

Rethinking a Parking Garage

P5

City Hotel, Amsterdam

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1/07/2021

Adaptation.



Nieuwmarkt playground by Aldo van Eyck, Amsterdam
A temporary playground built on an empty plot in the city.



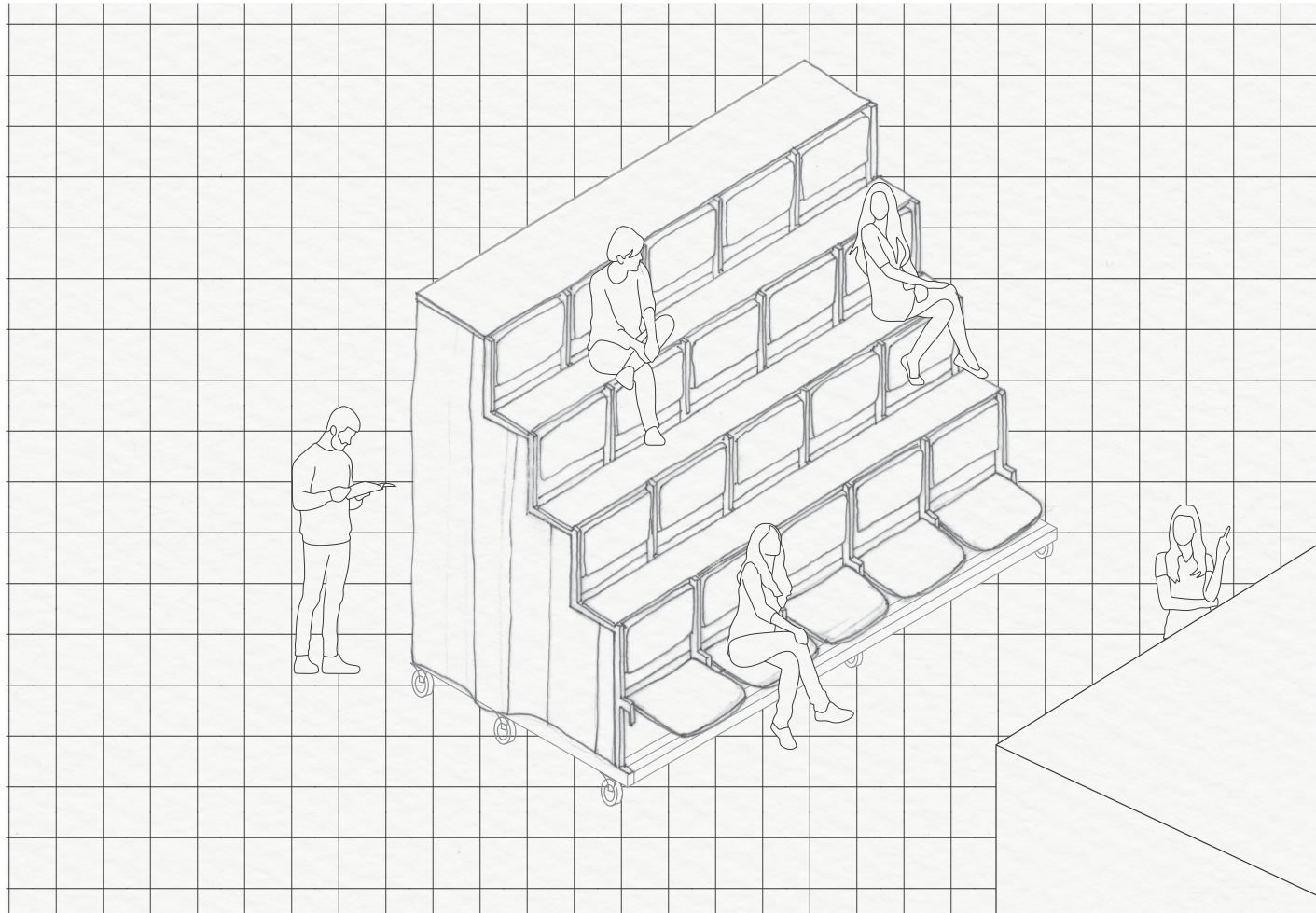
Lola Luid by Lola (leeg stand oplossers Amsterdam), Amsterdam
Lola is a new form of a anti squat cooperation that opens its doors to everyone.



Gele Scheikunde, Delft
Former Chemistry Faculty now temporary being purposed in a place for small businesses.

Paused buildings are not modified in their architectural form, although its purpose is. The new temporary function is given by hearsay without changing the composition of the building. These new functions become fluid in paused places, and adapt into the existing fabric. This adaptation is extraordinary and it stimulates creativity.

A playground to share knowlage.



A playground to share knowledge
Bleachers made out of former lecture room chairs found in the anti squat building with an exchange library in the back.



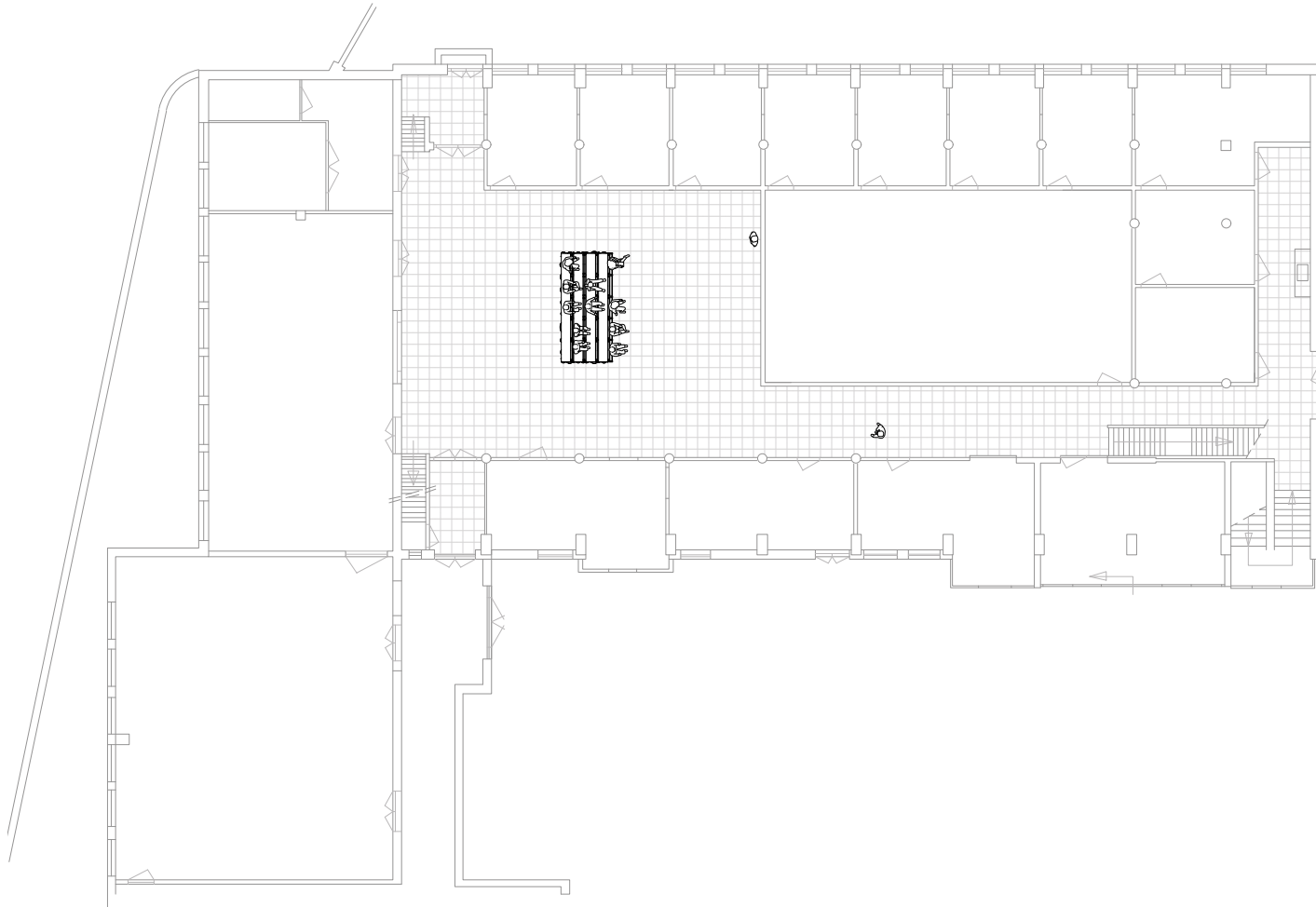
A playground to share knowledge
Bleachers are located in a public interior of the building.



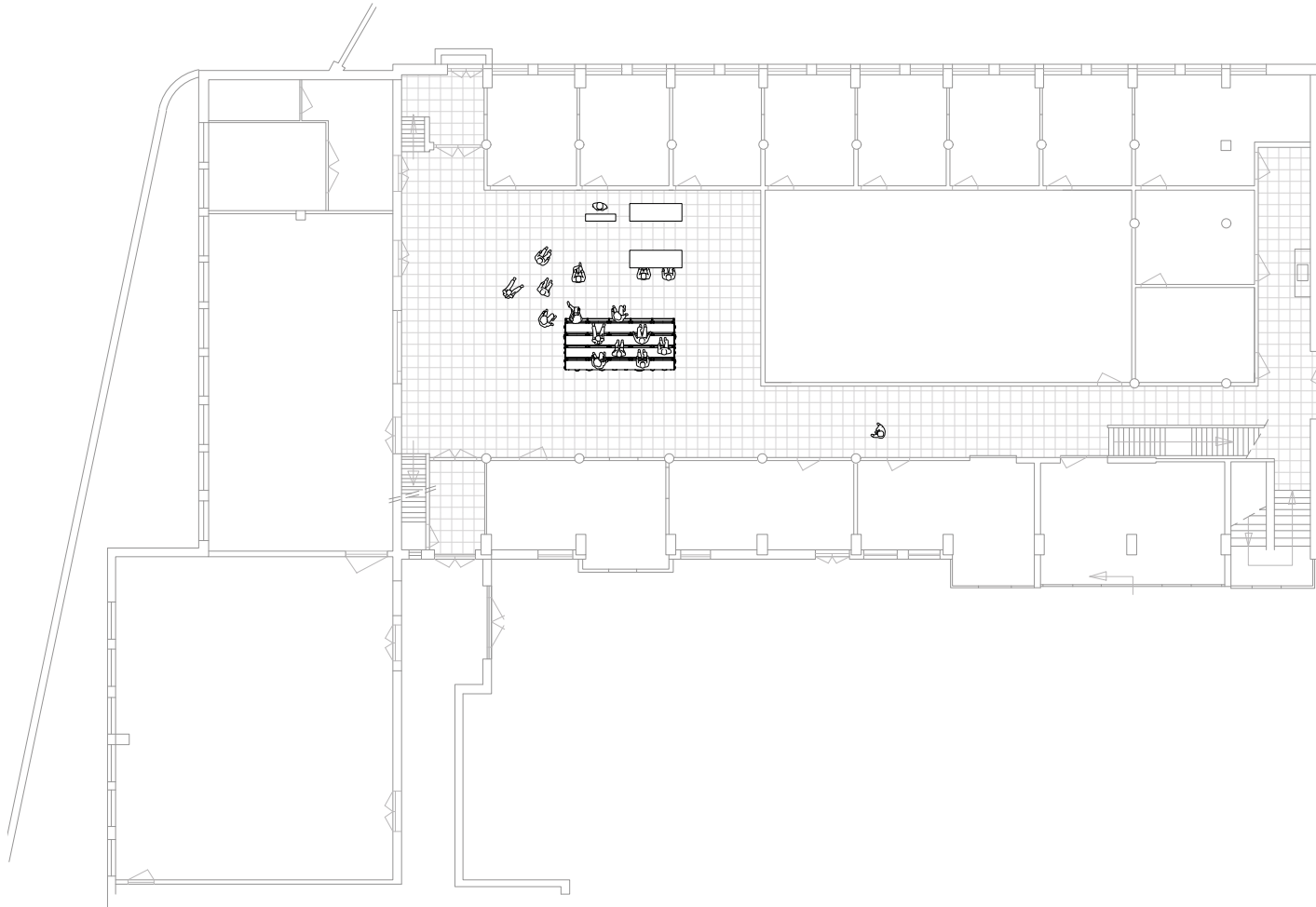
A playground to share knowledge
Bleachers made out of former lecture room chairs found in the anti squat building with an exchange library in the back.



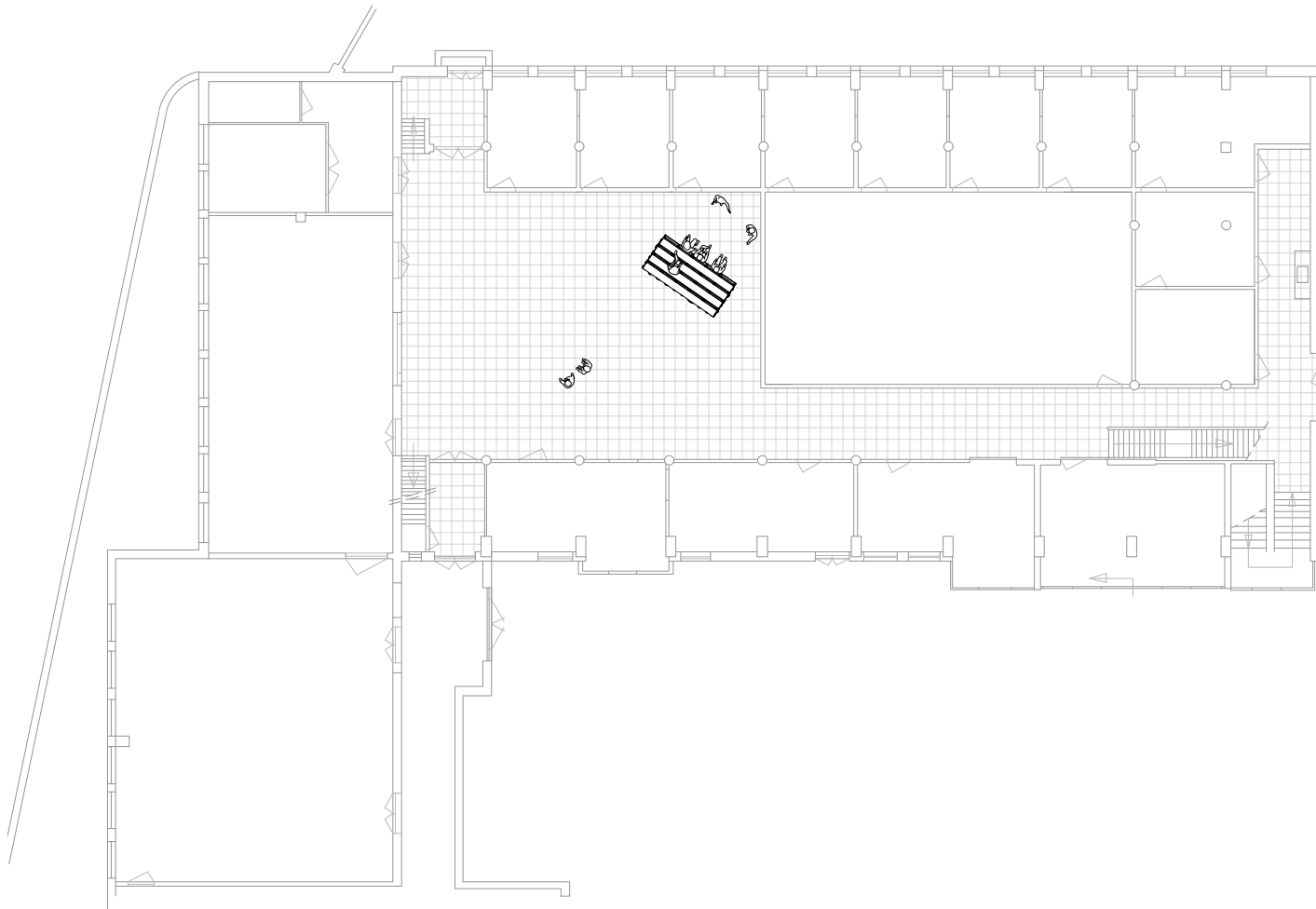
A playground to share knowledge
Used at the moment as tribune for ping pong tournaments.



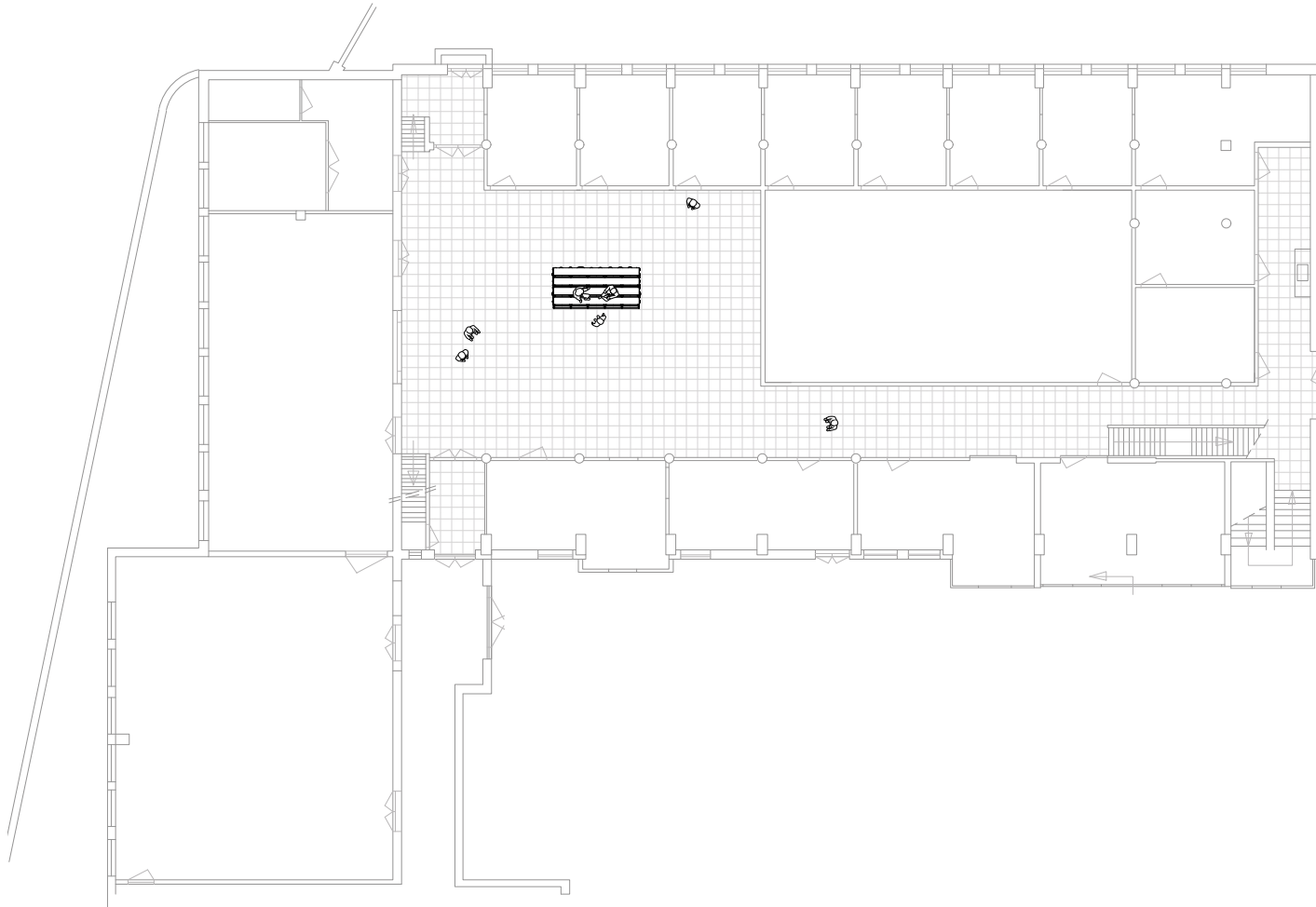
A playground to share knowledge
Plan showing the bleachers used for a lecture.



A playground to share knowledge
Plan showing the bleachers used for the P5 presentation.



A playground to share knowledge
Plan showing the bleachers used for a private meeting.



A playground to share knowledge
Plan showing the bleachers used for lunch breaks.

Precedents.



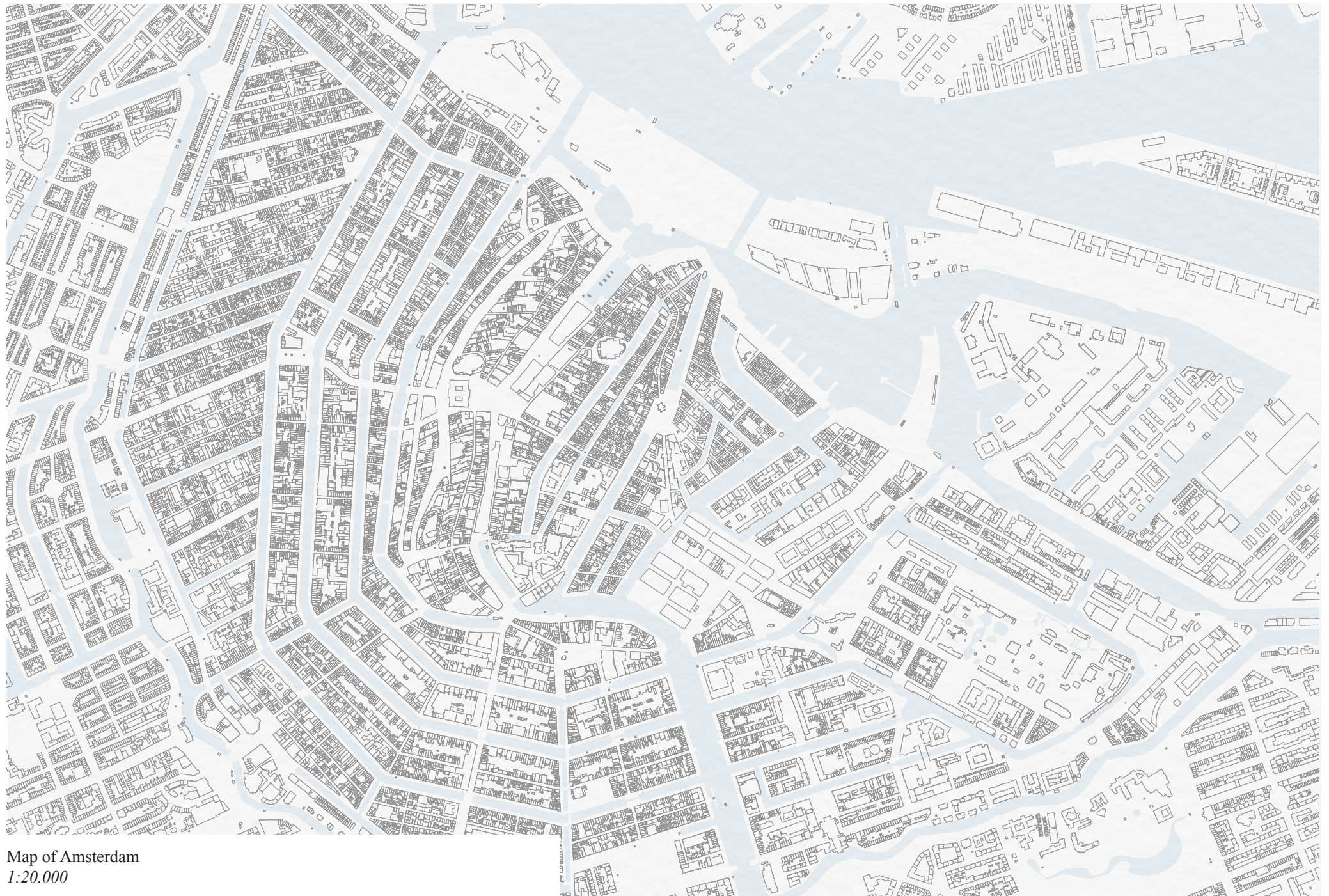
SESC Pompeia, Lina Bo Bardi



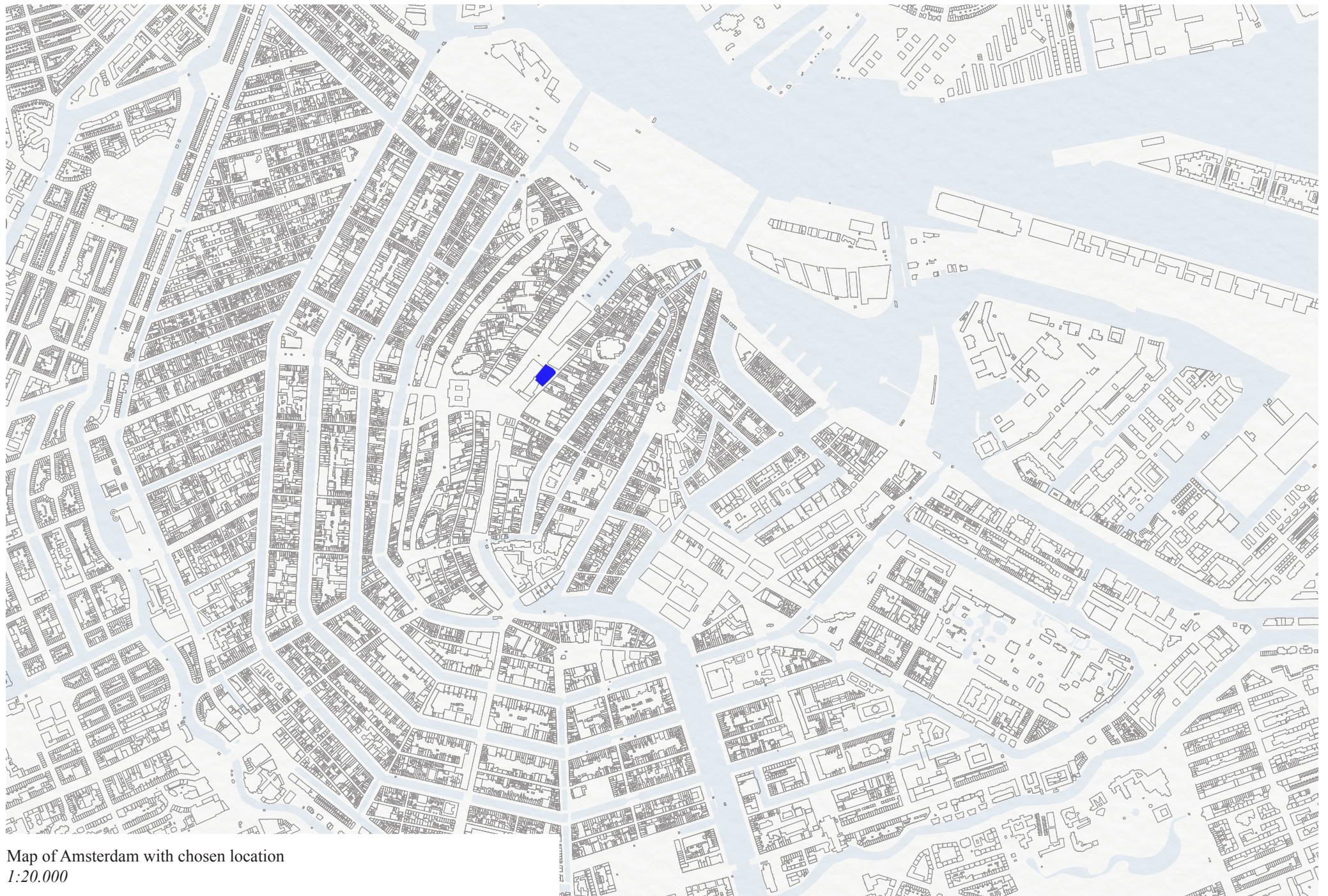
Multifunctional Center De Meerpaal (Community Center), Frank van Klingereren

Amsterdam.

How do tourists adapt to the existing fabric of the city of Amsterdam?



Map of Amsterdam
1:20.000



Map of Amsterdam with chosen location
1:20.000



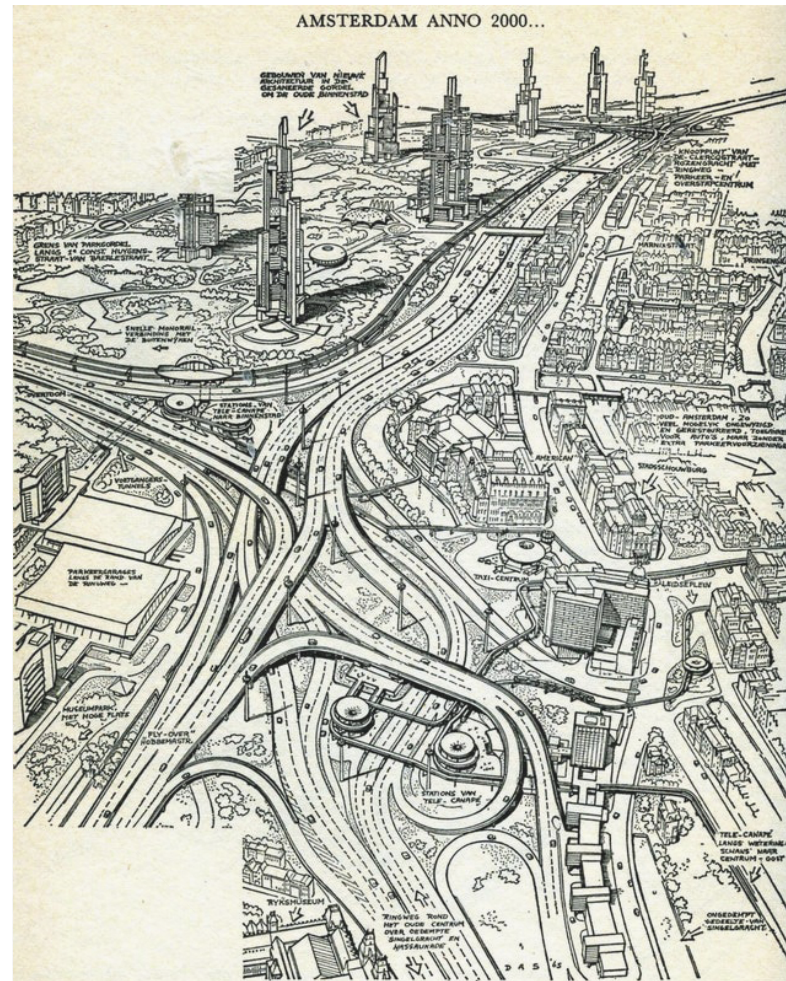
Carpark Bijenkorf by France van Gool, 1977-1981

What is the future of cars in Amsterdam?

What is the future of multy story parking garages?

*Municipality Agenda: “Amsterdam Autoluw” = “Car-free Amsterdam”
by 2030.*

Point 3 of the agenda: “fewer parking spaces, more public space”



Amsterdam Anno 2000...

Drawing of a urban plan proposal in 1966 for the future of Amsterdam.



Q-park Bijenkorf, Amsterdam in 1977-1981



Europarking, Amsterdam in 1966-1971

Two multi story parking garages in Amsterdam build in the 70s
These structures are silent giants and represent a culture that revolves around the car.



The Provo's Movement

Provo's started the white bike plan, the first attempt of bike sharing in the City.



The Provo's Movement

Provo's started the white bike plan, the first attempt of bike sharing in the City.



Provo's white bike with John Lennon and Yoko Ono.
The protest against cars from the provo movement arrived also to the peaceful protest of John Lennon and Yoko Ono in the Hilton Hotel in Amsterdam.

*In the near future, when cars in the city of Amsterdam will become obsolete,
what will happen to parking garages such as the Q-Park Bijenkorf?*



Q-Park Bijenkorf by France van Gool, Amsterdam
Monumental parking garage in a monumental location.



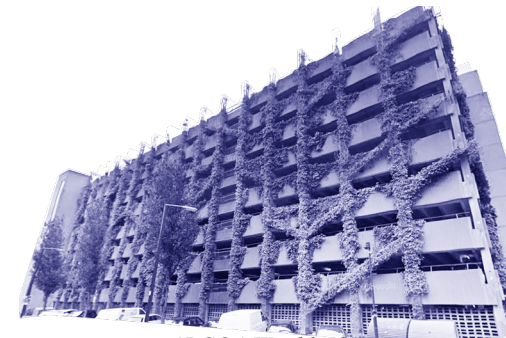
*Q-park Bijenkorf,
1977-1981*



*Europarking,
1966-1971*



*Q-park City,
unknown*



*APCOA Westblaak,
unknown*



*Interparking Lijnbaan,
1977-1981*



*Q-park Bijenkorf,
unknown*



*Interparking WTC-Beursplein,
unknown*



*Mathildelaan,
unknown*

Other multi story parking garages in the Netherlands.



Other multi story parking garages in the Netherlands.
Monumental parking garage in a monumental location.



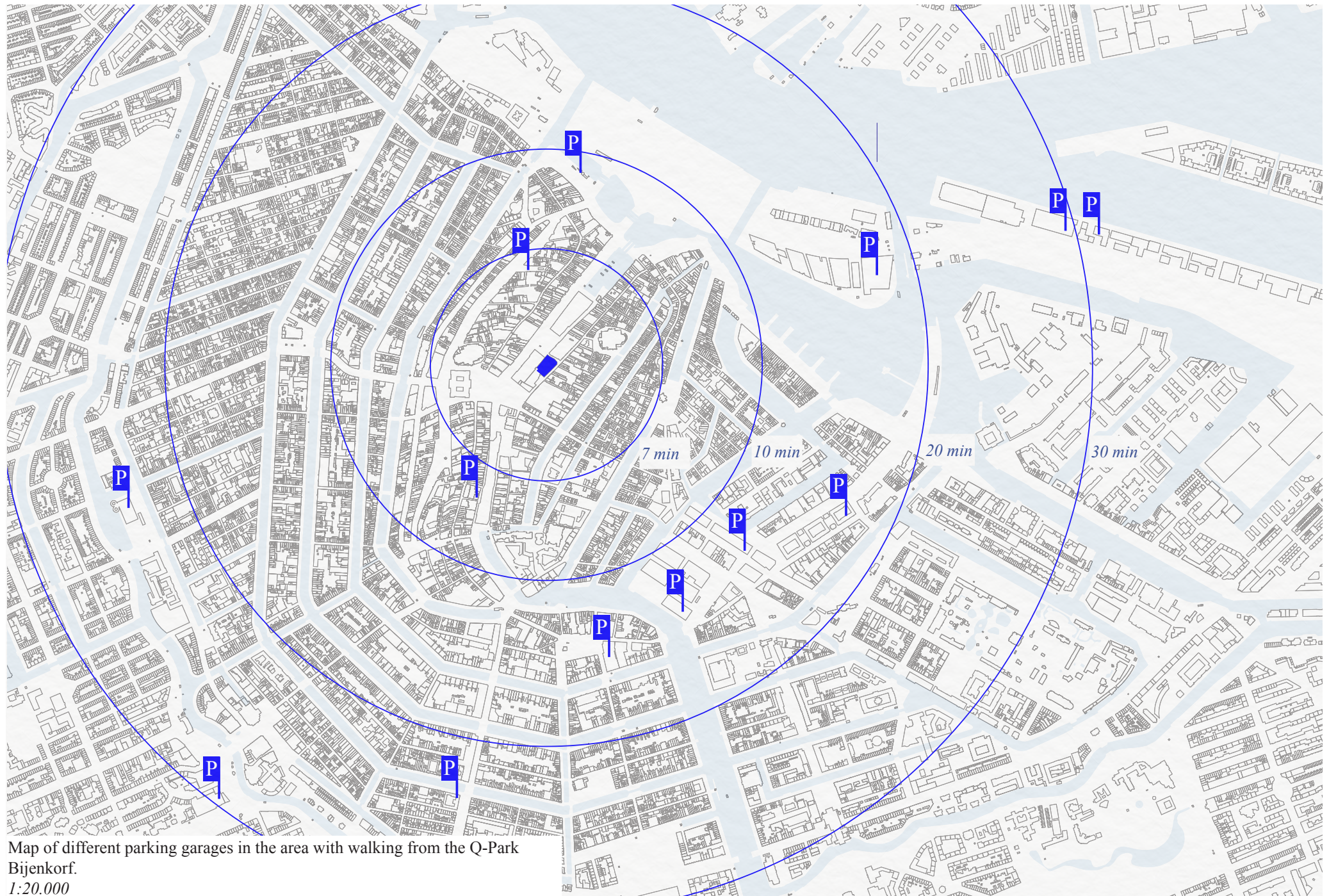
“It would take a bit of time to put this parking garage on the monument list. Such a specific function should not be frozen once and for all in the urban building. However, it should be borne in mind that Frans van Gool was an important Dutch architect. The Bijenkorf garage is a special feature in his oeuvre. Demolition can therefore only be justified by a significant improvement in the dismal situation in this part of the Warmoesstraat.”

Monuments & Archeology Office

How can the function of the q-park change without demolishing the building?

Is it possible to not modify the architectural form of the building although its purpose is?

Can the new function(s) become fluid and adapt into the existing fabric of the building?

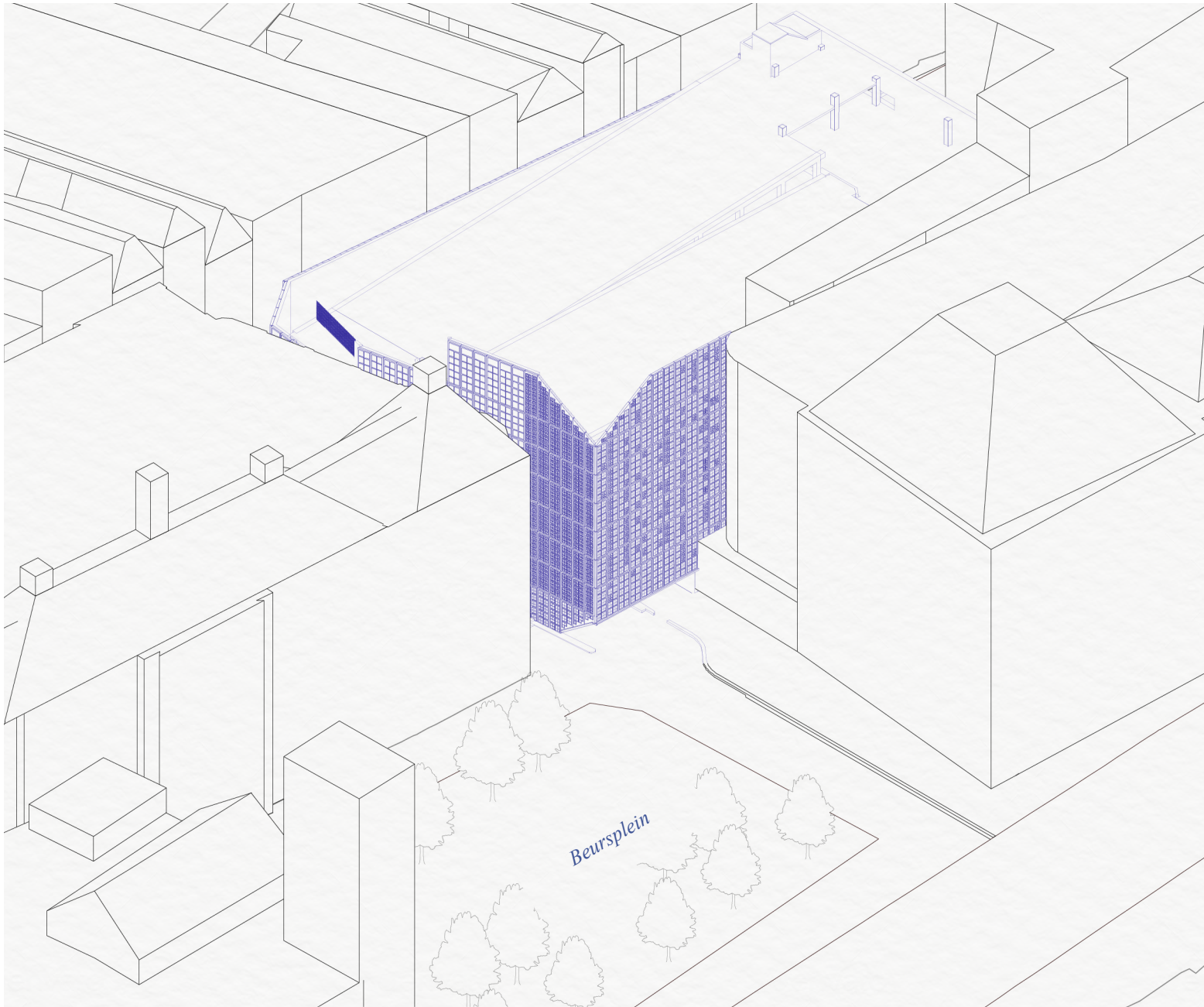


Context.

