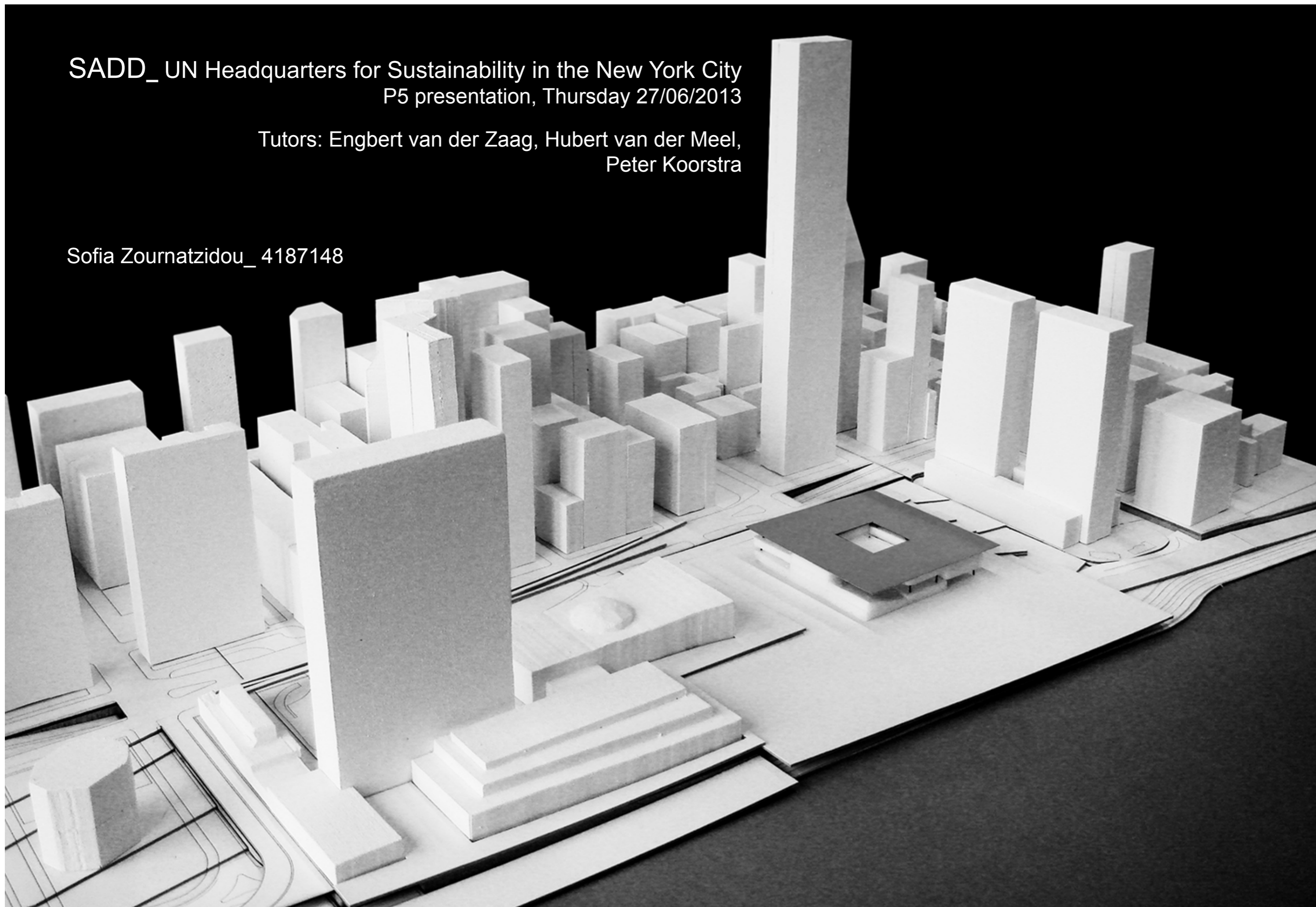


SADD_ UN Headquarters for Sustainability in the New York City
P5 presentation, Thursday 27/06/2013

Tutors: Engbert van der Zaag, Hubert van der Meel,
Peter Koorstra

Sofia Zournatzidou_ 4187148



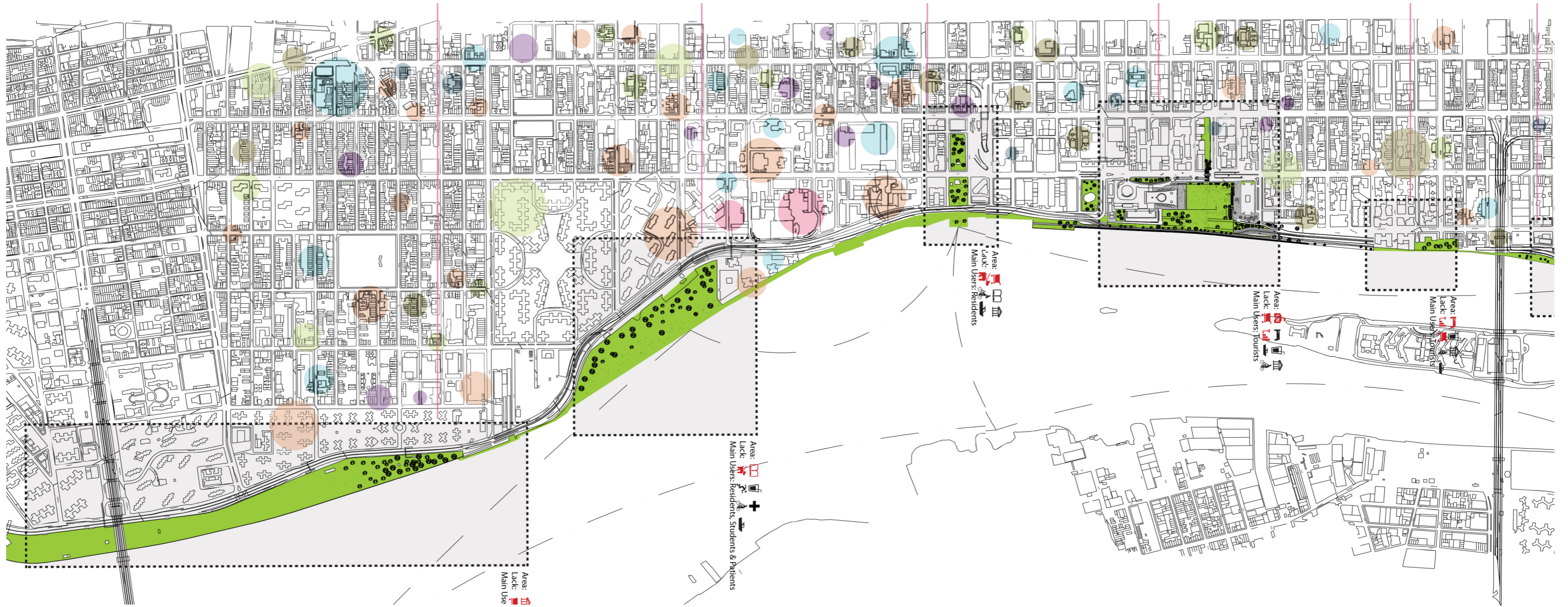
Content :

1. Urban position
2. Programmatic requirements
3. Architectural position
4. Sustainability
5. Building Technology

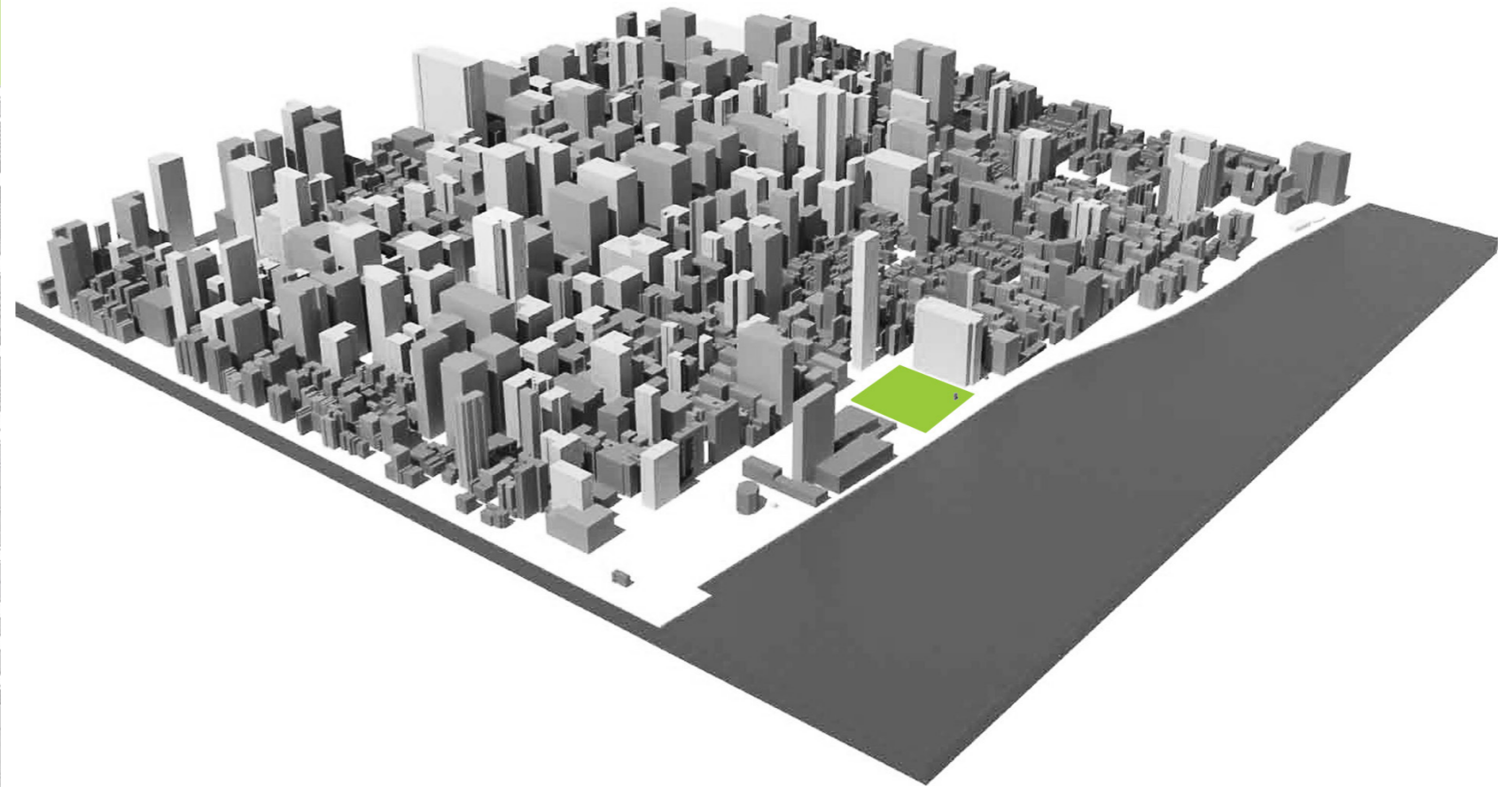
1. Urban position



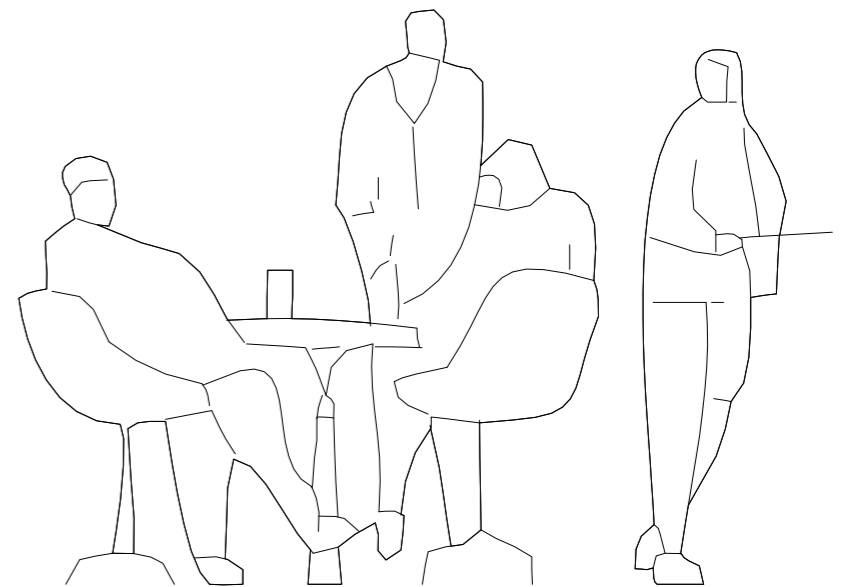
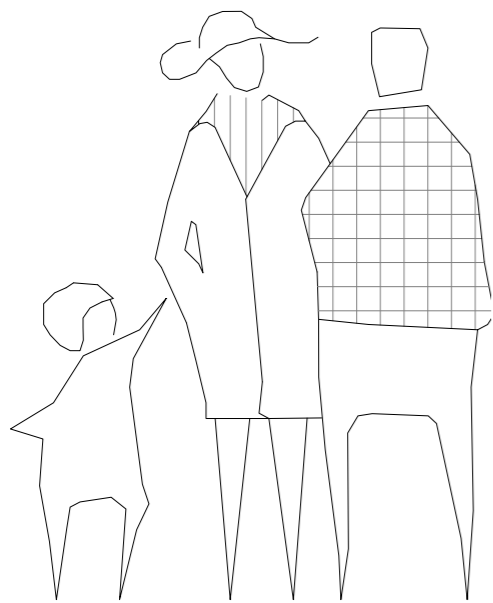
Masterplan proposal, Waterfront- Green Belt

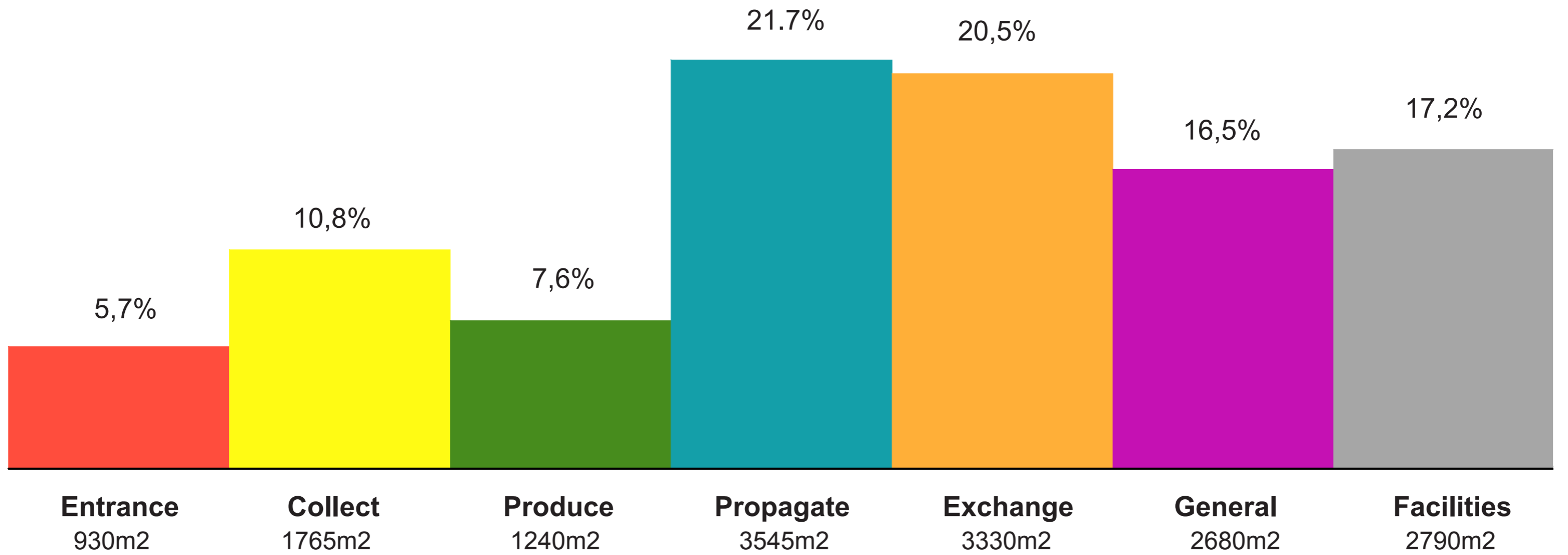


Strict grid, Green islands, Density



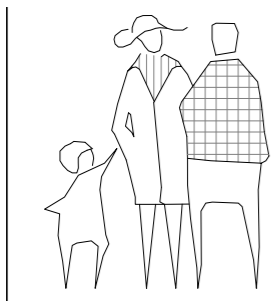
2. Programmatic requirements





Total Nett Floor Area 16.280 m²

Public/ Private	Entrance	Collect	Produce	Propagate	Exchange	General	Facilities	Total
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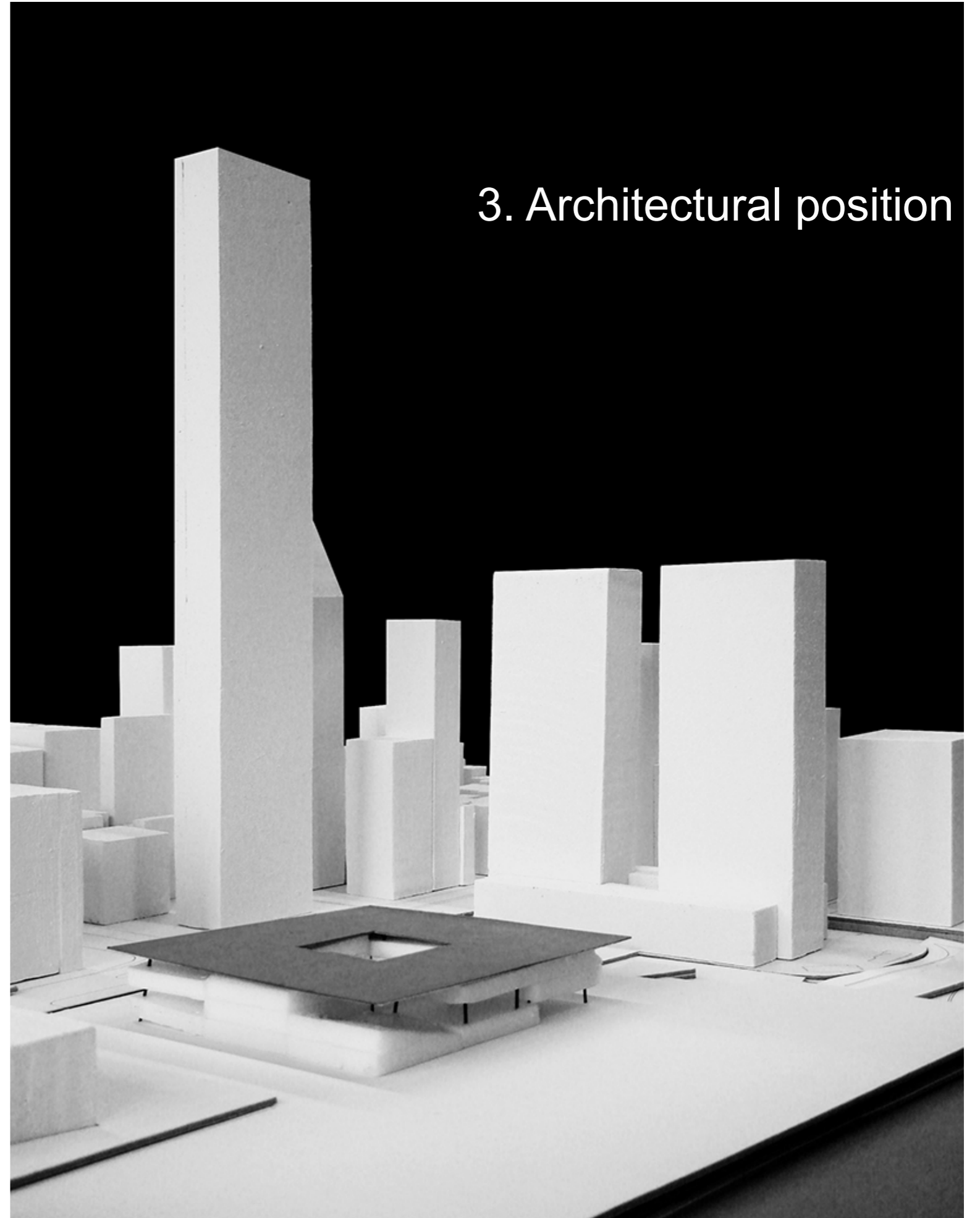


