

SERPENTINE PAVILION 2017

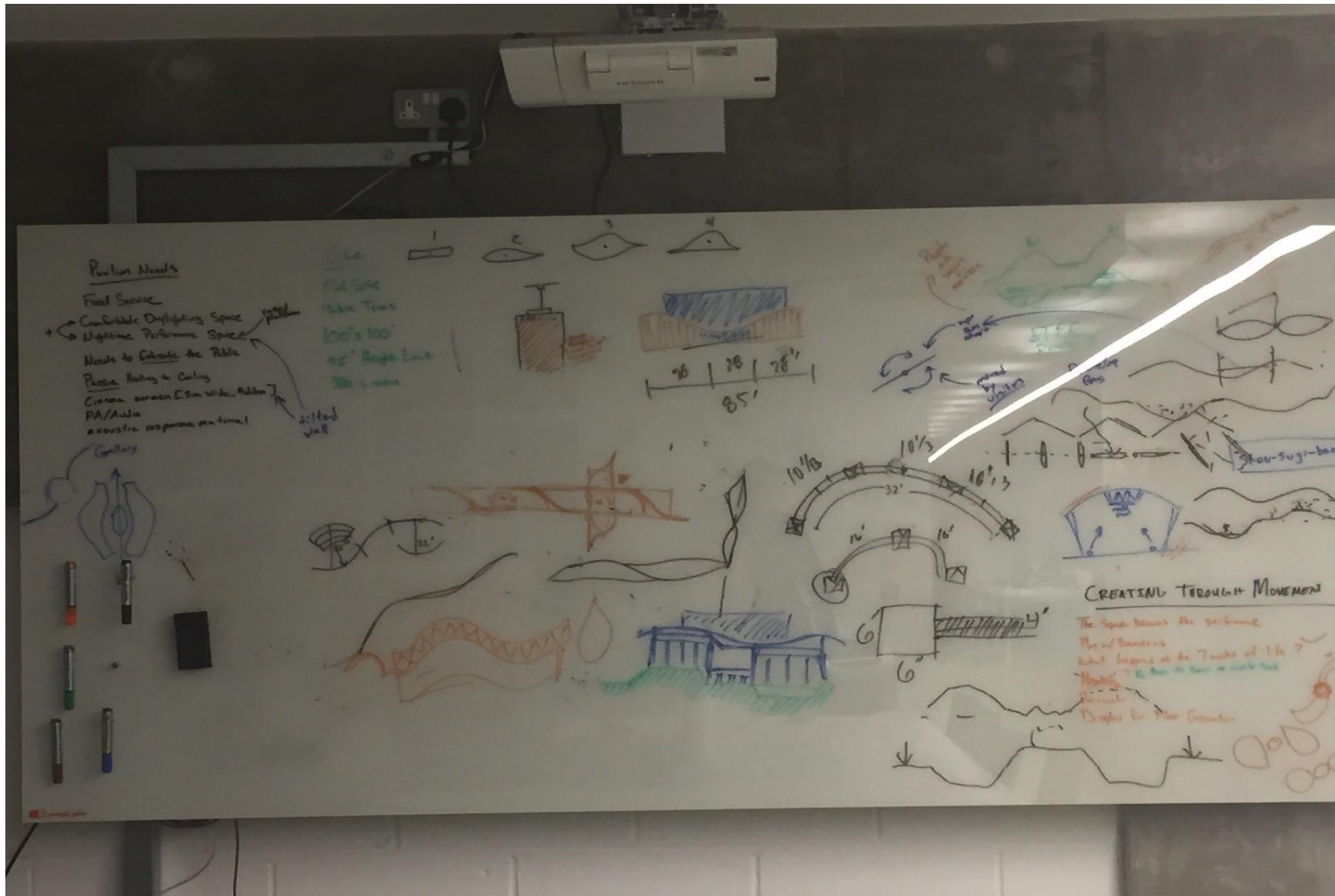
**BUILD
YOUR OWN
PAVILION**



CONCEPT

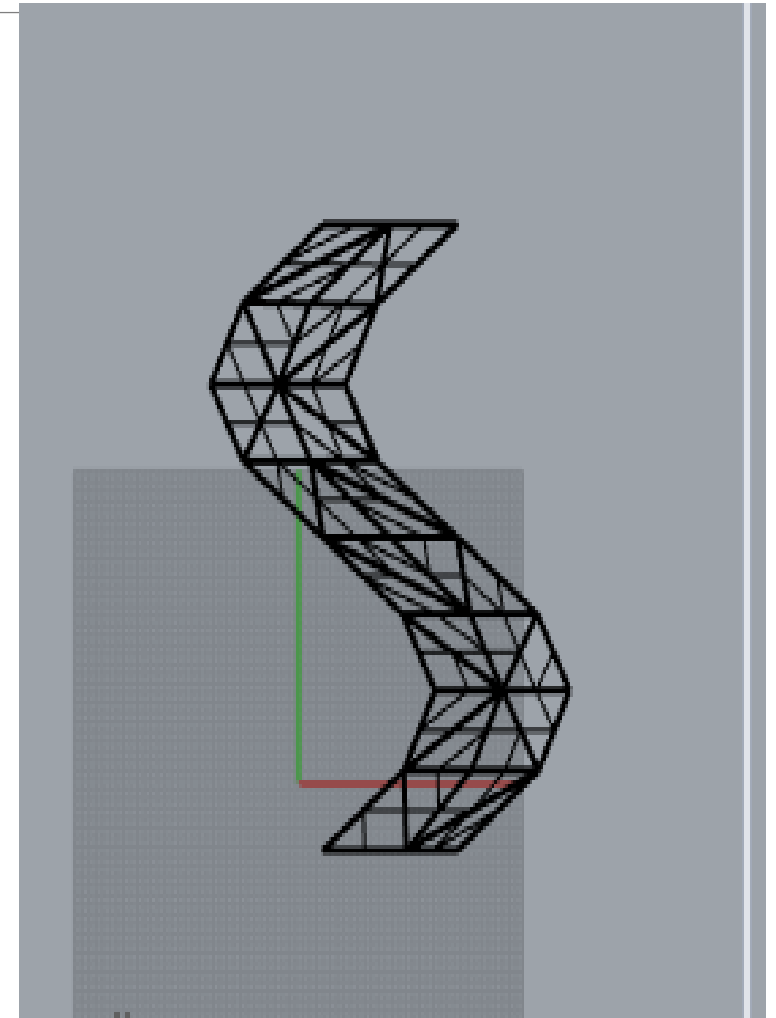
