

24 August 2016

161358

APP Corporation Pty Ltd
Level 7, 116 Miller Street
North Sydney NSW 2060

Attention: Andrew McConnell

NSWRL – CENTRE OF EXCELLENCE

SEARs Structural Design Statement

Dear Andrew,

We have reviewed the existing site and the architectural drawings prepared by Populous dated 19 August 2016 for the proposed new building and in our opinion the site is suitable from a structural perspective for the new building and that the structure could be designed in accordance with the required structural codes nominated in the Building Code of Australia (BCA).

A detailed geotechnical investigation is still to be prepared but based on results of investigations close to the site it is expected that there will be very low strength shale at approximately 6m below ground level with class III or better shale at a depth of approximately 10m. With this soil profile we propose that piled foundations would be adopted.

Structural framing is intended to be a post tensioned banded slab with reinforced concrete columns and walls. Preliminary structural layouts are being developed in conjunction with the architect so that columns will have minimal impact on the architectural planning. All of the concrete elements will be designed to achieve the Fire Resistance Levels nominated in the BCA.

Lateral loading for wind and earthquake effects will be resisted by reinforced concrete walls at the lift and stair cores.

A structural steel roof will be adopted with column positions setout to suit the architectural planning. Structural steel elements will be fire rated where required by the BCA.

For and on behalf of
TAYLOR THOMSON WHITTING (NSW) PTY LTD



DARREN JEFFRE
Technical Director

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