

Project ref: 0142

22 May 2025

STRUCTURAL ENGINEERING NOTE 05

Barn at Brook Farm, Cuckfield, West Sussex

Designer's Risk Assessment

This designer's risk assessment has been prepared to accompany the structural engineering design for the proposed conversion of the barn to domestic use, which requires structural repairs and alterations, for which Baker Brown is acting as Architect and Principal Designer.

Key Health and Safety Risks

Set out below is a summary of the key Health and Safety risks that have been identified in relation to the structural engineering works on this project. By their nature, construction activities involve risk, and it is not possible to eliminate them all in the design. The summary below does not cover obvious risks but aims to highlight the key residual risks which are particular to the structural engineering aspects of the project and how they have been addressed in the design. This covers risks which are unusual, not likely to be obvious, or are difficult to manage.

Summary of Key Residual Risk	Response in the design	Action by the contractor
1. Alterations and repairs to existing structure.	a) Drawings have been prepared showing the existing structural arrangement across the barn. b) Inspections have been carried out to assess the structural condition of the barn and identify where structural repairs are anticipated. Further inspections and checks on the condition of the timber framing will be required as the wall and roof finishes are removed at the commencement of the works on site. c) A structural report has been prepared which discusses the condition of the existing structure, and the approach to the structural alterations and repairs. Areas of specific concern are highlighted which will inform the contractors methods of working, temporary works, costs, and programme.	a) Contractor to follow good working practice and prepare all necessary method statements and sequence of construction proposals for further investigations, inspections, strip out works, repairs and structural alterations. b) Contractor to carry out detailed inspections and other investigations considered necessary before preparing the method statements and the design of temporary works. c) Contractor is review the engineering report and make their own assessment on site before preparing method statements and temporary works proposals.

Conservation Engineering

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Summary of Key Residual Risk	Response in the design	Action by the contractor
2. Working within an existing structure.	a) Inspections have been carried out. These have highlighted the risk of finding surprises in the condition of the existing structure is high.	a) Contractor to follow good working practice and prepare all necessary method statements and sequence of construction proposals for further investigations, strip out works, repairs and structural alterations.
3. Working close to excavations in the ground.	a) A site investigation has been recommended to confirm the existing ground conditions so that the foundation design can be confirmed prior to construction works starting.	a) Contractor to follow good working practice and prepare all necessary method statements and sequence of construction proposals.
3. Noise and dust		a) Contractor to develop proposals for controlling noise and dust.
4. Working at height		a) Contractor to follow good working practices and prepare method statements and sequence of works.
5. Asbestos	a) Refer to the Lead Consultant for details of completed asbestos surveys.	a) Contractor to review asbestos survey, comply with recommendations with due regard to hazards highlighted and follow good working practice.