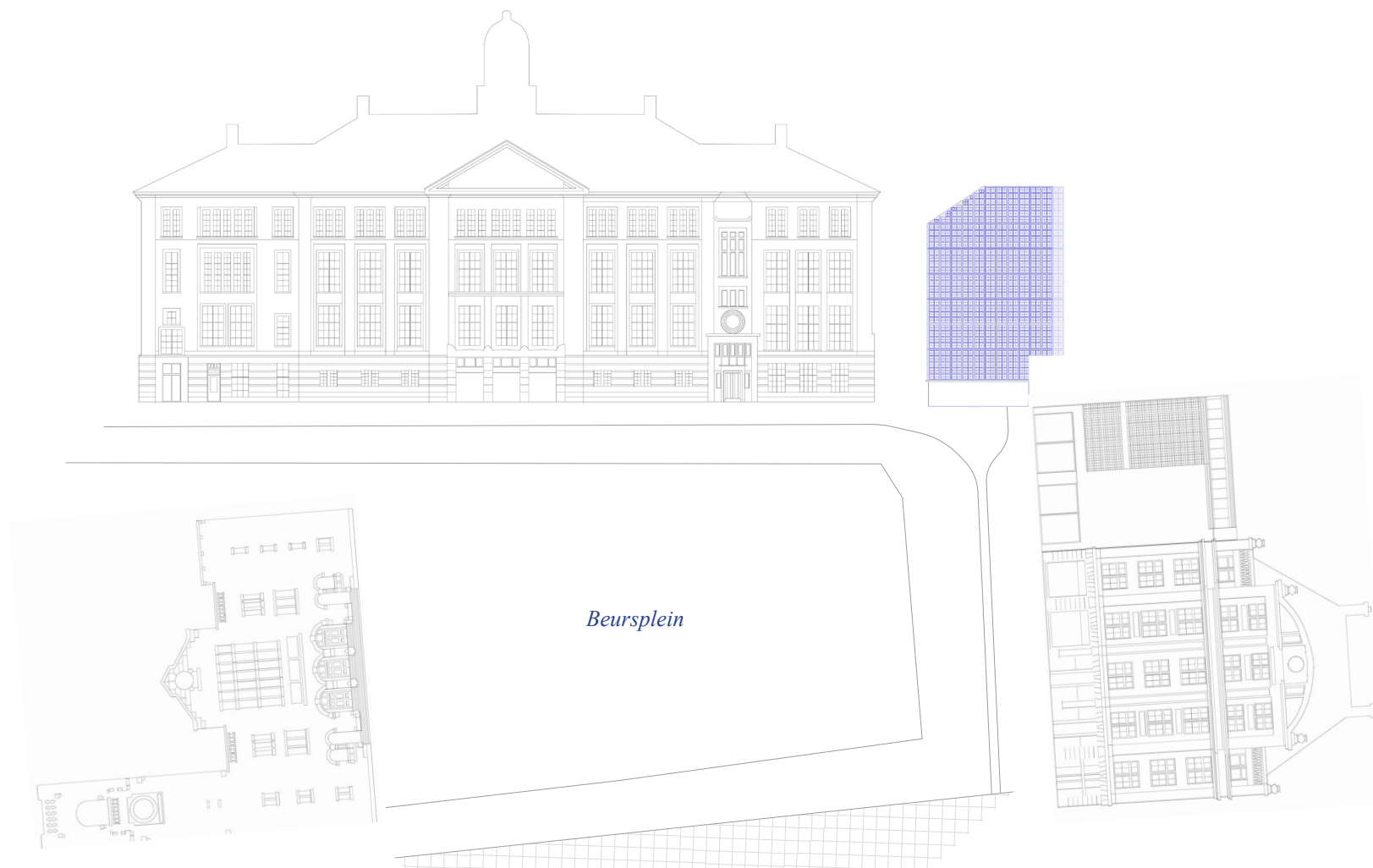


Q-Park Bijenkorf



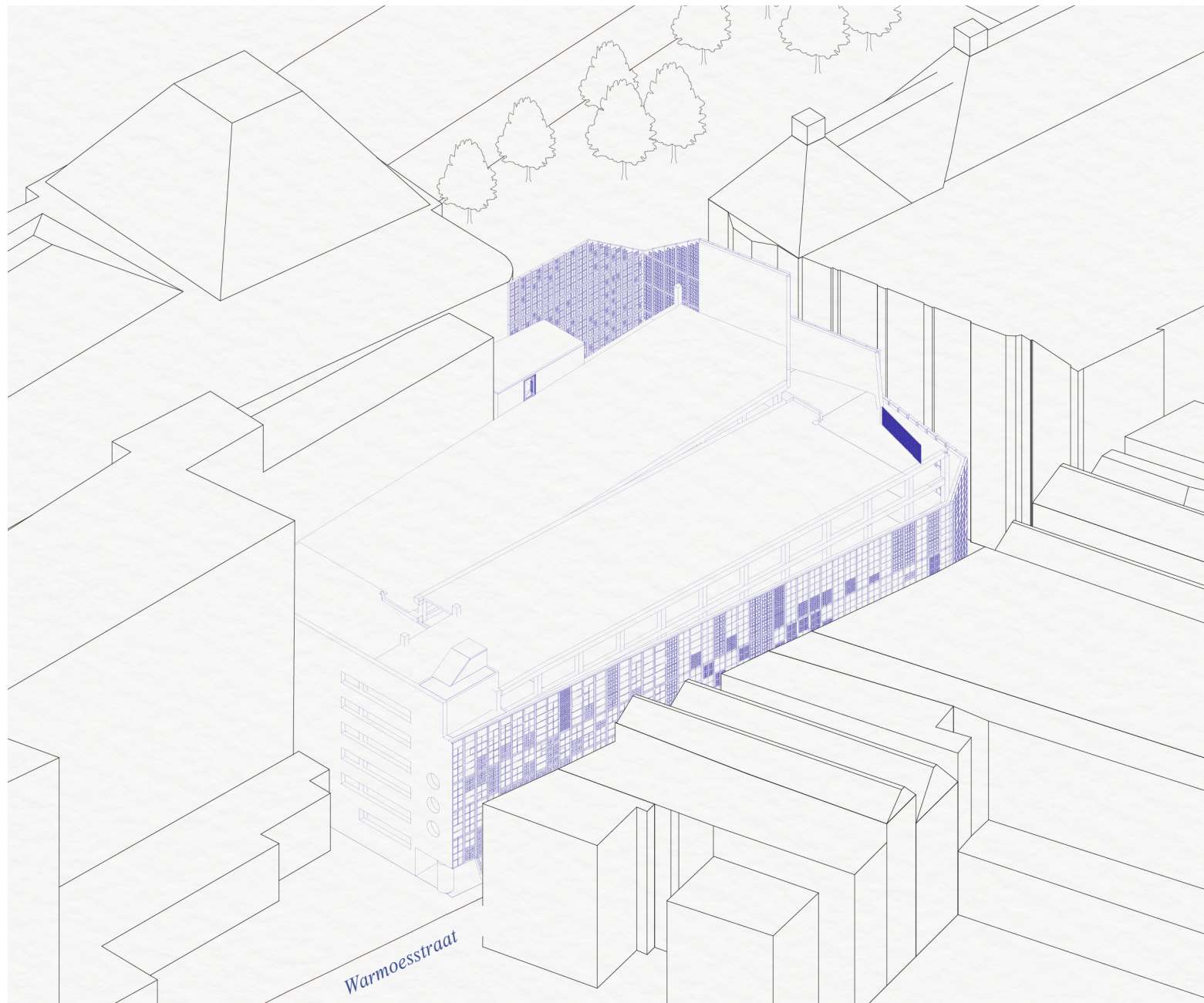


Aerial view of Q-Park from Beursplein.

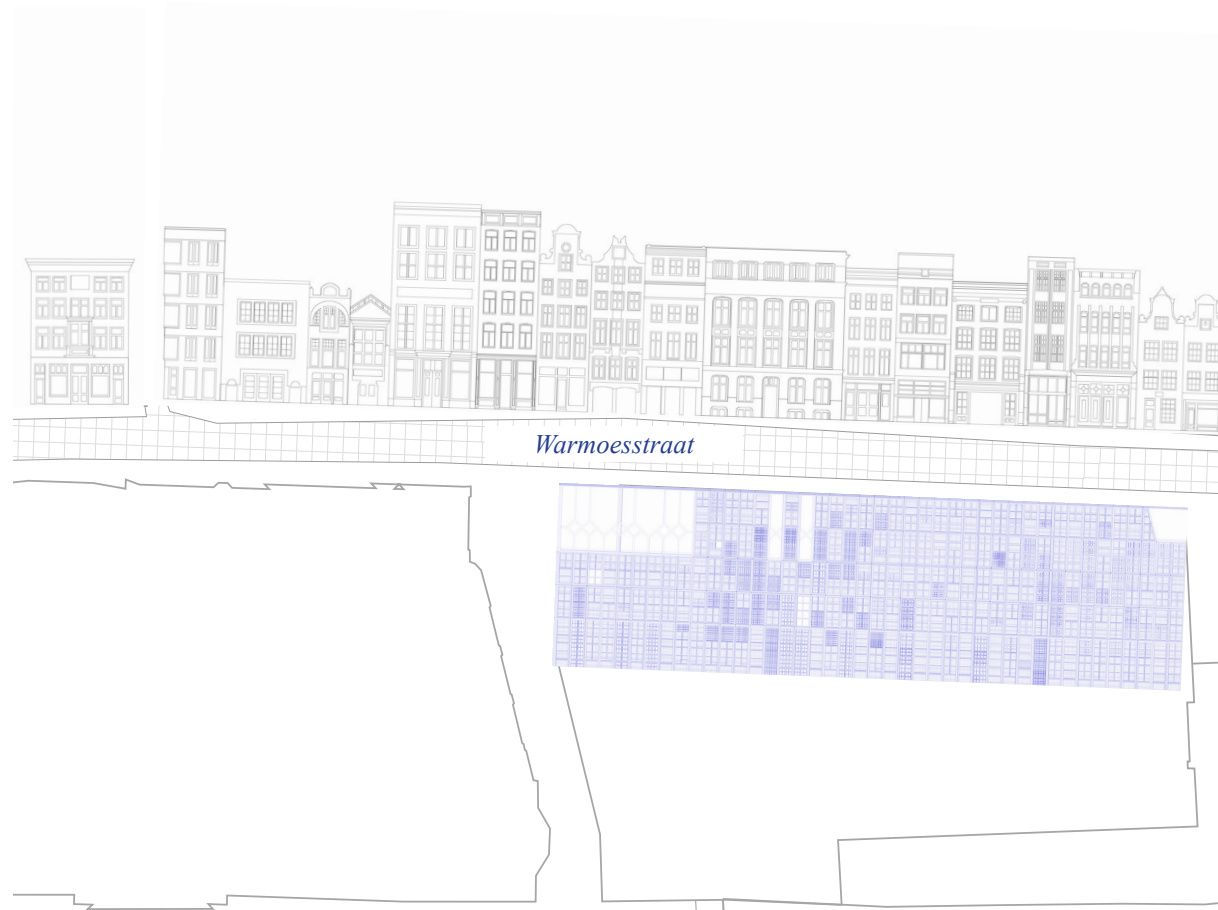


Elevation of buildings at the Beursplein with the elevation of the Q-Park





Aerial view of Q-Park from Warmoesstraat.



Elevation of buildings at the Warmoesstraat with the elevation of the Q-Park





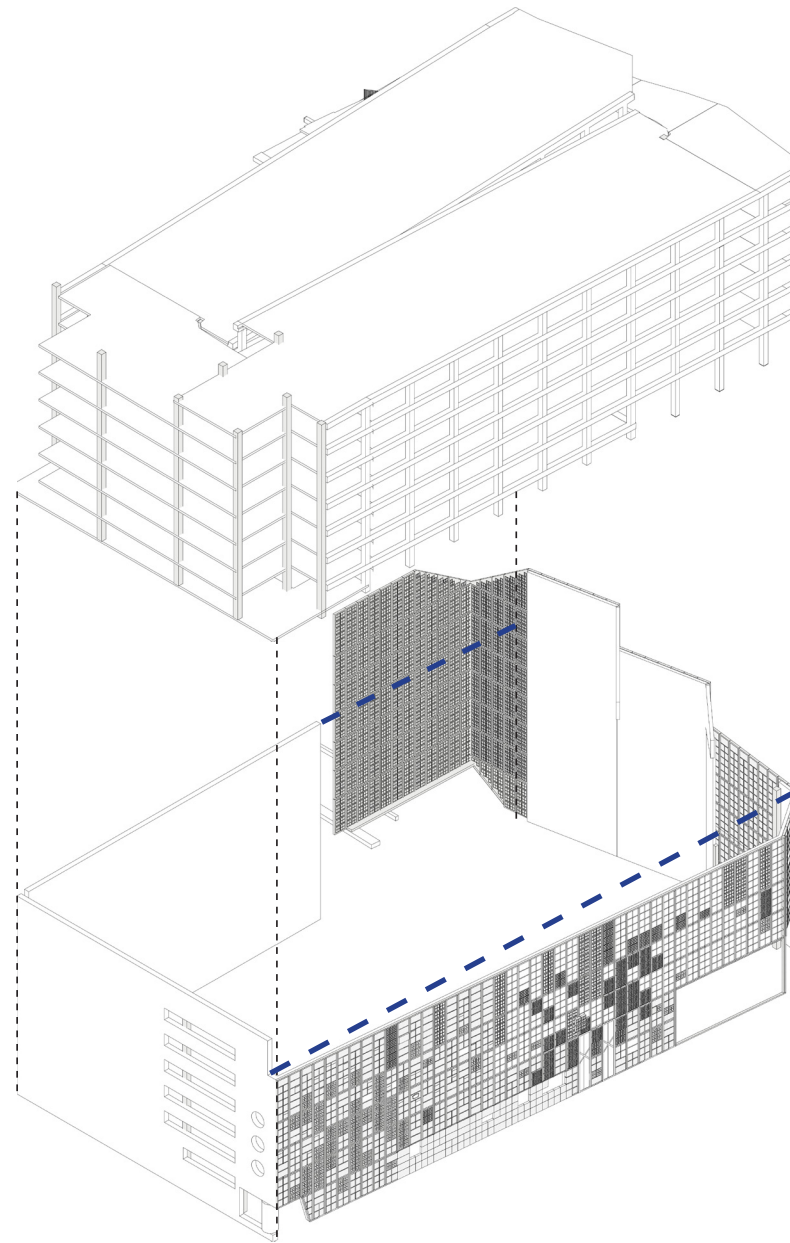
S.I. de Vries, Beursplein

Located where the current Q-Park is. This was a Jewish textile company, one of the largest employers in Amsterdam.



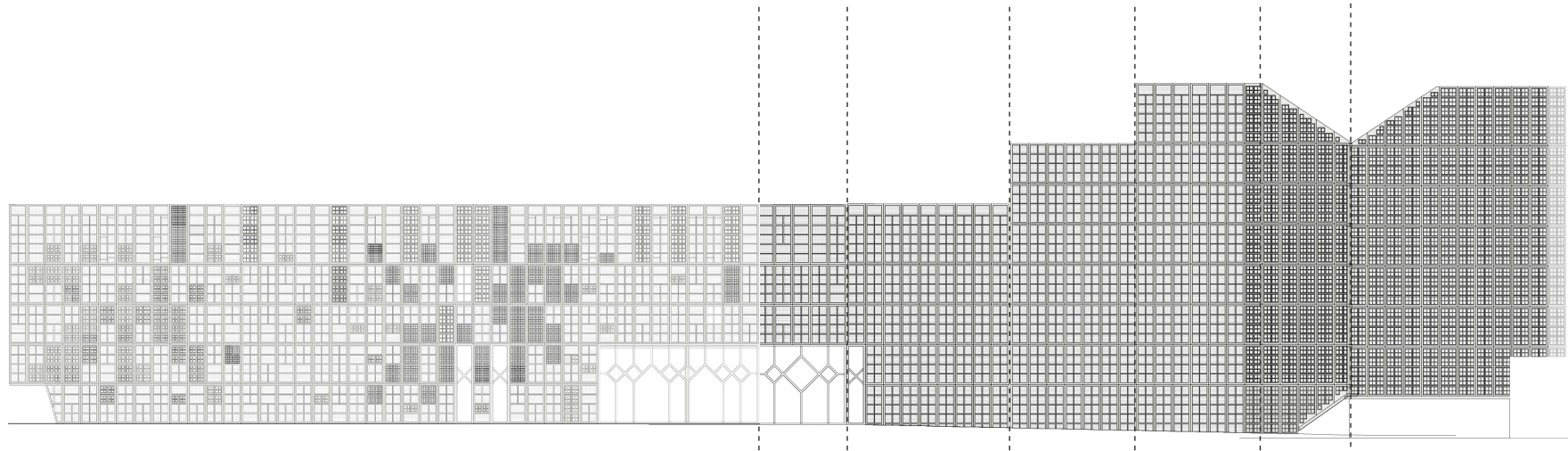
Q-Park facade at the Warmoesstraat with spolia of old S.I. de Vries building.
The spolia is only on the Warmoesstraat facade, small ornamental pieces become part of the facade placing them inside the new grid.

Existing building principles



Detached facades.

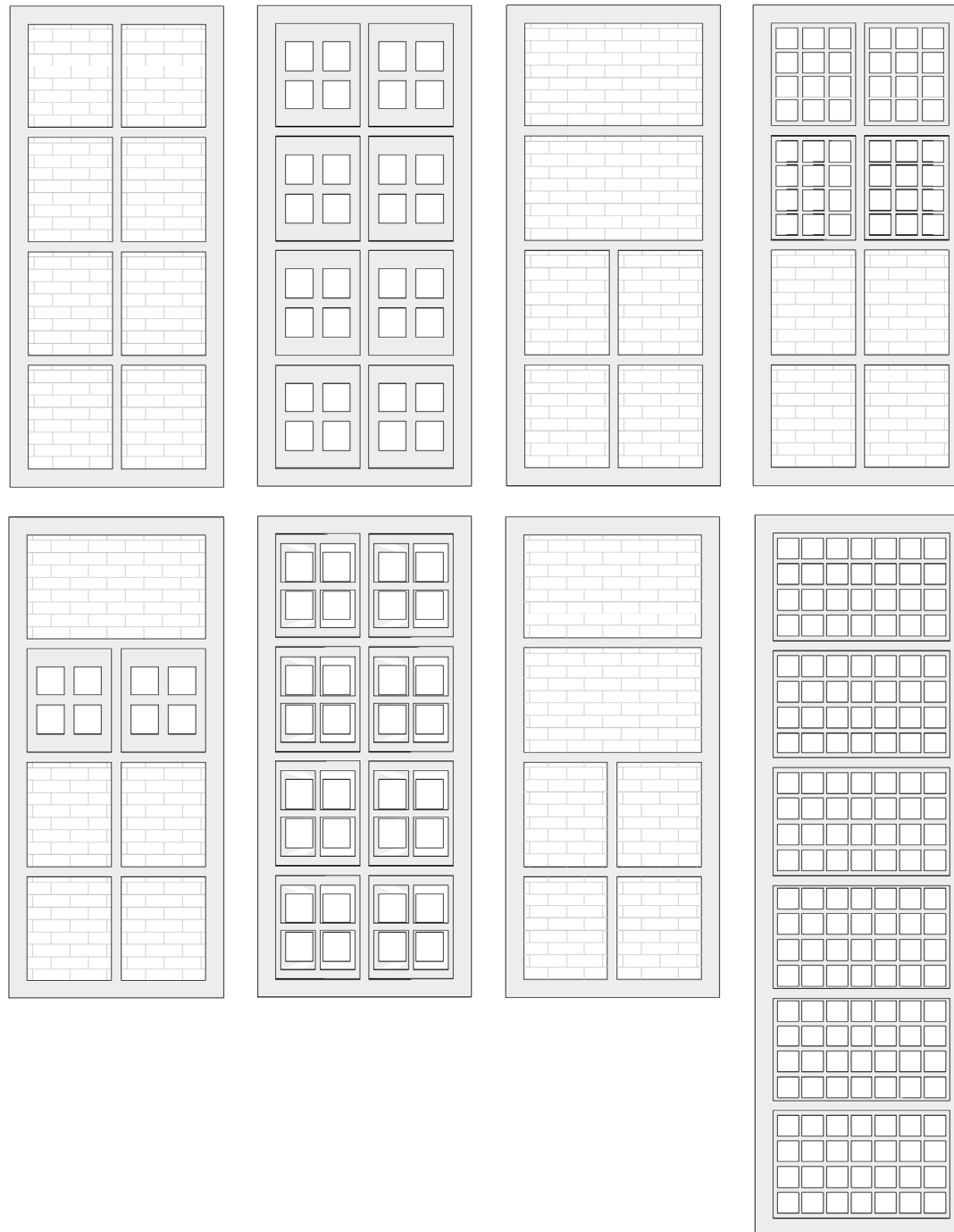
These detachments create outside in between spaces from where it's possible to see the buildings characteristics.



// TU Delft //

// MSc4 / P5 / Interiors Buildings Cities //

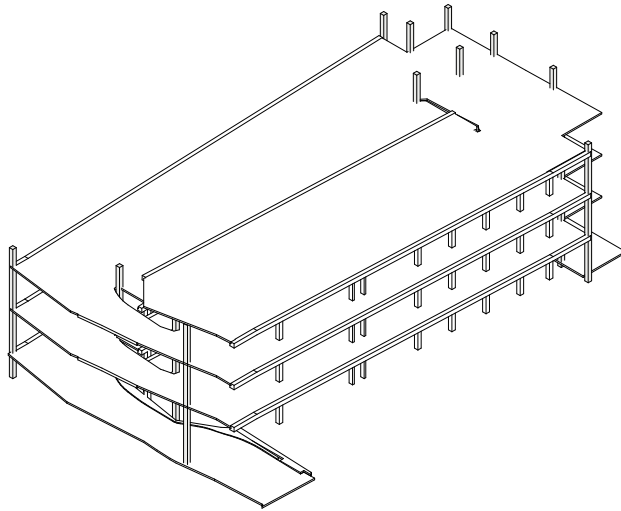
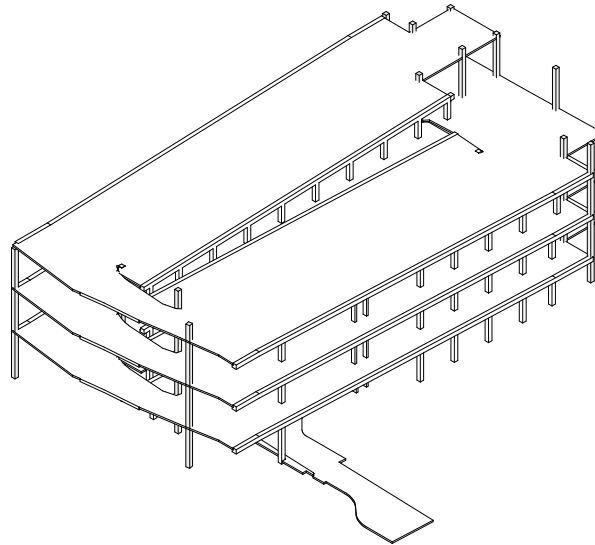
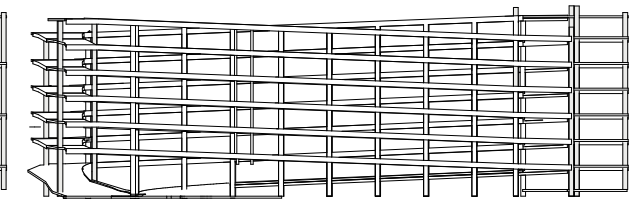
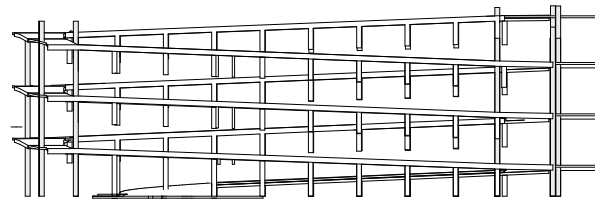
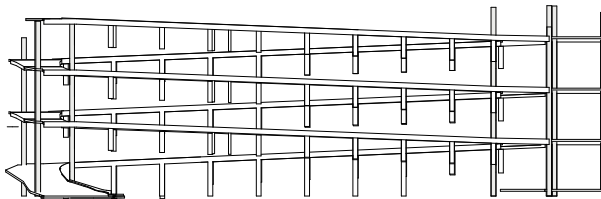
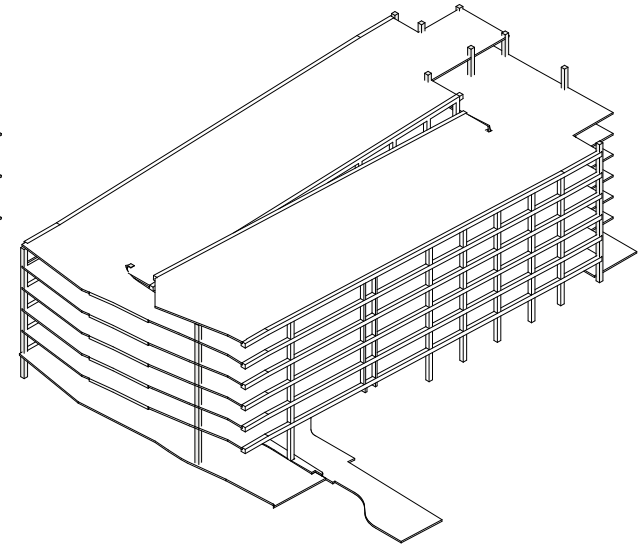
Elevation Facades



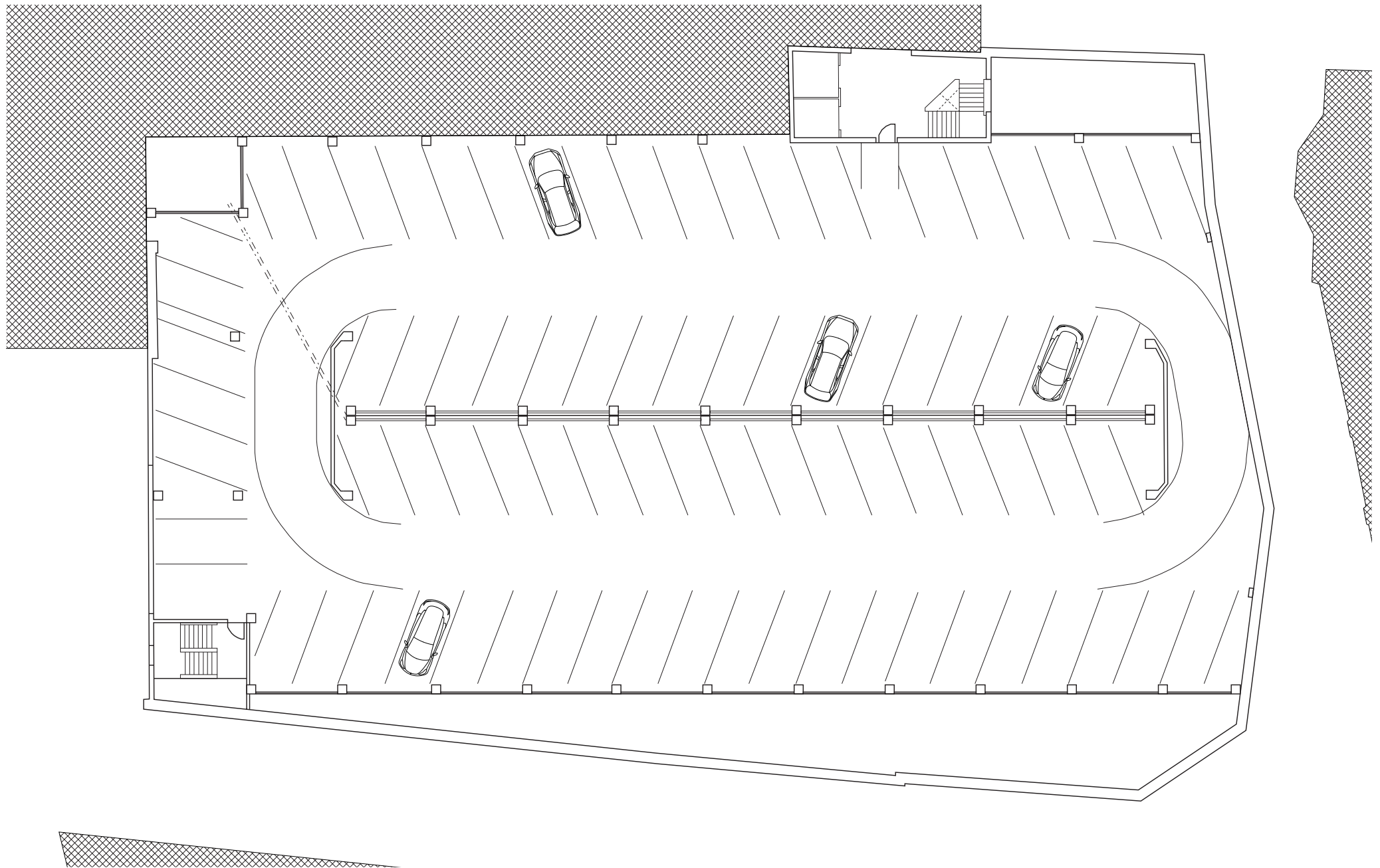
Prefab facade components



Photograph by Frans van Gool, Sicily, 1984.

Ramp 1*Ramp 2**Ramp 1+2*

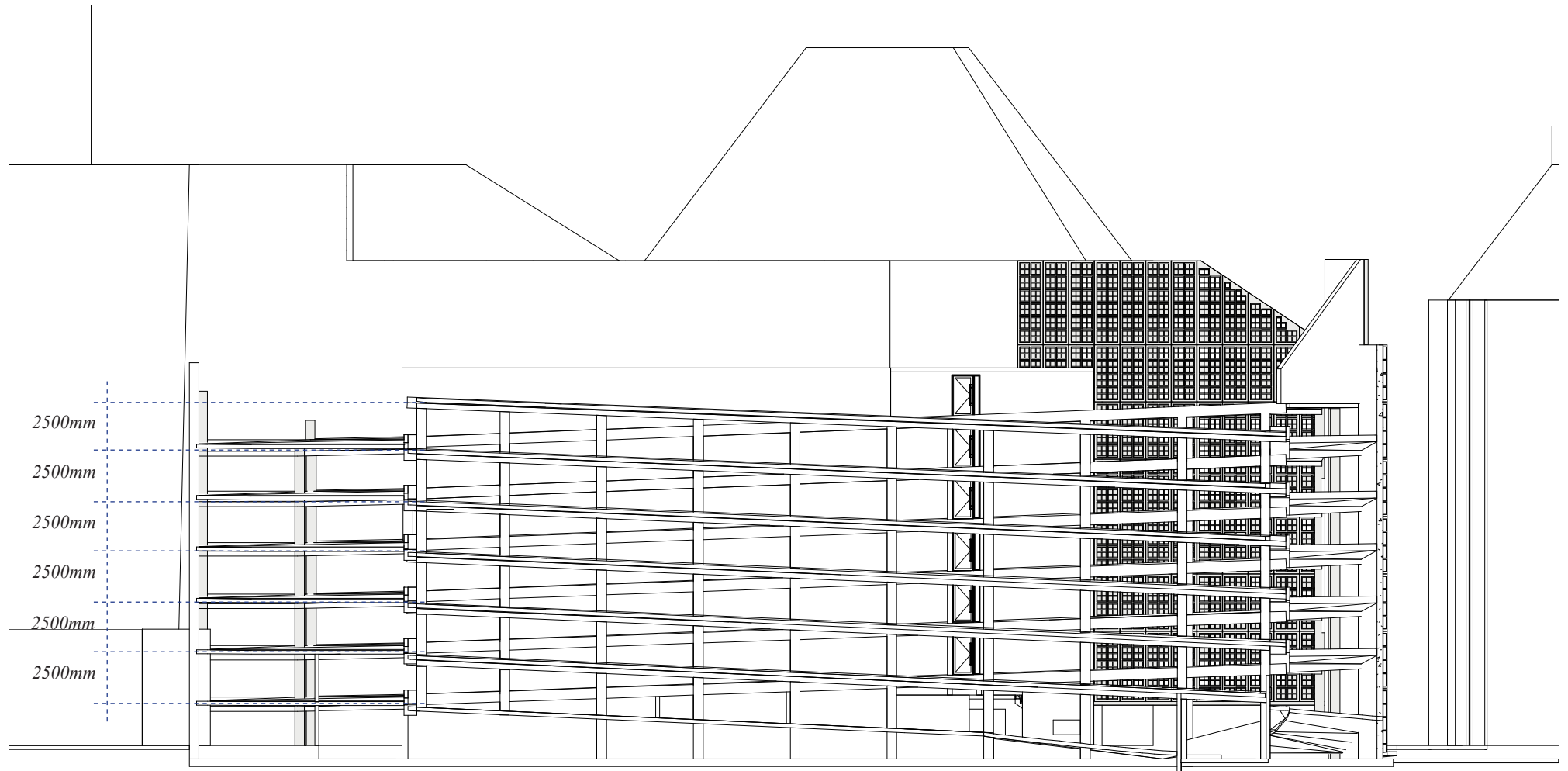
The building is made out of two ramps that revolve around each other.



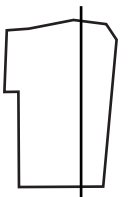
Q-Park existing plan



1:200



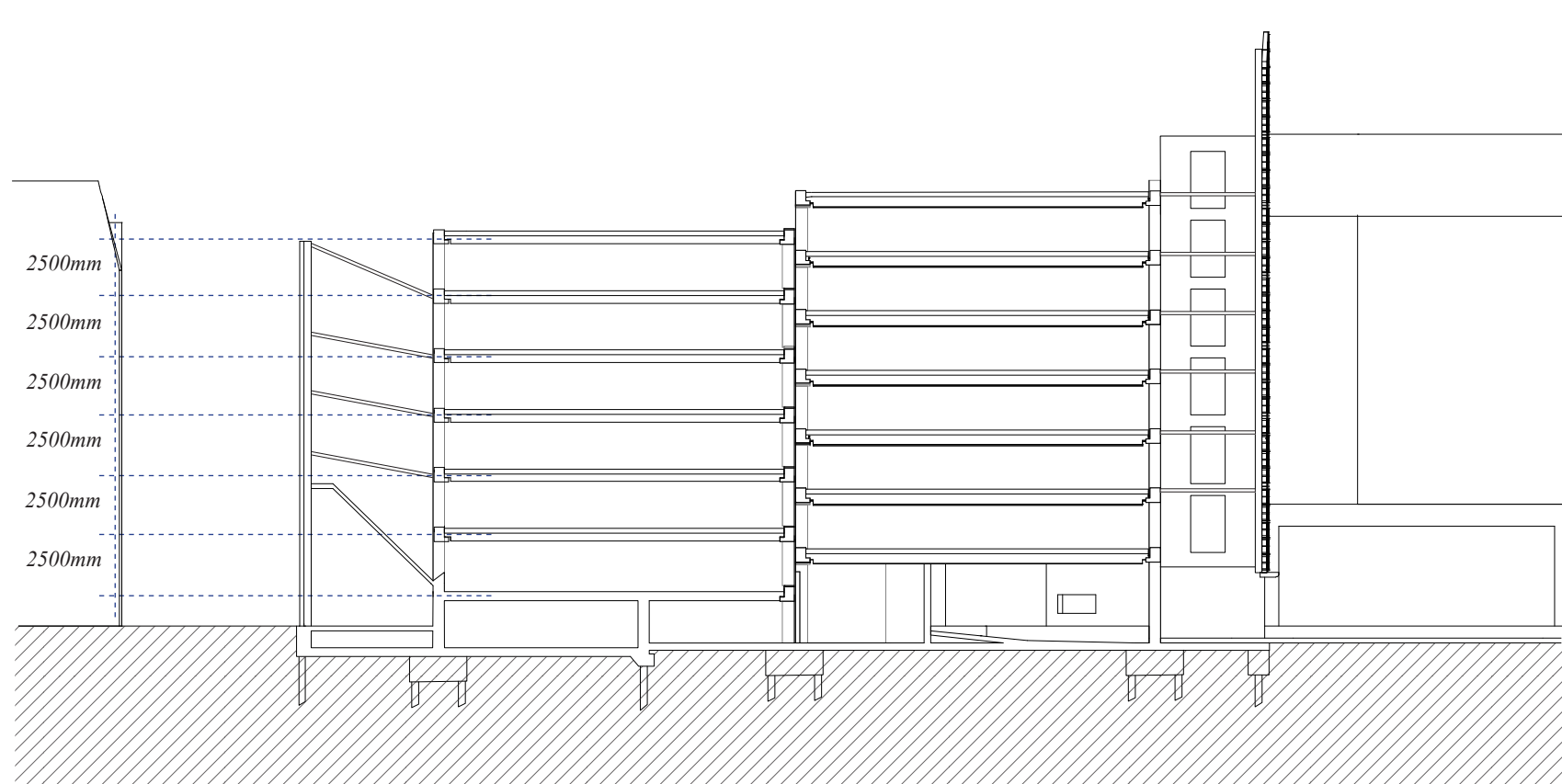
Q-Park existing section



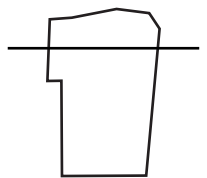
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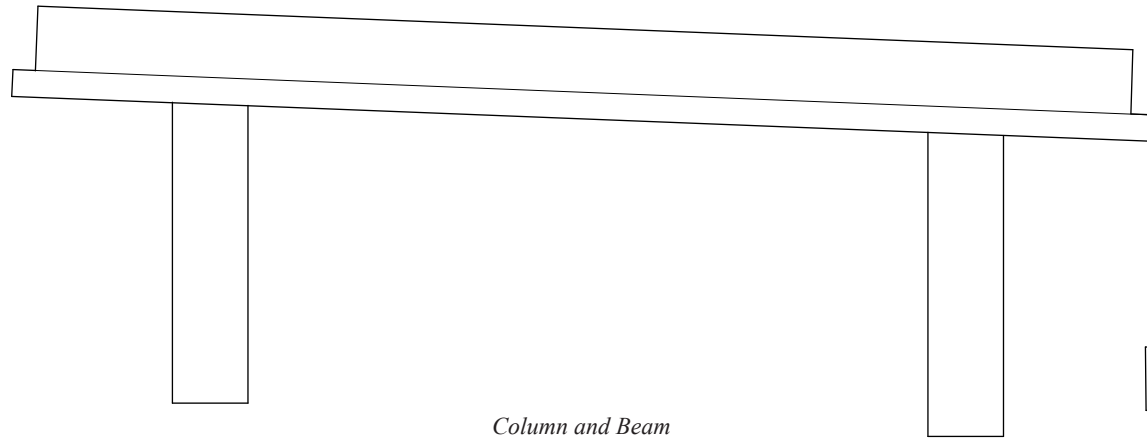
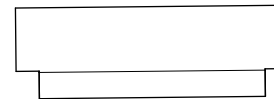
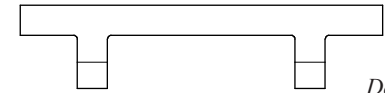
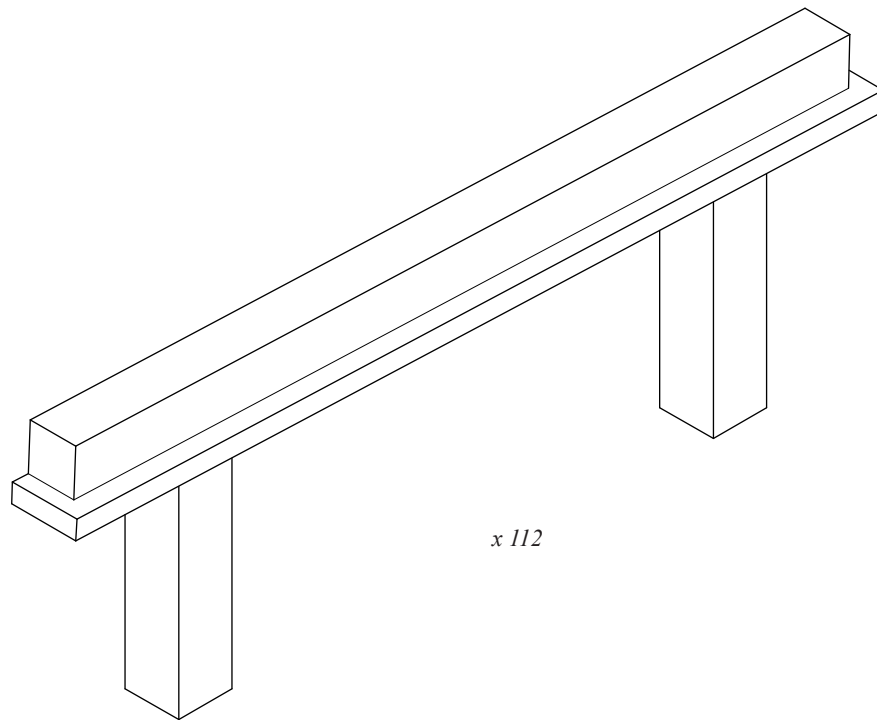
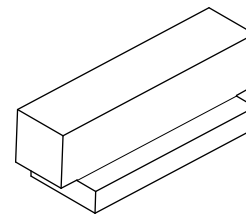
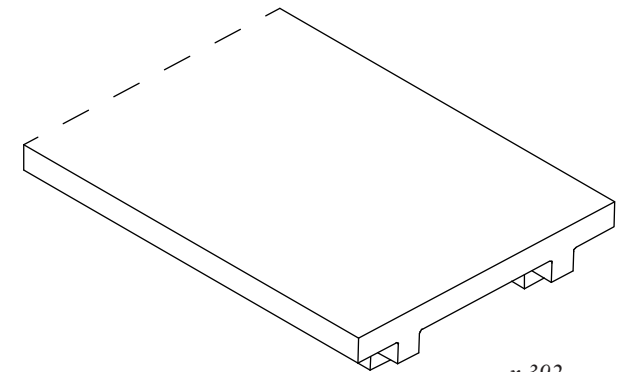
View from the Q-park overlooking Amsterdam.



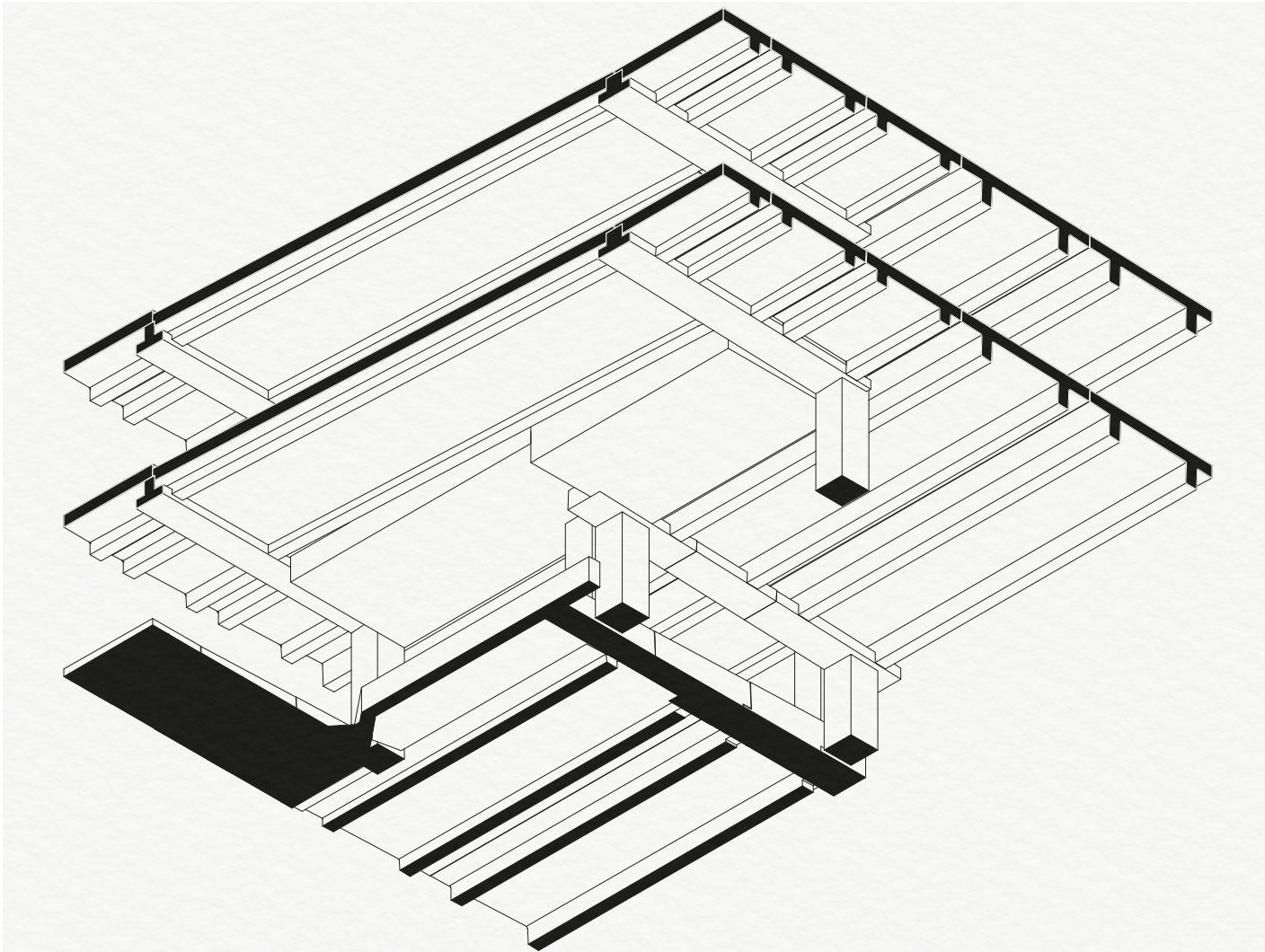
Q-Park existing section



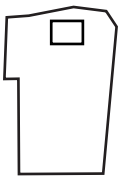
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*Column and Beam**Beam**Double T Beam**x 112**x 216**x 392*

Prefab Structural Elements.

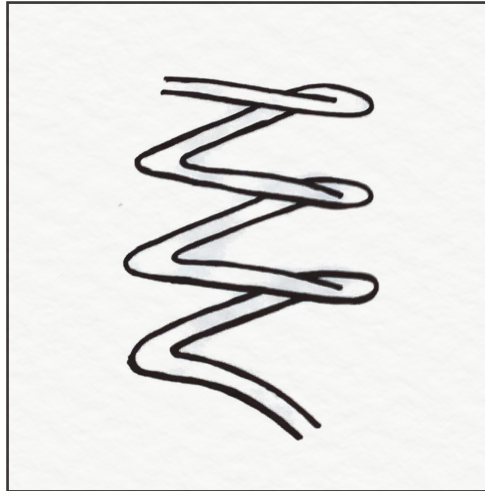


Worm's eye axonometric projection of a fragment of the structure.

