



*Sustainability  
Experiential  
Retail Shop*

Heather Melvin-INDS  
470-Fall/Winter 2020-21

# Contents

## Phase I: Project Overview, Research and Inspiration

Project Overview	4
Project Proposal	5
Idea Mapping	6
Research	7-17
Citations	18-20
Inspirational Precedent Studies	21-23
Client	24

## Phase II: Project Definition

Personas	25-26
Empathy Map	27
User Journey	28
Precedent Studies	29-35

## Phase III: Building and Site Analysis

Site In a Larger Context	36-37
Local Laws	38
Area Characteristic Assessment and Transportation	39
Site Views	40
Site Organization and Surrounding Circulation	41
Space Volumes and Massing	42-43
Structural Systems	44
Unique Building Features & Materiality	45
Window Size and Modularity	46
Natural Light	47
Fire Safety	48

## Phase IV: Concept Ideation and Schematics

Concept	49-50
Adjacency Diagram/Program	51
Spatial Needs Summary	52
Key Experiences	53-54

## Phase V: Schematics and Preliminary Design

Bubble Diagrams	55-60
Block Diagrams	61
Preliminary Floor Plans	62
Preliminary Ceiling Plans	63
Study Models	64
Preliminary Materials	65
Preliminary FFE	66
Preliminary Elevations	67-70
Preliminary Perspectives	71-73

## Phase VI: Schematic Design and Design Development

### Refinement

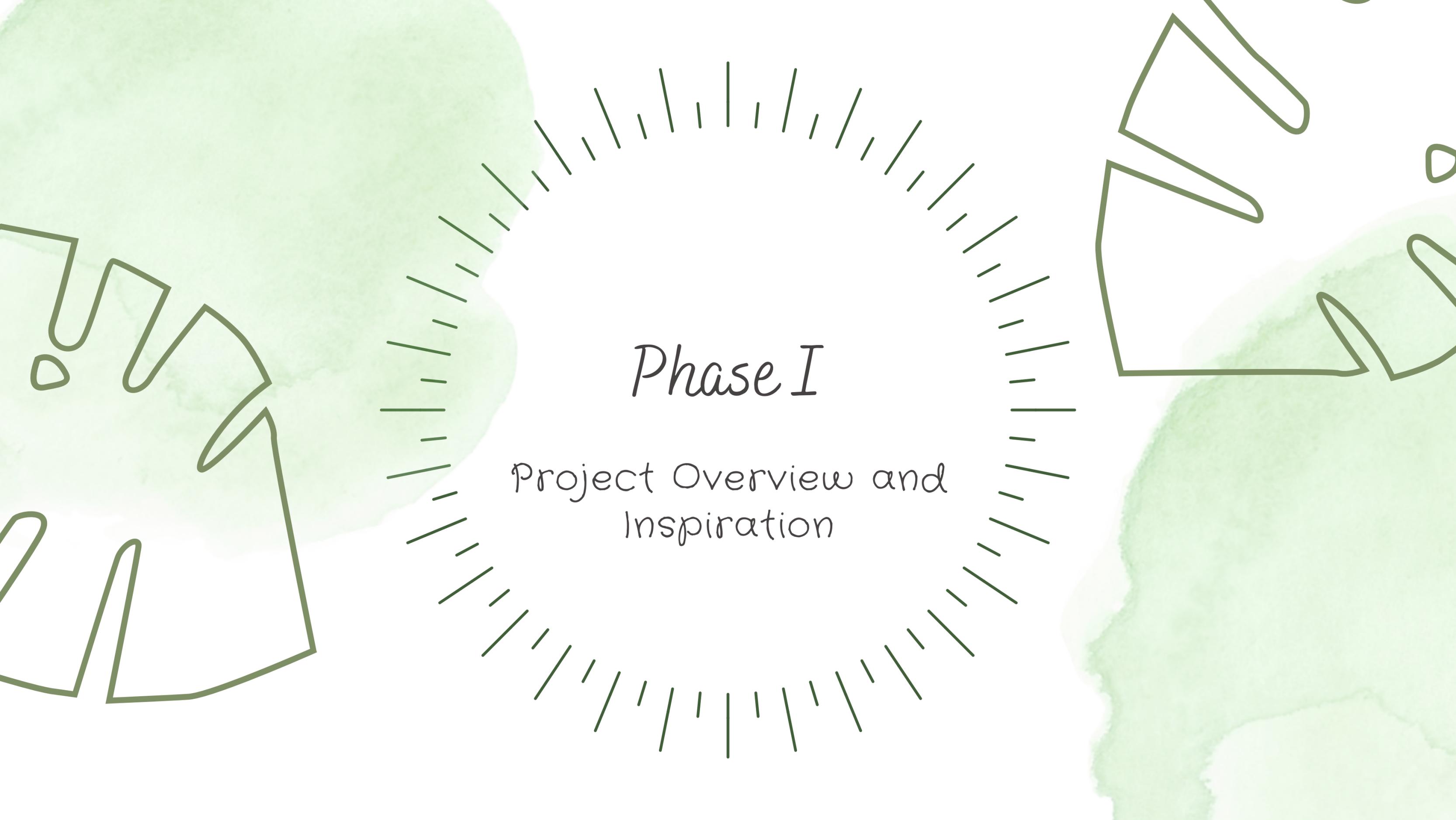
Working Floor Plans	74-76
Working RCP	77
Volumetric Drawings	78-84

## Phase VII: Design Development Sheets, Cost Estimate and FFE

LSP	85-87
Cover Page	88
Floor Plans	89-92
Floor Finish Plan	93-96
Elevations	97
Furniture Plan (Enlarged)	98
RCP (Enlarged)	99
Finish Plan (Enlarged)	100
Detail/Millwork	101
Signage Package	102
FFE	103-135
Cost Estimate	136

## Phase VIII: Final Design

Final Renders	137-144
---------------	---------

The image features a central sunburst graphic composed of numerous short, dark green lines radiating from a central point. The sunburst is set against a background of light green watercolor washes. To the left and right of the sunburst are abstract, hand-drawn shapes in a dark green outline style, resembling stylized trees or foliage. The overall aesthetic is artistic and hand-drawn.

# Phase I

Project Overview and  
Inspiration

# Project Overview

What is the issue?

Not many people actually live sustainably, even if they want to be.

Who does it impact?

People who are already interested in living sustainably, but need a resource for information and products.

Why should we care?

It is easy to make small changes.

Proposed Solution:

Creating an experiential retail shop that teaches the gap in information about sustainable living and provides convenient access to sustainable products

# Project Proposal

With climate change becoming a bigger issue than ever before, people need to start making changes in their everyday lives. I am proposing a design for a sustainability, experiential retail shop. This building is meant for people who are interested in learning more about living sustainably, but find it difficult and need help with doing that for one reason or another. This center is meant to be a hands on learning experience with easy access to materials for taking the next small steps to living more sustainably. It is easy to make small changes to become more sustainable and this space will help you with that.

# Idea Mapping

## Ways to be more Sustainable:

- Gardening
- Composting
- Zero waste
- Refill liquid products
- Buy solid products with little or no packaging
- Buy in bulk

Why Don't More People Do It?

## Think Its Expensive

### Solution:

- Actually cheaper:
  - Saves money because you aren't paying for packaging
  - You can make your own products/food
  - Saves on energy costs

## Think Its Too Difficult

### Solution:

- Make it accessible:
  - More zero waste stores
  - Places to refill products

## They Don't Know How

### Solution:

- Teach them how:
  - School
  - Online
  - Community center
  - Workshops
  - Museum



*Phase I*

Research

# Inspirational Article Review - A "Zero-Waste" Farmers Market



Overall it was easy to accomplish the zero-waste farmers market when providing people with the compostable products and the compost bins. Making people aware of the compost bins and how to use them is where they had some difficulties.

## 3 Important Parts for a Zero waste farmers market to work:

1. Vendors provide compostable containers
2. Customers to put waste into compost bins
3. Commercial composter to process waste
  - Composting is necessary for zero waste

75% of vendors felt that compostable containers worked the same, if not better than non-compostable containers.

Compost bins and signs throughout the market, but it was difficult to ensure their use

# Inspirational Article Review - Recycling Is Not Good Enough, Zero-Waste Should Be The Goal

Over 300 MILLION TONS of plastics are produced every year.

It takes 10 YEARS to 1 MILLENNIUM for plastic to decompose.

Only 9% of plastic is recycled.

- Recycling is a polluting industry because of the amount of energy used
- Materials can only be recycled a certain number of times



Circular economy/Cradle to Cradle products is a good solution

Reducing your total waste is best!

"We can't recycle our way to zero-waste."

-Albert Shames,  
Vancouver's Director of Waste



# Statista Facts

Sustainable/socially compliant products:  
Provide environmental, social, and economic benefits over its life cycle.

2018 sales in sustainable products was \$128.5 billion compared to 2014 which had more that \$20 billion less in sales

In 2017 74% of Gen-z and 50% of older generations were willing to spend more on personal care products that were sustainable

47% of seniors and 41% of boomers were not willing to spend more compared to only 13% of Gen-z who were not willing to spend more on sustainable products

Why are older Generations less willing?

- Possible reasons:
  - They have less money to spend
  - They stick with the products and brands that they know
  - They are coming to the end of their life anyways so they do not care about the future of the environment

# Literature Review - Green Washing: Do you know what you're buying?

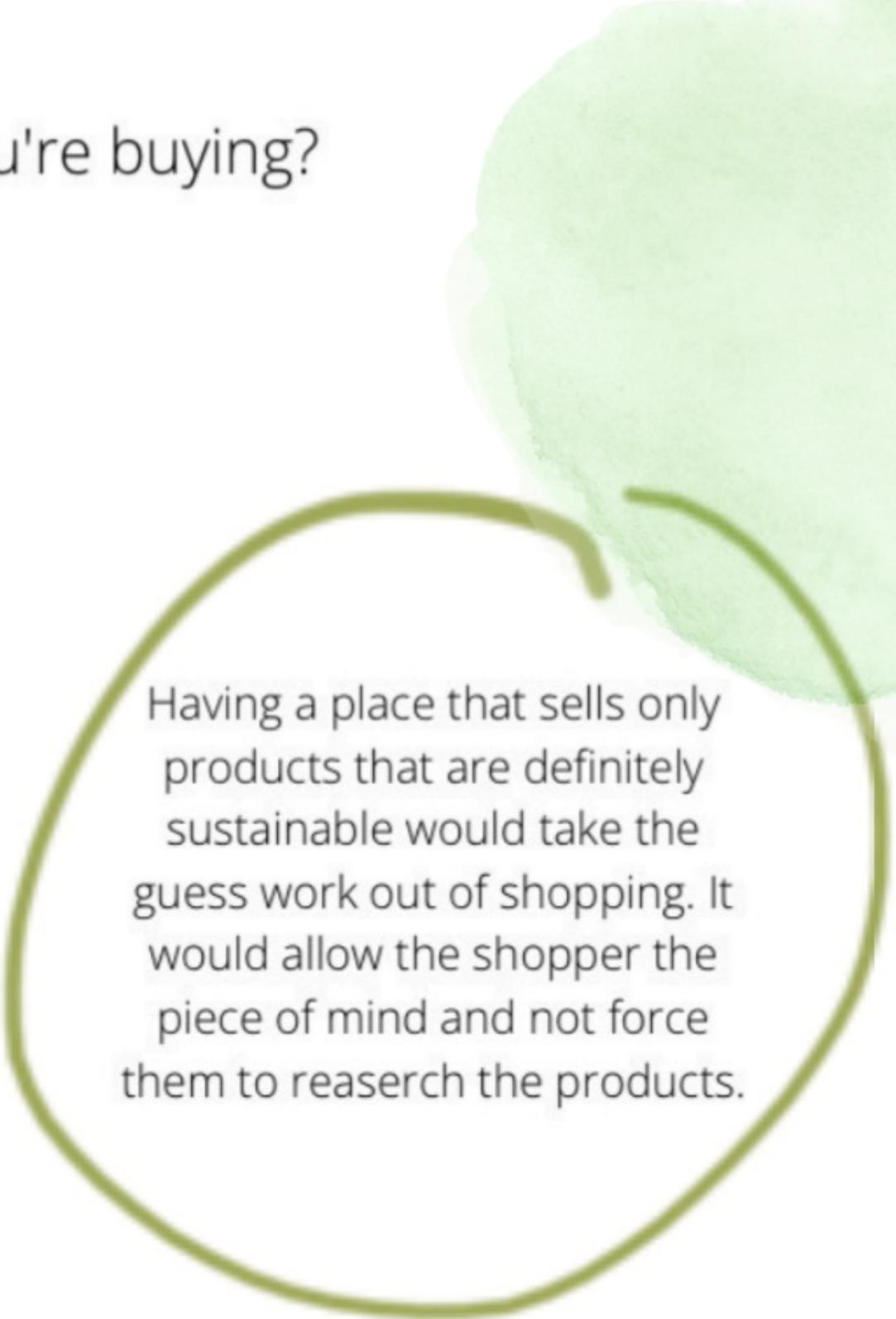
"Companies that are most likely to engage in greenwashing are the dirtiest ones, because dirty companies know they have a bad reputation, so little is lost in making a green claim if the opportunity arises."

"TerraChoice Environmental Marketing issued its second report on the subject, identifying 2,219 products making green claims, an increase of 79% over the company's first report two years earlier. 98% of those products were guilty of greenwashing."

"In 2009 91% of waste was customarily disposed in a landfill, where conditions prevent even a theoretically biodegradable item from degrading quickly."

"Cleaners, along with cosmetics and children's products, are particularly prone to greenwashing."

"There are more than green labels in the United States."



Having a place that sells only products that are definitely sustainable would take the guess work out of shopping. It would allow the shopper the piece of mind and not force them to reaserch the products.

# Literature Review - The Social Context of Recycling

"Results show that people with access to a structured recycling program have much higher levels of recycling than do people lacking such access. Further more, individual attitudes toward the environment affect recycling behavior only in the community with easy access to a structured recycling program. Individual concern about the environment enhances the effect of the recycling program, but does not overcome the barriers presented by lack of access."

"Despite the prevalence of pro-environment attitudes, adoption rates for behaviors such as sorting and separating household waste for recycling have been disappointing"

"when receptacles are nearby and easy to use, people are more likely to recycle"

"Hopper and Nielsen (1991) found that recycling is an altruistic behavior; De Young (1990) concluded that efforts to promote waste reduction and recycling behavior should focus on non monetary motives. While knowledge and motivational factors are important, Vining and Ebreo (1990) found that even though recyclers had more information about recycling than nonrecyclers, "non recyclers were no different in the strength of their belief that protecting the environment was an important reason to recycle.""

People for the most part want to be sustainable or to do good to the environment, but there is a disconnect with the want and the behavior. If you make being sustainable super easy for people, than they are more likely to do it.

# Literature Review - Improving Environmental Awareness Training in Business

"Managing [change] is impossible without employee participation. Participation is impossible without understanding."

"Beyond their basic work responsibilities, all employees need to be provided with the information they need in order to recognize environmental issues and situations, make the right decisions, and take appropriate action."

"In the spirit of 'what gets measured gets done', for all training as for environmental training efforts, an evaluation of the training outcomes should be done to ensure that the information has been transferred to and retained by the employees."

Everyone needs to take small actions that might not seem like much, but they add up to make a difference. Informing people of the issues is super important to getting them to want to make small changes. Also measuring what is being done is a good incentive.

# Literature Review - Science education for environmental awareness: approaches to integrating cognitive and affective domains

"To its critics, science can be dry, abstract, devoid of beauty and lacking in human purpose (Wolpert 1992). Such negative views represent science as essentially disconnected with the world."

"Effective features of learning:

- To foster a sense of interest, enjoyment and excitement in learning in science.
- To include a sense of beauty, respect, reverence and awe in approaches to the environment and understanding our place in the universe."

Science is mostly seen with negative connotations and makes people not enjoy the subject. Getting students interested and applying the information to the "real world" instead of just dry facts, makes it easy for the information to be retained. Also adding emotions to why the information is important and hands on learning will make more students interested and in the long run more students will be open to sustainability.



# Survey Questions

1. What does living a sustainable lifestyle mean to you?
2. Are you interested in living more sustainably?
3. What is preventing you from learning more about living sustainably?
4. Would it be convenient for you if there were a shop that carried only sustainable products?
5. How interested would you be in learning about composting?
6. How interested would you be in learning about a zero-waste lifestyle?
7. What is preventing you from using more sustainable products?
8. Were you aware that a significant amount of products claim that they are sustainable/eco friendly etc. even when they actually aren't?

# Interview Questions

Christine Kendrick- Smart city, PDX coordinator in Portland. Air quality scientist specializing in monitoring, policy, and the public health impacts of air pollution. PhD in environmental science.

- Do you have things in place to convey information to the public? What are they?
- Do you think that these ways are effective?
- Do you see a gap in information about being sustainable/eco friendly, and the community actually implementing those things?
- Do you think if there was an experiential retail shop teaching about living sustainably in your community that it would be popular/helpful?

Emily Melvin- founding an educational farm at a Virginia school providing food and learning opportunities to both students and the community.

- What type of learning opportunities got the students more excited about joining in and learning about the farming?
- What type of hands on activities were students partaking in?
  - Were there other activities for the students besides the planting, growing, harvesting?
- How did you get the community involved in the learning opportunities?

# Project Terms

**Sustainable:** the capacity for the biosphere and human civilization to coexist.

**Eco-Friendly:** not harmful to the environment.

**Eco-Conscious:** marked by or showing concern for the environment.

**Global Warming:** a gradual increase in the overall temperature of the earth's atmosphere generally attributed to the greenhouse effect.

**Climate Change:** a change in global or regional climate patterns produced by the use of fossil fuels

**Zero Waste:** set of principles focused on waste prevention that encourages the redesign of resource life cycles so that all products are reused.

**Recycling:** convert (waste) into reusable material.

**Green Washing:** when products promise more benefits to the environment than they are actually providing.

**Workshop:** a meeting at which a group of people engage in intensive discussion and activity on a particular subject or project.

**Experiential Retail:** A physical retail space offering experiences beyond the traditional retail experience

**Social Learning Theory:** Social learning theory is a theory of learning process and social behavior which proposes that new behaviors can be acquired by observing and imitating others.

# Citations

Deloitte. (October 23, 2018). Shoppers who are willing to pay extra for sustainable products in the United States as of September 2018, by generation\* [Graph]. In Statista. Retrieved September 21, 2020, from <https://0-www-statista-com.library.scad.edu/statistics/936491/shoppers-who-would-pay-more-for-sustainable-products-by-generation-us/>

A.T. Kearney. (May 15, 2017). Share of consumers willing to pay more for environmentally friendly/socially minded personal care brands worldwide in 2017, by generation [Graph]. In Statista. Retrieved September 22, 2020, from <https://0-www-statista-com.library.scad.edu/statistics/808684/attitudes-to-environmentally-friendly-or-socially-minded-personal-care-brands-worldwide/>

Statista Survey. (April 1, 2017). Share of U.S. adults who have heard about the zero-waste movement in 2017, by age group\* [Graph]. In Statista. Retrieved September 22, 2020, from <https://0-www-statista-com.library.scad.edu/statistics/700581/americans-who-have-heard-about-the-zero-waste-movement-united-states-by-age-group/>

Environmental Protection Agency. (June 22, 2015). Number of households with residential food collection and composting in the U.S. in 2013, by key state [Graph]. In Statista. Retrieved September 21, 2020, from <https://0-www-statista-com.library.scad.edu/statistics/503984/residential-composting-programs-and-food-collection-in-the-us-by-state/>

Environmental Protection Agency. (November 16, 2019). Recycling and composting rate of selected products in the United States in 2017 [Graph]. In Statista. Retrieved September 21, 2020, from <https://0-www-statista-com.library.scad.edu/statistics/214270/recycling-rates-of-selected-products-in-the-us/>

Sustainability Center. (2020, June 23). Retrieved September 24, 2020, from <https://www.csun.edu/as/sustainability-center>

Projects. (n.d.). Retrieved September 24, 2020, from <https://www.miufi.org/projects>

Michael Littleddyke. (2008). Science education for environmental awareness: approaches to integrating cognitive and affective domains [PDF File]. Armidale, Australia: Taylor & Francis. Retrieved from file:///C:/Users/HEATHE~1/AppData/Local/Temp/Science%20Education%20for%20EA.pdf

Genevieve M. Perron, Raymond P. Cote', John F. Duffy. (2006). Improving environmental awareness training in business [PDF File]. Journal of Cleaner Production. Retrieved from file:///C:/Users/HEATHE~1/AppData/Local/Temp/Environmental%20Awareness%20Training.pdf

# Citations

Linda Derksen, John Gartrell. (2002). *The Social Context of Recycling* [PDF File]. American Sociological Review. Retrieved from file:///C:/Users/HEATHE~1/AppData/Local/Temp/The\_social\_context\_of\_recycling.pdf

Ken Orvidas. (2010). *Green Washing- Do You Know What You're Buying?* [PDF File]. Environmental Health Perspectives. Retrieved from file:///C:/Users/HEATHE~1/AppData/Local/Temp/Greenwashing%20DYK.pdf

Schmidt, N., Messing, T., Hislop, K., Williams, M., Trautwein, B., Krop, L., . Bailey, O. (2020, August 20). Environmental Defense Center " Education. Advocacy. Legal Action. Protecting the Local Environment Since 1977. Retrieved October 06, 2020, from <https://www.environmentaldefensecenter.org/>

Brock Environmental Center . (2017, March 02). Retrieved October 20, 2020, from <https://www.wbdg.org/additional-resources/case-studies/brock-environmental-center>

Jett, M. (2011, August 29). DuPont Environmental Education Center / GWWO Architects. Retrieved October 20, 2020, from [https://www.archdaily.com/164484/dupont-environmental-education-center-gwwo-architects?ad\\_source=search](https://www.archdaily.com/164484/dupont-environmental-education-center-gwwo-architects?ad_source=search)

Archive:MejuriLA. (n.d.). Retrieved October 21, 2020, from <https://dsstudio.ca/archivemejurila>

U.S. Census Bureau QuickFacts: Los Angeles County, California. (n.d.). Retrieved October 29, 2020, from <https://www.census.gov/quickfacts/losangelescountycalifornia>

Los Angeles County. (n.d.). Retrieved October 29, 2020, from <https://datacommons.org/place/geoid/06037>

TOUR. (n.d.). Retrieved October 29, 2020, from <https://www.6960centinela.com/tour>

Blue Bin Collection (Recycling). (n.d.). Retrieved October 29, 2020, from [https://www.lacitysan.org/san/faces/home/portal/s-lsh-wwd/s-lsh-wwd-s/s-lsh-wwd-s-r/s-lsh-wwd-s-r-rybb?\\_afLoop=10438862370038388](https://www.lacitysan.org/san/faces/home/portal/s-lsh-wwd/s-lsh-wwd-s/s-lsh-wwd-s-r/s-lsh-wwd-s-r-rybb?_afLoop=10438862370038388)

Mandatory Recycling: California, USA: Eco-Cycle Solutions Hub. (n.d.). Retrieved October 29, 2020, from <https://www.ecocyclesolutionshub.org/location/mandatory-recycling-california-usa/>

# Citations

Protocols for Retail Establishments Opening for In-person Shopping: Appendix B. (n.d.). Retrieved October 29, 2020, from <http://publichealth.lacounty.gov/media/coronavirus/reopening-la.htm>



# Phase I

Inspirational Precedent  
Studies & Client

# Inspirational Case Study

## California State University, Northridge (CSUN): Sustainability Center

The building is LEED certified platinum and serves as one of the campuses recycle locations, administrative offices for the Institute of Sustainability and is also a space for other educational programs for the students.



# Inspirational Case Study

## The Michigan Urban Farming Initiative

"Nonprofit organization that seeks to engage members of the community in sustainable agriculture." The main building is used as administrative offices, a multi purpose space for different programs, and a storefront/kitchen to sell products from the garden/farm. The space also includes a shipping container apartment for interns to stay in throughout the year. Also on property is the garden/farm and a children's sensory garden.



# Client

"The Environmental Defense Center protects and enhances the environment of California's south central coast through education, advocacy, and legal action."

- 1% for the planet recipient
- Budget is \$3.1 Million



**environmental**  
DEFENSE CENTER

906 Garden Street, Santa Barbara, CA 93101 | Phone: 805 963-1622



# *Phase II*

Project Definition

# Personas

## The Smith Family

The Smiths have two young rambunctious children. They know that living sustainably is important, but with two young children they make a lot of waste. While they do have some sustainable practices in place they are looking for more that would fit their lifestyle.



## David Miller

David finds it difficult to be sustainable considering his fast paced lifestyle of being in a band and constantly traveling for work. He would like to find a few small ways to be sustainable without being a hassle, but he doesn't know where or how to get started.



## Rachel Williams

Rachel lives a full zero waste lifestyle. Being sustainable and not producing waste is super important to her. While she already lives a very sustainable lifestyle, she finds it sometimes hard to find sustainable products.



## Phyllis Brown

Phyllis tries to do her part in living sustainably so that her grand children can have a better future. While she isn't capable of making some sustainable switches, she does shop at the farmers market, use reusable bags and recycles when possible.



# Empathy Map

Positive/ Optimistic Views

Negative Views/ Misconceptions

Other

Wanting to live more sustainably

I wish people cared about the earth as much as they do about who created it.

No intelligent species would destroy their own environment.

Its easier not to care.

Every time you spend money, you are casting a vote for the kind of world you want

There is no such thing as "away". When we throw anything away, it must go somewhere.

Small acts when multiplied by millions of people can transform the world

Think/Feel

People not washing out containers for recycling

People using reusable grocery bags

Using what you have at home first before going out and buying new things

Killing the earth is killing ourselves

It's a little hard to make some of the bigger switches

People using reusable water bottles

People starting gardens during quarentine.

Have to watch out for greenwashing

Have to be just a little bit more conscious of things

See

Sometimes isn't as easthetic as social media shows

Pain -

You have to be vegan

You don't have to go out and buy new sustainable products to be sustainable/ live zero waste.

The idea of zero waste is to reduce the total amount of waste created whether it is from your home or from certain industries.

Living sustainably is too hard

Living sustainably is too expensive

It is crazy to only make a jars worth of waste in 2 years

Helping the planet

Living sustainably is cheaper

You don't have to go completely zero waste and change your lifestyle to do good for the planet

Being eco-friendly means a lower quality of life

This isn't as hard as I thought

I don't want to do all of that because I don't want to be a hippie

I don't want to be seen and judged as a "YSCO Girl"

Ones persons actions can't make a difference

Living sustainabl y normally means less clutter in your home

Can lead to a healthier lifestyle

Use of more natural products and less chemicals

Its just a phase

Say/Do

You have to be perfect to be sustainable

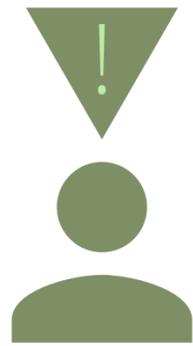
There is no planet B.

The corporations should be making changes, not consumers

Hear

Gain +

# User Journey



Awareness

Consideration

Participate

Purchase

Advocate

Guest Experience

Visual representations of what is happening to the earth and how people affect it.

The ability to evaluate and visually see how you are contributing to affecting the environment

The ability to learn about living sustainably through interaction.

The ability to purchase any material/product one might need to live a more sustainable lifestyle.

Advocate through social media.

Video and physical representations of statistics and facts

Putting in general information about how they live onto a screen to see the affects

Done through demonstrations and other interactive activities

Browse through products you didn't know existed and have the ability to refill products as well.

The ability to take pictures for social media with an "instagram wall" and other props to get others excited.

The image features a central sunburst graphic composed of numerous thin, dark green lines radiating from a central point. The sunburst is set against a background of light green watercolor washes. On the left and right sides, there are abstract, hand-drawn shapes in a dark green outline, resembling stylized trees or architectural forms. The overall style is artistic and hand-drawn.

# *Phase III*

Precedent Studies

# Case Study

## Brock Environmental Center

Location: Virginia Beach, Virginia, United States

Project Size: 10,518sqft

Architect: SmithGroupJJR

Year: 2015

"The Brock Environmental Center serves as the hub for the Chesapeake Bay Foundation's (CBF) Hampton Road office and supports their education, outreach, advocacy, and restoration initiatives, which is to protect one of the nation's most valuable and threatened natural resources — the Chesapeake Bay"

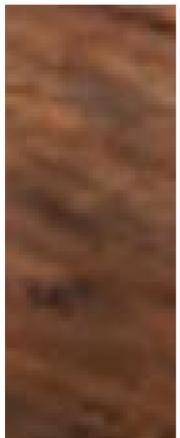
Dark  
Warm  
Toned  
Wood



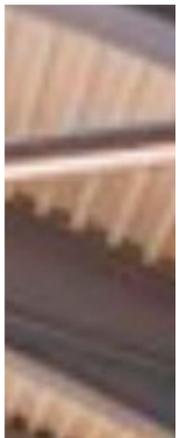
Blue  
Paint



Dark Brown  
Wood



Corrugated  
Metal &  
Open  
Beams



Yellow  
Paint



# Case Study: Brock Environmental Center



- Boundaries
- Primary Circulation
- Secondary Circulation
- Public Space - About 85%
- Private Space - About 10%
- Semi-Private Space - About 5%
- Outdoor Space

The predominant surfaces of the space are dark woods with bright, light paint, and exposed corrugated metal roofing, beams and duct work. The furniture is arranged in a breathable, uncluttered layout.



- Grid Organization
- Adjacent Spaces
- Majority of Sun Light

# Case Study

## DuPont Environmental Education Center

Location: Wilmington, Delaware, United States

Project Size: 149,618.35sqft

Architect: GWWO Architects

Year: 2009

"The new DuPont Environmental Education Center is part of efforts to restore marshlands along the Christina River in Wilmington, Delaware. It houses exhibits, classrooms and offices for nature education and related recreation activities, as well as a community meeting and gathering space."



Open  
Cork Wall Coverings

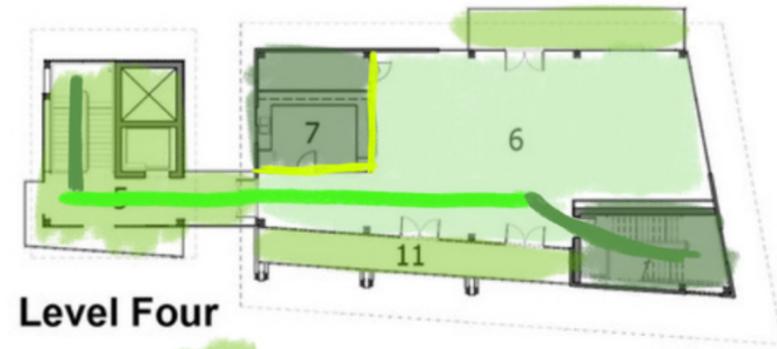
Beams & Duct Work

Grey Carpet

Light Warm Toned Wood



# Case Study: DuPont Environmental Education Center

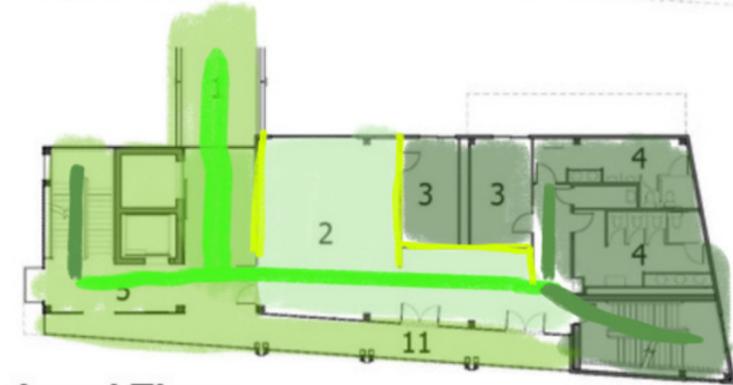


- 1 Bridge
- 2 Lobby / Exhibits
- 3 Offices
- 4 Restrooms
- 5 Circulation Tower
- 6 Multipurpose
- 7 Catering
- 8 Mechanical
- 9 Storage
- 10 Classroom
- 11 Viewing Deck
- 12 Loading

## Floor Plans



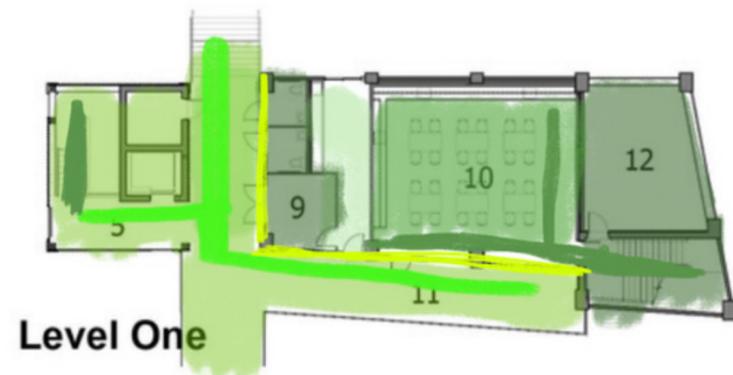
- Primary Circulation
- Secondary Circulation
- Public Space - About 20%
- Private Space - About 70%
- Semi-Private Space - About 10%
- Outdoor Space
- Boundaries



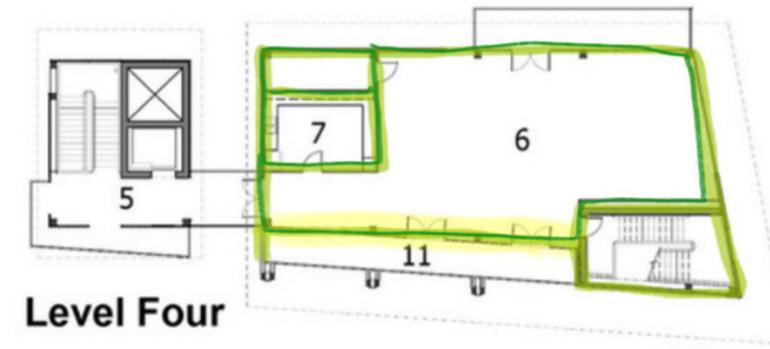
**Level Three**



**Level Two**



**Level One**

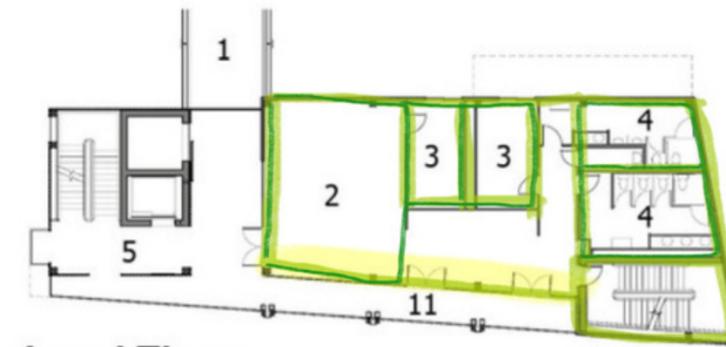


- 1 Bridge
- 2 Lobby / Exhibits
- 3 Offices
- 4 Restrooms
- 5 Circulation Tower
- 6 Multipurpose
- 7 Catering
- 8 Mechanical
- 9 Storage
- 10 Classroom
- 11 Viewing Deck
- 12 Loading

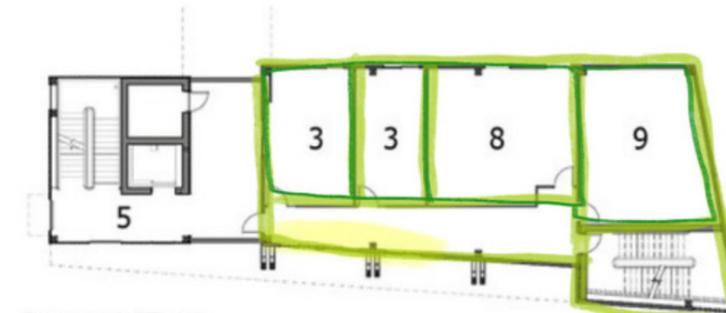
## Floor Plans



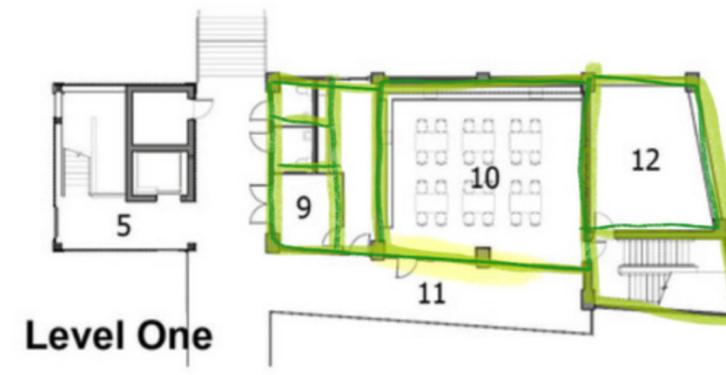
- Grid Organization
- Adjacent Spaces
- Majority of Sun Light



**Level Three**



**Level Two**



**Level One**

The predominant surfaces of the space are woods and cork, with large glass windows to the outside.

# Case Study

## Mejuri LA Flagship Store

Location: Los Angeles, California, United States

Project Size: 700sqft

Architect: DS Studio

Year: 2019

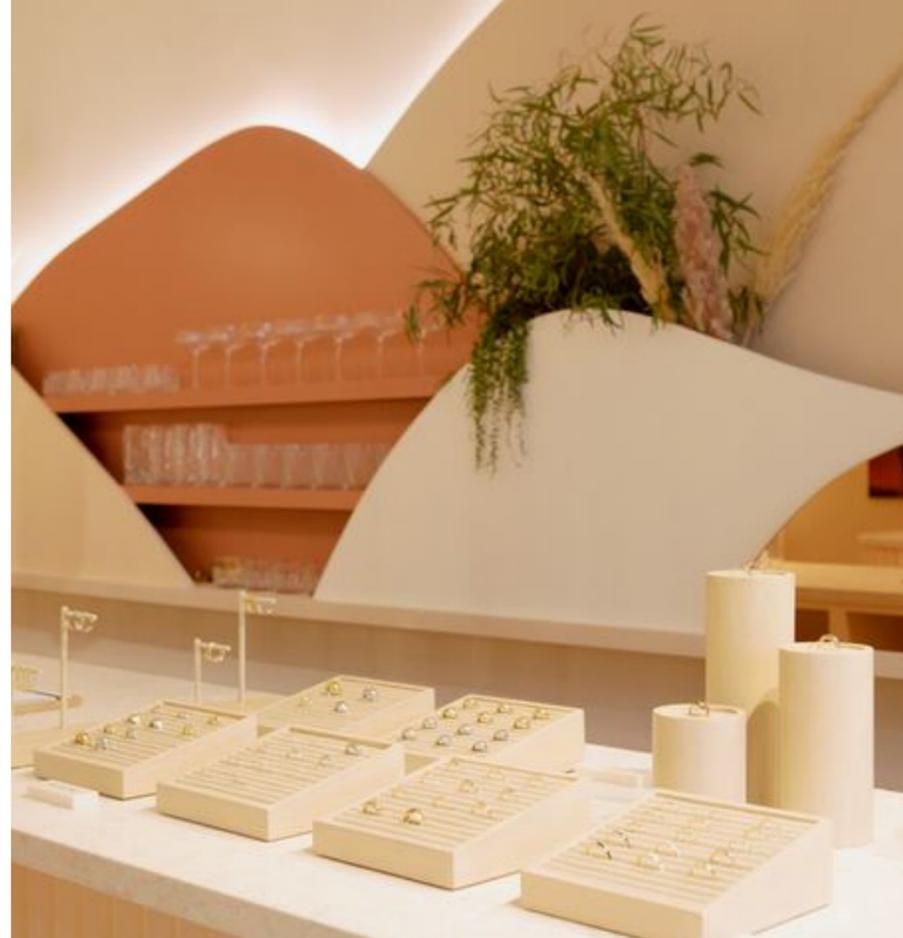
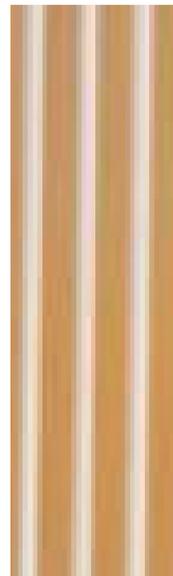
"Mejuri is a jewelry store, where products can be explored in a relaxed intimate bar or living room setting. The overall design acts as a neutral backdrop to elevate the shimmer of the jewelry on display. This location also has a space where you can get your ears pierced."

Sheer  
Champagne  
Curtain

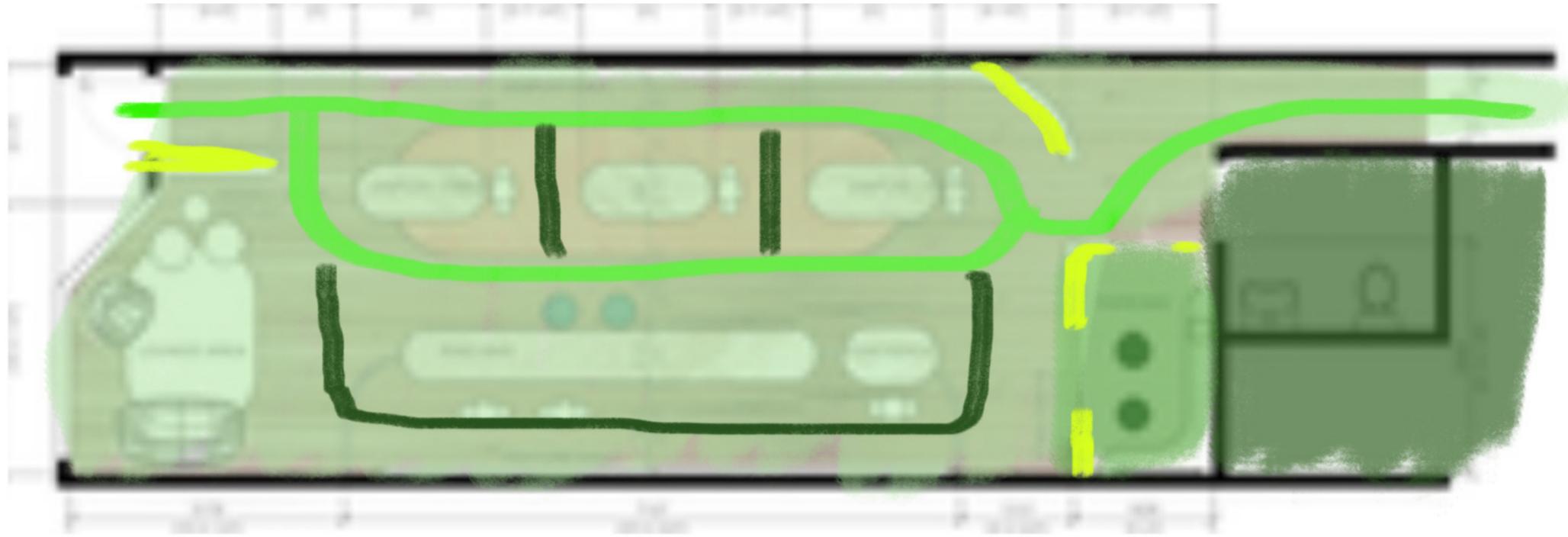
Peach  
Orange  
Paint

Tan Paint

Corrugated  
Wood  
Siding

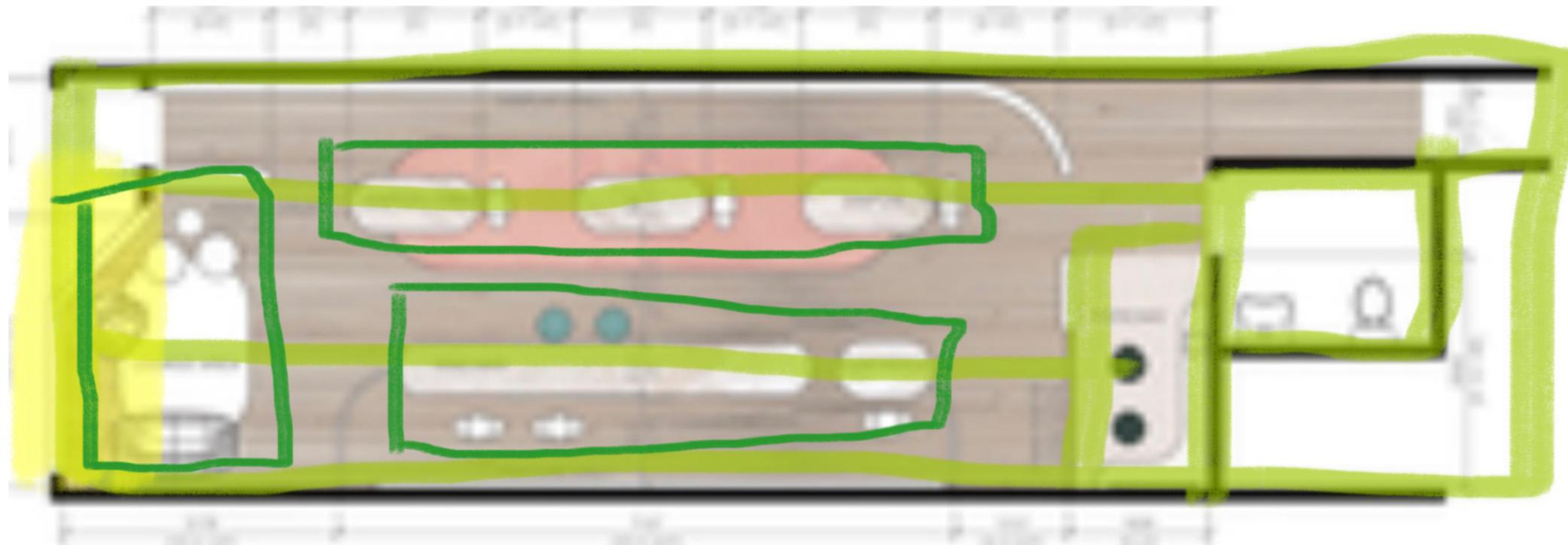


# Case Study mejuri LA Flagship Store



- Boundaries
- Primary Circulation
- Secondary Circulation
- Public Space - About 85%
- Private Space - About 10%
- Semi-Private Space - About 5%

The predominant surfaces of the space are bright, light paint, light wood soft materials and metal accents. The furniture is arranged in a breathable, uncluttered layout.



- Linear Organization
- Spaces Linked By Common Spaces
- Majority of Sun Light

The image features a central sunburst graphic composed of numerous thin, dark green lines radiating from a central point. This sunburst is set against a background of light green watercolor washes. On the left and right sides, there are dark green line drawings of stylized trees or foliage. The overall aesthetic is clean, modern, and organic.

