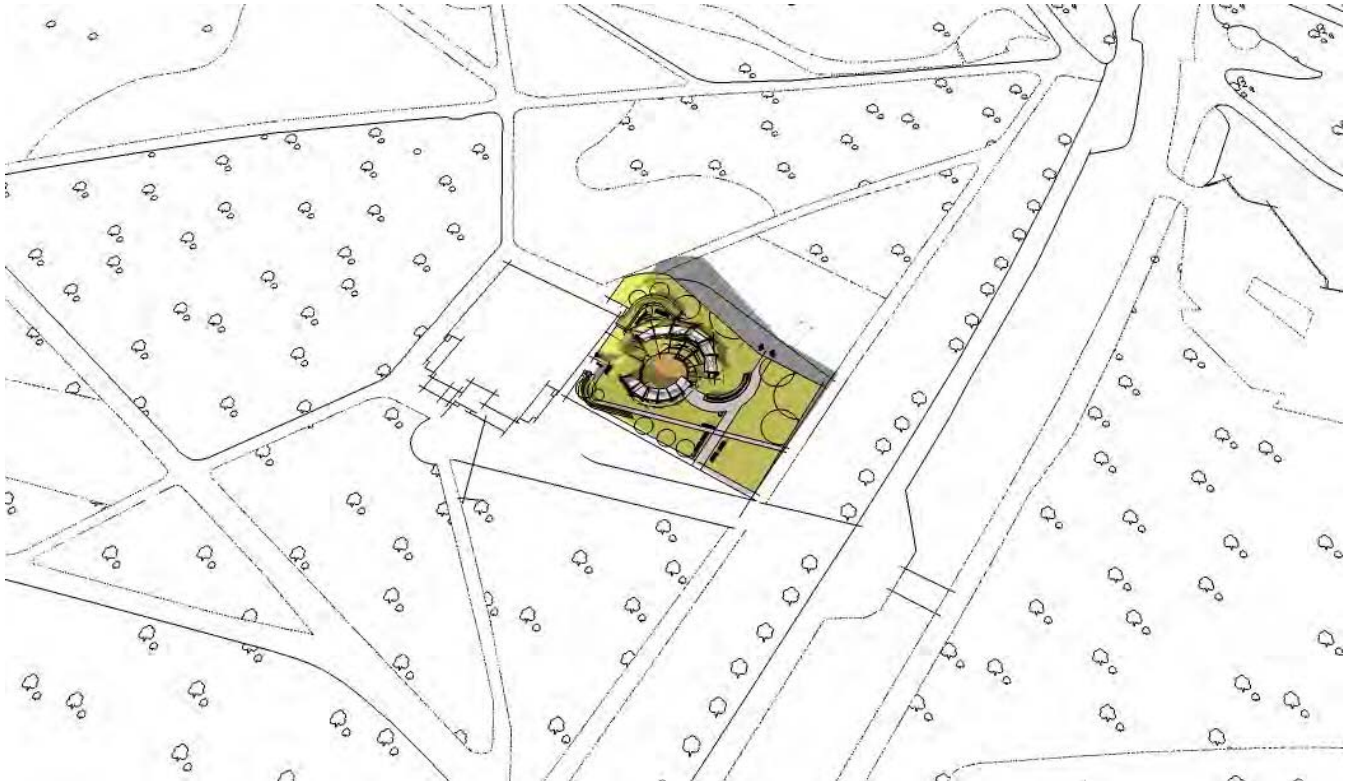# TEAM BLACKFRIARS

Ciera Shaver   Meghan Craig   Brandon Taylor   Tim Christensen

Hosted by: Cullinan Studio
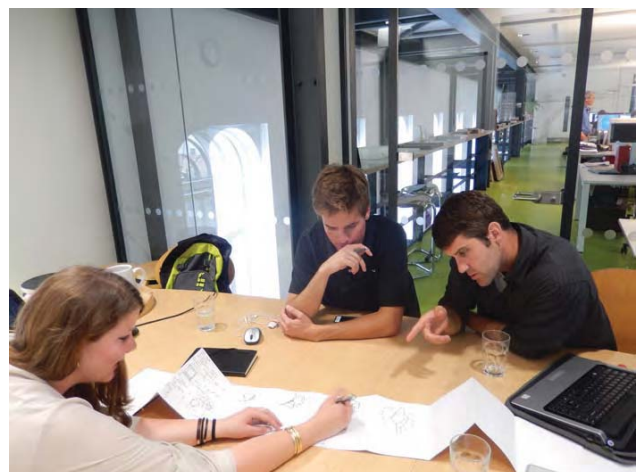

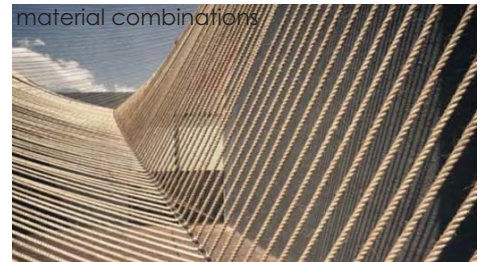BRIEF: The appointed architectural practice may wish to consider -

