INTERIOR DESIGN STUDIO I

AVERY VITTORIA

PROFESSOR BUELVAS INDS 110 SPRING 2017

PROJECT: Micro-Apartment Design

CLIENT: Andrea Ponti

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PHASE I - PART A:

RESEARCH

MICROLIVING



Micro Living Units are classified as usually open living spaces between 50 and 350 square feet (14-32 square meters), designed to fully accom**needs** of any person including things such as a sleeping space, bathroom, full- working kitchen, and seating

area. Micro Living is becoming increasingly popular for many reasons including, convenience, price, easier access to amenities, and the reduction of the modate the **basic** carbon footprint that larger places create. Micro Living units focus on functionality, efficiency, and the maximization of storage.



Due to the fact that Micro Living is becoming more and more popular, many different solutions are available for maximizing space, efficiency, and functionality. These many solutions include basic storage ideas such as floor to ceiling storage, many shelves, and using stairs as storage, as well as creating storage spaces in objects with other functions. Using fewer walls, semi-opaque or glass materials, and mir-

rors can help create the illusion that the space is larger than it really is. A common solution to Micro Living is the use of movable walls. shelves, cupboards, tables, etc., to create different options for **func**tionality in a single space. Raising the bed above the ground plane to create an area below it also increases the overall square footage, again helping to maximize the space to its fullest extent.













ANDREA PONTI PRODUCT DESIGNER

Italian product designer, Andrea Ponti, does everything but limit himself when it comes to designing. Producing state-of-the-art products influenced by his education and personal interests, Ponti has successfully made a name for himself and his company. As a researcher (around 2006) with **Kyushu University**, a school that understands the

global challenges such as environmental issues, resources, and energy problems, Ponti took these topics into consideration while designing. Kyushu University opened a research center around this time for Carbon Neutral Research Energy and Mathematics for Industry which seems to have a profound impact on many of Ponti's products.

In 2012. Ponti founded the Ponti Design Studio, a Hong Kong based product design company. The company specializes in "highly distinctive brand-building and iconic design," creating products that "technocombine logical excellence with emotional design language." The products include things such as technology, electronconsumer ics, audio equipment,

furniture, and lifestyle complements, with clients across Europe, Asia, and North America. The company focuses on principles of simplifying and reducing, while striving to preserve appearance and functionality. The Ponti Design Studio creates Industrial and Product Design, Idea Generation and Concept Design, Packaging and Graphic Design, as well as Branding and Art Direction.

Ponti's design style is rational and minimalistic, often using innovative materials and creating unique, conceptual ideas designed for the individual. Ponti strives to create a balance between opposing elements, such as form and func-

tion, simple and complex, and essential and optional. It is his goal to produce products that each individual will feel comfortable using in their own, unique way. Ponti's products blend ideas of universalism, timelessness, and minimalism.

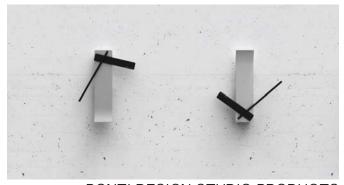




"The design process starts from designing the product - the physical object that is the essence of a brand. Subsequently, the identity of the brand is created around the product by progressively exploring and polishing the design language used to design the physical object."

- Andrea Ponti





PONTI DESIGN STUDIO PRODUCTS

www.andreaponti.com

www.coroflot.com





es-

Andrea Ponti's style is

extremely minimalis-

tic. In his own designs

and what he looks for

in a home. He very much appreciates the

sleek, clean-cut look,

and finds excellent

sential. Ponti's design

revolves around effi-

ciency and often the

use of technology, as

should his home. The

use of innovative mate-

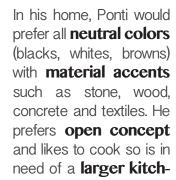
rials in his designs are also key, and should

also be reflected in his

craftsmanship

home. He is fascinated with travel, and more specifically, Japanese culture and aesthetic. He closely studied nature and wisdom, and organic chemistry, all deriving from Japanese art and design. Many of his designs represent a blending of two opposite cultures working in perfect harmony. A balancing act is shown in many of his products, something he would appreciate the ability to enjoy every day.





en. For Ponti's home, he would like it to be a place to get away from work, relax, and rejuvenate the mind. Due to his job, he does not have much free time, and therefore does not have many hobbies. He does, however, love

to **travel**. This can be incorporated into the design of his home in things such as displays or overall style. His home should be modern with a Japanese twist, incorporating **state-of-the-art** appliances and technology.

"We live surrounded by objects: some are ordinary, others are iconic [...] we feel the objects in the space around us and we value them, according to our personal experience and individual perception. This individual perception is at the heart of our design philosophy and language.

- Andrea Ponti













Use of Textures Stone, Wood, & Textiles



Japanese Influence
Bamboo & Absence of Non-Essentials



Minimalistic, Modern Style Sleek, Clean, & Horizontal

MOODBOARD

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POPULATION: 1,290,000,000

LANGUAGE: Cantonese

CLIMATE: Sub-Tropical

TRANSPORTATION

MTR STATIONS:

- Kennedy Town
- HKU
- Sai Ying Pun
- Sheng Wan
- Hong Kong
- Central
- Admiralty - Wan Chai
- Causeway Bay
- Tin Hau
- Fortress Hill
- North Point
- Tai Koo
- Sai Wan Ho
- Shau Kei Wan
- Chai Wan

GREEN SPACES/PARKS

- -Tamar Park (1)
- Bauhina Garden (2)
- Lockhart Road Playground (3)
- Victoria Peak (4)



- Wan Chai Park Community Garden (5)
- Dominion Garden (6)
- Hong Kong Park (7)
- Choi Sai Woo Park (8)

HONG KONG ISLAND ANALYSIS

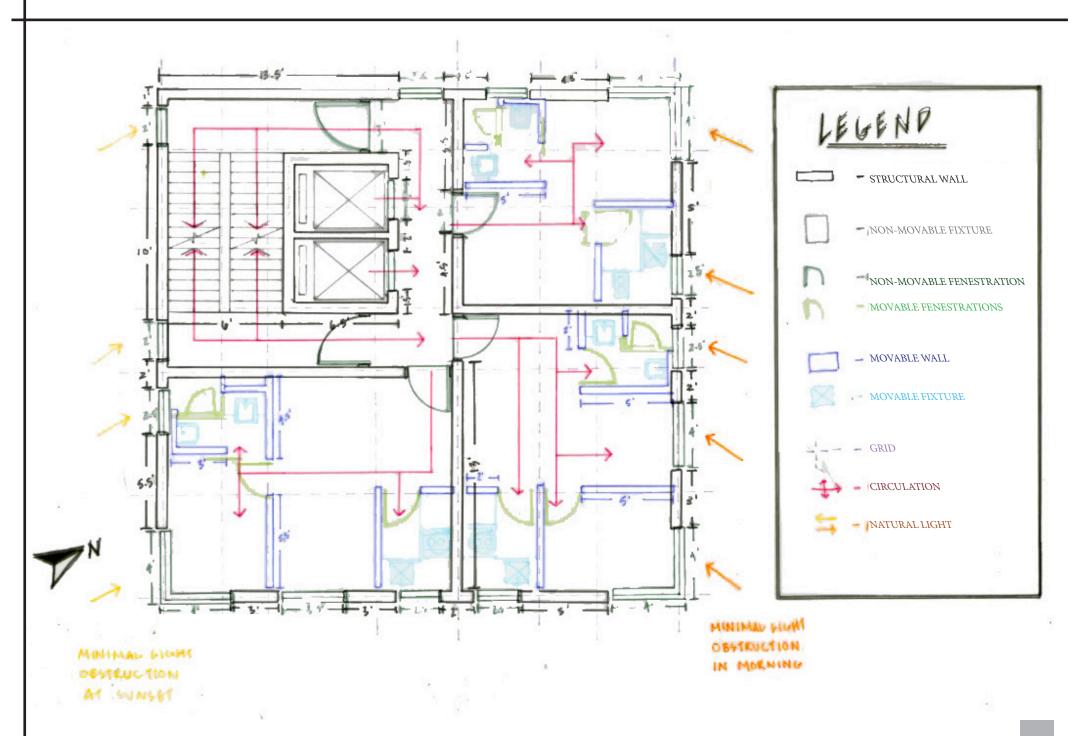
POINTS OF INTEREST

- Pacific Place (1)
- Hong Kong City Hall (2)
- Times Square Hong Kong (3)
- Hong Kong Central Library (4)
- Statue Square (5)

- Hong Kong Conventional Exhibition Center (6)
- Hong Kong Police Headquarters (7)
- Central Plaza (8)
- China Hong Kong Tower (9)
- Saint Paul's Hospital (10)







Presented at the 2017 SXSW festival, Kasita's home has the ability to be controlled completely by a mobile app. This mobile home encompasses only 352 **square feet** (33 square meters), but includes all the basic amenities a person needs. Kasita launched these micro dwellings as a start to their end goal of solving the **housing crisis** in America. The outside is created by steel

framework and aluminum composite panels pre-fabricated tiny with windows that can be tinted on command. The interior comprises of a lounge area, living room that doubles as a bedroom, full kitchen, and bathroom with a shower. The ceilings are 10 feet high, which keeps the space feeling bright and airy. The home also comes with Amazon's Hands-Free Echo Dot, allowing users to control all functions with only their voice.

