

ARCHITECTURE

P  RT
F  LI O



GASCU NICULINA

Graduated architect

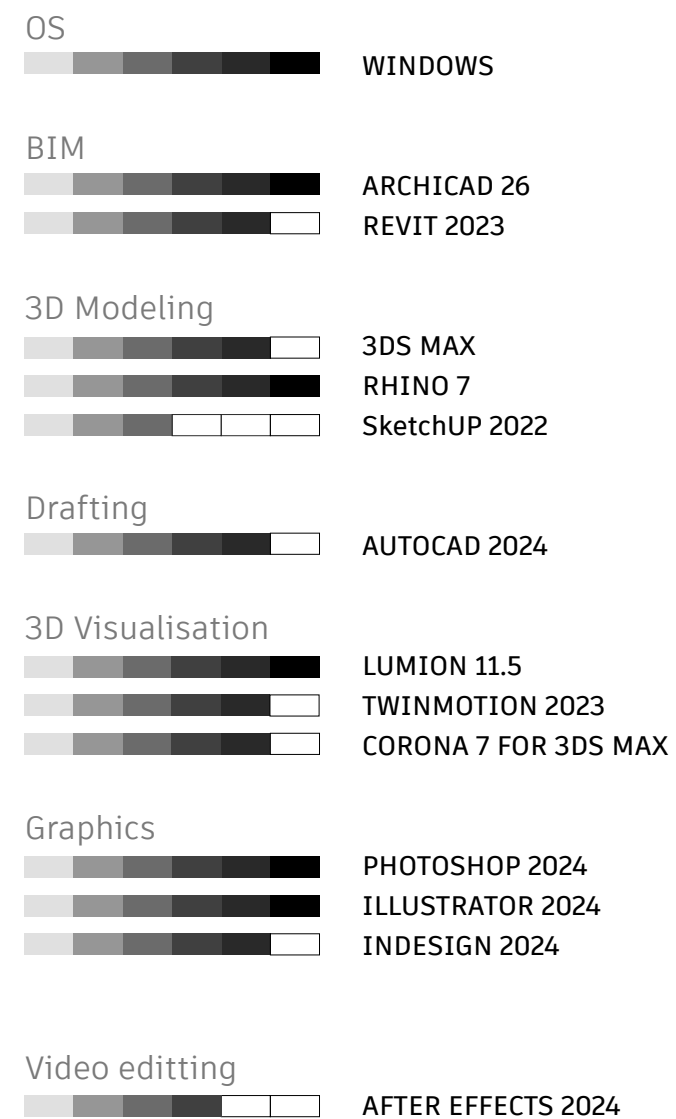
Date of birth: October 07, 1998

Place of birth: Republic of Moldova, Chişinău

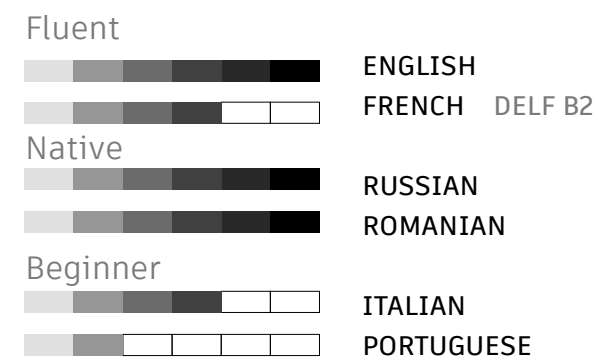
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SOFTWARE SKILLS



LANGUAGES



EDUCATION

2017-2023
Bachelor and Master Degree
Gheorghe Asachi Technical University of Iasi

2019-2020
Erasmus Program
ISCTE- University Institute of Lisbon

2021
Erasmus Program
University of Ferrara

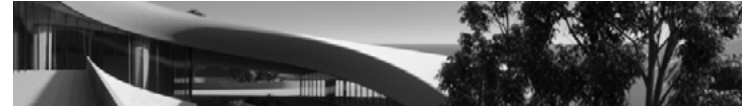
WORK EXPERIENCE

2020-2021
CHISINAU, MOLDOVA
Arhistrat-DECO
Architecture restoration and design of civil and industrial building, interior design

2023-2024
TORINO, ITALY
CRA-Carlo Ratti Associati
Innovation and design firm that investigates the impact of digital technologies on architecture, planning and design

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AGRO-TOURISM

WINERY

This architectural project aims to revolutionize the traditional concept of a winery, shifting the focus from mere industrial productivity to creating a space that fosters experimentation and integration in the wine production process. By reimagining the classic winery, we aim to provide a unique, immersive experience that blends production and tourism seamlessly. Tourism is rapidly growing in the Republic of Moldova, with wine being one of the country's most celebrated attractions. Moldova's rich history and strong identity are deeply intertwined with its wine-making traditions. This project seeks to enhance tourist interest by transforming the way winery spaces are designed, making them more engaging and educational.

The core concept of this project is to intersect production flows with visitor flows, allowing guests to experience the entire winemaking process firsthand. By integrating these flows, we offer a comprehensive journey from grape to glass, where visitors can observe, learn, and participate in the various stages of winemaking. Sustainability is a fundamental principle of this project, emphasized through both the materials used and the innovative industrial processes implemented.

This project prioritizes eco-friendly and locally sourced materials, ensuring the construction and operation of the winery are environmentally responsible. Inspired by traditional winemaking methods, the design

