

DENNY AVENUE LEVEL CROSSING REMOVAL PROJECT:

Flashbutt 27.5m Short Rails Into 82.5m Long Welded Rails



The Situation

Denny Avenue Level Crossing Removal Project was part of the Public Transport Authority network on the Armadale train line in Western Australia. This project was the first level crossing to be removed under the METRONET Level Crossing Removal program. The project included constructing a rail-over-road underpass by gradually raising the rail and sinking Davis Road under the elevated rail line. New 50kg One Steel rail was required to upgrade the Up and Down main of the 129 year old Armadale train line.



Denny Avenue Level Crossing Removal

CHALLENGE

New 50kg One Steel rail was required to upgrade the Up and Down main of the Armadale train line for the Denny Avenue Level Crossing Removal section. 27.5m 50Kg One Steel Short Rails were required to be welded into 82.5m Long Welded Rails

Significant space constraints along with substantial interface with multiple work groups meant Flashbutt welding sequence and footprint considerations were imperative to successful completion of welding.

SOLUTION

Portable Plant 80 (PP80) Flashbutt welder was utilised to reduce the total space required to complete Flashbutt welding works. This included HRSA's speciality lifting frame and alignment bed. HRSA's proprietary Intelliweld® system was utilised on the Portable Plant Welder to record and monitor every weld. Automatically generated production reports were created which allowed ease of tracking and identification of all welds completed along with timely submission to client for review. HRSA's previous experience from past jobs in Australia and North America allowed reliable and space efficient solutions to be utilised to complete Roller Line welding.

Successful completion of all Flashbutt Welding works required for the project. All welds were compliant to PTA network specifications. Successful completion of Flashbutt welding for the greater METRONET Project. Most importantly all work was completed safely with all team members returning home safe every day.

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