



Create a **juxtaposition** between the reality of our current melting planet and the **potential for a healthy future** through the demonstration of sustainable technology.

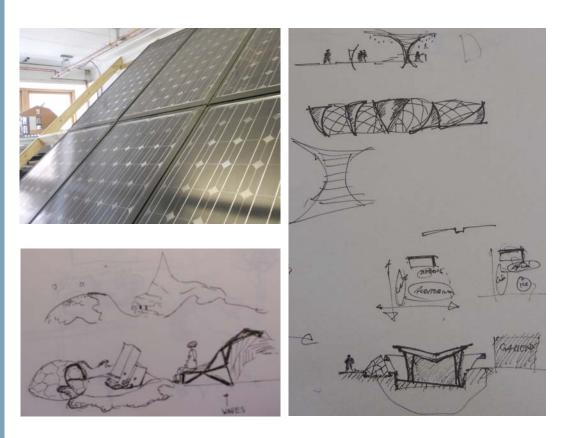
Create **interactive** micro-climate with use of ice

Display human impact with the ice cap

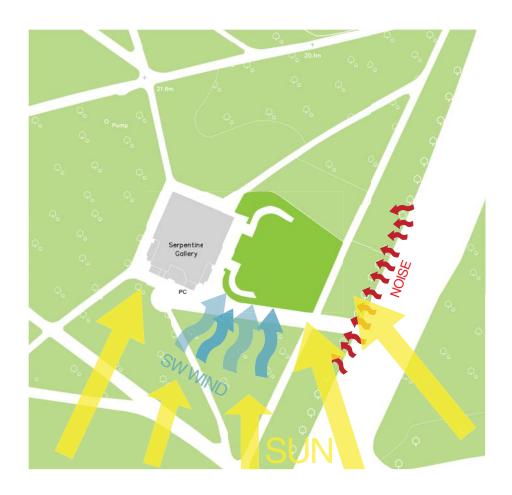
Use site to **educate** visitors on global warming

Promote **sustainability** by using and recyclying materials and systems

APPROACH



ANALYSIS



PROCESS



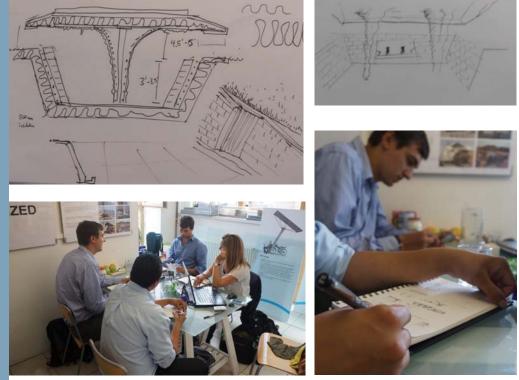




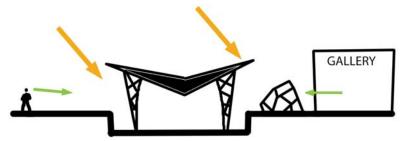




PROCESS

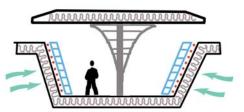


GOALS

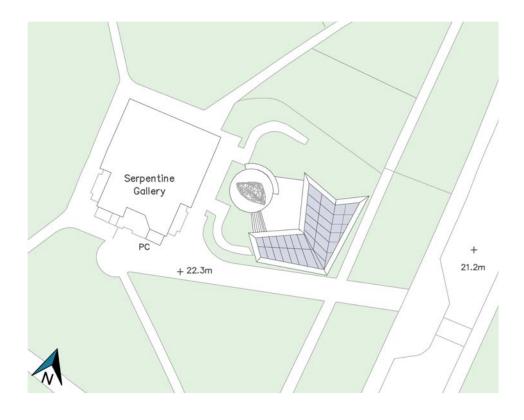


Important factors on the site to consider that affect our design include the **visibility** from the human level from the entrance just south of the site which also includes vehicular traffic. The level of the canopy should allow drawing interest into the area and draw people into the buried space. The use of actual ice within the pavilion will affect how much **Sun penetration** we want to enter the interior space. The rate of melting during the day may also be mitigated by providing shelter for the iceberg to the north. The iceberg is located between the proposed pavilion and the existing gallery to provide a **connection of the two** spaces. From the inside, the patron is able to look out and see the ice and the pavilion.