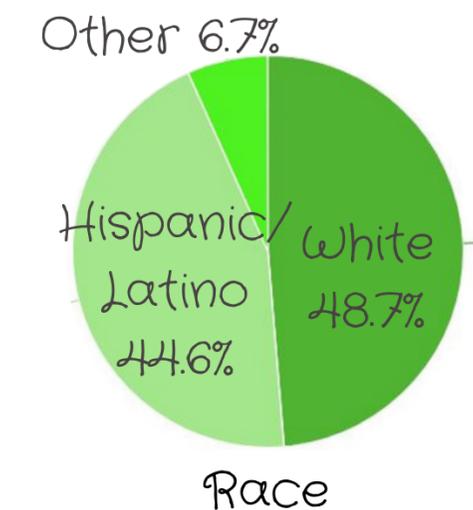
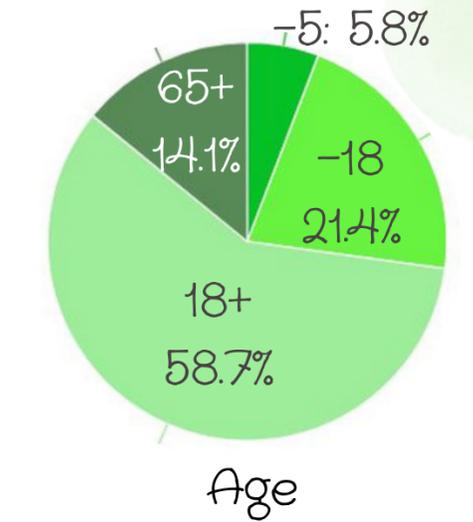
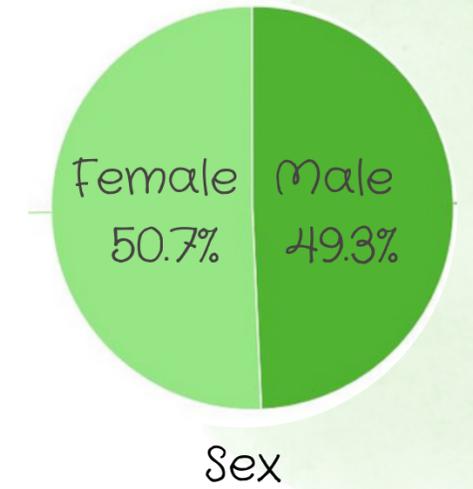
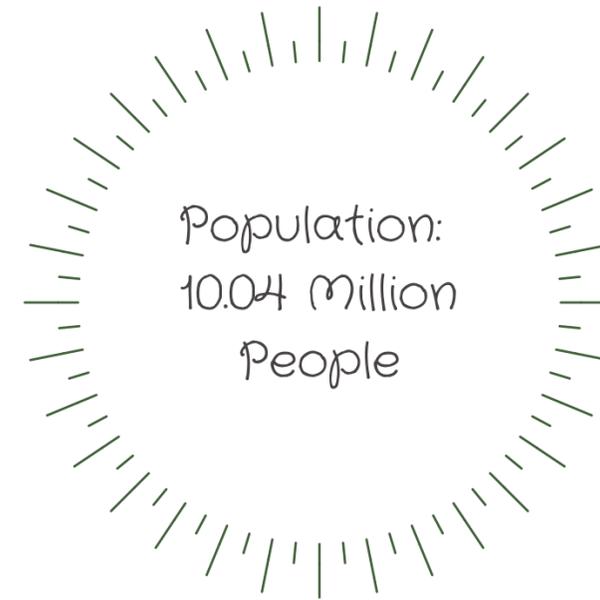
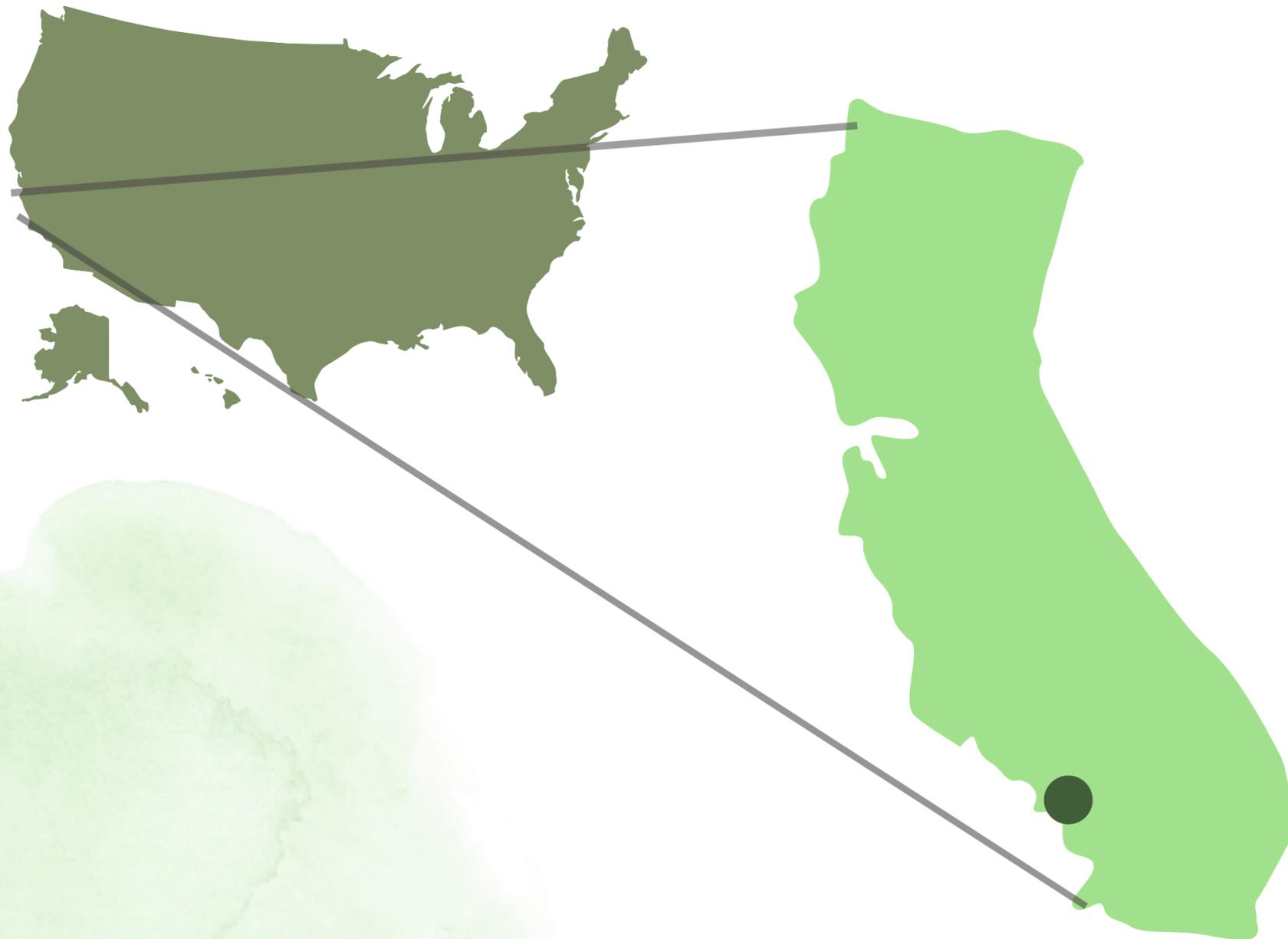
# *Phase III*

Site Analysis

# Site in a Larger Context

"The City of Los Angeles currently operates the largest residential curbside recycling program in the United States, with 750,000 households every week."

LA Sanitation recycles all plastics numbered 1-7.



# Local Laws

## Recycling:

### AB 341- Mandatory Commercial Recycling in California

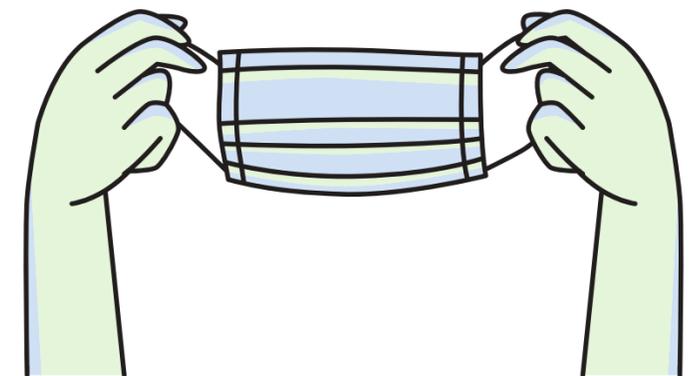
- As of July 1, 2012
- Businesses that are subscribed to waste collection are required to have a recycling program
- About 250,000 businesses and 220,000 multi-family dwellings are affected by this
  - Which is about 75% of the commercial waste generated in California.
- "The law defines business as "any commercial or public entity that generates four or more cubic yards of commercial solid waste per week..."

City of Los Angeles has a diversion goal of 90% by 2025 and Zero Waste by 2035 (95% diversion).

## COVID-19:

### County of Los Angeles Department of Public Health Order of the Health Officer Protocols for Retail Establishments Opening for In-person Shopping: Appendix B

- Maximum Occupancy for retail establishments are limited to 25%
  - Workplace policies and practices to protect employee health
  - Measures to ensure physical distancing
  - Measures to ensure infection control
  - Communication with employees and the public
  - Measures to ensure equitable access to critical services.
- These five key areas must be addressed as your facility develops any reopening protocols.



# Site: Area Characteristic Assessment & Transportation

6990 S Centinela Ave  
Los Angeles, California 90230

This building is located on the edge of South Bay, and Westside Cities, between Inglewood and Santa Monica, part of Los Angeles County. It is down the street from highway 1-405 and State Route 90, and only a few minutes from LAX.

Located within the area are two shopping malls, multiple apartment buildings, three parks, and in close proximity to YouTube, Yahoo, Google, and Honey's campuses.

Close by are Loyola Marymount University and West Los Angeles College.

There are only four zero-waste/ refill shops all of Los Angeles County. The closest shop is about four miles away.

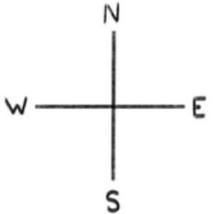


# Site Views



Looking out from the building

Looking in towards the building

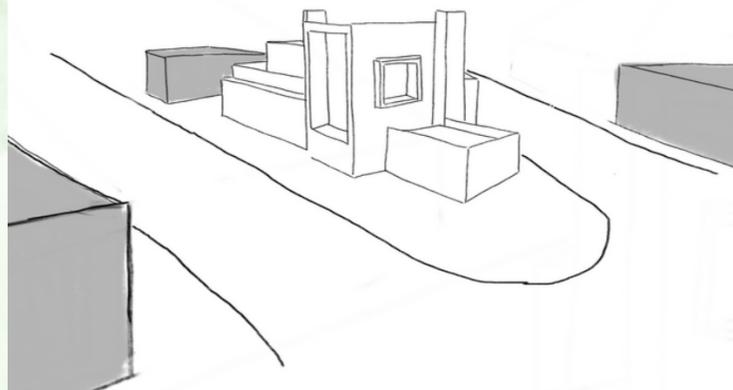


# Site Organization & Surrounding Circulation

The site is located on the corner of Mesmer Ave and Centinela Ave. The building is across the street from the Acura Dealership and the Honey Training Center. The building also has a parking lot next to it as well as parking spots underneath it, therefore the building isn't up against any other buildings.

The building is surrounded by roads, parking lots and a few buildings that are about the same height, but this building has a mezzanine on level 3 that makes it just a bit taller.

The main entrance of the space is on Centinela Ave, which has a few steps up or a small ramp into the space. The building also has two emergency stairwells that let out onto Mesmer Ave. There is also deck space on the corner of the building.



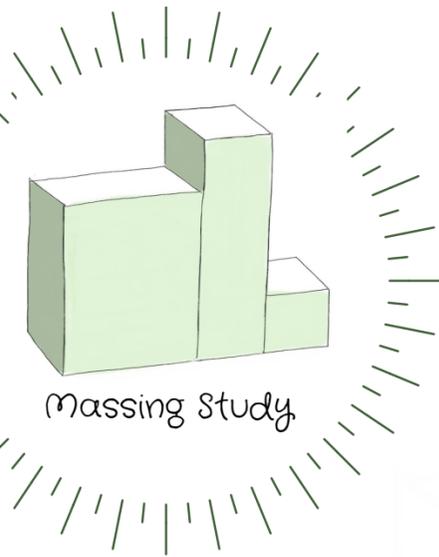
The image features a central sunburst graphic composed of numerous thin, dark green lines radiating from a central point. The sunburst is set against a background of light green watercolor washes. On the left and right sides, there are abstract, hand-drawn shapes in a dark green outline, resembling stylized buildings or architectural elements. The overall style is artistic and hand-drawn.

# *Phase III*

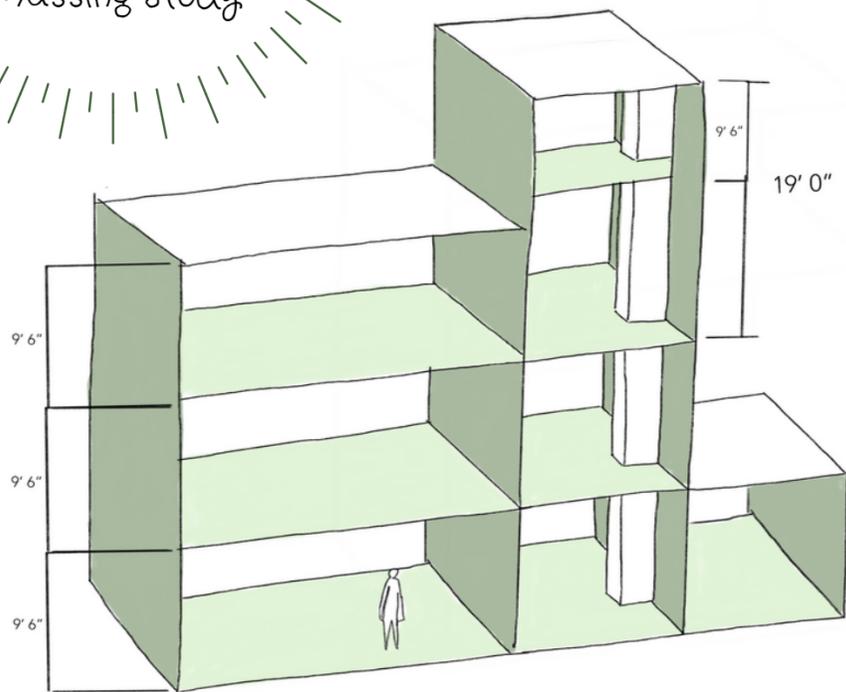
Building Analysis

# Space Volumes & Massing

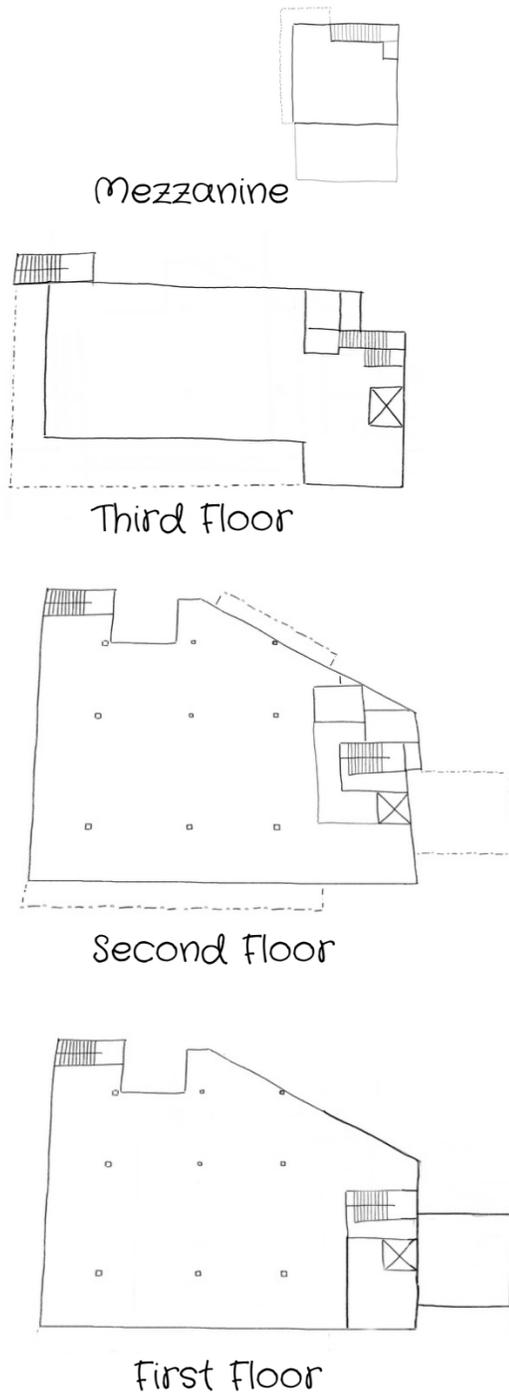
The building has three floors and a mezzanine. The first floor is mostly the parking garage and the lobby. The second floor has a column grid but also has walls of large windows and access to balconies. The third floor also has access to balcony space, but doesn't have a column grid. The third floor also has an area that has a double height ceiling. The mezzanine is small and only has access from a set of interior stairs, but it has access to the roof.



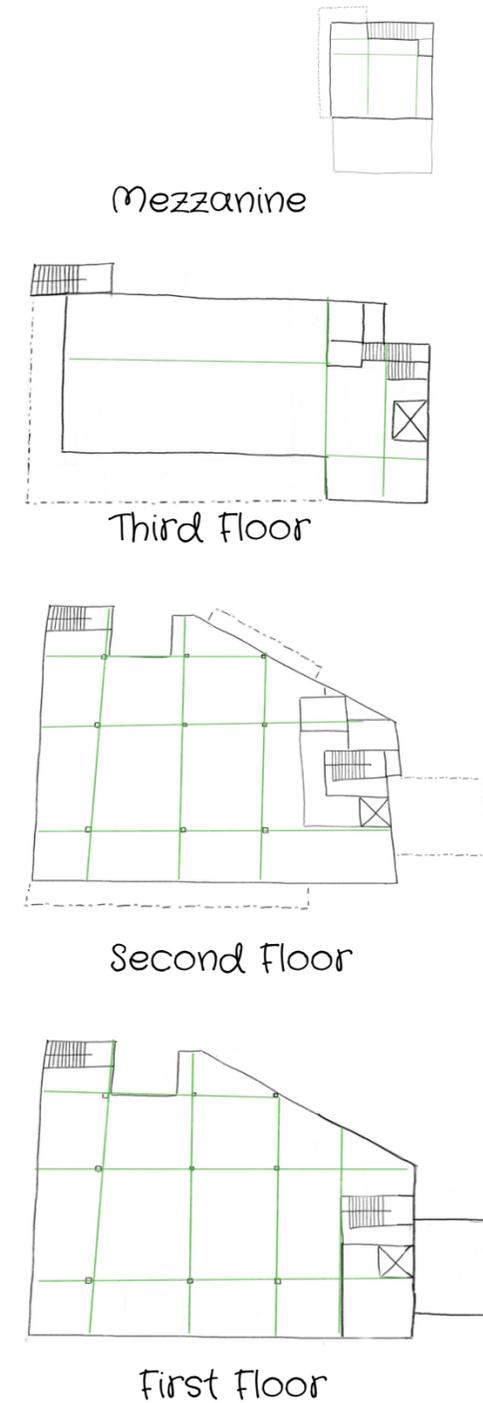
Massing Study



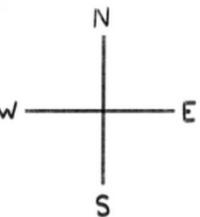
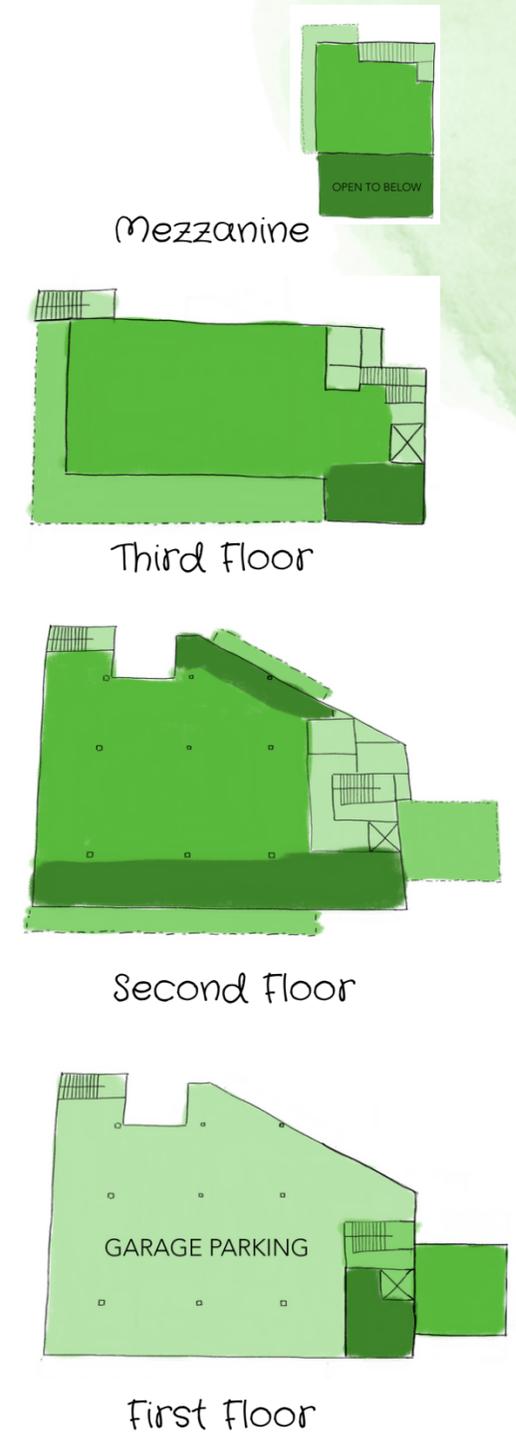
Floor Plans



Elements of Design

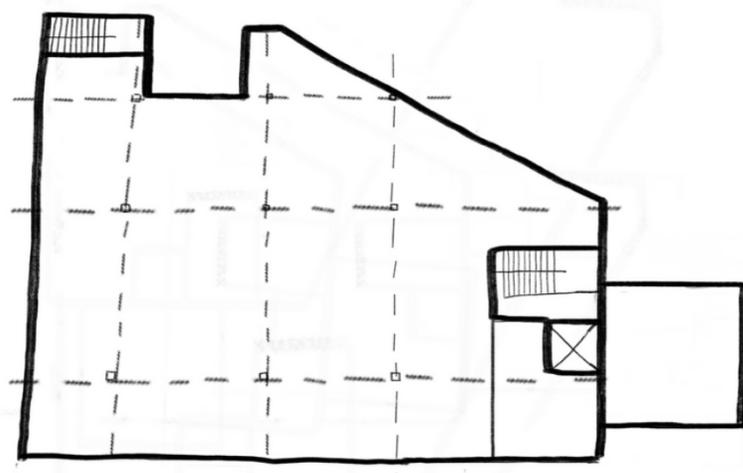
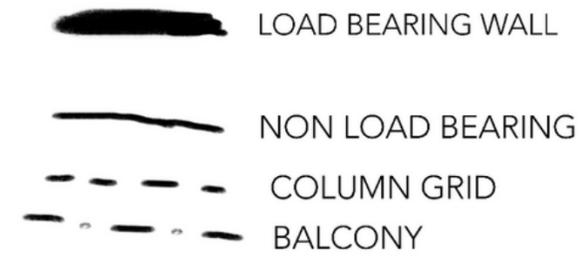


Hierarchy of Spaces

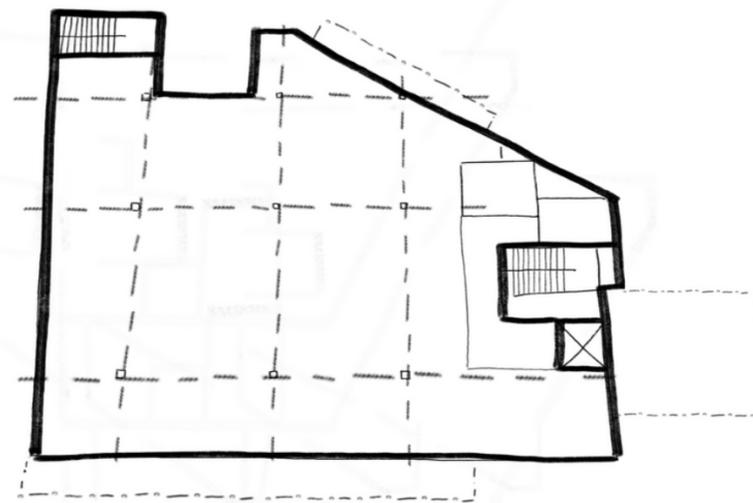


# Structural Systems

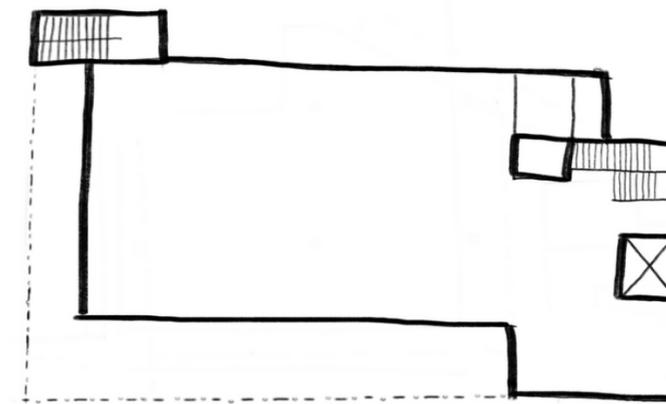
The first and second floors have a column grid and the third floor and mezzanine do not. All of the exterior walls and walls around the fire stairs are load bearing.



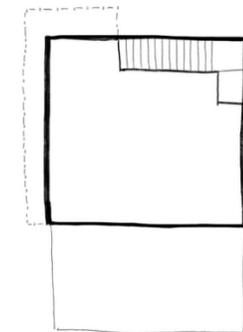
First Floor



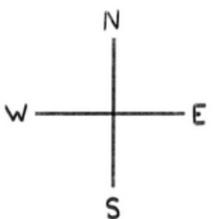
Second Floor



Third Floor



Mezzanine



# Unique Building Features & Materiality

## Building Features:

- Approximately 13,000SF
- Three stories and a mezzanine
- 22 Parking spots- including electric charging stations
- Double height ceilings
- Stainless steel handrails
- 800SF patio
- Rooftop deck
- Balconies on each floor
- Western Window System Sliders- pre-wired for motorized window coverings:
  - Dual pane
  - Triple coated low-E glass
    - helps reduce heat transfer and reduces heating and cooling costs
- Thermal modified ash hardwood flooring
  - Natural, non-toxic process of changing the make-up by heating it
  - Naturally durable
  - Permanently resistant to water, insects and decay
- 30KW photovoltaic solar system ready
  - Back up battery storage and off grid capability
- Custom LED dim-able lighting throughout
- Schindler Stainless Steel Commercial 3,500lb Elevator

## Existing Materiality



Exposed Columns and Supports



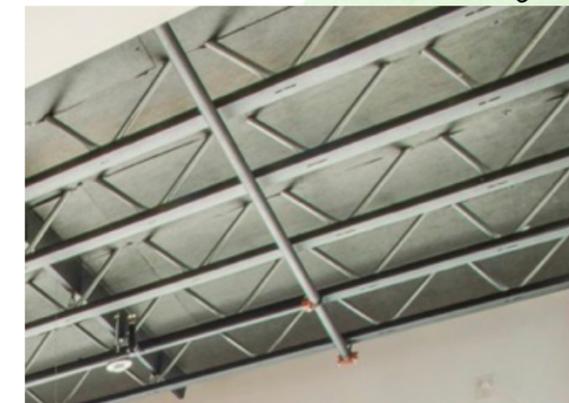
Stainless Steel Railing



Thermal Modified Ash Hardwood



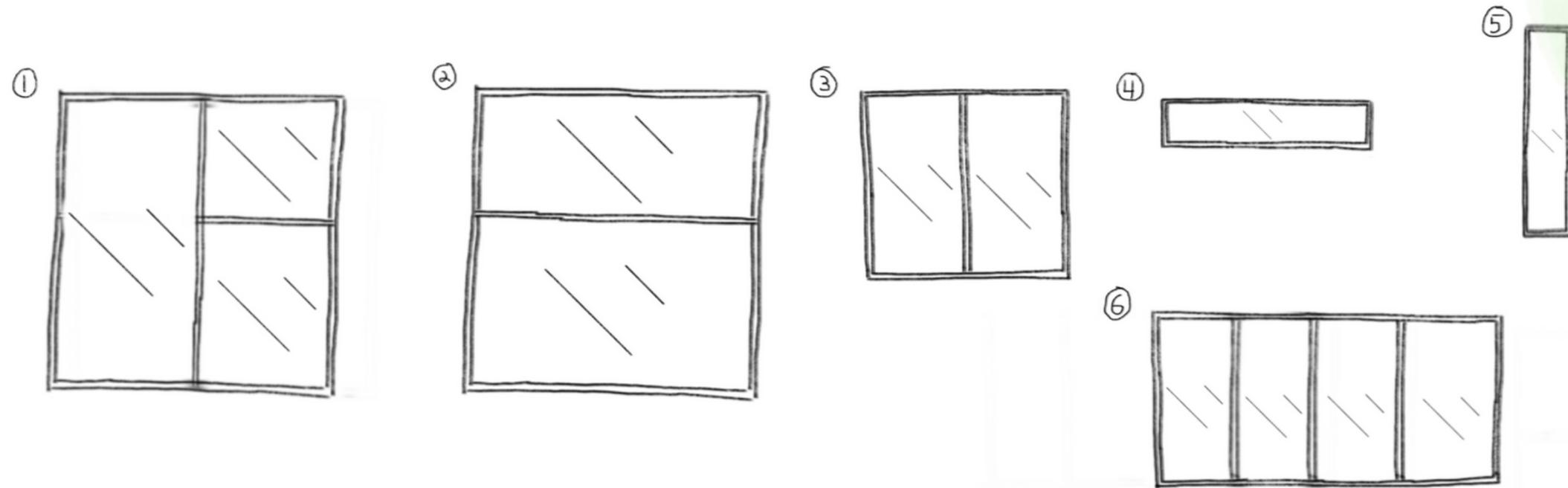
Large Western Window Systems



Some Exposed Ceiling

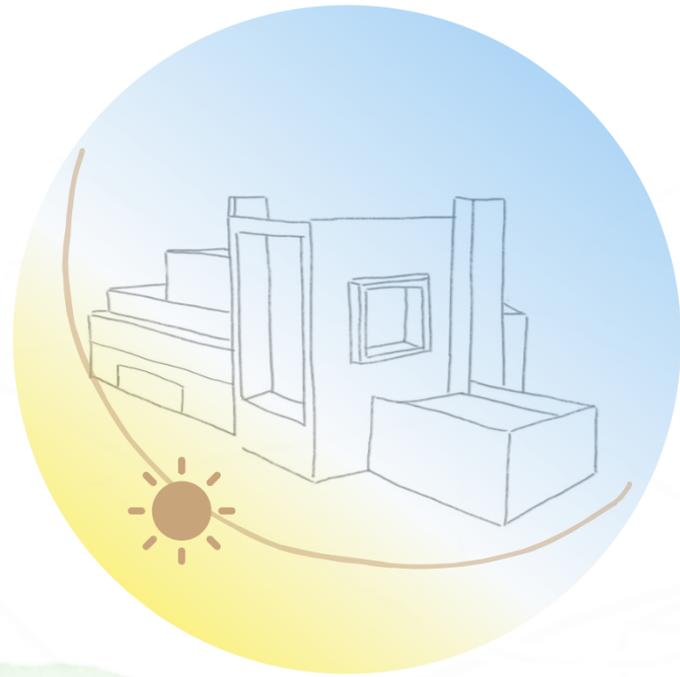
# Window Size & Modularity

There are six different styles of windows in this building. Styles one and two are floor to ceiling and are only located on the south side of the building. Styles three and six are sliding glass doors, and styles four and five are located to let light in but not necessarily show of the views because they are mostly located on the back and sides of the building.

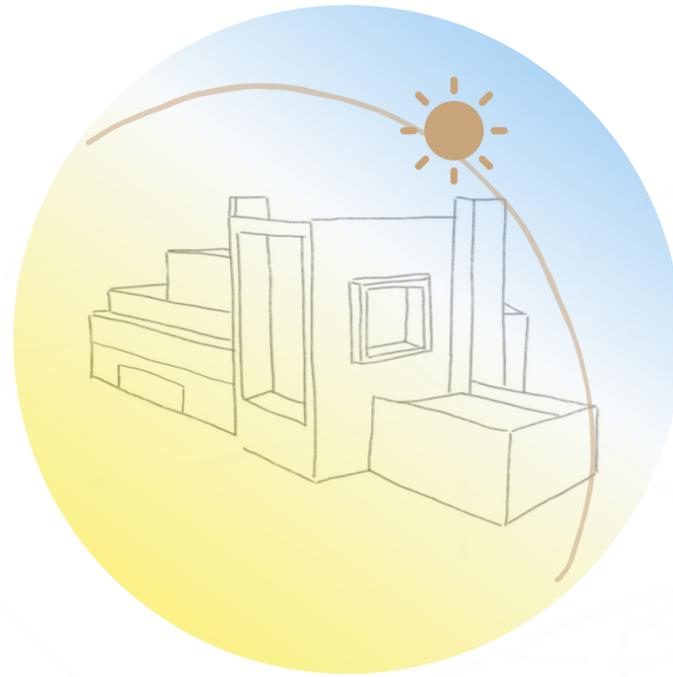


# Natural Light

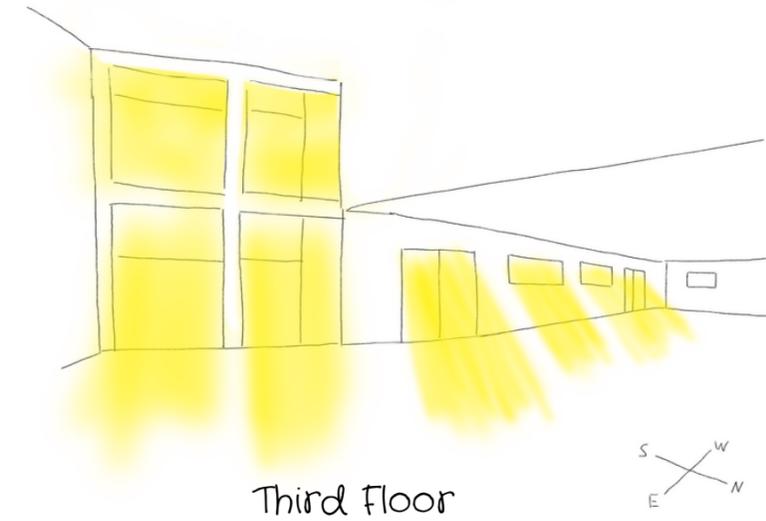
The building gets lots of natural light through its many large windows. It also gets lots of light because there aren't any large buildings in the immediate vicinity. The majority of windows in the space are on the south side of the building which allows for bright light to enter into the space. However the windows are dual pane, triple coated low- $\epsilon$  glass which prevents the space from gaining too much heat.



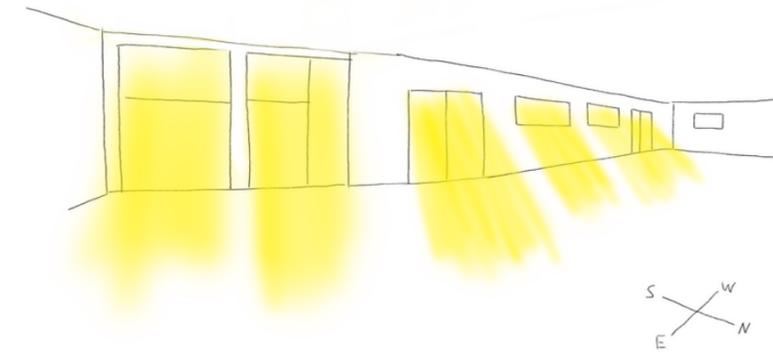
Winter



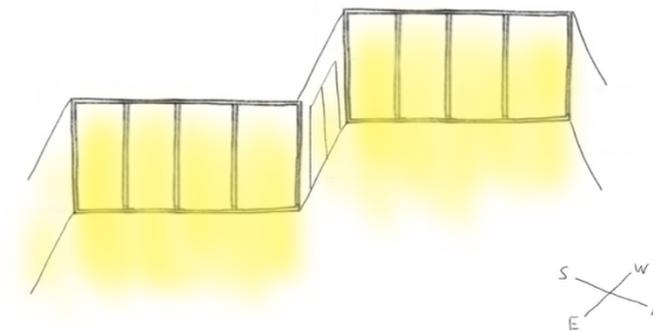
Summer



Third Floor



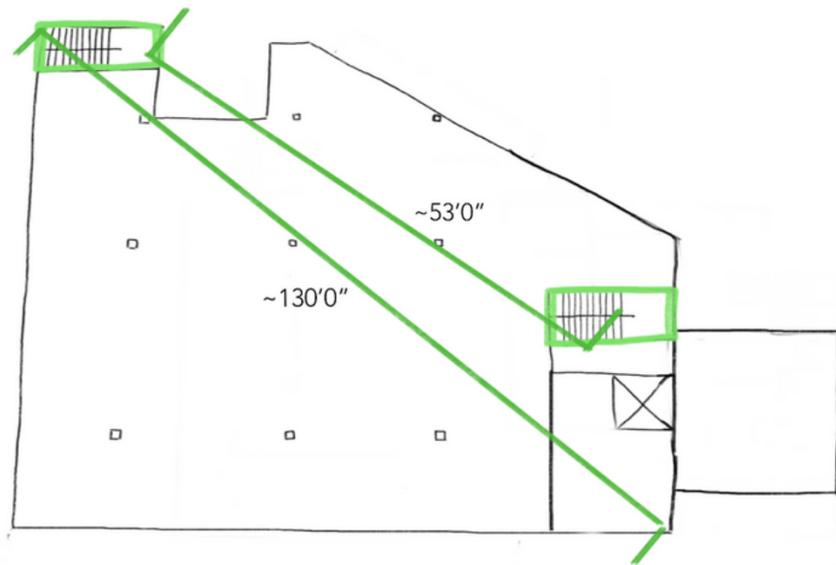
Second Floor



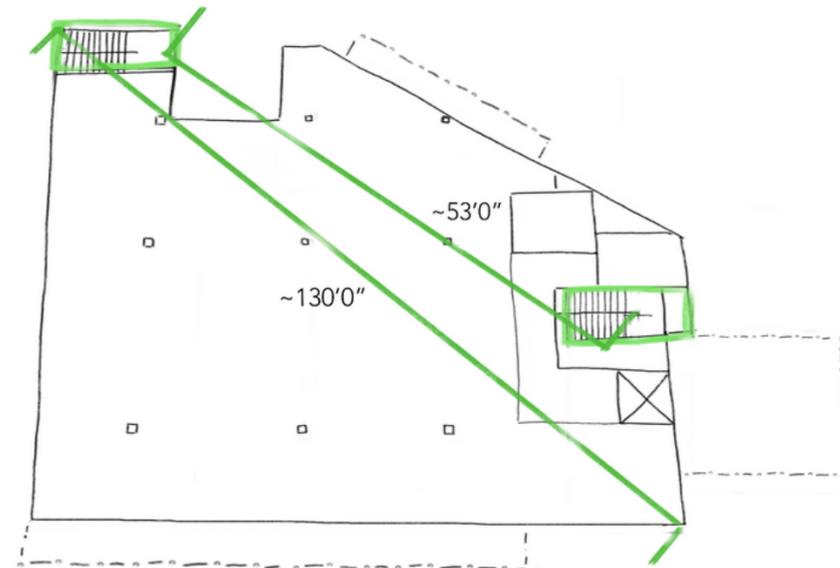
First Floor

# Fire Safety

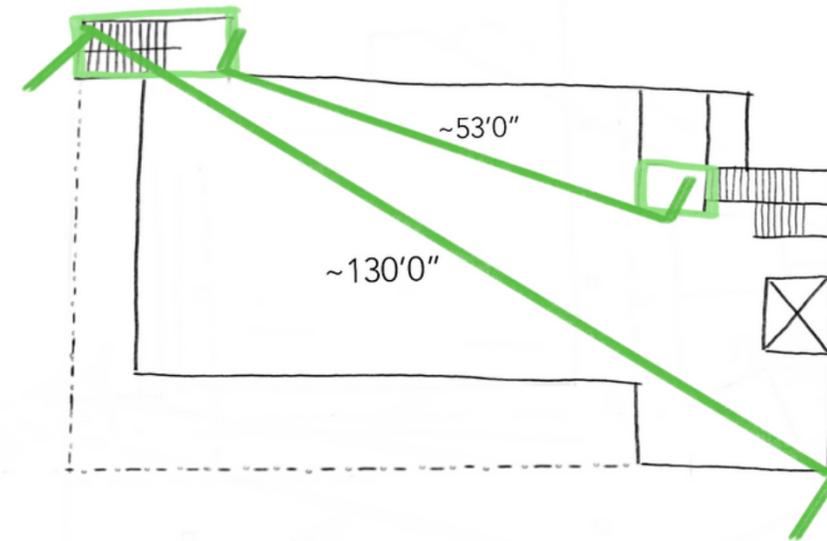
The furthest distance from one corner to another is about 130 feet. The distance between fire stairs is about 53 feet, which is well within fire safety codes. The building has 2 fire stairwells, and is equipped with automatic sprinklers. The mezzanine only has one entrance/exit, which is not apart of the fire stairs, but it is open to the floor below.



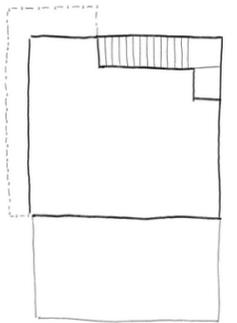
First Floor



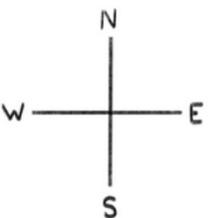
Second Floor

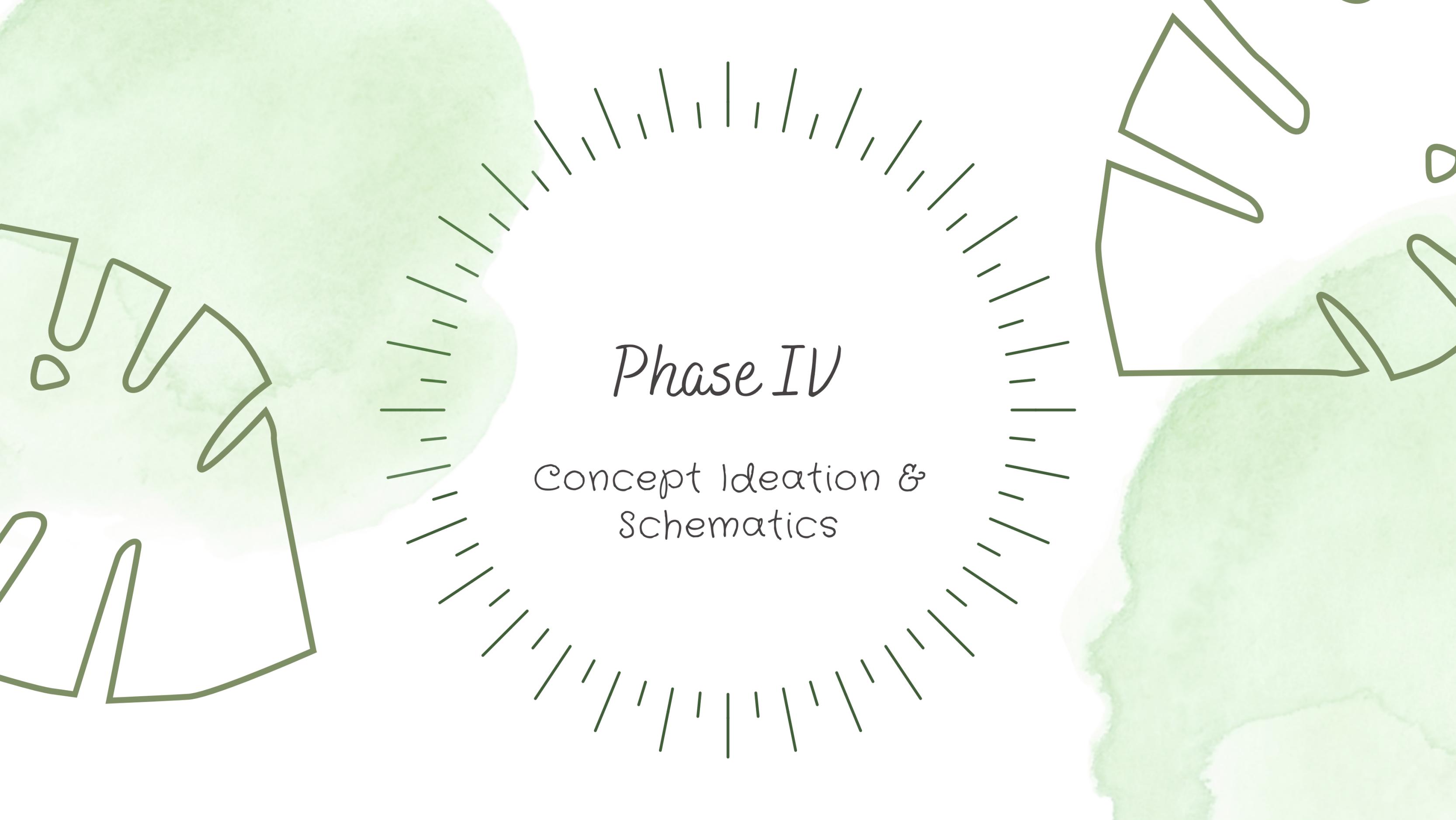


Third Floor



Mezzanine



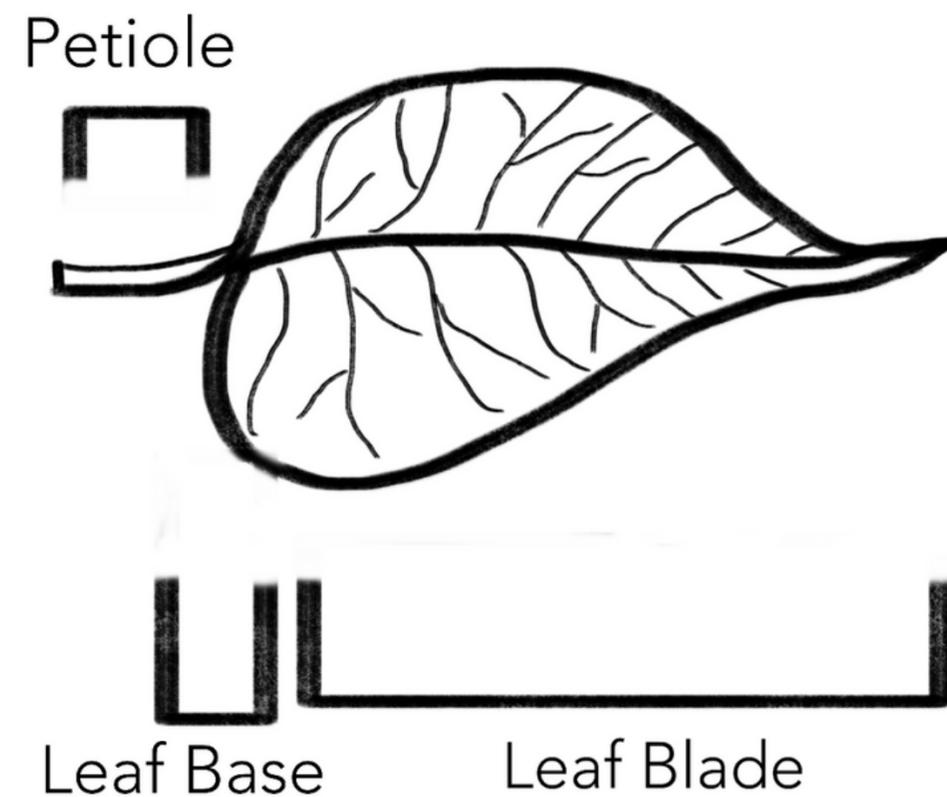
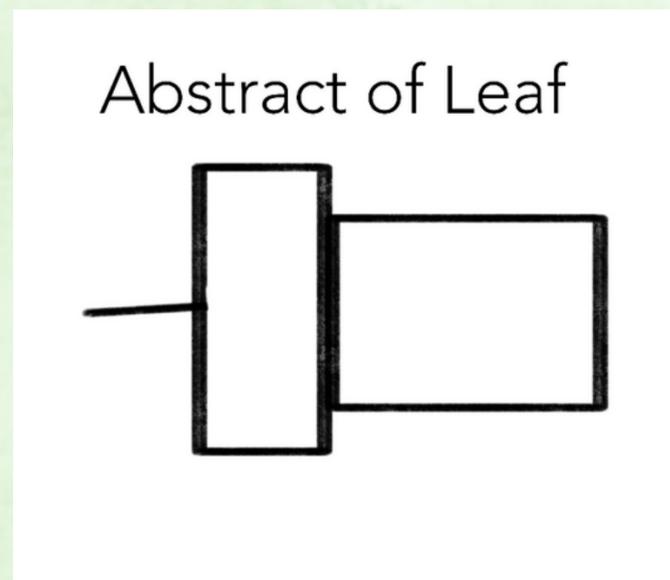
The image features a central sunburst graphic composed of numerous thin, dark green lines radiating from a central point. The sunburst is set against a background of light green watercolor washes. To the left and right of the sunburst are abstract, hand-drawn shapes in a dark green outline style. On the left, there are several overlapping, angular shapes that resemble stylized leaves or a jagged mountain range. On the right, there are more angular shapes, some resembling triangles or abstract architectural forms. The overall style is artistic and hand-drawn.

# Phase IV

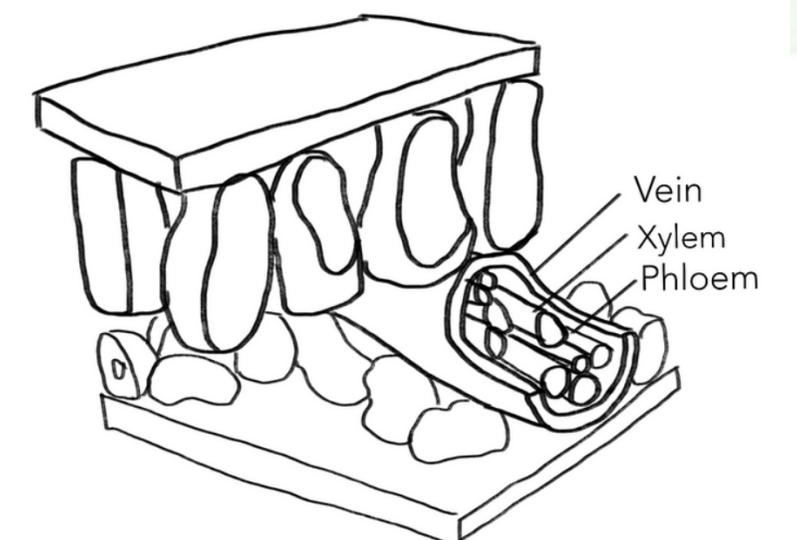
Concept Ideation &  
Schematics

# The structure of a leaf

is made up of three main parts, the petiole, the leaf base, and the leaf blade. The petiole provides SUPPORT to the leaf and TRANSPORTS water and nutrients. The leaf base helps ATTACH the leaf to the stem and the leaf blade helps the plant PREPARE their food through photosynthesis.



