

New project solution reduced major traffic disruption for busy interchange

OSBORNE

10

nights of severe disruption avoided

> £200k

in financial savings



Everyone home safe

PROJECT Claydon ICR Waterproofing

CUSTOMER Highways England

LOCATION East Anglia

CONTRACT NEC 3 Option C

COMPLETION 29 June 2018

VALUE £999.8k

Issue

Highways England required major works to include re-waterproofing to the Claydon Interchange Bridges on the A14 in Ipswich, Suffolk.

The initial proposal involved major traffic impact for drivers and the surrounding villages from a 79m diversion for 10 nights whilst the crossovers were being constructed. The initial proposal also put significant traffic through local villages and the minor road network.

Solution

Close collaboration with partners Jacobs, Highways England structures team and the benefit of early engagement led Osborne to re-engineer the project with the development of a new approach.

The solution developed reduced the initial project timescales through a more lateral view of how to utilise the existing road network and a technical product innovation for the waterproofing that would facilitate different working patterns.

- Widening of the slip road from one lane to two to avoid the cost of two

crossovers and the need for a contraflow.

- Use of TechJoint exclusive waterproofing materials offered better adhesion, durability, tolerance and reduced risk.

- Programming night lane closures for reinstatement work reduced the risk of weekend closures and ensured seamless waterproofing installation.

- Use of TM contractor's local knowledge and developing a plan to close only the bridge decks and utilise the slip roads as an off-and-on diversion.

- Fast-setting materials allowed a reduced programme for safety barrier installation.

Re-engineering provided cost savings, with the new design being much more cost effective than the initial project plan. This new design also ensured significant risk reduction across the project.

Audiences, including residents and local businesses were contacted in advance of the works. Advertising included posters,

letters and the regional media as well as on-road and overhead signage.

Outcome

All elements of the works were 100% completed during weeknights and over a single weekend closure, on time and with no incidents or injuries. The works significantly reduced traffic impact for the road users and the surrounding villages by closing only the bridge decks and using an off-and-on slip road diversion. The recovered cost of the project was significant, with the changes creating savings of over 20%.

