

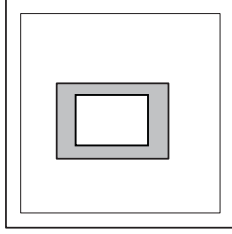


3.5 Plant and Roof Levels

Planning Principles

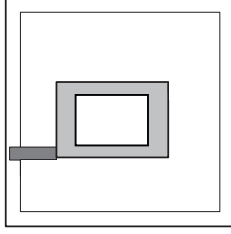
Plant

Required plant items have been located and concealed within the roof form of the building, allowing the strength and rading of the roof form to be maintained. Plant spaces are typically located near the atrium where the allowable internal height is greatest.



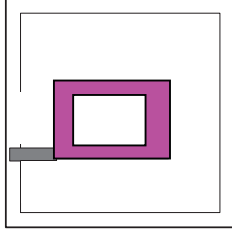
Cores

The north core extends up to the plant level within the roof providing directly, walkable and lift access.



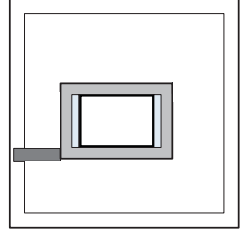
Fire Sprinkler Tank and Fire Pump Room

The Fire sprinkler tank and pump room have been located immediately adjacent to the cores to minimise service runs and to facilitate easy access to these frequently accessed space.



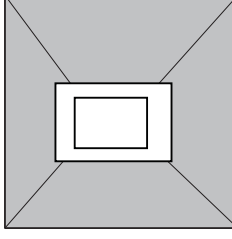
Relief Air Fans

A night purge system has been integrated into the atrium roof to promote the passive cooling of the building overnight and allow the building to be more easily temperature controlled throughout the following day.



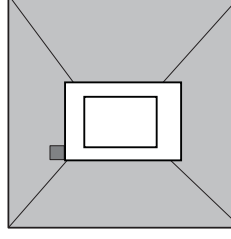
Roof

With a coordinated approach the necessary plant, can be incorporated into the building's roof therefore developing as a unifying key element to the architectural scheme.



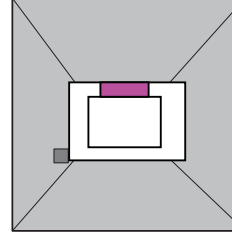
Lift Over Run

The lift which provides direct maintenance access to the plant floor will require a small overrun which is discretely located on the north-western corner of the roof.



Cooling Towers

The cooling towers have been set down into the roof to ensure these are not visible from the surrounding context and creates an architecturally sympathetic solution to their integration.



Photovoltaic and Solar Hot Water

The intent is to locate the photovoltaic panels in the centre set down to ensure they are concealed from view. Solar hot water panels are located on the northern facing portion of the roof.

