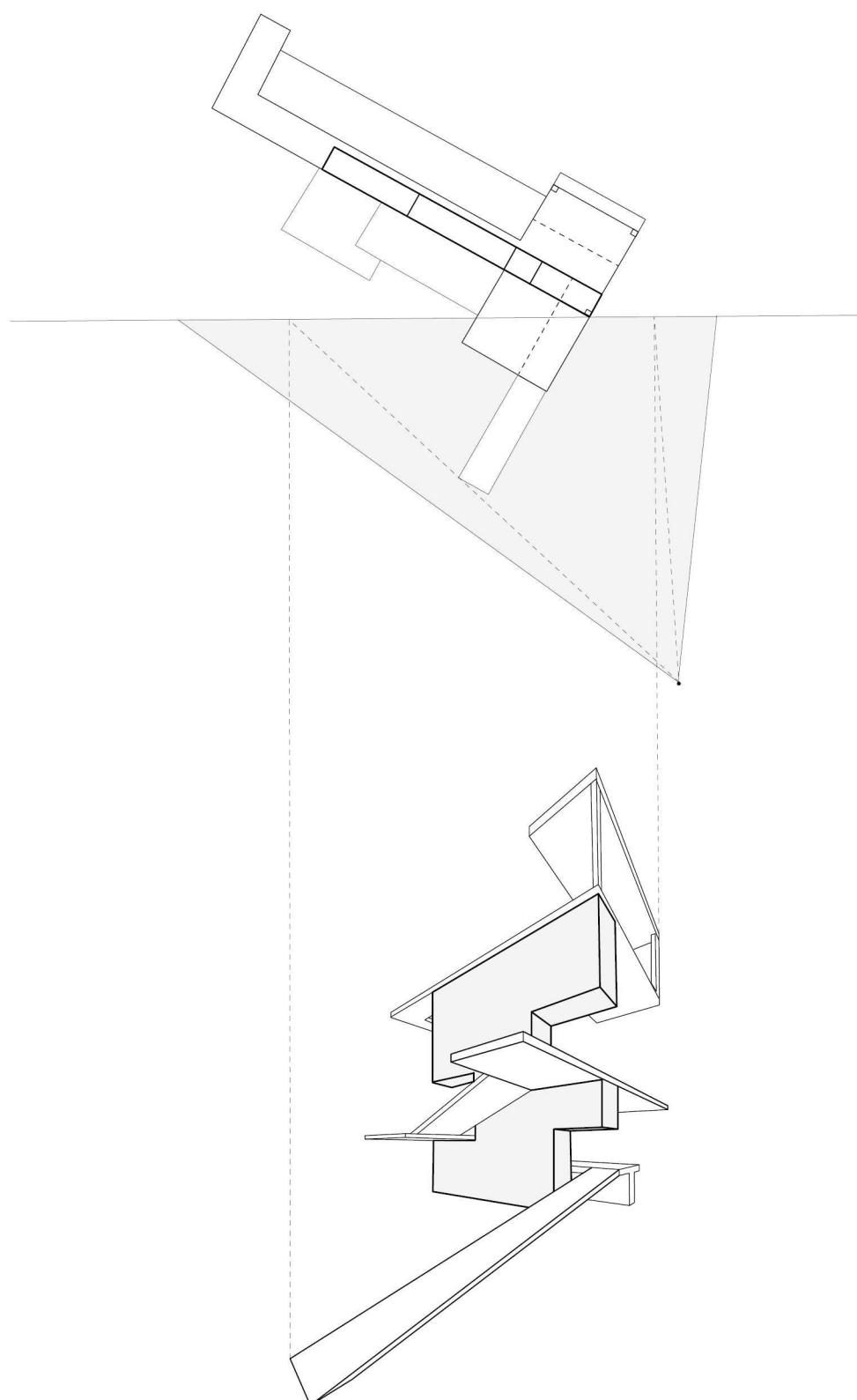




# ETHAN OVERLAND

2025

*Portfolio*



Kit of Parts two-point Perspective  
Spring 2020



## Ethan Overland

Ethan Overland is driven by a profound passion for creative and purposeful design, combining his finely-tuned design skills with relentless determination to deliver awe-inspiring projects. He firmly believes that informed design and collaborative teamwork are pivotal to the success of any project. Ethan's positive outlook, diligence, and software proficiency make him an invaluable asset to any project team.

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### Education

- 2019 - 2024 • University of Kansas | Lawrence, Kansas - 3.98 GPA, Graduate with Distinction  
Master of Architecture, Bachelor of Arts in Architectural Studies  
Graduate Certificate of Urban Design
- 2022-2023 • Study Abroad in Asia  
Singapore and Malaysia
- 2022 • Internship Abroad  
South Korea
- 2015 - 2019 • Cretin-Derham Hall High School | St. Paul, Minnesota - 4.05 GPA  
High School Diploma with Honors

### Experience

- 2024 - Present • MANICA Architecture | Kansas City, Kansas  
Project Designer - 3D Visualization and Design
- 2023 - 2024 • MANICA Architecture | Kansas City, Kansas  
Architectural Intern - 3D Visualization and Design
- 2022 - 2023 • Student Shop Assistant | Lawrence, Kansas  
University Laser and 3D Printing Lab
- 2022 • Haenglim Architects | Seoul, South Korea  
Architectural Intern - Competition Studio and Model Shop
- 2018 • Cunningham Group Architecture | Minneapolis, Minnesota  
Architectural Shadow with Michael Berg

### Awards

- 2024 • Excellence in Architecture | Sports and Entertainment Design  
University of Kansas
- 2023 • Dezeen Publication  
"The University of Kansas presents 10 architecture projects" Dezeen.com
- 2022 • Donald Ewart Memorial Scholarship  
University of Kansas
- 2022 • Freeman Foundation Scholarship  
University of Kansas
- 2018 • Eagle Scout Award  
Boy Scouts of America

### Software

Proficient:

Rhino, Grasshopper, Unreal Engine, V-Ray, Enscape, Lumion, Adobe Creative Cloud

Familiar:

Sketchup, AutoCAD, Revit, Stable Diffusion

### References

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Professor of Architecture  
University of Kansas  
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(785) 864-1150



## Professional Works

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### 01 Chicago Bears Stadium

Chicago, Illinois

01

### 02 New Estadio Heliodoro Rodríguez López

Tenerife, Spain

02

### 02 Nissan Stadium

Nashville, Tennessee

03

### 04 Miami Freedom park

Miami, Florida

04

## Academic Works

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### 05 Solport-Skyhive

Seoul, South Korea

05

### 06 Chicago Fire Forge Park

Chicago, Illinois

23

### 07 Terra tower

Oklahoma City, Oklahoma

35

### 08 The Psychedelic Movement Museum

Portland, Oregon

49

## Internship Abroad Works

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### 09 Pyeongtaek Children's Experience Center

Pyeongtaek-si, South Korea

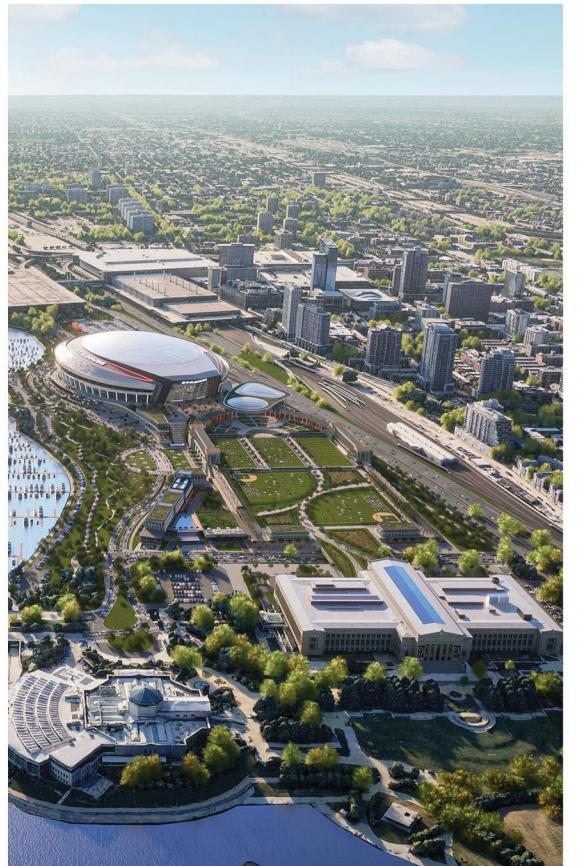
67

### 10 Uiwang Civic Center

Uiwang-si, South Korea

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# Professional Work

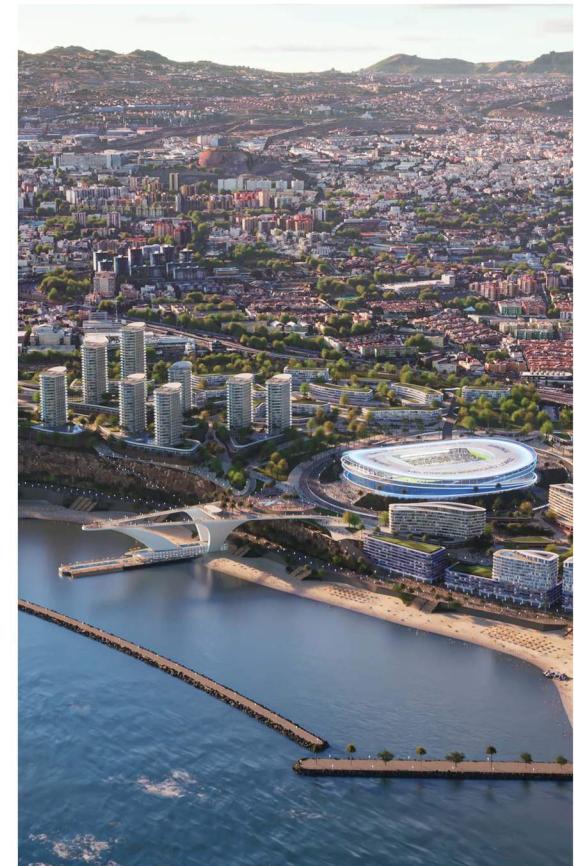


**01** Chicago Bears Stadium | Chicago, Illinois

MANICA Architecture | Kansas City, Kansas

## Construction: Concept

The proposed multi-purpose domed Chicago Bears Stadium, with a capacity of 60,400 spectators, is a state-of-the-art fixed-roof facility slated for construction on Chicago's Museum Campus. This transformative development aims to serve as the new home for the Chicago Bears while integrating seamlessly into the city's architectural and cultural fabric. The project emphasizes the expansion of public open and green spaces, fostering a safe and inviting environment for families to gather and engage in recreational activities. Anchored by the cutting-edge stadium, the campus will enhance downtown Chicago's vitality, strengthen connectivity to the adjacent museums, and enrich the cultural experience for residents and visitors. Designed as a year-round destination, the stadium and its surrounding campus will contribute to a more vibrant and dynamic urban landscape. My contributions to this ambitious project include the development, design, coordination and management of a 200-acre master plan model; collaboration with civil engineers to ensure seamless integration of infrastructure design; development of interior premium spaces; and the creation of Unreal Engine render and virtual interaction models to bring the vision to life.



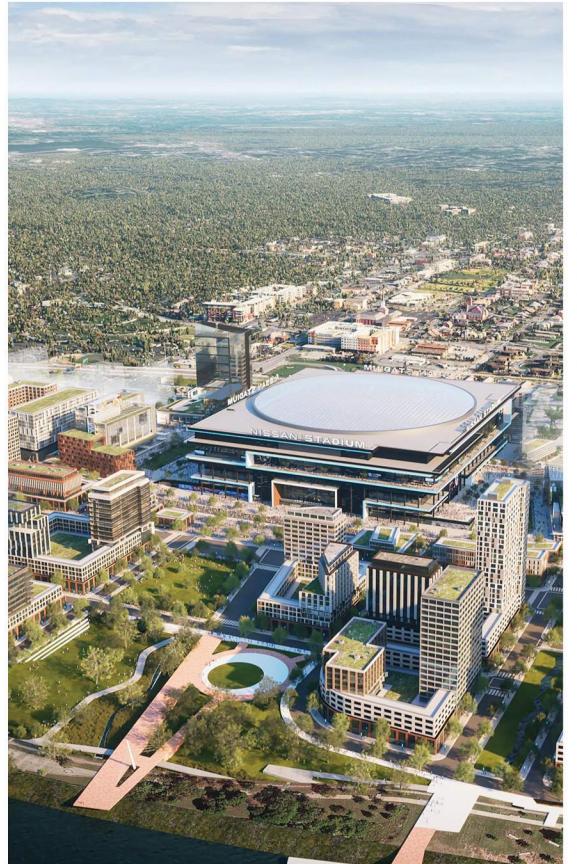
**02** New Estadio Heliodoro Rodríguez López | Tenerife, Spain

MANICA Architecture | Kansas City, Kansas

## Construction: Concept

Nestled on the island of Tenerife, the proposed new stadium for Club Deportivo Tenerife will be a landmark stadium with a seating capacity of 35,000. Positioned as a striking jewel within a 200-acre master plan, the stadium will be set in a revitalized site that reclaims a decommissioned oil refinery. The design of the stadium will offer an immersive experience, allowing spectators to engage with panoramic views of the Atlantic Ocean. The stadium will feature a dynamic façade, designed to respond to both the surrounding environment and the energy of the crowds, creating a sense of movement and excitement. The stadium's development will seamlessly integrate with the fabric of downtown Santa Cruz, creating a dynamic extension to the city. The design includes a connection to the historic Rambla de Santa Cruz, which extends through the site, linking key features such as vibrant stadium gardens, a central plaza, a sculptural elevated pier, and newly reclaimed waterfront access. As a design lead, I took on a leading role in the master plan design, development, and management of this project. I was integral in the decision and creation of unique fan experiences that elevate the spectator journey, as well as the development of a dynamic and responsive stadium façade.

# Professional Work

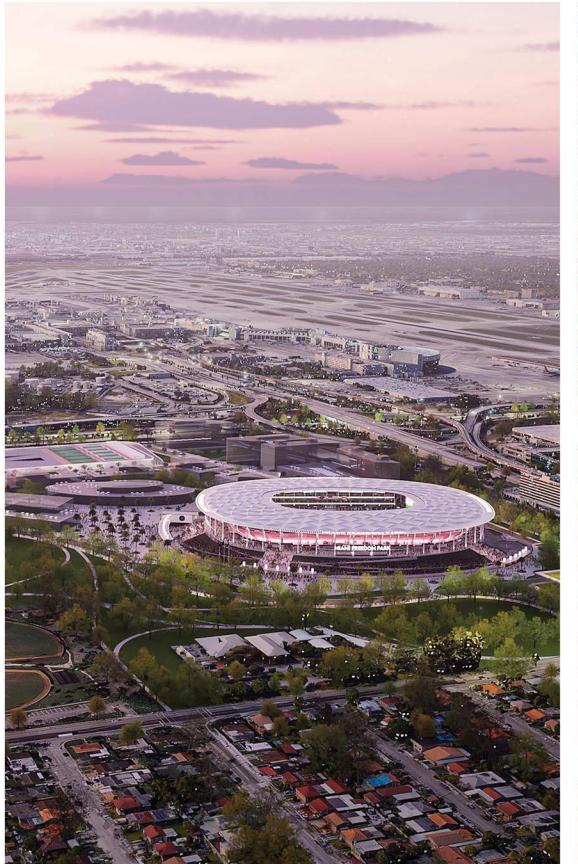


**03** Nissan Stadium | Nashville, Tennessee

MANICA Architecture | Kansas City, Kansas

*Construction: In progress*

The New Nissan Stadium will serve as the centerpiece of Nashville's East Bank redevelopment, offering a modern, fully enclosed, and air-conditioned facility with approximately 63,500 seats. Its horse-shoe-shaped seating arrangement opens to breathtaking views of downtown Nashville across the Cumberland River, blending the city's spirit and history with cutting-edge design. The stadium is envisioned as a multi-purpose venue for world-class events, including the Super Bowl, Final Four, and top touring concerts. Luxury experiences are emphasized through an array of clubs, lounges, studio box seats, and suites, dispersed across all levels. Outdoor terraces and rooftop-inspired spaces further enhance the venue's connection to Nashville's vibrant culture. As a driving force behind this transformative project, I played a pivotal role in crafting premium club spaces, developing immersive interior renderings, and designing elevated fan seating bowl experiences. I also reimagined the fan concourse as a dynamic hub of engagement and led the coordination of structural and MEP models, seamlessly integrating these elements into a cohesive and groundbreaking design.



**04** Miami Freedom Park | Miami, Florida

MANICA Architecture | Kansas City, Kansas

*Construction: In progress*

The new Miami Freedom Park Stadium will serve as the centerpiece for the greater Freedom Park development in Miami, Florida. The simple, elegant stadium features a full 360-degree seating arrangement with a single rake bowl, placing its 27,000 spectators as close to the action as possible. The open-air stadium includes a large tensile canopy to provide shade and shelter from sun and rain over the full seating bowl and exterior concourse. The current design envisions a variety of clubs, loge seats, terraces, and suites primarily on the west side of the stadium concentrating most luxury experiences for spectators near the VIP entrance to the stadium. The Main Concourse features 360-degree views of the lush gardens surrounding the stadium as well as simple to navigate access to seats and amenities. As part of the design team, I contributed to the interior premium experience design, created immersive Unreal Engine renderings, applied Grasshopper scripting for the canopy structure, and worked closely with structural engineers. Combining cutting-edge design with versatility, Miami Freedom Park Stadium will be a world-class destination for sports and entertainment.

Located in Jungu-gu, Seoul, South Korea, the Solport-Skyhive represents the inaugural vertiport in a network that integrates seamlessly with Seoul's transportation system. This cutting-edge structure aims to revolutionize transportation in a city renowned for its efficient public transit. Moreover, it serves as a blueprint for other cities looking to establish their own vertiport transit networks. Derived from the Korean word for pine trees, "sol," the Solport-Skyhive stands as a towering testament to sustainable construction, being the first mass timber skyscraper in South Korea. Drawing inspiration from the Korean red pine, the national tree, the vertiport embraces a modular design, symbolizing organic growth akin to a flourishing tree. Initially equipped with three terminals, the vertiport possesses the flexibility to expand over time, much like the branches of a tree responding to changing needs.

As a transit hub, the Solport-Skyhive seamlessly integrates with the city's existing transit network, boasting direct access to four subway lines and multiple bus routes in close proximity. Beyond its practical function, the vertiport also doubles as a vibrant retail space, enriching the bustling shopping district where it proudly stands. Designed with the environment in mind, the structure incorporates lush greenery and calming water features, drawing inspiration from the aesthetic elements of the nearby Cheonggyecheon Stream and Dongdaemun Design Plaza (Designed by Zaha Hadid).

05

## Solport - SkyHive

**Location:** Jungu-gu Seoul, South Korea

**Completion Date:** May 2023

**Project Team:** Alex Lamoureux and Ethan Overland

**Professor:** Dr. Kapila D. Silva

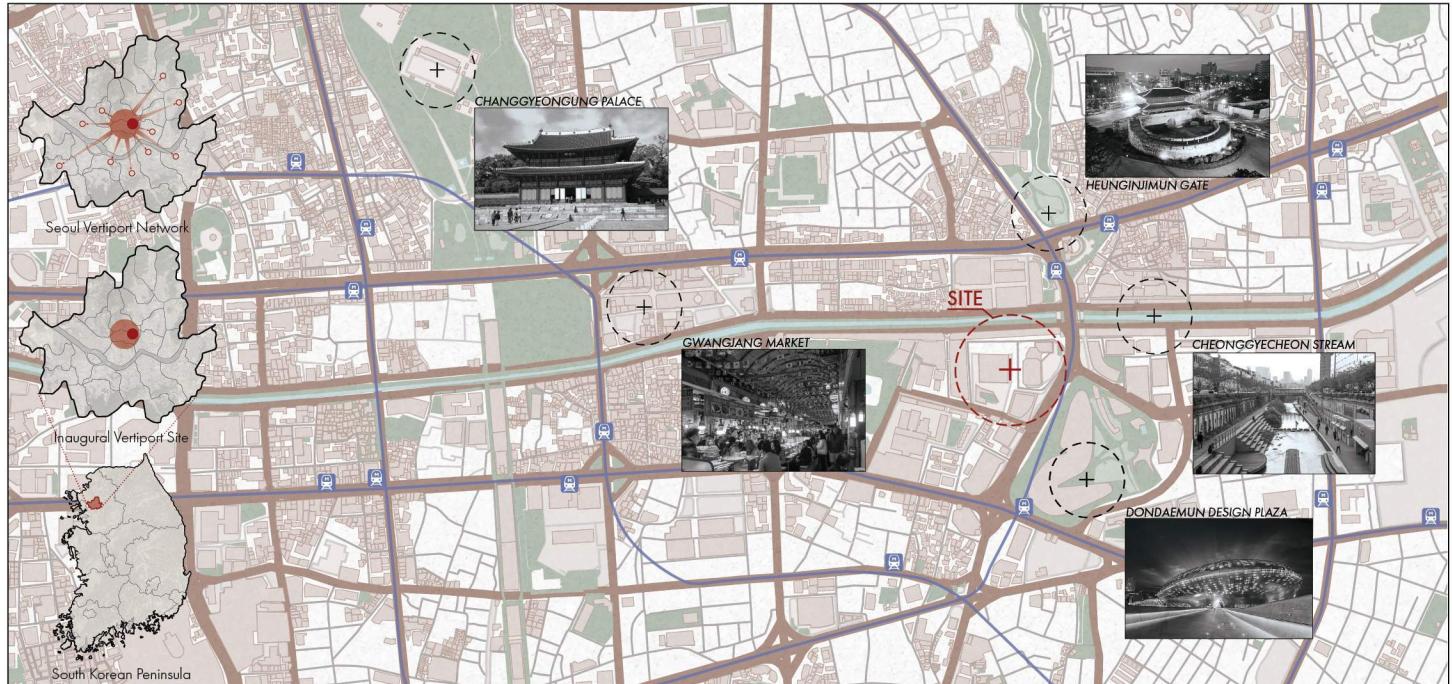
**Use Type:** Vertiport (Urban Air Mobility Transit Hub)

(Rhino, Grasshopper, Escnape, Photoshop, Illustrator)



# SITE RESEARCH

## A Dynamic Fusion of Tradition and Modernity



## The Continuity of Seoul and Its Culture



**Ha - Nok**  
**한옥**  
Korean hanok design is a traditional architectural style characterized by wooden structures, curved tiled roofs, and open courtyards, harmonizing with the natural environment. Its significance lies in its reflection of Korean cultural values, emphasizing balance, connection to nature, and a sense of serenity in domestic spaces.

**So - Na - Mu**  
**소나무**  
Korean red pine, known for its straight, tall trunks and resilient wood, is a symbol of strength and longevity in Korean culture. It is highly valued for its durability and aesthetic qualities, often used in traditional architecture, furniture, and even spiritual practices, representing harmony with nature and enduring vitality.

**Jae - Rae - Si - Jang**  
**재래시장**  
Korean street markets are bustling centers where a variety of foods, goods, and crafts are sold, offering a taste of the country's rich culinary and artisanal heritage. These markets play an important role in fostering community interaction, preserving traditional crafts, and reflecting the vibrancy of Korea's urban culture.

**Ja - Ha - Cheol**  
**지하철**  
Seoul's subway network, comprising 23 lines and over 700 stations, serves as a vital transportation system for the city's residents and visitors. It plays a crucial role in reducing traffic congestion, supporting economic activity, and providing a sustainable and eco-friendly mode of travel for millions of daily commuters.

