



e: [marcotjuliani@gmail.com]

New York, NY

## Project Involvement

-Flight Club NY store addition -W Philadelphia Hotel -Virgin Atlantic JFK Lounge

#### SEAVER FRANKS ARCHITECTS Feb 2012- Sep 2012 Tucson, AZ

#### Architectural Intern

Responsible for a range of tasks including physical model making, designing display boards for marketing purposes, pre-design logistics studies, conceptual and schematic design visualization, assistance in the compilation of construction documents, assistance in compilation of specification documents.

### Project Involvement

-Plaza Palomino Remodeling -Salpointe STEM Student Center 3063 Hirst Residence

#### UNIVERSITY OF ARIZONA

Aug 2008- May 2013 Tucson, AZ

# College of Architecture

Five Year B. Arch

# Eller College of Management

General Business Minor

#### STUDENT SHOWCASE 2012

Tucson, AZ Nov 9th, 2012

#### 1ST PLACE

University-wide student showcase hosted by the Graduate and Professional Student Council. Placed 1st in the Architecture, Planning & Landscape Architecture category in the Undergraduate division.

#### DESIGN EXCELLENCE

#### CANDIDATE

Spring 2009- Land Ethic Studio One of four class candidates.

### D3 HOUSING TOMORROW COMPETITION

March/April 2013

Submission selected by curators for exhibition at University of Houston College of Architecture Gallery.

#### ARIZONA CHALLENGE

# COMPETITION

May 2012

### LYCEUM COMPETITION

May 2010

One of three studio submittals from my section.

### NAEA CONFERENCE

March 2013

Toy project exhibited in lecture by Eryn Chiu.

Quito, Ecuador Tucson Washington DC New York

Rhinoceros 4.0 & 5.0 (h) Grasshopper (m)

Vray (h)

Autocad 2012 (h) Revit 2012 (m)

3d Studio Max (m)

Adobe Creative Suite Cs4+ (h) Microsoft Word + Excel (h)

#### Basic exposure to:

ZBrush Maya 2013 Python PL HTML

Spanish- Native fluency

¥ Hayes Slade O Principal at Slade Architecture e: hayes@sladearch.com t: 212 677-6380

> Mike Franks Principal at Seaver Franks Architects e: mikefranks@seaverfranks.com t: 520 795-4000

Susannah Dickinson Professor at University of Arizona e: srd@email.arizona.edu t: 646 896-9172

Alvaro Malo Former Director of College of Architecture e: malo@email.arizona.edu

Ruben Caldwell Professor at University of Arizona e: rnc@email.arizona.edu



# Ungrounded Senior Thesis

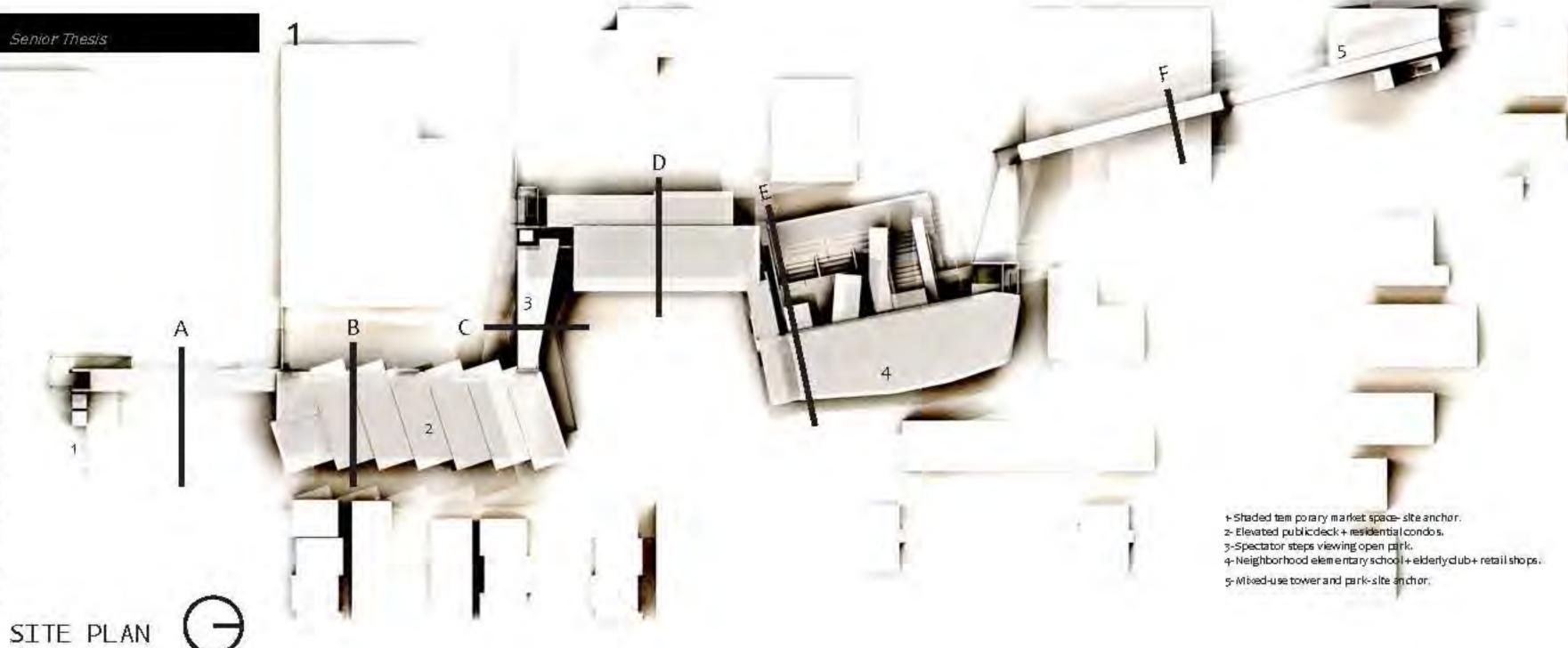
Advisor: Ruben Caldwell

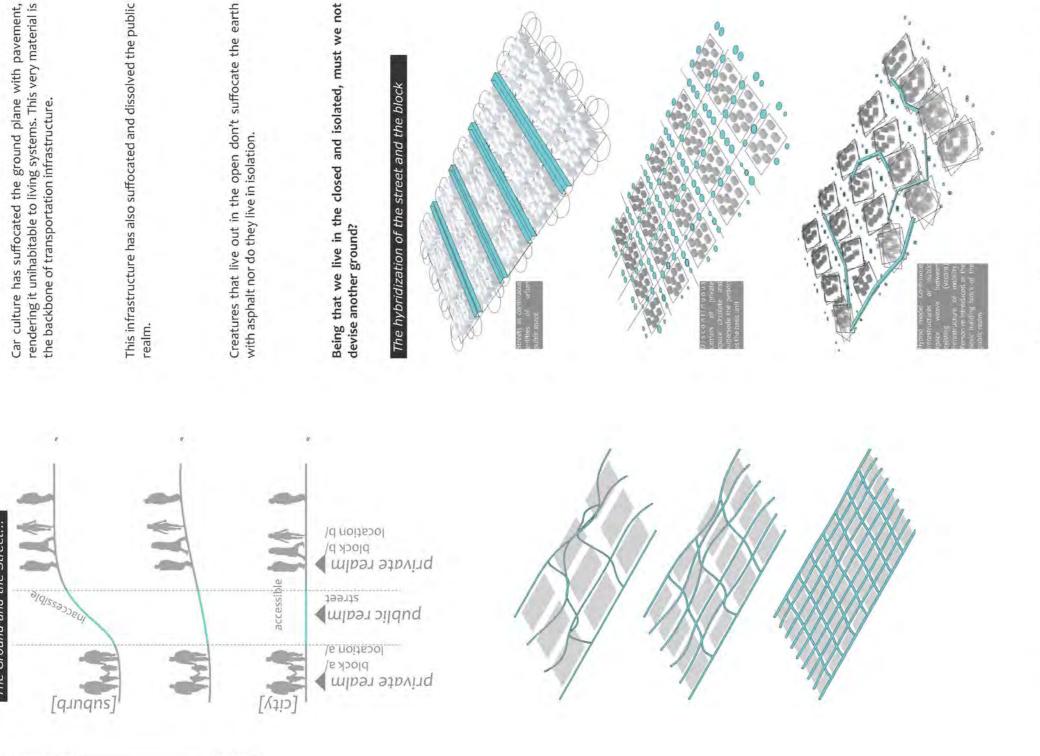
# Position:

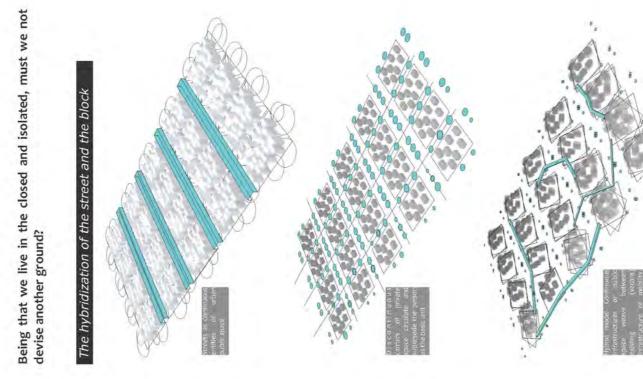
In order to inflect an obsolete system of spatial ordering, the architecture of infrastructure must serve as a framework over which the public realm can exercise radical renegotiations of spatial and programmatic ordering.

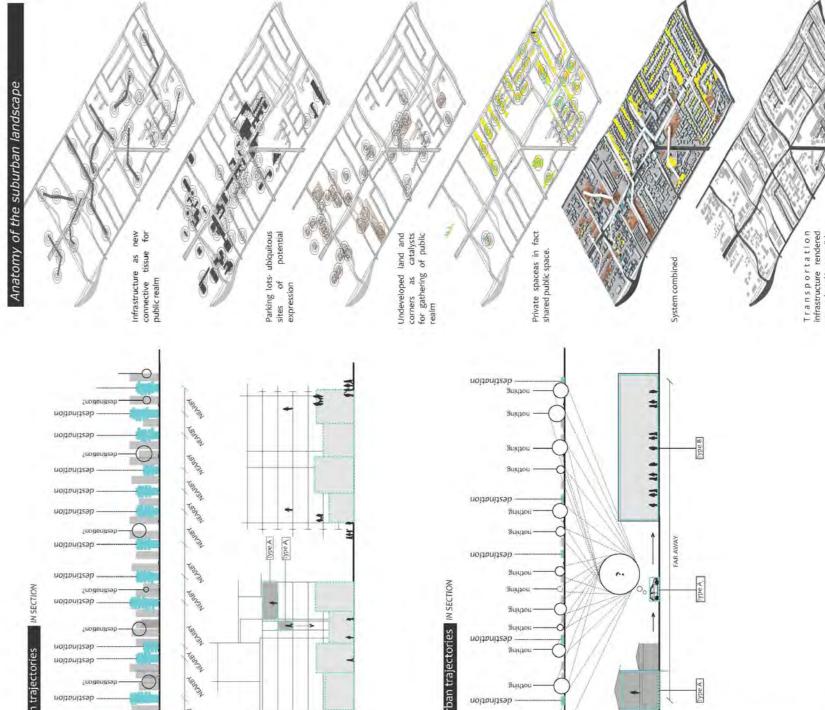
# Description:

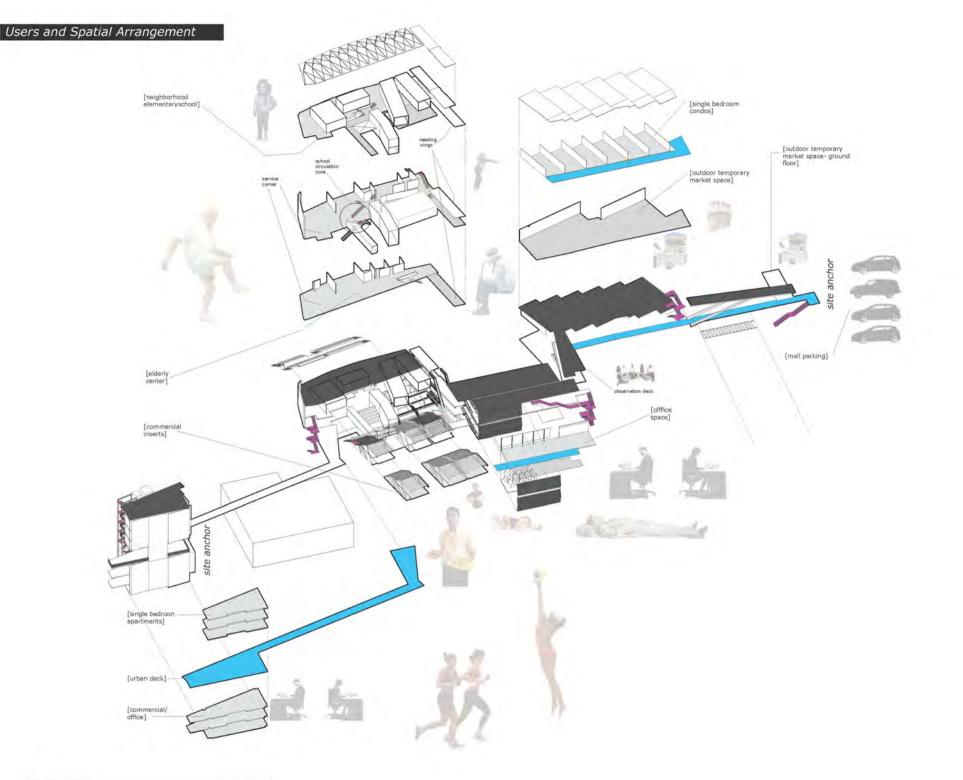
My proposal is rooted in addressing a new architectural infrastructure that can coexist and slowly transcend the obsolete infrastructure of transportation and development that has in great part led to, and characterizes, the phenomenon of suburbia. Facilitating a transportation system at the scale of the vehicle has led to this very patchwork of unused land. Facilitating a transportation system that can house the public sphere could become the new city-street in suburbia. The juxtaposition of this new infrastructure over the existing one will rearrange the suburban landscape, renouncing to the suburban paradigm. In doing so, this new spatial ordering will be closer aligned to our values as an increasingly conscientious society in regards to how we inhabit the planet.



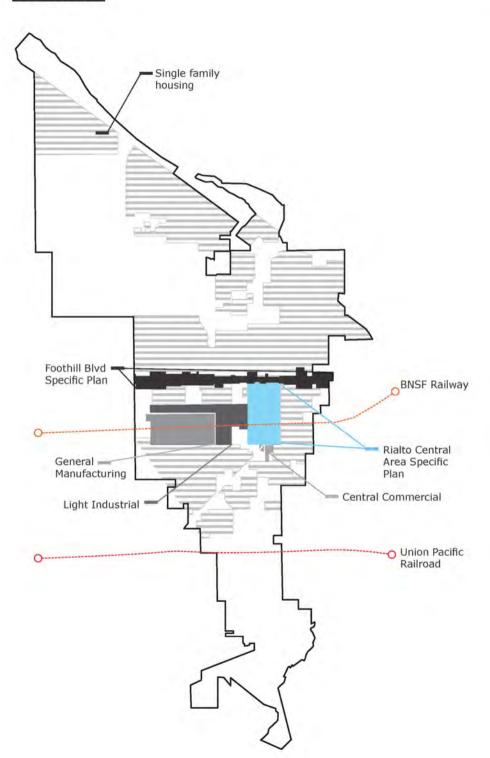




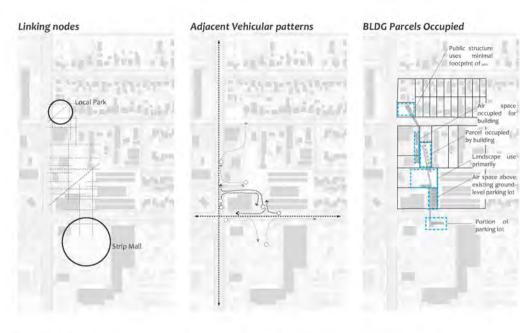


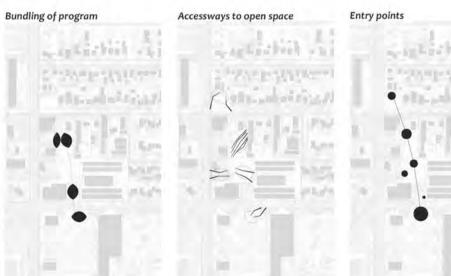


City of Rialto



Contextual Speculations



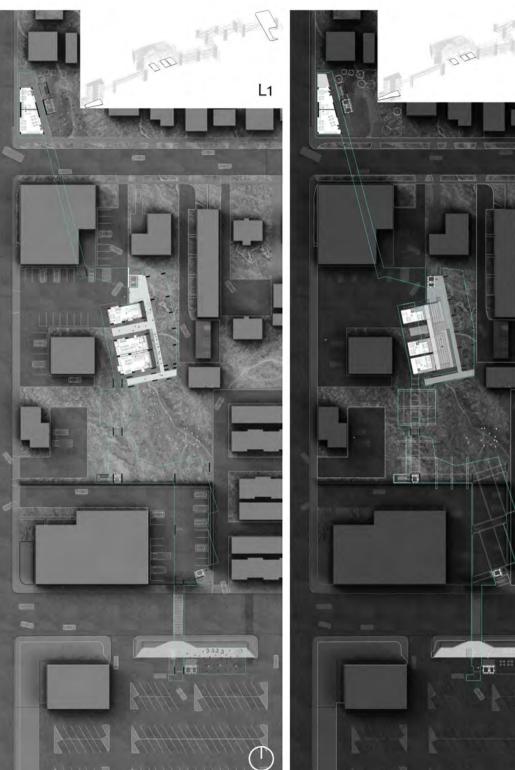


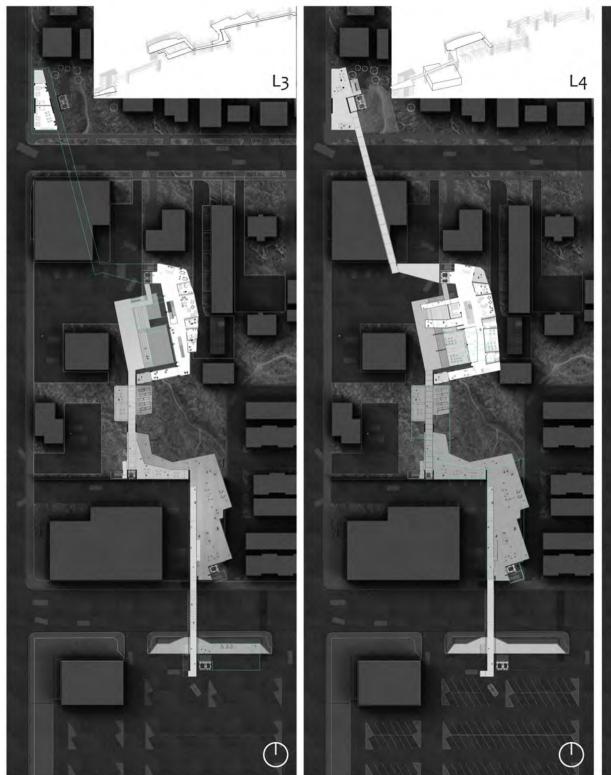
LINGROLINDED

This project presupposes that in the near future this 'fragment-based' model of development along a piece of infrastructure will be made possible through a further commoditization of property. In other words, proprietors will see a business opportunity in renting a piece of their property for public amenity (infrastructure of kinds).

With this in mind the infrastructure in this project spans several sites and is anchored at the two extremities. Along the infrastructure, different interest groups over time choose to develop inhabitable spaces that begin at a second level above the ground plane.