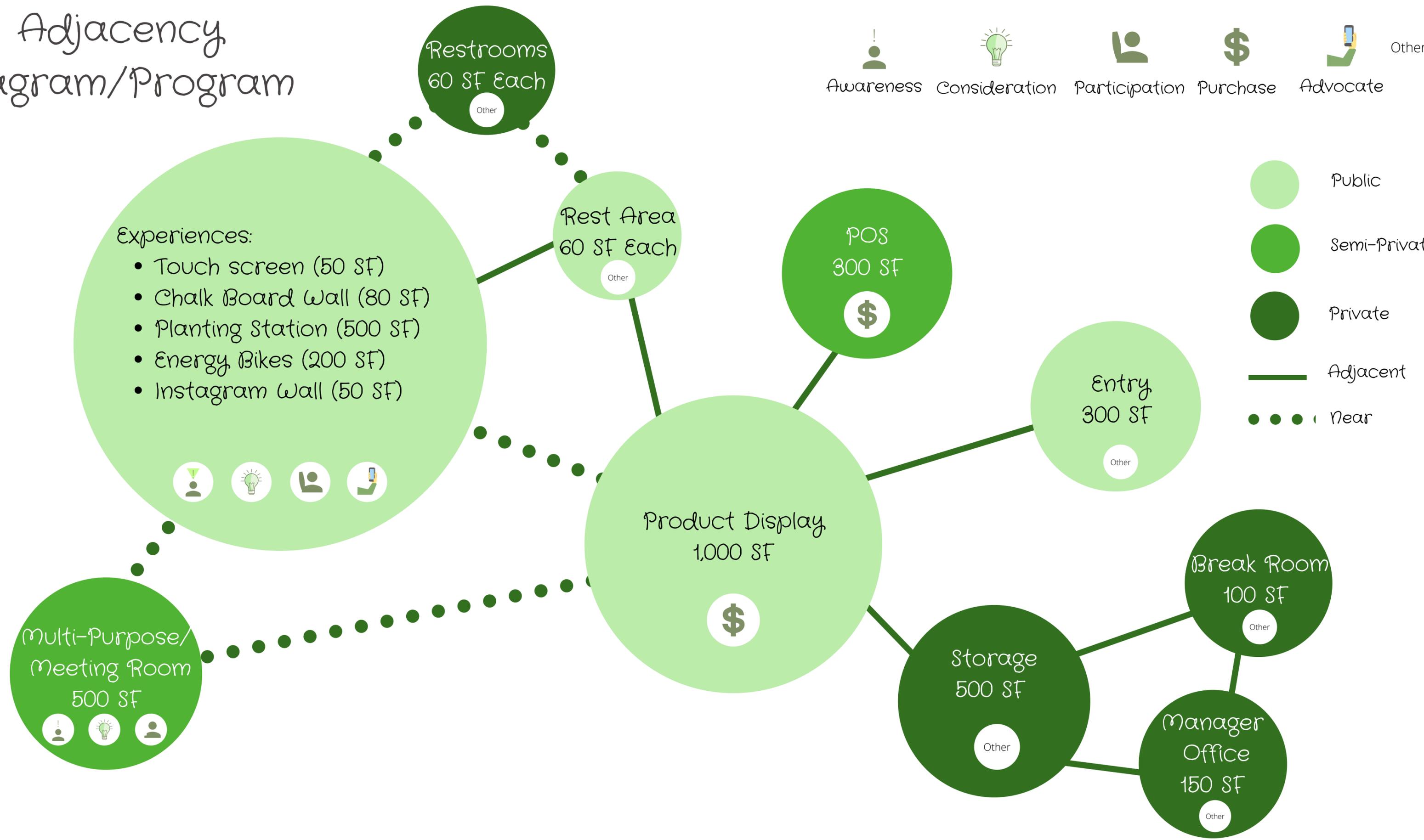
Vein (vascular bundle): Made up of Xylem and Phloem tubes these veins transport the sugar and water the plant needs.



# Adjacency Diagram/Program

 Awareness  
  Consideration  
  Participation  
  Purchase  
  Advocate  
 Other

 Public  
 Semi-Private  
 Private  
 Adjacent  
 Near



# Spatial Needs Summary

Space Name	Brief Description	Approx SF x Qty Total SF	Work Surface & Seating	Custom Element	Furniture & Equipment	Storage	Materials & Finishes	Lighting	Acoustic	ADA	Sensory
Entry	Entry should be open and welcoming	300 SF	•Possibly a bench		• Sinage	• N/A	• Sustainable/ Natural • Durable	• Access to natural light • Open and airy	• Not too ecoy like some lobbies are	•ADA Accessable	•Open and airy
Product Display	Displays product in an intersting way	1,000 SF	•N/A	• Shelves • Table	• N/A	• N/A	• Sustainable/ Natural • Durable	• Access to natural light • Highlight product	•N/A	•ADA Accessable	•Simple and sophisticated
POS	POS to be a visual focus for the space	300 SF	• Custom counter	• Counter • Wall behind	• Computer • Register • Extra counter space	• Under Counter storage	• Durable • Higher end/ more interesting to make it stand out • Sustainable/ Natural	• Large Interesting Fixture	•N/A	•ADA Accessable Low enough counter	•Little showy, yet sophisticated
Storage	Storage for retail products	500 SF	• N/A	• N/A	• Shelving	• Shelving	• Durable • Sustainable/ Natural	• Normal Can Lights	• N/A	•N/A	•N/A
Break Room	For employees to relax & take lunch	100 SF	•Table to eat at • Chairs	• N/A	• Table • Chairs	• Lockable Storage	• Sustainable/ Natural	• Normal Can Lights	• N/A	•N/A	•Comfortable
Manager Office	Place for the manager to work, do paper work, book event	150 SF	• Desk • Chair	• N/A	• Desk • Chair • Computer • Telephone	• Lockable Storage/Filing	• Sustainable/ Natural	• Normal Can Lights	• N/A	•N/A	•N/A
Customer Rest Area	Sitting area for customer to relax	60 SF x 3 180 SF	• Bench/ built in seating	• Seating	• N/A	• N/A	• Sustainable/ Natural • Comfortable	• Fun Pendants or other fixture	•Quieter than the rest of the space	•N/A	•Comfortable
Restroom	ADA restrooms	60 SF x 3 180 SF	• N/A	• N/A	• Toilet • Sink • Mirror • Countertop	• N/A	• Sustainable/ Natural • Water proof • Easily cleanabl	• Back lit mirror • Normal Can Lights	•Walls go to deck	•ADA Accessable	•N/A
Multi-Purpose Meeting Room	Highly adaptable space for seminars/events	500 SF	• Stackable chairs • Movable table	• N/A	• Computer • Screen • Projector • Audio equipment	• N/A	• Sustainable/ Natural • Works well with other adaptable aspects	• Lots of options • Dimmable	•Not too much echo	•ADA Accessable	•comfortable, not feeling like you are on display even if it is visually open
Chalk Board Wall	to say why you want to be more sustainable	80 SF	• N/A	• Wall • Place for the chalk	• Chalk	• N/A	• Chalk Board Paint	• Light pointed towards wall	• N/A	• N/A	•N/A
Instagram Wall	for advocating for the earth & the space	50 SF	• N/A	• Backdrop	• Props • Backdrop	• Storage for props	• Sustainable/ Natural	• Bright Light not back lit	• N/A	• N/A	•lots of texture for visual interest
Energy Bikes	3 or 4 bikes in front of a screen	200 SF	• N/A	• Wall	• Bikes • Screen	• N/A	• Sustainable/ Natural • Durable	• Light bulb that lights up when bike is in motion • Normal Can lights	•acoustics needed here	• N/A	•N/A
Planting Station	Area with lots of shelves and natural light to teach about indoor plants	500 SF	• Shelving against windows • Possibly 1 or 2 seating options	• Shelving	• Shelving • Sink	• Storage for • seeds • dirt • pots • tools	• Sustainable/ Natural • Water Resistant • Easily Cleanable	• Lots of natural light	•N/A	• ADA Accessable with knee space under shelves	•Relaxing
Touch Screen	Touchscreen or live survey result on a screen	50 SF	• N/A	• Wall around screen	• Screen	• N/A	• Sustainable/ Natural around the srceen	• Keep glare in mind	• N/A	• N/A	•N/A

# Key Experiences

Chalkboard wall where you can write why you want to live more sustainably.

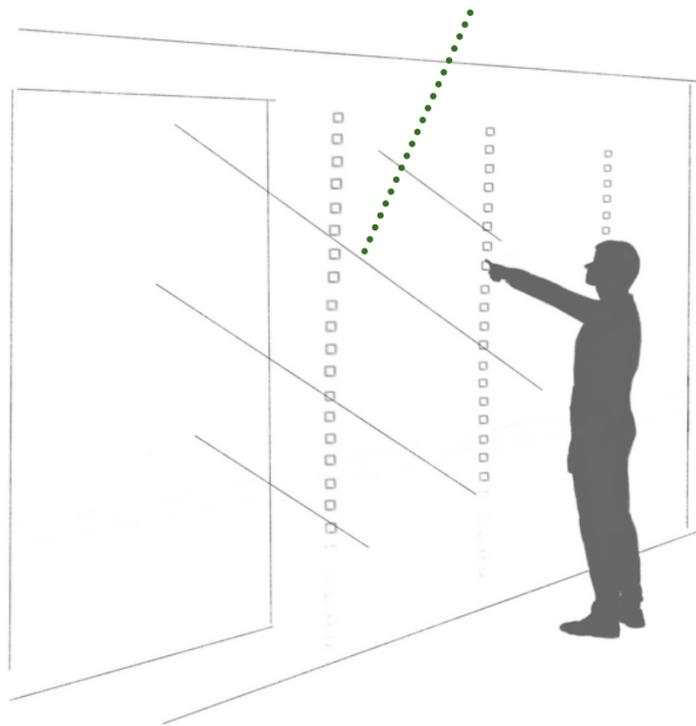


Participation



Consideration

Touchscreen where you can check off the sustainable practices that you take part in and based on that shows you how sustainable you are in comparison to others.



Participation

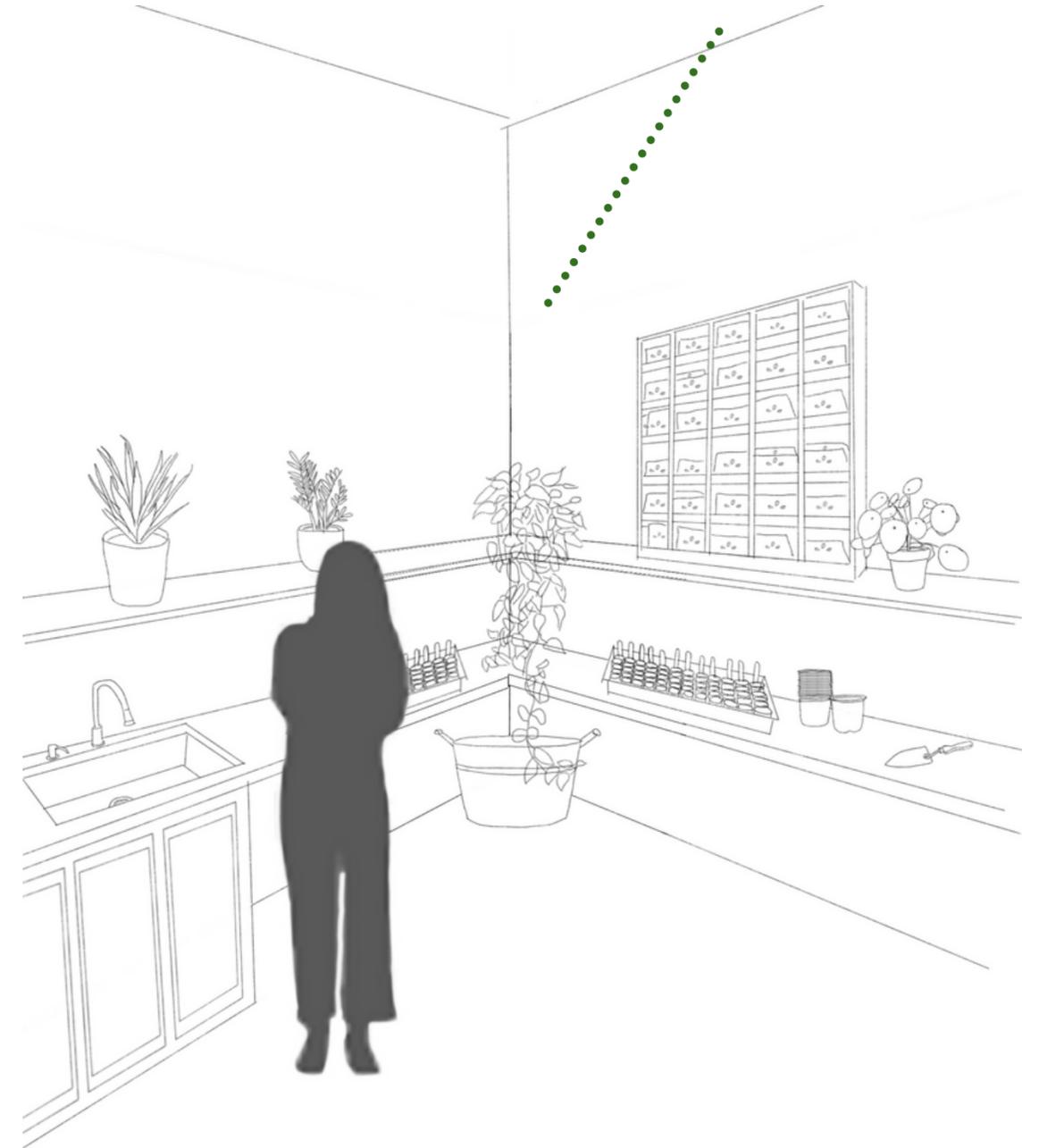


Awareness



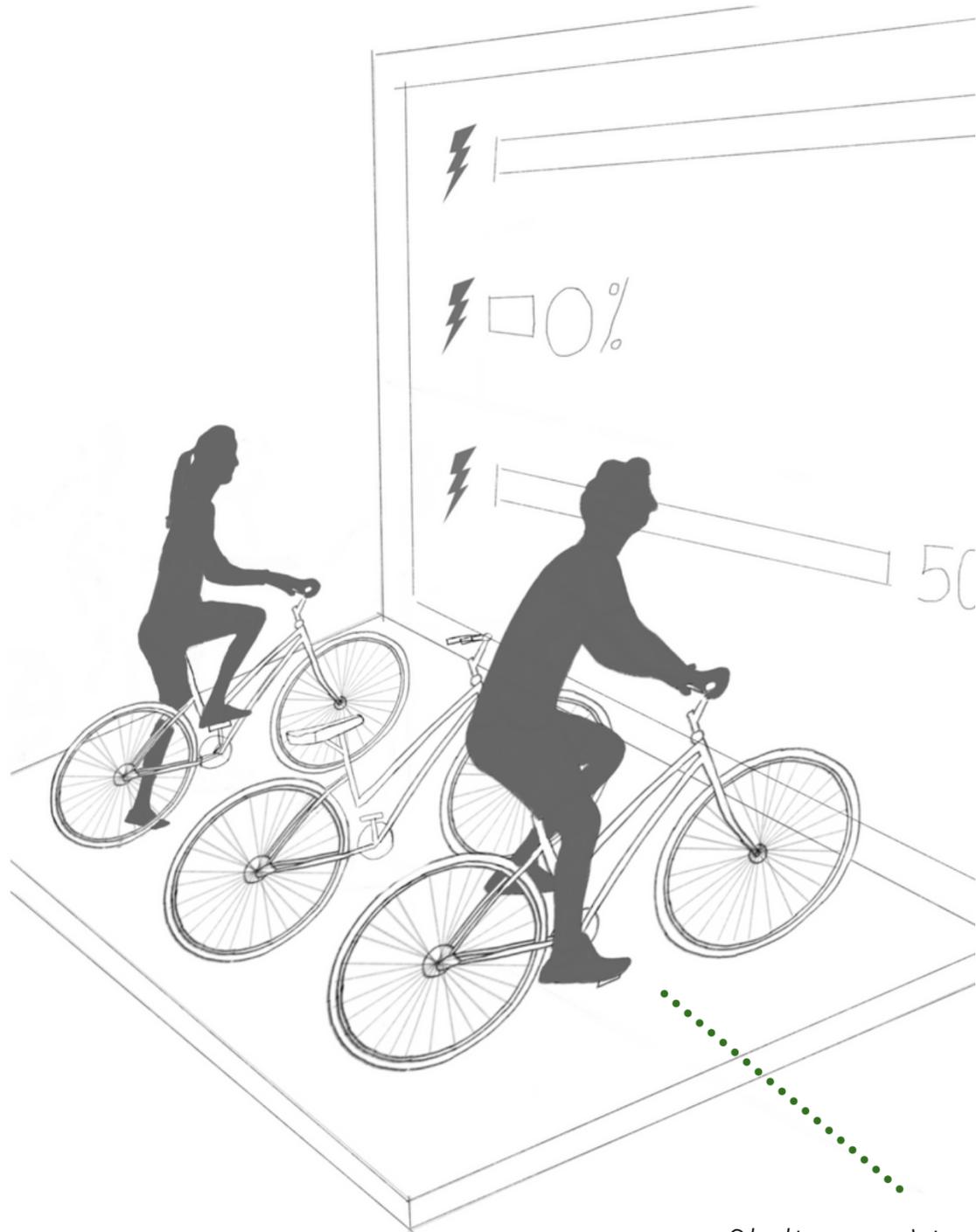
Consideration

An area to learn how to plant and take care of indoor plants and grow your own produce.



Participation

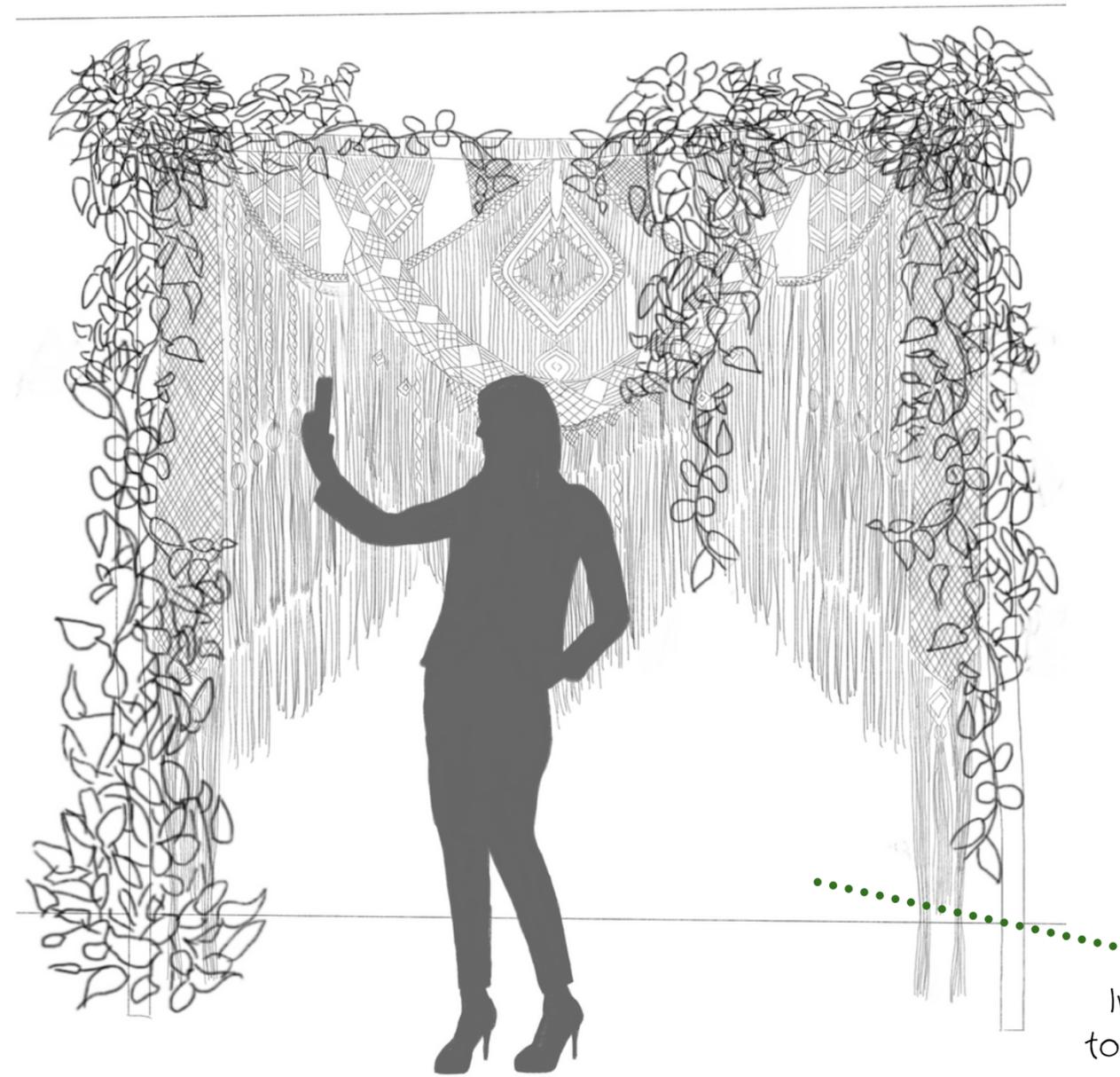
# Key Experiences



Stationary bicycles that generate energy for the space when in use.



Participation



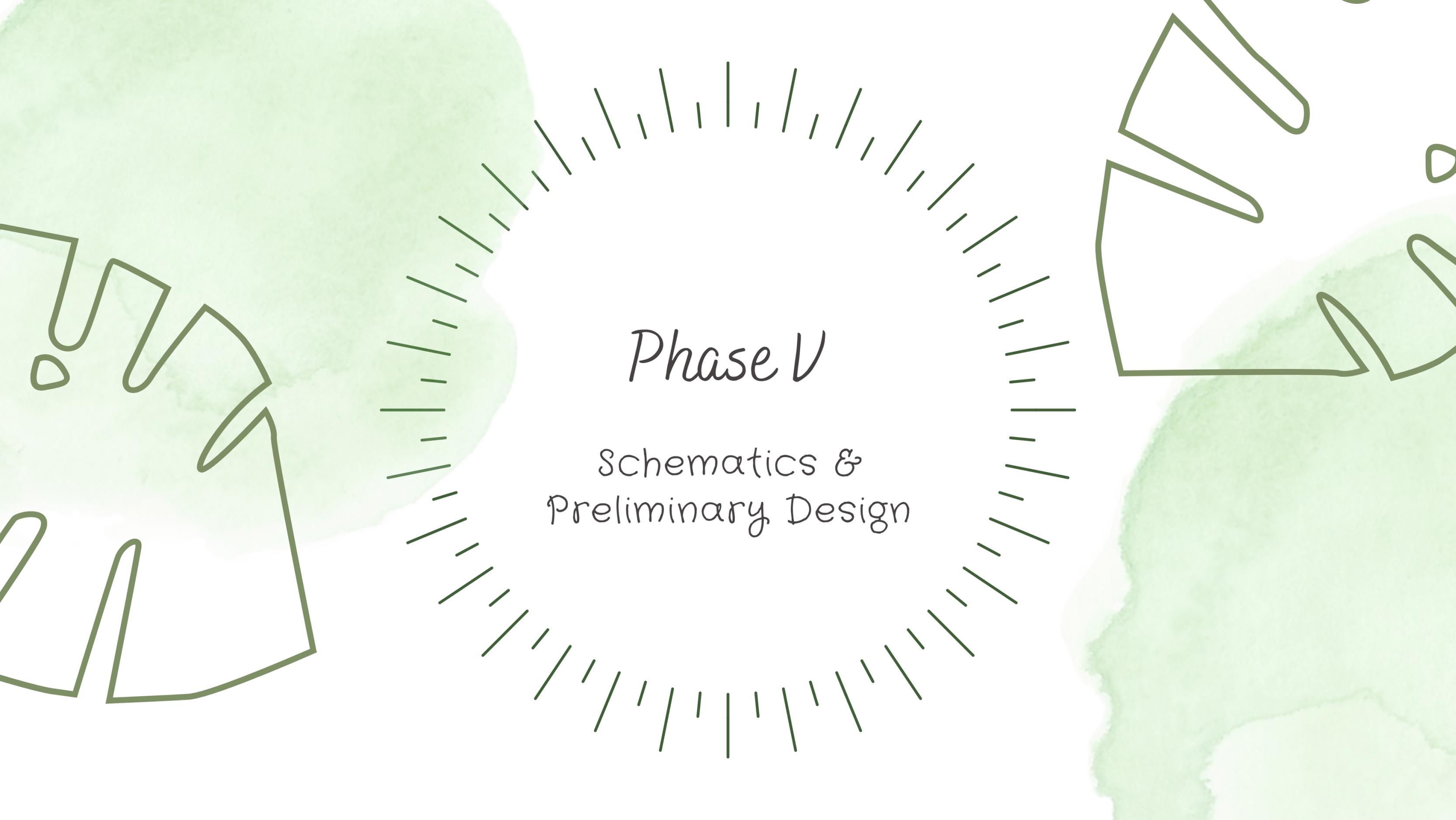
Instagram backdrop to generate excitement about the space



Participation



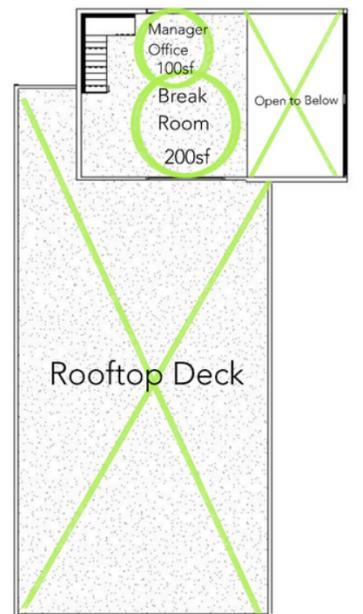
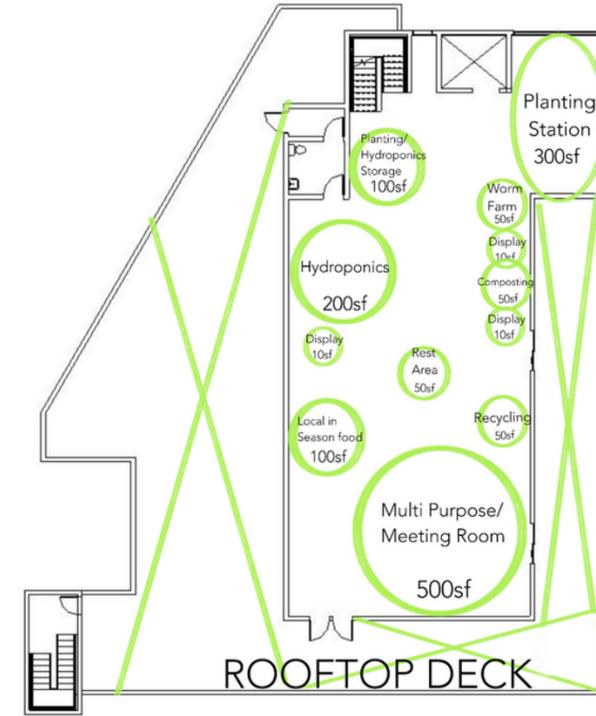
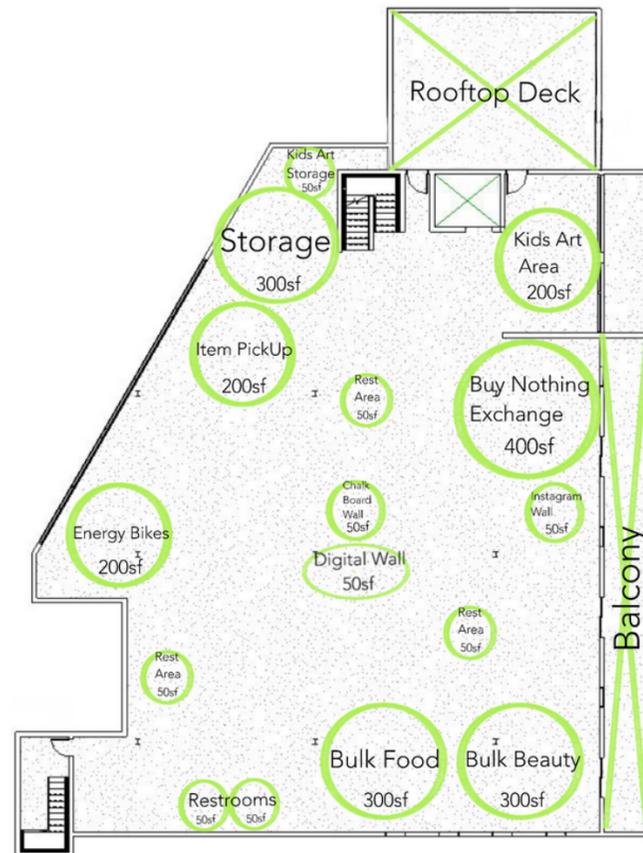
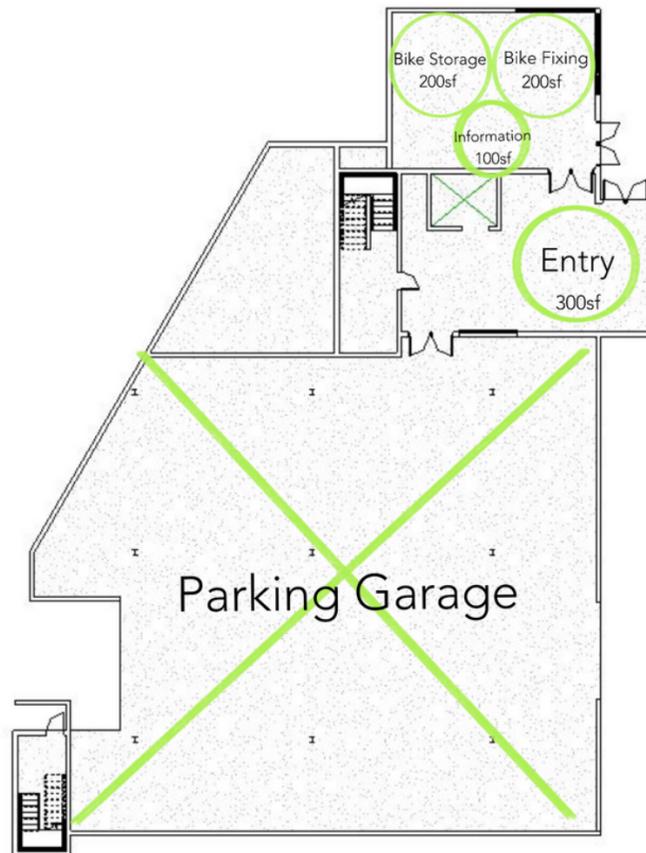
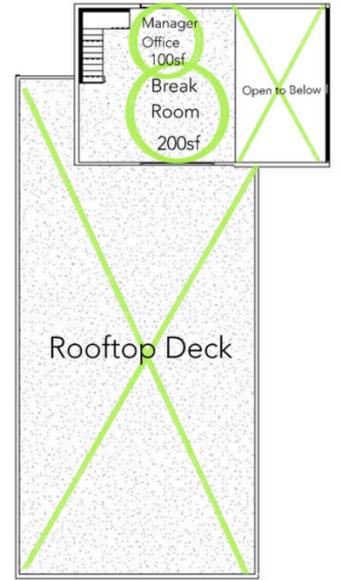
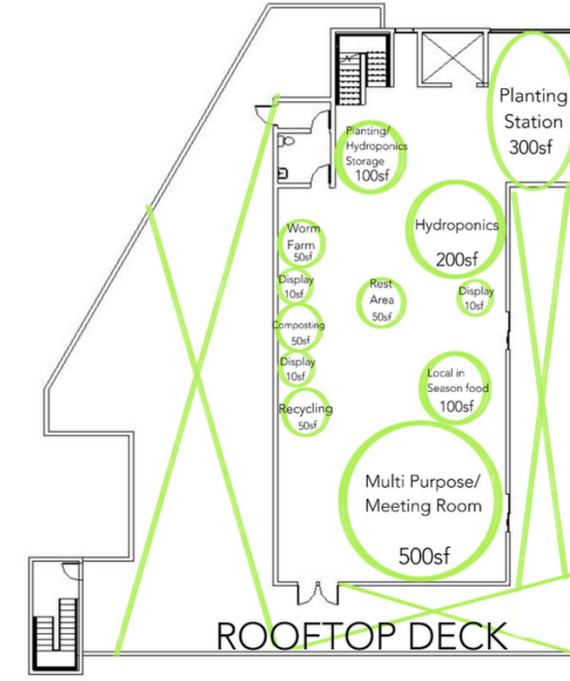
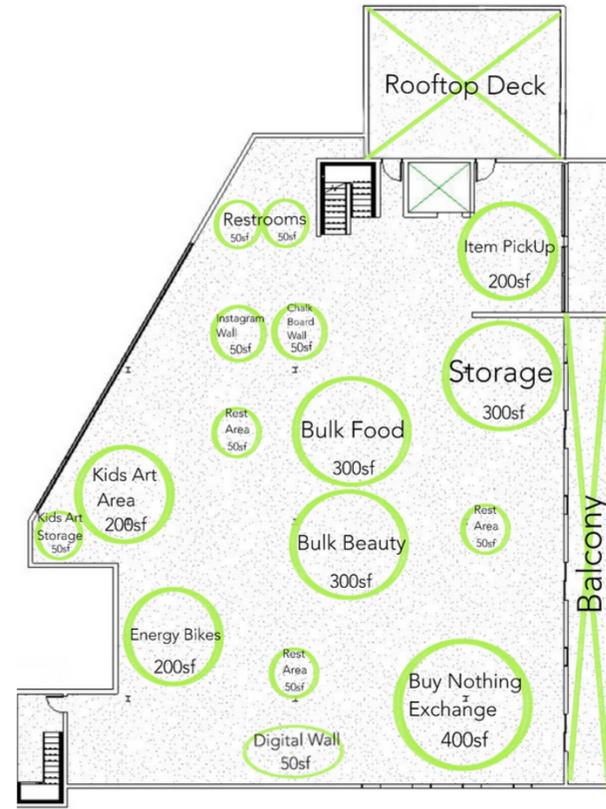
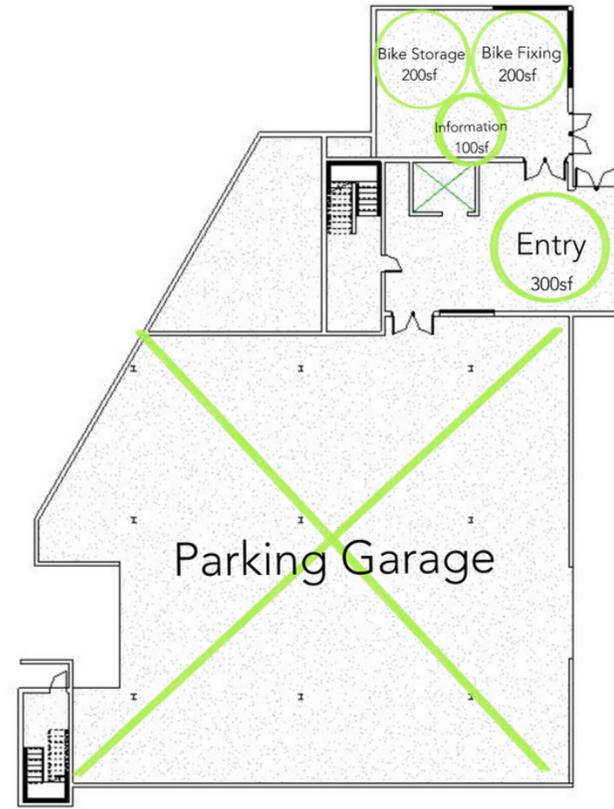
Advocate



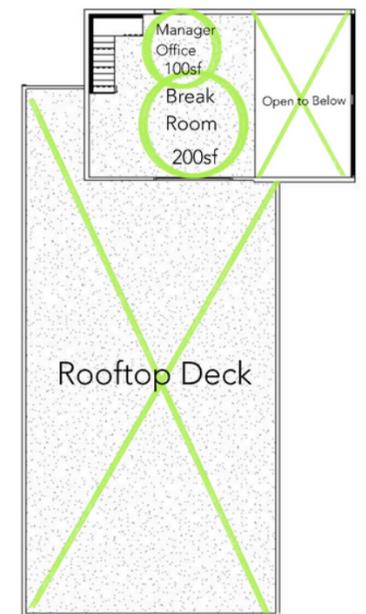
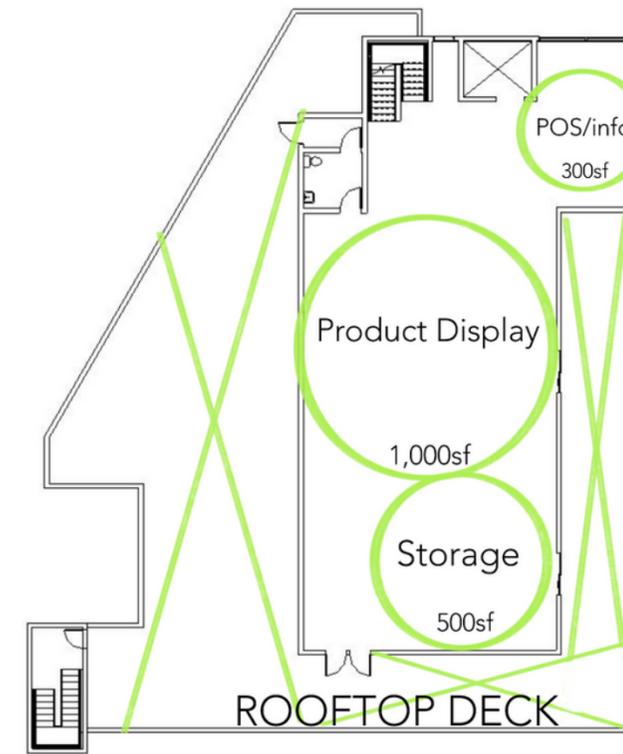
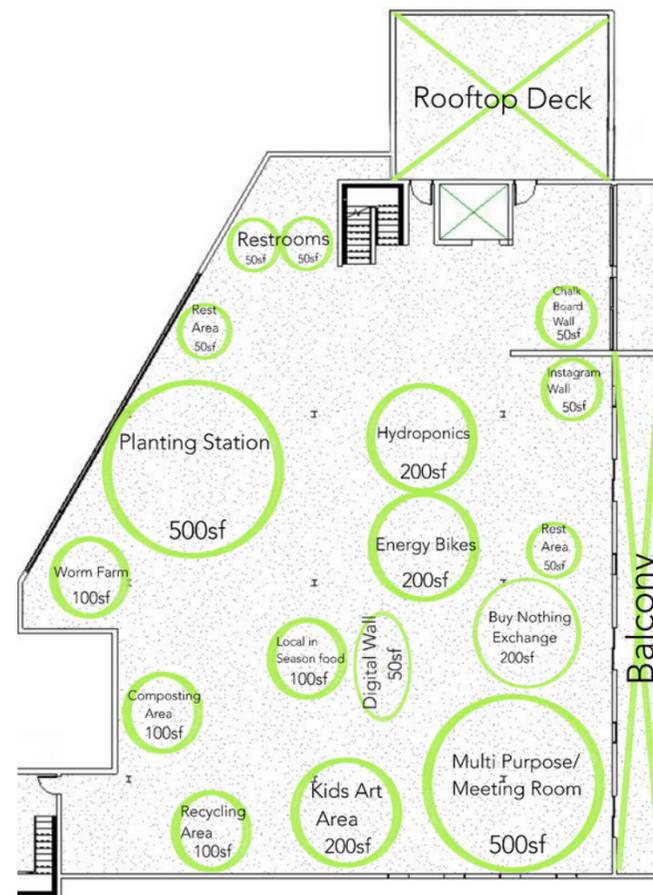
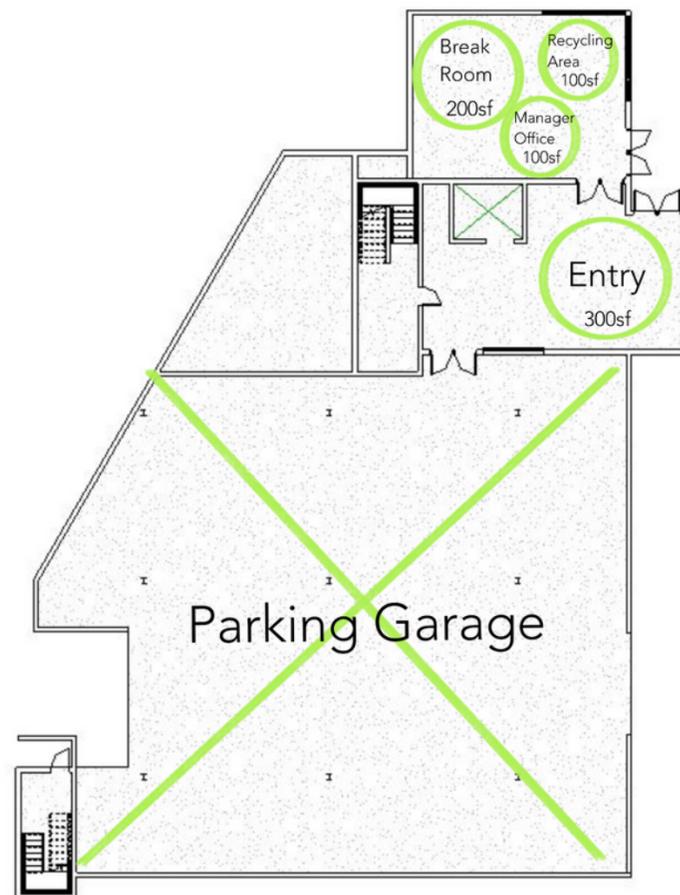
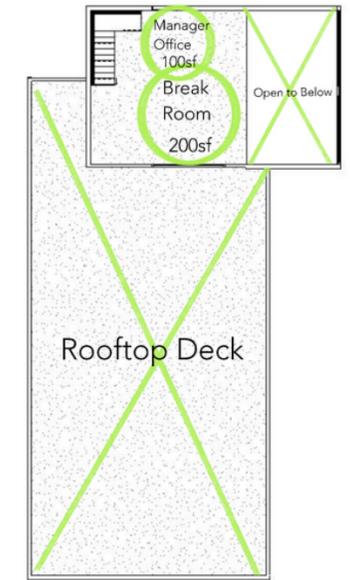
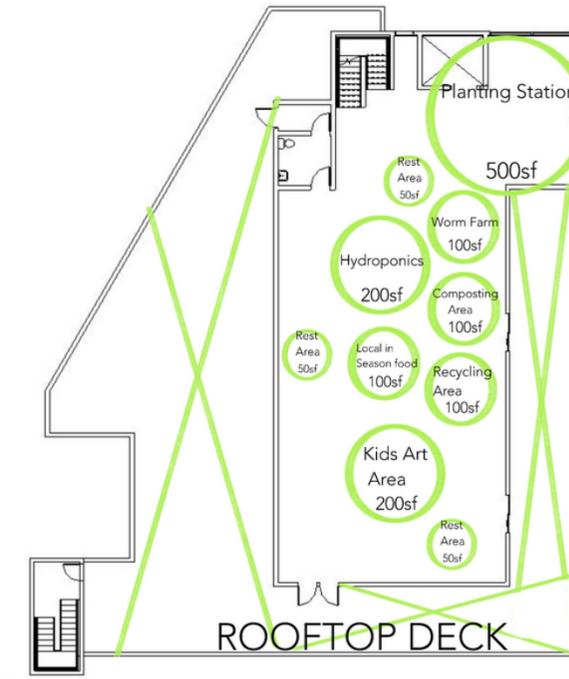
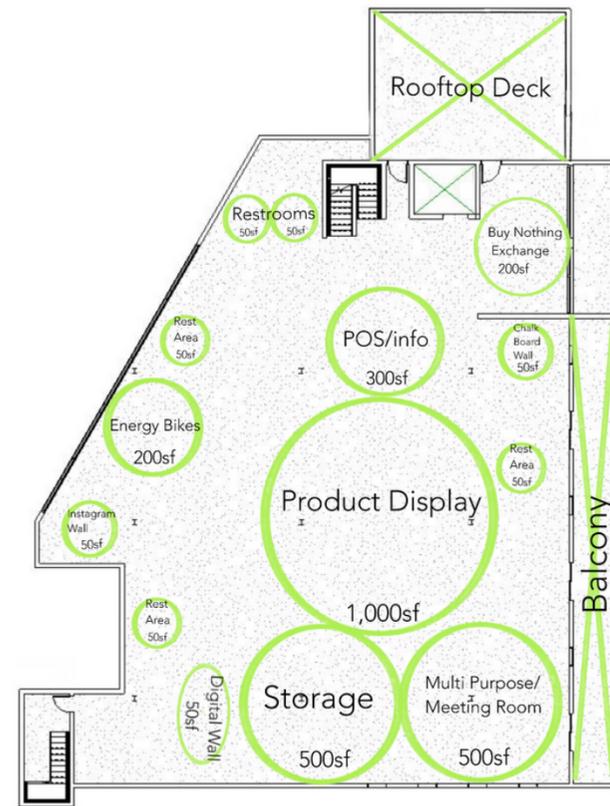
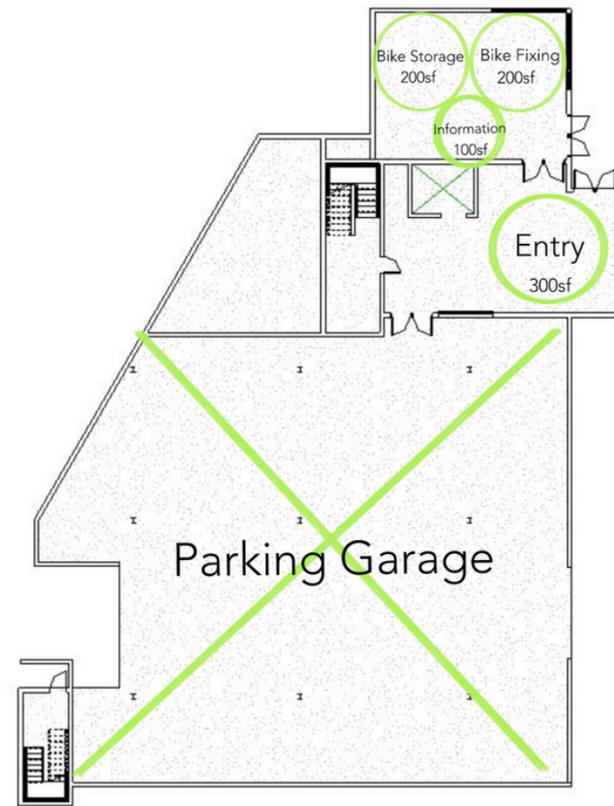
Phase V

