

MOHSEN DADIPOUR
PORTFOLIO 2023



MOHSEN DADIPOUR

I prefer to explore architecture in the digital space, examining it with the qualities of the digital world.

Phone: +989132080715
Email: mohsendadipour@gmail.com
Telegram: @MohsenDadipour

Design Skills

BIM, 3D Modeling, Visual Programming, Rendering, Video Editing

Software Skills

Revit	■	■	■	■	□
Grasshopper Rhino	■	■	■	□	□
Lumion	■	■	■	□	□
Gaea	■	■	■	□	□
TouchDesigner	■	■	■	□	□
Photoshop	■	■	□	□	□
InDesign	■	■	□	□	□
Premiere	■	■	□	□	□

Thinking Skills

Creative Thinking, Problem-Solving, Contextual Thinking, Systems Thinking, Spatial Thinking, Detail-Oriented Thinking

Interest

Parametric and Generative Design: Algorithmic Design Processes, Exploration of Form-Finding Algorithms, Integration of Parametric Tools in Architectural Practice

Digital Architecture and Technology: Building Information Modeling (BIM) and parametric design, Augmented reality (AR) and virtual reality (VR) applications in architecture, Computational design and generative algorithms.

EDUCATION

2013 - 2017

Bachelor of Applied Science in Architecture
Faculty of Engineering and Technology
Shahid Ashrafi Esfahan University
Isfahan, Iran

Thesis and Final Project:

Designing a villa Based on the 4th Dimension of Space in Architecture
Choghakhor Lagoon, Iran

2010 - 2013

Associate's Degree in Architecture
Faculty of Engineering and Technology
Shahid Ashrafi Esfahan University
Isfahan, Iran

WORK EXPERIENCES

2022 - 2024

ZAYAD Architecture Lab
[CO- Founder , Designer]

2023

Golshan Properties Inc
[Designer of Affordable Houses in LA]

2017 - 2021

PALA Architecture Studio
[CO- Founder , Designer]

2015 - 2017

Internship in Charbagh Baharestan Urban Planning and Architecture Firm
[Assistant Designer and BIM Operator]

TEACHING EXPERIENCE

2022 - 2024

Autodesk Revit Beginner Courseware

HONORS AND AWARDS

2021

Finalist of YAC Architectural Competitions
Subject: Culture Station

RELATED COURSES

2023

TouchDesigner Camp
[Ali Amini]

2022

Grasshopper Rhino
[Shadi Khalegi]

2014

Autodesk Revit Beginner Courseware
[Meisam Shahpir]

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Culture Station | P A L A Architects

Schematic Design - Design Development

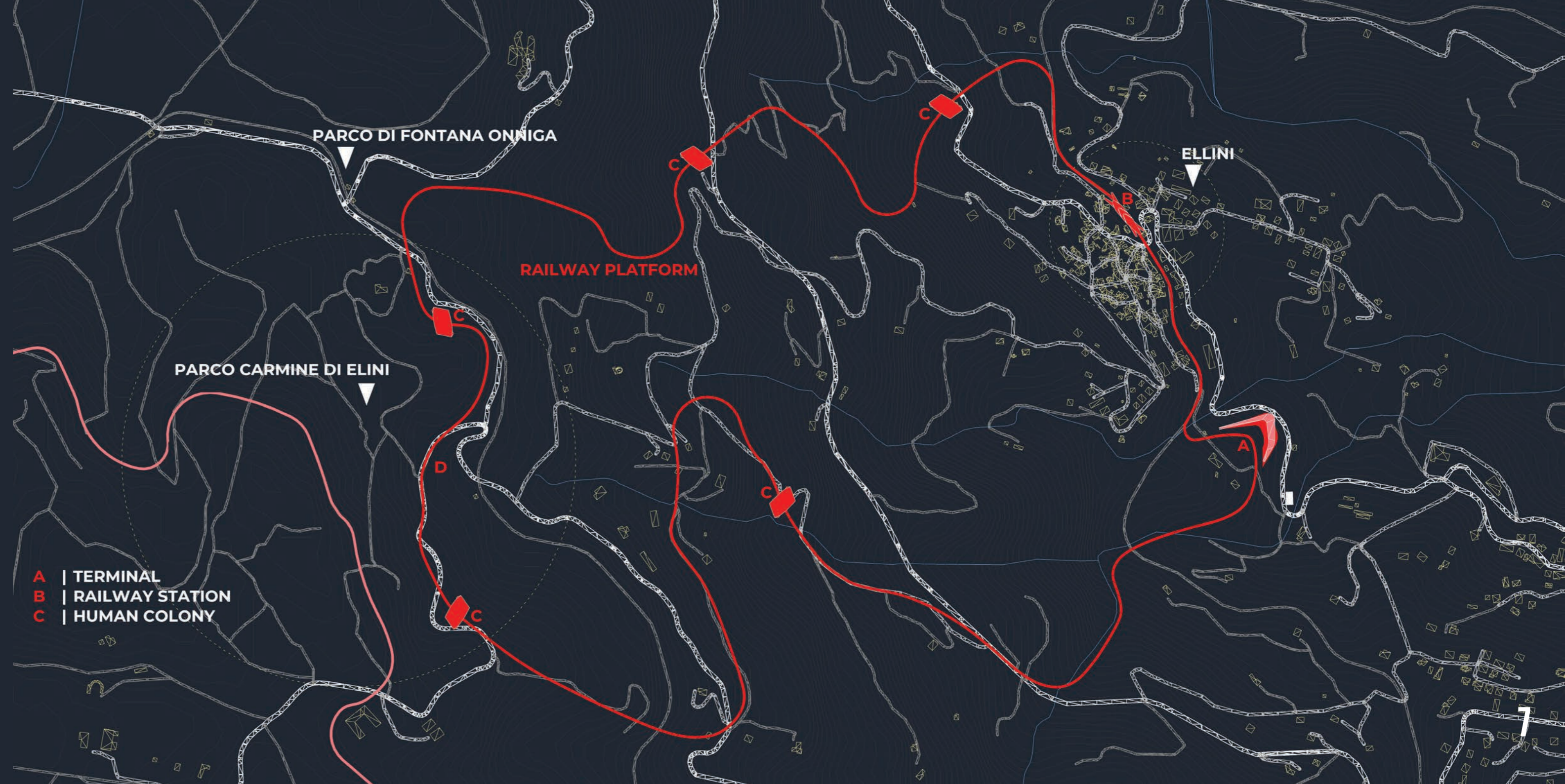
Project Lead: Mohsen Dadipour - Shayan Naderi

Project Manager: Sajad Alaei

Our Team: Ali Amini - Amin Ranjbar - Sajad Alaei - Parisa Kiani

Our vision for the future of Elini revolves around creating an adaptable model that can be implemented in similar contexts. Embracing a sustainable approach, we propose the concept of "Human Colonies," where the population gradually moves away from the cultural core of Elini and gathers in dispersed, yet connected, clusters. This strategic plan aims to preserve the natural, historical, and cultural identity of the city.

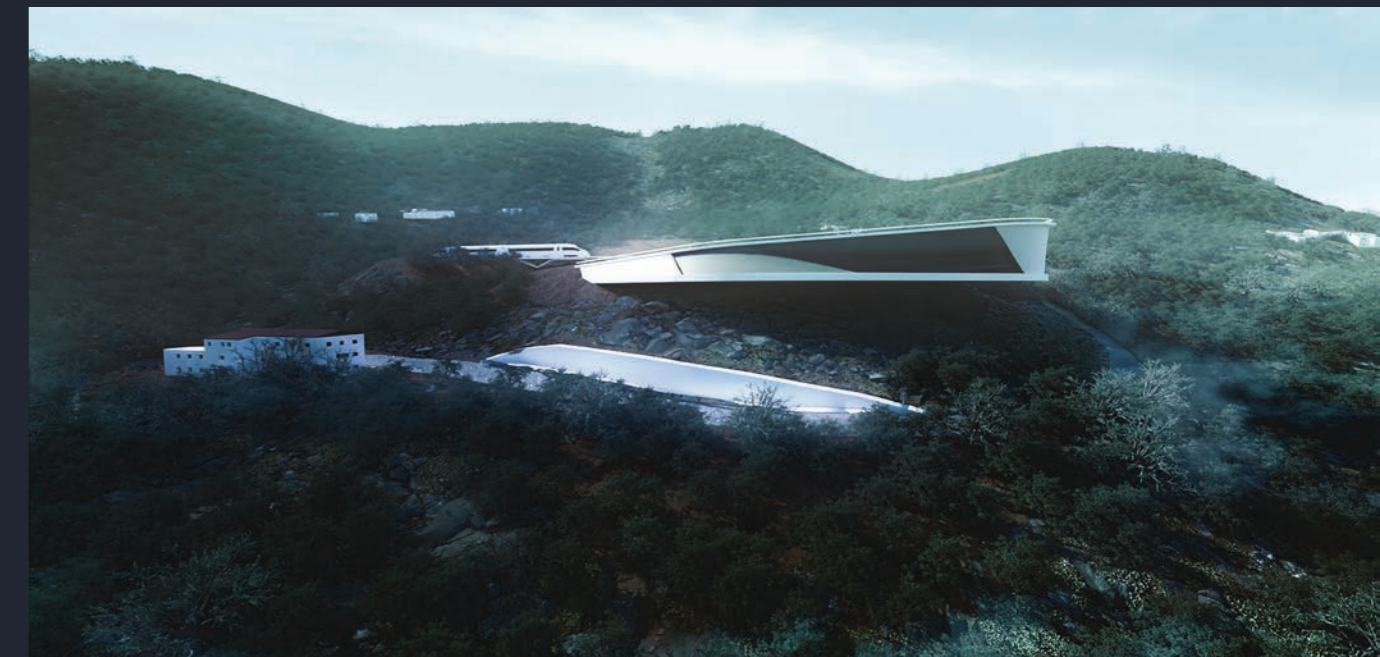
To achieve this, we propose the establishment of a railway platform that links the components of this urban system, facilitating efficient and car-free communication between them. The railway serves as a bridge between the heritage of past Elini and its progressive future.



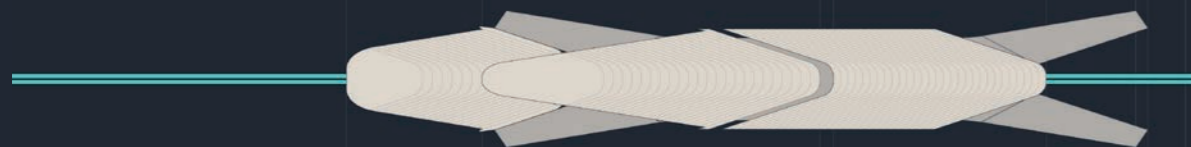
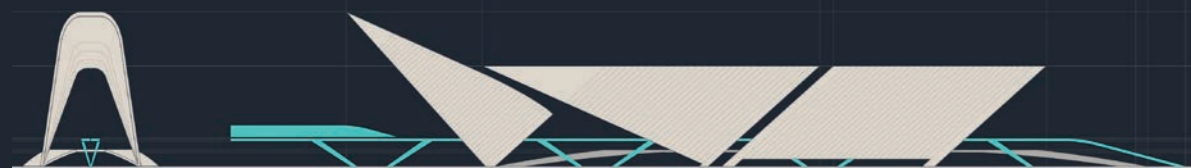
- A | TERMINAL**
- B | RAILWAY STATION**
- C | HUMAN COLONY**

A | Terminal

One of our key interventions takes place in AREA A, adjacent to the former olive oil mill, which serves as the gateway to the city. Here, we create an integrated form that acts as the endpoint for car traffic, seamlessly transitioning to an underground parking facility and introducing a vibrant terminal connecting cars and railway. This dynamic space becomes a hub for events and daily interactions among people, enhancing community engagement.

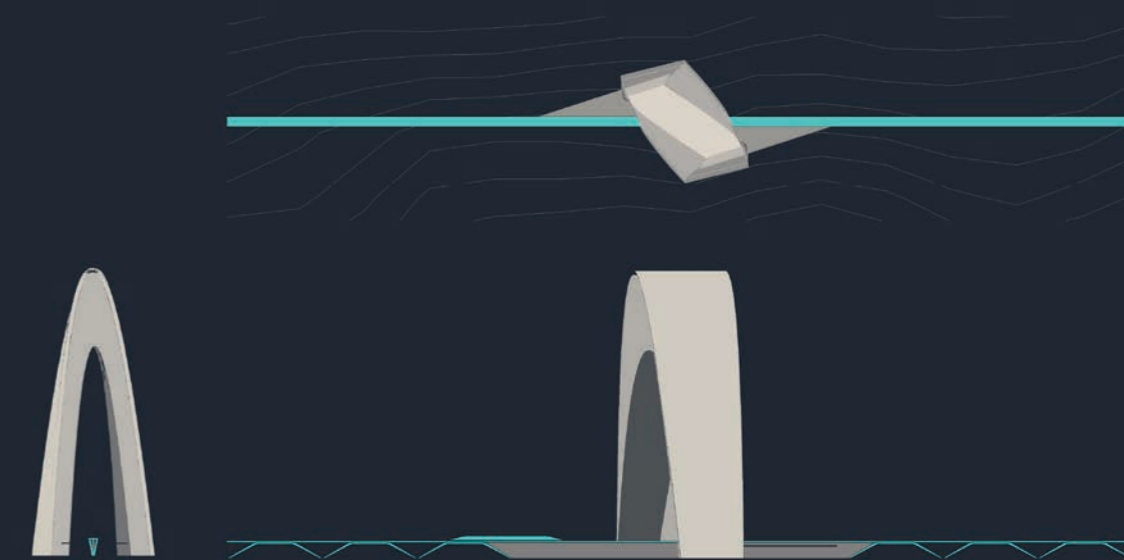


B | Railway Station



The existing and old context of the city (AREA B) will be preserved, maintaining its cultural significance and hosting cultural events. As part of our proposal, a new railway station will be designed in AREA C, serving as an intersection between the new and old railways. This versatile station will include an exhibition space on the ground floor, establishing itself as the city's vibrant art center. With constant artistic flow, this multipurpose space will become a platform for creative and performative events.





Along the path of the railway platform, we have identified five strategic points for the design of the Human Colonies. These vertical colonies deeply root themselves in Elini's historical soil and context, taking the form of iconic monuments. Dispersed throughout nature, these colonies encourage exploration of the surroundings and foster social interactions among inhabitants. Additionally, they offer essential services beyond mere residences, ensuring a self-sustaining and thriving environment.

