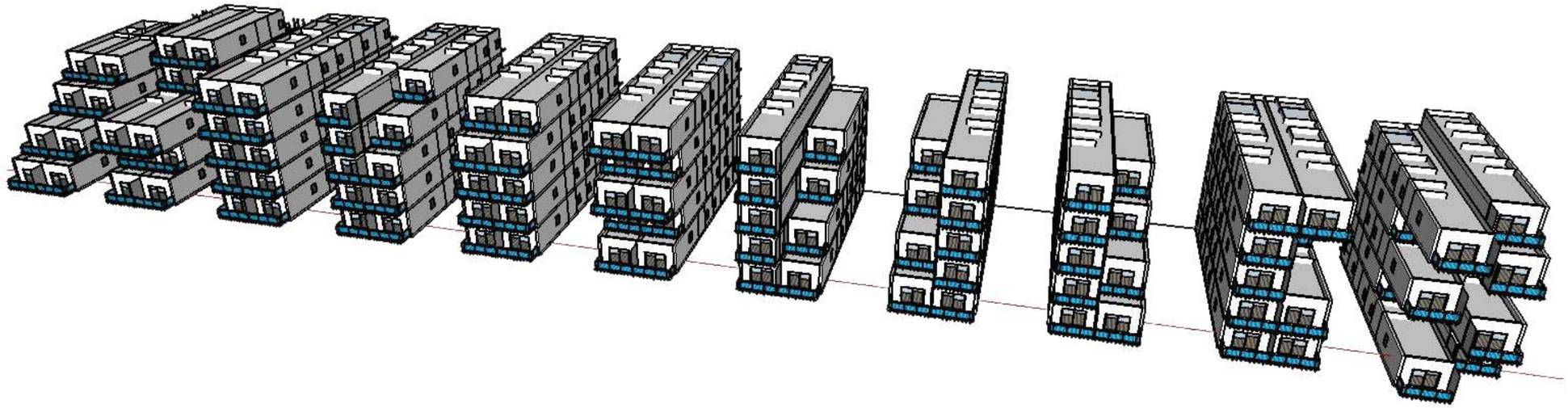
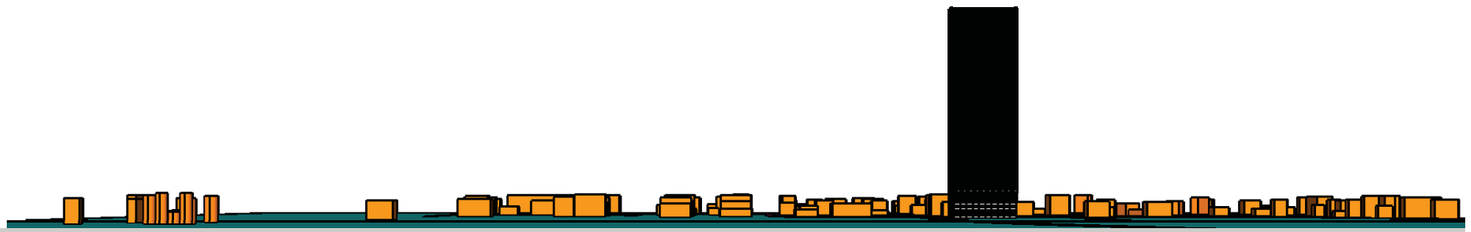
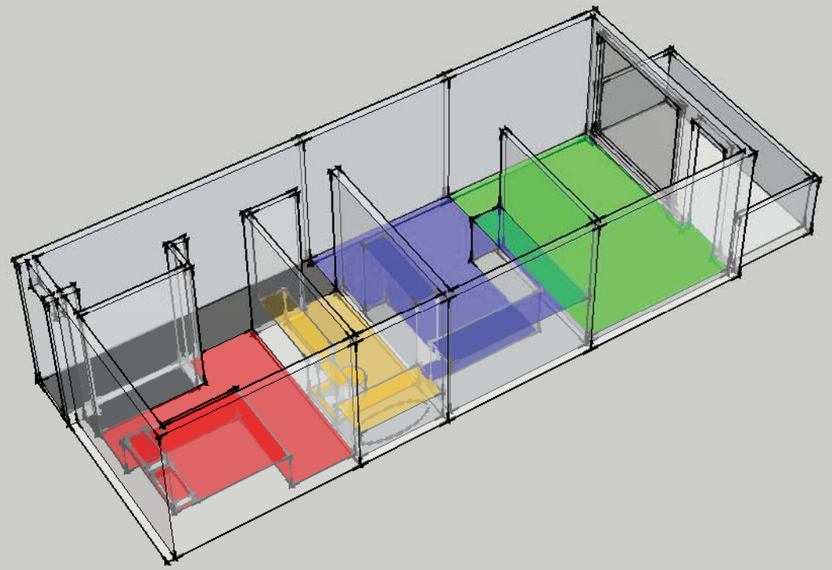
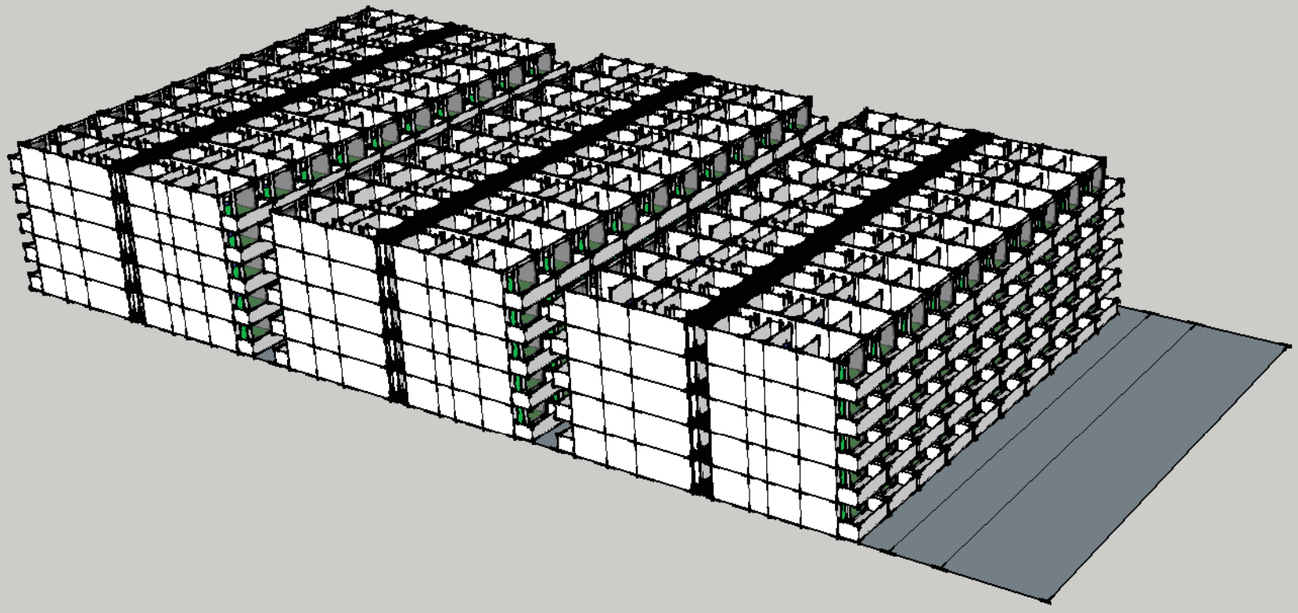
INHERITANCE



