

## SSD 7054, LEES1 Building, Camperdown Campus

### Supplementary Information on Protection of Figs Fronting City Road

DPE has advised of further concerns raised by the City of Sydney and Heritage Council regarding the protection of the existing mature Figs fronting City Road during the construction process of the development of LEES1. The information supplied below incorporates advice and confirmation of matters by independent arborist consultants TreeIQ who has been closely involved in the protection and maintenance of these trees for this project. TreeIQ Director Anna Hopwood's contact details are at the conclusion of this statement for reference.

TreeIQ is also the author of the University's *Tree Management Plan 2015* which was prepared in collaboration with the City of Sydney Council.

The City of Sydney has posed a number of questions and concerns in their second response which are addressed by Tree IQ in their attached addendum letter. The University has worked closely with Tree IQ on this matter and is completely comfortable with their recommendations in relation to the successful retention of these trees as this has been a key part of the brief and these trees are an important historical and aesthetic asset of the University'

**Recommendation:** Given the concerns raised by the City which have not been supported by any Arboreal advice, the University would not object to Department imposing a Bond for the protection of these trees as part of the SSD consent conditions.

#### TreeIQ Response (Refer to letter dated 6 September 2016)

The proposed LEES Building has been designed to minimise construction and building impacts to the City Road Figs.

As part of the design development stage, TreeIQ determined the maximum amount of pruning acceptable based on an individual assessment of the trees' crown form and the constraints of Australian Standard 4373 Pruning of Amenity Trees (2007). The proposed building was sited based on the trees' crown form, following these pruning works. These crown pruning works were carried out on 29 July 2016 in accordance with City of Sydney Notice of Determination TPR/2016/228 dated 15 June 2016.

As per Section 3.6.7 of the Arboricultural Impact Assessment (Rev D, 11.04.16), any additional pruning in sections of the trees' upper crowns to accommodate sections of the proposed building projection will be limited to branches no greater than 50mm diameter. This pruning work should represent terminal growth only which could be either pruned with hand tools from hoardings/scaffolding or temporarily pushed back.

No additional pruning will be required for scaffolding or construction program of the LEES1 building.

