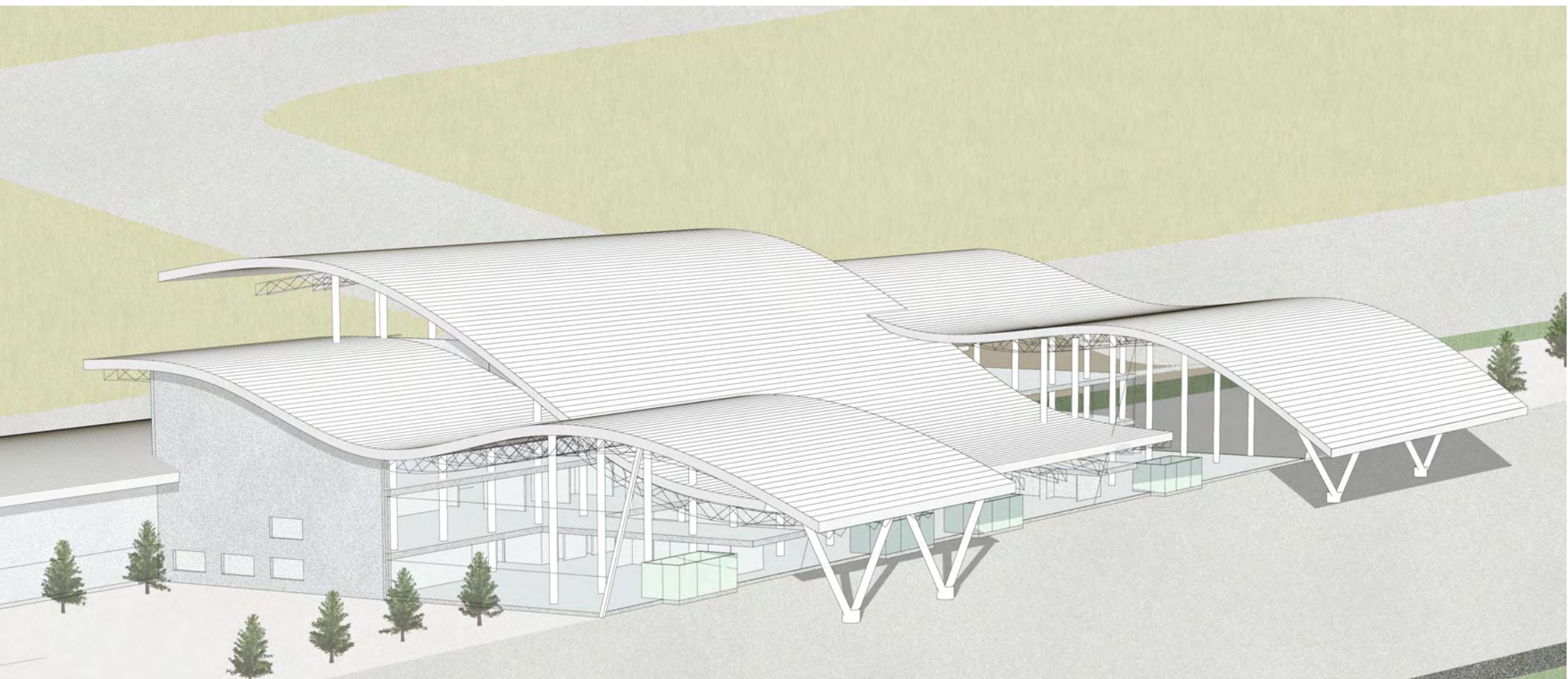


# PORTFOLIO

SHEN CHE / CHIN TETSUKO

2020-2025



# About.



**SHEN CHE / CHIN TETSUKO**

I am an architectural designer with both academic and professional experience. After completing my Master's degree, I worked for three years at an architectural office, handling projects from initial planning to completion, including building permit applications. I was involved in both exterior and interior design for large-scale projects such as high-rise buildings and resort residences. Currently, I am pursuing a Ph.D. at Sophia University, where my research focuses on sustainability and disaster resilience. I aim to bring together good design and sustainability to create architecture that is innovative and responsible.

## EDUCATION

Mar. 2016  
Kanazawa Izumigaoka High School,  
Science Course (Graduated)

Apr. 2016 – Mar. 2020  
Bachelor of Engineering in Architecture,  
Kyoto Institute of Technology

Apr. 2020 – Mar. 2022  
Master ovineering in Architecture,  
Graduate School of Science and Technology,  
Kyoto Institute of Technology

Apr. 2023 – Mar. 2026 (Expected)  
Ph.D. Program in Global Environmental Studies,  
Sophia University

## PROFESSIONAL EXPERIENCE

Apr. 2022 – Apr. 2025  
NIKKI SEKKEI Ltd.,  
Architectural Design Department

## LANGUAGES

Japanese — Native  
Chinese — Advanced  
English — Intermediate

## SKILL

<i>Thechnical Drawing</i>	AutoCAD	
	Vector Works	
	ArchiCAD	
	Revit	
<i>3D Modeling</i>	Sketchup	
	Rhinoceros	
<i>Rendering</i>	V-ray	
<i>Graphic</i>	Photoshop	
	InDesign	
	Illustrator	
<i>Office</i>	Excel	
	PowerPoint	
	Word	

# Contents.

- 01 IKEJIRI RESIDENCE
- 02 NISHINIPPORI RESIDENCE
- 03 KARUIZAWA CONDOMINIUM
- 04 PUBLIC LIBRARY IN KANAZAWA
- 05 KOMATSU AIRPORT RENOVATION

# 01

## IKEJIRI RESIDENCE

Condominium, RC 6 stories, 51 units  
Site Area: 510.02m<sup>2</sup> / Total Floor Area: 1,636.26m<sup>2</sup>  
Apr. 2024 – Apr. 2025 (Lead Designer)

A mid-rise condominium project located in Setagaya, Tokyo. As the lead designer, I was responsible for the project from basic planning through detailed design and supervision. My role included permit applications, general drawings, and design coordination.

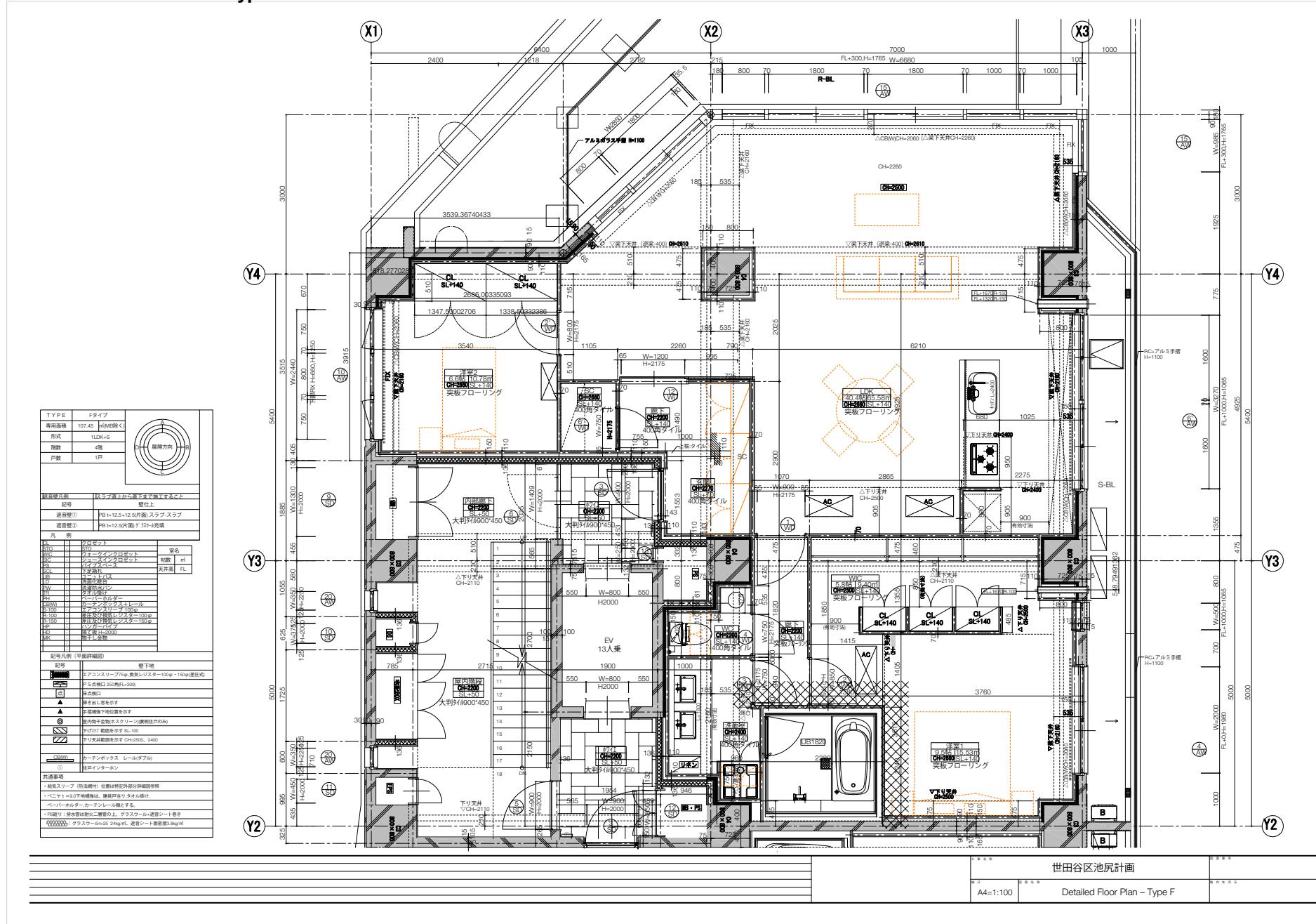
### *Role & Responsibilities*

- Basic and detailed design
- General drawings (plans, elevations, sections)
- Building permit applications
- Design supervision and site meetings
- Project documentation (minutes, reports)





