

PATEL

los angeles

COLLECTION OF WORKS

2019-2023 ARCHITECTURAL ACADEMIC



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NEHAL PATEL

ARCHITECTURAL DESIGNER

Nehal Patel is a recent graduate from Southern California Institute of Architecture, Los Angeles. During her masters education she advanced her creative design thinking by exploring the realms of Generative design tools to design intricately detailed forms that addresses ecological and climate concious narratives. With her experience in diverse range of studio projects and Applied studies seminars, she developed steller understanding of innovative design thinking and its implementation techniques, by 3D modeling details along with fabrication methodologies, nurturing more pragmatic approach towards complex, radical and imaginative concepts. She is passionate about adding progressive values into architectural realms making future solutions thoughtful, functional, and beautiful.

Before joining SCI-Arc, her experience as a design intern and as a participator in various workshops, helped her understand the pragmatic aspects of a design, and further developed her interest in utilizing design technologies for field applications. Her professional experience involves conceptual design, working sets of construction drawings of an interior and building scale sites, client meetings, and design pitch presentations.

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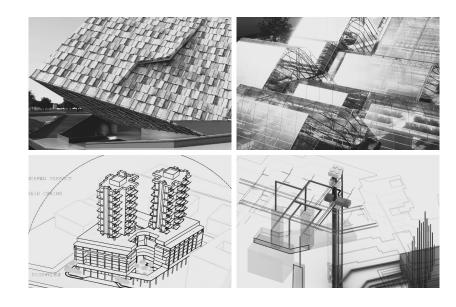
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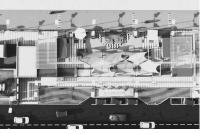
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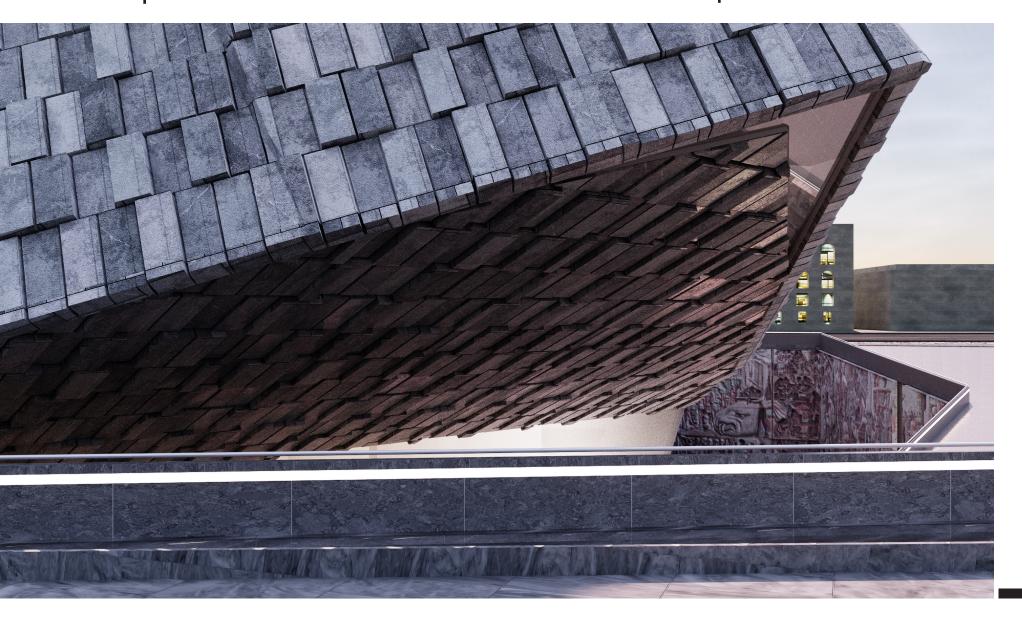
3GBX **01**

VERTICAL STUDIO II
Instructor: Marcelo Spina
2023

THE NATIONAL MUSUM OF AMERICAN LATINO

CHARACTER X

Team: Linhao Zhou



BRIEF: In sync with the considerable social and cultural processes taking place in America and the world at large, the studio aims to explore and question the role of Cultural Identity in today's architectural environment. Cultural Identity is used to describe an individual, for instance, an Architect, or an Artist, while it also applies to a particular though loosely defined collective such as the LatinX Community in America. Specifically, the studio aims to explore [mute and socially engaged] forms of monumentality supporting the construction, manifestation and evolution of a particular cultural identity: that of the American-Latino Community.

CONCEPT: The museum's design embodies a monolithic scale and materiality that brings significant contributions of Latino styles to the predominantly neoclassical heritage and political structure of the Americas. The structure utilizes limestone as a primary facade material. **Limestone** played an important role in Latino history as it was a key building material for many ancient Mesoamerican civilizations, and added on by the **art forms like murals and vibrant colors**, that evolved into its own unique style. The museum is crafted to create a welcoming and engaging environment with its diverse exhibition spaces, galleries, and theatres that can **foster discussions** on **cultural transformations** and **community identity** within America's current sociopolitical and cultural landscape.

Rhino, Grasshopper, Cinema4D, Octane Render, Adobe After Effects

The Latin American heritage is characterized by its diversity and uniqueness, resulting from the fusion of various cultures. It has been shaped over centuries of migration, colonialism, and the intermingling of peoples from different world regions. The Latin community in America has been through so many complicated political and social reforms.







Phenomenon of Migration

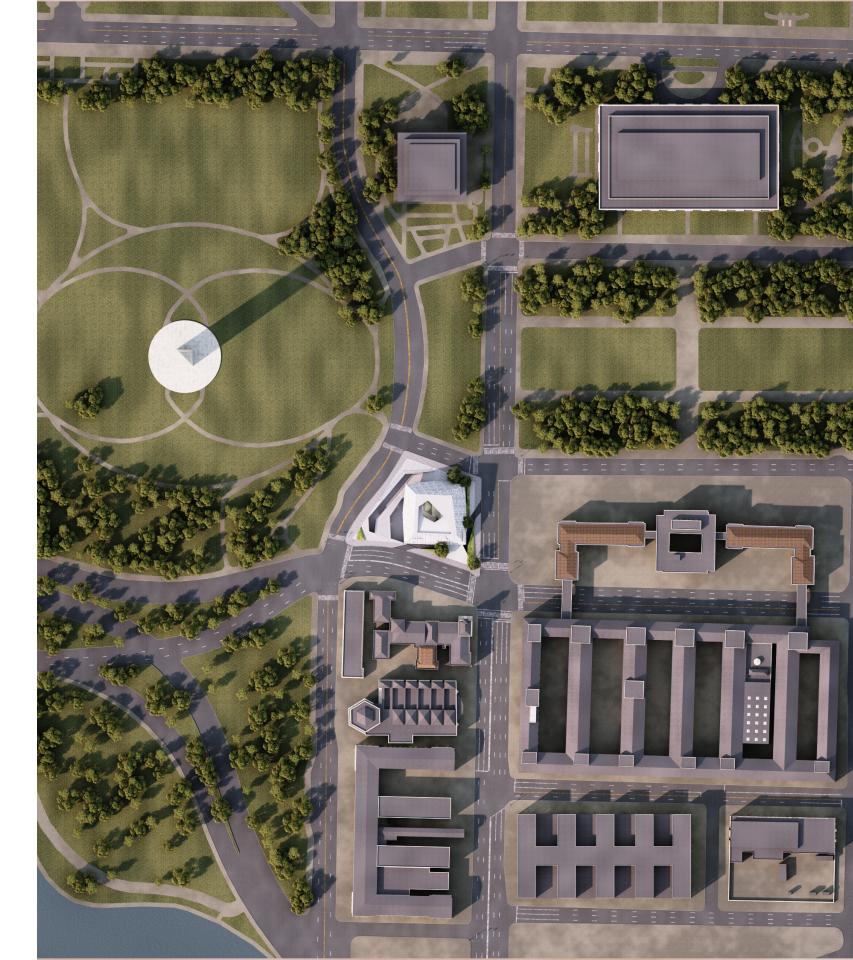
Cultural Identity in USA

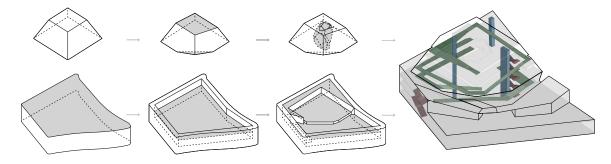




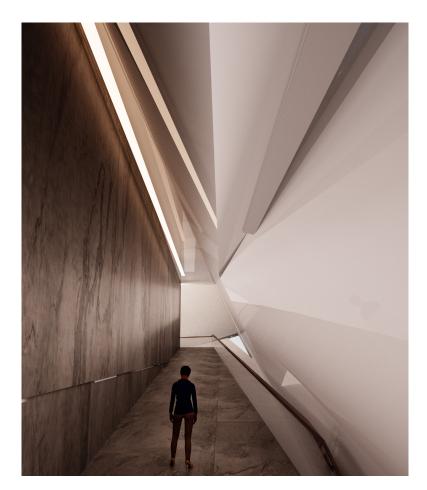


This museum becomes a mirror and a stage to showcase all the just and the unjust faced and overcome by the Latino Community that makes up 20% of the total united states population.

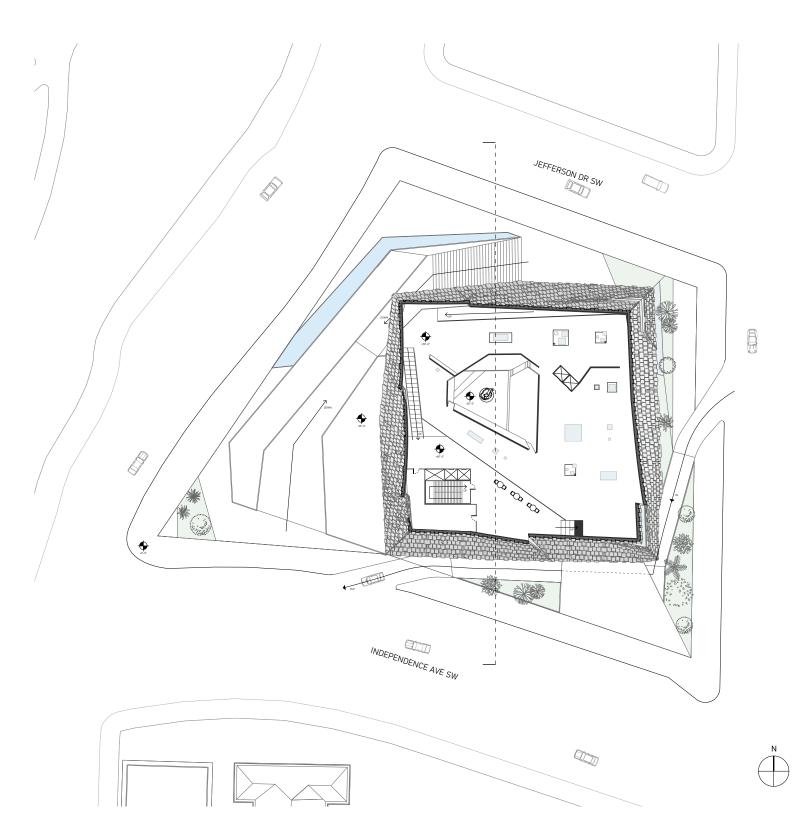


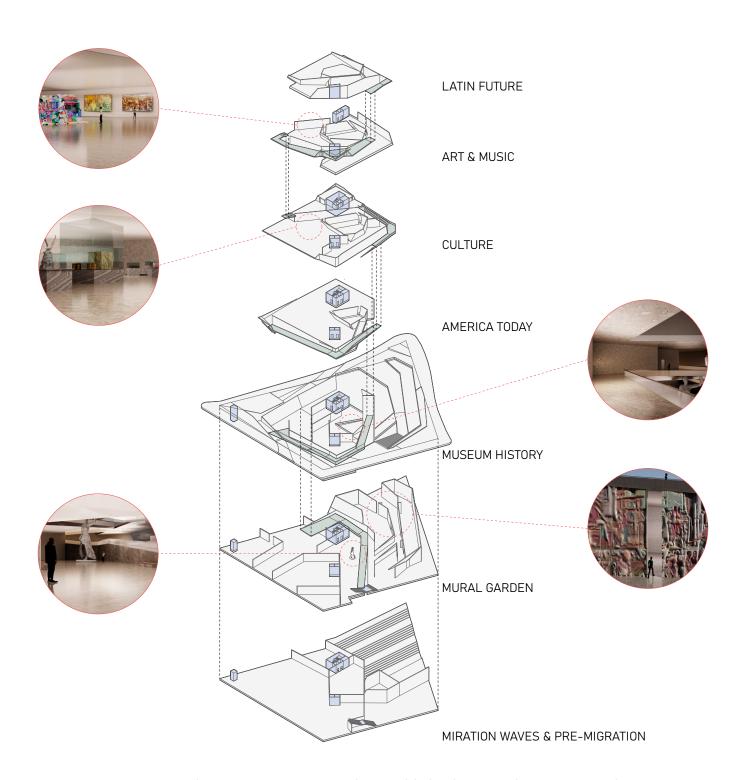


A primitive shape is chamfered on the top and bottom to create an entrance and roof. Next, the void in the central part of the mass is carved out to gain light in the interiors, creating an atrium.

