



Richard  
Dempsey  
Selected Works

## education

**The Savannah College of Art and Design**  
BFA Architecture - 2015

**The Georgia Institute of Technology**  
M.Arch - 2020

## awards / publications

**Georgia Tech Academic Scholarship** 2018-2020

**Portman Prize Publication** 2019

**ACSA Conference: The Ethical Imperative** 2018  
Presentation of Megalith: A Deterrent. Presented  
in Architecture in the Expanded Field Panel.  
(Denver, CO March 2018)  
with Jean Jaminet and Zach Beale

**Isomorphism** 2017

**SCAD CLC Residential Studio** 2014  
Competition winning studio project for  
residential design

## academic experience

**Kent State University** 2017  
Invited guest juror and guest presenter

**The University of Georgia** 2017  
Invited speaker to the UGA Sustainability  
Certificate Program.

**Kennesaw State University** 2017  
Guest Reviewer

## skills

Rhino, AutoCAD, Maya, Revit, Z Brush, Grasshopper,  
Fologram (construction / fabrication via Hololens and AR),  
Adobe Creative Suite, Microsoft Office, 3DS Max, KeyShot,  
Physical Model Making, Digital and Traditional  
Fabrication Techniques, Drawing, Painting,  
Art Architectural and Design Theory.

## references

Gerald Cowart FAIA : Owner, Cowart Group Architects  
phone: 912.658.2494    email: gcowart@cowartgroup.com

Jean Jaminet Professor / Collaborator  
phone: 212.786.2065    email: jjamninet@kent.edu

## work experience

**Georgia Tech Digital Fabrication Lab**  
Shop Technician and Fabricator : Aug 2019 - Present  
Aided students and faculty with development  
and creation of digital and traditional fabrication projects

**Morphosis, NYC**  
Georgia Tech Practicum Program 2019  
Competition development for Brighton College in UK.

**Greg Harrell Architects** atlanta, georgia  
Designer : Jan 2019 - Dec 2020  
Design and development of residential projects of varying scale.  
Taken a lead design role on projects from initial concept  
design through contract documents.

**Hansen Architects** savannah, georgia  
Designer : Feb 2018 - Aug 2018  
Design and documentation of luxury hospitality, residential,  
higher education, historic preservation, and re- use projects.

**Bork Design** athens, georgia  
Designer : Mar 2016 - Mar 2017  
Design and documentation of mixed use, adaptive re-use, and  
residential projects.

**Cowart Group Architects** savannah, georgia  
Intern : Jun 2014 - Mar 2016  
Design and documentation of luxury residential projects from initial  
site analysis through contract documents.

**SCAD Museum of Art** savannah, georgia  
Docent 2013 - 2014  
Informed visitors about current exhibitions, conducted guided tours  
and aided in exhibitions install work and curation after exhibiting  
interest in museum work and exhibition design.

Amy Landesberg : Sculptor / Architect / Collaborator  
phone: 404.797.9562    email: al@amylandesberg.com

Brian Bell : Principal BLDGS  
email: bb@bldgs.org



# Megalith : A Deterrent

presented at ACSA The Ethical Imperative Conference  
carlsbad, new mexico






- team:  
richard dempsey - design, visualization  
zach beale - visualization  
jean jaminet - critic

Designed as a deterrent to keep people away from the WIPP (waste isolation pilot plant) site in Carlsbad, New Mexico for the next 10,000 years we explored ways to deter while circumventing direct communication. Communication with humans that far in the future will be impossible through language, so we chose to use a physiological approach using 19hz (the fear frequency) resonance to cause irrational fear from those attempting to visit the site. This fear will allow for the site to worm its way into local folklore allowing the project to become known as a "bad place" in the future.





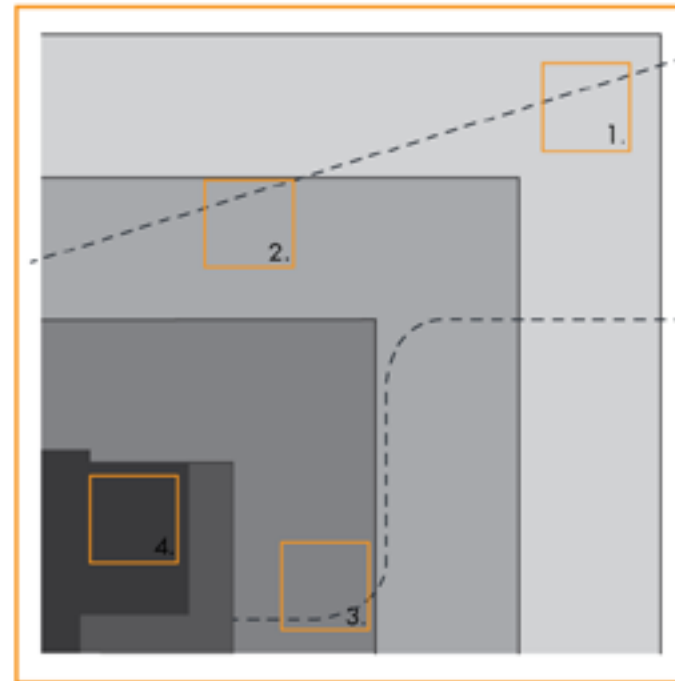
## SITE KEY

-  Lowest Concentration of Stelae, Only 19hz Subsonic Frequency
-  Medium Concentration of Stelae, Introduction of Dissonant Elements
-  High Concentration of Stelae, High Level of Subsonic Dissonance
-  Extreme Concentration of Stelae, Total Subsonic Dissonance
-  WIPP Main Building Location

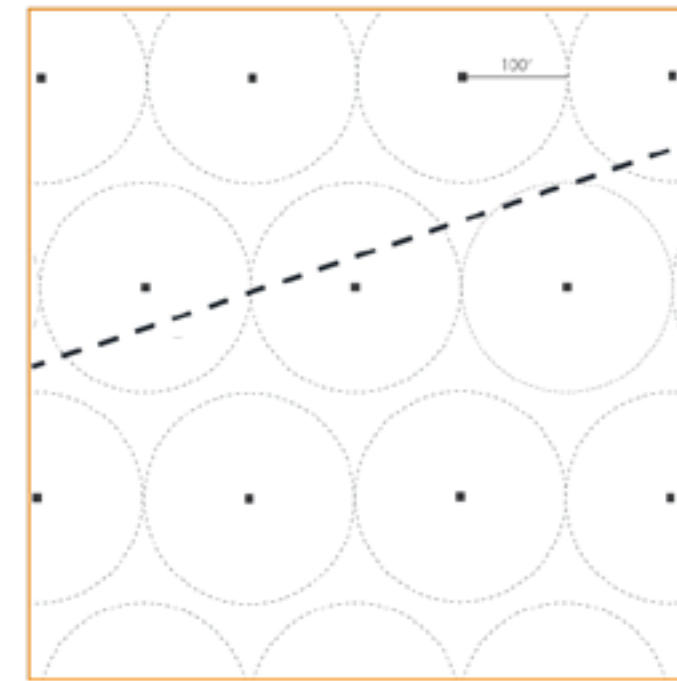
----- Roads To Be Removed

## PREVAILING WINDS

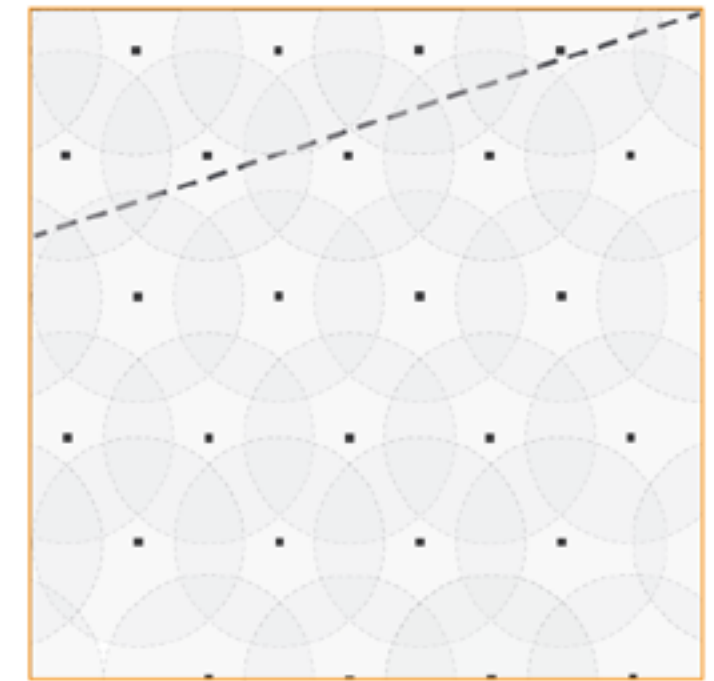
JAN - WEST	JUL - SOUTH
FEB - WEST	AUG - SOUTH-SE
MAR - WEST	SEPT - SOUTH
APR - WEST	OCT - SOUTH
MAY - WEST	NOV - WEST
JUN - SOUTH-SE	DEC - WEST



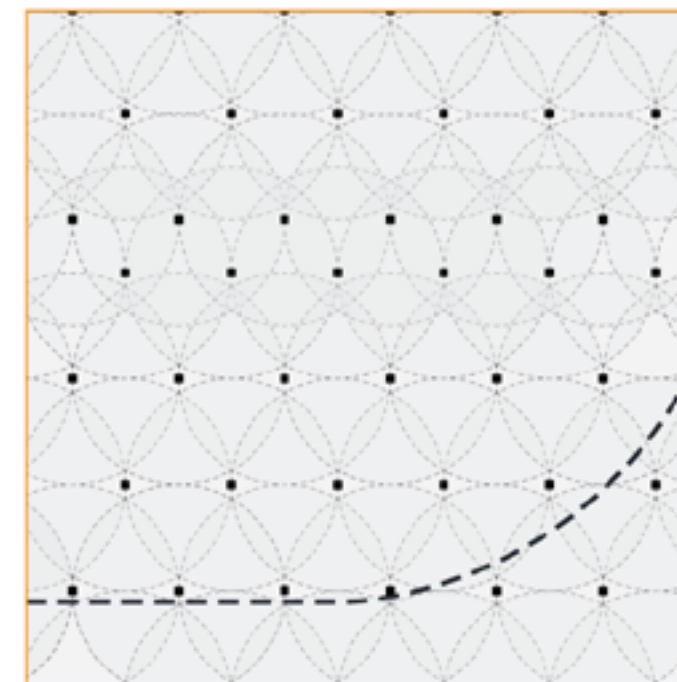
ENLARGED SITE QUADRANT PLAN



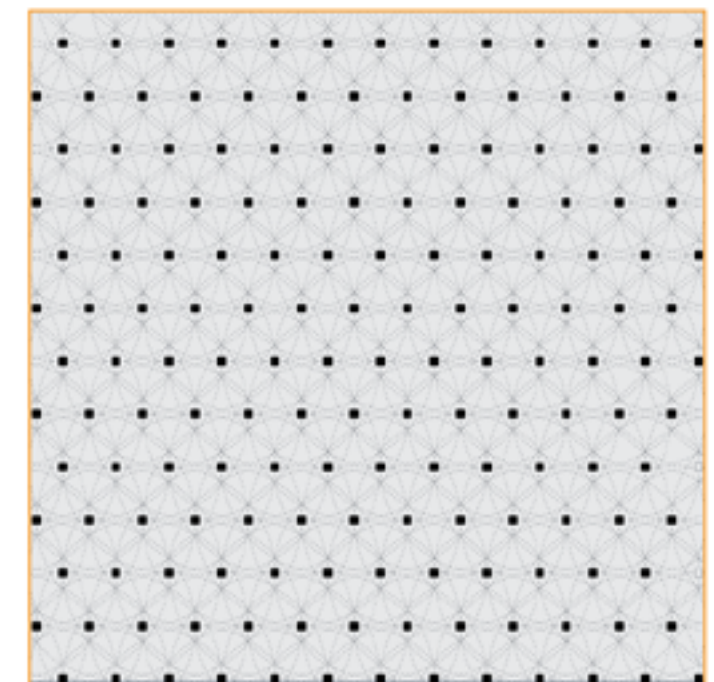
1.  
LOW CONCENTRATION STELAE ARRANGEMENT  
(100' CONSERVATIVE EFFECTIVE RADIUS OF RESONANCE)



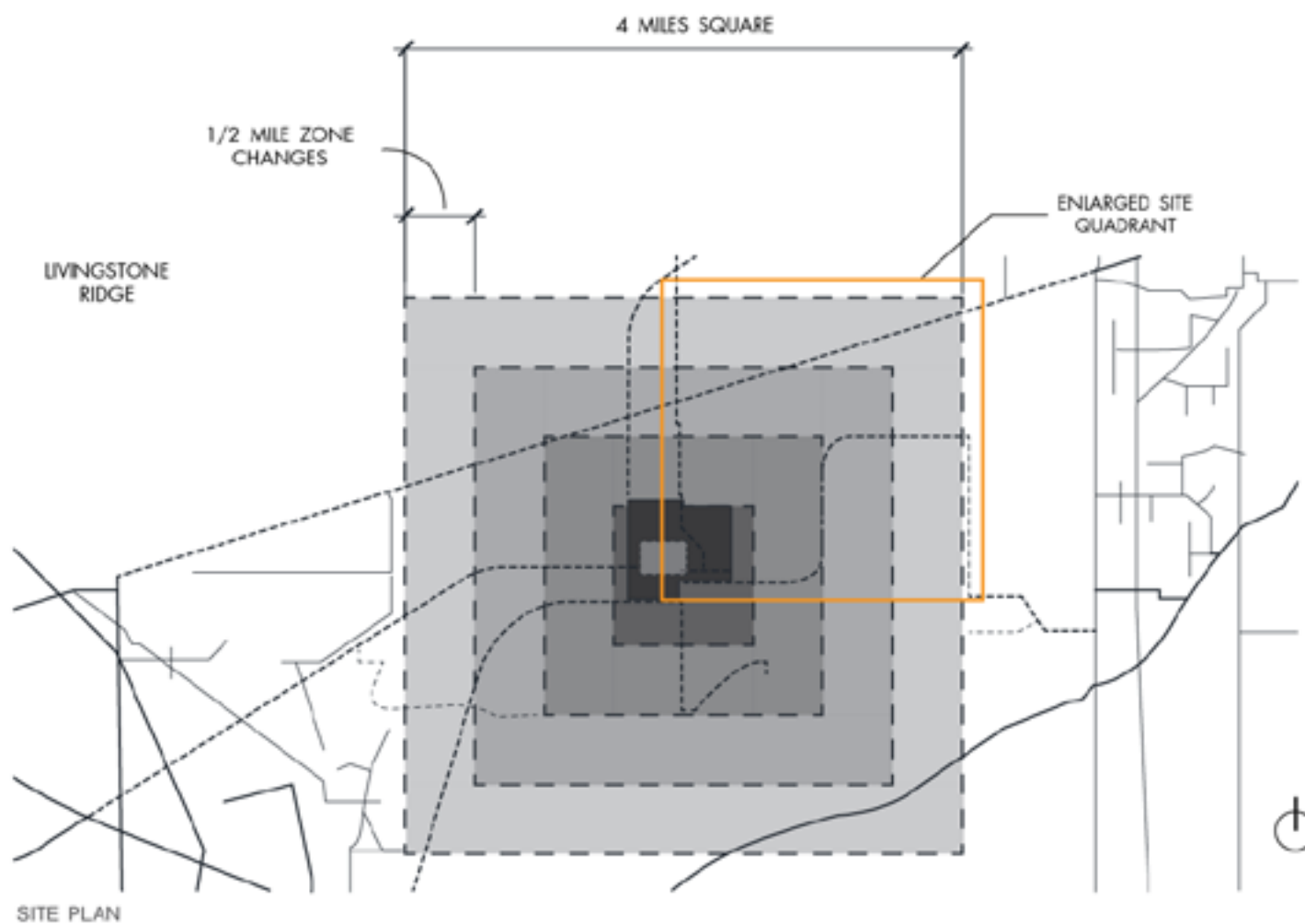
2.  
MEDIUM CONCENTRATION STELAE ARRANGEMENT



3.  
HIGH CONCENTRATION STELAE ARRANGEMENT



4.  
EXTREME CONCENTRATION STELAE ARRANGEMENT



SITE PLAN

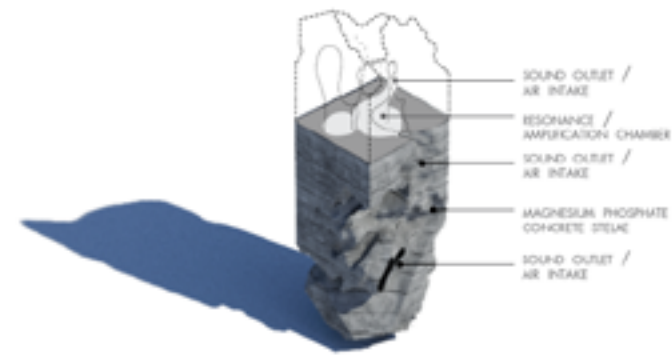
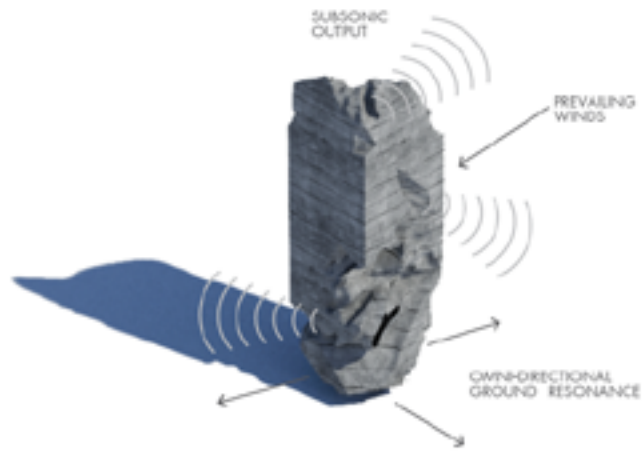




