

ACADEMIC | PROFESSIONAL

20

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22

HOUSTON TX
GERALD D. HINES
COLLEGE OF ARCHITECTURE
AND DESIGN

PAULINA CASTRO
**COLLECTION OF
DESIGN AND
CREATIVE WORKS.**

PORTFOLIO

UNDERGRADUATE \
DESIGNING THE
UNKNOWN.

DESIGNER, INTERESTED IN
INTERIORS AND GEOMET-
RIC DESIGN. INTERESTS
INCLUDE CALLIGRAPHY,
FURNITURE, DESIGN,
FABRICATION, TECHNOLO-
GY, HIKING, GRAPHIC
DESIGN & TYPOLOGY ART.
PORTFOLIO INCLUDES
CULMINATION OF IN-
TERESTS AND CREATIVE
FIELDS IN TO MY DESIGN
WORK.

PORTFOLIO | CONTENT

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CLIENT VALUES



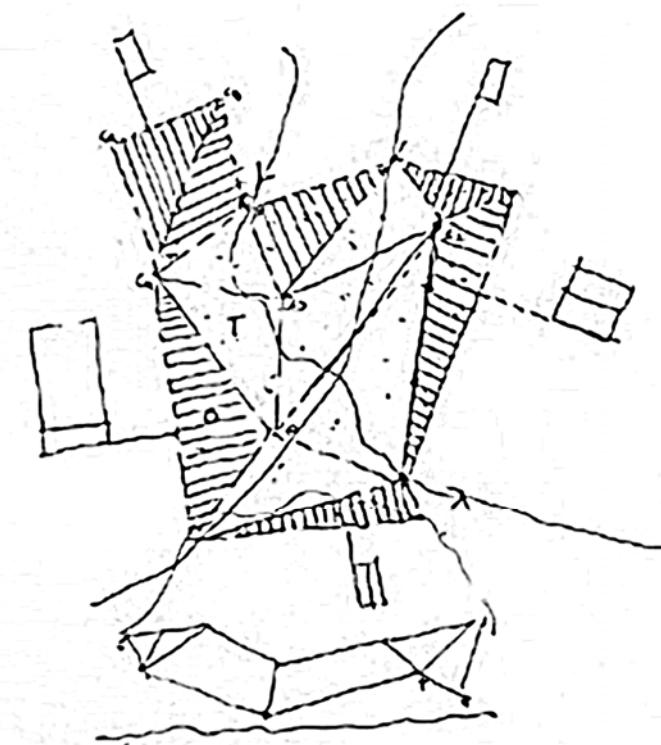
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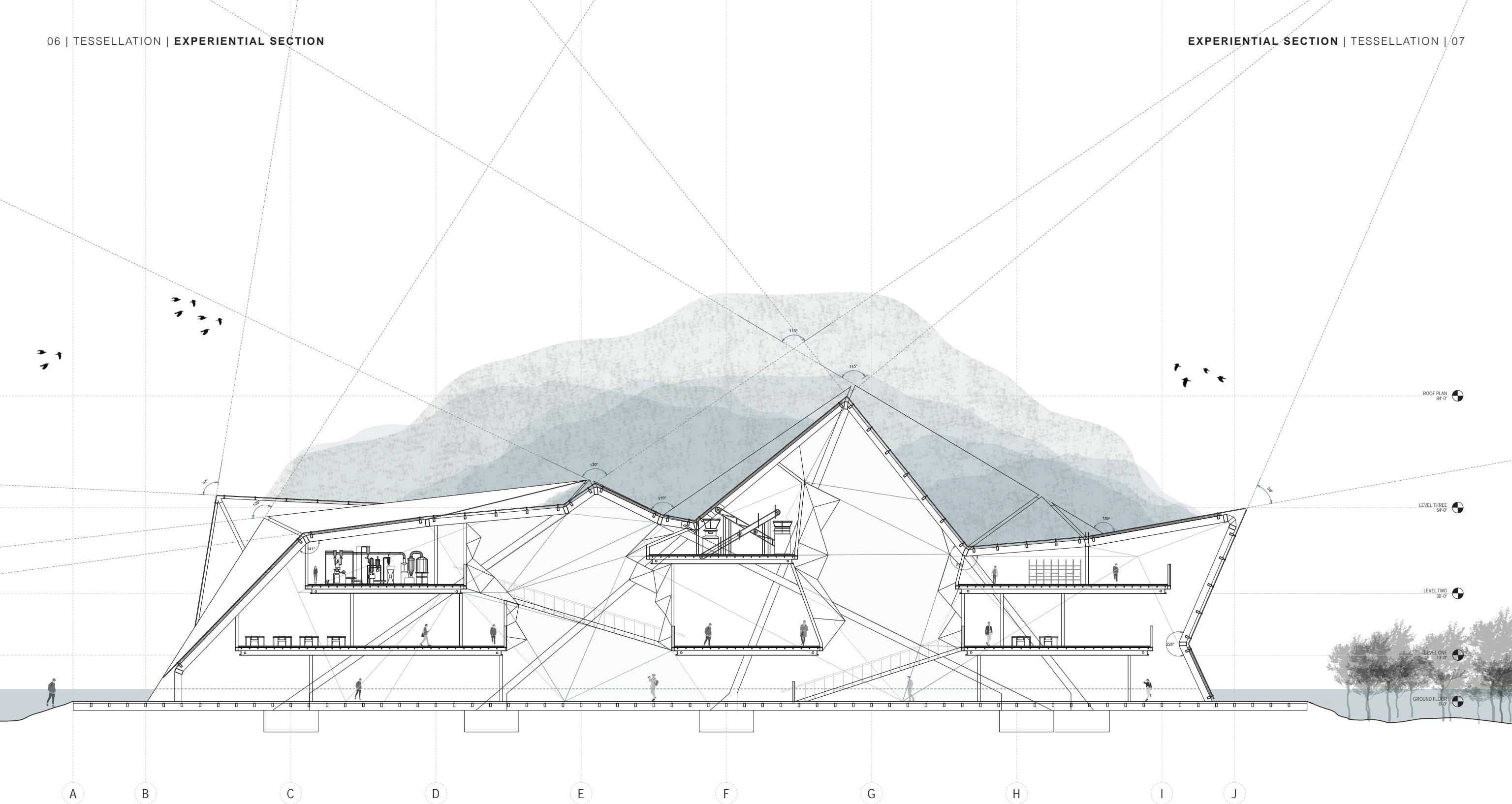
With great optimism and the ideals of the oil energy consumption's society, millions of barrels, shipped by cargos, parade through Buffalo Bayou every day. The incoming oil is transformed into a million tons of plastic waste that ironically (partially) will flow back into the Gulf, swimming in front of Brady Island. The involuntary spectators of this parade / procession are the Harrisburg / Manchester community: 2,926 residents settled in the origins of Houston. About 500 small houses coexist with the heavy oil industry (refineries, tanks, hazardous waste storages, heavy cargo of chemicals, etc.). The proposal explores the Brady Island site under a new ecological expectation: the post-oil ecological-economic community of Harrisburg. The site is to be reimagined as a fictional place between the future and glimpses of the past. The re-imagined site will be called "The Plastic Mountain." Plastic Mountain site's narrative will be an open letter to be read in the Spring of 3072 by the same group of archeologists that termed The Period of the Great Contaminations. A period that started with the industrial boom of plastics in the 1950s and ended in The Period of Material Thinking originated in the core of the petro-chemical industry with the Plastic Mountain event.