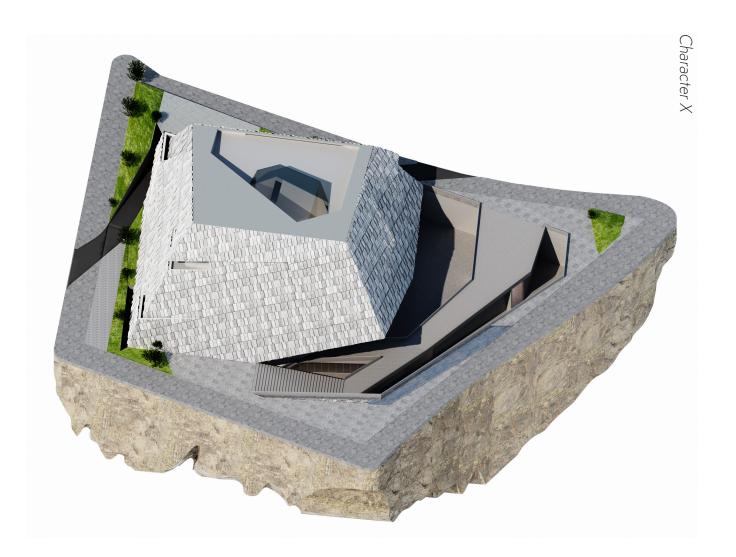


Traversing the interior spaces is made possible by the ramp that continuously follows the outer edge of the building form.

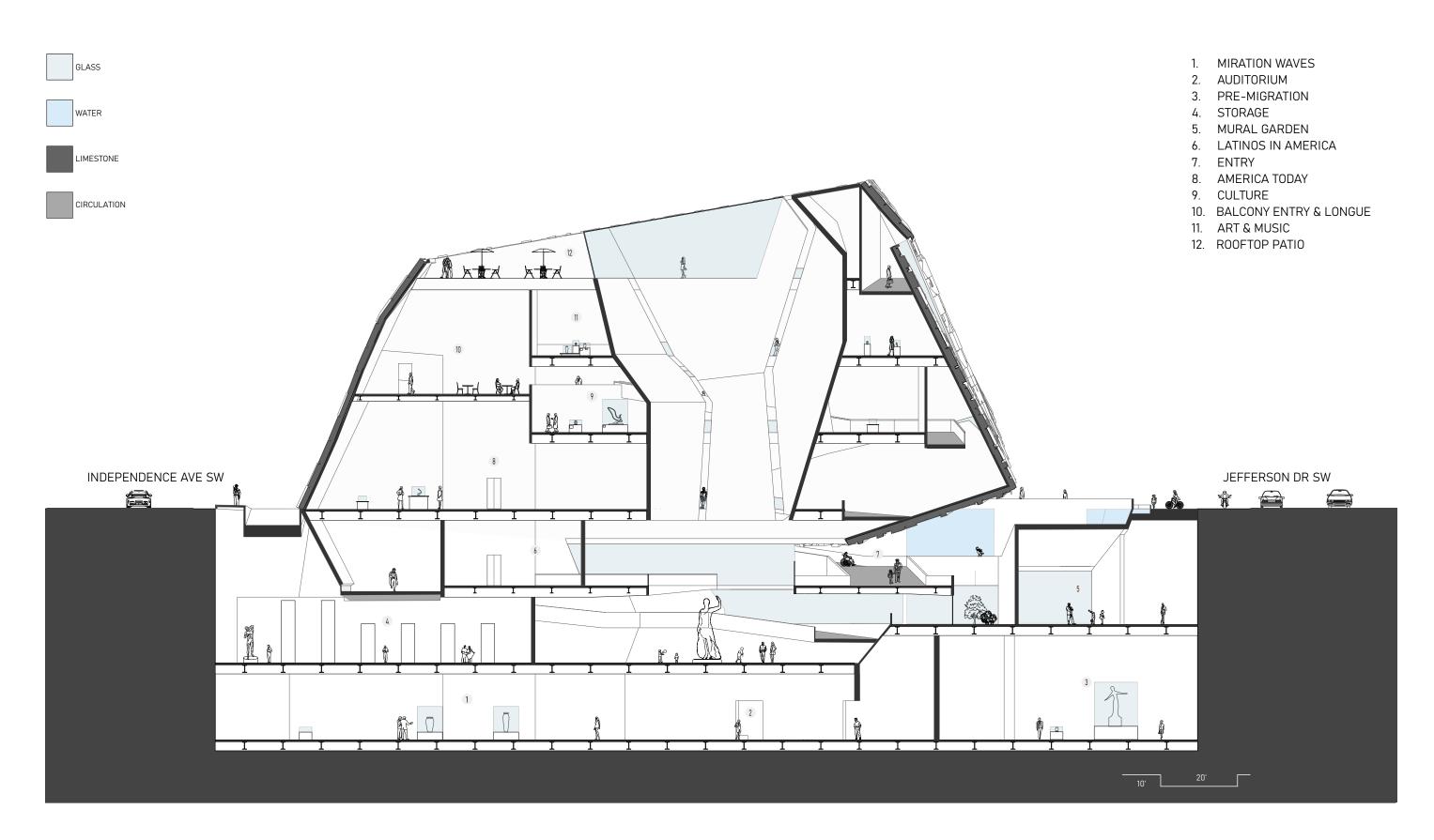




Traversing the interior spaces is made possible by the ramp that continuously follows the outer edge of the building form. Progressing through the ramp enables one to appreciate the surrounding view and vistas.







3D Printed Sectional model



Visitors can enter 20' below the ground level through accessing the ramp and staircases connected in the plaza. They can either choose to move up in the cultural galleries or go to the mural garden.



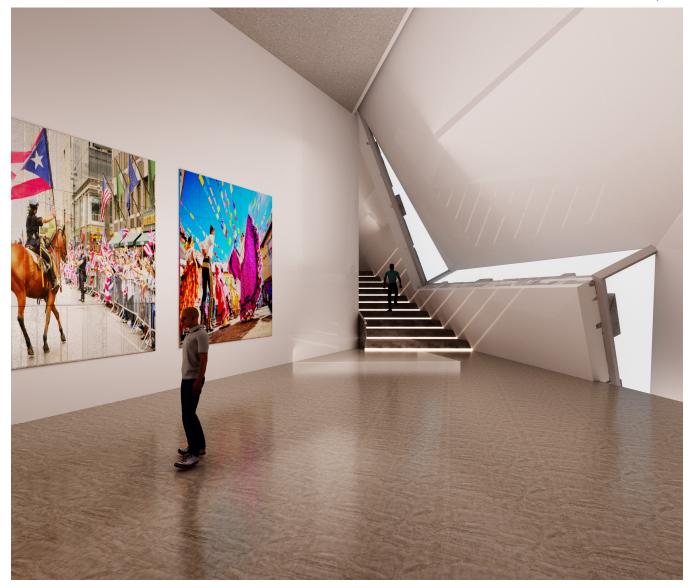


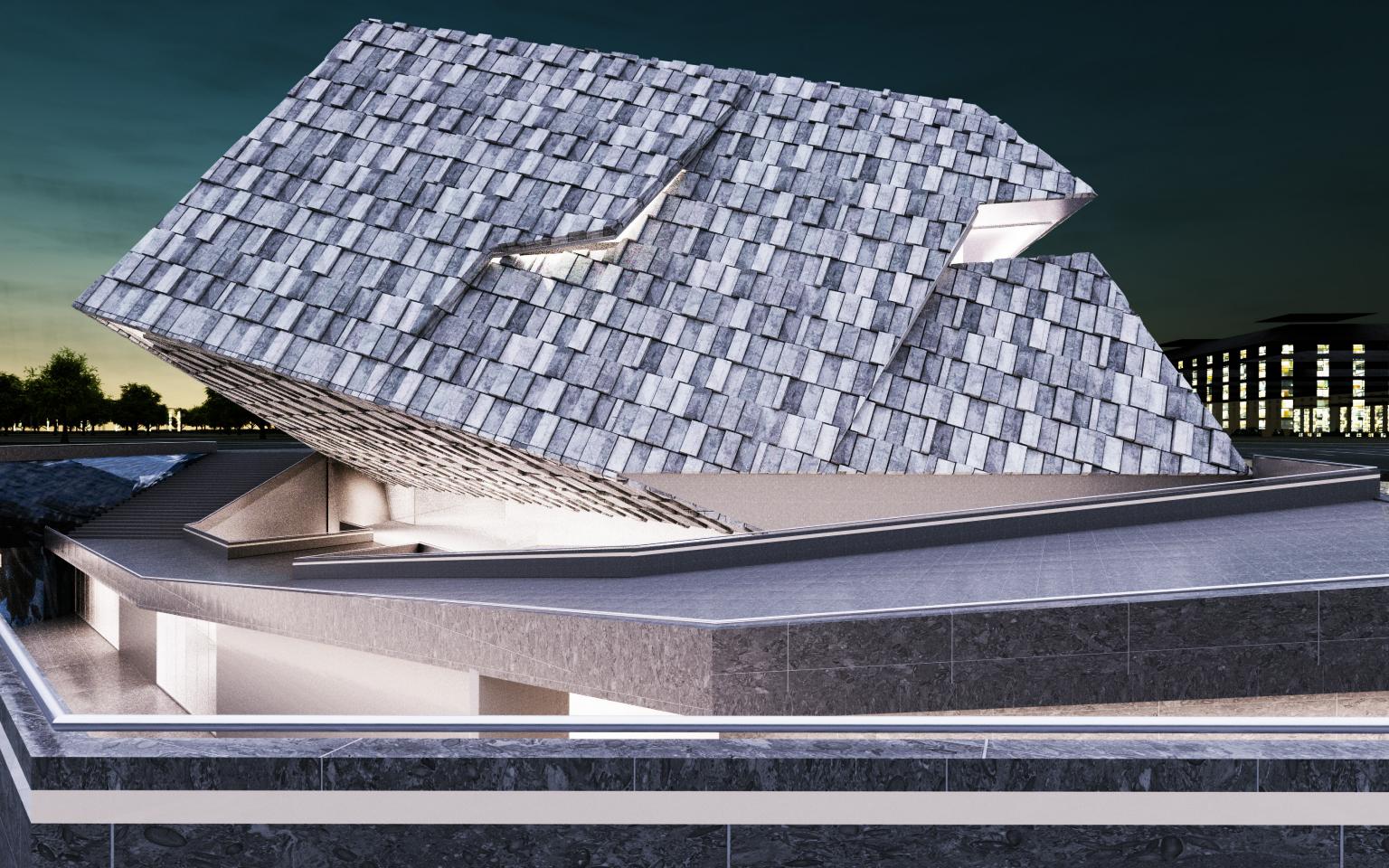






Entrance lobby





3GAX 02

VERTICAL STUDIO I Instructor: Maxi Spina 2022

GREENHOUSE

FOOD RESEARCH AND PRODUCTION FACILITY
Individual

BRIEF: The studio is a test case situated at the intersection of architecture and **productive landscapes** -the highly regulated, technologically controlled, production that shapes the land in our contemporary society. In particular, the studio will focus on **food production** in the city, intensive use of space, circular energy and water use. Contrary to conventional greenhouses, which employ fritted glass that obscures views in, this studio intends to put the interiors -and its experiments in **vertical farming-on display**, like a giant vitrine.

CONCEPT: Large scale commercial greenhouses behave as a machine, with each food production system placed and **sequenced in a pragmatic manner**. For efficient use of land and water resources various digital sensors are utilized to control ventilation, heating, cooling, and lighting which eventually gives opportunity for stable temperature, and food can be grown year-round.

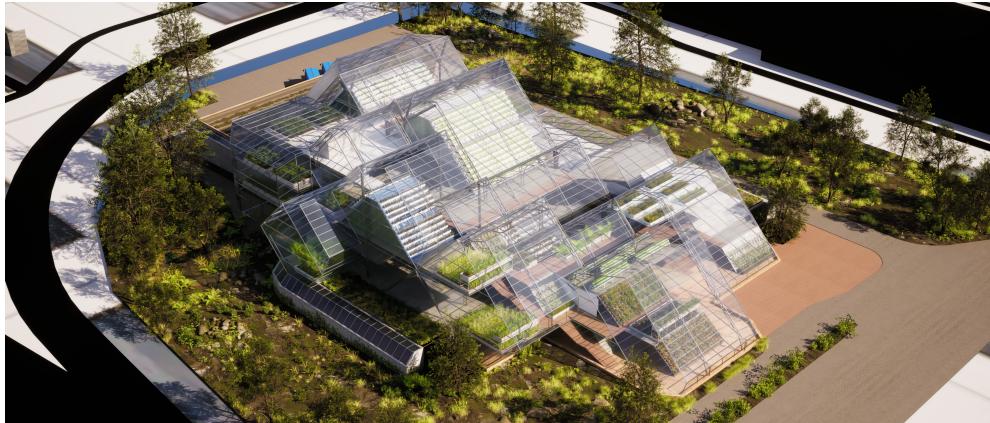
This greenhouse project in **Kent County, Washington**, explores the role that form, and spatial arrangement play in **enhancing the food production processes** alongside available technologies and speculating the relevance of the building materials used for greenhouses. Architectural decisions like building orientation, **formal repetitions**, **modular roof volumes**, and vertical stacking of slabs, are the main drivers of the project.

