

28 May 2019

Carey Lee
13 Minkara Road
Bayview NSW 2104

c/o kinga@bsbd.com.au

Hydraulic engineering design in support of the proposed development at 13 Minkara Road

Dear Carey

Please find attached the drawings describing the stormwater management plan for the proposed development at 13 Minkara Road, Bayview. The stormwater management plan is described in the following Stellen Consulting drawings:

DR-000	Revision 0	-	Legend
DR-100	Revision 0	-	Pipe Layout – Proposed Garage
DR-102	Revision 0	-	Roof Layout – Proposed Garage
DR-110	Revision 0	-	Pipe Layout – Existing Buildings
DR-200	Revision 0	-	Details

The stormwater management plan conforms to the relevant requirements of the following:

- *Australian Standard AS3500.3 – Plumbing and Drainage: Part 3 Stormwater Drainage*
- *Northern Beaches Council Pittwater 21DCP Part B5.7 – Stormwater Management – On-Site Detention*

The proposed development discharges directly to an existing drainage channel through the site which is subject to overland flow during the 1% AEP rain event. The use of an on-site detention (OSD) system to attenuate flows from the proposed development was investigated but eliminated as a result of the overland flow. On this basis, the application of OSD is not recommend.

The proposed stormwater management plan as described in the drawings above is recommended as a safe a practical solution to support the development.

Kind regards,



Logan English-Smith
Engineer

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Drawing List

Architectural Plans A101 through to 113 by Blue Sky Building Designs,
all dated 25/03/2019

Survey by Clarke Dowdle & Associates

Ref: 20055

Date: 21/04/2016