

Copnor Bridge Replacement

Client :
Portsmouth City Council

Designer :
Atkins Rail

Location :
Portsmouth

Date :
2005 - 2006



*Considerate Constructors
Silver Award*

*Portsmouth City Council – Community
Involvement Awards
Best Project*



The scheme

The project involved the replacement of Copnor Bridge, a three span road-over-rail bridge with a new on line structure.

The site was very constrained by housing and as Copnor Road is one of the major road arteries in Portsmouth, traffic management and community liaison were of the utmost importance

Alternative design helped to keep possession and road closures to a minimum

The alternative design offered by BAM Nuttall involved retaining and strengthening the original abutments with the installation of ground anchors.

Demolition and reconstruction

Demolition of the existing steel deck structure was followed by the installation of four cill beams, twenty-two 20m long pre-cast beams and two edge parapet beams. This operation took place in a single 52-hour possession and was completed 13 hours early.

The demolition and reconstruction utilised three cranes undertaking upwards of forty lifts to dismantle the existing deck and a further thirty lifts to position the new pre-cast components.

The right approach to traffic management was vital to the success of this project.

A road closure of six months enabled the works to be undertaken in an enclosed site without health and safety risks to the public. A temporary footbridge was provided for pedestrians and cyclists.

An excellent health, safety and environmental record

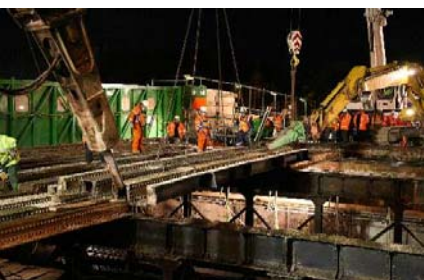
A proactive campaign informed the local community throughout the scheme. Publicity included significant use of the local media and countdown signs to the day of the road closure.

Community involvement

An innovative parapet design competition resulted in "buy-in" from the local community. The winning designs were converted into murals and installed on the bridge parapets. In addition, demolition waste was used to help rejuvenate an adjacent recreation area.

An excellent example of the benefits of team working and community involvement at its best.

Utilising the partnering ethos, the project team was able to drive through innovation, devise a proactive community relations programme and deliver this complex project one month ahead of programme and 10% below budget.



*One of the bridge murals
designed by the local community*

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