

21th International Edition - Belgrade 2026

**TEAM 12** – MONTENEGRO 

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**Faculty of Architecture, Podgorica**  
University of Montenegro

**Mentor:** Mirko Popović



Milica Laković



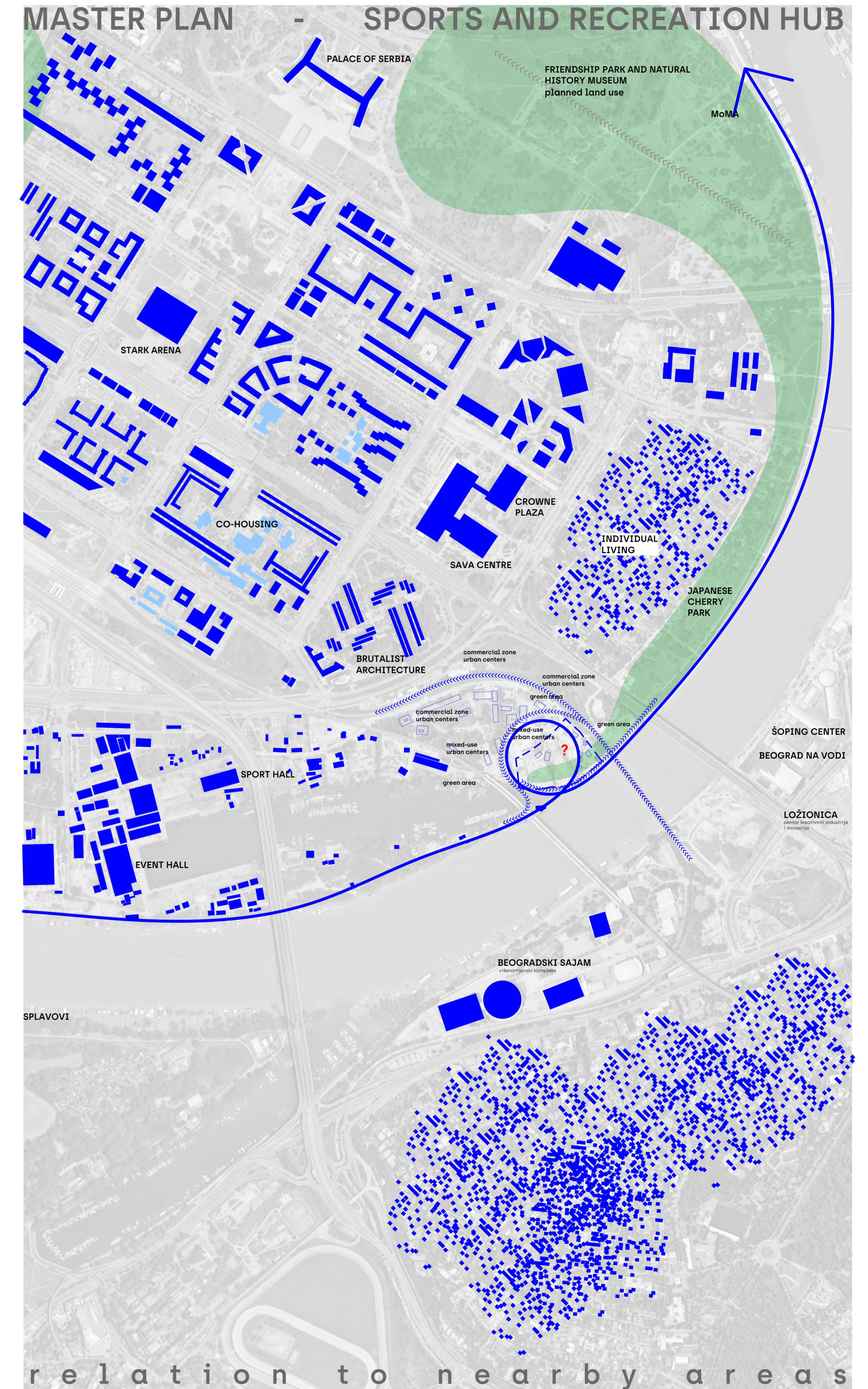
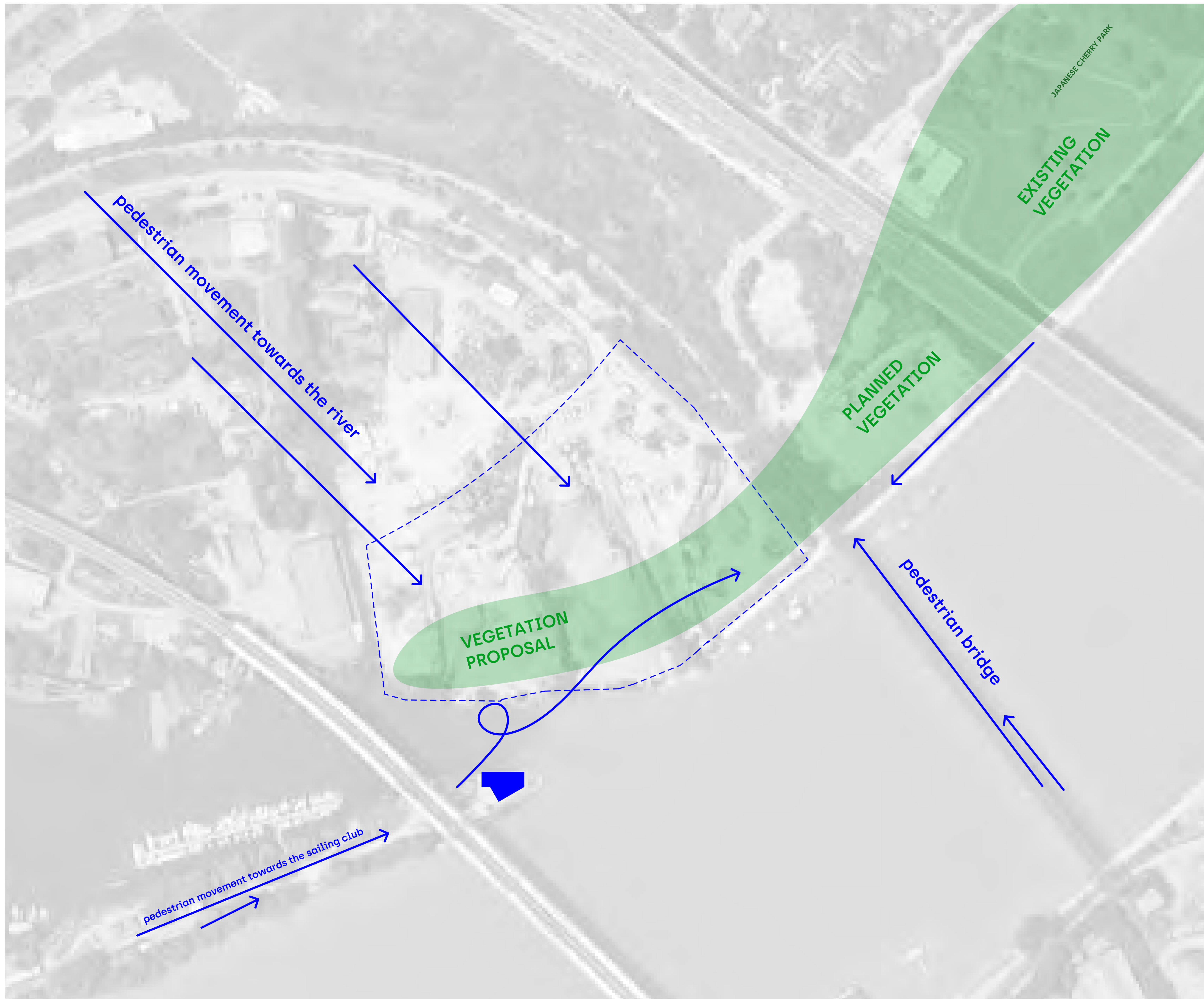
Čedo Čelik

**< THINKING BACK\_  
\_MOVING FORWARD >**

## LOCATION CONTEXT



1. Belgrade linear park
2. Sport & recreational center
3. Kalemegdan fortress
4. Belgrade Waterfront
5. Ada lake
6. Ušće [confluence] park
7. Sava Centar
8. Belgrade Arena
9. Bus & Train Station
10. New Belgrade reviera
11. Shopping malls
12. ASC project location



## < THINKING BACK\_

The city today functions like a machine, constantly imposing new speeds of processes.

Noise, speed, pollution, and constant simulation shape our lives and everyday reality.

Space is no longer a place of dwelling, but a place that is losing its identity. A person is always somewhere, yet never truly present.

The body adapts to the rhythm of the city, while the mind remains trapped in a digital reality.

### **More connected than ever, yet less present than ever.**

Touch is replaced by the screen, memory by search, and space slips into Junkspace.

Modern technology produces a system of spaces without a sense of place.

A focus on appearance-decoration without content.

We do not want such a system, but rather advancement through regression. A return to the origins.

As technology demands progress, so do humans and space.

But advancement is not always a step forward-it can also be a step backward.

Thus, it becomes the opposite of the existing.

By opposing the existing, one creates a space of resistance.

A space in which the logic of the contemporary city is interrupted.

A space where the speed of life loses meaning, and distraction (the wandering of thoughts) disappears.

The river, once a symbol of improvement and progress, today becomes merely a passing element.

An element that is not experienced in space as it should be, kept at a distance.

## \_MOVING FORWARD >

Today, the river can become a place of calm.

A place of natural flows, where one approaches in an appropriate way.

Creating an autonomous environment, an environment that unites silence, slowness, and immediate experience.

Water is not a boundary, but a space of interaction.

The ground is not a surface, but a shifting terrain that demands movement, attention, and presence.

The user is given a second chance to perceive space-to walk, touch, listen, remember.

### **Not to consume space, but to experience it.**

This is what nature has always offered, yet humans are not sufficiently aware of it.

Here, technology is not forbidden,

but in a way, it becomes unnecessary.

By inhabiting a sequence of spaces, one no longer has time to manage technology.

### **This is not nostalgia for the past.**

### **This is a critique of the present.**

In a time of hyperproduction, we choose absence.

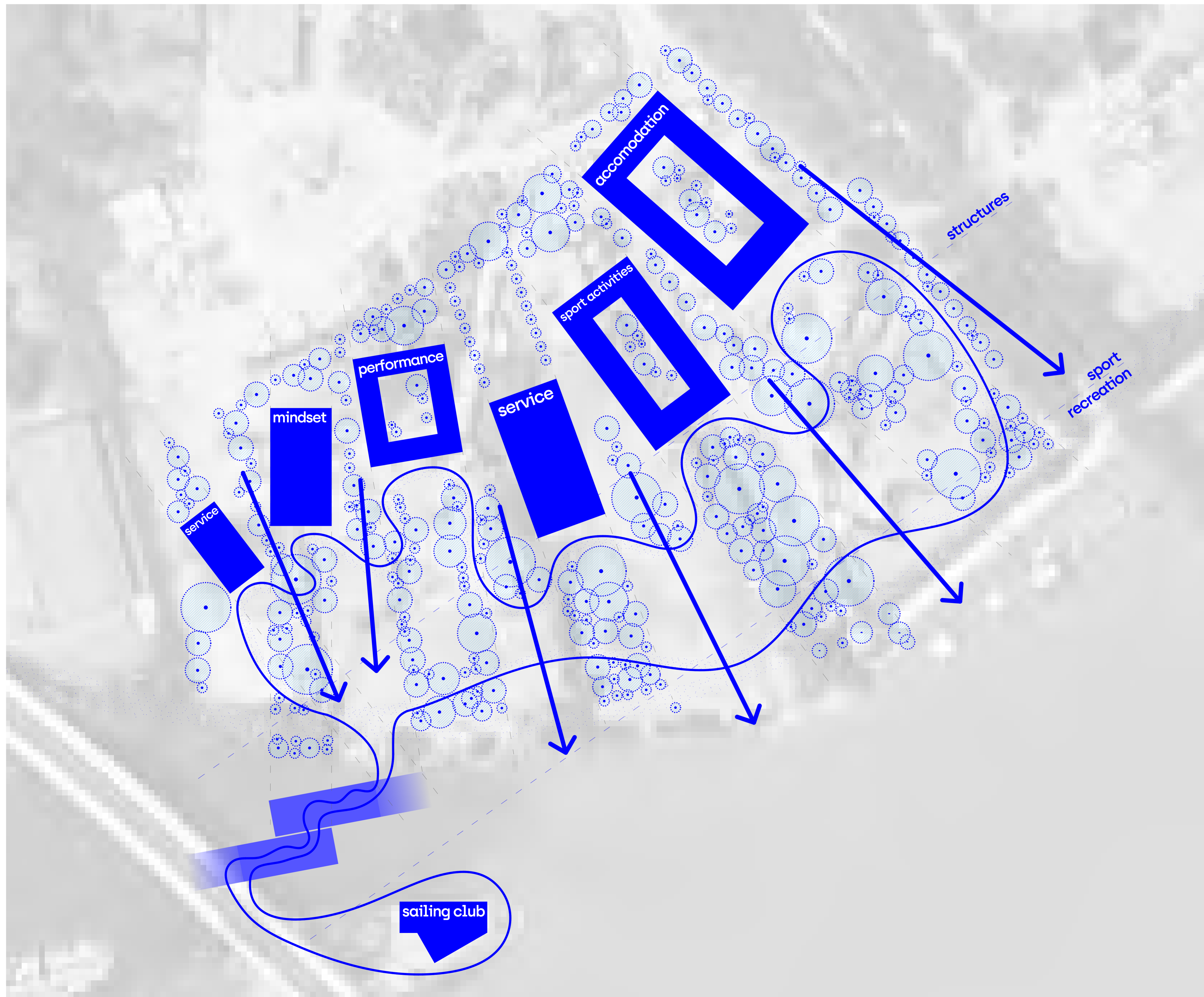
### **In a time of noise, we choose silence.**

### **In a time of acceleration, we choose duration.**

We do not offer an escape within the city,

but a rupture that has no desire to heal.

We create a place where we relearn how to be present.



MASTER PLAN -

**NEW SPACE IN THE CITY SURROUNDED BY FOREST IN FUTURE. THE FOREST FUNCTIONS AS A FILTER OF ACTIVITIES AND AIR, IMPROVING ECOLOGY. ACTIVITIES AS MICRO SEGMENTS. THE DESIGN BRINGS THE RIVERBANK CLOSER TO PEOPLE.**

## SPORTS AND RECREATION HUB

The concept of the sports and recreation hub emerged from an analysis of user movement within the space, with the primary idea being to organically connect the surrounding residential and commercial areas to the site through clearly defined pedestrian routes leading toward the Sava River.

In this way, the buildings are arranged to form a cohesive whole, resembling a block-like structure characteristic of brutalist architecture. By establishing several dominant axes oriented toward the Sava River, movement flows are directed and concentrated toward the sports facilities and the riverfront.

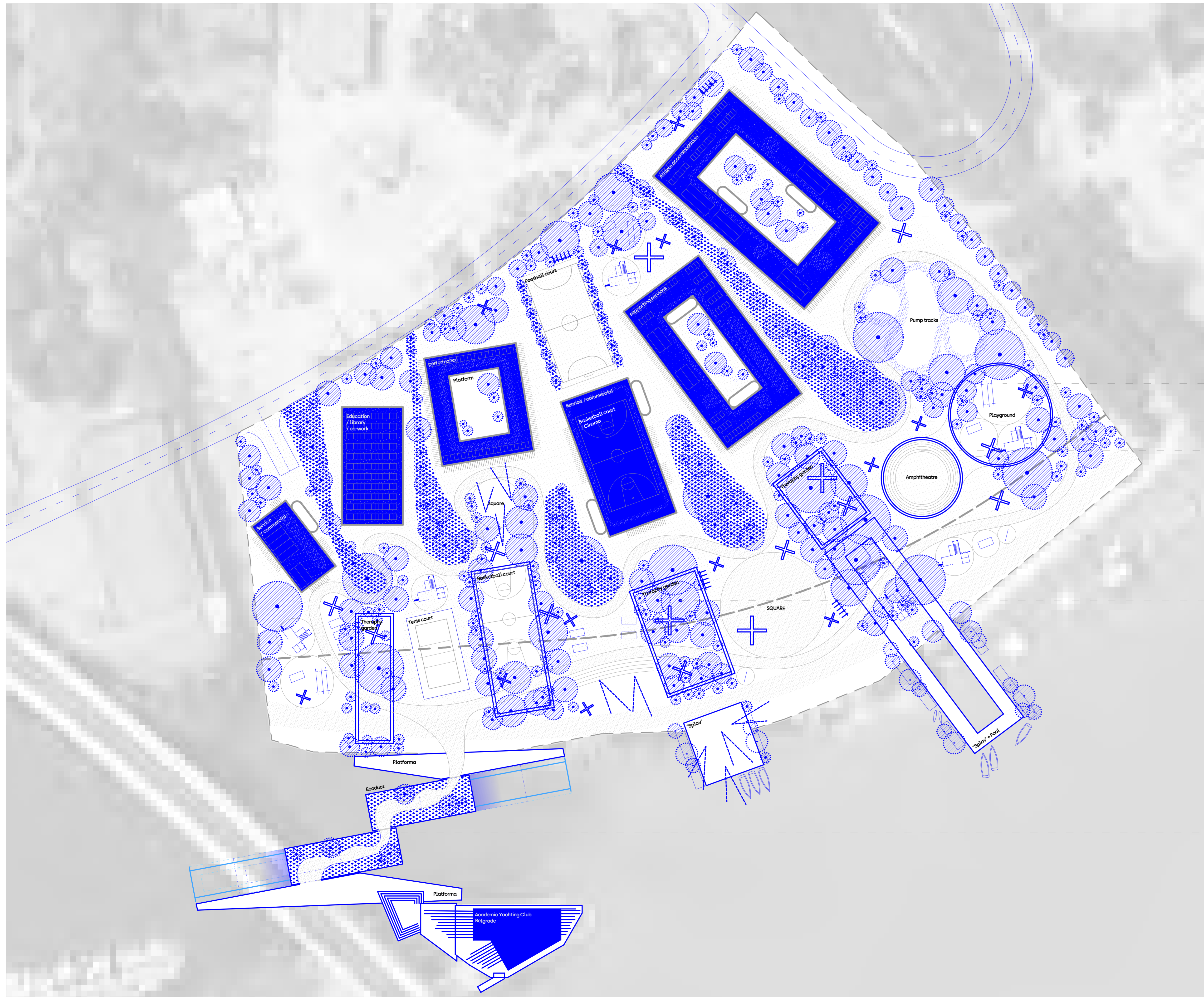
Special emphasis is placed on the creation of expansive green corridors that extend throughout the complex, integrating with the built structure and linking it into a unified landscape system. These green belts function as an extension of an urban park, creating an environment reminiscent of a city forest, with layered vegetation that enhances microclimatic conditions, strengthens visual identity, and improves overall user experience.

Greenery is conceived as a key organizational element, not only defining and separating functional zones but also guiding users toward the river, enabling a gradual transition from the built environment to the natural riverside landscape. In this way, a strong visual and functional connection is established between the urban fabric and the natural setting of the Sava River.

The buildings are designed according to the atrium principle, providing high-quality internal gardens and shared spaces that foster social interaction and user comfort.

The entire concept is unified through a fluid urban design gesture that shapes the ground plane and integrates diverse sports facilities into a cohesive, functional, and landscape-rich environment.

# MASTER PLAN - SPORTS AND RECREATION HUB - 1:500



**SOCIAL INTERACTION IN MICRO GARDEN. THERAPY.**

Atrium garden

Pump tracks

Playground

Open-air cinema / court

Outdoor stage

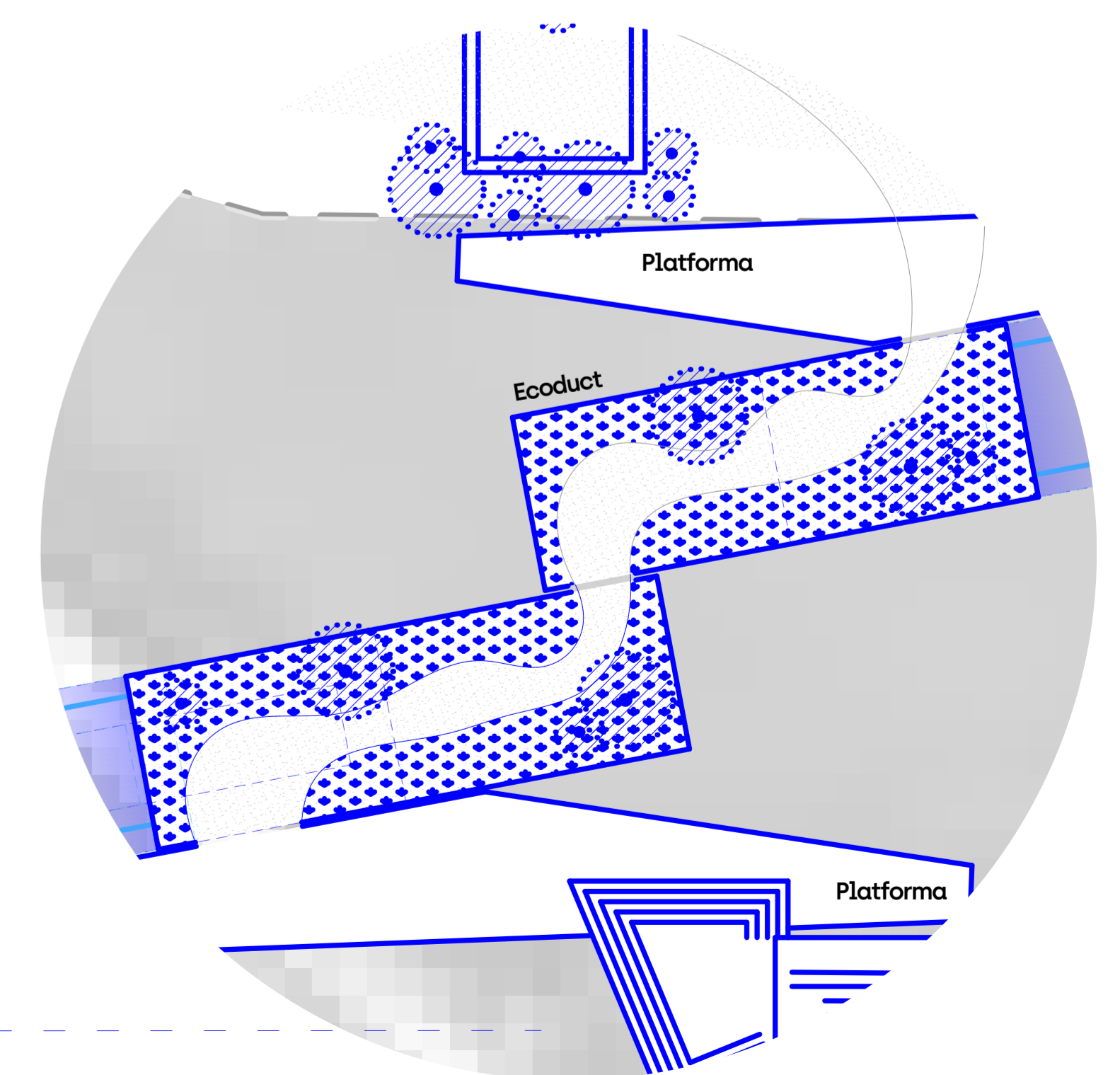
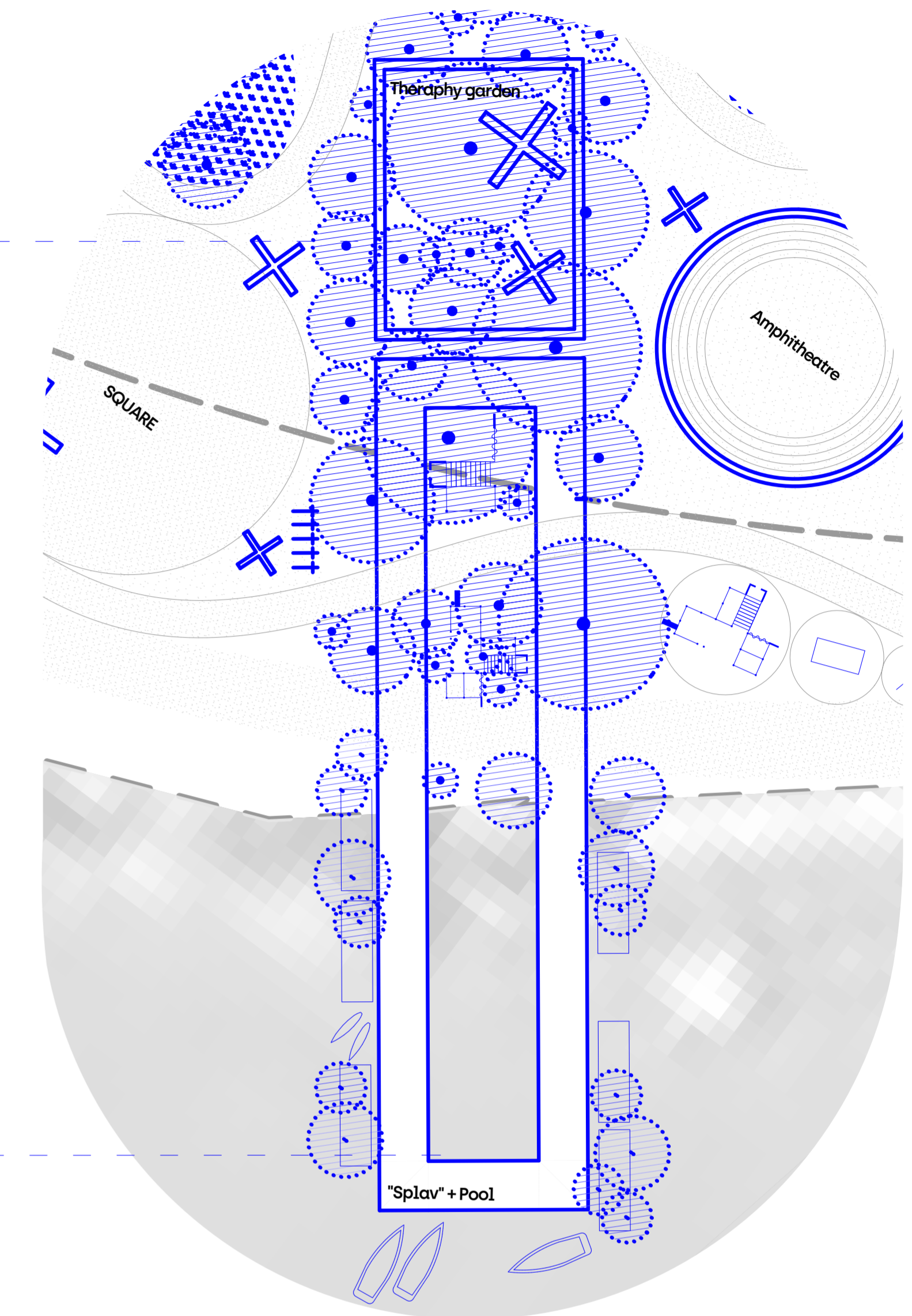
**RIVER INTERACTION. POOL IN NATURE.**

