Case Study

HORNSBY PLATFORM 5 & STABILISING WORKS

Laing O'Rourke / TIDC

Hornsby, NSW

The 'L' Shaped Retaining Wall is part of a $50Million redevelopment and expansion of rail infrastructure at Hornsby Station and the immediate surrounding areas financed by TIDC. The wall undertaken by Hannas has a construction value in excess of $2.5Million. The retaining wall is 200metres long and at its highest point is over 8metres tall. The purpose of the 'L' Shaped retaining wall is to retain fill upon which additional stabling yards for trains will be constructed.

The project offered several challenges for Hannas including working within the rail environment, rigorous OHS & QA requirements, and strict adherence to rail building specifications. An additional challenge was working adjacent to a main road with obvious planning considerations required to ensuring public safety and general traffic access.

Project Statistics:

- Wall Length – 200metres
- Wall Height – From 4metres up to a maximum of 8metres
- Overall Square meters of Retaining Wall – 1500m2
- Over 11,000m3 of Bulk Excavated Material had to be managed onsite
- The 'L' Shaped Retaining Wall was constructed in three phases: Base Footing, as well as 2 Vertical Lifts
- 57 separate wall component concrete pours
- A total of 1720m3 of Concrete
- A total of 260 tonne of Steel Reinforcement
- Reusing the 11,000m^3 of bulk excavated material as backfill ready to take rail track.