

Knoll Place Like Home

What do I believe?

I believe in a lot of things. I believe that the sun is most beautiful when it begins to disappear. I believe that everything deserves to have a voice. I believe that all animals and plants should respect one another. I believe in a lot of things, some simple, some complex, but nothing I do goes against my beliefs. One of my strongest beliefs is that nature is unconditionally good, and yet we still choose to harm it.

We demolish forests, we pollute streams, and we dispose of our waste wherever we see fit. This is something I believe should be stopped. Though I cannot stop these things from occurring, I can lessen my negative impact on the environment and inform those around me about the results of their actions.

Moving from the Las Vegas Valley to Virginia, it was a drastic change in scenery. Virginia's lush mountains is where I spent my developmental years, frolicking among the trees and alien creatures that inhabited the area, all of which were foreign to me. I learned about them from my grandmother, who spent most of her time in the garden. I believed that garden was my personal, fantastical realm. I believed that the willow trees danced with me in the breeze.

Then we moved to Nashville, where there were no mountains, and there was no garden. There was no exploring. We lived in a small condominium with a ten-by-ten fenced yard—with no grass.

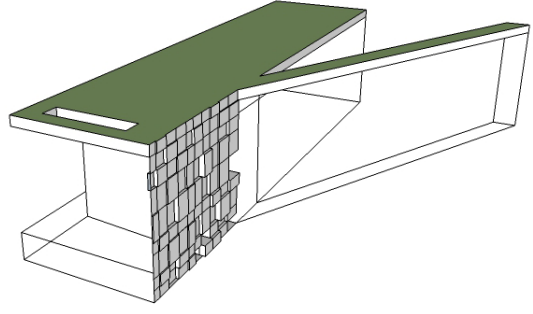
I return back to my grandmother's mystical garden every now and then, hoping to see what I saw as a kid. But since I left, the garden has died, and the land has become littered with debris from the road beside it.

I believe that everyone should experience that whimsical place at some point in his or her life. The place where you feel at ease, and where you can simply sit and be. I want people to stop taking for granted what we have had for hundreds of thousands of years.

I believe that people are so intimidated by nature that they are afraid to truly experience it. They are so overwhelmed by its glorious magnitude that they shudder in fear and resort to their smartphones for a distraction, hoping they won't see it.

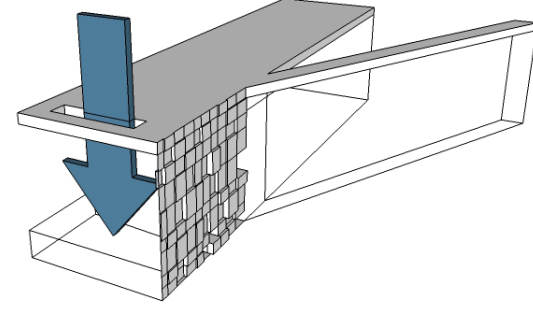
Today people need a place where they can enjoy life and all of the things it has to offer; whether it be food, socializing or nature, we should all learn to enjoy the smaller things in life. This means we shouldn't design in the moment. We should design for the future. We need to keep not only the form and function simple, but we must also accept the ideas of sustainability to ensure a healthier tomorrow. I believed that I could never become happier.

Earth



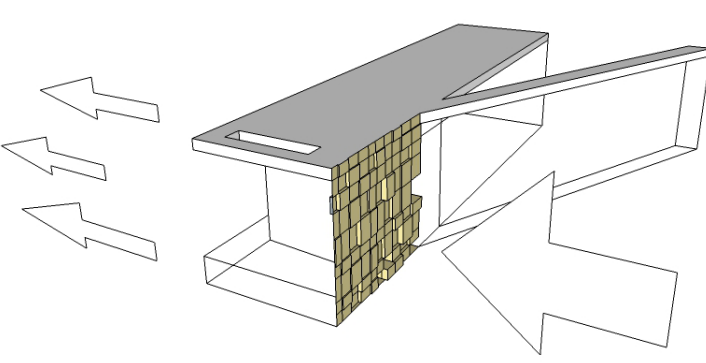
Acting as an extension of the earth, the structure encourages relationship between the built and natural environment.

