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Civil Aviation Safety Authority

AIR NAVIGATION, AIRSPACE AND AERODROMES BRANCH

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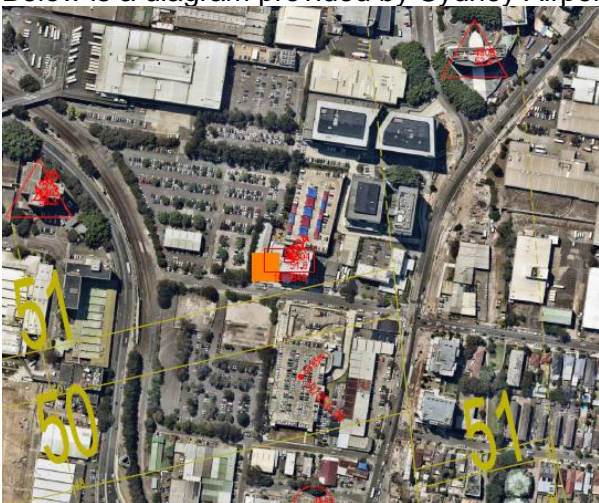
297 KING STREET, MASCOT, MULTI LEVEL WAREHOUSE, ADDITIONAL CASA COMMENTS

CASA has briefly reviewed the Amendment Report of June 2024 by Urbis for a Multi-Level Warehouse 297 King Street, Mascot.

The height of the building height has changed slightly and is now RL50.61m (formally 50.32m building height). The height increase of 0.29m makes no difference to the CASA assessment. CASA does not object to the proposed development.

Following is a sundry incidental comment on cranes for future reference:
Amendment Report 2.1.1. Categorising of Key Issues correctly advises 'Controlled activity approval required for the use of cranes over 51m'. Cranes infringing the Inner Horizontal Surface (51m) are generally not a major issue. However, cranes infringing the Take-off Surface are a major issue (unless, for example, the runway is closed (eg during curfew) or other mitigations are available). Cranes at the site could potentially infringe both the Inner Horizontal Surface and the Take-off Surface.

Below is a diagram provided by Sydney Airport for a previous assessment in the area.



The diagram indicates that the Take off surface over the southern part of the site would be very approximately 52m AHD / RL. The Inner Horizontal Surface will be the lowest surface, but the Take off surface will be the most critical.

Following is an extract from ICAO Annex 14 Volume 1 'Aerodrome Design and Operations':

'4.2.25 New objects or extensions of existing objects shall not be permitted above a take-off climb surface except when, in the opinion of the appropriate authority, the new object or extension would be shielded by an existing immovable object.'

Normally CASA would not recommend infringement of the Take off surface. (Shielding will not apply).

Therefore, non-standard construction methods (including tall crane operations during curfew) and/or mitigations could be required to construct the building(s).

David Alder

Yours sincerely

David Alder
Aerodrome Engineer
1 July 2024