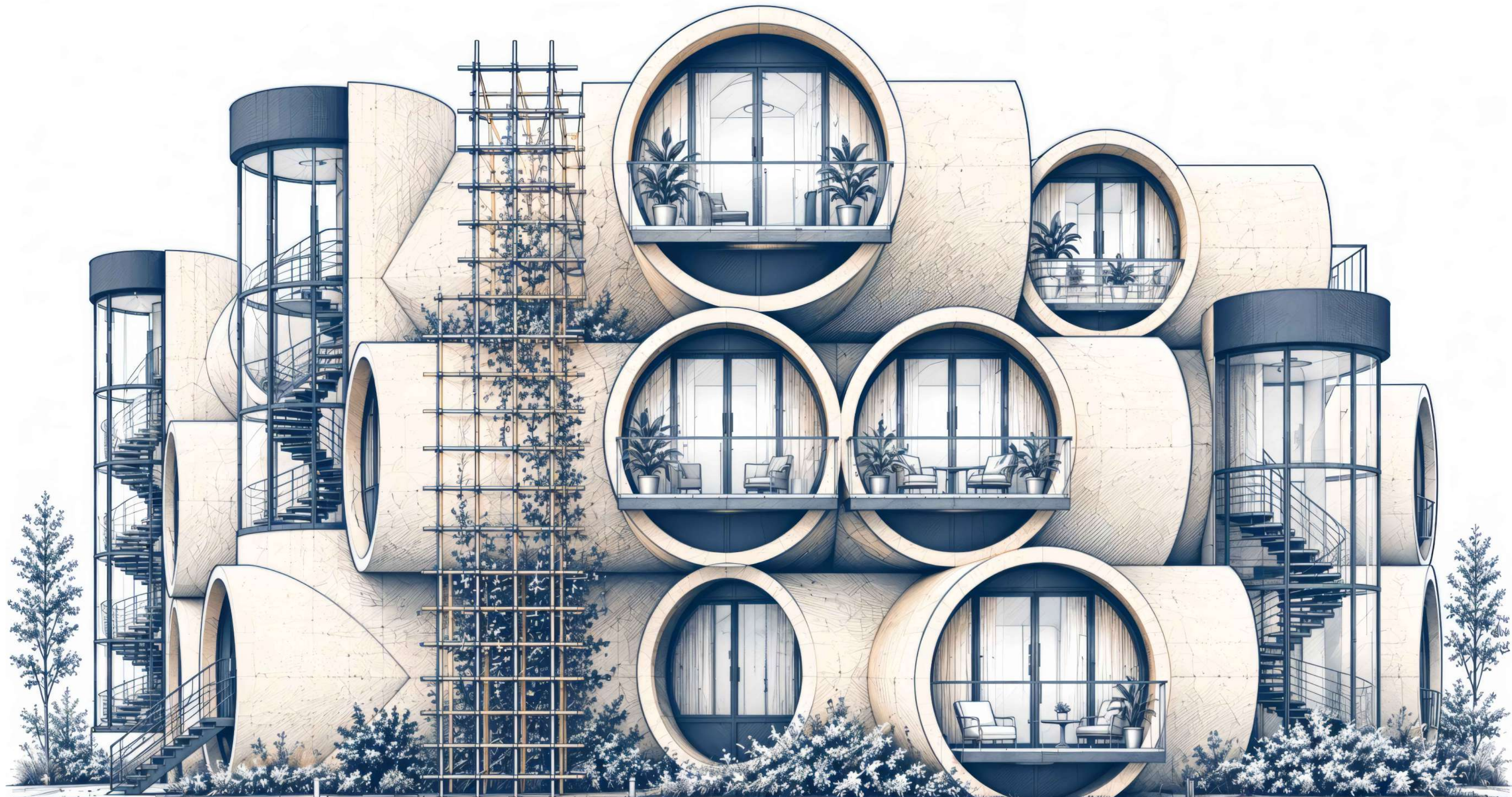
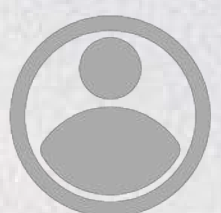


SOCIAL HOUSING

RE:LIVE



HRISTO BOTEV DISTRICT, SOFIA, BULGARIA



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EVGENIYA ALEKSANDROVA



FACULTY OF ARCHITECTURE
UACEG, SOFIA, BULGARIA

RE:LIVE

MODULAR HOUSING STRUCTURE
MADE FROM REINFORCED
CONCRETE SEWER PIPES

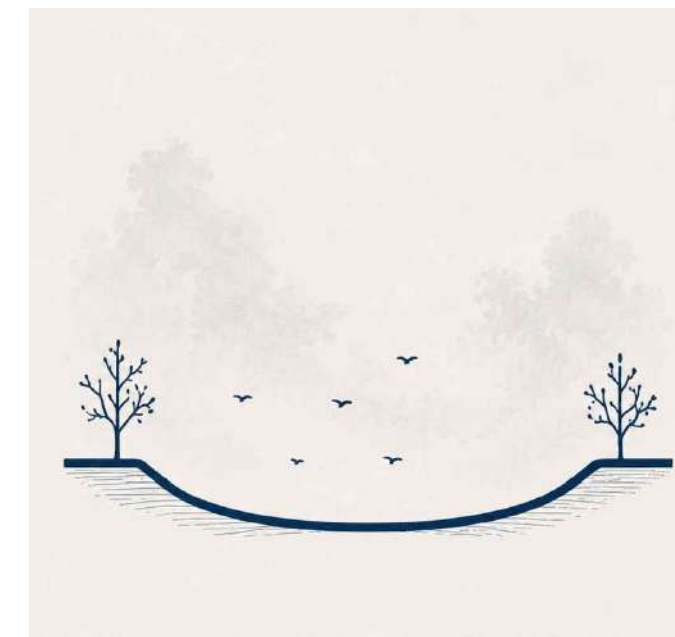
VERTICAL DEVELOPMENT
AND INTERCONNECTED VOLUMES

UNDERGROUND INFRASTRUCTURE
AS THE FOUNDATION FOR GROWTH



01 NEGLECTED URBAN VOID

The district is characterized by a low-quality urban environment, a lack of social spaces, and limited opportunities for development.



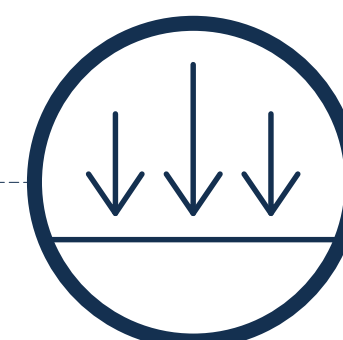
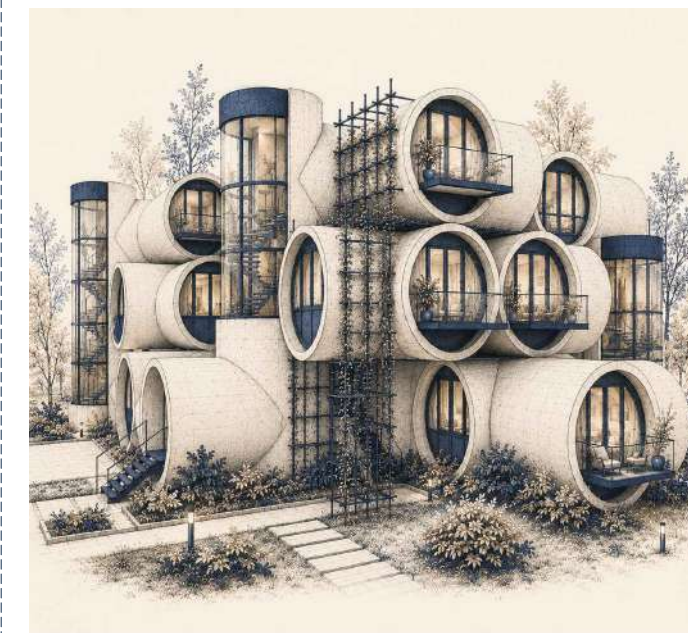
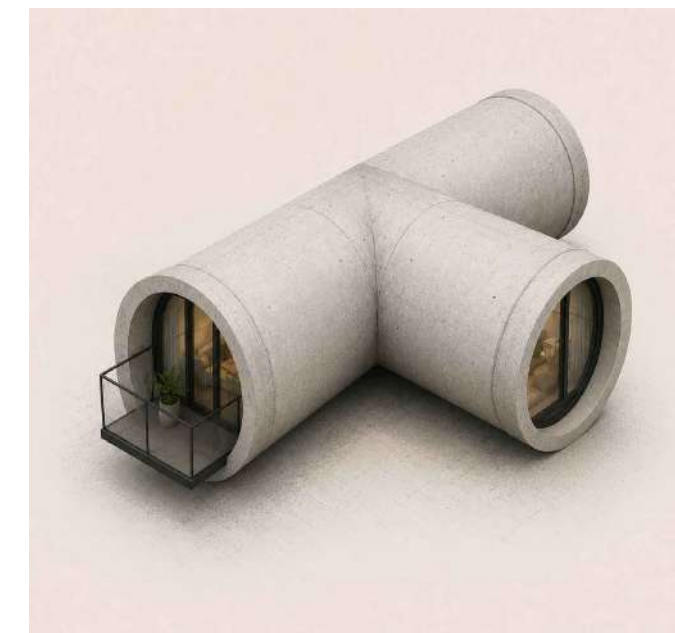
02 UNTAPPED RESOURCE

Existing reinforced concrete collector pipes are transformed into a valuable building resource. The pipes are refurbished in a factory, where the modular housing units are prefabricated before being transported and assembled on site, giving the infrastructure a second life instead of becoming waste.



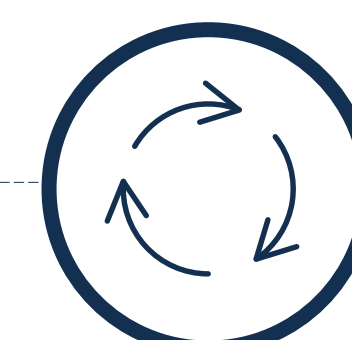
03 MODULAR HOUSING SYSTEM

The collector pipes are transformed into residential modules that are assembled into a modular housing system, integrating shared social spaces and vertical circulation.



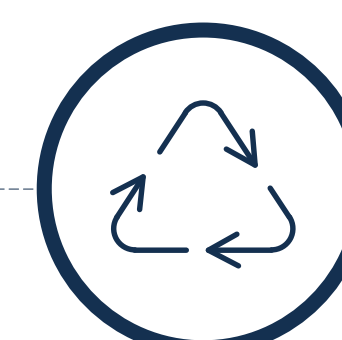
REDUCE

MINIMIZES
WASTE



REUSE

EXTENDS THE
LIFE OF EXISTING
MATERIALS



RECYCLE

SUPPORTS A
CIRCULAR BUILT
ENVIRONMENT



POOR URBAN ENVIRONMENT

Neglected housing and poor environmental conditions.



RE:LIVE



... INFRASTRUCTURE BECOMES ARCHITECTURE ...

SITE PLAN

LEGEND:

-  GROUND FLOOR
-  SECOND FLOOR
-  THIRD FLOOR

- ① CINEMA
- ② PLAYGROUND
-  SOCIAL POINTS
-  ENTRANCES
-  PEDESTRIAN ACCESS
- P_n PARKING

SITE COVERAGE	40 %	38.70% (1,691.9 m ²)
FLOOR AREA RATIO	1.3	0.80 (Gross Floor Area = 3,258.5 m ²)
GREEN SPACE	40 %	42%

"From underground infrastructure to a living urban network - a system that transforms the city's hidden infrastructure into a vibrant residential environment."

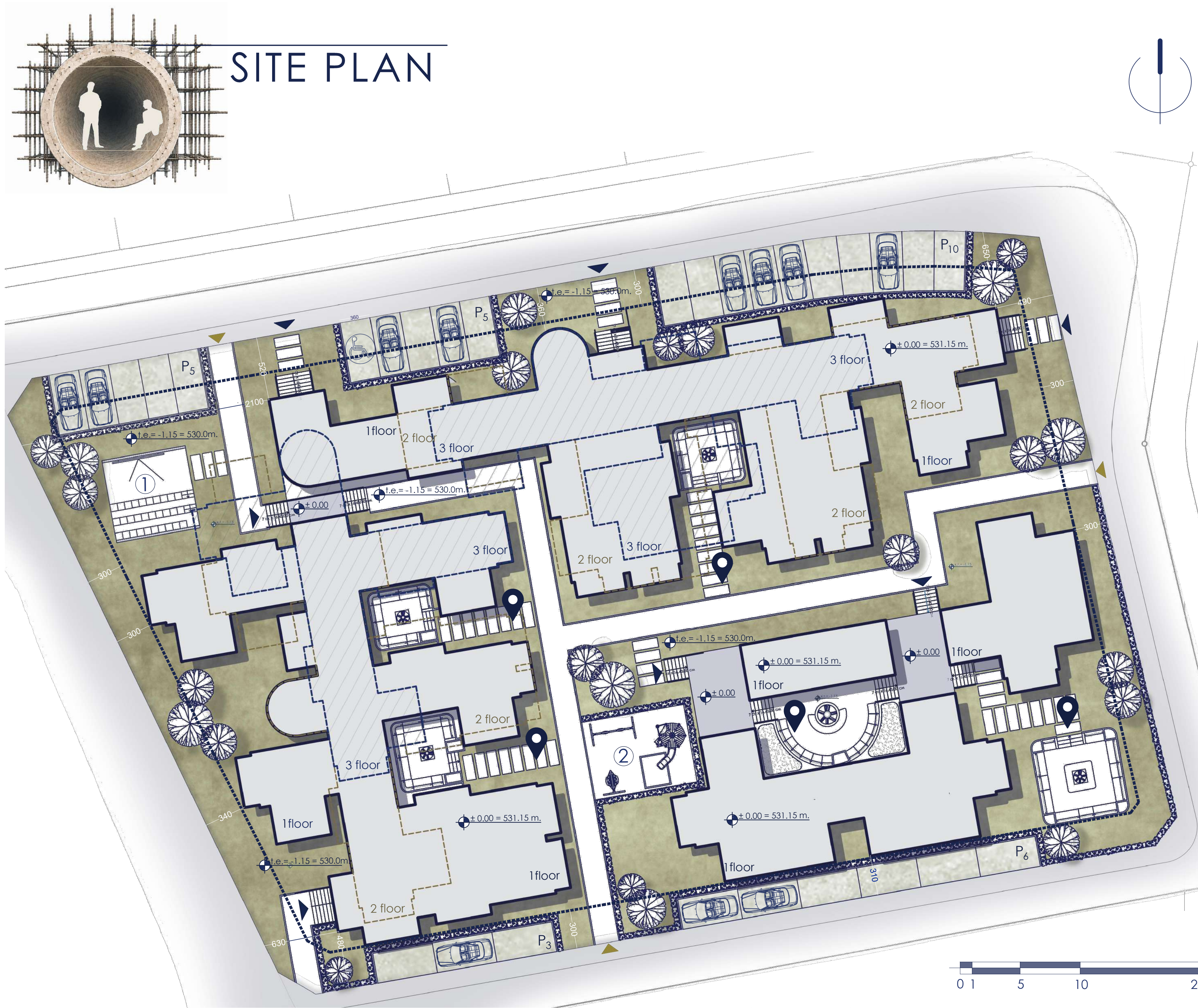
- A network of spaces designed for communication, social interaction, and everyday encounters between residents.