KASITA HIGH-TECH MICRO DWELLINGS













In Wroclaw, Poland, Szymon Hanczar began by creating a place merely for sleeping, but later decided to redesign it in order to add **feet** (13 square mea more "homey" feel. He maximized storage by using every

possible empty space, as well as using many While the entire space ters), Hanczar manages to squeeze in a kitchen, bathroom, and

bedroom with plenty of space left over for dual purpose items. seating and working. He even adds decois only 139 square rative touches that are functional as well, such as his bike on the wall that creates a beautiful focal point.



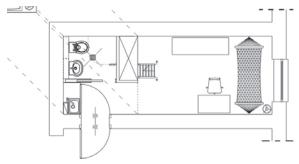


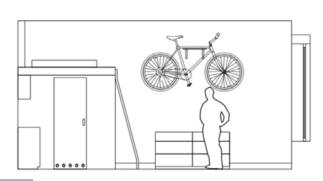








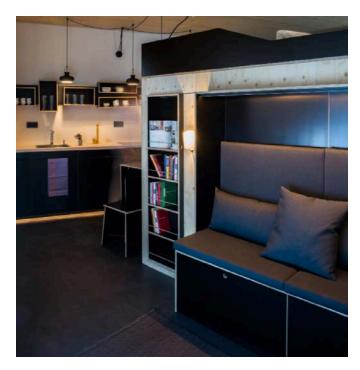








SZYMON HANCZAR CITY HOME





While this space in seating area, and storitself is not a miall the qualities of one. Nils Holger Moormann came up with for **space saving**. A kitchen, sleeping area,

age area are all eascro-apartment, it has ily accessible in this space saving box. Moormann states that the box is "a room witha creative solution in a room, condensing enough features and space to take the air-

iness of the rest of the apartment into consideration." There is storage around the edges of the cube, as well as a large walk-in closet on the inside, maximizing the space to its fullest extent.







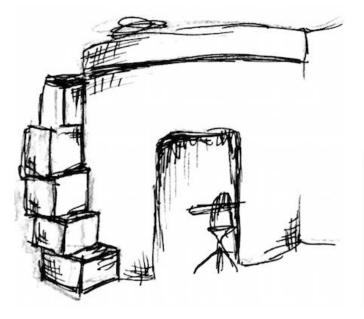


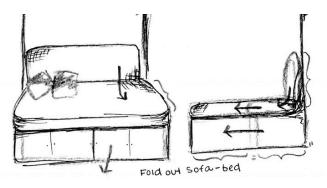


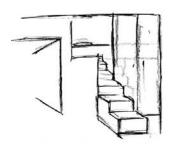
NILS HOLGER MOORMANN SPACE SAVING BOX

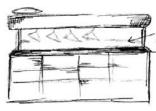


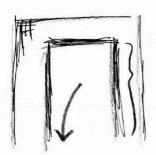
SLEEPING SPACES

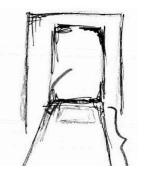


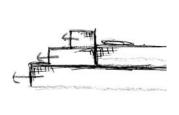


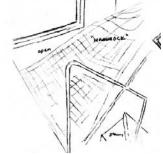


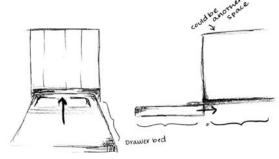


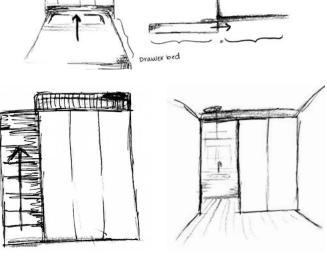


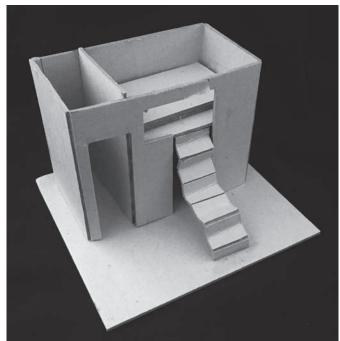


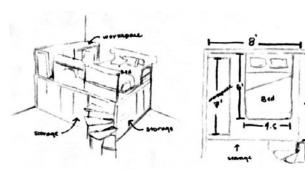


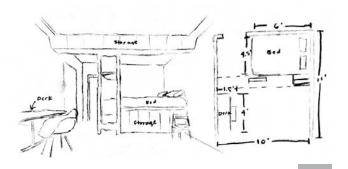




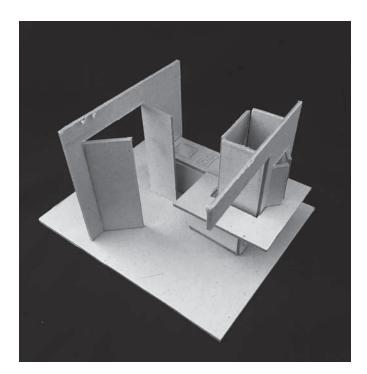


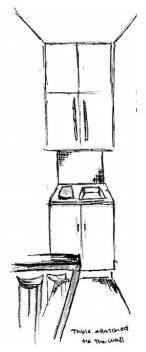




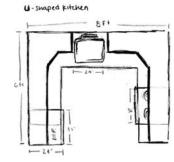


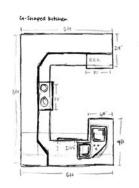
Phase I - Part A // Precedent Studies



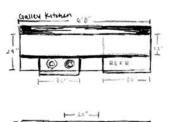


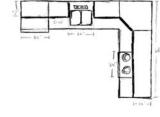


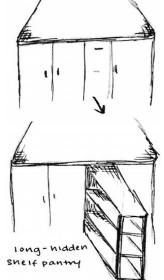




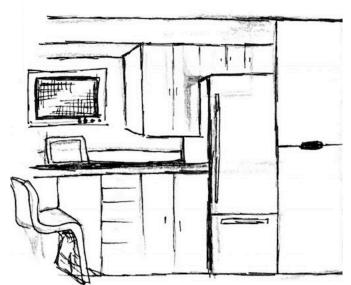


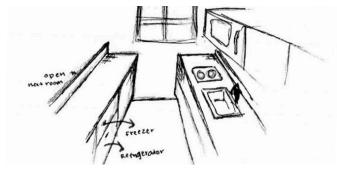






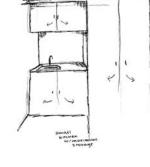


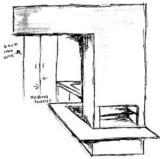


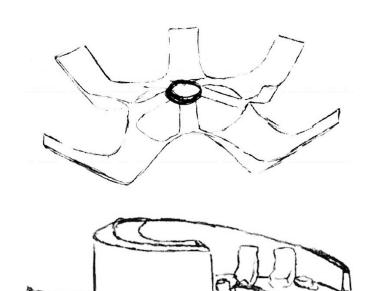


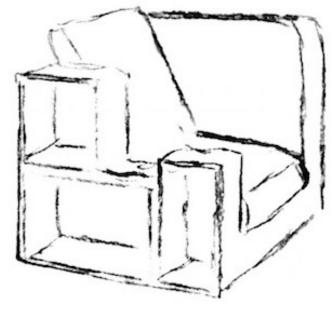




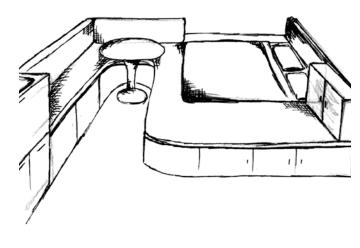




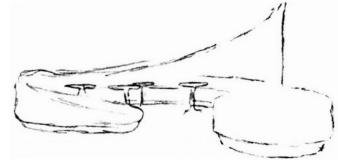


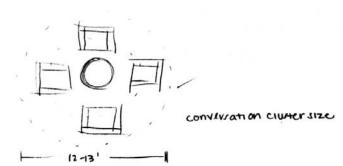


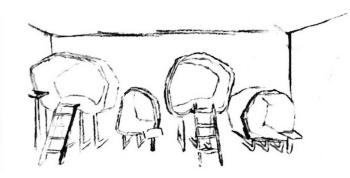
SEATING AREAS

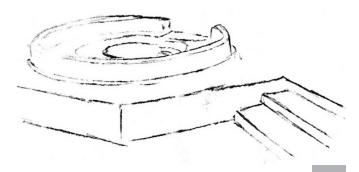




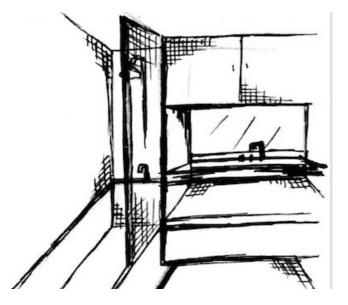




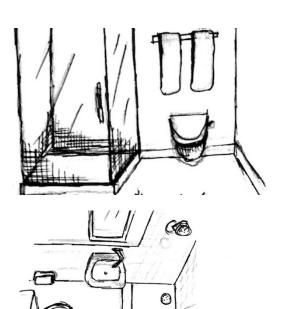




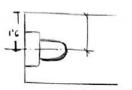
BATHROOMS



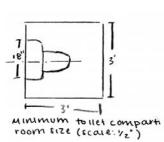


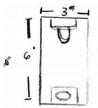






Reccommended distance from side wall to centerin of toilet (scale: '/2")

