

ISTITUTO *Marchiondi* SPAGLIARDI

REPURPOSING THE EX-REFORMATORY INTO AGE-FRIENDLY HOUSING

PROJECT BRIEFING

The istituto "Marchiondi" spagliardi is a remarkable monument that is a defining element of Italian brutalist architecture. Built in 1957, it is a timeless beauty that has withstood the test of time, reserving its unique essence and standing as a testimony for the brilliance of Vittorio Viganò. What was once viewed as a unique approach to reformatory planning, has now become an abandoned ruin, where it had closed its doors permanently to the public.

Due to the great significance of the building on Milan's architectural landscape, several revival interventions have been proposed but sadly they were all destined to fail.

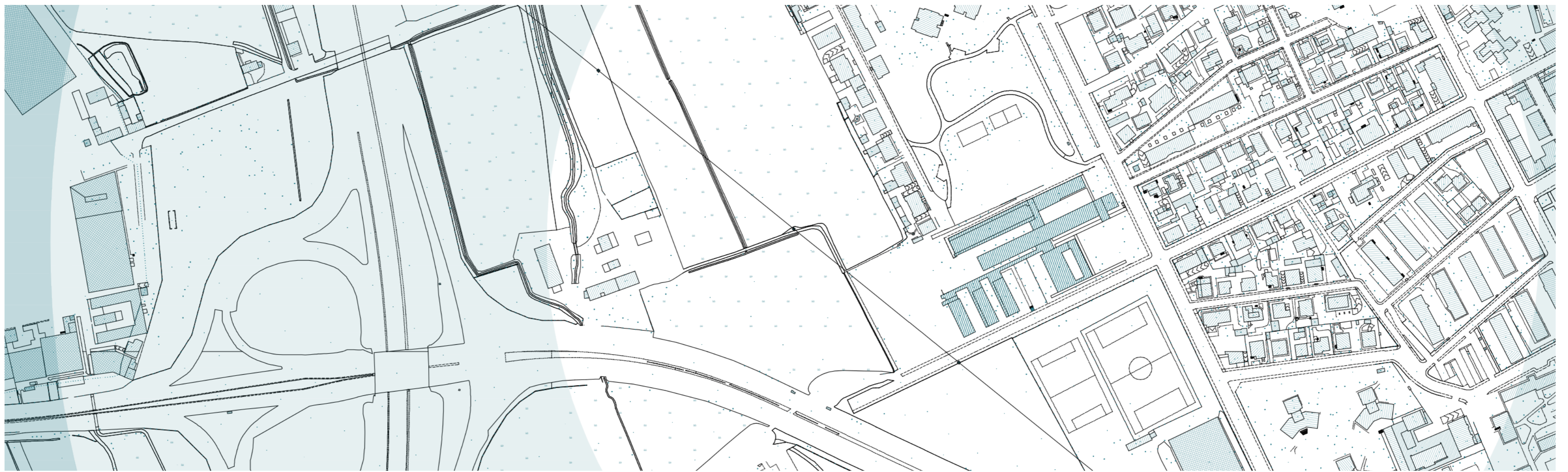
This research and design project aims to revive the original design. It intends to honor the legacy of the building by restoring the complex to its pristine condition. And propose a new functional program for the whole complex.

But in order to forge a new future for the complex, it is essential to dive deep into the history of the project. The building was designed to serve as a home for troubled kids instead of a place of confinement. It was designed as a free space without bars or fences. Instead it offered the children a chance to roam freely in a place where they can call home. A place where they wouldn't want to escape from.

This design project replicates the original sense of a cohesive and complete community, by proposing an intervention to transform the complex into age-friendly housing, with the appropriate facilities to ensure easy accessibility and useful functionality for users of all ages and disabilities. Effectively breathing life into the old ruins of the istituto "Marchiondi" spagliardi.

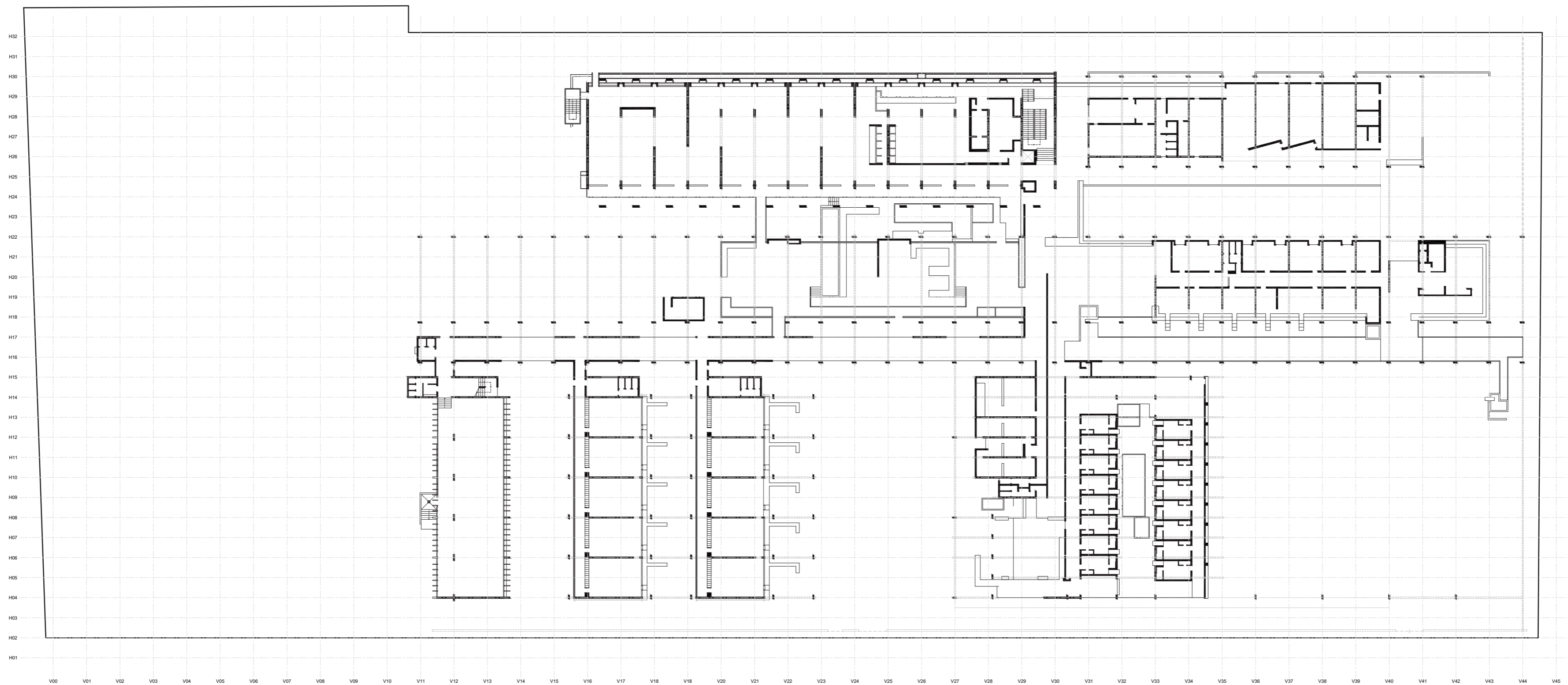


PROJECT LOCATION

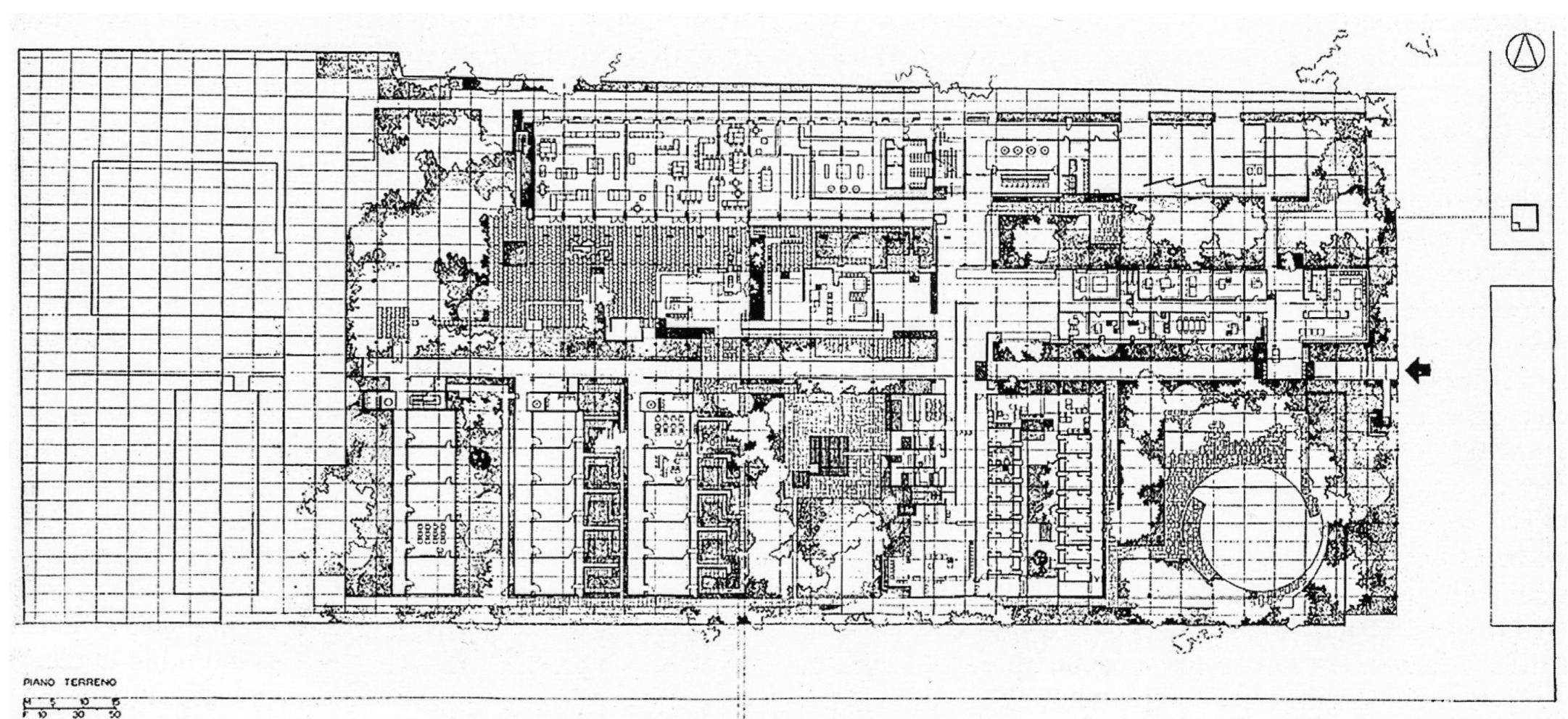
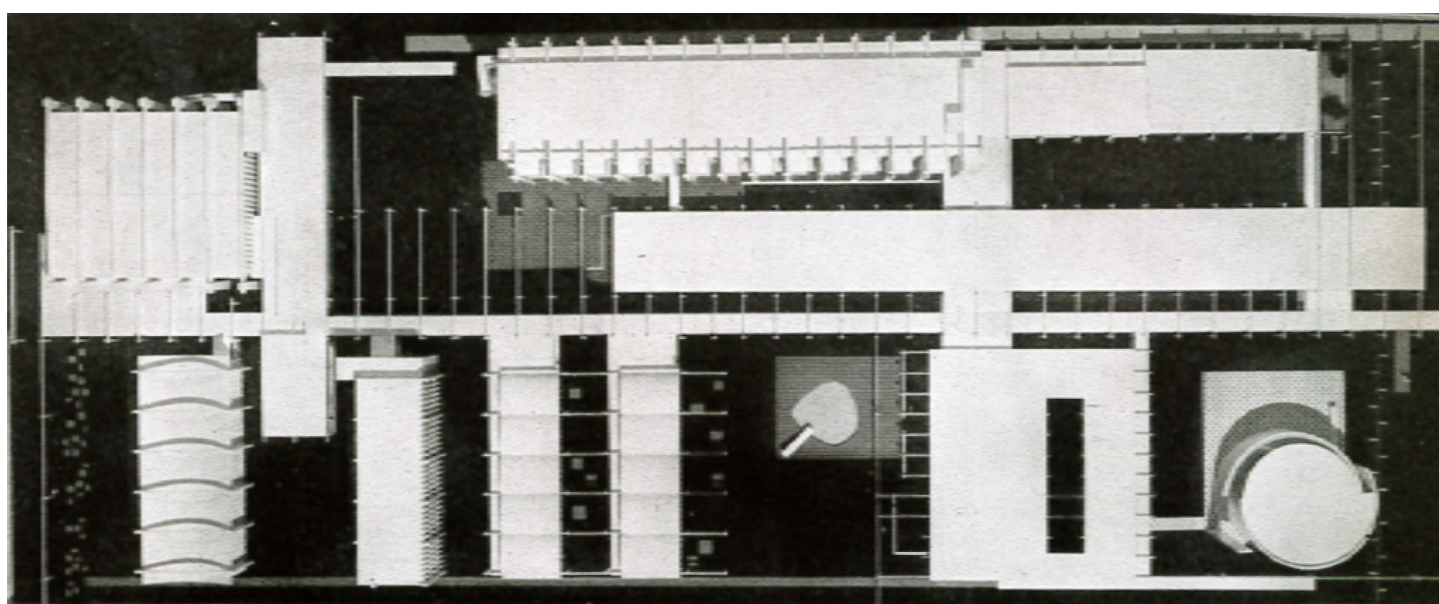


