

## Westfield Pill Bridge, Pembrokeshire



Westfield Pill Bridge carries the A477 over the Milford Haven basin  
the cross heads



Suspended scaffolding provided access to

### Teamwork Provided Best Value Solution

Westfield Pill bridge is a seven span reinforced concrete hollow section post tensioned bridge with a maximum height of 27 metres above ground level and an overall length of 260 metres. It carries the arterial A477 over the Milford Haven basin.

Inspection and assessment of the bridge revealed defects in the column head and at the connection between the bridge beams which required the earliest possible remedial action to be taken.

Balvac were approached by the consultant and invited to join the project team to develop best value solutions which could accommodate the many key drivers that the project posed.

At the initial technical meeting it is estimated that cost reductions in excess of £100,000 were achieved through clear communication of the key issues and innovation.

The preferred solution was the installation of a post tensioning girdle around the column head combined with vacuum assisted resin injection of the cracks and steel plate bonding across the beam stitch joints.

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Client</b>               | <b>Pembrokeshire County Council</b> |
| <b>Consultant</b>           | <b>Parsons Brinckerhoff</b>         |
| <b>Principal Contractor</b> | <b>Balvac</b>                       |
| <b>Value</b>                | <b>£440,000</b>                     |
| <b>Programme</b>            | <b>Jan. – Sept. 2000</b>            |



High level stressing work was executed without a single lost time incident

### Partnering Success

A cost reimbursable ECC form of contract was drawn up and negotiated between the client and Balvac.

The teamwork approach was maintained throughout the project and continued to deliver substantial benefits.

The open book process and demonstrable cost control together with the emphasis on safety and technical excellence provided the client with a cost effective, high quality solution.