Multi-functional Alman 2 | P A L A Architects

Schematic Design - Design Development - Permit Drawings - Construction Documents - Coordination

Project Lead: Mohsen Dadipour - Shayan Naderi

Project Manager: Sahar Amani

Our Team: Amin Ranjbar - Sajad Alaei - Parisa kiani -

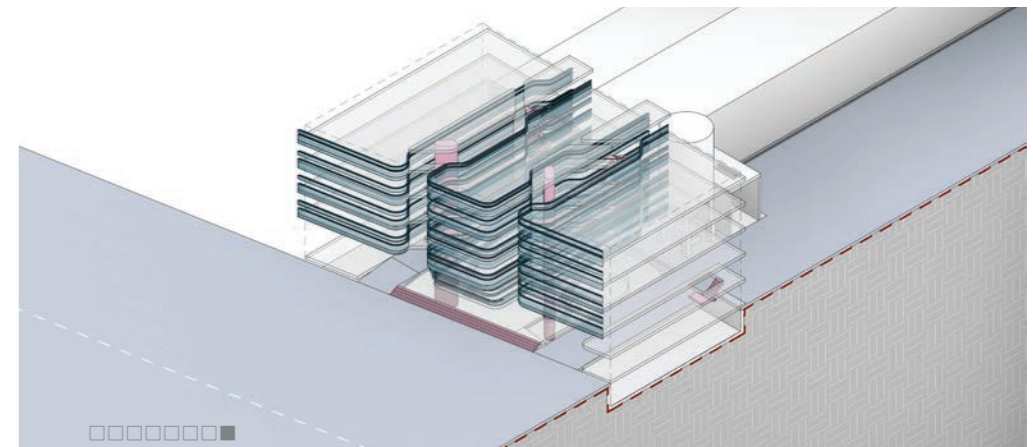
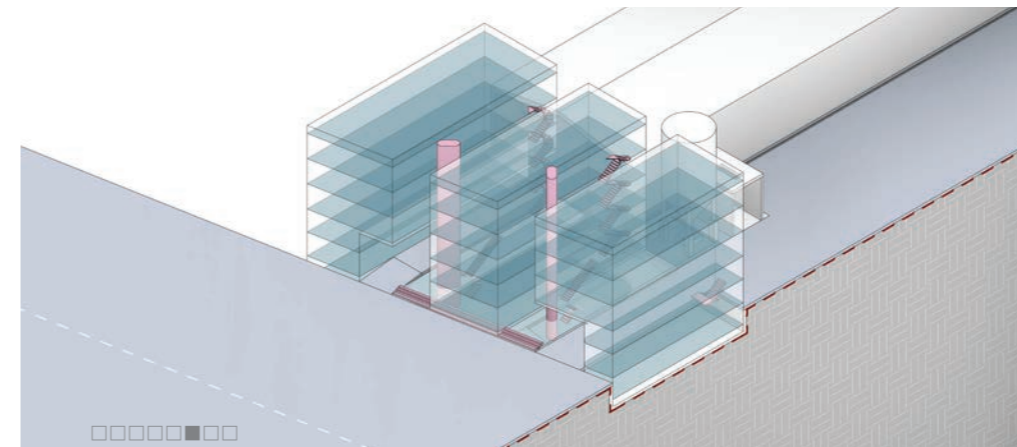
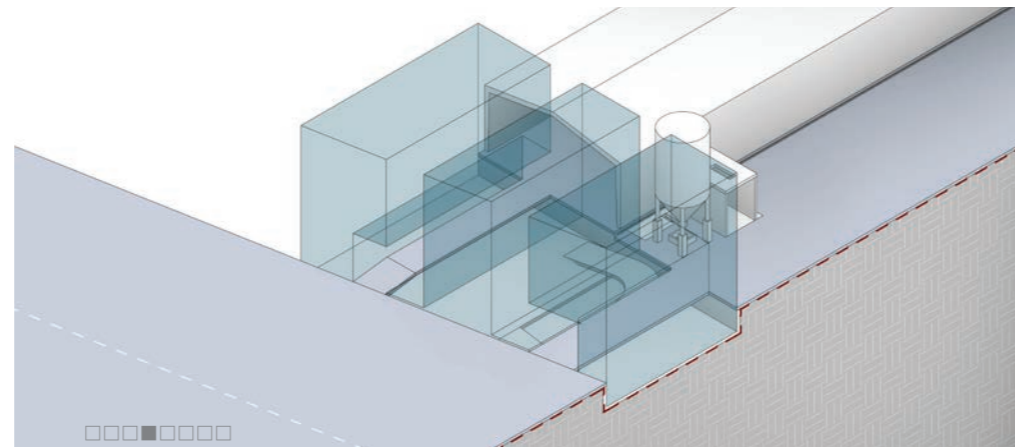
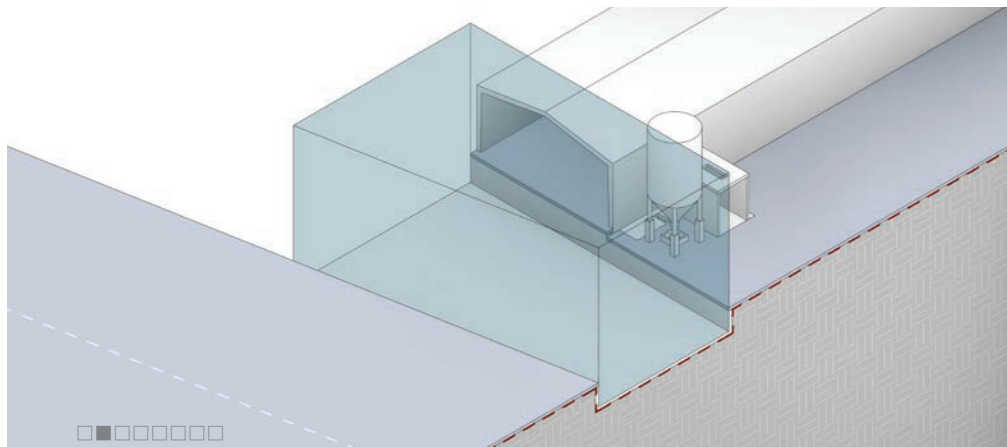
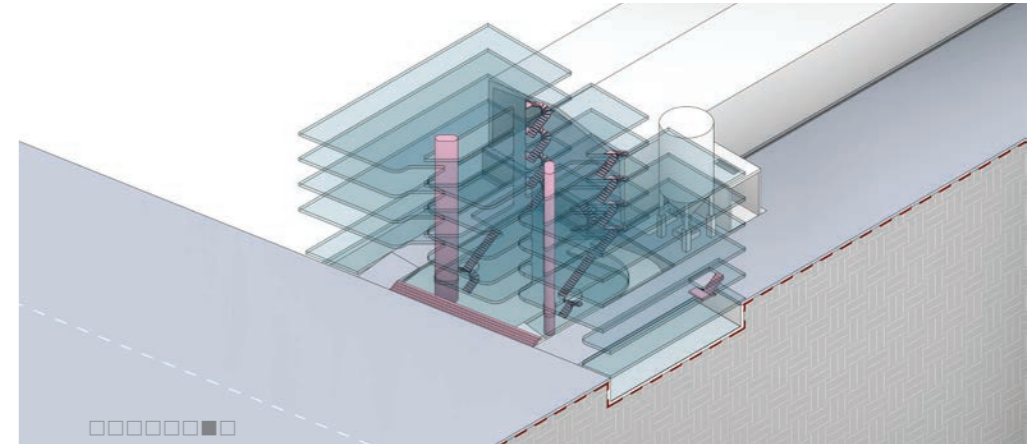
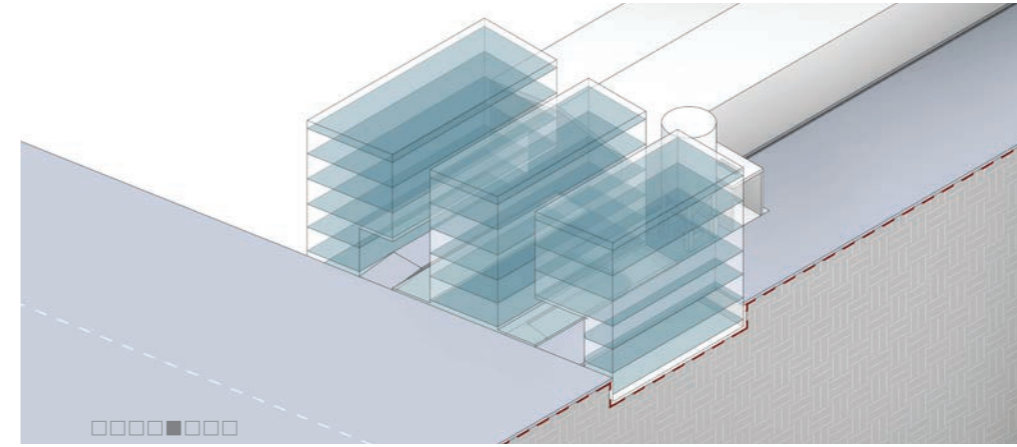
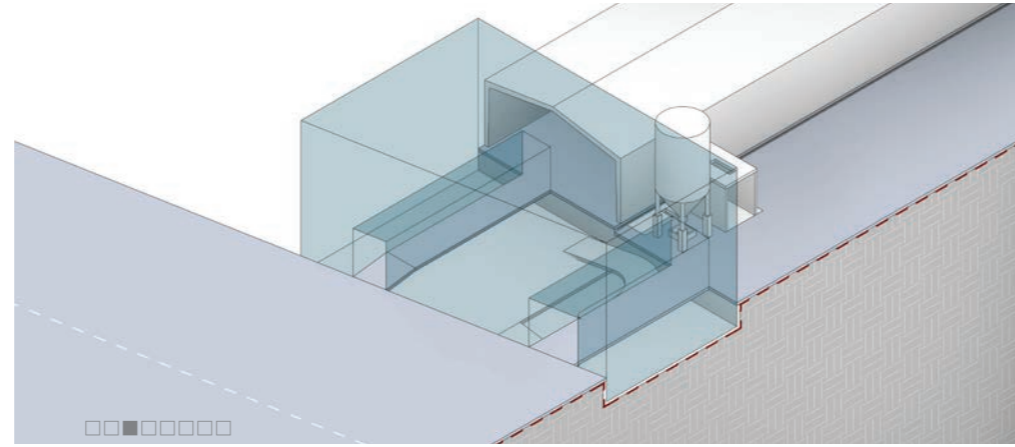
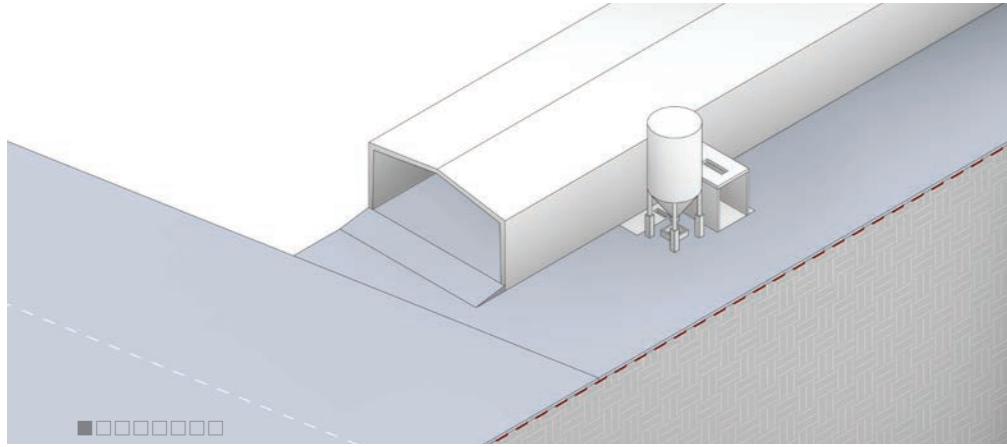
Phase 2: Sahar Amani - Niloufar simani - Mahsa Asfadi

Structural Engineer: Nima Rezvani - Mahan Shah Mohamadi

It is a multifunctional project with office, commercial, and residential uses, located in an industrial area. The building is situated between the street and the industrial section of the site, which presented the challenge of accommodating the passage of industrial machines. To address this, the mass of the building was divided into three parts, and two paths with permitted height restrictions were created. This vacant space extends to the roof, creating a skylight in the center with access corridors surrounding it.

The first two floors house the commercial section, which includes a stone exhibition, an industrial tools and supplies store, as well as an office unit and a residential unit overlooking the commercial area. The design of the building incorporates 27 office units, which greatly influenced its architecture. The entry to these units is through corridors that allow natural light to penetrate. The spaces are completely open, providing extensive views. Lighting and modern spatial arrangement were given significant importance in each unit.

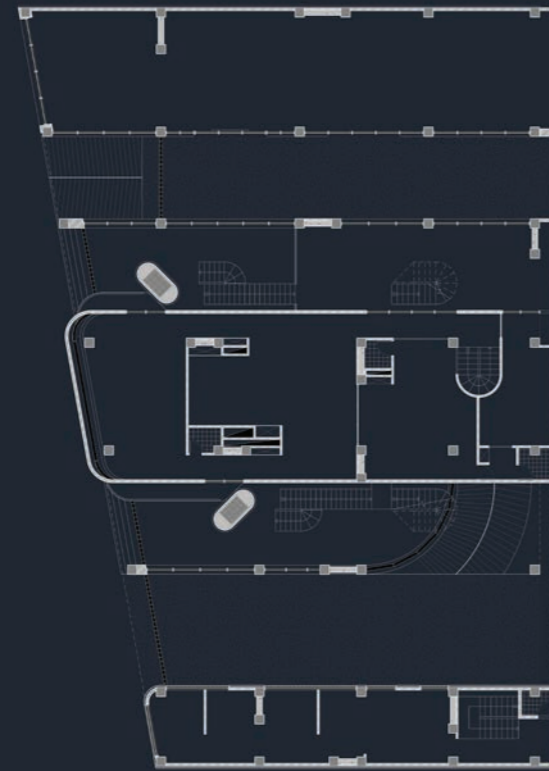




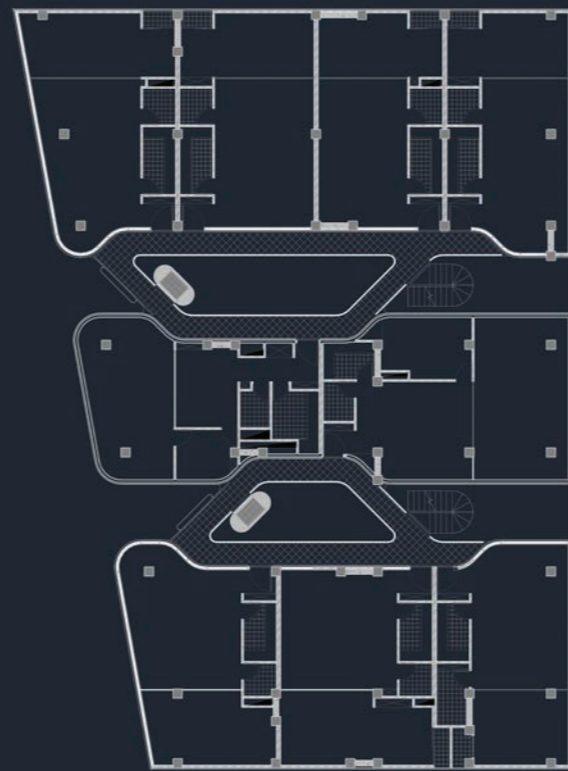
The architectural concept of this project unfolds a compelling narrative where functional nodes seamlessly intertwine with diverse circulations. This distinctive design cultivates an endless interplay between functional components and circulatory nodes, fostering a dynamic and harmonious interaction among the architectural elements. Each node not only serves its designated function but, in synergy with other nodes, contributes to a constructive and unique spatial experience. These reciprocal connections not only enhance the system's overall performance but also encourage fluidity and movement within the space. This concept not only underscores the convergence of diverse elements but also presents a fresh perspective on synergy and interaction within the spatial dialogue.