ANALYSIS OF THE PROJECT

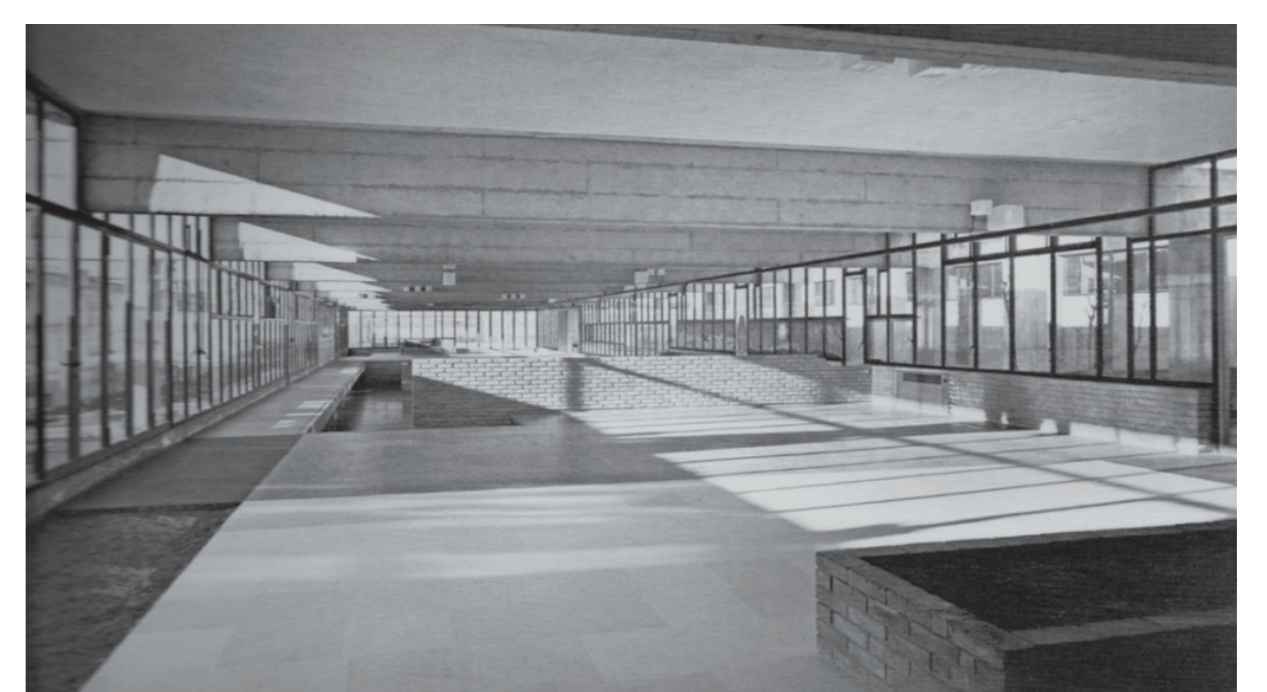
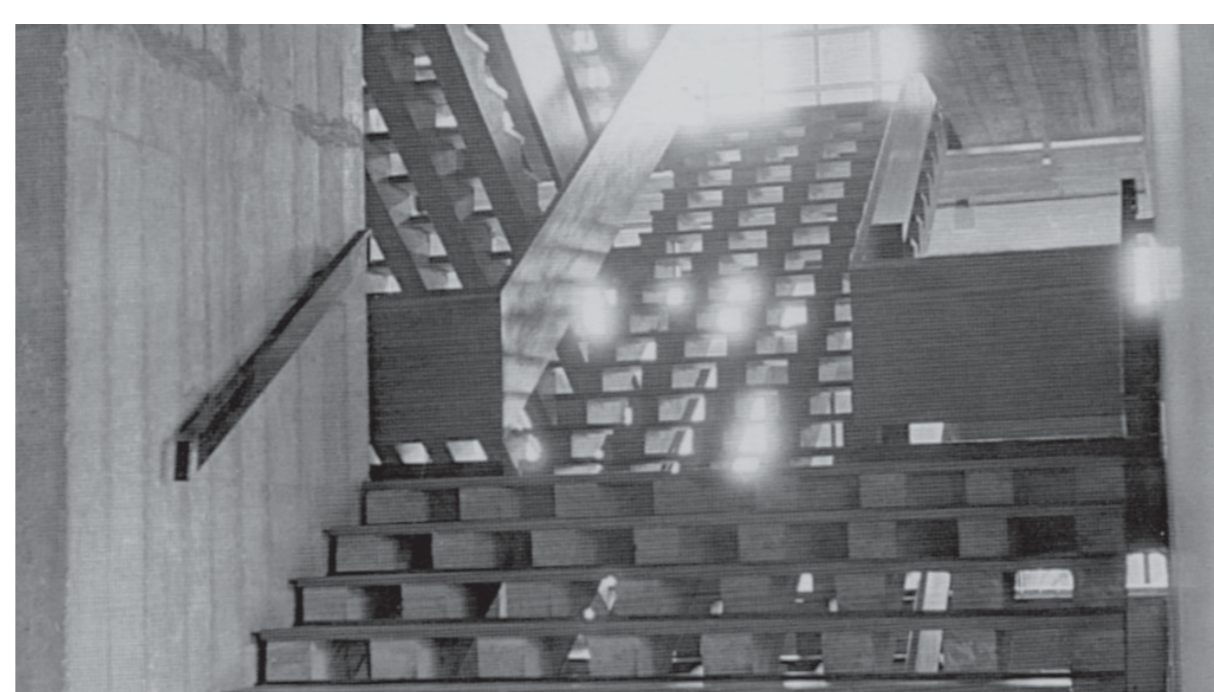
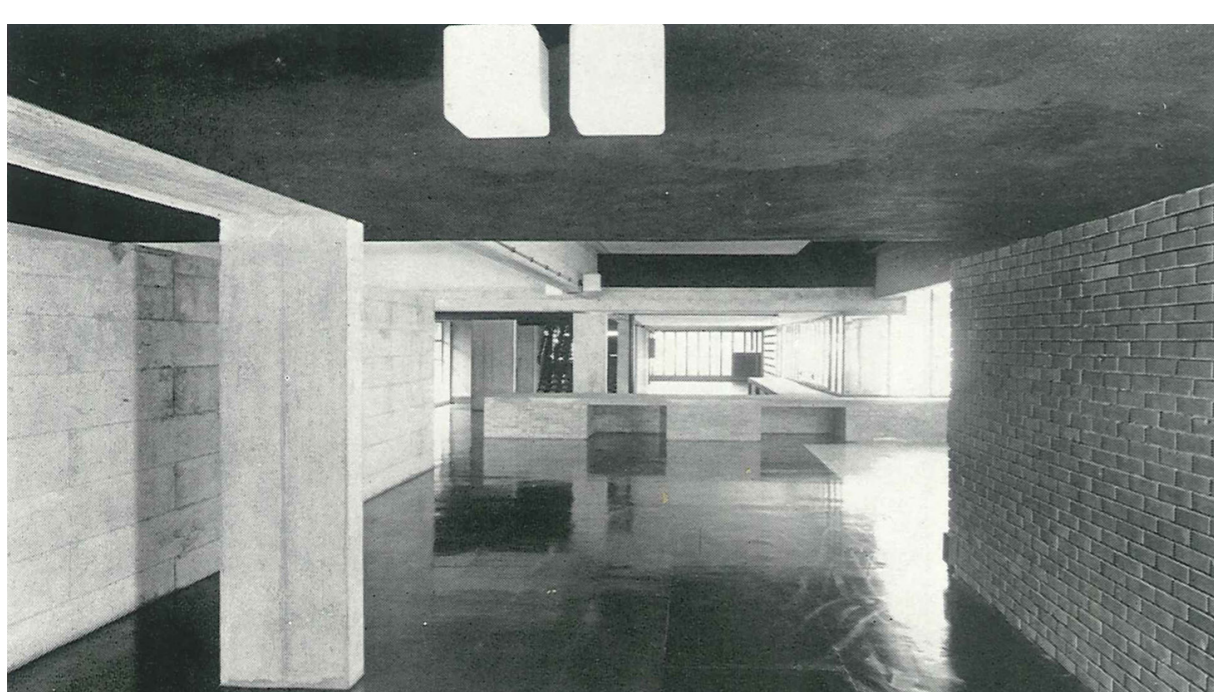
RECREATION OF THE PROJECT PLANS



ORIGINAL MASTERPLAN

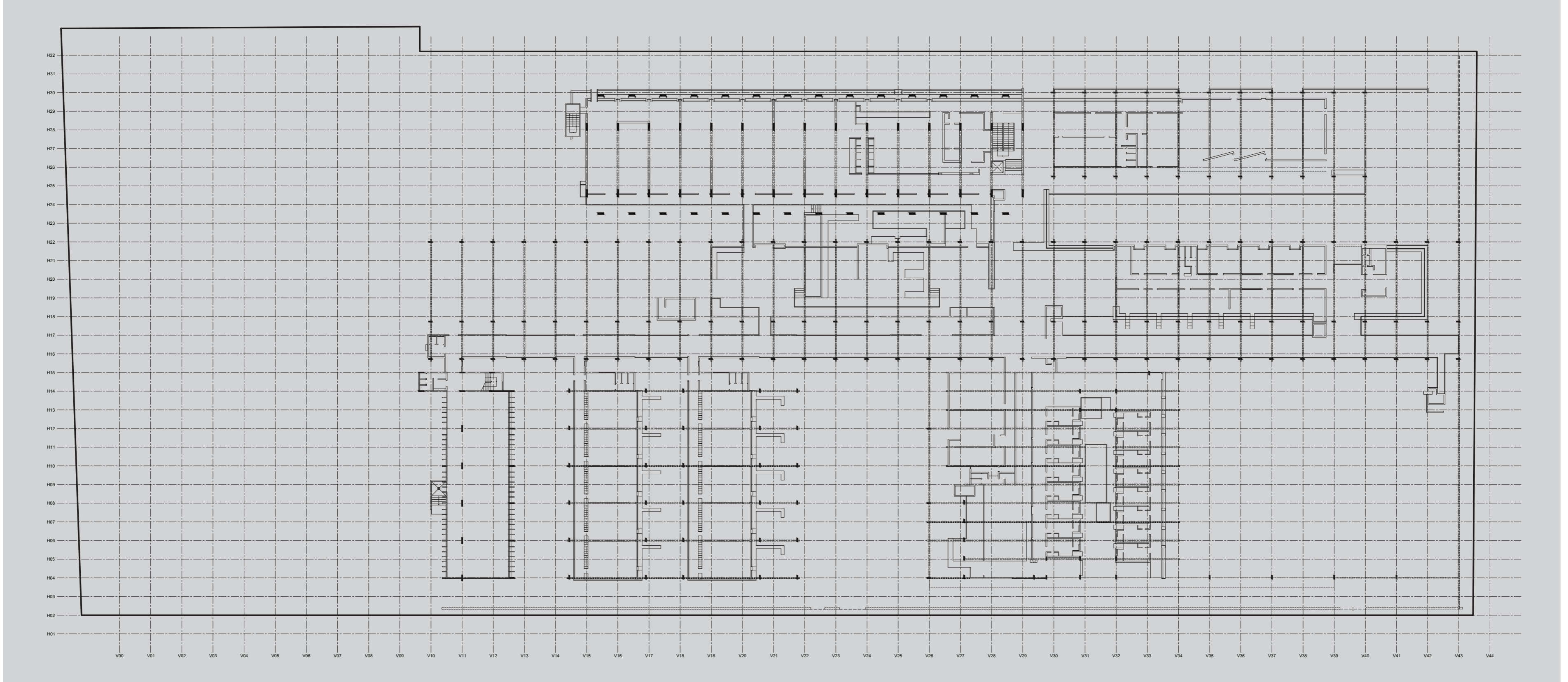


ORIGINAL PHOTOGRAPHS

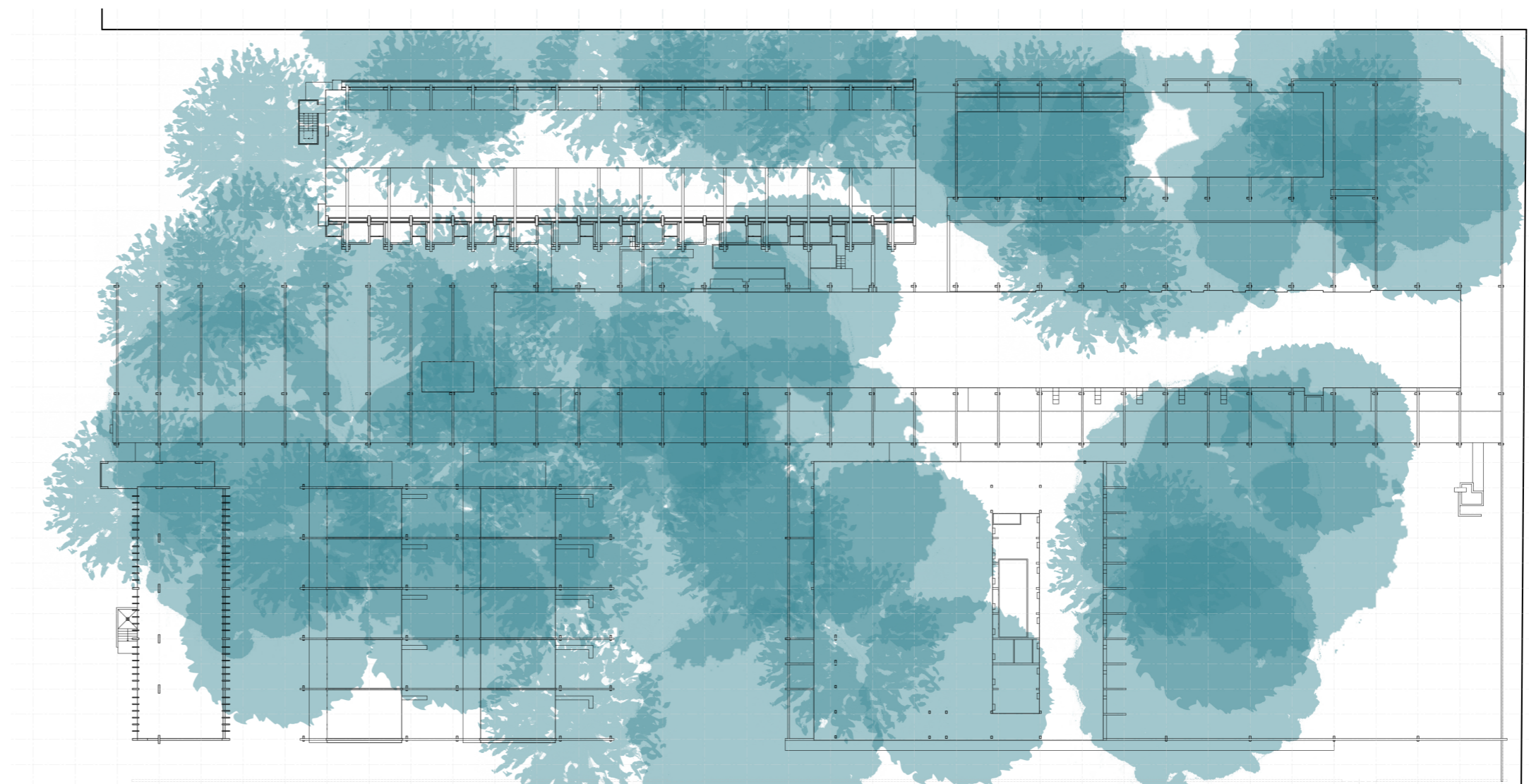


CURRENT STATUS OF THE BUILDING

PLAN OVERVIEW



As the building have been neglected over the years, an over growing infestation of plants have taken over the open space. This infestation has affected the plot greatly, as now most of the previous courtyards have been completely blocked off from exposure to the sun. While these overgrowing plants represent a safety hazard to some of the buildings, and an inconvenience to the open courtyards. They also show a good sign of fertile soil. As they have grown wildly through the complex without being tended to.