## **Detailed Floor Plan – Type F**



**Layout Plan – Type F**



## 02

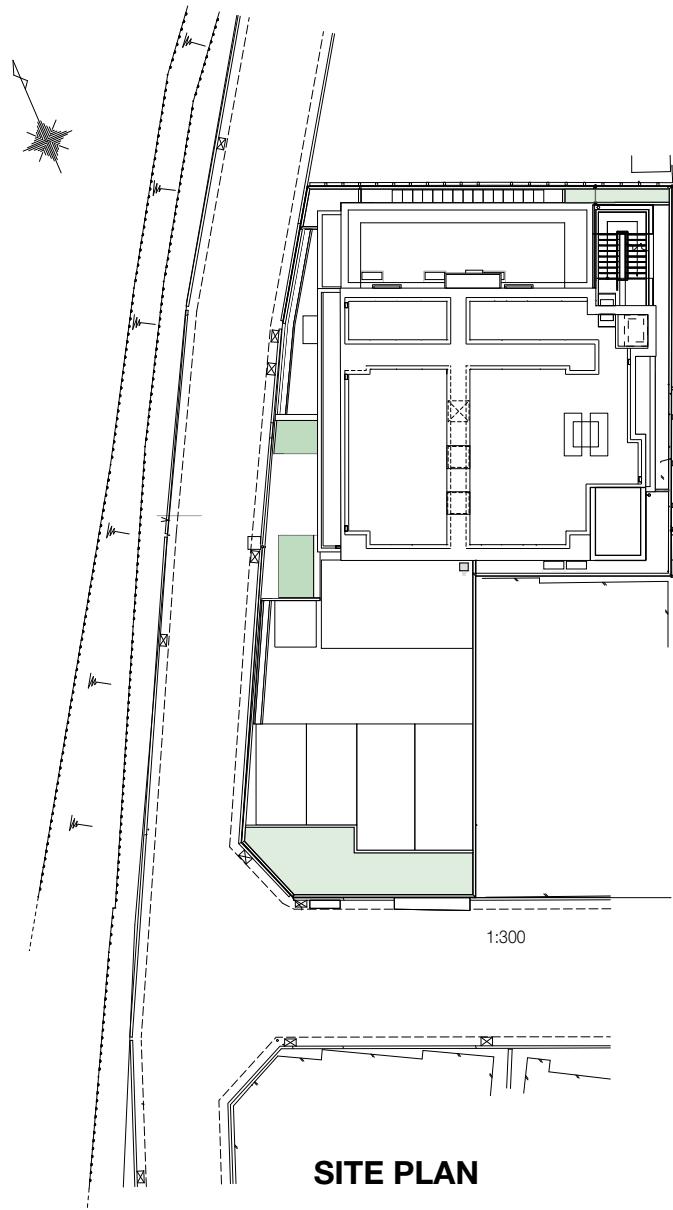
### NISHINIPPORI RESIDENCE

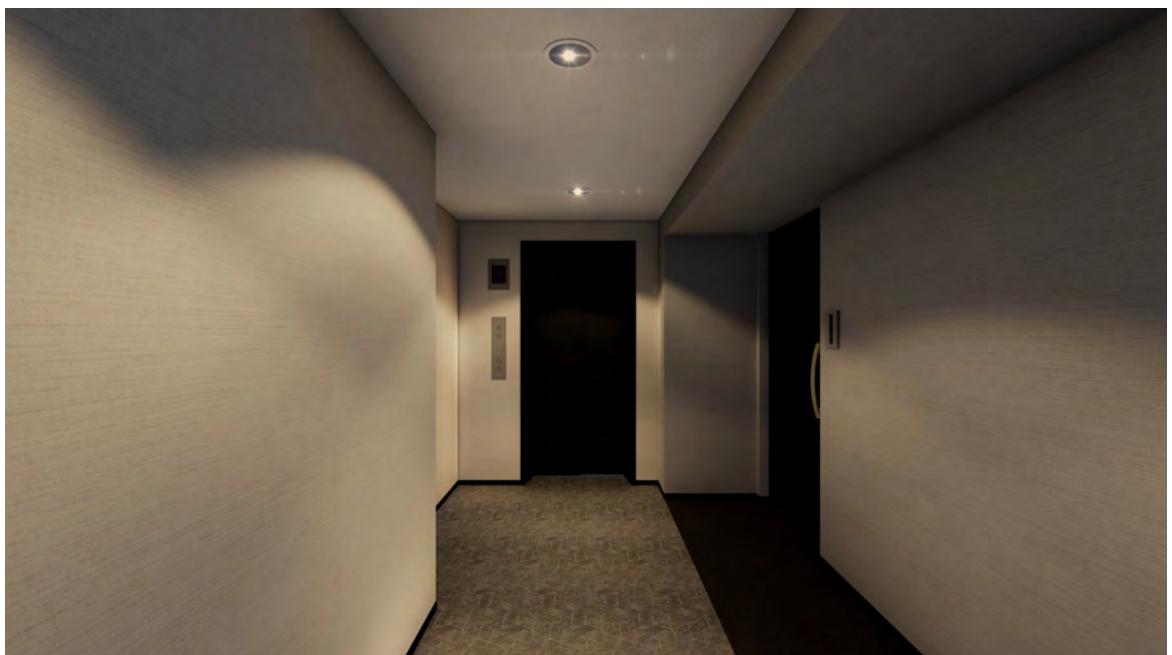
Rental Housing, RC 11 stories, 51 units  
Site Area: 353.21 m<sup>2</sup> / Total Floor Area: 1,643.96 m<sup>2</sup>  
May 2023 – Apr 2025 (Lead Designer)