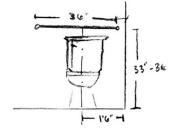




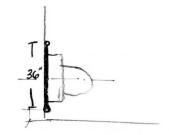
Minimum half bath With toiled & sink across one another

MINIMUM nouf bath

with tollet and sink next to each other

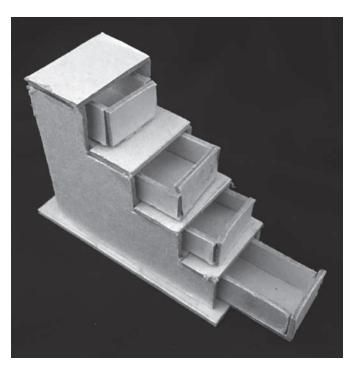


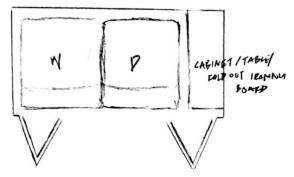
SIZE of grabbar

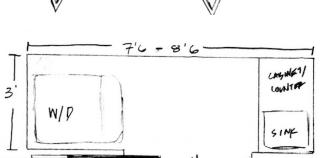


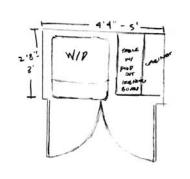
Location of grab bar

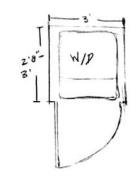




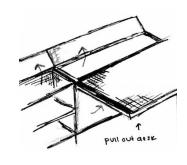


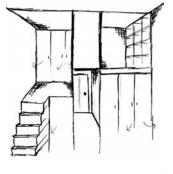


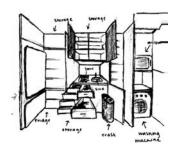


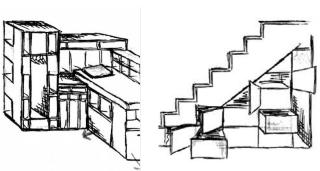




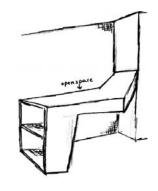


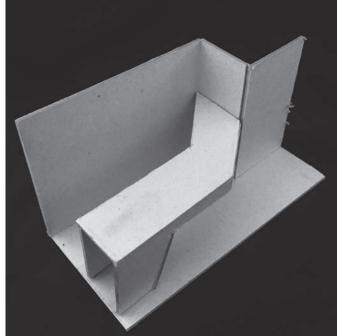


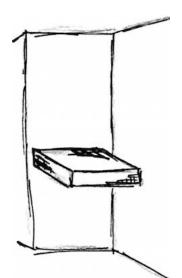












OTHER

PHASE I - PART B: CONCEPT

The concept for An-tionality, minimalism, drea Ponti's apart- and Balance. His dement was based, for signs are all very sleek the most part, on his and clean-cut, all serve designs and philoso- and important purphies. The three most pose, and often more important principles than one, and they all that run throughout his are balanced, whethproducts were func- er by culture or style.

BALANCE

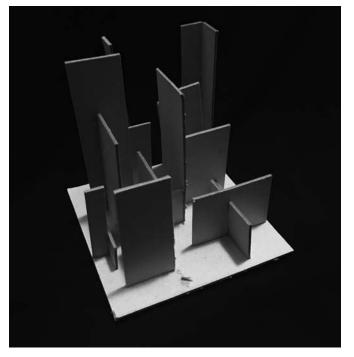
MINIMALISTIC

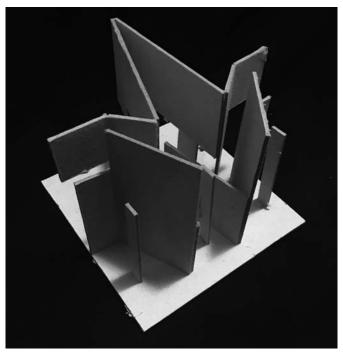
After deciding on three "Subconscious Stimustatement

concept words, the lation." This statement goal was to come up was based not only with one statement off of the three origthat encompassed all inal words, but also three of those words. Ponti's desire to feel The final concept refreshed and rejubecame venated in his home.