STATUS OF DEGRADATION

As the building has been abandoned for a few years since the late ninties, a lot of deterioration has ocured to most of the buildings. This happened as a result of lack of maintenance, exposure to natural elements of erosion, and being occupied by squatters and homeless people.

While a few of the smaller elements are in a dire need of reconstruction such as window frames and some finishing materials, most of the building seems to be in a decent shape.

The structure of the building is still strong, and was not subject to any major degradation. The building is mostly still safe to use, subject to approval of specialized construction engineers, as some structural reinforcement to internal space might be needed to increase the general safety.



URBAN CONTEXT

SITE OVERVIEW



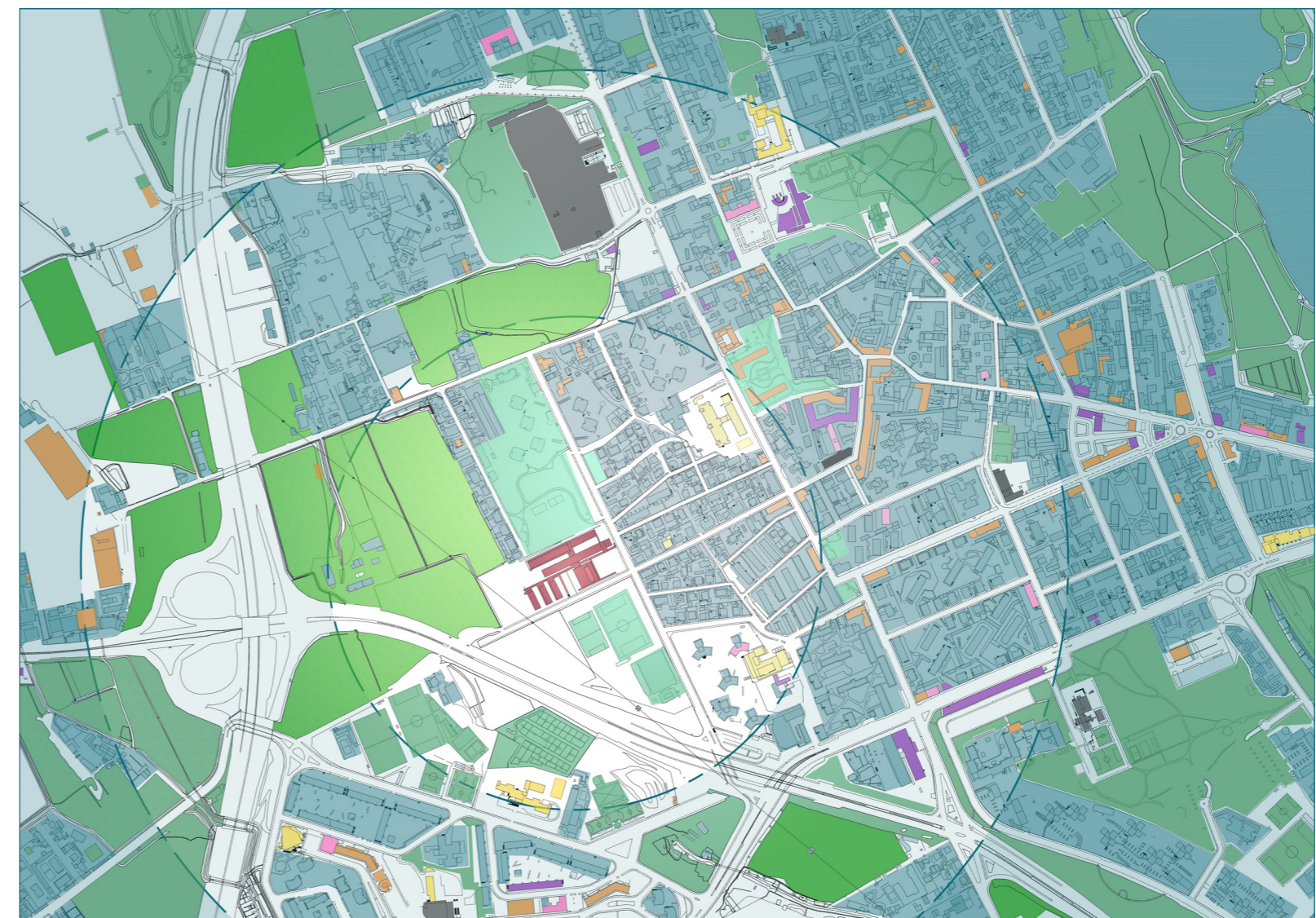
SURROUNDING FUNCTIONS



1

- Banks
- Bars
- Cemeteries
- Churches
- City Hall
- Clinics
- Coffeshops
- Entertainment and Clubs
- Gas Stations
- Gymnasiums
- Hotels
- Libraries
- Music Centers
- Parks and Gardens
- Parking Zones
- Pharmacies
- Post Offices
- Public Facilities
- Restaurants
- Schools
- Shops
- Sports Fields
- Sports Clubs
- Supermarkets

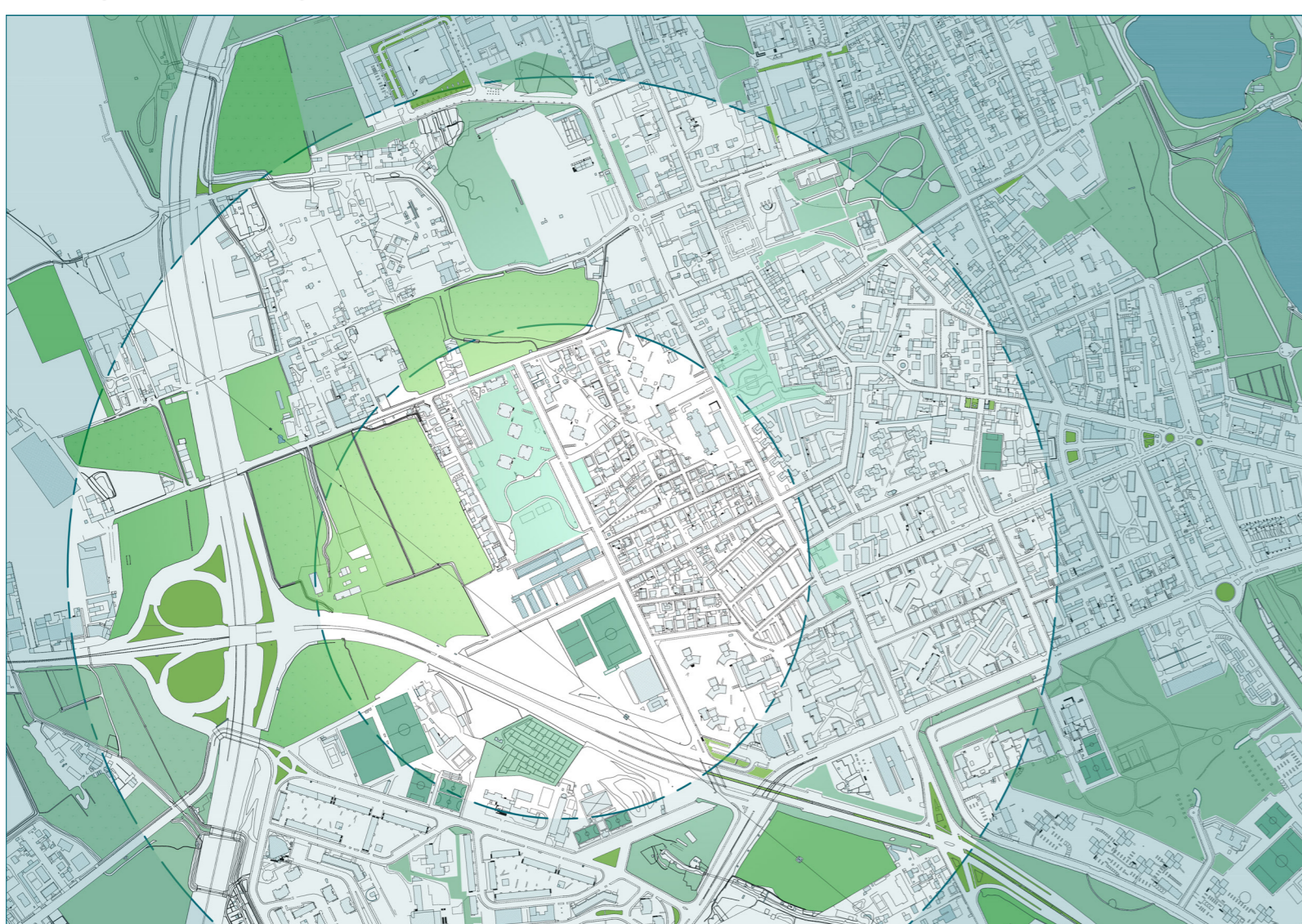
LAND USE MAP



2

- Agricultural
- Commercial
- Educational
- General Services
- Healthcare
- Leisure
- Religious
- Residential

VEGETATION MAP



3

- Agricultural Fields
- Natural Greenery
- Parks and Gardens
- Sports Fields

TRANSPORTATION MAP



4

- Metro Lines: --- Predicted location of a future metro stop for the MM1 red line.
- Bus Lines: — Bus 58, Bus 63, Bus 67, Bus 72, Bus 76, Bus 433
- Tram Lines: - - - - - Tram 18

THE NEW ISTITUTO "MARCHIOINDI" SPAGLIARDI

MASTERPLAN



Scale 1:500

BRIEFING

The new instituto marchioldi aims to be the new central hub of the city of Baggio. It is designed as a fully equipped complex to meet the needs of users of different ages, health conditions, disability and autonomy.

The insitute aspires to create a focus point within the neighbourhood, providing the whole neighbourhood with missing services and activities. Which will liven up the area and increase the quality of life in this neglected part of the city.

In relation to the studies demonstrated in the previous chapters, each and every function was chosen for its ideal location.

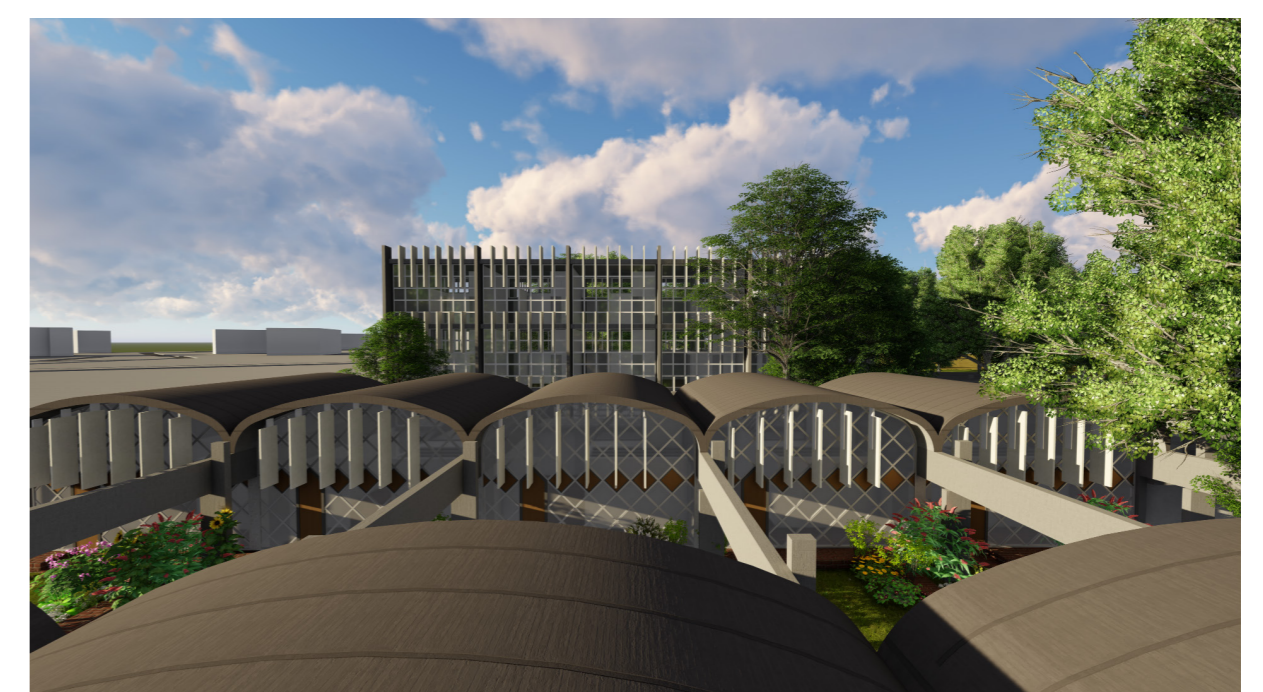
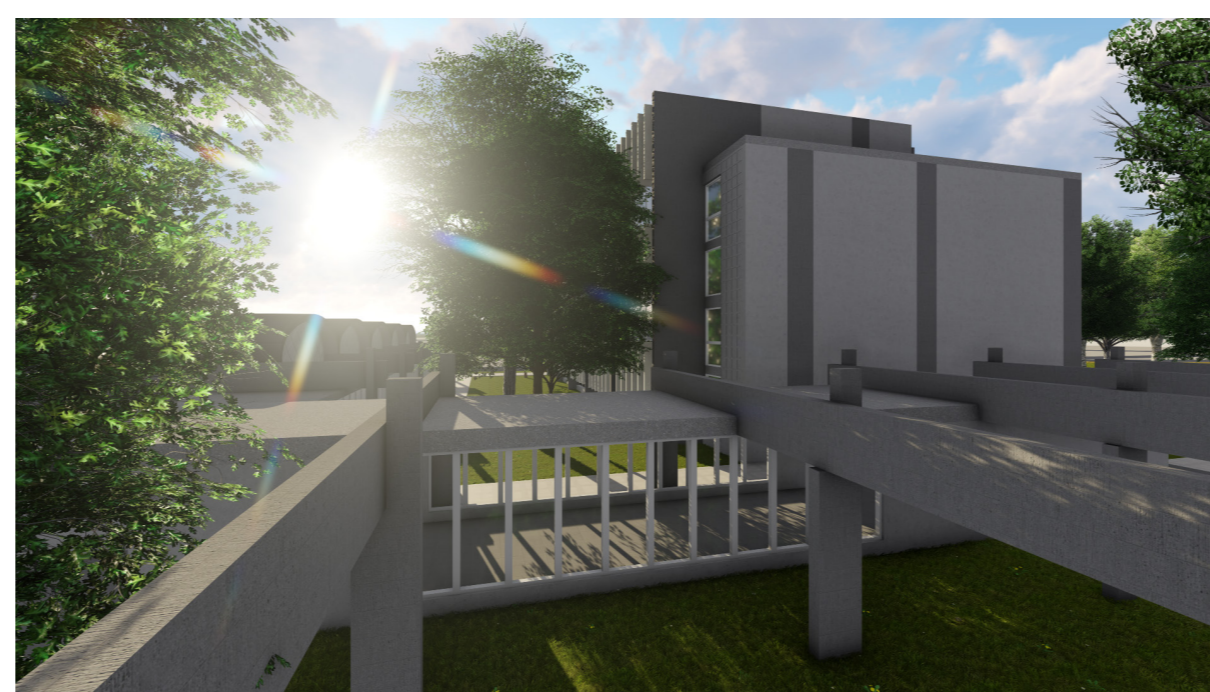
Having the gymnasium space be the at the peak spectrum of the public and noisy diagrams, while the elderly housing be on the other end of the spectrum. Being the most quiet and private space.

