

Atlas of Details



Luigi Mattioni, Eugenio Soncini, Ermenegildo Soncini, Arturo Danusso. Torre Breda 1950-1955

Author(s): Vincenzo Greco, Matteo Bianco

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Atlas of Details is a research project to demonstrate how insightful a section can be, in order to represent the complexity of the architectural artifact, since it allows the simultaneous perception of materiality and form, of building envelope and interior spaces. Atlas of Details is a project by The Formwork, an association established by professors and PhD candidates with diverse academic backgrounds (history, architectural design, technology, preservation) working at the IUAV University in Venice and at the Milan Politecnico. For more information about the Atlas of Details and The Formwork, please contact info@theformwork.org.

The Formwork

Cultural association

Cannaregio 638,

30121 Venezia (VE)

<https://www.theformwork.org>

<https://www.detailsinsection.org>

info@theformwork.org

**Luigi Mattioni, Eugenio
Soncini ed Ermenegildo
Soncini
Torre Breda
1950-1965**

Text

Vincenzo Greco
IUAV Venezia

Drawings

Vincenzo Greco
Matteo Bianco
IUAV Venezia

Architect

Luigi Mattioni (1914-1961), Eugenio Soncini (1906-1993), Ermenegildo Soncini (1918-2013).

Name of the building

Torre Breda

Site

Via Vittori Pisani, Milan (IT)

Client

Società Immobiliare Grattacielo di Milano

Contractors

SCIC

Engineer

Piero Papini, Antonio Rognoni, Emilio Sozzani

Other actors

Engineers Piero Portaluppi e Arturo Danusso (structural consultant);
Oscar Piccinino (plant project);
Engineer Cappelli Pio (construction manager).

Building permit

1950: executive project
1950: building permit

Start of construction works

1950: start of construction works.

Intermediate stages

-

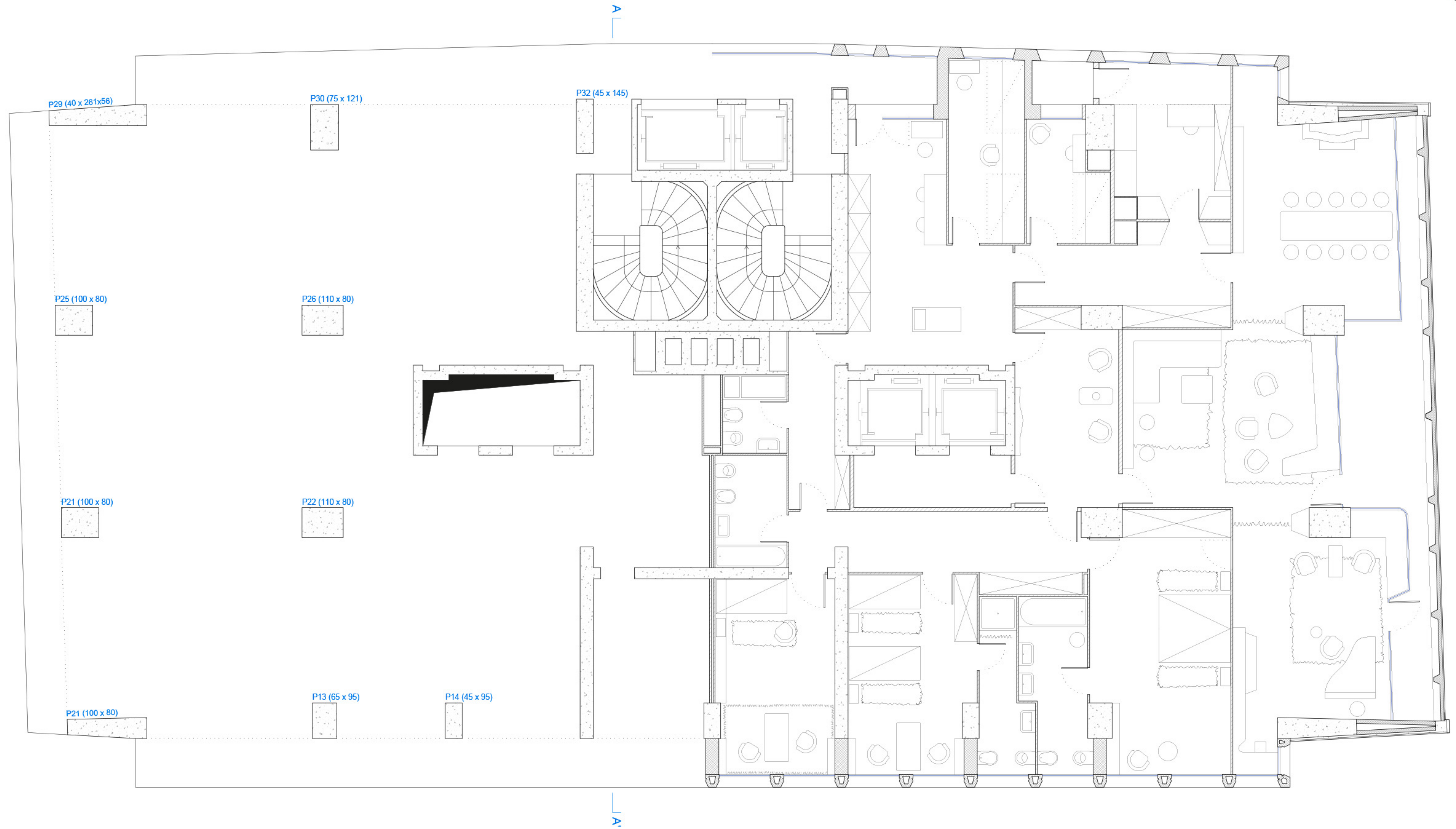
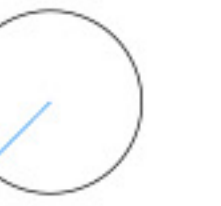
End of construction works