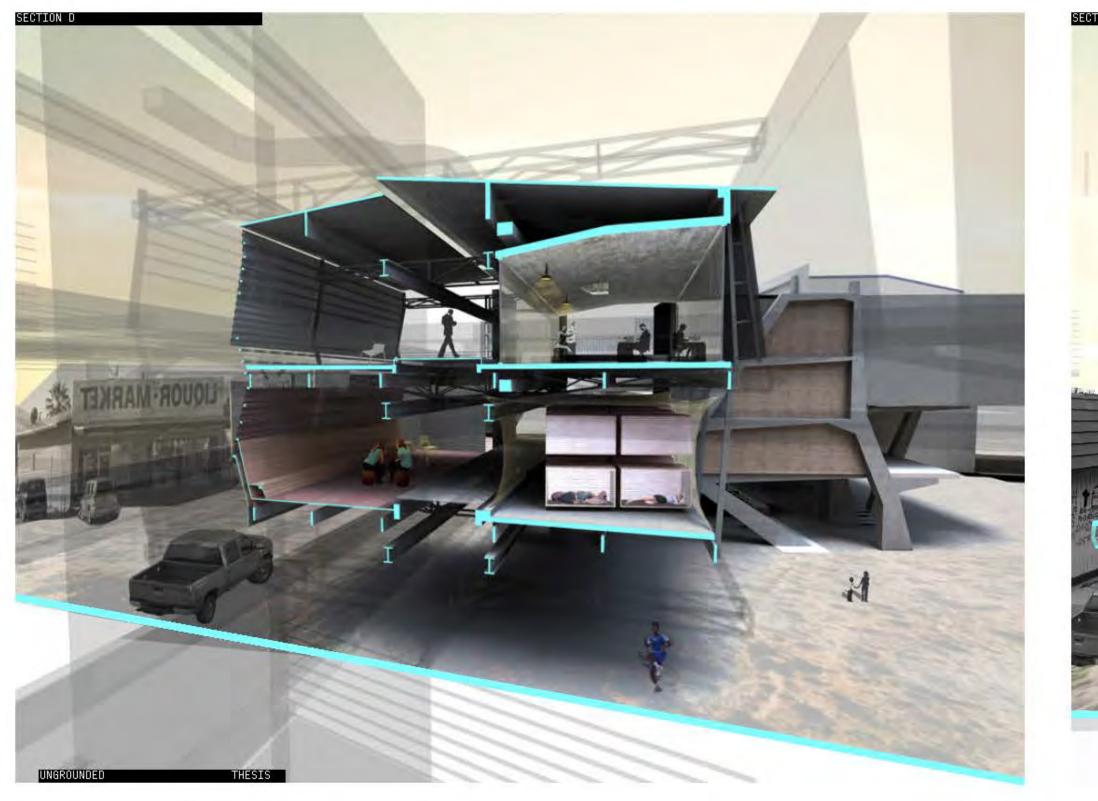


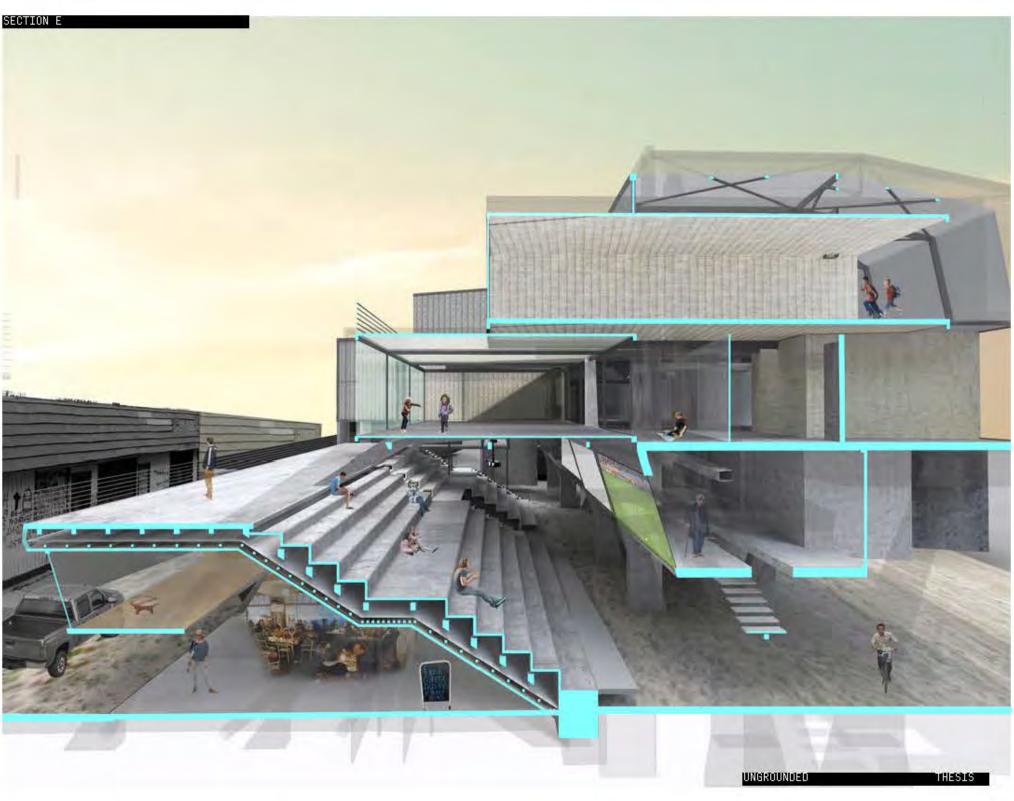


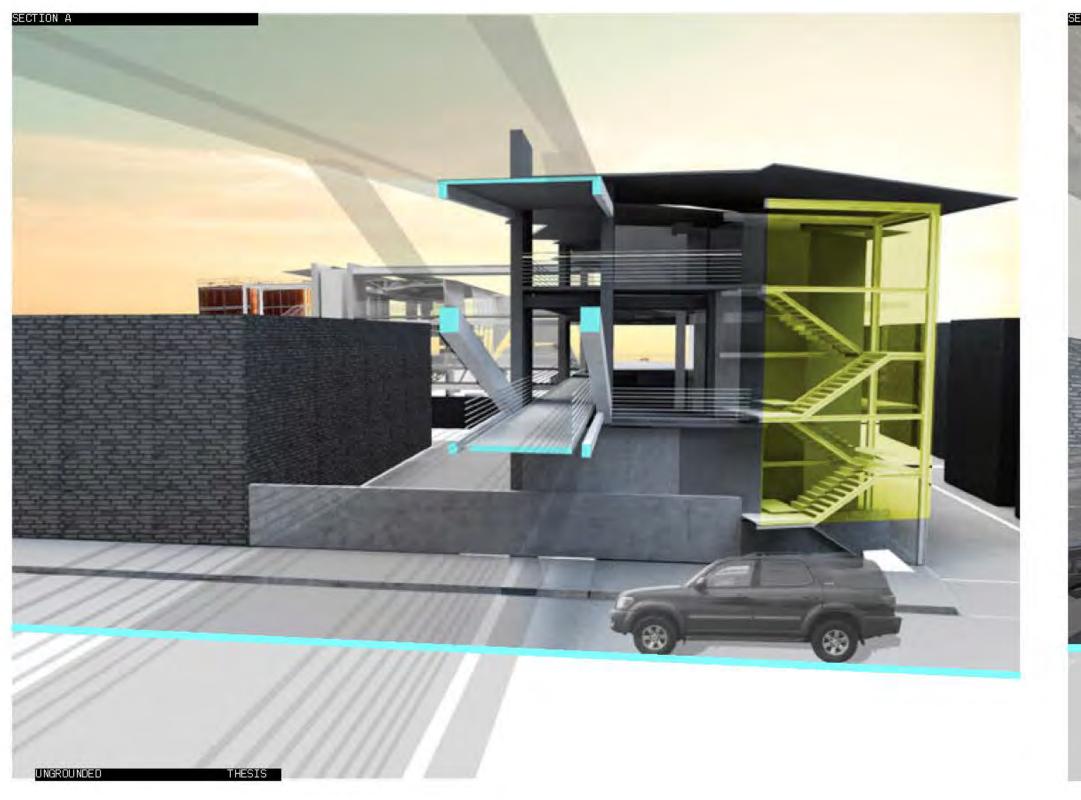


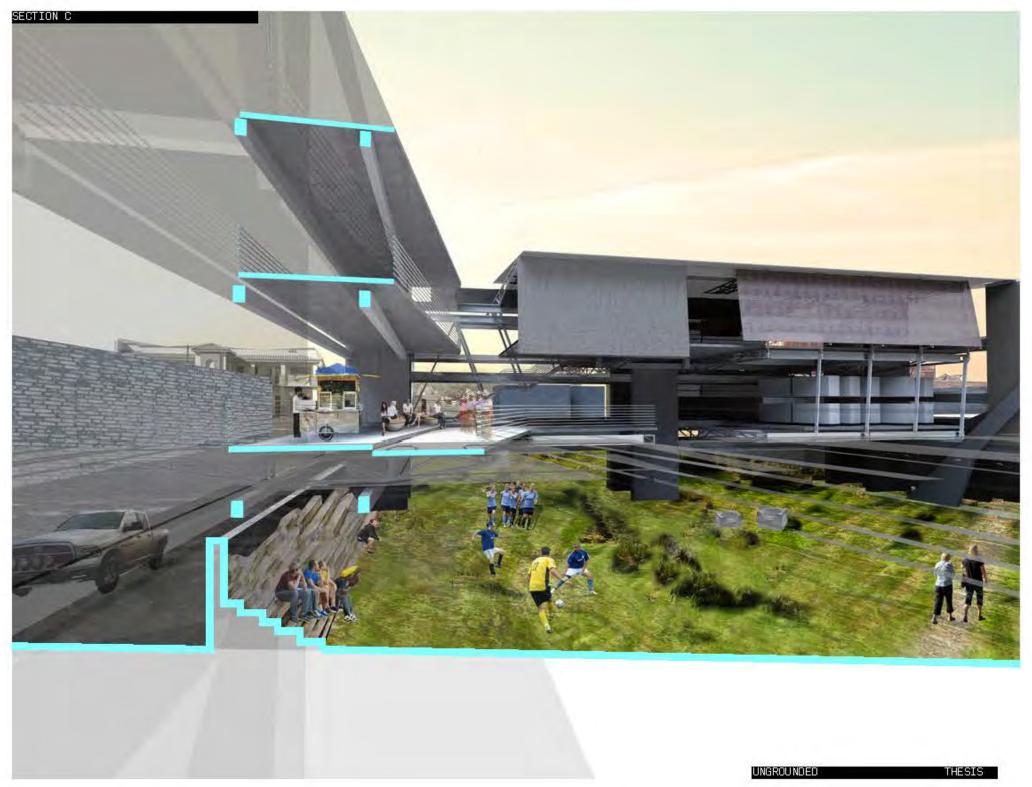
UNGROUND

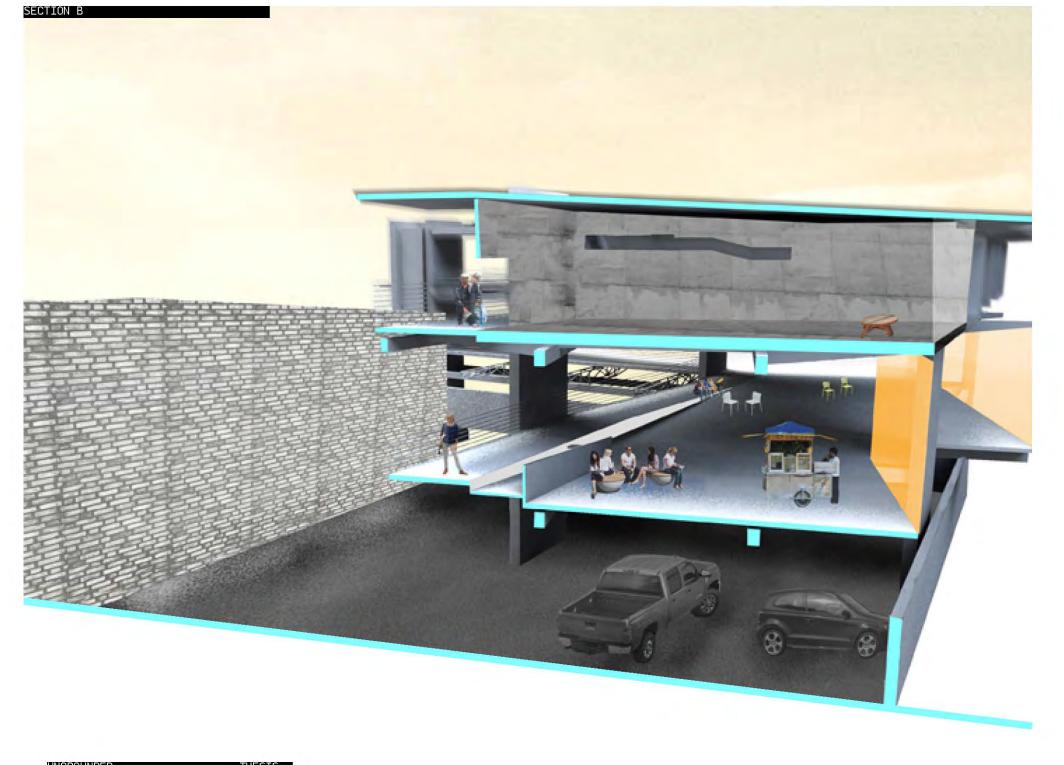
UNDED T

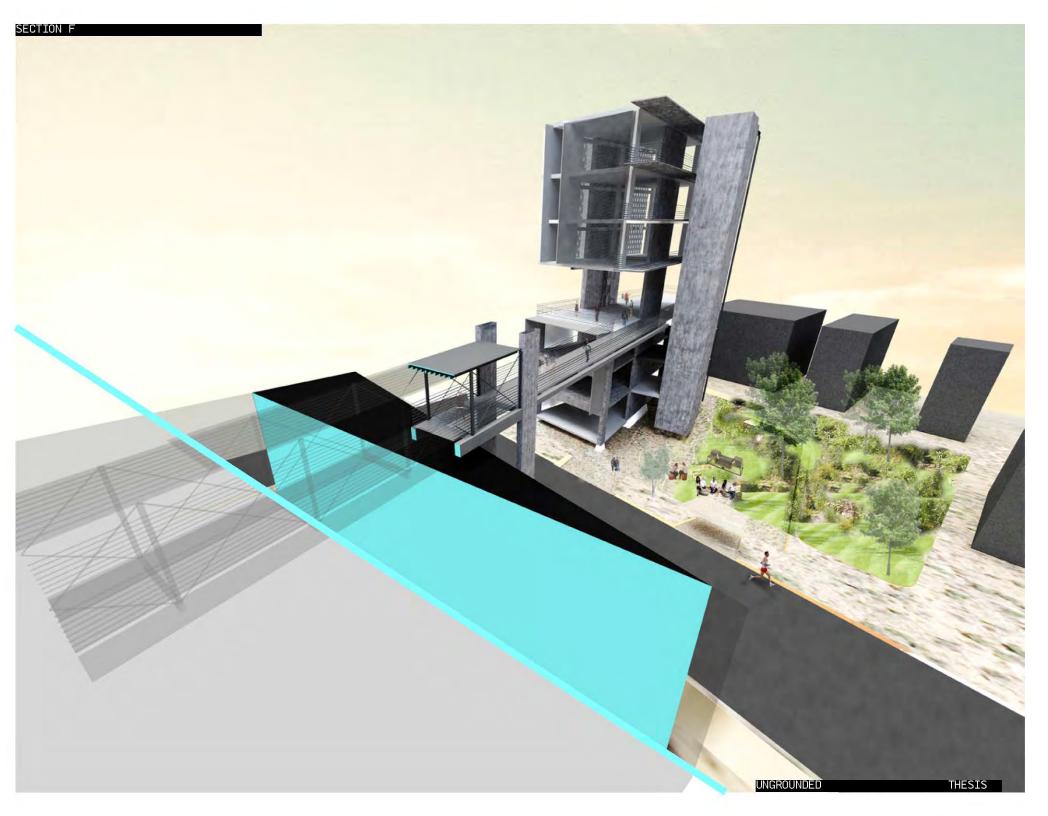


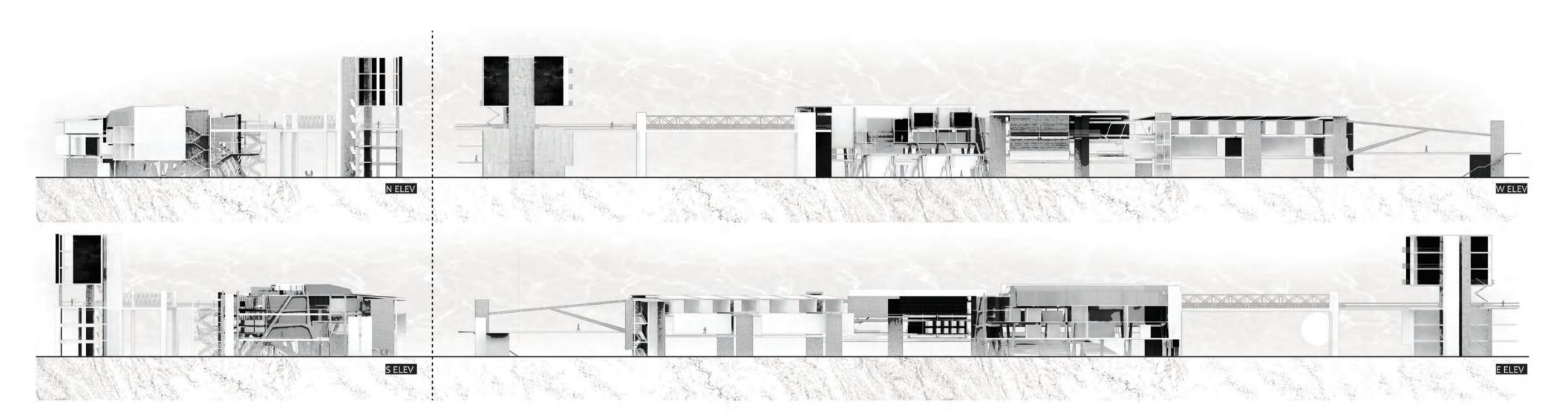






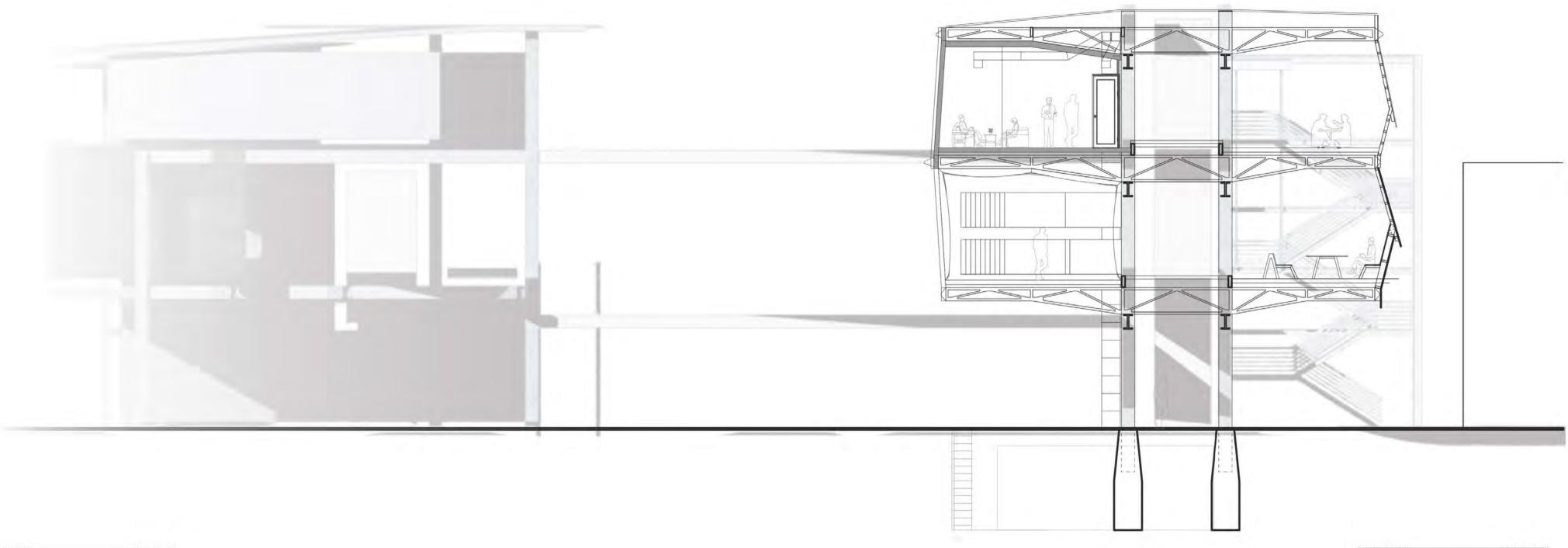






UNGROUNDED THES

IGROUNDED



# Habitat Continuum

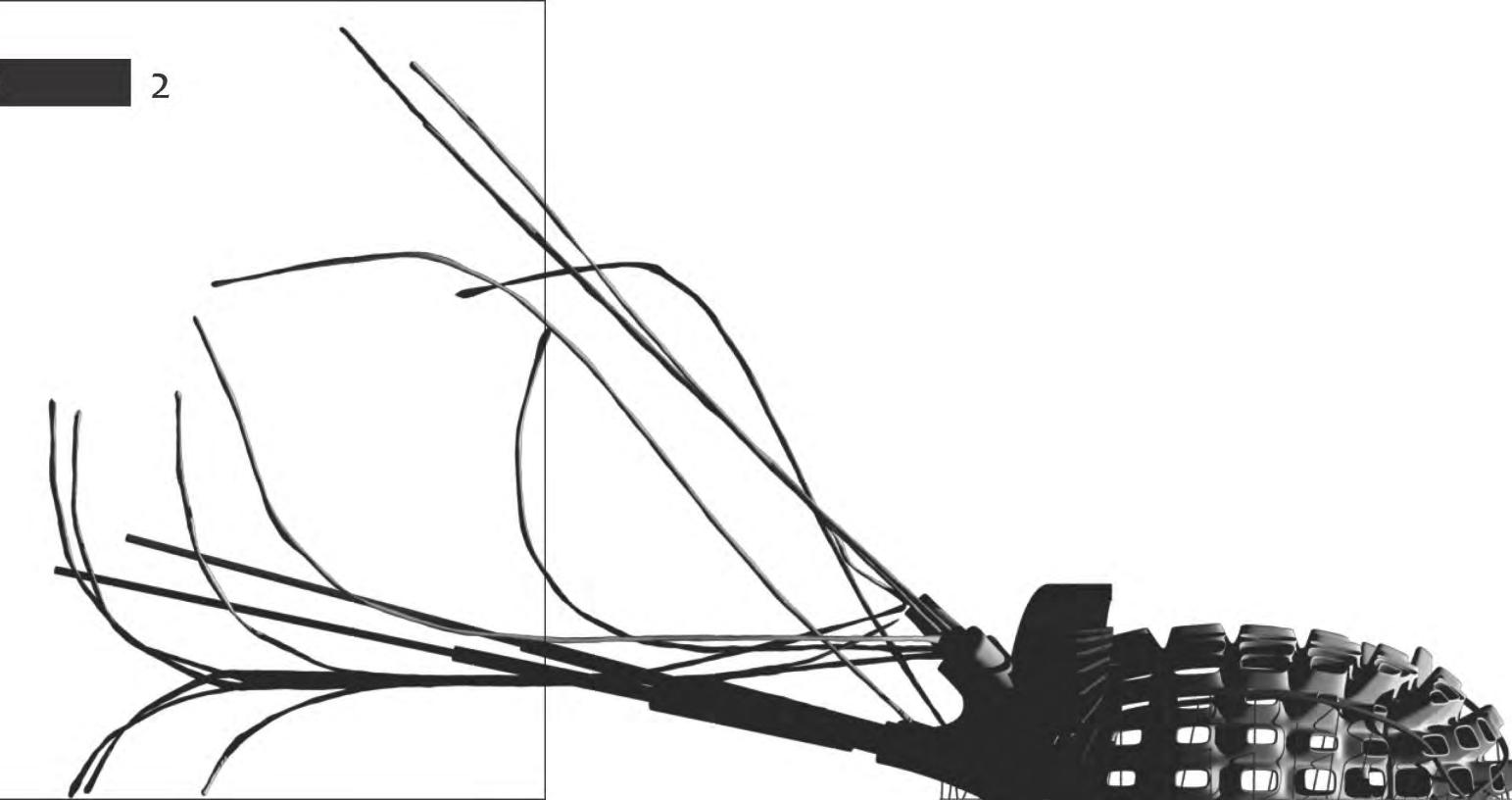
4th year Option Design Studio (Spring)

**Professor:** Susannah Dickinson **Team:** Marco Juliani, Rene Corella

## "A desert basin typology"

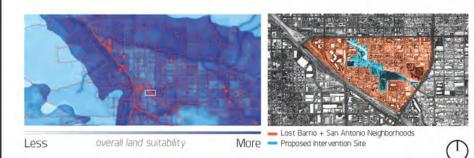
Habitat Continuum is a region-specific typology that seeks to flourish form the shade/water pulses that succulents depend on. Located in the midst of a city-scale stormwater retention basin, the proposal seeks to thrive on the very resource it is harnessing, thus becoming a prototype for retention basin architecture and social ecology. The capstule becomes the distilled essence of the continuum effort. It is a system-driven living enclosure in which a reciprocal exchange of energy (namely water) disctates its behavioral economy under varying conditions within the basin. Its lightness speaks of its transitory character, one that can be replicated and deployed in a continued ecological practice of resilience and low-impact infrastructure. Its formal and material character resembles that of succulents, optimizing resources and allowing for conditioned porosity, specific to the time of day.