95%	55%	0%	63%	88%	0%	50%	50%
-----	-----	----	-----	-----	----	-----	-----

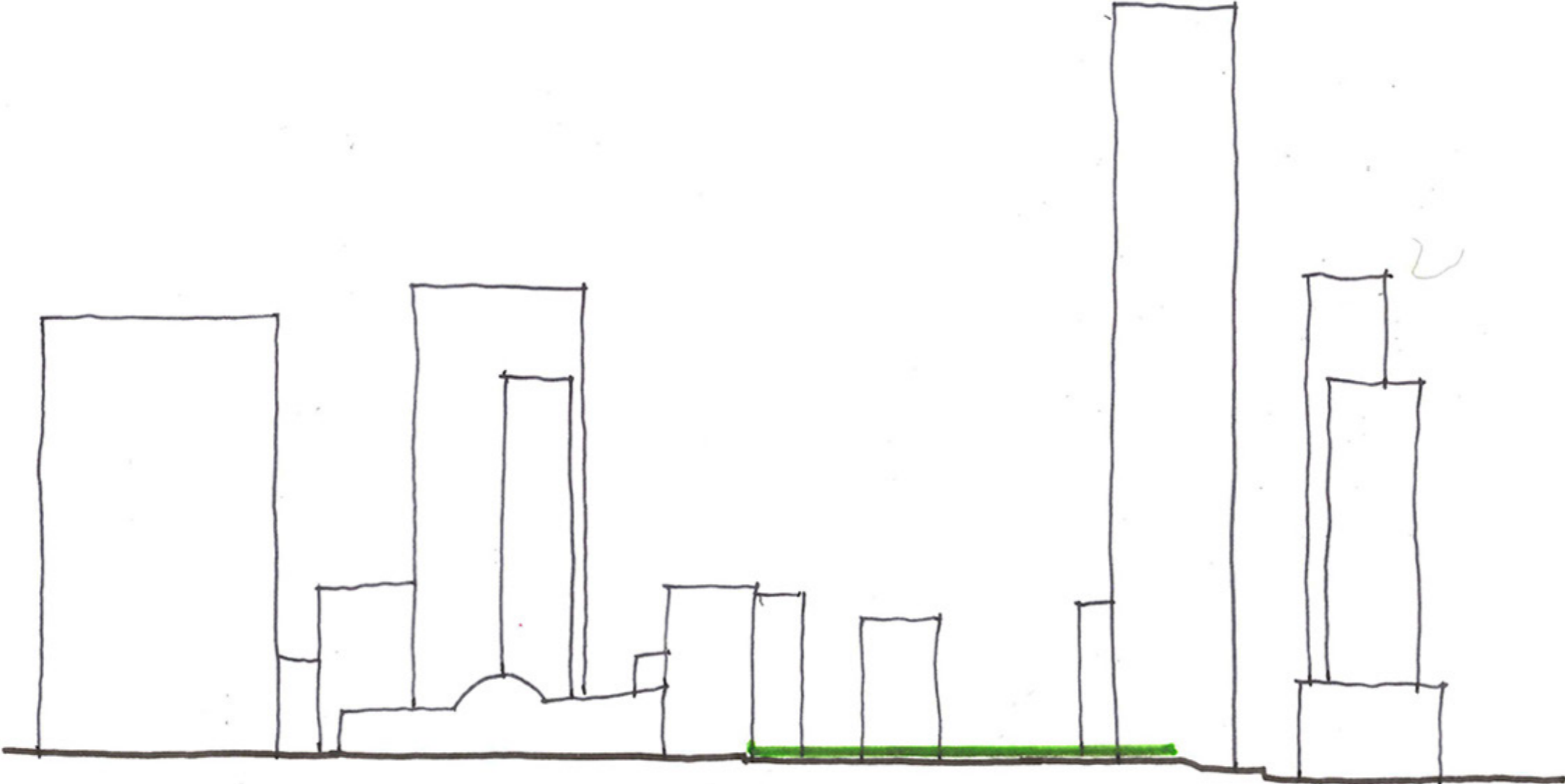


5%	45%	100%	37%	12%	100%	50%	50%
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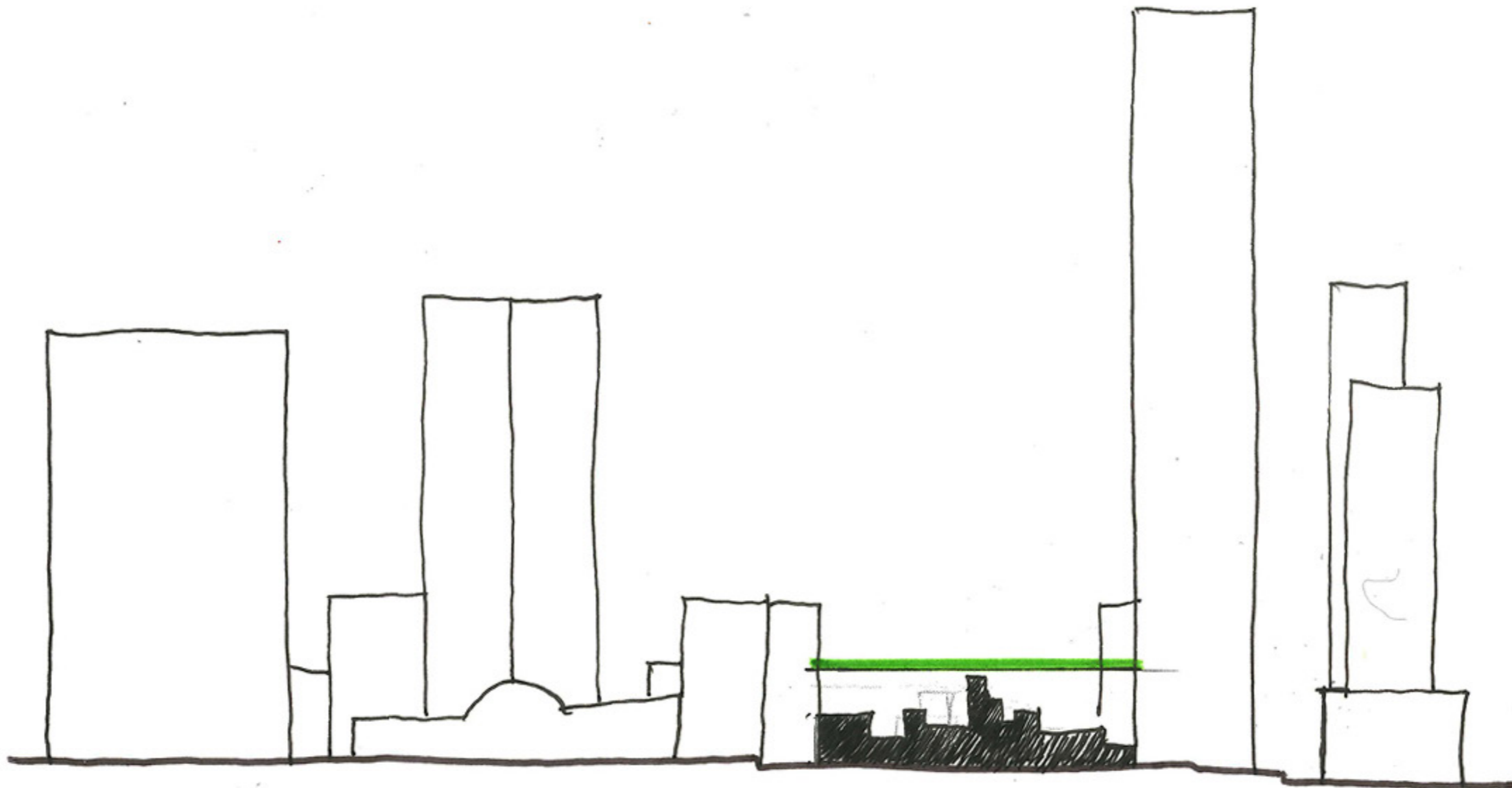
3. Architectural position



