

MARTHA DELVALLE ZAMBRANO

ARCHITECTURAL PORTFOLIO

MARTHA DELVALLE ZAMBRANO

ARCHITECTURAL DESIGNER
BROOKLYN, NEW YORK 11249
MARDELZAM@GMAIL.COM
+1 646 469 7047

EDUCATION

THE BERNARD AND ANNE SPITZER SCHOOL OF
ARCHITECTURE AT THE CITY COLLEGE OF NEW
YORK
B. ARCH (2015 - 2020)

THE BEUTH UNIVERSITY OF APPLIED SCIENCES
BERLIN
STUDY ABROAD (SUMMER 2018)

THE STELLA AND CHARLES GUTTMAN
COMMUNITY COLLEGE
A.A. BUSINESS ADMINISTRATION (2012 - 2014)

EXPERIENCE

RAYMOND HO ARCHITECT PLLC.
JUNIOR ARCHITECT (2018 - 2021)

CITY COLLEGE OF NEW YORK
ARCHIVAL DATABASE (2018 - 2019)

LANGUAGES

ENGLISH
SPANISH

PROGRAMS

AUTOCAD, RHINO, REVIT, ILLUSTRATOR,
PHOTOSHOP, INDESIGN, ACROBAT

EXTRACURRICULAR

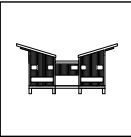
THE ARCH LEAGUE MENTORSHIP
MENTEE (2019 - 2020)

PROJECTS



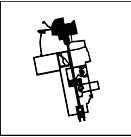
01 EDUCATIONAL RESEARCH
CENTER, SPRING 2020

LOCATION: FLUSHING, NEW YORK, USA.
PROFESSOR: JULIE NELSON
INDIVIDUAL PROJECT



02 ECO SOUTHERN HOUSE,
SPRING 2019

LOCATION: JACKSON, MISSISSIPPI, USA.
PROFESSOR: NANDINI BAGCHEE
INDIVIDUAL PROJECT
(PUBLISHED IN BUILDING A TRANSITION CITY:
THE EWING STREET ECO-VILLAGE COOP PILOT
PROJECT)



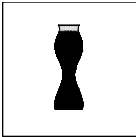
03 PALACE OF DREAMS,
FALL 2019

LOCATION: TIRANA, ALBANIA.
PROFESSOR: ELISABETTA TERRAGNI
PARTNER: REBECCA LAUSEN
(SELECTED FOR CITYWORKS AT SPITZER)



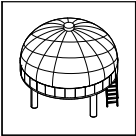
04 WOBURN PUBLIC LIBRARY,
SPRING 2017

LOCATION: WOBURN, MASSACHUSETTS, USA.
PROFESSOR: HOWARD DUFFY
INDIVIDUAL PROJECT



05 AIR CONTROL TOWER, SPRING
2018

LOCATION: QUEENS, NEW YORK, USA.
PROFESSOR: PHILIP LEE
PARTNERS: SANTIAGO NEVILLE & CESAR SOTO



06 MICROHOME,
WINTER 2020

LOCATION: NEW YORK, NEW YORK, USA.
FIRM: RAYMOND HO ARCHITECT
PARTNERS: RAYMOND HO



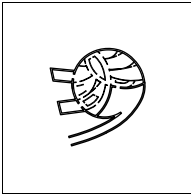
07 SURVEY NOTEBOOK, SPRING
2018

LOCATION: NEW YORK, NEW YORK, USA.
PROFESSOR: MARTA GUTMAN
(AWARDED BEST NOTEBOOK AT SPITZER)



08 WATERCOLOR NOTEBOOK,
2020

LOCATION: NEW YORK, NEW YORK, USA.
(PERSONAL HOBBY)



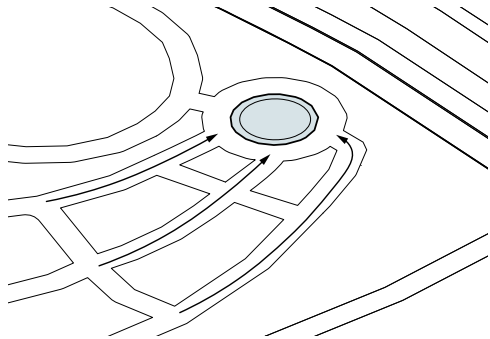
EDUCATIONAL RESEARCH CENTER, SPRING 2020

Location: Flushing, New York, USA.
Professor: Julie Nelson
Individual Project

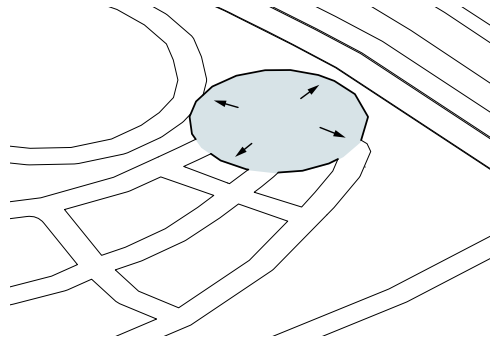
The Institute of Soil is +6,300 sq ft educational building that would teach visitors the process and benefits of fertile soil. The building is sitting on the existing Circle Garden and is pulled underground 14 feet from grade. The building has three entry points that were designed using the existing paths that led to the Circle Garden. The program within the building is divided up with the concept of root growth, which is having a main root (research space) that supplies the secondary roots (workspace and learning space). The overall building is held by the same 24" retaining walls used in my prototype so researchers can take samples quicker. The building is sealed above with a biodiverse roof garden that contains some of the excavated fertile soil. This subterranean facility was to appreciate and celebrate the importance and beauty of healthy soil as well as teach visitors on the types of soil that exist.



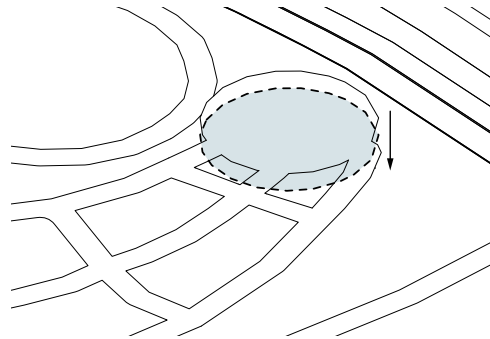
FLUSHING, QUEENS REGION SHOWING THE QUEENS BOTANICAL GARDEN



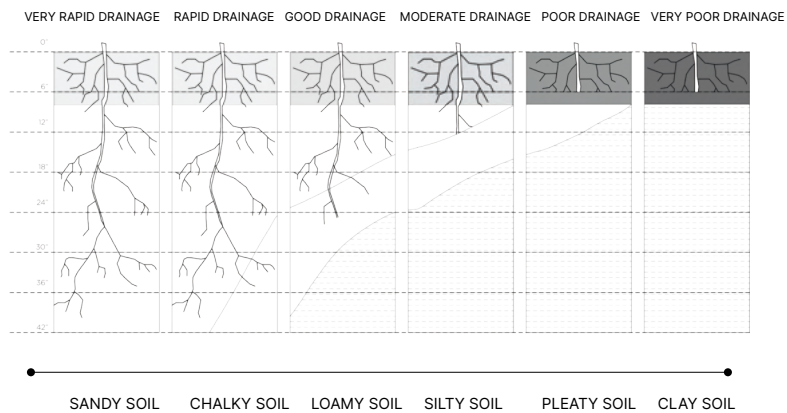
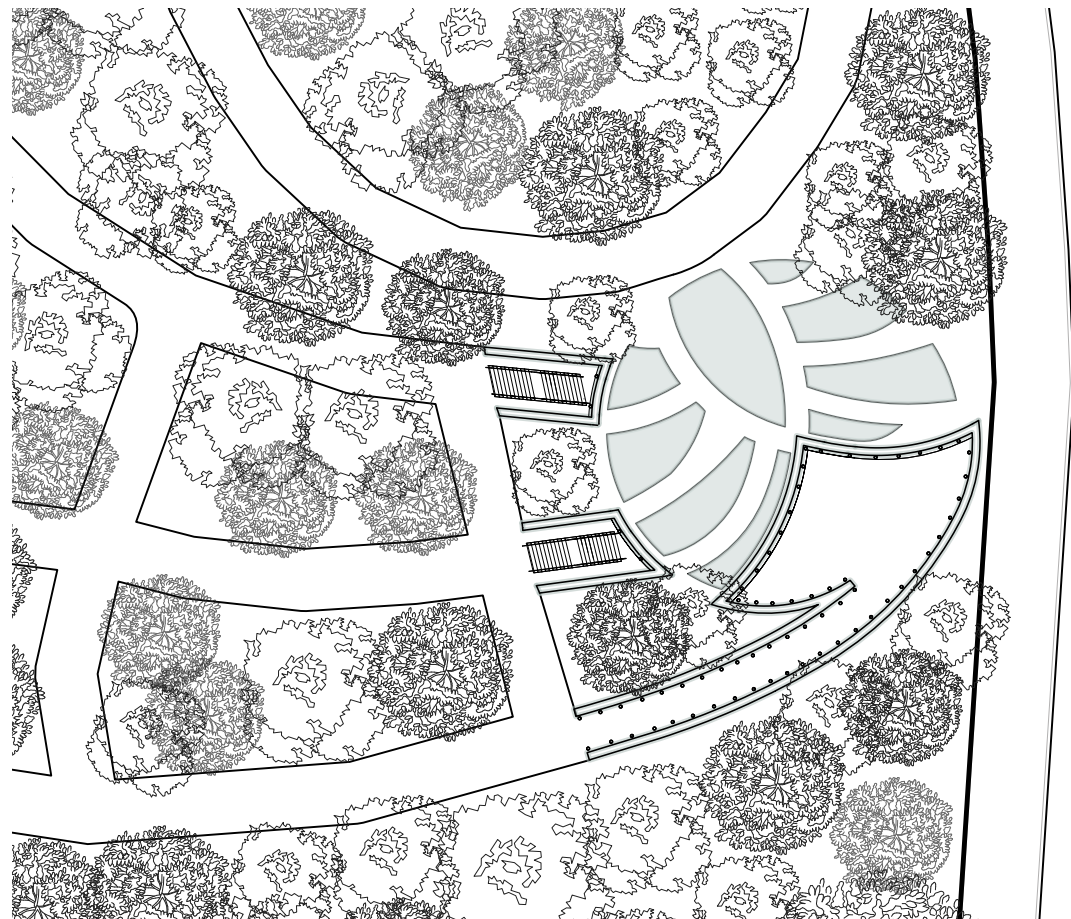
1. **FOLLOW** THE EXISTING PATHS LEADING TO THE GARDEN CIRCLE



