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# CONCEPT DESIGN

3D HEMPCRETE HOUSE



## PROJECT

SUSTAINABLE HOME MADE OF 3D  
HEMPCRETE



## CLIENT

Jason, Liberation Earth

ARQ. JESSICA CARRILLO CHÁVEZ  
SUSTAINABLE ARCHITECT

## LOOK AND FEEL



## INTERIOR REFERENCES



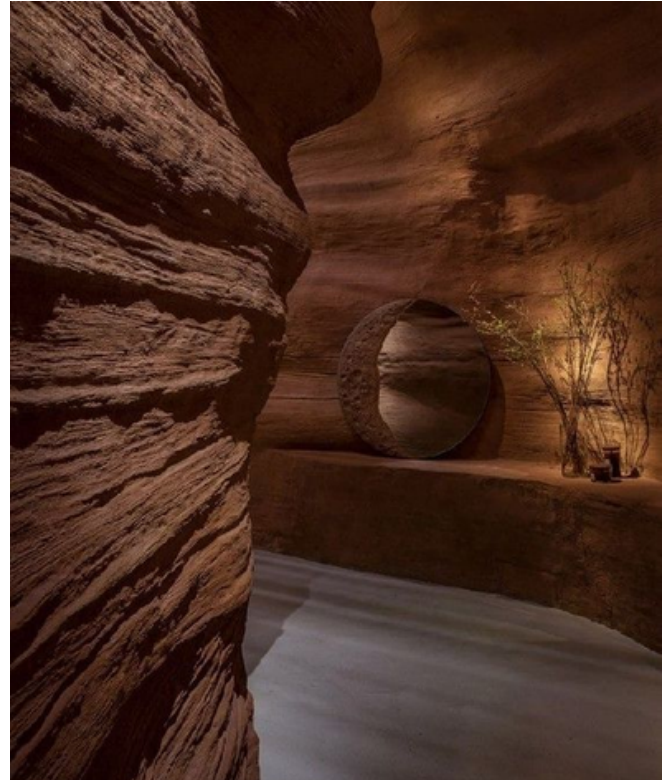
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## INTERIOR REFERENCES



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## LOOK AND FEEL



## CONCEPT

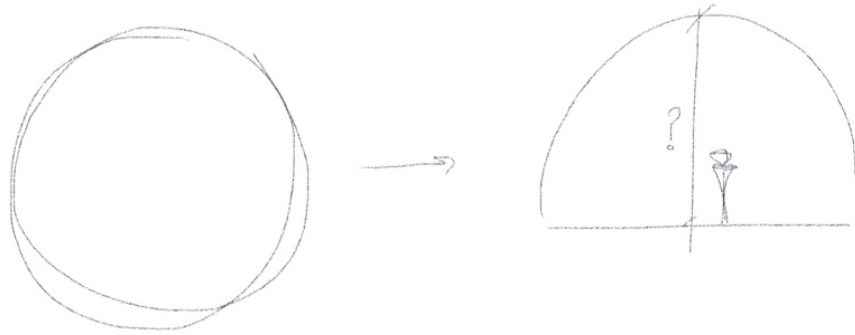


Figure 1.

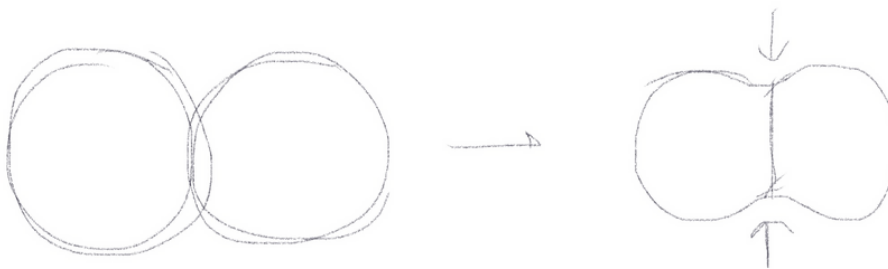


Figure 2.

Figure 1. I start to design with a simple dome, and try to figure out the area of the project, but then I found very difficult to execute because of the considerable height.