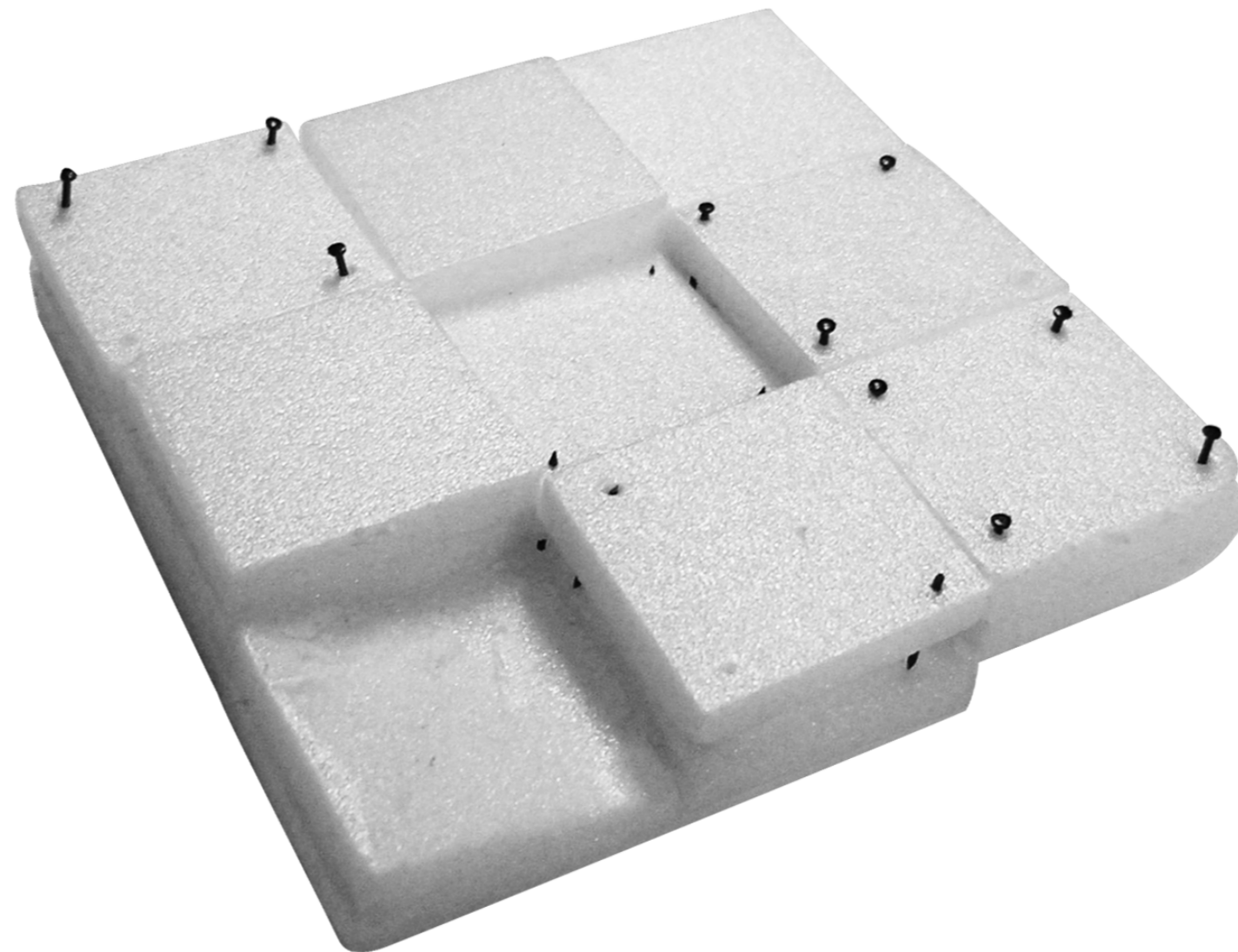
The city and the site



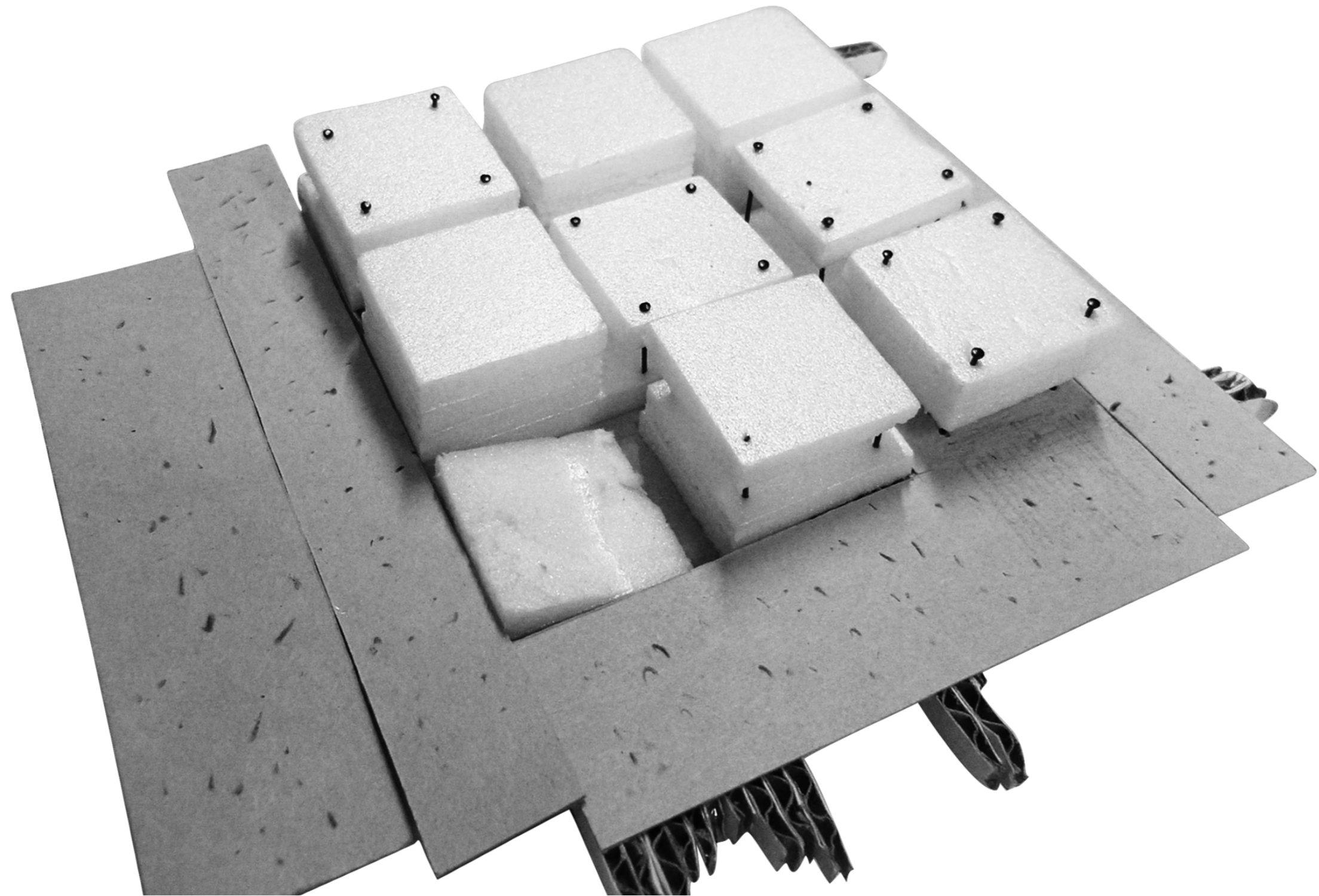
The city in the site



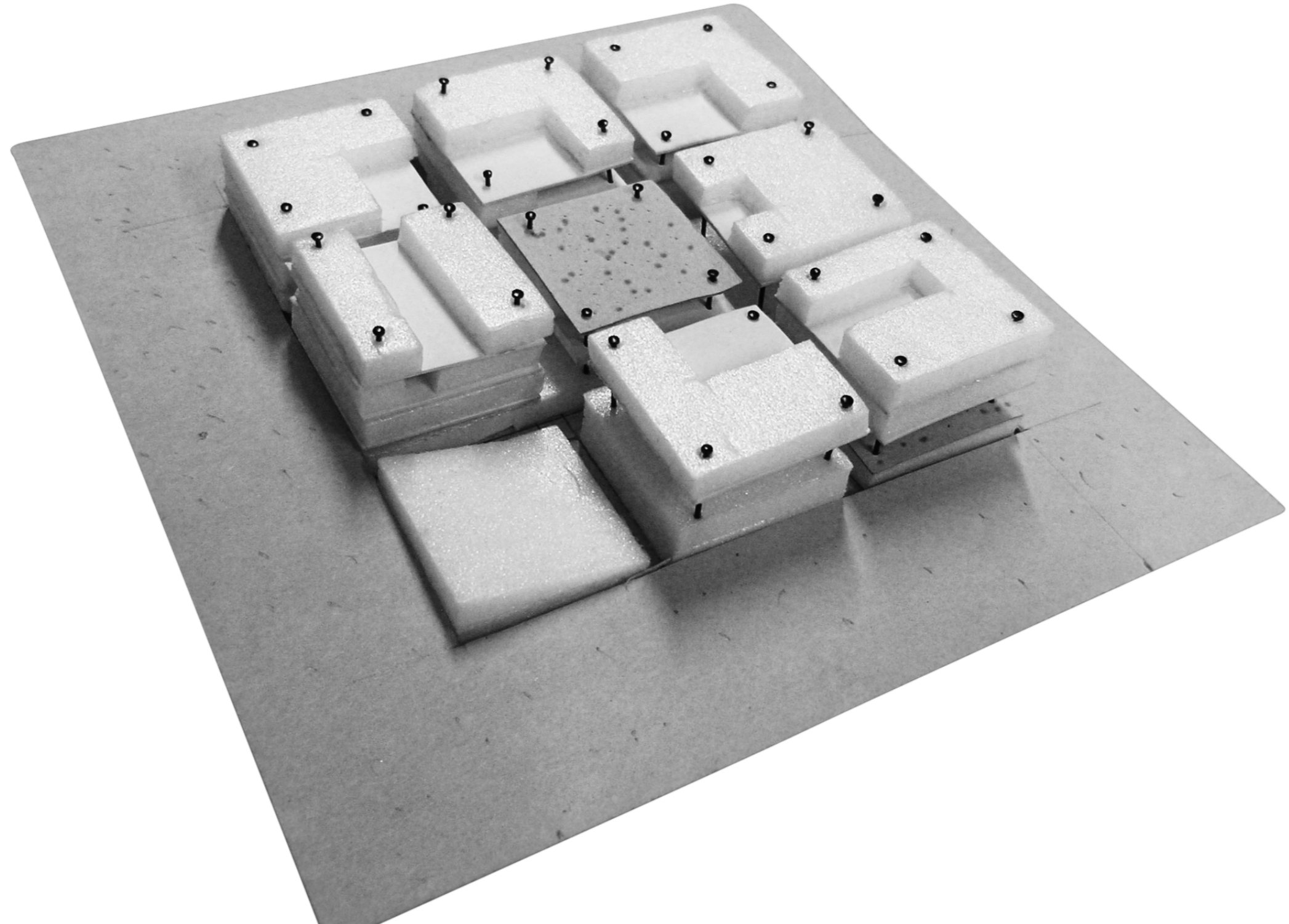
Mass and Void



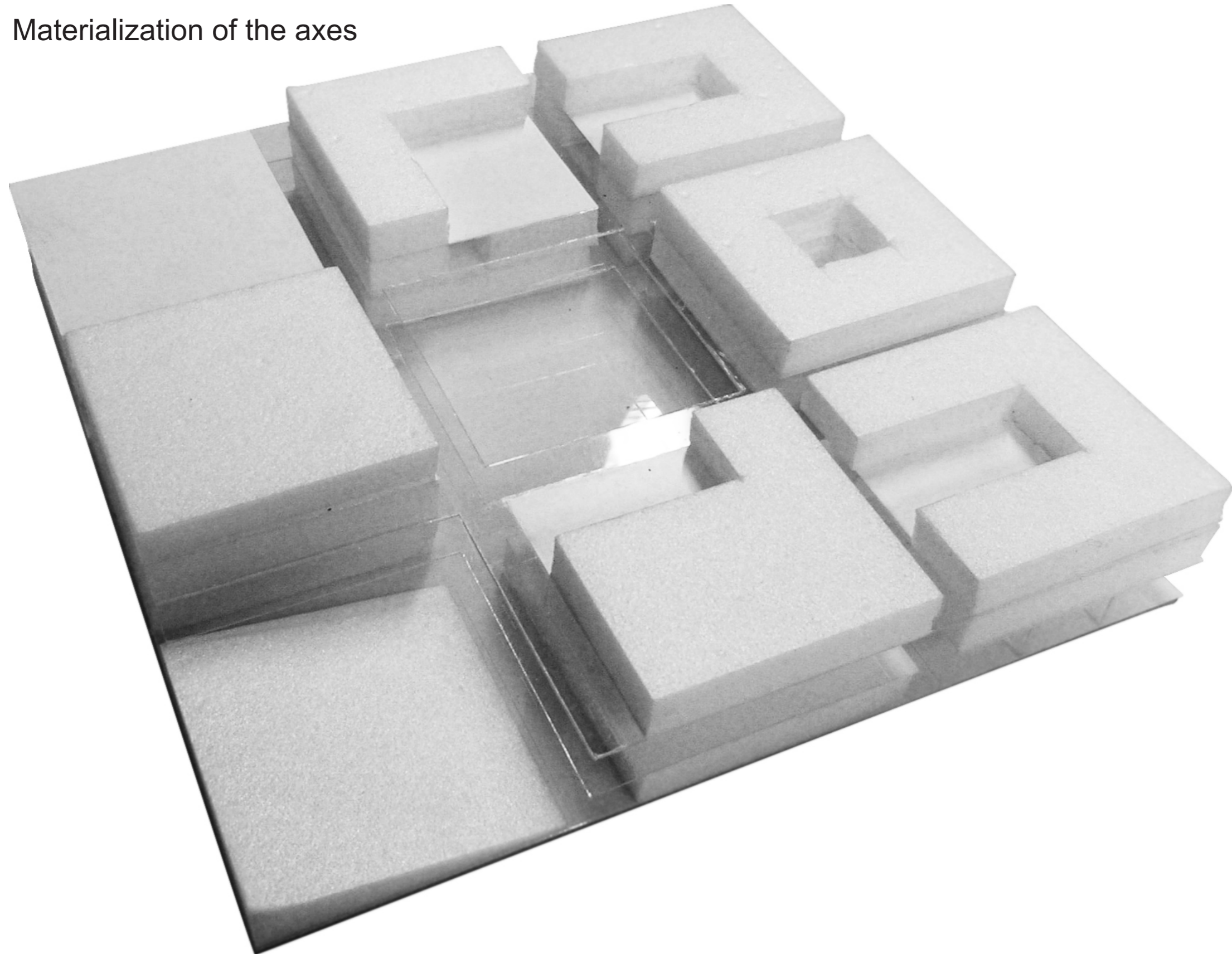
Circulation axes



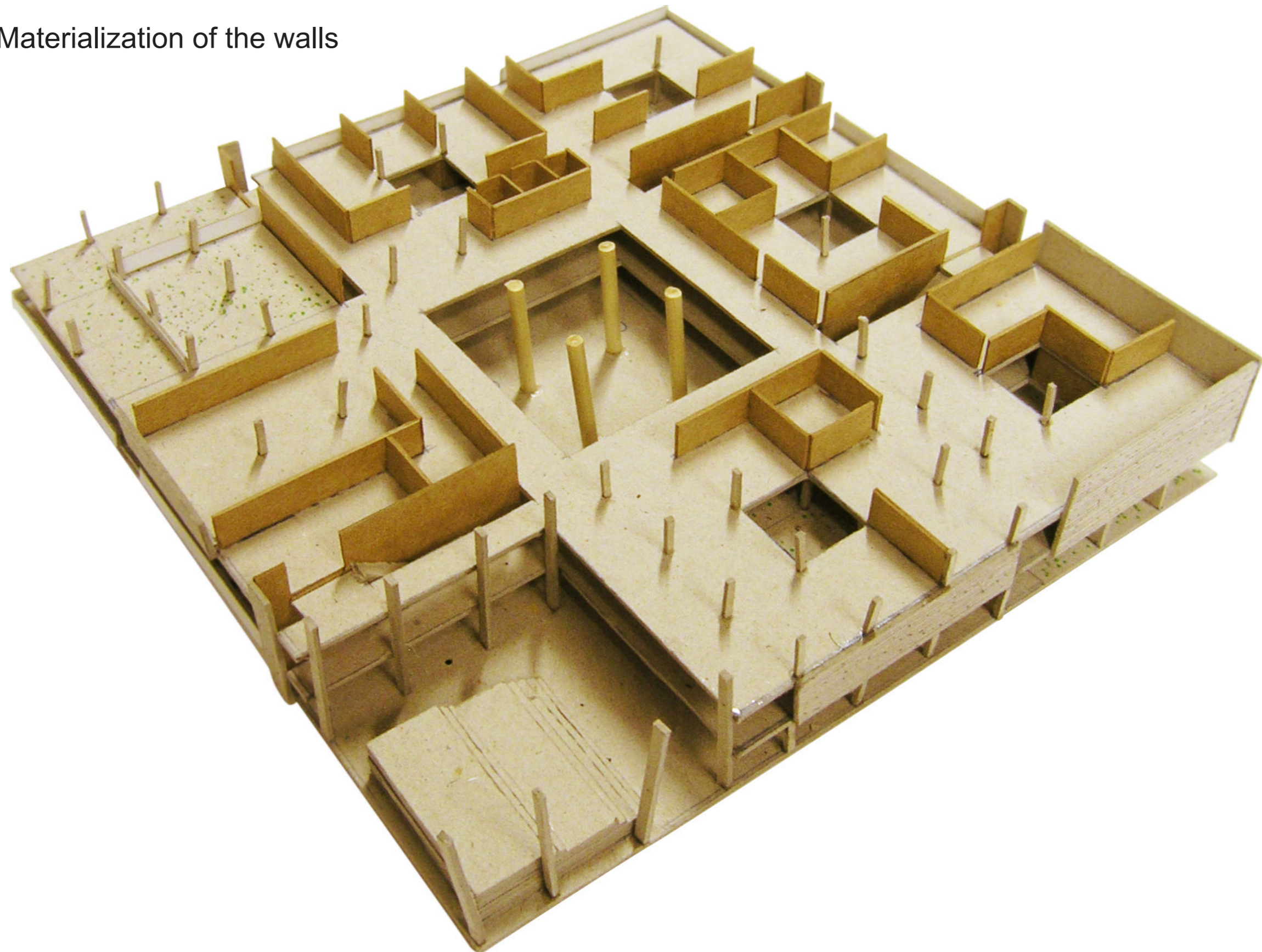
Intermediate spaces



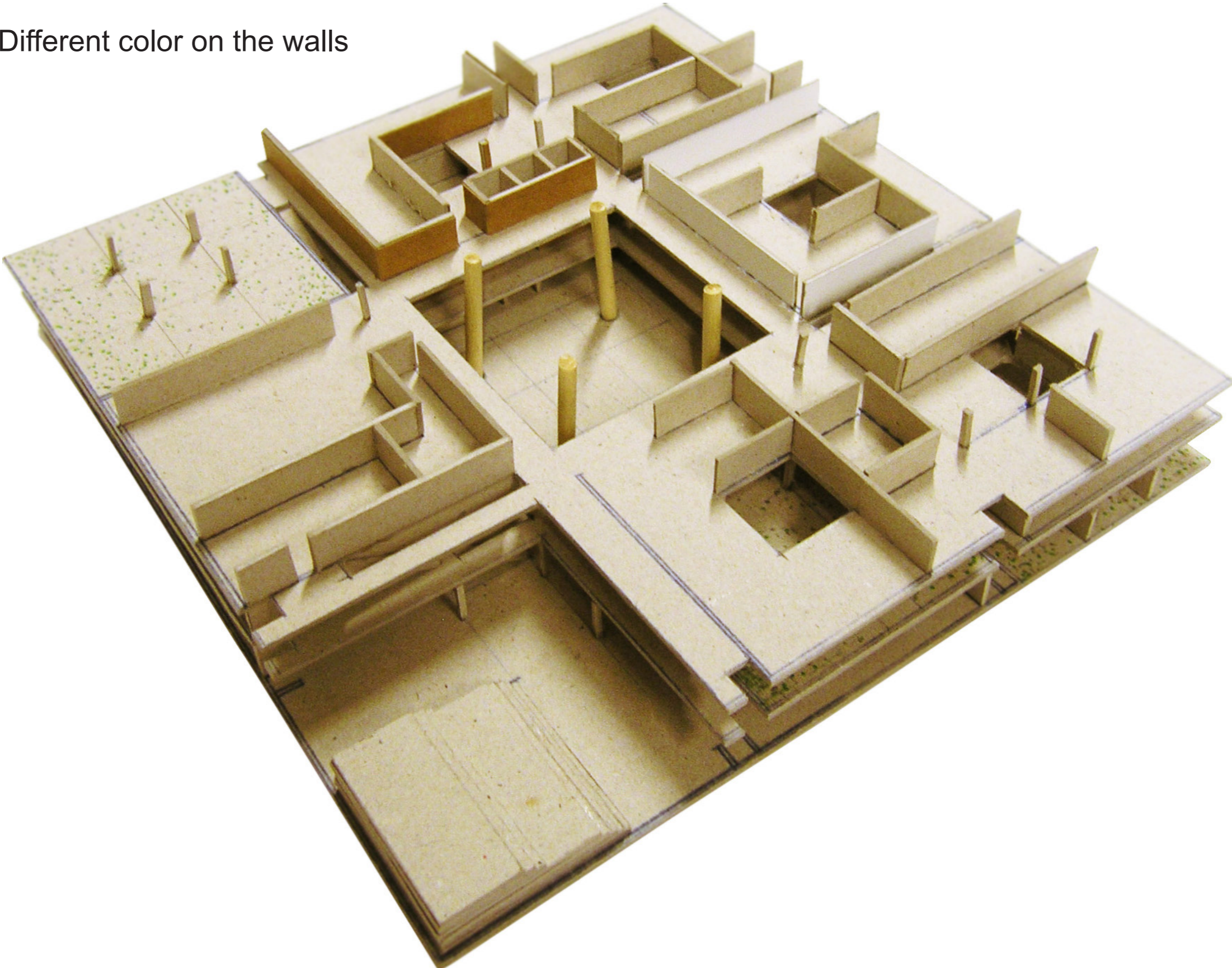
Materialization of the axes

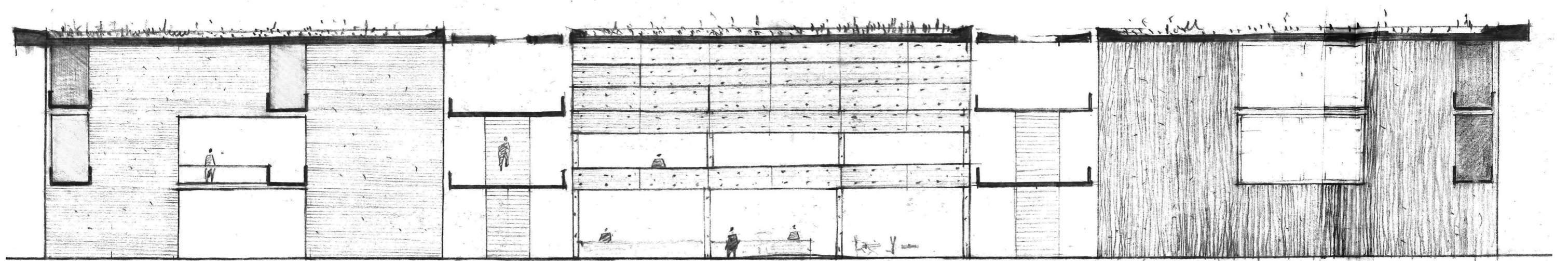


Materialization of the walls

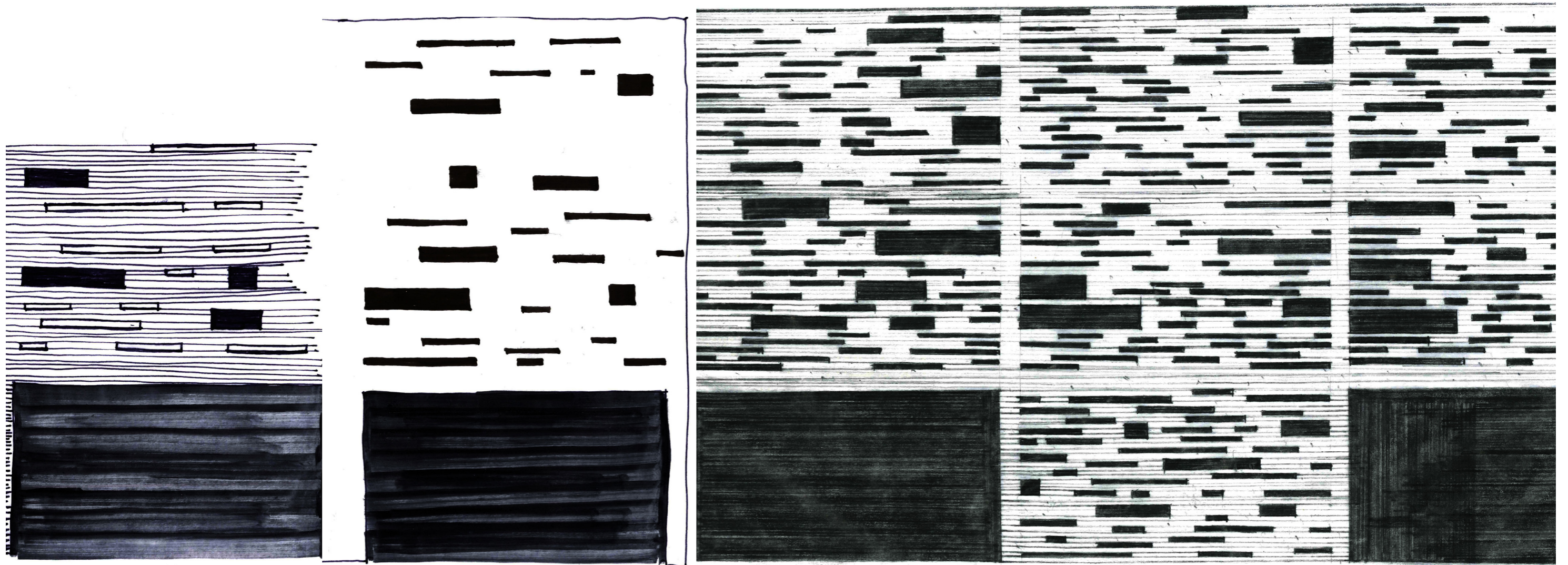


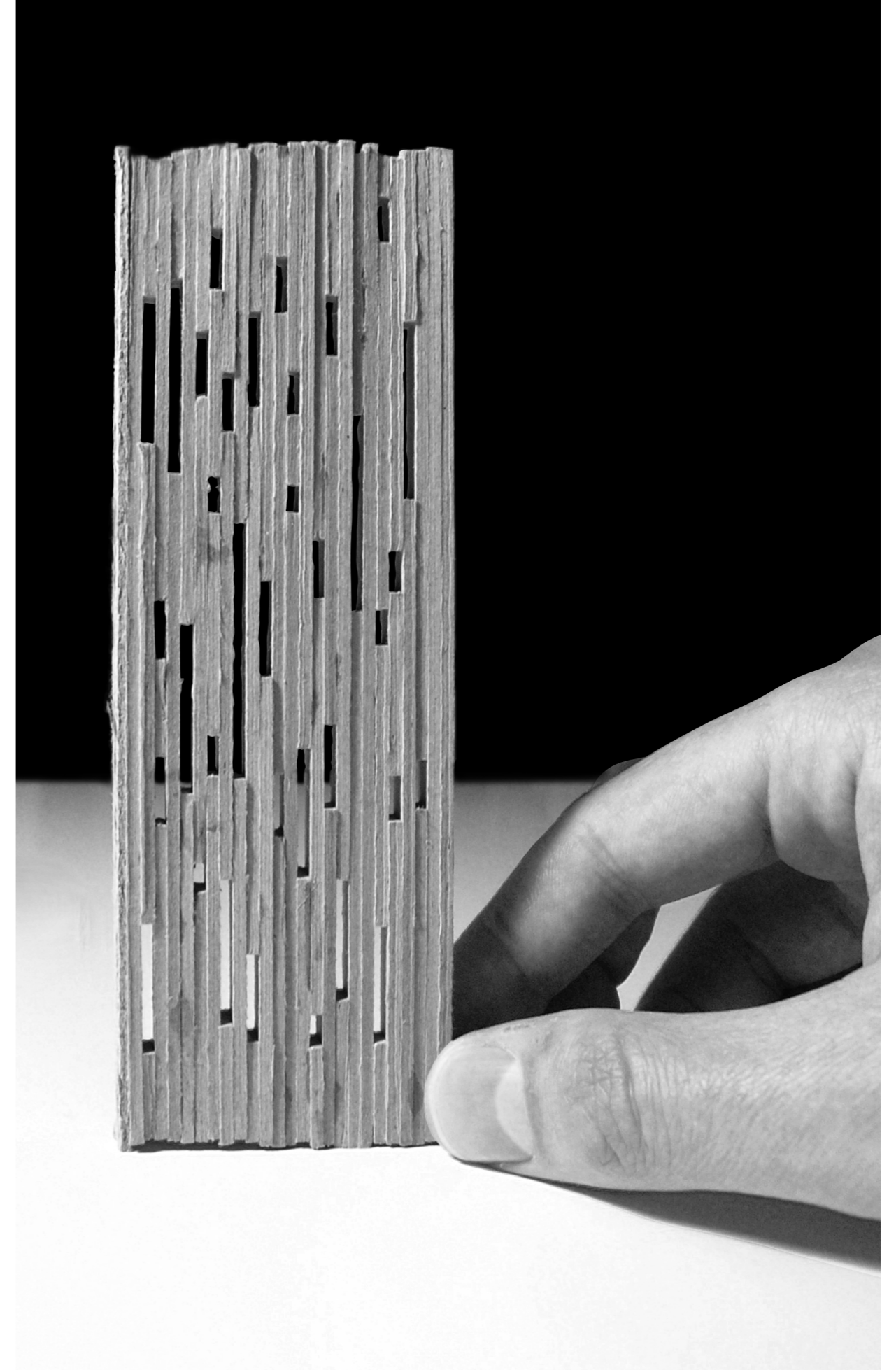
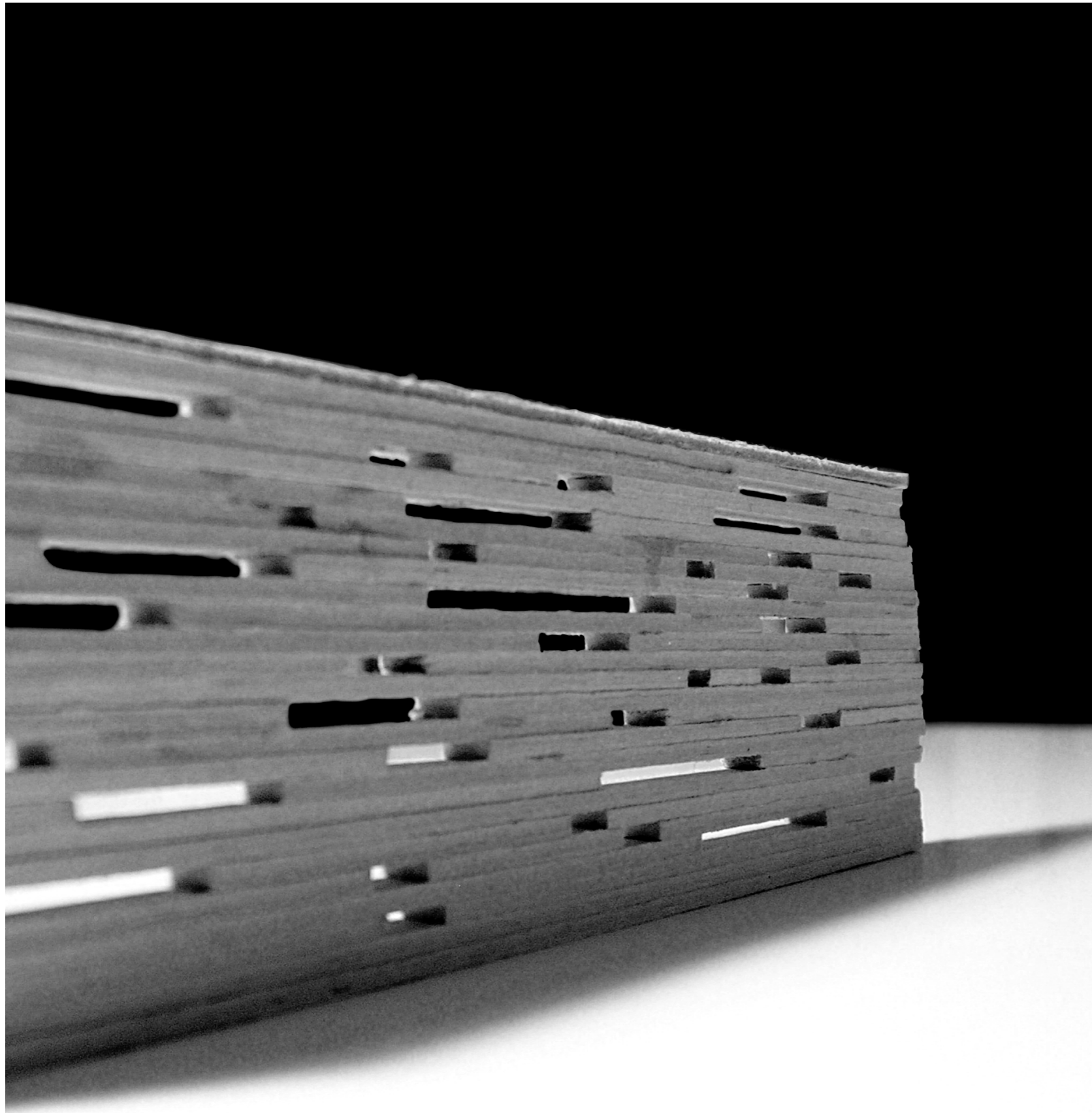
Different color on the walls

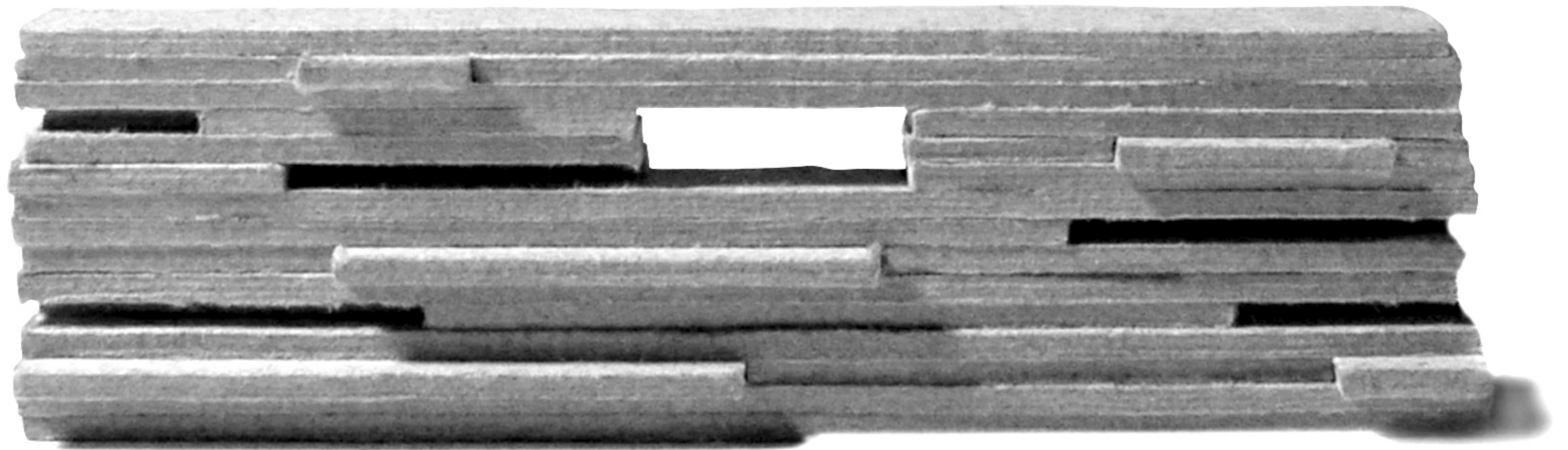


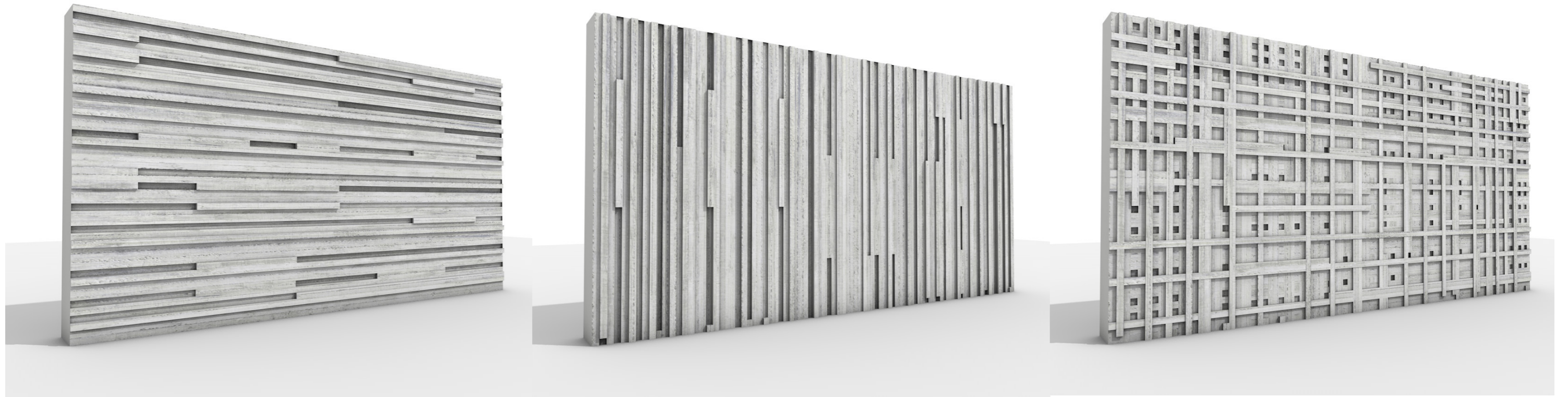


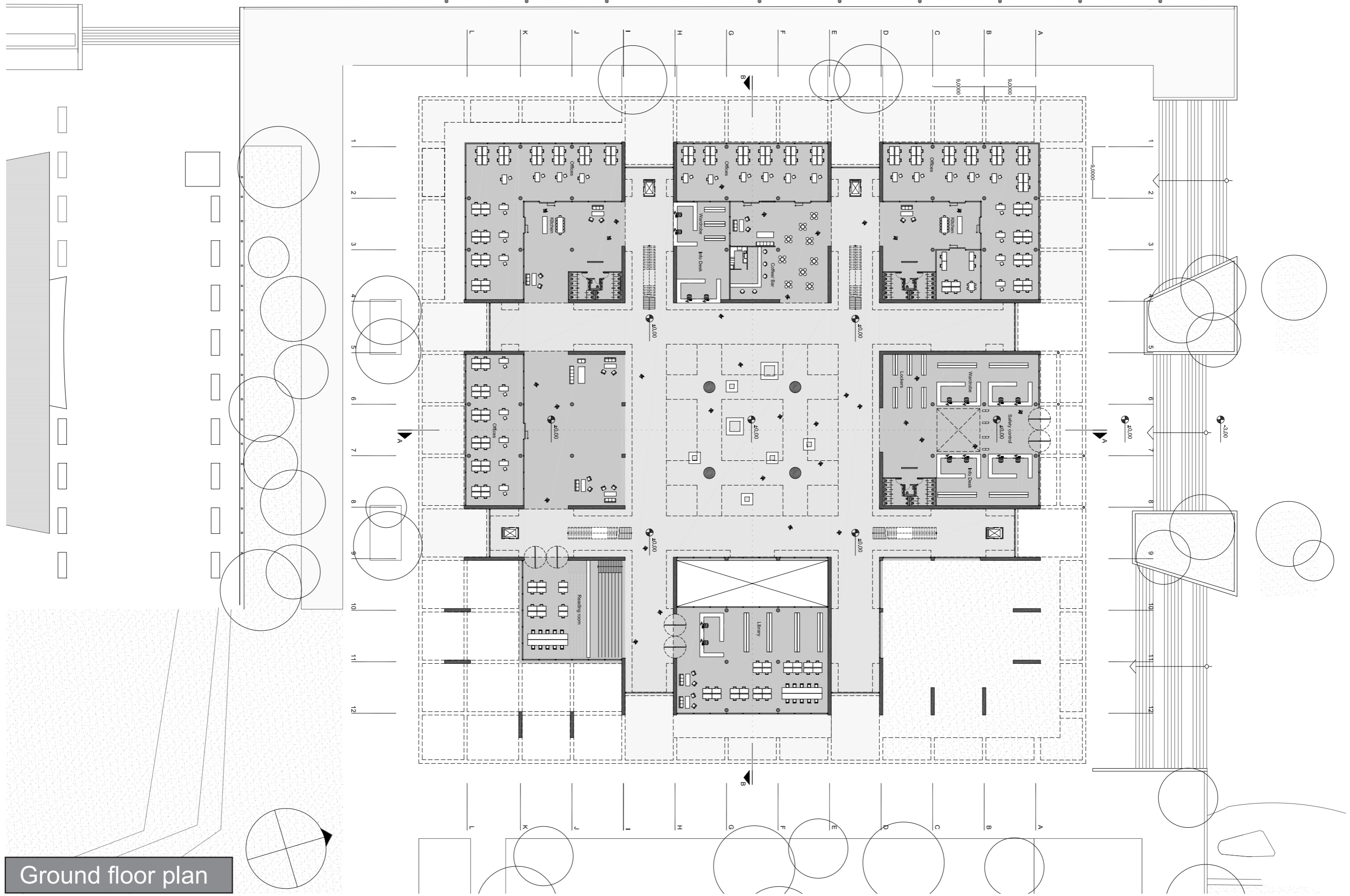
Different texture- same material- hanging circulation axes



