



RAYMOND JAMES GROSS
A R C H I T E C T U R E
P O R T F O L I O



RAYMOND JAMES GROSS

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EDUCATION

- 2015 - 2019 + **College of Charleston** | Charleston, SC
Bachelors of Arts Historic Preservation & Community Planning
- 2017 + **Architectural Institute of Prague** | Prague, CZ
Architecture Study Abroad Program
Semester focused on Serpentine Pavillion Competition, designed a pavillion for the school campus
- 2019 - 2022 + **Clemson University** | Clemson, SC
Masters of Architecture (in progress)

EXPERIENCE

- 2014-2015 + **Donald A. Garderner Architects** | Greenville, SC
Internship
Residential Firm, worked on customer specified changes to plans and elevation. Created and edited structural sections and basic electrical plans.
- 2019 + **Charleston Civic Design Center** | Charleston, SC
Internship
Worked primarily on the "People Pedal Plan", which focuses on making the city of Charleston bicycle friendly. Designed bike lanes, "sharrows", and paths. Also digitally modeled downtown Charleston.
- 2021 + **SGA | Normour Wright Design** | Charleston, SC
Internship
Worked on CCSD schools, family living apartments, assisted Living apartments, and renovation projects. Use primarily Revit and Autocad to model, alter, and correct designs. Also measured on site for renovation projects.
- 2021 + **BEAU CLOWNEY ARCHITECTS** | Charleston, SC
Internship
Worked on residential homes and vacation homes primarily located in the Charleston area. Used Vectorworks, Microsoft programs, and photoshop.

SKILLS

- DESIGN Revit, AutoCAD, Sketch-Up, Rhino, Grasshopper, Photoshop, Vectorworks, Illustrator, InDesign, Lumion, Enscape, Vray
- MEDIA Photography, Social Media Management

OTHER EXPERIENCE

- 2015-2016 + **ACS SECURITY** | Los Angeles, CA
Sales Representative
- 2018-2019 + **THE BICYCLE SHOPPE** | Charleston, SC
Junior Mechanic
- 2020 + **CEEMI AGENCY DIGITAL MARKETING** | Los Angeles, CA
Social Media Chair



C O N T E N T S

STUDIO PROJECTS

01 + **CENTURY CORNER**
CHARLESTON - CLEMSON STUDIO X SPRING 20

02 + **CLEMSON DESIGN CENTER**
CHARLESTON - CLEMSON STUDIO U SPRING 2019

03 + **URBAN OASIS**
TULSA, OK - CLEMSON STUDIO FALL 2020

04 + **HAYWOOD STREET TEXTILE SCHOOL**
CLEMSON UNIVERSITY STUDIO SPRING 2019

05 + **UNITY CHAPEL**
CLEMSON UNIVERSITY STUDIO FALL 2019

COURSE PROJECTS

+ **BOOLEAN DESIGN**
CLEMSON UNIVERSITY VISUALIZATION II SPRING 2.020

+ **SECTION DRAWING**
CLEMSON UNIVERSITY VISUALIZATION I FALL 2019

+ **ALAMILLO BRIDGE MODEL**
CLEMSON UNIVERSITY STRUCTURES I FALL 2019

+ **LEE III REFLECTED CEILING & PLAN**
CLEMSON UNIVERSITY VISUALIZATION I FALL 2019

PERSONAL WORK

+ **"THREE BROTHERS"**
PERSONAL WORK - DRAWING FALL 2018

+ **"FRANCIS MARION FOREST"**
PERSONAL WORK - DRAWING SPRING 2018

+ **"MAN'S BEST FRIEND"**
PERSONAL WORK - DRAWING SUMMER 2019

+ **"TIMEOUT"**
PERSONAL WORK - DRAWING SPRING 2020

+ **"LOST BUT FOUND"**
PERSONAL WORK - DRAWING FALL 2019

+ **GRUNEWALD, GERMANY**
PERSONAL WORK - PHOTOGRAPHY SPRING 2018

+ **DANCING HOUSE - PRAGUE**
PERSONAL WORK - PHOTOGRAPHY SPRING 2018

01 CENTURY CORNER

CCAC DESIGN STUDIO X

SPRING 2021





ASHLEY AVE.

WENTWORTH ST.

ASHLEY AVENUE



THIS STUDIO WAS TAUGHT IN CHARLESTON AT THE CLEMSON DESIGN CENTER IN CHARLESTON, SOUTH CAROLINA. THIS PROJECT WAS AN ADAPTIVE REUSE OF A OLD GAS STATION BUILT-IN 1929. THE TOP IMAGE SHOWS THE FILLING STATION DURING ITS GOLDEN AGE WHILE THE BOTTOM IMAGE SHOWS ITS ABANDONED RUINS TODAY.

PROGRAMMING:

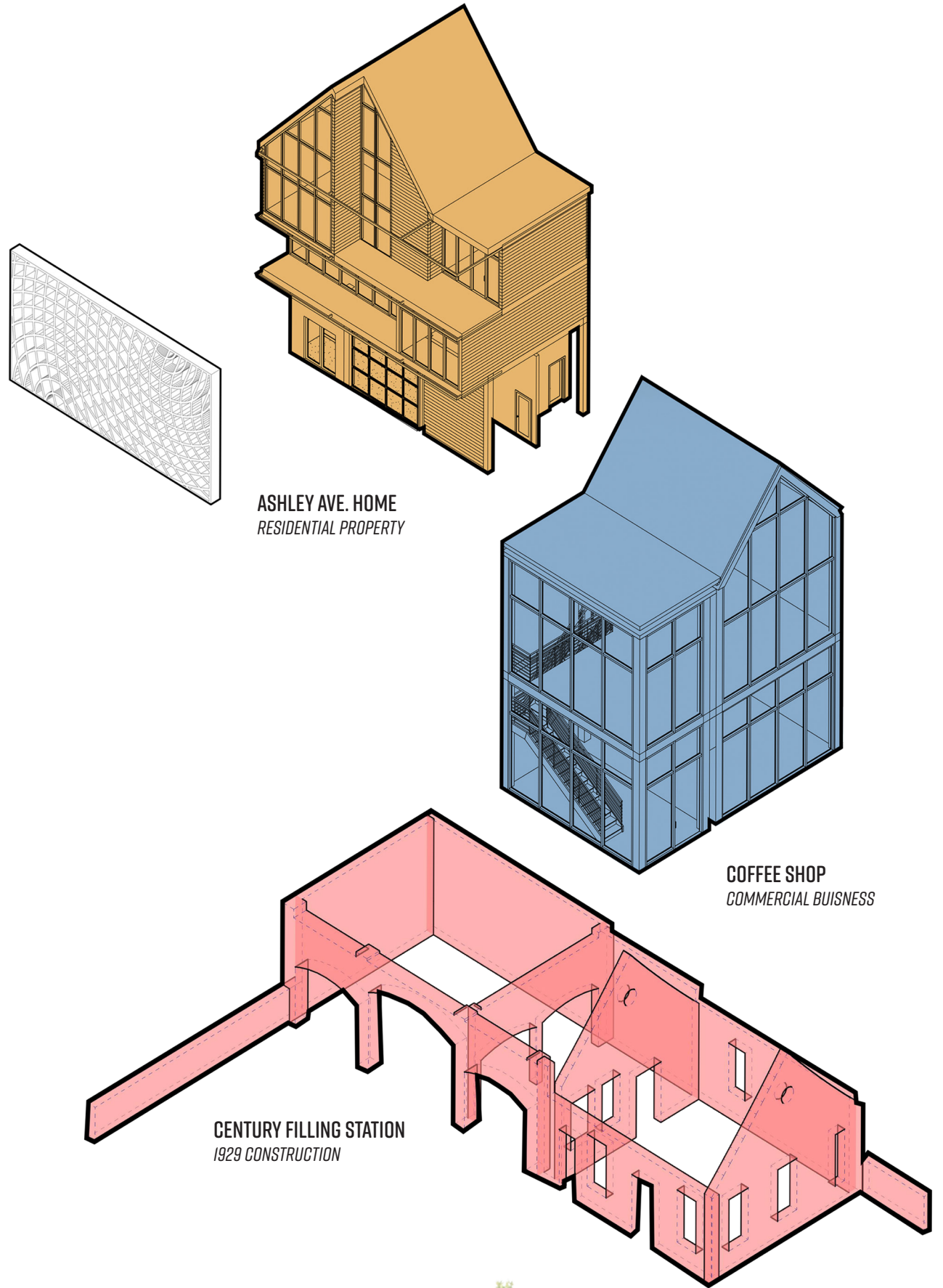
THIS ADAPTIVE REUSE STUDIO ALLOWED US TO DECIDE IF THE STRUCTURE WOULD BE RESIDENTIAL (SHOWN IN BLUE), COMMERCIAL, OR MIXED USE. I CHOSE MIXED-USE BECAUSE I FELT A COMMERCIAL PROPERTY COULD USE THE CORNER LOT EFFECTIVELY TO BRING IN CUSTOMERS. THE BACK PORTION OF THE STRUCTURE (SHOWN IN YELLOW) IS THE RESIDENTIAL PORTION OF THE STRUCTURE. I CHOSE THIS LAYOUT BECAUSE IT GIVES MORE PRIVACY AND INDEPENDENCE IF THE HOUSE IS TOWARDS THE BACK AWAY FROM THE BUSY CORNER.

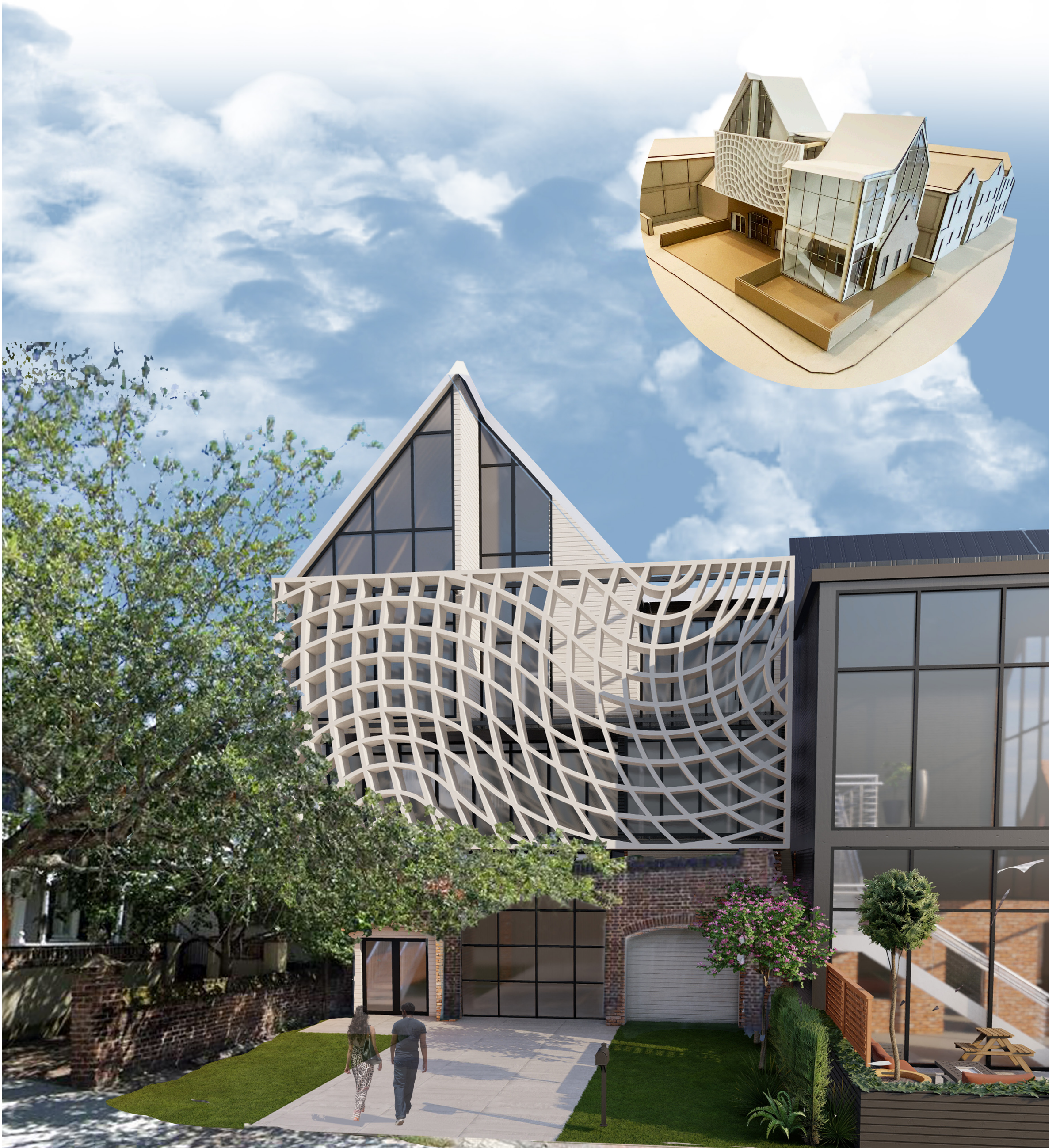


THE RESIDENTIAL SPACE HAS A DECORATIVE FACADE TO CREATE PRIVACY AND ALLOW LIGHT INSIDE, IT IS INFLUENCED BY THE SWEETGRASS BASKET WEAVING WHICH IS ICONIC IN THE CHARLESTON AREA.



