

# Portfolio

2018–2026

Mateusz Bochyński: Architect x Agentic Engineer

# About

## Education

- 2017–2018 **Civil Engineering**  
Gdańsk University of Technology
- 2018–2019 **Architecture, Engineering Studies**  
Gdańsk University of Technology
- 2019–2022 **Architecture, Engineering Studies**  
Sopot Academy of Applied Sciences
- 2022–2024 **Architecture, Masters Studies**  
Sopot Academy of Applied Sciences

## Career

- 2017–2019 **Construction Site Assistant**  
cityhouse.com.pl
- 2019–2022 **Junior Architect**  
jotaarchitekci.pl
- 2022–2023 **BIM Modeler**  
TMRW.inc
- 2024–2026 **Architect**  
roarkstudio.pl
- 2024–2026 **QA Tester**  
designbotic.pl
- 2023– **Architect x AI Product Builder**  
mateuszbochynski.com

## Skills

**Software** Revit, 3ds Max, Autocad, Rhino, Grasshopper, Rhino-Inside, V-ray, QGIS, Illustrator, Indesign, Photoshop, Python, Unreal Engine

**Hard** Conceptual Design, Experience with Large-Scale Projects, Problem-Solving, Communication and Collaboration, Research and Analysis, BIM Modeling (Revit), Parametric Design (Grasshopper), 3D Visualization (3ds Max, V-Ray), Generative Design (with AI), Architectural Photography, On-Site Construction Experience Environmental Analysis (with Ladybug Tools), Design Optimization (with Galapagos Solver).

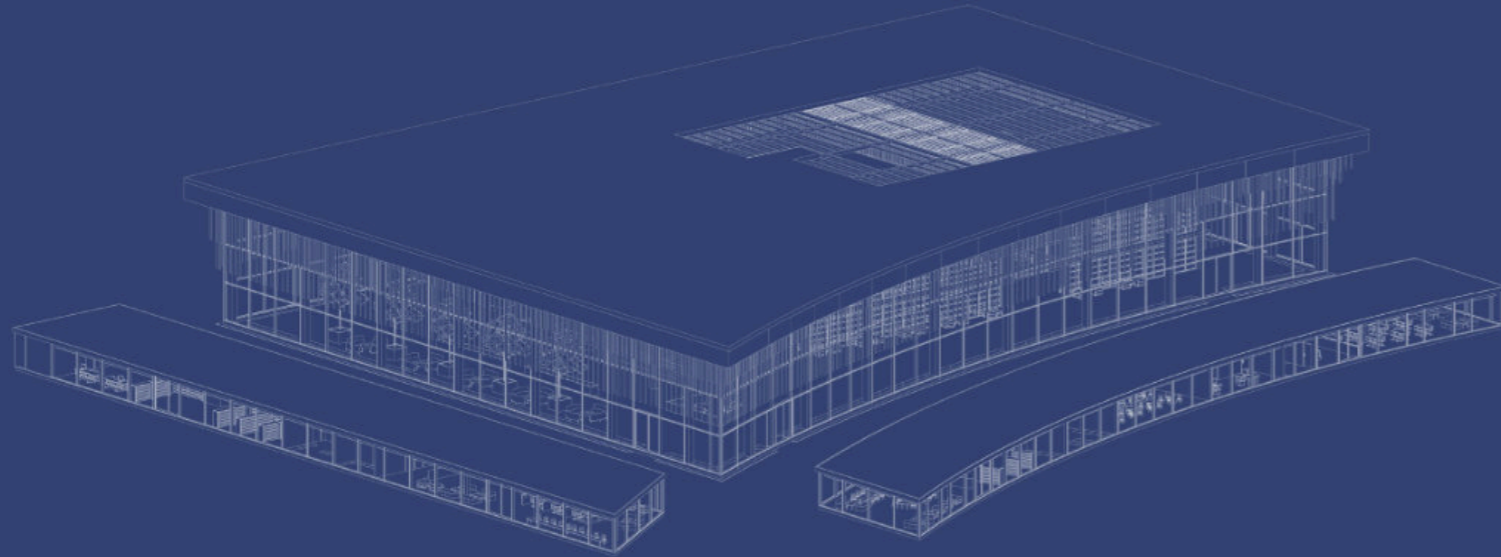


mateuszbochynski.com  
m8@mateuszbochynski.com  
+48 732 190 799  
Warszawa/Gdańsk

# Multipurpose Building

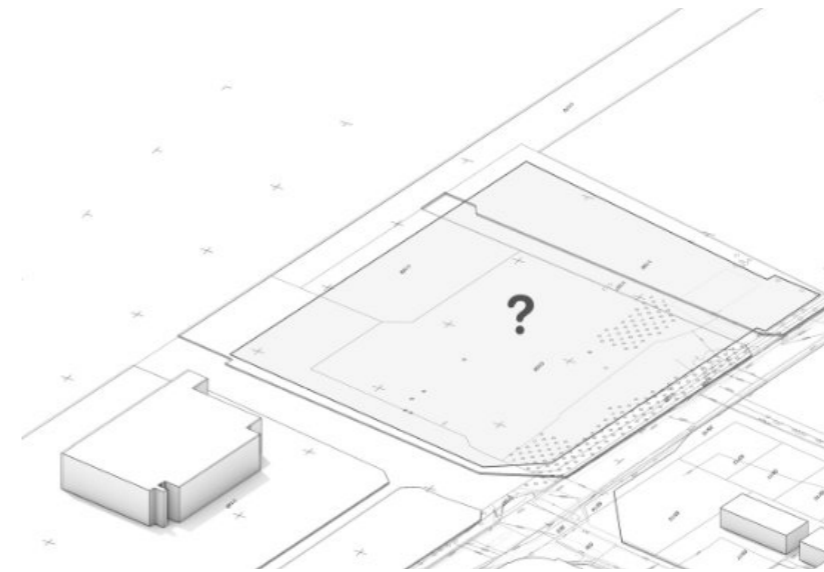
Powstańców Warszawy, Pruszcz Gdański

Master Thesis 2024

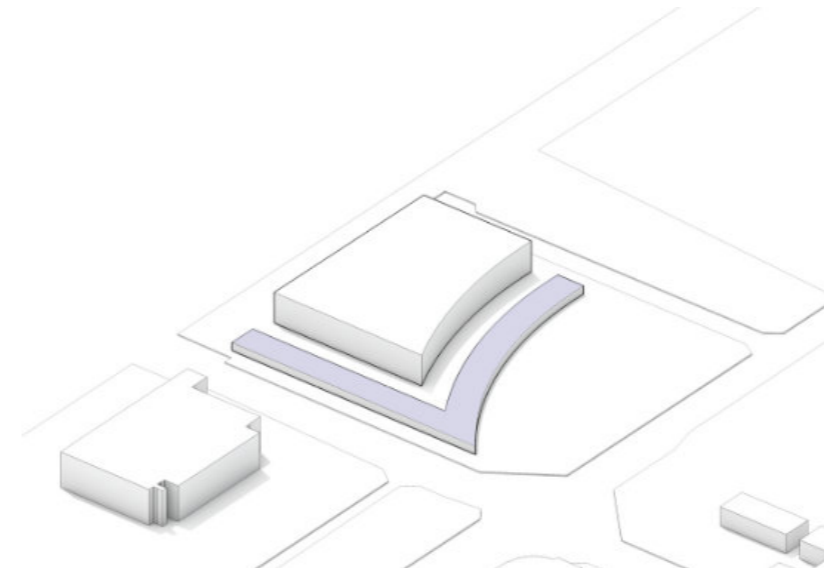


This dynamic design reimagines the modern workplace as a vibrant, community-driven hub. The striking façade, a harmonious blend of sleek metal and warm timber, invites exploration. Inside, adaptable spaces cater to diverse work styles, fostering collaboration and innovation. Expansive glazing floods the interior with natural light, while integrated green spaces enhance well-being. A vibrant café, inviting outdoor terraces, and a multi-functional event space create a destination where work, life, and community intersect.

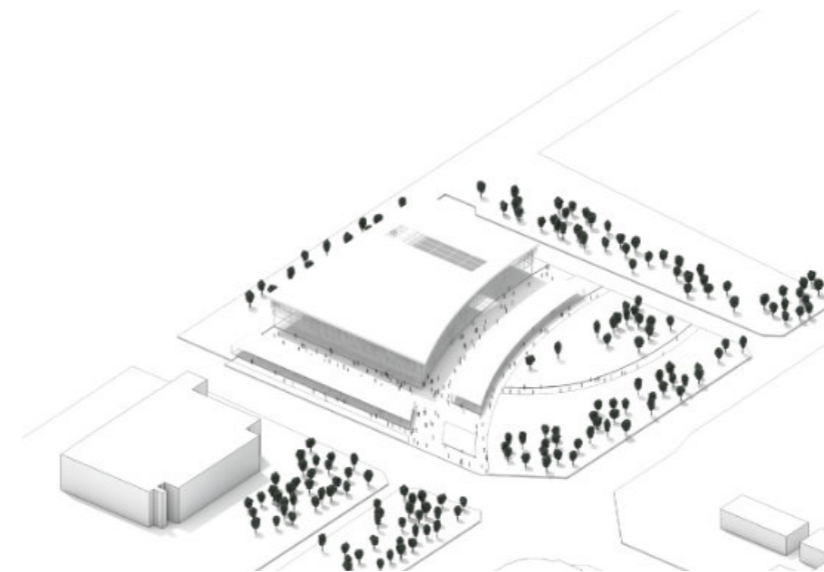
Software: Rhino, Grasshopper, Revit, Rhino-Inside, 3ds Max, V-ray, QGIS



This diagram illustrates the project's site context.



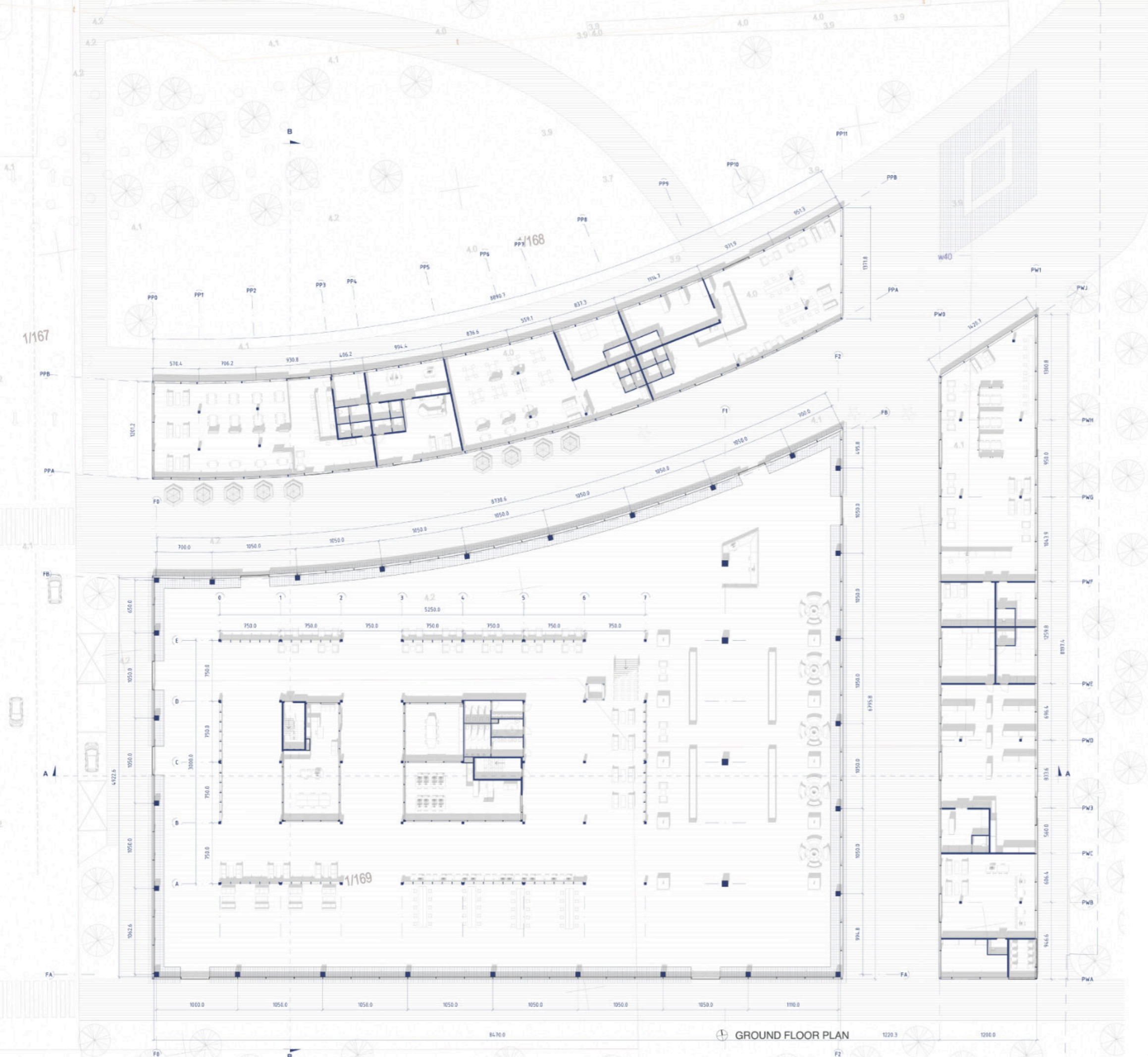
This diagram reveals the conceptual inspiration behind the building's form.



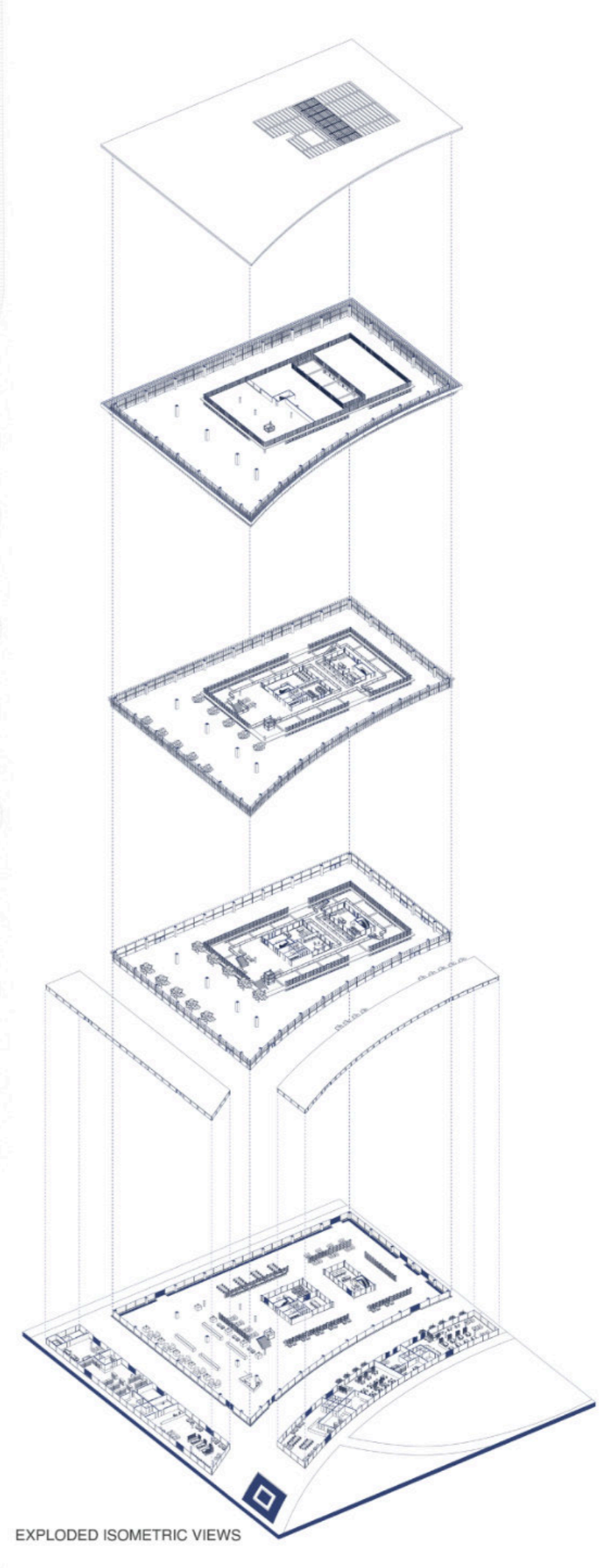
This diagram synthesizes the project's core principles, showcasing the seamless integration of form, function, and sustainability.