The proposal is rooted in the character of a local community and in the broader context of the Tucsonan social and academic environments. It exists as a satelllite campus of the University of Arizona, extending the presence of an academic entity that characterizes the city. It bridges the University's culture with a downtown recovering from urban renewal, and a stronger network within the urban fabric is created because of it. The location of the retention basin and the architectural proposal, between two disassociated communities, is currently adjacent to a decaying riparian habitat; this in-situ implementation allows for a new social and ecologial platform to manifest itself, through which instances of rigid coexistences, such as those caused by commodity-dependent suburban culture, can start to be dissolved.

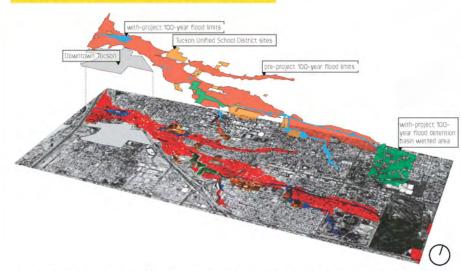




#### CREATING A SUITABLE INTERVENTION



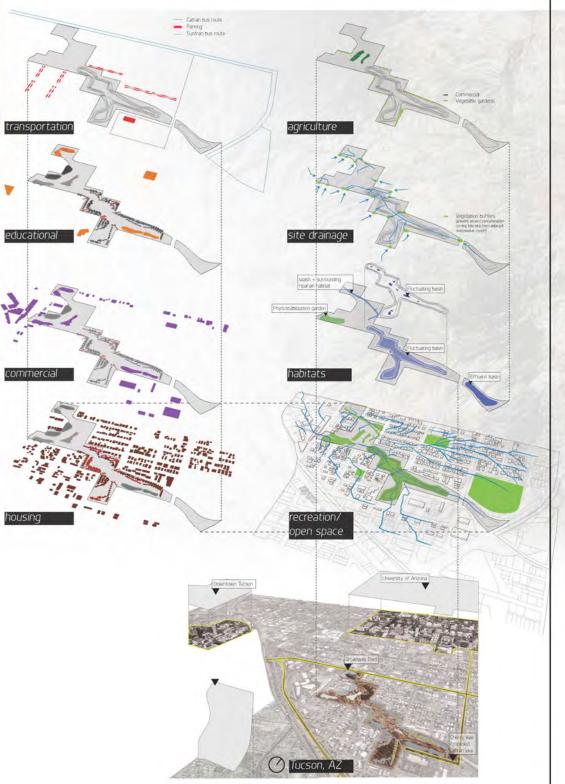
#### REGISTERING CITY-WIDE CONDITIONS



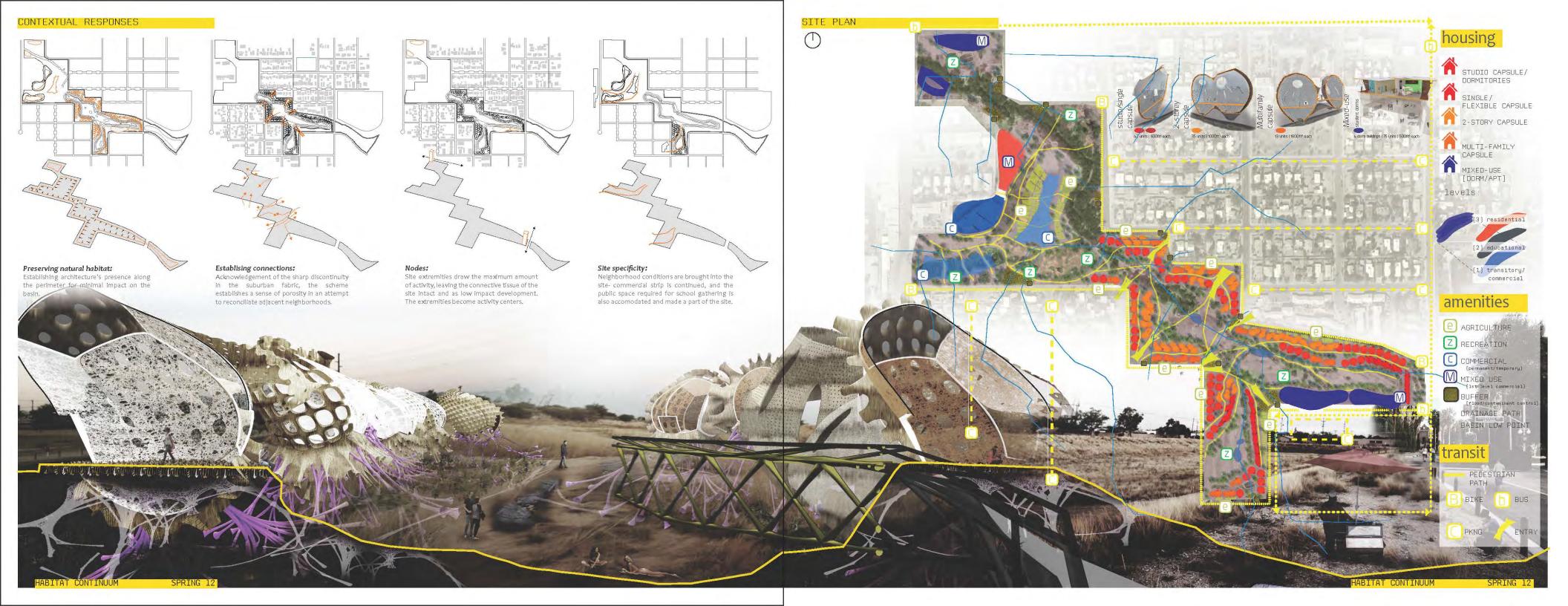
This project is multi-phase flood-control, native habitat restoration project that is being undertaken by the City of Tucson. The implementation of this series of artificial detention basins serves as flood damage protection to private and public properties, as well as an opportunity to restore riparian habitats that have been affected by careless urbanization.

### Tucson Drainage Area/ Arroyo Chico Multi-Use Project

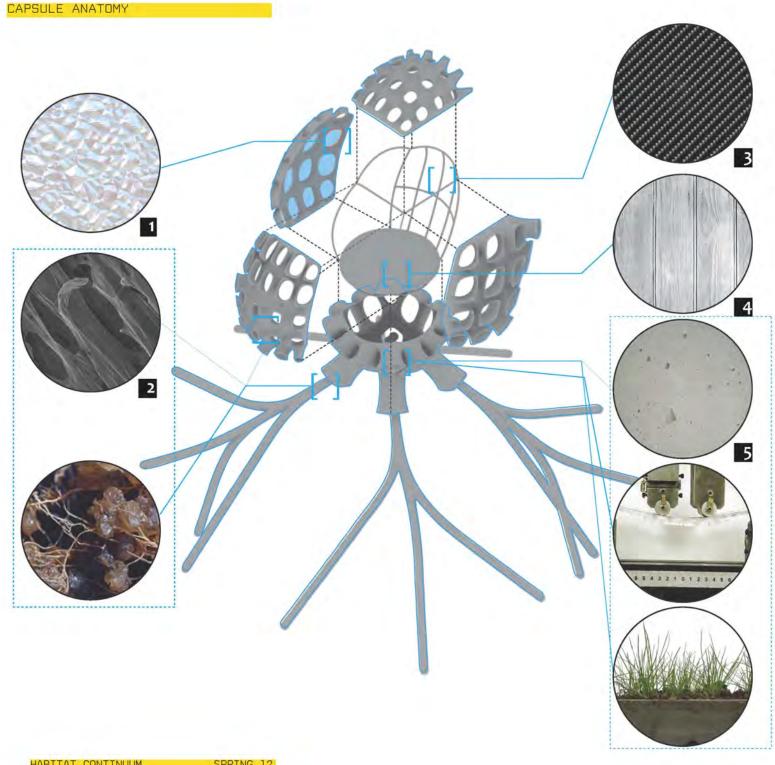
HABITAT CONTINUUM SPRING 12











SELECTION AND PERFORMANCE DESCRIPTION

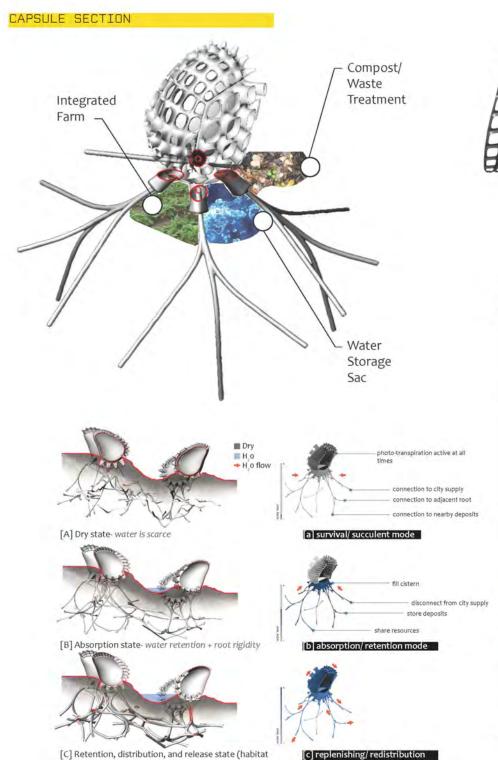
WINDOW: PHOTOVOLTAIC LIQUID CRYSTAL- smart glass technology for day-light control.

ROOT/ SKIN: NANOCELLULOSE AEROGEL + SPERABSORBENT POLYMER- very lightweight, capable of carrying many times its weight; can absorb toxic spills, retain and release water; absorbs and maintains moisture; favors plant growth.

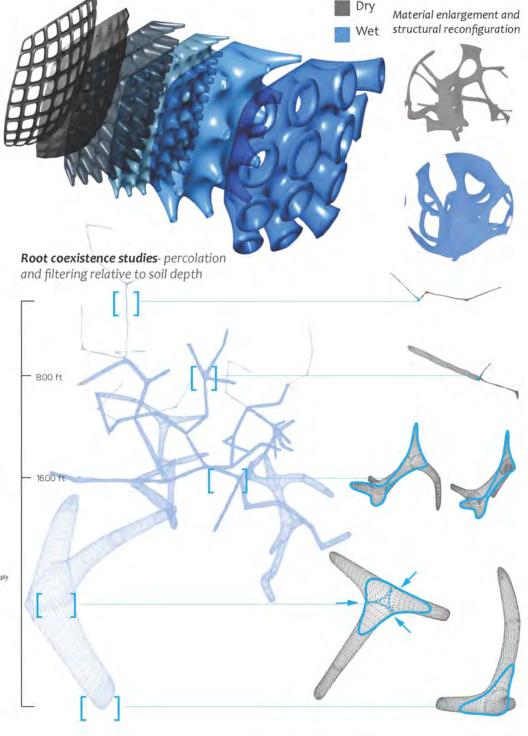
FRAME: CARBON FIBER- can conduct electricity, great structural strength, high resistance.

FLOOR: COMPOSITE WOOD **DECKING-** recycled material, allows for quick access to underground cistern.