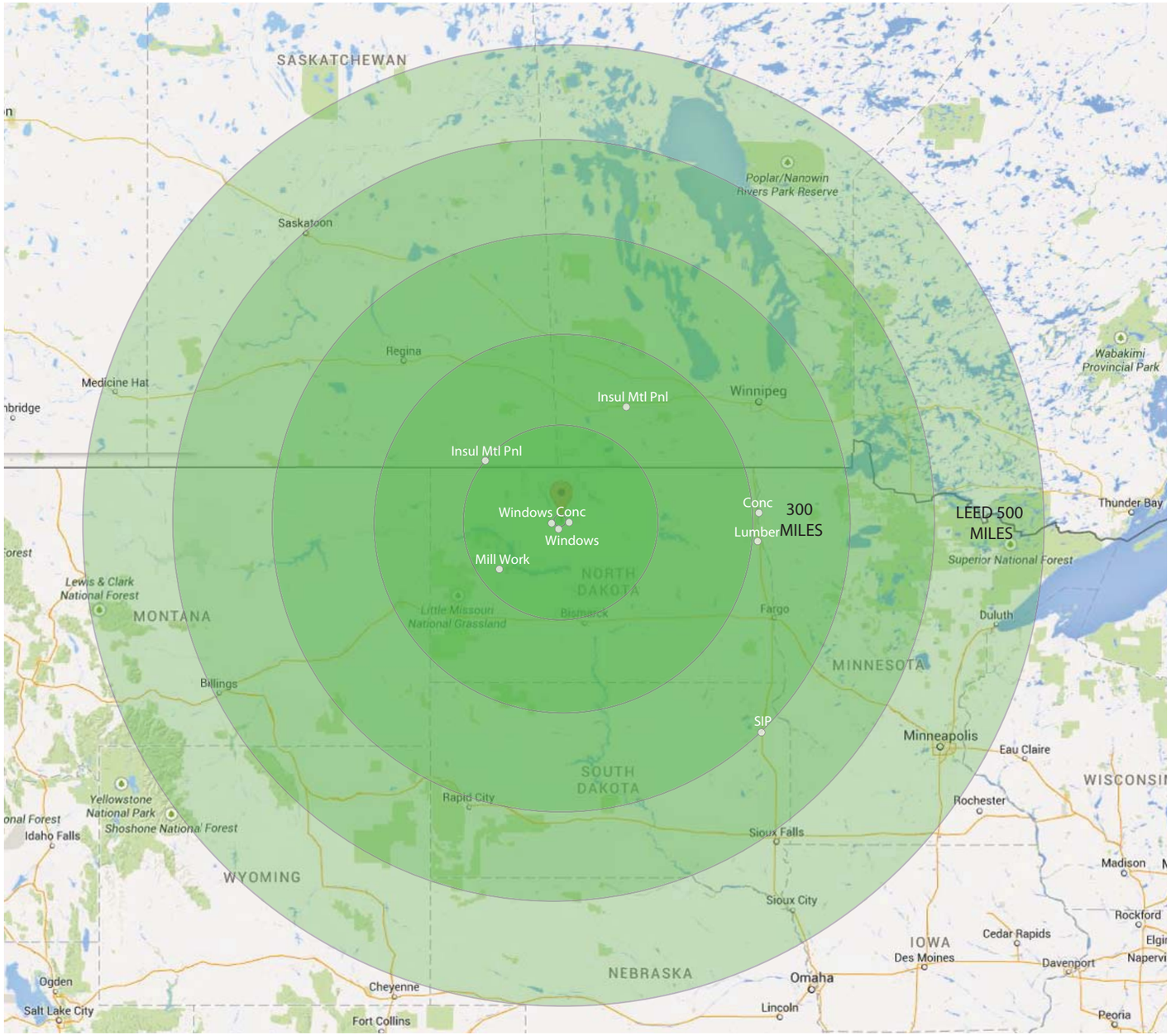


The Unit





Material Distance



Fire Rating

Fire Rating

Magnet Sensor

Structural Insulated Panels

Typ fire rating. 1/2 hour to hour ratings

Exterior materials
wood, plastic, metal, cement-board siding, masonry stone brick and or veneer.