Ground Floor Plan



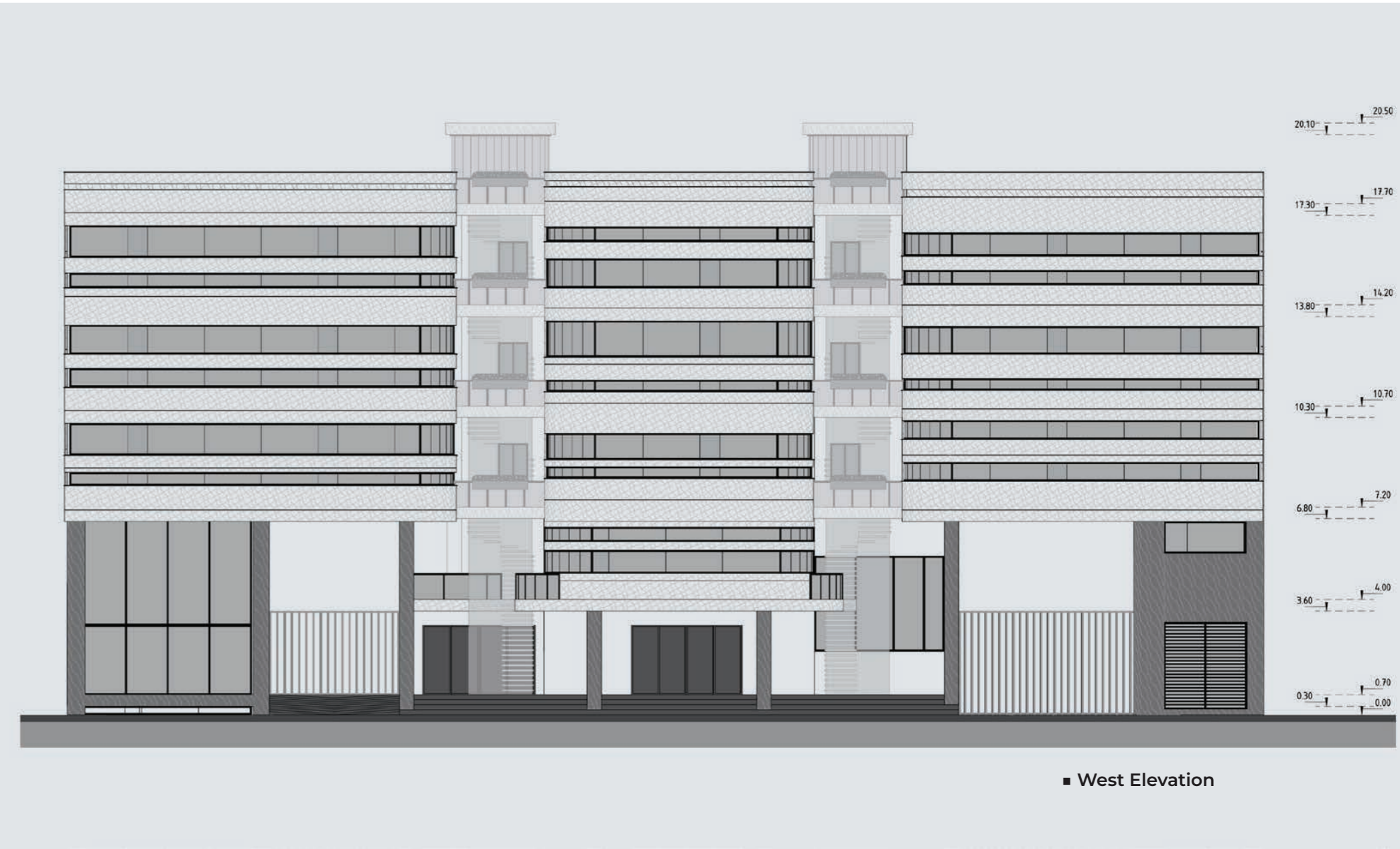
1ST Floor Plan



2ND Floor Plan
3RD Floor Plan
4TH Floor Plan



Site Plan



20.10
17.30
13.80
10.30
6.80
3.60
0.30
20.50
17.70
14.20
10.70
7.20
4.00
0.70
0.00

■ West Elevation



This project comes to life by animating the corridors around the light wells and establishing a dynamic connection with a vertical element, namely the elevator. The interplay between the movement of the corridors and the vertical elements, particularly the elevator, creates a beautiful and practical relationship throughout the building. Striking views emerge from this vertical visual connection, accentuated by the intersection with the horizontal lines of the floors.

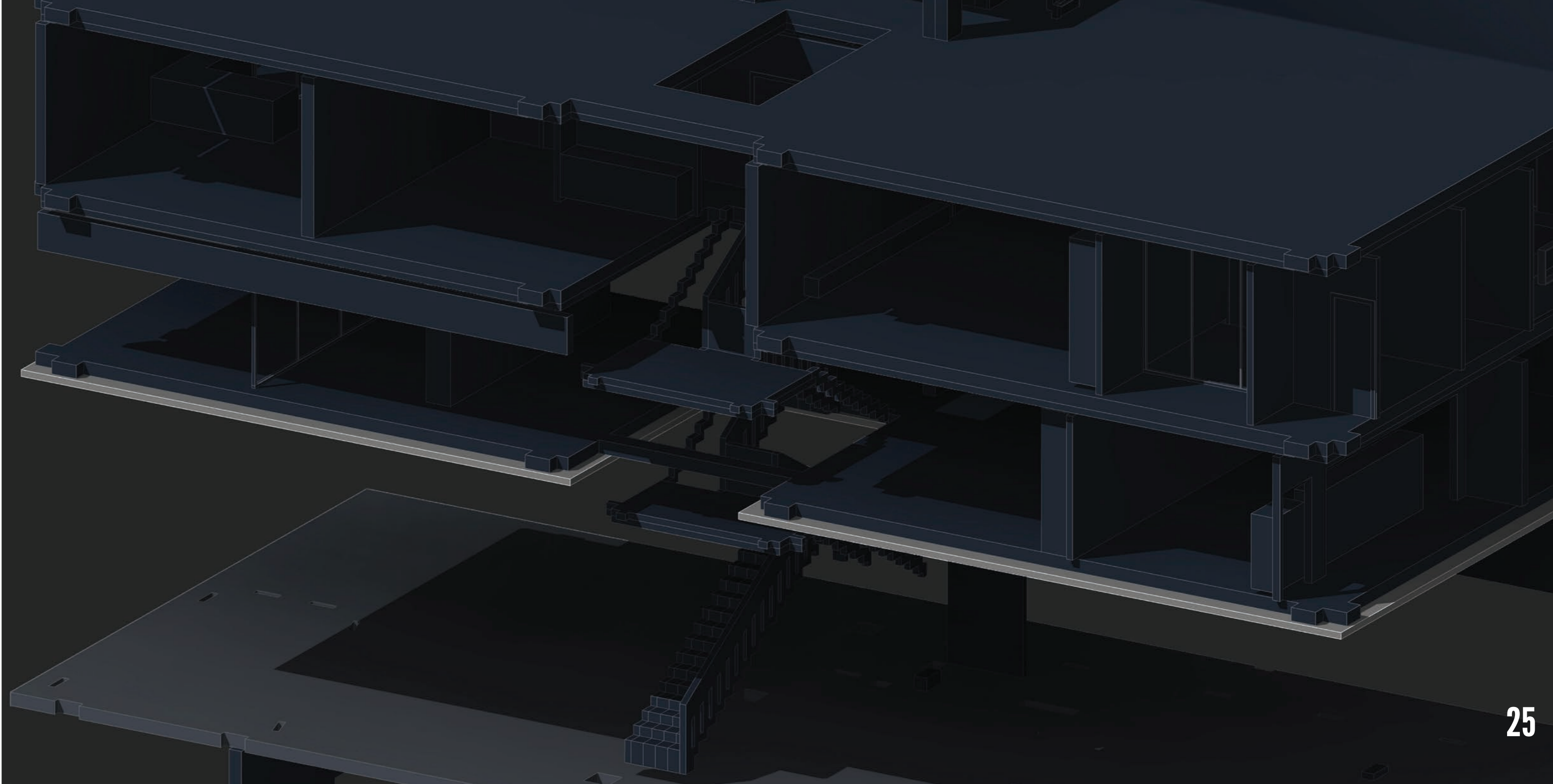
■ Void

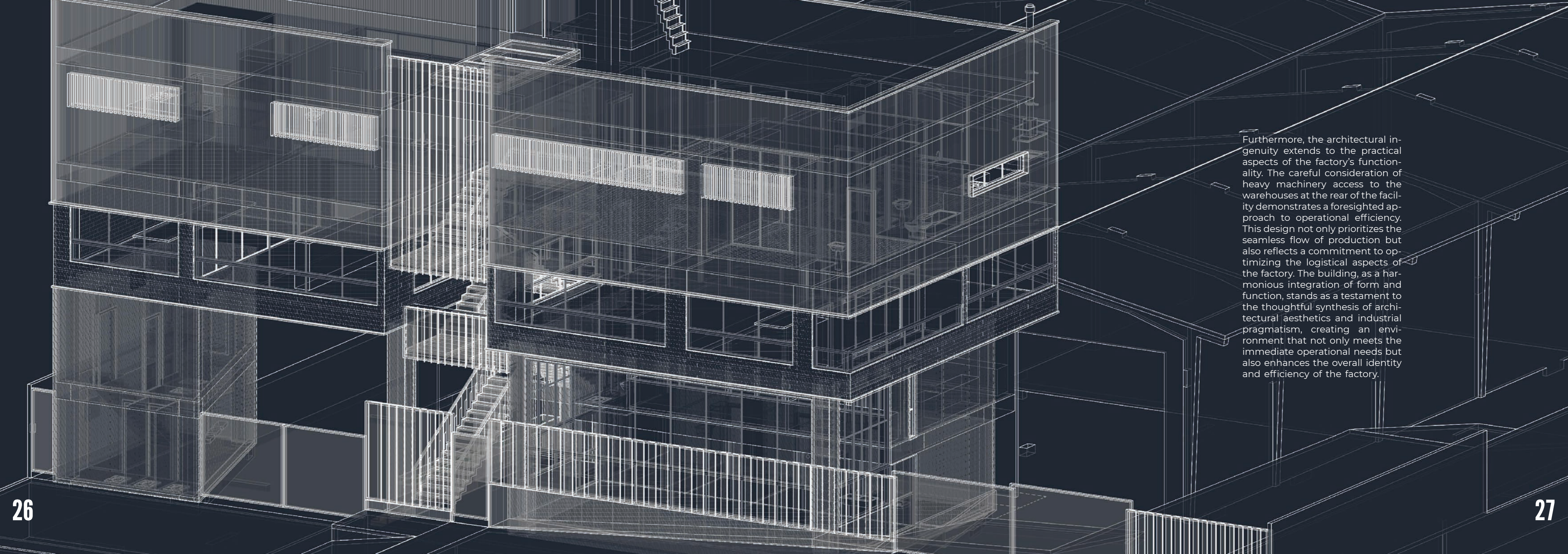


**Multi-functional Afkham Industry | ZAYAD
Architecture LAB**

Schematic Design - Design Development - Permit
Drawings - Construction Documents - Coordination
Project Lead: Mohsen Dadipour - Sahar Amani
Project Manager: Sahar Amani
Assistant: Amin Ranjbar - Sima Dabaghi - Fargol Be-
heshti
Phase 2: Sahar Amani - Mohsen Dadipour

This multifunctional building, strategically accommodat-
ing a lobby and guard station, an administrative floor, lab-
oratory facilities, and three suites, serves as a pivotal hub
within the operational fabric of the factory. The meticu-
lous design approach considers not only the functionality
of each space but also the cohesive integration of these
diverse elements. Situated prominently at the forefront
of the site, the structure assumes the dual role of an
inviting entrance and an expressive embodiment of the
site's architectural essence. The lobby and guard station
create an immediate impression, offering a welcoming
introduction to the facility, while the administrative floor
efficiently houses key managerial functions. The laborato-
ry space, thoughtfully incorporated, represents a hub of
innovation, fostering a collaborative environment for re-
search and development. The three suites, designed with
a keen eye for versatility, cater to various needs, ensuring
adaptability in response to the dynamic requirements of
the factory.

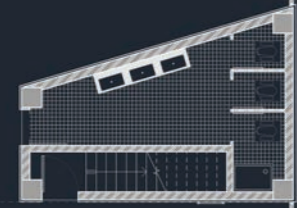




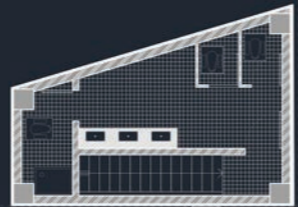
Furthermore, the architectural ingenuity extends to the practical aspects of the factory's functionality. The careful consideration of heavy machinery access to the warehouses at the rear of the facility demonstrates a foresighted approach to operational efficiency. This design not only prioritizes the seamless flow of production but also reflects a commitment to optimizing the logistical aspects of the factory. The building, as a harmonious integration of form and function, stands as a testament to the thoughtful synthesis of architectural aesthetics and industrial pragmatism, creating an environment that not only meets the immediate operational needs but also enhances the overall identity and efficiency of the factory.