- Outdoor cinema, playgrounds, and social points encourage community building and active participation.

- 29 parking spaces are located along the perimeter of the site, matching the number of residential units.

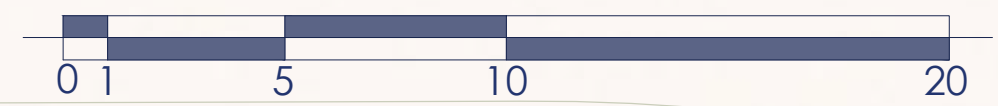
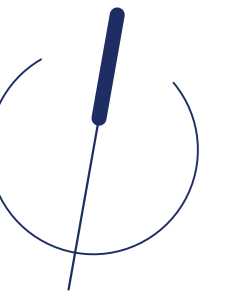
- The buildings are accessed through several independent entrances and vertical circulation cores designed in compliance with fire safety and evacuation regulations.

- By integrating infrastructure, housing, and public space, the project creates a new identity for the site and offers a sustainable environment for social living.

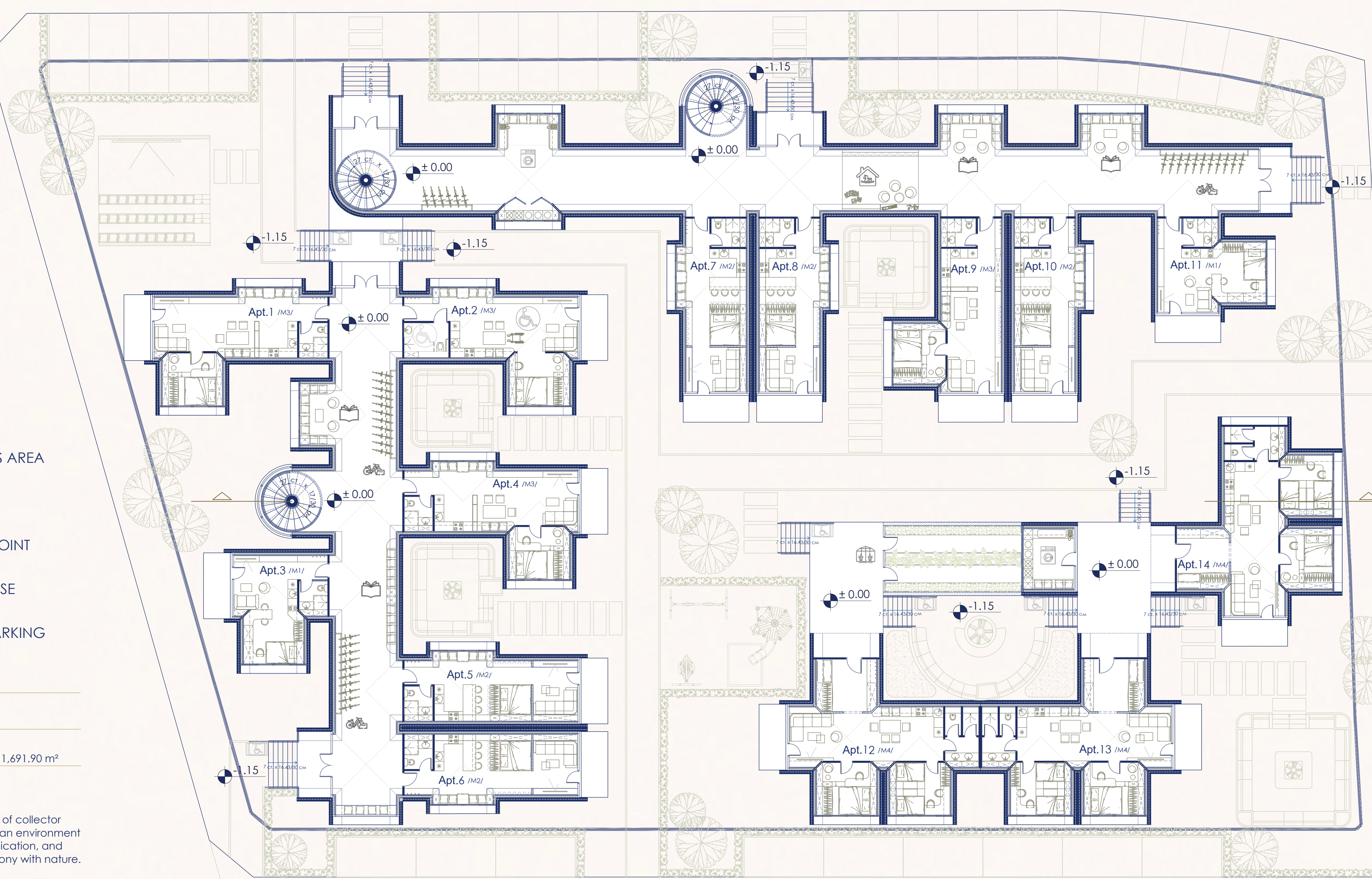




GROUND FLOOR PLAN ±0.00

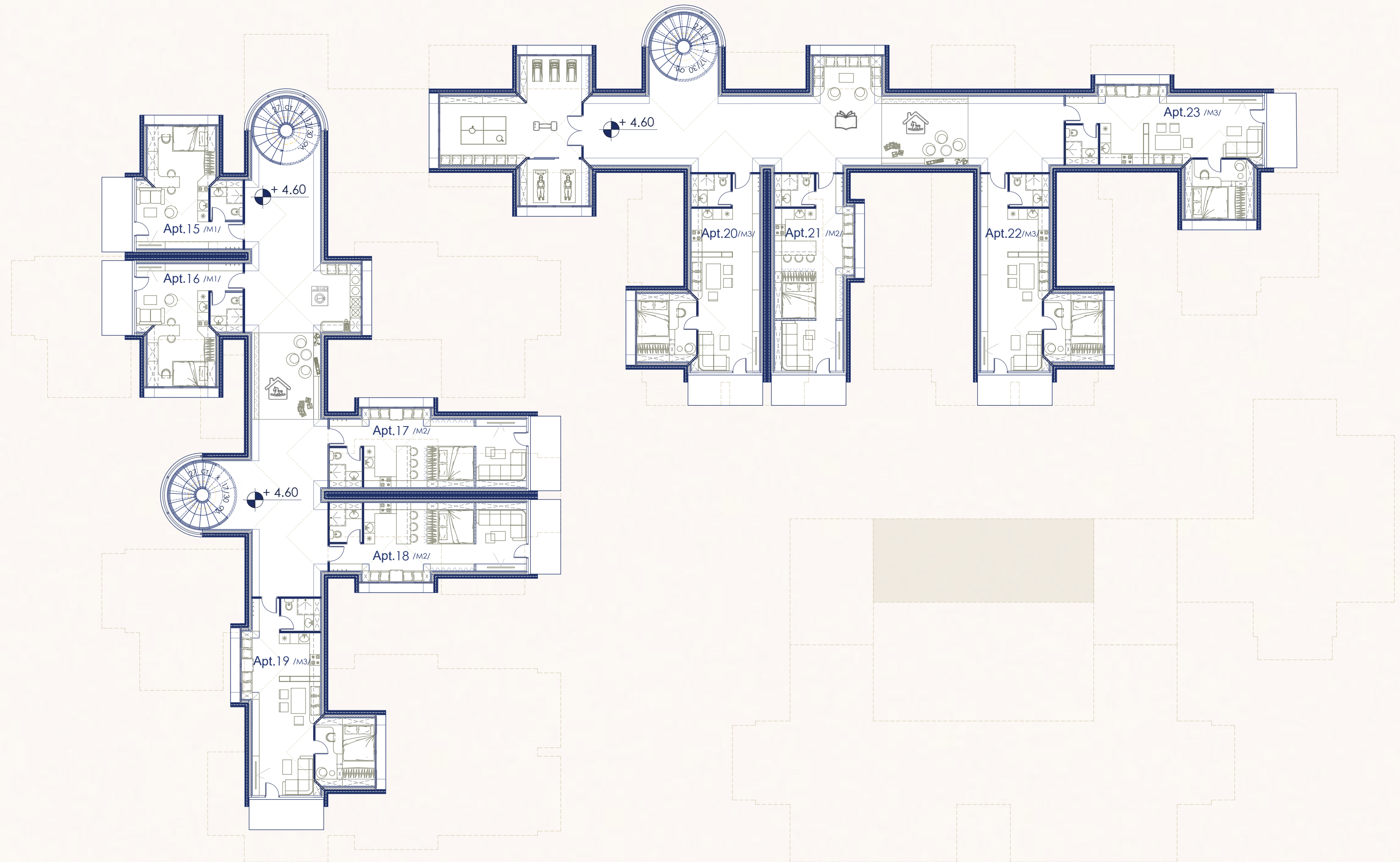
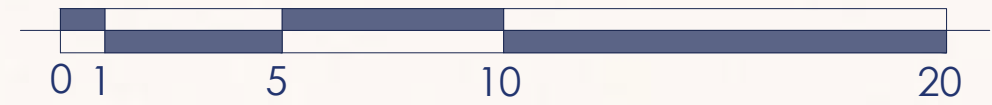
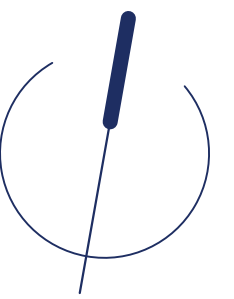


- LEGEND:**
- CHILDREN'S AREA
 - LAUNDRY
 - READING POINT
 - GREENHOUSE
 - BICYCLE PARKING
 - 14 APARTMENTS
 - 5 ENTRANCES
 - BUILDING FOOTPRINT – 1,691.90 m²
 - A flexible structure of collector modules that creates an environment for living, communication, and development in harmony with nature.





SECOND FLOOR PLAN +4.60



LEGEND

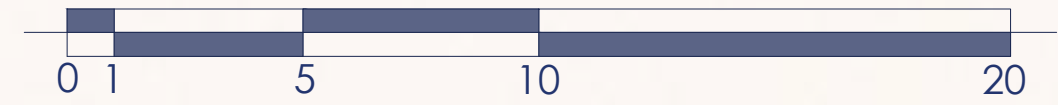
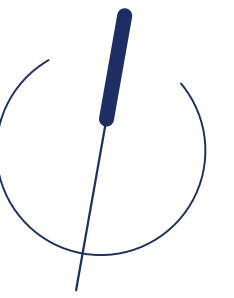
-  CHILDREN'S AREA
-  LAUNDRY
-  READING POINT
-  SPORT

-  9 STAIRCASES
-  3 STAIRCASES
-  BUILDING FOOTPRINT – 963.90 m²

At elevation +4.60, the number of residential modules gradually decreases, forming a stepped composition. This arrangement creates a pyramid-like silhouette that improves access to natural daylight within the interior spaces.