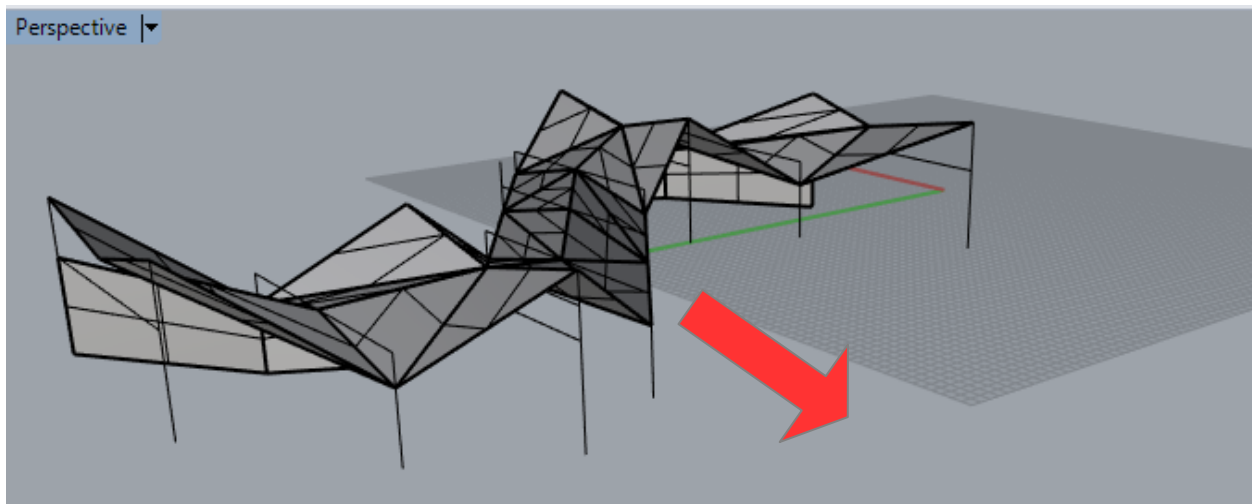
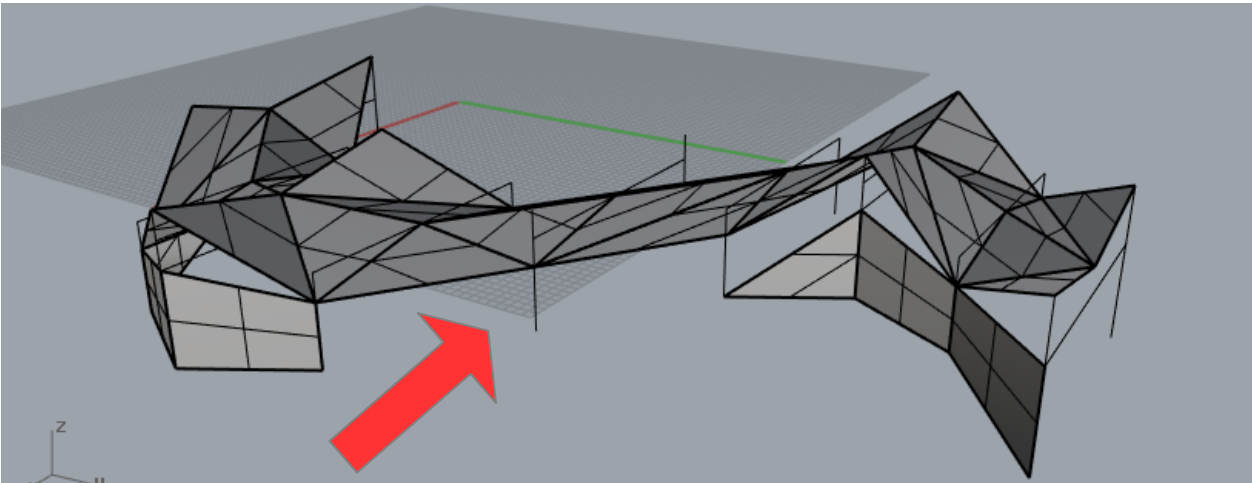
PEOPLE ARE THE SENSORS AND THE
ACTUATORS