1955: end of construction works.

Construction system

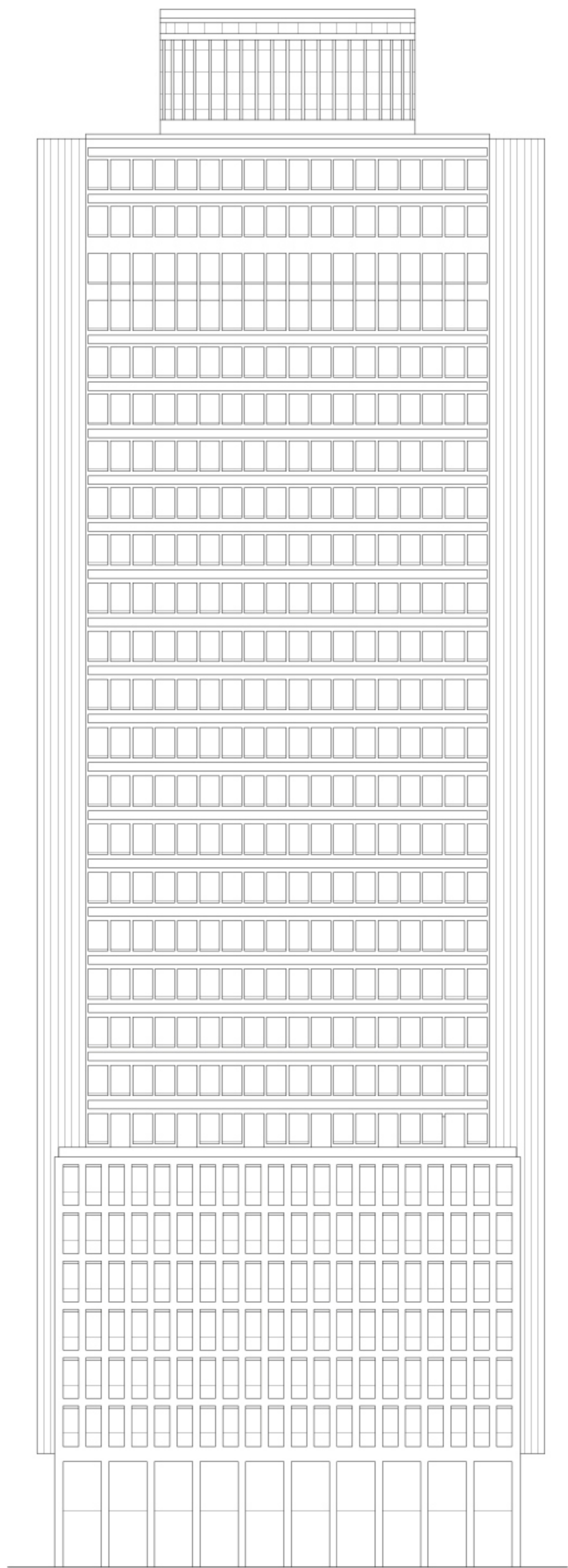
The structure of this building represents a first innovation regarding the static system of a tall building. Arturo Danusso in collaboration with other engineers devised a new structural system called a core system. This new typology makes it possible to relieve the stresses bearing on the perimeter, reinforced concrete pillar structure by channeling them within the reinforced concrete box core, rigidly grafted into the slab foundation. The two basement floors have slabs varying in thickness between 80 and 100 cm contributing, together with the wide wall partitions, to make the elevation structure more rigid and stable.

