

**CASE STUDY**

**Works:** Demolition, slab and foundation removal, reinstatement works

**Date:** January 2018

**Programme:** 2 Weeks

**Sector:** Town Centre

**Value:** £25k

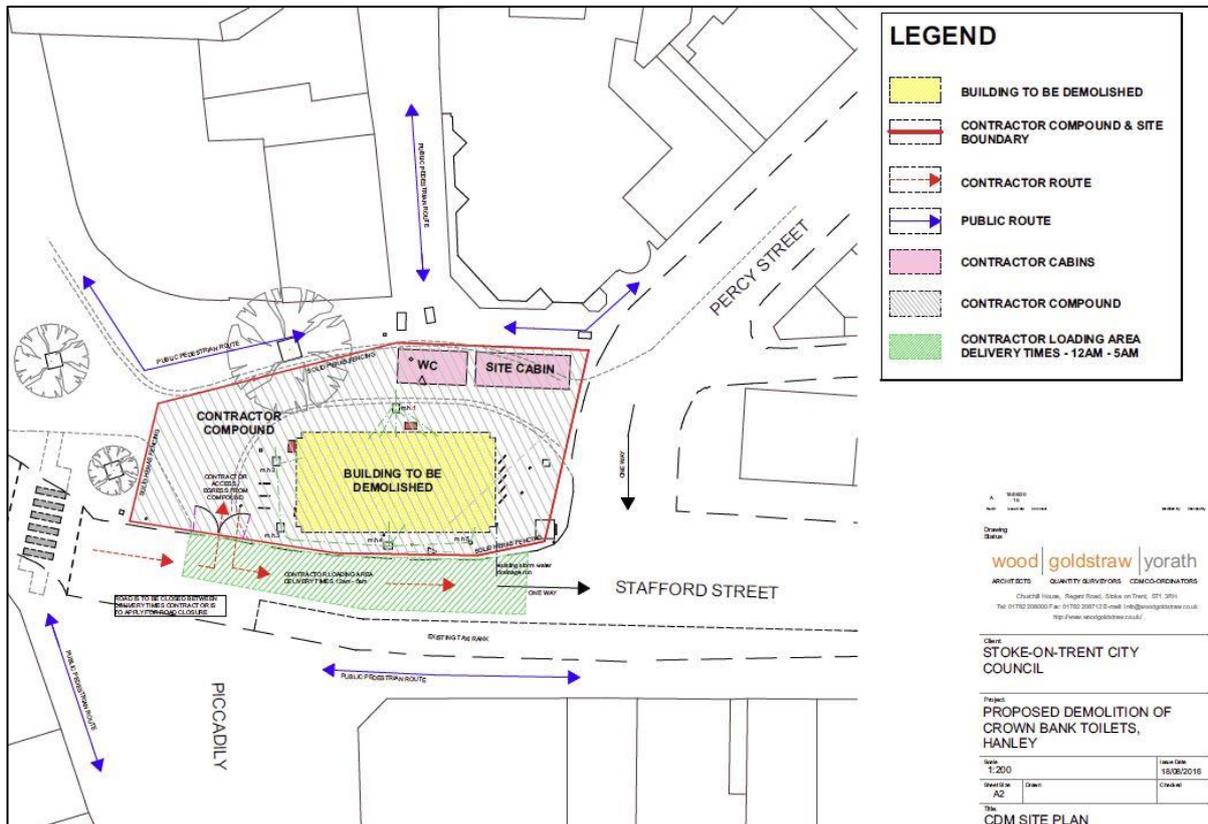


## Crown Bank Toilet Block, Stoke-on-Trent

**OVERVIEW:** The contract to remove a former public toilet building, in Stoke-on-Trent’s main city centre, was awarded to Lawson Group.

**CHALLENGE:** There were shops and residential properties that surrounded the site, with a one-way access road next to the building. A letter approved by Stoke-on-Trent Council would need to be hand-delivered to all these surrounding properties. Also, a taxi rank and mobile catering van were to remain in use for the duration of the works.

This building was of traditional construction, with brick and block walls, and a timber pitched roof cladded with sheet tin. The roof had a one-metre wooden cantilever section running





around the building. It also had glass panels at each end. All street furniture was identified on the drawings and would need removing or protecting during the demolition work.

The demolition stage of the building would be carried out over one night, due to its location and surrounding public access

and businesses. The site would need covering with tarmac once all demolition works were completed.

**SOLUTION:** Temporary solid steel fencing was erected around the site to protect the public. Following a CAT scan, all services were terminated before works started, and all



drainage services leaving the site were capped off in the existing manholes. All vehicles entering site were pre-planned and controlled by an appointed banksman. Block paving, voids and drainage covers were protected during the demolition works. A 360-demolition excavator, with demolition attachment, was positioned at the rear of the structure. Banksmen were placed in position and all site staff were in radio contact. As the building was approximately 2 metres from Stafford Street, the demolition work commenced at

18:00hrs. The work was scheduled to take approximately 6 hours through the night.

Using a hydraulic grab attachment, the roof was removed back to the first supporting roof truss, allowing one bay of the roof to be lowered carefully to the ground floor slab. The demolition excavator then loaded the waste generated into a 40-yard bin that was located next to the building. As the demolition progressed, the internal walls were

removed. All block work generated from this process was left within the



building footprint for the excavator to track on. The external walls of the building were removed last, this, along with a Dust Boss, helped contain any dust generated.



Starting at the edge of the building's slab and at the furthest point away from the site entrance, an excavator with bucket attachment lifted the slab in large pieces. The floor slab and foundations of the building were removed down to 240mm below existing ground level. Next, the footprint of the building was levelled and tracked in. The area was then covered in tarmac, which was managed by Lawson Group.

**RESULT:** The structure was safely removed, and tarmac laid in its place as requested by the client.