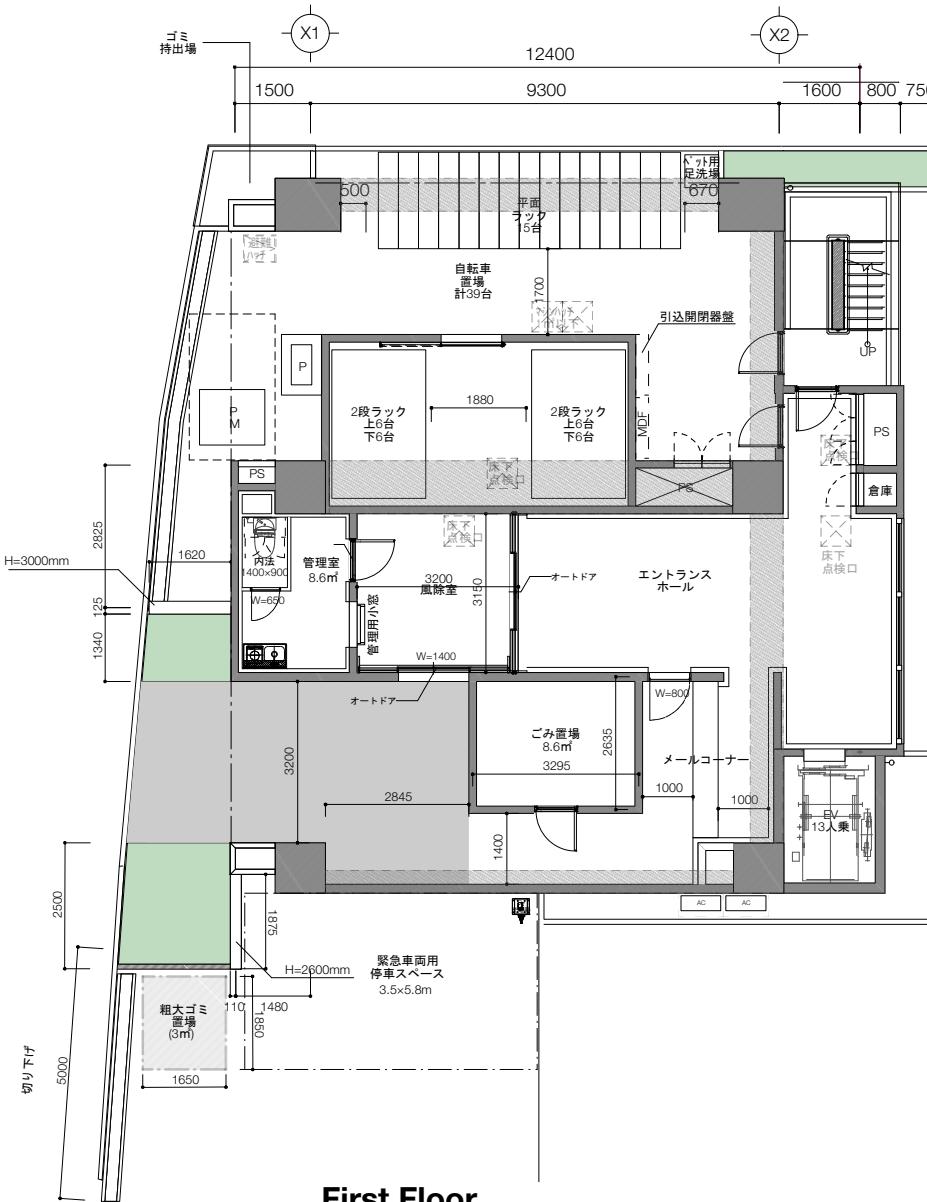
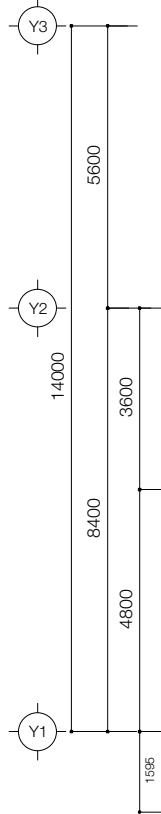
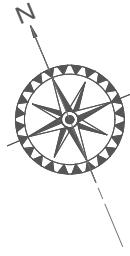
A mid-rise residential building located in Arakawa-ku, Tokyo. As the lead designer, I was responsible for the project from basic design to detailed design and construction supervision. The project focused on optimizing limited urban land while ensuring livability and harmony with the surrounding neighborhood.

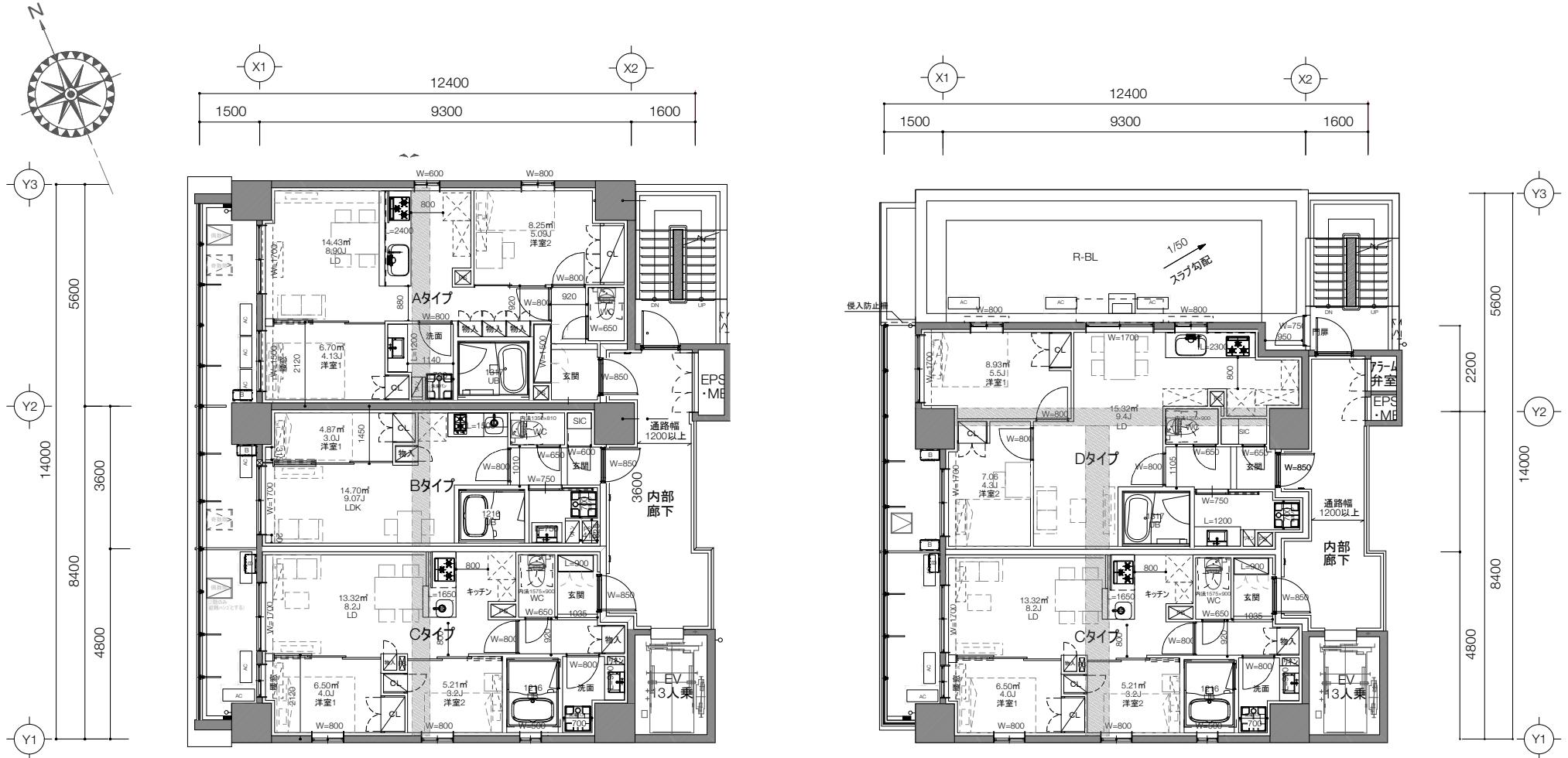
#### *Role / Responsibilities*

- Basic and detailed design
- Building permit applications and coordination with authorities
- Design supervision and site inspections
- Preparation of general drawings (plans, elevations, sections)
- Exterior design and perspective renderings
- Regular meeting reports and communication with stakeholders



