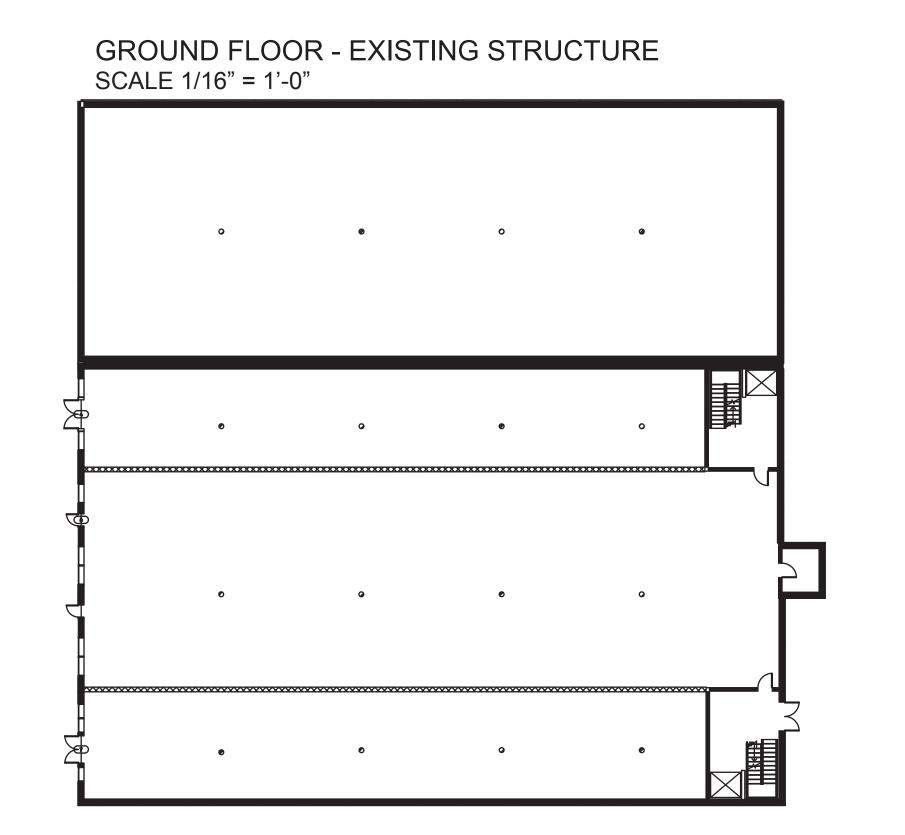


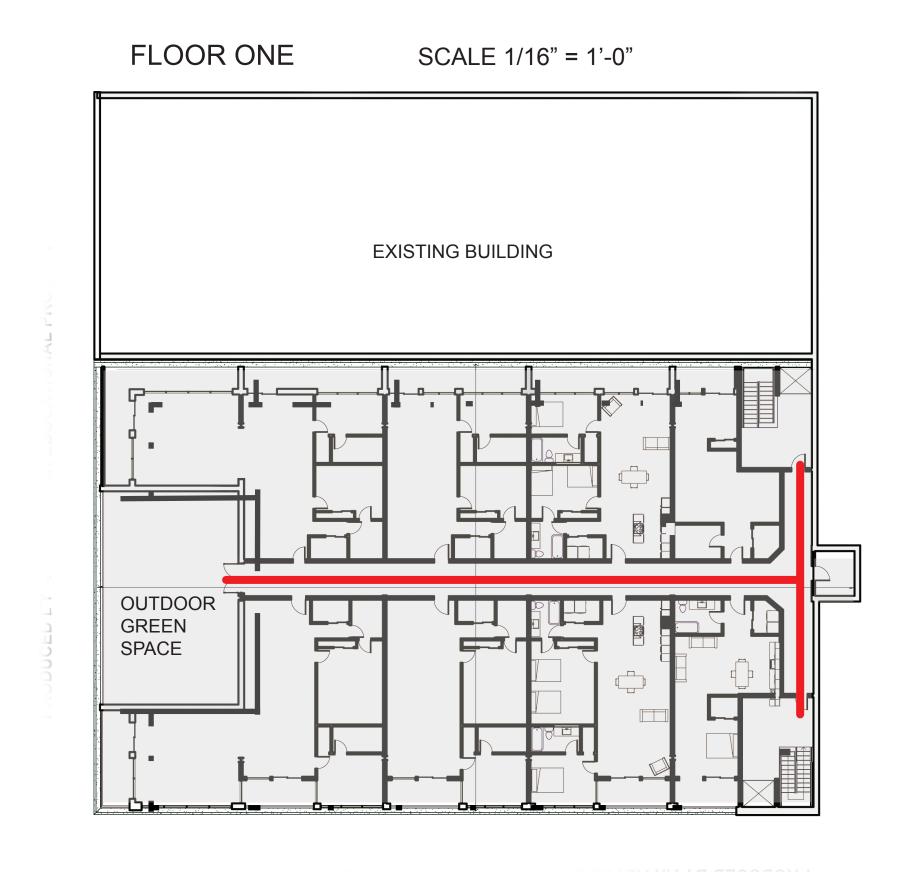
PROJECT REVIVE

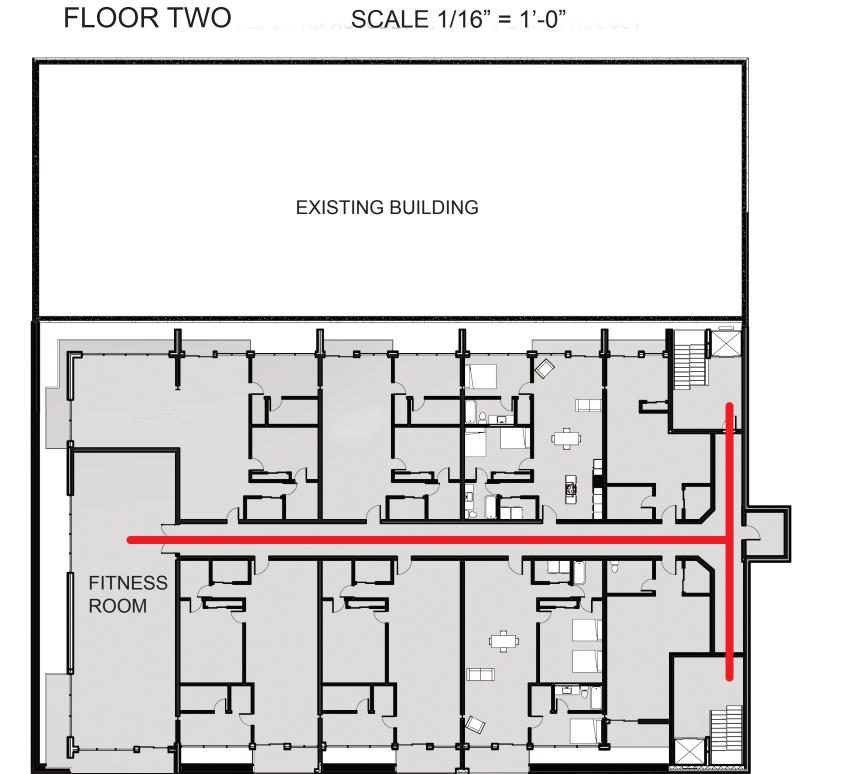
REVITALIZING SMALL DOWNTOWN FOR BIG TOWN FEEL