SUBCONSCIOUS

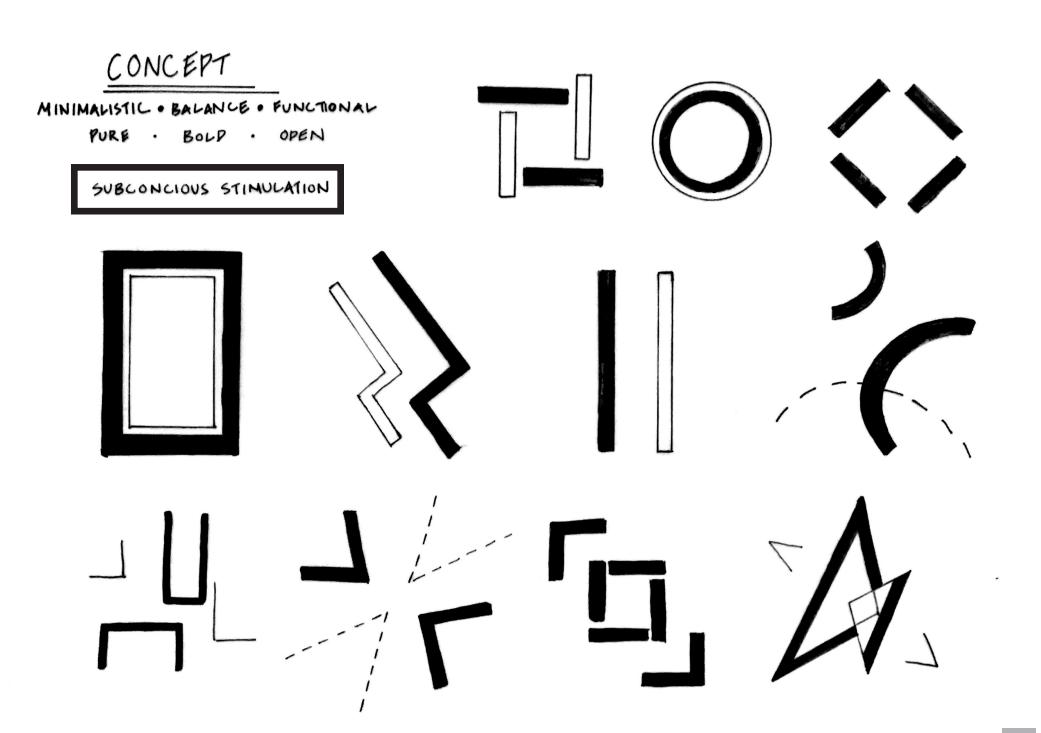


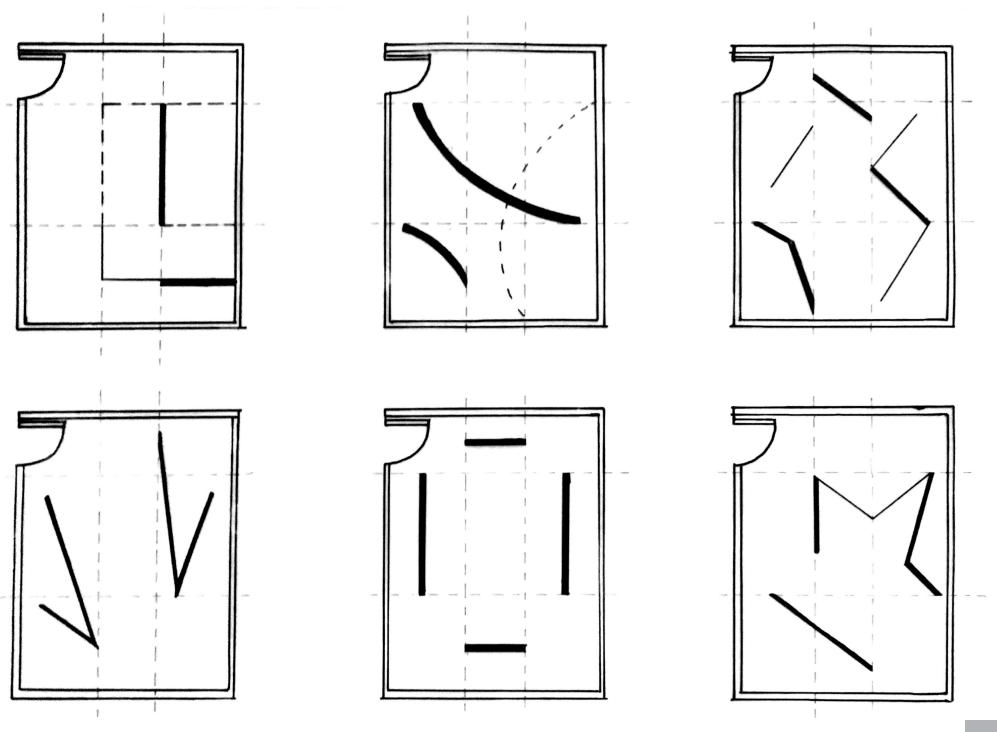




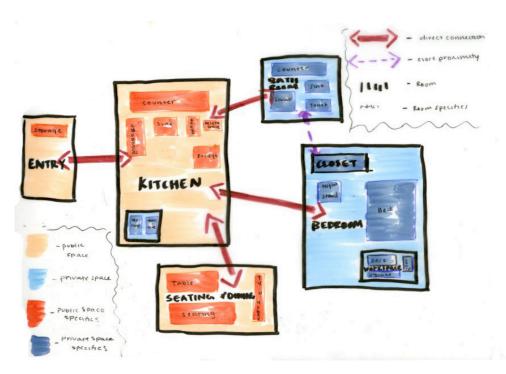








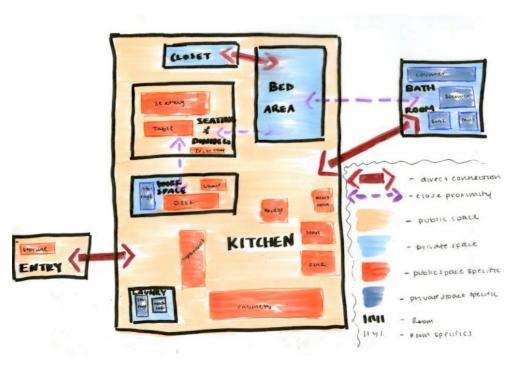
Phase II // Diagrams

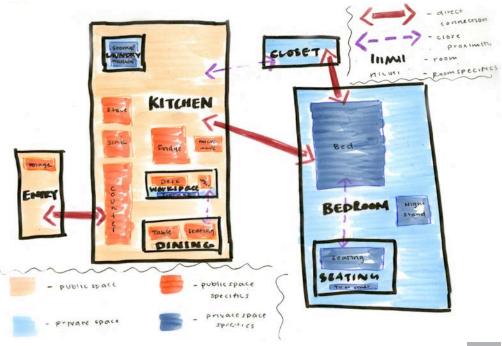


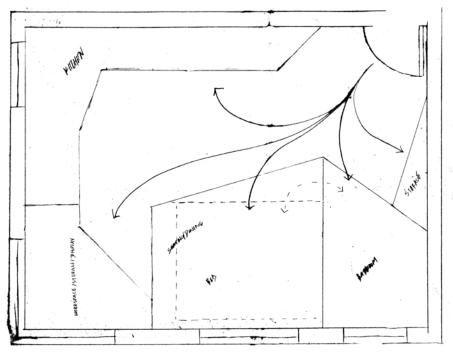
In his home, the Andrea Ponti will need first and foremost, the **basic necessities** of a home, such as a bathroom, kitchen, sleeping area, seating, and storage. For his home in partic-

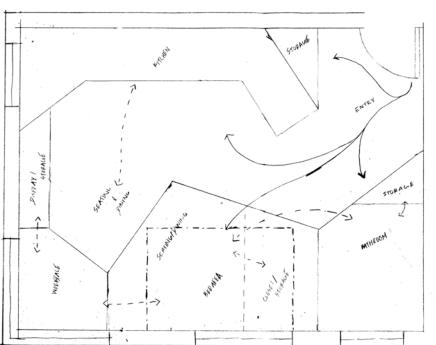
ular, the kitchen needs to be a little larger, and there should be ample storage and display for his travel or work related items. He will also need a **full closet** for hanging his suits for work. The space should be very open and as **spacious** as possible with the allotted square footage, to allow him to feel relaxed and **rejuvenated**, as opposed to cramped.

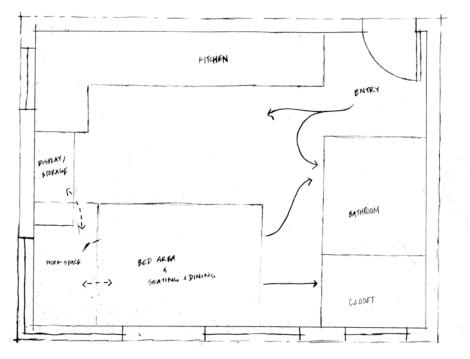
BUBBLE AND ADJACENCY STUDIES









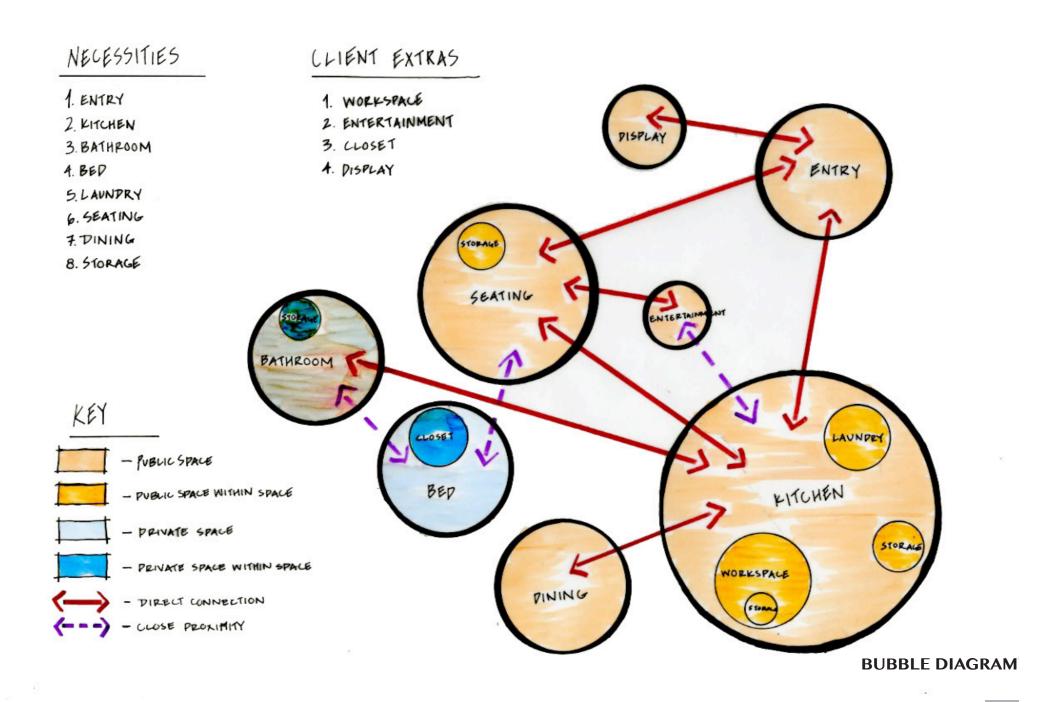


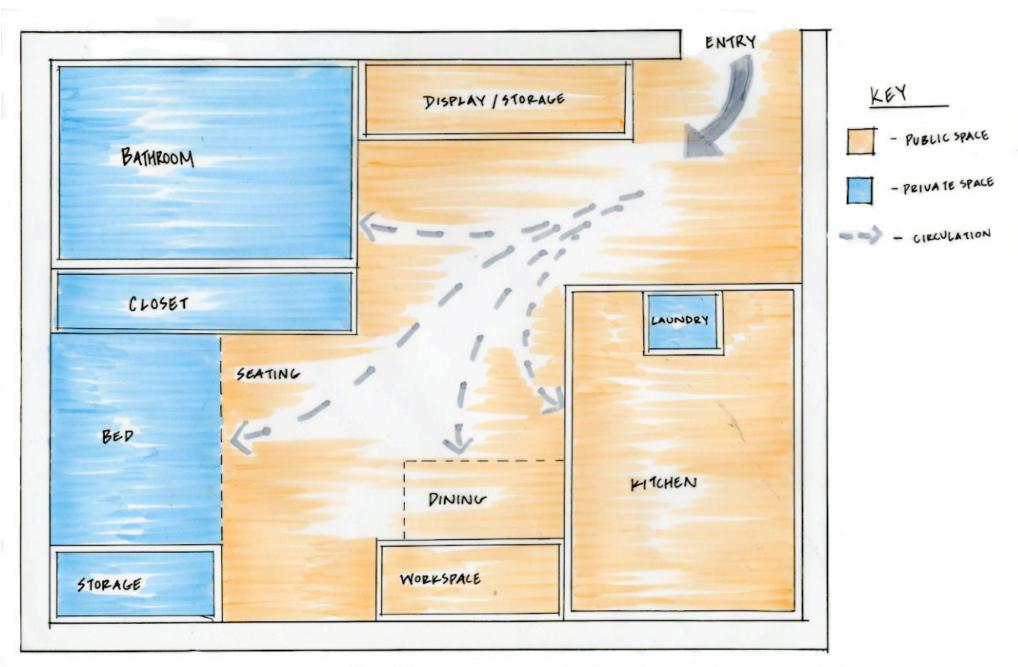
After taking into consideration all the needs of my client, I began studying how the space would come together. I used my parti diagrams to guide my design, while keeping in mine all the different pro-

grammatic requirements and sizes. My main focuses were a large kitchen and open space, so I tried to revolve the rest of straight lines to keep the space around that, which also allowed me to keep the area very

