

# TSP

Technical Solutions in Partnership

Discovering our customers' needs and delivering the correct solutions:  
On budget, on time, first time.



## Reading Station Area Redevelopment

Reading Station, a busy and important transfer point for both passengers and freight between the London-Bristol line and services to the south coast, serves about 14 million passengers per year, a number expected to double by 2030. To meet current passenger and freight needs and prepare for future growth, Network Rail has undertaken an £897 million redevelopment of the Reading Station area, the largest Network Rail station scheme in the UK.

TSP Projects worked on this project since the GRIP 2 prefeasibility stage, and in partnership with Grimshaw Architects was involved in the detailed design and construction. In consultation with station operators, signalling engineers, architects, timetable planners, TOCs, FOCs, and Reading Borough Council, we developed several layout options taking their requirements and concerns into account, using computer simulation technology to prepare graphic materials that made the options understandable to everyone involved.

Our multidisciplinary engineering team was responsible for the design, construction and installation of the 30 metre wide Vierendeel truss transfer deck, the largest pedestrian structure in the UK rail system. This 2,400 ton structure was set into place without disrupting the train service underneath.

Alongside this, we developed the design for two new structures providing access to the station from the north and south. As part of the design process we worked closely with the station's neighbours, through Reading Borough Council, adapting our design to accommodate their needs. To connect the town centre to future developments on the north side of the station, we extended the walkway under the station, formerly used for passenger access to platforms, designing a sunken plaza on the south side of the station for more convenient pedestrian access.

