

Stones Farm

Intent

To provide a Nature Hide to allow children and young adults the ability to observe animal and birds in their natural setting. Also to be taken into account are:

- Minimising visual impact on the area
- Reducing Ecological disturbance during construction
- The use of Environmentally friendly materials
- Creating a comfortable self sustaining structure

Concept

Roof support posts to be made from upcycled tree trunks minimising impact of visible elements



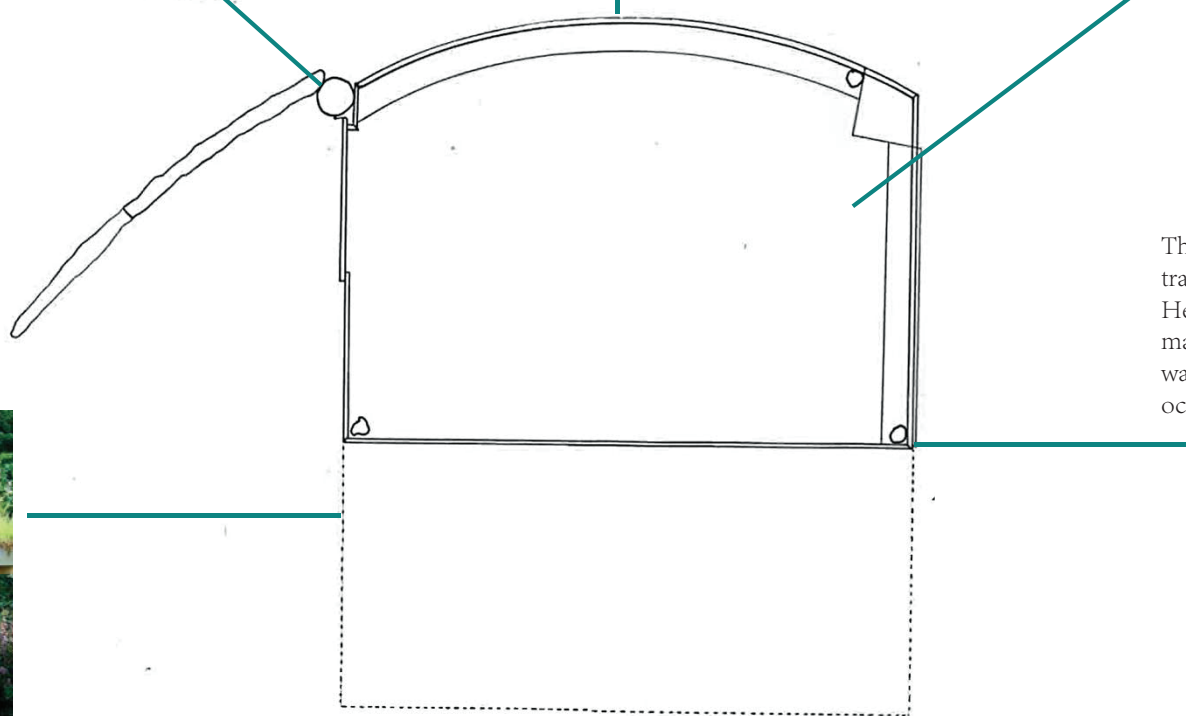
The half-height Hempcrete front wall topped with transparent plastic coupled with the full transparent rear wall minimises the visual impact of the hide whilst providing good thermal and noise insulation. Hempcrete is easy to self-build and also locks up carbon from the atmosphere.



The space is to be furnished with benches, these will provide seating, can be used as makeshift tables and can be used to stand small children to allow for viewing



Green roof provides an area for birds and other wildlife to rest undisturbed. Visual impact of roof will also be minimised.



The hide's rear wall has been made transparent to allow sunlight to warm the Hempcrete wall which will act as a thermal mass heating the space. The transparent wall also facilitates supervision of the hide's occupants.