Water



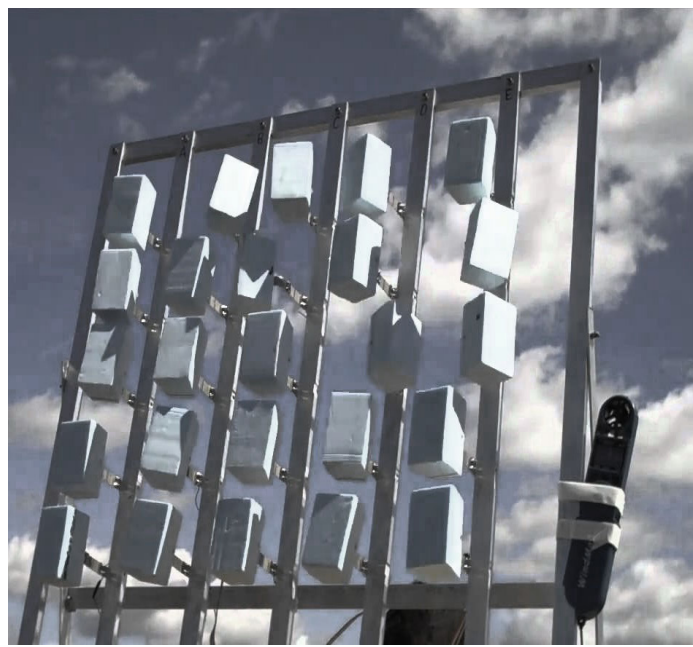
Manipulating the rain to form a water-feature, it connects the built environment to the water below.

Air

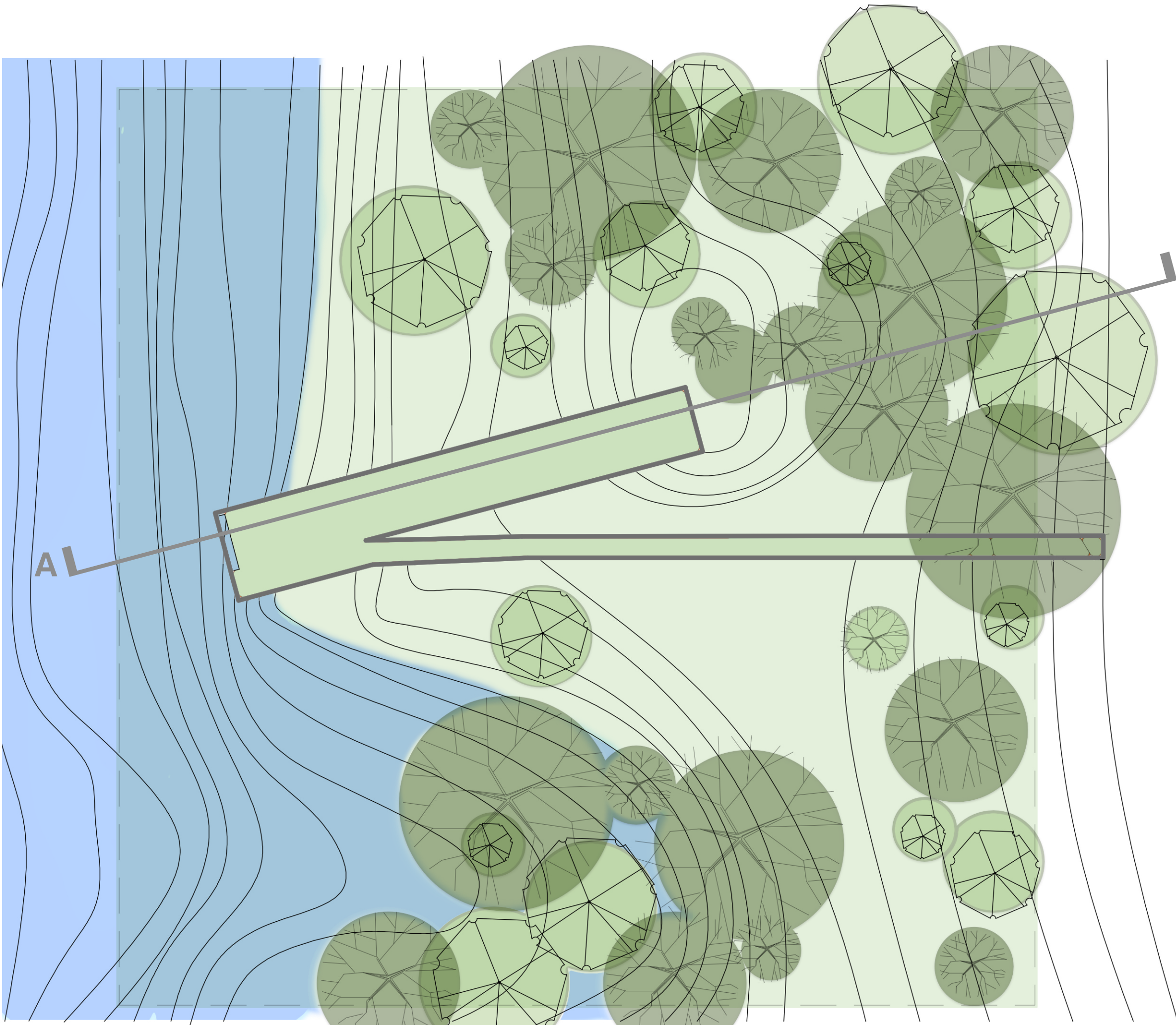


Allowing for the air to not only penetrate the space, but interact with it, Vibrowind uses piezoelectric pads that utilize kinetic energy gained through the wind.

