



White Shaw Farm
Heaton
Rushton Spencer
SK11 0SR

Sharon Senn

22nd July 2022

Re: Structural survey of Barn at Cloud Park Farm

Dear Sharon,

Further to my site visit and inspection of the barn at the above property, I would report as follows:

This report concerns the former barn/cow shed at the above which is an open plan single storey load bearing masonry structure with steel trusses clear spanning the building supporting a profiled cement-based roof sheeting. No intrusive or opening up works were carried out and the survey was visual only from ground level.

Gravity loads are supported by the profiled cement roof sheets which are supported by steel angle purlins at regular spacing, which in turn are supported by load bearing walls and steel trusses within the main open plan area, this load is then transferred through walls and foundations in to the founding strata below. The floor construction is solid concrete ground bearing slab founding directly on to the strata below.

Lateral load arising from wind action is transferred to the lateral walls by diaphragm action and bracing of the roof structures and is resisted by shear action of the wall and transferred to the founding strata.

The building is mainly open plan with a small enclosed room at one end formed with a load bearing masonry wall a similar wall at the other end has been partially removed and a beam installed to create a large internal opening. The external walls are flush internally with external buttresses at truss locations.

The external roof construction is generally in good condition, with no sign of any distress or structural movement, likewise the walls externally appear to be in good condition with no signs of foundation movement or distress, it was noted that there is some significant tree and vegetation growth very close to the building and some of the external ground levels require rationalising to ensure they remain below internal floor level.

The foundations were not exposed, however, there was no evidence to suggest any movement has occurred and they appear to be performing satisfactorily

Internally the roof structure appeared to be in good order, the steel elements exhibiting only minor surface corrosion. There were no signs of structural distress or movement to the steel trusses, the internal steel beam supporting the wall appears to be performing satisfactorily.

The concrete floor slab appears to be quite substantial and has been formed at various levels to form drainage and livestock areas, however, remains in good structural condition with no signs of distress or movement.

In conclusion the property is in good structural condition with no serious structural remediation required, only minor maintenance, replacement and cosmetic works are required to enable the building to be converted to a habitable dwelling with no structural strengthening or re-building required.

I trust that the above is satisfactory, however, should you have any queries or require clarification, then please do not hesitate to contact me.

Yours sincerely

S. Naylor

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Photographs



General view of side elevation of barn



General view of gable elevation



General internal view.