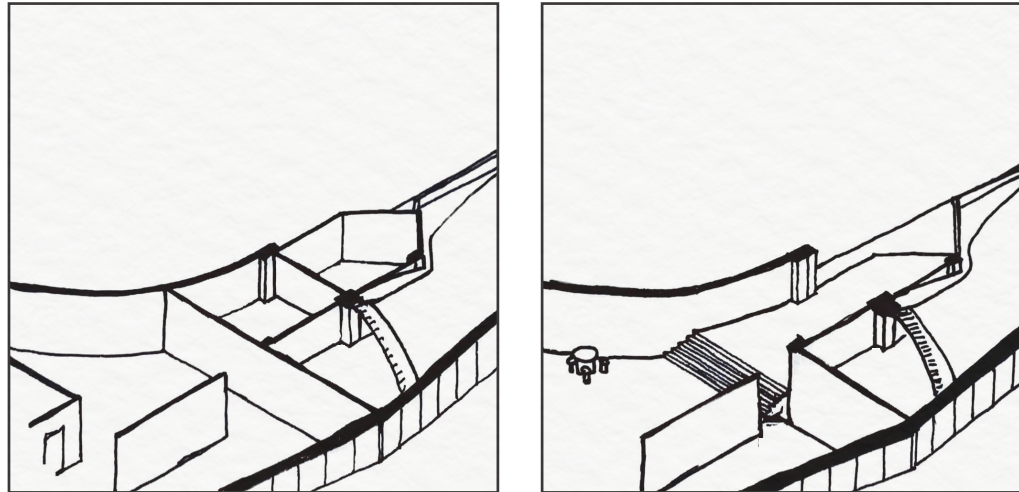


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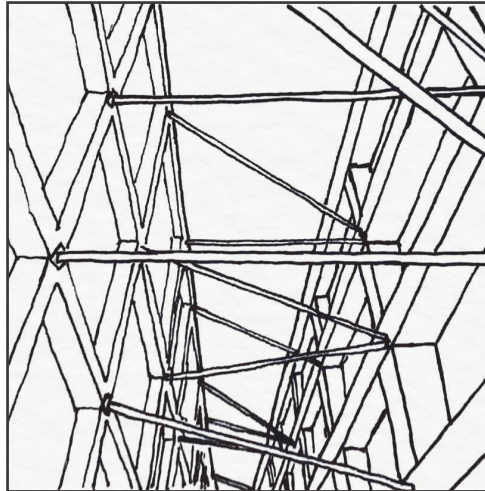
New building principles



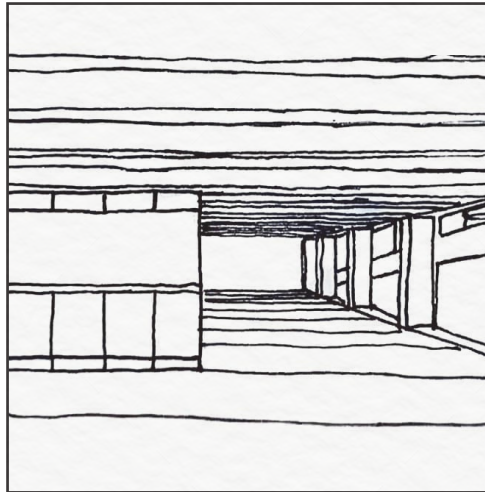
Viewing the building as a continuous landscape.



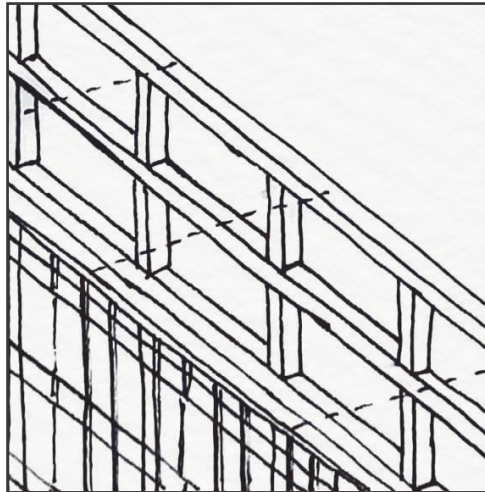
Creating by removing.



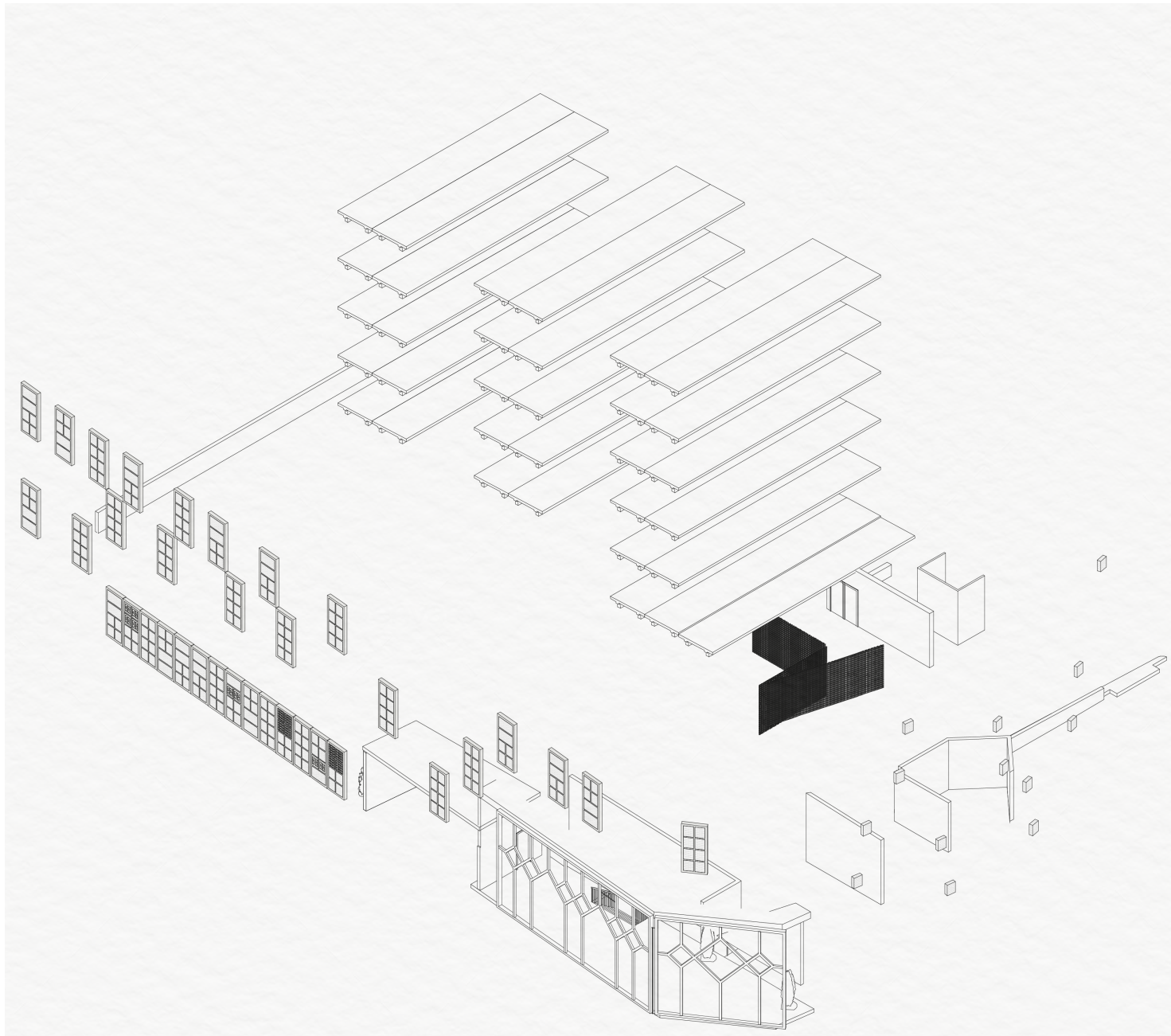
Exposing the existing visible character of the building.



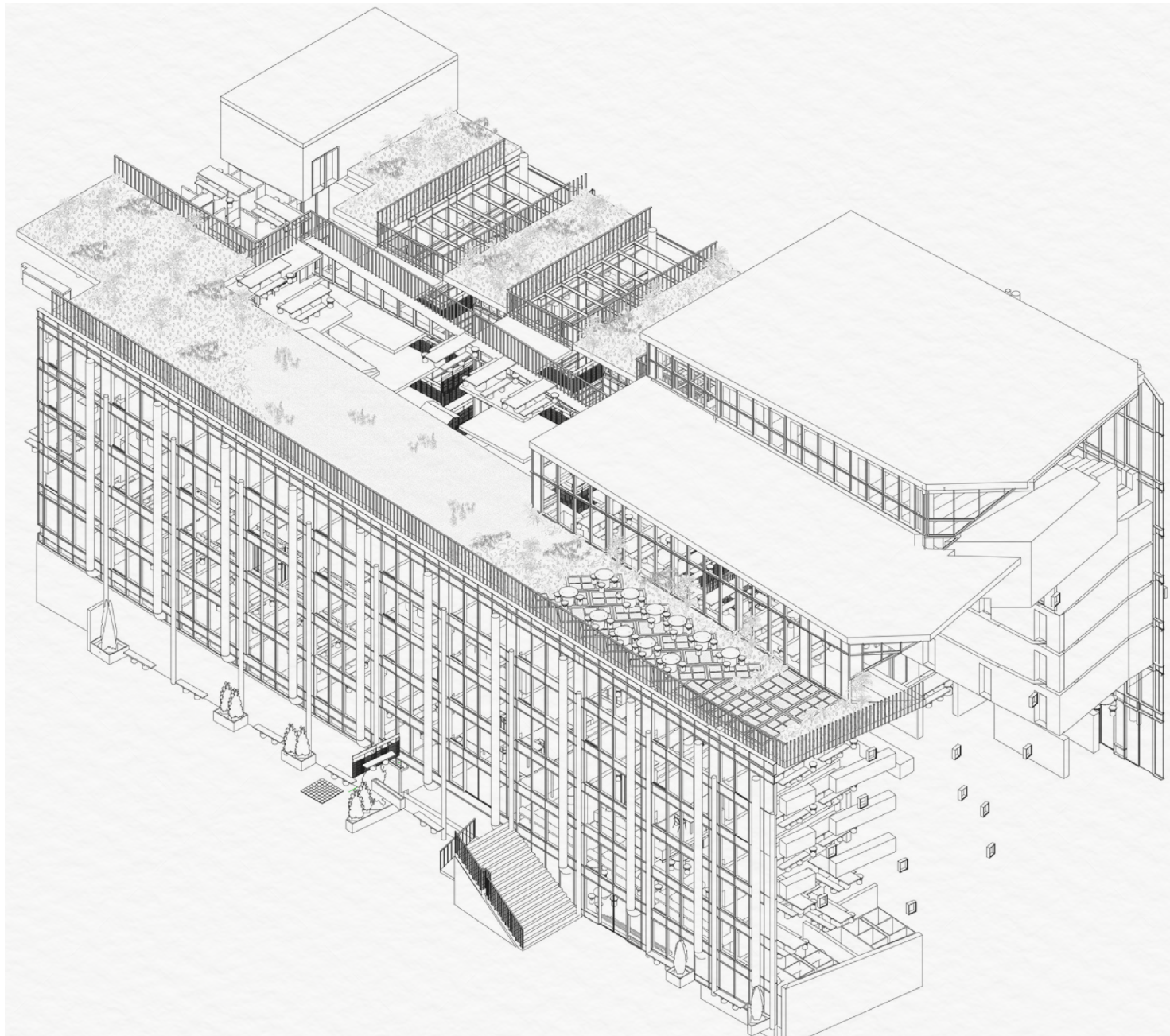
Low-Tech expression.



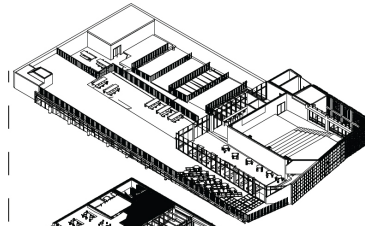
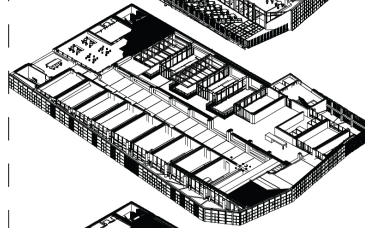
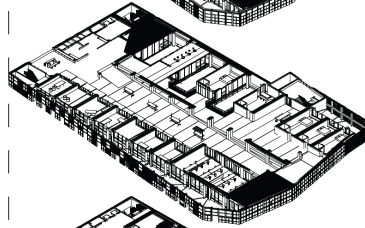
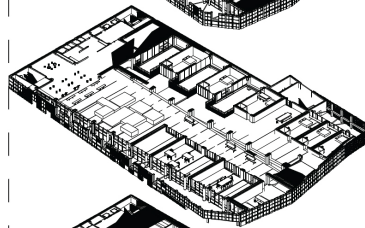
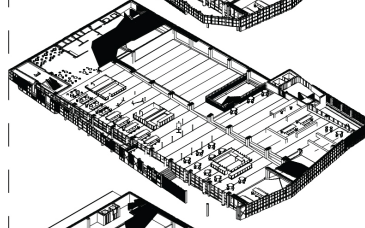
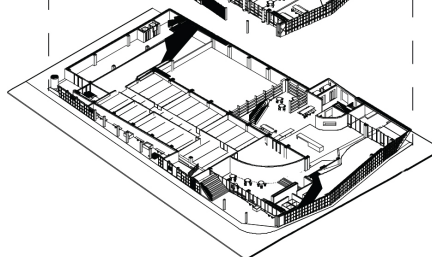
Supplementing the existing with new layers.



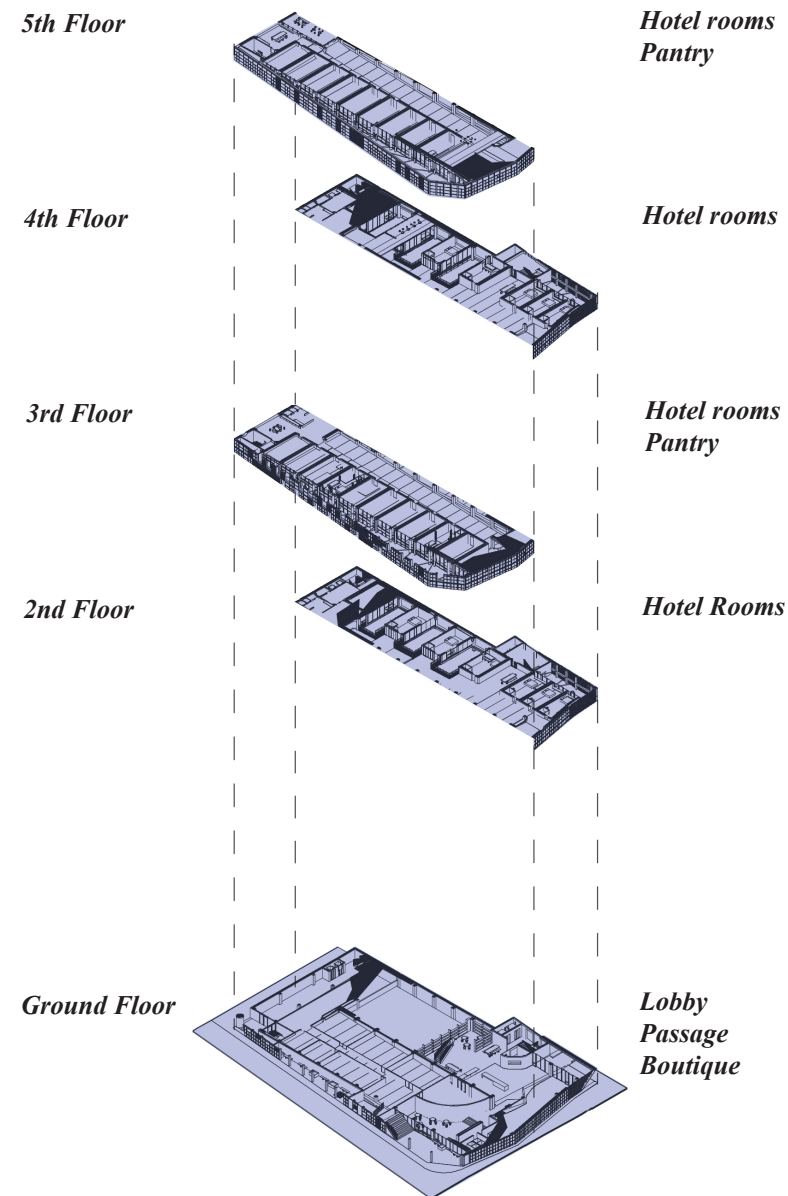
Axonometric showing all removed elements.



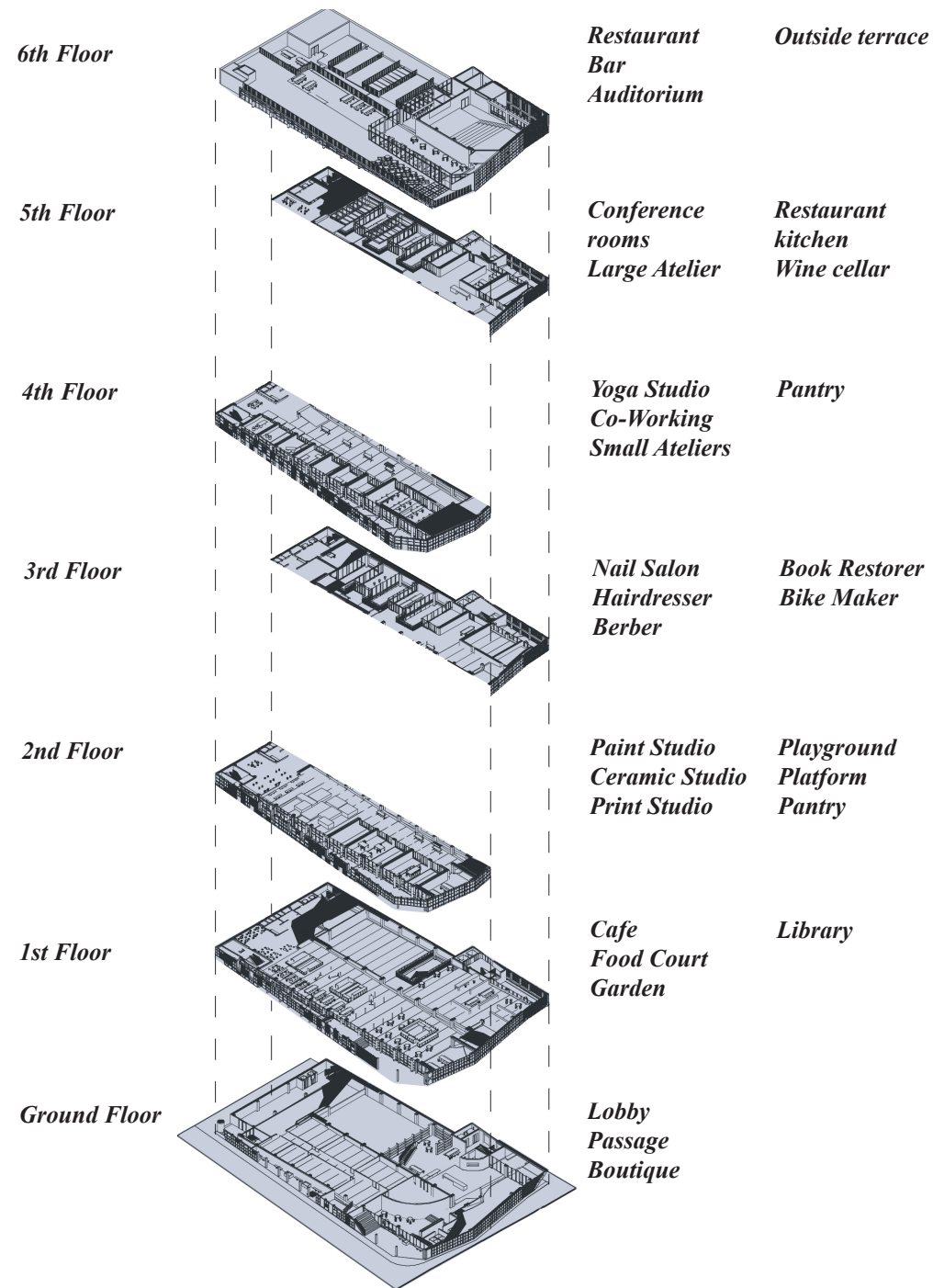
Axonometric showing all added elements.

6th Floor*5th Floor**4th Floor**3rd Floor**2nd Floor**1st Floor**Ground Floor*

The hotel and other functions are divided per opposing ramp.

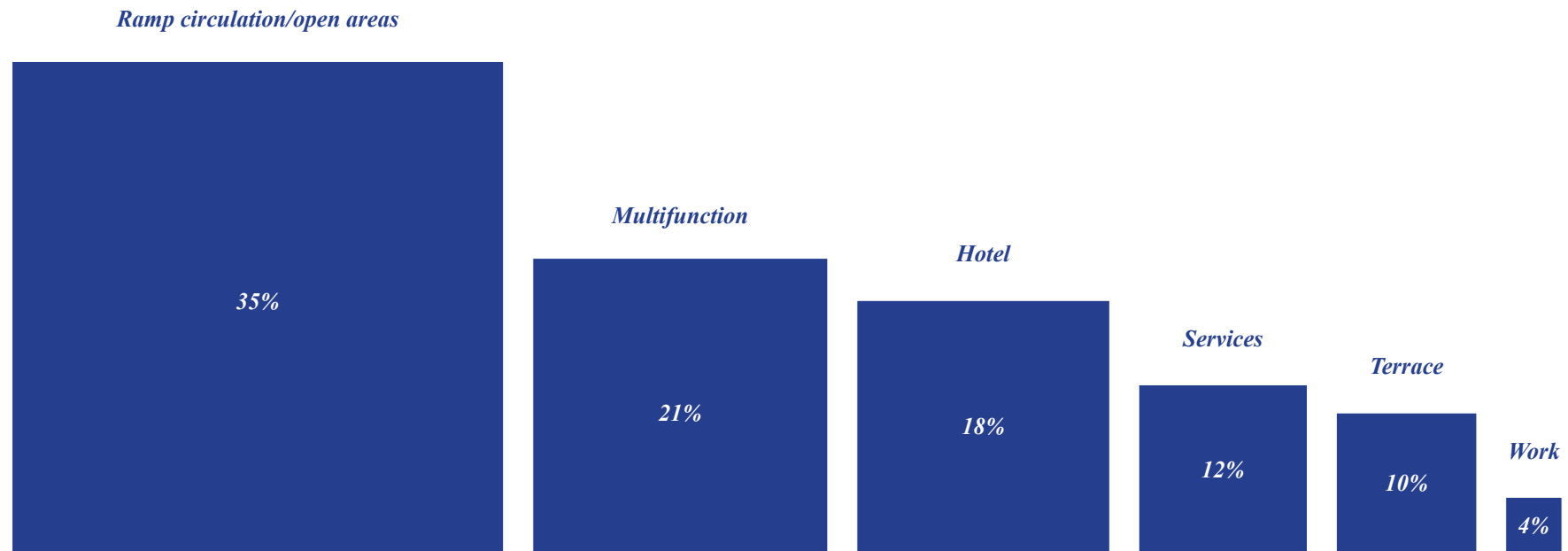


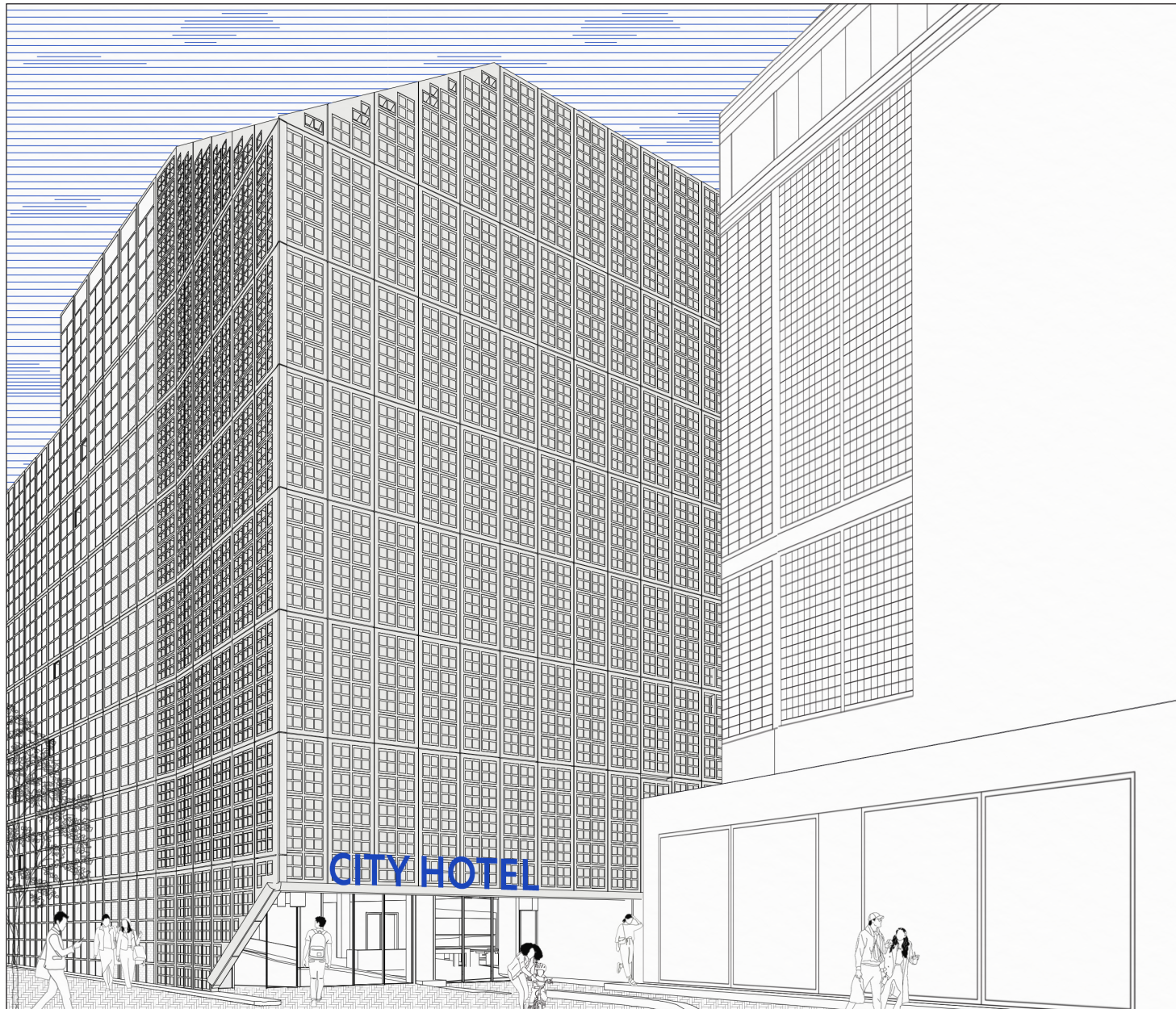
The hotel ramp.



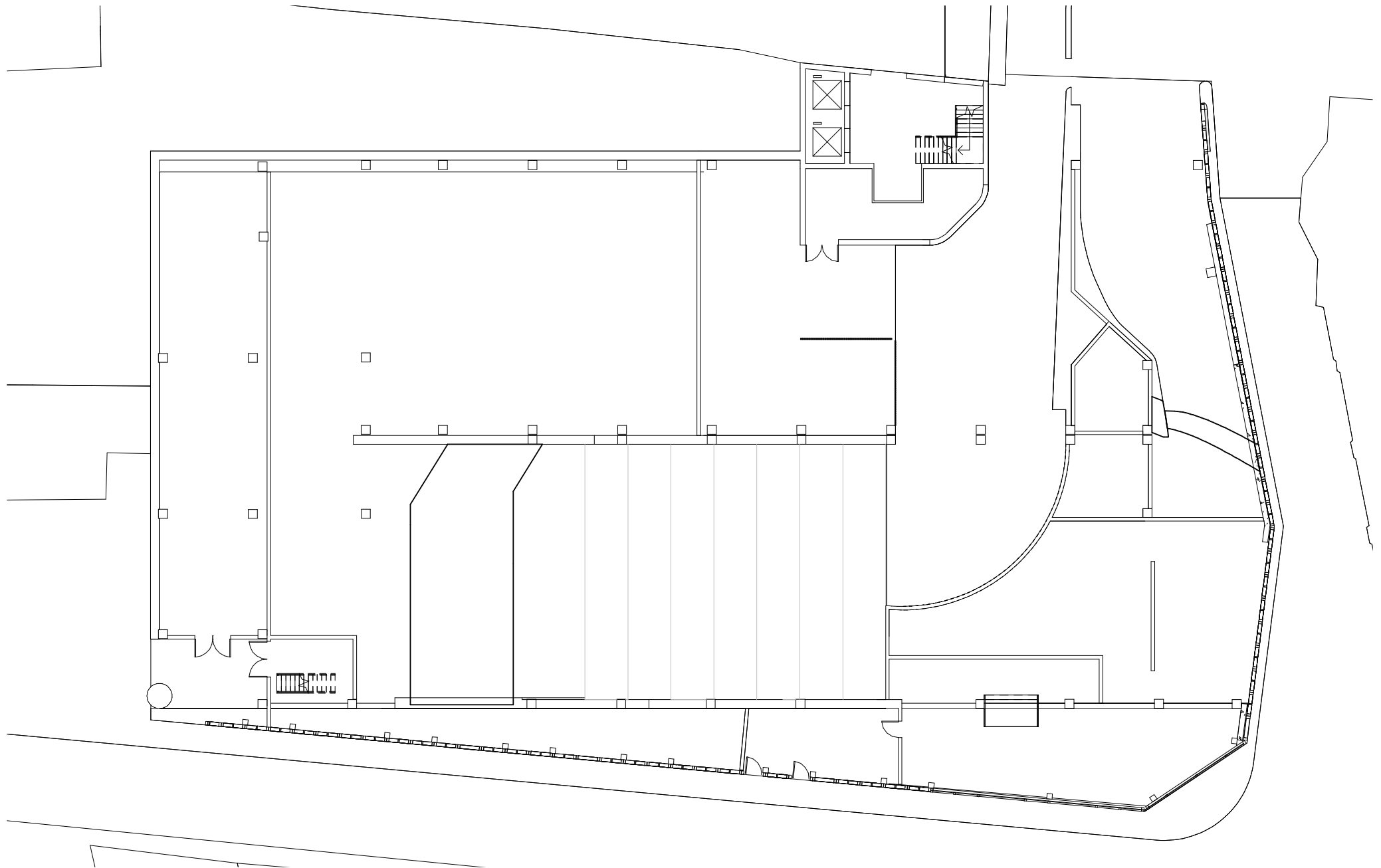
The multifunction ramp.

Total 12000 m²





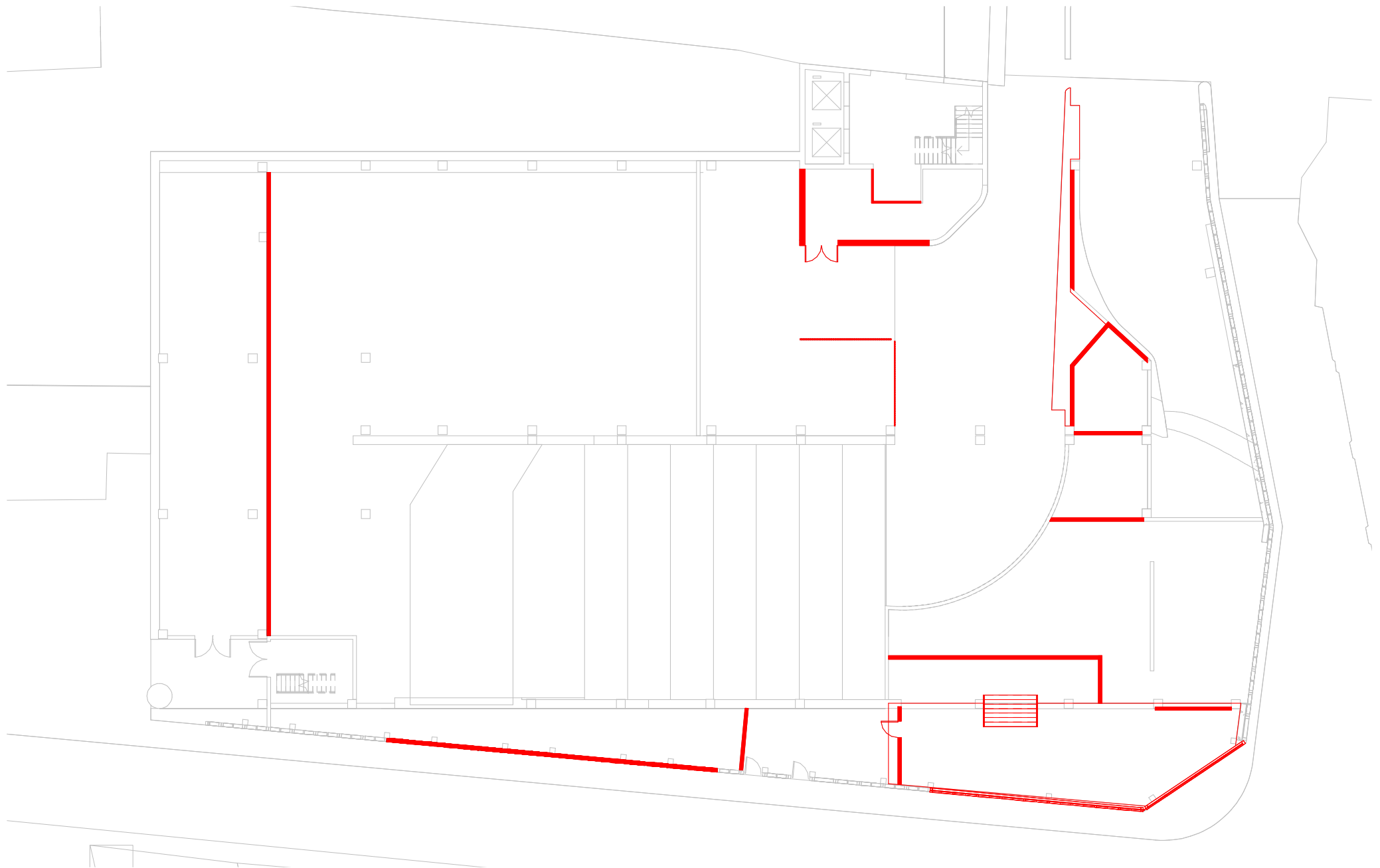
Perspective view of Q-park from Beursplein.



Q-Park existing plan ground floor.



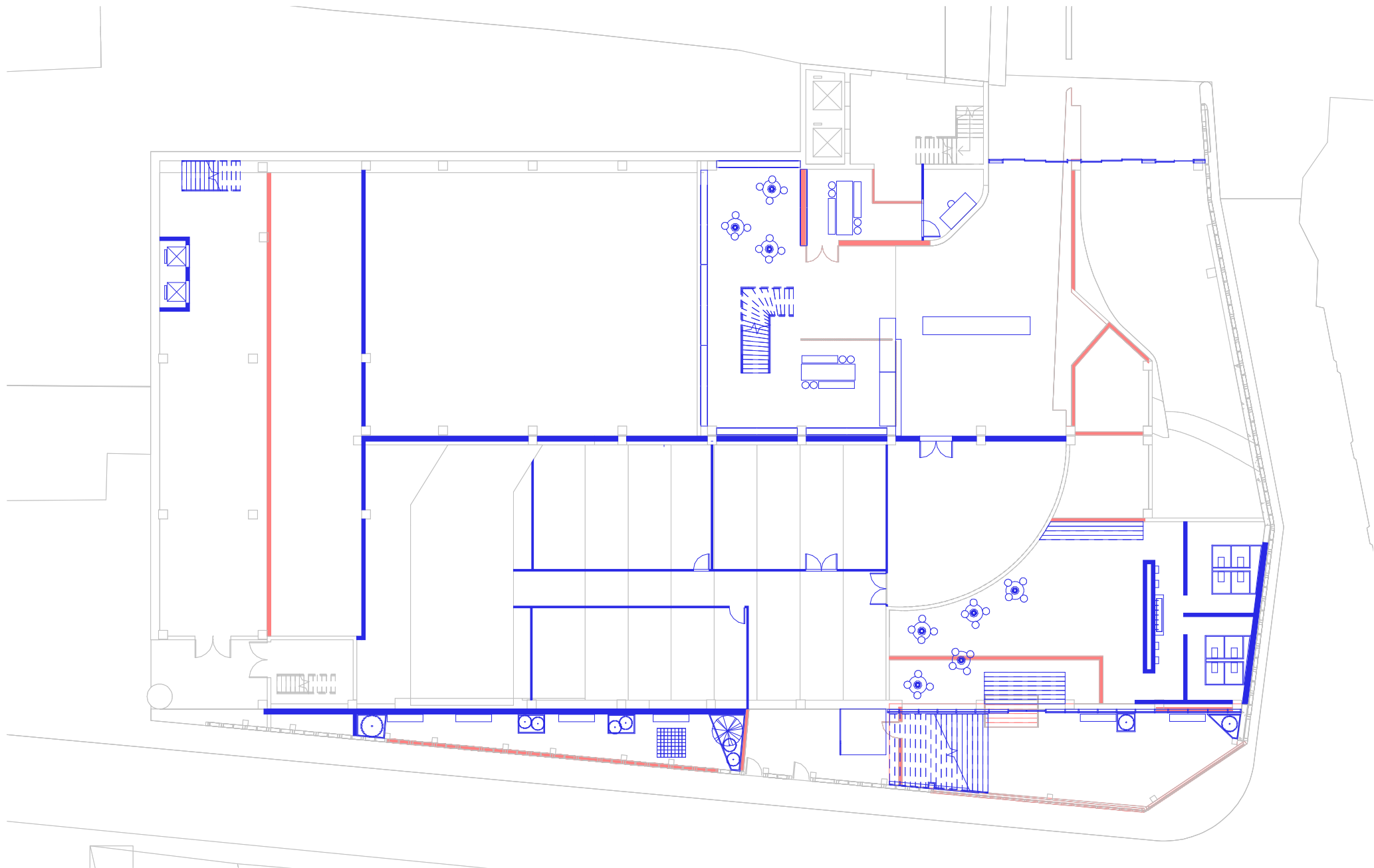
1:200



Q-Park removed plan ground floor.



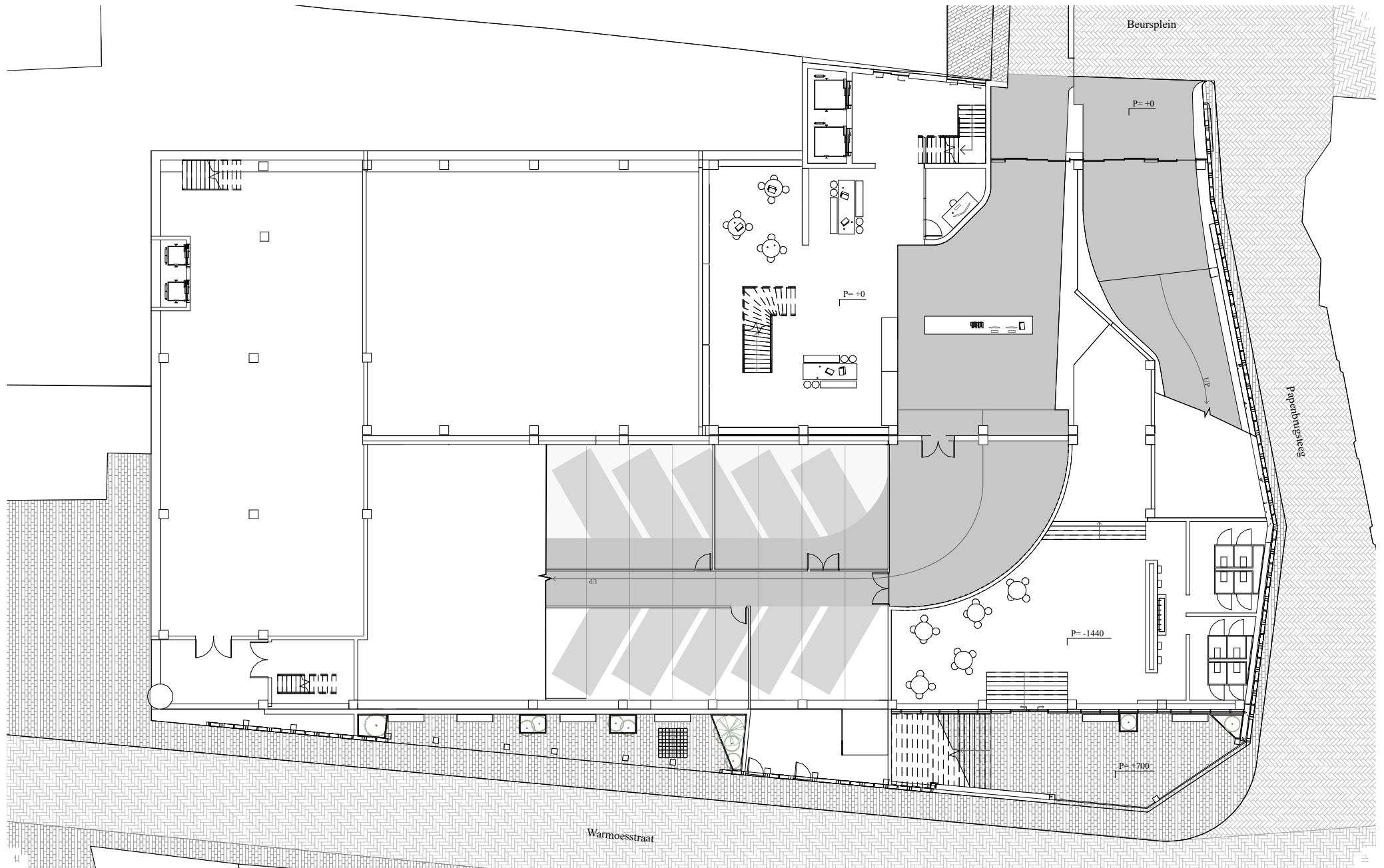
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Q-Park added + removed plan ground floor.