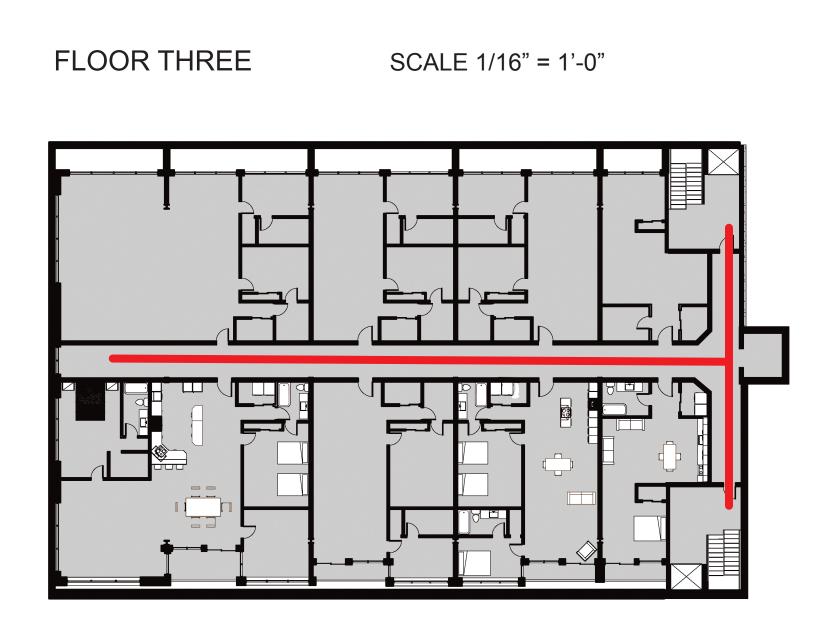


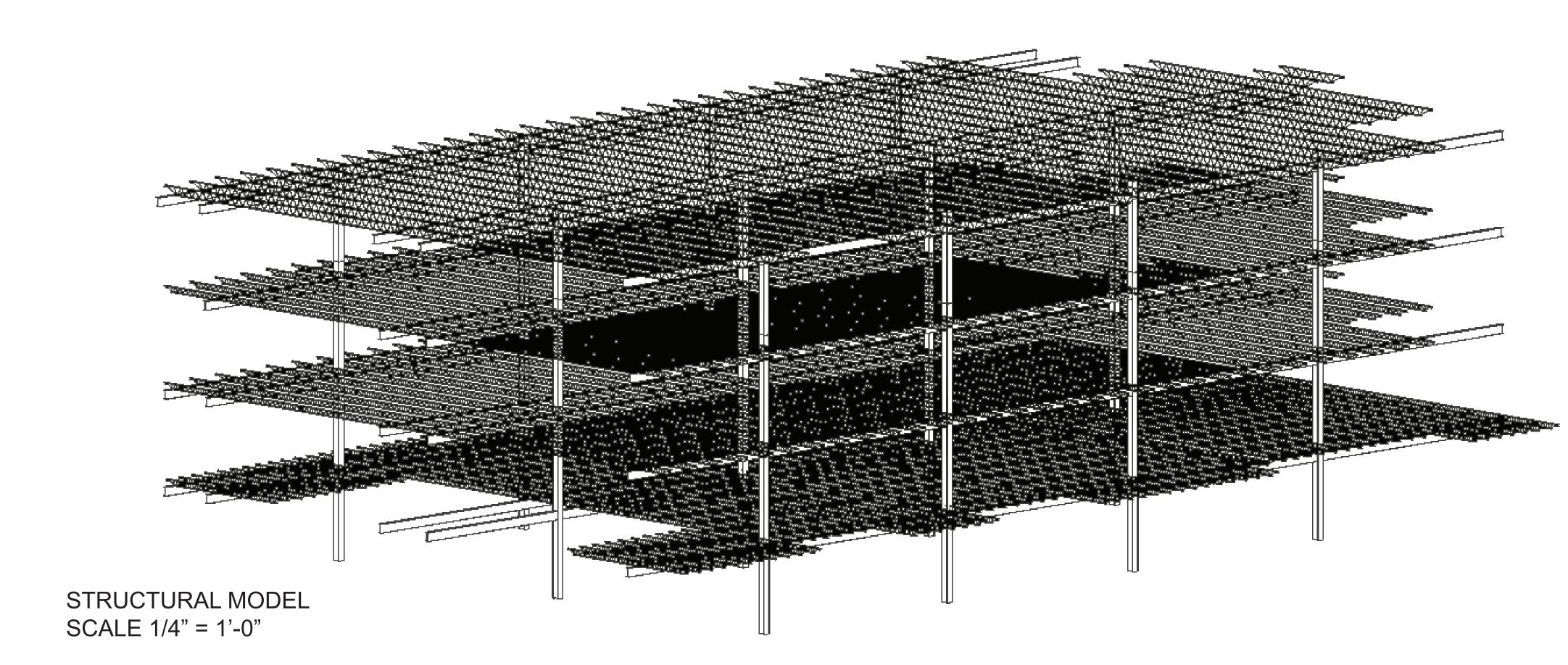


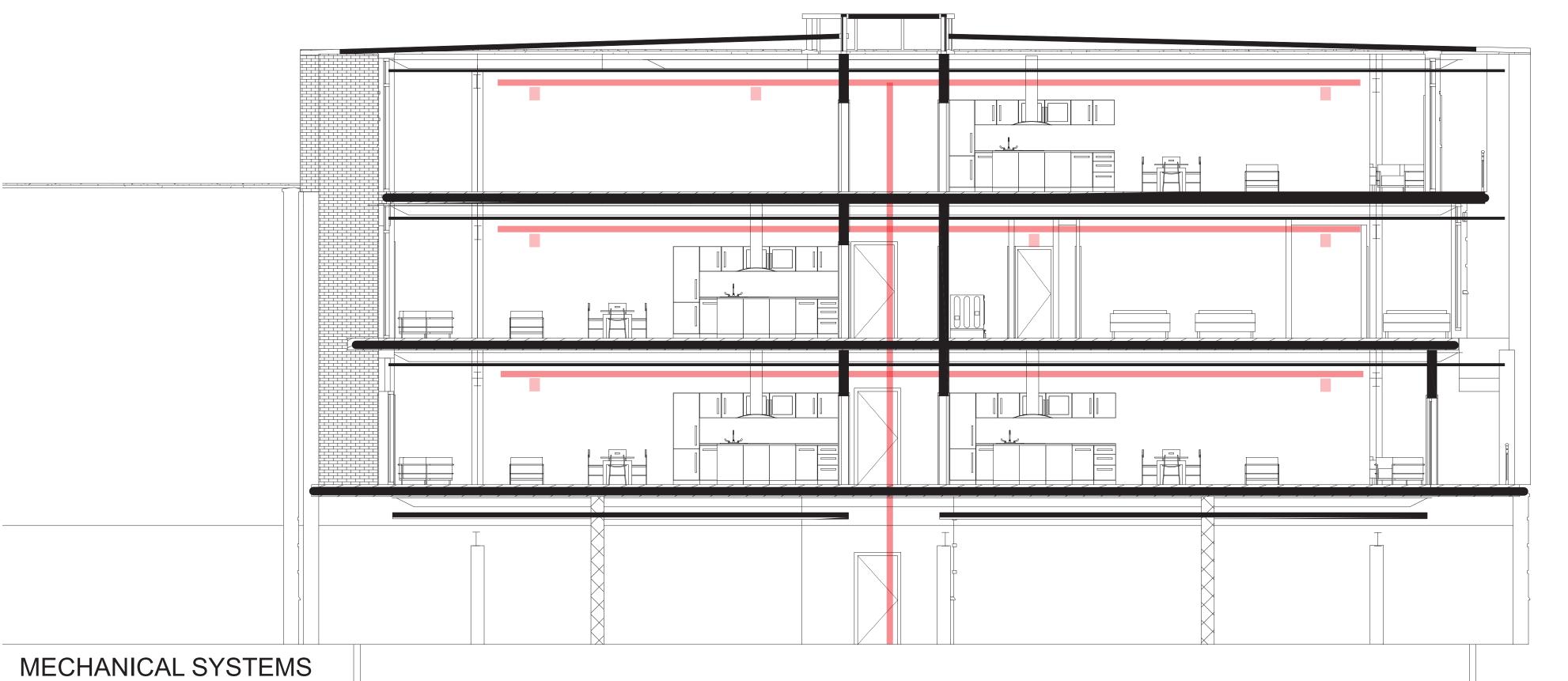


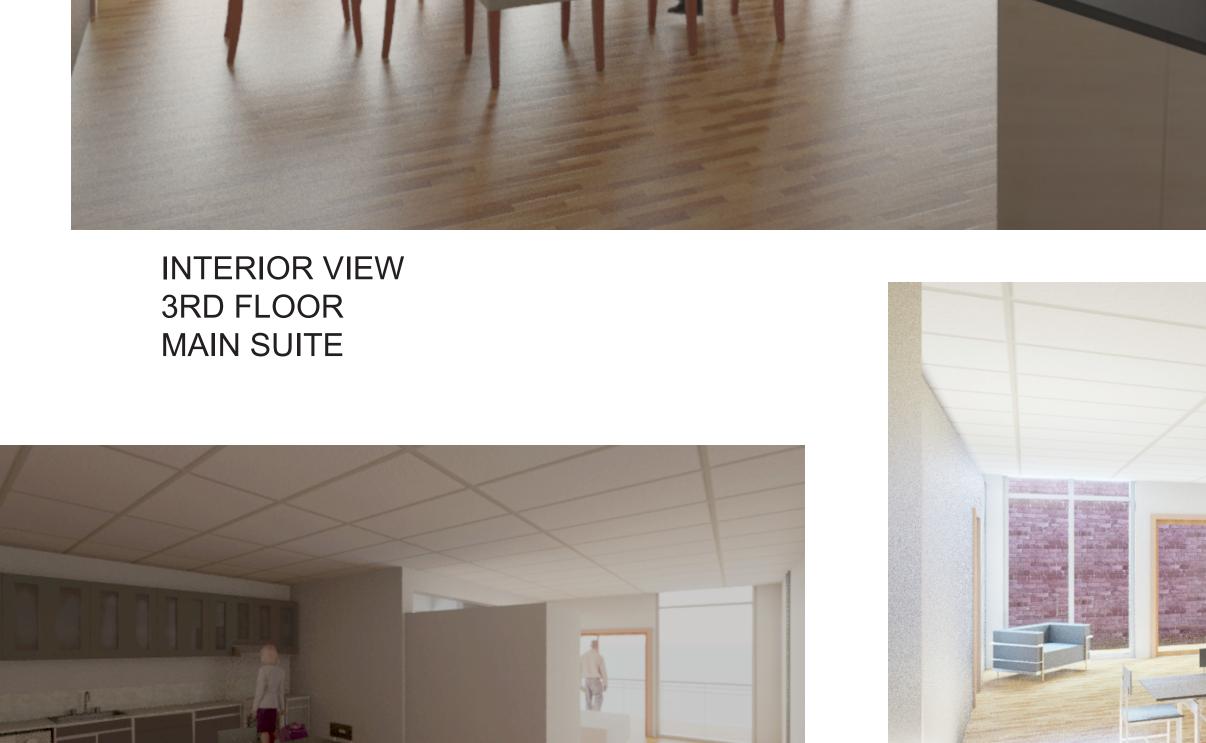


