



08 August 2018

General Manager
Northern Beaches Council
725 Pittwater Road
DEE WHY NSW 2099

Dear Sir/Madam,

Re: Stormwater Drainage - 22 Marine Parade, Avalon

With reference to the DA for the above site and Council's correspondence dated 7 August 2018, please find attached a copy of the revised Stormwater Management Plan as requested.

The plan has been revised in relation to the Council comments as follows:

1. Additional information has been added to the plan regarding the charged line to the street
2. A complicated and awkward analysis of the Marine Parade inlet pit is not necessary. Flows that bypass the inlet pit are retained in the same sub-catchment as the subject property prior to development and the status quo is maintained.

In any case the 1 in 100 year discharge into the Marine Parade roadway is only 6 l/s which is not considered significant.

3. Splitting the discharge of site flows between the roadway and the absorption trench is beneficial in that the roadway flows will drain to Avalon Beach and flows to the rear of the site ultimately into the Careel Creek catchment

As the Careel Creek catchment is the much larger of the two, reduced flows into this catchment will result in reduced incidence of flooding which should be seen as a beneficial outcome as a result of the site development

Should you require any further information please contact the undersigned.

Yours faithfully

D M Schaefer - Director
B.E. Civil (Hons) M.I.E. Aust

