



DOCUMENT CONTROL

Report prepared by:

Justín Harvey

Paul Davis

Report reviewed by:

Justin Harvey - ACIOB MPTS
On behalf of J P Chick & Partners Limited

Paul Davis - BSc (Hons) CEng MICE FIStructE
On behalf of J P Chick & Partners Limited

JPC ISSUING OFFICE

7 Museum Street, Ipswich, IP1 1HQ

ISSUE AND REVISIONS RECORD

Document No:	nt No: Issue Date: Issued to:				Format Issued			
					Email	Disk	Digital upload	Post
IA24/005	05/02/2024	Old Bells Construction and Demolition Ltd C/O Wincer Kievenaar Architects						
Document Revision	Issue Date:	Document Revision	Revised	Reviewed				
No:		Comments	by (INT):	by (INT):				
Job no/report/RevA	Click or tap to enter a date.							
	Click or tap to enter a date.							
	Click or tap to enter a date.							



Table of Contents

DOCUMENT CONTROL		1
1.0	BRIEF	3
2.0	BRIEF DESCRIPTION	3
3.0	GEOLOGY	4
4.0	OBSERVATIONS	4
5.0	LIMITATIONS	5
6.0	CONCLUSIONS AND RECOMMENDATIONS	6
7.0	APPENDICES	8
Anne	endix A – Wincer Kievenaar Drawing No. 5889 PA 06 Rev A	9

1.0 BRIEF

1.1 J P Chick & Partners Limited were appointed on behalf of the client by Wincer Kievenaar Architects to undertake an inspection of an existing farm structure on Rookery Farm, as part of a Part Q

Planning Application. This is referenced as Barn 2 shown on the attached plan no.5889 PA_06 A

provided by Wincer Kievenaar Architects, in Appendix A.

1.2 Our appointment was received on 8th January 2024. We attended site on Wednesday 17th January

2024.

1.3 The weather was overcast, calm and remaining dry throughout the period of our attendance.

2.0 BRIEF DESCRIPTION

2.1 Barn number 2 is situated to the Eastern side of the site and is open fronted to its Western

elevation. The structure measures approximately 25m x 12m and is arranged about its long axis in

a North South direction.

2.2 The structure comprises of five portal frames with approximate steel size of 208mm x 140mm, 7mm

columns spaced approximately 6m. There are then intermediate stanchions of approximately 2m

in height to which the internal cladding is mounted. This structure was clearly used as a grain store;

hence the cladding being mounted internally. At 2m and above the side cladding is mounted

externally in the form of corrugated cement sheets. This material accounts for the roof covering as

well.

2.3 The roof structure is principally formed by the spanning members of the portals with the roof

covering supported by a series of unequal angle steel section purlins which span over the portals

running front to rear. There are three such purlins to each side with the profile sheeting attached

with "J" bolts.

2.4 Floors are formed in situ poured ground bearing concrete slabs, which have been laid full width in

4m sections.

2.5 There are a series of Poplar Trees to the Northern edge of the adjacent agricultural field. These are

approximately 30m remote. To the South is a partial hedgerow containing some trees, the largest

of which is considered to be a Sycamore approximately 12m remote from the South elevation and

is approximately 10m in height. To the Southeast approximately 45m remote from the structure is

an agricultural field. This has the commencement of a ditch running in an Easterly direction, at the

time of our inspection there was 100mm depth of water at the bottom of this ditch which was

approximately 1m deep.

3.0 GEOLOGY

3.1 With reference to information published by the British Geological Survey this site is shown to be

underlain by Lowestoft Formation - Diamicton which dominates this area. Diamicton is often

referred to as Boulder Clay. This is underlain at depth by Crag Group – Sand, forming the Bedrock

geology. Based upon information from the same source the clay is considered likely to be well in

excess of 20m thick.

4.0 OBSERVATIONS

4.1 Columns and portals are typically seen to be plumb with some minor vertical misalignment

(estimated as no more than 5mm) along the rear or Eastern elevation of the barn, but nothing which

translates into any distortion, stress or movement seen to connections internally within the barn.

4.2 Internally mounted panelling to low levels has suffered some lateral distortion, particularly near

finished floor level, and is likely to be as a result of the use of the structure and stored materials

therein. At the time of our inspection the North end of the barn had a stockpile of stone situated

against the external wall.

4.3 Bracing including the high-level diagonal struts to the open side of the barn are intact with no signs

of any racking or distortion in either direction.