Figure 2. I choose to split this area in two circles (domes) but I found a little difficult to have all the spaces in the best facade (south), and also the narrow way of joining the domes meant that a lot of interior space was lost.

## CONCEPT

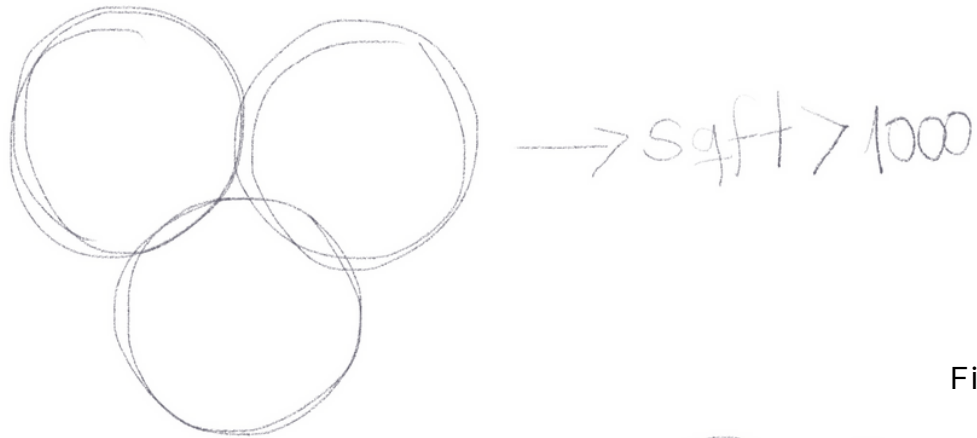


Figure 3.

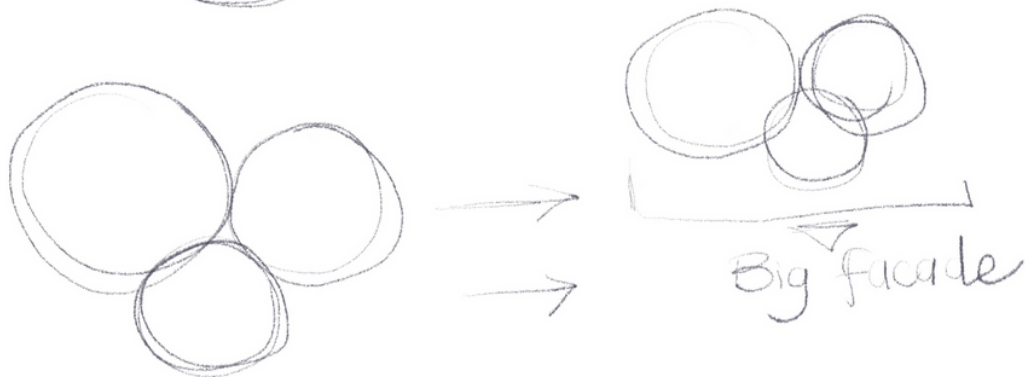
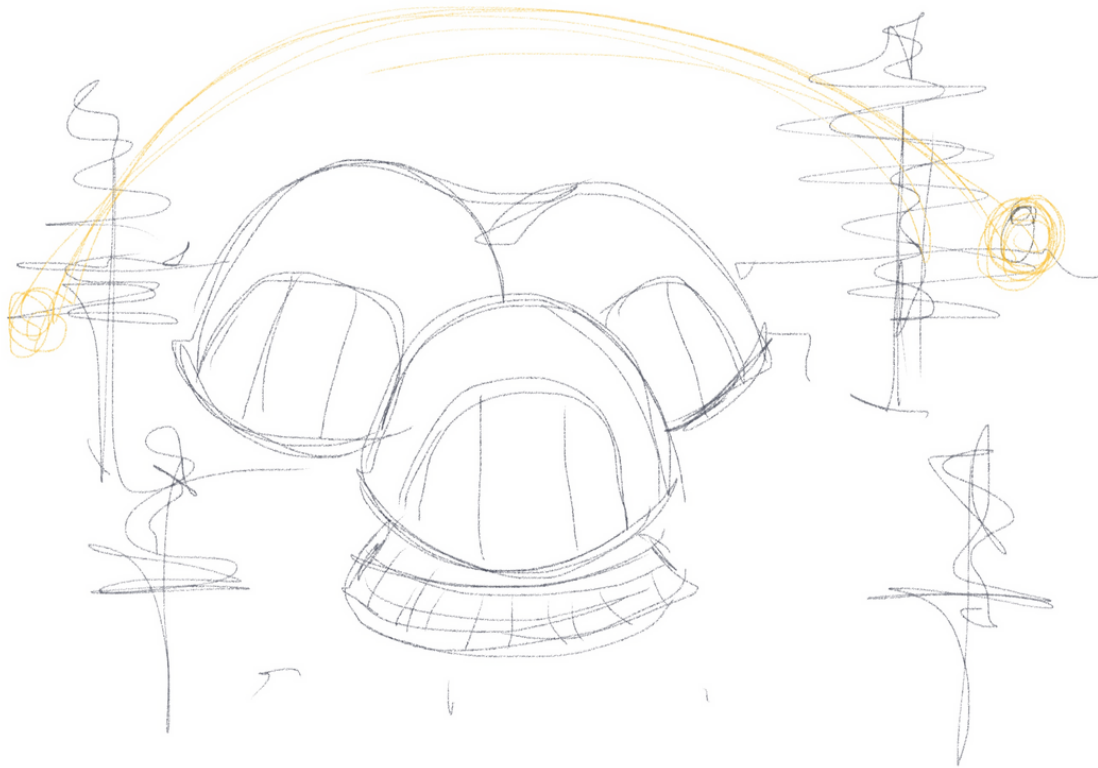