THIRD FLOOR PLAN +9.20



LEGEND:

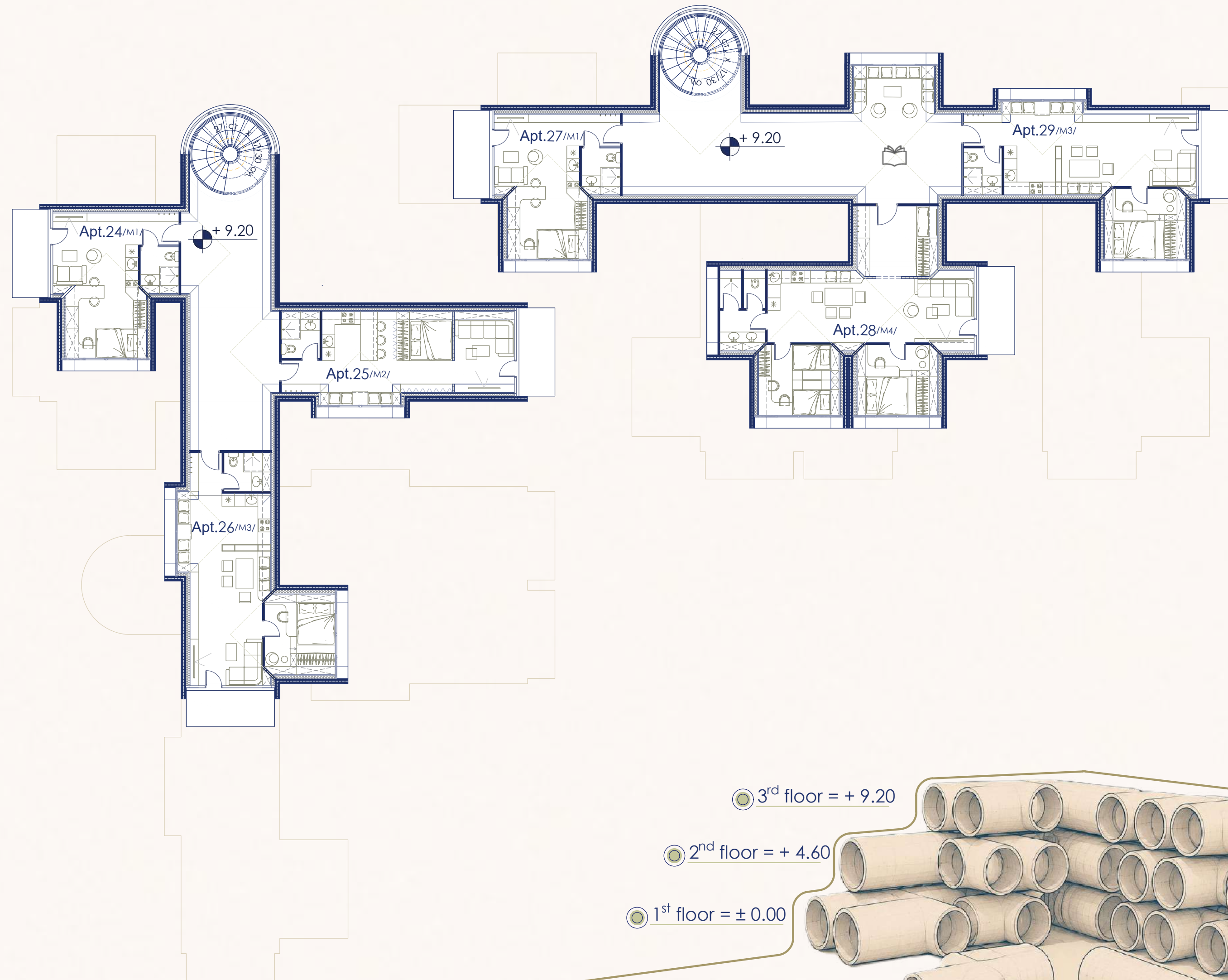
 READING CORNER

 6 APARTMENTS

 2 STAIRCASES

 BUILDING FOOTPRINT – 602.70 m²

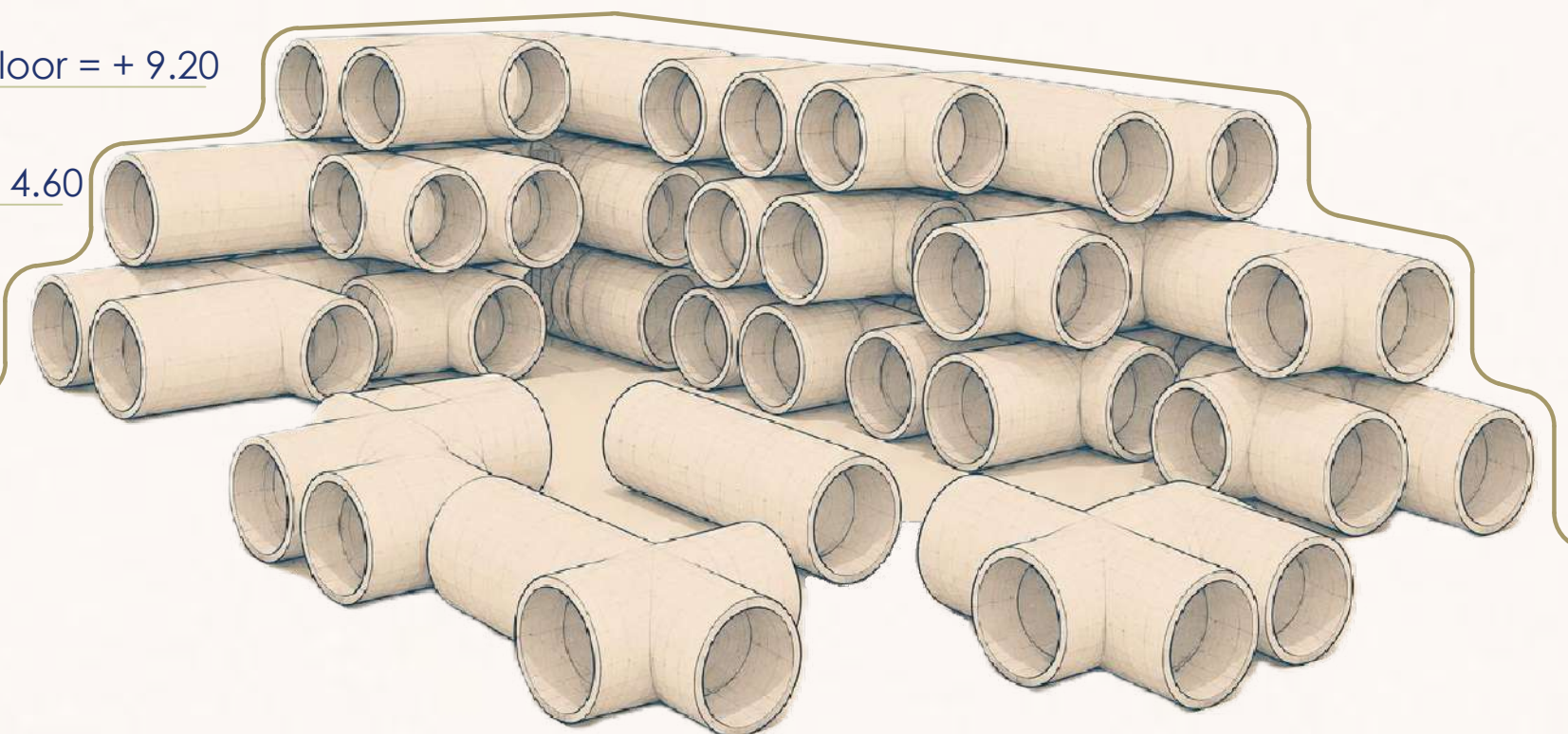
The third and final level emphasizes the vertical tapering of the structure. The reduced number of modules creates a lighter spatial composition while enhancing visual and physical connections with the surrounding environment.



 3rd floor = + 9.20

 2nd floor = + 4.60

 1st floor = ± 0.00





SECTION – SILHOUETTE

... A system of modules connected through shared spaces, light, and movement ...

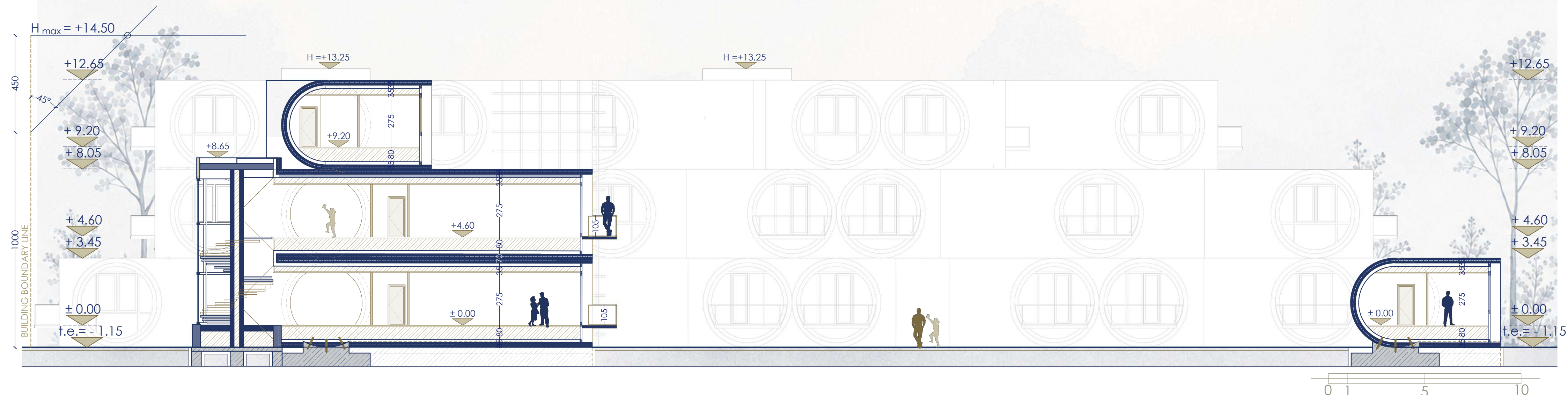


ADVANTAGES OF THE STRUCTURAL SYSTEM

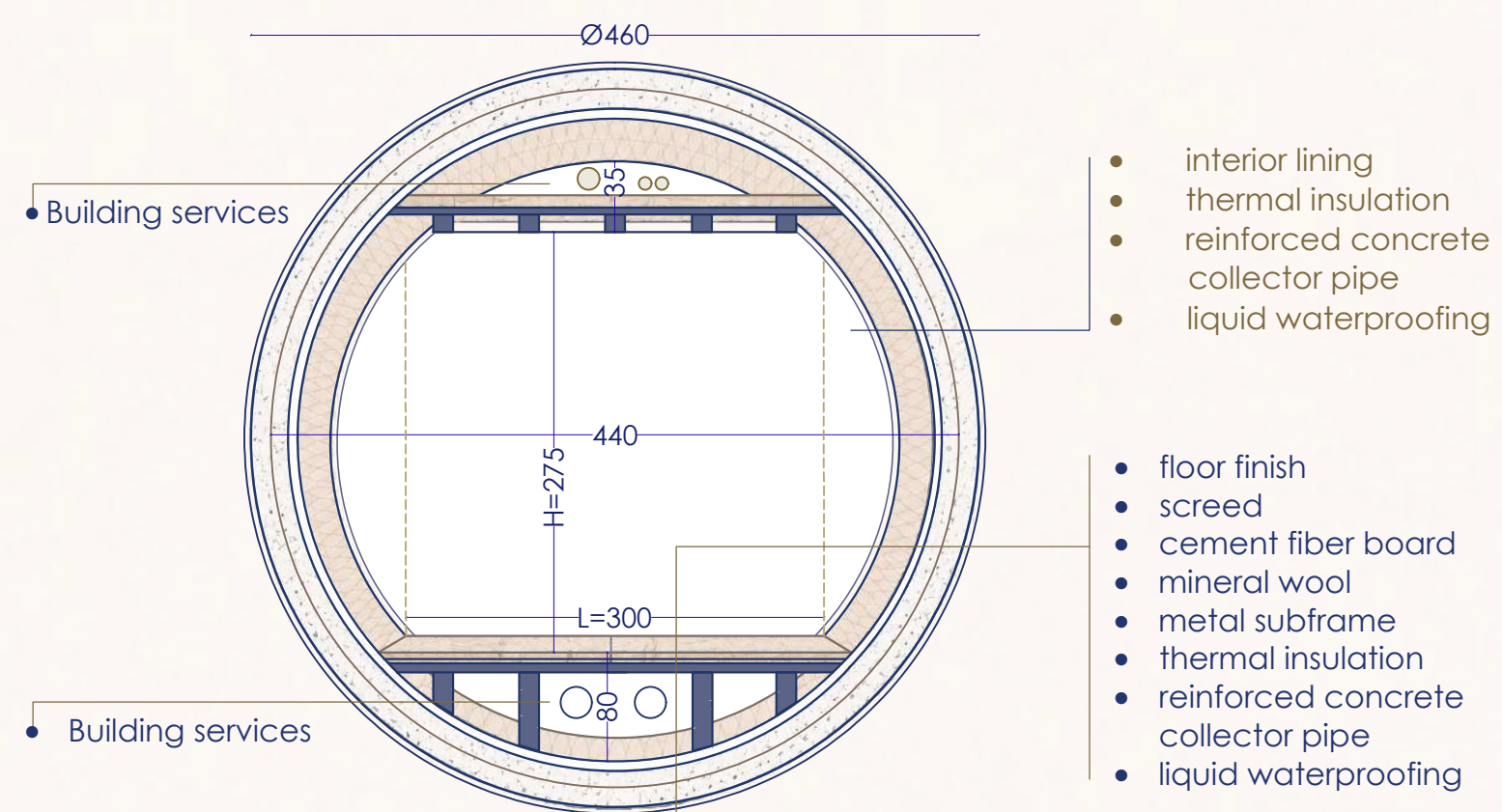
- Modular system – allows the addition, removal, and reconfiguration of residential modules.
- Easy access to building services.
- Excellent thermal insulation.
- High acoustic comfort.
- Fast assembly – prefabricated modules and dry construction.
- Structural stability – self-supporting cylindrical shells.