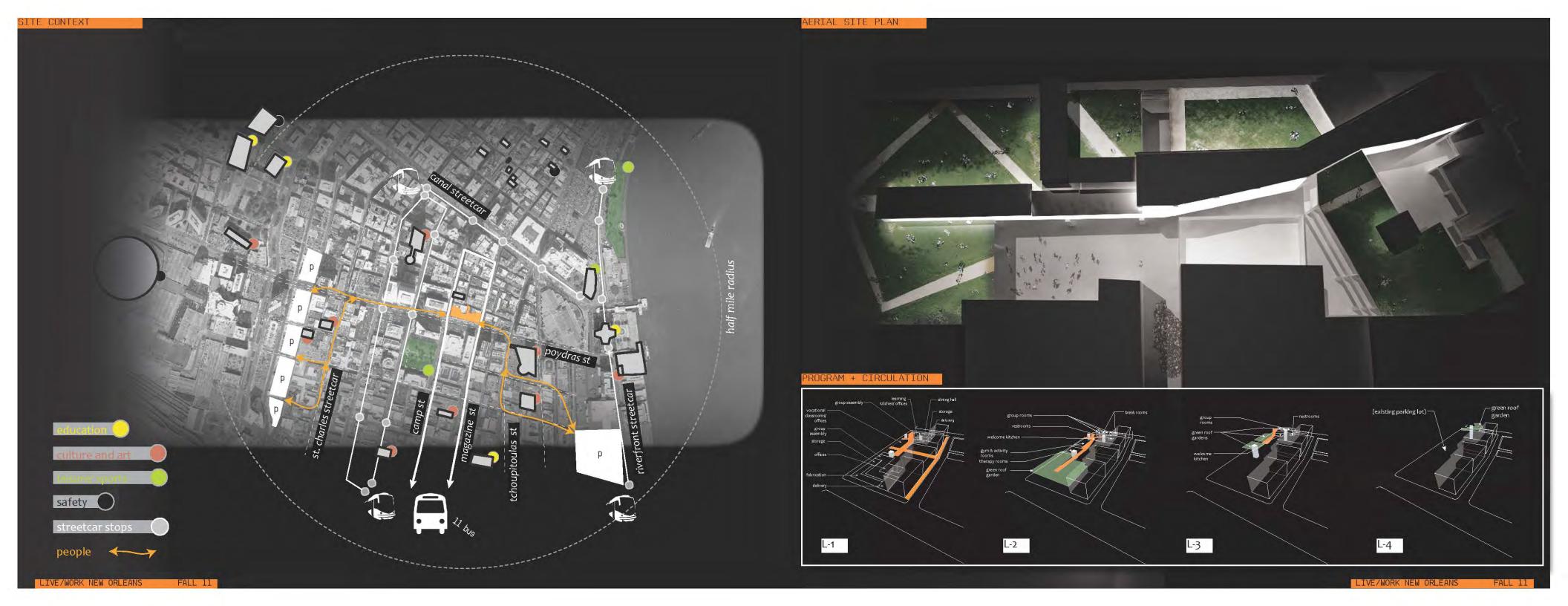
FOUNDATION/ MULTI-FUNCTION CISTERN: ORGANIC BENDABLE CONCRETE- disaster-ready, high resistance, CO, absorbing.

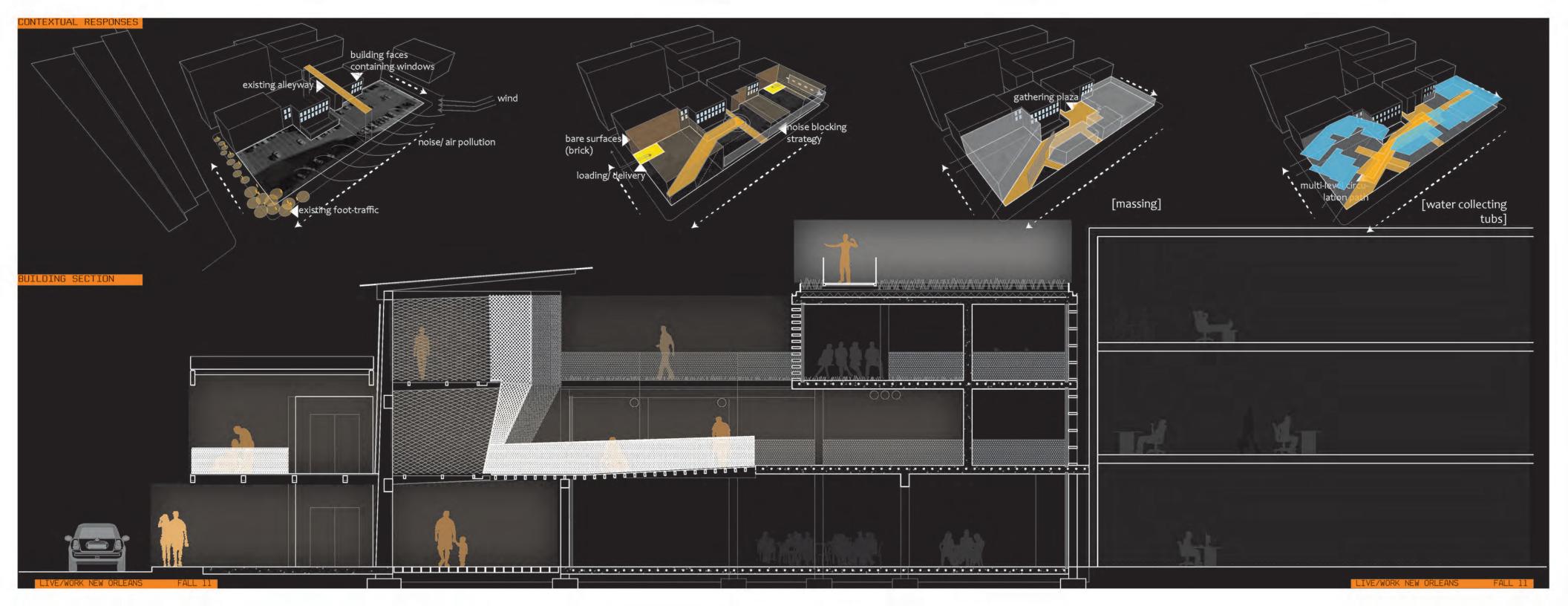


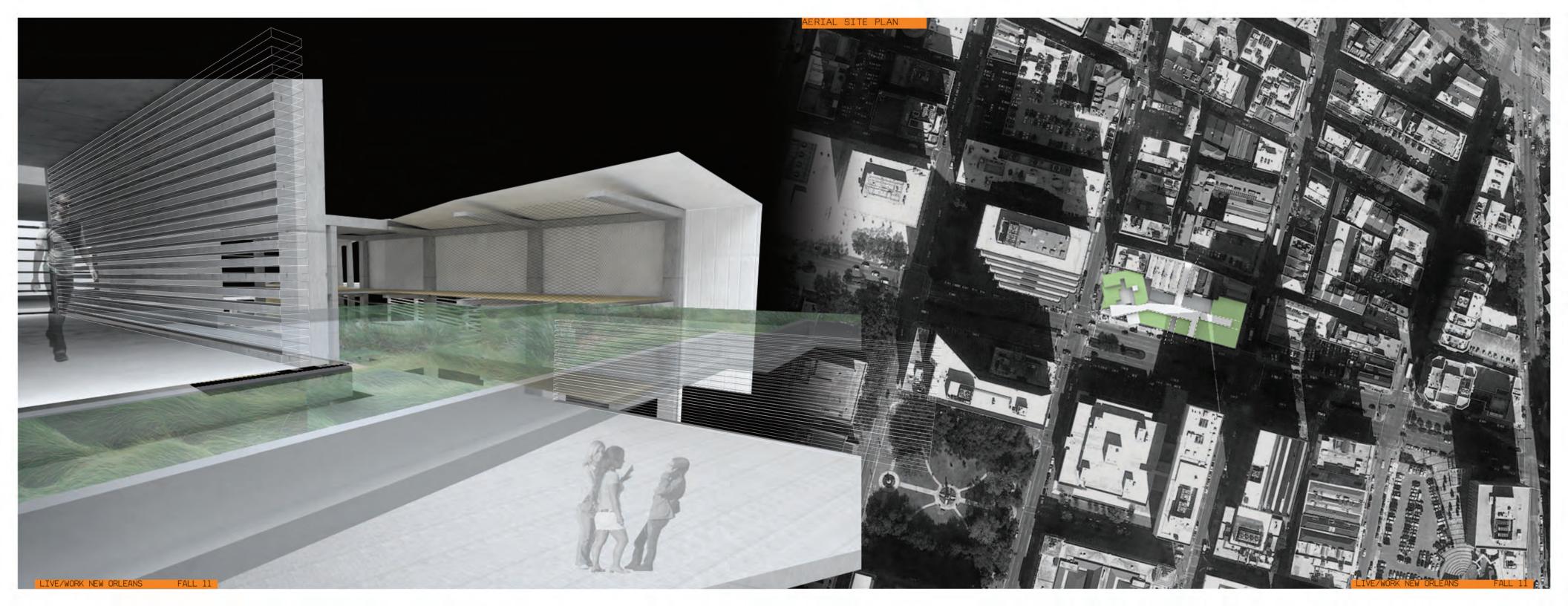
replenishment)

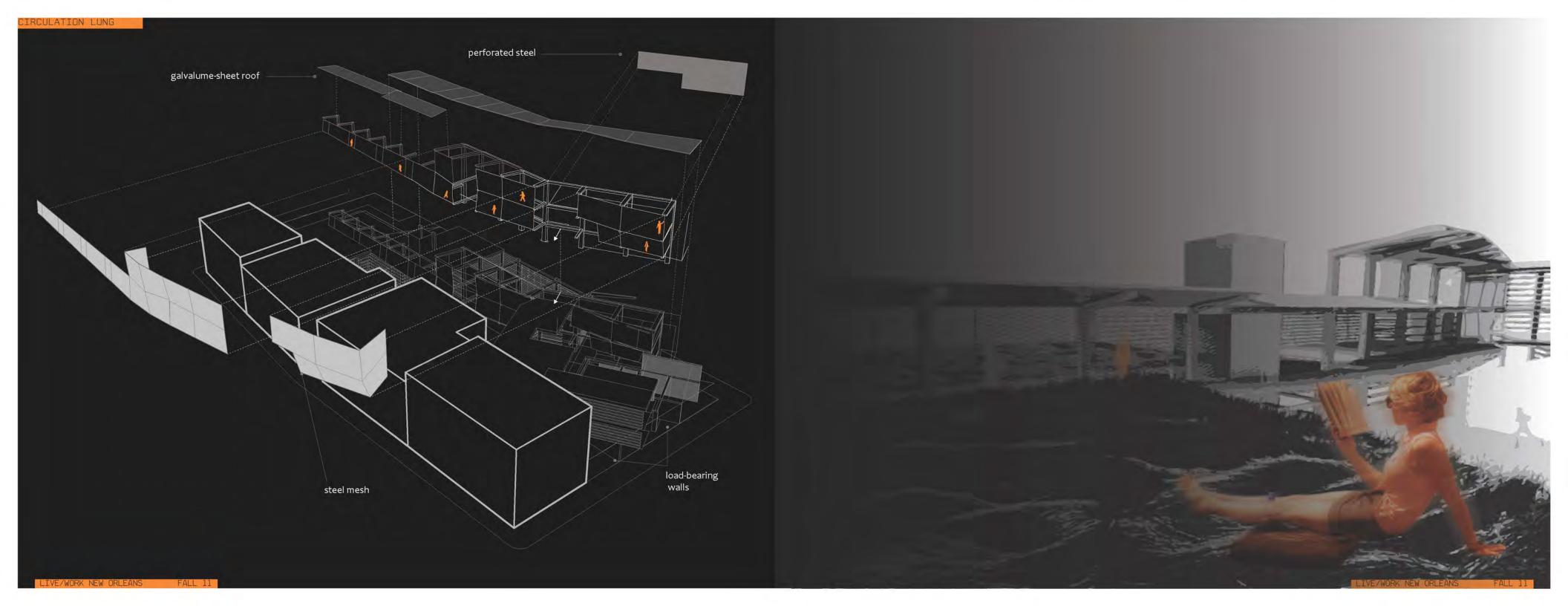












# Bird Watcher

3rd year Building Technology (Spring)

