



## ANSEL SIDIADINOTO

aj2387@columbia.edu

### EDUCATION

#### Columbia University Graduate School of Architecture Planning and Preservation

Masters of Architecture

Master of Science in Real Estate Development

#### University of Illinois at Urbana Champaign

Bachelors of Science in Architectural Studies

### PROFESSIONAL

#### Perkins and Will - Chicago, United States

Architecture Intern | Scholarship Recipient

- Selected as the 2018 Perkins and Will award's only recipient to receive a \$1300 scholarship and internship opportunity
- Collaborated with firm leaders, engineering consultants, as well as Chicago Department of Transportation Officials in refining the design of the high profile Damen Green Line metro station proposal
- Revised schematic design architectural drawings with Revit based on feedback and site visits
- Produced step-by-step diagrammatic drawings for glass panel replacement of the metro station
- Rendered Lumion visualizations, painted atmospheric lighting, and photo-shopped entourage of Damen Green Line metro station's official renderings announced by Mayor of Chicago Rahm Emanuel
- Learned how politics could easily alter design

August 2019 - May 2022

### EXPERIENCES

#### Velldos School of Architecture (ETSAW) Universitat Politècnica de Catalunya -Barcelona, Spain

Year-long Study Abroad

- Selected as the 30 from 120 students in the 2019's architecture class to participate in the Illinois School of Architecture's renowned Barcelona studio/design workshop
- Developed observational and analytical sketching skills through drawing in various cultural and urban contexts throughout Spain (Barcelona, Seville, Granada, Bilbao, Aviles, Cordoba) as well as through Europe (Paris, Amsterdam, Rotterdam, Prague, Milan, Syracuse, Copenhagen, Berlin, Hamburg, and Helsinki)
- Approached studio design projects with sensitivity to historical and cultural contexts

August 2018 - May 2019

#### Zhejiang University - Hangzhou, China

Research Assistant | Raymond A. Pogozet Scholarship Recipient

- Received a \$2400 Scholarship to participate in a Chinese cultural Immersion program and joint research with Zhejiang University's Agricultural Engineering department
- Arranged and organized laboratory equipment according to the day's research tasks
- Delivered, retrieved, and help maintained equipment from the fermentation, genetic sampling, and laser scanning labs
- Learned user interface requirements that governed the design of a 'Visual Book' laboratory program

Summer 2017

#### Bridges to Prosperity University of Illinois Chapter - Champaign, Illinois, United States

Fundraising Leader

- Fund raised \$800 for a Summer 2017 pedestrian bridge aid project in Panama through a Bubble Tea sale
- Helped local communities gain easier access to water, life supplies, and education
- Drew detailed construction documents and visualization renderings in promoting the bridge project to potential engineering sponsors as well as the general public
- Learned the structural and service loads required to design an effective bridge

Fall 2016 - Spring 2017

#### Institute of Classical Architecture and Arts - New York, United States

Winter Intensive Participant | Scholarship Recipient

- Received a \$1500 Scholarship to study the principles and history of classical architecture, as well as their application in the 21st century design

January 2016

### STUDIO DESIGN AWARDS

#### Edward C. Earl Prize

- Prizes are awarded for excellence in undergraduate studies. Nominations recognizes studio project as top 16 of the whole class, while Honorable Mentions recognizes studio project as Top 4

Spring 2018 Earl Prize Nominee  
Fall 2017 Earl Prize Honorable Mention  
Spring 2017 Earl Prize Honorable Mention

Greetings!

I hope things are going alright in Copenhagen, in the midst of this very weird period.

The first 3XN design I've ever seen was the Olympic house in Lausanne, Switzerland. Naturally, the spiral central stairs reminded me of Frank Lloyd Wright's Guggenheim Museum, me being a graduate architecture student living in New York. But underneath, I feel that both of the buildings represent very different values and eras of architecture. While the Guggenheim represent the era of glorifying the singular architect with his formalistic ideas (often disregarding costs and materials altogether), The Olympic house represents today's era of design as a product of collaboration, sustainable approaches, and sensitivity to historical contexts. A design that is applauded for its nature-friendliness and its symbol for international brotherhood through the Olympics.

Though more than half of my studies include design approaches and methods of Frank Lloyd Wright's era (studio being mostly individual projects and 'massing' studies), I want to be an architect of this era. This is the reason why I want to intern at 3XN this Spring 2021. I want 3XN to be a part of my professional growth for the values it stands for.

So far in my 23 years of age, I have done only one professional internship in Perkins and Will Chicago during Summer 2018. I know it is not a whole lot of experience compared to other internship applicants, but where I'm lacking I try to compensate learning other skills and experiences which adds to my agility as a designer.

I led a fundraising team in Bridges to Prosperity, working together with civil engineers on raising money and making drawings for the construction of pedestrian bridges in needing communities. I studied abroad in Barcelona for a year, absorbing and learning the nuances of different cultures of Spain and Europe, obtaining perspective far different from my background as an Indonesian. And in school, I experimented with different fabrication techniques such as silicone molding, and explored modern interactive visualizations such Sketchfab.com – an online 3D model viewing platform

I hope through my portfolio and experiences, I can add value to the 3XN team, as I am sure I will grow a lot if I intern here. Thank you for taking the time to read my cover letter. I'm looking forward on hearing back from 3XN.

Sincerely,

Ansel Sidiadinoto

Interactive 3D Model of my graduate studio cooking school: <https://skfb.ly/6RWst>

### REFERENCES

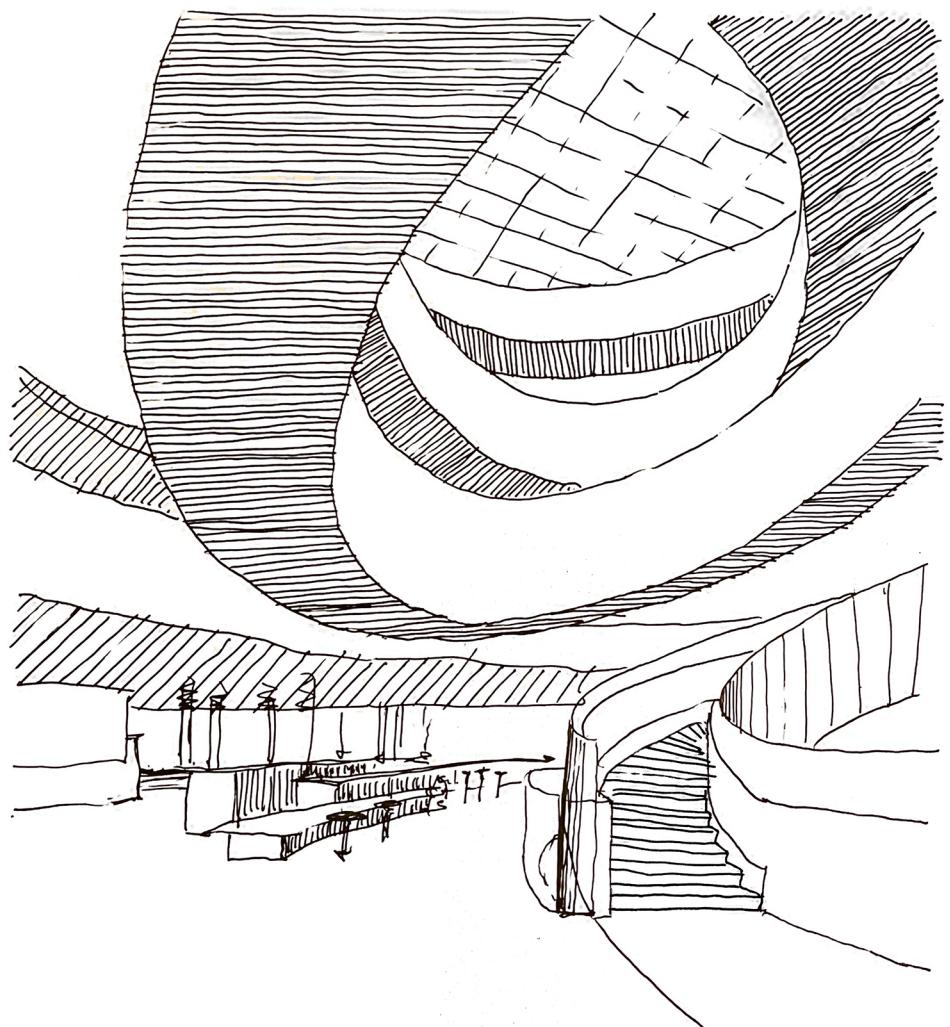
Andrew Sommerville, AIA, REI AP  
Associate, Perkins+Will Chicago  
[andrew.sommerville@perkinswill.com](mailto:andrew.sommerville@perkinswill.com)  
312.755.4618

### PORTFOLIO AND SKILLS

[http://www.anselsidiadinoto.com/docs/ansel\\_sidiadinoto\\_portfolio](http://www.anselsidiadinoto.com/docs/ansel_sidiadinoto_portfolio)  
RhinoVance | Adobe Photoshop | Adobe Illustrator | Adobe InDesign  
Lumion | Revit | Vray | Grasshopper | AutoCAD | Cinema 4D | Excel

# Ansel Sidiadinoto

## List of Works



Pen sketch of Olympic House, Lausanne, Switzerland  
Spring 2021

- |                      |   |
|----------------------|---|
| <b>Graduate Work</b> | Culinary promenade<br>Columbia University GSAPP                                       |
|                      | Expandable apartments<br>Incremental housing through additive modules                 |
|                      | Undulating transitional geometries<br>3D Concrete tiling through hands-on fabrication |
|                      | NYC Sensory Alleviation part 1<br>Sensory deprivation pods                            |
|                      | NYC Sensory Alleviation part 2<br>Underground tranquil landscaping                    |
| <b>Professional</b>  | Damen Green Line metro station<br>Perkins and Will Chicago                            |
| <b>Organization</b>  | Bojo Maiz Pedestrian bridge<br>Bridges to Prosperity                                  |



# Culinary Promenade

East Village Cooking School

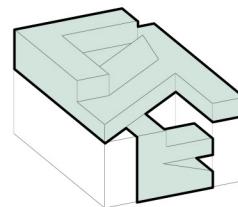
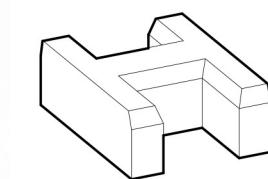
CORE II (A4002) | Columbia GSAPP | Spring 2020

Professor Christoph Kumpusch [ck2540@columbia.edu](mailto:ck2540@columbia.edu)

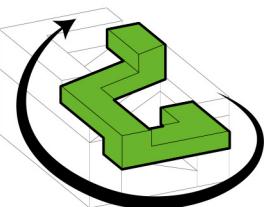
The rich processes involved in cooking can be used to teach foundational knowledge. Instead of cooking as a goal like in traditional culinary institutes, my school uses cooking as a means to education. Teaching physics by analyzing oven mechanics, biology by picking fruits in the greenhouse, and history by studying the cultural aspects of food. The architectural manifestation of this project is a design that is highly dynamic to reflect the unique approach to education, with spaces blending together, and intersections that create interstitial spaces needed for education.



Existing abandoned school at  
350 E 10th Street, East Village New York

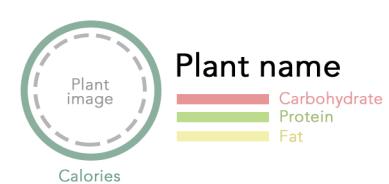


Repurposing existing  
structure and  
programming new ones

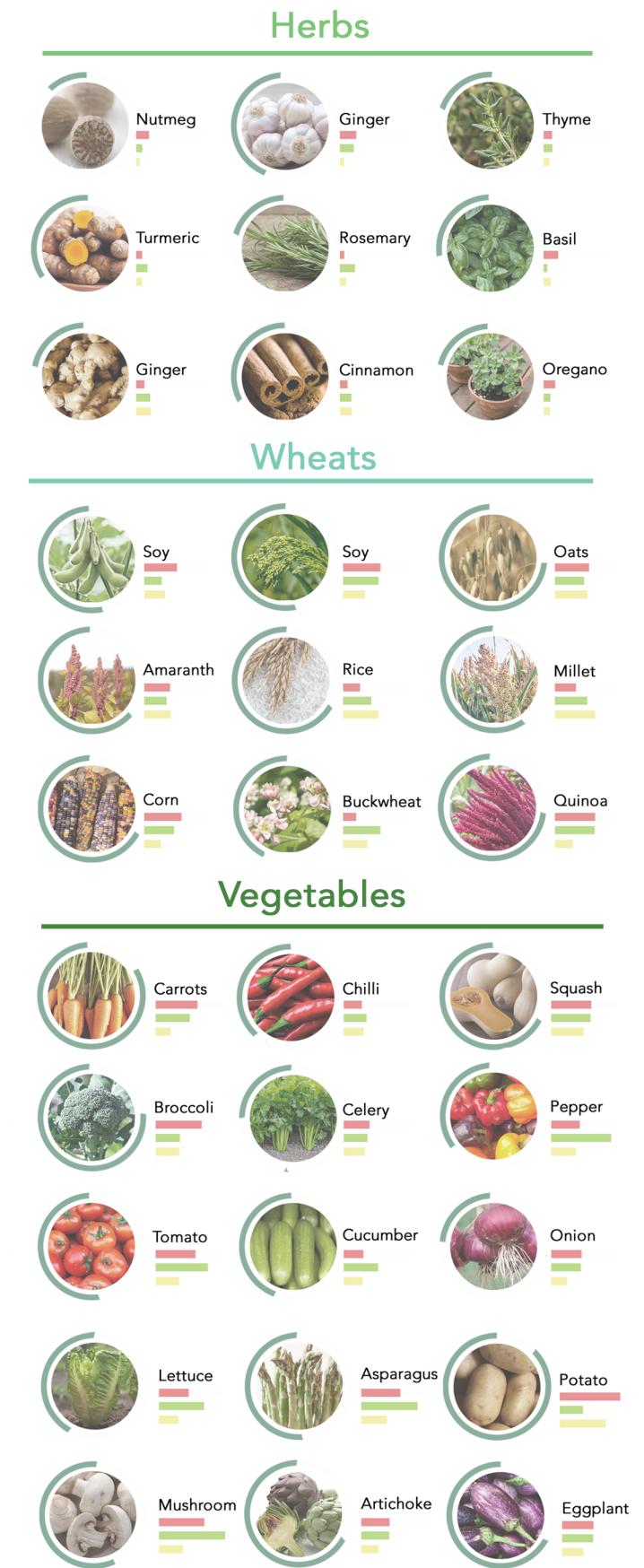
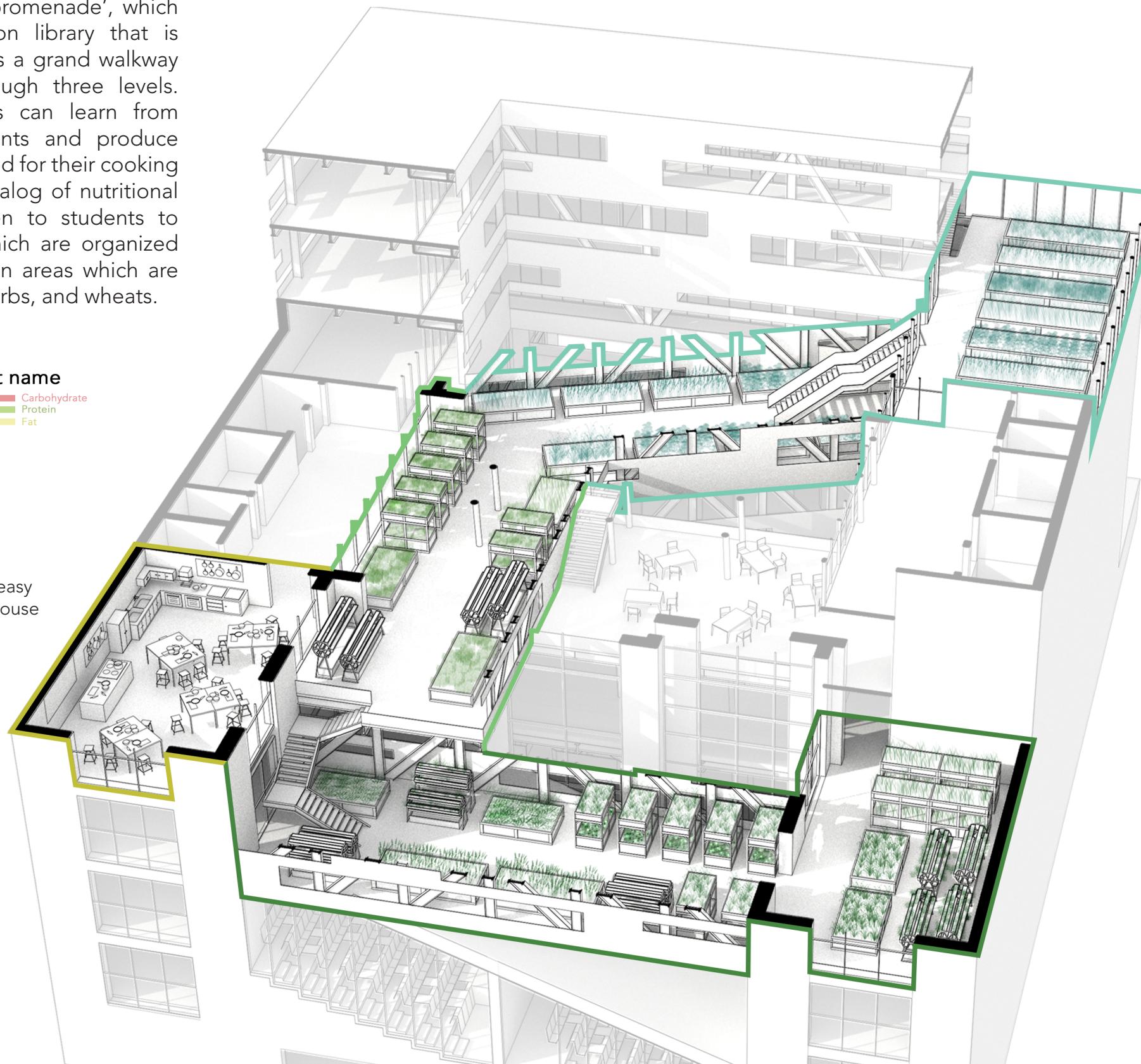


Greenhouse  
Promenade

The culinary school features a 'greenhouse promenade', which is a vegetation library that is represented as a grand walkway spanning through three levels. Here students can learn from fresh ingredients and produce that will be used for their cooking courses. A catalog of nutritional facts are given to students to the plants, which are organized into three main areas which are vegetables, herbs, and wheats.