Inspiration / Analysis

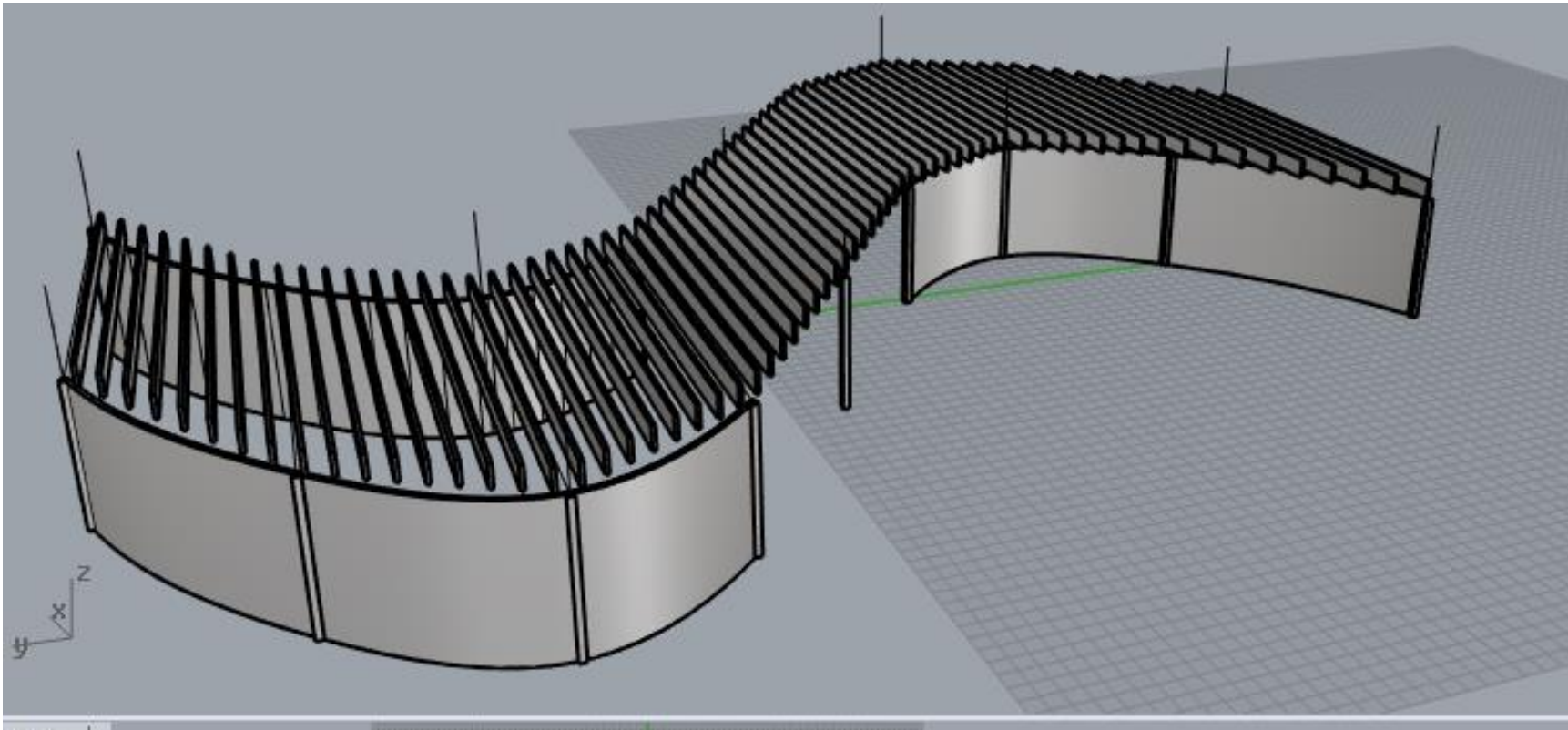


Concept Diagrams

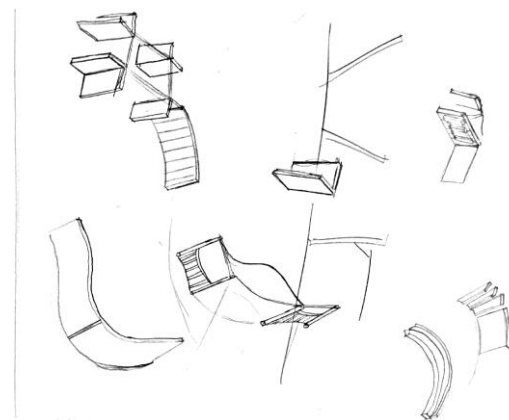
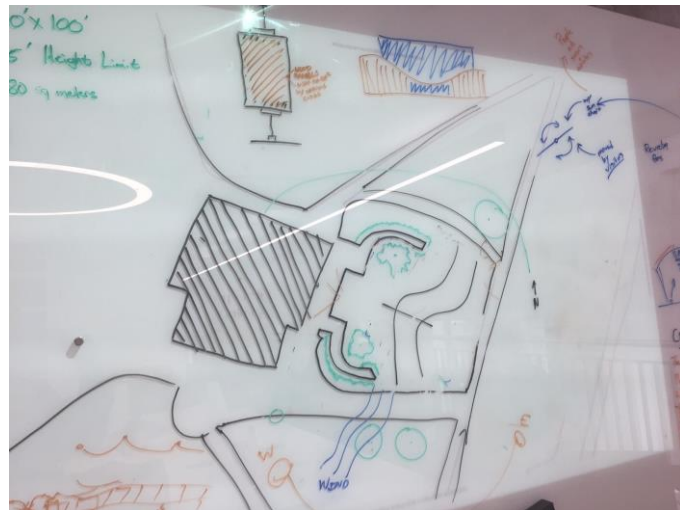
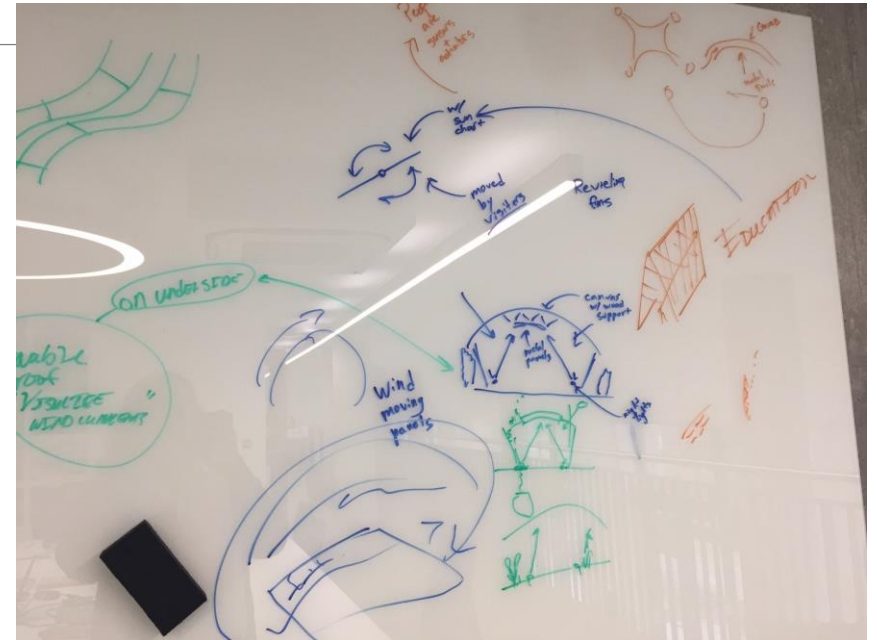
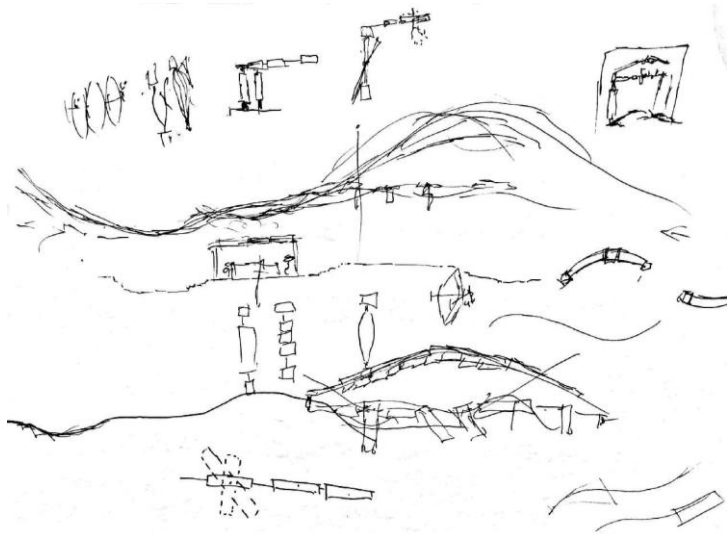
- Use and monitor this space to show benefits of using these passive methods and technology.



