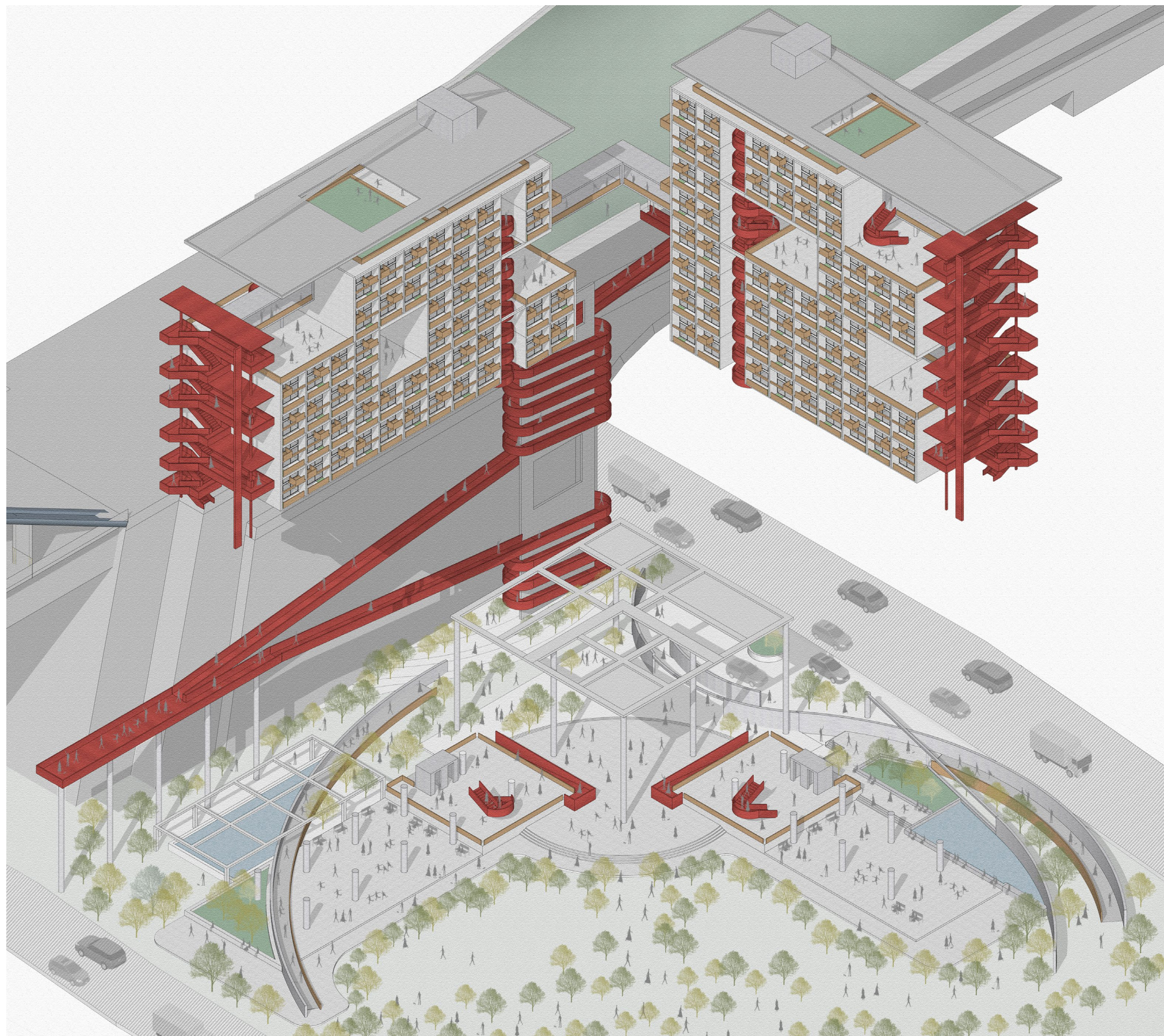
SCHEMATIC SKETCH



GROUND FLOOR PLAN



TYPICAL PLAN



AXONOMETRIC VIEW



SITE MODEL



SITE MODEL



TECTONIC MODEL







04 DAYLIGHT

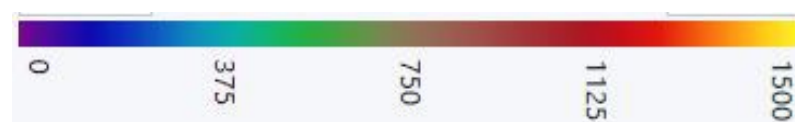
Daylight Simulation and Analysis of Villa Shodhan by Le Corbusier
Columbia University - Daylight & Metabolism - Fall Semester - Guided by Prof. Elliot Glassman