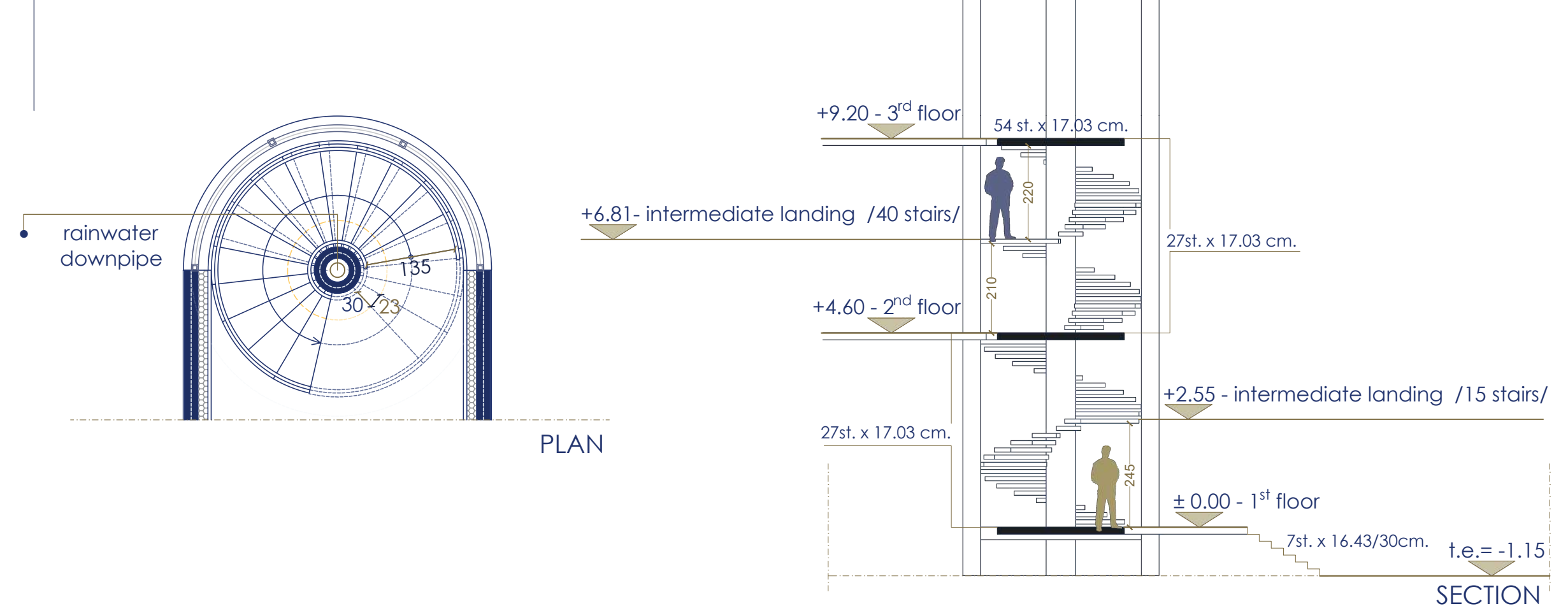
РАЗРЕЗ - СИЛУЕТ



REINFORCED CONCRETE COLLECTOR PIPE - SECTION - Ø 460



THE STAIRCASE

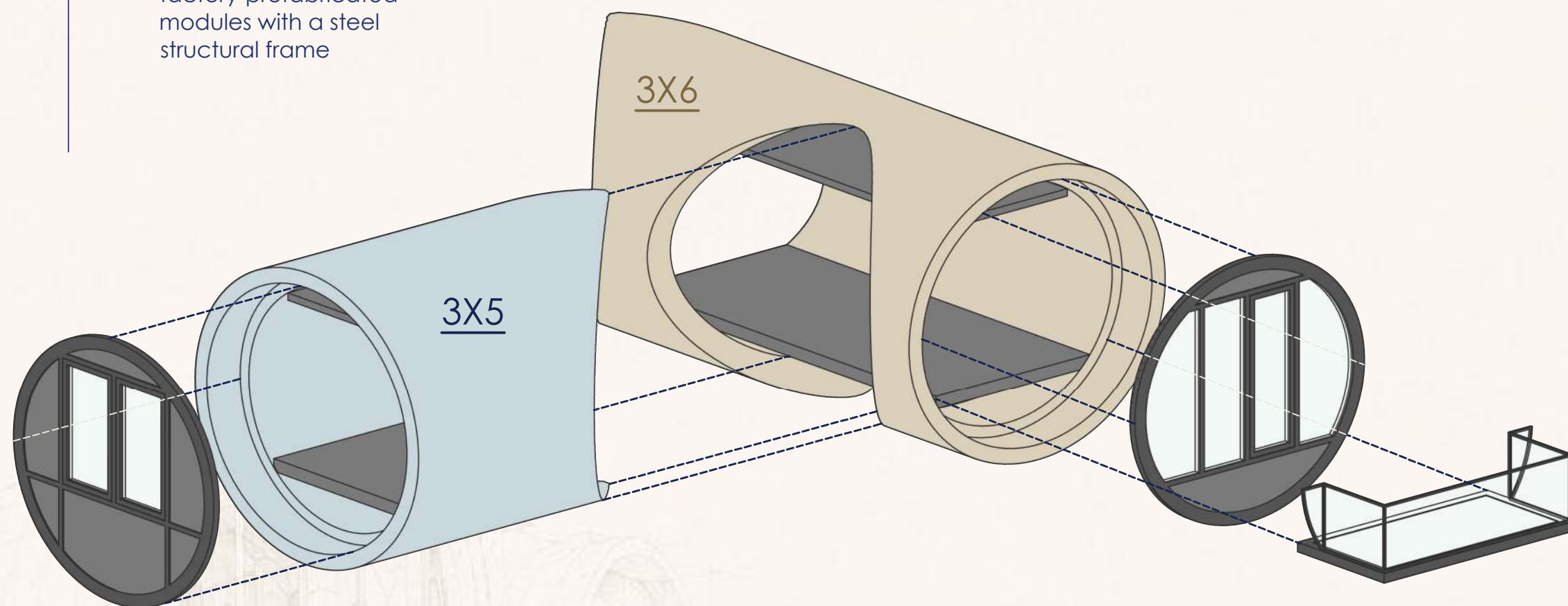




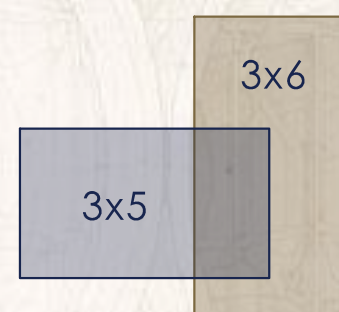
MODULE 01

EXPLODED AXONOMETRIC

- factory-prefabricated modules with a steel structural frame

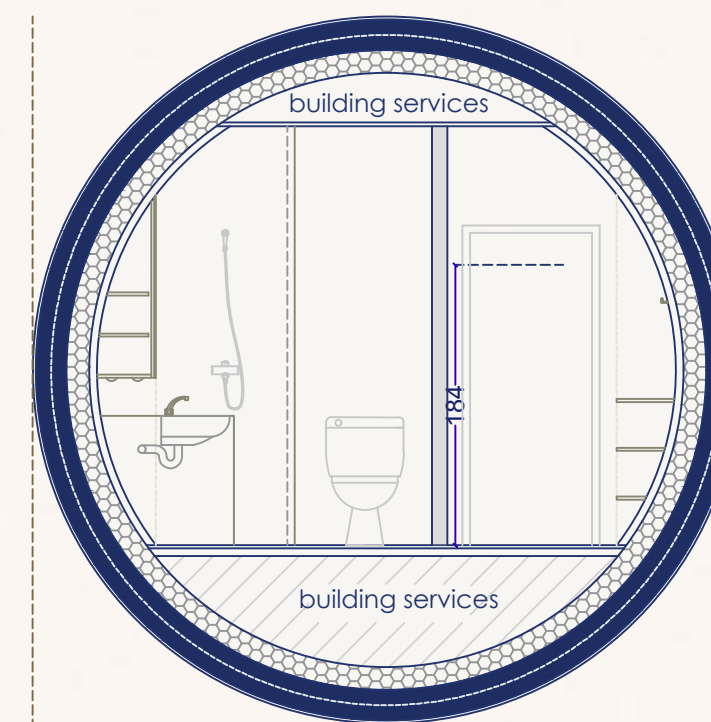


MODULE CONFIGURATION $S = 28.5 \text{ m}^2$

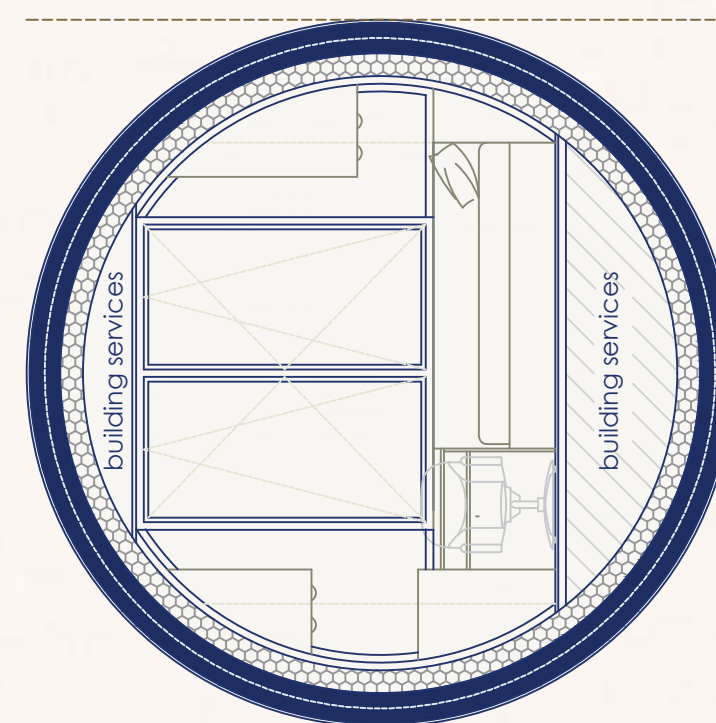


NET FLOOR AREA	28.5 m ²
CLEAR HEIGHT	2.75 m
RESIDENTS	1 PERSON

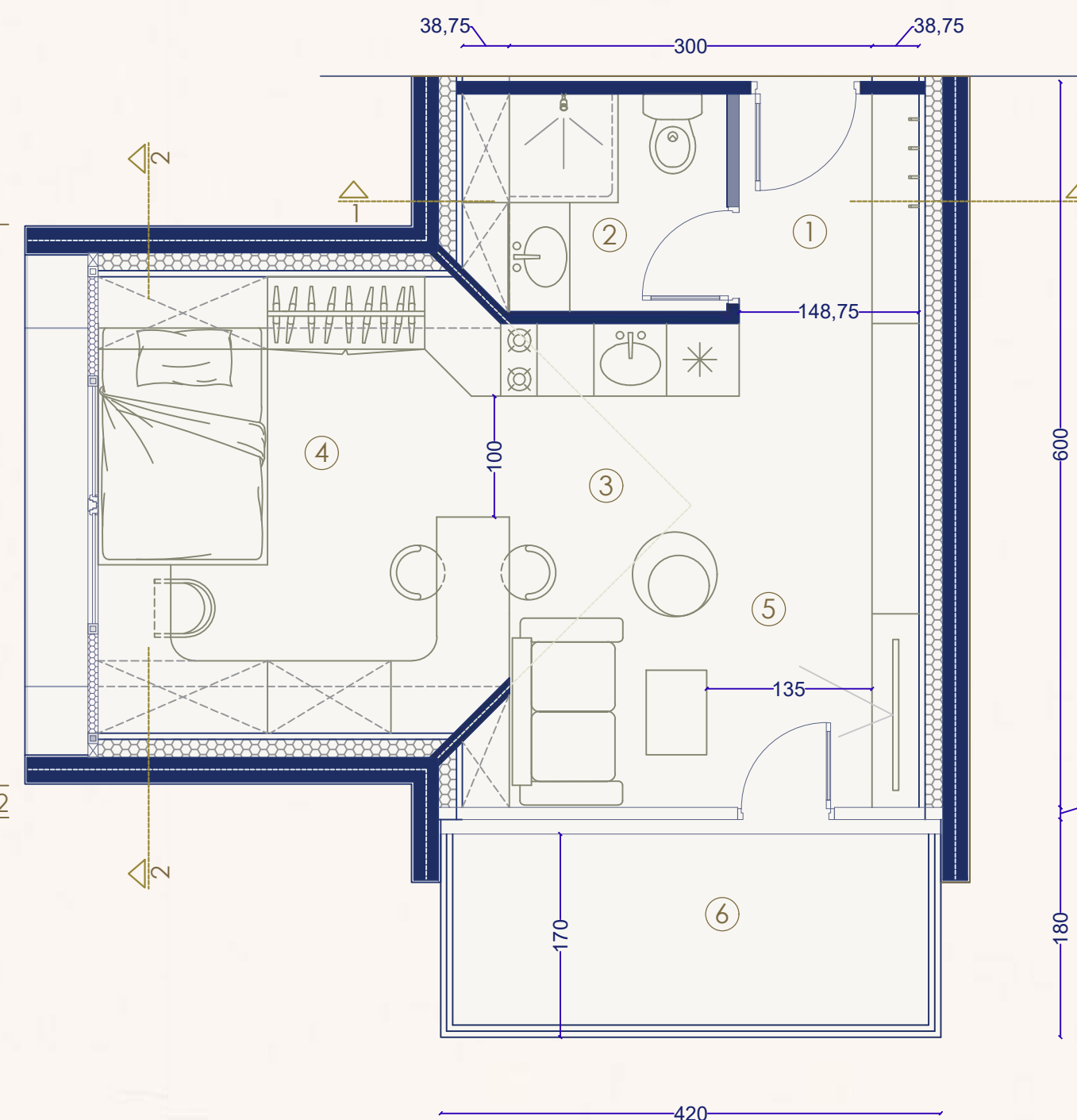
- 1. ENTRANCE HALL /2.10 m²/
 - 2. BATHROOM /3.20 m²/
 - 3. KITCHEN & DINING AREA /7.50m²/
 - 4. LIVING AREA /6.50m²/
 - 5. BEDROOM /7.50 m²/
 - 6. TERRACE /6.8 m²/
- A residential module designed for a single occupant, integrating all essential functions for comfortable everyday living within a compact footprint. The layout is organized to maximize functionality, natural daylight, and visual connection with the surrounding environment.



SECTION 1



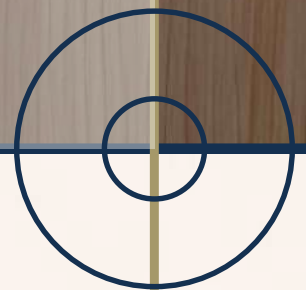
SECTION 2



FLOOR PLAN

...Living begins with thoughtful design...

01



RE:LIVE

...Compact. Flexible. Comfortable...



RE:LIVE

...Home is not defined by its size, but by the life it embraces...

