



Crossrail Stockley Junction West London

Client
Network Rail

Contractor
Carillion

Consultant
Jacobs

Works Completed
2015



Crossrail will run 118km from Maidenhead and Heathrow in the west, through new twin-bore 21km tunnels under central London to Shenfield and Abbey Wood in the east. It will bring an additional 1.5 million people within 60 minutes commuting distance of London's key business districts. When it opens in 2017, Crossrail will provide new transport links with the Tube, Thameslink, National Rail, DLR and London Overground.

The new flyover in Stockley, Hillingdon, will ensure that Crossrail and Heathrow Express services heading towards central London will be able to join the Great Western Main Line without delaying, or being delayed, by other trains using the route.

Reinforced Earth Co Ltd (RECo), was employed to assist Jacobs in the design and to supply the materials for the Reinforced Earth retaining walls. The walls would have to support not only the critical Heathrow Express rail line, but also the launch of the new bridge for the flyover.

The bridge weighed 1000 tonnes, two jacks launched the bridge with a force equivalent to that needed to lift 115 London taxis. A total of 20 moveable wheels and special Teflon sheets were also used to help the bridge launch.

To match the appearance of previous similar structures on the line, RECo designed a facing panel system combined with high adherence galvanised steel strips to provide a strong and durable structure for such a significant and sensitive application. Durability test strips are provided as standard to allow the life cycle monitoring of the soil reinforcement.