THE COMMERCIAL SPACE IS MADE PRIMARILY OF STEEL TO MATCH THE CLASSIC PHILLIP SIMON'S IRONWORK SPREAD THROUGHOUT THE CITY/





02 CLEMSON DESIGN CENTER CHARLESTON

CDCC DESIGN STUDIO U
FALL 2021

CLEMSON DESIGN CENTER IN CHARLESTON

CLEMSON UNIVERSITY'S SCHOOL OF ARCHITECTURE HAS MULTIPLE SATELLITE CAMPUSES FOR STUDENTS TO LEARN ARCHITECTURE IN A NEW SETTING. ONE OF THESE PROGRAMS IS THE CLEMSON DESIGN CENTER IN CHARLESTON (CCDC). IN CHARLESTON, STUDENTS TAKE STUDIOS AND ELECTIVE COURSES BASED ON THE ARCHITECTURE IN THE CITY OF CHARLESTON. THIS AREA HAS MANY UNIQUE CHALLENGES SUCH AS FLOODING, EARTHQUAKES, HISTORIC PRESERVATION, AND LOCAL DESIGN BOARDS, JUST TO NAME A FEW.

THIS PROGRAM HAS BEEN RUNNING SINCE THE 1980'S BY RENTING SPACES AROUND DOWNTOWN CHARLESTON. RECENTLY CLEMSON HAS BEEN TRYING TO BUILD A PERMANENT BUILDING FOR THE DESIGN SCHOOL. THE UNIVERSITY'S LAST ATTEMPT WAS APPROVED BY THE CITY'S DESIGN BOARD AND HISTORIC PRESERVATION GROUPS BUT OUTRAGED THE MEDIA. MANY FELT THE DESIGN DID NOT FIT CHARLESTON'S ARCHITECTURAL STYLE. SINCE THE ORIGINAL DESIGN RECEIVED SO MUCH BACKLASH CLEMSON PULLED OUT OF THE PROJECT.

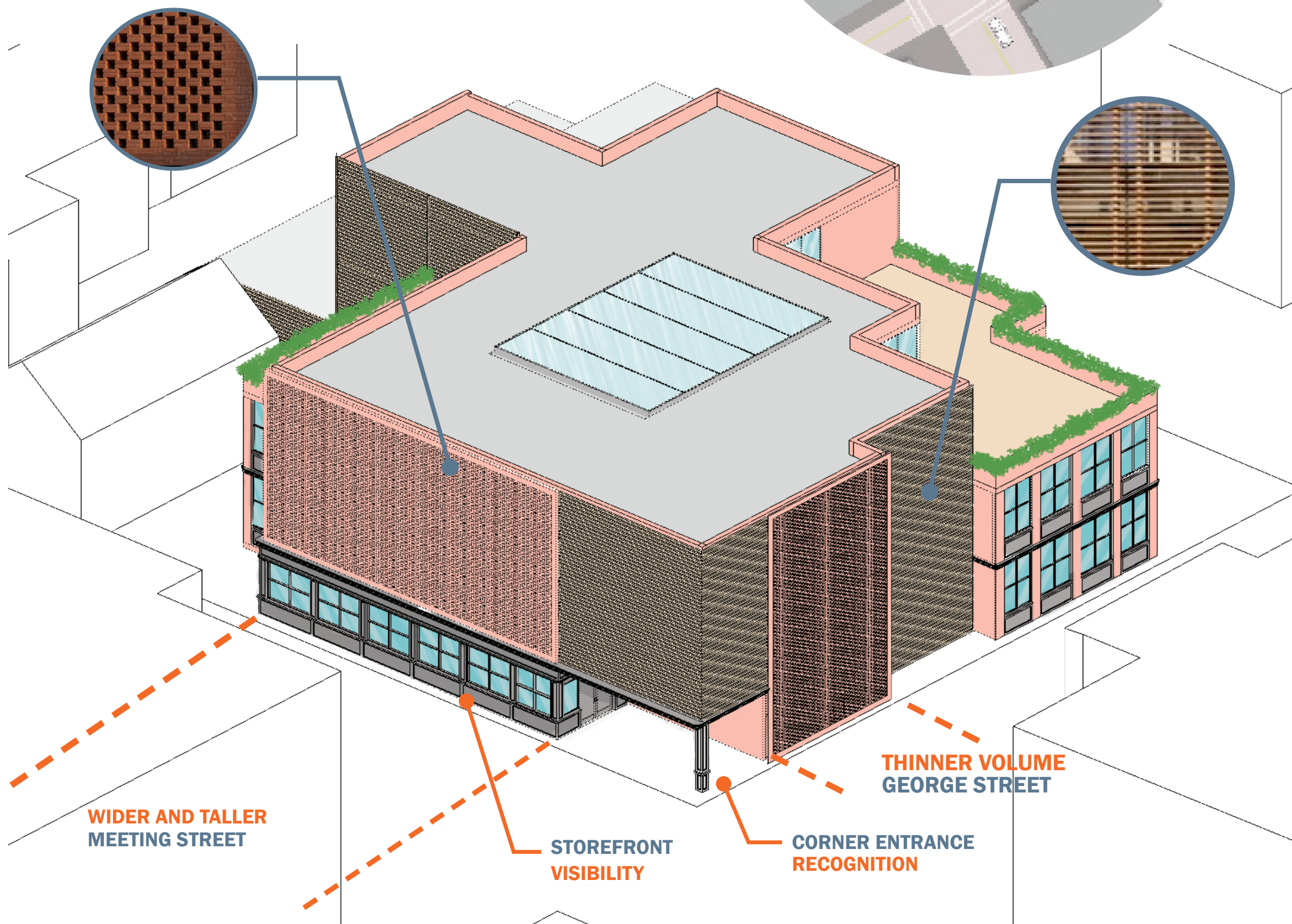
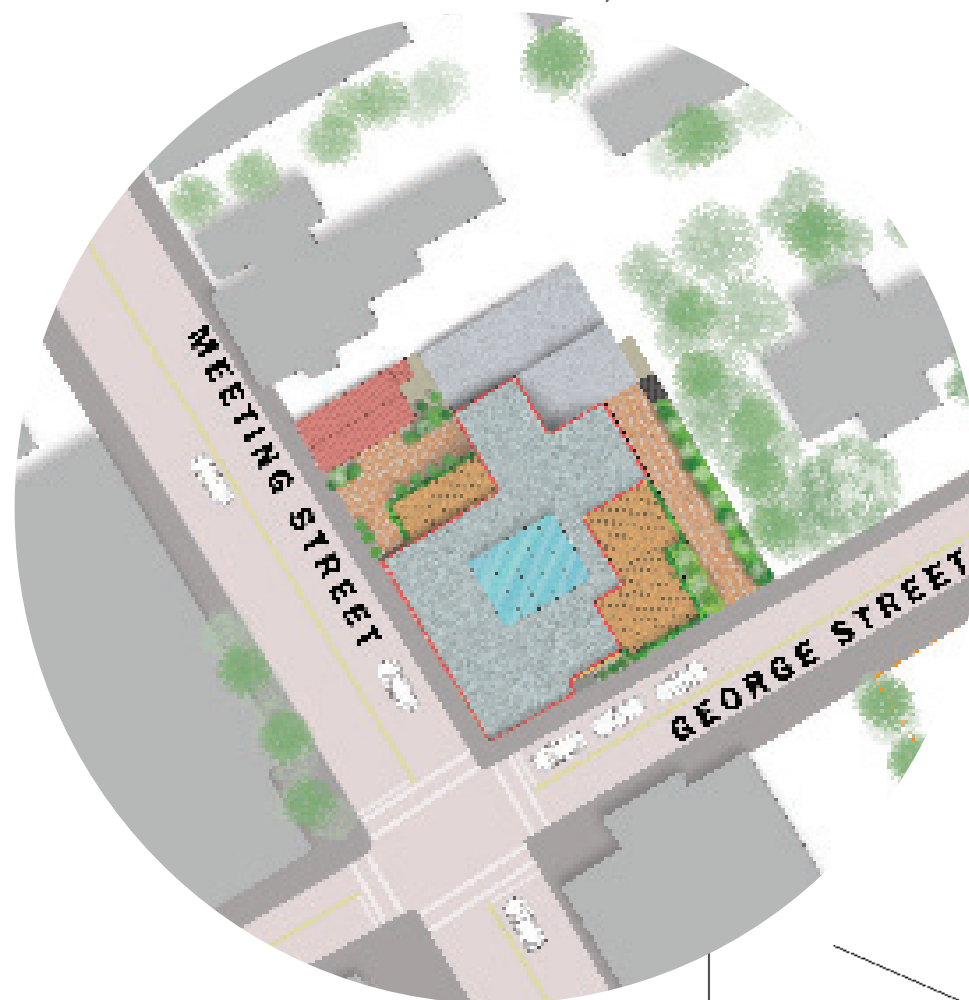


DESIGNING A SCHOOL

FOR THIS STUDIO PROJECT, WE WERE TASKED WITH DESIGNING A NEW CLEMSON DESIGN CENTER ON THE ORIGINAL LOT. THIS WAS ALL BACKED WITH RESEARCH ABOUT THE FAILURES FROM THE PAST ATTEMPTS TO BUILD. THIS PROJECT ALSO INCLUDED EXTENSIVE RESEARCH ON CHARLESTON'S VERNACULAR ARCHITECTURE, SCHOOL PROGRAMMING, AND DESIGN BASED ON PEDAGOGY.

THE EXTERIOR OF THE BUILDING USES EXAMPLES OF CHARLESTON'S VERNACULAR ARCHITECTURE. THIS CAN BE SEEN FROM THE BRICK AND WOOD MATERIALS USED, THE STOREFRONT ENTRANCE, AND THE STAGGERING VOLUMES. THIS DESIGN WAS INFLUENCED HEAVILY BY THE SITE CONDITIONS. MEETING STREET (FRONT SIDE) IS VERY COMMERCIALIZED WITH LARGE TALL AND WIDE BUILDINGS, WHILE GEORGE STREET IS THE BEGINNING OF A HISTORIC NEIGHBORHOOD FULL OF SHORT AND SKINNY SINGLE HOUSES. IN THIS DESIGN, THE VOLUMES FACING MEETING STREET ARE TALLER AND WIDER, WHILE THE SIDE FACING GEORGE STREET IS SHORTER AND SKINNIER TO MATCH THE CONTEXT CONDITION.