01

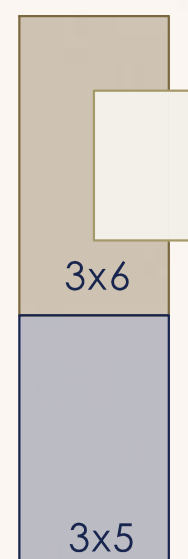


RE:LIVE



MODULE 02

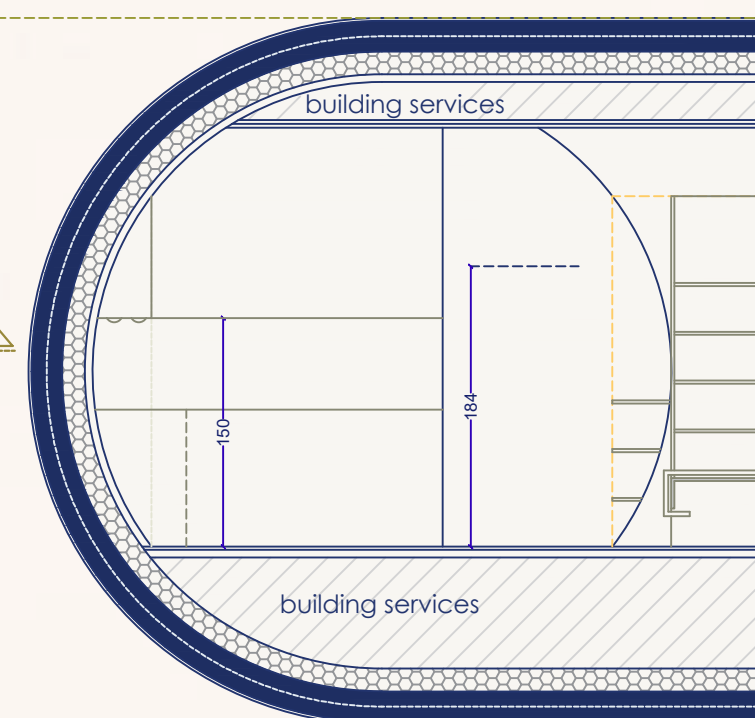
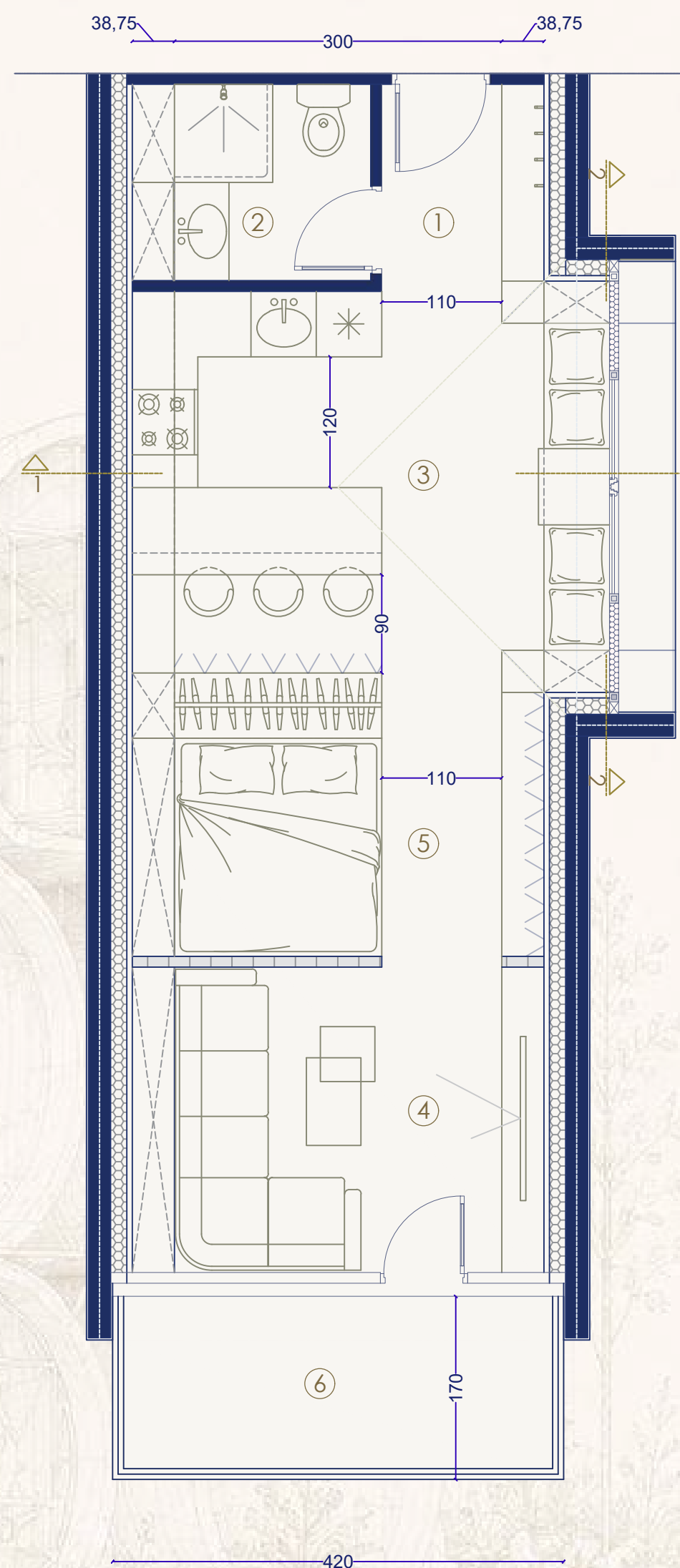
MODULE
CONFIGURATION
 $S = 30.0 \text{ m}^2$



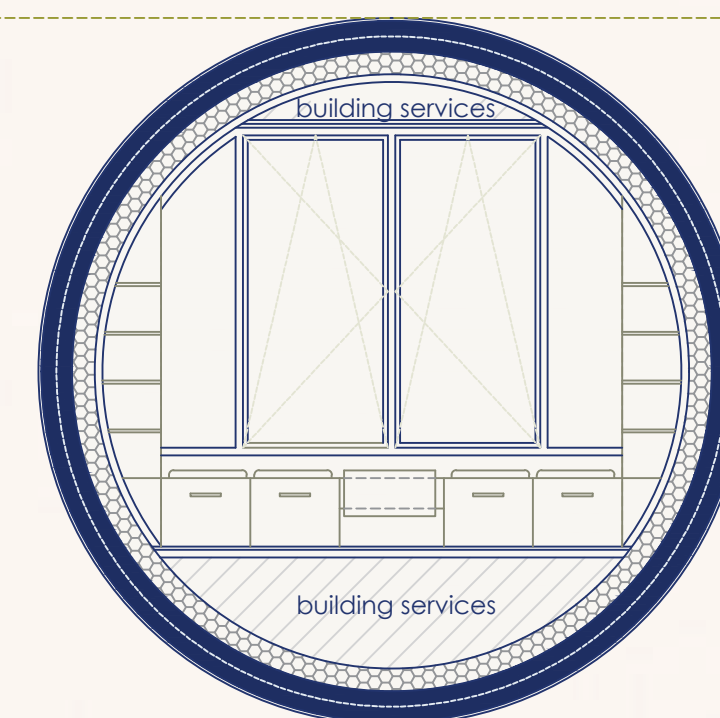
- 1. ENTRANCE HALL / 2.10 m^2 /
- 2. BATHROOM / 3.20 m^2 /
- 3. KITCHEN & DINING AREA / 13.5 m^2 /
- 4. LIVING AREA / 8.4 m^2 /
- 5. BEDROOM / 7.80 m^2 /
- 6. TERRACE / 6.8 m^2 /

NET FLOOR AREA	30.0 m^2
CLEAR HEIGHT	2.75 m^2
RESIDENTS	1/2 people

A residential module designed for one or two people, combining compactness and functionality within a limited footprint. The layout includes an open-plan living area with a kitchen and dining space, a bedroom, a bathroom, an entrance hall, and a private terrace. The organization of the interior clearly separates the living and sleeping zones while creating a bright, comfortable, and efficient living environment.



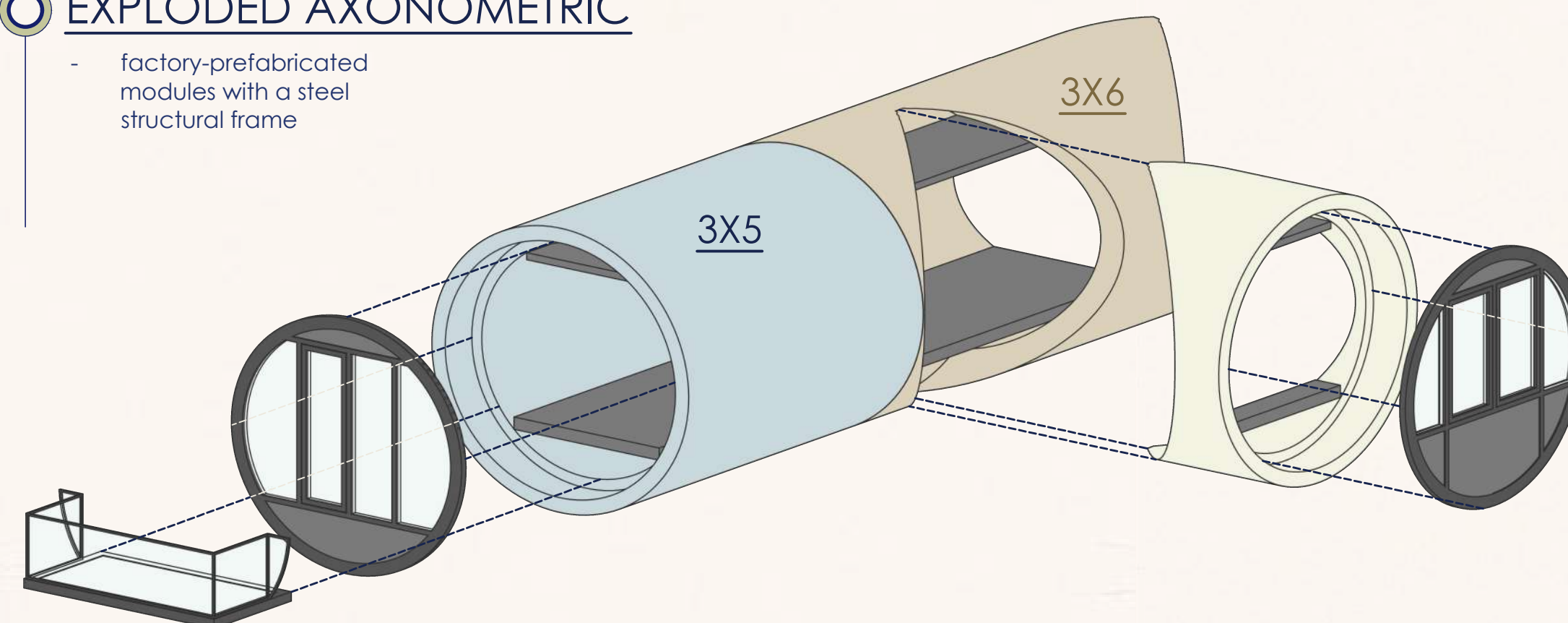
SECTION 1



SECTION 2

EXPLODED AXONOMETRIC

- factory-prefabricated modules with a steel structural frame



...Living well starts with thoughtful design...

02



RE:LIVE

...The quietest corner often holds the greatest stories...