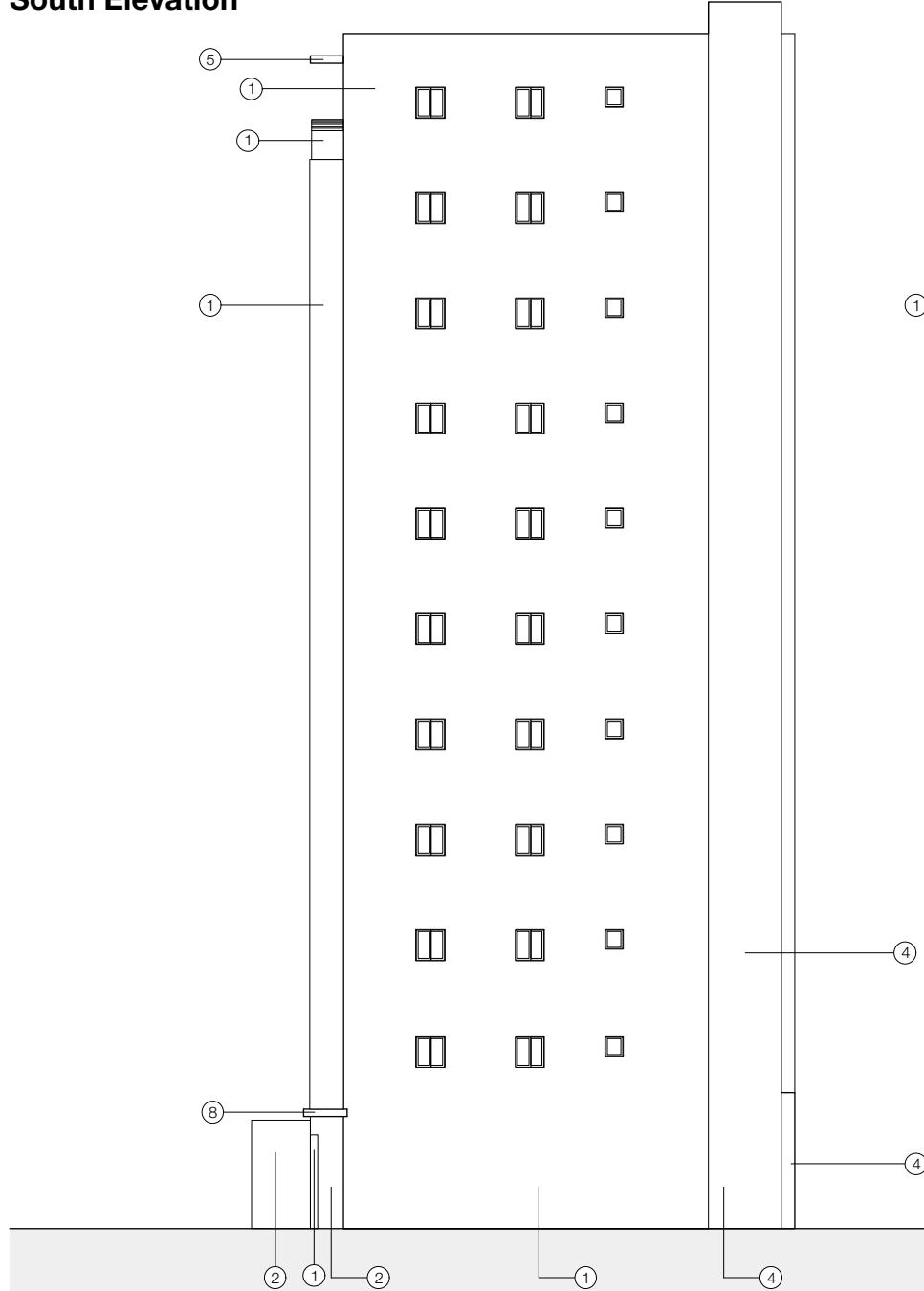
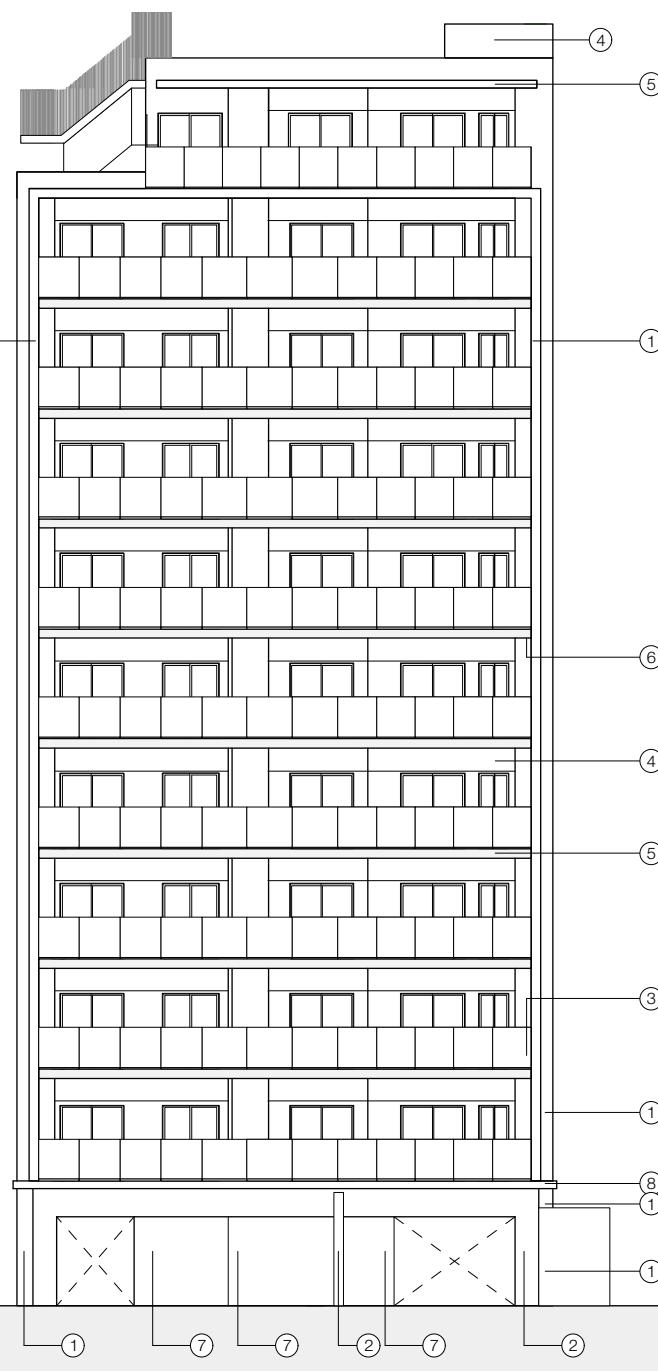