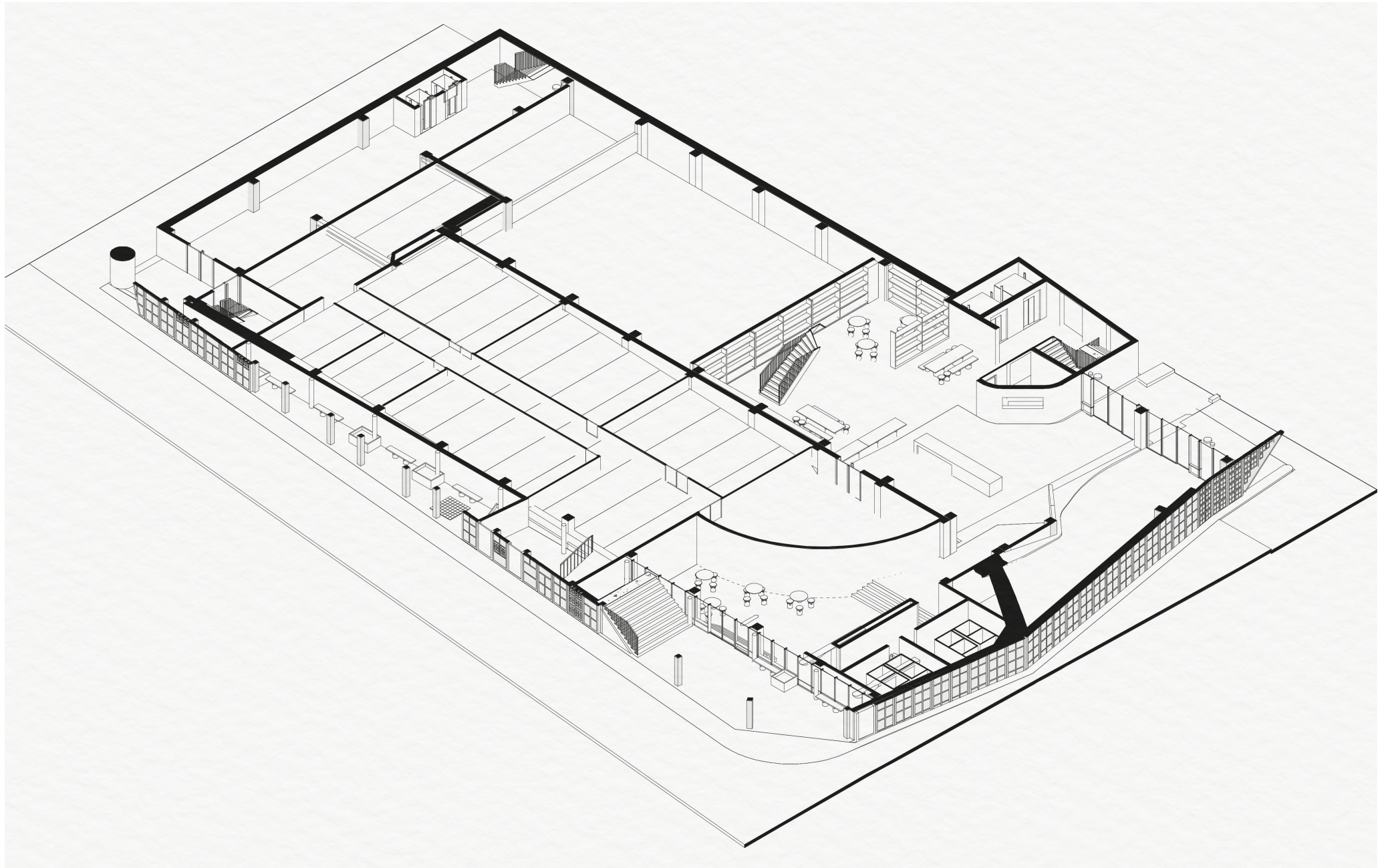


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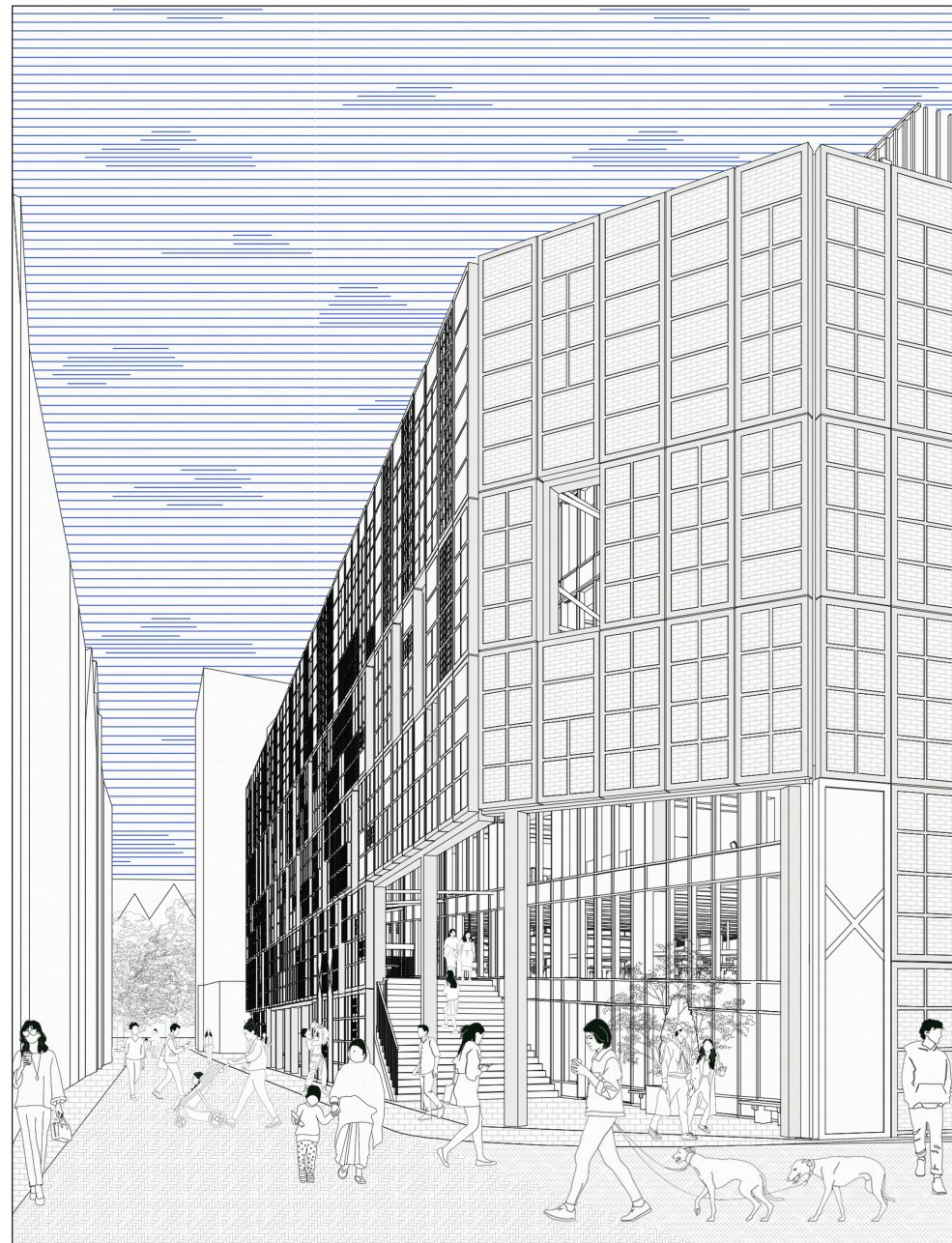


Q-Park existing plan ground floor.

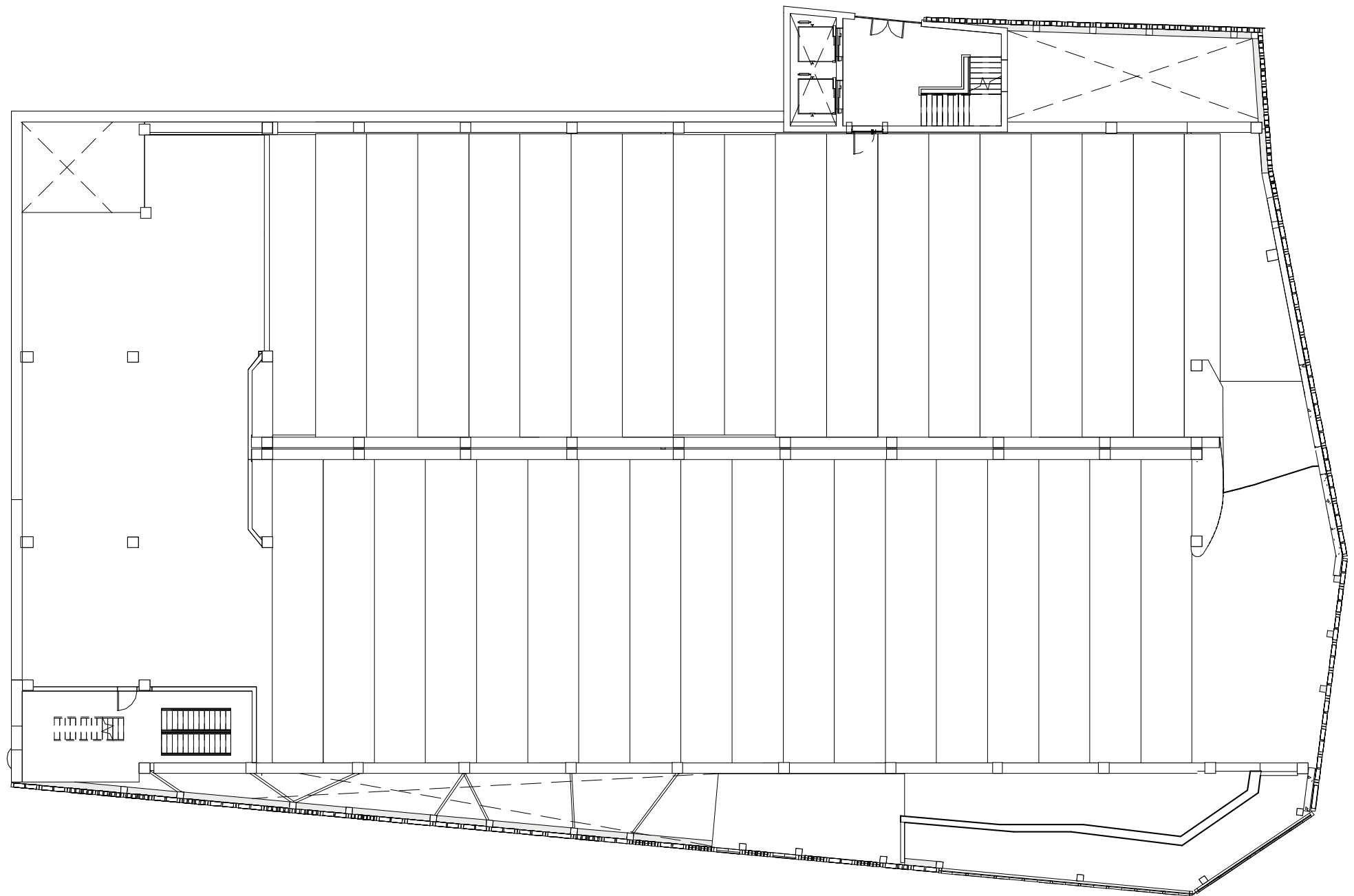




Axonometric 1st floor.



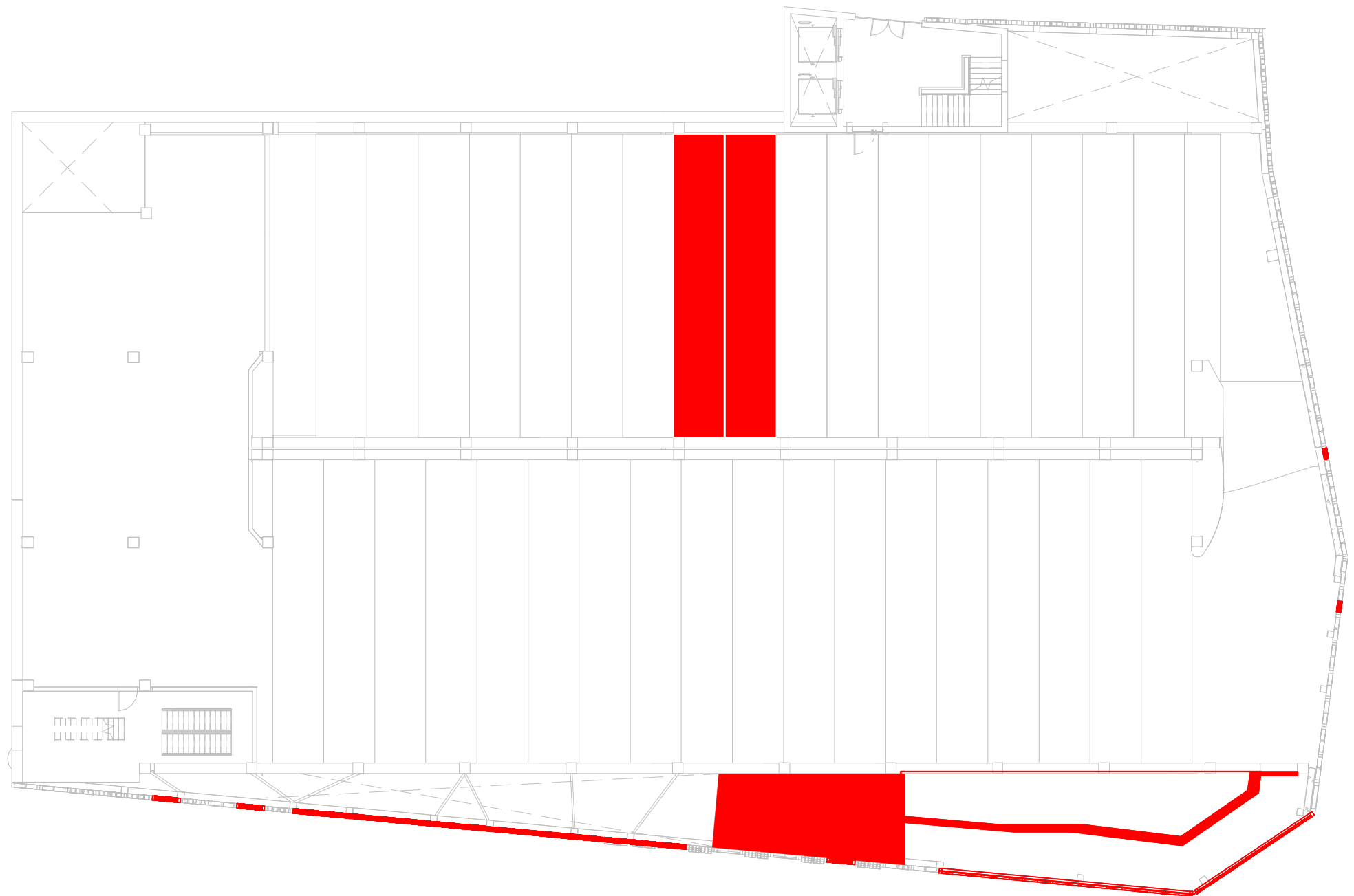
Perspective view of Q-park from Warmoesstraat.



Q-Park existing plan 1st floor.



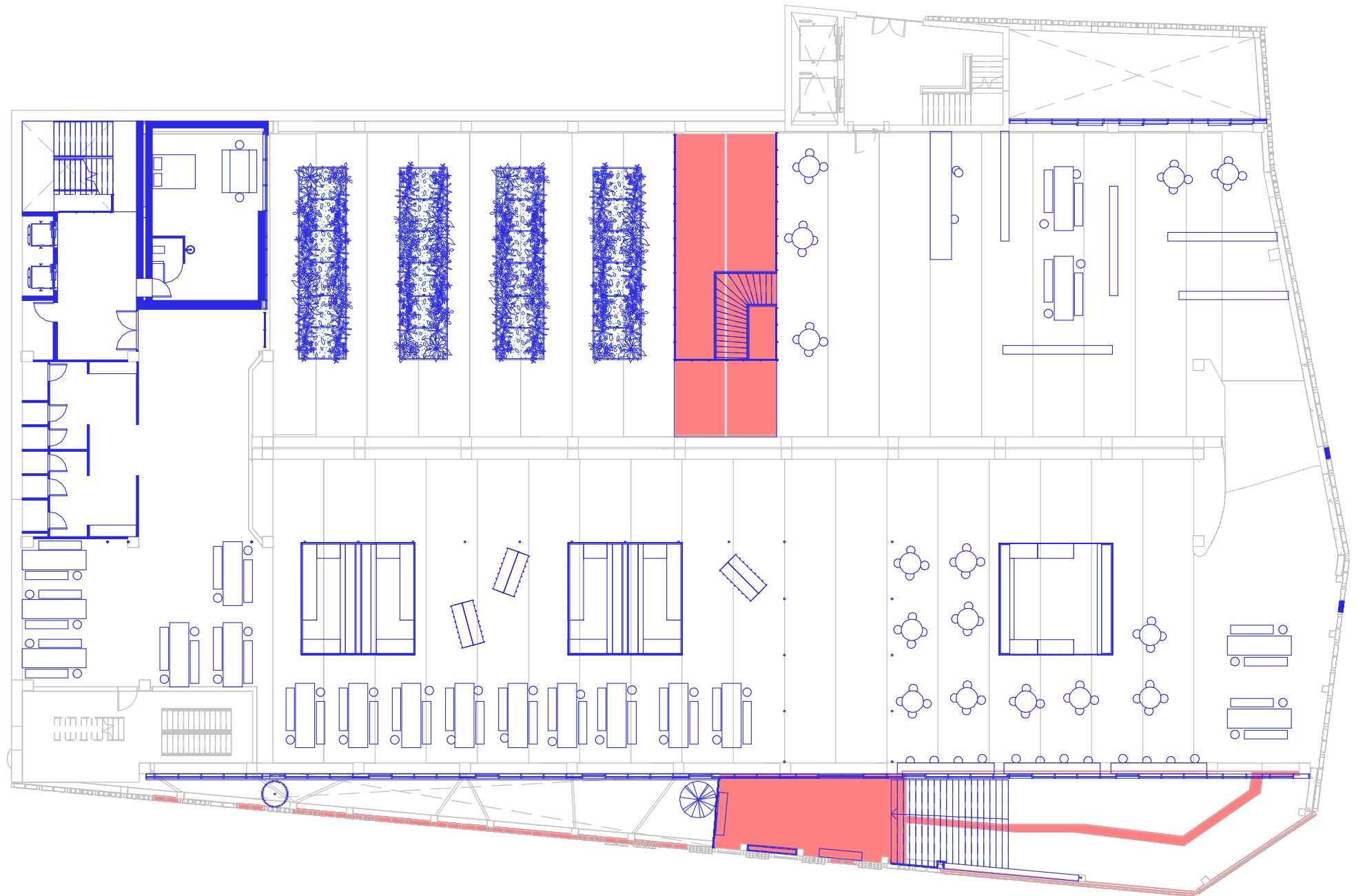
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Q-Park removed plan 1st floor.



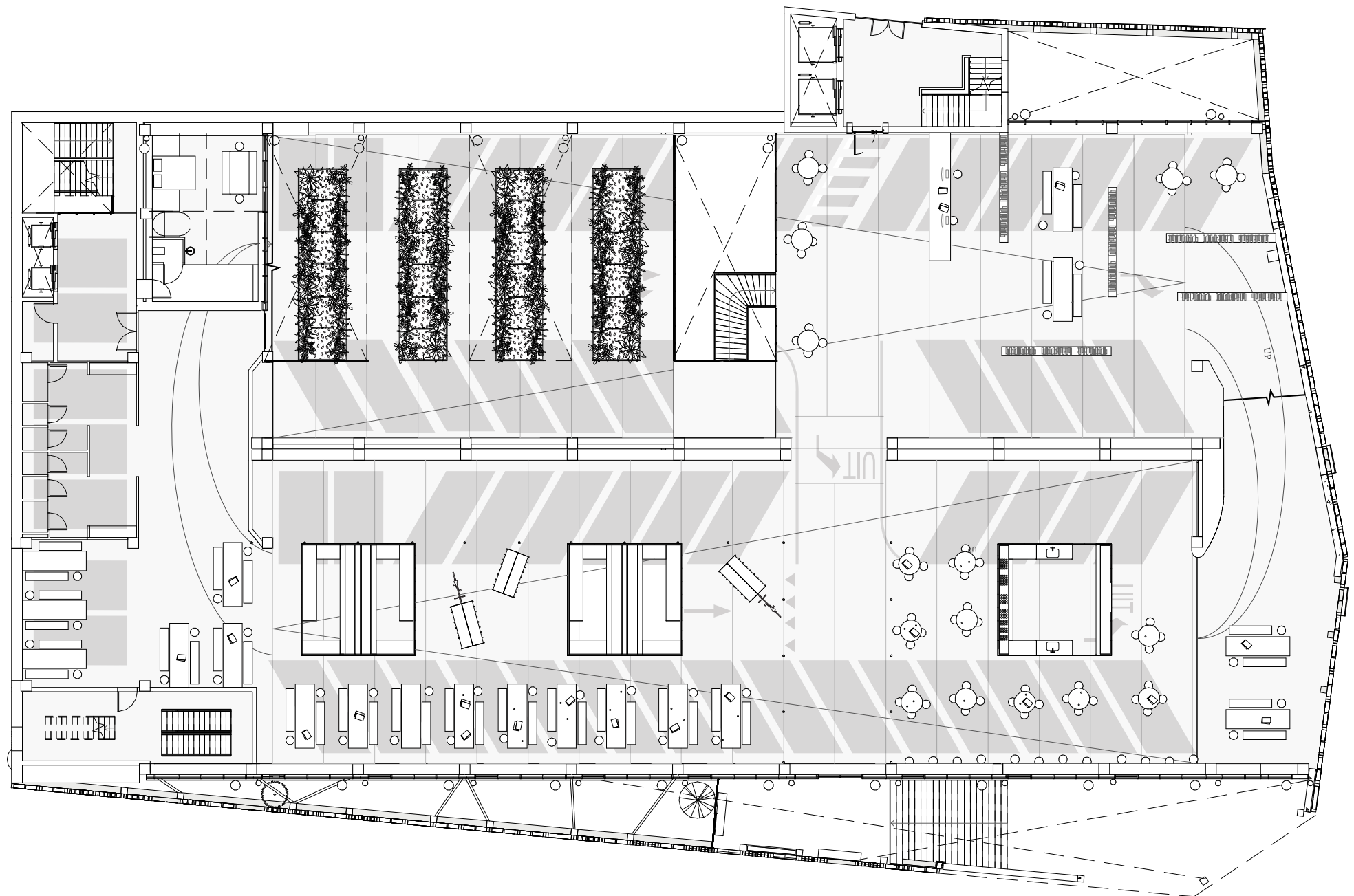
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Q-Park added + removed plan 1st floor.

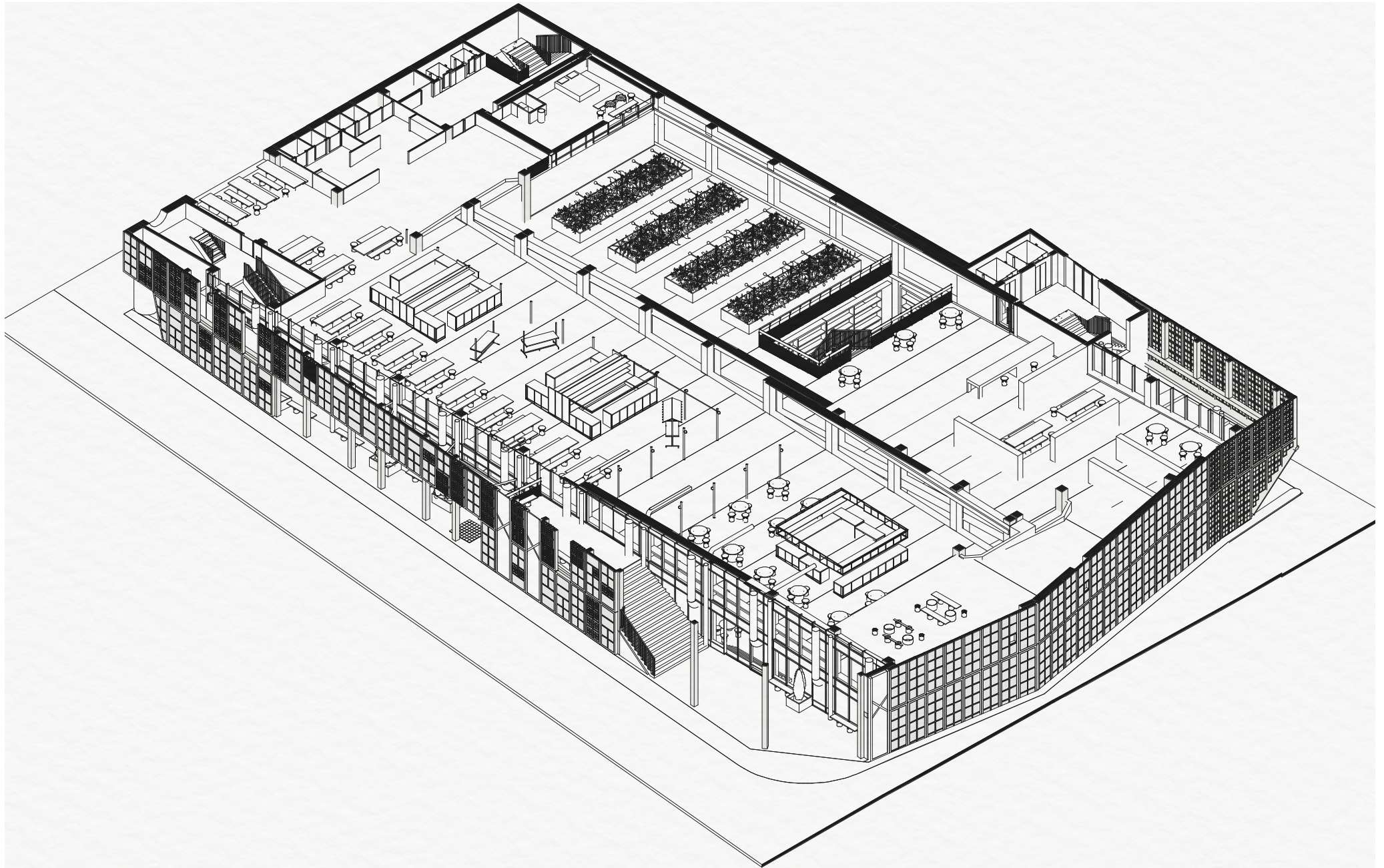


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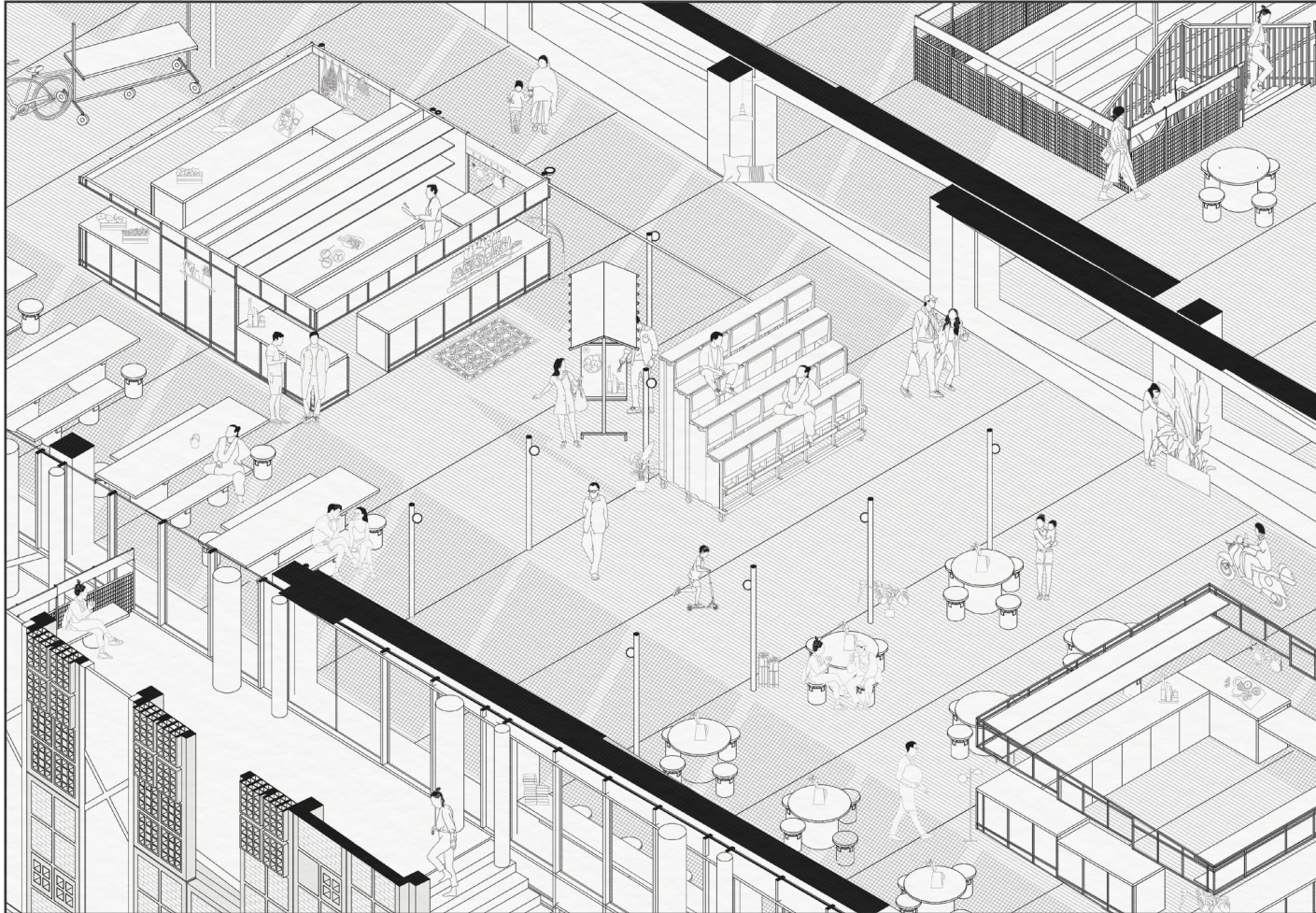


Q-Park new plan 1st floor.





Axonometric 1st floor.



Axonometric action 1st floor



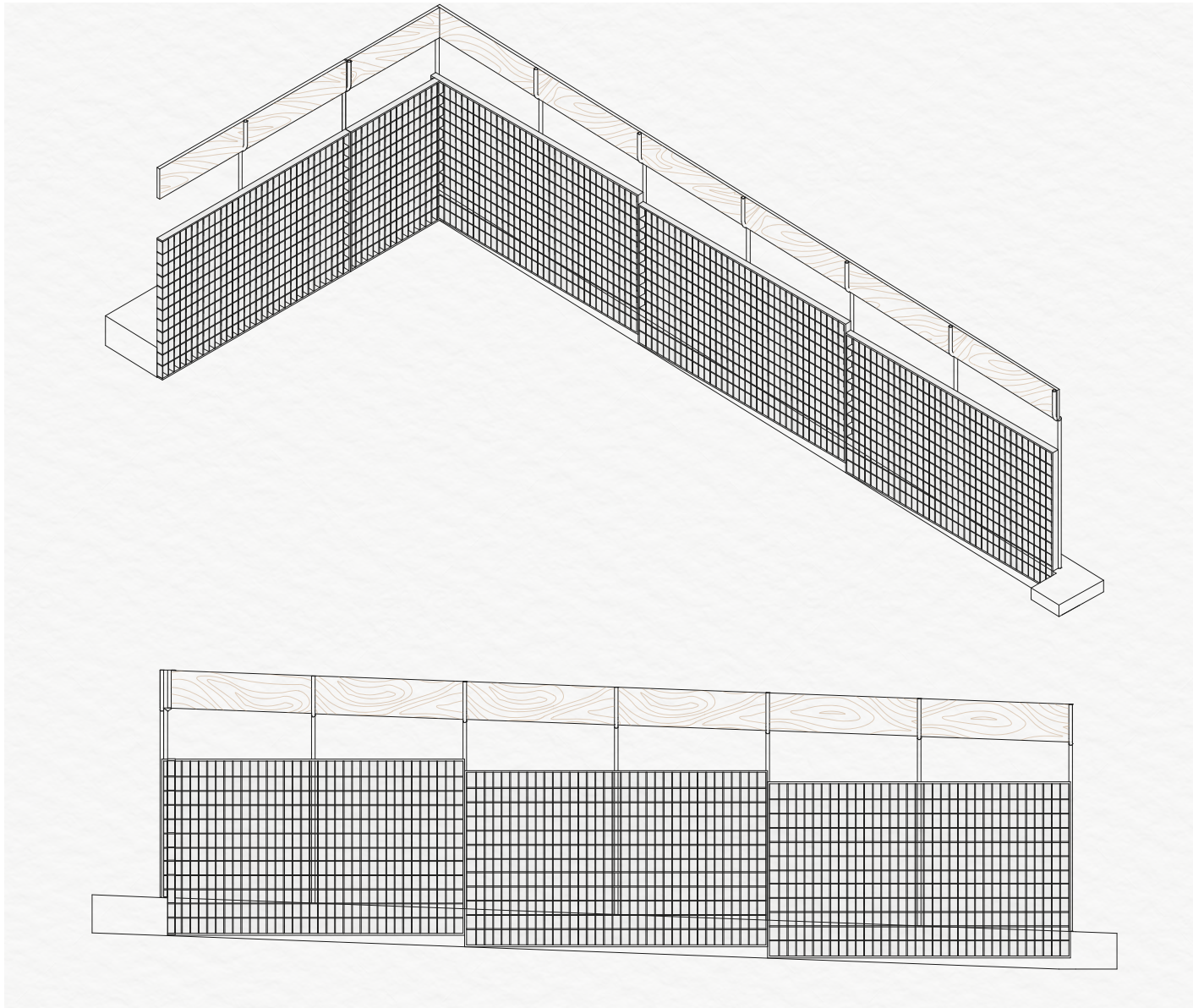
A playground to share knowledge
Wood beams found and collected in a shed in the building.



A playground to share knowledge
Lecture room chairs are dismantlement and collected.



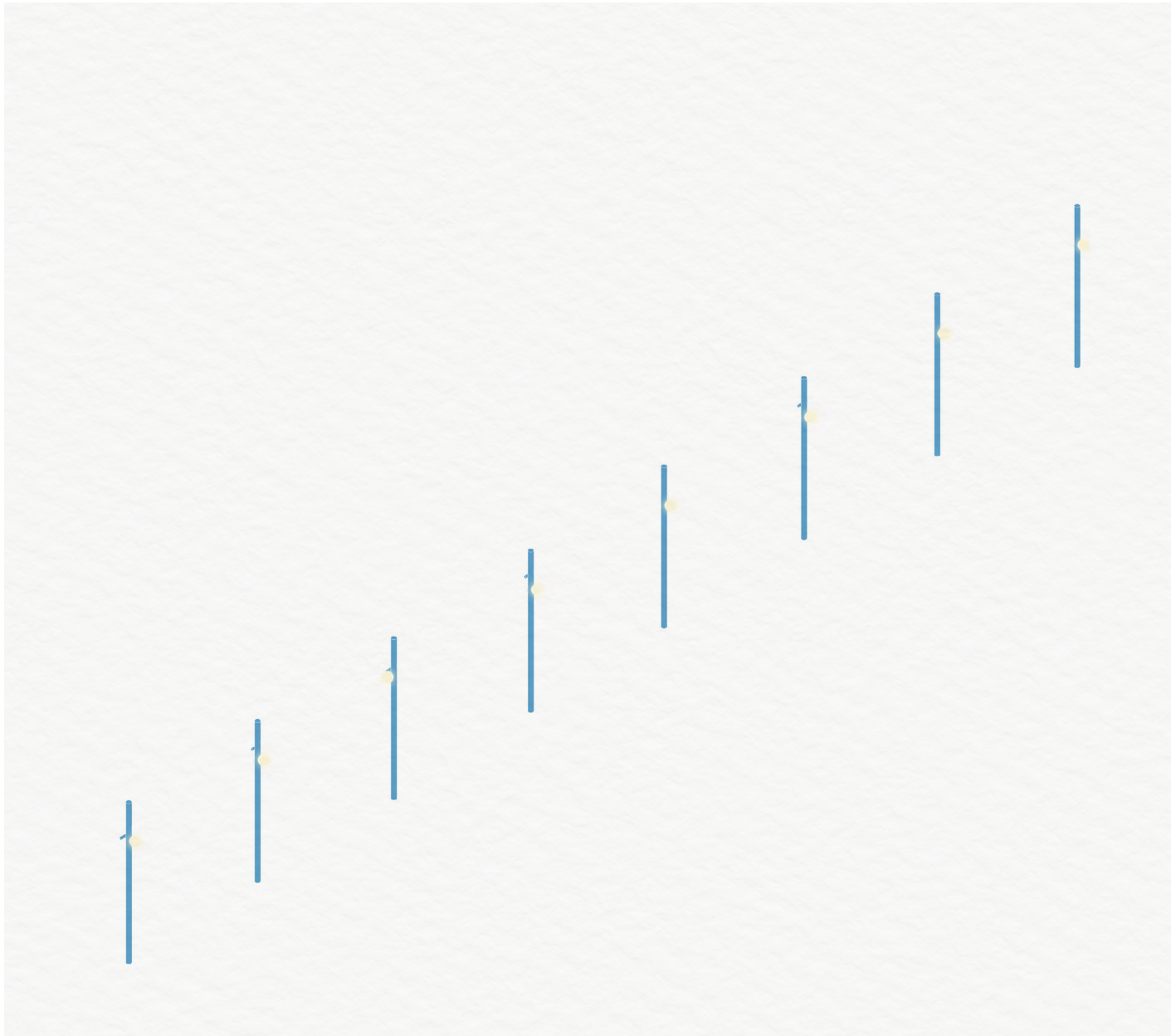
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Bleachers made out of former lecture room chairs found in the anti squat building with an exchange library in the back.



Balustrades made out of reusable metal mesh panels.



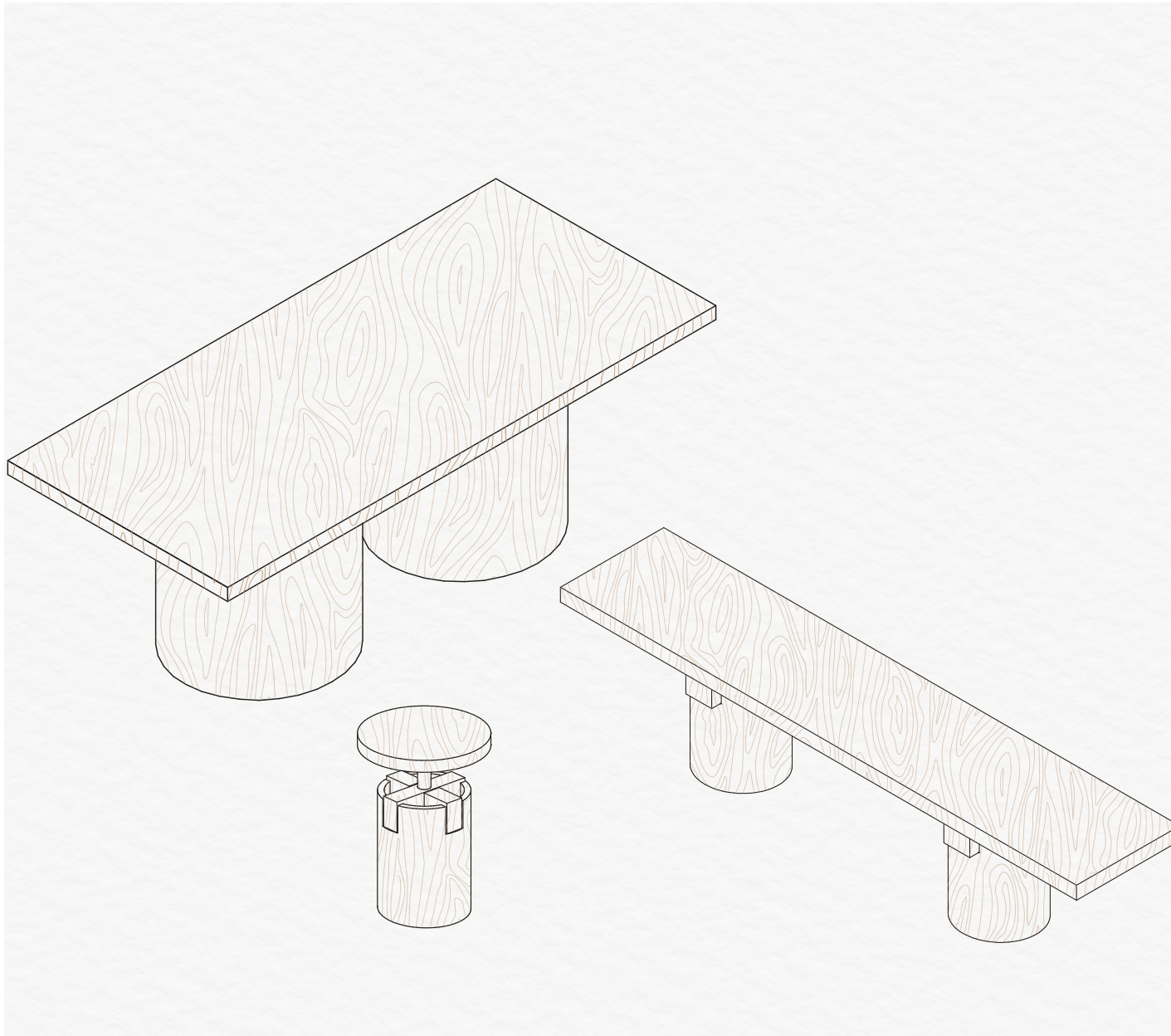
Balustrades made out of reusable metal mesh panels.



Light poles that resemble the existing structure on the building.



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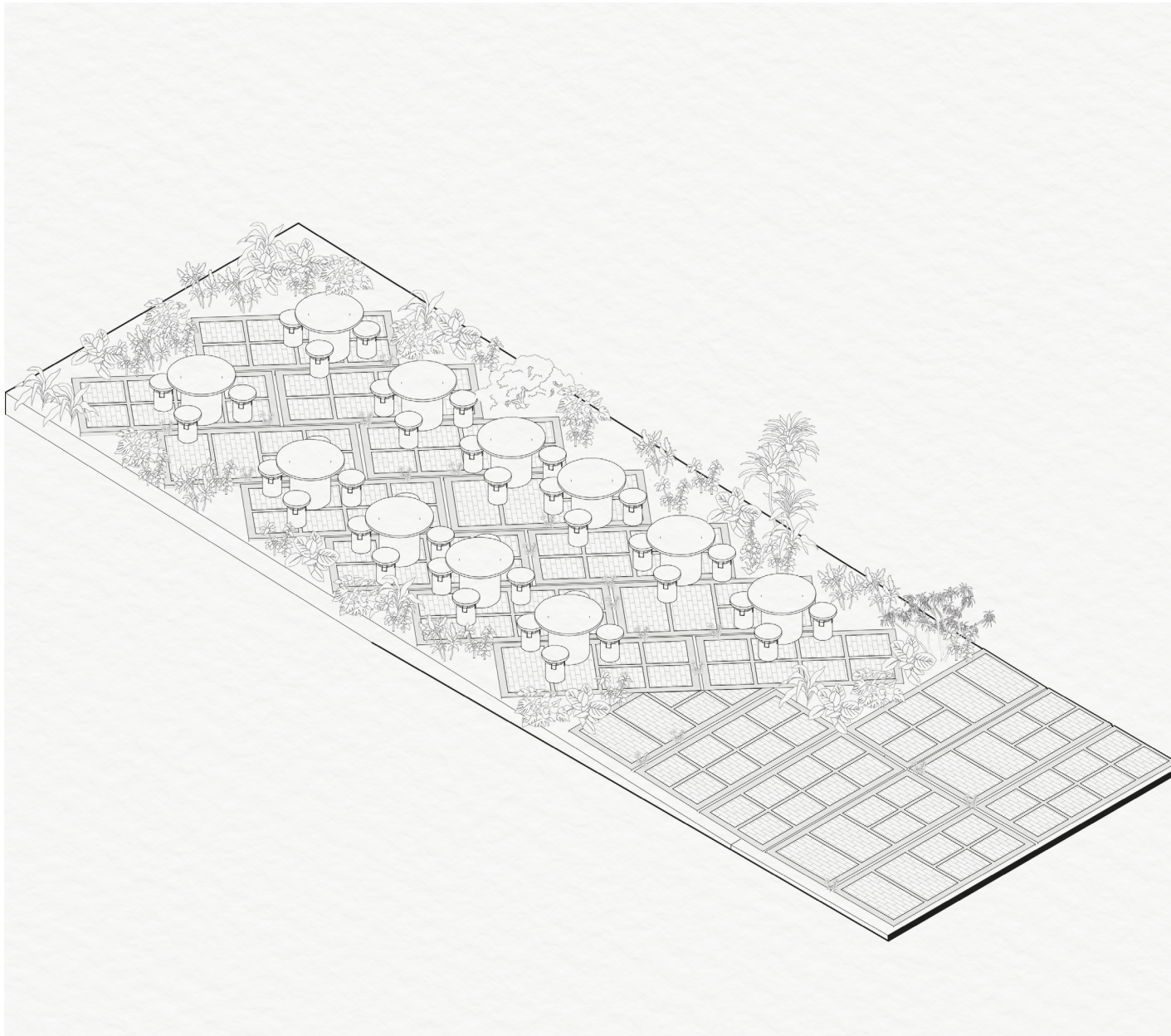
Furniture designed for the building.
This furniture is designed to stand on the slope. Such furniture maximizes the flexibility of the plans.