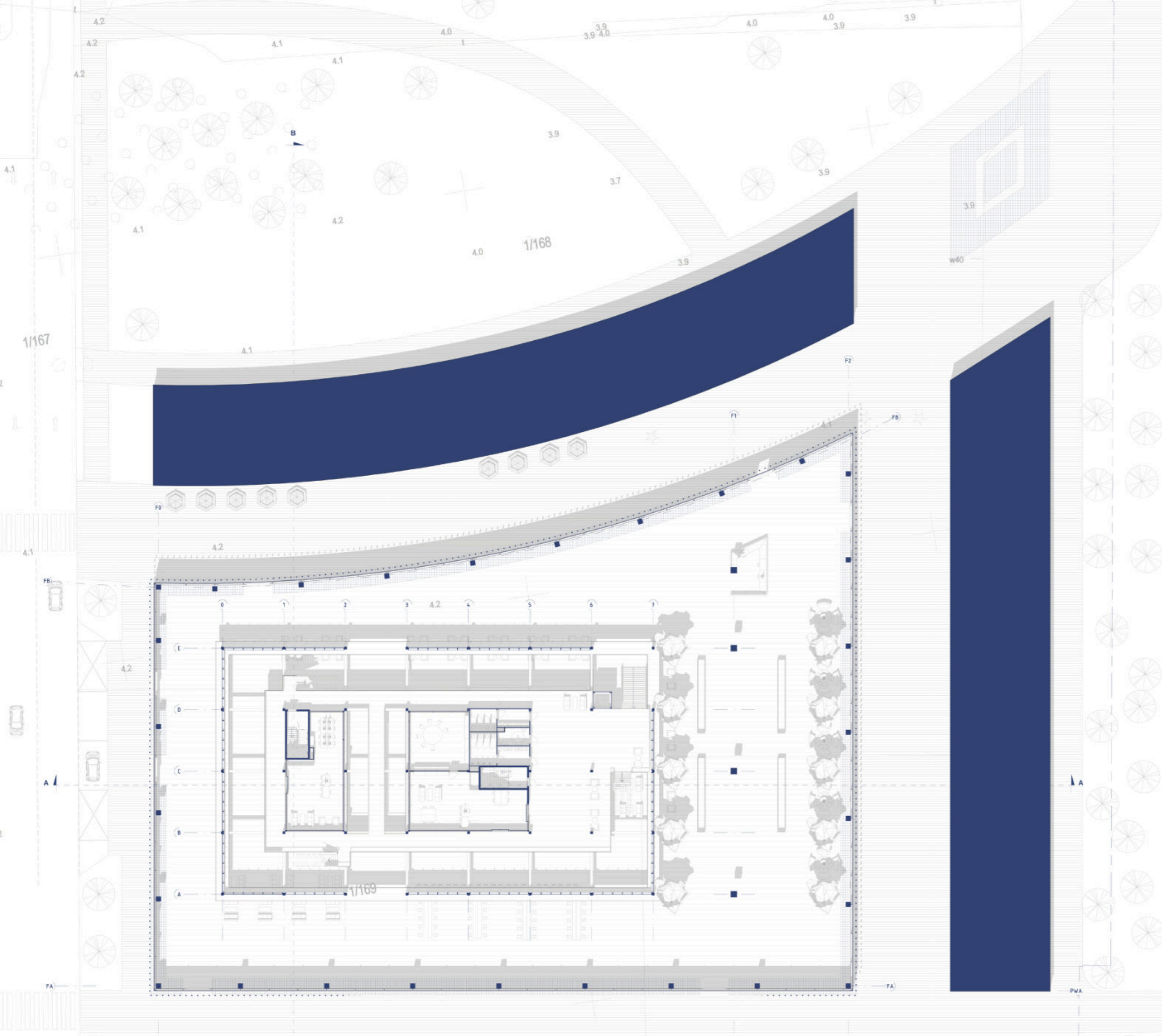




GROUND FLOOR PLAN



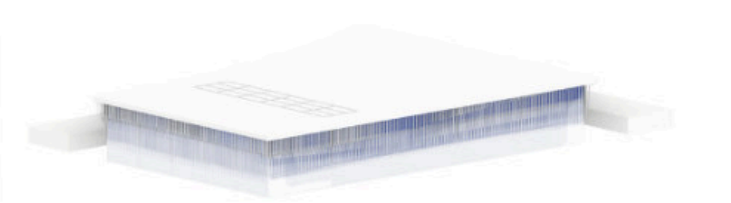
EXPLODED ISOMETRIC VIEWS



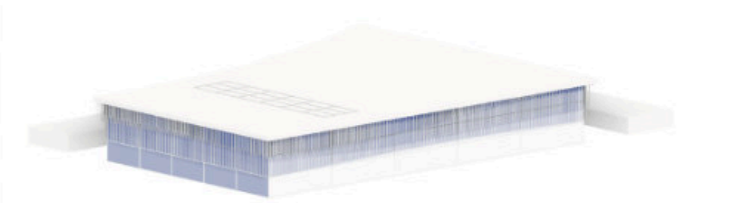
FLOOR PLAN



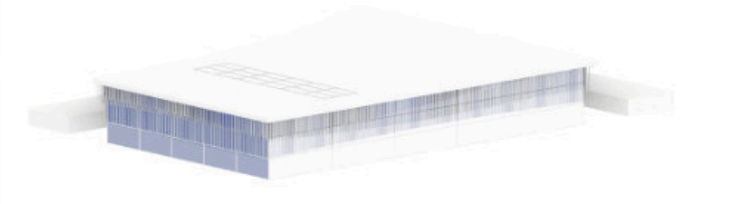
SUN HOURS  
 0 1 2 3 4 5 6 7 8 9 10 11  
 SHADOW STUDIES SW FACADE  
 MARCH EQUINOX



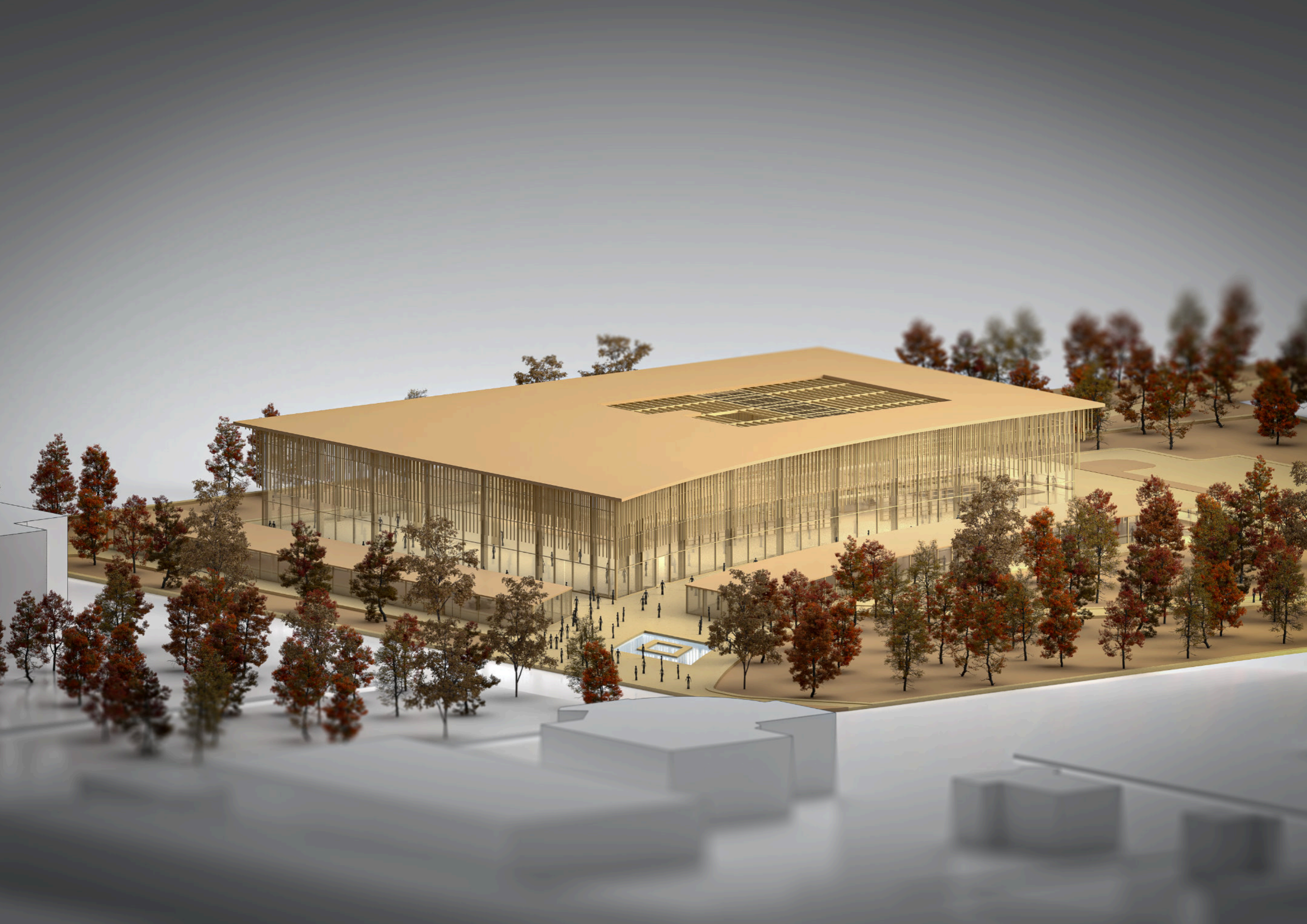
SUN HOURS  
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 SHADOW STUDIES SW FACADE  
 JUNE SOLSTICE

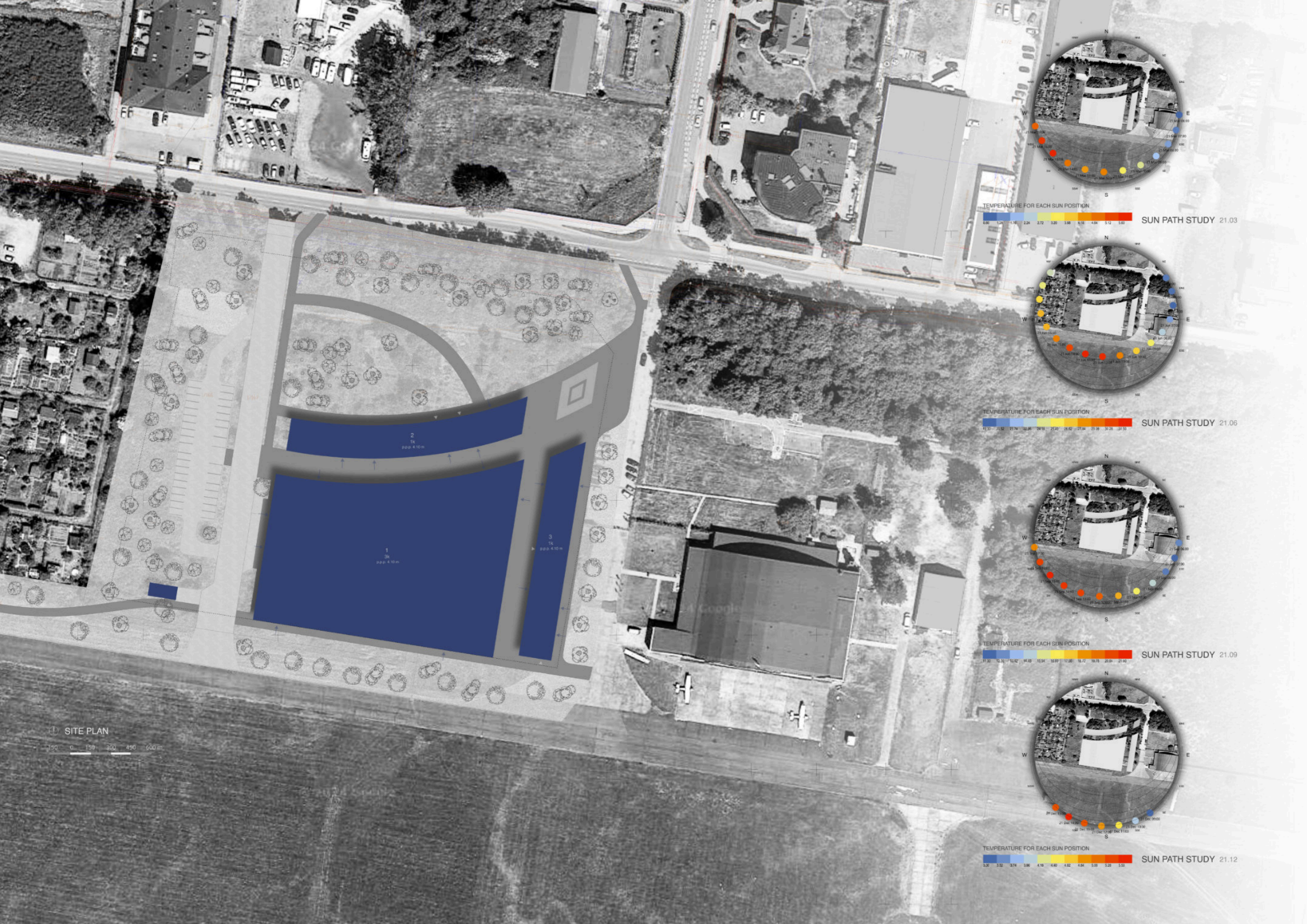


SUN HOURS  
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 SHADOW STUDIES SW FACADE  
 SEPTEMBER EQUINOX



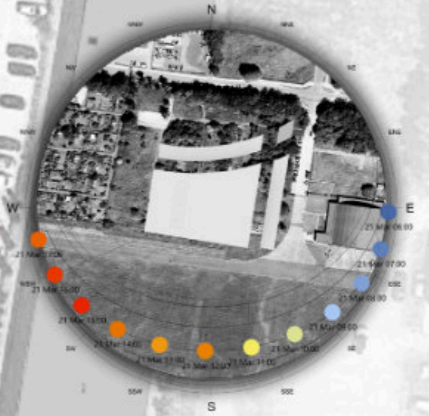
SUN HOURS  
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 SHADOW STUDIES SW FACADE  
 DECEMBER SOLSTICE