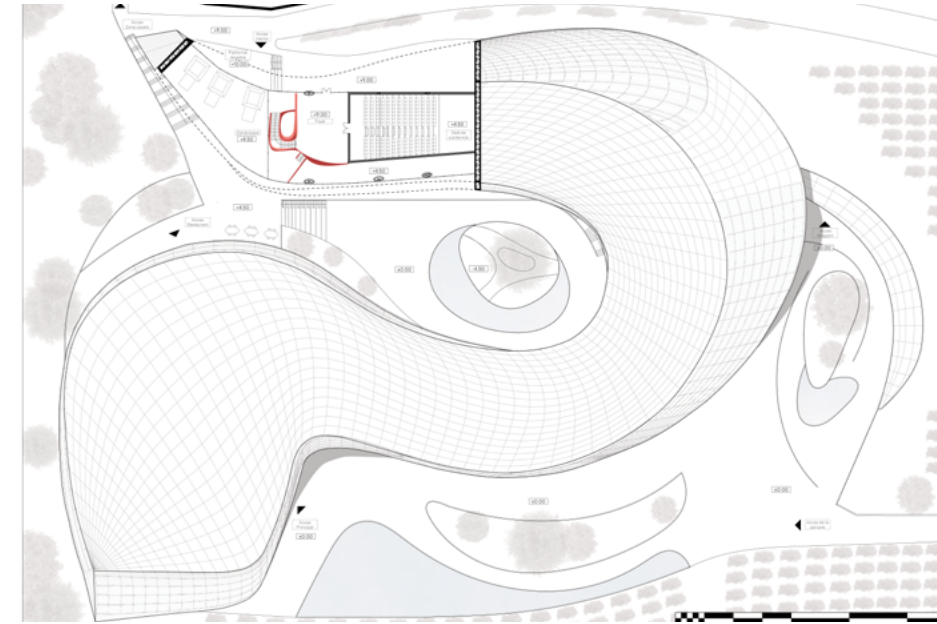
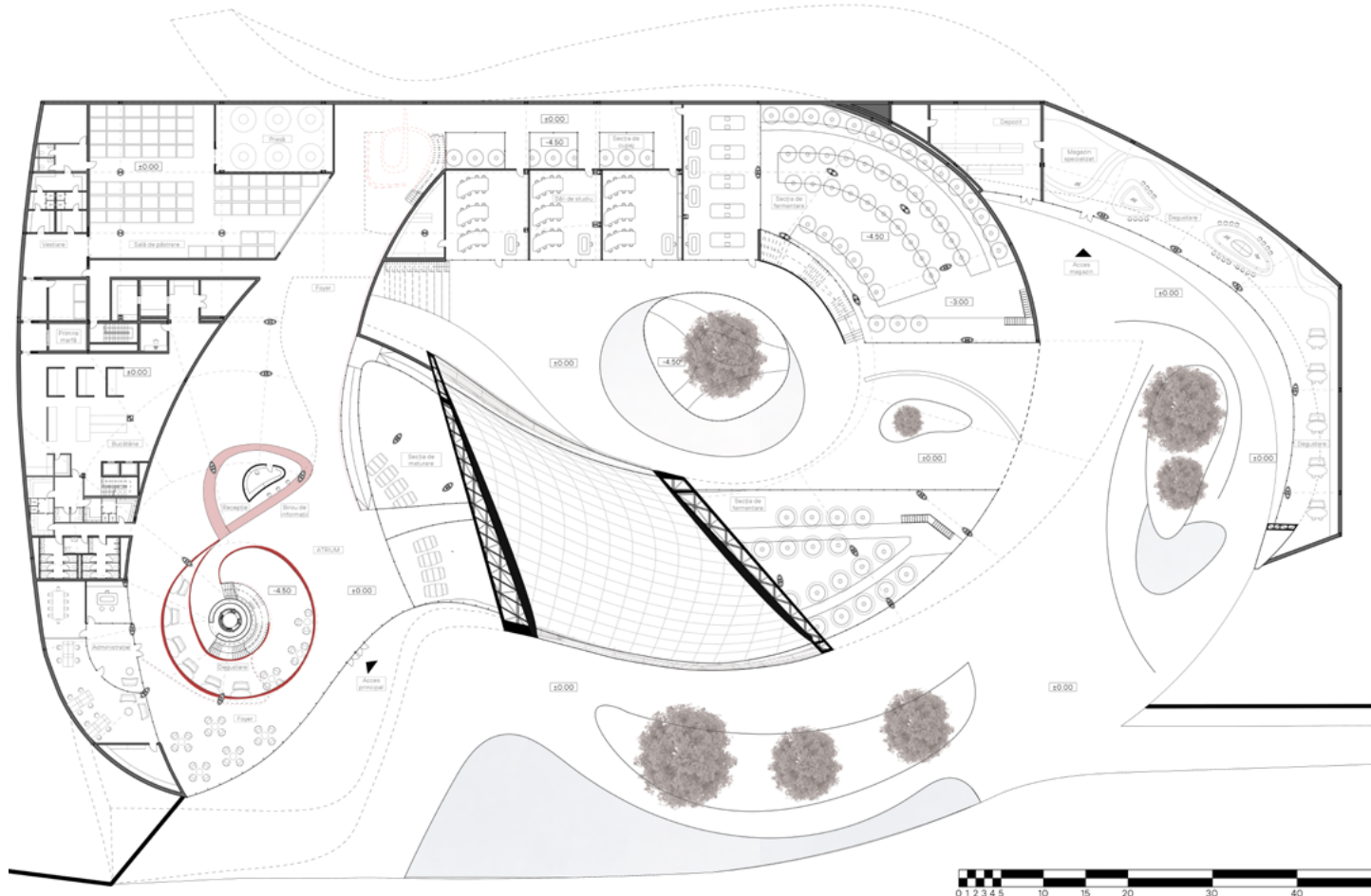
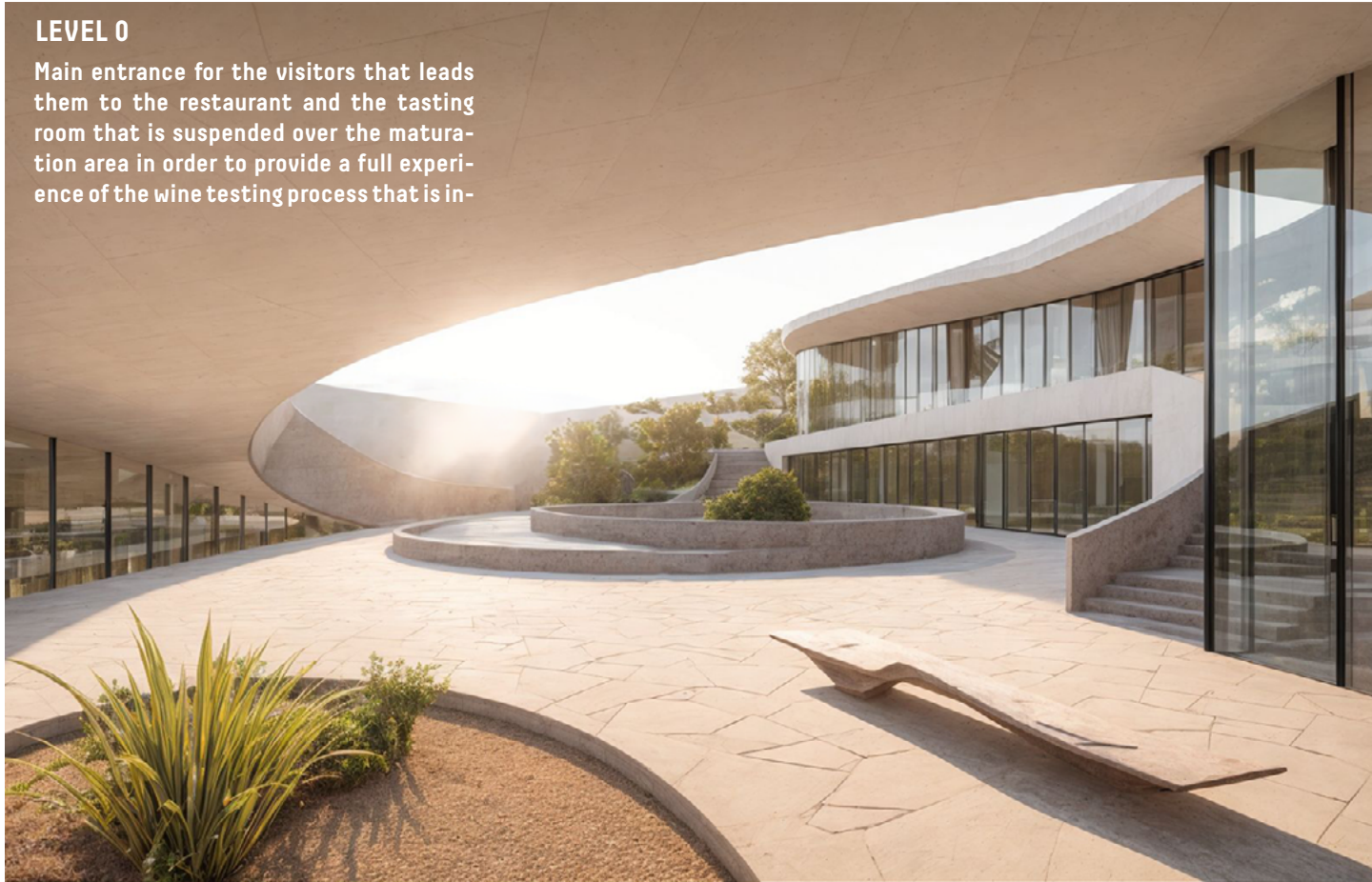
utilizes gravitational flow, minimizing energy consumption and enhancing efficiency. The organization of spaces and the incorporation of a recovery ventilation system are meticulously planned to conserve energy, following a sustainable approach throughout the complex.

The spatial organization of the winery is designed to maximize both production efficiency and visitor engagement. Visitors can observe the winemaking process in real-time, gaining a deeper understanding of the craft. Dedicated spaces allow guests to taste and experiment with different wines, enhancing their appreciation and knowledge. Carefully designed pathways guide visitors through the production areas, ensuring a seamless and informative journey.



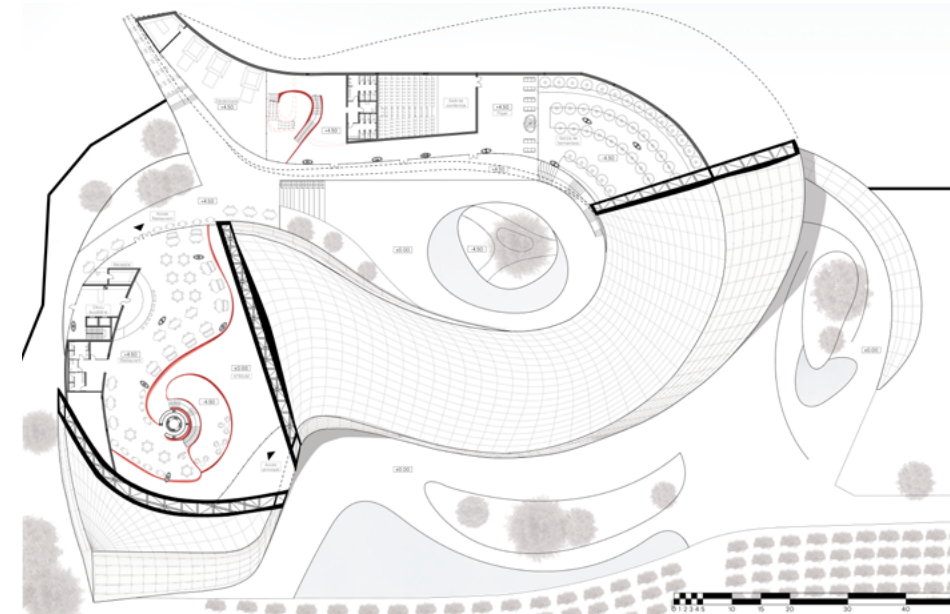
LEVEL 0

Main entrance for the visitors that leads them to the restaurant and the tasting room that is suspended over the maturation area in order to provide a full experience of the wine testing process that is in-



