



Trans-Pennine Initiative Fibre Interface Point (FIP) Huddersfield

Client	Network Rail
Project & Location	NRT Data Centre Fibre Links – TPI Variation works
Duration	Start: October 2019 Completion: February 2020
Infrastructure Requirement	Network Upgrade
Scope of Works	<ul style="list-style-type: none"> Supply engineering & design services, to support & deliver all requirements of GRIP 4-8 De-vegetation, Renovation of existing routes, Installation, Termination, Splicing & Testing.

PROJECT OVERVIEW

The TPI project has been funded to date by the Department for Digital, Culture, Media and Sport (DCMS) to provide a high-capacity future proofed digital telecoms transmission backbone along the Trans-Pennine corridor. DCMS announced a major initiative to promote investment in extending local full fibre across the UK to deliver faster and more reliable broadband.

One of the aspirations for the TPI project is to provide network capacity to improve rural broadband. A 432 OF trunk cable has been installed between Manchester Piccadilly and York ROC, with spurs into Leeds Station core node, Leeds and Manchester Data Centres.

The purpose of the FIP is to provide interconnection points for third party operators, which can be linked to either Manchester or Leeds Data Centres, or any other preferred FIP.

DELIVERY & INNOVATION

- Works were delivered using in-house teams based in and around Manchester.
- Instalcom rail and highway teams interfaced seamlessly.
- Instalcom introduced the Ruggedized Fibre Access Terminal on Network Rail Infrastructure.
- Instalcom was appointed as Principal Contractor.
- Instalcom was responsible for civil and telecom designs.
- Instalcom adopted a collaborative approach working with Network Rail and Local Highway Authorities.
- Completed on time and within budget.
- This was the first time a Fibre Access Terminal (FAT) had been installed, terminated and tested on NRMI. The FAT provides direct highway access to 3rd party customers thereby removing the need to access the railway.
- Works involved removing vegetation from the bridge structure and re-pointing areas of spalling - De-vegetation - Renovation of existing trough routes - Installation of new cable route (Anderlite) - Installation of Stakka chambers - Installation of highway chambers - Installation of 110mm buried duct - installation of 28/32 sub-duct - Installation of highway chambers – Installation of Fibre cable - Termination, splicing and testing of fibre cable - Provision of H&S handback file.

KEY CHALLENGES

- Design management- developed a 'standard' suite of designs for the highway element of the works reduced Client review time & resulting.
- Communication and coordination was key. Holding and attending regular meetings resulted in stakeholders being kept informed and engaged throughout.
- Integrating the working at height element of works (Core drilling and installation of high level containment) within Possession



HUDDERSFIELD DATA CENTRE

Instalcom Ltd

PROJECT KPIs

- Aspirational key dates were detailed within the Contract documentation and phased delivery approach was employed to ensure Network Rail expectations were managed effectively. During GRIP 5 Network Rail aligned Key Performance Indicators with other projects, (Trans- Pennine Initiative) and confirmed these during GRIP 5. KPI dates were delivered to plan.
- Works delivered with no accidents or incidents
- Successful brand promotion of Network Rail.
- Positive management and communications strategy with both internal and external stakeholders.



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