The floors are made of ribbed reinforced concrete, cast in place inside metal formwork.

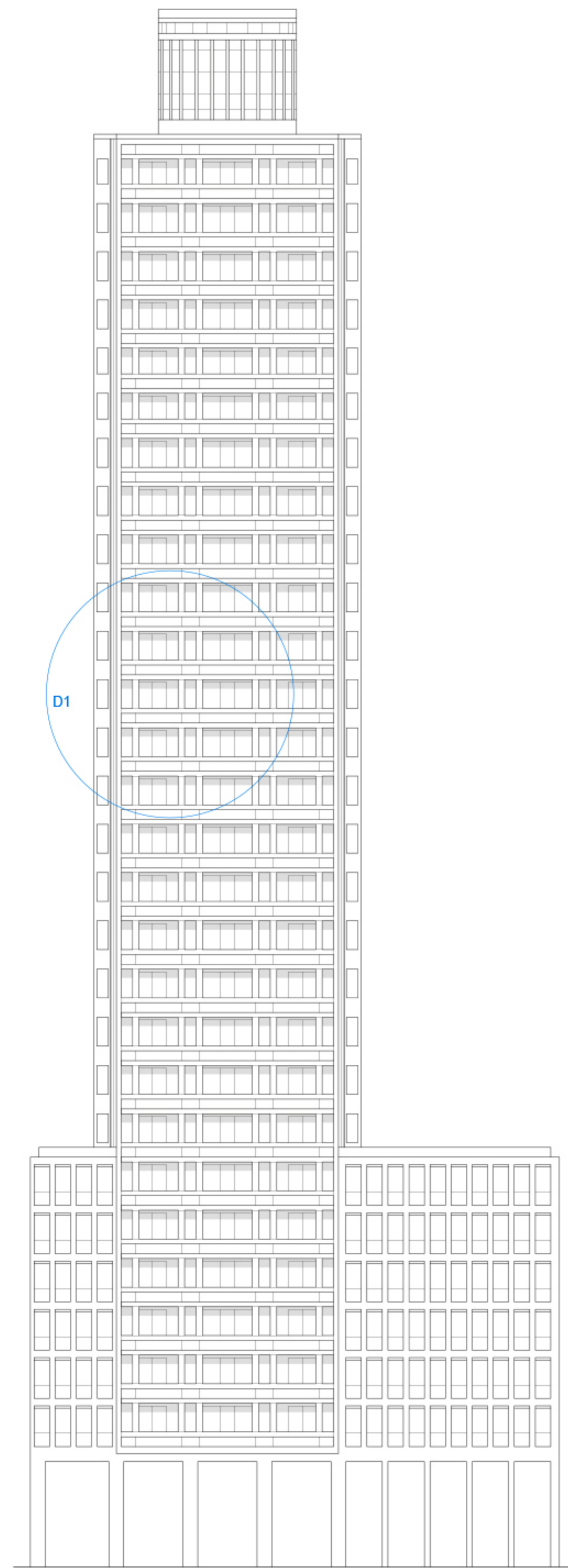


Type floor plan
Scale 1:75

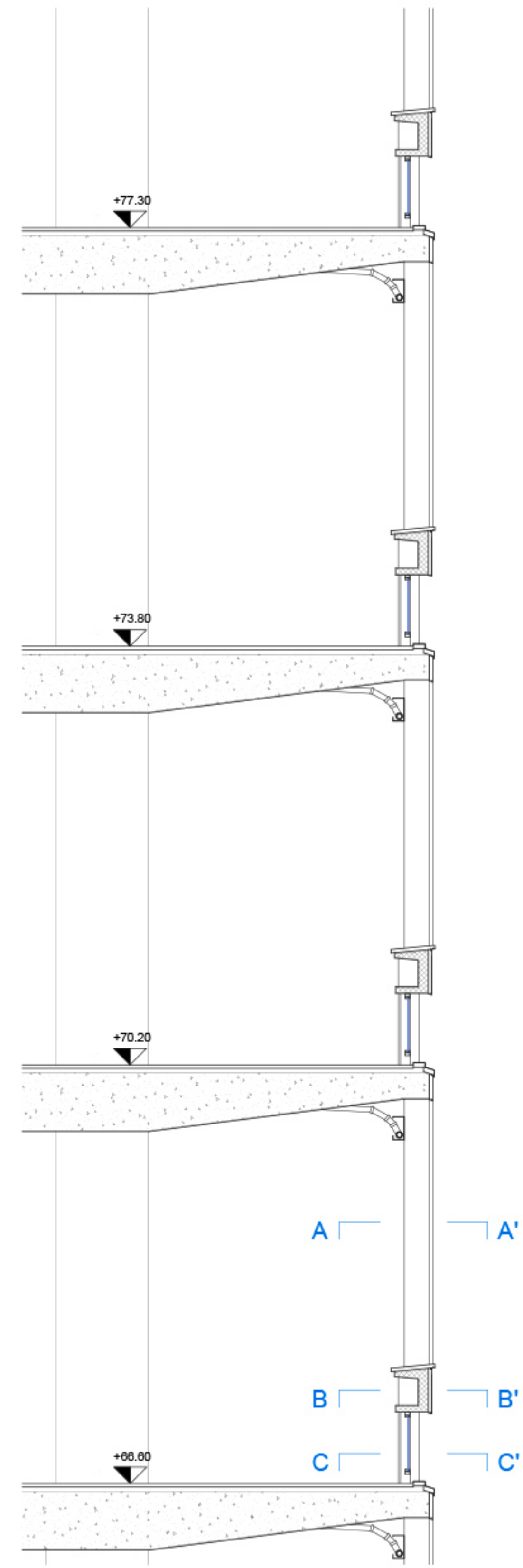