+ The historic, social and physical context of the Serpentine, together with the history and layout of the existing building, and the Gallery's Exhibition, Education and Public Programmes
+ An innovative use of materials, both new and traditional
+ The Serpentine Gallery's cultural mission to present international modern and contemporary art, architecture and education and public programmes to a diverse and international audience
+ The visitor's experience of art, architecture, education and public programmes within the 'natural' setting of a large green space in central London
+ A design that does not obscure the Serpentine's east façade, but enhances the relationship between gallery, lawn, terrace and park landscape
+ The windows in the East Gallery overlooking the Serpentine's lawn may remain open, which means that visitors to the exhibition will be able to view the Pavilion from inside the Gallery. The design of the Pavilion therefore should respond to the possibility of being experienced from this vantage point
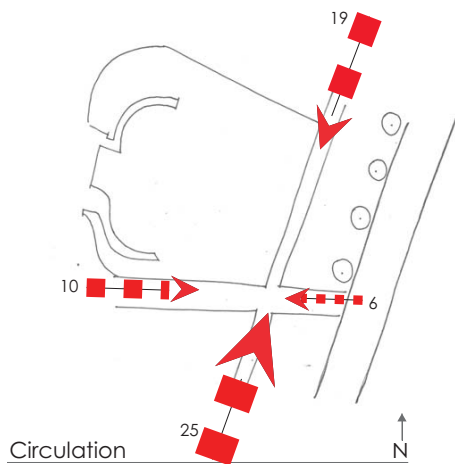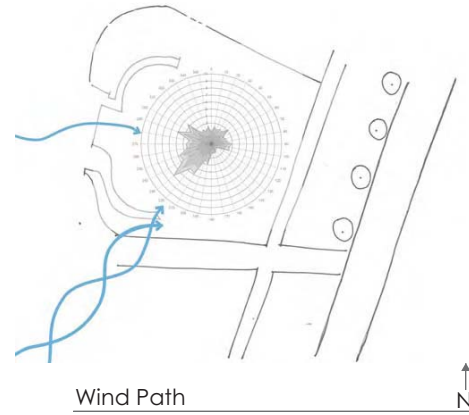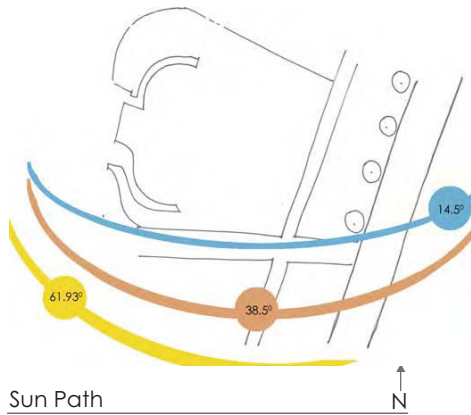
GOAL:

+ To design an environmentally conscious pavilion that is influenced by London's culture, through the form and end use.

PRECEDENTS:

renewable resource
natural ventilation + daylighting

simple connections

biodegradable tensile fabric

various materials

intrigue

incorporation of nature

material combinations

framing of views

SITE ANALYSIS:

14.5°
61.93°
38.5°
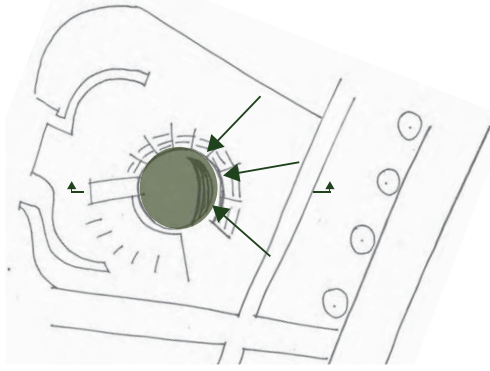Sun Path
N

Wind Path
N

19
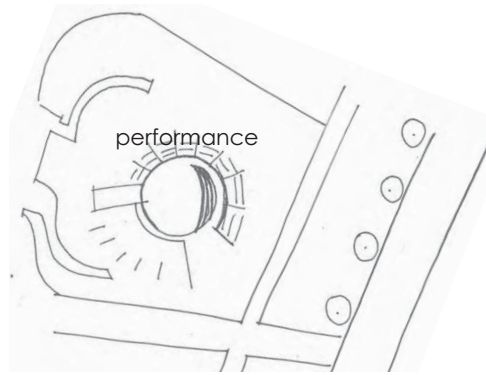10
6
25
Circulation
N

Vegetation
N

CONCEPT DIAGRAMS:

To design an environmentally conscious pavilion that is influenced by **London's culture**, through the form and end use.
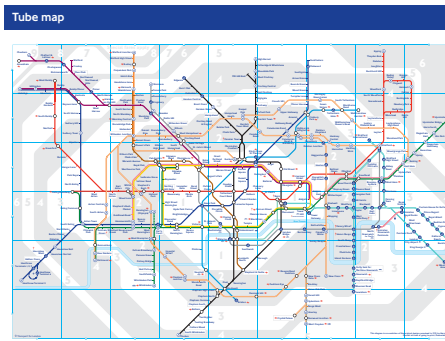

A submerged environment

performance

A space for educating

poetry readings
open discussions
dance recitals
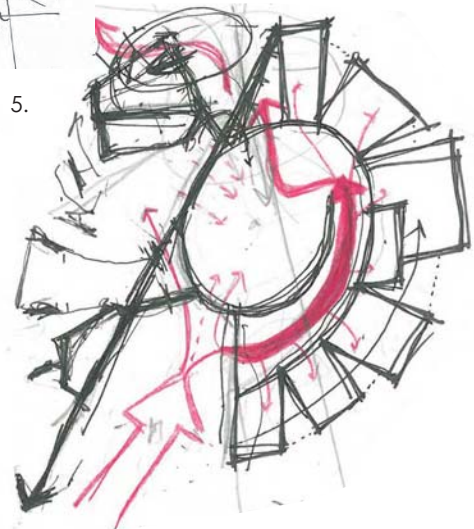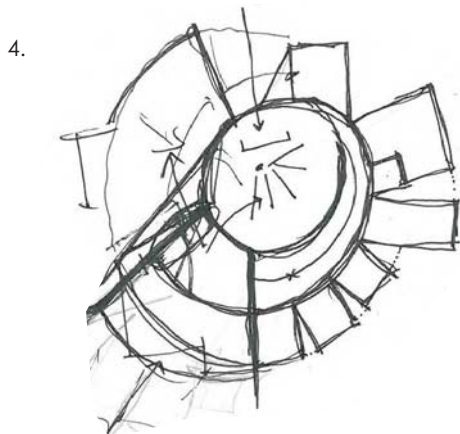

Environmentally conscious

Tube map

While considering context

PROCESS:

1.

[MUSEUM] → DAYLIGHT

- whik Noise
- trees for barrier

N

[STREET]

2.

cafe
elevated
private
public
whik noise

3.

Cafe

like study hall
(to)

4.

5.

SITE PLAN:

Site Plan

N

PROGRAM:

lobby

cafe

cafe seating
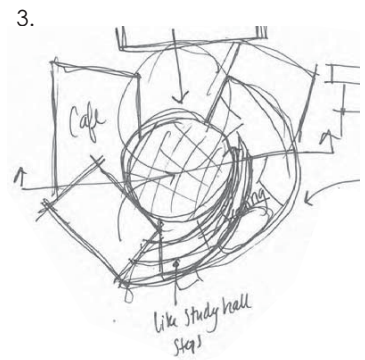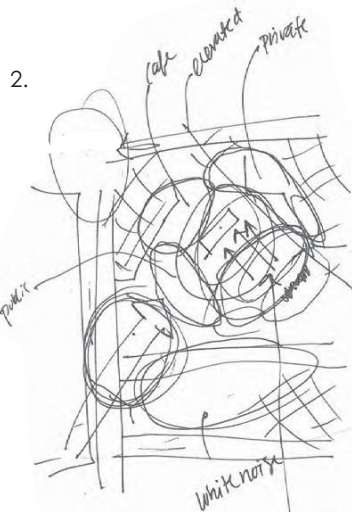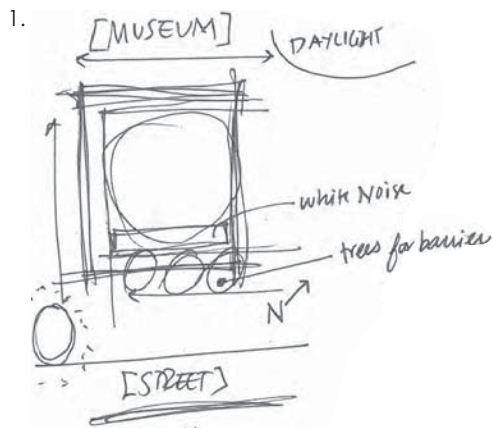
performance space