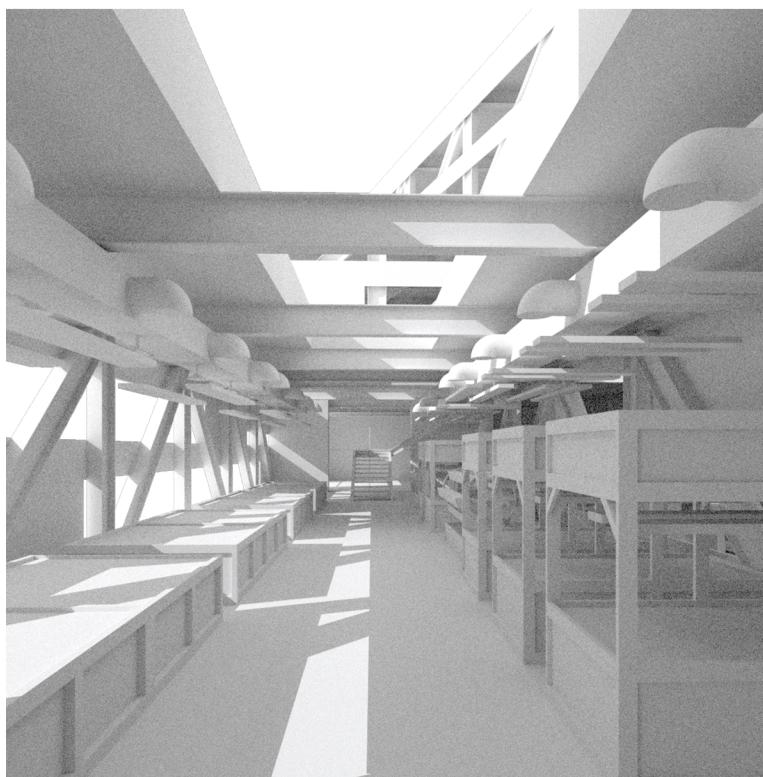
Classrooms with easy access to Greenhouse Promenade

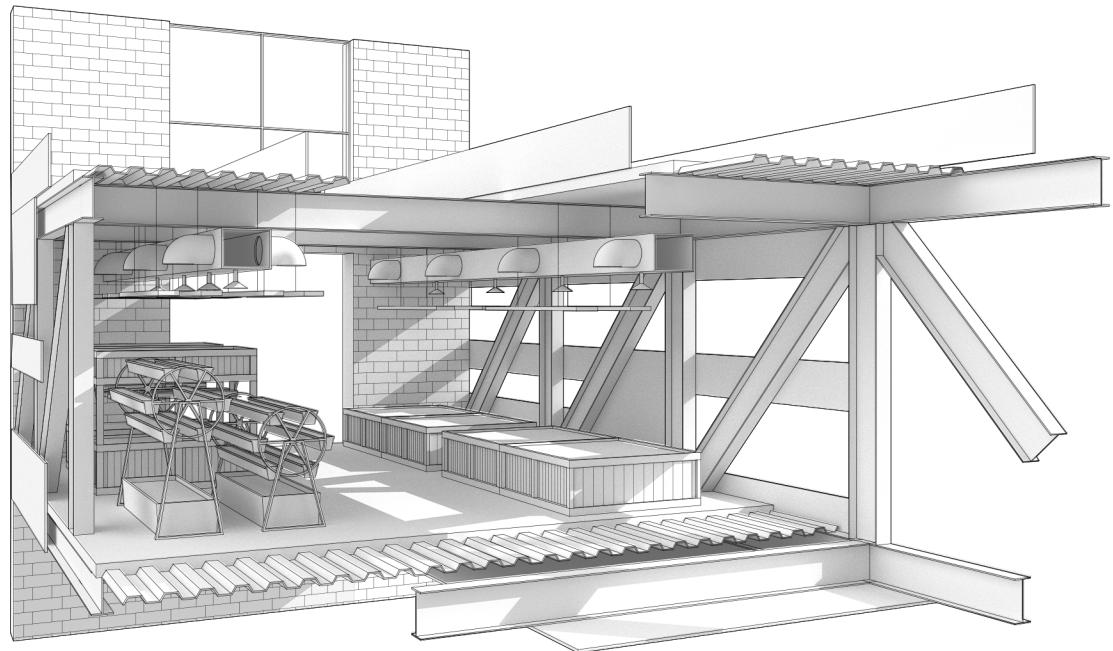


Classrooms can be rearranged in various ways depending on the goals of the courses and instructors. This is possible by using a movable working station equipped with cooking and study essentials. The flexible organization allows for more collaboration for learning, or more privacy during lectures and exams.

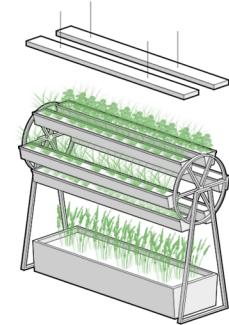


Greenhouse bridge

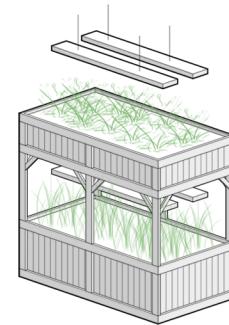




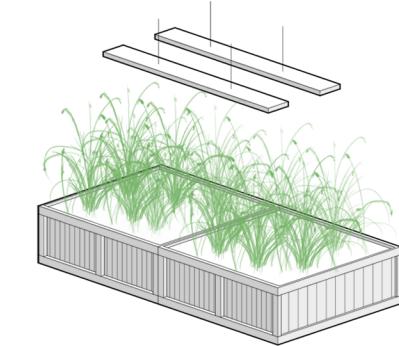
Structural anatomy of greenhouse bridge



Type I : Rotatable  
For small plants



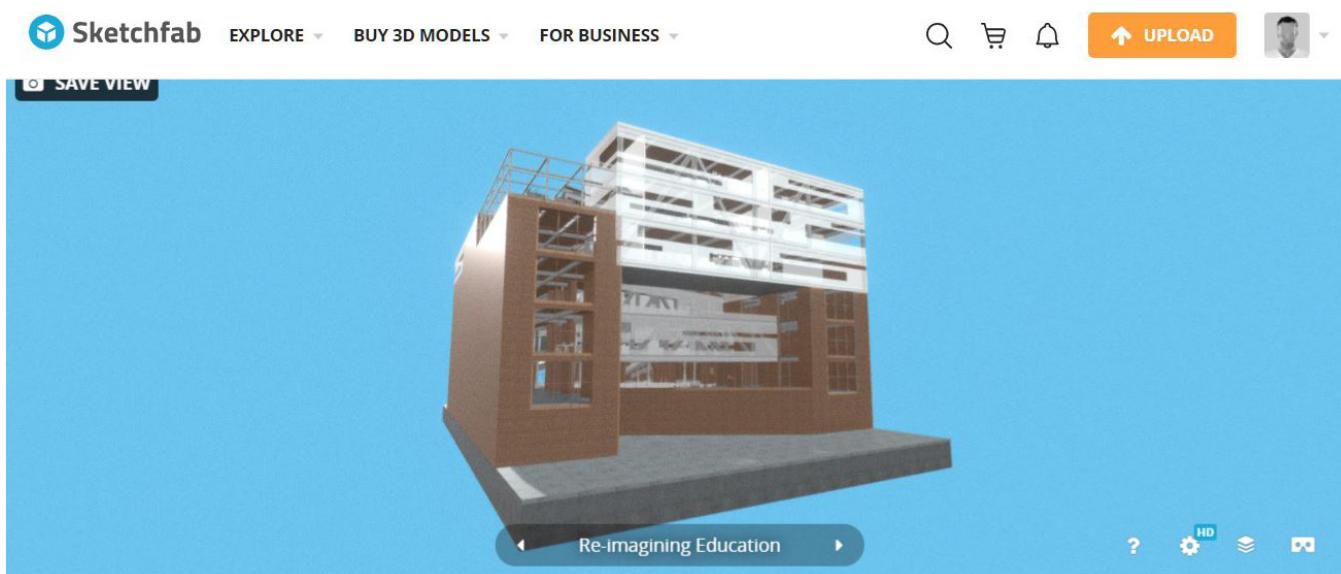
Type II : Double stacked  
For medium plants



Type III : Open height  
For large and tall plants

There are three types of vegetation placeholders. The first allows small plants and herbs to grow in a rotatable platform, allowing for ease of viewing and watering. The second is a two level stack suited for medium size plants requiring more space to grow. The third is large and open, allowing tall wheat plans such as paddy and corn to grow optimally. All of these placeholders are equipped with heating and ventilation systems enabling all-year growing conditions.





### Ansel Sidiadinoto GSAPP Cooking School

3D Model



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[EDIT PROPERTIES](#) [EDIT 3D SETTINGS](#)

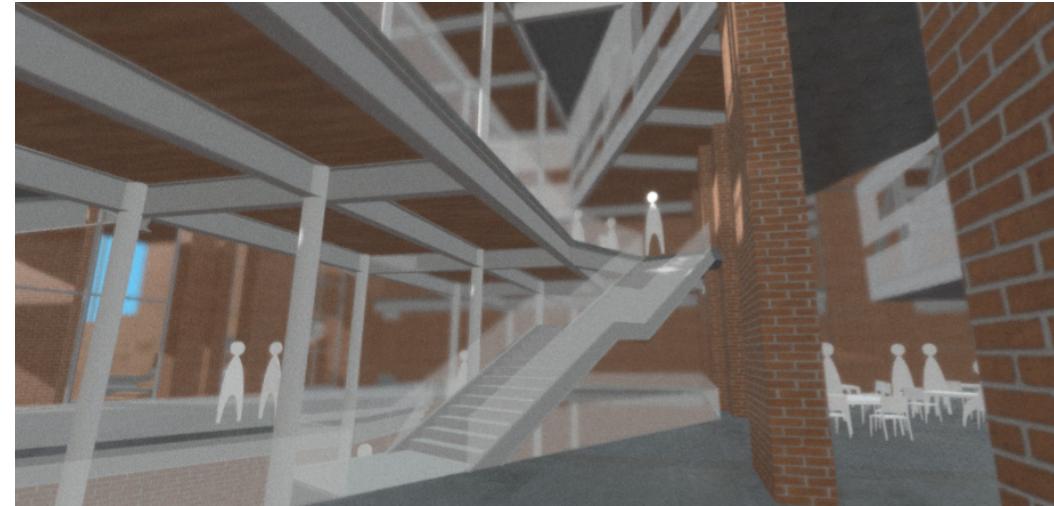
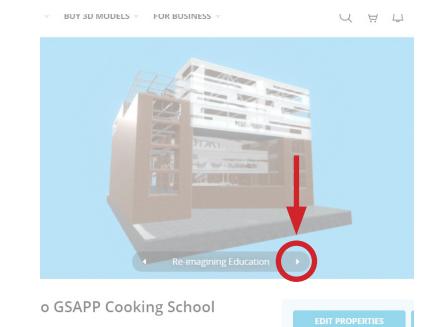
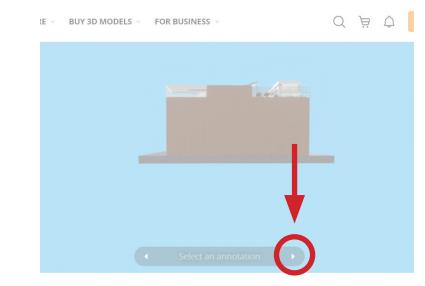
Online interactive 3D model

As a response to design representation during the era of Covid-19 pandemic, This Core II project explores modern ways of representation that goes beyond traditional 2D drawings. Through Sketchfab.com, viewers can have a more immersive experience with the design. Interactive representation adds a new level of depth to architectural design, as the design is no longer a passive image, but rather more dynamic and alive.

To explore this design, simply click this link

<https://skfb.ly/6RWst>

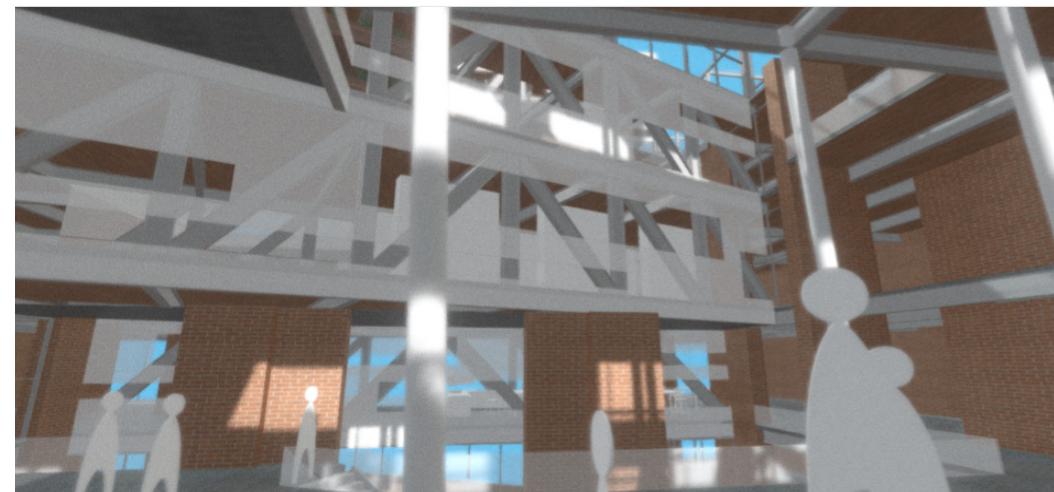
Then press the right **arrow** button to move through all of the prearranged views. Viewers can also independently pan and orbit to their desired viewpoints.



