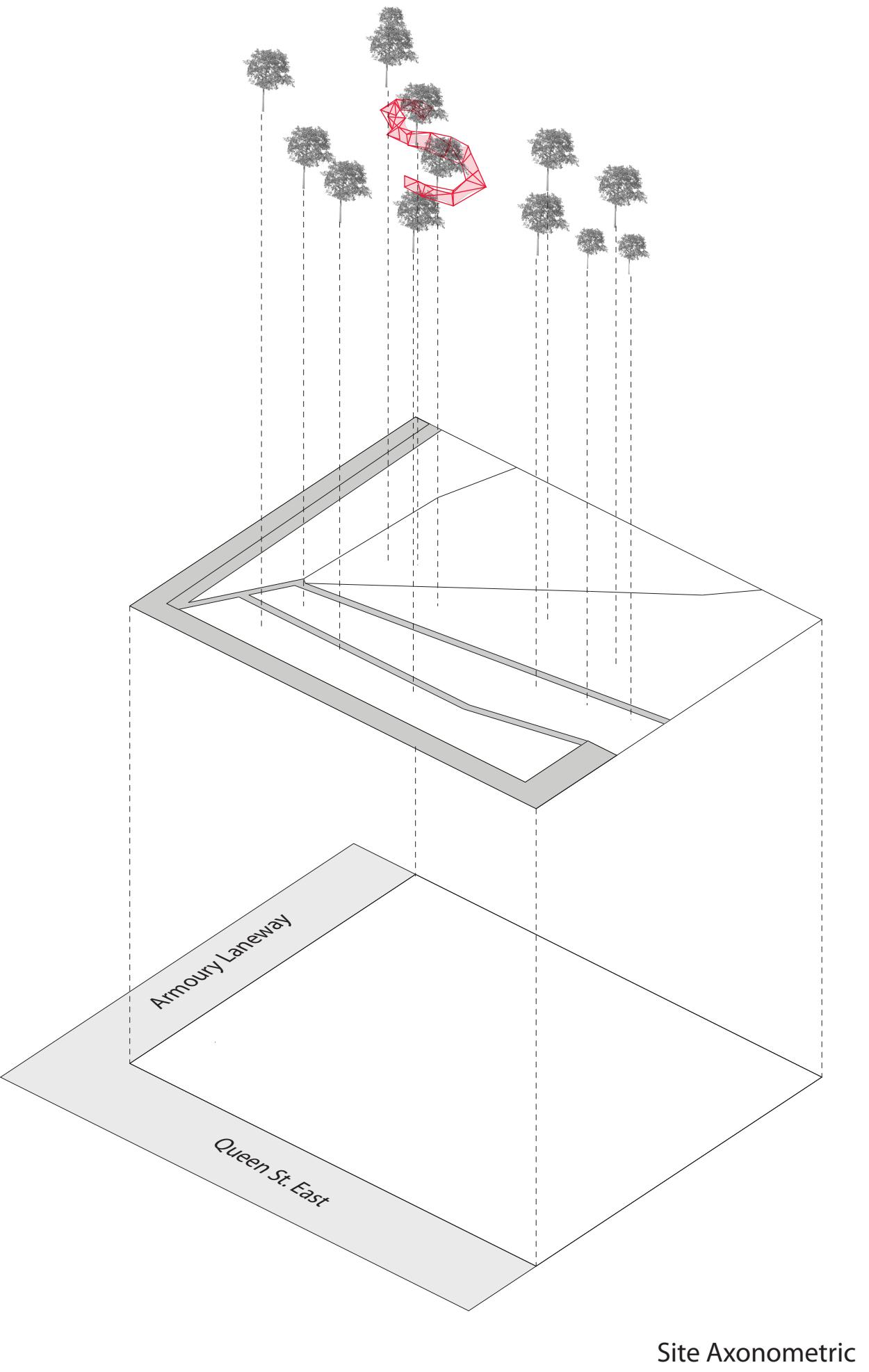
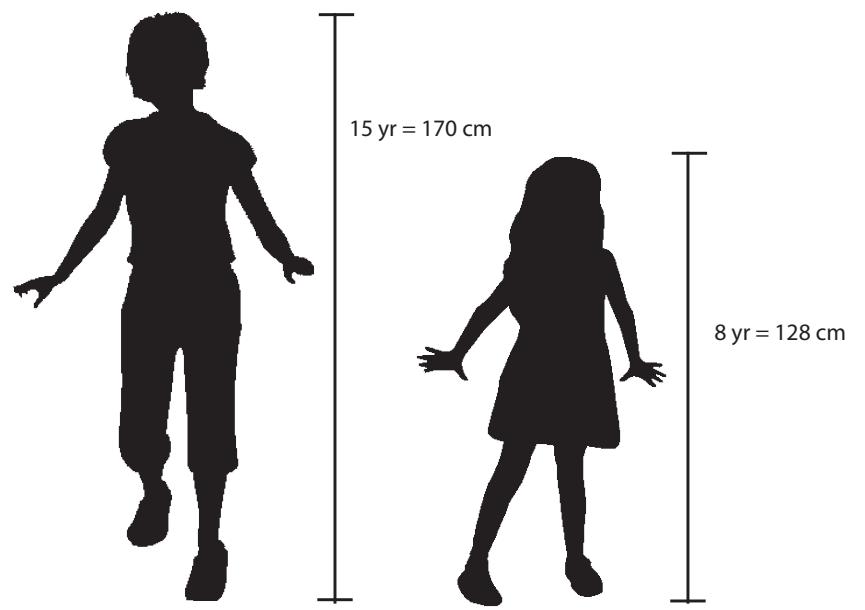
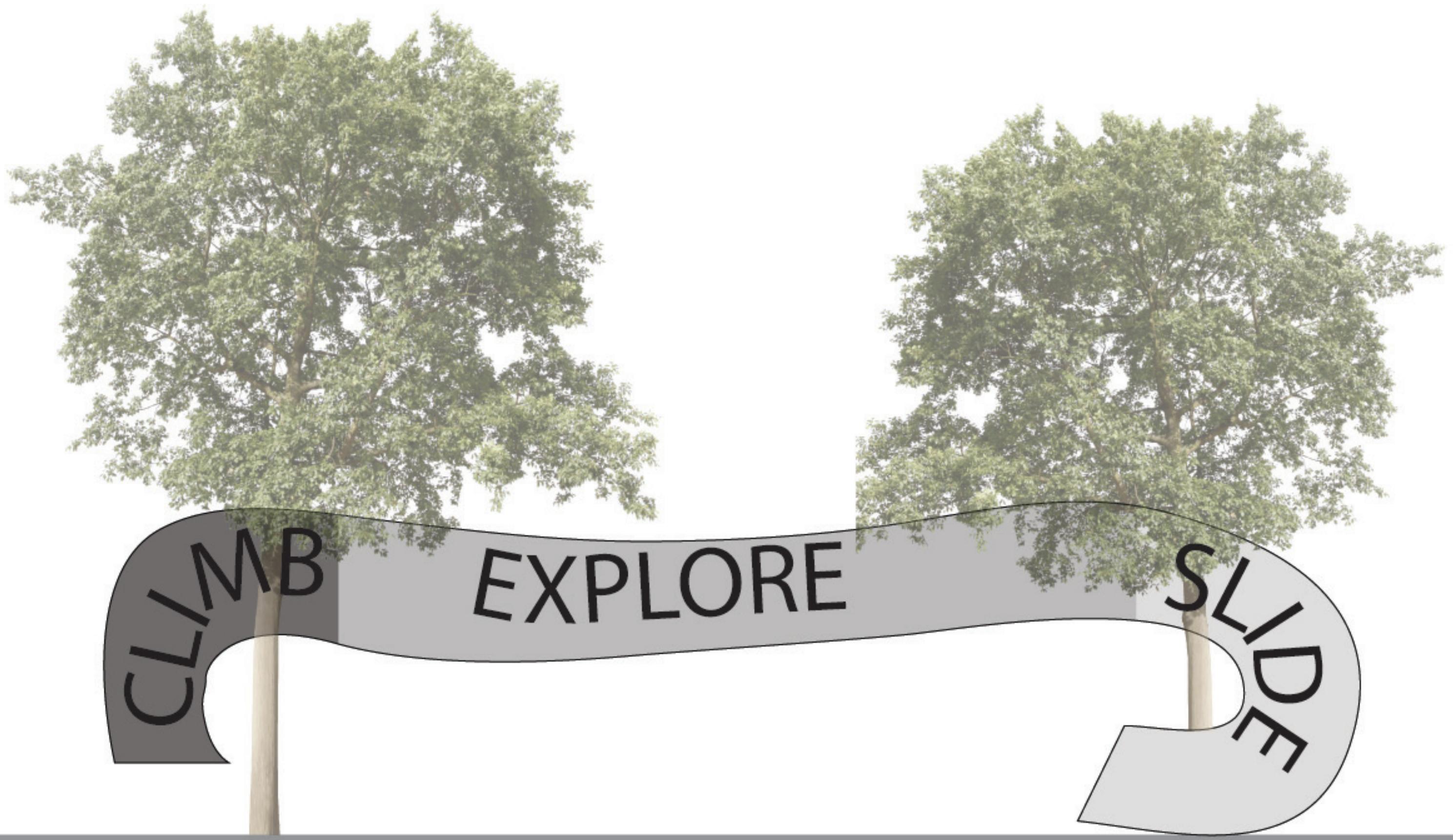


