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Attn:- Mr Nick Dillon

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Dear Nick,

**University of Sydney – Health Precinct Stage 1
Health Precinct SSDA Submission
SECTION 3 BUILT FORM & URBAN DESIGN - CRIME PREVENTION**

Our strategic design approach utilises the well-established methodology of 'Crime Prevention Through Environmental Design' or CPTED.

This takes into account a wide range of environmental factors, including natural surveillance, effective lighting and the use of natural materials or landscaping to create effective barriers in order to 'harden' the facility's risk mitigation capability without creating an overt reliance on 'high security' equipment and devices that can alter the nature of the University community engagement in and around the space.

CPTED is the effective design, maintenance and use of the build environment to reduce the incidence and fear of crime. The primary aim is to design the physical environment through designation and definition in order to produce behavioural effects that reduce opportunities for crime to occur.

The CPTED security design emphasises on the design and use of space rather than on denying access to a crime target. The application of CPTED on this project is multifaceted, and creates synergy between the following four basic principles of the methodology:

- Natural access control
- Natural surveillance
- Territorial reinforcement
- Management and maintenance.

Natural access control and surveillance strategies limit the opportunity for crime. Territorial reinforcement is an expression of proprietorship and it gives users a sense of boundary and control. Management and maintenance will ensure continued effectiveness of CPTED features to facilitate crime deterrence.

Our design strategy considers the facility's integration into the wider precinct, including the extension of lighting and security infrastructure beyond the building perimeter to recognised pedestrian corridors.

Some general features related to CPTED and external security for the University follow.

1. As vehicles are expected to access pedestrian areas the following will be provided:

- Accessible, legible and clearly defined demarcated paths for both vehicles and pedestrians

- To prevent vehicle borne attacks static bollards/ landscaping features/ fixed seatings will be provided around the building to demarcate and to define a no go zone for vehicles around the building façade
2. As a clear definition of the boundary is not readily achievable (and possibly not desirable), the provision of architectural features for territorial reinforcement is proposed. Use of landscaping, art, signage, screening and fences to define and outline ownership of space especially important as the area is bounded by 24-hour operating spaces managed by others.
 3. Landscaping features, plantings, architectural design features and static signs will be used to clearly guide public or patrons to building entrances and exits. The landscaping features, plantings and static signs around the building will be designed to allow natural surveillance from inside and to prevent its use as weapons or concealment spaces.
 4. Building design will seek to eliminate climbing points including toe-holds, external pipe work and easily accessible louvres.
 5. The external lighting design will avoid poorly lit spaces, blind spots and too bright lighting that create glare and deep shadows. It is understood that the University operates into the night, so lighting and natural surveillance will be key considerations with respect to creating a safe and secure facility as part of this project.
 6. Use of building materials and finishes that are of an appropriate quality in a manner to reduce opportunities for graffiti and vandalism, facilitate cleaning and replacement and avoid illegal access to the building.
 7. The local utility facilities including meter boxes, air-conditioning plant and other services plant areas will be located within a secure building/enclosure to facilitate protection and mitigate against tampering.

Electronic security services will be provided to meet the requirements of the new project, leveraging existing campus wide systems and headend equipment. Services will include access control and intruder detection, CCTV monitoring, duress alarms, assistance points and intercoms.

The Security Services for the facility will be designed in accordance with the University of Sydney standards.

Yours sincerely,
UMOW LAI



David Uhlhorn
Director