Professor: Christopher Trumble

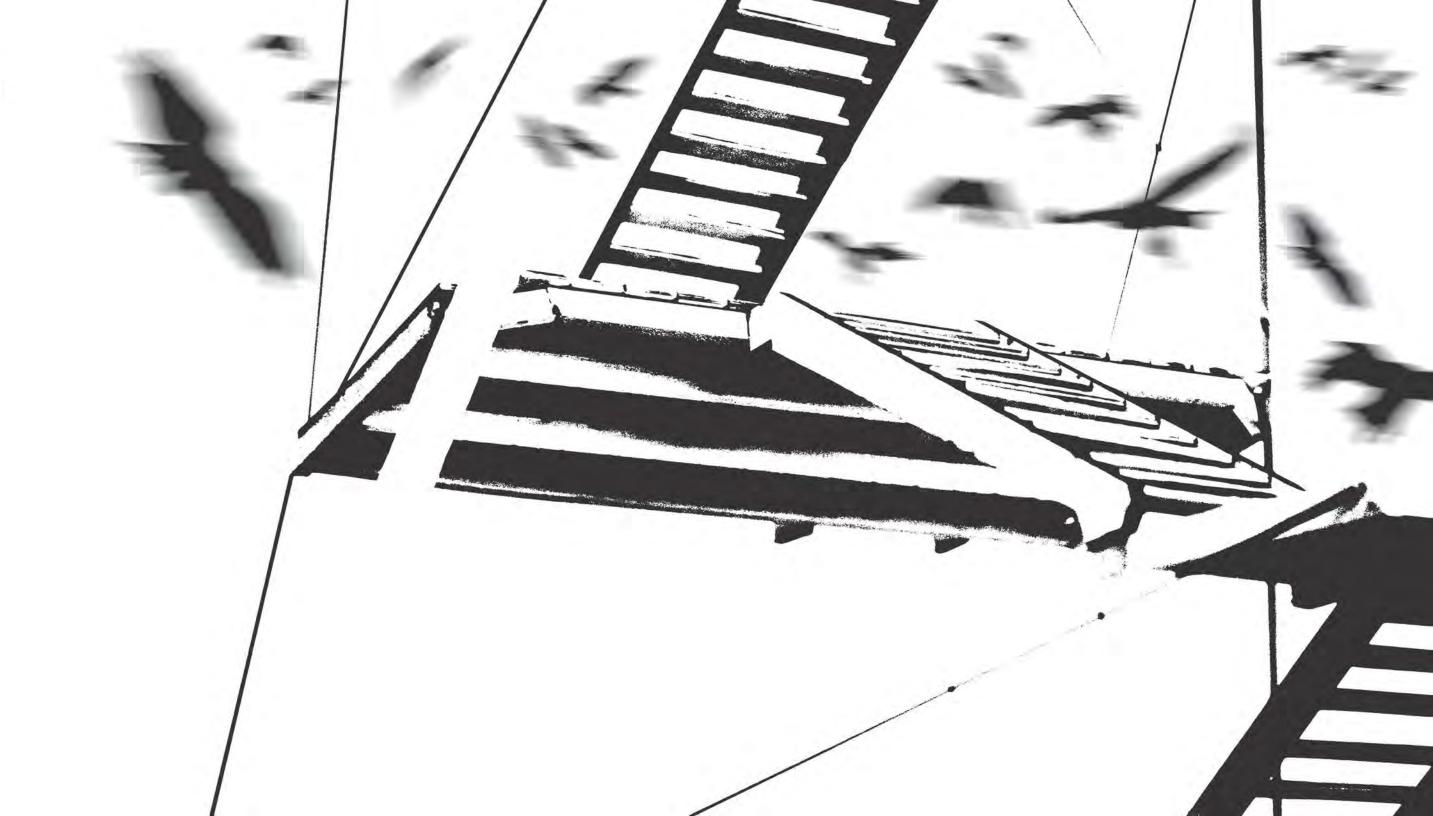
Team: Marco Juliani, Rene Corella, Marcela

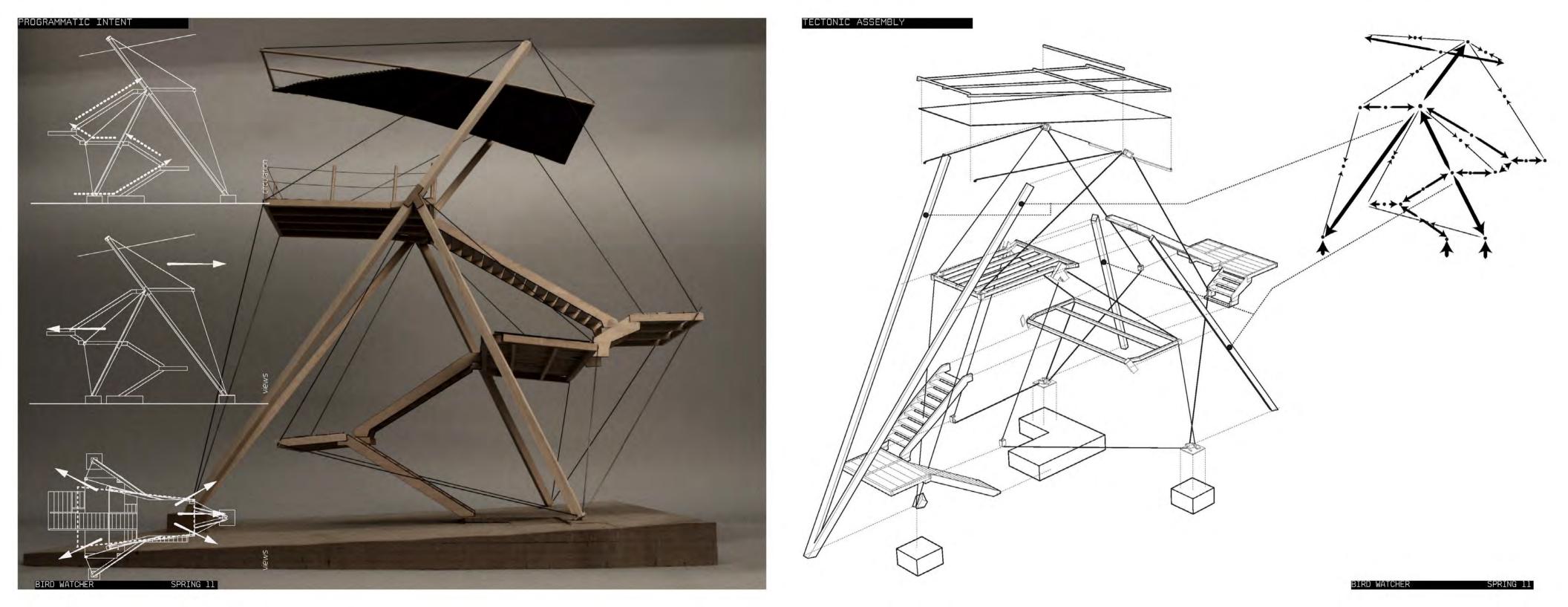
Gracia, Alex Zee

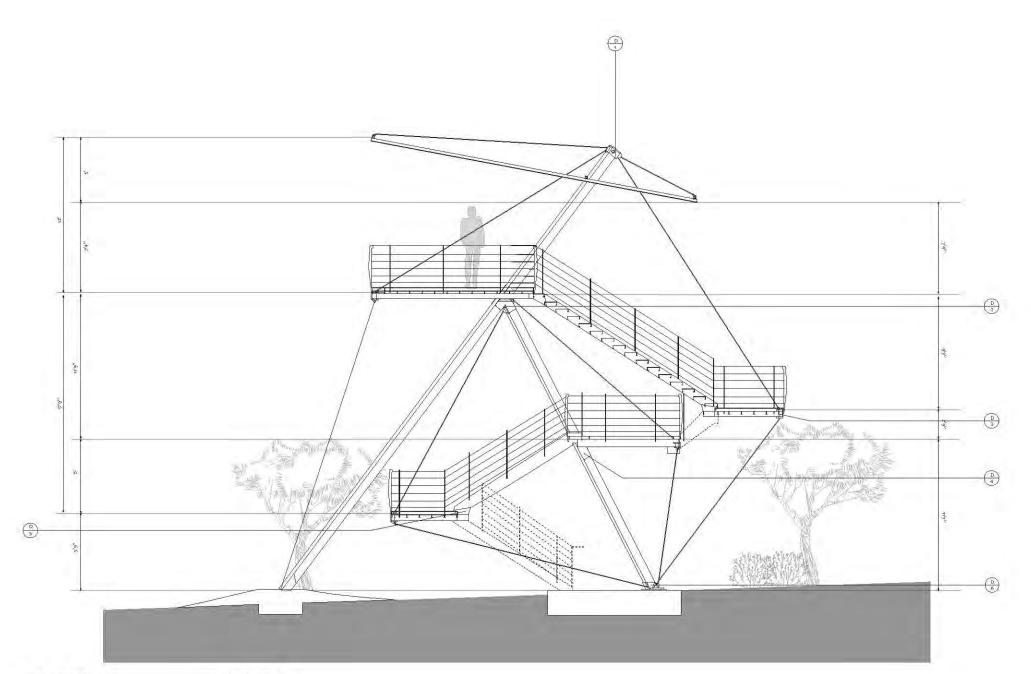
# **Project Description:**

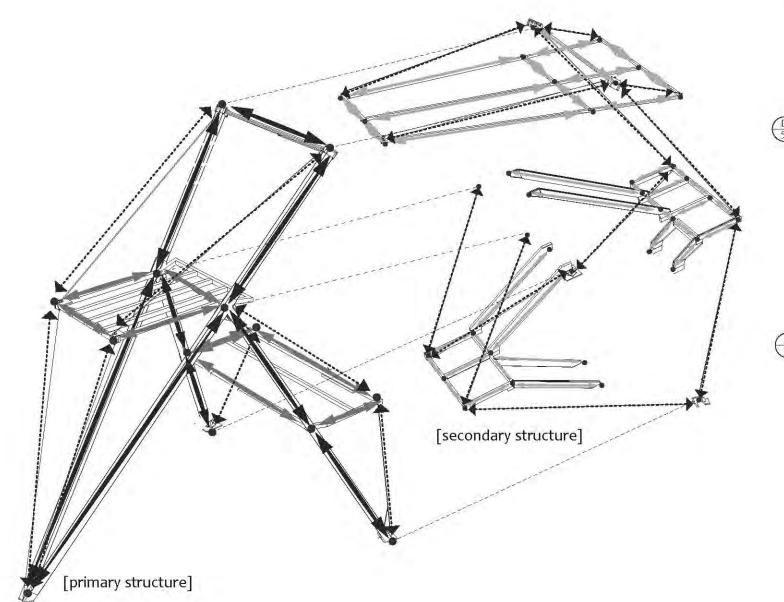
This structural exercise was a study in how minimal members of tension and compression can be combined to obtain suspended volumes. This project exposed us to: architectural detailing; it served as an introduction into the compilation of construction drawings; it provided a strong conceptual understanding of the interdependency of structural forces in a stable system, as well as providing judgement in the sizing of members with respect to the spans they cover.