Pop-Up 2.0:

## A Playground For Moss Park

by: Elizabeth Nenniger  
and Laura Austin





Parti Diagram



Site Render



Fall Render



Summer Render



Night Render

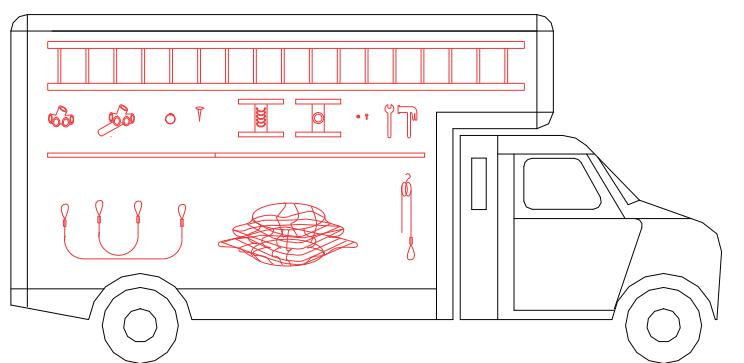
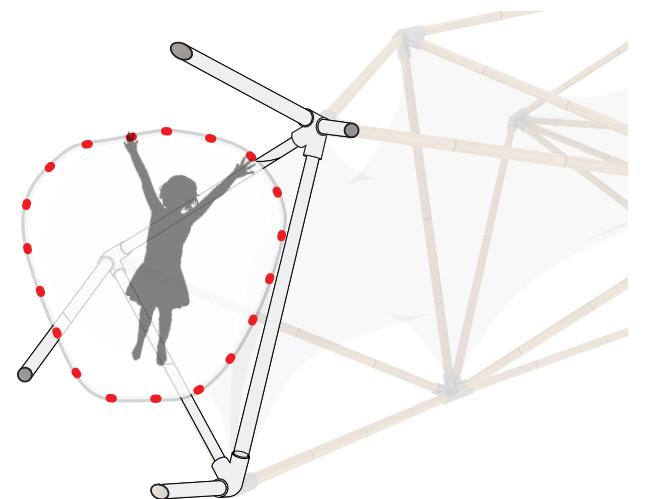
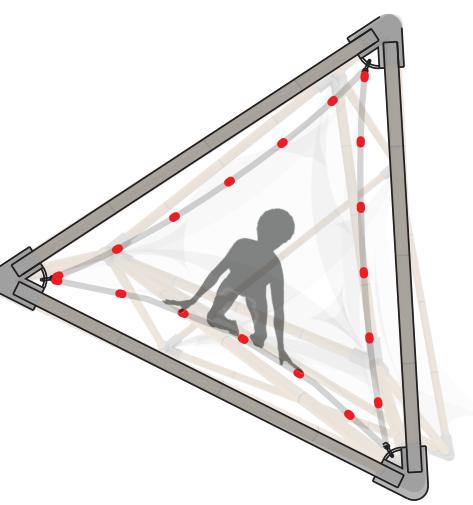
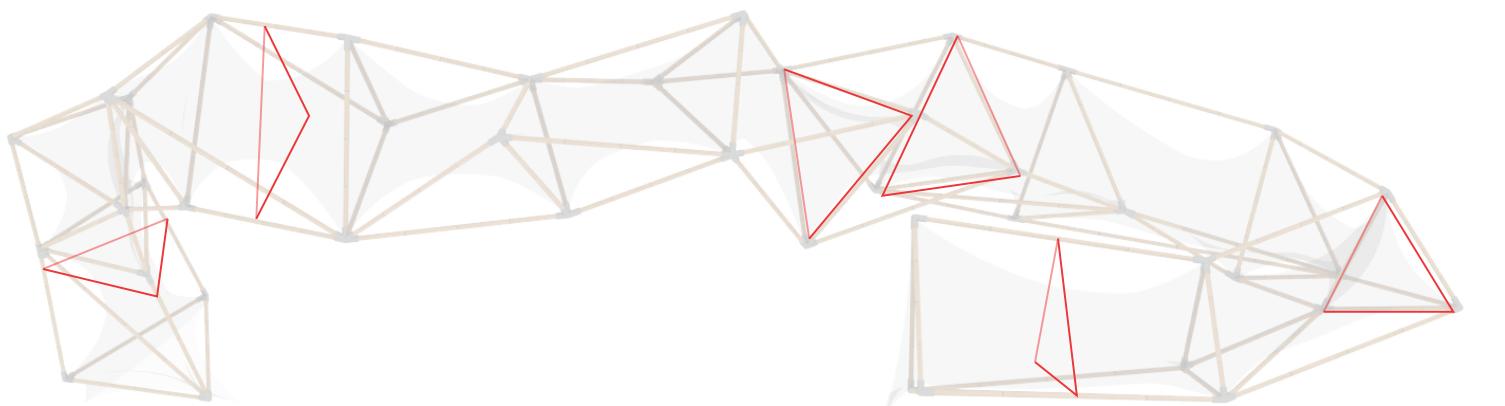