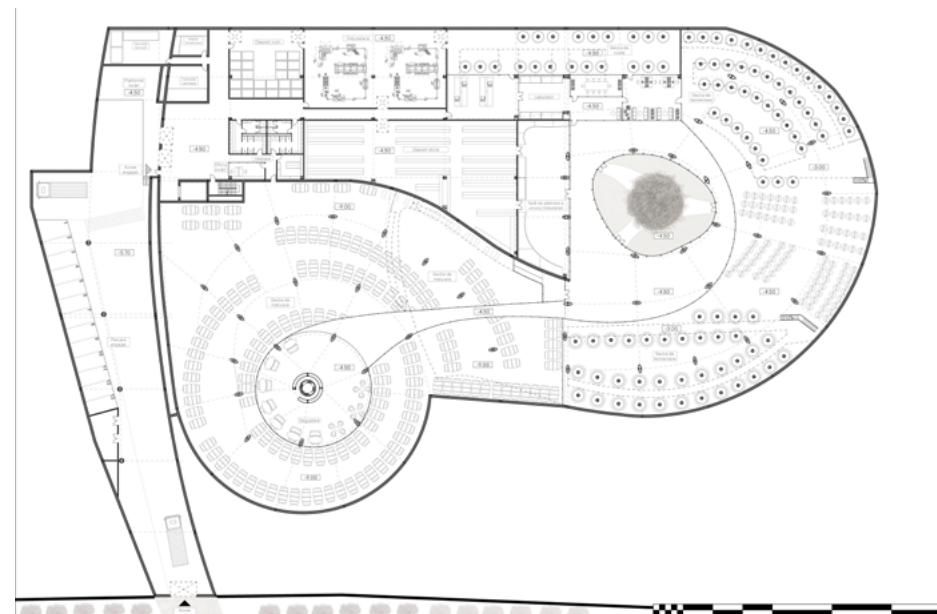
LEVEL +2

The receiving sector is located in the most elevated floor. This process can be experienced by the visitors who have to be part of a conference in the auditorium. This area gives a perspective over the vineyard and so the experience can be full.



LEVEL +1

This floor is mainly dedicated to the visitors experience giving the opportunity to experience the restaurant that opens to the vineyard and the forest and that has a direct connection with the accommodation located in the forest above the winery.



LEVEL -1

The production area is mostly organised at this floor in order to follow the gravitational flow of the production. The fermentation section is linked to a research and lab area that provides the possibility to check and invent new wine types.



URBAN CENTRE

BUSINESS AND CONGRESS HALL

The envisioned business center with a congress hall is situated in a prime urban locale, designed to seamlessly integrate professional and environmental ethos. The architectural concept centers on the fusion of functionality and sustainability, crafting a vibrant space where commerce, collaboration, and nature coalesce.

The design features a sleek, modern aesthetic, with clean lines and expansive glass façades that invite natural light into the interiors, reducing the need for artificial lighting and creating an open, airy ambiance. The congress hall, the heart of the complex, is a versatile space equipped with state-of-the-art technology, capable of hosting large conferences,

exhibitions, and seminars.

Its flexible design allows for reconfiguration, accommodating a variety of event sizes and formats. Surrounding the hall are modular meeting rooms and workspaces, providing quiet zones for focused tasks and collaborative areas for team activities. Sustainability is a core principle of this project. The building employs cutting-edge green technologies, including photovoltaic panels, rainwater harvesting systems.

These features significantly reduce the building's carbon footprint, contributing to a more sustainable urban environment. Green roofs not only enhance insulation but also introduce

greenery into the urban fabric, improving air quality and offering a visual respite from the city's concrete landscape.

The integration of small green areas throughout the complex creates a series of urban oases. Pocket parks, rooftop gardens, and interior courtyards are strategically placed to provide natural retreats for visitors and occupants, promoting well-being and encouraging outdoor interaction. These green spaces are designed with native plant species, requiring minimal maintenance and supporting local biodiversity.

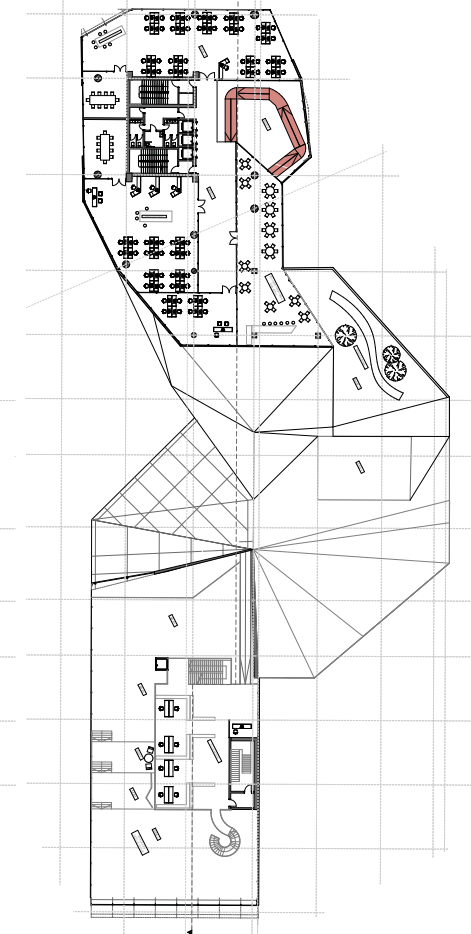
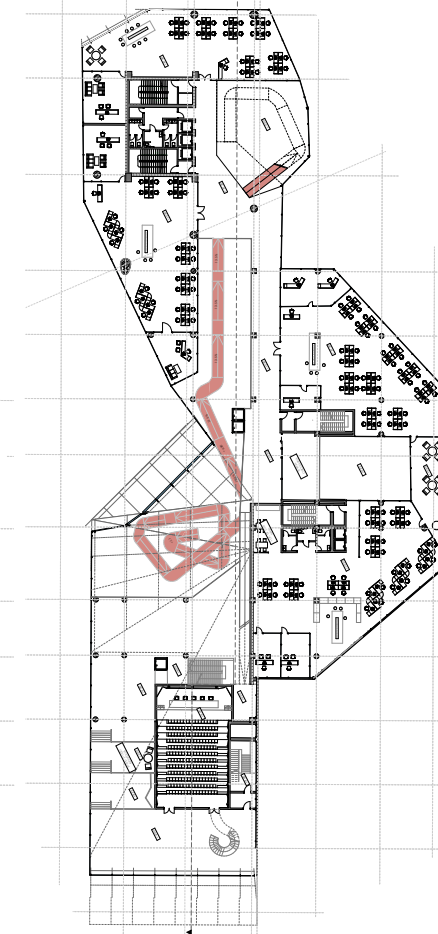
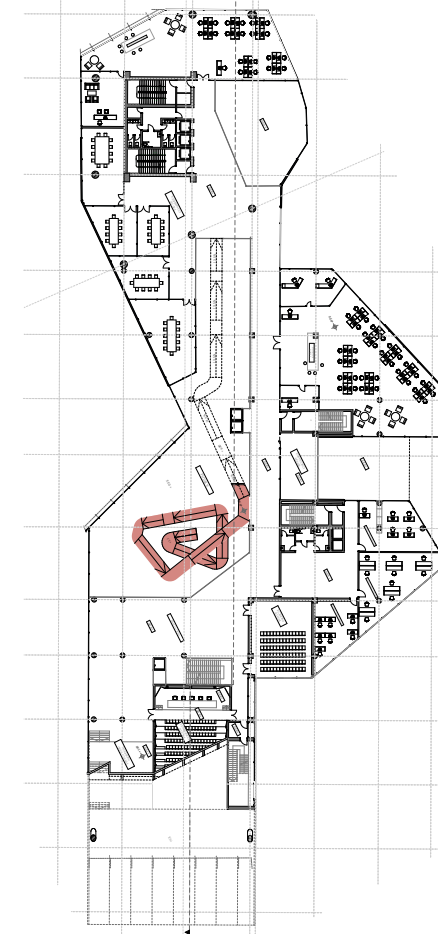
This business center and congress hall are more than just a venue; it is a forward-thinking ecosystem where business and nature thrive in harmony. The project exemplifies how urban development can meet the demands of modern commerce while fostering environmental stewardship and enhancing urban life quality that tends to bring the community together.



