

Huntingdon Road Viaduct Check Assessment

CLIENT: A14 Integrated Delivery Team

LOCATION: United Kingdom

YEAR OF COMPLETION: 2021

We were appointed by the A14 Integrated Delivery Team to carry out a check assessment of the removal sequence of the existing Huntingdon Road Viaduct. With the opening of the new A14 the viaduct was no longer required and programmed for demolition.

The viaduct was a six-span structure with a total length of 226m. In the middle a 32m long suspended span of pre-tensioned concrete beams across the East Coast Main Line, was supported at each end on 16m post-tensioned concrete cantilever sections via half joints.

Our check assessment involved building up detailed analysis model of the existing structure, to allow the stage-by-stage demolition sequence to be assessed. This included the stage-by-stage imposition of loads from a bespoke lifting gantry designed to remove the suspended spans beams and move them transversely and longitudinally to awaiting SPMT transporters.

Removal of the beams commenced in March 2020 and the final beam was successfully removed in August 2020.

KEY FACTS:

- Category III Check Assessment for end customer Highways England
- Bridge Demolition Sequence Assessment
- Safety critical removal sequence over ECML