The other funtionons have been put in place in respect to these two diagrams, and in respect to the nature of the existing spaces within the building.

SITE OVERVIEW



RENDER IMAGES



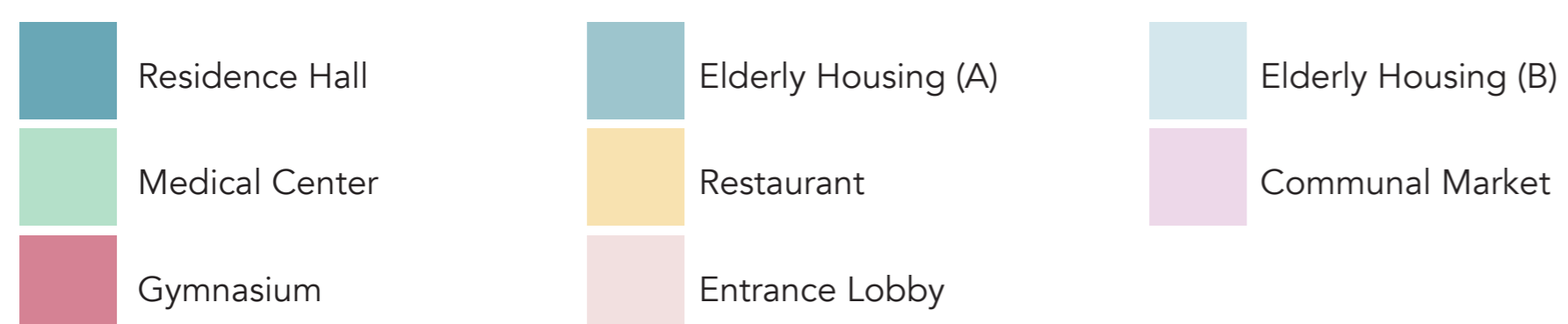
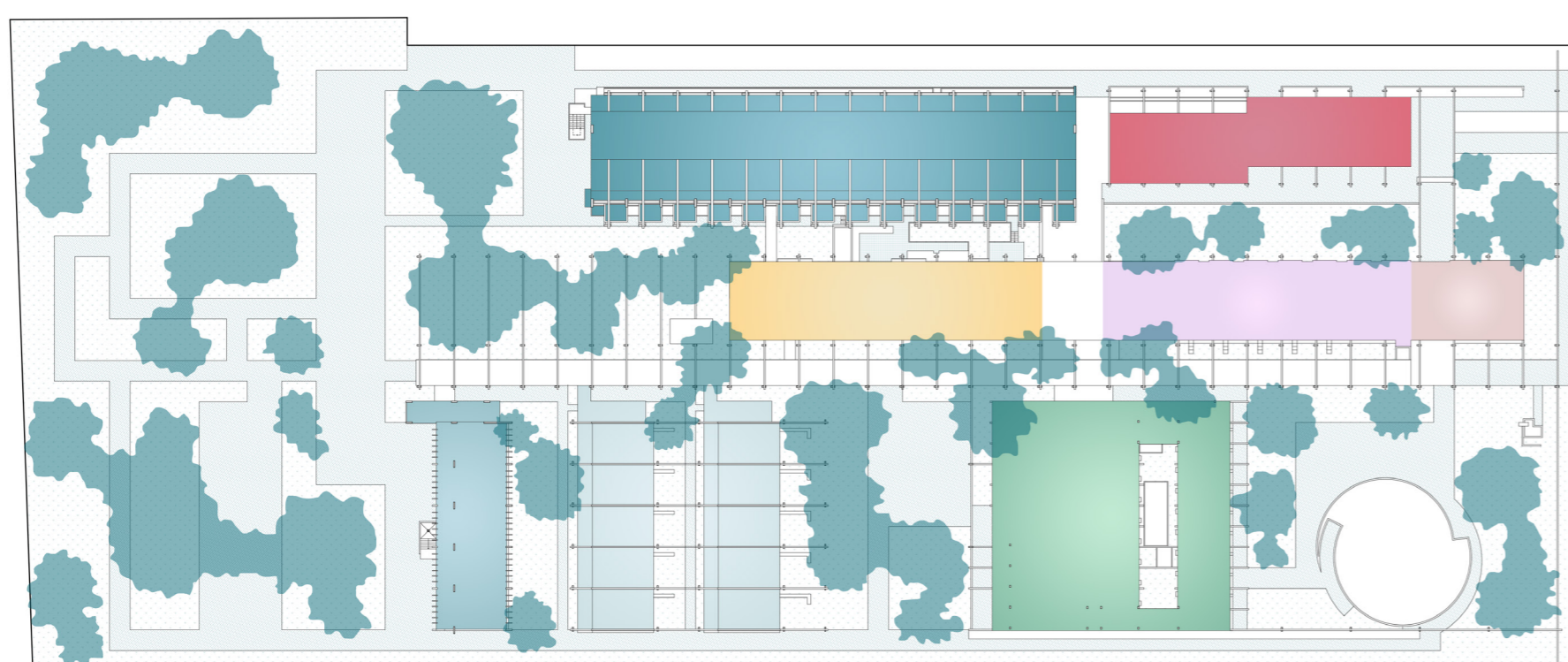
THE NEW ISTITUTO "MARCHIOINDI" SPAGLIARDI

MASTERPLAN

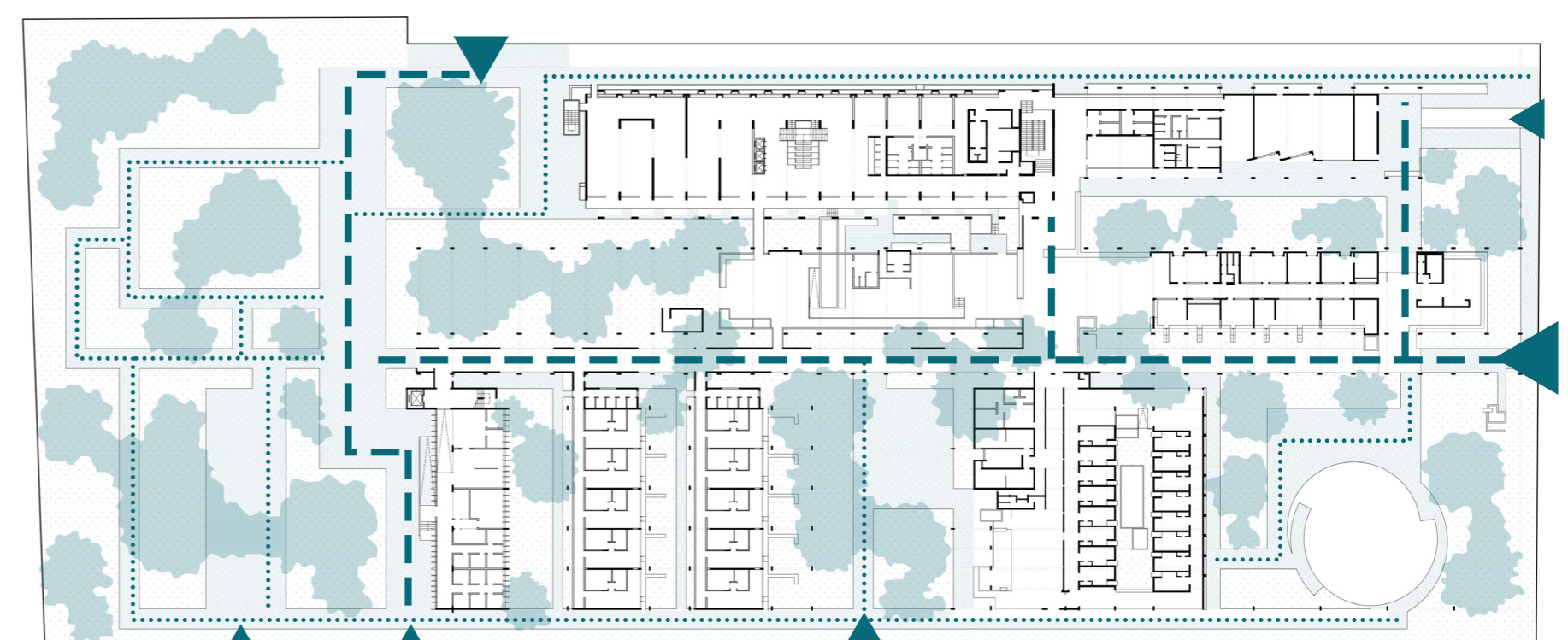


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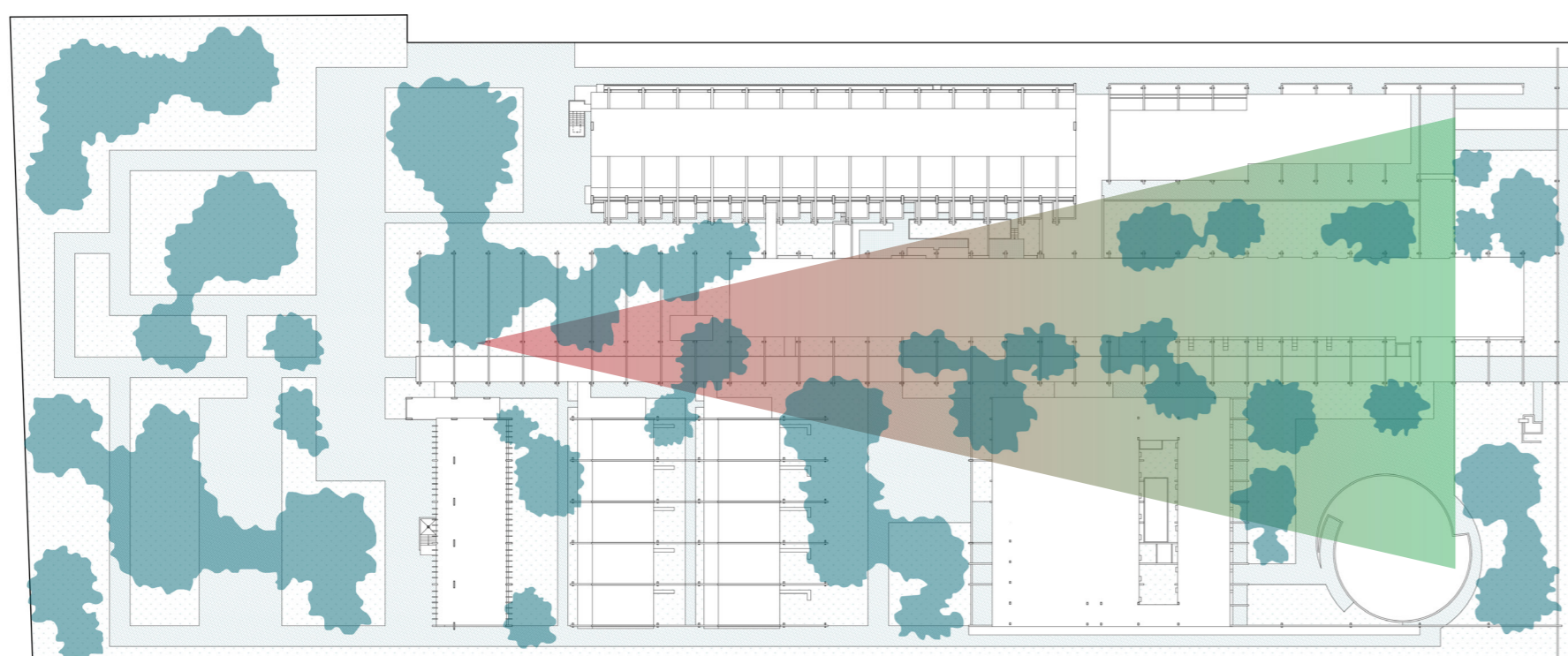
ZONING DIAGRAM



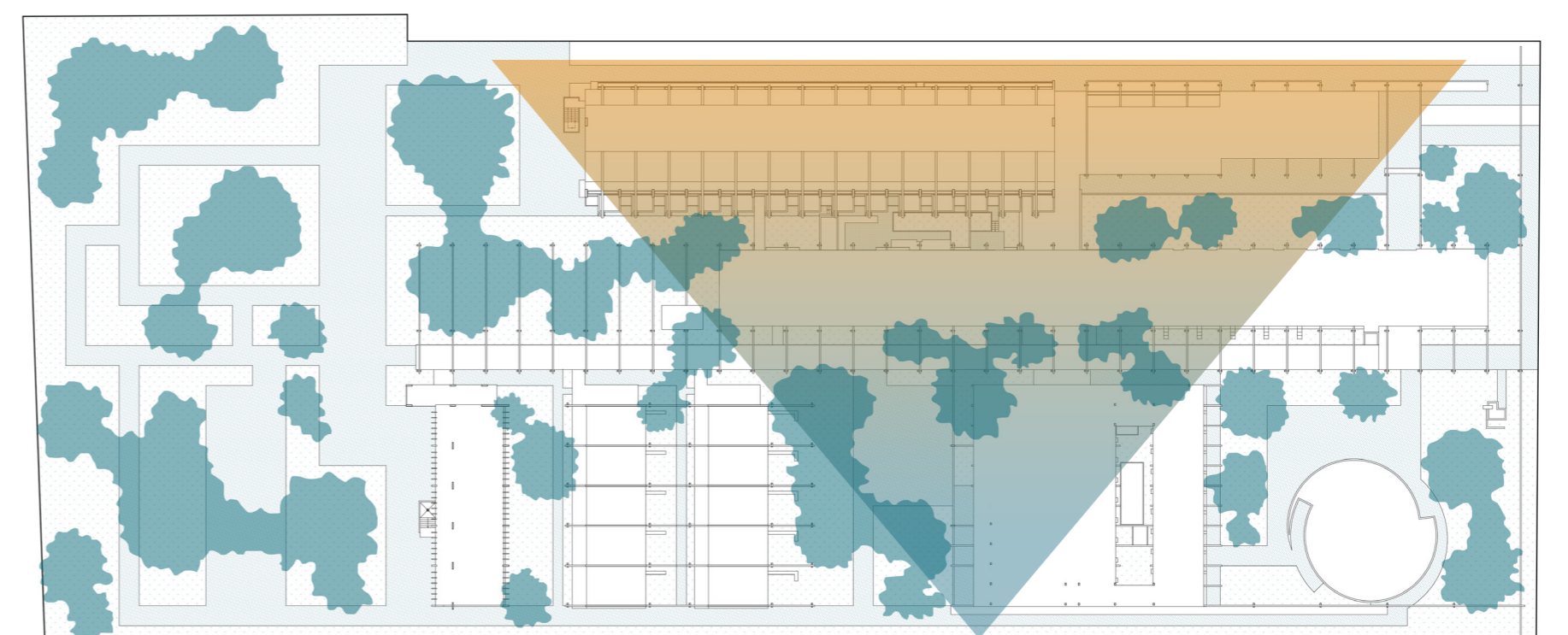
CIRCULATION DIAGRAM



PRIVACY DIAGRAM



NOISE DIAGRAM



RESIDENCE HALL

BRIEFING

Due to the unique nature of the interior spaces of the modular units, specifically the presence of the spiral staircase that act as a defining feature of the space, this building was seen to be not as accessible as the other two previously mentioned.