LEVEL +1

LEVEL +2

LEVEL +4



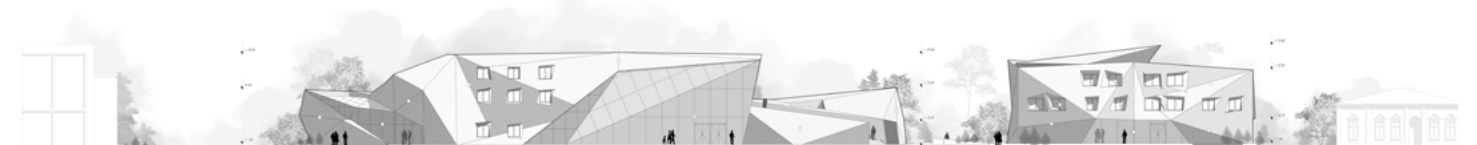
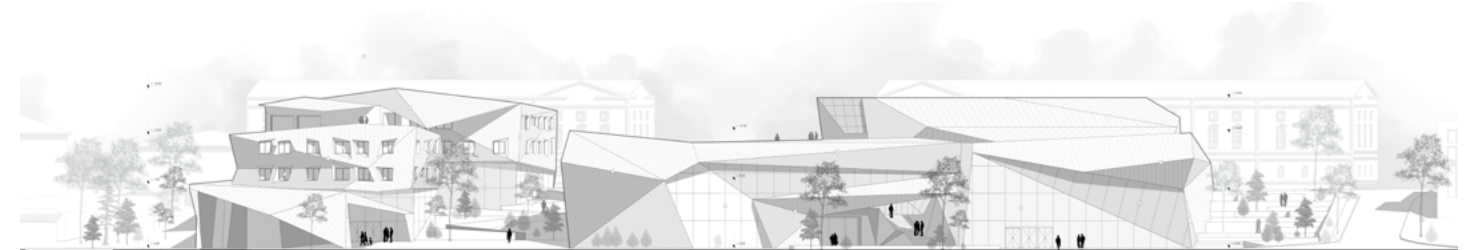
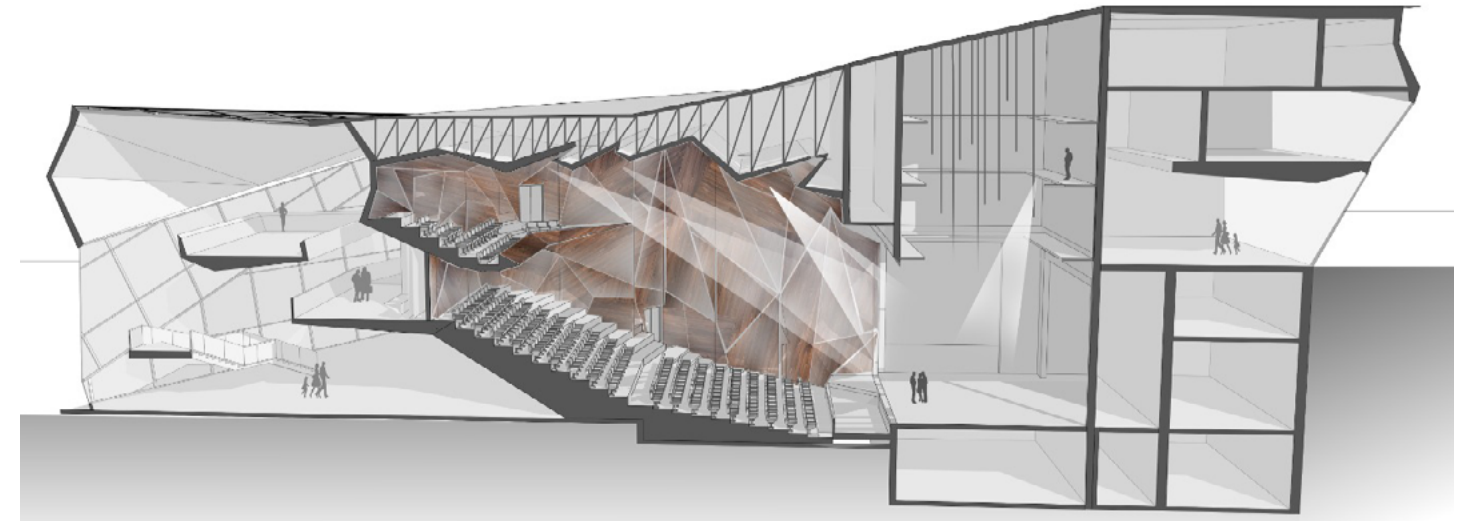
CULTURAL AGGREGATION

EVENT HALL

This cultural center, nestled in a historic district, serves as a dynamic bridge between the bustling tourist area and a serene residential neighborhood. Designed to harmonize with the sloped terrain, the architecture seamlessly integrates with the natural topography, creating a visually engaging and accessible environment for those that have to cross the area.

At the heart of the center is a spacious event hall, capable of hosting a diverse range of cultural activities, from art exhibitions and theatrical performances to community gatherings and concerts. The hall's flexible design, equipped with modern acoustics and lighting, ensures an immersive experience for all attendees.

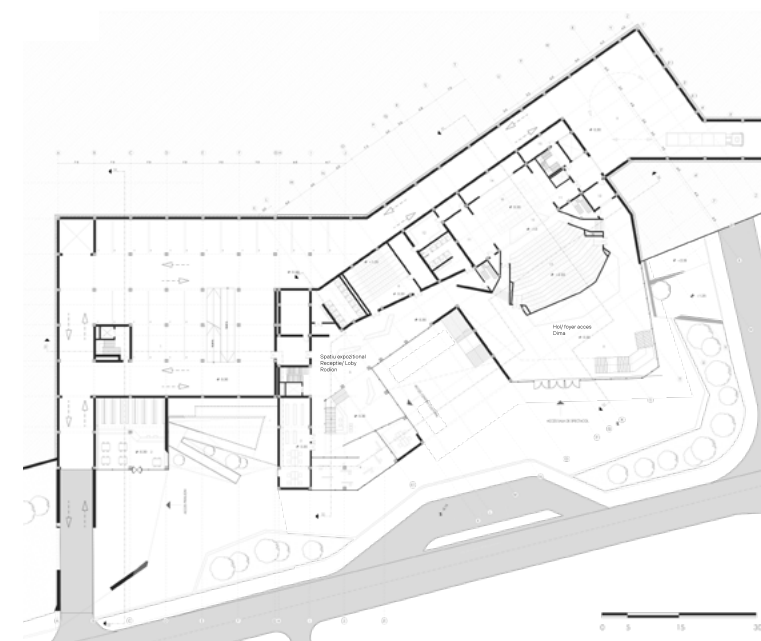
The exterior wanted to reflect a new contemporary identity, while large glass panels offer glimpses of the vibrant interior and panoramic views of the surrounding cityscape. Terraced pathways and ramps ensure smooth transitions between different levels, making the entire site navigable and inviting.





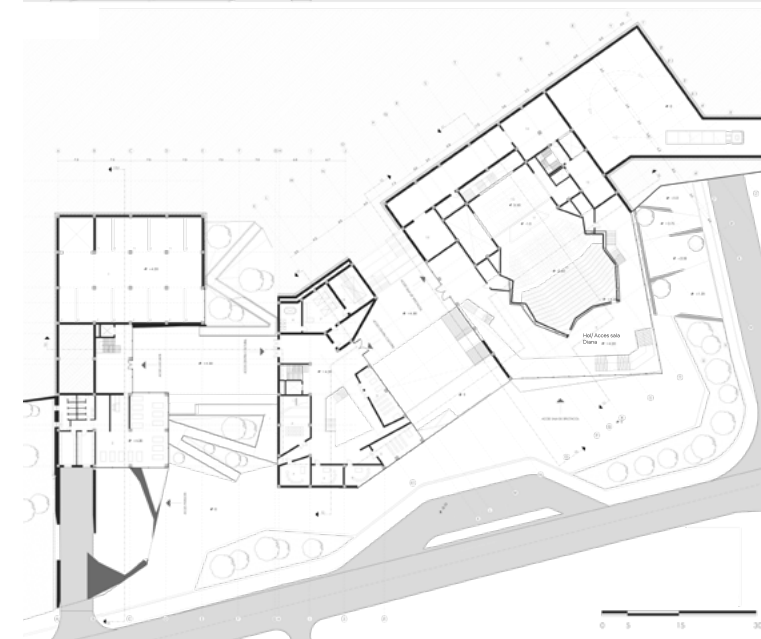
GROUND FLOOR

1. Parking
2. Book-shop
3. Library
4. Art gallery
5. Temporary expo area
6. Delivery point
7. Lobby and reception
8. Foyer
9. Auditorium
10. Projection room



LEVEL +1

1. Parking
2. Gym
3. Music rehearsal room
4. Individual rehearsal room
5. Arts workshop room
6. Foyer
7. Auditorium
8. Scene
9. Depot



LEVEL +2

1. Restaurant
2. Offices
3. Actors residence
4. Individual rehearsal room
5. Music rehearsal room
6. Dramatic acting workshop
7. Cafeteria
8. Auditorium
9. Ticket office