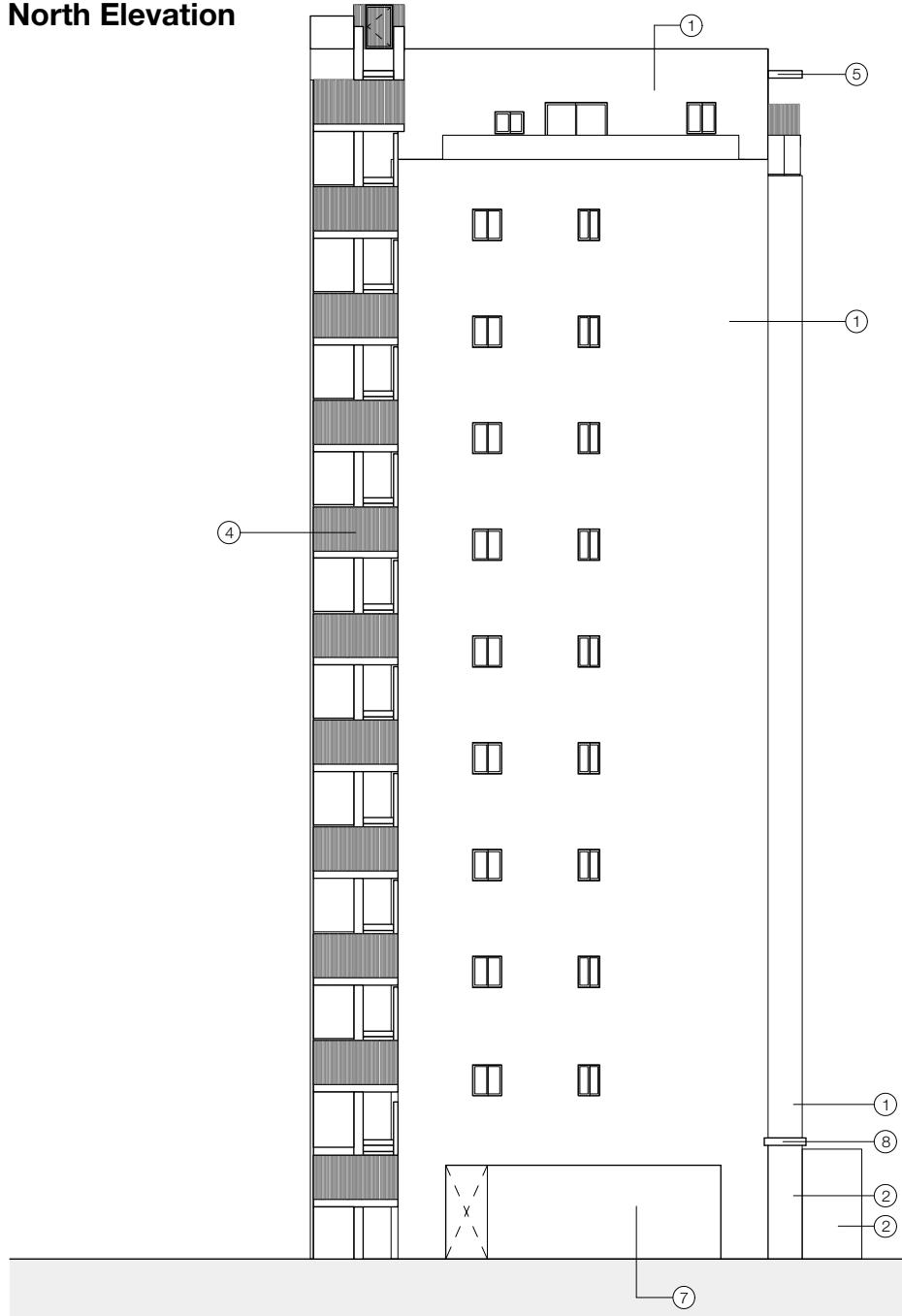
## **Second to Tenth Floor Plan**

11th Floor Plan

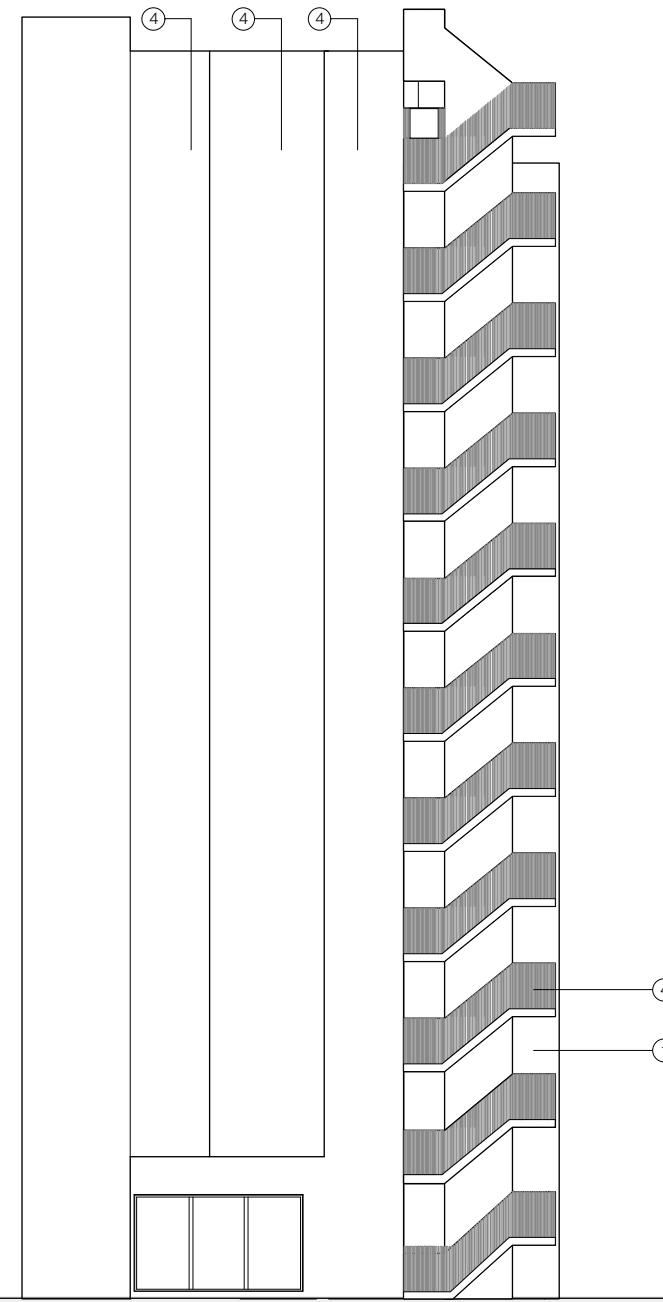
**South Elevation****West Elevation**

- ① Exterior Tile Finish
- ② Glazed Tile
- ③ Glass Handrail
- ④ Tile Finish
- ⑤ Border Tile Finish
- ⑥ Sprayed Finish
- ⑦ Stone Tile Finish
- ⑧ Aluminum Cladding Panel

**North Elevation**



**East Elevation**



- ① Exterior Tile Finish
- ② Glazed Tile
- ③ Glass Handrail
- ④ Tile Finish
- ⑤ Border Tile Finish
- ⑥ Sprayed Finish
- ⑦ Stone Tile Finish
- ⑧ Aluminum Cladding Panel

# 03

## KARUIZAWA CONDOMINIUM

Condominium, RC 2 stories, 51 units  
Site Area: 8,983.14m<sup>2</sup> / Total Floor Area: 8,032.73m<sup>2</sup>  
Apr. 2022 – Oct. 2024

A low-rise residential condominium project located in Karuizawa, Nagano. The design aimed to create a comfortable living environment in a resort town, integrating natural surroundings with modern residential design. My involvement covered both basic and detailed design, focusing on exterior expression and housing layouts.

### *Role / Responsibilities*

- Basic and detailed design
- Floor plan development and unit layouts
- Preparation of building permit documents  
(area tables, elevation drawings)
- Exterior design and perspective renderings





# 04

## PUBLIC LIBRARY IN KANAZAWA

Master's Thesis, Kyoto Institute of Technology (2022)

Use: Library

Site: Korinbo, Kanazawa City

Scale: 3 stories

Site Area: 1,740m<sup>2</sup> / Total Floor Area: 3,180m<sup>2</sup>

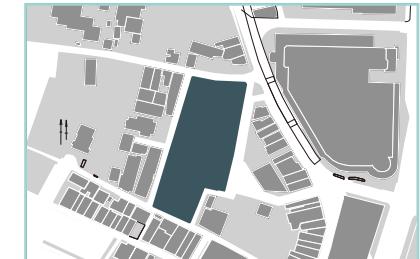
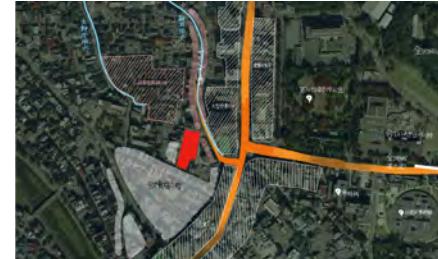
This thesis project explores the future role of libraries in the digital age. Located in Korinbo, the central district of Kanazawa, the design proposes a new type of library that accommodates both printed and electronic books. Spaces such as a book café, event booths, and a gallery encourage social interaction and expand the library's role beyond reading. The architectural concept emphasizes contrasts—between analog and digital, closed and open spaces—while integrating structure and building systems into the spatial experience.





## 01 SITE

New Korinbo Park, Katamachi, Kanazawa City, Ishikawa  
Site Area: 3,200 m<sup>2</sup>



## 02 PROGRAM

### (1) A Library Handling Both Printed and Electronic Books

#### *Wood × Aluminum × Glass*

Exploring an approach that allows the coexistence of contrasting materials, such as traditional printed books and advanced e-books.

#### *Closed Space for Protecting Books × Open Space Without Books*

Traditionally, library spaces were designed to minimize sunlight in order to protect books from deterioration. With digitalization, this concern has diminished, expanding the possibilities of library space today.



### (2) A Library that Creates Opportunities to Pick Up Books

#### *Book & Café*

To make reading a more familiar activity, the library provides spaces where people can eat, read, and talk together.

#### *Community and Event Booths*

Many community spaces that libraries inherently possess are often underutilized. This project introduces functions that allow the library to contribute to the community beyond reading.

## 03 DIAGRAM

### Soft Space

Create curved spaces that follow human circulation.



### Integration of Wood and Steel

Form a dome-shaped roof with triangular trusses to bring in natural daylight.



### Open Space

Arrange columns in a circular pattern to create open yet private spaces.



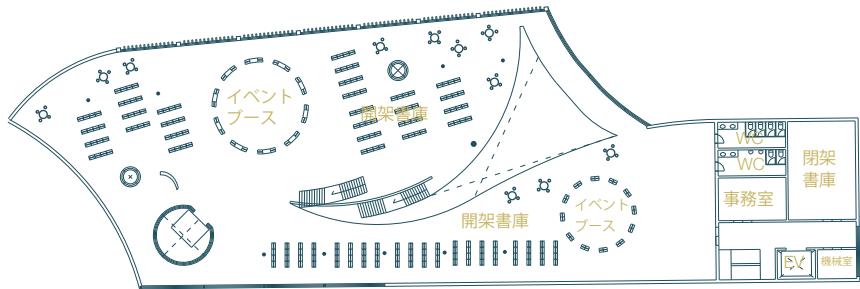
### Structural Reinforcement and Design Integration

Incorporate HVAC systems and piping into the columns as part of the structural design.

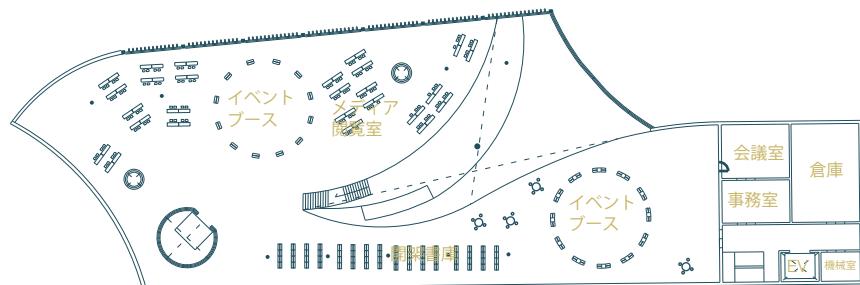




## Second FLOOR PLAN



## Third FLOOR PLAN



## STRUCTURE

### Flow of Gathering

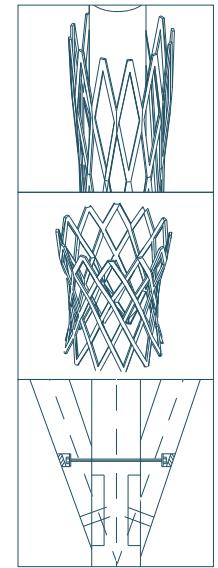
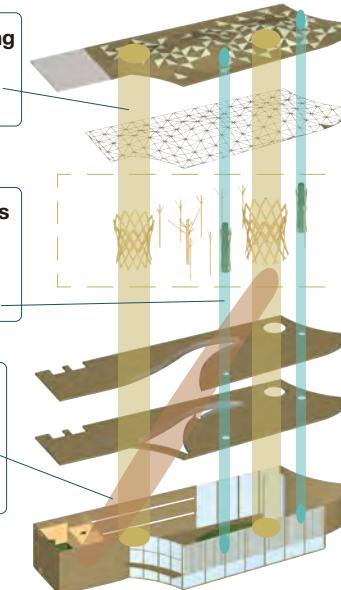
People gather in spaces enclosed by columns.