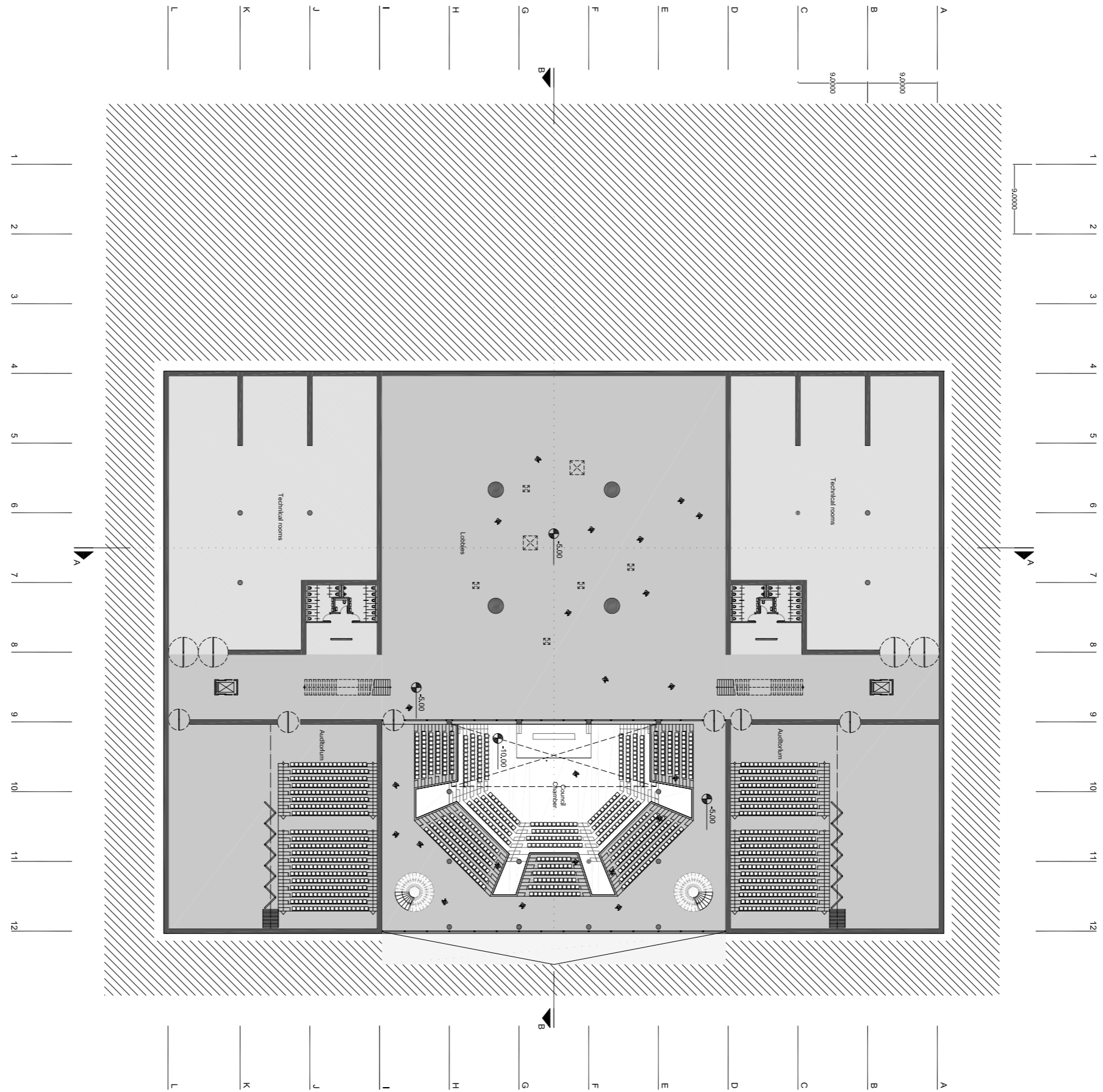






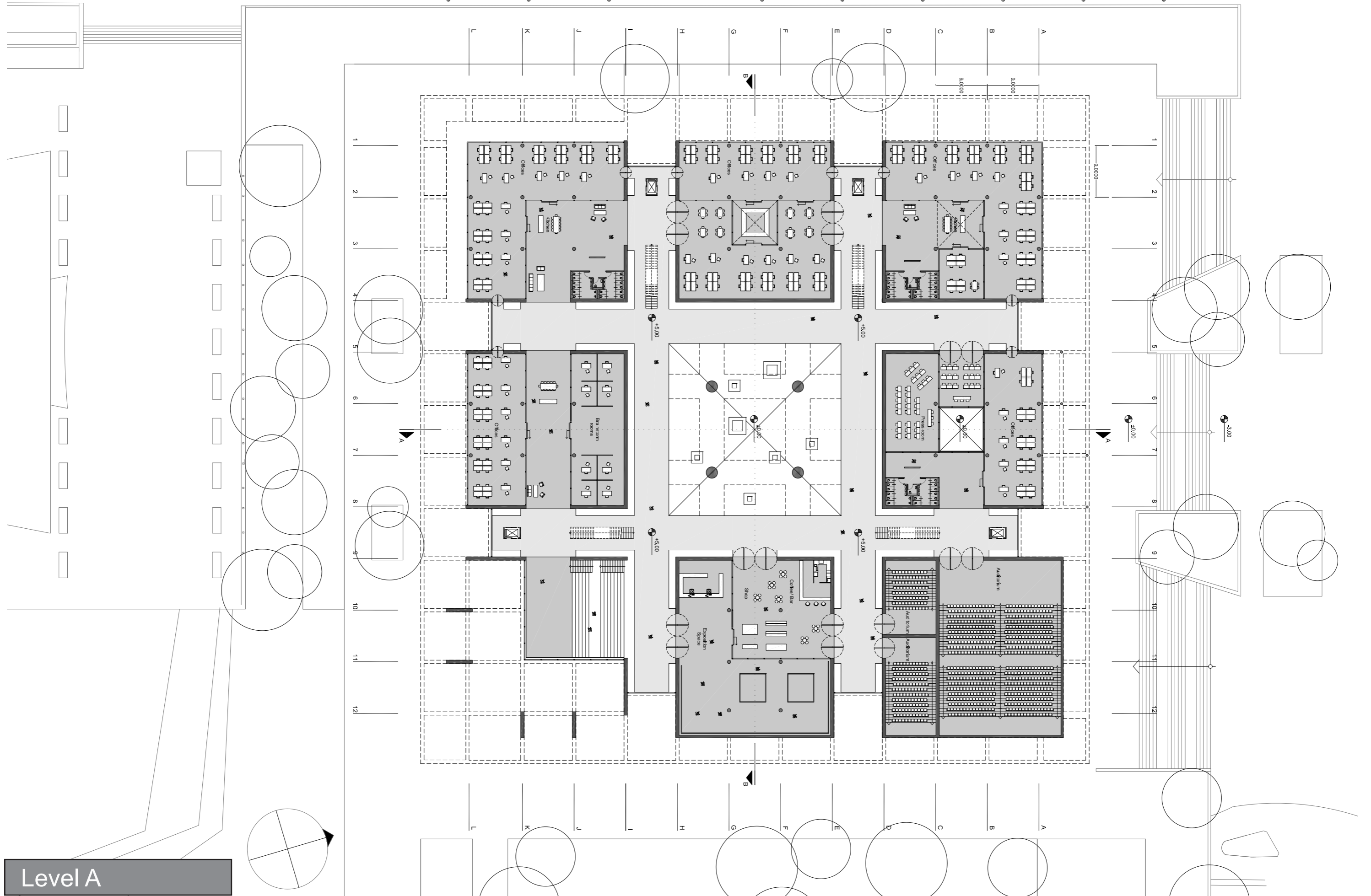


Ground floor plan

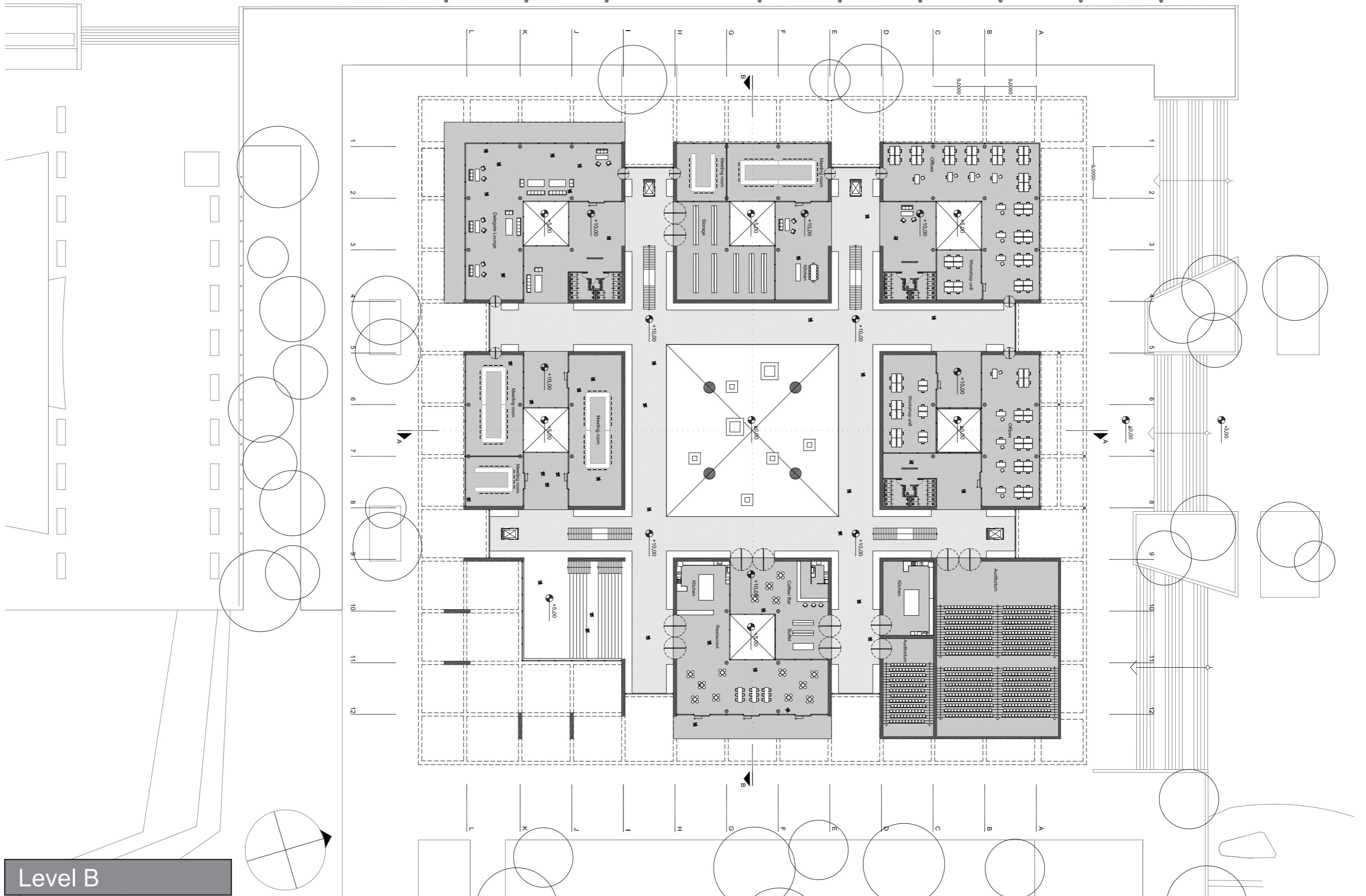


Basement

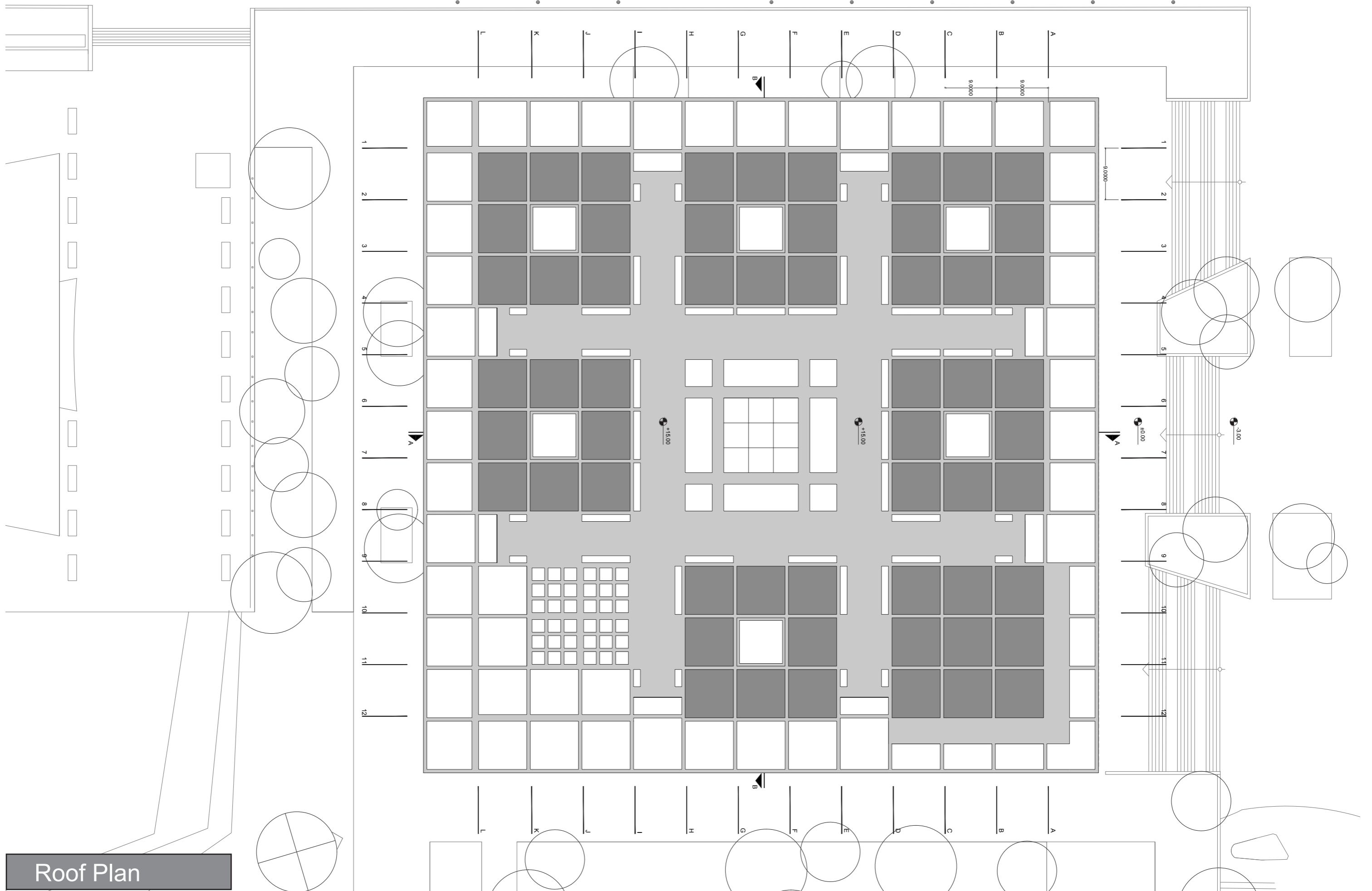




Level A



Level B



Roof Plan



Section A-A



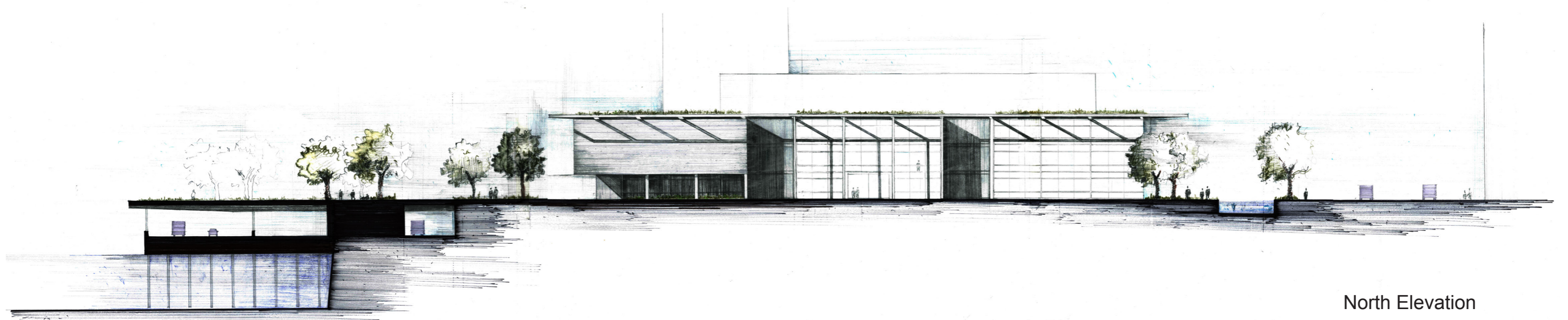




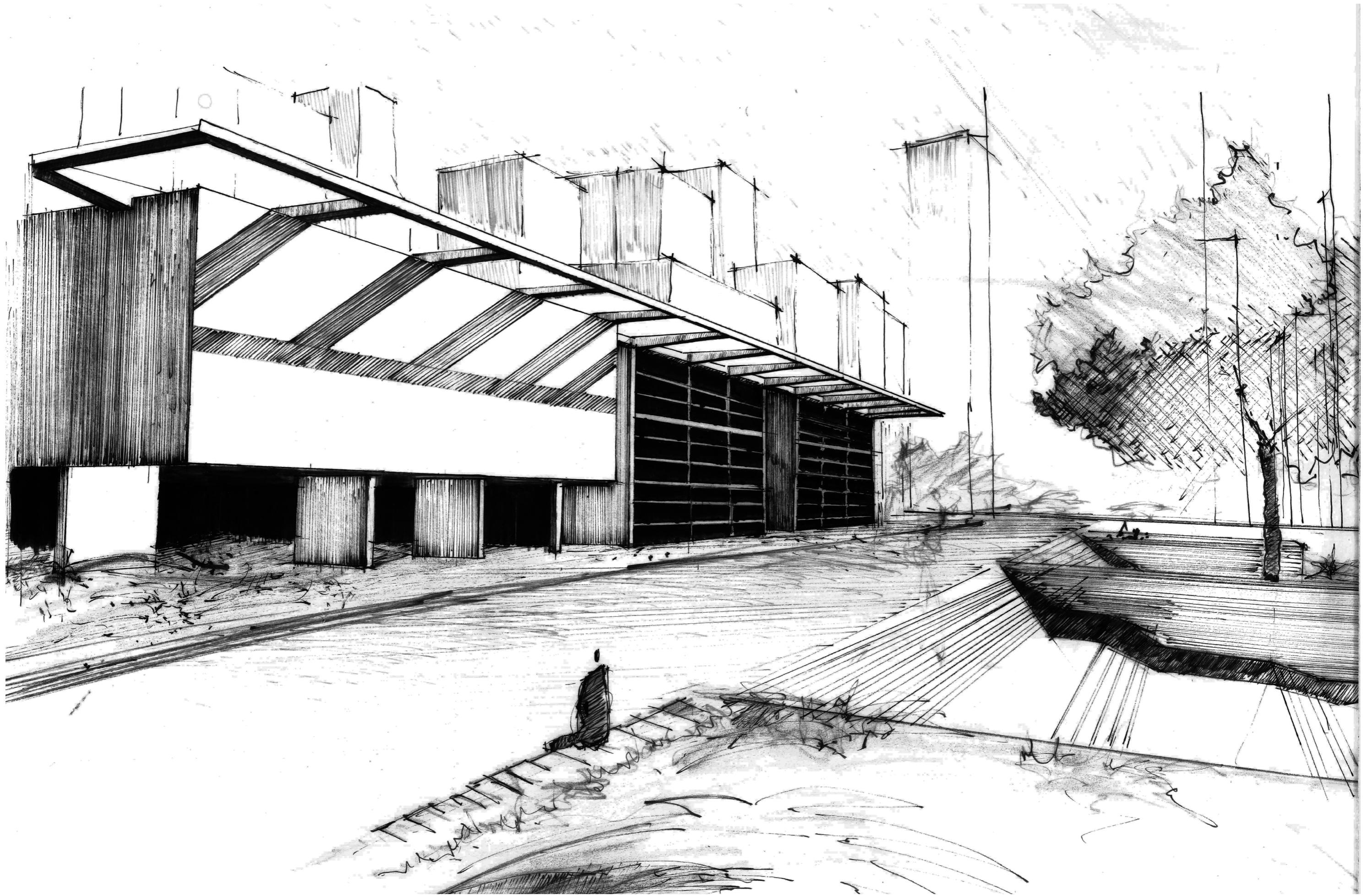
Section B-B

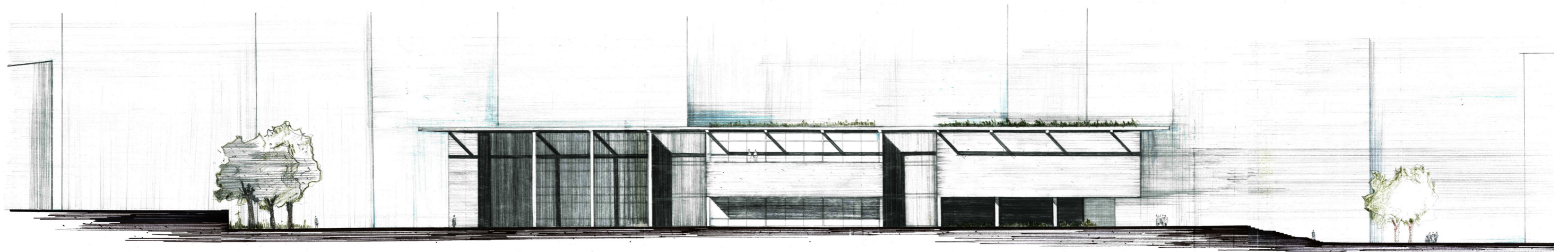




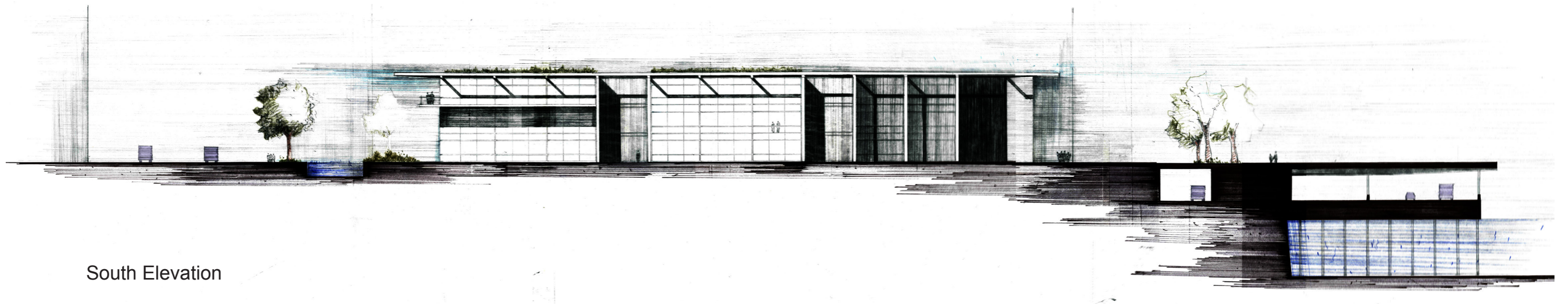


North Elevation



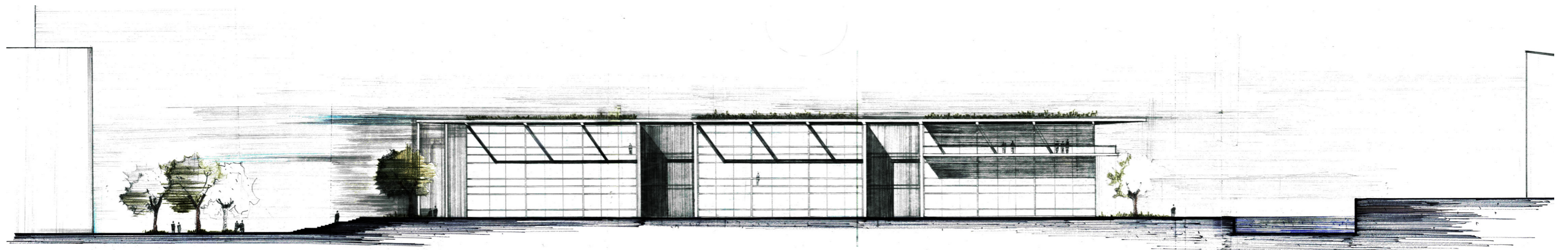


East Elevation

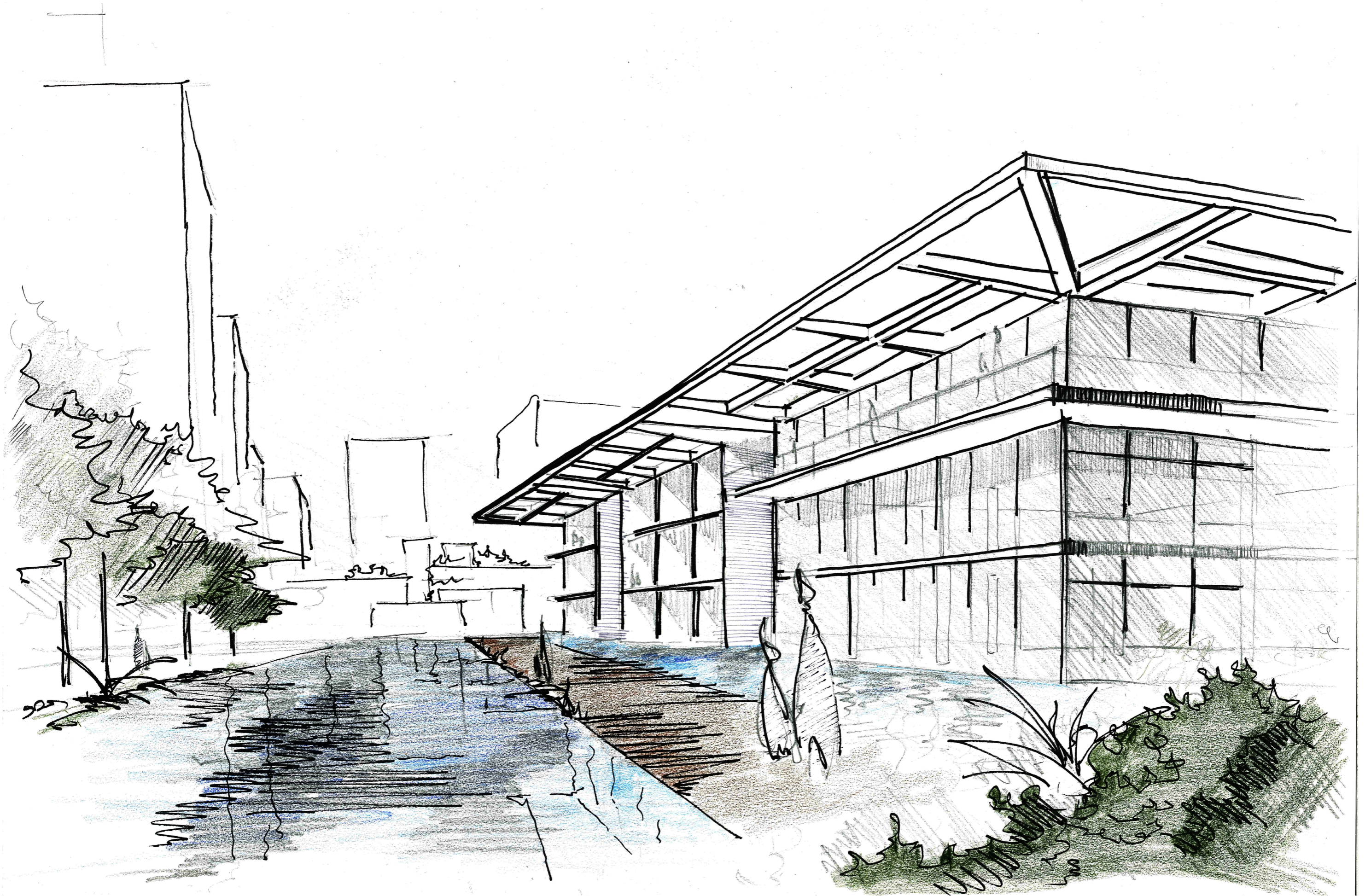


South Elevation

