

PLAN AT GROUND FLOOR LEVEL AS PROPOSED (1:50)

General repair of timber framing required including: Repair or replacement of ALL timber members (Studs/soleplates/headplates/diagonal braces etc) affected by rot and associated defects.

Main timber cross beams to be reconnected to main timber posts and be generally strengthened as described on the first floor plan in order to support additional loading from new mezzanine floor.

Perimeter plinth wall to be repaired and re-pointed where necessary.

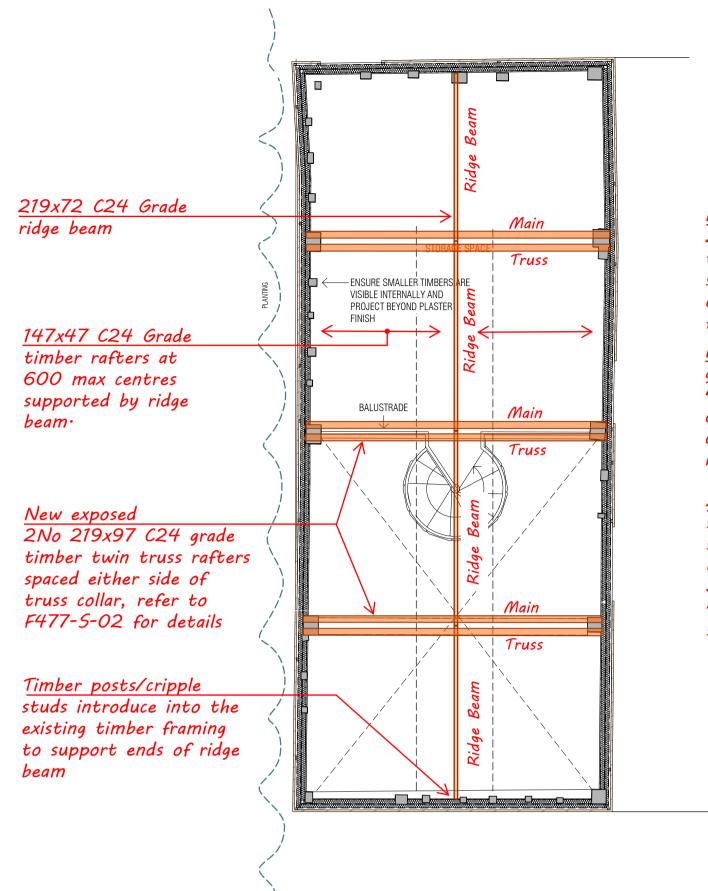
Note! Perimeter plinth wall may require underpinning subject to form of construction of existing footing. Ref to F477-5-03.

PLAN AT MEZZANINE FLOOR LEVEL **AS PROPOSED (1:50)**

General repair of timber framing required including: Repair or replacement of ALL timber members (Studs/soleplates/headplates/diagonal braces etc) affected by rot and associated defects.

Main timber cross beams to be reconnected to main timber posts and be generally strengthened as described on the first floor plan in order to support additional loading from new mezzanine floor.

Renovation of perimeter timber frame walls to incorporate OSB sheathing to enhance structural integrity and overall stability of building.



147x47 C24 Grade rafters at 600 max centres New exposed 2No 219x97 C24 grade timber twin truss rafters spaced either side of truss collar, refer to F477-5-02 for details Introduce 147x47 C24 grade timber floor joists at 400 max centres, spanning onto existing main timber cross beams to create mezzanine floor space 2No 120x10thk (5275) steel flitch plates, bolted to sides of existing cross beams using M12 bolts with 36øx3thk steel washers at 400x80 staggered centres, see F477-S-03 for details Replace existing floor with

150mm thk concrete ground

throughout top with 1 layer

of mesh BS Ref A193

(50 concrete cover) on

150mm well compacted

granular fill.

floor slab on DPM, reinforced

Perimeter plinth wall to be repaired and re-pointed where necessary. Note! Perimeter plinth wall may require underpinning subject to form of construction of existing footing. Ref to F477-5-03.