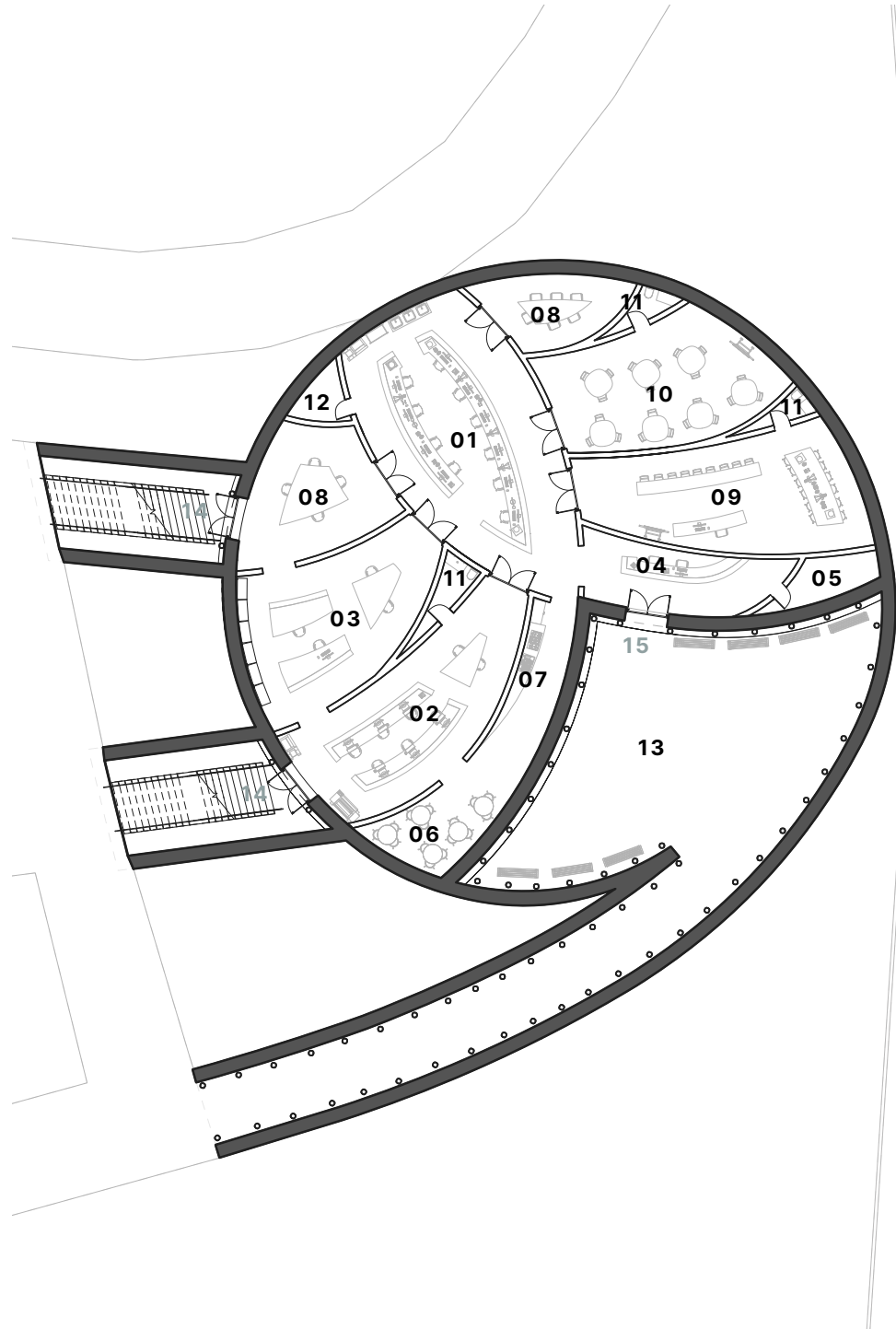
2. **EXPAND** THE EXISTING CIRCLE GARDEN TO 95' IN DIAMETER



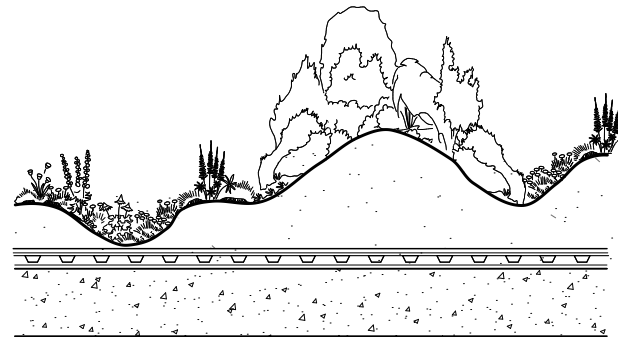
3. **DROP** THE GARDEN 12' BELOW GRADE TO BE GUIDED BY A SPIRALING PATH



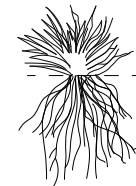
ACCESSIBLE ROOF TOP GARDEN FOR PLANT CULTIVATION AND SOIL STUDY



- 01 RESEARCH LAB
- 02 OFFICE
- 03 ARCHIVE
- 04 RECEPTION
- 05 HVAC/MEP
- 06 LOUNGE
- 07 KITCHEN
- 08 MEETING
- 09 CLASSROOM 1
- 10 CLASSROOM 2
- 11 BATHROOM
- 12 SHOWER
- 13 GARDEN
- 14 STAFF ENTRY
- 15 PUBLIC ENTRY



FIBROUS ROOTS



has many small roots of the same length, the same thickness, and the same shape

WATER ROOTS



fragile thin roots that grow underwater

CREeping ROOTS



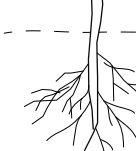
roots that are shallow, long and does not penetrate the soil

ADVENTITIOUS ROOTS



a root that start from the stem above the soil that goes down into the earth

TAPROOTS



has a large, central, and dominant root from which other roots sprout laterally

PARASITE ROOTS

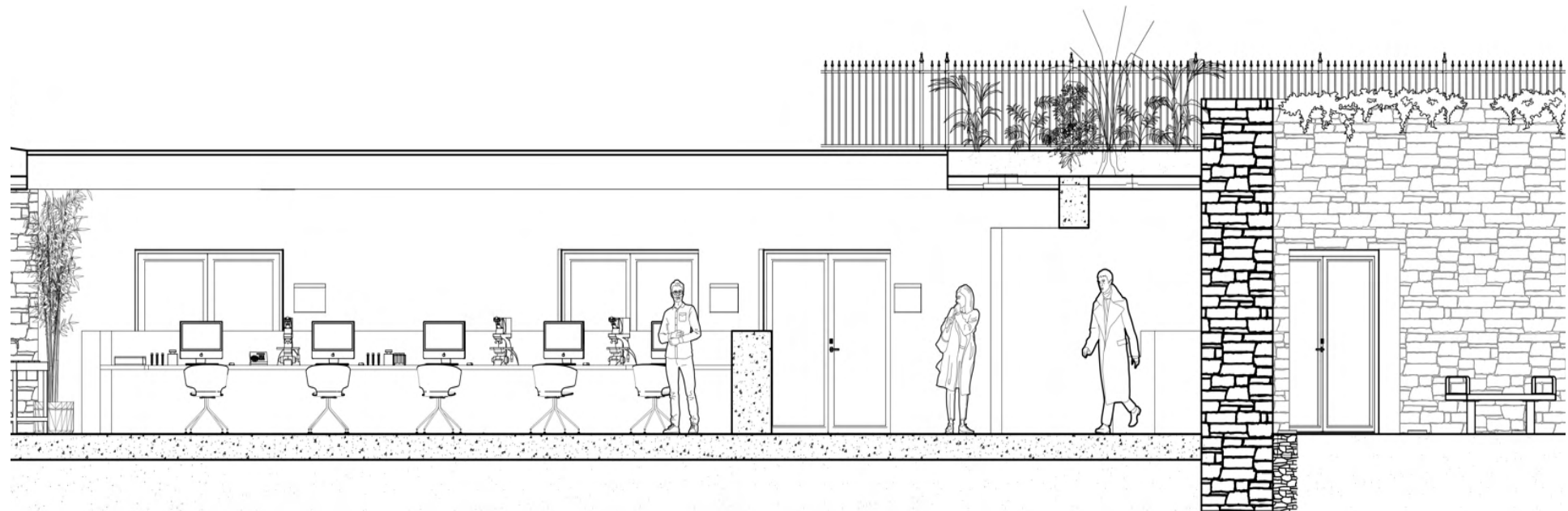


roots that penetrate a host plant

TUBEROUS ROOTS



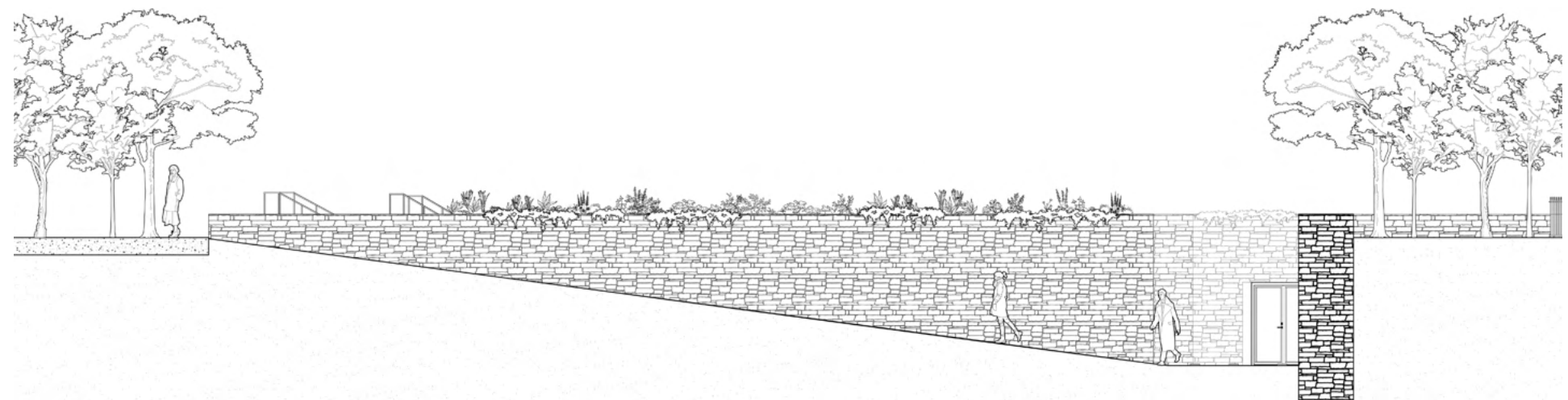
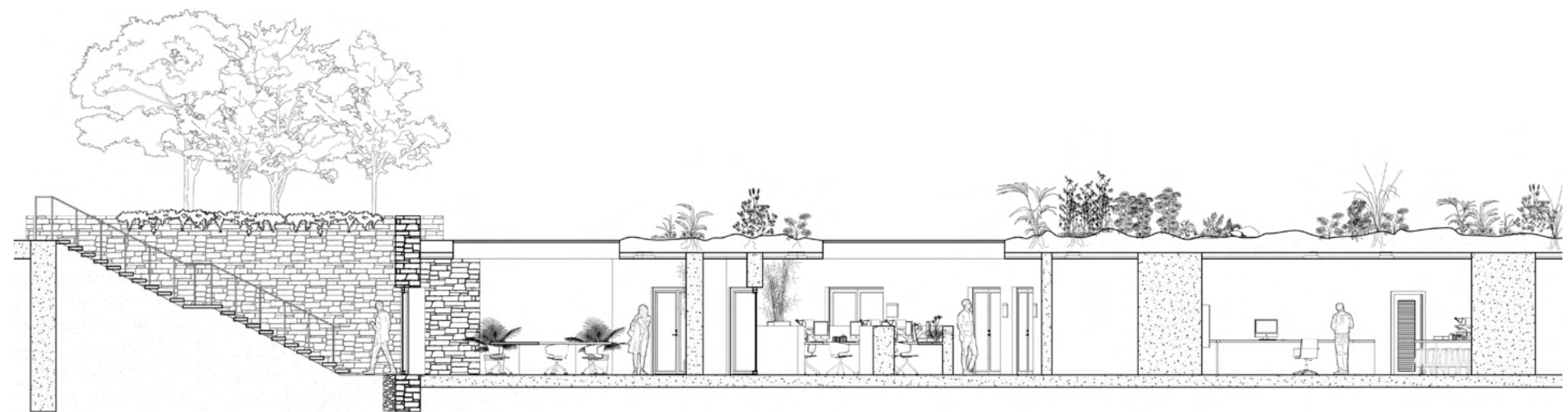
thick roots that swell up and become storage for nutrients



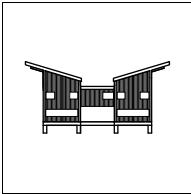
CENTRAL AREA FOR LAB STUDIES AND EXPERIMENTS



ARTIFICIAL LIGHT ANALYSIS FOR OVERNIGHT WORKERS



STAFF ENTRY PATH AND PUBLIC ENTRY PATH



ECO SOUTHERN HOUSE, SPRING 2019

Location: Jackson, Mississippi, USA.

Professor: Nandini Bagchee

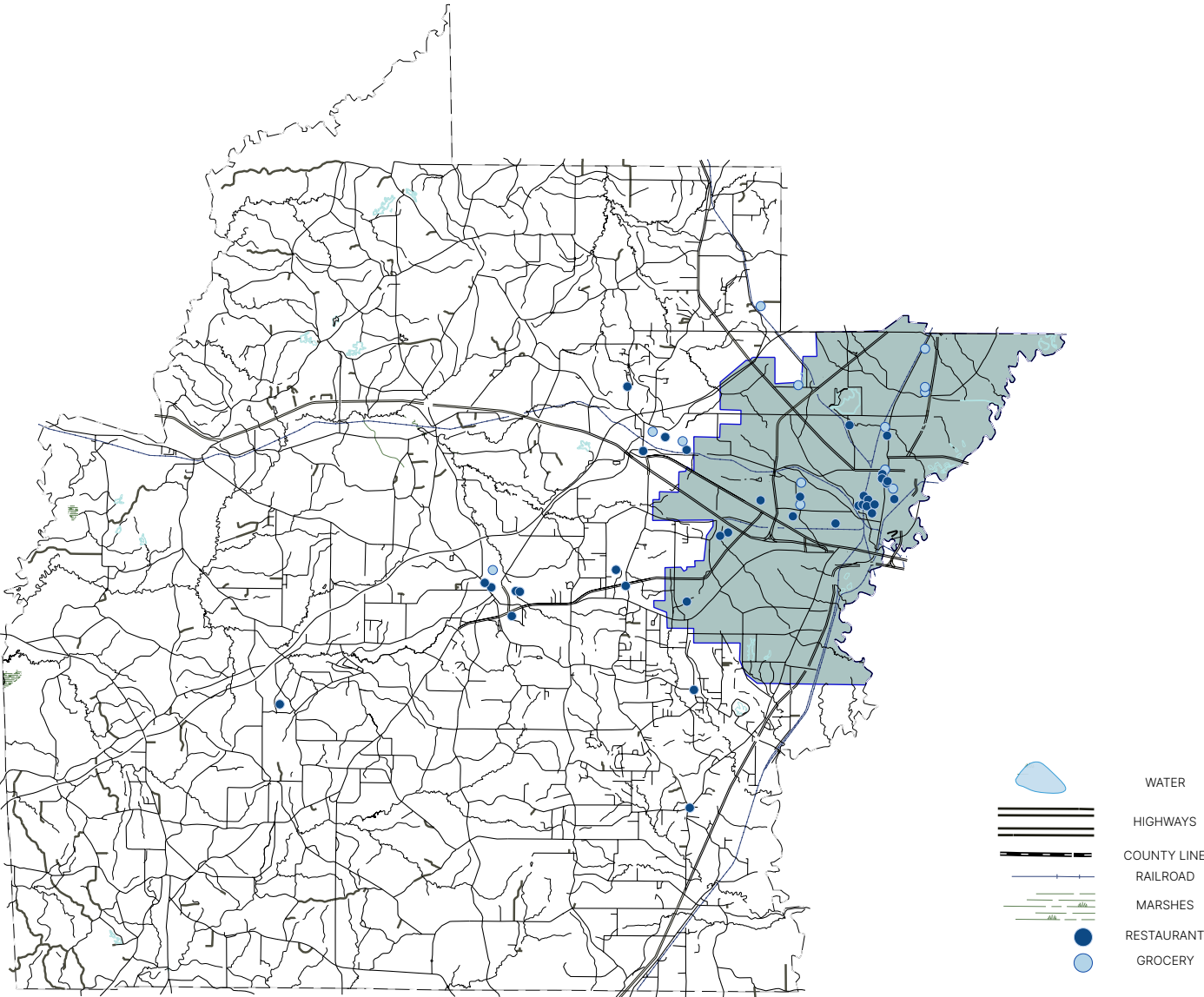
Individual Project

The project was to create a proposal for a single/duplex Eco house that takes into consideration the assembly and production as well as the broader ecological project for Jackson, Mississippi residents. In addition to address a conflict that residences face. The conflict I researched on was lack of grocery stores that are not in walking distance. We collaborated with Cooperation Jackson to ensure we were designing with the intent of fulfilling the needs of the African American community of Jackson.

