

## Chester City Wall reinstatement and repairs

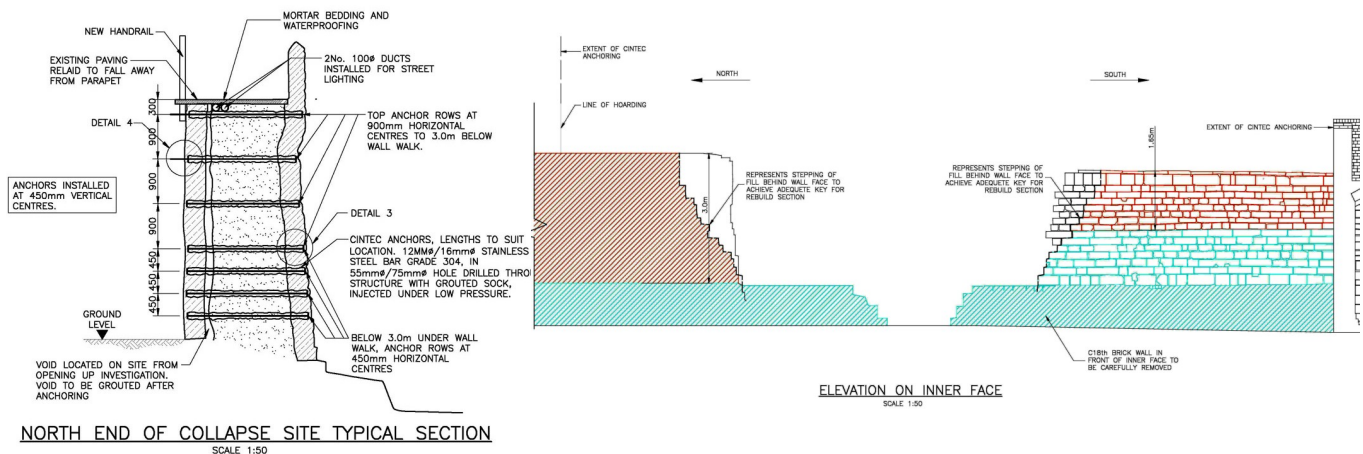
The city walls are the oldest, longest and most complete in Britain, parts of which are almost 2000 years old. Chester is the only city in Britain that retains the full circuit of its ancient defensive walls. Walking the complete circuit gives wondrous views down into the city and gives a fantastic insight into Chester's long history.



A 30-metre section of the **walls**, which date back to Roman and medieval times, **collapsed** in April **2008**. Structural Engineers Ramboll (formerly Gifford) were commissioned with the delicate and complicated task of reconstruction and repair.

Cintec International was the natural choice for Ramboll given their specialist experience in a similar project at Rochester Castle and City walls.

A complicating factor in both design and installation of the anchors was the temporary shoring which had been necessarily erected to prevent further collapse of the wall adjacent to the collapsed section.



The areas of wall adjacent to the collapse were consolidated with Cintec anchors inserted on a grid pattern and of varying lengths and diameters according to the loading which increased nearer to the base of the wall.

The re-built sections also had Cintec anchors installed into the remaining core and backing of the wall but with a threaded connector at the exposed end of the anchor to allow a 6mm dowel to be built-in to the replaced masonry facework.

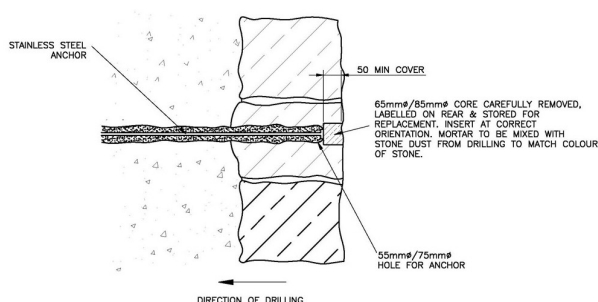


Image at the right shows retained cores which were replaced after anchoring in the stonework to create an invisible repair.

