

PROJECT

Calvary Episcopal Church
Pittsburgh, Pennsylvania

CLIENT

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PROJECT DESCRIPTION

The Calvary Episcopal Church was constructed between 1906 and 1907 and was built using traditional masonry construction. The architecture of the church is Gothic Revival with a central tower over the crossing. The church exterior is clad with Indiana limestone over a clay masonry backup. The spire, however, is clay masonry at the base and transitions to solid limestone approximately 8 feet above the base of the spire. Cracks and spalls are visible in the limestone of the bell tower and spire.



SERVICES PROVIDED BY ATKINSON-NOLAND

The main objectives of this investigation were the structural condition assessment of the spire, analysis of the support system for the spire, and the structural condition assessment of the central piers in the bell tower. The secondary objective was to gather information for remedial repairs should they be required.

- Condition survey of existing building including crack-mapping, location of deteriorated areas, and in-place testing to determine masonry stresses in the bell tower
- Structural analysis
- Preparation of recommendations for retrofit and repair



Atkinson-Noland & Associates
Consulting Engineers
www.ana-usa.com

2619 Spruce Street
Boulder, CO 80302
303.444.3620

32 Old Slip, 10th Floor
New York, NY 10005
917.647.9530