CITY IN SPACE

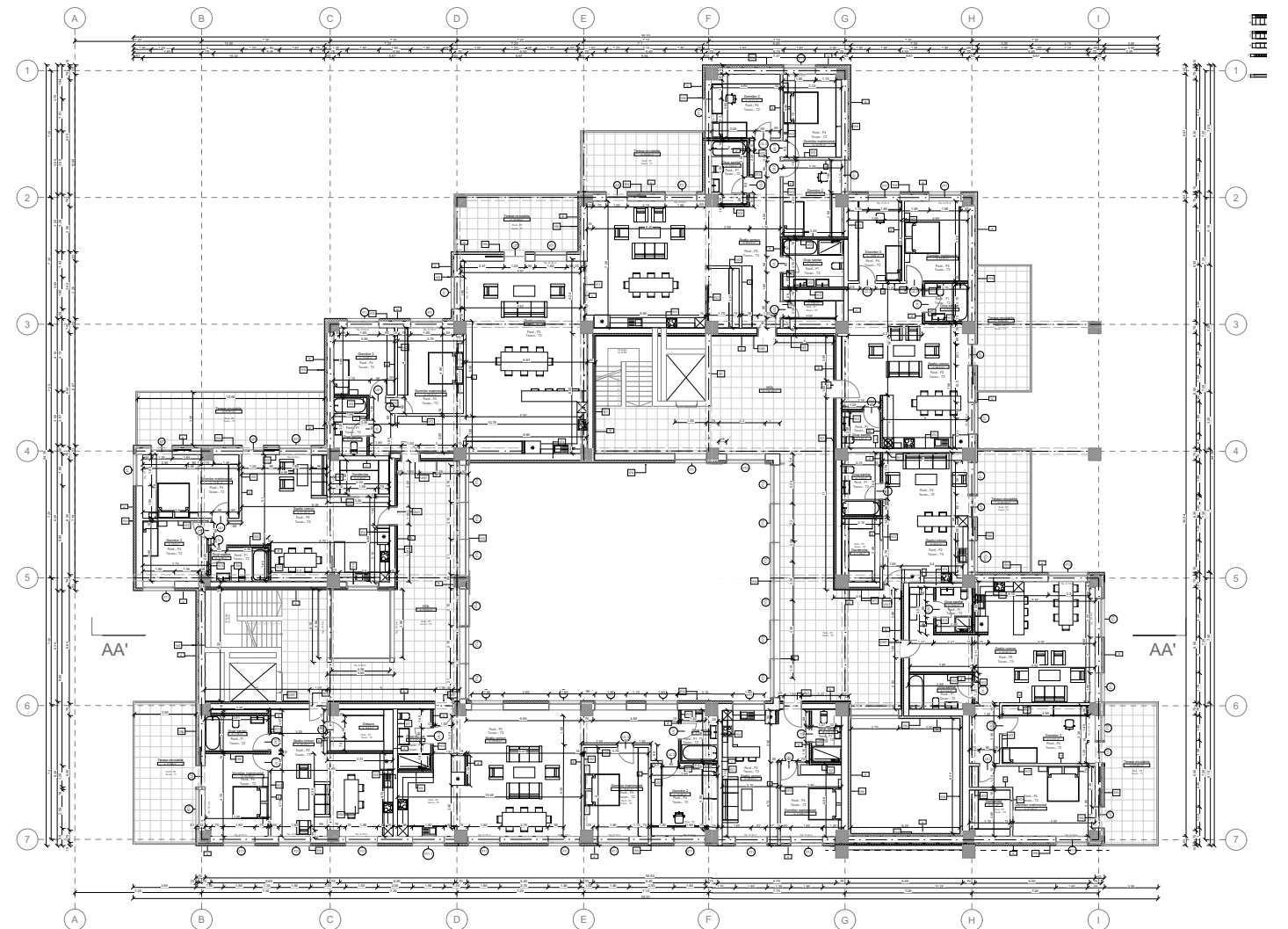
RE(SIDENTIAL)SOCIALISE

This innovative residential building, situated in a vibrant city neighborhood, showcases a pioneering approach with its modular apartment design. Each prefabricated module is thoughtfully organized across various levels, considering diverse aspects such as privacy, sunlight, and views, creating a harmonious living environment. The layout prioritizes tenant communication and community engagement.

Central communal areas and strategically placed shared spaces encourage interaction among residents, fostering a sense of community.

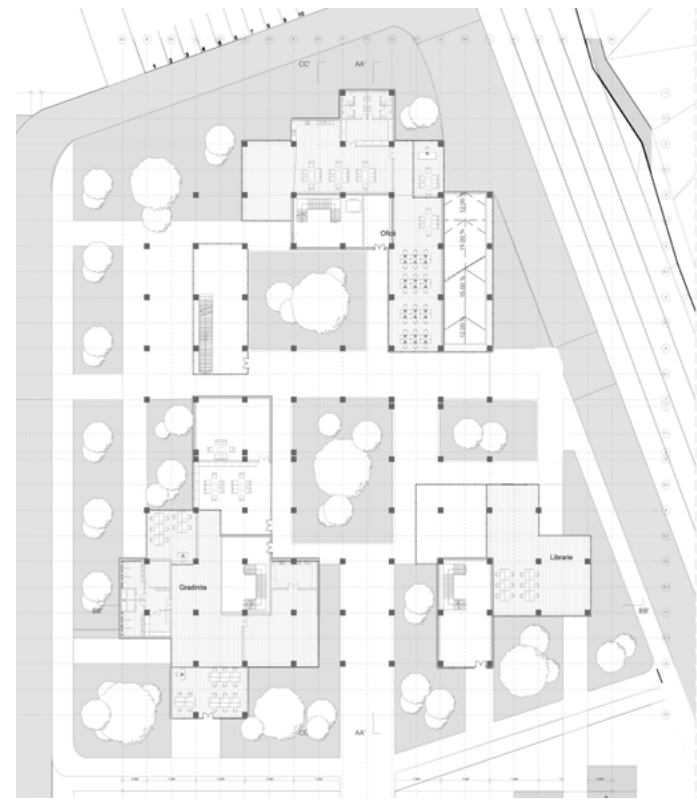
Special rooms for working from home are integrated throughout the building, providing quiet, dedicated spaces for remote work, reflecting the modern need for flexibility. The prefabricated modules offer numerous configurations, accommodating

different lifestyles and family sizes. This modular approach ensures efficient construction, high-quality control, and the ability to customize units to meet individual needs. Large windows and open-plan interiors enhance natural light and ventilation, contributing to a healthy, comfortable living space. Shared amenities include a rooftop garden, fitness center, and multipurpose communal rooms, designed to enhance the quality of life for all residents. Sustainable practices are embedded in the design, with energy-efficient systems.