■ Ground Floor Plan



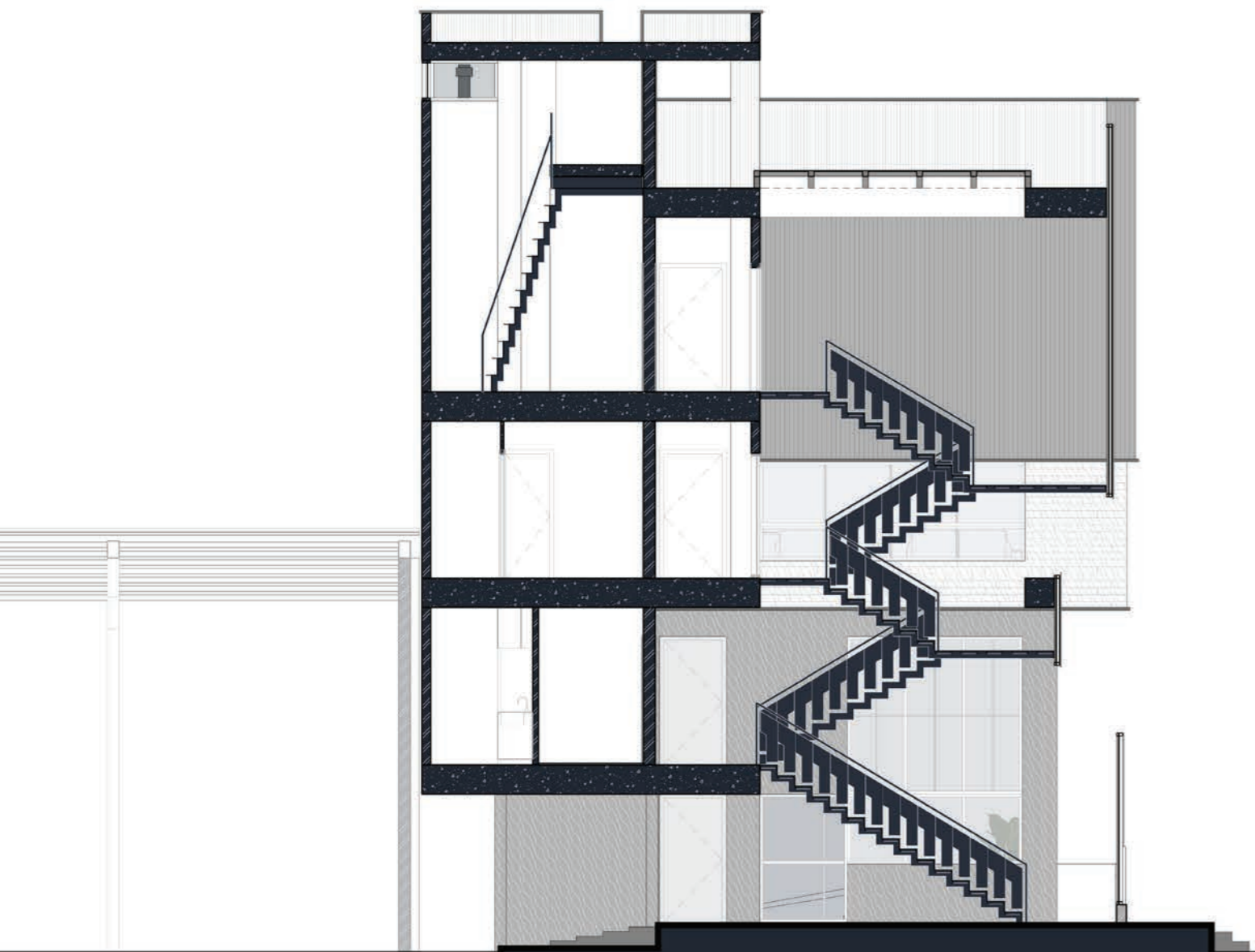
■ 1ST Floor Plan



■ 2ND Floor Plan



■ 3RD Floor Plan



This extraordinary staircase system transcends its functional purpose, evolving into a vertical lobby that redefines the spatial dynamics of the entire structure. Its steps, resembling terraces, not only serve as a visual spectacle, offering a panoramic view of the bustling street below, but also ingeniously double as captivating rest areas. As a central light well, this staircase becomes a sculptural centerpiece, seamlessly integrating itself into the architectural narrative of the office floors.

What sets this staircase apart is its dual role as a mediator between the exterior and interior realms of the building. From one vantage point, it invites individuals to engage with the urban landscape through a strategically designed portion of the outer facade, providing a connection to the external environment. Simultaneously, from another perspective, it offers a nuanced look into the internal facets of the building, revealing glimpses of the dynamic activities within.

This design approach not only imparts a sense of connectivity but also transforms the staircase into a symbolic bridge, linking the outside world with the inner workings of the structure. Beyond its functional utility, this staircase becomes a captivating architectural element, enhancing the overall aesthetics of the building and enriching the user experience by seamlessly blending form and function in a harmonious dance between the exterior and interior spaces.



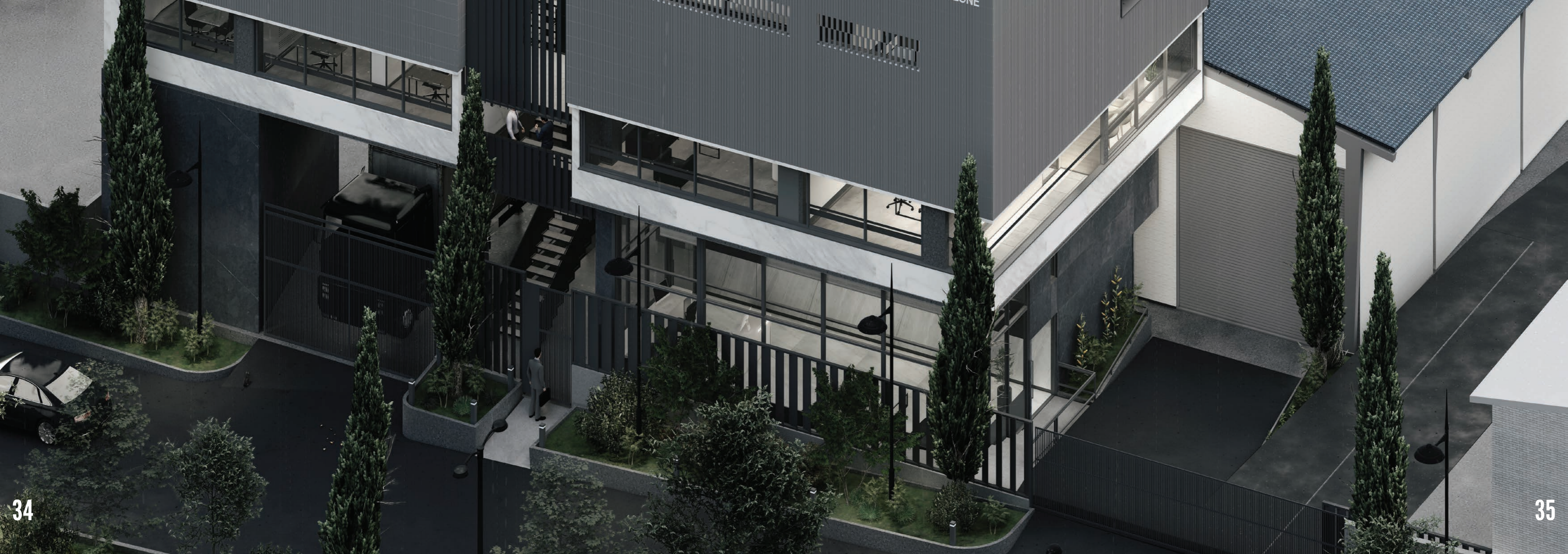
■ Lobby



■ Lobby



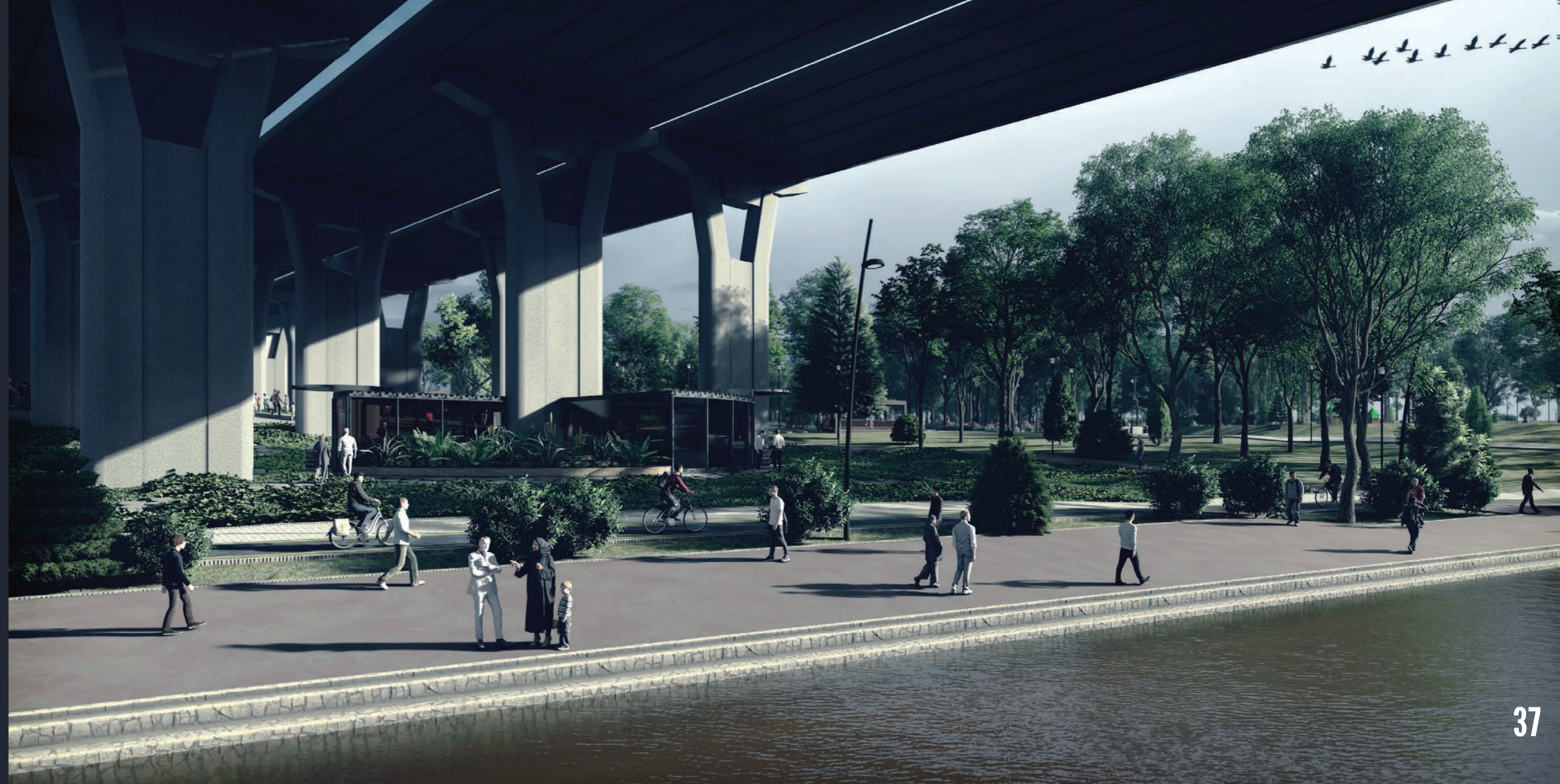
Office Lounge ■



Moshtagh Park | ASAR
Architecture Studio

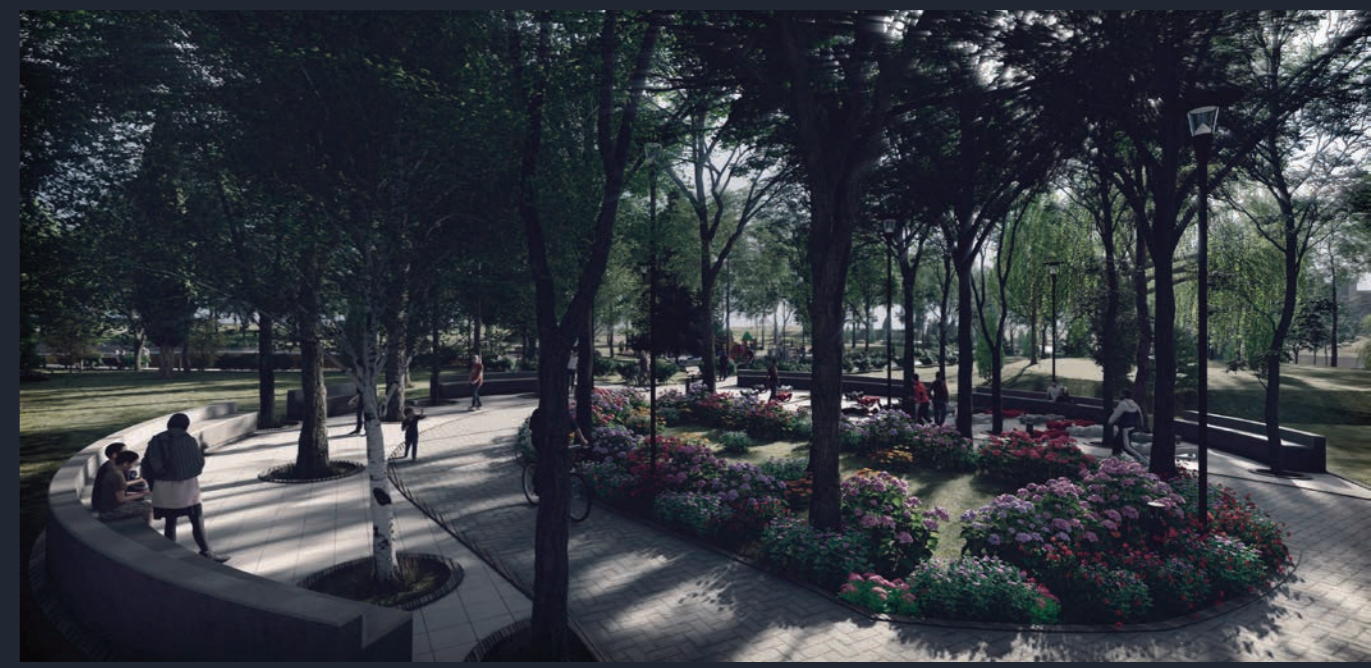
Schematic Design - Design Development - Permit Drawings - Coordination
Project Lead: Elahe Akbar
Project Manager: Sahar Amani
Assistant: Mohsen Dadipour - Sahar Amani
Modeling And Rendering: Mohsen Dadipour

This landscape project, Park Moshtagh, focuses on green space and is located in Isfahan, between Ghadir Bridge and Saruyeh Hill. The concept of this project is based on play and color, and it is specially designed to cater to the needs of disabled individuals, the elderly, children, and athletes. Using vibrant colors and diverse play areas, Park Moshtagh aims to create a dynamic and attractive environment for all segments of society. The design of the spaces ensures easy access and convenient use for people with different needs, while also providing places for rest and recreation. This project not only serves as a green space but also acts as a social and cultural meeting point for the community, offering visitors a unique and enjoyable experience of nature and social interaction.



A | Public Sports Plaza

This plaza has been designated for communal sports, located at the beginning of the path dedicated to the elderly. This space is attractive and pleasant, designed for group morning exercises. Additionally, this area is directly connected to the city's pedestrian axis, known as the Health Path.





