

## COOLING RESIDENCE

PROJECT III.

### SUSTAINABILITY

This residence is placed underground in order to take advantage of the cold ground. Rather than using conventional methods of air conditioning, which require lots of energy consumption, this method is passive and low in emissions.

This project also utilizes a green roof to absorb heat from the over head sun.

Local stones and sand will be used for the concrete aggregate mix. Thereby the transportation emissions from other sources are reduced. The concrete's tones will also blend well into the surrounding environment.

The building will also provide an efficient water collection and filtration system. This establishes a sustainable and cyclical water consumption.

### RESILIENCE

The residence is resilient to rising temperatures by using the ground as a passive cooling method. Rather than exacerbating the rising temperatures with further cooling emissions, the house acts as a carbon neutral machine. This house also allows nearby ecologies to remain resilient and undisturbed.

### WELLNESS

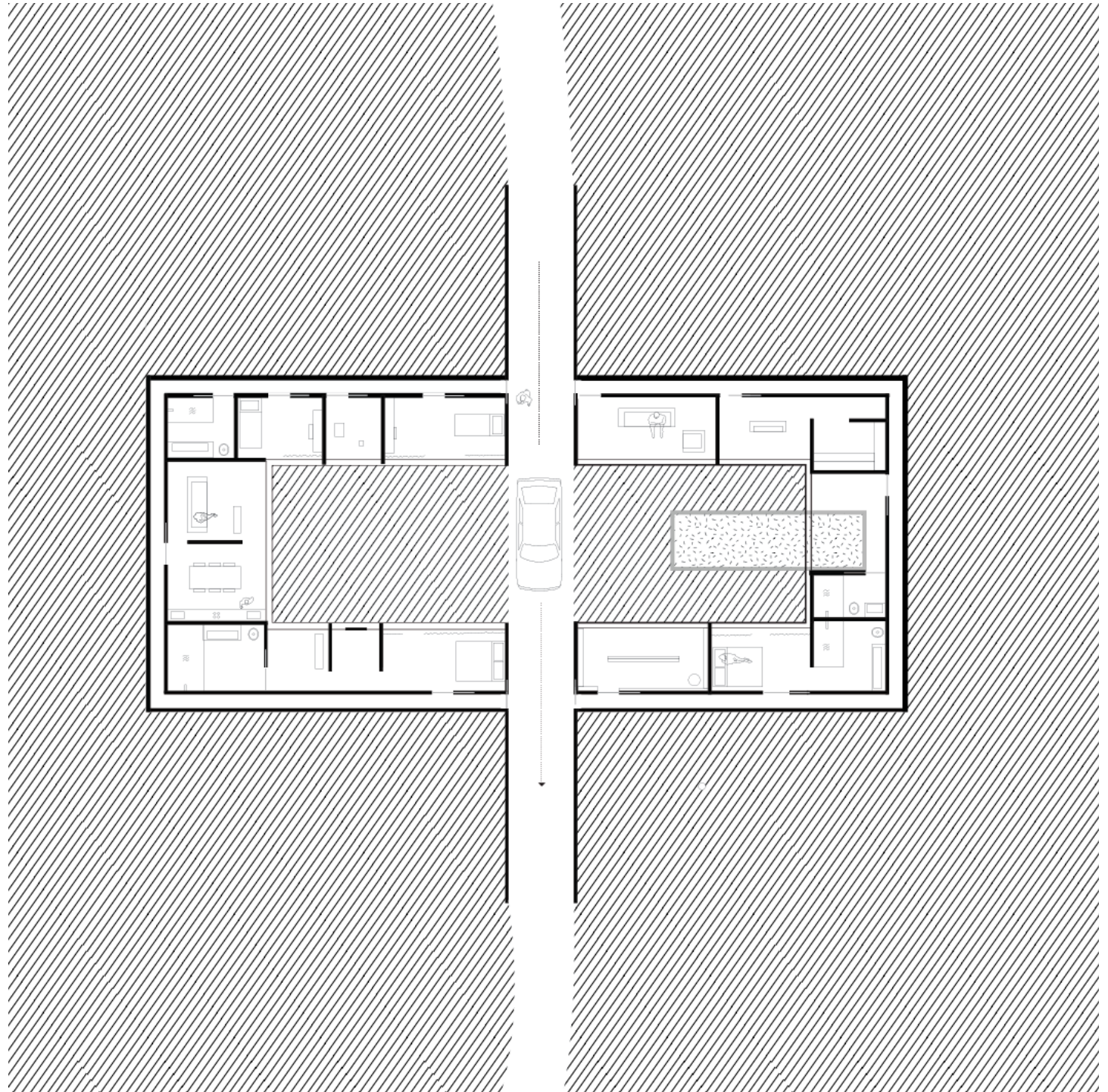
This house is a healthy place to rest. Each room opens up to the interior courtyard and thereby allows fresh air, sun light, and views of vegetation to provide a peaceful living experience.

### BEAUTY

It's rhythmic concrete structure provides a clear architectural language, while the the subdued concrete tones harmonize with the existing scenery.