Stairway atrium



Greenhouse promenade



Upper level gathering space



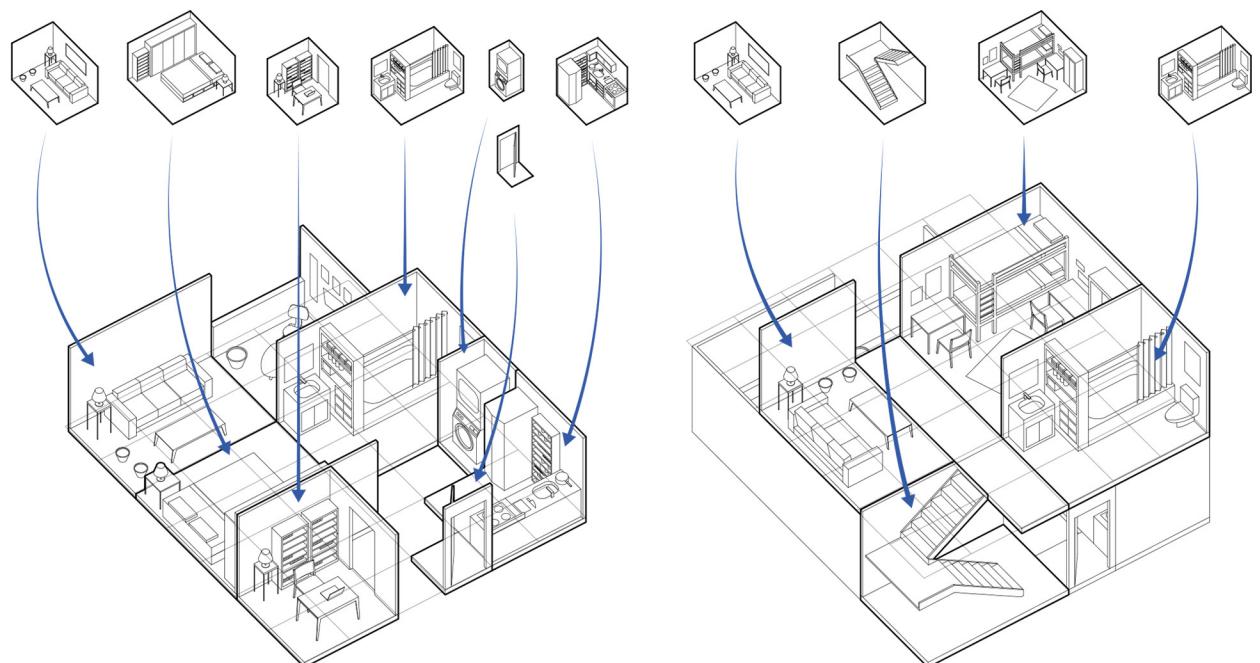
# Expandable Apartments

Incremental housing through additive modules

Modular Anatomy (A4870) | Columbia GSAPP | Spring 2020

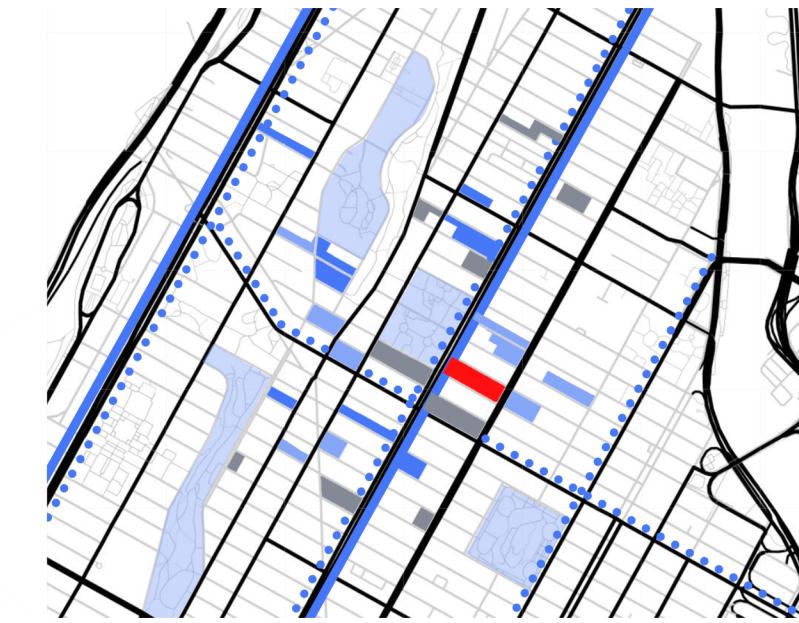
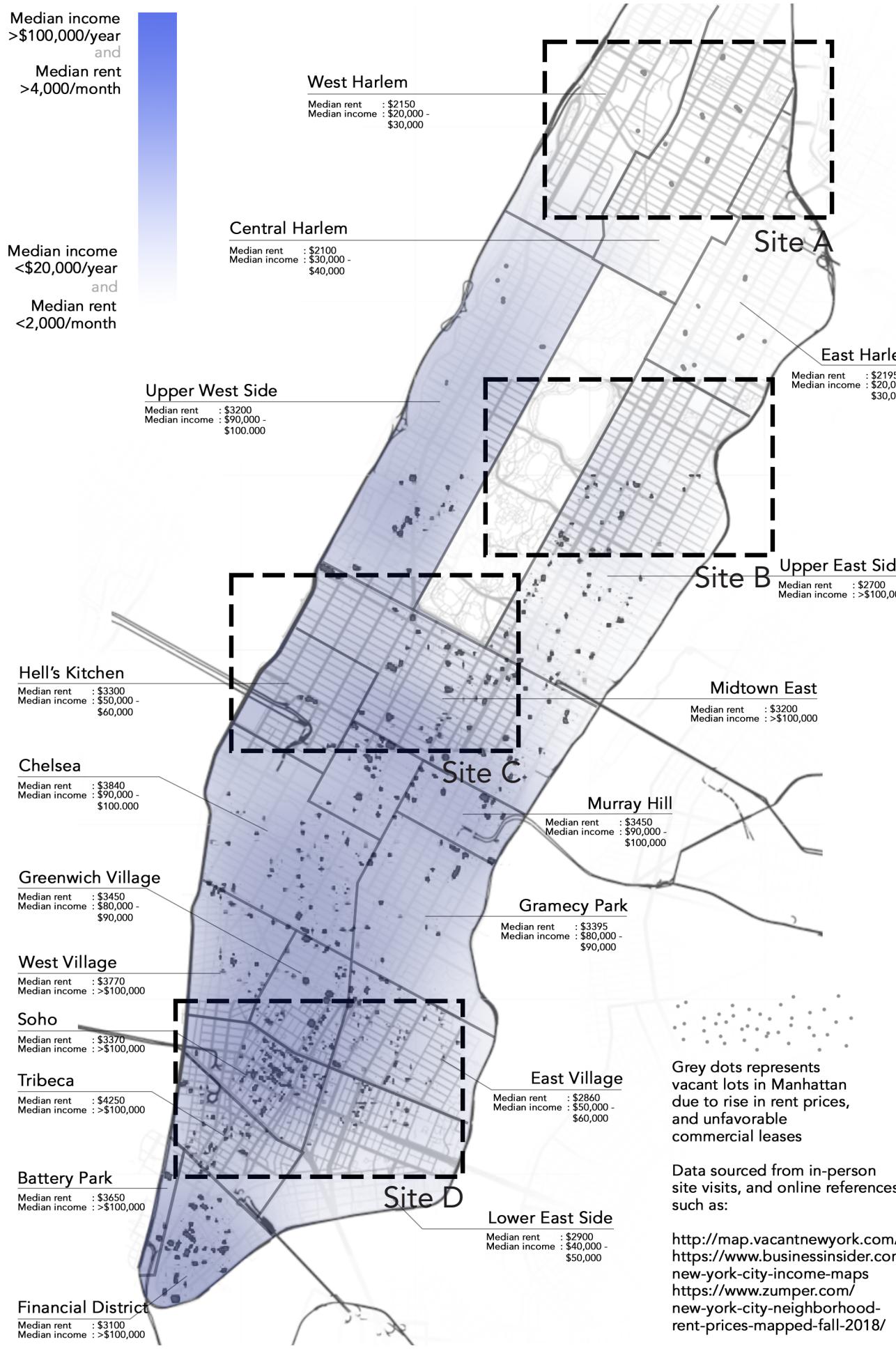
Professor Andreas Tjeldflaat [aat2183@columbia.edu](mailto:aat2183@columbia.edu)

Rising rent prices in New York city over the years have made it difficult for many people to continue living in Manhattan, let alone owning a condo. Ironically, there are large growing number empty lots as a direct result of people abandoning the city for more affordable housing. 'Expandable Apartments' tries to reevaluate those empty buildings by applying incremental housing conditions, adding flexibility for future New Yorkers that couldn't yet afford traditional housing prices.



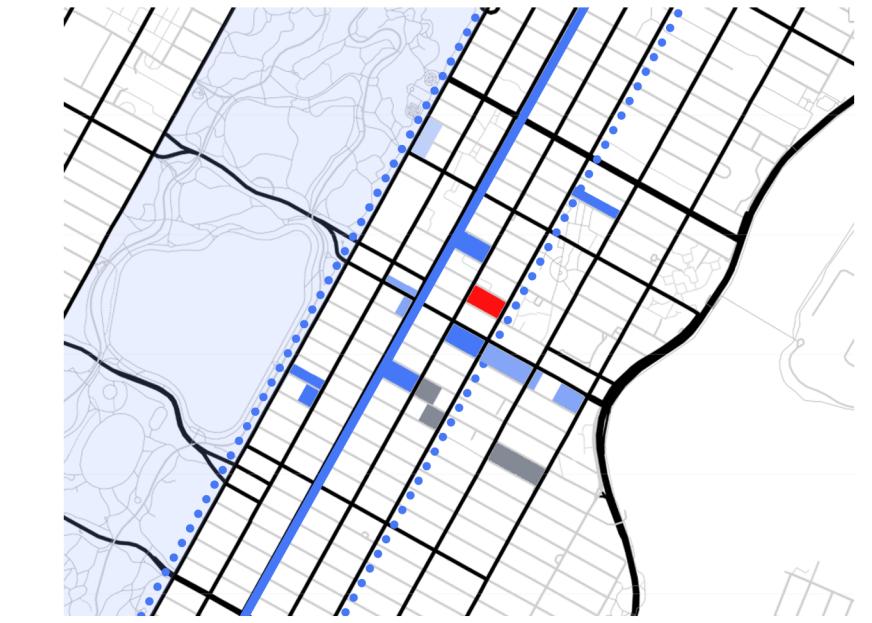
Initial layout

Extension layout



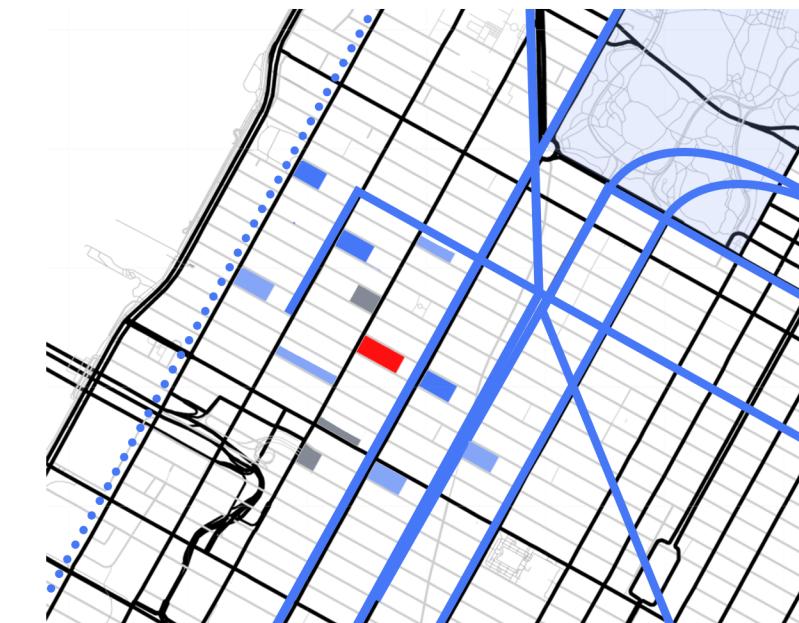
**Site A**

This site is located in Central Harlem with ease of access to the downtown metro lines, bike paths, as well as living amenities such as hospitals, daycares, schools, and parks. Living here would allow a more efficient lifestyle as living amenities in Harlem are less expensive.



**Site B**

This site is located in Upper East Side, and it is relatively quieter than most parts of Manhattan. The most important aspect of this site is the close proximity to Central park, which allows ease of work and life balance in the city.



**Site C**

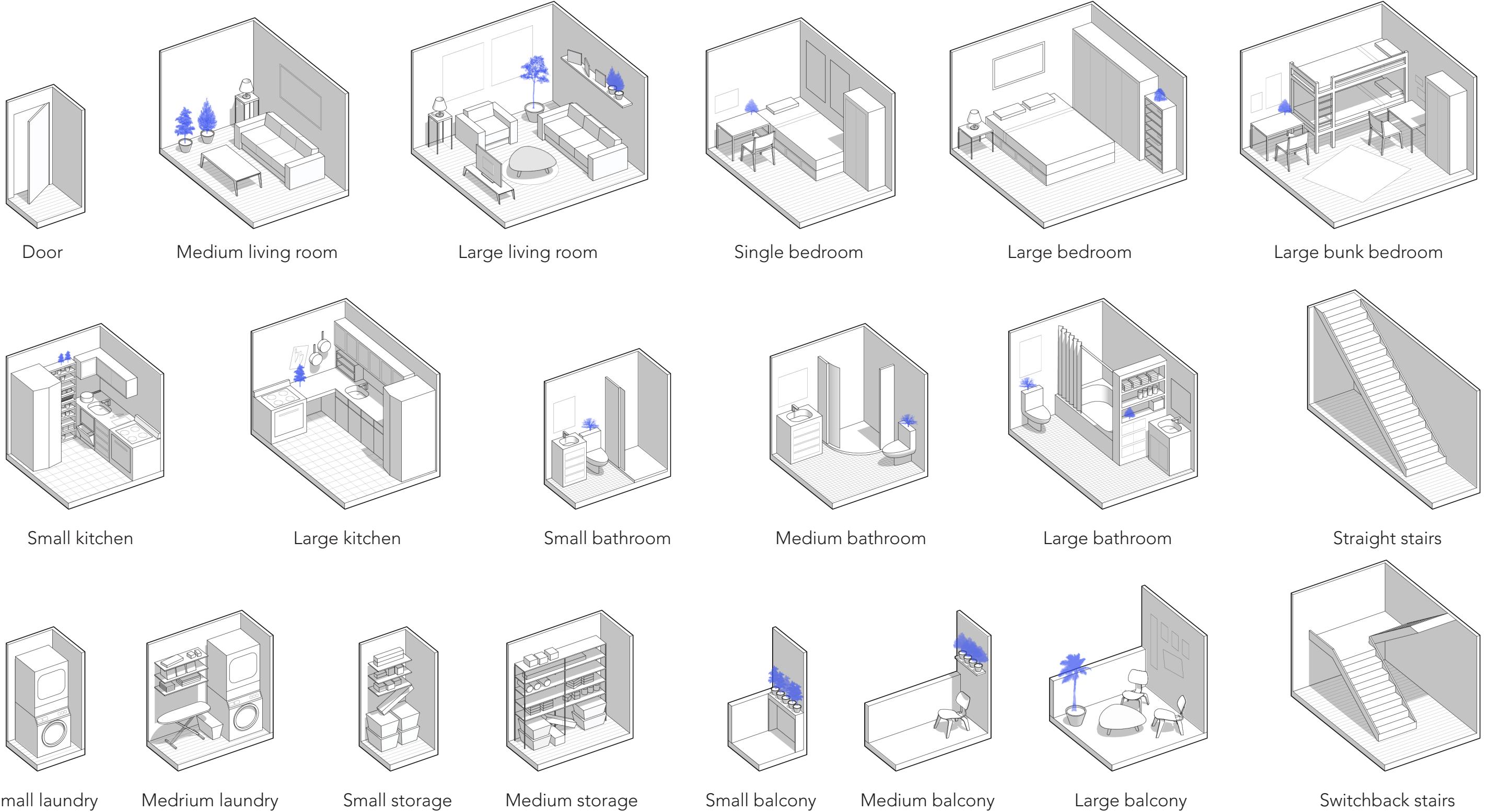
This site is located in Hell's Kitchen near to the entertainment center of Manhattan such as Broadway. Though this area is less suitable for raising families, it is desirable for aspiring artists or career oriented people looking to dive into the cultural heart of New York City.