B | Children's Playground

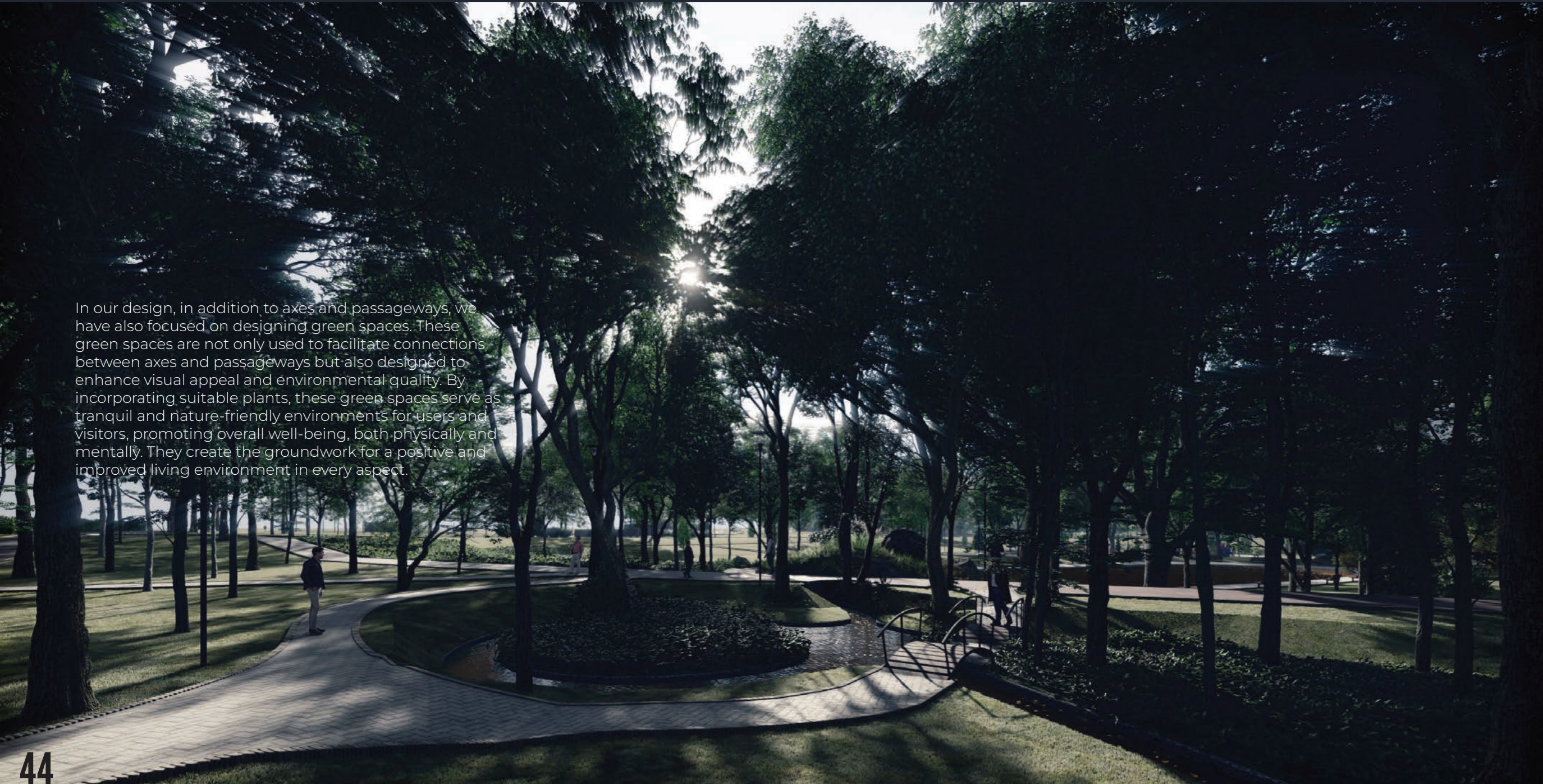
The location of the children's playground has been chosen and designed in such a way that it is near the Health Axis, Elderly Axis, and an artificial pond. Surrounding it are spaces designed for parents and families to sit, along with furniture specifically designed for children.





The existing building underwent a transformation in its use, integrating a playful and colorful concept that influenced both its exterior surroundings and facade. Emphasizing functionality and aesthetic appeal, this revitalization project not only redefined the building's purpose but also revitalized its visual identity. Alongside this renovation, the Health Axis was extended to run adjacent to the building, enhancing its accessibility and connection to health-promoting activities. Additionally, a new axis was purposefully designed from the street, providing a streamlined entry point and improved access to the building, ensuring it serves its new function effectively within the urban context.

In our design, in addition to axes and passageways, we have also focused on designing green spaces. These green spaces are not only used to facilitate connections between axes and passageways but also designed to enhance visual appeal and environmental quality. By incorporating suitable plants, these green spaces serve as tranquil and nature-friendly environments for users and visitors, promoting overall well-being, both physically and mentally. They create the groundwork for a positive and improved living environment in every aspect.



Oil Company's Executive's Residence |
ZAYAD Architecture LAB

Schematic Design - Design Development - Coordination
Project Lead: Mohsen Dadipour - Shayan Naderi
Project Manager: Mohsen Dadipour - Shayan Naderi
Modeling And Rendering: Mohsen Dadipour

In this project, the main challenge is to align a modern and luxurious design to enhance the well-being of executives with the existing structure. Given the current state of the building, the client requires a design that is not only visually modern and luxurious but also provides high-end amenities and comfort features to elevate the executive residence to a higher standard of management living. This challenge necessitates a thorough and comprehensive assessment of the client's needs and requirements, aiming to optimize the utilization of the existing structure while simultaneously undergoing a complete transformation in both interior and exterior design to meet the new and modern demands of the executives.

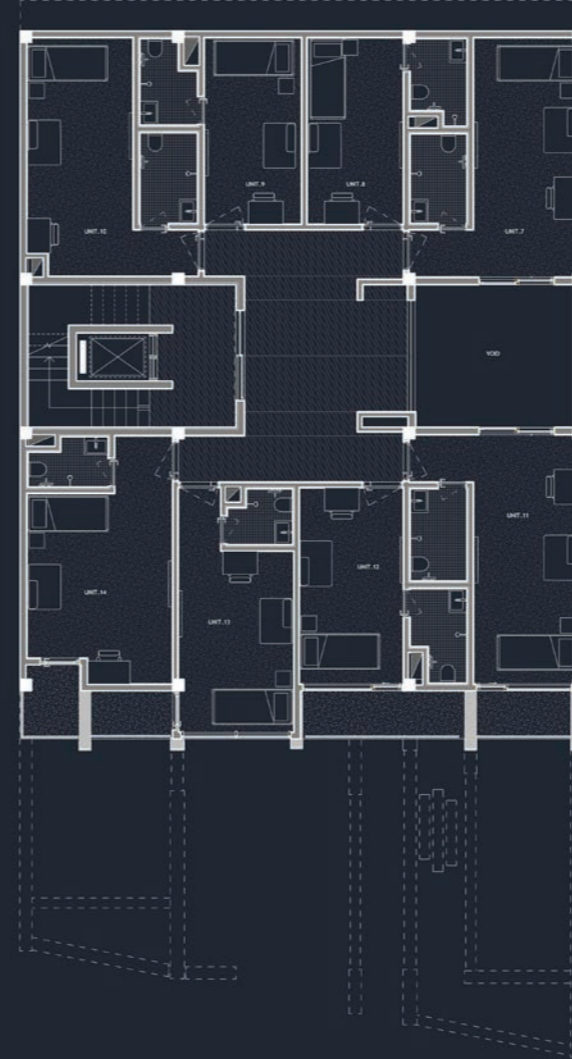




■ Ground Floor Plan



■ 1ST Floor Plan



■ 2ND Floor Plan



■ 3RD Floor Plan



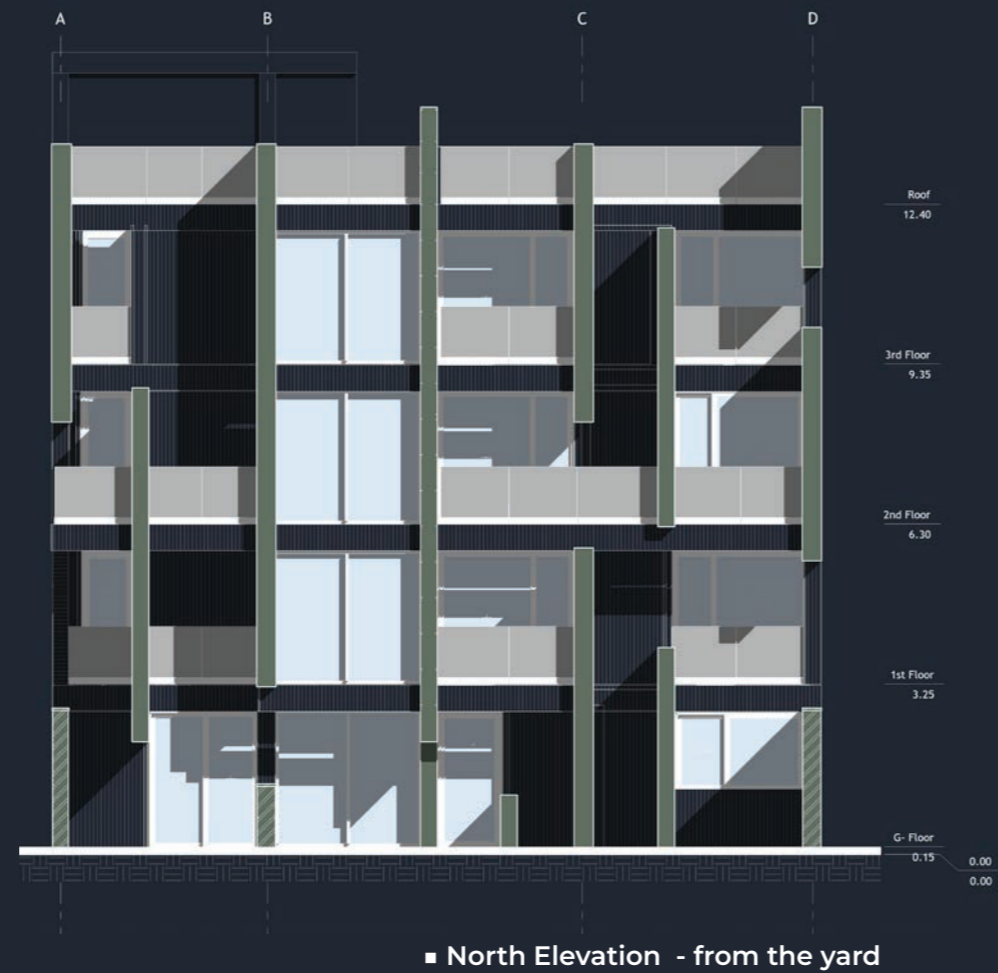
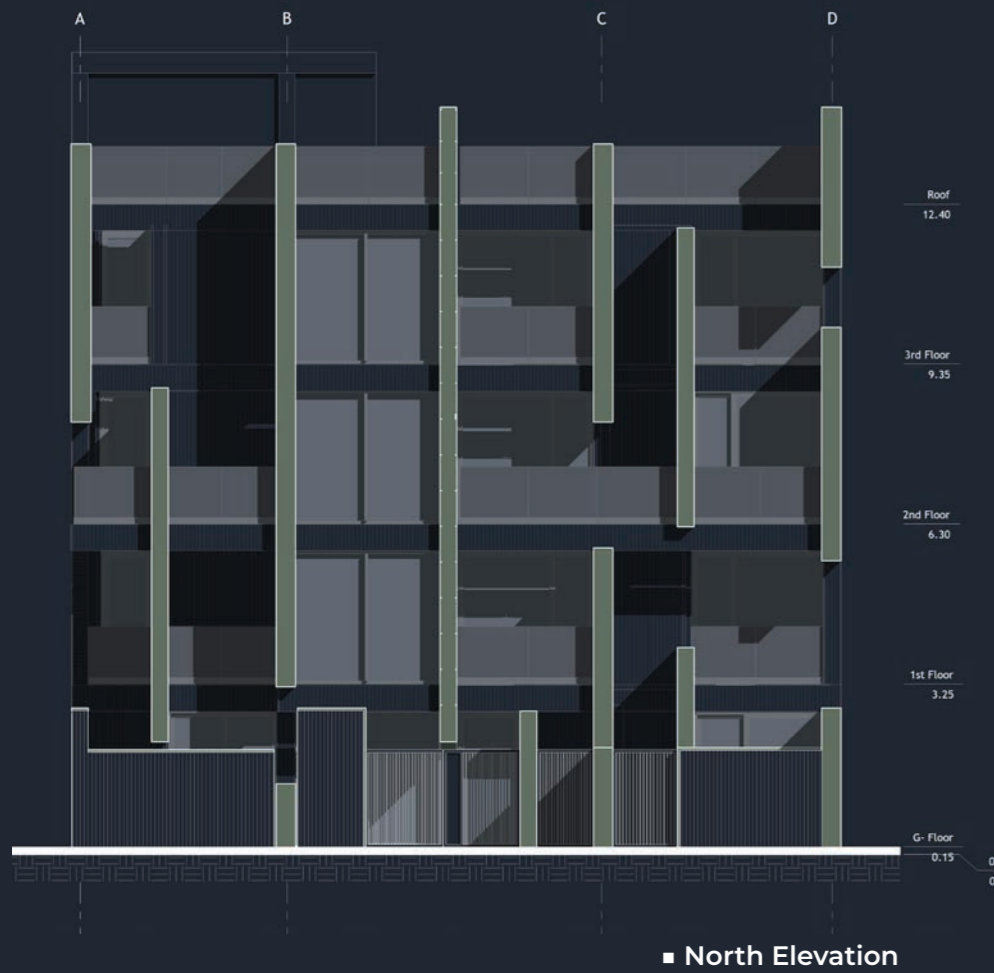
In the interior design of this company, particular attention has been given to creating an open and welcoming environment, especially in the lobby area. The company's organizational blue color has been prominently used in this design, symbolizing a distinct identity for the company. The vibrant and energizing blue lobby serves as the first point of contact for guests and employees, recognized as a symbol of innovation and progress in the workplace. This design not only captures attention but also fosters effective and friendly communication within the organization.





The floor plan and interior design of the units have been meticulously crafted using the organization's green color in a minimalistic manner to create a more cheerful and pleasant indoor environment. The extensive use of the organizational green color not only helps establish a distinct and modern identity for the organization but also contributes to making the space calm and enjoyable for relaxation after a day's work. This minimalistic design approach and the incorporation of green color also facilitate an open interior ambiance and enhance natural light, all of which collectively enhance comfort and cheerfulness for the employees.