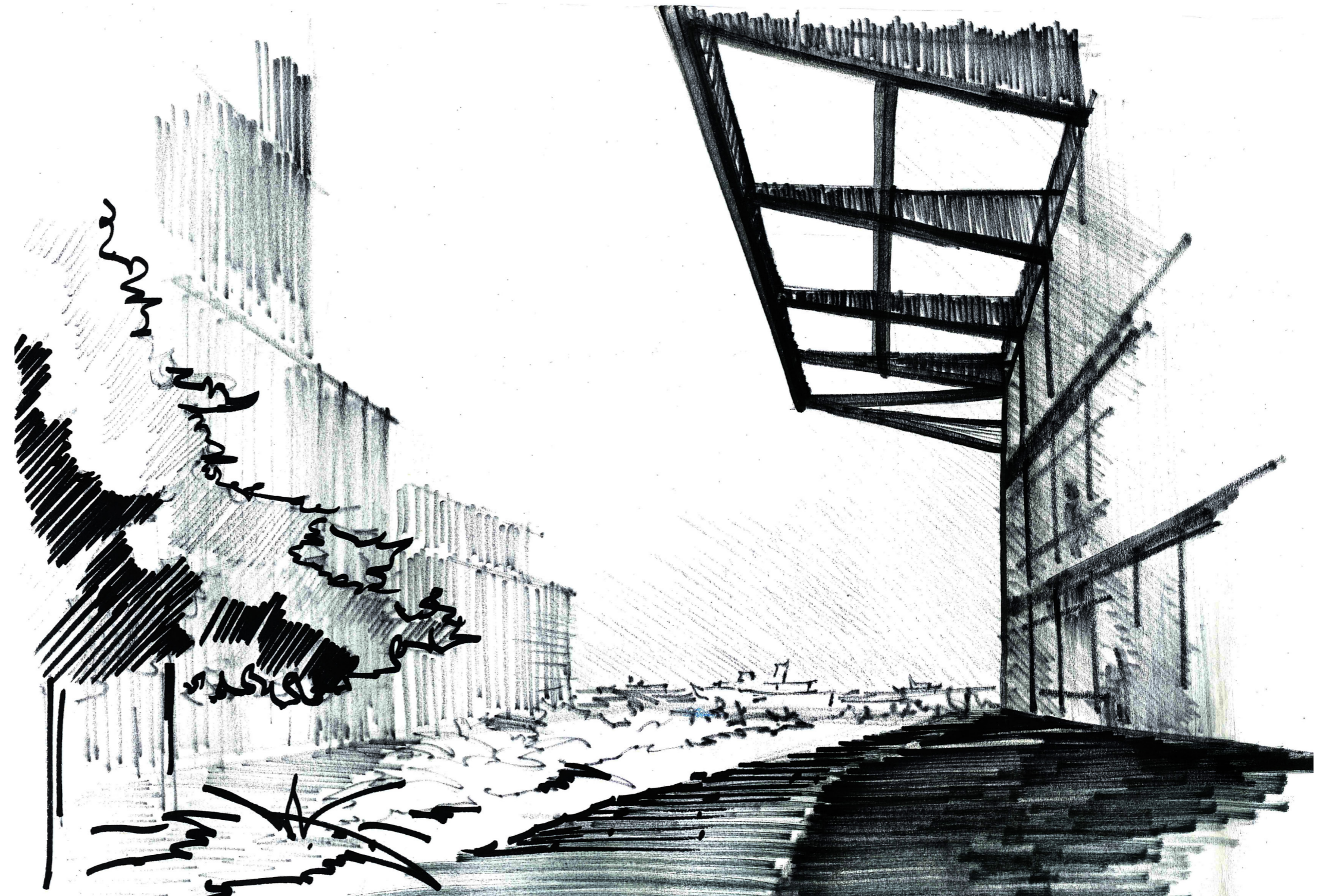




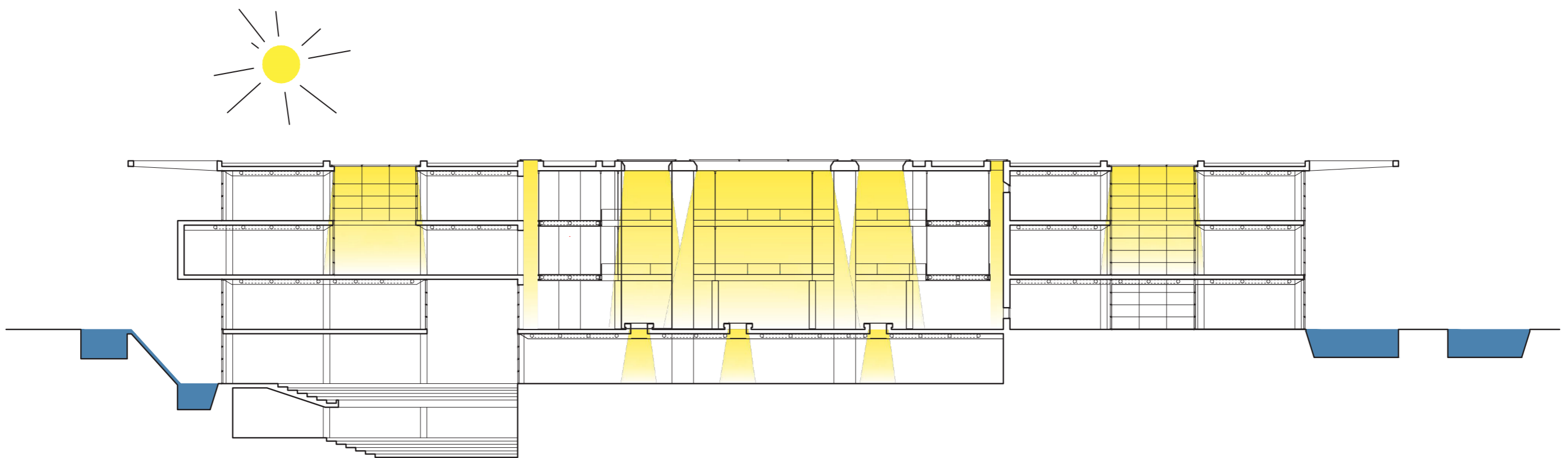
West Elevation



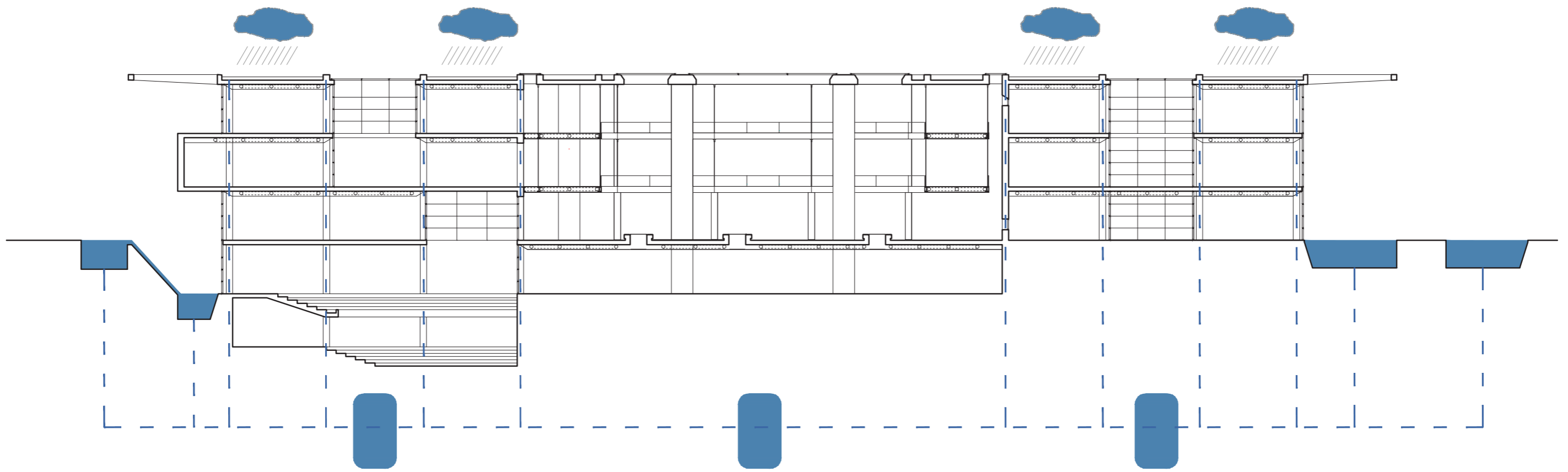
4. Sustainability



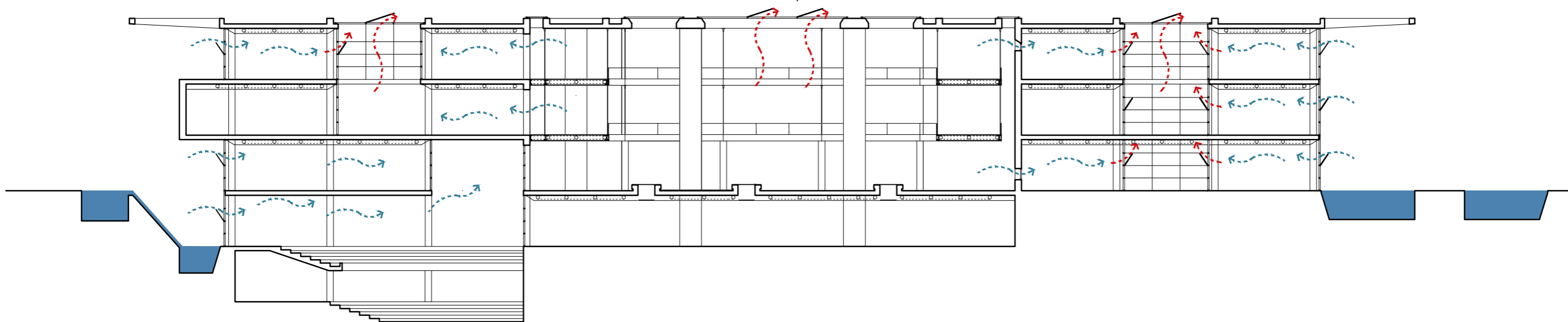
- Design
 - Light
- Materialization
 - Ventilation
 - Heating
 - Cooling



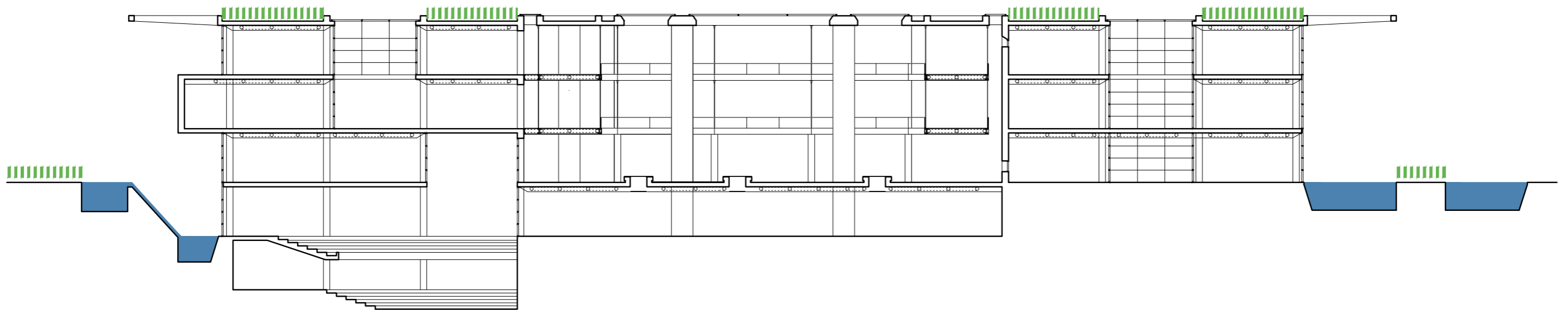
Toplighting



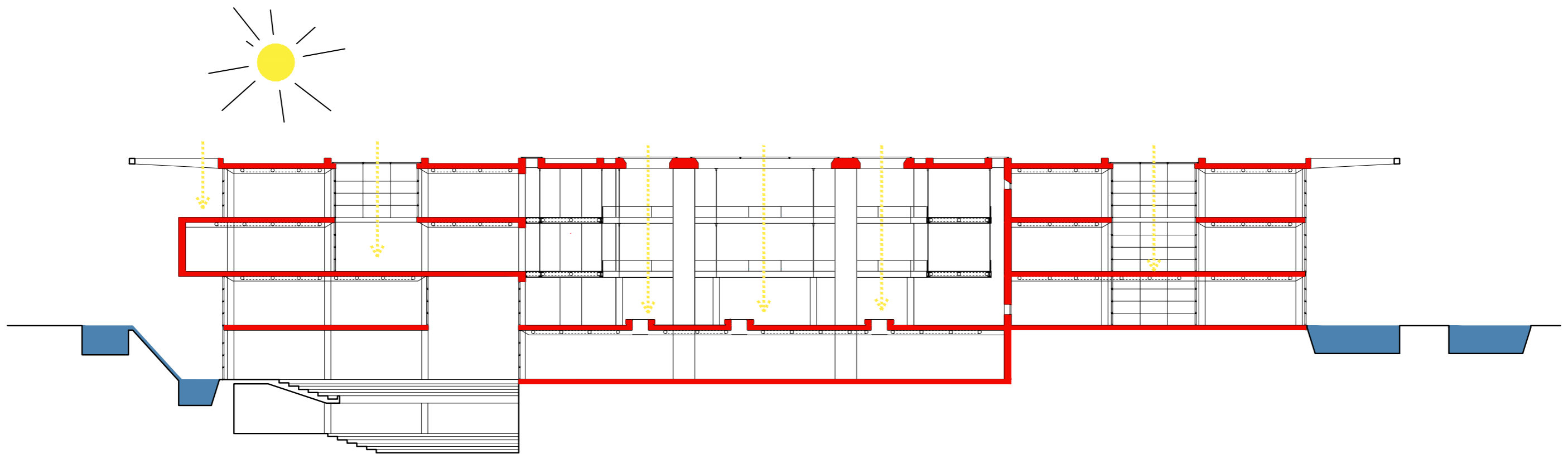
Water Collection



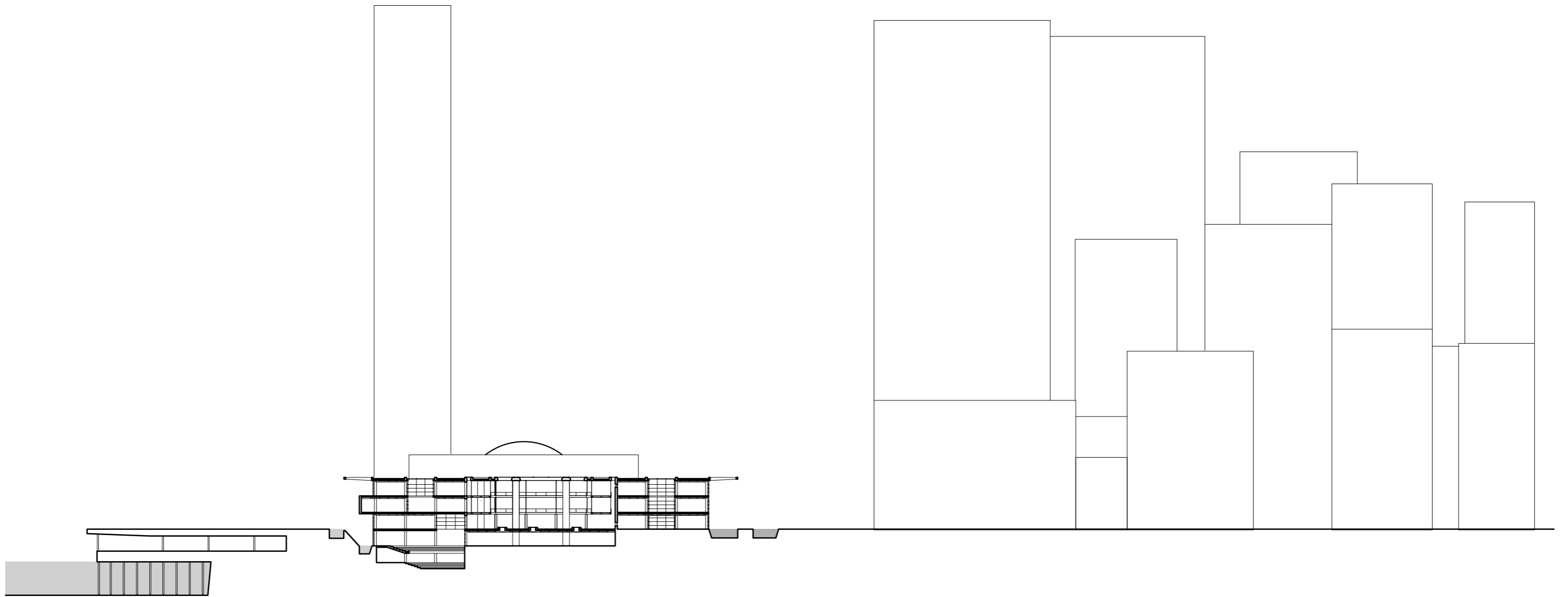
Natural Ventilation



Green Planting



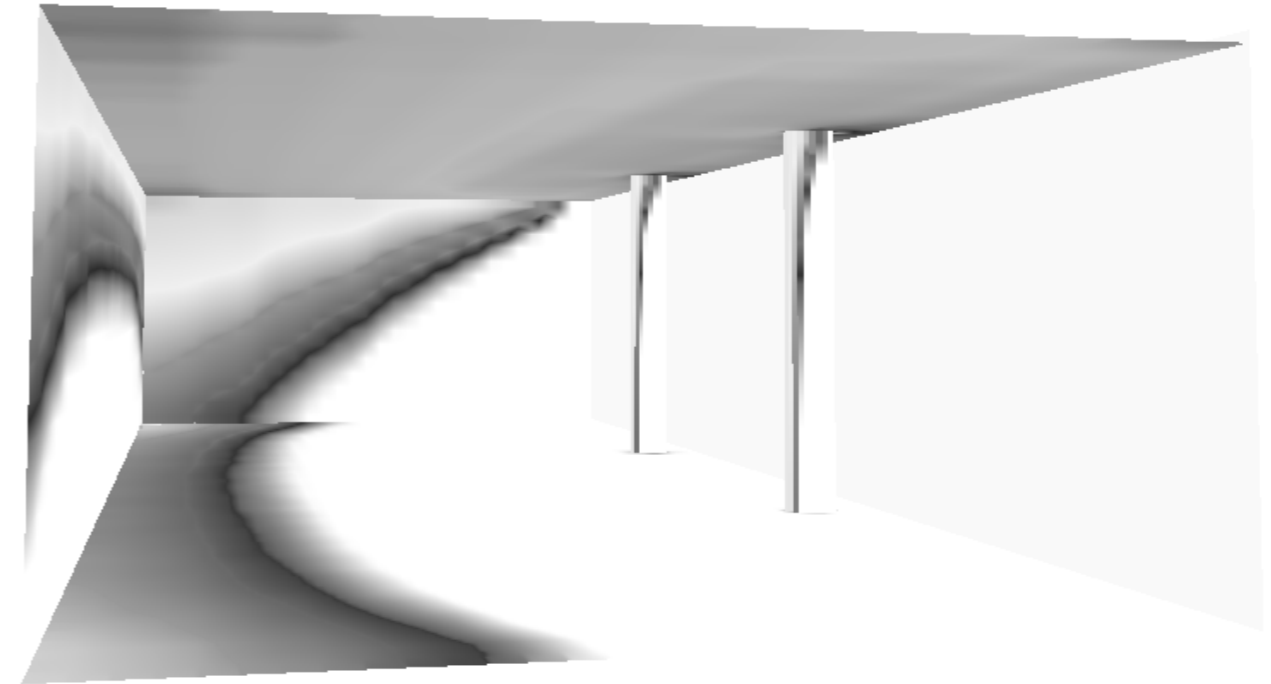
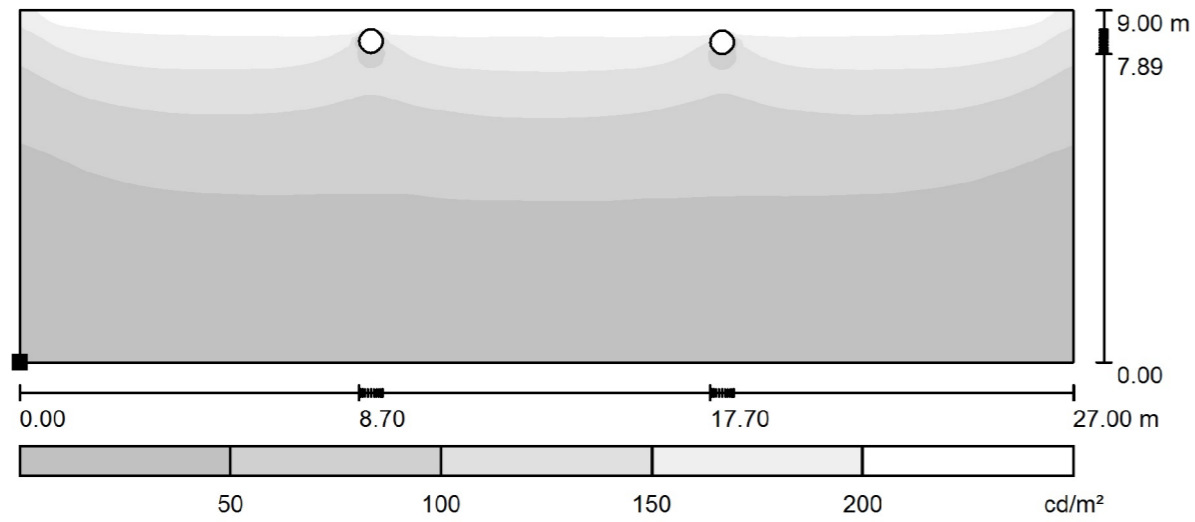
Concrete- thermal mass