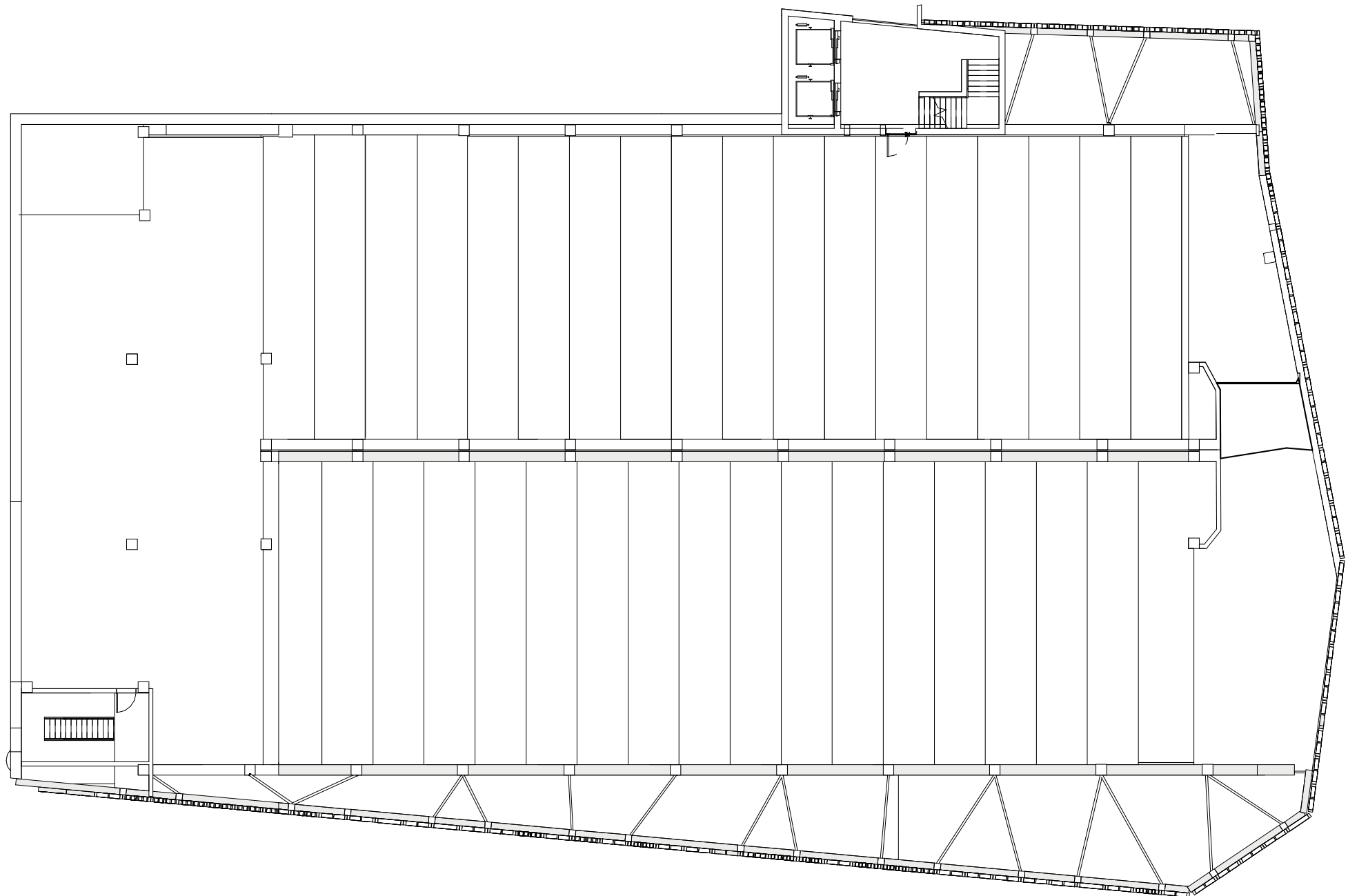
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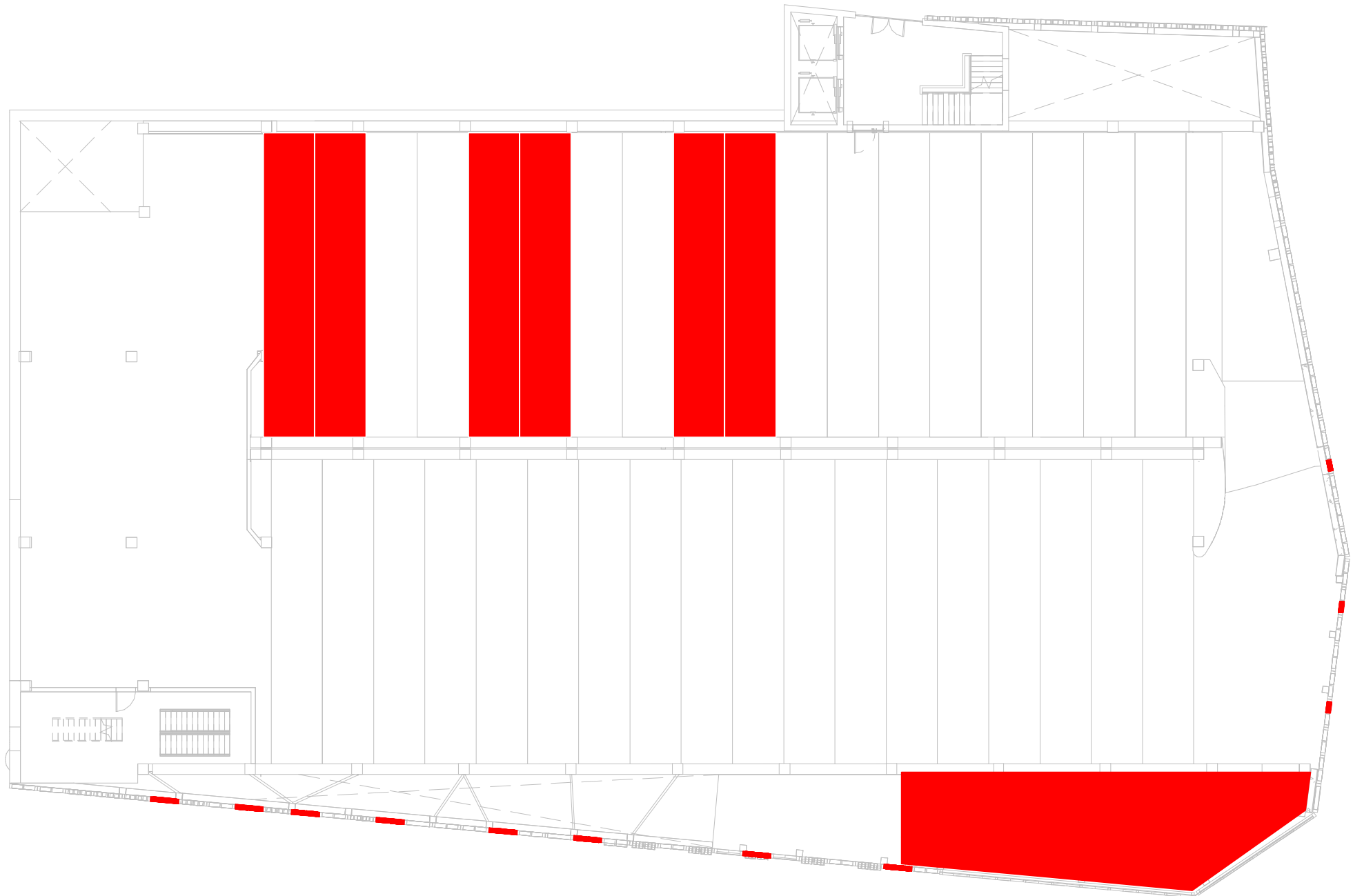
Facade panels used as tiles on the green roof.



Q-Park existing plan 2nd floor.



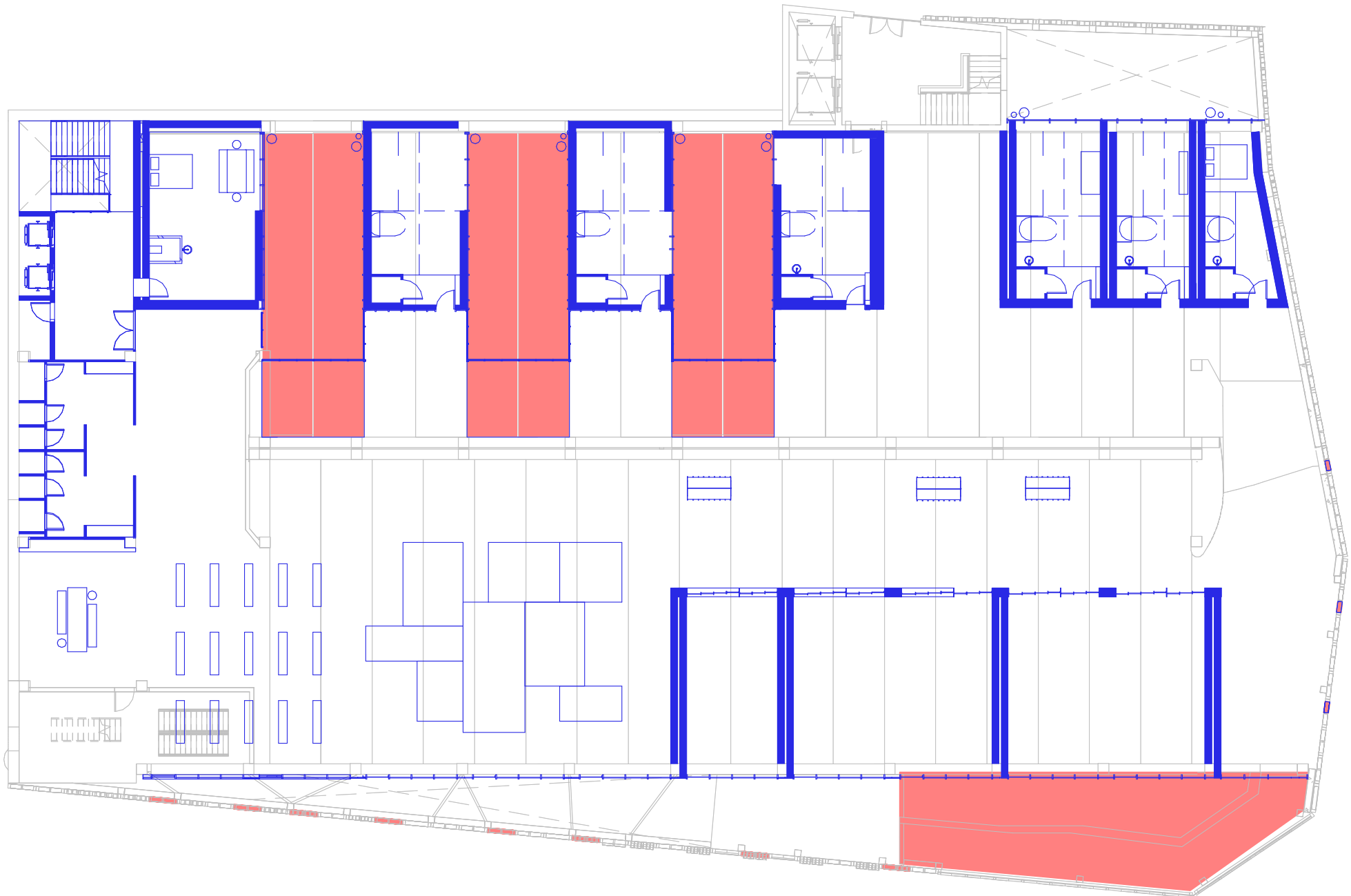
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Q-Park removed plan 2nd floor.



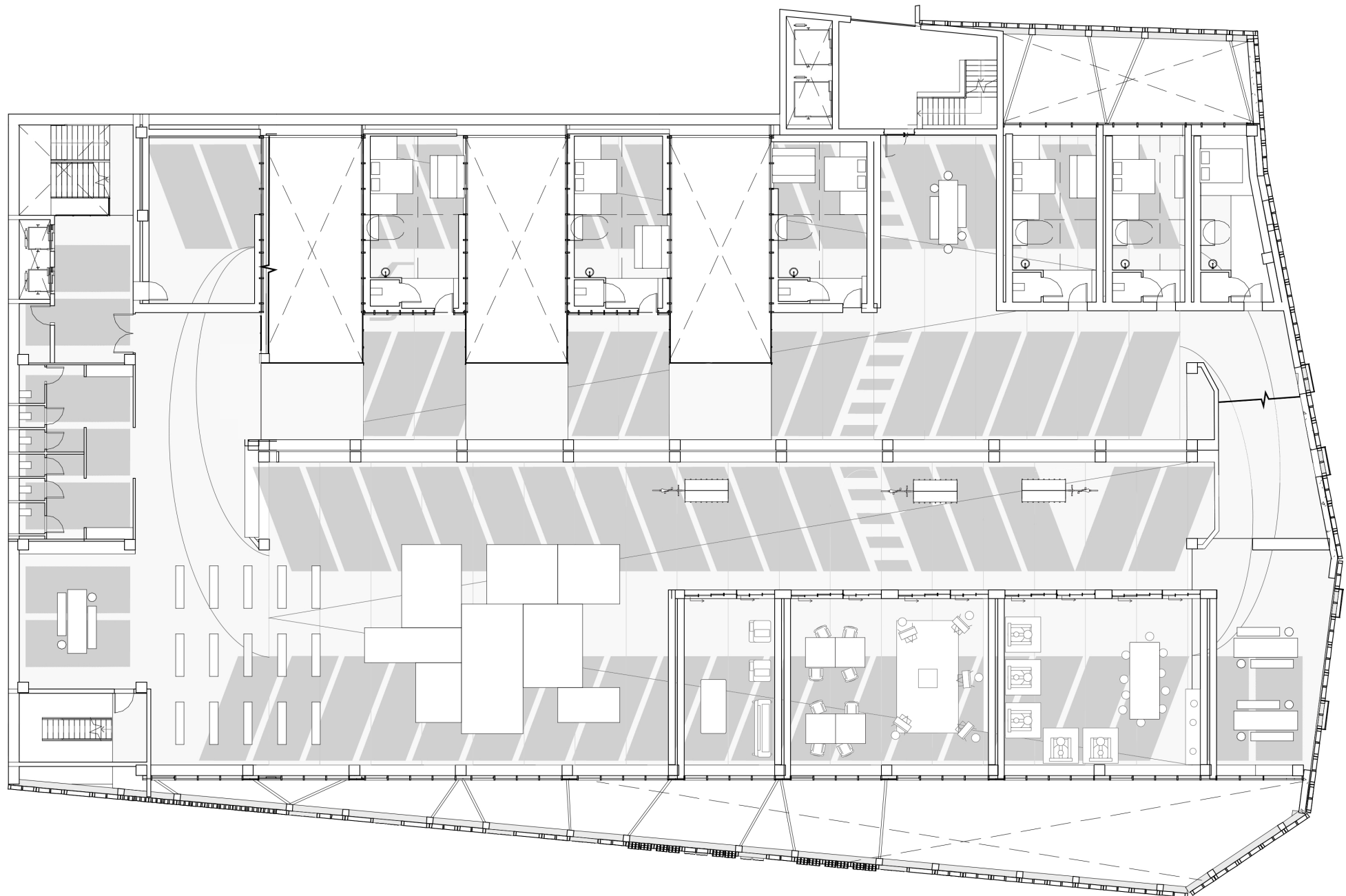
1:200



Q-Park added + removed plan 2nd floor.

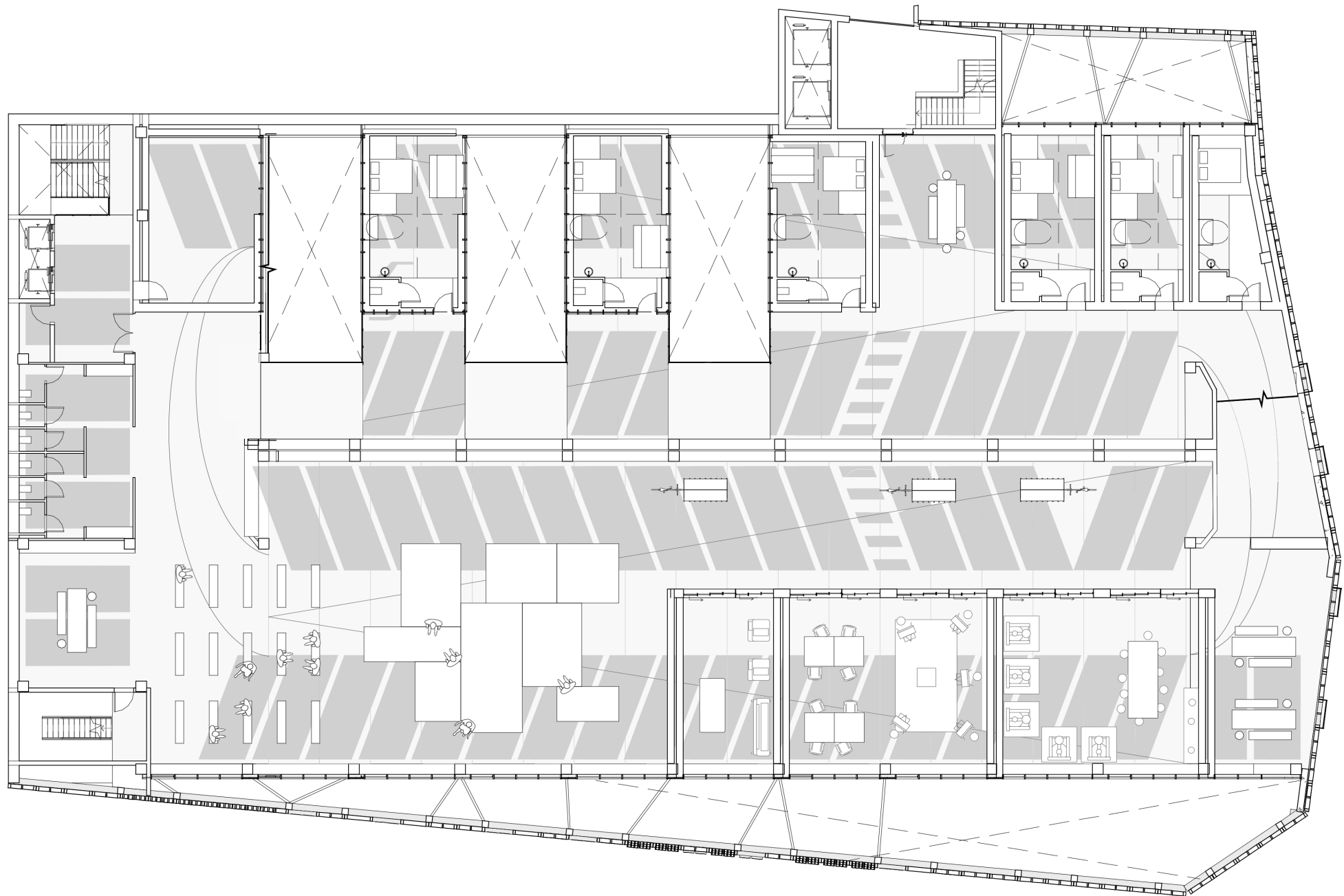


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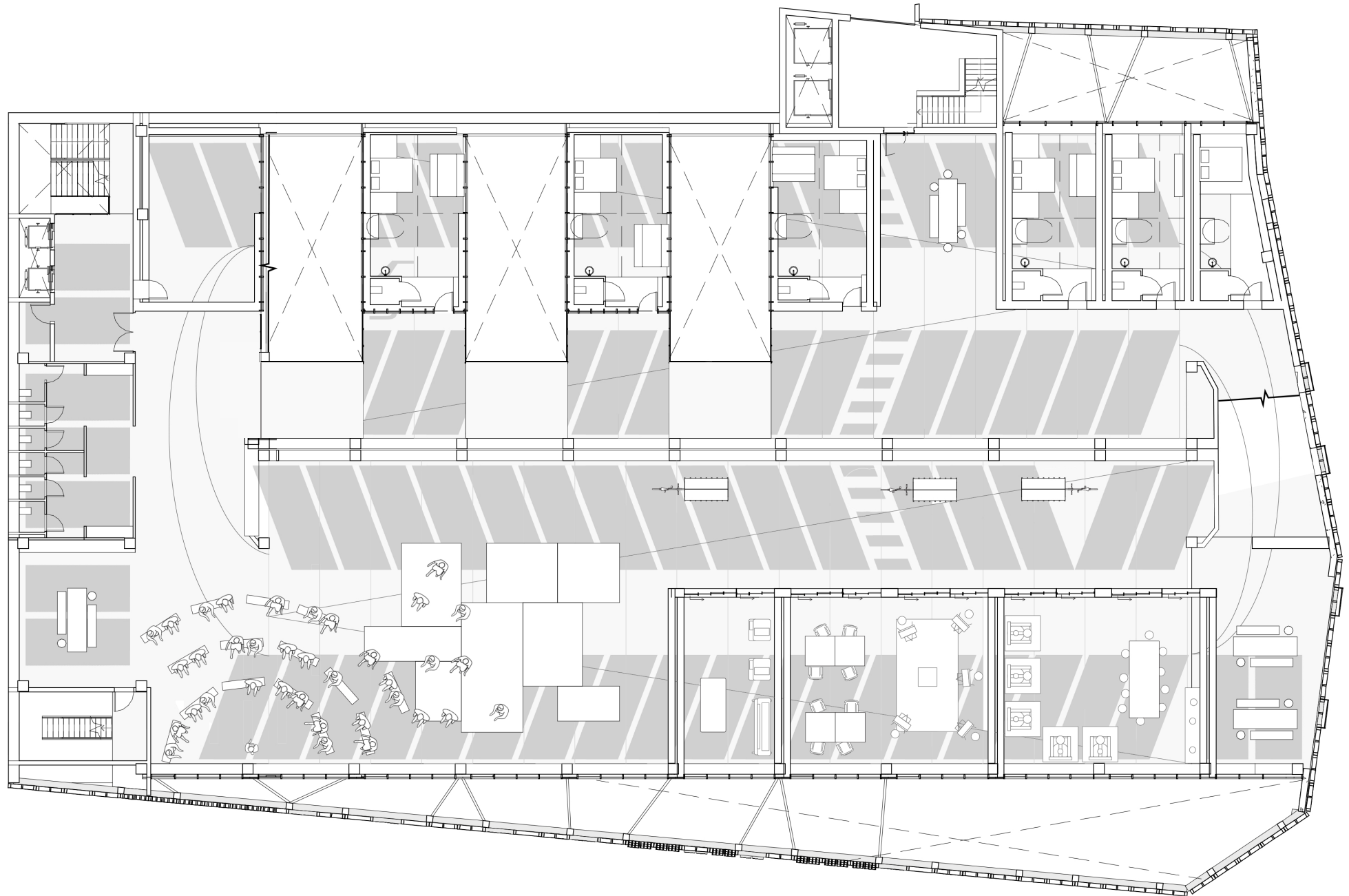
Q-Park new plan 2nd floor.





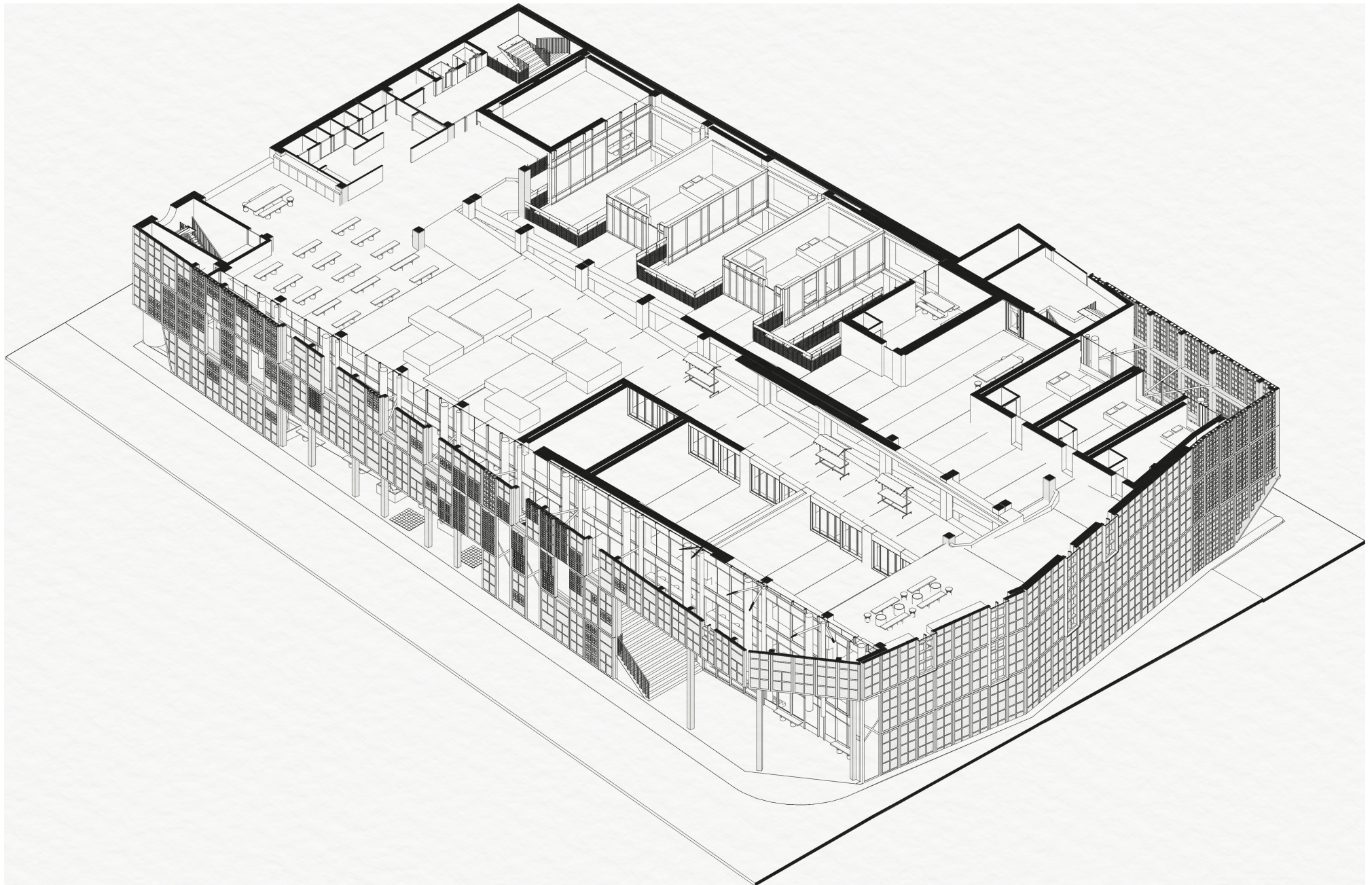
Q-Park new plan 2nd floor.



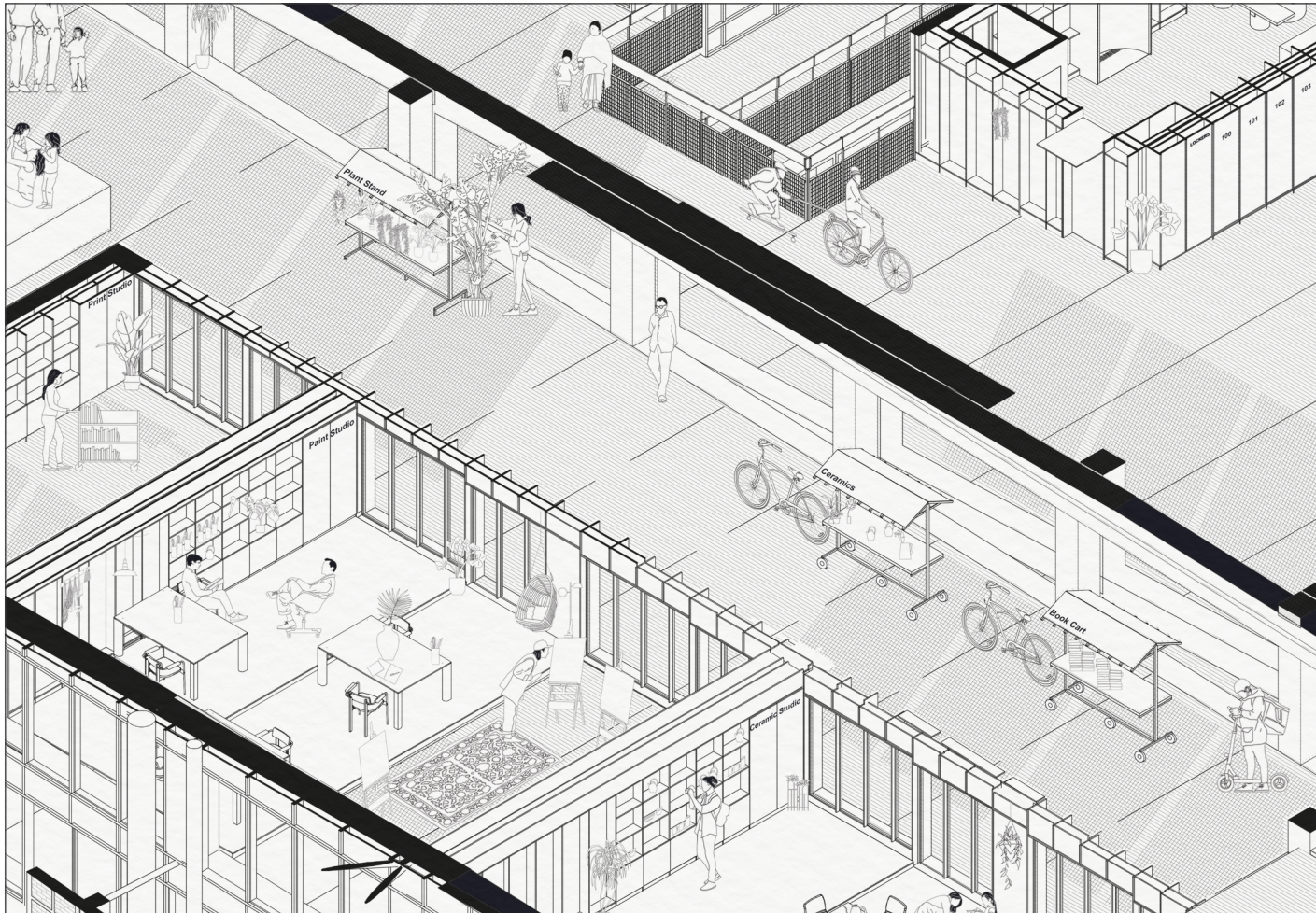


Q-Park new plan 2nd floor.

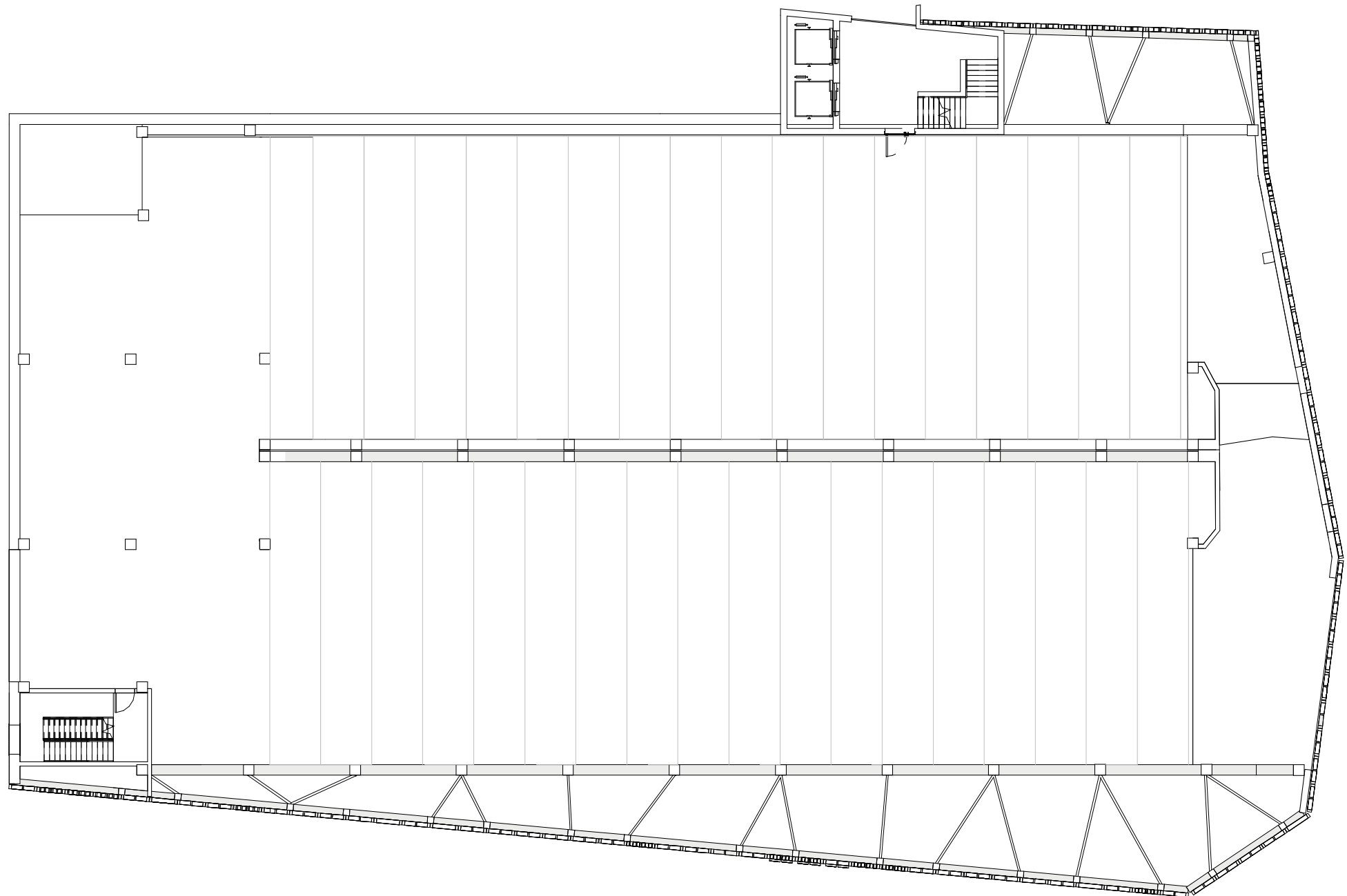




Axonometric 2nd floor.



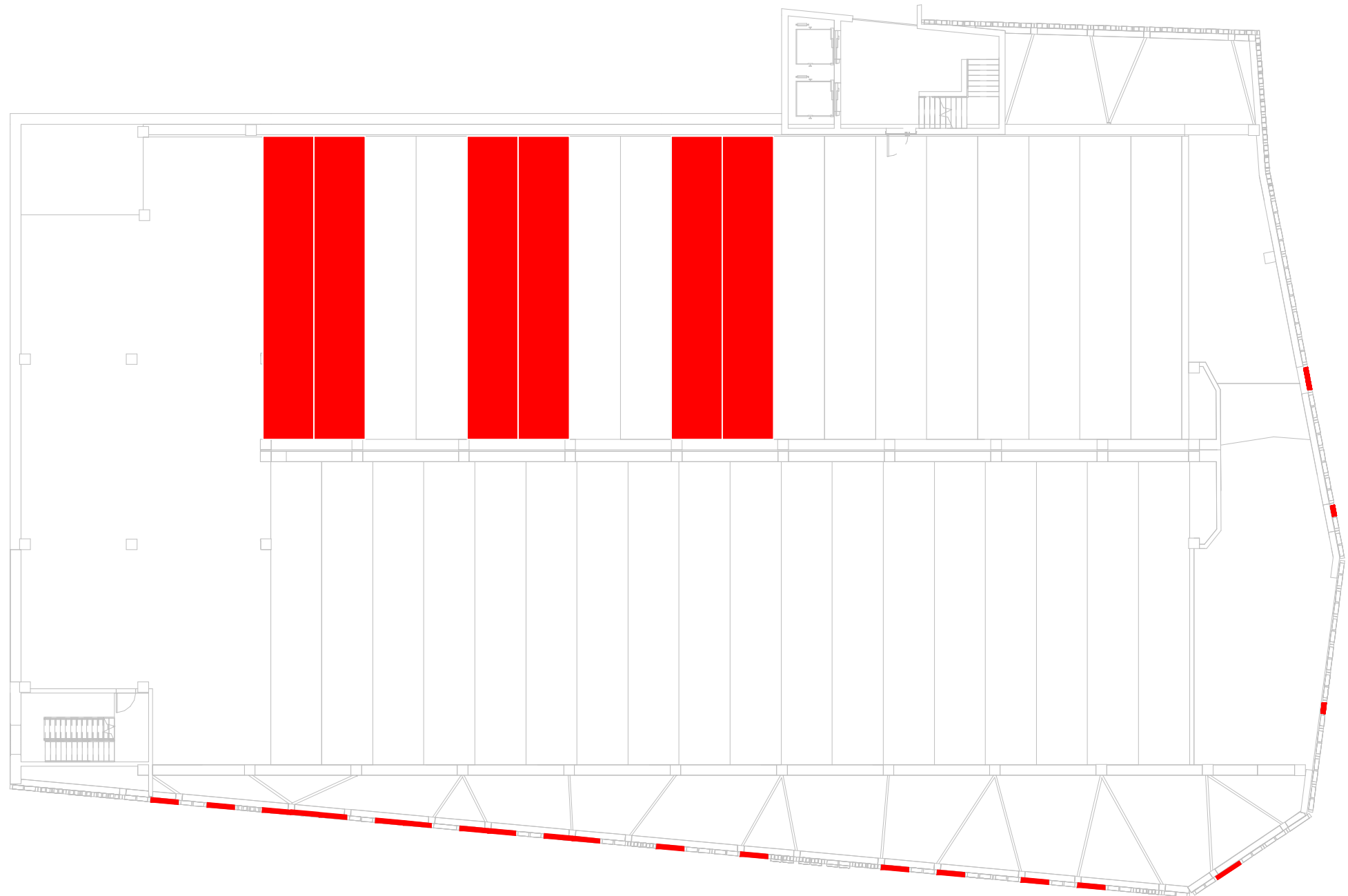
Axonometric action 2nd floor



Q-Park existing plan 3rd floor.



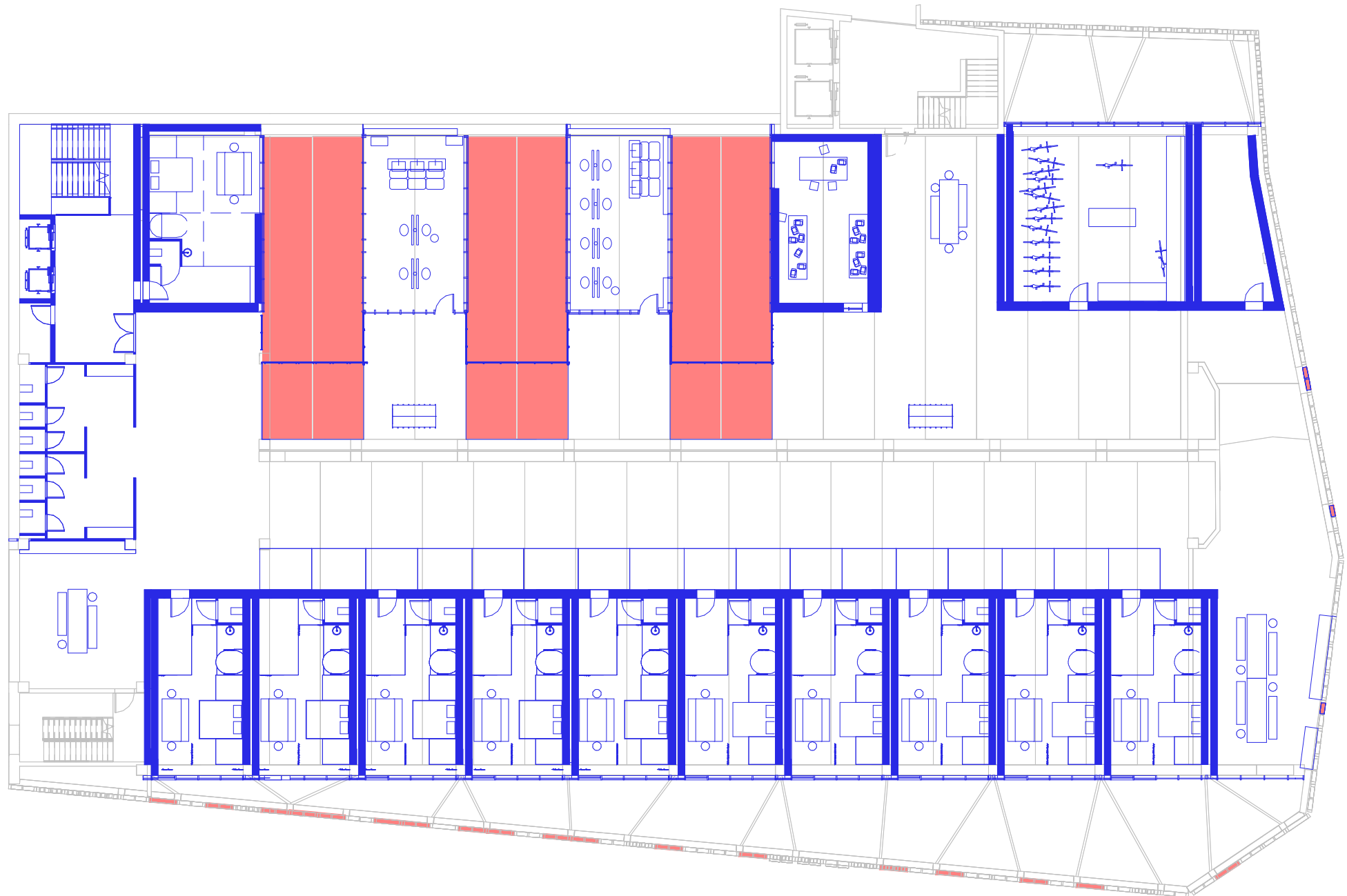
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Q-Park removed plan 3rd floor.



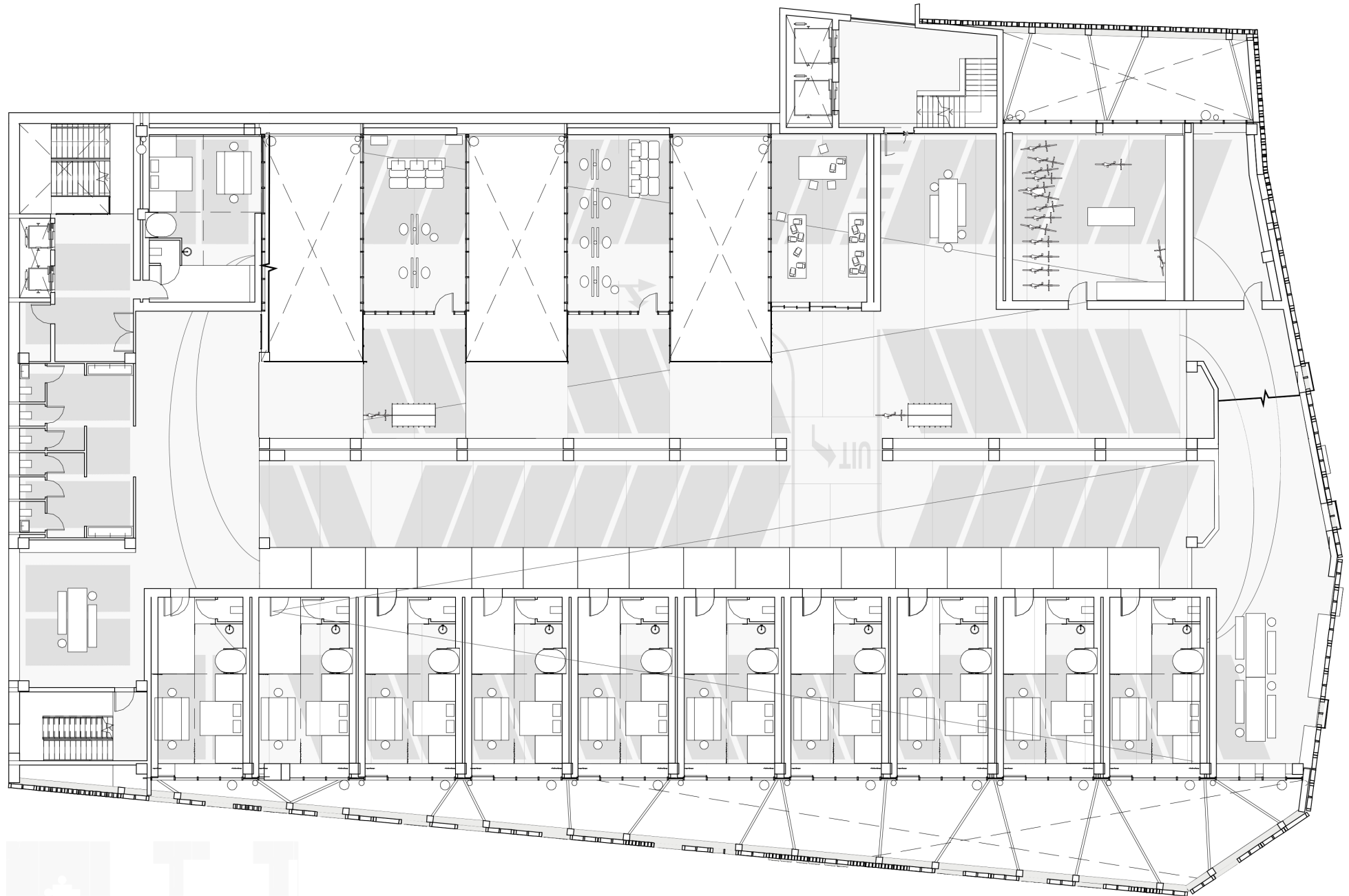
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Q-Park added + removed plan 3rd floor.