Academic - Graduate

PROJECT BRIEF

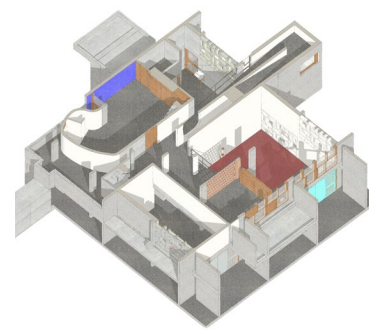
This daylight simulation study analyzes Villa Shodhan in Ahmedabad, investigating how Le Corbusier's architectural strategies of orientation, shading, and spatial layering respond to the region's intense solar conditions. Through point-in-time illuminance visualizations across three levels of the residence, the project demonstrates how daylight is carefully moderated to enhance visual comfort while limiting glare and heat gain. Using Climate Studio to translate design intent into measurable performance, the study positions Villa Shodhan as a refined example of climate-responsive modernist architecture with continuing relevance for contemporary sustainable design in hot climates.

Villa Shodhan by Le Corbusier

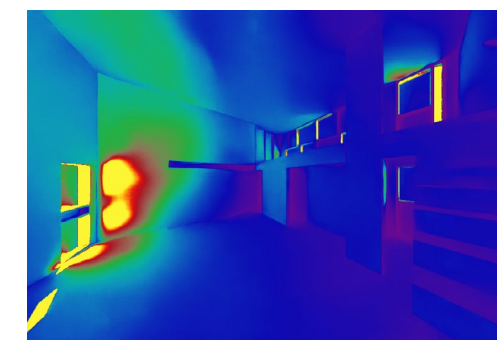
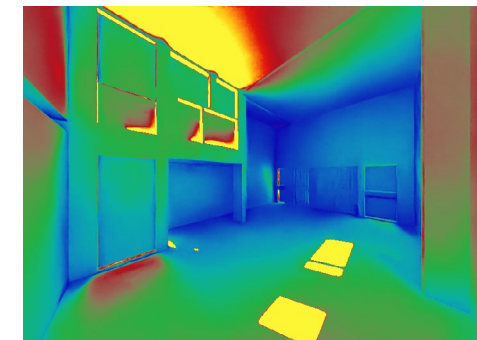
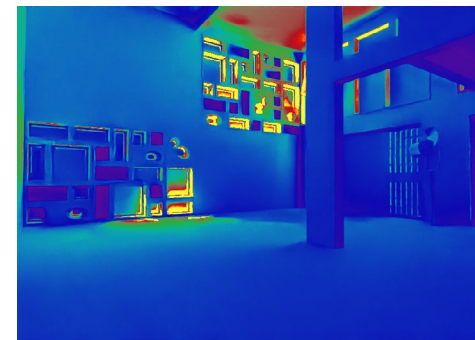


POINT IN TIME ILLUMINANCE ANALYSIS

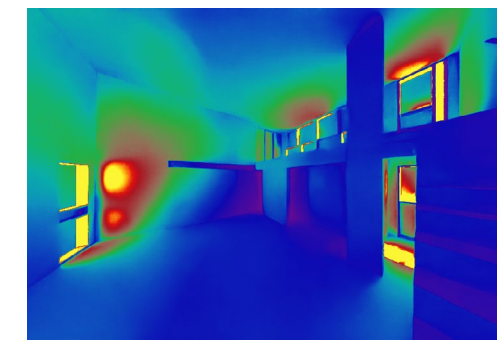
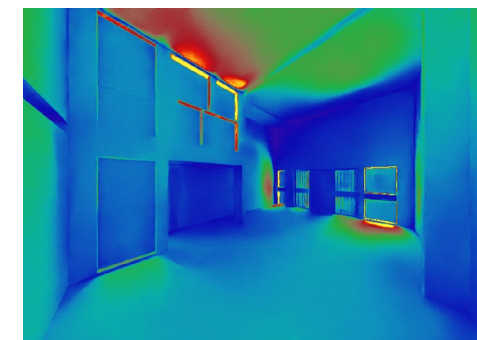
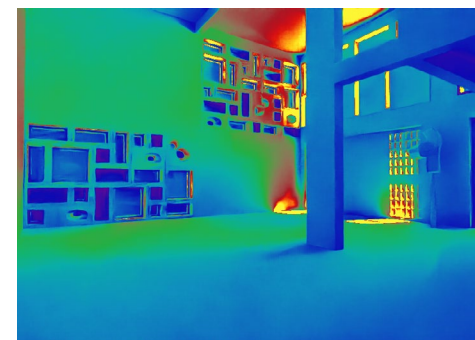
March, 20
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10:00 AM



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