

**INTEGRATED WATER MANAGEMENT PLAN TO BE READ IN CONJUNCTION WITH THE REPORT ON EXISTING DRAINAGE INFRASTRUCTURE AT 100 ETON RD, LINDFIELD, BY BIRZULIS ASSOCIATES, DATED 19 OCTOBER, 2017**

**Introduction**

As outlined in the Report on Existing Drainage Infrastructure by Birzulis Associates (19 October 2017), the proposed development at 100 Eton Road, Lindfield is not expected to increase the loads on the existing stormwater infrastructure at the site.

Notwithstanding this, the development includes 4 x 1,100 litre rainwater tanks to mitigate any additional loads from the covered outdoor learning centre (COLA) proposed to the south of the existing building.

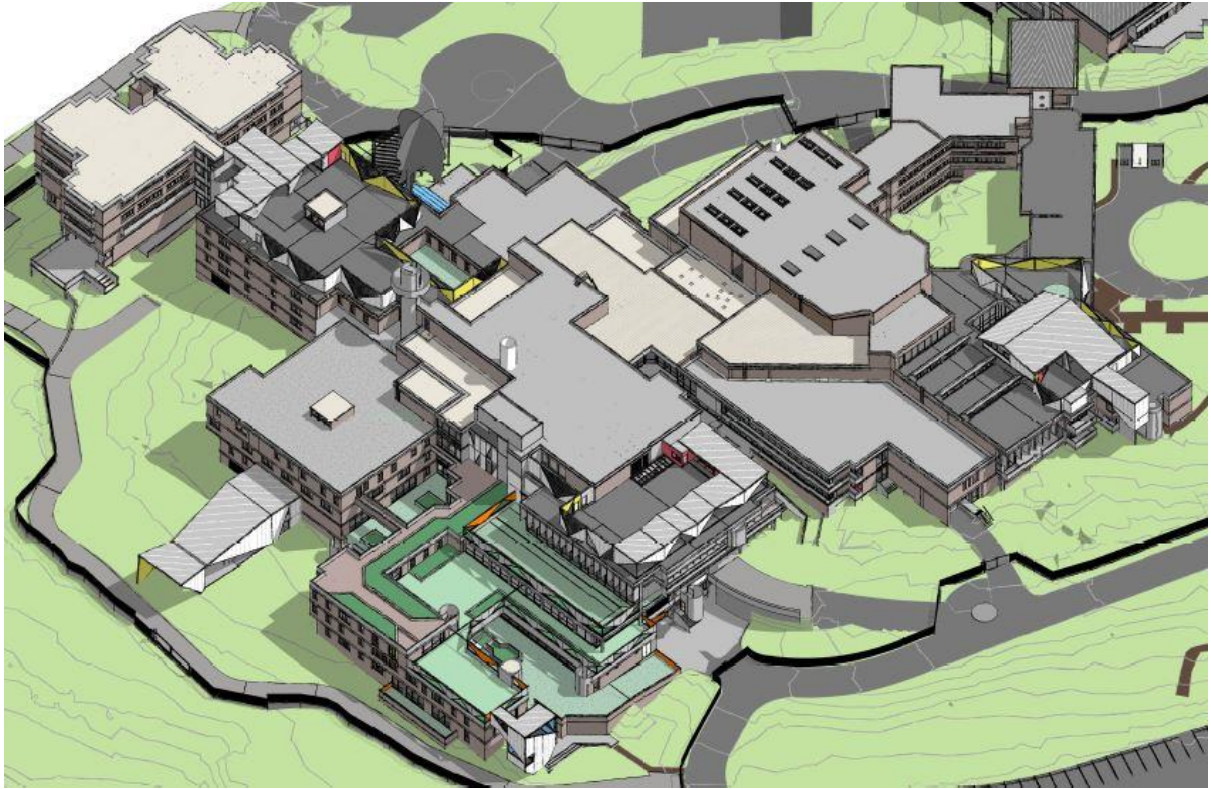
Item 14 of the Secretary's Environmental Assessment Requirements (SEARs) states:

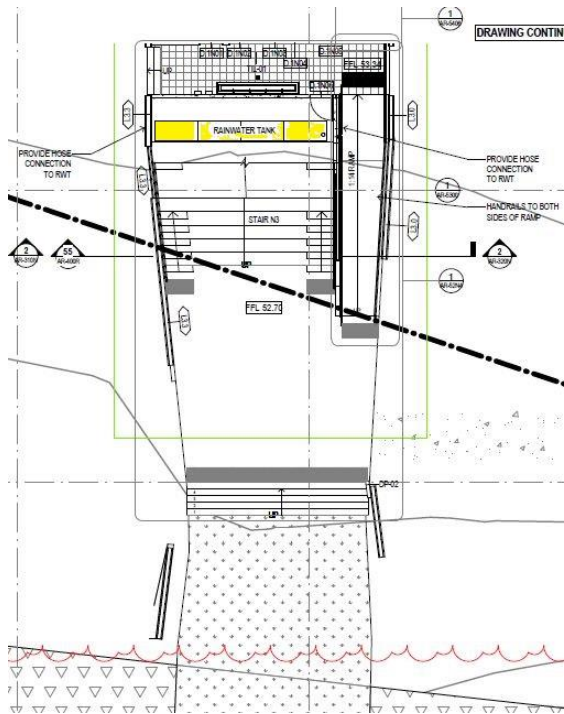
*Prepare an Integrated Water Management Plan detailing any proposed alternative water supplies, proposed end uses of potable and non-potable water, and water sensitive urban design.*

As the proposal does not intend to alter the existing stormwater infrastructure, the introduction of new water sensitive urban design (WSUD) is not proposed. This Integrated Water Management Plan is therefore limited to the new rainwater tanks. proposed works.

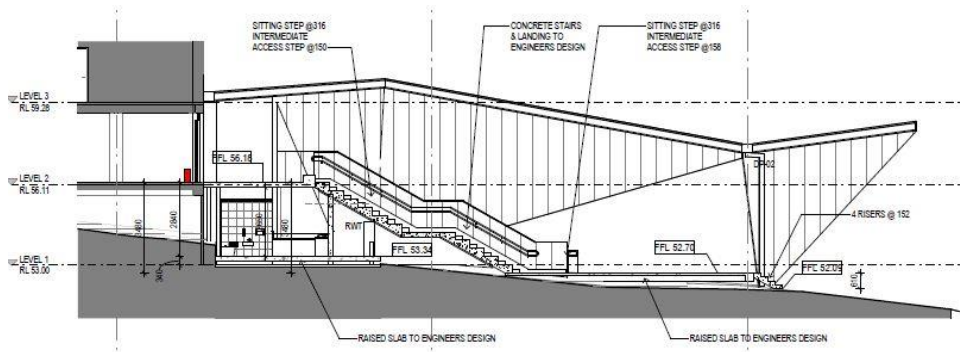
**Proposed Drainage Works**

The proposal involves the installation of 4 x 1,100 litre rainwater tanks in an area below the COLA concrete seating which is located on the ground lawn area to the south of the building. The drawings below describe the location and structure of the COLA enclosure.

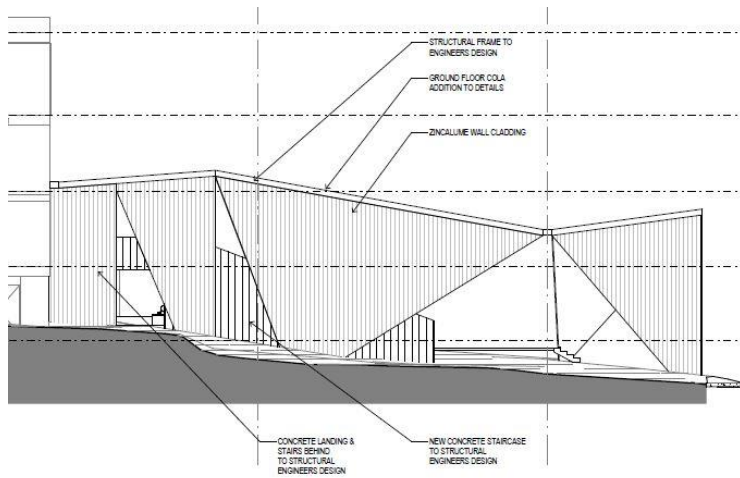




Plan COLA showing rainwater tanks below concrete seating



Section and elevation of COLA showing rainwater tanks below concrete seating



### **Proposed Connection and End Uses**

The rainwater tanks are fed by rainwater collected from the roof of the COLA and channelled via downpipes into the tanks. The rainwater tanks will provide water for the irrigation of the lawn areas and will also assist students to learn about sustainability by demonstrating the method of rainwater collection and distribution. Irrigation of the lawn areas will be via a micro drip feed irrigation system with time control.

Planting on the roof terraces will be low water demand and irrigation of these areas will be via time controlled sub-soil drip irrigation in order to further minimise water consumption and costs.