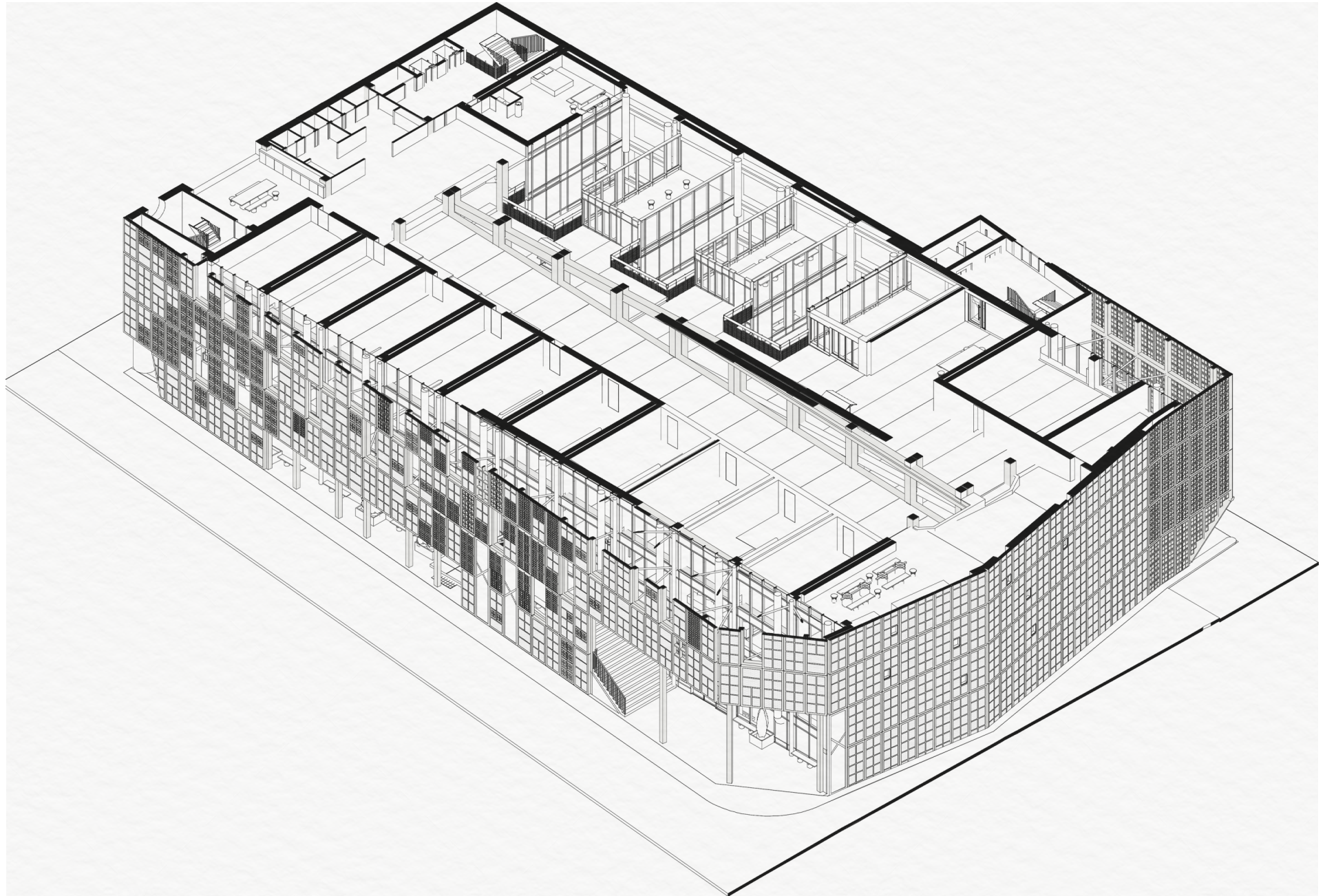
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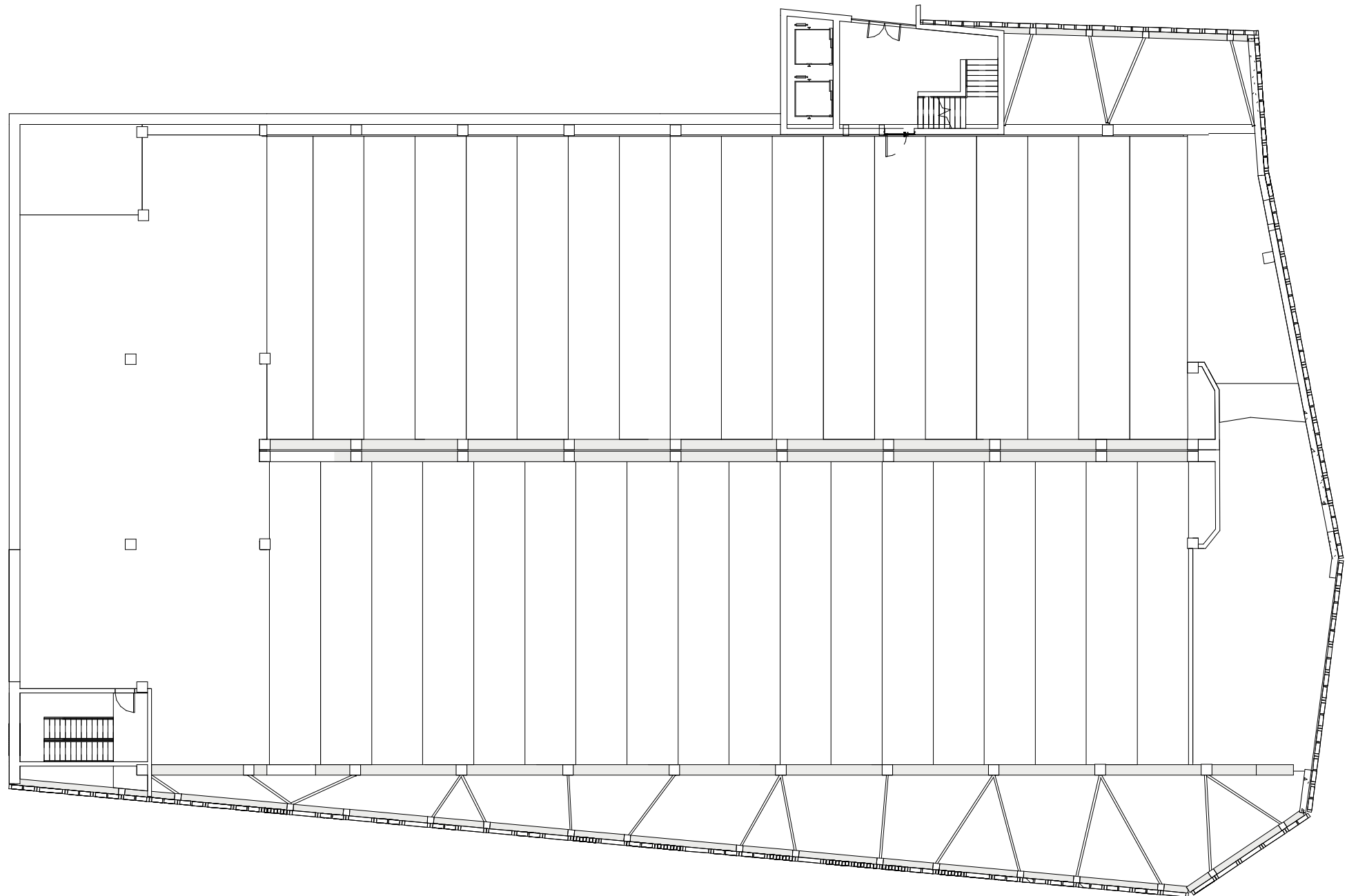
Q-Park new plan 3rd floor.



1:200



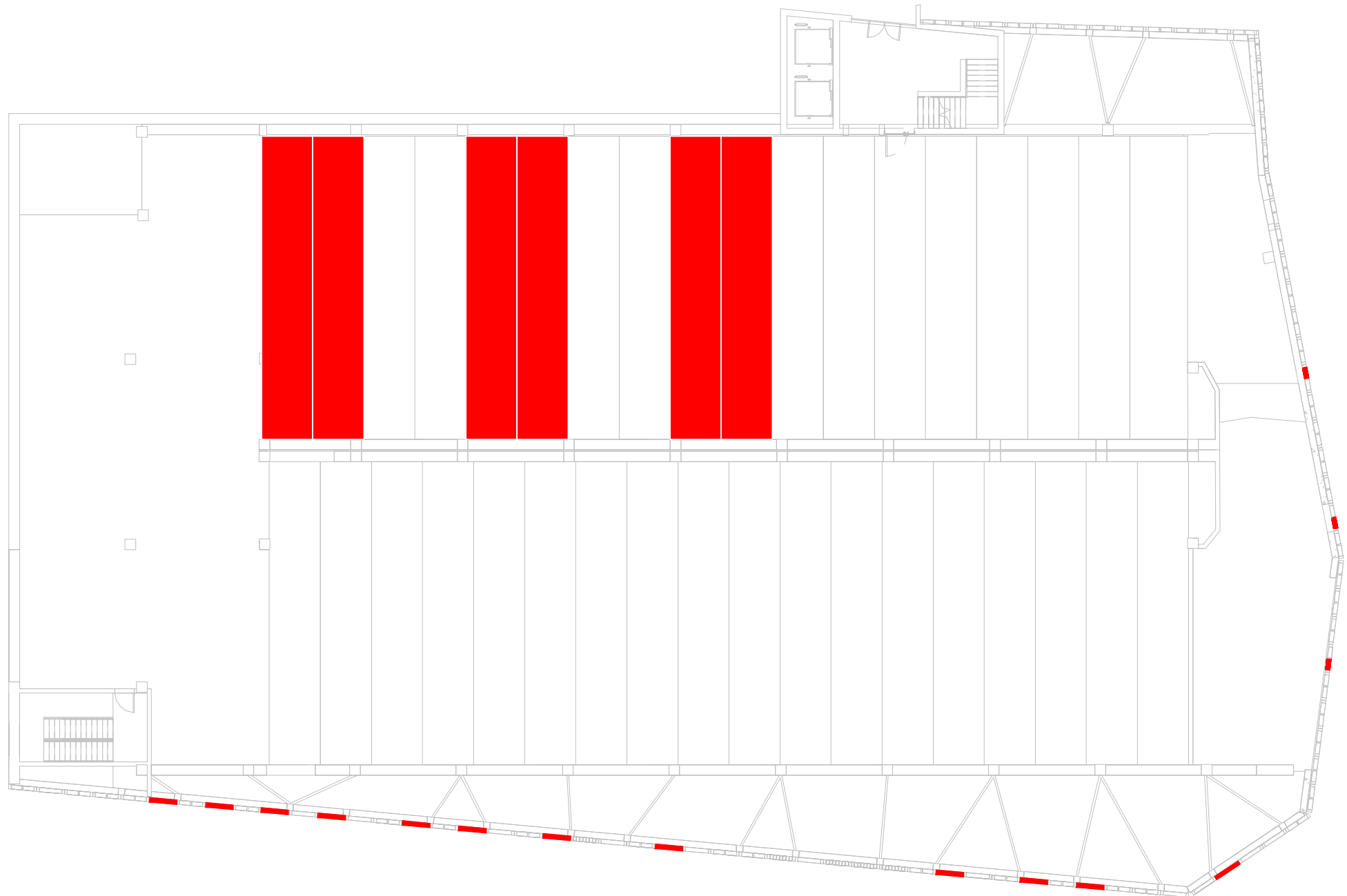
Axonometric 3rd floor.



Q-Park existing plan 4th floor.



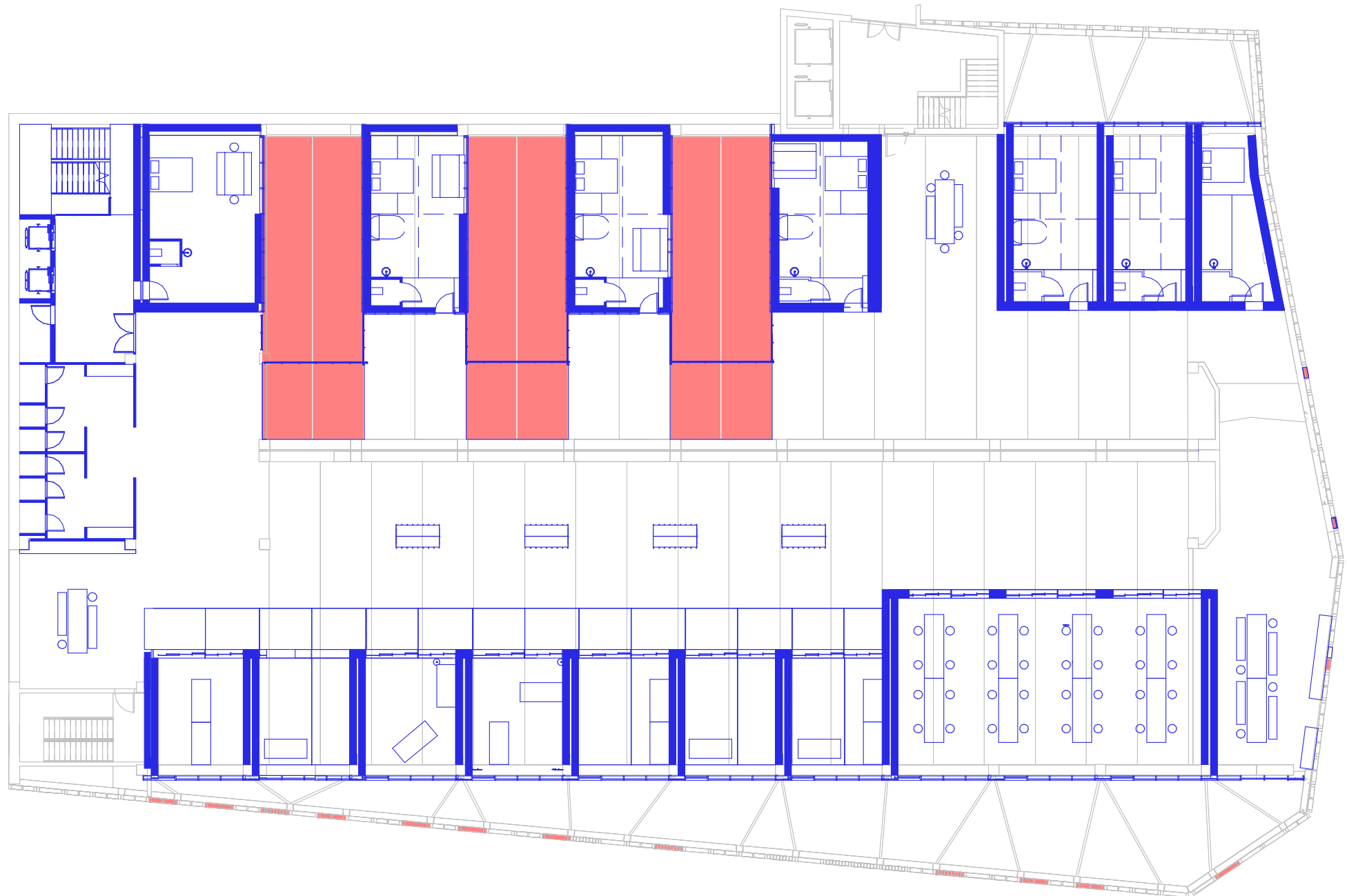
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Q-Park removed plan 4th floor.



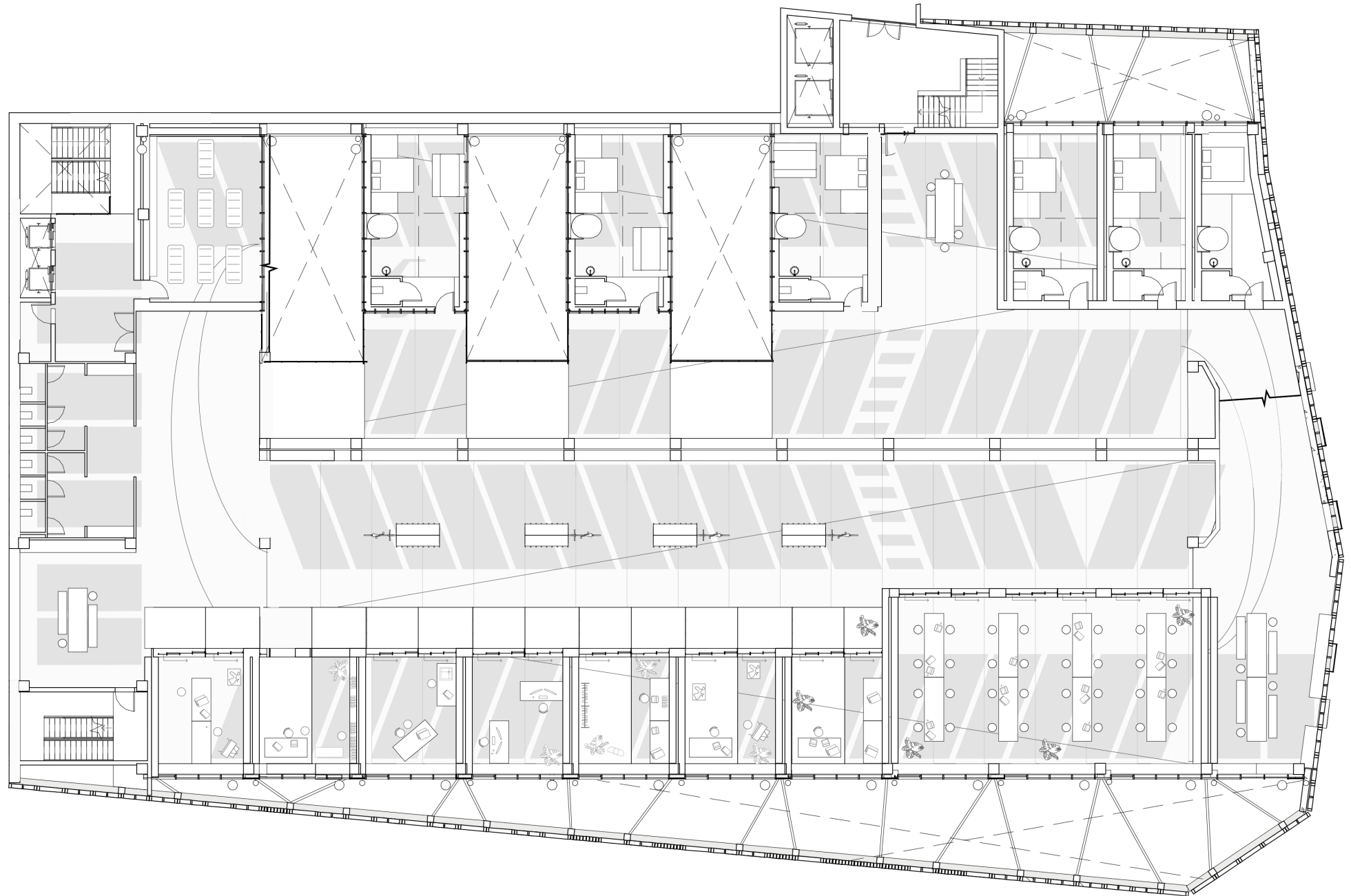
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Q-Park added + removed plan 4th floor.

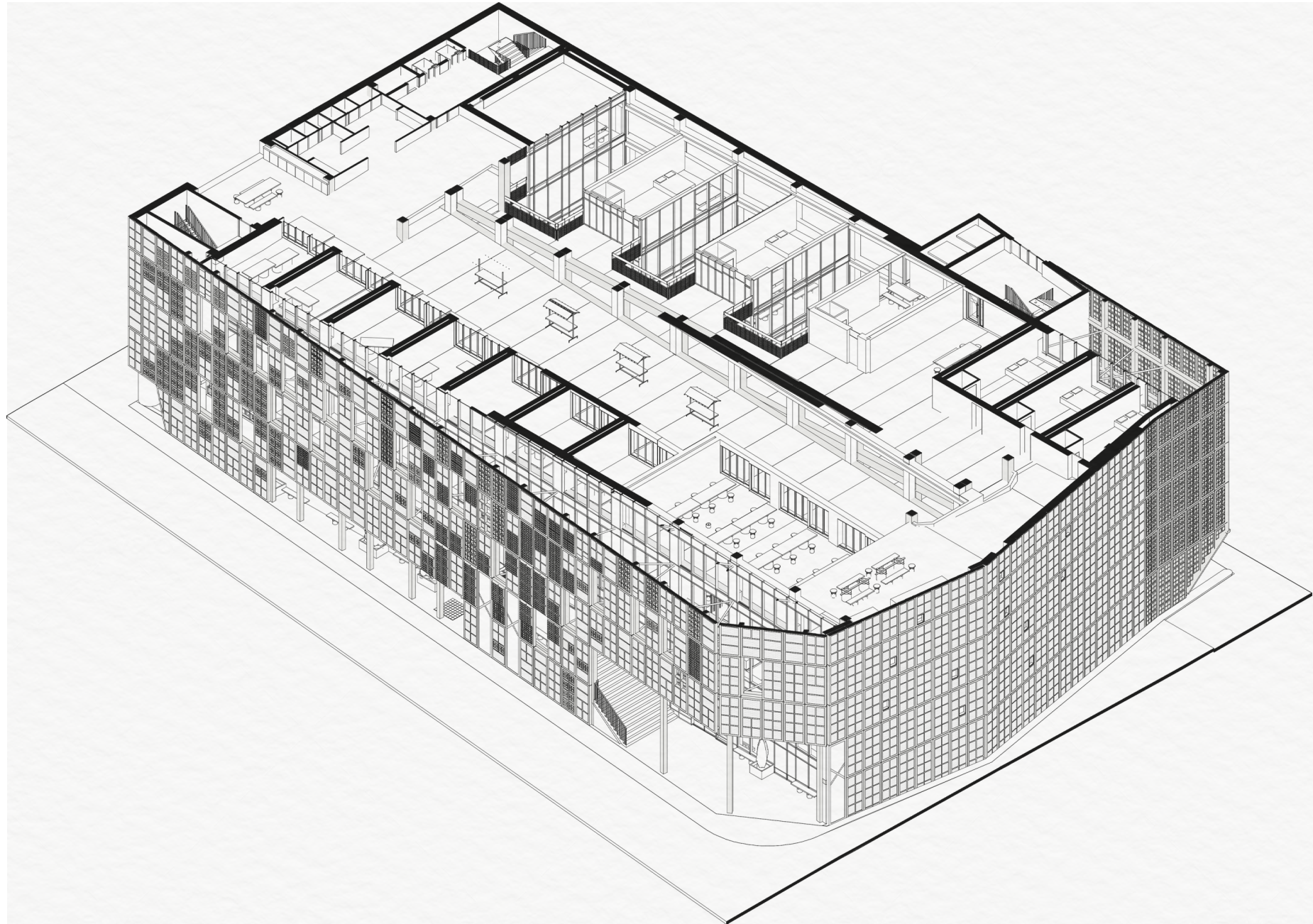


1:200



Q-Park new plan 4th floor.

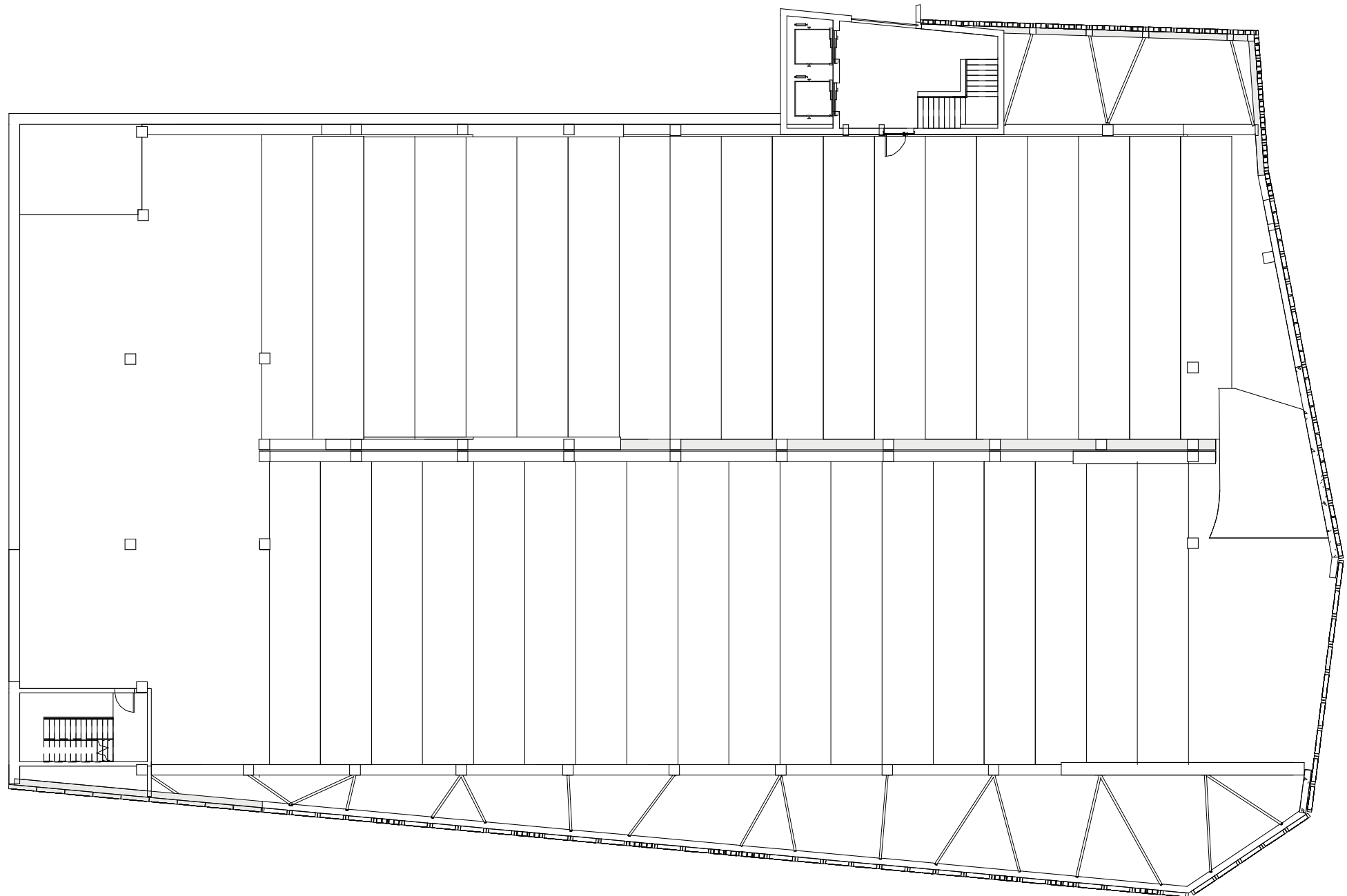




Axonometric 4th floor.



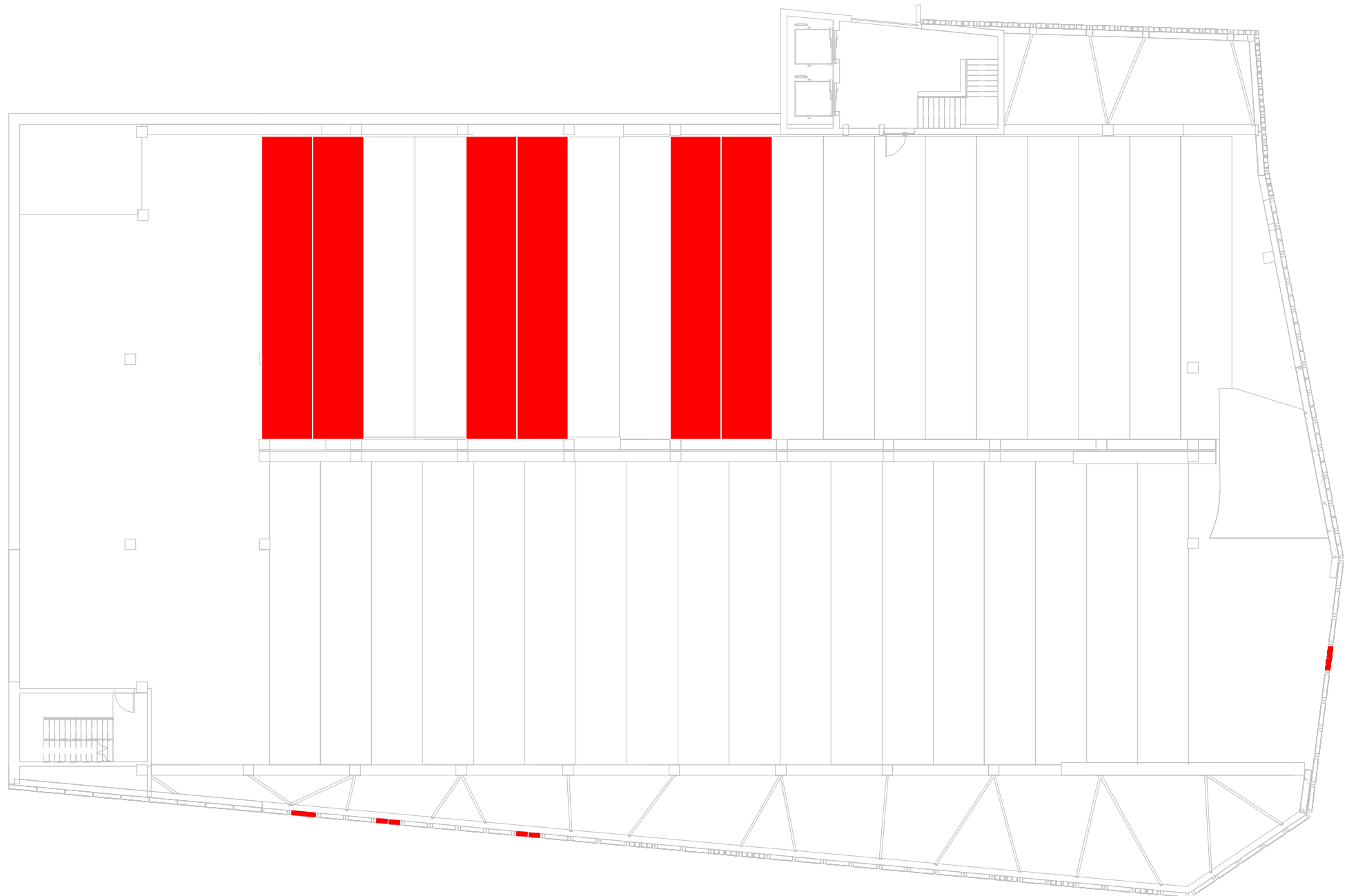
Axonometric action 4th floor



Q-Park existing plan 5th floor.



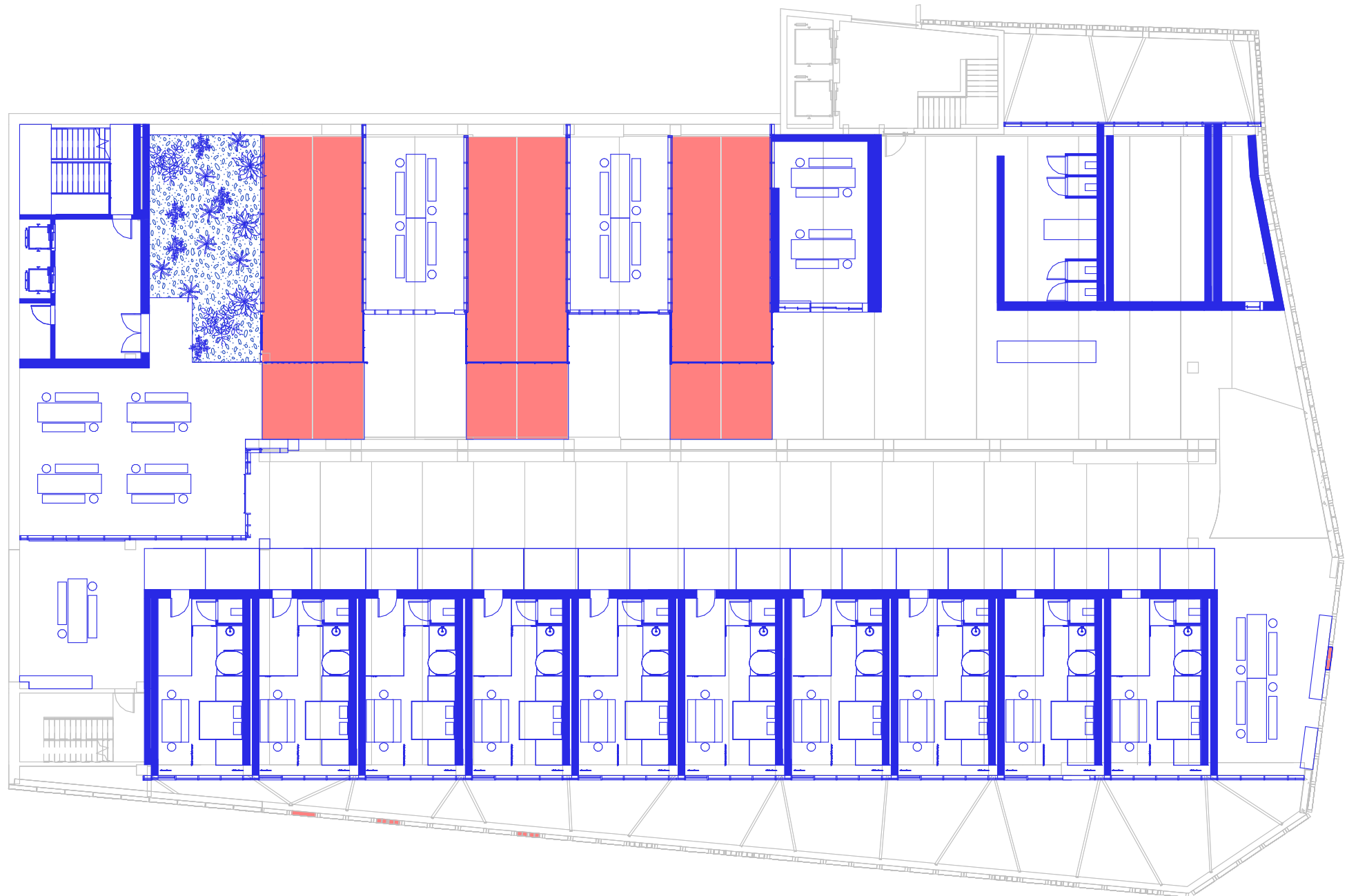
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Q-Park removed plan 5th floor.



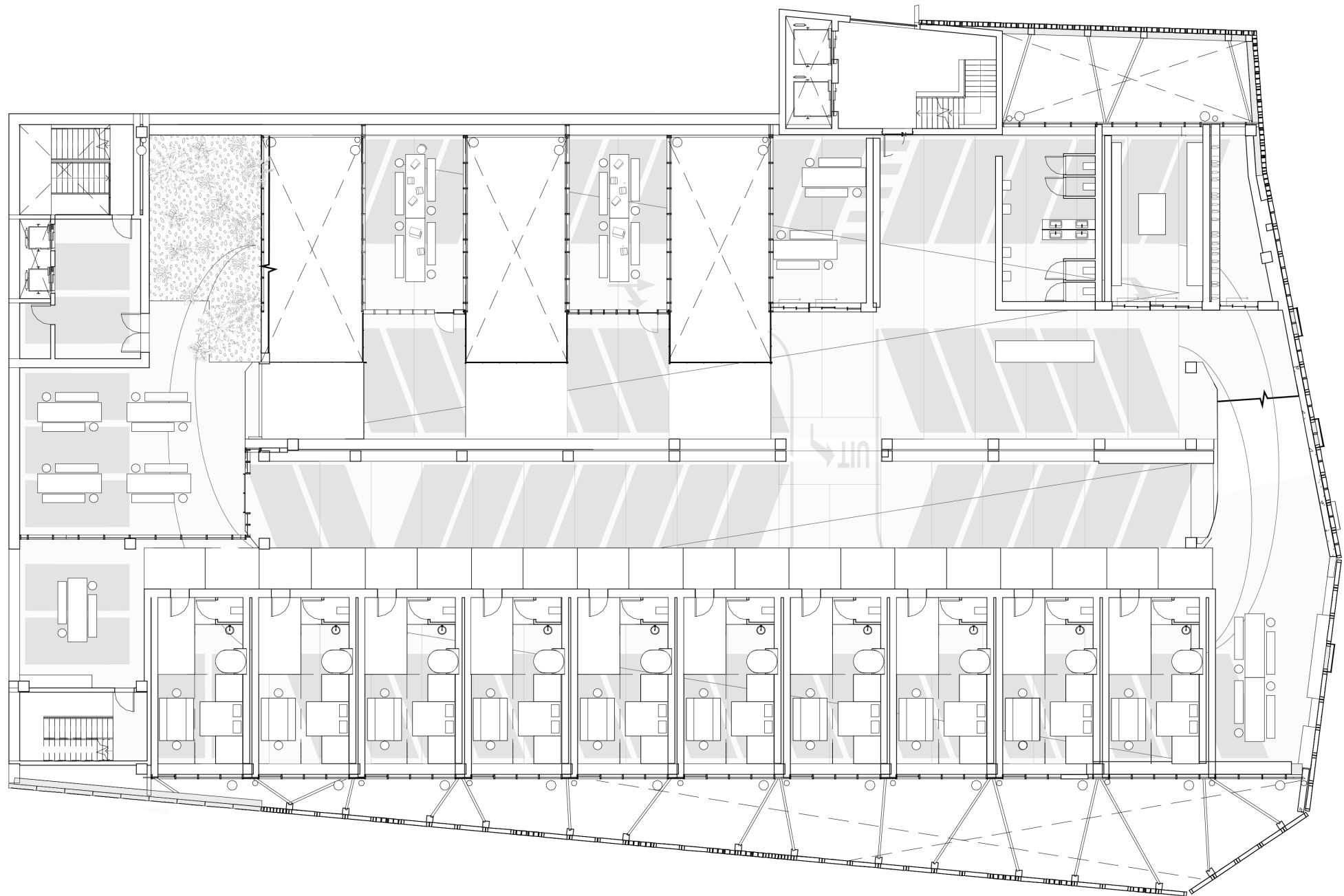
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Q-Park added + removed plan 5th floor.



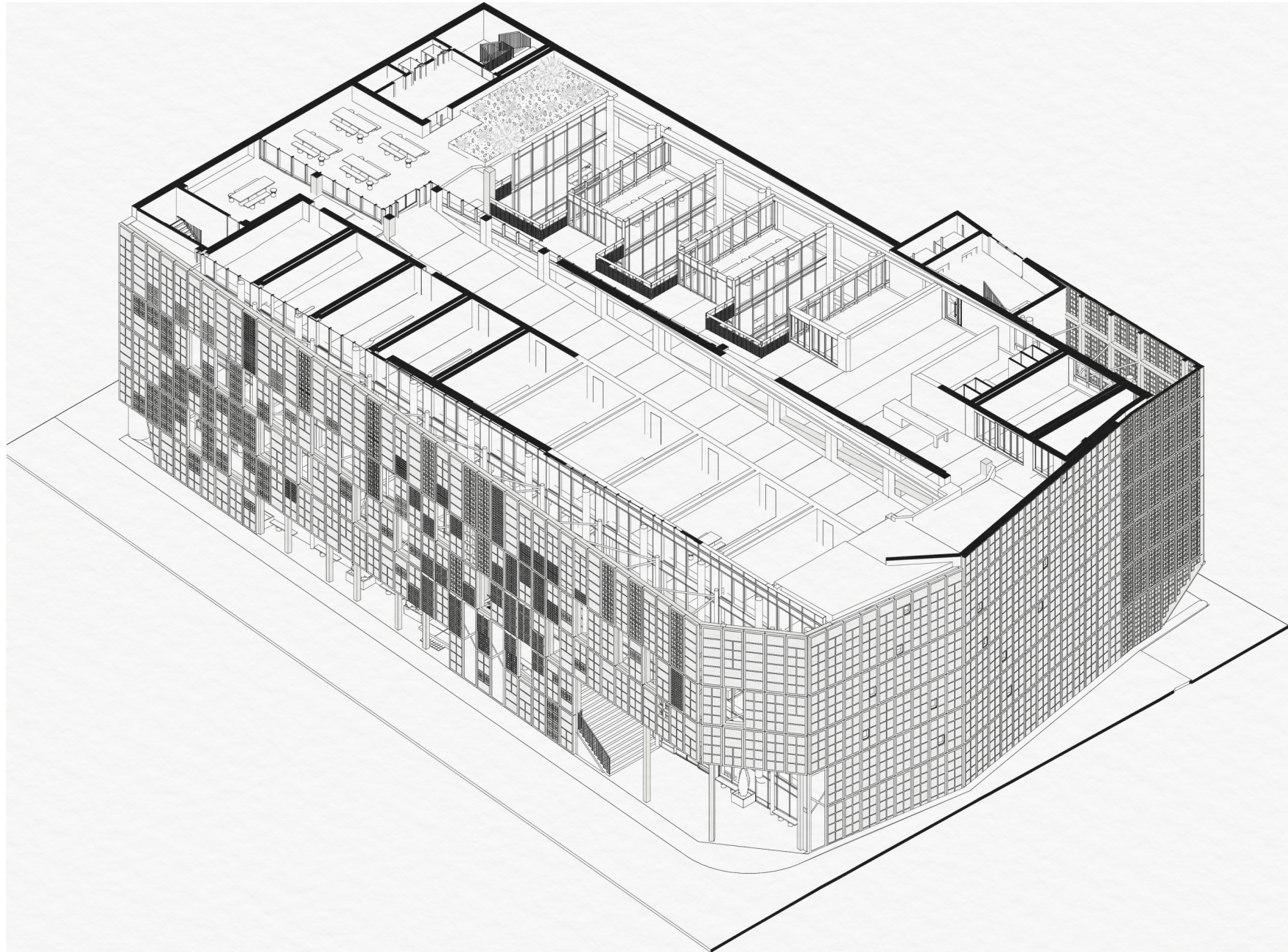
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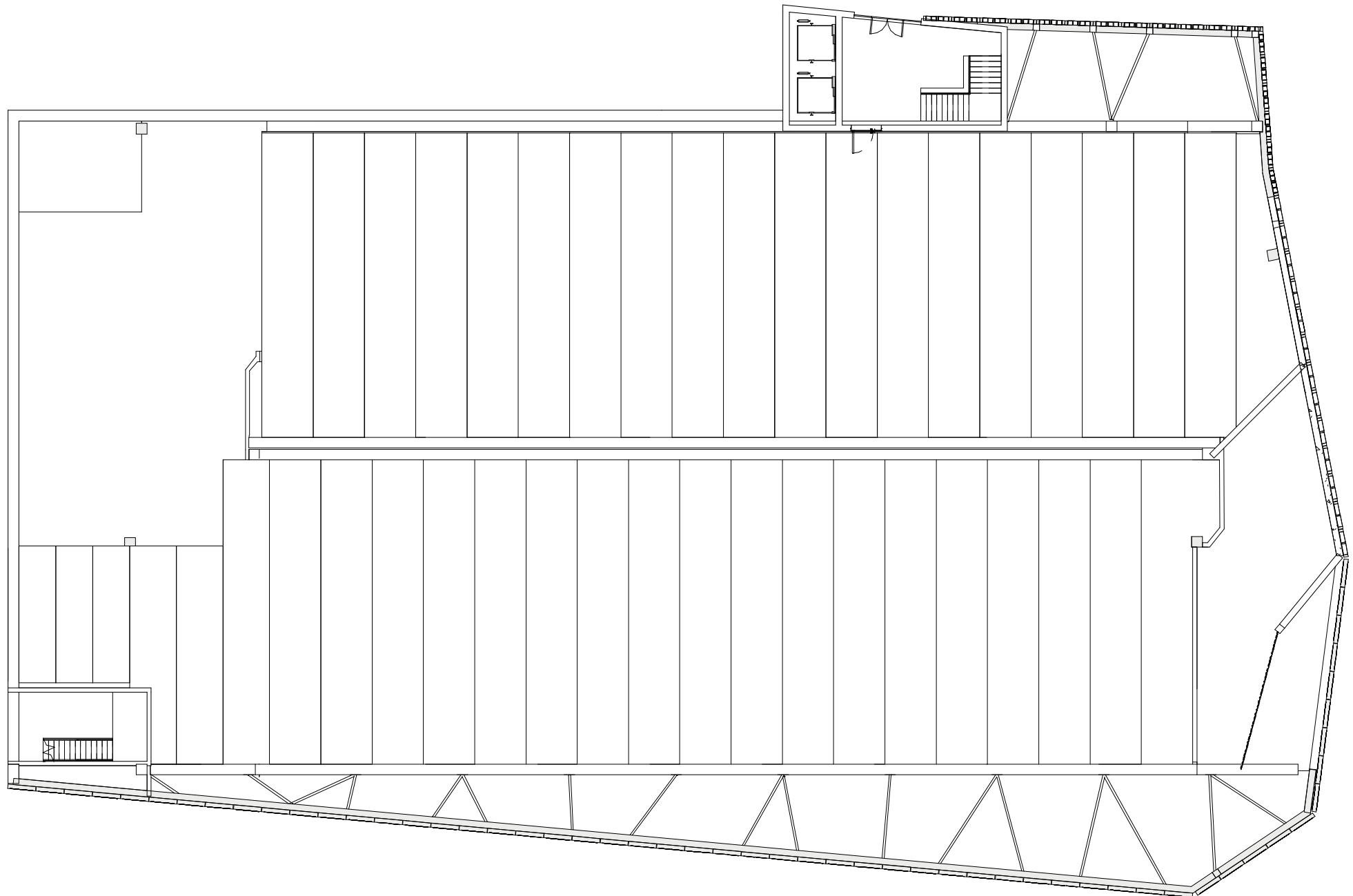
Q-Park new plan 5th floor.