Schematics &  
Preliminary Design

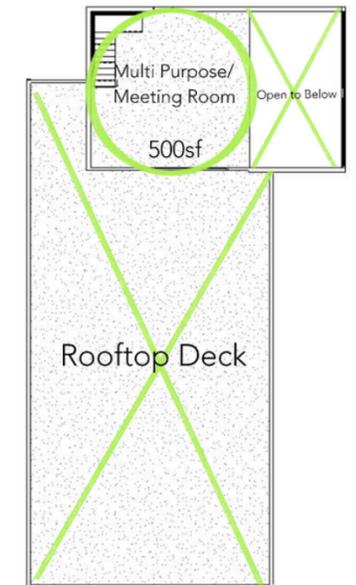
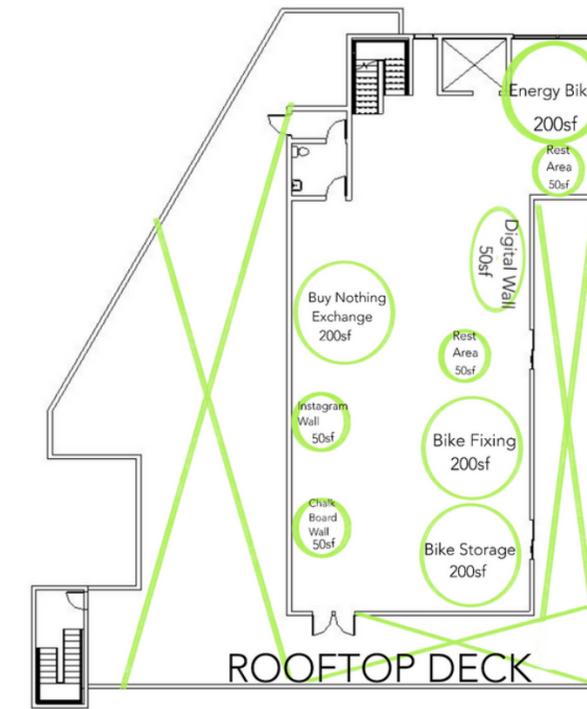
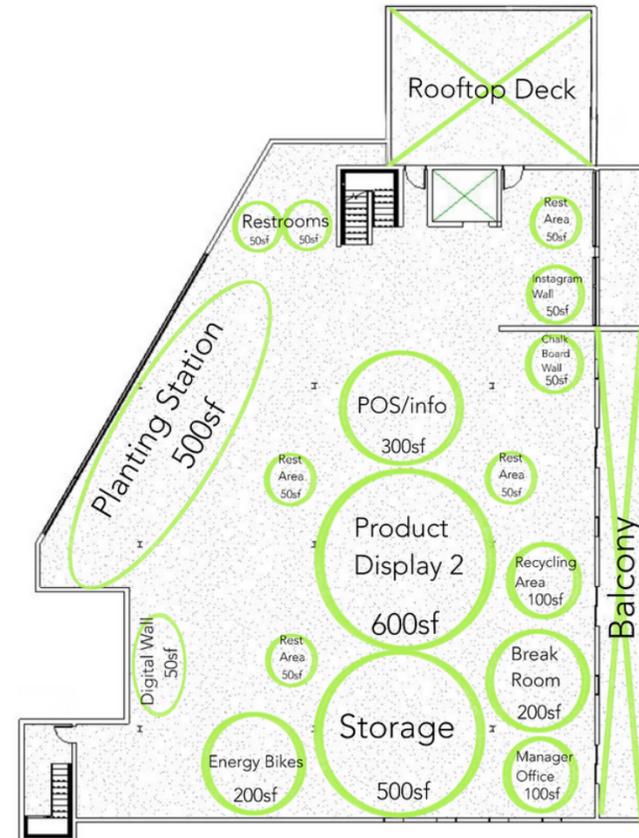
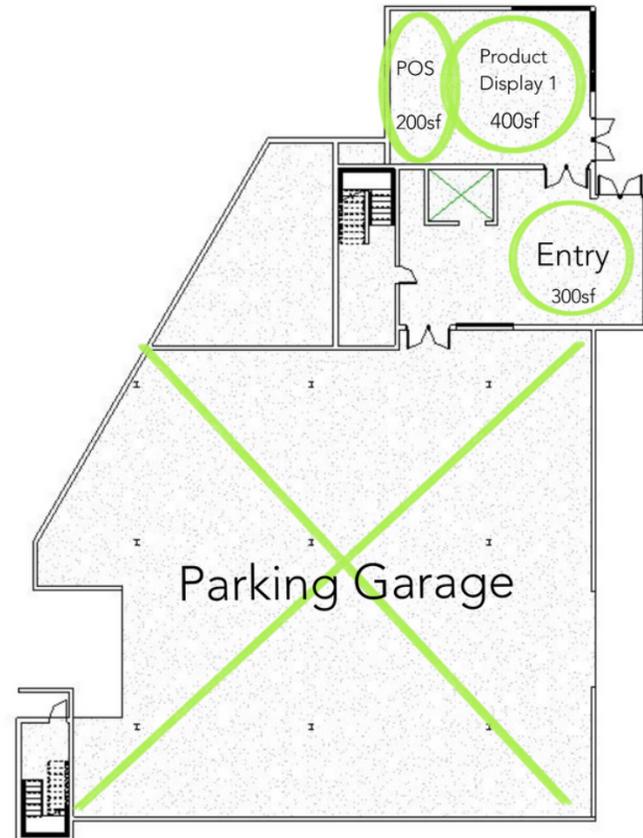
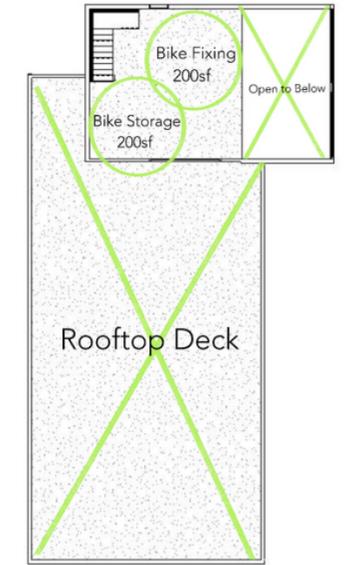
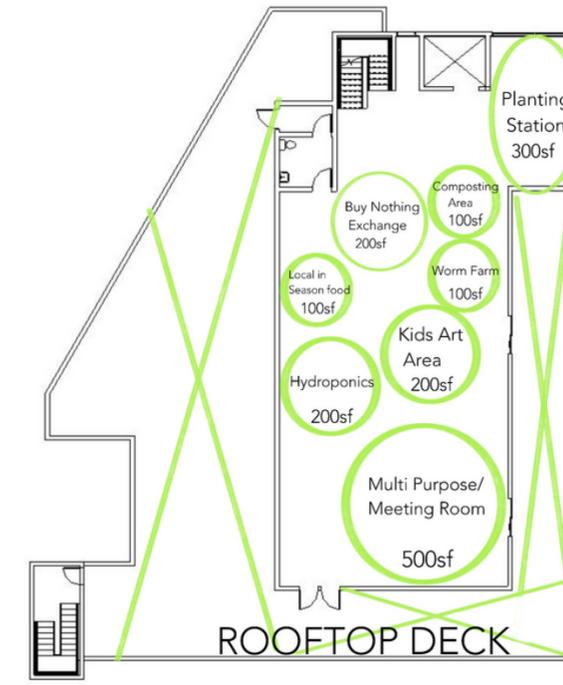
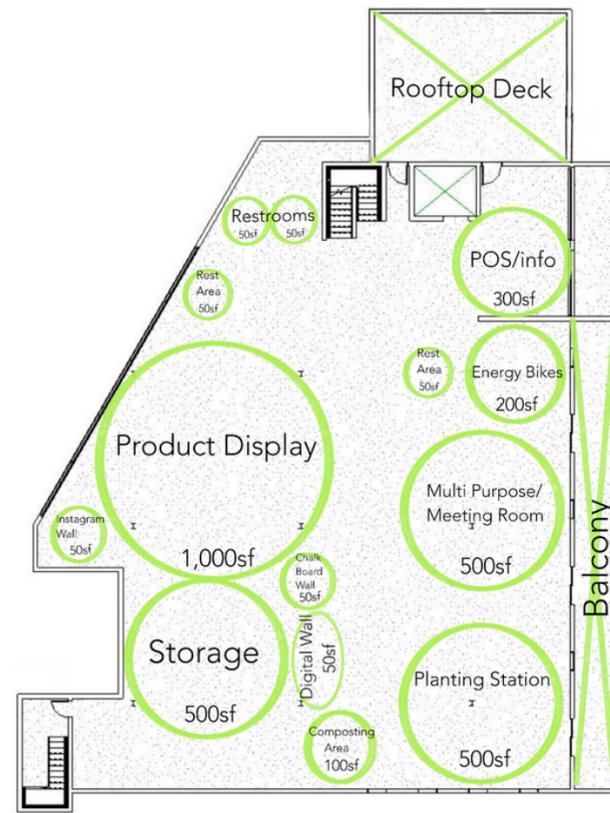
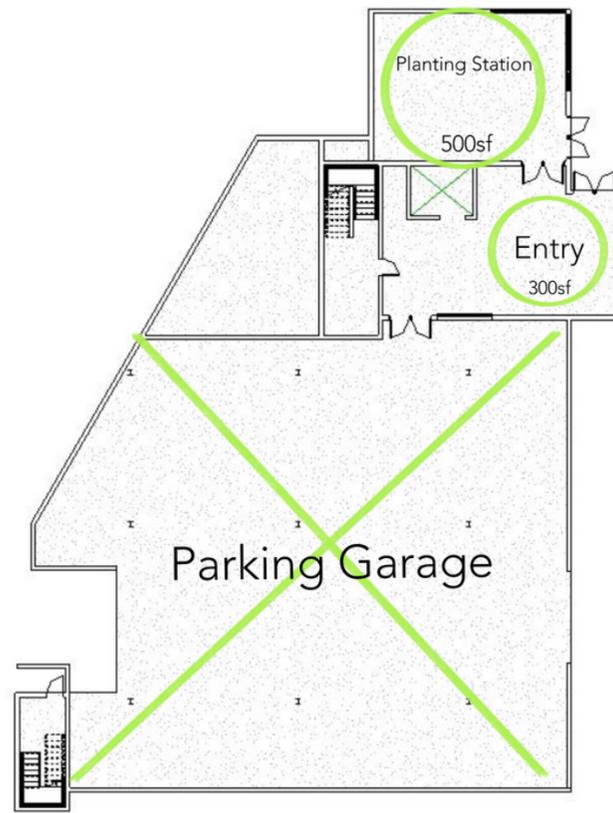
# Bubble Diagrams



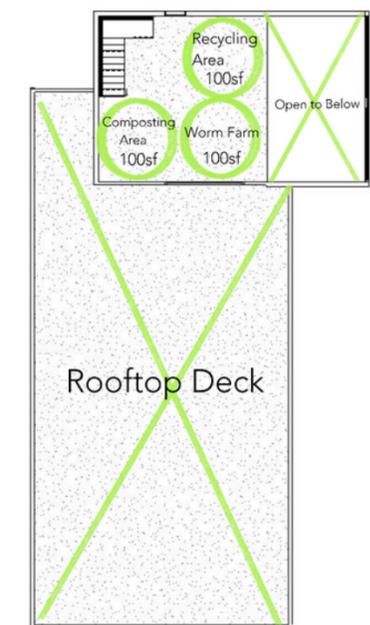
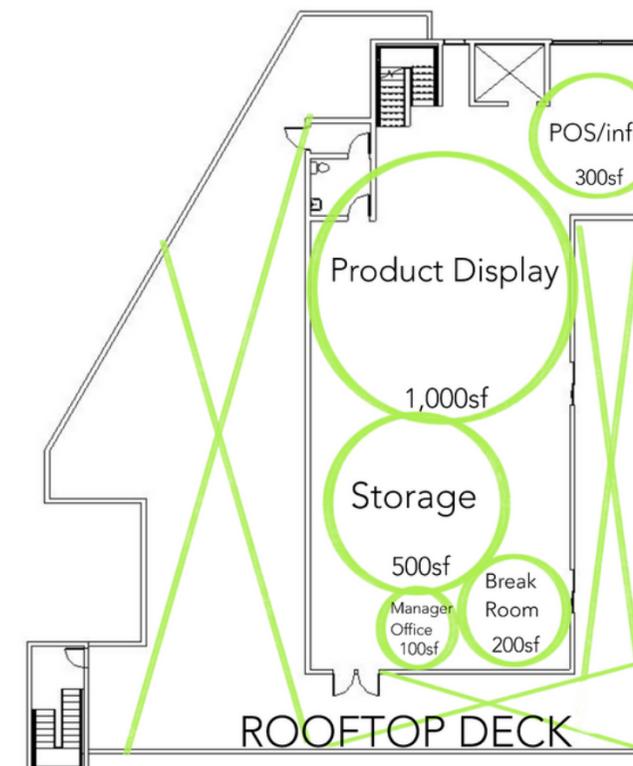
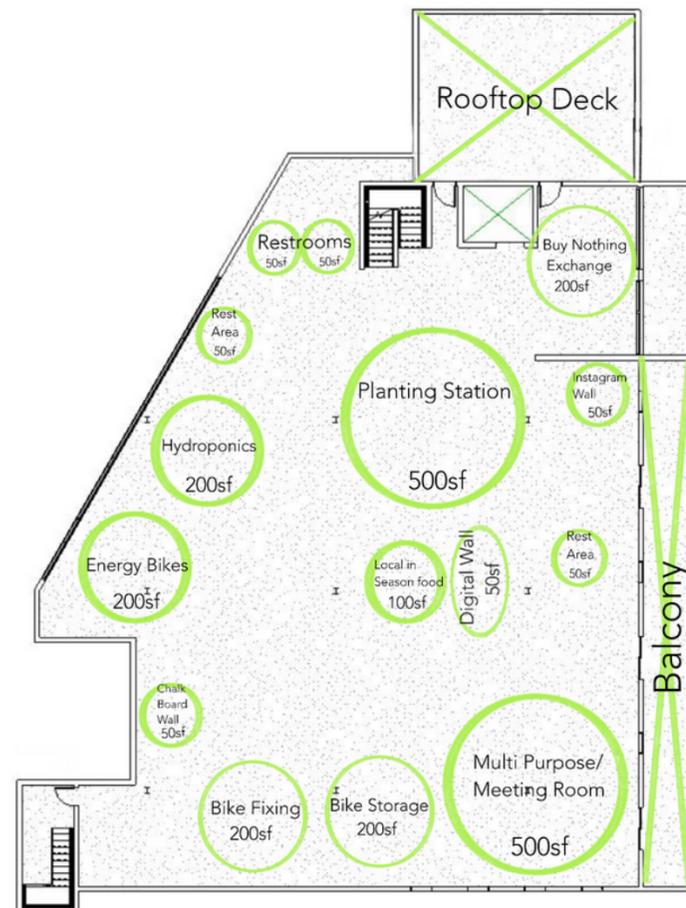
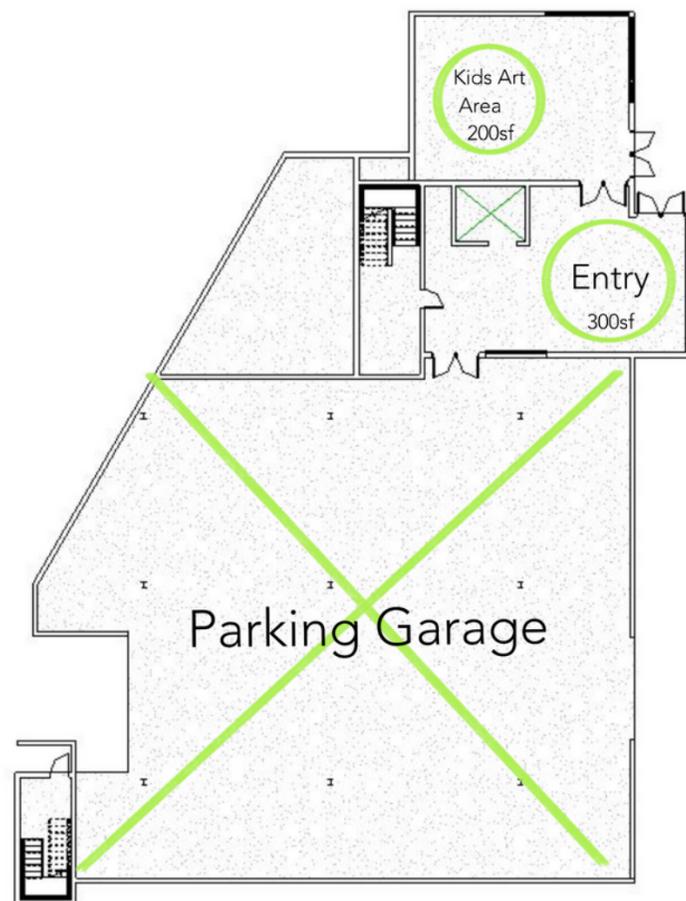
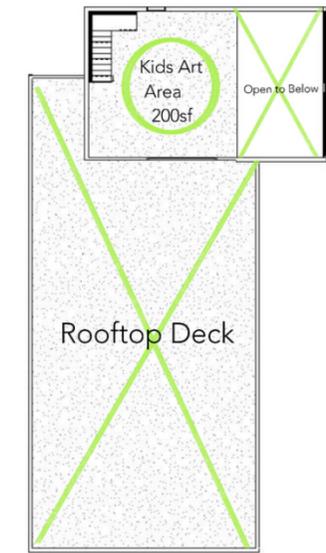
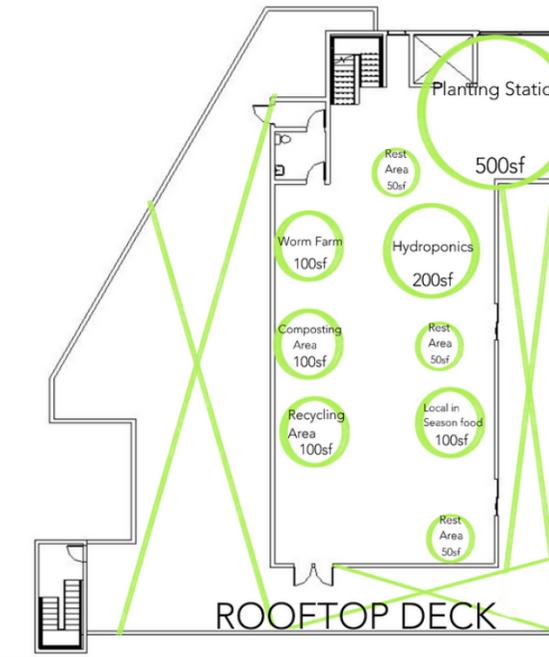
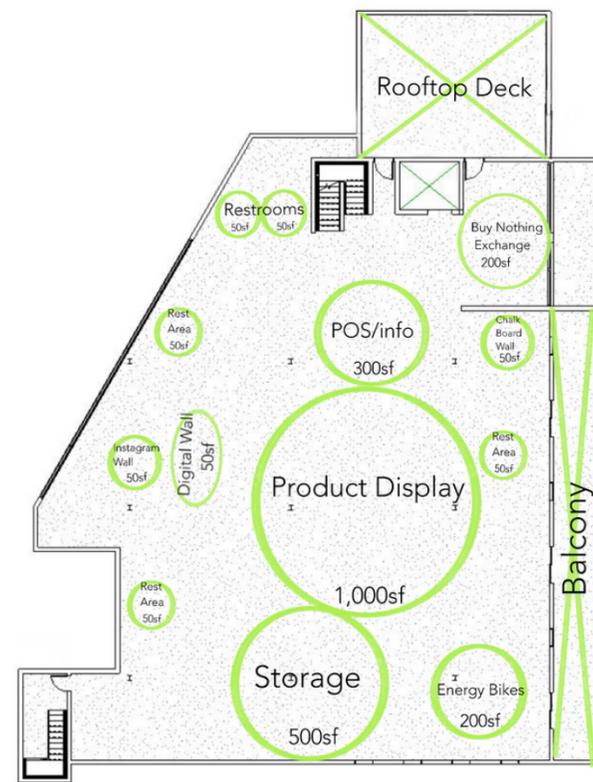
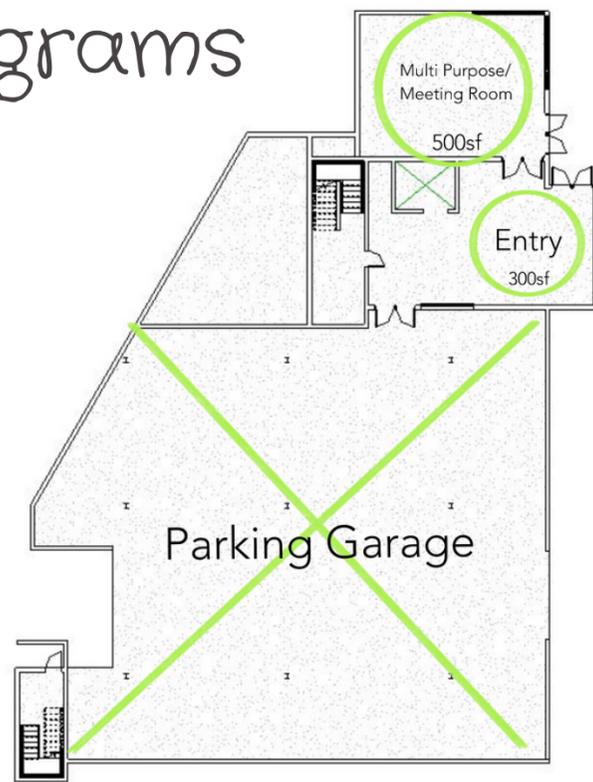
# Bubble Diagrams



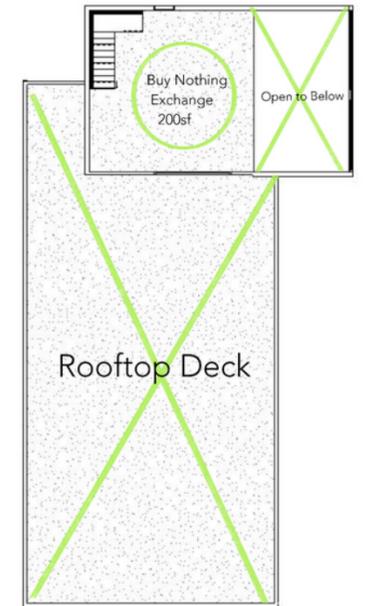
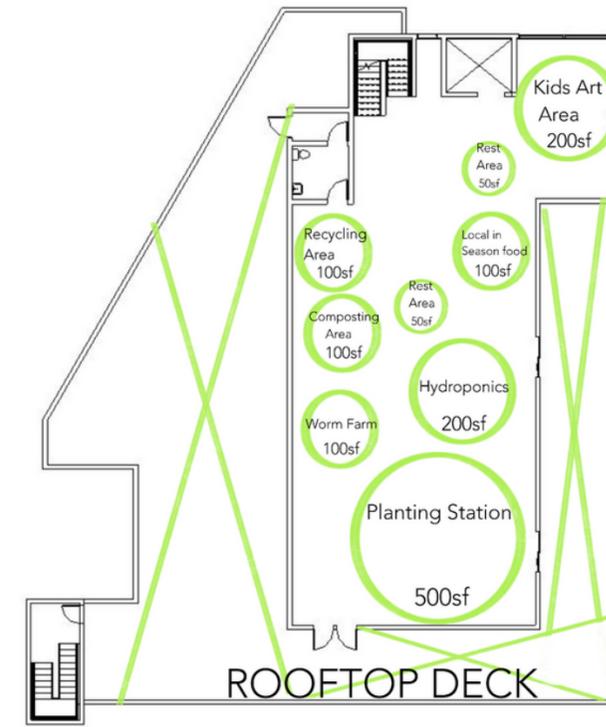
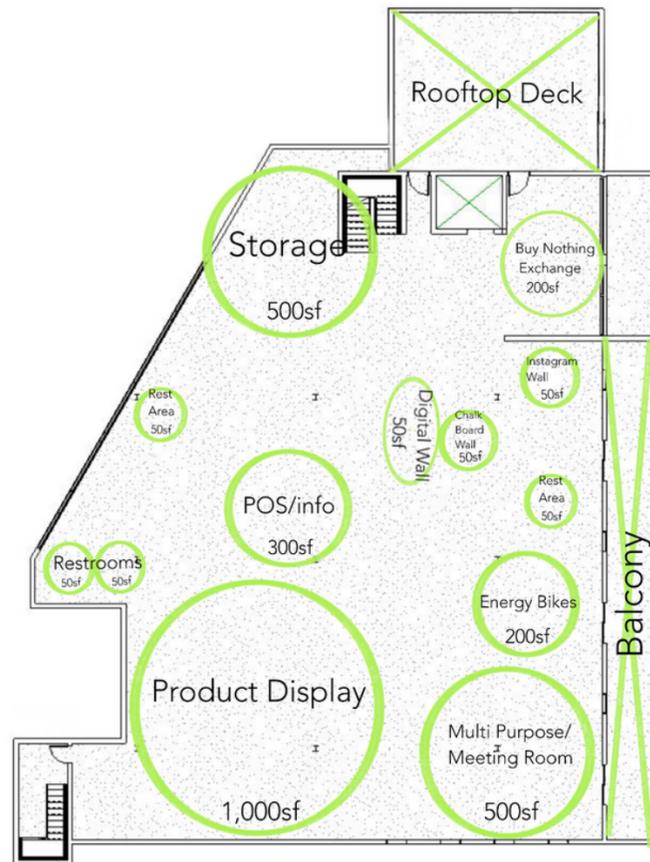
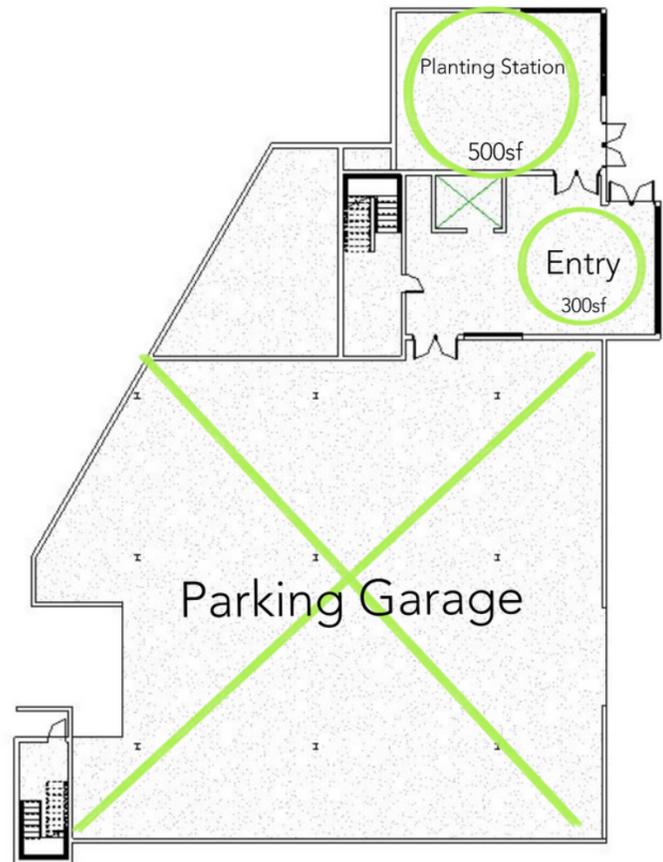
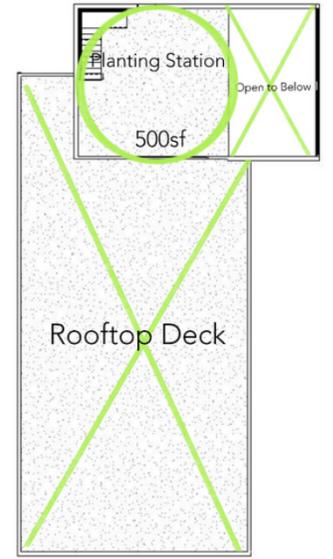
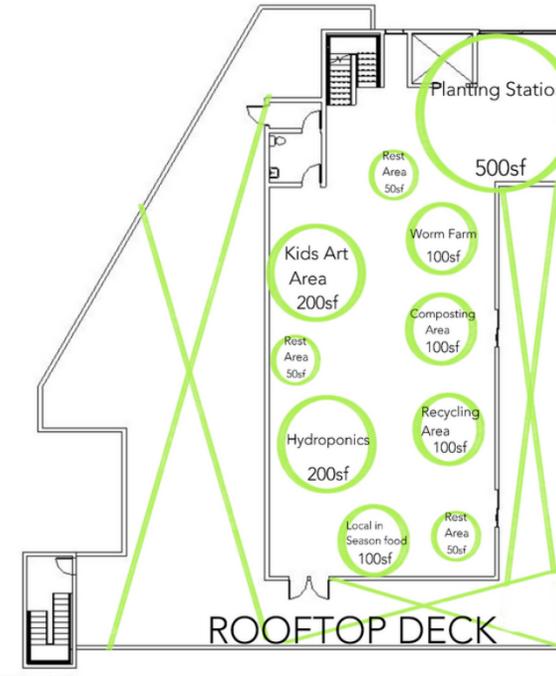
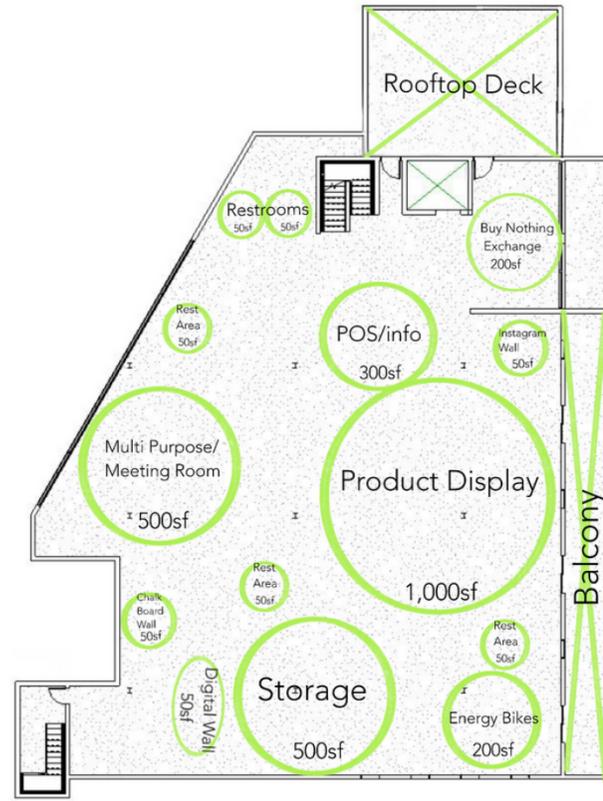
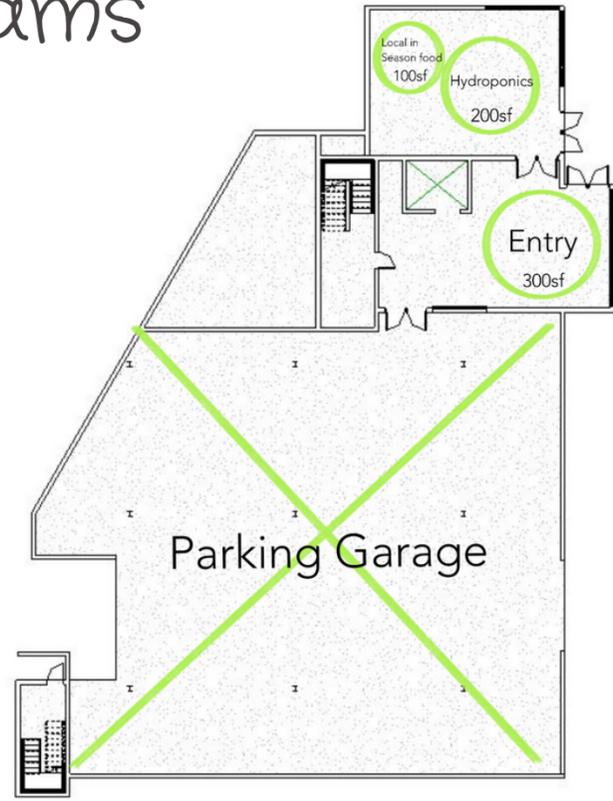
# Bubble Diagrams



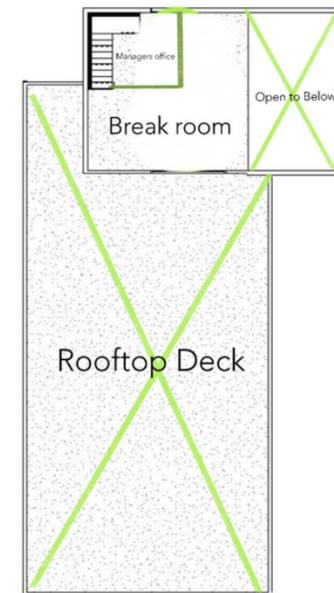
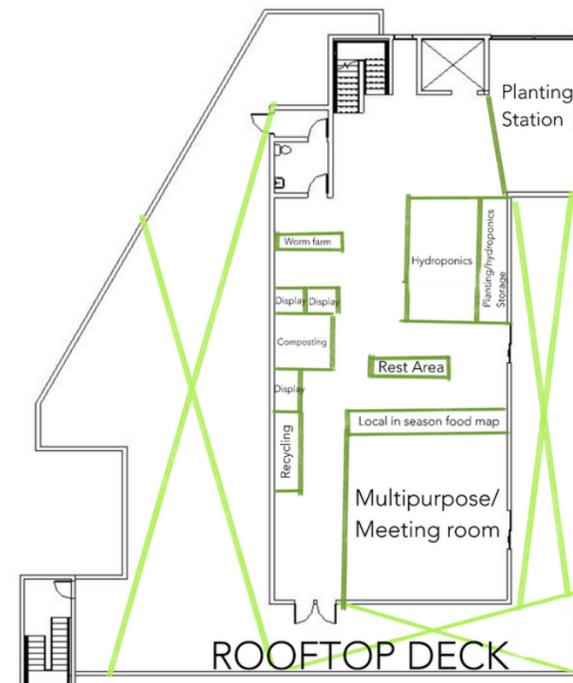
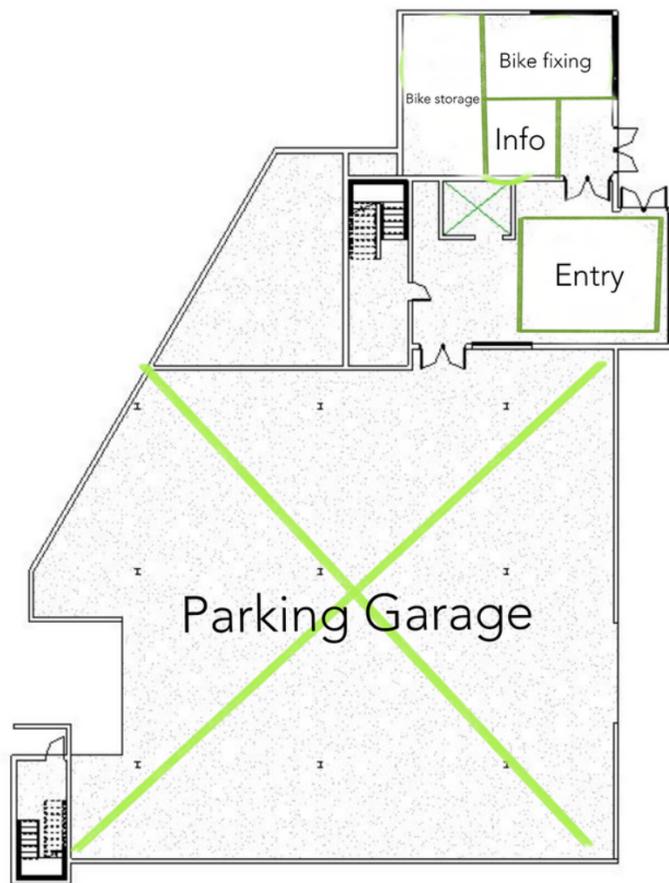
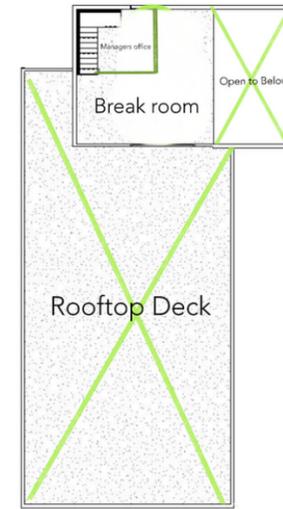
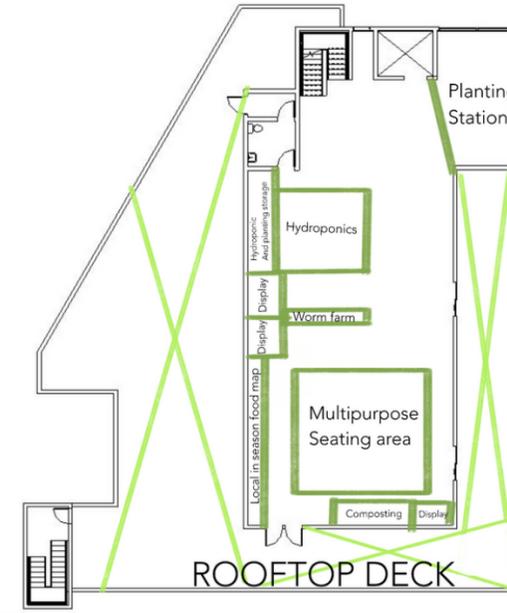
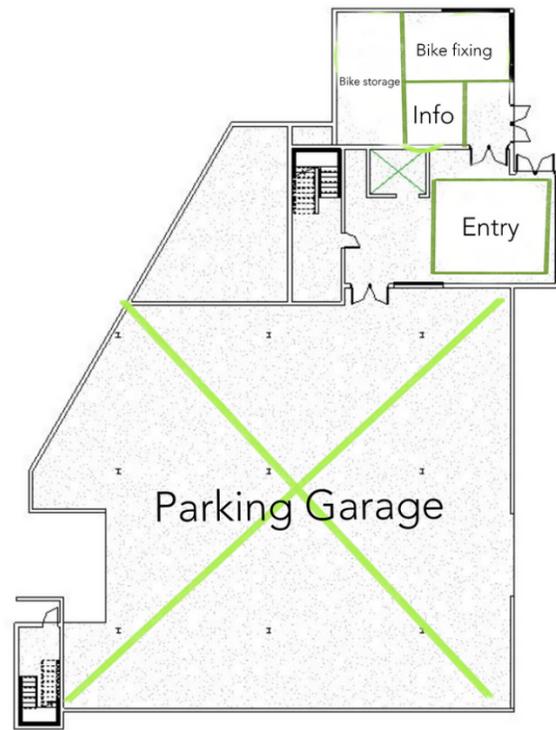
# Bubble Diagrams



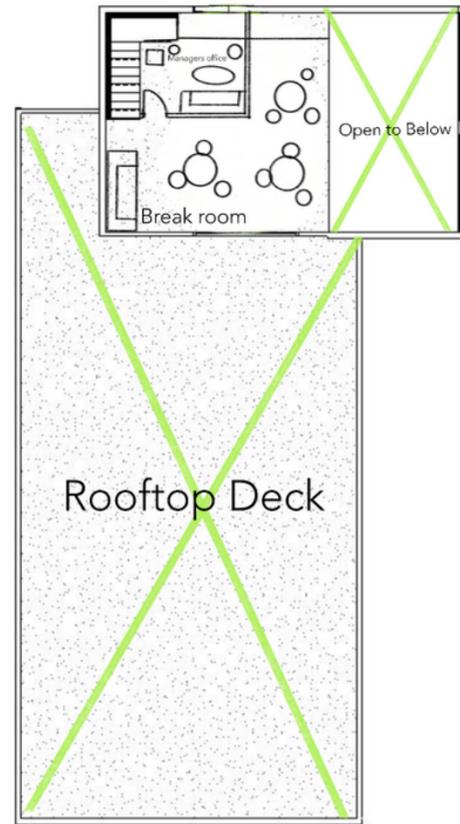
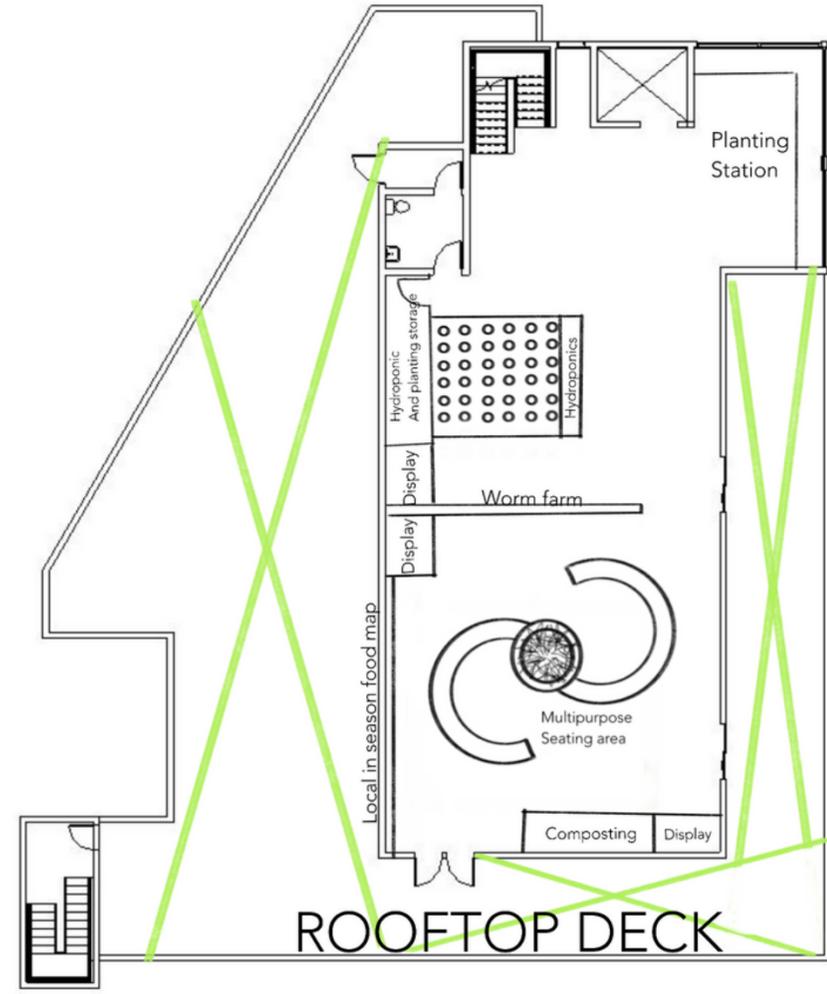
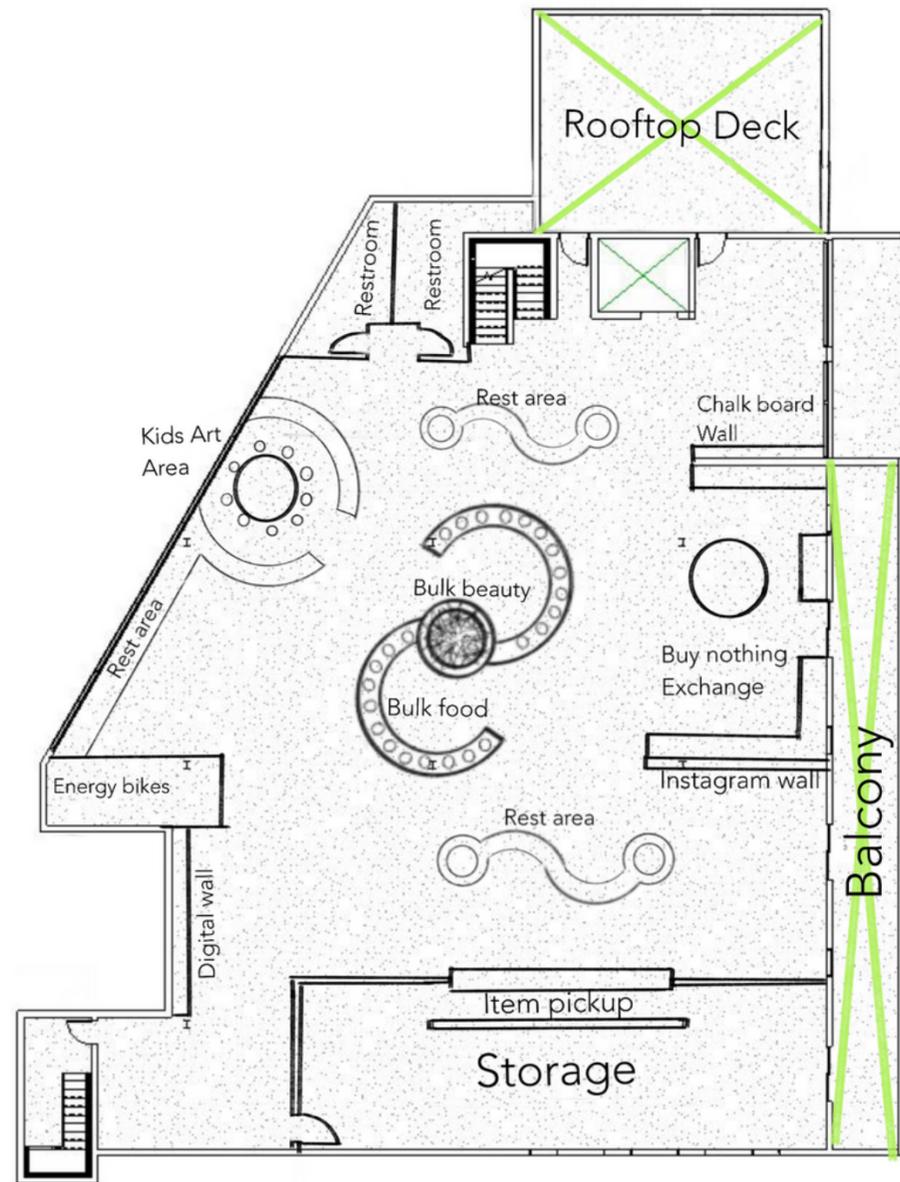
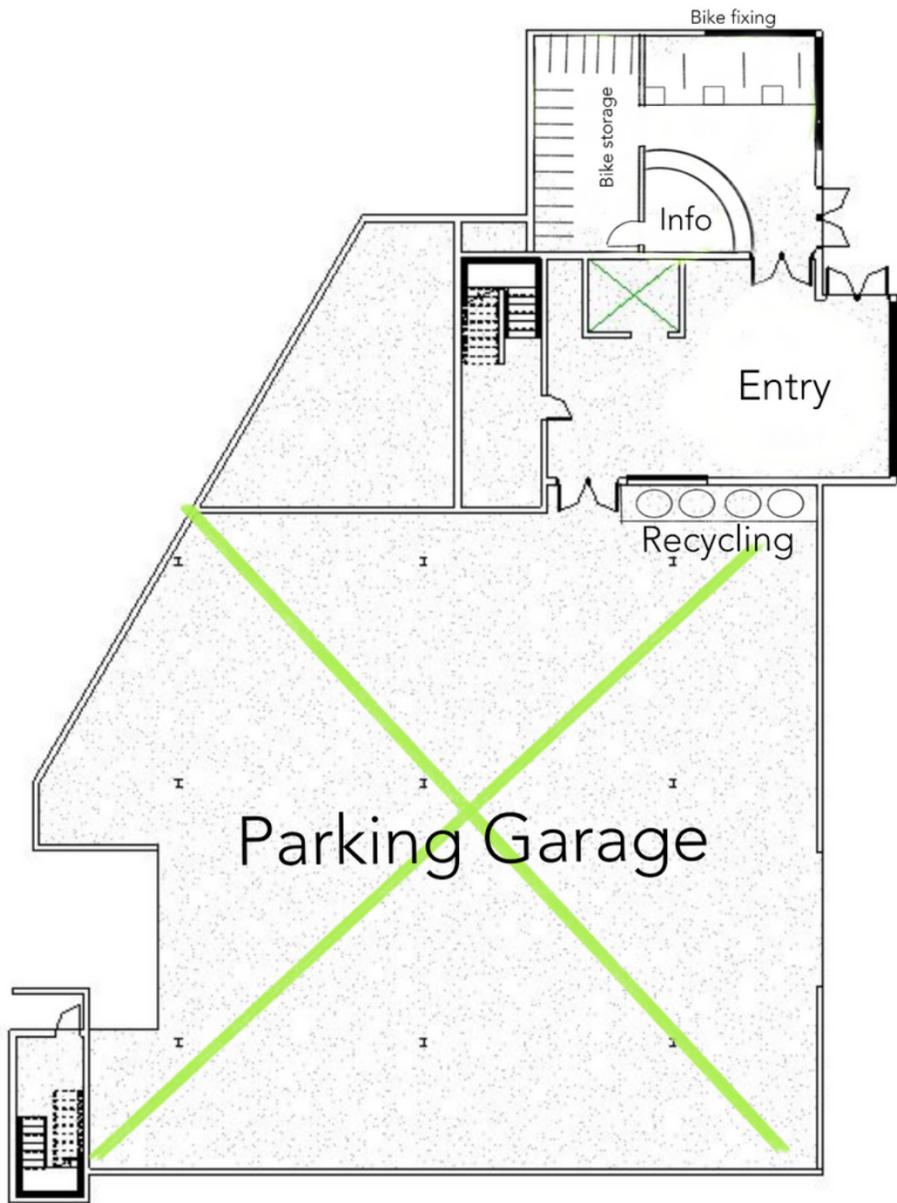
# Bubble Diagrams



