

## SDK/37 Thornton Viaduct, Bradford - Brickwork Repairs



General view of Thornton Viaduct (inset - grouting works)



Installation of Cintec Anchors



Brickwork repairs from cradle access

### Brickwork Repairs

Thornton Viaduct is located to the west of Bradford in West Yorkshire. The Grade II Listed 20 span masonry/ brickwork viaduct carries the dismantled Bradford to Keighley line over farmland, a golf course, a minor road, private garden and Pinch beck.

The viaduct is now used for the Great Northern Trail Cycleway which is route 69 of the National Cycle Network.

The structure is the responsibility of BRB (Residuary) Ltd. Balvac were awarded the works as part of the 3 year structures maintenance Framework contract for reactive and planned maintenance of structures in Northern England.

To undertake the works to the arch barrel a combination of scaffold and suspended cradles were used to provide access. An early inspection was carried out using a lorry mounted under bridge inspection unit.

Prior to the works being carried out a structural assessment was undertaken to determine acceptable of loading limits for the structure.

Works undertaken included:

- Brickwork replacement within the arch barrels.
- Remortatring of the brickwork and masonry.
- Installation of cintec anchors to stitch masonry voussiors to the brick arch barrels.
- Stitching and Grouting of areas of voided brickwork.
- Installation of stainless steel pins to tie in area of replacement brickwork.

Close liaison was maintained with the landowners though the project, in addition to the statutory notifications with the Environment Agency.

Client	BRB (Residuary) Ltd
Consulting Engineer	Jacobs
Principal Contractor	Balvac Ltd
Value	£350k
Completion	July 2009

## Balvac

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