SITE: 80 ASHLEY AVE. CHARLESTON, SC



WIDER AND TALLER
MEETING STREET

STOREFRONT
VISIBILITY

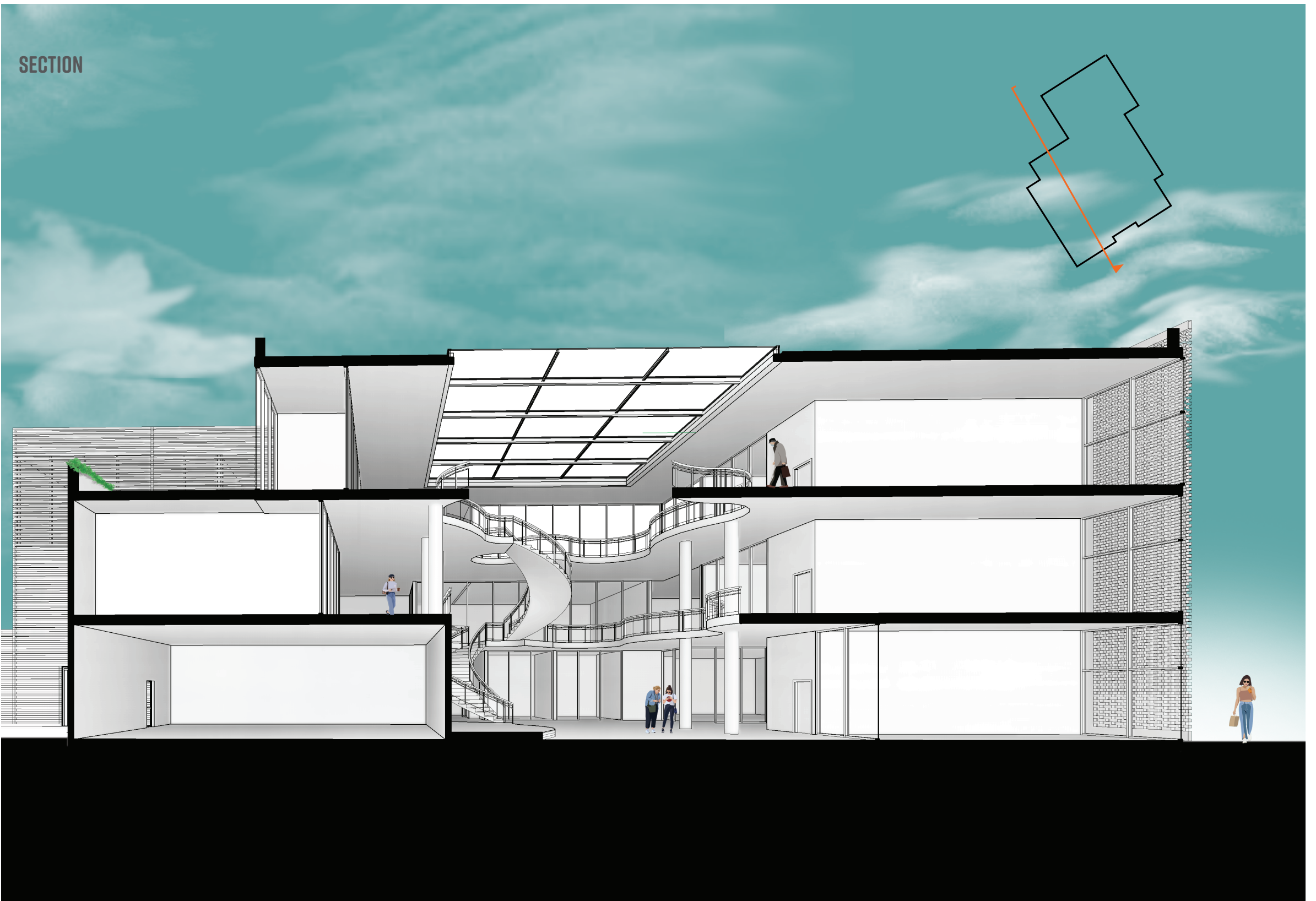
CORNER ENTRANCE
RECOGNITION

THINNER VOLUME
GEORGE STREET

INTERIOR SCENE



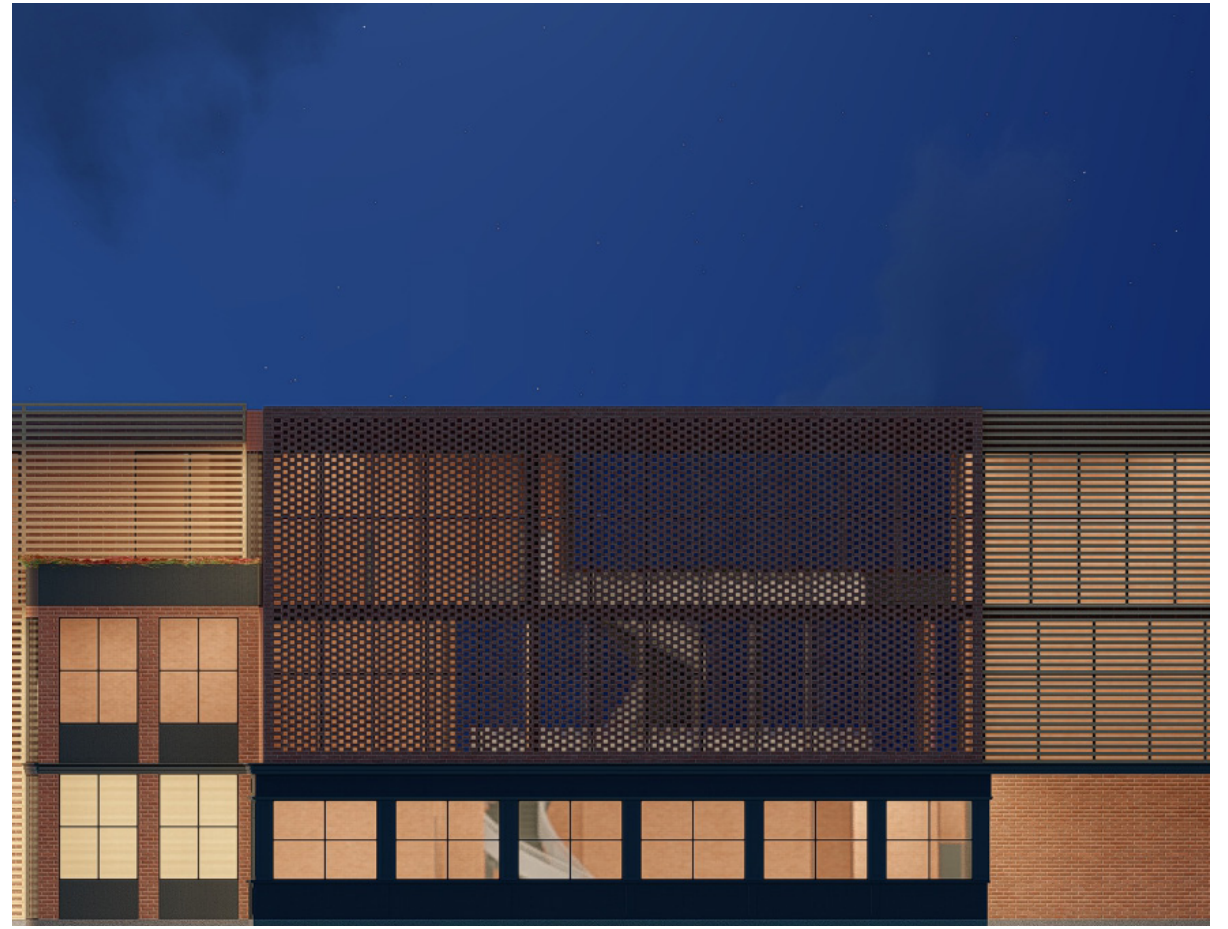
SECTION



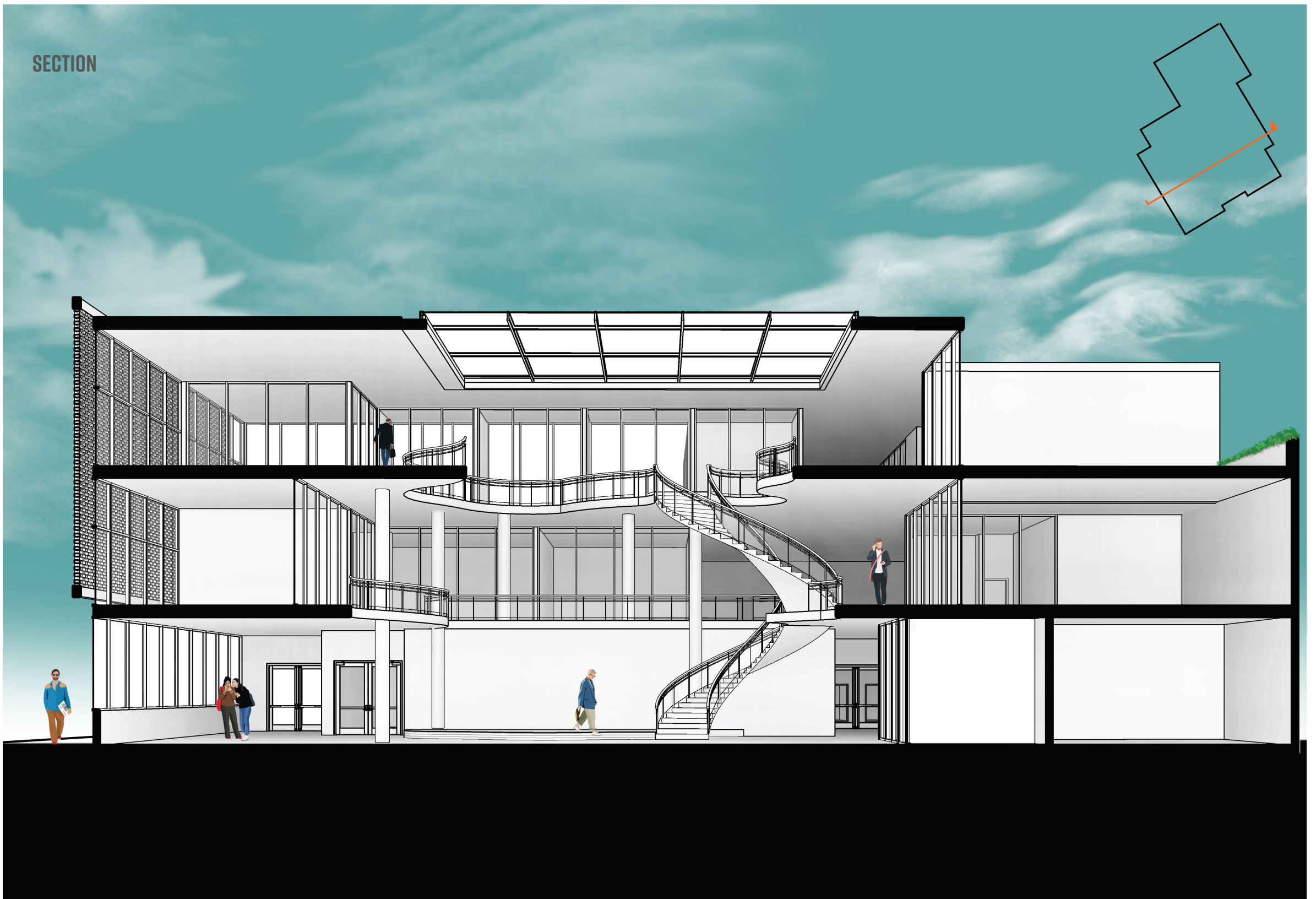
PHYSICAL MODEL



TRANSPARENT FACADE



SECTION









03 URBAN OASIS: HOME FOR FEMALE EX-OFFENDERS

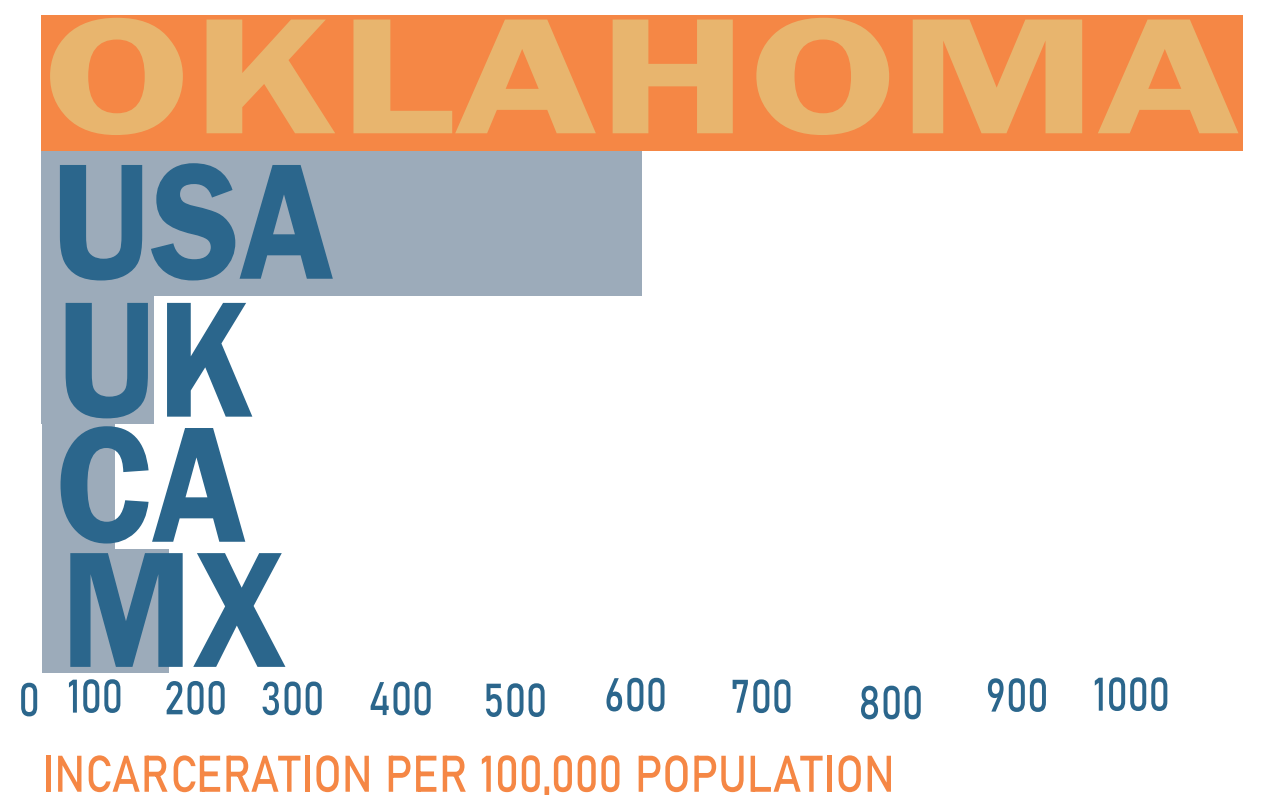
AIA COTE TEN STUDENT COMPETITION

FALL 2020

COTE TEN STUDENT COMPETITION:

THIS STUDIO FOCUSED ON THE AIA COTE TEN STUDENT COMPETITION. THESE COMPETITION REQUIREMENTS FOCUS ON INTEGRATING HEALTH, SUSTAINABILITY, AND EQUITY. FALL 2020'S COMPETITION WAS BASED ON A SPECIFIC USER IN GROUPS AROUND THE COUNTRY. THIS PROJECT IS ADDRESSING HOUSING FOR FEMALE EX-OFFENDERS IN TULSA, OKLAHOMA. THIS STATE HAS AN UNPRECEDENTED NUMBER OF FEMALE INCARCERATIONS COMPARED TO THE REST OF THE WORLD. THE OBJECTIVE WAS TO DESIGN HOUSING THAT CAN HELP FEMALE EX-OFFENDERS BE REINTRODUCED TO PUBLIC LIFE AFTER RELEASE.

CURRENT INCARATION SITUATION IN OKLAHOMA



PROGRAMMING FOR SUCCESS

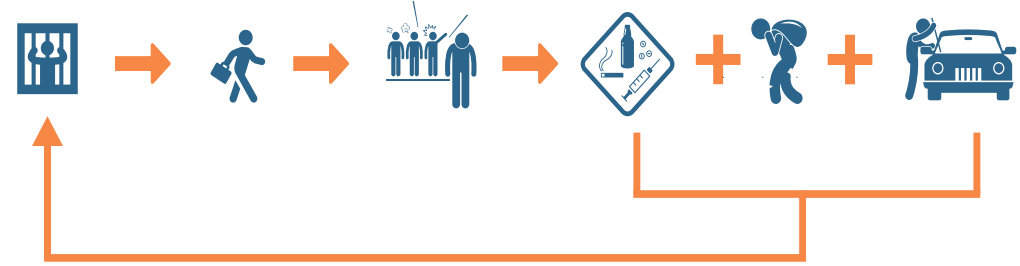
CREATING A HOME SPECIFICALLY FOR FEMALE EX-OFFENDERS WAS QUITE A CHALLENGE. THE DESIGN NEEDED TO AID THE WOMEN BY GIVING AID AND OPPORTUNITIES. AFTER RESEARCHING AND READING MANY ACCOUNTS FROM FEMALE EX-OFFENDERS, IT WAS CLEAR THAT FOR MOST CASES EXTRA SUPPORT WAS NEEDED RIGHT AFTER BEING RELEASED FROM INCARCERATION. THIS IS WHERE THE URBAN OASIS PROGRAM WOULD STEP IN BY PROVIDING EDUCATION, EMPLOYMENT, ATTENTION TO MENTAL HEALTH, AND HOUSING ALL IN ONE BUILDING.