Rhino, Grasshopper, Unreal Engine, ZBrush, Photoshop, Adobe After Effects

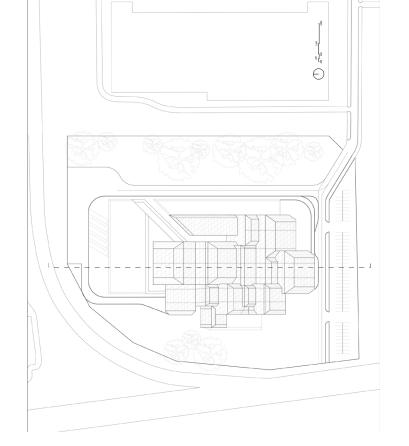
The form is derived from crystle formating found in the nature. The repetative champhered squared modules allow the interior space to have dynamic character, and an opportunity to have different climate zones, with different level of sunlight exposure, grow heights, and spatial volumes.



South View

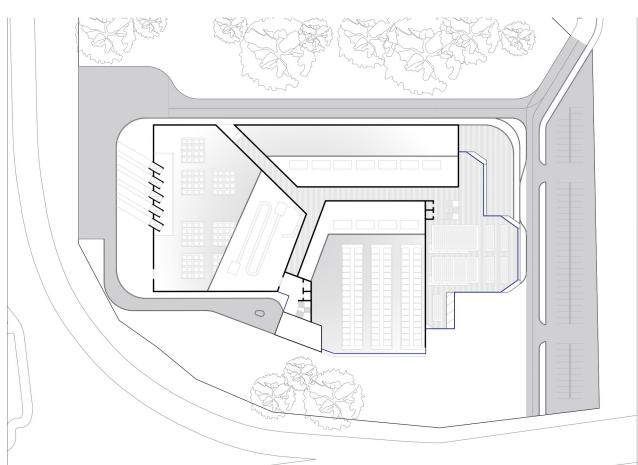


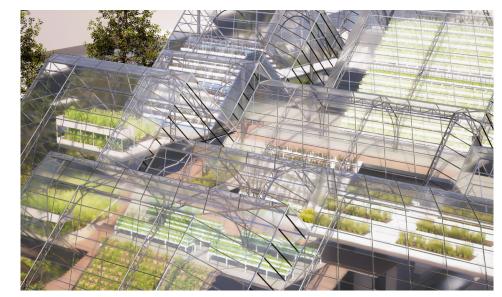
South View



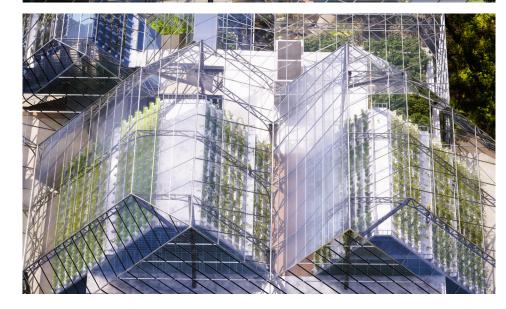
The Box Shed consists of machinery rooms, cold storage, packaging and sorting areas and loading docks. For better accessibility, these spaces are divided into 3 separate volumes, partially immersed in the ground, connected by a central street, that doubles as circulation as well as a public market.

The main plantation zones are placed on the top slabs. These slabs follow the direction of the glass envelope, providing maximum surface area for sun exposure.









The Electro-chromatic glass on the south slops, assists in creating optimum environemtal conditions for the growth by regualting the sunlight requirements, as it changes the opacity.









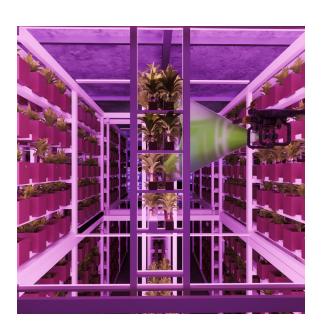
High Light Plants

The interiors are divided into various climatic zones, suitable for fruits and vegetables that are being grown.





Below these mountainlike slabs, are enclosed growing rooms, that use artificial lights for vertically stacked farming. By the night these LED lit labs keeps the growth process of the plants on.







BGAX 03

DESIGN DOCUMENTATION Instructor: Herwig Baumgartner 2022

STOMATA

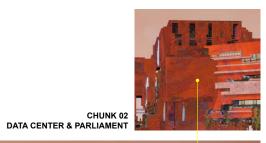
BIOTECH AND CLIMATE CHANGE

Team: Marbella, Kyle, Samson, Freeland, Zarina, Corey, Omar

BRIEF: The detail developement and documentation of a project called Stomata. This **biotech lab** is a building in El Segundo, California, that houses Microclimate and environmental research focusing on **water recycling** and the endurance of cacti. The cental parliamentry hall centres the site houses the **iceberg** and grounds the building onto the **flooded ground** plane at the **stepwell**.

CONCEPT: The entire **building** is **lifted** from the ground, only the access cores and few other **service** shafts come all the way down, doubling as a steel structural shafts and water storage tanks. The flooded water on the ground floor, has plater boxes and pedestrian walkways providing access points for the upper laboratory levels. The iceberg is artificially made using chiller pipes systems used in the ice skating rings. My contribtion to the team, is detailing of the entire **chunk 3** (flooded grounds, water drains, planter boxes, pathways and iceberg) and designing water recycling systems by mapping the water circulation in the entire building and its HVAC. Along with water and HVAC outlets in the laboratories, I was also incharge of ceiling plans, providing oulets and inlets for air flow and lighting layouts.

Rhino, Unreal Engine, Photoshop, AutoCAD, Illustrator



CHUNK 01 LABORATORY & WATER STORAGE



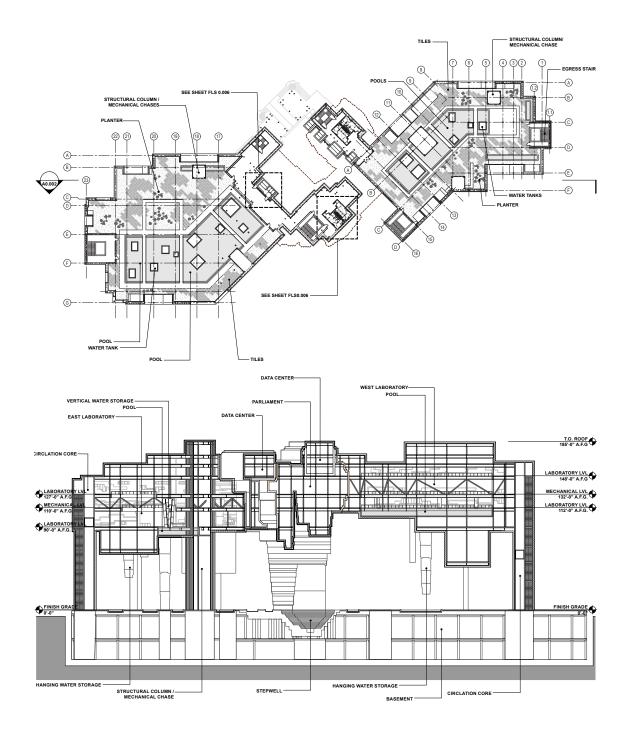




The chunk 01 and 02, understands the details of the ceramic pannels and its assembly on the building facade structure.

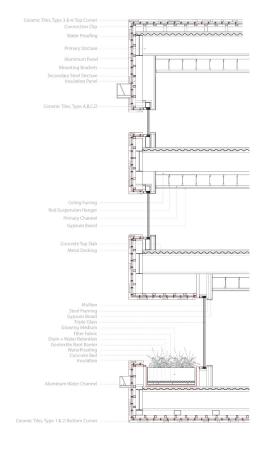


CHUNK 03 EXTERIOR LANDSCAPE & ICEBERG



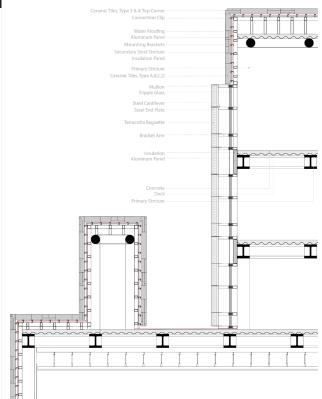


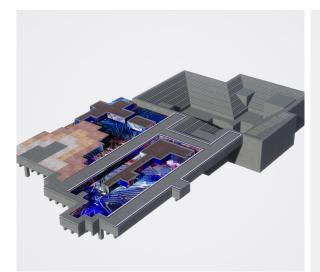
Chunk 01

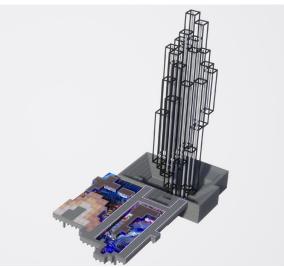


Chunk 02



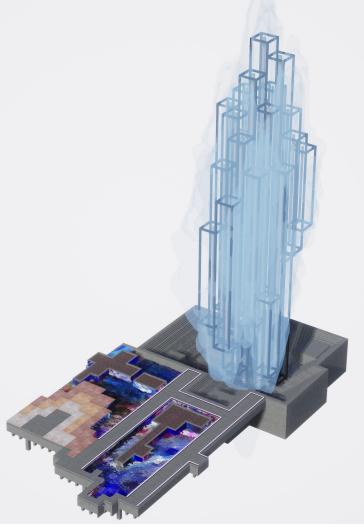






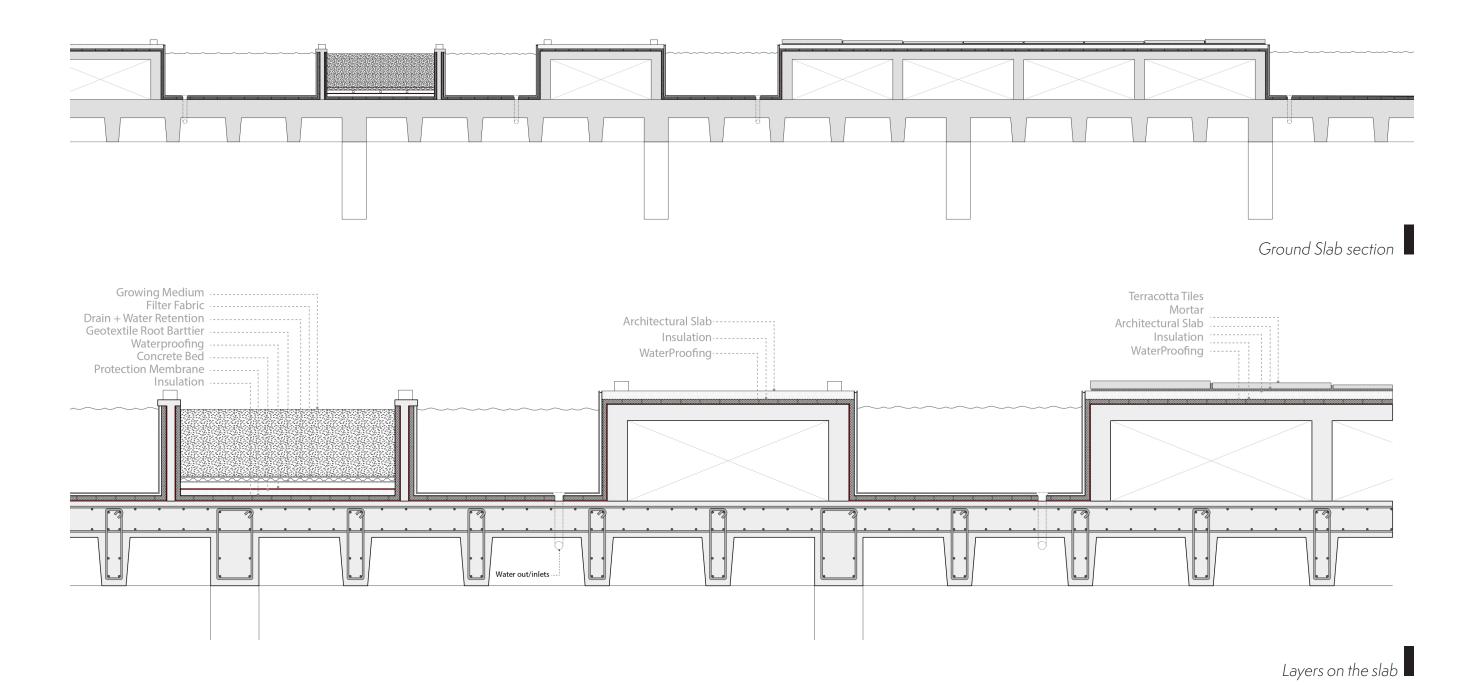


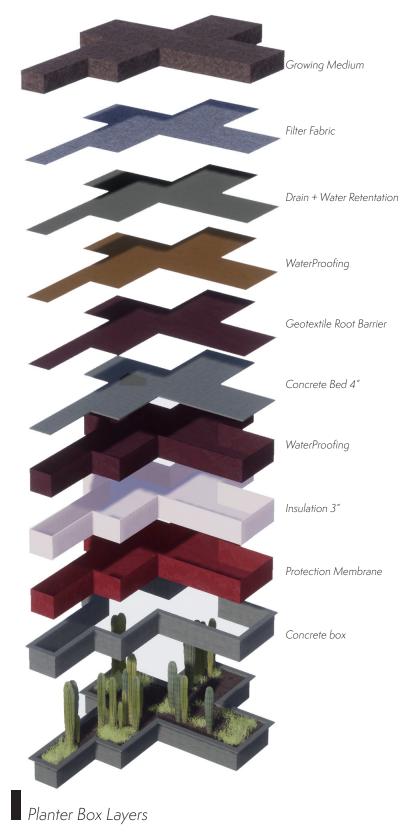
Entire groundfloor slab is flooded with water, walkways and planterboxes, which requires layers of construction systems, of waterproofing and finishes.