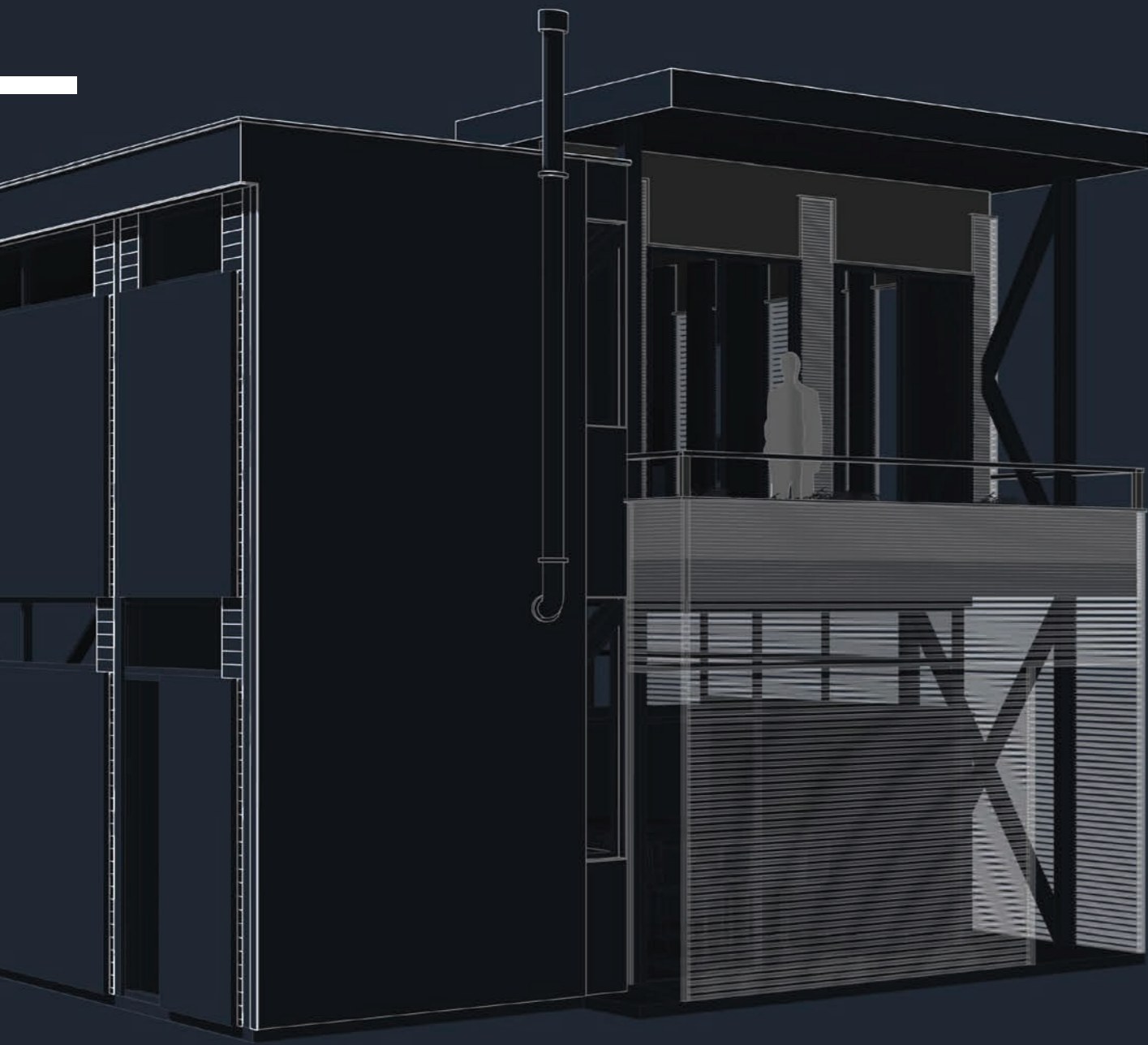
During the meticulous design phase of the building's floor plan, significant emphasis has been placed on crafting the external facade, as well as refining the intricate details of the courtyard and landscape surrounding the building entrance.

The organizational green color has been strategically employed throughout, serving not only to establish a unique corporate identity but also to significantly influence the architectural aesthetics of the building's exterior and its welcoming entrance. The incorporation of this green hue in the courtyard and landscape design enhances the seamless integration between the interior and exterior spaces, fostering a visually appealing and tranquil environment conducive to both employees and guests.

Furthermore, the design includes an expansive open seating area that extends seamlessly from the lobby into the courtyard, complemented by a transparent entrance design that enhances the building's accessibility and aesthetic appeal.





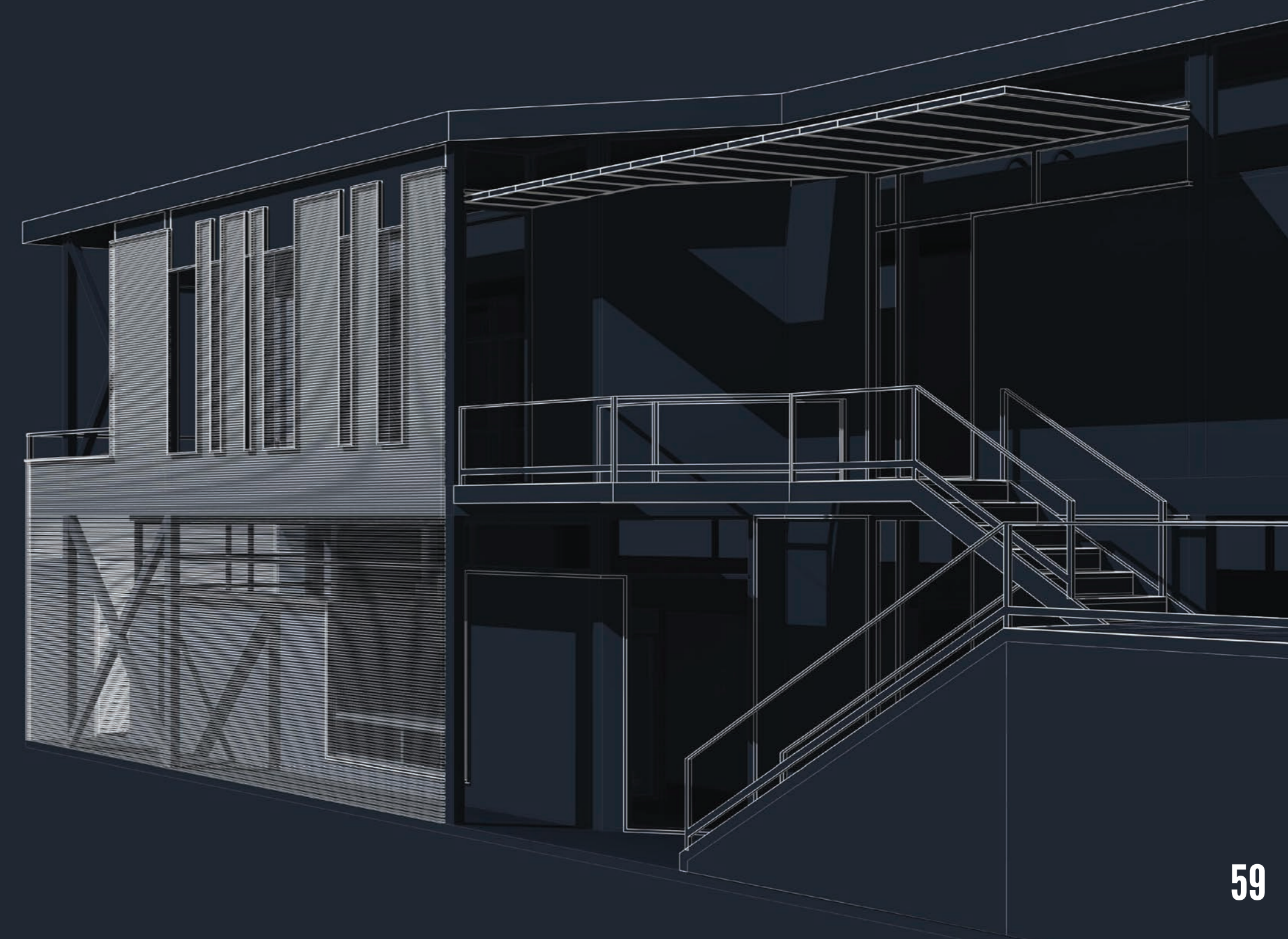


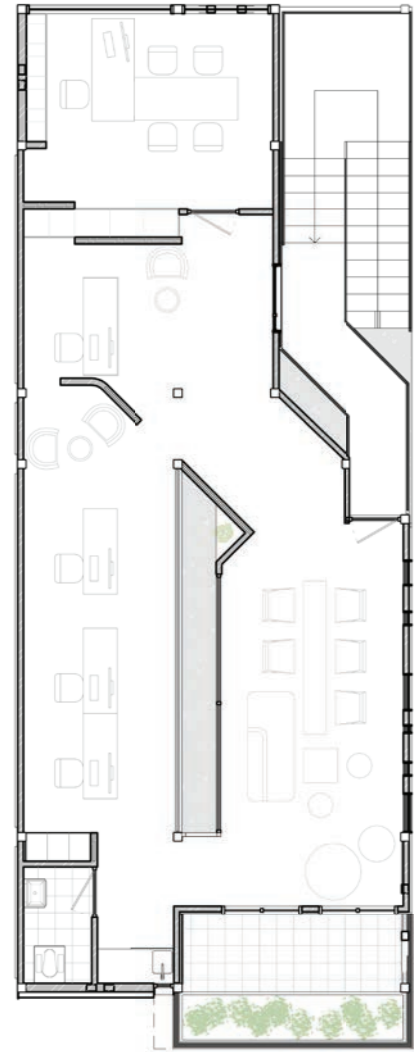
Melal Armeh Office | P A L A Architects

Schematic Design - Design Development - Permit Drawings - Construction Documents - Coordination
Project Lead: Mohsen Dadipour - Shayan Naderi
Project Manager: Sahar Amani
Interior: Shayan Naderi
Phase 2: Mohsen Dadipour - Sahar Amani

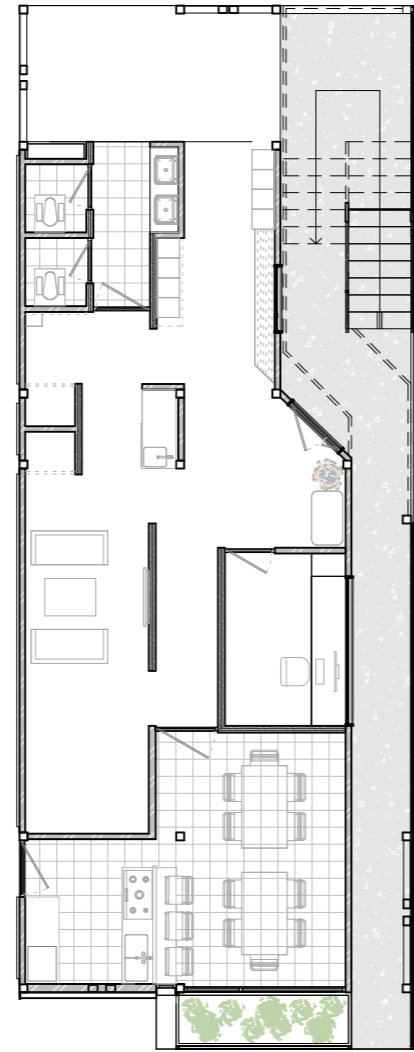
This office project has emerged within the confines of an industrial warehouse, resulting in a space that is uniquely captivating and modern in both its floor plan and interior design. Every aspect of this building has been meticulously crafted and planned, establishing a close connection with the surrounding environment given its origin within a warehouse setting.

The designers of this project have skillfully utilized precise details, optimal lighting, and strategic placements to create a distinctive office experience. This structure not only functions as an efficient and organized workspace but also leverages its industrial identity to become an artistic centerpiece. The careful attention to detail and a design tailored to practical needs, coupled with unique spatial aesthetics, transform this project into a work of architectural art.