Climb Render

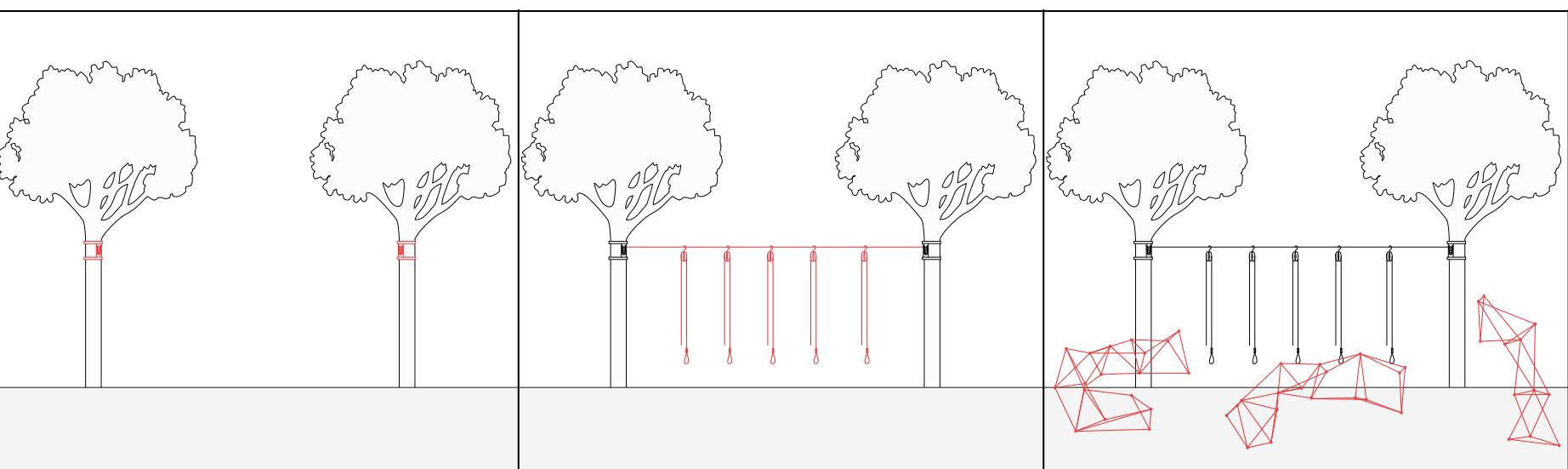


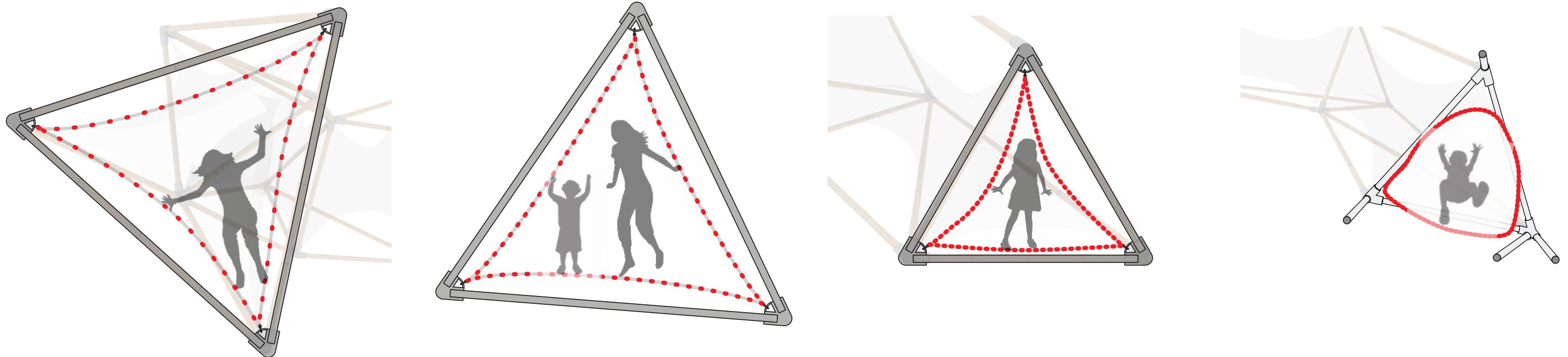
Explore Render





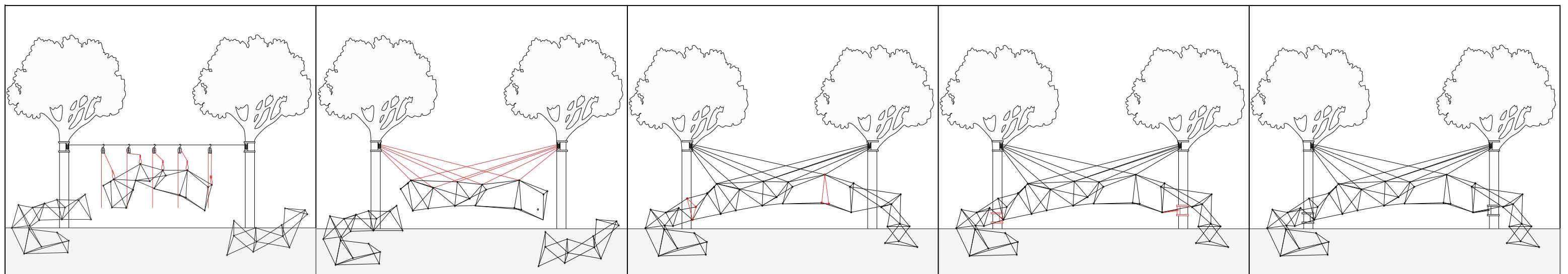
Standard 10' Truck Size



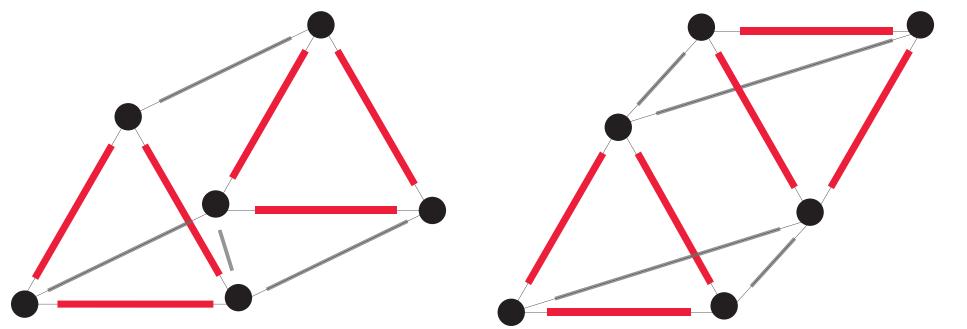


1:25

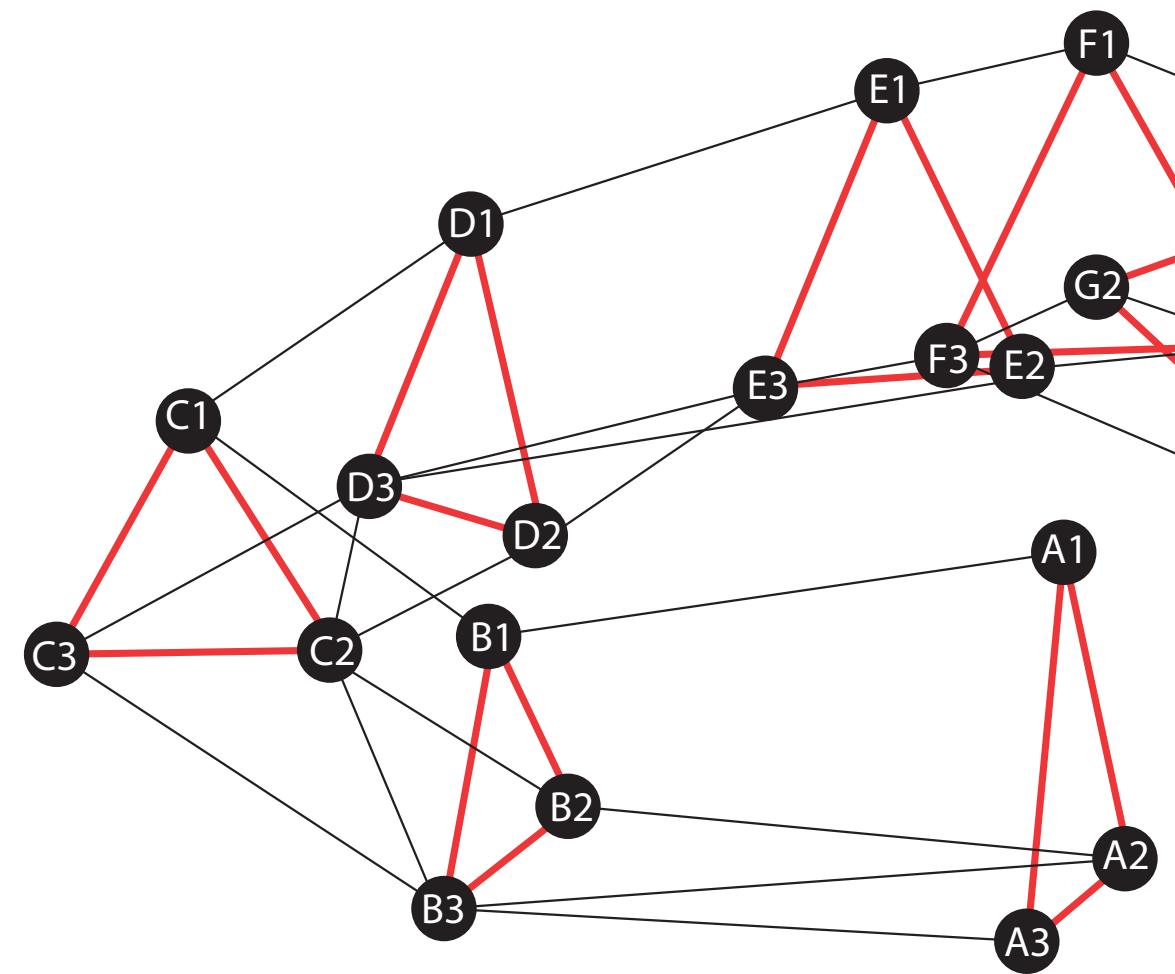
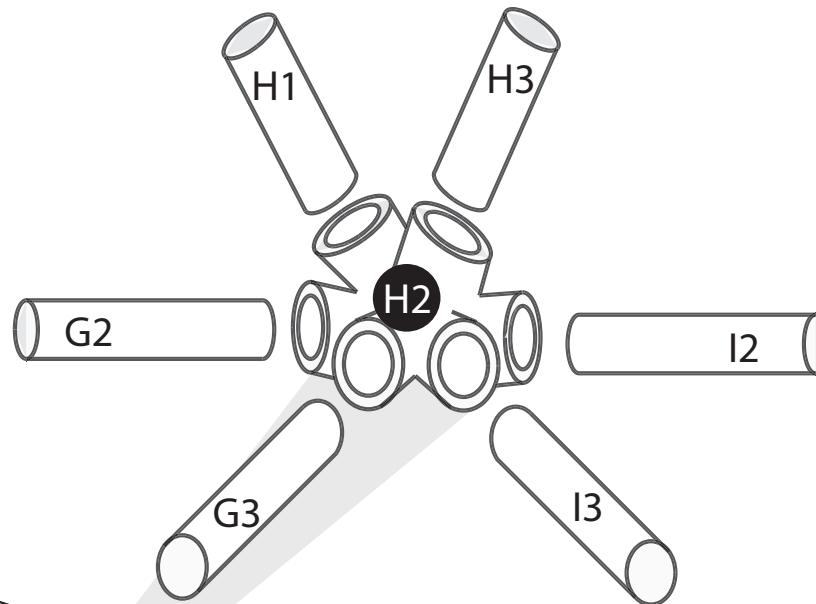
Sectional Series