Rescheck Results

Energy Code: 2009 IECC
Location: Minot, North Dakota
Construction Type: Multi-family
Project Type: New Construction
Conditioned Floor Area: 13,640 ft2
Glazing Area 8%
Climate Zone: 7 (9193 HDD)

Compliance: Passes using UA trade-off
18.7% Better Than Code
Maximum UA: 1335 Your UA: 1085

http://www.fireengineering.com/articles/2010/12/havel-sips.html

Site	Area SF	Cost
1	101671	$915,039.00
2	52420	$471,780.00
3	56830	$511,470.00
4	130169	$1,171,521.00
Total		$3,069,810.00

Area Costs Costs Per Square foot 220

Units	#	Area per unit	Total Unit Area	Cost
4	168	1276	214368	$47,160,960.00
3	52	1116	58032	$12,767,040.00
2	87	841	73167	$16,096,740.00
1	63	667	42021	$9,244,620.00
Total Cost				*$85,269,360.00*

Land Cost Estimate

Land Acquisition - $3,069,810.00
Project Cost Per Square Foot - $9
Premium for Parking Site
Construction Contingency Fee 5% - $4,263,468.00
Design Fee 10% - $8,953,282
Cost Fee - 101,555,920
Financing Bank 6% - $6,093,335

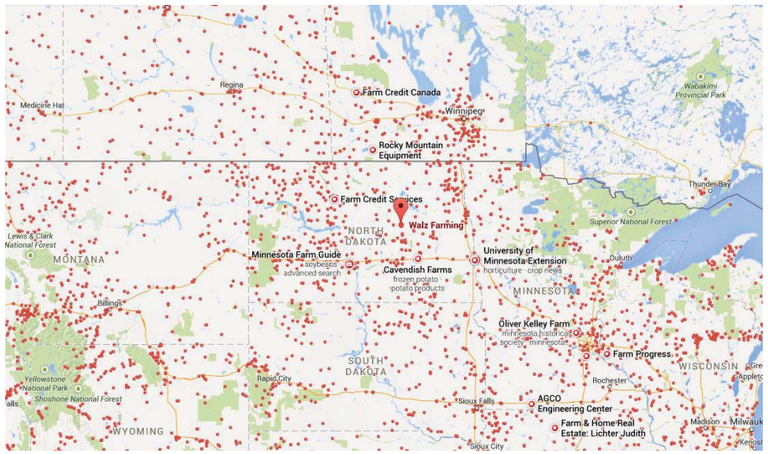
Recycled Materials

1. Fiber Cement Siding

2. Wood from barns and rapid renewable source
From the source below I counted approximately 150 cities then counted the first 10 towns. Those towns had 13 deserted house or barns. I then calculated approximately 200 usable bars or deserted homes only in ND. SD,MN,MT,WY and Canada would still fall within the 300 limit.

3. Carpets from post consumer Shaw

4. Blacks farm wood- Flooring



Building Cost

Type 3 - $220.00 Per Square Foot

The exterior of a building constructed of SIPs can be finished like any wood-frame building: combustible (wood or plastic) or noncombustible (metal or cement-board) siding, masonry (stone or brick) veneer, or other materials.

http://www.ghostsofnorthdakota.com/category/badlands/
http://www2.iccsafe.org/states/newjersey/NJ_Building/PDFs/NJ_Bldg_Chapter6.pdf


LEFT TURN
YIELD
ON GREEN

Units Available

In additon to the conformity of the unit no overall shape of the buildings will be the same. Materials will vary creating a uniquie neighborhood down town Minot.

Site 1-2

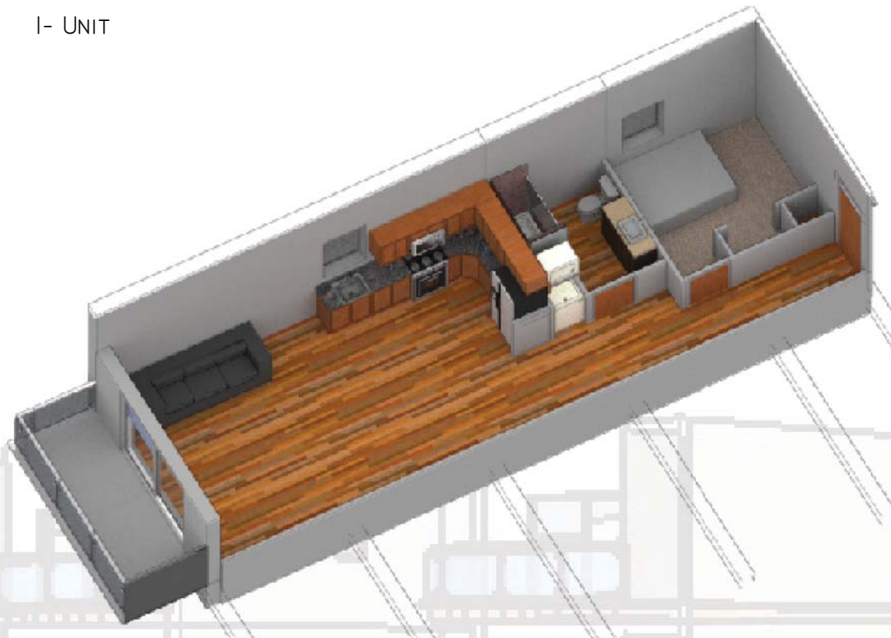
Units	#	People
4	102	408
3	33	99
2	24	48
1	21	21
Total	180	576

