

Church Barn, The Street, Morston, Norfolk NR25 7AA

Structural feasibility report

Client: Mr & Mrs Gardoe

Project ref: 23122

Engineer: David Quantrill BEng(Hons) CEng MIStructE



CHARTERED STRUCTURAL ENGINEER

Project no: 23122 24th July 2023

Mr & Mrs Gardoe, Church Barn The Street Morston Norfolk NR25 7AA

Dear Mr & Mrs Gardoe,

RE: Church Barn, The Street, Morston, Norfolk NR25 7AA

We thank you for your recent instruction to undertake a structural inspection at the above property to determine the feasibility of undertaking proposed alterations and extensions.

This is not a full building survey and therefore items of general maintenance and/or a non-structural nature have not been commented on unless they have a direct bearing on structural elements.

This report is based on a non-intrusive, targeted visual inspection only. No intrusive investigations, trial holes etc. were undertaken and we are therefore only able to comment on elements that were visible and exposed at the time of our inspection.

This report is prepared for the addressee only and is not transferrable.

Our report is limited at this stage to commenting on the feasibility of completing the proposed structural work to the property. Additional detailed structural design will be required prior to commencement of any works.







Fig. 2. View of the rear of the property

We confirm having carried out a visual inspection of the property on 6th June 2023.

The property is a former barn, built predominantly in local flint with brick detailing to corners and around door openings. The roof is pitched, covered in clay pantiles and supported on a timber structure comprising common rafters on purlins on intermediate principal trusses.

It is understood that the original conversion to a habitable dwelling was carried out approximately 30 years ago. The conversion appears to have been completed to a reasonable standard and would have been carried out in accordance with the current Building Regulations at the time.

The proposed alterations include single and two-storey extensions to the north and east. Additional internal alterations are proposed for the existing building including removal of internal walls, alterations to the roof structure and changes to existing windows.

The existing structure is of substantial and robust construction. External walls are typically in excess of 400mm thick. Some internal walls within the property appear to be former external walls and are of a similar thickness. It is presumed that the existing foundations will be relatively shallow, albeit that the building does not appear to have suffered significant structural movement.

Any new superstructure elements such as new floor beams required for the proposed alterations may require new columns or masonry piers depending on the condition of the existing walls once exposed. Some localised foundation strengthening may also be required.

It is proposed to raise the collars of the principal roof trusses within the first floor Lounge. From a cursory assessment this appears to be feasible, albeit that this will need to be justified by full structural calculation. Alterations to the roof structure will give the opportunity to increase the insulation levels within the roof.

Overall, the building is in good condition and is certainly suitable for the proposed works without significant loss to the existing fabric.

Reference is made to the photos contained in Appendix A which give a general overview of the property and the defects noted.

We hope that the above is satisfactory, however please do not hesitate to contact the undersigned should you require any further information.

