



Motherwell North Signalling Renewals

Client

Network Rail

Timescale

July 2016 - October 2018

Disciplines

Power



Design



Civils



Telecoms



Services Utilised

- Project management
- Construction
- Design
- Test and Commissioning

Customer Objective

To deliver an advanced package of works including concentrator replacement and the FTNx MPLS IP transmission and voice networks required in advance of the Motherwell North signalling contract.

Project Overview

As part of the Motherwell North Signalling Renewals (MNSR) project, Linbrooke Services delivered significant telecomms, civils and electrical works over multiple geographic sites in challenging timescales including all FTN-X (IP) deployment.

Linbrooke Services provided all supporting Telecomms Design, Installation, Testing and Commissioning including Significant numbers of signalling control circuits, CISCO Unified Call Manager and all FTN-X (IP) integration.



Linbrooke Project Scope

- Production of FTN Design Packs and close liaison with NRT TENE
- 35km of new fibre optic cable including new UTX and routeworks
- Break in the fibre cable for connection to existing network
- New Relocatable Equipment Buildings (REBs) including DNO power connections
- Centralised CISCO Unified Communications Manager (CUCM) including new IP Trade HMIs
- IP connectivity over the FTN-X (IP) Network
- Uplift 23 existing FTN (SDH) nodes to support FTNx (IP) network operation including ASR903 routers and VG350 Voice Gateway installations
- Signalling circuits including Kenton converters for 2/4 wire data circuits and Westermo converters for SSI circuits (providing legacy data services over a modern IP Network)
- Full system integration (including FTN-X IP) testing, commissioning and handback



Telecommunications • Power • Signalling • Civils • Training

Design • Installation • Test • Commission

Benefits of working with Linbrooke

- Linbrooke are one of the largest independent turnkey railway companies operating in the UK. Linbrooke staff have a wealth of experience in delivering integrated train control and operating solutions.
- Linbrooke work in a collaborative style, engaging with the client to ensure we deliver the required solution on time, in budget and safely.
- A capacity to deliver telecoms, signalling, power, civils and track works, giving a true multidiscipline capability to our clients from a single company. Fully conversant with working on the Railway, Linbrooke comply with all rules, regulations and HSQE responsibilities, so a client can be assured that anyone working under their project does so in a safe and professional manner.
- Linbrooke independence allows us to select the best technology to meet specific requirements in the most cost effective manner. Linbrooke also works with suppliers to help develop their systems/ equipment so that it better meets the client's needs.
- With a proven experience in telecoms, power, civils and signalling from survey to design to construction through to client handover Linbrooke is the company to work with.

For further information on this project or to discuss world class telecoms, power and signalling solutions, call us on

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