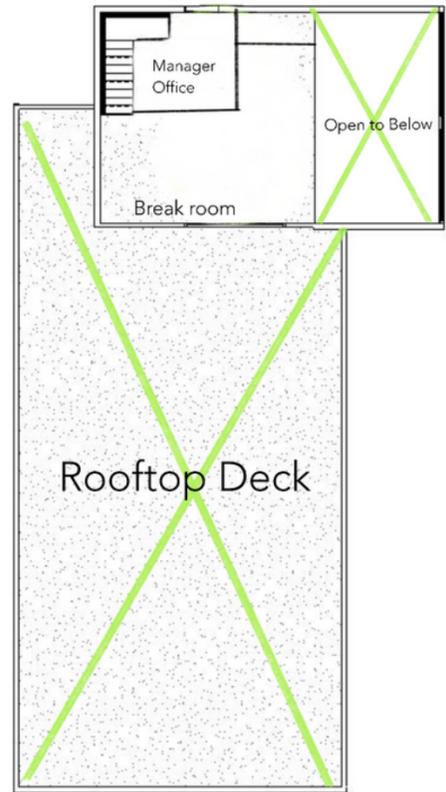
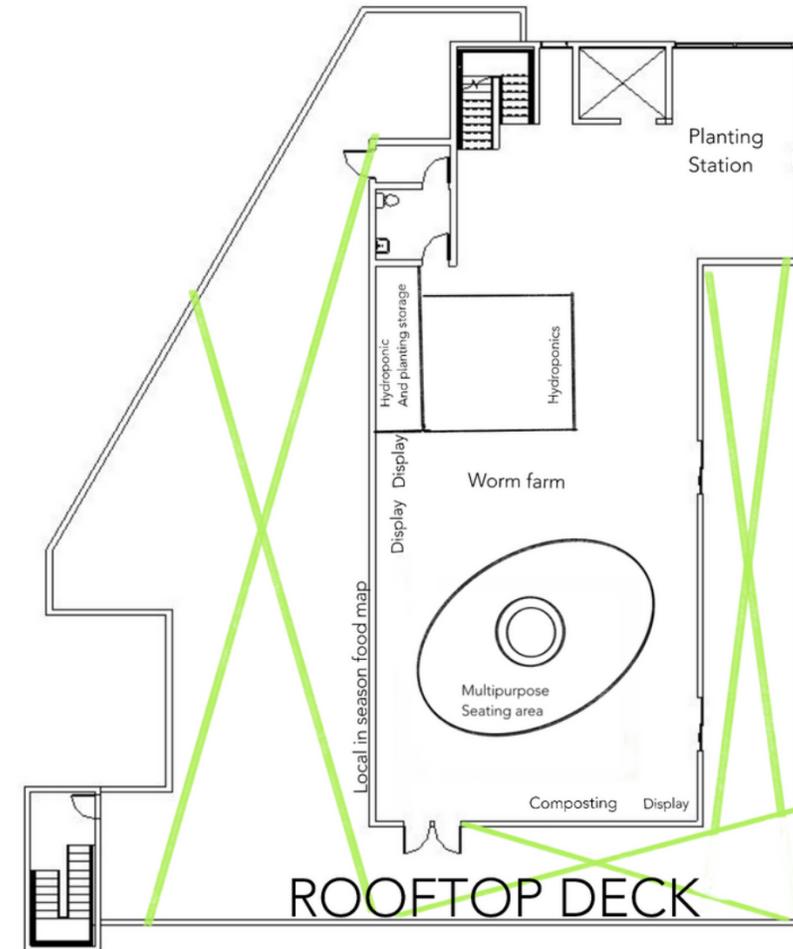
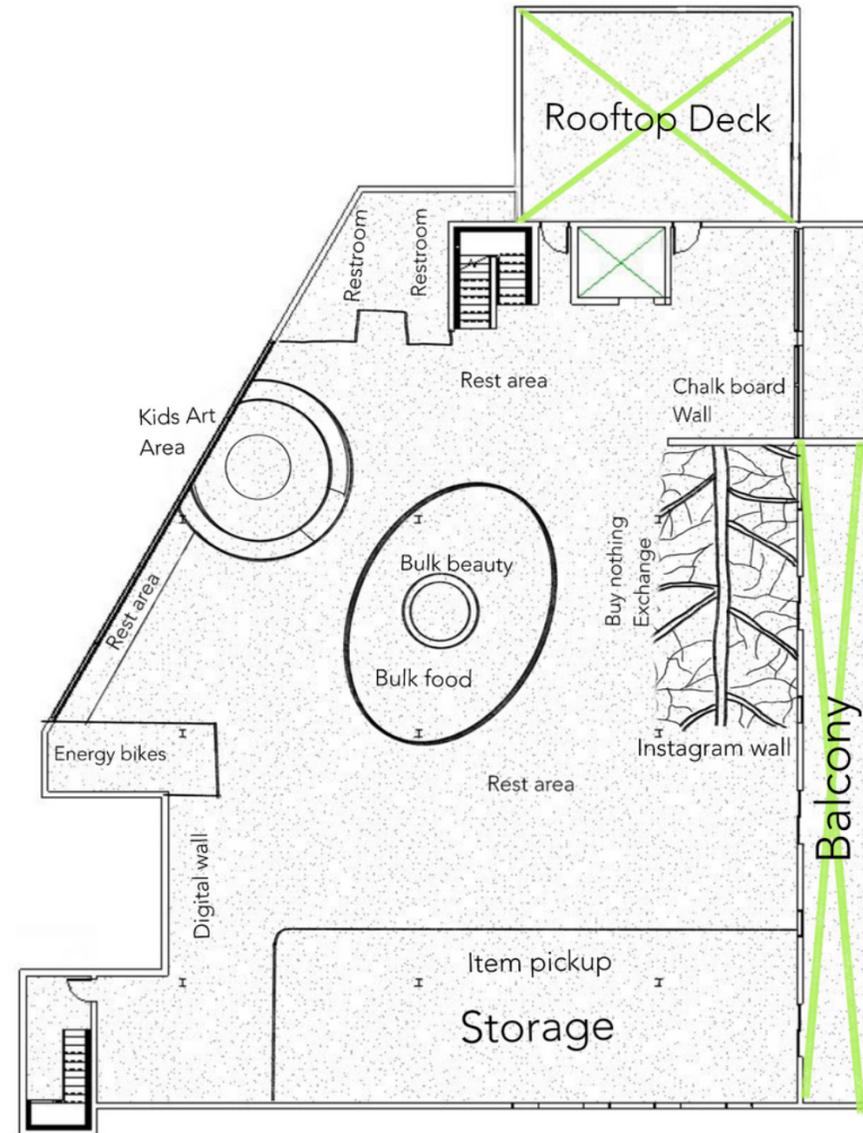
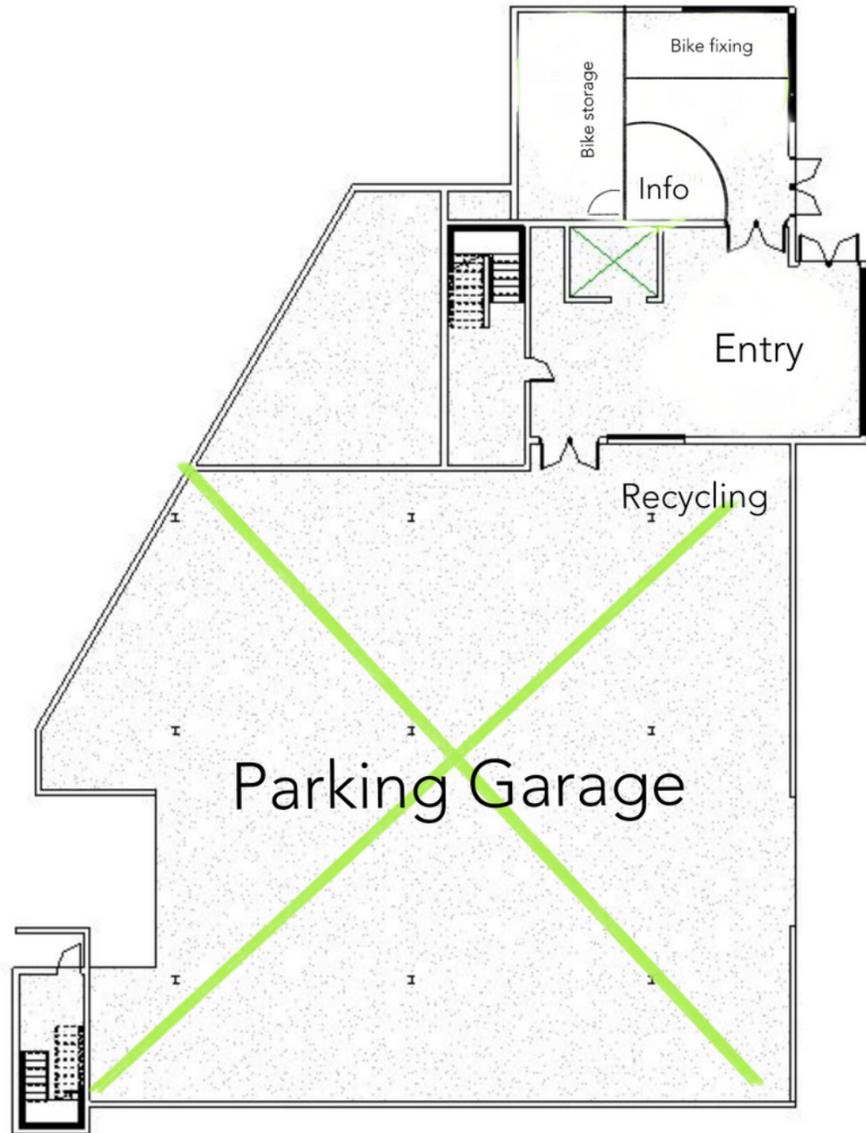
# Block Diagrams



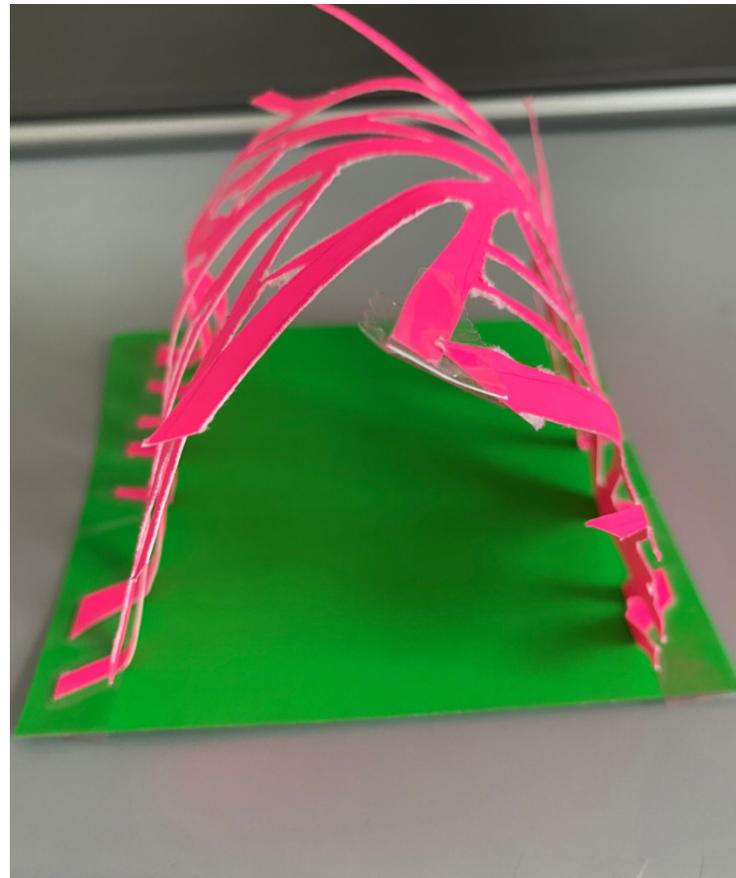
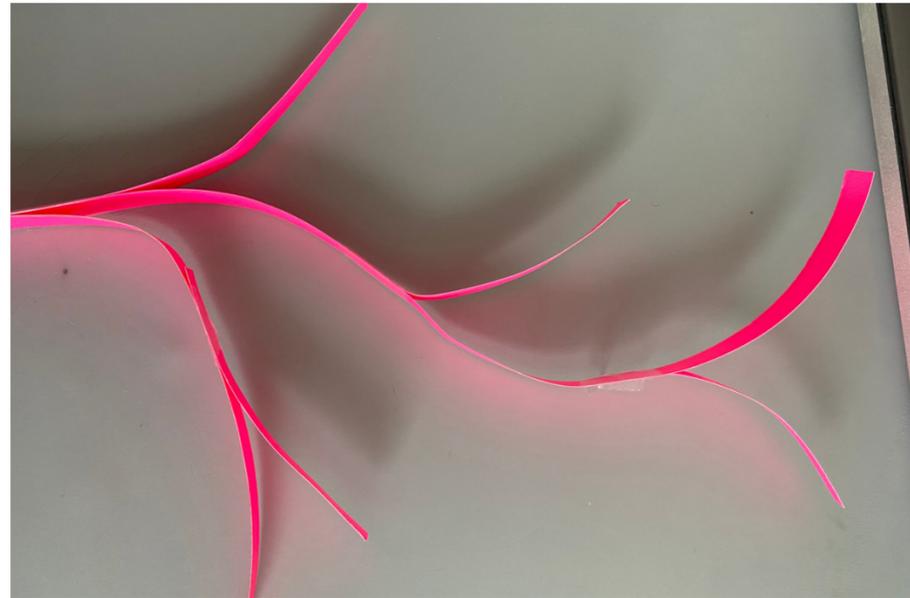
# Preliminary Floor Plans



# Preliminary Ceiling Plans



# Study Models



# Preliminary Materials



# Preliminary FFE



CALM



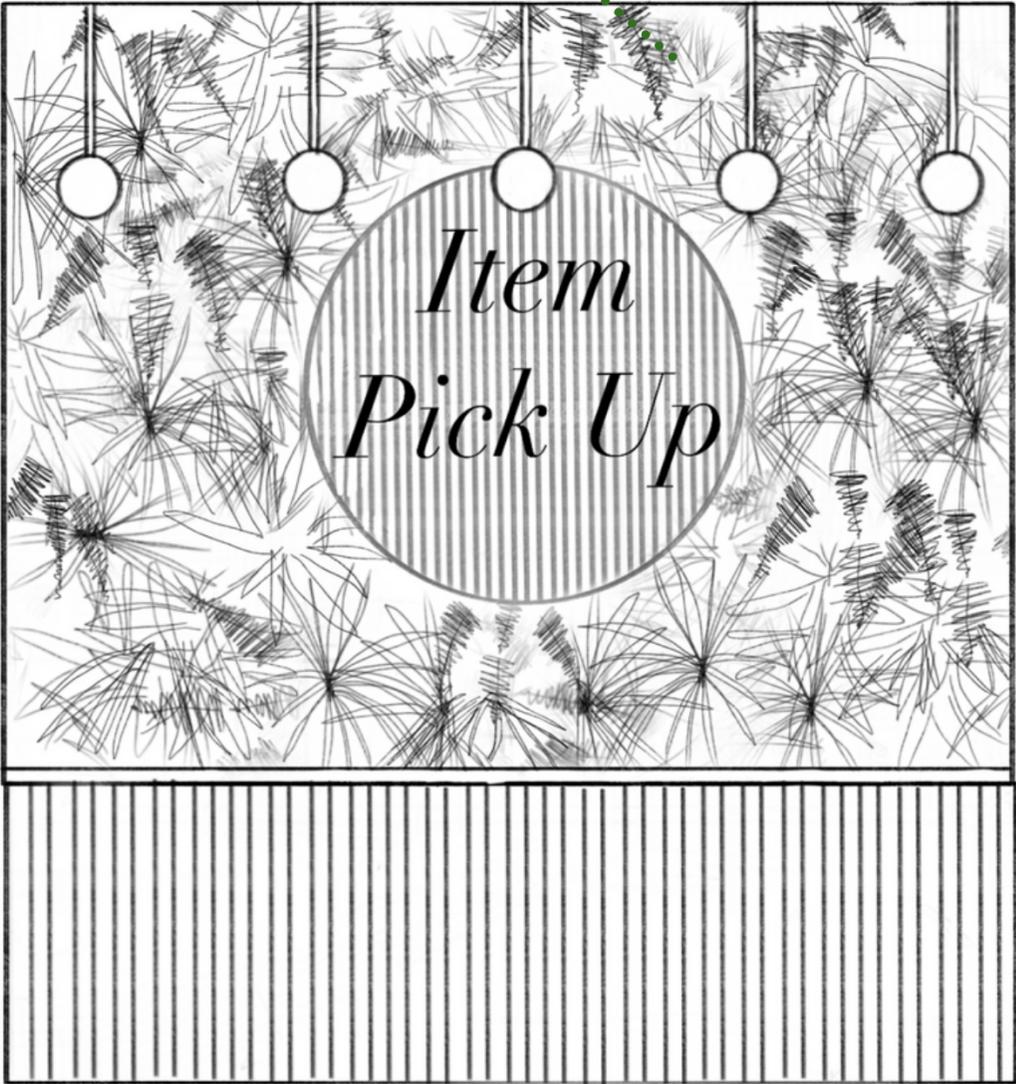
LETCHWORTH



TIA STOOLS

# Preliminary Elevations

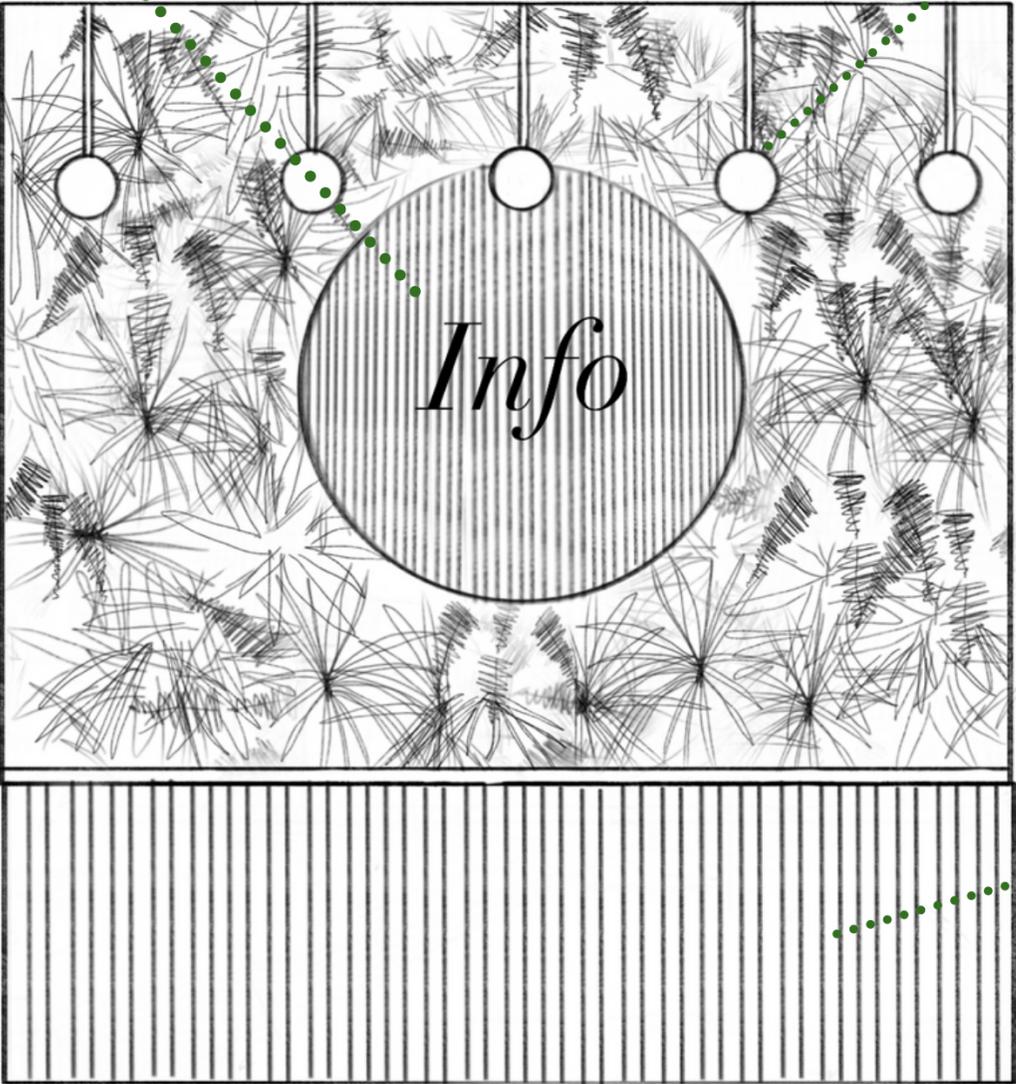
Live wall with thin wood slats running through the center in a circular pattern.



Item Pick Up Area

Elevated back lit lettering on top of slats.

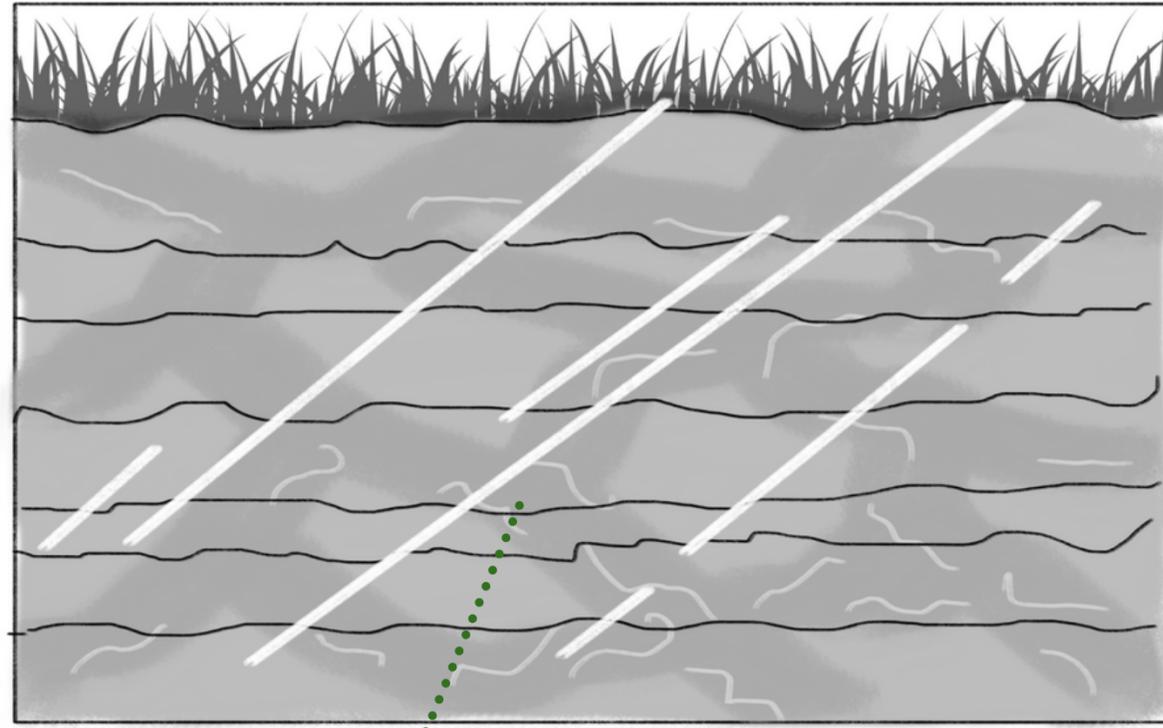
Modern globe pendant lighting



Marble counter with thin wood slat siding

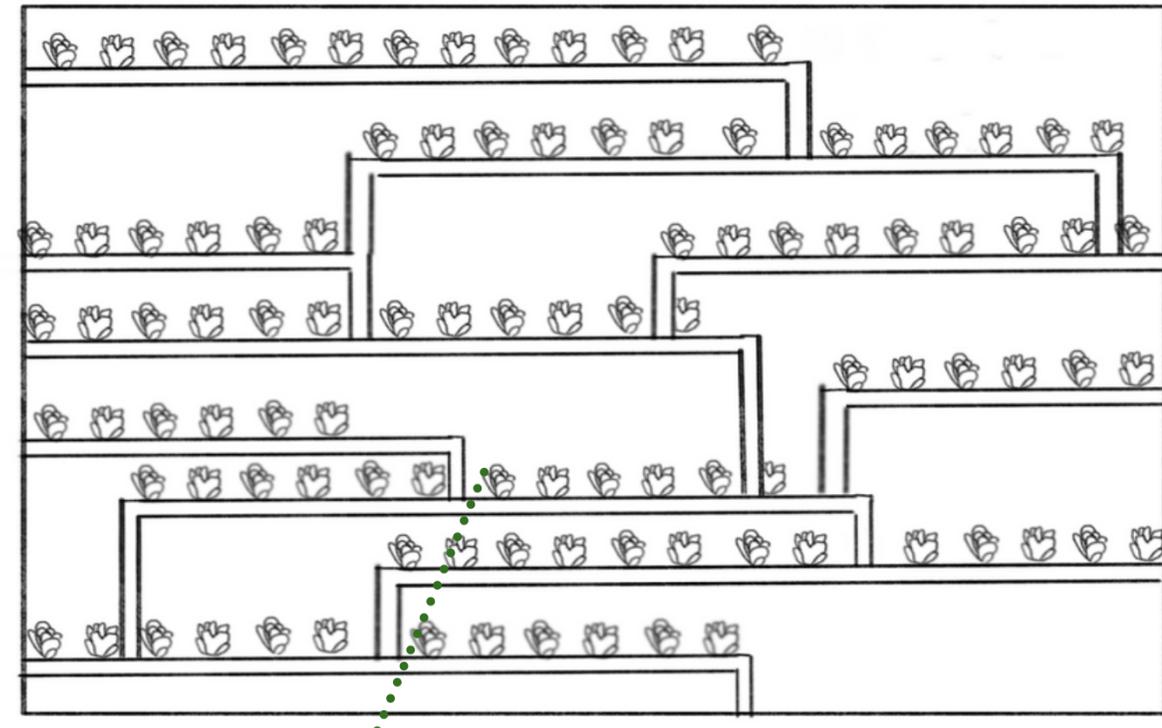
Information Area

# Preliminary Elevations



Worm farm- wall made of acrylic panels filled with dirt and worms

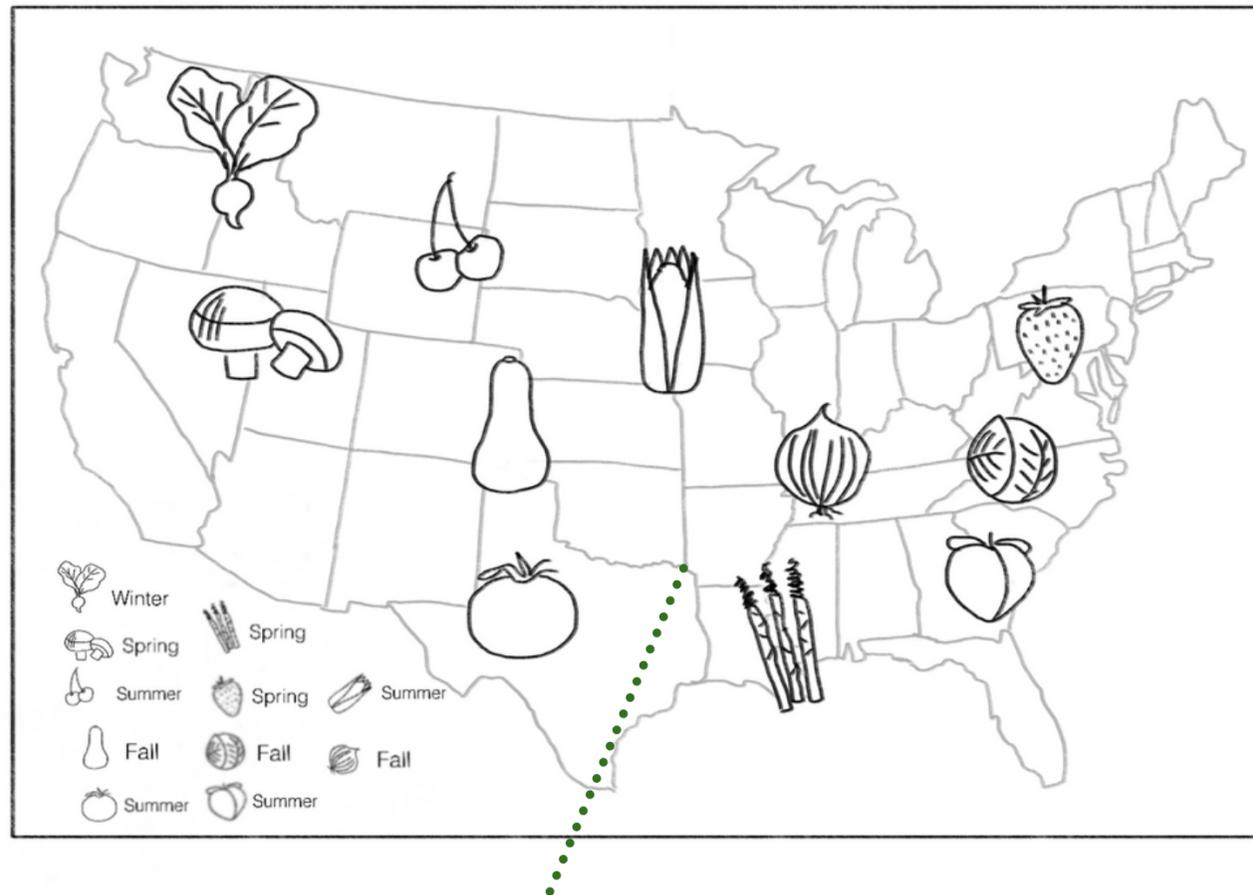
Worm Wall



Vertical hydroponic system made of PVC pipes

Wall behind hydroponics display

# Preliminary Elevations



Large touch screen for what food is in season and where around the United States.

Food Map Wall



Thin horizontal slats with plants randomly scattered on the wall. Lettering is raised and back lit.

Wall for the Buy Nothing Exchange wall

# Preliminary Elevations

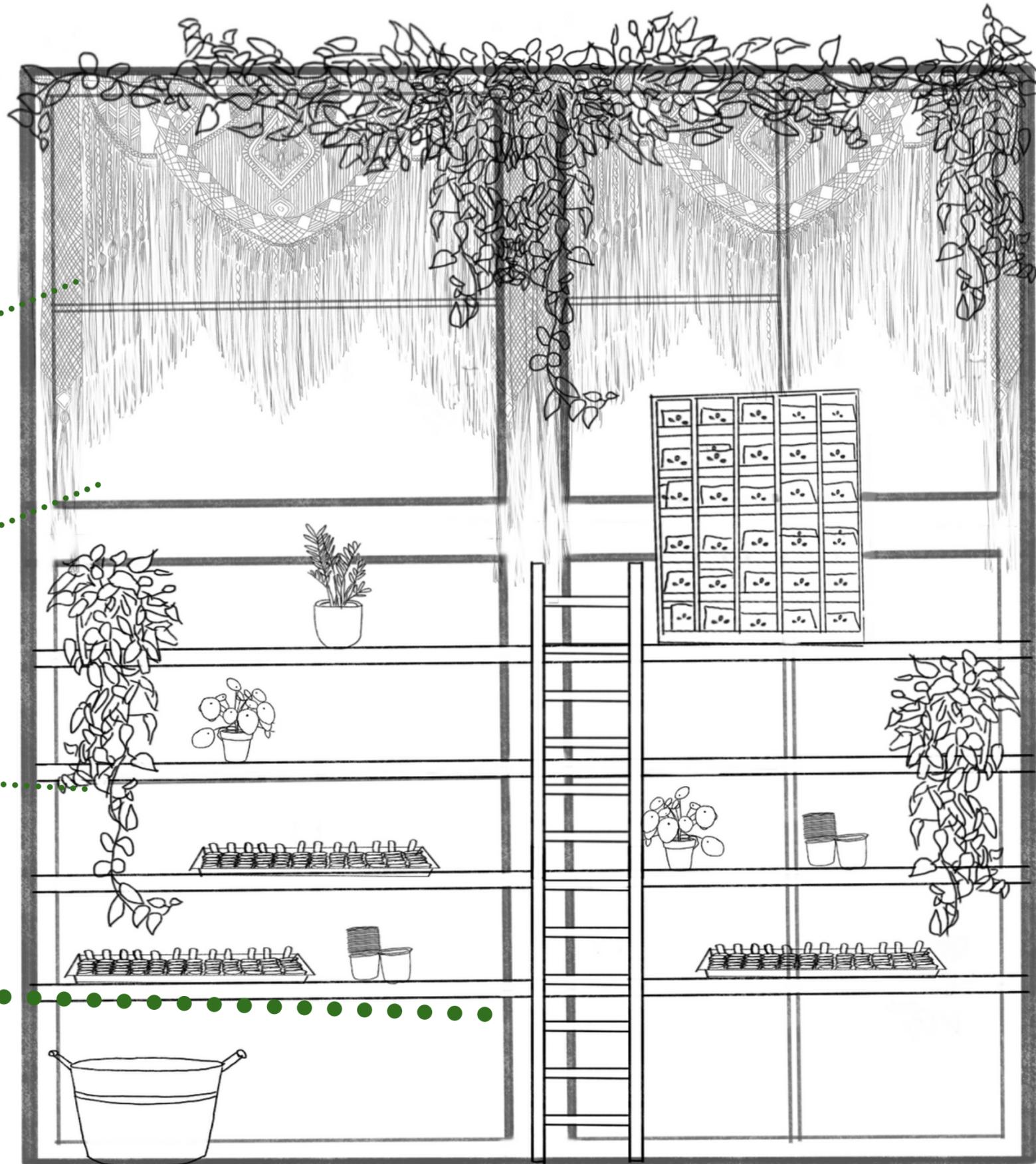
## Planting Area

Macrame and hanging plants on the upper part of the windows for letting dappled light in.

Large double height windows

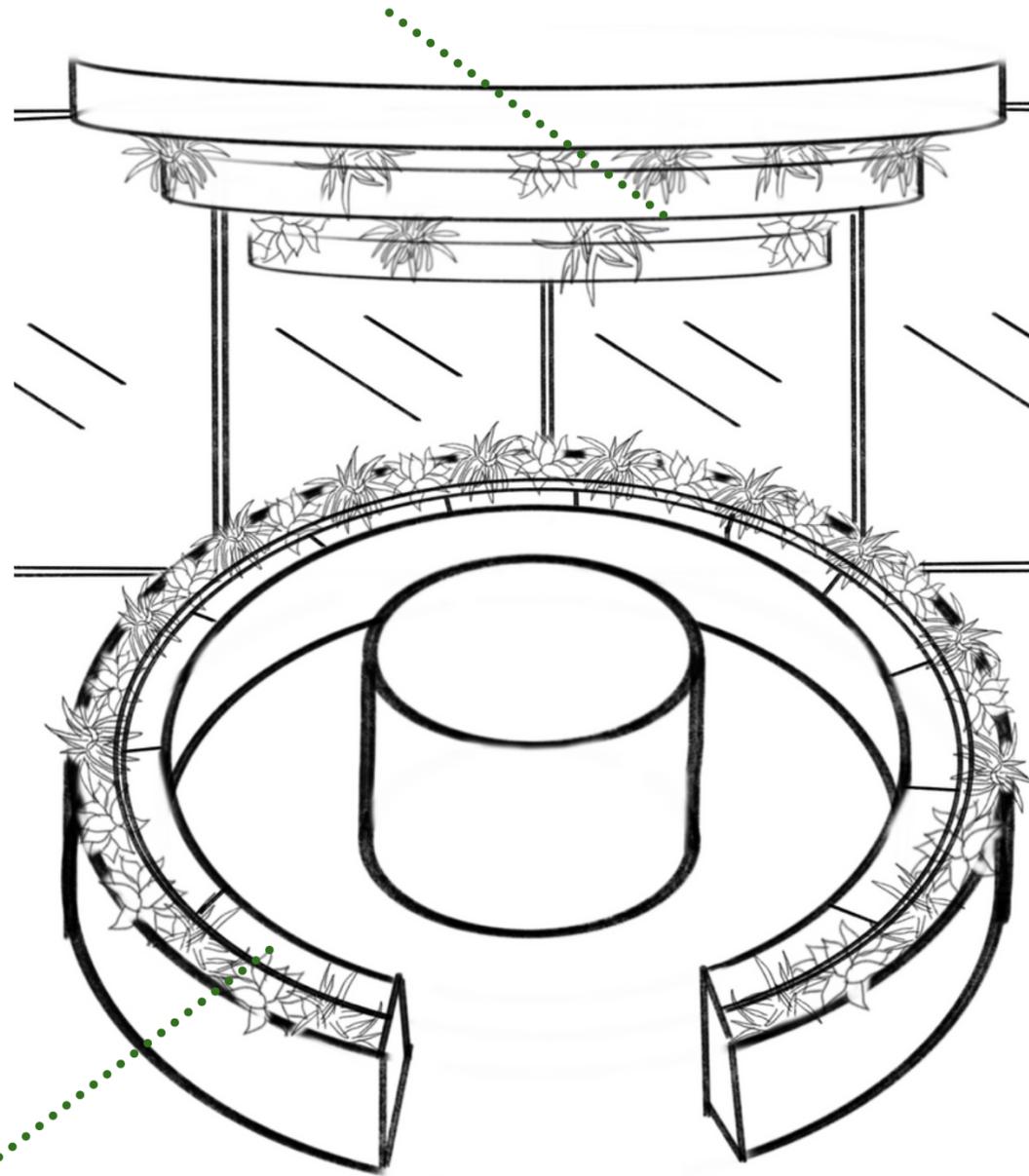
Shelving running across the entire width of the wall

Sliding ladder to reach the upper shelving



# Preliminary Perspectives

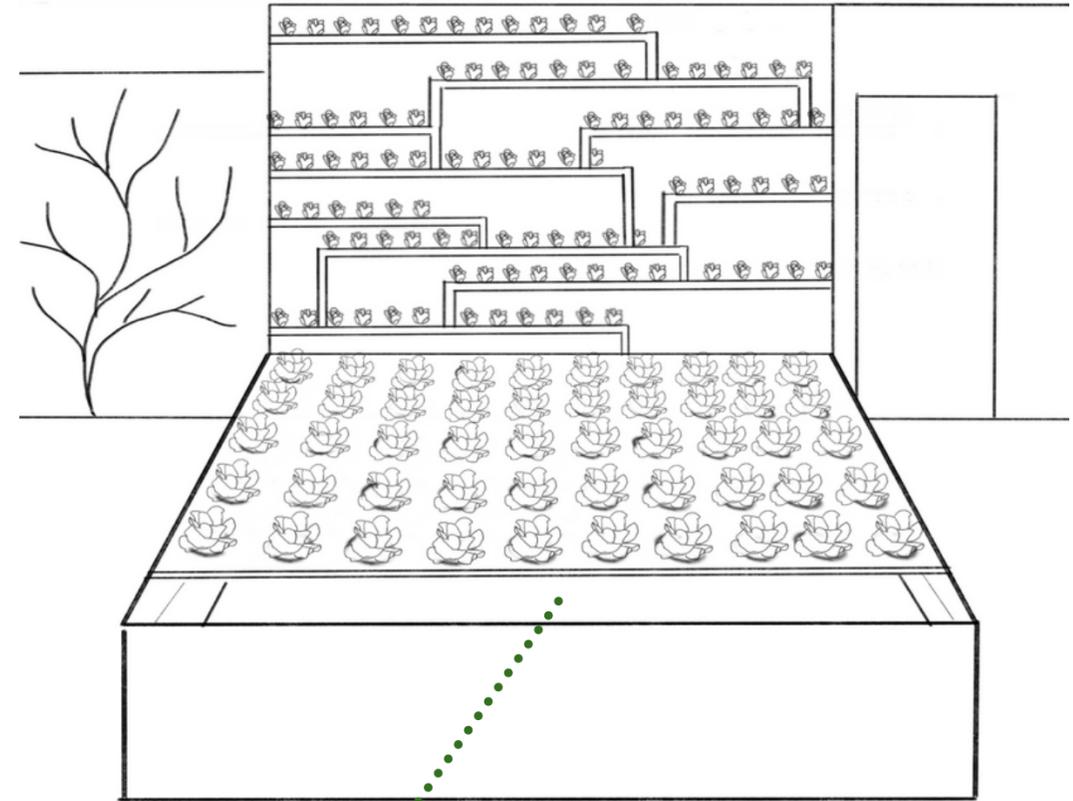
Dropped ceiling with cove lighting and plants hanging from the coves



Seating around area with planters behind seating

Children's Crafting Area

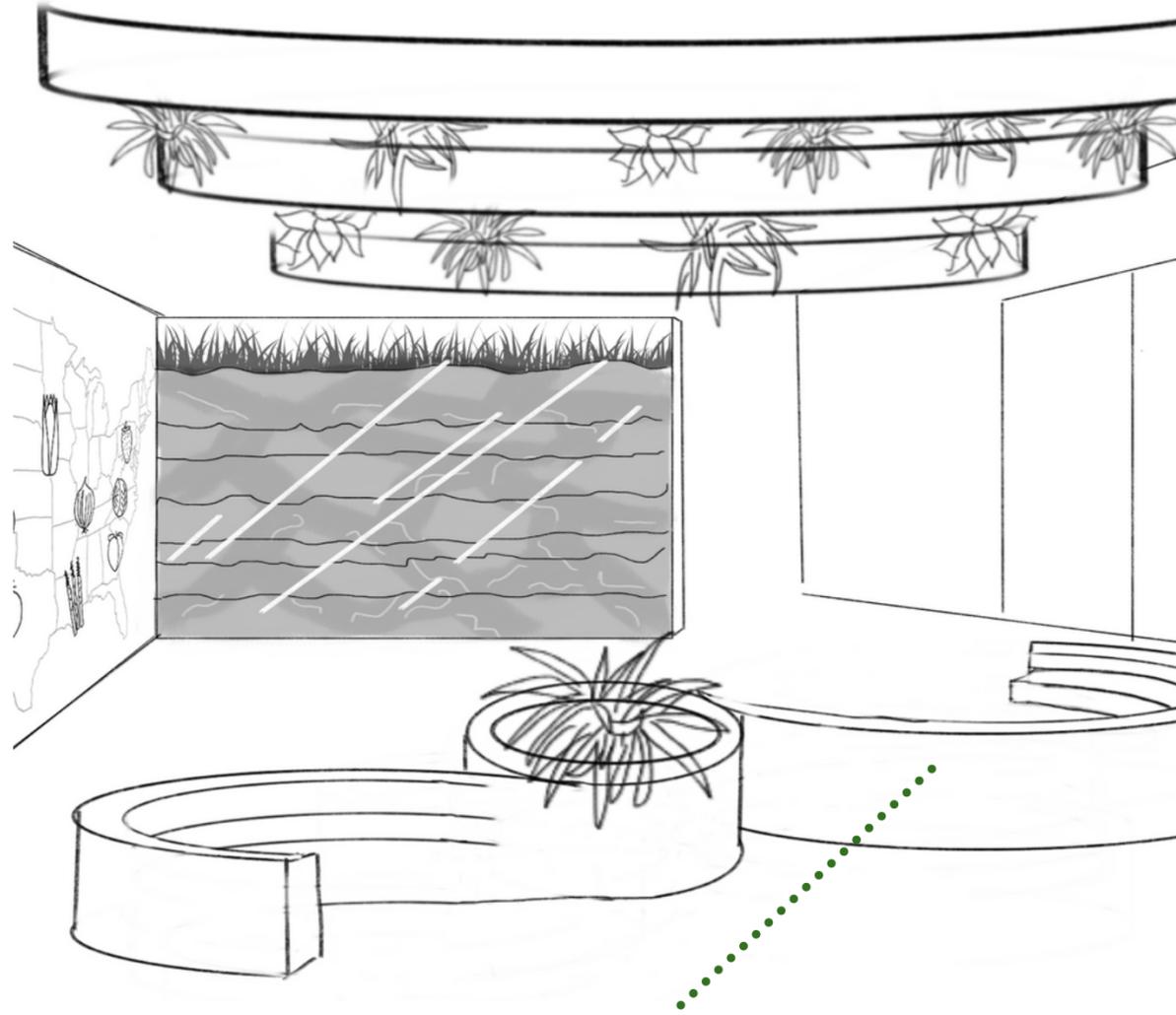
Branch product display shelves



Opening to see water, fish and roots below the plants

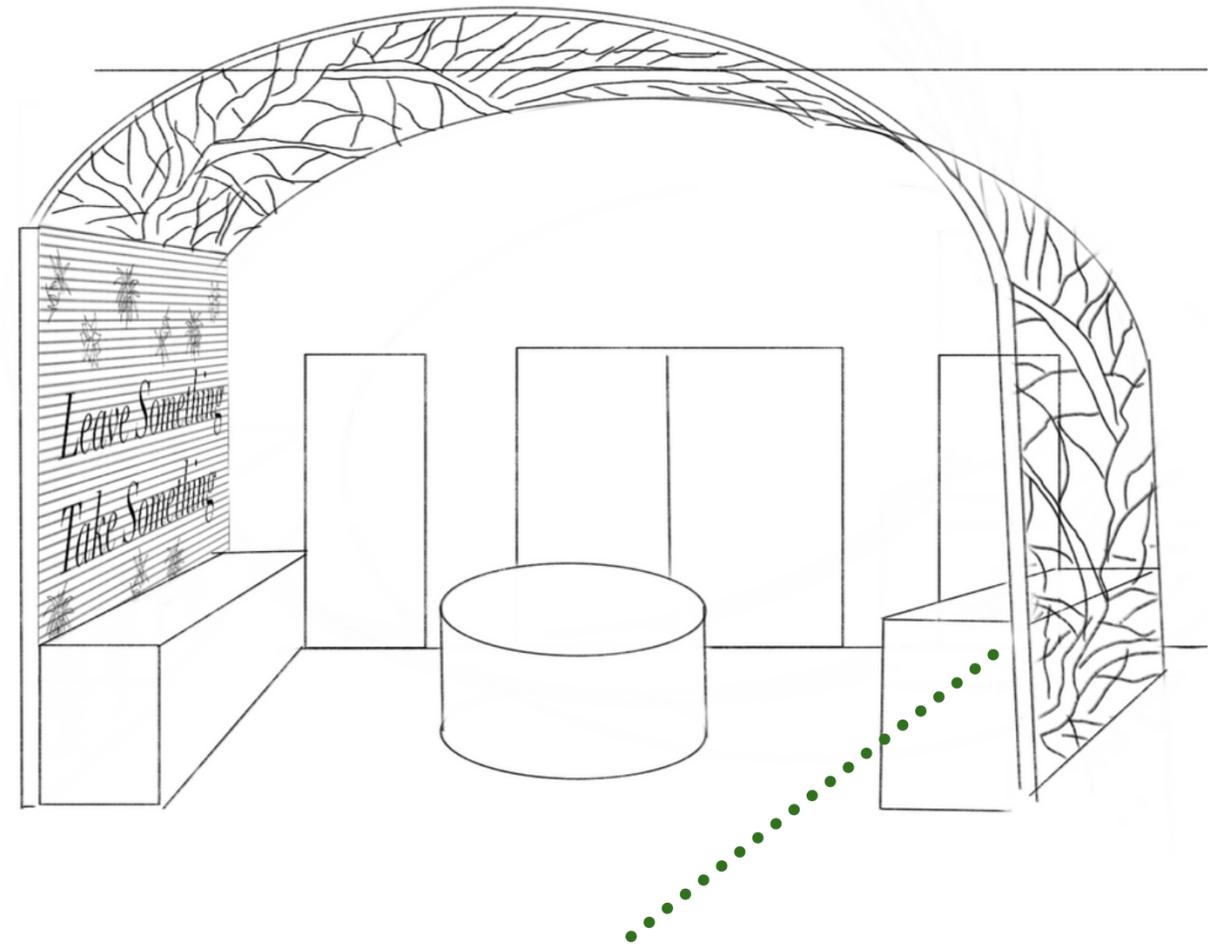
Hydroponics System

# Preliminary Perspectives



Seating mirrors Bulk product display area

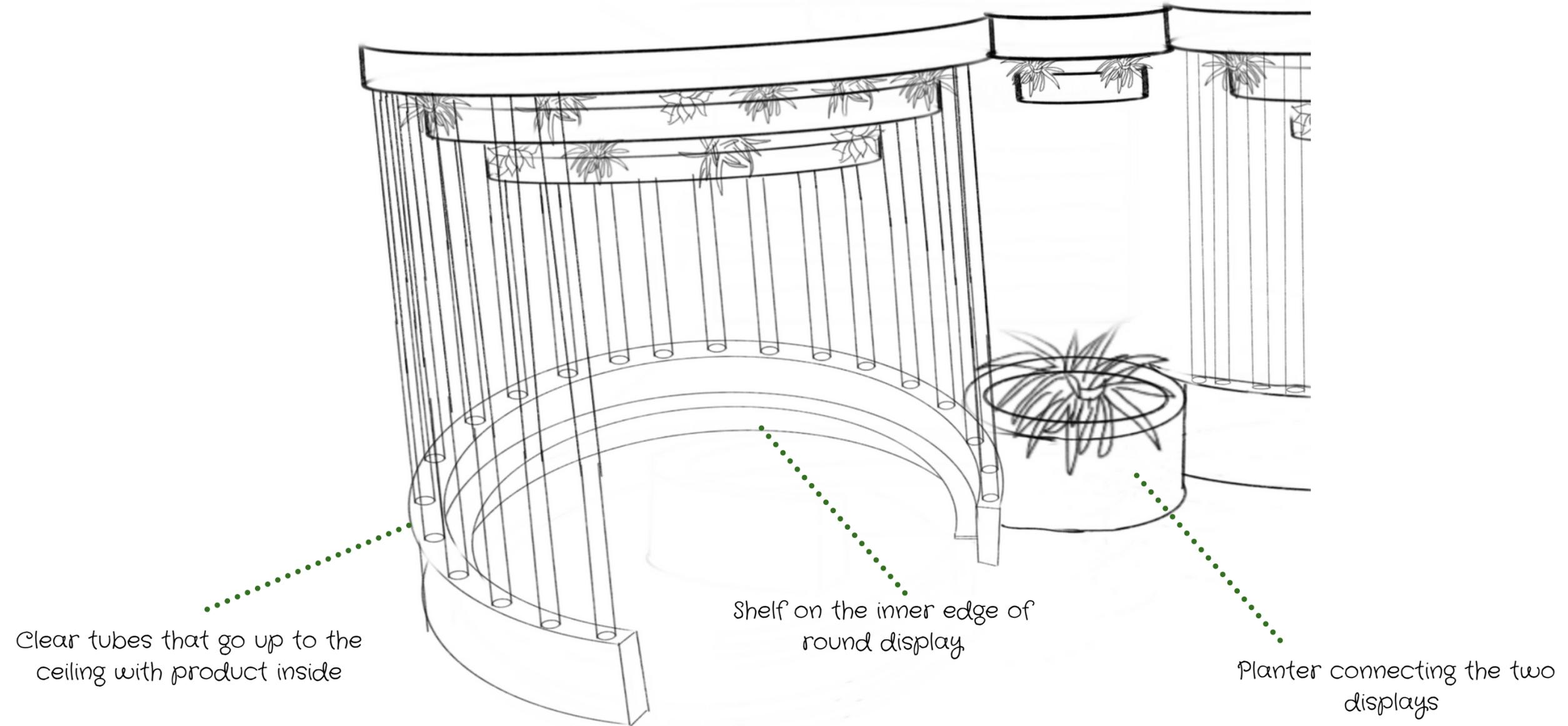
Multipurpose Meeting Area



Arch with the pattern of a leaf's veins. Able to see through it.