Figure 4.

Figure 3. When I try to use three domes with the same size it doesn't work because, the project area became larger than the request. Also, it make more shadows on the principal facade, and I was looking to benefit with the sun incidence.

Figure 3. I decided to play with different sizes, according with the spaces of the project, and trying to have a flat facade, when the sun can enter in this facade.

## CONCEPT



From this result I will have the brightest façade, and with the largest windows in the three spaces to allow the sun to shine on the coldest days.

This allowed me to organize the spaces with the best views towards this facade, leaving the service areas towards the north facade.



## ZONING AREAS



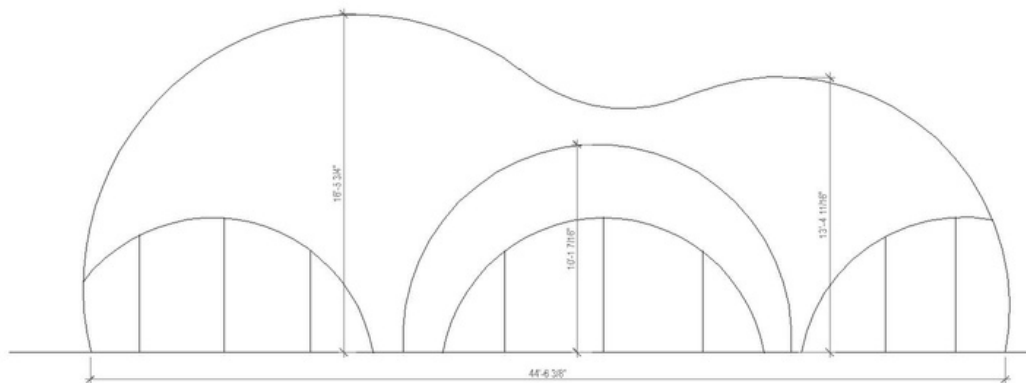
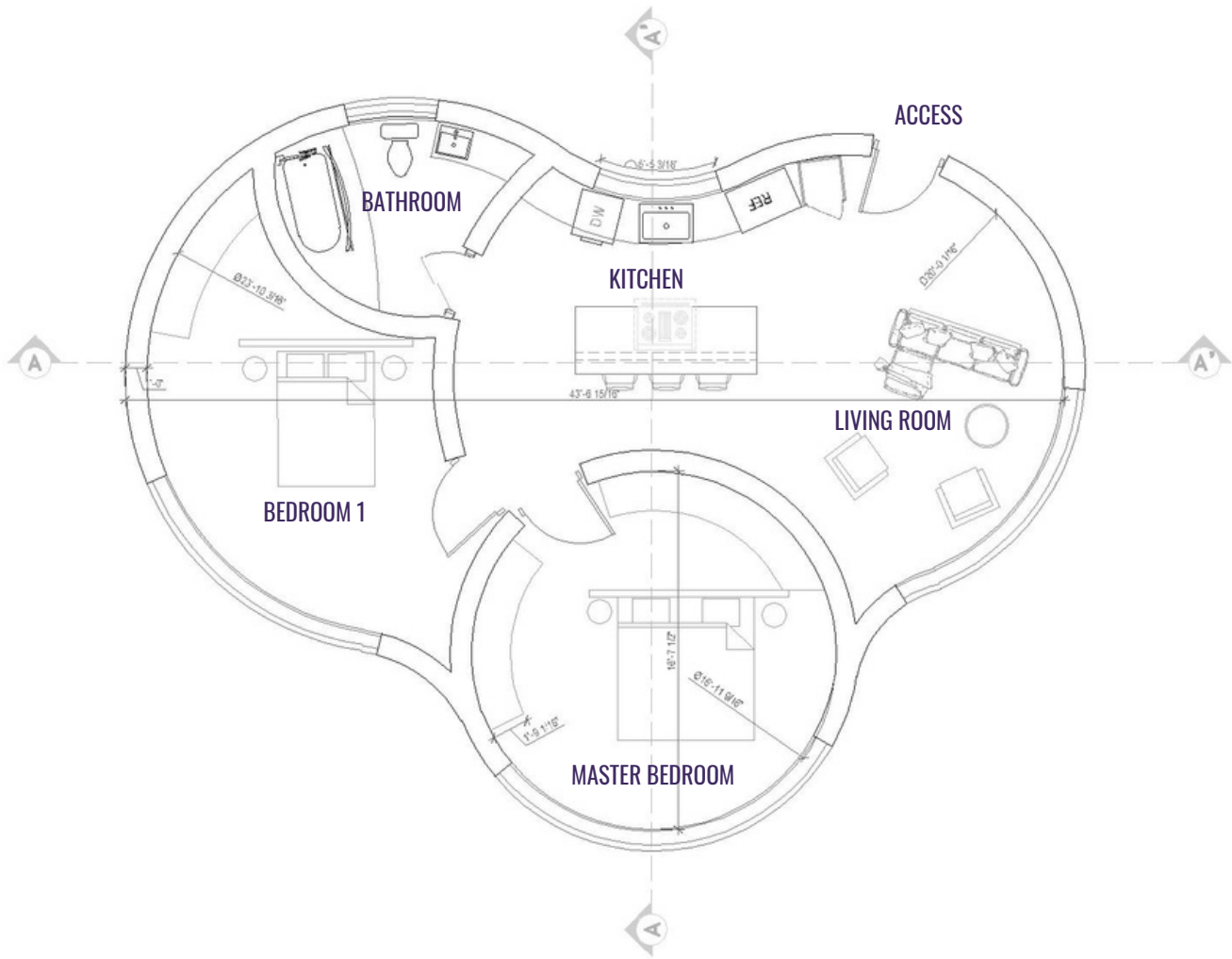
In this design, I include:

- Living room
- Kitchen/dining
- Master Bedroom
- Bedrom
- Bathroom

All áreas are connected by different circulations, allowing spaciousness in all spaces and giving the possibility of flexible spaces that can be adapted to any family.