**Site D**

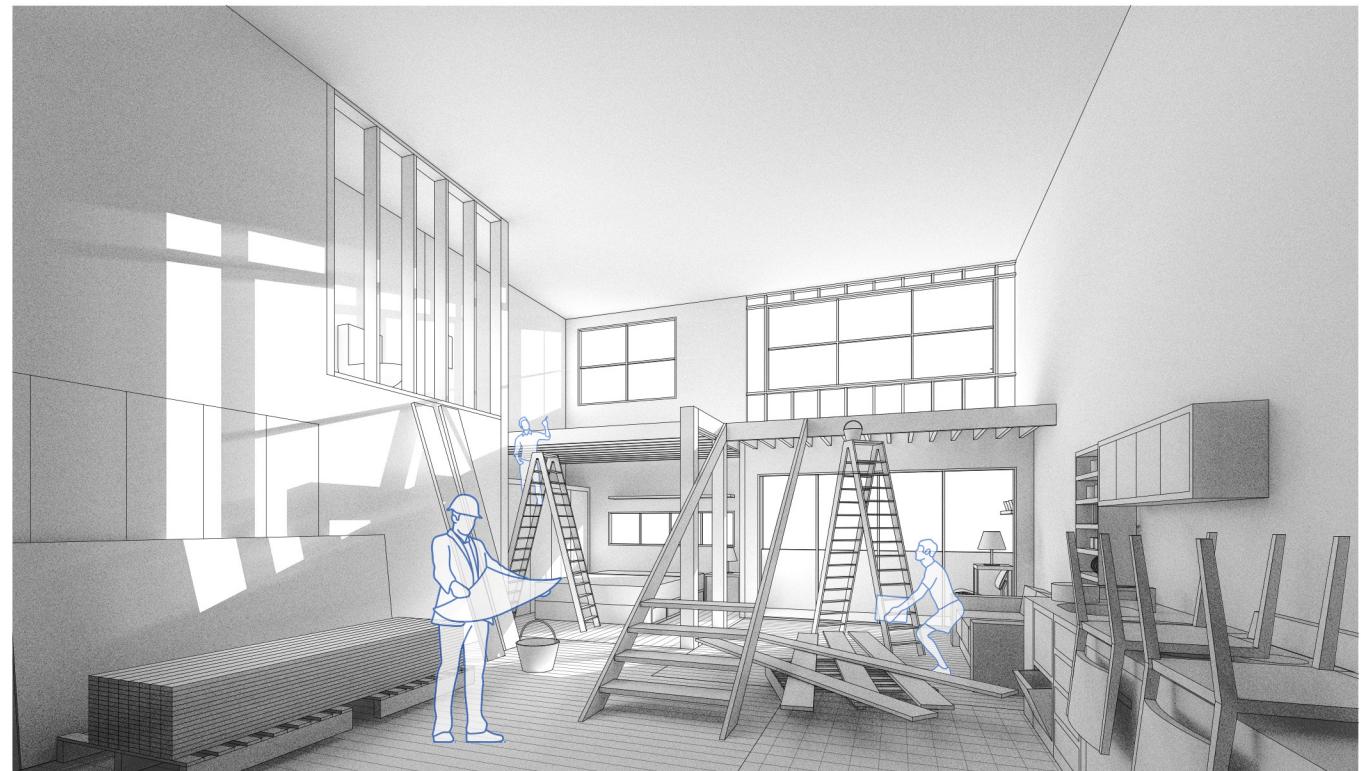
This site is located in Soho. The area is filled with upper-income avenues such as high-end retail and boutique dining. People living and working here generally already have a high annual income, but even they can benefit with incremental housing with their fast-paced lifestyles.

# Module Catalogue





Initial Layout



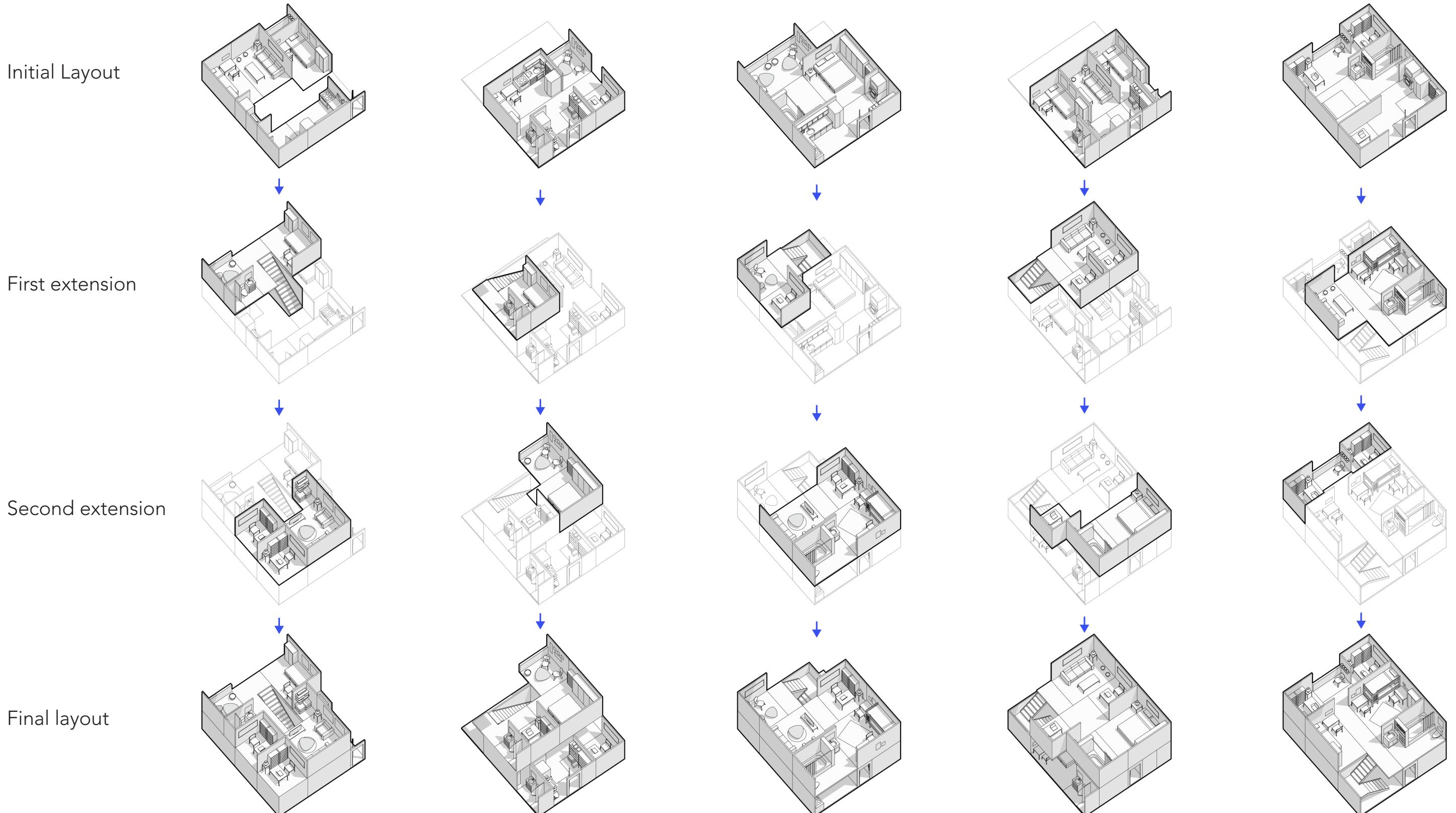
Construction phase

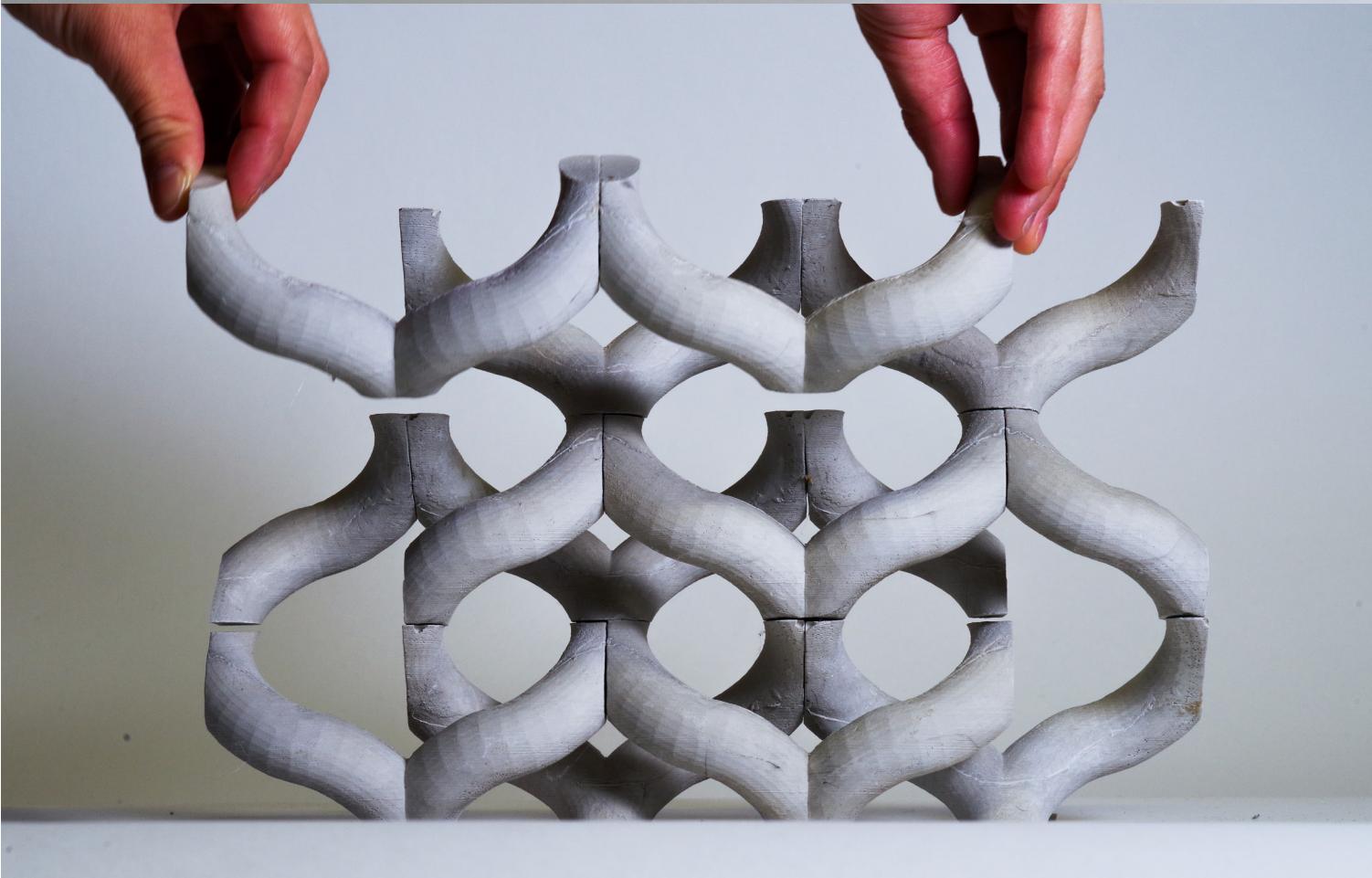
In 'Expandable Apartments', people don't own apartments, rather they own lots of spaces. They choose an initial layout of their choice from a housing module catalogue, which will be constructed by certified workers. As people's income rise, professions change, or family members grow, they can add new modules outwards and even upwards to accommodate their new living conditions.



Extended layout

# Expansion Variations





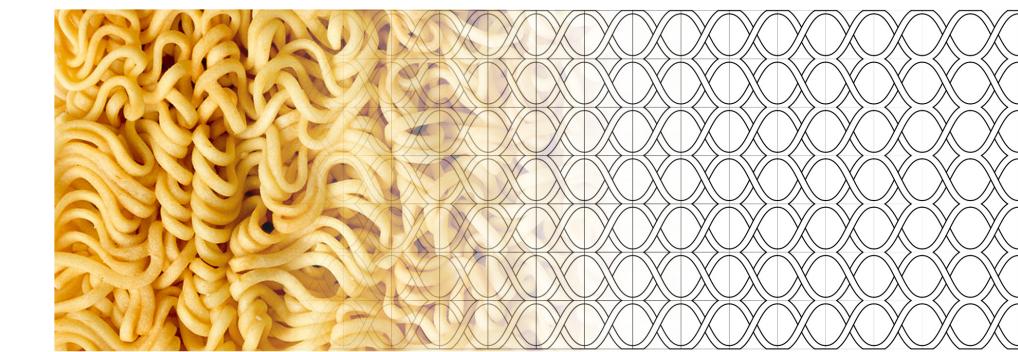
# Undulating transitional geometries

3D Concrete tiling through hands-on fabrication

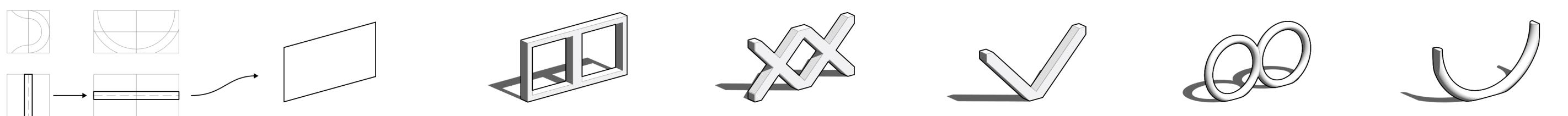
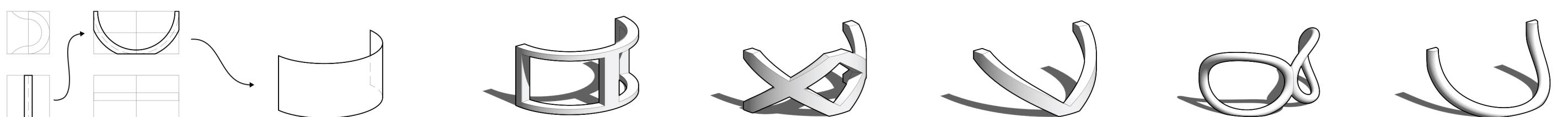
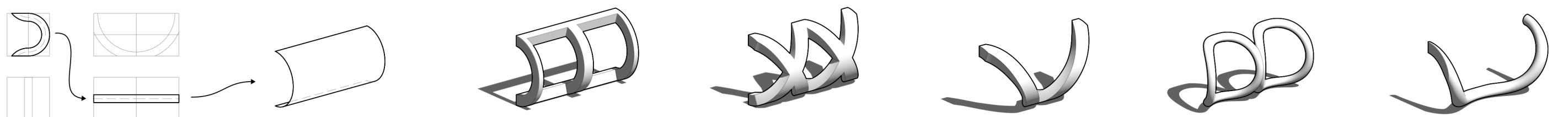
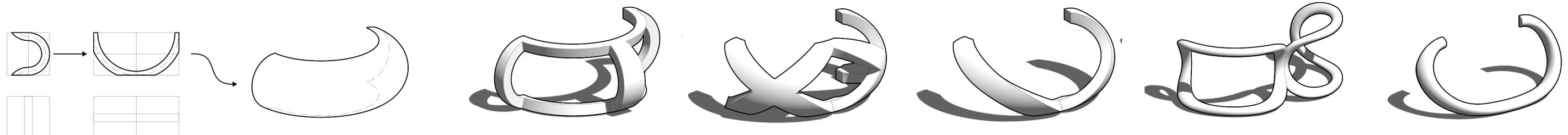
Transitional geometries (A4856) | Columbia GSAPP | Fall 2019

Professor Joshua Jordan [jcj2134@columbia.edu](mailto:jcj2134@columbia.edu)

The goal of Transitional geometries was to first design a three-dimensional tiling system, to then create an efficient fabrication process which would allow me to produce at least 12 tiles. My tiles were inspired by the curvy patterns of instant ramen noodles, which also bear similarities to microscopic views of cloth weavings. The first challenge was deconstructing the ramen noodle's two-dimensional underlying pattern, then to expand the system into the three-dimensions. But the more difficult challenge was the fabrication process, as I had to perfect the silicone molding and the concrete casting process.