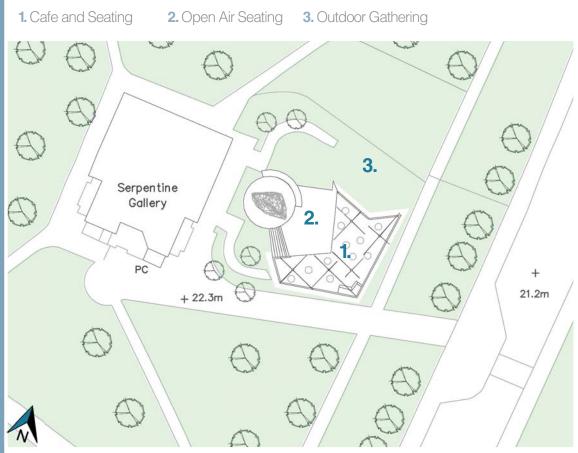
To help preserve the ice inside the pavilion under colder temperature, the base of the pavilion will be placed **4' beneath** the surface. The walls will be super **insulated** as well to help keep most of the cold air in and warmer air out. The ice walls will be built up of **ice blocks** that will be supported by **glycol chilled coils** that allow the transfer of below-freezing water to also be used on the column structure that will create a **web** of ice



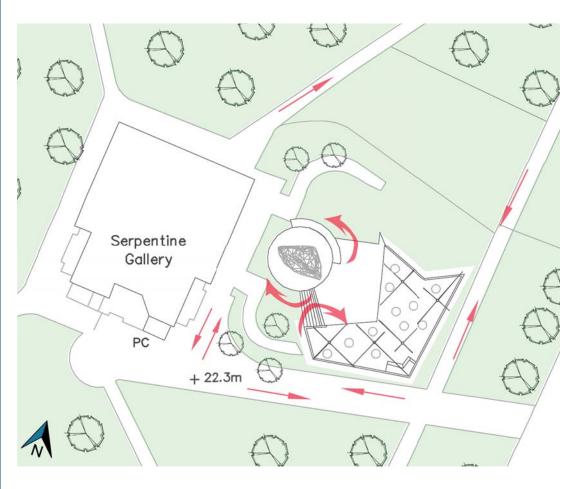
SITE PLAN



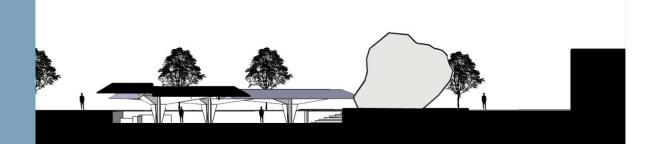
FLOOR PLAN



FLOOR PLAN CIRCULATION



SECTION



EXTERIOR RENDER



INTERIOR RENDER



THE CHECKLIST

Project:										© SBSE @ Quebec City 2009	
degenera			sustaina			bility		rege		neration	
	100 always	75 usually	50 sometimes	-25 a bit	0 balances	25 a bit) sometimes	75 usually	00 always		
consumes energy disproportionately	7	F;	÷	ņ	ō	25	8	32	Ş	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	-			-	H		-	-	-	cleans air	
pollutes water				-				-	-	cleans water	
wastes rainwater	-			-		-				harvests rainwater	
is built on a greenfield	-		-	-						is built on a brownfield	
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	-			-	\vdash					promotes pedestrian and transit acces	
creates uncomfortable micro-climates	-			-						creates comfortable micro-climates	
ignores building size issues	-			-	H	-			-	optimizes building size	
excludes natural light	-		-	-		-				uses natural light effectively	
uses only mechanical cooling	-			-				-	-	uses passive cooling effectively	
uses only mechanical beating	-			-		-	-	-	-	uses passive beating 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	-		-	-	\vdash	-				enhances indoor air quality	
needs cleaning and repair	-		-	-		-				maintains itself	
uses high-carbon materials	-			-	\vdash	-				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	-			-	H	-			_	serves as an icon for regeneration	
discourages community interaction	-			-	\vdash	-				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	
is trabsiy ugy				_					_	is subilitiely beautilitie	
1	n	gativ	e so	ore		p	osith	e so	ore	1	
				ossible			700 g				
		-10					28				
			10				20	50			