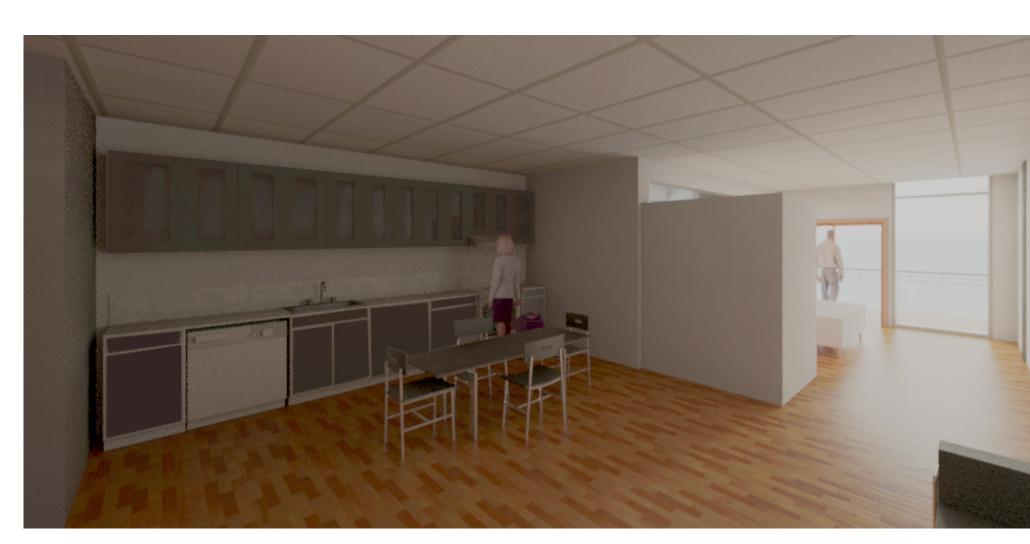












INTERIOR VIEW IST FLOOR STUDIO ROOM



INTERIOR VIEW 2ND FLOOR NORTH VIEW-





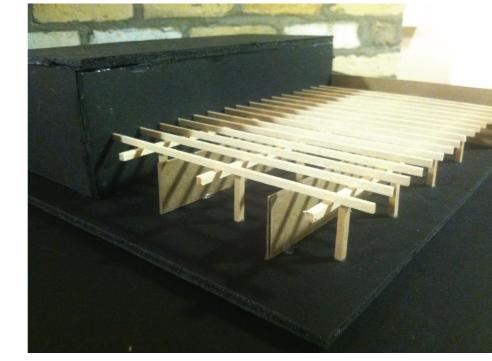


MODEL

SCALE 1/4" = 1'-0"

