

HOLDENBY HOUSE, NORTHAMPTONSHIRE

Holdenby House is situated in the parish of Holdenby, six miles (10 km) northwest of Northampton. PRINCIPAL BUILDING Holdenby House (listed grade II*) was rebuilt between 1873-5 to a design by R H Carpenter and W Slater, incorporating parts of Capt Baynes's mid C17 house and its late C16 predecessor. It was enlarged in 1887-8 by W E Mills. To the west side of the House is a quadrangular stone stables range (listed grade II) of the later C19.



In 2016 structural engineers PRP from Northampton engaged Cintec to assist with the stabilisation of the rear part of the old building which was showing signs of movement to one wing.

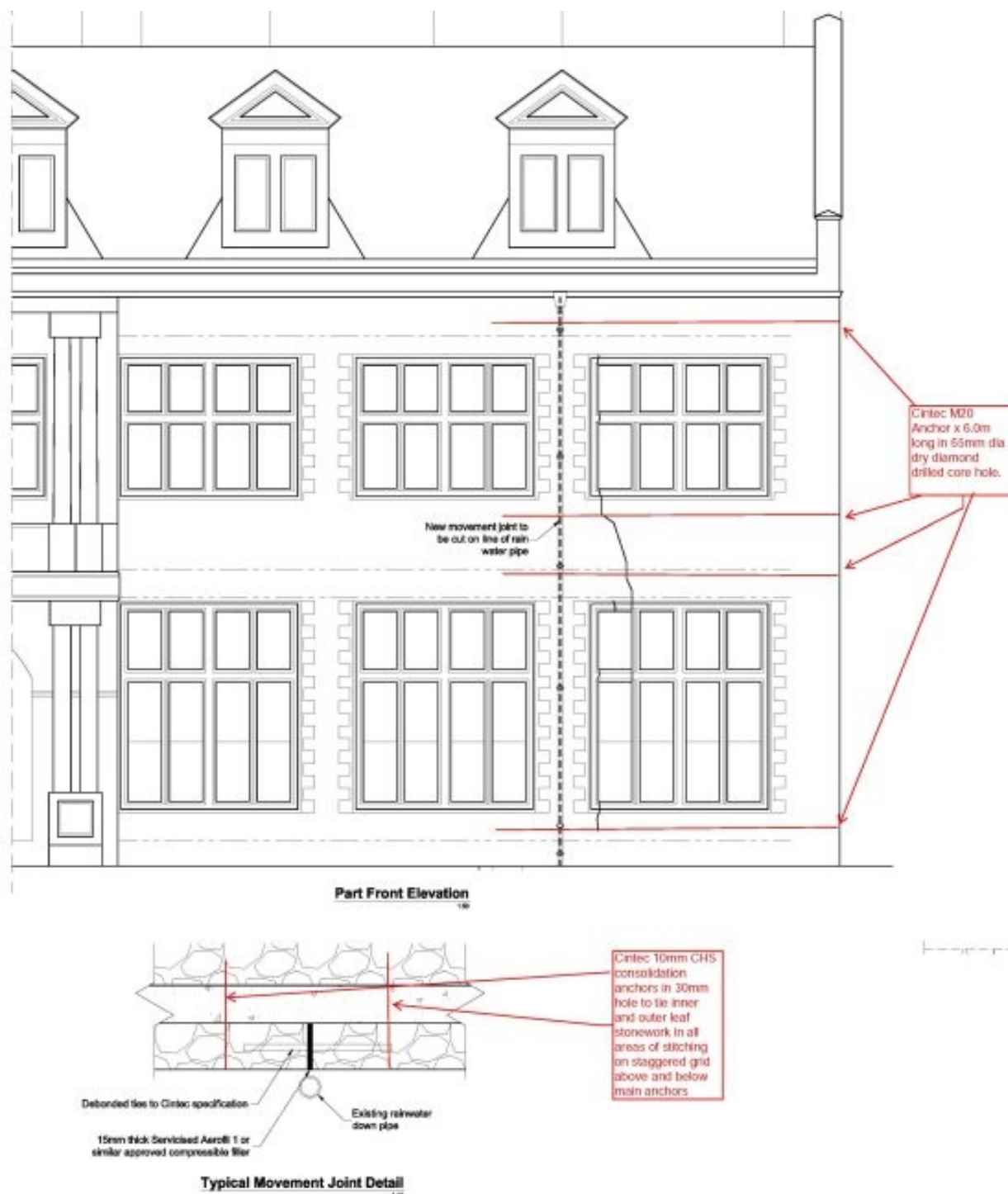
PRP had carried out site investigations including trial pits adjacent to the foundations and drains to ascertain the cause of the movement.



The movement was evidenced by cracks running in a vertical plane from eaves to the foundations as indicated on the photo to the left.

Crack monitoring had been in place for three years and seasonal movement recorded which was determined to be thermal.

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The solution was easily overcome by installing a set of four horizontal 20mm diameter stainless steel anchors dry diamond core drilled in 65mm holes and 6.00 metres long below, between and above the existing fenestration adjoining the vertical crack.

The outer skin of natural stone was saw cut vertically to allow the insertion of a compressible expansion / movement joint to cater for any future movement. This was eventually concealed by the existing rainwater pipe.

The Cintec anchors had a slip-sleeve at the short end of the anchor to permit horizontal longitudinal movement but not lateral movement.

Additionally Cintec 10mm anchors in a 30mm hole were concealed within the bed and perp joints which were installed to tie the inner leaf and outer leaves of the wall together.