

CASE STUDY

Signalling Installation Works Package 1

LOCATION: Feltham to Wokingham Phases 3 & 4
CLIENT: Atkins
DATE COMPLETED: November 2022



Introduction

Global Rail Construction Limited (GRCL) successfully secured a significant Signalling installation sub-contract on behalf of its UK client Atkins. The contract is for Package 1 covering Phases 3 & 4 of the Feltham to Woking Resignalling Scheme and also includes Telecoms, Permanent Way, E&P and associated minor civils installation scopes of work.

The contract includes the provision of key engineering resources - using in house personnel - in accordance with the Engineering Management for Projects standard NR/L2/RSE/02009. This includes the necessary disciplined Contractors Responsible Engineers, who are accountable for the day-to-day management and co-ordination of the technical and engineering activities, Construction Managers, Temporary Works Co-ordinators, and a Responsible Manager to fulfil the duties as defined in NR/L3/OHS/019.

This success was awarded following Global Rail Construction Limited's recent completion of the early advanced scope for Phase 2 covering Sunningdale MCB-CCTV - a full level crossing renewal - in which GRCL completed trackside signalling equipment installations and civils works in early November 2021 and the company was of course delighted to be working once again in partnership with its long-term customer Atkins.

The overall Feltham to Wokingham Resignalling Project covers the renewal of all signalling assets, covered by seven scheme plans, with delivery broken down into six separate Phases that align approximately to the Signalling Scheme Plan boundaries, Feltham ASC Signallers panels and Wokingham Signal Box.

Scope of works

On behalf of the Designer and Principal Contractor Atkins, Global Rail Construction Limited will deliver, install and construct the following scope of works, in fenced/and or Site Warden protected areas. However, there are certain areas that will also be constructed during possessions/line blocks.

- 🕒 Signalling
 - All signalling installation works including cable jointing and termination at assets
 - Installation and testing of E&P PSPs, LV, 650V and auxiliary supply points
- 🕒 Telecoms
 - Telecoms FTN nodes, fibre cables, copper cables, LOCs

Challenges and solutions

Planning coordination and collaboration

This project involves several stakeholders including Atkins, Network Rail, and other contracted parties. Global Rail Construction Limited continue to work collaboratively with all concerned throughout the project, using all reasonable endeavours to coordinate and make necessary allowances for working alongside others to deliver timely installations that meet the requirements of the overall project programme and its future commissioning.

This is supported by detailed planning to identify and book possessions/isolations and line blocks requirements - taking account of possession availability advised in the Work Information. Global Rail Construction Limited are working closely with Atkins to agree a detailed access plan to support the overall programme requirements. There is also significant interfacing with other interested third parties within possession worksites. GRCL provide a co-operative approach to the planning and co-ordination of shared worksites.

Benefits

Global Rail Construction Limited has considerable experience in delivering high profile turnkey railway signalling installation projects and has an extensive portfolio of successfully commissioned projects.

Working on behalf of, or in partnership with, many of the industry's most respected names, the company's services include the management, planning, installation, test and commissioning of complete railway signalling systems.

The company has experience within electronic and relay interlocking, signalling control centres, ATP, TPWS, train detection and ATO systems and all associated trackside signalling equipment.

- and telephones
- Cable installations
- 🕒 Minor Civils
 - Level Crossing civils, including welfare, security and logistics including traffic management
 - Signage installations
- 🕒 E&P
 - ETE installations and field testing
 - Cable pulling covering PnP and power (excluding cable jointing)
 - Level Crossing mechanical and electrical installations

Programme management and continuous improvement

GRCL has provided a compliant and detailed P6 programme of works, presenting a logical sequence of events covering all work scope and disciplinary activities to maximise the worksite opportunities. The programme covers receipt of design, procurement and delivery of materials, construction start and finish dates, handover of the works and issue of all as-built deliverable items as required by the contract.

GRCL will prepare and issue detailed four-weekly lookahead programmes detailing daily work activities, working hours and site contacts on a weekly basis. This approach enables a precise view of activities planned to include plant movements, track access, any storage requirements, welfare provisions, logistics, plus any other items required by the PC to co-ordinate the possessions/line blocks of Network Rail and other 3rd parties.

Furthermore, a statement of work achieved for the previous week as a 7-day lookback will also be provided, to support progress updates and aid lesson learning for improvements and opportunities.

Working on both Network Rail and Transport for London infrastructures, we have the dedicated project management experience to deliver signalling installation projects.

We have a proven track record delivering a diverse range of projects for a wide variety of clients within the railway industry and ensure that our clients are fully supported throughout the entire project lifecycle.

From conducting the initial feasibility studies and surveys through to supporting design of trackside equipment and implementing the installation process, our engineering and project management teams ensure that each element is completed, tested, and commissioned before the project is signed off.