Interior Pedestrian Shell



Process Diagrams



Systems and Details

FSC – Timber

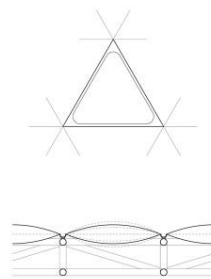
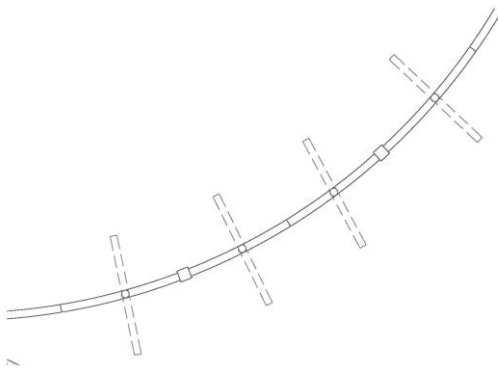
ETFE Panels

Permeable Pavers

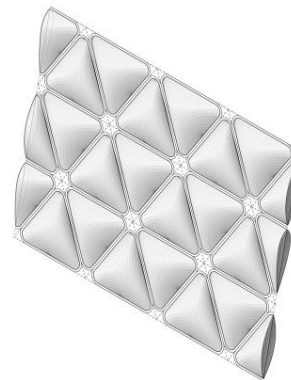
Pavegen

Rain water management (grow food on site)

