

09 July 2016

Mr Sean Khoo
Warringah Council
Civic Centre
725 Pittwater Road
DEE WHY NSW 2099



Civil & Structural
Consulting Engineers
ABN 55 156 273 755

Our Ref: 16058
Council Ref: PLM2016/0020

STORMWATER AND OSD DESIGN

PROPOSED ALTERATION & ADDITIONS: ADMINISTRATION BUILDING
JOHN COLET SCHOOL, 6-8 WYATT AVENUE, BELROSE

This proposal is a 30m² addition to the 180m² Administration Building. The impervious addition will cover an existing pervious area. On Site Detention is proposed to limit the proposed runoff from the building back to the predeveloped runoff.

The property has an area of around 1.2 Ha, through previous development on the property, the site has two On Site Detention systems: a tank and an above ground basin. Consideration was given to connecting this proposal to the Detention Tank – changing its orifice plate and increasing its volume. However, its upstream location made the connection problematic and increasing its volume was difficult. Therefore, the proposal is a small stand alone OSD system.

The DRAINS urban stormwater drainage program has been used to model the system, the pertinent model diagrams are attached

The assessed area is 210m², being the area of the proposed building; the addition is 30m² to the existing 180m² building. The Permitted Site Discharges (PSD) are:

$$\text{PSD}_{20} = 12 \text{ l/s}$$

$$\text{PSD}_{100} = 15 \text{ l/s}$$

The Site Storage Requirement (SSR) is 1.0 m³, with an orifice diameter of 94mm

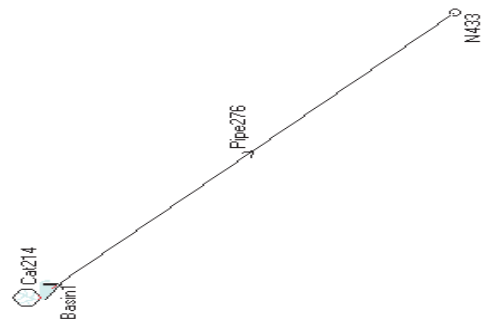
Should you have any queries regarding this matter, please do not hesitate to contact the undersigned.

Yours Sincerely,

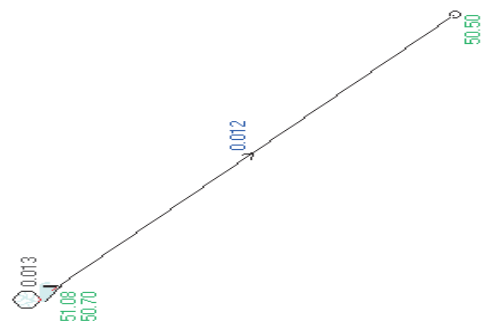
CPM Engineering

A handwritten signature in black ink, appearing to read 'C. Morris'.

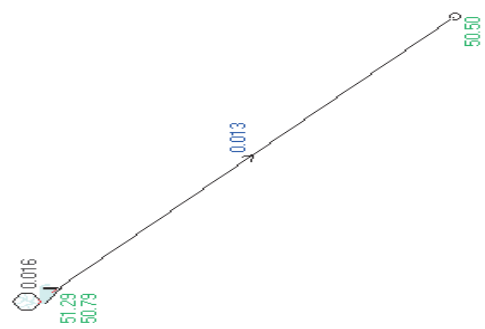
Chris Morris
BE(Hons) MIEAust CPEng NPER
Accredited Certifier



Exist
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