

SUBSTRUCTURE LAYOUT

ROOF JOISTS 125 x 64 PFC N M N

> GROUND FLOOR LAYOUT (SHOWING STRUCTURE OVER)

e dundee@morganassociates.uk.com www.morganengineers.co.uk t 01382 224476 project Alterations & Extension 1. ALL IN ACCORDANCE WITH BS 5268.

at The Cottage WELLBANK MAINS

GENERAL NOTES:

SPECIFICATIONS.

NECESSARY.

WAS DETECTED.

SUBSTRATE AT 0.4m DEPTH.

SLOWEST RATE OF 26.0 s/mm

HEALTH & SAFETY:

WOULD NOT BE AWARE.

SHOULD INCLUDE:

FOUNDATIONS:

MASONRY:

4. MORTAR DES (iii)

LINTELS:

FROST COVER TO UNDERSIDE.

1. ALL IN ACCORDANCE WITH BS 5628.

ADJACENT JAMBS & JOINTS.

TO ARCHITECTS SPECIFICATION.

IN SUBSTRUCTURE UP TO 400mm.

3. USE TYPE U2 100 x 145mm.

date description

3. BLOCKWORK MIN 7N/mm² NORMAL DENSE.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND

2. DO NOT SCALE FROM THIS DRAWING. FOR ALL SETTING OUT DIMENSIONS REFER TO THE ARCHITECTS DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES TO BE REPORTED

THE WORKS AND PROVIDE TEMPORARY SUPPORTS AS

3. SAFETY AND STABILITY OF THE WORKS DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR WHO SHOULD PHASE

4. ALL PROPRIETARY ITEMS TO BE INSTALLED IN ACCORDANCE WITH

1. GEOLOGICAL MAP INDICATES AREAS OF ROCK AT OR NEAR SURFACE. ALSO OLD QUARRY TO THE NORTH, AND COMPACT

2. EXTERNAL INSPECTION & PERCOLATION TESTING ATTENDED BY G.MOWAT 8-10-20 TOGETHER WITH MR STUART RICHARD. . MR RICHARD ADVISED AS FOLLOWS. THE ORIGINAL BUNNGALOW CAVITY BRICK WITH JOINER BUILT ROOF AND CONCRETE FLOORSLAB DATING FROM CIRCA 1954, WITH ALTERATIONS AND EXTENSION WITH SUSPENDED TIMBER FLOOR CIRCA 1985, AND THERE TO BE NO SIGNIFICANT INTERNAL, CRACKING OR STRUCTURAL DEFECTS. HE HAD EXCAVATED SOME TRIAL HOLES AHEAD OF INSPECTION MEETING AND ADVISED SOAKAWAY IN THE CLAY SUBSTRATE TO HAVE TAKEN 12 HOURS FOR 150mm. 4. NO SIGNIFICANT HOUSE CRACKING OR STRUCTURAL MOVEMENT

. TRIAL PIT AT EAST GABLE NORTH PROVED TOPSOIL AND BRICK UNDERBUILDING OVER CONCRETE FOUNDATION CIRCA 50mm THICKNESS AND SCARCEMENT ONTO REDDISH SANDY CLAY

3. TRIAL PIT IN THE GARDEN TO THE SOUTH EAST PROVED 0.35m ORGANIC TOPSOIL OVER FIRM DARK BROWN SILTY CLAY TO 0.8m . WITH THE CLAY SUBSTRATE BEING SUCH LOW PERMEABILITY PERCOLATION TESTING WAS CARRIED OUT IN THE GARDEN TO THE SOUTH BY G.MOWAT OF MORGAN ASSOCIATES WITH

. MORGAN ASSOCIATES ARE NOT AWARE OF ANY ABNORMAL

SIGNIFICANT RISKS FOR WHICH THE CONTRACTOR SHOULD PROVIDE METHOD STATEMENTS WITH MITIGATING MEASURES

b) VEHICLE / PLANT MOVEMENTS & CONTROL MEASURES c) LIFTING HEAVY LOADS & CONTROL MEASURES

. SAFETY & STABILITY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR WHO SHOULD BE COMPETENT & EXPERIENCED IN THIS TYPE OF WORK AND PROVIDE TEMPORARY WORKS DESIGN, INSTALLATION, PROTECTION AND SAFEGUARDS AS NECESSARY.