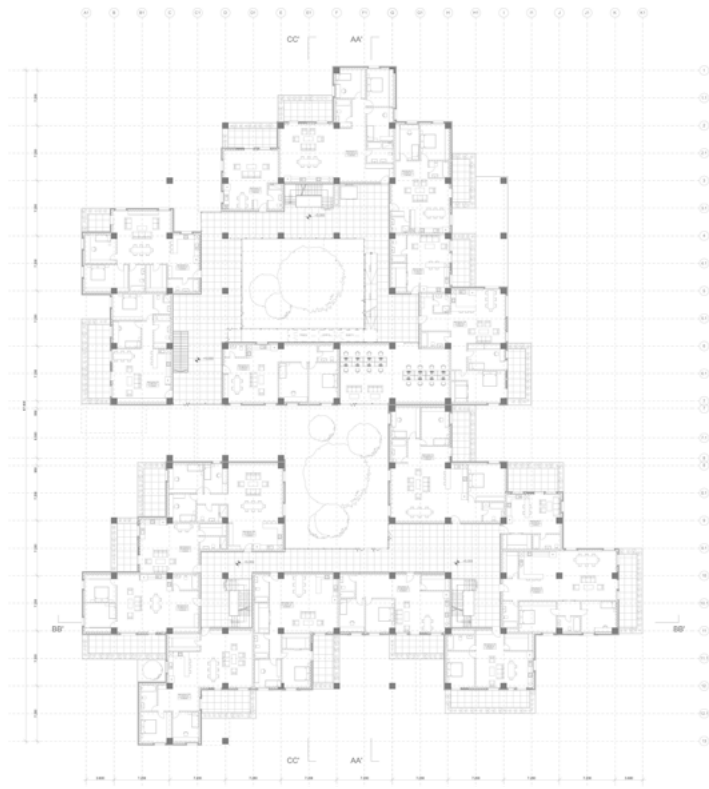




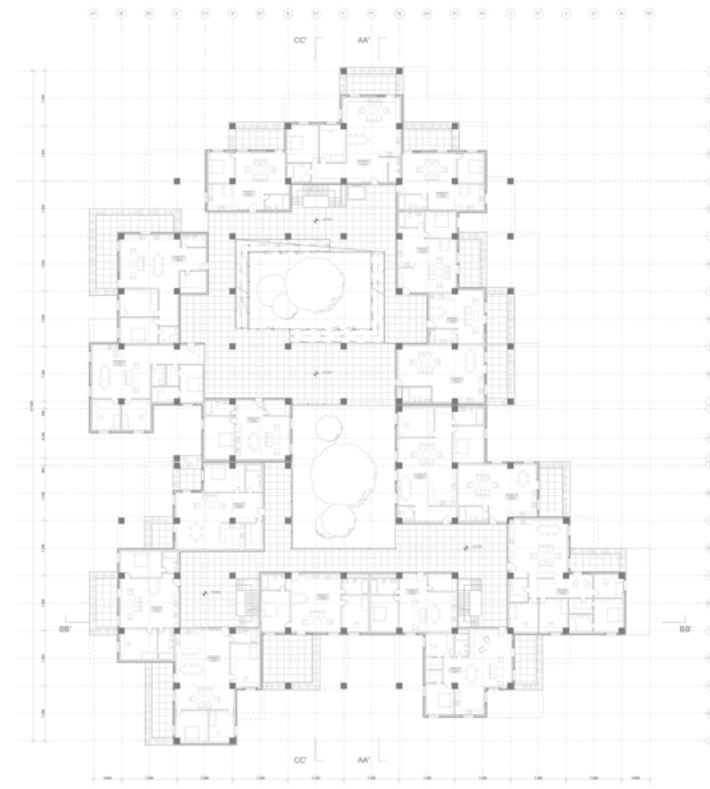
GROUND FLOOR



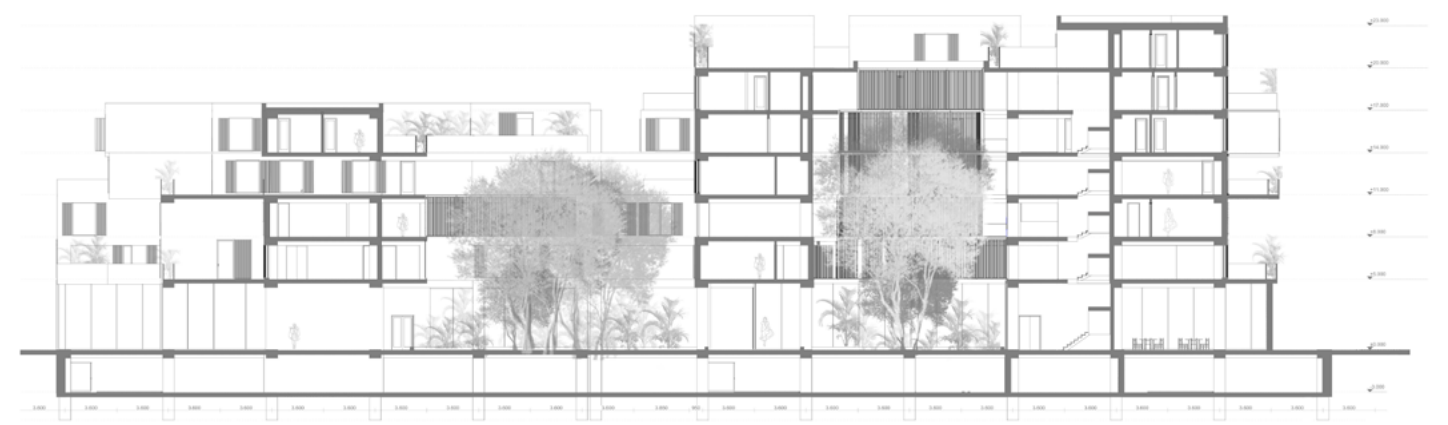
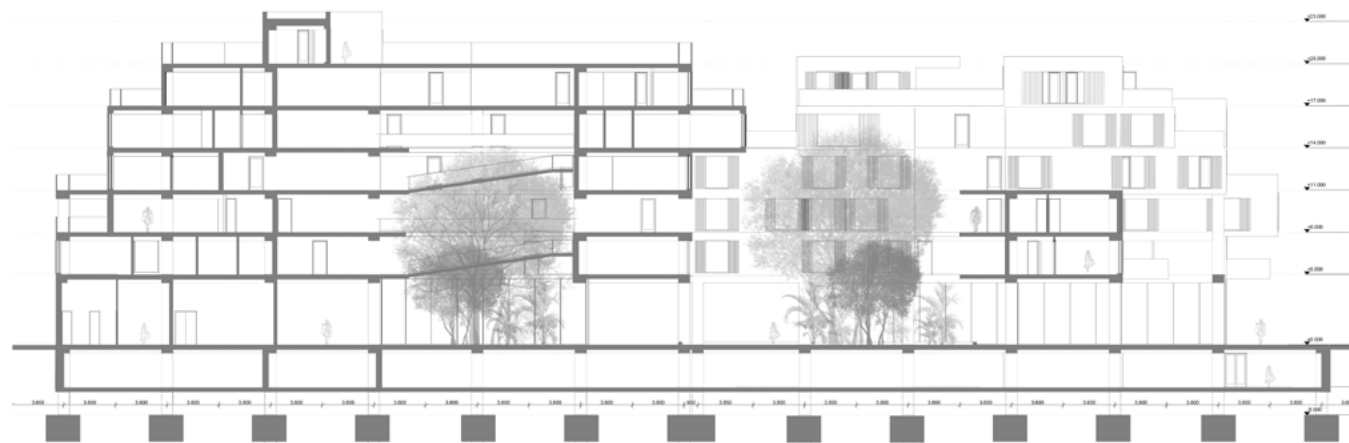
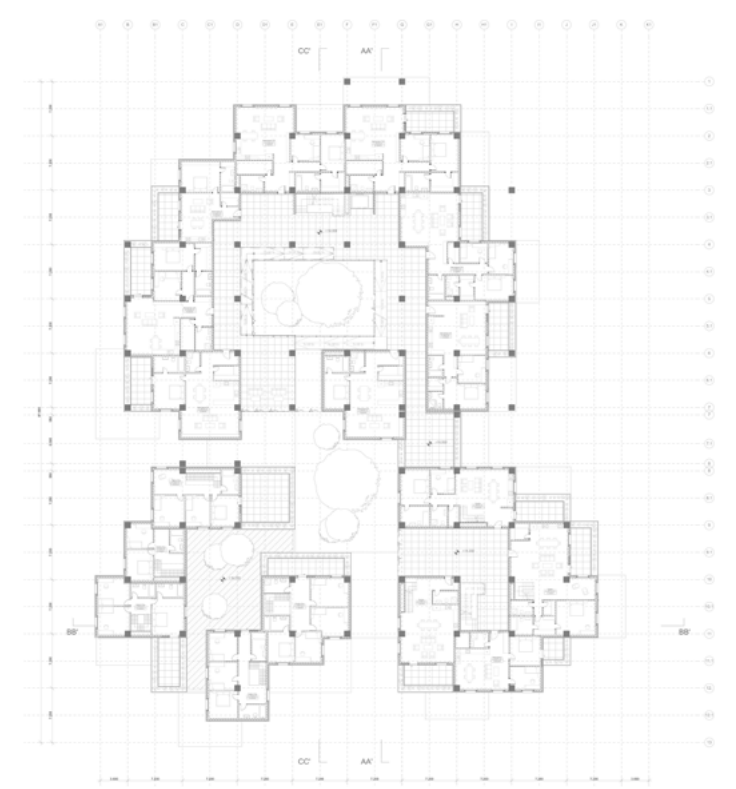
LEVEL +1