And as a result, the allocated function to this building is to create a residence hall for younger users, as students or young professionals.

This building required the biggest intervention of the proposed project. Due to its lacking of accessibility features that cause a hazard. And as a result, an additional set of stairs was needed to increase the accessibility and to comply with the safety regulations of escape routes.

This design proposes to modify the central three units to act as the new

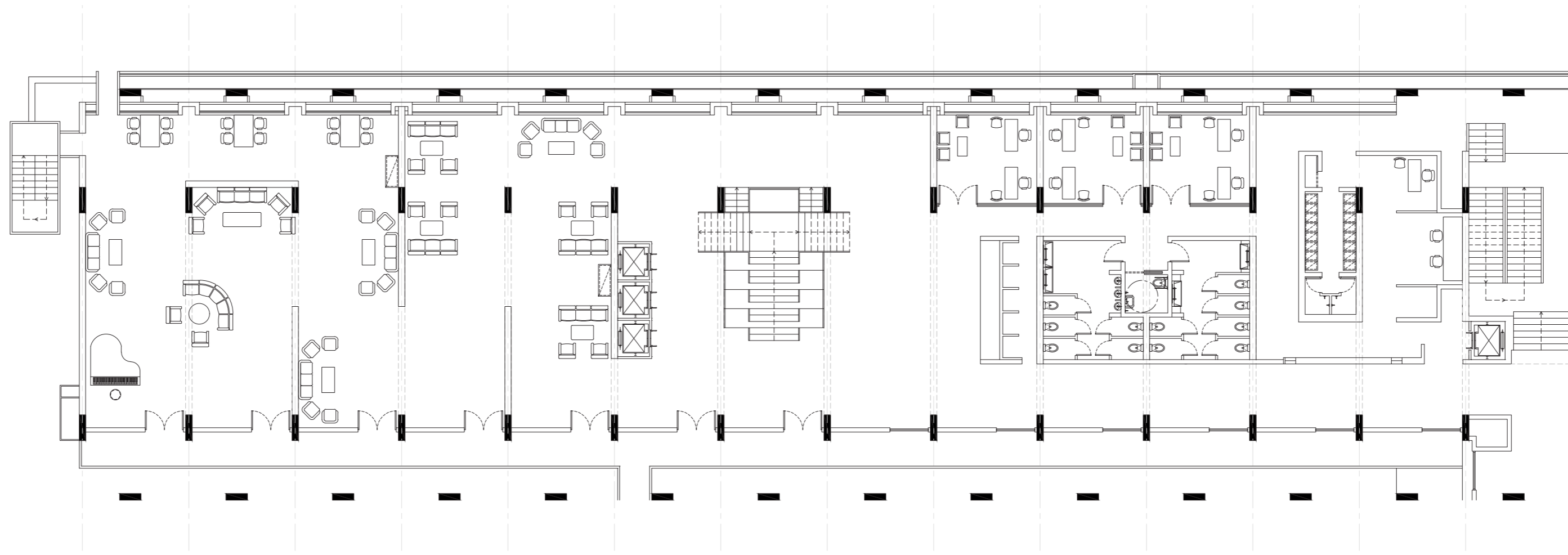
vertical battery of the building. The new proposed vertical battery makes use of the gaps next to the bridges within the modular units, in order to minimize the need to demolish existing flooring.

Other modifications to this building include restoring the ground floor plan to its original state, after the additions added during the usage of the building as an art school, and even later additions by the government to stop squatting attempts.

The new ground floor plan honors the original design of having a large open space that is easily accessible from the outdoor spaces and the main hallway.