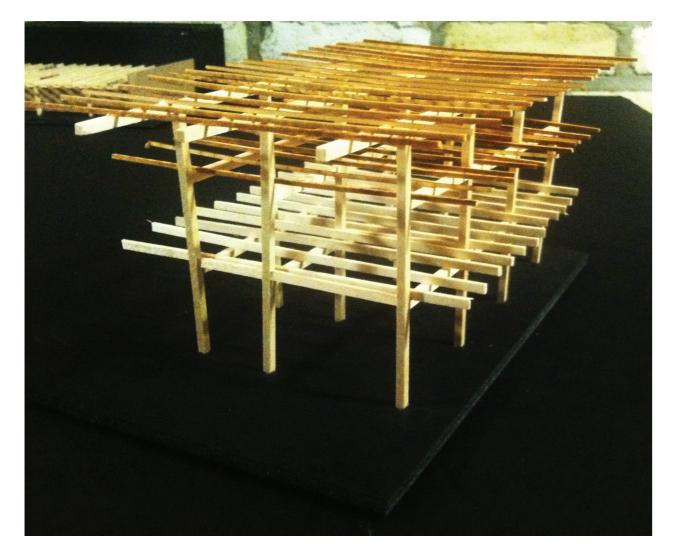
PROJECT REVIVE PHYSICAL MODELS





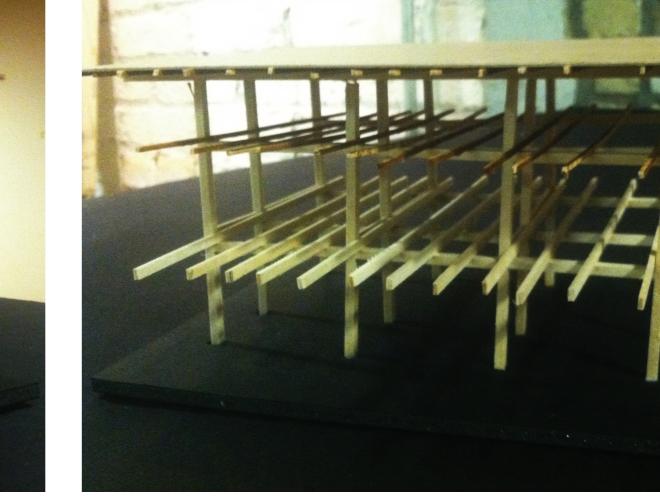


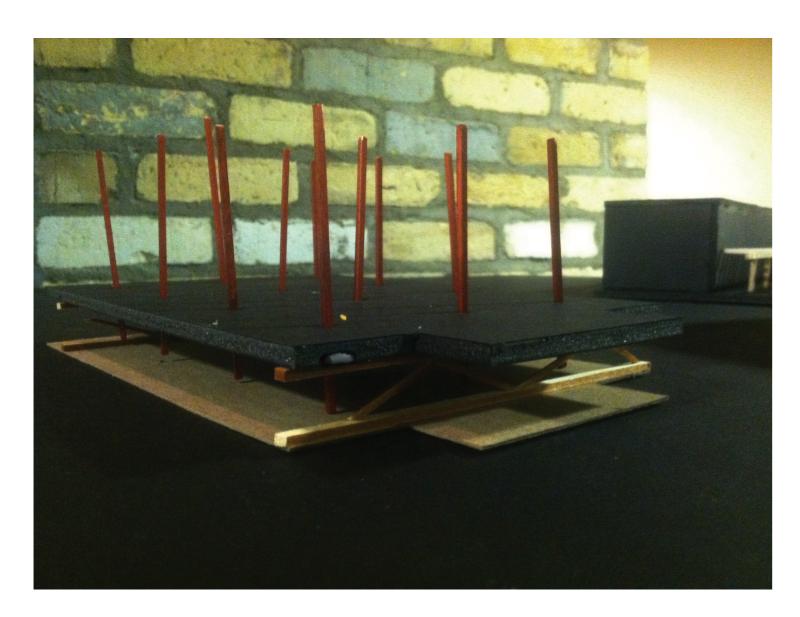
STRUCTURAL MODEL OF EXISTING BUILDING



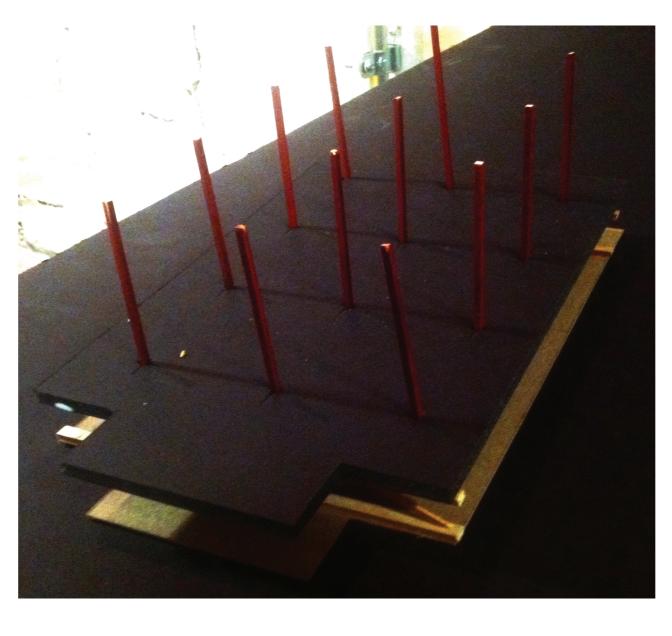




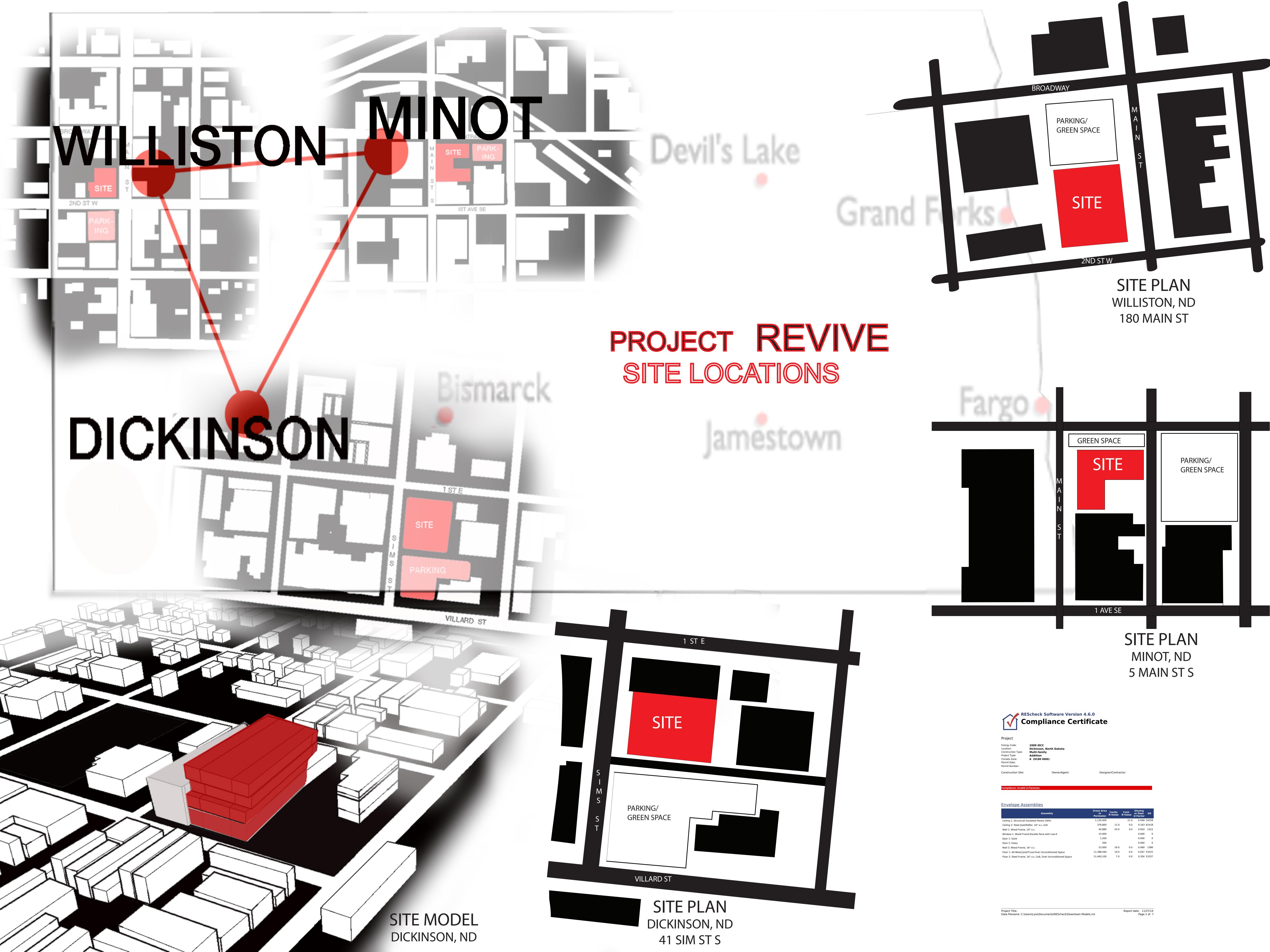












ARCH 771 - FALL 2014

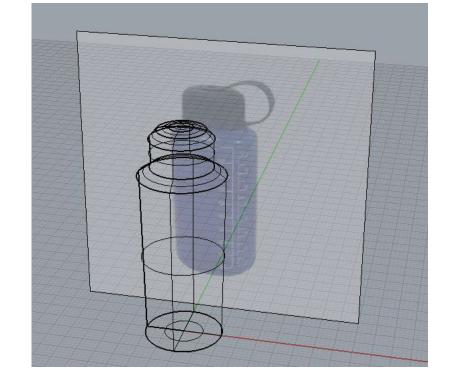
ASSIGNMENT ONE & TWO

ASSIGNMENT ONE - SOFTWARE

The Basics of Rhino - "digital toolbox" tutorials

"Modeling a Waterbottle" rhino3d.com Tutorial

- Lessons Learned:
- Picture Frame command -Imports image to copy over
- Create 3D image
- Helpful if making irregular models from an image