Vibrowind Piezoelectric Pads



Developed by Professor Moon of Cornell University, Vibrowind is safer than turbines and can generate electricity with as little as 2mph winds. Assuming the wind speed average is constant, Vibrowind would produce more than 12,000kwh, which is enough to make the residence net-zero.

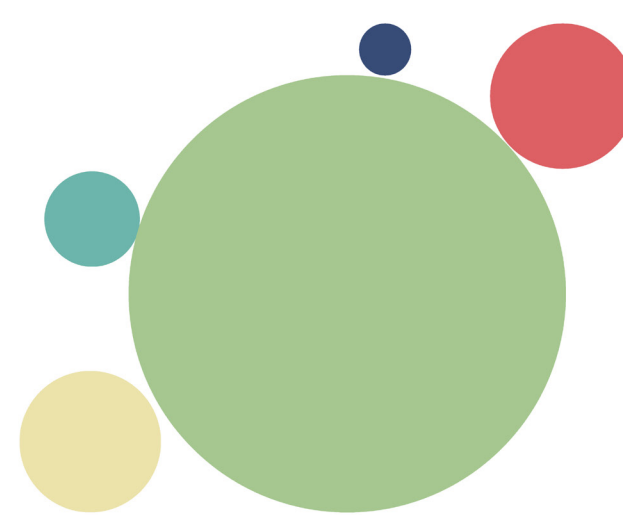


Roof Plan

3/64"=1'-0"