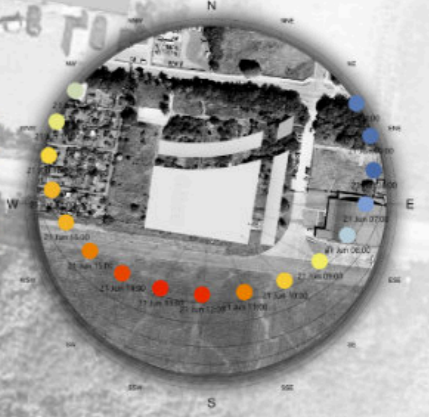


SITE PLAN  
0 150 300 450 600 m

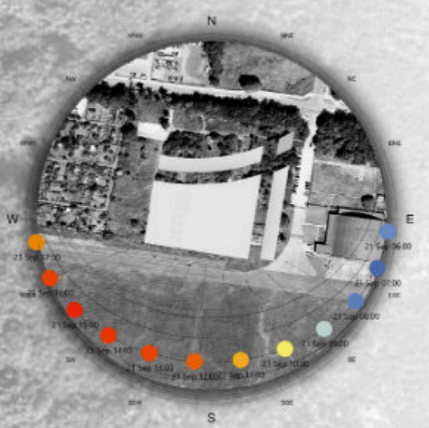
TEMPERATURE FOR EACH SUN POSITION  
SUN PATH STUDY 21.03



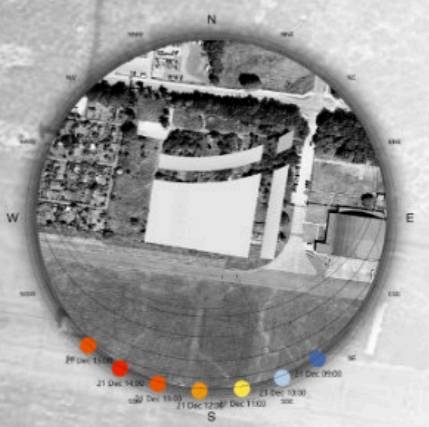
TEMPERATURE FOR EACH SUN POSITION  
SUN PATH STUDY 21.06



TEMPERATURE FOR EACH SUN POSITION  
SUN PATH STUDY 21.09



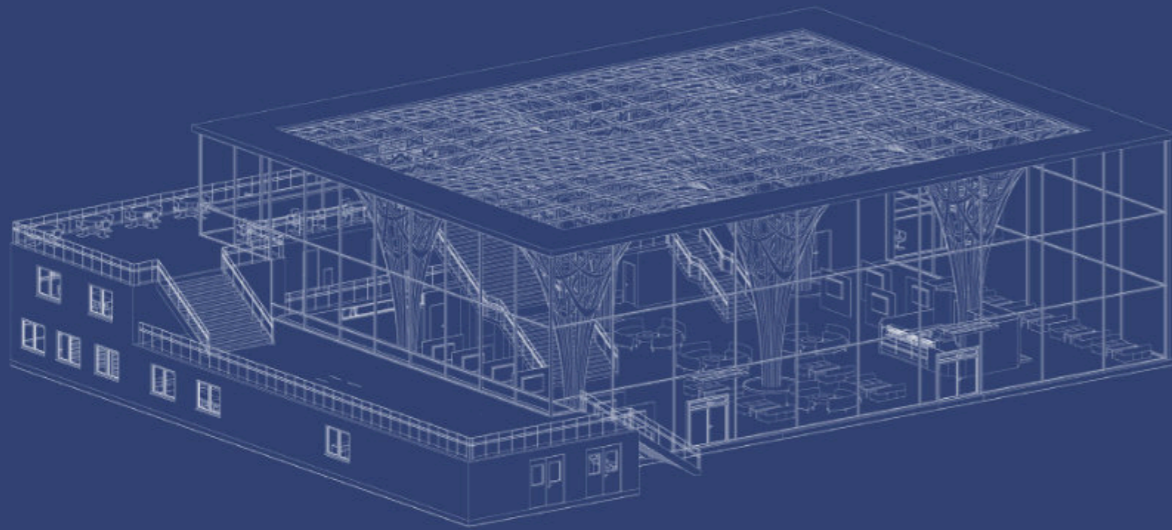
TEMPERATURE FOR EACH SUN POSITION  
SUN PATH STUDY 21.12



# Community Center

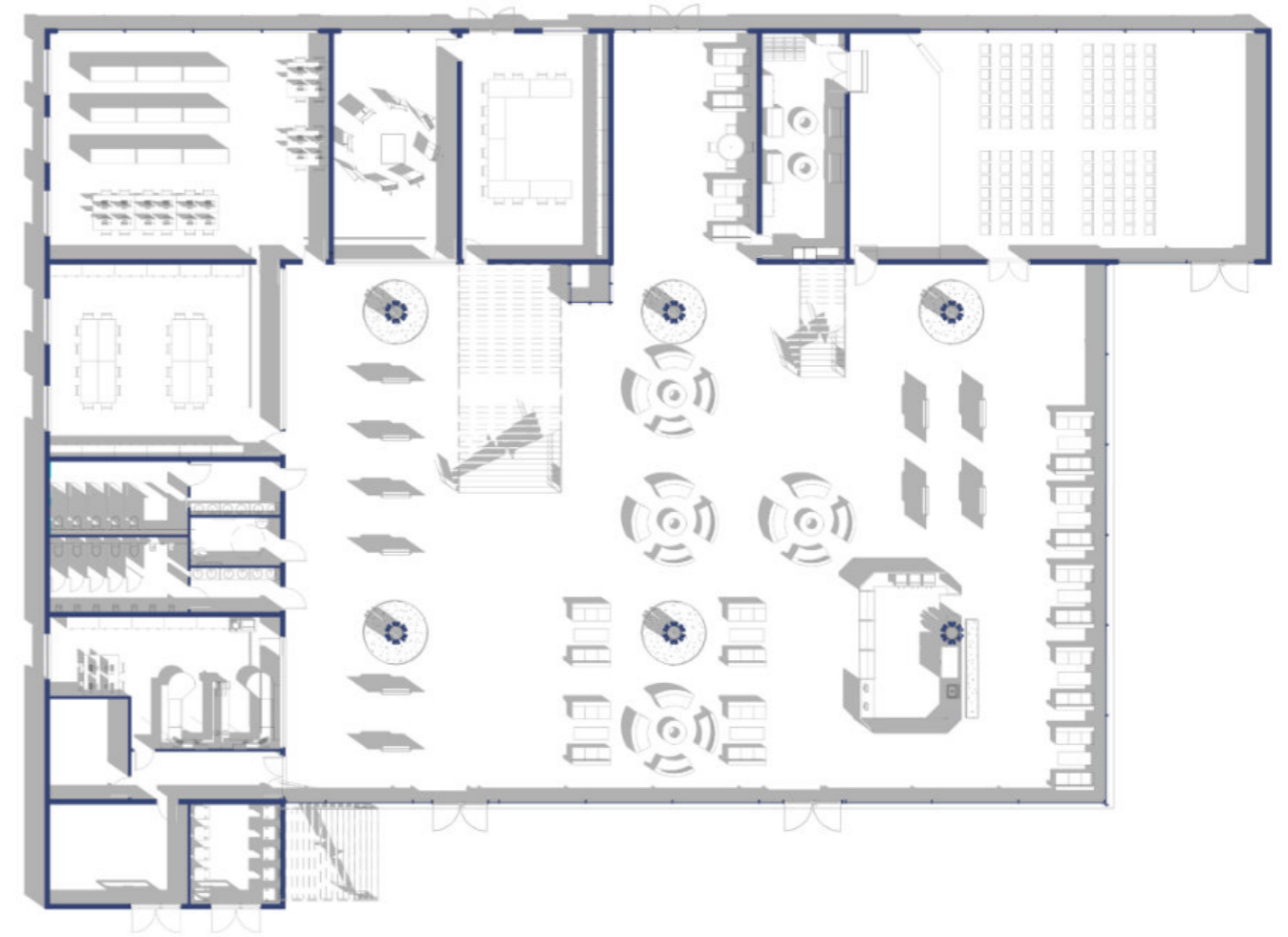
Jednoróżca, Gdańsk

School Project 2022



This community-focused courthouse design reimagines civic architecture as a catalyst for connection and well-being. The building's signature feature, a parametrically designed timber structure, creates a warm and inviting atmosphere while showcasing cutting-edge sustainable construction techniques. The versatile interior accommodates a range of functions, including exhibition spaces for local schools, NGO offices, therapy rooms, training facilities, and a welcoming café. This multifunctional hub fosters community engagement, promotes social justice, and serves as a beacon of architectural innovation.

Software: Rhino, Grasshopper, Revit, Rhino-Inside, 3ds Max, V-ray



Ground Floor Plan





## Interior Spaces: An Open Invitation to Light, Warmth, and Community

The interior of the courthouse is a testament to the transformative power of architecture. Open, airy spaces bathed in natural light invite community interaction and foster a sense of belonging.

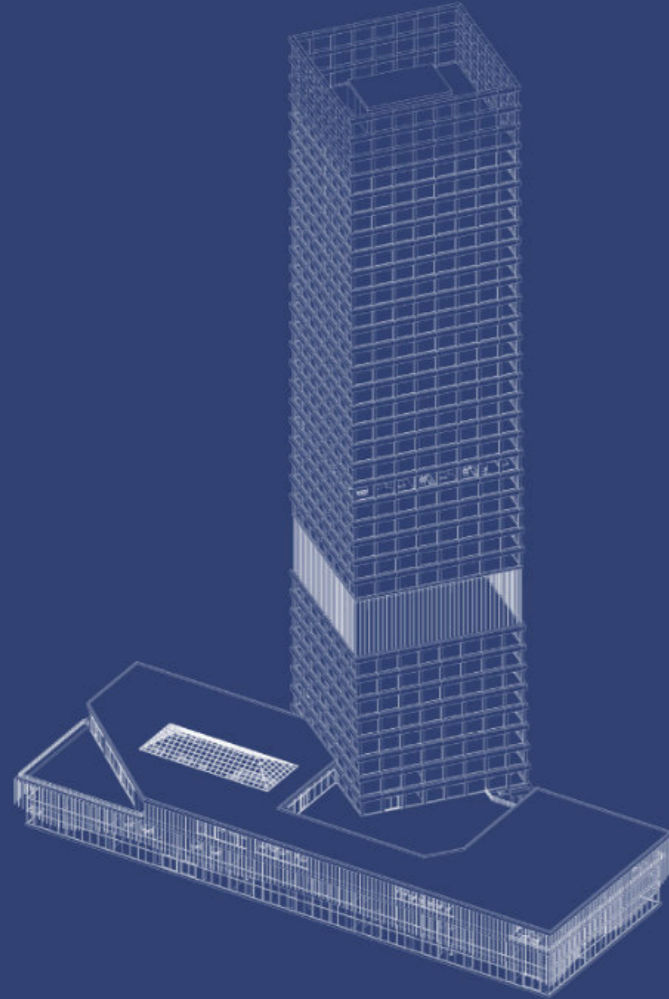


The soaring ceiling, reminiscent of a majestic forest canopy, filters sunlight into a dappled dance of light and shadow. This interplay of natural elements creates a serene environment that promotes tranquility and reflection, while the intricate latticework of the timber structure adds a touch of organic elegance.

# Gdańsk Shipyard Residential Tower and Retail Podium

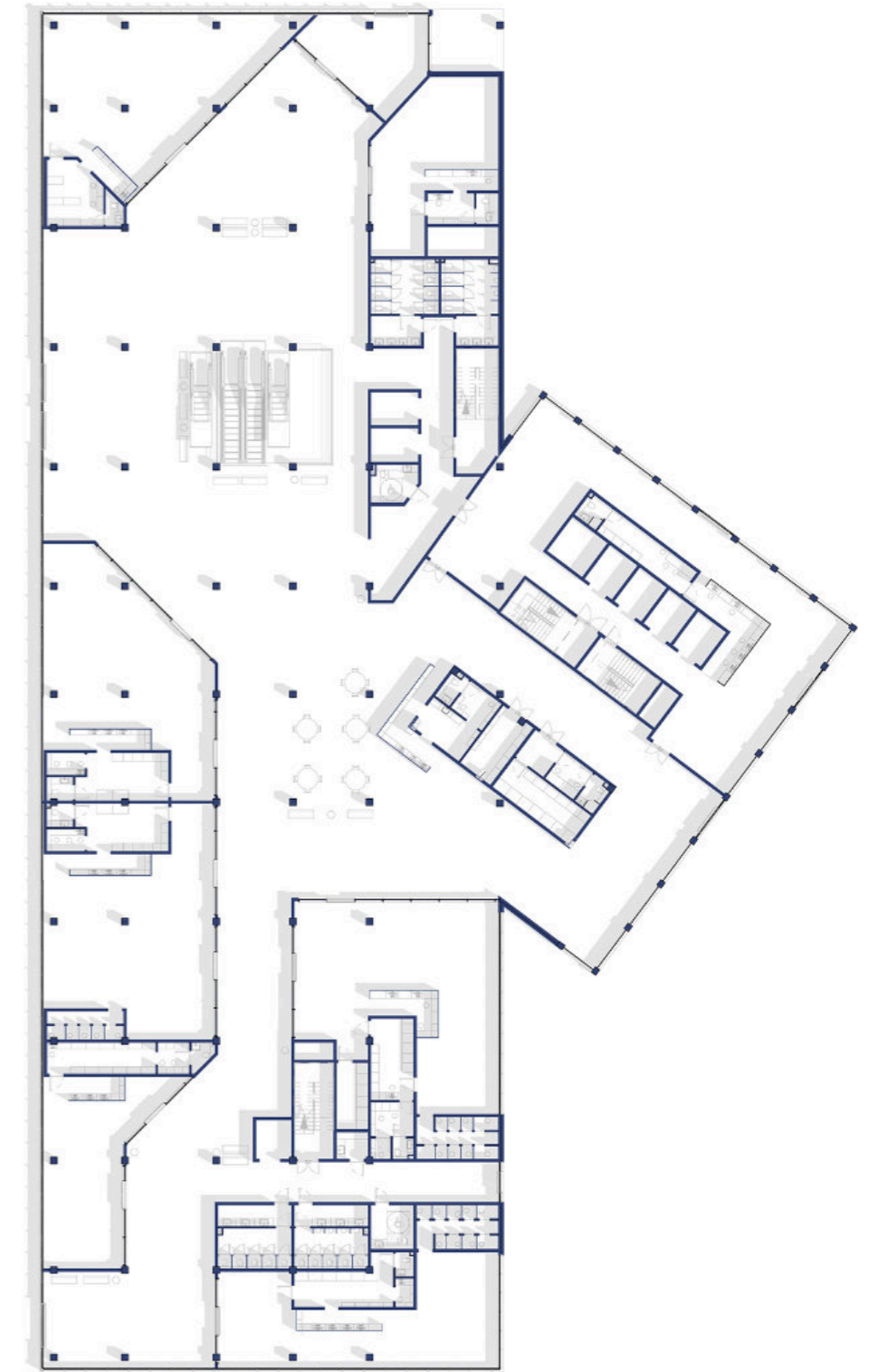
Dokowa, Gdańsk

Engineering Thesis 2022



This landmark residential tower, rising from a vibrant podium of retail and dining spaces, redefines urban living within the ongoing revitalization of the historic Gdańsk Shipyard. The design celebrates the site's industrial heritage while embracing a sustainable future. The tower's elegant form, clad in weathered corten steel, creates a striking contrast against the sky, echoing the patina of the shipyard's past. Its podium activates the street level, fostering a lively community atmosphere and contributing to the ongoing transformation of this iconic location.