Low rice building

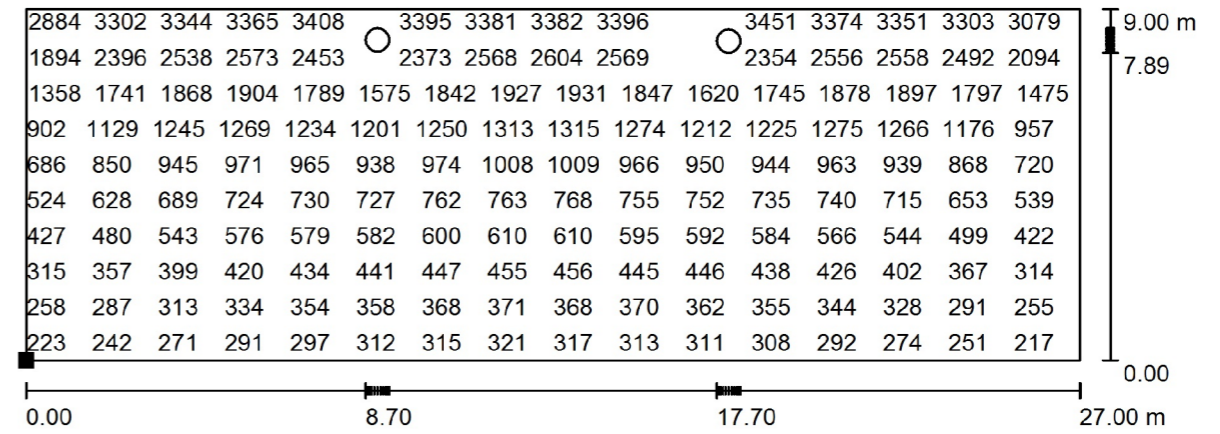
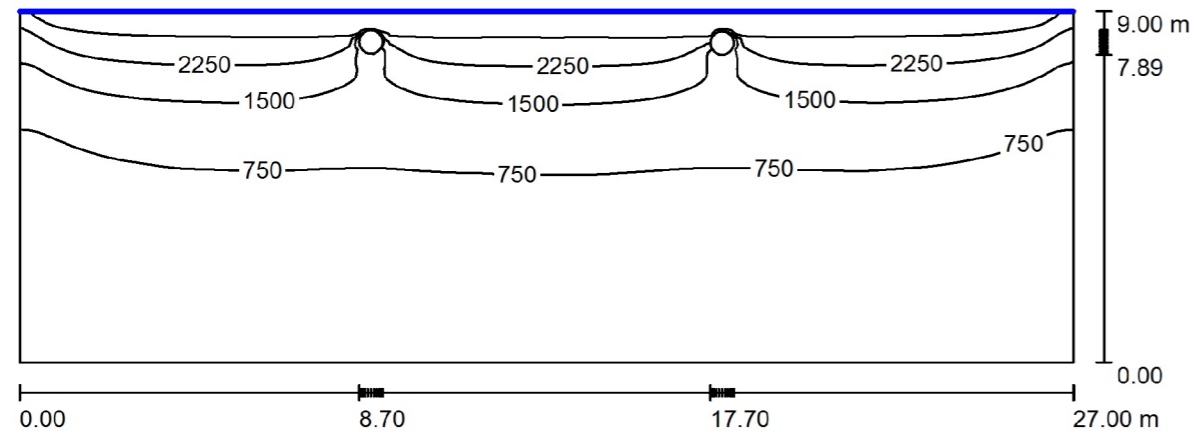
Operator
Telephone
Fax
e-Mail

Room 1 / Light scene 4 / Floor / Greyscale (L)



Grid: 128 x 128 Points

L_{av} [cd/m²] 74 L_{min} [cd/m²] 13 L_{max} [cd/m²] 247



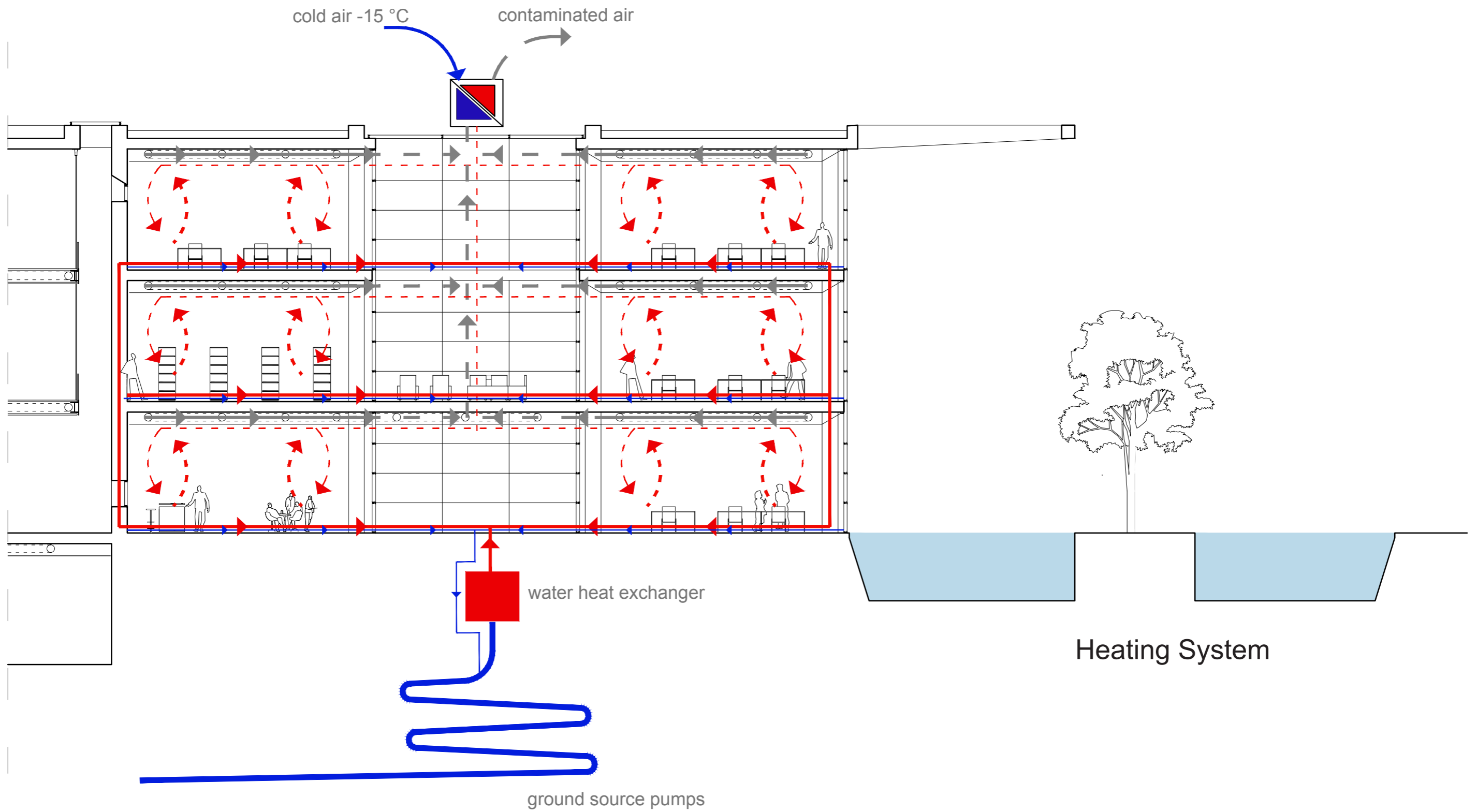
Height of Room: 5.000 m, Maintenance factor: 0.80

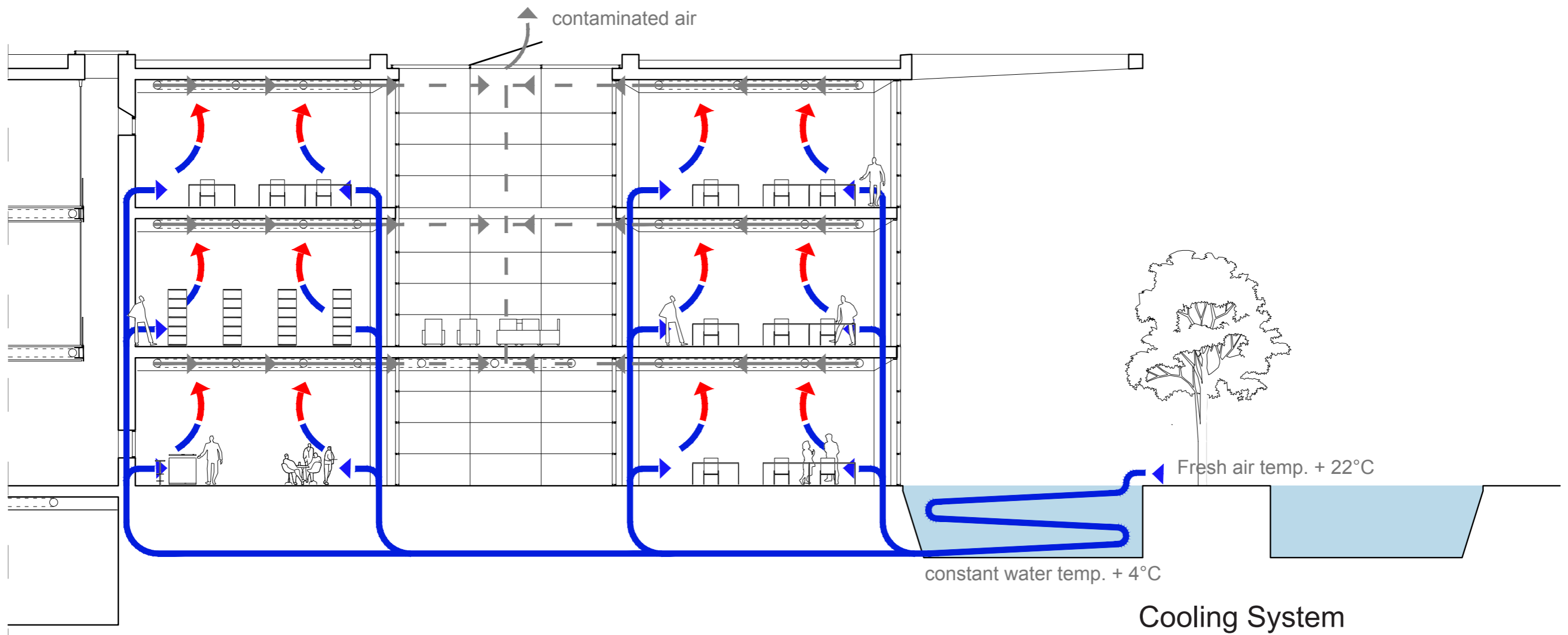
Values in Lux, Scale 1:194

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	1011	148	3700	0.146
Floor	20	1169	203	3884	0.173
Walls (4)	11	397	77	1747	/

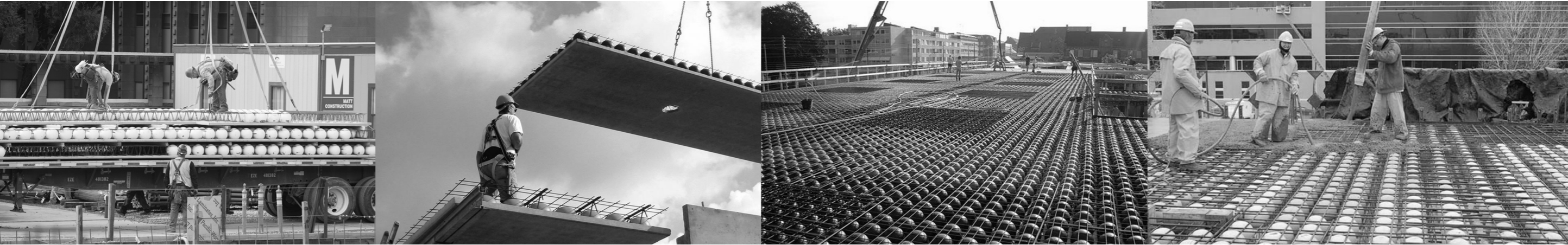
Grid: 128 x 128 Points

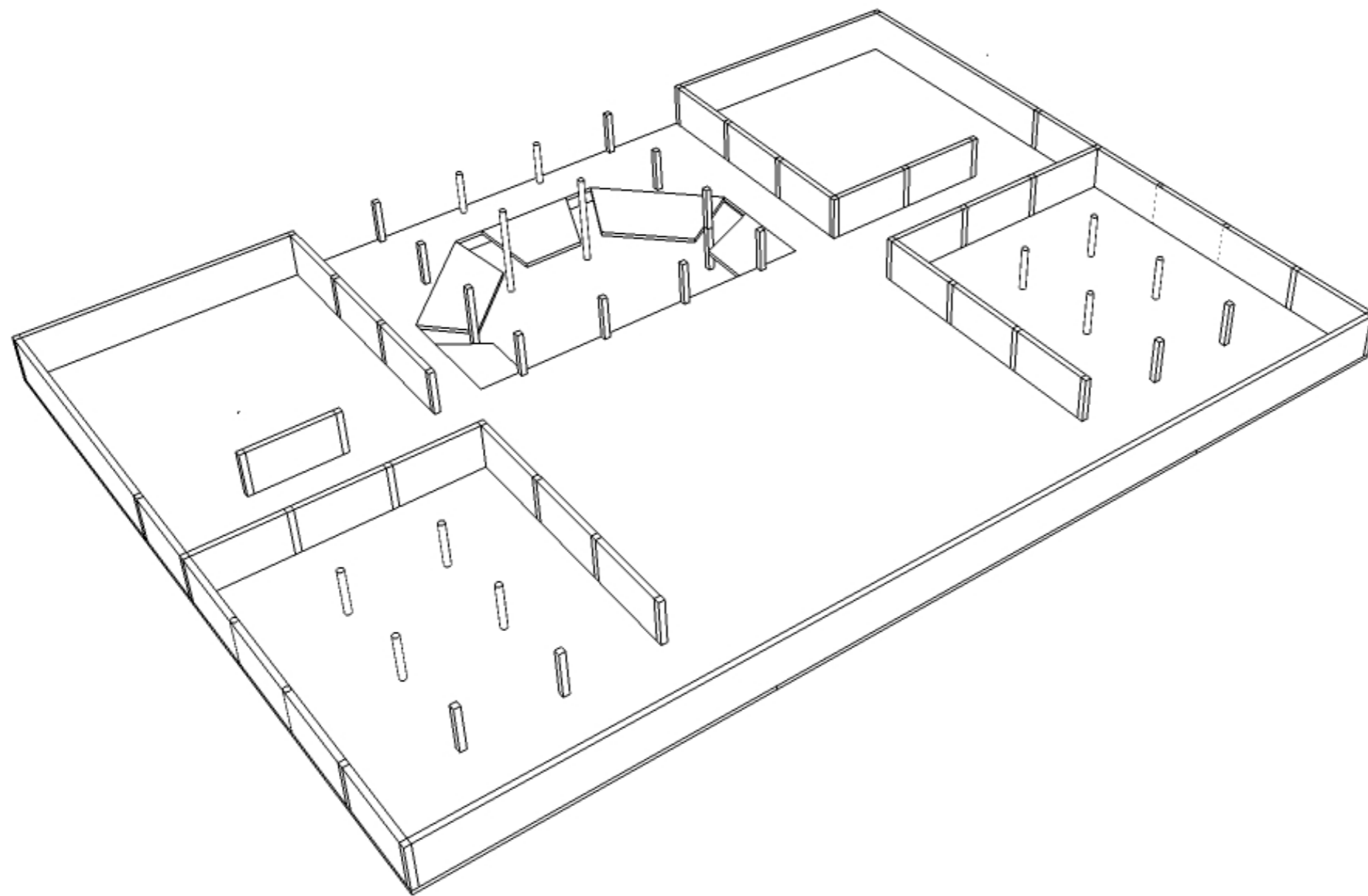
E_{av} [lx] 1169 E_{min} [lx] 203 E_{max} [lx] 3884 u0 0.173 E_{min} / E_{max} 0.052

