



Vipac Engineers & Scientists Ltd.

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Stamford Property Services

25 Jul 2014

Suite 2, Level 10

Ref: 20E-14-0214-TNT-351955-1

139 Macquarie Street Sydney NSW 2000

Attention: Joseph Oh

Maquarie Park Village, Section 75W, Wind Update

Dear Joseph,

Stamford Property Services has engaged Vipac to provide a re-assessment of the impact to the wind environment of the current design of Stage 1 of the proposed development at 110-114 Herring Road, Macquarie Park, NSW. Vipac conducted an assessment on the original design as detailed in report 30N-12-0107-TNT-304814-4. The pedestrian wind environment adjacent to the development was found to be acceptable in the original assessment such that the walking comfort criterion was achieved in the pathways and the standing criterion was achieved in the main entrances.

The original and current plans for the lower and upper ground floors are shown in Figure 1 and 2. Stage 1 includes four buildings, namely, Building A, B, D, and P. The comparisons for the particular elevations of the four buildings are shown in Figures 3 to 6. It can be seen that in terms of the overall building form and height, the design remains largely the same. The landscape plantings are also shown in Figures 1 and 2. Some changes can be seen from these plans. A driveway has been added on the west side of Building A and P in the updated design and the original trees adjacent to the buildings have been removed. This would result in an increase in wind levels; however, as driveways are not required to meet the walking criterion, the wind environment would still be within the acceptable safety criterion.

The east side of building A has specified some parking bays and the original trees have also been removed. This may cause some increase of the wind speed along the east foot path of the building A, however, we expect that this would still be within the walking criterion. Similar changes for the open areas between Buildings D and H can be seen. We believe that the above changes do not alter the original assessment result.

We have reviewed the current design to determine its impact on the adjacent ground level wind environment. We expect that the current design would have the similar wind environment as the original design, which achieved walking comfort in the pedestrian walkways and standing comfort in the main building entrance. Thus, we make no recommendations for the alteration of the building as proposed.

As was stated in the previous assessment, Vipac recommends a wind tunnel test in the detail design stage.

Yours sincerely,

Vipac Engineers & Scientists Ltd

Zhuyun Xu

Senior Wind Consultant

25 Jul 2014

Attachments:

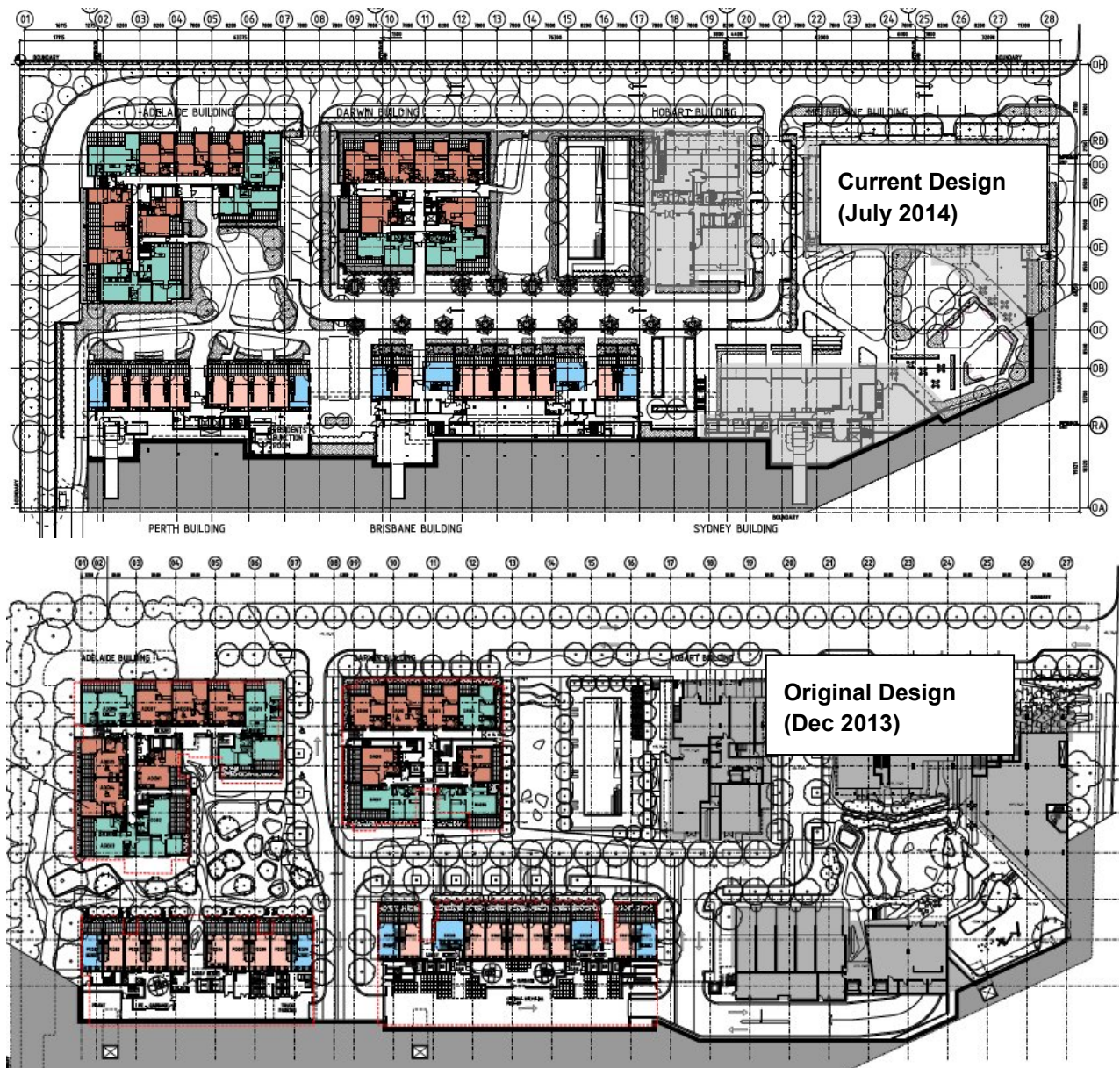


Figure 1: Lower ground floor plan for the *Maquarie Park Village* development – comparison between current design and design previously assessed (Stage 1: Building A, B, D and P)