02



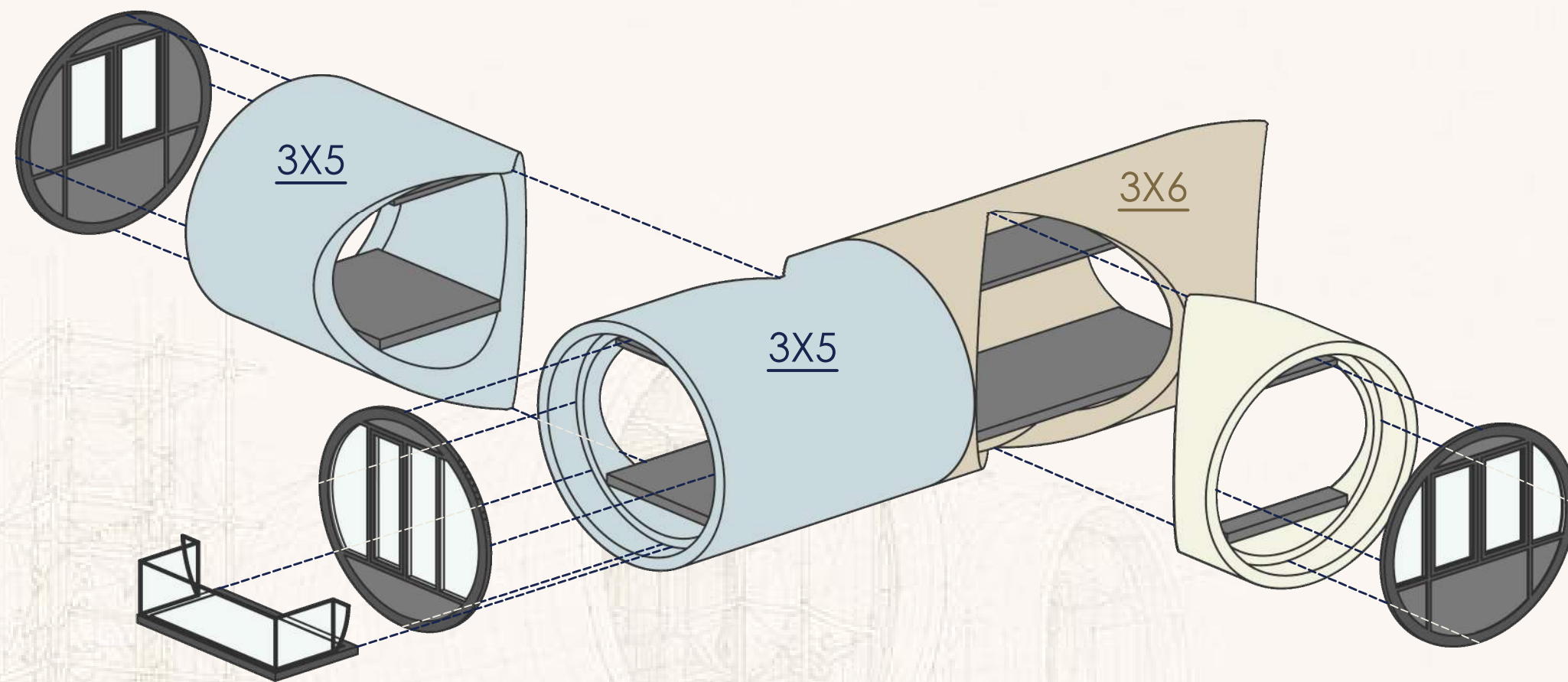
RE:LIVE



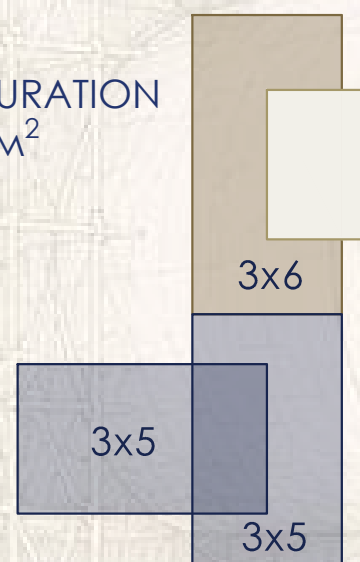
MODULE 03

EXPLODED AXONOMETRIC

- factory-prefabricated modules with a steel structural frame



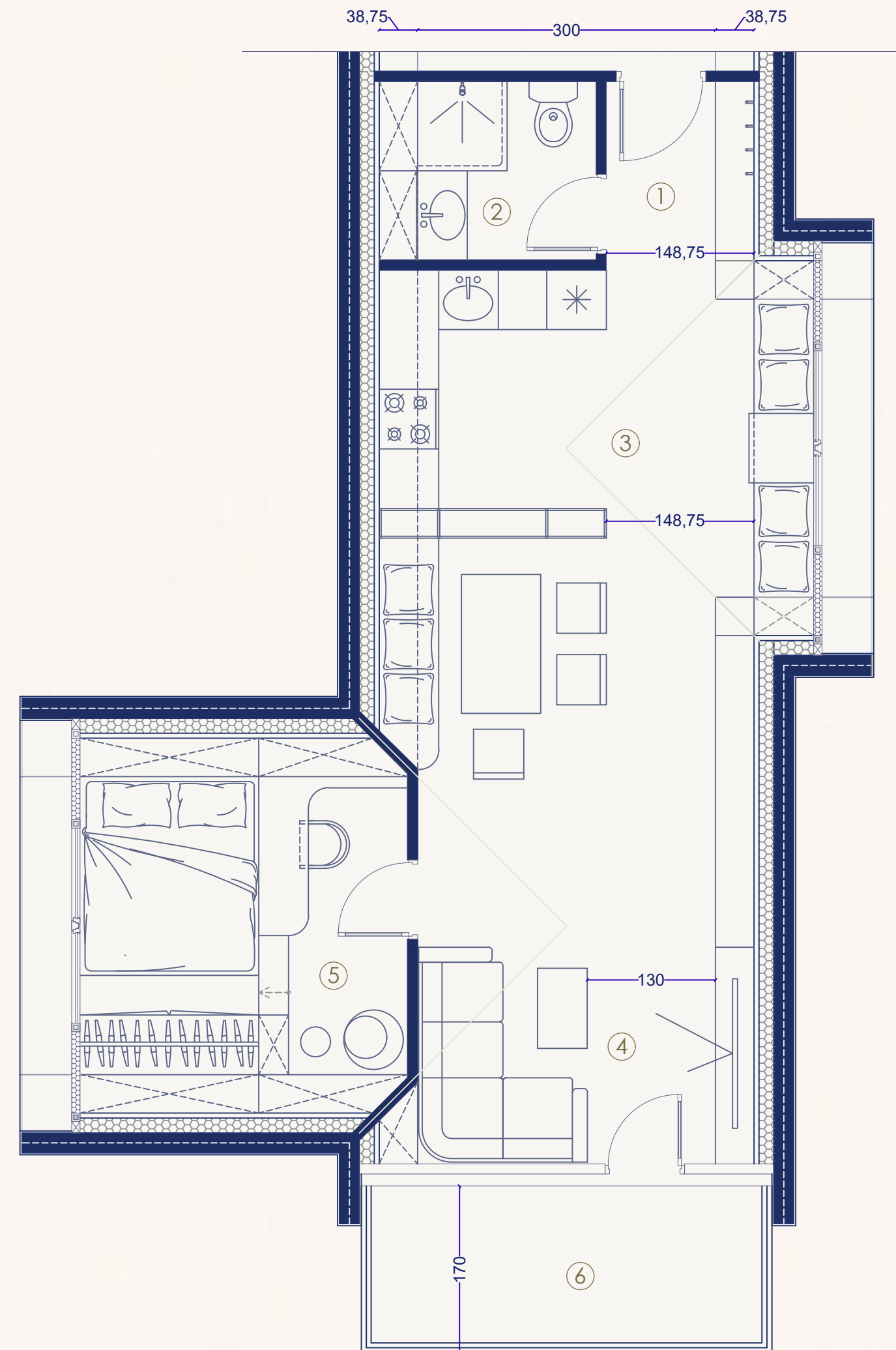
MODULE CONFIGURATION $S = 45.8 \text{ m}^2$



- 1. ENTRANCE HALL / 2.10 m^2 /
- 2. BATHROOM / 3.20 m^2 /
- 3. KITCHEN & DINING AREA / 17.3 m^2 /
- 4. LIVING AREA / 11.3 m^2 /
- 5. BEDROOM / 9.90 m^2 /
- 6. TERRACE / 6.8 m^2 /

NET FLOOR AREA	45.8 m^2
CLEAR HEIGHT	2.75 m^2
RESIDENTS	2 people

A compact and functional residential module for two occupants, designed to provide comfort through natural daylight, a flexible spatial layout, and a seamless connection to nature.



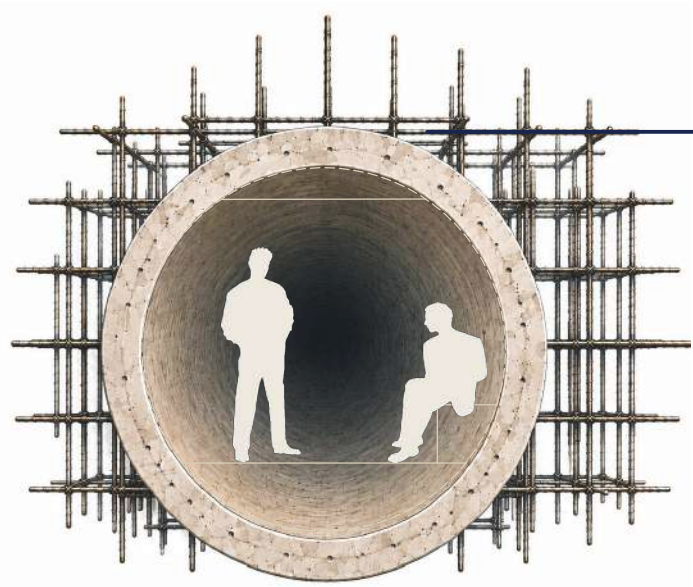
FLOOR PLAN

...Designed for everyday moments. Built for a lifetime...



...Where childhood, comfort, and home meet...

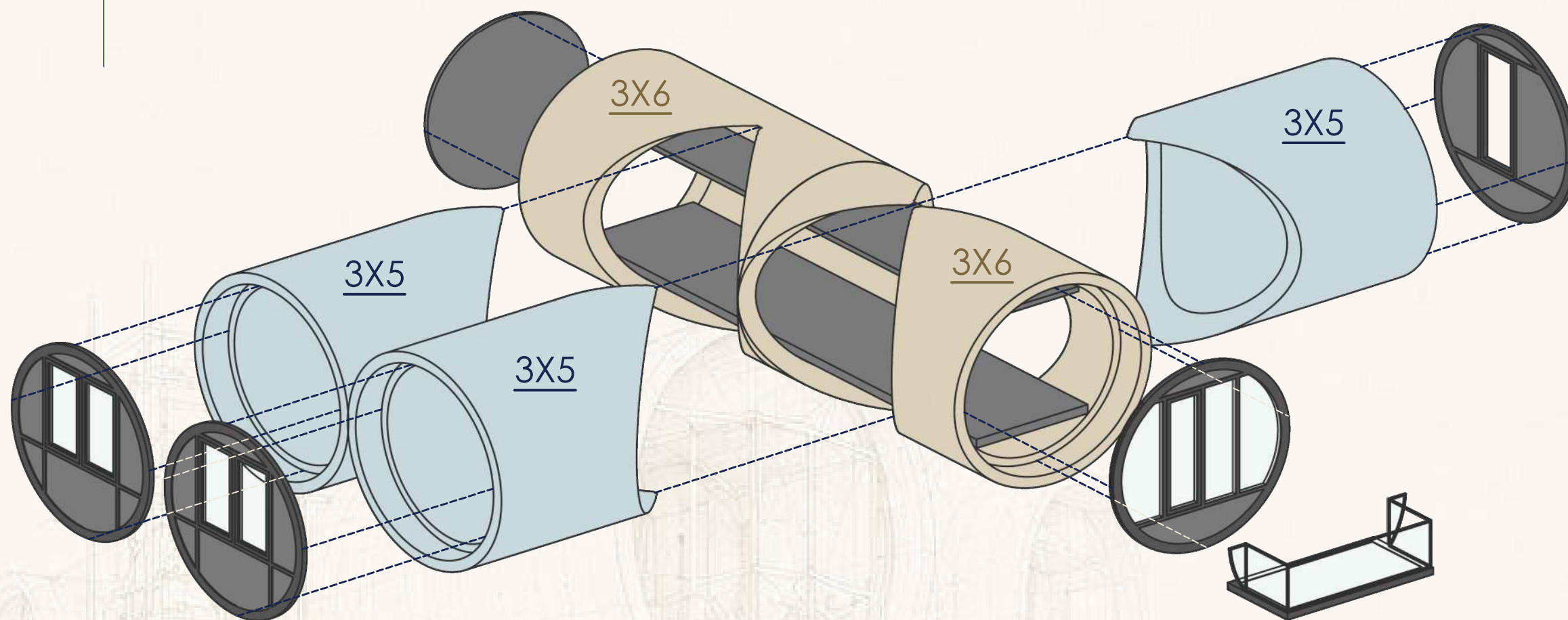




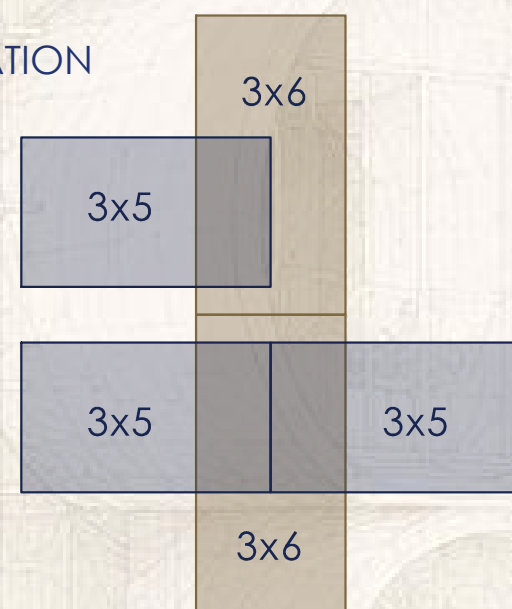
MODULE 04

EXPLODED AXONOMETRIC

- factory-prefabricated modules with a steel structural frame



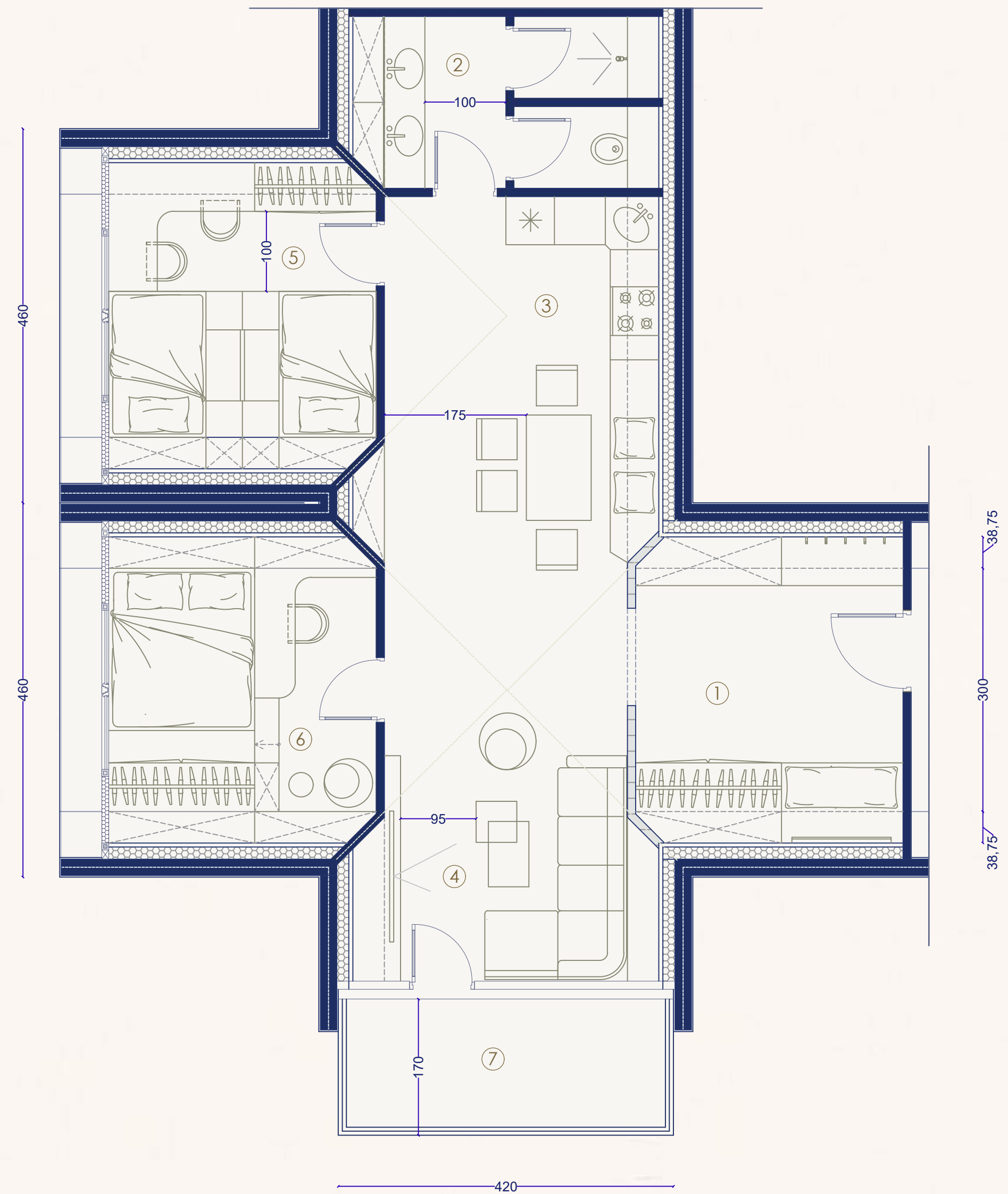
MODULE CONFIGURATION $S = 66.5 \text{ m}^2$



NET FLOOR AREA	66.5 m ²
CLEAR HEIGHT	2.75 m
RESIDENTS	3/4 people

- 1. ENTRANCE HALL /9.90 m²/
- 2. BATHROOM /6.40 m²/
- 3. KITCHEN & DINING AREA /15.3 m²/
- 4. LIVING AREA /13.8 m²/
- 5. BEDROOM /9.90 m²/
- 6. BEDROOM /9.90 m²/
- 7. TERRACE /6.8 m²/

A compact and functional family module designed for 3–4 occupants. It combines an open-plan living area, kitchen and dining space, a master bedroom, a children's bedroom, and essential service areas into a flexible layout that maximizes natural daylight, comfort, and the balance between shared and private spaces.



