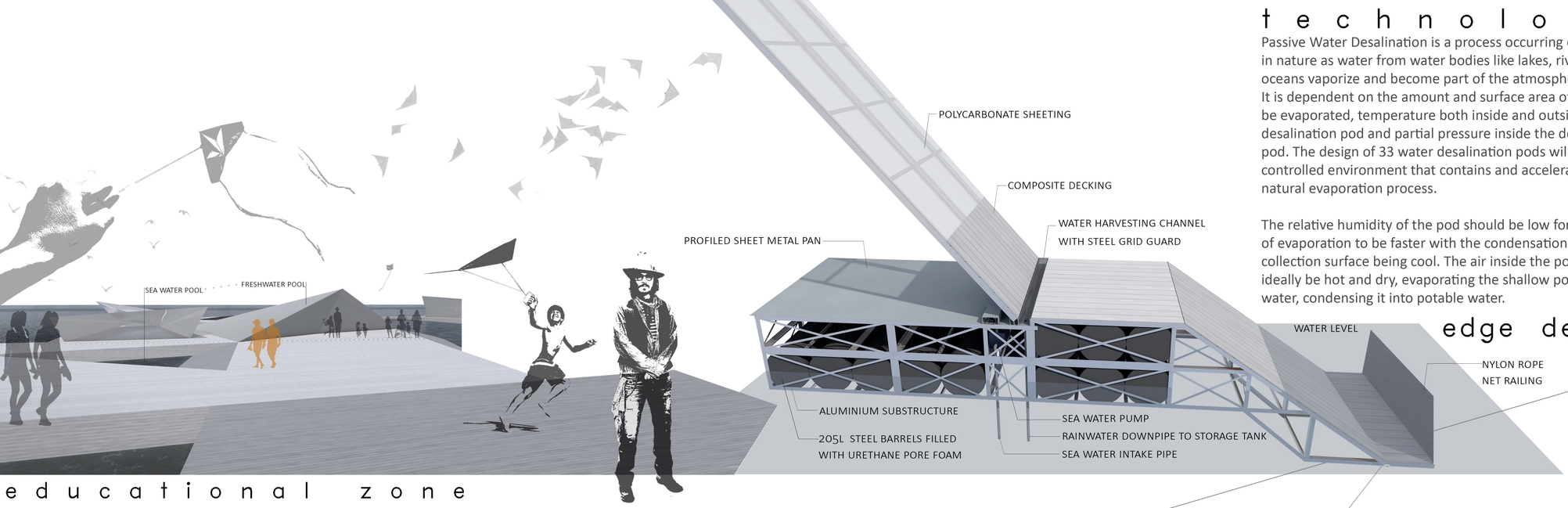


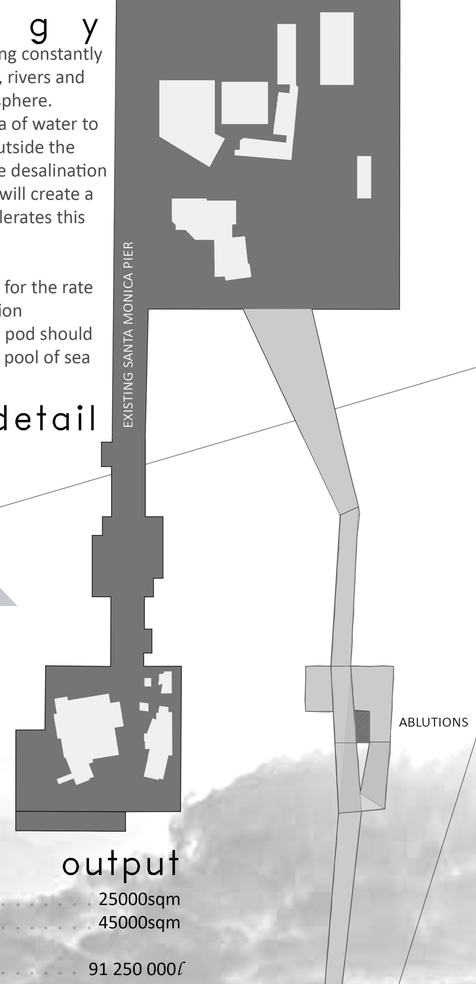
e d u c a t i o n a l z o n e

t e c h n o l o g y

Passive Water Desalination is a process occurring constantly in nature as water from water bodies like lakes, rivers and oceans vaporize and become part of the atmosphere.
It is dependent on the amount and surface area of water to be evaporated, temperature both inside and outside the desalination pod and partial pressure inside the desalination pod. The design of 33 water desalination pods will create a controlled environment that contains and accelerates this natural evaporation process.