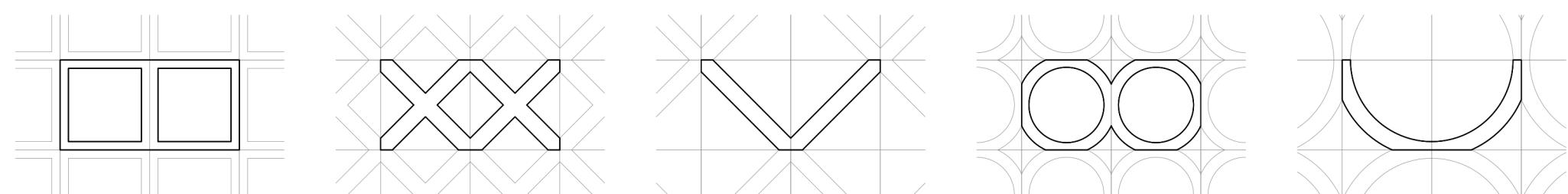


Deconstructing ramen noodle's geometrical underlay



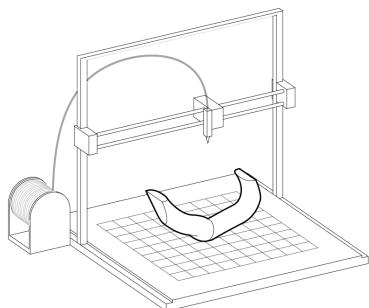
Sectional and planar patterns

## Formal combinations

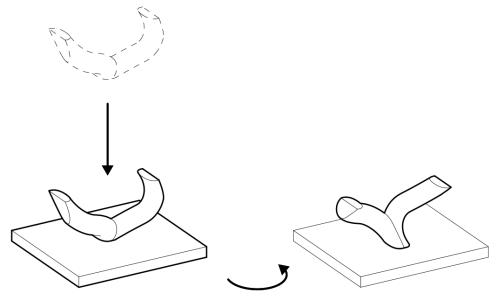


Elevational patterns

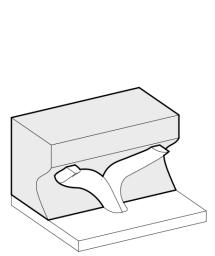
## Two-part mold fabrication process



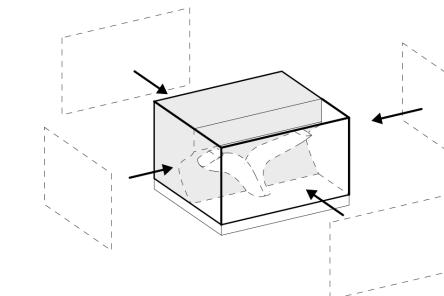
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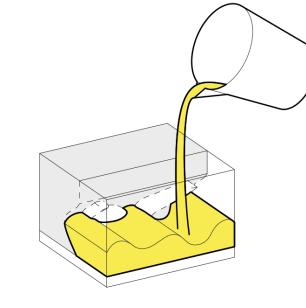
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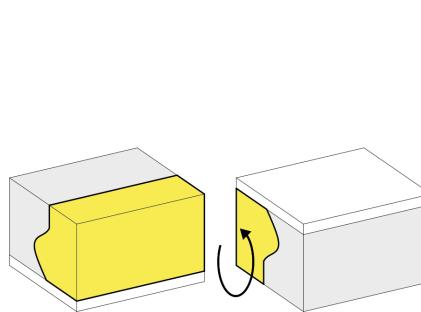
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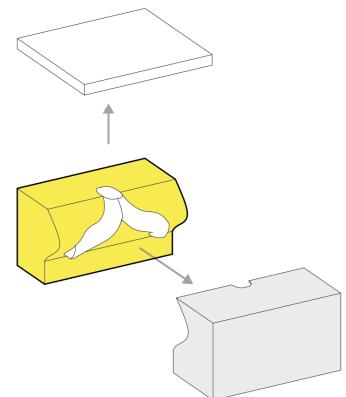
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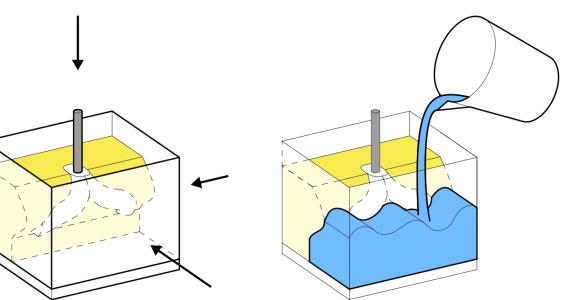
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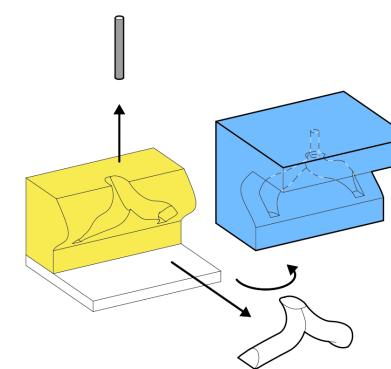
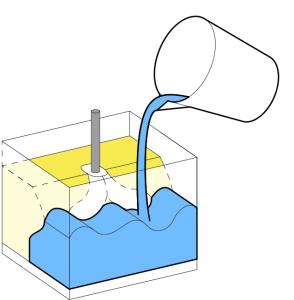
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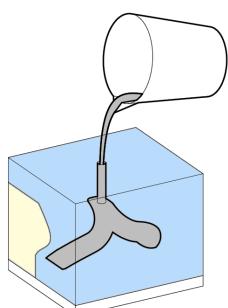
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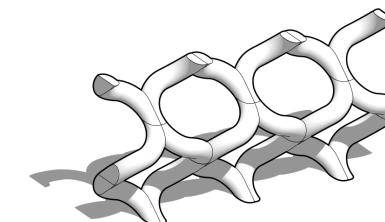
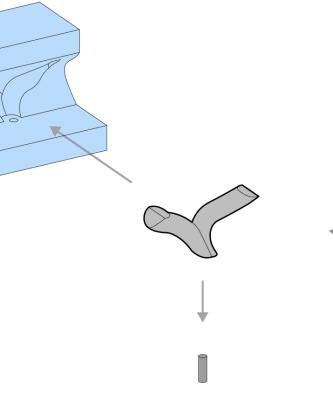
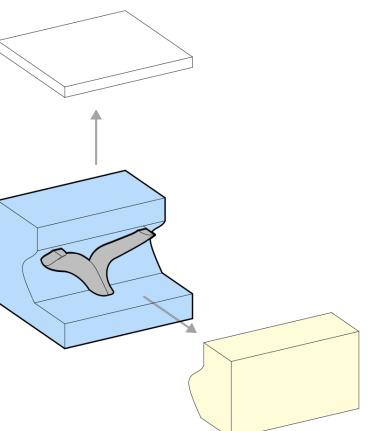
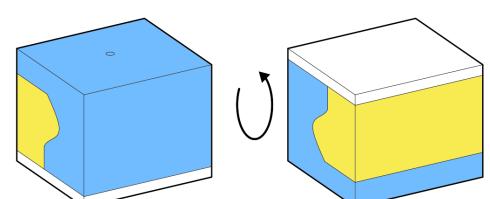
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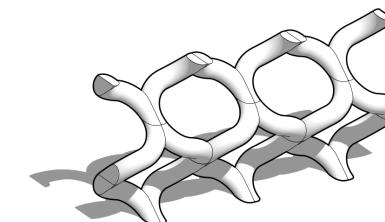
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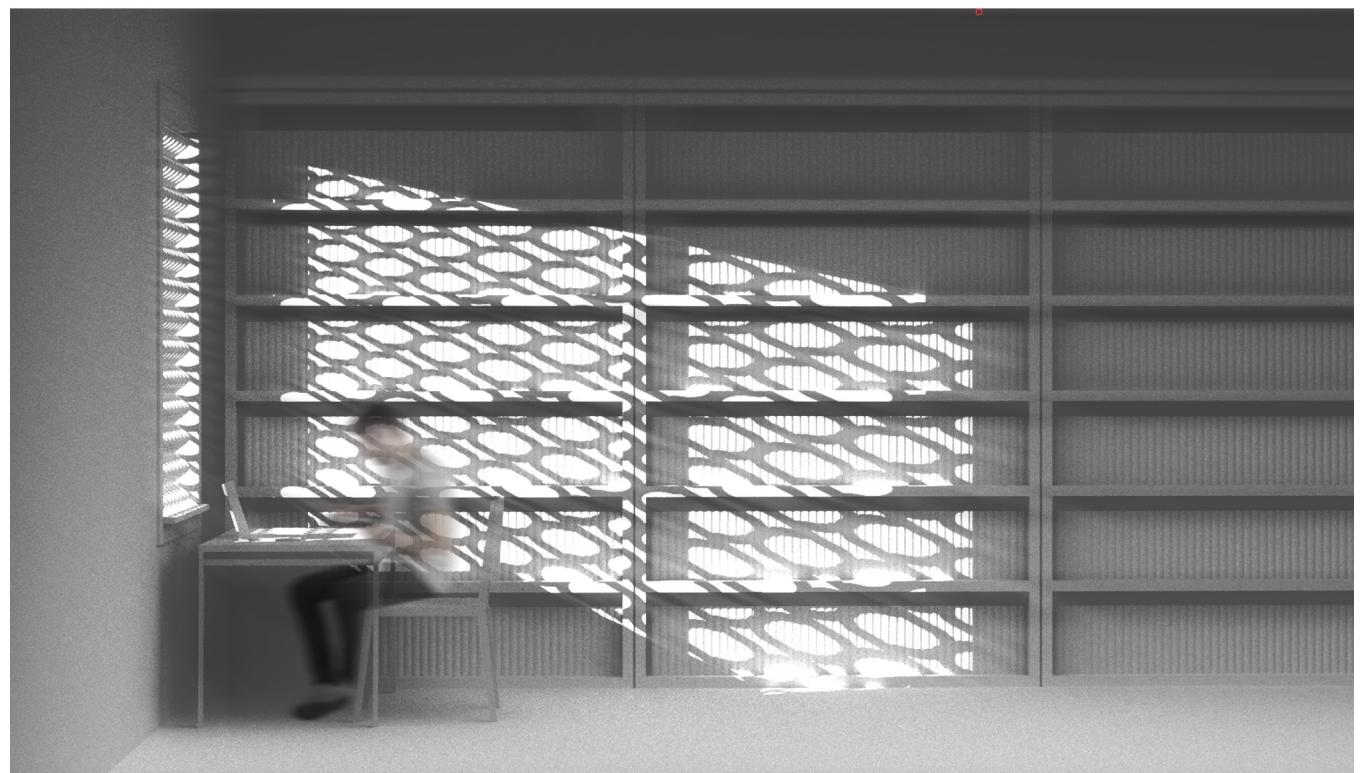
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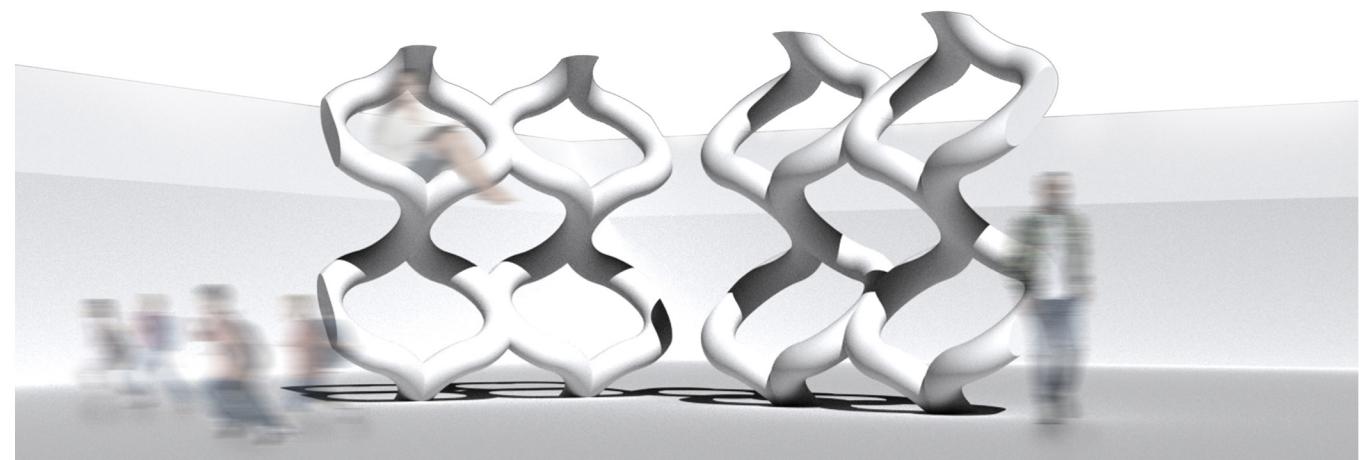
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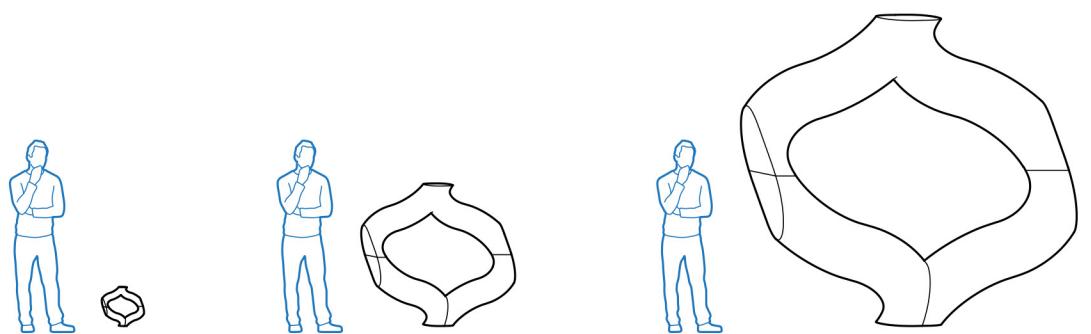
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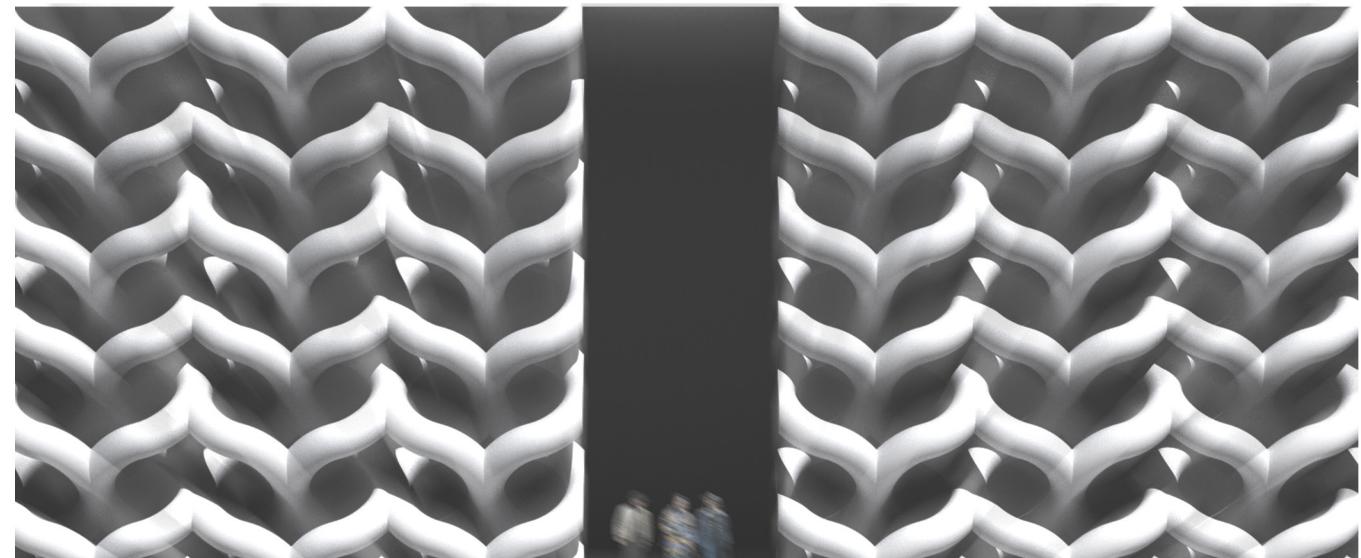
Small scale