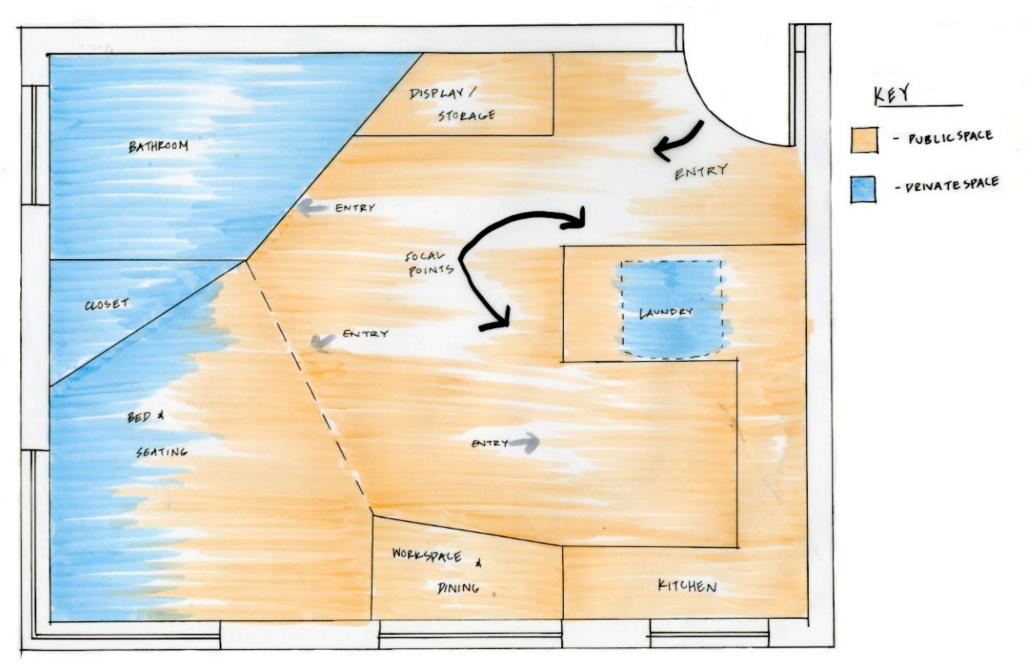
spacious, giving the illusion that the space is bigger than it actually is. I leaned more towards angles and the space minimalistic, while adding the "stimulation" aspect.

BLOCK DIAGRAM AND FLOOR PLAN STUDIES

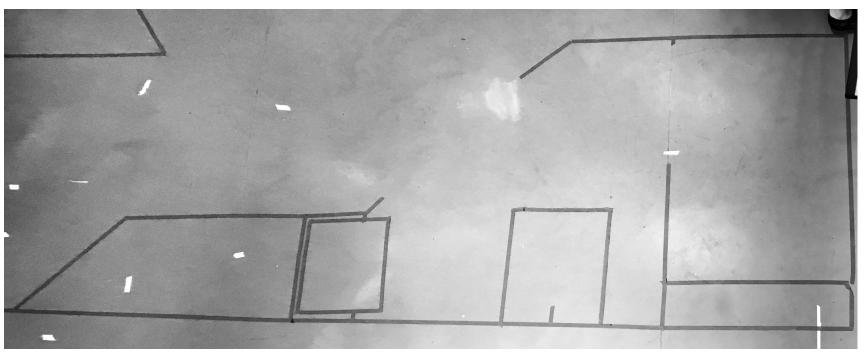




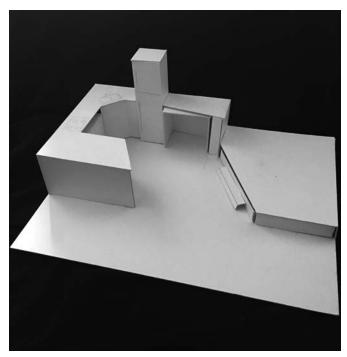
BLOCKING DIAGRAM

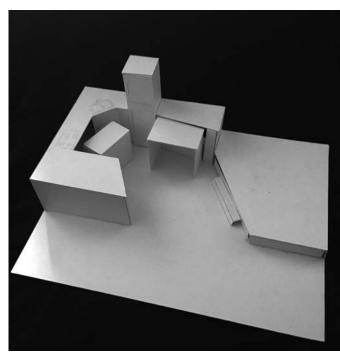


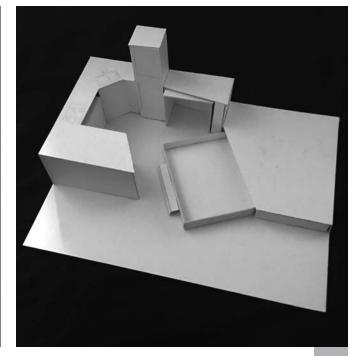
FUNCTIONAL DIAGRAM



After creating a good layout, I did a model of it, as well as a tofull-scale "mock-up" with tape in order to see what the space would actually look like. This allowed me to see what areas were working and which were not. The mock-up shows the bathroom and entry area and the model shows the whole space and how things can be **moved** and rearranged to create new spaces.



