Radiant
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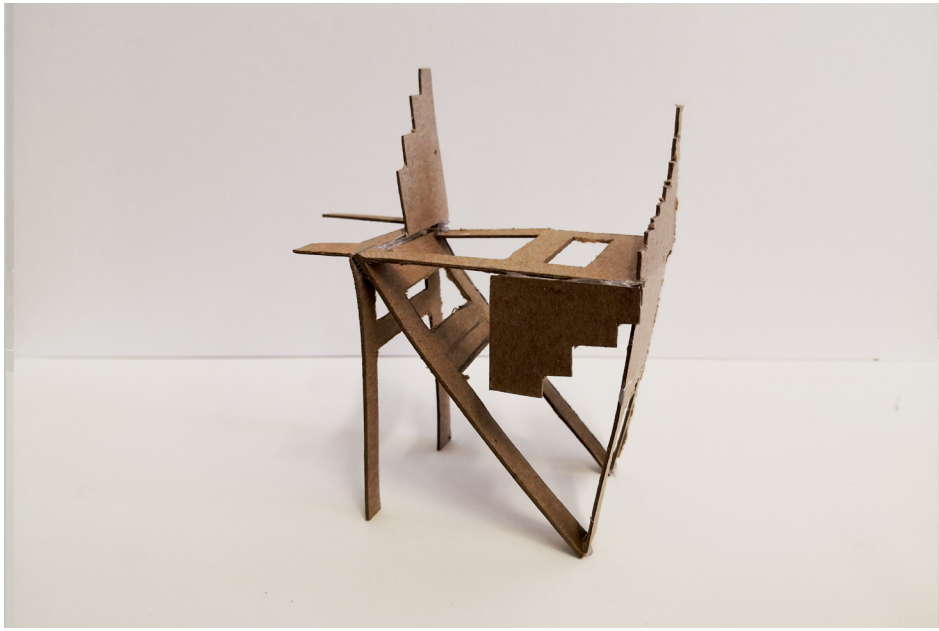
ShelterIn Wall Poiesis III Fall 2021
Studio Faculty: Tonya Markiewicz

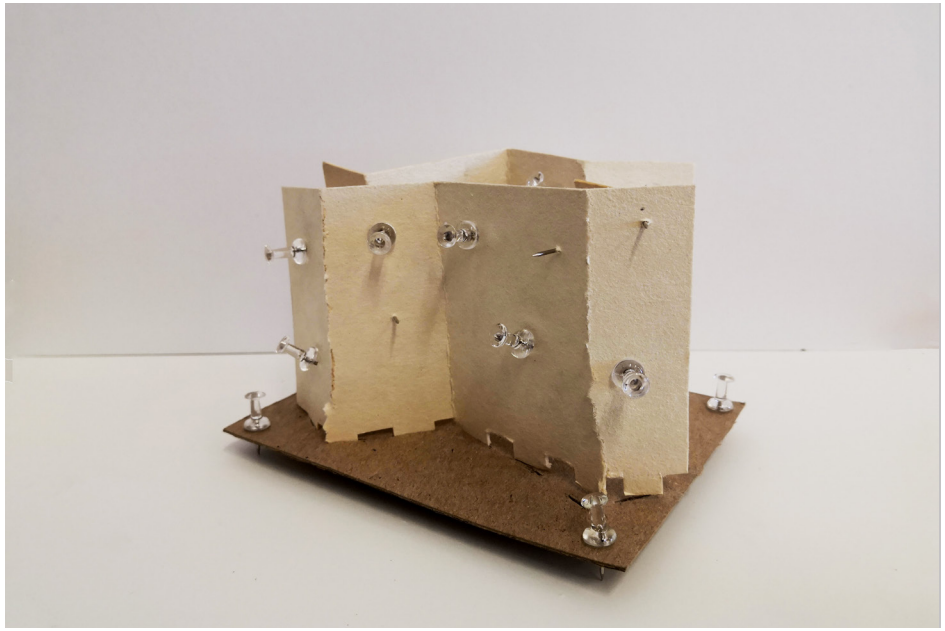
Iteration 1: Form and Material
Five Idea Models

The first iteration of this project focuses on the materials' connection without using glue in addition to the overall structure and forms that fit in with the biome we study. The materials and model scales are open for students to explore.

