



Case Study: A414 Dualling

This NEC Option C target cost contract, included the widening of the A414 London Road between the M11 J7 and Southern Way, the main route in to the busy town of Harlow in Essex, and can potentially carry up to 45,000 vehicles per day. It also becomes the main diversionary route when the M11 is closed.

The works carried out on behalf of Essex County Council focused on the widening of the carriageway, installation of a new 'hamburger' style roundabout and surfacing of the completed carriageway.

Seven major traffic management phases were utilised to allow traffic to flow at peak time with contra flow operating for six months to allow widening of the existing carriageway. Full time traffic management involvement for maintenance and implementation of changes each day.

Due to the importance of the route both locally and to the motorway network, many stakeholders were consulted and involved in the delivery of the scheme. These stakeholders included The Highways Agency, Essex CC and Harlow District Council Emergency Planning Department.

Project:

A414 London Road Dualling, M11 J7 to Southern Way

Location:

Harlow

Client:

Essex County Council

Scheme elements:

- Carriageway Widening for 2KM
- Construction of a new signal controlled 'hamburger' roundabout
- Extension of two existing subways
- New slip road onto the M11
- Kerbing and drainage
- Street lighting
- Safety barrier and fencing
- Carriageway surfacing



Key elements of the scheme included

- Widening the A414 to dual carriageway, existing alignment was part two and part three lane
- Existing conventional roundabout converted to traffic signal controlled roundabout with Dual Carriageway through centre of Roundabout to ease congestion
- Footway and cycleway construction
- Two Structures under the new road, one subway extension by 9.5m the other full replacement of existing subway including extensive SU diversions

This ECI scheme was completed under a partnering approach with Essex County Council, Mouchel and Eurovia working from co-located offices on site to ensure the works were delivered to programme and budget.

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