STELAE DETAIL



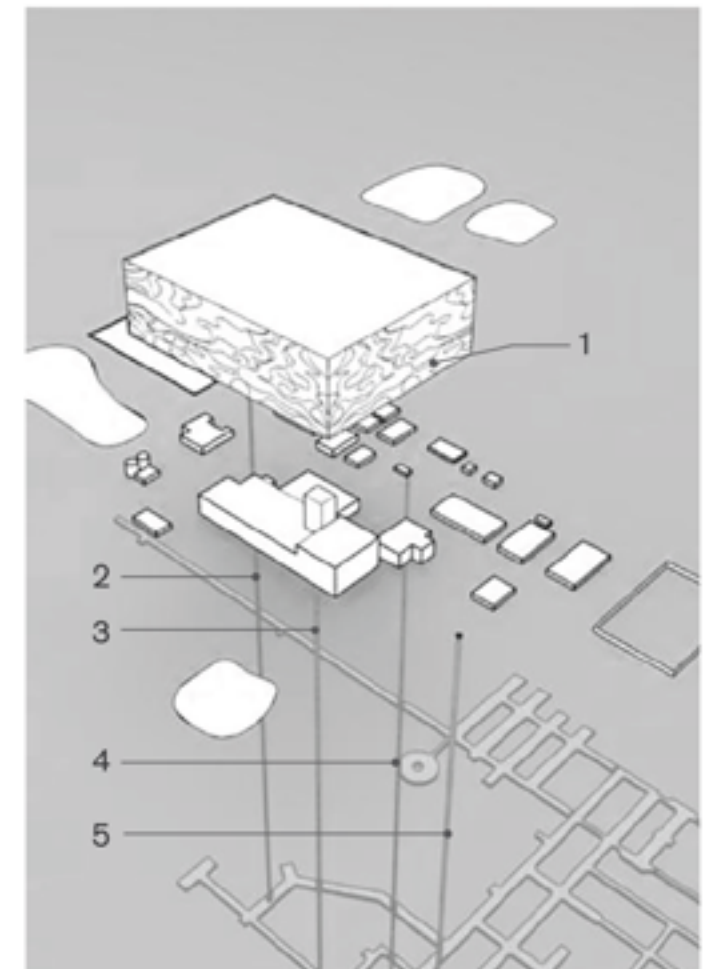
STELAE DETAIL OF RESONANCE CHAMBER THROUGH INTAKE / OUTLET



STELAE FIELD AND MIRRORED SARCOPHAGUS

#### DRAWING KEY

- 1.) SYNTHETIC CRYSTAL MIRROR CLADDING (TO RESIST SCRATCHING)
- 2.) WIPP INTAKE SHAFT
- 3.) WIPP WASTE SHAFT
- 4.) WIPP SALT HANDLING SHAFT
- 5.) WIPP EXHAUST SHAFT

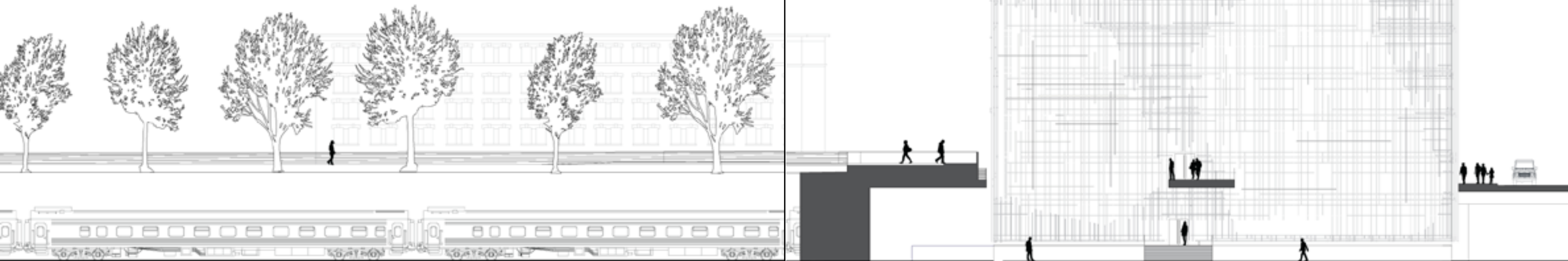


SARCOPHAGUS AND UNDERGROUND NUCLEAR STORAGE

# 55 Foundry Street

boston, massachusetts  
professor : david youm  
competition critic : alan organschi

Sited in south Boston, Massachusetts this mixed-use project focuses on local community engagement and experimentation with CLT (cross laminated timber). This area of south Boston is a food desert, and the implementation of a market on the ground level will alleviate this pressure on the neighborhood. On the second level a public library annex, and 40 micro housing units above. Structurally, instead of resorting to the expected post and beam approach indicative of CLT construction I wanted to experiment with a new way of building using a series of strategically placed shear walls and a lattice-work of transfer beams above to create a porous architectural gesture. This approach was translated into the exterior through a heavily articulated second skin for shading allowing the language to be understood at multiple scales.



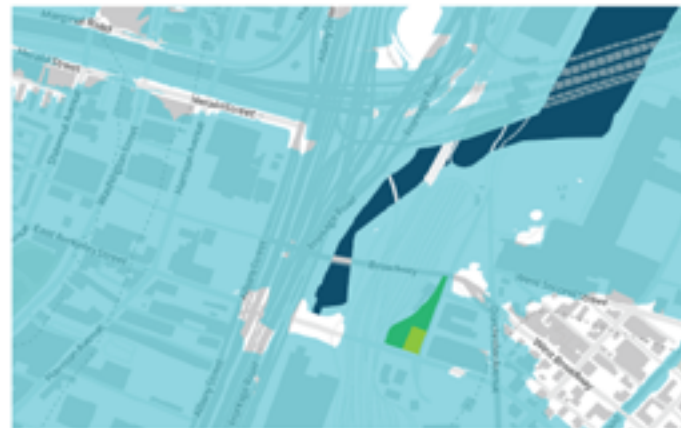
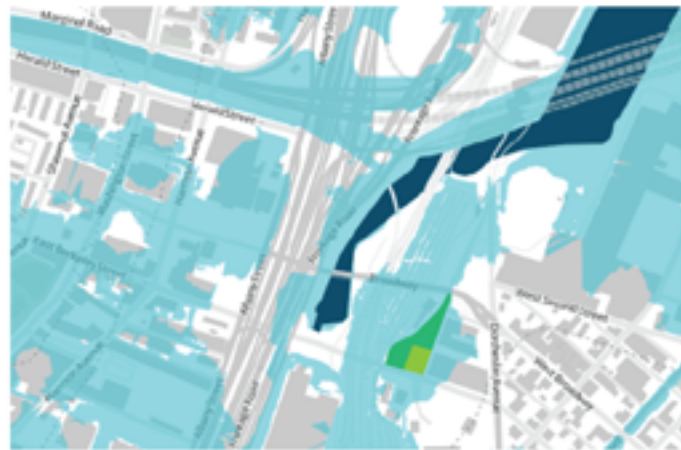
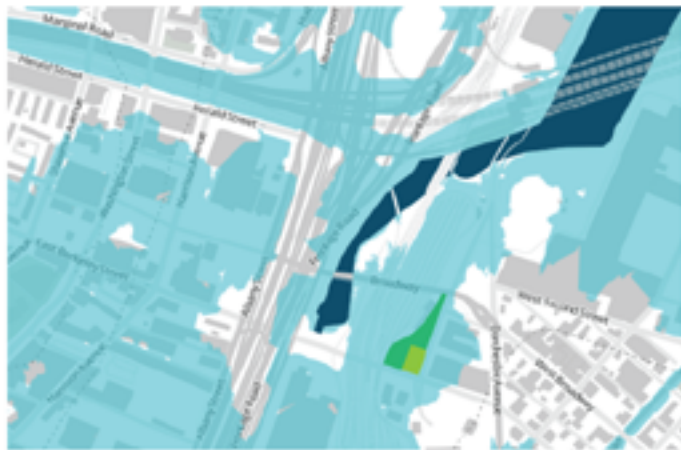
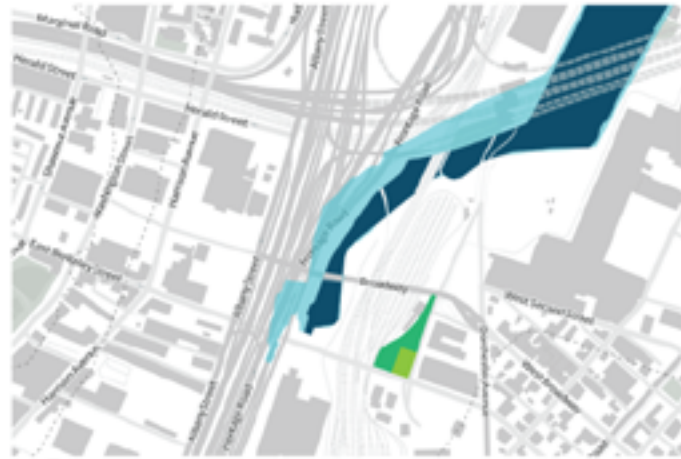
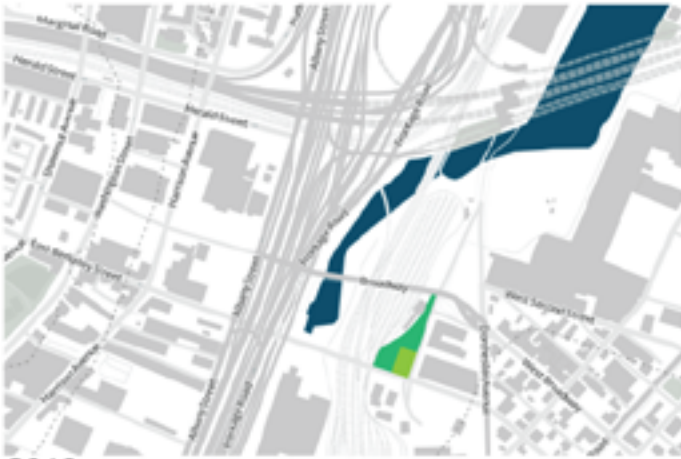


MASS TIMBER CARBON SEQUESTRATION FOR PROJECT

CLT / TIMBER VOLUME	---	TOTAL VOLUME
		181,278 CUBIC FEET
CLT / TIMBER	---	
CARBON STORAGE		676KG CO <sup>2</sup> PER M <sup>3</sup> (43LBS FT <sup>3</sup> )

TOTAL PROJECT  
CARBON STORAGE **3,897** CUBIC TONS

PROJECTED SEA LEVEL RISE



THE BUILDING IS RAISED ON  
A PLINTH TO SIX FEET  
ABOVE STREET LEVEL TO  
INCREASE BUILDING  
RESILIENCE TO PROJECTED  
SEA LEVEL RISE OVER THE  
NEXT 80 YEARS. MAJOR  
STORM SURGE EVENTS USE  
SANDY AS A REFERENCE  
POINT FOR ANOMALIES

STRUCTURE AND CIRCULATION DIAGRAMMS



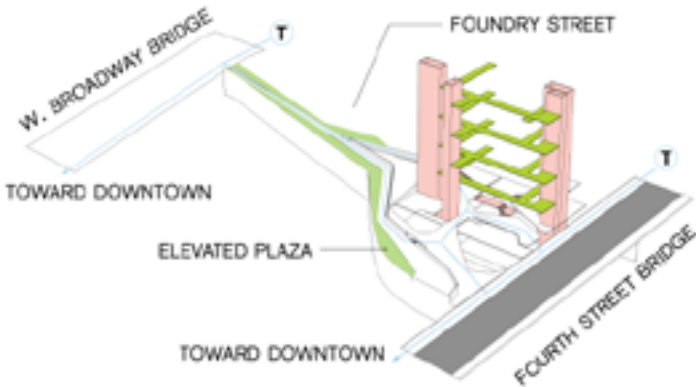
MARKET LEVEL STRUCTURAL WALLS



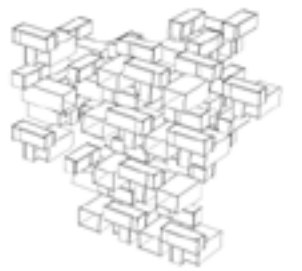
LIBRARY LEVEL STRUCTURAL WALLS



TRANSFER BEAM AGGREGATION



COMPLETE STRUCTURAL AGGREGATION



CIRCULATION / SITE CONNECTIVITY

- VERTICAL CIRCULATION
- RESIDENTIAL CIRCULATION
- SITE CONNECTIVITY

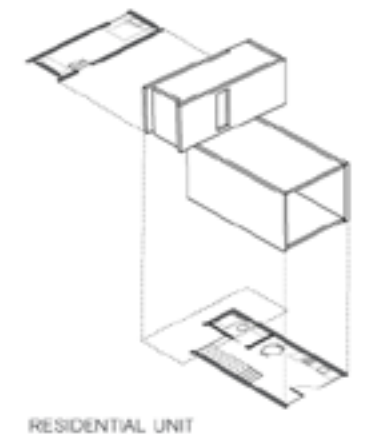
RESIDENTIAL UNIT AGGREGATION



LONGITUDINAL SECTION



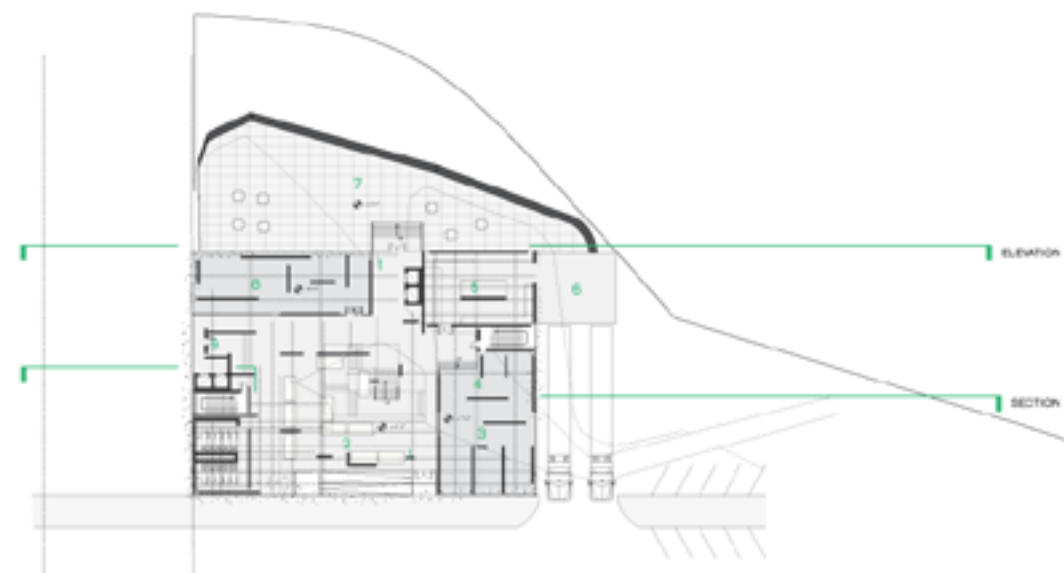
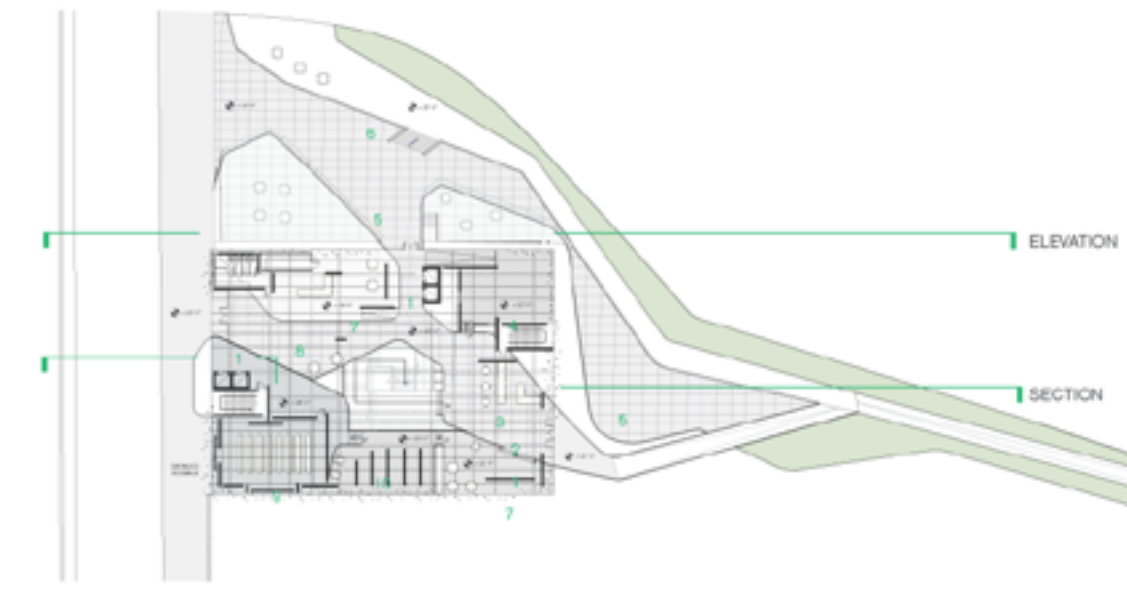
RESIDENTIAL LEVEL PLAN