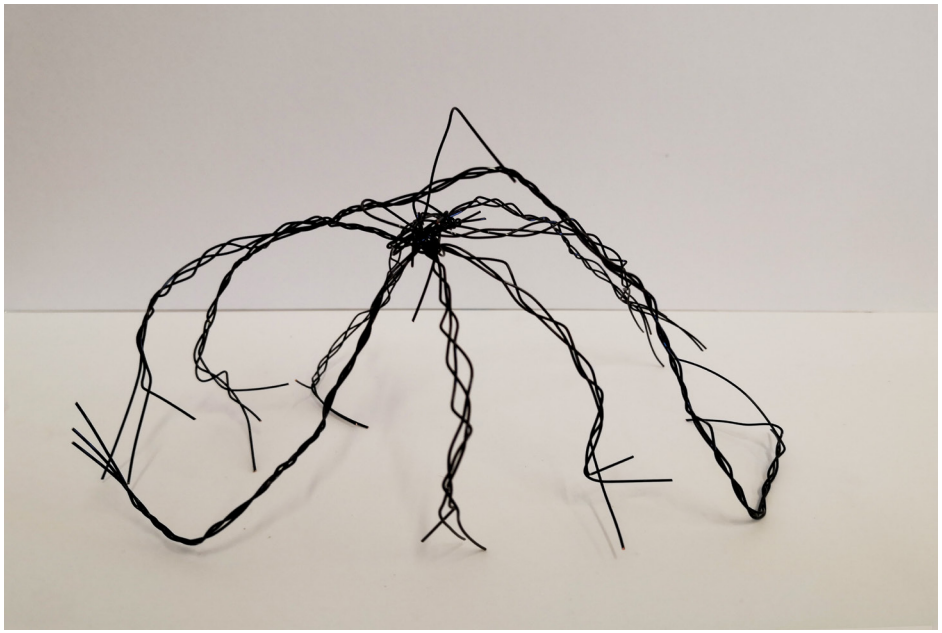
Iteration 1a - Experimenting on the tree structure of the wall to create a biome hierarchy in the Long Leaf Pine Sanvana: the 'tree' branches for animal pathways and the level above the cardboard are spacing for humans, and lower levels are for water pathway.



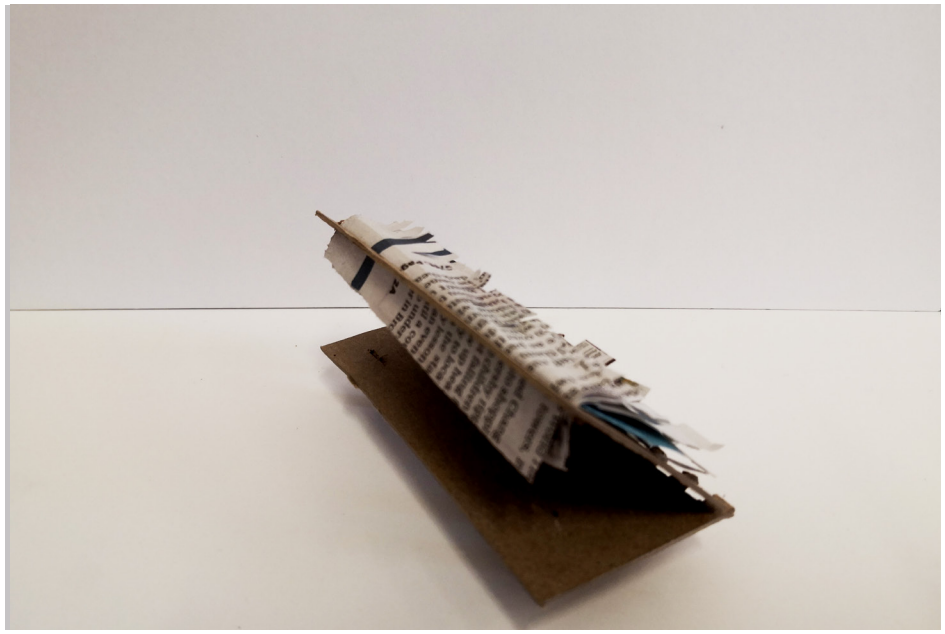
Iteration 1b - Experiment on the combination of square and triangle forms of the wall and how the formation of basic shapes helps to create different spaces.