### Flow of Facilities

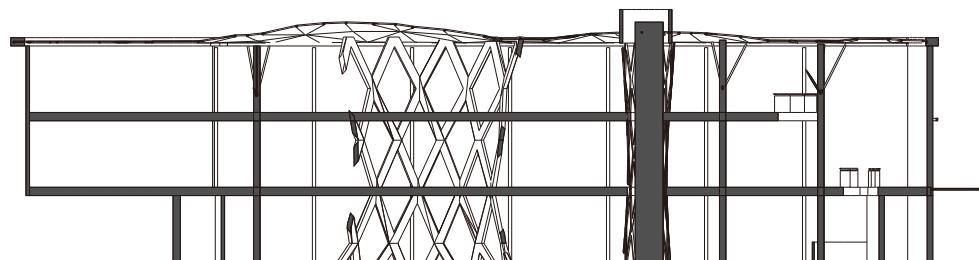
HVAC and piping systems are integrated into the structure and design, creating efficient spaces.

### Flow of People

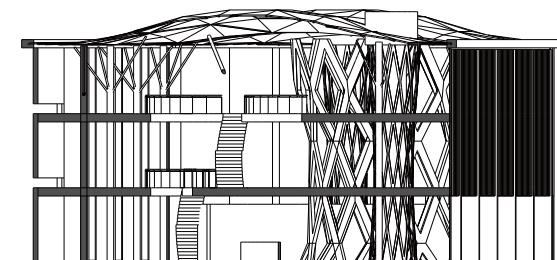
Stairs and elevators are arranged to rise diagonally from the entrance, guiding the movement of users.



## 1:600 SECTION

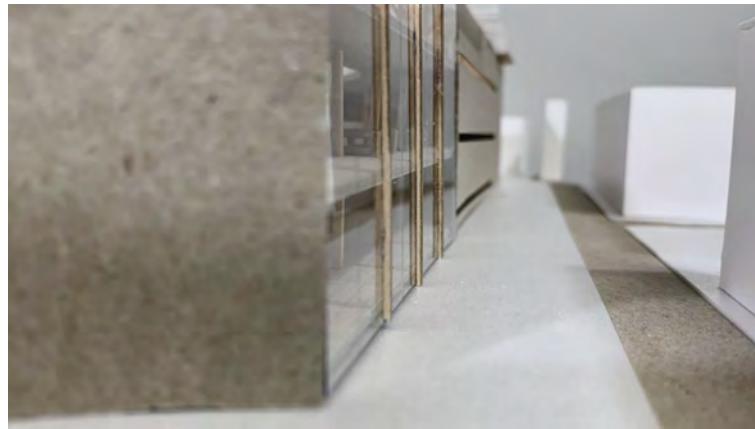
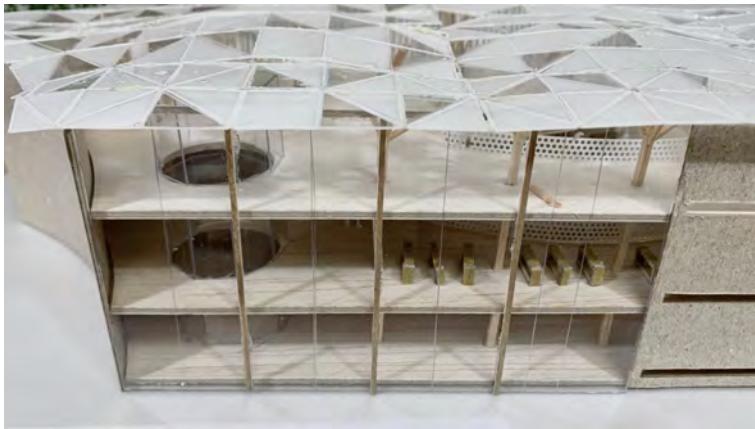