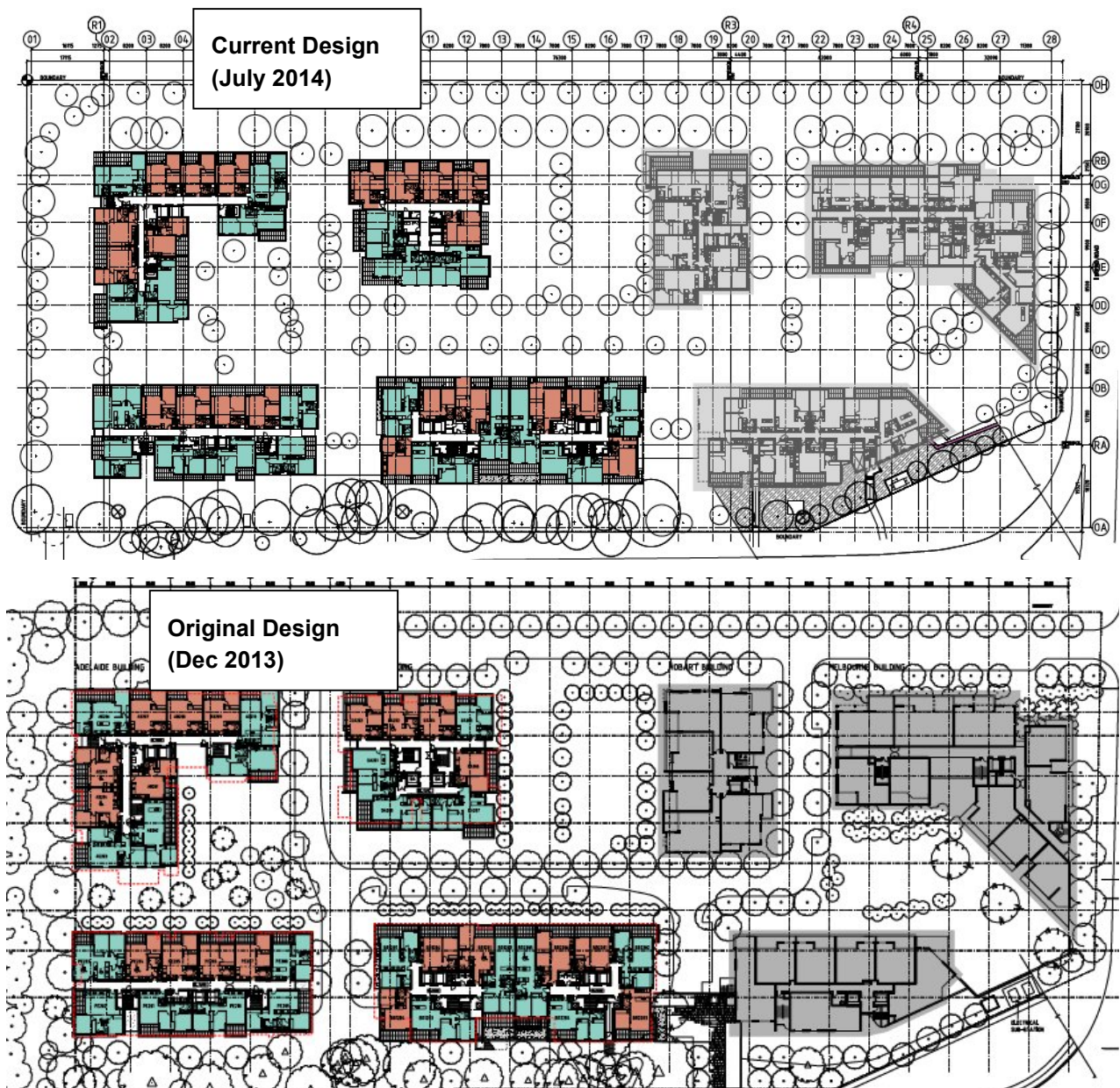


Figure 2: Upper ground floor plan for the Maquarie Park Village development – comparison between current design