

# TYNE & WEAR METRO

## Project Summary

**Client:** Nexus

**Timescale:** July 2013 – December 2013

**Linbrooke Disciplines:** Telecommunications (Network)

**Linbrooke Services Utilised:** Project management, site management, design, installation, commission

## Customer Objective

To facilitate the deployment of the Internet Protocol (IP) infrastructure through the installation of a new robust fibre network which will support the existing public address systems, the CCTV functions and the smart ticketing initiative across the Newcastle Metro network.

## Project Overview

The Nexus Open Transport Network (OTN) protocol enabled communication between the various assets on the control centre and various stations in and around Newcastle upon Tyne. This network functioned through the utilisations of fibre cables across the Metro system. In order to maximise efficiencies, Nexus planned to replace the existing OTN infrastructure with an IP based system and diverse fibre route.

Linbrooke were selected to install, test and commission a new diverse fibre route on the entirety of the Newcastle Metro infrastructure, under very limited time constraints.

*“Working against tight time constraints and overcoming a number of obstacles, Linbrooke performed admirably and provided a successful and high quality delivery ahead of schedule.”*

*- Chris Barthorpe, Delivery Engineer for Linbrooke*

## Linbrooke Project Scope

With the majority of the works being conducted under possession during night time hours, the timescales were constricted and put a great deal of pressure on Linbrooke's supervisors to ensure the planned works were achieved. Each night time shift was only 4 hours and took place between midnight and 04:00 am.

Linbrooke's scope of works included:

- Full site surveys
- Procurement of all cables and anchors
- Installation of 40km of surface laid Double Insulated Super Armoured Cable (DISAC) fibre cable
- Installation of DISAC anchors
- Installation of station cable containment (tray-work)
- Installation of optical distribution frames
- Testing, splicing and termination of fibre optic cables
- Installation of fibre optic joints
- Installation of trough routes
- Installation of GRP elevated trough routes

## Benefits of working with Linbrooke

Utilising an effective and collaborative approach with Nexus, Linbrooke worked extremely hard to overcome all obstacles and complete the project to a high quality before the allocated timescale – despite an aggressive schedule.

To ensure successful project delivery, we consistently provide:

- A strong, detailed understanding of the technical scope
- A full turnkey delivery of telecoms, signalling, power, civils and track which ensures multidisciplinary efficiency
- An impeccable health and safety record
- The ability to adjust to project alterations rapidly – and provide alternative solutions when required to meet exact site requirements
- A highly skilled and experienced work force
- Strong relationships with a number of industry experts