The relative humidity of the pod should be low for the rate of evaporation to be faster with the condensation collection surface being cool. The air inside the pod should ideally be hot and dry, evaporating the shallow pool of sea water, condensing it into potable water.

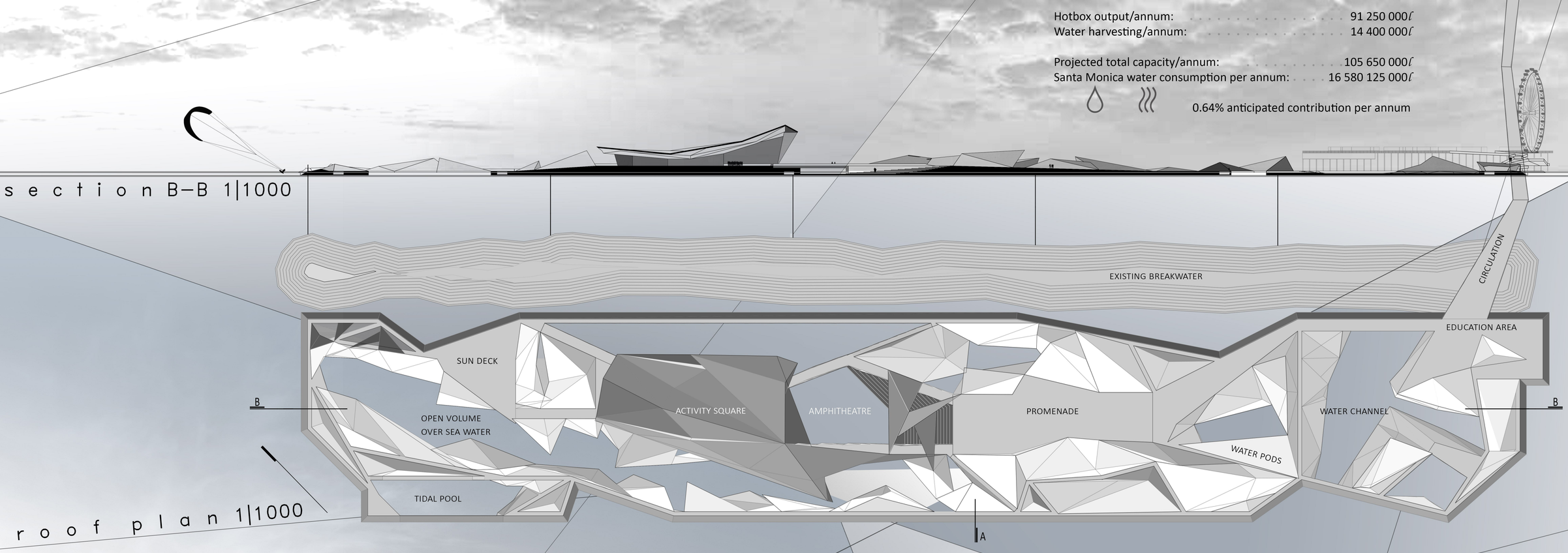
e d g e d e t a i l



estimated water output

Desalination pods:	25000sqm
Surface area (harvesting):	45000sqm
Hotbox output/annum:	91 250 000ℓ
Water harvesting/annum:	14 400 000ℓ
Projected total capacity/annum:	105 650 000ℓ
Santa Monica water consumption per annum:	16 580 125 000ℓ

0.64% anticipated contribution per annum



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