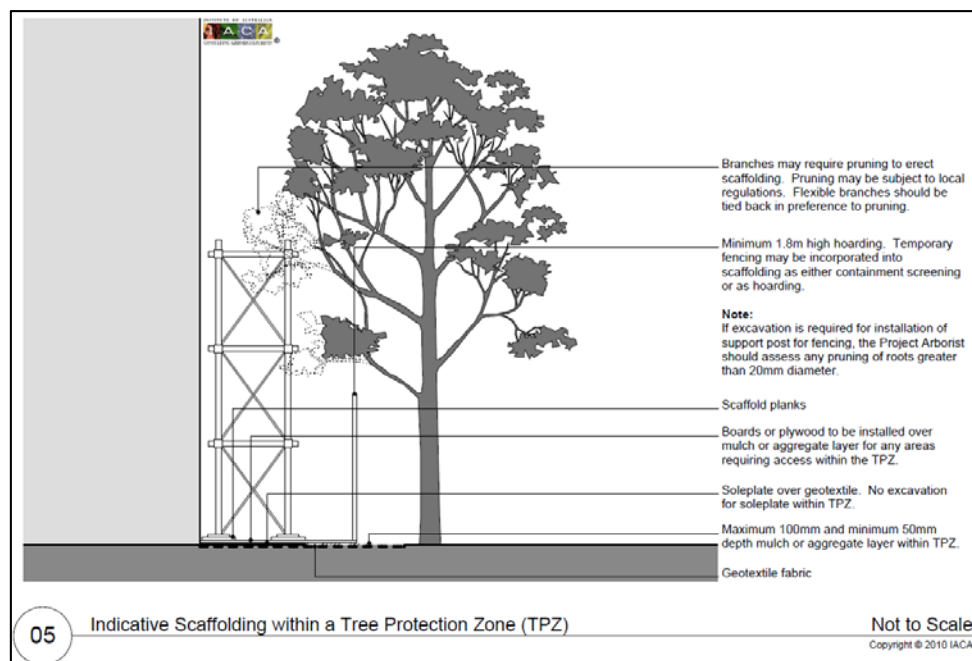
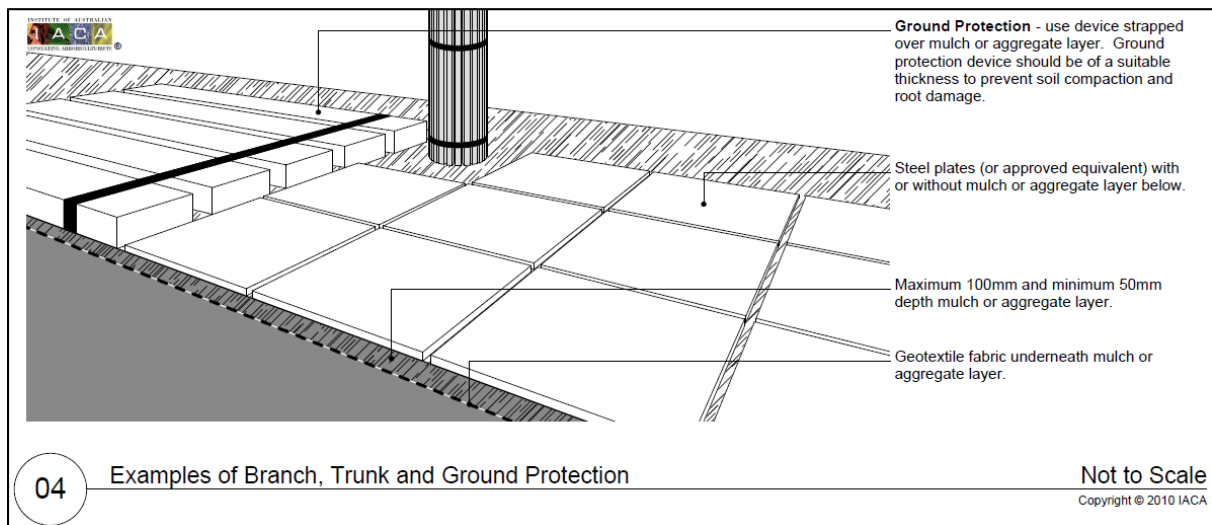
Ongoing pruning of large diameter branches will not be required. The trees have an asymmetric crown form resulting from high levels of shading from the existing adjacent trees and building to the north.

Root mapping investigations were also undertaken as part of the design development process. Whilst the root mapping investigations were limited to a depth of 500-600mm (in general, the majority of tree roots are found within the top 500mm of the soil profile), based on the size and number of roots identified, the proposed excavation works should not significantly impact the Useful Life Expectancy of the trees.

The roots found as part of the root mapping investigations were pruned in a two stage process in August 2015 and July 2016 in accordance with the City of Sydney Notice of Determination TPR/2015/287 dated 16 July 2015 and Determination TPR/2016/228 dated 15 June 2016.

The proposed scaffolding (encompassing both the formwork support system & edge protection) required to access the building edge during construction is temporary in nature and will be coordinated in conjunction with advice from the Arboricultural Consultant. The scaffolding can be modified as necessary to limit additional pruning requirements. An example of scaffolding modification is shown in Figure X – see photo at end of document.

