ORAN PARK HIGH SCHOOL
+ PRIMARY SCHOOL

Landscape Works
+ Water Sensitive Urban Design

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FEBRUARY 2017

INTRODUCTION

The new Oran Park High School is proposed to be located at the corner of South Circuit and Holden Drive, adjacent to the existing primary school. Refer to Figure 1 for the location of the site. The new school will eventually cater for 2,000 students in Years 7 to 12.

The existing Oran Park Public School will be expanded to cater for 1,000 students from Kindergarten to Year 6.

EXISTING SITE

The site of the proposed high school is adjacent to the existing Oran Park Public School. The combined site for both schools is bounded by South Circuit to the west, Holden Circuit to the south, Dick Johnson Drive to the north and Julia Creek to the east. The site falls downwards towards the north-east corner.

The primary school is generally located along the western and northern boundaries of the site, with the buildings adjacent to South Circuit and the sports field along the northern side.

The part of the site in which the new high school will be located is currently undeveloped, with no formal drainage system.

PROPOSED DEVELOPMENT

The works proposed for the site consist of a new high school and associated facilities as well as expansion to the existing primary school. Buildings will be located along the western and southern boundaries. Additional wings will extend to the north, with large courtyards between. A hall will be located on the eastern part of the site, with a parking area between the hall and the eastern boundary.

STORMWATER MANAGMENT IN THE LANDSCAPE

Central to the landscape design for the proposed High School is the integration of the surface drainage of large areas of paved areas, to bio retention zones in the landscape, where macrophytic reeds and plants are proposed. Stormwater will drain by overland flow to pits or swales, depending on the location.

The western courtyard will drain to a bioswale/raingarden located to the west of the seating steps. These rectangular `wetland forests' will provide visual screening and shade to the major outdoor seating steps to the west of the building.

The central courtyard will drain to a raingarden / bio-retention basin located in the northern part of the courtyard. This circular bio-retention basin lies to the north east of the main paved quadrangle, visually terminating the avenue of Crepe Myrtle trees in the paving.

The proposed plants and planting densities to these areas will play an important role in stormwater treatment, with species selection based on aesthetics, biodiversity and ecological value.

INTEGRATED WATER MANAGEMENT

The following measures are provided to minimise water usage:

- Plants with low water requirements, and suitable for the local climatic conditions have been selected for the project.

- Run off from roofs collected in rainwater tank(s) will provide irrigation for nearby landscape areas