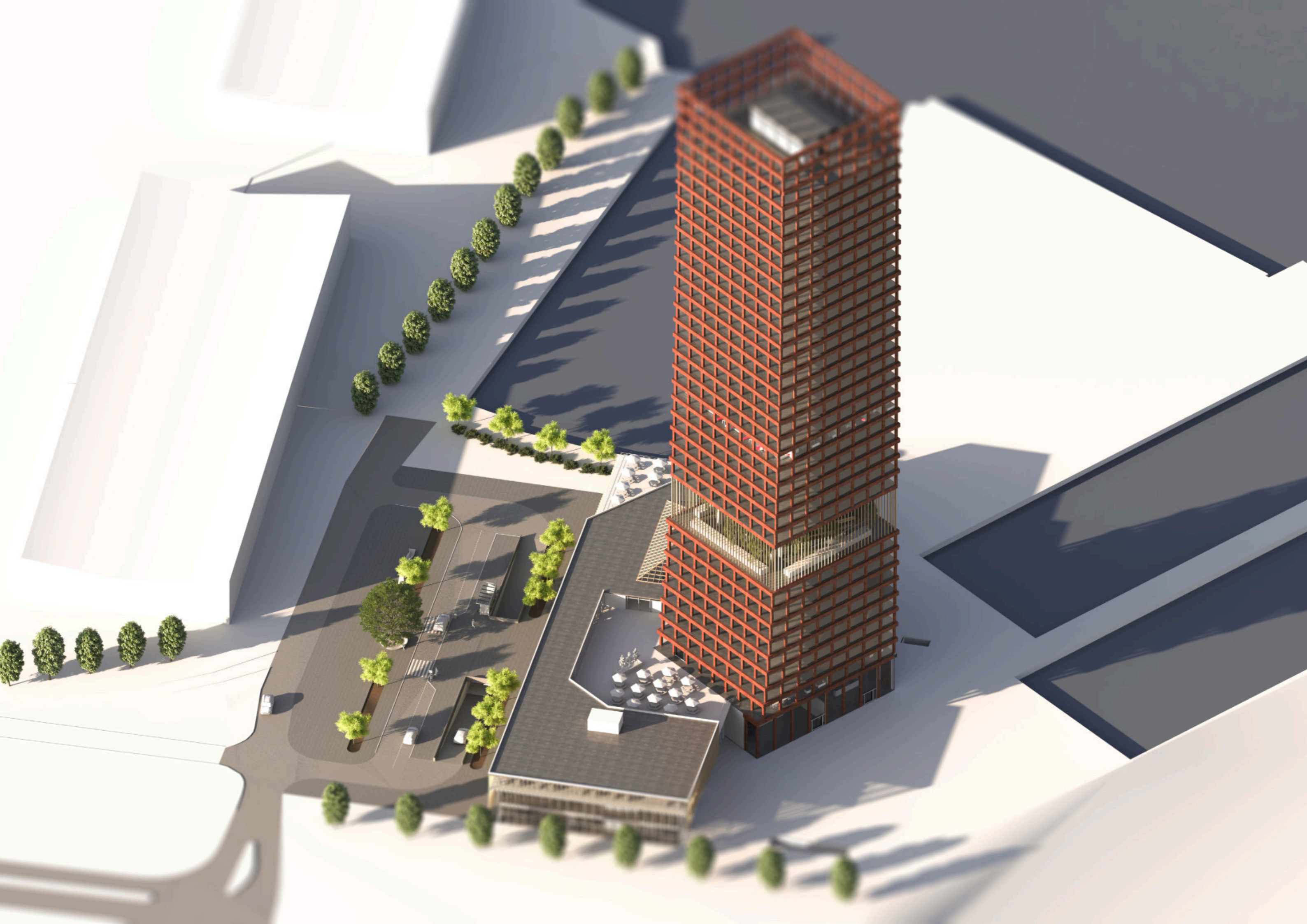
Software: Rhino, Grasshopper, Revit, Rhino-Inside, 3ds Max, V-ray

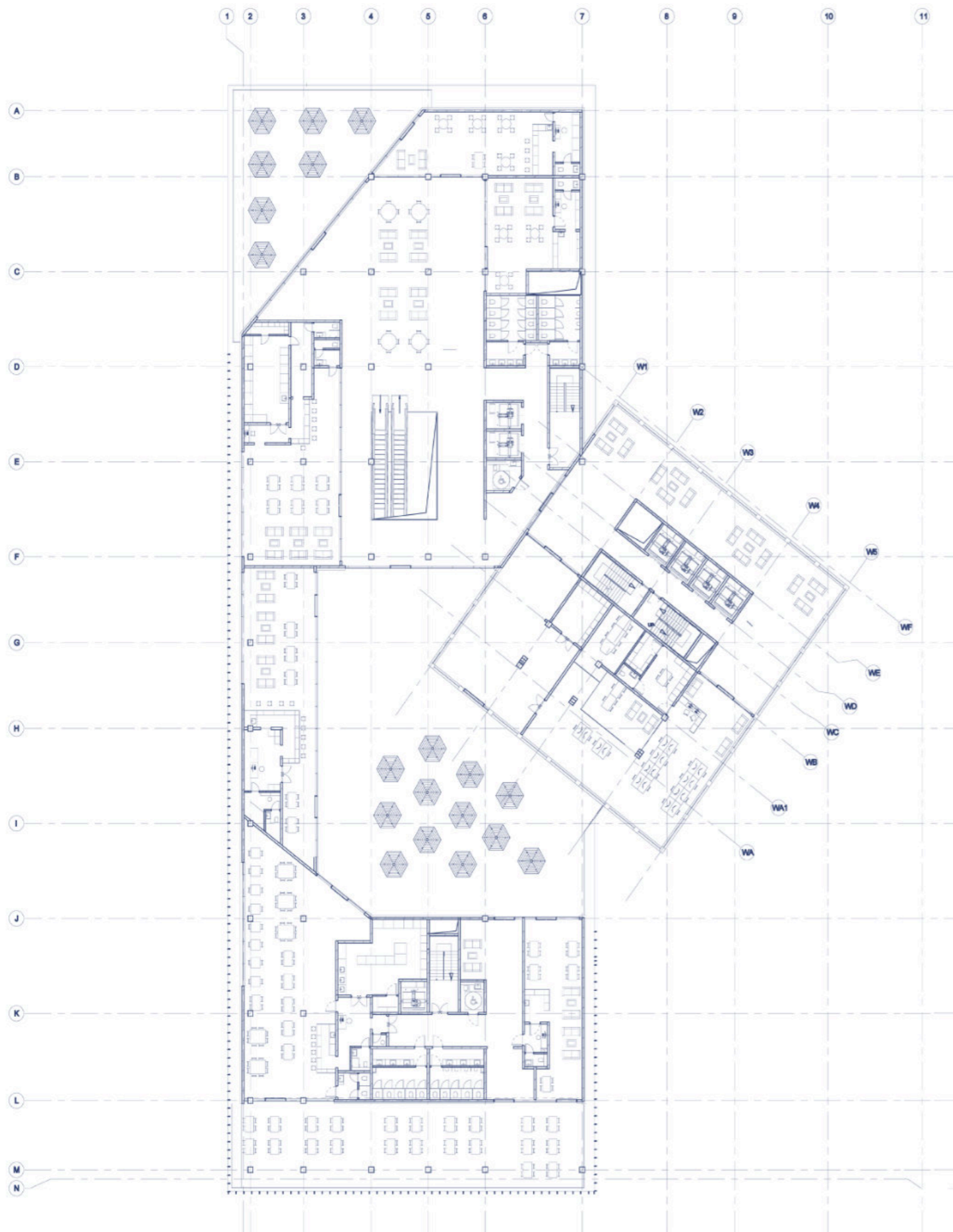


Ground Floor Plan

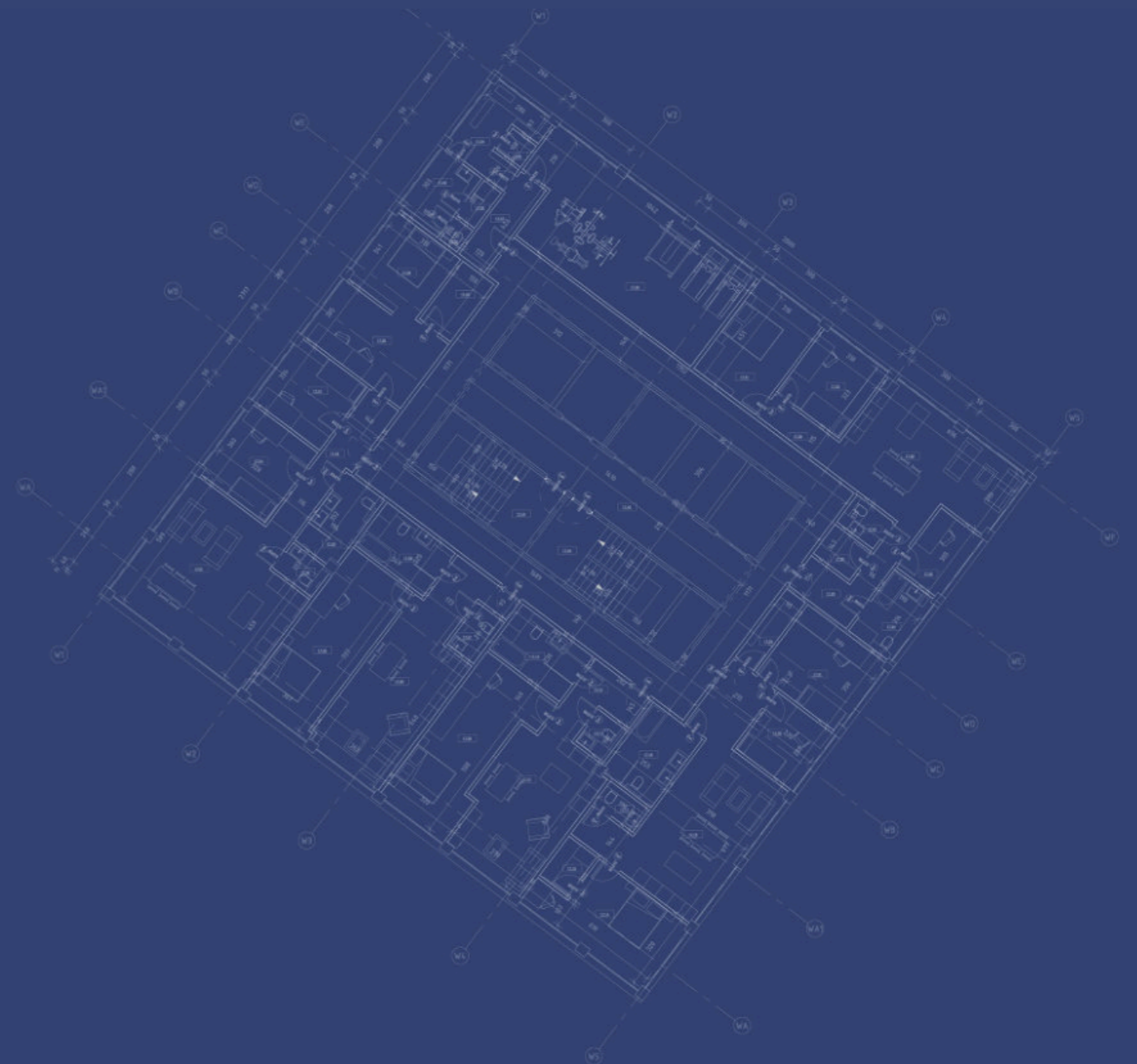


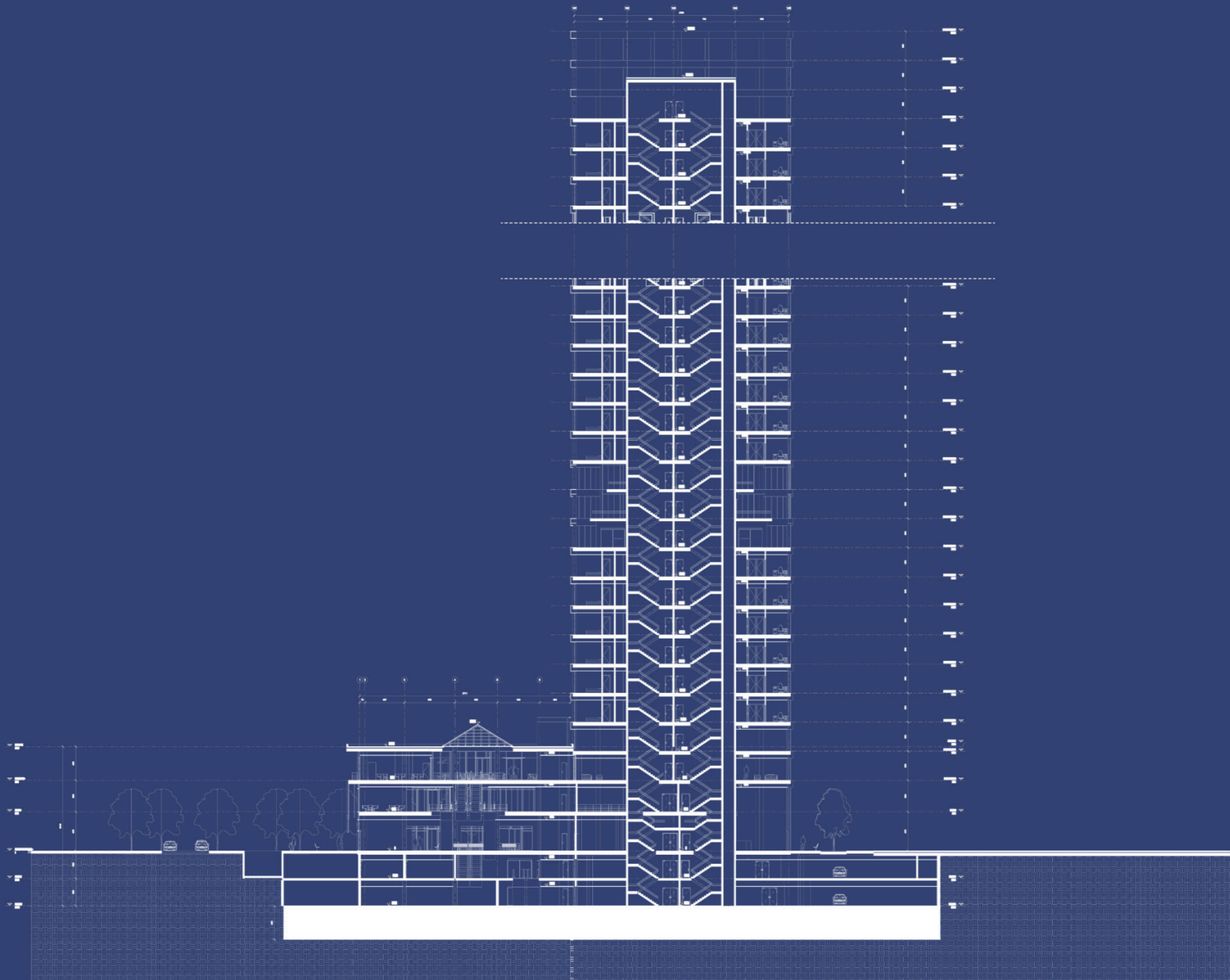






The residential tower's repetitive floor plan maximizes efficiency and views, offering a variety of adaptable living spaces bathed in natural light. On the left, the top floor of the podium reveals a dynamic intersection where the tower and retail levels converge. This thoughtfully designed space provides residents with seamless access to the podium's diverse amenities, fostering a vibrant community atmosphere where work, life, and leisure intertwine.



