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10 March 2016

Richard Crookes Construction Pty Ltd
214 Willoughby Road
NAREMBURN NSW 2065

Attention: Mr. Z Stepanovski

Dear Zoran,

RE: ITEMS 13. UTILITIES

Job No: 150371

Preparation of an Infrastructure Management Plan in consultation with relevant agencies

Water, Gas and Sewer

This would involve submitting an application to Sydney Water, for this to be undertaken Sydney Water requires a Development Application number otherwise Sydney Water will not undertake their assessments on the infrastructure. The application is known as a Section 73 Notice of Requirements (NOR).

Alternatively while waiting for an approved DA we can approach Sydney Water and request a feasibility study. The feasibility study will indicate the implications to their infrastructure and whether a connection maybe made.

In lieu of this we will be connecting to existing Sydney university infrastructure, Water and Gas services connection along Eastern Ave and Sewer connection along Barff Road.

Power

A new surface chamber substation is proposed to be developed immediately adjacent to the proposed LEES1 development in the basement level of the existing Carslaw Building along Barff Road. This shall provide electrical power to the LEES1 precinct, as well as surrounding structures, including buildings F07 (Carslaw), F09, F19, and F23.

The overall electrical supply capacity of this new substation shall be 4.5MVA (6000A). The electrical maximum demand for the LEES1 facility as is presently predicted, shall be 2500A. This value is expected to reduce as the electrical design is further refined.

An application for connection to the Ausgrid network has been submitted, and receipt of a design information package is pending. The expected lead time of the completion of the substation design is approximately six (6) months from the time of writing.



Preparation of an integrated water management plan detailing proposed alternative water supply

The current proposal does not have any alternative water supply. The water supply to the building will be served by mains potable water from Sydney Water infrastructure. The end uses will include:

- Hot and cold potable water
- Non potable lab water
- Cooling tower replenishment
- Toilet flushing

Sewerage will be disposed of to the mains sewer connection in Barff Road.

Yours sincerely,

A handwritten signature in black ink that reads 'ABagnall'.

Andrew Bagnall
Associate