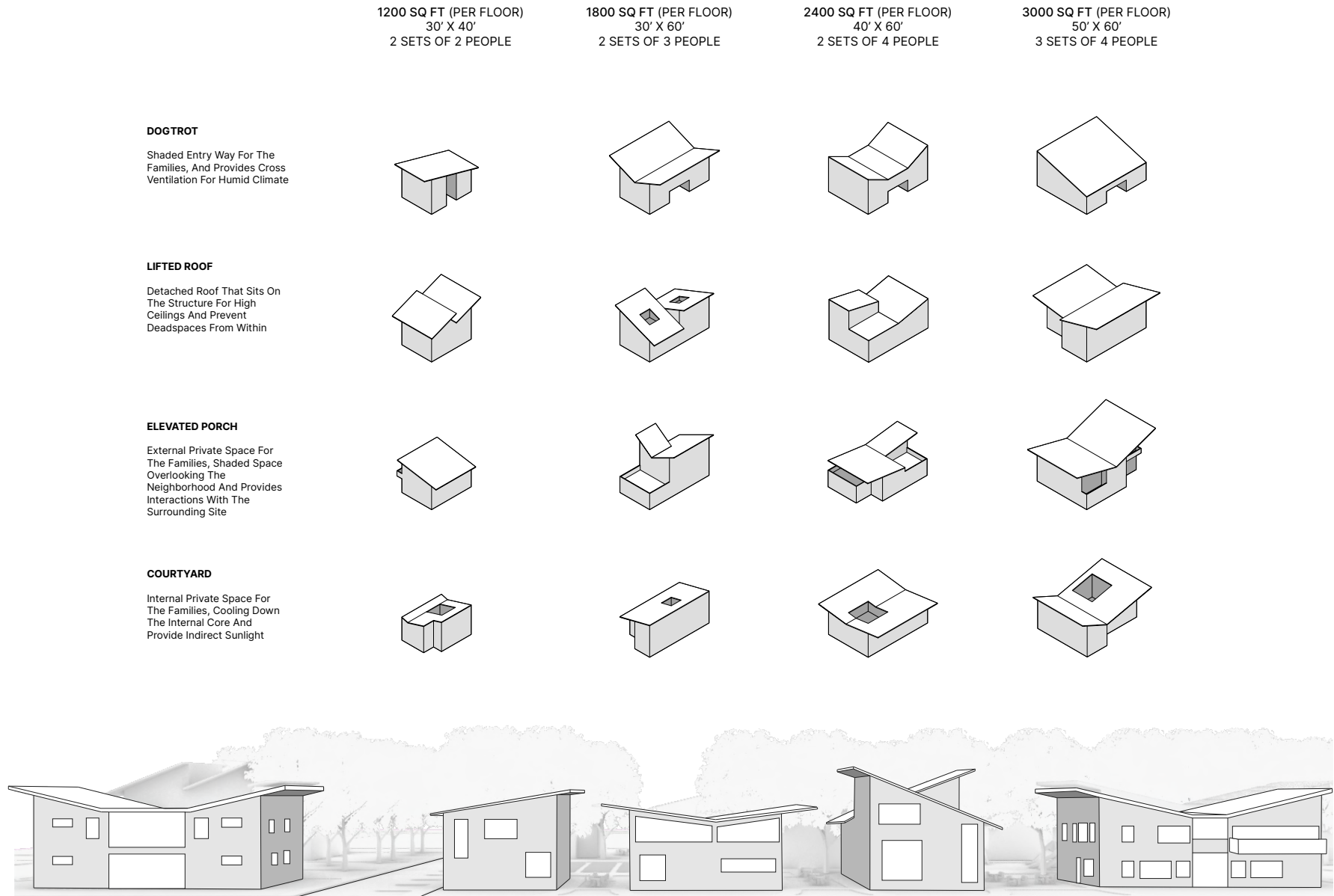
The house I proposed a two story to hold two medium size families with the idea of providing a connection with their adjacent neighbor. The pitched roof guides the seasonal rainshower into the courtyard that provides a communal space as well as a private garden. The house structure is designed to be built with prefabricated walls and to be erected on site. I did research on the state's agriculture and seasonal rainfalls.

Completed project was published in the booklet titled Building a Transition City: The Ewing Street Eco-Village Coop Pilot Project by architect, Nandini Bagchee.

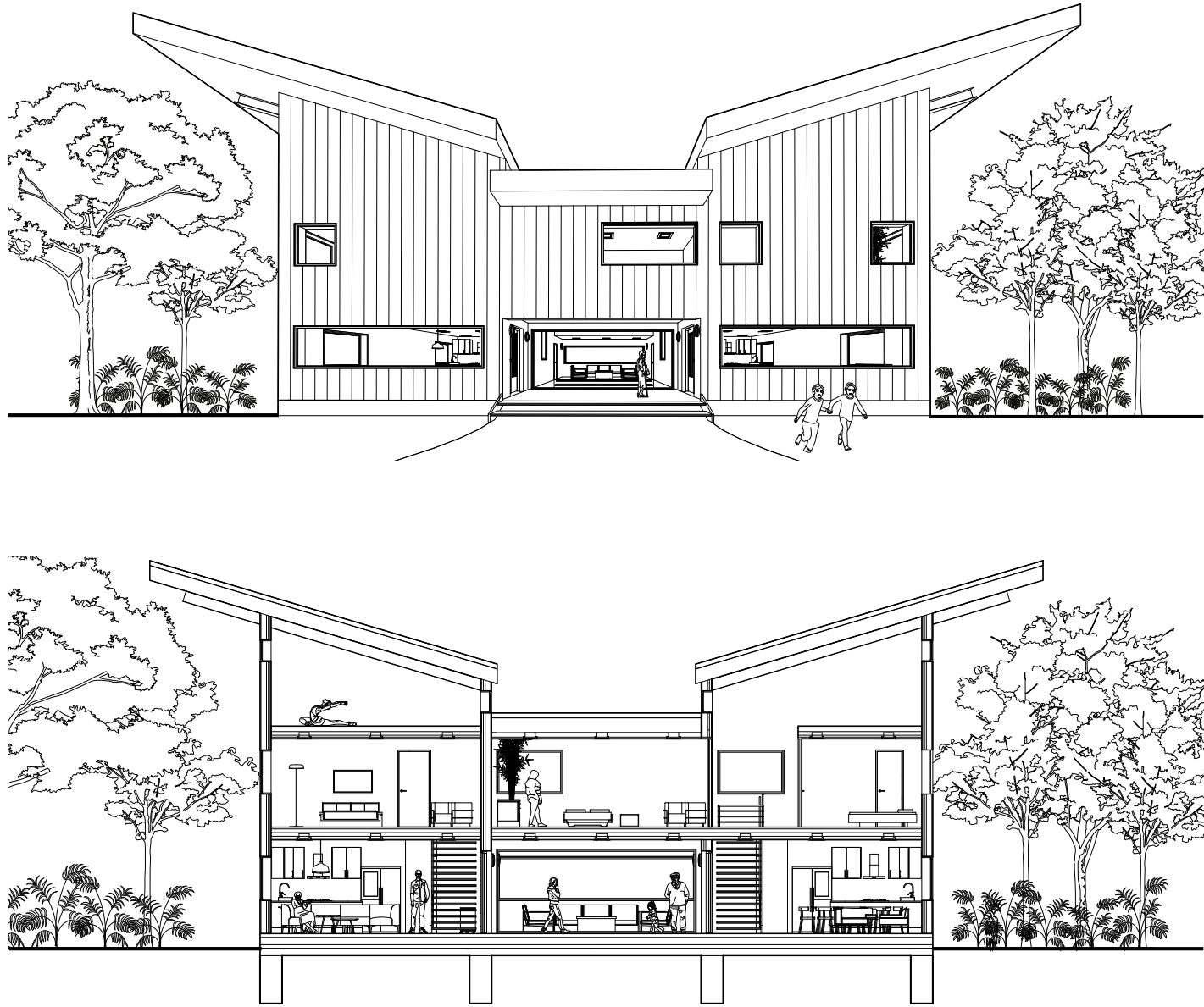
HINDS COUNTY
MISSISSIPPI



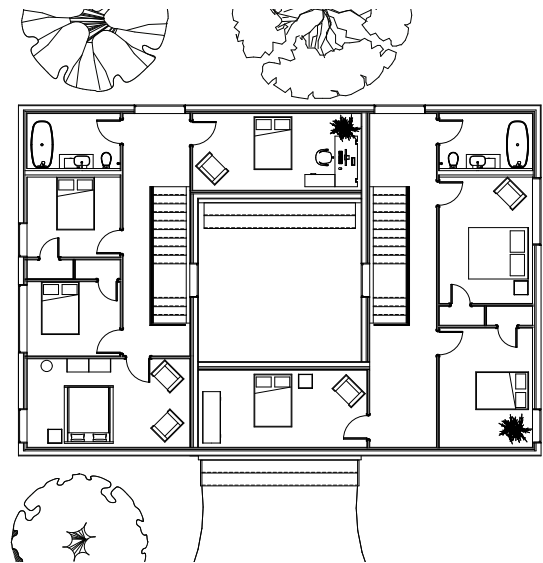
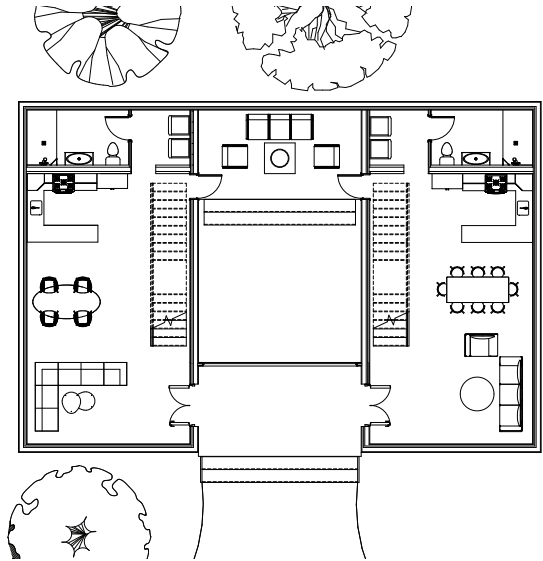
ANALYSIS OF HINDS COUNTY'S FOOD SOURCES



