The existing railway track has been lowered where it passes below the road bridge on Frederick Road to accommodate the installation of new OHLE. The new track alignment necessitates the installation of trackside drainage and an outfall to the United Utilities sewer network. Story Contracting approached us to provide a feasible solution to install 17m of DN225 outfall pipe from the trackside and connect to an existing United Utilities manhole. The proposed route passes below the railway cutting embankment, a live 33kVA electricity main, the access road to Electricity North West offices and depot and had depths of cover varying from 2m to 9m. The existing brickwork manhole was too small to allow any works, other than the final connection, to be undertaken from it.

Sheeted and framed drive pit constructed during weekend rail possessions. DN1270 x 17m of hand excavated tunnel, supported by steel liner plates. Make connection to existing manhole. Installation of DN225 twin wall pipe within the tunnel. Filling of tunnel with foamed concrete during nightshift working to eliminate disruption to ENWL operations.

Ground Conditions were made ground (embankment fill) and firm dry clay.

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