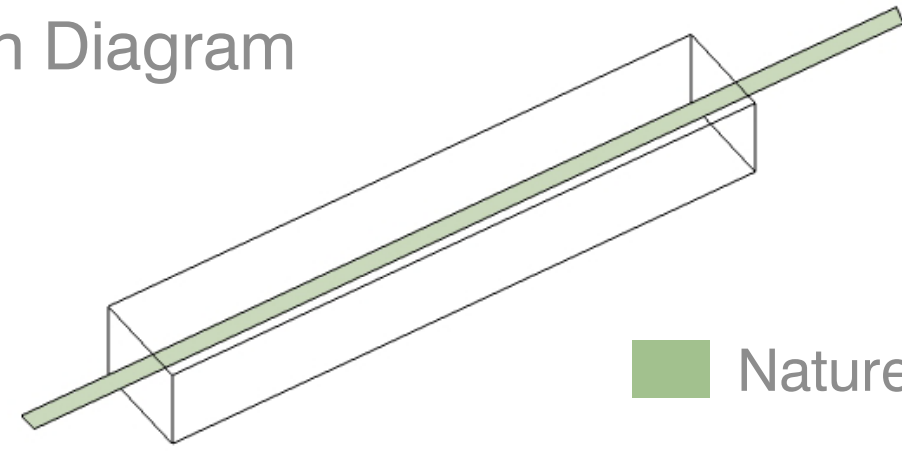


Space Hierarchy

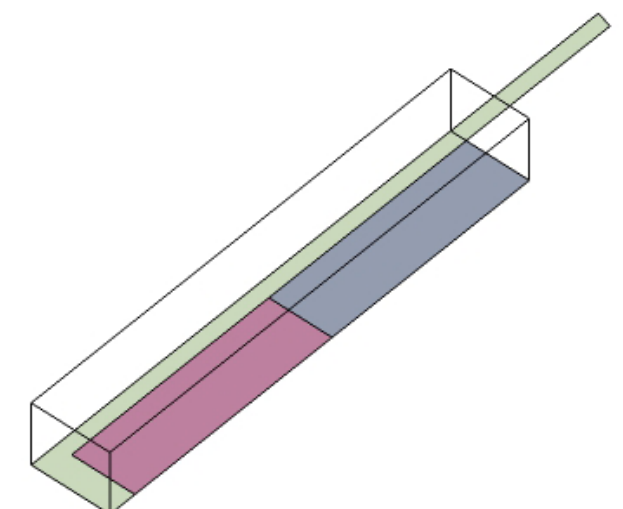


- Exterior Living
- Bathing
- Utilities
- Sleep
- Nature

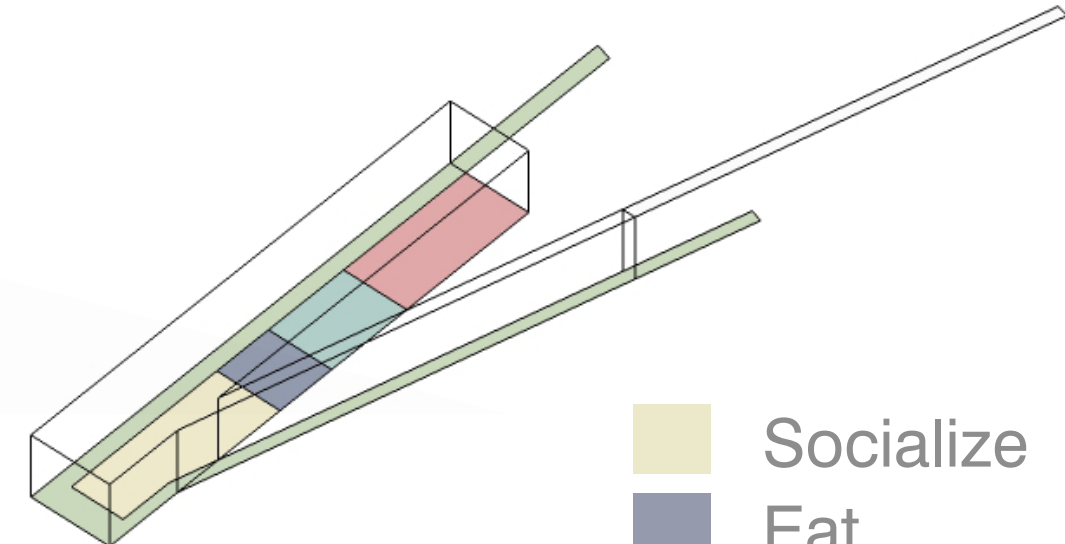
Progression Diagram



Rotating it to limit the negative effect of the setting sun, the space then became divided into public, private, and exterior living space.



Originally focused on the views of the sunset, the main path is parallel to the main axis, running east to west.

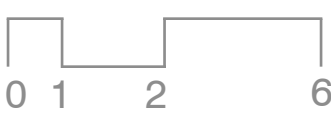


Allowing for nature to pass through the built environment, the path was elongated to promote the feel of outside, while being enclosed.

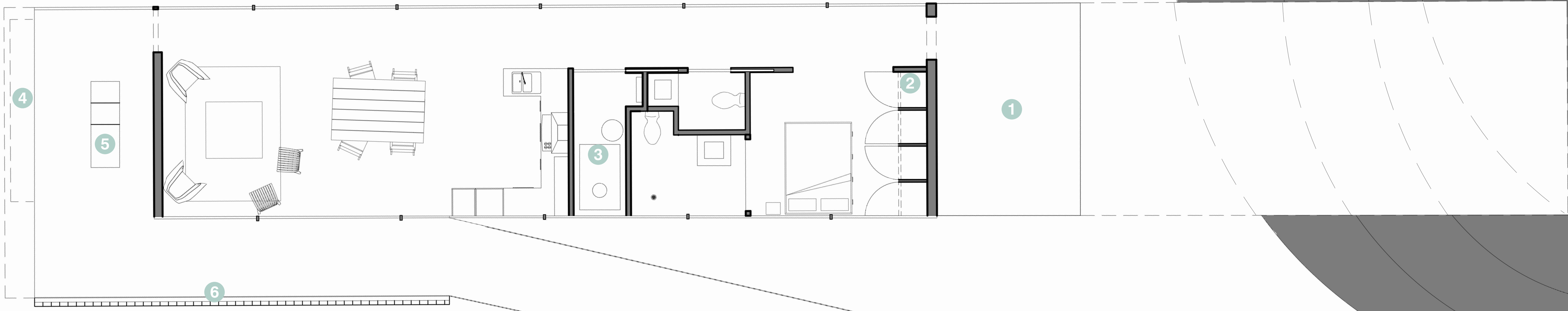


Floor Plan

1/4"=1'-0"



- 1 Parking
- 2 Washer + Dryer
- 3 Water Collection System
- 4 Waterfall Feature
- 5 Exterior Seating Element
- 6 Vibrowind Wall System



Section A

3/64"=1'-0"