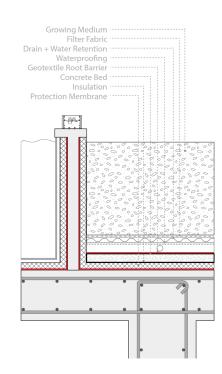


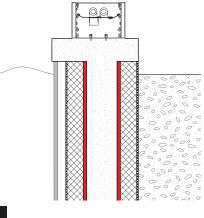
Chunk 03

The Stepwell, holds the giant Ice Berg. The water from the ice berg is collected in the stepwells, and also in the flooded pools that spreads on entire landscape of the groundfloor.

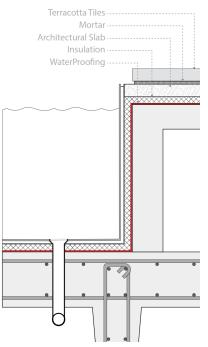


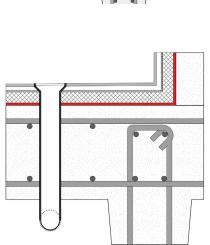




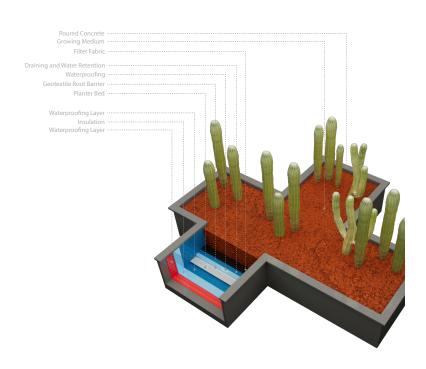


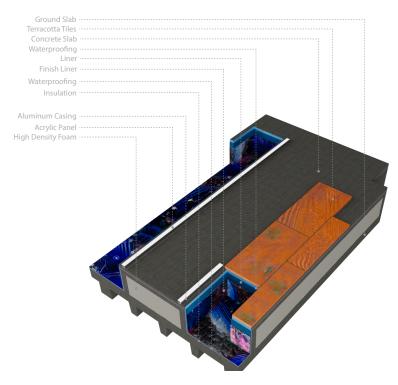
Planter LED Lights WaterPool details and 3d diagram showcasing layering and materiality of the hardscapes on the groundfloor.

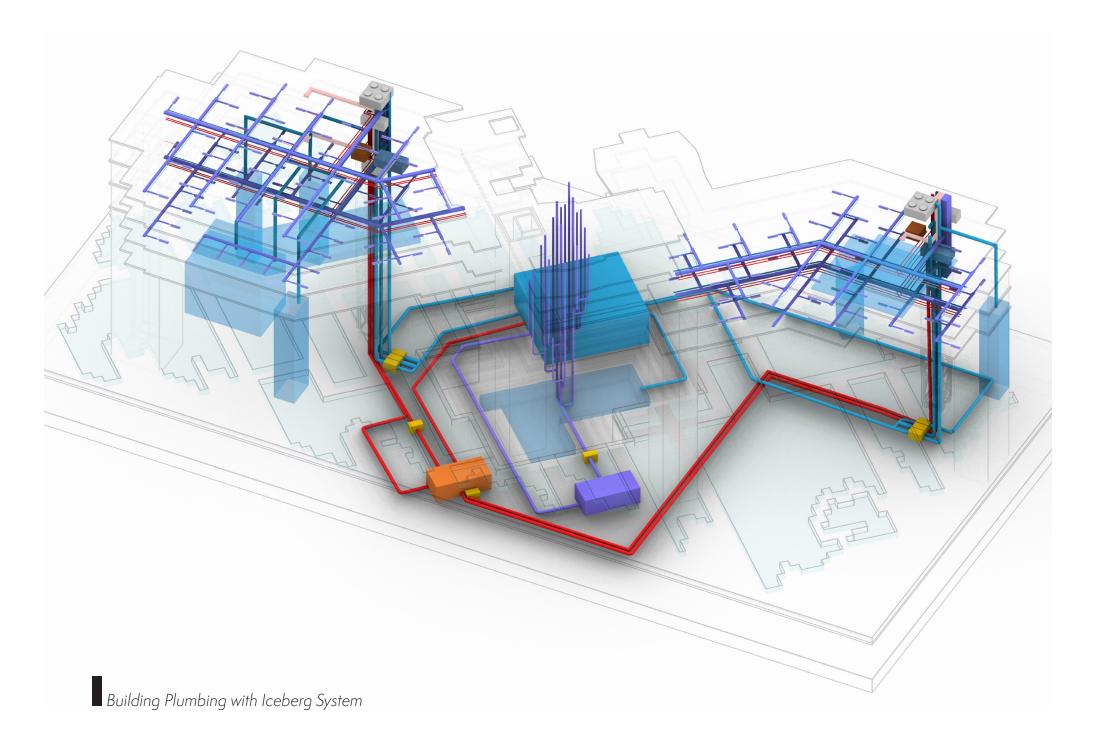


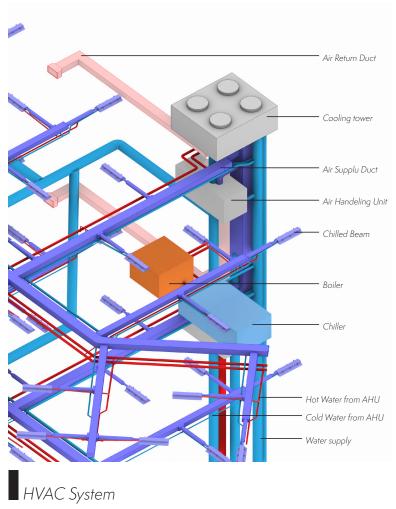


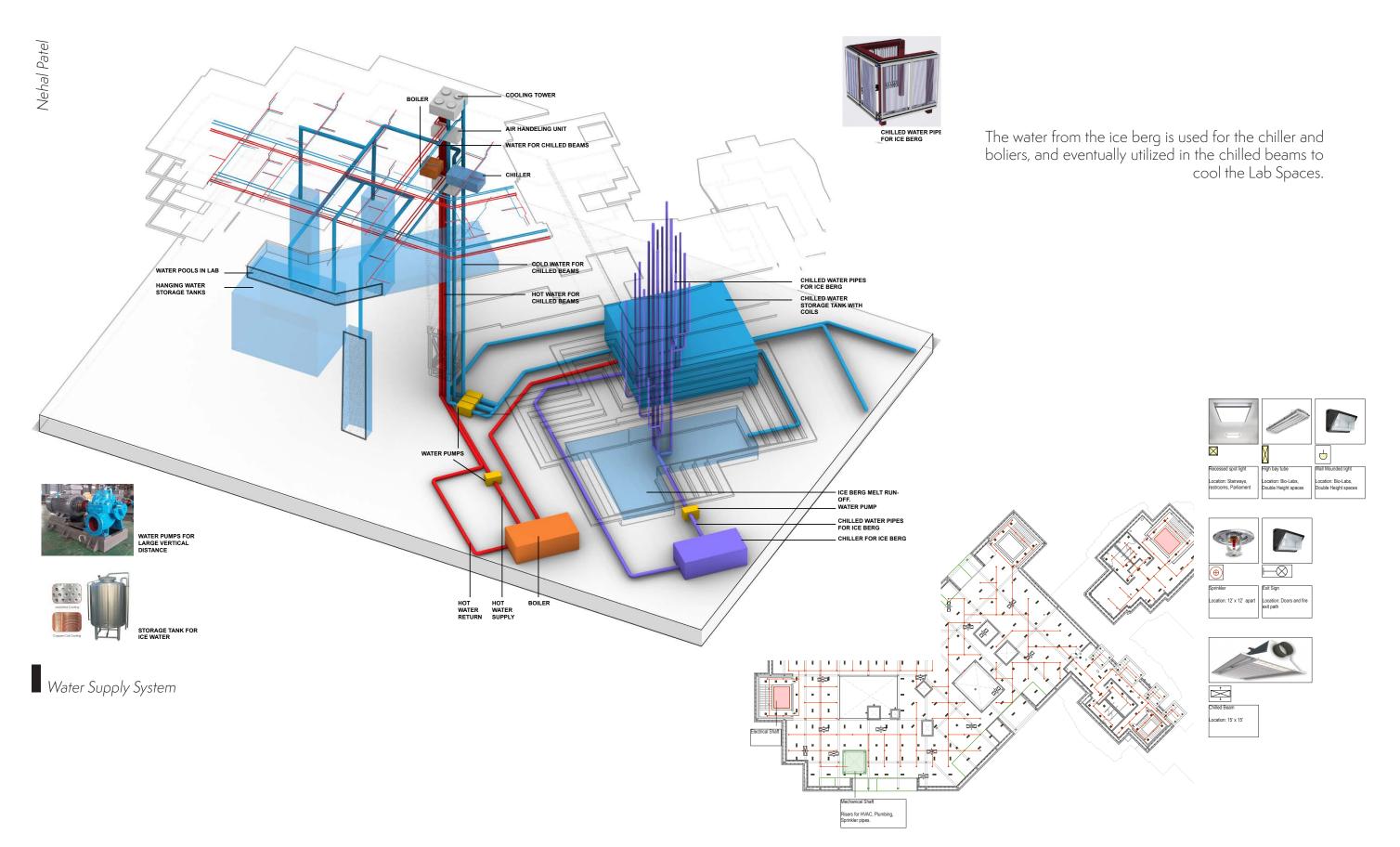
Drain pipe in the slab Water drain Pipes in the pools, for emptying and fillling the pools with water.

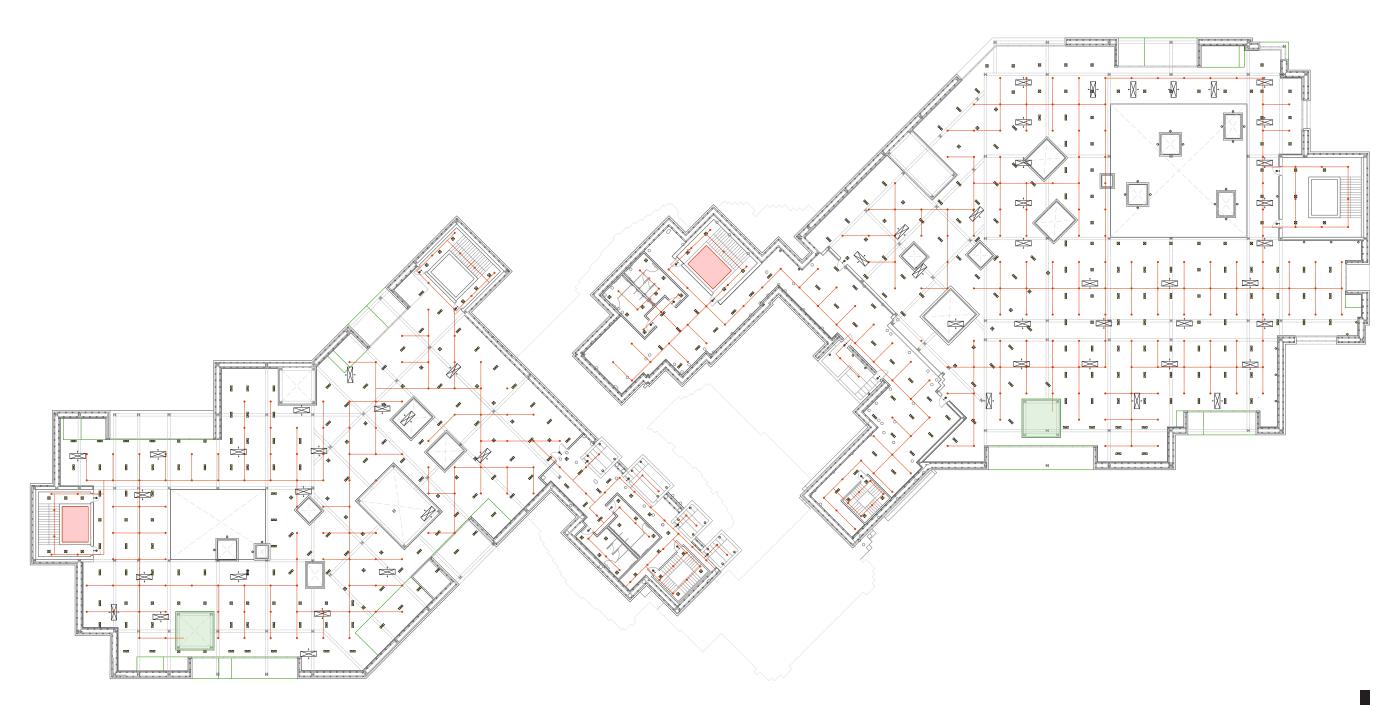












Ceiling Plan (Lighting and airflow)

2GAX **04**

ADVANCED MATERIALS & TECTONICS Instructor: Dwayne Oyler, Randy Jefferson 2021

ADIDAS SPORTS ARENA

FACADE STUDY AND TRANSFORMATION

Team: Hiwot Zegeye, Gao Sun, Liu Zhengda

BRIEF: Tectonics in architecture can be understood as "the science or art of construction, both concerning use and artistic design." Working through in-depth **Precedent analysis** and speculative design transformations, students will document the technical, environmental, and cultural dimensions of a building Facade, formulating hypotheses about the interrelationship between **Envelope systems**, and their related Structures.