## Existing Site Buildings



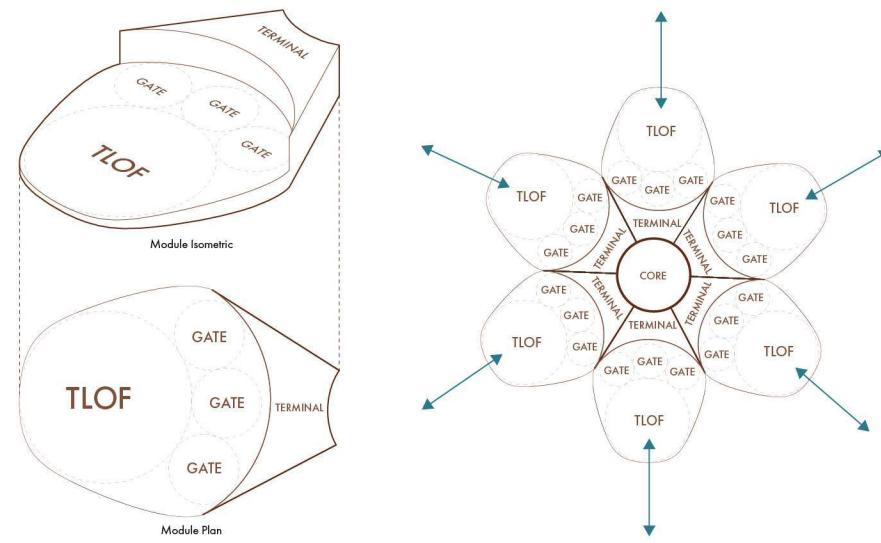
During a visit to the site and the surrounding Jung-gu district in the summer of 2022, it was found that the office buildings, malls, and small retail spaces currently located there are largely underutilized or abandoned, likely due to the impacts of COVID-19 and other factors. This distinctive site was not only positioned adjacent to key urban landmarks such as Dongdaemun Design Plaza and the revitalized Cheonggyecheon Stream, but it also presented a unique opportunity for integrating a vertiport into the dense, vertical urban fabric.

# THE VERTIPORT TYPOLOGY

## The Future of Mass Transit

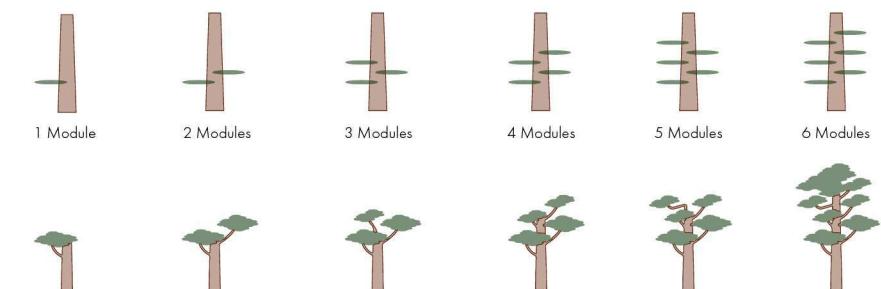


## Landing Pad Parti

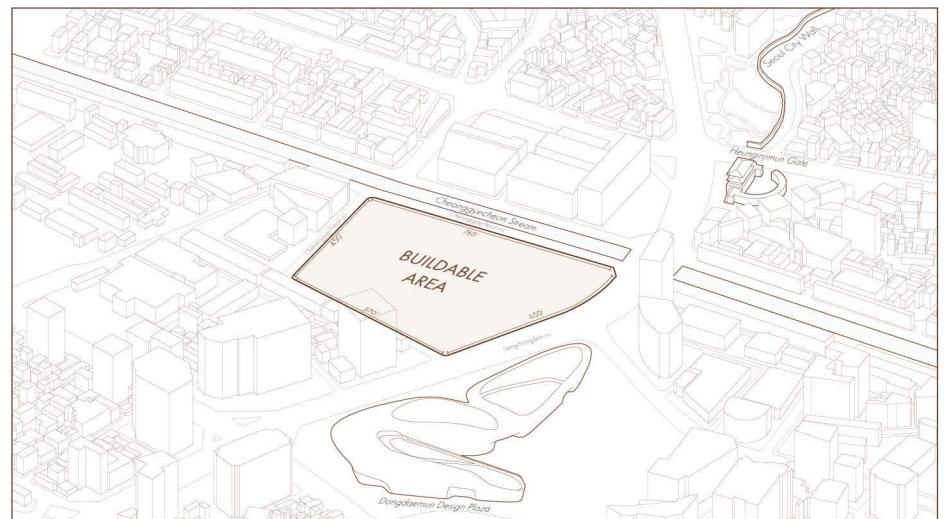


Encircling the central vertiport core, there are six terminal modules in an array. Each module has a passenger terminal, three parking gates, and one designated touchdown and lift-off area (TLOF). The arrangement of these landing modules was essential to adhere to efficiency requirements given the urban site constraints.

## Red Pine Modularity

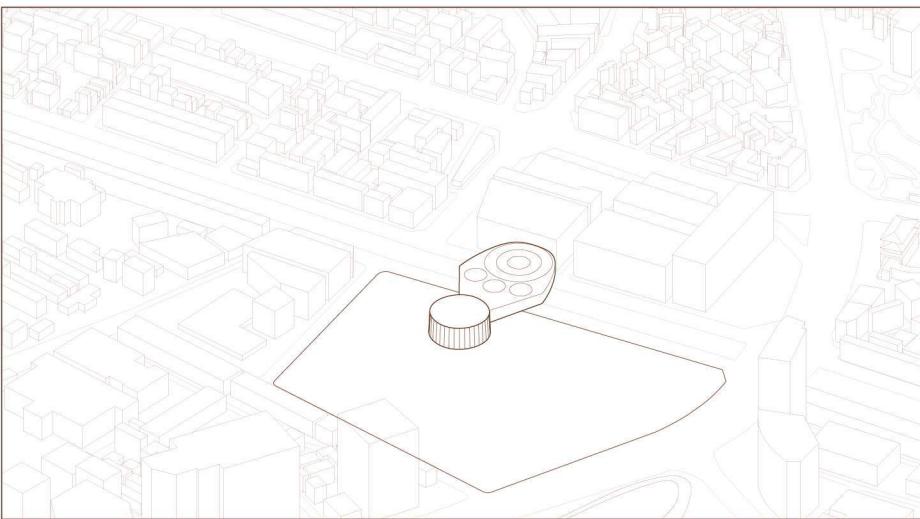


Seoul's advanced public transit network required a modular design to accommodate the possible growing demand for E-VTOL flights and the establishment of new vertiports. The modular approach allows the vertiport and its E-VTOL network to expand efficiently as more landing pad modules are added, reflecting the natural growth pattern of a Korean red pine tree. This scalable design approach ensures that the vertiport can efficiently integrate into the urban fabric.



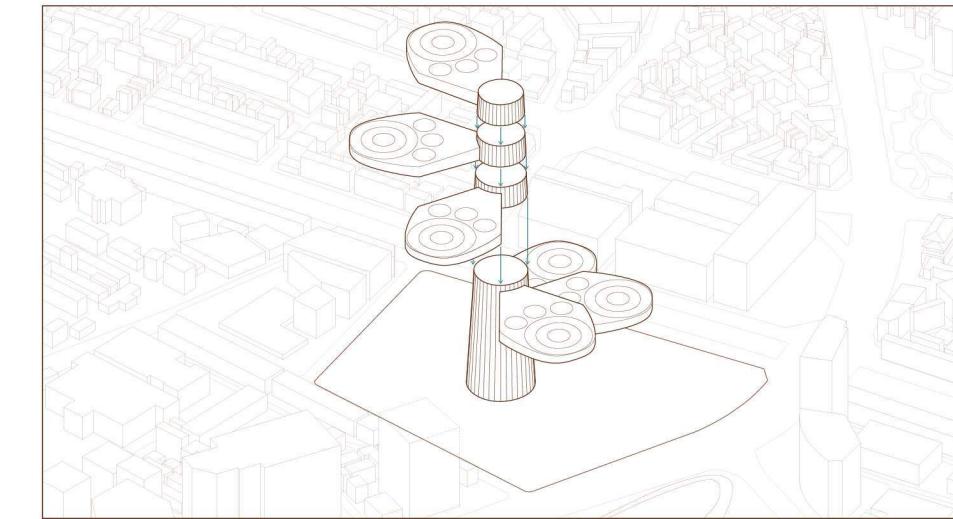
## 01 Site + Context

The site is located in the district of Jung-gu in Seoul, South Korea. The site has adjacencies to the Dongdaemun Design Plaza and Cheonggyecheon Stream. The site also has proximities to the historic East Gate and the Seoul Fortress Wall.



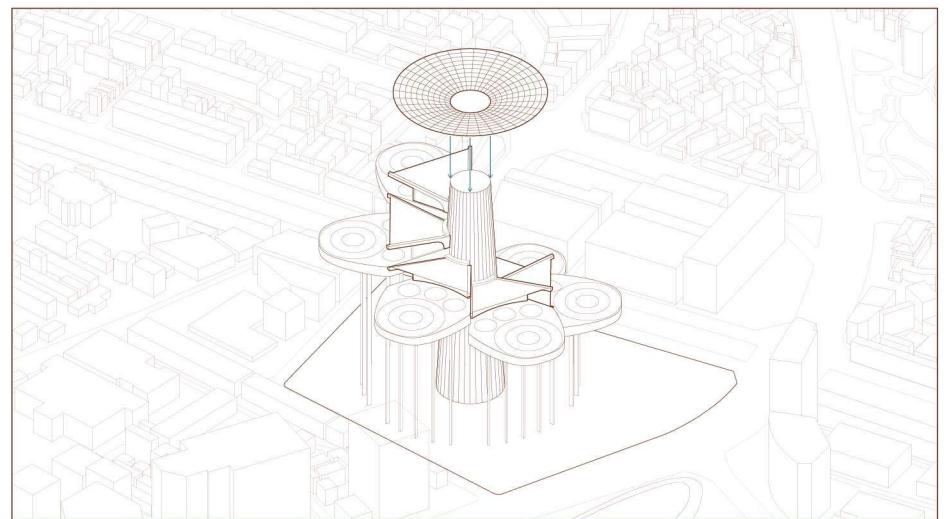
## 02 Establishing a Module

A module was established with one landing pad and three boarding gates. This module was created as a response to the site constraints, particularly the site's size and the heights of nearby buildings, necessitating a module that could have varying flight paths.



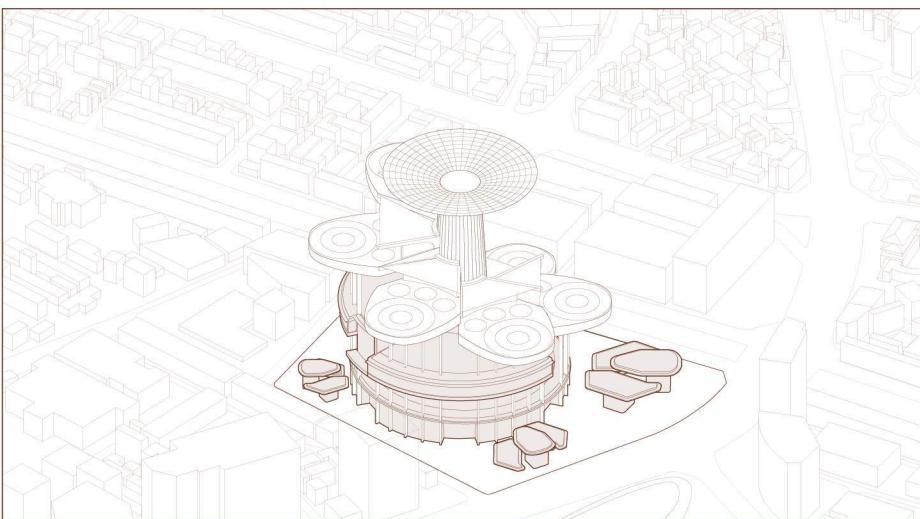
## 03 Growing the Tree

Like a tree, the module would grow over time, responding to the demands of the vertiport and providing the number of landing pads and gates needed. The modular approach also allows the vertiport to continue running even if one landing pad must close down.



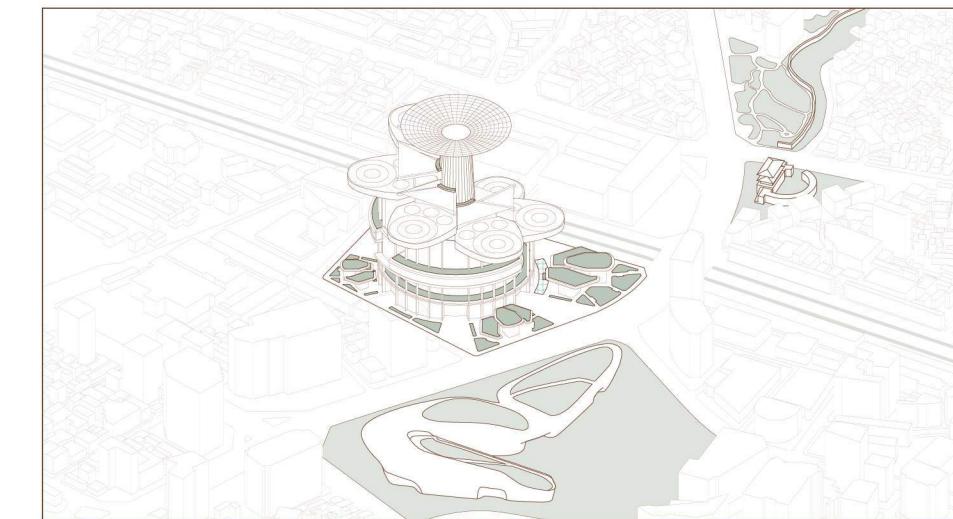
## 04 Forming the Canopy

The vertiport, like a tree, has a canopy at the top. The top canopy serves as a photo voltaic array and storm-water collection device. Canopies are also placed on the vertiport modules, creating overhangs that protect passenger boarding and deplaning the eVTOLs.



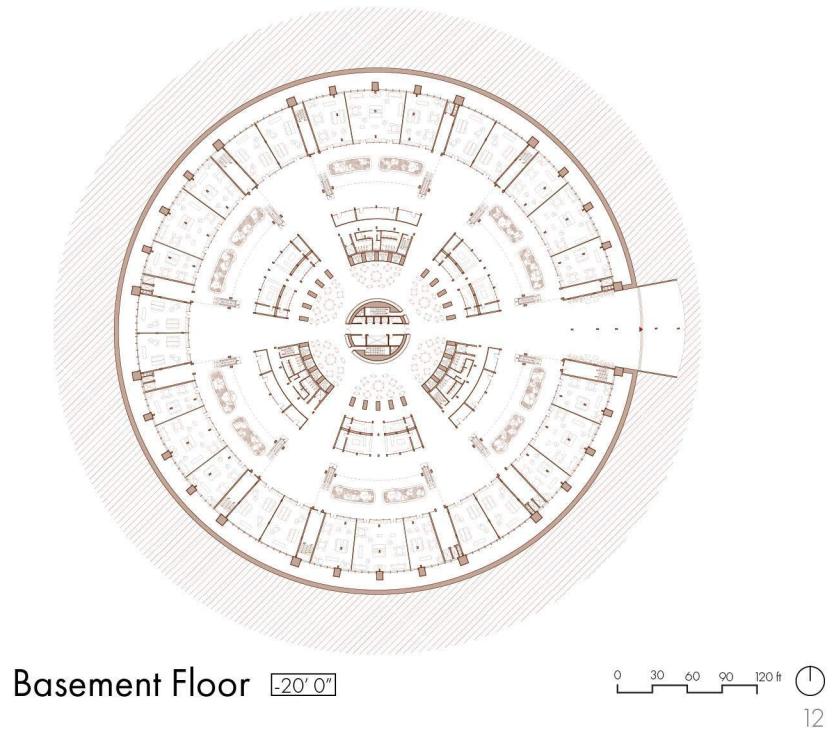
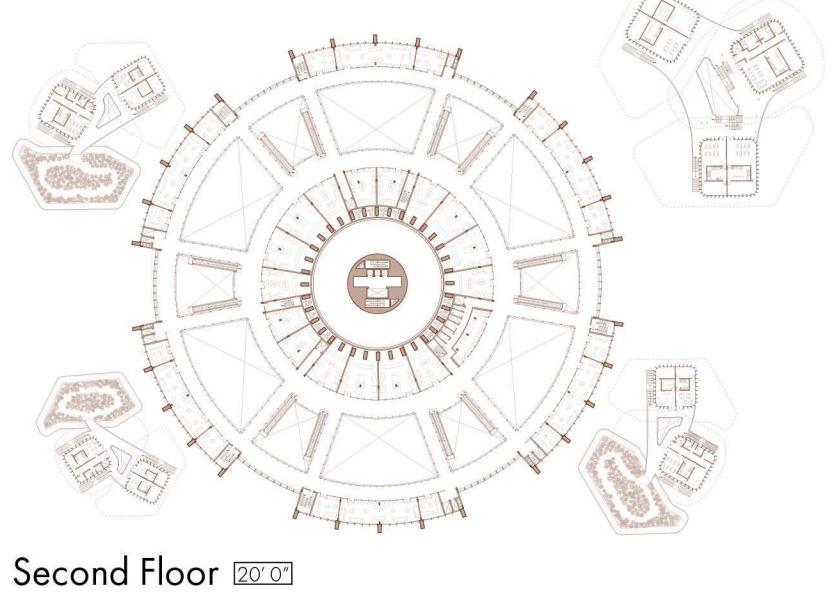
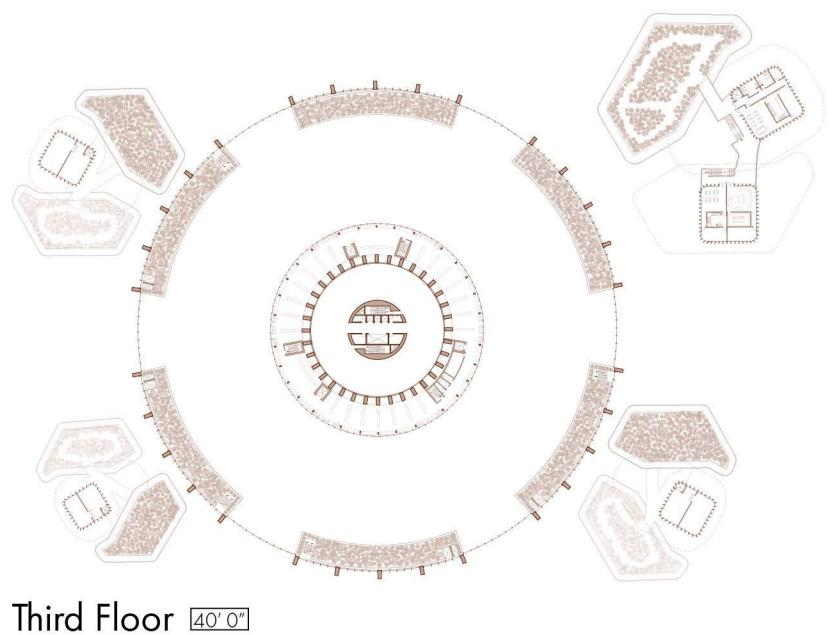
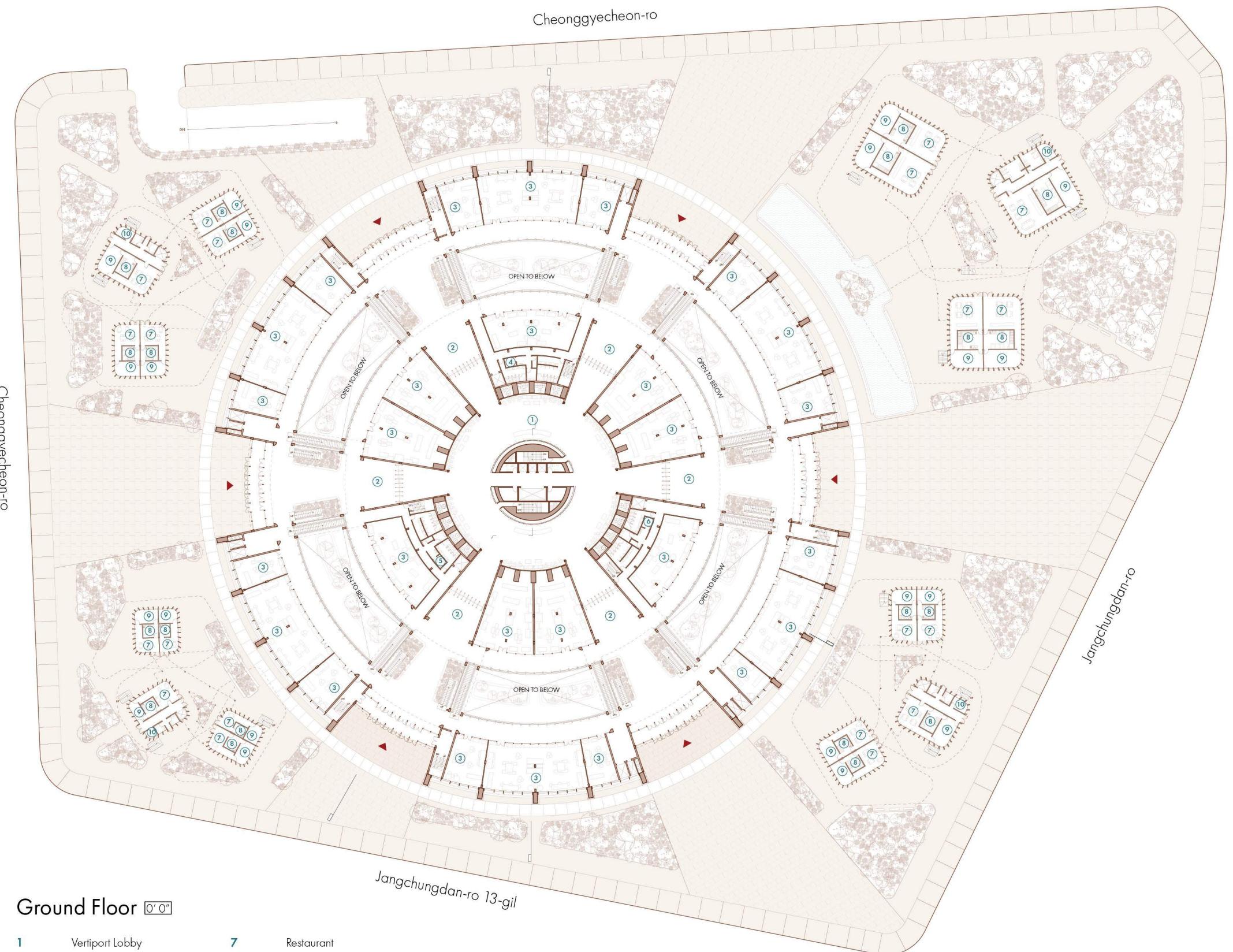
## 05 Grafting Program

Additional branches of the support program are "grafted" onto the tree - Creating retail, dining, and public space.

