

CASE STUDY

Strengthening a flyover bridge

- Client:** Hull City Council
- Location:** Hessle
- Contract Value:** £630,000 (1997 Price)
- Contract period:** 20 Weeks



Following on from the successful and innovative design of Marfleet Lane Bridge we were contracted to carry out the design and build of structural repairs to Hessle Road Flyover in Hull.



Hessle Road Flyover, a reinforced concrete main rail line overbridge was built in the 1960s and was suffering from serious reinforcement corrosion.

To successfully complete the client's requirement, we constructed 14Nr multi-plated corrugated arches, and seated them on reinforced concrete foundations to the underside of the bridge. Reinforced concrete spandrel walls were then constructed to both sides of the 14 arches and the void was filled by blowing and compacting structural granular fill. Finally the top void was pressure grouted from the bridge deck.



This contract was carried out 10 years ago and has proven to be a successful, durable long-term solution.