Garden meditation

Public gathering

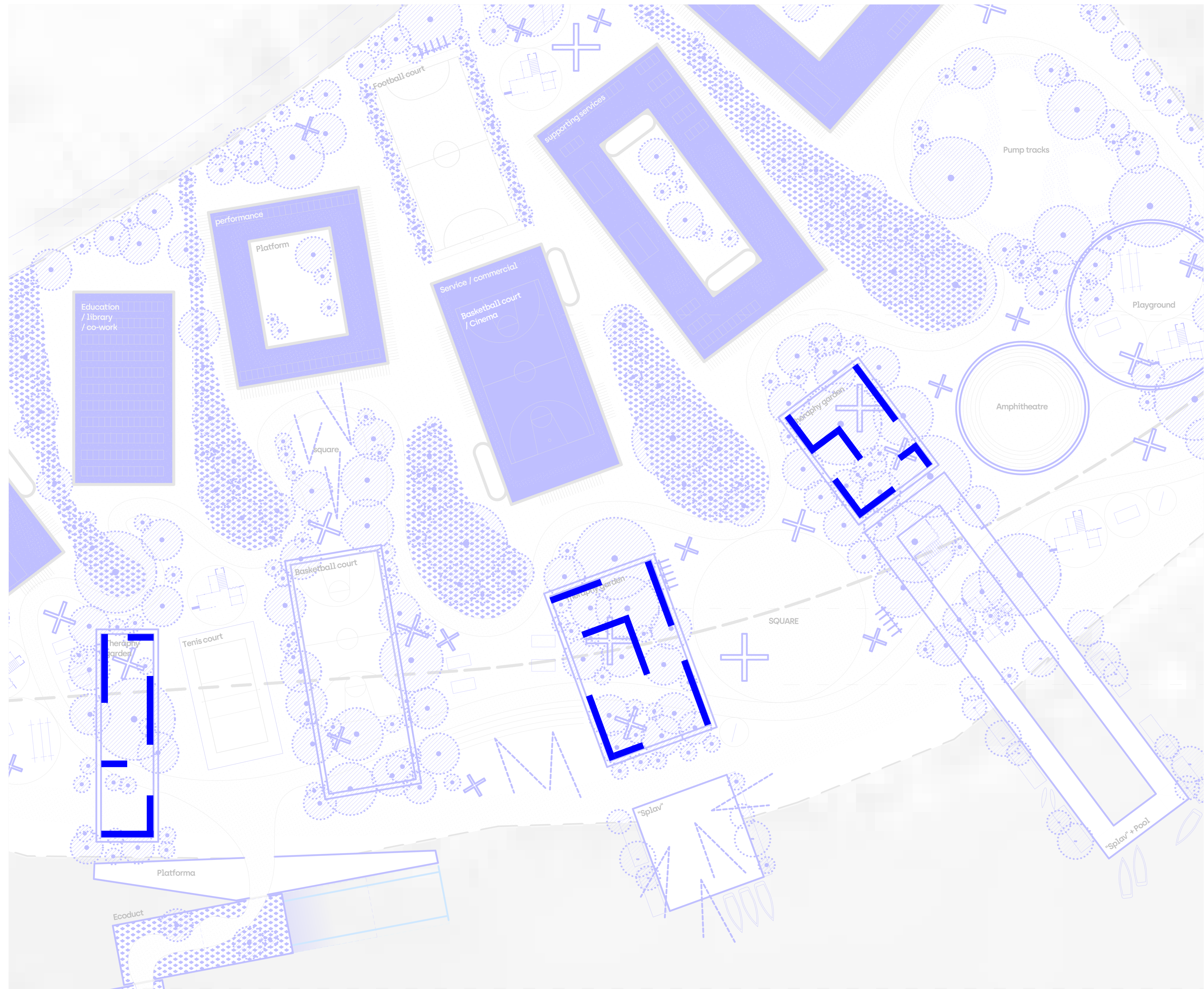
Connection

**CONNECTION. MOVABLE STRUCTURE. PLATFORM.**



CEMENT FACTORY

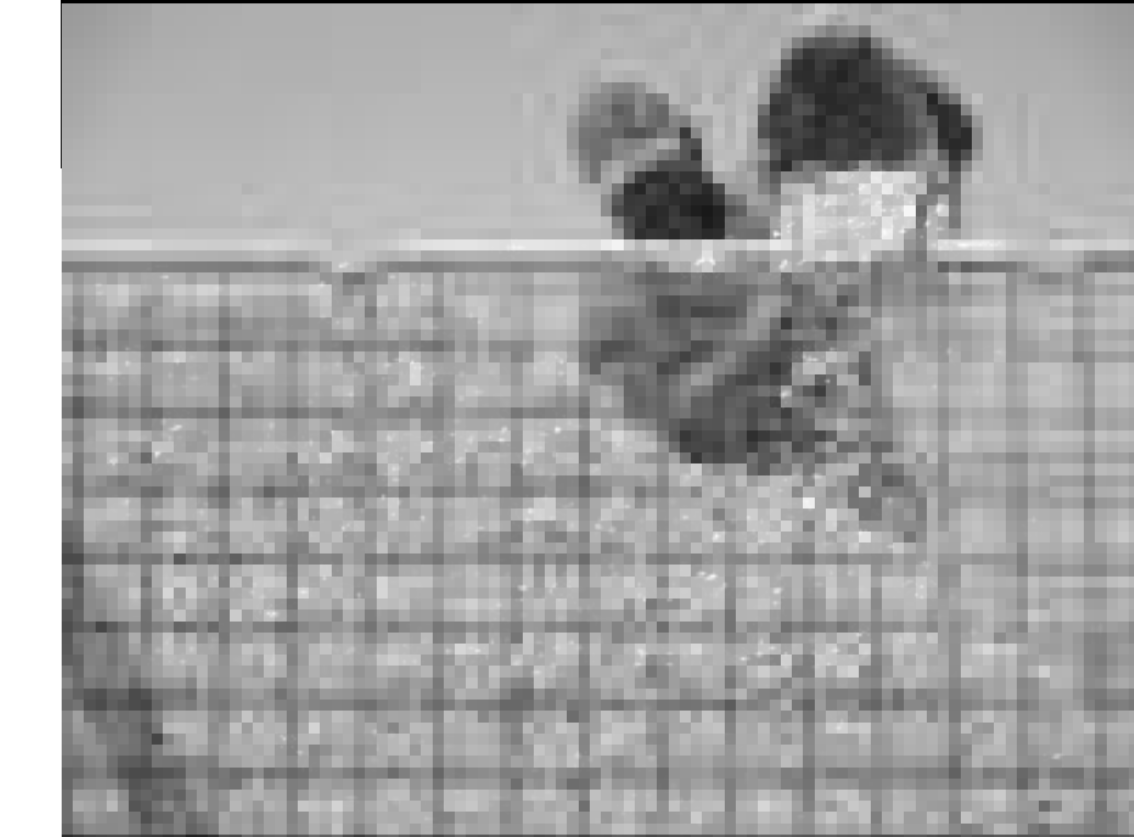
REUSE CONCEPT



REUSE

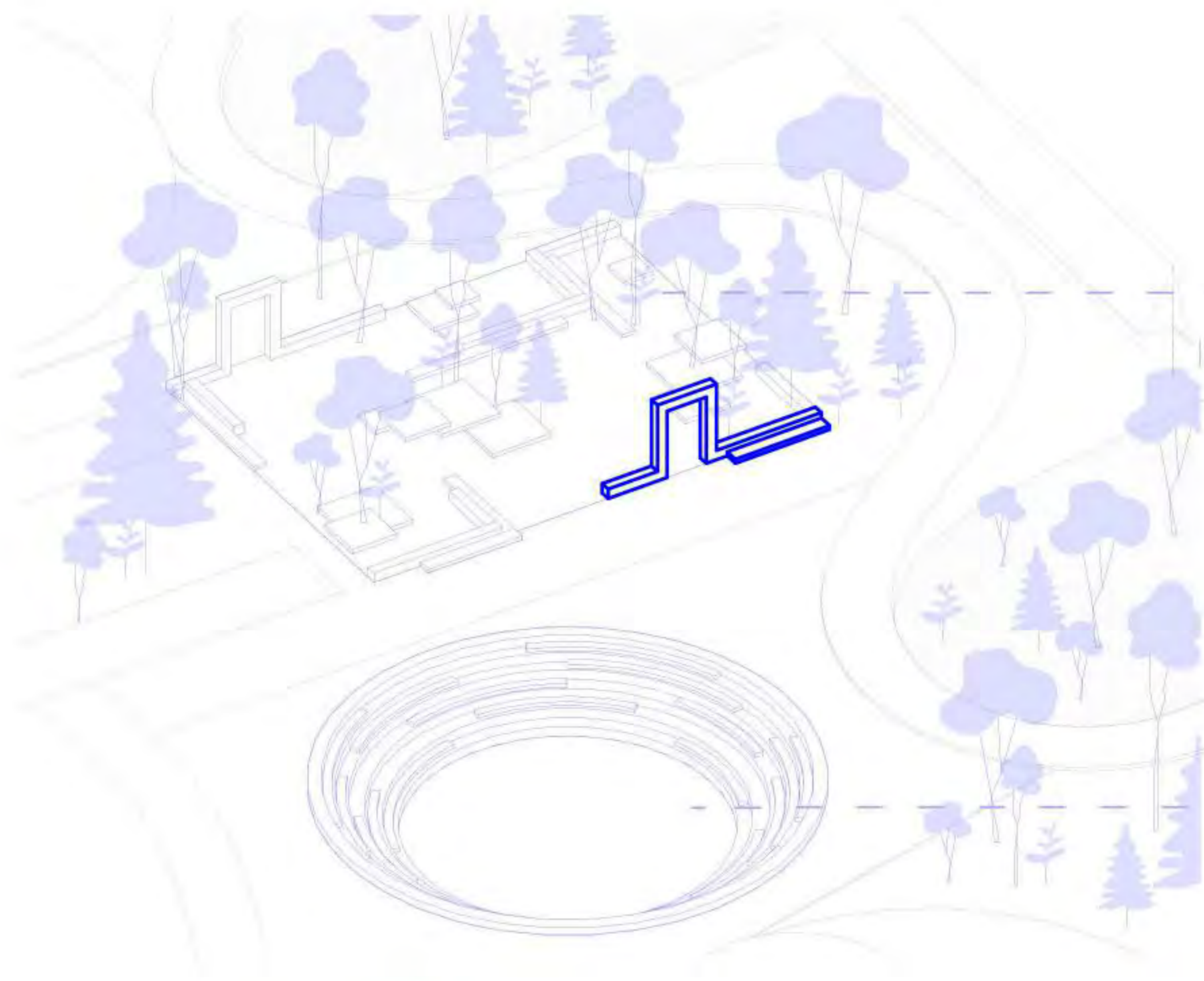
RUBBLE

TRANSFORM



The project reuses construction waste and rubble remaining from the former cement factory as a primary material for gabion landscape furniture integrated throughout the therapeutic gardens. Instead of removing and discarding the debris, the proposal transforms the site's industrial remains into functional and tactile architectural elements such as seating, retaining structures, and spatial boundaries.

This approach emphasizes the ecological importance of material reuse and circular design, reducing waste while preserving the memory of the site. Through the adaptive transformation of discarded materials, the project redefines industrial residue as a resource, turning a symbol of environmental degradation into an active component of ecological regeneration and public experience.

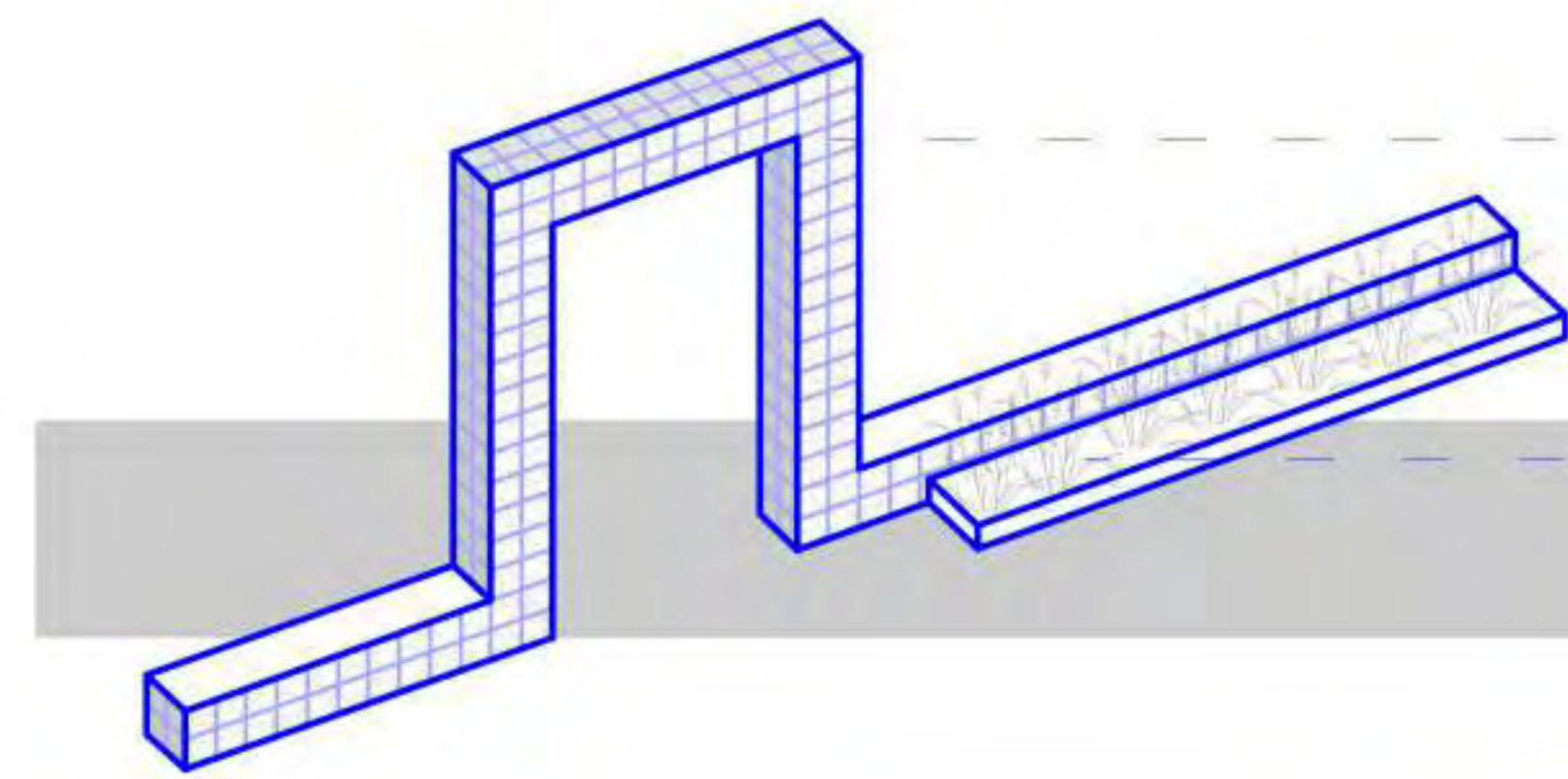


**THERAPY GARDEN SEGMENT**

**AMPHYTHEATRE SEGMENT**

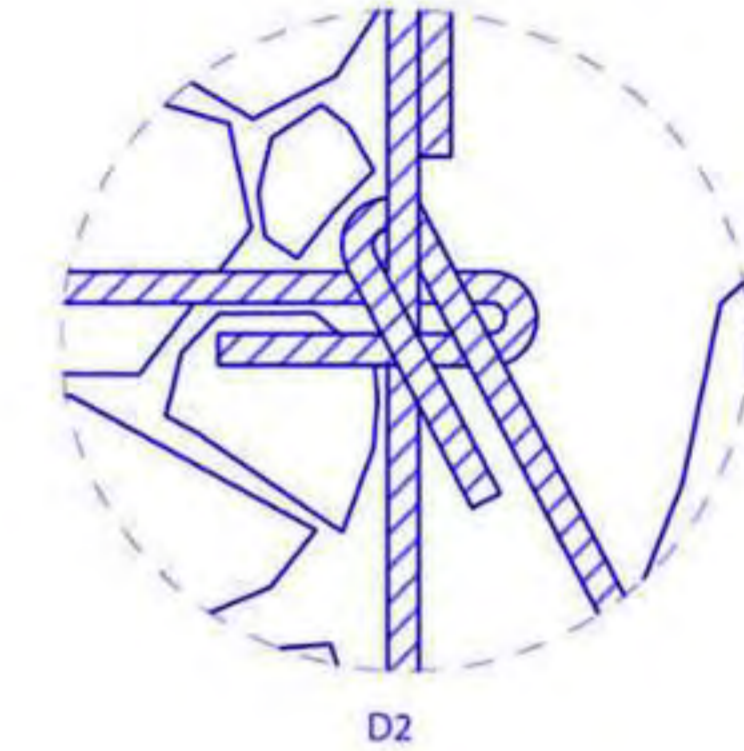
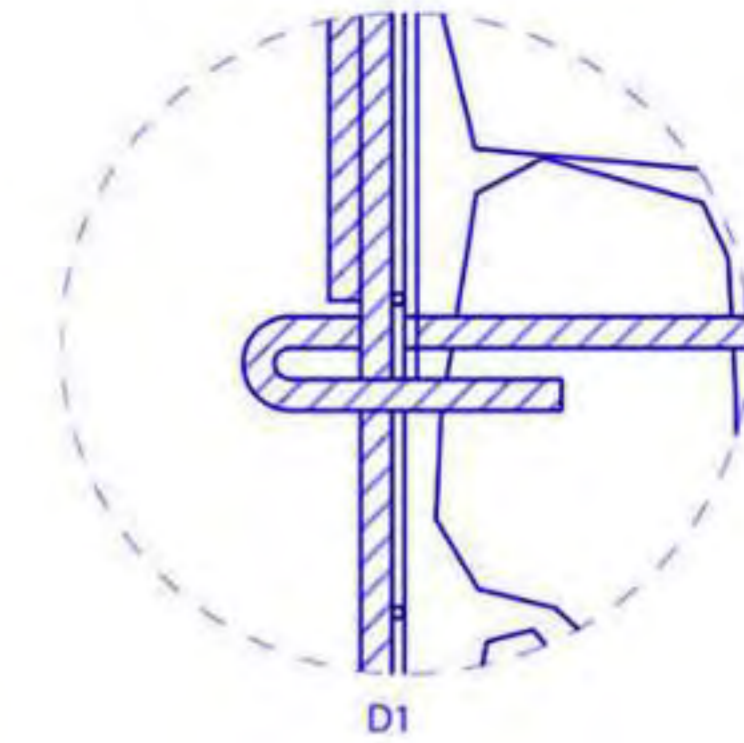
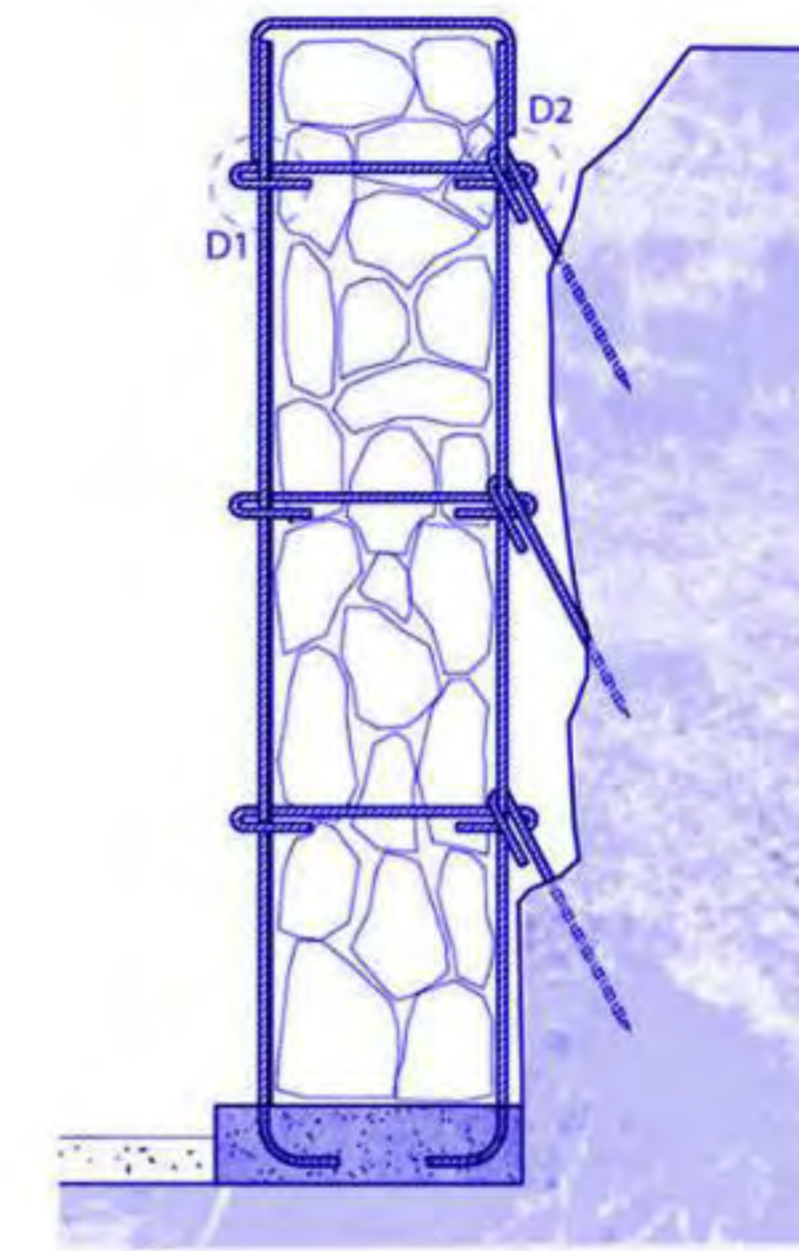
**GABBION BOX**

**FLOWER POTS**



**SEGMENT**

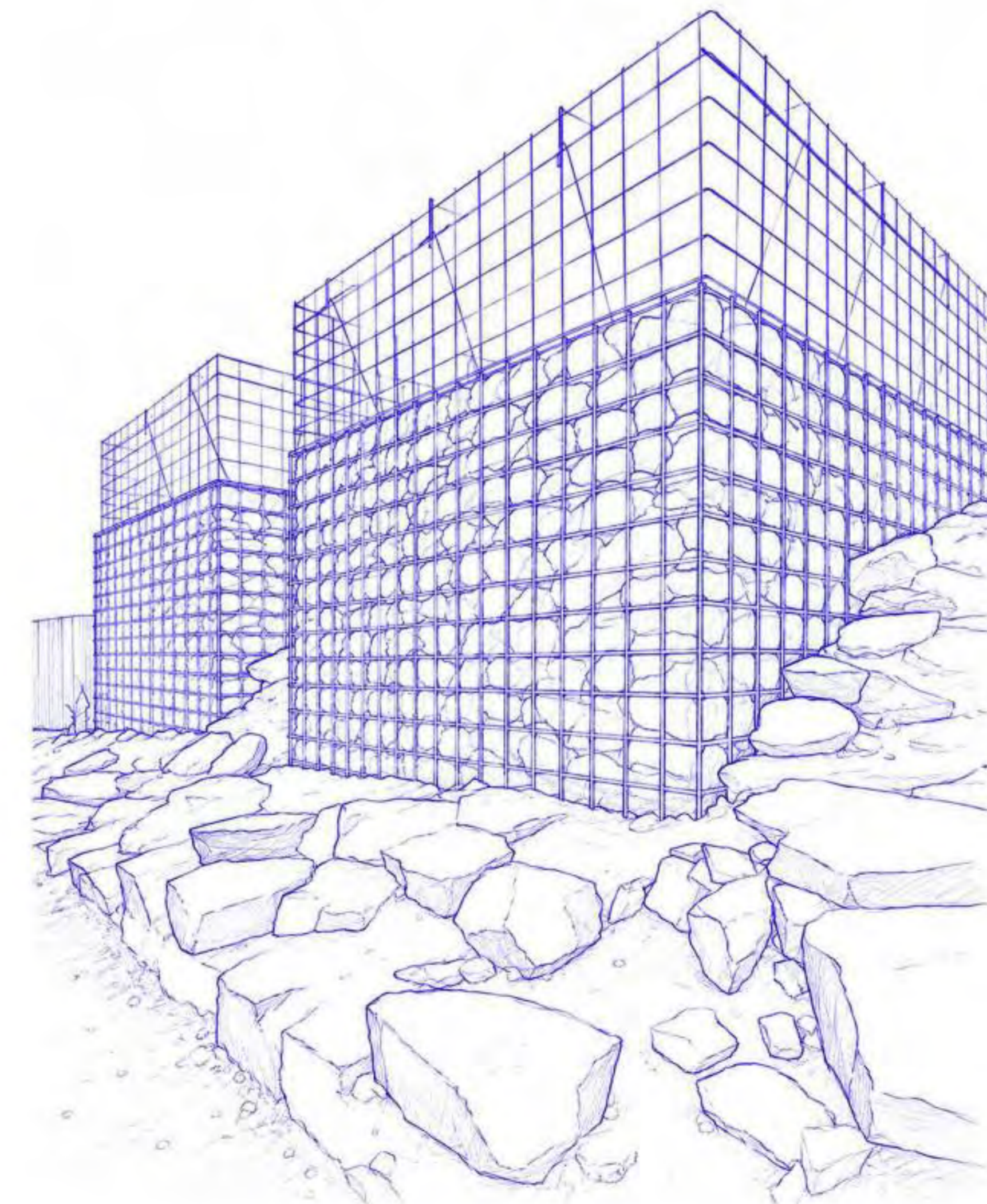
**THERAPY GARDEN**



Within the project, vegetation is used as an active therapeutic and ecological element rather than decoration. Aromatic and medicinal plants such as Lavender, Thyme, Sage, Lemon Balm, and Mint create a multisensory landscape through scent, texture, and seasonal change, encouraging relaxation and conscious interaction with space.

Native species including Yarrow, St. John's Wort, and wildflower meadows support biodiversity by attracting pollinators, birds, and insects, helping restore local ecosystems along the riverfront.

Together, these plants create a living landscape that reconnects users with nature through movement, touch, and sensory experience, offering a contrast to the fast-paced and technology-driven conditions of contemporary urban life.