1:200



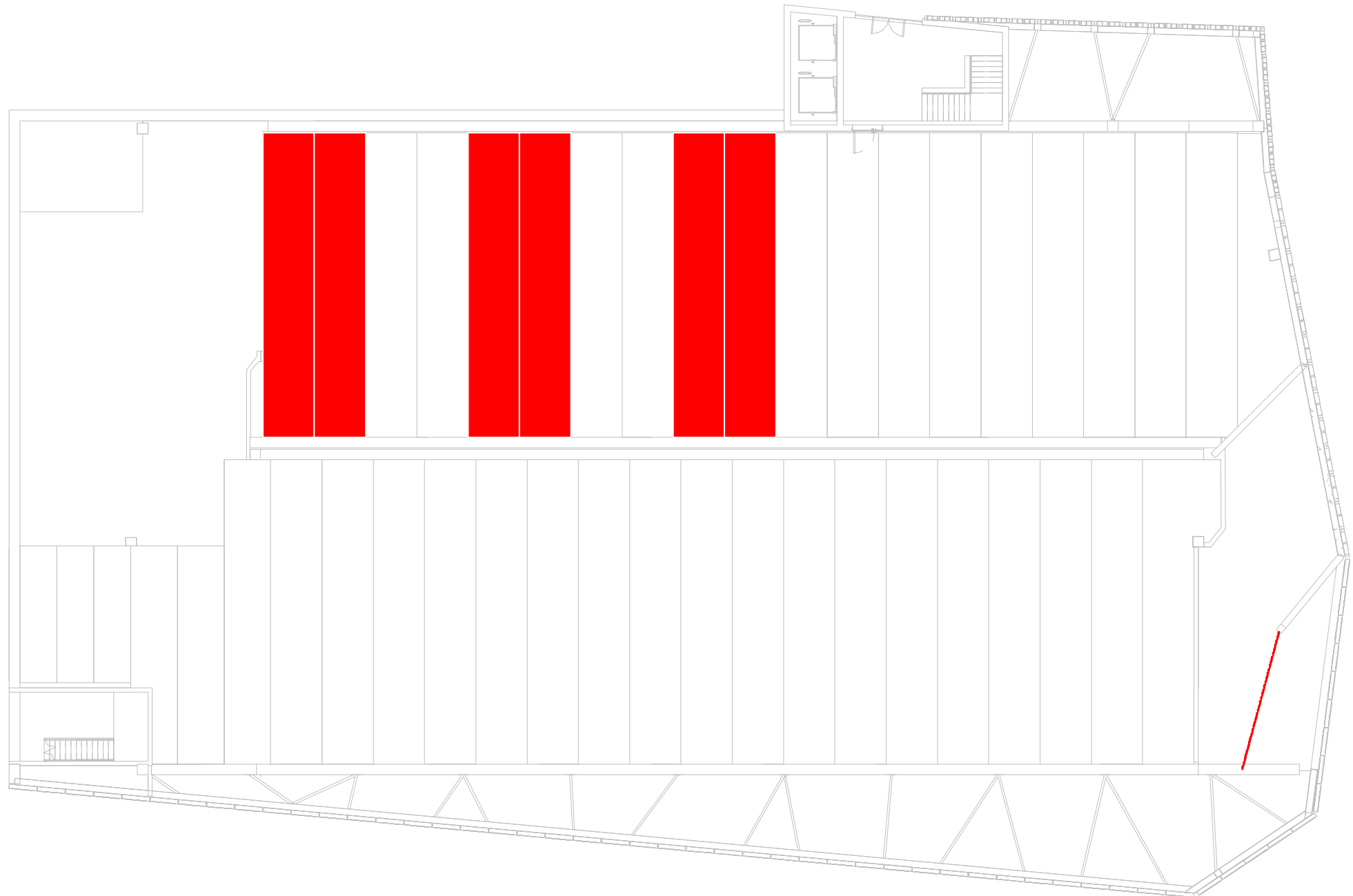
Axonometric 5th floor.



Q-Park existing plan 6th floor.



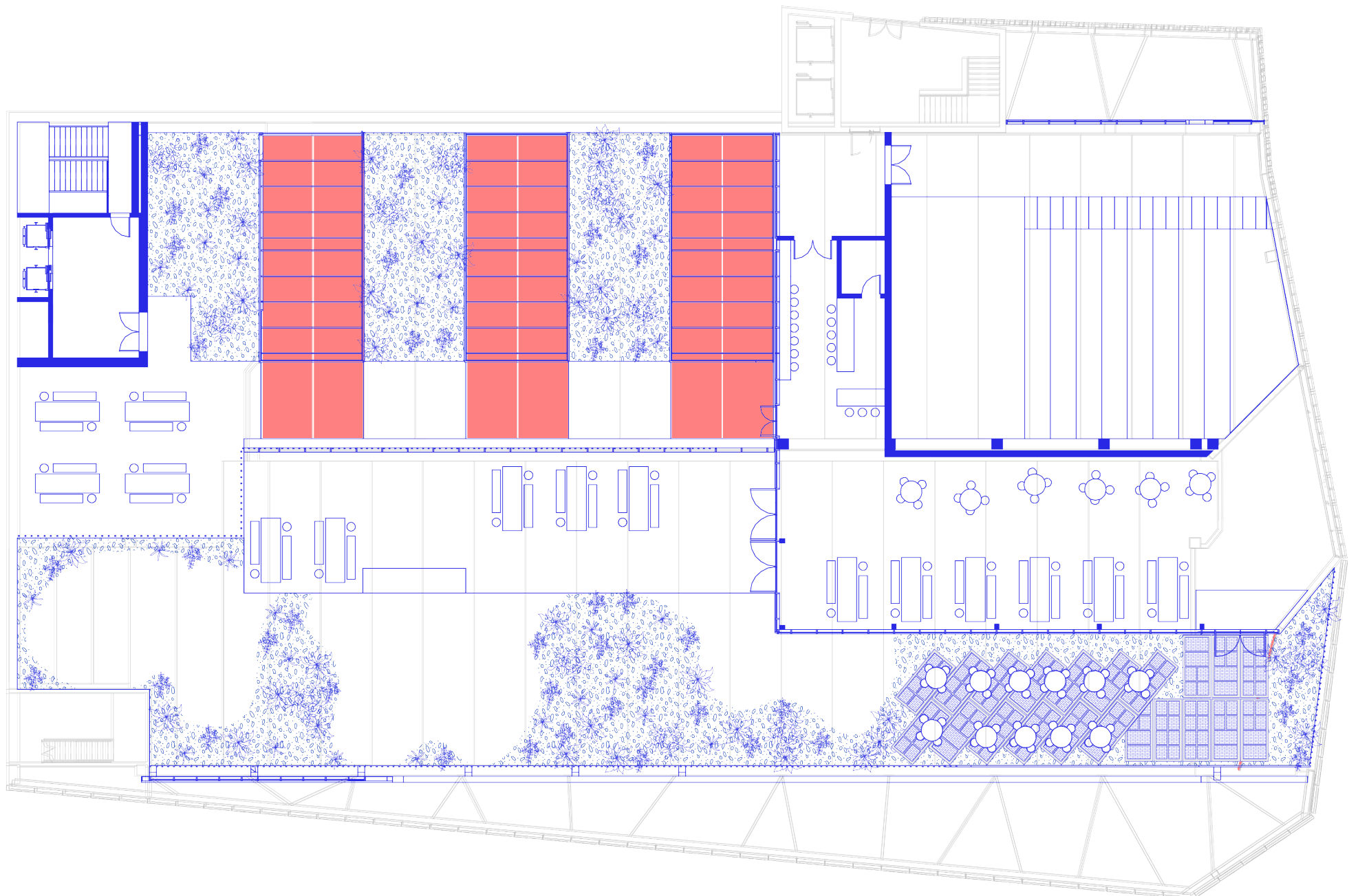
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Q-Park removed plan 6th floor.



1:200



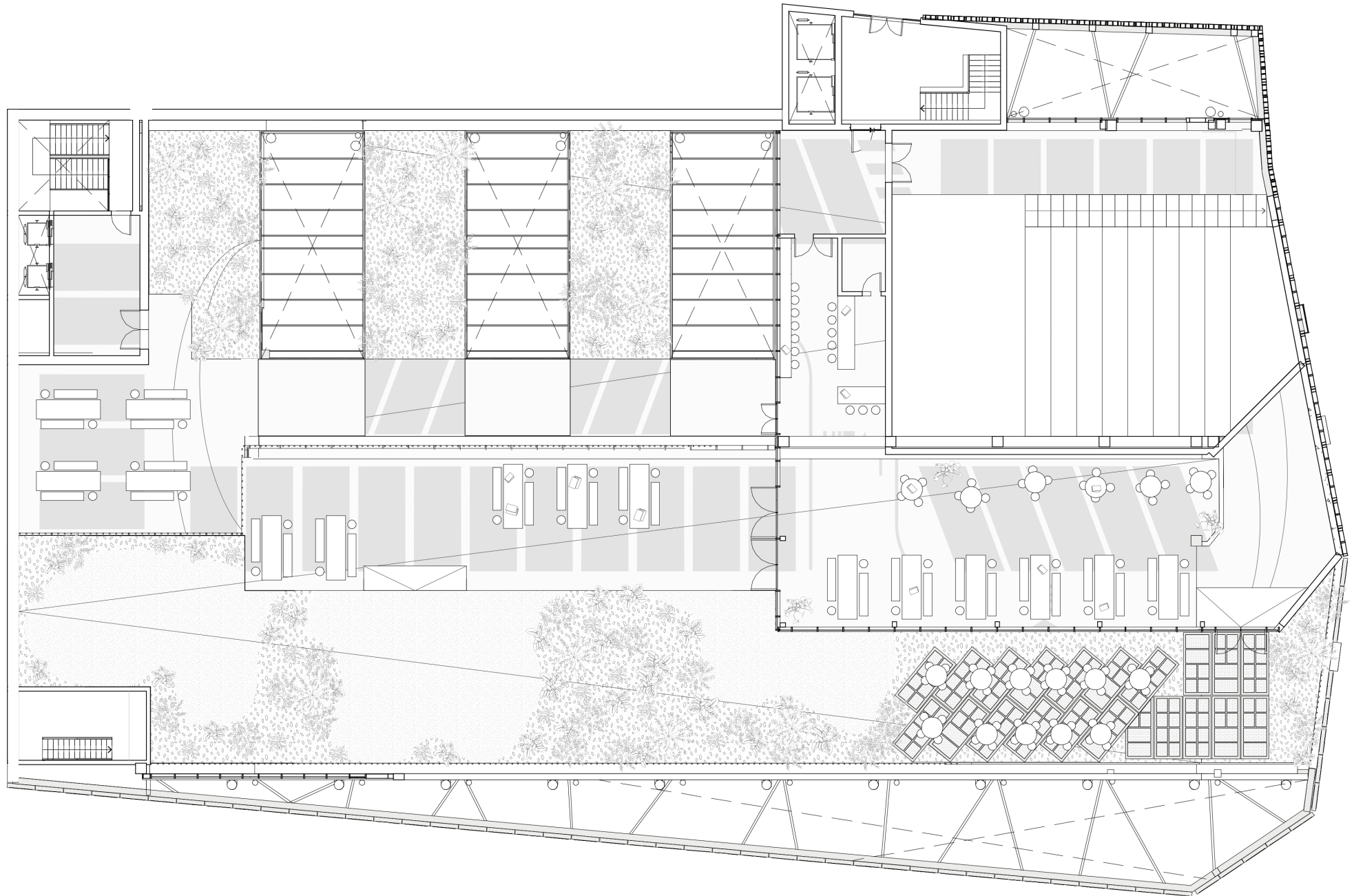
// TU Delft //

// MSc4 / P5 / Interiors Buildings Cities //

Q-Park added + removed plan 6th floor.



1:200



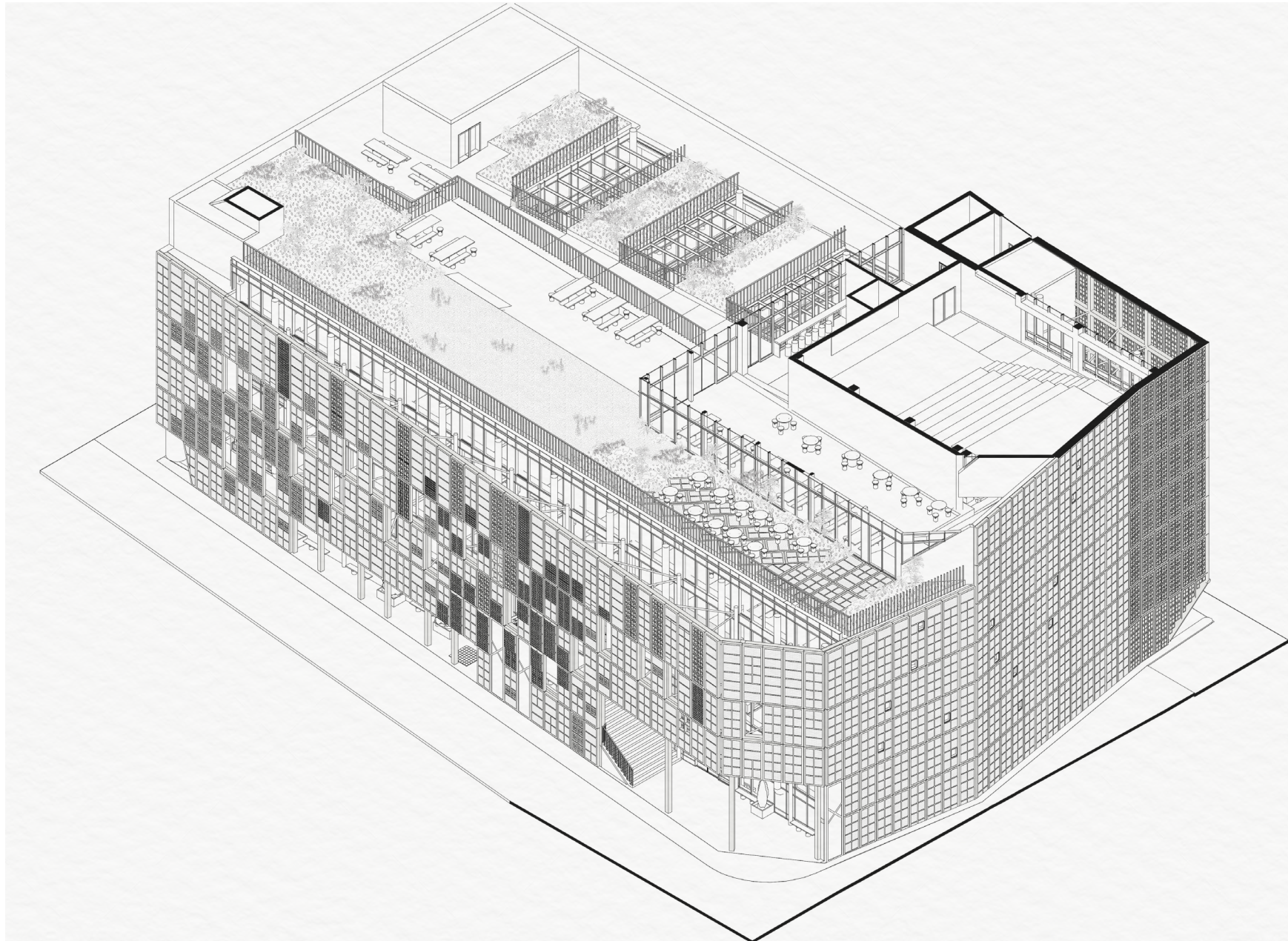
// TU Delft //

// MSc4 / P5 / Interiors Buildings Cities //

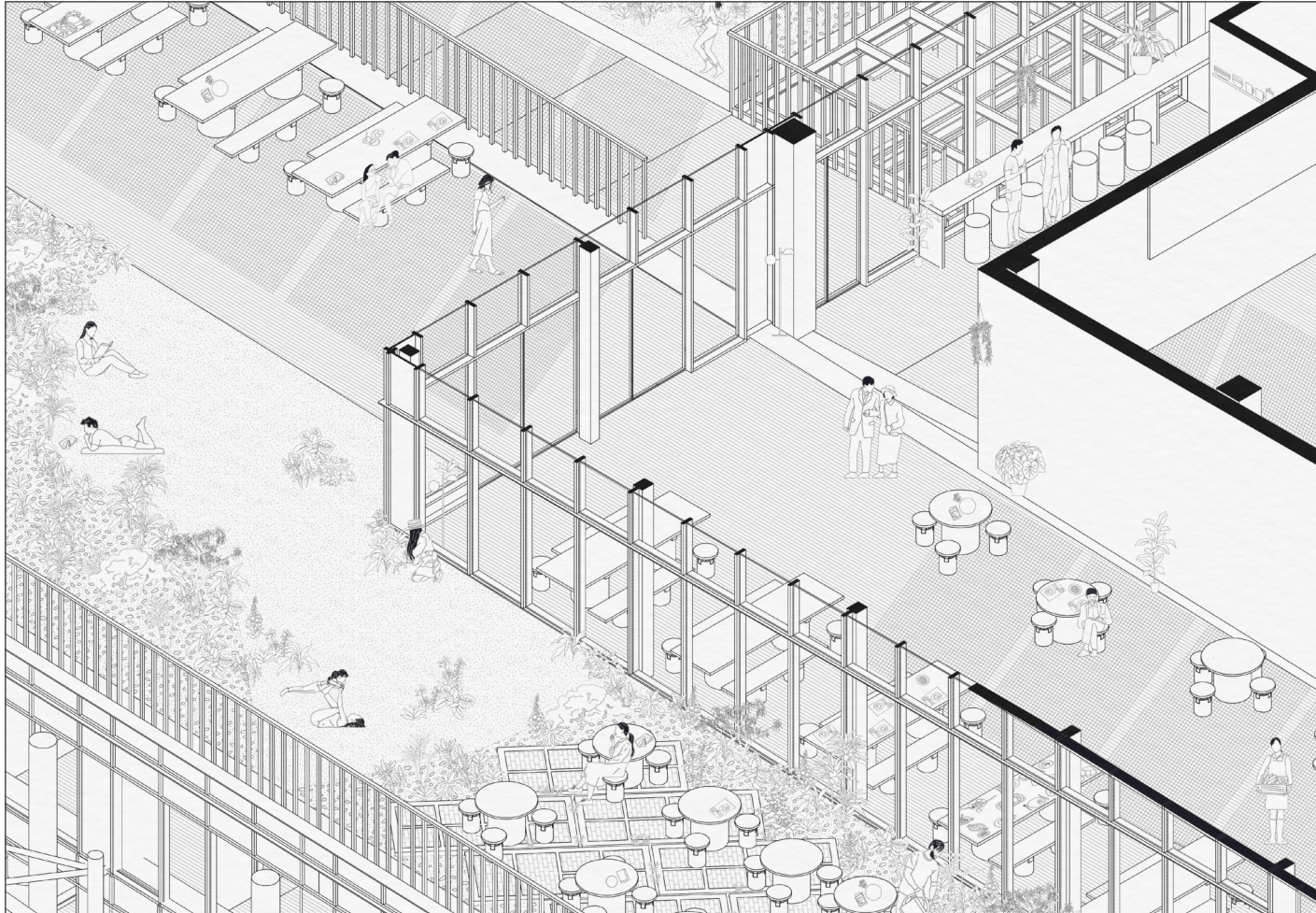
Q-Park new plan 6th floor.



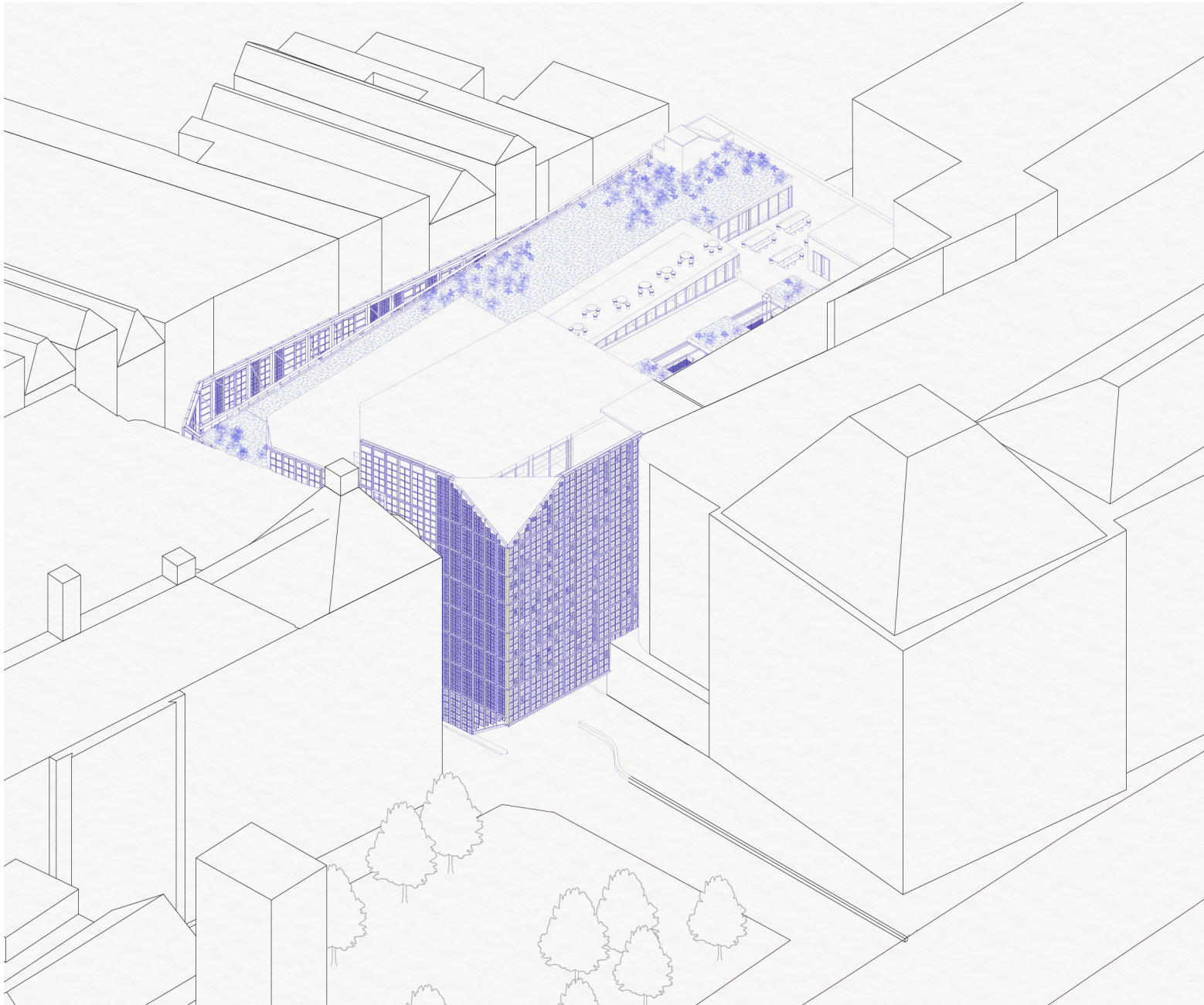
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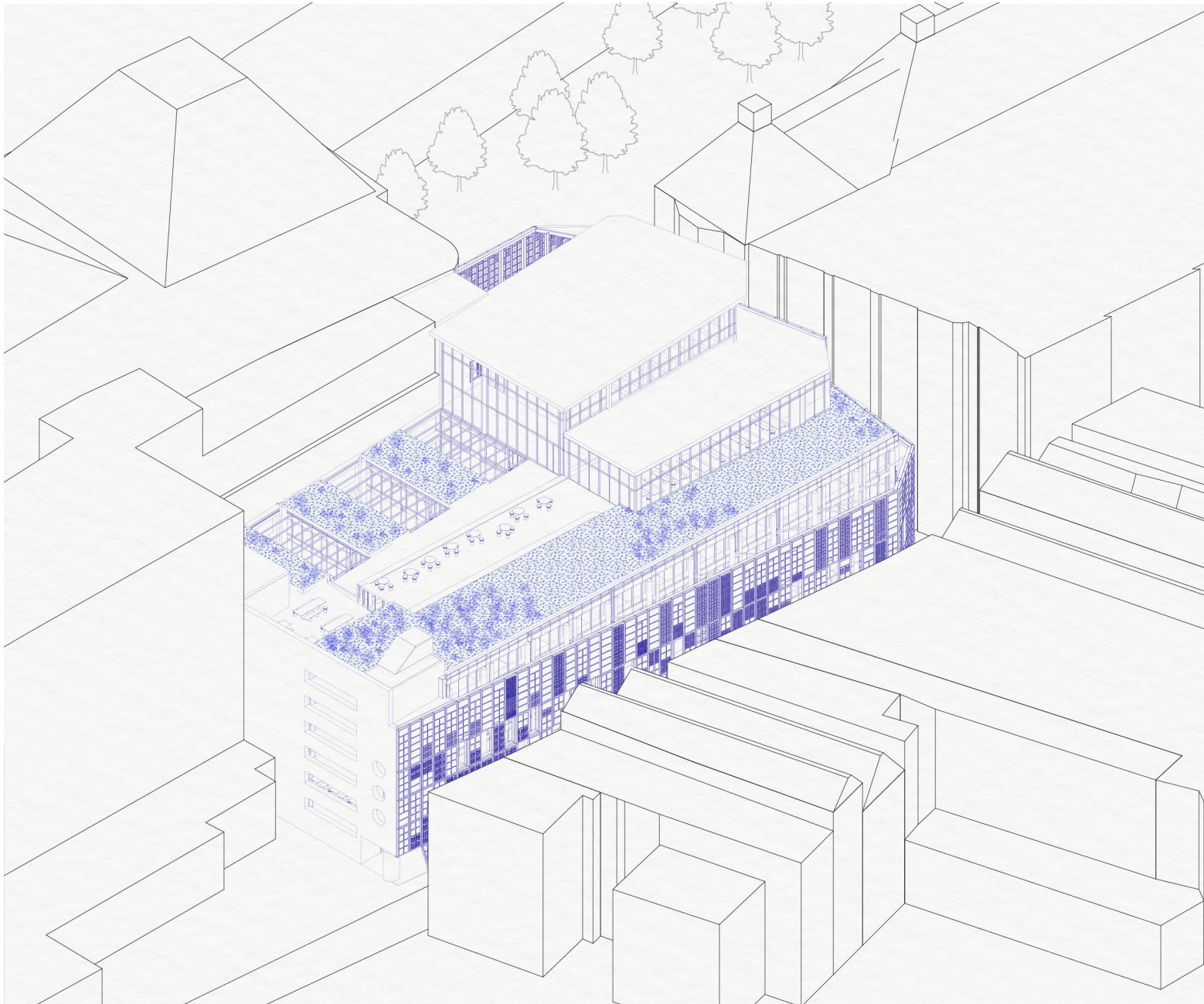
Axonometric 6th floor.



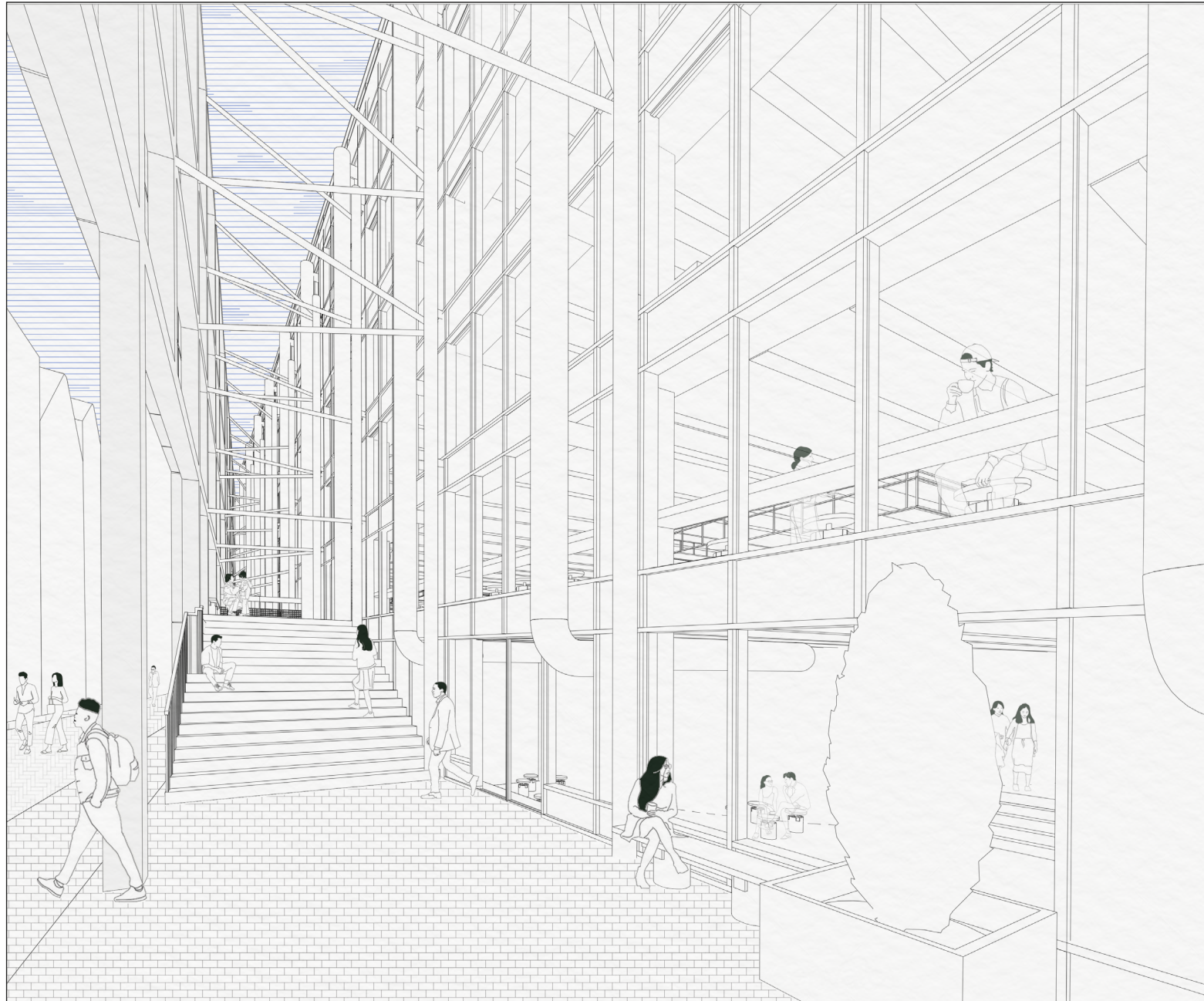
Axonometric action 6th floor



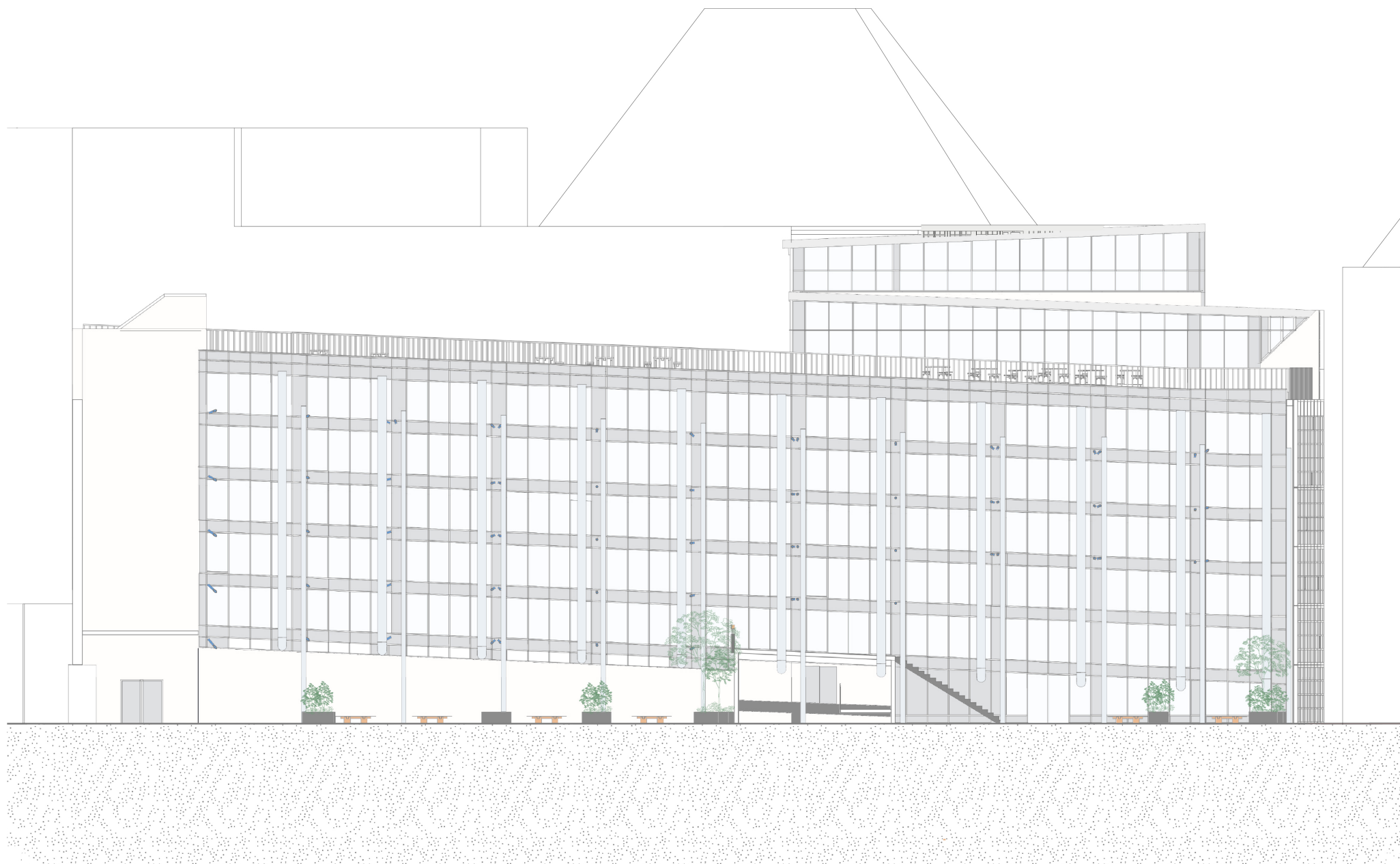
Axonometric transformation Q-park from Beursplein.



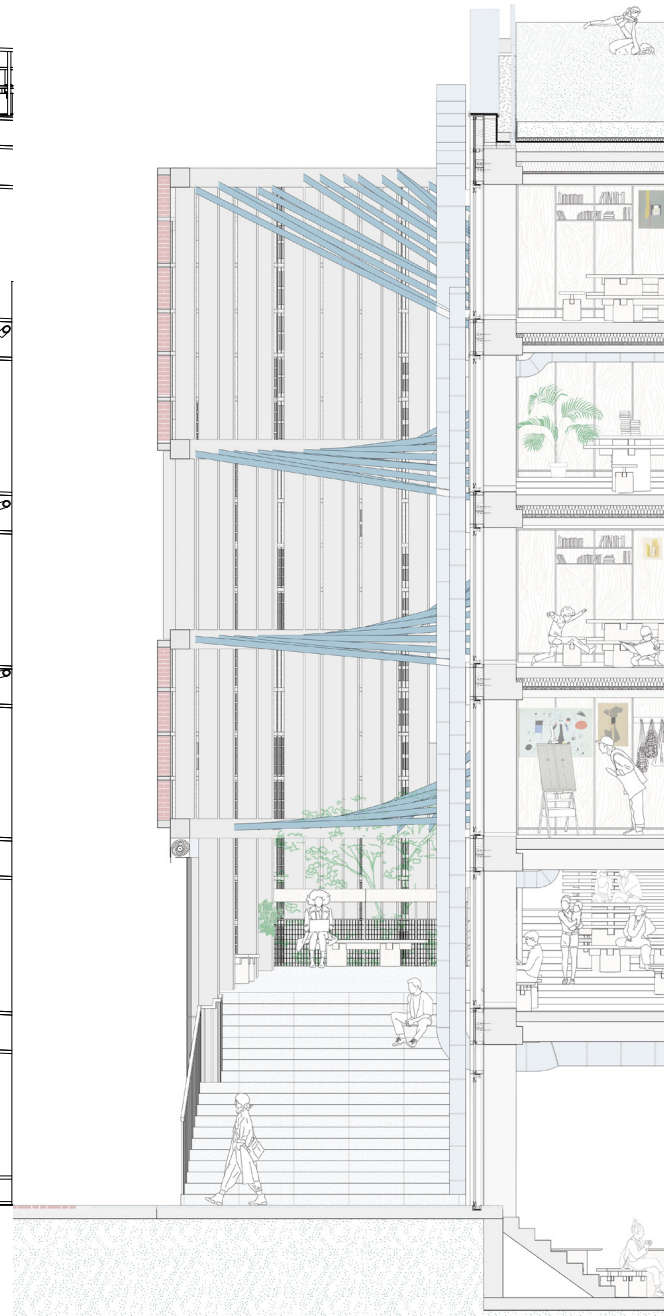
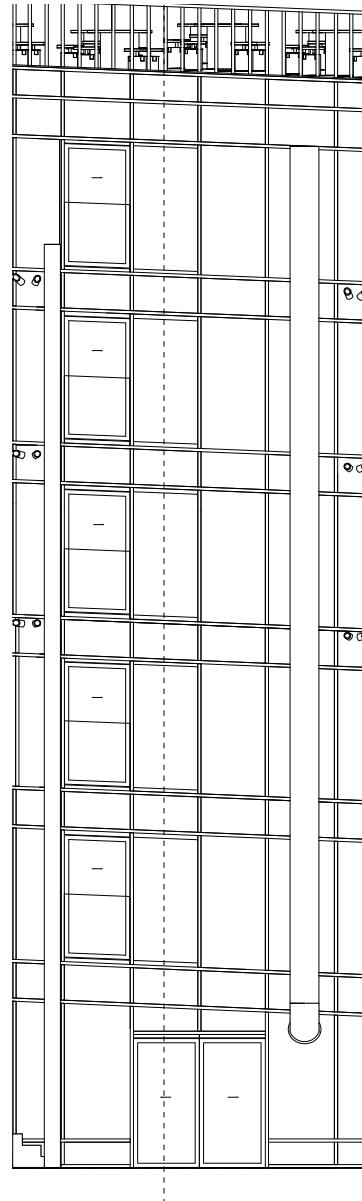
Axonometric transformation Q-park from Beursplein.



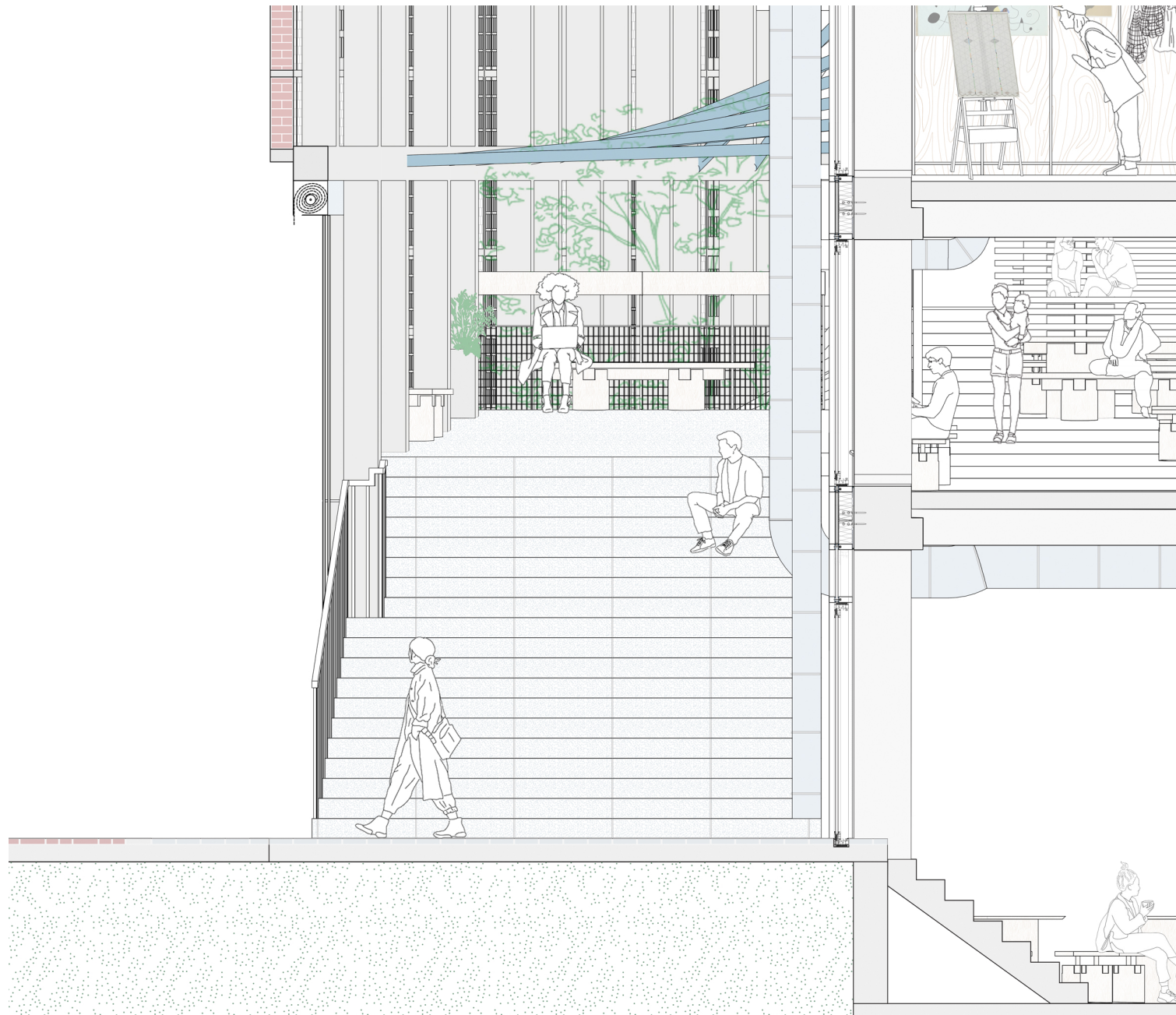
Perspective view of the Warmoesstraat entrance.