Site 3-4

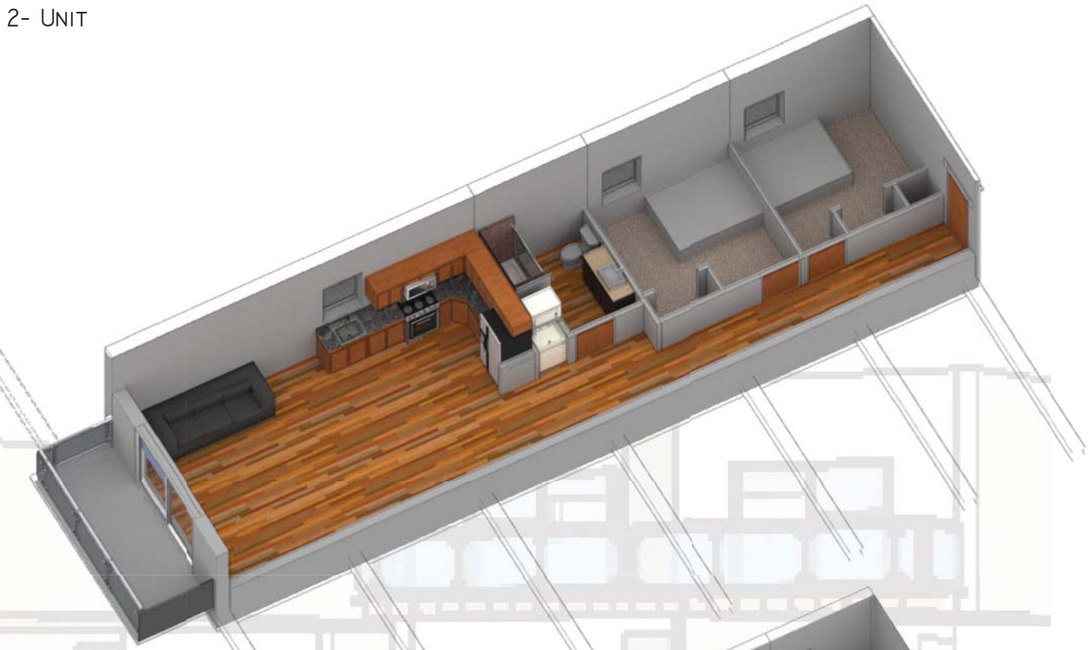
Units	#	People
4	66	264
3	19	57
2	63	126
1	42	42
Total	190	489