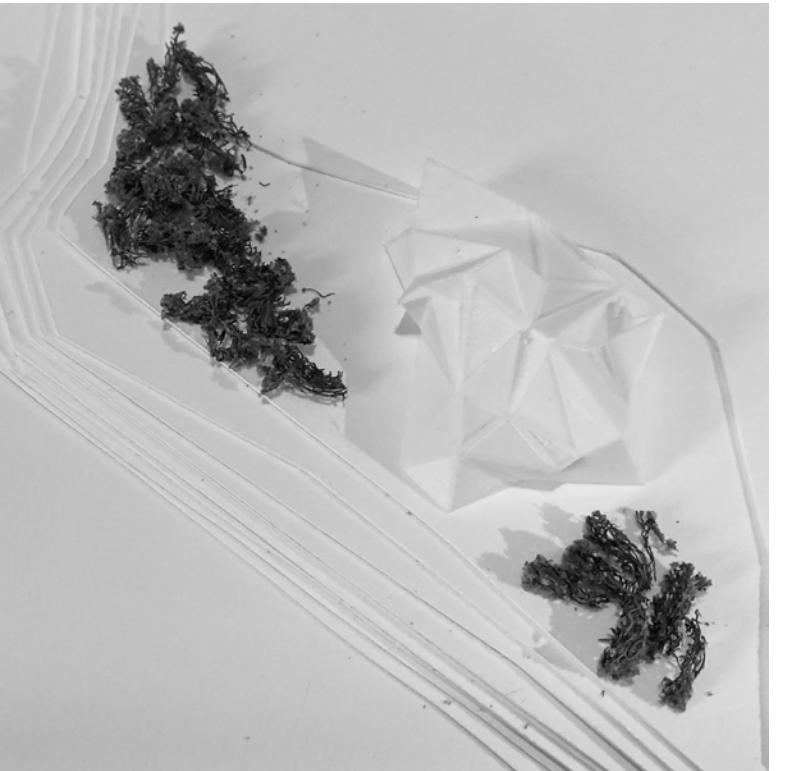
PROGRAM

Placed within Brady Island, the Plastic Recycling Center and Center of Recycled Plastic Products will be orientated to reconduct plastic waste into a new ecological-economic cycle model to support Harrison / Manchester community. The built environment will be an architectural infrastructure that collects plastics from two sources: trapped floating plastics

in Buffalo Bayou and in the Houston community. Throughout the semester, we have been dedicated to respond to a vastly overlooked and growing problem, which is the use and accumulation of plastic. In regards to the premise the "plastic mountain", the emblematic image portrays the central thesis I will be responding to, the accumulation of plastic transforming into something "new" and people existing under the "mountainous" landscape, creating an experience when entering the structure.