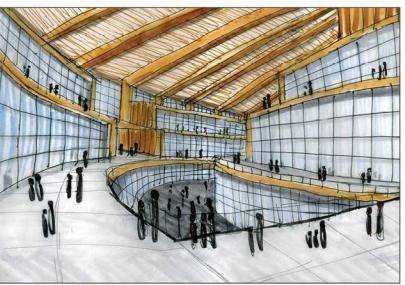
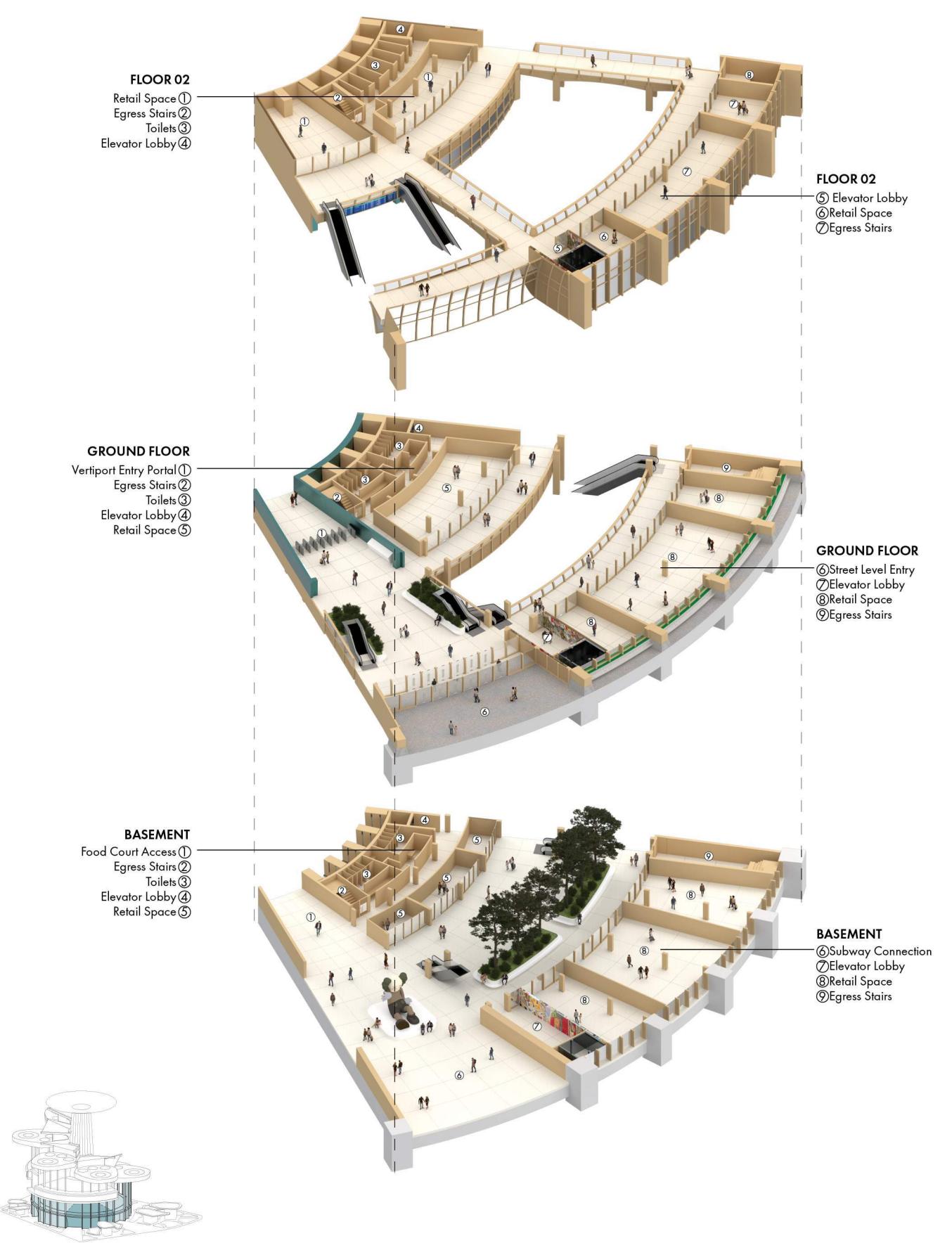


## 06 Connecting to Nature

Green space is brought horizontally onto the site and vertically onto the building, connecting the vertiport with nature and evoking the image of the tree.

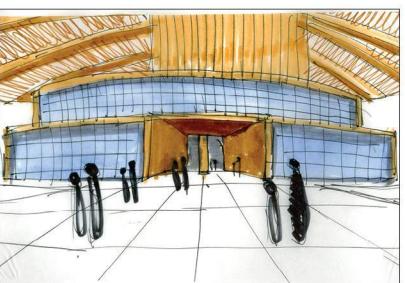


## MALL MODULE EXPLODED AXONOMETRIC



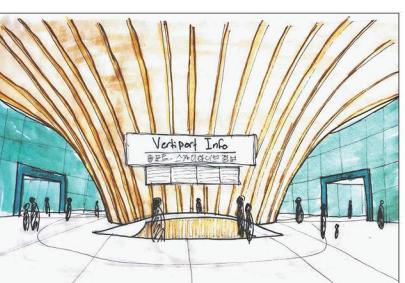
**Mall Concourse**

In tandem with the vertiport, the Solport-Skyhive boasts a circular mall at its base. It features an expansive glass atrium that bathes the concourse in natural light, creating an open, airy atmosphere. The blend of luxury and department stores seamlessly intertwines with the surrounding lush greenery and iconic Korean red pine trees, adding to the mall's unique ambience.



**Vertiport Entry Portal**

At the base mall, passengers can access the vertiport through six distinct entry portals, distinguished by the vibrant teal color, symbolizing creativity, immortality, and hope in Korean culture.

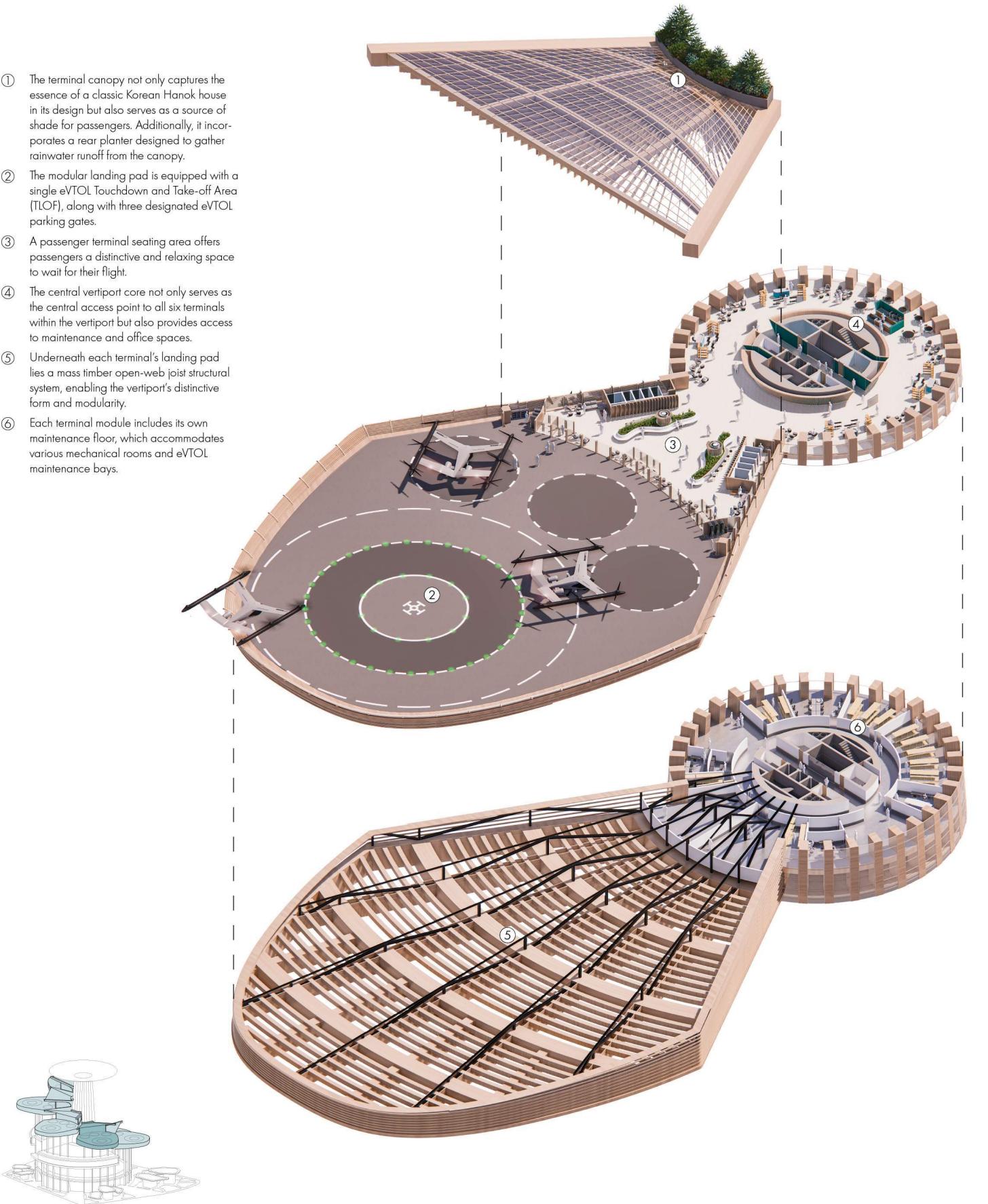


**Vertiport Terminal Lobby**

The vertiport's lobby features an expansive wood lattice structure, creating an elegant and inviting atmosphere. Its efficient layout allows passengers to easily access their designated gates through the core elevators for a seamless boarding process.

## TERMINAL MODULE EXPLODED AXONOMETRIC

- ① The terminal canopy not only captures the essence of a classic Korean Hanok house in its design but also serves as a source of shade for passengers. Additionally, it incorporates a rear planter designed to gather rainwater runoff from the canopy.
- ② The modular landing pad is equipped with a single eVTOL Touchdown and Take-off Area (TLOF), along with three designated eVTOL parking gates.
- ③ A passenger terminal seating area offers passengers a distinctive and relaxing space to wait for their flight.
- ④ The central vertiport core not only serves as the central access point to all six terminals within the vertiport but also provides access to maintenance and office spaces.
- ⑤ Underneath each terminal's landing pad lies a mass timber open-web joist structural system, enabling the vertiport's distinctive form and modularity.
- ⑥ Each terminal module includes its own maintenance floor, which accommodates various mechanical rooms and eVTOL maintenance bays.



**Passenger Terminal**

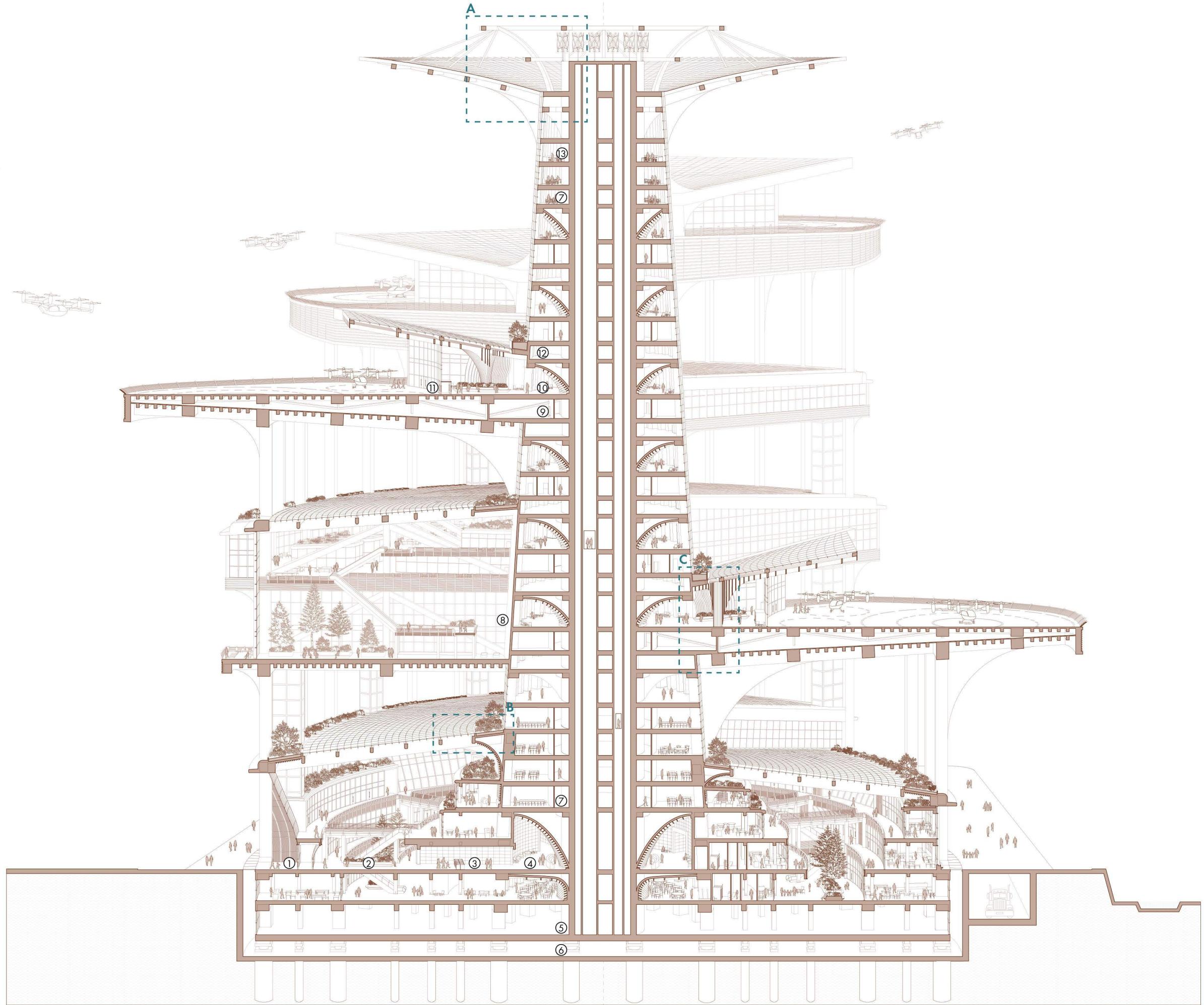
The vertiport terminal modules comprise three gates, each designated for an individual E-VTOL. On either side of the terminal's central axis, there are two gluelam fin columns that grow towards the landing pad's periphery, guiding passengers seamlessly through the space.

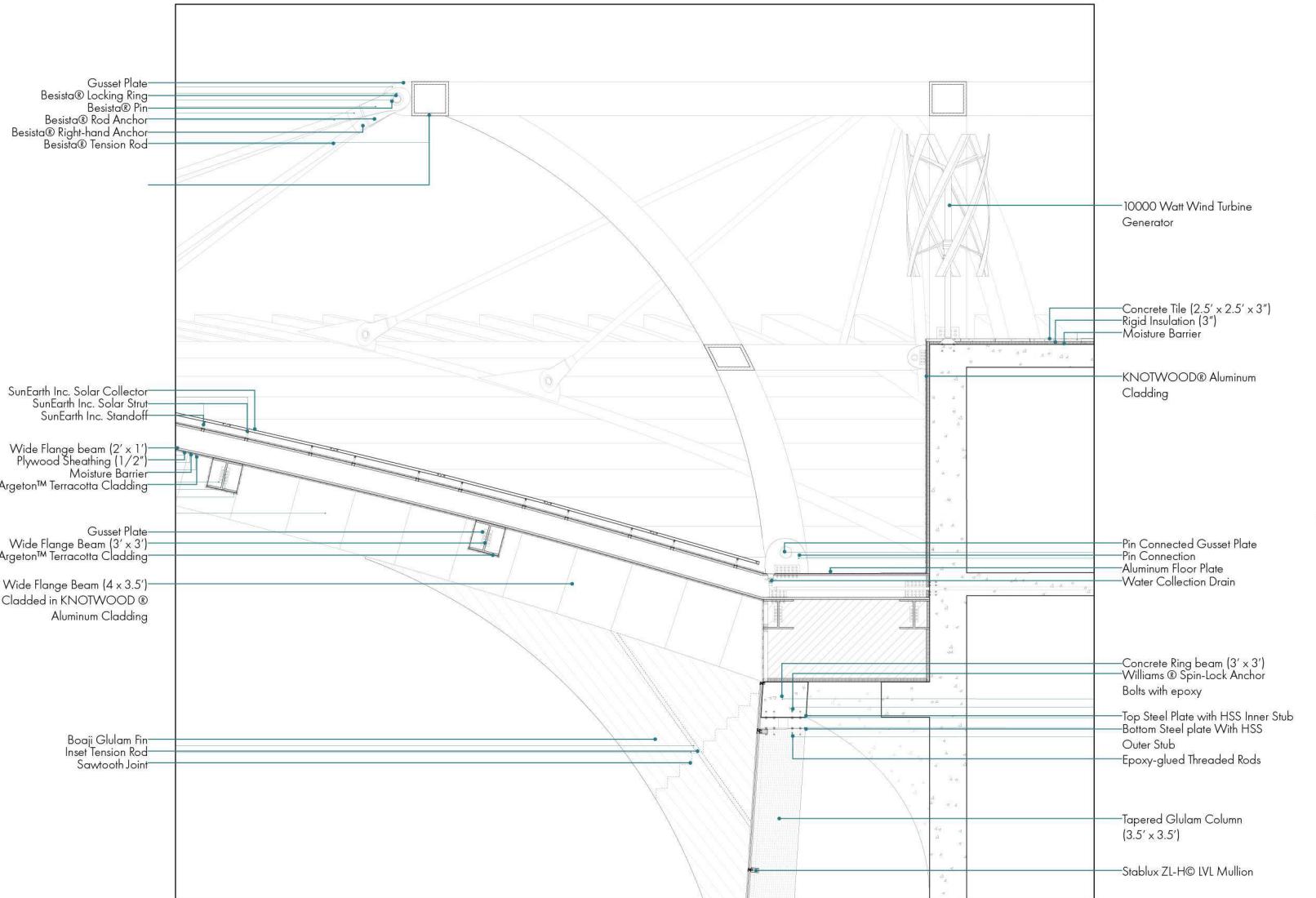
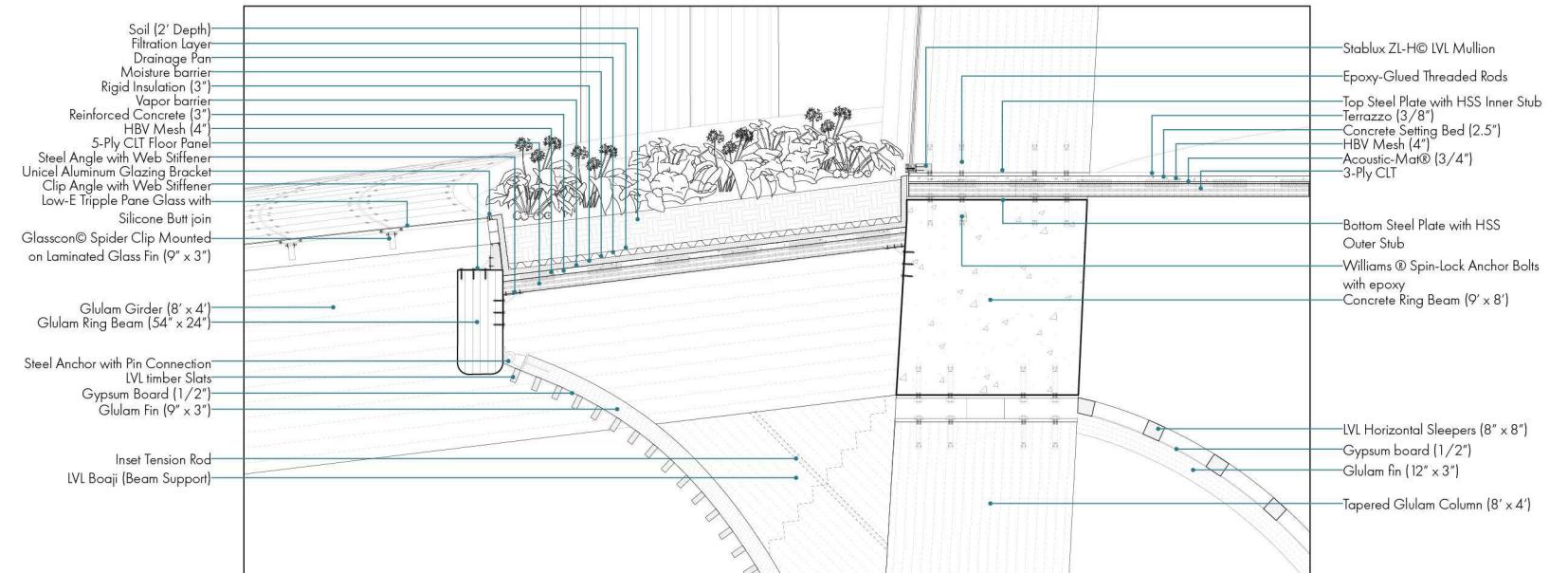
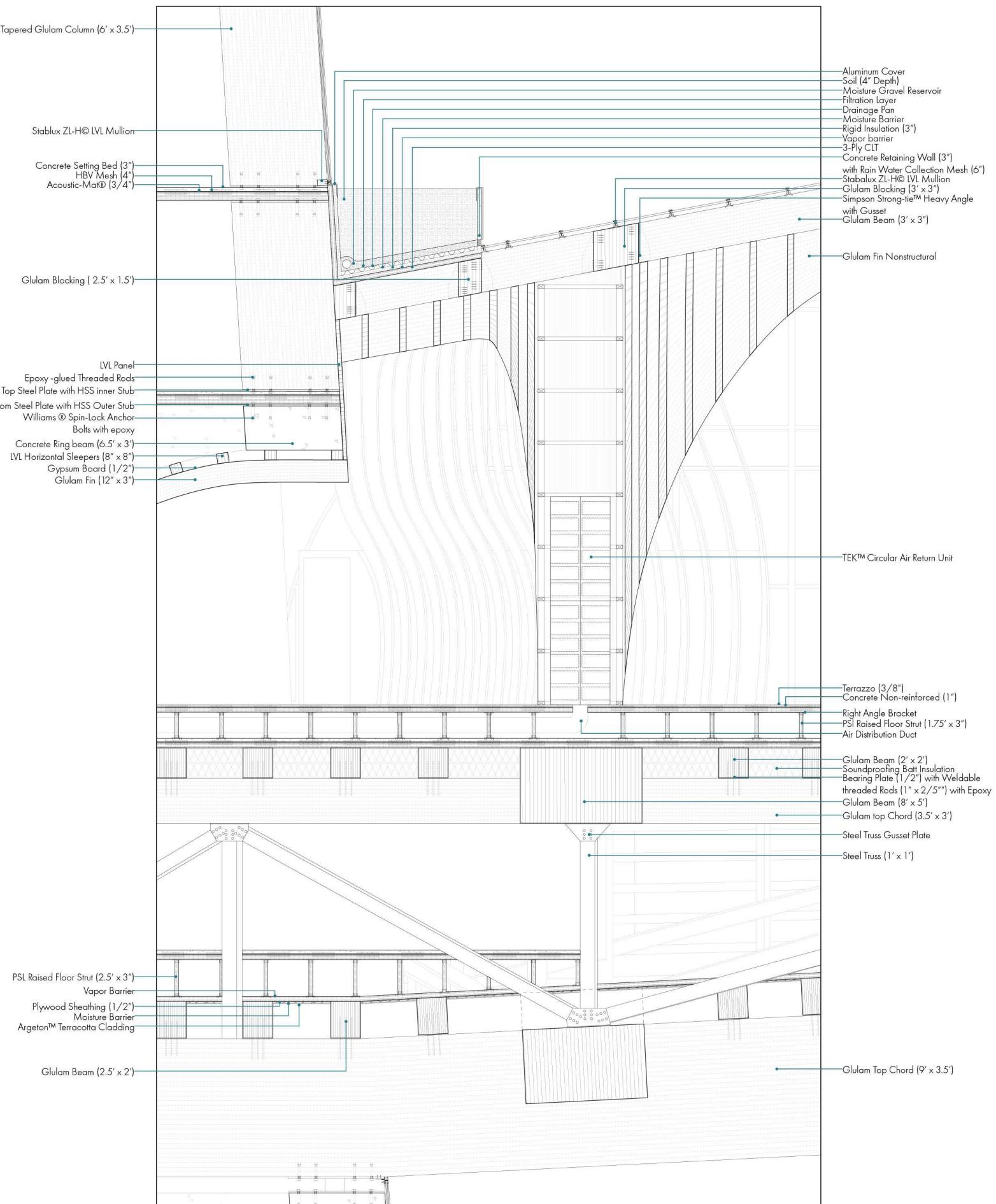


**Terminal Landing Pad**

Upon landing, eVTOLs will dock at one of the three gates located beneath a distinctive glass canopy. This canopy draws inspiration from the traditional typology of Korean Hanok architecture, seamlessly blending the landing pad into the passenger terminal.