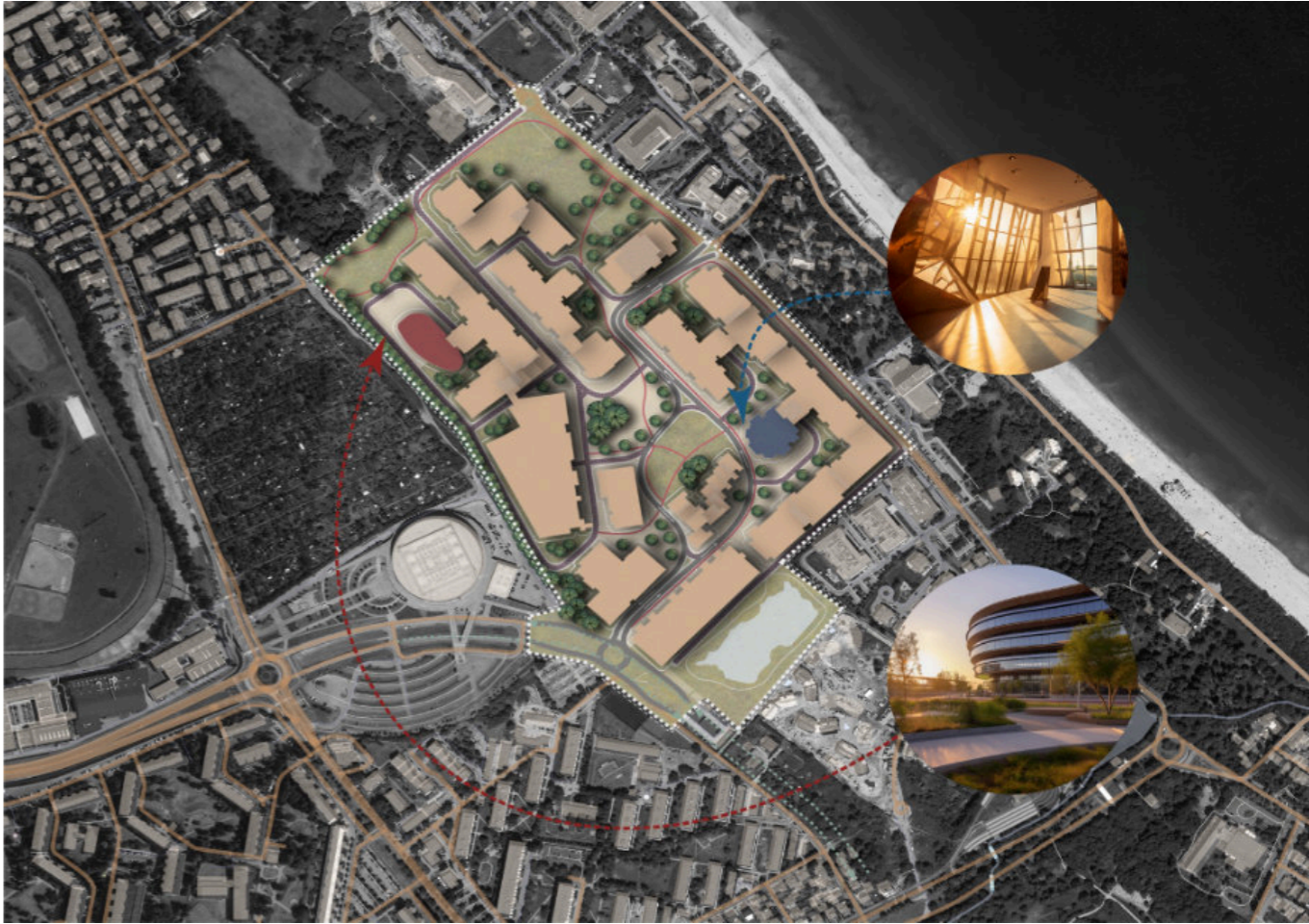
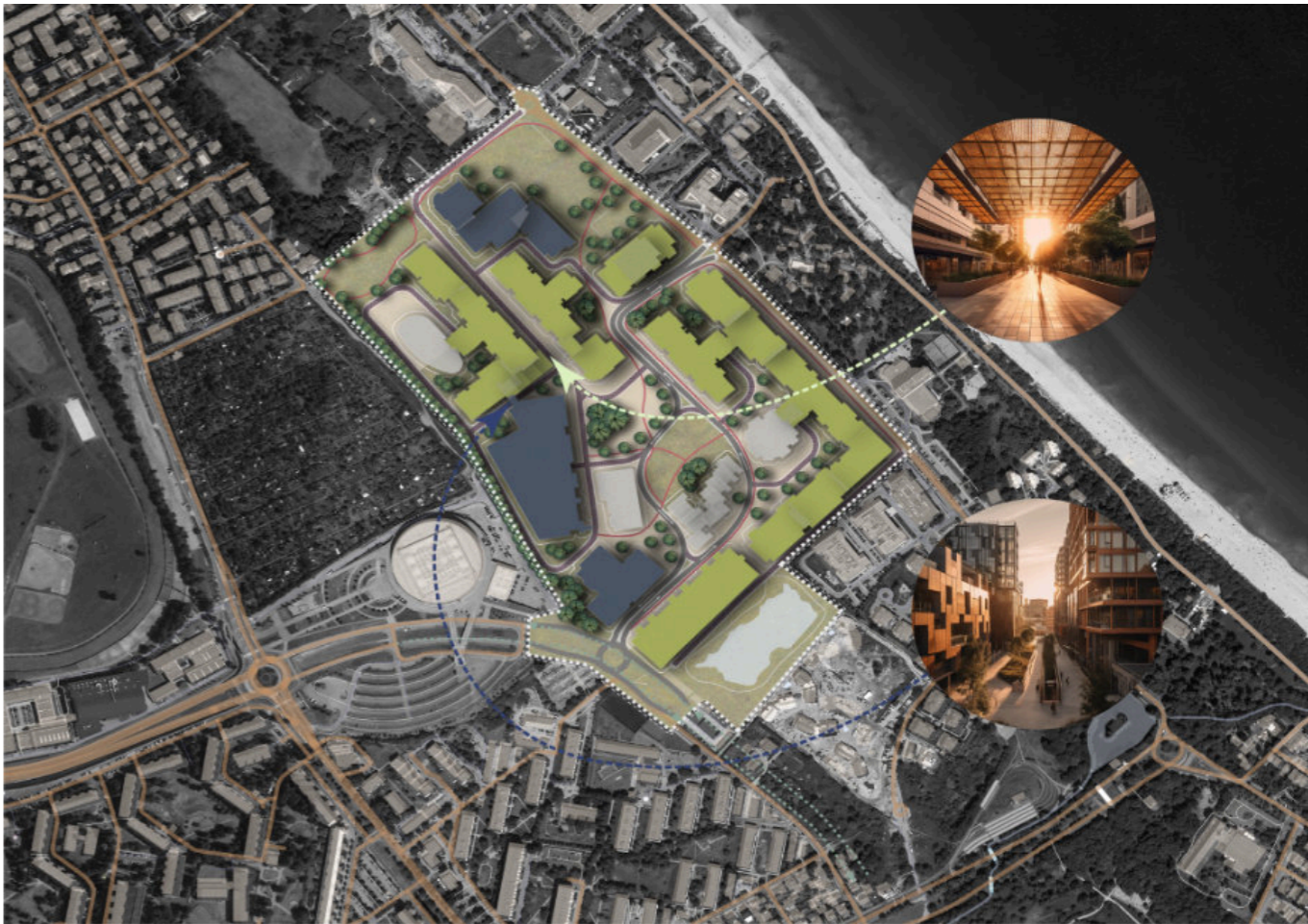


# Sopot's 15-Minute City: A New Urban Vision Inspired by Ørestad's Modern Design

School Project 2023

Inspired by the innovative urban planning of Ørestad, Copenhagen, this masterplan envisions a new district in Sopot that prioritizes walkability, sustainability, and community connection. The design integrates residential, commercial, and recreational spaces within a 15-minute radius, creating a self-sufficient neighborhood where residents can access essential amenities and services within a short walk or bike ride. The architecture embraces modern aesthetics while harmonizing with the natural landscape, fostering a vibrant and livable urban environment.

Software: Midjourney, Illustrator







# Residential Community

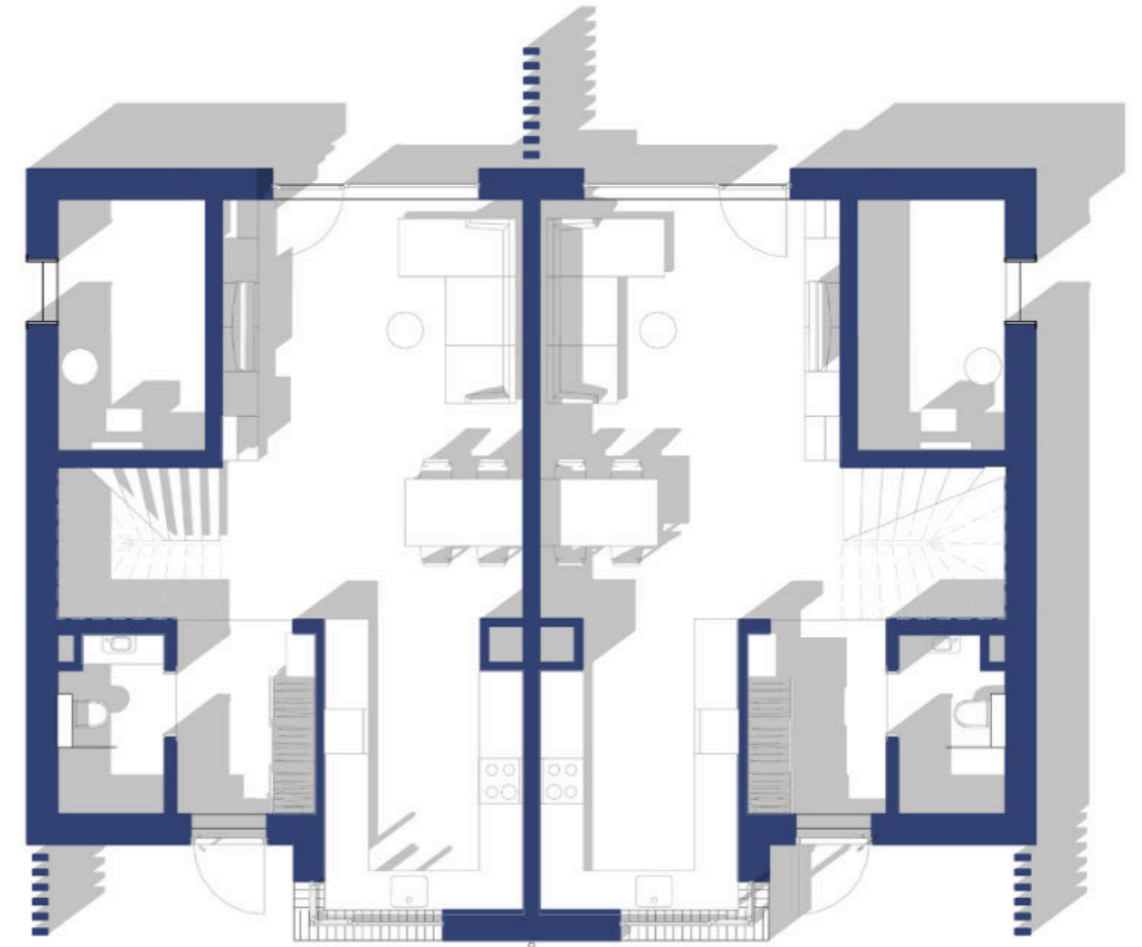
Gdynia

Commercial Project



Nestled in the peaceful outskirts of Gdynia, this residential development offers a harmonious blend of modern living and natural serenity. The clustered homes, designed with clean lines and natural materials, are surrounded by lush green spaces that provide privacy and a sense of tranquility. Shared amenities and communal areas foster a strong sense of community, while the convenient location offers easy access to the city's vibrant center.

Software: Revit, 3ds Max, V-ray



Ground Floor Plan

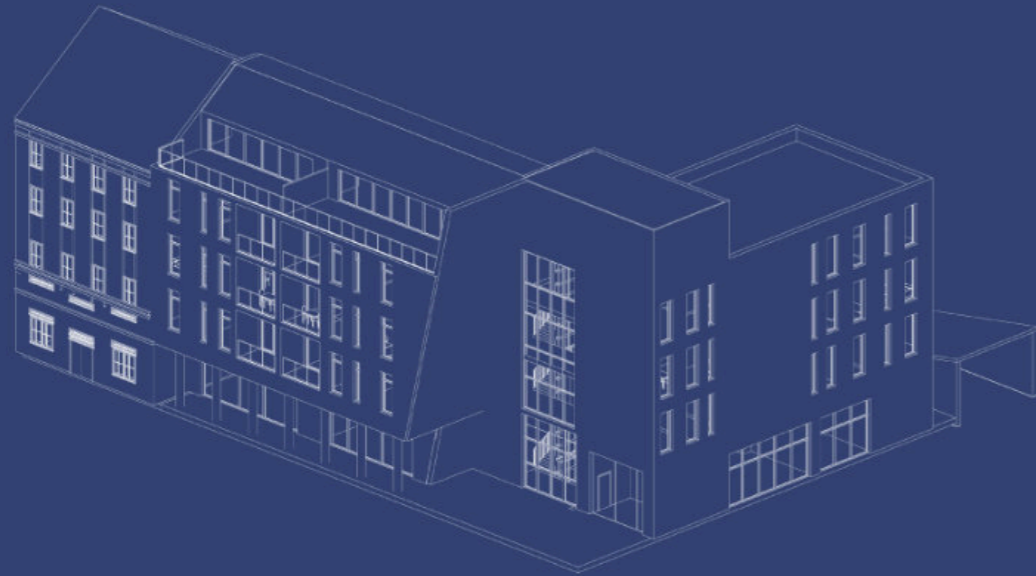




# Residential Building

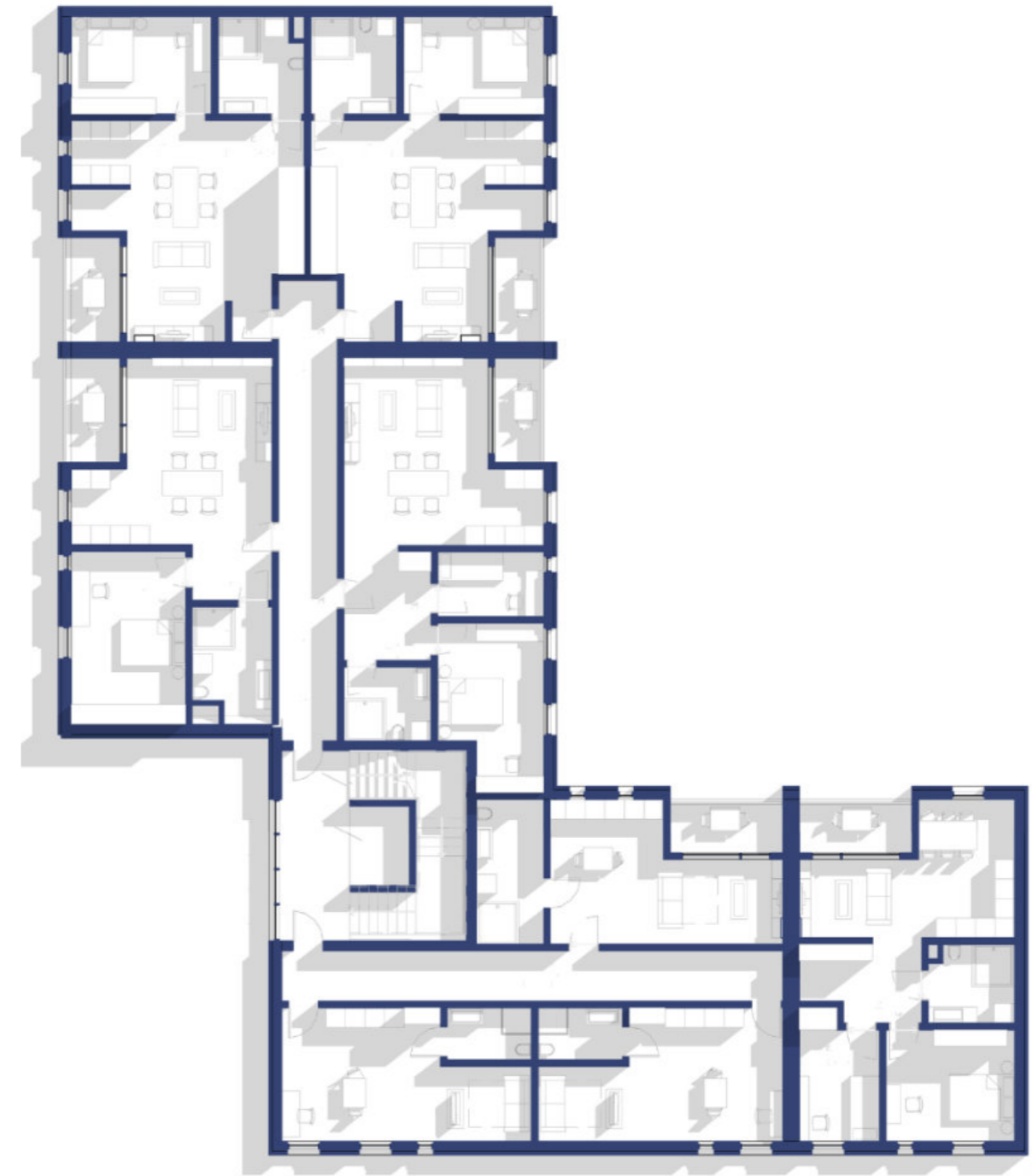
Łąkowa, Gdańsk

School Project 2020



This modern residential building fills a gap in Gdańsk's historic Dolne Miasto district. Its brick façade and dynamic vertical fins create a contemporary aesthetic that complements the surrounding architecture. The interior offers comfortable living spaces bathed in natural light.