RESIDENTIAL UNIT

#### LIBRARY LEVEL KEY

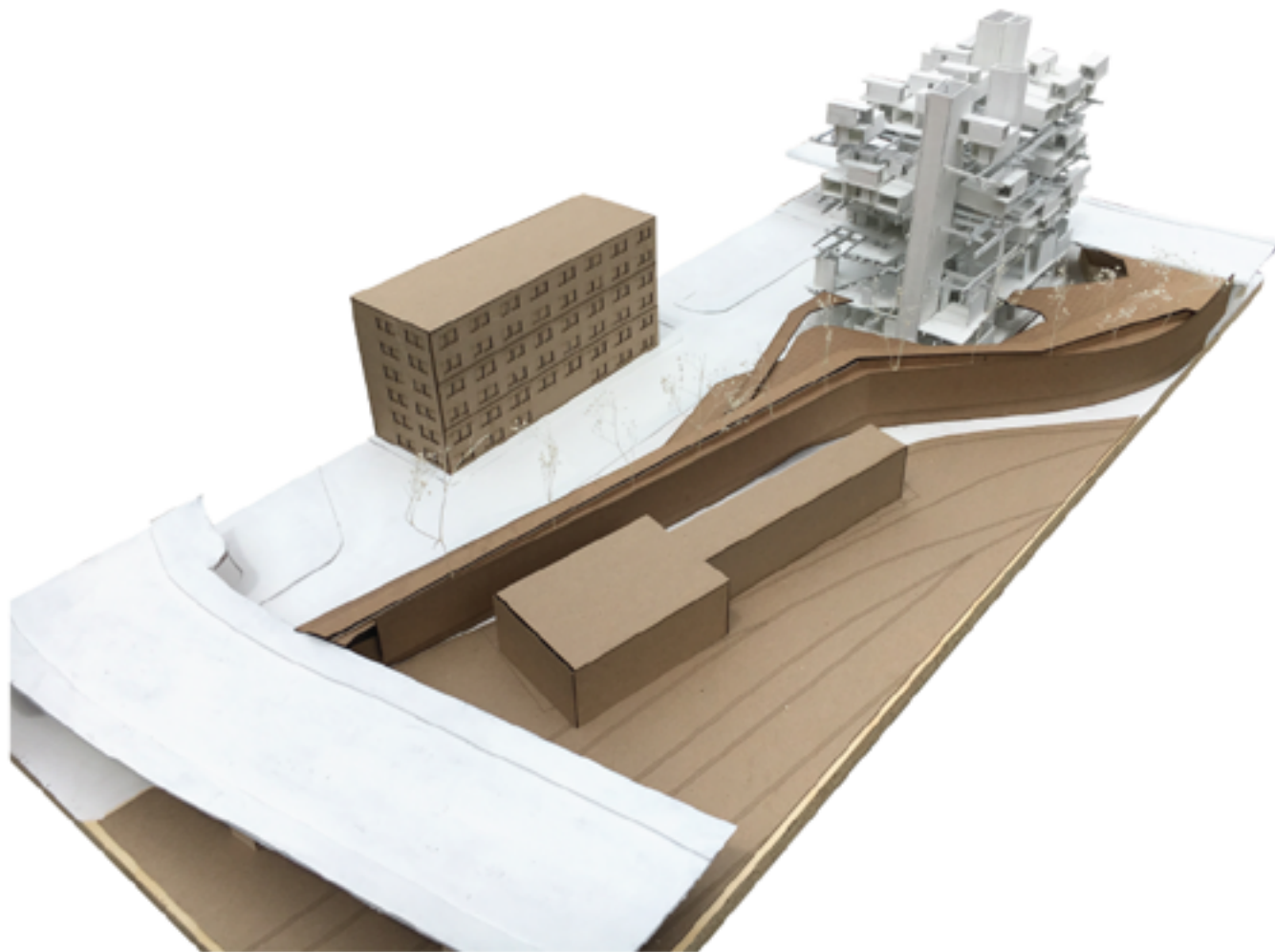
- 1 - ENTRY
- 2 - CIRCULATION DESK
- 3 - COMPUTER STATIONS
- 4 - SEMI-PRIVATE READING / COMMUNITY ASSEMBLY SPACE
- 5 - PLAZA
- 6 - ELEVATED PLAZA
- 7 - SEATING / READING
- 8 - CAFE
- 9 - SCREENING ROOM / THEATRE
- 10 - STACKS



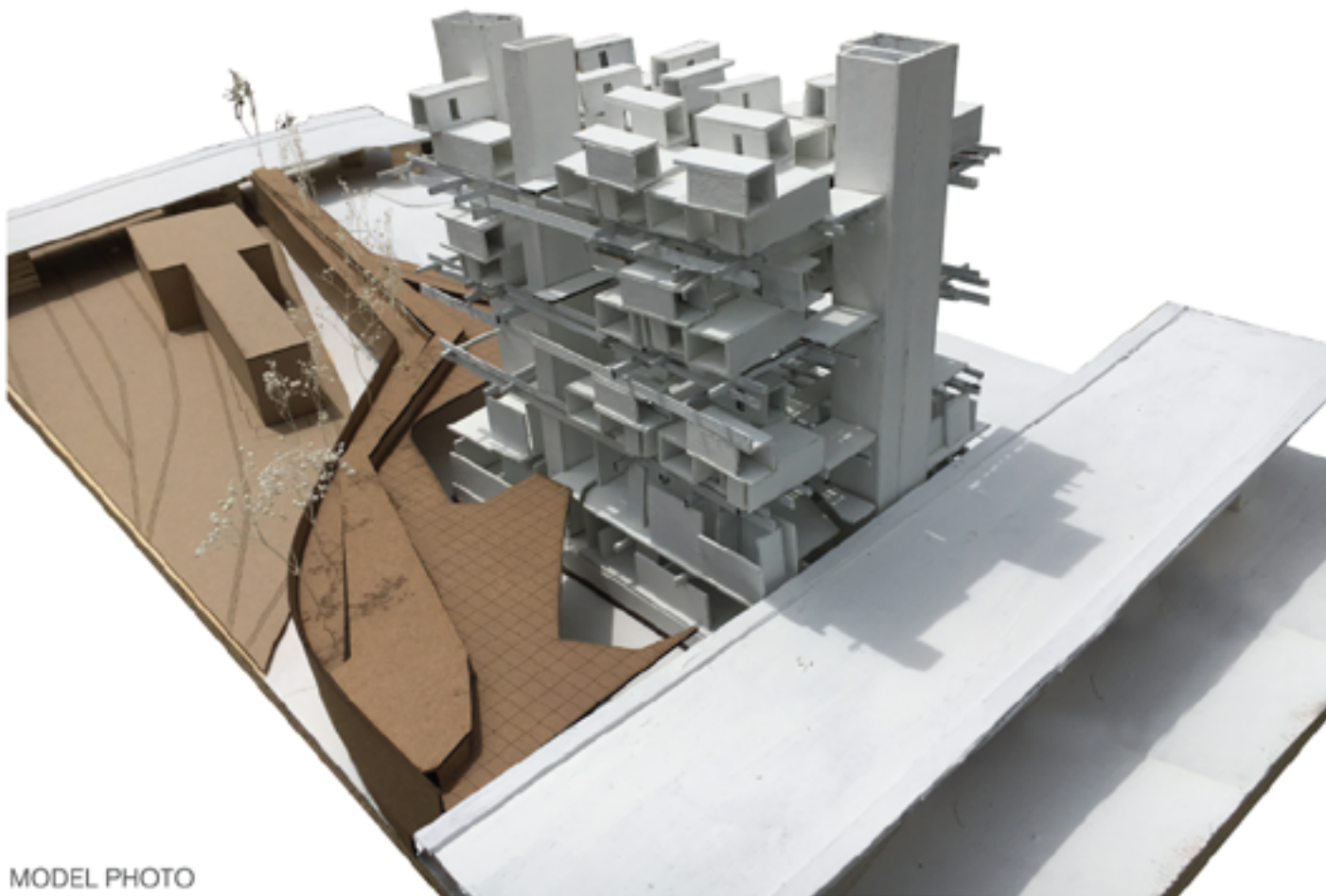
#### MARKET LEVEL KEY

- 1 - ENTRY
- 2 - PRODUCE
- 3 - DRY GOODS
- 4 - BULK ITEMS
- 5 - SHIPPING / RECEIVING
- 6 - LOADING DOCK
- 7 - LOWER PLAZA
- 8 - SPECIALTY
- 9 - DAIRY / COLD