- ① Mall Entry Portal
- ② Mall
- ③ Vertiport Entry Portal
- ④ Vertiport Terminal Lobby
- ⑤ Service Level
- ⑥ Seismic Isolation System
- ⑦ Offices
- ⑧ Raised Mall
- ⑨ Landing Pad Maintenance Floor
- ⑩ Passenger Terminal
- ⑪ Landing Pad
- ⑫ AHU Level
- ⑬ Air Traffic Control



**DETAIL A****DETAIL B****DETAIL C**



Jangchungdan-ro Street



06

## Chicago Fire Forge Park

**Location:** Chicago, Illinois

**Completion Date:** May 2024

**Project Team:** Graylon Sestak

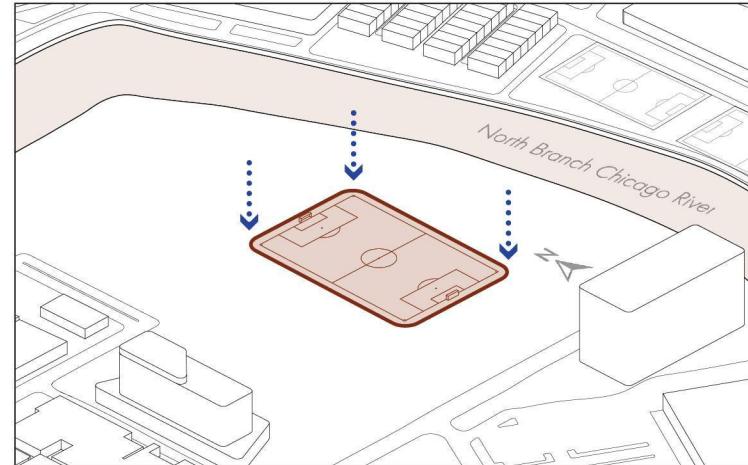
**Professor:** Dr. Gustavo Do Amaral

**Use Type:** Stadium and Master Plan

(Rhino, Grasshopper, Revit, Enscape, Photoshop, Illustrator)

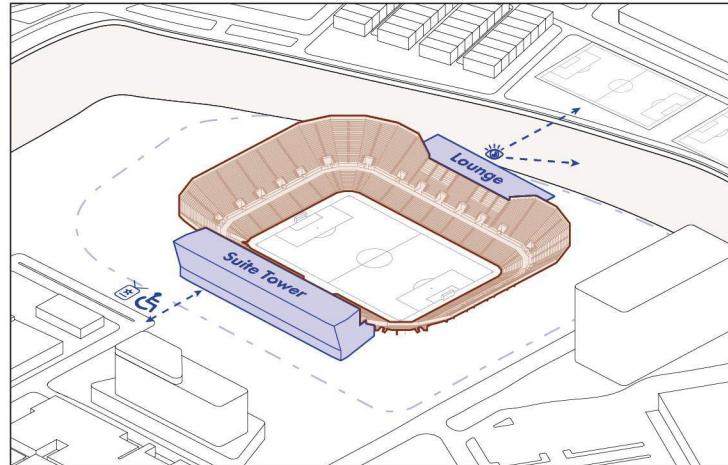
Chicago Fire Forge Park serves as the new home of Chicago Fire Football Club, bringing a 24,000-seat stadium and a 59-acre master plan to Wicker Park, just three miles northwest of downtown Chicago along the North Branch River. This transformative project redefines how stadiums can seamlessly integrate into the urban fabric of American cities. Drawing inspiration from Chicago's architectural legacy—including the Chicago Bungalow and The Rookery Building, both emblematic of the city's resilience after the Great Chicago Fire of 1871—the stadium is clad in terracotta battens, establishing a strong sense of place within the local architectural vernacular. An inboard amenity concourse fosters continuous fan movement throughout the stadium and its surrounding development. Designed with an intimate, high-energy matchday experience in mind, the stadium's steep seating bowl, featuring a super-riser configuration, brings fans closer to the action. The venue offers a range of premium viewing experiences, including a riverside lounge, patio club, and luxury suites, creating an unparalleled atmosphere for spectators.

Integrating into Chicago's urban fabric, the stadium's master plan revitalizes the North Branch River, transforming underutilized land and abandoned industrial sites into a communal landscape. Elevated on a 20-foot podium near the river, Chicago Fire's new stadium enhances public engagement with a boardwalk, retail frontage, and stepped landscape plazas, reconnecting Chicagoans to a once-inaccessible waterfront. Three pedestrian bridges provide access, while a recreational trail extension under the Kennedy Expressway anchors community practice fields, a repurposed warehouse food court, townhomes, residential towers, and retail stores.



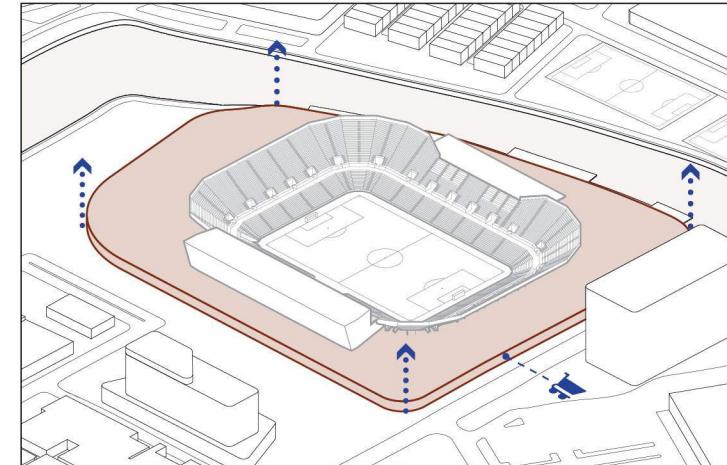
## **01 Site and Field Placement**

The site is situated along the North Branch of the Chicago River, just east of the Wicker Park neighborhood. To accommodate the fluctuating water table influenced by the river, the field is positioned at grade with a north-south orientation, optimizing shading for spectators and players.



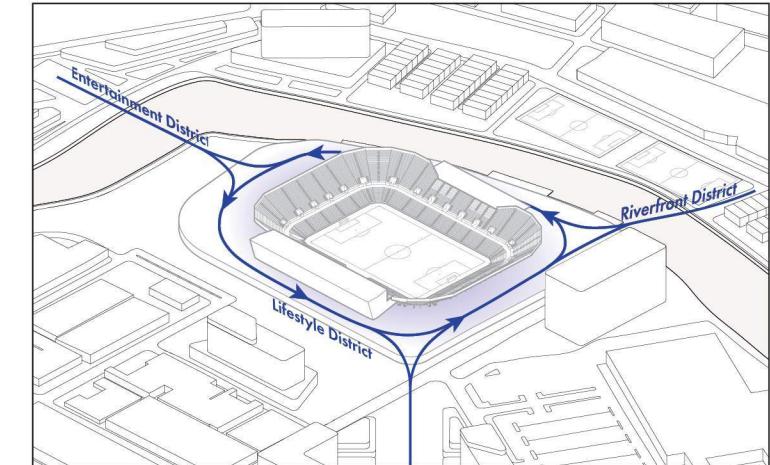
## **02 Seating Bowl and Premium Program**

Seating approximately 24,000 fans, the stadium features a compact bowl with a super-riser design for an immersive experience. Carved-out bowl sections house premium spaces, including an east-side riverside lounge with views of Lake Michigan and a west-side suite tower offering luxury suites and club spaces.



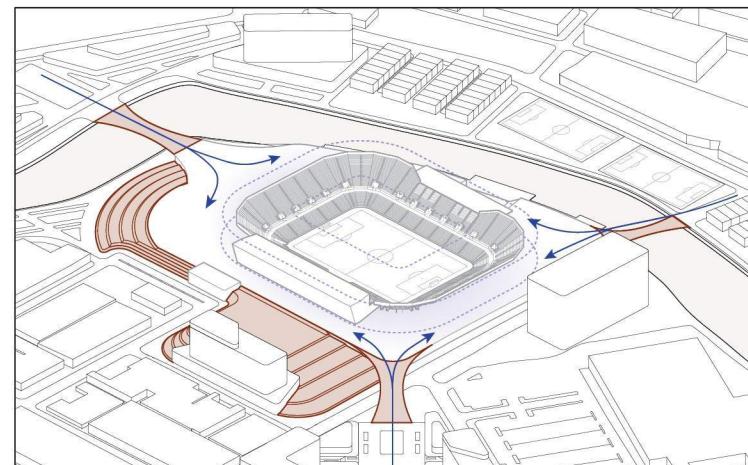
## **03 Raising the Podium**

A 20-foot podium elevates the main concourse level, enhancing accessibility for patrons. This podium also serves as a multi-functional base, housing essential event-level spaces, a parking garage, and retail frontage that activates the North Branch River Boardwalk.



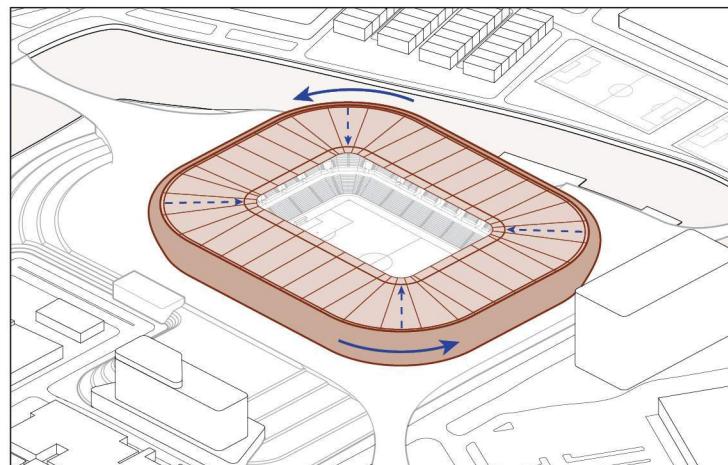
## **04 Master Plan Axes**

To seamlessly integrate the raised podium with the surrounding development, site axes establish connections with pedestrian flow and key public transit stops. A continuous circulation route around the stadium enhances accessibility, creating a seamless movement between the stadium and the urban fabric.



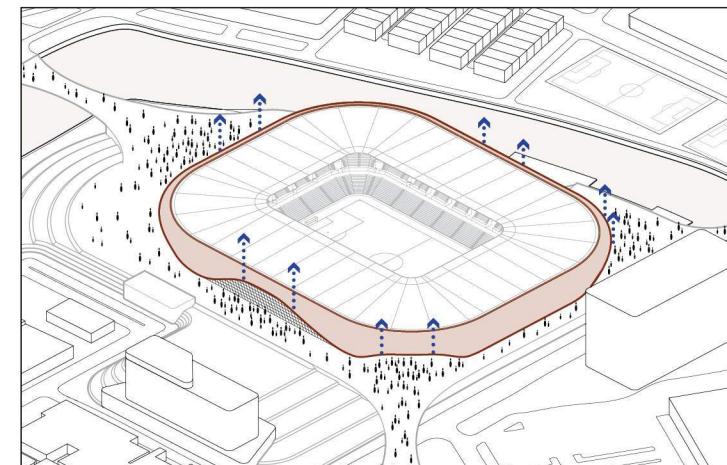
## **05 Podium Integration**

Providing access to the raised podium, three pedestrian bridges are placed, offering direct connections to the Lifestyle, Riverfront, and Entertainment Districts. Additionally, two landscaped stepped plazas are designed in the northwest and west, offering convenient access from grade level.



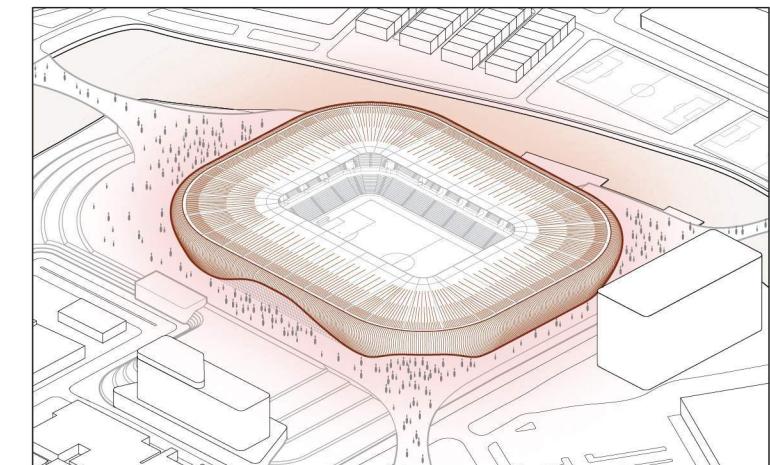
## **06 Enclose and Cover**

Through the use of a compression ring structural system, the main concourse is enclosed to ensure the stadium can be securely controlled, while the seating bowl is covered by an ETFE canopy, offering shade without compromising the natural grass growth on the pitch.



## **07 Patron Entry**

Entries along the stadium's façade are unveiled, following the master plan axes and connections to premium spaces. These openings are arched, echoing the Romanesque arches found throughout Chicago, such as those in The Rookery Building, originally constructed as the city's city hall after the Great Chicago Fire of 1871.



## **08 Permeation and Materiality**

The stadium's facade is wrapped in terracotta battens, producing a dynamic interplay of light and shadow that enhances the atmosphere of both the concourse and premium spaces throughout the venue.



#### Master Plan Predominant Features

1. 24,000 Seat Stadium with 20' Podium
2. Clybourn Metra Rail Station
3. The 606 Trail Extension

#### Stadium District

4. Hotel with Retail/ Parking Podium
5. West Plaza
6. Team Store/ ADA + VIP Entry
7. Northwest Plaza
8. Supporters Bridge and Plaza
9. Boardwalk with Retail Frontage

#### Lifestyle District

10. Ramped Plaza
11. Residential with Retail/ Parking Podium
12. Two-story Retail

#### Entertainment District

13. Theatre
14. Two-story Retail
15. Reclaimed North Branch Food Social
16. Hotel with Retail/ Parking Podium

#### Riverfront District

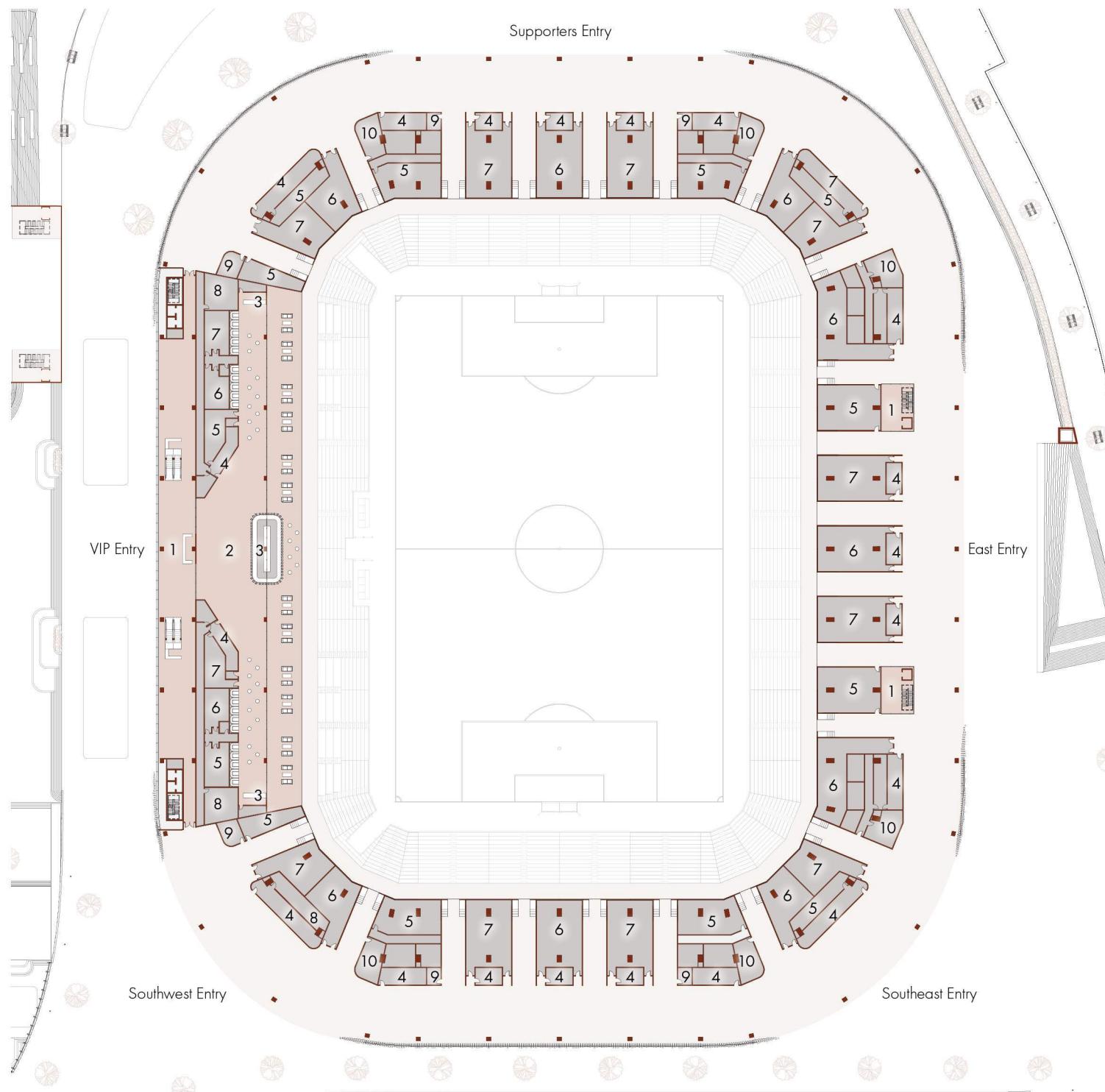
17. Residential with Retail/ Parking Podium
18. Townhouses
19. Community Practice Fields
20. Office with Retail/ Parking Podium

#### Gross Area

Residential: 1,133,000 sq ft  
 Hotel: 327,000 sq ft or 630 Keys  
 Retail: 661,600 sq ft  
 Office: 217,600 sq ft  
 Parking: 375,700 sq ft or 2,100 spots

#### Key

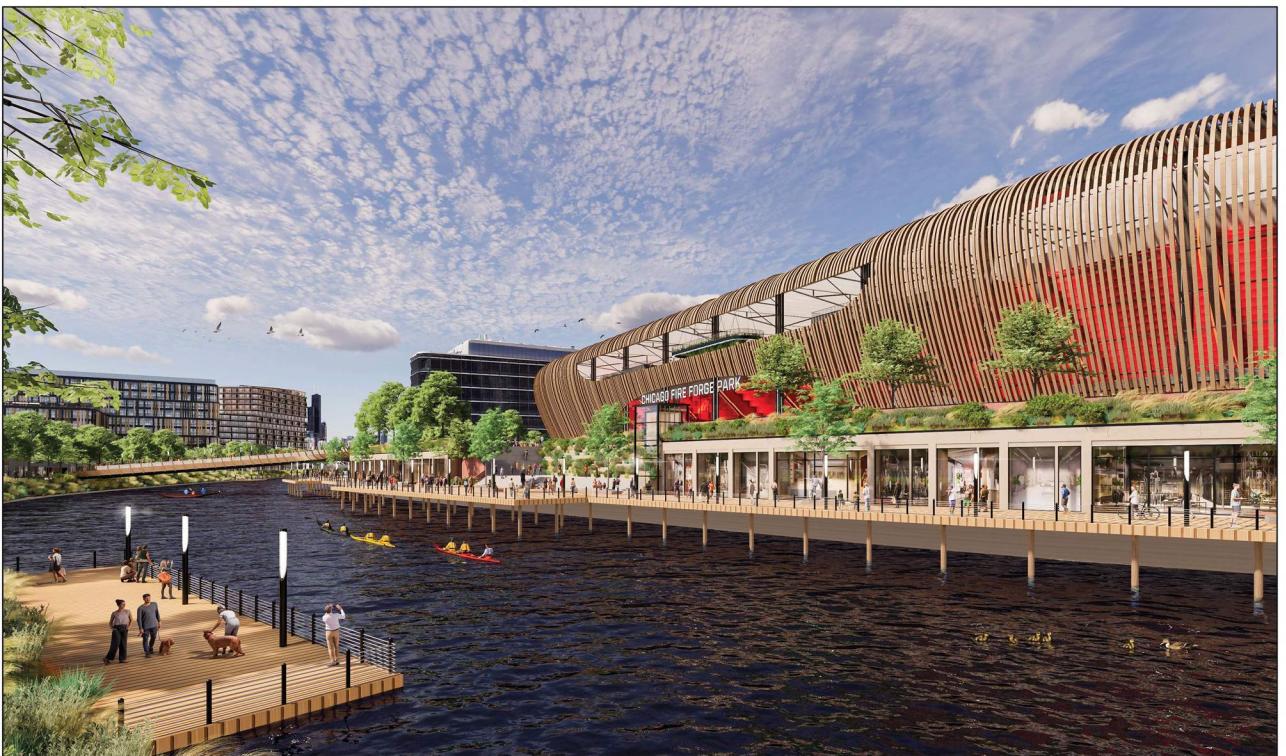
- — — 606 Trail Extension
- — — — Vehicle/ Truck Access
- ↔ Pedestrian Circulation



### Main Concourse 20' 0"

<b>1</b>	VIP Lobby
<b>2</b>	Patio Club
<b>3</b>	Bar
<b>4</b>	Concession Stand
<b>5</b>	Kitchen/ Commissary
<b>6</b>	Mens Restroom
<b>7</b>	Womens Restroom
<b>8</b>	Storage
<b>9</b>	Family Restroom
<b>10</b>	Guest Services

0 30 60 90 120 ft



North Branch River Boardwalk



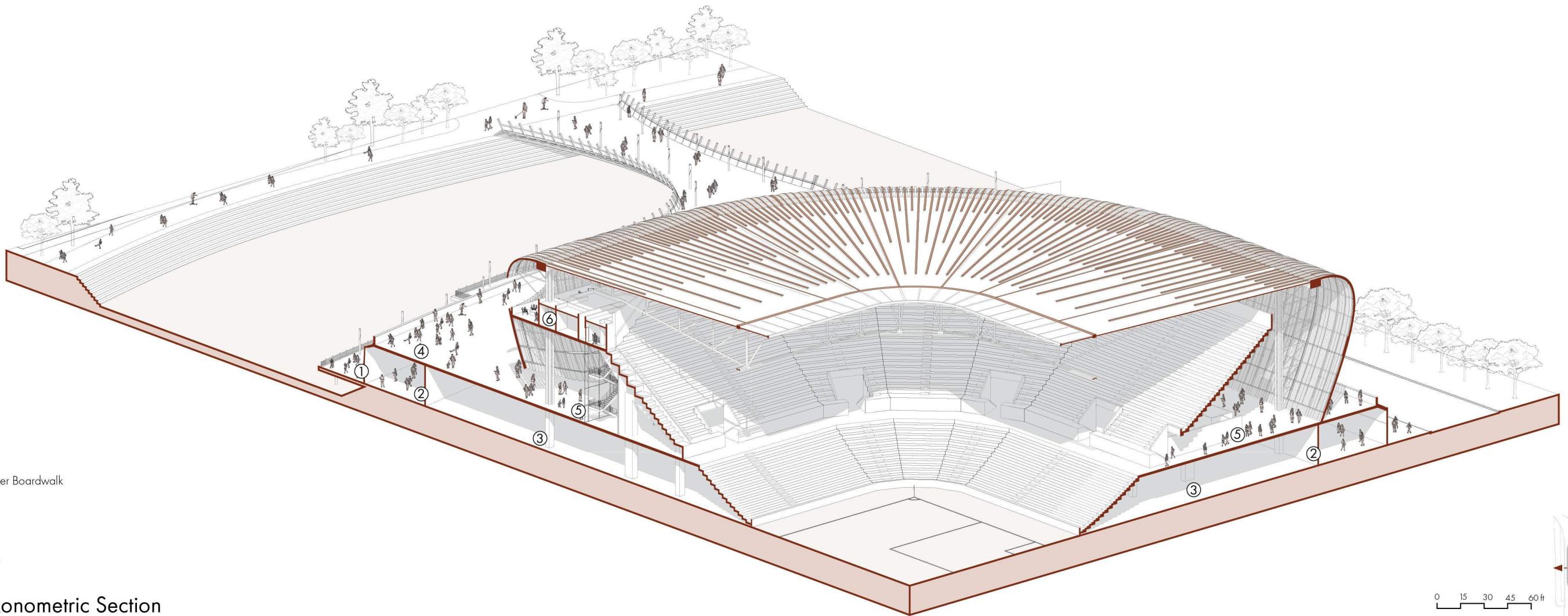
Player Tunnel Field Entry



Seating Bowl



Riverside Bar





Lifestyle District Ramped Plaza

Terra Tower, located in the Arena District of the Oklahoma City Core-to-Shore plan, reimagines the future of urban dwellings in the United States. Terra Tower is a mixed-use cross-laminated timber high-rise that looks to create a unique experience for the residents of Oklahoma City. The building's name, Terra Tower, is derived from the building's modulated terraces. These terraces are populated with trees and greenery to create vertical urban forests for the building occupants to enjoy. These vertical urban forests promote activity, solitude, noise reduction, better air quality, and thermal comfort within the high-density residential tower, unlike most current residential towers, which feature little to no biophilic design.