A-A' section



B-B' section





# 05

## KOMATSU AIRPORT RENOVATION

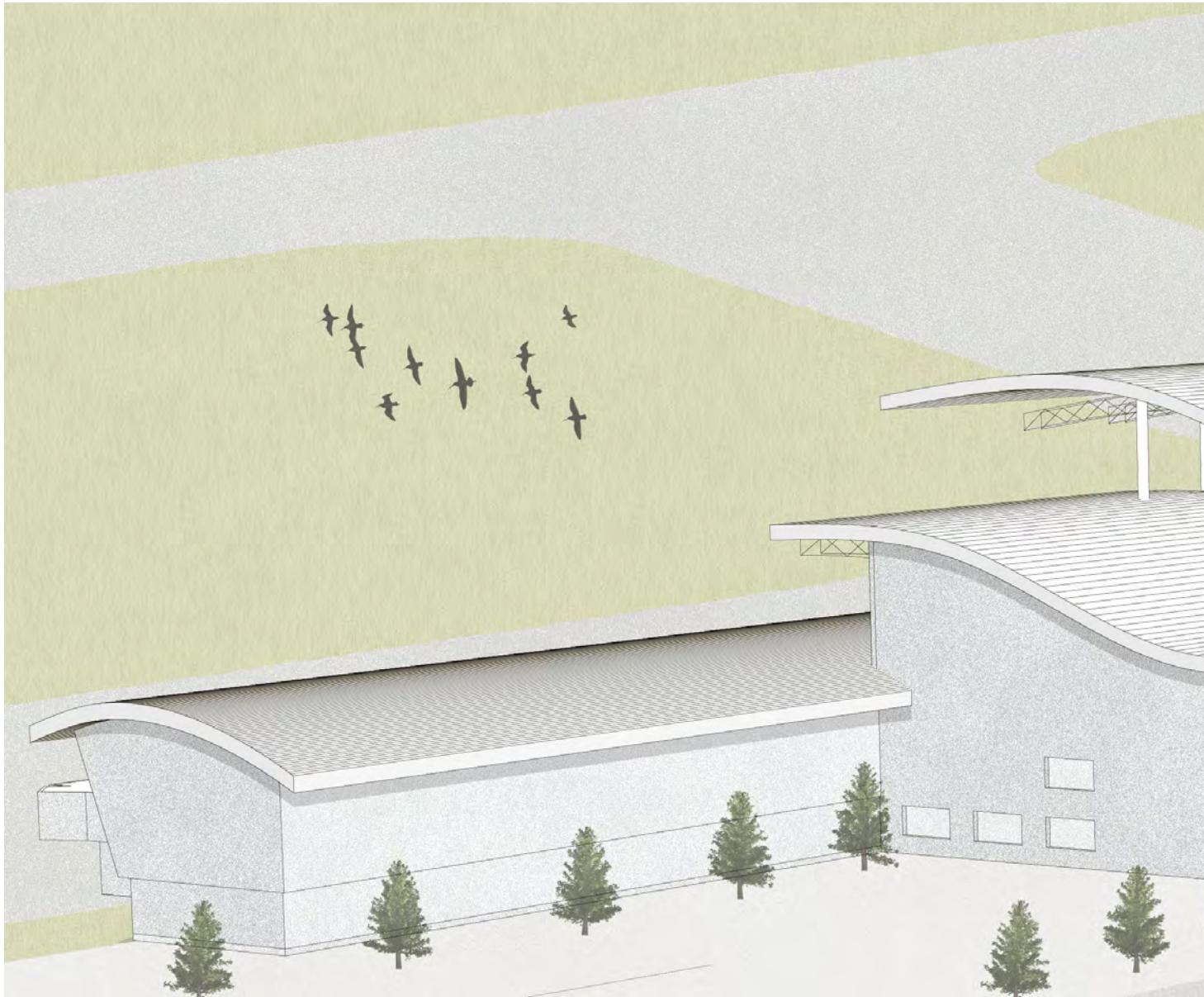
Graduation Design, 2019–2020

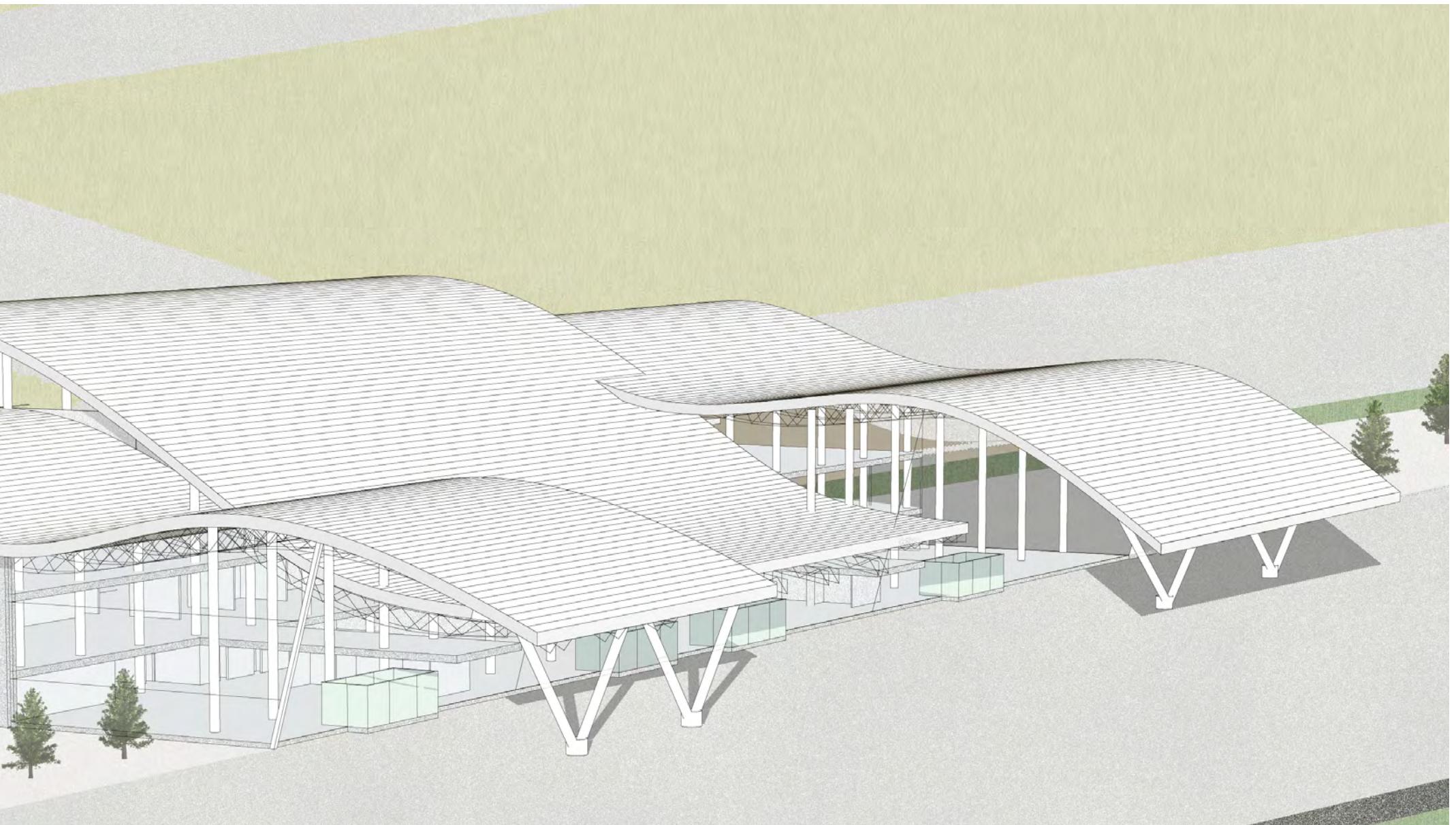
Site: Komatsu City, Ishikawa Prefecture

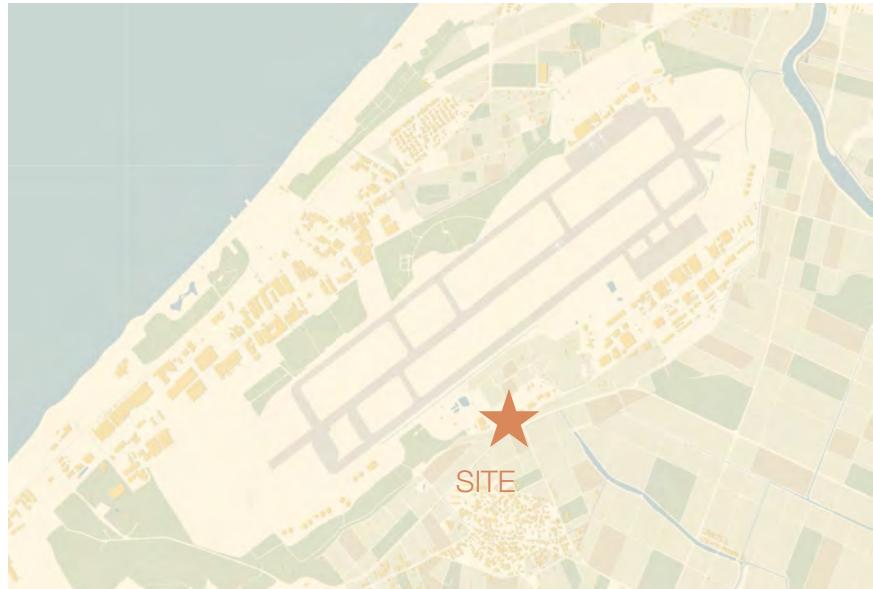
Program: Airport Terminal (Domestic & International)

Scale: 4 floors

This graduation design project reimagines Komatsu Airport, the gateway of the Hokuriku region, in response to declining domestic passengers and increasing international demand. The proposal seeks to transform the airport from a simple transit facility into a cultural and public hub that reflects Ishikawa's regional identity. The design features curved roofs inspired by waves and pine trees, natural daylighting through overlapping roof structures, and zoning strategies that respond to different user groups. By integrating smart airport technologies and community-oriented spaces such as cafés, galleries, and event areas, the project envisions an airport that enhances both efficiency and social engagement.







Expand horizontally to add one permanent boarding gate.



Separate the circulation of departures and arrivals.



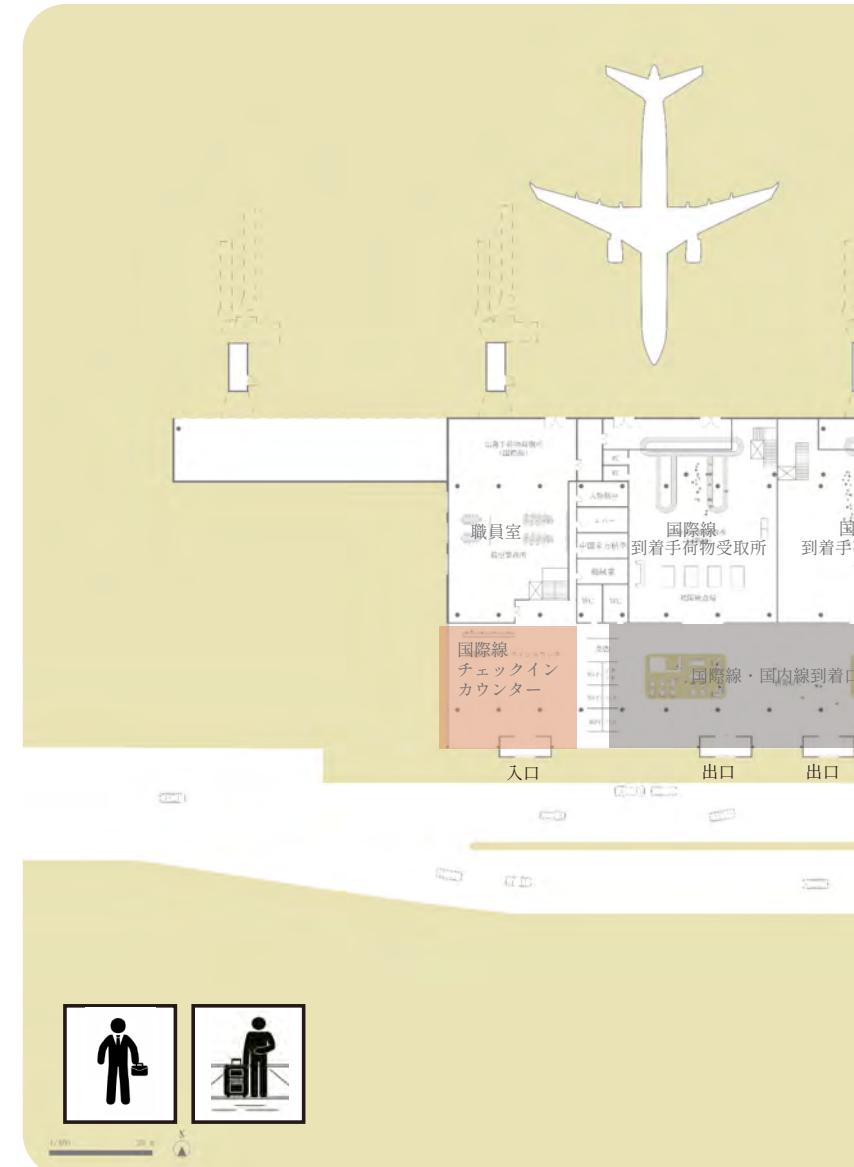
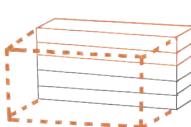
Design the roof with curved forms inspired by waves and pine trees.