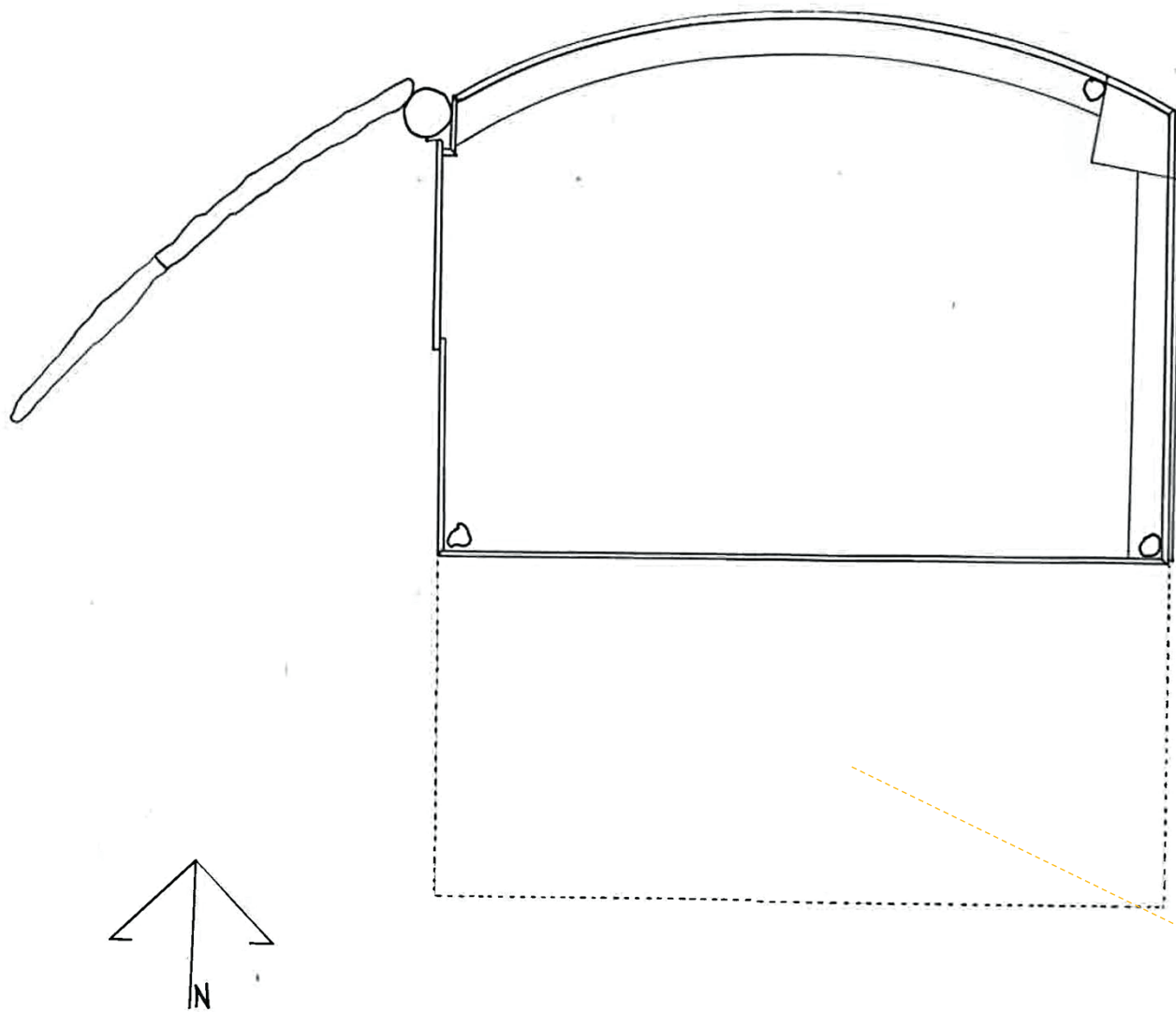


Further Considerations

- Water safety must be considered with children in the area.
- The environmental protection agency may require notification for works on this site.
- Wheel chair access will require a 1:12 ramp, this should follow field edge reducing work load.
- Access could be improved by facilitating drainage to the area, possibly by enlarging the dew pond.
- Development of dew pond area with benches etc. should be considered, pond could be used to hold fish or insects etc.
- Path to improve access would be beneficial, a possible material for this is graded asphalt, this is cheap, recycled and will not stand out.
- The main front window and side viewing window could be mirrored, reducing visual impact from the front and decreasing the likelihood any movement will frighten off animals.
- Periscopes could be used to view any birds which land on the roof and also possibly be used to view look underwater in the stream this may require alterations to the watercourse.
- Natures head or other composting toilet should be considered as a waste disposal solution, these are self-contained units designed for campervans. Wooden toilet cubicle could be located by the trees to reduce visual impact.