Terra tower would provide 250 housing units and 225 hotel rooms, strengthening Oklahoma City's population and bringing the city closer to a high-density future. The program of the building consists of a 525 ft residential tower, a four-story hotel, a sports betting lounge, and a shared central courtyard public space. Integrating itself within an Arena District that would feature many sporting events, Terra Tower houses a sports betting lounge, a new typology in a nightlife experience, and a shared courtyard space. These programmatic elements allow Terra tower to come alive within Oklahoma City's urban fabric and aid in reinventing the image of Oklahoma City.

07

## Terra Tower

**Location:** Oklahoma City, Oklahoma

**Completion Date:** December 2022

**Project Team:** Ethan Overland

**Professor:** Eddy Tavio

**Use Type:** Mixed-use Residential and Urban Development

(Rhino, Grasshopper, V-Ray, Photoshop, Illustrator)



# HISTORY



Current Core-to-Shore Conditions

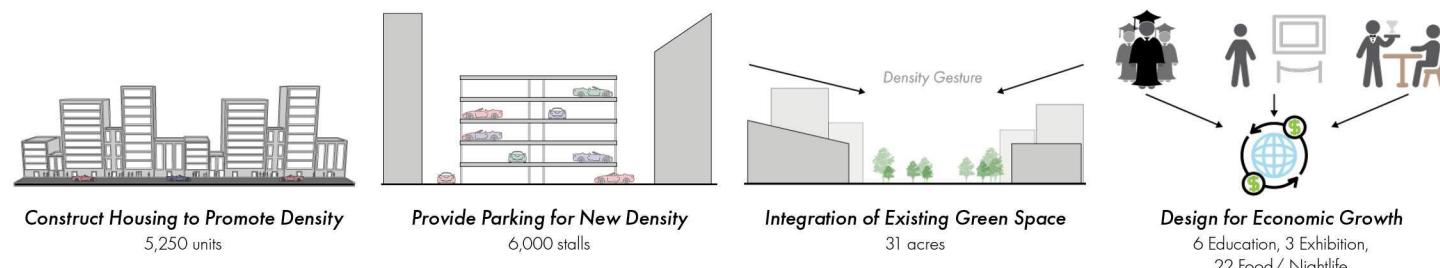


Located south of downtown Oklahoma City, the Core-to-Shore site is an area of underdevelopment and abandonment. The officials and citizens in Oklahoma City recognize this underdeveloped district and advocate for its urban growth. The government and its citizens have pushed for plans such as the Metropolitan Area Projects, MAPS, to help improve the area. These projects have propelled the vision of a Core-to-Shore framework plan in Oklahoma City, connecting downtown to the Oklahoma River.

# THE FUTURE OF OKLAHOMA CITY

What if 10,000 people moved to downtown Oklahoma City?

1. Creating an interconnected series of mixed-use districts that build community
2. Established variety in public and green space to build equity between districts
3. Created density and an engaging environment within the downtown framework

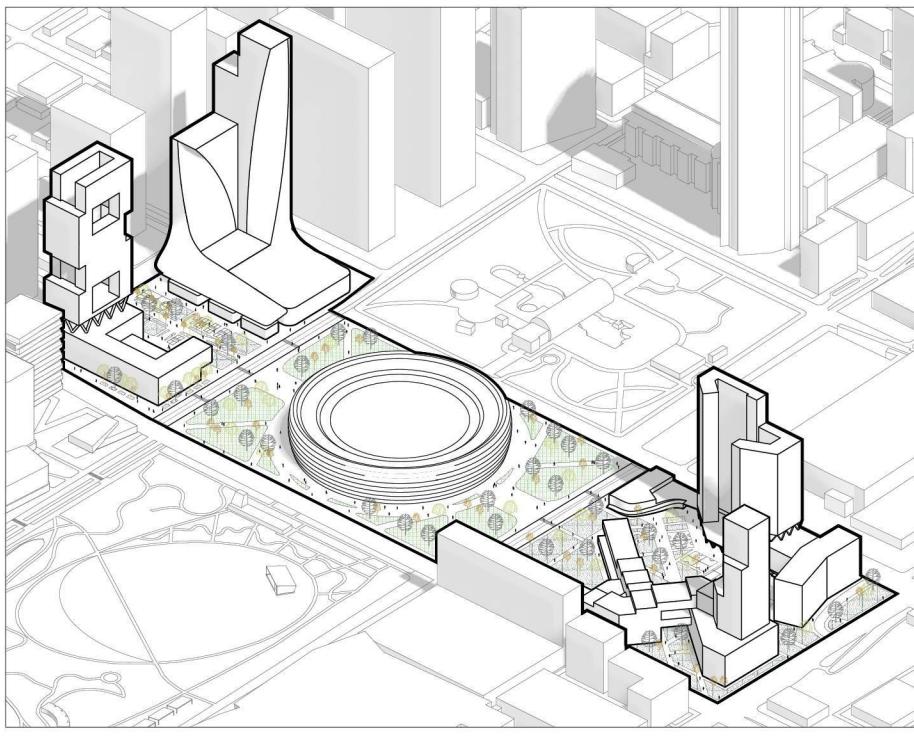


Proposed Future of Core-to-Shore

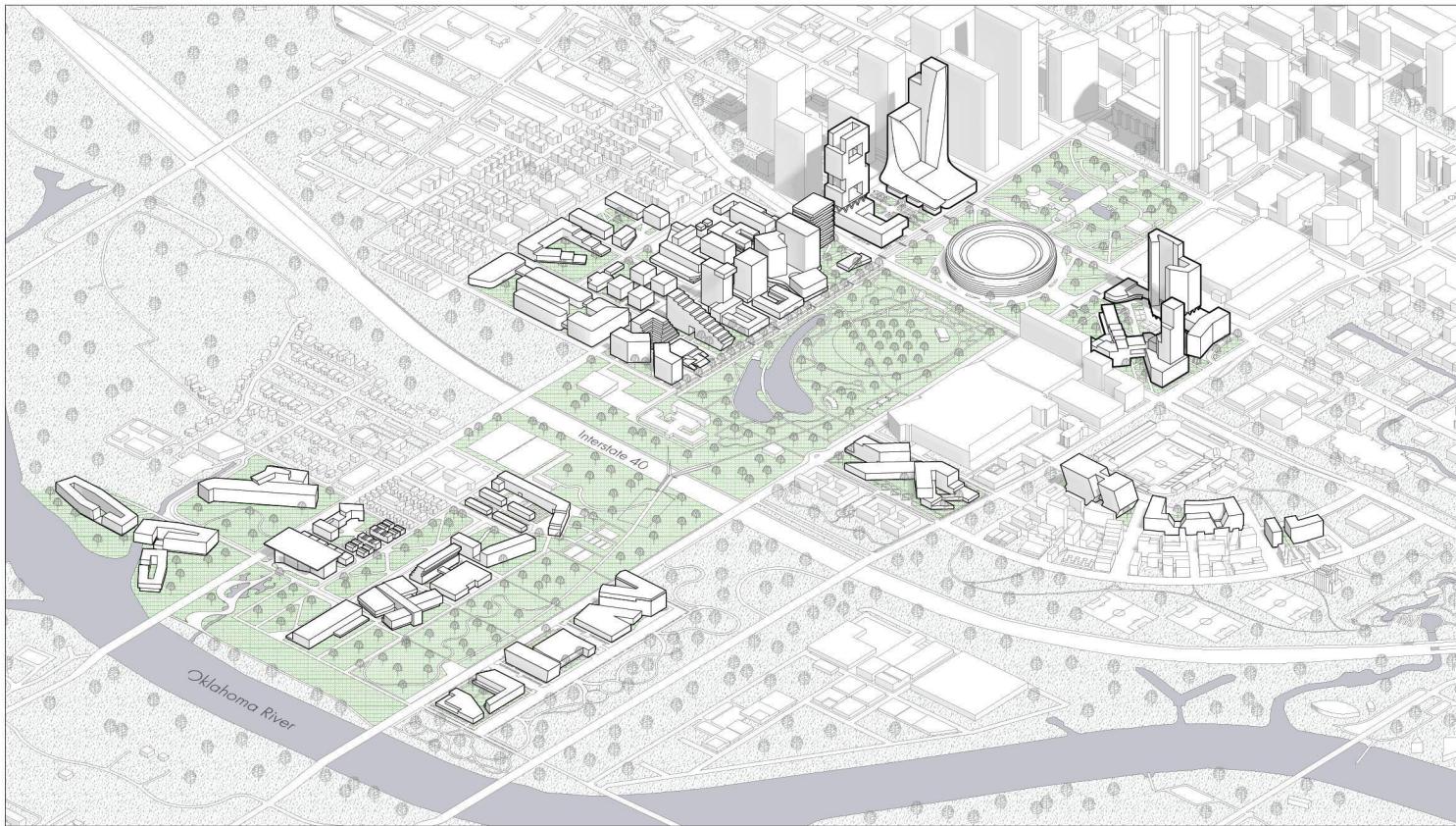


Using the existing site conditions of the Core-to-Shore plans, such as Scissortail Park, the Oklahoma River, and other existing public spaces, the proposed plan aims to create unique projects along a primary axis from downtown Oklahoma City to the Oklahoma River. The plan takes advantage of existing roads and abandoned plots to construct a new image for Oklahoma City that is both unique and inviting.

## PROPOSED ARENA DISTRICT



Arena District



Proposed Core-to-Shore Plan

## THE FUTURE OF ARENA DISTRICTS

### Existing Arena Districts



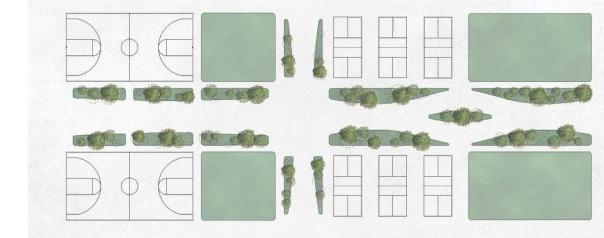
Jurassic Park, Toronto

Titletown, Green Bay

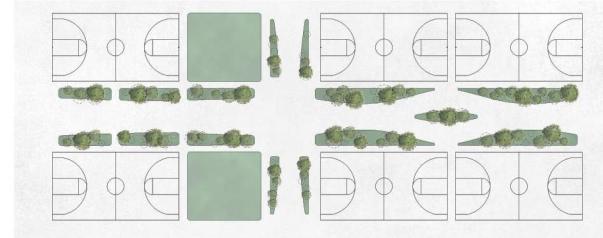
Deer District, Milwaukee

In today's urban plans for arena districts, designers aim to create a lively atmosphere that integrates into a major city's urban fabric. Predominantly, there are two typologies of urban planning in arena districts, large event plazas, and programmed activity spaces.

### Designing an Arena Super-block



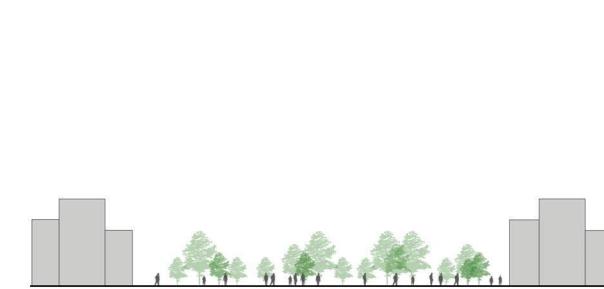
Nightlife Configuration



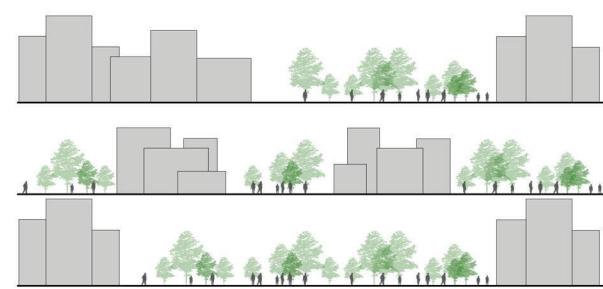
Competitive Configuration

Based on current arena districts, the arena super-block will combine those design ideas into one sizable, flexible space, allowing all arena district typologies to be present in one location. Two primary configurations are designed for this public space, a nightlife configuration, and a competitive configuration. Both layouts feature a permanent basketball court and green space to the east, while to the west, the space can be altered into pickleball courts, turf fields, or additional basketball courts. These two configurations integrate with the sports betting lounge and sports academy, flanking the space.

### Integration of Greenery

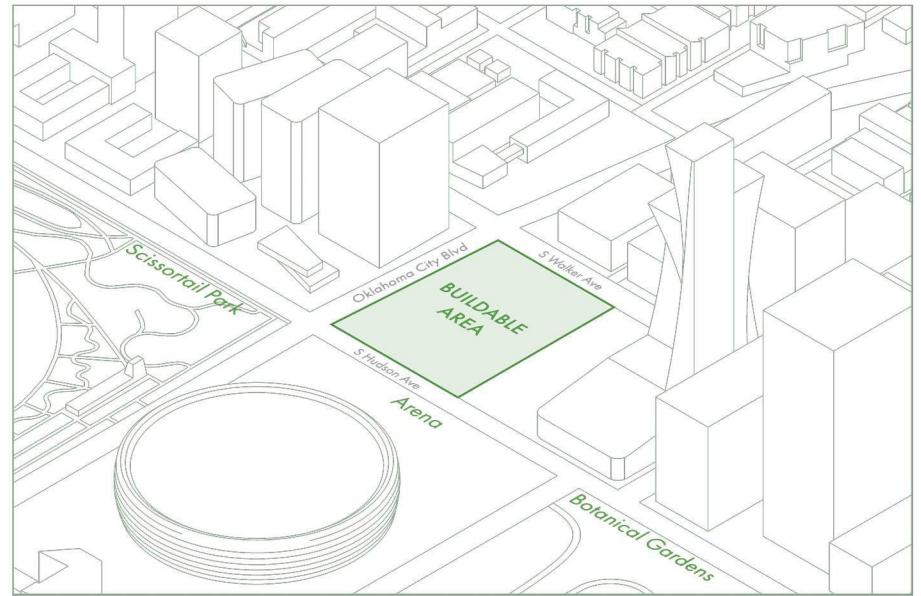


Horizontal Urban Forests



Vertical Urban Forests

The block's public spaces and mixed-use buildings will integrate horizontal and vertical forests to give the arena super-block a unique character and promote interaction with nature. This design will provide the public and residents of the apartment towers with a special connection with nature, promoting activity and solitude within the block.



## 01 Site + Context

The project is a mixed-use residential tower between Scissortail Park and the Myriad Botanical Gardens in downtown Oklahoma City. Situated across the street from a newly proposed arena for the NBA Oklahoma City Thunder, the project aims to create an arena district for the city.



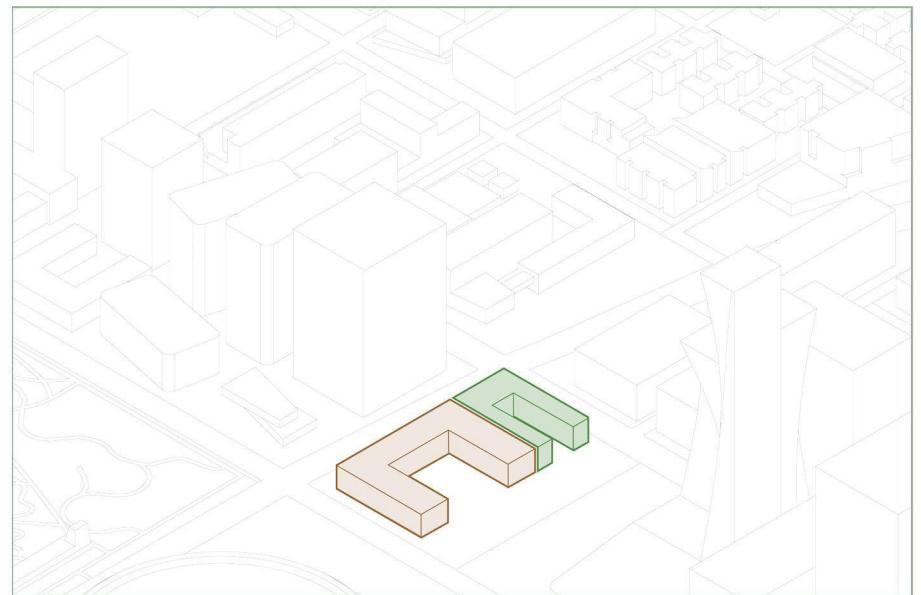
## 02 Programming Site

Within the building site, the project is split into two halves. The site's eastern section houses the project's hotel and sports betting lounge, while the western section provides space for a parking garage and residential tower.



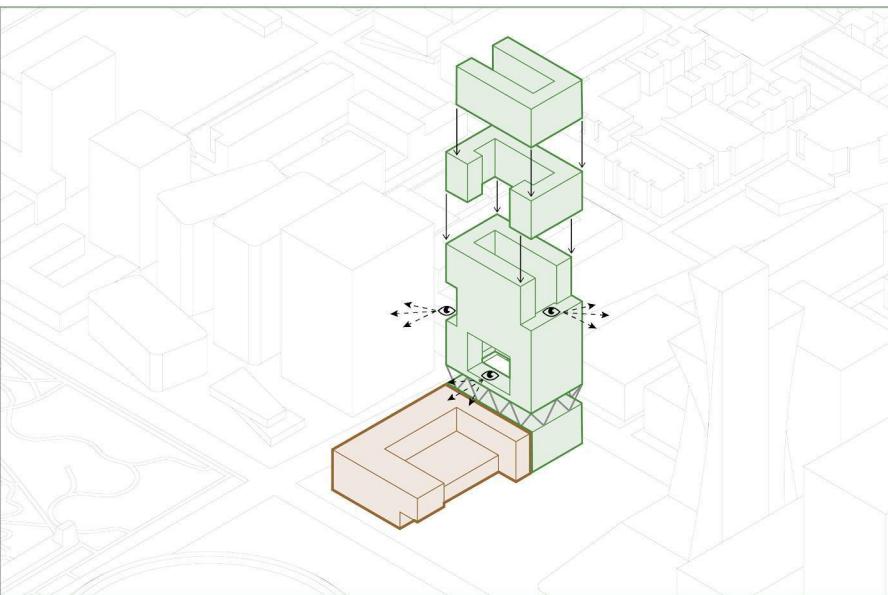
## 03 Axes

Axes within the site's context create organization within the site. An arena axis provides space to develop a unique arena district and a gathering axis for city residents and the project. A southern axis provides a split between the project's programmatic space.



## 04 Establishing a Module

As a primary step in the project's form, a half court module is formed, which will be used in both the hotel and residential tower. The module allows the form to embrace the gathering axis, sun angles, and views of the surrounding context.



## 05 Stacking Modules/ Creating Terraces

Stacking the half-court modules creates terraces for the residents and guests. In the residential tower, the module is rotated to allow for views of Scissortail Park, the arena, the Myriad Botanical Gardens, and downtown Oklahoma City.



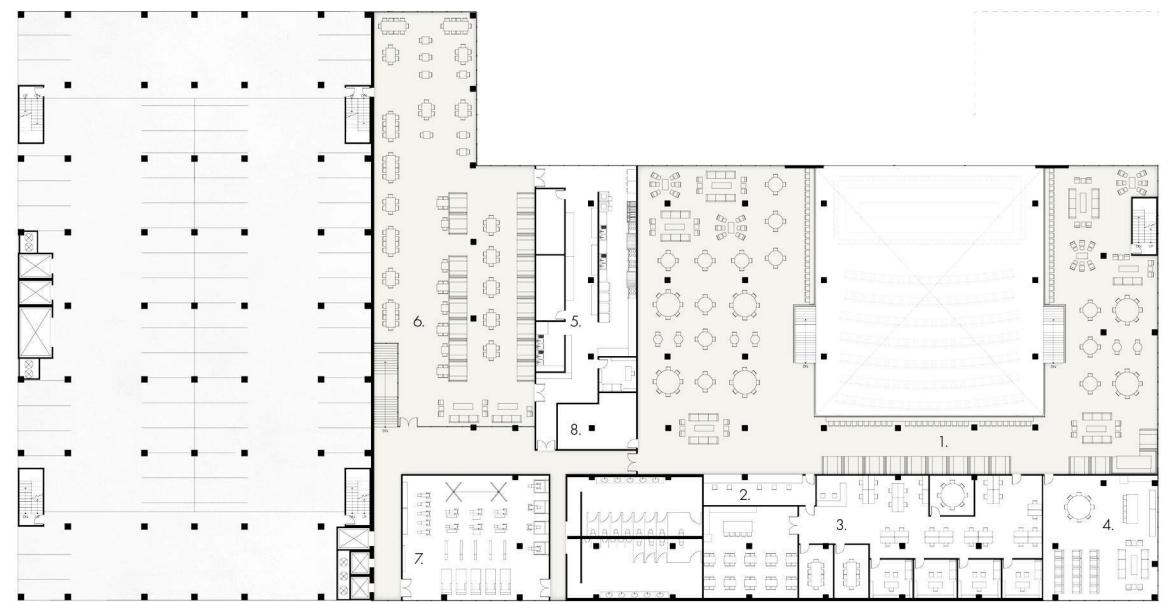
## 06 Terraced Forests/ Arena Landscape

Within the modulated terraces of the residential tower and the hotel roof, vertical forests are created in a dense arena district. Additionally, landscaping and activity space is created between this project and a project to the north, creating a unique arena district.