Yours sincerely,

David J Quantrill BEng (Hons) CEng MIStructE



Church Barn, The Street, Morston, Norfolk NR25 7AA

Appendix A – Photographs





Photo 1 -

Photo 2 -





Photo 3 -

Photo 4 -





Photo 5 -

Photo 6 -







Photo 7 -







Photo 9 -

Photo 10 -





Photo 11 -

Photo 12 -



Photo 13 -



Photo 14 -



Photo 15 -



Photo 16 -



Photo 17 -



Photo 18 -





Photo 19 -

Photo 20 -







Photo 22 -



Photo 23 -



Photo 24 -







Photo 25 -

Photo 26 -



Photo 27 -

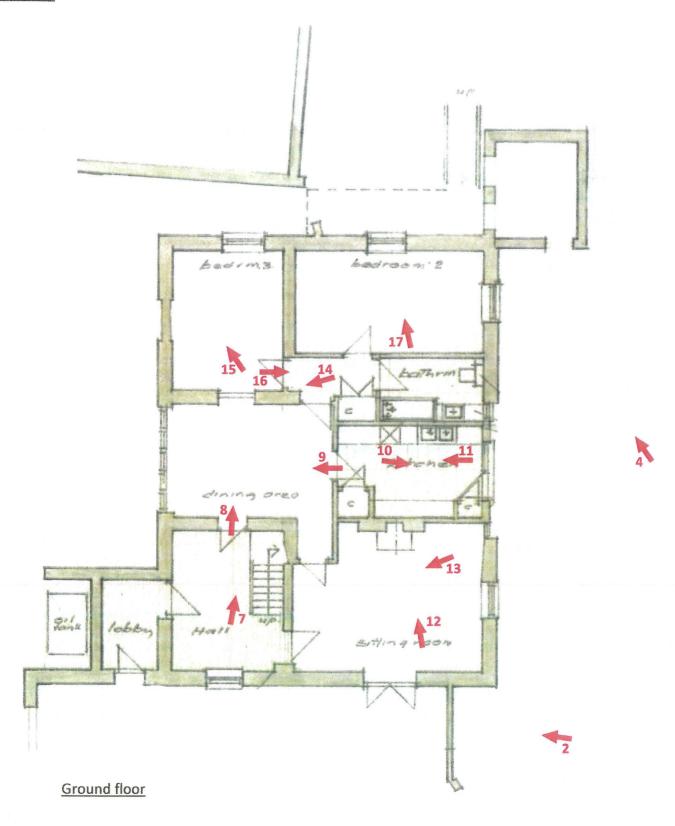


Project Church Barn
The Street
Morston
Norfolk
NR25 7AA

Client Mr & Mrs Gardoe Date July 2023 By DJQ



Photographic key

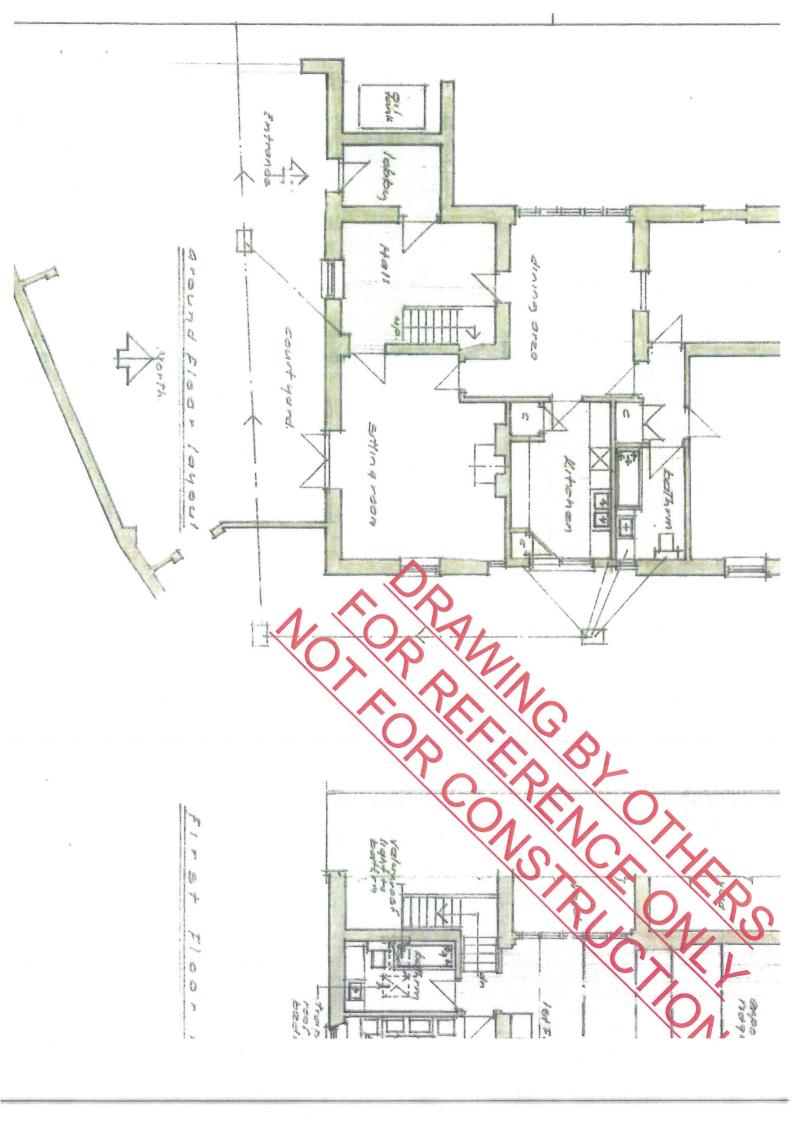


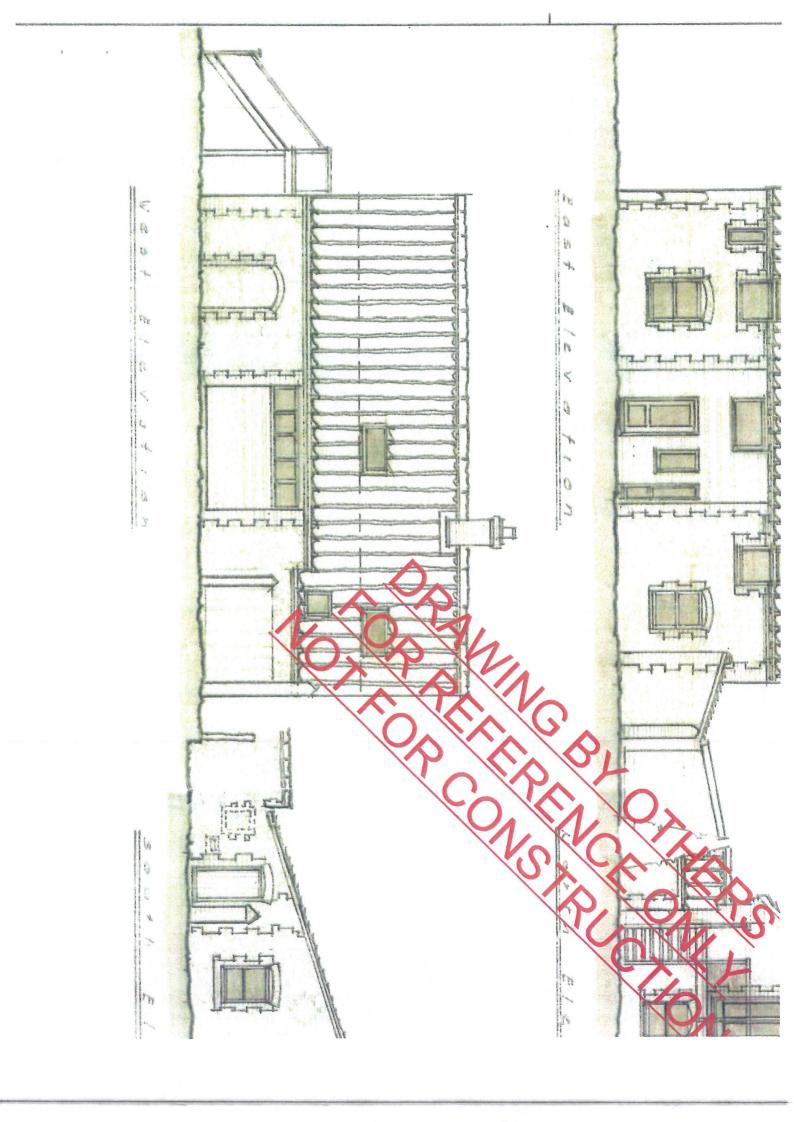


