

# A534 Kingsley Fields Distributor Road and Sir Thomas Fairfax Bridge, Nantwich, Cheshire.

## Project Profile

**Client:** Bellway Homes (West Lancashire)/Cheshire County Council

**Designer:** Cheshire Engineering Consultancy

**Date:** 2003/7

**Value:** £6.0m



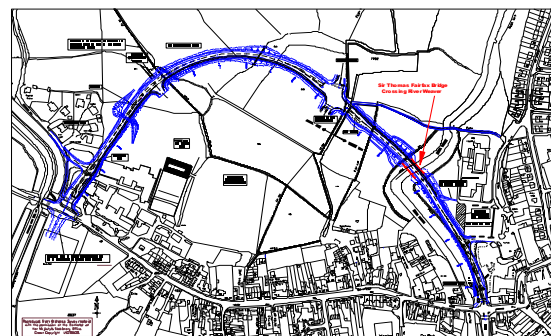
The scheme involved the following;

- Construction of a 1.5km link road to the North of Nantwich (becoming part of the A534) and built to trunk road standards. The link also provides distributor road access to the new 600 house Kingsley Fields residential development.
- 3 no. 4 way traffic light junctions.
- Construction of a 15.0m single span skewed arch bridge across the River Weaver – ‘Sir Thomas Fairfax Bridge’.
  - ◇ Main bridge span constructed from pre-cast arch beams, spandrels and parapets, faced with brickwork with pre-cast cap stones.
  - ◇ Sheet piled cofferdams and CFA piling to bridge abutments.
  - ◇ In-situ reinforced concrete pile cap and abutments.
  - ◇ Pedestrian walkway incorporated through each abutment with lighting and drainage.
  - ◇ Infill to bridge deck with foamed concrete, In-situ reinforced concrete deck and waterproofing.
  - ◇ Completion with flexible road construction, handrailing, lighting and landscaping to embankments.
  - ◇ Significant environmental and temporary works constraints associated with river crossing works.



The ‘Sir Thomas Fairfax Bridge’ over the River Weaver was awarded the 2004 Concrete Society Award for Small Civil Engineering projects, The Institution of Civil Engineers (NW region) 2004 Merit Award and the Institution of Structural Engineers (NW region) Small Project Award 2004.

- Significant interface with Nantwich town centre traffic and pedestrians requiring programmed traffic management and works sequencing, together with working in and adjacent to a large school with restricted working hours and maintenance of access to sports facilities.



A534 Diversion, Kingsley Fields, Nantwich  
Showing Position of  
‘Sir Thomas Fairfax Bridge’

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- 10,000m<sup>2</sup> bus and car park for secondary school.
- Design & construct a pedestrian subway crossing including lighting and drainage.
- Construct highway drainage, outfalls and surface water storage areas (SUDS).
- Contract included extensive diversion of existing mains and services to the tie-ins at each end of the scheme together with the management, programming and installation of new mains and services for the new areas of development.
- The site was a site of archaeological importance and required extensive investigation and careful excavation work.
- Successful contract carried out using partnering and teamworking principles with Client and Engineer.

In parallel with the link road contract the company was also engaged to carry out the construction of the main infrastructure elements of the new residential development including;

- Construct 1.0 km of estate roads, footpaths and cycleways to initial development of 225 units.
- Construction of foul & surface water sewers to development areas including off site outfalls.
- Install utilities and service connections to properties
- Construct foundations to apartment blocks, link blocks, semi-detached and detached properties, including rafts, double raft systems, strip footings and driven pre-cast piled foundations with ground beams.





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