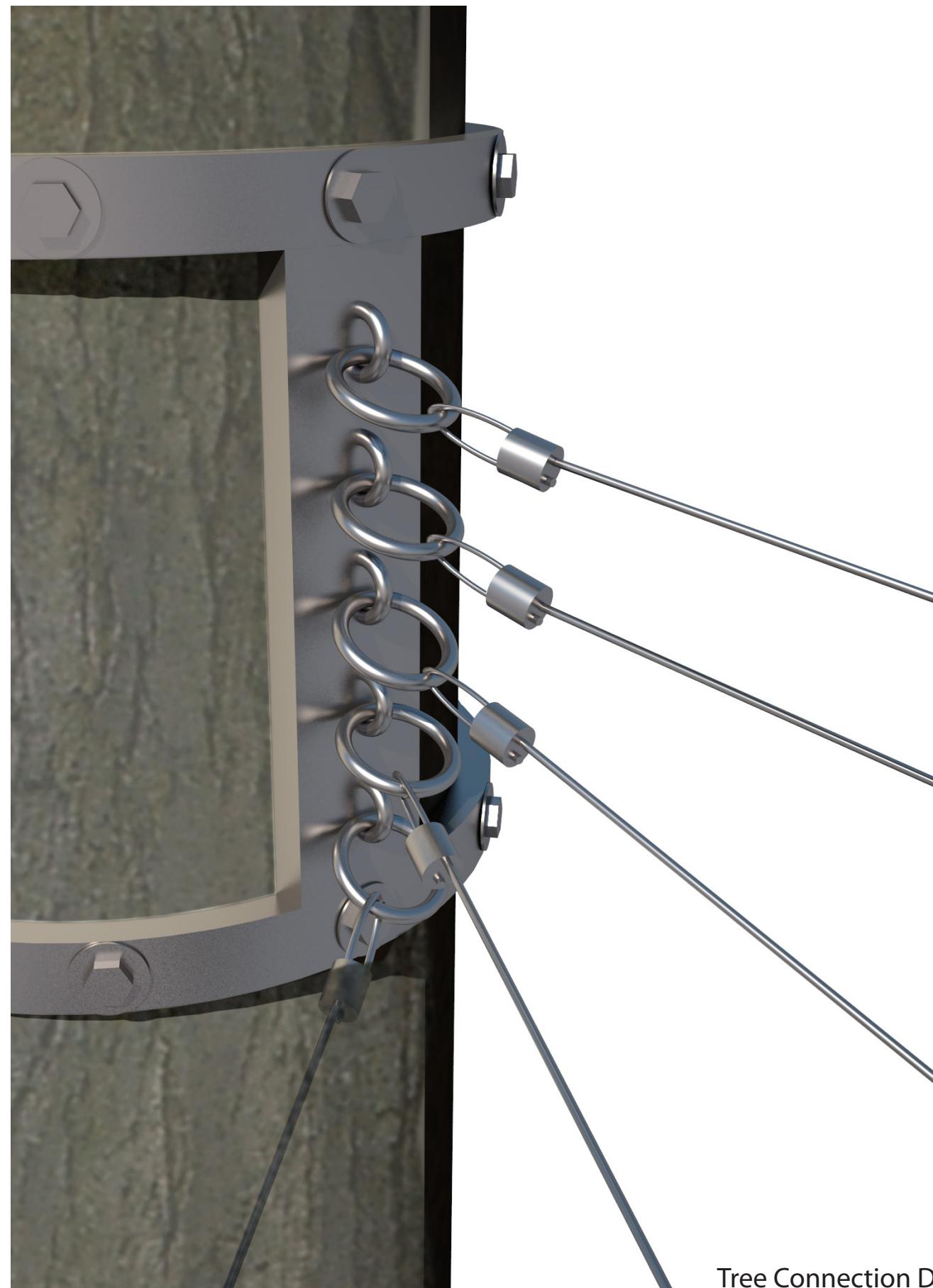
Views of Assembly



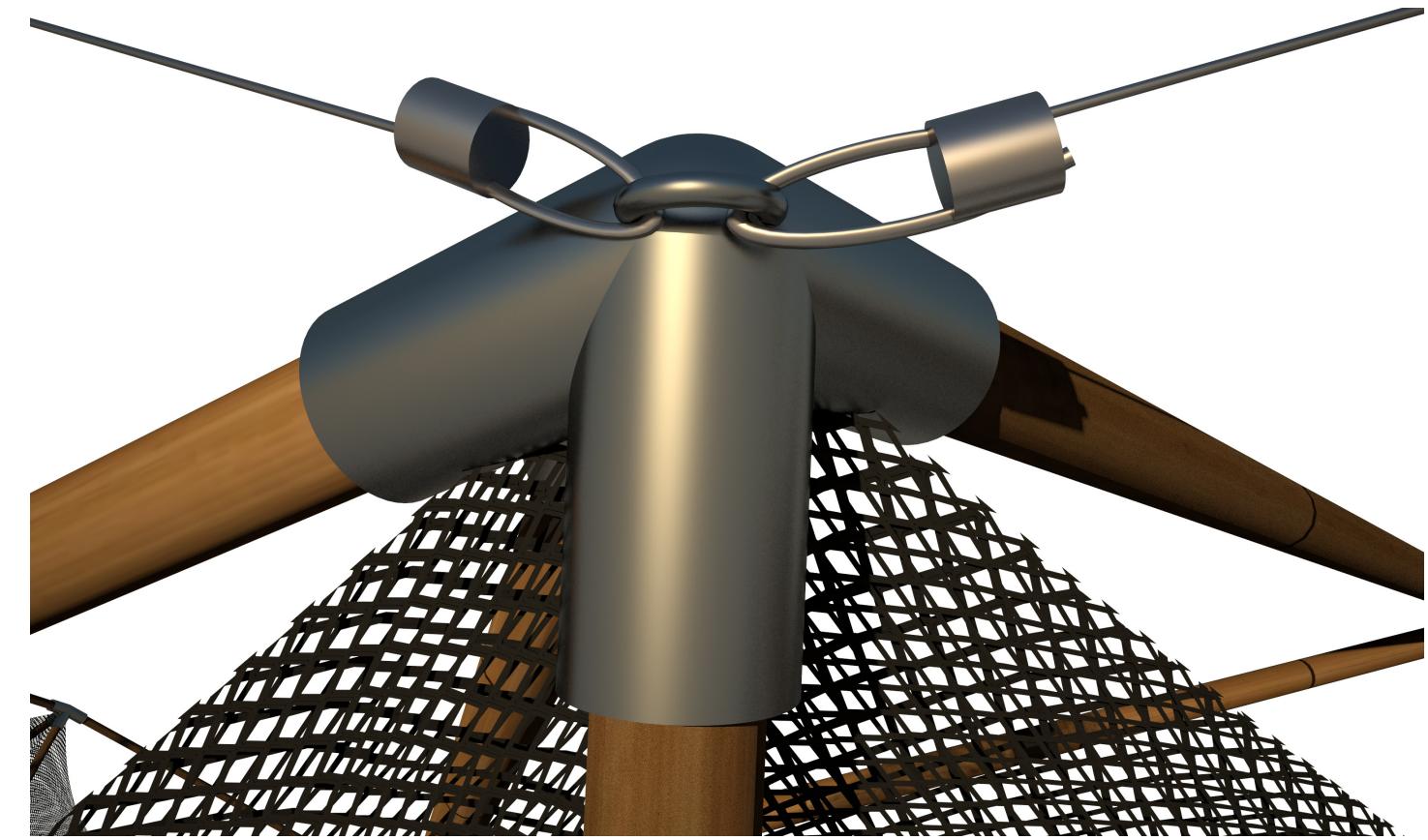
Connection Types



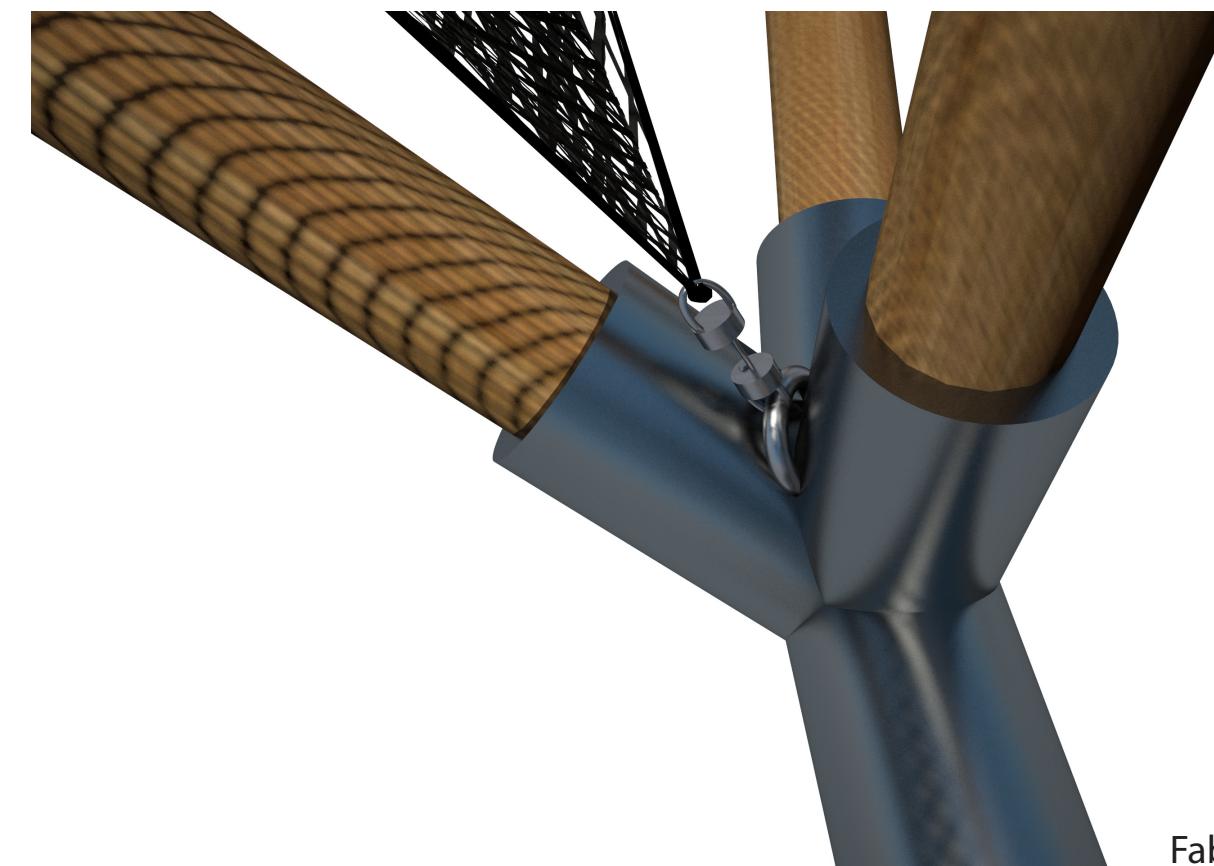
Structural Assembly Diagram



Tree Connection Detail

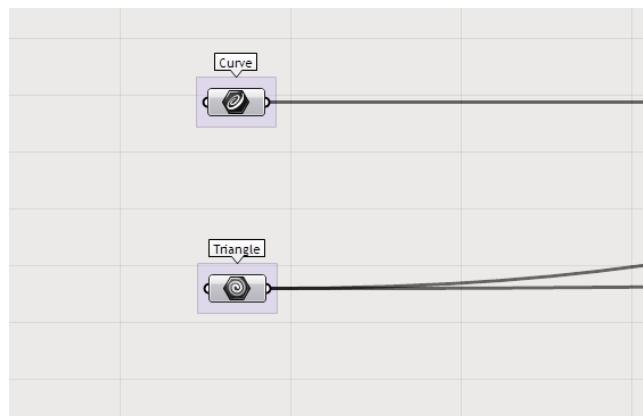