Software: Revit, Lumion



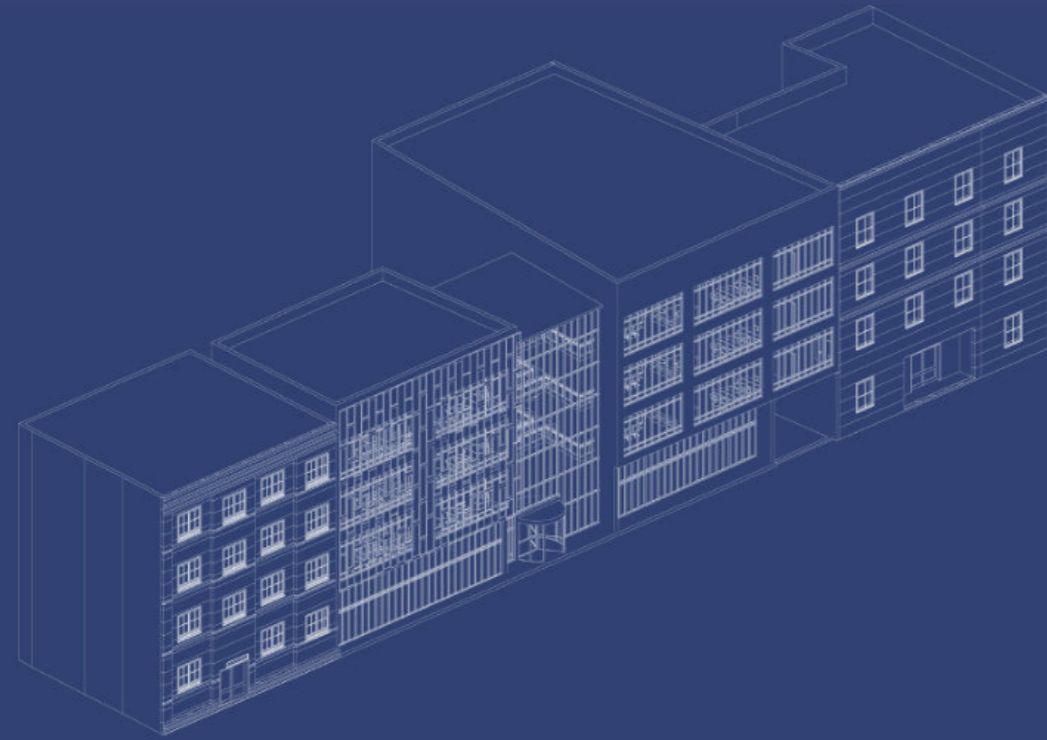
Ground Floor Plan



# Office Building

Portowa, Gdynia

School Project 2020



This contemporary office building, nestled within Gdynia's modernist heart, seamlessly integrates with the city's rich architectural heritage. Its clean geometric facade, a harmonious blend of glass and metal, complements the surrounding buildings while offering a fresh perspective. Expansive windows flood the interior with natural light, while the open floor plan provides flexible workspaces that foster collaboration and innovation. The building's ground floor seamlessly integrates with the streetscape, inviting passersby to explore its vibrant commercial spaces.

Software: Rhino, Grasshopper, Revit, Lumion



Ground Floor Plan

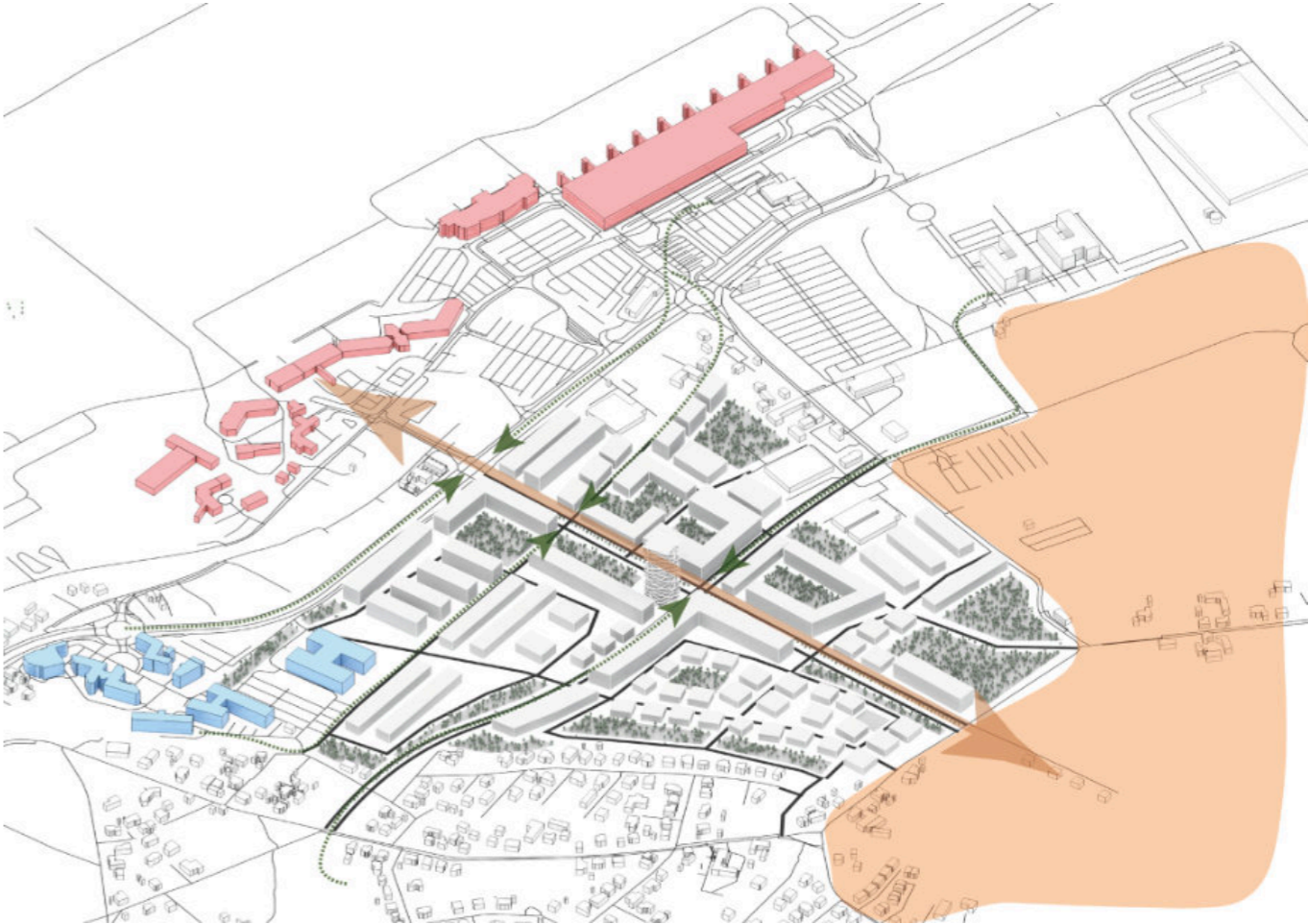
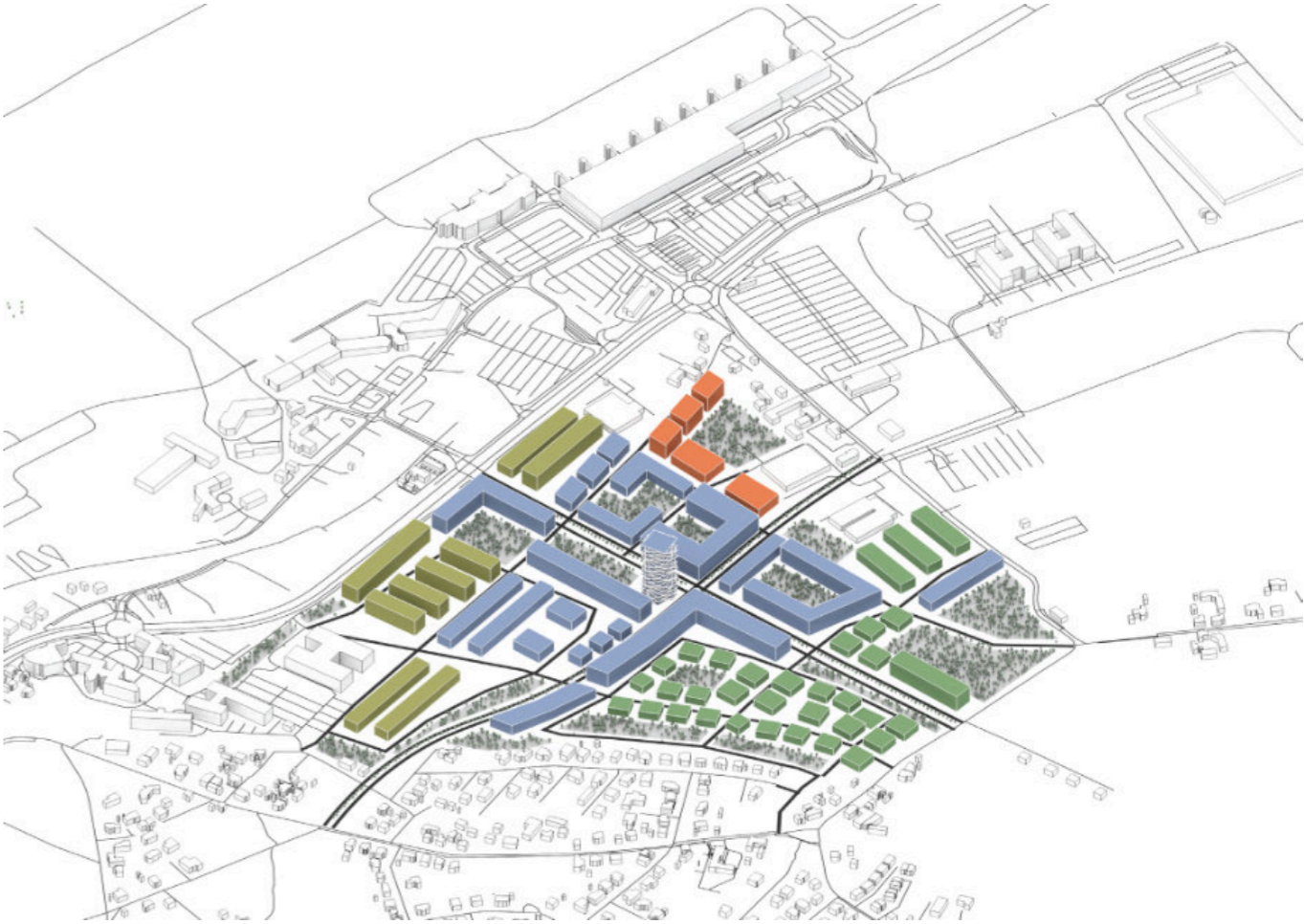
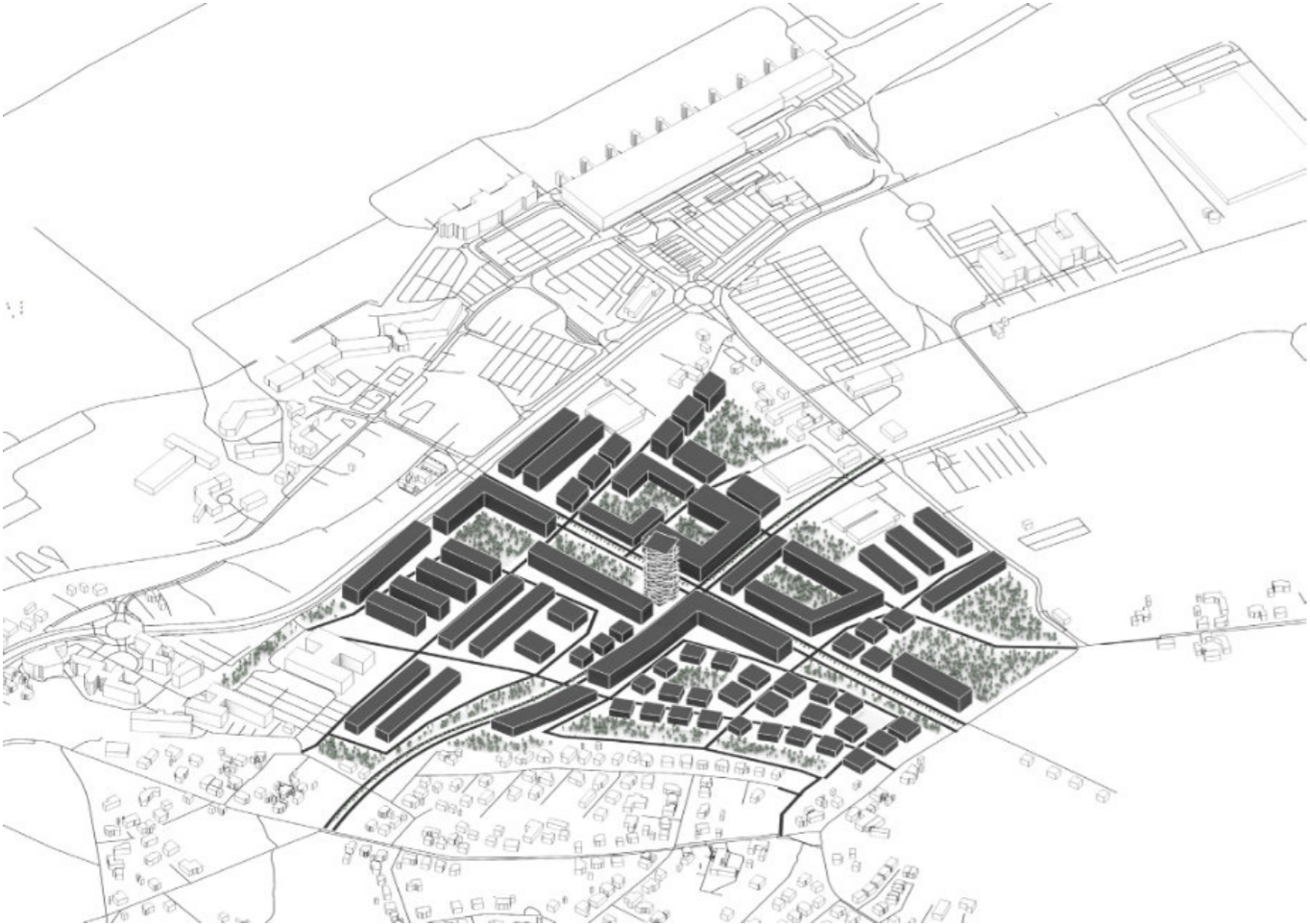


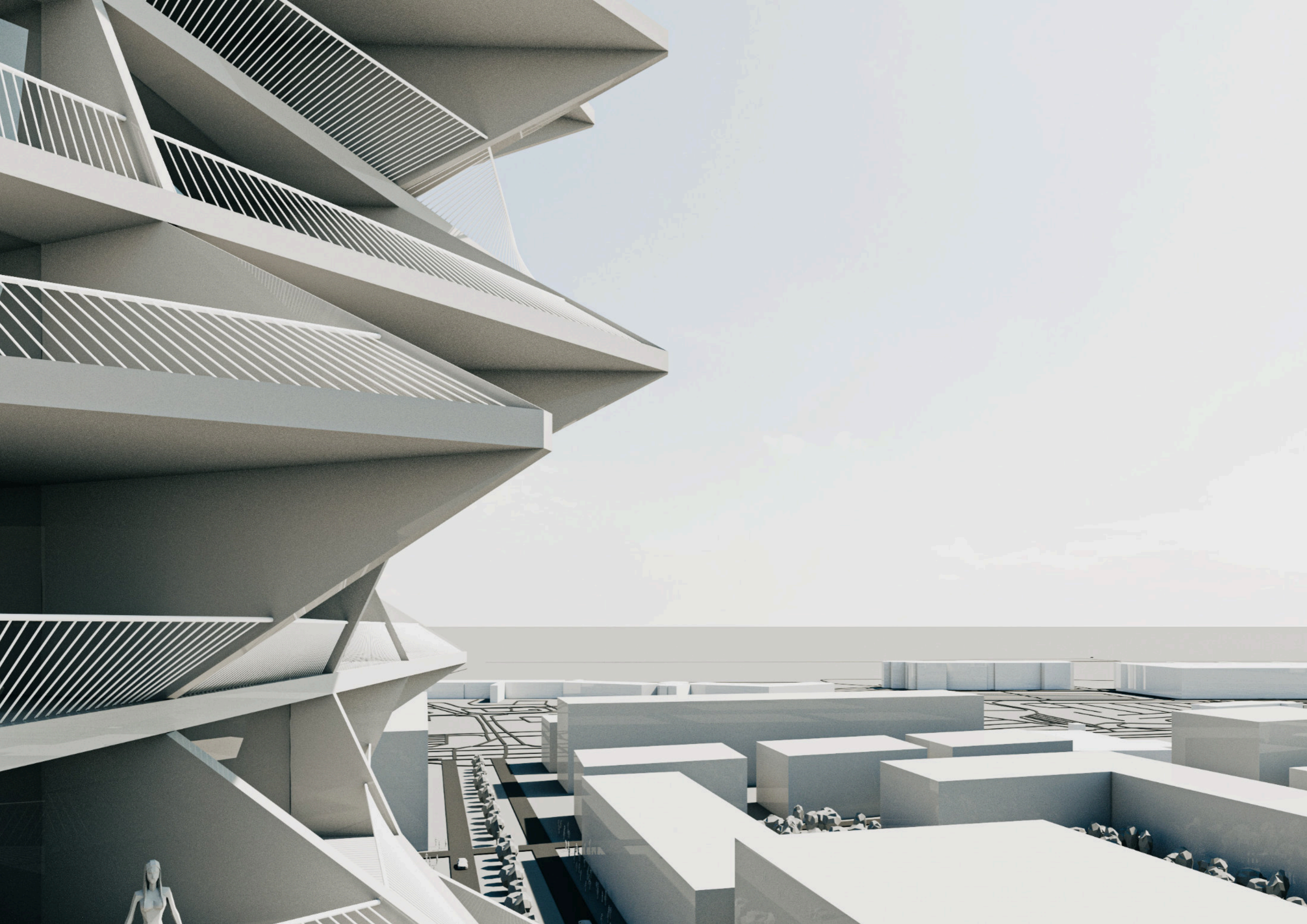
# Gdańsk Innovation District: A Smart City Powered by Technology and Collaboration

*School Project 2023*

Located in the rapidly developing area surrounding Gdańsk Airport, this urban design project envisions a vibrant, mixed-use district that seamlessly integrates residential, commercial, and recreational spaces. The design leverages the area's proximity to the airport, major highways, and the Pomeranian Metropolitan Railway to create a well-connected and accessible hub for businesses, residents, and visitors alike. The project includes a variety of housing options, modern office spaces, retail and dining destinations, as well as ample green spaces and recreational amenities. This dynamic urban environment fosters a strong sense of community, promotes sustainable living, and positions Gdańsk as a leading center for innovation and economic growth.