LEVEL +3



LEVEL +4



SUNRICE

FUORISALONE- EXPO

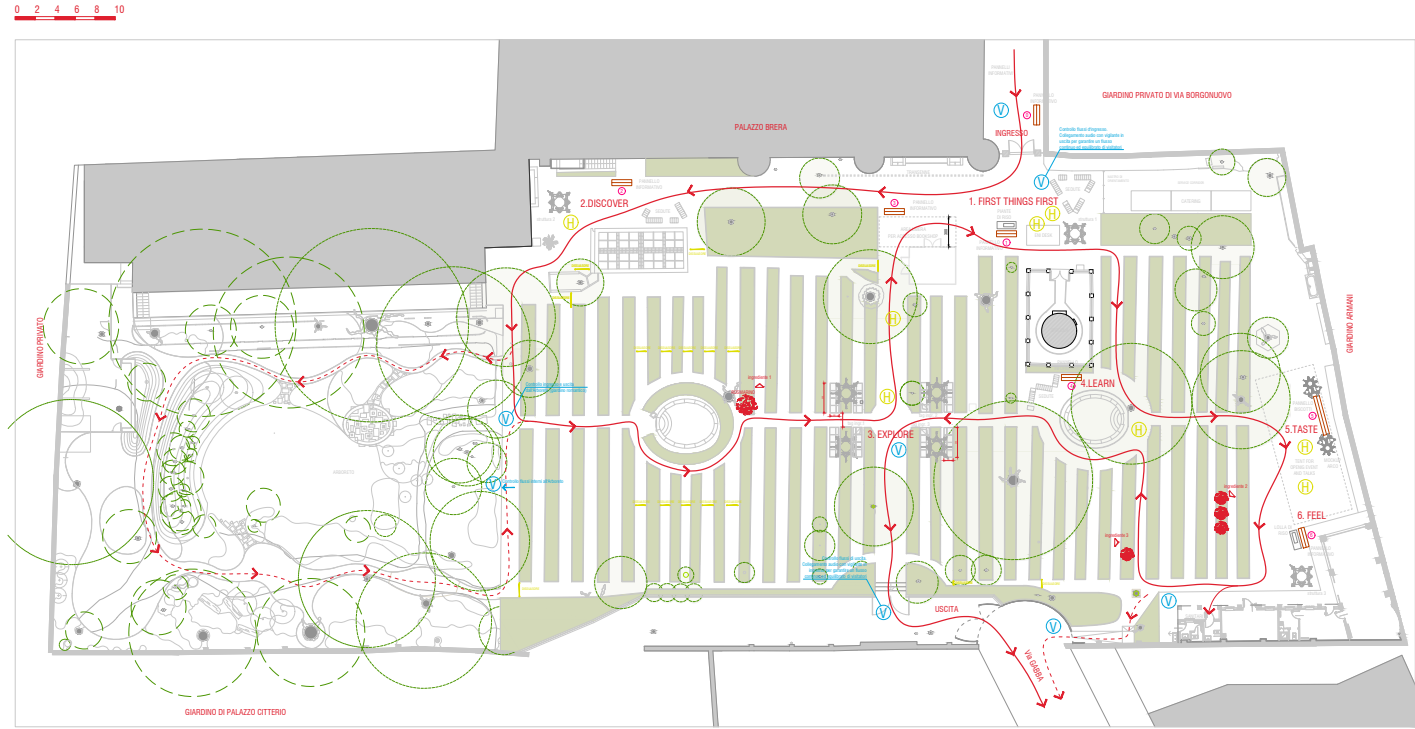
For this year the project design was based on the importance that we accord to the food consumption as source of energy and the attention to product quality and service standards. The SunRice installation transformed the garden into a pathway that allowed visitors to explore the multiple uses of rice – “from food to experimental construction material”.

An experiential journey through the gardens showed how rice transforms from a plant into an ingredient used in cooking before demonstrating how rice waste can become a raw material with architectural applications. Geopolymers promise to offer a more sustainable alternative to concrete that does not rely on emissions-intensive cement as a binder and instead uses industrial

waste streams such as fly ash from coal-fired power plants as silica sources. The material used in SunRice aims to do one better by integrating an abundant agricultural waste product – the husks removed from rice grains as they are prepared for human consumption.

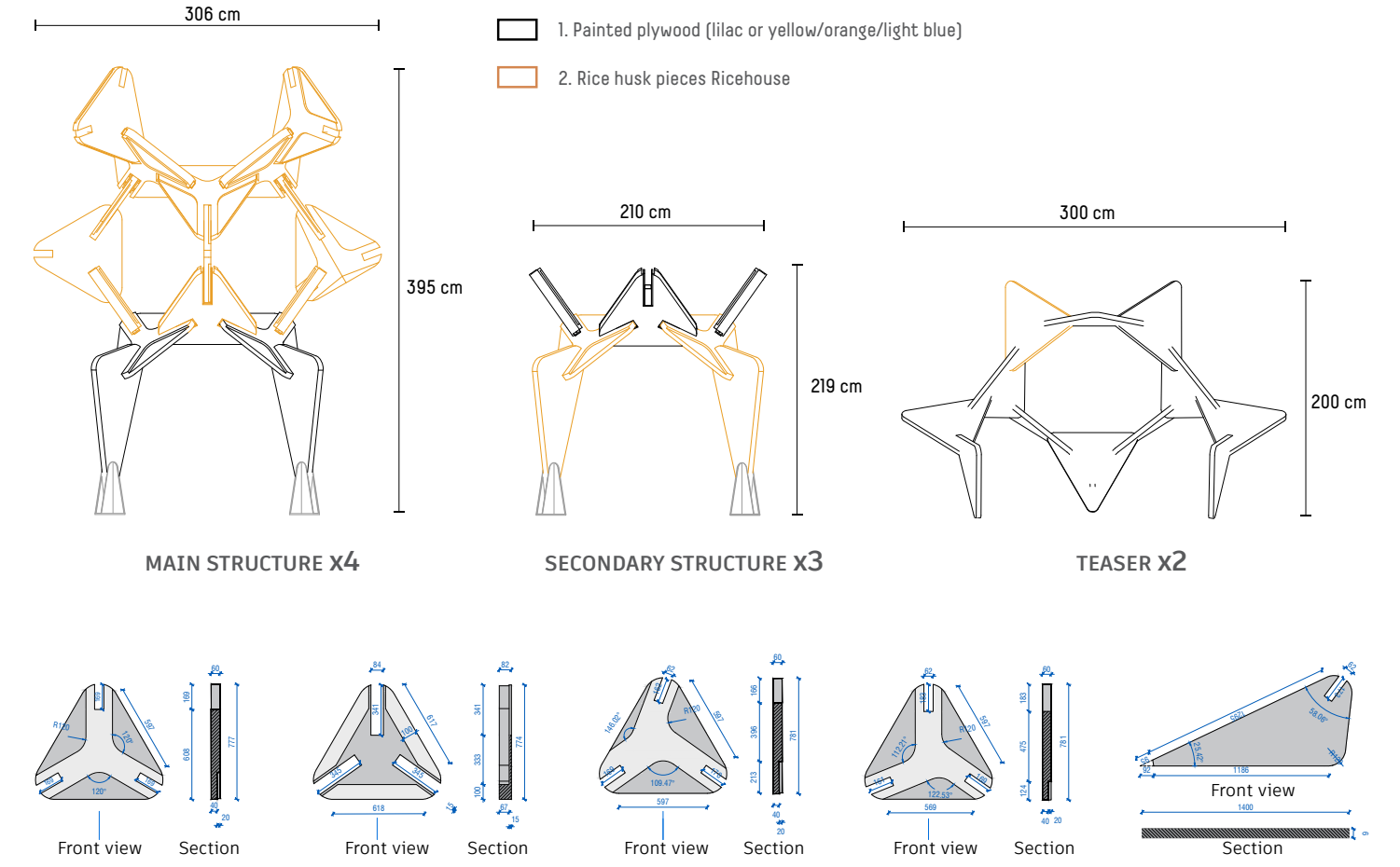


INSTALLATION LAYOUT



- Main path
- Alternative path
- Orientation tape
- Info/panels
- Hostess
- Rice husk blocks seating
- Secondary rice installations

INSTALLATION COMPONENTS



R&D LAB

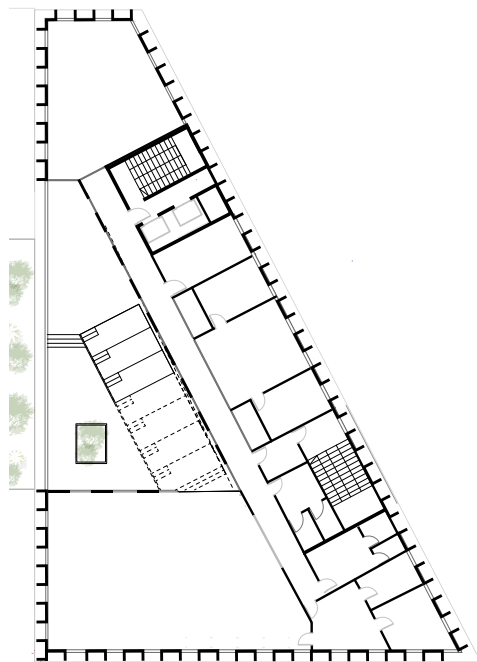
OFFICE BUILDING

The new office for stands as a beacon of modern, sustainable architecture. Designed with the dual objectives of reducing the building's carbon footprint and fostering a collaborative work environment, this project seamlessly integrates advanced construction techniques with cutting-edge office design. Central to the building's sustainability strategy is the use of Cross-Laminated Timber (CLT) and Glued Laminated Timber (Glulam) for its structural framework. These materials are chosen not only for their superior strength and durability but also for their environmental benefits.

