

HS2 Phase 1 N1 & N2: Independent design checks

CLIENT: Arcadis for BBV JV

LOCATION: UK

YEAR OF COMPLETION: In progress

Phase one of HS2 comprises 140 miles of high-speed railway extending from London to the West Midlands. Packages N1 and N2 form the northern section of phase one and contain hundreds of assets including bridges works, embankments, tunnels and minor structures.

We are providing independent check services for bridges and embankments on N1 and N2, in conjunction with Arcadis. Working directly for contractor BBV JV, the check team undertake fully independent geotechnical interpretation and assessment, and structural design verification.

Structures are assessed in accordance with the Eurocodes and HS2 project standards. This includes dynamic assessment of bridges and earthworks in accordance with the latest standards, using both theoretical high speed load models (HSLM) and real train data.

KEY FACTS:

- High Speed Rail
- Dynamic Analysis
- Design to Eurocodes
- Bridges and embankments
- Independent design verification