**LAVANDER**



**THYME**



**SAGE**



**LEMON BALM**



**MINT**



**YARROW**

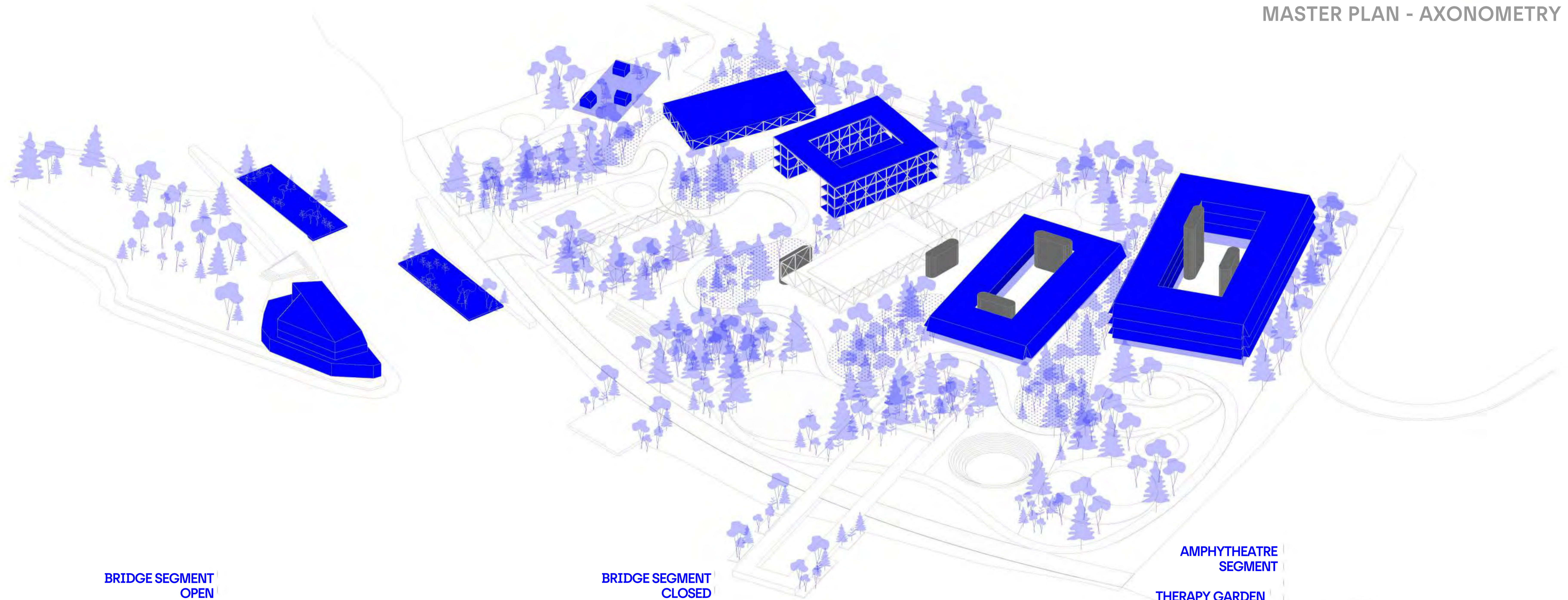


**ST. JOHN'S WORT**

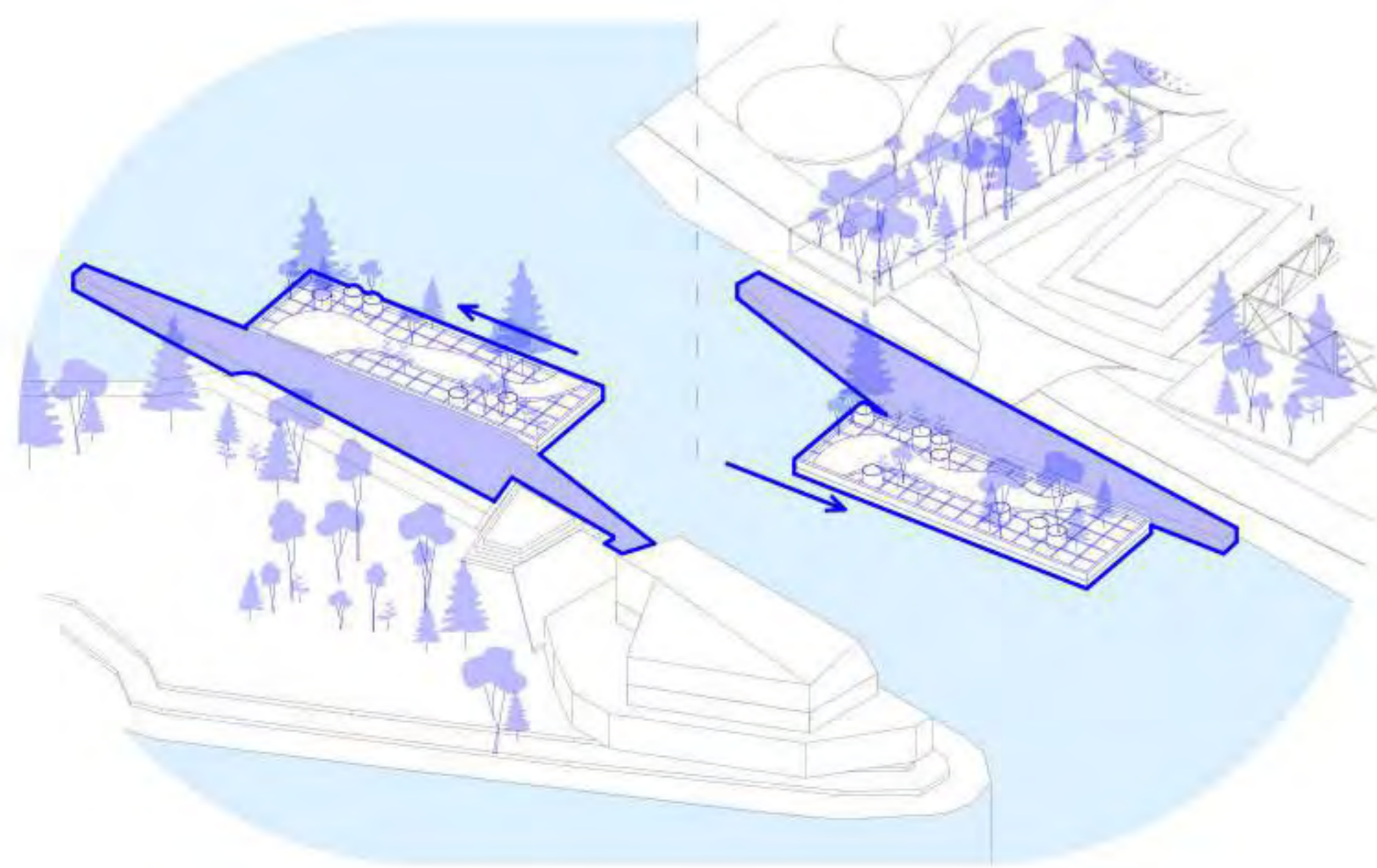


**WILDFLOWER MEADOWS**

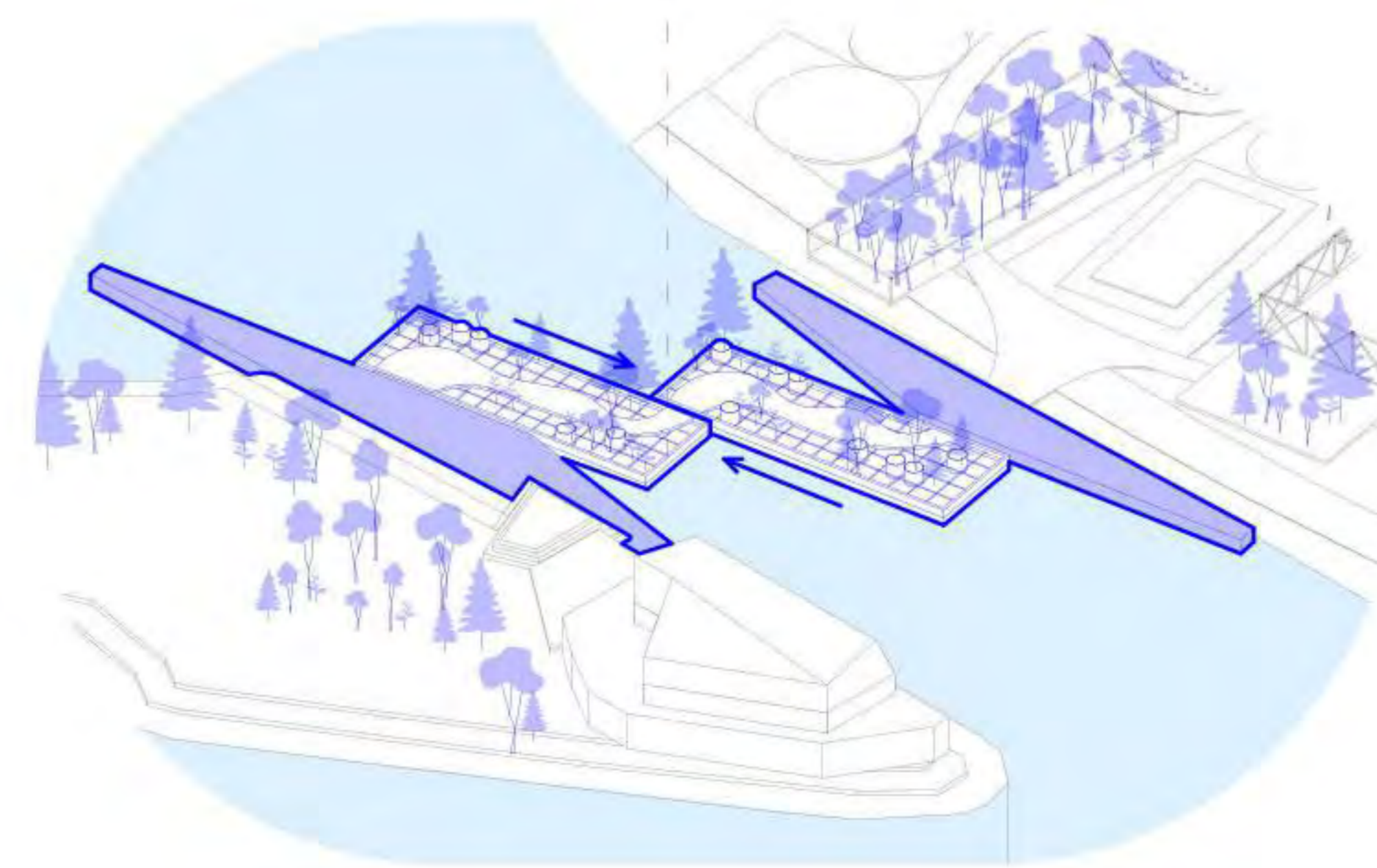
# MASTER PLAN - AXONOMETRY



BRIDGE SEGMENT  
OPEN



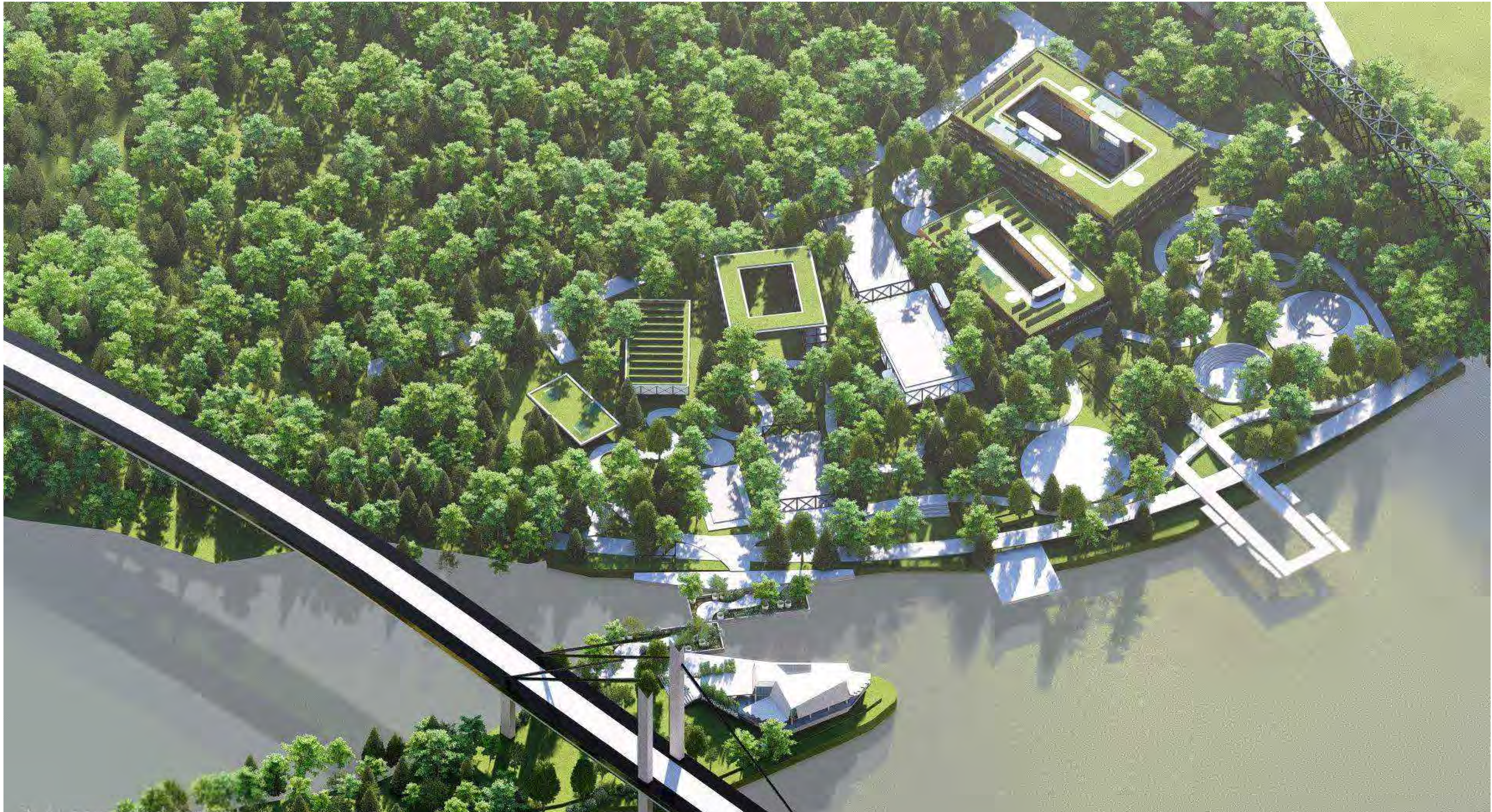
BRIDGE SEGMENT  
CLOSED



AMPHYTHEATRE  
SEGMENT

THERAPY GARDEN  
SEGMENT

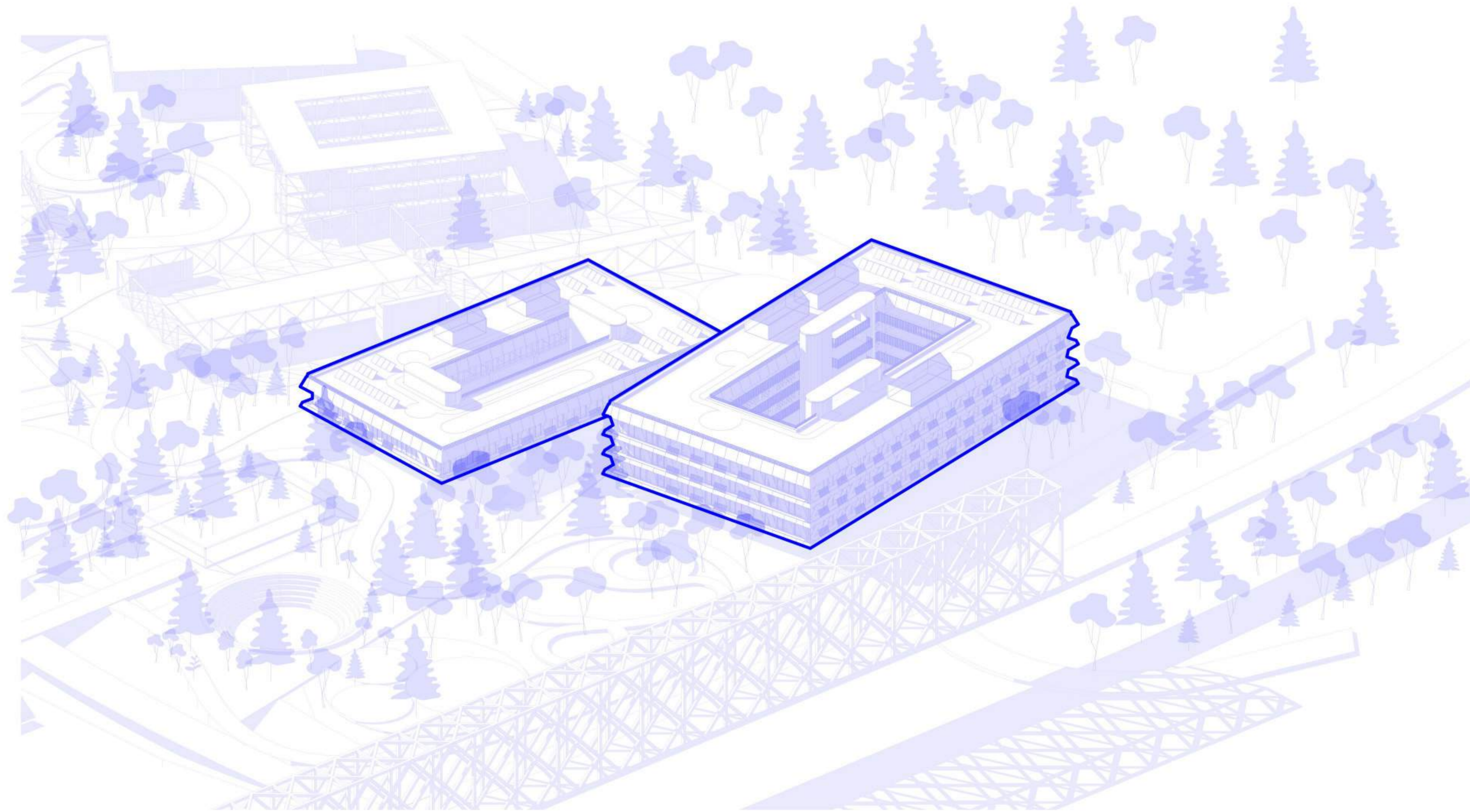




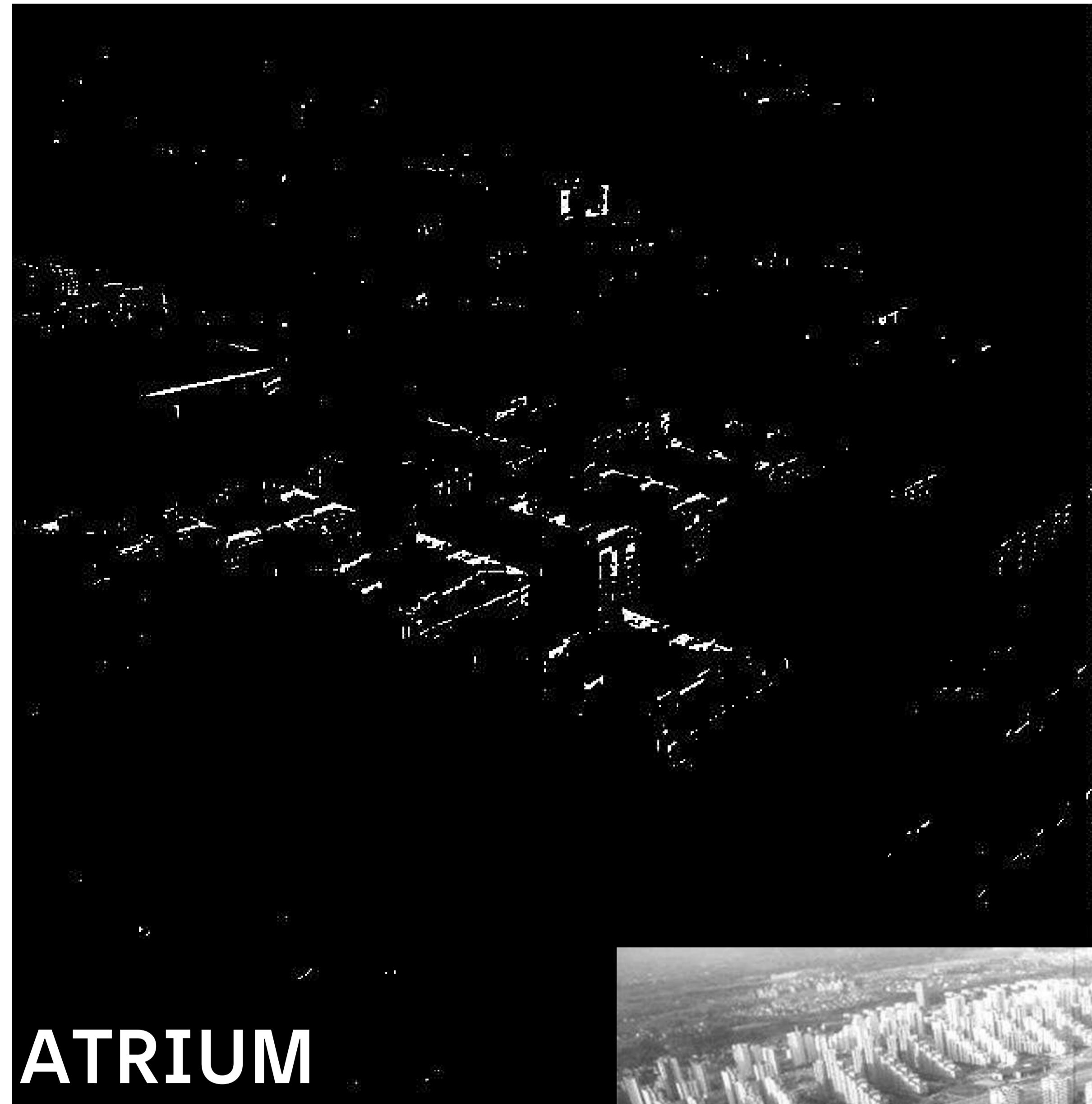








**NEW CONSTRUCTION - ATHLETE ACCOMODATION WITH SUPPORTING SERVICES**



**ATRIUM**



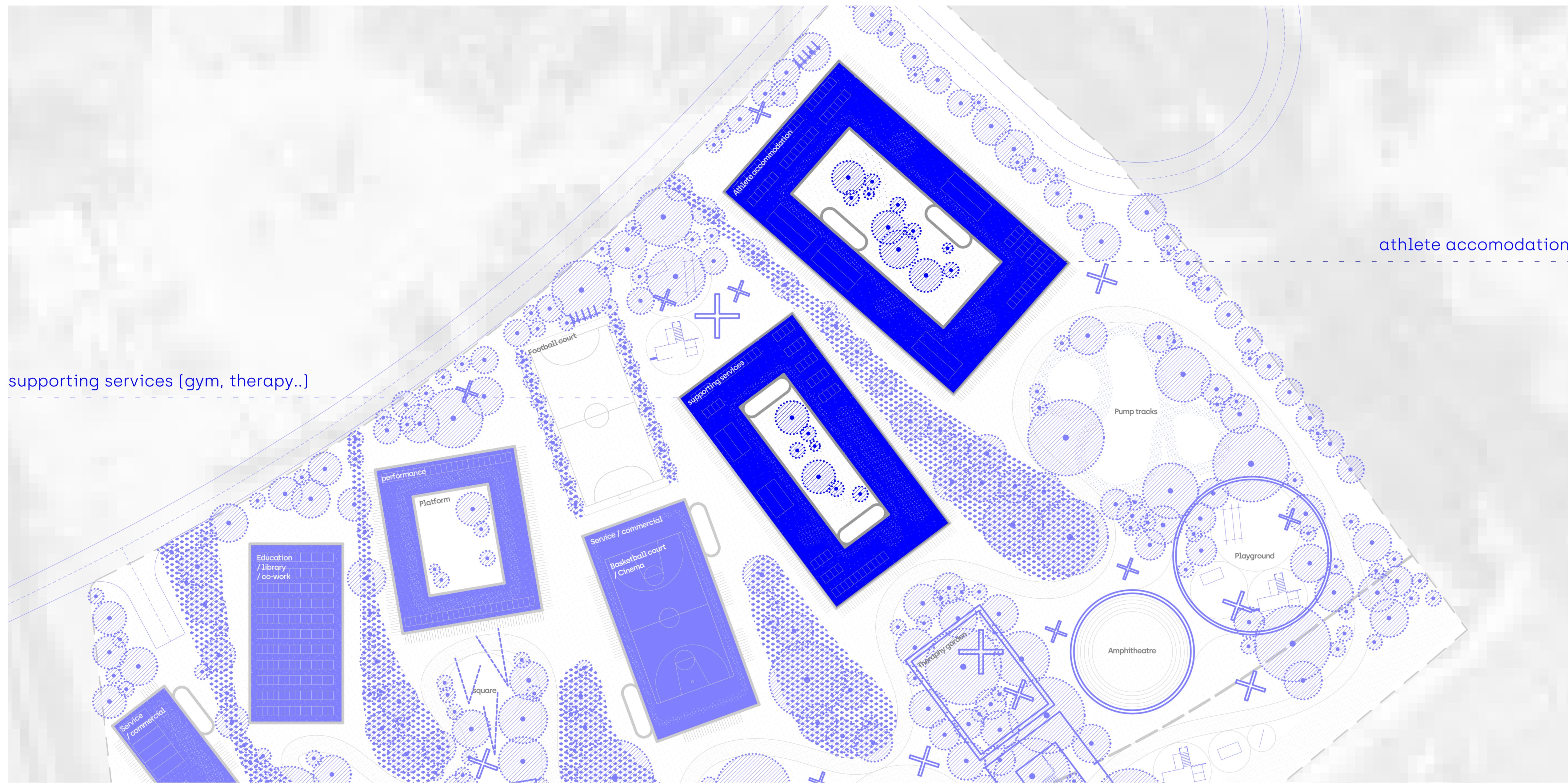
**COMMUNITY**



**UNITS**



**GARDEN**



## ZONE A

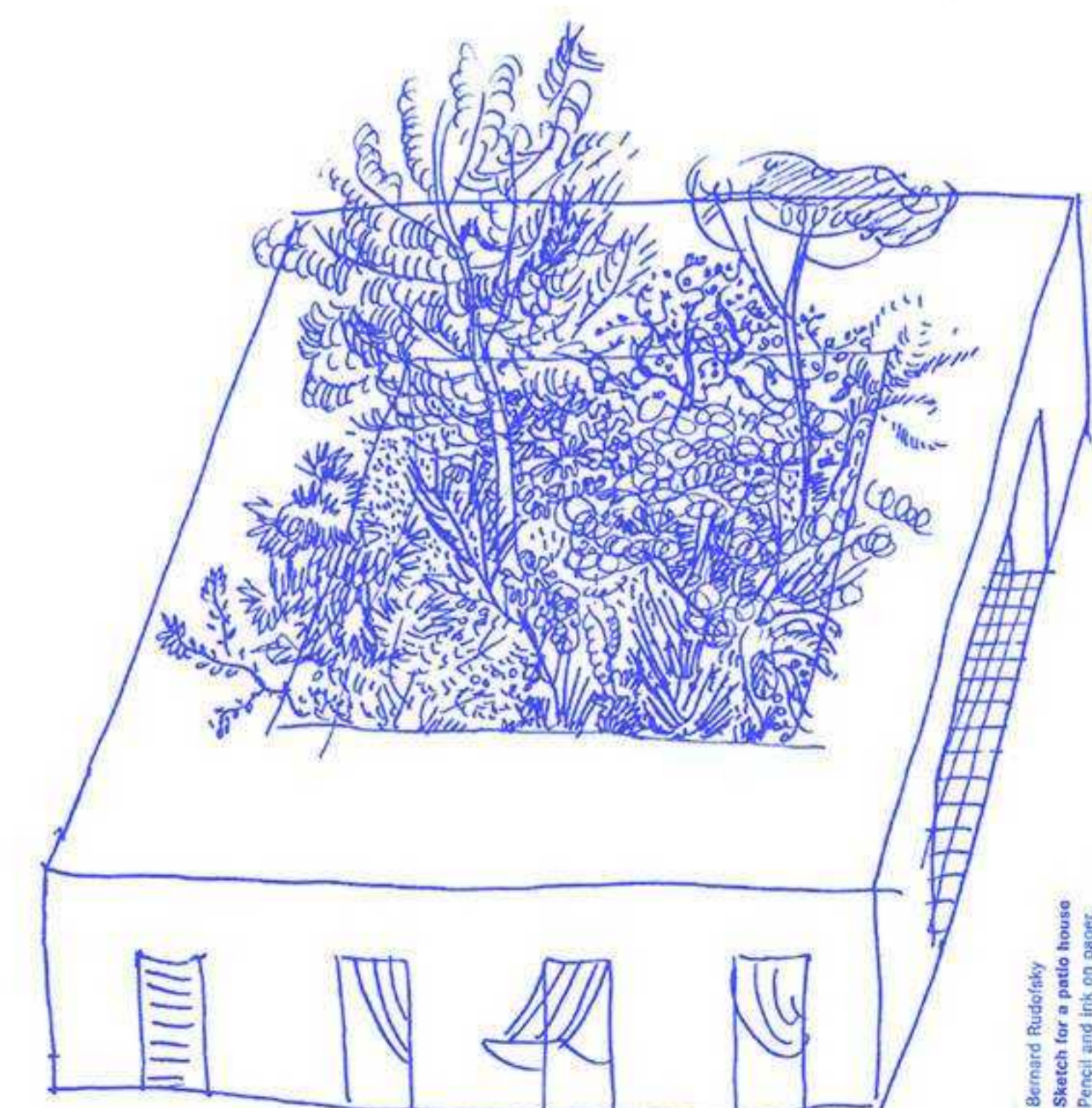
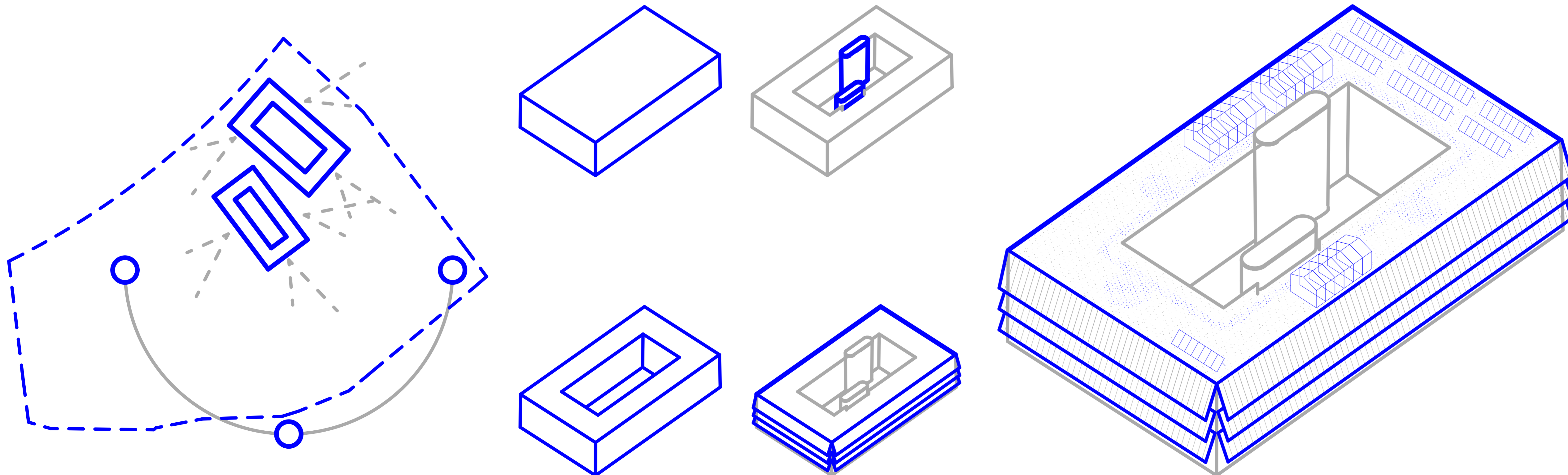
**A SPACE OF COMMUNITY.  
A PATIO HOUSE.  
AN OPEN, FLEXIBLE, AND ADAPTABLE ENVIROMENT WITH THE POTENTIAL FOR EXSTENSION.  
A VEGETATIVE FACADE DEFINES THE BUILDING, WHILE THE ATRIUM ACTS AS A GARDEN AND A PLACE FOR GATHERING.  
A PRIMITIVE FACADE SYSTEM, COMBINED WITH MINIMALIST ARCHITECTURE, ENABLES SPATIAL FLEXIBILITY.**

## NEW CONSTRUCTION

The concept of the athletic accommodation is based on the creation of an atrium-type unit, ensuring maximum sunlight exposure and providing a private courtyard for users' relaxation. The idea was to develop a building with a lightweight prefabricated structure and a clear plan, allowing for spatial flexibility. Circulation is positioned within the atrium, preserving a clean spatial scheme with the potential for multiplication and extension. Due to the modular system, the layout remains adaptable, with modules accommodating housing units, shared spaces, and dining areas on each floor.

The building is characterized by a façade system similar to that used on the yacht club, consisting of panels or screens that can be easily adjusted. These elements act as a simple, almost primitive form of sun protection. Within the buffer zone between the inner glass layer and the outer screen layer, a layer of greenery is introduced, creating a vegetative façade.