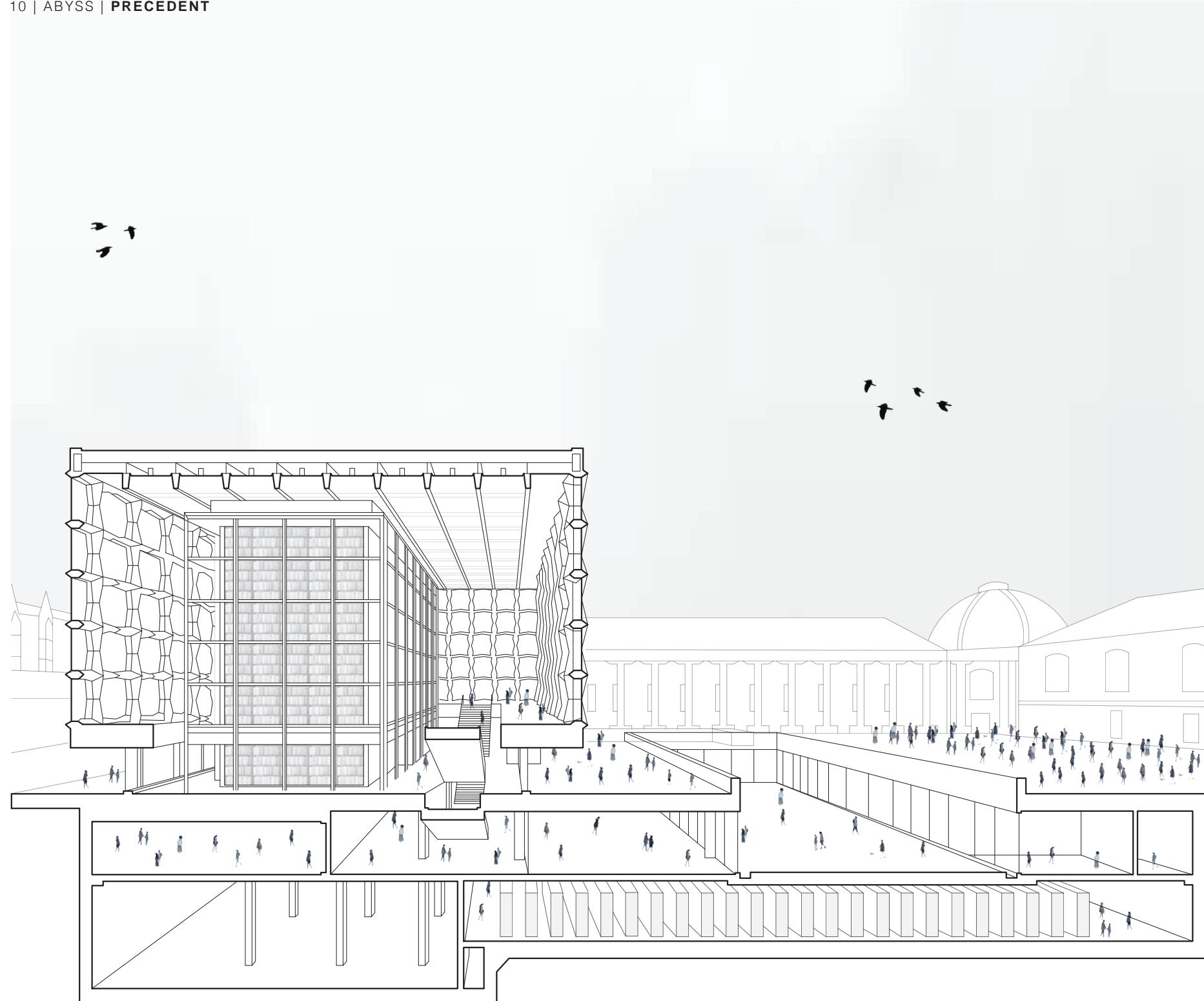




**3D PRINT**

PORTRAYS EXTERIOR GEOMETRIC FACADE, WITH CREEVASSES INDICATING LOCATION OF GLASS PANELS. THESE GLASS PANELS BRING AN EXPERIENCIAL QUALITY TO THE INTERIORS, ALLOWING THE USER TO WALK UNDER THE PROPOSED PLASTIC MOUNTAIN.



