

PORTFOLIO

HAOTIAN SUN

Architecture, Art and Design at Virginia Tech
2018-2023
haotian233@vt.edu

CONTENTS

00
**Mixed -Used School for Handdi-
capped Students**

Integrative Design in A Slot Space between Two
Buildings in Washington D.C., USA

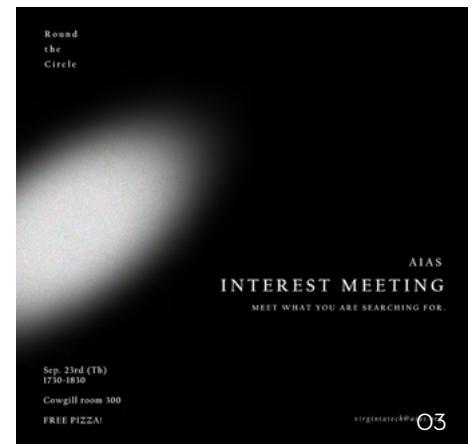
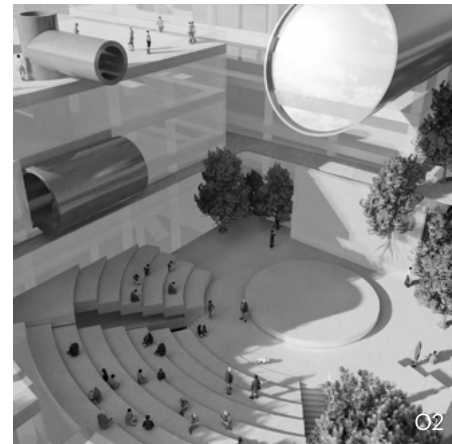
01
Kinetic Machine

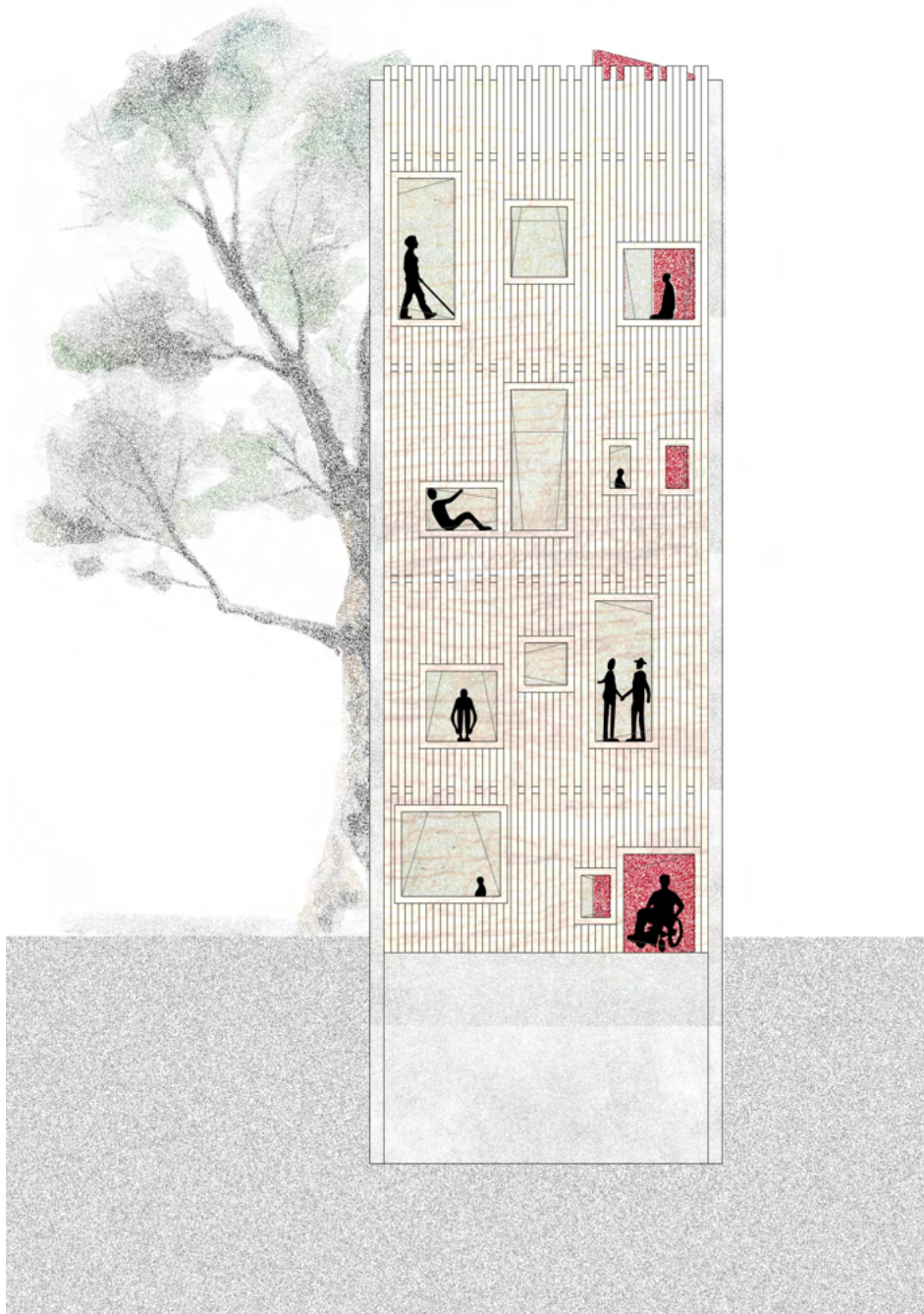
Dynamic Temporary Installation Design about Time

