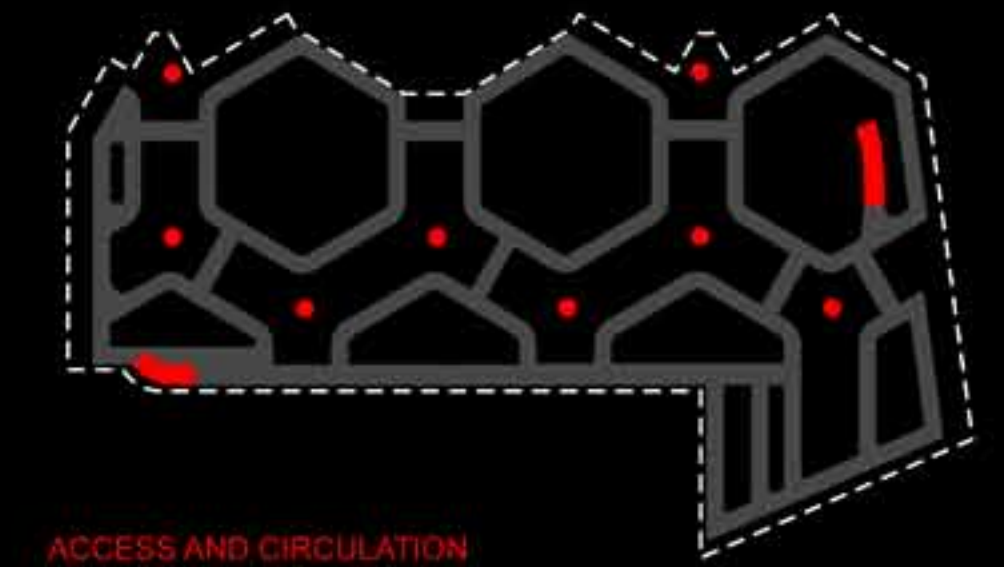
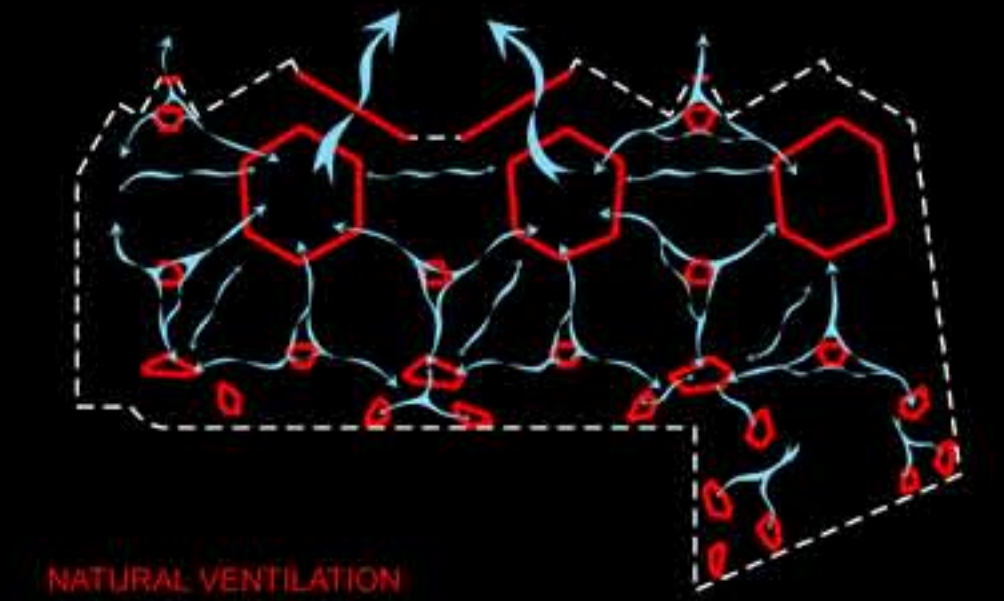




FOUNDATION
 The site is challenging for foundations systems. The soil report indicates that there is a 5 to 15m thick sand fill underlying the site and the waterway running at the northern boundary of the site contribute to potential ground instability. **Bore pile foundations system** are therefore proposed, as they have the ability to resist both the vertical gravity load as well as horizontal load induced by the change in ground water table and the wind. During construction stage, installation of bored piles foundation will also **minimize vibration** transmitted to the LRT structures.



ACCESS AND CIRCULATION



NATURAL VENTILATION



NATURAL LIGHT

STRUCTURAL SYSTEM
 The proposed structural system for the residential blocks comprises a cast-in-situ reinforced concrete flat plate, **precast concrete walls, precast concrete columns and beams**. Cast in-situ flat slab with drop panel, precast concrete columns and beams would be used for the Environmental Deck and Carparks. The use of cast in-situ structural elements is avoided where possible to maximise buildability. However, after careful consideration this system was chosen for the E-Deck and tower floor systems because of the design flexibility it provides. This system will allow E-deck structure to subtly and easily **integrate the complex landscape** provisions and allow the apartments to be beam free even in the larger living/dining spaces. All reinforced concrete walls and columns will be directly founded on pile foundation. Selected walls will be designed as shear walls to ensure the lateral stability of the building.