



Port Talbot Peripheral Distributor Road - stage 1c and 1b

Two stages of the PDR, for the construction of a total of 4km of dual carriageway and on-line widening of an existing arterial route, which required extensive live traffic management, public interface and environmental sensitivity to the adjacent wetland environment.



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A fully integrated partnering approach was developed with the Client. Methods of working, with value engineering and innovative inputs to achieve design development, were aimed at achieving best value in construction.

Client:

Neath Port Talbot Council

Design and Build Team:

HOCHTIEF/Griffiths JV

Form of contract:

ECC option C Target Cost.

Construction period:

1c 2004-2005

1b 2005-2007

Total combined value:

£20M

The project called for demolition of several structures including a railway branch line bridge over a live carriageway. A complex mix of new structures included two road bridges over the tidal river estuary, a new structure spanning the dock feeder system, five new footbridges and two new underpasses. These were all delivered to target cost and project programme.

Much of the works within the river Afan floodplain required a highly environmentally sensitive approach, with careful management and implementation of the Construction Environment Management Plan throughout the works.

Remediation of contaminated ground, reprocessing of insitu materials to enhance their performance in construction, and the composting and encapsulation of Japanese Knotweed were undertaken

Where the works are in areas of made ground overlying sands and clay with a high groundwater table, embankment designs incorporate provision for pore water pressure relief and settlement periods. Novel carriageway designs in these areas include extensive use of reinforced surfacing, to allow for a shallower construction depth. In addition recycled materials were used as sub-base for many of the footpaths.