Nature Hide

Plan and Section

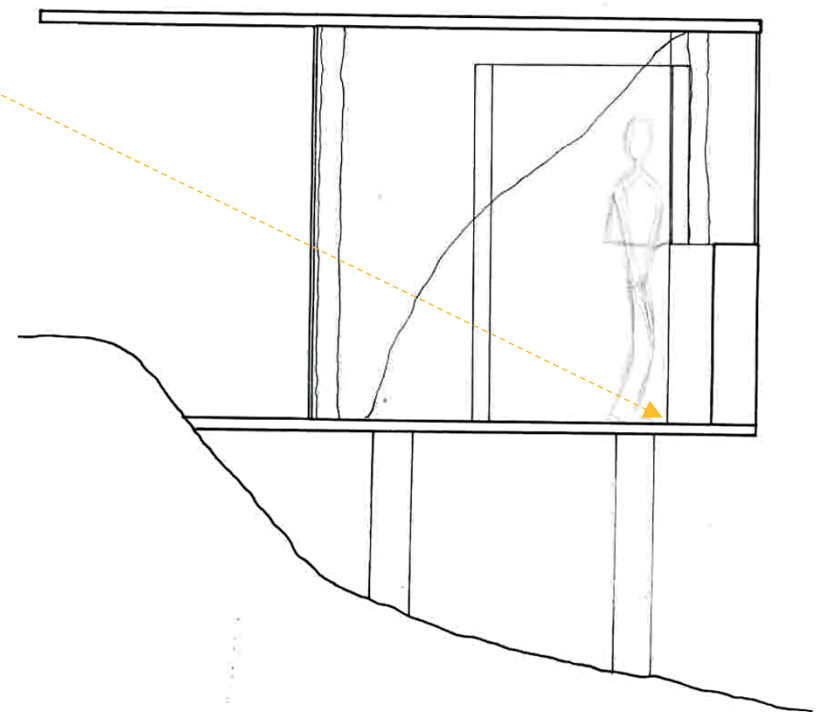


Full height viewing window allows viewing of the brook and integrated bird feeding platform.

Plastic panel and tracks have been deigned to a facilitate self-build minimising the requirements for measurements. Coupled with Hempcrete these can create an airtight construction maximising sound and thermal insulation.

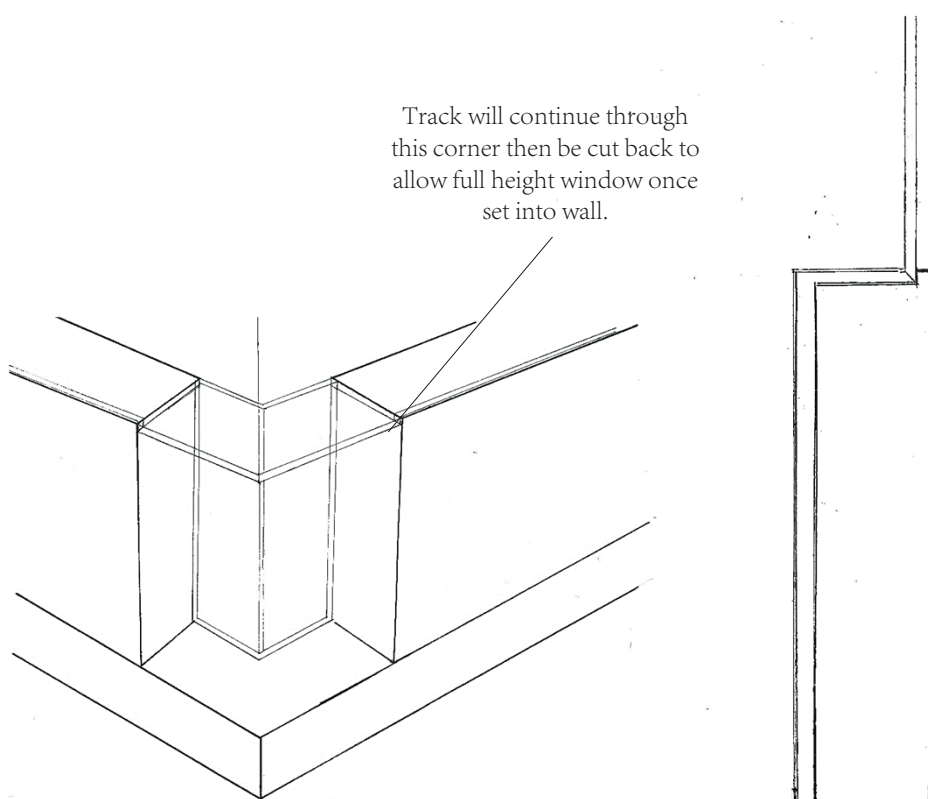
Double wall sealed plastic panels to be used to provide insulation. These may be substituted for single skin panels if budget does not allow.