Iteration 1c - Minicing the winding path of Long Leaf Pine Savanna through the use of paper and using pins to create a resting spot for small animals.



Iteration 1d - Using wire to create a dorm shape structure to construct a climbable wall for humans and animals.

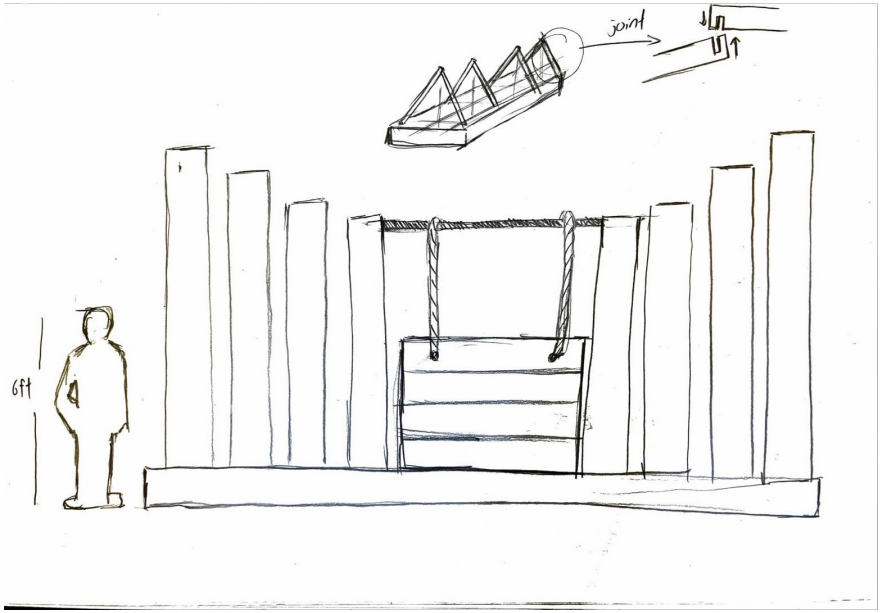


Iteration 1e - This experiment focuses on the joints and connection between two materials by cutting holes in the cardboard to allow the paper to join in.

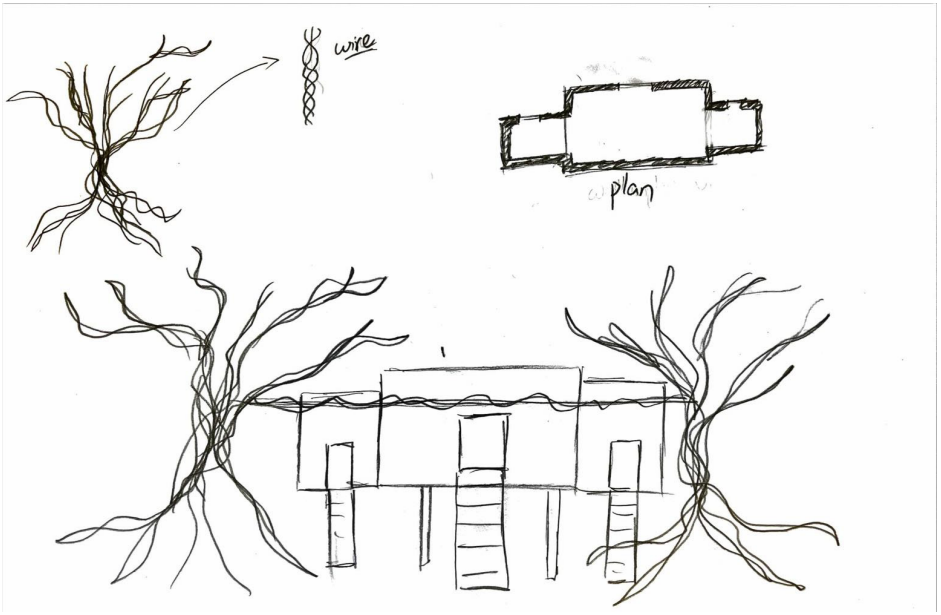
Iteration 2: Form and Scale
Three Sketch models
Model Scale 1/2” = 1’-0”

