

# Integrated Controlled Track Switch Installation



## THE PROJECT

This project aims to improve safety and operational efficiency by replacing existing Hook Switches with integrated controlled track switches (iCTS). This upgrade will eliminate the need for isolation staff to access areas near the line or come into contact with potentially live conductor rails when setting up isolations. AMI Projects has been contracted to install multiple iCTS units throughout the Wessex Region.



Project Value

**£1M+**

Project Started

**March  
2023**

Project Ended

**May  
2025**

Client

**Network  
Rail**

## THE DELIVERABLES

- AMI managed the multi discipline design of seven integrated controlled track switches across three separate sites in the Wessex Region
- Possession and access management to facilitate the complex multi discipline installation works and co-ordination with Electrical Control Rooms to integrate the control and indication of the Integrated Track Switches onto the existing SCADA system.
- The Installation of civils, Electrical Track Equipment (ETE) and Low Voltage electrical elements was managed and undertaken by our experienced in-house installation teams.
- Management of pre-commissioning activities and final commissioning and bringing into service of the new track switches.

## CHALLENGES & SOLUTIONS

Comprehensive design integration across civil, electrical, and mechanical disciplines was paramount to project success. Interdisciplinary design review meetings were essential for achieving cohesive integration and resolving potential design conflicts. A phased pre-commissioning plan, incorporating progressive testing and validation at each stage, was implemented to ensure reliability and safety prior to commissioning.