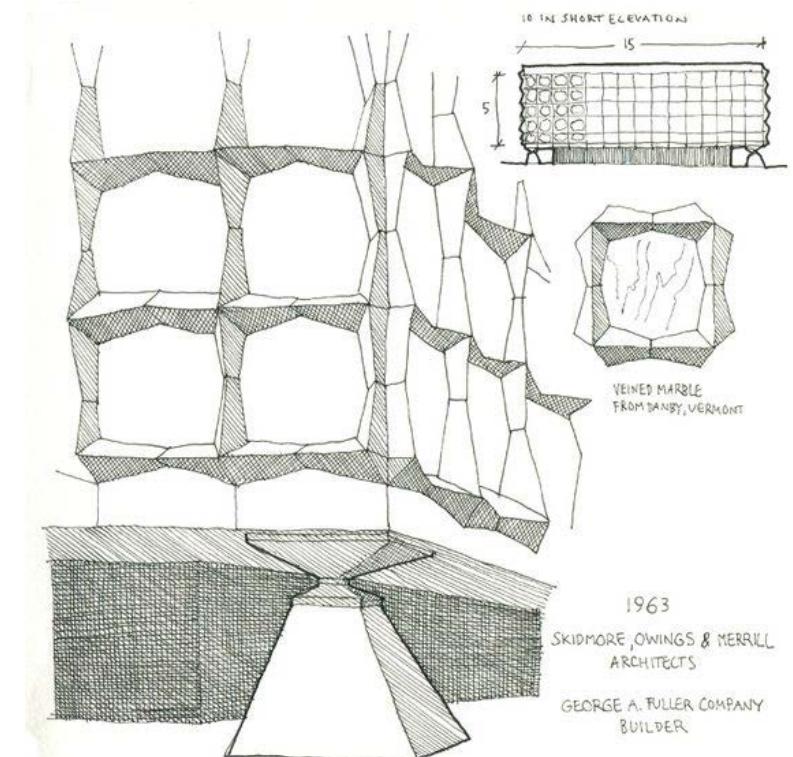
**ABYSS**

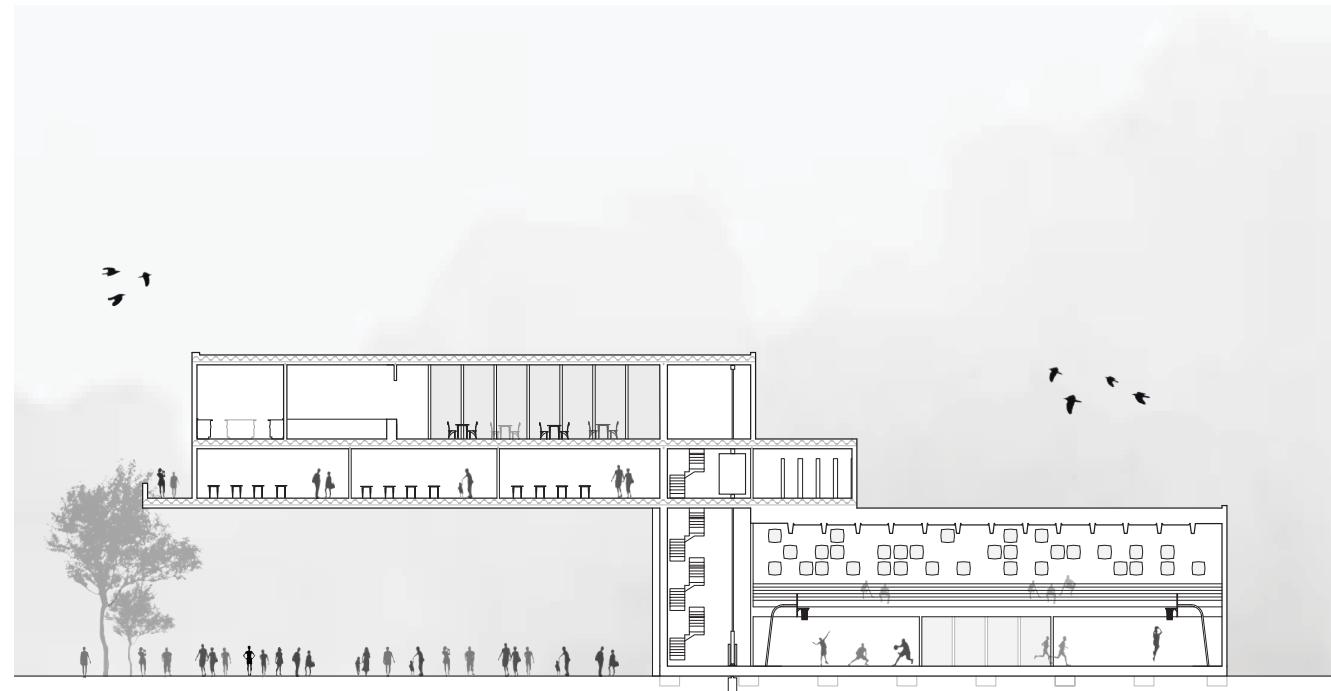
DESIGN INSPIRED AFTER STUDYING THE PRECEDENT, BEINECKE RARE BOOK AND MANUSCRIPT LIBRARY. IN REFLECTING UPON THE BOOKCASE THAT OCCUPIED THE MAIN SPACE AS THE "JEWEL" OF THE PROJECT, THE VOID IN THE HYBRID DESIGN WAS THE CENTRAL IDEA OF THE PROJECT.

ONE WAS ASKED TO INCORPORATE THE PRECEDENT STUDY AND SITE ANALYSIS TO CREATE THEIR FINAL DESIGN. DEPICTED IN THE EXTENSIVE HEIGHT OF THE MAIN VOLUME AND THE PONTIFICAL PLACEMENT OF THE BOOK TOWER WITHIN THE OPEN SPACE RESEMBLES AN ABSTRACTION OF GREEK TEMPLES. THE IDEA OF CONTAINMENT IS HIGHLIGHTED THROUGHOUT THE DESIGN OF THE LIBRARY BY CREATING THRESHOLDS TO FURTHER EMPHASIZE THE FORMAL DIVISION BETWEEN THE CONTEXT AND THE BOOKCASE.