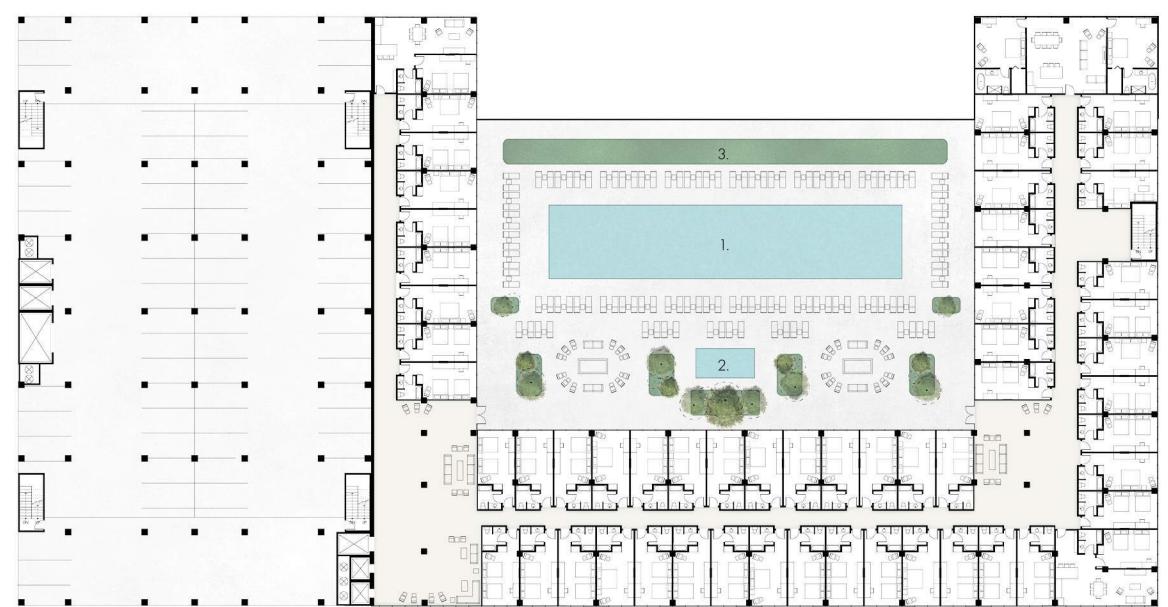
**Ground Floor** 0'-0"

1	Sports Betting Lounge	6	Hotel Offices	11	Loading Dock
2	Kitchen	7	Lobby Bar	12	Residential Lobby
3	Bookies	8	Storage		
4	Offices	9	Trash		
5	Hotel Lobby	10	Mechanical		



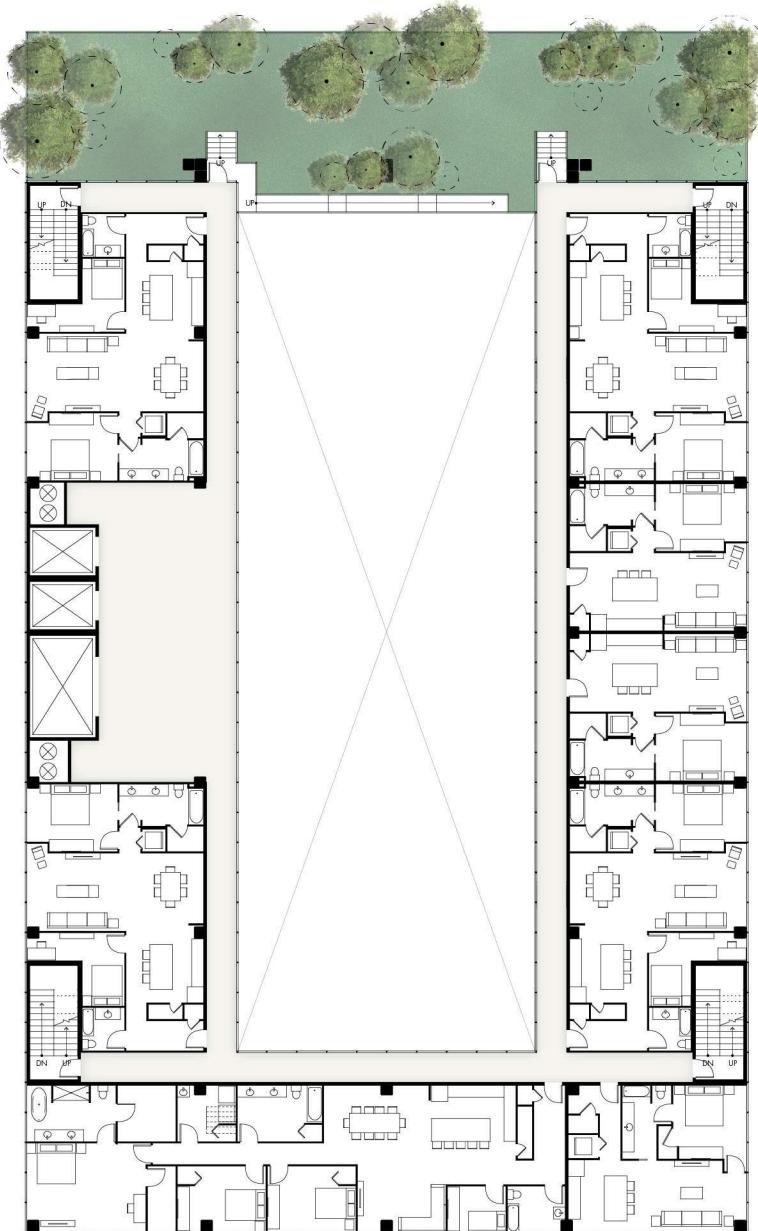
**2nd Floor** 15'-0"

1	Sports Betting Lounge	6	Restaurant
2	Bookies	7	Hotel Gym
3	Offices	8	Storage
4	Private Lounge		
5	Kitchen		



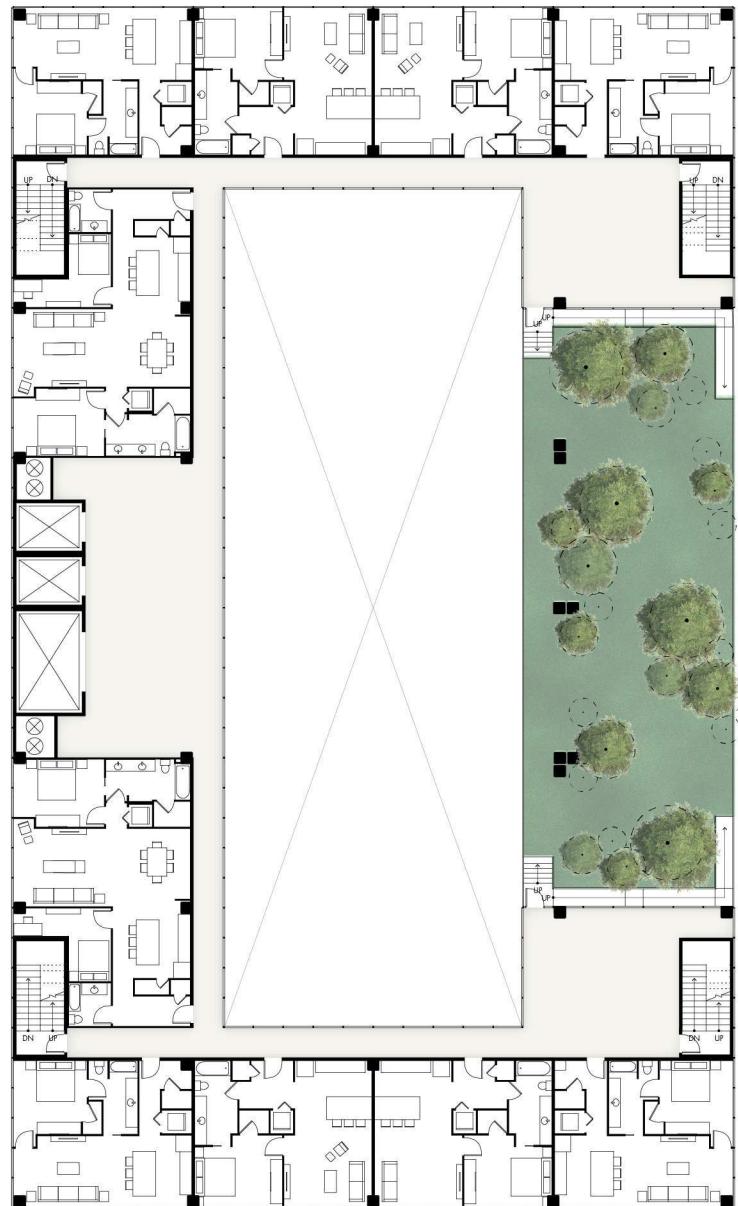
**Hotel Floor (4)** 30'-0" - 69'-0"

1	Pool	Singles	count: 15	Double Suite	count: 2
2	Hot Tub	Doubles	count: 38	Dual Single Suite	count: 1
3	Turf Lawn				



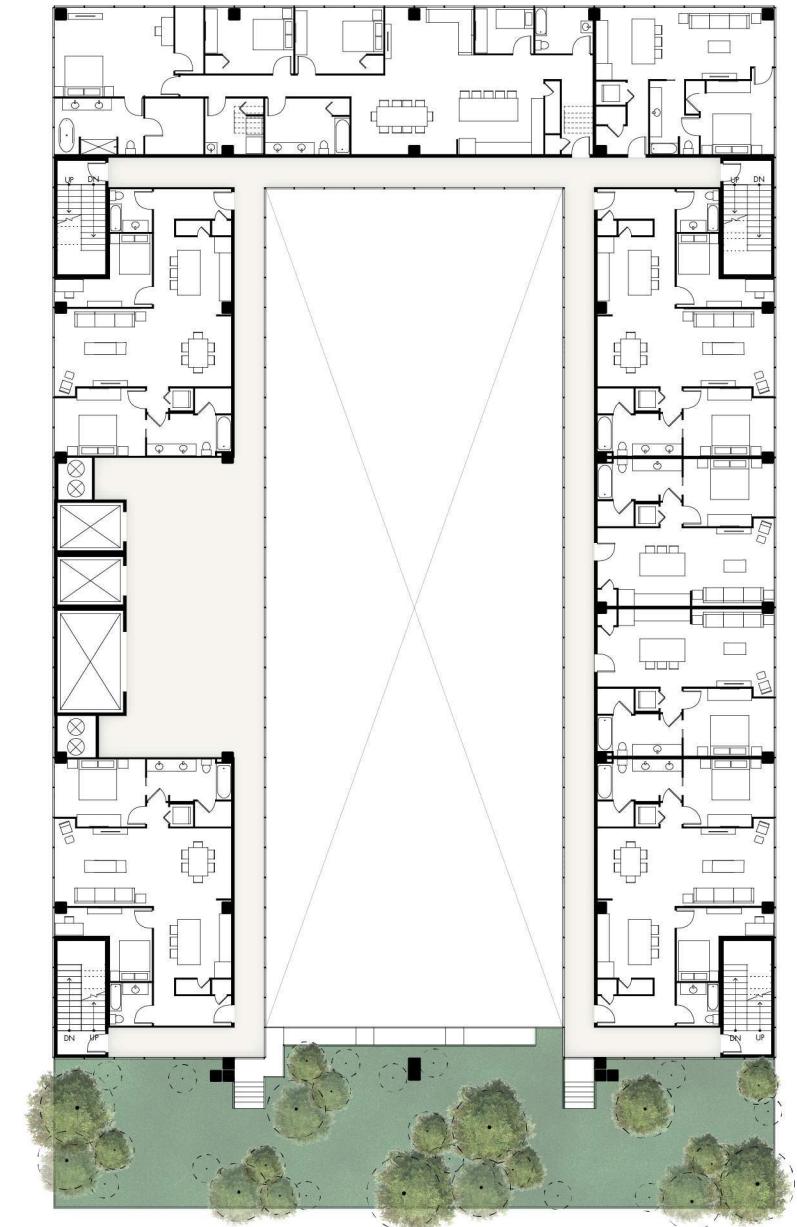
Residential Floor North (6) 290'0" - 355'0"

Singles count: 3  
Doubles count: 4  
Quads count: 1



Residential Floor East (12) 134'0" - 199'0", 368'0" - 433'0"

Singles count: 8  
Doubles count: 2



Residential Floor South (11) 212'0" - 277'0", 446'0" - 498'0"

Singles count: 3  
Doubles count: 4  
Quads count: 1



47



Sportsbook Lounge



Residential Terrace

48



08

## The Psychedelic Movement Museum

**Location:** Portland, Oregon

**Completion Date:** December 2021

**Project Team:** Ethan Overland

**Professor:** Dr. Kapila D. Silva

**Use Type:** Museum

(Rhino, Grasshopper, AutoCAD, Lumion, Photoshop, Illustrator)

The Psychedelic Movement, which began in the mid-1960s, had an effect on music and many aspects of popular culture. One of the center points of the psychedelic movement was the experimentation and exploration of psychedelic drugs such as LSD, psilocybin mushrooms, MDMA, DMT, and Ketamine. This exploration into psychoactive drugs allowed for new individual human experiences called the psychedelic experience. A psychedelic experience is characterized by the striking perception of aspects of one's mind which was previously unknown and intangible. The Psychedelic Movement Museum aims at embodying a similar journey to one explored in a psychedelic experience, providing visitors a new and unique museum experience.

Within the Psychedelic Movement Museum, guests experience a vertical ascension via central circulation elements, providing access to visual exhibits as well as contemporary exhibits such as the art, hippie, clothing, and music exhibits. This vertical ascension through the museum embodies the experience of rising to a higher consciousness while on psychoactive drugs popular during the psychedelic movement. At the climax of the museum's ascension are the Celestial Womb and Divine Consciousness exhibits. These exhibits represent an experience that one would receive on the most intense psychedelic experience, manifested in the form of a projected universe in the Celestial Womb and a stark white cube, symbolizing a higher universal power in the Divine Consciousness exhibit.

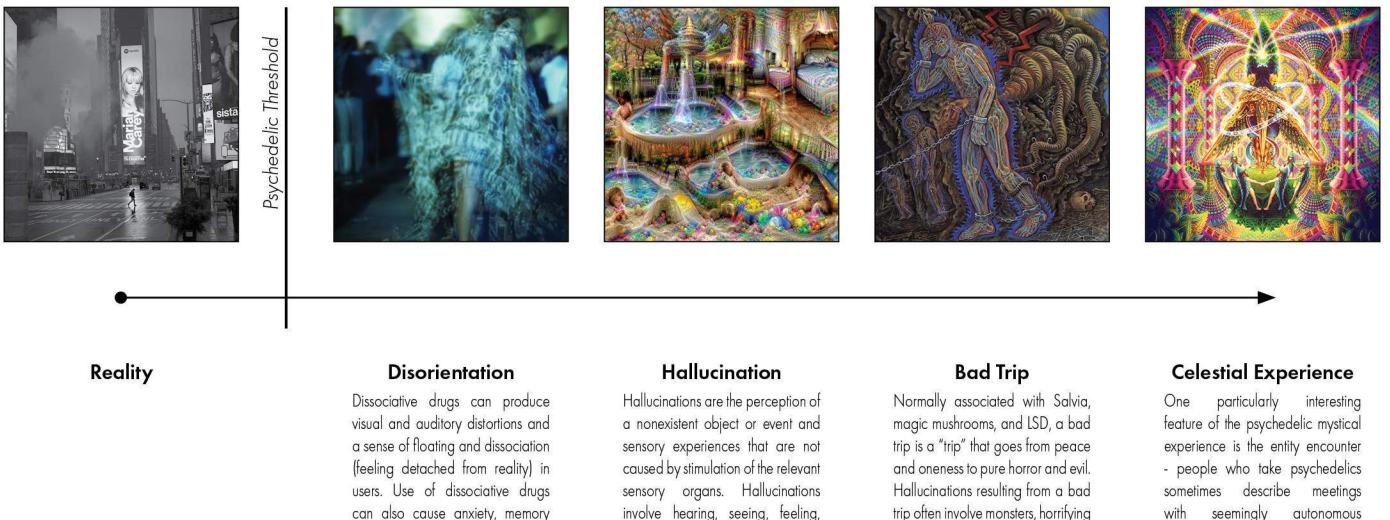
# HISTORY

## Psychedelics: A National Impact



# THE PSYCHEDELIC EXPERIENCE

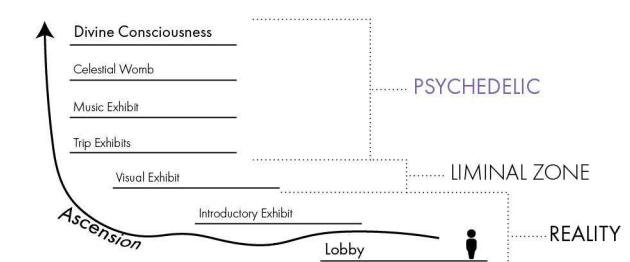
## Progression of Possible Experiences



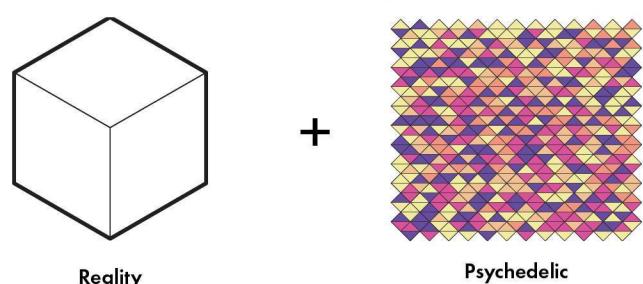
## Why do People want these Experiences?

Hallucinogens' effects vary slightly from substance to substance. However, most of them cause a combination of sensory distortion, altered thinking patterns, and heightened emotions. These drugs can temporarily transport an individual to another level of consciousness. For this reason, taking hallucinogens is often referred to as a 'trip.' Although tripping can be intense and sometimes overwhelming, many people enjoy the experience. Others may not relish the effects of hallucinogens but endure them for their spiritual or therapeutic impact.

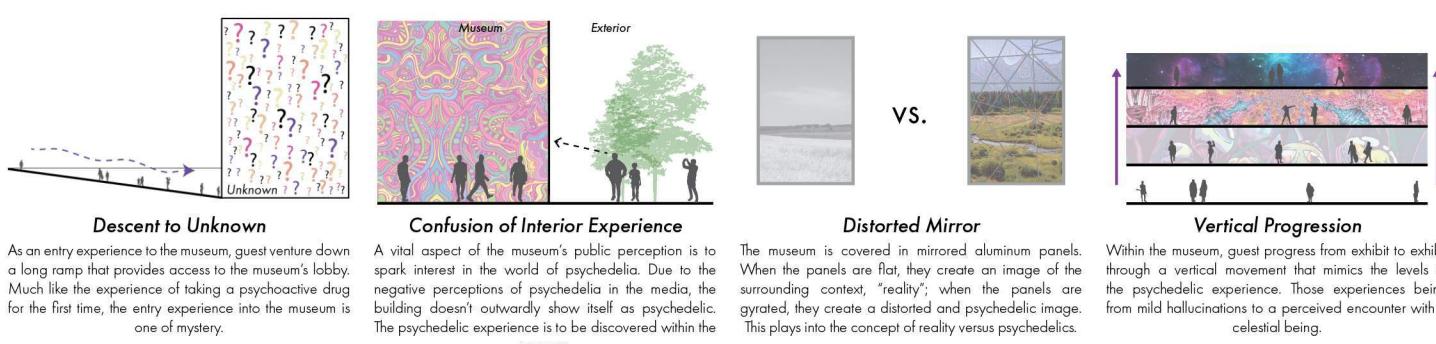
## Ascension of Exhibits

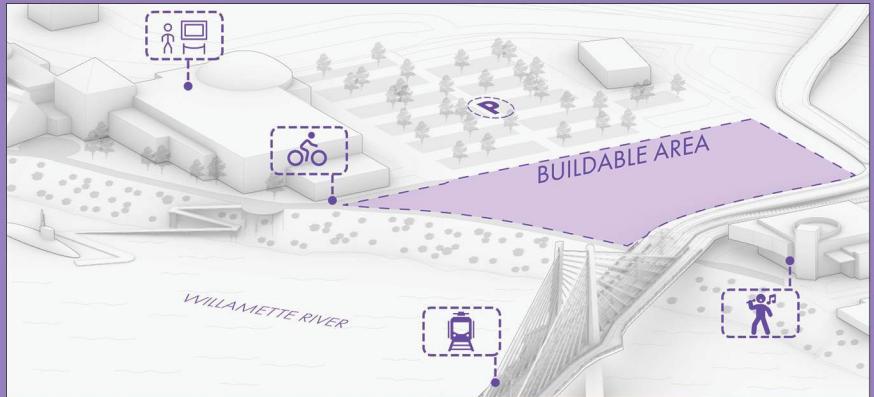


## Form Reflects Experience



## Simulating the Experience

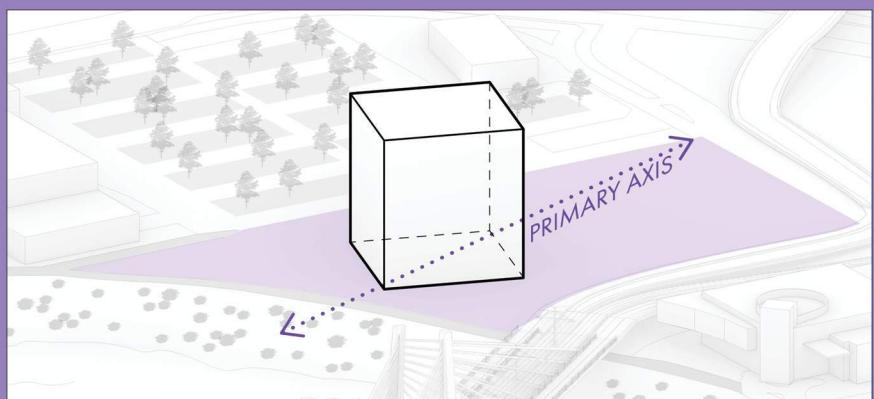




## 01 Site + Context

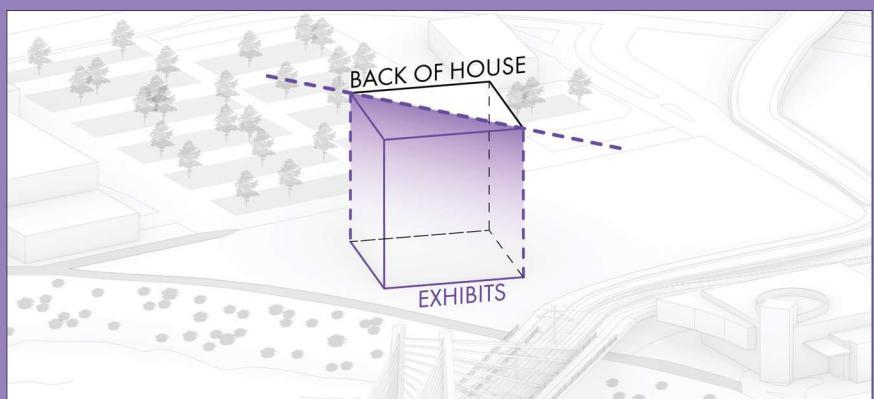
The project is a museum located in East Portland along the Willamette River. The museum will improve the Willamette Riverfront and interact with the East-bank Esplanade path, which runs along the eastern side of the river.