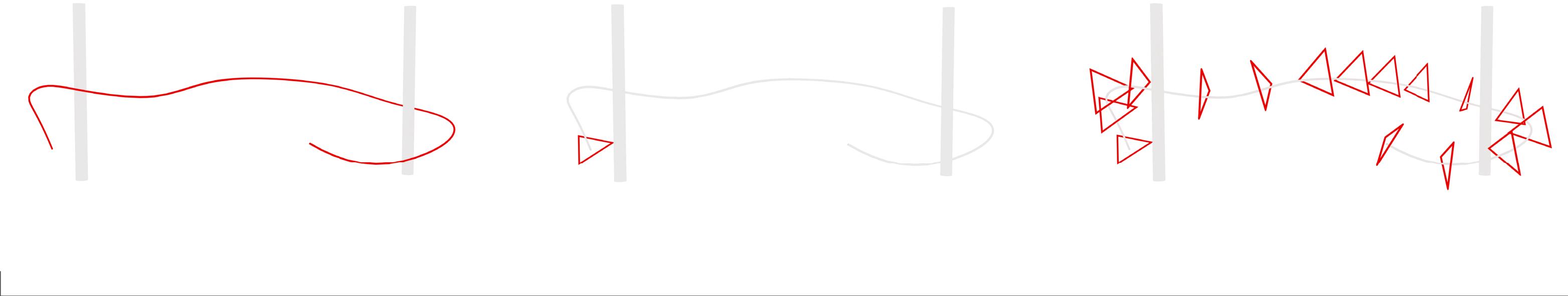


Joint to Tension Cable Connection Detail

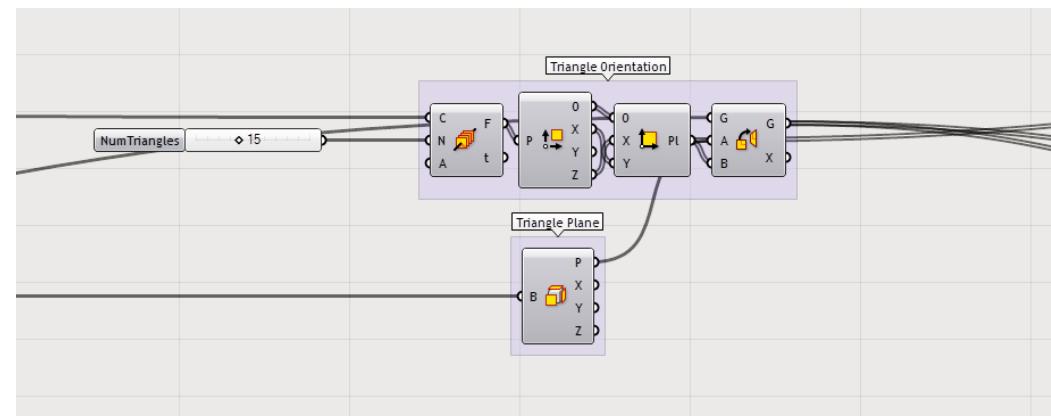


Fabric Connection Detail

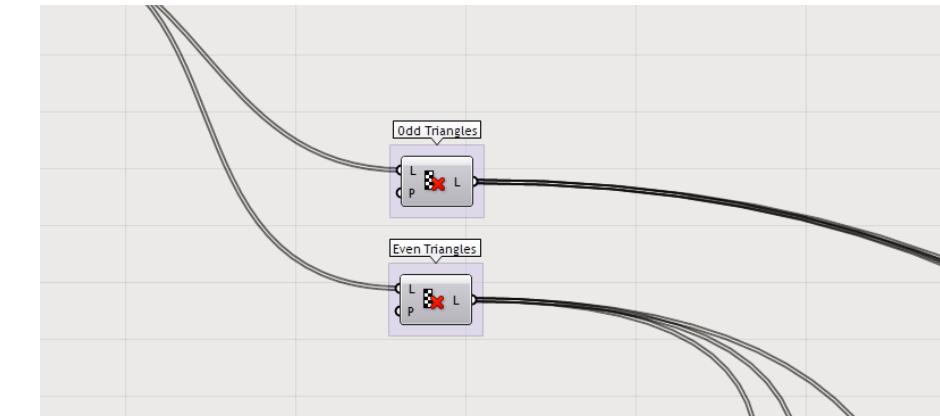
## Computational Logic:



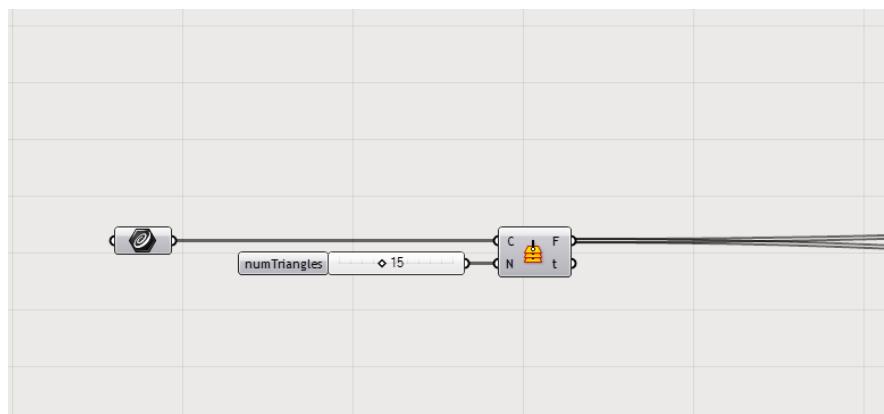
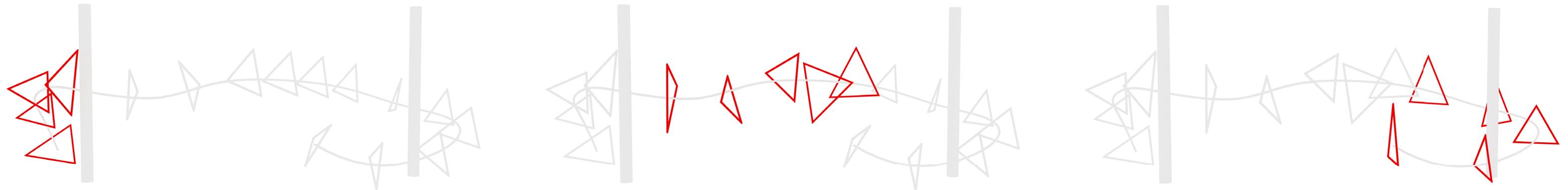
Select curve  
Select triangle



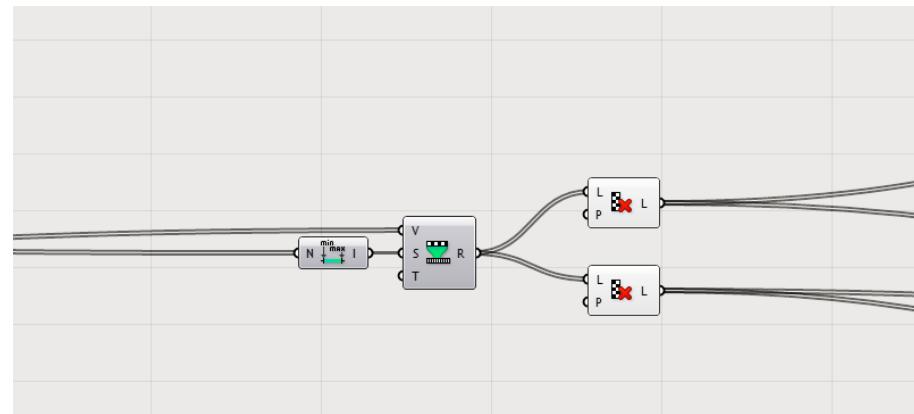
Divide curve into segments  
Create and orient planes at each division point  
Array triangles along curve based on segments & planes



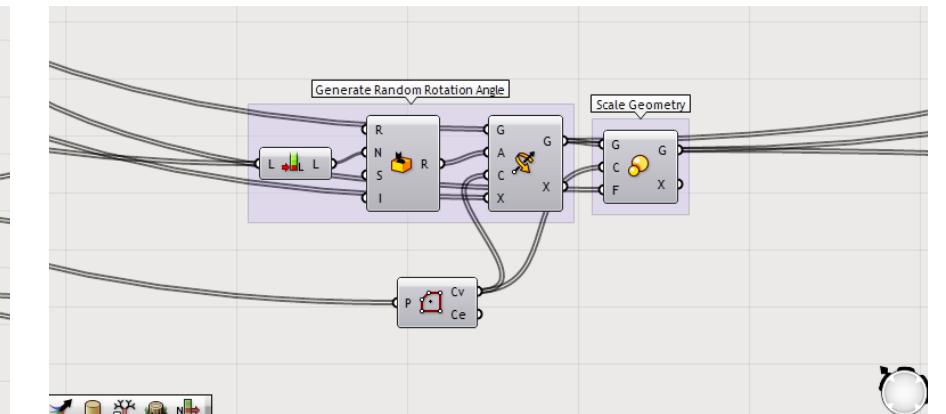
Isolate alternating triangles into separate lists



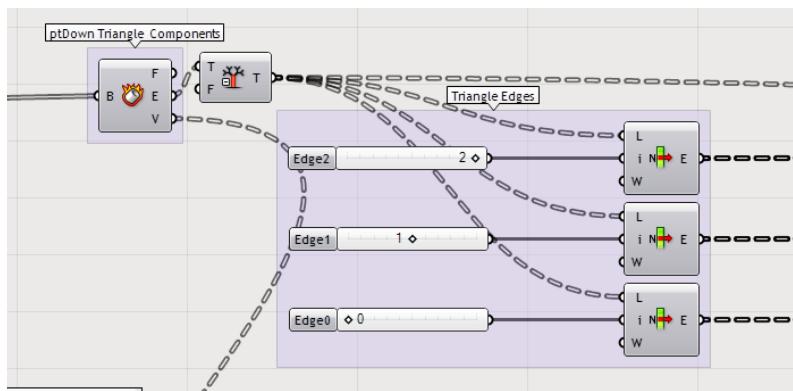
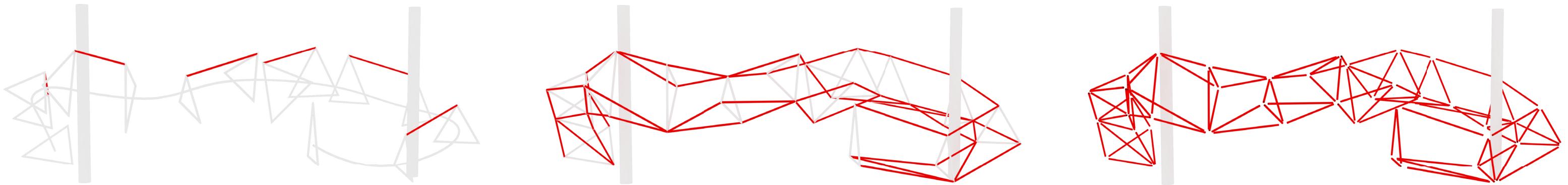
Align the orientation plane **horizontally** along the axis for the slide & climb zones



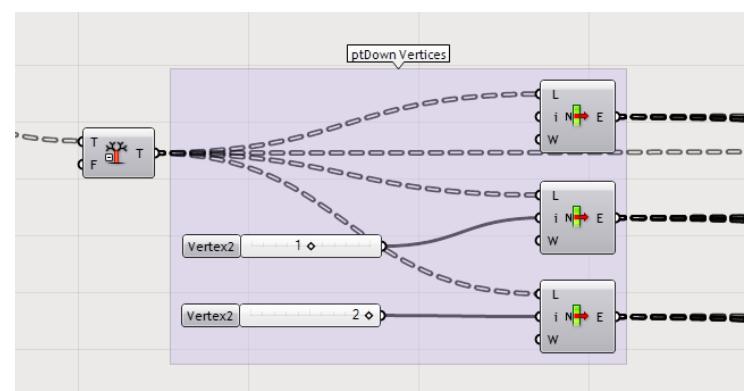
Isolate the **climb**, **explore** and **slide** zones  
Set a **max** and **min** for the scale size and rotation angle



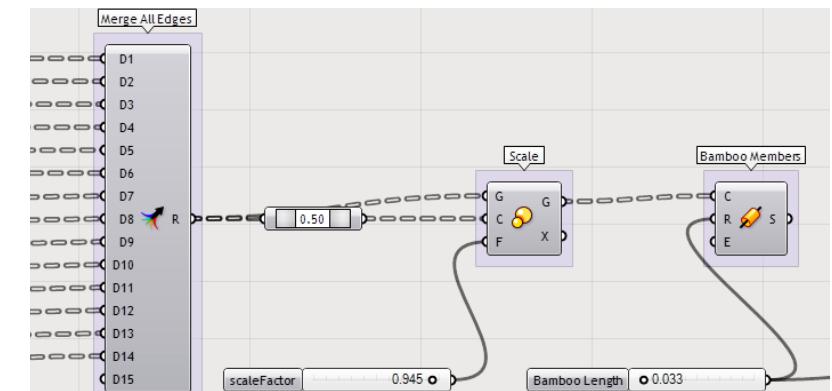
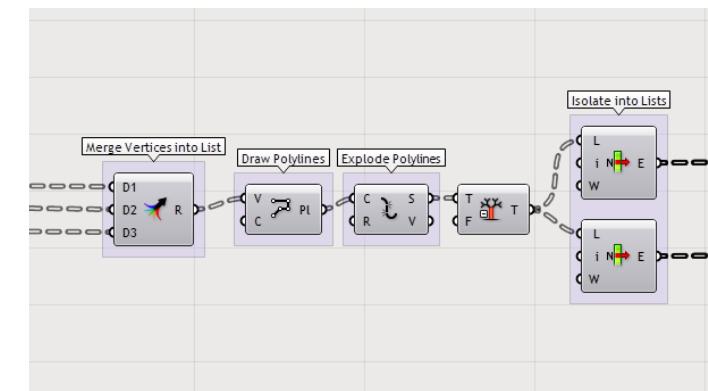
Adjust the **size** and **rotation** of the triangles