ANALYSIS OF SOUTHERN VERNACULAR ARCHITECTURE AND ELEVATION SCHEME OF NEIGHBORHOOD



PROPOSED PITCHED BUTTERFLY ROOF WITH 10'X10' COMMUNAL COURTYARD



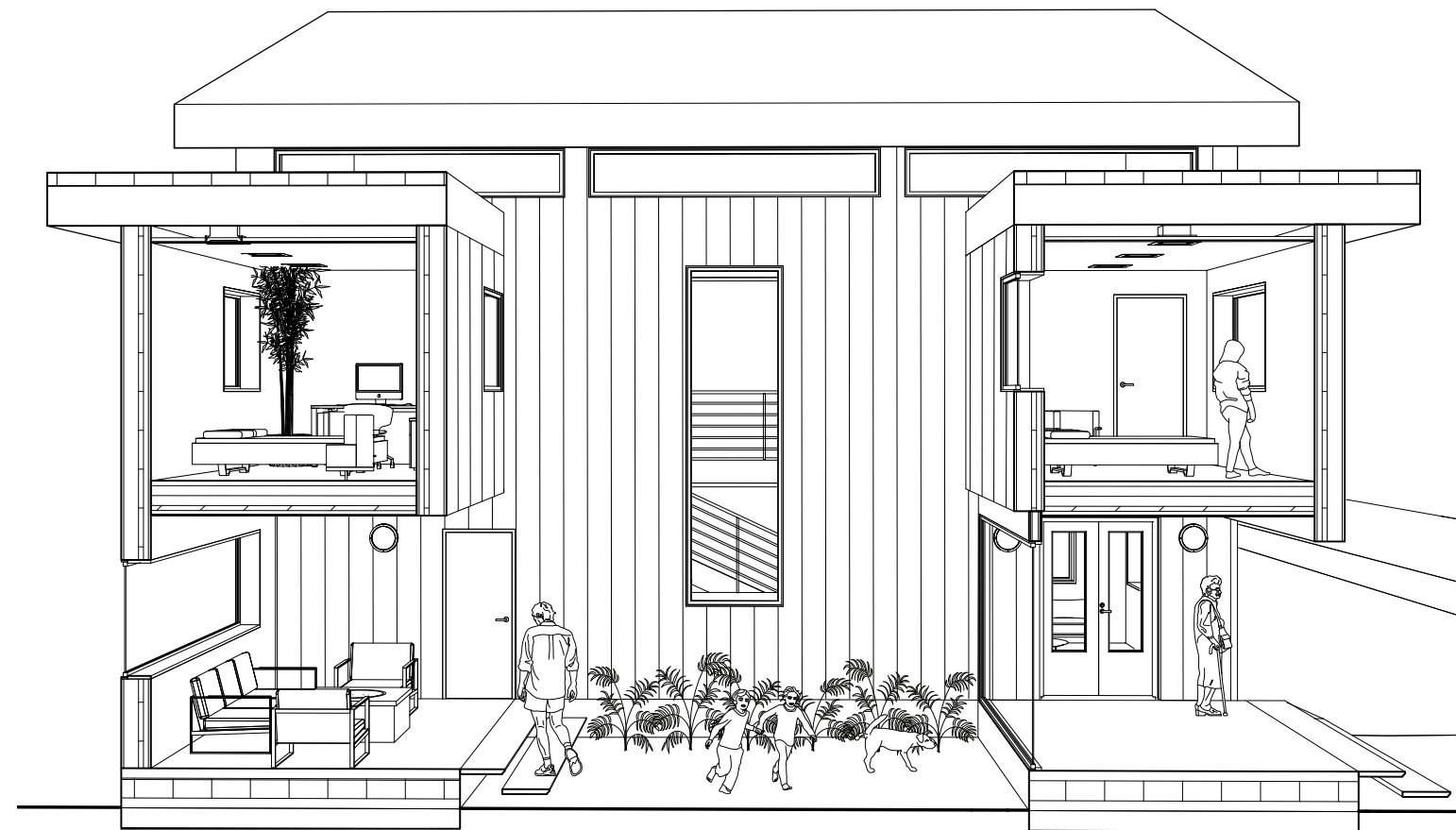
FIRST FLOOR, SECOND FLOOR, AND VIEW FROM COURTYARD



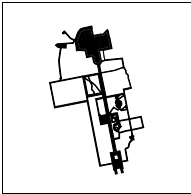
VIEW FROM FIRST FLOOR LIVING ROOM DESIGNED FOR ONE FAMILY



VIEW FROM SECOND FLOOR BEDROOM



SECTION CUT THROUGH THE SHARED COURTYARD AND FRONT PORCH

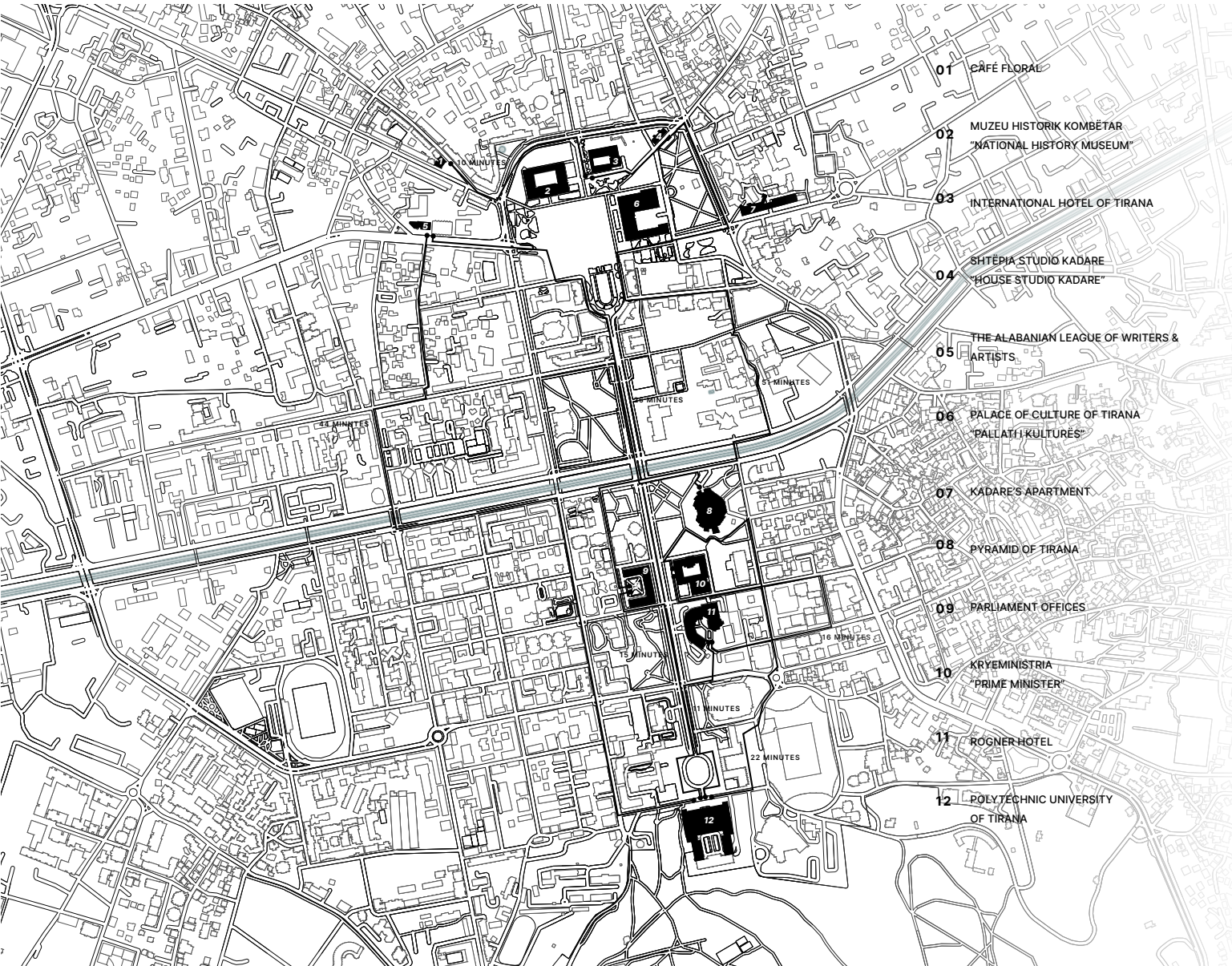


PALACE OF DREAMS, FALL 2019

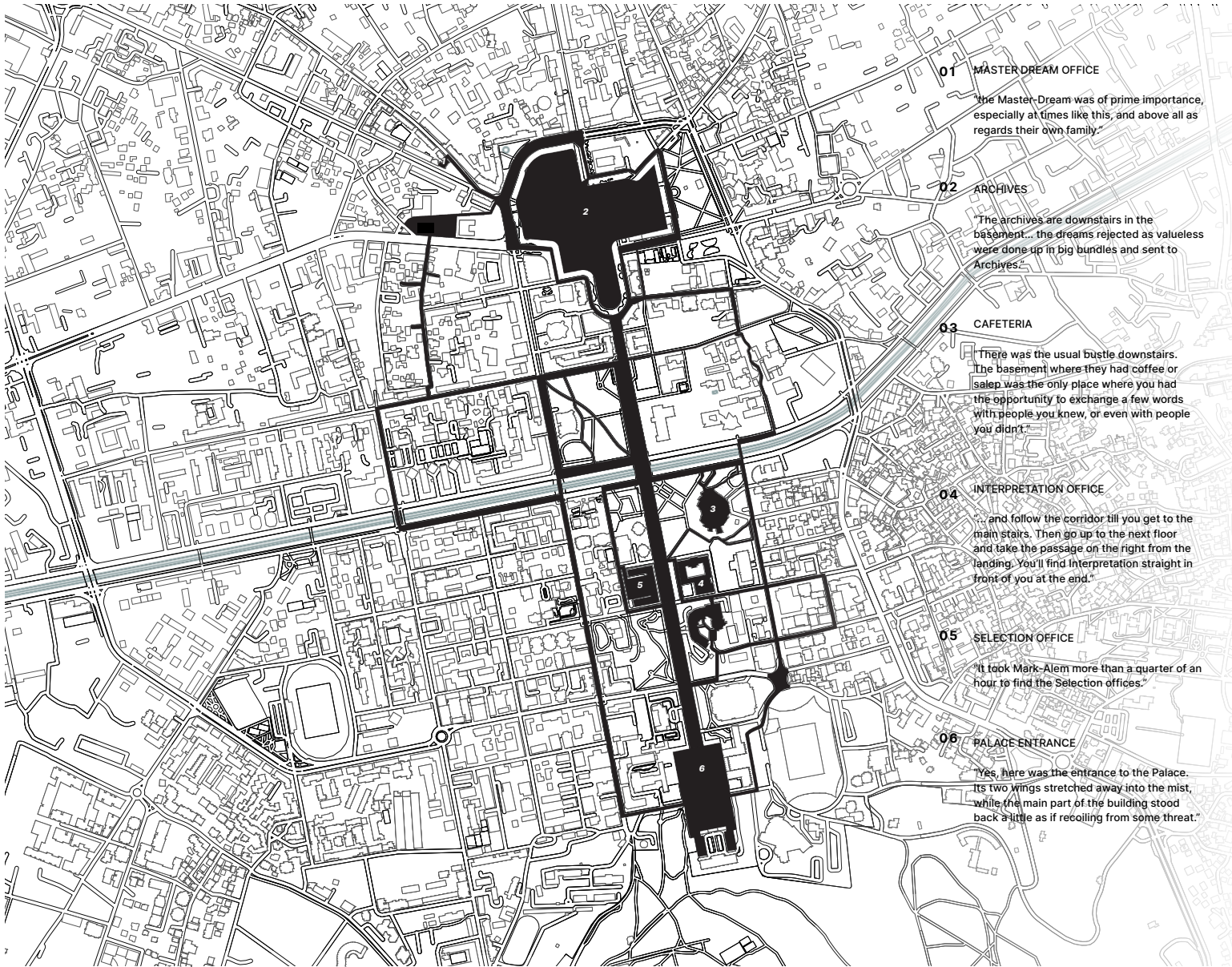
Location: Tirana, Albania.
Professor: Elisabetta Terragni
Partner: Rebecca Lausen

The studio was asked to read The Palace of Dreams by Ismail Kadaré and produce a building through the description of the main fictional character, Mark-Alem. The book entails about a government that has established an agency to collect the dreams of the population. This fantasy recognizes that dreams, while deeply private and immaterial, can have a bearing on how people feel and act. While dreams are images that exist only in the mind, they remain connected with the reality of the dreamer, both with life around her and with her inner experiences.

While being asked how big is this Palace of Dreams we were to draw and build this imaginative place by using descriptions of the story. The book is metaphorically describing the Albanian regime in the 1970s. Thus my partner and I used Tirana's city center as the canvas for our Palace of Dreams. We determined that palace is the length of the city's main boulevard, Bulevardi Dëshmorët e Kombit and the Universiteti Politeknik i Tiranës is the main entrance of the palace. We used the government buildings as sectors of the palace.