SITE CONDITION

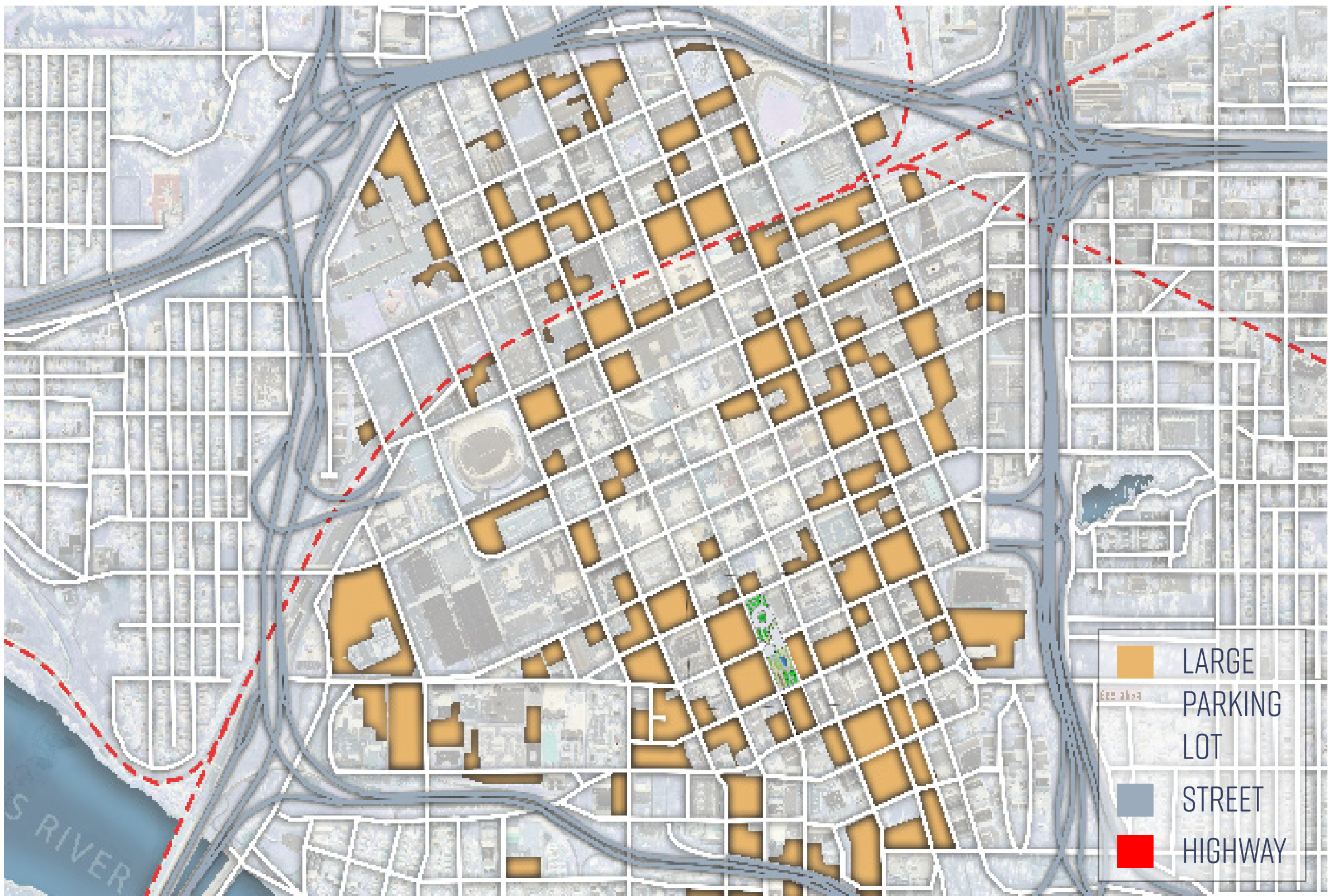
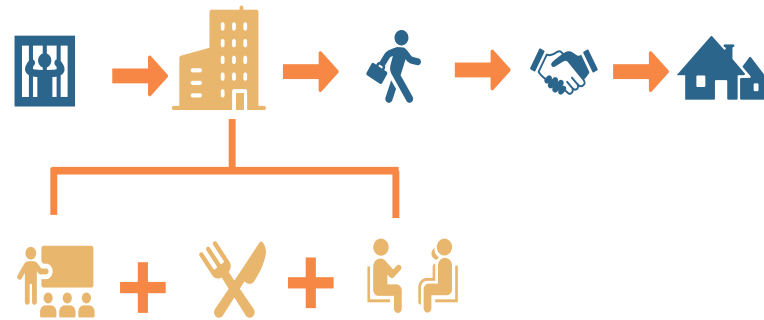
AFTER TAKING A LOOK AT DOWNTOWN TULSA, IT WAS EVIDENT THAT THE CITY HAD AN ABUNDANCE OF LARGE PARKING LOTS. IT WAS DECIDED TO TAKE TWO PARKING LOTS TO CREATE A CAMPUS TO HOUSE AND PROVIDE OPPORTUNITIES TO FEMALE EX-OFFENDERS AND TO BE USED BY THE PUBLIC.

EXISTING SITUATION VS URBAN OASIS PLAN

Existing Situation



Urban Oasis Program





URBAN OASIS CAMPUS

ADD HOUSINGS ON TOP

ADD PEDSTRAIN BRIDGE

OPEN UP THE VOLUMES

DIVIDE SITES INTO 8 PIECES

SOLID VS VOID CIRCLES

EMPTY PARKING LOTS



76 COMMUNAL DORMS: 265 SQFT/UNIT

20 PUBLIC APARTMENTS: 679 SQFT/UNIT

COMMUNAL HOUSING
CIRCULATION + STRUCTURE TRUSSES

INDIVIDUAL APARTMENTS
CIRCULATION + STRUCTURE TRUSSES

COMMUNAL HOUSING TYP. FLOOR PLAN

INDIVIDUAL APARTMENTS TYP. FLOOR PLAN

COMMUNAL HOUSING STRUCTURE

INDIVIDUAL APARTMENTS STRUCTURE

5 MEDICAL EXAM ROOMS: 869 SQFT

4 COUNSELLING ROOMS: 536 SQFT

1 VISITOR SPACE: 485 SQFT

3 CLASSROOMS: 1488 SQFT

GREEN SPACE: 27000 SQFT

PUBLIC WALKING RAMP

3 LOUNGE AREA: 7272 SQFT

RESTAURANT AREA: 2033 SQFT

GROCERY STORE AREA: 5148 SQFT



DESIGN FOR EQUITABLE COMMUNITY

Sitting next to the Tulsa Community College, Urban Oasis aims to provide a lounge space for the students as well as the residents that live on site. Its green initiative hopes to provide a refuge for downtown communities.

DESIGN FOR DISCOVERY

Designing this project in a very typical American city scape makes one realize just how few changes have been brought to the urban design within the American cities. In the hope of this project can opens discussion about how to design greener and healthier cities in the future.



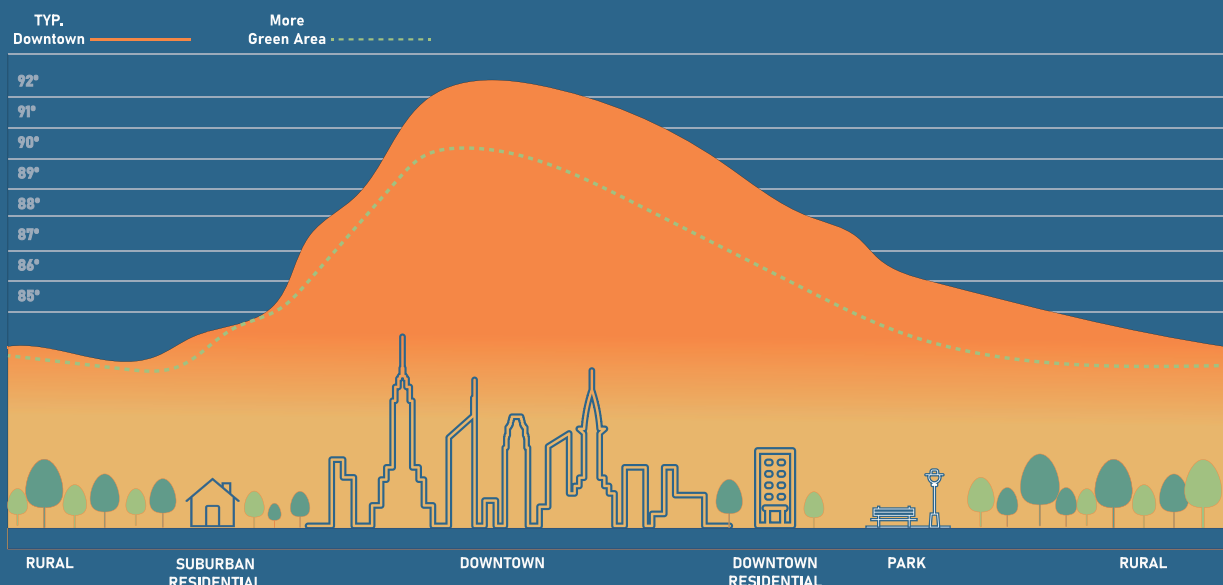
WATER TANK

DESIGN FOR WELL BEING

Urban Oasis includes a health center for residents. The most common charges for female ex-offenders are drug related. This program works on rehabilitation for drug abuse. The campus use of the ground level parks and the land bridge are an example of biophilic design, which promotes occupant connectivity to the natural environment through the use of direct nature and spacial conditions. The campus also includes communal living and public interaction which will push the destigmatization of ex-offenders.

DESIGN FOR ECONOMY

Urban Oasis has a work place program for the residents. The campus has a restaurant and grocery store. These businesses were included because the area surrounding the site did not have any grocery or market options and a low supply of restaurants.



- GREEN SPACE: 27000 SQFT
- 3 LOUNGE AREAS: 7272 SQFT
- 1 VISTOR SPACE: 485 SQFT
- RESTAURANT AREA: 2033 SQFT
JOBS PROVIDED: 15
- 3 CLASSROOMS: 1488 SQFT
- GROCERY STORE AREA: 5148 SQFT
JOBS PROVIDED: 30
- 4 COUNSELLING ROOMS: 536 SQFT
- 76 COMMUNAL DORMS: 265 SQFT/UNIT
- 5 MEDICAL EXAM ROOMS: 869 SQFT
- 20 PUBLIC APARTMENTS: 679 SQFT/UNIT



DESIGN FOR ENERGY

Tulsa has no shortage of sunlight. Our buildings employ solar panels and solar hot water heaters in order to create net zero buildings. And by lifting up the our buildings and create void spaces, the cross ventilation will be maximized to cool the buidling passively.



DESIGN FOR RESOURCES

All of the structures at Urban Oasis have a steel facade recycled from local oil contrainers. Oil is a large part of what makes up Tulsa. In the 1920's, during Tulsa's "Golden Age", the city was known as the "Oil Capital of the World" as more than 400 Oil Companies based in Tulsa.



WATER TANK

WATER TANK



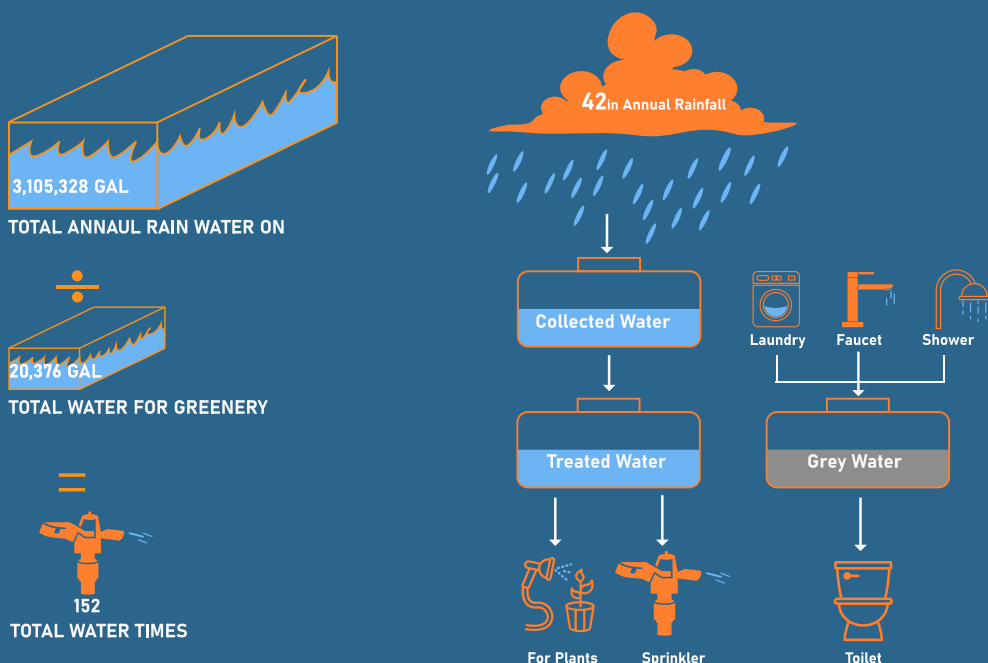
DESIGN FOR ECOSYSTEMS

Typical American downtowns are built for business and cars, thus the natural habitat that once lived in the area was often overlooked. When asked to create a space within the downtown area, we aimed not only to provide a high quality living situation for our residents but also for the larger ecosystem, including all the birds, plants and insects that once lived in this area.