Buy Nothing Exchange Area

# Preliminary Perspectives

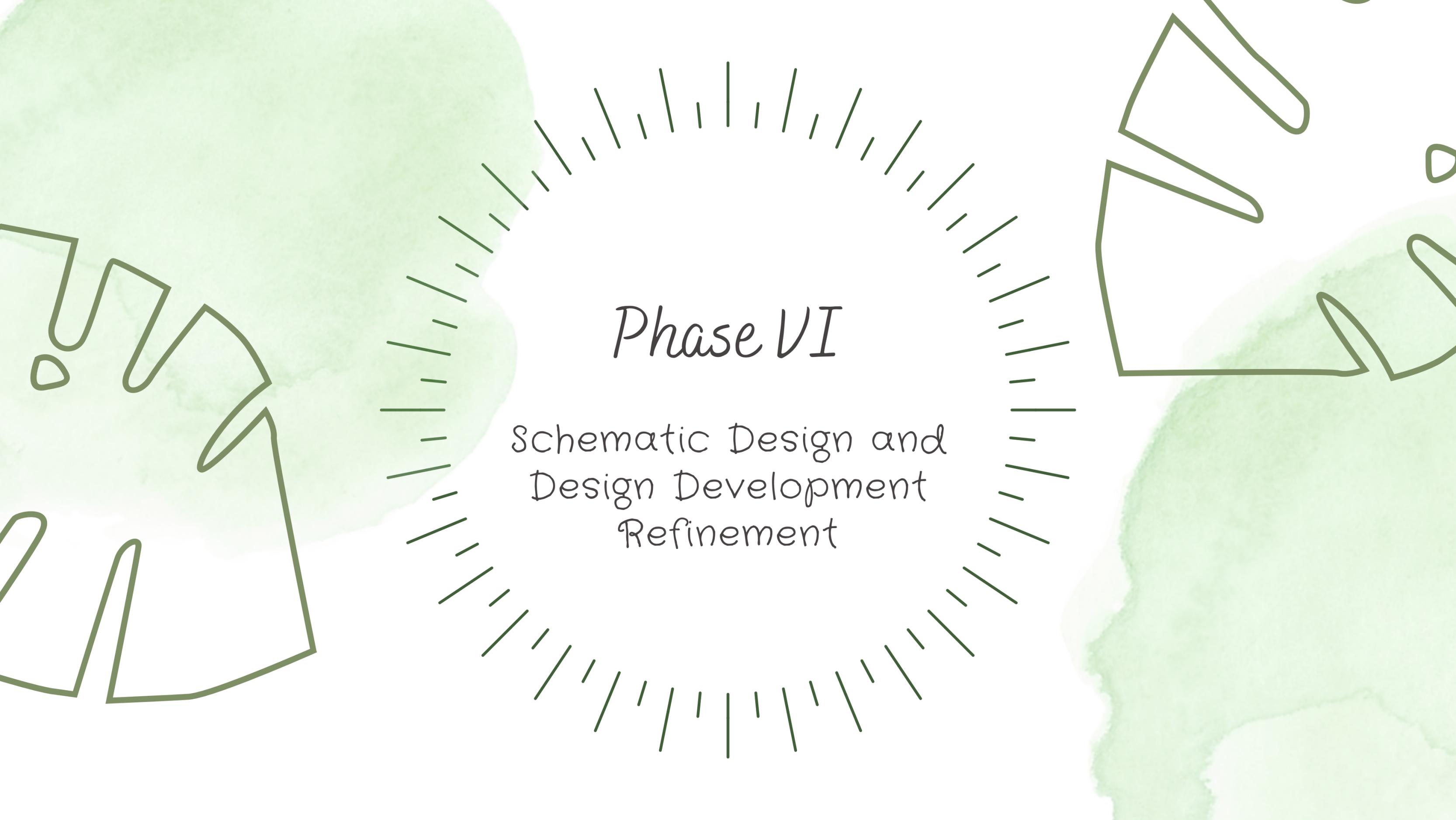


Clear tubes that go up to the ceiling with product inside

Shelf on the inner edge of round display

Planter connecting the two displays

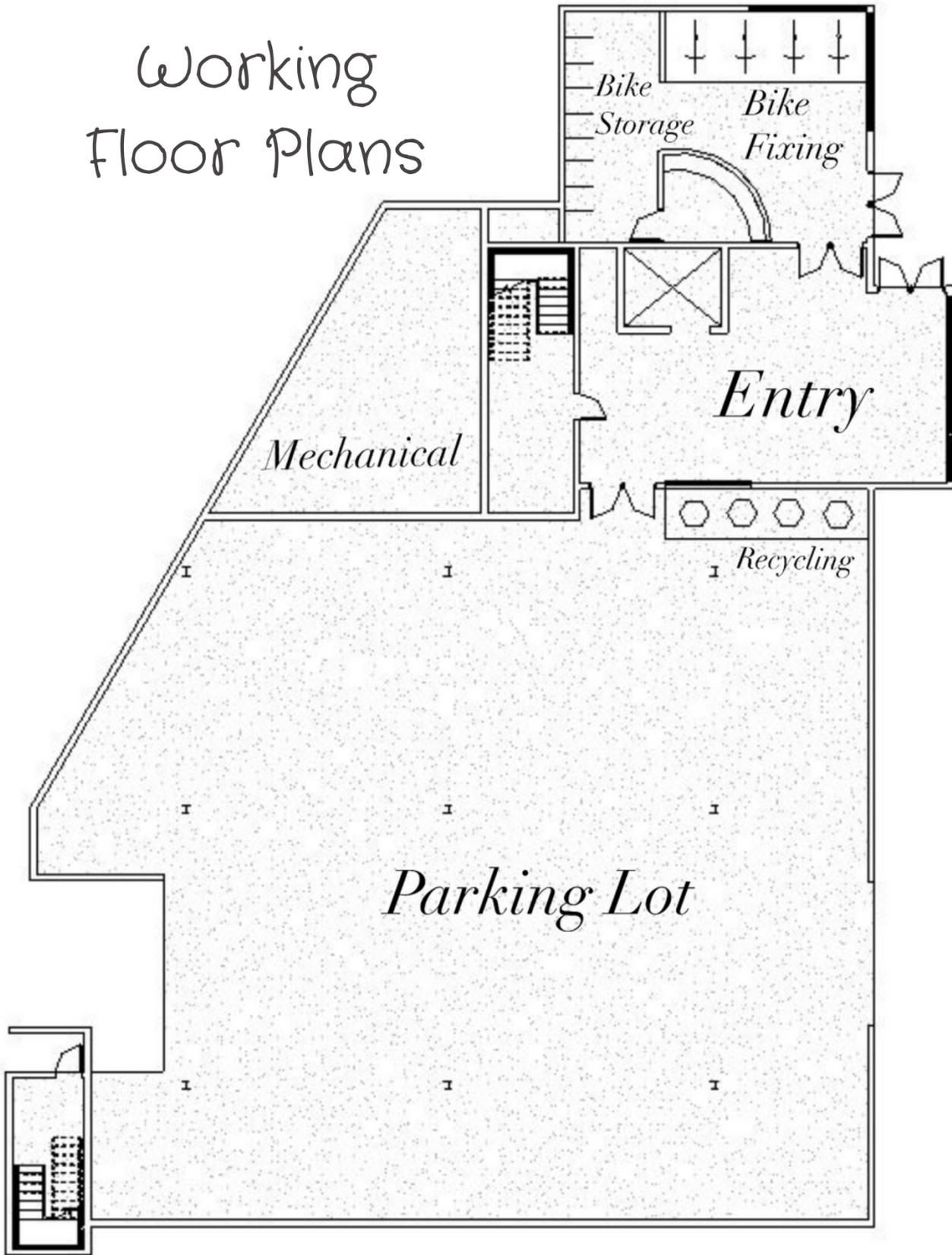
Bulk Item Area



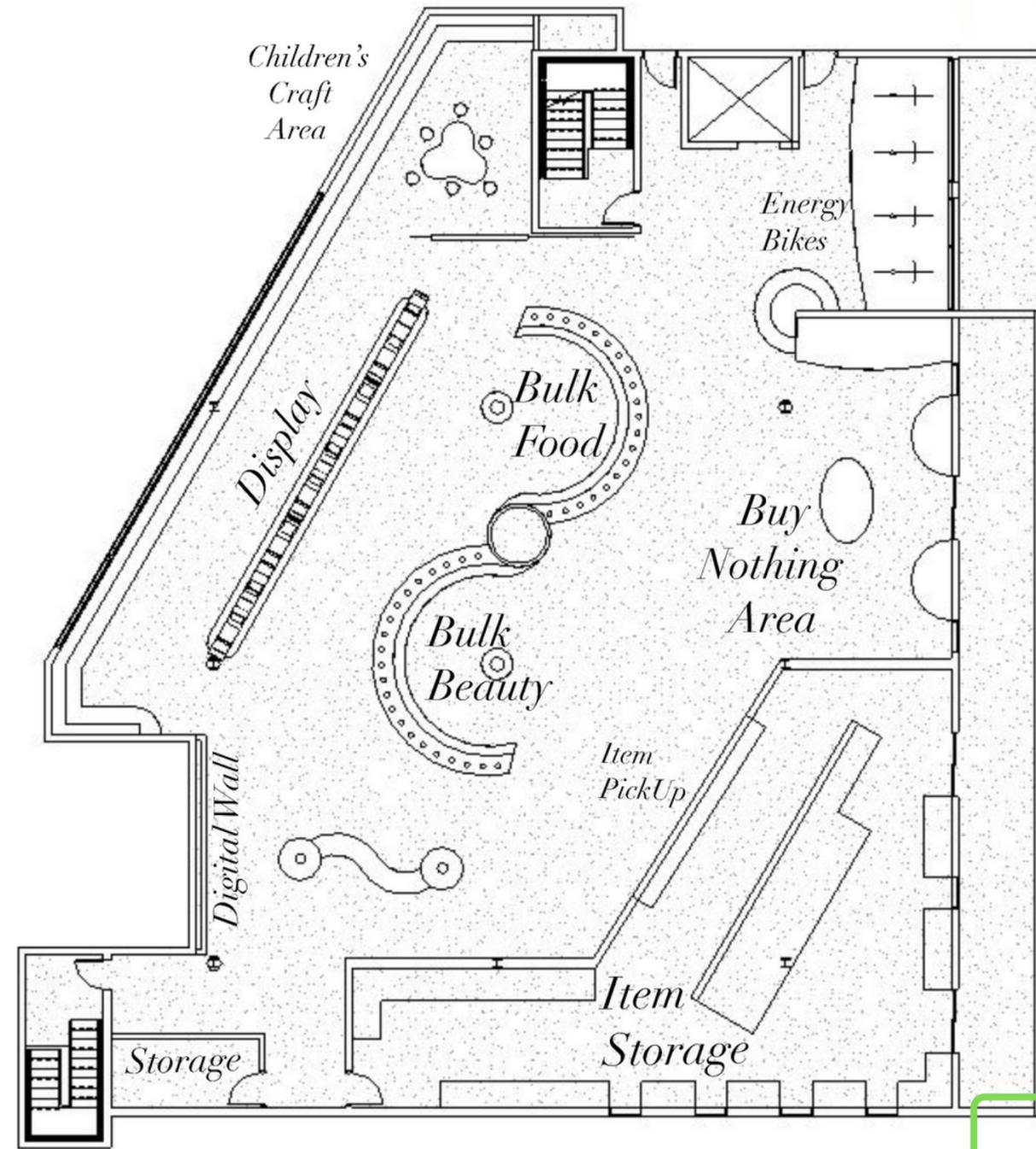
# Phase VI

Schematic Design and  
Design Development  
Refinement

# Working Floor Plans



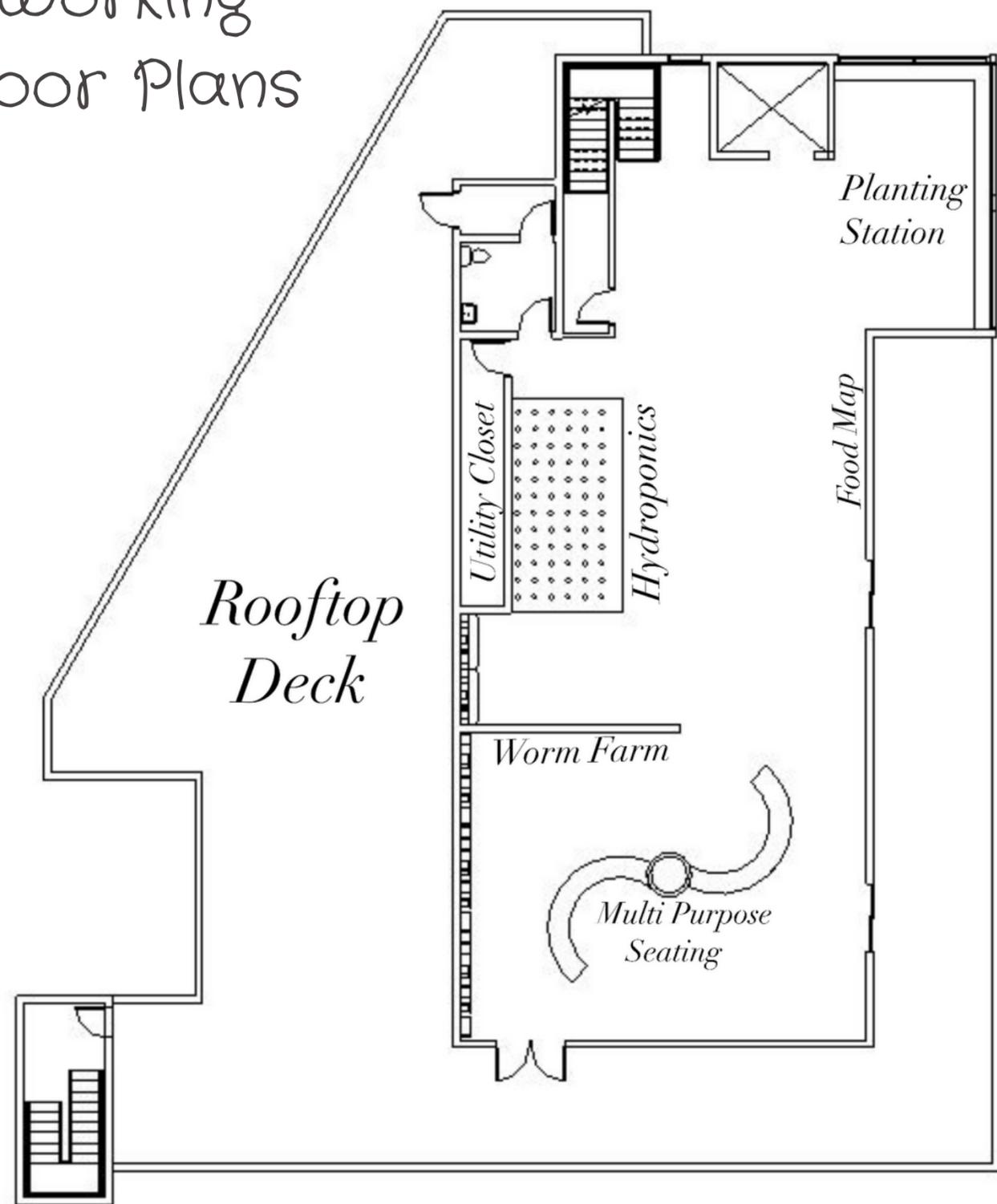
First Floor



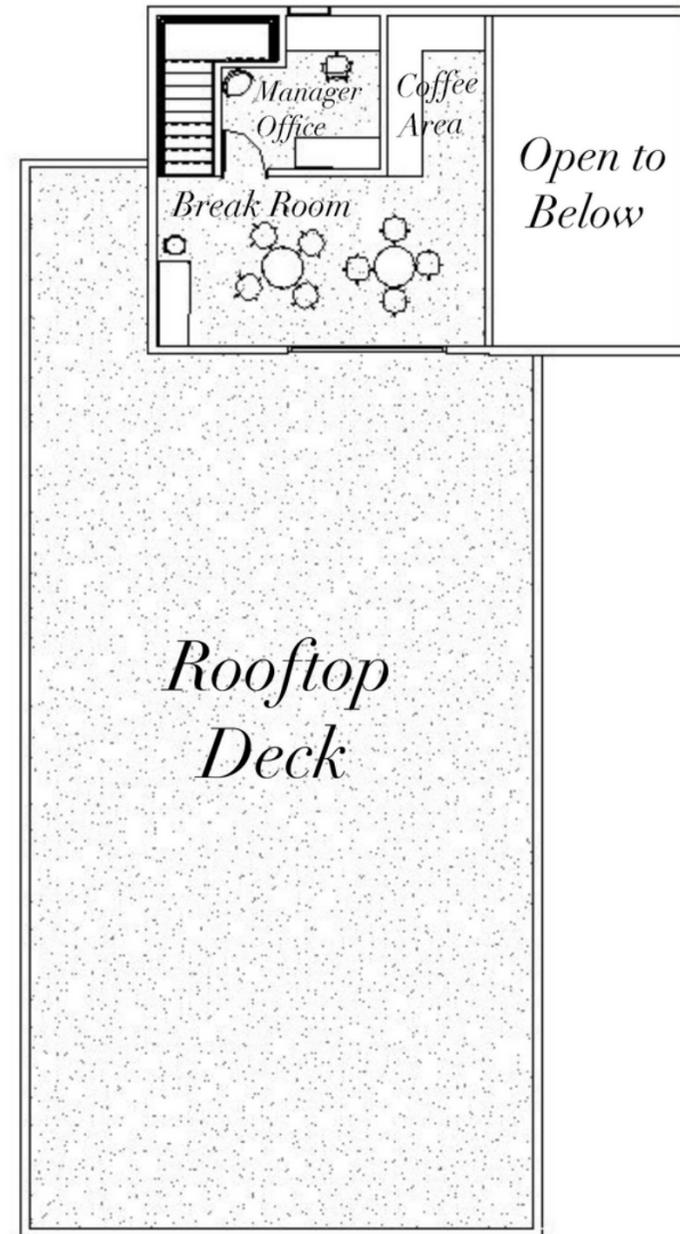
Second Floor



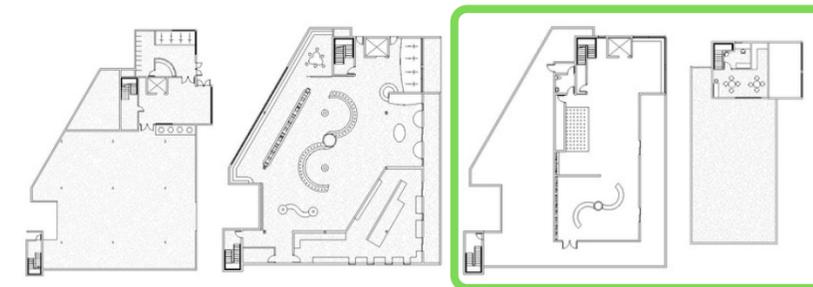
Working Floor Plans



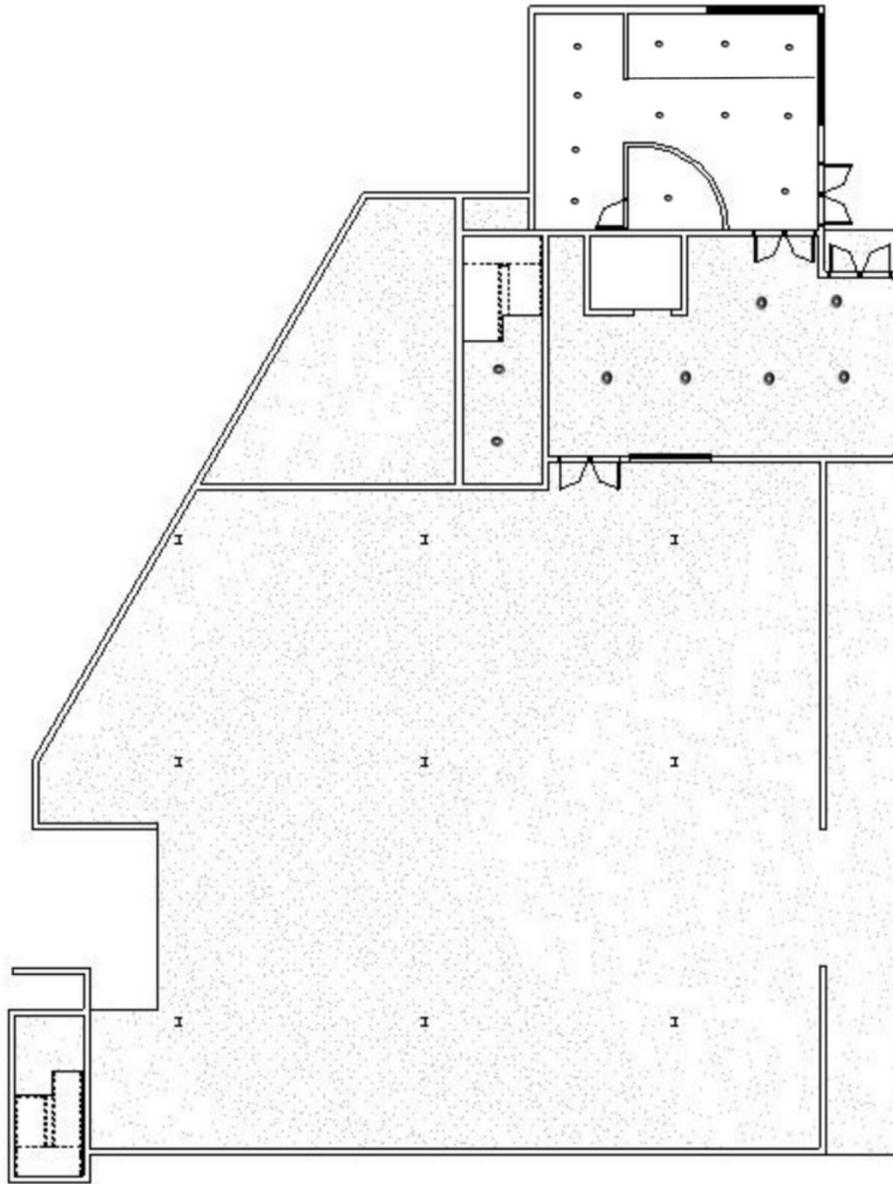
Third Floor



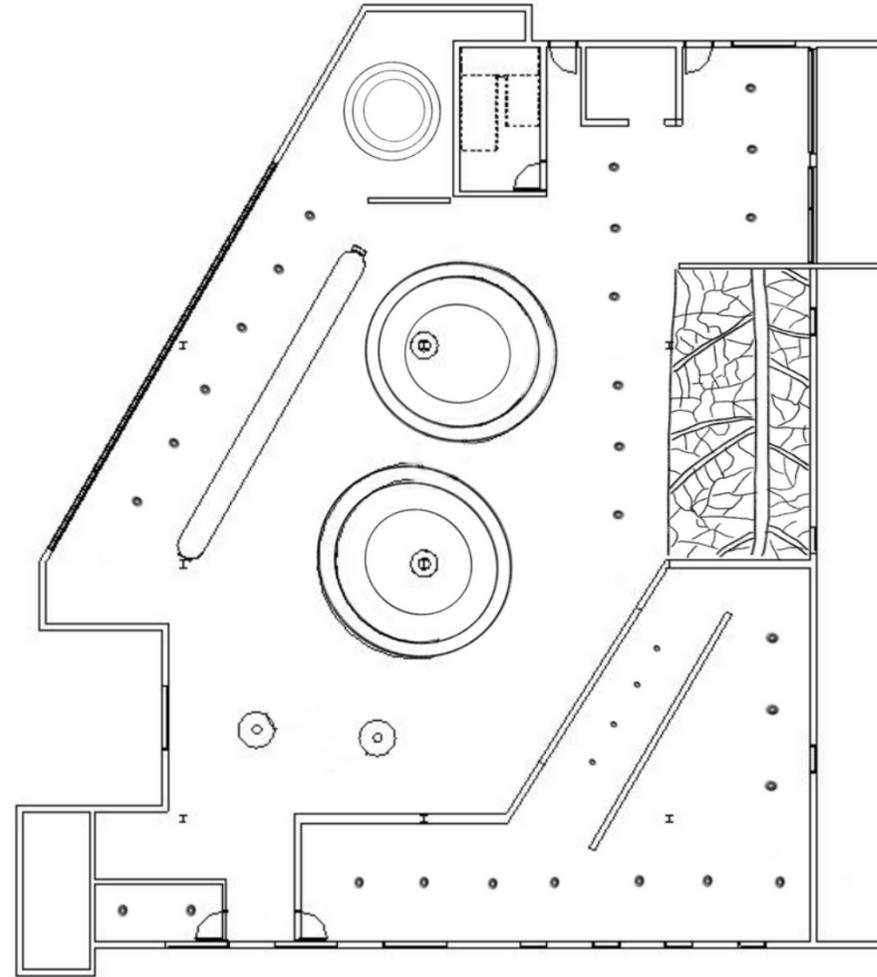
Mezzanine



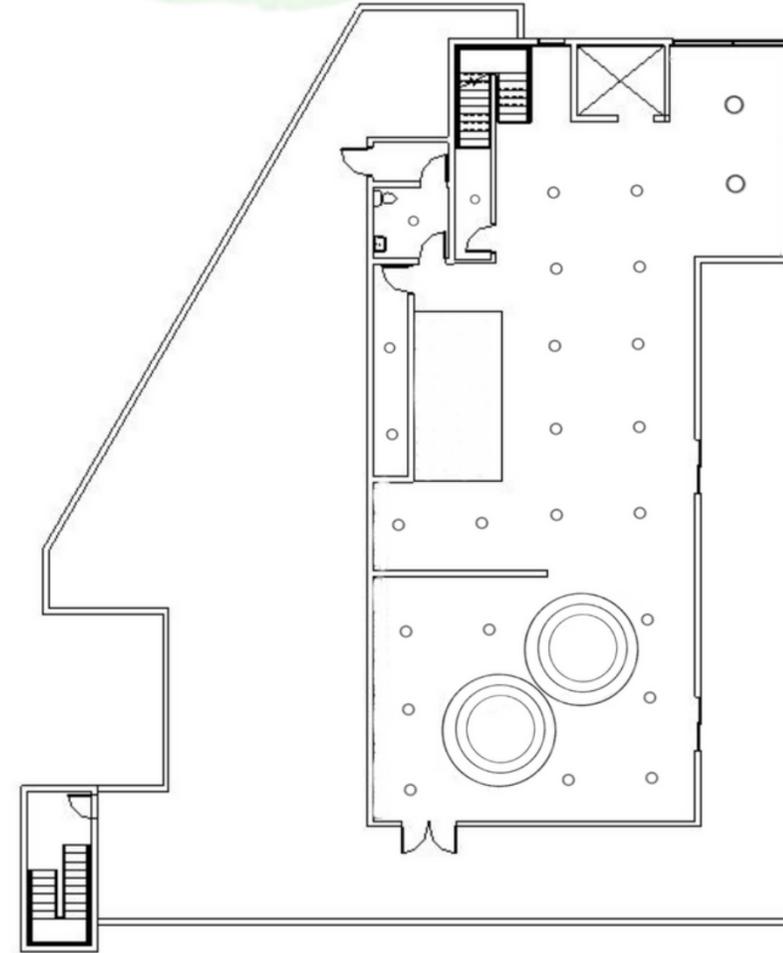
# Working Ceiling Plans



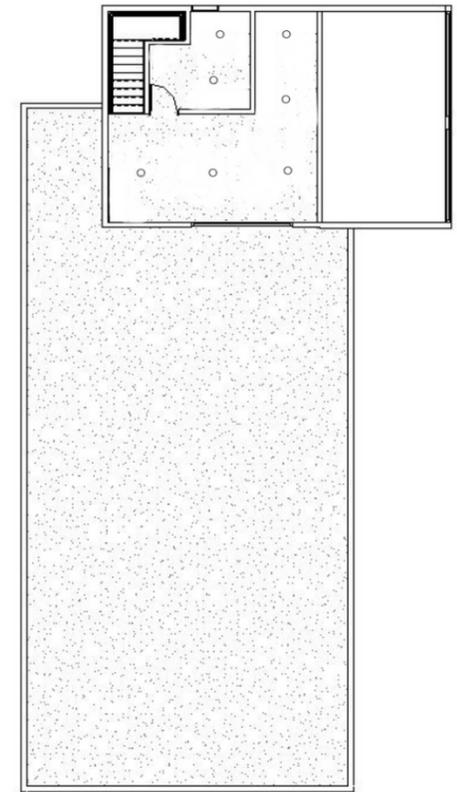
First Floor



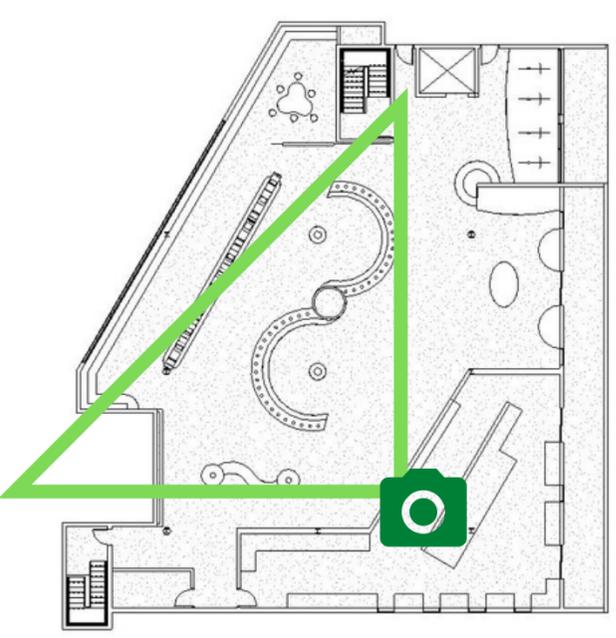
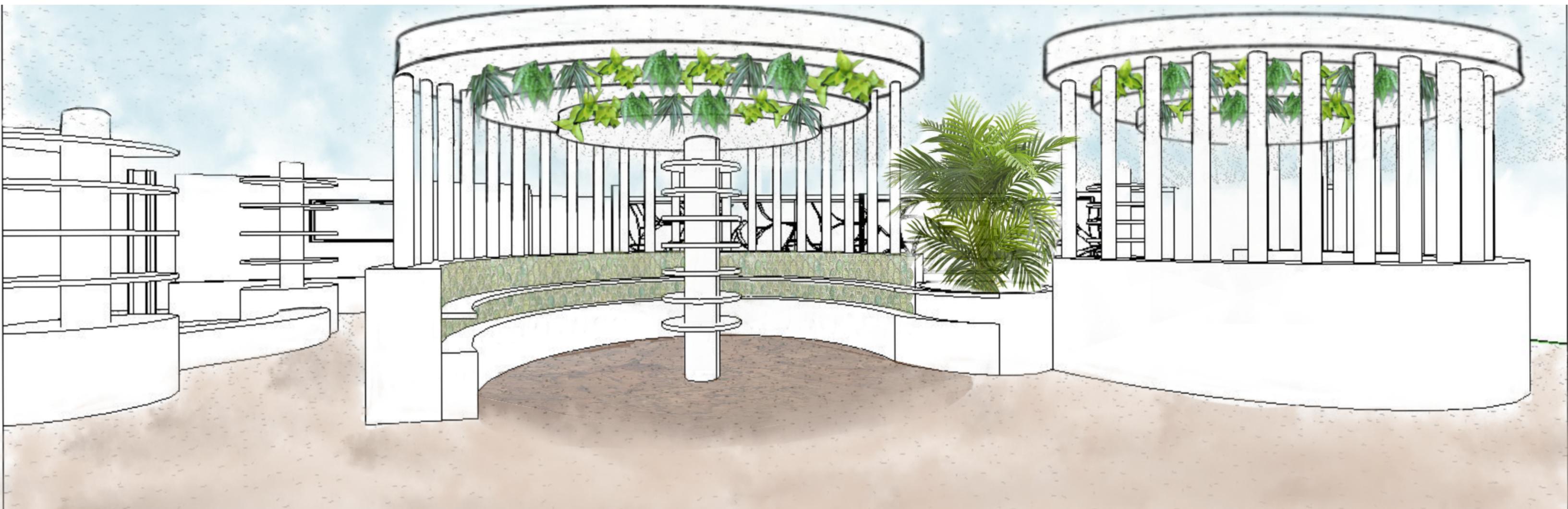
Second Floor



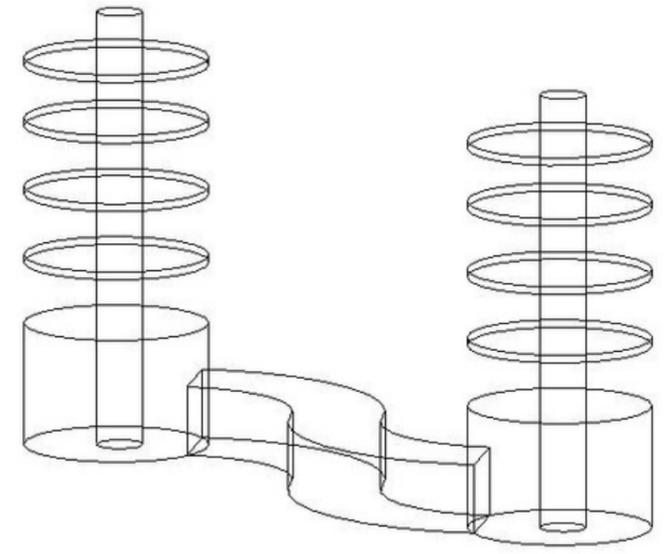
Third Floor



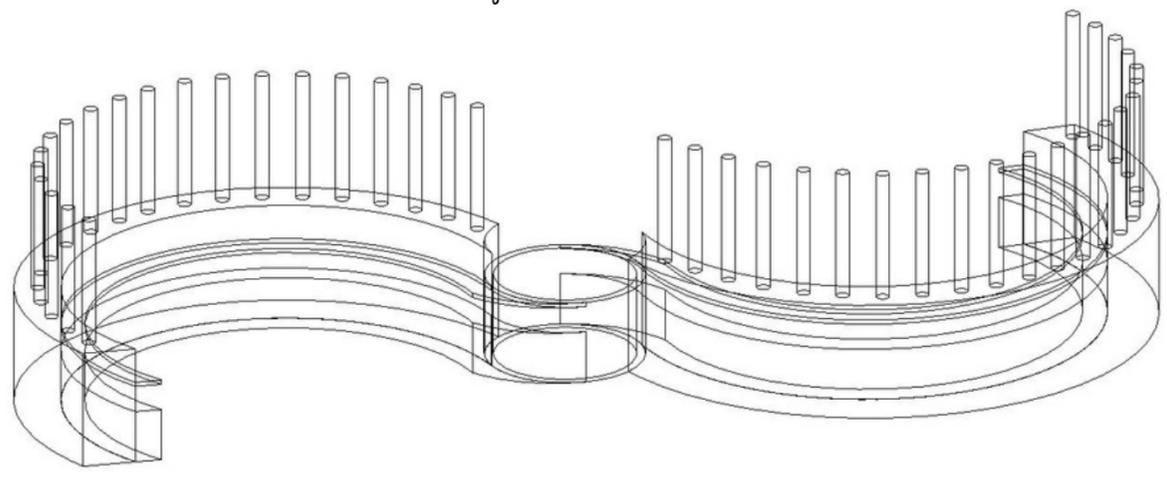
Mezzanine



Display that also functions as seating



Bulk products stored in tubes



Bulk Display



Wood Flooring



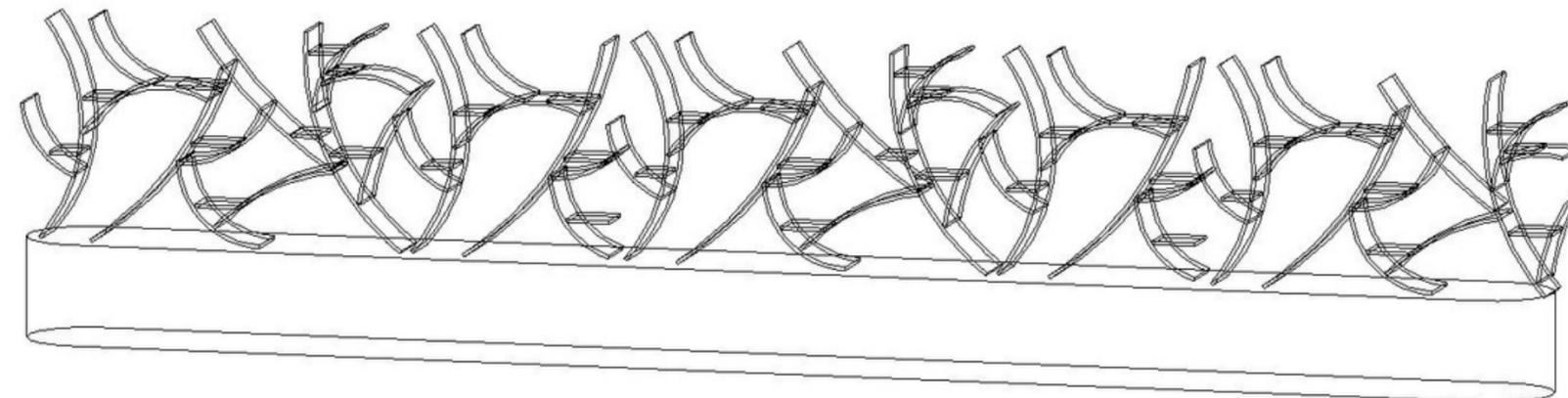
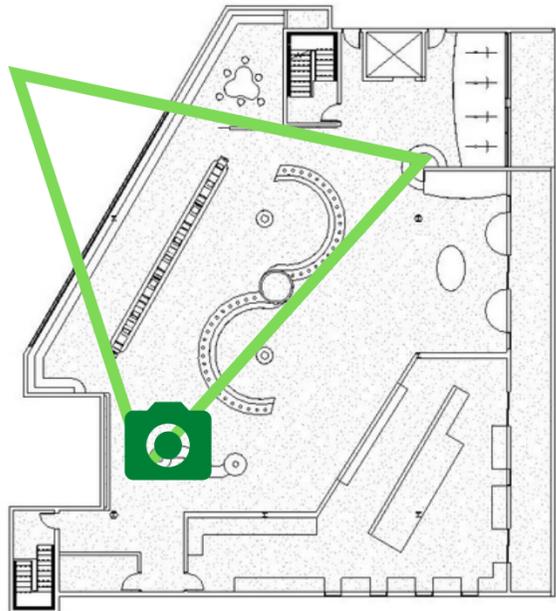
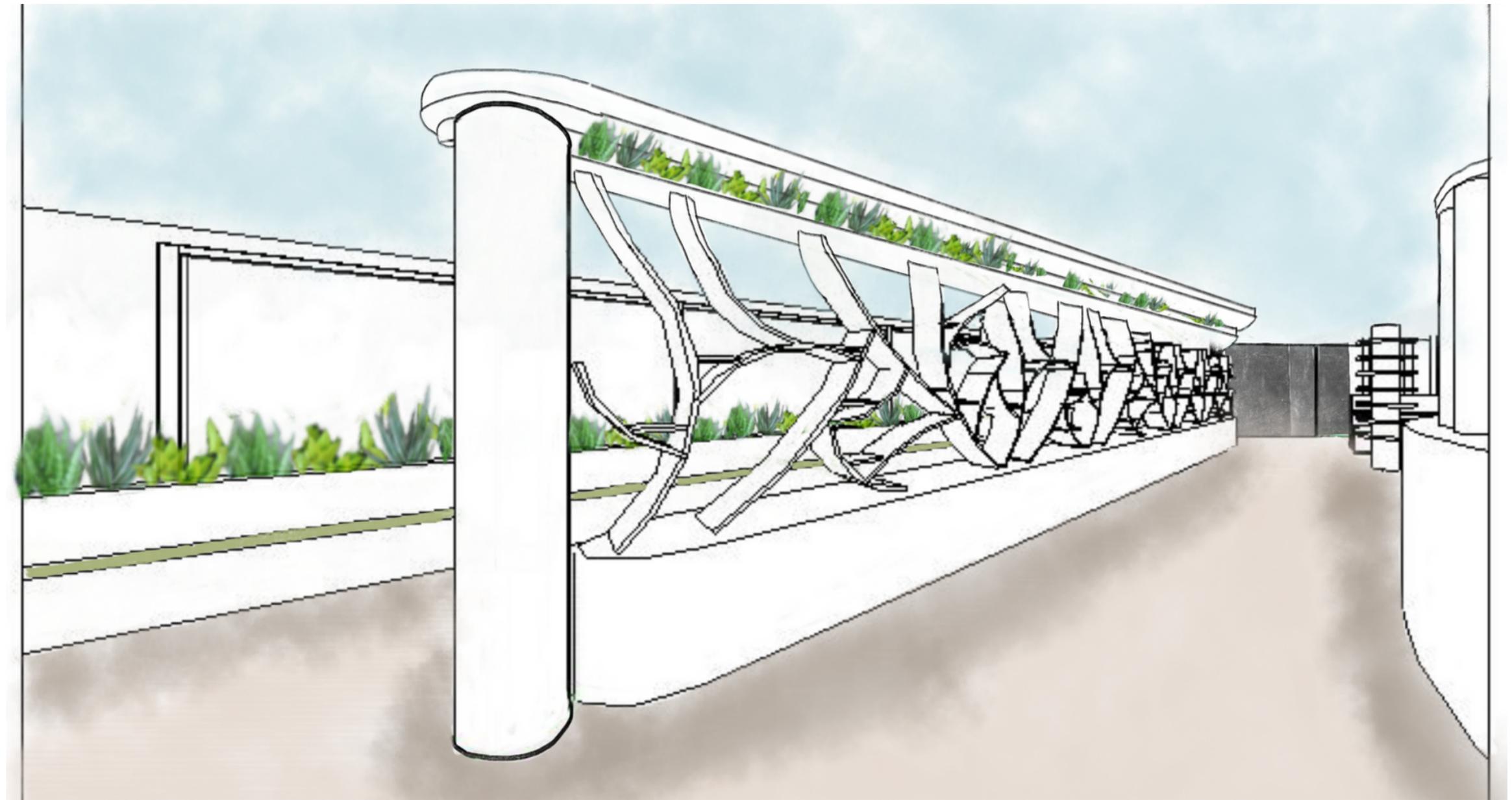
Cork Flooring



Paint



Upholstery



Display that also functions as a partition

Product Display



Elemental Resin Surface



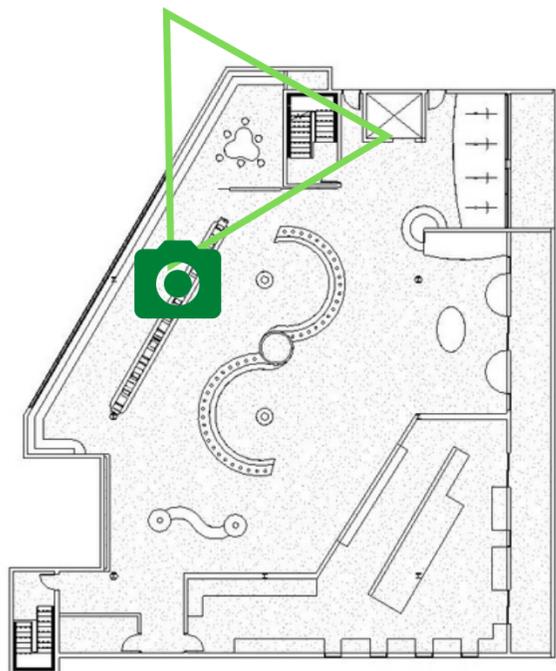
Flooring



Chalk Board Paint



Wallpaper



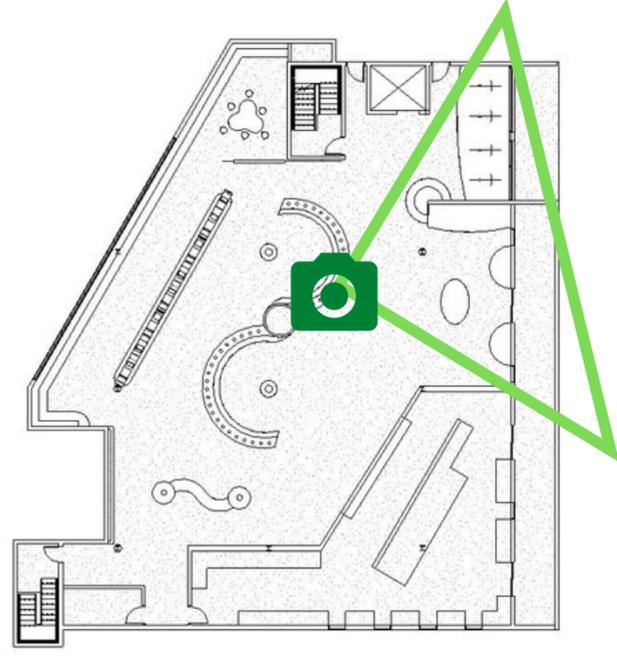
*Why do you live sustainably?*

Chalk board wall to write inspiration for going sustainable and to use as Instagram background