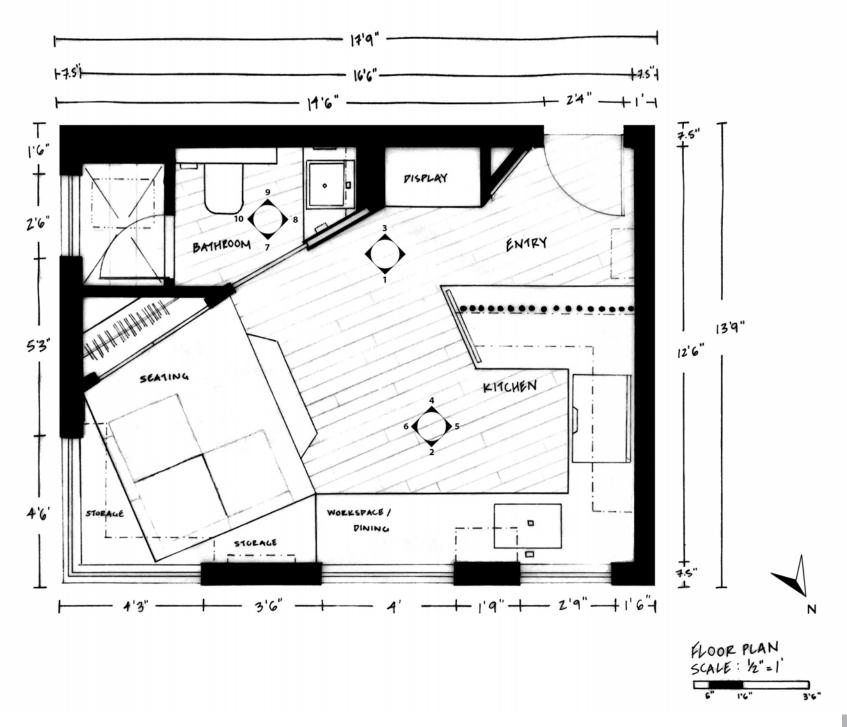


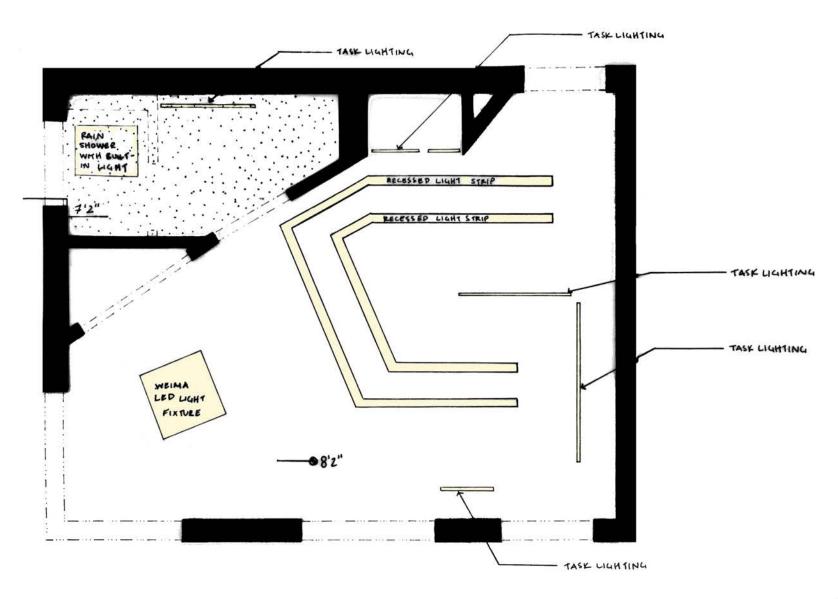


Phase II // Model Exploration & Mock-up

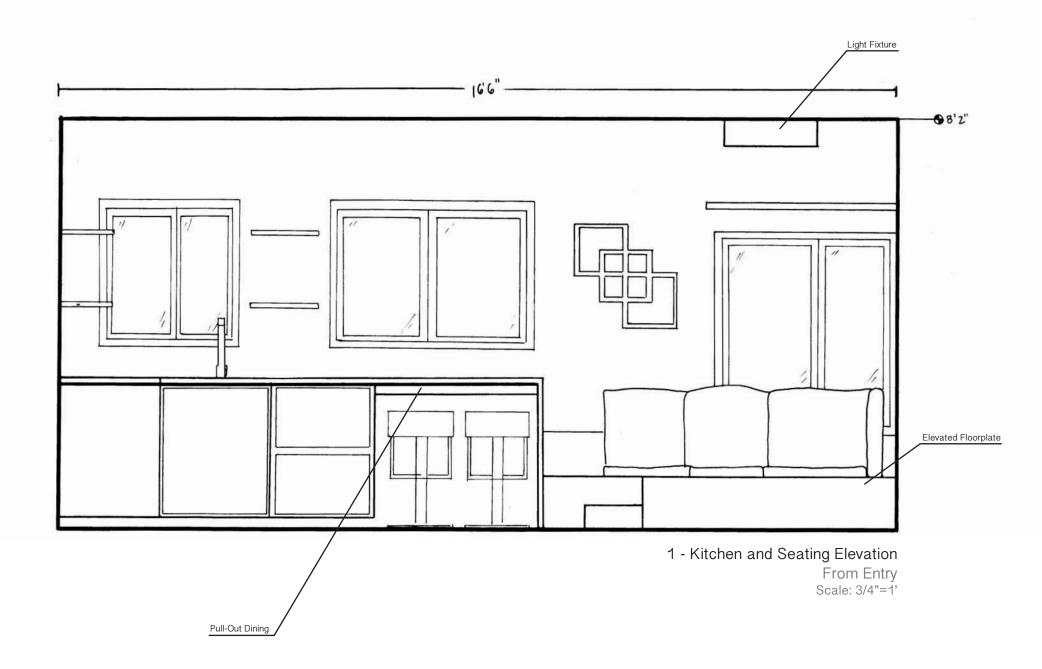
PHASE III

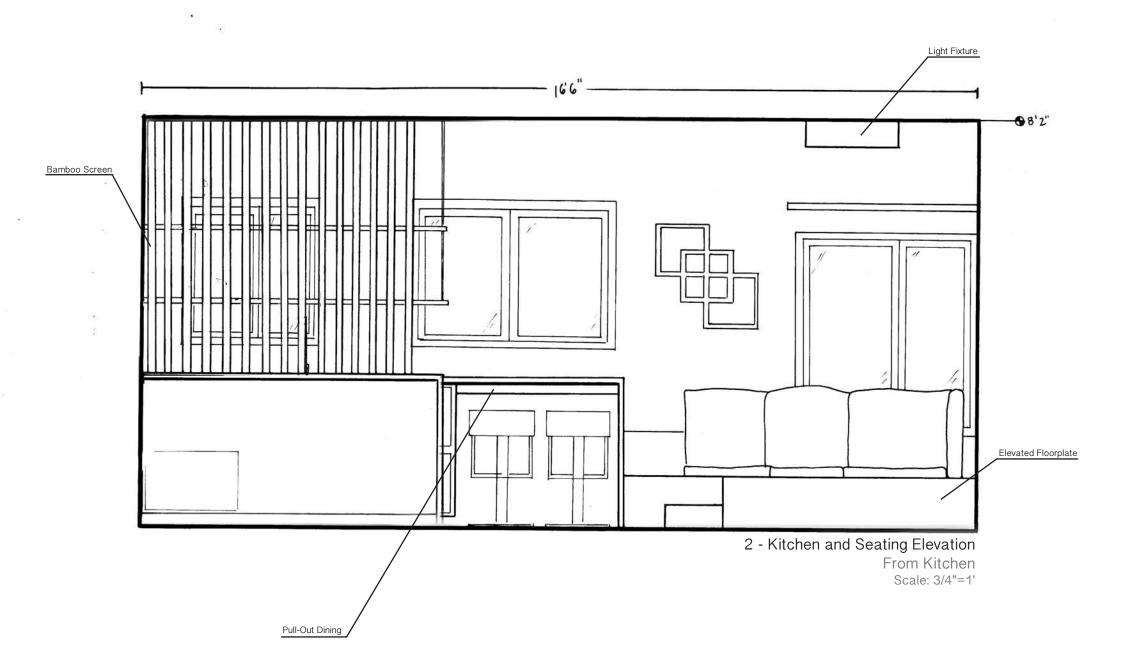
DESIGN DEVELOPMENT

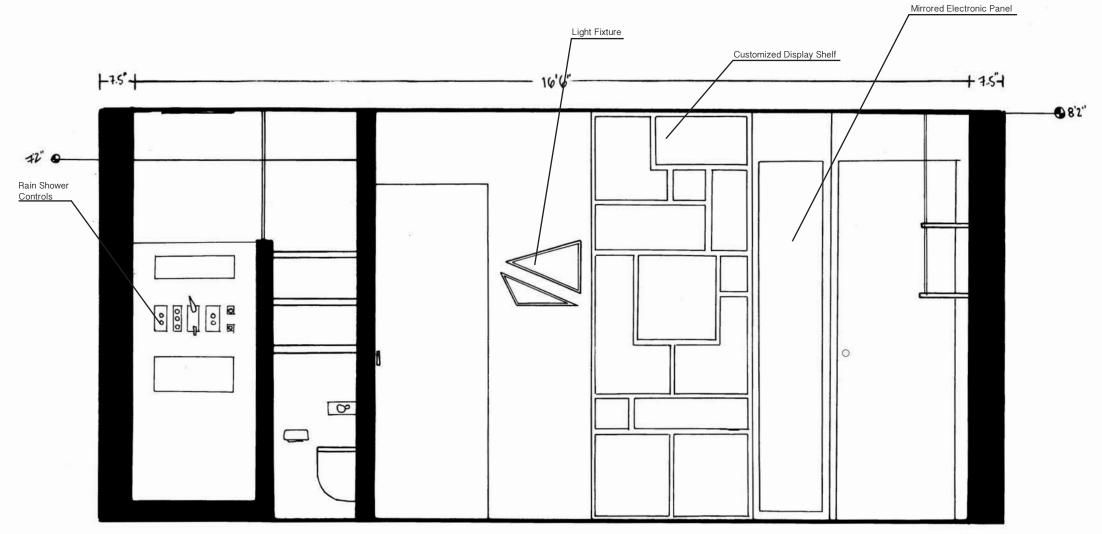




REFLECTED CEILING PLAN SCALE: 1/2"=1"

