



PREVIOUS MAJOR RAILWAY CONTRACTS

- CTRL 105
Sprayed concrete to piles in the Thameslink box,
carried out for Costain O'Rourke, Bachy EMCOR Rail Joint Venture.
VALUE OF WORKS: £300,000.00
- CTRL 342
Sprayed concrete to piles in the Pepperhill Tunnel under the A2,
carried out for Hochtief (UK) Ltd.
VALUE OF WORKS: £350,000.00
- CTRL 420
Sprayed concrete to piles at various locations throughout the Contract,
carried out for Hochtief (UK) Ltd.
VALUE OF WORKS: £750,000.00



CTRL420

Stanmore London Underground Station - Client: London Underground

A contiguous piled wall 300 metres long was constructed to provide land to accommodate a third platform at the station. A proprietary drainage system was installed between the piles and thereafter sprayed concrete was applied to cover the piles.



CONTRACT VALUE: £250,000.00

Bradway Tunnel, Bradway, South Yorkshire - Client: AMCO Ltd/Network Rail

During a ten week closure of the railway line in late 2008, more than 1000m³ of sprayed concrete was applied to strengthen the soffit of a Victorian railway tunnel.

CONTRACT VALUE: £200,000.00

**Kettering to Harrowden Line Improvements –
Client: Balfour Beatty Civil Engineering/Network Rail**

Network Rail upgraded the railway line between Kettering and Harrowden by adding a third track to the existing twin track. A number of structures along the route of the works needed strengthening to accommodate the new loadings, and one of these was Underbridge 57A.

Underbridge 57A is a triple masonry arch under the railway line used to carry overflow water from one side of the track to the other. The arches were strengthened by the installation of a heavily reinforced sprayed concrete lining approximately 200mm thick. Gunform carried out these works in full, comprising installation of 'L' bars to support the reinforcement, two layers of reinforcement and the sprayed concrete. Rapid accelerating sprayed concrete was used to enable the existing railway lines to remain in use.

CONTRACT VALUE: £95,000.00

Whitworth Street Arch, Manchester - Client: APB Construction Ltd./Network Rail

More than 150m³ of sprayed concrete was applied to form a new arch soffit to an area totalling 350m². The sprayed concrete was applied 450mm thick, and was finished to a high standard enabling the surface to be decorated without further treatment.

CONTRACT VALUE: £200,000.00

A1 Hemsworth Link - Client: Carillion Major Projects

A soil nail wall was constructed by Gunform to two abutments under a railway bridge on this new road construction. Gunform installed the soil nails and thereafter applied a sprayed concrete facing to both abutments.

CONTRACT VALUE: £80,000.00

Central Station Tunnel, Liverpool - Client: AMCO/Network Rail

Application of sprayed fibre reinforced concrete to high neck tunnel during a short blockade.

CONTRACT VALUE: Labour and Equipment only

South Luffenham Arches, Rutland - Client: May Gurney

At South Luffenham, there is a triple span railway arch carrying the Stamford to Manton Junction railway line over the River Chater. The arches are built in brickwork and were in very poor condition.

Each span was around 8 metres wide by 8 metres deep with a radius of 4 metres. This gave an area of around 80 square metres in each arch to receive a lining. Prior to this, May Gurney installed new concrete piers attached to the existing abutments to carry the new sprayed concrete under-ringing.

The new arches comprised an initial layer of B785 mesh fixed to 16mm stainless steel dowels embedded into the brickwork. Following this an initial layer of sprayed concrete 200mm thick using 50N/mm² rapid accelerating material was applied. Next, a second layer of B785 mesh was installed, incorporating additional 20mm and 12mm reinforcing bars. Finally, a second layer of sprayed concrete 200mm thick was applied, giving a final arch under-ringing of 400mm thick.

CONTRACT VALUE: £175,000.00

Directors: A.J. Dunlop J.W. Dunlop
Sprayed Concrete Refractory Engineers
Reed Gunning Equipment. Concrete Pumps. Uelzener (Putzknecht) Wet Spraying Equipment. Refractory Paddle Mixers
Members of the Sprayed Concrete Association