The concept results in two buildings: one that concentrates accommodation together with a canteen, and another that contains supporting facilities. Their placement is designed to ensure optimal sunlight exposure

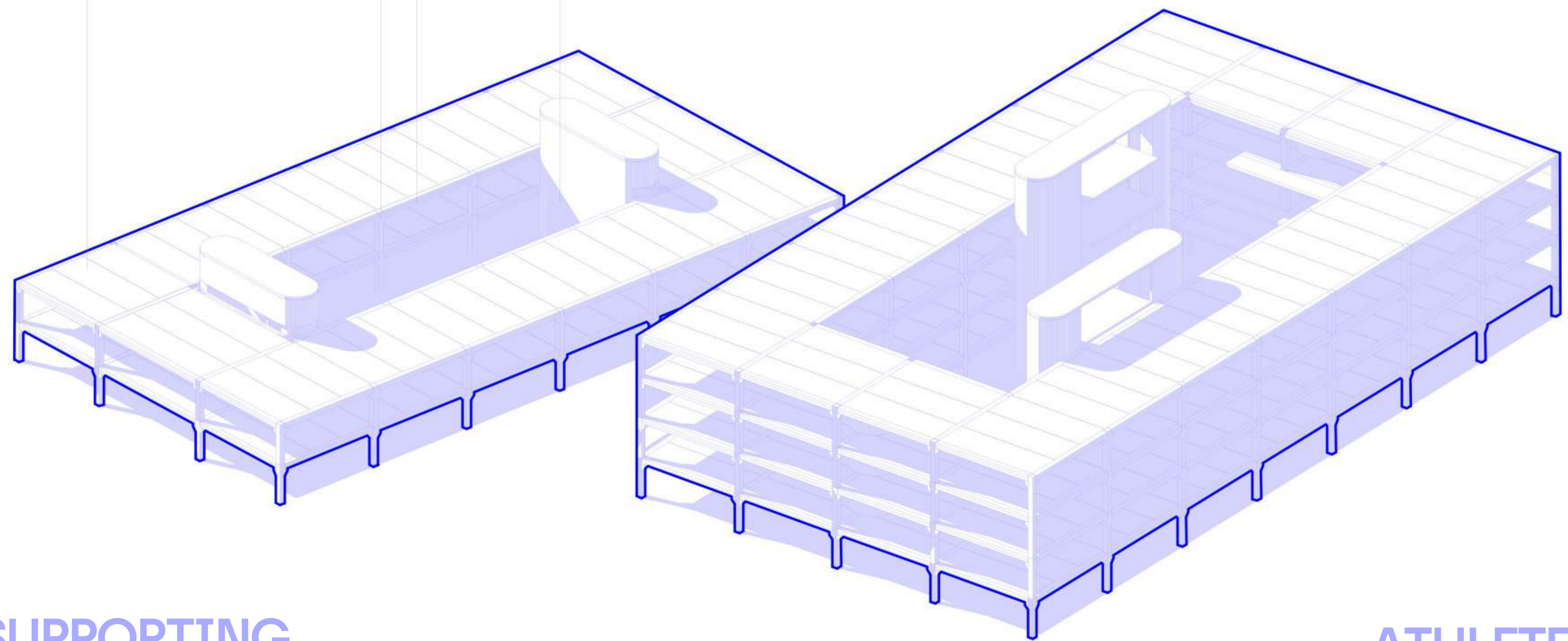


HOLLOW - CORE SLABS

PREFABRICATED CONCRETE PILLARS

PREFABRICATED CONCRETE BEAMS

CONCRETE CORE



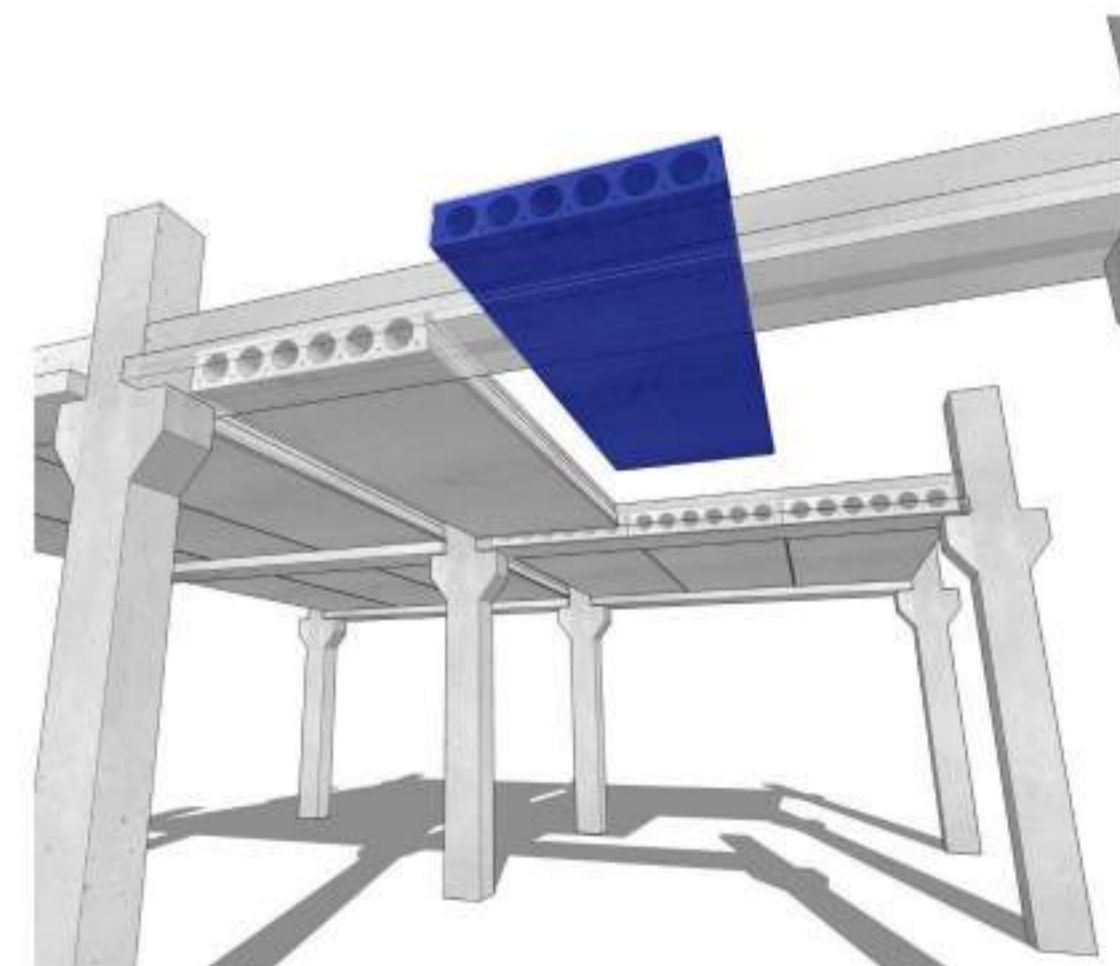
SUPPORTING SERVICES

ATHLETE ACCOMODATION

ZONE A

THE INSPIRATION FOR THE NEW STRUCTURE ORIGINATED FROM THE CONSTRUCTION SYSTEM USED FOR THE YACHT CLUB. THE STRUCTURAL SYSTEM IS REDUCED TO MODULARITY, CREATING A FLEXIBLE FRAMEWORK WITH THE POSSIBILITY FOR UPGRADES AND FUNCTIONAL TRANSFORMATIONS WITHIN THE SPACE.

NEW CONSTRUCTION



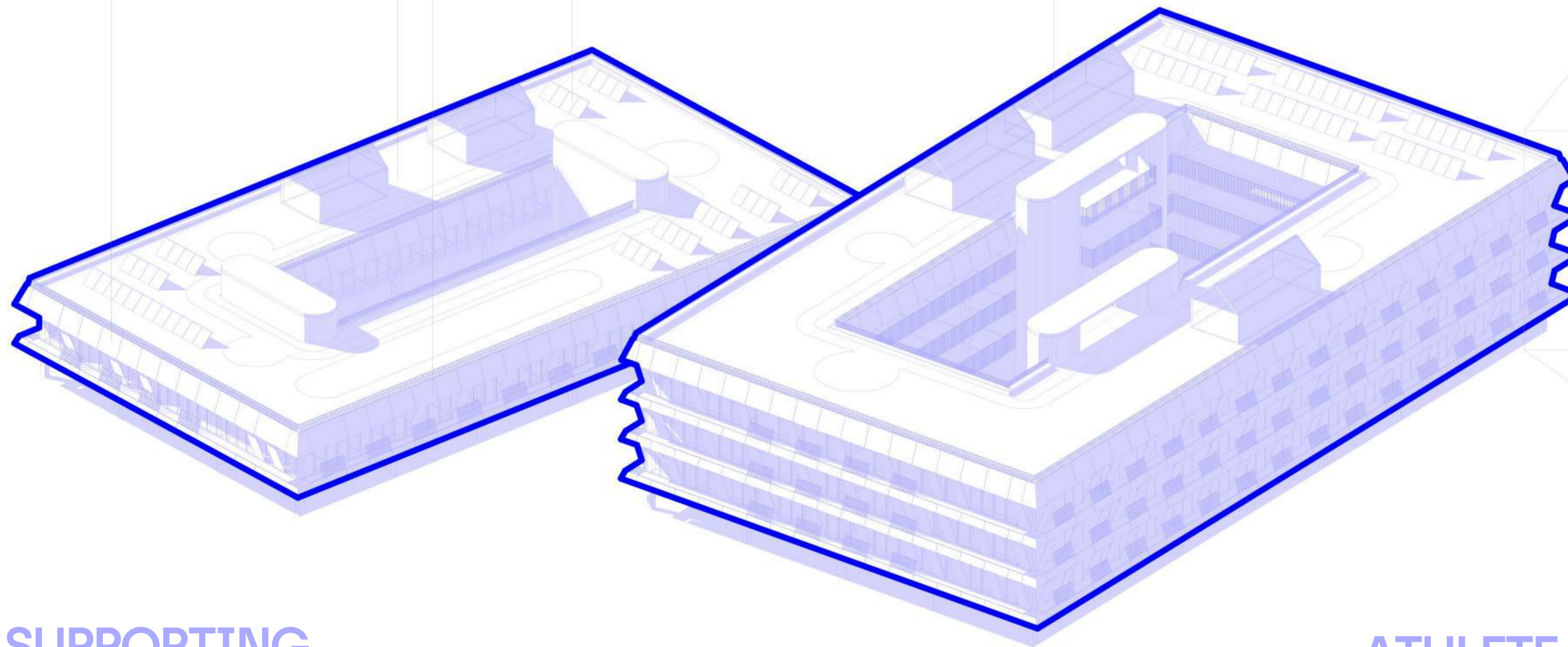
# Building Integrated Photovoltaics (BIPV)

Intensive roof garden

Vegetative facade

Photovoltaics on the roof

Urban agriculture



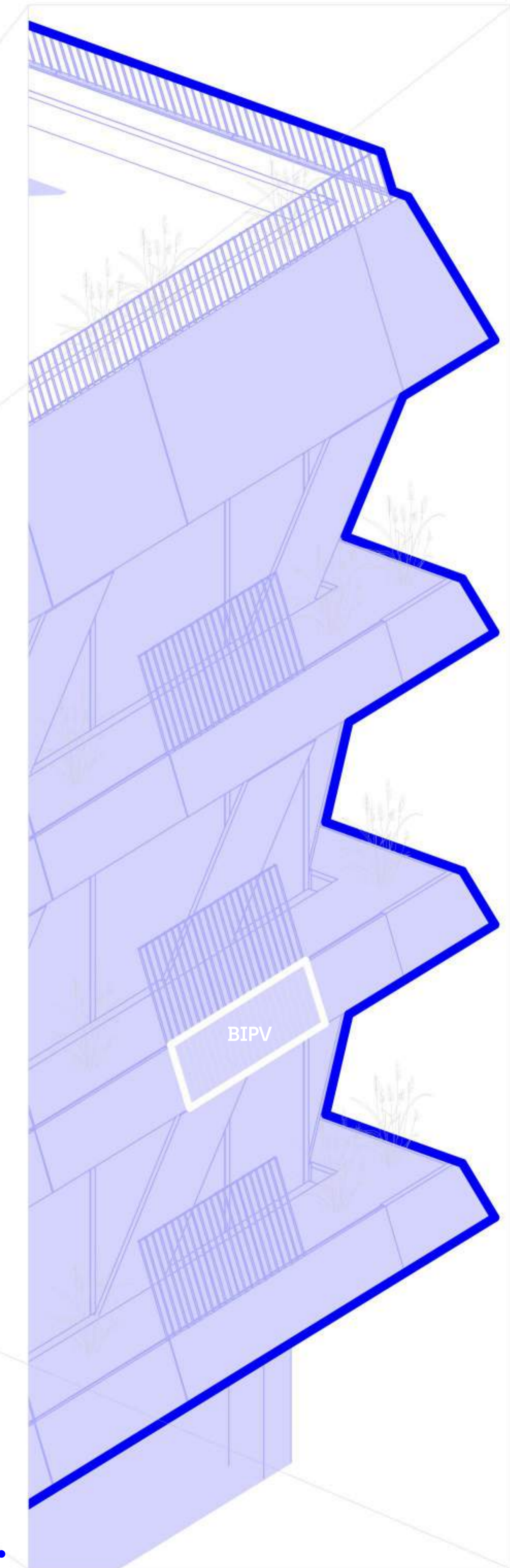
SUPPORTING SERVICES

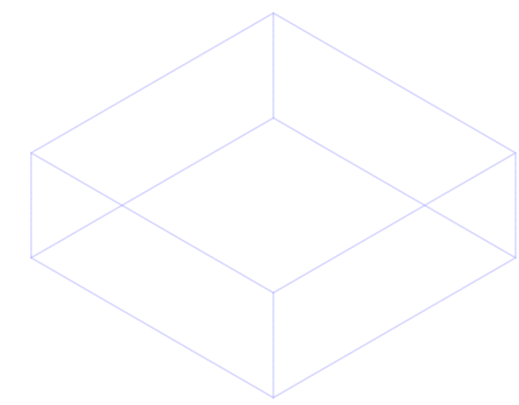
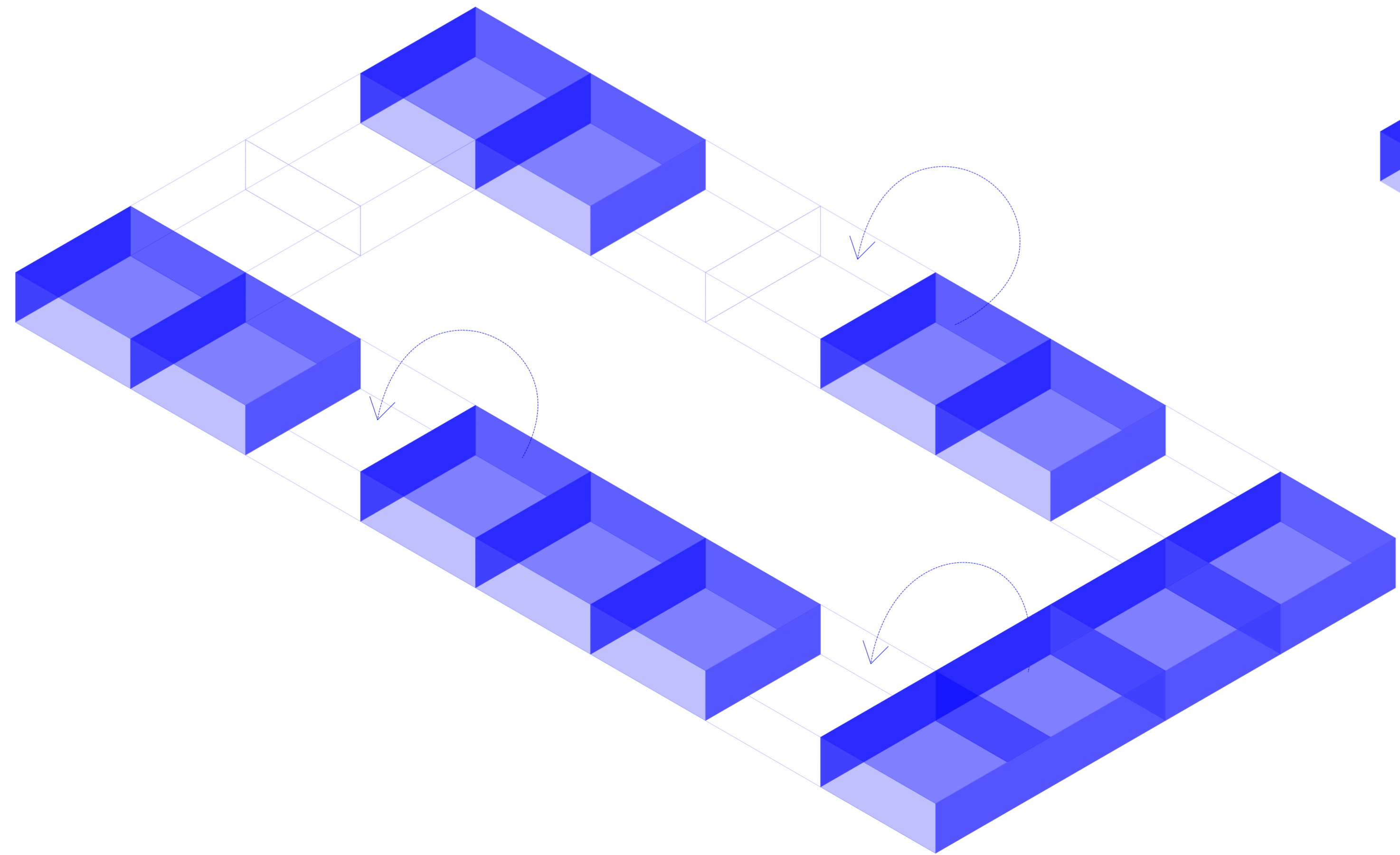
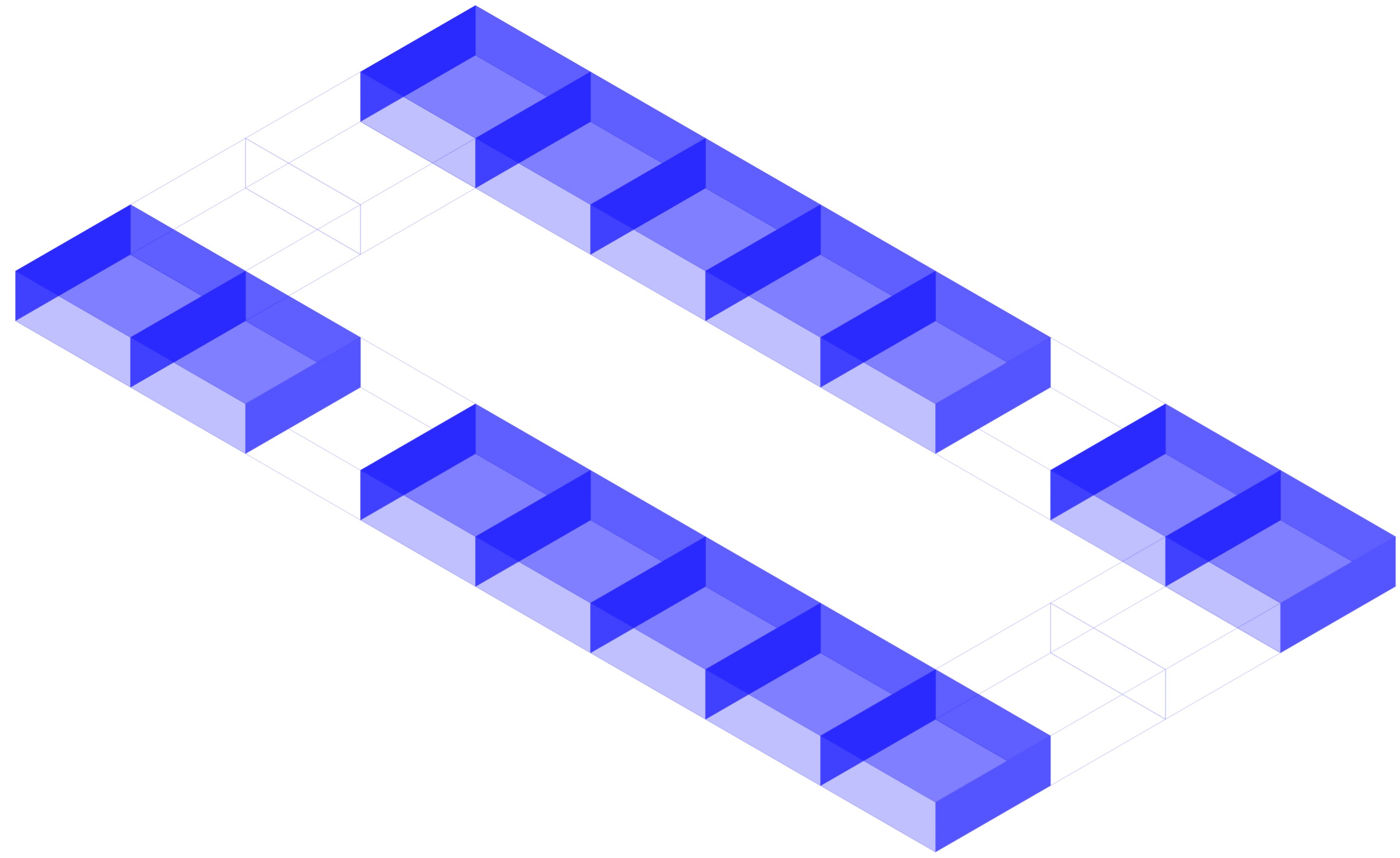
ATHLETE ACCOMODATION

ZONE A

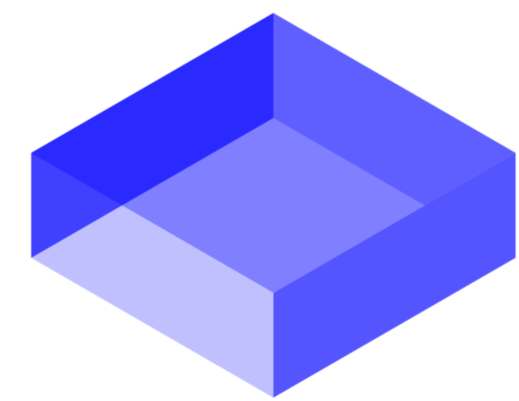
NEW CONSTRUCTION

THE BUILDING FUNCTIONS AS AN INTEGRATED SYSTEM THAT UTILIZES NATURAL RESOURCES ACROSS ALL SURFACES. THE FACADE OPERATES AS A VEGETATIVE ENVELOPE WHILE SIMULTANEOUSLY COLLECTING SOLAR ENERGY. INTENSIVE GREEN ROOFS ENHANCE USER COMFORT, WHILE SOUTH-ORIENTED PHOTOVOLTAIC PANELS ON THE ROOF GENERATE RENEWABLE ENERGY.



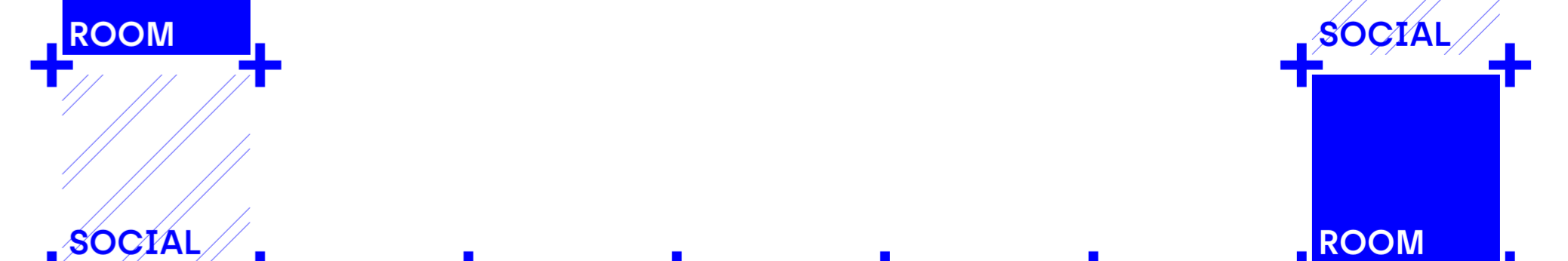
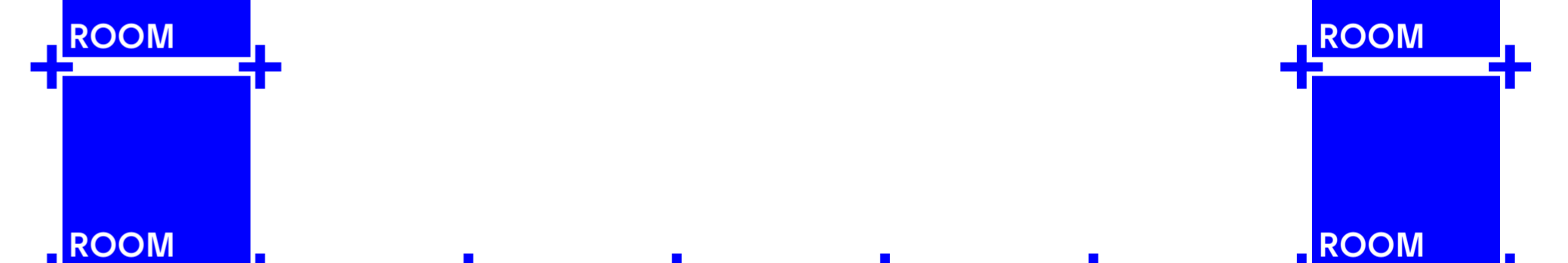
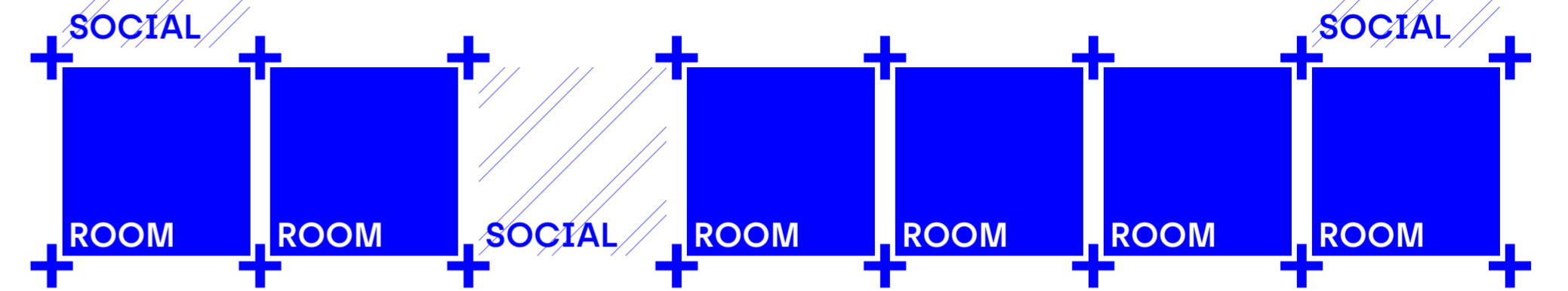
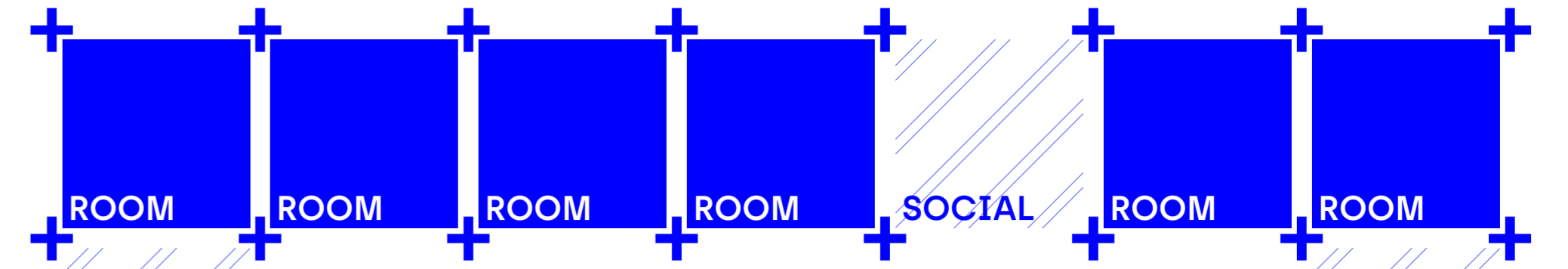


