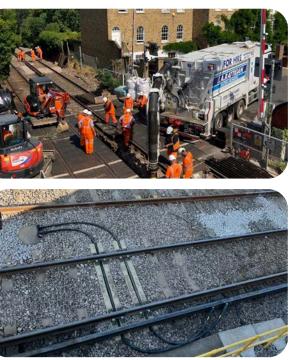


THE PROJECT

The existing 1000mm Positive DC cables at Grove Park Level Crossing were identified to be doubled, the existing duct block did not have sufficient capacity for the 2 additional 1000mm Positive DC cables so a new 6way buried duct route and Cable Management Sleepers were required.





THE DELIVERABLES

In house Civil and E&P Design including all CEM and CRE Duties

Installation of new 6-way buried duct route, 6 Nos. 150mm ID ducts with 150mm separation within a concrete surround, 1050mm from the underside of sleeper level.

- Removal of 6 Nos. existing sleepers and installation of 6 Nos. EG53 Cable Management Sleepers
- Installation of new 1000mm DC Positive DC Cables, including termination and testing.
- Track Management including Track Monitoring and Critical Rail Temperature Management.

CHALLENGES & SOLUTIONS

Multiple buried services were identified at the Level Crossing using a Ground Penetrating Radar Survey, informing the design and excavation, which was carried out by vacuum excavator where possible.

To keep the footway open to the public, a manned pedestrian bridge was used to span the open trench.

Installation teams worked in 30°C heat, conditions were managed by increasing the use of mechanical plant.

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