. STRIP FOUNDATIONS TO FAIR IN AND KEY OVER EXISTING. 150mm SCARCEMENT 150mm THK MIN WITH MIN 450mm GROUND

CONSERVATIVE ALLOWABLE BEARING PRESSURE OF 50kN/m² IN

3. REMOVE ORGANIC TOPSOIL & DELETERIOUS MATERIAL. 4. USE UNREINFORCED CONCRETE GRADE GEN 3 TO BS 8110 & BS

2. FACING QUALITY BRICK TO ARCHITECTS SPECIFICATION.

5. SUBSTRUCTURE CAVITY CONCRETE FILL AS FOUNDATIONS. PROVIDE CAVITY TIES AS RECOMMENDED BY ANCON. SUBSTRUCTURE TYPE RT2 AT 900 x 450 CRS.

TIMBER FRAME TYPE STF6 AT 600 x 450 CRS AND 225 CRS

. MOVEMENT JOINTS 10mm THK HYDROCELL WITH 200 x 20 x 3mm STAINLESS STEEL SLEEVED STRAPS AT 450mm CRS, SEAL & FINISH

8. CAREFULLY CUT & REMOVE WALL HEAD INCLUDING FULL HEIGHT 9. REBUILD AT STEEL POST AS NECESSARY KEYING IN TO MATCH EXISTING WITH WALL STARTER FIXINGS AS RECOMMENDED BY

AS RECOMMENDED BY ROBESLEE WITH MIN 150mm SEATINGS.
 FOR OPENINGS IN OUTER LEAF UP TO 2400mm AND FOR SERVICES

5. PLACE ON FIRM CLAYEY SUBSTRATE DESIGNED FOR

CASE OF SATURATION FROM GROUND WATER.

d) MAINTAINING STABILITY DURING WORKS AND PROVISION OF TEMPORARY SUPPORTS TO CONTRACTORS DESIGN

TEMPORARY SUPPORT DESIGN AT ROOF WOULD BE EXPECTED TO BE SATISFACTORY INCORPORATING ACROW PROPS AT 900mm CRS WITH FIXINGS AND SPREADER BATTENS OFF HARD GROUND.

a) WORK AT HIEGHT & WORKING PLATFORMS

CONDITIONS OR RISKS OF WHICH A COMPETANT CONTRACTOR

IMMEDIATELY TO ARCHITECT/ENGINEER.

THE MANUFACTURERS RECOMMENDATIONS.

EXISTING CONDITIONS:

SANDY CLAY TILL TO THE SOUTH.

STRUCTURAL LAYOUTS

Consulting Civil and Structural Engineers 30 Whitehall Street · Dundee · DD1 4AF

FROM THE ARCHITECT AND ENGINEER PRIOR TO MANUFACTURE sheet size RH Nov 2020 1:50

drawing number

5. BEAM WALL SEATING MIN 150mm.

CONCRETE AS GROUNDSLAB.

80 MICRONS MIN AND BITUMEN PAINT.

STEEL:

TO MANUFACTURE.