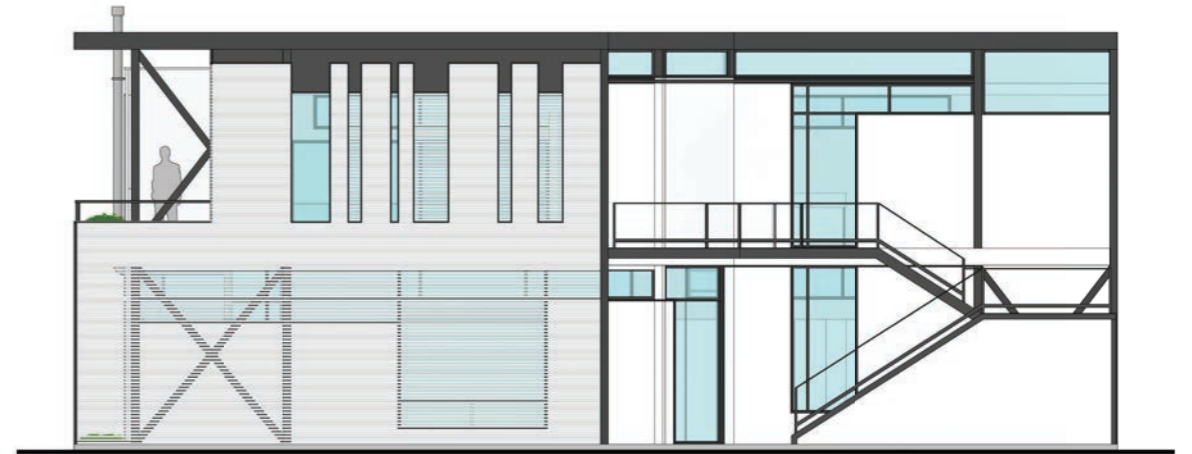
Ground Floor



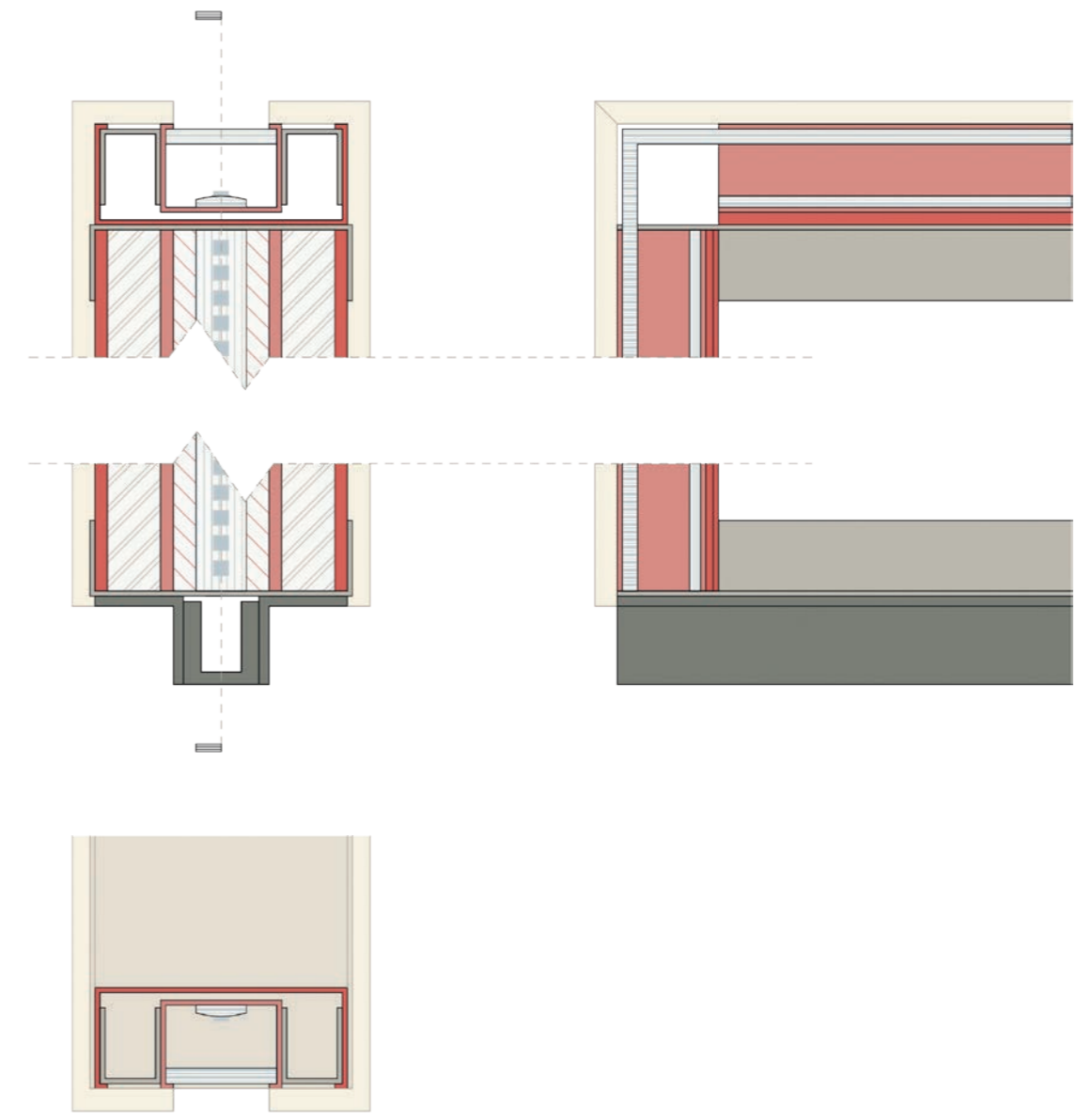
First Floor



South Elevation

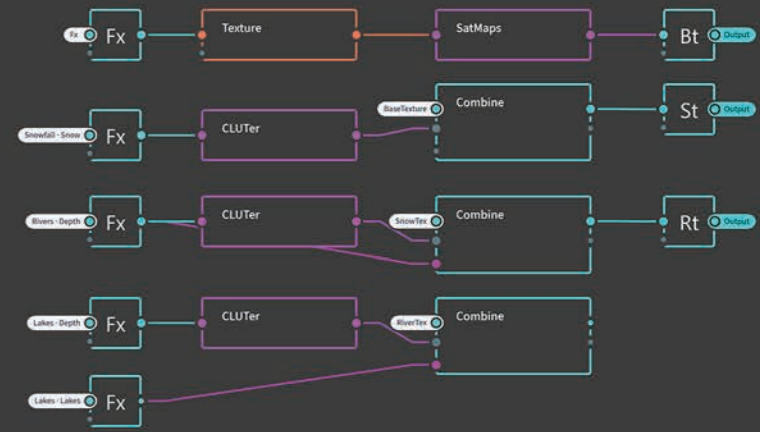
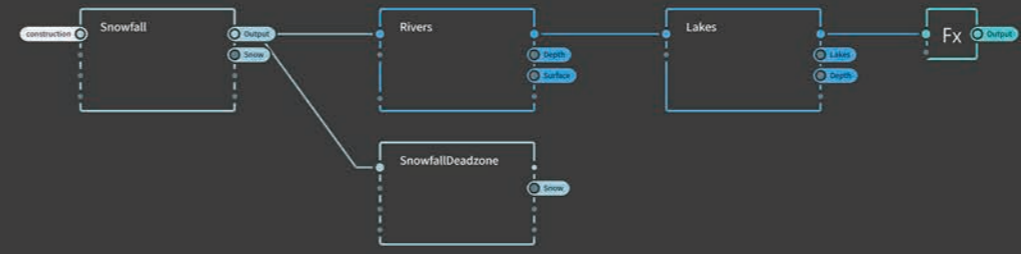
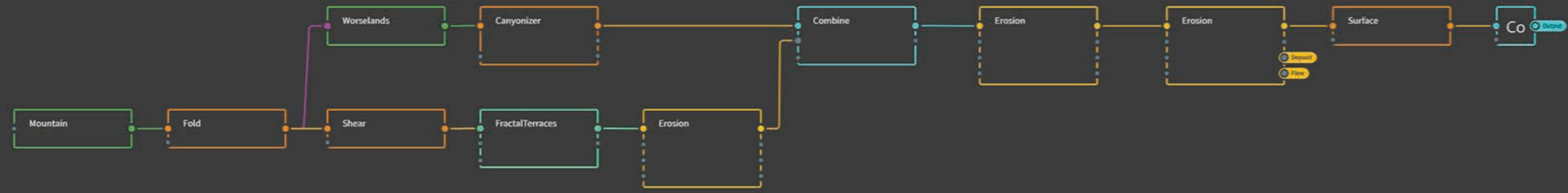


East Elevation

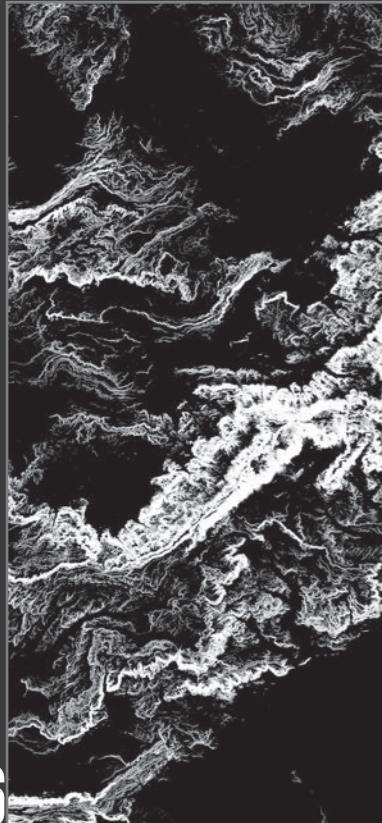


“Neverland” has been designed and constructed entirely parametrically. In this project, the decision has been made to eliminate architectural forms, allowing for the creation of an imaginative and creative spatial experience.

The absence of a fixed form allows individuals to engage with different interpretations of form within this space. This flexibility in interpretation provides each person with the opportunity to have a unique and personalized experience of “Neverland.”

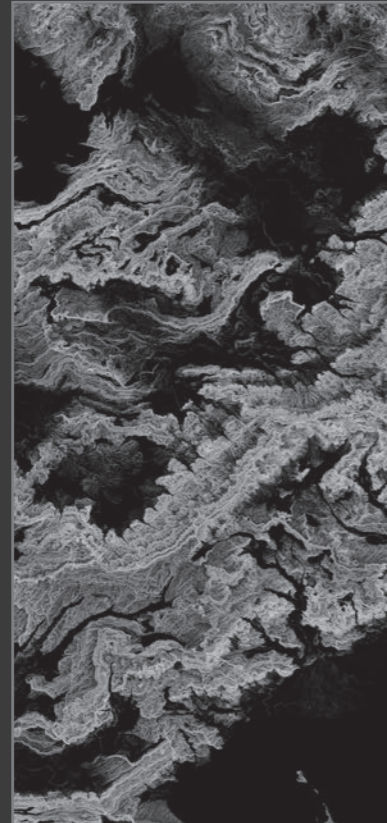


■ Slope

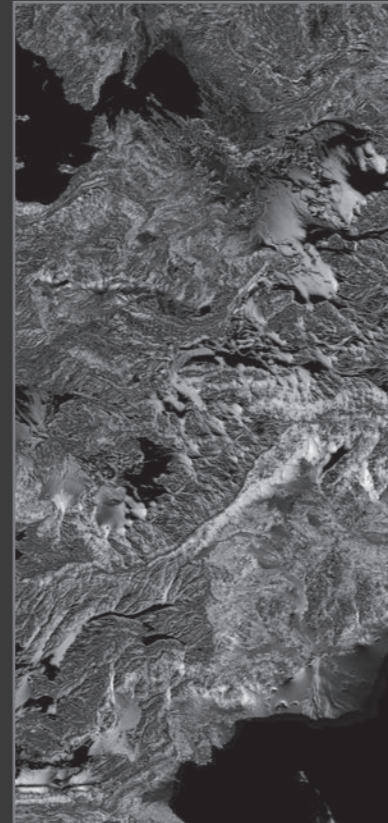


The definition of various parameters and their impact on the final outcome has provided an opportunity for exploration and a quest to reach diverse lands. Here, I have analyzed the distinct effects of different parameters on the final output.

