



Umow Lai

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Laing O'Rourke Australia Construction Pty Ltd
Level 4, 100 Arthur Street
North Sydney NSW 2060

Attn:- Mr Ross Perry

Umow Lai VIC Pty Ltd
Consulting Engineers
ABN 29 143 564 738
L4, 10 Yarra Street
South Yarra VIC 3141
Australia
T: +61 3 9249 0288
ulmelb@umowlai.com.au
www.umowlai.com.au

Melbourne Sydney Brisbane

Dear Ross,

**University of Sydney – Health Precinct Stage 1
Health Precinct SSDA Submission
Section 8.2.3 Lighting Impacts**

The following information describes the considerations to address Lighting Impacts from the Health Precinct Stage 1 Building.

Context

The location of the Health Precinct is on a regularly used pedestrian route between Western Avenue to the No 1 Oval, associated grandstands, and to both the Charles Perkins Building and the Royal Prince Alfred Hospital (RPAH).

Further, there are existing road traffic routes into the precinct which will be maintained to service Bosch 1A and Bosch 1B buildings, and separately, the perimeter road of the RPAH to the west of the site, which requires 24 hour access to the loading dock and other points of service and disabled access to the RPAH. Existing spill lighting from RPAH assists in lighting the perimeter road of the RPAH.

There is extensive pathway lighting, and street lighting associated with the various routes around the Health Precinct, as well as considerable tree cover between the Health Precinct and the RPAH (around the various gazebos), and on the pedestrian and vehicle route past the RPAH Chapel toward the Charles Perkins Building. In some cases, particularly in winter, these 'interface' areas tend to be somewhat gloomy by virtue of the significant tree coverage in garden areas around the Chapel.

To the south of the Health Precinct is an existing garden sitting area which connects uphill to Cadigal Lane and the St Andrews Carpark entry, and uphill car parking accessible from the RPAH perimeter road & Cadigal Lane.

Spill of Interior Lighting

Any spill of interior lighting from the lower floors of the Health Precinct Stage 1 building will generally be from the main foyer and open areas in the centre of the building which are also connected to the main entries on Level 0, Level 1, and Level 3 on the east, north, west and south of the building. This will be relatively limited, as the bulk of the lecture theatres are on Levels 0,1 and 2, with solid walls.

From Level 3 upwards, spill light may be visible from the Academic offices and Tutorial Rooms, although moderated by the ultimate facade treatment. The luminaires for these areas will be selected to comply with the spill lighting and glare indices required by AS~1680 – Interior Lighting.

External Lighting

All external and outdoor lighting will be designed to meet the relevant standards, including:

- AS~1158.3.1 – Pedestrian Area (Category P) Lighting – Performance and Design Requirements
- AS~1158.4 – Lighting of Urban Roads and Other Public Thoroughfares
- AS~4252 - Control of the Obtrusive Effects of Outdoor Lighting.

Moreover, all luminaires selected for use within the external and outdoor lighting areas associated with the Health Precinct Stage 1 will be designed to control light spill, particularly in an upward direction. This will be achieved by careful selection of the photometric properties of the luminaires for control of side spill lighting and glare.

Placement of exterior lighting, particularly for pedestrian routes, will be coordinated with the University of Sydney, to assist with intuitive wayfinding and safe movement at dusk and overnight.

Lighting for CPTED

Selection of luminaires will be made in consultation with the security consultant for the Health Precinct, to ensure that fittings and placement are consistent with CPTED principles and that adequate lighting without veiling glare is provided for areas with CCTV cameras.

Yours faithfully

UMOW LAI

Elizabeth Coe

Director – Electrical Services