GROUNDSLAB: 1. FINISH INCLUDING SCREED & INSULATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO ARCHITECTS

SPECIFICATION. 2. SLAB 150mm THK CONCRETE GRADE C35 TO BS 8110 & BS 8500

1. ALL IN ACCORDANCE WITH BS 5950 AND THE NSSSBC.

2. CONTRACTOR TO OBTAIN APPROVAL COMMENTS ON HIS

FABRICATION DRAWINGS FROM ARCHITECTS & ENGINEER PRIOR

3. USE GRADE 275 GRIT BLAST TO SA 2-5 ZINC PHOSPHATE PAINT TO

4. CONNECTIONS MIN 2No 12mm DIA GALVANISED WITH 8mm THK PLATE. EXPOXY ANCHOR POST BASEPLATE TO PADSTONES AT CORNER OF EXISTING UNDERBUILDING 400 x 100 x 200mm DEEP

WITH A142 FABRIC REINFORCEMENT BOTTOM WITH 300mm LAPS AND 20mm MIN COVER. 3. DPM TO ARCHITECTS SPECIFICATION.

AND COMPACTED IN LAYERS AS NECESSARY ALL TO DOT SPECIFICATION. 5. REMOVE ORGANIC TOPSOIL & DELETERIOUS MATERIAL DOWN TO CLAYEY SUBSTRATE FORMATION.

4. MIN 150mm THK SUB-BASE TYPE 1 BLINDED WITH QUARRY DUST

WINDOWS & FIXINGS: 1. ALL WINDOWS GLAZING TO BE NOT MORE THAN 1.2m HEIGHT

FIRE RATING & PROTECTION:

1. AT LEAST 30 MINS WITH BOARDING AS ADVISED BY THE

ARCHITECT.

TILING 0.75kN/m² 2. ALL TO BE IN ACCORDANCE WITH BS 6262. SARKING 0.2kN/m² CEILING SERVICES 0.25kN/m² STRUCTURE BY CONTRACTOR IMPOSED 0.75kN/m²

TANK NONE

2. USE GRADE C16 MIN UNLESS NOTED OTHERWISE.

JOISTS MIN 147 x 44 AT 600mm CRS.

STUDS MIN 140 x 44 AT 600mm CRS

FIRRING MIN 25mm THK WITH 5mm DIA SCREW FIX WITH 25mm

HEADSIDE & 40mm POINTSIDE PENETRATION AT 300mm CRS

4. EXTERNAL WALLING
9mm THK PLY SHEATHING WITH 3 x 50 NAILS AT 150mm CRS

5. PROVIDE TRUSS CLIPS ALL ROUND ROOF EDGES AS

7. ROOF SARKING TO BE LAPPED TO EXISTING.

FOR PROVISION OF FORM Q FOR COMPLETION.

2. DESIGN IN ACCORDANCE WITH BS 6399 & BS 5268

EXISTING WALL HEAD AT FLAT ROOF.

LINTELS MIN 3No 170 x 44 ON CRIPPLE STUDS SPIKED TO FULL

6. PROVIDE HILTI ANCHORS 8 x 100 AT 400mm CRS TO WALL FOOT

8. PROVIDE JOIST HANGERS AS RECOMMENDED BY SIMPSON OVER

TO BE DESIGNED BY CONTRACTOR WHO SHOULD OBTAIN

APPROVAL COMMENTS ON HIS DETAILS AND CALCULATIONS

FLAT ROOF

HEIGHT STUDS.