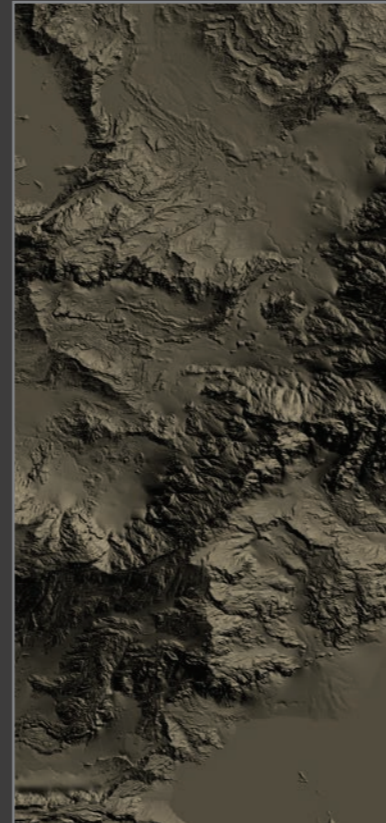
■ RockMap



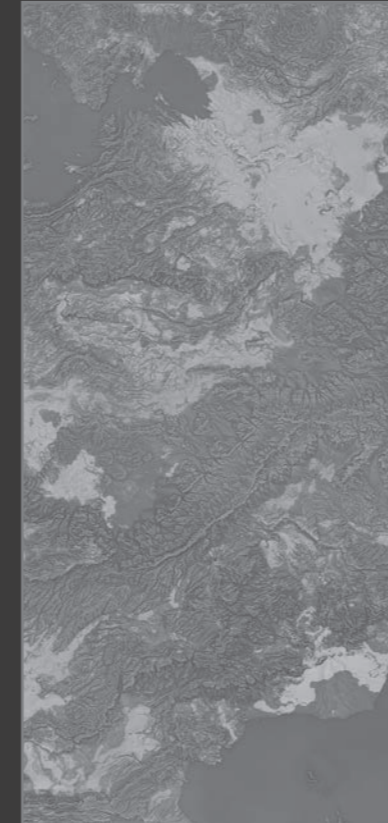
■ Velocity



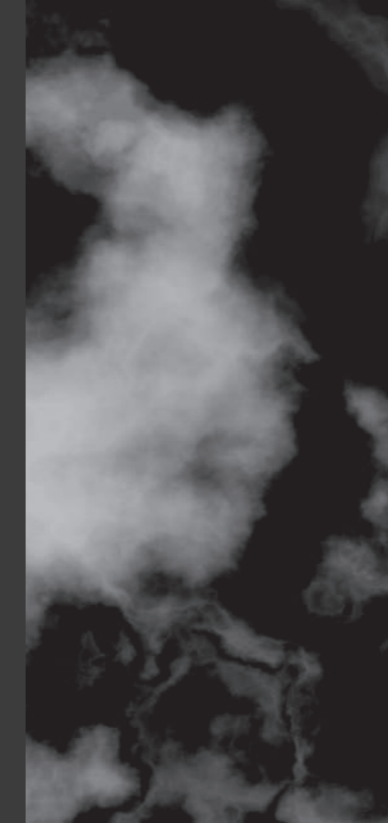
■ Heightfield



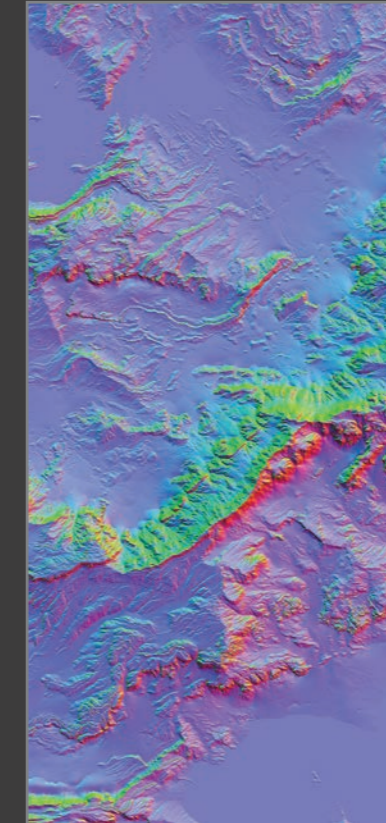
■ Texture



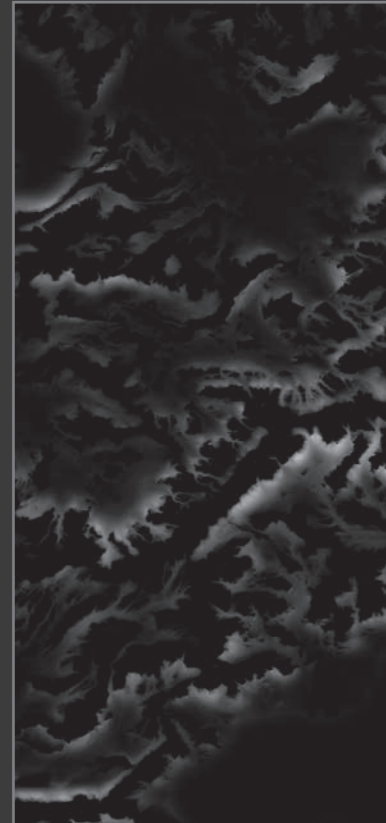
■ Voronoi

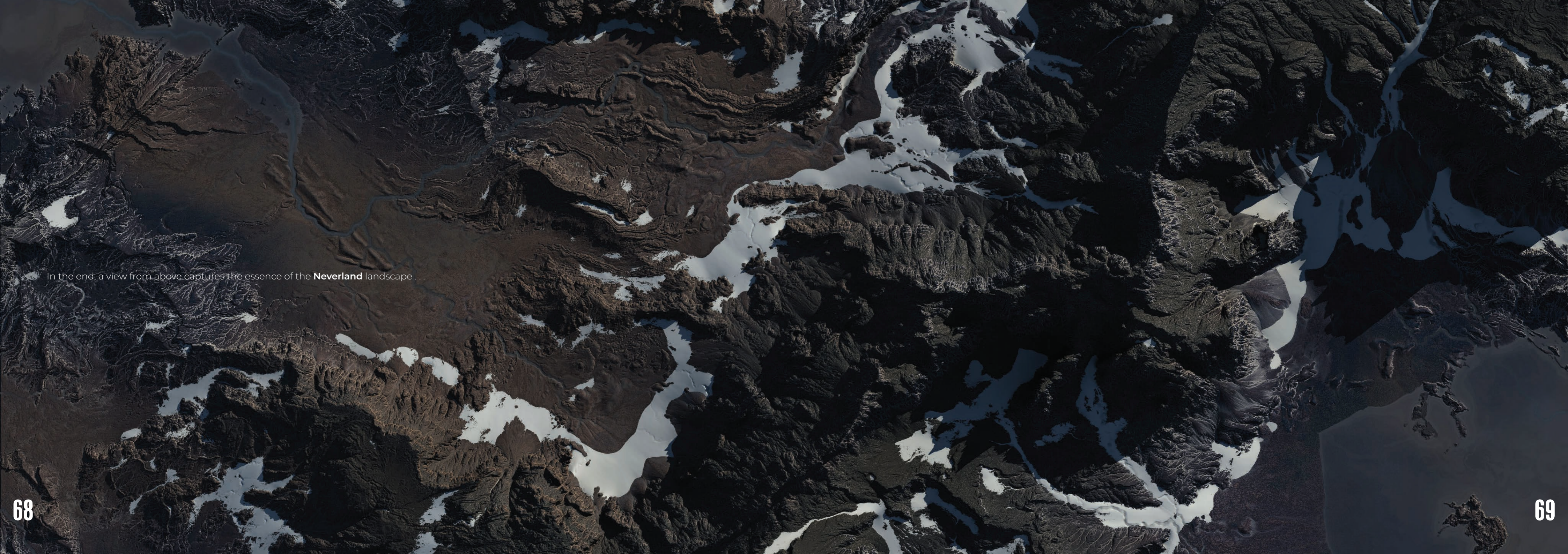


■ Normal Map

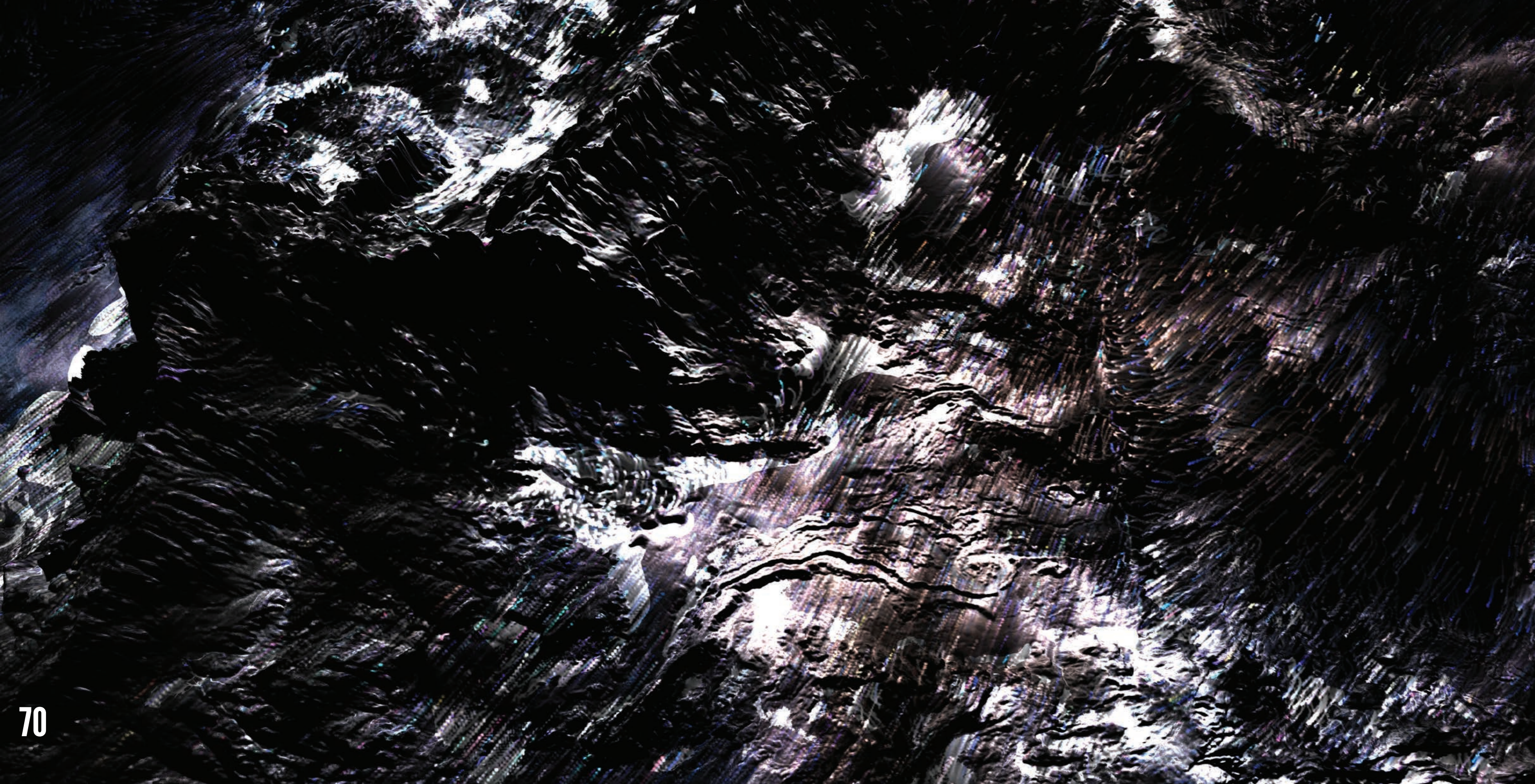


■ Occlusion

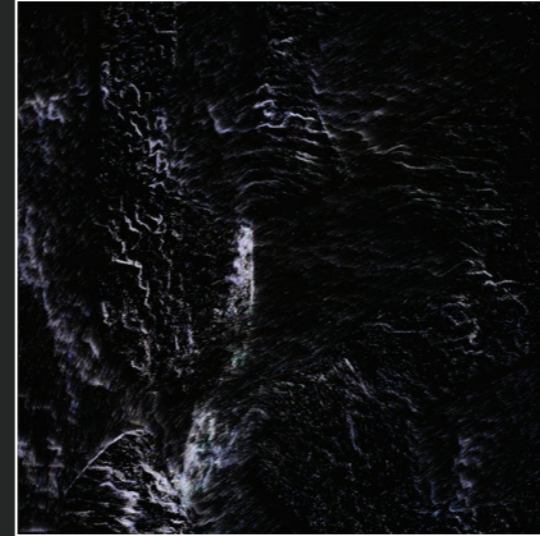
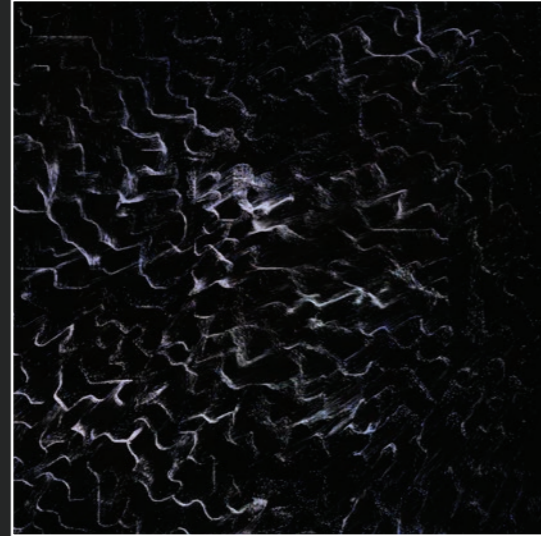
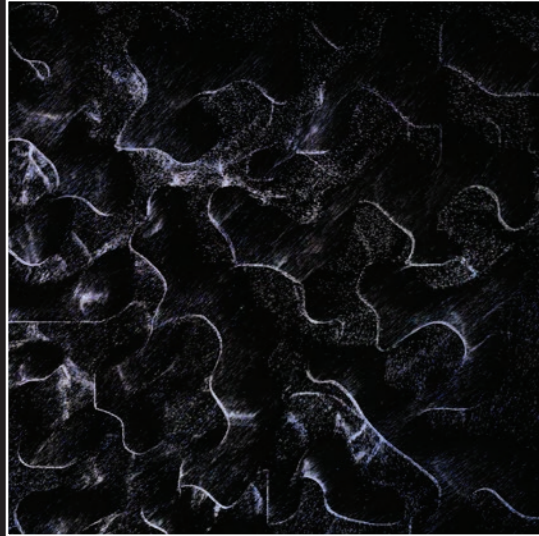




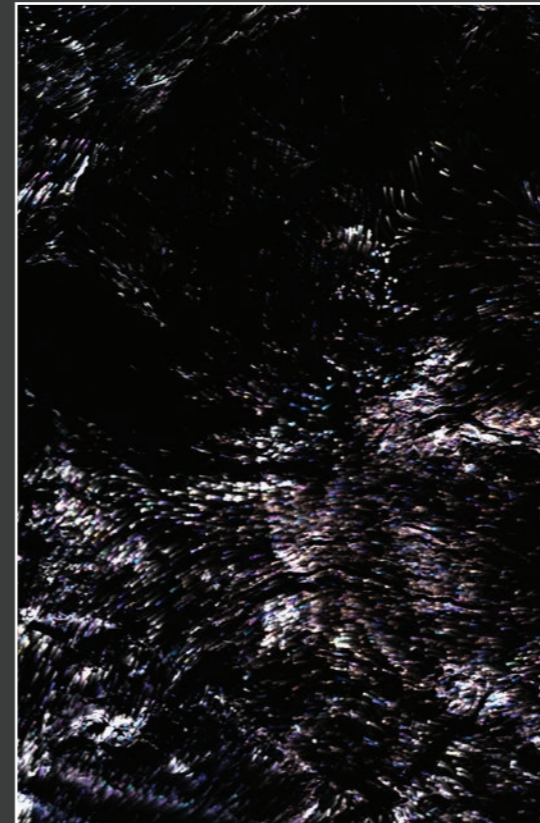
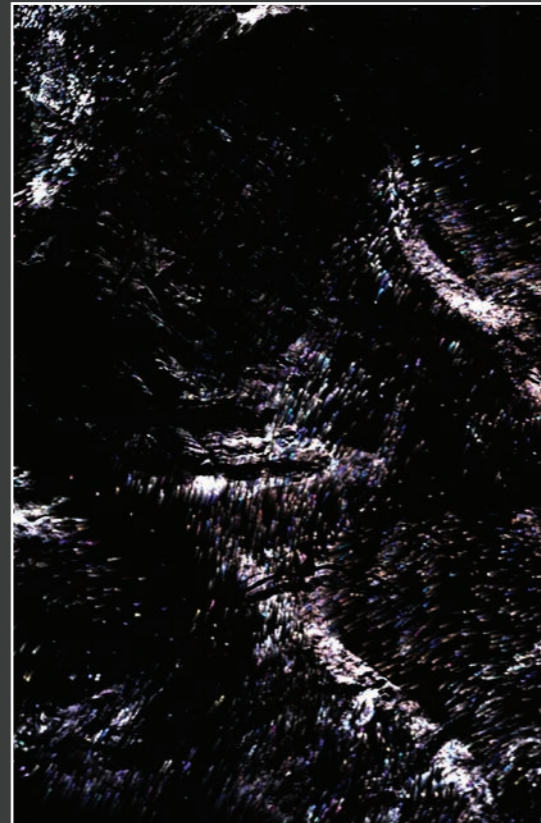
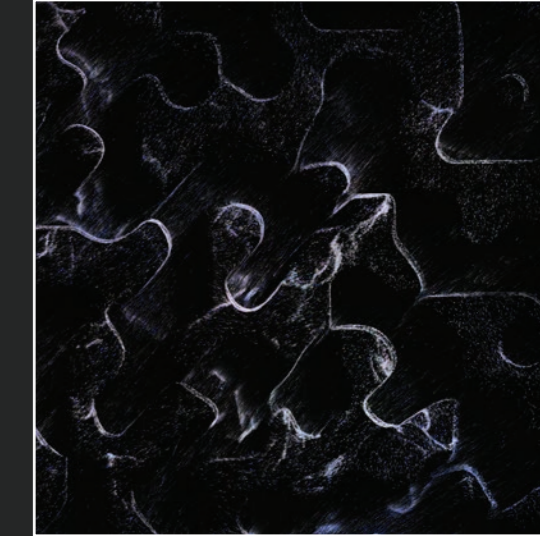
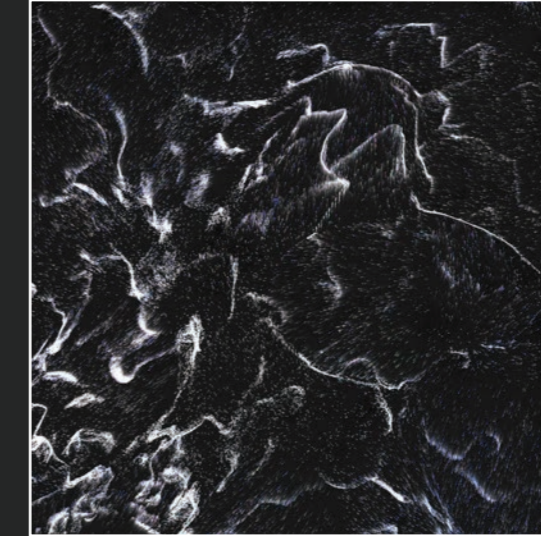
In the end, a view from above captures the essence of the **Neverland** landscape . . .



At this stage, by inputting the form into the TouchDesigner software, I sought to rediscover it in a different space. However, this time, not with materials simulating the model in relation to the real world, but rather with materials designed from the realm of digital space that aided my imagination in envisioning various forms and patterns.



In this section, we observe diverse patterns of materials generated parametrically. These images showcase a selection of the patterns produced.



In this segment, the outcome of generatively created materials can be examined and observed on the land.