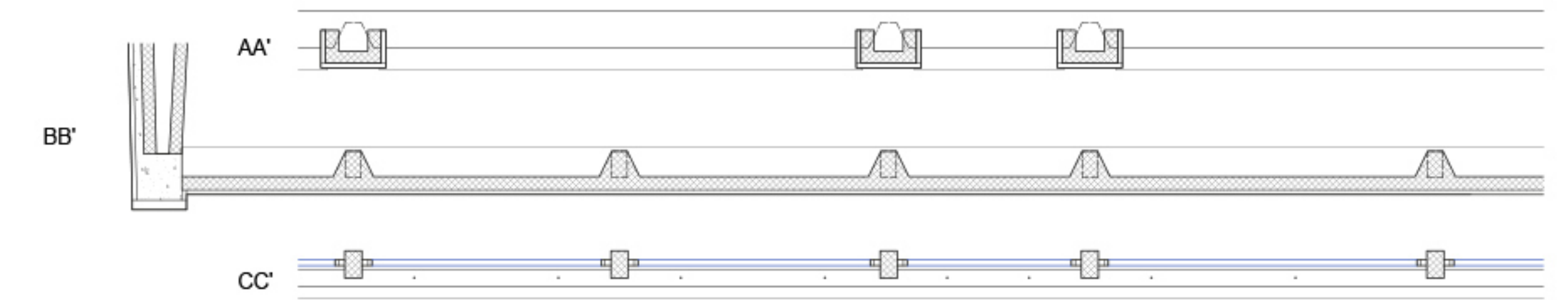
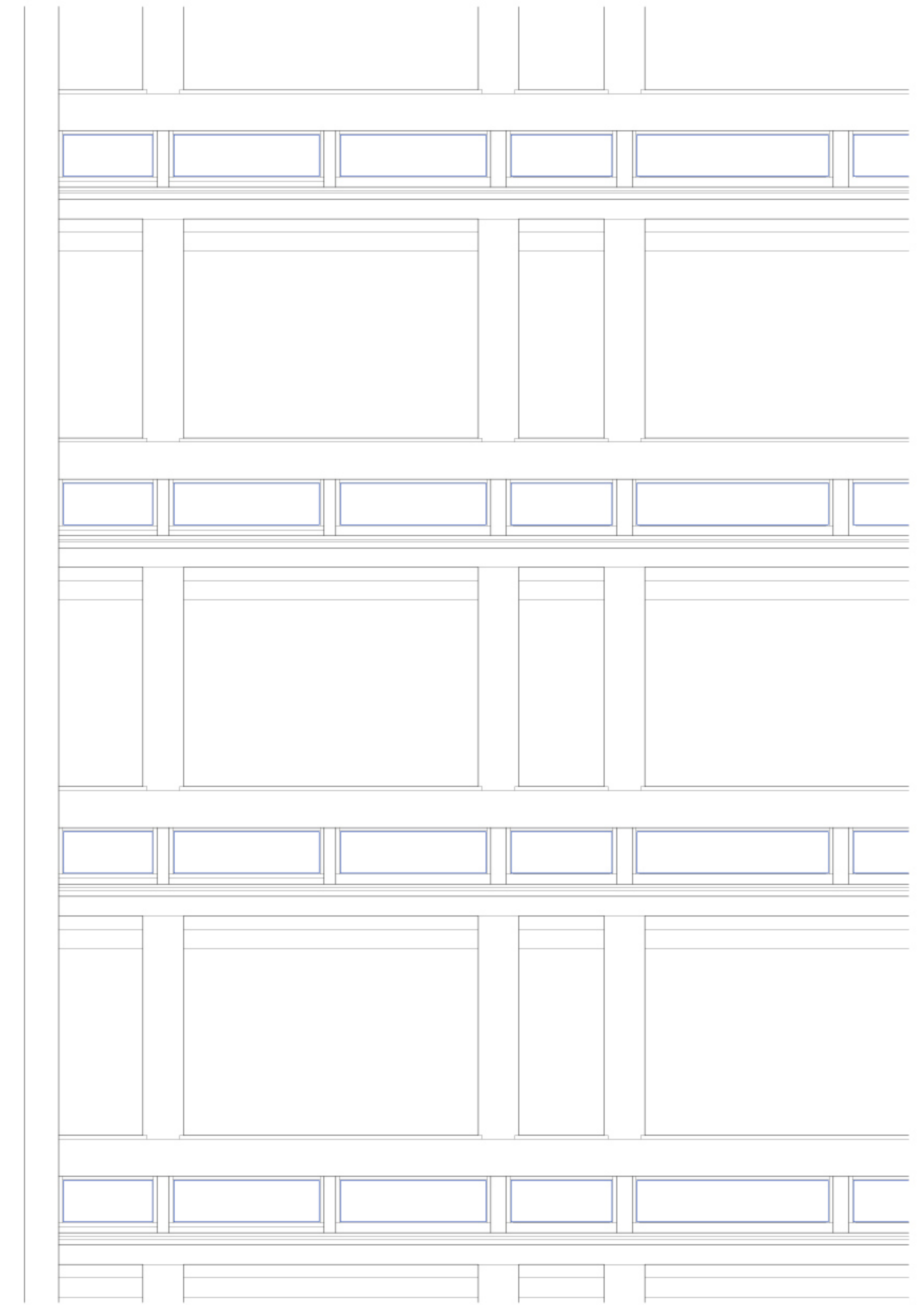
Elevation on via Vittor Pisani