Church Barn, The Street, Morston, Norfolk NR25 7AA

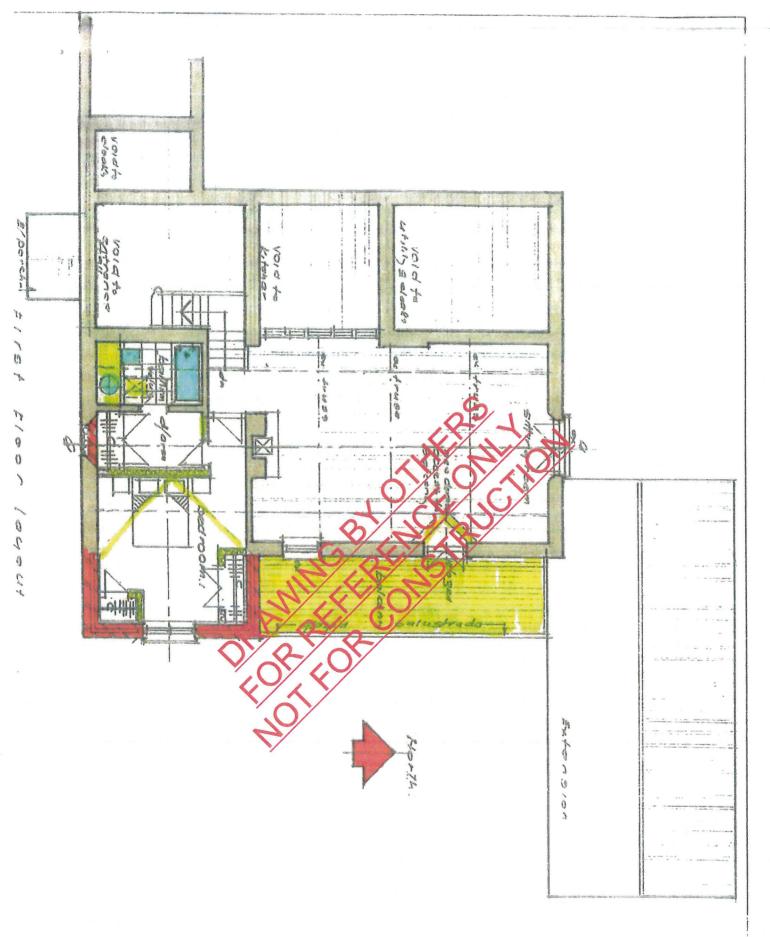
Appendix B – Architectural drawings received

Note – these drawings have been prepared by others and are appended for reference only. These are the latest drawings received prior to production of the preceding and are not to be treated as construction drawings as later revisions of these drawings may exist.