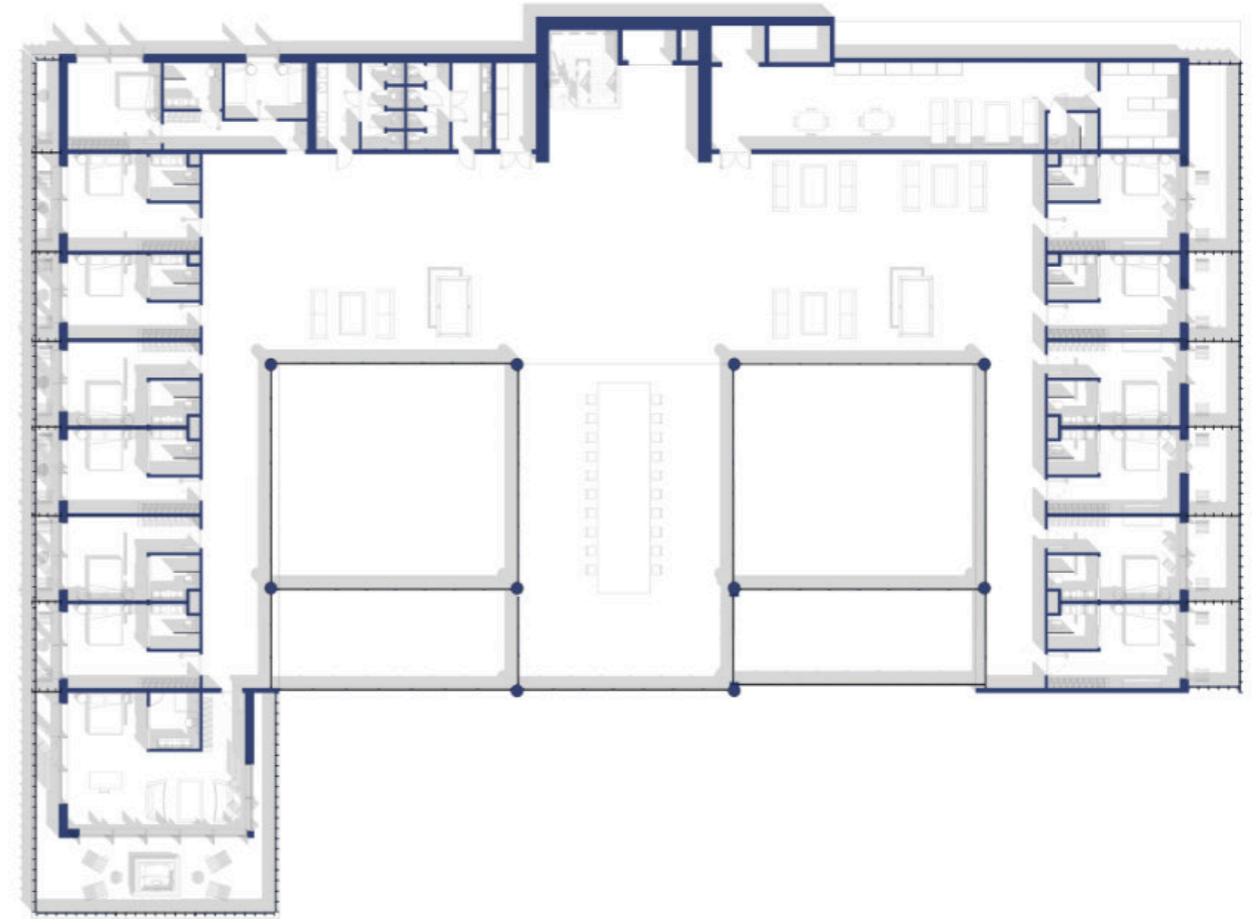
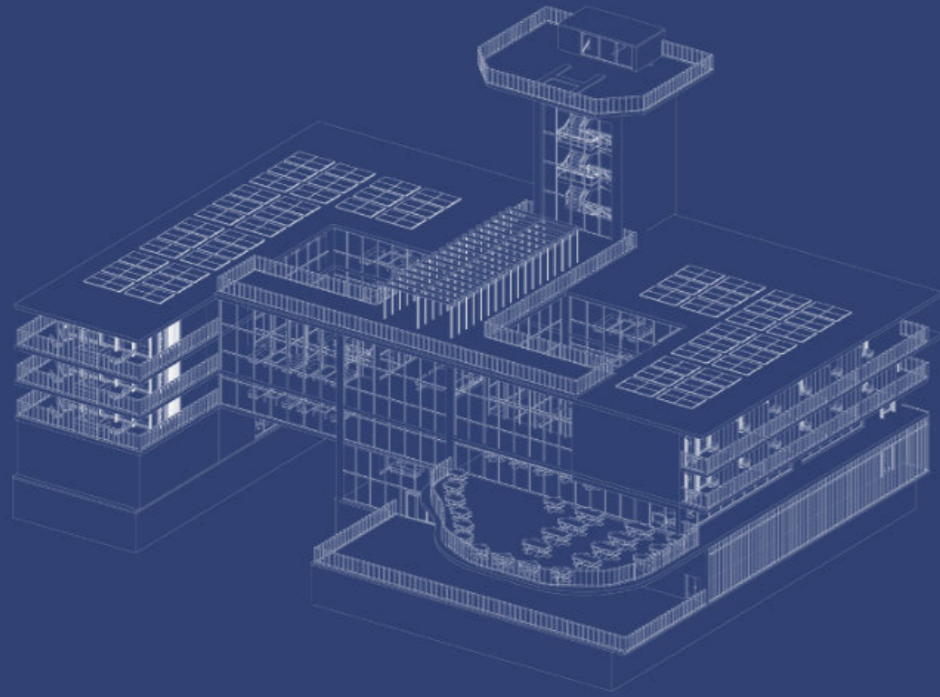
Software: Rhino, Grasshopper, Illustrator





# Torpedo Factory Transformation

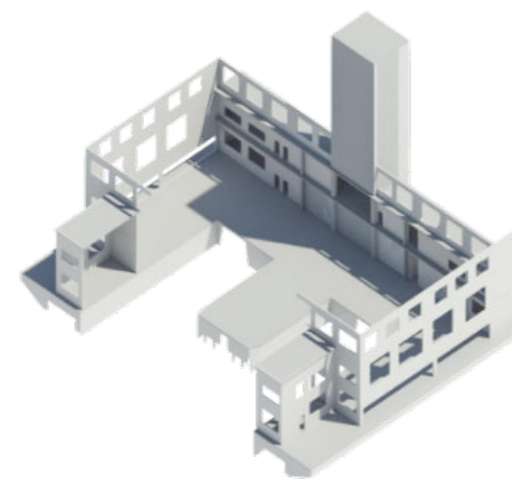
School Project 2021



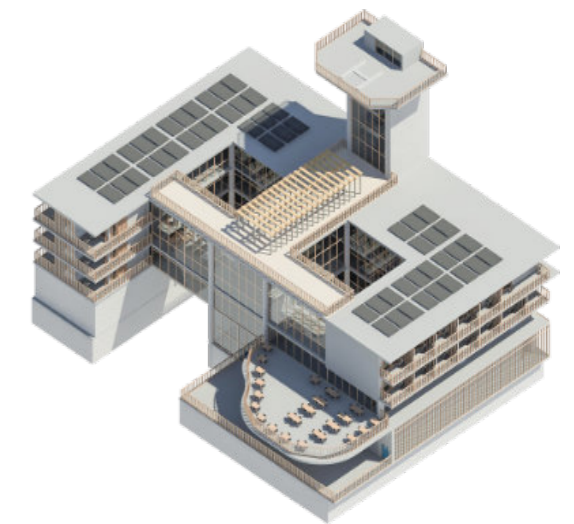
Second Floor Plan

This ambitious project transforms the remnants of a World War II torpedo factory into a luxurious waterfront hotel. The design honors the site's industrial heritage while offering modern amenities and breathtaking views of the Baltic Sea. A symbol of resilience and renewal, the hotel stands as a testament to Gdynia's rich history and vibrant future.

Software: Revit, V-ray, Twinmotion



Current State

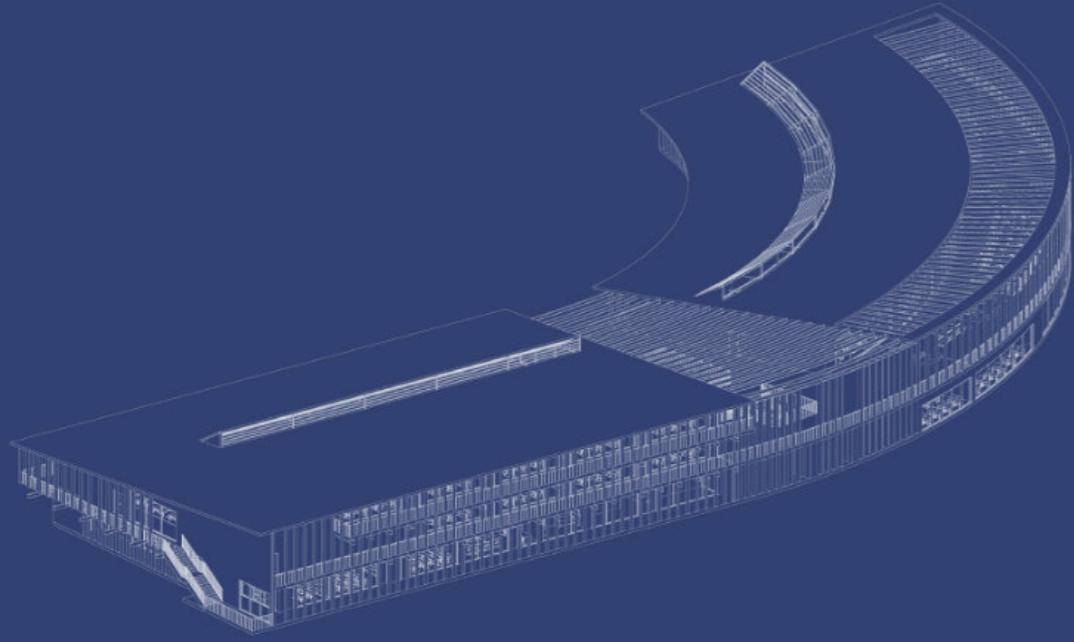


Renewal Concept



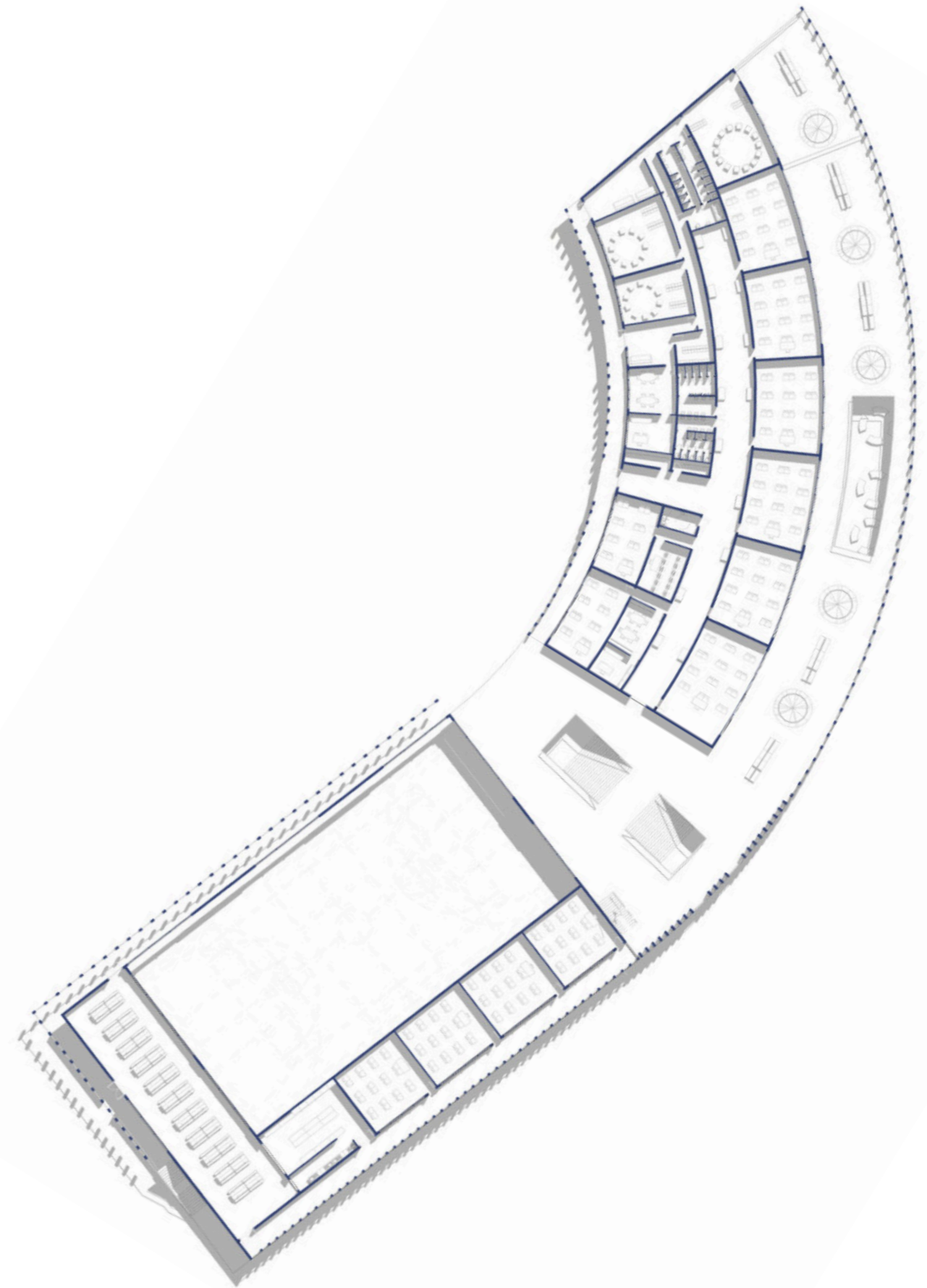
# Kibeho Community School

School Project 2022



Nestled in the Rwandan hills, this school complex serves as a vital educational hub for the Kibeho community. The design integrates vocational, primary, and preschool facilities, providing a comprehensive learning environment for students of all ages. Outdoor terraces, a gymnasium, classrooms, computer labs, and a cafeteria cater to diverse needs, while the architecture harmonizes with the surrounding landscape, creating a welcoming and inspiring space for learning and growth.