219x72 C24 Grade

147x72 C24 Grade

central truss collar

at 600 max centres

147x47 C24 Grade rafters

Ridge Beam

TYPICAL SECTION AS PROPOSED (1:50)

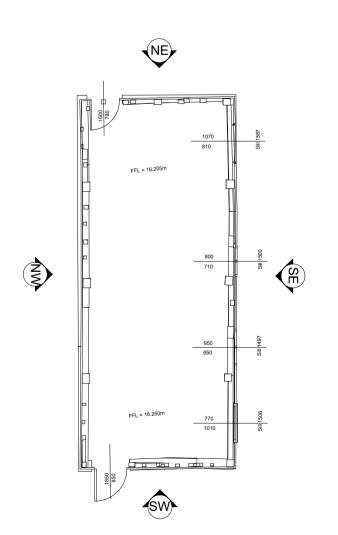
Whilst it is acknowledged that the existing timber framing to the barn will need to undergo a regime of general repair and renovation, which will inevitable require the introduction of new replacement members, every effort will be made to repair and retain as much of the existing timber framing as is practically possible.

PLAN AT ROOF LEVEL AS PROPOSED (1:50)

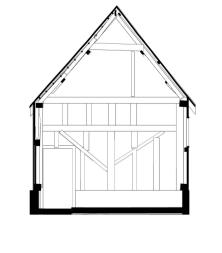
The existing roof is to be removed, retaining existing rafters for re-use where possible.

New exposed timber trusses with raised collar on lines of existing main timber frames are to be introduced to support new timber ridge beam.

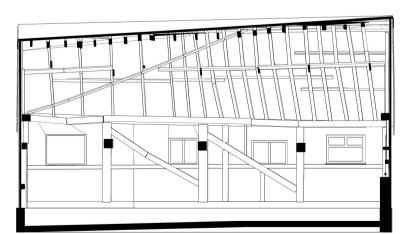
Roof construction to incorporate OSB sheathing to enhance structural integrity and overall stability of building.



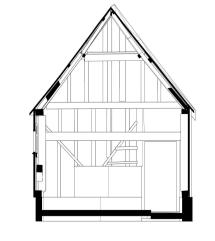
GROUND FLOOR PLAN <u>(1:100)</u>



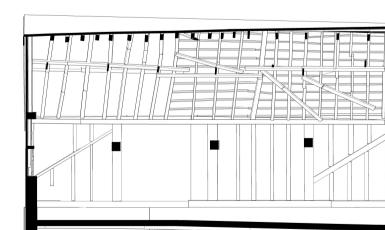
INTERNAL ELEVATION ON NE GABLE END <u>(1:100)</u>



INTERNAL ELEVATION ON SE SIDE WALL <u>(1:100)</u>



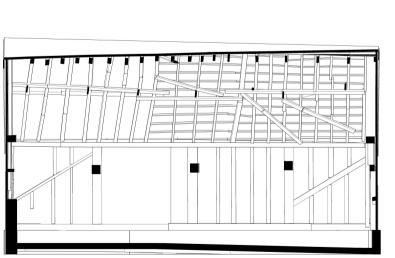
INTERNAL ELEVATION ON SW GABLE END <u>(1:100)</u>

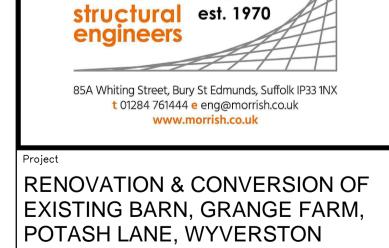


INTERNAL ELEVATION ON NW SIDE WALL <u>(1:100)</u>

PLAN & ELEVATIONS AS EXISTING (1:50)

Whilst it is acknowledged that the existing timber framing to the barn will need to undergo a regime of general repair and renovation, which will inevitably require the introduction of new replacement members, every effort will be made to repair and retain as much of the existing timber framing as is practically possible.





morrish

Description

GENERAL ARRANGEMENT SHOWING STRUCTURAL PROPOSALS

J Parker/RH NFP/JP 1:50 at A1 size AUG 2021

F477 - S - 01