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Port Macquarie Base Hospital Expansion

Outline of Stormwater Design Principles for Part 3A Application

The following outlines the principles of the stormwater design for the Port Macquarie Base Hospital expansion project.

The project is divided into two phases, early works car parking and services relocation and main building works. This statement provides a brief outline of the Main Building works associated with the Part 3A application and is provided to give an understanding of the stormwater concept for these works.

Main Building Works

The total area of the building works for the development will be constructed over existing areas of soft landscaping of approximately 4,000m2. These buildings are essentially located to the western and northern areas of the site and stormwater runoff will be directed to the existing detention basin. This represents an increase in the volume of flow to be handled by the existing detention system of less than 10%, and at a broad level it appears that the existing construction is capable of handling this additional flow.

This has been confirmed through review of the Drainage Strategy report prepared by Walch & Roberts for the construction of the radiotherapy facility in 2005, which indicates that there is ample capacity in the existing system to accommodate significant increases in the hard stand area on the site. Discussions with Council officers have also confirmed this approach.

Preliminary discussions with Council officers on 16th November 2010 and at further discussions with Council on 30th March 2011 and 20th October 2011 have also confirmed this approach.

The stormwater system has been designed for all storm events up to the 20 year ARI to be carried by the in ground stormwater network and typically for events up to 100 year ARI to be via overland flow. The exception to this is the existing services yard area and tributary areas which becomes land locked due to the arrangement of the new building and overland flow to the detention basin cannot be achieved, due to this the stormwater drainage for events up to 100 year ARI for this area are via an in-ground drain/culvert.