The second iteration is for students to continue exploring the different materials on the structure of the wall. In addition, students need to design a way showing that how the wall structures respond to their surrounding environment.

Iteration 2a - Front View of Model 1 Experiment



Iteration 2b - Sketch for Model 2



Iteration 2c - Sketch for Model 3

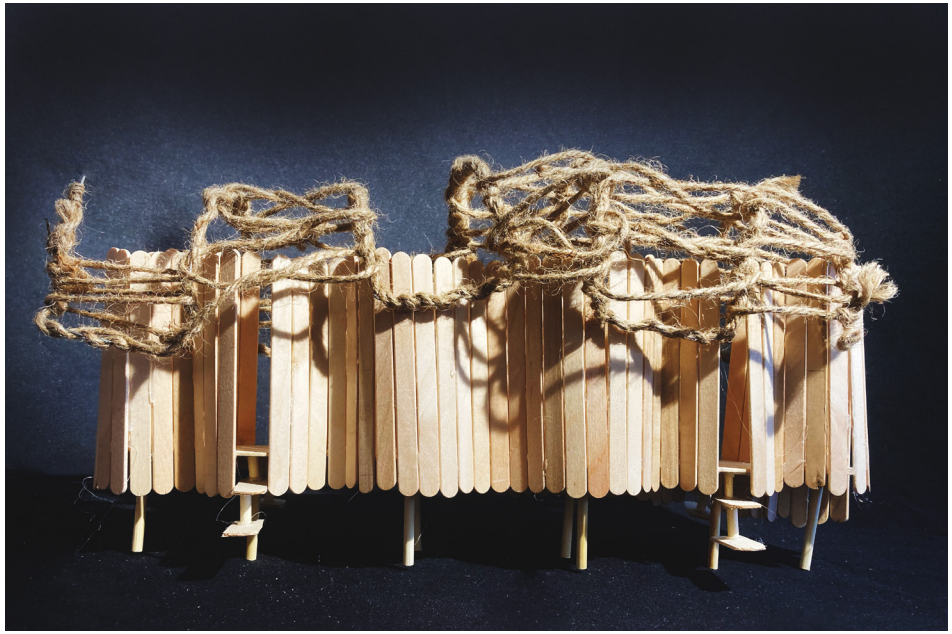
Iteration 3: Wall Segment Development
and Wall Ecology Drawings
Model Scale 1/2” = 1’-0”

From the previous iterations and material explorations, students are now focusing on one wall structure they design and continue to develop it further in material assemblies, responsiveness to the environment, and its function.