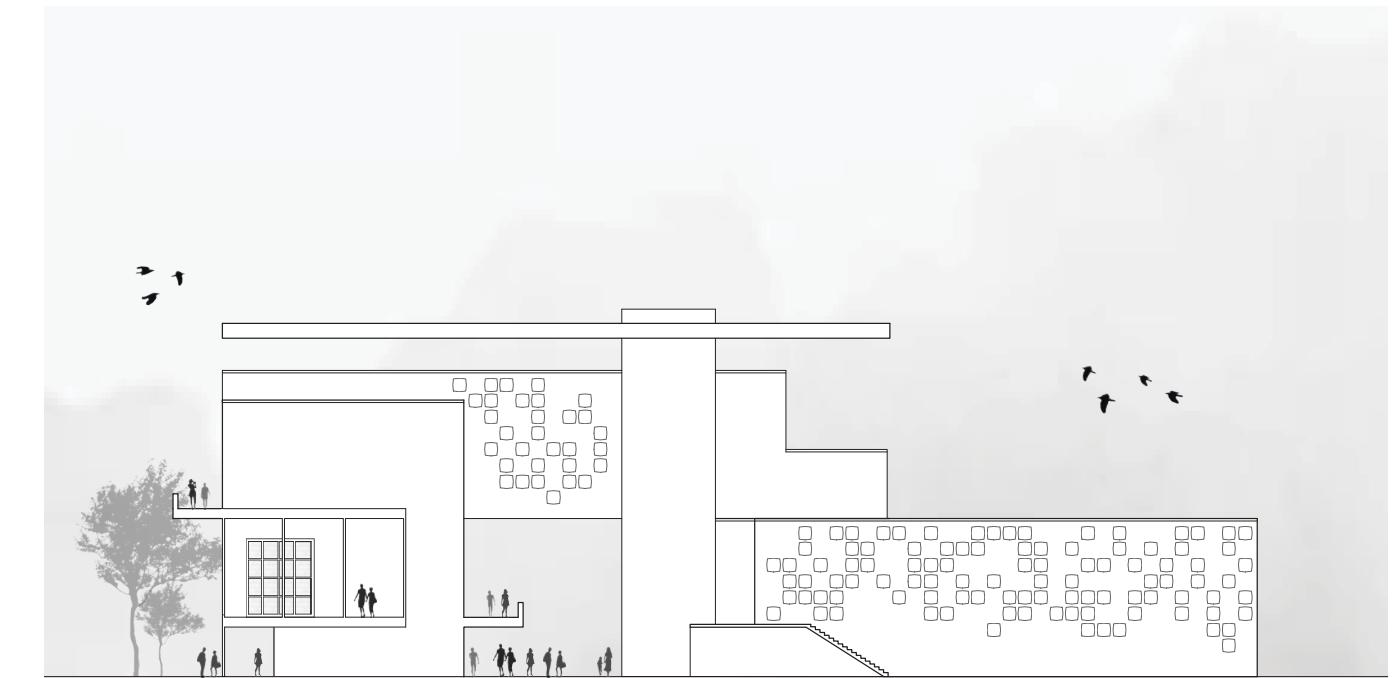


PORTRAYING CENTRAL VOID OF THE PROPOSAL. FEELING OF FALLING ONTO THE SITE. COLLECTION OF BOOKS IN THE BACKGROUND TO CONNECT THE PROJECT BACK TO THE PRECEDENT, RARE BOOK AND MANUSCRIPT LIBRARY.