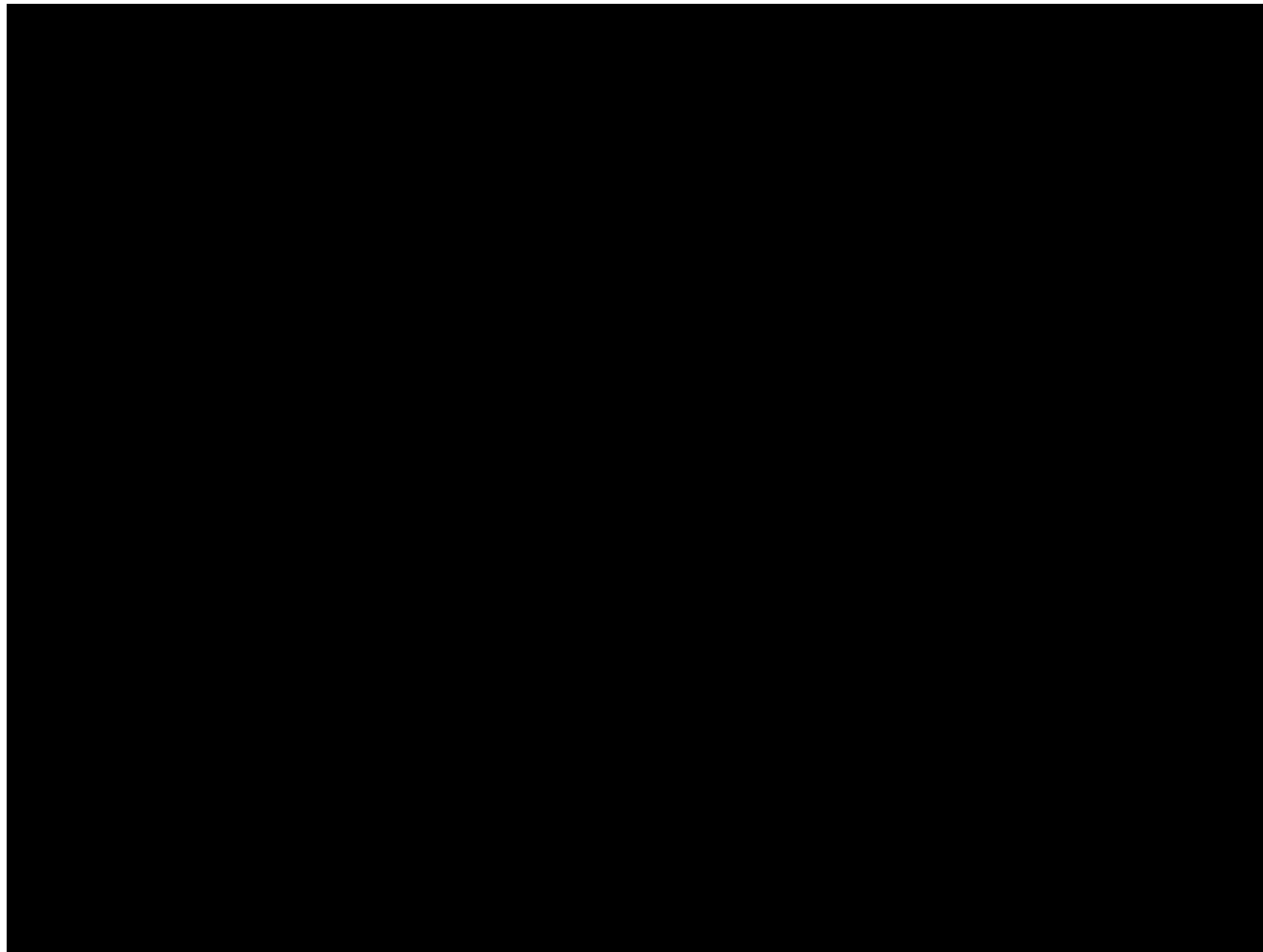
Rotating wall panels (lockable)