02
Bukchon Open Community
Masterplan & Details in Seoul, Korea

03
Poster Designs

Poster Works as Design Chair in AIAS





OO

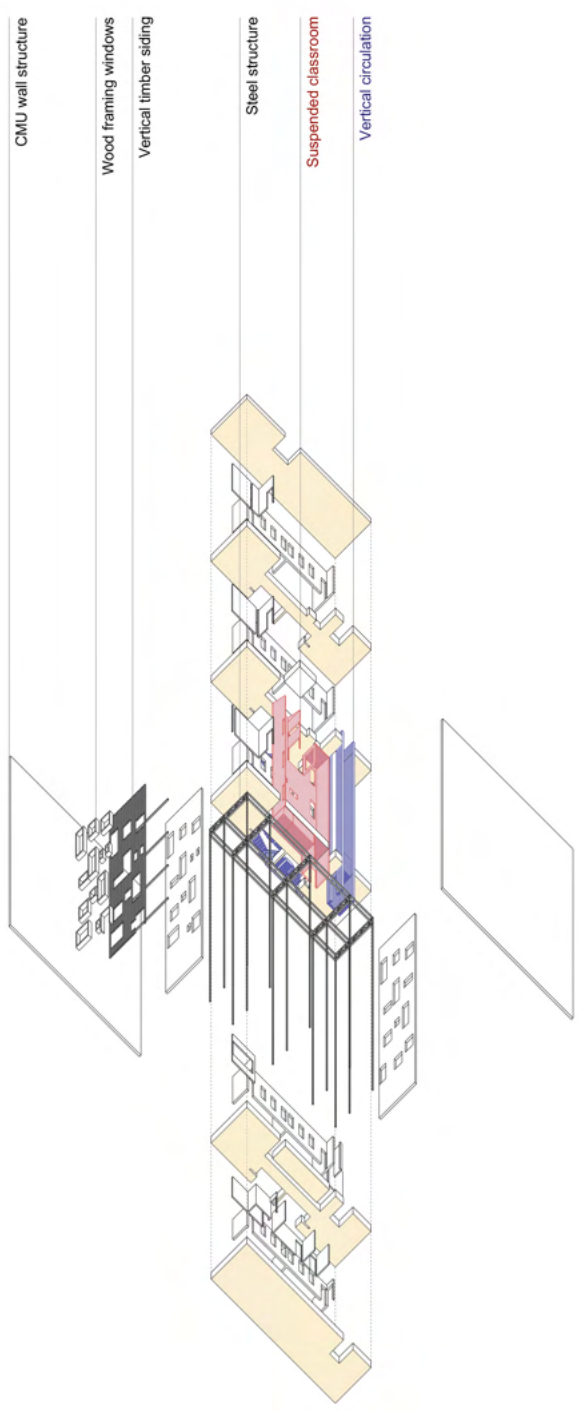
Mixed -Used School for Handdicapped Students

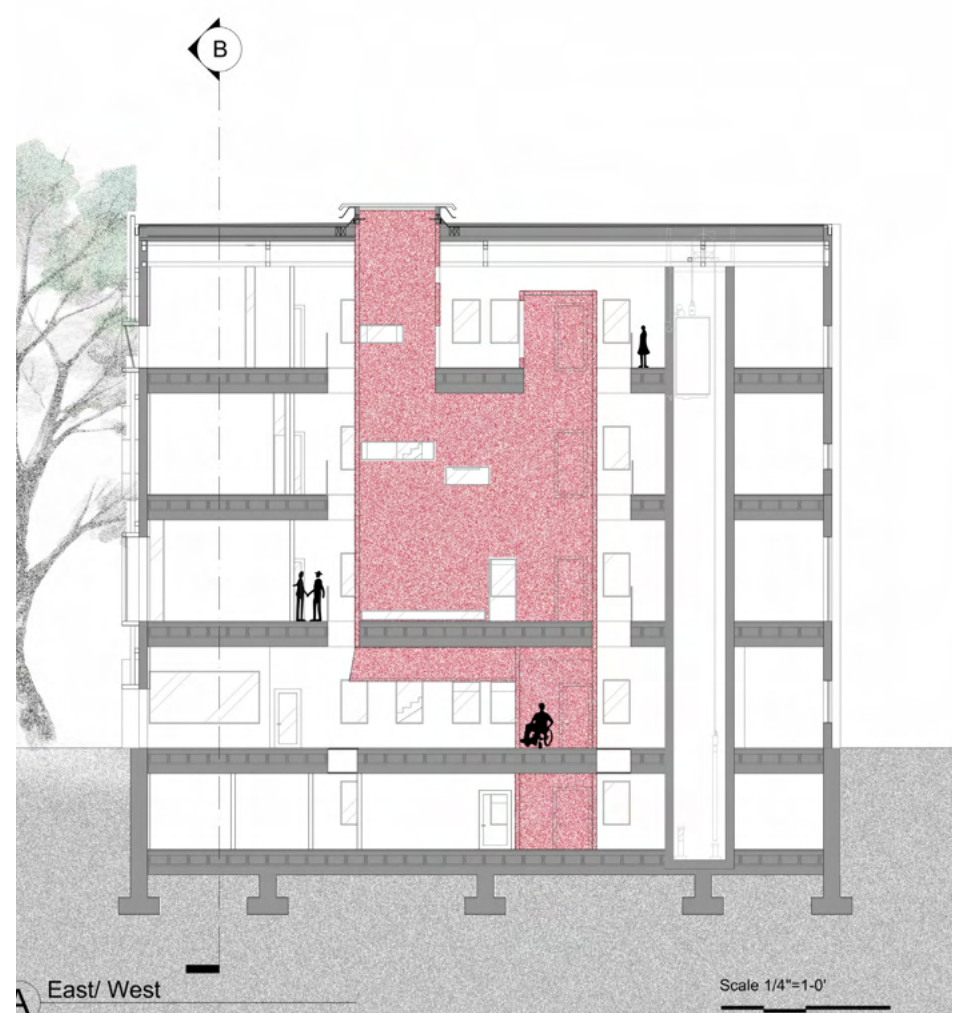
2022 Fall | One Semester

Dynamic Temporary Installation design about Time

The project about a design of mixed-use shipping store (ground floor, front) and school (the rest of the building) that will accommodate the needs of special needs and severely physically handicapped students during the day, host afterschool care for able-bodied neighborhood children from 3pm to 6pm, and provide ESL instruction after 6pm. The design must take into account the safety, accessibility, and comfort of the students and staff, as well as the convenience and efficiency of the shipping store.