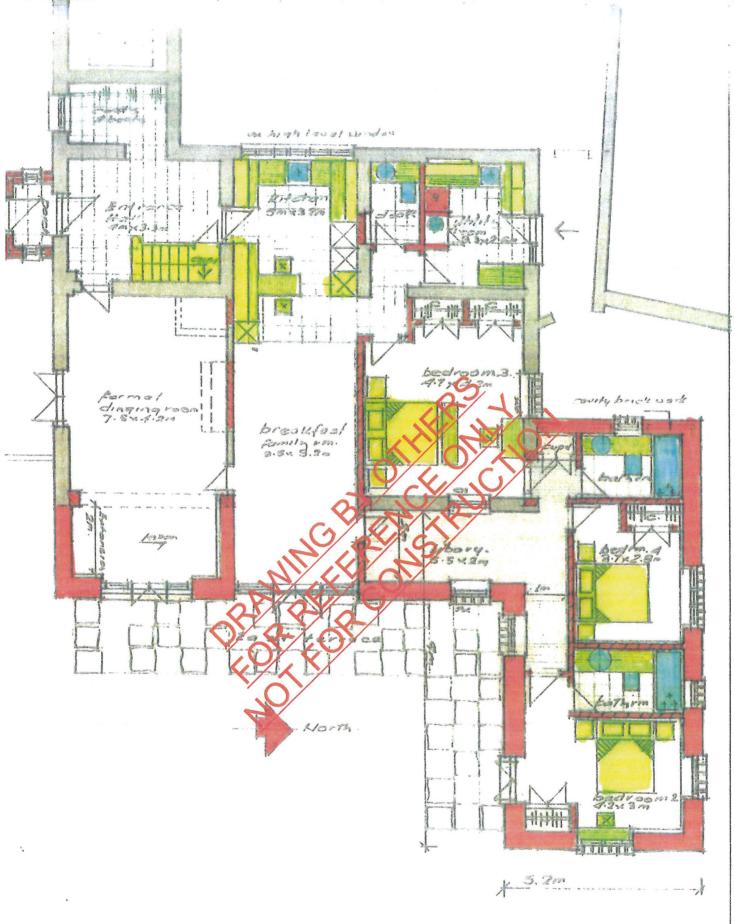




Robert Lord Associates

Architectural Design, Planning & Conservation Consultant 207 Holt Road, Cromer, Norfolk NR27 9JN Tel/Fax: 01263 519707 Mobile: 07765 351752 Scale: 1/105

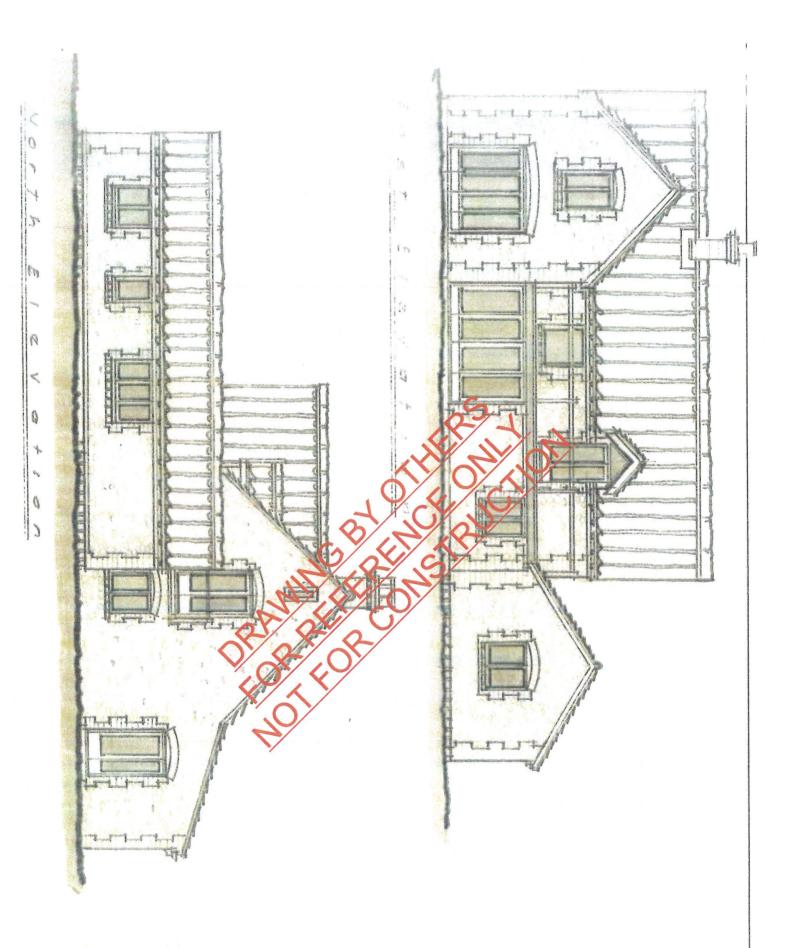
Church Born The street Morston Morfolk KR257AA. Proposed 1st Floor long aut For Mr & Mrs Gardos



Robert Lord Associates

Architectural Design, Planning & Conservation Consultant 207 Holt Road, Cromer, Norfolk NR27 9JN Tel/Fax: 01263-519707 - Mobile: 07765-351752 Scale 1100 1-211211 Apr. 11.18.