DESIGN FOR WATER

To recylce water is curcial for our location. Rain silos are set up for collecting water to water the plants, and solar hot water heaters utilize the solar energy for our residents.



- Toad lily
- Milkweed
- Primrose
- Pine Siskin
- Rattlesnake Master
- Comorant, Neotropic
- Arkansas Bluestar
- Basket flower
- Bee on Ironweed
- Black bird, red winged
- American Buring Beetle
- Bill Horn
- Blue Bird, Eastern
- Field Sparrow
- Bunting, indigo
- Marsilea
- Monarch
- Mountain Blue Bird
- Blue Jay
- Passiflora







04 HAYWOOD STREET TEXTILE SCHOOL

STUDIO | SEMESTER PROJECT
SPRING 2020

PROJECT CONCEPT:

HAYWOOD STREET TEXTILE SCHOOL IS LOCATED IN ASHEVILLE, NORTH CAROLINA. THIS PROJECT REQUIRED THAT THE DESIGN REFLECTED THE INFLUENCE OF TEXTILES.

THIS PATCHWORK CONCEPT CAME FROM THE IDEA OF REPURPOSING DAMAGED CLOTHING. RATHER THAN SIMPLY TOSSING IT AWAY, THE THEME WAS CARRIED OUT THROUGH THE FACADE OF THE BUILDING. EACH DIFFERENT COLOR REPRESENTS AN INDIVIDUAL PATCH THAT WHEN WOVEN TOGETHER CREATES AN INTEGRATED PATCHWORK DESIGN THAT REFLECTS THE SCHOOL'S PROGRAM.

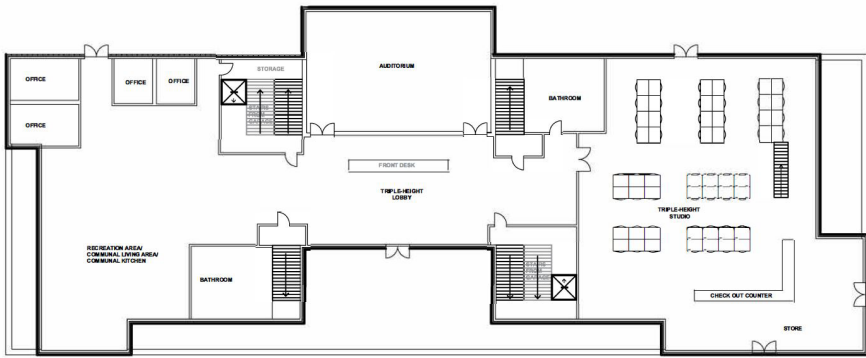
PROGRAM:

HAYWOOD STREET IS A TEXTILE SCHOOL SPECIALIZING IN CLOTHING REPAIRS AND CREATING CLOTHING USING A PATCHING STRATEGY. THIS STRUCTURE HOUSES STUDENTS IN DORMITORIES, HAS CLASSROOMS, STUDIO SPACE, OFFICES, AND A STOREFRONT TO SELL NEW MATERIALS AND ACCEPT CLOTHING DONATIONS FROM THE COMMUNITY.

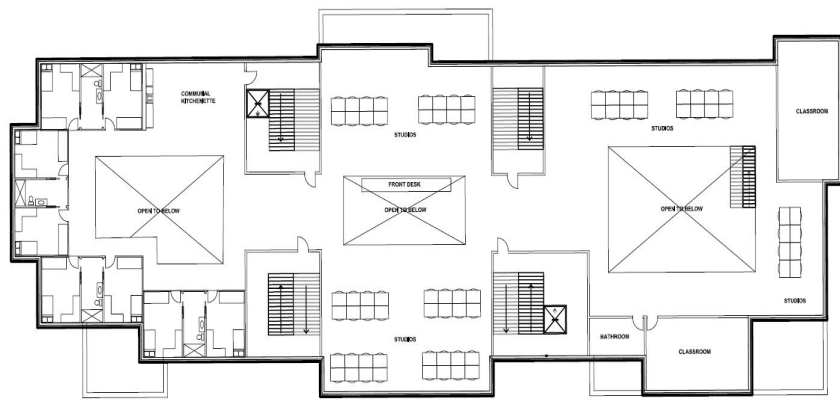


ASHEVILLE, NC

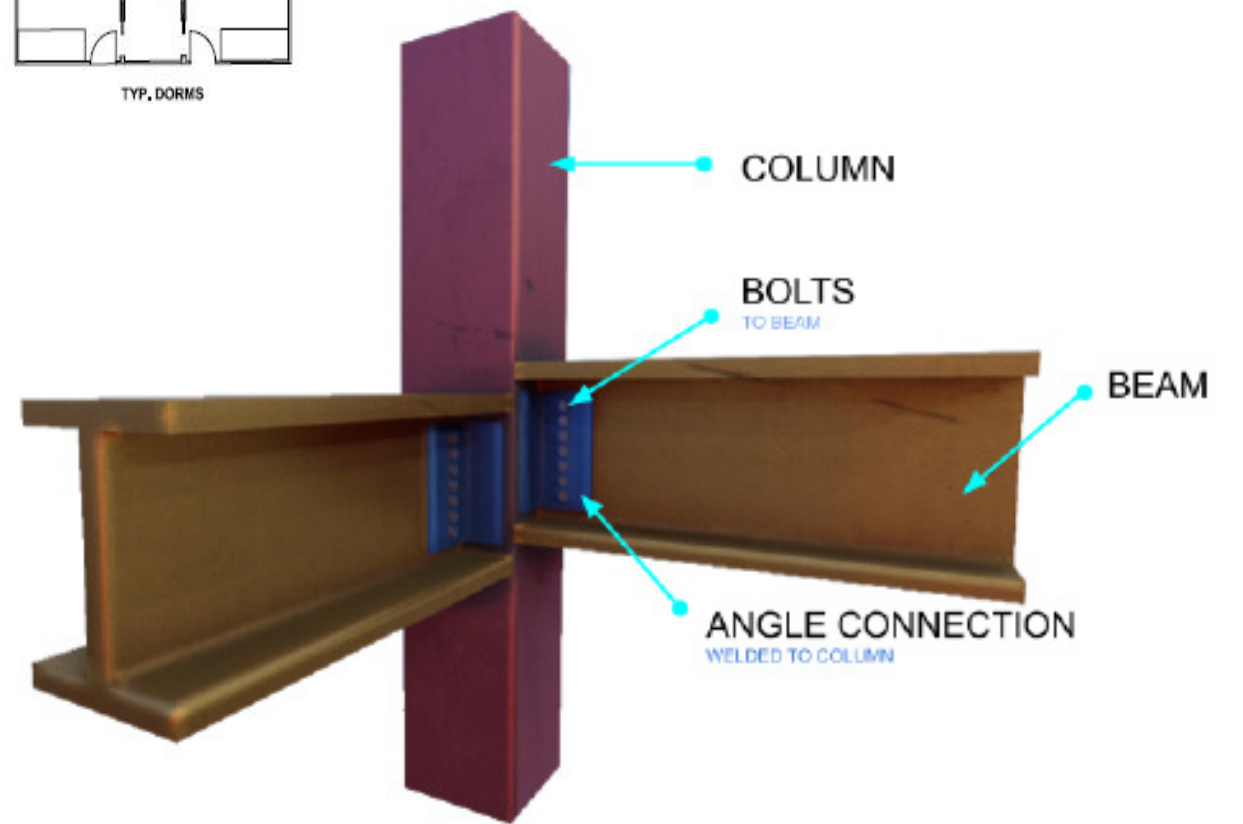
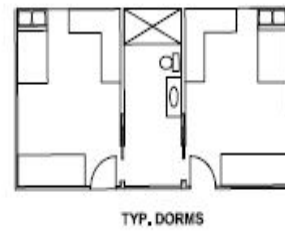
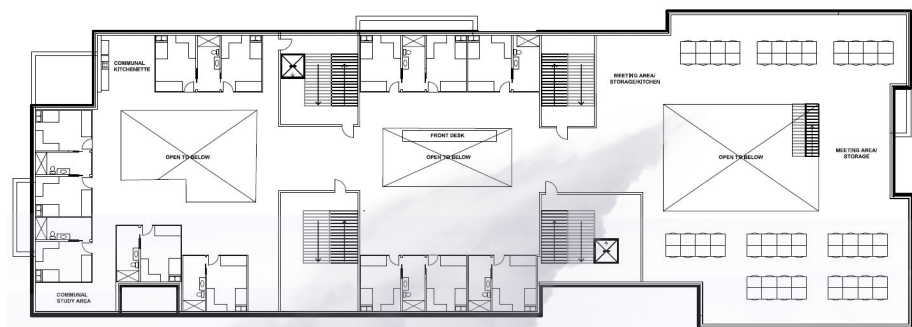
1ST FLOOR



2ND FLOOR



3RD FLOOR



COLUMN & BEAM CONNECTION DIAGRAM







05 UNITY CHAPEL - CLEMSON, SC

STUDIO I SEMESTER PROJECT

FALL 2019

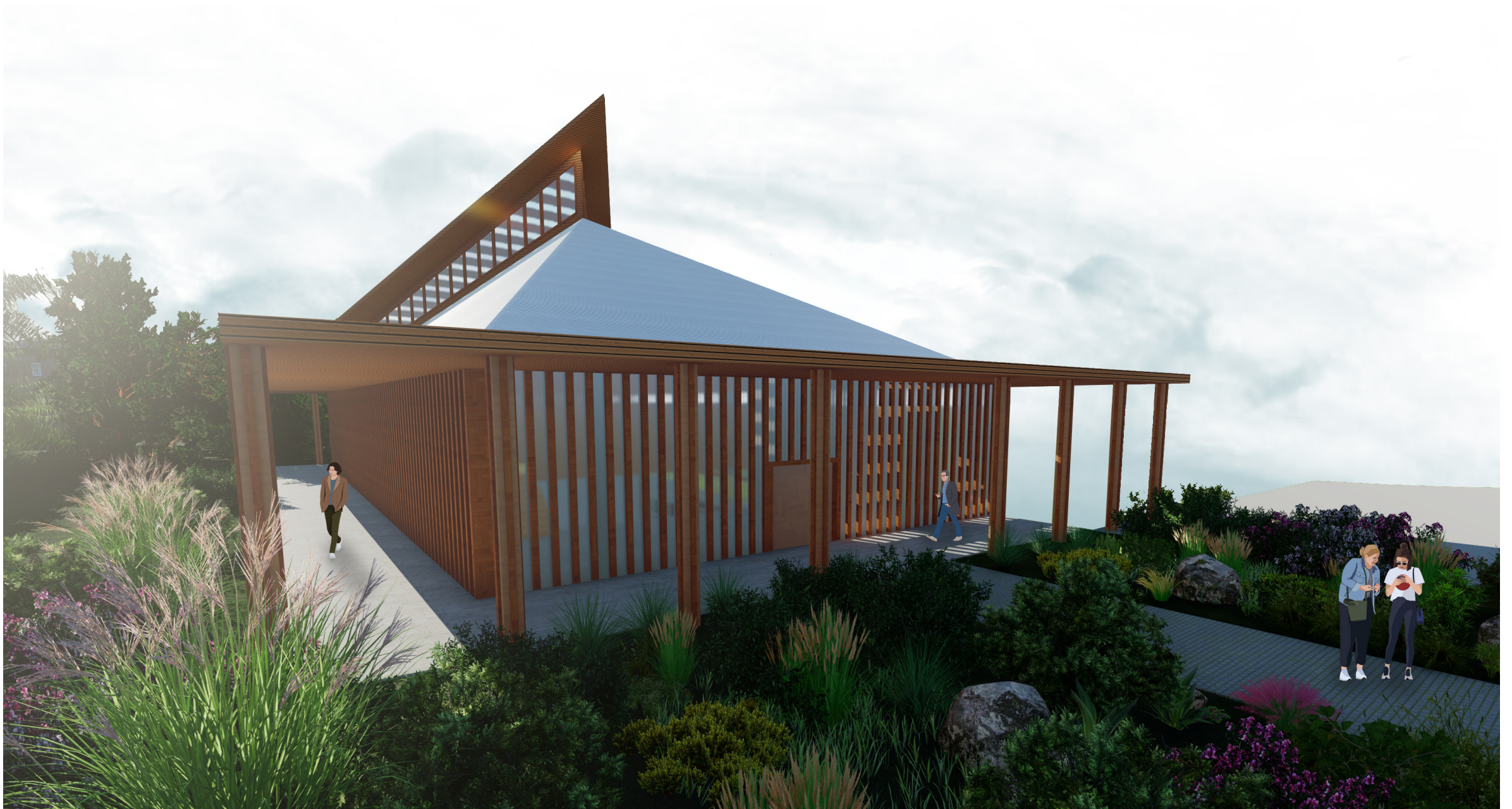
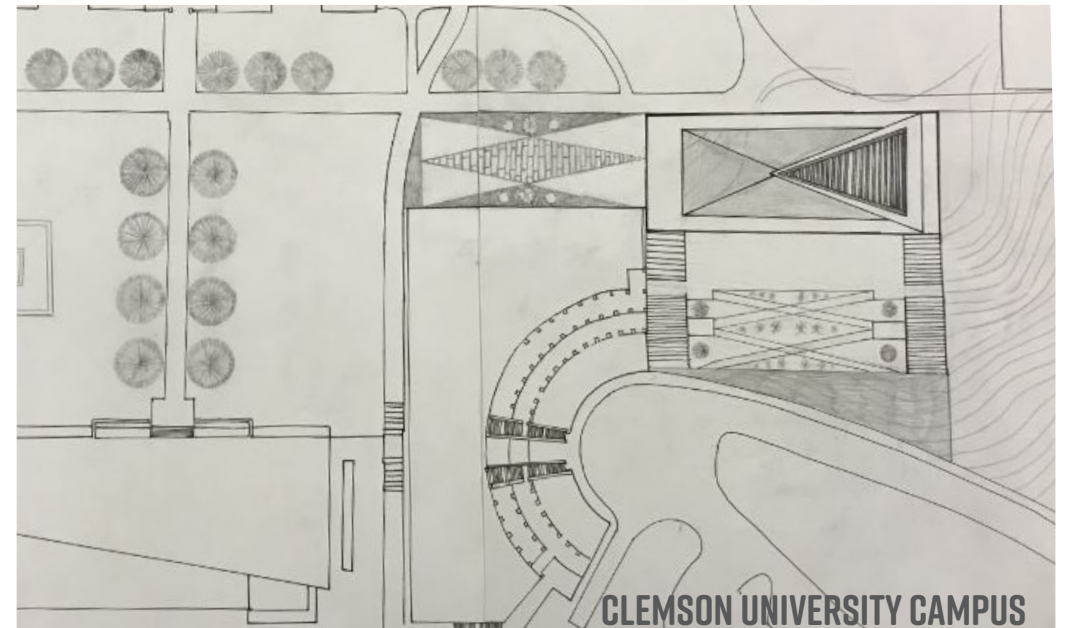
CONCEPT