Exploded Structure Diagram

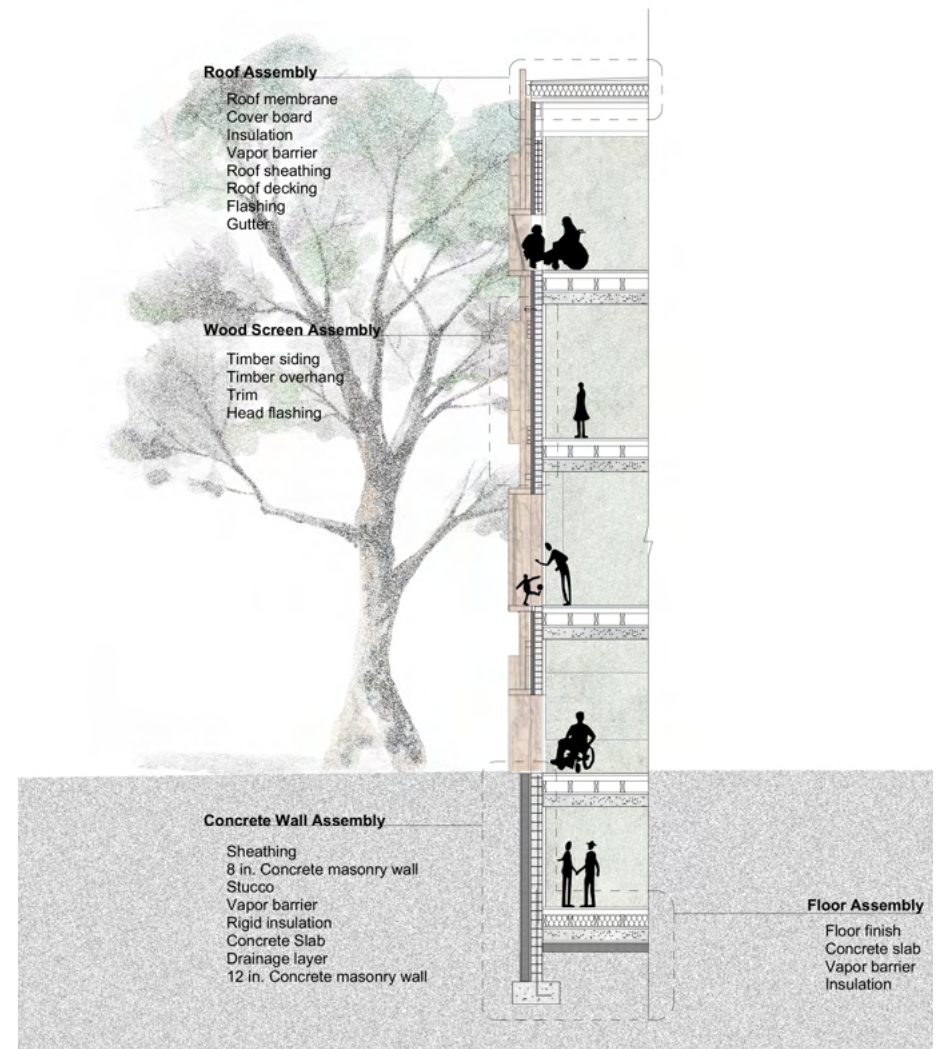




Construction Type II-A is chosen for the project. Masonry bearing walls structures with steel columns for walls and steel bar joists floor and roof structures. A steel truss system is added to the roof for supporting the suspension structure in the middle. The "C" shaped atrium separates the building into two parts, it also creates a straight hallway to easily reach each spaces at the two ends.

The windows open to different directions show people using the space different experience of observe. They serve as a lens to connect inside and outside of the building.

The red distinguishes the middle massing from the rest of the space.



The windows are set into different sizes to adapt people in different sizes and forms. There are large spaces on the platform for people to interact with them. Some of the windows can be open but some of them cannot, for example, the large window for the shipping store can be opened, and people can simply drop off packages from the window and they don't have to come into the building.

They are part of the building envelope, but the wood screen is outside of the building envelope. The pattern is designed to ignore the layers of floors but see the façade as one.



