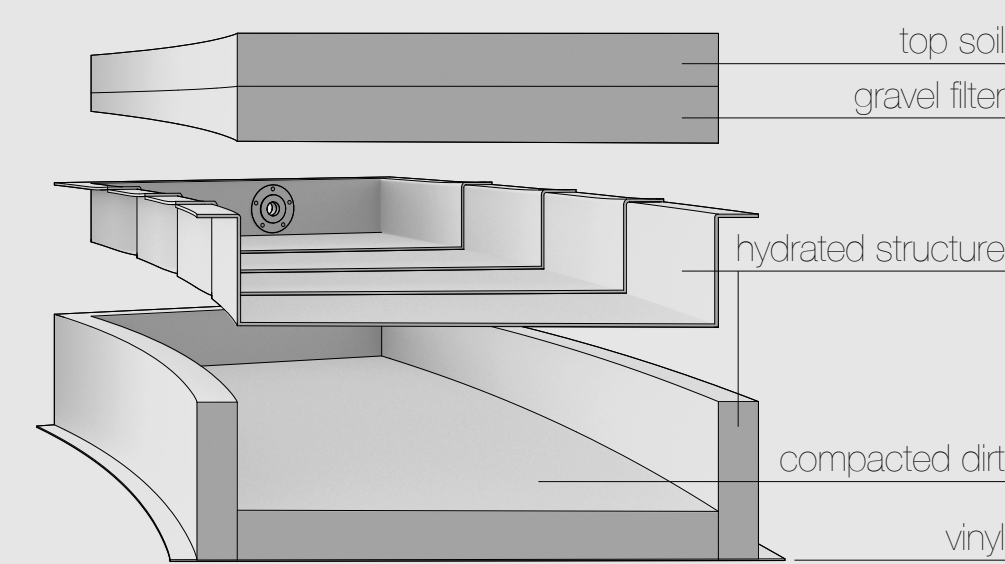




As a construction methodology, this technique can be employed at various scales, from something as large as a building to something as small as a piece of furniture/botanical cell.



It contains spaces for harvesting food and processing waste, a system in which precious, limited resources can be re-cycled at multiple stages of the design. Aided only by the natural forces of gravity, the staggered foundation and sloping planes allow water to naturally flow through each stage of re-use. (1) Rainwater is first collected, filtered, and stored for potential use in future sinks and showers. (2) The grey water then travels through a series of planting beds – botanical cells – where the plants absorb nutrients from the water. (3) After flowing through these cells, the water is stored in a deep well to be used in the toilets. (4) Once flushed, it gets evacuated into a black water cistern for the eventual irrigation of the surrounding landscape. Through these conservation efforts water goes through a series of four different use cycles while providing plants valuable nutrients without the overconsumption of limited resources.

Veil operates under the premise that a small change can create a large impact, in both the observable, the expansion of the formwork during the inflation process, and the non-observable, the low carbon cost associated with the erection/transportation of the required building materials. This project looks to the past to solve the problems of the present. Rather than trying to introduce some foreign structure to the site, this project tries to create a union between the people, the land and the shelter with the Veil acting as the glue, holding it all together. It is an intervening force that creates an occupiable void within a monolithic earth.

#### first

precipitation is collected, filtered and stored for potential use in future sinks and showers

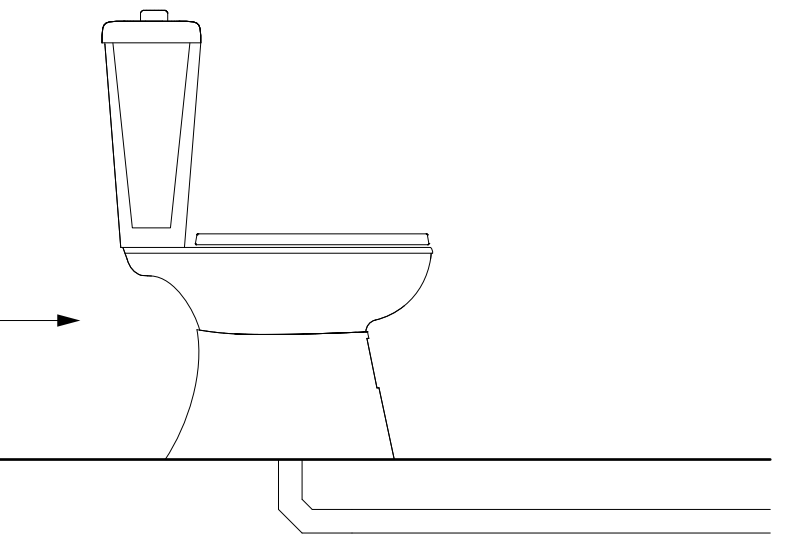


#### second

grey water is filtered through a series of botanical cells within the greenhouse where plants remove bacteria from the water, gaining valuable nutrients

#### third

grey water becomes re-stored for use in toilets



#### fourth

waste gets evacuated after each flush, centrifugal force separates the waste based on type: solids are composted while liquids are used again to irrigate the immediate landscape surrounding the structure