Every Façade represents a subset of Systems that are developed in response to the Architecture of the building and the need to create a barrier or enclosure. These subsets exist in response to the Architectural concept of the Façade where it is necessary to create barriers that deal with water, air, temperature, and acoustics; create Tertiary support for the Architectural materials of the Façade and connect the Façade to the Structural Skeleton of the building.

The process includes, **documenting the existing building structure** to understand the tectonics of the building assembly, and **then proposing the alternate idea of facade design**, and detail out ways to attach it to the primary structure.

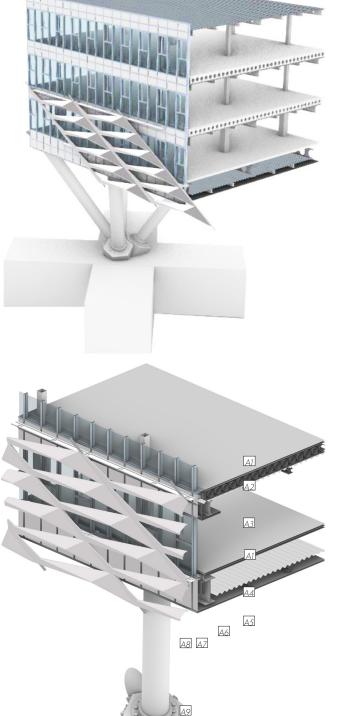
This study includes two building precedents:

Study Precedent: Adidas Sports Arena
 Transformative Precedent: Solar Carve

Rhino, AutoCAD, Illustrator

By Behnisch Architekten

STUDY PRECEDENT: ADIDAS SPORTS ARENA



Building chunk

The precedent study, documentation of building chunk to identify primary structural members, secondary structural members, connections, and facade elements.

Chunk Detail Legends

A1 Finish floor level

A2 Hollow concrete slab

A3 Tie beam

A4 Corrogated metal sheet

A5 False ceiling

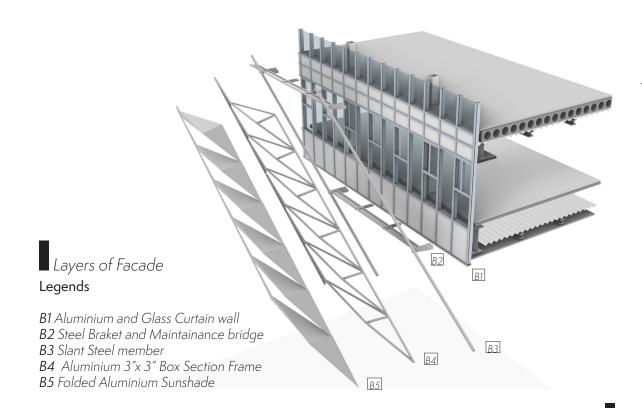
A6 Boundarybeam

A7 Cladding

A8 Shading element

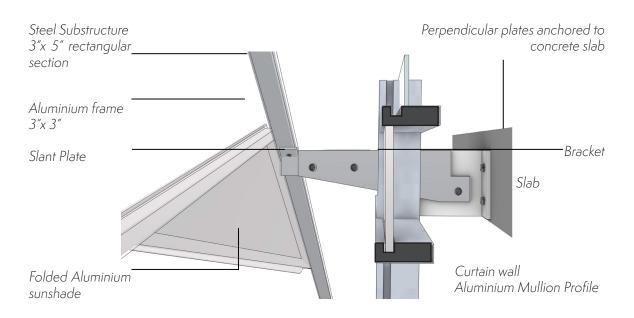
A9 Shading element

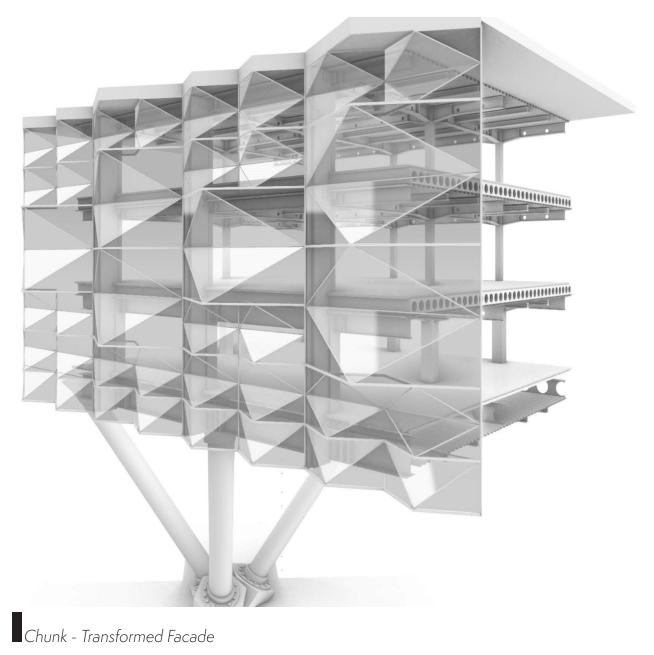
Zoomed-in detailed chunk section, to identify finer elements of structure and facade. Materials and accurate sizes of structural members are also documented.

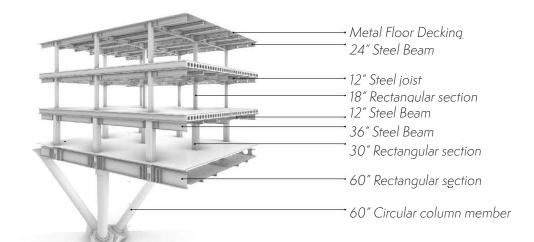


Bracket connection

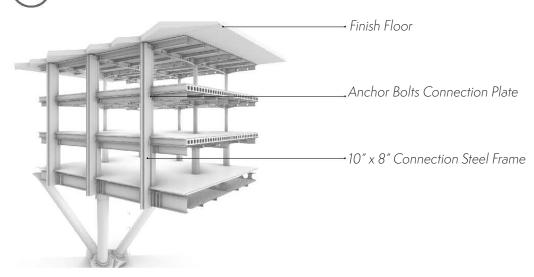
Steel Substructure: 27" long, 3"x 5" rectangular section attached to slab via Steel brackets. Brackets also support aluminum maintenance bridges.



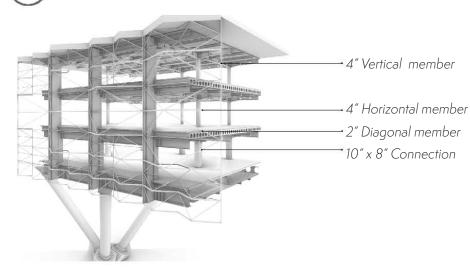


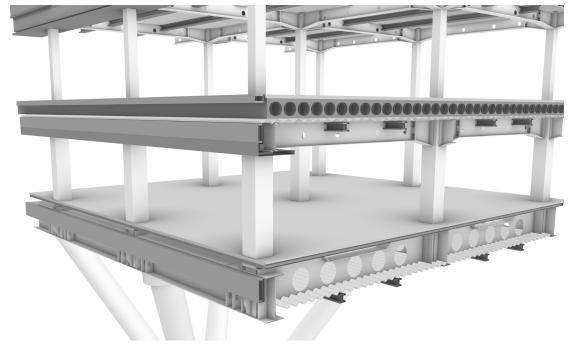


ANCHOR BOLTS FOR FACADE STRUCTURE



FACADE STRUCTURE SYSTEM

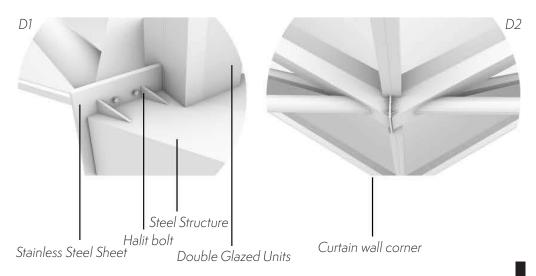




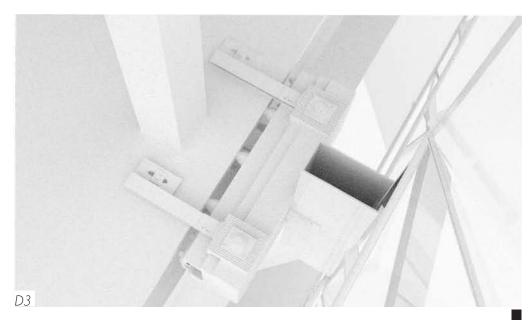
Horizontal section added to support vertical members for facade



Anchors connecting slab to vertical member of curtian wall



Curtain wall profile connections



Anchor and slab connection

SEM 10 **05**

UNDERGRAD THESIS Instructor: Mansi Shah 2021

MULTI-LAYER BIOPHILIA

MIXED USE DEVELOPMENT Individual

AIM: This thesis demonstrates the application of biophilia in the urban environment by designing and deriving strategies for mixed-use development in CBD- West Zone of Ahmedabad City.

BACKGROUND: It is believed that humans have a congenital inclination towards nature and natural processes, this phenomenon is termed "biophilia". Human health and well-being are linked to the natural world. Man is part of a very large ecosystem that sustains itself by the interdependency of different living species. Harnessing each other's strength and abilities is a way of life, where all exist harmoniously and in chaos.

Bigger cities are built at the cost of extinction of biodiversity, and these are just "concrete jungles." Human ecosystems largely fail to meet the requirement of pure air to breathe and water to drink. Human-nature connections have to grow strong in man-made environments not only for health but also to save disappearing biodiversity.

This thesis explores the **inclusion of biodiversity** into the built environment to link urban man with nature and **proposes the new typology** of the multi-functional building that is based on biophilic concepts.

AutoCAD, Illustrator, Sketchup, Lumion





01 - 37% Live and Work units

no. of floors - 14 (10th - 23rd) no. of units - 168 Total built up - 10,608 sqm Built up - 37%

02 - 09% Co-working + Recreational spaces

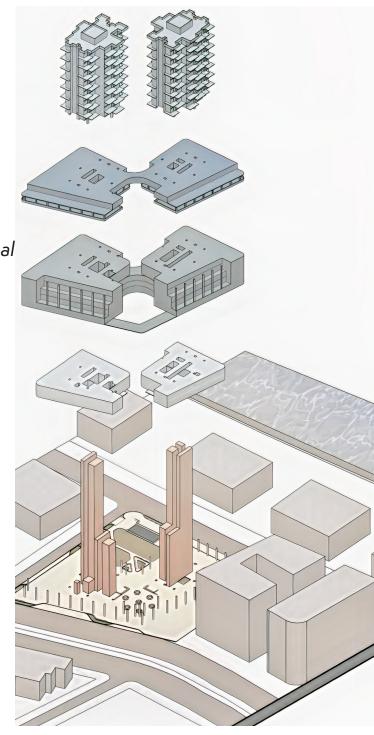
no. of floors - 2 (8th - 9th) 8th - Co-working + Indoor game 9th - Gym + Terrace garden Total built up - 2,700 sqm Built up - 9%