Overall total 1065

1- Unit

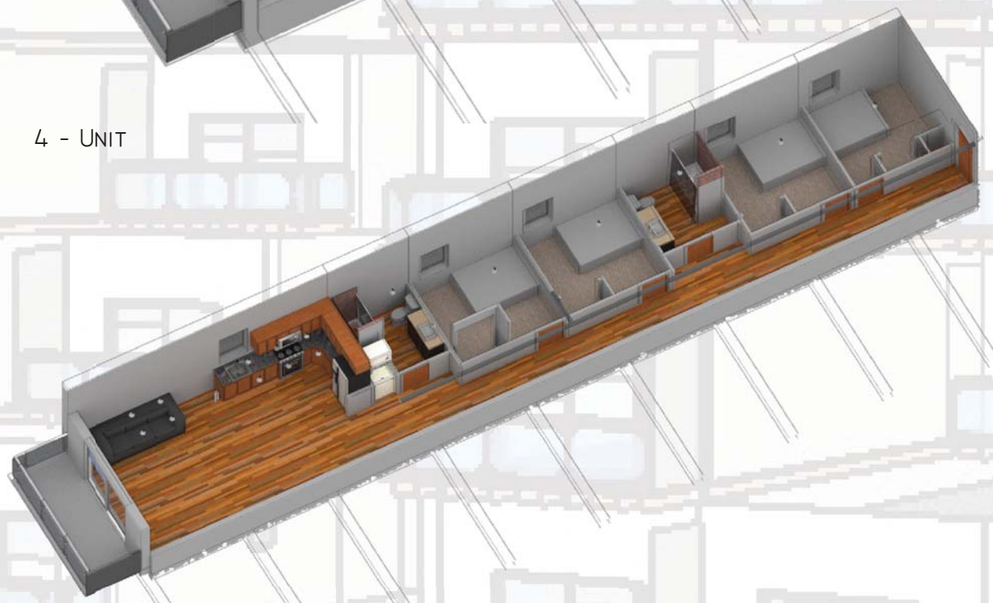


2- Unit



3- Unit

4 - Unit



Esau Rodriguez

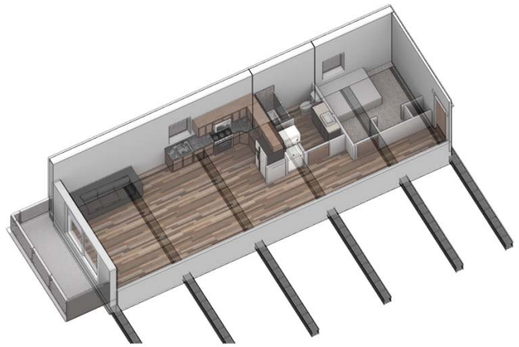
Structure

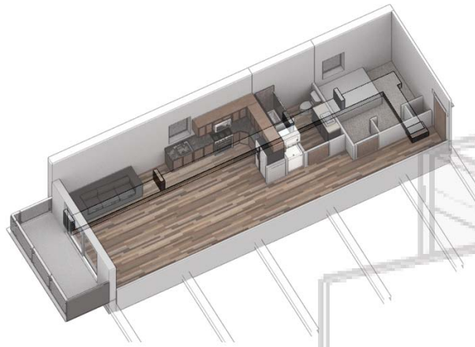
Mechanical

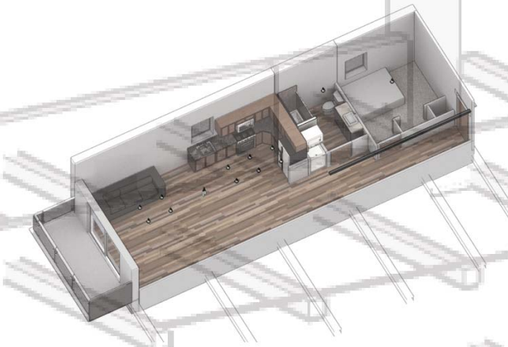
Lighting

Systems

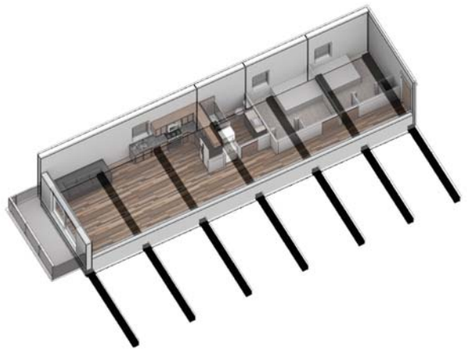
1-Unit

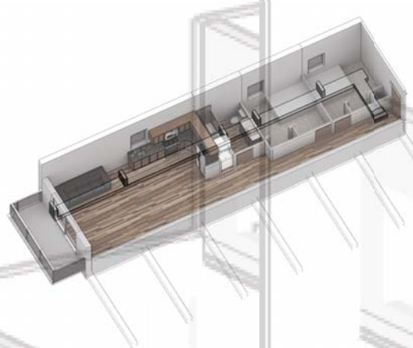


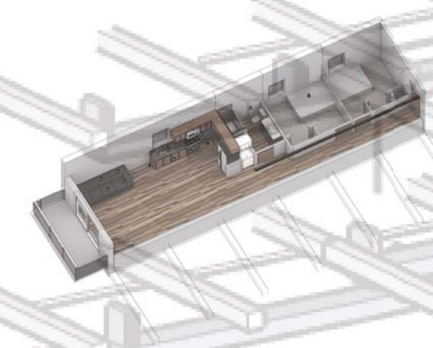




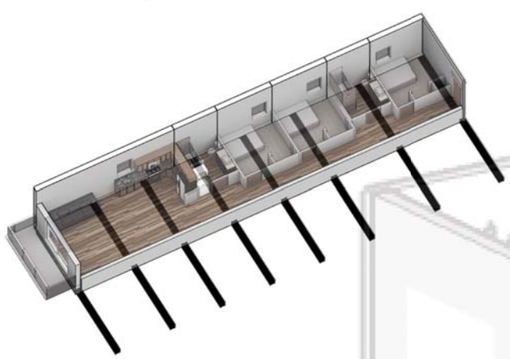
2-Unit

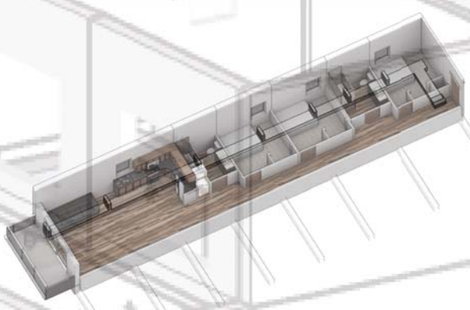


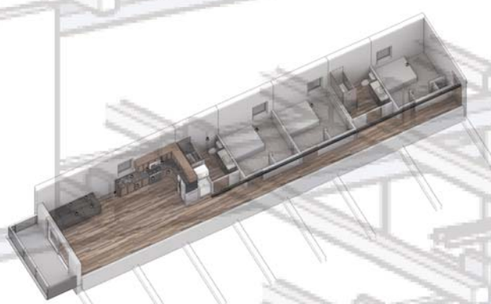




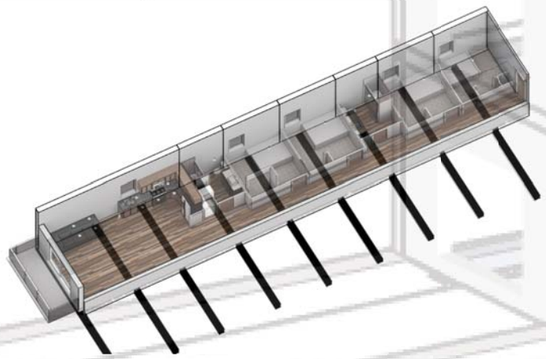
3-Unit