DURING THE FALL OF 2019, CLEMSON UNIVERSITY HAD APPROVED A PROJECT FOR A NEW CHAPEL TO BE BUILT ON CAMPUS. THE ASSIGNMENT WAS TO DESIGN A CHAPEL FOR THE CAMPUS THAT COULD BE USED FOR ALL FAITHS IN ORDER TO PROMOTE SPIRITUAL UNITY.

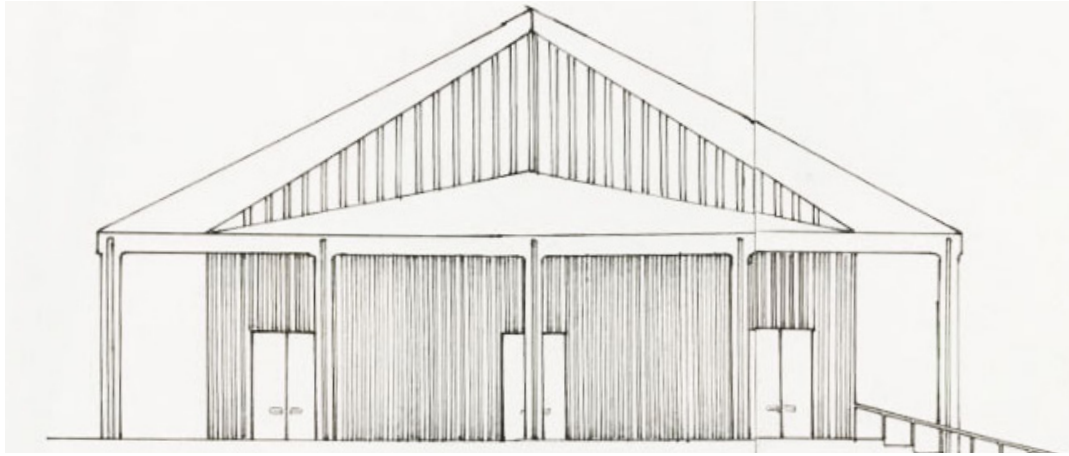
DESIGN

THE GOAL OF THE DESIGN OF THE CHAPEL WAS TO MAKE A SPIRITUAL SPACE FEEL ELEVATED. THIS WAS DONE BY MAKING THE WALLS SEMI-TRANSPARENT. THE EAST SIDE OF THE SITE WAS A STEEP HILL WITH A BUS STOP AT THE BOTTOM. THIS WAS AN OPPORTUNITY TO MAKE A PARK-LIKE ATMOSPHERE ENTRANCE TO THE TOP. STUDENTS WOULD ALREADY KNOW TO PASS THROUGH THE AREA TO GET TO THE BUS STOP.