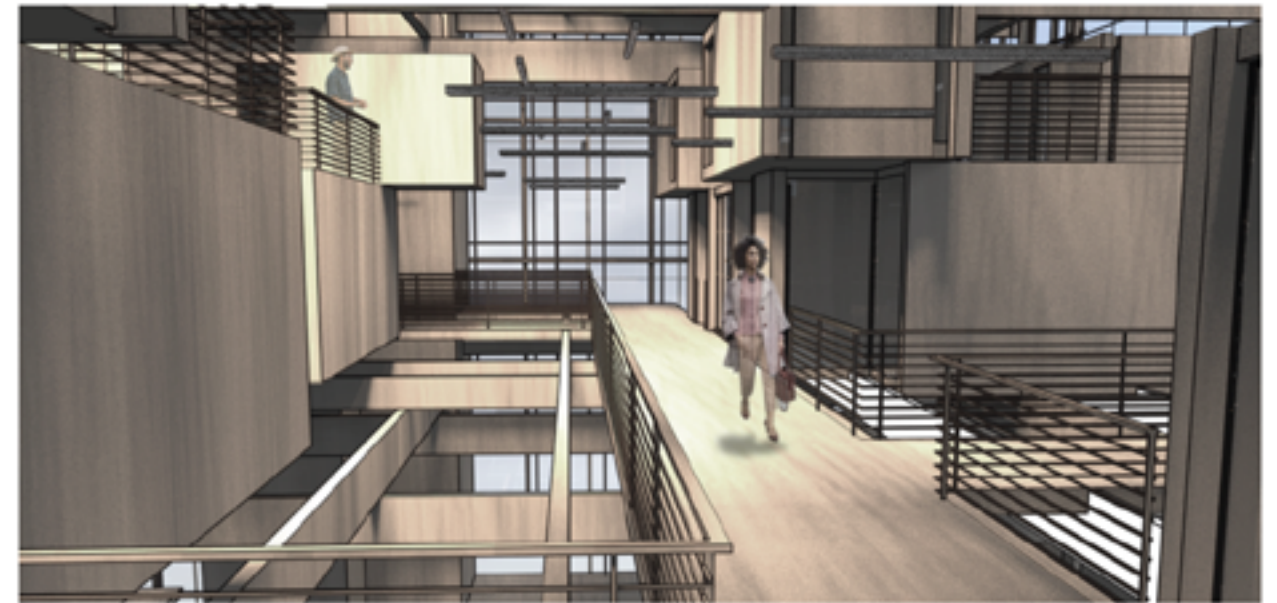




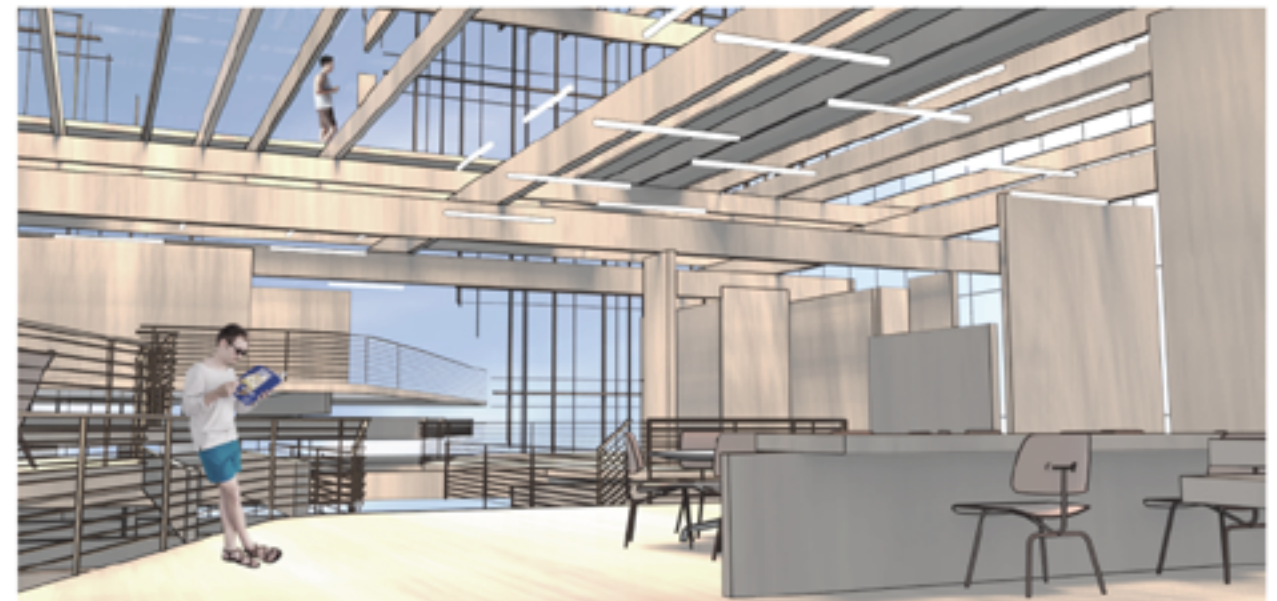
MODEL PHOTO



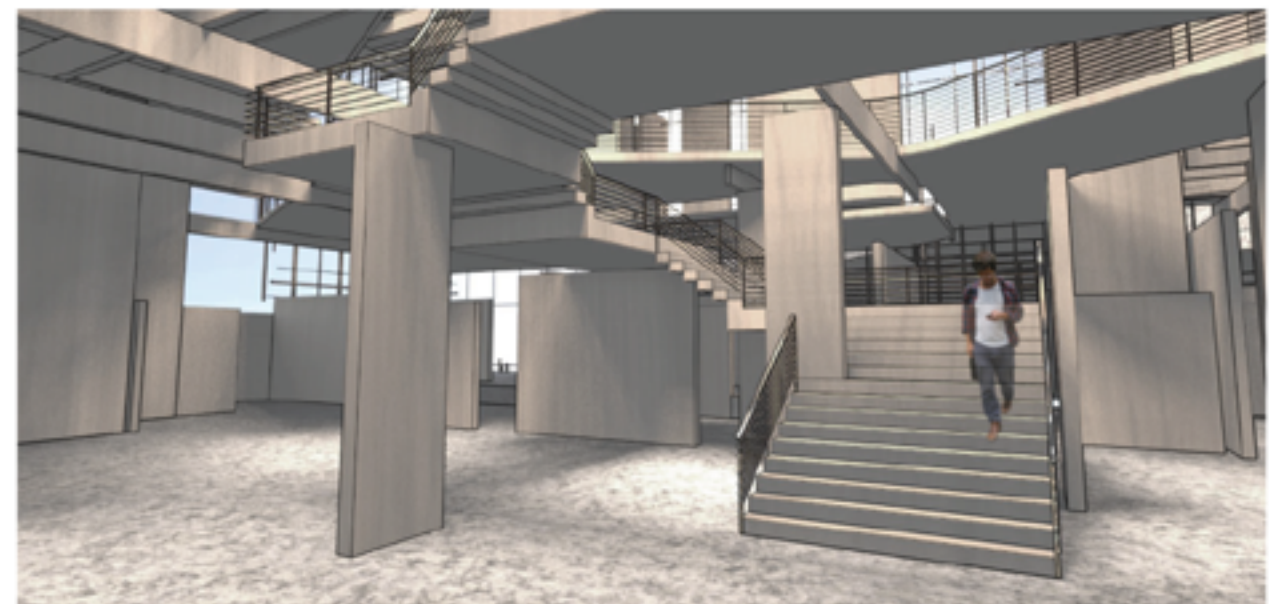
MODEL PHOTO



RESIDENTIAL LEVEL INTERIOR



LIBRARY ANNEX INTERIOR



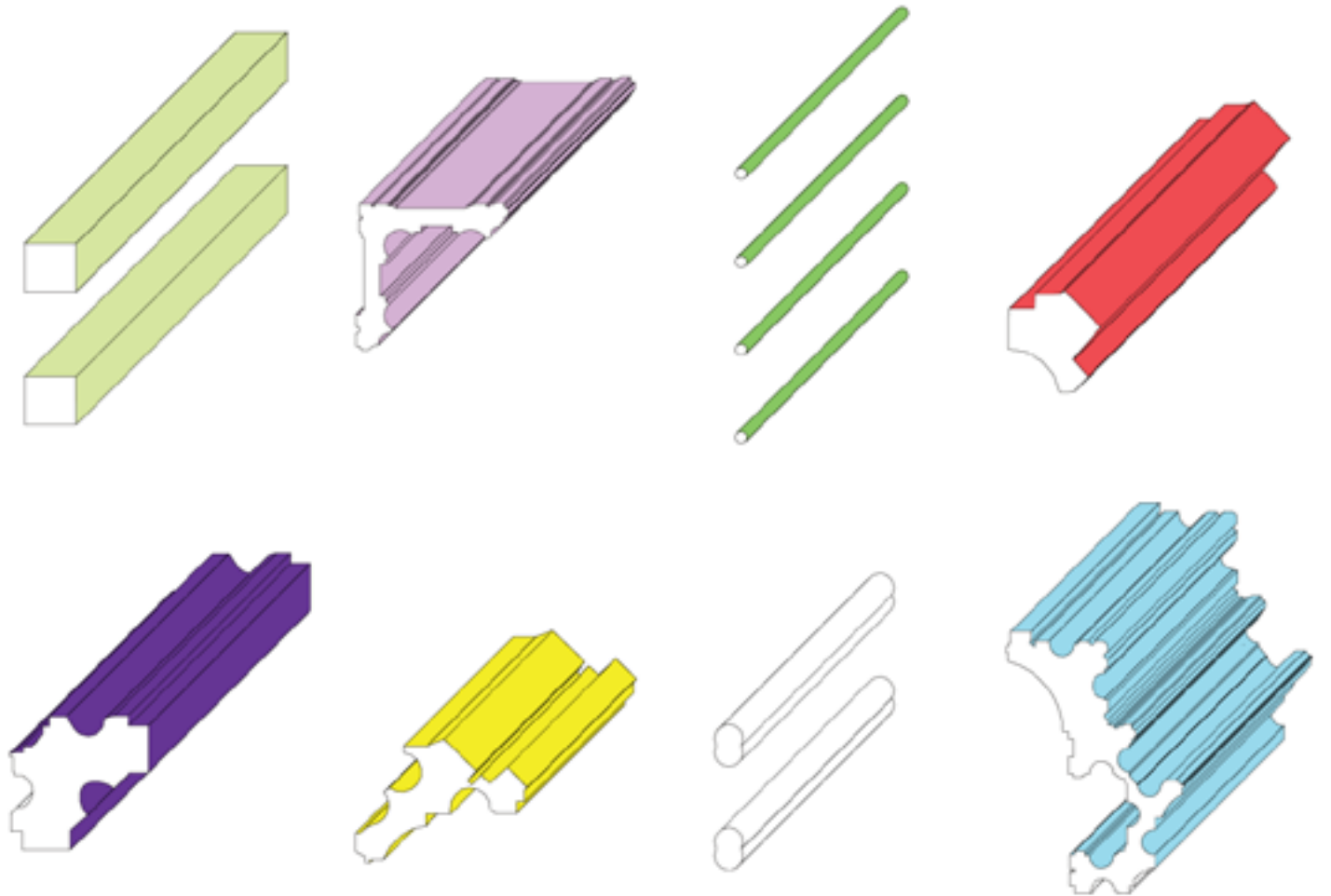
MARKET INTERIOR



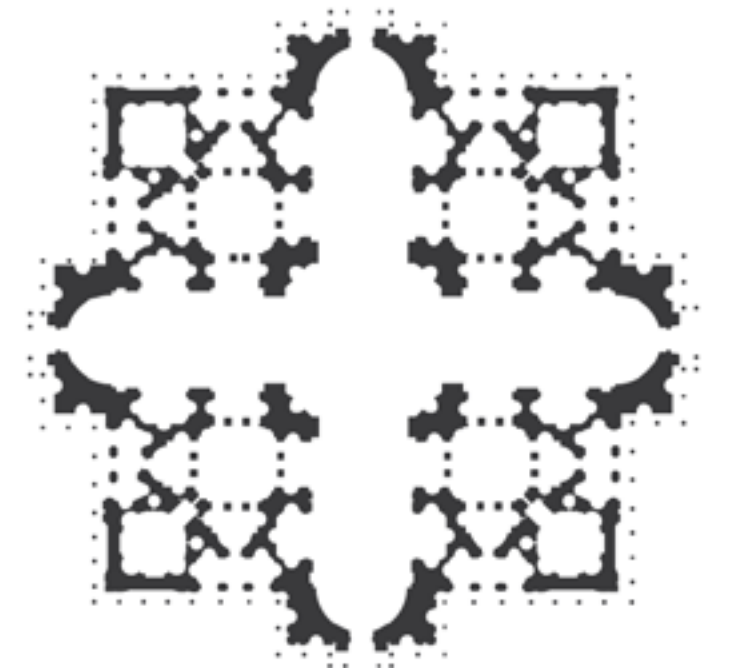
# Smear

form-making theoretical exercise

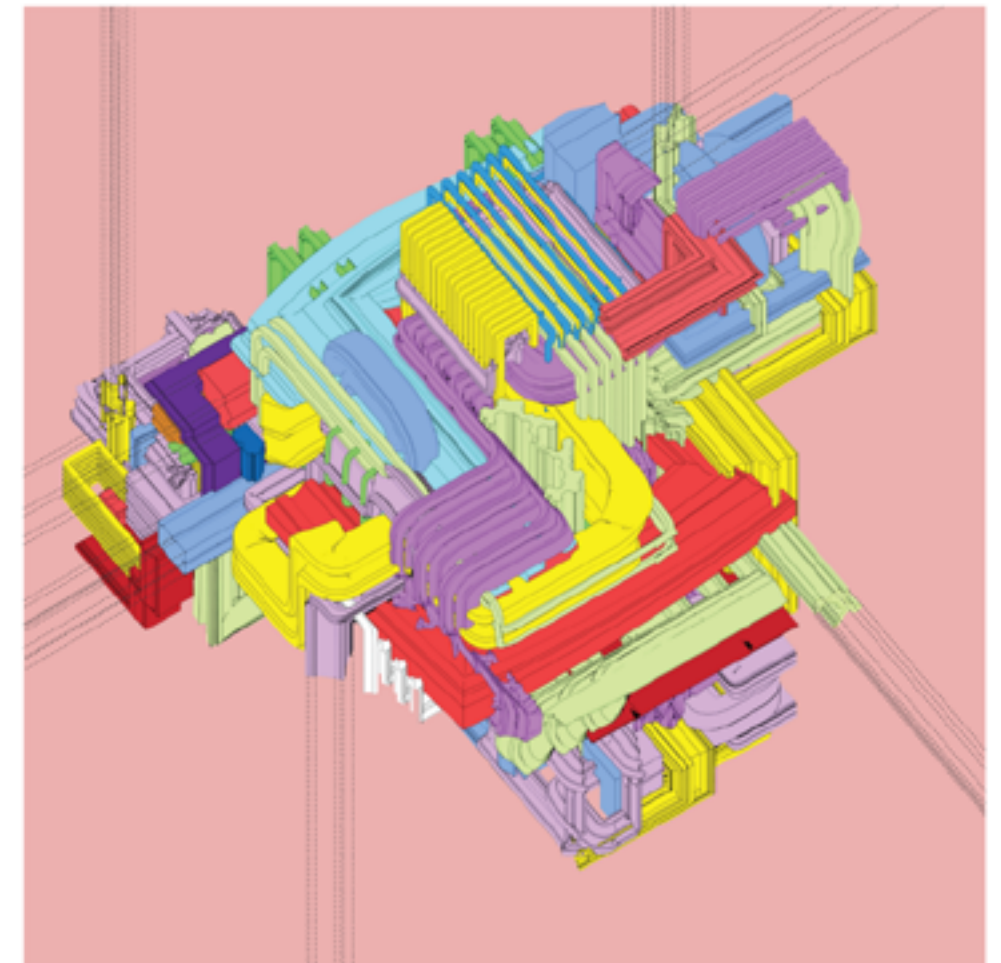
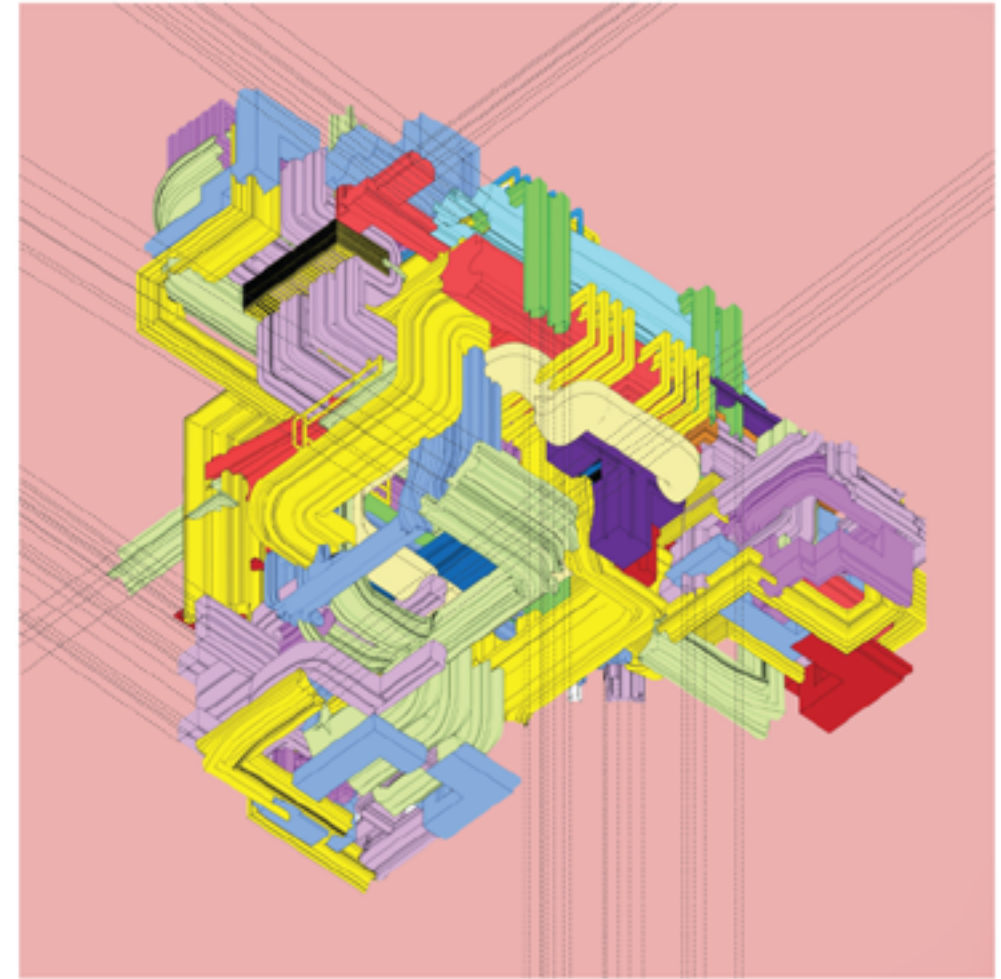
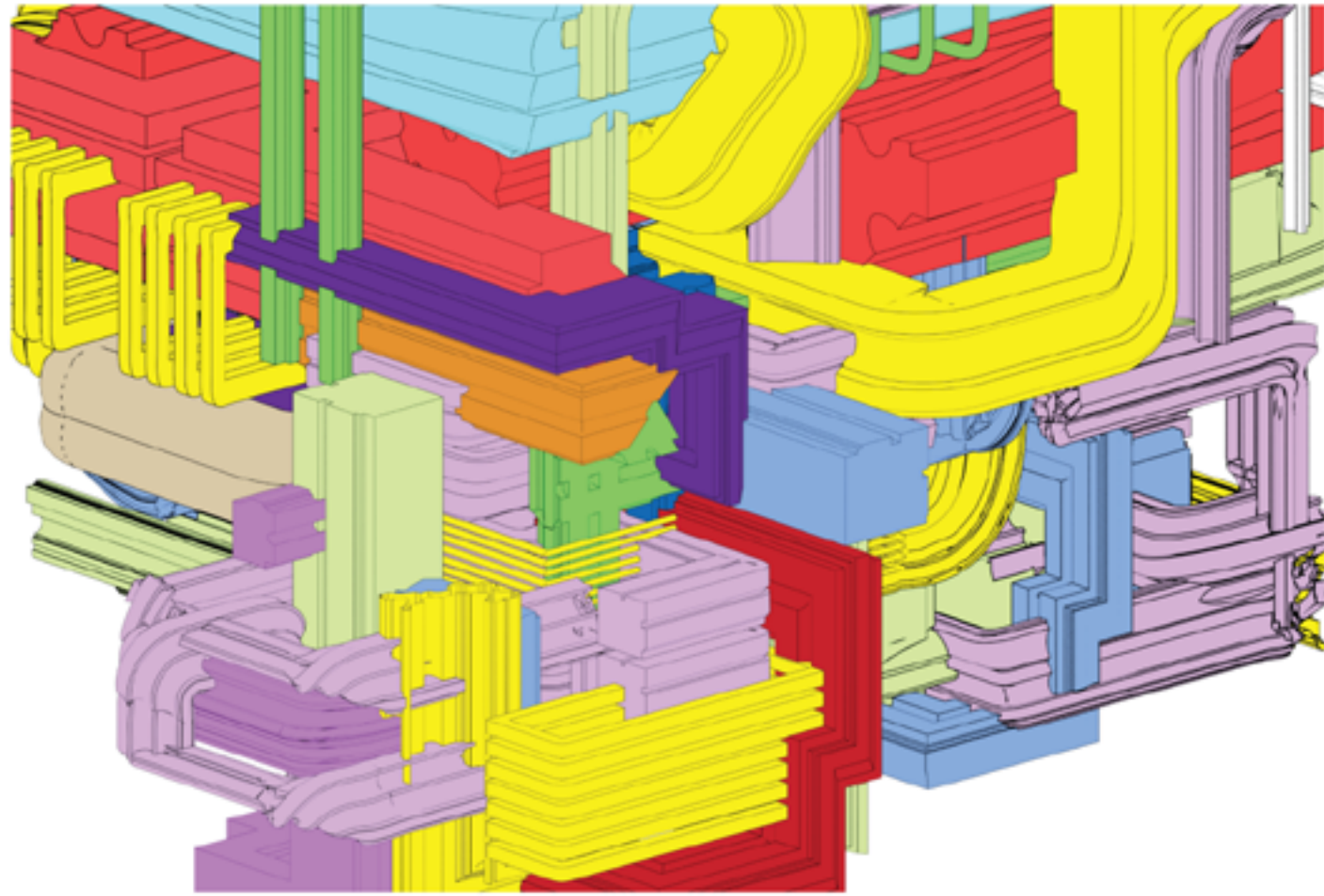
Smear works as an exercise in farther removal of authorship. This is executed by beginning with the ready-made of Bramante's plan for St. Peter's Basilica. The qualities of the poche are isolated into "brushstroke" elements that are then swept along lines I defined. The result within that line are entirely up to the software's processes of interpreting these strokes resulting in sometimes glitchy geometries and unexpected surprises.



POCHE' FRAGMENTS









# Beacon

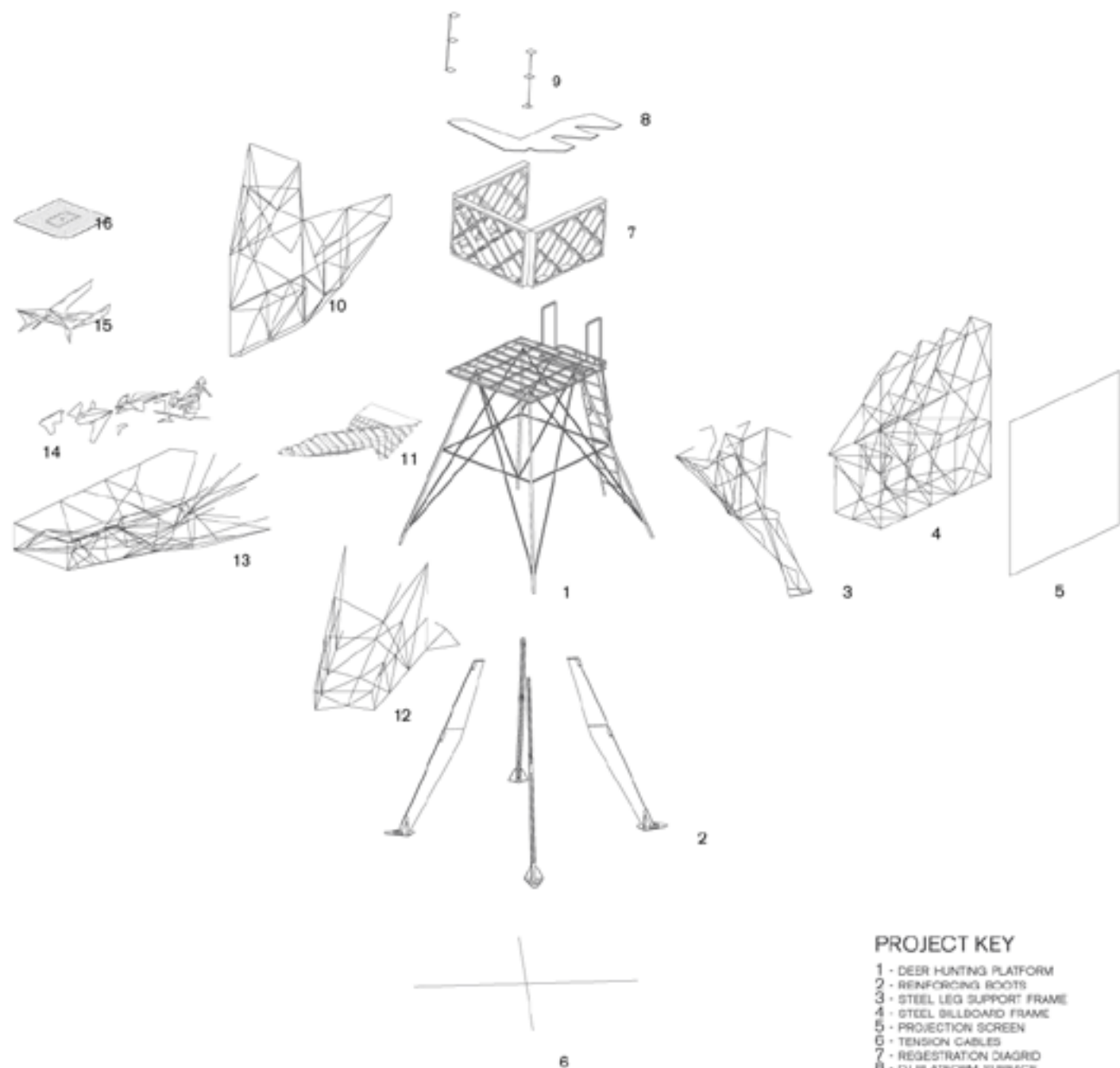
professor : keth kaseman

project group : darcy brown, colin grill, michael kollner, richard dempsey, carly todd,  
monica magcalas, shantanu vijayakumar, clay kinningham,

Beacon is an experimental armature using AR (augmented reality) for construction without the need for expected architectural drawings. The project was developed through digital modelling, and translating the model to a 1 to 1 hologram that was referenced to needed tools for prefabrication and later assembly. The process of creating this project was an enlightening look into future potentials in the construction of complex geometries.





