



## Fiddlers Elbow Bridge

The Fiddlers Elbow Bridge consists of two separate bridge decks, each deck includes three supported spans which carries the A472 across the River Taff at the busy A470 Abercynon roundabout interchange. When the bridge was constructed in the early 1980's mining subsidence was anticipated and design provision made.

Griffiths were appointed to replace eight of the existing modular bridge deck expansion joints at the East and West abutments as well as the East and West Piers.

Works for this project involved:

- Construction of temporary junction arrangement at A4054 Travellers Rest
- Installation of traffic diversion/ traffic management
- Installation of temporary access scaffold beneath the bridge deck at joint positions
- Removal of existing deck joints (hydro-demolition) and replacement with new
- Re-waterproofing and resurfacing bridge deck
- Removal of temporary junction arrangements at Travellers Rest

Advanced works to facilitate the diversion requirements as a result of the bridge closure of the bridge to Eastbound traffic were required. Westbound traffic was unaffected and accommodated during the works by traffic management systems to concur with the North Deck and South Deck Joint Replacement.

The Client instructed a change to the scope of works which included; Bridge Street & Fiddlers Elbow Roundabout Widening Works, Sub Structure Drainage Improvements, Cattle Grid Repair, Additional Surfacing to extend to A470 Roundabout, Traffic Signal Works and Parapet Fence Repairs.

Works were completed to meet the set deadline whilst incorporating all the additional works instructed.

## Project Details:

### Client

Rhondda Cynon Taf County  
Borough Council

### Location

Treharris

### Completion Date

January 2017

### Value

£2.4m

### Contract

NEC Engineering and  
Construction Contract

## Key Project Aspects

- Bridge Deck Expansion Joints
- Hydro-demolition
- Traffic Management
- Roundabout Widening Works
- Surfacing
- Drainage