"Shipping Container" Mikes Tutorial

- Lessons Learned: - Use of layers
- Quick commands
- Basics commands for: "Move", "Copy", "Mirror", "Extrude", "Offset"...
- Simple construction for: Walls, floor, doors, wall panels, posts, columns...
- Helpful for learning how to build architectural bldgs

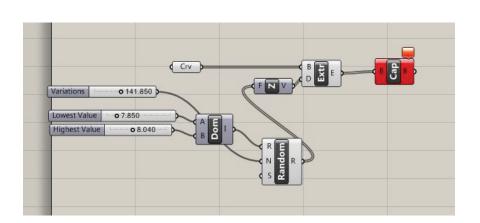


Intro into Grasshopper - "digitaltoolbox"

"Circle and Extrude"

Lessons Learned:

- Commands:
 - "Curve", "Number Slider", "Extrude", "Z Cord.",
 - "Random Range",
 - "Domain"
- Extremely helpful for many



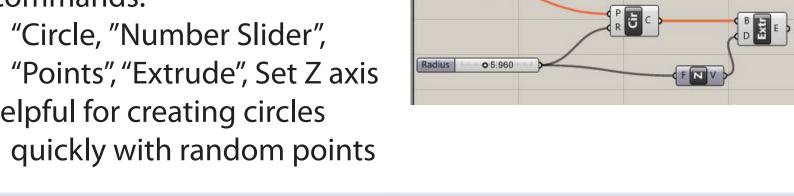
"Interface"

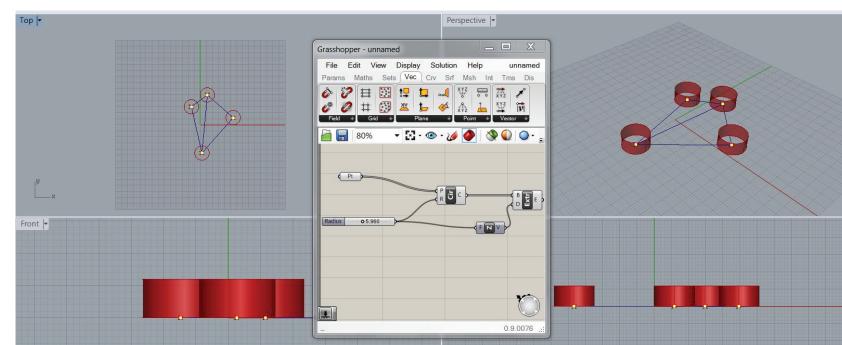
- Lessons Learned:
- Very basics for beginning
- Good intro
- Opening more than one document at same time
- Overview of various buttons
- View and pan grasshopper window

"Circle and Extrude"

Lessons Learned:

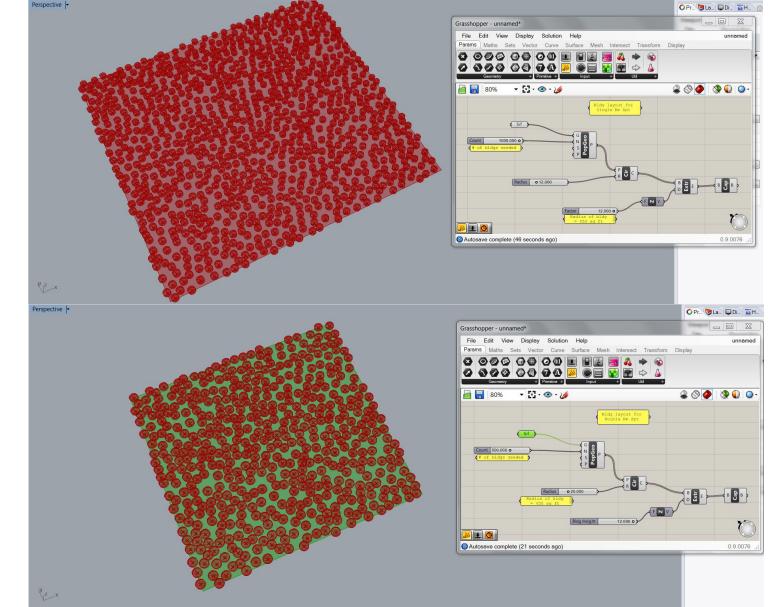
- Commands:
- "Circle, "Number Slider",
- Helpful for creating circles quickly with random points