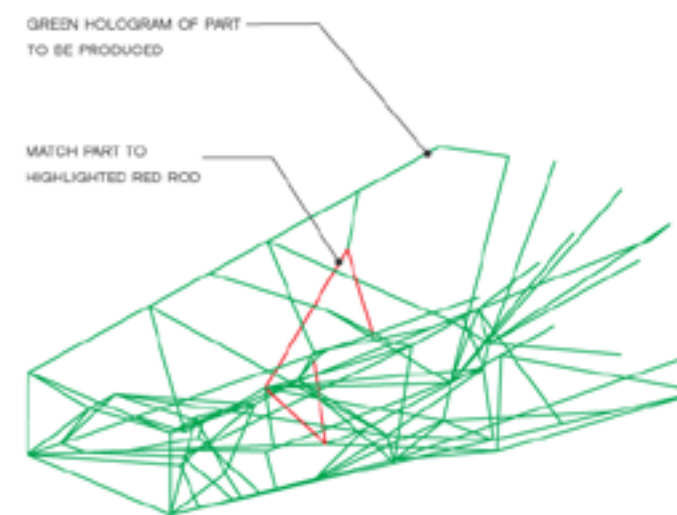
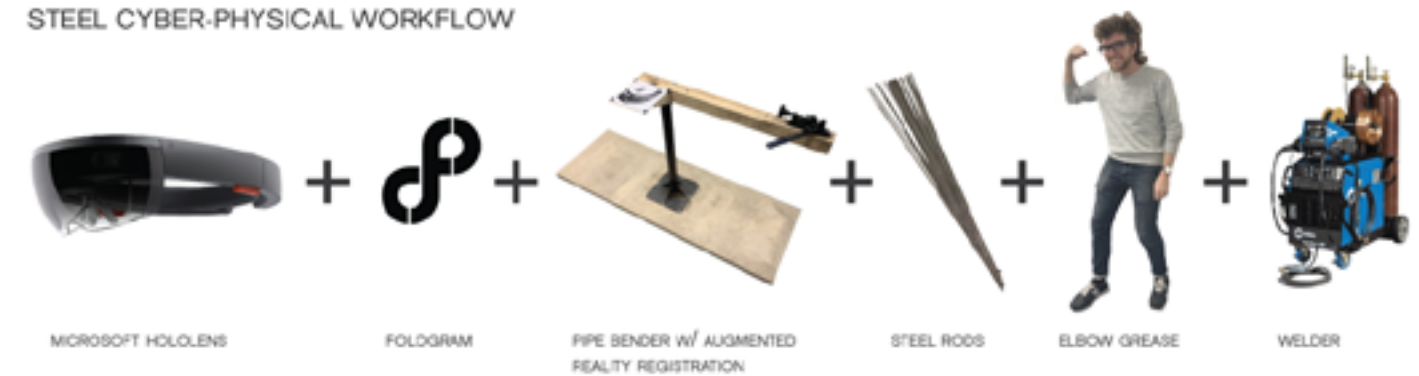


#### PROJECT KEY

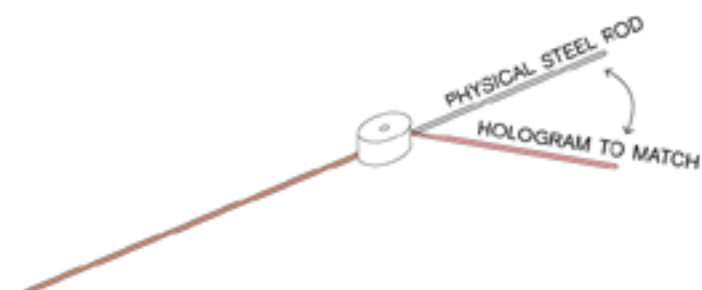
- 1 - DEER HUNTING PLATFORM
- 2 - REINFORCING ROOTS
- 3 - STEEL LEG SUPPORT FRAME
- 4 - STEEL BILLBOARD FRAME
- 5 - PROJECTION SCREEN
- 6 - TENSION CABLES
- 7 - REGISTRATION DIAGRID
- 8 - DJ PLATFORM SURFACE
- 9 - STEEL CORNER BRACKETS
- 10 - STEEL BACKSPAN AND LIGHTING ARMATURE
- 11 - PLYWOOD WAFFLE SUPPORT ARM
- 12 - LOWER STEEL CANTILEVER
- 13 - UPPER STEEL CANTILEVER
- 14 - NODE BLOOM GUSSETS
- 15 - ALUMINUM LANDING PAD SUPPORTS
- 16 - DRONE LANDING PAD

PROJECT COMPONENTS

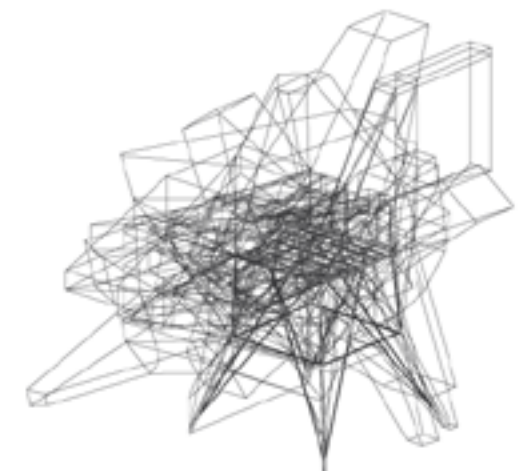
#### STEEL CYBER-PHYSICAL WORKFLOW



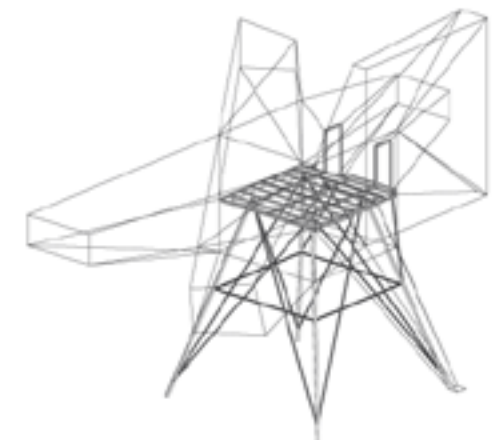
ASSEMBLY HOLOGRAM DRAWING



HOLOGRAM BENDING DIAGRAM



DESIGN PERMUTATIONS

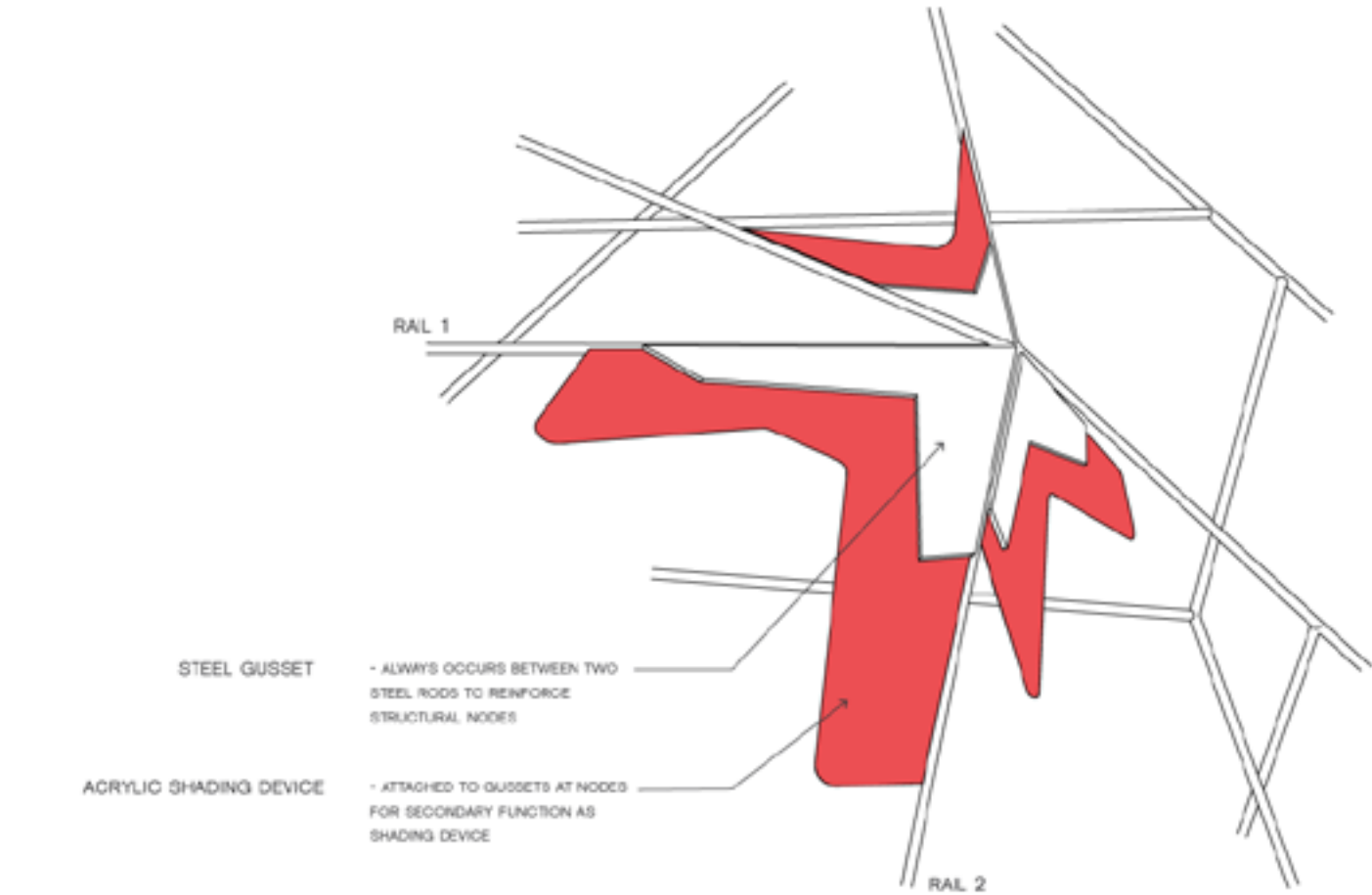


DESIGN DECISIONS TO BE DEVELOPED





BLOOM SHADING DIAGRAM



BLOOM NODE GUSSET / SHADING DEVICE



BLOOM NODE TEST FITTING



BLOOM NODE LOCATION REGISTRATION



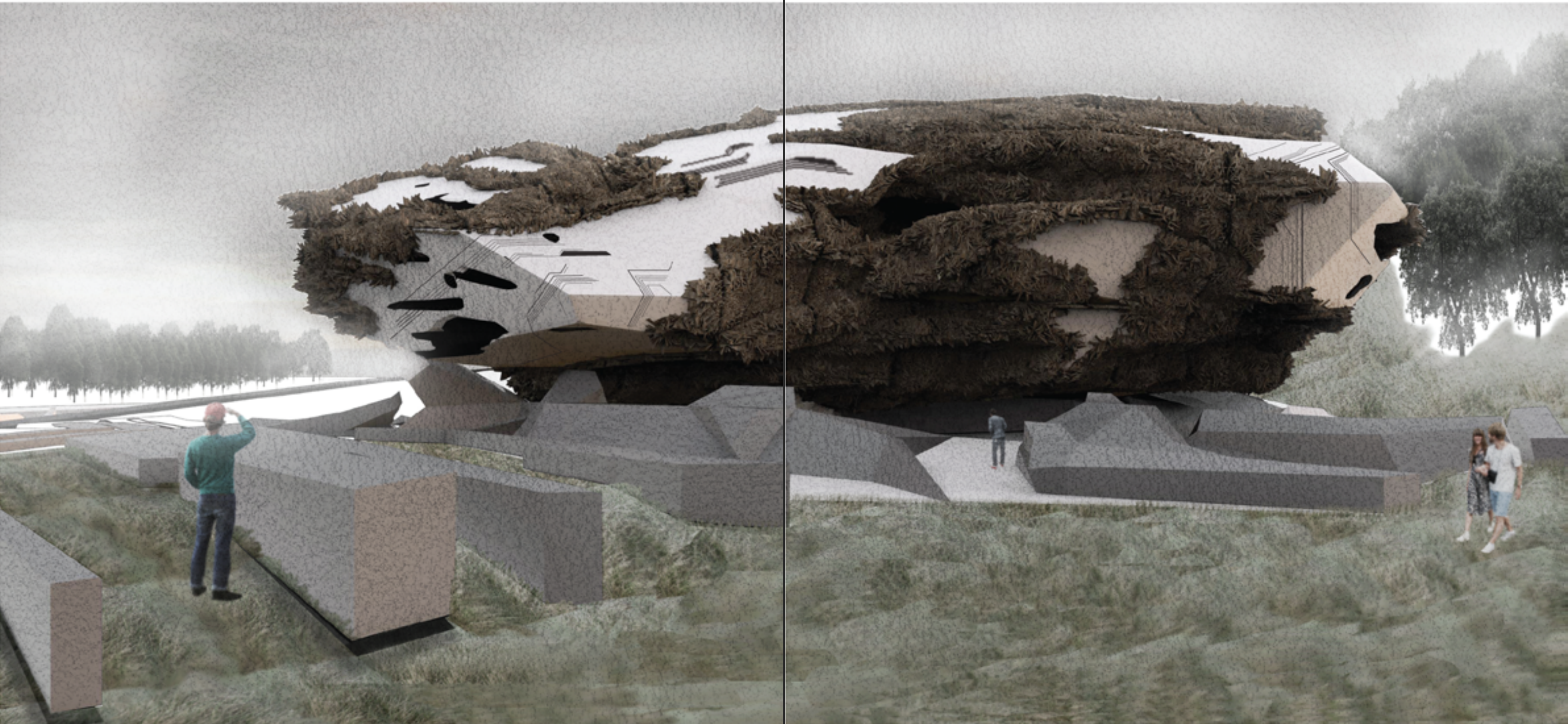




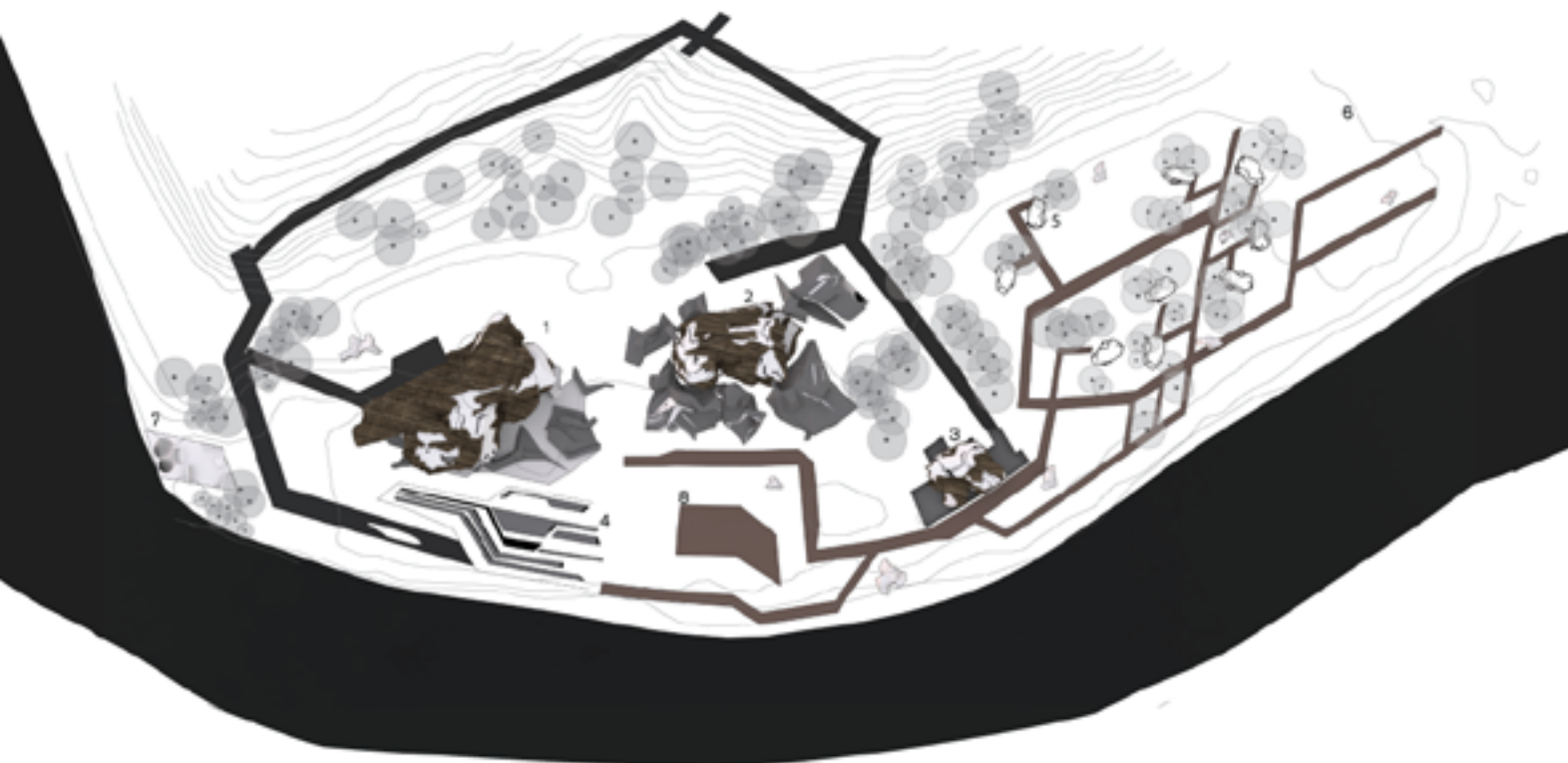
# French Broad River Park Redevelopment

asheville, north carolina  
professor : dan brown

Diverging from the expected approach to architectural context by exploring different time-lines and deep context of the geological underpinnings of place. Asheville's geology is composed of schist bedrock which inspired not only building form, but also the site's organizational "plates". The hard edged stone-like forms are visually softened by using a recycled wood rainscreen, as well as adding visual complexity based on viewer perspective and distance. This project consists of three major building objects containing a recreation center, an outdoor outfitters shop, and a cafe. There are also cabins scattered throughout the site for vacation rental.





