



Complex deconstruction and enabling works

Bombardier site, Crewe

Client: Countryside Properties

Site area: 6.75ha

Timeframe: 24 weeks (phased works)

End use: 300 new homes

Challenge

Demolition, remediation and earthworks on a landmark site, ready for development of almost 300 new homes.

Built in 1840, Bombardier's Crewe Works had employed over 20,000 people before becoming a general maintenance facility.

A key feature of the site was a towering 13m wall, which sat adjacent to a main road and required careful deconstruction.

Solution

McAuliffe's technical team created and implemented the remediation strategy, locking in the cost of remediation with the land deal to reduce client risk.

We designed and managed demolition of the 13m wall, including complex temporary works, removed 7,000 tonnes of steel, and value-engineered a vibrostone column foundation solution to 95% end product-compaction in heavily cohesive soils.

Because of the complicated nature of this demolition project, we created a temporary works and deconstruction methodology.

This involved a designed scaffold, which would ensure the integrity of internal wall structures as they were safely removed to level.

We phased demolition works, safeguarding Bombardier's ongoing operation by designing and installing an internal propping and support system to an internal high wall.

By phasing the works, we could release sections of the site to Countryside early, allowing them to bring new homes to market faster.

Our team engaged positively with the local community, supporting the neighbouring church with money for bills and upkeep during the pandemic.

RESULTS

- Safely demolished a 13m wall while keeping the main road partially open
- Ensured minimum disruption to local residents
- Provided a cost-effective foundation solution to strict NHBC standards
- Re-used materials sustainably in line with the CL:AIRE DoW CoW
- Supported the local church and community centre, helping fund its upkeep during the pandemic