Software: Revit, 3ds Max, V-ray



Floor Plan



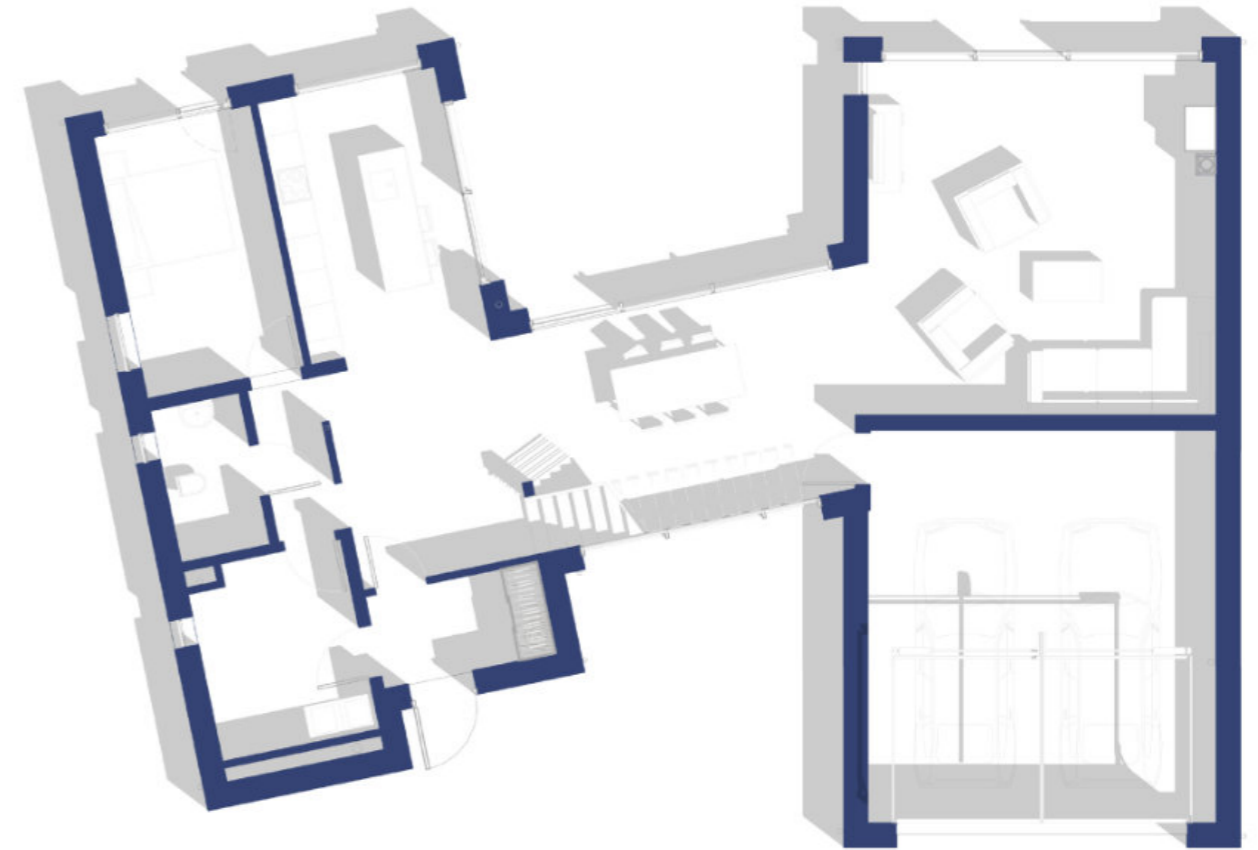
# Lakeside Contemporary Home

Commercial Project



This lakeside home offers a peaceful retreat, harmonizing modern design with the surrounding natural landscape. Its simple yet elegant form, featuring clean lines and natural materials, complements the tranquil setting. Expansive windows provide abundant natural light and stunning views of the lake, creating a seamless connection between indoor and outdoor living spaces. The home's thoughtful design prioritizes comfort, functionality, and a deep appreciation for the beauty of nature.

Software: Revit, 3ds Max, V-ray



Ground Floor Plan



# Residential Community

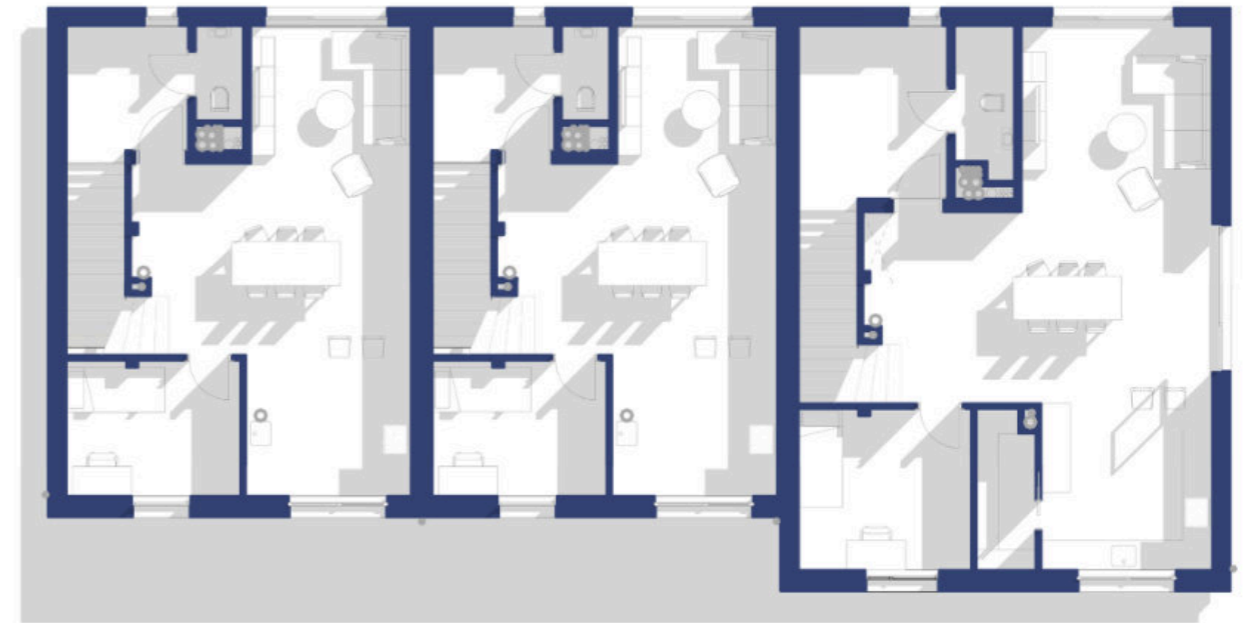
Gdańsk

Commercial Project



Situated on a picturesque hillside in Gdańsk, this townhouse development offers a unique opportunity for modern living. Each home boasts a private garden, integrated garage, and two spacious living levels, all designed to maximize views and natural light. The architecture, a harmonious blend of modern aesthetics and natural materials, seamlessly integrates with the sloping landscape, creating a tranquil and inviting community.

Software: Revit, 3ds Max, V-ray



Living Floor Plan



# Forest Home

Gdańsk

Commercial Project



Located in a peaceful forest, this custom-designed home offers a serene escape. The open living area connects to a private patio, blending indoor and outdoor living. An upper-level terrace provides stunning forest views, creating a tranquil retreat. The home's modern design and natural materials complement the environment, while the integrated garage ensures convenience.

Software: Revit, 3ds Max, V-ray



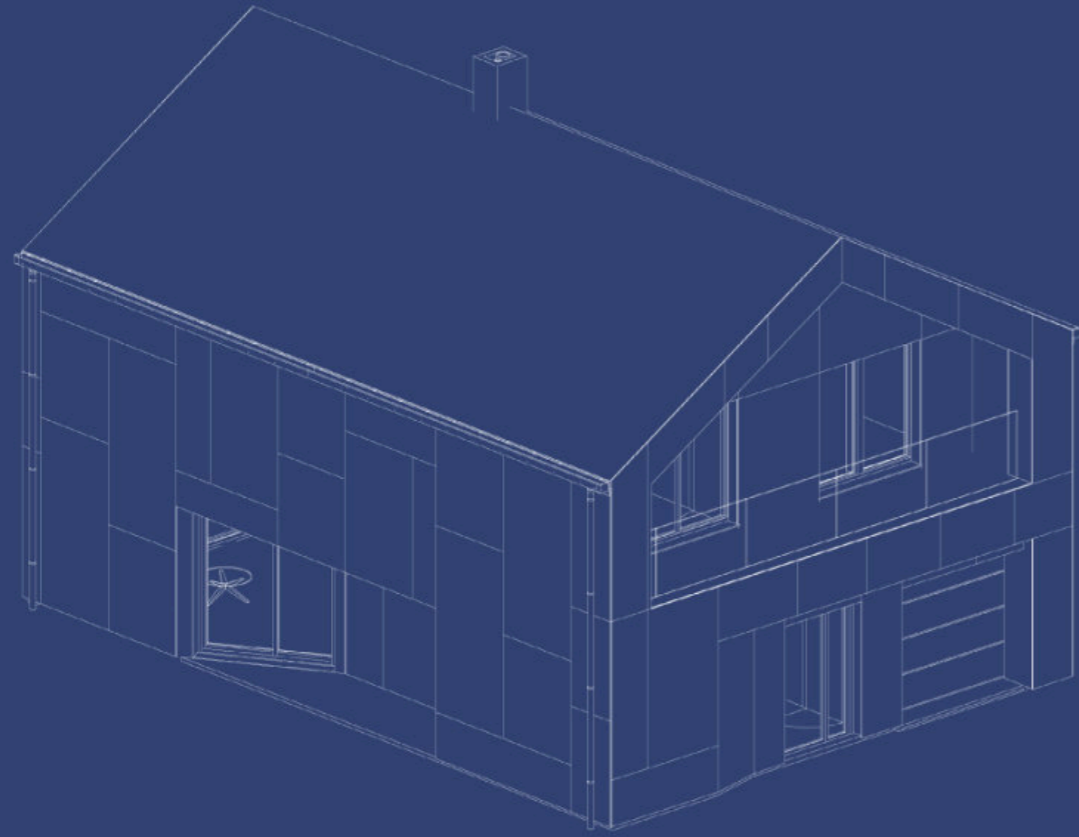
Ground Floor Plan



# Woodland Modern

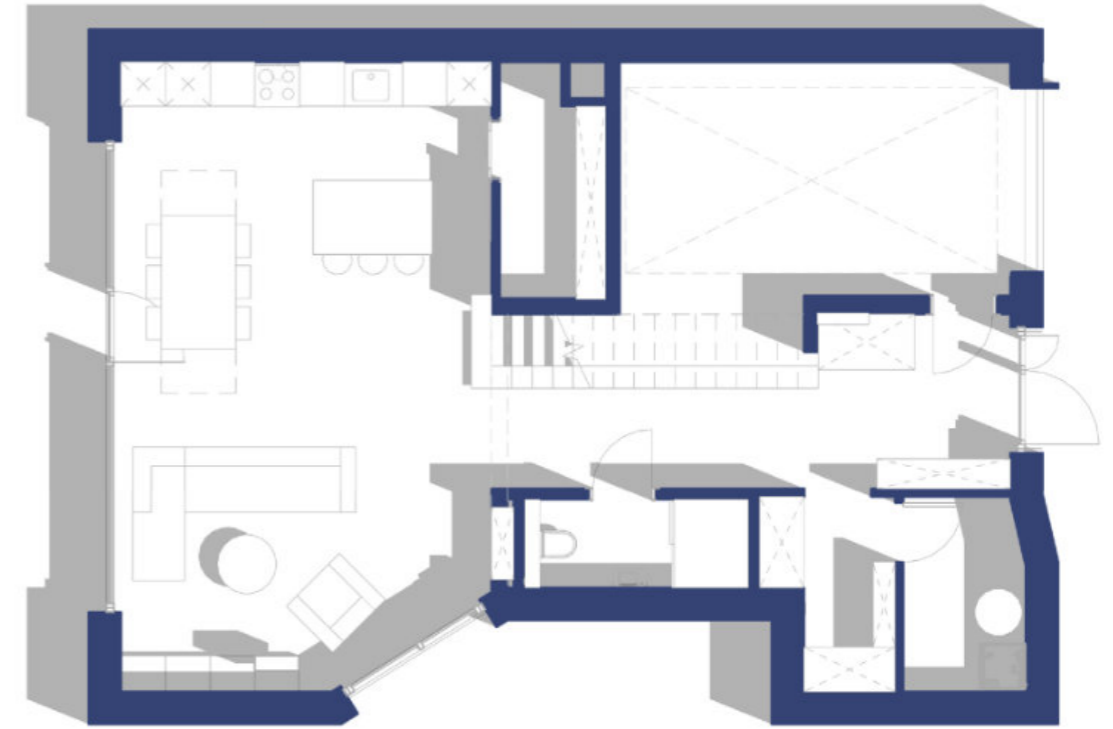
Gdańsk

Commercial Project



This custom-designed home seamlessly integrates with its forested surroundings. The warm wood siding and clean lines create a contemporary aesthetic that complements the natural landscape. Large windows invite ample natural light and offer stunning views of the surrounding trees, blurring the boundaries between indoor and outdoor living. The integrated garage and spacious layout provide both functionality and comfort, making this home a peaceful sanctuary for modern living.

Software: Revit, 3ds Max, V-ray



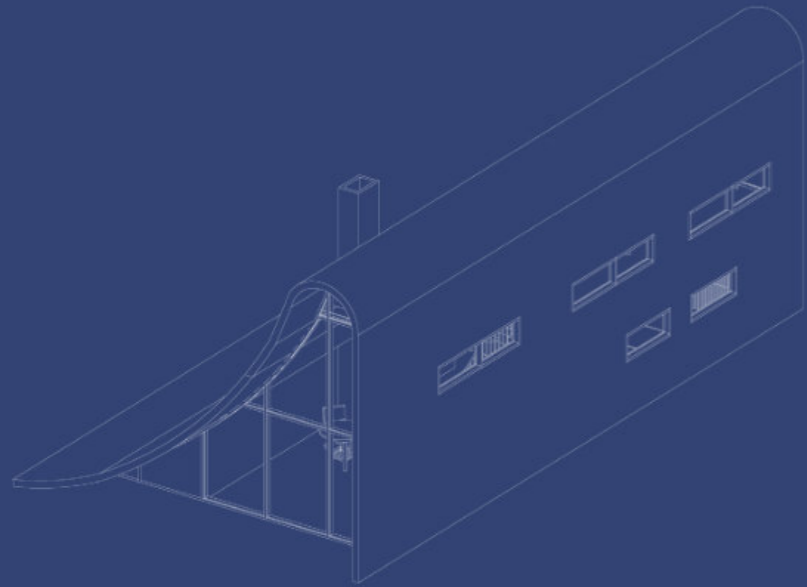
Ground Floor Plan



# Summer House

Kłodno, Poland

Student Project 2022



Amid a peaceful forest, right on the shore of a lake, I designed a unique summer house offering an escape from the noise of everyday life. Its distinctive rounded form, inspired by gentle hills and the calm surface of the water, blends harmoniously into the natural landscape. Large windows fill the interior with light and open up breathtaking views of the lake, blurring the boundary between indoor and outdoor space. The minimalist design and natural materials create a warm, tranquil atmosphere, inviting guests to relax and reconnect with nature.

Software: Revit, Midjourney, 3ds Max,  
V-ray





# My Design Workflow: From Concept to Visualization

My design process leverages a variety of digital tools to streamline the workflow from concept to visualization. Initial conceptual modeling is done in Rhino, incorporating .dwg underlays and GIS data for site-specific accuracy. I then transition to Revit, using Rhino.Inside.Revit for seamless integration, to develop detailed BIM models and construction documentation.

For select projects, Grasshopper is employed for computational design tasks, such as optimizing window sizes and placement, analyzing building orientation for solar gain, and generating complex façade patterns. Finally, I utilize 3ds Max and V-Ray to create high-quality visualizations that accurately represent the design intent and bring the project to life.



Concept



Design



Document



Compute



Visualize



Showcase

From concept to reality: a seamless digital journey.



Fotografie











Please do not hesitate  
to contact me if you have any  
questions or concerns

# Thanks