Elevation on piazza della Repubblica

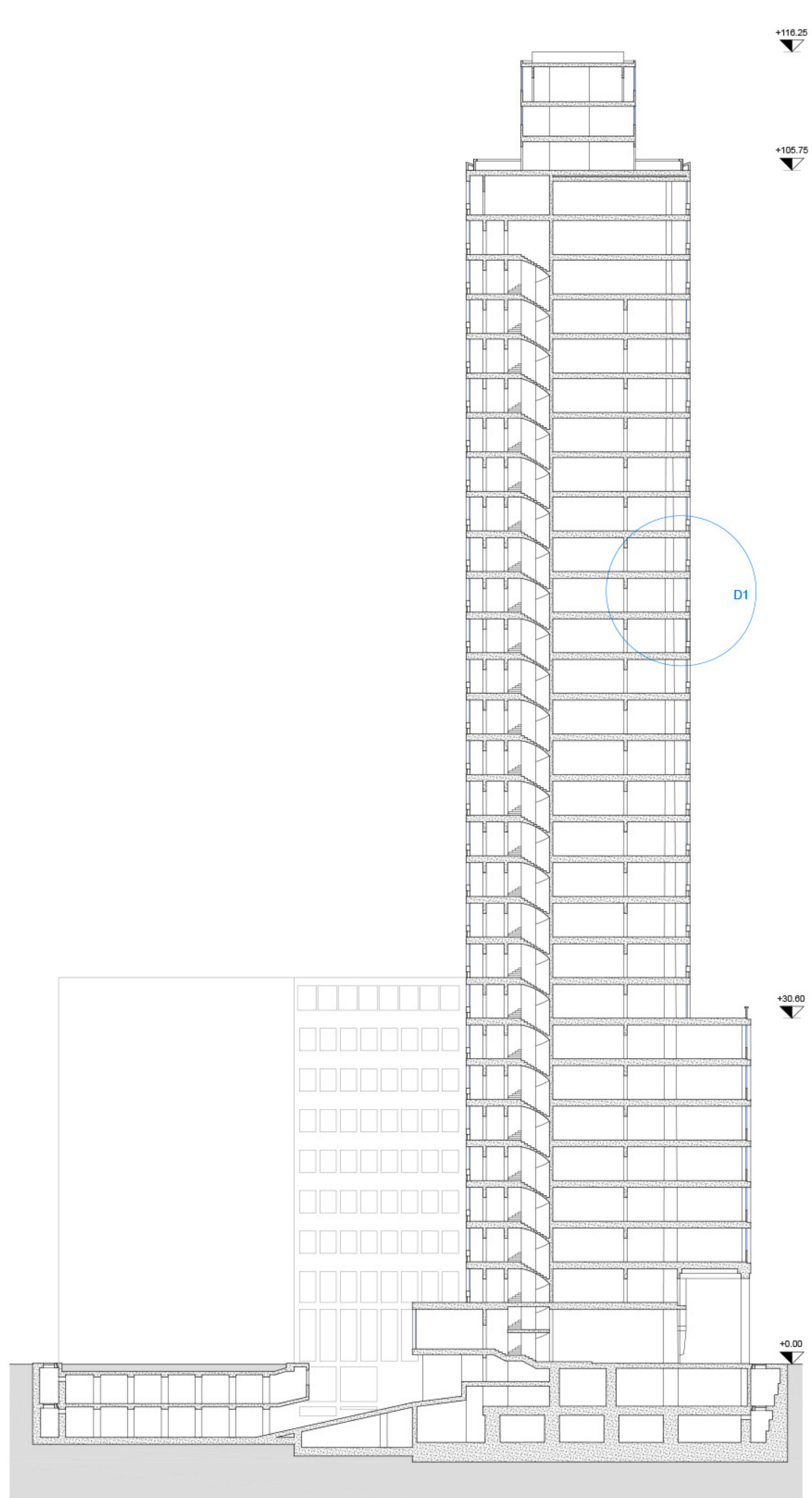


D1 façade detail
Scale 1:50