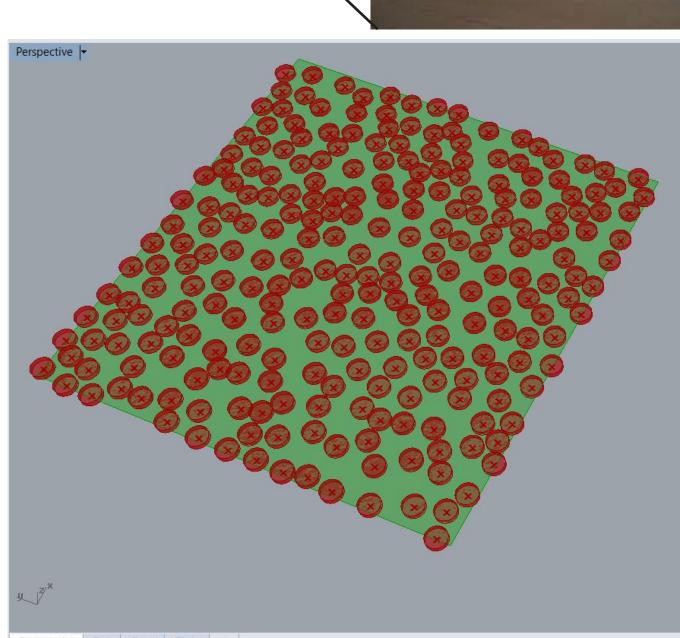


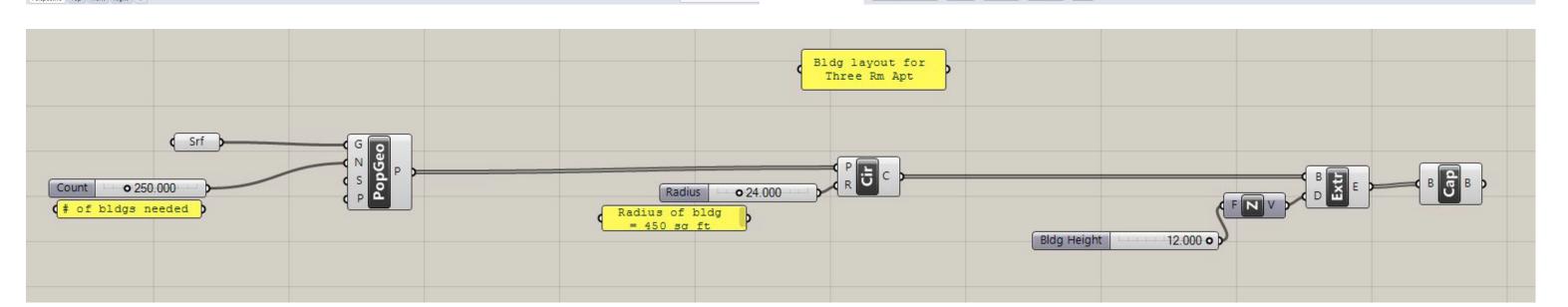


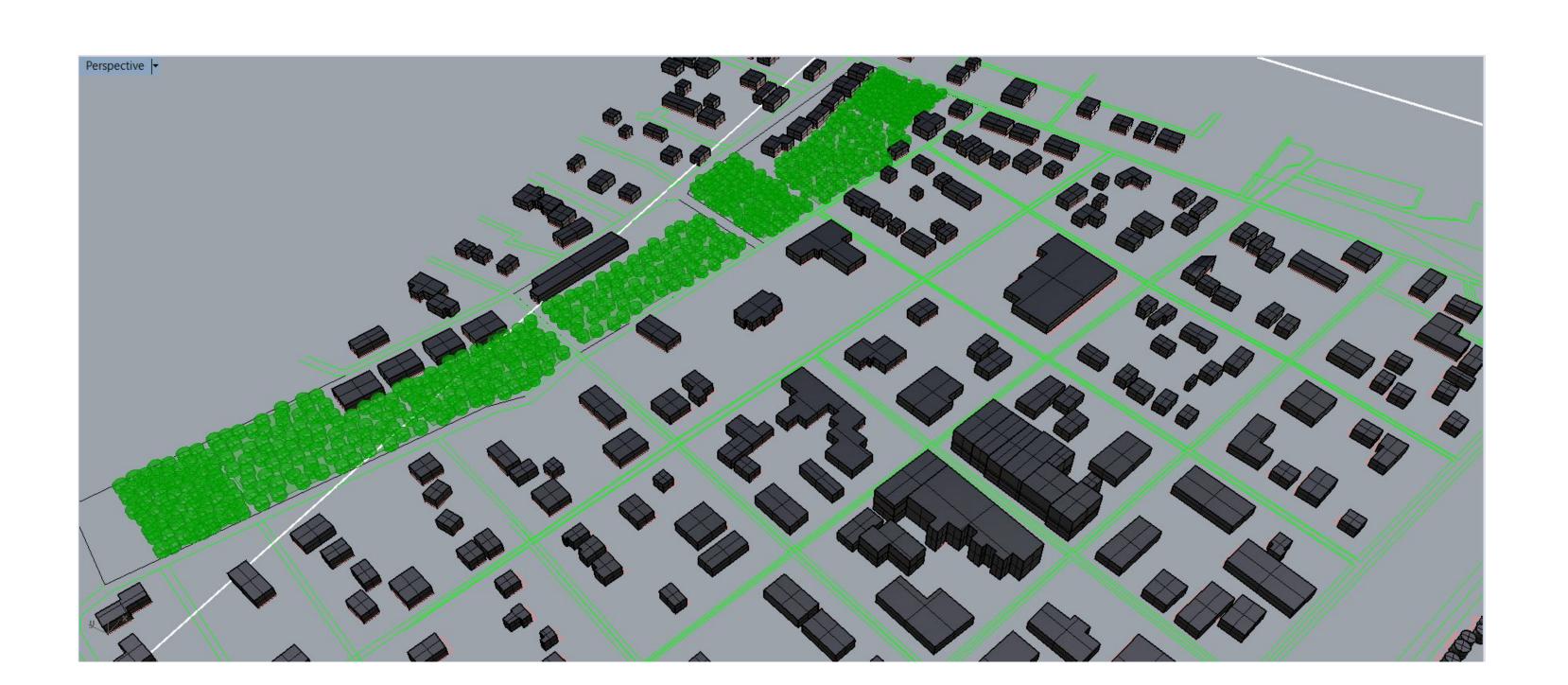
ASSIGNMENT TWO - STUDY OF CROSBY

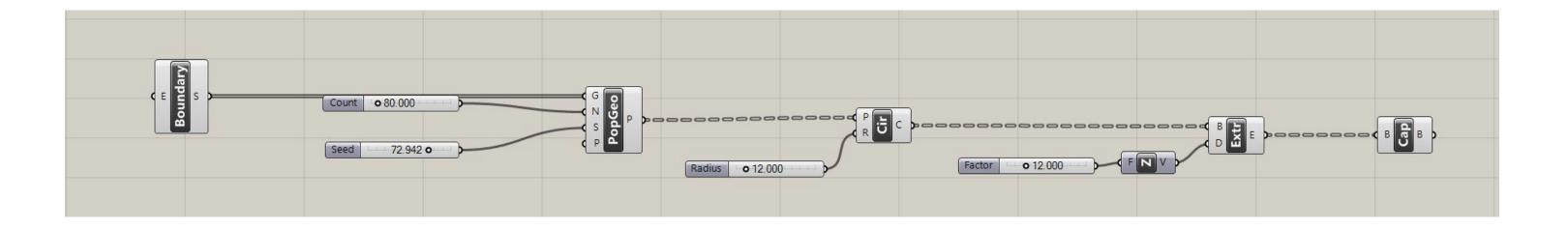










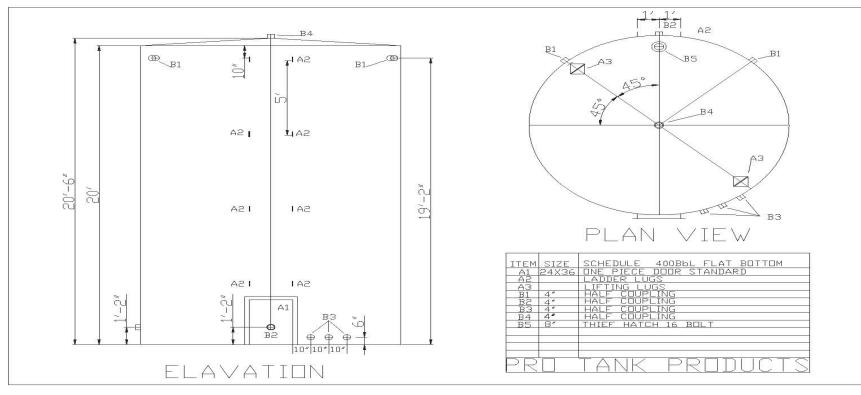


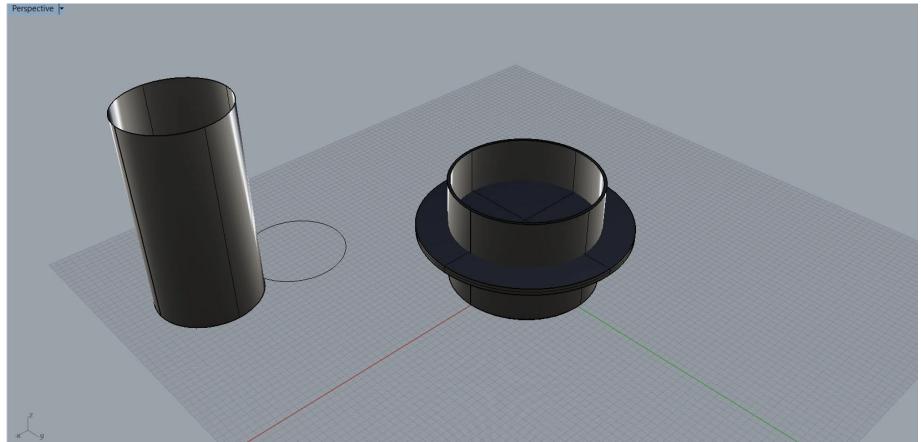
ARCH 771 - FALL 2014

ASSIGNMENT THREE - PRE-SWITCH

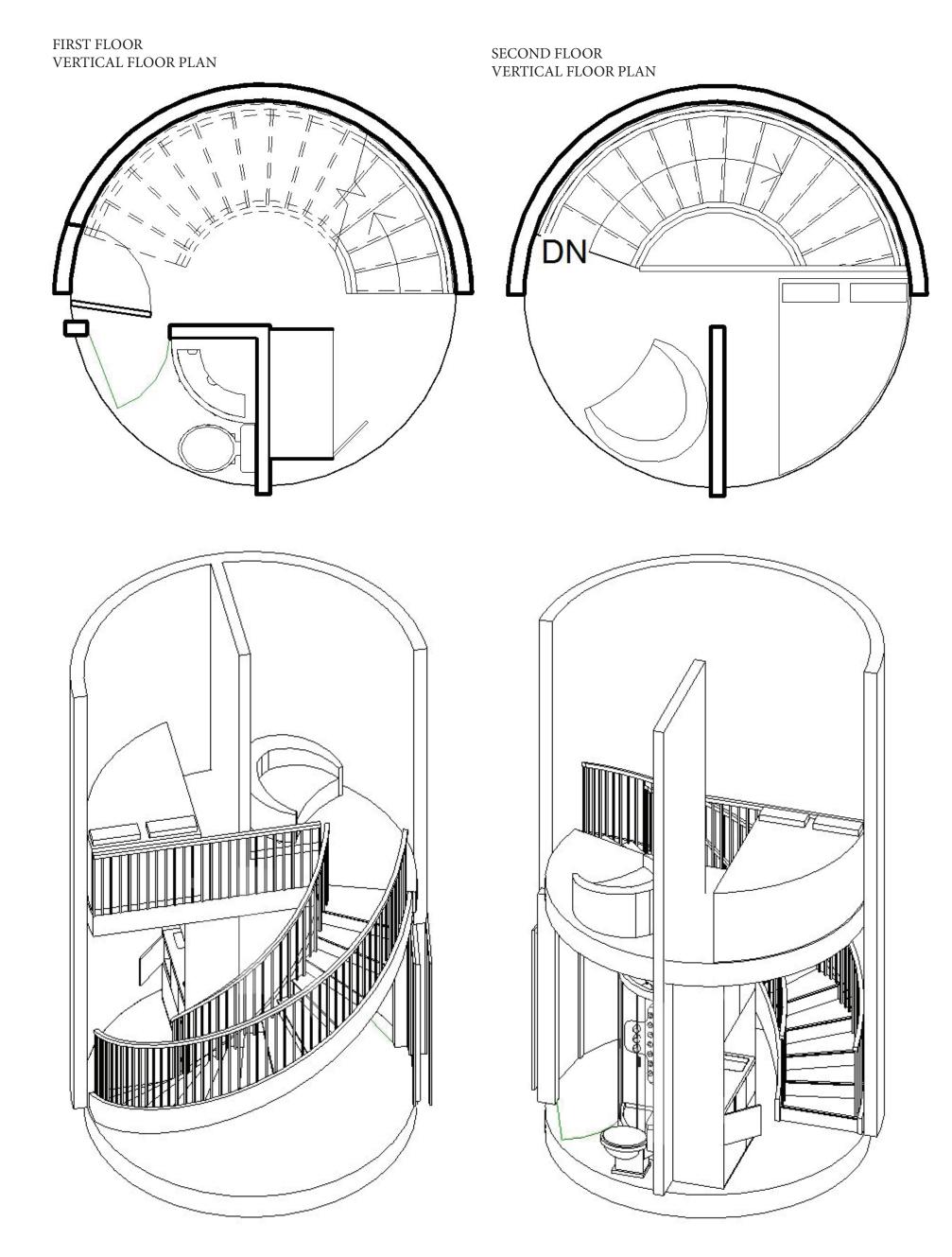
First Steps to Housing Proposal:

- A. Decide form shape of housing units in order to know how many units needed
- 1. Using recycled oil drums from oilfields for housing units
- B. Questions and issues needed to address for oil drum housing proposaal
 - 1. Sturdiness of the structure 2. Cost to clean out oil drum
- 3. Will it be enough space for housing for individual or family residencies
- C. Address questions through research
 - 1. Oil drum is customizable in manufacturing
 - Laying the drum down horizontally provides strength in support for