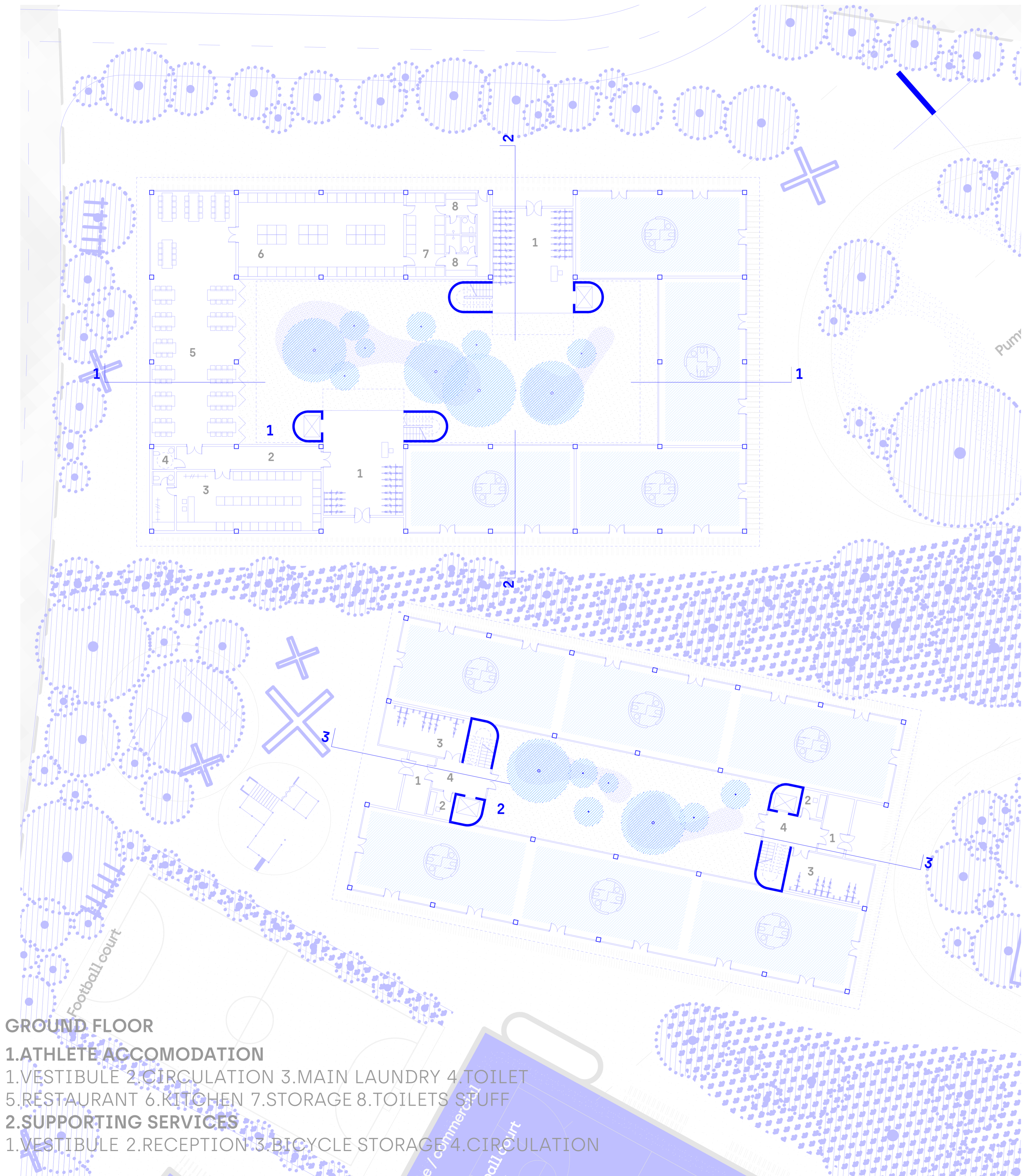
PUBLIC



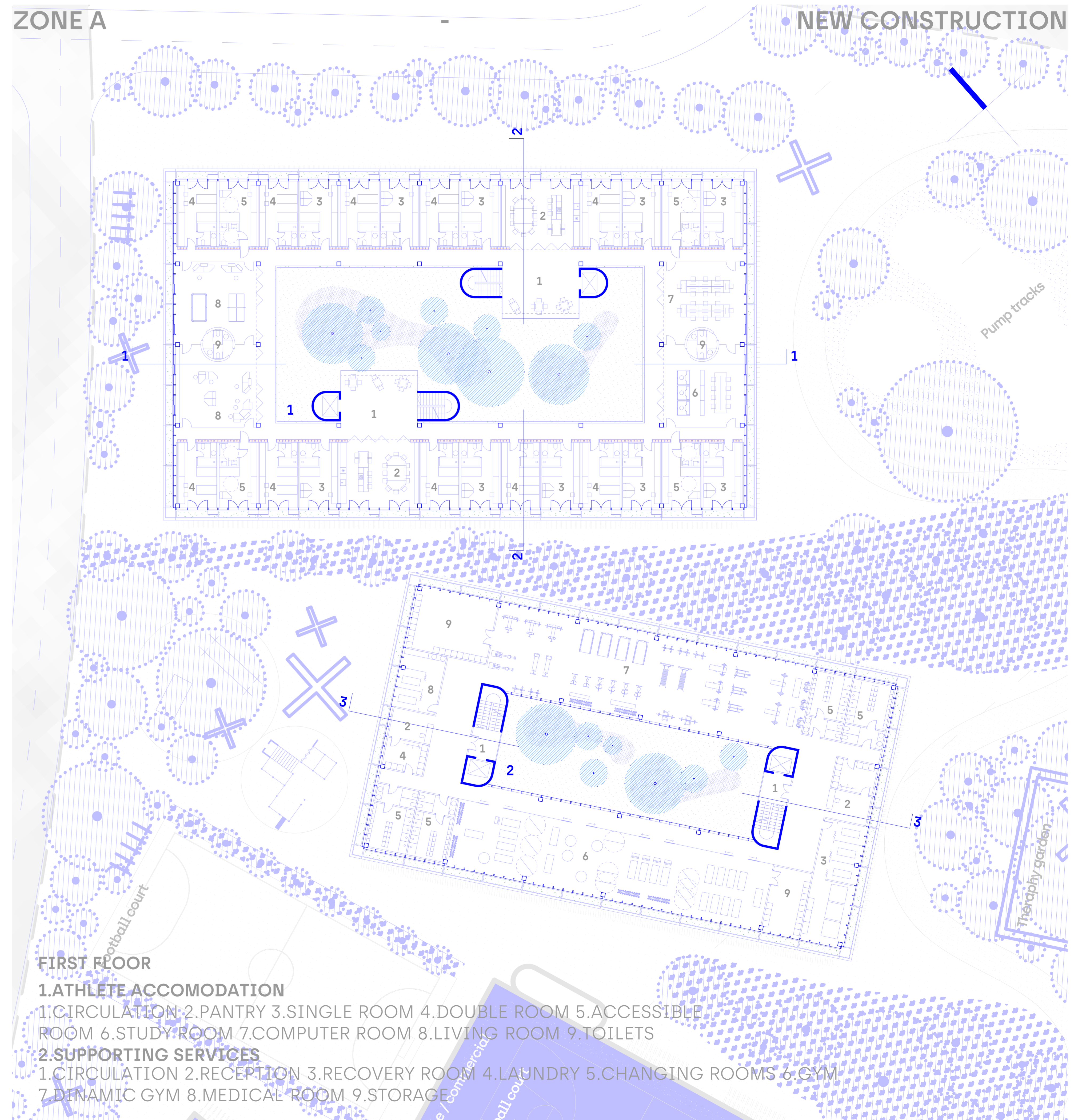
PRIVATE

# MODULAR FLEXIBILITY





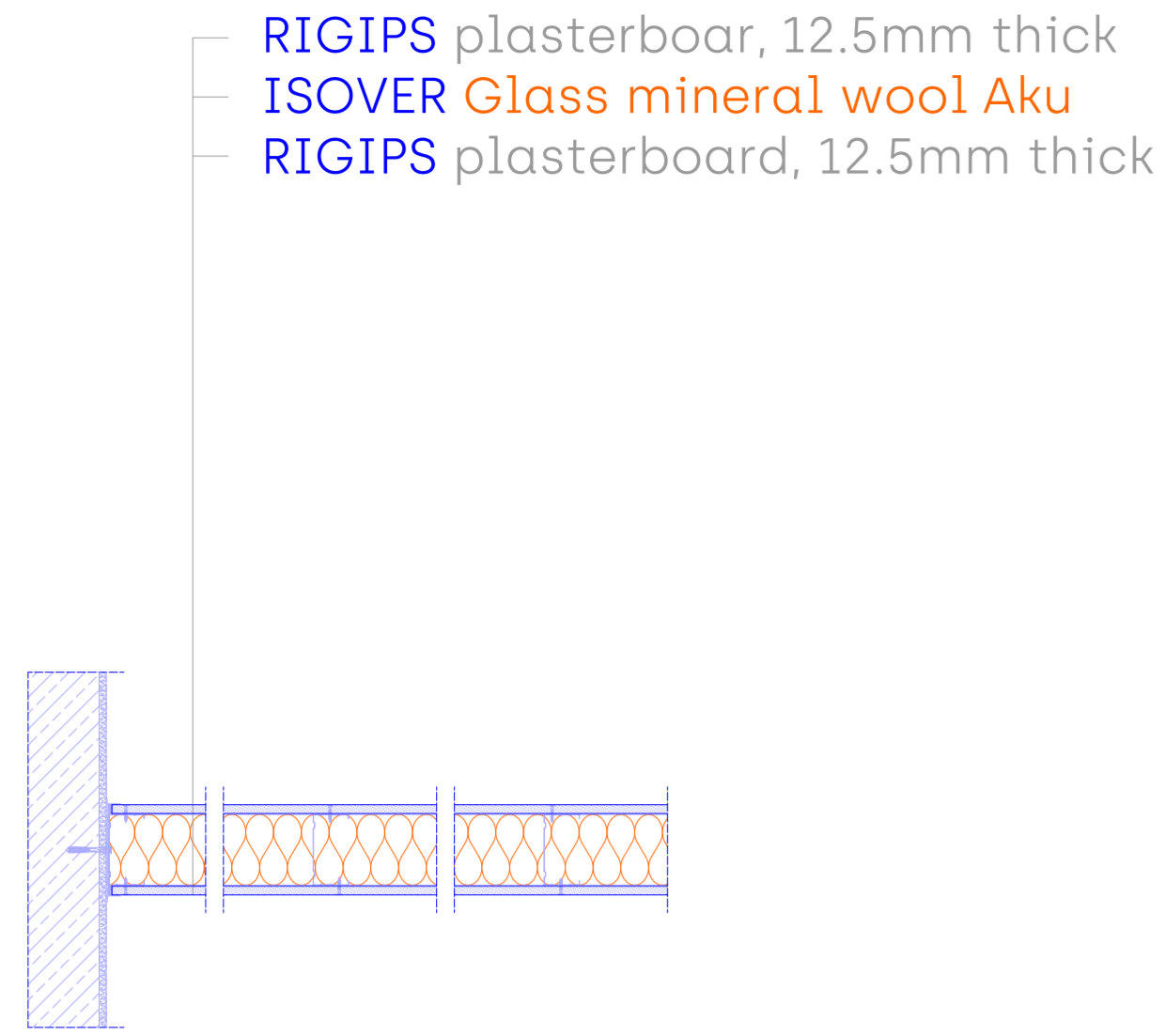
- GROUND FLOOR**
- 1.ATHLETE ACCOMODATION**  
 1.VESTIBULE 2.CIRCULATION 3.MAIN LAUNDRY 4.TOILET  
 5.RESTAURANT 6.KITCHEN 7.STORAGE 8.TOILETS STUFF
- 2.SUPPORTING SERVICES**  
 1.VESTIBULE 2.RECEPTION 3.BICYCLE STORAGE 4.CIRCULATION



- FIRST FLOOR**
- 1.ATHLETE ACCOMODATION**  
 1.CIRCULATION 2.PANTRY 3.SINGLE ROOM 4.DOUBLE ROOM 5.ACCESSIBLE ROOM 6.STUDY ROOM 7.COMPUTER ROOM 8.LIVING ROOM 9.TOILETS
- 2.SUPPORTING SERVICES**  
 1.CIRCULATION 2.RECEPTION 3.RECOVERY ROOM 4.LAUNDRY 5.CHANGING ROOMS 6.GYM 7.DINAMIC GYM 8.MEDICAL ROOM 9.STORAGE

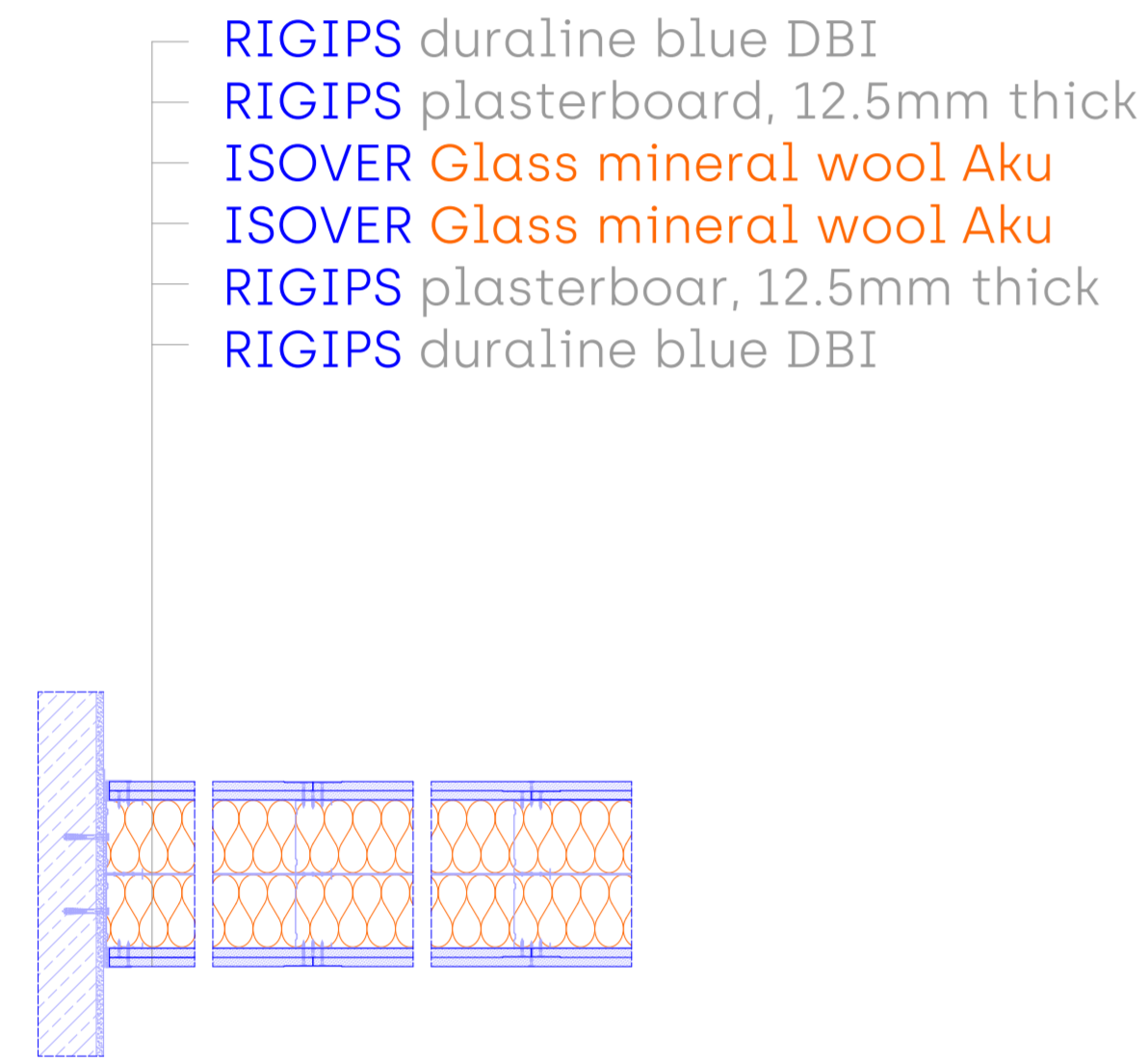
NEW CONSTRUCTION

PW1



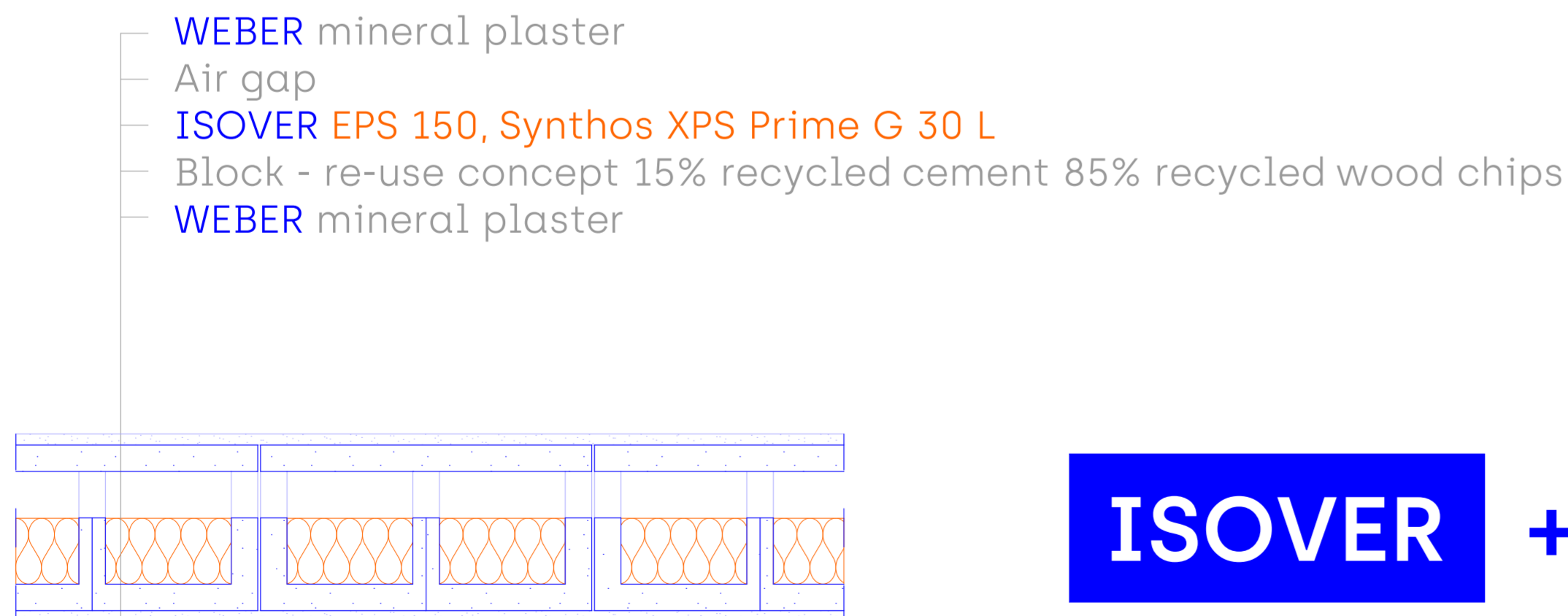
**ISOVER + RIGIPS**

PW2



**ISOVER + RIGIPS**

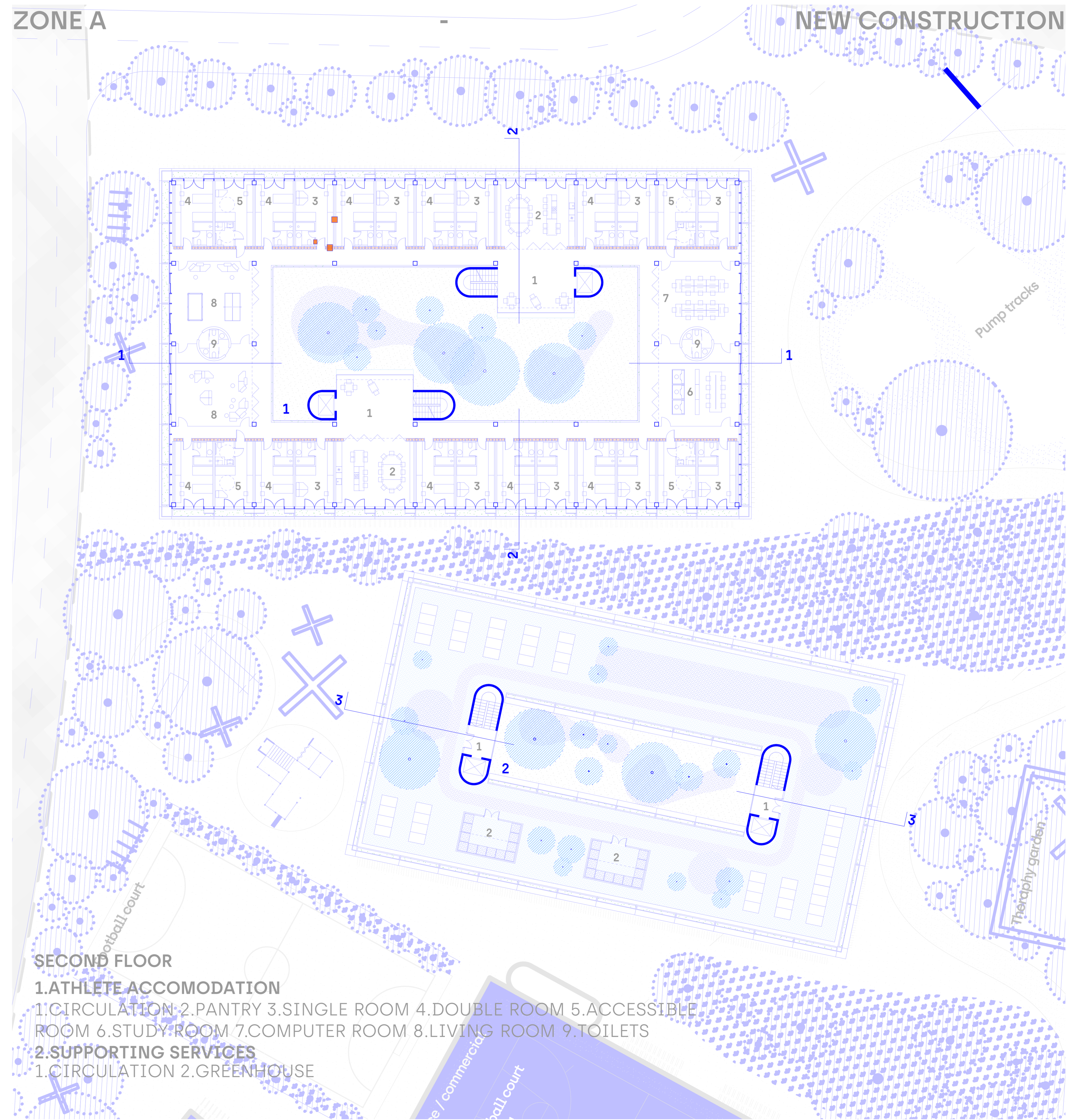
PW3



**ISOVER + WEBER**

ZONE A

NEW CONSTRUCTION



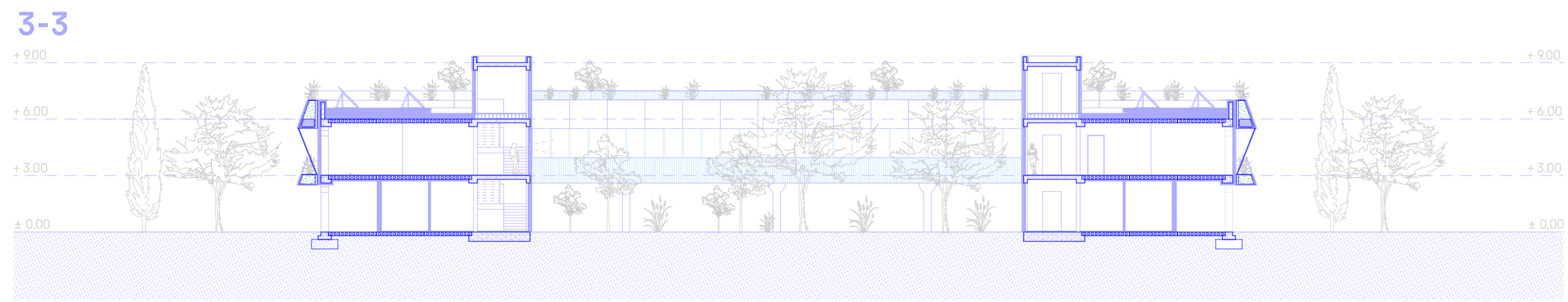
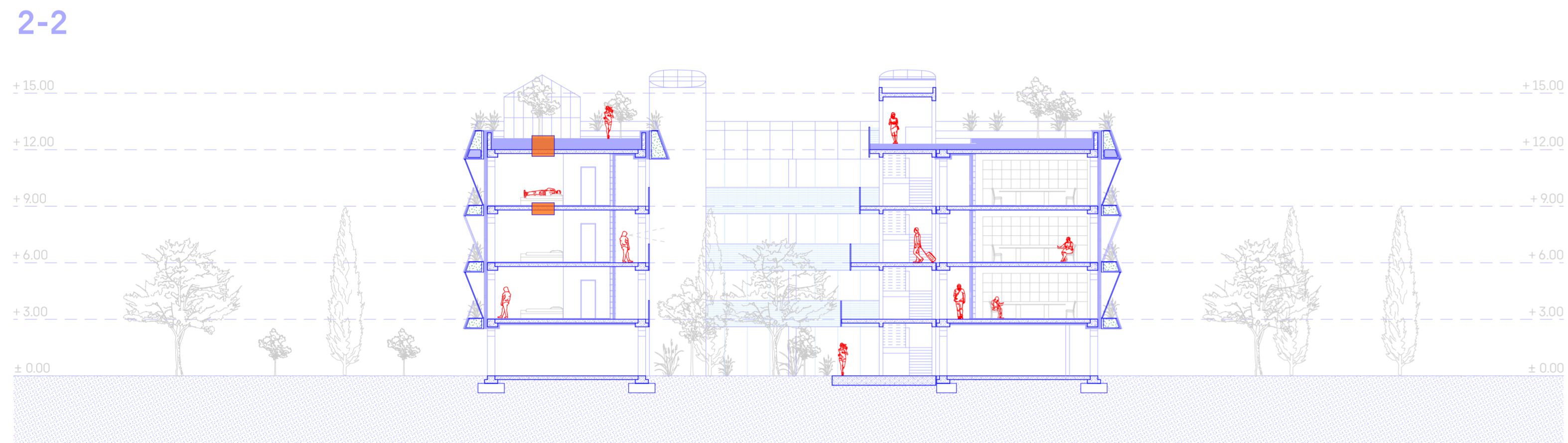
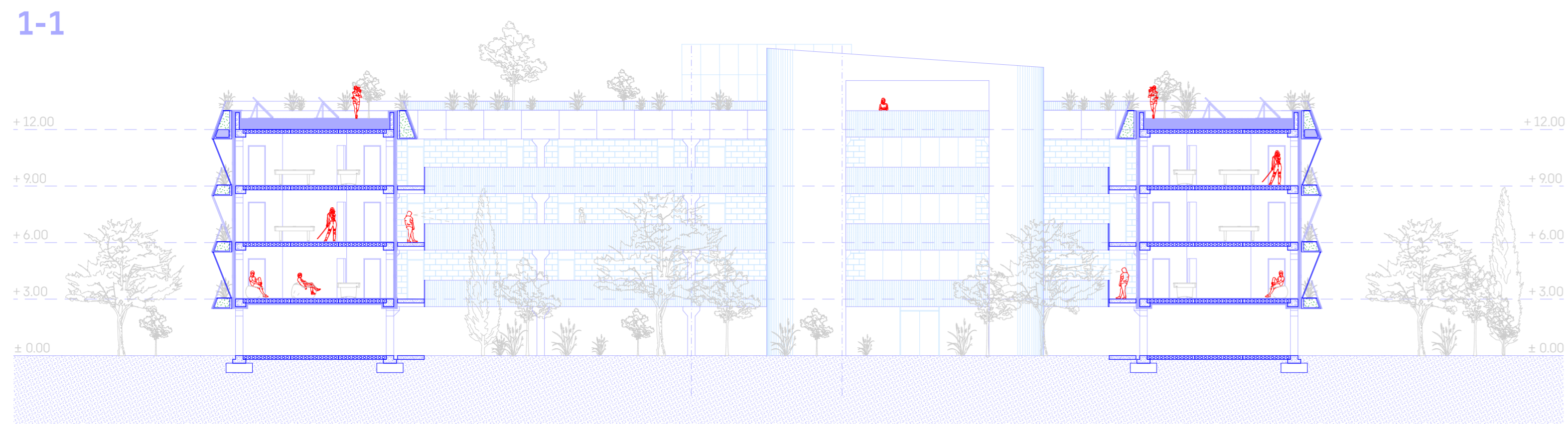
SECOND FLOOR

1.ATHLETE ACCOMODATION

1.CIRCULATION 2.PANTRY 3.SINGLE ROOM 4.DOUBLE ROOM 5.ACCESSIBLE ROOM 6.STUDY ROOM 7.COMPUTER ROOM 8.LIVING ROOM 9.TOILETS

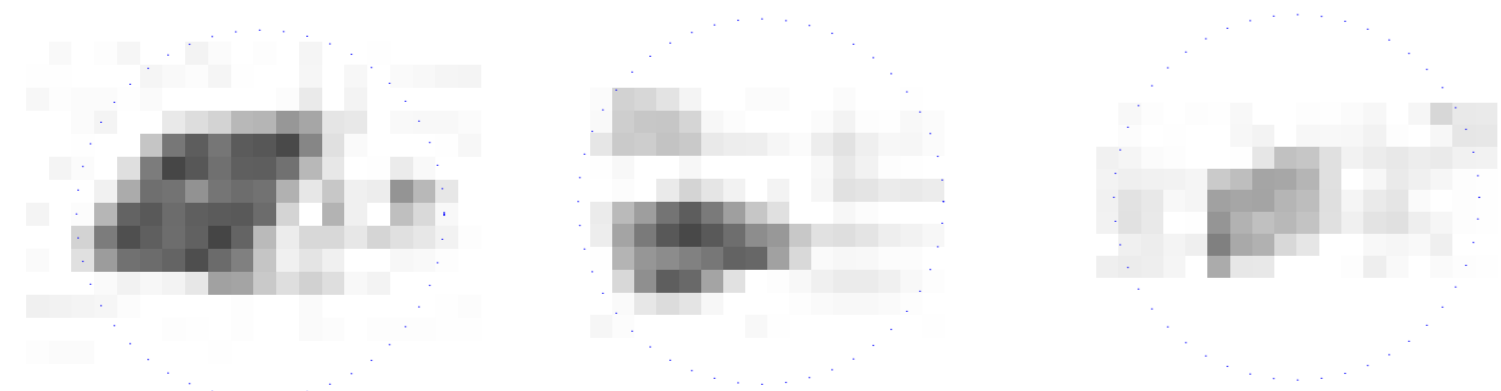
2.SUPPORTING SERVICES

1.CIRCULATION 2.GREENHOUSE

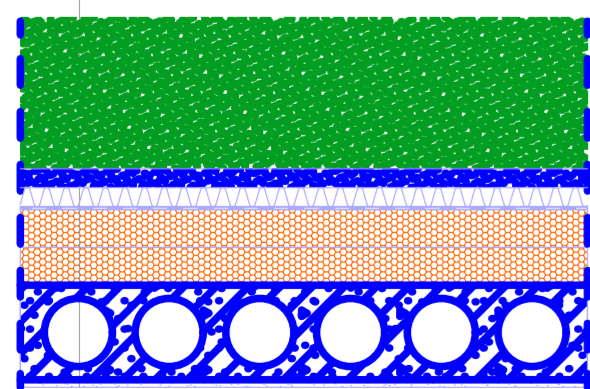


**DETAIL**  
ISOVER INTENSIVE ROOF

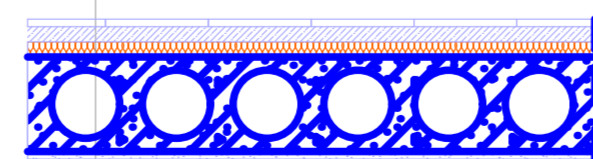
- Extensive greenery
- Intensive substrate
- ISOVER INTENSE
- Drainage foil
- Separation geotextile 300g/m²
- Root-resistant waterproofing
- ISOVER EPS 150 at slope of 0-4°
- ISOVER EPS 150, Synthos XPS Prime G 30 L
- ISOVER Stopair 1104 vapor barrier foil
- Hollow-Core slab
- WEBER mineral plaster



