W25886

Calamvale Community College

New learning centre

Calamvale Community College is committed to providing future-focused learning environments to support the development of their students into curious, creative and clever members of the community.

Calamvale, Queensland
$8.3M
March 2021 – June 2022
Design and construction

Future focus
Live environment
Laboratories
Services

Project scope

- Design and construction of a new $8.3M, 2 level, 8 space learning centre:
  - 4 x GLA's, 2 x robotics laboratories and 2 x design studios, a flexible collaborative space, staff work area, amenities and an open undercroft for future development of a further 8 learning spaces.
  - A passenger lift within the General Learning Centre building
  - New interconnecting covered walkways, ramps and landscaping
  - A paved 44 staff/student carpark with access road
  - Extension of existing services including CCTV, security systems, communications and ICT infrastructure.
  - Diversion and upgrades to stormwater pipework, drainage, fire hydrant ring main, hose reel pipework, sanitary drainage and water connections.
  - A new fire hydrant diesel pump unit

The college required power flow to some existing buildings during the Christmas holidays, which was the designated electrical main switchboard replacement works period (no mains power). To allow the school to maintain their operations during the Christmas holidays, Wiley connected temporary generators to the relevant building's electrical distribution boards.

Department of Education raised concerns with compliant stair balustrades being a potential fall hazard for students. Wiley designed and installed full height (floor to roof) perforated screens between the flights of stairs, eliminating their fall hazard concerns, ensuring the perforation sizes were small enough that they weren't a finger entrapment issue.

Telstra & NBN infrastructure was identified to be within the construction works zone. There was too much risk with trenching and the amount of existing inground services (i.e. high voltage mains) within the new infrastructure path. Wiley, Telstra & NBN worked collaboratively to develop and implement a plan to redivert the infrastructure outside of the construction works zone, using a boring machine.

Business value to client

By incorporating a stormwater detention tank into the design, capturing stormwater runoff from the new GLA buildings and walkways, pressure on the school's existing stormwater infrastructure was minimised, creating long term benefits for the client and the environment.

Wiley applied in-depth knowledge of local building codes, zoning regulations, and stormwater management requirements. ensuring the design complied with authority regulations.

Calamvale Community College will be able to meet the increasing demand for their quality educational programs, as the school-aged demographic continues to increase within their catchment area.

Partners and consultants

Arklab Architecture | Jeremy Ferrier (Landscape Architects) | Russell Jones (Hydraulic Services) | Leckton Linings (Ceilings and Partitions) | Bull Group (Civil)