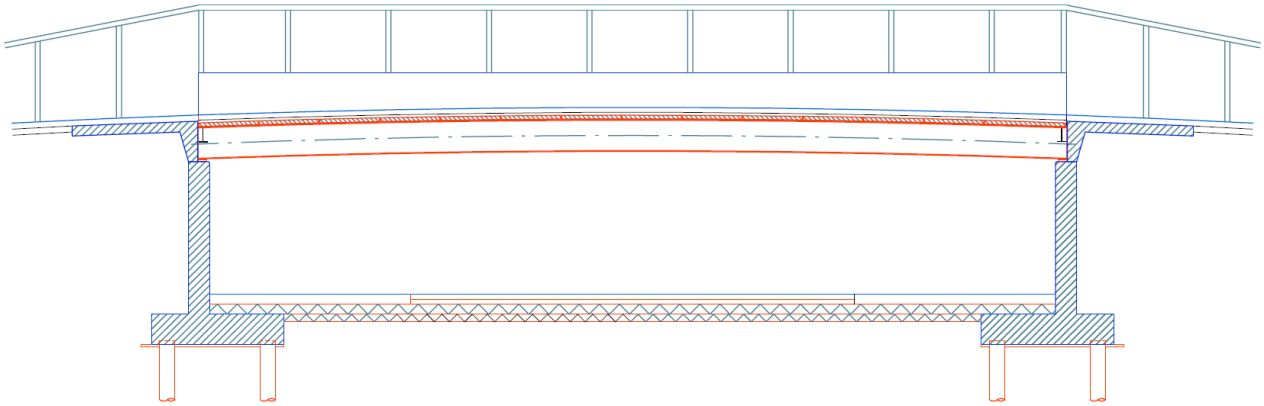

PF International – Kart Track Extension



Client: P F International
Contractor: T G Beighton
MSJ Commission: Bridge & Drainage Design

P F International kart circuit is a world-class karting facility located in Brandon, near Grantham. In 2011 the circuit was extended to include a bridge and flyover.

MSJ were commissioned to design the bridge, retaining walls and track drainage.

Ground conditions were poor and approximately 140, 300 dia CFA piles were used to support the bridge abutments and adjacent retaining walls.

The bridge deck is of composite construction using Omnideck precast units and the 17m span beams are curved to provide bridge deck drainage and to provide increased headroom over the track. Transition slabs were built on the bridge approach to limit settlement of the track relative to the bridge deck to prevent a step forming in the track.

Surface water from the track drains to a balancing pond in the middle of the circuit loop from where it is pumped at a restricted rate into the adjacent off-site ditches.