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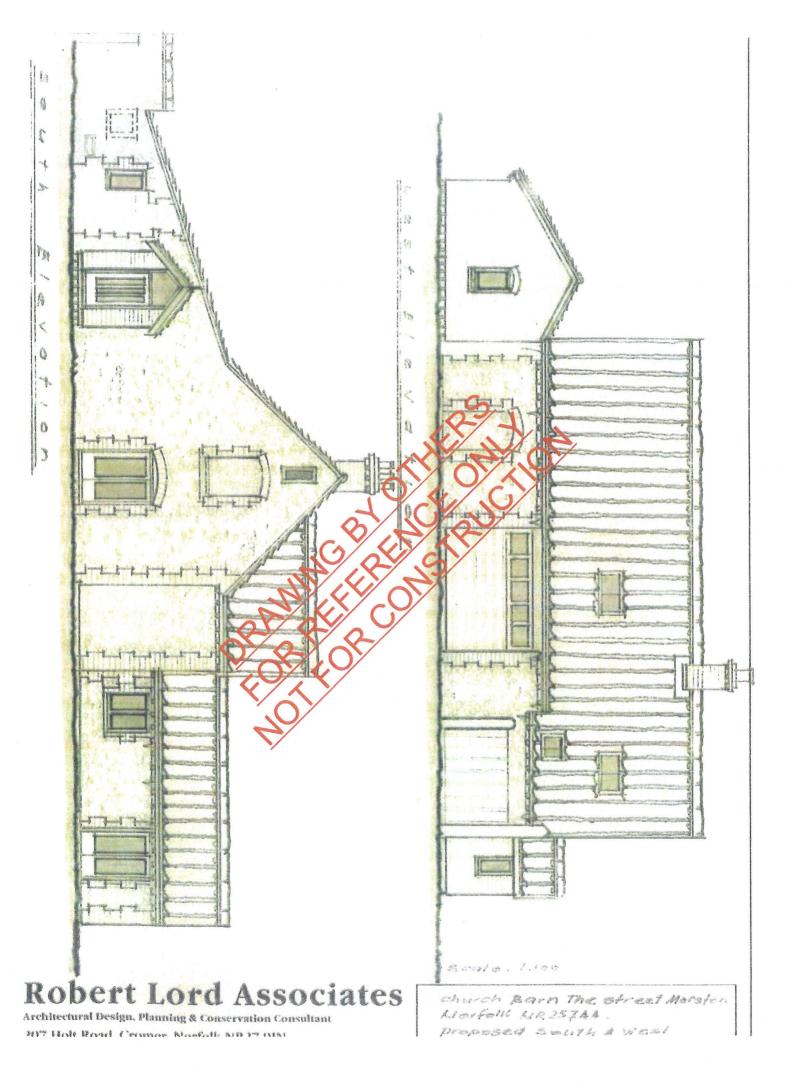