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**SOUTH FACADE**

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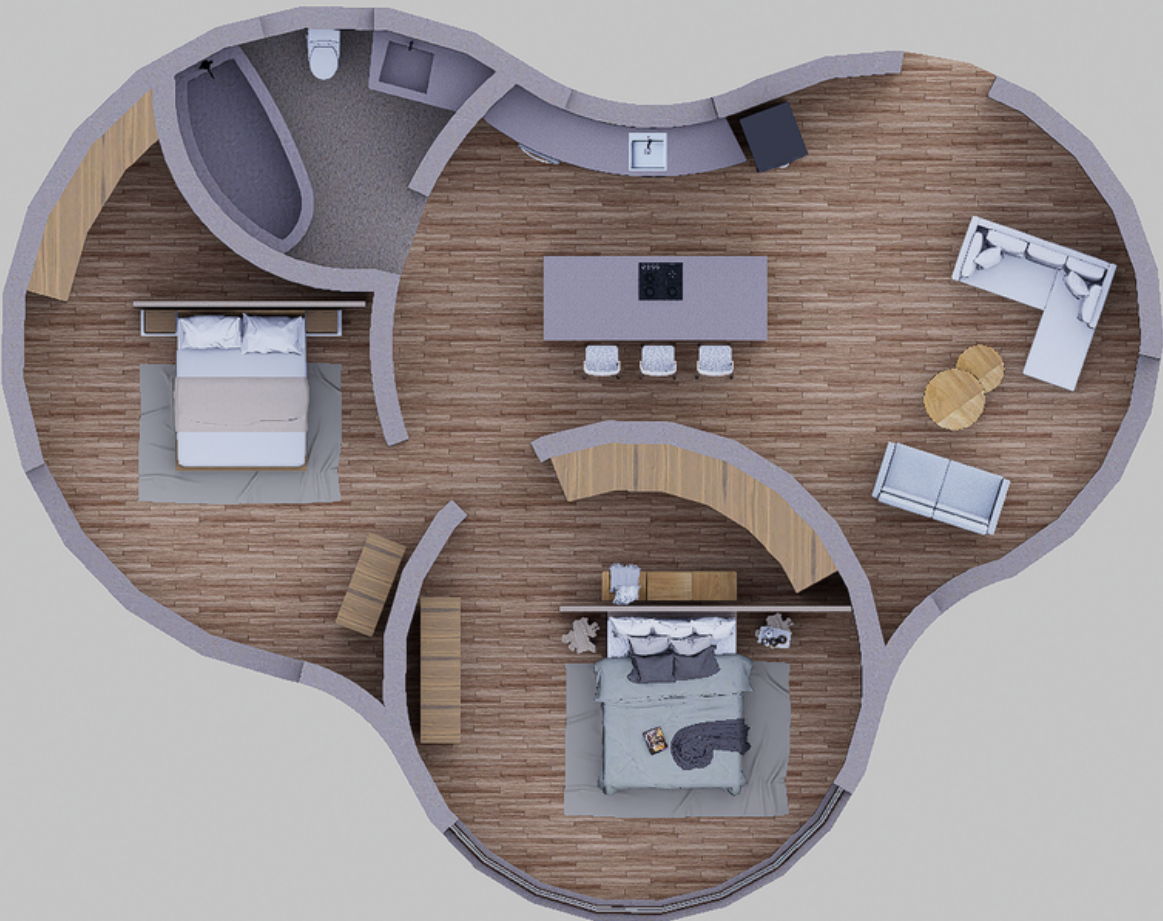


