

Letter

DATE 25/11/2021
TO Sirius Development
120B Underwood Street
Paddington NSW 2021
ATTN John Green
RE Request for Additional Information

Reference is made to the earlier SCP Report 21/09/2021. This report outlined a number of structural concerns with the existing structure in relation to the existing Trees T50 and T51.

The earlier SCP issued report indicated:

- The existing trees T50 and T51 have caused damage to the existing retaining walls- cracking, induced lean and root penetration.
- The existing retaining walls adjacent to Trees T50 and T51 do not comply with current Australian Standards AS4678 and are non-certifiable to current codes for strength and stability.
- The new structural works including the SOHO works will de-stabilise the existing walls during the structural construction.
- SCP noted the soil backfill will need to be removed to prevent potential failure of the walls as a result of their current instability.

In response to point 1 of the DPIE request dated 18th November 2021 - Identify alternative options have been investigated to retain the existing plane trees our comments are as below.

From our extensive experience on this project over several years we advise that there is no other structural solution other than that documented that maintains the approved works and enables SCP to certify the executed works at the conclusion of the construction works.

The essential demolition and preparation works required to construct these new columns and footings will destabilise the existing retaining wall as mentioned in our previous report dated 21/09/2021.

In addition to the requirements to install new pad footings and columns at the location of the SOHO columns, the existing retaining wall at Tree T50 & T51 will require demolition and reconstruction as the wall is unstable. The existing retaining wall geometry fails the stability requirements of AS4678 as the wall footing is not wide enough to ensure compliance in terms of necessary stability for overturning.

The current root ball pressure behind the walls is contributing to the instability. The existing wall has failed at Tree T51 as highlighted previously.

SCP is required to certify the completed project to current BCA and as a result, non-certifiable items on the project such as the existing retaining wall at Tree T50 and Tree T51 are required to be demolished and rebuilt to current code requirements to ensure that SCP as certifying Structural Engineers can certify the completed structure as a whole. During this process, the stability of the trees will be affected.

We trust this report is as per your requirements.

Yours faithfully
SCP Consulting Pty Ltd

A handwritten signature in black ink, appearing to read 'Paul Siewert'.

Paul Siewert
Director