

## A534 Kingsley Fields Distributor Road and Associated Development Infrastructure, Nantwich, Cheshire.

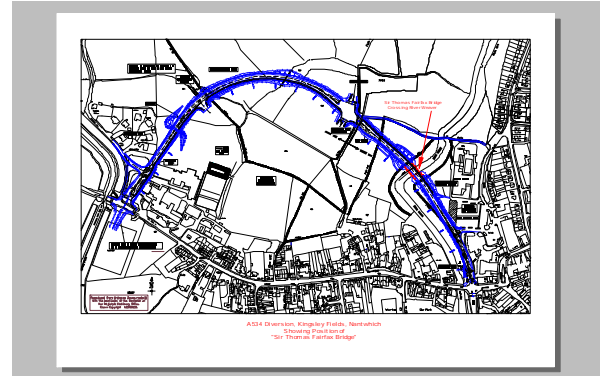
**Period** - 2003/7, **Value** - £6.0m

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

**Designer** – Cheshire Engineering Consultancy

The scheme involved the following;

- Construction of a 1.5km link road to trunk road standards to form part of the Nantwich northern relief road, also providing access to a new 600 house residential development.
- 3 no. 4 way traffic light junctions.
- Construction of 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. CFA piling and sheet piling to bridge abutments. In situ reinforced concrete pilecap 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 Institute of Civil Engineers ( NW region) 2004 Merit Award** and the **Institute of Structural Engineers (NW region) Small Project Award 2004**.

- Design & construct pedestrian subway including lighting and drainage.
- Significant interface with Nantwich town centre traffic and pedestrians requiring programmed traffic management and works sequencing, together with working in and adjacent to large school with restricted working hours and maintenance of access to sports facilities.
- 10,000m<sup>2</sup> bus and car park for secondary school.
- The contract included extensive diversion of existing mains and services at each end of the scheme together with the management, programming and installation of new mains and services for the new areas of development.

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- Construct highway drainage, outfalls and surface water storage areas.
- 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 residential development consisting of 225 unit
- Construction of foul & surface water sewers development areas including off site outfalls, ducting and service supplies to properties.
- Construct foundations to apartment blocks link blocks, semi detached and detached properties, including rafts, double raft system, strip footings, piled foundations with ground beams



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### Project Awards