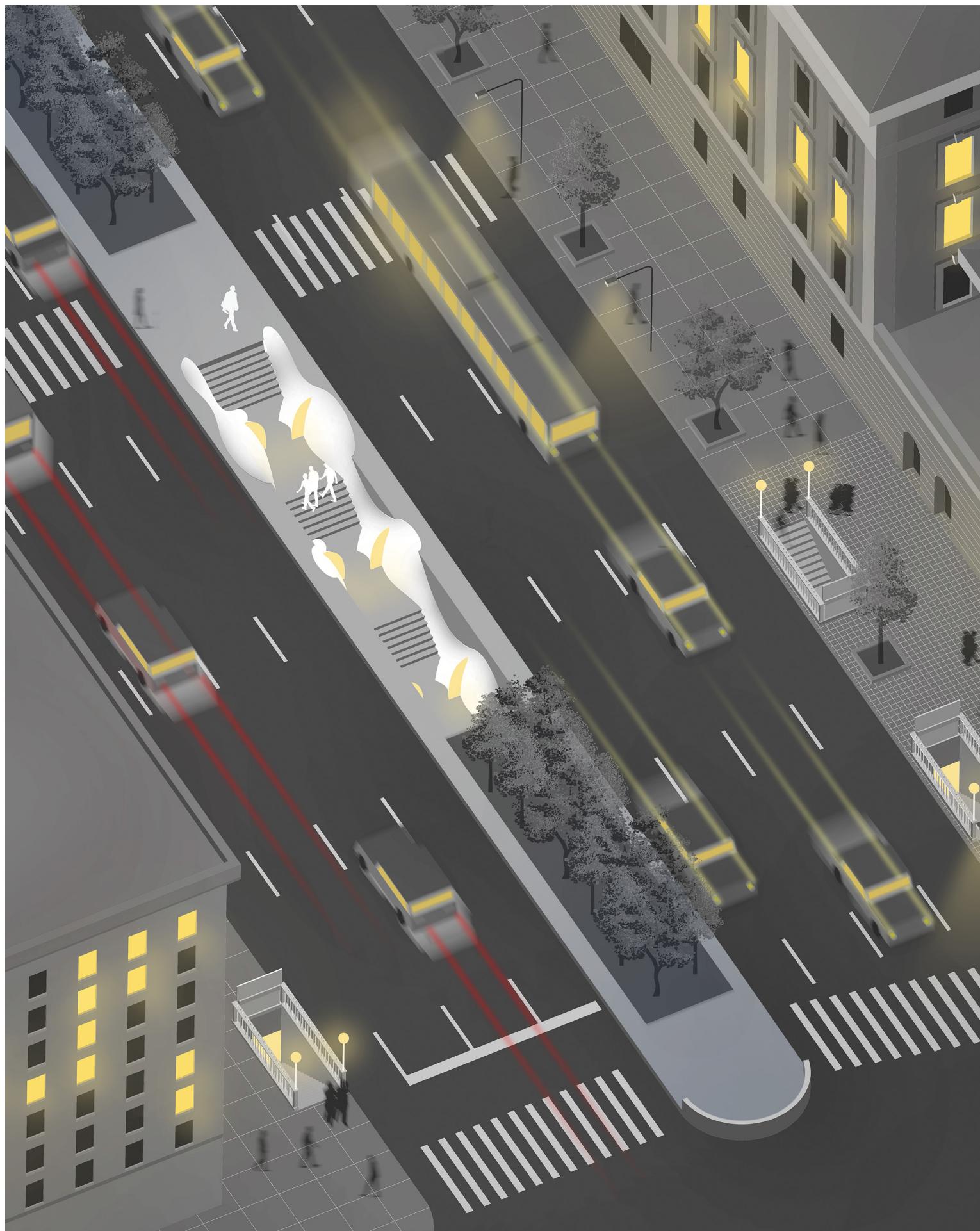
Medium scale



The undulating form is designed to be adaptable when fabricated in various scales



Large scale



# NYC Sensory Alleviation part 1

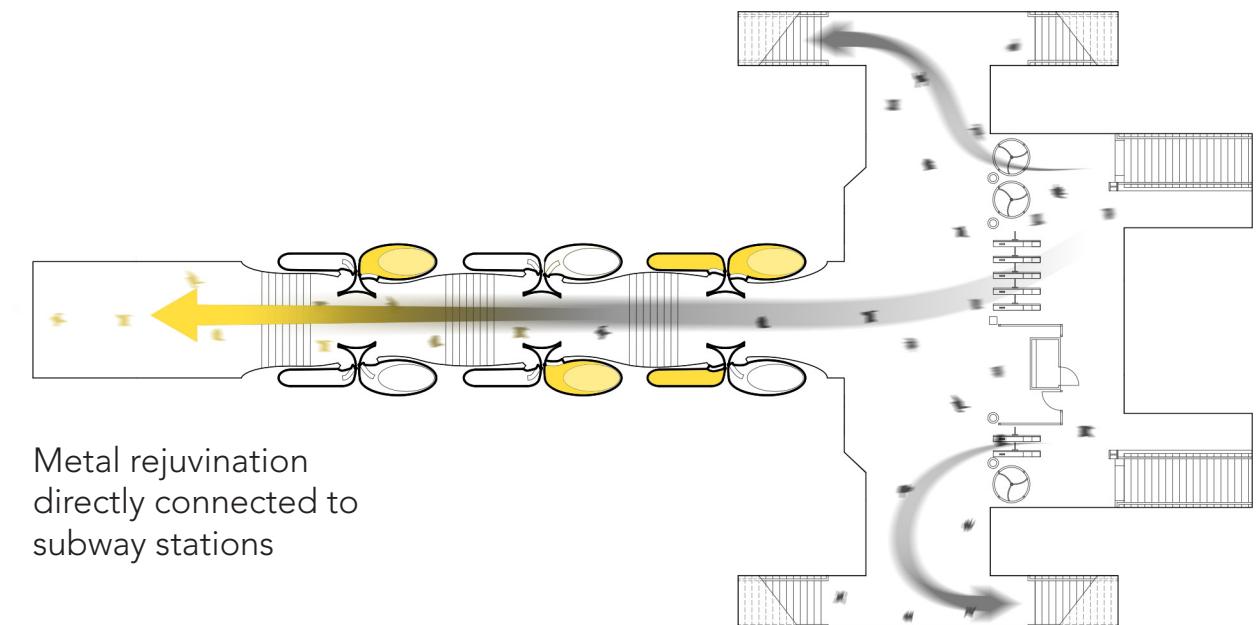
Sensory deprivation pods

CORE I (A4001) | Columbia GSAPP | Fall 2019

Professor Lindy Roy [lir25@columbia.edu](mailto:lir25@columbia.edu)

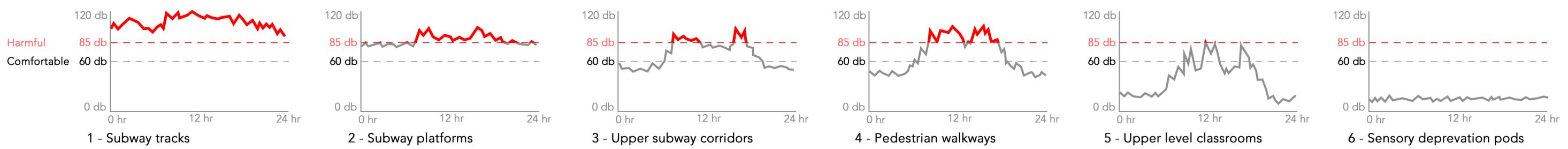
Travelling in New York City is never as smooth as it supposed be. Heavy pedestrian traffic requires constant attentiveness, noise pollution from police sirens, vibrations from the subway, all contribute to the an numbing of people's sensory instruments. Long term exposure to these sensory-overload conditions can significantly impact the mental well-being of New Yorkers - many show symptoms of stress, anxiety, and depression after staying merely a year in New York City.

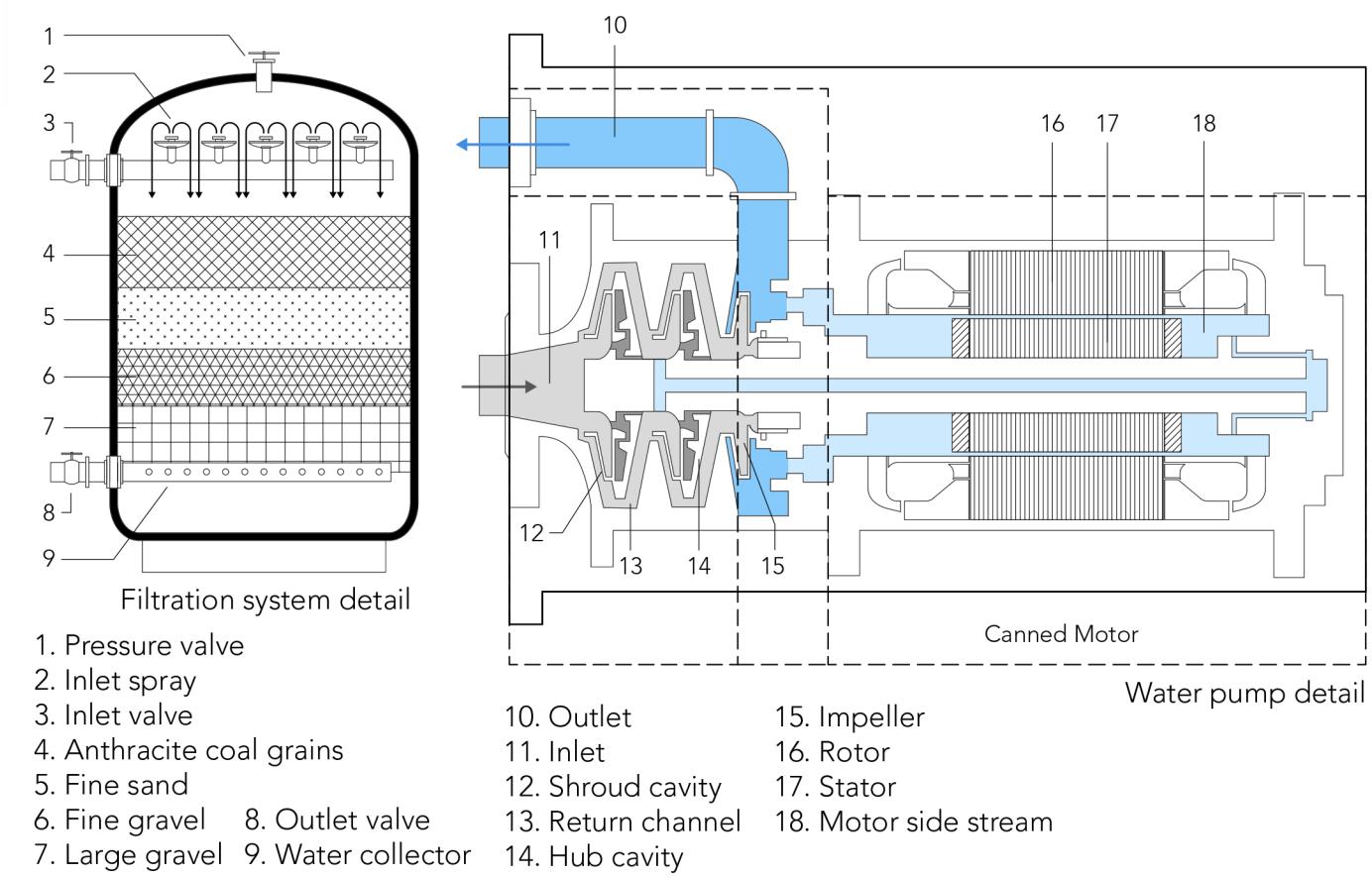
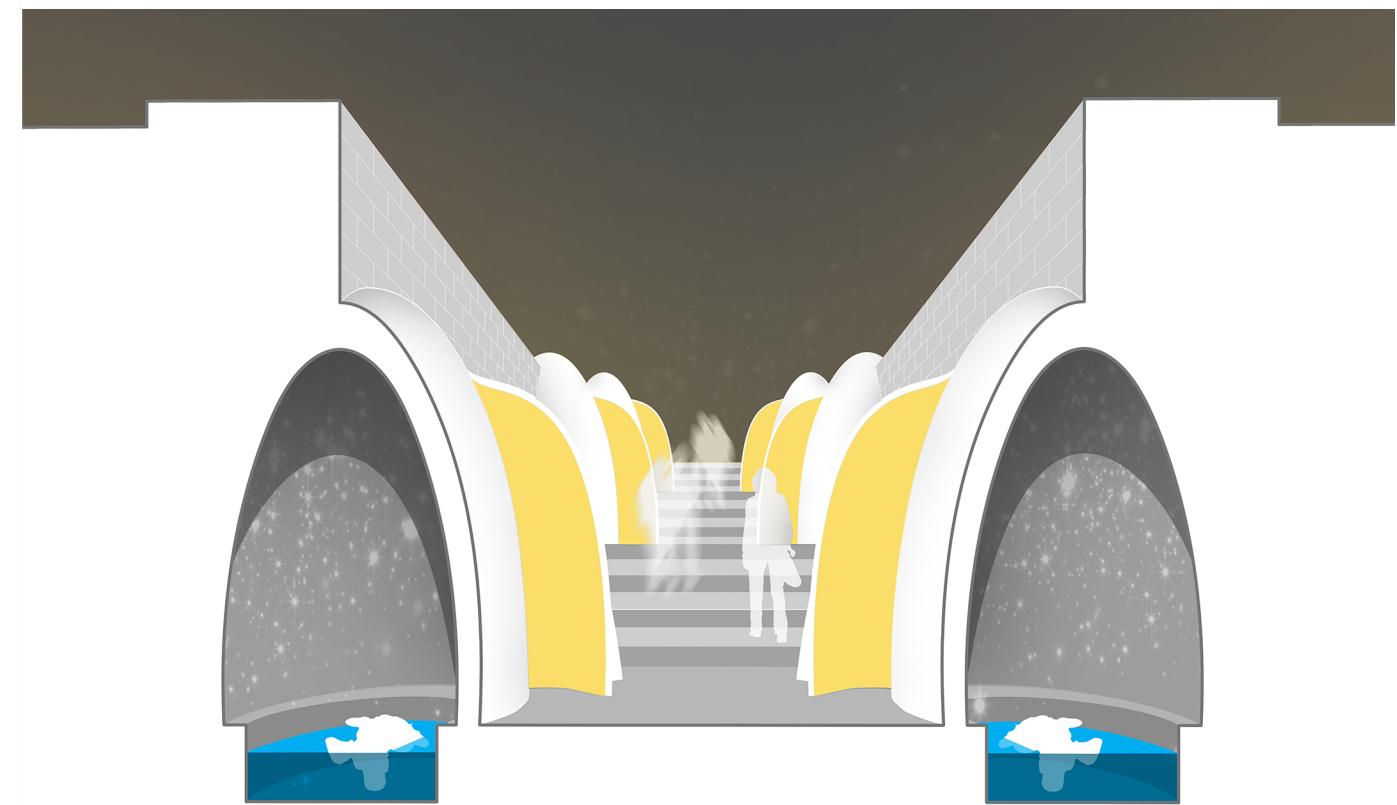
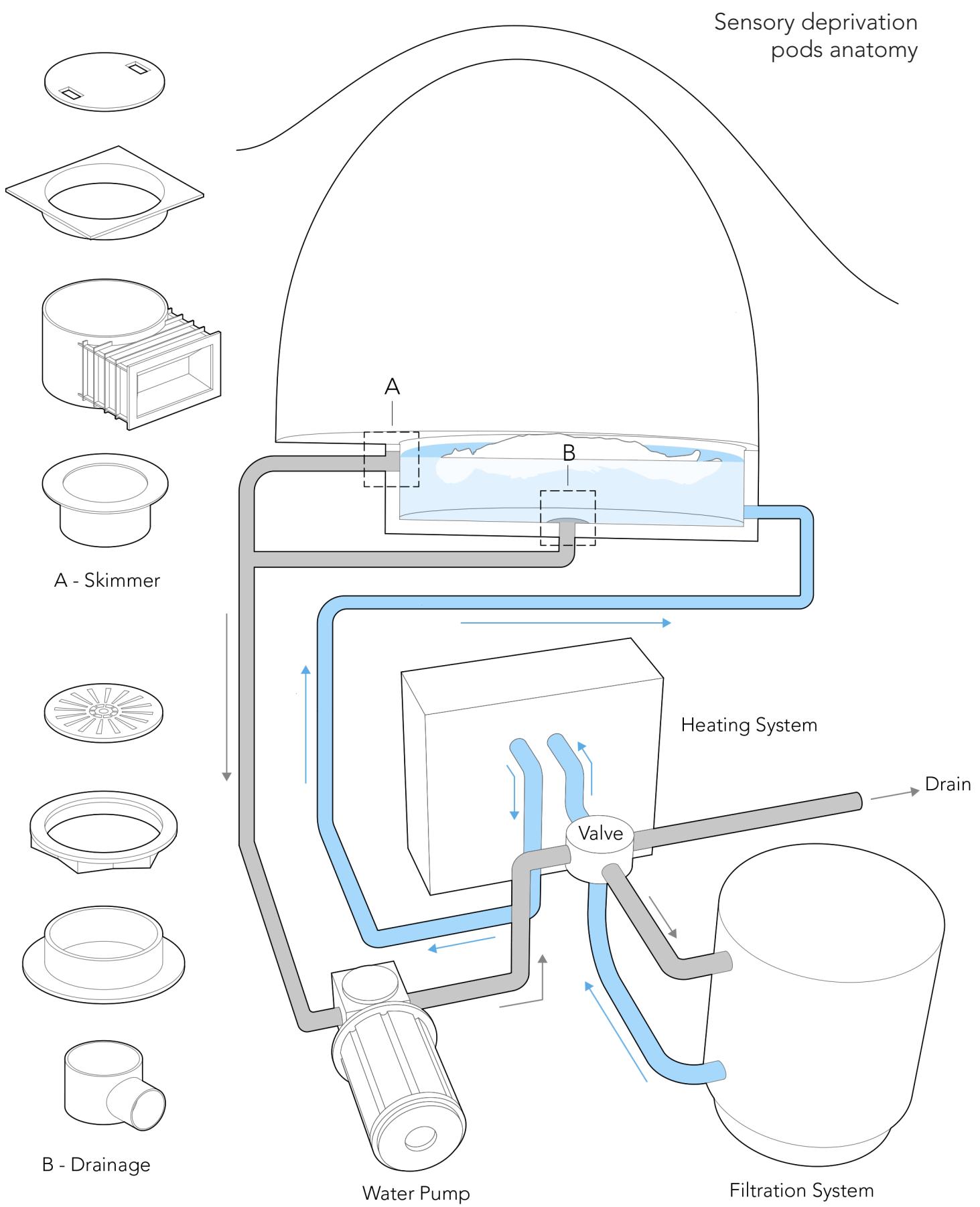
Although stress alleviation does exist in forms of yoga, exercise, and meditation, I propose a solution that taps directly in the main infrastructure of New York City: Sensory deprivation pods readily available outside subway stations; An opportunity to totally unwind and disconnect in hopes for a rejuvenated metal state afterwards.