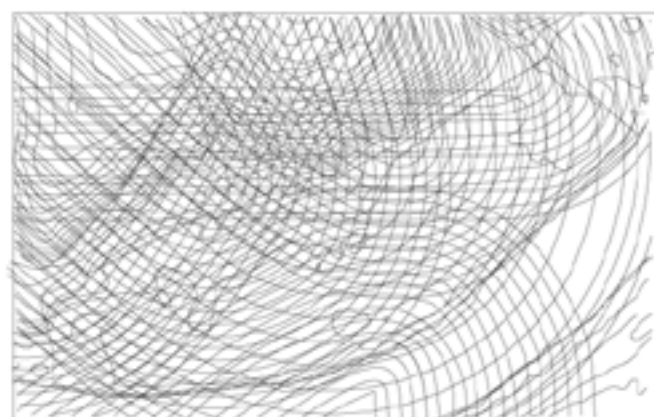


SITE PLAN

- 1. PRIMARY
- 2. SECONDARY
- 3. TERTIARY

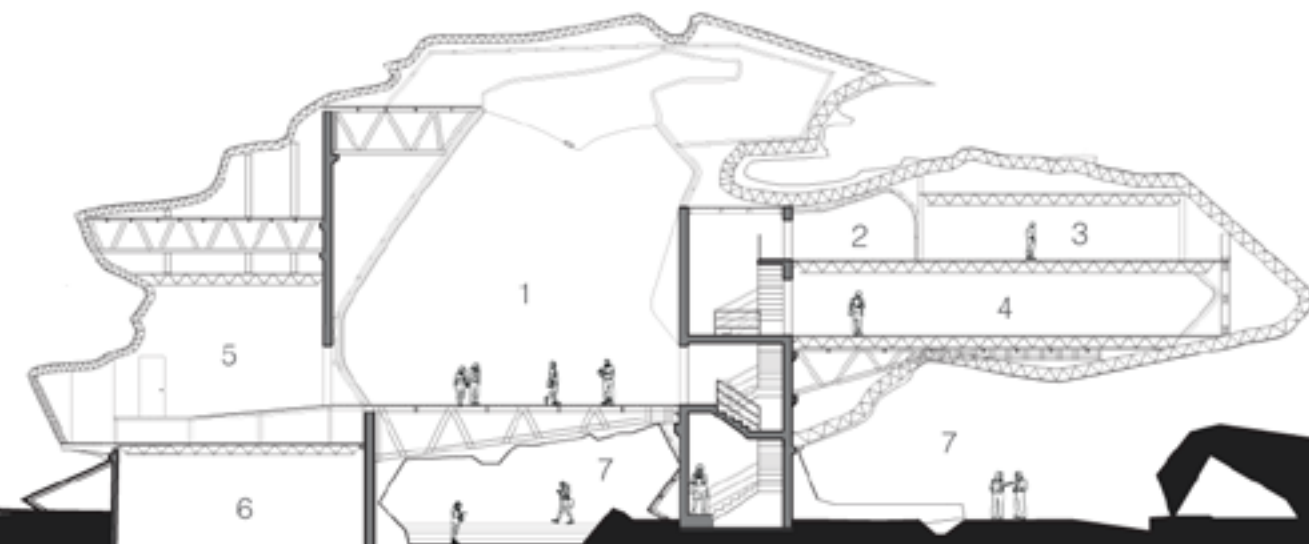


ORGANIZATIONAL PLATES



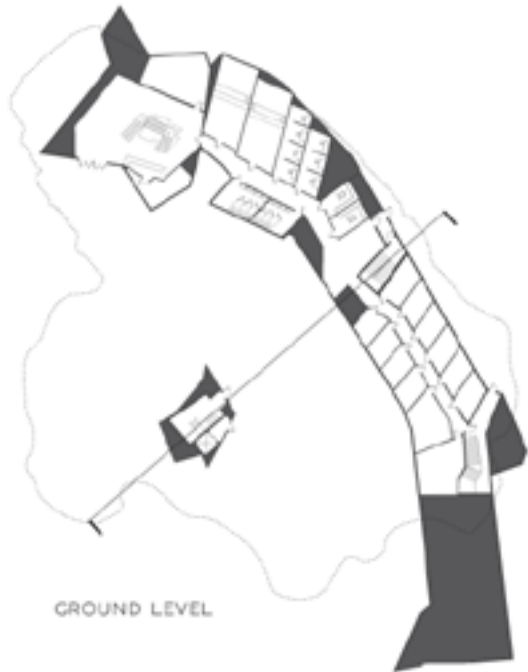
PARABOLIC ORGANIZATIONAL SYSTEM

- SITE KEY
- 1.) RECREATIONAL CENTER
  - 2.) BIKE AND OUTFITTER SHOP
  - 3.) CAFE
  - 4.) PARKING
  - 5.) CABINS
  - 6.) TRADITIONAL CAMPING
  - 7.) CONCRETE SKATEPARK
  - 8.) DOG PARK

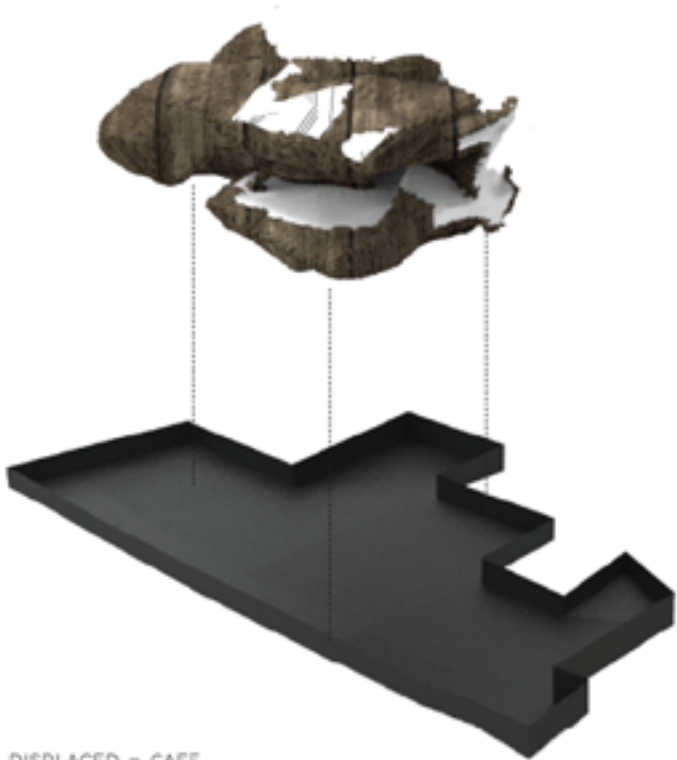
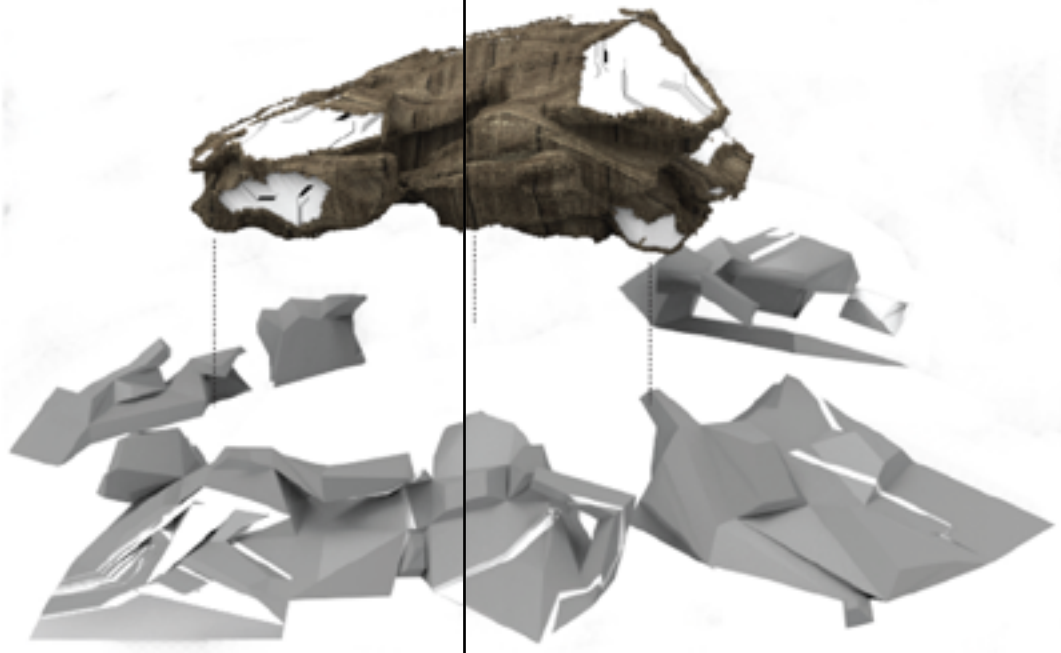
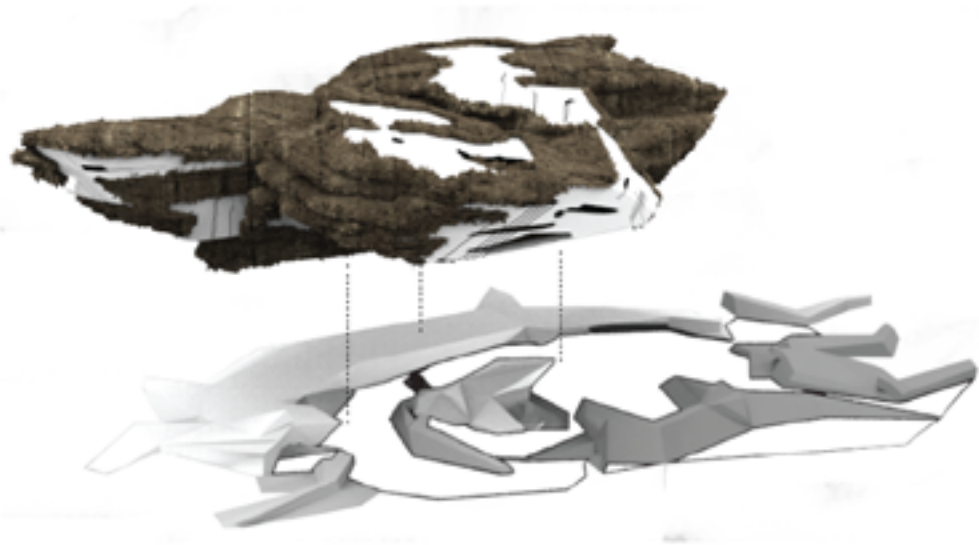


- RECREATIONAL CENTER KEY
- 1.) MIXING ATRIUM
  - 2.) HALLWAY
  - 3.) CAFE
  - 4.) INSTRUCTIONAL GYM STUDIO
  - 5.) RECEIVING AND STORAGE
  - 6.) RACQUET BALL COURT
  - 7.) COVERED OUTDOOR AREA

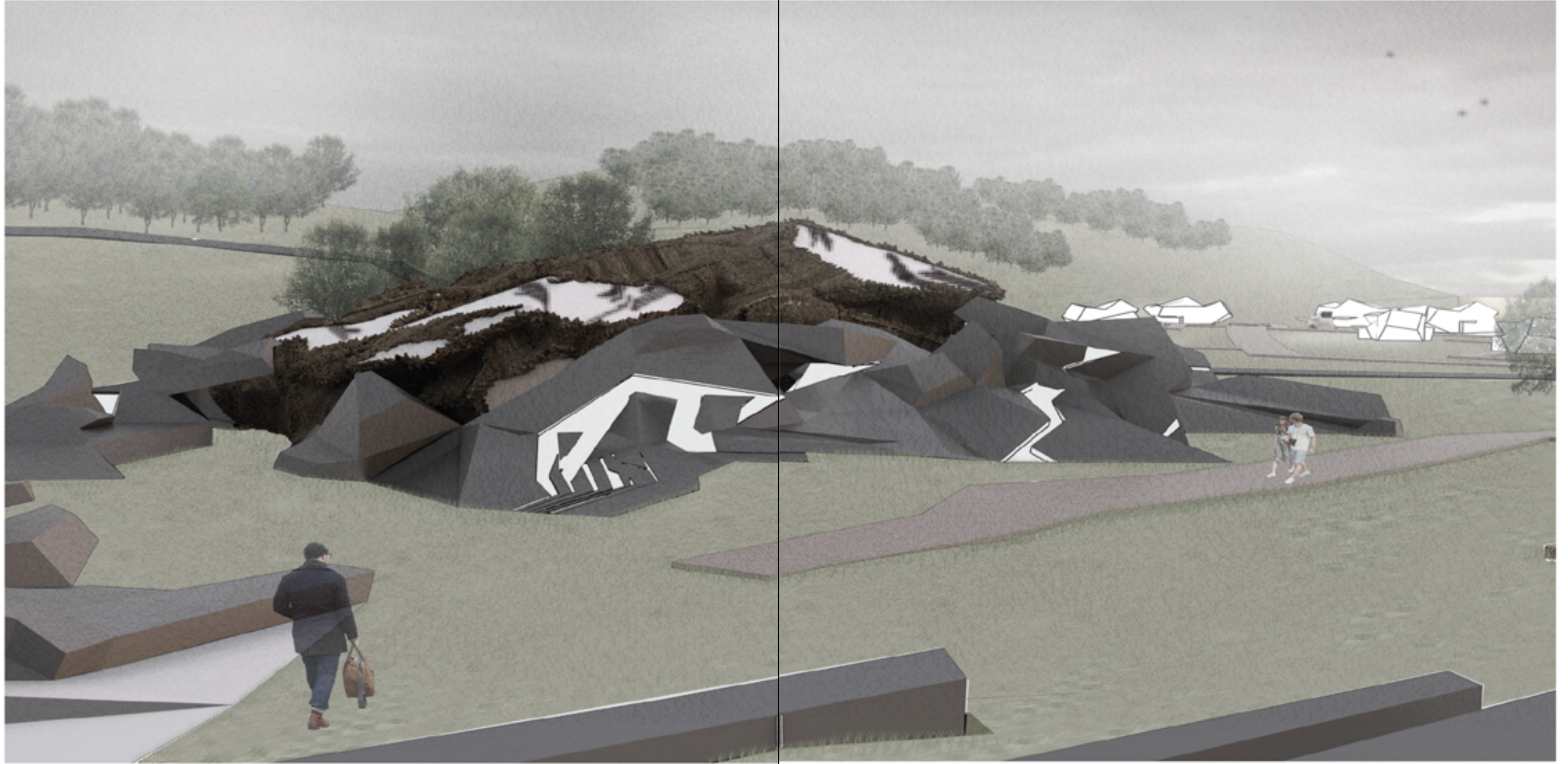
RECREATIONAL CENTER PLANS (LEVITATED OBJECT)



OBJECT GROUNDING METHODS







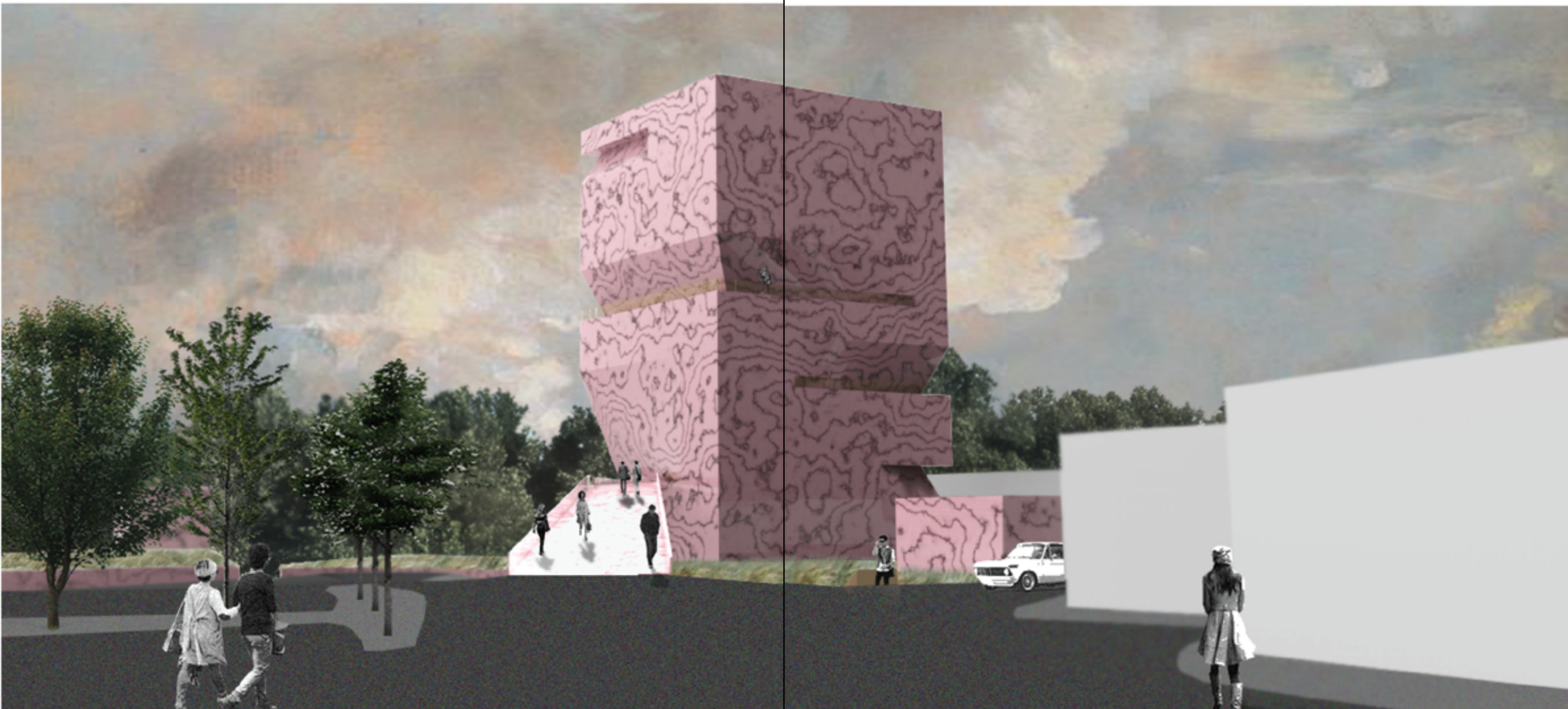
OUTFITTERS SHOP PERSPECTIVE



# Liminality – A Space For Waiting

atlanta, georgia  
professor : brian bell

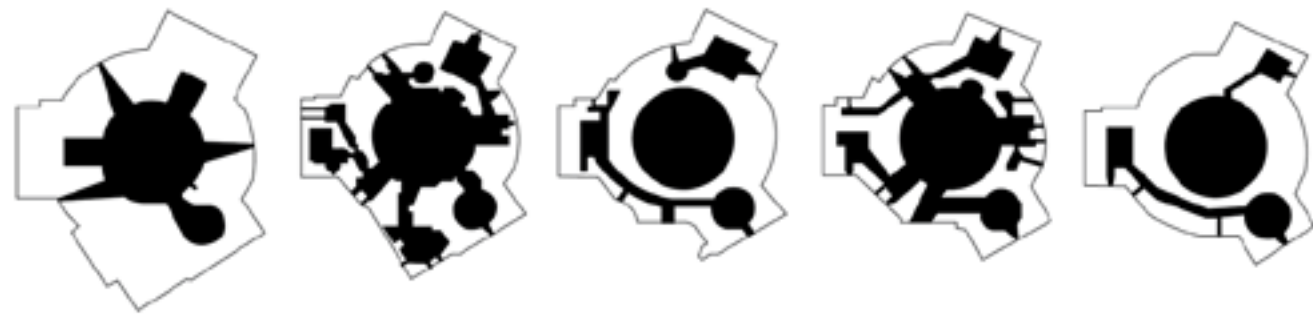
Slowing down is one the most important driving conceptual elements that allows one to perceive liminal spatial changes. The function of this project is a major rail station on Means street in Atlanta, Georgia, but it's more about the act of waiting and how space can change based on ones perception due to speed. The formal generation allows for those in the station to ponder the absent and remaining figures within the atrium of the building. One can begin to piece the puzzle together, but can never truly understand which architecturally elevates the waiting experience.