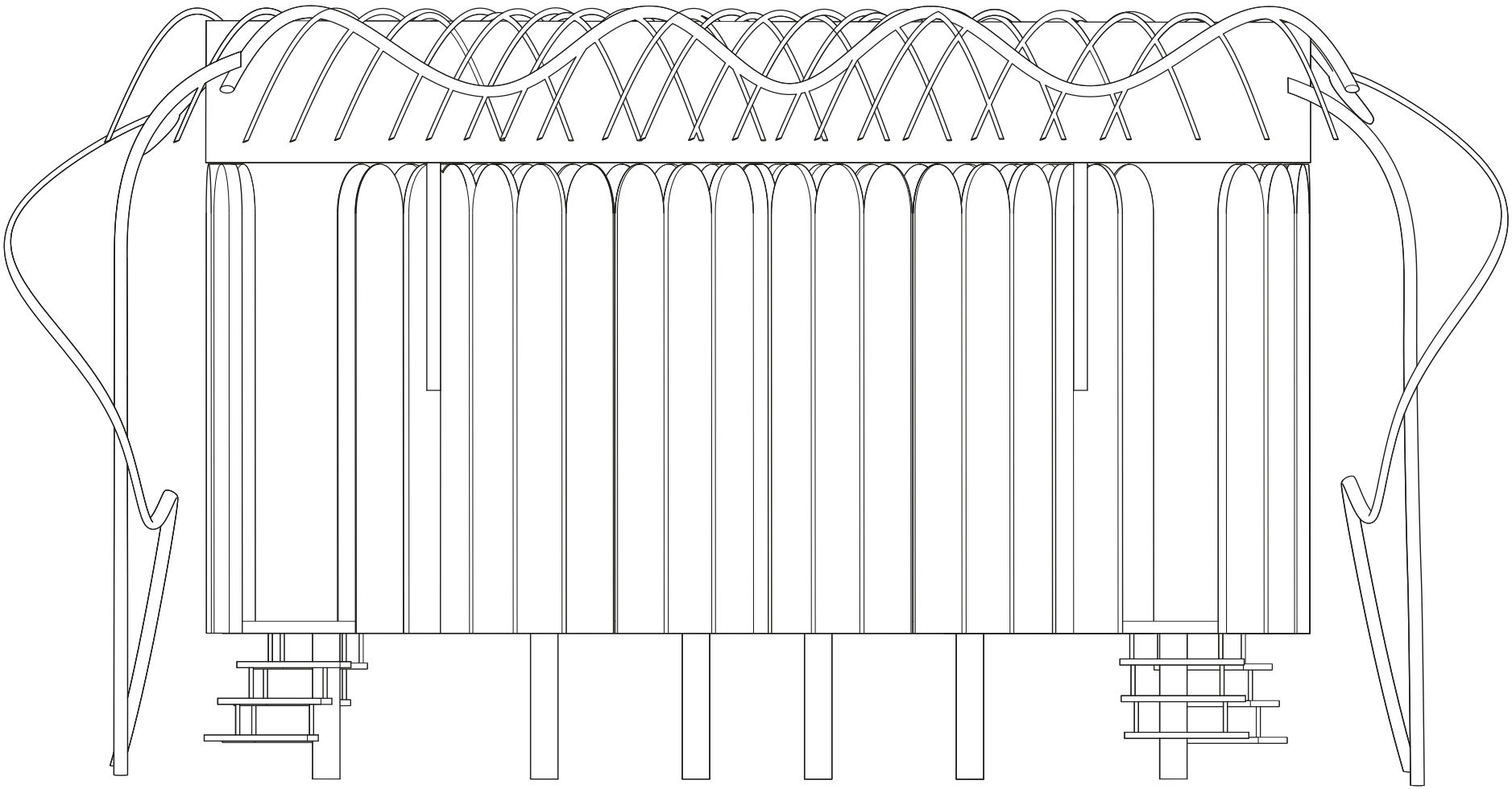
Iteration 3 - Development Model

Iteration 3 - Bird View

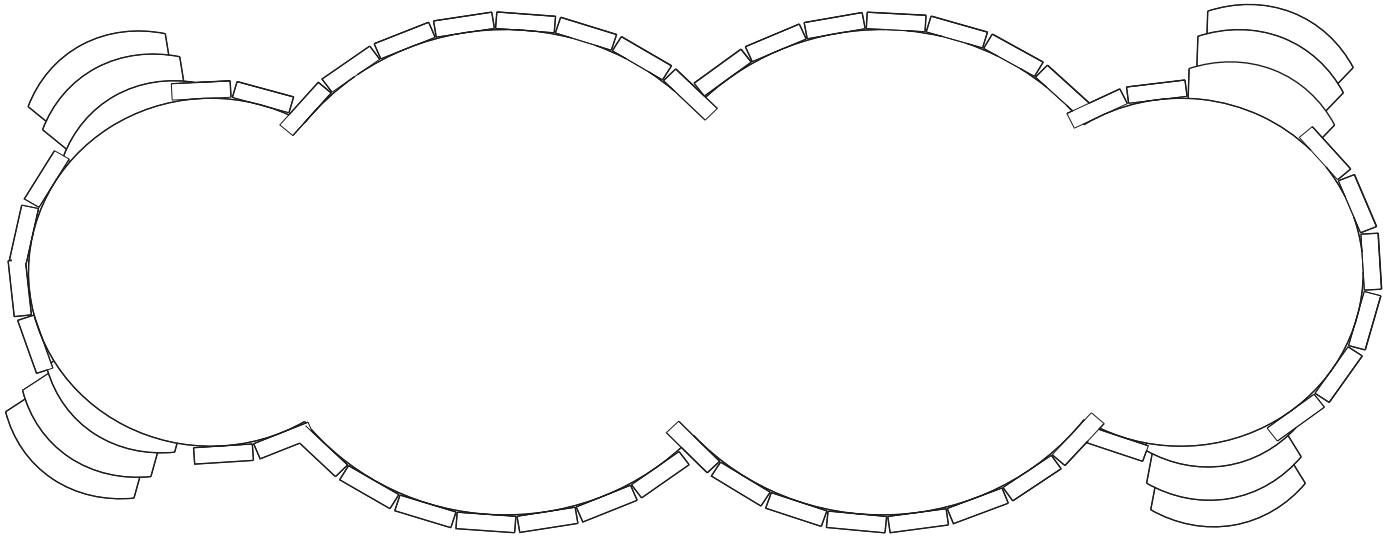
Iteration 3 - Side View (both Right and Left Views)



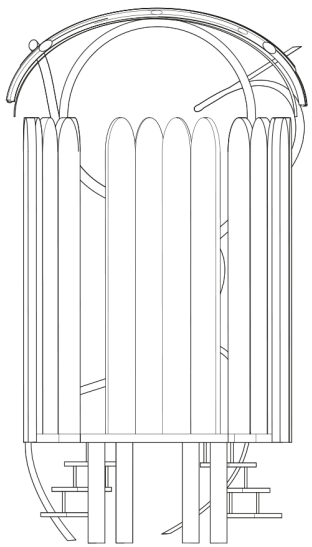
Iteration 3 - Front/Back View



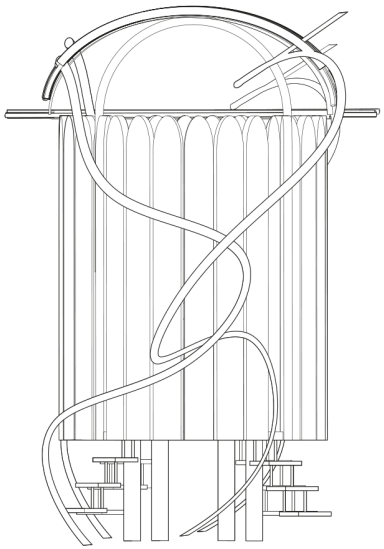
Wall Ecology Drawings - Front Section View



Plan Drawing



Right Side View Drawiing



Left Side View Drawing

Iteration 4: Wall Segment Development
and Process Drawings
Model Scale 3/4” = 1’-0”

The connection with adjacent models.

Iteration 4 - Final Model with its neighbors

Iteration 5 ShelterIn Wall
Model and Drawings
Model Scale 3/4” = 1’-0”

The final model of the wall presents the tectonic and stereotactic assembly methods and their function in the biome site we studied.

