

## Phu My Bridge, Ho Chi Minh City, Vietnam



The 2.1 km Phu My bridge crosses the Saigon River in Ho Chi Minh City, Vietnam and comprises a 705 m long concrete cable stayed section with long approach span structures at each end.

The bridge forms part of a new ring road around Ho Chi Minh City. The ring road will be an important transport link from the southern Mekong delta region to the central and northern parts of Vietnam.

The superstructure is of overall width 26.2 m comprising four traffic lanes, two motorcycle lanes and two footways.

The three main spans comprise a main span of 380 m with side spans of 162.5m and the following features:

- main spans are continuous and integral with the tie-down piers;
- deck cross-section comprises an open grillage of cast-in-place longitudinal edge girders with transverse cross-beams supporting a reinforced concrete deck slab;

- towers comprise H shape reinforced concrete frames with stay cables anchored in the towerhead;
- the deck is supported by two planes of stay cables anchored in precast anchor pods integral with the edge beams;
- the towers and tie-down piers are supported on large diameter bored piles.

Cardno, in association with Leonhardt Andra & Partner, Provided the construction engineering for the main cable-stayed spans - longitudinal stage analysis for the deck, tower stage analysis and precambers.

Cardno carried out the design of the approach viaducts, built using 40m span Super T girders. Each viaduct are approximately 650m in length.

Cardno also provided the design of the major temporary works including the deck formwork travellers, pier table support falsework, precast soffit forms for the two main towers, tower leg struts, access bridges to the two main towers and temporary tie-down cables.



### Technical Details

Design: Cable Stayed main spans + Super T approaches.

Project start/finish dates: January 2007 - September 2009

Cost: Approx AUD\$150m

Total length of bridge: 2.1km

Length cable stayed spans: 705m

Overall Width: 26.2m

Clearance for shipping: 250m x 45m

Height of towers: 147m

### Contact Details

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