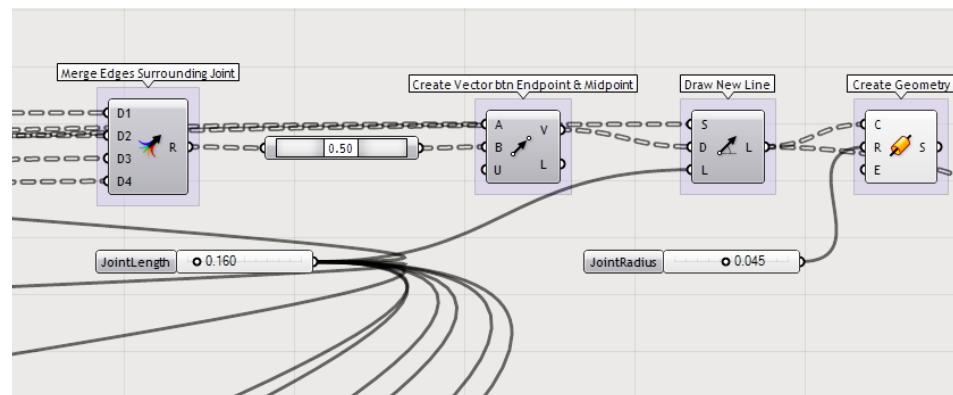
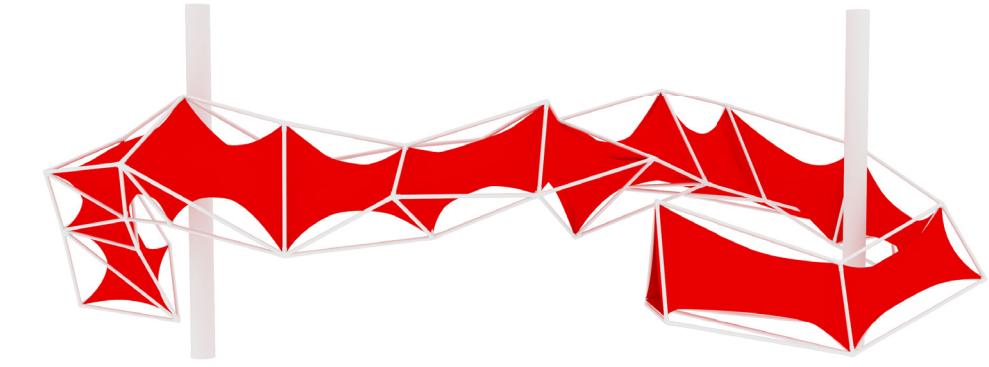
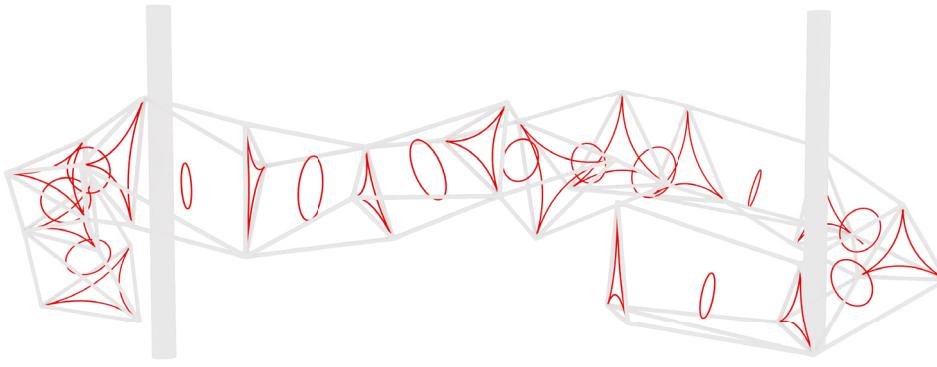
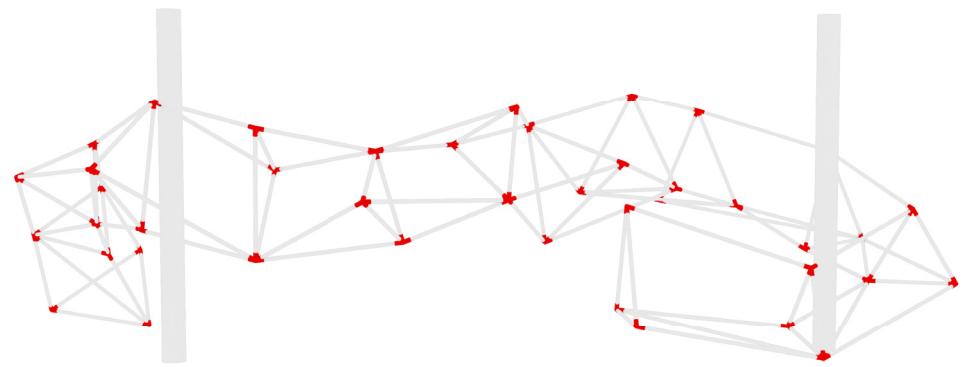
Separate consecutive triangles into two lists  
Decompose triangles into edges, vertices and faces



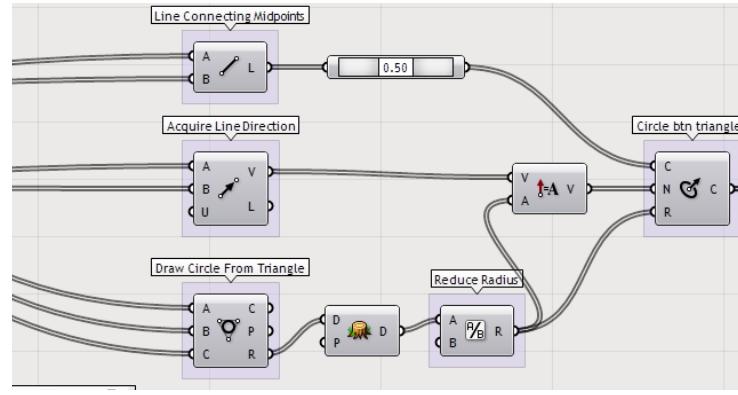
Merge the vertices that will be connected into a list  
Draw a polyline connecting the vertices  
Explode the polyline and organize the lines into lists according to index



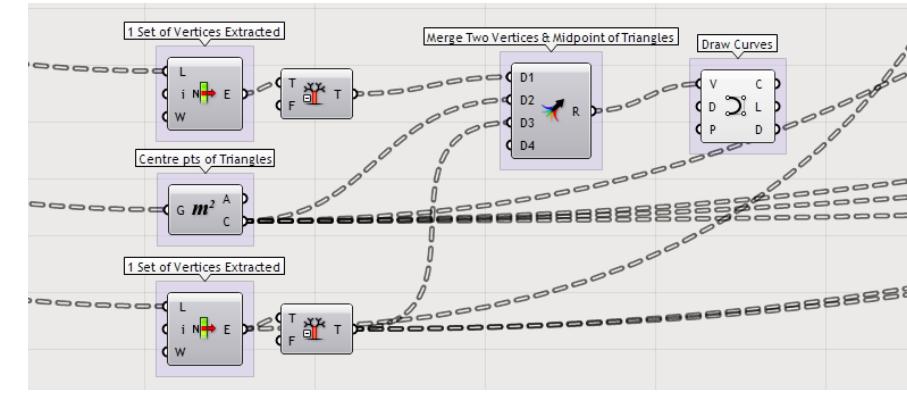
Merge all triangle edges and connections into a list  
Scale the lines down with the midpoint as the origin  
Pipe the list of curves