# Children's Craft/Meeting Area



Yeins of leaf pattern for ceiling element



Wood Flooring



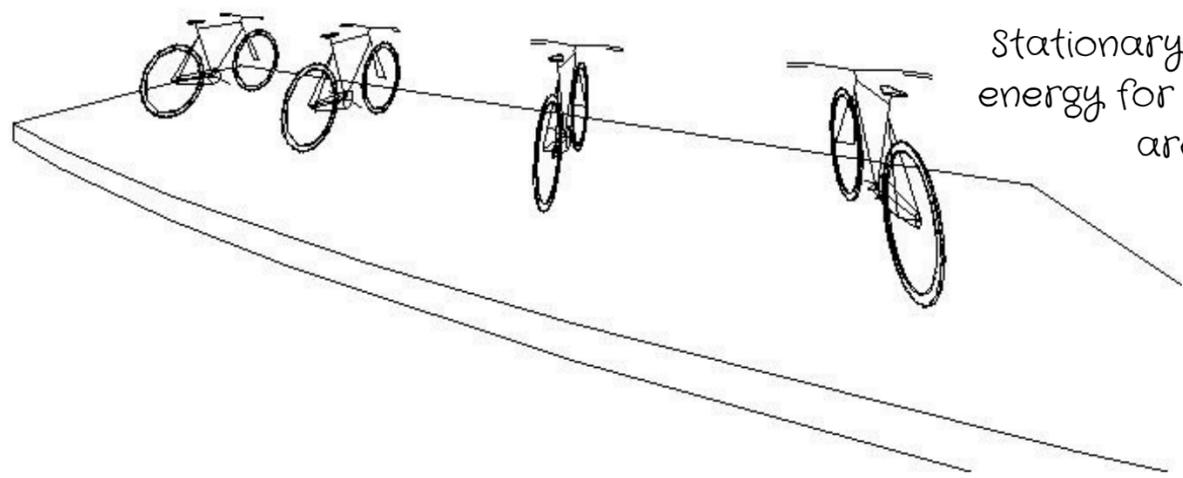
Cork Flooring



Paint

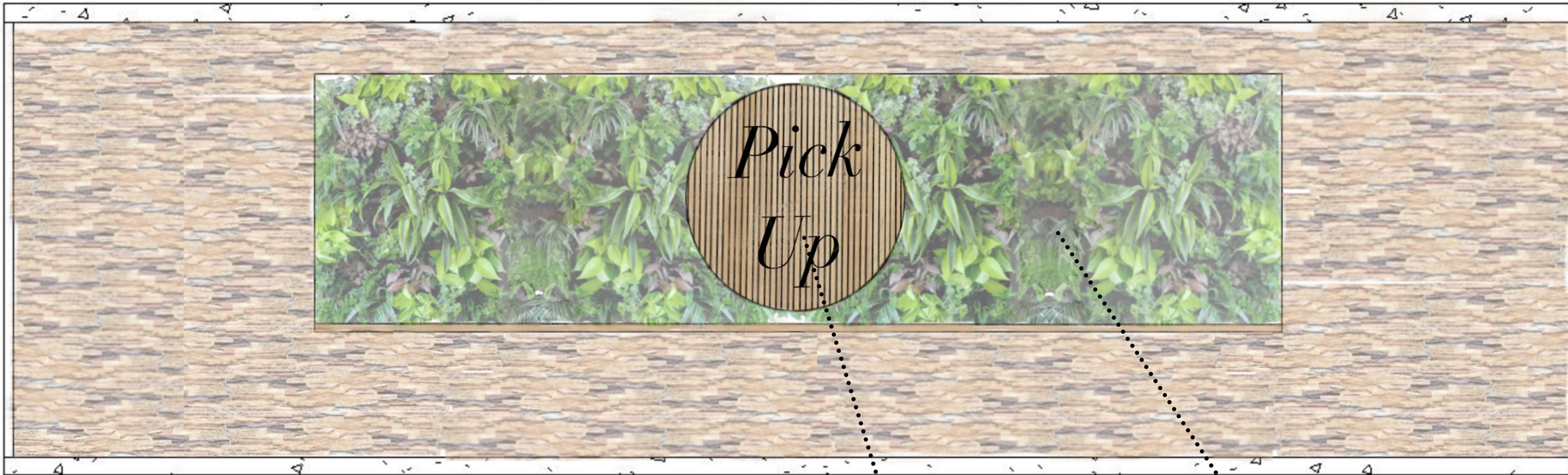


Paneling



Stationary bikes that generate energy for the space while they are being used

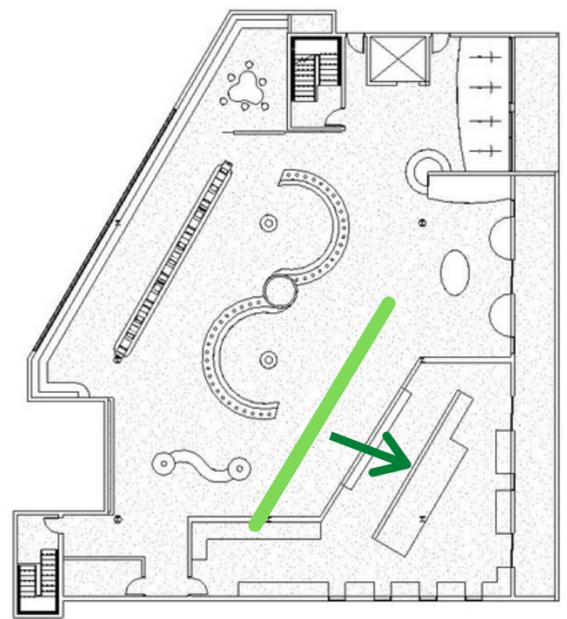
Buy Nothing and Energy Bikes



*Pick  
Up*

Letters back lit

Live wall behind pick up area



Wood Flooring



Cork Flooring

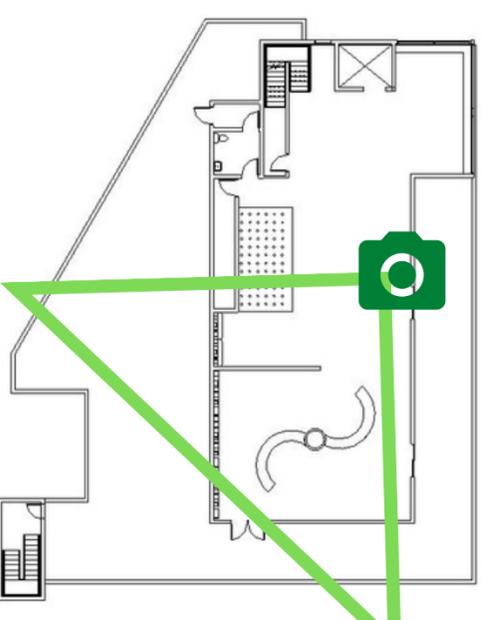


Paneling



Wood Paneling

Product Pick Up



Wood Flooring



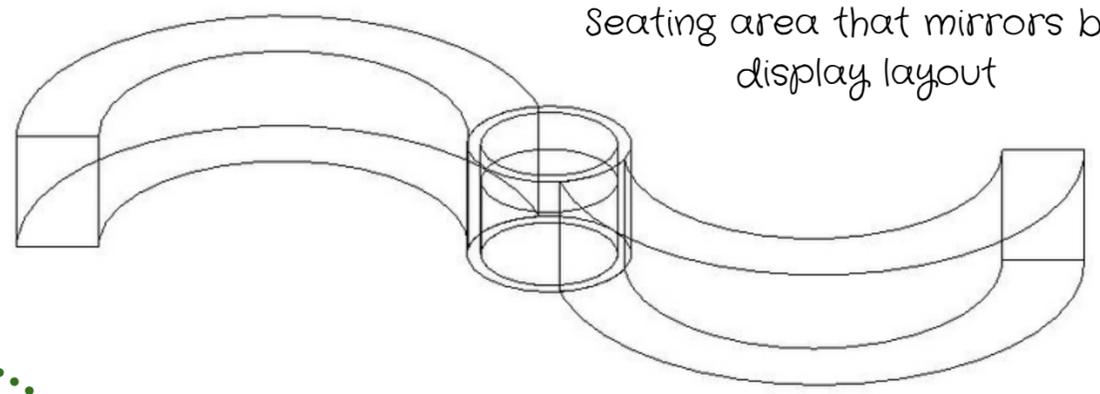
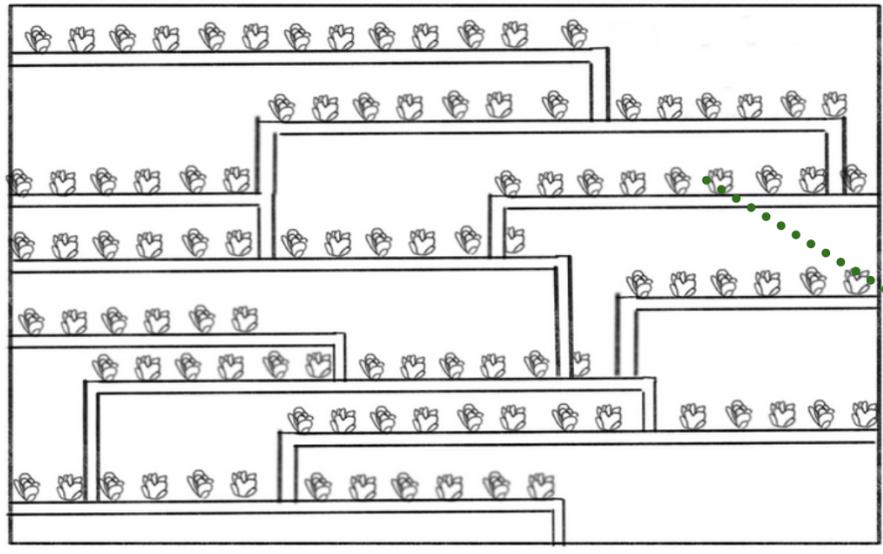
Cork Flooring



Paint



Upholstery



Seating area that mirrors bulk display layout

Vertical hydroponic system

# Hydroponics/Worm Farm

Floor to ceiling windows with shelving spanning the length



Wood Flooring



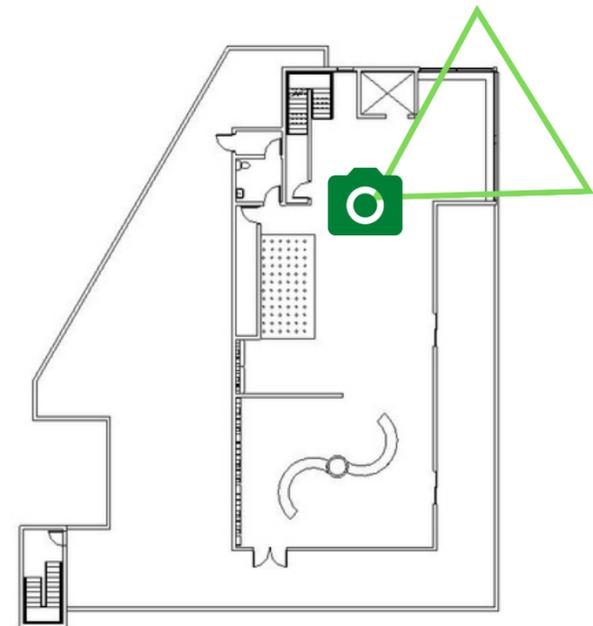
Cork Flooring



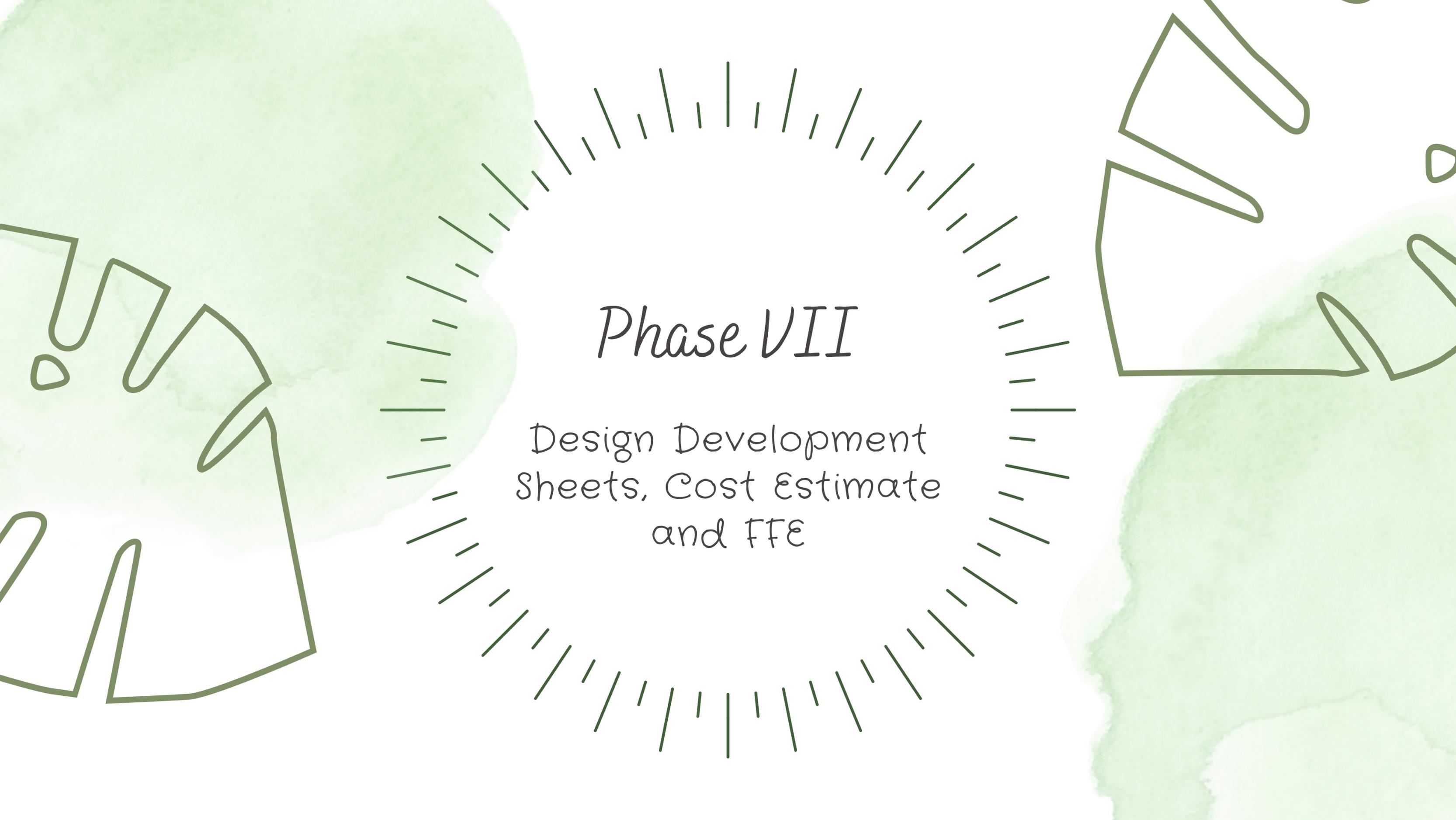
Wood Panels



Wallpaper



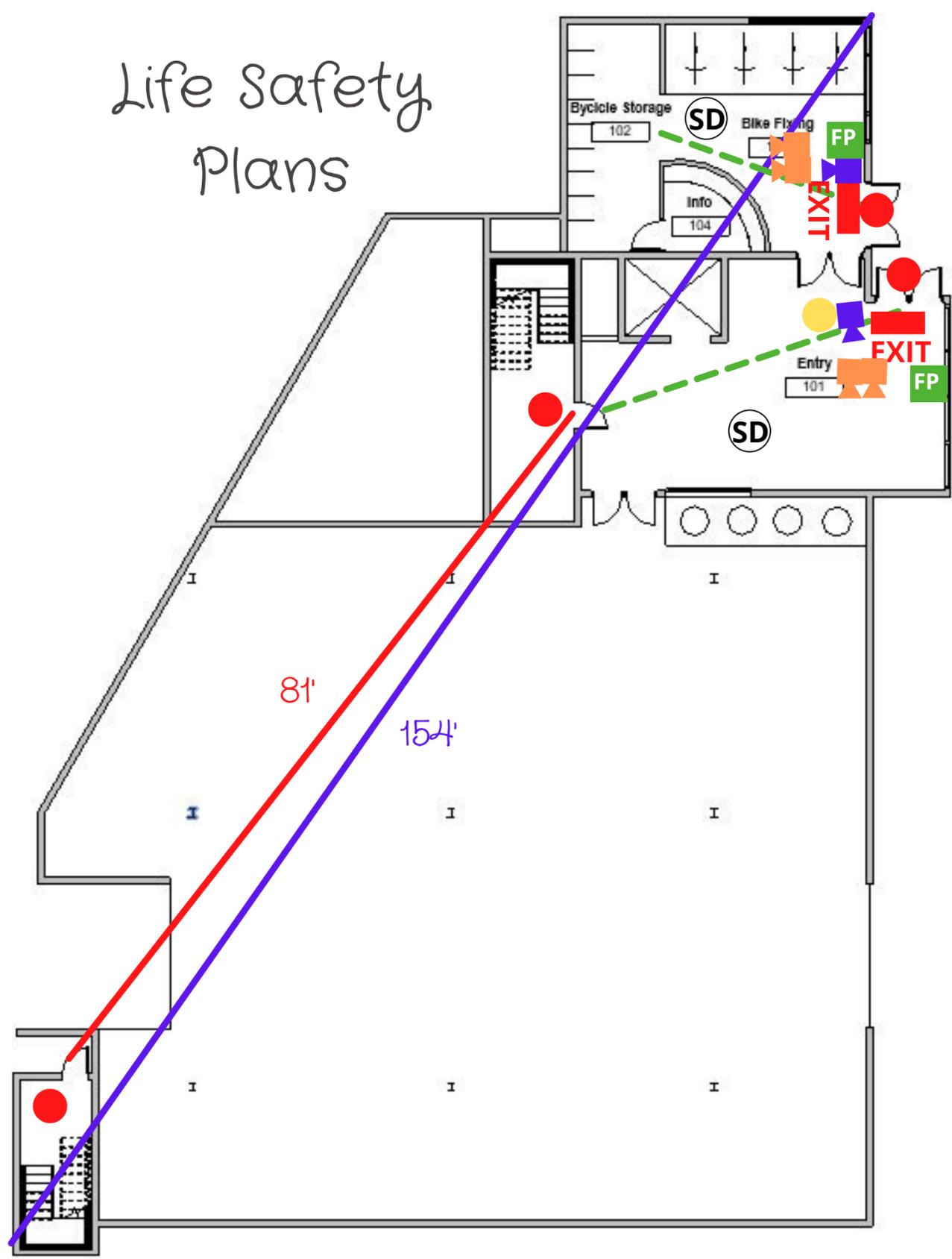
Planting Station



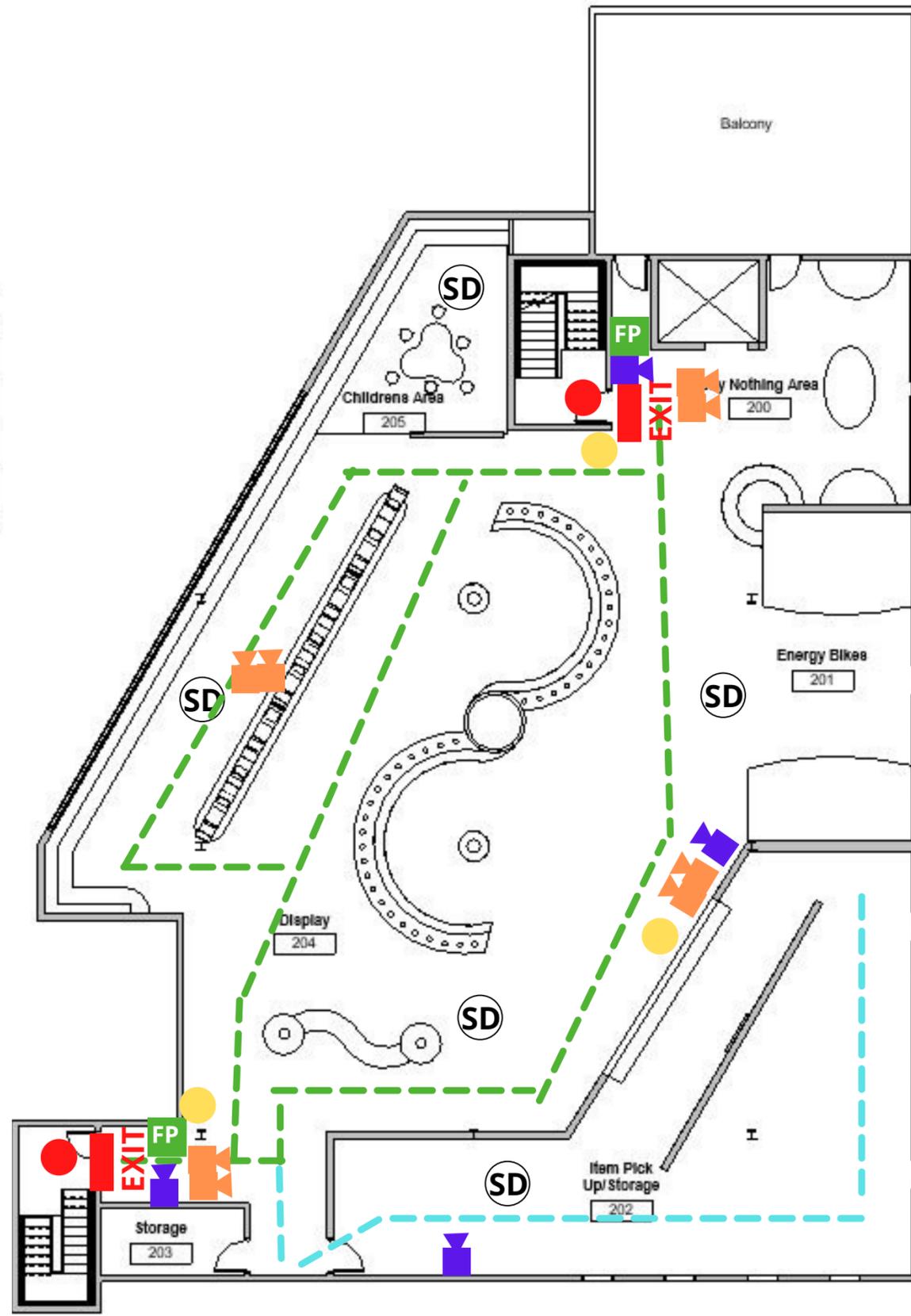
# Phase VII

Design Development  
Sheets, Cost Estimate  
and FFE

# Life Safety Plans

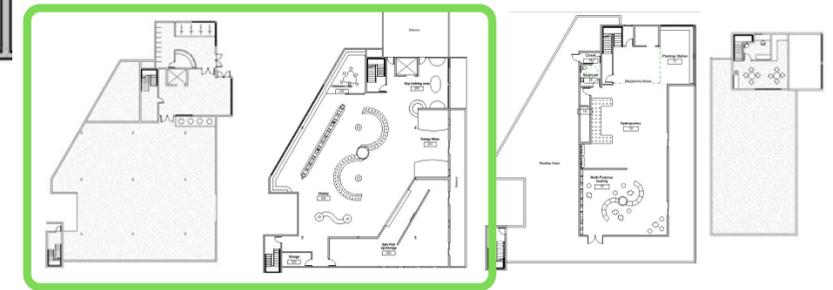


First Floor

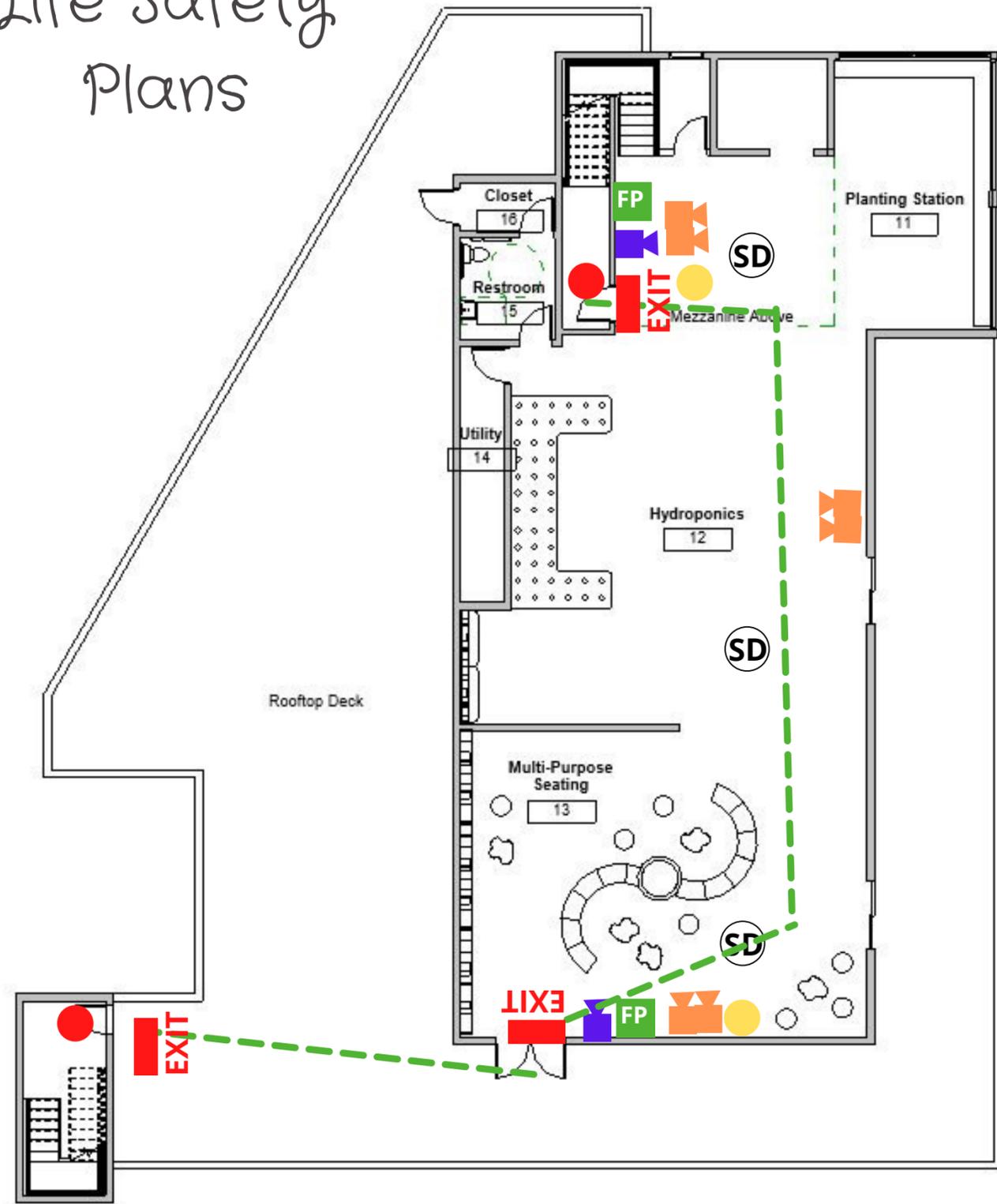


Second Floor

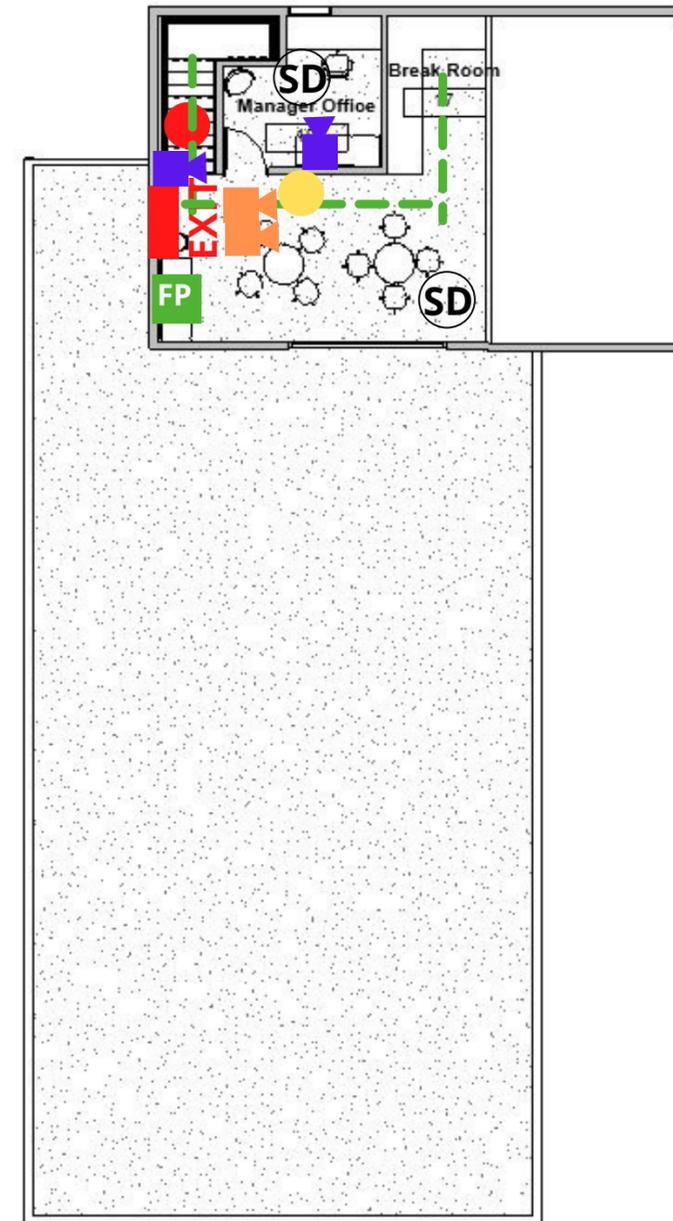
- Half Diagonal
- Overall Diagonal
- Exit
- - - Travel Distance
- - - Common Path Of Travel
- EXIT Exit Sign with Direction
- SD Smoke Detector
- ▼ Audible/Visual Alarm
- FP Manual Alarm
- ▶ Emergency Lighting
- Fire Extinguisher



# Life Safety Plans

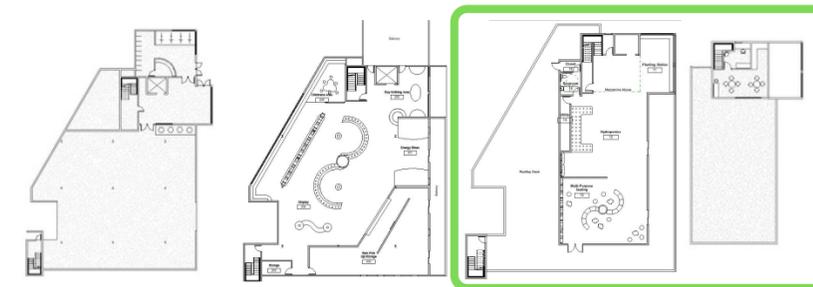


Third Floor



Mezzanine

- Half Diagonal
- Overall Diagonal
- Exit
- - - Travel Distance
- - - Common Path Of Travel
- EXIT Exit Sign with Direction
- SD Smoke Detector
- ▶ Audible/Visual Alarm
- FP Manual Alarm
- ▶ Emergency Lighting
- Fire Extinguisher























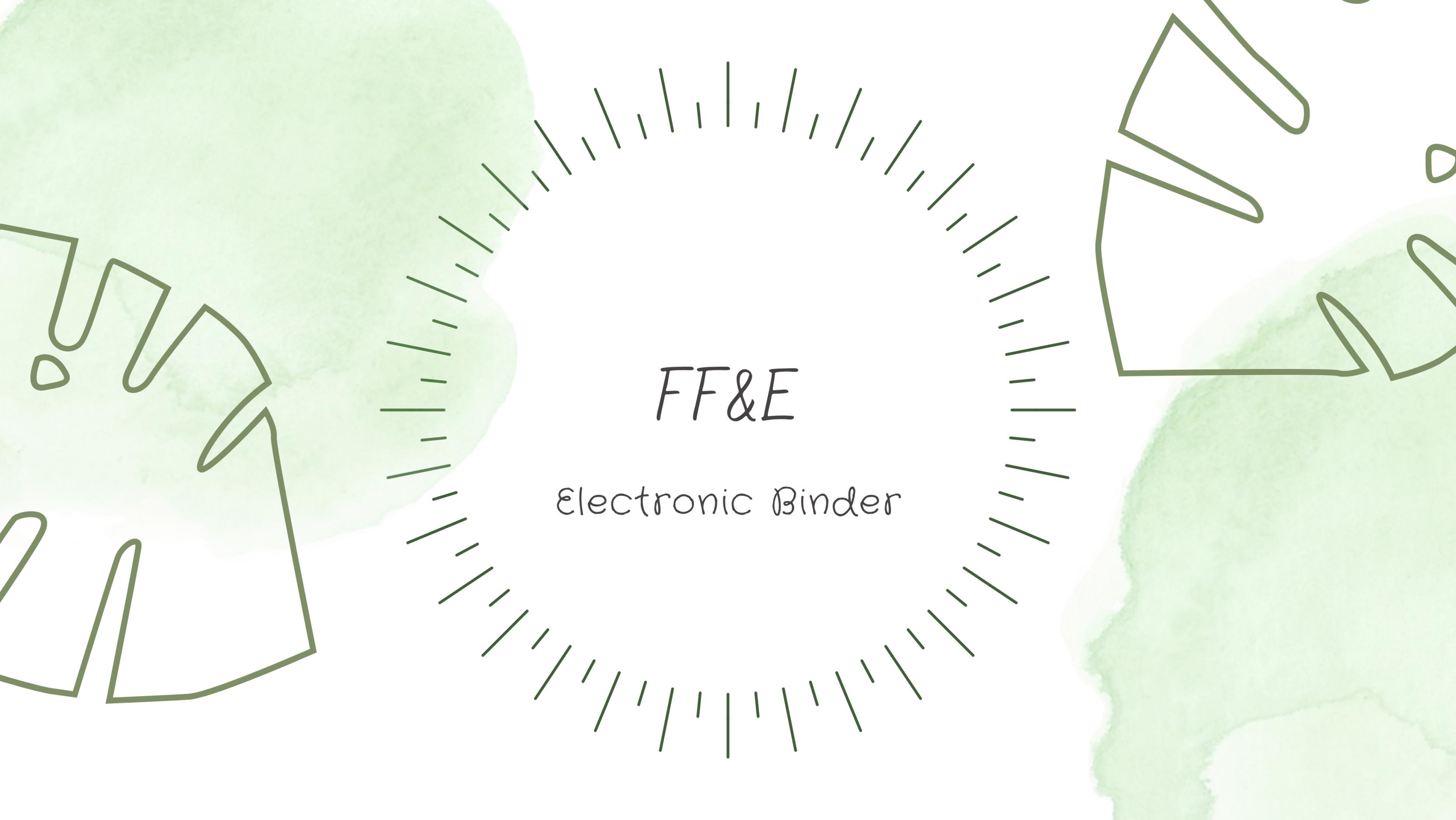










The image features a central sunburst graphic composed of numerous thin, dark green lines radiating from a central point. The background is a light, textured green wash. On the left and right sides, there are abstract, hand-drawn shapes in a dark green outline, resembling stylized leaves or geometric forms. The text 'FF&E' is centered within the sunburst, and 'Electronic Binder' is positioned directly below it.

*FF&E*

Electronic Binder

Image	Tag	Manufacturer	Name	Quantity	Description	Page	Justification Chart	Notes/Further Justification
<b>Furniture:</b>								
	CH-1	ERG International	3934 Curve Backless Modular Unit	12	Wood legs 30 degree unit	12 52 19		Environmental Facts- 52% Recycled Content- 78% Recyclable End of Life: Recycling & Reuse ERG designs our products so that they can be easily disassembled and separated for recycling or reuse at the end of a products useful life. This peice was chosen because of its shape and how it mimicks the display on the floor below. The shape also relates to my concept because of how curved and naturally shaped it is.
	Ch-2	Gotessons	Hang On	5	Forrest Green Artificial leather Color code: 492 (Kaiman 430 Dark Green BY TYGGROSSISTEN)-Medium	12 52 19		Longterm relationships with manufacturers allows for more control and easier changes with newer regulations. Shipping has been compacted to be able to ship more in one go. Products are built with high quality and future trends in mind to reate longer life cycles of the products. Materials used come from sustainable sources. This piece was chosen because its shape is ver organic, comes in nice colors and is sustainable
	Ch-3	Gotessons	Office Ballz	4	Zipper- Off White Blazer Color code: 66 (CUZ1K BY CAMIRA)- 550mm	12 52 19		-
	Ch-4	Gotessons	Office Ballz	3	Zipper- Off White Synergy Color code: 625 (Intergrate LDS 47 BY CAMIRA)- 550mm	12 52 19		-
<b>Finishes:</b>								
	PT-1	Benjamin Moore	Natura Interior Paint- Flat	N/A	White Heron OC-57	9 91 23		CERTIFIED asthma & allergy friendly® Zero VOC Zero Emissions  This color was chosen because it allows for the other sustainable materials to shine through
	PT-2	Benjamin Moore	Natura Interior Paint- Flat	N/A	Ocean Breeze 2058-60	09 91 23		CERTIFIED asthma & allergy friendly® Zero VOC Zero Emissions  This color was picked for the ceiling to keep a somewhat neutral base but also add some interest and allow for the ceiling elements to not get as lost
	B-1	Armstrong	R48SL- covered base roll	N/A	Salt4*	09 65 13 13		25-year Commercial Warranty when installed in accordance with the detailed instruction Low-Emitting Material, Low Emitting Adhesives Fundamental Material Safety/Toxic Material Reduction WELL™ Feature 11 and 25
	WC-1	Designtex	DNA-non vinyl	N/A	Custom 15'x76"	09 72 16		30% Post consumer product MR LEED Credits
	COR-1	Siena	Cork Floor	N/A	Sardina Coffee 12in x 36in x	09 62 29		Renewable Material CHPS / CA Section 01350 Compliant, LBC Red List 3.0 Chemical Free This material was picked as part of the flooring because it is very sustainable and the color is neutral which allows to keep the focus on the products
	W-1	CRAFT Artisan Wood Floors	Lakeside Plank	N/A	Kawartha 7in or 8in x random lengths (12in-96in)	09 64 29		low VOC emitting, made with zero formaldehyde glue. made from certified sustainable wood. GREENGUARD Gold certified and CARB2 Compliant. made from North American wood that is SFI Chain of Custody certified to be legal, responsible and traceable back to a sustainably managed forest. third-party certifications that contribute to the earning of points in LEED and several other green building rating systems. This material was picked as part of the flooring because it is very sustainable and the color is neutral which allows to keep the focus on the products
<b>Equipment:</b>								
	-----	Kichler	6T Series 24V LED Tape	N/A	LED Lumens 125 per foot Wattage 150 100 ft total. can be cut every 4"	26 55 23		
	⊙	Lithonia Lighting	Wafer LED Integrated Recessed Fixture 6" -IC Rated and Airtight	23	LED Lumen 1110 Wattage 14	26 51 13		
	⊕	Bellevue	3 Light 16" Wide Flush Mount Drum	2	A19 Medium (E26) Base (3) 60 watt	26 51 13		

Life Cycle Cost  
Durability/performance  
Connection to concept  
LEED/Sustainability



*FF&E*

Furniture



ERG International  
3934 Curve Backless Modular Unit

**MALIBU**

The Malibu collection presents a variety of designs that offers a modern seating style and a clean tapered leg design, in wood or metal. The banquettes create a sleek dining setting and offers both a clean out option and privacy panels. The modular units offer straight and curved units with optional privacy panels, that can create unique configurations and can customize the look with three arm units for in between or outside the units. The Malibu lounge has four styles including the straight arm, slope arm, metal quad arm and a laminate or veneer wrap. The ottomans come in many sizes and benches that include online tables, to accompany the rest of the collection in creating multiple touch-down spots for collaboration. Malibu is a versatile collection that will enhance any space or public environment.



BANQUETTE



MODULAR



MODULAR BACKLESS



OTTOMAN



LOUNGE

**ORDERING INFORMATION**

- 1) Series Name
- 2) Model Number
- 3) Quantity
- 4) Fabric Grade & Number(s)
- 5) Powder Coat Color for Legs
- 6) Panel Laminate/Edge Selection
- 7) Optional Items / Colors

SOFT SEATING	WEIGHT LIMIT
1 Seat	500 lbs.
2 Seat	1000 lbs.
3 Seat	1500 lbs.

**STANDARD BASE FINISHES**

**Metal Legs:** Standard Powder Coat

**OPTIONAL BASE FINISHES**

**Wood Legs:** Standard Wood Stain

**Metal Legs:** Polished Chrome



STANDARD POWDERED COAT LEG

**GENERAL SPECIFICATIONS**

**Frame**

Frame assembly is constructed of multi-ply hardwood, with tongue and groove construction. No sag-springs are installed in seat & back along with interlocking helicoil springs to prevent sagging and provide additional lower back and seat support.

**Upholstery / Foam**

Malibu modular lounge is fully upholstered in your choice of fabric, vinyl, crypton, leather or Customers Own Material. ERG uses only water based glues and adhesives in all our upholstery process. Seat foam is bonded to all sides of hardwood frame. Seat cushions are 4" graded, high resiliency (H.R.) block foam with seat back 3" H.R. foam, covered entirely with special bonded polyester fiber to protect final upholstery.

**Base Details**

**Legs:** Tapered-triangular legs are formed and welded steel 8.5" tall. Legs are sandblasted prior to final powder coating in your choice of standard powder coat colors. Legs have a factory installed adjustable steel glide.

**Note for Edge of privacy panels:**

- Straight panels: available with Standard 3MM PVC or laminate self edge.  
Select from any of our Standard 3MM PVC edges in solid or wood tone, no custom colors available.
- Curved panels: are only available with laminate self edge.
- Both straight and curved panels: when combining straight panels and curved panels, ONLY self edge is available.

DIMENSIONS	20° Curve Backless	30° Curve Backless	45° Curve Backless	60° Curve Backless
Seat Depth:	<b>27"</b>	<b>27"</b>	<b>27"</b>	<b>27"</b>
Overall Depth:	28"	29"	31"	32"
Overall Width:	32"	35"	52"	67"
Seat Height:	18"	18"	18"	18"
Qty./Wt.:	1 ea./44 lbs.	1 ea./65 lbs.	1 ea./85 lbs.	1 ea./110 lbs.



60° BACKLESS CURVE MODULE

**MODEL / DESCRIPTION / LIST PRICING**



**3933** 20° Curve Backless Modular Unit (4 legs)

COM Yardage: Total: 2.5 Yds. / Sides: 1.5 Yds. / Top: 1 Yds.

COM	GR1	GR2	GR3	GR4	GR5	GR6	GR7	GR8	GR9	GR10	LEA
\$1248	\$1338	\$1430	\$1536	\$1627	\$1733	\$1837	\$1942	\$2047	\$2153	\$2256	\$2408



**3934** 30° Curve Backless Modular Unit (4 legs)

COM Yardage: Total: 3 Yds. / Sides: 1.75 Yds. / Top: 1.25 Yds.

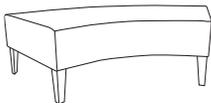
COM	GR1	GR2	GR3	GR4	GR5	GR6	GR7	GR8	GR9	GR10	LEA
\$1336	\$1427	\$1519	\$1625	\$1715	\$1821	\$1926	\$2031	\$2135	\$2241	\$2345	\$2496



**3935** 45° Curve Backless Modular Unit (4 legs)

COM Yardage: Total: 3.75 Yds. / Sides: 2 Yds. / Top: 1.75 Yds.

COM	GR1	GR2	GR3	GR4	GR5	GR6	GR7	GR8	GR9	GR10	LEA
\$1841	\$1968	\$2048	\$2131	\$2213	\$2304	\$2397	\$2492	\$2591	\$2696	\$2803	\$3314



**3936** 60° Curve Backless Modular Unit (5 legs)

COM Yardage: Total: 4.5 Yds. / Sides: 2.25 Yds. / Top: 2.25 Yds.

COM	GR1	GR2	GR3	GR4	GR5	GR6	GR7	GR8	GR9	GR10	LEA
\$2241	\$2398	\$2493	\$2592	\$2697	\$2805	\$2916	\$3034	\$3156	\$3281	\$3412	\$4033

**OPTIONS**

Add upcharge to list price and code to model number

FR	CAL 133 (TB 133) Fire Retardant per yard	\$101	/yd.
MB	Moisture Barrier (up to 60" overall width)	\$141	ea.
MB60	Moisture Barrier (over 60" overall width)	\$225	ea.
PC	Polished Chrome Legs	\$39	ea.
WOD	Wood Legs	\$27	ea.
2FO	Two Fabric Option	\$110	per unit
GD1	Ratchet Ganging Device for Soft Seating	\$58	per pair
GD2	Flat Ganging Device for Soft Seating	\$58	per pair

FMG	Floor Mount Glide	\$25	ea.
TABF(-)	Fixed Tablet (outside, specify (L/R), shape A, B or C)	\$416	ea. tablet
TABFB(-)	Fixed Tablet (blade, specify (L/R), shape A, B or C)	\$416	ea. tablet
LAM5	Non-standard laminate (5 tablets or less)	\$281	ea. tablet
SST	Solid Surface Tablet Arm - add to tablet option	\$141	ea. tablet
SS5	Non-standard Solid Surface (5 tablets or less)	Call For Quote	



Gotessons  
Hang On



## HANG ON

A sleek and modern seating furniture to create more diverse environments. The product is also a very good sound absorber. Hang On is available in four different heights and with a wide range of textiles and zippers.

## HANG ON/SMS-BOX

Art.No    Size/Description    Price €  
(all dimensions in mm)



HANG ON		See price ranges on page 6-11.			
Art.No	Size/Description	Pricer. 1	Pricer. 2	Pricer. 3	Pricer. 4
647060	W. 830 H. 600	427,66	476,60	501,49	592,77
647080	W. 830 H. 500	391,06	452,13	464,36	574,47
647070	W. 730 H. 400	378,72	427,66	452,13	562,23
647090	W. 730 H. 200	219,57			



SMS-BOX		See price ranges on page 6-11.			
Art.No	Size/Description	Pricer. 1	Pricer. 2	Pricer. 3	Pricer. 4
647020	Stool, on wheels with storage W. 370 H. 500 D. 370	226,28	238,83	289,15	364,79
647050	Stool, no wheels with storage W. 370 H. 500 D. 370	213,94	226,28	276,60	352,23

Prices apply to colours on page 6-11.

Textiles that can be selected for Hang On/SMS-Box:  
**Pricer. 1:** Event Screen +, Lido, Mica, Noble Lux, Radio, Houston Reflect, Artificial Leather  
**Pricer. 2:** Gotessons by Bogesunds, Rivet  
**Pricer. 3:** Bond, Blazer, Synergy  
**Pricer. 4:** Remix 2

Specify the article number as follow:  
**Hang On/SMS-Box - textile colour - zip colour.**  
**Seam as zip edgings.**



## SMS-BOX Sit - Meet - Store

Soft seating box with lid for storage. Fits perfectly under the desk. The SMS-box is available in a large variation of textiles and zippers so it is easy to match it with other furniture in the office.



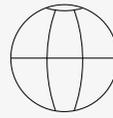
Gotessons  
Office Ballz



## OFFICE BALLZ

Art.No Size/Description  
(all dimensions in mm)

Price €



### OFFICE BALLZ

Delivered with a pump.

See price ranges on page 6-11.

	Pricer. 1	Pricer. 2	Pricer. 3	Pricer. 4
<b>Office Ballz Big</b> 640065 Ø 650	295,96	321,38	369,79	424,89
<b>Office Ballz Small</b> 640055 Ø 550	284,15	307,02	358,19	413,72

Prices apply to colours on page 6-11. Textiles that can be selected for the Office Ballz:

Pricer. 1: Event Screen +, Lido, Mica, Noble Lux, Radio, Houston Reflect, Artificial Leather

Pricer. 2: Gotessons by Bogesunds, Rivet

Pricer. 3: Bond, Blazer, Synergy

Pricer. 4: Remix 2

Specify the article number as follow:

Office Ballz - textile colour - zip colour.

Not available with fishbone zip.

Seam as zip edgings.

Max loading 125 kg.

See video at [www.gotessons.com](http://www.gotessons.com).





*FF&E*

Finishes



Benjamin Moore  
Natura Interior Paint- Flat



# NATURA®

## PREMIUM INTERIOR PAINT & PRIMER FLAT 512

### Features

- Zero VOC
- Quick return to service
- 100% Acrylic
- Spatter-resistant
- Self-priming on most surfaces
- Dries quickly to a beautiful, washable, and uniform flat finish

### Recommended For

New or previously painted interior wallboard, plaster and masonry, as well as primed or previously painted wood and metal. Provides a beautiful flat finish on walls and ceilings.

### General Description

Natura® Premium Interior Paint & Primer Flat (512) is a premium quality, zero VOC paint that provides a durable, washable and fade-resistant finish. Natura® Premium Interior Paint & Primer Flat (512) is ideally suited for residential applications and is Certified asthma & allergy friendly®.

### Limitations

- Do not paint when temperature of air and surface is below 50 °F (10 °C)

### Product Information

#### Colors — Standard:

White (01)

#### — Tint Bases:

Benjamin Moore® Gennex® Bases 1X, 2X, 3X, & 4X

#### — Special Colors:

Contact your Benjamin Moore representative.

#### Certifications & Qualifications:

##### VOC compliant in all regulated areas

Zero VOC

Zero Emissions

Class A (0-25) over non-combustible surfaces when tested in accordance with ASTM E-84

Master Painters Institute MPI # 53, 53 X-Green™, 143, 143 X-Green™



This product meets Green Seal™ Standard GS-11 based on effective performance, minimized/recycled packaging, and protective limits on VOCs and human toxicity.  
GreenSeal.org



Benjamin Moore's Green Promise® designation is our company's assurance that this product meets – and often exceeds – rigorous environmental and performance criteria regarding VOCs, emissions, application, washability, scrubability and packaging, while also delivering the premium levels of performance you expect from Benjamin Moore.

Eligible for LEED® v4 Credit	CDPH v1 Emissions Certified	Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)	VOC (in any color)
YES	YES	YES	< 50 g/L

This Benjamin Moore product has been tested by independent third parties and meets or exceeds the published chemical restriction and performance criteria of the Green Seal™ GS-11 2015 standard

#### Technical Assistance

Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit [www.benjaminmoore.com](http://www.benjaminmoore.com)

#### Technical Data<sup>∅</sup>

Technical Data <sup>∅</sup>		Pastel Base
Vehicle Type	100% Acrylic Latex	
Pigment Type	Titanium Dioxide	
Volume Solids	45.5%	
Coverage per Gallon at Recommended Film Thickness	375 – 425 Sq. Ft.	
Recommended Film Thickness	– Wet	4.0 mils
	– Dry	1.8 mils
Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.		
Dry Time @ 77 °F (25 °C) @ 50% RH	– To Touch	30 Minutes
	– To Recoat	1 – 2 Hours
Painted surfaces can be washed after two weeks. High humidity and cool temperatures will result in longer dry, recoat and service times.		
Dries By	Evaporation, Coalescence	
Viscosity	108 ± 2 KU	
Flash Point	None	
Gloss / Sheen	Flat (1.5 - 3.5 @ 85°)	
Surface Temperature at Application	– Min.	50 °F
	– Max.	90 °F
Thin With	See Chart	
Clean Up Thinner	Clean Water	
Weight Per Gallon	11.8 lbs	
Storage Temperature	– Min.	40 °F
	– Max.	90 °F

#### Volatile Organic Compounds (VOC)

0 Grams / Liter      0 LBS / Gallon

<sup>∅</sup>Reported VOC values are for all bases/colors.

## Surface Preparation

Surfaces to be painted must be clean, dry, and free of dirt, dust, grease, oil, soap, wax, scaling paint, water soluble materials and mildew. Remove any peeling or scaling paint, and sand these areas to feather edges smooth with adjacent surfaces. Glossy areas should be dulled. Drywall surfaces must be free of sanding dust.

New plaster or masonry surfaces must be allowed to cure (30 days) before applying base coat. Cured plaster should be hard, have a slight sheen and maximum pH of 10; soft, porous or powdery plaster indicates improper cure. Never sand a plaster surface; knife off any protrusions and prime plaster before and after applying patching compound.

Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles before priming.

**Difficult Substrates:** Benjamin Moore offers a variety of specialty primers for use over difficult substrates such as plaster, bleeding woods, grease stains, crayon markings, hard glossy surfaces, galvanized metal, or other substrates where paint adhesion or stain suppression is a particular problem. Your Benjamin Moore® retailer can recommend the right problem-solving primer for your special needs.

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

## Primer/Finish Systems

Natura® Flat is self-priming on most surfaces. Natura® will act as its own primer, providing the optimal foundation for the subsequent finish coat. On bare substrates two coats are required; previously painted surfaces can be finished with 1 or 2 coats. While the high quality of our products sometimes makes one-coat coverage achievable, Benjamin Moore recommends two coats of this product to achieve full color development and to maximize paint film performance. **Special Note:** Certain custom colors require a Deep Color Base Primer tinted to a special prescription formula to achieve the desired color. Consult your retailer.

### Wood, and engineered wood products:

**Primer:** Natura® Premium Interior Primer (511)

**Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

### For bleeding woods such as cedar and redwood:

**Primer:** Fresh Start® High-Hiding All Purpose Primer (046) or Fresh Start® Multi-Purpose Oil Based Primer (024)

**Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

### Drywall:

**Primer/Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

### Plaster:

**Primer/Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

### Rough or Pitted Masonry:

**Primer:** Ultra Spec® Masonry Interior/Exterior Hi-Build Block Filler (571)

**Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

### Smooth Poured or Pre-cast Concrete:

**Primer/Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

### Ferrous Metal (Steel and Iron):

**Primer:** Ultra Spec® HP Acrylic Metal Primer (HP04) or Super Spec HP® Alkyd Metal Primer (P06)

**Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

### Non-Ferrous Metal (galvanized & aluminum):

All new metal surfaces must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier (V600) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion.