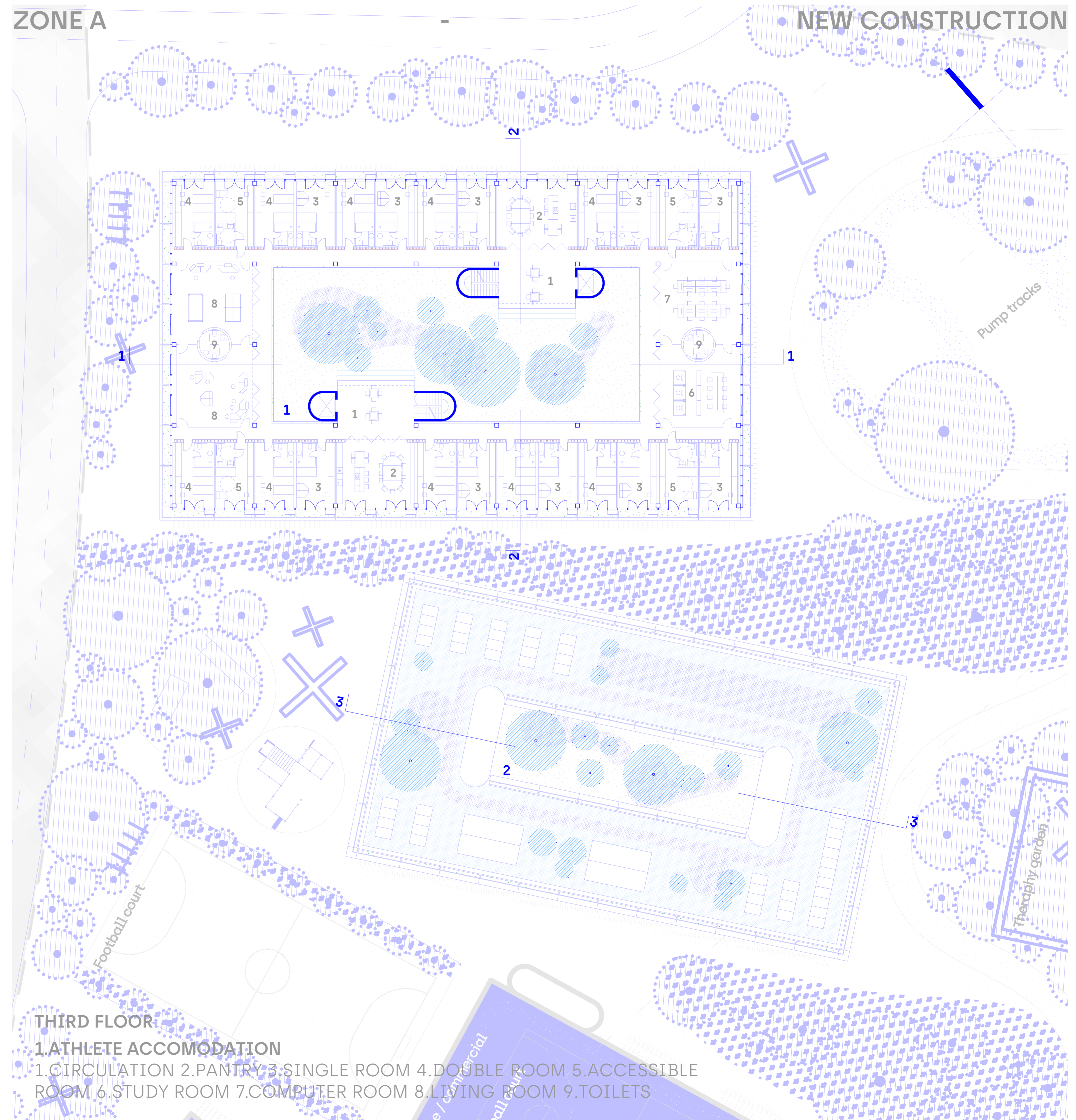
**WEBER + ISOVER**



- Wooden flooring
- WEBER Flexibtle Adhesive Mortar
- Cement screed
- ISOVER Stopair 1104 vapor barrier foil
- ISOVER Stropoterm rock mineral wool
- Hollow-Core slab
- WEBER mineral plaster

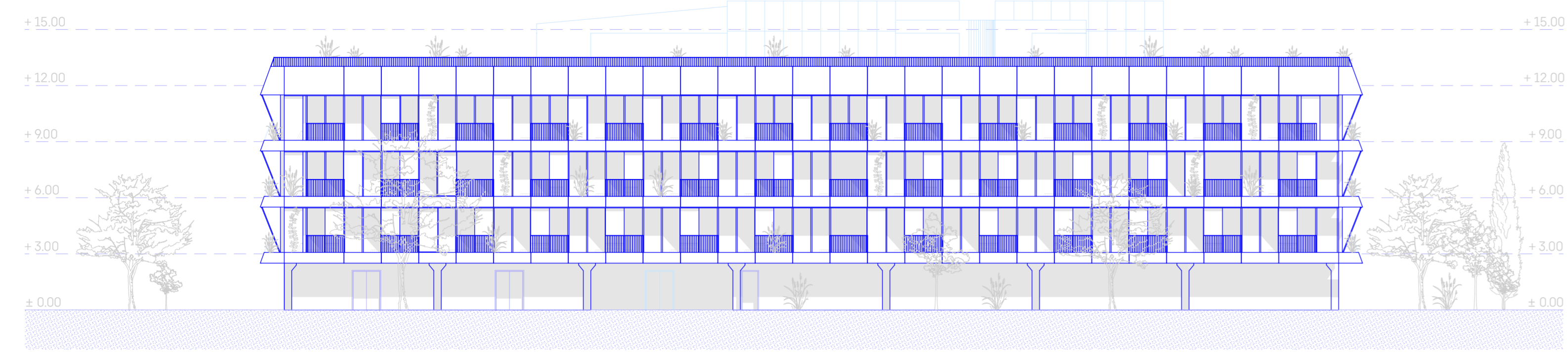


**ZONE A**

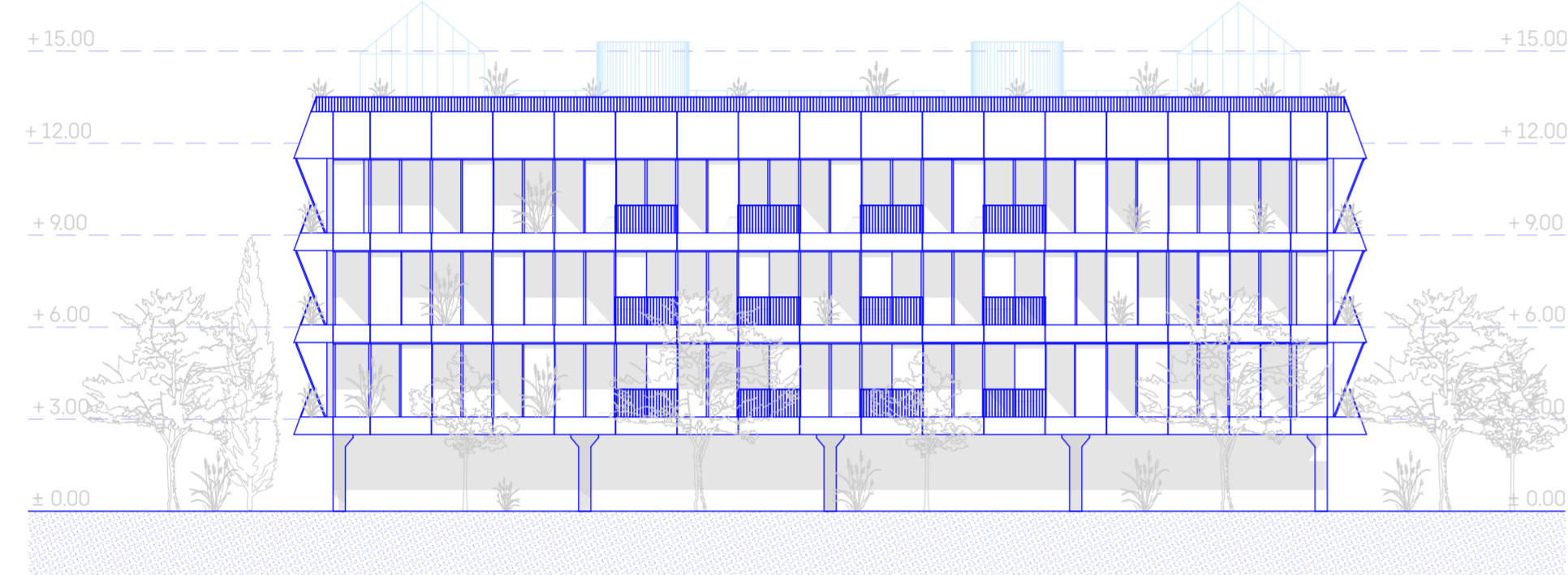


**THIRD FLOOR**  
**1.ATHLETE ACCOMODATION**  
 1.CIRCULATION 2.PANTRY 3.SINGLE ROOM 4.DOUBLE ROOM 5.ACCESSIBLE ROOM 6.STUDY ROOM 7.COMPUTER ROOM 8.LIVING ROOM 9.TOILETS

