Bonacci Group (NSW) have been engaged by Health Infrastructure NSW to provide Civil and Structural Engineering services for the above project. We make the following comments with regard to Sediment Control, Stormwater Management/Flooding, WSUD and Energy Conservation and Efficiency, to address the comments received from Authorities:

- There is an existing stormwater system that drains the eastern end of Barber Avenue. This system passes through Hospital land to Somerset Street – an easement is to be created over the pit and pipe system that drains the public road.

- A 20kL rainwater tank is proposed to drain the western half of the new building roof. This rainwater is to be reused for irrigation purposes only to reduce potential risk of contaminated water within the hospital building (in accordance with Health Infrastructure practice). This has been modelled in MUSIC to ensure that Council Water Quality requirements are met. The results are attached to the updated SSDA Report (Rev 6)

- A Soil and Water Management Plan has been prepared as part of the SSDA submission. The Plan has been prepared in accordance with Landcom Soils and Construction “Blue Book”. Implementation of this Plan will minimize risk of polluting water during construction of the proposed development.

- The proposed new building is located in an area that is within the College, Orth and Werrington Creeks Catchment Overland Flow Flood Study (Revision 3, dated 9 November 2016). The identified flood levels adjacent to the north east of the
The proposed building are RL 47.5m AHD (1% AEP event) and RL 49.0m AHD (PMF event). The proposed building floor level is RL 49.02m AHD. The building is protected to the PMF level in accordance with the New South Wales Floodplain Development Manual (which states that “consideration should also be given to using the Probable Maximum Flood (PMF) as the Flood Planning Level when siting and developing emergency response facilities”). The building satisfies the Penrith City Council requirement to “adopt design storm events larger than the 1% AEP design storm event). The Great Western Highway provides one of several access routes to the site, and is flooded in the PMF event at the north-eastern corner of the site – signage is to be provided to guide the community and health services to avoid this route in major flood events.

Yours Sincerely

BONACCI GROUP (NSW) PTY LTD

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