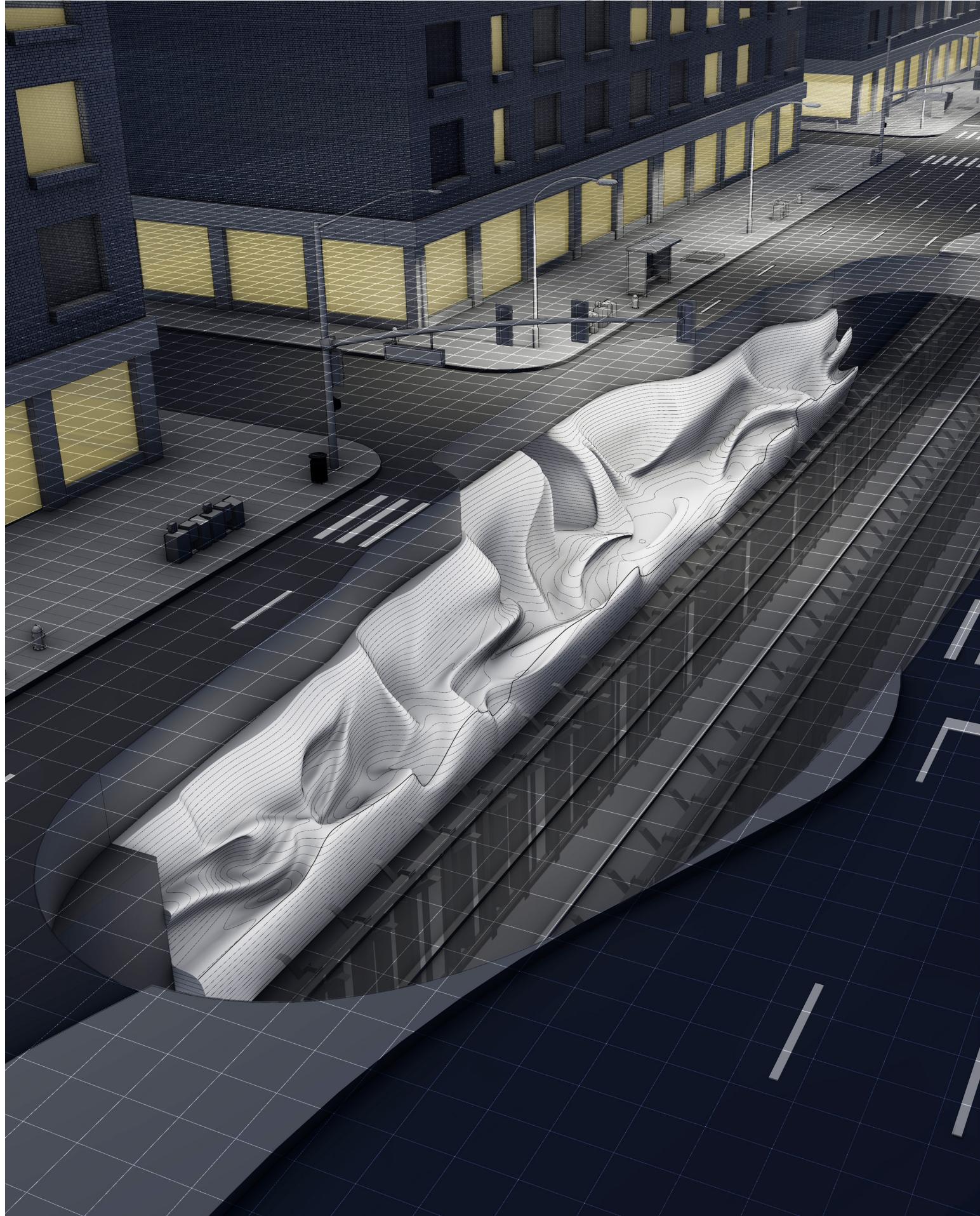


Metal rejuvenation  
directly connected to  
subway stations

# Sound levels analysis







# NYC Sensory Alleviation part 2

Underground tranquil landscaping

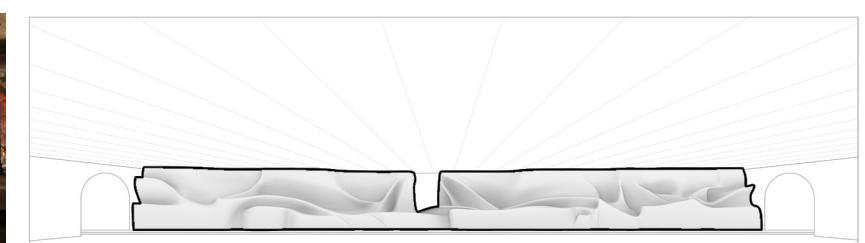
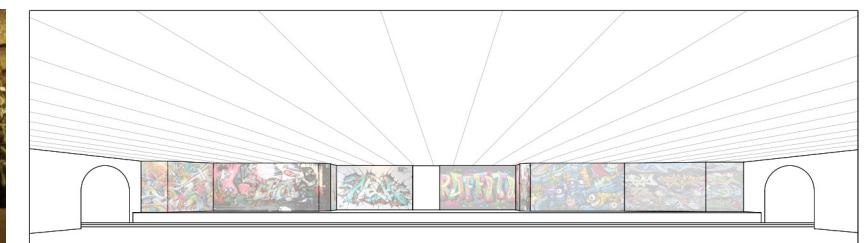
CORE I (A4001) | Columbia GSAPP | Fall 2019

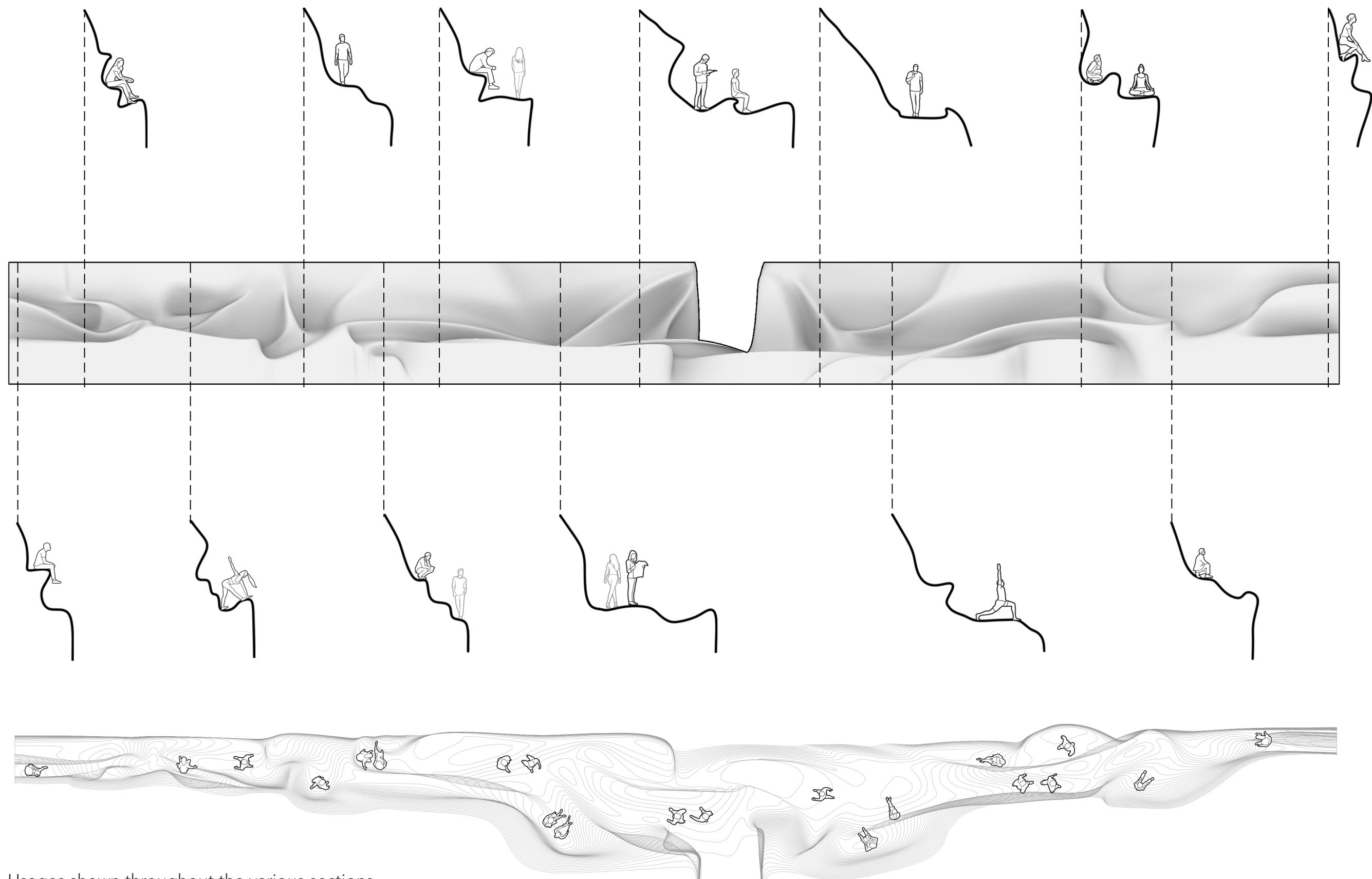
Professor Lindy Roy [lir25@columbia.edu](mailto:lir25@columbia.edu)

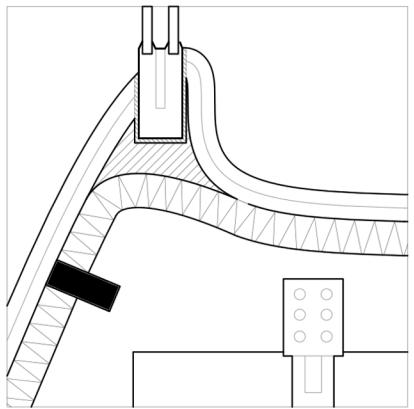
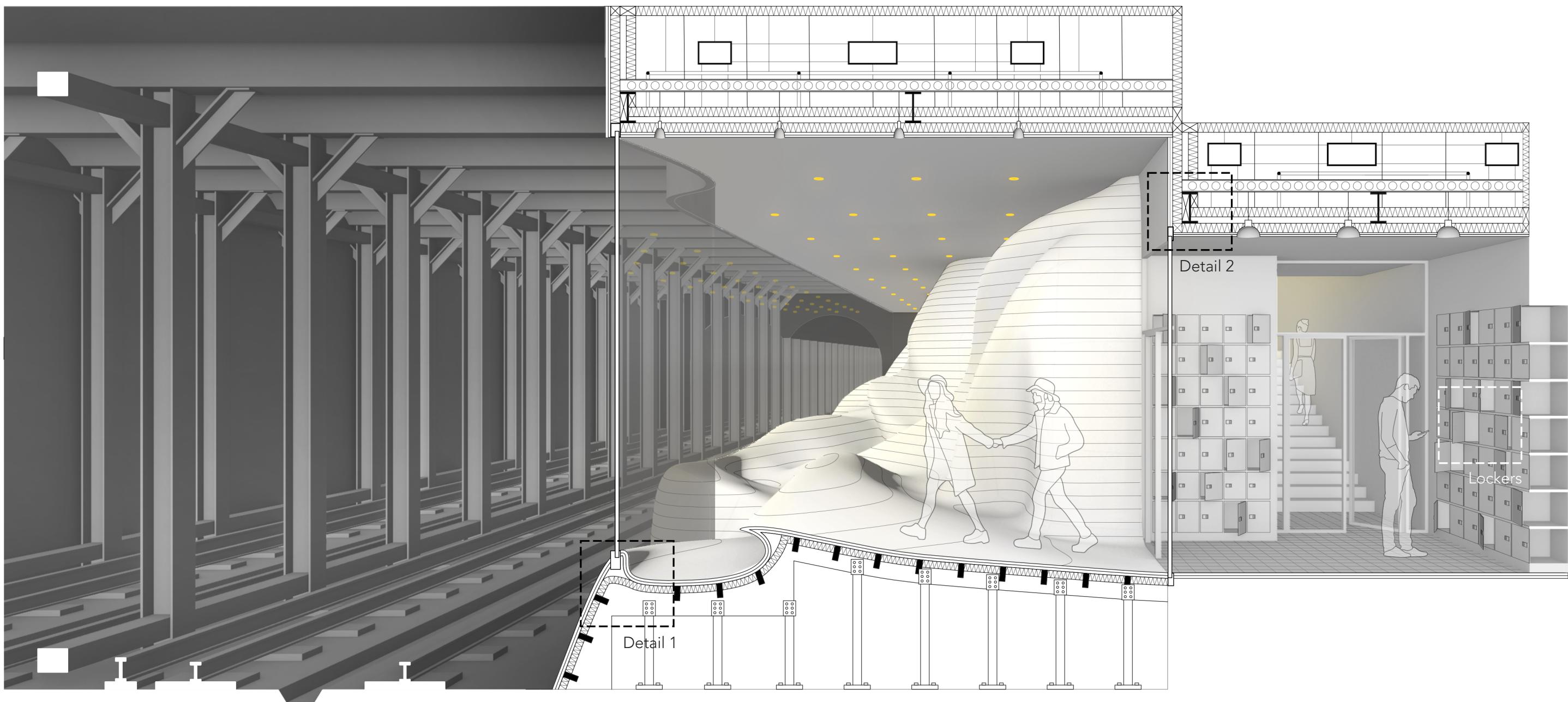
'Underground tranquil landscaping' builds upon the idea of destressing in New York city beyond the individualized experience of sensory deprivation pods. The idea is to repurpose an abandoned train station in 91st street and Broadway, into a sound isolated landscaping area. The form is inspired from the gentle curves of blankets that reminds people of resting in their beds at home. Note that only sound is isolated. A glass window exists on the border of the platform level to observe the passing trains. While people are at the landscaping, they can still feel the subway lights and vibrations.