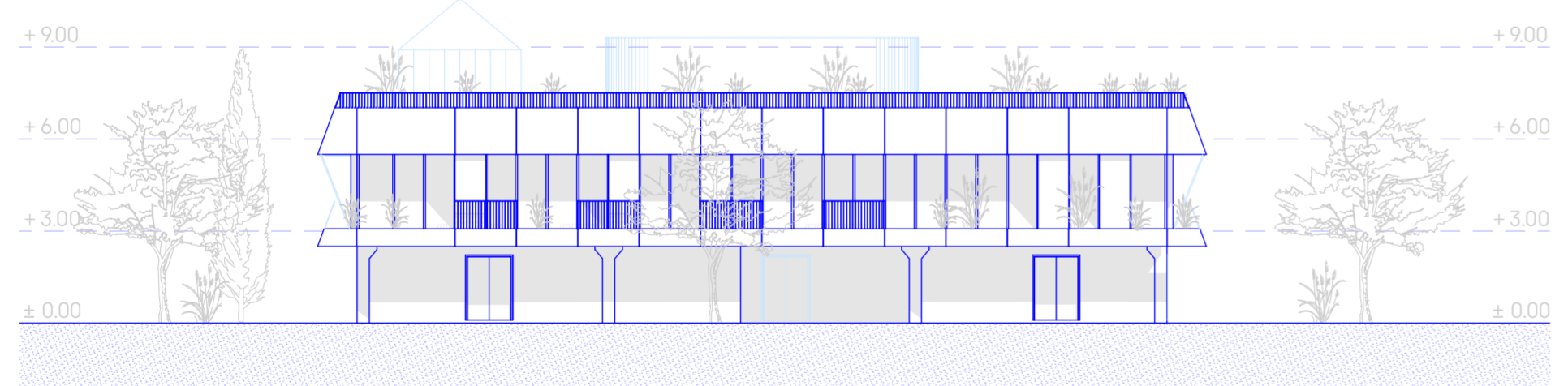
NORTH - EAST ELEVATION - ATHLETE ACCOMODATION



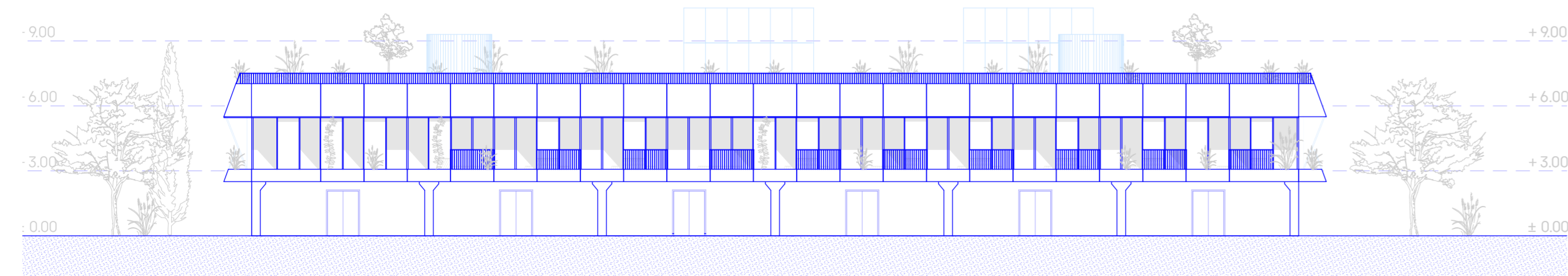
SOUTH - WEST ELEVATION - ATHLETE ACCOMODATION



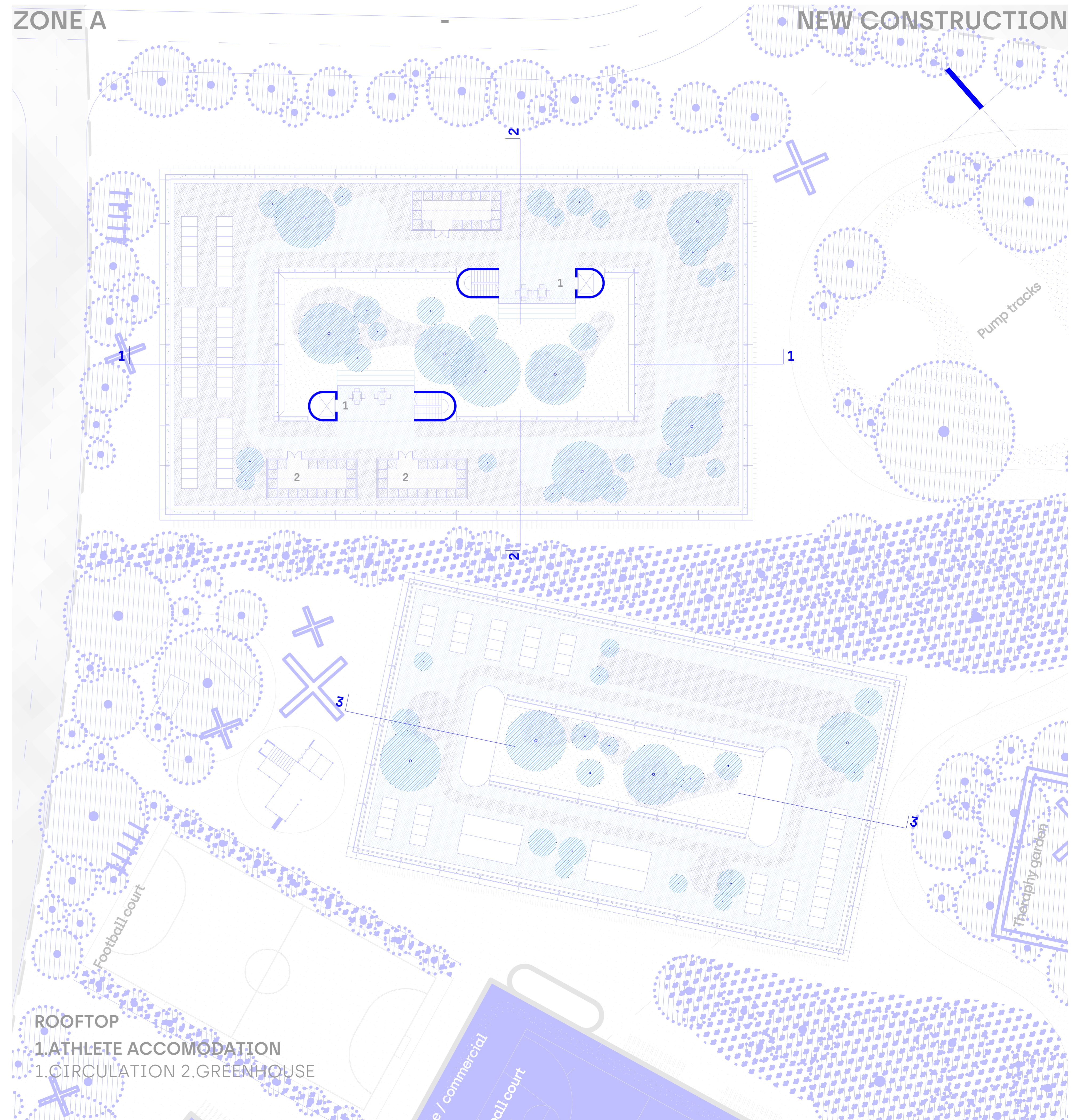
SOUTH - EAST ELEVATION - SUPPORTING SERVICES



NORTH - EAST ELEVATION - SUPPORTING SERVICES

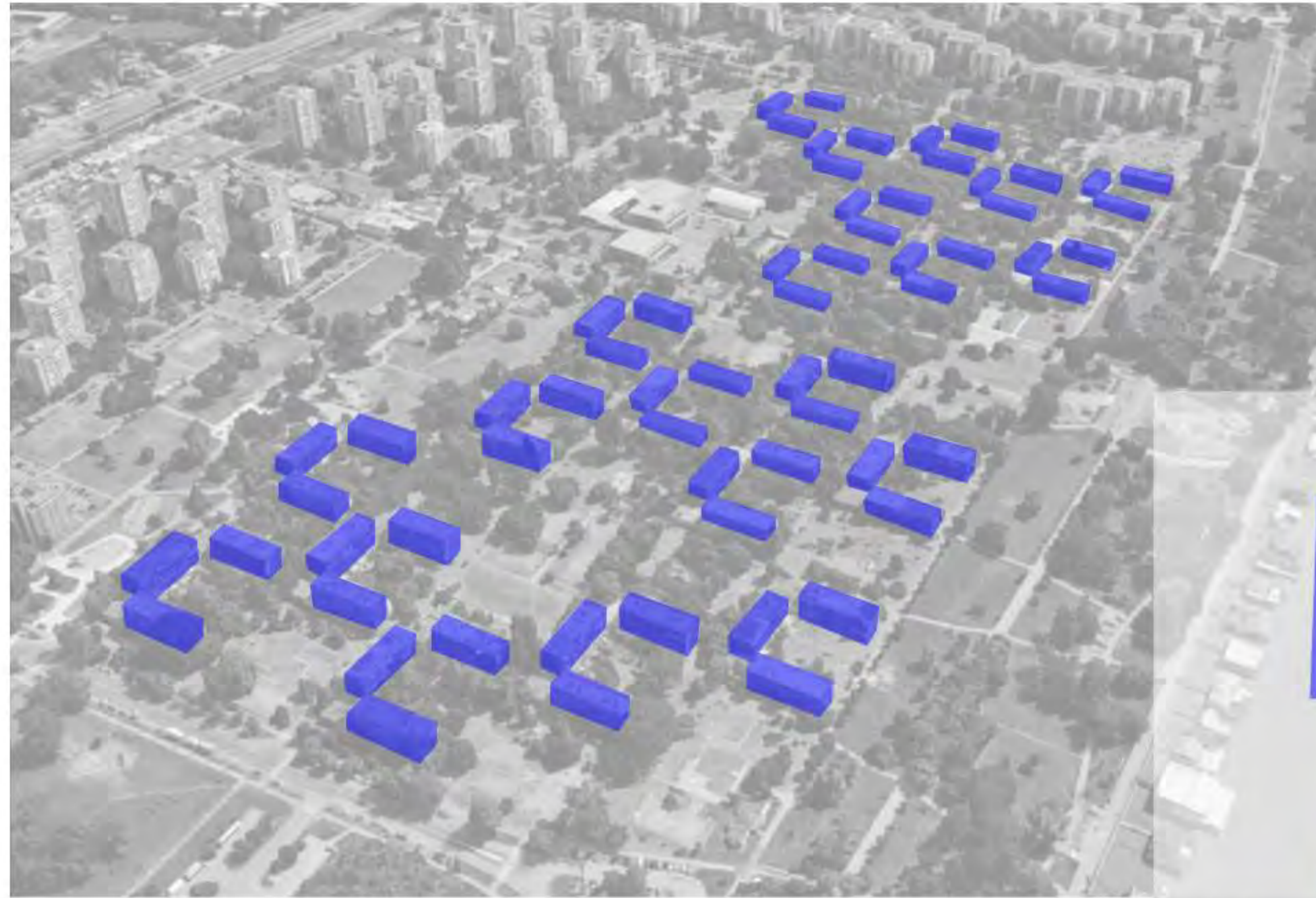


ZONE A

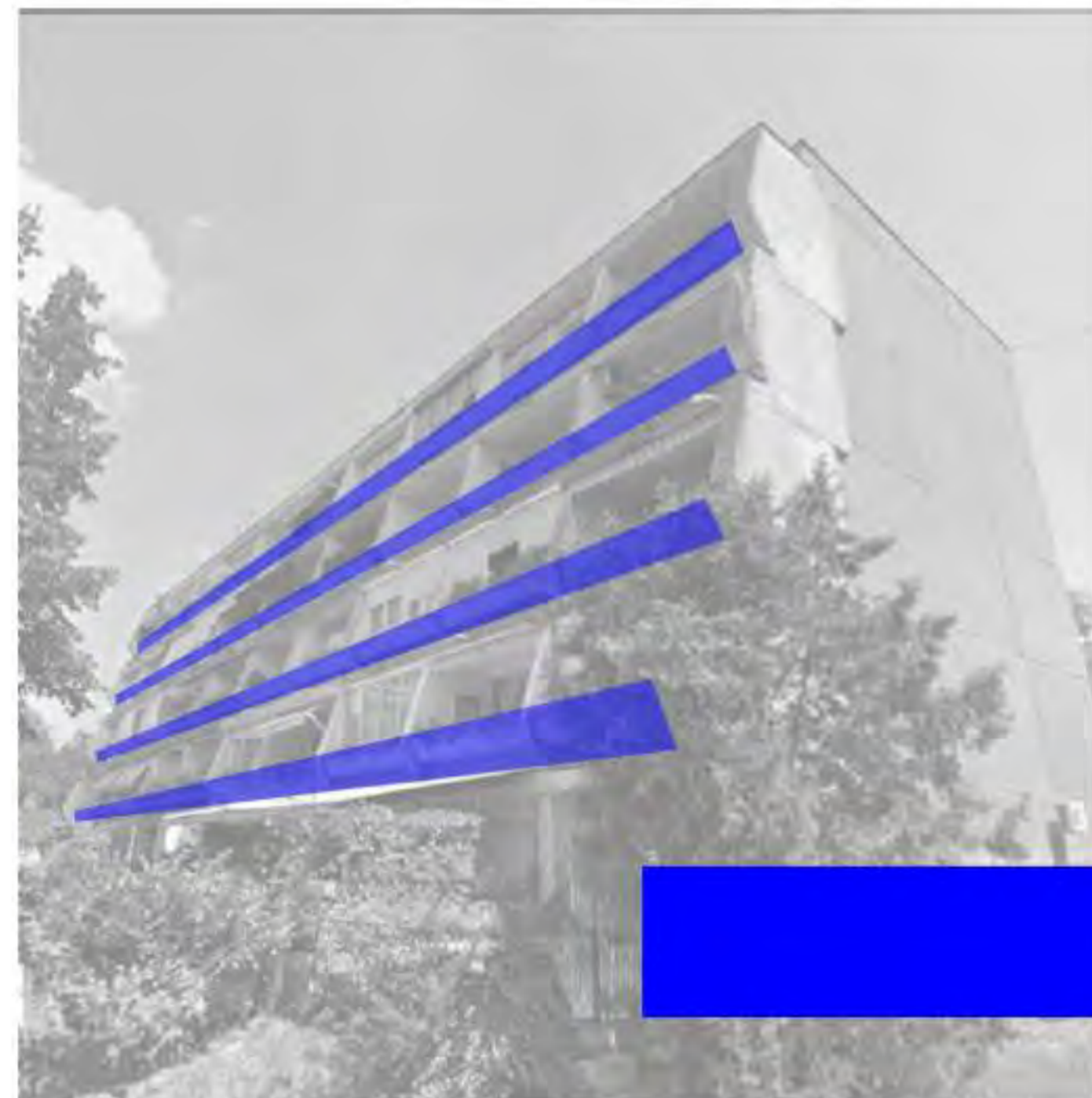


ROOFTOP  
 1.ATHLETE ACCOMODATION  
 1.CIRCULATION 2.GREENHOUSE

NEW CONSTRUCTION - FACADE CONCEPT

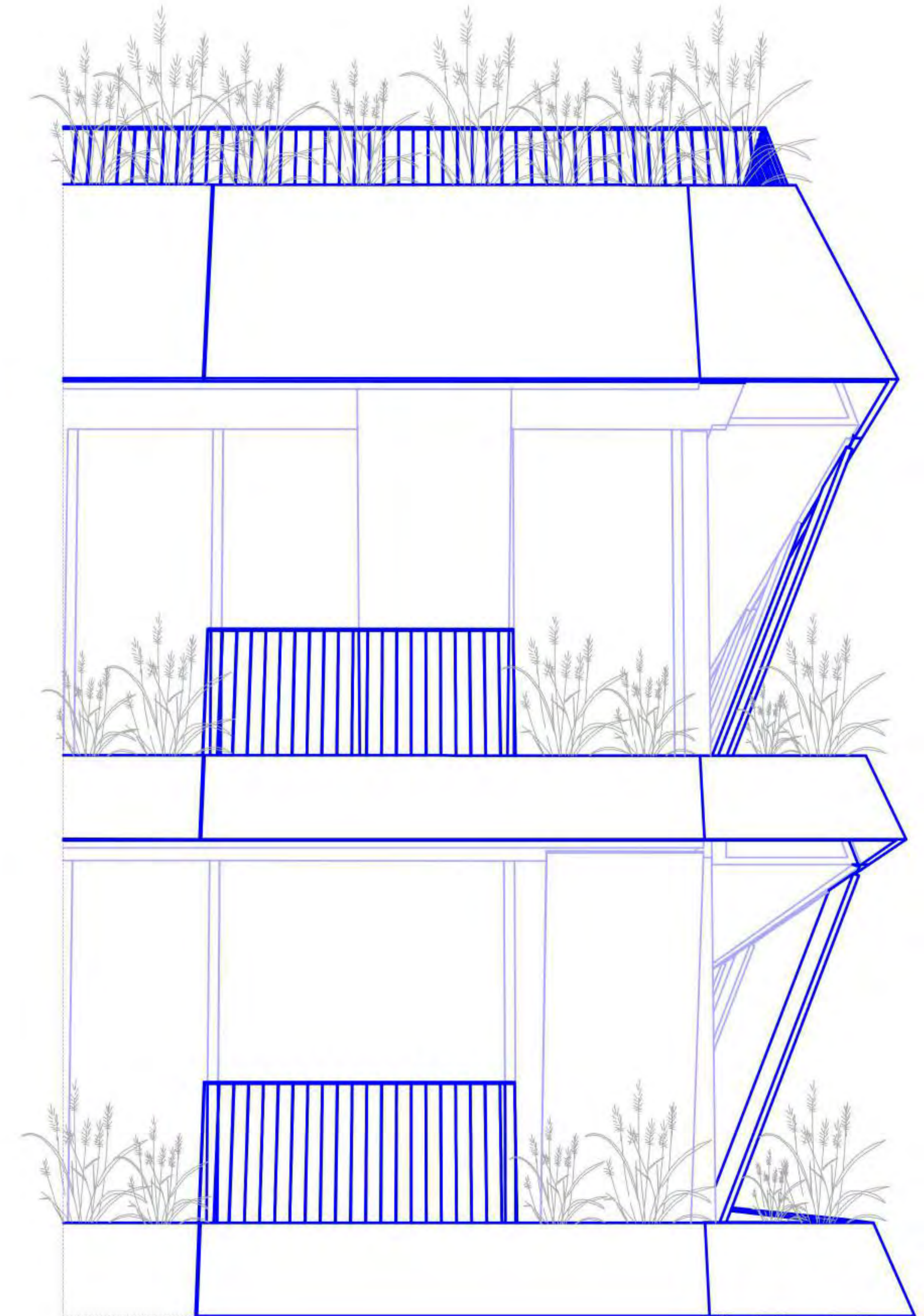


SHADING



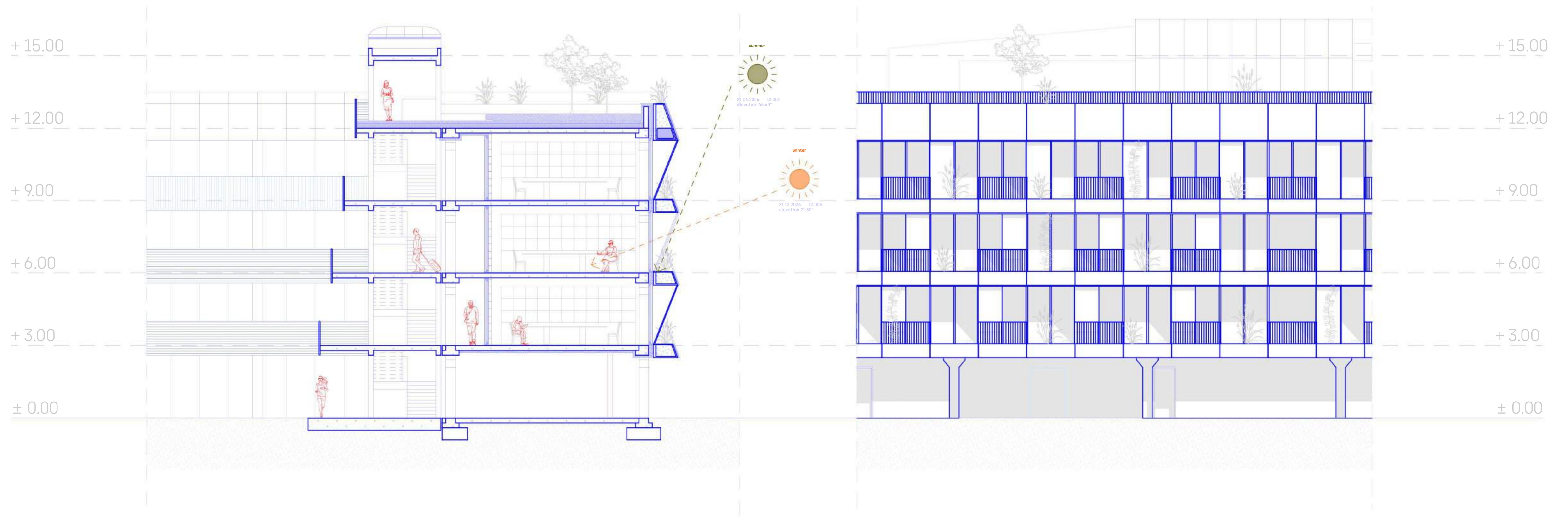
ADAPTIVE FACADE

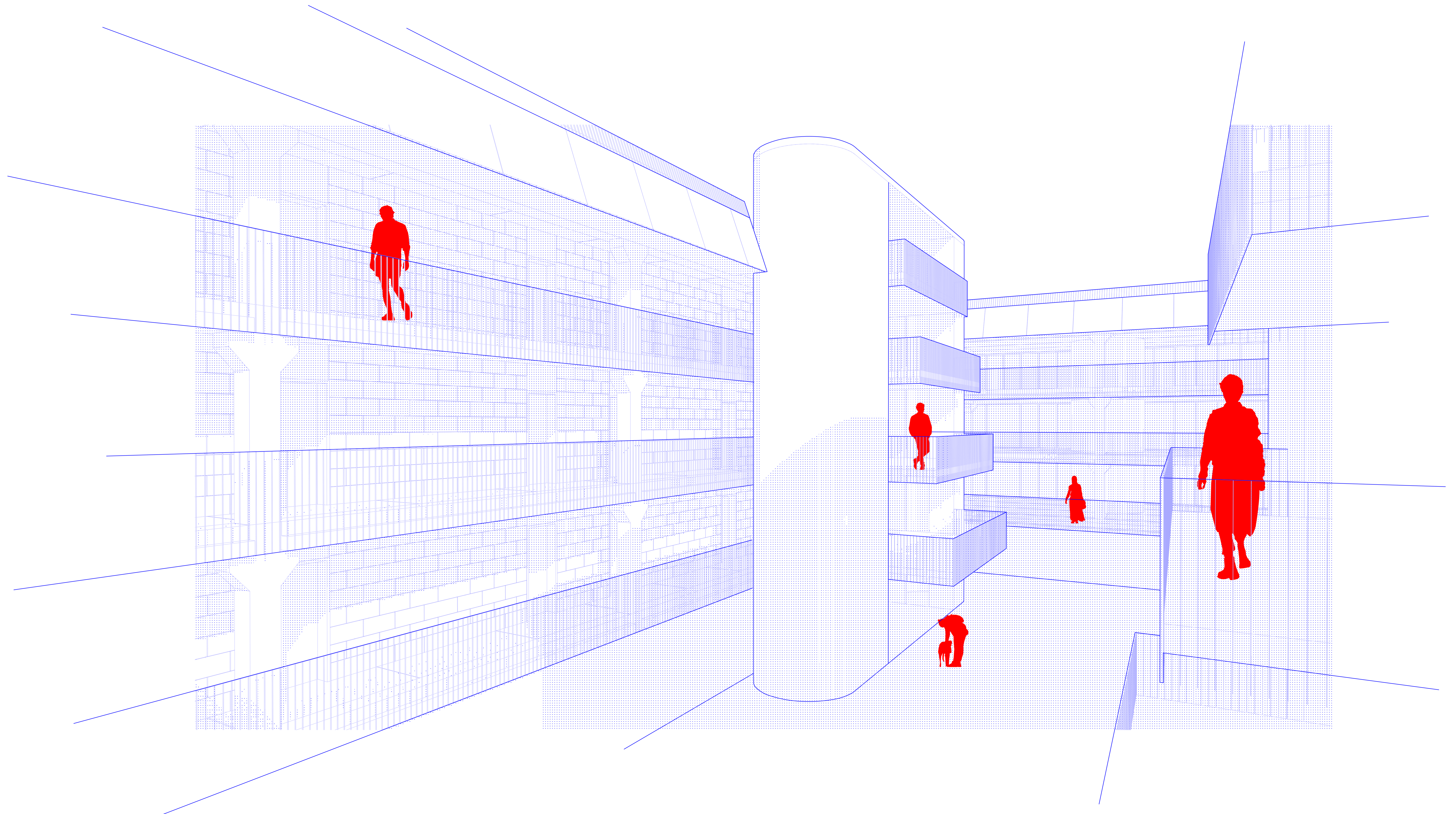
GREEN

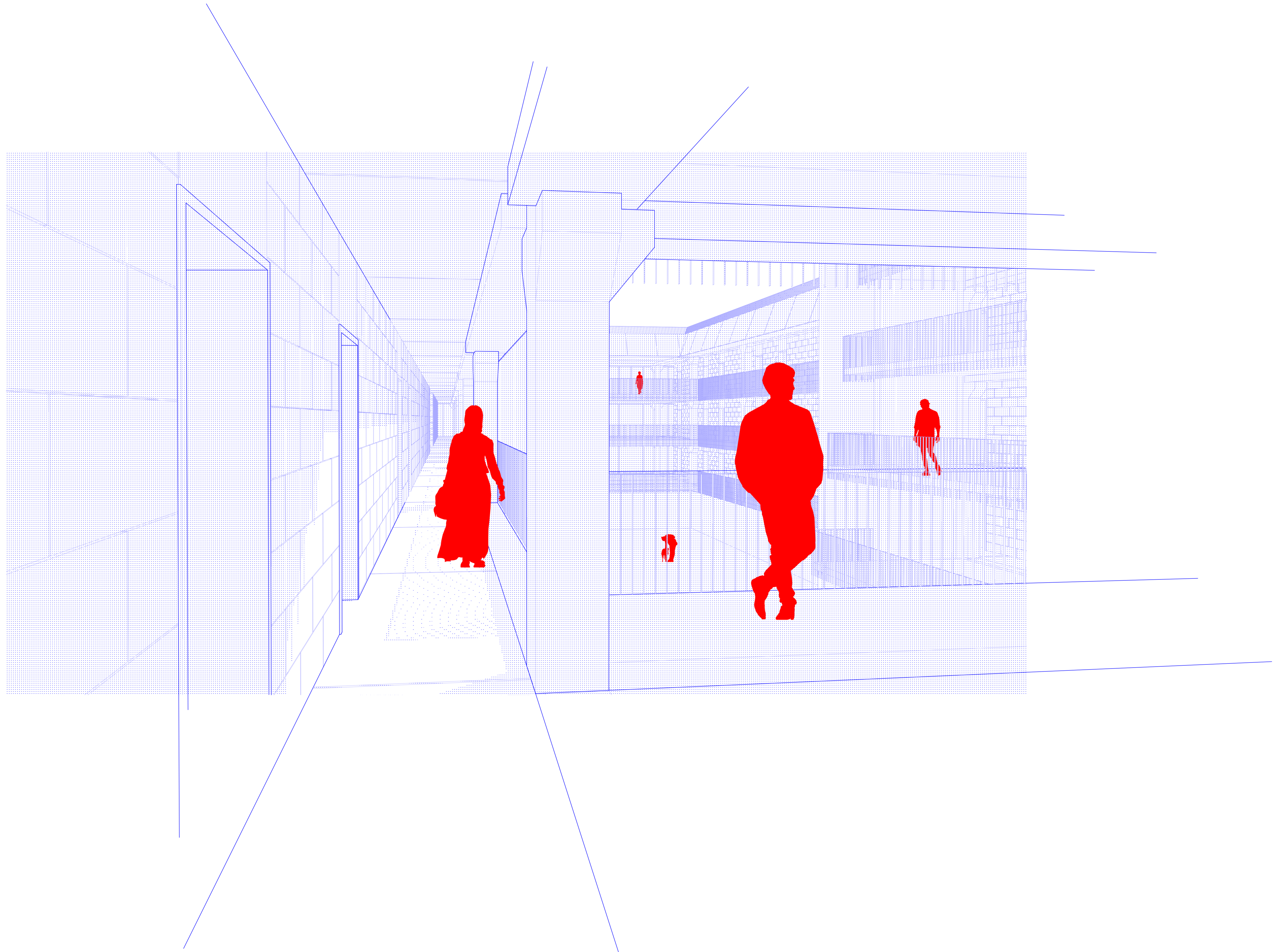


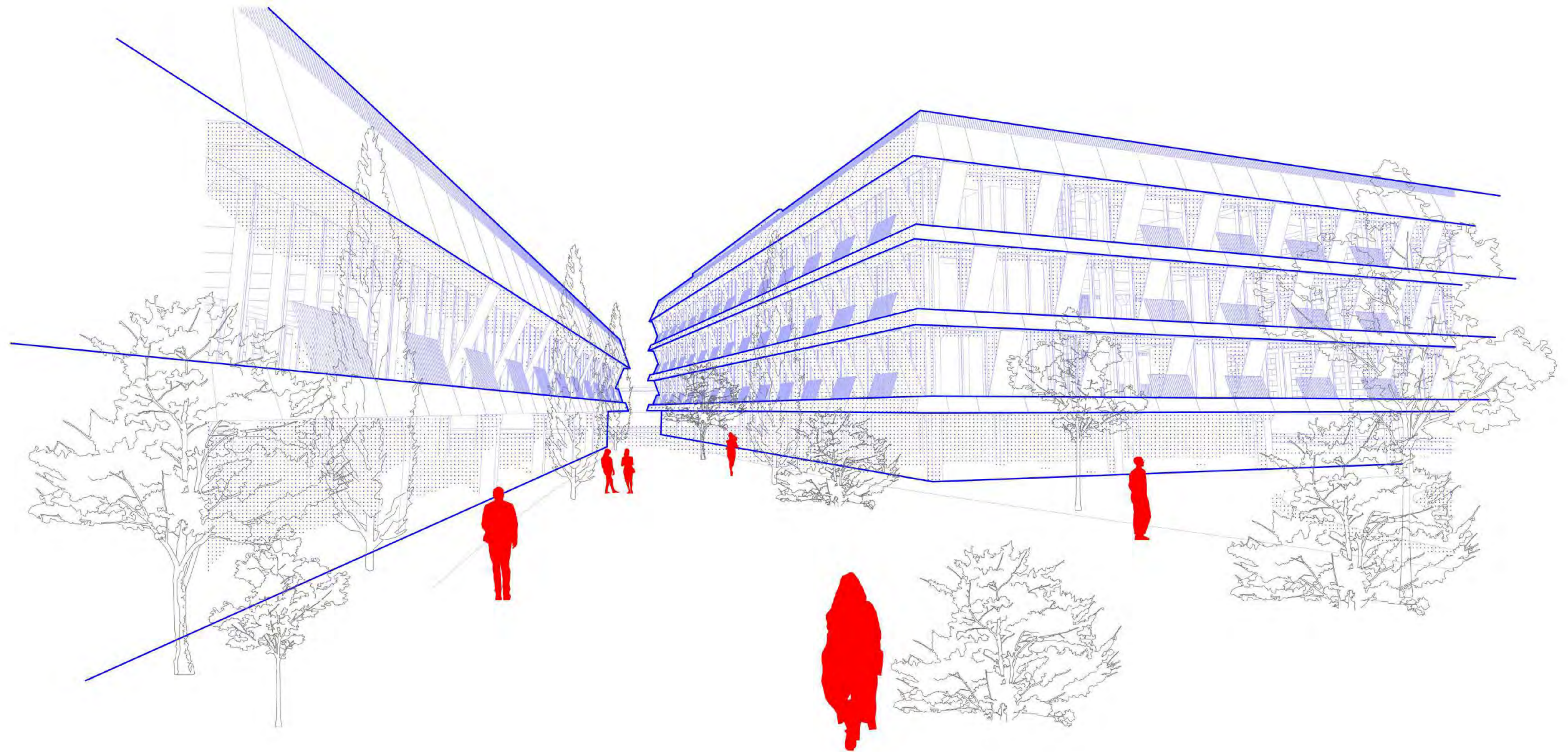


Sava



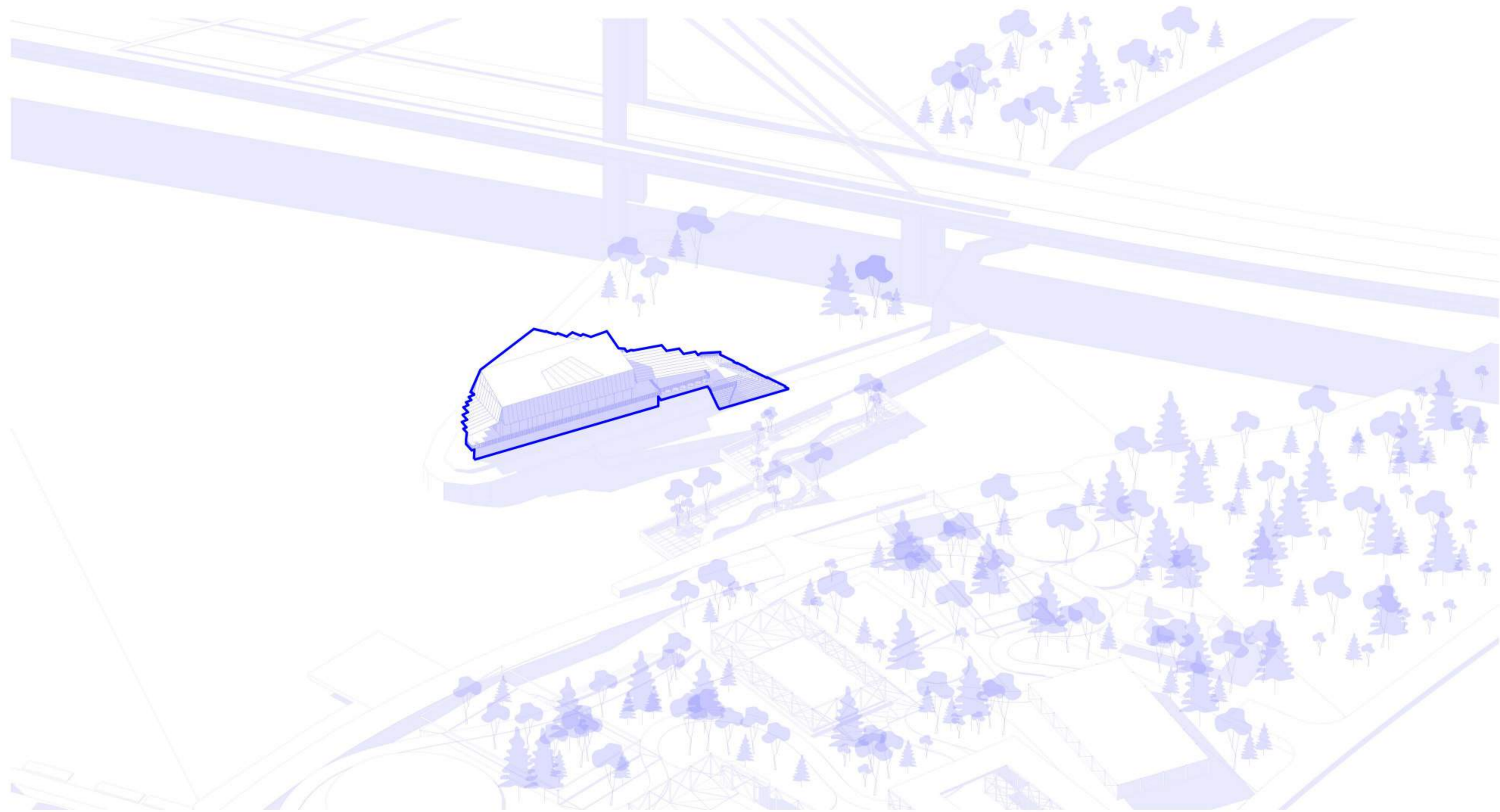










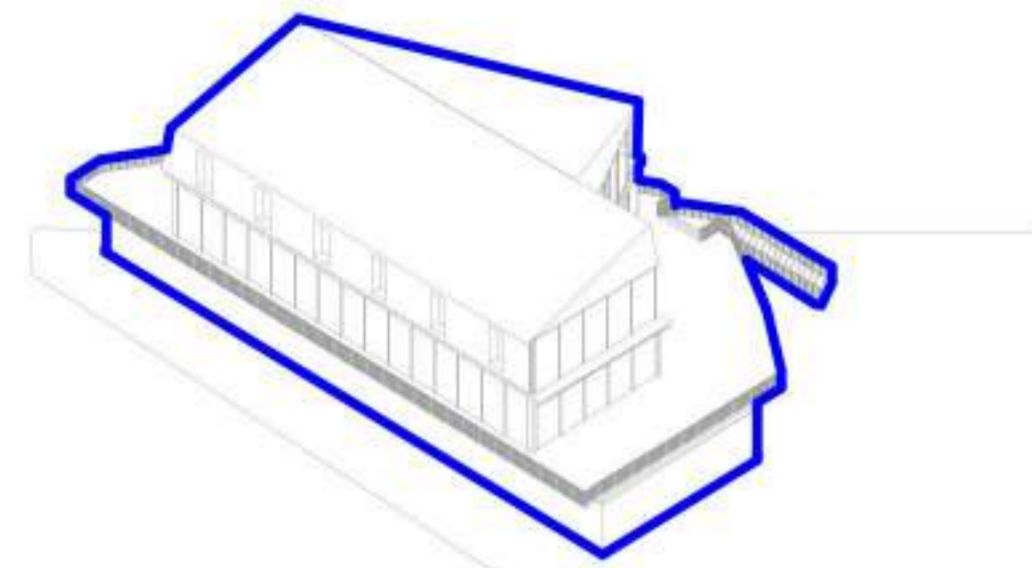


**RENOVATION**

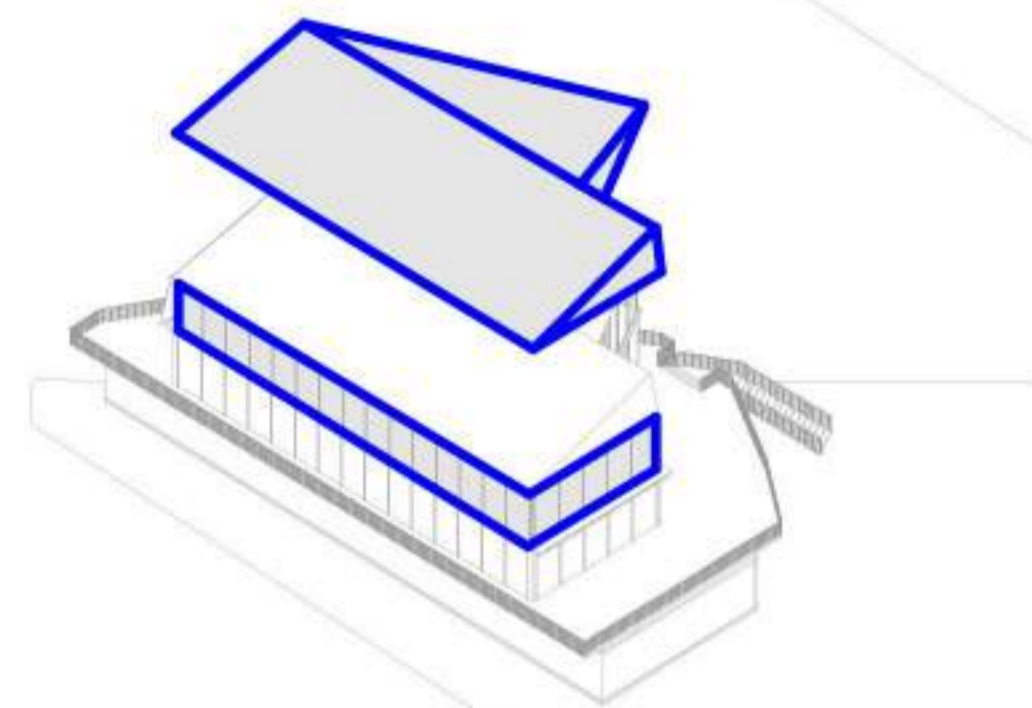
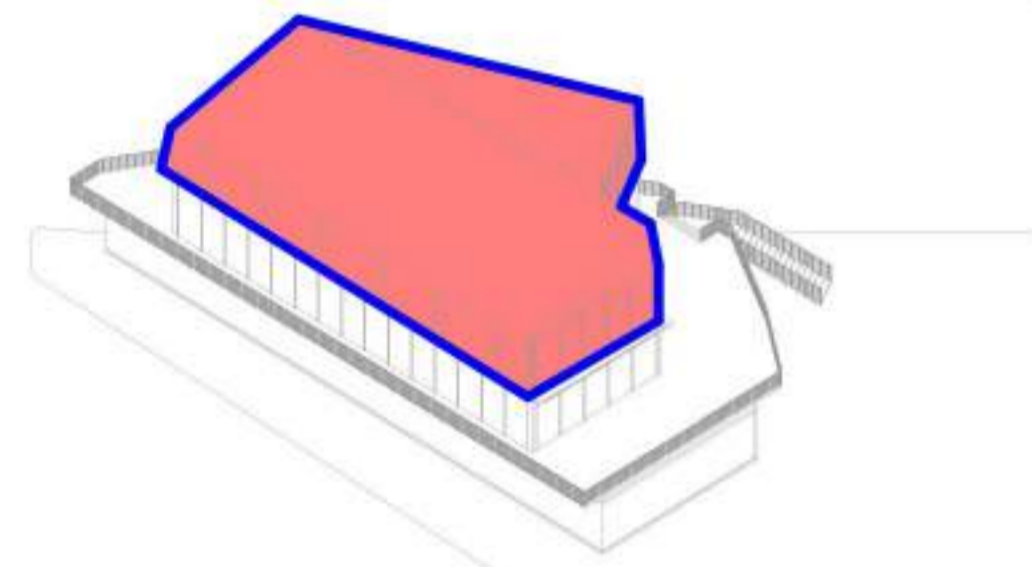
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**ACADEMIC YACHTING CLUB BELGRADE**

1 / existing object

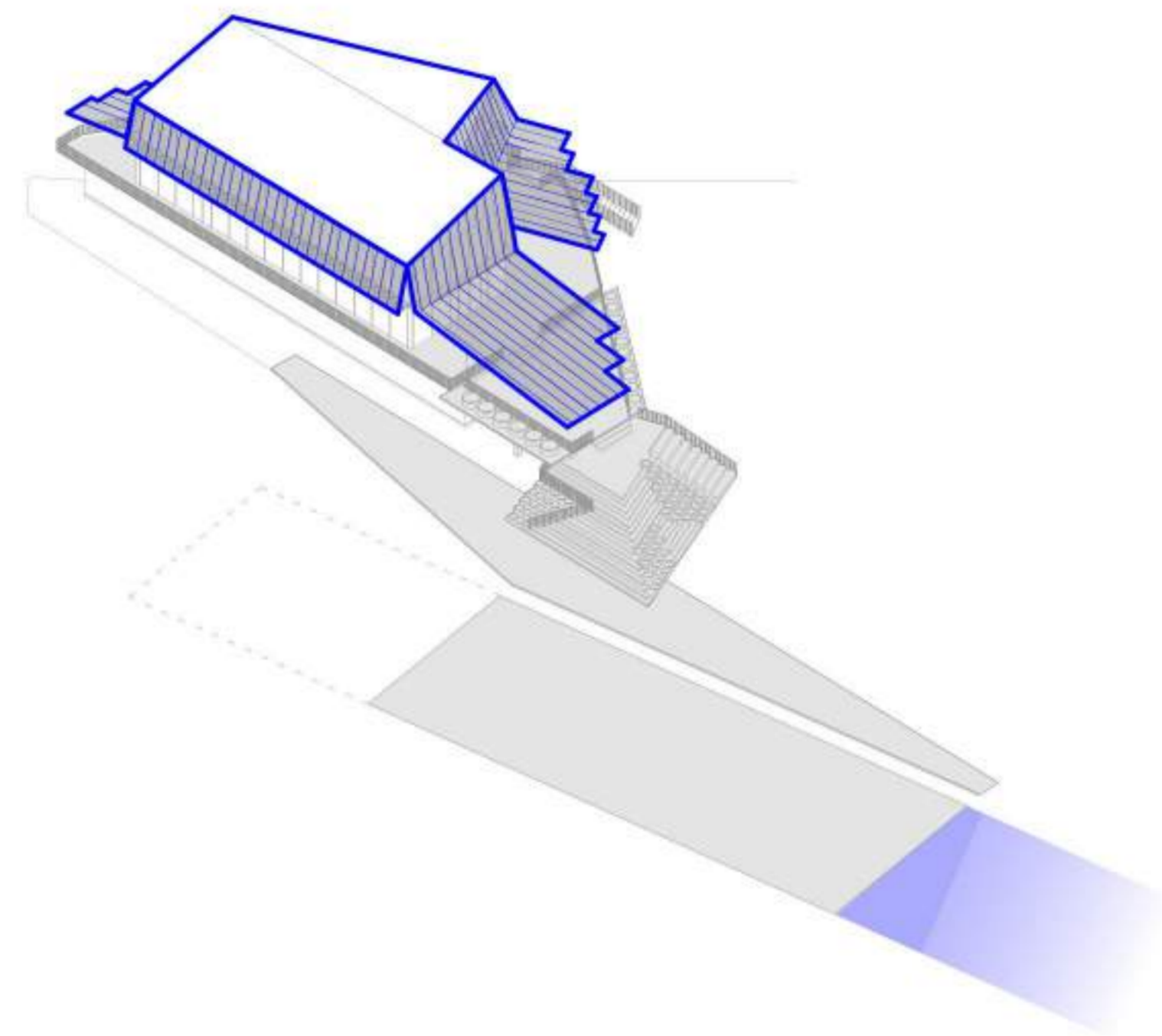
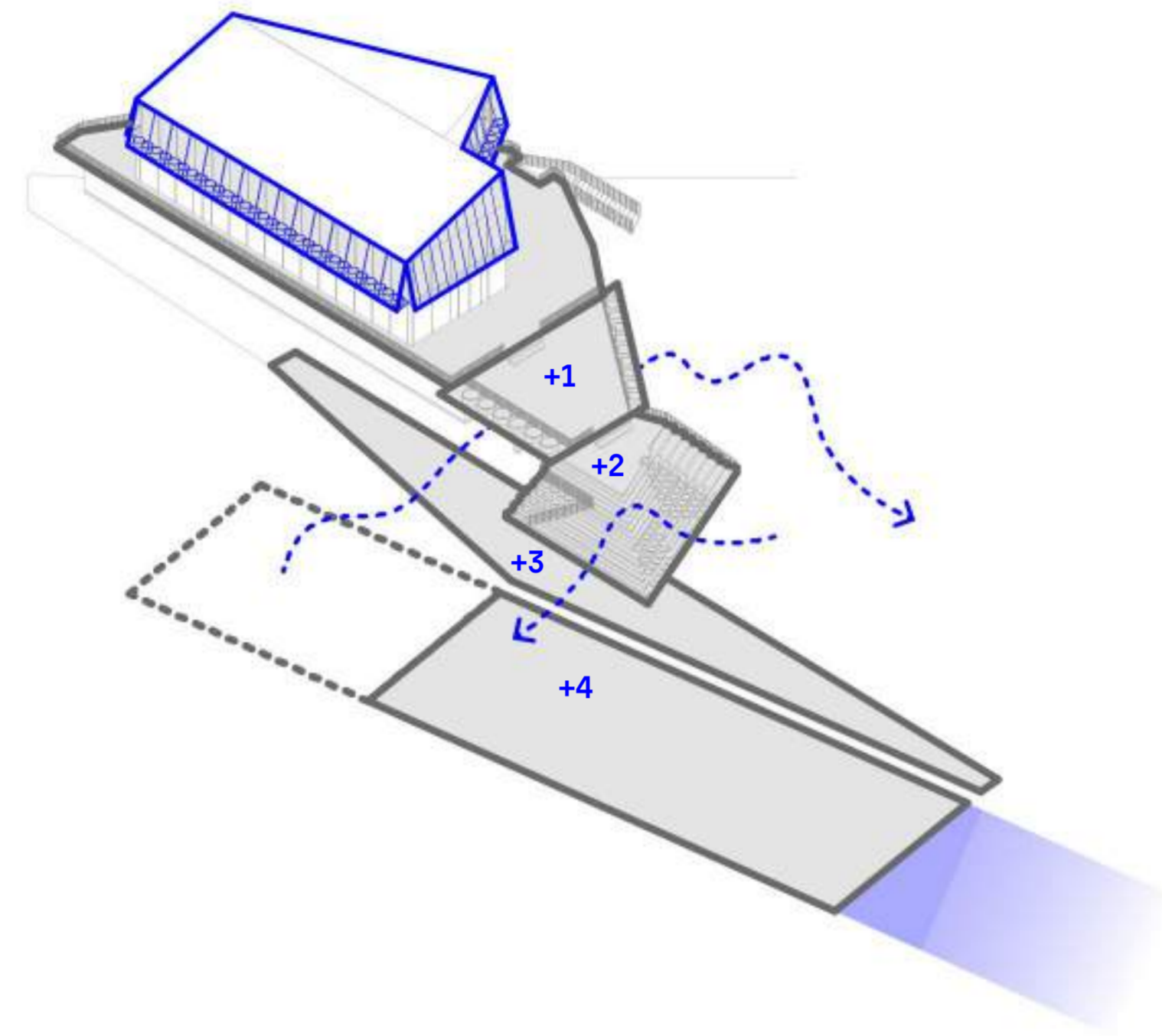