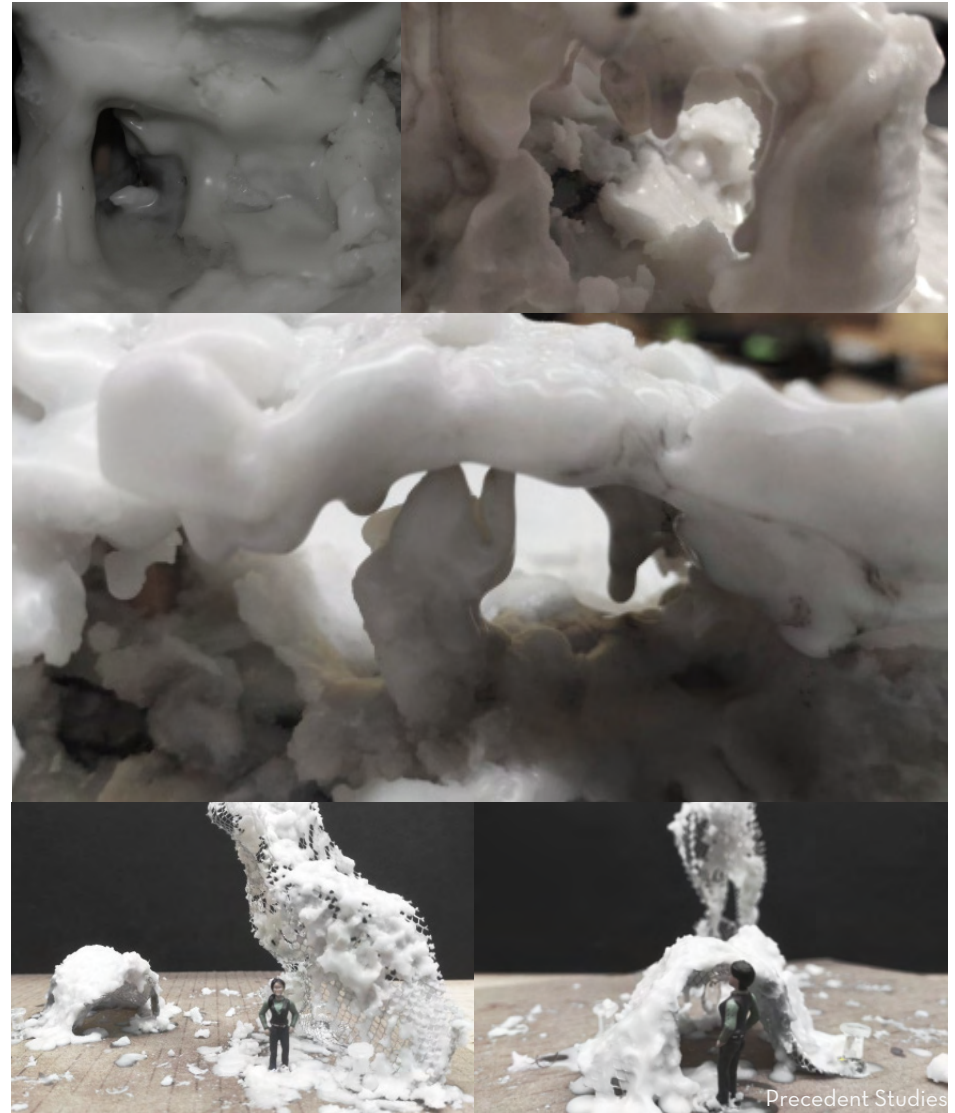
01

Kinetic Machine

2020 Fall | 2 weeks

Dynamic Temporary Installation design about Time

The project is designed to show dynamic flow in solid installation. Considering using specific materials to represent dynamic, melted wax crawling on wire gauze are chosen here. Time, as a dynamic element, expresses its dynamic flow by the solidification state of the melted wax. The exposed wire skeleton intensifies the theme of going time. Mirrors placed at different locations reflect people's face to act as a reminder to recall the losing time and the memories going behind.



Process

To represent time flow accurately, different kinds of wax were experimented in the design process. There were soy wax, coconut oil wax, and aromatherapy candles used. For final model, only aromatherapy candles left due to their smoothness, stickness and natural off-white colors.