HAND DRAWN SITE PLAN



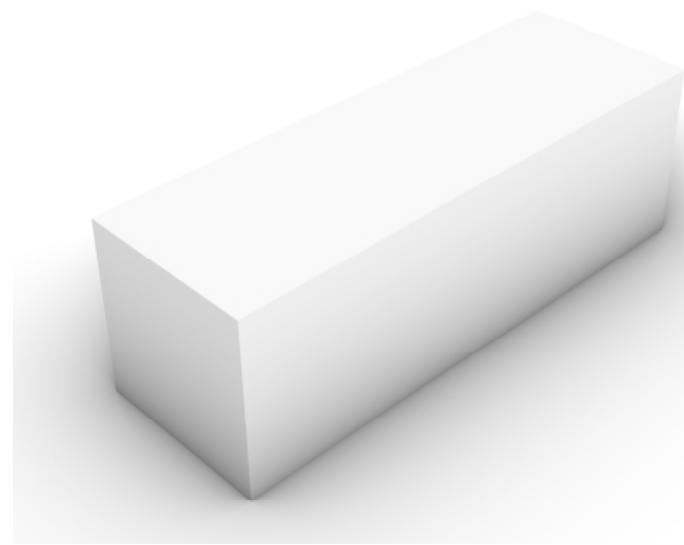
FRONT ELEVATION



SIDE ELEVATION



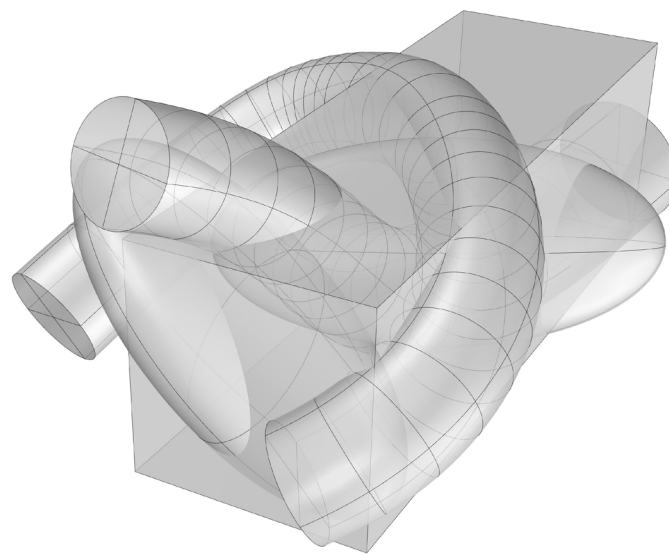
ORIGINAL



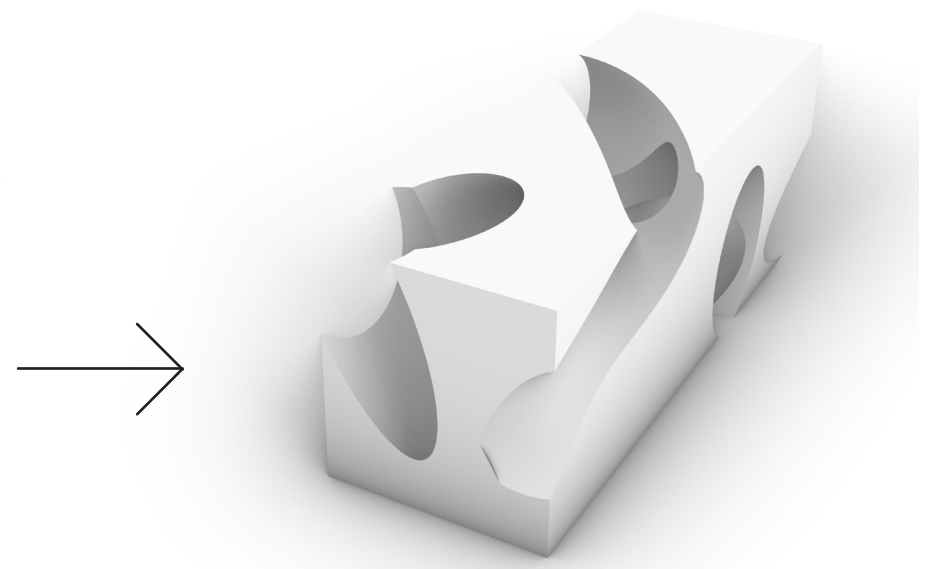
RANDOM SHAPE



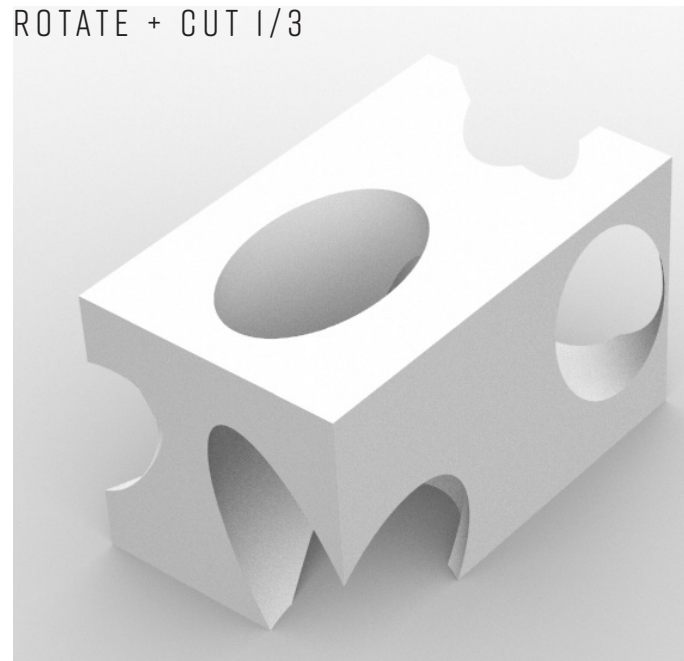
INTERSECT



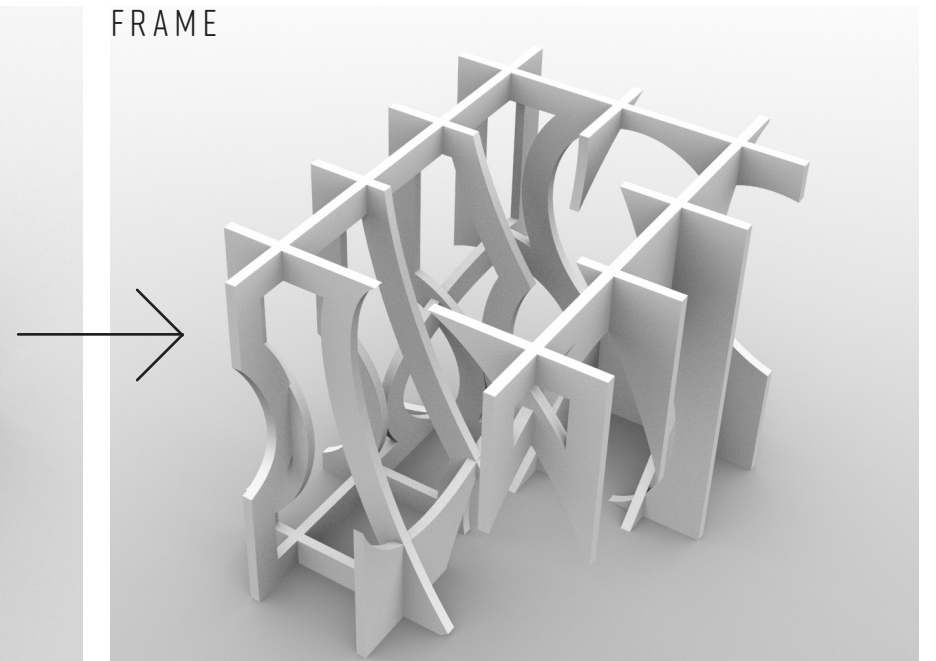
BOOLEAN



ROTATE + CUT 1/3



FRAME

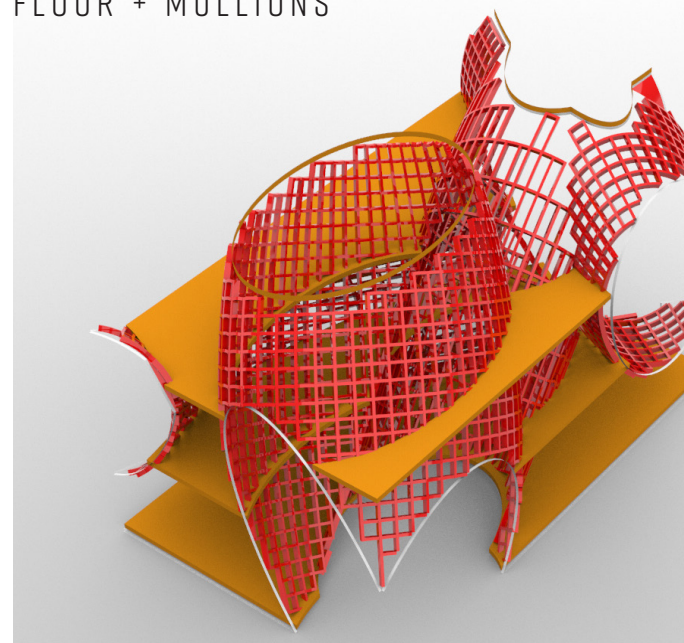


BOOLEAN DESIGN

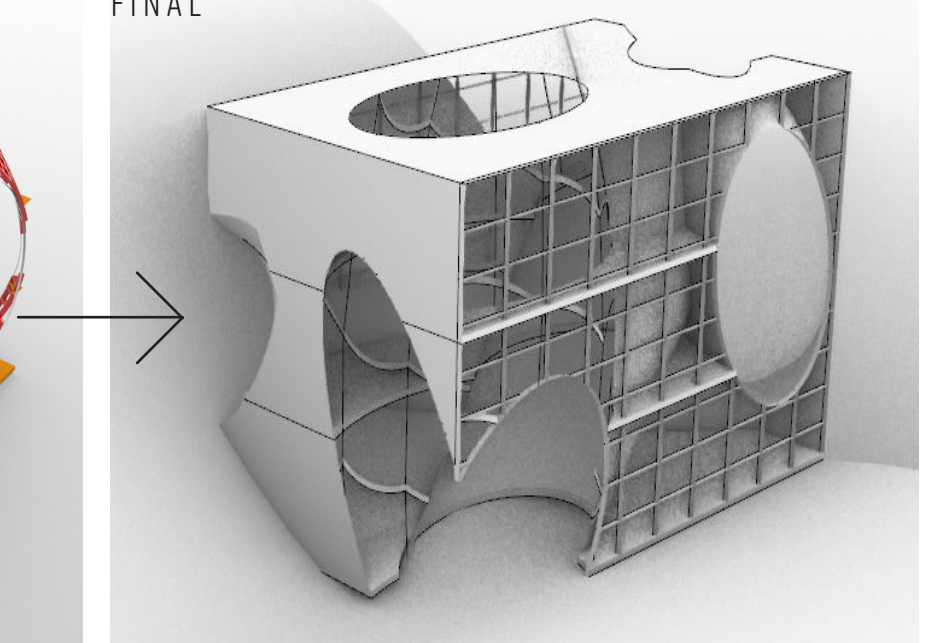
VISUALIZATION ASSIGNMENT

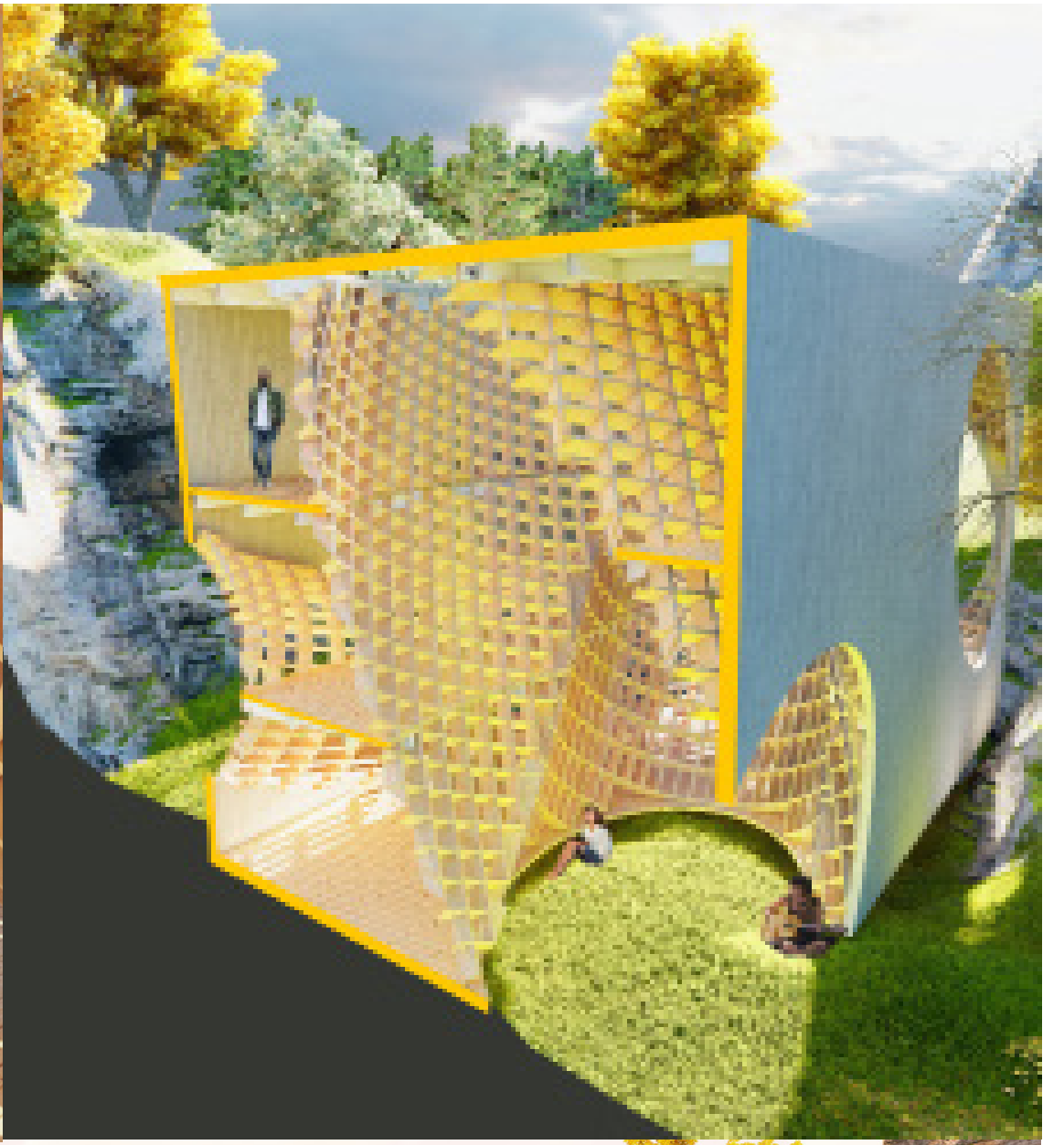
THIS PROJECT WAS FOR A VISUALIZATION COURSE CENTERED AROUND USING THE DESIGN SOFTWARE RHINO AS AN ABSTRACT TOOL. THE MAIN OBJECTIVE WAS TO MAKE A STRUCTURE FROM ORGANIC SPACES RATHER THAN PLANNING OUT FROM THE START. THE PROJECT STARTED WITH AN ORDINARY RECTANGLE. USING THE BOOLEAN DESIGN STRATEGY, THE STRUCTURE COULD BE OPENED UP. CROSS LAMINATED TIMBER PANELING AND GLASS WERE ADDED TO GIVE THE INTERIOR DEPTH. THE SITE IS A HILLSIDE IN THE WOODS, AND THE STRUCTURE WAS DESIGNED TO BE A WELCOME CENTER FOR A NATIONAL PARK.

FLOOR + MULLIONS



FINAL





CANON VI

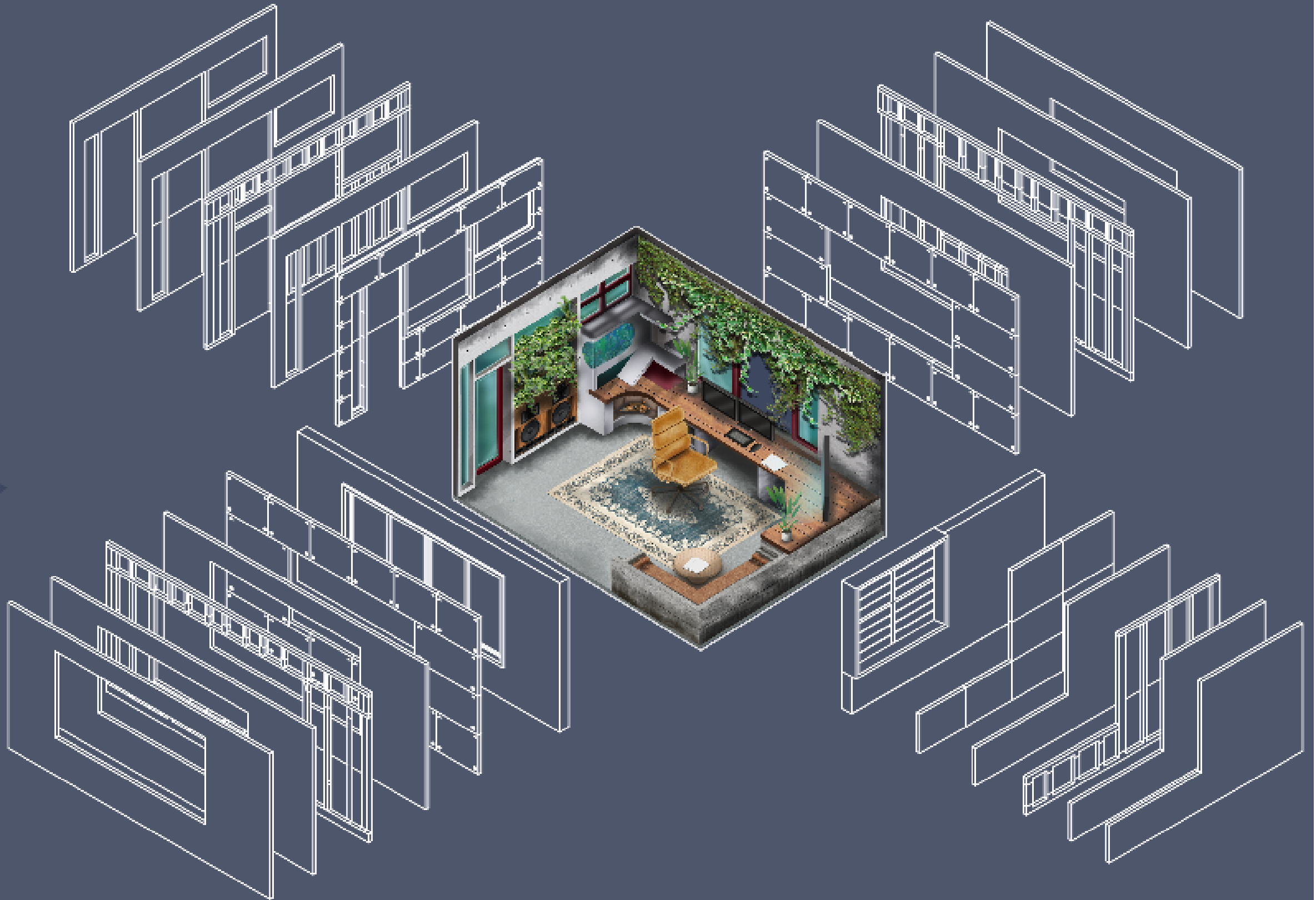
Obligations to the Environment.
Members should recognize and acknowledge the professional responsibilities they have to promote sustainable design and development in the natural and built environments and to implement energy and resource conscious design



COLLAGE - AIA CODE OF ETHICS: ENVIROMENT

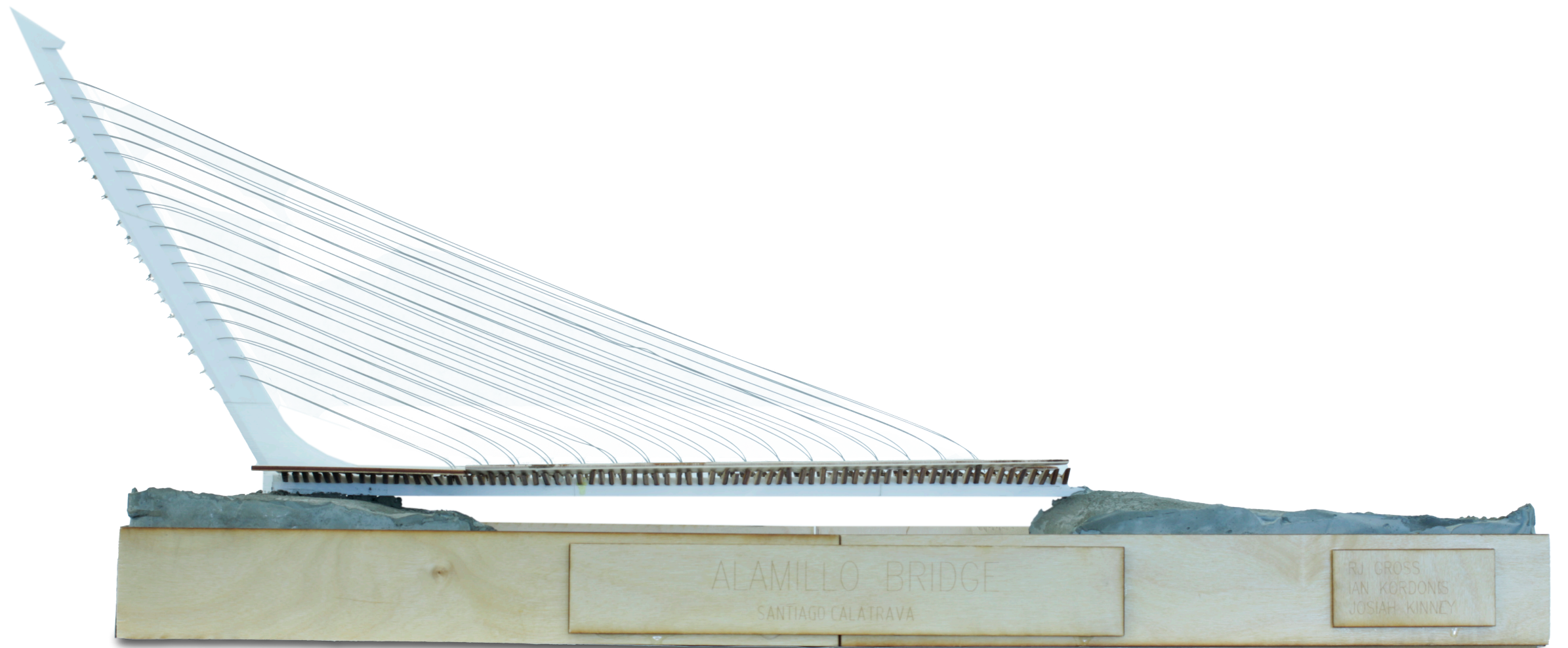
CLIENT'S DREAM OFFICE

FOR A PRODUCTIONS AND ASSEMBLIES COURSE, AN ASSIGNMENT WAS TO CREATE A DREAM OFFICE FOR A CLIENT (ANOTHER STUDENT). THE DESIGN WAS ALL BASED ON A CLIENT MEETING WHERE WE DISCUSSED INTERESTS AND THE WORKING PROCESS. PICTURED ABOVE IS MY CLIENT'S DREAM OFFICE THROUGH MY EYES. THE GRAPHIC PROCESS ACCOMPLISHED THROUGH SKETCH UP AND ADOBE PHOTOSHOP.