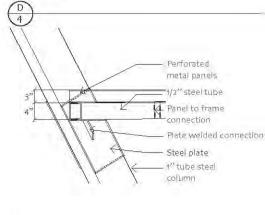
The one-and-a-half week exploration consisted of a series of study models and iterative construction drawings. A 1/2": 1' model and a package of construction drawings was submitted at the end. The project presented here was the second iteration of two iterations.



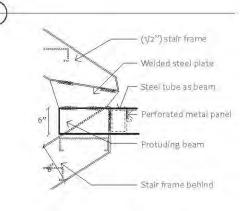


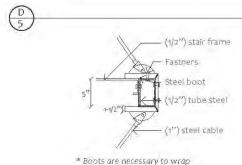






[DETAILS]





\* Boots are necessary to wrap around the extremity of the platfrom, to spread the tension forces and concentrate them on these plates of steel.

# Informed Plasticity

5

5th year Option Design Studio Professors: Mikhail Gladchenko/

Keegan Quick

Team: Marco Juliani, Sergio

Barajas, Evan Novak **Blog:** http://f12arc451.

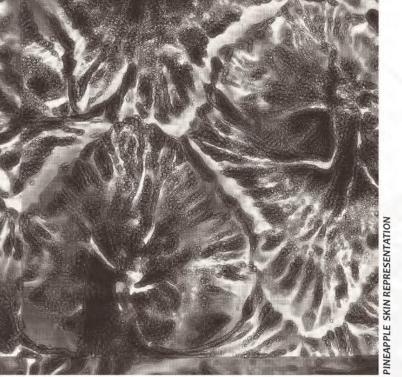
wordpress.com/

# **Project Description:**

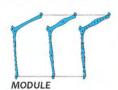
This project was the culmination of a semester long study into architectural abstracions of material and performance in living things. Beginning as an individual inquiry into a subject of interest, groups were formed mid-semester and ideas blended. I collaborated with Sergio Barajas and Evan Novak in the study of material surfaces how the panelization of these could approximate a double curved surface. The resulting design emerged from the development of an ordering system that followed several parameters and rule sets.

My personal contribution to the project was that of active designer in the iterative and final fabrication stages and manager of this process.





























PINEAPPLE INTERIOR CUT

# Launching Point

triggered an interest in composite systems (skins). The field condition created by the aggregation of modules comprises a broader system of moisture retention and impermeability in the pineapple.

The bulbous character seen in its seed-respective cells/modules, and the other component parts that make up the network of its skin, became analogous to an system of pouring (additive material) and the variability that can be introduced by scaffolding. The coexistence of a scaffolding framework with its cast result became a subject of inquiry.

# Re-interpreting Scaffolding (INTENT)

- individual variability and collective coherence.
- (2) Questioning the inherent linearity in the casting process by allowing for ambiguity in relationship between scaffolding and cast result.

#### Media

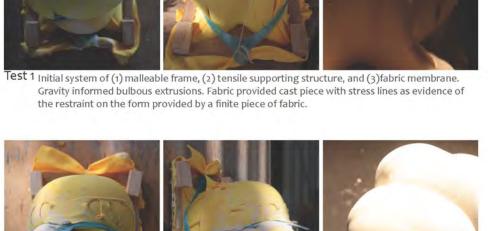
- -2 Way Stretch Fabric
- -20 mm acetate
- Plaster

The disparate texture seen in pineapple skins

- (1) Design of a flexible process-based system, rather than a premeditated result, allowing for



Gravity informed bulbous extrusions. Fabric provided cast piece with stress lines as evidence of the restraint on the form provided by a finite piece of fabric.





Test 2 Increasing number of frame members introduces a level of control in homogenizing bulbosity of the cast piece. Patterned fabric is introduced as an additional membrane constraining the cast product further.



Test 3 This step takes away the number of frames an allows the patterned, less stretchy fabric to perform as a constraining device. Cast result portrays secondary extrusion textures as a result of this controlled system of incremental-bulbosity.



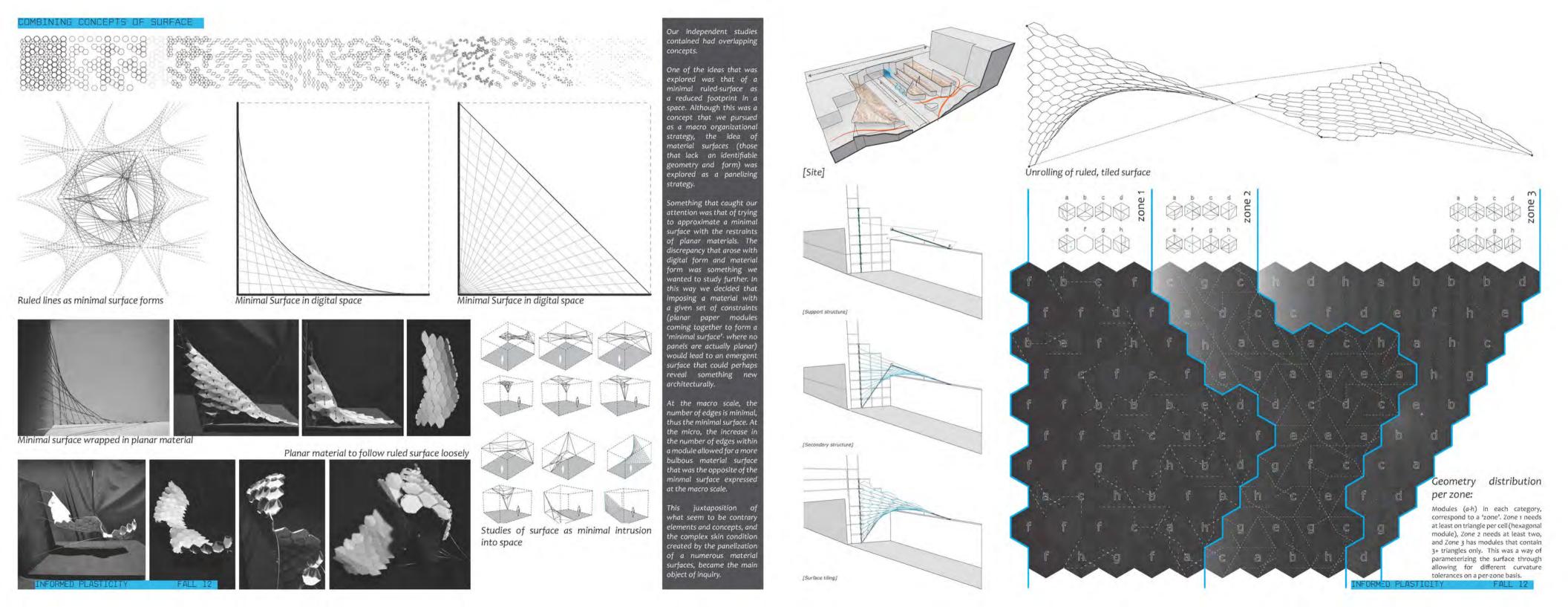
Test 4 This step scrapped the modular framework for experimenting with how the formwork (merely fabric, rubber bands, and masking tape) could be manipulated during the casting process to obtain a desired cast form.



Test 5 This step alters the module to have a higher number of connection points where the tensile structure (rubber bands) can interesect each frame. Tensile members of different thicknesses/ force-exerting capacity are introdoced uniformly and the cast form 'accidentally' expresses an aesthetic of incremental controls.



Test 6 Initial modules are rearranged to form a larger system. In this particular iteration the fabric utilized as a secondary control device stretches too much and thus doesn't articulate the surface texture in previous iterations.





# Modulating Enclosure

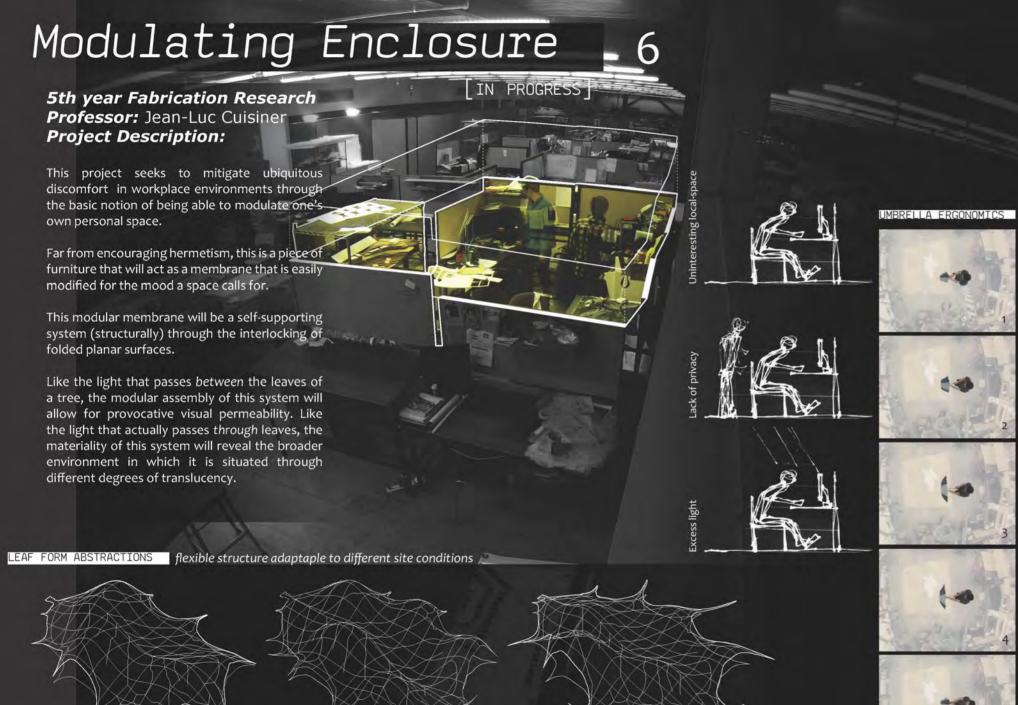
5th year Fabrication Research **Professor:** Jean-Luc Cuisiner **Project Description:** 

This project seeks to mitigate ubiquitous discomfort in workplace environments through the basic notion of being able to modulate one's own personal space.

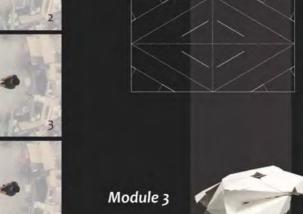
Far from encouraging hermetism, this is a piece of furniture that will act as a membrane that is easily modified for the mood a space calls for.

This modular membrane will be a self-supporting system (structurally) through the interlocking of folded planar surfaces.

Like the light that passes between the leaves of a tree, the modular assembly of this system will allow for provocative visual permeability. Like the light that actually passes through leaves, the materiality of this system will reveal the broader environment in which it is situated through different degrees of translucency.











"All previous revolutions had, as their goal, the attainment of some new state of equilibrium. What we are seeing in our time is a new order of revolution, whose goal is not a new equilibrium, but social disorder itself. It is the first social recognition that continuous change itself is a form of equilibrium- and that it is only in disorder that we find order. These kids are 'surfing' and it is the essence of surfing that one should ride the turbulence without succumbing to it. You cannot have fun surfing on a slow wave- and you cannot surf at all on a frozen one."



# marco thomas juliani

may 2013 marcotjuliani@gmail.com (520) 954-8150