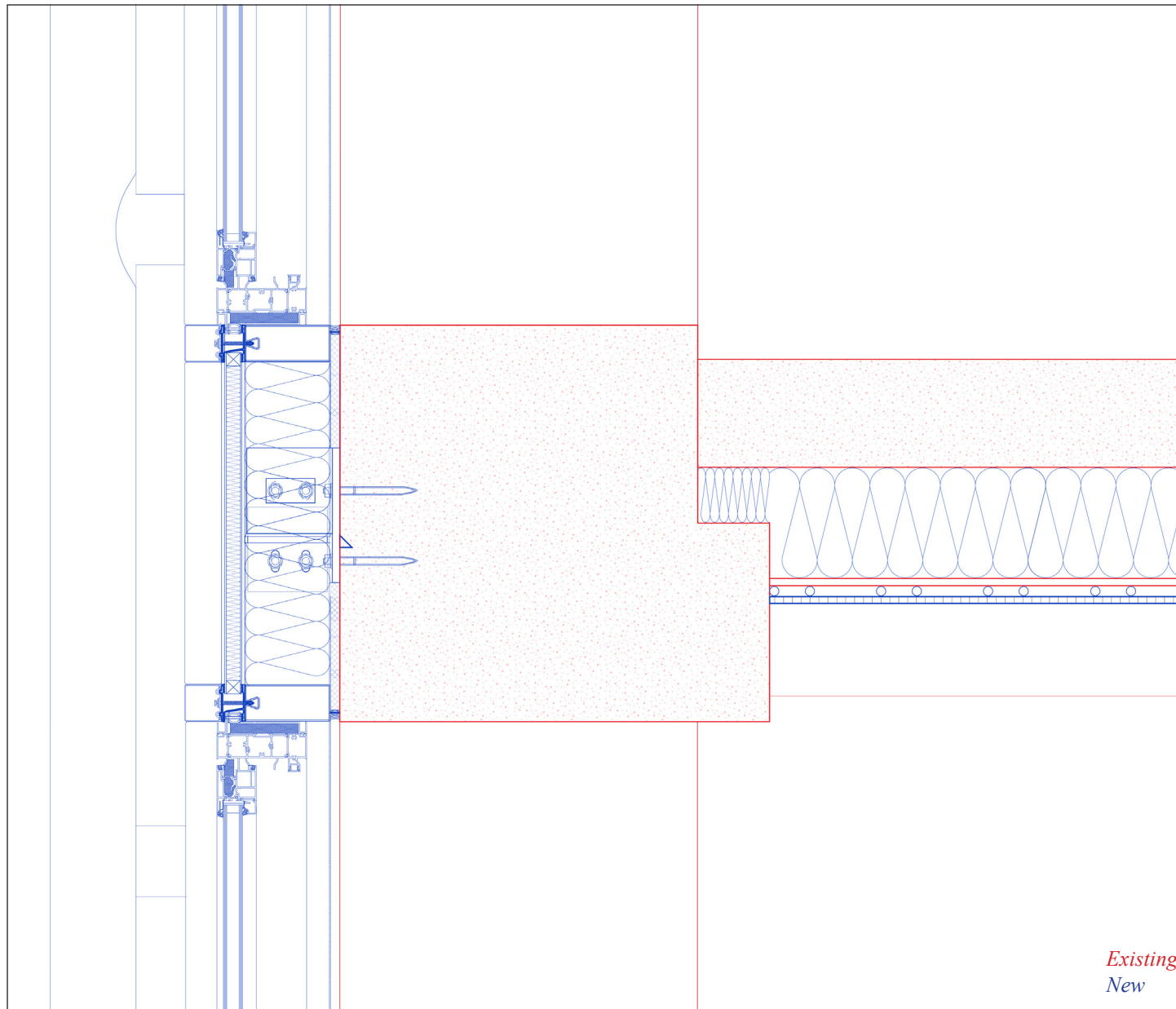
Elevation of new facade extending in front of the existing construction.



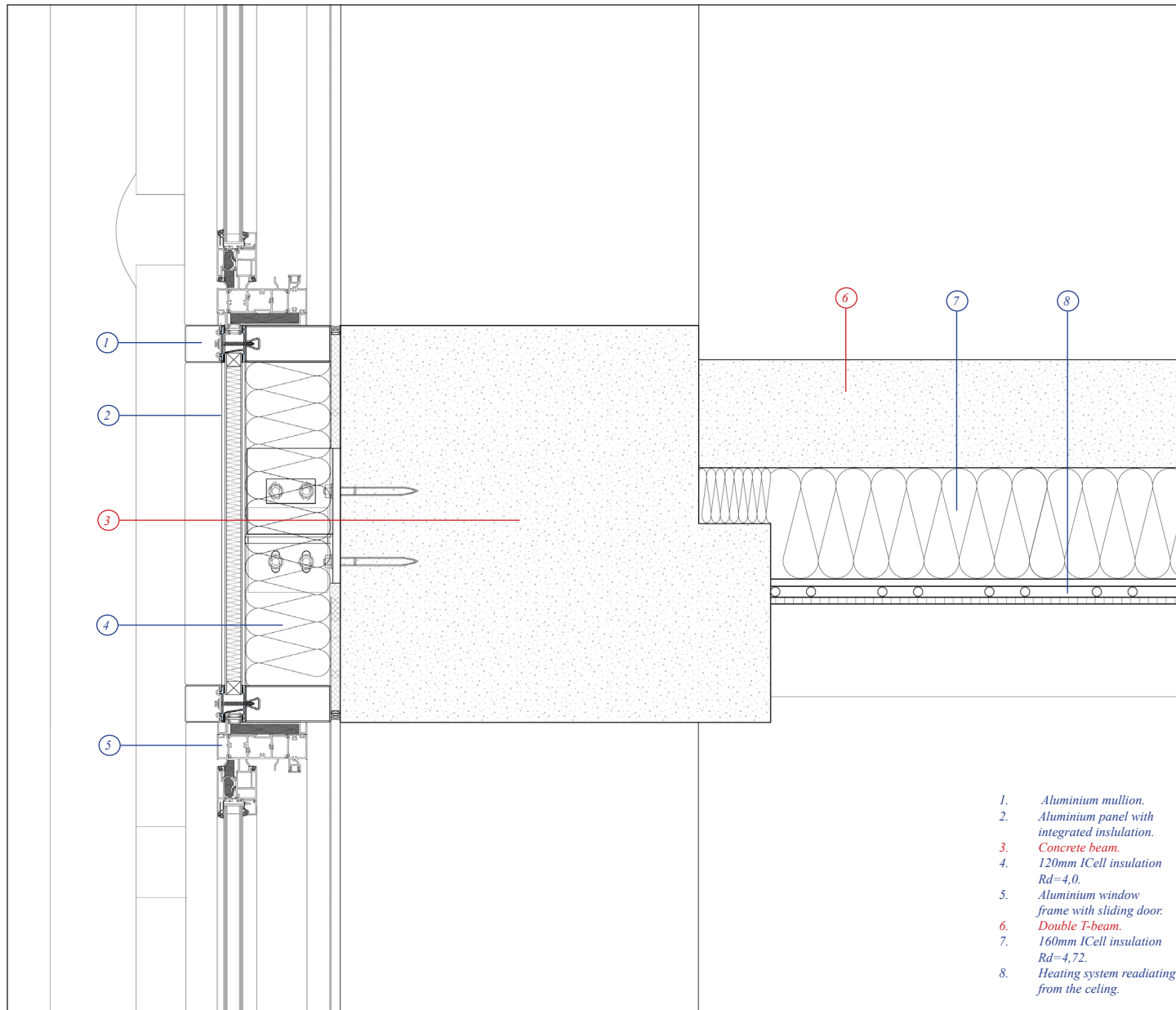
Facade fragments and section showing the connections between the existing and the new facades.



Section showing the how the new facade is connected to the existing structure.

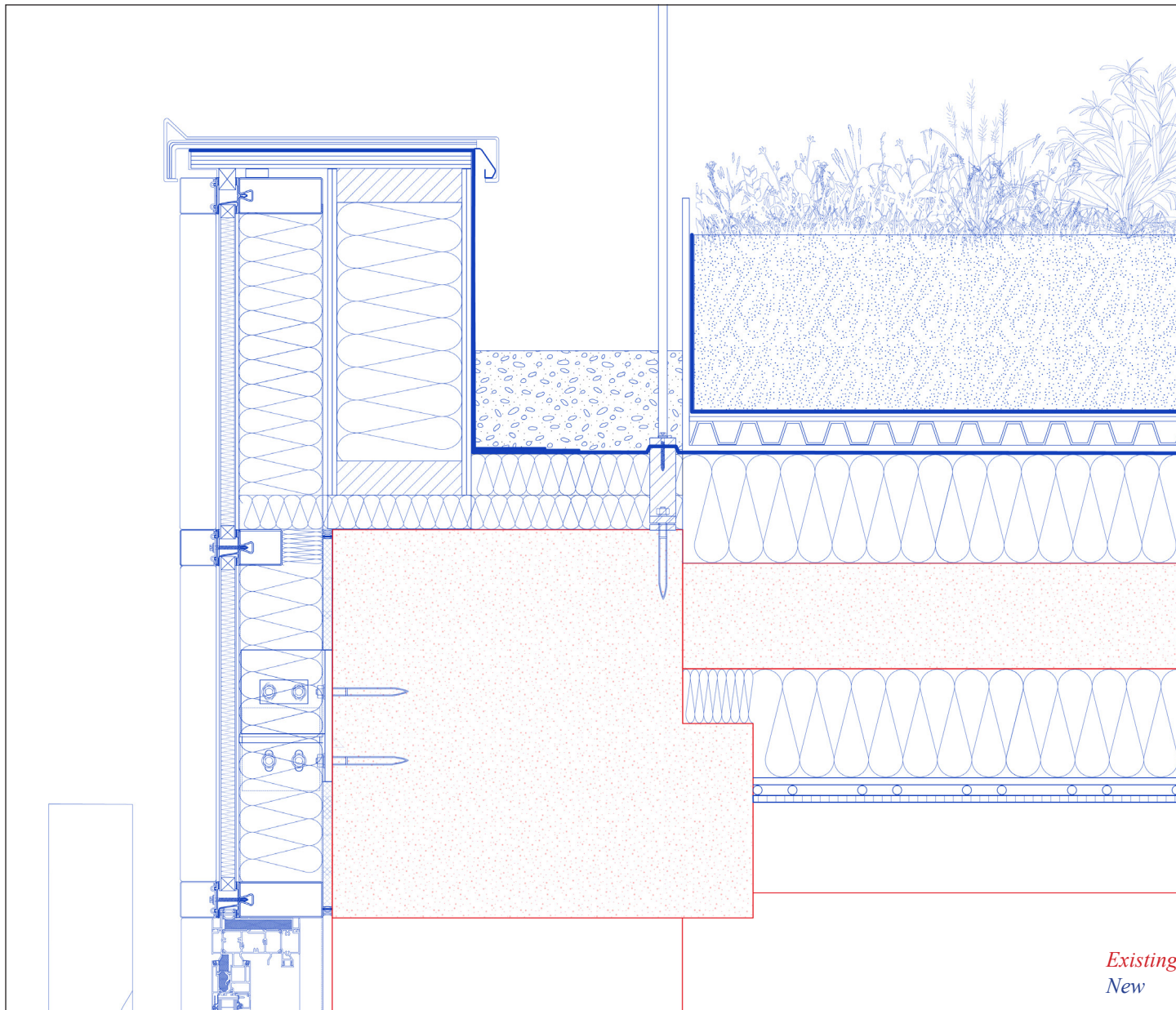


Detail of curtain new wall connection to the existing structure.
Curtain wall is made out of aluminium. Heating system radiates from the ceiling leaving the top of the existing floors exposed. PCM panels are placed above the water pipes.



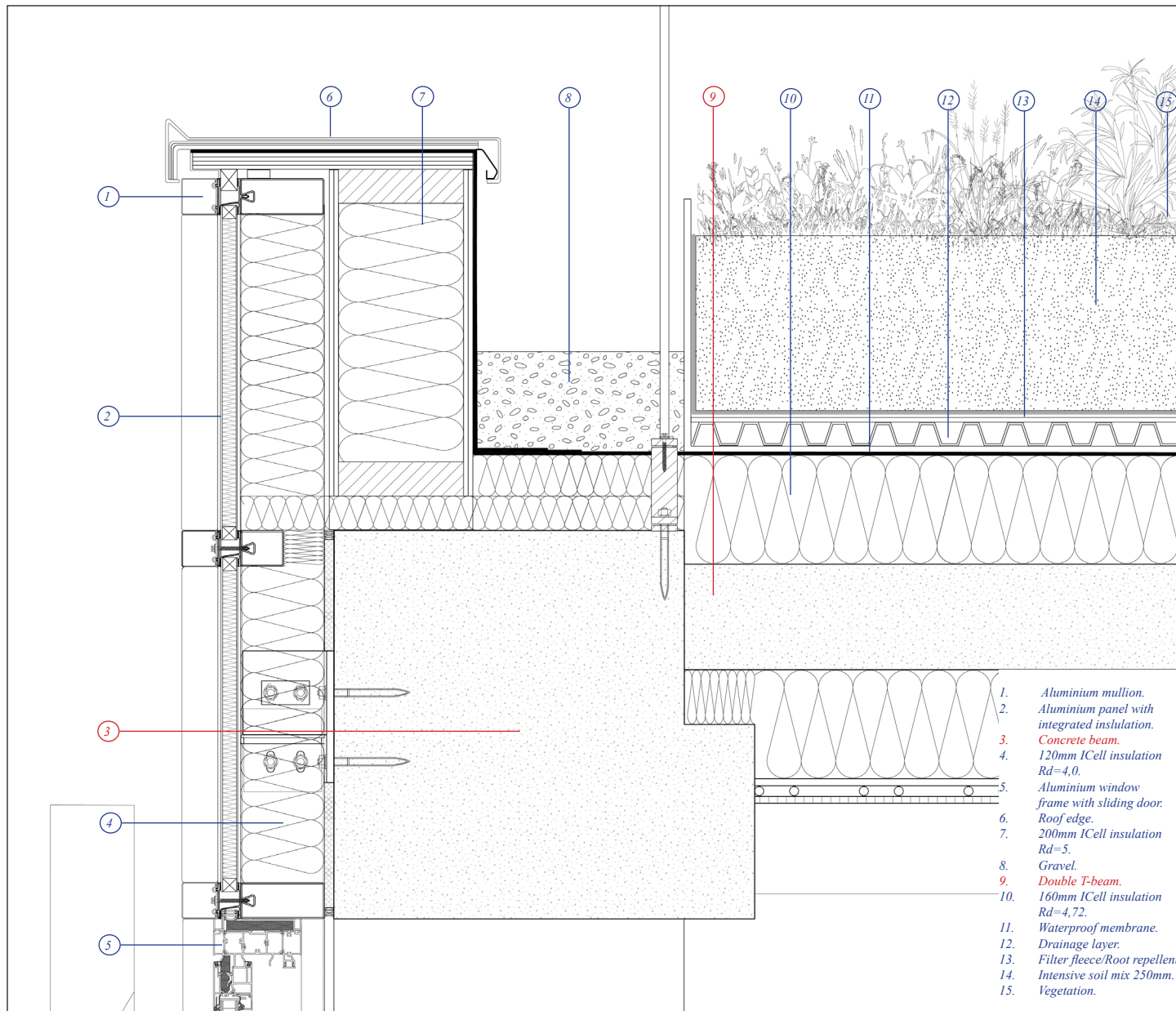
Detail of curtain wall connection to the existing structure

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Detail of green roof.

Curtain wall continues to the roof edge. A intensive green roof is placed on top of the existing floors to locally insulate the hotel rooms below.



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The hotel room, photo of the model.

The hotel room does not conform nor it wants too, the contrast between the new and the existing is experienced through the contrast in materials and the different heights created by the plateaus.



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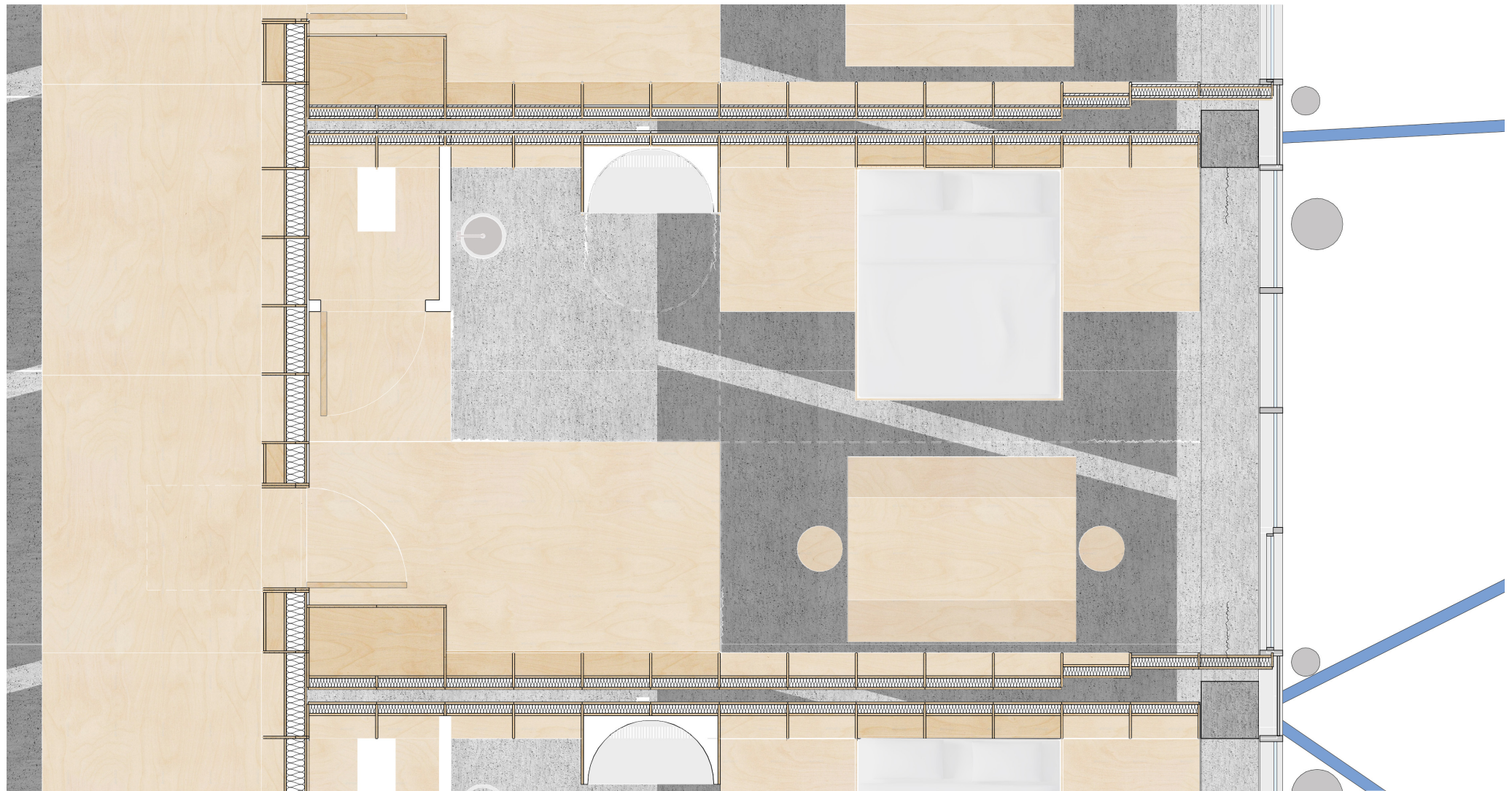
The hotel room, photo of the model.

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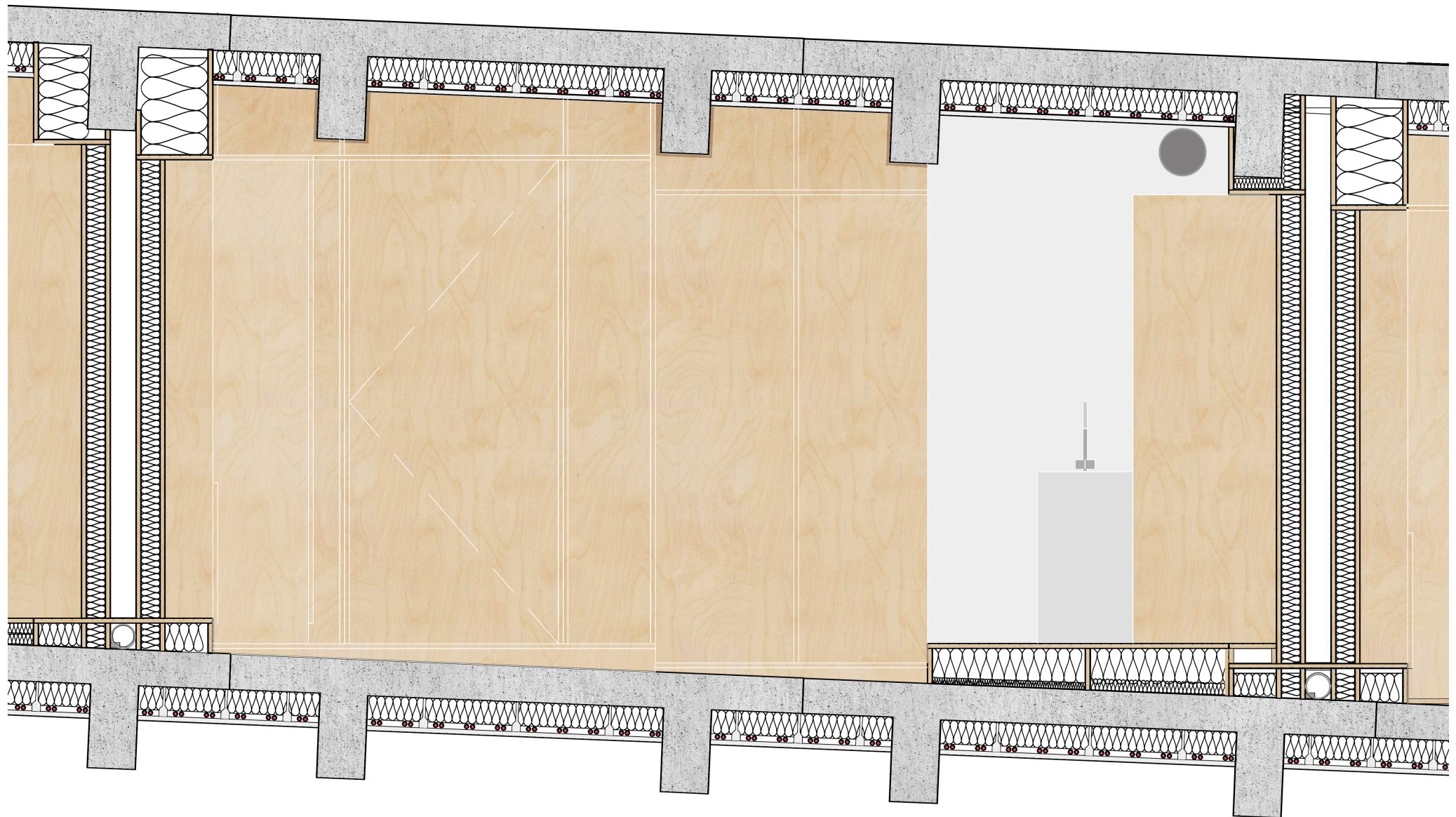


The hotel room, photo of the model.

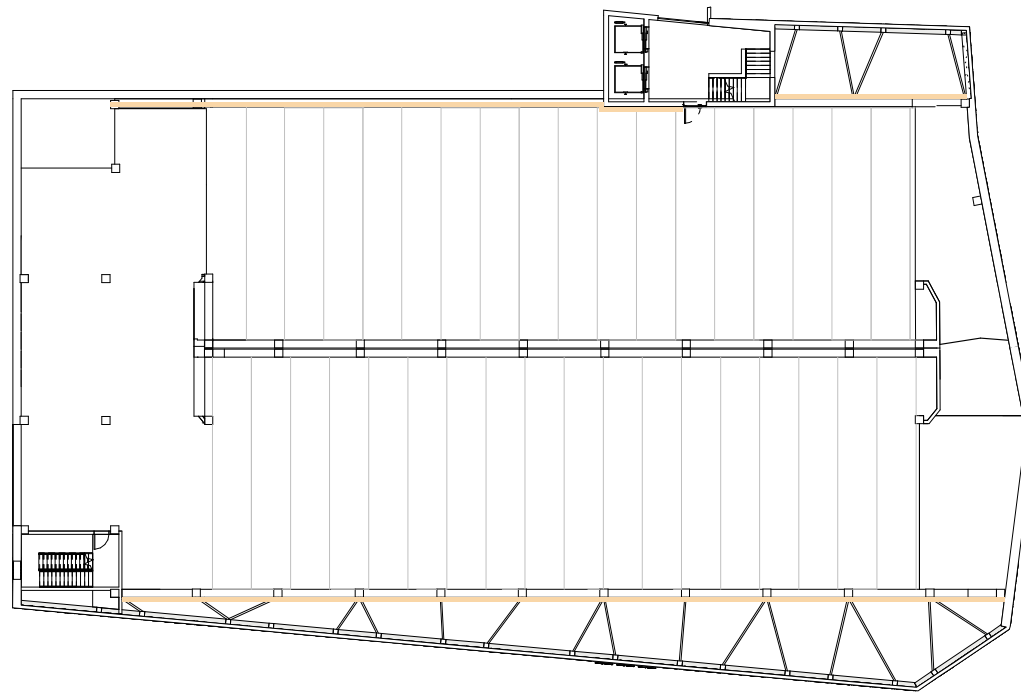
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Hotel room plan.



Hotel room section.

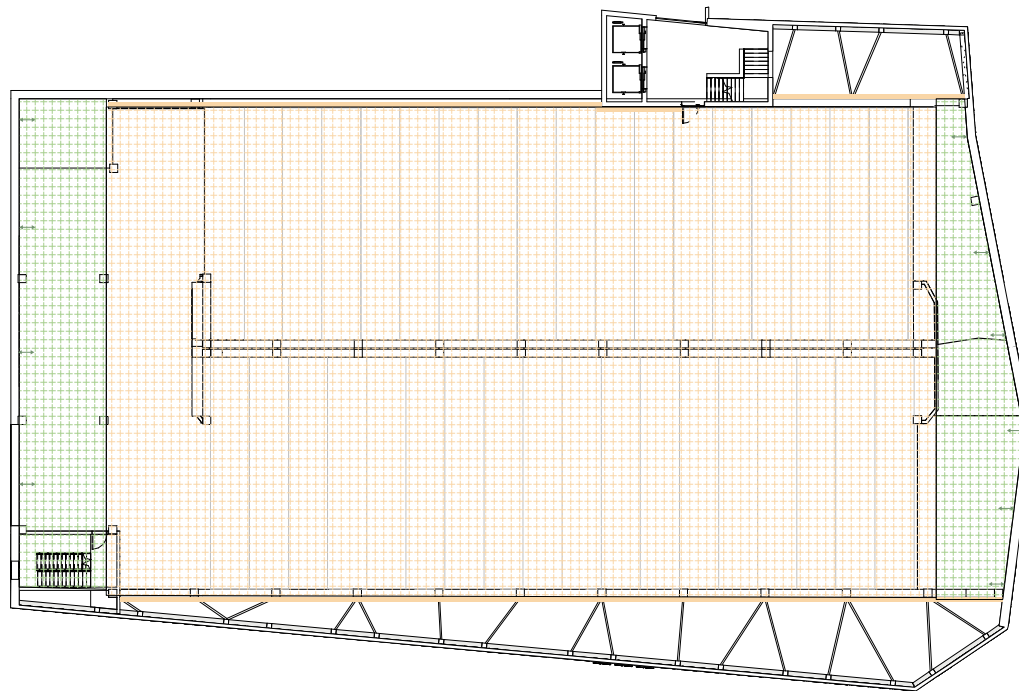


Insulation layers

This closes the building off making the existing construction warm.



1:500

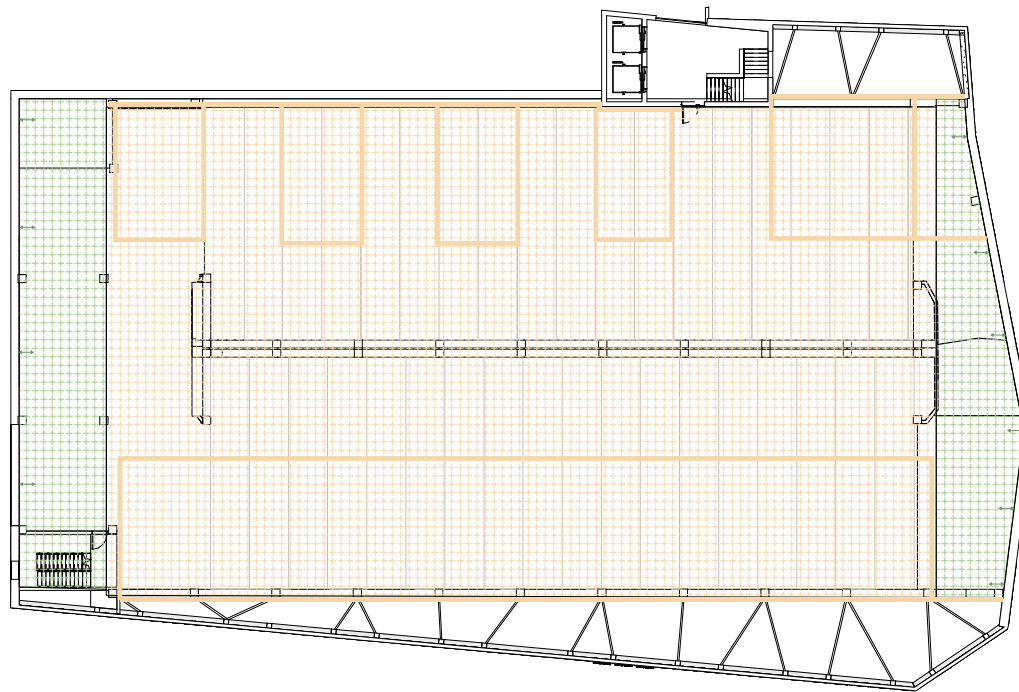


Buffer zones.

At the extremes, where the existing facades are, a buffer zone is created. This follows the idea that after 1m of concrete there is no cold bridge.



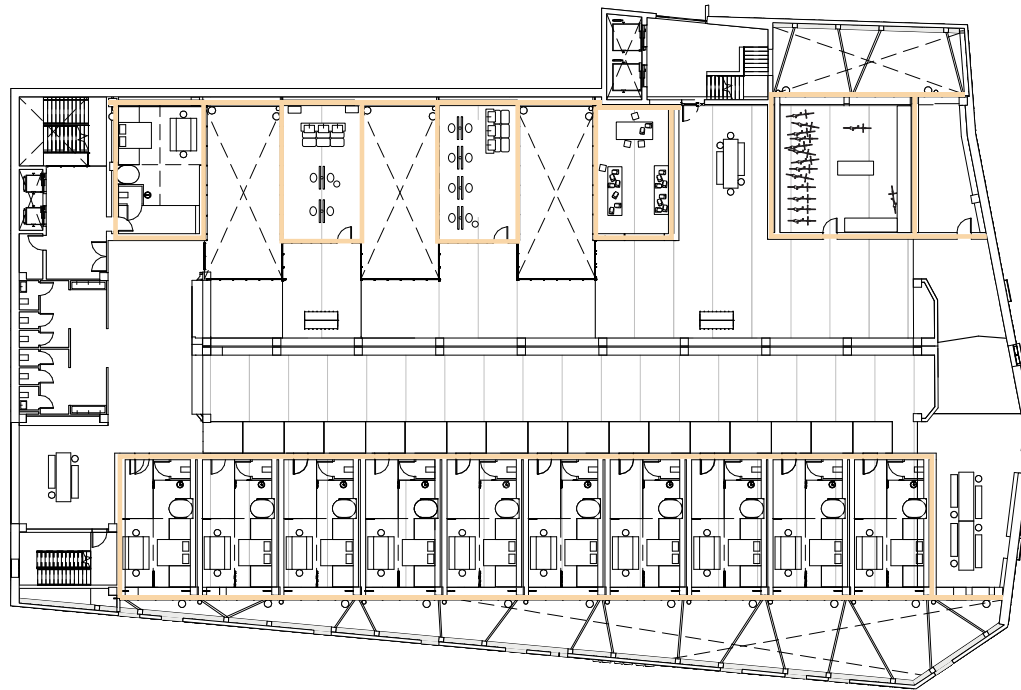
1:500



Additional insulation layers.
 Enclosed spaces have an extra insulation layer.



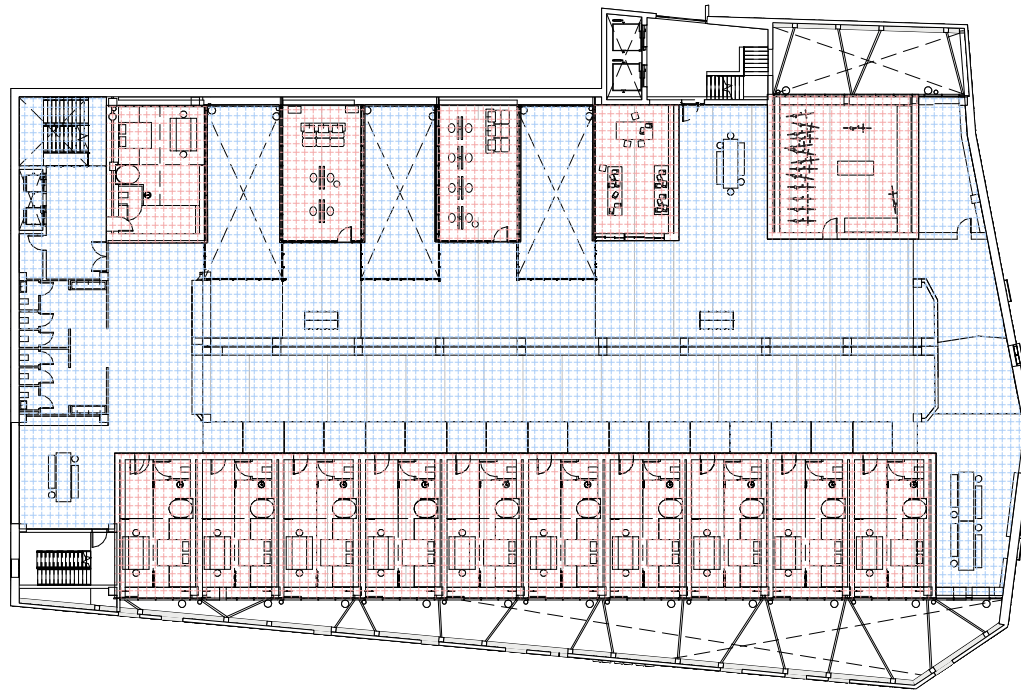
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1:500

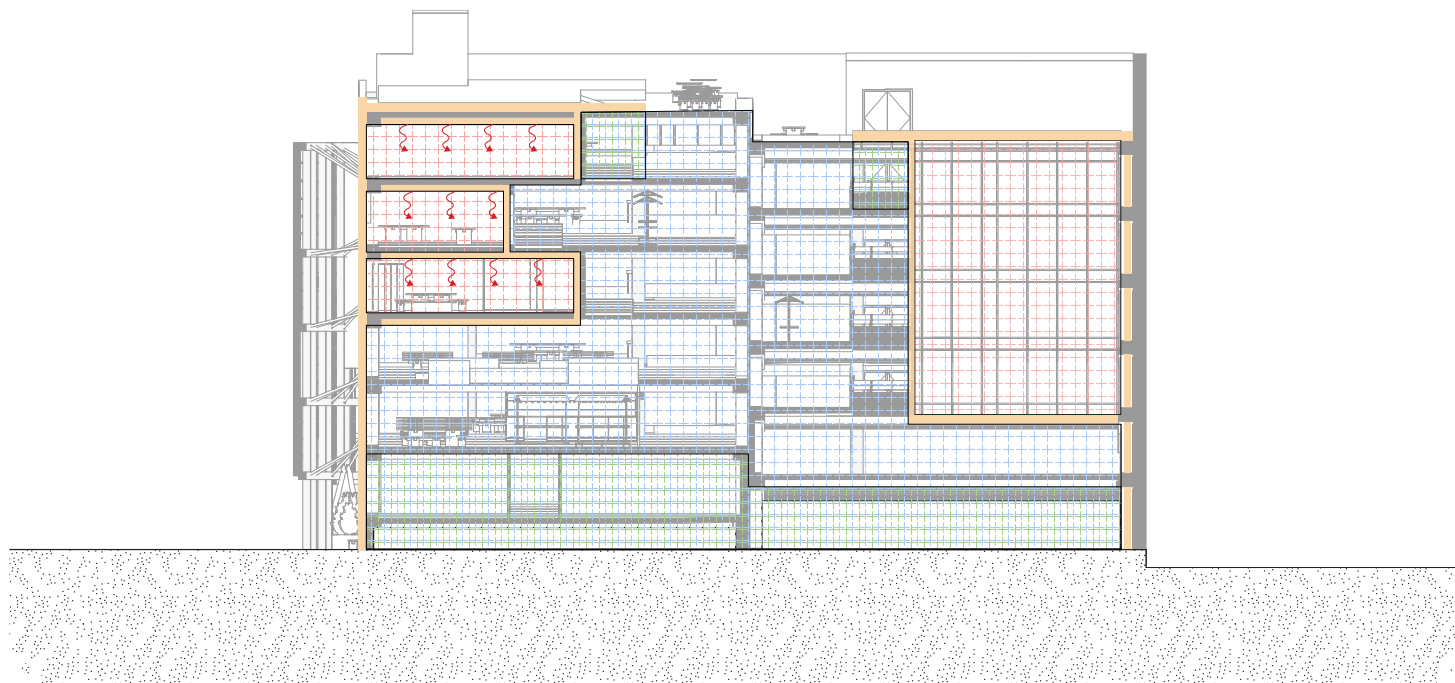


Climate zones.

The insulated enclosed spaces are heated while the circulation spaces remain cool.



1:500

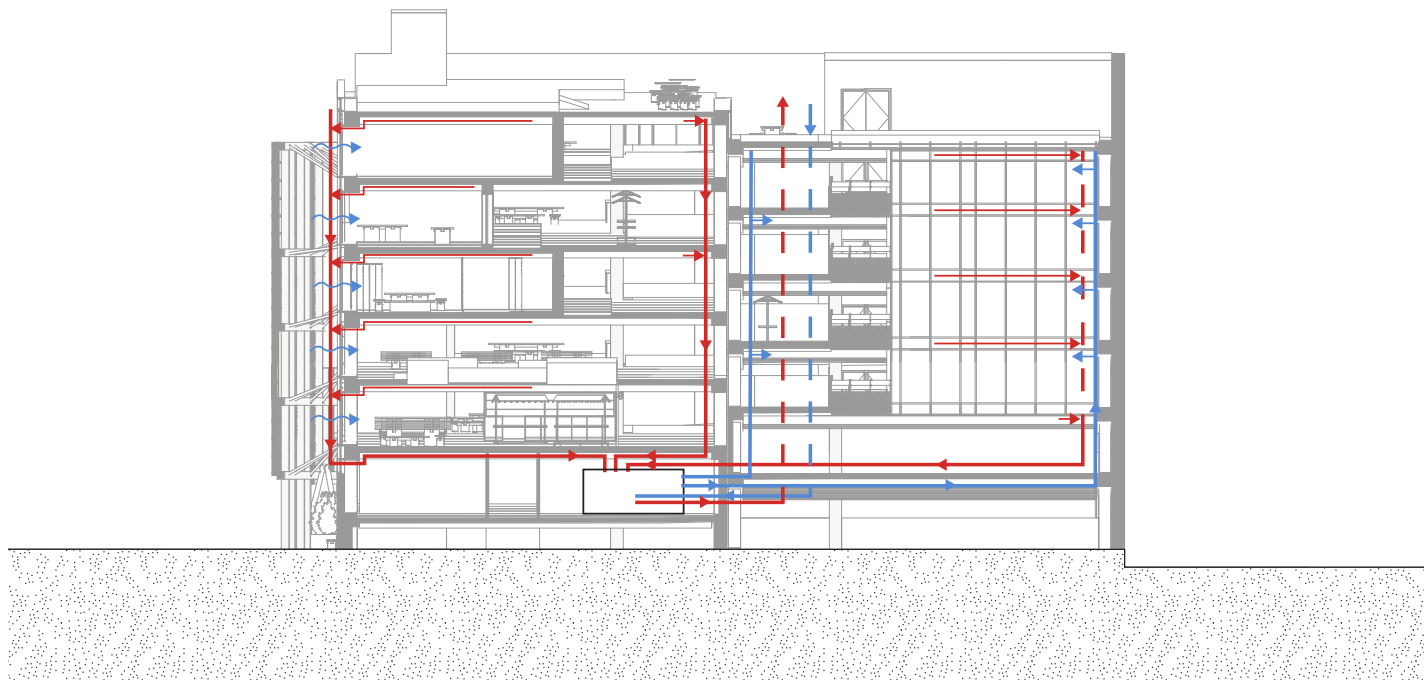


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1:500



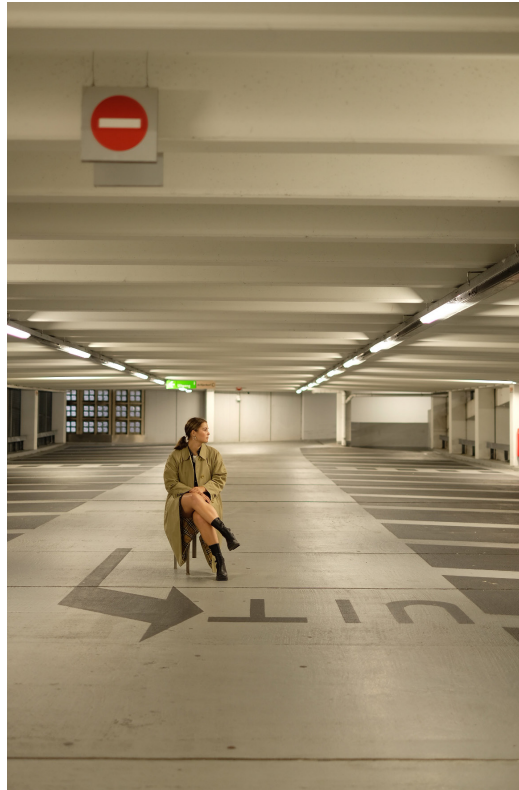
Ventilation Diagram.

Ventilation system is a mix of type D and C. One Side is natural feed and mechanical evacuation (type D) and the other side is fully mechanical (type C).



1:500





Thank you.