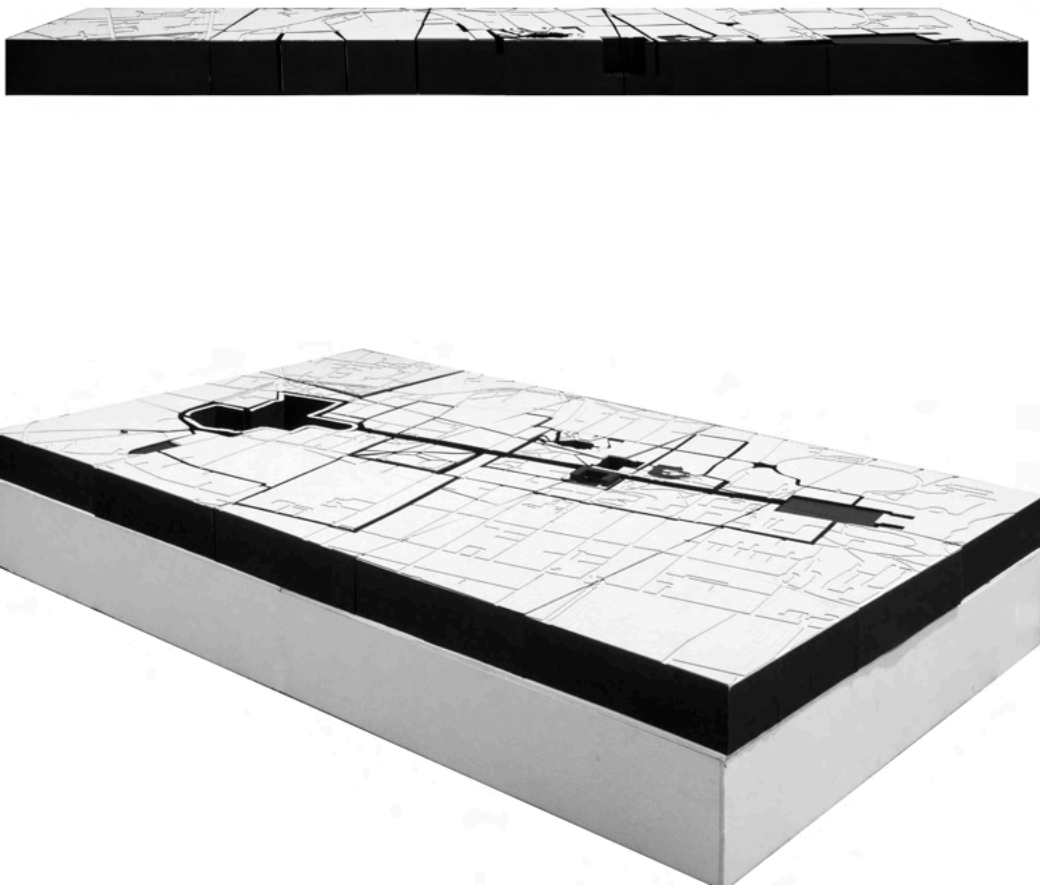
- 01 CAFE FLORAL
- 02 MUZEU HISTORIK KOMBËTAR
"NATIONAL HISTORY MUSEUM"
- 03 INTERNATIONAL HOTEL OF TIRANA
- 04 SHTEPIA STUDIO KADARE
"HOUSE STUDIO KADARE"
- 05 THE ALBANIAN LEAGUE OF WRITERS &
ARTISTS.
- 06 PALACE OF CULTURE OF TIRANA
"PALLATI I KULTURËS"
- 07 KADARE'S APARTMENT
- 08 PYRAMID OF TIRANA
- 09 PARLIAMENT OFFICES
- 10 KRYEMINISTRIA
"PRIME MINISTER"
- 11 ROGNER HOTEL
- 12 POLYTECHNIC UNIVERSITY
OF TIRANA

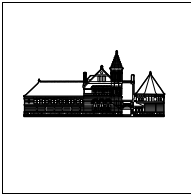


PALACE OF DREAMS PASSAGEWAYS



PALACE OF DREAMS 36" X 60" MODEL



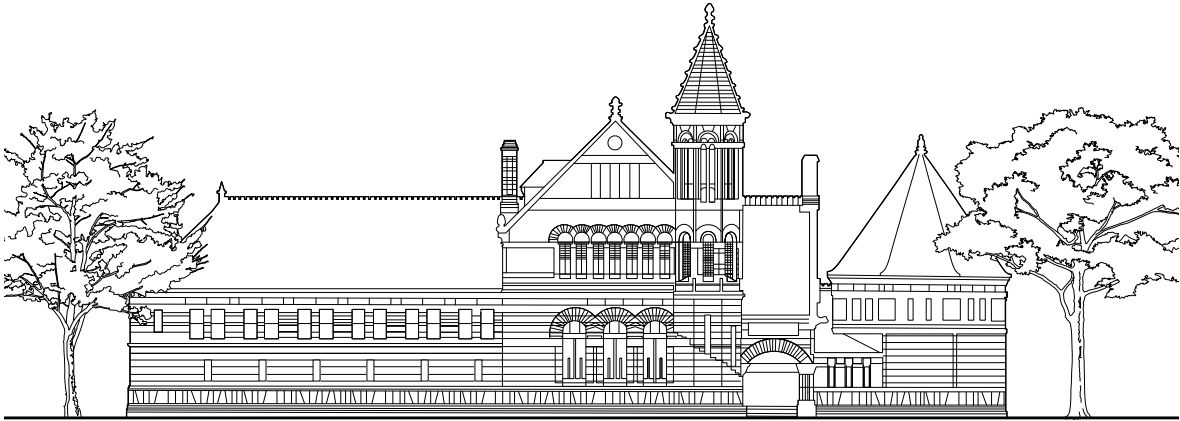


WOBURN PUBLIC LIBRARY, SPRING 2016

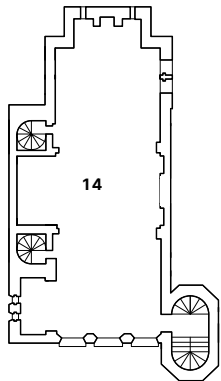
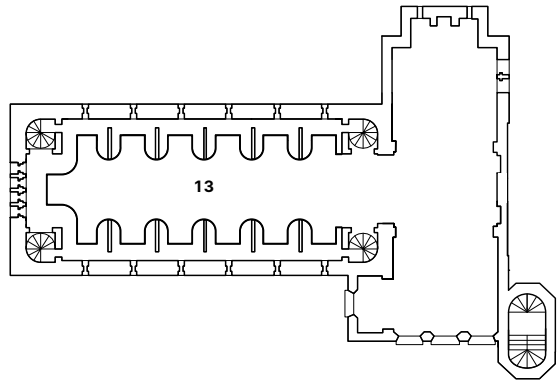
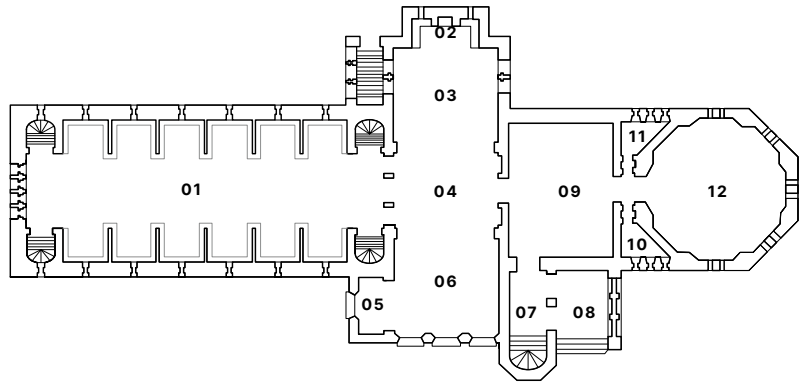
Location: Woburn, Massachusetts, USA.
Professor: Howard Duffy
Individual Project

The library study analysis of Woburn Public Library explores the use of construction materials during the 19th century. The historical structure was built in 1876–1879 by architect Henry Hobson Richardson and called Winn Memorial Library at the time. The 74,000 square feet Romanesque Revival building was built for the Winn family in memory of Jonathan Bowers Winn.

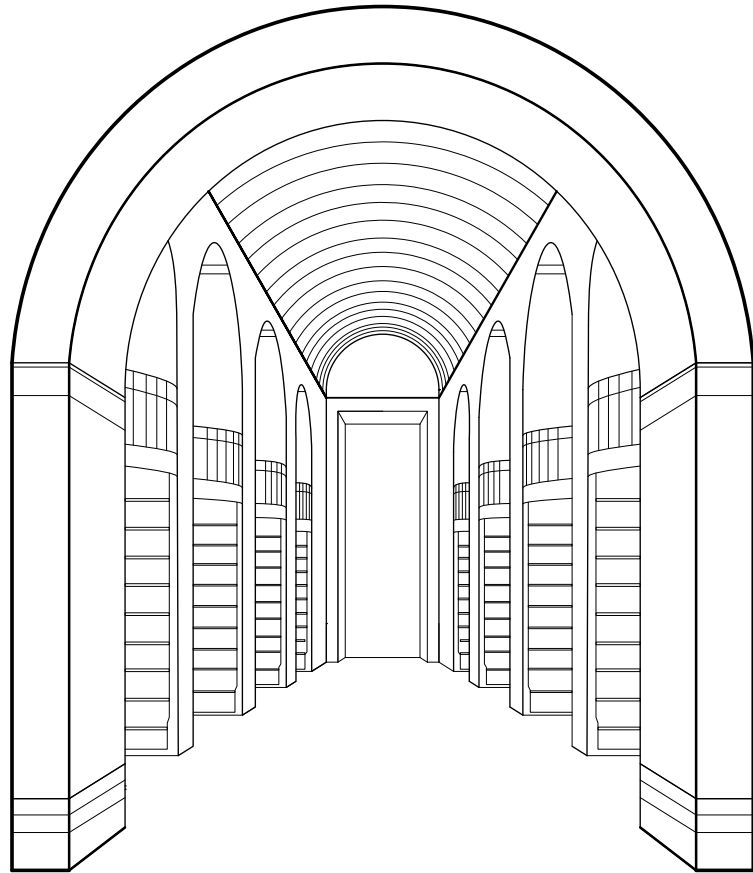
Analyzing the basilica plan and structure of the library to understand the construction. The library's south façade is a long, two-story stack wing with slit windows on the first story and a strip of clerestory windows separated by columns above. The gable-ended crossing in the center of the building has three arched double windows on the first story, a line of seven arched single windows above, and tall victorian style tower. On the opposite side of the tower is the arch of the entrance porch. The other end holds a two and half story octagonal wing that houses the museum. The building's exterior is covered in brownstone trimmed with lighter stone. The library is topped with a red tile roof trimmed and crocketed ribs on the roofs of the tower and museum.



CITY OF WOBURN AND FRONT ELEVATION OF THE LIBRARY

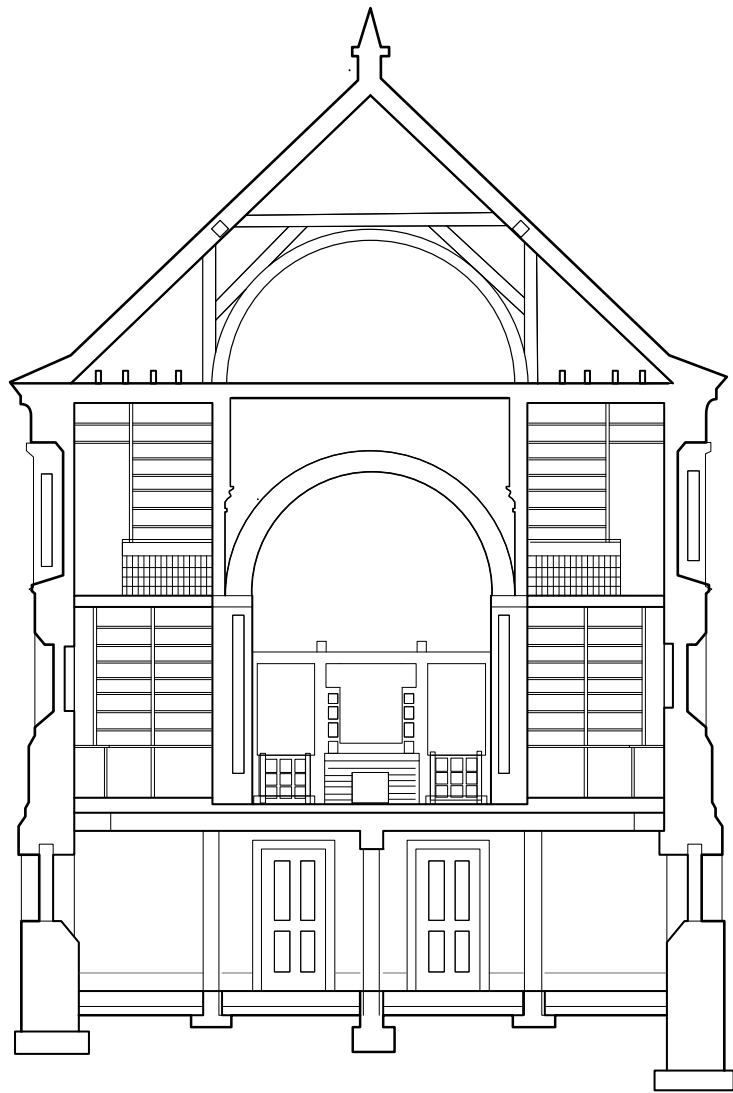


- 01 LIBRARY
- 02 FIREPLACE
- 03 READING ROOM
- 04 LIBRARIAN DESK
- 05 ALCOVE
- 06 READING ROOM
- 07 VESTIBULE
- 08 PORCH
- 09 PHOTO GALLERY
- 10 STORAGE
- 11 STORAGE
- 12 MUSEUM
- 13 LIBRARY BALCONY
- 14 ATTIC STORAGE