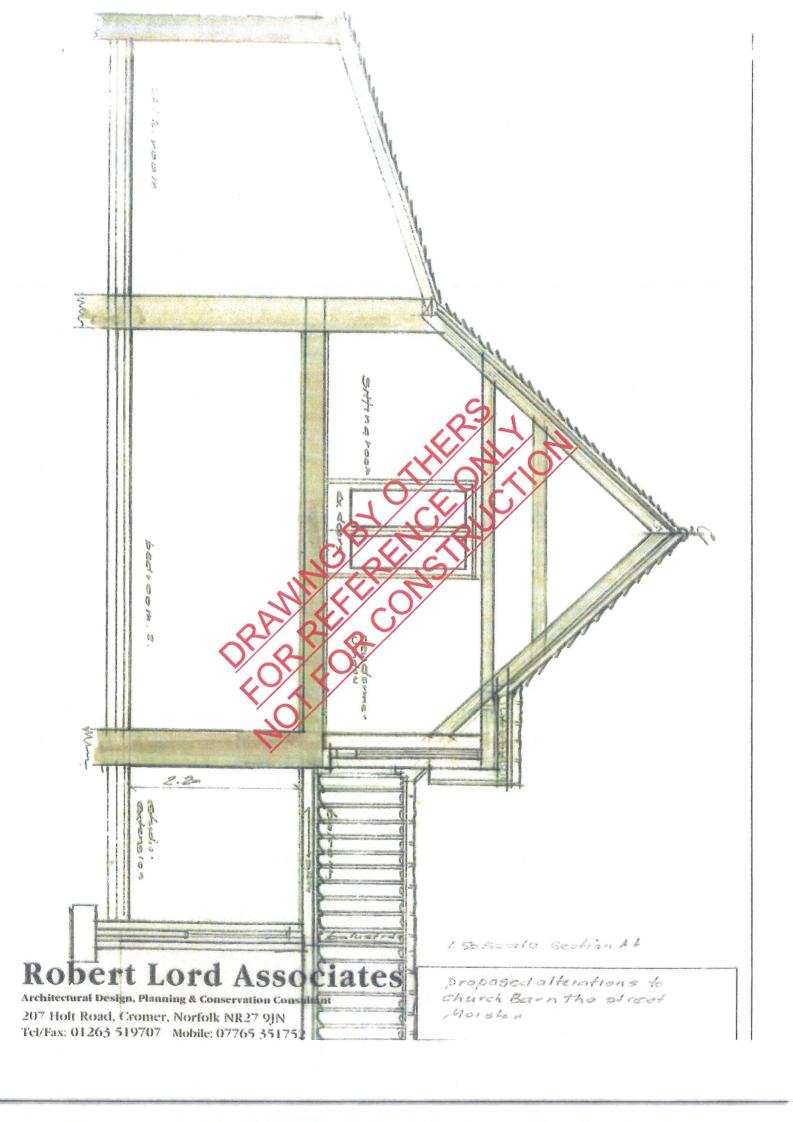
Robert Lord Associates

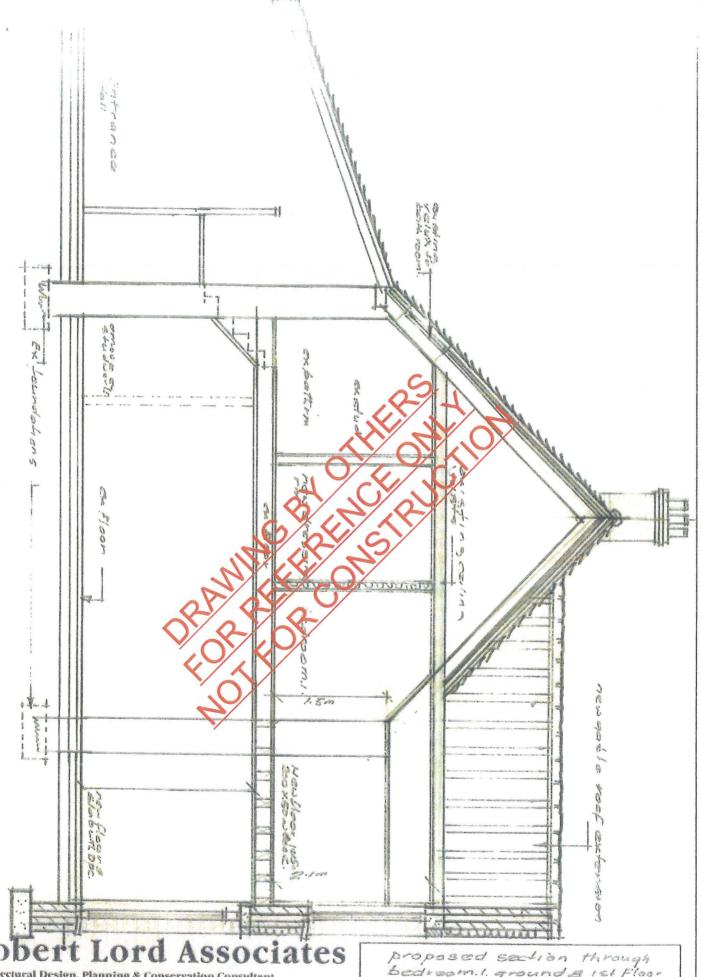
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Church Barn The street Morston Marfalk NR257AA proposed Morth & East Elevation. For Mrd Mrs M. Gardae







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proposed section through bedroom. I. ground & 1st Floor re East extension. Church Barn Morston Harfell NEZEZAL.