5 sqm (50sqf) - Lobby

19 sqm (204sqf) - Cafe

67 sqm (721sqf) - Performance
                      space

SECTIONS + DETAIL:

Section - S1

Glulam from recycled timber
Recycled shipping pallets
Steel connection
Bolted connection
Concrete footing
Screw pile foundation

Connection Detail

PERSPECTIVES:

Approach

Cafe

Performance Space

REGENERATION-BASED CHECKLIST:

Regeneration-Based Checklist for Design and Construction

© SBSE @ Tadoussac 1999

Project:

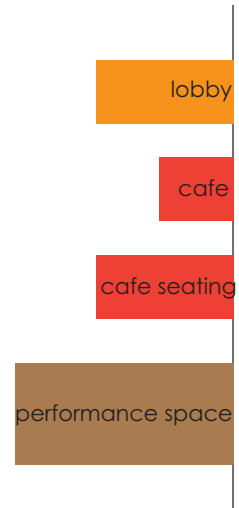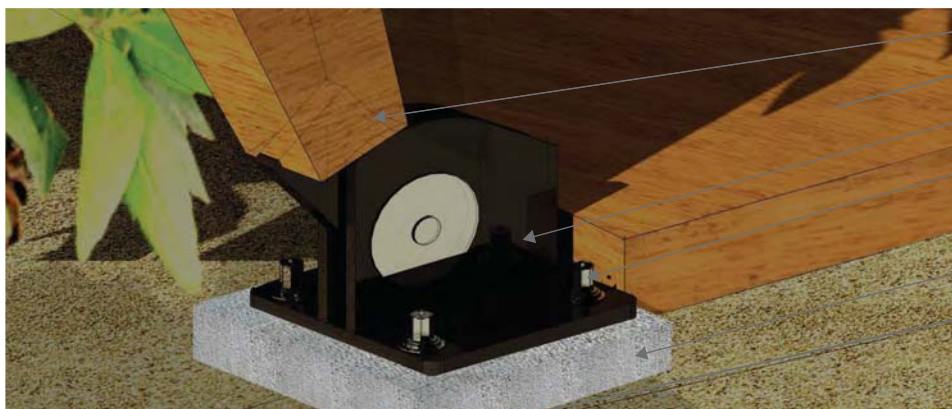|	degeneration				sustainability				regeneration	
	-100 always	-75 usually	-50 sometimes	-25 a bit	0 balances	25 a bit	50 sometimes	75 usually	100 always	
pollutes air					■					cleans air
pollutes water					■					cleans water
wastes rainwater					■	■	■			stores rainwater
consumes food					■	■	■			produces food
destroys rich soil					■	■				creates rich soil
dumps wastes unused					■					consumes wastes
destroys wildlife habitat					■	■	■			provides wildlife habitat
imports energy			■	■	■					exports energy
requires fuel-powered transportation			■	■	■					requires human-powered transportation
intensifies local weather				■	■	■	■			moderates local weather
excludes daylight					■	■	■	■	■	uses daylight
uses mechanical heating					■	■	■	■	■	uses passive heating
uses mechanical cooling					■	■	■	■	■	uses passive cooling
needs cleaning and repair					■	■	■	■		maintains itself
produces human discomfort					■	■	■	■	■	provides human comfort
uses fuel-powered circulation					■	■	■			uses human-powered circulation
pollutes indoor air					■	■	■	■		creates pure indoor air
is built of virgin materials					■	■	■	■		is built of recycled materials
cannot be recycled					■	■	■			can be recycled
serves as an icon for the apocalypse					■	■	■	■		serves as an icon for regeneration
is a bad neighbor					■	■	■	■	■	is a good neighbor
is ugly					■	■	■	■	■	is beautiful

the site | the building

negative score	positive score
2200 possible	2200 possible
25	1200

final score:	1175

SYNOPSIS:

Our design achieves our goal of creating an environmentally conscious pavilion that was influenced by London's active culture. Through the implementation of:

- observing the surrounding context with respect to the Serpentine Gallery

- requiring human powered transportation to the pavilion by foot and bike

- a flexible multi use performance space

- a environmentally conscious cafe menu

- educational recycling graphics showing what you can do and why you should recycle through the activity of doing so

- sustainable strategies further reinforced through visual elements by the engagement of the occupants in the pavilion
    - pavilion orientation
    - daylighting
    - natural ventilation
    - material palette

Southern Aerial

Northern Aerial