and design previously assessed (Stage 1: Building A, B, D and P)

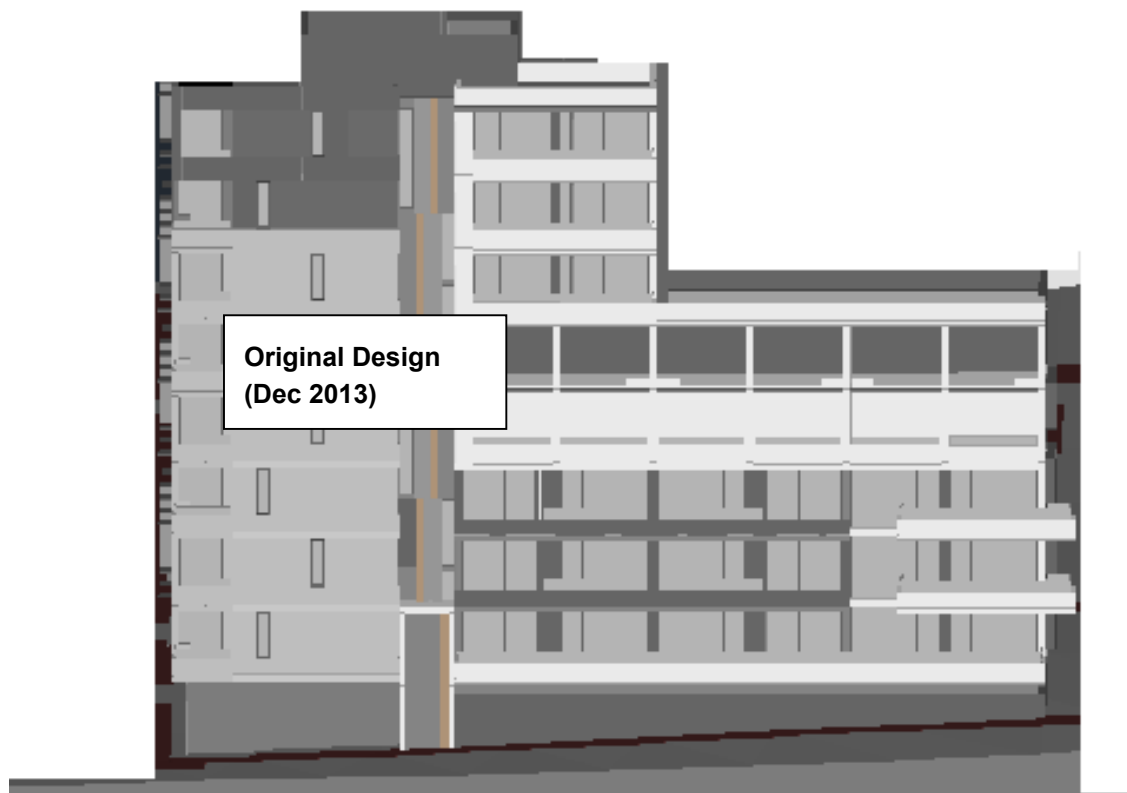
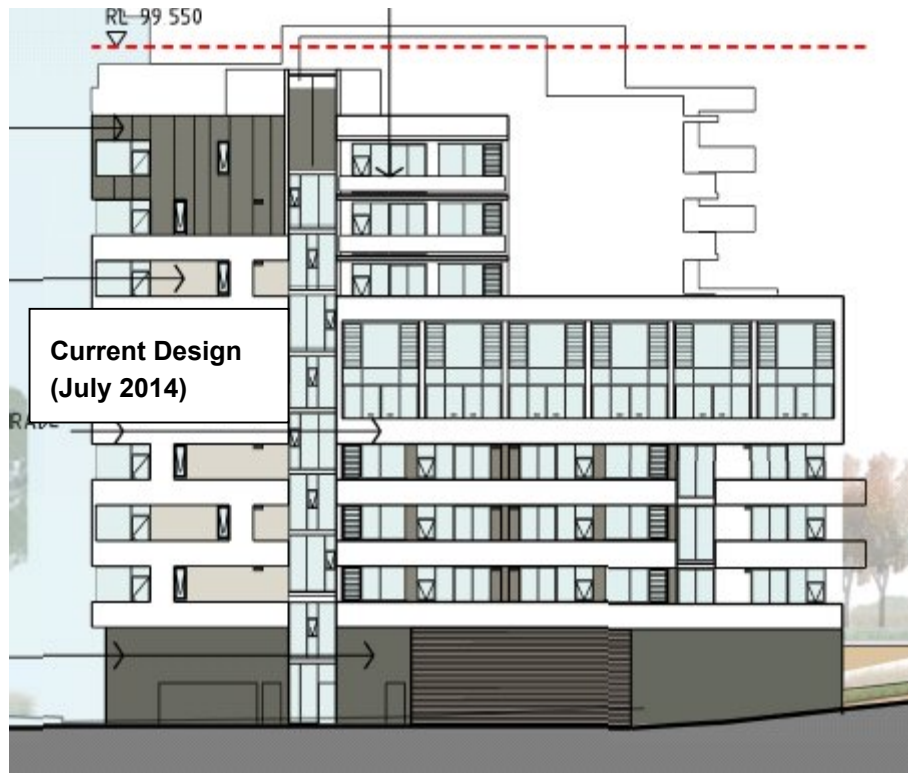