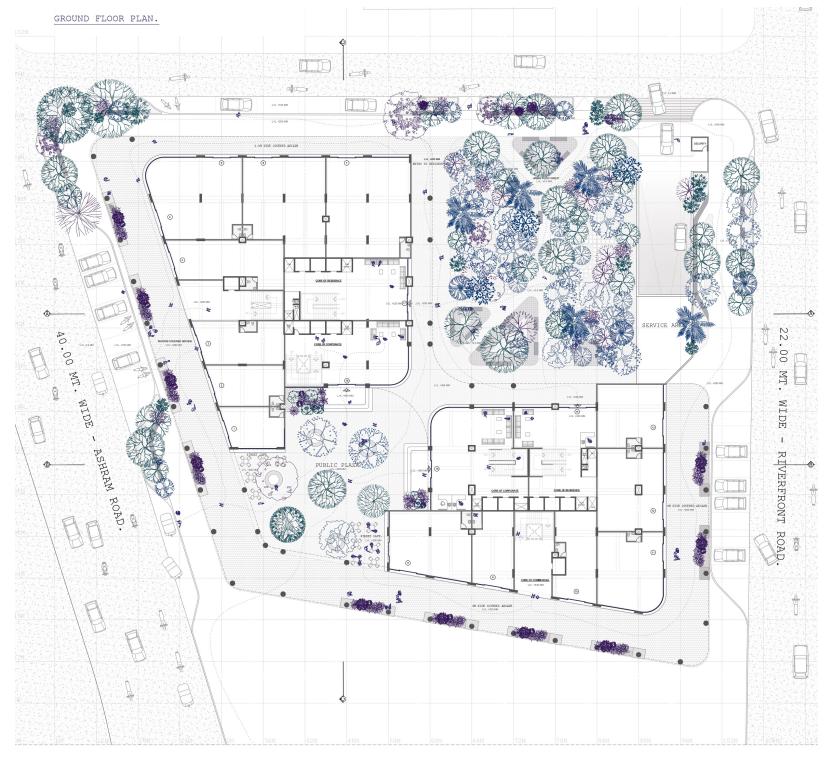
03 - 42% Corporate offices

no. of floors - 5 (2nd - 6th) no. of units - 60 corporate officies Total built up - 13,550 sqm Built up - 42%

04 - 12% Commercial shops + cafes

no. of floors - 2 (G + 1st) no. of units - 24 Retail units Total built up - 3,520 sqm Built up - 12%

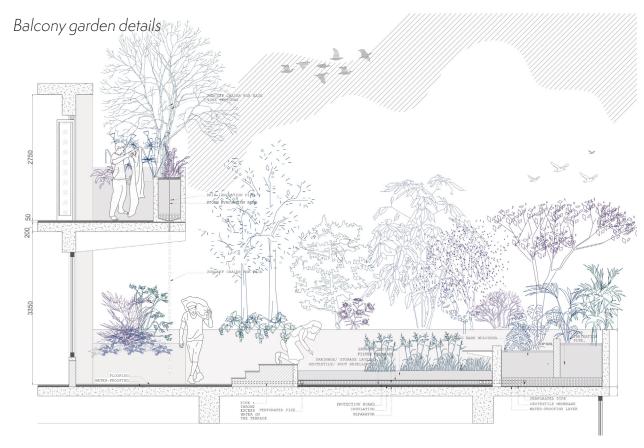


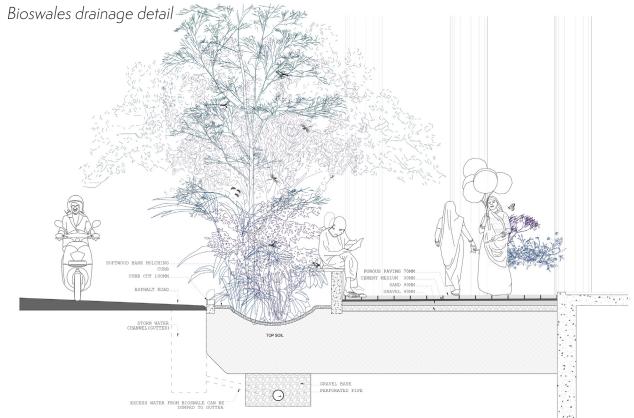






A green facade is created by growing climbing plants up and across the facade of a building, either from plants grown in garden beds at its base, or by container planting installed at different levels across the building.









Terraces of the two towers are landscaped with edible variety of plants and shrubs. These would be a community edible terrace farm, maintained and harvested by the residents and for the residents of the towers. Bioswales are designed along the road, and shade giving trees are planted to ensure shade in the street and let biodiversity thrive.

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THESIS 06

GRAD THESIS Instructor: Karel Klein 2023



ALTER_ETICS A CASE ON URBAN AESTHETICS Individual

STATEMENT: Alter_Etics comes from the combination of alteration and aesthetics as project deals with experimenting with the aesthetical rearrangement as a technique to better understand and reimagine collective building blocks in the urban cityscapes and reintroducing the requirement for beauty, adding the value to the building beyond mere function. The process involves, study of existing buildings, identifying their repulsive and attractive qualities, and can add to the idea of continuation of contextual beauty.

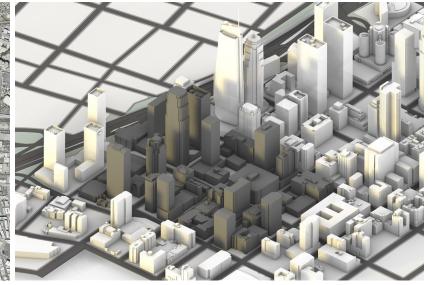
BACKGROUND: In recent years, there has been rise and revolt against banal and soulless infrastructure that has been in trend for so many years. These homogenized, individualistic architecture is fast and easy to build, achieving sterile, and transport driven structures, that are usually out of scale with its surroundings. In pursuit of solving modern functionality related issues, mainstream architecture has **lost liveliness**, and are simply reduced to glass boxes. "Ugly Spaces are punishing, as mass incarceration cells announce so brazenly, they inhibit healing and rejuvenation." Elaine Scarry. This thesis explores the possibility and importance of Aesthetical rearrangement in the form of surreal collages, to envision and achieve collective urban aesthetic qualities that are in harmony with each other.

Rhino, Unreal Engine, Photoshop, Illustrator

Site: Downtown Los Angeles

The newer construction in Downtown Los Angles, along with existing decaying historical structures, these blocks are coming up as a chaotic pallet of unfitting facades and volumes that are largely for vehicular usages and not entirely pleasant for humane experience. The decline of aesthetical value is clearly visible in the precedent blocks.



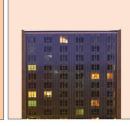


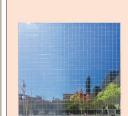
Cataloging the Buildings according to typology. Historic, Corporate, Parking, Office, Residential































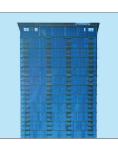










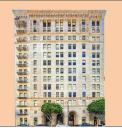
















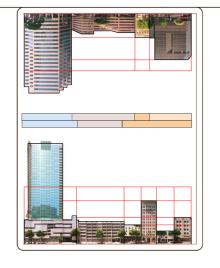


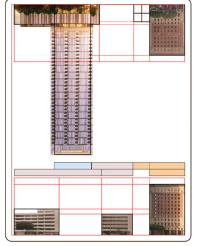


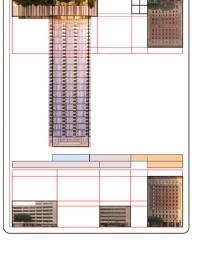


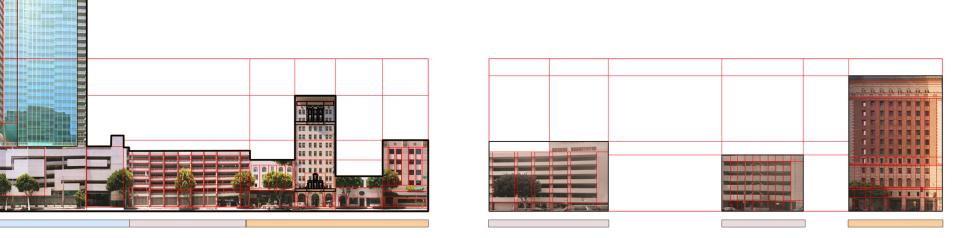


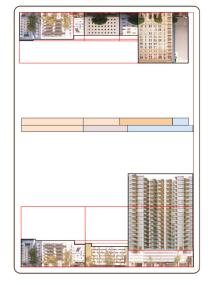


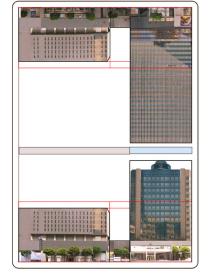


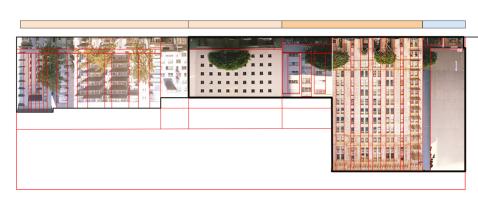




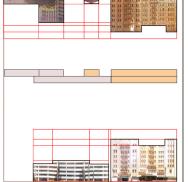








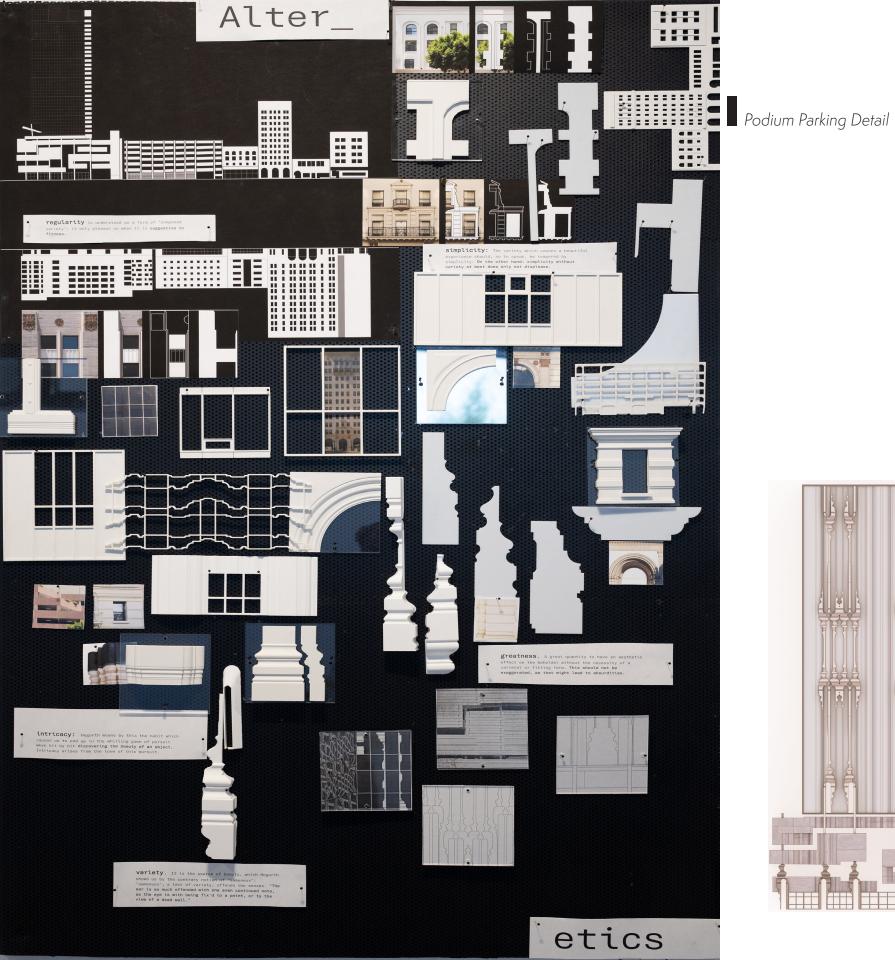


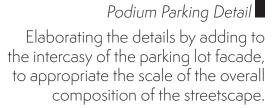


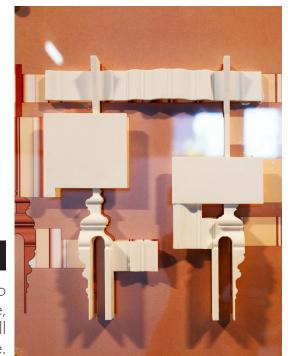
The methodology involves 3 stages,

- 1) Identifying and dissecting the building aesthetic, 2) Delving into the strategies to stack, scale, alter, or arrange the elements, and 3) Relating back to the surrounding aesthetics to balance Proportions of elements.

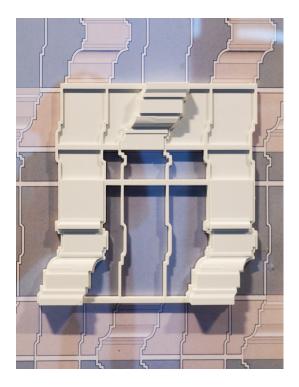
Proportional Analysis of 6 blocks











Element bracket Windows

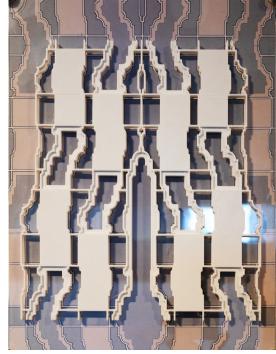
The window details are eleborated by adding more geometrical intricasy and 3d surfaces to otherwise 2d facade pattern.

Sheraton Hotel



This iteration is derived to breakdown rectangular grid and reintroduced sense the sense of symmetry and details.