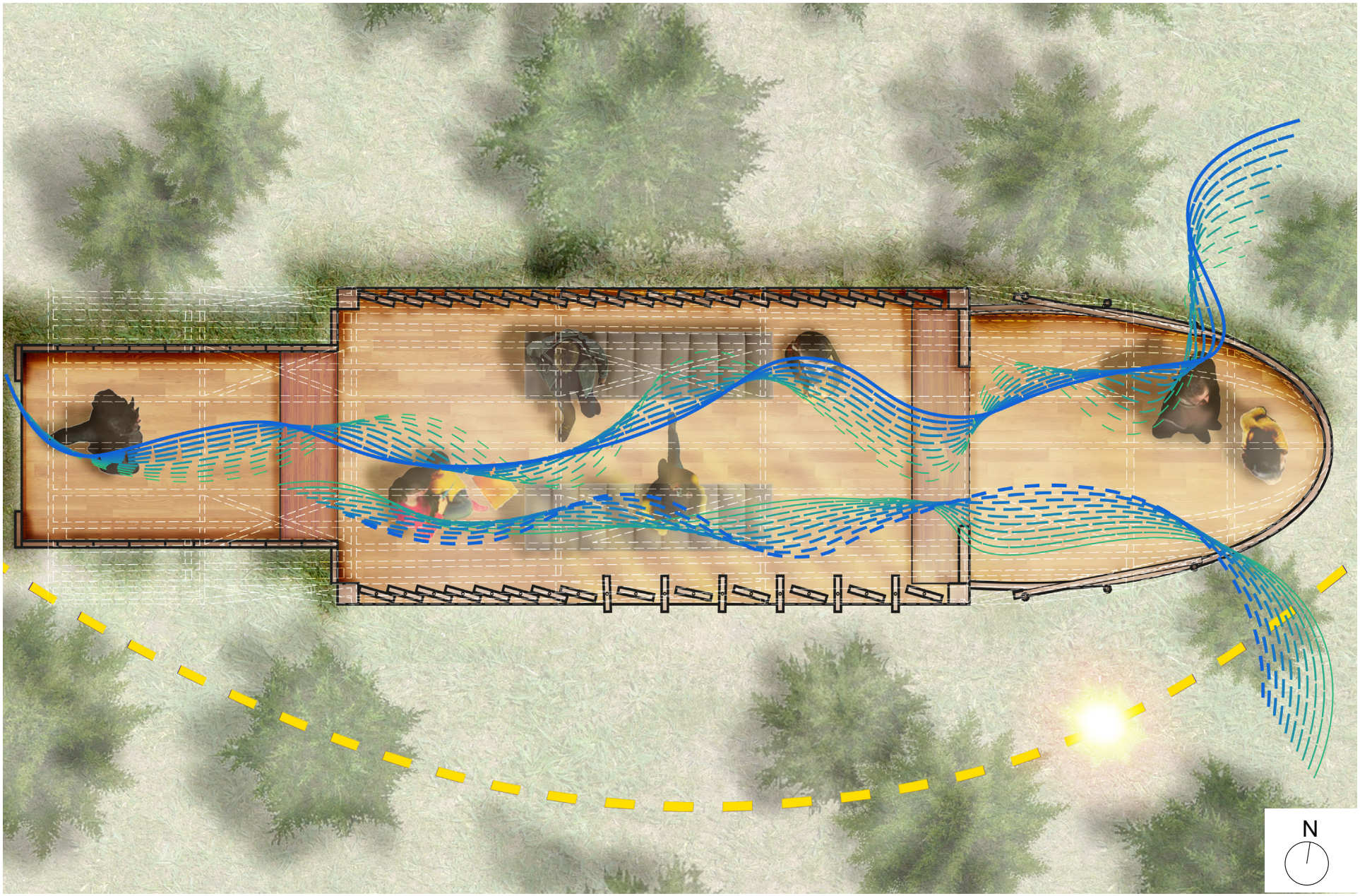
Iteration 5: Inner Perspective of the Model

Iteration 5 - Left Side View of the Model

Iteration 5 - Right Side View of the Model

Iteration Model 5 - Front /Back View of the Model

Iteration 5 - General View



0 2 4 8ft

Drawings - Sunpath & Wind Path on Plan

0 2 4 8ft

3/4 inch = 1 ft

Drawings - Human & Animal Rest Area on Section

0 2 4 8ft

Drawings - Inner Perspective

0 2 4 8ft

Drawings -Outer Perspective