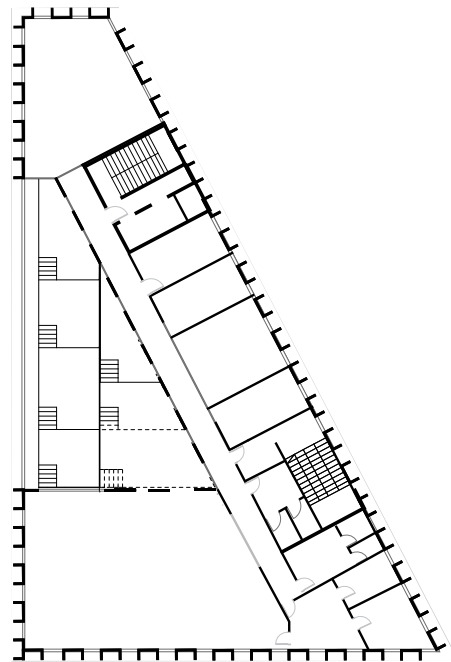
Timber construction significantly reduces CO2 emissions compared to traditional steel and concrete, as wood acts as a carbon sink, storing carbon dioxide absorbed during the trees' growth. By utilizing CLT and Glulam, the project underscores a commitment to eco-friendly building practices and reduces its overall environmental impact. The architectural design prioritizes energy efficiency to further minimize the building's carbon footprint. Advanced insulation techniques, energy-efficient glazing systems are integrated to ensure optimal thermal performance.

The design fosters a sense of openness and fluidity, with workspaces that can adapt to various needs. Natural light floods the interiors, creating a bright and inviting atmosphere that enhances employee well-being and efficiency. The open layout encourages interaction and the free exchange of ideas, promoting a culture of innovation and teamwork. At the heart of the office lies the central agora, an expansive and dynamic space designed for informal working and meeting. This central hub is more than just a communal area; it is a versatile space that supports a variety of activities, from casual brainstorming sessions to larger team gatherings. The agora incorporates comfortable seating, flexible workstations, and green elements, creating a vibrant environment that inspires creativity and collaboration. By blending work and social spaces, the agora fosters a sense of community and belonging among employees.

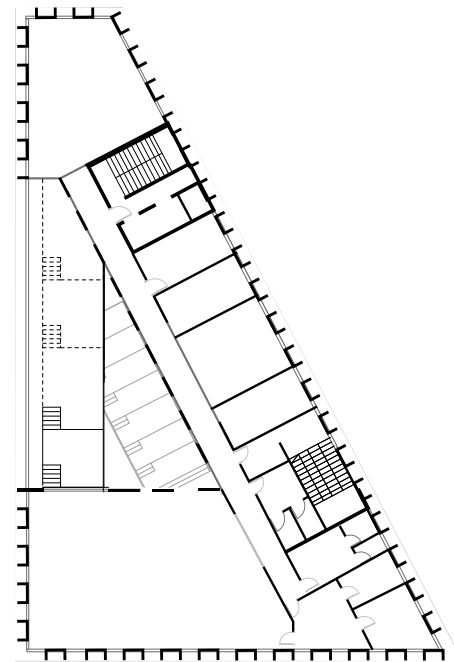




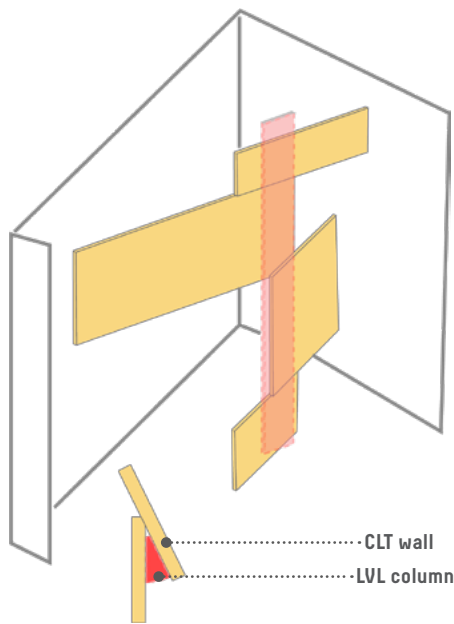
GROUND FLOOR



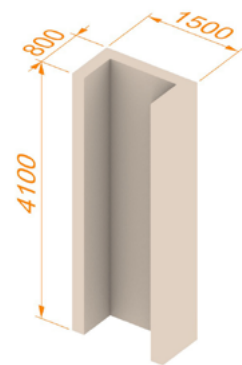
LEVEL +1



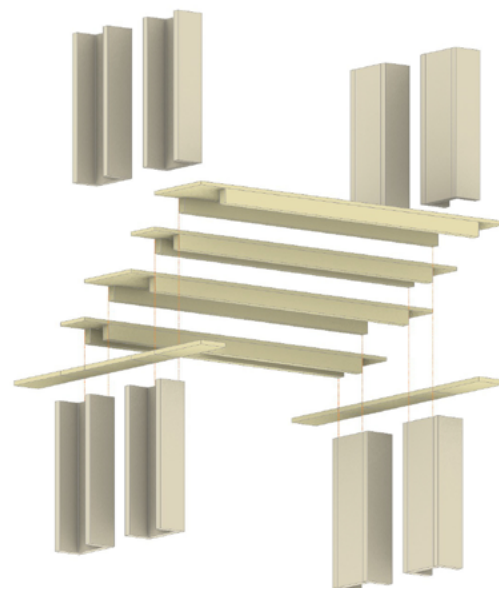
LEVEL +2



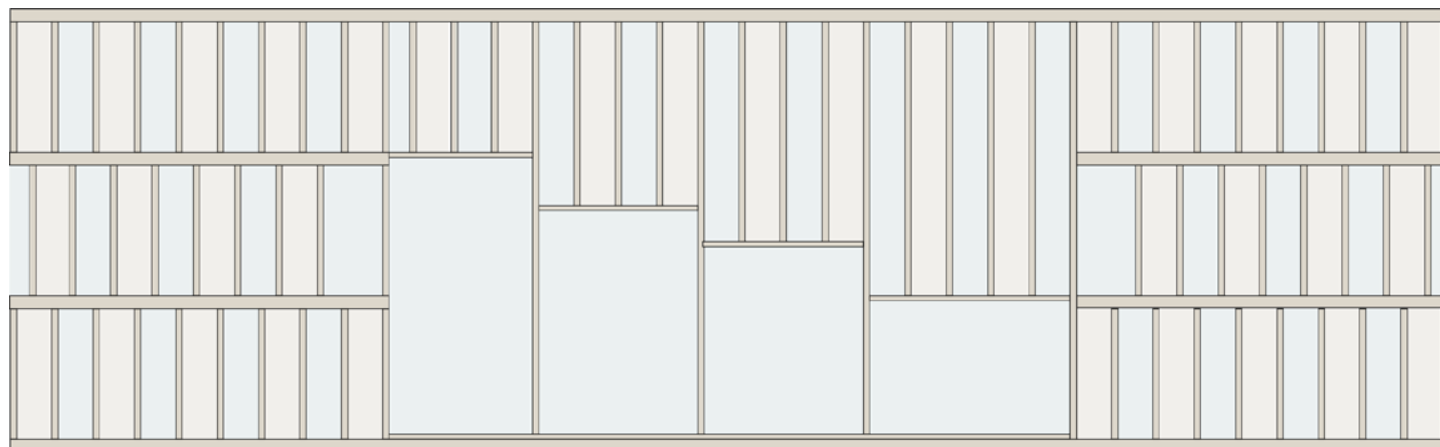
STAIRCASE STRUCTURE



GLULAM COLUMN



ST5RUCTURE ORGANISATION



SKY TOWER

OFFICE BUILDING

The reconstruction project of Palazzo Pietro Micca in Turin is an ambitious initiative that aims to harmonize the building's storied past with contemporary architectural innovation. This project underscores a profound respect for the historical identity of the palazzo's façade, while infusing the structure with modern elements.

By retaining these defining characteristics, the project pays homage to the architectural narrative that has shaped the city's cultural landscape. While the façade remains a touchstone of history, the interior and structural aspects of the project will embrace contemporary architectural approaches. Innovative design principles

will be employed to create spaces that are functional, aesthetically pleasing, and conducive to modern urban living.

This blend of old and new will create a dynamic dialogue between past and present, providing a unique environment that respects tradition while meeting contemporary needs. Integral to the reconstruction project is a steadfast commitment to sustainability.

From the use of renewable energy sources to the implementation of green building practices, every aspect will be scrutinized to minimize its ecological footprint. This sustainable approach ensures that the project will not only stand as a beacon of historical preservation but also as a model of forward-thinking, eco-friendly urban development.