Macy's Plaza



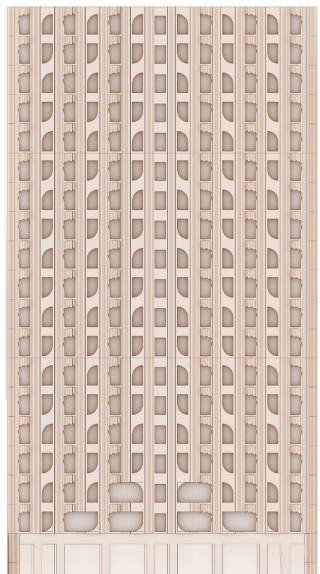






Element Vertical Fins

The hybrids of classical profiles are arranged as it shapes the glass wall of a skyscraper. The shapes merges with the vertical mullions.





Element surface profiles

This facade is relatively simple, yet the surface creats intersting curtain flutes, cutting through are the window shapes that has variety, similarity and harmony.



SEM9 **07**

DESIGN STUDIO Instructor: Hardik Pandya, Rajdeep Routh 2020



BOULEVARD AS PUBLIC SPACE

PEDESTRIANISATION & URBAN ELEMENTS

Team: Dhanraj Rupawala

AIM: This project aims for the rejuvenation of deteriorating cityscape along roadside as an **urban element**, by integration of vending activities as well as safe for pedestrain commuters, development to be done on scape **under High Tension Wire on S.G. Highway.**

BACKGROUND: The Sarkhej - Gandhinagar Highway, connects the city of Ahmedaabd with Gandhinagar, the capital of the state of Gujarat, India. This highway corridor is a dynamic commercial road that houses not only commercial complex but as well as, recreation, theatres, corporate parks and elite clubs of Ahmedabad like Karnavati and Rajpath. This corridor is mix-used development and hence very varied categories of users can be seen enjoying in this modern cultured urban space. At night the S.G. Highway is very ambient for social gathering or chillout spot for youth of Ahmedabad. During New Year's Eve or Navaratri nights, the highway is a party road.

The green zoned land parcel below the High-Tension Wire (HTW) on S.G. Highway is a **5KM stretch**. Cluttered spaces anad divided activities lack a proper infrastrcture that a city's outdoor **social space** should have. Also, the local venders or street hawkers are encroaching vacant land and causes **green spaces** to diappear. Hence, all these results in decaying environemntal conditions.

AutoCAD, Illustrator, Sketchup, Lumion, Photoshop

IDENTIFYING ISSUES ON SITE

- 1. Cluttered land parcel.
- 2. unsafe infrastructure for pedestrain commuters.
- 3. Encroachments on vacent lands by vendors, hawkers, slums, illegal parking.
- 4. Public utilities in worst conditions.
- 5. Unhygenic conditions in road-side cafes and shops. Unsafe positioning.
- 6. Water logging and decreased green space.

-IDENTIFYING USER GROUPS-



DEVISING THE STRATEGY

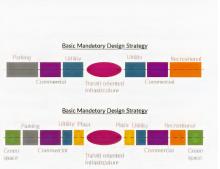
The strategy for land use distribution of entire stretch is formulated as per a standard node model.

At the node the first function is a buffer space, that allowes pedestrains to have a break from vehicular traffic. A bus stop or a drop off is created along with plaza, to ensure safe access to public transport.

Utility distibution is done adjacent to TOD, and plaza.

Commercial activities, such as vending and street side cafes are arranged after the utilities.

Distribution of supporting functions are done based on immediate contextual needs and usage.



CONTEXTUAL ANALYSIS



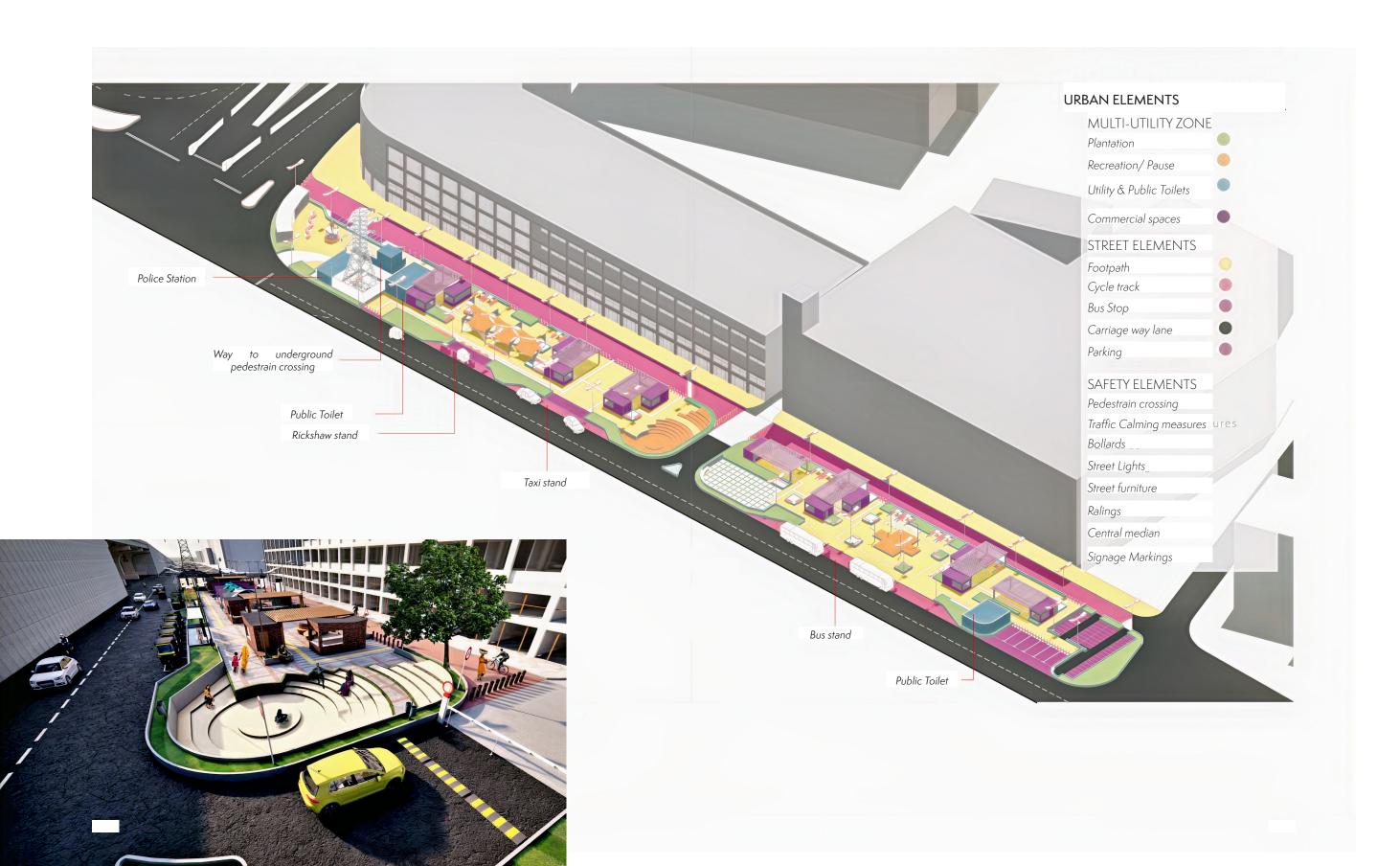
MAPPING USAGE OF SPACES



REDISTRIBUTION OF ACTIVITIES!







3GAX **08**



CLAY WAVE

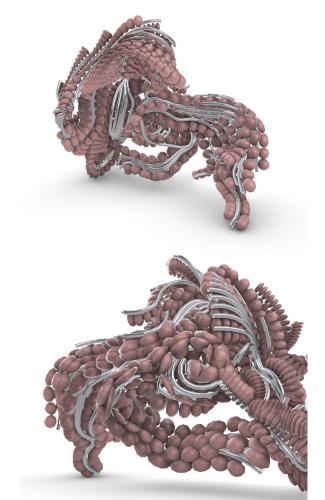
AUGMENTATED FABRICATION

Team: Eric Zhou, Chen-Yeh Wang, Freeland Livingston

BRIEF: This seminar, focuses on building a steel structure using Augmented Reality fabrication techniques. The brief is to design a furniture/architectural elements using generative design methodology and built into 1:1 scale using steel rods and bars (other materials such as steam bent wood can be proposed optionally). Steel bending machines, metal shop, welding machines are heavily used as main fabrication tools. Hololens is used as the main AR device. Unity is used to develop custom AR application. Rhino and Fologram is used for AR construction.

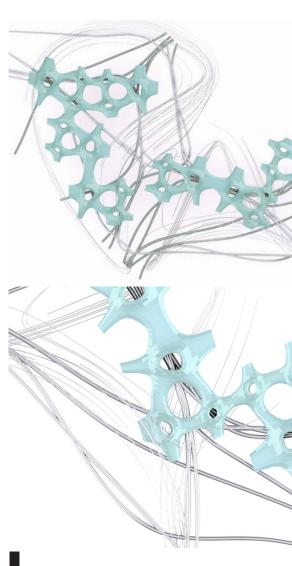
CONCEPT: Our Team has selected the combition of **Steel and ceramics** as main materials, to create a geometry that can serve a purpose of a **facade**. The designs are generated using Grasshopper Nursery plugins. The parallel sets of 3 dimentional curves in the space makes the **structural skin** of the facade. Covering it occationally with the custom shaped clay tile, that follows the natural curve of the structural rods. The play of solid and void creates the shapes of the **ceramic ribbons** and taking the overall shape of a **wave**. The structure combines, the **AR aided workflow** to achieve complicated geometry, while also bringing in the **quality of craftmenship in moulding the clay tiles** with dexterity.

Rhino, Grasshopper (Fologram), After Effects, Unity, Illustrator, Welding, Clay Moulding



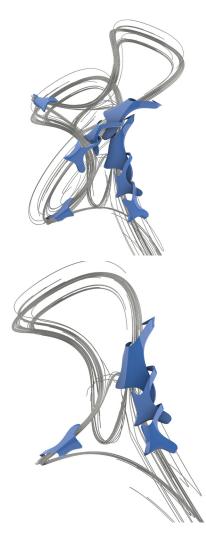
DI 01

Simple and identical ceramic objects aggregating all over the steel rod cuves.



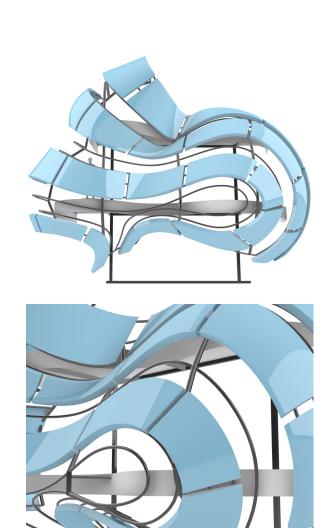
DI 02

This Iteration has complex ceramic objects that can be casted using custom moulds that are 3D printed. The structure consists of 2 different rod sizes. the thicker pipes are structural and thiner ones acts as fins of the facade.



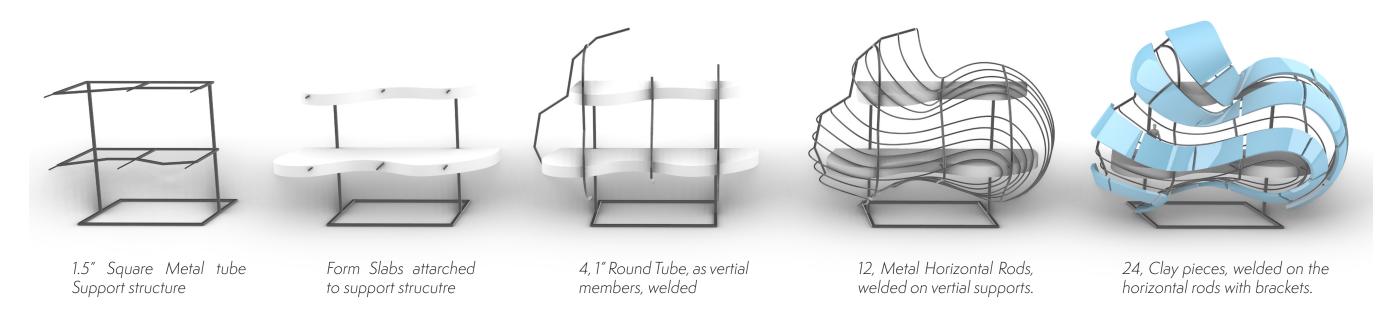
DI 03

The structural rods are parallel to eachother and is enclosed by different sizes of similar shaped shingles that overlap to form a continuous opaque surface.



DI 04

The final iteration, consists of simple cermaic geometry but complex overall pattern, with all custom shaped pieces of clay tiles and rods.



