

## 12 Apostles Visitor Amenity Centre



### Location

Port Campbell, Australia

### Client

Parks Victoria

### Project Value

AUD\$3.0 Million

### Office Responsible

Cardno Grogan Richards

### Responsibilities

Civil, Structural and Traffic Engineering

### Contact

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### Project Scope

Cardno Grogan Richards, as part of a design team lead by Tract Consultants provided Civil, Traffic and Bridge design services for a new car park and visitor amenity centre at the 12 Apostles, catering for over 300,000 visitors per annum.

Parking facilities for the project consisted of 160 sealed car parks, 12 bus parks, 12 car trailer parks and an unsealed overflow parking area for 90 cars.

In order to reduce impact within the national park, the above facilities were located in an area of freehold grazing land to the north of the Great Ocean Road. This required the construction of a pedestrian underpass beneath the Great Ocean Road. In order to reduce construction impact on the adjoining native heath, Cardno Grogan Richards recommended that the approach paths to the underpass walkway be excavated out with vertical soil nail retaining walls adjacent the pedestrian accesses and at bridge abutments. Bridgeworks over the underpass consisted of a 7.6m single

span concrete bridge with a deck width of 13.5m to cater for two through lanes and a turn lane.

Roadworks for the project included widening to The Great Ocean Road to provide left and right turn lanes into the site and construction of access roads and the car parks. To minimise the visual impact of the visitor centre and car parking from the road, the site was designed in a series of stepped, tiers benched into the site. Drainage from the carpark was collected via a series of stone and grassed swales in order to provide improved water runoff quality. Flows were then piped to a wetlands area.

With no mains water supply available to the site this wetlands, in combination with a sewer treatment plant, documented by Woodward Clyde, allow the recycling of waste water and the eventual discharge of clean effluent from the site.