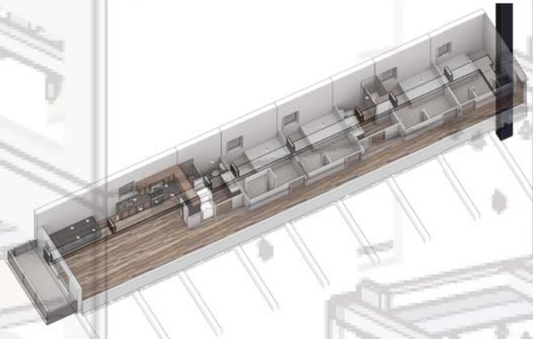


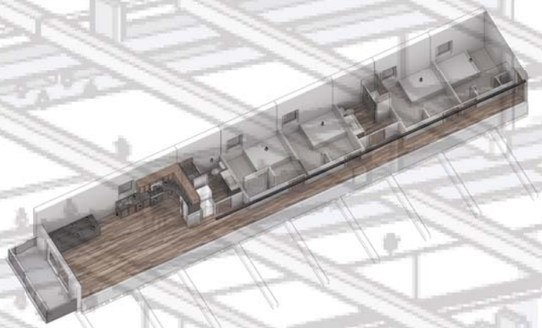




4-Unit

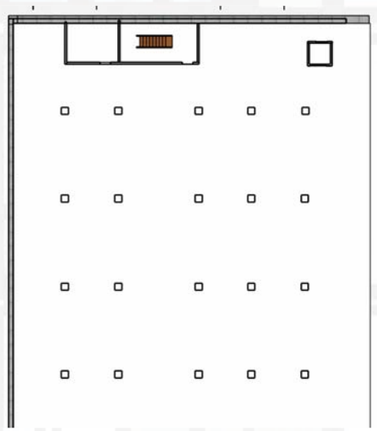






Typical Floor Plans Units Vary

Basement - Parking



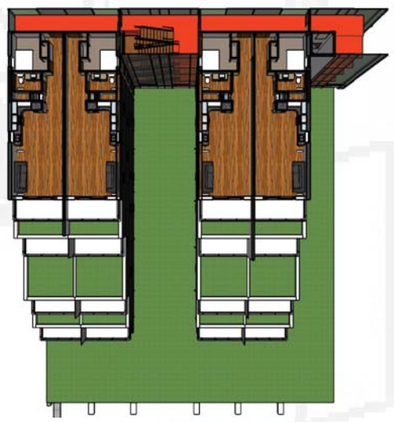
1st Floor

2nd Floor

3rd Floor

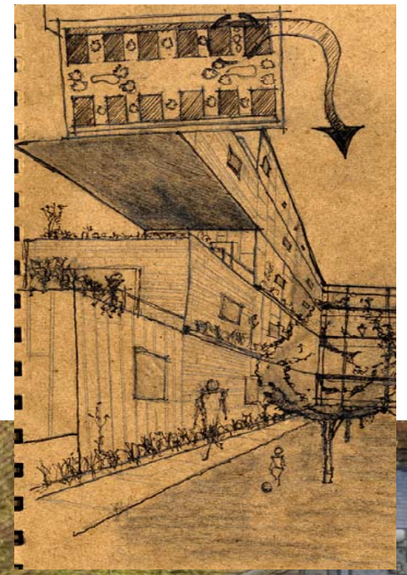
4th Floor

5th Floor



Roof Top Garden

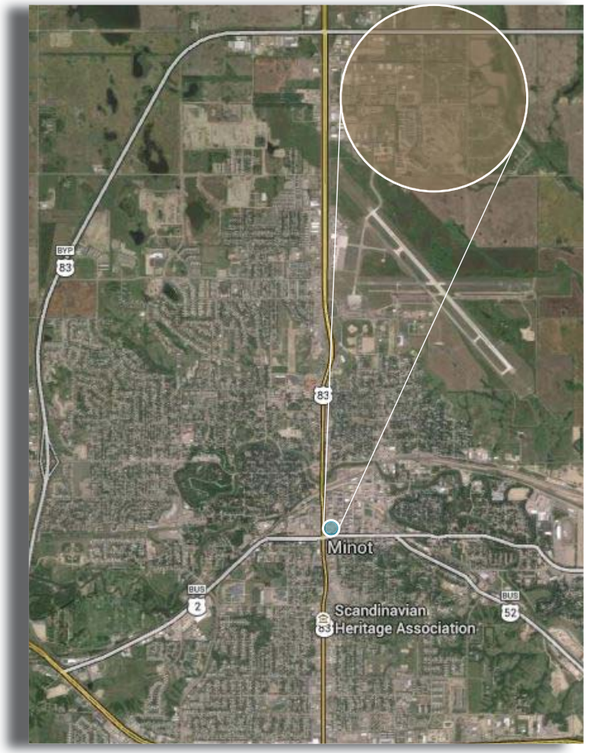
Variety of Design Forms



The Aftermath

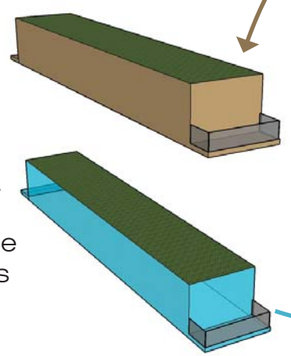
Reducing Urban Sprawl

Concentrate area affecting less land
Adding greens space to the environment
Preserve the landscape / Farms
Less risk of empty house