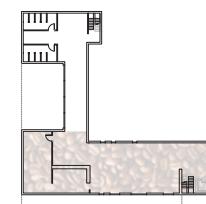
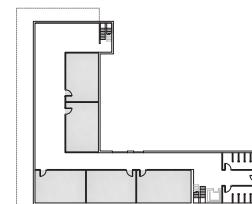
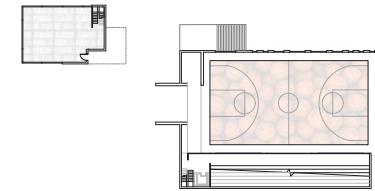
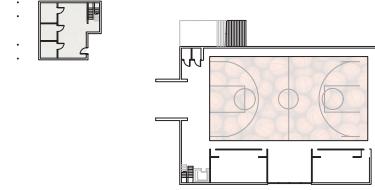




SECTION AA, CUTTING THROUGH CENTRAL VOID, CLASSROOMS, COFFEE SHOP AND BASKETBALL COURT. PROVIDES AMBIENT AREA FOR COMMUNITY TO COME TOGETHER AND EXIST WITHIN THE SITE.



ELEVATION AA, PORTRAYS EXTERIOR FACADE DETAILS EXTRUDED FROM THE PRECEDENT, BEINECKE RARE BOOK AND MANUSCRIPT LIBRARY, AS WELL AS THE CENTRAL VOID AND LIBRARY PROGRAM.