4.4 The roof is formed by the spanning portals which support a series of galvanised 'Z' type purlins, all

of which appear to be in reasonable condition as is the existing cladding, although there is some

deterioration to the rear roof pitch toward the Southern end of the structure where daylight is

Rookery Farm, Haughley Green, Stowmarket, IP14 3RR - Barn 2

JP Chick & Partners Ltd
Consulting Civil & Structural Engineers

visible through some of the troughs of the asbestos cement sheeting. Otherwise, all fixings, 'J' bolts

etc., appear to be in reasonable condition.

4.5 Floors comprise of ground bearing slabs, considered to be in the region of 125mm thick. These

have been formed in six bays, and those which are visible appear to be level without any obvious

articulation. There is a single crack noted toward the Northern end of the barn, partially obscured

by the stored stone material. This would tend to indicate that there has been some slight

articulation and rotation of the slab in this area, toward the Eastern elevation of the barn, however

cracking appears to be longstanding.

4.6 Rainwater is currently directed to the North end of the structure and is discharged blindly onto the

ground.

5.0 LIMITATIONS

5.1 This report shall be for the private and confidential use of the client for whom it was undertaken,

and it should not be reproduced in whole or in part or relied upon by third parties for any use

without the express written authority of J P Chick and Partners Limited.

5.2 Unless stated otherwise in the report, we have not disturbed or removed any fixtures or linings.

Coupled with this, we have not exposed the foundations or tested the drains serving the site or

individual barns. We are therefore unable to report that such part of the property is free from

defect or that these satisfy current building regulation.

5.3 We have not inspected woodwork or other parts of the structure, which are covered, unexposed

or inaccessible and we are therefore unable to report that any such part of the property is free from

defect.

5.4 The condition of the finishes, waterproofing, damp penetration and structural timbers, unless

specifically referred to, are not the subject of this report. We would recommend the services of a

specialist to cover these areas.

5.5 We have not undertaken any environmental or contamination assessment of the site and any such

requirement would be subject to a separate commission.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Based upon our inspection we consider that the portal frames are free from any obvious or

significant distortions or stresses and shows no signs of any impact from any vehicles or machinery.

We consider that the portal frames, subject to cleaning and reapplication of a protective coating

will be suitable for incorporation into any development scheme going forward.

6.2 We consider that there will be a requirement to replace the corrugated cement sheet cladding to

both the upper walls and roof with a more contemporary material. The plans indicate that this may

be an upstand seamed roof and vertical cladding. The internally mounted steel profile cladding has

suffered damage over time as a result of the use of the structure with lateral displacement of the

sheeting at low level. This does not appear to have impacted on the columns or intermediate

stanchions forming the frame. This internal cladding material is considered inappropriate for

retention as part of any domestic proposal.

6.3 We consider that the structure can be suitably braced as part of the proposals with the use of an

external cladding system and insulated panels, or masonry, which will be used to infill between the

portal frames. Internal walls are also shown to be proposed between the locations of portals,

enabling these new installations to offer further robustness to the structure. We have not

undertaken any physical assessment of foundations and are not able to comment on the adequacy

of these or whether they comply with statutory requirements.

6.4 The roof structure comprises of the spanning members of the portal frames and the Z purlins, both

are suitable for retention and incorporation into any proposed scheme. The proposed layout of the

dwelling is likely to provide some additional support to the new roof. It is likely however, that the

construction thickness of the roof will increase to obtain sufficient thermal performance and

therefore a deeper purlin section may be required.

6.5 The roof covering will require replacement with a more contemporary and suitable material

indicated within the details as being zinc sheet material or an upstand seam type roof, which is

likely to have similar weight to the asbestos cement sheeting already in place and therefore should

be on a like for like basis with regard to loading.

6.6 The existing concrete floor slabs are relatively sound and free from any obvious articulation or

movement. There is a single crack noted toward the Northern end of the structure and this may be

associated with the waterlogged area to the east beyond the footprint of the structure. Slabs

however are considered suitable for utilisation as an over site slab subject to architectural, damp

proofing details and ceiling heights.

6.7 There is currently no obvious provision for existing surface water run off from the structure which

directs onto the ground to its Northern end. In the event that there are no positive connections to

be had nearby then consideration could be given to piping water to the nearby ditch, subject to the

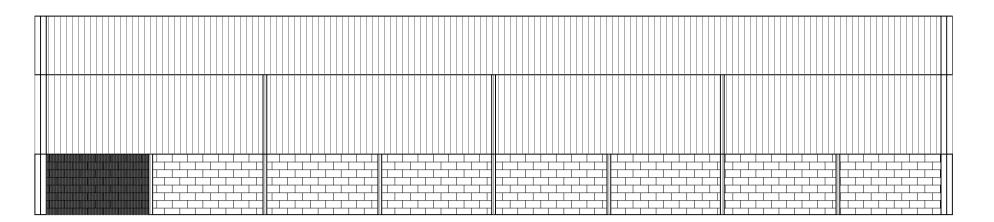
appropriate permissions.



