



Client	Carillion for Highways Agency
Project Description	<p>A249 Iwade Bypass to Queenborough Improvement Scheme - a DBFO Contract for the construction, operation and maintenance of the A249 from the M2 junction to Sheerness Docks.</p> <p>The most prominent feature was the new Sheppey Crossing – a high level viaduct of 19 spans carrying the rerouted A249 dual carriageway over The Swale – the channel separating the Isle of Sheppey from the mainland of North Kent, local roads and the Sittingborne to Sheerness railway line.</p>
Cass Hayward Role(s)	<ul style="list-style-type: none"> • Options review and design for tender • Detailed design of viaduct superstructure, substructure, piling and river caissons • Detailed design of steelwork launch scheme including launch nose and pier top temporary crossheads. • Viaduct Designer Site Representative.
Project Statistics	<ul style="list-style-type: none"> • Works value £30m • Completed June 2006 • 1.25km long on a curved alignment • Crest of the road 29 metres above high water level • 92.5m maximum span over The Swale
Special Features	<ul style="list-style-type: none"> • Linear variation of successive span lengths and associated tapering depth • Bridge launching to minimise impact on environmentally sensitive flood plain • The launch phase over the main span achieved a 92.5m freestanding (curving) cantilever which is understood to be the longest achieved in the UK • River foundations are massive gravity bases to resist ship collision
Awards	<ul style="list-style-type: none"> • I Struct E –Award for Transportation Structures - Winner • BCSA - Steel Design Award • ICE (South East England) - Thomas Brassey Award