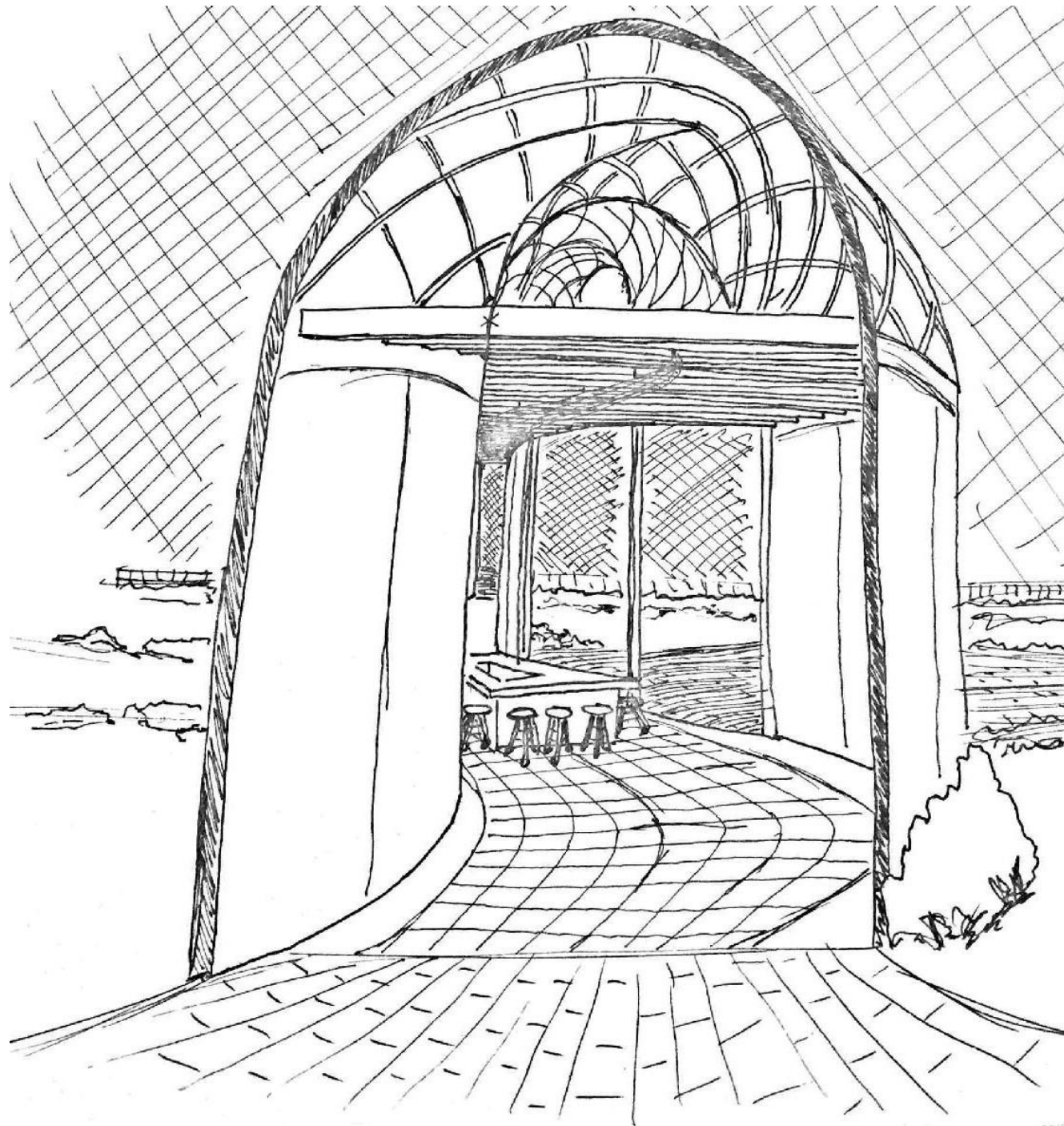


Tri-grid Pillows
ETFE Panel Options

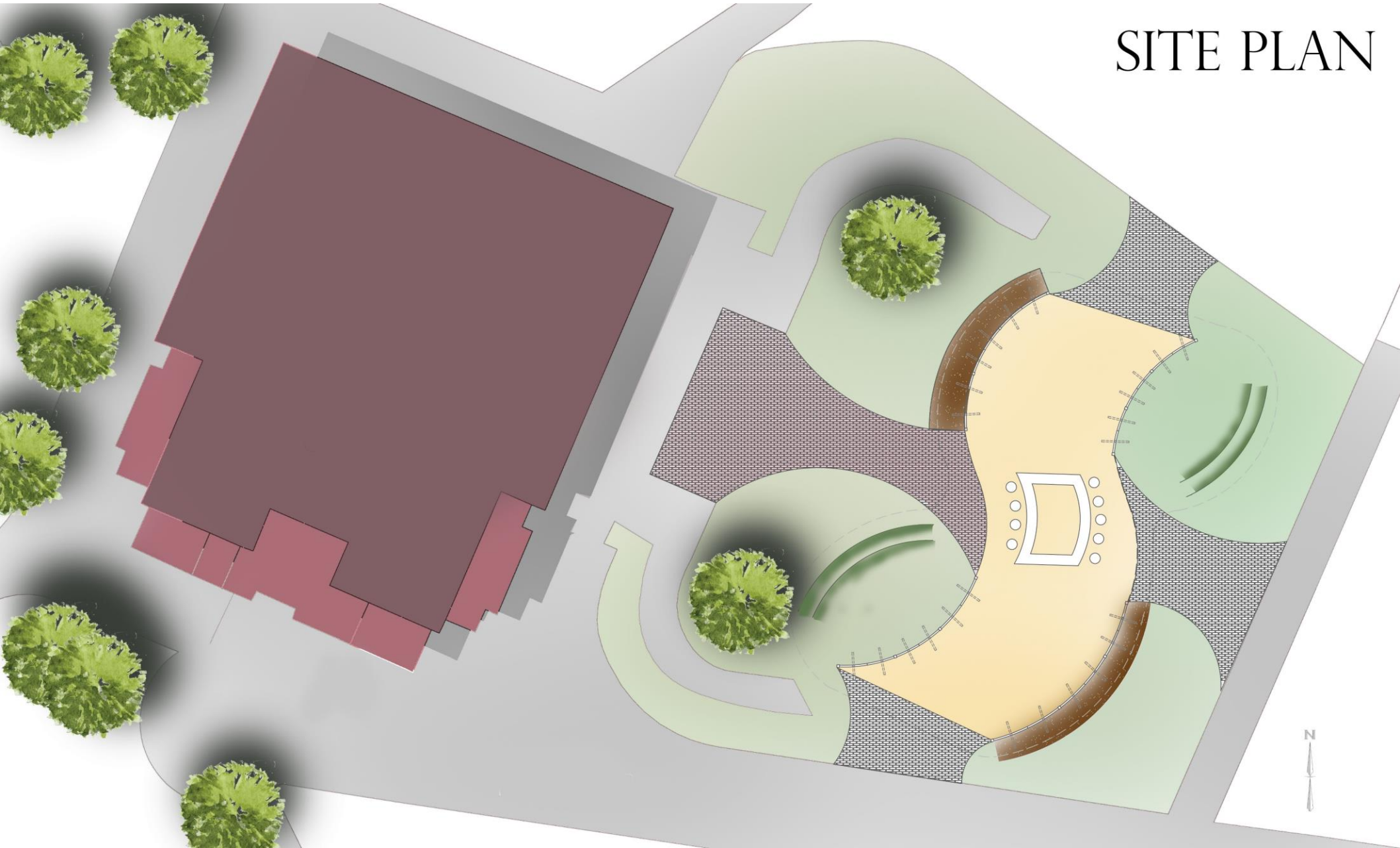


Thermo Bimetal

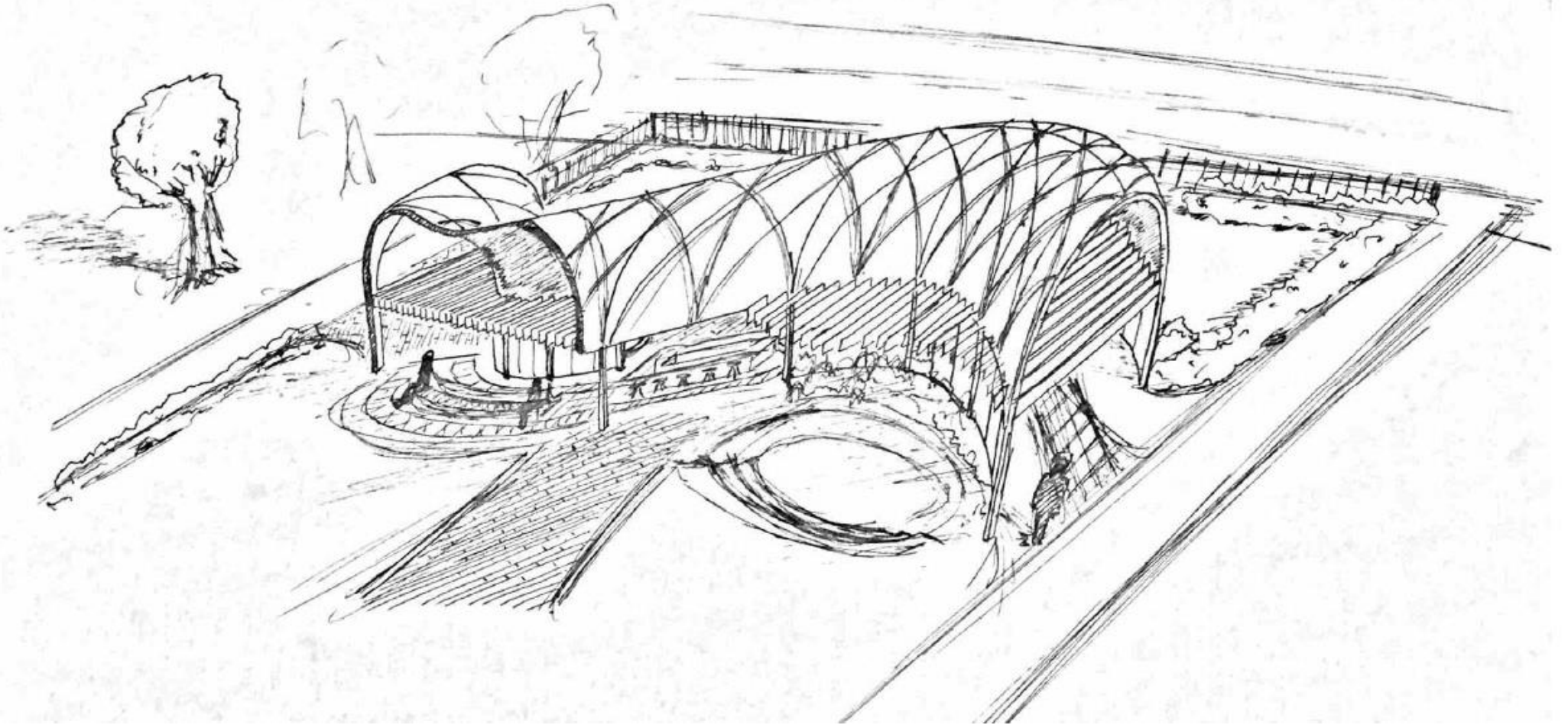




SITE PLAN

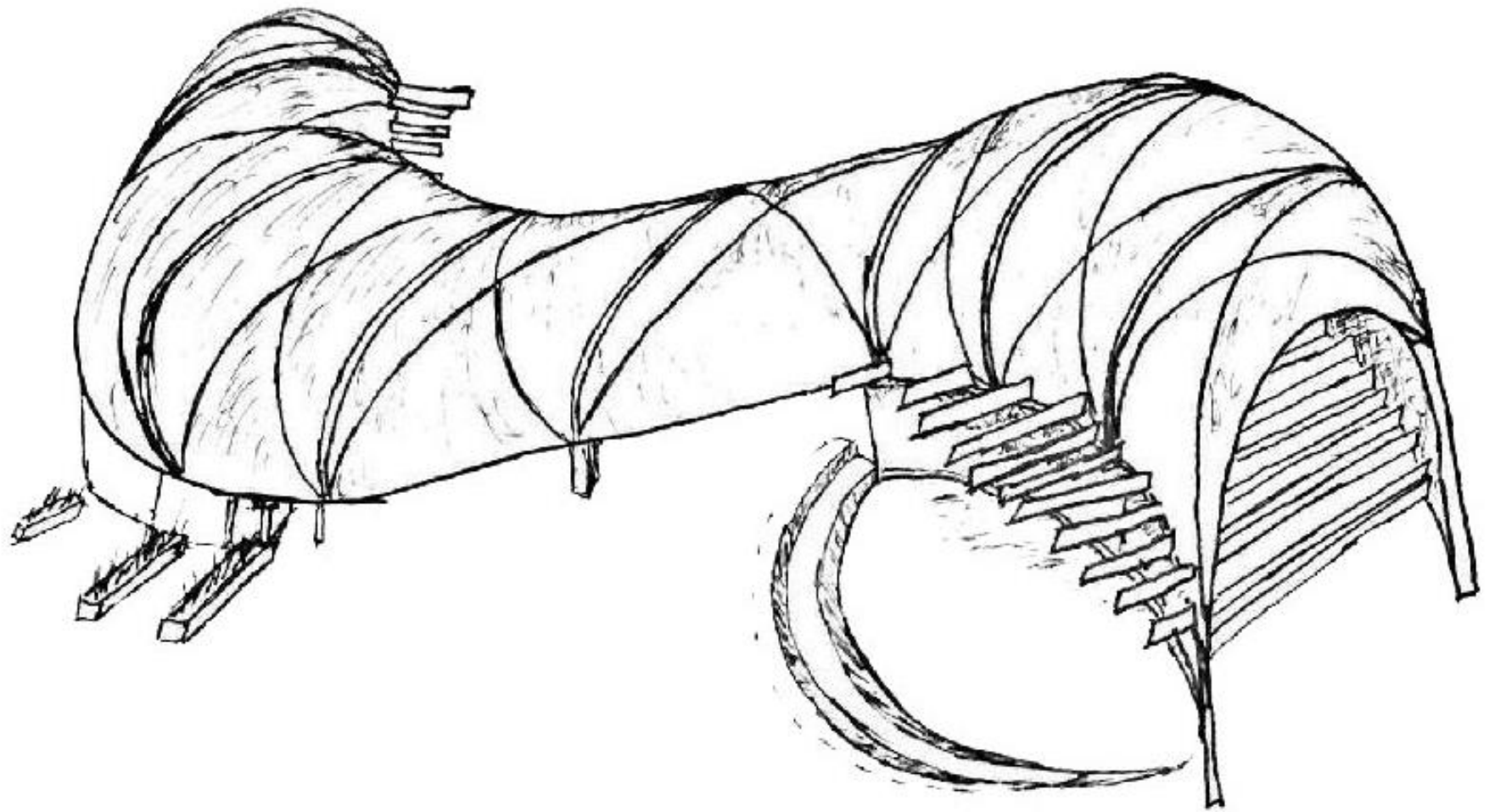


CUT PERSPECTIVE



ELEVATION





Regen. Checklist

Regeneration-Based Checklist for Carbon-Neutral, Zero Net Energy Design and Construction

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Project: _____

	degeneration		sustainability			regeneration			
	-100 always	-75 usually	-50 sometimes	-25 a bit	0 balances	25 a bit	50 sometimes		75 usually
planet									consumes energy equitably
	consumes energy disproportionately								consumes energy equitably
	serves few								serves many
	differentiates man-made and natural								conflates man-made and natural
	imports all its energy								exports energy from site
	emits carbon								sequesters carbon
	pollutes air								cleans air
	pollutes water								cleans water