...A place to grow, play, and belong...



...Every home has a story to tell...



RE:LIVE



SOCIAL POINTS

01

... Places that create connections...
spaces that inspire and enrich the
community...



A quiet and cozy space designed for reading, studying, and relaxation. Organized as an area for concentration and calmness, it encourages personal development and social interaction in an informal setting.



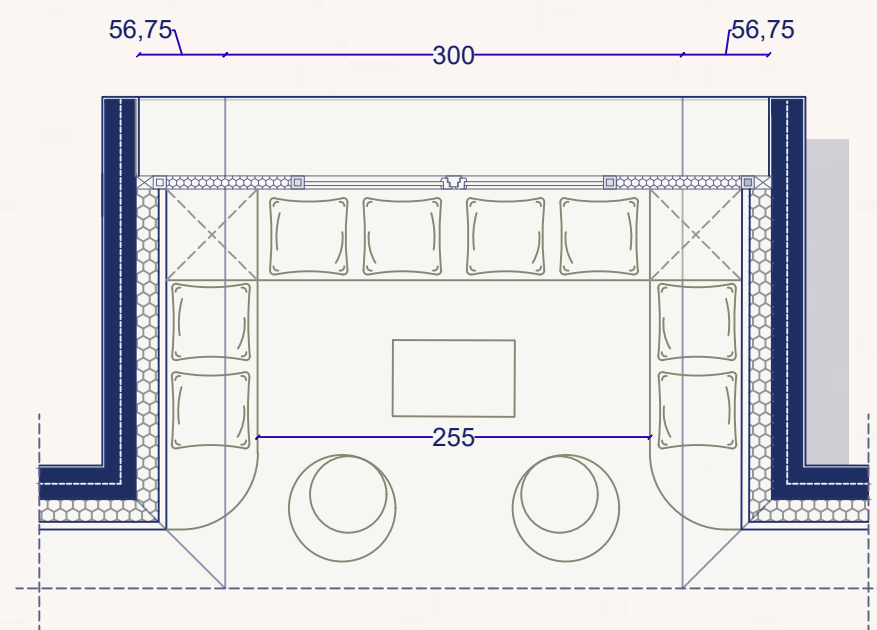
NET FLOOR AREA 14.5 m²



CLEAR HEIGHT 2.75 m



CAPACITY 10 people



1. READ POINT



An indoor space for play, creativity, and learning. Through diverse activities and interactive elements, the children's area stimulates imagination, motor skills, and social interaction among children.



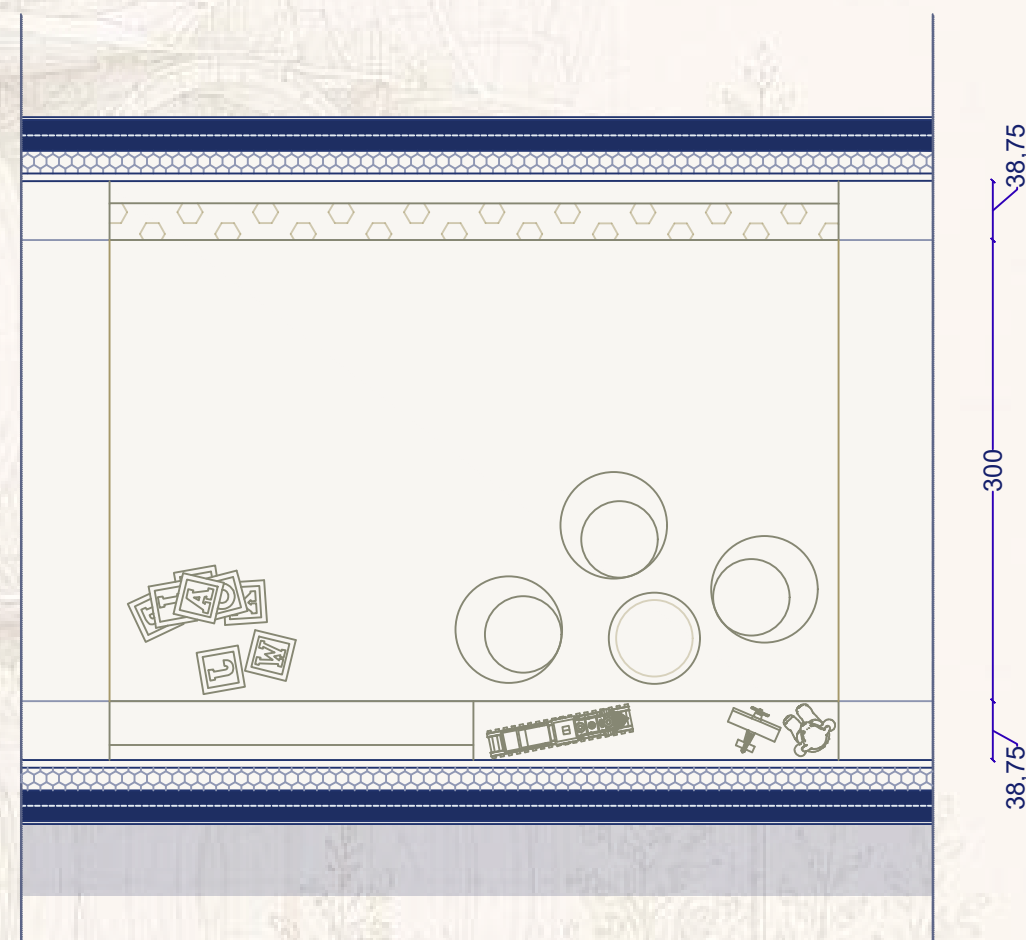
NET FLOOR AREA 14.0 m²



CLEAR HEIGHT 2.75 m



CAPACITY 4-5 children



2. CHILDREN'S AREA

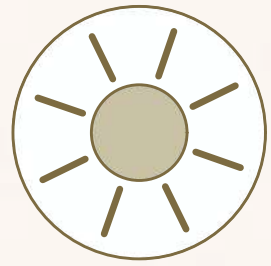




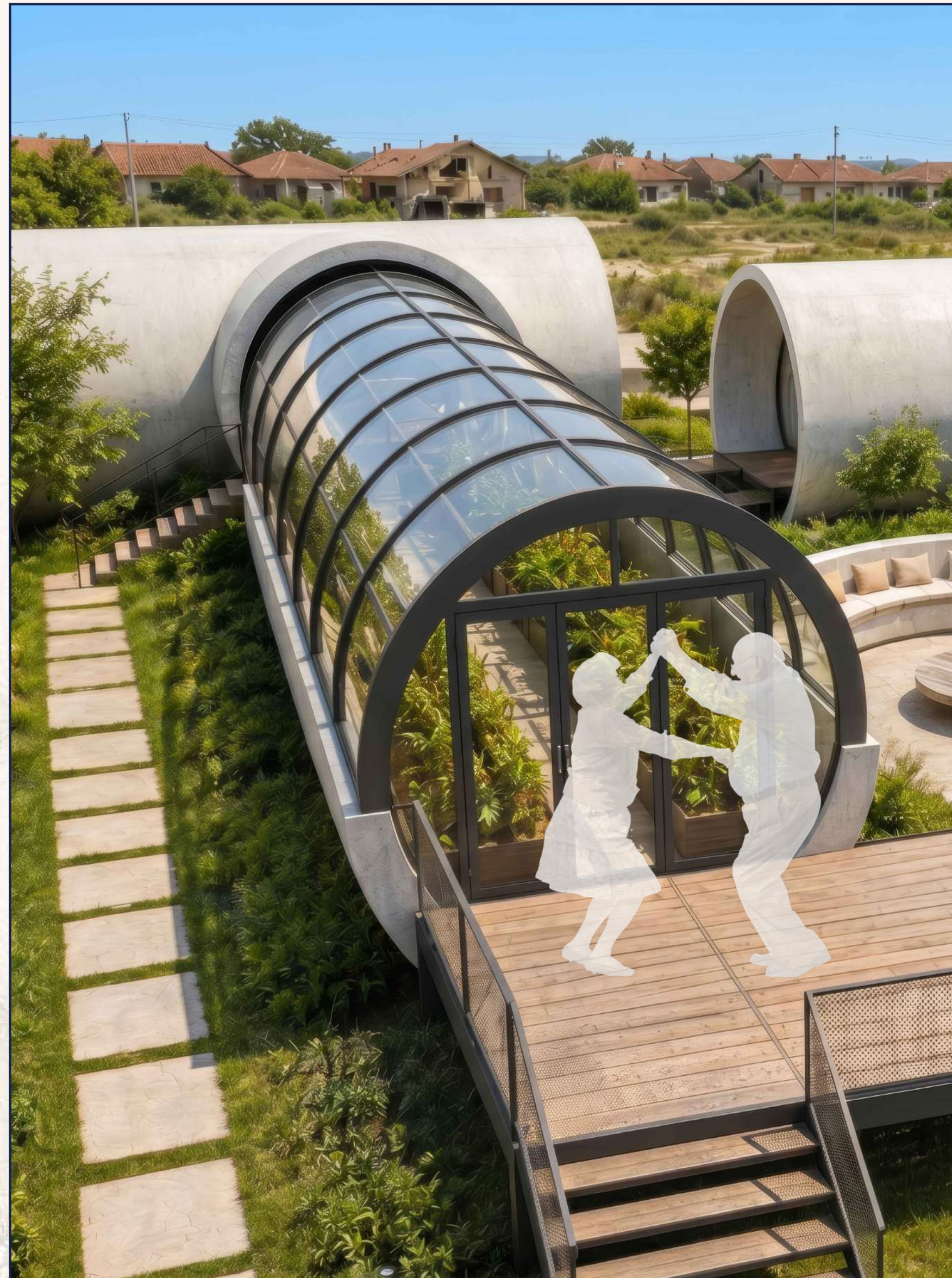
SOCIAL POINTS

... Architecture that strengthens the connection between people and nature through shared spaces and a sustainable way of living ...

02



ACTIVITY & GROWTH



SHARED MOMENTS



THE GREENHOUSE



RE:LIVE

...Where architecture and nature grow together...

...Every childhood deserves a place to grow...