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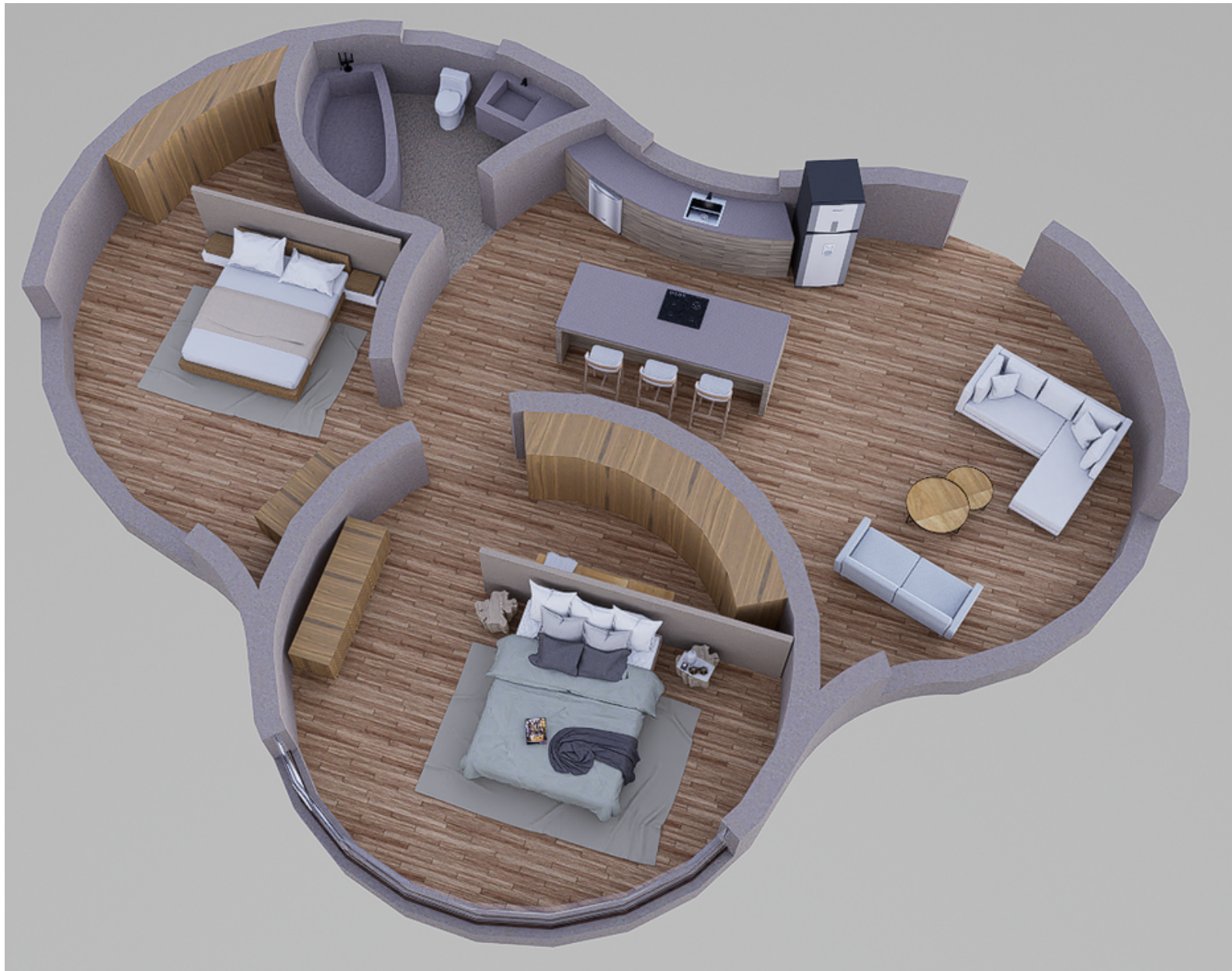
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## INTERIOR PROPOSAL FOR GENERAL PROJECT



Materials that I suggest to use:

Wood: general floor. It should be local wood and certified as a sustainable wood FSC. It's also recommended to use radiant floor to increase the heat inside.

