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REF: 10MB4282.LO1

August 10, 2011

Ashfield Council

Property: 46-56 Liverpool Road, Summer Hill –

DA Number: 10.2011.66.1

Re: Stormwater drainage

Dear Sir;

In reply to the development assessment report dated 25 July 2011 regarding stormwater; the following items have been addressed accordingly;

1. OSD calculations as requested are attached. The calculations provided prove the proposed storage volume is adequate. Total site discharge is also shown in the calculations.
2. The development partly drains to the 300 x 250 box culvert in Liverpool Road via the existing kerb inlet pit. The culvert drains downstream toward Parramatta Rd. We trust Council has a full asset record of pipe and pit system.
3. Separate calculations for the areas bypassing the OSD are shown in the DRAINS calculations. The area bypassing and draining to Gower is minimal. This area is lower than the OSD.
4. No calculations for the rate of stormwater discharge are required for the existing building draining to Grosvenor Crescent as there is no increase in impervious area and the building remains unchanged. This area is treated as a separate unchanged catchment. This catchment apart from the unchanged building is mainly landscaped.
5. Any information regarding the drainage easement for the existing building draining over the lot facing Grosvenor Crescent can be obtained from the applicant. As part of the purchase an easement was provided.
6. The car park basement pump out discharge has been considered and included in the design calculations. The pump out system bypasses the OSD storage tank however the total site discharge remains less than the pre development allowable flows.

Should you have any further queries do not hesitate to contact the undersigned.

Yours faithfully,

Mark Anthony Boudib
MIEAust, CPEng, NPER
Director