The Swap

Empty units convert to Commercial, Retail or Restaurant spaces. They may also be bought for more space from neighboring units



Site Plan

Elevations

West

East

North

South

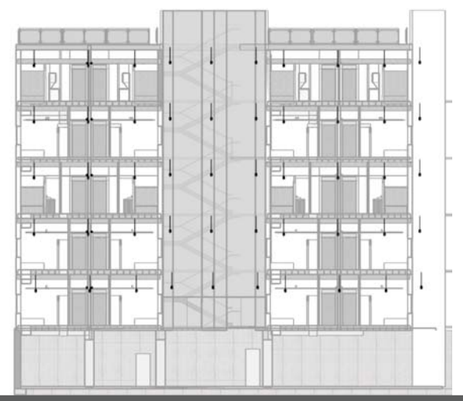
Longitudinal Section

Systems

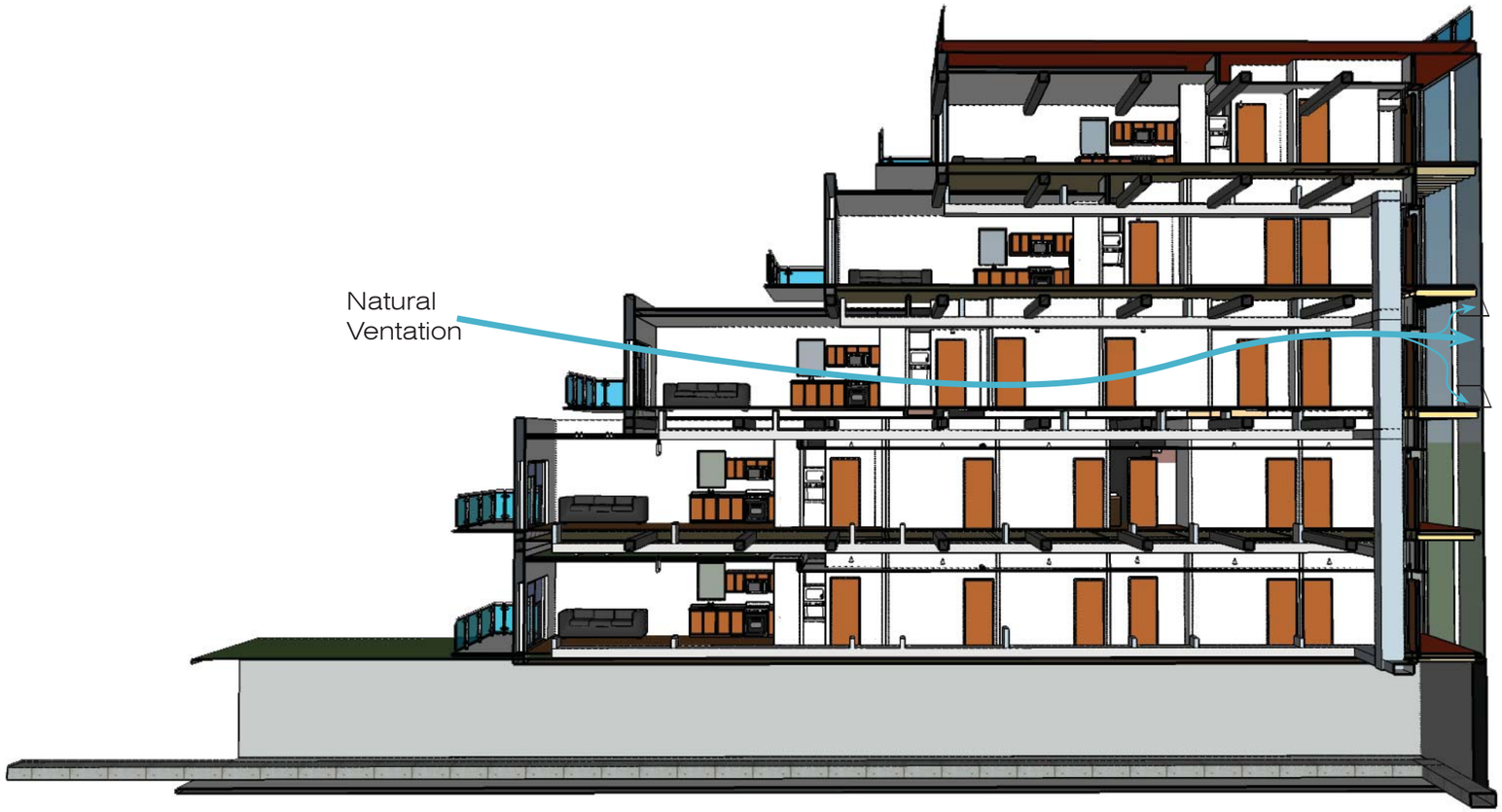
Structure

HVAC