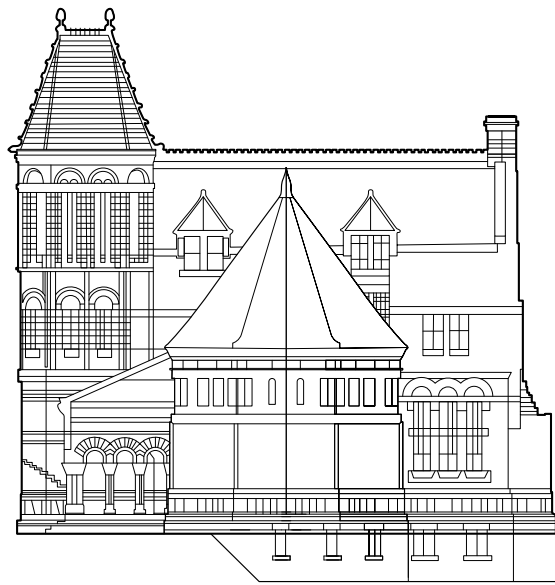
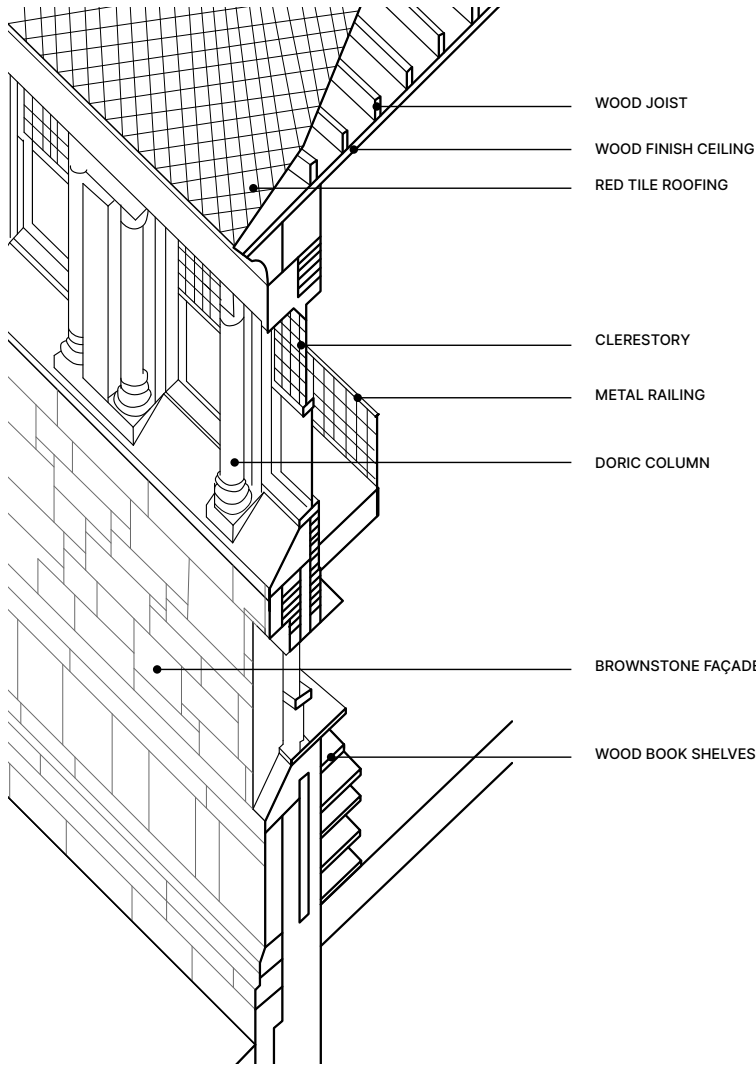


FIRST, SECOND AND THIRD FLOOR LAYOUT AND PERSPECTIVE DOWN THE TRANSEPT

EAST TO WEST SECTION THROUGH LIBRARY

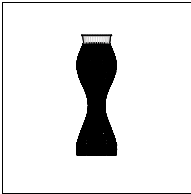


SECTION CUTTING THROUGHT THE TRANSEPT AND DETAIL WALL SECTION OF THE FAÇADE ON THE WEST END OF THE BUILDING



WEST END & EAST END ELEVATION AND STUDY MODEL OF THE LIBRARY'S GEOMETRY





Air Control Tower, 2018

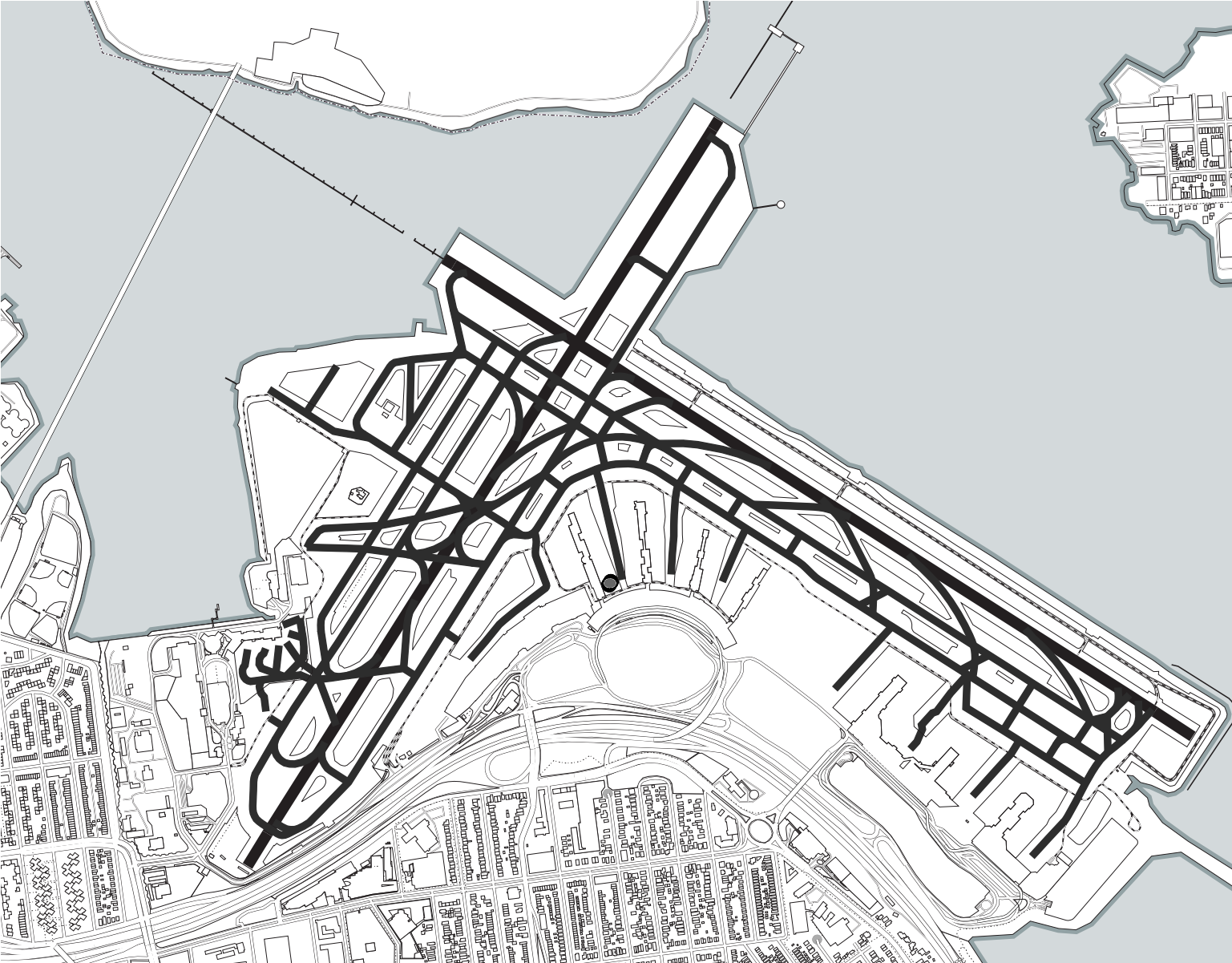
Location: Queens, New York, USA.

Professor: Philip Lee

Partners: Santiago Neville & Cesar Soto

The LaGuardia Airport located in Queens, New York is the 20th busiest airport in the United States and the second busiest in the state. The airport is in the heart of the most densely populated major city in the United States, so it needs to keep up with its nonstop flights.

All of the third year studios were to propose a air traffic control tower for LaGuardia Aiport that would also be a representation of New York City. My group and I designed a double curved façade that is also structural. The structure contains three different variations of panels, which consist of aluminum panels , glass panels and photovoltaic panels. Each placed to where the radiation of the sun hits the most. The photovoltaics in the sunniest sections, glass in the shadiest and aluminum in between the other two for transition. The body of the tower is capped with the observation deck that is inclined to create shade from the sun.



LAGUARDIA AIRPORT AND PROPOSED SITE OF AIR TRAFFIC CONTROL TOWER

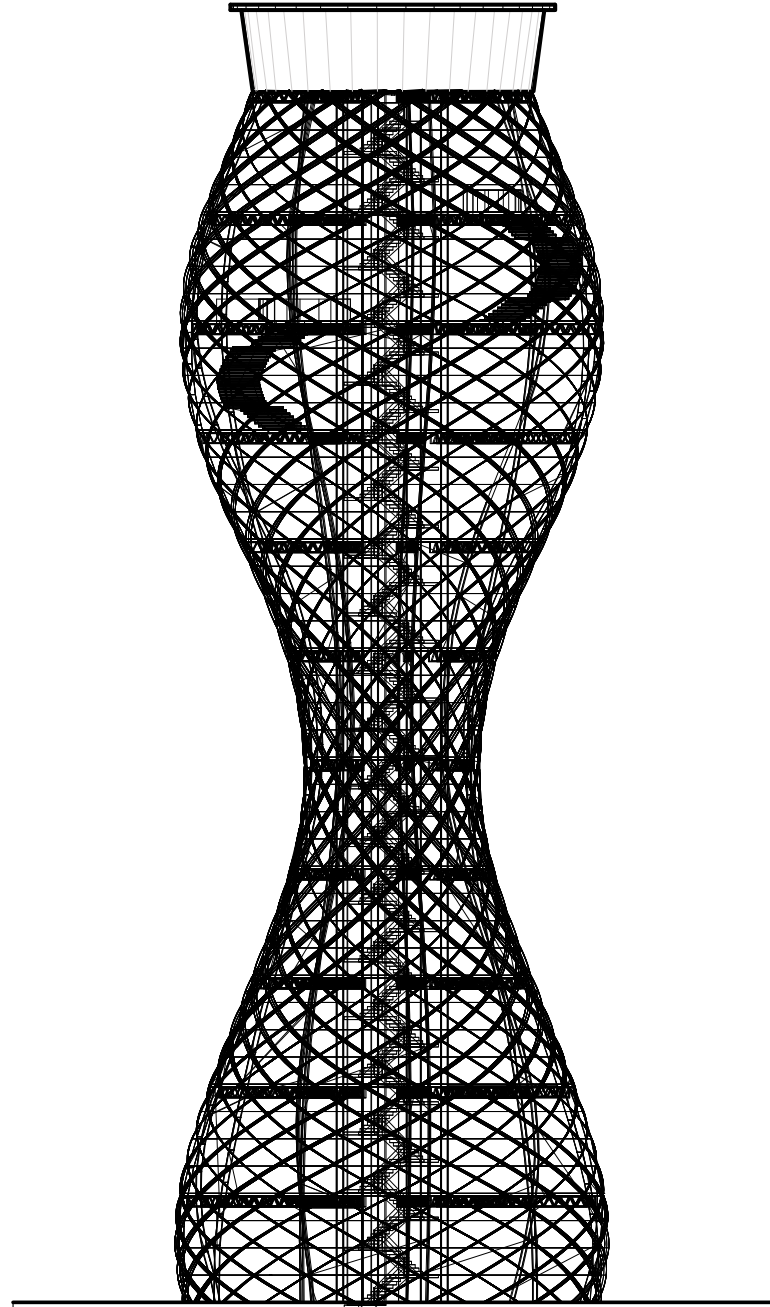
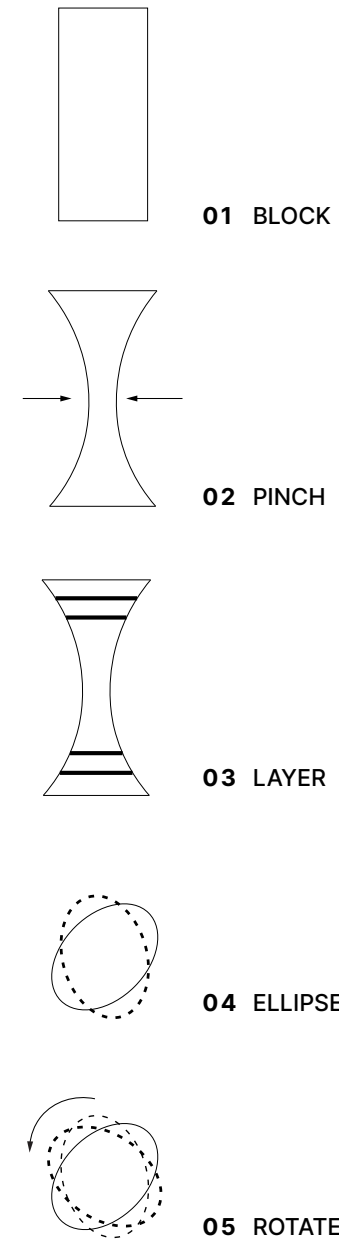
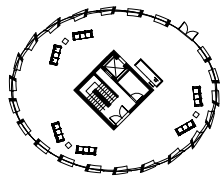