### PLAN

The house is arranged around a central courtyard, which gives light to each room. A secondary vertical cut in the landscape provides an entrance.



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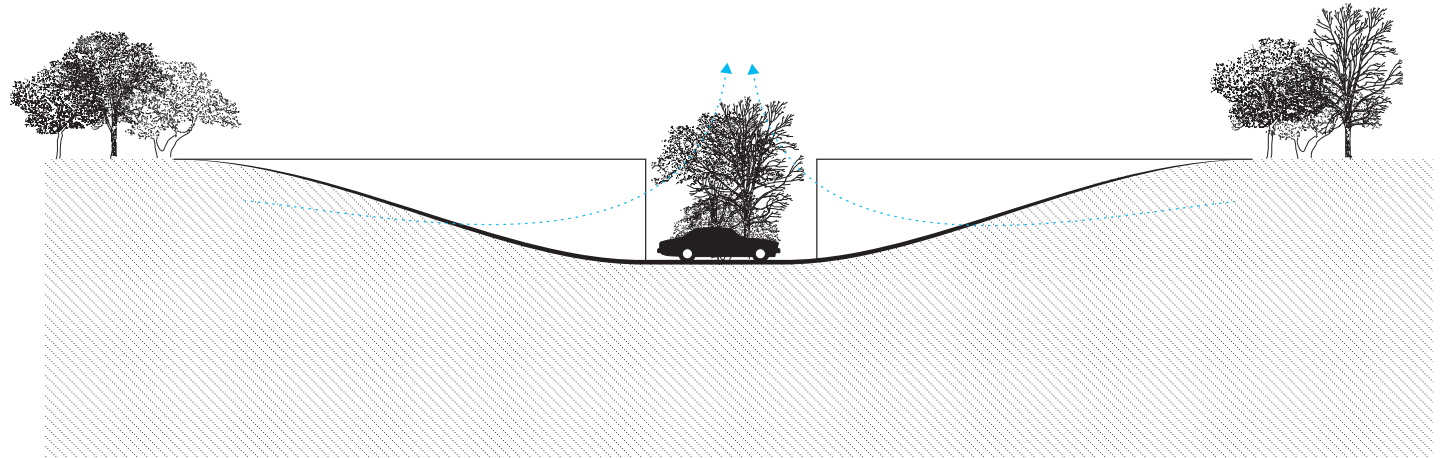
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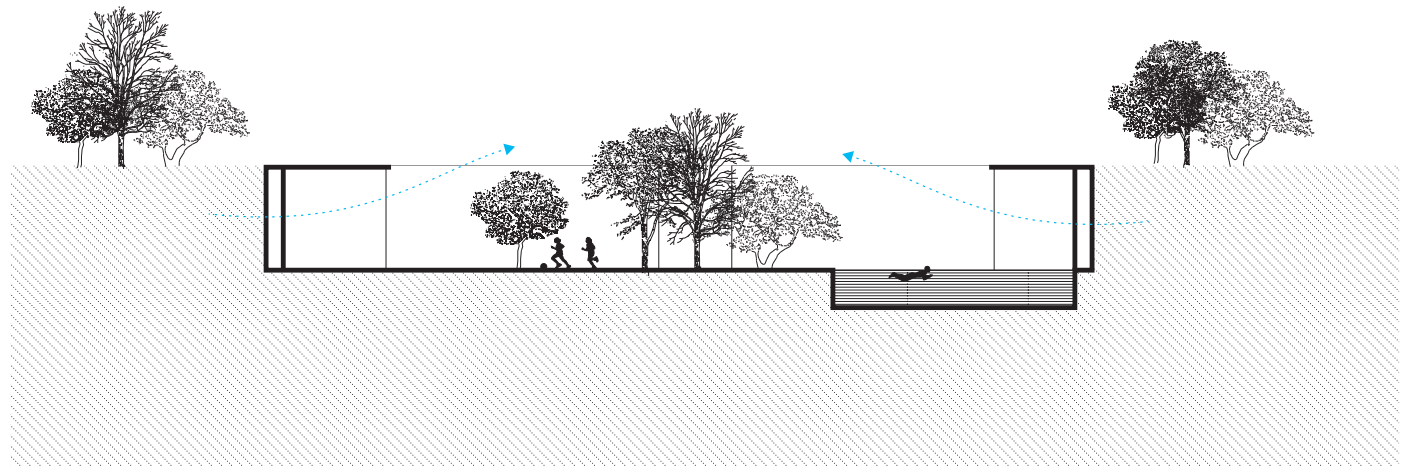


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## SECTION

This project utilizes the cooling effect of the ground in order to reduce CO2 emissions from air conditioning in the summers. It also creates an undisturbed view of the landscape from above.

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### INTERIOR COURTYARD

The inner courtyard provides ample light and fresh air to the interior rooms. It also acts as a private garden and entrance from the main access road.



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### LARGER CONTEXT

Sunken within a meadow, the residence disappears within the horizon of the landscape. Thus it reduces any impact on the existing views.

