SYDNEY CONSTRUCTION DIVISION
Electrical & Communications Contractors *Since 1910*
10-12 Clyde Street,
RYDALMERE NSW 2116

File:

RE: UNIVERSITY OF SYDNEY ENGINEERING TECHNOLOGY PRECINCT (ETP)
STAGE 1 J03 BUILDING
OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING

Project site and usage conditions

The J03 Building is to be redeveloped as a micro engineering research and teaching laboratory facility. The building is accessed from Maze Crescent, an internal roadway, to the west and from the Engineering Walkway, a covered pedestrian space running north-south that links Building J03 with other Engineering School buildings and facilities.

An open landscaped space to the north is to be redeveloped as an external circulation space. The open car parking area to the south shall be landscaped.

The building redevelopment will not increase the height of the building – existing roof level 58m – but will increase the bulk by increasing the north building height .

There are no residential buildings within the university boundaries and the nearest residential boundary is in Shepherd Street – some 70m to the east. Lighting impact on these residents would principally be from interior lighting and is therefore not immediate or obtrusive within the terms of AS 4282 , Control of the obtrusive effects of outdoor lighting.

The proposed building is depicted in the attached architect impressions showing the effect as viewed from within the university grounds.

Interior Lighting

Spill from the internal lighting from laboratories and circulation areas around the large atrium will be screened by façading that extends around the new north building.

The spaces would be occupied during the day and also into the night up to the time schedule set for the lighting control. Occupancy detection is applied to switch lighting as the spaces become vacant.

The attached architect impressions depict the proposed extensive façade screening.

Landscape lighting

Landscaped or external circulation lighting will be incorporated in the open spaces to the north and south of the building. The selection of luminaires will be in accordance with Category P7/P8 AS/NZS 1158.3.1, Lighting for roads and public spaces, as suitable for safe pedestrian movement.

In particular any pole mounted lighting will comprise flat glass luminaires, and any supplementary lighting provided at steps will be of a type that directs light downwards, so as to control obtrusive lighting above the horizontal plane in accordance with the guidelines given in AS 4282

Roadway lighting

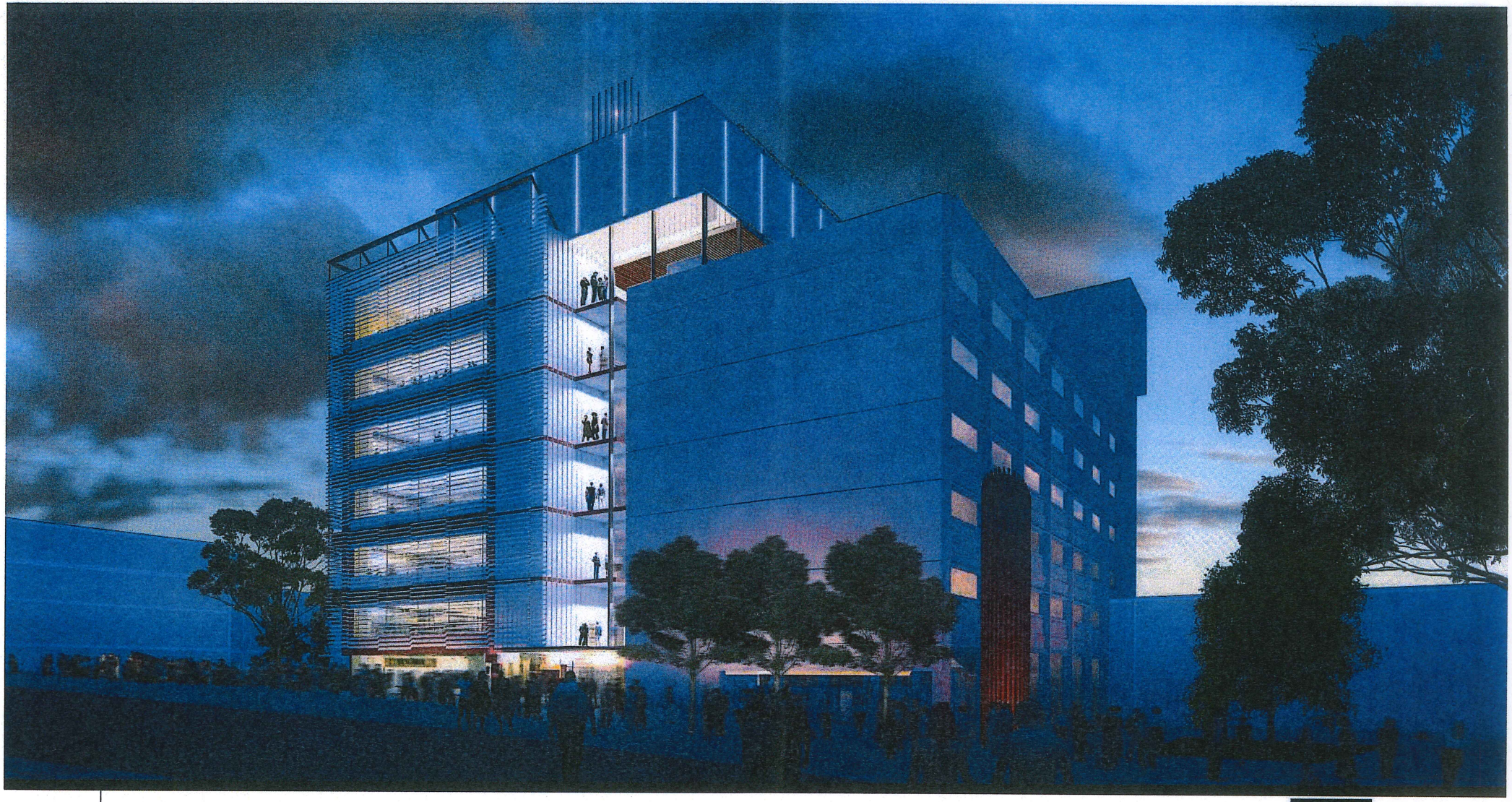
Pole mounted lights will remain in Maze Crescent (west) and Blackwattle Creek Lane to provide for low speed vehicle and bicycle traffic within the university grounds. While these luminaires are not intended to be replaced or affected by the new construction, the nominal design criteria would be expected to be Category P2/P3 to AS/NZS1158.3.1, Lighting for roads and public spaces.

Façade lighting

No lighting is being applied with the intention of floodlighting the building or to highlight the façade.

Roger Sharp
Engineering Manager
STOWE AUSTRALIA PTY. LTD.

Attachments: Architect impressions



LAING O'ROURKE COX