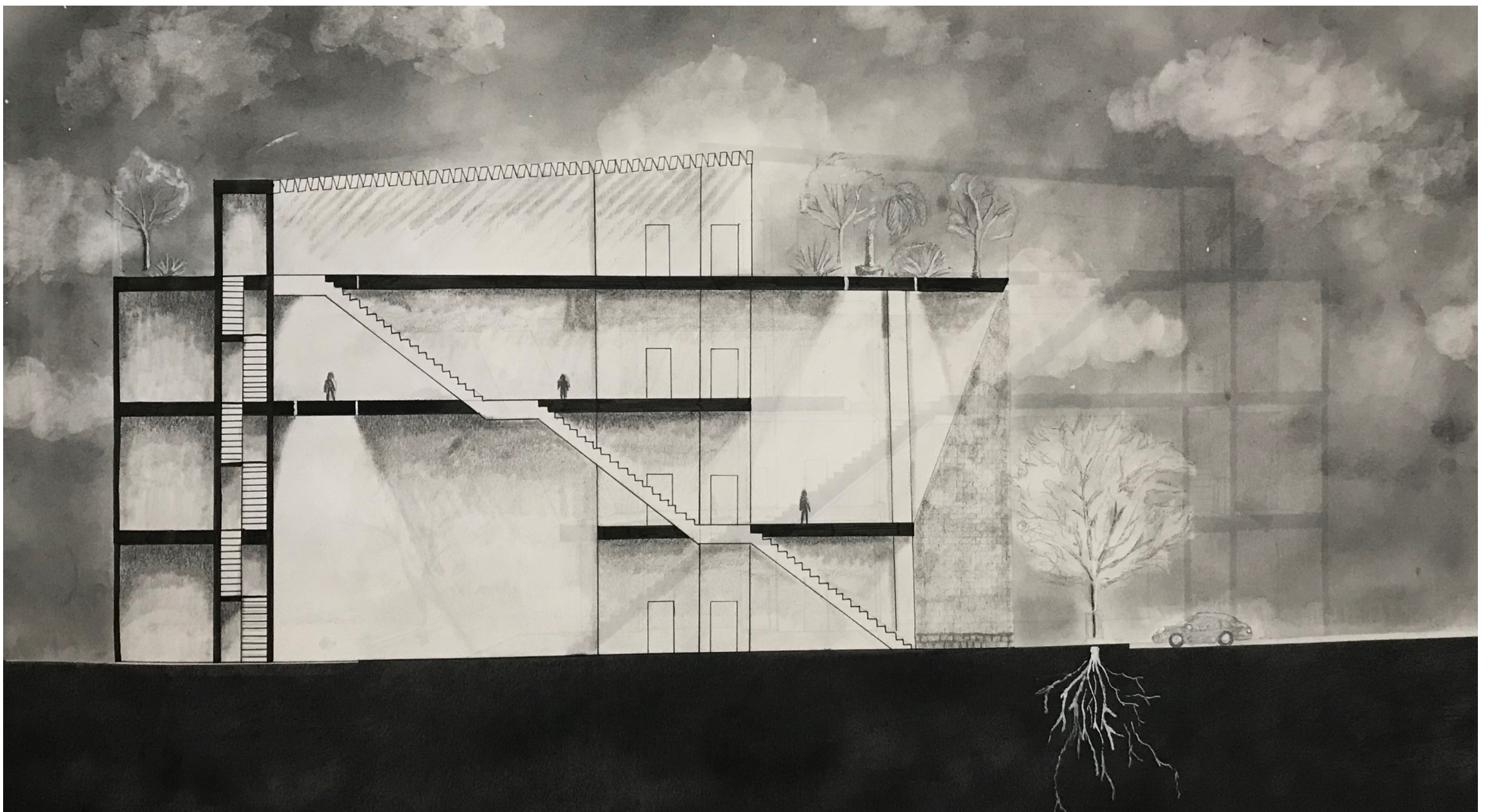
MODEL OF CALATRAVA'S ALAMILLO BRIDGE

STRUCTURES COURSE PROJECT



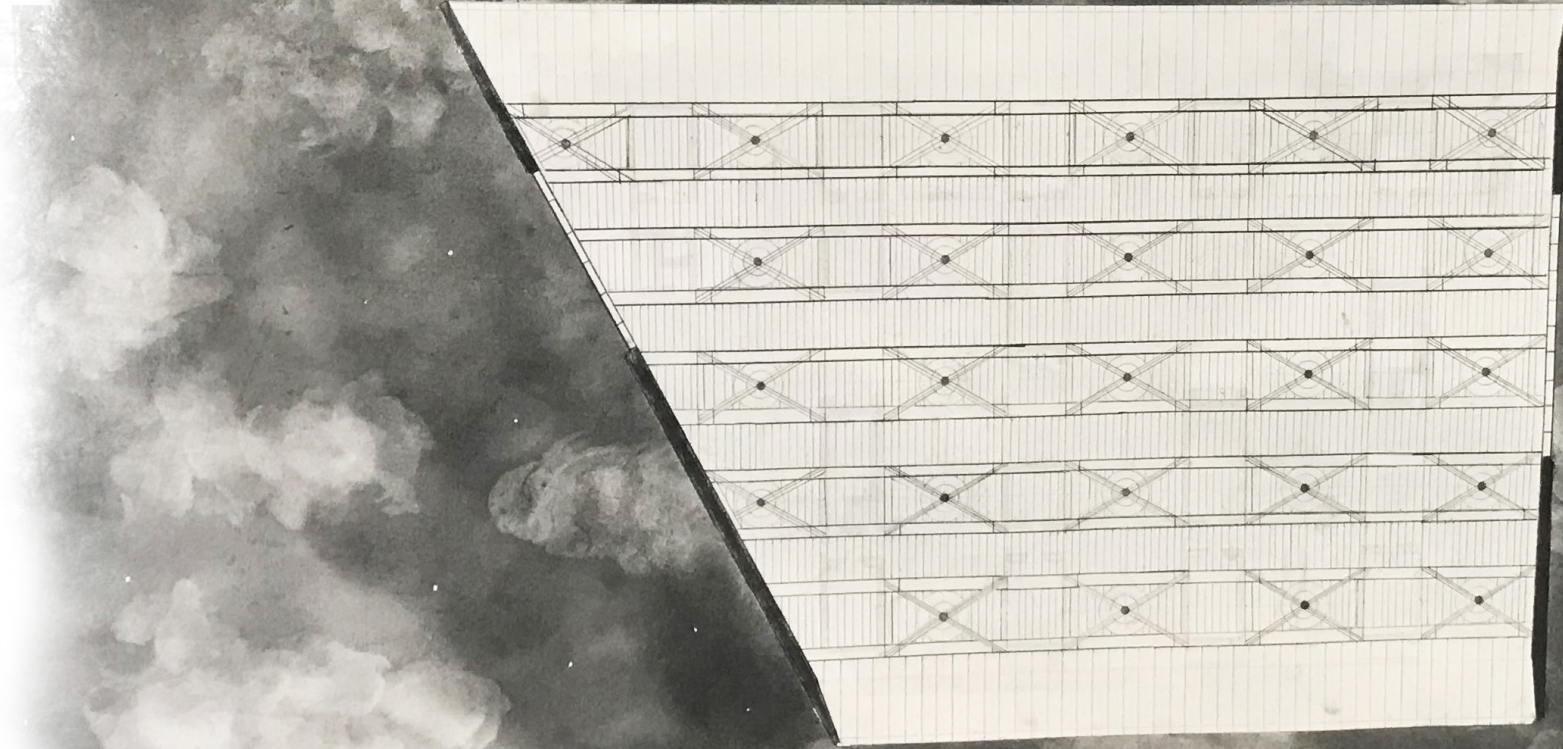
SECTION DRAWING

VISUALIZATION ASSIGNMENT



LEE HALL - CLEMSON UNIVERSITY

VISUALIZATION COURSE ASSIGNMENT



REFLECTED CEILING PLAN



FIRST FLOOR PLAN

2020 MAKE A SITE FOUNDATION

WEBSITE ART BANNER FOR CEEMI AGENCY

FREE SITE FOUNDATION FOR BUSINESSES AFFECTED BY COVID-19



“FRANCIS MARION FOREST”

PERSONAL WORK



"THREE BROTHERS"

PERSONAL WORK



"MAN'S BEST FRIEND"

PERSONAL WORK - DRAWING

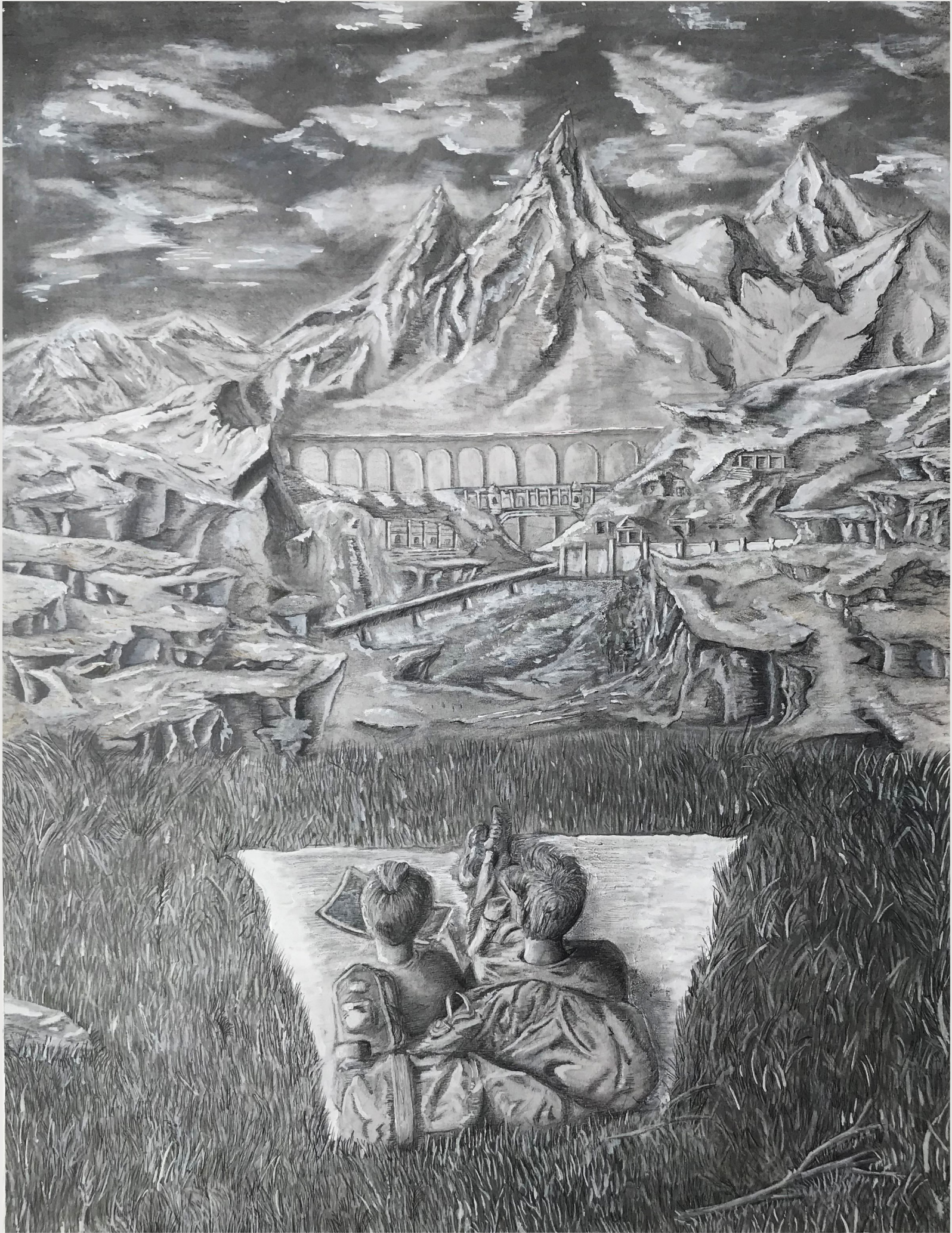


“TIMEOUT”

PERSONAL WORK - DRAWING

"LOST BUT FOUND"

PERSONAL WORK - DRAWING



Rj.
3.25.20

GRUNEWALD, GERMANY
PERSONAL WORK - PHOTOGRAPHY



DANCING HOUSE - PRAGUE, CZECH REPUBLIC

PERSONAL WORK - PHOTOGRAPHY + PHOTO MANIPULATION





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