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13/11/20

Flood Compensation Strategy

As part of the developing works on the scheme it is proposed that the attenuation basin originally formed to serve unit 1 will be reconfigured as shown in drawing number 065646-CUR-00-ZZ-DR-C-04905. This detail a piped connection from the existing beck to a 1600m3 basin with an invert of 94.700m AOD and a Rim set at 97.033, during the various flood events details on drawing 065646-CUR-00-ZZ-DR-C-04904, we can confirm that the maximum volume loss as part of the unit 1 development is 839m3 for the 1:1000 yr event with a TWL of 97.22m AOD, although this is higher than the rim of the basin it confirms that the total volume of 1600m3 is more than adequate and as such is providing more compensation than required for the development.

The connection to the beck is via a ø300mm concrete pipe under the field at a minimum depth of 600mm (as per building regs minimum cover with landscaped areas) with proprietary concrete headwalls at the basin and beck. The beck outfall will have a trash screen to reduce the blockage risk and this is further mitigated by the pipe being laid at 1:168 which provides an ample hydraulic velocity to ensure self-cleansing (1m/s at 1/3 flow)

Owen Townsend
Senior Engineer
For and on behalf of
Curtins Consulting Ltd