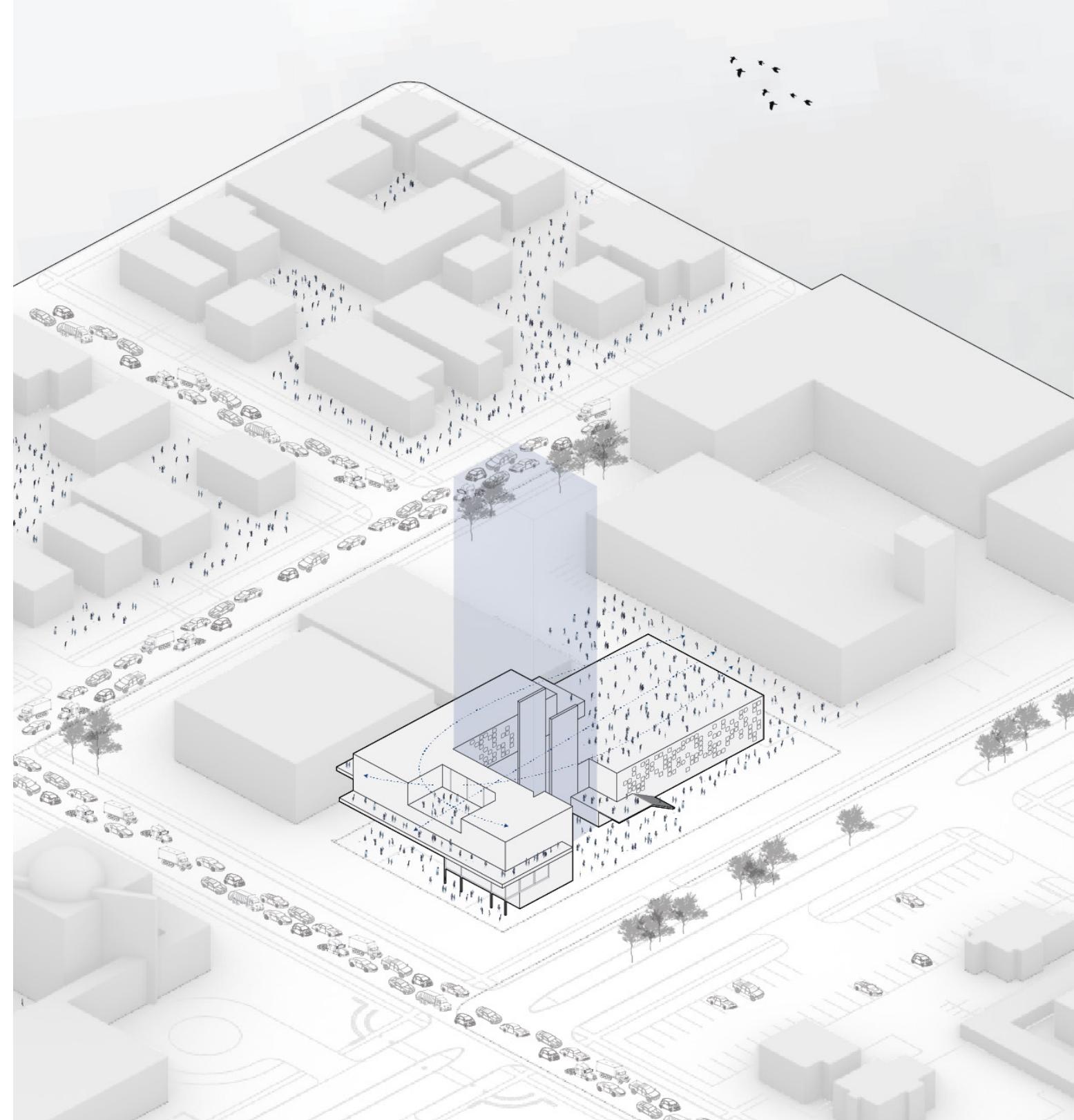
ABYSS

SPACE. CHILDREN. HUMAN EXPERIENCE. FLOOR PLANS DIVIDED THE PROGRAM IN TERMS OF ACCESSIBILITY.

LEVEL ONE INCLUDES BASKETBALL COURT/ OFFICES/LOBBY. LEVEL TWO BLEACHERS/LIBRARY.

LEVEL THREE INCLUDES CLASSROOM SPACES/ RESTROOMS. LEVEL FOUR COFFEE SHOP/RESTROOMS WITH EXTERIOR ACCESS ROOFTOP/BALCONIES.

AXONOMETRIC ON THE RIGHT INCLUDES CIRCULATION AROUND THE PROPOSAL, AS WELL AS CENTRAL VOID OF THE PROPOSAL.



**HERITAGE**

27 SEPTEMBER 2021

DYED COWHIDE AND WHITE OAK.
CRAFTED WITH USE OF CNC ROUTING
JIGS, PRODUCING THEM IN SMALL
BATCHES WHILE CONTINUING THE
FEELING OF BESPOKE AND
HANDCRAFTED DESIGN PIECES.

**CONCURA**

31 JULY 2021

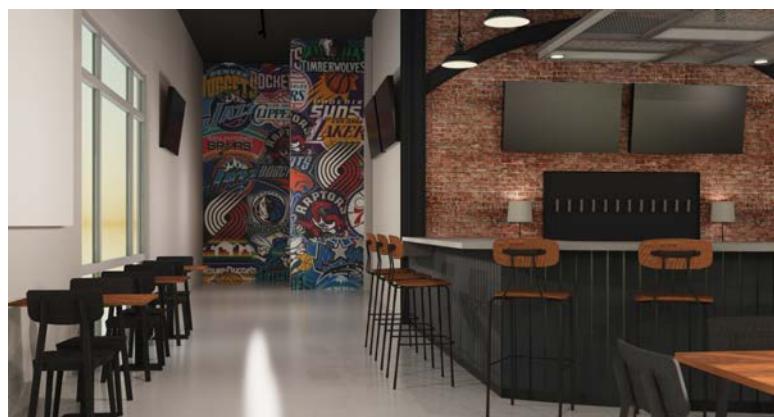
MOIRE EFFECT INSPIRED SHELVING
UNIT. SET IN FRONT OF A MIRROR TO
HEIGHTEN EFFECT, BEAM LOCATION
AND DIAMETER DETERMINED BY A
RANDOMIZED ALGORITHM WRITTEN
IN HOUSE.

**CENAR**

07 AUGUST 2021

RIFT SAWN SOUTHERN WHITE OAK.
TABLETOP FEATURES COMPLEMENT
SOLID STEEL BASES, WARMING UP
THE INTERIOR KITCHEN SPACE.



**CALI BREWS**

27 JULY 2021

INTERESTED IN PORTRAYING THE MAJOR SPORTS TEAMS OF THE STATE, CLIENT WAS INTERESTED IN INCORPORATING A MODERNISTIC FEEL INTO THE SPACE, WITH VINTAGE/INDUSTRIAL ACCENTS. RESTUARANT CONTINUES UNDER CONSTRUCTION AS OF 02 FEBRUARY 2022.

RENDERINGS PRODUCED THROUGH RHINO/THEA RENDERING EXTENSION, CONSTRUCTION DRAFTING DRAWINGS PRODUCED THROUGH REVIT 2021.

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THANK YOU
20. 21. 22.

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