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SUSTAINABLE ARCHITECT

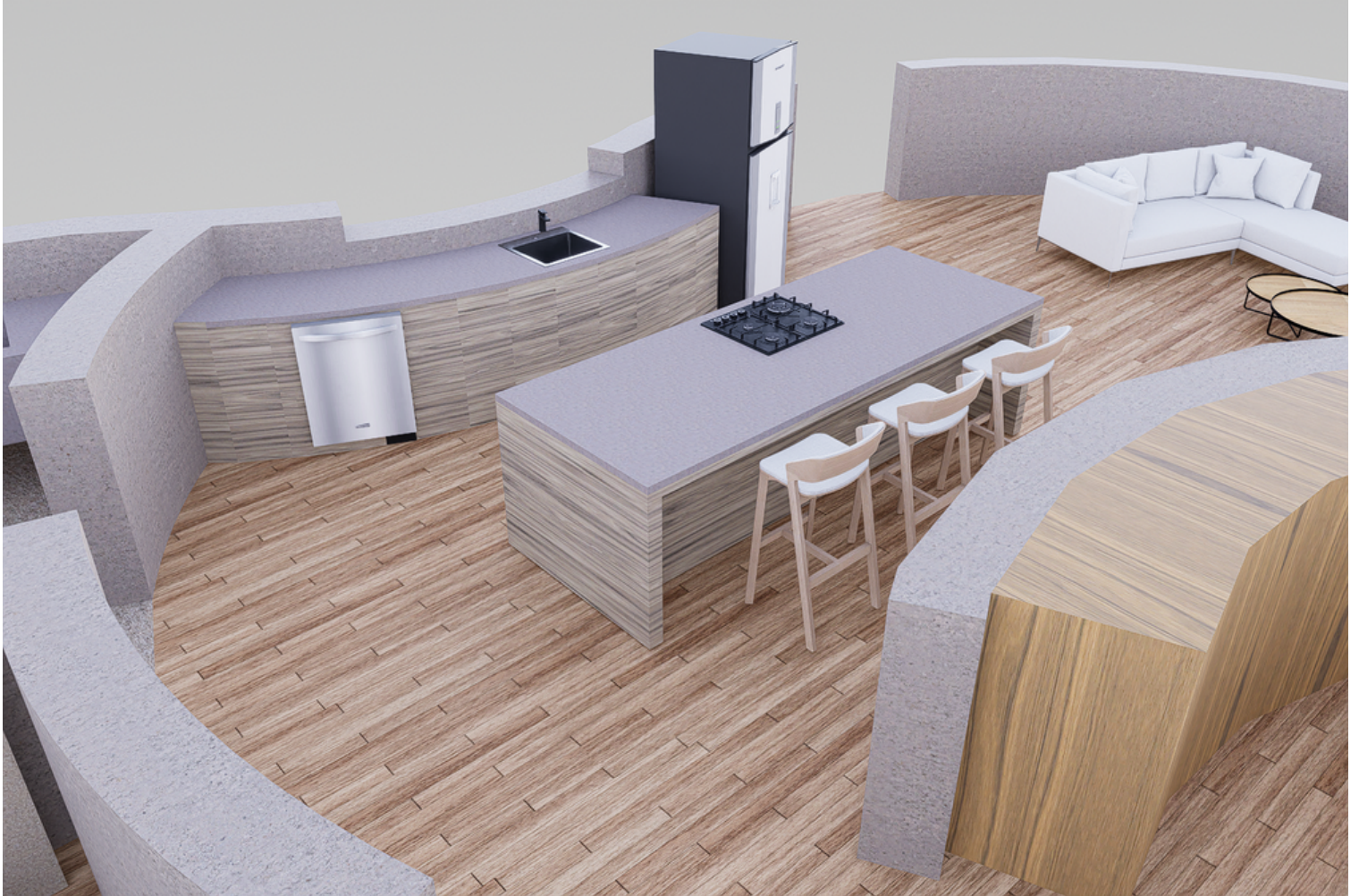


## INTERIOR PROPOSAL FOR LIVING ROOM

Furniture: Certified fabrics, and also certified wood.

Windows: Frame/ wood if it's locally easy to fabricate, second option: PVC

Glass: double glazed (as we see in sustainable strategies in the preview document)



## INTERIOR PROPOSAL FOR KITCHEN

Top of the kitchen: Glass recycled content/terrazo  
Kitchen: wood certified FSC  
Home appliances: Energy efficiency



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## INTERIOR PROPOSAL FOR BEDROOM

Wood furniture: Certified as a sustainable wood.  
Fabrics: Natural as recycled cotton, bamboo, linen.

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## INTERIOR PROPOSAL FOR BATHROOM

Bath floor: Concrete

Bathroom faucets: Water efficiency savings.

Bathtub / lavatory: Made in site. (Concrete)



**INTERIOR PROPOSAL FOR MASTER BEDROOM**

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**INTERIOR PROPOSAL FOR MASTER BEDROOM**