

Concrete Repairs, Bridge Jacking, Bearing & Parapet Replacement & Cathodic Protection

Yanley Viaduct, Long Ashton, North Somerset

Client

North Somerset County Council

Project Managers

Faithful & Gould

Designers

Parsons Brinkerhoff

Value

£3.2 million

Works Commenced

August 2014

Works Completed

August 2015

Yanley Lane Viaduct or The Long Ashton Bypass was constructed in 1968. It carries the busy A370 dual carriageway over Yanley Lane and the main Bristol to Taunton railway line just south of Bristol City Centre.

The viaduct is a 12 span simply supported structure with a composite steel deck. The viaduct overall length is 298M with a width of 13.7M.

As part of North Somerset County Council's (NSCC) planned maintenance of its structures, the viaduct was identified as requiring significant refurbishment in 2013.

In June 2014, Freyssinet Ltd was appointed by NSCC as Principal Contractor for the refurbishment works.

The works to be undertaken were: re-waterproofing and re-surfacing of the deck, installation of new footways, parapets, mechanical deck joints and P4 terminal ends.

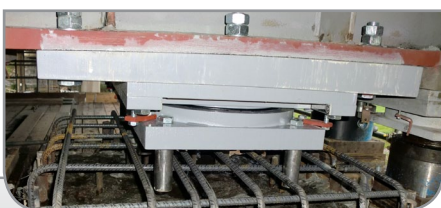
Below deck, all 48no existing mechanical bearings were replaced with new pot bearings designed and manufactured in-house by Freyssinet Ltd.

To facilitate the bearing replacement works, the deck was supported on a bespoke temporary corbel arrangement, clamped at the top of each pier. These temporary works were also designed in-house by our team of engineers.

Following the bearing replacement works, the entire steel deck was re-painted and finally a Cathodic Protection system was installed to the concrete columns supporting the deck.

The works also included the application of a new protective coating to the existing deck beams.

Following painting works to span 2 which carries the viaduct directly over Network Rail lines, the works were completed, on programme, on budget.



Freyssinet Ltd. Innovation House, Euston Way, Town Centre, Telford, Shropshire, TF3 4LT
Phone +44 (0) 1952 201901 Fax +44 (0) 1952 201753 Email info@freyssinet.co.uk