

Isle of Man Railways : Douglas



Project Summary

Overview

Isle of Man Railways commissioned Novus Rail to undertake the complete renewal and remodelling design of Douglas Yard as it was life expired and required complete renewal

Location

Douglas Station and Yard junction, Including the train maintenance workshop, coal bay and passenger platforms

Services Undertaken

Preparation of the outline and detailed design for the railway yard junction renewal (partially concrete for road deliveries) and optimisation of the passenger interface at platforms

Significant design aspects also included structural concrete yard slab design, HGV swept path analysis, surface water drainage design and new cable routing strategy

Designs produced in line with IoM Railways standards

Value Added by Novus Rail

Developing a new bespoke turnout design to suit the yard and station operating requirements / spatial constraints, competently designing this configuration within the entire yard junction layout as standard units

Delivery of all design services within a single organisation

Key Project Specifics

- Isle of Man Railway key station
- New (CEN 39) 1 in 7.85 standard turnout design
- Production of S&C manufacturing designs for 9nr layouts
- Overall horizontal and vertical track alignment design
- Partially concrete slab track system in junction area
- Concrete slab track structural design
- Slab surface water run-off design contouring
- Drainage design for new yard slab, including interceptor
- New coal pit design for steam locomotives
- HGV swept path analysis for coal bay deliveries
- New (CEN 39) fixed Buffer stop design
- Determining platform gauging requirements
- Platform gauge clearance and stepping distance analysis
- Cable duct routing designs