 Oregon Museum of Science and Industry  
 Tilikum Light Rail River Crossing  
 East-bank Esplanade Path  
 The Hampton Opera Center



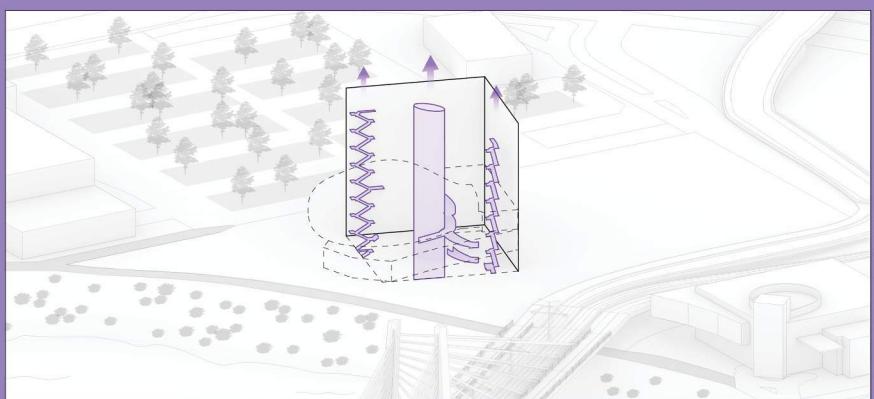
## 02 Orientation

The primary axis of the museum is orientated to provide access to the site from the nearby light rail station and a parking lot. Additionally, the axis is angled towards the Willamette River to interact with the river and the museum. Corners of a cube are placed on this axis.



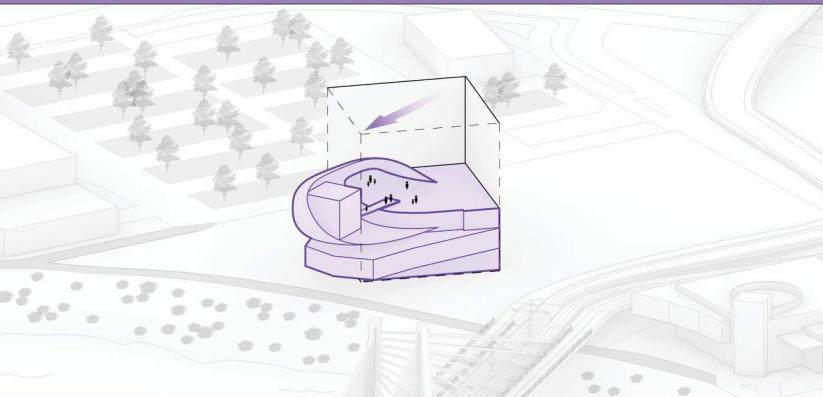
## 03 Liminal Line/ Programming

The liminal line separates the cube into the psychedelic and reality portions of the museum, the liminal line acting as the transition between both zones. The Psychedelic section houses the museum's exhibits, and the reality section contains the museum back of house services.



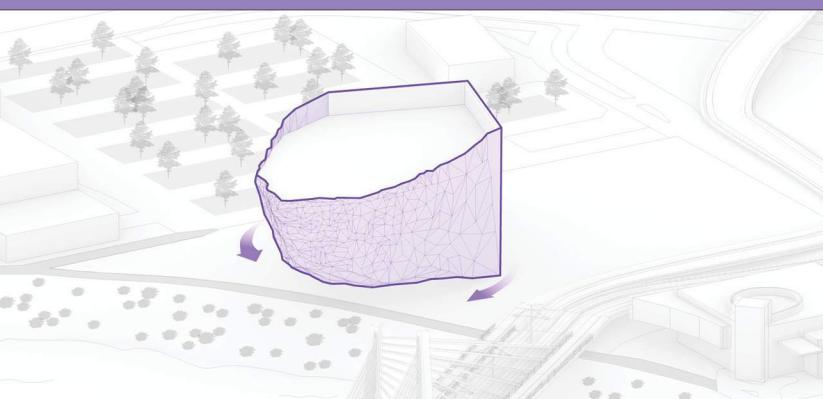
## 04 Liminal Line/ Circulation

Along the liminal line, the museum's vertical circulation elements are placed. This physically represents the liminal line and emphasizes the transition between reality and the psychedelic sections of the museum.



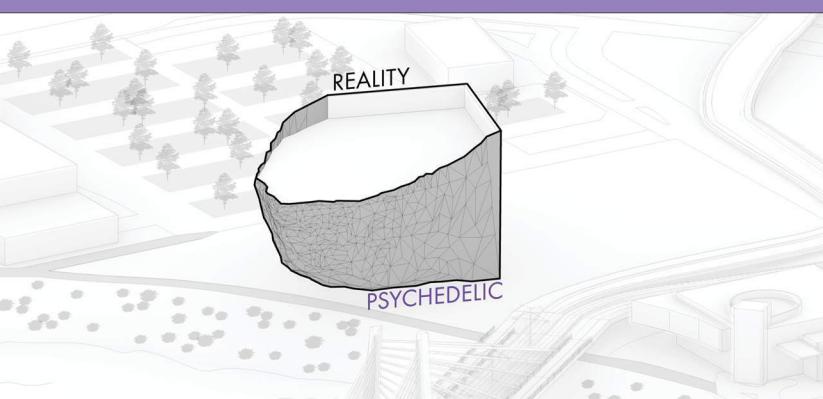
## 05 Journey

From the liminal line, the museum exhibits formed. The exhibits are stacked to provide vertical ascension within the museum; exhibits extended to create a protrusion into the riverfront.



## 06 Warp + Wrap

Exhibits are warped around with a polygonal warp that extends from the back end of the cube. This hides the exhibits within the museum and instills curiosity into pedestrians as to what the museum contains.



## 07 Materiality

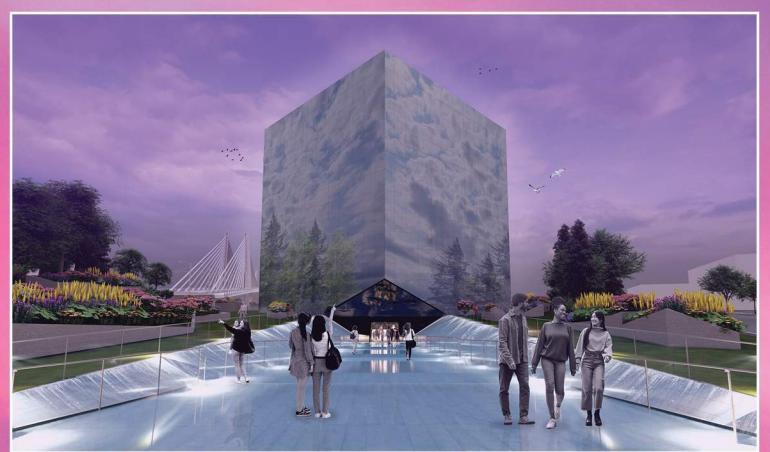
Clad on the polygonal warping of the museum are anodized aluminum mirrored panels. On the reality side of the liminal line, the surrounding built environment is reflected accurately on the panels, while on the psychedelic side of the liminal line, the polygonal warping creates a distorted reflection of the built environment.



## 08 Public Interaction

The museum's roof is activated and designed to be a multi-use event space for events such as concerts or private parties. The museum's surrounding site is improved to feature planters, hills with trees to act as a noise barrier, and an expansion of the East-bank Esplanade to give pedestrians a view of the museum.

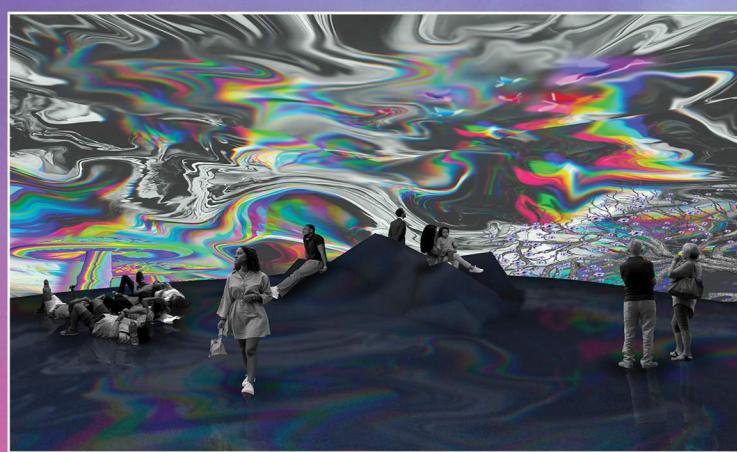




① Entry Ramp



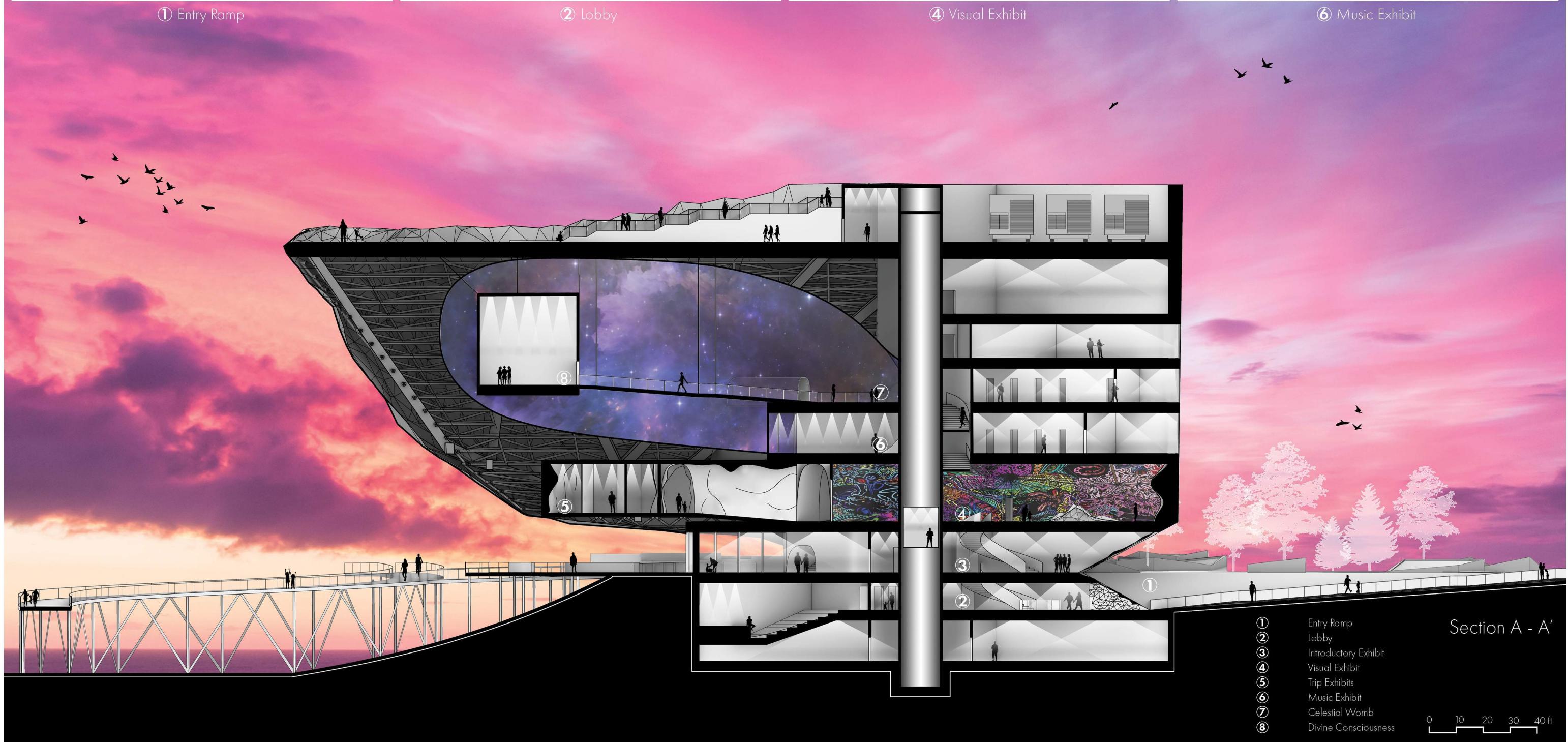
② Lobby



④ Visual Exhibit

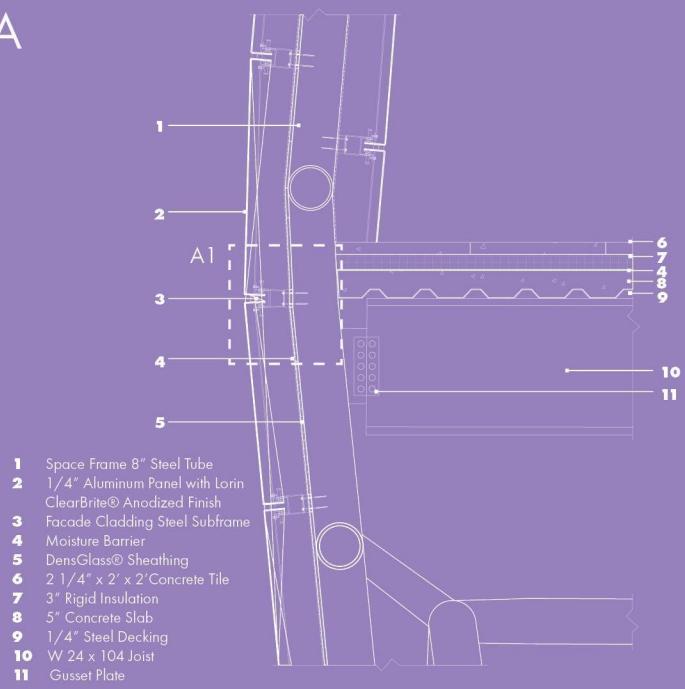


⑥ Music Exhibit

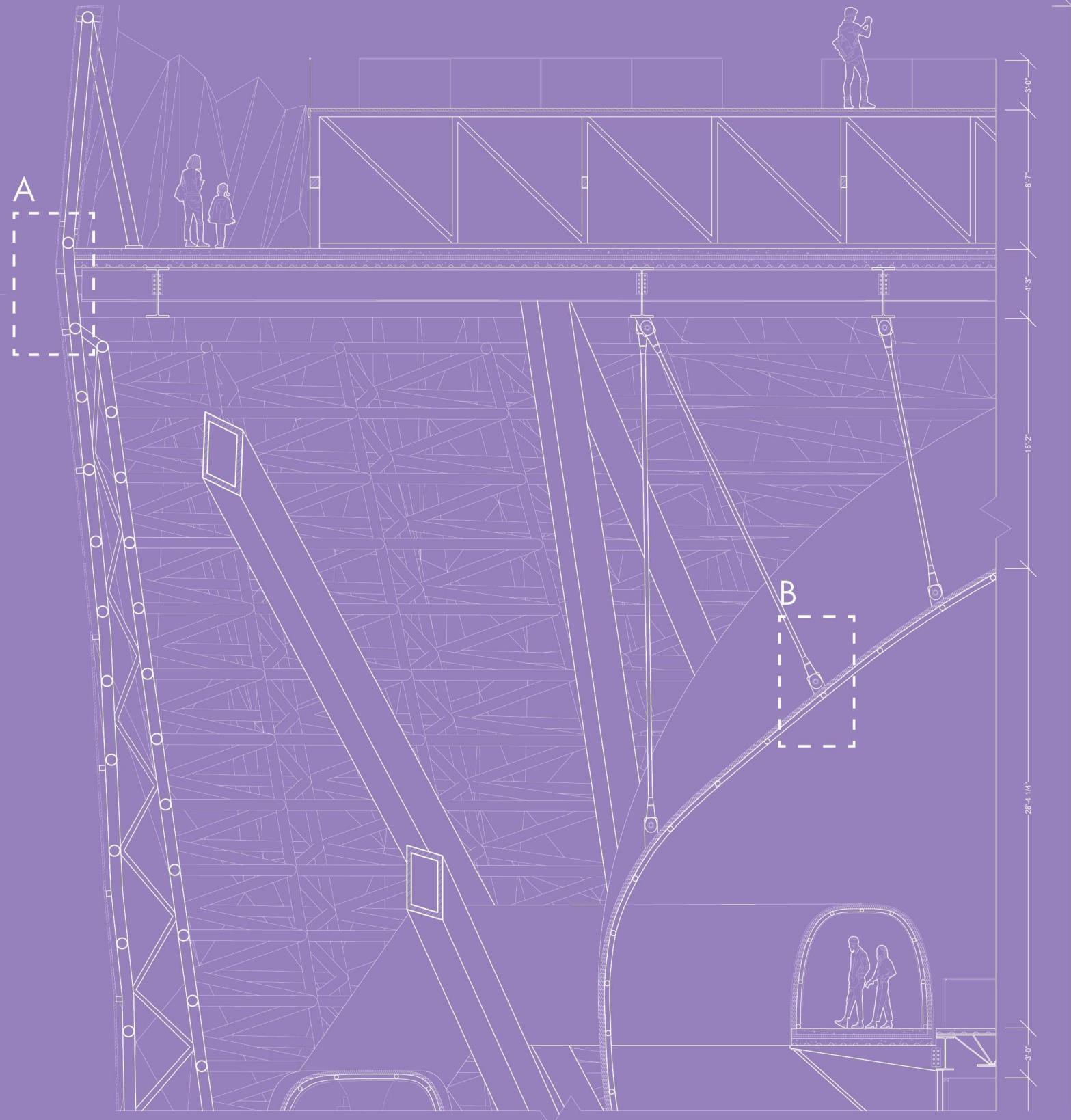
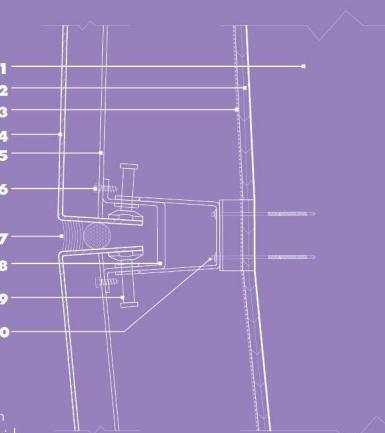