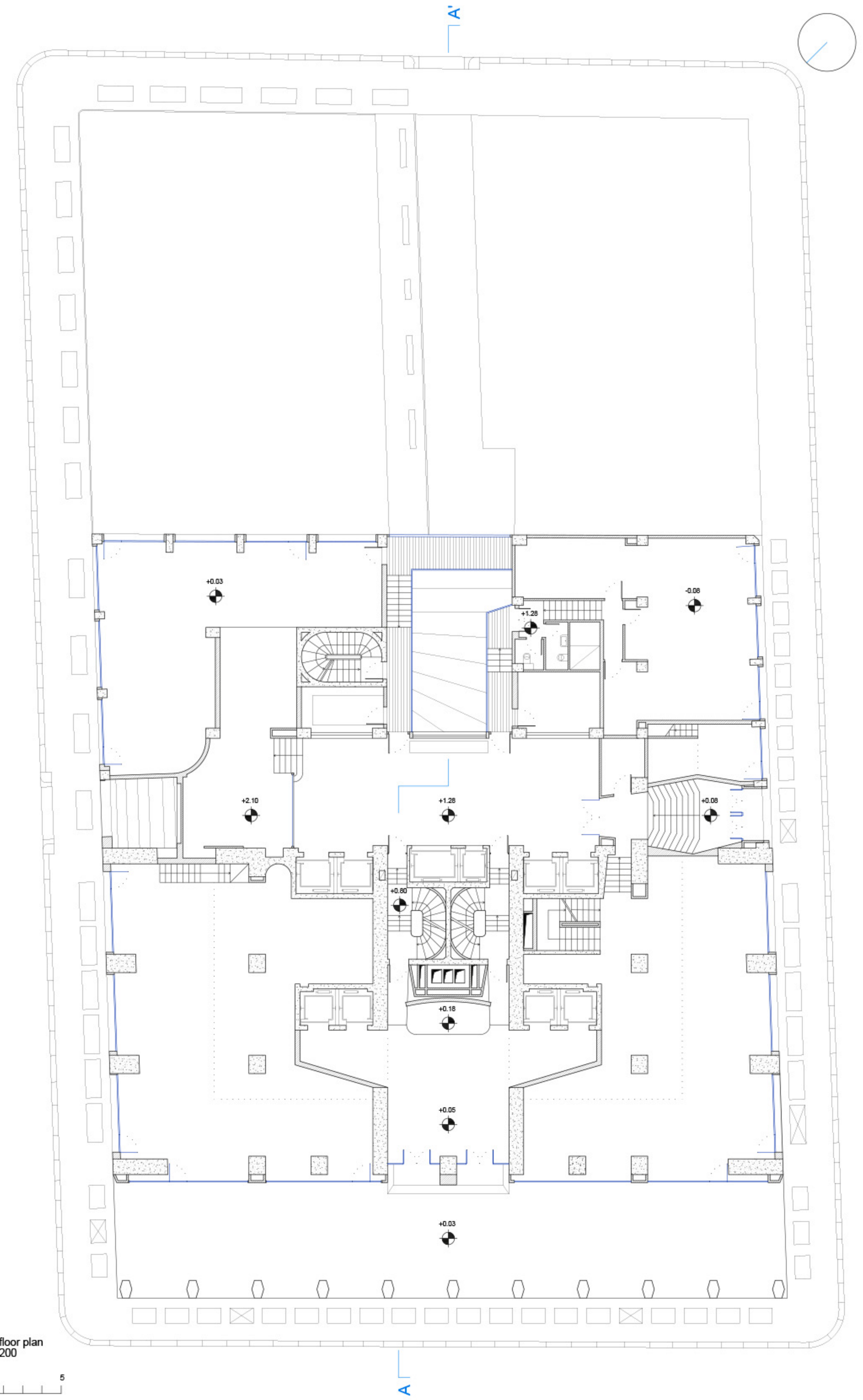


Elevations
Scale 1:375





Cross section A-A'
Scale 1:375



Ground floor plan
Scale 1:200

