

MERSEY GATEWAY BRIDGE
RIVER MERSEY, CHESIRE, UNITED KINGDOM

Reinforced Soil Walls and Slope Reinforcement

Problem

The project comprises a north-south transport link that provides a new bridge over the River Mersey in Cheshire, that will relieve the Silver Jubilee Bridge of much of the traffic that presently causes congestion. The new route will provide approximately 9.5 km of new and improved highways and calls for significant reconfiguration of the existing highway network at Ditton, Widnes Loops, Bridgewater, Halton Lea, Lodge Lane, Weston Point and M56 Junction 12.

The Mersey Gateway Bridge will permit the Silver Jubilee Bridge to be reconfigured and restored to its function as a 'local bridge'. The bridge will be 2.3 km long, passing over the River Mersey (1km wide approx.). The main deck will be made from reinforced concrete, while steel cables, departing from 80-125 meters pylons, will support the structure.

The Mersey Gateway Project is a public-private partnership for the design, build, finance, operation and maintenance of a new tolled bridge over the River Mersey in the northwest of England, and includes significant redesign and reconfiguration of the approach highway network.

Solution

The whole infrastructure is one of the largest ones currently going on in the UK, and is one of the government's top-40 priority projects. This is why Maccaferri is proud to be a key provider of top products in order to make this crucial infrastructure safer, reliable and long-lasting.

Paralink geogrid was chosen throughout for the northern bridge approaching ramp and road network (e.g. Ditton Junction, Widnes Loops).

Paralink is acting as basal reinforcement underneath the created embankments over the existing soft soil.

Maccaferri worked closely with JV designers - Aecom - to define the Paralink grades required in the design following the BS 8006:2010 code.

Client: HALTON BOROUGH COUNCIL

Designer / Consultant: AECOM

Contractor: MERSEYLINK CIVIL CONTRACTOR JV

Products used (Qty.)

- ParaLink 34,000

Date of construction: 12/2015 - 10/2017



Paralink underneath the embankment over soft soil



Paralink underneath the embankment over soft soil



Mersey Gateway Bridge - October 2016