**Primer:** Not required on properly prepared surfaces

**Finish:** 1 or 2 coats of Natura® Premium Interior Paint & Primer Flat (512)

**Repaint, All Substrates:** Prime bare areas with the primer recommended for the substrate above

## Application

**Mixing of Paint:** Stir thoroughly before and during use. Apply one or two coats.

**Paint Application:** For best results, use a premium Benjamin Moore® custom-blended nylon/polyester brush, premium Benjamin Moore® roller, or a similar product. Apply paint generously from unpainted area into wet area.

**Ensure fresh air entry during application and drying**

This product can also be sprayed.

## Thinning/Clean up

Conditioning with Benjamin Moore® 518 Extender may be necessary under certain conditions to adjust open time or spray characteristics. The chart below is for general guidance		
	<b>Mild conditions</b> Humid (RH> 50%) with no direct sunlight & with little to no wind	<b>Severe Conditions</b> Dry (RH<50%), in direct sunlight, or windy conditions
<b>Brush:</b> Nylon / Polyester	No thinning necessary	Add <b>518 Extender</b> or <b>water:</b>  Max of 8 fl. oz. to a gallon of paint  <b>Never add other paints or solvents.</b>
<b>Roller:</b> Premium Quality		
<b>Spray:</b> Airless Pressure: 1500-2500 psi Tip: 0.013- 0.017		

**Clean up:** Wash painting tools in warm soapy water immediately after use. Spray equipment should be given a final rinse with mineral spirits to prevent rusting.

**USE COMPLETELY OR DISPOSE OF PROPERLY.** Dry, empty containers may be recycled in a can recycling program. **Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options.**

## Environmental Health & Safety Information

**Use only with adequate ventilation.** Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use. Wash thoroughly after handling.

**FIRST AID:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

**WARNING:** This product contains isothiazolinone compounds at levels of <0.1%. These substances are biocides commonly found in most paints and a variety of personal care products as a preservative. Certain individuals may be sensitive or allergic to these substances, even at low levels.

**IN CASE OF SPILL –** Absorb with inert material and dispose of as specified under "Clean up".

**KEEP OUT OF REACH OF CHILDREN  
PROTECT FROM FREEZING**

**Refer to Safety Data Sheet for additional health  
and safety information.**



Armstrong  
R48SL- covered base roll

### Product Information

**Product Lines** - Coved Wall Base & Sculptured Wall Base

**Construction** - Thermoplastic Rubber

**Product Specifications** - Coved Wall Base - ASTM F1861, Type TP, Group 1, Style B

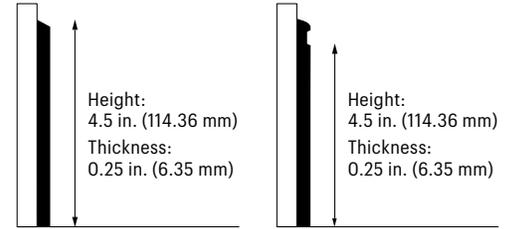
Sculptured Wall Base - ASTM F1861, Type TP, Group 1, Style A

**Overall Thickness** - Coved Wall Base - 0.125 in. (3.18 mm)

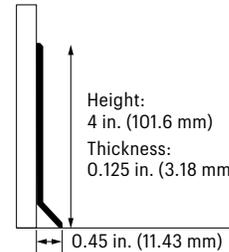
Sculptured Wall Base - 0.25 in. (6.35 mm)

**Installation** - S-725 Wall Base Adhesive

### Product Structures



Sculptured Wall Base



Coved Wall Base

### Packaging

Products	Height	Feet per Carton	Feet per Carton
Coved - Sticks	4.0 in. (101.6 mm)	120 lin. ft. (36.57 m)	30
Coved - Rolls			1
Sculptured	4.5 in. (114.3 mm)	48 lin. ft. (14.63 m)	6

### Testing

Performance	Test Method	Requirement	Performance vs. Requirement
Composition of Materials	Certificate of Compliance	As specified	Meets
Wear Layer Thickness	ASTM F410	≥ 0.002 in.	Meets
Flexibility	ASTM F137	¼ inch mandrel no cracks or breaks in wear surface	Meets
Staining of adjacent surfaces induced by wall base	ASTM F1861 Section 12	No staining of adjacent surfaces	Meets
Resistance to Light	ASTM F 1515	Max. avg. ΔE ≤ 8	Meets
Resistance to Chemicals	ASTM F 925	No more than slight change in surface dulling, attack or staining	Meets
Dimensional Stability	ASTM F1861 Section 12	±0.25%	Meets
Height	ASTM F1861 Section 9	As specified, ±1% of nominal height	Meets
Thickness	ASTM F386	As specified, 0.080 in. +0.015/ -0.005 in. 0.25 in. + 0.015/ -0.015 in.	Meets
Length	ASTM F1861 Section 9	As specified, no less than nominal value	Meets
<b>Additional Testing</b>			
Fire Test Data – Flame Spread	ASTM E 648	0.45 W/cm2 or more Class I	Meets
Fire Test Data – Smoke Evolution	ASTM E 662	450 or less	Meets

### Sustainability

Certification Attribute	Standard	Feet per 3rd party Certification/Certifier
Low-Emitting Material	CDPH v1.2 (2017) a.k.a CHPS 01350	FloorScore®/SCS
Low-Emitting Adhesive (S-725)	CDPH v1.2 (2017) a.k.a CHPS 01350	FloorScore®/SCS

### Sustainability Continued

Performance	Standard	Requirements	Performance vs. Requirements
TVOC Range	CDPH v1.2 (2017) a.k.a CHPS 01350	<0.5 mg/m³	Meets
Low Emitting Adhesives (S-725)	SCAQMD Rule #1168	Less than 50 g/L	S-725 Exceeds – 0 g/L
Fundamental Material Safety Toxic Material Reduction	WELL™ Feature 11 and 25	No asbestos, free of lead and phthalates (DEHP, DBP, BBP, DIDP, DNOP)	Meets

### Limited Warranty

25-year Commercial Warranty when installed in strict accordance with the detailed instructions at [ArmstrongFlooring.com](http://ArmstrongFlooring.com).

4 ft. Sticks - R41XX  
Roll Cove - R48XX


♦ Available in Sculptured Wall Base  
Profile 1 - R53XX  
Profile 2 - R52XX

### Visit [ArmstrongFlooring.com](http://ArmstrongFlooring.com)

for complete Product, Technical, Adhesives, Installation & Maintenance recommendations.

FP7440F10440-121

Armstrong and the Armstrong logo are under license from AWI Licensing LLC. | All other trademarks are owned by AFI Licensing LLC. | © 2021 AFI Licensing LLC. FloorScore® is a registered trademark of the Resilient Floor Covering Institute. | LEED® is a registered trademark of the United States Green Building Council



Custom

Designtex  
DNA-non vinyl



### Specifications

Description	PVC-free wallcovering with many Type II performance characteristics, and a smooth matte finish
Use	Wallcovering
Contents	40% Synthetic Latex, 30% Post consumer waste cellulose fiber, 10% Polyester fiber, 20% Virgin wood pulp
Cleaning	Wipe with a clean, damp, soft cloth and mild detergent
Weight	15 ounces/linear yard
Width	54 inches (52" max printable)
Flammability	ASTM E84 Class A
Lightfastness	40 hours
ACT	
LEED	MR Credits
Warranty	5 years
Origin	United States
Lead Time	10 days
Price	\$44 per yard (10 yard minimum order quantity)



Siena  
Cork Floor



## Technical Specifications

### SIENA CORK FLOATING FLOOR TECHNICAL SPECIFICATIONS

#### **Cork Floating Floor Water-based Polyurethane Finish**

<b>Dimensions</b>	12"x36"x7/16" or 3/8" Top Layer: 3mm-2mm Middle HDF: 6.8mm Bottom Layer Cork: 1.2mm
<b>Finish</b>	Water-based Polyurethane – 3 coats x 90gr/m2
<b>Density Cork</b>	480 kg/m3 – 30 lbs/ft3
<b>Weight per Square Foot</b>	1.6 lbs
<b>Residual Indentation</b>	Max. 0.25mm
<b>Wear Resistance</b>	Taber Abrader CS17 1000 gr. with 1000 cycles result: 0.018 gram
<b>Fire Test</b>	CFLs2 (B2)-Class B2
<b>Reaction to Static Electricity</b>	<2kv
<b>Impact Sound Reduction</b>	17Db
<b>Thermal Conductivity</b>	0.11 m2 K/W
<b>Dimension Stability</b>	0.10%
<b>Resistance to Chemicals</b>	Resistant to diluted acids, oils, fats and known solvents, not resistant to alkalis PH>9
<b>HDF Swelling Value After 24h</b>	<8%
<b>Formaldehyde Testing</b>	38 Ug/m3 Formaldehyde Free-E1
<b>Packaging for 7/16" thick</b>	18.08 sq/ft per carton – 6 planks in carton – 31 lbs
<b>Packaging for 3/8" thick</b>	21 sq/ft per carton – 7 planks in carton – 34 lbs
<b>Storage conditions</b>	Store cartons in laying position where relative humidity is 50%-60% and temperature is between 60%-75%



## Siena Cork Technical Specifications (Additional Info)

### Technical Data

Data	ASTM/Standard	Results
Coefficient of Friction	D-2047	Dry .82/ Wet .76
Static Load	F-970-(250 lbs)	.006"
Optical Smoke Density	E-662 Flaming	< 450, passes
	Non-flaming	<450, passes
Critical Radiant Flux	E-648	Class 2
Thermal Conductivity	C-518 –Thermal Conductivity – K Value	.5685
	Thermal Resistance – R Value	.78
Chemical Resistance	F – 925 (See Below) – 24 hours	No Change
IIC	E-989	59
STC	E-413	53
NRC	C-423	.05
<b>Tolerances</b>		
Length & Width		+/- .17%
Thickness		Less than 0.25mm
Density Cork top layer		32 lb/ft <sup>3</sup>
Density HDF		47 lb/ft <sup>3</sup>
Density Underlayment		19 lb/ft <sup>3</sup>

### Chemical Resistance: 24 hours

5% Ammonia – No Change	5% Phenol – No Change
Bleach – No Change	Gasoline – No Change
5% Acetic Acid – No Change	Sulfuric Acid – No Change
70% Isopropyl Alcohol – No Change	Kerosene – No Change
Mineral Oil – No Change	Olive Oil – No Change
5% Hydrochloric Acid – No Change	5% Sodium Hydroxide – No Change



**CRAFT Artisan Wood Floors**  
**Lakeside Plank**

# KAWARTHA

## RUSTIC, TEXTURED WIDEPLANK HICKORY

HANDMADE HICKORY IN STUNNING NATURAL PATTERNS OF HEARTWOOD AND SAPWOOD

Kawartha is a natural selection of lively hickory planks. Homeowners with Kawartha floors love how the earthy, organic patterns of Hickory's heartwood and sapwood come together to create a beautifully rustic look.



### COLLECTION

Lakeside Plank

### VENEER / ORIGIN / HARDNESS

Hickory - North America - Janka Rating 1820

All Hickory is third-party verified by the Sustainable Forestry Initiative® to be from legal and responsible sources

### CORE / ORIGIN / STRENGTH RATING (FB)

Canadian Spruce - Canada - Fb 875

All structural components are made from Canadian Spruce that is third-party certified to the Sustainable Forestry Initiative® to be legal, responsible and sustainable

### CREDITS IN GREEN BUILDING RATING SYSTEMS

The values of CRAFT align well with the principles of sustainable building. All CRAFT floors have third-party certifications that contribute to the earning of points in LEED and several other green building rating systems

### COLOUR VARIATION/GRADE

Premium Rustic: Graded to highlight the wood's natural characteristics and inherent rustic beauty. Medium colour variation.

### WOOD PATTERN / GRAIN

A Kawartha floor will have a variety of grain patterns naturally found in hickory, but will tend to have more heavy heartwood boards with about 20%-25% sapwood

### TEXTURE/BEVELS

Hand-worked VintageCRAFT artisanal texturing creates the aesthetic of a genuine timeworn floor. Small bevel.

### FINISH / GLOSS LEVEL

DuRa Finish™ Ultra Matte looks natural and harmonizes with wood's natural texture, while offering superior protection. Third-party certified by Underwriters Laboratories to the level of GREENGUARD Gold, demonstrating the most stringent level of low emissions available to ensure a healthy living environment with excellent indoor air quality

### WIDTH / CONSTRUCTION

7 / 8" Widths: **ENCORE** 5/8" thick DACS II Construction with solid sawn components in a 2-Layer format

(3mm surface wear layer + 12mm DACS II Core)

3/4" **PRESTIGE** Construction available with 1000 sq ft minimum custom order. Call for options and quote.

### LENGTHS / BOX SIZES

**ENCORE** Standard Box: Random 1' to 8' lengths

7": 36.8 sqft per box; 57 lbs (approx.)

8": 42.0 sqft per box; 65 lbs (approx.)

**ENCORE** LongCRAFT Box: 8 x 10' lengths

7": 46.0 sqft per box; 71 lbs (approx.)

8": 52.5 sqft per box; 81 lbs (approx.)

### GLUE

Highest quality, formaldehyde-free adhesive used to glue all components; CARB2 Compliant

### ACCESSORIES

Stair Nosings, Vents, T-Moulding and Reducers use the same wood, surface treatment and finish as that of the wood floor to achieve the utmost in design unity and coordination

### INSTALLATION

Suitable for installation above, on or below grade

Approved for installation over Radiant Floor Heating systems

### WARRANTY

30 Year Finish Warranty; Limited Lifetime Structural Warranty;

3 Year Light Commercial Warranty

### AVAILABILITY

Stocking Program product. Request a complimentary sample for your project

## LOVE KAWARTHA? REQUEST A SAMPLE

We'll send you a real piece of Kawartha so you can explore how it looks and feels in your home



FF&E

Equipment



Kichler  
6T Series 24V LED Tape

## 6TL SERIES - 24V LED TAPE LIGHT



DRY LOCATION



SELECT

# 1. Color Temperature and Lumen Output

**STANDARD OUTPUT**

- 32' max linear run length
- 120-145 lumens/ft.
- 1.5 W/ft., 90 CRI
- Cuttable every 4"

**AMBER WHITE - 2400K**

- 6T116S24 WH**
- 16' (24W)

**HIGH OUTPUT**

- 20' max linear run length
- 215-270 lumens/ft.
- 3 W/ft., 90 CRI
- Cuttable every 4"

**AMBER WHITE - 2400K**

- 6T120H24 WH**
- 20' (60W)

**ULTRA HIGH OUTPUT**

- 10' max linear run length
- 490-590 lumens/ft.
- 7.2 W/ft., 90 CRI
- Cuttable every 2.5"

**Requires soldered connections; doesn't work with tape light supply leads or connectors**



WARM WHITE

**WARM WHITE - 2700K**

- 6T110S27 BK, WH**
- 10' (15W)
- 6T116S27 BK, WH**
- 16' (24W)
- 6T1100S27 BK, WH**
- 100'

**WARM WHITE - 2700K**

- 6T110H27 BK, WH**
- 10' (30W)
- 6T120H27 BK, WH**
- 20' (60W)
- 6T1100H27 BK, WH**
- 100'

**WARM WHITE - 2700K**

- 6T110UH27 BK, WH**
- 10' (72W)



PURE WHITE

**PURE WHITE - 3000K**

- 6T110S30 BK, WH**
- 10' (15W)
- 6T116S30 BK, WH**
- 16' (24W)
- 6T1100S30 BK, WH**
- 100'

**PURE WHITE - 3000K**

- 6T110H30 BK, WH**
- 10' (30W)
- 6T120H30 BK, WH**
- 20' (60W)
- 6T1100H30 BK, WH**
- 100'

**PURE WHITE - 3000K**

- 6T110UH30 BK, WH**
- 10' (72W)



BRIGHT WHITE

**BRIGHT WHITE - 5000K**

- 6T116S50 BK, WH**
- 16' (24W)
- 6T1100S50 BK, WH**
- 100'

**BRIGHT WHITE - 5000K**

- 6T120H50 BK, WH**
- 20' (60W)
- 6T1100H50 BK, WH**
- 100'

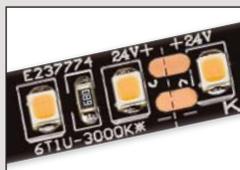
**BRIGHT WHITE - 5000K**

- 6T110UH50 BK, WH**
- 10' (72W)

Tape light rolls come with a 2' supply wire soldered to the beginning and end of each roll.

**AVAILABLE FINISHES**

**WH** White  
Shown in Standard Output



**BK** Black  
Shown in Ultra High Output



## 2. Power Supply Leads and Interconnect Cables

### POWER SUPPLY LEADS

Connects tape light to power supply. Cannot be used as an interconnect cable.



#### 1SL2 BK, WH

- 2' DC jack supply lead

#### 1SL8 BK, WH

- 8' DC jack supply lead



#### 1SLW2 BK, WH

- 2' supply lead
- No DC connector

#### 1SLW8 BK, WH

- 8' supply lead
- No DC connector

### INTERCONNECT CABLES

Used to connect 2 sections of tape light together or for making tight turns.

#### 1C1 BK, WH

- Inline splice

#### 1C02 BK, WH

- 2" Interconnect

#### 1C06 BK, WH

- 6" Interconnect

#### 1C12 BK, WH

- 12" Interconnect

#### 1C36 BK, WH

- 36" Interconnect

#### 1C96 BK, WH

- 96" Interconnect

## 3. Power Supply

### PLUG-IN POWER SUPPLY

Total wattage of tape light cannot exceed wattage rating of power supply.

#### 10190BK30 30W

#### 10190BK48 48W

#### 10190BK60 60W

- 8' of cord with male DC 2.1 jack on end
- 2.4W minimum load requirement
- 120V – 240V input



### DIRECT WIRE DIMMABLE

#### 6TD24V60BKT 60W †

#### 6TD24V96BKT 96W †

- Dimmable LED power supply



† Available early 2016. All power supplies are Class 2/24V DC.

## 4. Optional Accessories

### INLINE DIMMER

#### 10198 BK, WH

- 0 – 100% dimming
- Can only be used on 24V output side of power supply
- 48W MAX
- For indoor use only

### 90° ALUMINUM TRACK

#### 10171 BK, WH – 12"

#### 10170 BK, WH – 36"

- 9/16" H x 1/2" W
- 11 end caps included
- Tracks have pre-installed screws every 6"

### 90° END CAPS

#### 10177 BK, WH

- 5 pieces

### 45° ALUMINUM TRACK

#### 10173 BK, WH – 12"

#### 10172 BK, WH – 36"

- 1/2" H x 1/2" W
- 11 end caps included
- Tracks have pre-installed screws every 6"

### 45° END CAPS

#### 10178: BK, WH

- 5 pieces

### U-CHANNEL

#### ALUMINUM TRACK

#### 10175 BK, WH – 12"

#### 10174 BK, WH – 36"

- 3/4" H x 1/2" W
- 11 end caps included
- Tracks have pre-installed screws every 6"

### DIFFUSER

#### 10179

- 36", cut to size

### U-CHANNEL END CAPS

#### 10176 BK, WH

- 5 pieces

### SPLICE BOX

#### 10189 BK, WH

- Use to splice tape light wires to Romex™ or other wire
- Accepts max. 14 gauge wire
- (4) 3/8" size K.O.
- Intended for low voltage connections only
- 2-3/8" L x 2-3/8" W x 1"



### PLASTIC TRACK

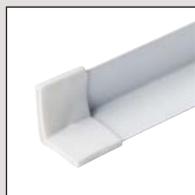
#### 12330 BK, WH – 36"

- 10 pack
- Snaps on the score every 6"

AVAILABLE TRACK/CHANNEL - Black (BK) and White (WH)



45° Track



90° Track



U-Channel



U-Channel with Diffuser



36" Plastic Track



Lithonia Lighting  
Wafer LED Integrated Recessed Fixture  
6" - IC Rated and Airtight

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 6" Wafer-Thin LED recessed downlight with remote driver box combines high quality light output and efficiency while eliminating the housing for competitive affordability. This innovative wafer-slim Type IC design allows easy installation for new construction or remodel from below the ceiling without the requirement of a pot light housing. The LED module maintains at least 70% light output for 36,000 hours. These LED Wafer downlights are intended for closets, attics, hallways, bathrooms, kitchens, basements, soffits, entry ways, porches, garages, stairwells, corridors, nursing/retirement homes, condos, elevators, apartments, and any other small areas.

**CONSTRUCTION** — Ideal for shallow ceiling plenum since a pot light housing is NOT required. IC rated driver and fixture - approved for direct contact with insulation. Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. Round fixture with integral edge-lit LED's. Steel spring clip for easy installation. Plenum rated cable connector to connect from module to remote driver box. Isolated driver integrated inside steel remote box with four 7/8" knockouts with slots for pryout. Suitable for pulling wires with the 12 cubic-inch wiring compartment to accommodate up to (6) 14 gauge insulated conductor, or (4) 12 gauge insulated conductors; making the Wafer LED Downlights much easier to wire in 2in/2out (plus ground) daisy-chain applications and contractor friendly.

**PATENT PENDING.**

**INSTALLATION** — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 6" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 6 1/4 inches for this product. Suitable for installation in t-grid and drop ceiling applications with the WF8643 Pan. 2" plenum space required for installation of the remote driver box.

**OPTICS** — Polycarbonate lens provides even illumination throughout the space.

**ELECTRICAL** — Connect directly to 120V power supply via provided UL recognized driver. High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Dimming down to 10% (See page 2 for recommended dimmers). Replaces 75W incandescent for 865 lumens and 100W incandescent for 1020 lumens.

**LISTINGS** — CSA certified to US and Canadian safety standards. ENERGY STAR® certified product. Wet location. Air Tight certified in accordance with ASTM E283-2004. NOM Certified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Catalog Number
Notes
Type

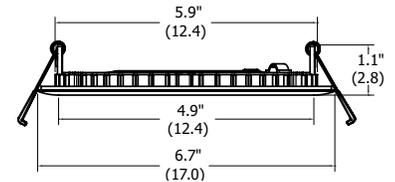
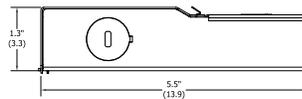
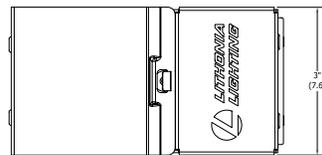
**Wafer LED Recessed Downlight**

# WF6 6" LED Module

IC/Non-IC  
New Construction/Remodel



Specifications	
Aperture:	4.9 (12.4)
Ceiling opening:	6 (15.2)
Overlap trim:	6.7 (17)
Height:	1.1 (2.8)



All dimensions are inches (centimeters) unless otherwise indicated.

**ORDERING INFORMATION**

**Example:** WF6 LED 30K MW

Series	Lamp	CCT/CRI/W/Lumens <sup>1</sup>	Finish
WF6 6" wafer-thin LED downlight	LL LED Low Lumen LED	27K 2700K/80CRI/12.7W/780L	BN Brushed nickel

**Notes**  
1 Total system delivered lumens.

Accessories: Order as separate catalog number.	
WF6 PAN R12	6" new construction pan, retail pack of 12
WF8643 PAN U	Universal new construction pan, unit pack
WFJB U	Remodel Joist Bar
WFEXC6 U	6' 2 pin FT4 cable
WFEXC10 U	10' 2 pin FT4 cable
WFEXC20 U	20' 2 pin FT4 cable
WF6GR MW JZ	6" round oversized trim ring

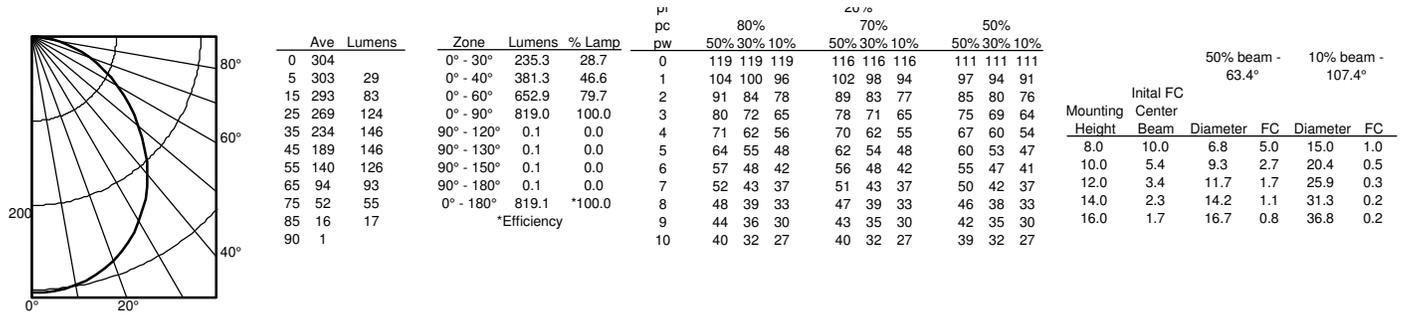


# WF6 6" LED Wafer Module

## PHOTOMETRICS

Distribution Curve      Distribution Data      Output Data      Coefficient of Utilization      Illuminance Data at 30" Above Floor for a Single Luminaire

WF6 LL LED 27K, 2700 K LEDs, input watts: 12.7, delivered lumens: 819, LM/W=64.4, test no. ISF 32780P1



## ENERGY DATA & DIMMING CAPABILITY

6" LOW LUMEN ENERGY DATA				
Color Temperature	2700K	3000K	4000K	5000K
Lumens	780	800	850	900
CRI	80	80	80	80
Lumens/Watt	61.3	63.5	65.9	75
Min. starting temperature	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V	120V
Min. power factor	0.99	0.99	0.99	0.99
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated wattage	12.7W	12.6W	12.9W	12W
Input power	12.7W	12.6W	12.9W	12W
Input current	0.11A	0.11A	0.11A	0.10A

COMPATIBLE DIMMERS					
Leviton	Lutron			Sensorswitch	Synergy/Leviton
6633-PA	Maestro MACL-153M (TX)	Diva/Skylark DVRP-253PCTRP-253P	Panel Module HW/LP-RPM-4A-120	nSP5 PCD 2W	ISD 600 I 120/IP106
IPL06-LED/INC mode	Maestro Wireless MRF2-6ELV	Skylark CTCL-150	Panel Module HW/LP-RPM-4U-120	nSP5 PCD ELV 120	ISD 400 ELV 120/IPE04
6615-P	Gen 3.0 DVCL-153P (T9)	Caseta Wireless PD-5NE	Grafik QS/Wallbox LQRJ-WPM-6P		
	Maestro MSCL-OP153M	Maestro MACL-LFQ	Grafik Eye 3000 Family HWI-WPM-6D-120		
	Caseta Wireless PD-6WCL	RadioRA2 RRD-6NA	HomeWorksQS / my Room LQSE-4A1-D/MQSE-4A1-D/MQSE-3A1/MQSE-2A1-D,120V		
	Grafik T GT-5NEM / GTJ-5NEM	HomeWorks HQRD-6NA	Homeworks QS LQSE-4A-120-D		

\*Requires Lutron Smart Bridge L-BDG2-WH (sold separately)



**Bellevue**

**3 Light 16" Wide Flush Mount Drum**

## Features

- Constructed from glass and metal
- Comes with a frosted glass shade
- (3) 60 watt maximum medium (E26) bulbs required
- Rated for dry locations
- Covered under 6 month manufacturer warranty

## Dimensions

- Height: 5"
- Width: 15-3/4"
- Depth: 15-3/4"
- Product Weight: 5.5 lbs
- Shade Height: 5-1/8"

## Electrical Specifications

- Max Wattage: 180 watts
- Number of Bulbs: 3
- Max Watts Per Bulb: 60 watts
- Bulb Base: Medium (E26)
- Bulb Shape: A19
- Voltage: 110 volts
- Bulbs Included: No



## Dimensions and Measurements

Depth	?	15.75 in.
Height	?	5 in.
Nominal Width	?	16 in.
Product Weight	?	5.5 lbs.
Shade Height	?	5.12 in.
Width	?	15.75 in.

## Included Components

Bulb Included	?	No
---------------	---	----

## Characteristics and Features

Bulb Base	?	Medium (E26)
Bulb Shape	?	A19
Genre	?	Modern
Glass Features	?	Frosted Glass
Light Direction	?	Down Lighting
Material	?	Glass, Metal
Number of Bulbs	?	3
Shade Color	?	White
Shade Material	?	Glass
Shade Shape	?	Drum

## Electrical and Operational Information

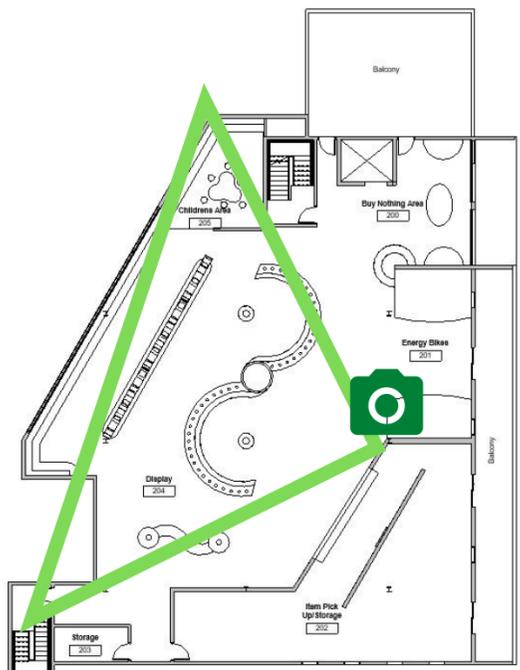
Power Source	?	Hardwired
Voltage	?	110
Wattage	?	180
Watts Per Bulb	?	60





*Phase VIII*

Final Design



Wood Flooring



Cork Flooring

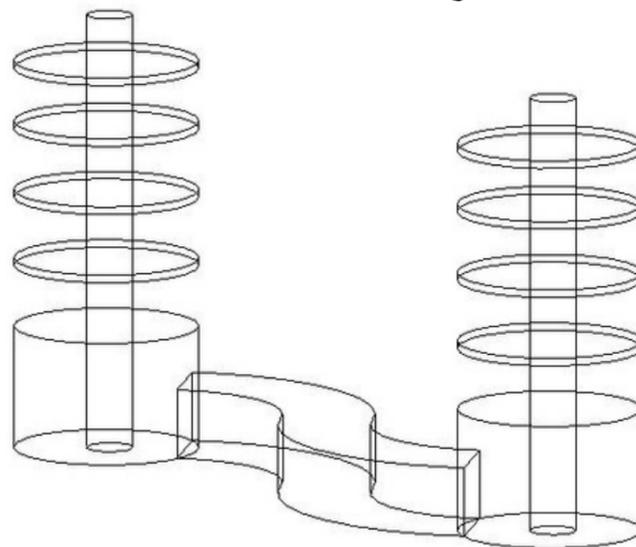


Tile

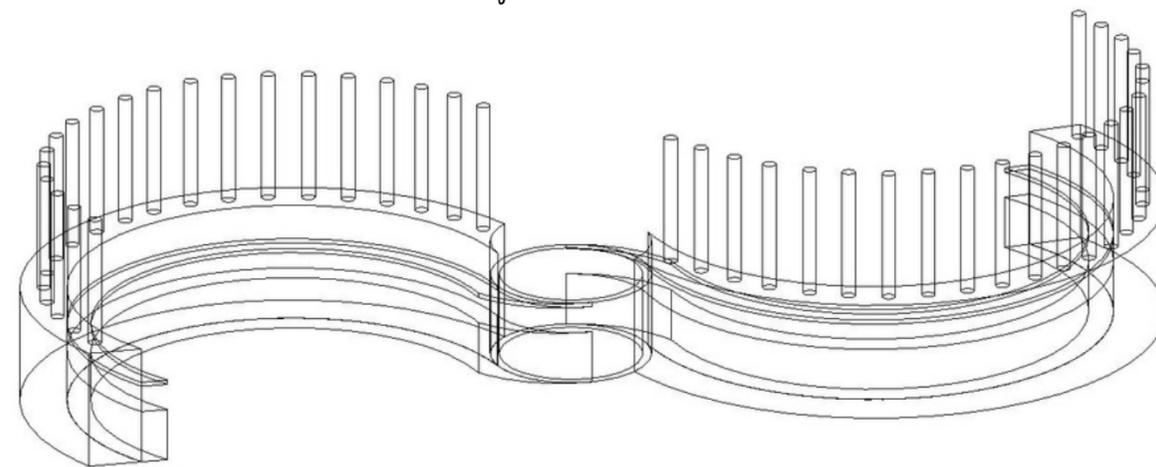


Wall Covering

Display that also functions as seating



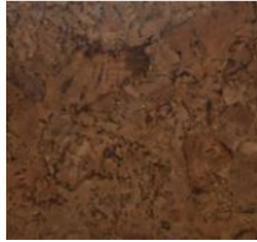
Bulk products stored in tubes



Bulk Display



Wood Flooring



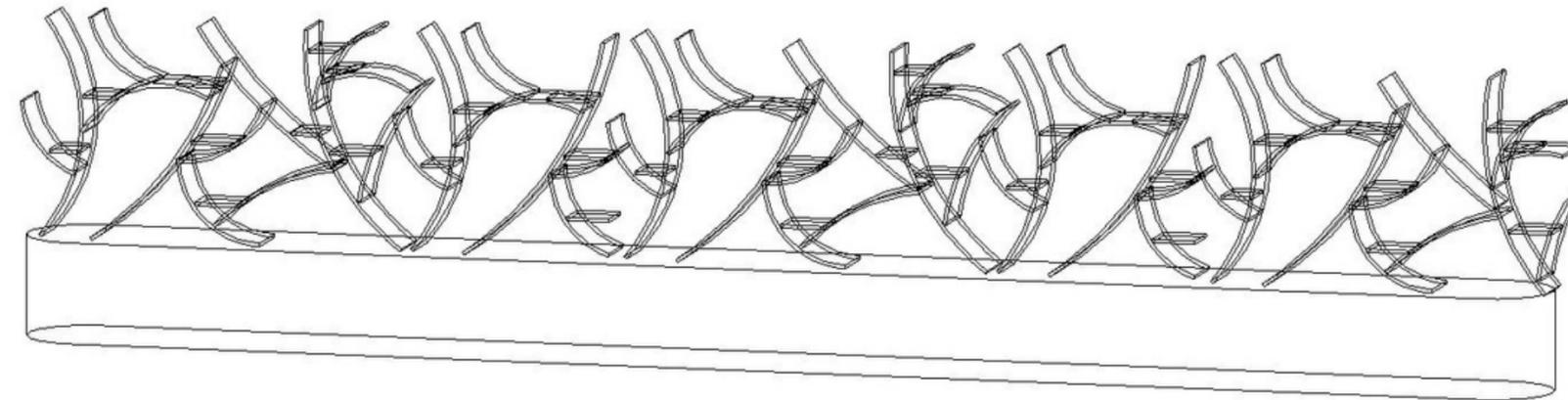
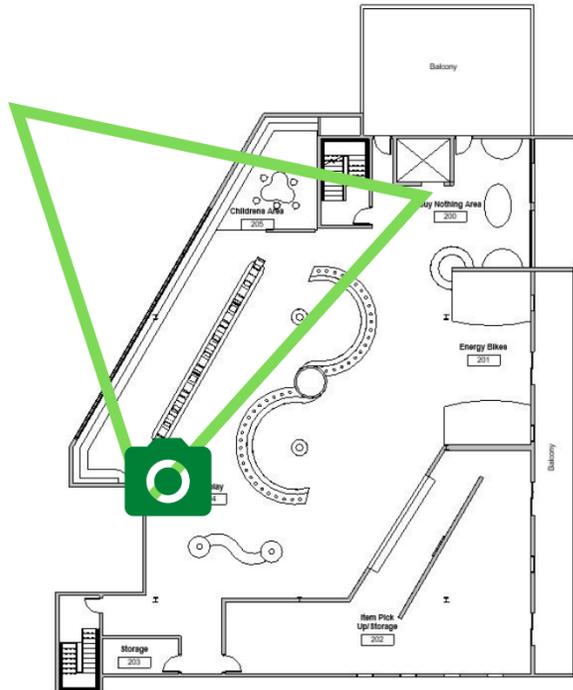
Cork Flooring



Paint



Upholstery



Custom leaf design product display that also functions as a partition

Product Display



Paint



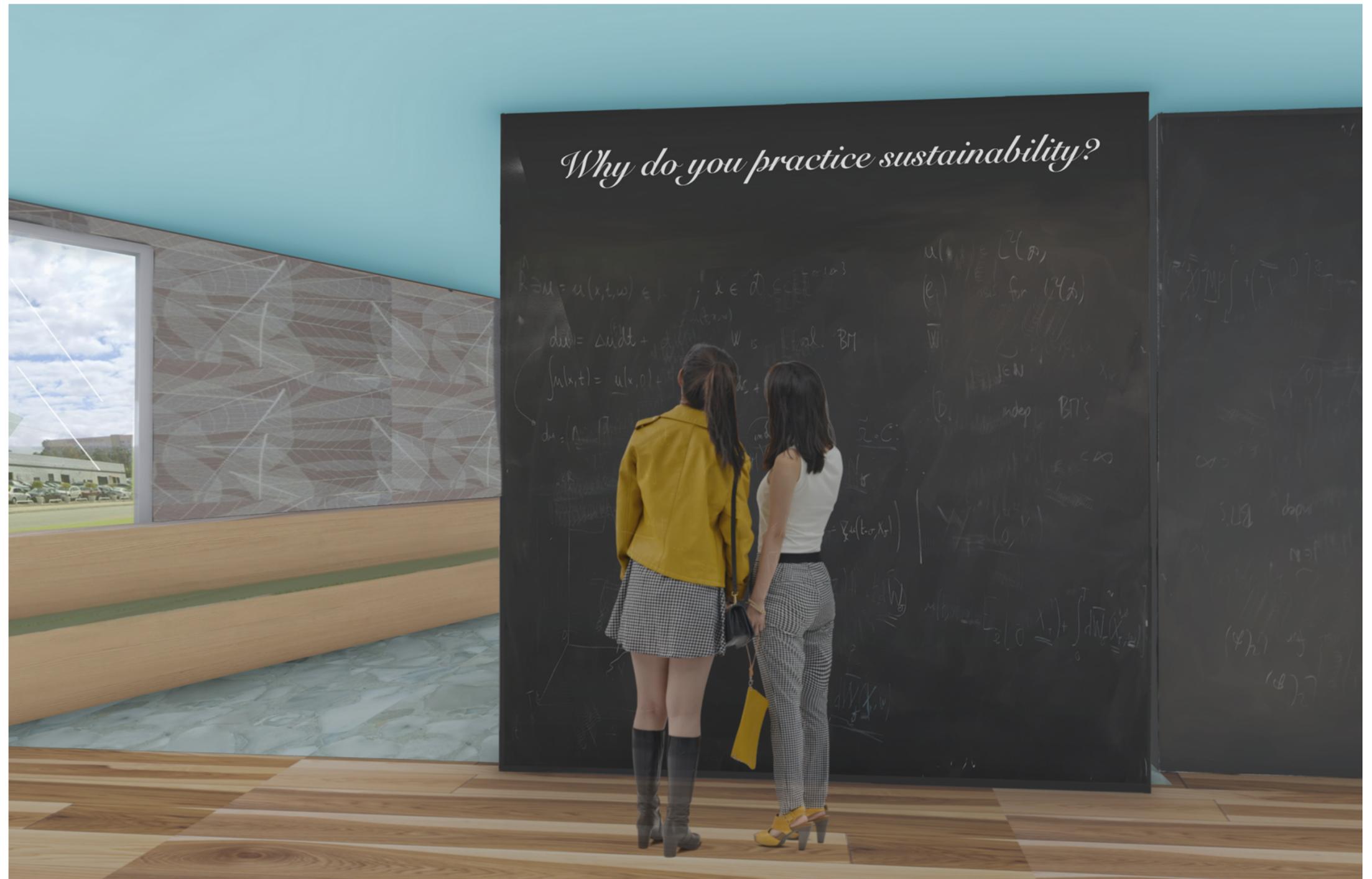
Flooring



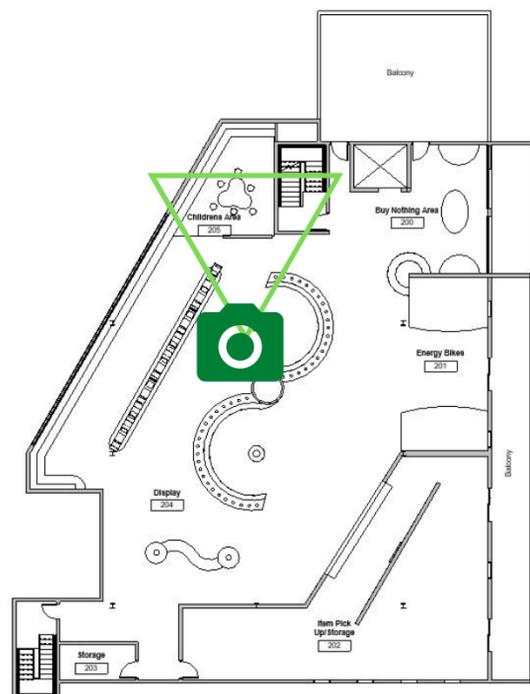
Chalk Board  
Paint



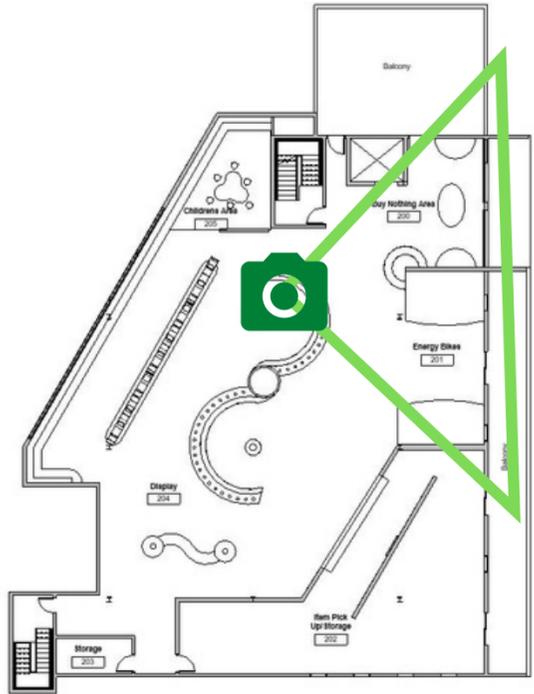
Wall Covering  
Paint



Chalk board wall to write  
inspiration for going sustainable  
and to use as an Instagram  
background



Chalk Board Wall



Wood Flooring



Cork Flooring



Paint



Wall Covering

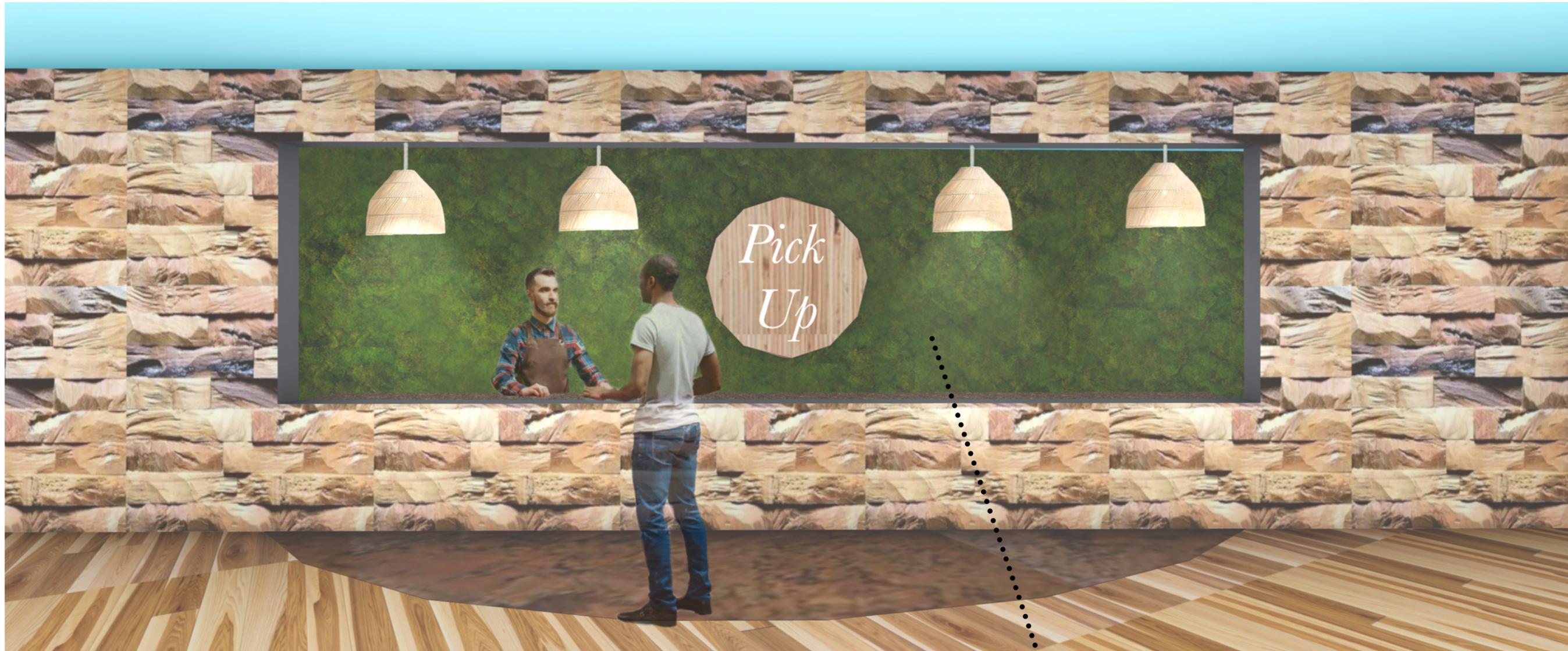


Buy Nothing Area Elevation

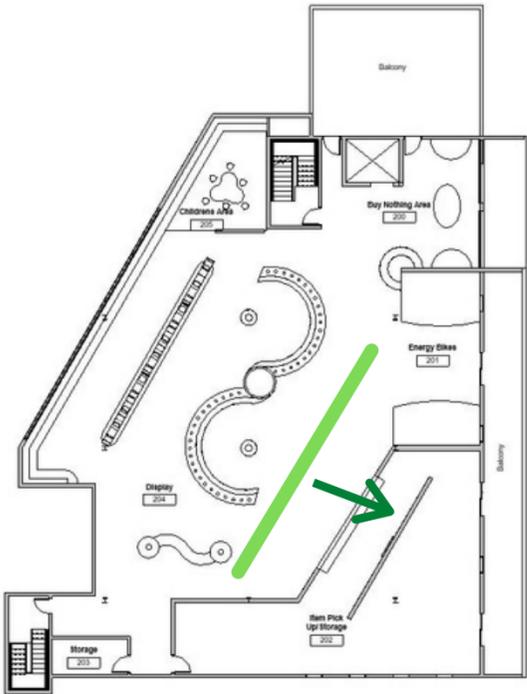
Stationary bikes that generate energy for the space while they are being used

Buy Nothing Area for people to leave products that they don't need anymore that someone else might- receiving something second hand is more sustainable than buying new

Buy Nothing and Energy Bikes



Live wall behind pick up area



Live Moss Wall



Cork Flooring



Paneling



Wood Paneling

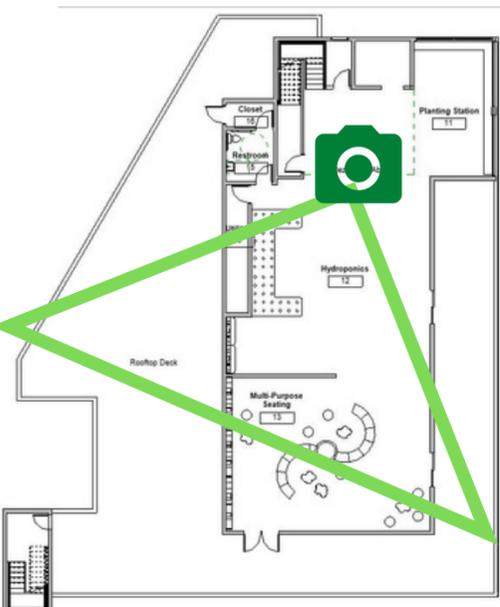
Product Pick Up



Worm farm that shows how things decompose and how a compost bin works

Vertical hydroponic system as well as horizontal one

# Hydroponics/Worm Farm



Wood Flooring



Cork Flooring



Paint

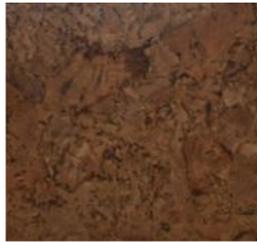


Wall Covering

Planting Station so that you can plant small food items in a pot in your window sill instead of buying from the grocery store where your food comes from hundreds of miles away.



Wood Flooring



Cork Flooring



Wood Panels



Live Moss Wall



Planting Station