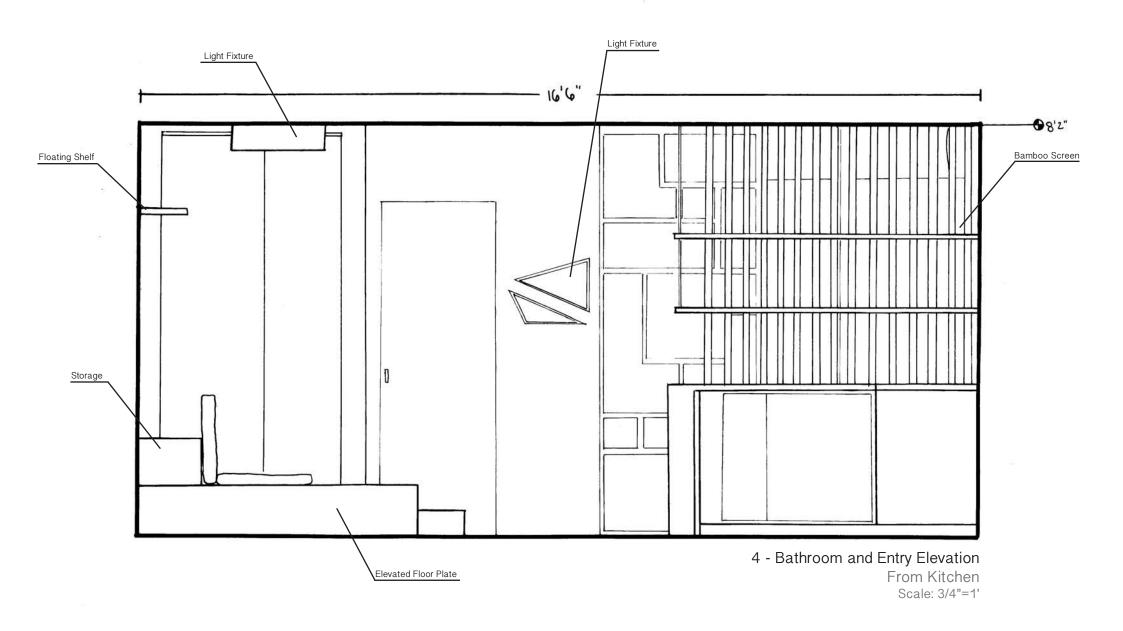


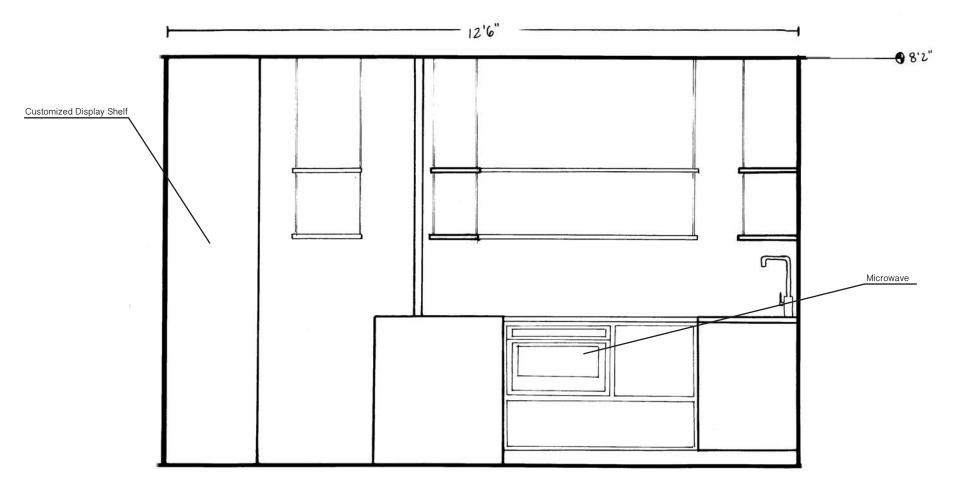




3 - Bathroom and Entry Section

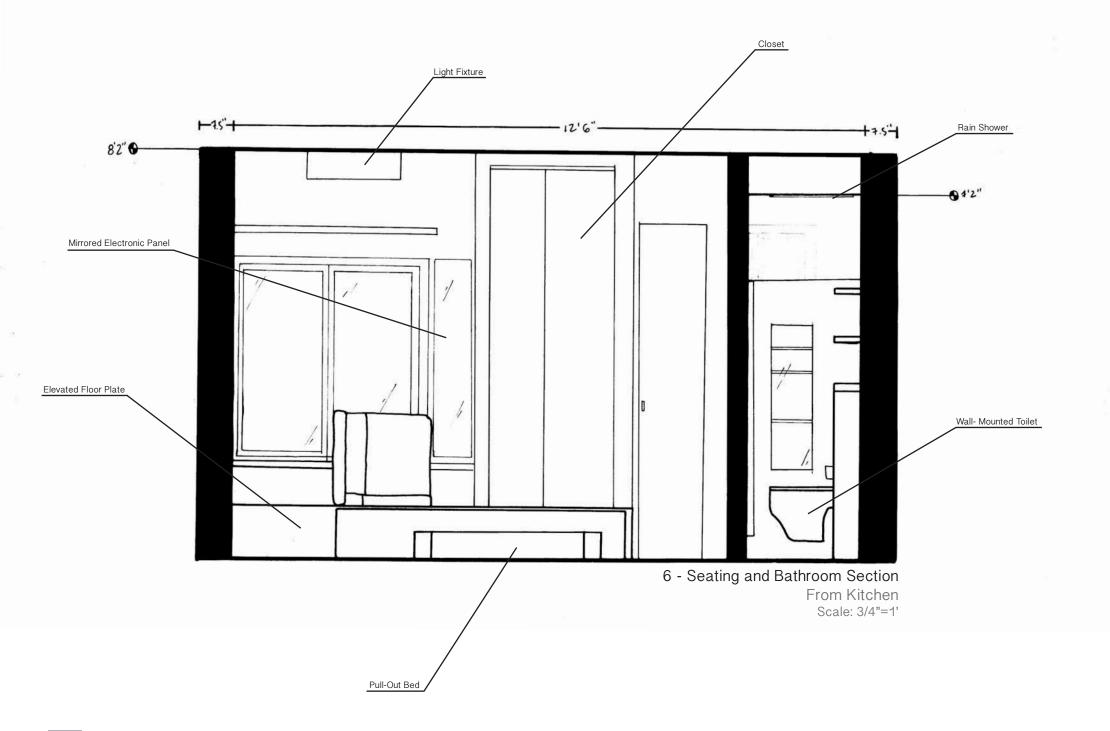
From Entry Scale: 3/4"=1'