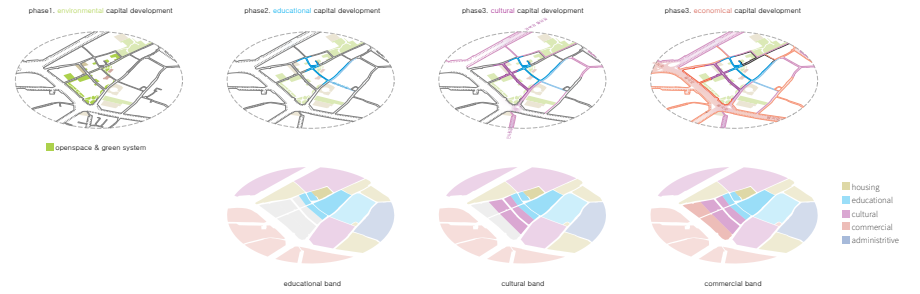
O2

Bukchon Open Community

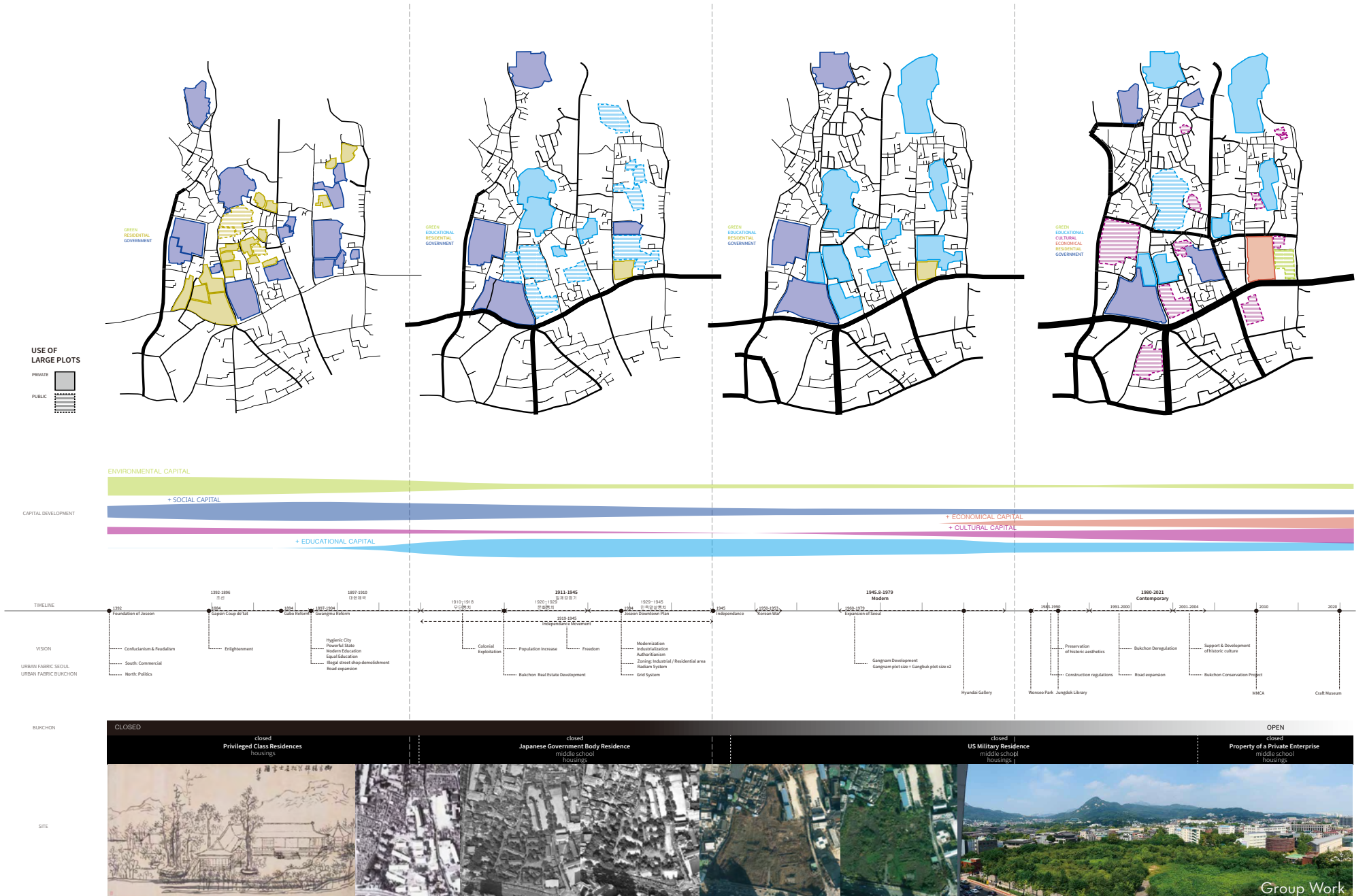
2021 Fall | One Semester

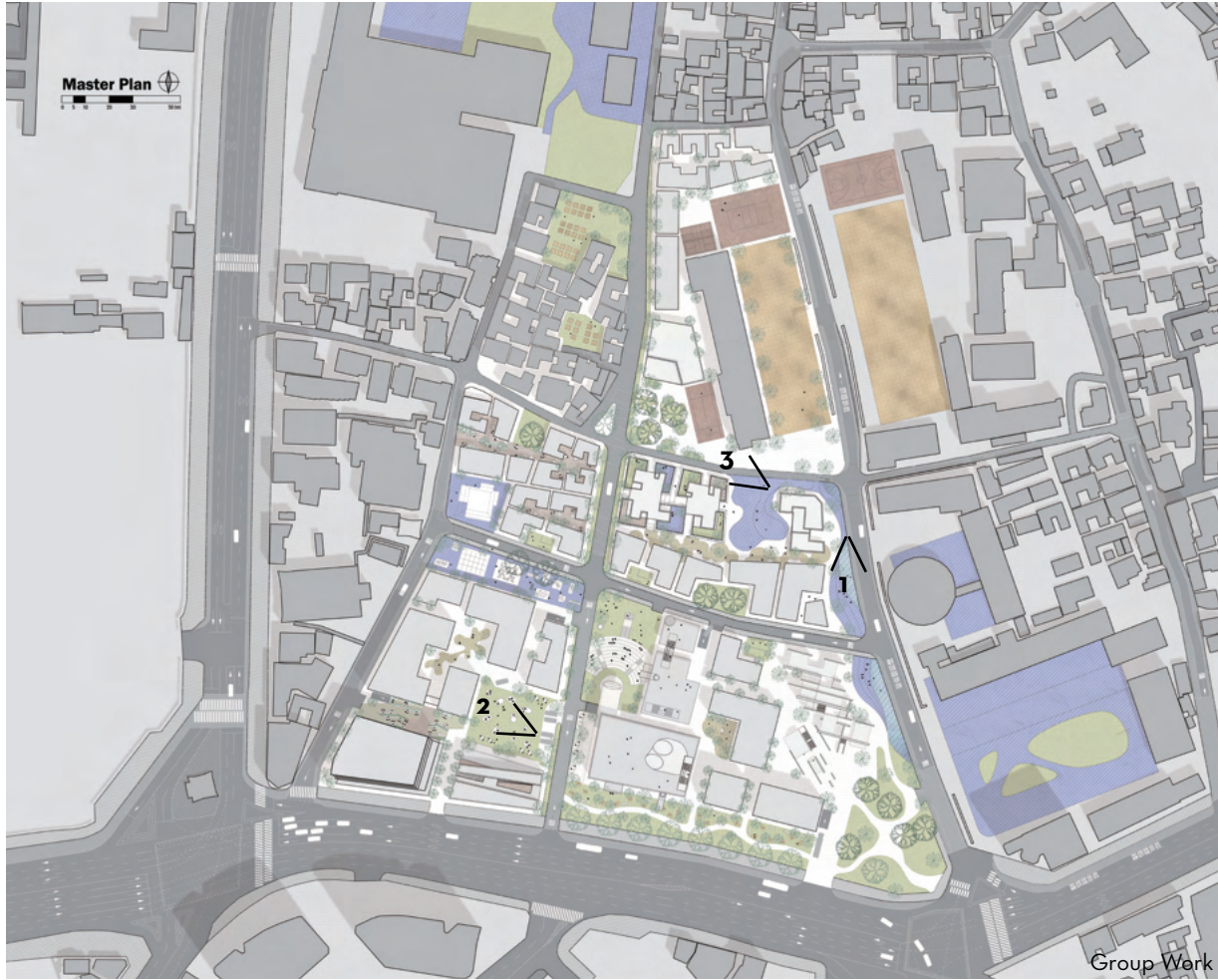
Masterplan & Details in Seoul, Korea

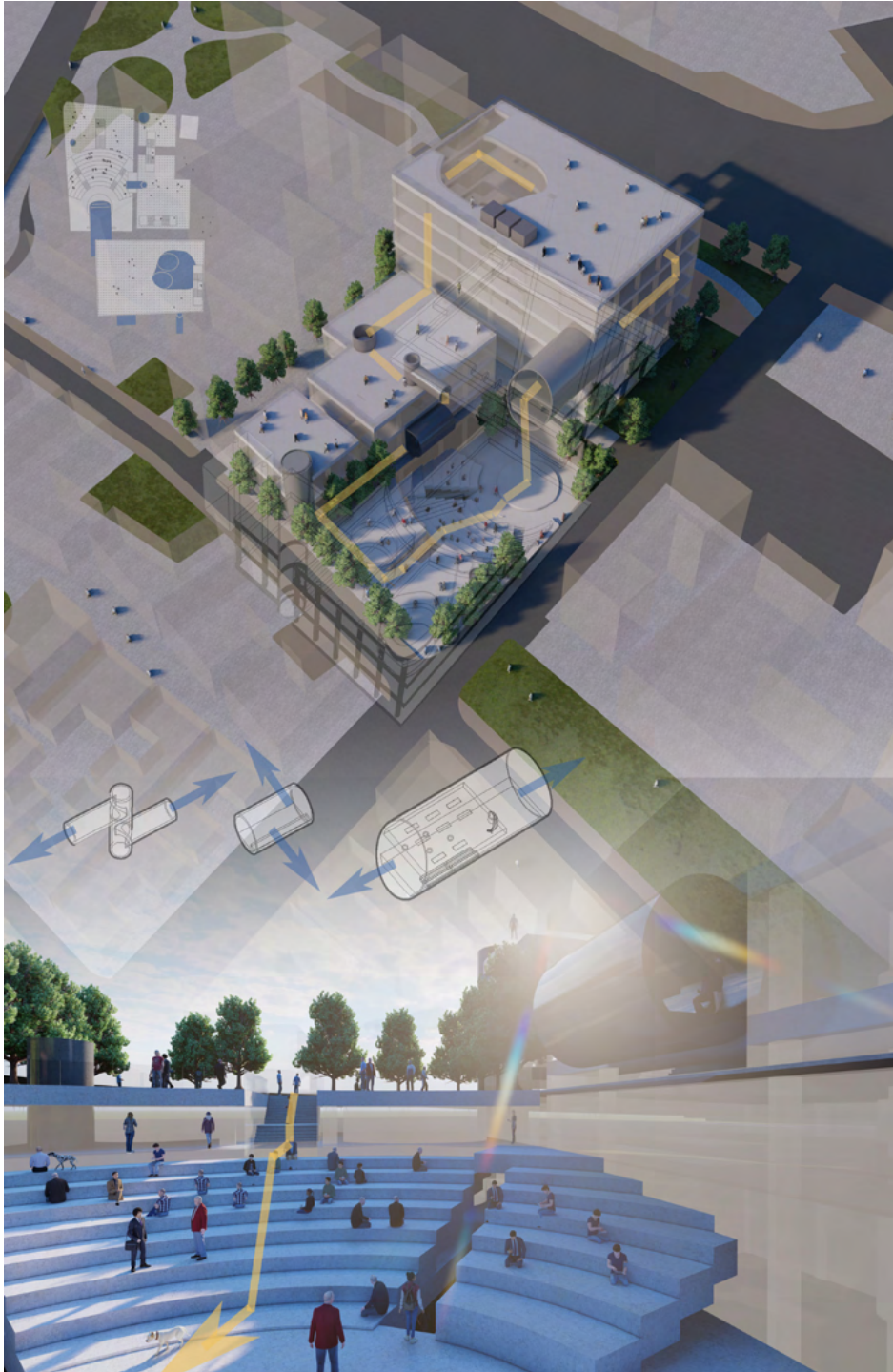
A four people group project about an open research of a piece of land at Bukchon, Seoul, that was isolated for almost 100 years. To adapt the historical background and contemporary development, the site is designed as an open space based free community.



Historical Development- Capitals







Elements of The Loop

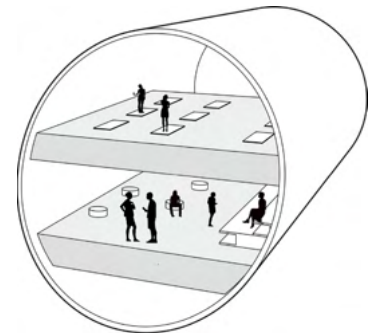
The three main forms elements of the loop is for observation and interaction in the complex and to the rest of the site.