 - Can use angle iron for bracing of structure
 - PTP Protank Minot, ND Oil Tank Manufacturer
 - \$10,000 initial design cost, initial dimension of 20' H X 12'W
 - 2. NewKota Services
 - \$ 3,500 initial cost for cleanup of oil drum
 - 3. Using "Tiny Houses" as an inspiration, next step in process is to put a floor plan layout using the dimensions of typical oil drum used in western ND on oilfields

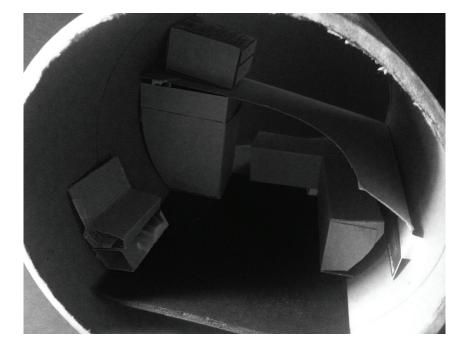




Next step in the design process for the "Oil Container Housing" is to put the housin idea into practice and see what type of layouts are possible and find examples of any structures that have used a similiar idea. The following two designs are possible floor plan layouts for the container to stand either vertically or horizontally.

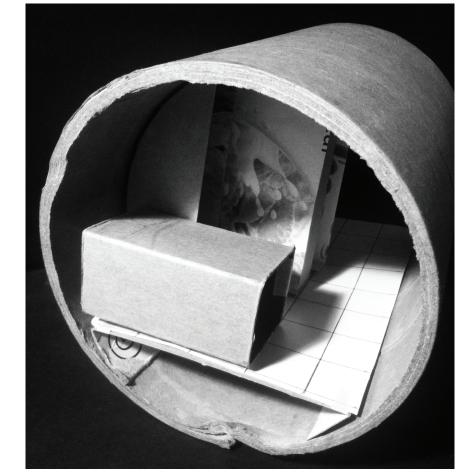


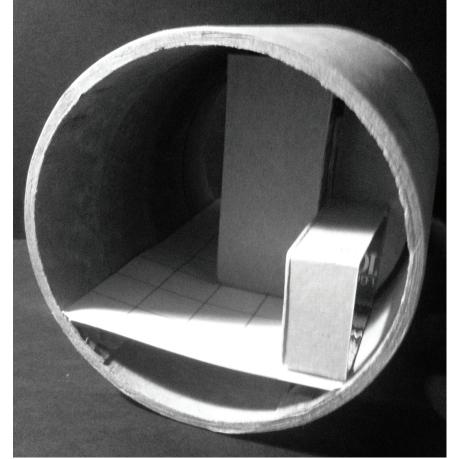
Physical Modeling





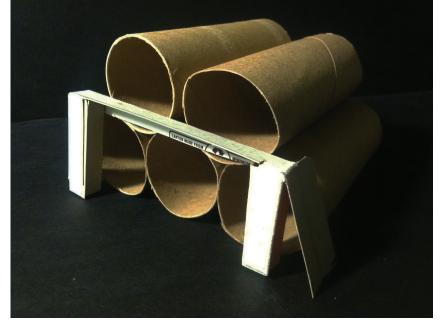
Scale 1:4 Unit one Height 18', Length 24'