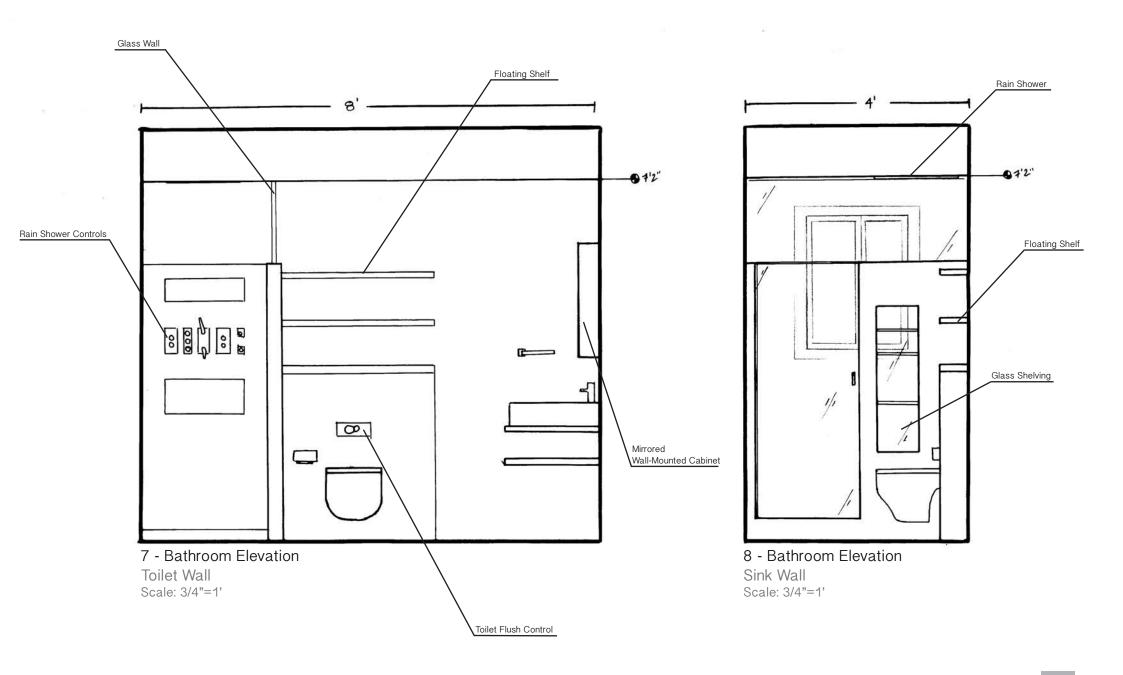


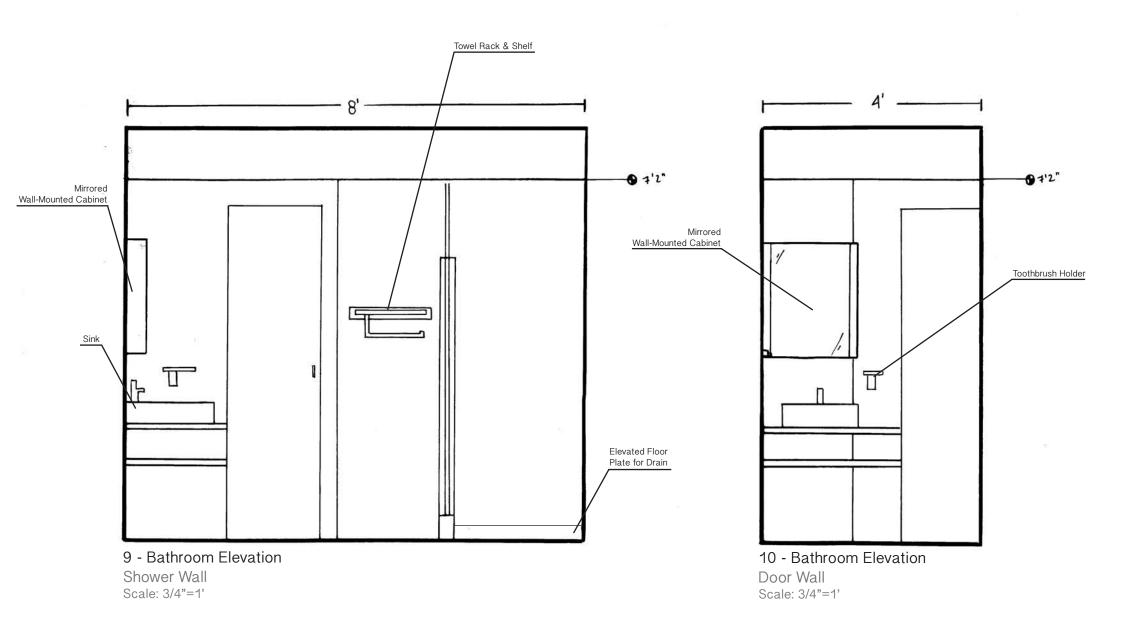


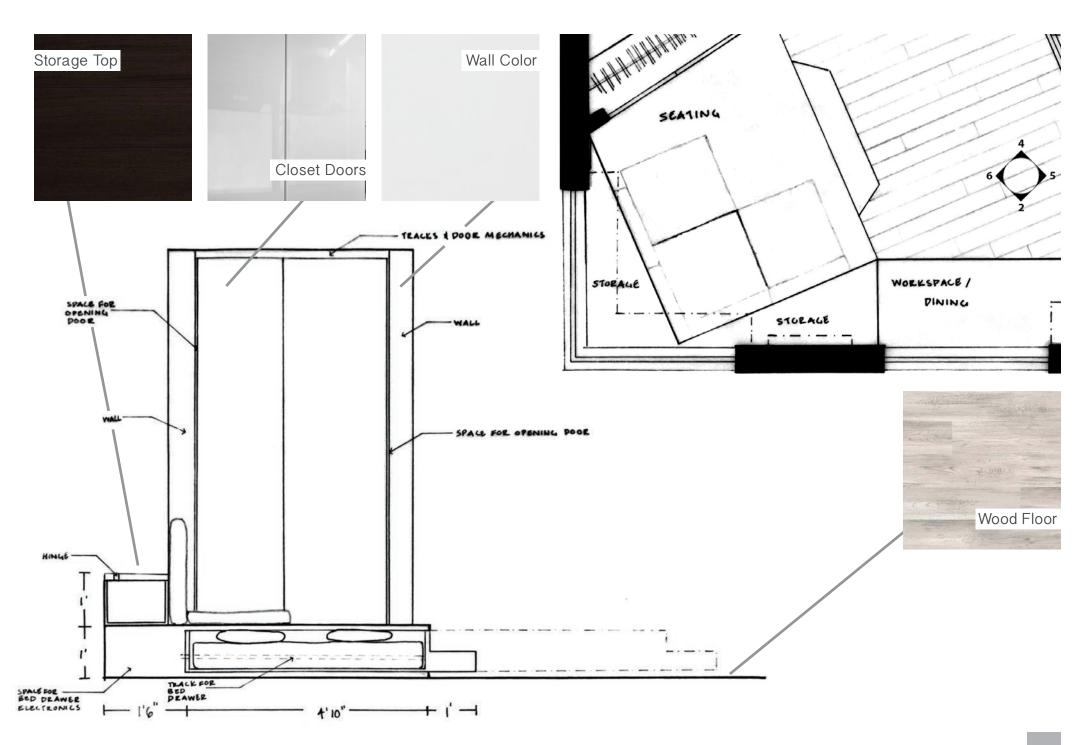
5 - Kitchen and Entry Elevation

From Seating Scale: 3/4"=1'













COOK-TOP Kitchen Thermador Dimensions: 31"w 21"d



STOOLS Kitchen Wade Logan



FAUCET Kitchen Viadurini

Kitchen

SINK Kitchen

Kraus

MICROWAVE

Thermador

Kitchen

Dimensions: 24"w 18.5"d

Thermador

Dimensions: 13"h 31"w 2"d

Dimensions: 14"h 1"w 8"d





REFRIGERATOR Kitchen Thermador

Dimensions: 24"h 16"w 16"d Dimensions: 16"h 24"w 21"d Dimensions: 34"h 24"w 24"d Dimensions: 33"h 24"w 25"d



FLOOR CUSHIONS Seating Area World Market Dimensions: 4"h 24"w 24"d



TELEVISION Kitchen Samsung Dimensions: 15"h 27"w



WASHER/DRYER Kitchen

LG



LIGHT FIXTURE Seating Area Weima Dimensions: 6"h 24"w 24"d



PILLOWS Seating Area Bungalo Rose Dimensions: 18"h 18"w 6"d



RUG Seating Area Company Dimensions: 6'w 4'd



www.thermador.com www.viadurini www.allmodern.com www.bedbathandbeyond.com

SHELVING

Seating Area

store.horizon-lights.com www.worldmarket.com www.crateandbarrel.com



TOOTHBRUSH HOLDER Bathroom Grohe

Dimensions: 5"h 5"w 2"d





HAND TOWEL HANGER Bathroom

Kraus

Dimensions: 2"h 9"w 3"d



TOWEL HANGER Bathroom Grohe

Dimensions: 12"h 18"w 9"d



SINK Bathroom

Durasquare Dimensions: 5"h 18"w 18"d



TOILET Bathroom Duravit

Dimensions: 8"h 15"w 22"d



RAIN SHOWER Bathroom Grohe

Dimensions: 18"w 24"d

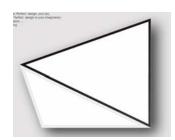


SHOWER CONTROLS Bathroom

Grohe Dimensions: 6"h 18"w



Bathroom Karee



WALL LIGHT Entry Wilma

Dimensions: 4"h 5"w 5"d Dimensions: 16"h 24"w 4"d



PILLOW Bed Area

Wayfair Dimensions: 4"h 26"w 20"d



Ecosa Dimensions: 6"h 6'w 4'd

BATHROOM, BED, AND **ENTRY FF&E**

www.duravit.com www.allmodern.com

FAUCET

Bathroom

Dimensions: 5"h 1"w 4"d

Italia

icon2.com www.ecosa.com **MATTRESS**

Bed Area



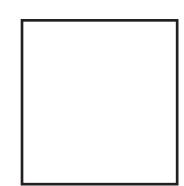
Material: Laminate

Color: White

Uses:

- Kitchen Cabinets

- Closet Doors



Material: Wood

Color: White

Uses: Floating Shelves



Material: Paint

Material: Paint

Color: Light Grey

Color: Dark Grey

Uses:

- Main Walls

Uses:

- Bathroom Walls



Material: Wood

Color: Dark Brown

Uses:

- Display Shelf

- Elevated Floorplate

- Bathroom Shelves

- Countertops



Color: Light Tan/Grey

Material: Wood

Uses:

- Floor



Material: Bamboo

Color: Dark Brown

Uses: Bamboo Screen



Material: Stone

Color: Black, Grey, and

Brown

Uses:

- Shower Walls



Material: Stone

Color: Grey

Uses:

- Shower Floor



www.image.google.com

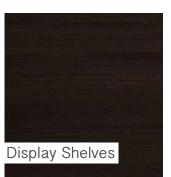


Wall Color

Shelves

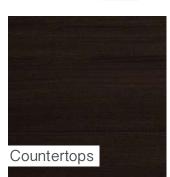
KITCHEN AND ENTRY PERSPECTIVE







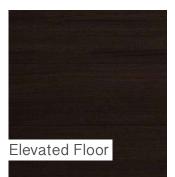














Closet Doors

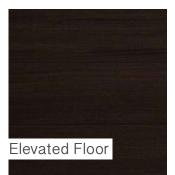


Wall Color

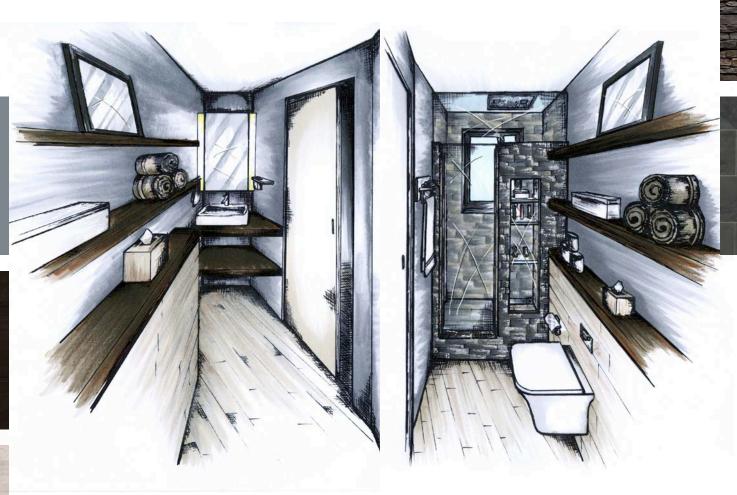
Shelves





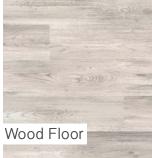






Wall Color





BATHROOM PERSPECTIVE (SHOWER)

BATHROOM PERSPECTIVE (SHOWER)

Shower Wall

Shower Floor