This proposal is a mid way solution to sensory deprivation, in contrast to the extreme total isolation in the pods in part 1. The previous pods act as an idealization of this idea of freeing oneself from sensory overload, while this proposal is a more aims for a more practical approach

91st abandoned subway station conditions & proposed revitalization

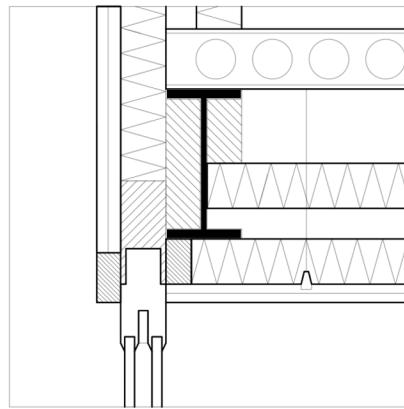






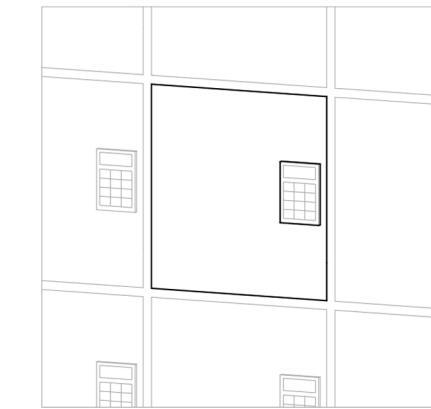
Detail 1

The platform is surfaced with Isoprene rubber for a soothing, soft feel, standing above an undulating CNC wood framing



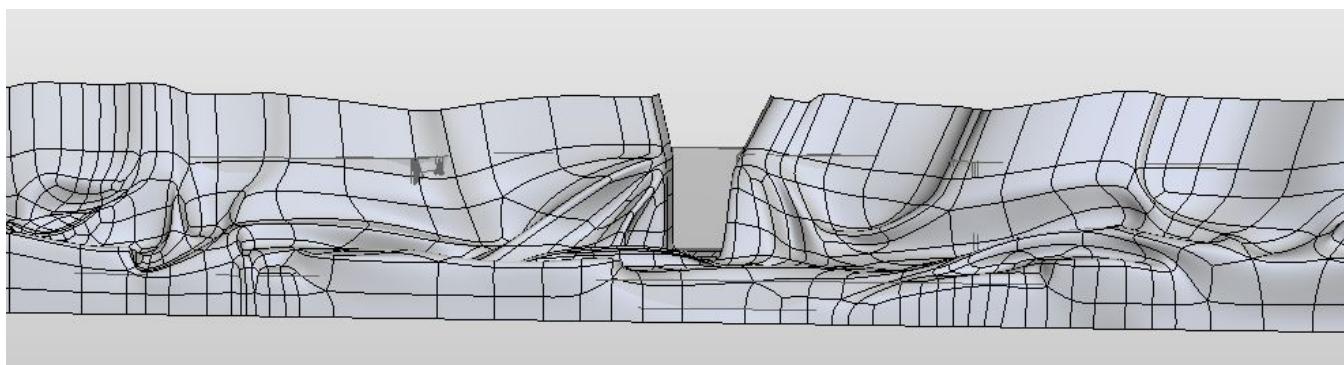
Detail 2

Sound proofing is achieved by insulating the ceilings with double layer of insulation with an air gap, as well as double pane glass windows and doors



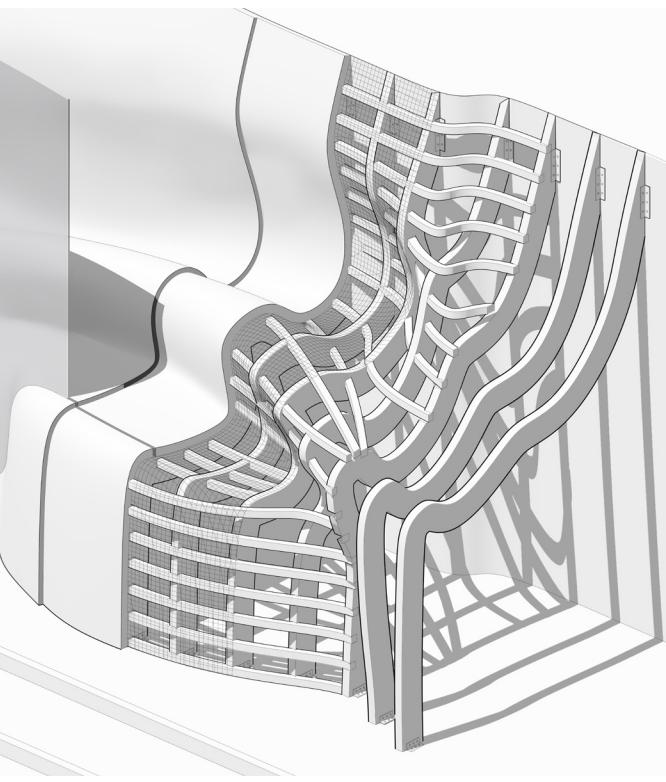
Lockers

Visitors enter through the side stairs, then are given an option to store their belongings at self-store lockers, all managed by an online App. Visitors may also reserve their spot in advance, since the area is maintained at a certain occupancy level

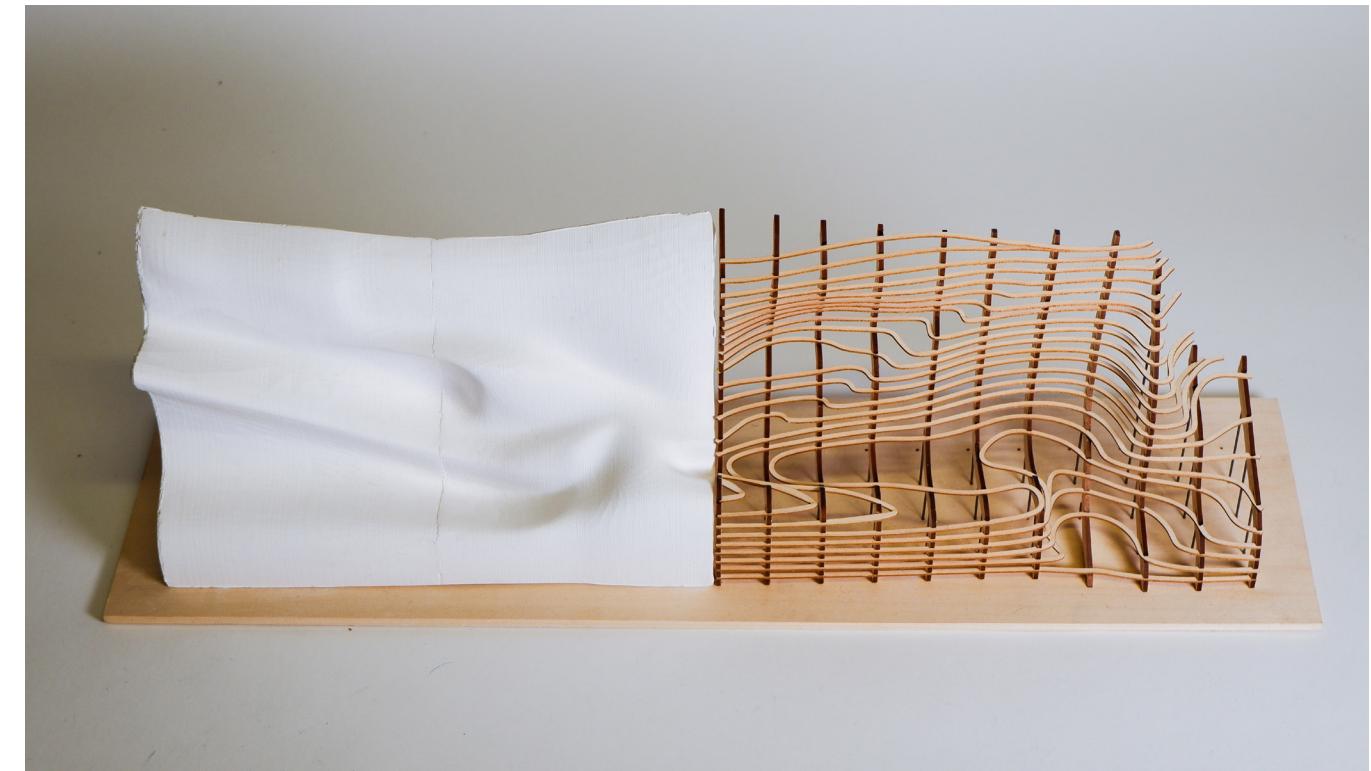


Subdivision Modeling

A big part of the formal analysis process is the software which allows ease subdivision surface modelling such as 3DS Max, in contrast to the accurate but more rigid NURBS modeling tools such as Rhinoceros



Structure of landscaping



Physical model casted with Hydrocal in 3d printed mold  
in combination to lazer-cut basswod



Hydrocal cast



Exterior and interior renderings produced for schematic design drawing set



# Perkins and Will Chicago

Damen Green Line metro station

Architecture Intern | Summer 2018

Reference - Andrew Sommerville [andrew.sommerville@perkinswill.com](mailto:andrew.sommerville@perkinswill.com)

During my internship, I had the opportunity to help out with one of Perkins and Will's ongoing project, The Damen Green Line Station.

My responsibility was to do post processing editing on all of the renderings that were to be published for 15% design submission to the City of Chicago Department of Transportation. Under the supervision of Brian Schabel, Matthew Kuhl, and Andrew Sommerville, I updated design changes, positioned entourage, and painted atmospheric lighting. I was also responsible for producing last minute drawings needed for client presentations, such as the glass panel maintenance diagrams

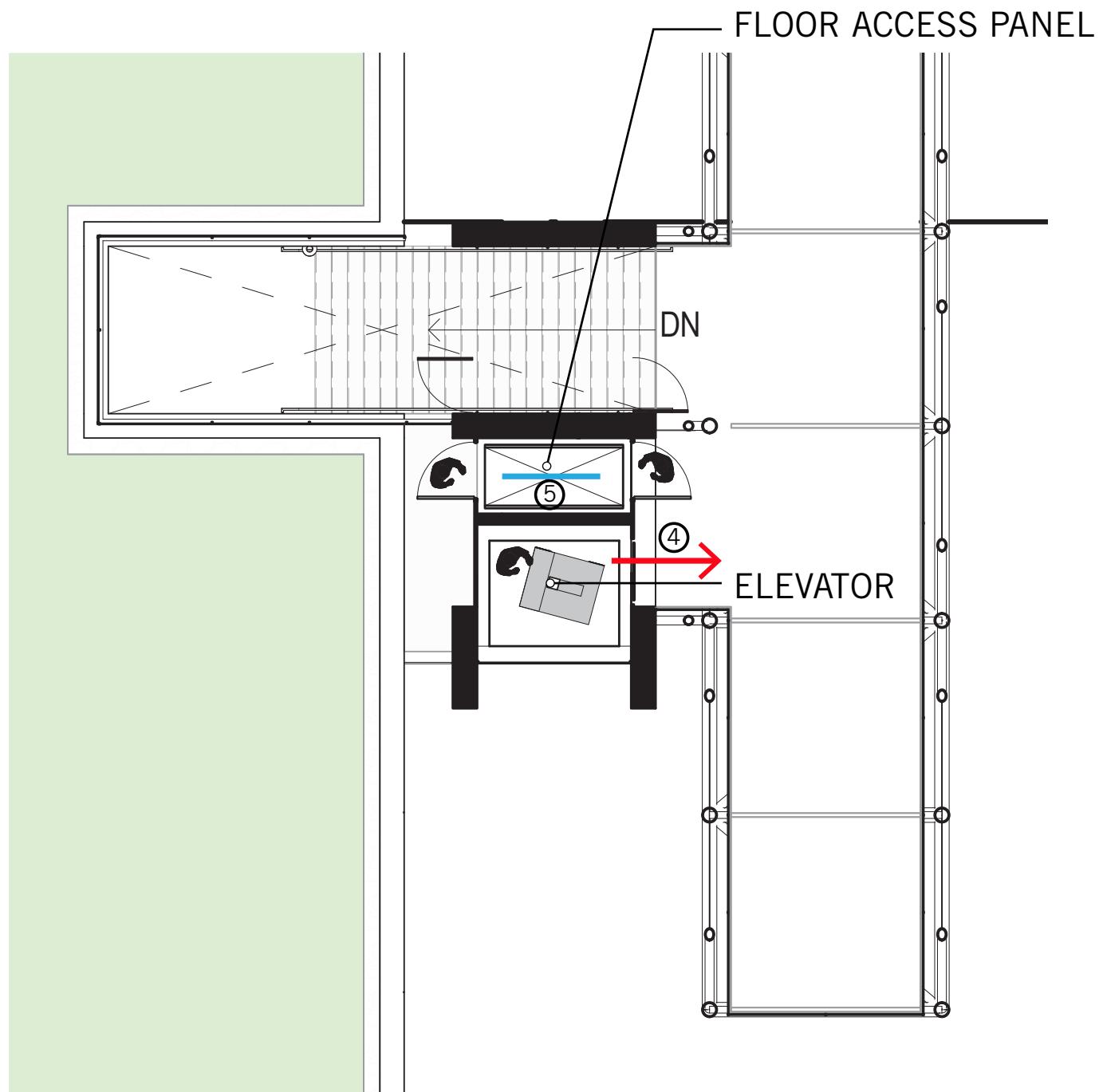
These renderings were later announced by the Mayor of Chicago Rahm Emanuel during a public broadcasting of the planned metro station.

All of the renderings belong to Perkins and Will Chicago.

Chicago's mayor Rahm Emanuel announcement on the design

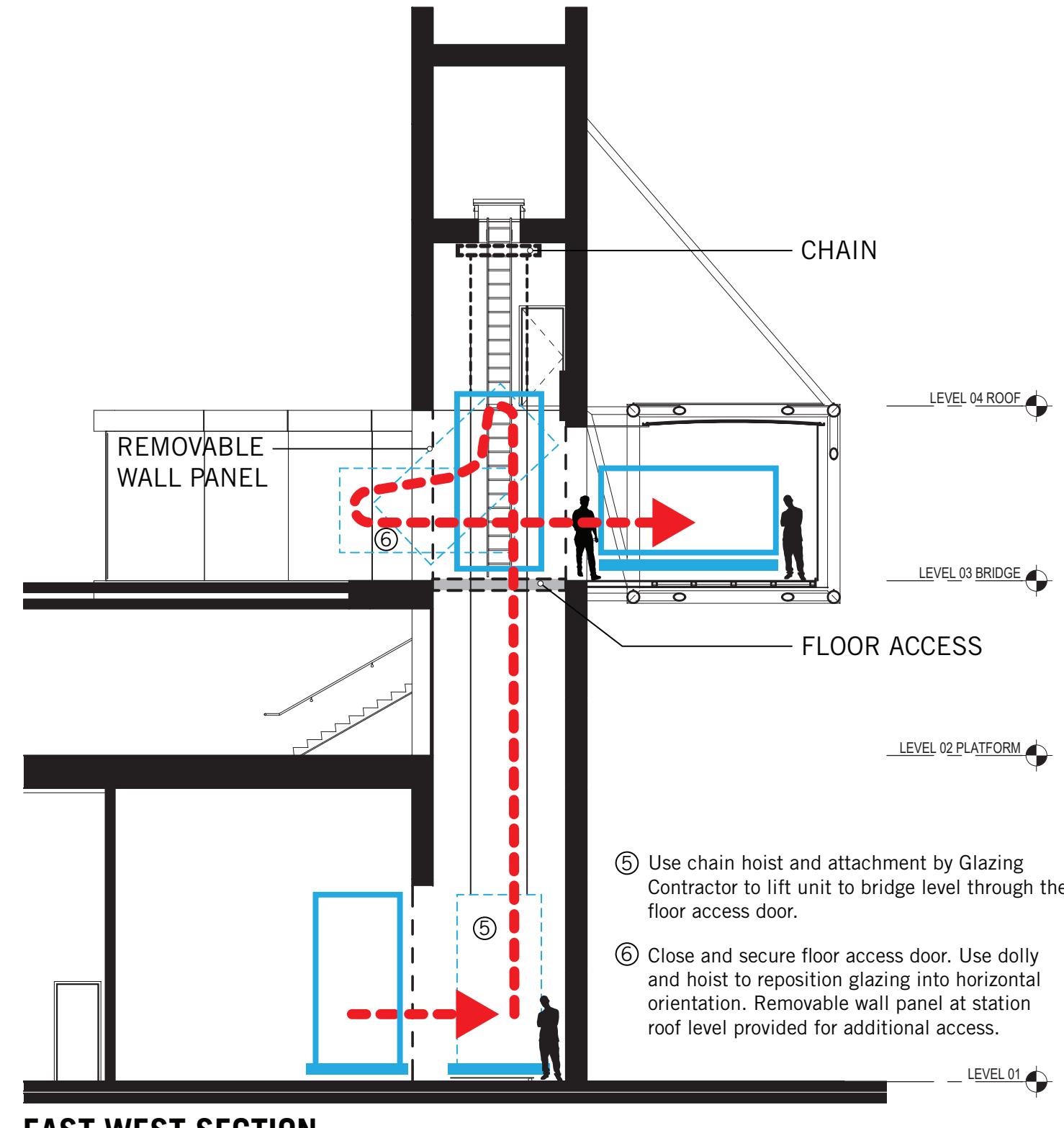


# Glass panel replacement diagrams



**LEVEL 03 PLAN**

- ④ Transport Glass Manipulator to bridge level in elevator.
- ⑤ Use chain hoist and attachment by Glazing Contractor to lift unit to bridge level through the floor access door.



**EAST-WEST SECTION**

- ⑤ Use chain hoist and attachment by Glazing Contractor to lift unit to bridge level through the floor access door.
- ⑥ Close and secure floor access door. Use dolly and hoist to reposition glazing into horizontal orientation. Removable wall panel at station roof level provided for additional access.



Documentation of existing conditions, in progress production, and the official opening of the bridge



# Bridges to Prosperity

Non-profit organizational involvement

Fundraising Leader | Fall 2017 - Spring 2017

I was involved in a civil engineering organization that designs and builds bridges for needy communities in Latin America. This term the project was to aid communities in Bojo Maiz, Panama.

Although my basic role was to coordinate fund raisers, my architectural skill set was useful in visualizations and construction documentation. I did the rendering below and drawings on the left under the strict supervision of Bhrigu Joshi, Vivian Wong, and Yangbing Wang. These drawings contributed in convincing Engineering Firms to sponsor and supervise the bridge construction.

The bridge was completed in the beginning of Fall 2017.

All of the images belong to Bridges to Prosperity Illinois Chapter.

