

TfGM Victoria Tram Stop



Project Summary

Overview

Concerns were raised by the maintainer on the excessive track deterioration of the newly constructed tram stop.

Novus Rail were commissioned by Wilde Consulting Engineers to conduct various surveys and assess the results against the approved from construction design.

Locations

- Victoria Tram Stop, with 3nr through lines and 4nr complex S&C layouts including a scissors crossover, fixed diamond layout and standard crossovers.

Services Undertaken

A complete detailed survey of the tram stop was undertaken including topographical surveying, platform gauging, track condition examination and OLE heights and staggers.

The results were then reviewed against the approved for construction design the new tram was built against to determine if construction issues had led to the degradation of whether it was inherent design issues.

Our team provided a comprehensive report of the station outlining any and all issues found along with a projected lifespan of the depot in it's current condition.

Value Added by Novus Rail

With our team's comprehensive knowledge of track design and maintenance we were able to provide technical support to the Client after issuing the reports and advise on where best to focus future improvements at the tram stop.

Key Project Specifics

Topographical Survey

- Track geometry, gauge and cant measured at every rail baseplate position
- Platform edge surveyed at 1m intervals
- Height & stagger survey undertaken throughout

Track Condition Examination

- Track gauge, cant and twist measurements manually verified at all S&C and plain line sections
- Rail head and side wear measured at 10m intervals
- Grout pads depths measured at every baseplate position
- Schedule of defects provided with priorities for resolving

Structure Gauging Survey

- Platforms gauged at 1m intervals
- All lineside signals
- Cheetham Hill overbridge
- Driver hop-ups

Approved for Construction Design Verification

- Track geometry compliance
- Track construction compliance