Figure 3: West Elevation of Building A (Adelaide) for the Maquarie Park Village development – comparison between current design and design previously assessed

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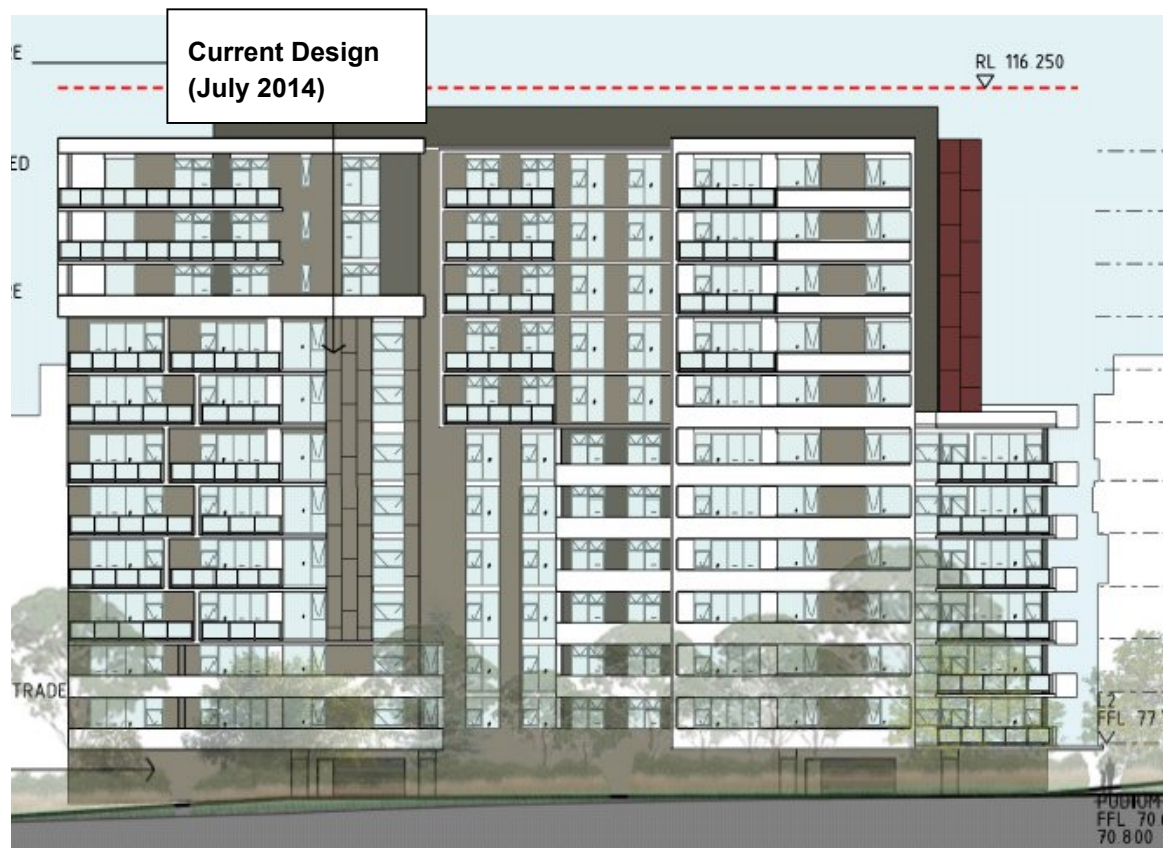


Figure 4: South Elevation of Building B (Brisbane) for the Maquarie Park Village development – comparison between current design and design previously assessed

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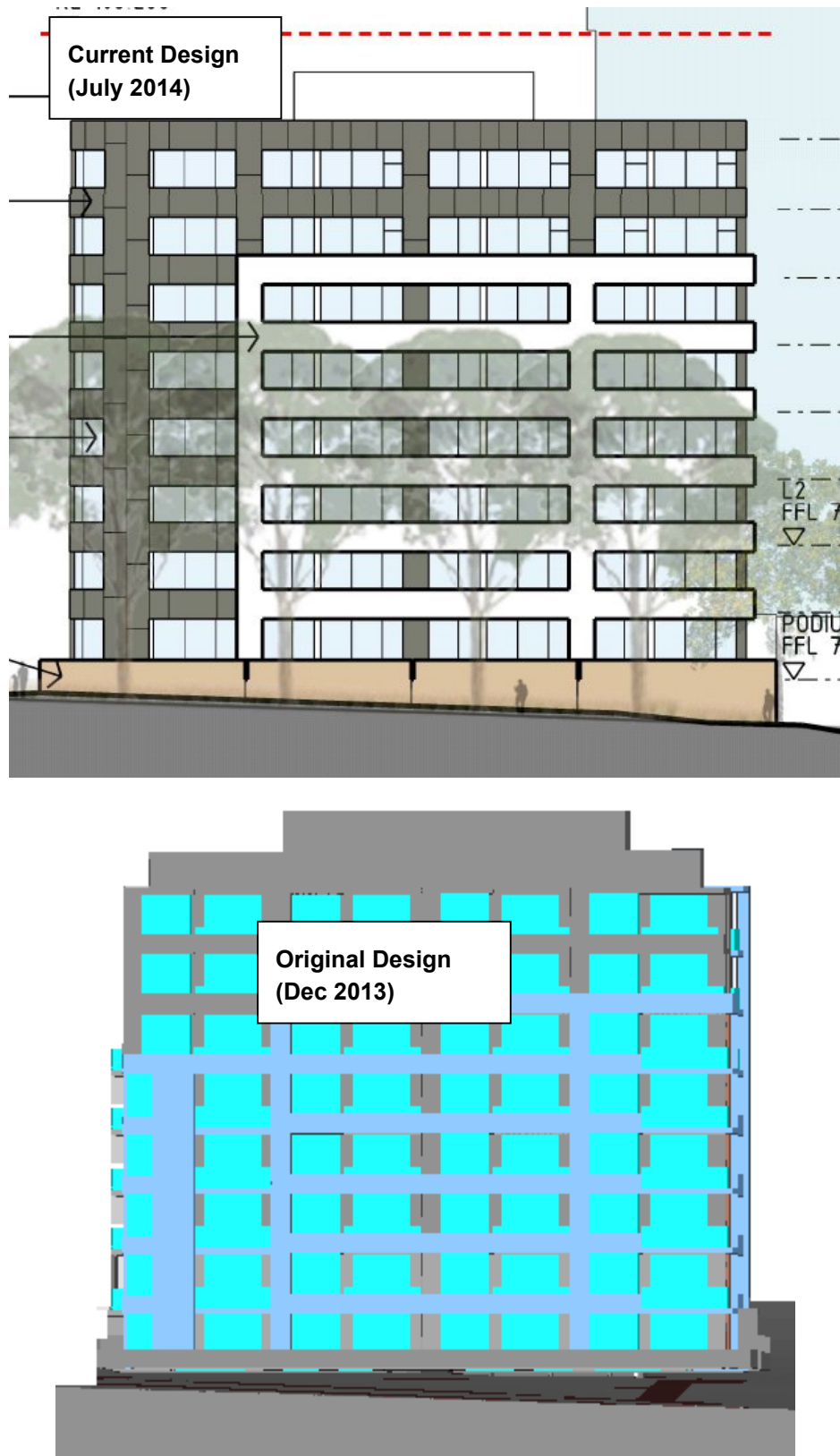