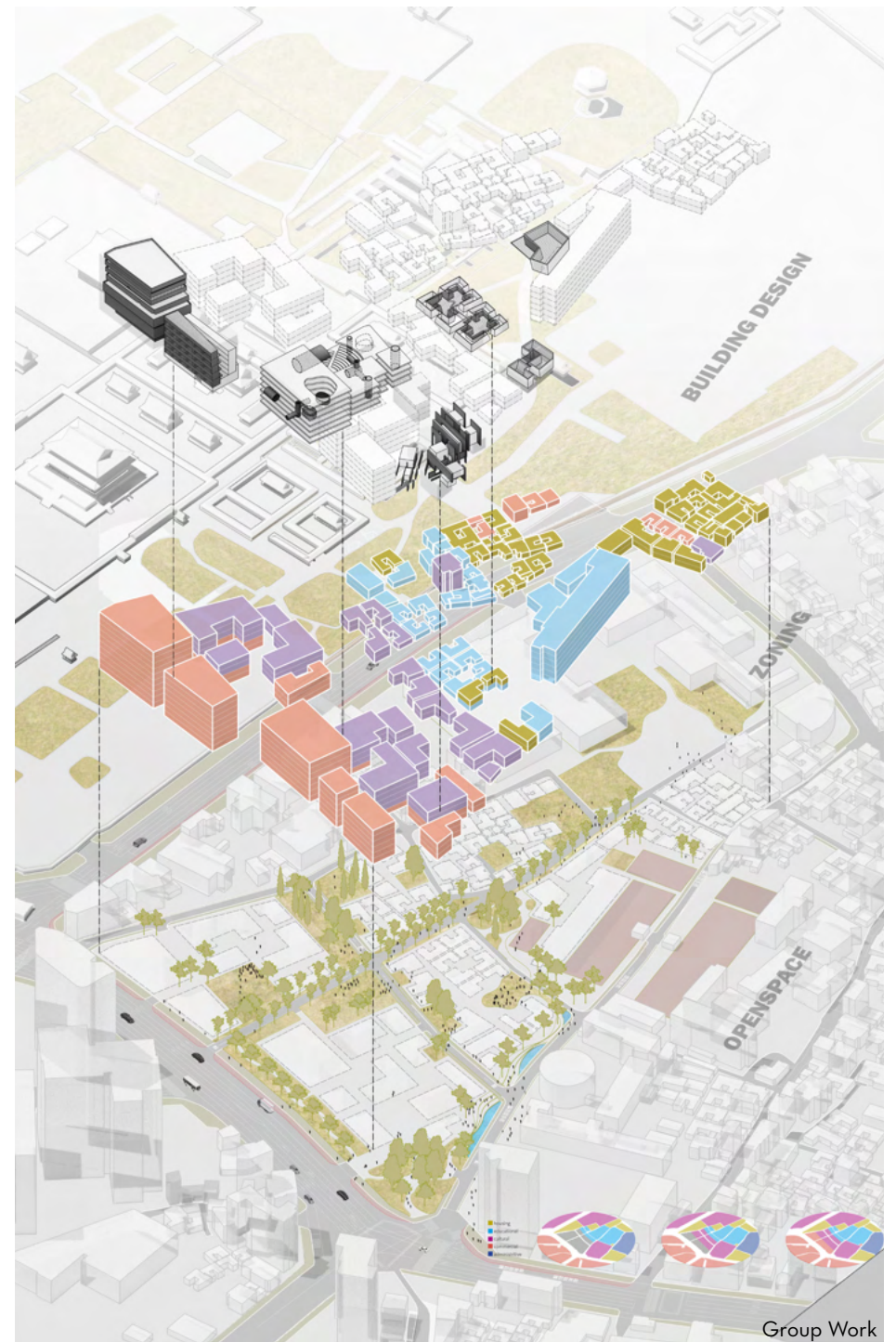
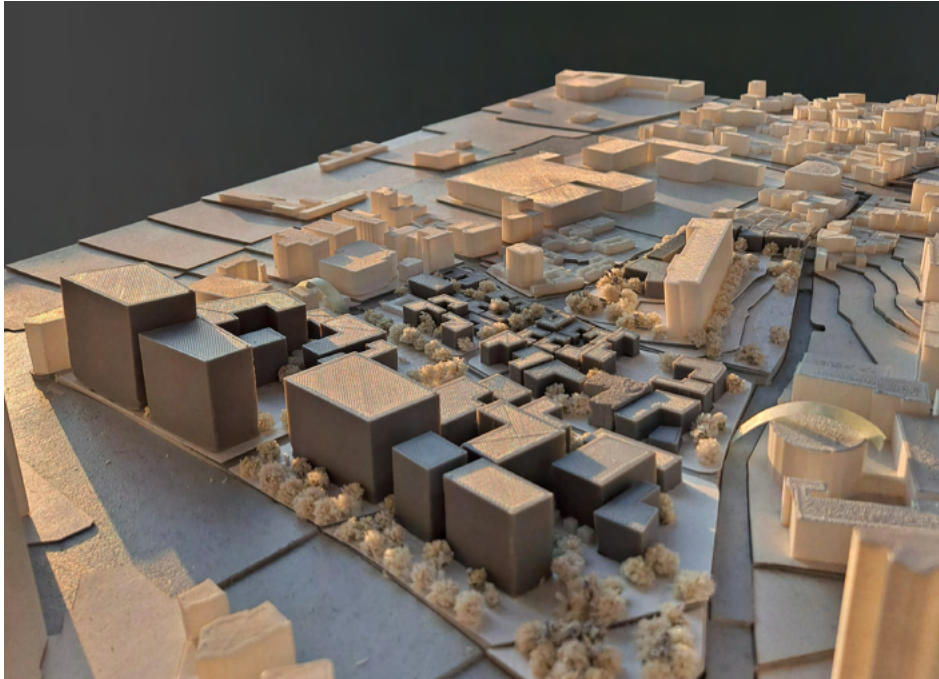
Periscope