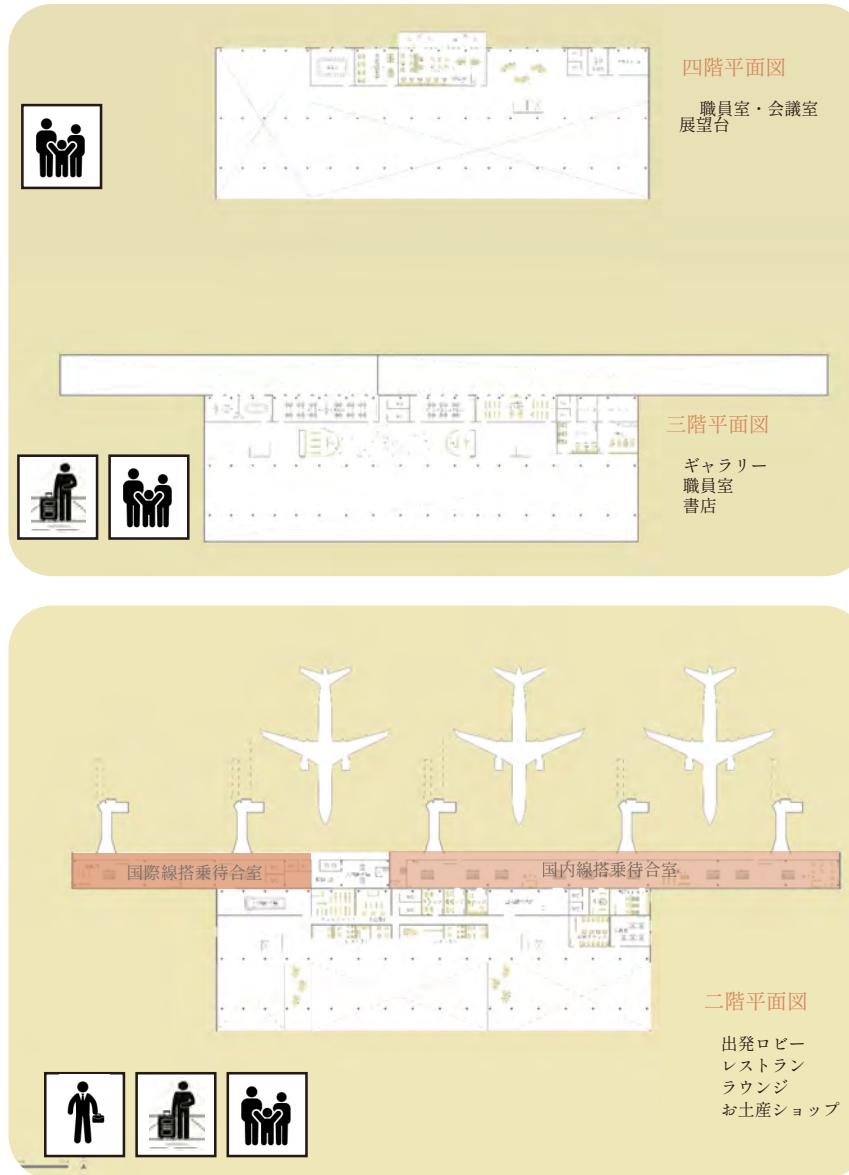
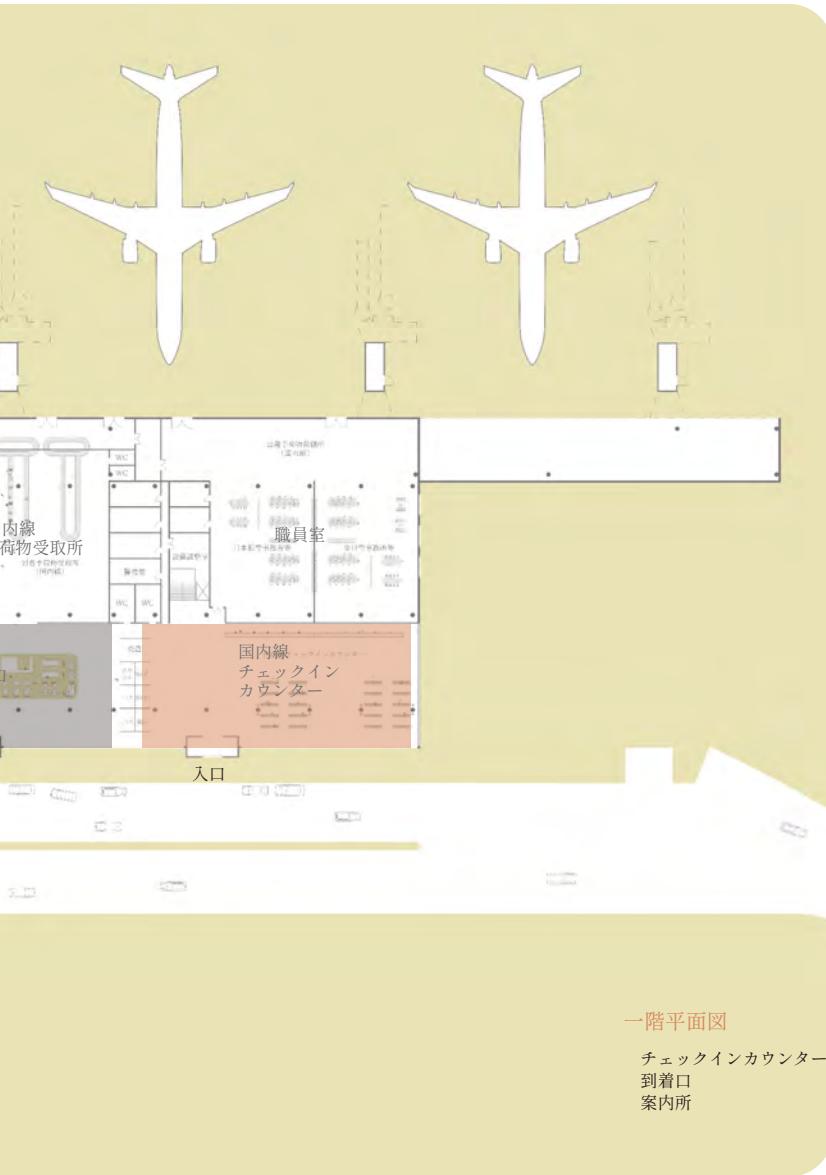


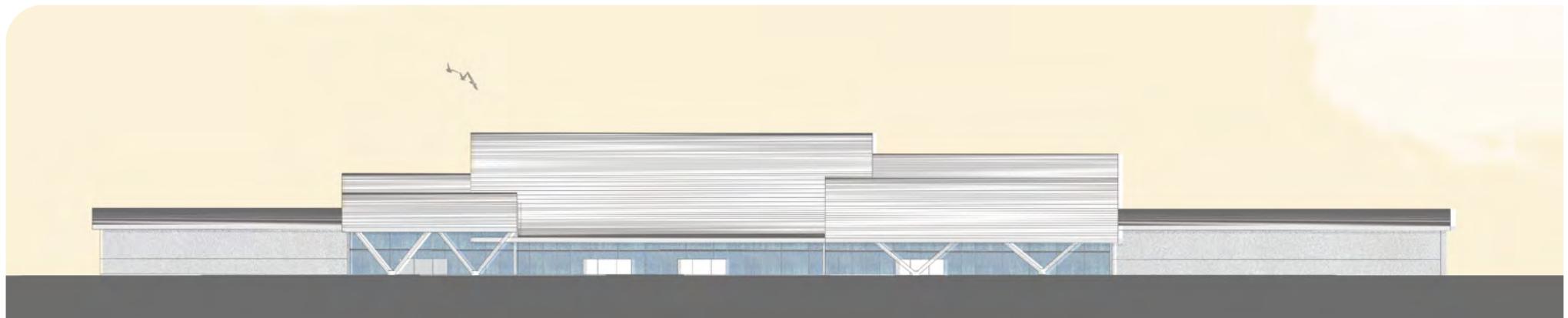
Add floors to divide usage patterns by level within the facility.



Create an atrium space by opening up the entrance side, making the flow of people visible.







**South Elevation**



**THANK YOU  
2020-2025**