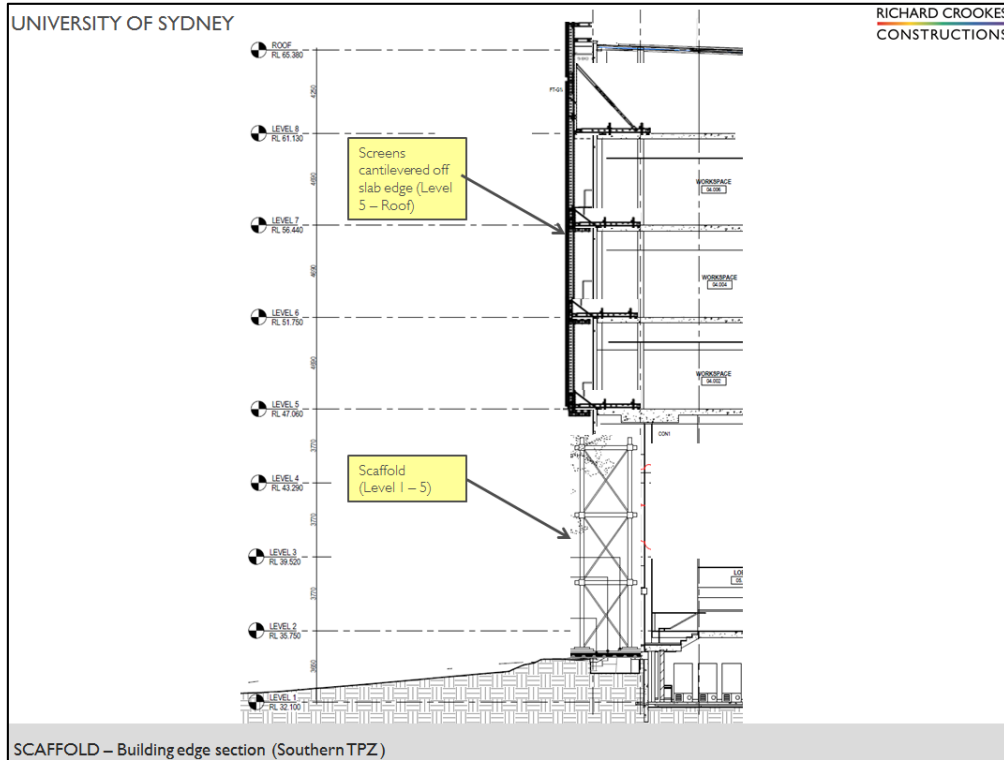
Ground protection will be provided to prevent soil compaction from scaffolding sole plates within the TPZ areas. Indicative ground protection within Tree Protection Zone detail follows:



The proposed scaffolding will project approximately 2.0m from the final edge of the building façade, extend from Ground Level to the underside of Level 5; above this level proprietary screens will be utilised which are supported on the as constructed slab edge (not ground

level) and extend approximately 700mm from the final edge of the building. The scaffolding design is flexible and can be modified as necessary to limit additional pruning requirements or prevent damage to the trees.

Scaffold building edge section follows:

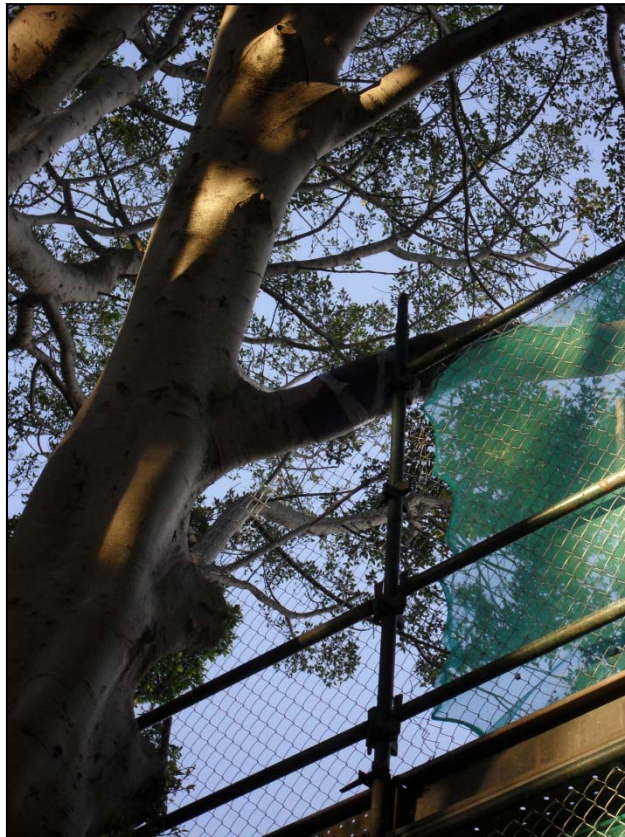


Excerpt photo of screen edge protection proposed for Level 5-Roof as follows:



Prior to removal of the scaffold from Level 1-5 the external façade will be finished, utilising the existing scaffold, including finish coating of façade surfaces, glazing and soffit installation.

After final casting of the reinforced concrete super structure and installation of the upper level structural steelwork the screens from Level 5-Roof will be removed and the prefabricated curtain wall will be installed by lowering in to position utilising the site crane. Any access requirements after curtain wall installation shall be undertaken utilising rope access or the site crane (man box).



Document verified and endorsed by:

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