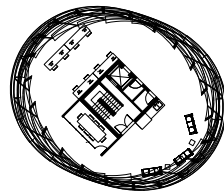
DIAGRAM SCHEME AND ELEVATION OF CONTROL TOWER



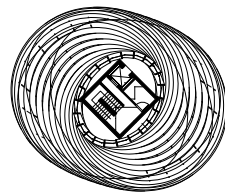
VIEW FROM THE GROUND UP



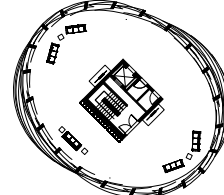
01 GROUND



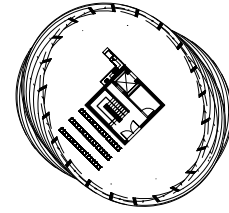
02 OFFICE



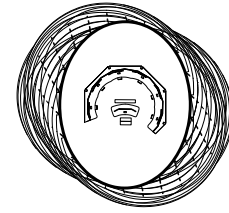
03 MEZZANINE



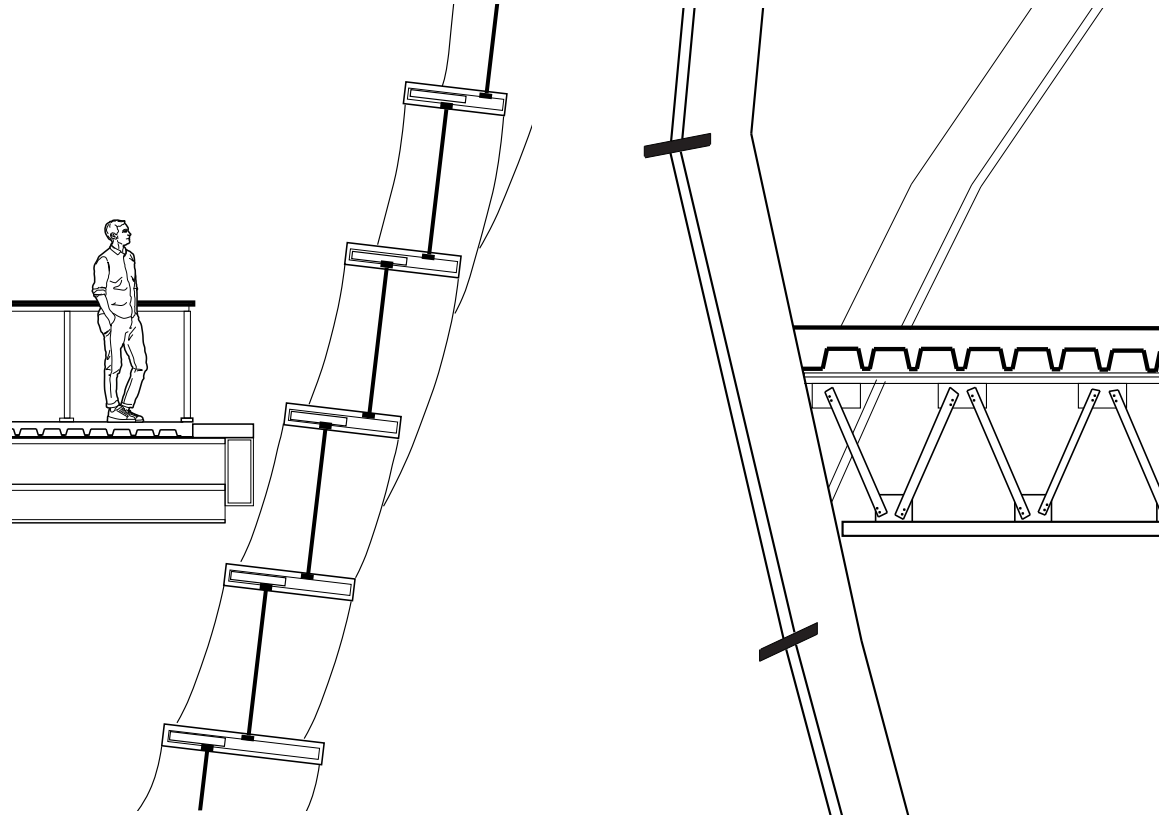
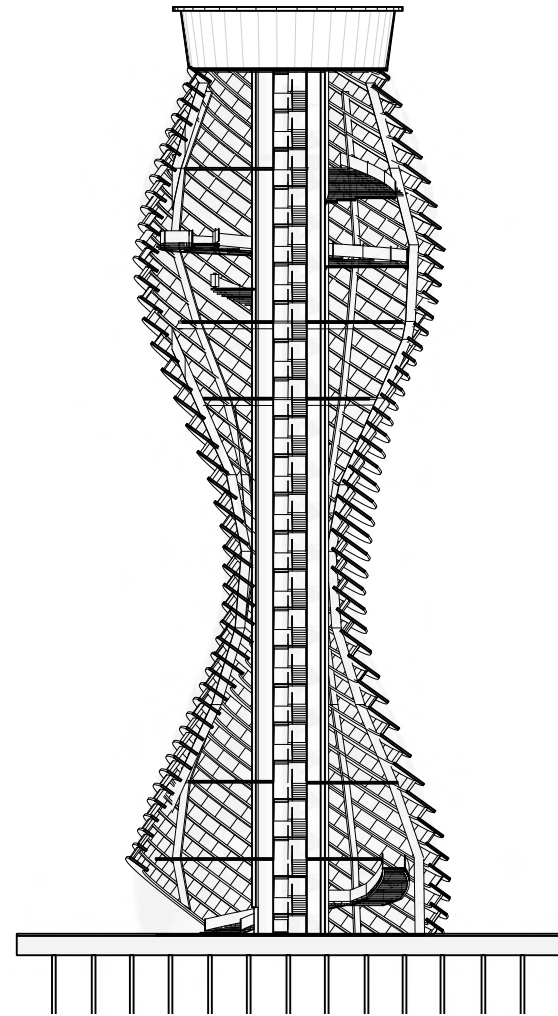
04 LOUNGE