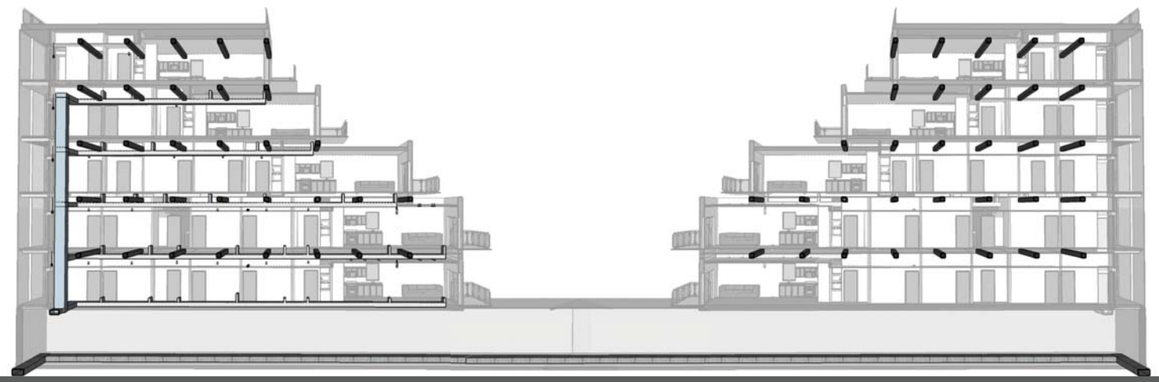
Lighting



Horizontal Section

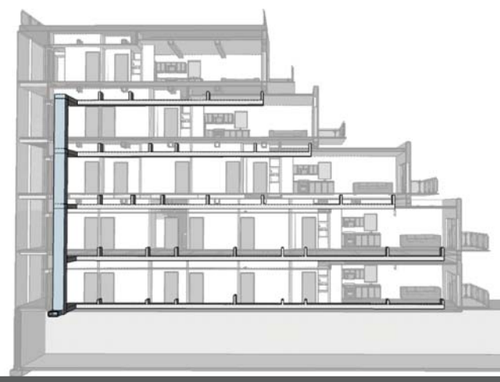


Systems

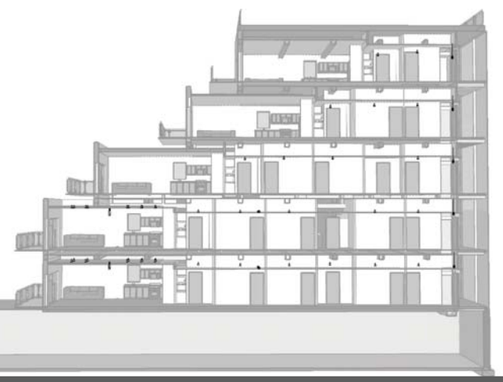


Structure

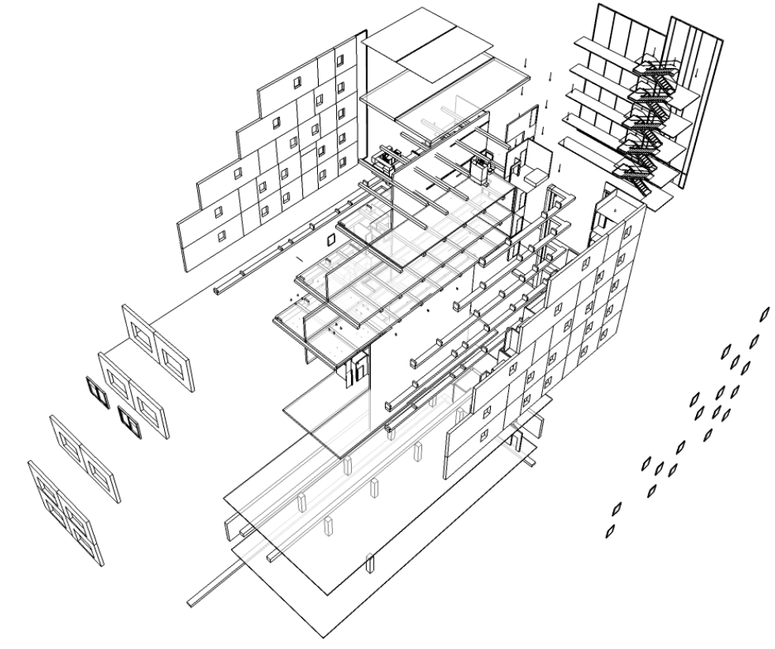
HVAC

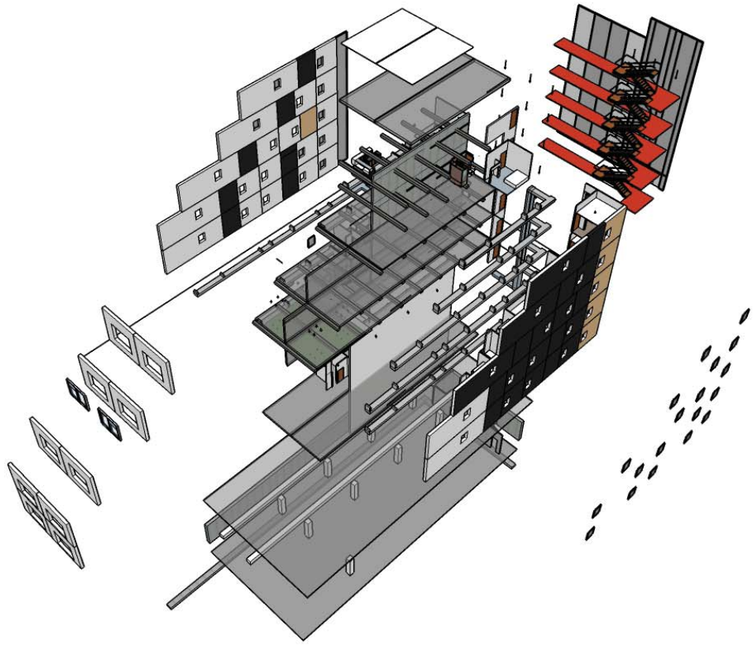


Lighting



Longitudinal Section





Rhino/ Grasshopper