	wastes rainwater								harvests rainwater
	is built on a greenfield								is built on a brownfield
site									produces food
	consumes food								produces food
	destroys rich soil								creates rich soil
	dumps wastes unused								uses wastes as resources
	destroys wildlife habitat								provides wildlife habitat
	lacks site integration								is integral to the site
	decreases density								increases density
	promotes fuel-powered transportation								promotes pedestrian and transit access
	creates uncomfortable micro-climates								creates comfortable micro-climates
	ignores building size issues								optimizes building size
building									uses natural light effectively
	excludes natural light								uses natural light effectively
	uses only mechanical cooling								uses passive cooling effectively
	uses only mechanical heating								uses passive heating effectively
	is unconcerned with performance								monitors and improves performance
	discourages user control of systems								encourages user control of systems
	produces human discomfort								enhances human comfort
	uses inefficient equipment								uses highly efficient equipment
	uses non-renewable fuel-powered circulation								uses benignly powered circulation
	pollutes indoor air								enhances indoor air quality
culture									maintains itself
	needs clearing and repair								maintains itself
	uses high-carbon materials								uses carbon-sequestering materials
	is designed for demolition								is designed for disassembly
	uses materials wastefully								uses materials carefully
	cannot be recycled or reused								can be recycled or reused
	serves as an icon for the apocalypse								serves as an icon for regeneration
	discourages community interaction								encourages community interaction
	is socially and ecologically exclusive								is socially and ecologically inclusive
	is a bad neighbor								is a good neighbor
is crassly ugly								is sublimely beautiful	

Synopsis