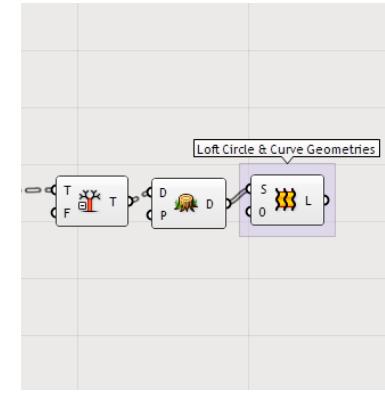
Merge all lines that converge at a vertex  
 Find **midpoints** of each line  
 Get the **direction** of the line  
 Redraw the line at a set size with the origin at the vertex  
 Pipe the curves



Get centre point of triangles  
 Draw a line from the centre point of a triangle to the one following it  
 Get the midpoint and direction of the line  
 Draw a **circle** at the midpoint of the line with a radius related to the size of the triangle

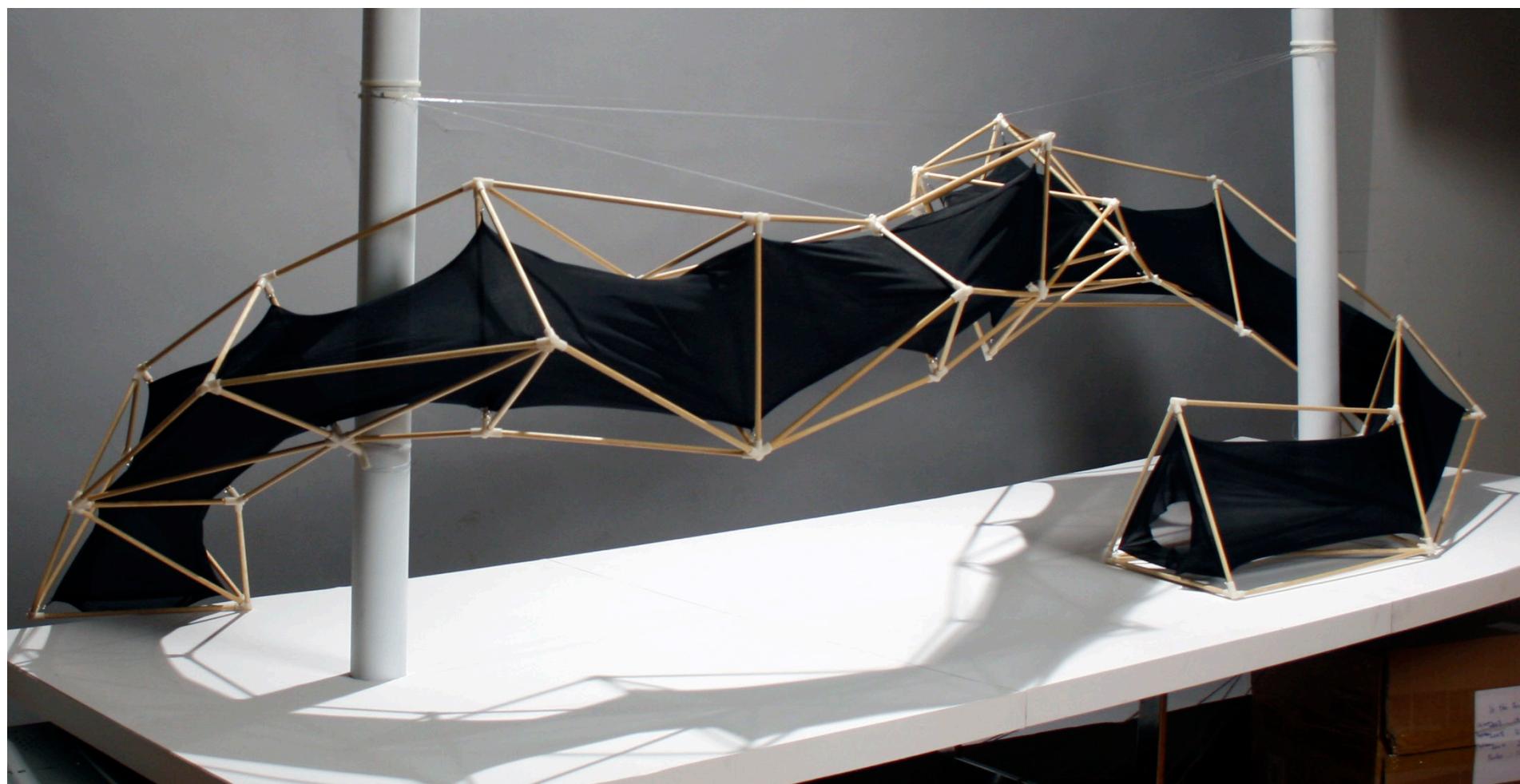
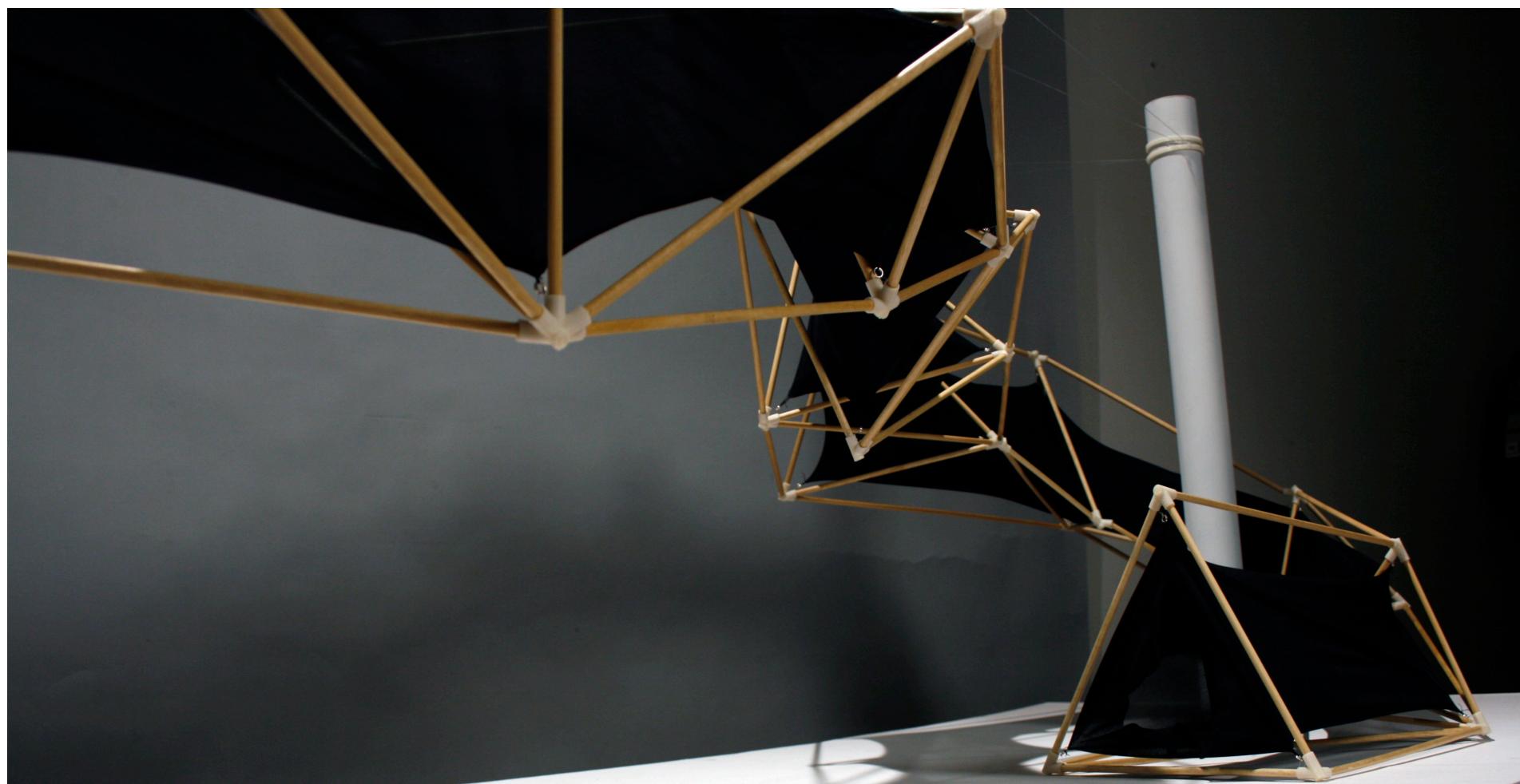


Merge two vertices and the centre point of the triangle into a list  
 Draw a **curve** based on these 3 points, using the midpoint as the second input  
 Continue for each combination of vertices  
 Join the curves into a **closed curve**



Loft the **closed curve** geometries with the circle geometries to create the fabric





Model Photographs