The roof is extended to the rear to provide shelter from rain and provide shade form the high angle summer sun whilst allowing the winter sun to warm the space.



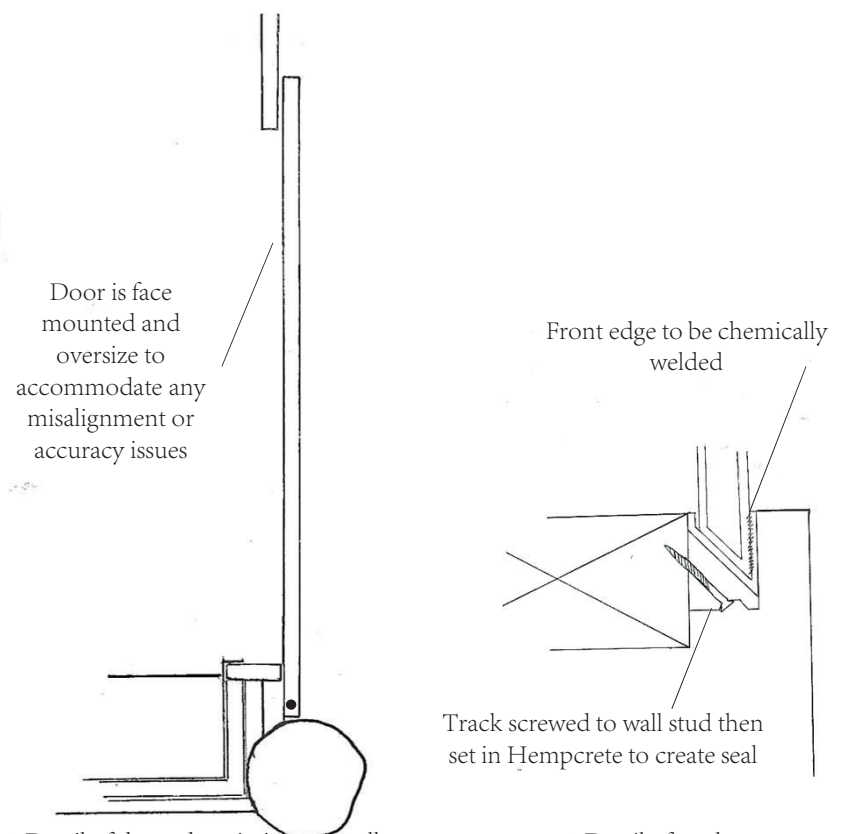
Technical Details

The construction method has been developed to facilitate self-build. This will be achieved using a track system that is prefabricated and can be mounted into the edge of the Hempcrete wall. The track is to be constructed from the same material as the plastic windows this will allow the two pieces to be chemically welded together. This not only allows an airtight seal to be created but also means the prefabricated track can be used to eliminate any accuracy issues that may occur in the construction.



Perspective of full height window

1:10 Detail of full height window



1:10 Detail of door, door is intentionally oversized to take up any inaccuracies in construction

1:2 Detail of track system set into Hempcrete wall