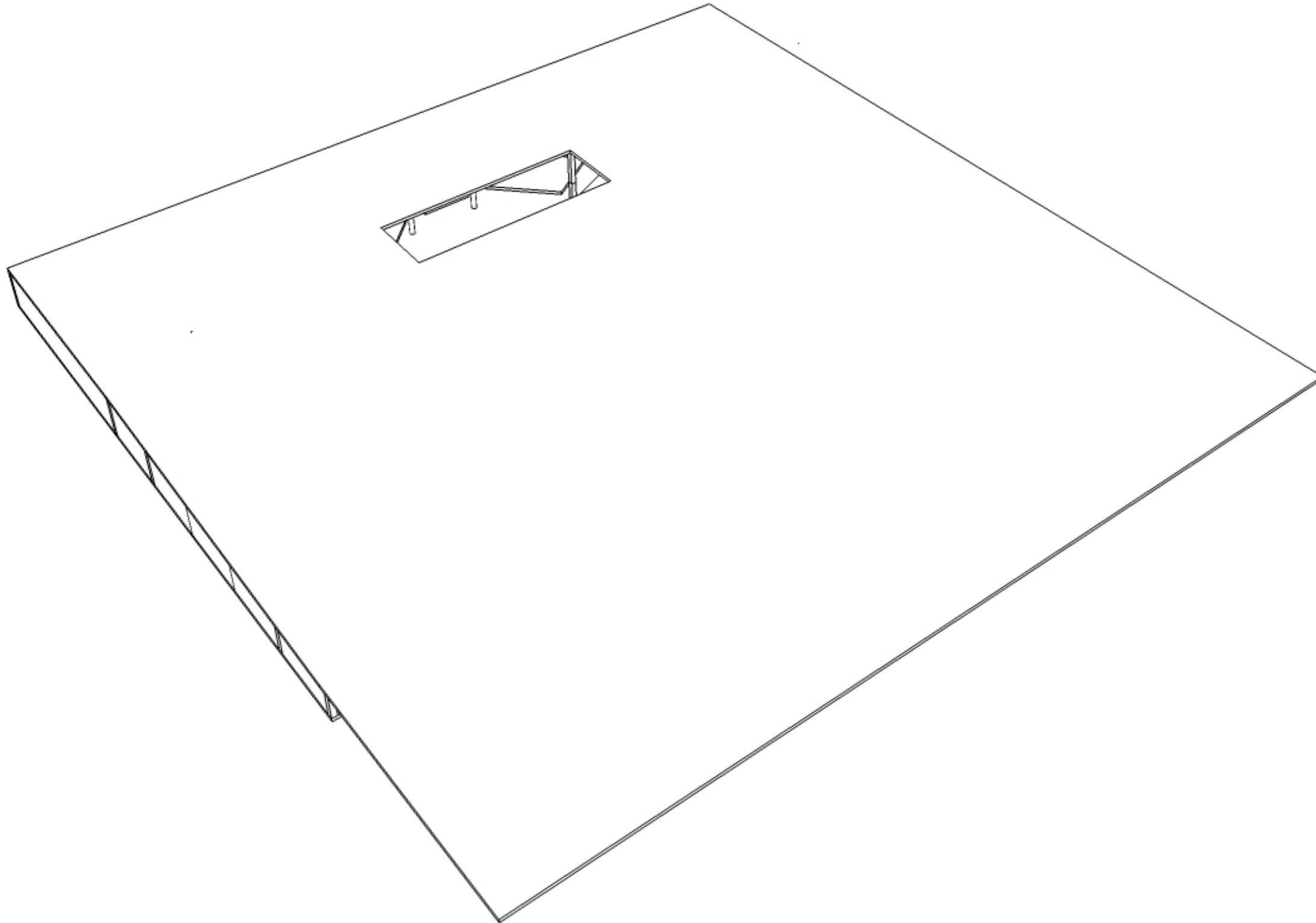


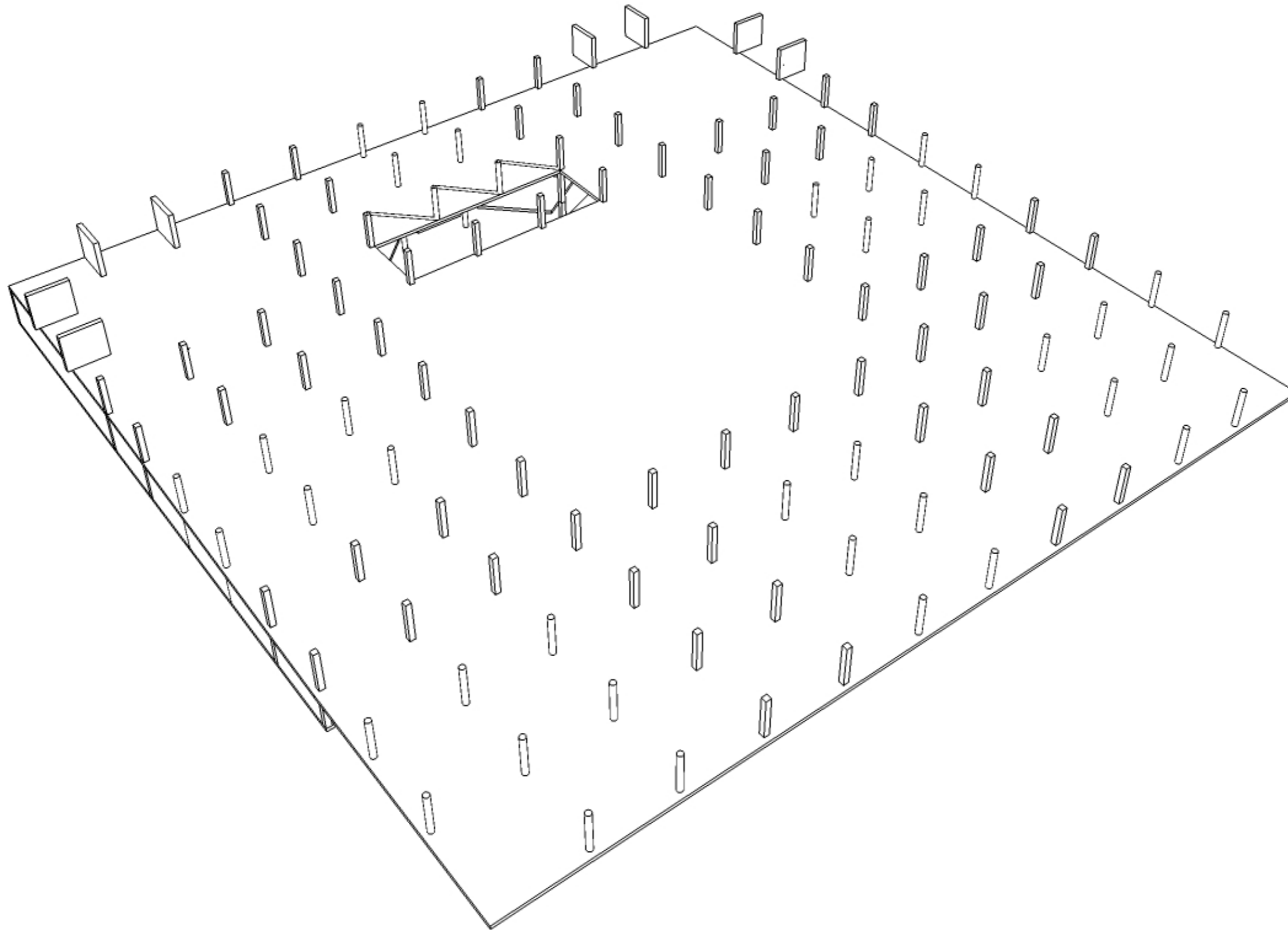


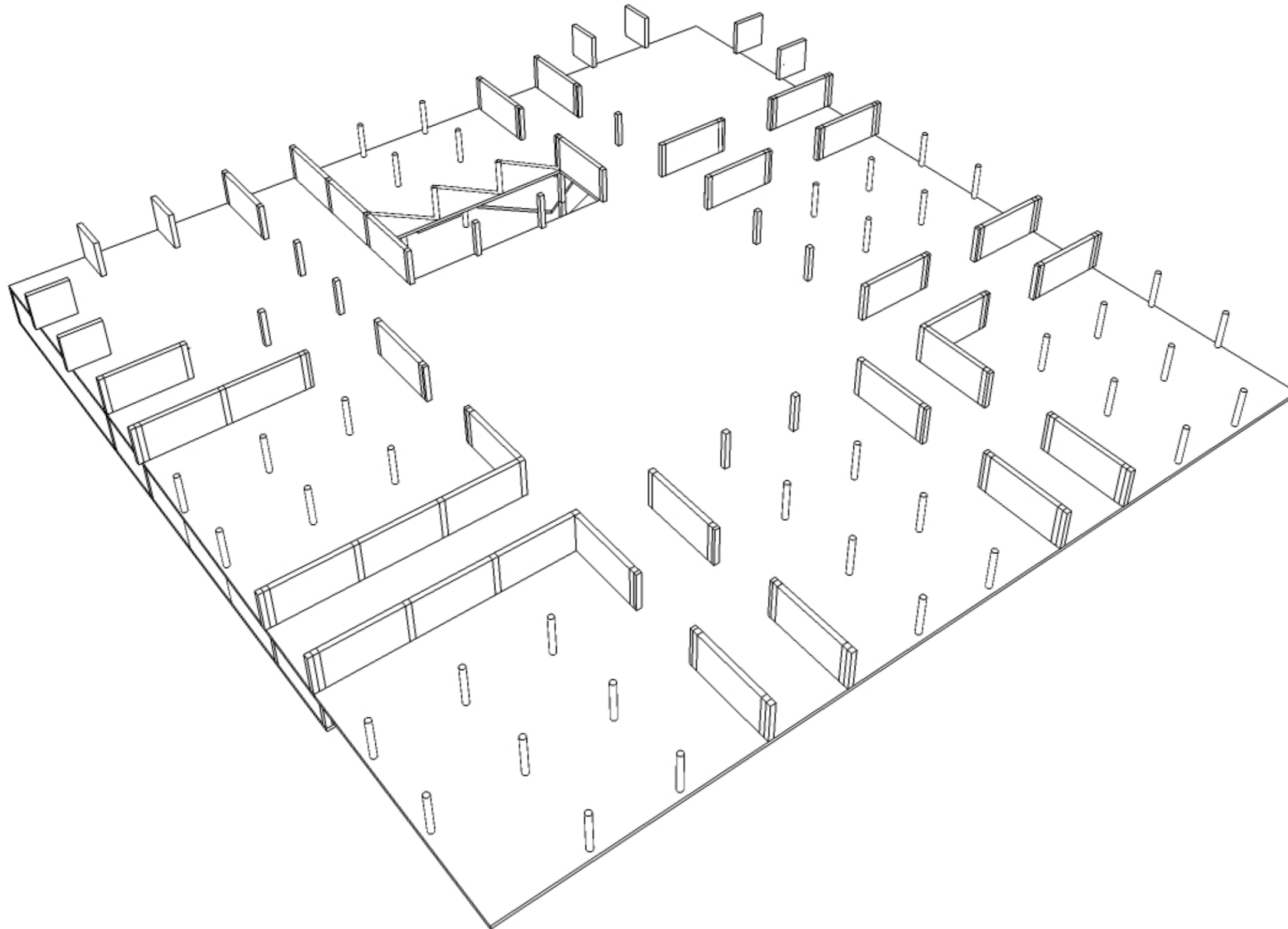
5. Building technology

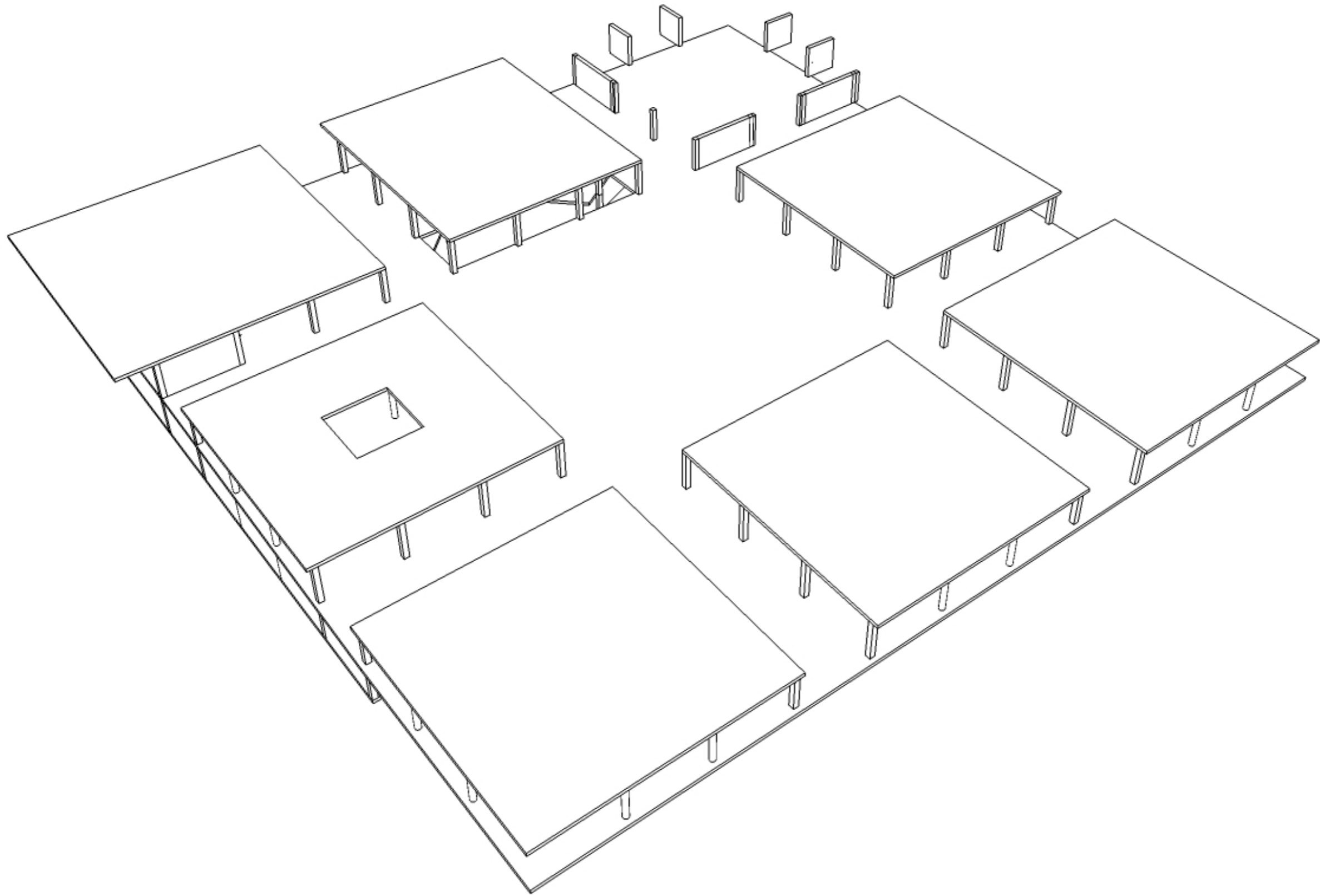


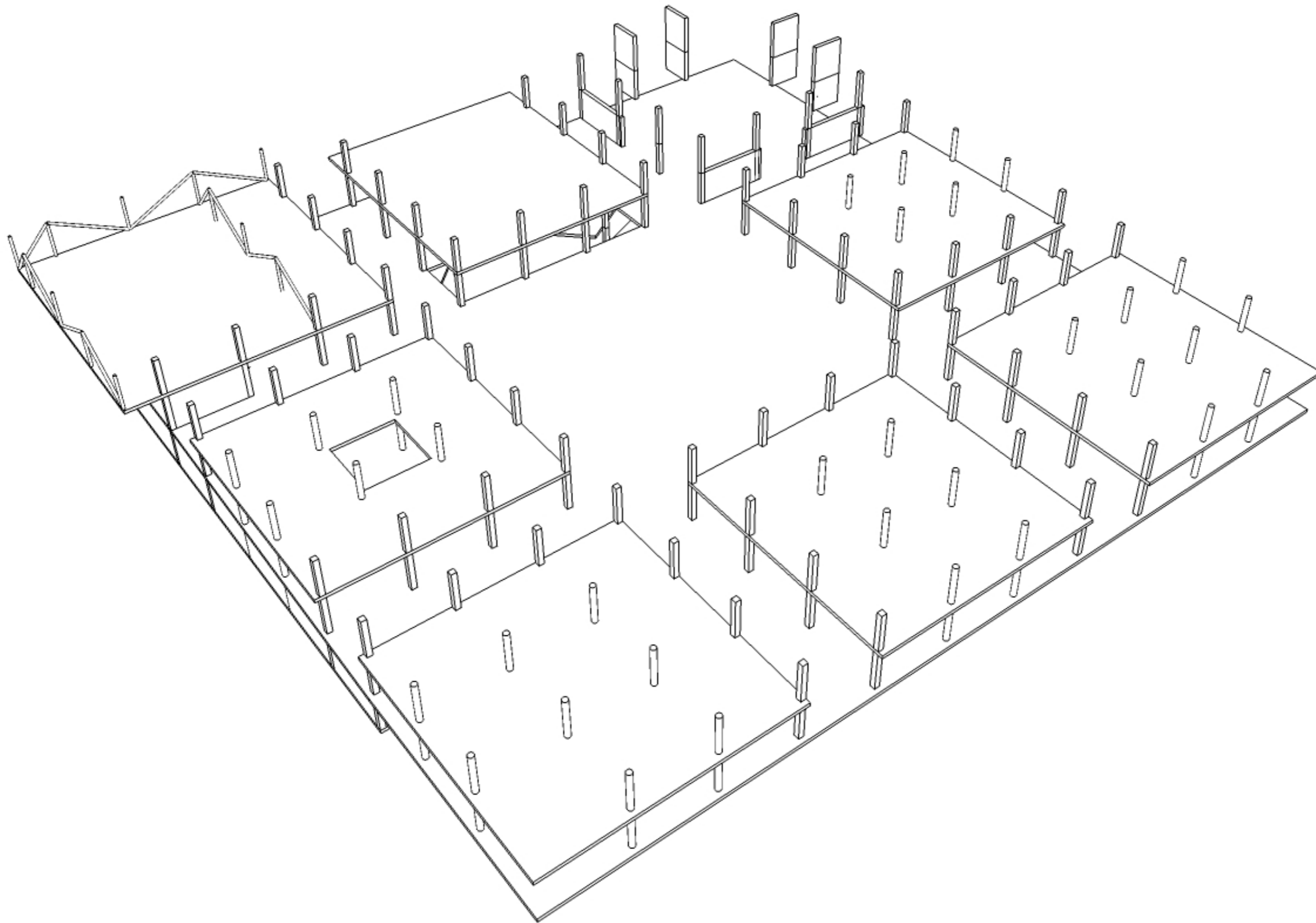


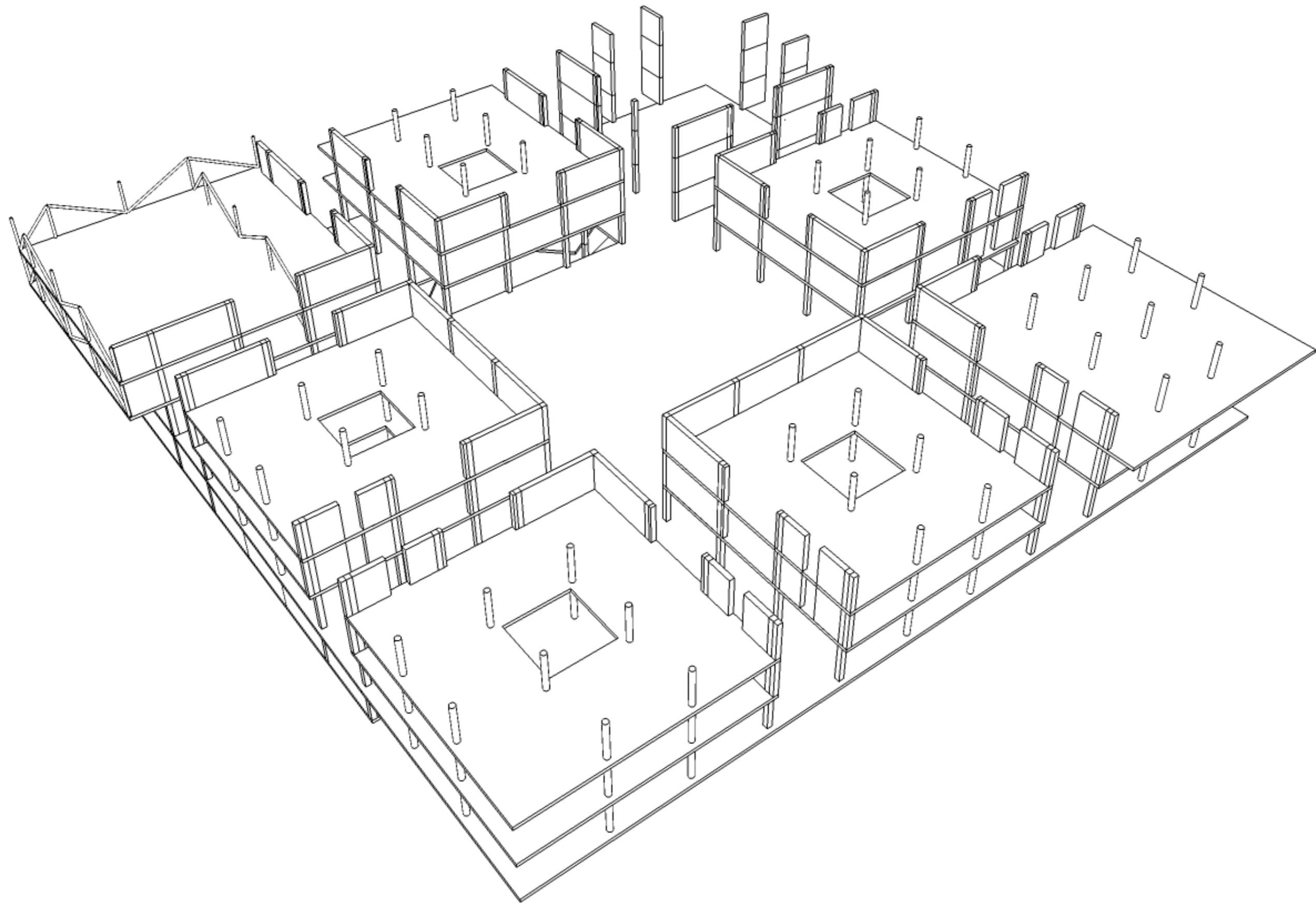


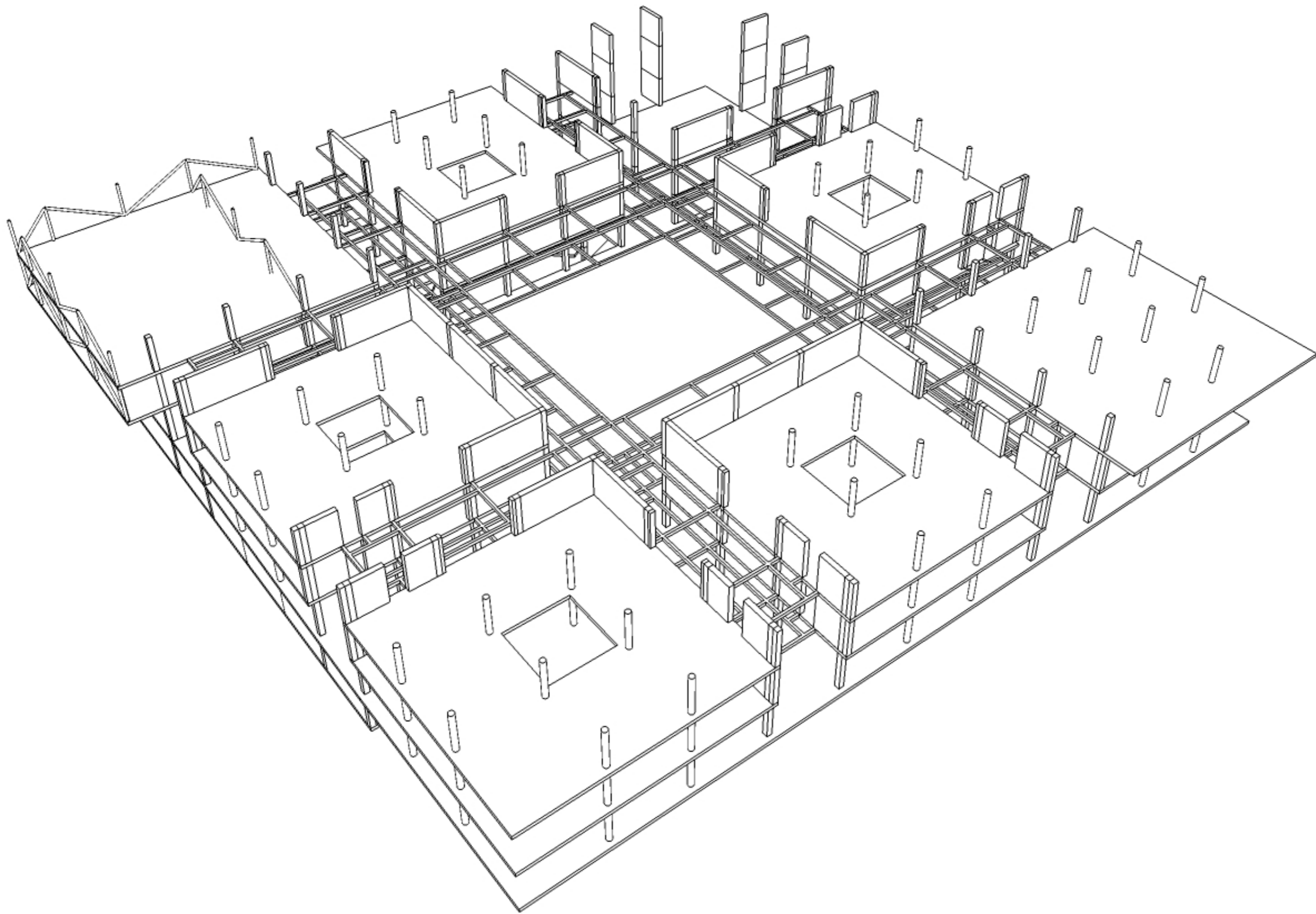


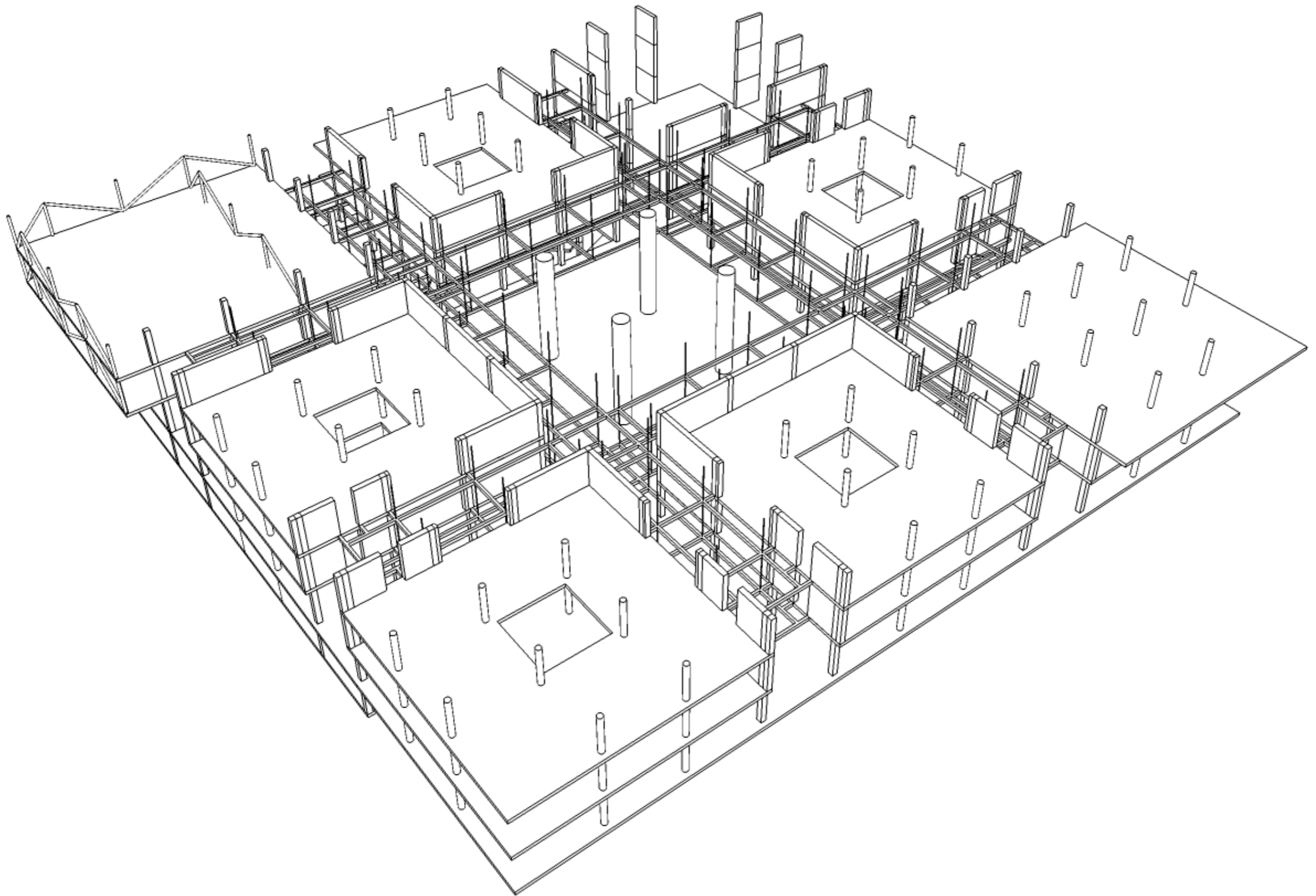


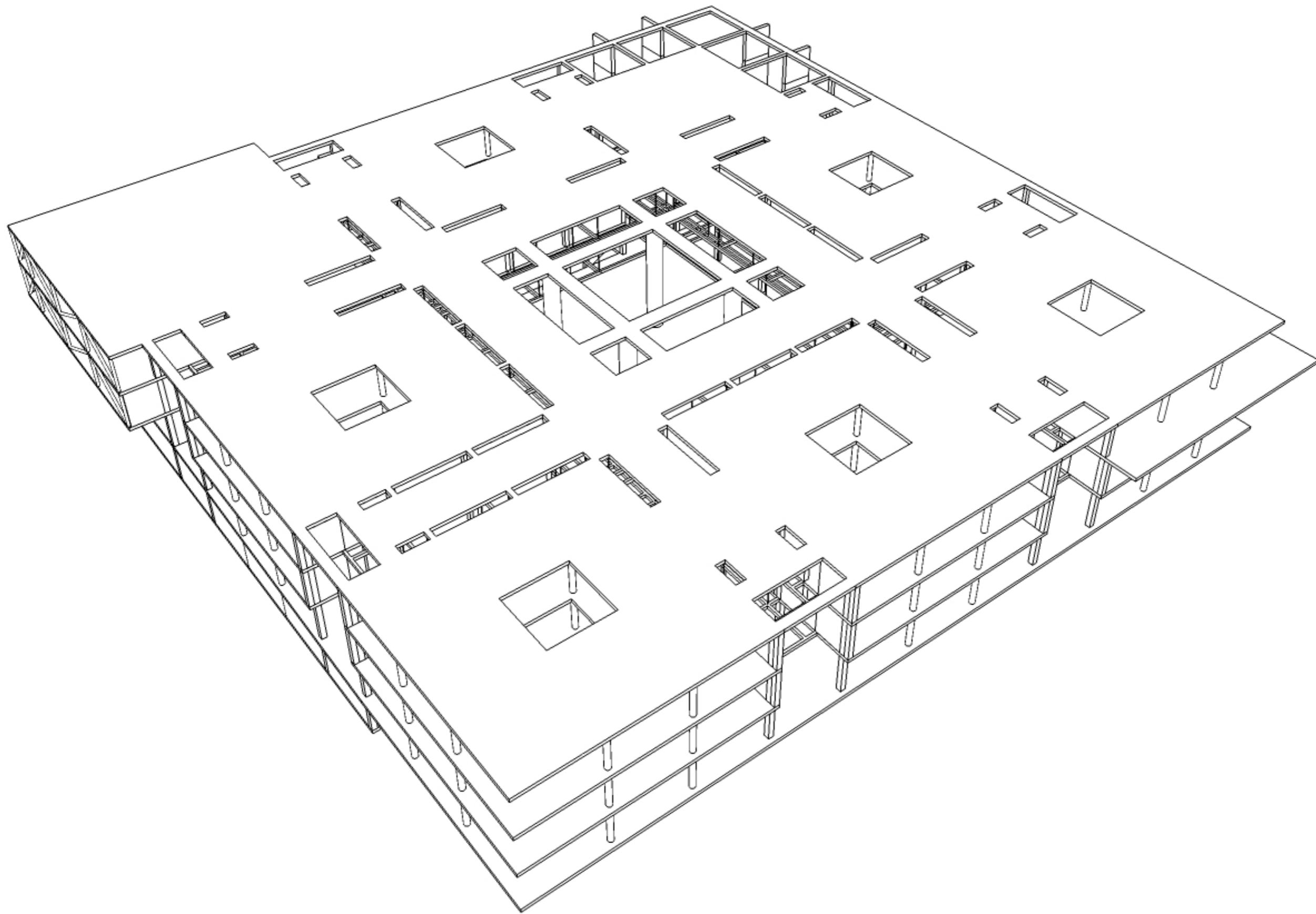