Figure 5: North Elevation of Building D (Darwin) for the the Maquarie Park Village development – comparison between current design and design previously assessed

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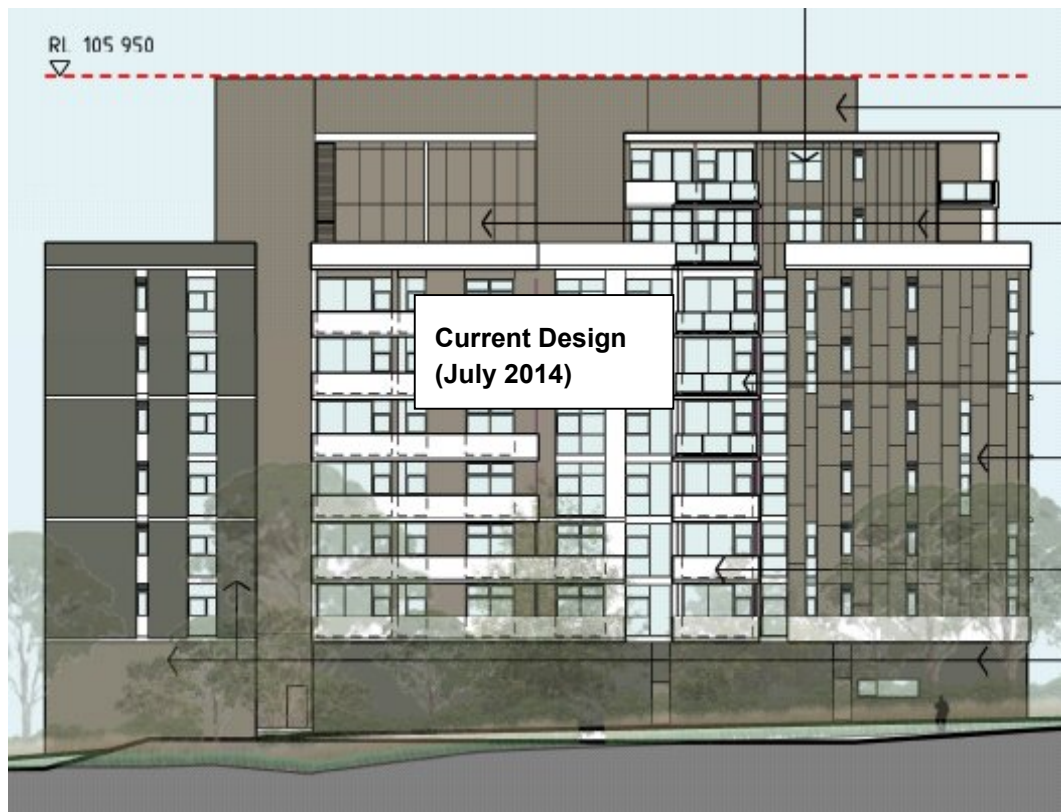


Figure 6: South Elevation of Building P (Perth) for the Maquarie Park Village development – comparison between current design and design previously assessed

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