GROUND FLOOR PLAN



Scale 1:200

FRONT ELEVATION



BACK ELEVATION

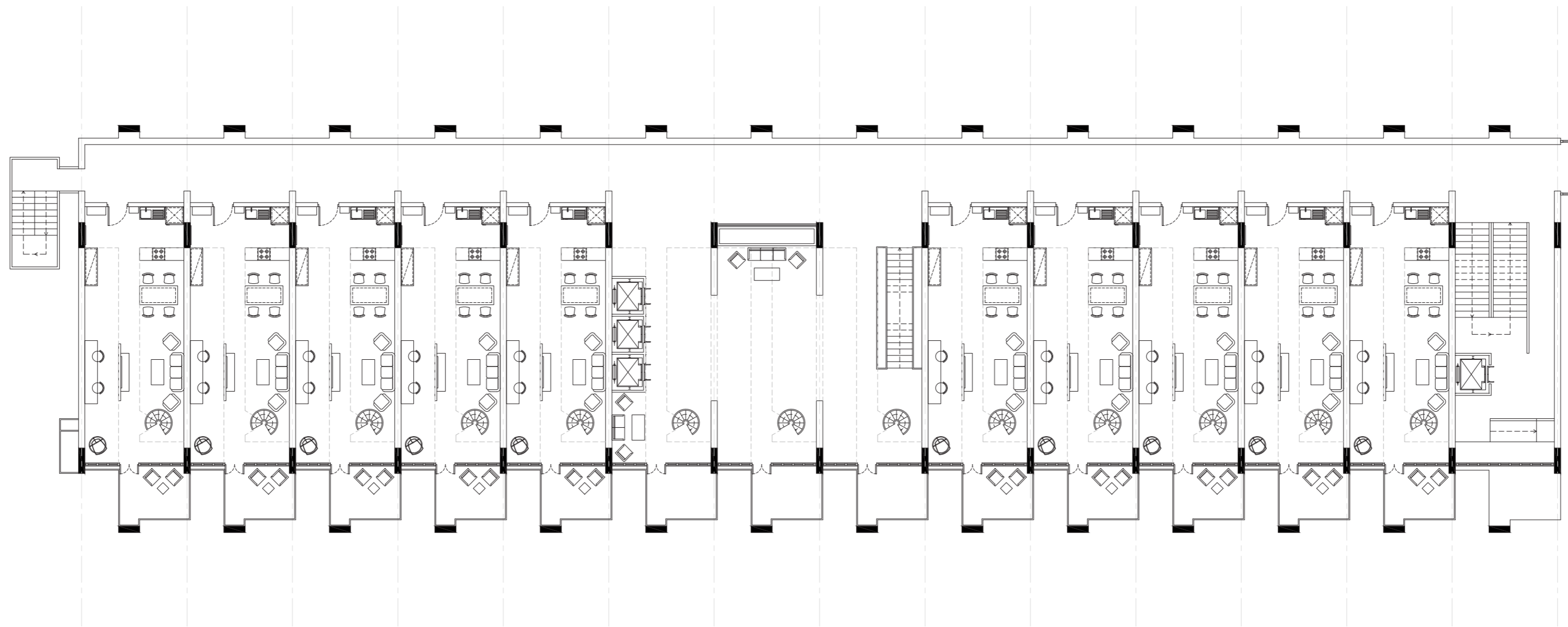


Scale 1:200

Scale 1:200

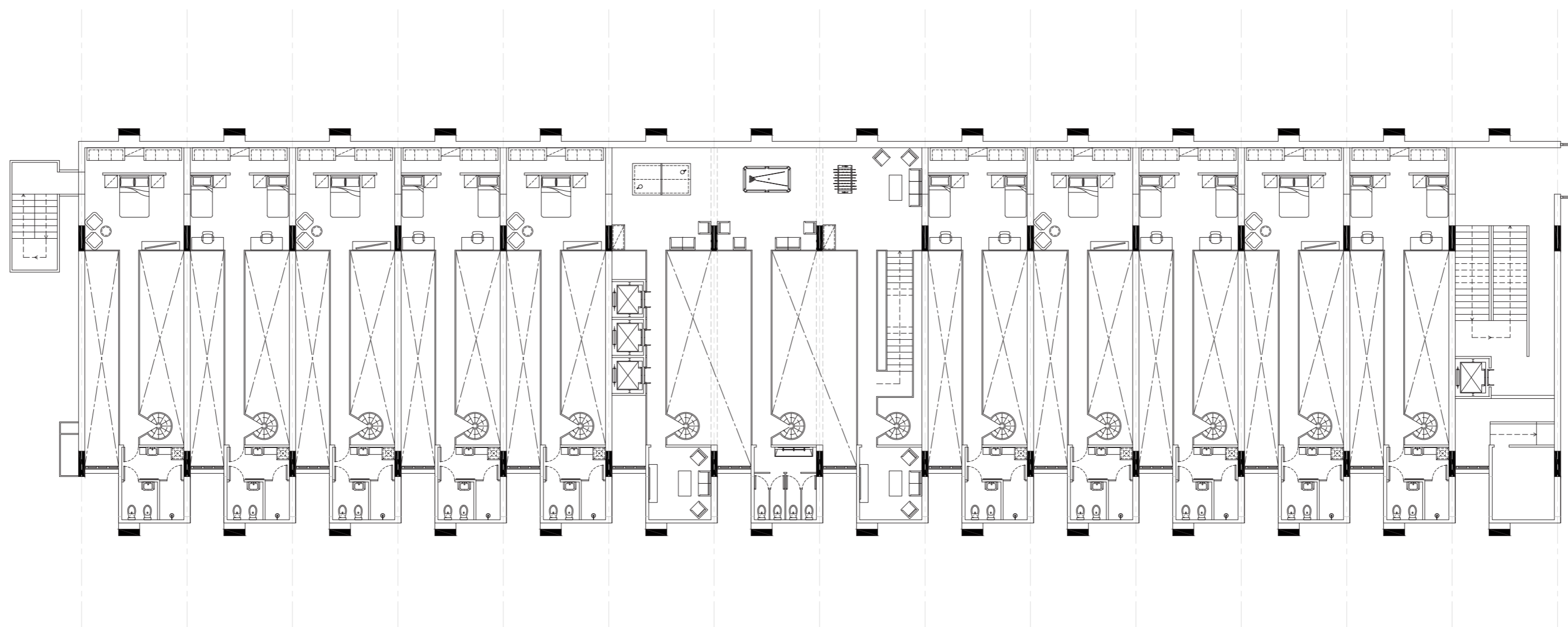
RESIDENCE HALL

TYPICAL FLOOR PLAN



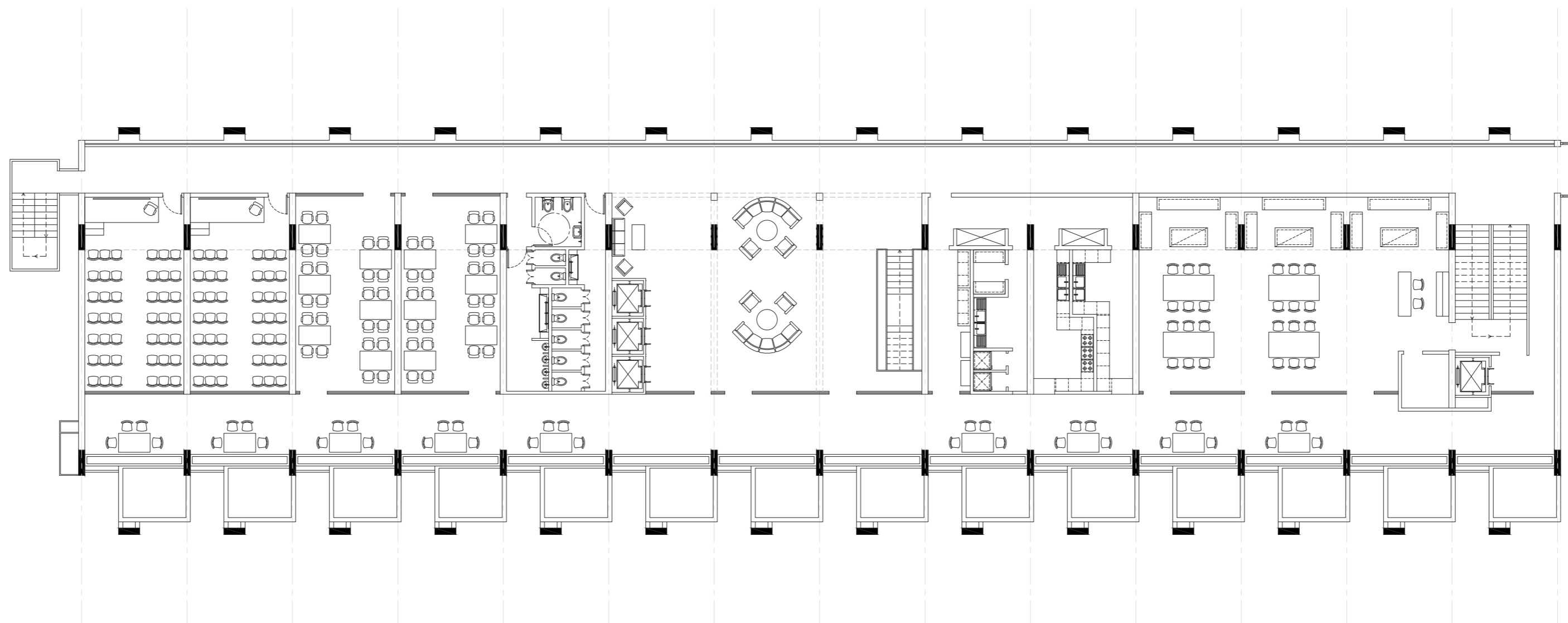
Scale 1:200

TYPICAL MEZZANINE FLOOR PLAN



Scale 1:200

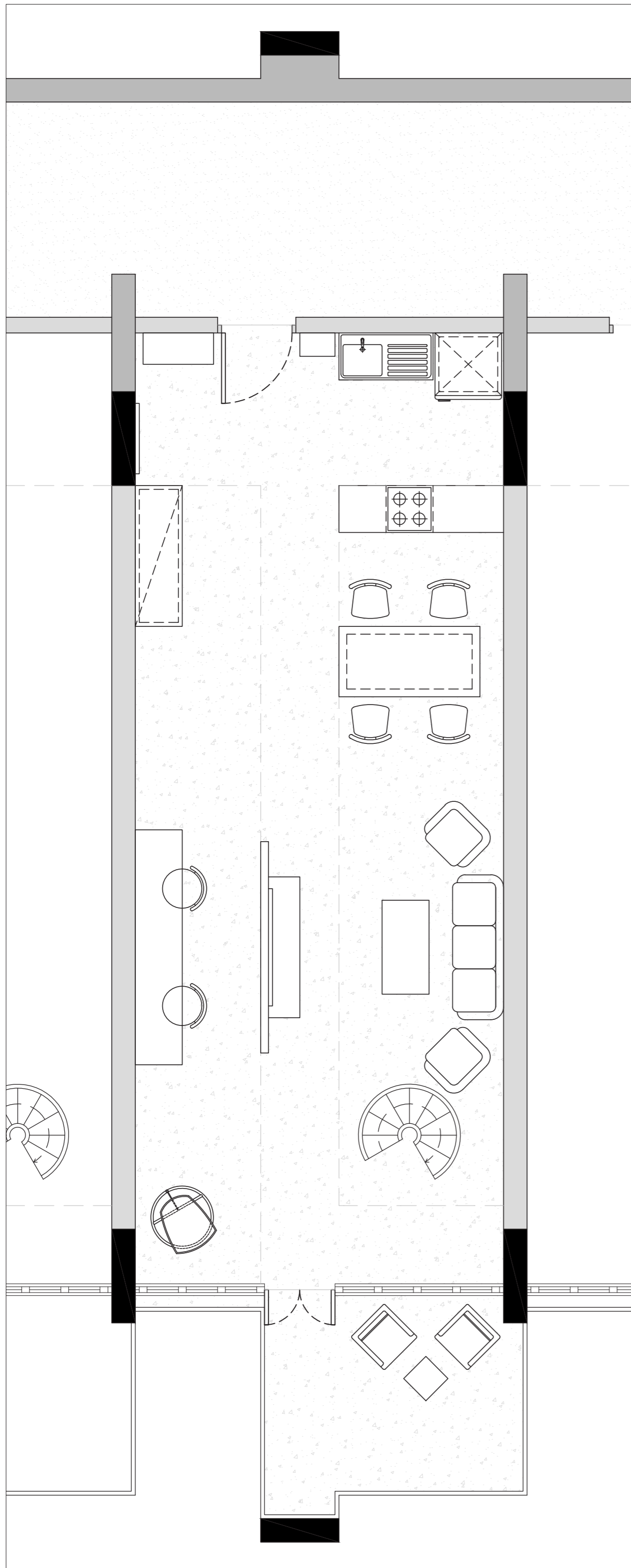
ATTIC FLOOR PLAN



Scale 1:200

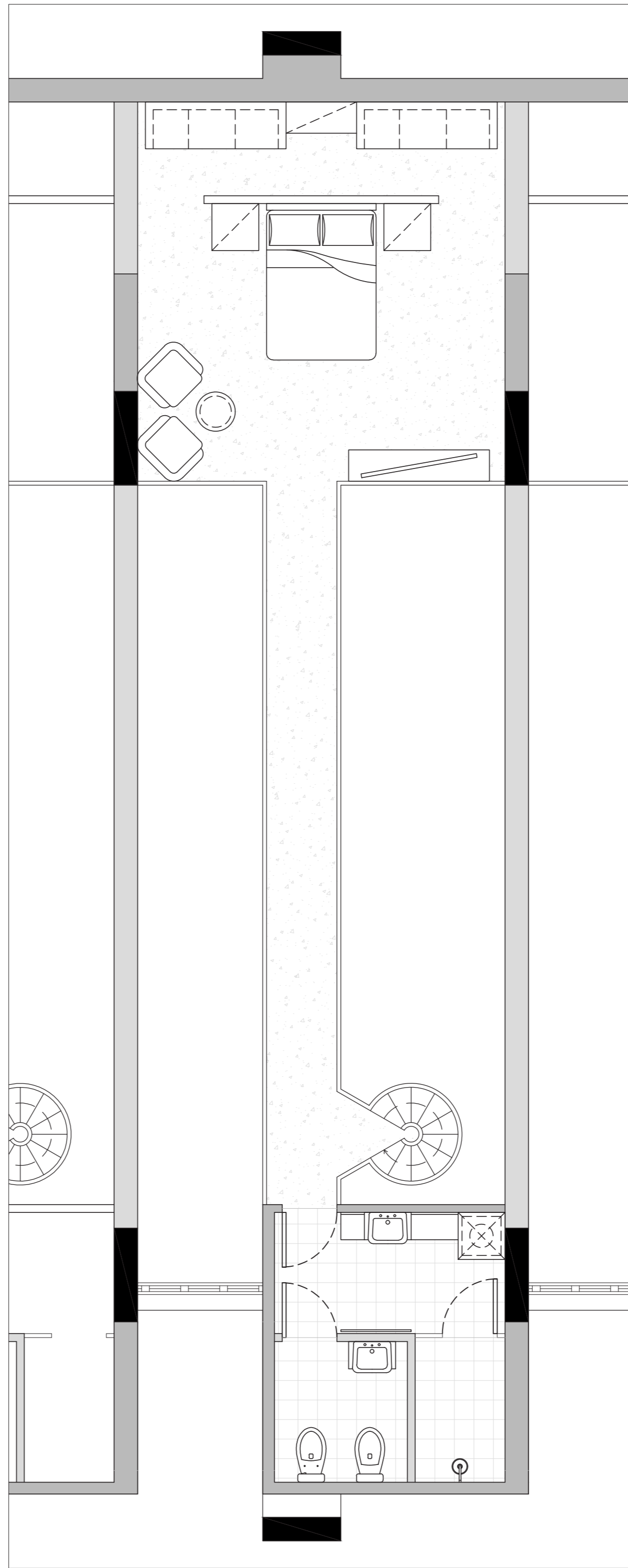
RESIDENCE HALL

UNIT FLOOR PLAN



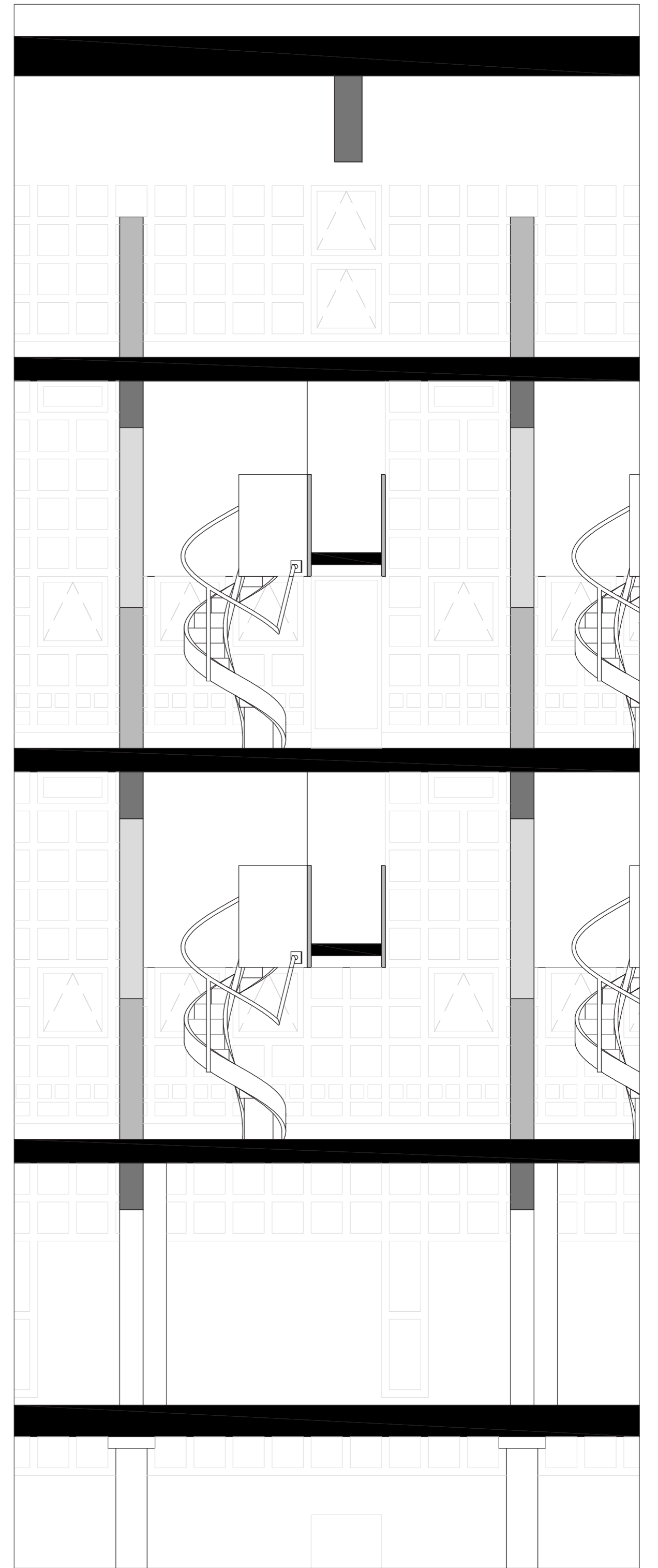
Scale 1:50

UNIT MEZZANINE PLAN



Scale 1:50

SECTION OF TWO UNITS



Scale 1:50



AGE FRIENDLY HOUSING (A)

AGE FRIENDLY HOUSING (A)

The age-friendly apartment units have been allocated to the previous school structures. in place of the existing service rooms / school bathrooms. With all the space requirement fulfilled for the elevator.

In this existing building, Two identical floors comprised of five modular units each has been chosen to be transformed into ten apartment units that are age-friendly. New windows will be needed to construct the missing pieces of the facades. And while they would follow the original design by Vigano, new materials will be used in order to differentiate what is heritage and what is new within the building.

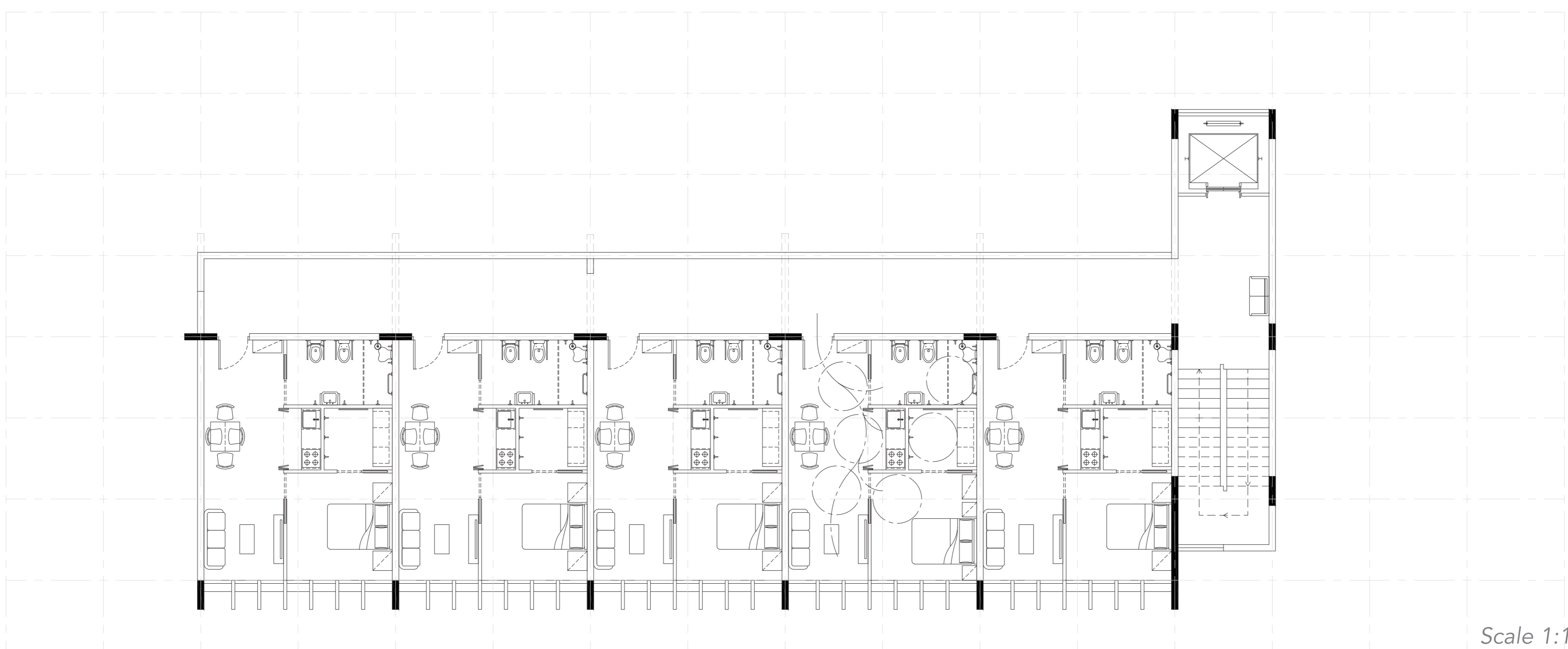
Each of these units measure at 6 meters wide by 7.5 meters long. Totalling a floor area of almost 45 m² each. Similarly, the shaders on the two long facades will be recreated in new materials.

A ramp was added in place of the stairs in order to increase accessibility of the space to users with disabilities or difficulty in movements.