RE:LIVE

THE PLAYGROUND

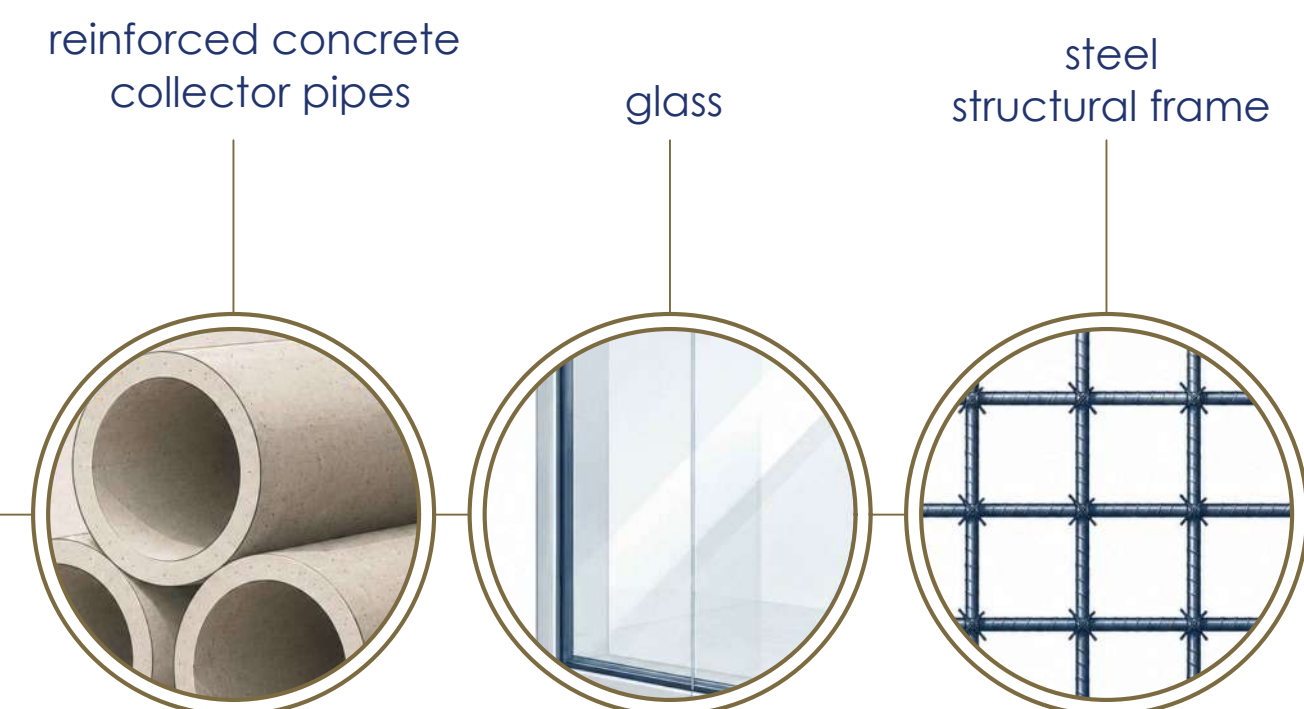
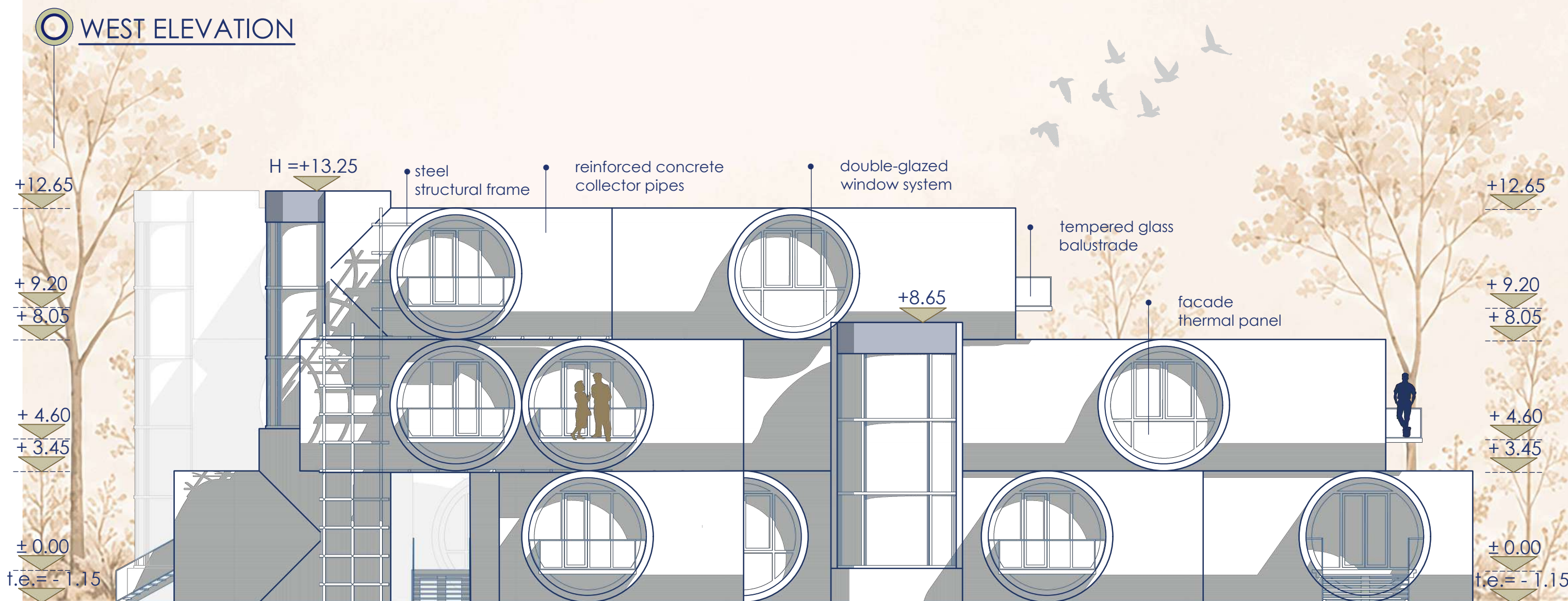


ELEVATIONS

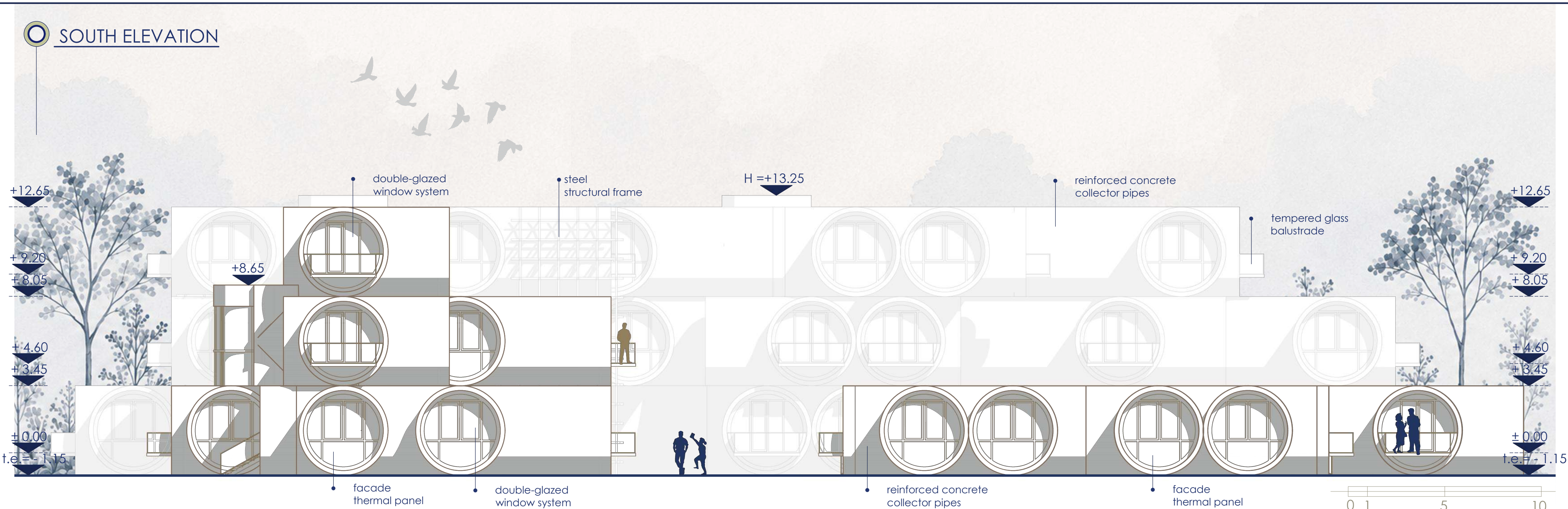
...From collector to collective — architecture that breathes new life into both space and the people who inhabit it ...

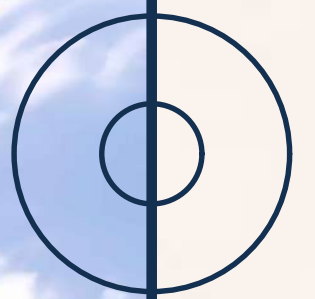
01

WEST ELEVATION



SOUTH ELEVATION





RE:LIVE



...A place where everyone belongs...

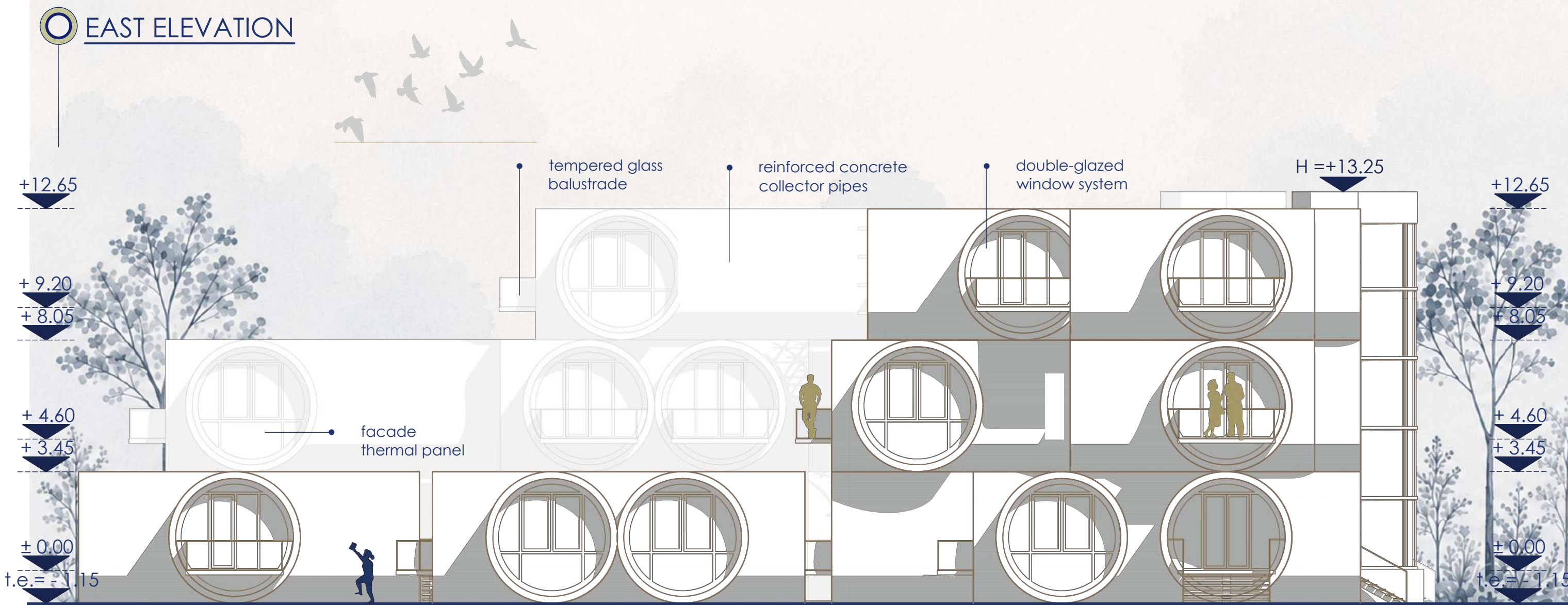


ELEVATIONS

...Between concrete and nature, between the individual and the collective, a new home is born...

02

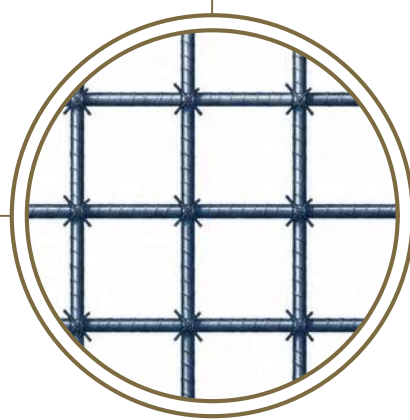
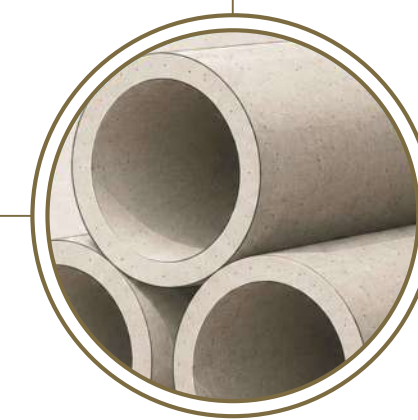
EAST ELEVATION



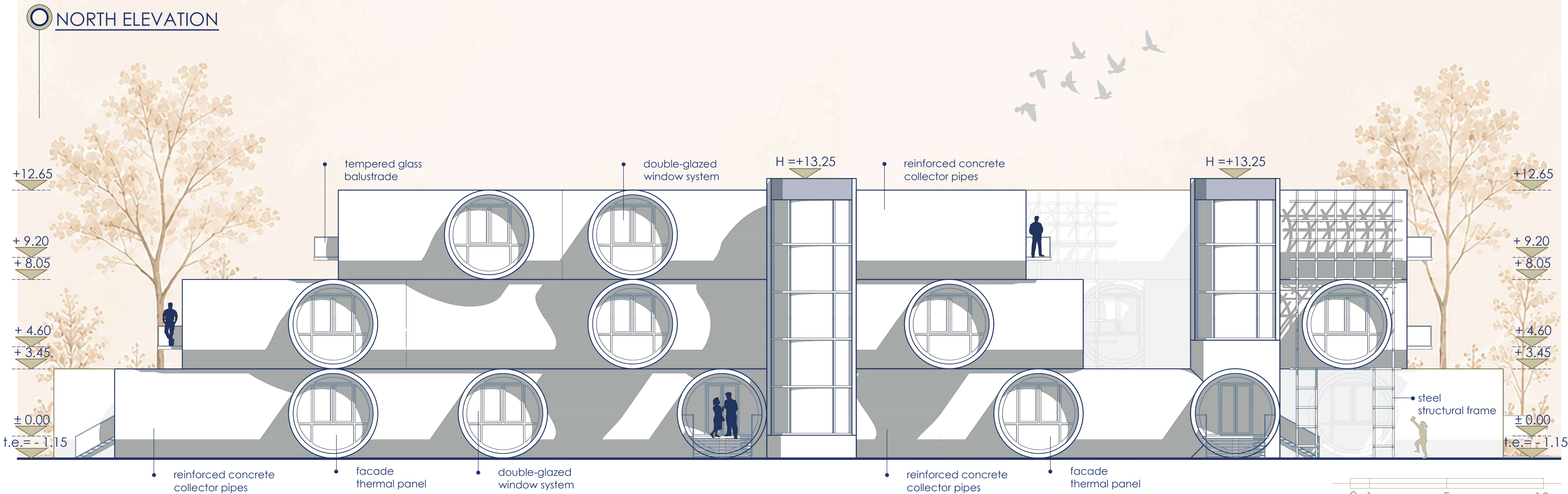
reinforced concrete
collector pipes

glass

steel
structural frame



NORTH ELEVATION





RE:LIVE

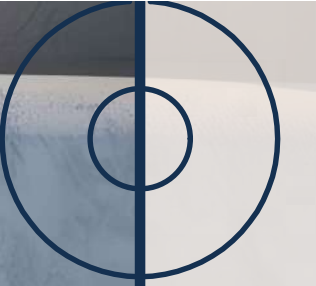
...Architecture is complete when people fill it with life...



RE:LIVE



...Built to connect. Designed to last...



RE:LIVE

...Every journey begins with a place to belong...

...Building homes. Building futures...



RE:LIVE