ABN 53 110 564 102
40 Timbarra Road
St Ives NSW 2075
T/F: 02 9943 6510
M: 0425 342 051
E: landscapematrix@optusnet.com.au

17 October 2013

Dilhan Ramasundara
John Holland Pty Ltd
PO Box 256
Fyshwick ACT 2609

Dear Mr Ramasundara,

Re: Sydney University Abercrombie Precinct at Darlington NSW – Proposed amendments to development works in vicinity of tree

Reference is made to our discussions regarding proposed amendments the approved development works in the vicinity of a mature tree at Sydney University's Abercrombie Street project.

As you are aware, Landscape Matrix has previously prepared an Arboricultural Impact Report dated 5 April 2012in respect to this project.

It is understood design amendments are proposed in the vicinity of the tree identified as tree number 1 in the previous report prepared by Landscape Matrix. As you are aware, tree number 1 is a mature specimen of *Eucalyptus saligna* (Sydney Blue Gum) approximately 26 metres in height with a canopy spread of 22 x 23 metres and a diameter at breast height (DBH) of 1020mm. The tree is in good health and is of high landscape significance.

Under *AS4970-2009 Protection of trees on development sites* tree number 1 has a tree protection zone (TPZ) of 12.2 metres and a structural root zone (SRZ) of 3.6 metres. The TPZ and SRZ are radial offsets from the centre of the trunk.

I confirm I have reviewed the proposed amendments and identified the 2 areas of proposed encroachment into the TPZ are as follows:

$27.22m^2$ = 5.79% of TPZ; and
$13.91m^2$ = 2.96% of TPZ.

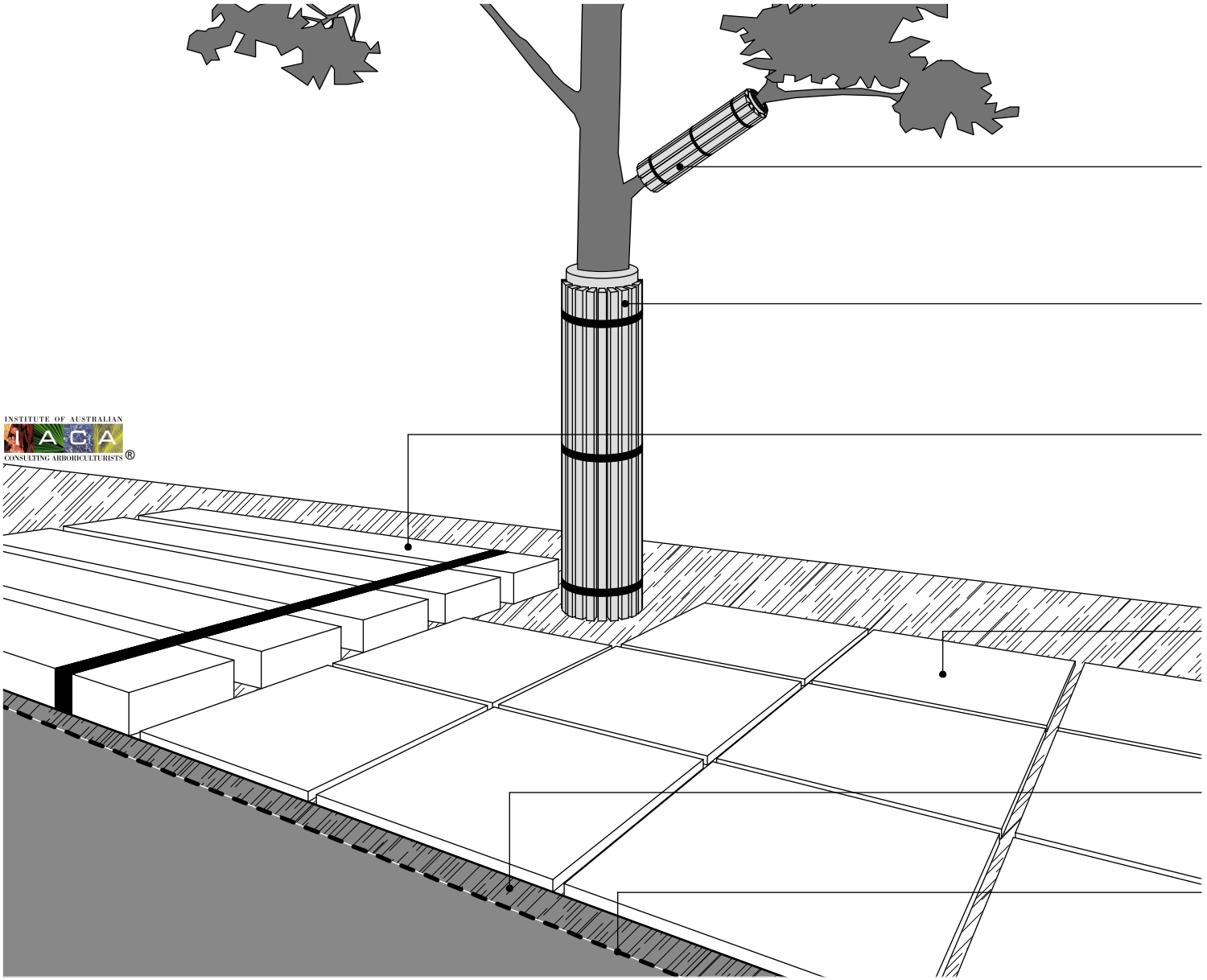
The total encroachment is less than 10% of the tree's identified TPZ – this is a minor encroachment under AS4970-2009 and is within an acceptable threshold.

As previously advised, it is recommended that those areas of the TPZ not able to be protected by tree protective fencing (due to the need for construction access) will need to be protected by ground protection as identified in Figure 4 of AS4970-2009. The ground protection measures identified in Figure 4 of AS49070-2009 are illustrated in the attached diagram.

Don’t hesitate to contact me if you wish to discuss any aspect of this advice.

Yours sincerely

Guy Paroissien MAIH, MIACA, MISAAC
M Env. Mgt. & Restor., Dip. Arboriculture, Hort. Cert., Tree Care Cert.
Director
Landscape Matrix Pty Ltd



Branch Protection - use boards and padding to prevent damage to bark on branch. Boards are to be strapped, not screwed or nailed to the branch.

Trunk Protection - use boards and padding to prevent damage to bark (minimum 2m). Boards are to be strapped, not screwed or nailed to the trunk.

Ground Protection - use device strapped over mulch or aggregate layer. Ground protection device should be of a suitable thickness to prevent soil compaction and root damage.

Steel plates (or approved equivalent) with or without mulch or aggregate layer below.

Maximum 100mm and minimum 50mm depth mulch or aggregate layer.

Geotextile fabric underneath mulch or aggregate layer.

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Examples of Branch, Trunk and Ground Protection

Not to Scale