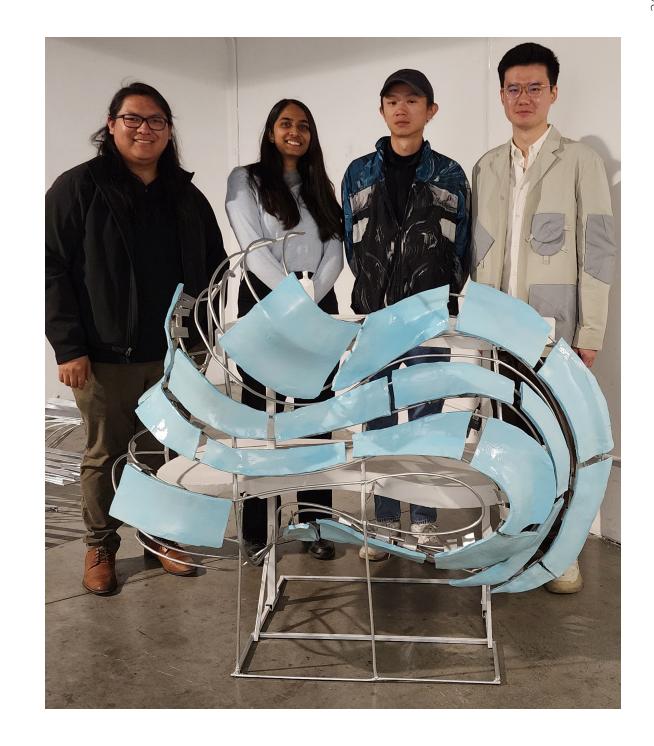


With the combition of fologram and hololense, the tool is used to acurately bent the rods in the space, eventualy tracing the digital 3d model with actual design elements.

The completely sculptural approach for making ceramics tiles adds the touch of hand-craft to the fabrication workflow that is digitally designed and AR aided.







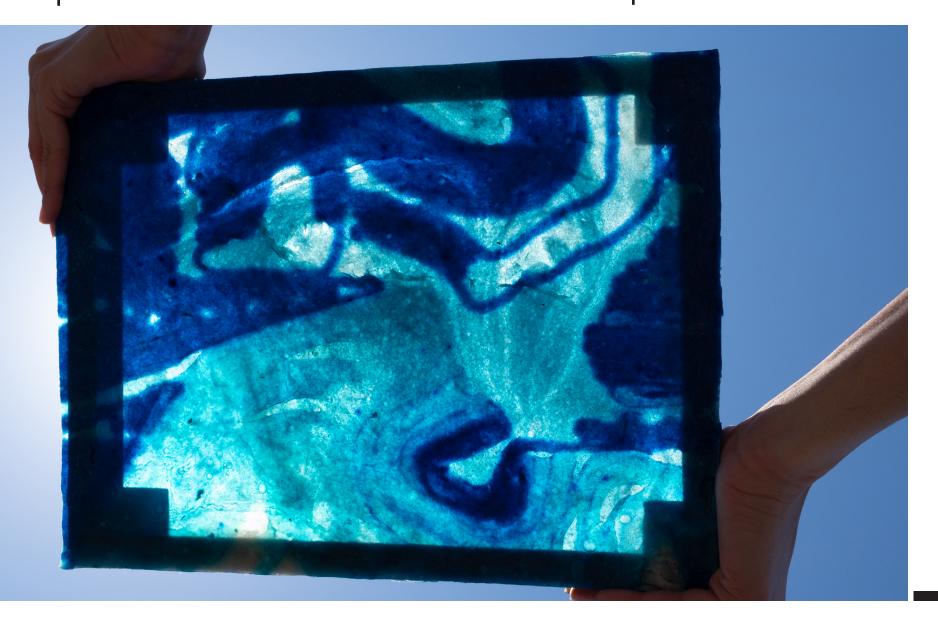
3GBX **0**9



ARCHITECTURE FOR CLIMATE CHANGE

IFESPAN

Team(07): Emily D, Marbela F, Matthew H, Saumil U, Piyush P, Adam J



BRIEF: LIFESPAN explores the topic of climate change by investigating the potential of design, technology, and **new materiality** in Architecture as a means of aiding the global fight against environmental warming and accelerating climate change. This course will evaluate design at the confluence of **sustainable materials** (Biopolymers) and robotics with an emphasis on emerging fabrication techniques, synthetic ecology, and net zero Architecture. This Applied Studies seminar combines and research the **Eco-technology** precedents and their manufacturing processes, followed by material design using **Al generated textures** created by 3D print toolpath patterns. Finally designing the 400Sq ft ADU unit that uses the designed material as a main Building "superskin", and prototyping elements integrating Robotic toolpath printed by ABB IRB **6700 Robot** designed in Rhino grashopper.

SITE: The proposed ADU unit is a pavilion designed to serve a short lifespan, in the **Burning Man** festival located in the middle of desert in **Black Rock city.** The idea that biopolymer applications are novel and new as an **architectural skin**, makes it a perfect material for further research and testing fabrication methods, eventually gaining expertise and finally **leaving no residue as biopolymer decomposes in the heat of desert.**

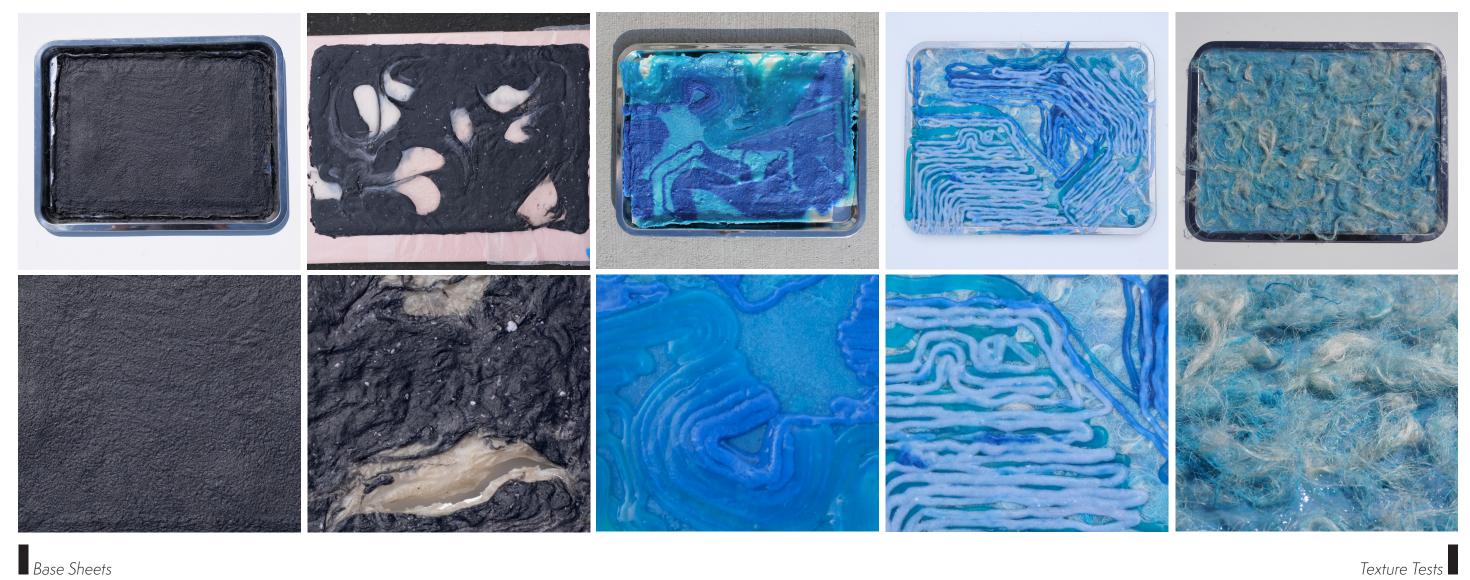
Rhino, Grasshopper, After Effects

The Basic biopolymer recipe consists of 3 dry (potato starch, arrow root and zinc oxide) and 3 wet (water, vineger and vegetable glycerine) ingredients. Natural colorants are added in calcualted quantity to achieve desired color effects.







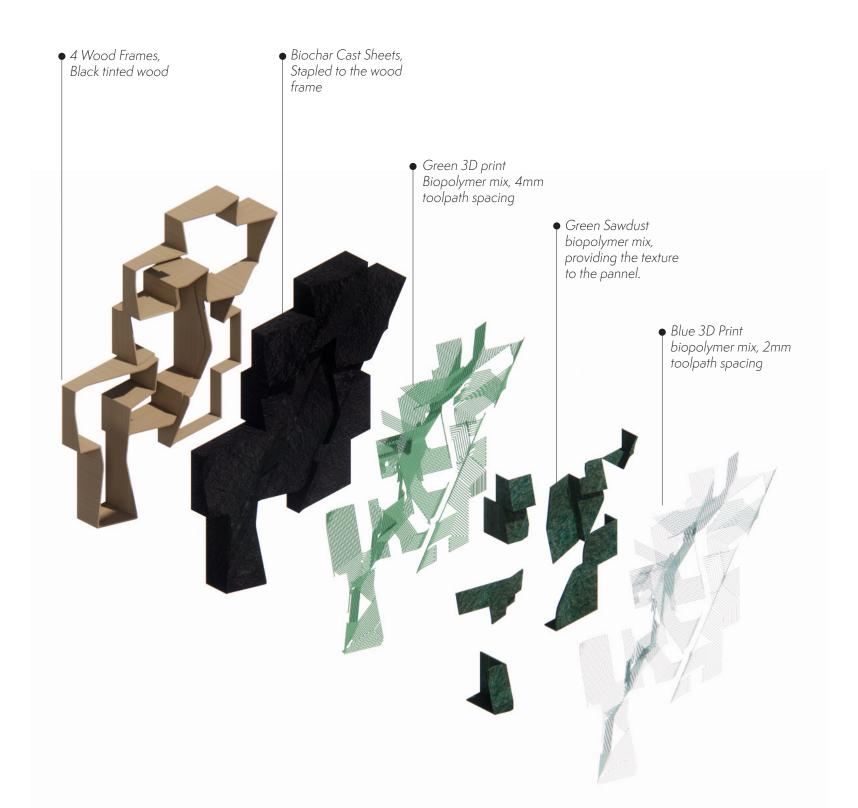


Base BioChar sheets has texture and appearerance like Leather. The whole opaque black surface is added by clear biopolymer to let the light pass through.

Testing different viscocities and toolpath offset to get controlled textures and effects on the surface to design the pannels with precise design intent of the surface finish.

Texture Tests

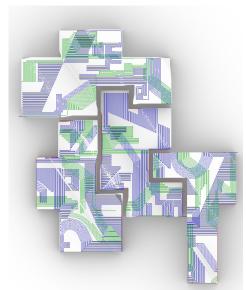
Layers of the pannels



The Pannels are designed as it combines the robotic Biopolymer printing with the manual construction of the base of the pannels. The base involves, Casting biochar sheets and wooden frames to form rigid yet 3d embose effect wall.

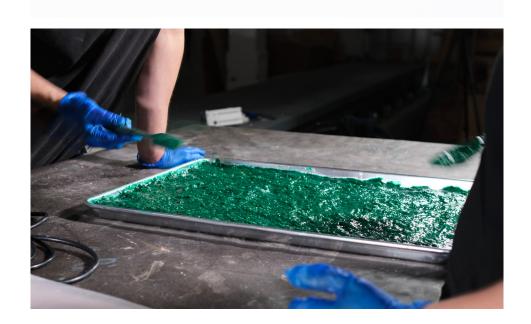


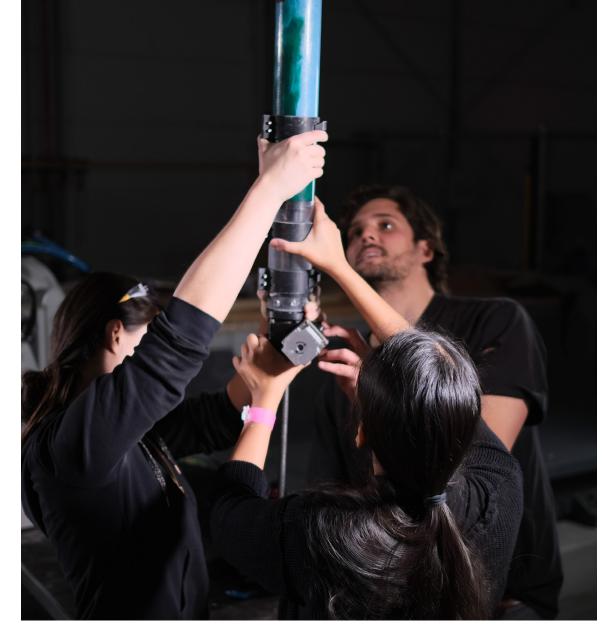


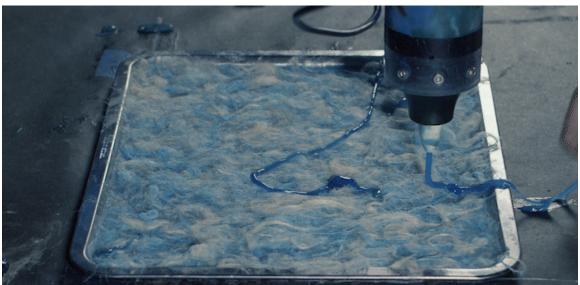














The final installation of biopolymer pannels consists of 4 actual sized 24"x18" pannels, proposed as an alternative way of building Burning Man Pavilions, that decomposes after its served its purpose.