Another main addition to the building was to add a single elevator in front of the main staircase, to allow for easier access to the upper floors. This elevator was added

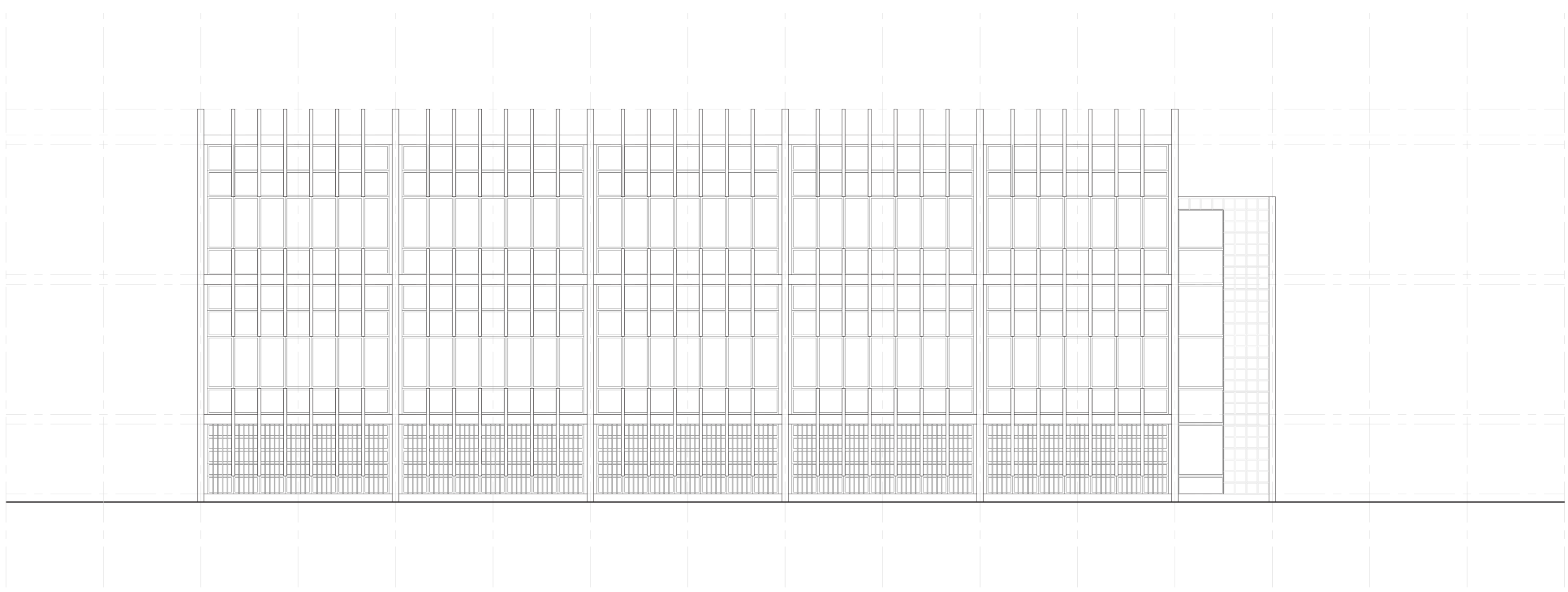


TYPICAL FLOOR PLAN



Scale 1:100

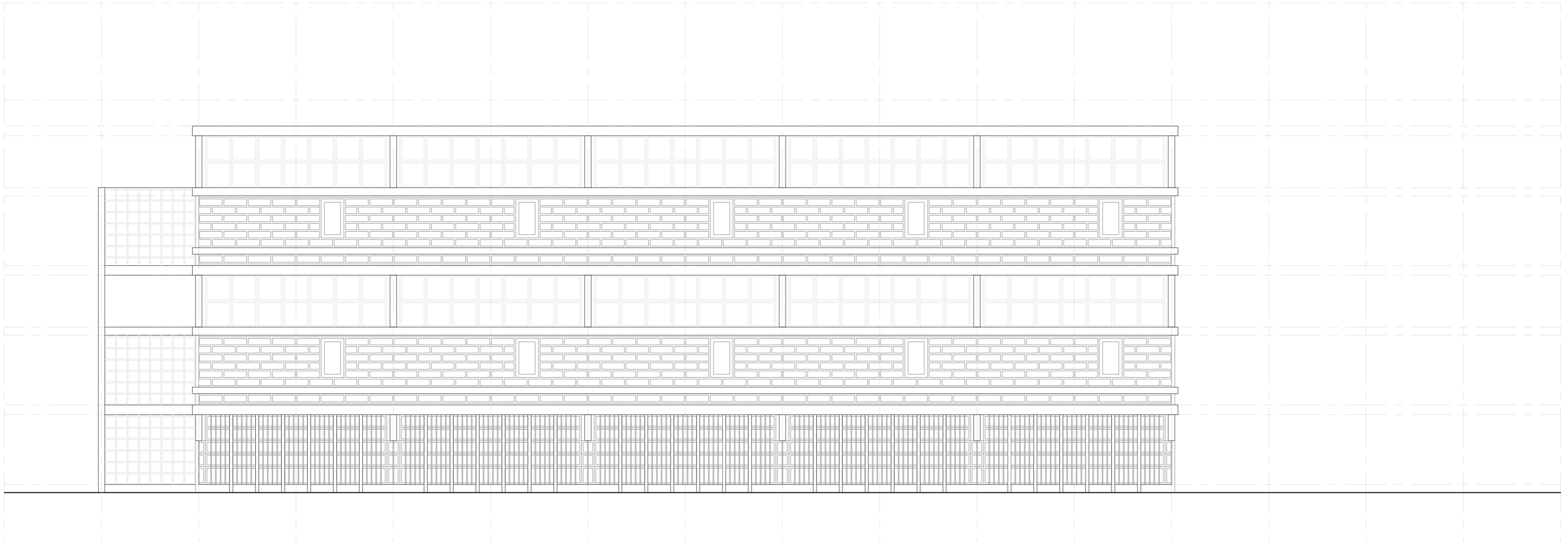
FRONT ELEVATION



Scale 1:100

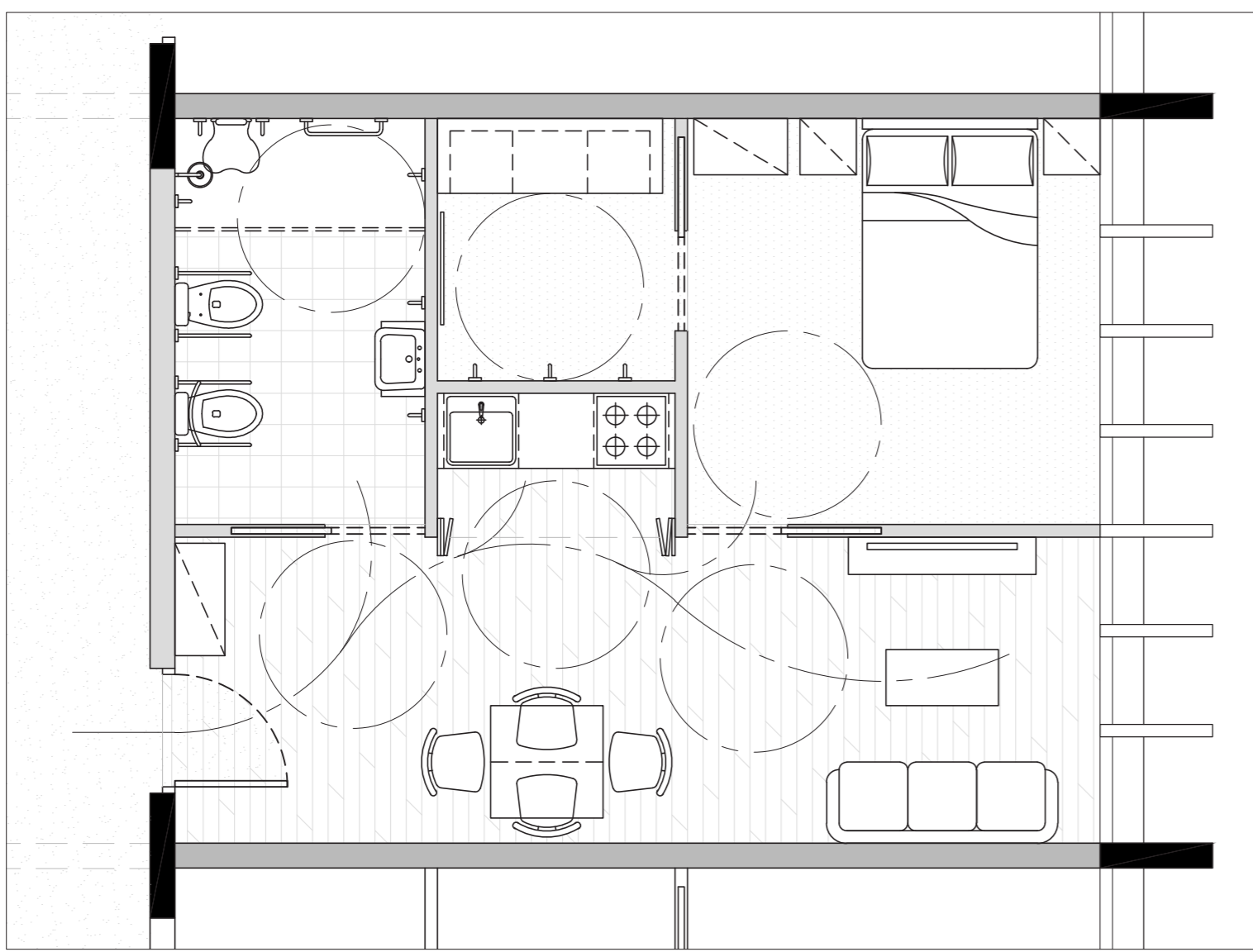
AGE-FRIENDLY HOUSING (A)

BACK ELEVATION



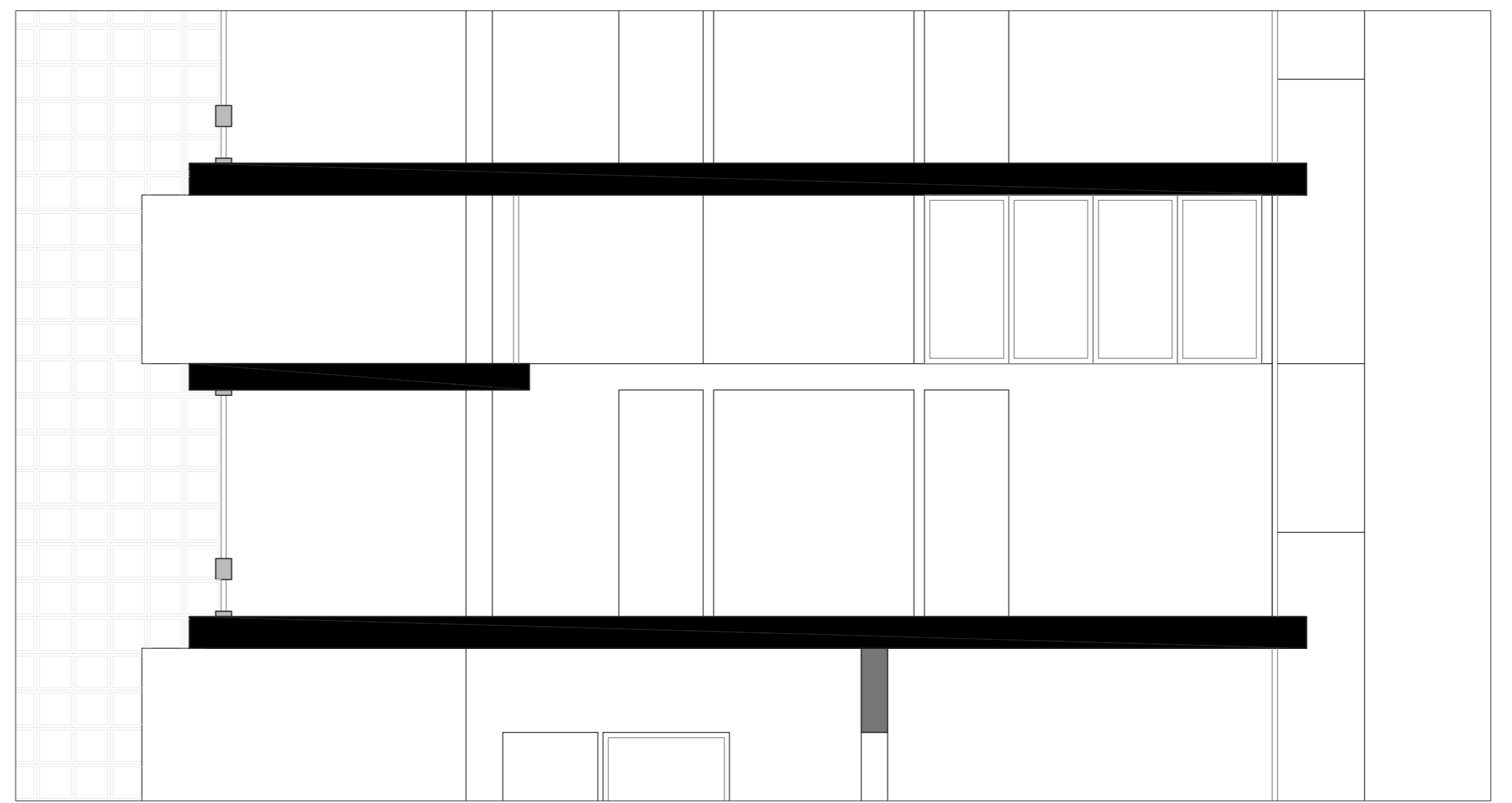
Scale 1:100

TYPICAL UNIT



Scale 1:50

SECTION OF TYPICAL UNIT



Scale 1:50



AGE-FRIENDLY HOUSING (B)

AGE FRIENDLY HOUSING (B)

The twin buildings comprising the old elementary school have also been modified to create more age-friendly housing units.

Each of these identical building houses 5 typical units of 6 meters by 8.2 meters. With a resulting floor area of almost 50 m² for each unit.

Adding these ten units to the units of the other building brings the total to 20 apartment units specifically designed to suit the needs of autonomous users of various ages with or without disabilities.