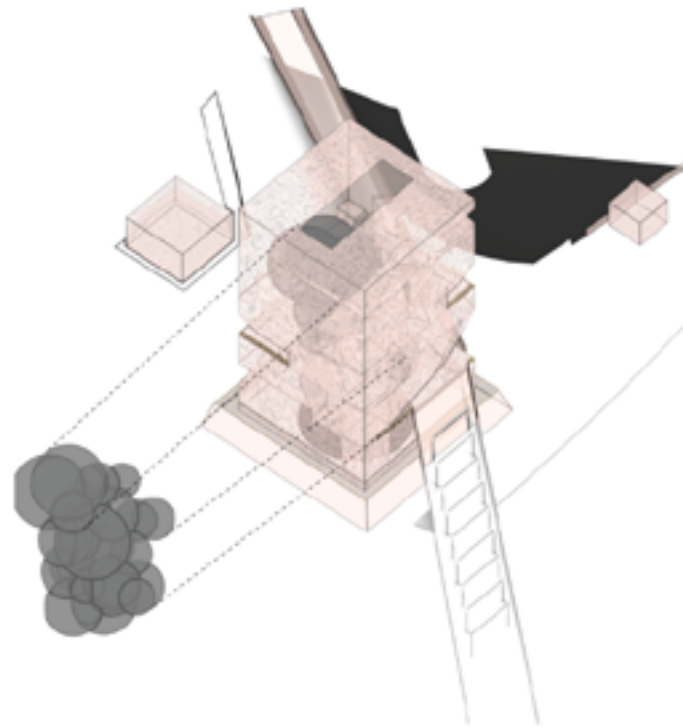




CASTLE ORFORD 1165 - 1173



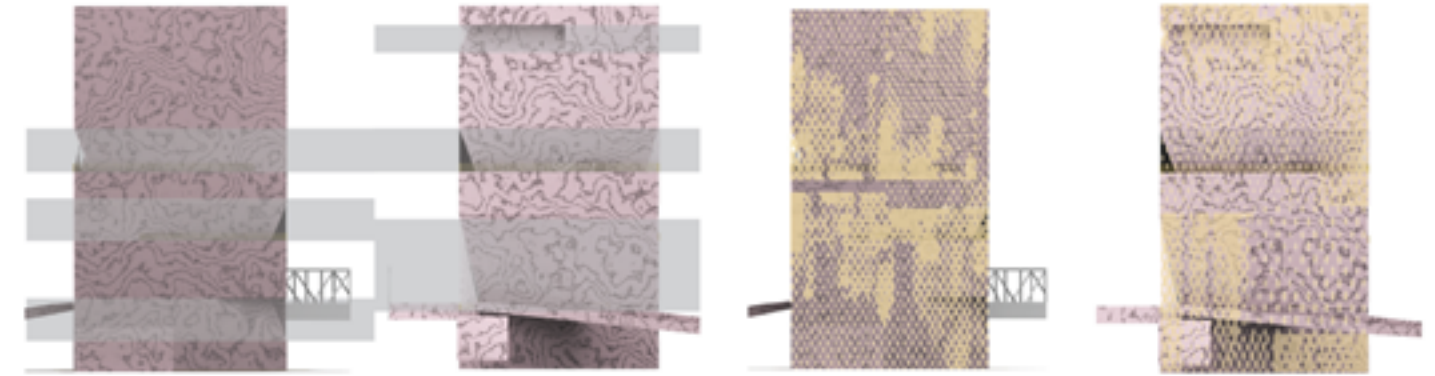
CASTLE ORFORD INVERTED SPATIAL DIAGRAM



ATRIUM FIGURAL ABSENCE RELATIONSHIP DIAGRAM

#### LIMINAL SPACE

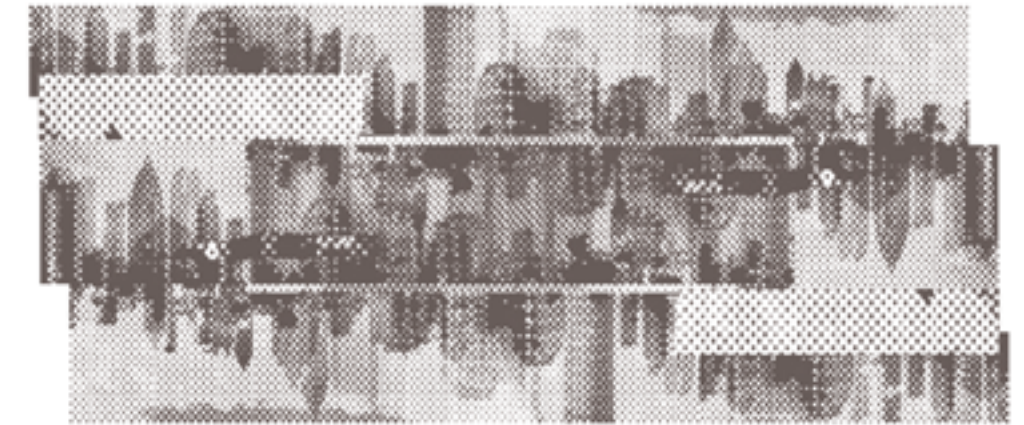
Liminal spaces are transitional or transformative spaces. They are waiting areas between one point in time and space and the next. This constitutes space on the verge of something as we experience in travel.



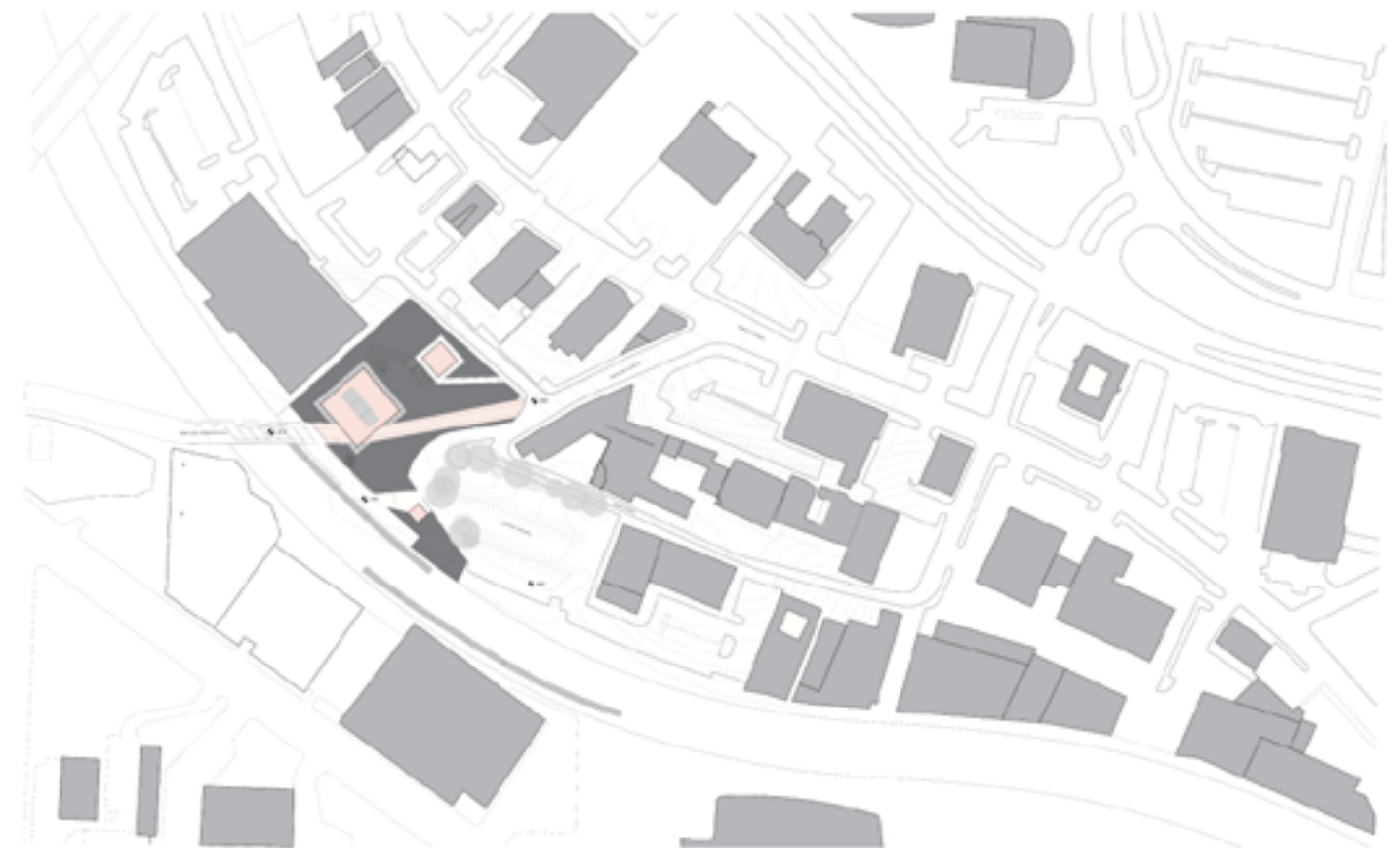
REDACTION - FIGURAL CUTS

EXTERIOR LIGHTING - PERFORATION

Gordon Bunshaft's Beinecke Library served as an inspiration for the aperture strategy. By allowing varying thickness in the synthetic marble cladding a zip-tone image of the surrounding city could project itself both in and out depending on time of day, interior or exterior.