05 KITCHEN



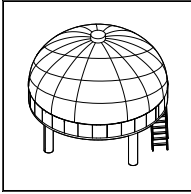
06 OBSERVATION DECK



FLOOR PLANS, SECTION AND SECTION DETAILS OF CONTROL TOWER



AERIAL VIEW LOOKING TOWARDS THE NORTH EASTERN REGION OF QUEENS

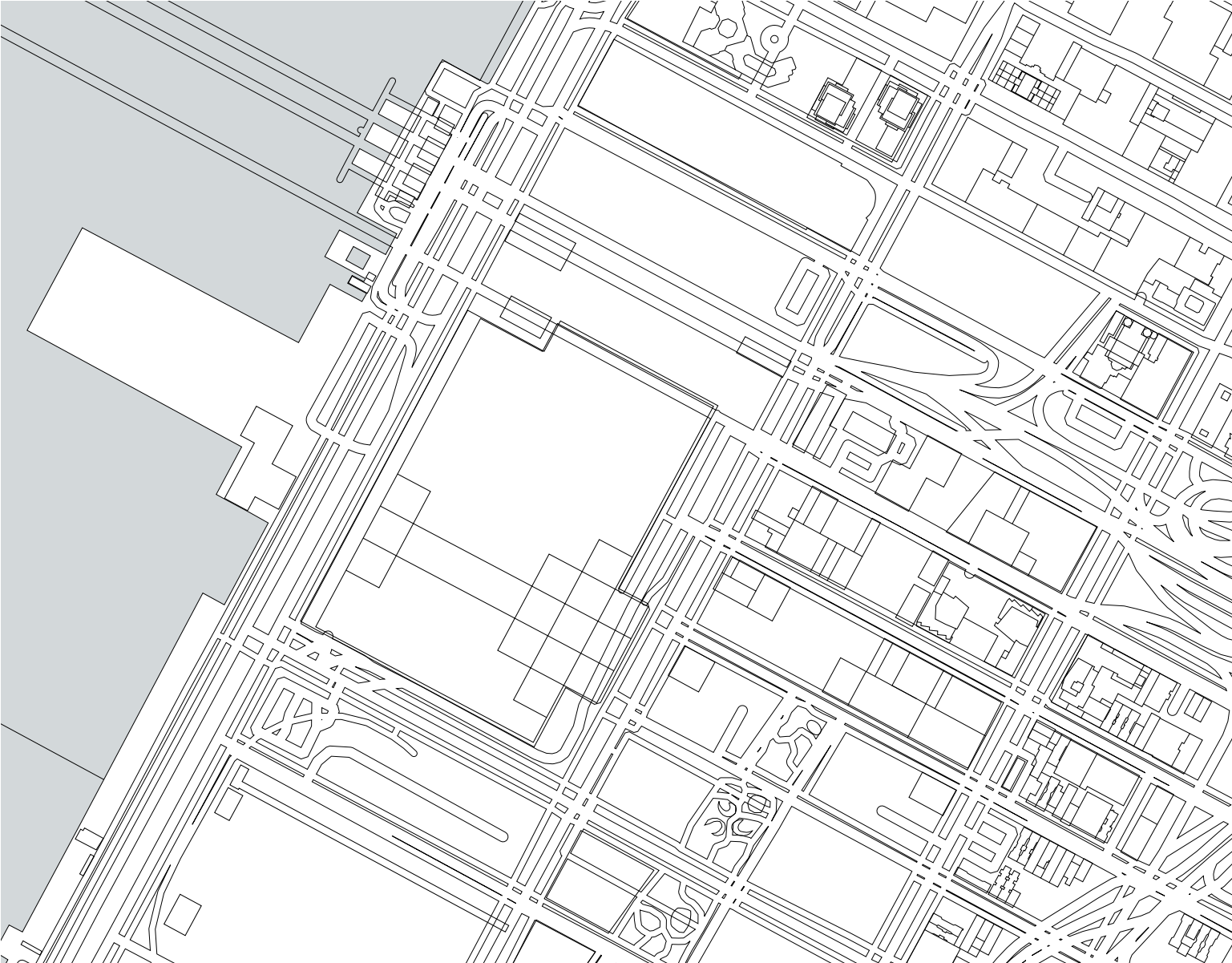


MircoHome Competition, 2020

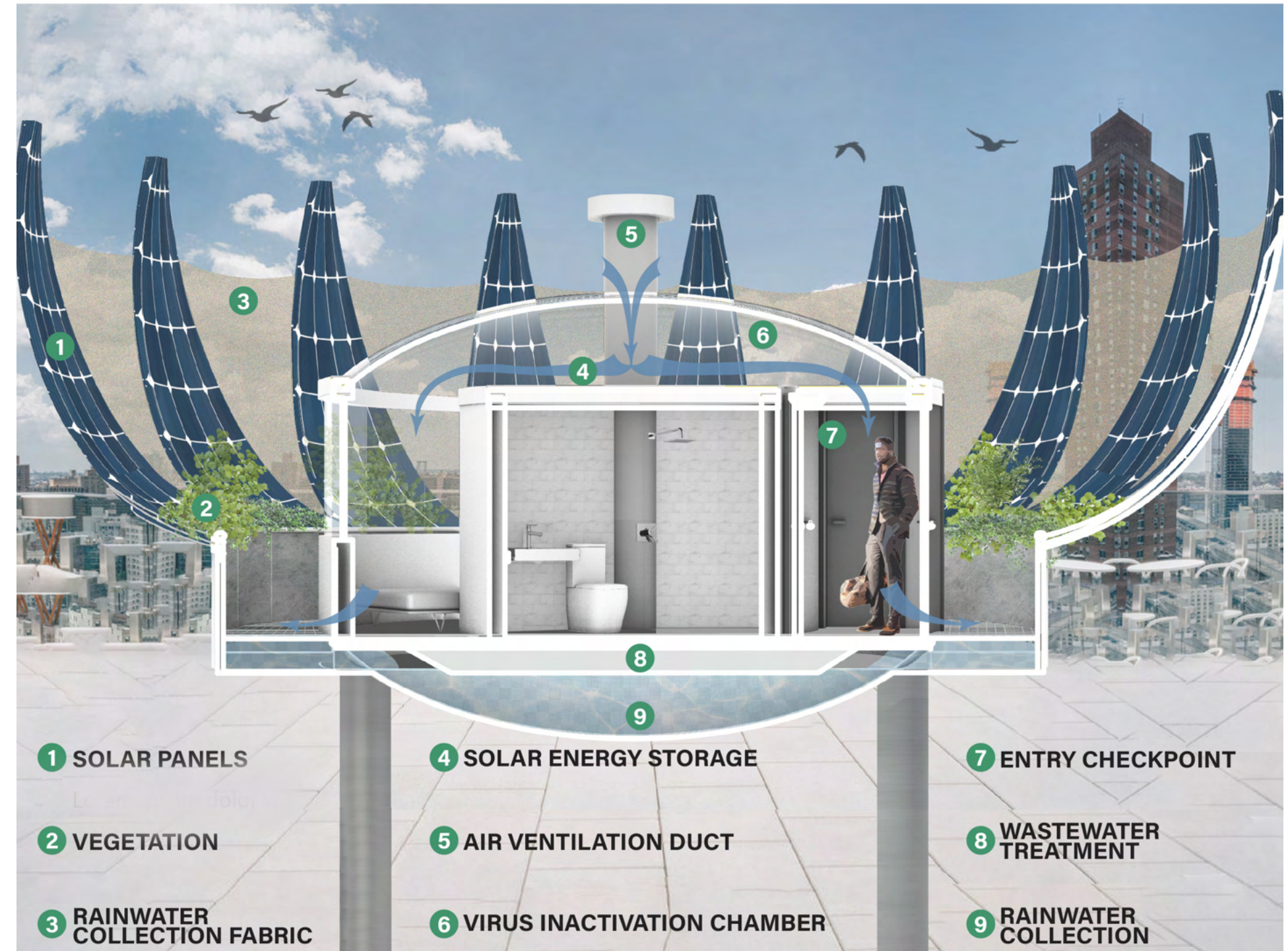
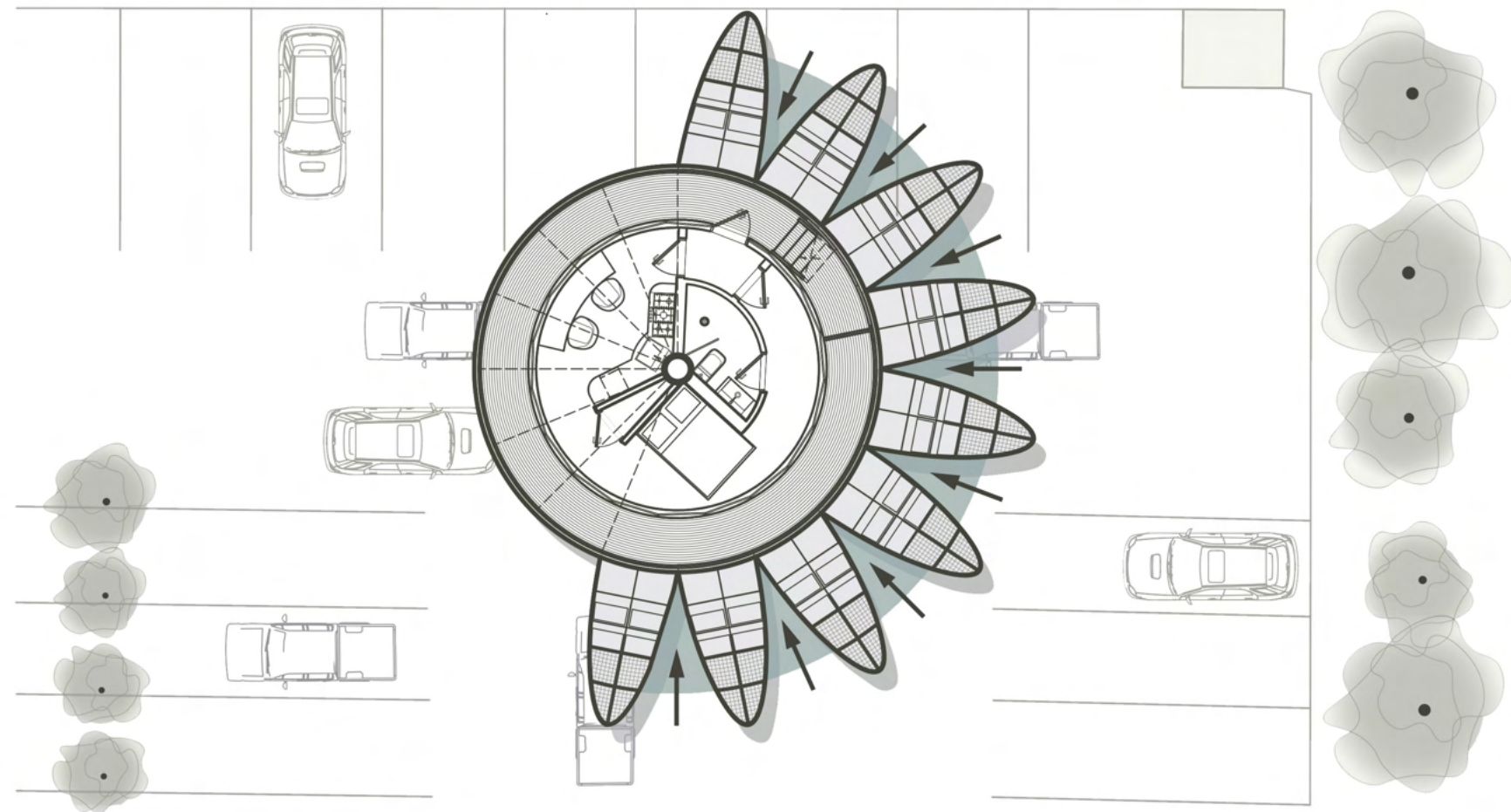
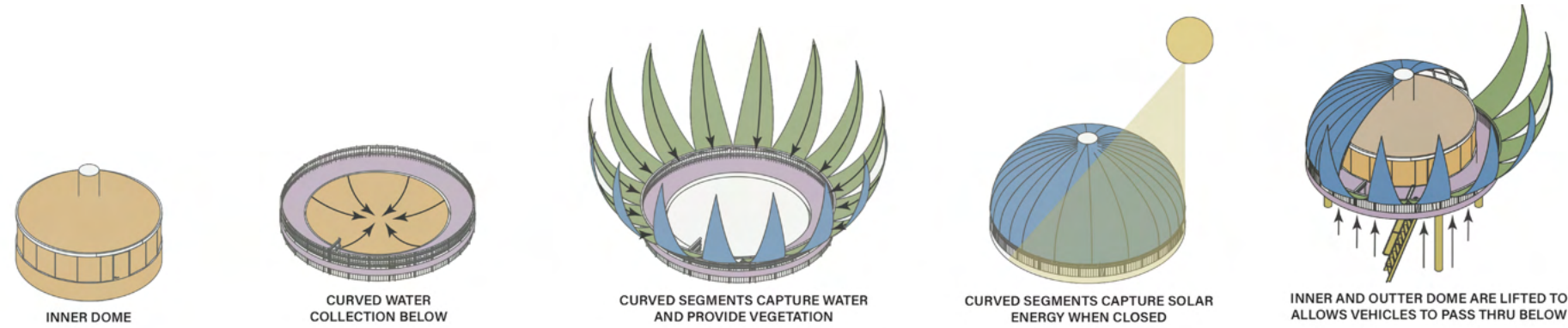
Location: New York, New York, USA.
Raymond Ho Architect, PLLC

For MircoHome 2020 INTERNATIONAL ARCHITECTURE COMPETITION by Bee Breeders we designed compacted dwelling pods for a working class couple. The pod consist of the basic living necessities such as a full bathroom, a sleeding area, a kitchen and outdoor lounge space that would ideally look over the city. These pods are to be placed anywhere within the tight knit landscape of New York City. The home has rainwater collection, solar panels, and vegetation cultivation.

The architect, Raymond Ho and I thought of the concept on how we can create a dwelling that could be placed anywhere and would not disturb the cityscape.



HUDSON YARDS WAS A LOCATION WE CHOSE DUE TO MUTLTIPLE CAR LOTS THAT HAD LARGE OPEN LAND THAT WOULD NOT BRING DISTURBANCE TO THE HECTIC CITY STREETS.

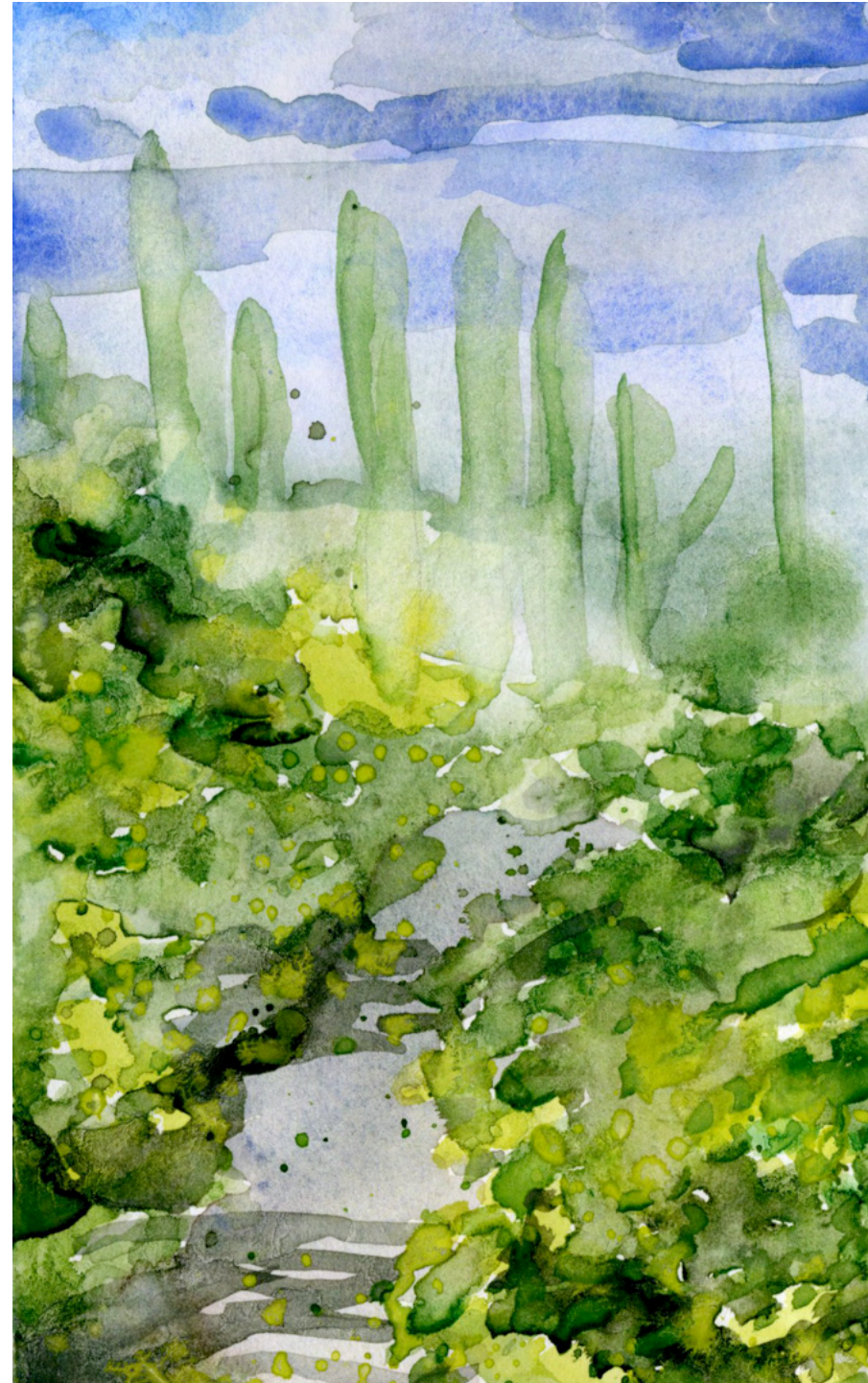


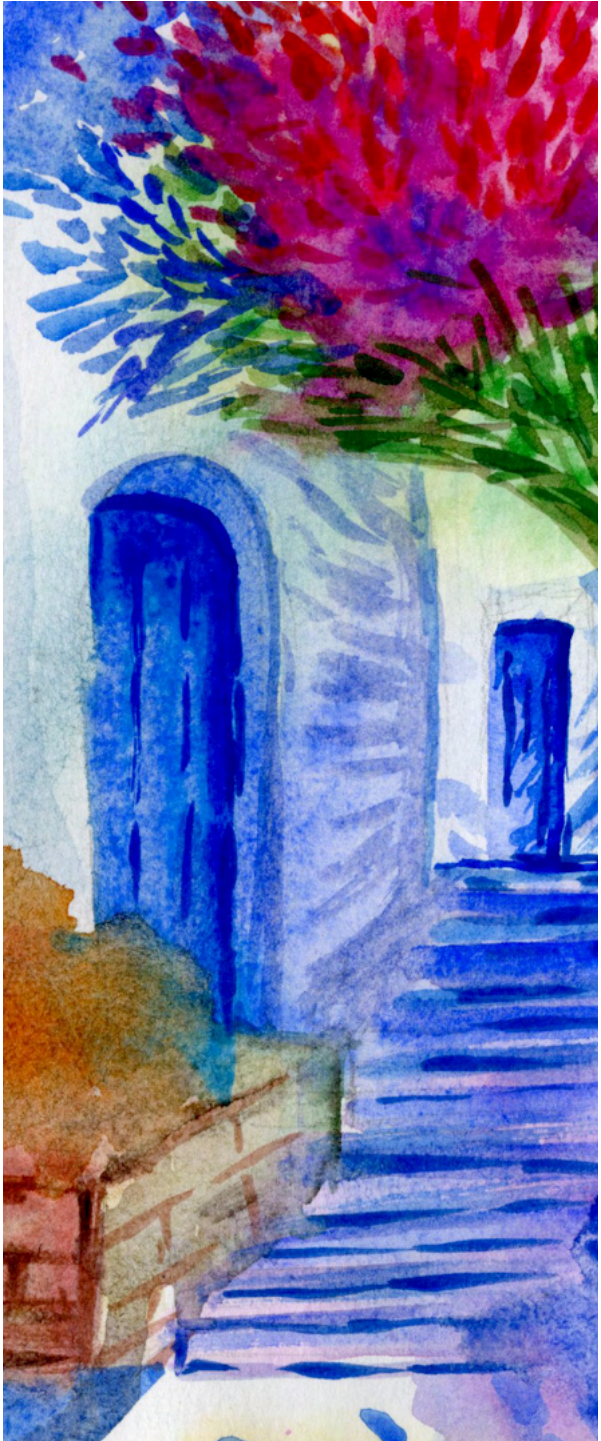


Watercoloring, 2020

Location: New York, New York, USA.

In my personal passtime I like to get away from work by water coloring, specifically landscape or floral arrangements. The feeling of painting with watercolor is truly therapeutic. The paintings I have done are inspired by locations I would want to visit in the future or have visited. All the paintings were done with Koi Water Color Travel Kit.





MARTHA DELVALLE ZAMBRANO
ARCHITECTURAL DESIGNER
BROOKLYN, NEW YORK 11249
MARDELZAM@GMAIL.COM
+1 646 469 7047