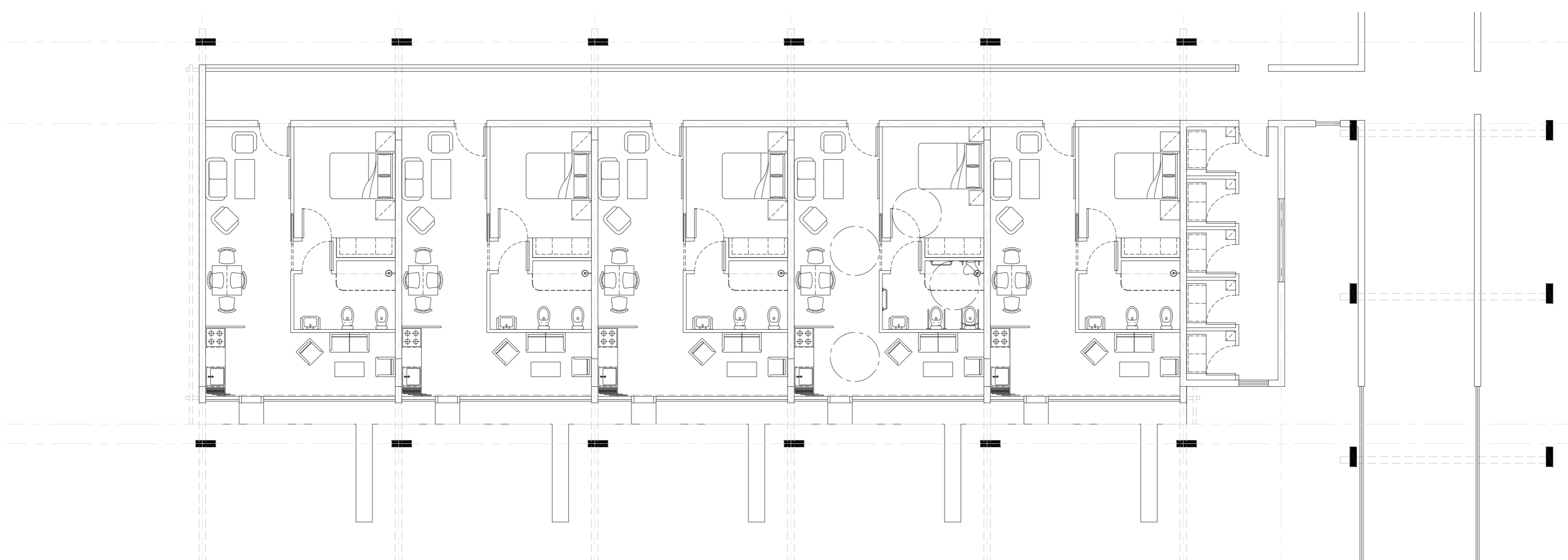
Similar to the other buildings, each of these units was designed to have lockers in place of the back wall. These lockers no longer exist and as a result a wall was needed to be constructed in place.

On the other hand, a feature unique to this building was that all the units were joined together by a series of door openings. These openings needed to be blocked in order to fully enclose each space into a separate units.

There wasn't an immediate need for other modifications to these buildings, as the existing spaces serve the functions well.

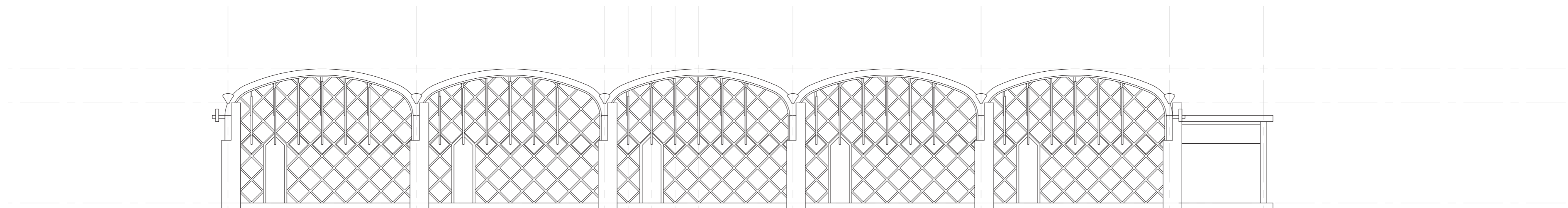


TYPICAL FLOOR PLAN



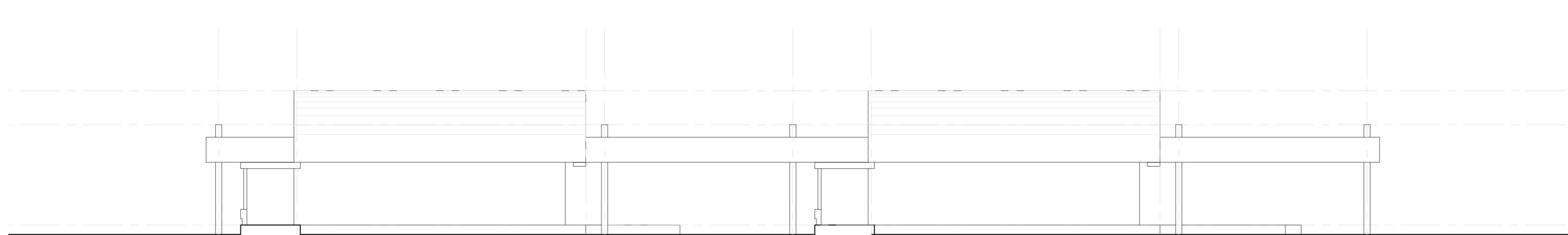
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FRONT ELEVATION



Scale 1:100

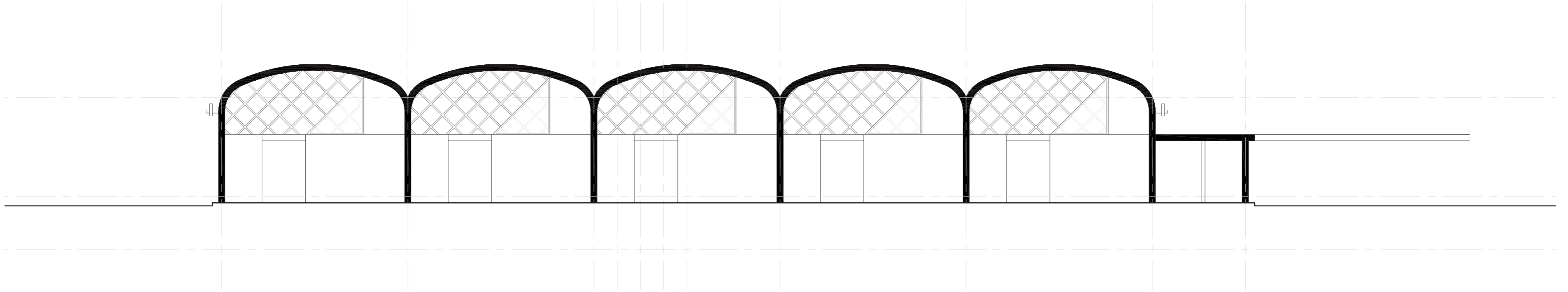
SIDE ELEVATION



Scale 1:100

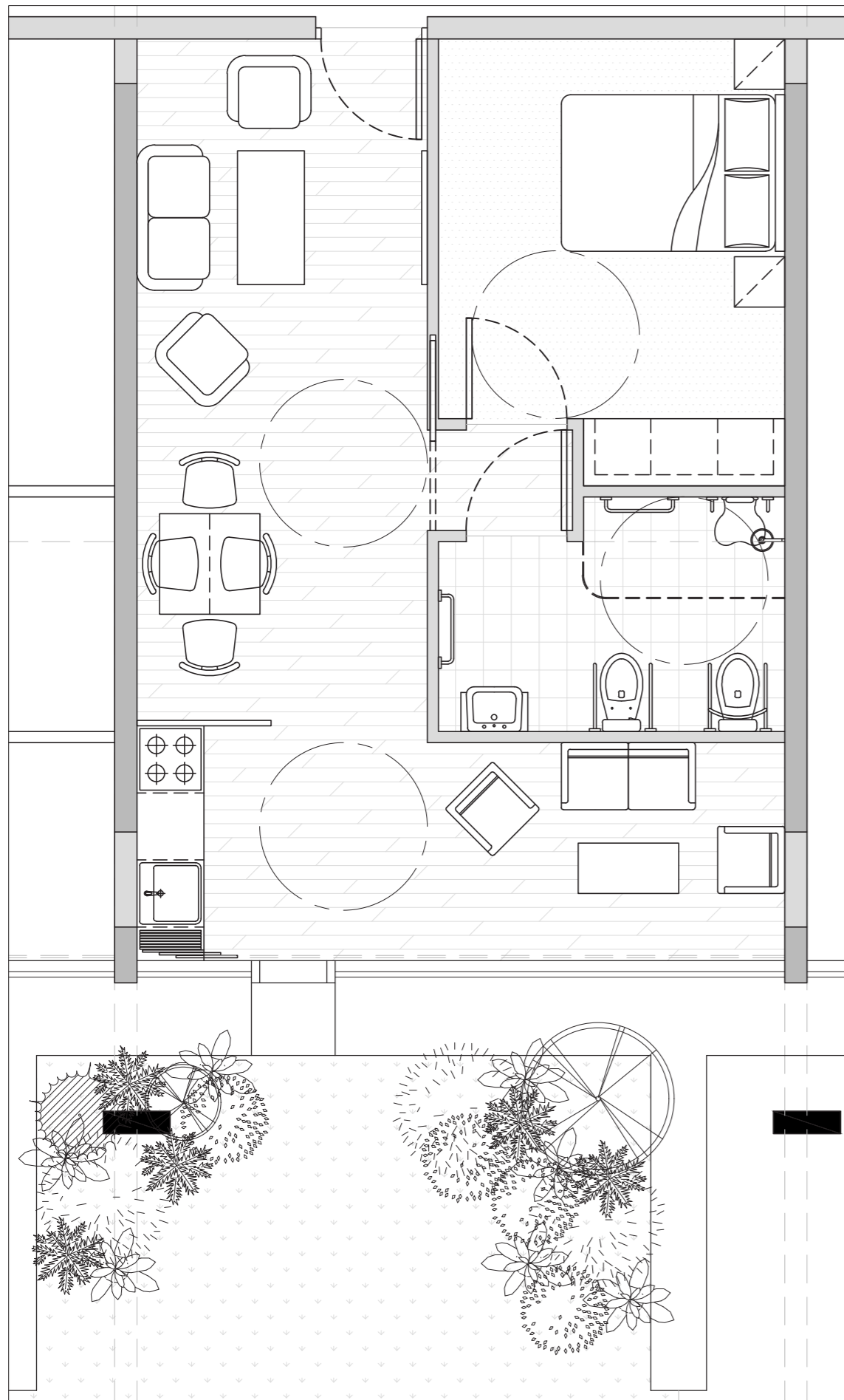
AGE-FRIENDLY HOUSING (B)

BUILDING SECTION



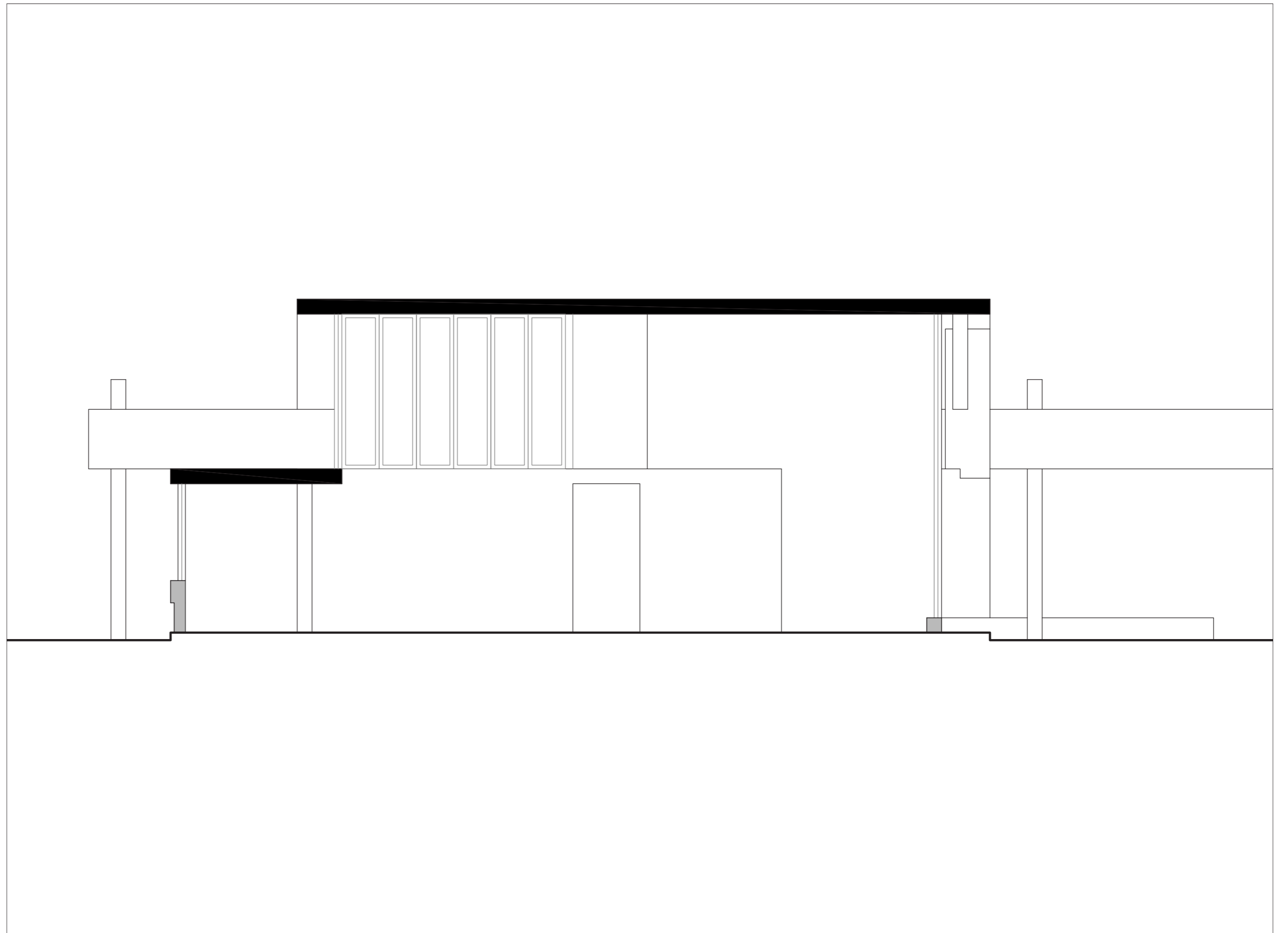
Scale 1:100

TYPICAL UNIT



Scale 1:50

SECTION OF TYPICAL UNIT



Scale 1:50