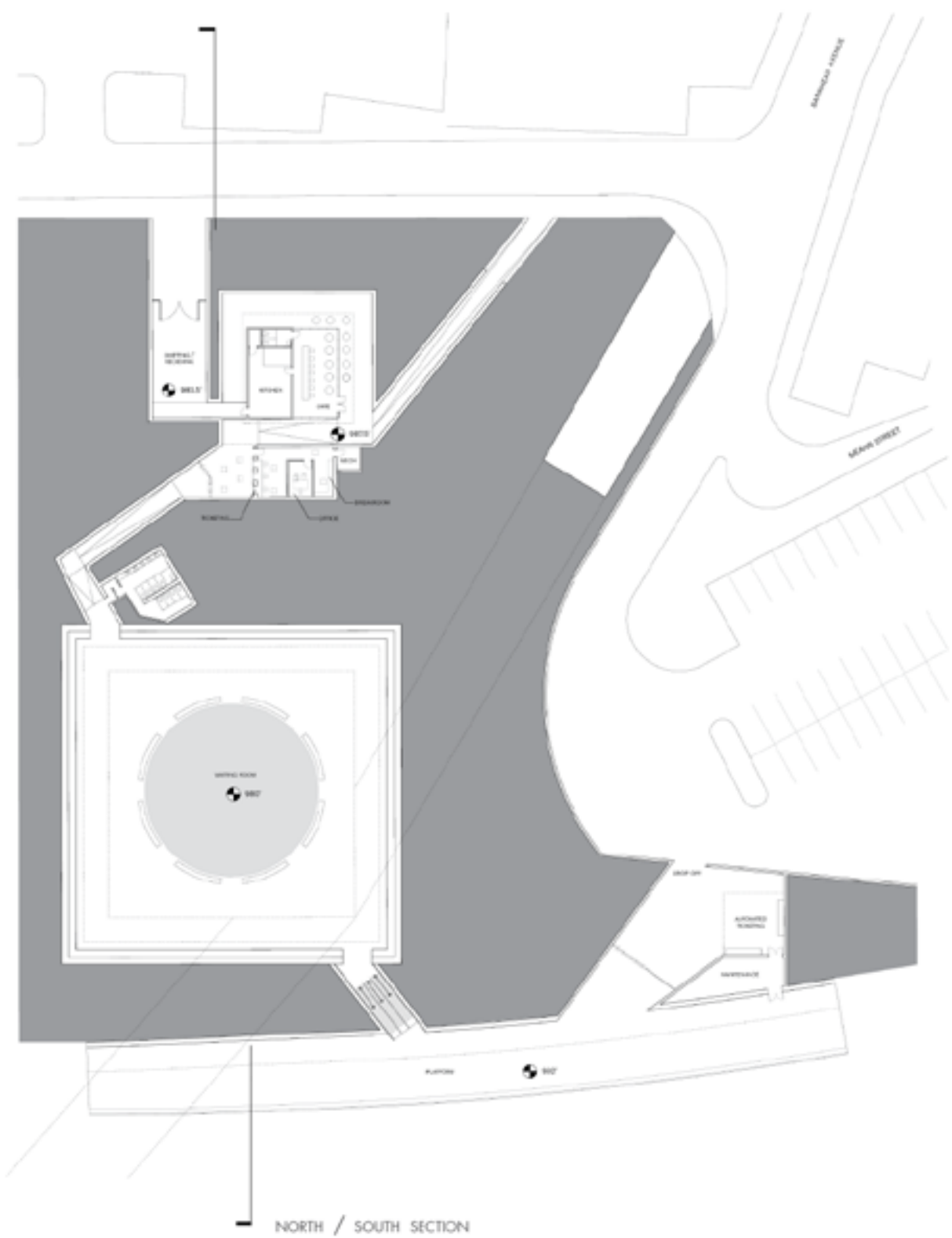


EXTERIOR LIGHTING PERFORATION - PATTERN STUDY



SITE PLAN



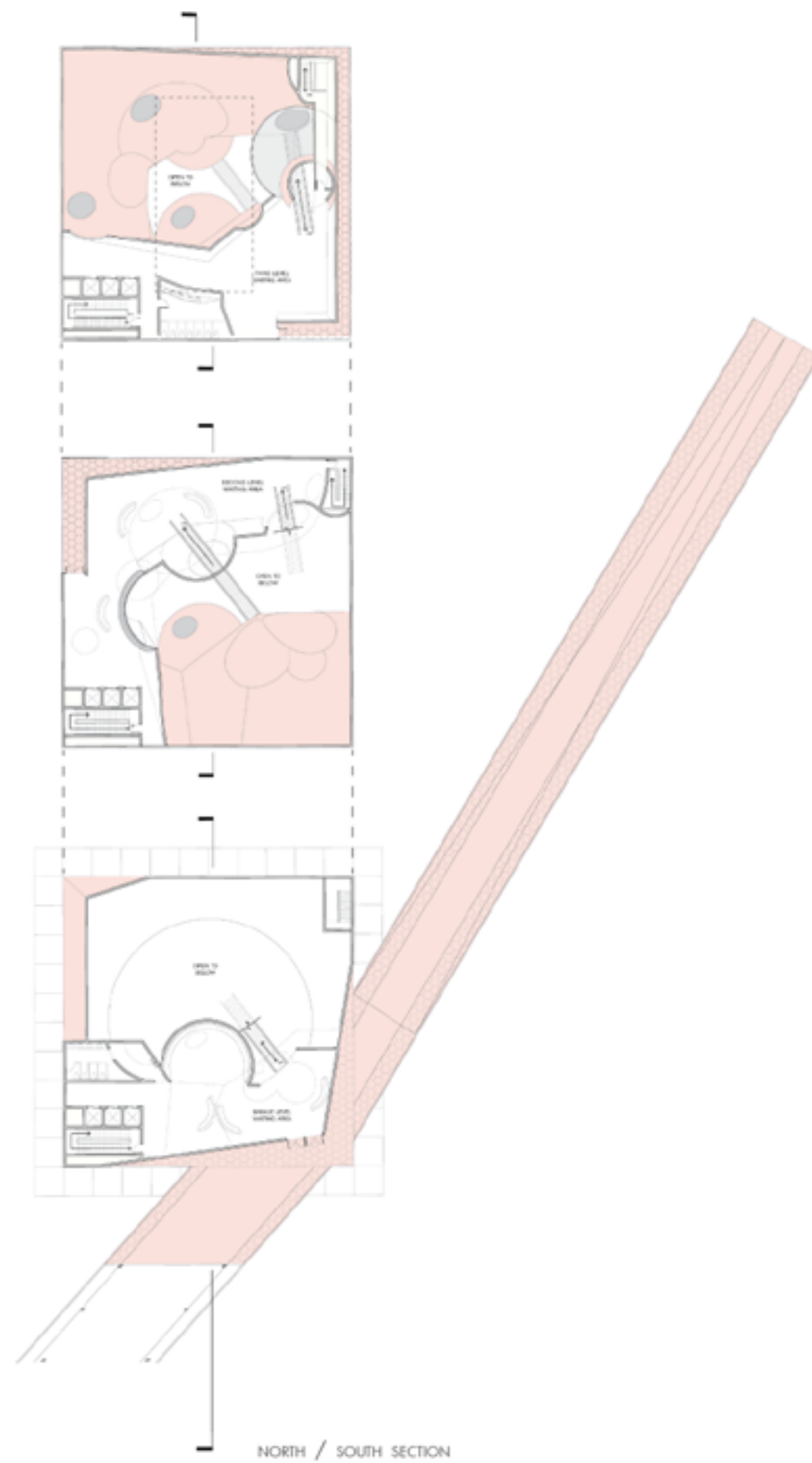


WAITING ROOM, CAFE, AND TICKETING PLAN

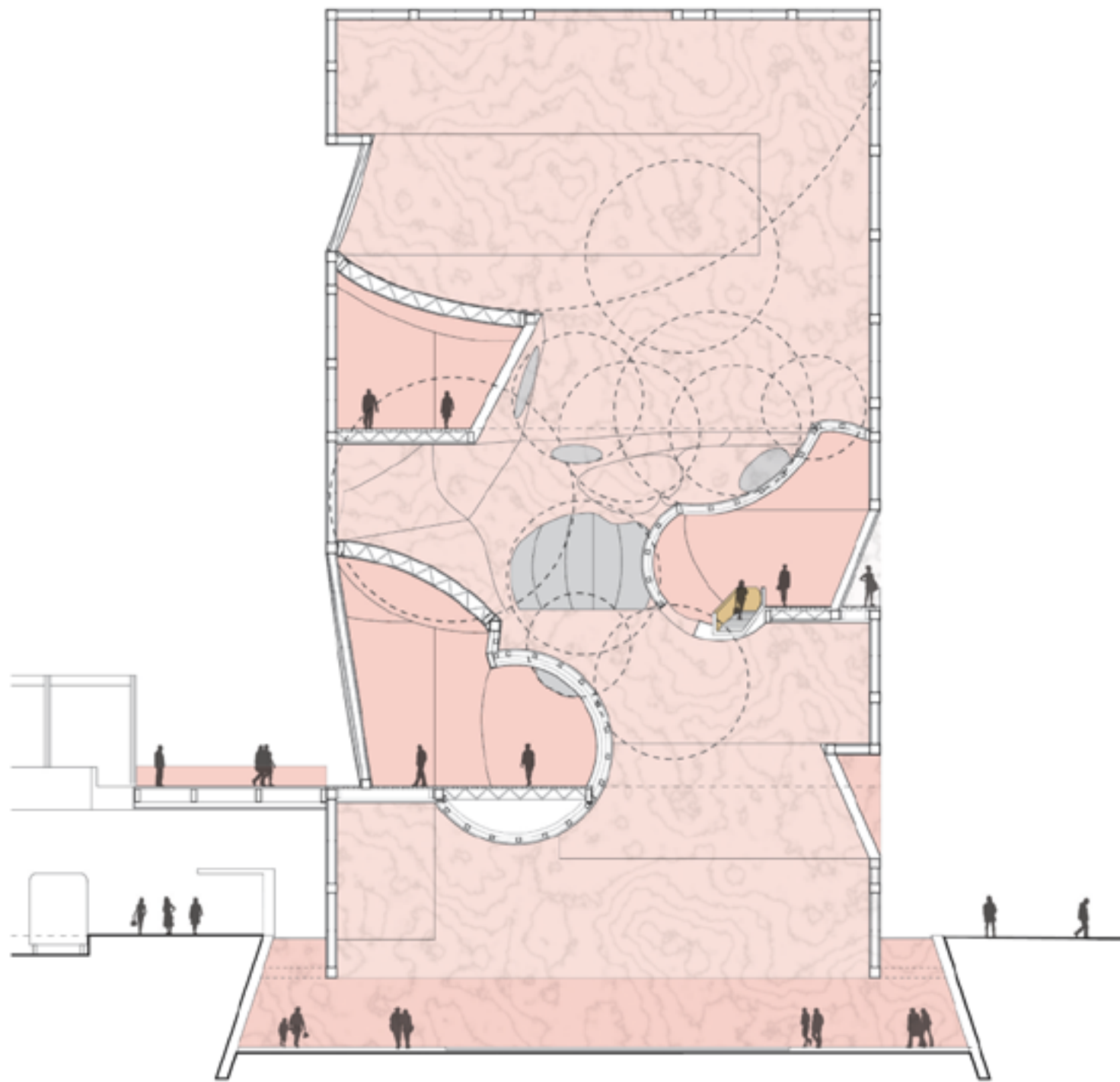
THIRD LEVEL PLAN

SECOND LEVEL PLAN

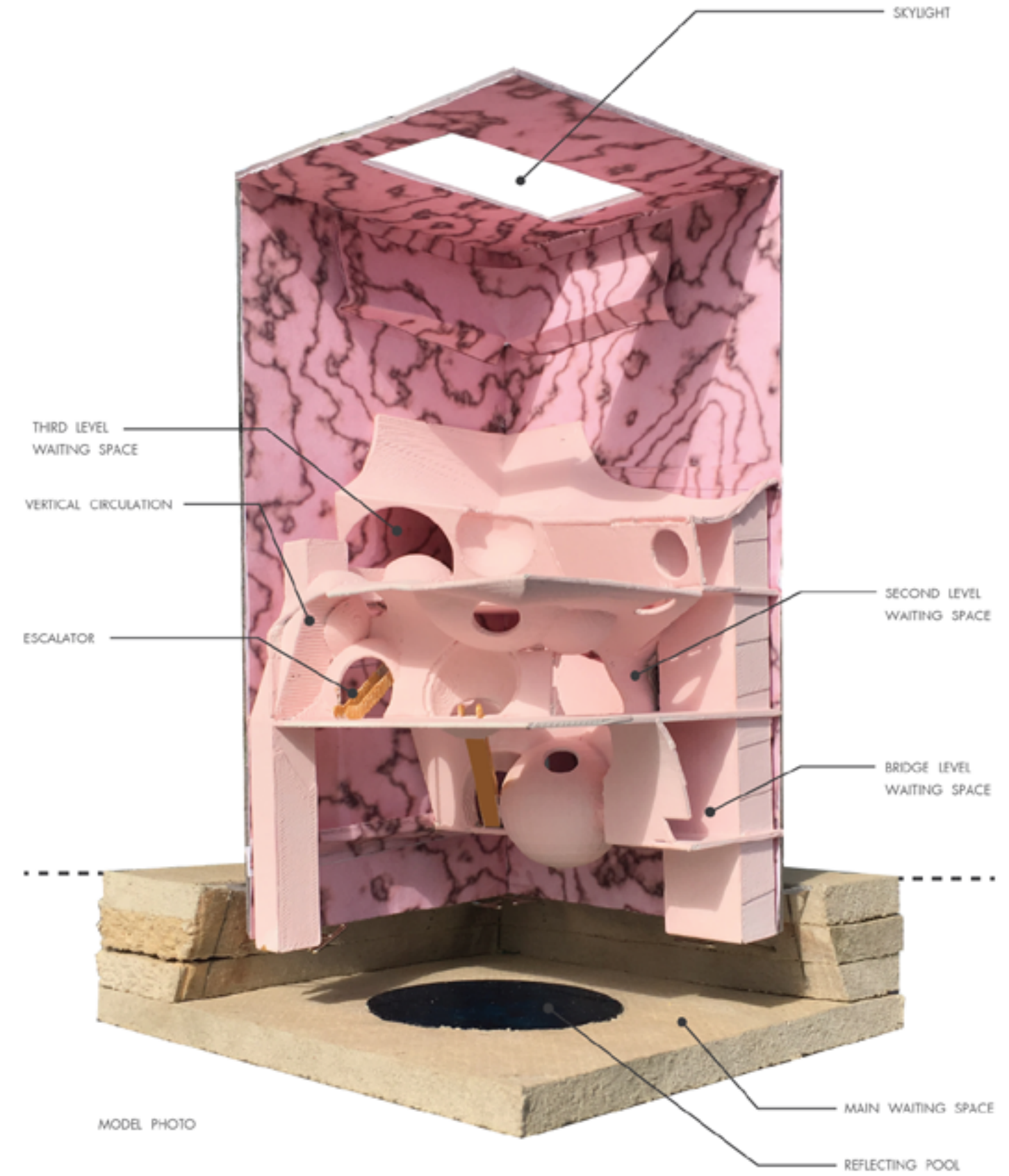
BRIDGE LEVEL PLAN







NORTH / SOUTH SECTION



MODEL PHOTO



# Surface Tension

utah state univeristy college of science, logan, utah  
Collaboration with Amy Landesberg



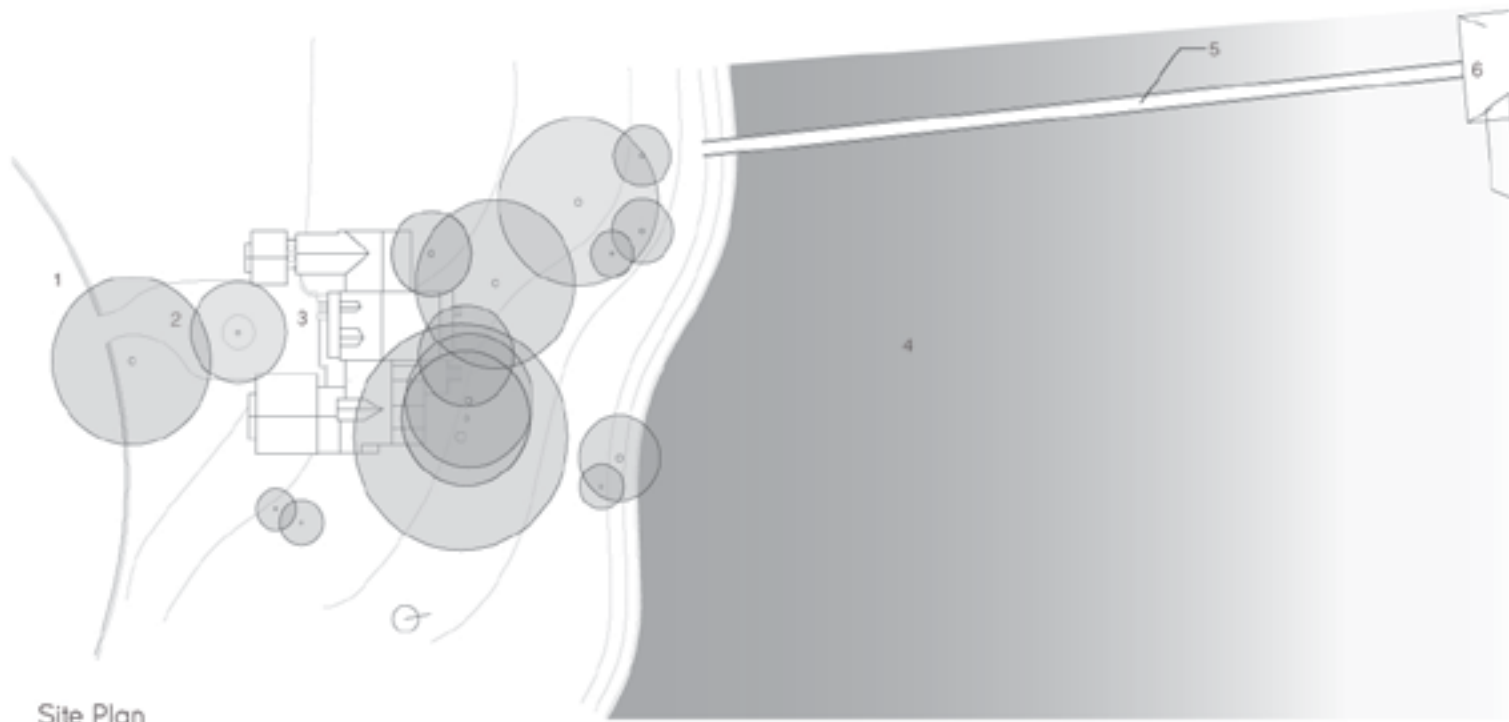


# Dinkler Residence

wilmington island georgia  
Savannah Magazine : Homes Spring 2016  
Coward Group Architects savannah, georgia







Site Plan

#### Site Key

- 1.) STREET
- 2.) DRIVEWAY
- 3.) ENTRY
- 4.) MARSH
- 5.) PIER
- 6.) DOCK / BOAT STORAGE



#### Plan Key

- |                 |                      |                        |
|-----------------|----------------------|------------------------|
| 1.) LIVING ROOM | 8.) TWO CAR GARAGE   | 15.) LIBRARY           |
| 2.) DINING      | 9.) ONE CAR GARAGE   | 16.) BEDROOM           |
| 3.) KITCHEN     | 10.) HVAC AND GARAGE | 17.) HALLWAY / GALLERY |
| 4.) LAUNDRY     | 11.) MASTER CLOSET   | 18.) BEDROOM           |
| 5.) PANTRY      | 12.) MASTER BATHROOM | 19.) BEDROOM           |
| 6.) MUD ROOM    | 13.) MASTER BEDROOM  | 20.) STORAGE           |
| 7.) FISHING     | 14.) ENTRY           | 21.) STORAGE           |
|                 |                      | 22.) SEWING            |





# Pulaski Exchange

With Bork Design Architects  
Athens, Georgia

Pulaski Exchange is a mixed use project in downtown Athens, Georgia consisting of the adaptive re-use of a 117 year old cotton seed oil plant with the addition of a grafted on second level to this existing building and two new buildings along Pulaski Street with commercial space at ground level and thirteen condominiums spread between the two buildings' upper floors. The new buildings flank an entry plaza leading visitors from the street into the site and existing building. Entry occurs within a new architectural interjection containing vertical circulation as well more importantly acting as a signifier of entry into the existing structure, as well as a unification of the new and existing architectural languages. The re-use of the existing building consists of office suites within the grafted second floor, two dedicated tenants below on each end of the building, a restaurant and a coffee shop respectively, and six small booth spaces to allow for walk up counter restaurants or "pop-up" retail spaces creating a local market within the historic factory space. My work on this project consisted of the design for re-use of the existing building as well as being the lead conceptual designer of the entry signifier / connector for the existing building and plaza. As well as construction documentation of all buildings on the site.







MARKET INTERIOR



ENTRY CONNECTOR INTERIOR



ENTRY CONNECTOR

MARKET TRANSFORMATIONS



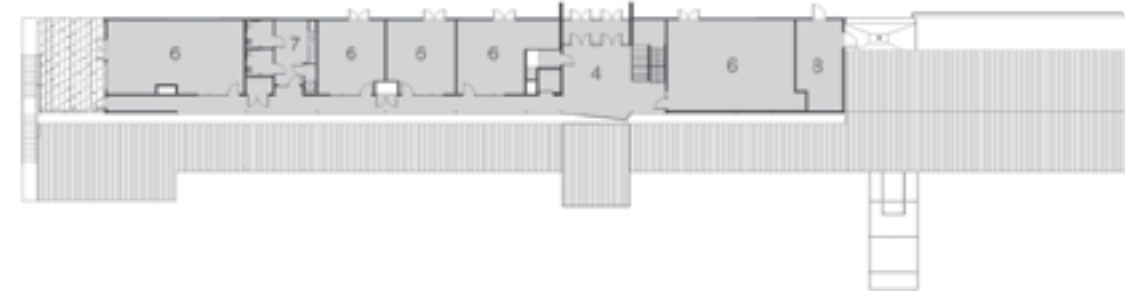
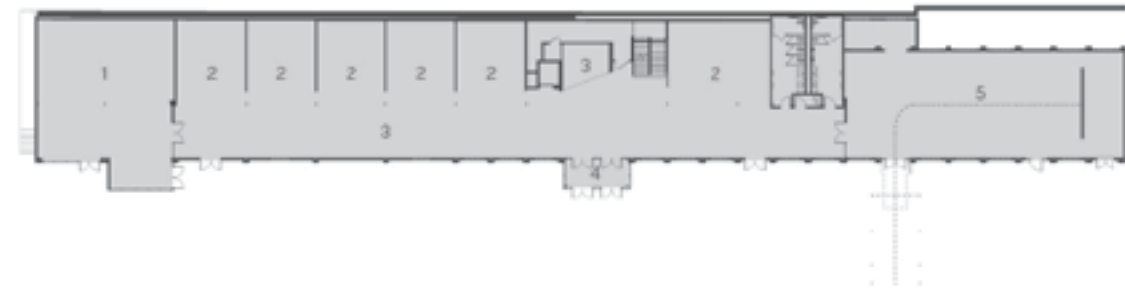
REAR PERSPECTIVE



SECTION THROUGH  
ENTRY AND PLAZA



- SITE KEY**
- 1.) BUILDING 100 (EXISTING BUILDING)
  - 2.) BUILDING 200
  - 3.) BUILDING 300
  - 4.) PLAZA
  - 5.) PARKING
  - 6.) OUTDOOR SEATING
  - 7.) EXISTING HISTORIC BRICK SIGN
  - 8.) ENTRY



- PLAN KEY**
- 1.) CAFE / COFFEE SHOP
  - 2.) BOOTH SPACE
  - 3.) COMMON SEATING
  - 4.) ENTRY
  - 5.) RESTAURANT
  - 6.) OFFICE SUITE
  - 7.) BREAKROOM / RESTROOMS
  - 8.) MED WARE



REAR ELEVATION





EXISTING CONDITIONS



PULASKI STREET ELEVATION



# Herstand Hall

With Hansen Architects  
savannah, georgia

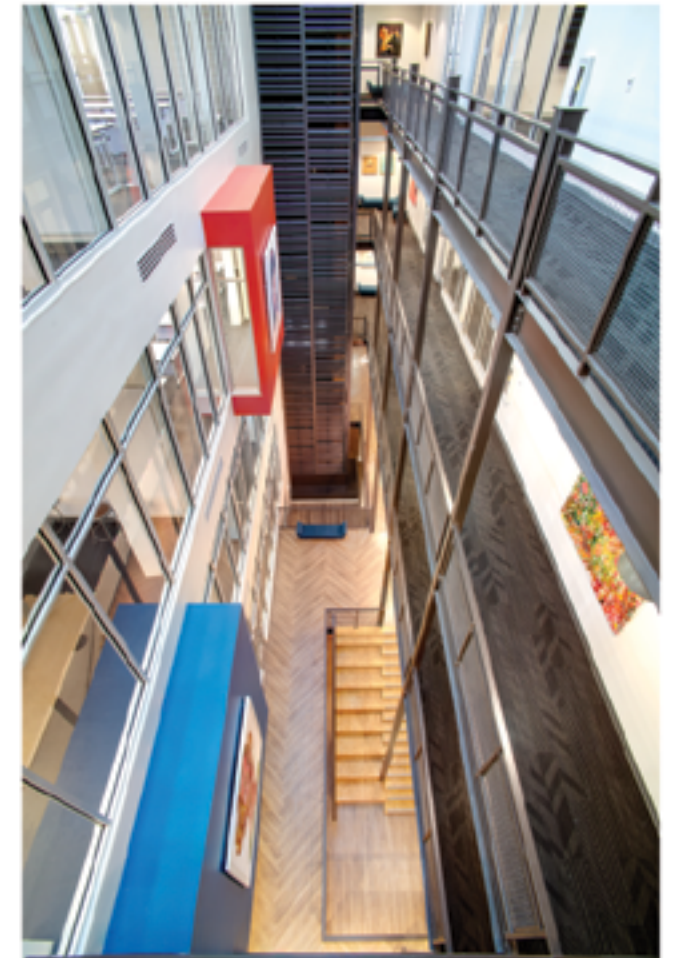
Built in 1926 by architect Cletus Bergen, this five-story, 40,718-square-foot structure originally housed Slotin and Co., one of the largest dry goods wholesalers in Savannah during the early 20th century. The building was partially renovated in the 1980s an effort that included partial removal of the heavy timber structure to create the current open five-story atrium which needed to be completely restructured for its contemporary re-use.

Current renovation plans for Herstand Hall include adding computer labs, foundation studies classrooms, lecture rooms and faculty offices, as well as open lounge, study and gathering spaces. Renovations also included the addition of a mass timber grand stair also incorporating seating, and cantilevered crit spaces suspending students into the atrium while presenting their projects. These elements as well as all railing profiles were parts of the project that I personally designed and developed.

( Photos courtesy of Hansen Architects )







LAMINATED PSL GRAND STAIR WITH INTEGRATED LED LIGHTING FOR DISPLAY PEDESTAL