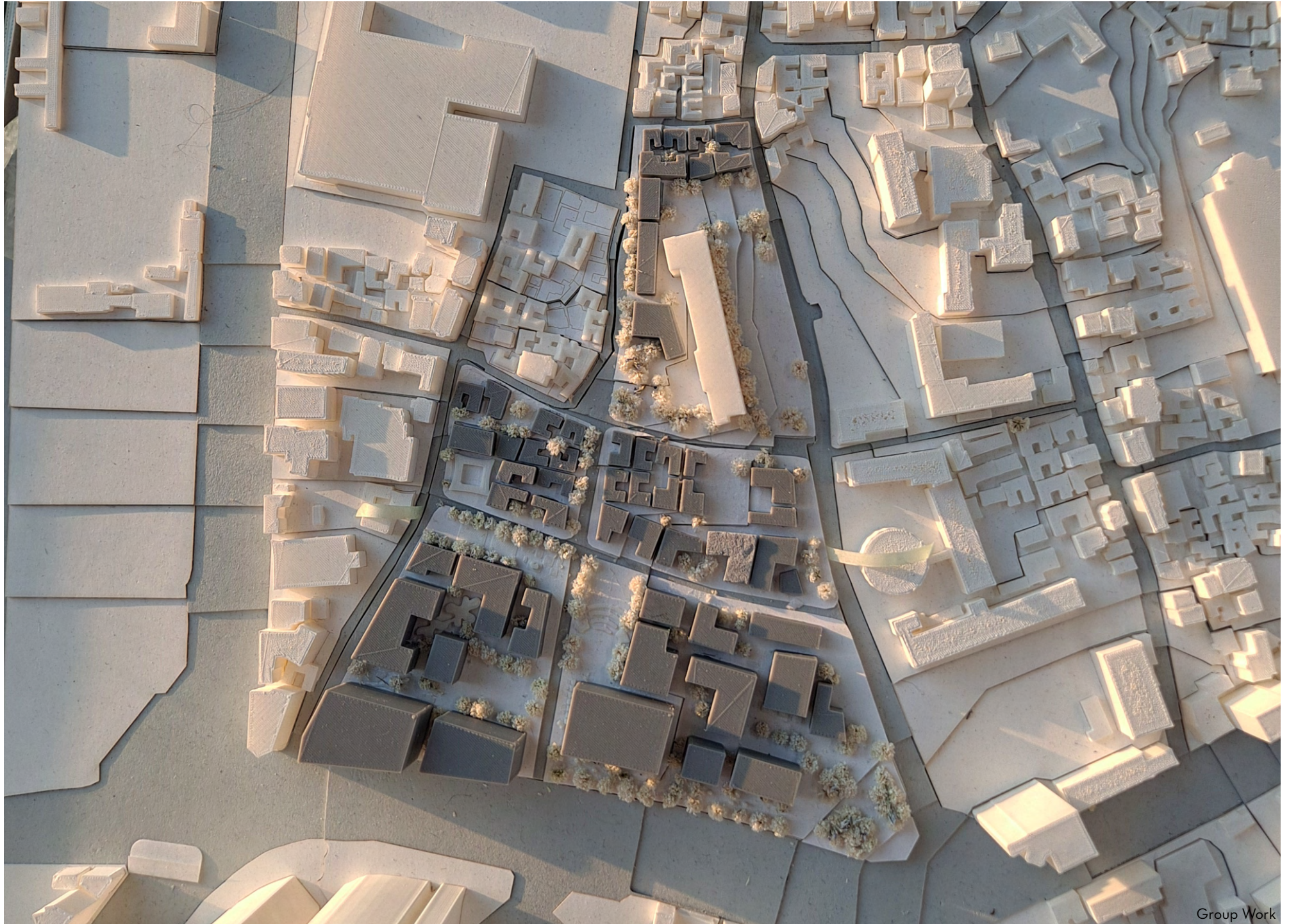


Meeting room



Library





Round
the
Circle

AIAS
INTEREST MEETING
MEET WHAT YOU ARE SEARCHING FOR.

Sep. 23rd (Th)
1730-1830

Cowgill room 300

FREE PIZZA!

virginatech@aias.org

03

Graphic Design

2021 Summer - 2022 Summer

Graphic designs as design lead in AIAS- VT

Fill Out the Circle

AIAS
INTEREST MEETING
MEET WHAT YOU ARE SEARCHING FOR

RSVP: May 12th (Thu) 5:00 PM
RSVP: Congill@aias.org
RSVP: (800) 812-2222



AIAS VT
The American Institute of Architecture Students (AIAS) is an independent, non-professional, student-run organization that is more than just a club.

President
Kenneth Kramer
virginatech@aias.org

The AIAS is committed to providing opportunities to its members in leadership, professional, educational, and social means. Through the AIAS you will gain networking opportunities, create bonds with other students both at your school and across the nation, as well as having the chance to serve in a leadership position. Without a wide range of events held frequently through the semester, for members to attend freely.

VIRGINIA TECH CHAPTER TOUR

an online tour with UNC Charlotte
an event in honor of UNC Charlotte

UNC CHARLOTTE

SMW
UF P/
CKOR THD
BAW
KV TY XR DFG
NIBKS
FOQUM
LIOLS
EH JHG
ONPO
RSDPA

NOVEMBER. 11 7pm

AUG 2021

AIAS AIAS AIAS

LEADERSHIP
PROFESSIONAL
EDUCATIONAL
SOCIAL

JOIN US

APRIL 26TH-28TH
BURCHARD SQUARE

Paint Like Pollock

What are your favorite things to draw?

APR 26th - 28th

What are your favorite things to draw?

Bob Ross Night

FEBRUARY 10TH
6:00 PM
CONGILL 400