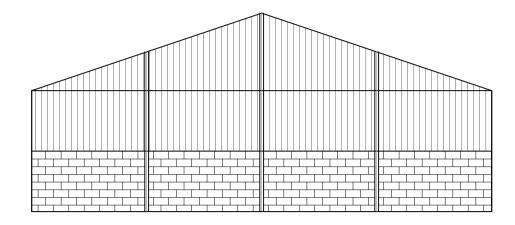
7.0 APPENDICES



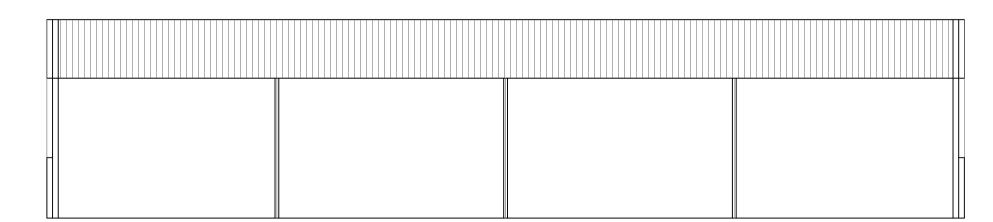
Appendix A – Wincer Kievenaar Drawing No. 5889 PA_06 Rev A



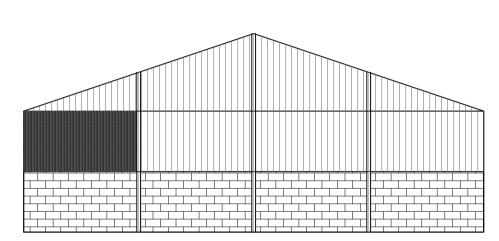
EXISTING EAST ELEVATION



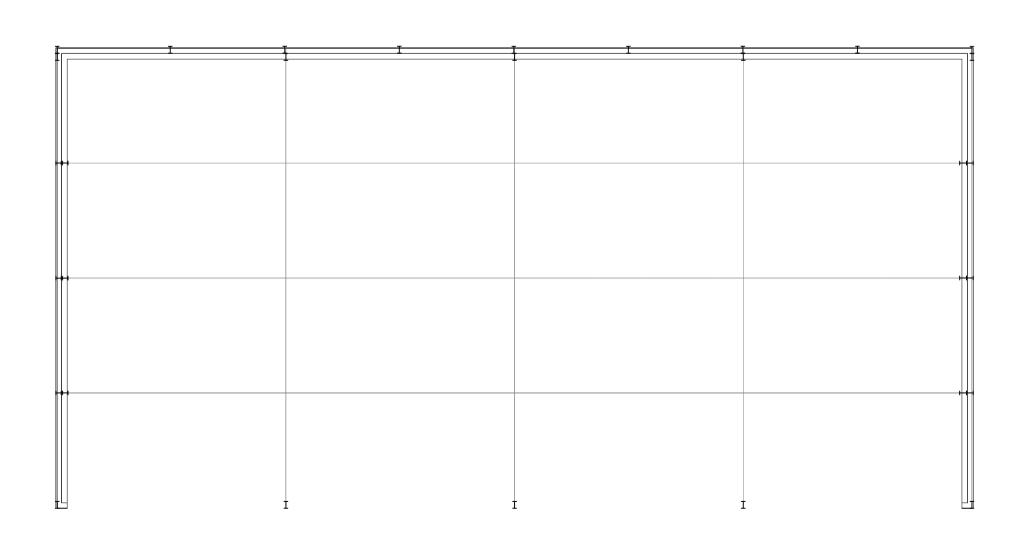
EXISTING SOUTH ELEVATION



EXISTING WEST ELEVATION



EXISTING NORTH ELEVATION



EXISTING BARN 2 PLAN



SITE KEY PLAN 1:1000



REVISION DESCRIPTION DATE DRAWN CHECK
A Revised following client meeting 12/12/2023 EB CW

5889 PA_06

EXISTING BARN 2 - PLAN AND ELEVATIONS

SHEET SIZE A1

снеск СW

SCALE 1:100

ISSUE DATE 28/11/2023

AUTHOR EB

Proposed Class Q Residential Development
Rookery Farm, Haughley Green
Stowmarket, Suffolk IP14 3RR

CLIENT Mr I. Robinson

STATUS PLANNING



RIBA 🗯

Market Place / Hadleigh / Ipswich / Suffolk / IP7 5DN T / 01473 827992 E / enquiries@wk-architects.co.uk Do not scale from drawing; work to figured dimensions only. Copyright © Wincer Kievenaar Architects Limited 5889_FE_Barns.vwx