2 / envelope removal



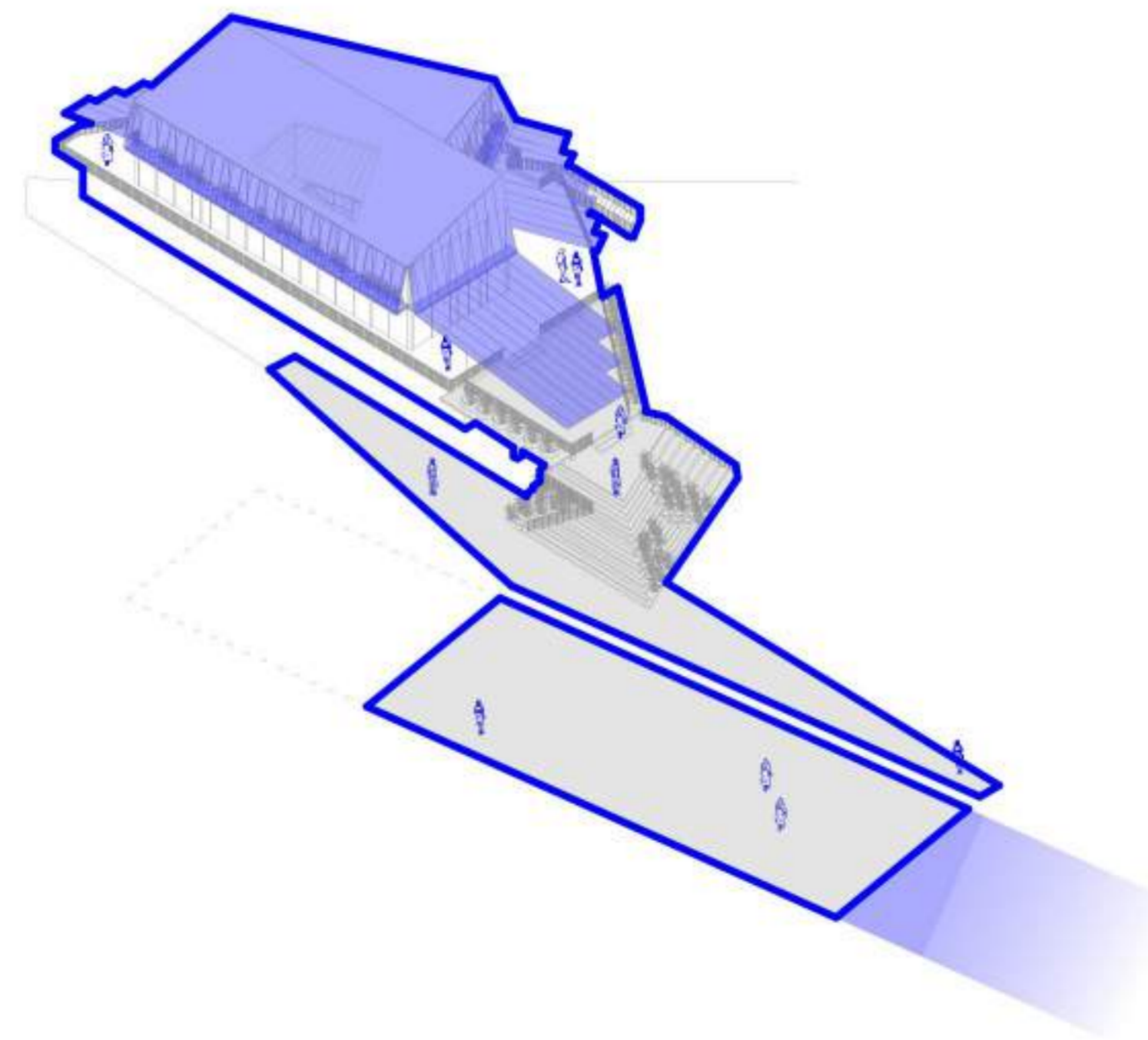
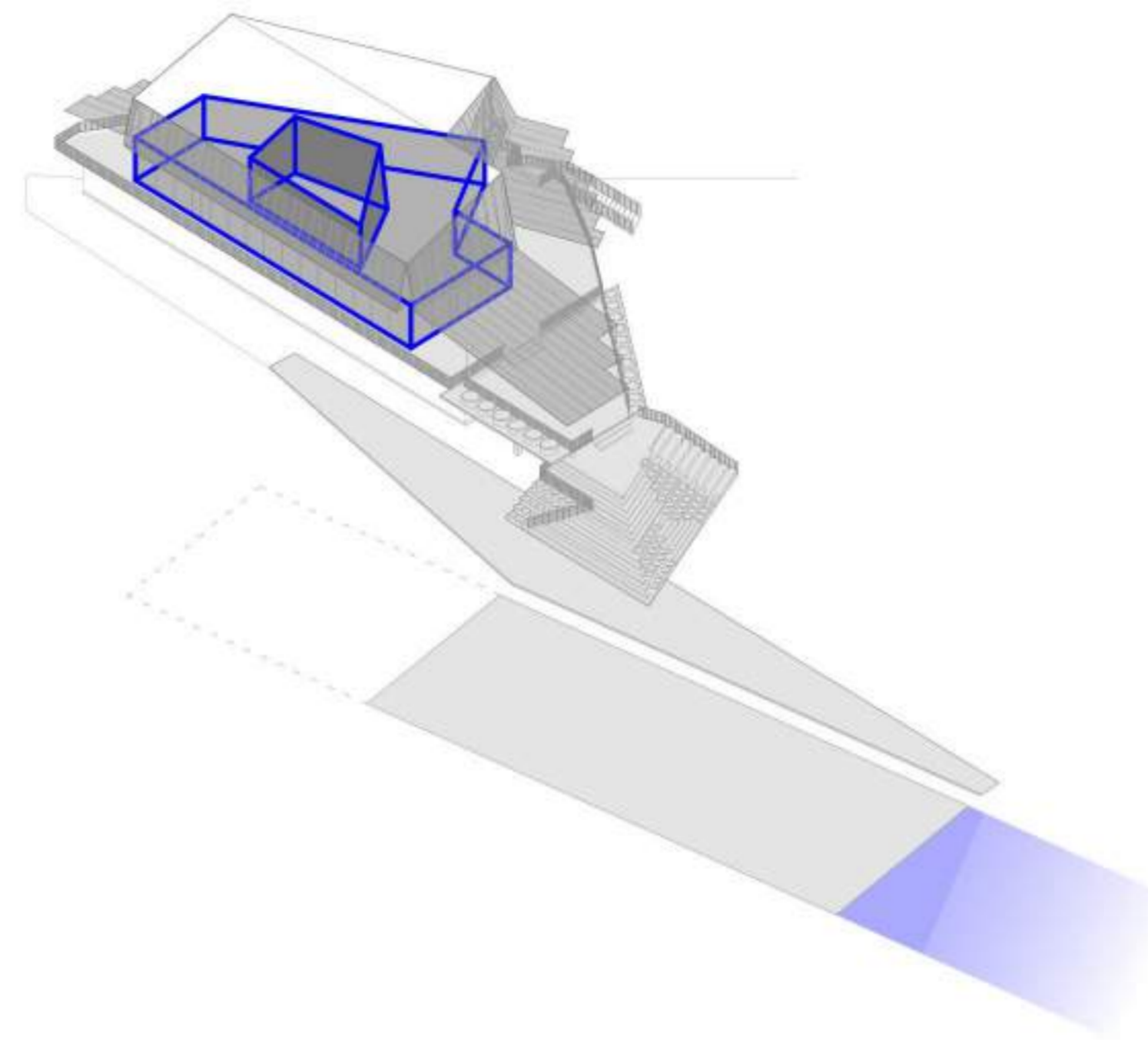
3 / transparent envelope

4 / vegetative facade



5 / sail structure

6 / new void



7 / renovation completed

## ZONE B

**THE YACHT CLUB ENVOLVES INTO A SOCIAL HUB, WHERE PEOPLE GATHER AND CONNECT WITHIN NATURE, SURROUNDED BY RIVER AND VEGETATION. LIGHT, TRANSPARENT, INVITING STRUCTURE OFFERING OBSERVATION AND ENGAGEMENT WITH NATURE.**

## RENOVATION

The renovation concept of the yacht club addresses the necessary upgrading of the existing structure. The roof and façades no longer meet current energy performance standards, requiring their replacement and the introduction of increased thermal insulation thickness. Due to the complexity of these changes, the second floor is completely reconstructed and fully glazed, enabling views towards the surrounding amenities. This represents a crucial intervention, where the previously massive structure with small openings is stripped and replaced with energy-efficient glass surfaces. Additionally, to protect the upper floor from solar exposure, polycarbonate panels are introduced on one side, while textile shading elements are applied on the other, providing sun protection, increased privacy, and improved spatial comfort.

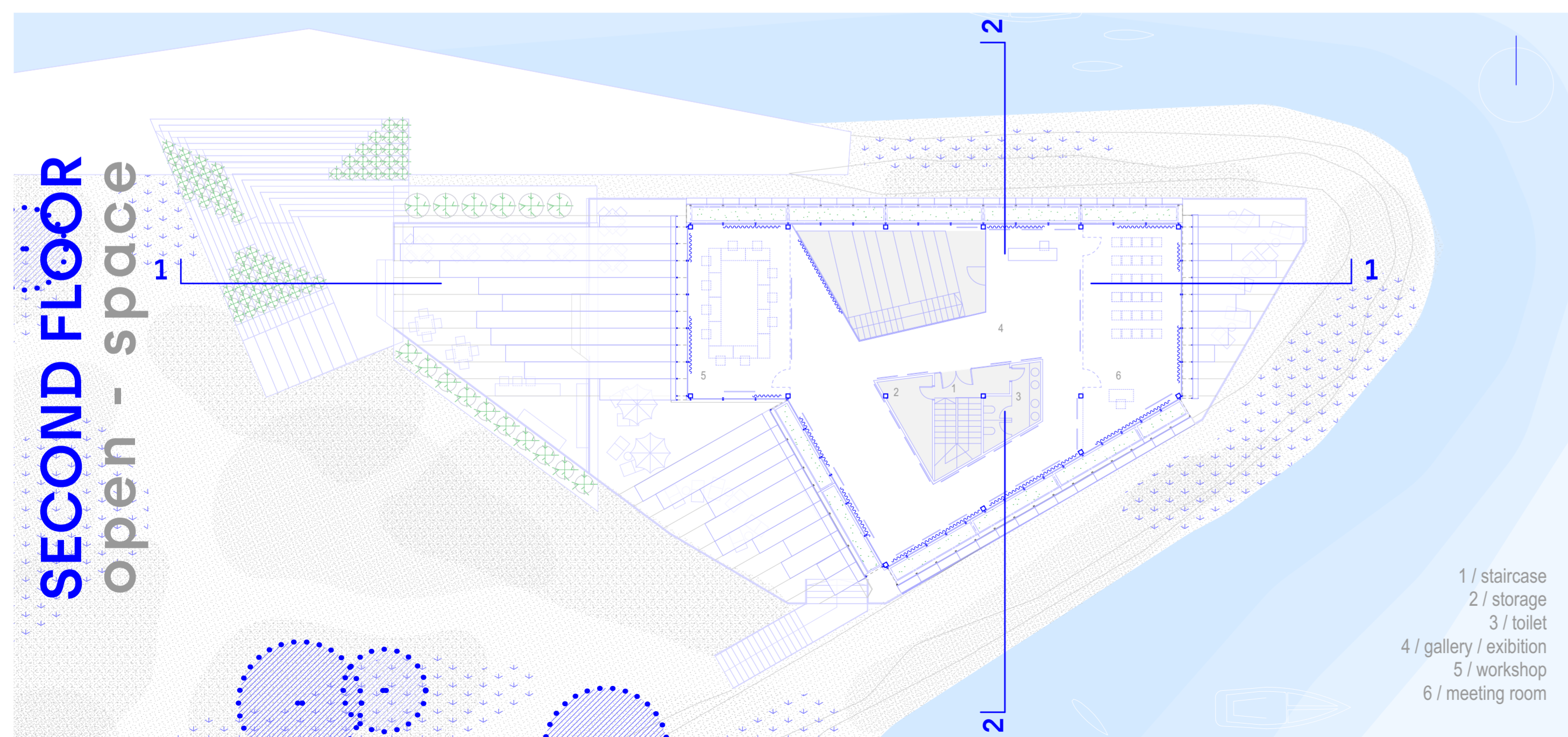
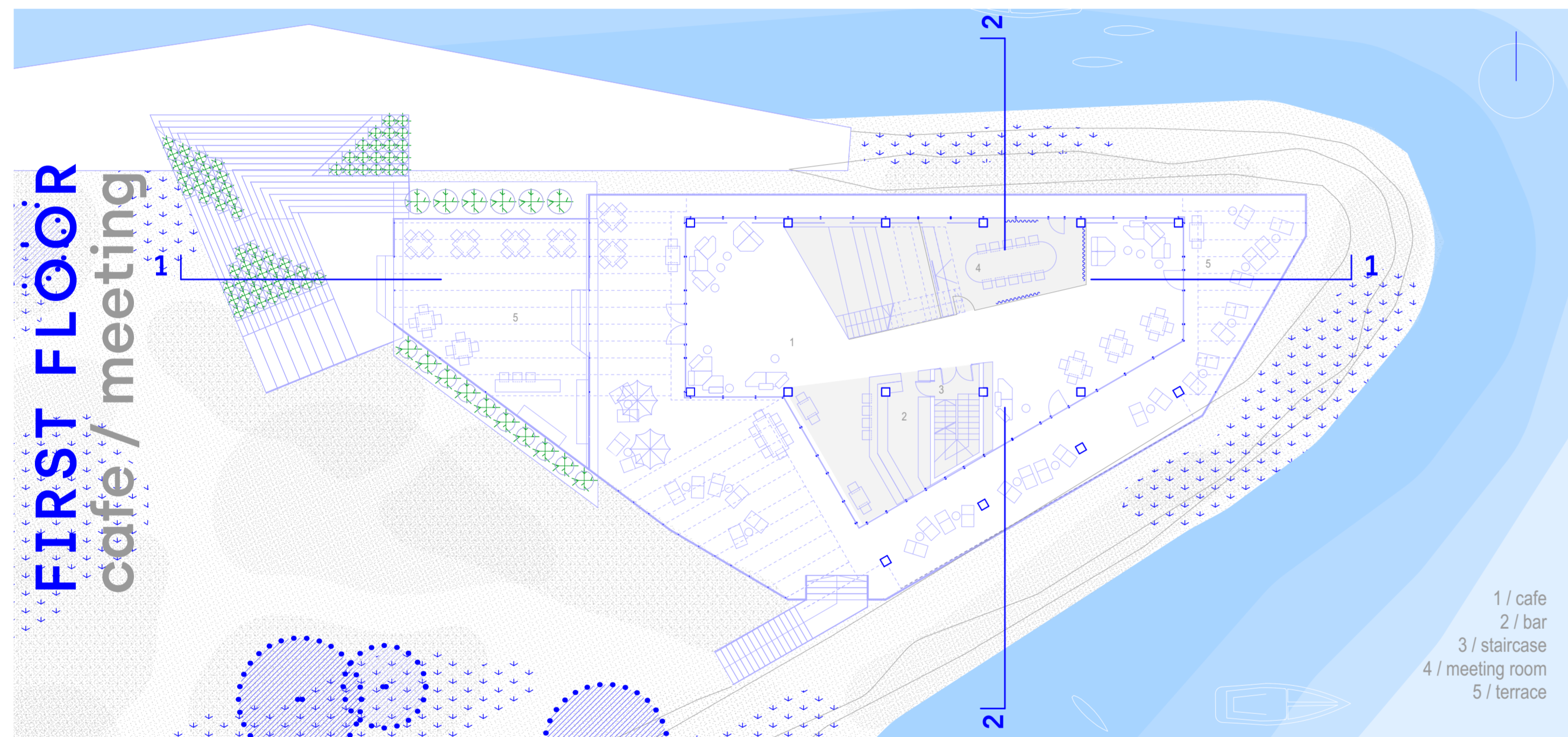
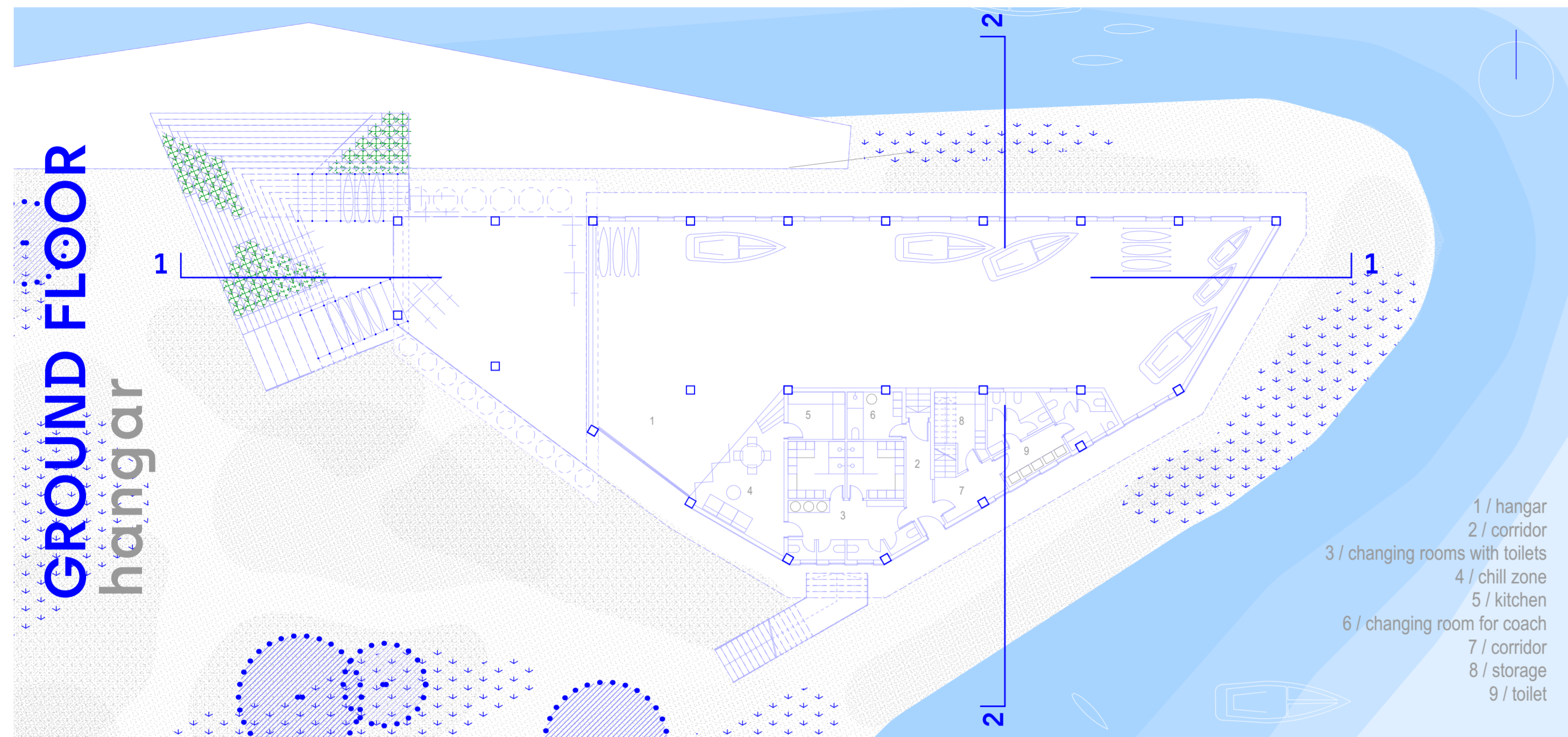
In terms of functional reorganization, the ground floor retains its original program, now reorganized and renewed. These include spaces for coaches and athletes, primarily serving sailing-related activities.

The first floor is repurposed into a café, responding to the site's attractive location. The aim is to create a space that attracts users, offering opportunities for meetings in a dedicated meeting room, as well as enjoyment on the terrace in close connection with nature. This level is further enriched with stepped seating, which can function as a space for sitting, film screenings, or a micro cinema.

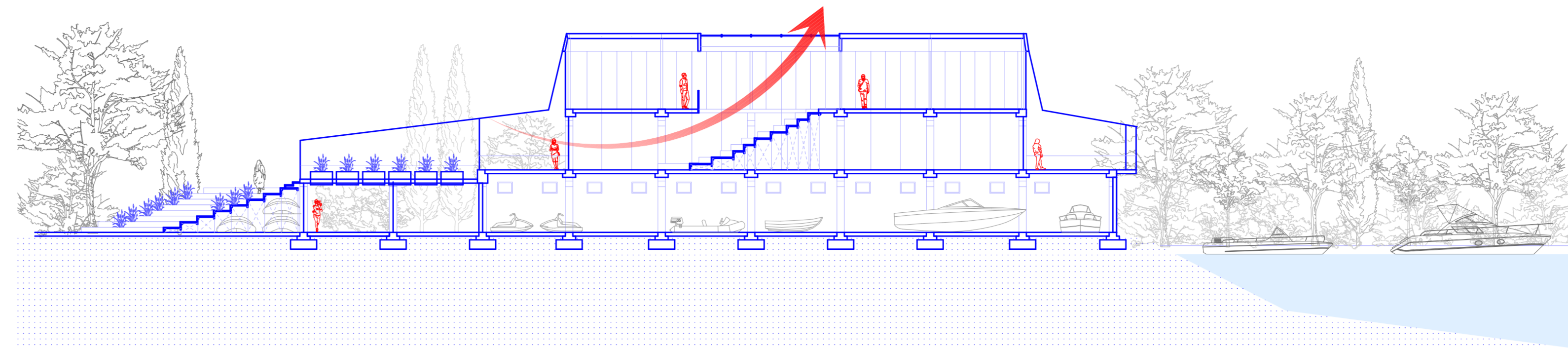
The second floor is conceived as an open-plan space owned by the City of Belgrade, designed as a flexible environment enclosed by an energy-efficient façade integrated with greenery. The intention is to create a space fully immersed in vegetation. Through the use of movable partition panels, the space can adapt to different functions, such as a gallery, workshop area, office space, meeting room, or small conference venue.

Considering the existing volumetry of the building, the intention was to preserve it, particularly the roof slopes. As the building establishes a stronger connection with the ground level through expanded terraces and gradual elevation, a system of shading elements is introduced, continuing from the façade onto the terraces. This gesture provides solar protection while evoking the imagery of sails, creating an atmosphere where the café terrace resembles the deck of a boat.

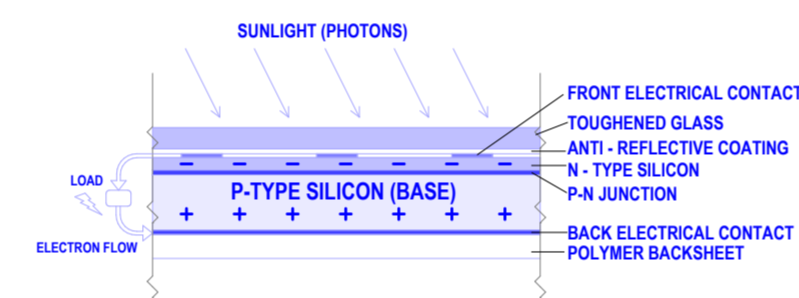
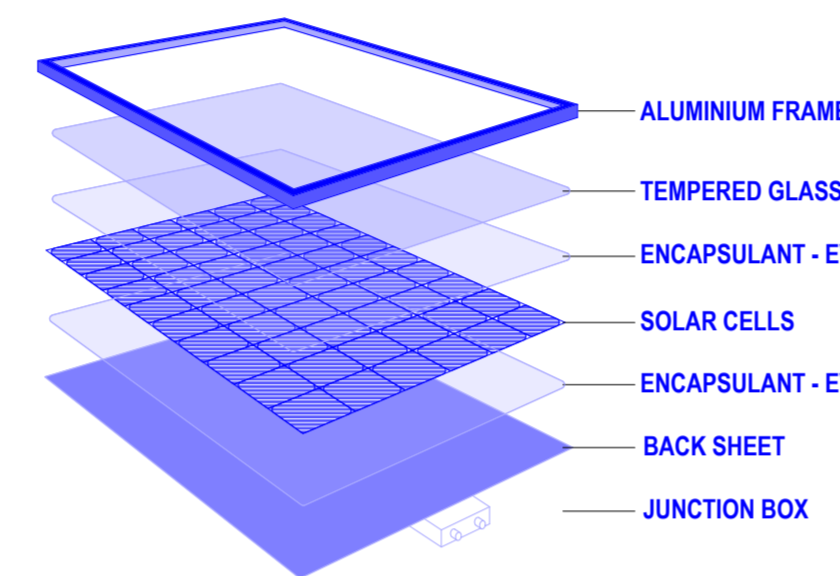
# ZONE B - RENOVATION



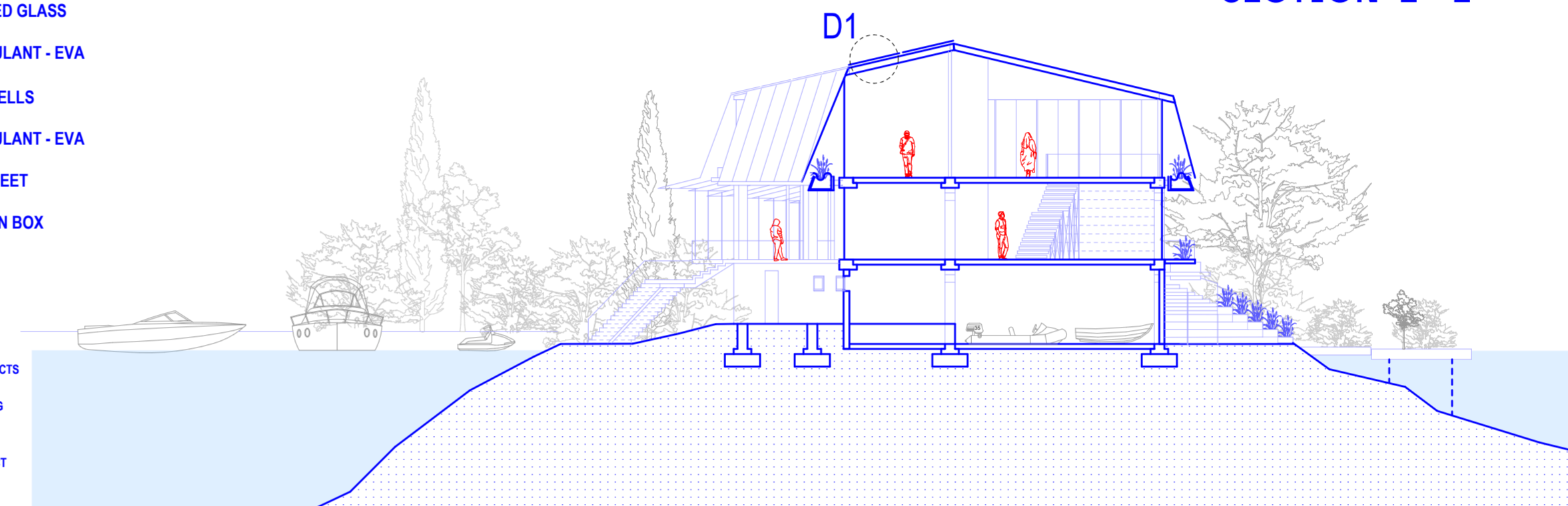
SECTION 1 - 1



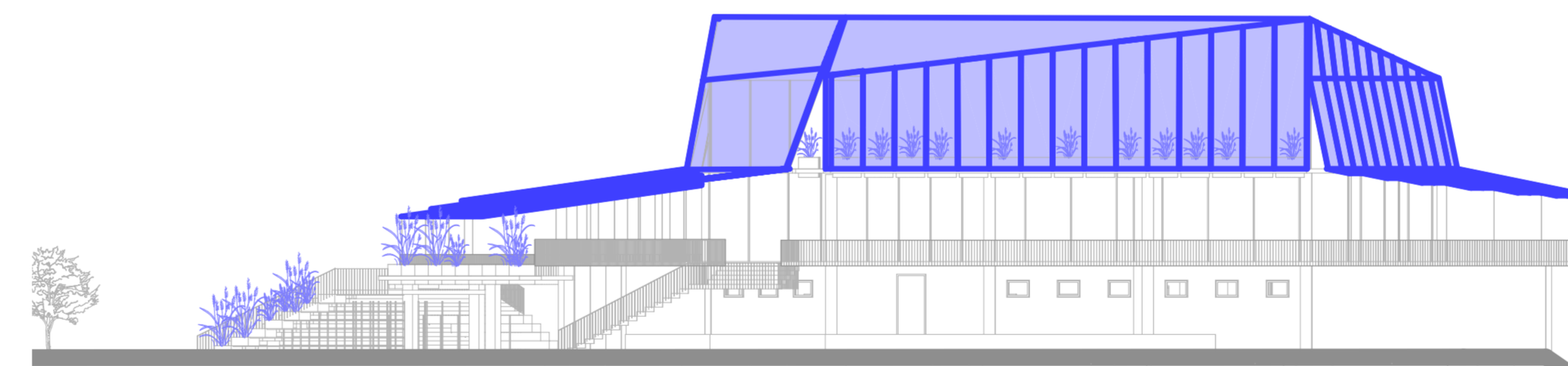
D1 - SOLAR PANELS



SECTION 2 - 2



ELEVATION



ELEVATION