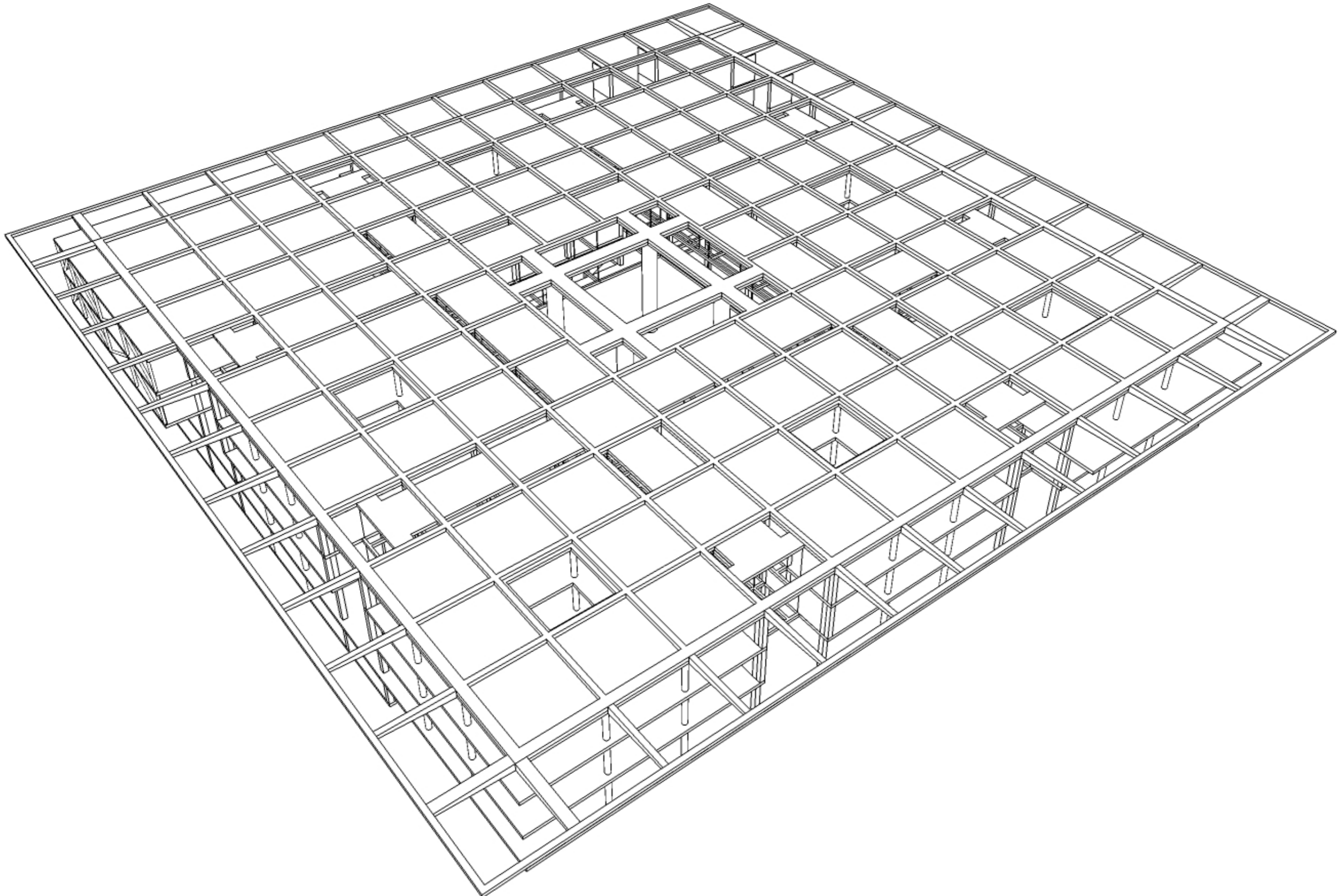


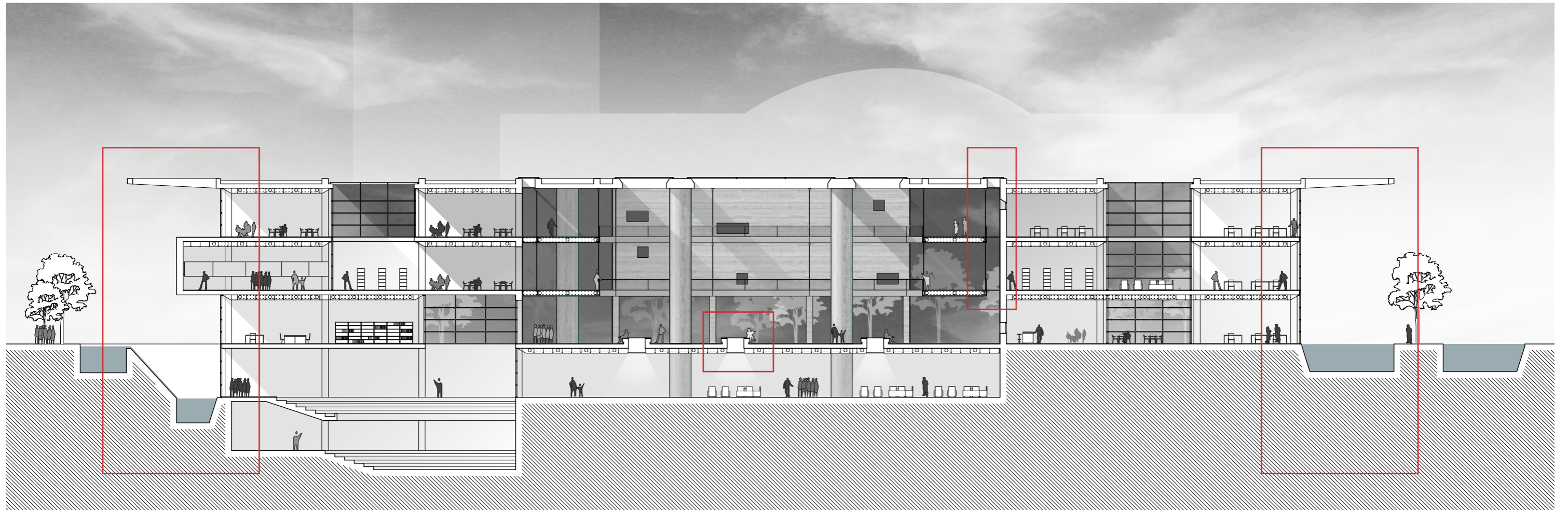




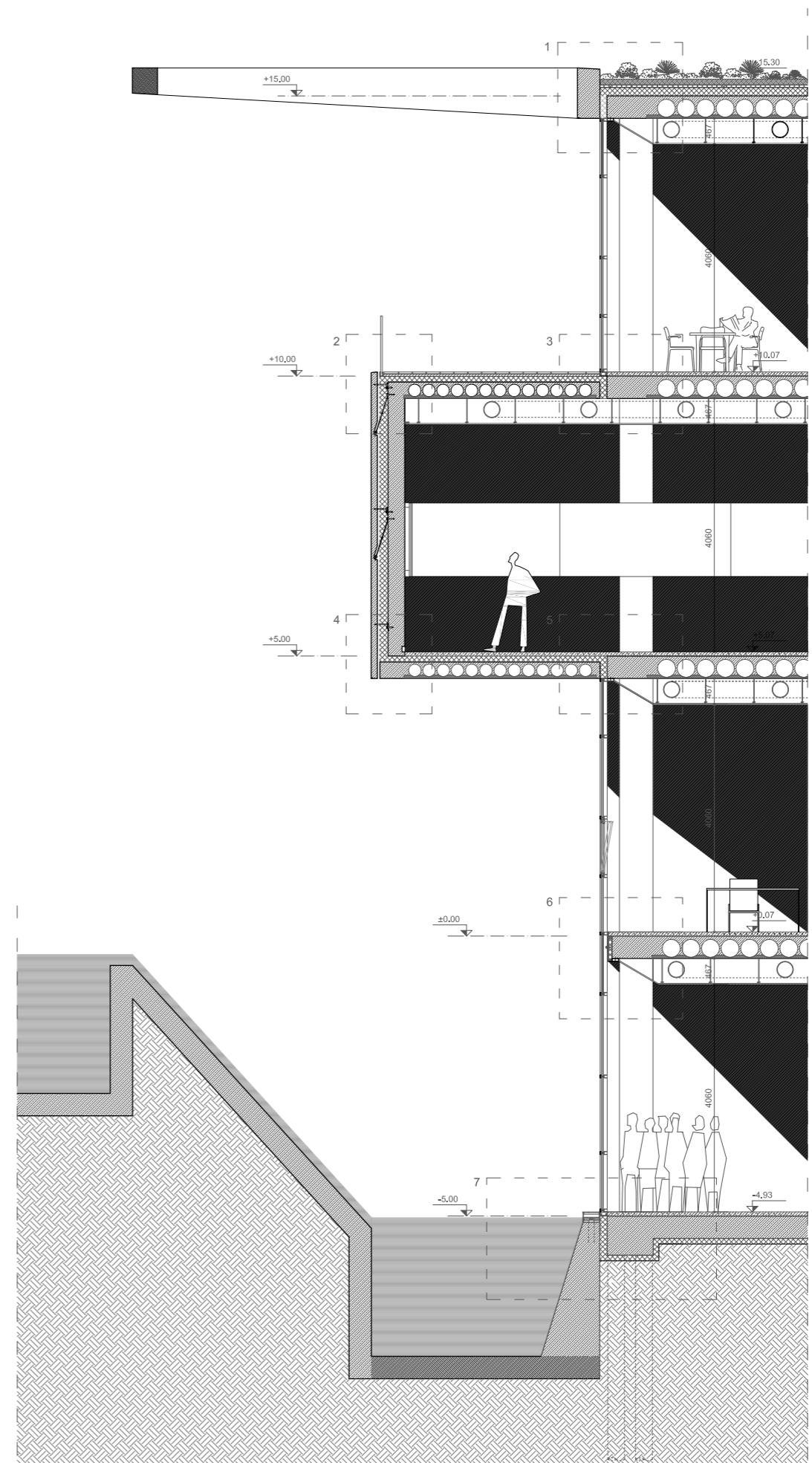
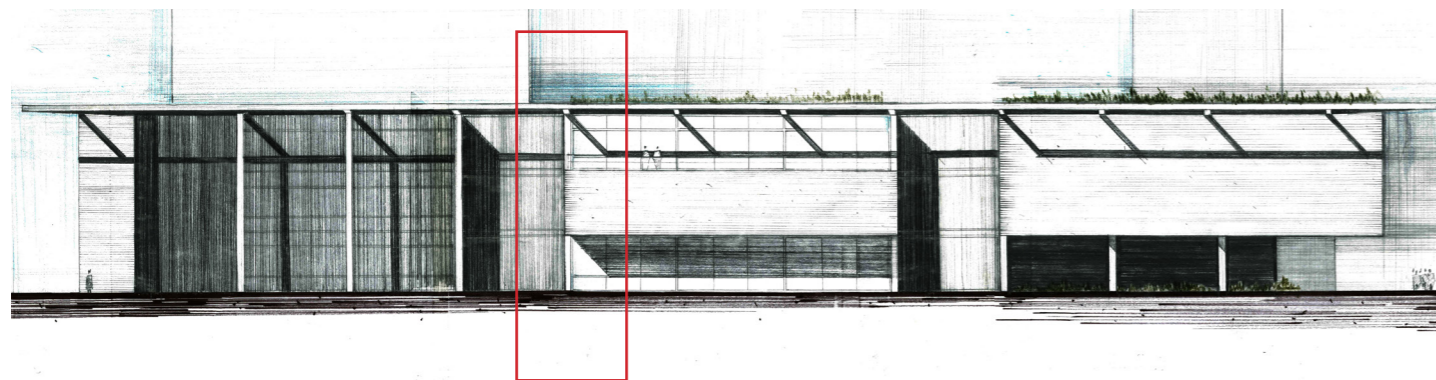


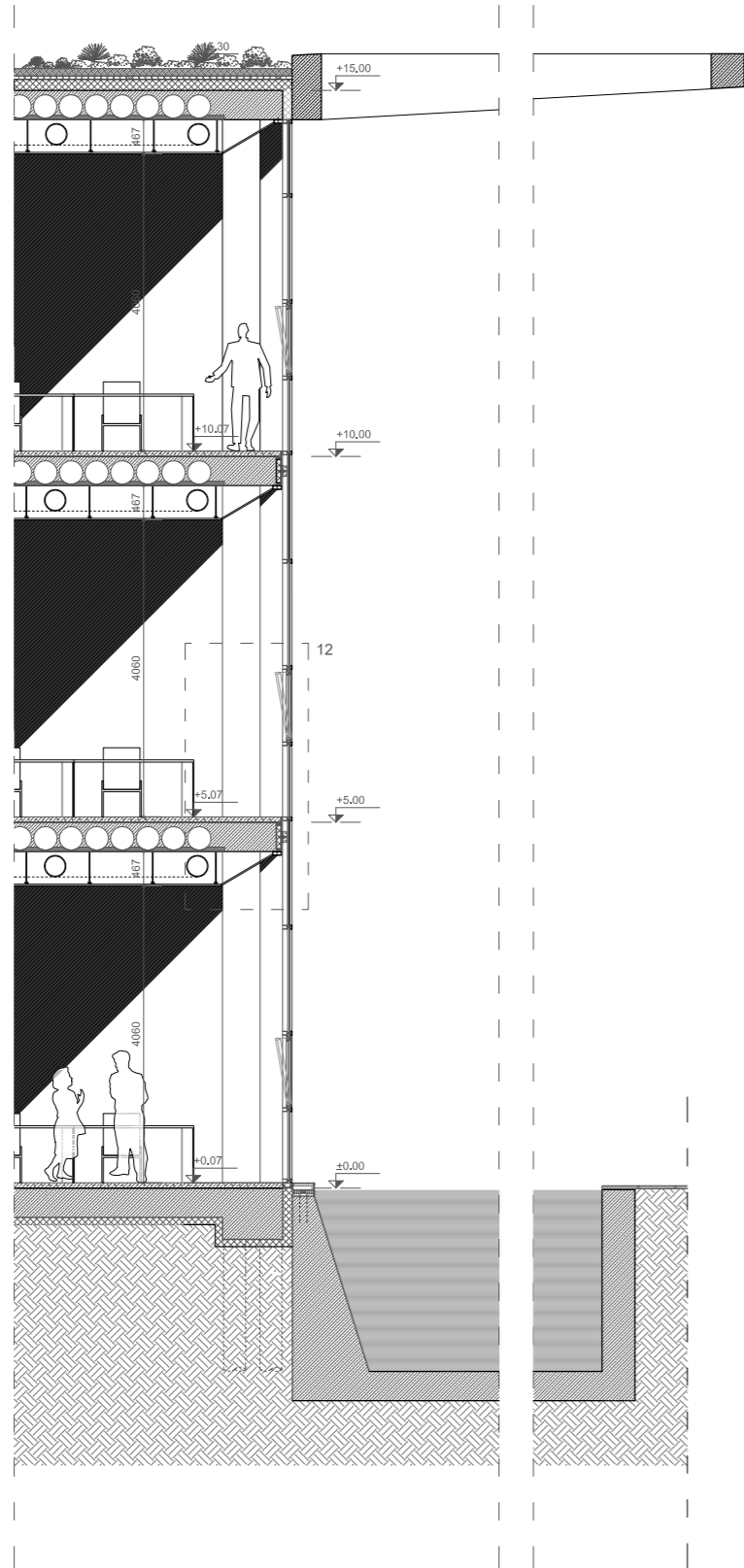




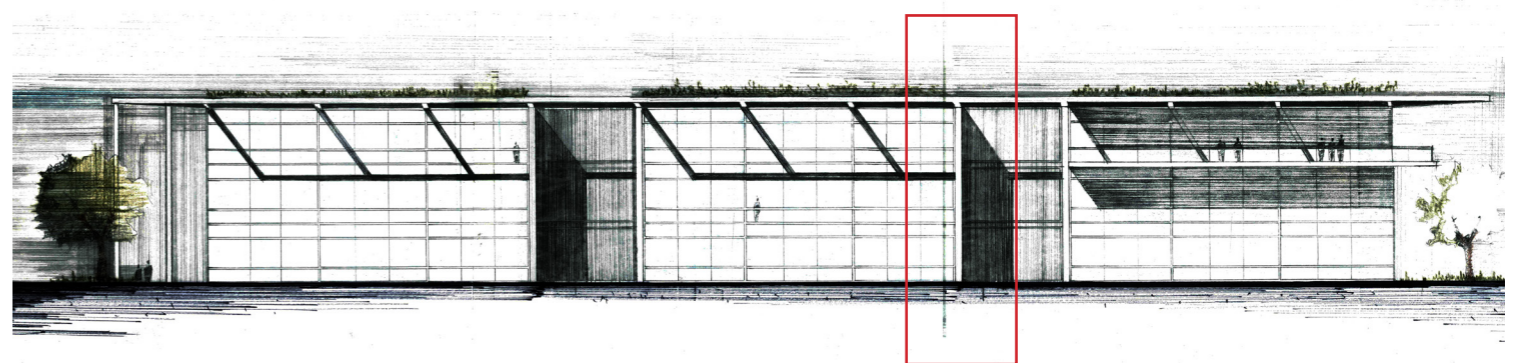


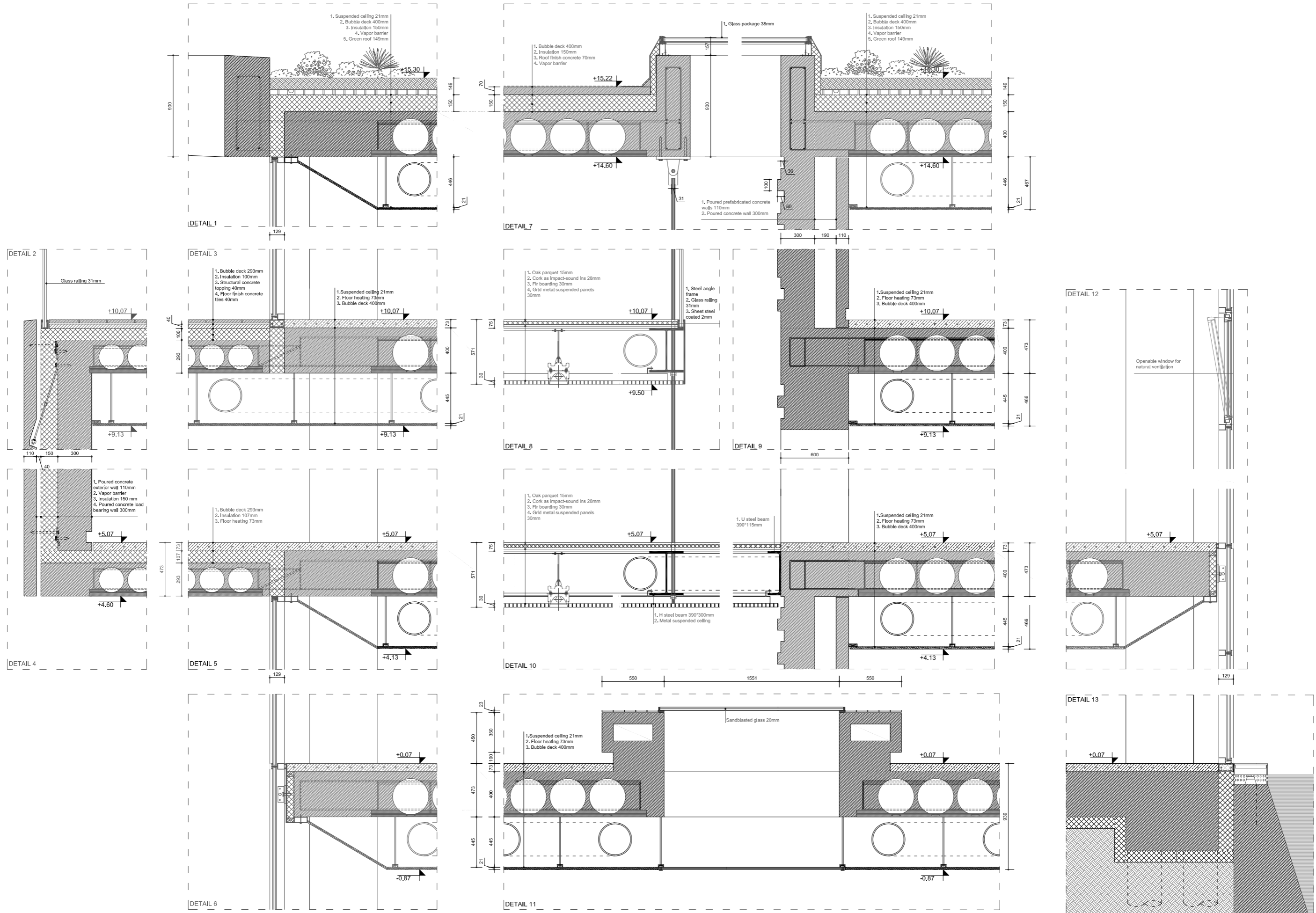
Fragment of the East Elevation

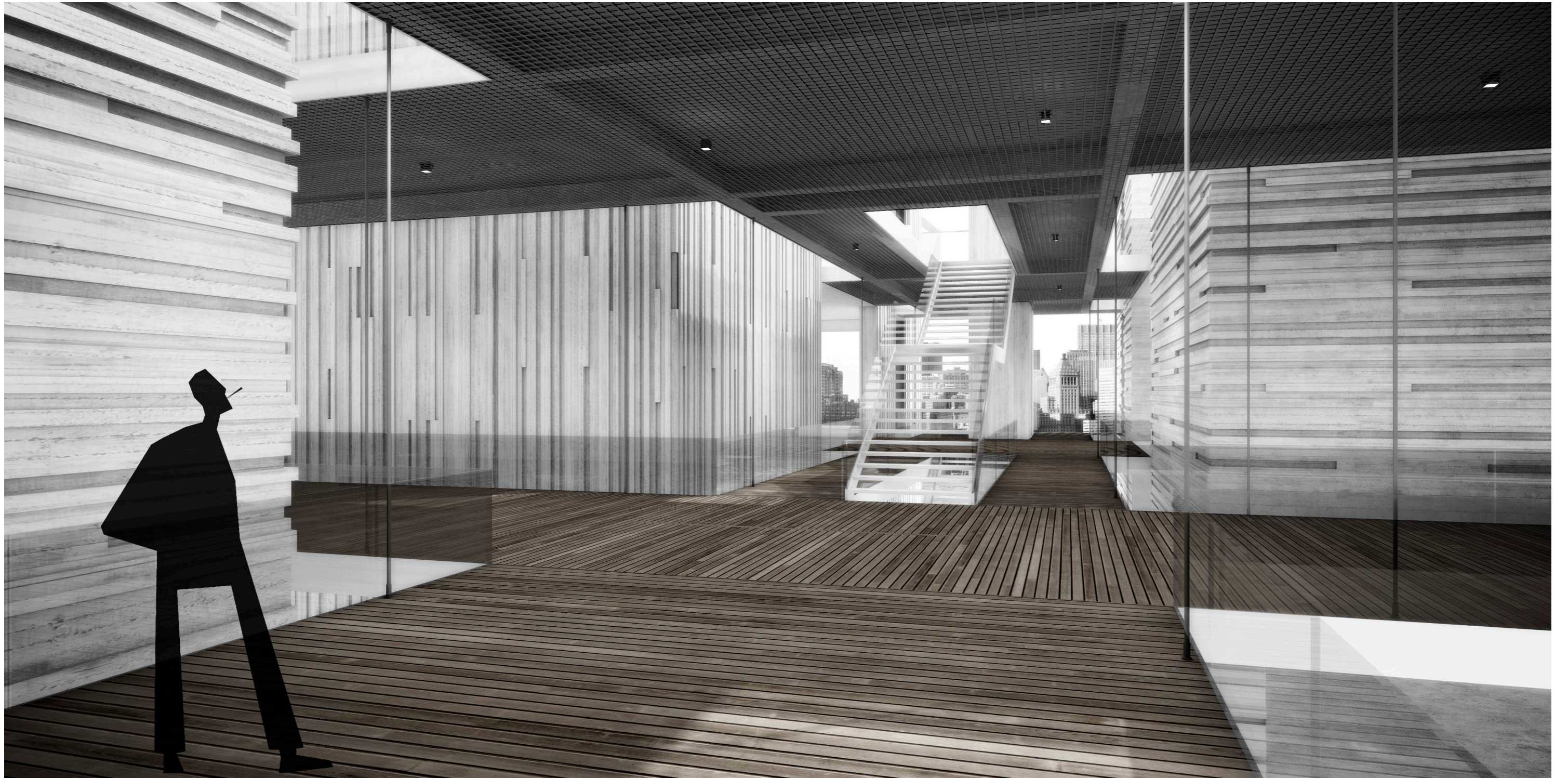




Fragment of
the West Elevation







THANK YOU