Height 18', Length 24' Scale 1:4 Unit two

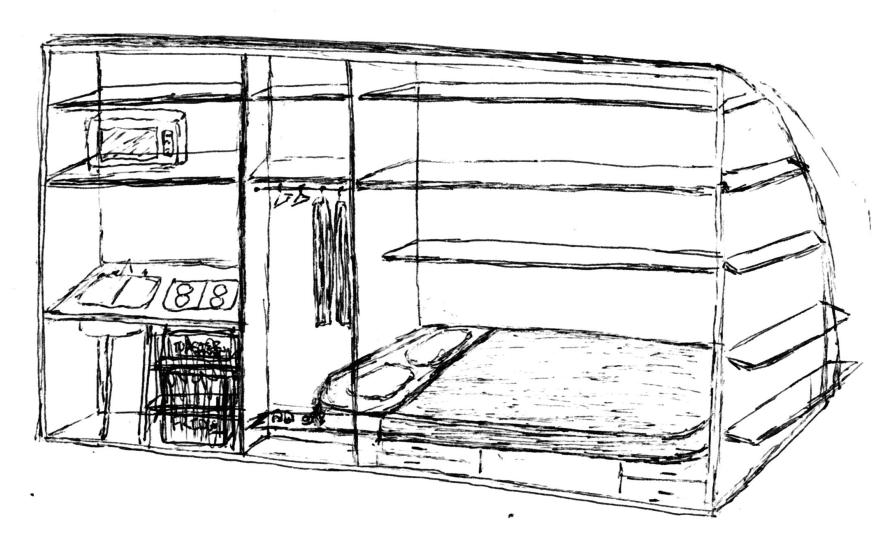




Meshing for stacked containers to Stacked containers with bridgeway to top containers

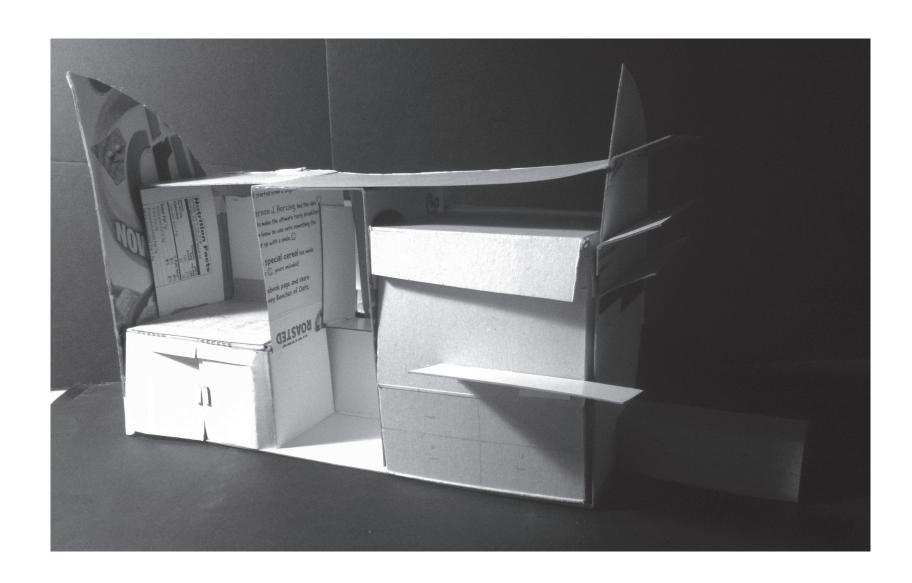
Compactable Unit

hold containers together

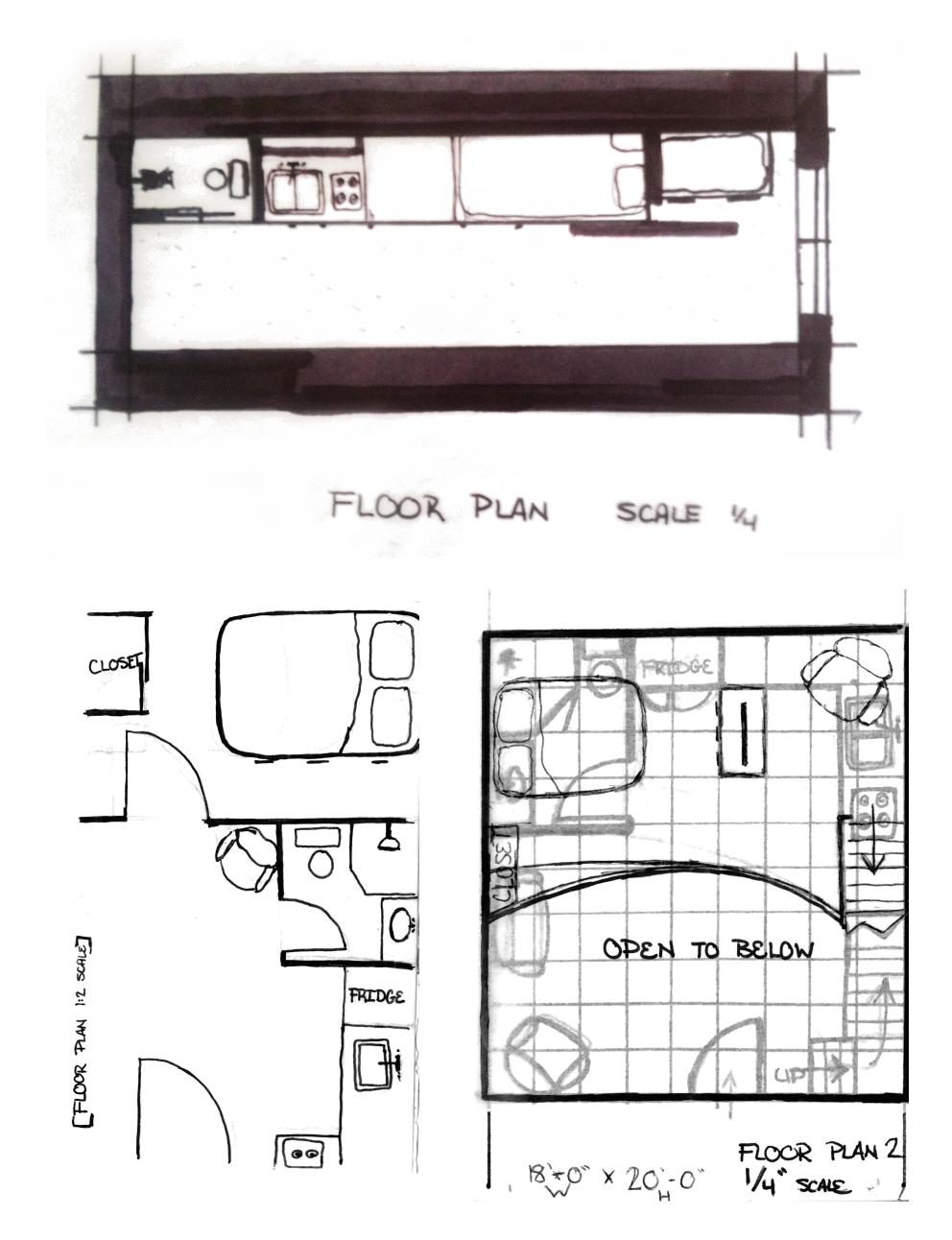


The concept behind the compactable unit is to house everything each individual unit needs without needing to furniture any of the unit themselves. Each compactable unit would include:

- Kitchen unit: sink, stove, microwave, fridge
- Closet
- Foldable bed
- Bench for sitting or extra sleeping
- Shelving and drawers for storage



Floor Plans



Sections



City Street Grids & Open Spaces

