



## St Martin's Church, Welton

### CASE STUDY

#### THE PROJECT

Structural monitoring of St Martin's Church.

#### REMEDY'S RESPONSIBILITIES

Installation and monitoring of steel monitoring studs to measure seasonal and long term variation in structural cracking.

## Historic Building Monitoring

St Martin's Church in Welton, Northamptonshire is a Grade II\* village church with some parts of the building dating back to 1254. Remedy Geotechnics Ltd. is retained to advise the Church Council on the building behavior relating to historic cracking patterns within the structure.

A programme of systematic structural monitoring has been implemented to build up a database of structural movement to assess the contribution to structural movement from both seasonal and trending ground movement. The conclusions drawn from the monitoring will inform future maintenance and repair decisions.

Existing cracking patterns have been visually surveyed, with accompanying photographic record, and structural monitoring implemented on the most serious cracks. Regular three monthly data collection is now being undertaken.

The monitoring methods have been chosen to sensitively balance visual impact with accuracy of monitoring readings.

In time the monitoring record will enable the structural behavior of the building to be understood to identify the sources of movement whether structural or geotechnical.

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