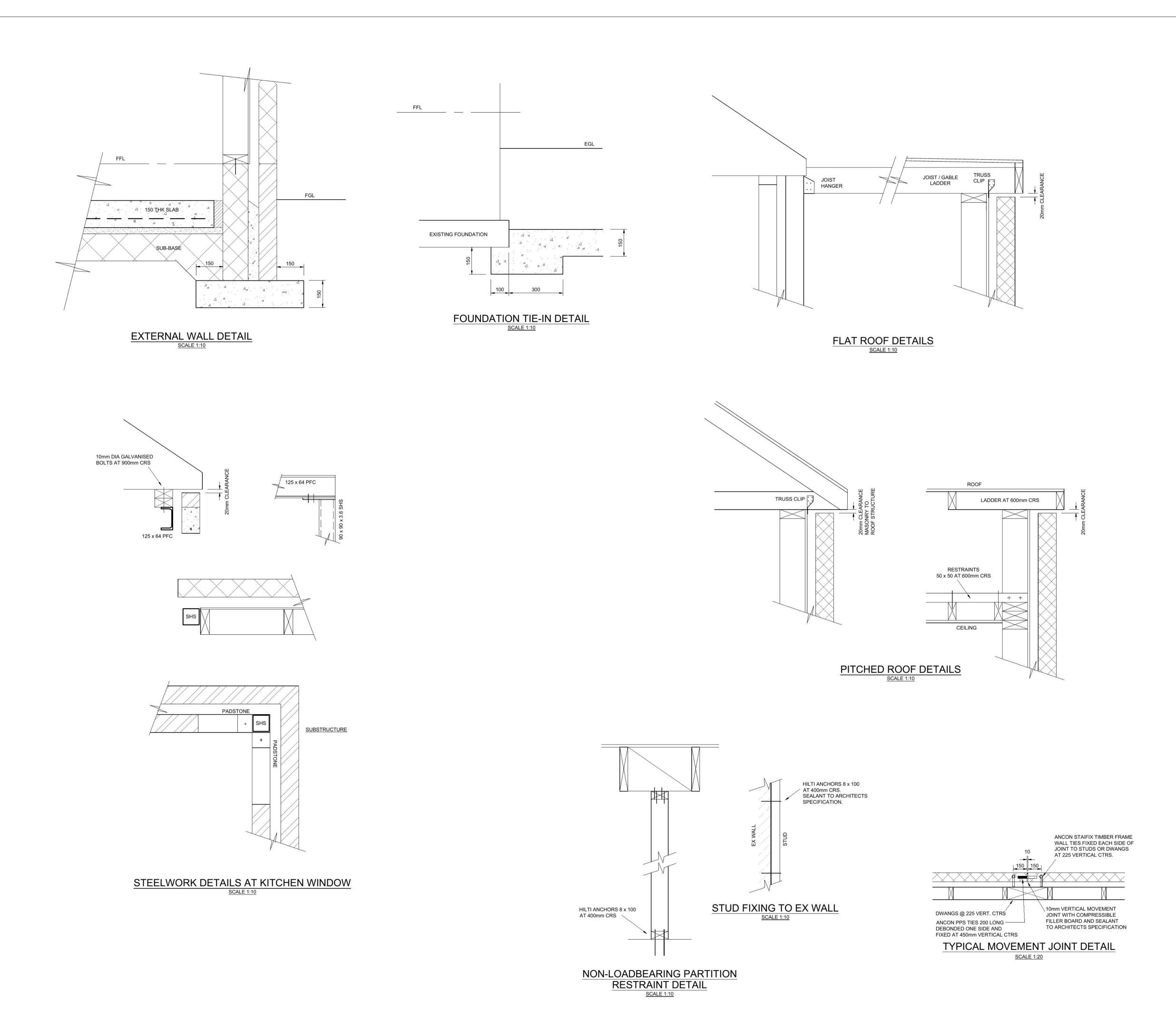
RECOMMENDED BY BAT.

AND EXISTING WALL.

ROOF TRUSSES:

LOADINGS:

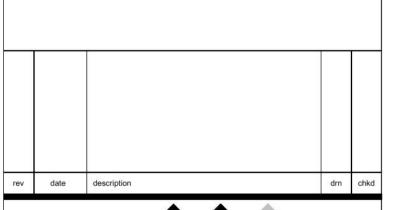
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ALL PROPRIETARY ITEMS TO BE INSTALLED IN ACCORDANCE WITH
THE MANUFACTURERS RECOMMENDATIONS.





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Alterations & Extension at The Cottage
WELLBANK MAINS

STRUCTURAL DETAILS

MA 20086-002

	drawn	checked	sheet size	date	
	RH	GM	A1	Nov 2020	
	scales Varies				
	drawing number			rev	