## Wall Section Southwest

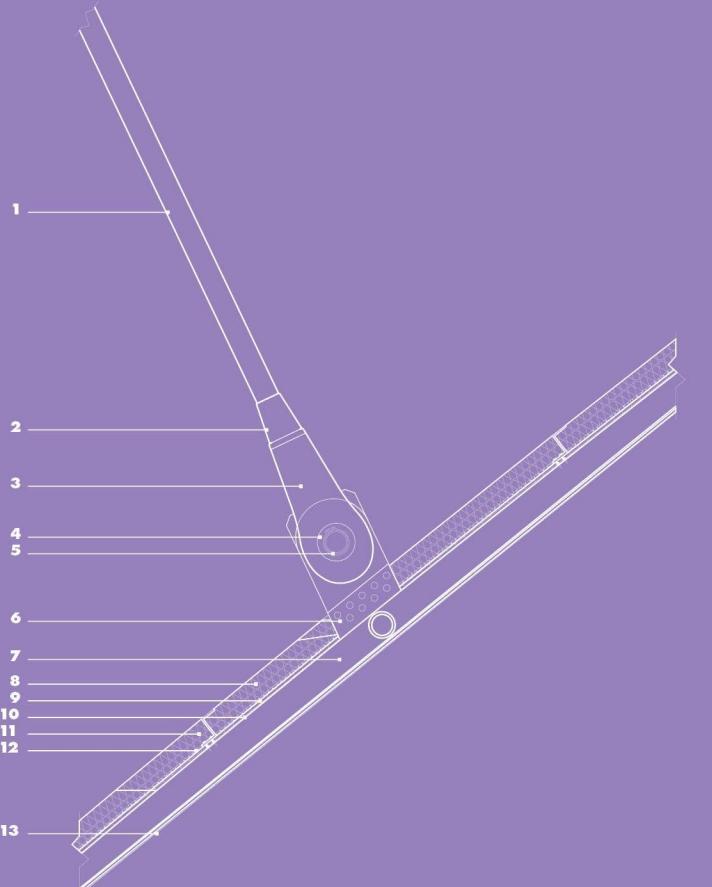
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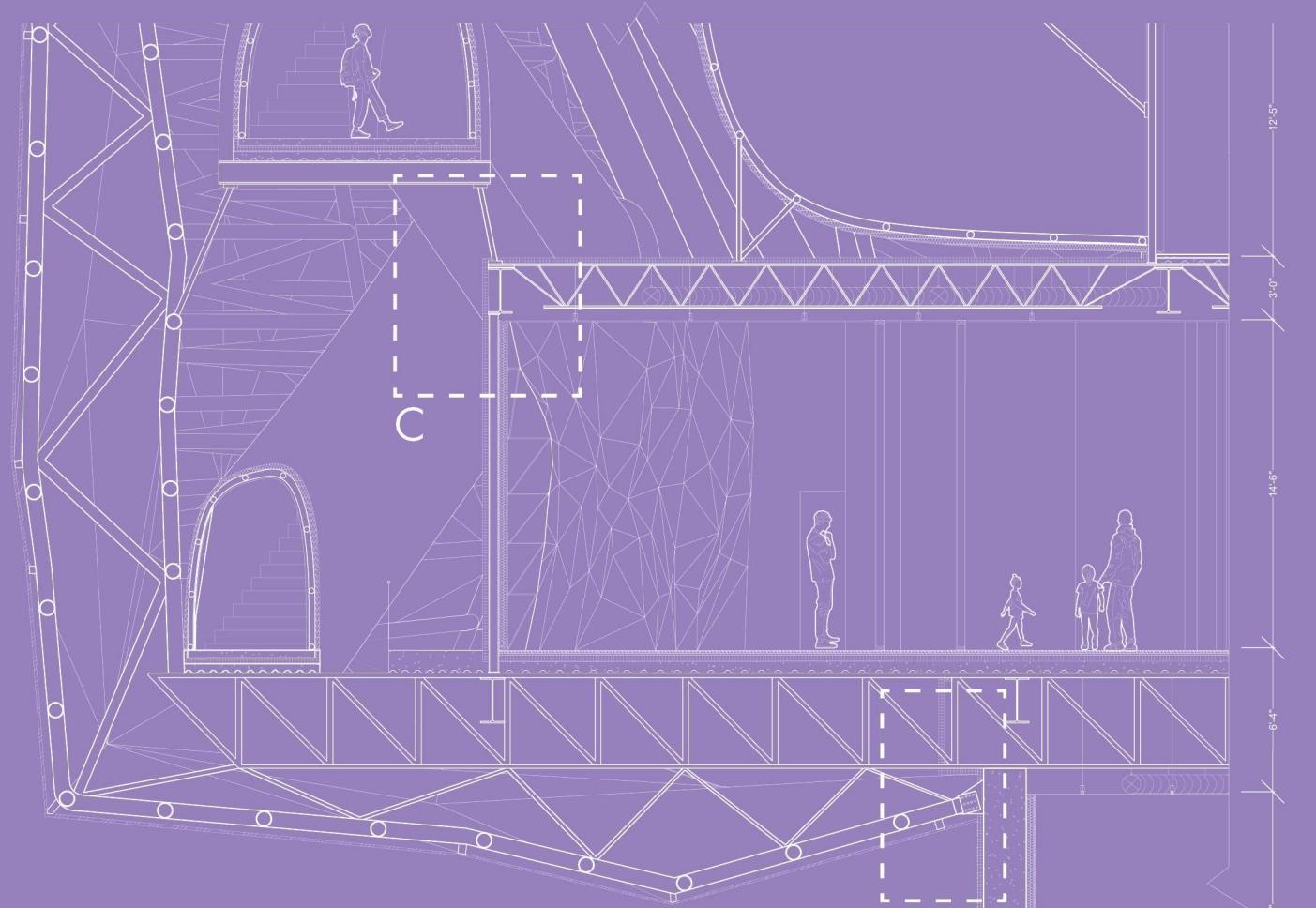
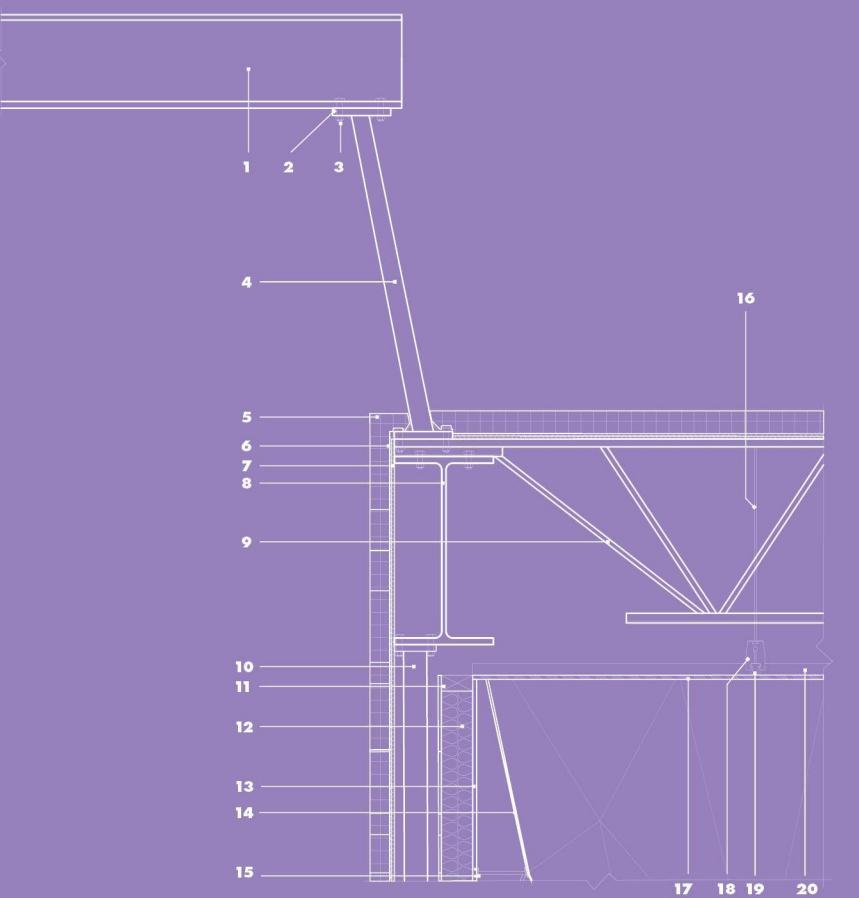
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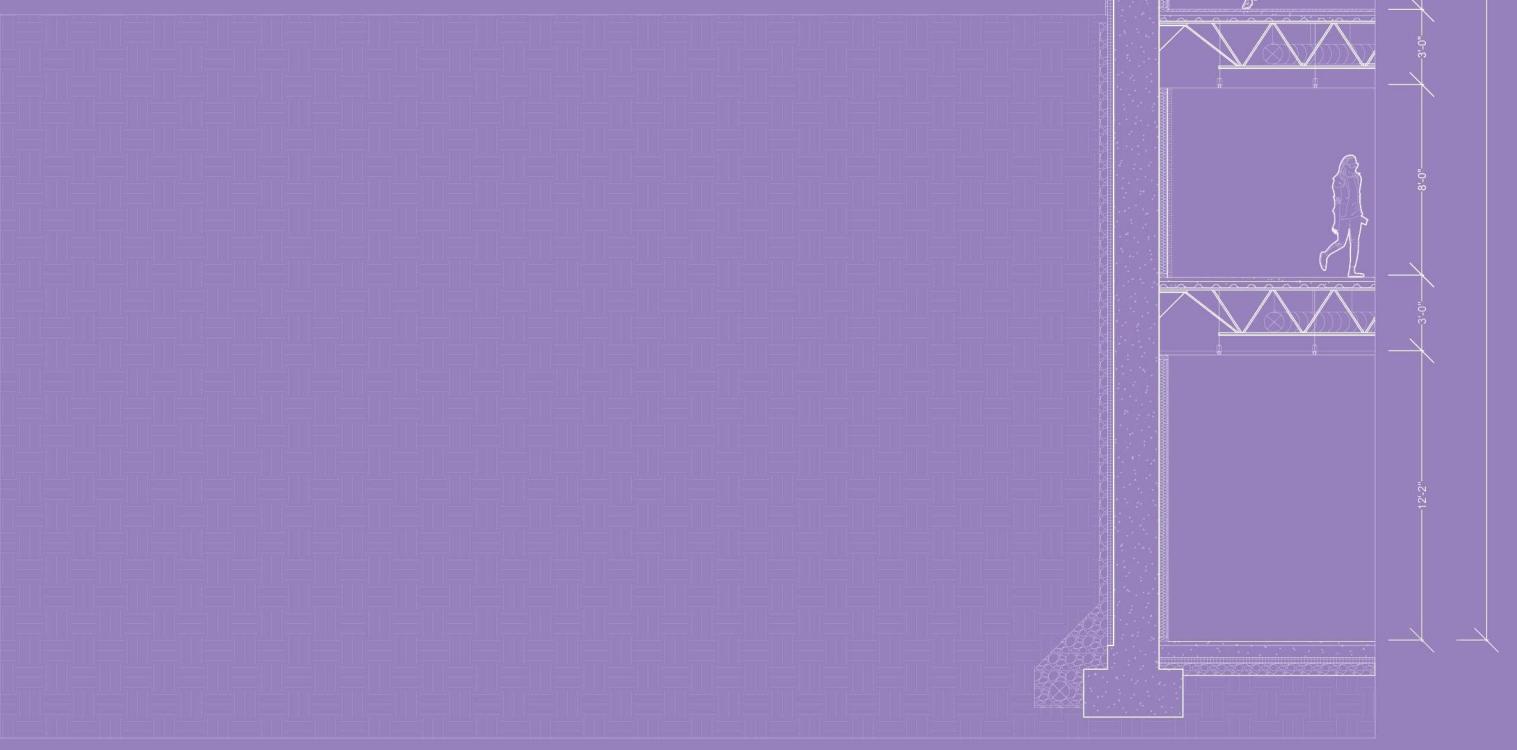
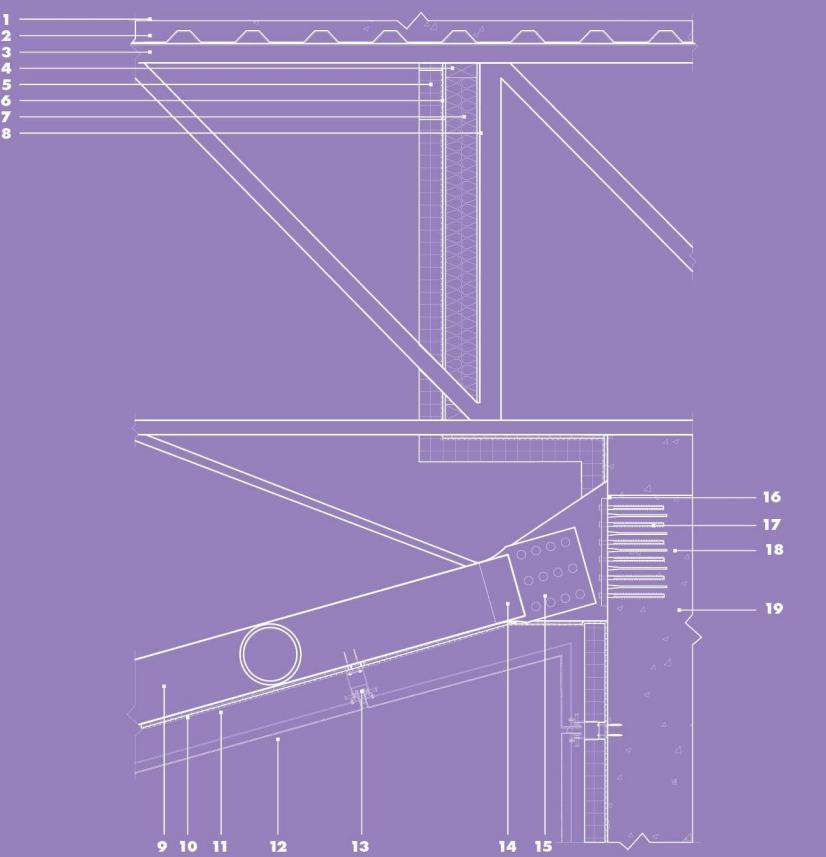
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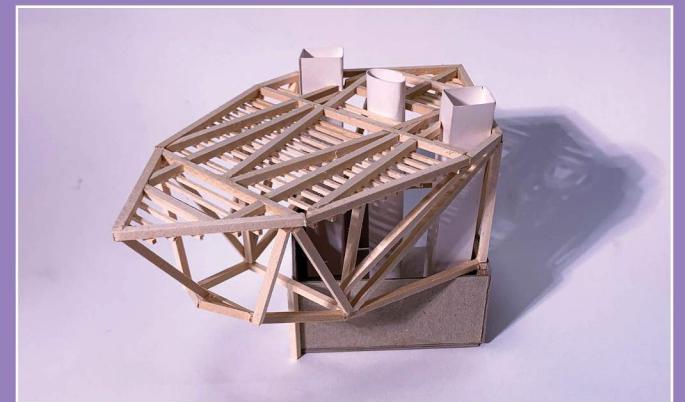
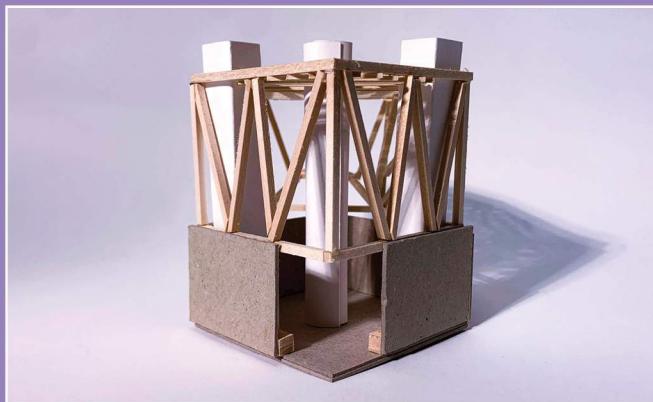
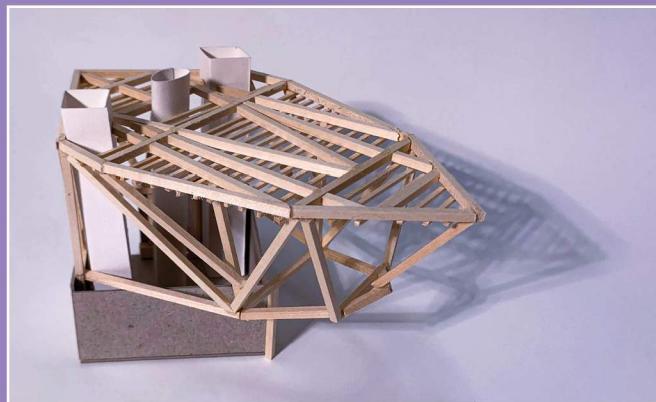
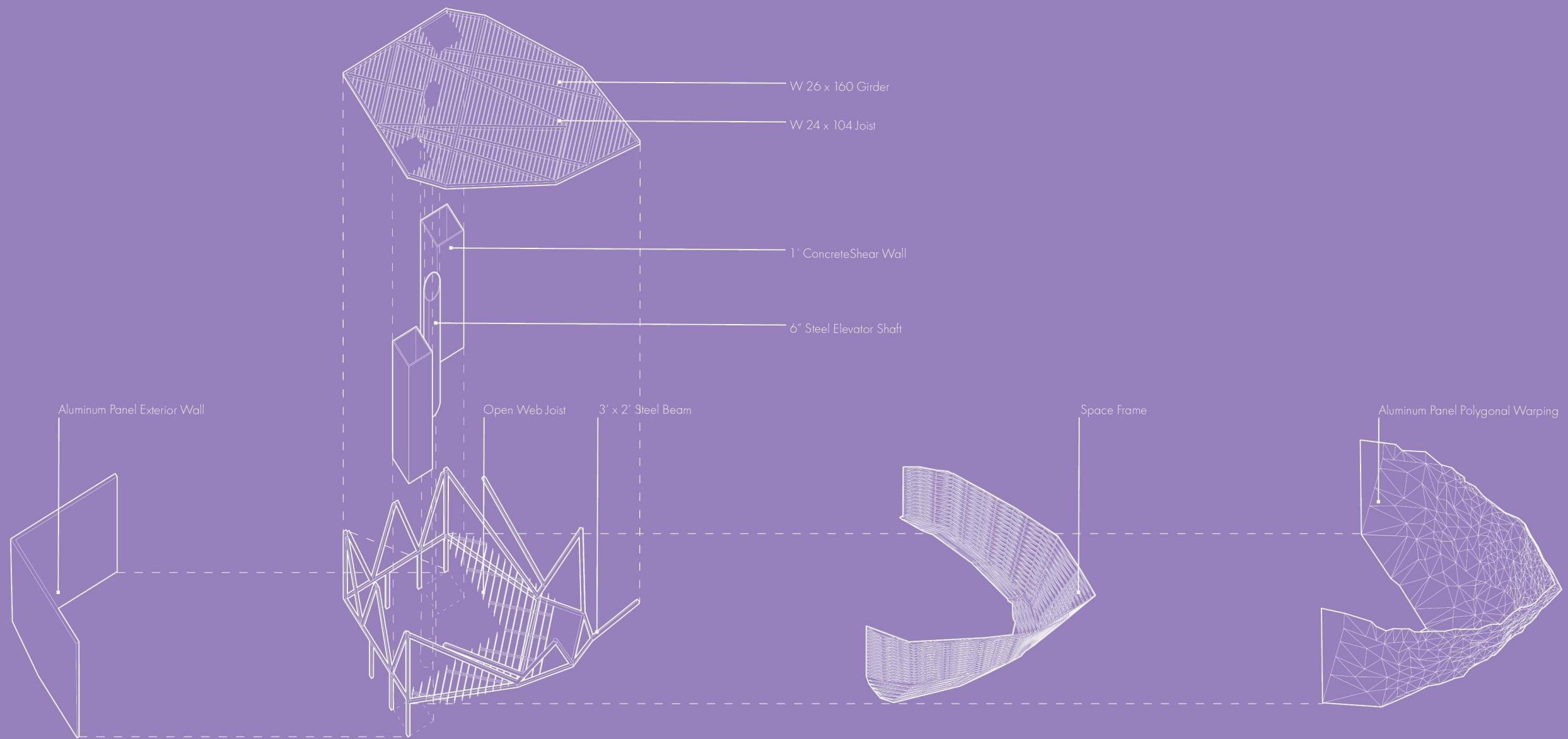


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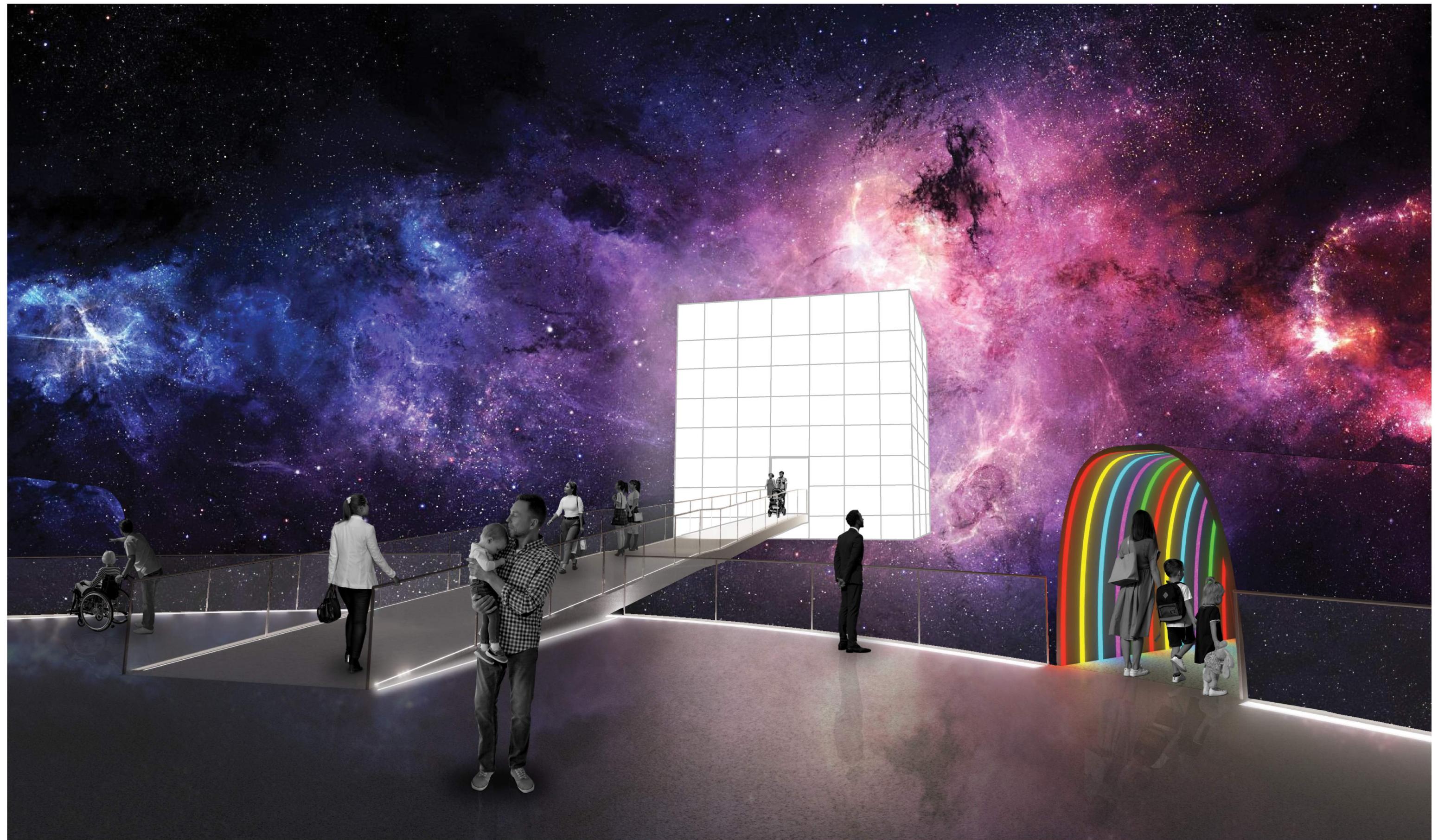
D





Rigid Structure Model

Built to 1/32" = 1' 0"



Celestial Womb + Divine Consciousness Exhibits

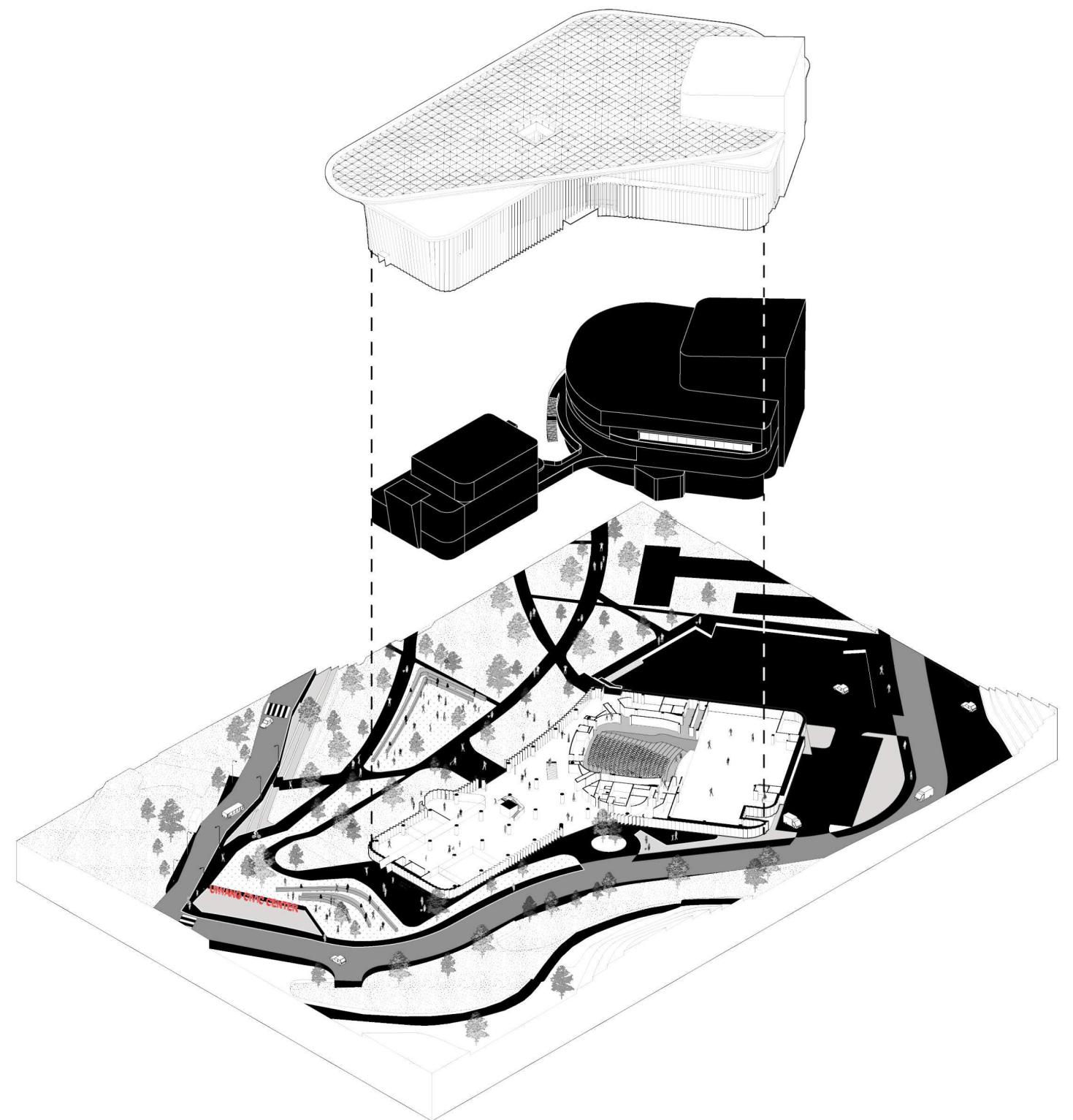
# Internship Abroad Works



Pyeongtaek Children's Experience Center | Pyeongtaek-si, South Korea  
Haenglim Architects | Seoul, South Korea | Summer 2022

## Competition: Winning Entry

The Children's Experience Center is a revolutionary children's museum that blends cutting-edge technology with hands-on learning experiences, inspiring curiosity and creativity while fostering a deeper connection to the world and nature around them. The museum's design features a circular form with an inner courtyard that provides an interchange of space between the exhibits, while also fostering a seamless connection to the surrounding natural environment and the nearby park. As part of this studio, I played a pivotal role in shaping the museum's conceptual framework, contributing to the development of its architectural language through a series of form studies and concept research. Additionally, I was involved in designing the exterior perforated screen facade, a key feature that balances aesthetics, functionality, and environmental considerations, strengthening the museum's connection to both its surroundings and its innovative educational mission.



Uiwang Civic Center | Uiwang-si, South Korea  
Haenglim Architects | Seoul, South Korea | Summer 2022

## Competition: Winning Entry

The design for the new Civic Center in Uiwang-si, South Korea, incorporates two primary theaters, a series of gallery spaces, a café, and various supporting facilities. The center's striking dynamic louvered facade, coupled with a parametric light-filtering roof structure, harmonizes with the thoughtful site planning to establish a distinctive and inviting gathering space for the citizens of Uiwang. Although I joined the project midway through the concept design phase, I played a pivotal role in shaping and refining the final drawings and visual representations submitted for the competition, ensuring a cohesive and compelling presentation of the design vision.



# Ethan Overland

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