

SYDNEY METRO WEST

MULTI-STAGE DEMOLITION & ENABLING WORKS

PROJECT SUMMARY

Project Size
\$7.7 M



- Structural deconstruction of steel framed infrastructure
- Acoustic shed dismantling and engineered deconstruction
- Conveyor and tower removal
- Gantry crane decommissioning and lift planning
- Wire sawing, slab removal and pile works
- Heritage asset protection and monitoring
- Environmental, noise and vibration management

Perfect Contracting was engaged to deliver complex demolition and decommissioning works across multiple packages within the Sydney Metro West Program for Acciona-Ferrovial Joint Venture (AFJV), including the Bays Station Precinct in Rozelle and the Five Dock Acoustic Shed.

Works supported the demobilisation of tunnelling infrastructure across the Sydney Metro West corridor, requiring precision dismantling of large steel framed sheds, conveyor systems and acoustic enclosures within active construction zones.

Delivery included staged top down deconstruction, gantry crane removal, wire saw segmentation and crane controlled lifts around live shafts, heritage culverts and critical infrastructure.

Across both packages, demolition methodologies were engineered specifically for structural complexity and site constraints, with detailed sequencing used to safely dismantle over 25,000m² of steel framed infrastructure.

Works were executed in accordance with Sydney Metro requirements, integrating structural monitoring, environmental controls and coordinated access planning throughout delivery.

The projects were completed with zero LTIs and no recorded incidents, achieving a recycling rate exceeding 99%. All shaft interface protections were maintained with no damage recorded.



[MORE DETAILS](#)

THE BAYS STATION PRECINCT

- Structural steel shed dismantling
- Gantry crane decommissioning
- Conveyor tower and chute removal

This project involved over 25,000m² of steel framed infrastructure surrounded by heritage culverts, live sewer systems and active public roads, requiring engineering led deconstruction rather than conventional demolition.

A 13 phase dismantling program was developed using high reach excavators, EWPs and engineered crane lifts. Slabs up to 1.2m thick required saw cutting and controlled demolition with continuous vibration monitoring. Heritage culverts were protected through wire saw segmentation and crane lifting of slab panels, while live shafts and sewer infrastructure were excluded from impact zones.



[MORE DETAILS](#)

FIVE DOCK ACOUSTIC SHED

- Engineered methodology development
- Staged structural dismantling
- Controlled lifting and structural removal

Working above a live metro shaft within a residential area, the Five Dock Acoustic Shed dismantling required a staged top down deconstruction using crane lifts, EWPs and engineered rigging methods.

The 75m x 62m x 21.5m steel framed structure was dismantled through controlled sequencing, including removal of roof sheeting, trusses, gantry crane infrastructure and associated concrete structures. Mechanical demolition and structural separation enabled recycling outcomes exceeding 99%.