



JNP GROUP
CONSULTING ENGINEERS

Park Farmhouse

Overview

Park Farmhouse is Grade II listed residential property that required a comprehensive structural assessment. JNP Group were tasked with the inspection and reporting upon existing structural condition and evaluate suitability for both ongoing and proposed use. The scope included calculations to verify the integrity of historic timber elements and the design of any necessary strengthening measures.

Case Study

Design Services Provided

- Inspection and reporting on existing structure
- Providing calculations for historic timber verification
- Designing remedial works and strengthening solutions as required
- Liaising with a heritage consultant
- Assessing condition of historic timber beams



Project Solutions

Given the property's Grade II listed status, the renovation of the residential farmhouse required a sensitive multifaceted approach. To support the planning and conservation process, the client employed a heritage consultant to support with the submission of listed building applications and provide advice with regards to preferred structural solutions to minimise impact to the building's historic fabric.

The historic structure posed several difficulties such as irregular timber beam profiles, the absence of known strength grading and defects. JNP Group's structural engineers carried out a detailed assessment and verification of the structural capacity proposing alterations to the existing structure where required to meet the client's requirements.

Throughout the design phase, JNP group liaised with a heritage consultant and the architect to create a sympathetic design, in keeping with the building's historic character and in the most unobtrusive manner. Alongside this, the historic timber beams were assessed for the effects of decay and suitability for continued use, with remedial strengthening measures specified where required.



Case Study

Project Challenges

- Grade II listed building
- Adhering to guidelines for Listed buildings
- Designing alterations around existing historic structure
- Design calculations for a historic structure
- Designing structural solutions around exiting structure limitations

Project Solutions

- Liaising with Heritage consultant
- Verifying structural details of a historic structure
- Creating minimally intrusive structural solutions
- Assessment of Historic timber decay



Summary

Working collaboratively with a heritage consultant and the architectural team, JNP Group developed a structural strategy that respected the building's historical character while ensuring ongoing safe use and longevity of building lifespan.

We delivered comprehensive designs for sympathetic alterations, targeted strengthening works, and remedial measures for decayed timber, all designed to align with conservation requirements and minimise disruption to the original structure.



Case Study

JNP Group Project Team

Project Manager:

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Project Team:

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