## **EXISTING SECTION A 1:50**

existing dormers

Existing 178 x 102 UB Purlins

50 x 75mm timber rafters over

Dormer built up off

existing 75 x 225mm

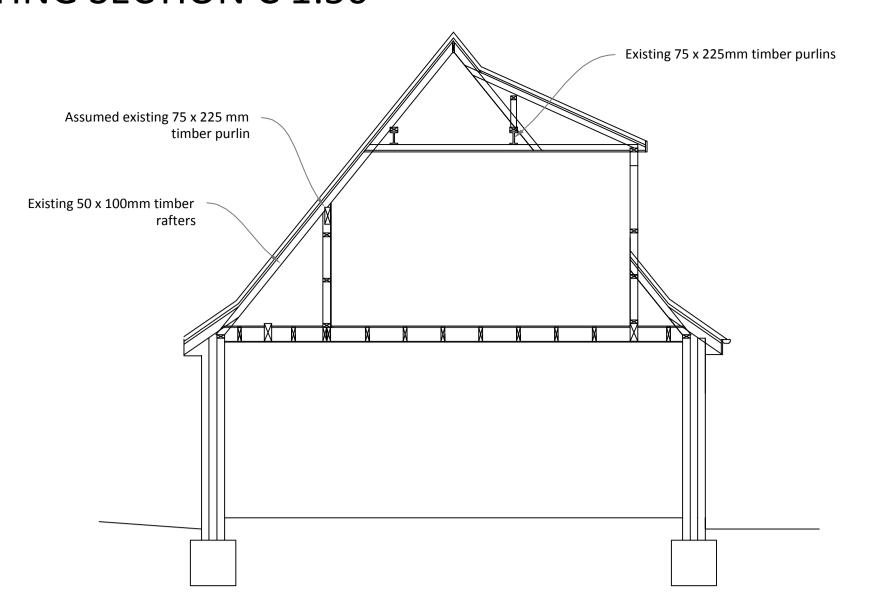
timber floor beam

### **EXISTING SECTION B 1:50**

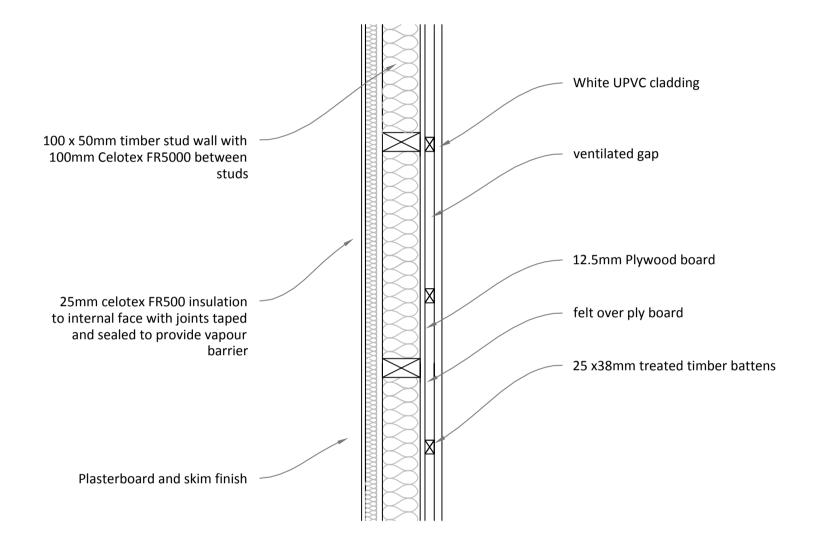
# Stud frame built up above purlins to support dormer rafters Existing 75 x 225mm timber purlins Assumed existing 75 x 225 mm timber purlin 50 x 75mm timber ceiling spas Existing 50 x 100mm timber rafters Dormer built up off existing 75 x 225mm timber floor beam

#### PROPOSED SECTION A 1:20 Build up stud frame off timber and steel purlins Dormer roof to sit just below existing ridge tile to support dormer rafters (existing frame to be increased where necessary) Glidevale breatherable felt draped between rafters with 25 x 37mm treated timber battens 50 x 150mm timber rafters at 400mm centres, above with Brown marley modern smooth max span 3.54m concrete interlocking tiles to match existing, min 17.5 degree pitch Glidevale breatherable felt draped between 50 x 150mm timber rafters at 400mm centres, rafters with 25 x 37mm treated timber battens max span 3.54m (rafter size increased to above with Brown marley modern smooth accommodate future solar panels) concrete interlocking tiles to match existing, min 17.5 degree pitch Extend out existing ceiling spas with 50 x 125mm timber ceiling joists at 400 centres, max 2.56m span Insulate whole of ceiling area with 270mm rockwool insulation laid at right angles (improve existing ceiling where necessary) 100 x 170mm timber beam over windows to support rafter feet 100 x 170mm timber beam over windows to support rafter feet Vertical studs to be doubled up either side of window Vertical studs to be doubled up either side of window openings White UPVC double glazed UPVC windows to achieve 1.6 U value and be means of escape compliant White UPVC double glazed UPVC windows to achieve 1.6 U value Replace existing timber purlin See detail for dormer wall construction with 127 x 76 x 13 UB purlin sat onto concrete padstones 100 x 50mm timber stud wall with 50 x 100mm head and sole plate with vertical 100 x 50mm timber stud wall with 50 x 100mm Fix rafter feet through to new head and sole plate with vertical studs ceiling joists to further support triangulation Lead flashing onto existing roof 900 Dormer stud wall to be built up on internal leaf of ground floor wall See detail for dormer wall construction Ensure min of 300mm of roof slope left in-situ to comply with permitted development legislation Fix existing trimmed rafters through to new dormer Double up floor joists under new stud partition construction Replace existing 75 x 225mm Provide 100mm rockwool sound insulation timber purlin with steels 152 x89 between floor joists x16 UB purlins sat onto concrete Existing lintels above ground floor windows may not padstones be suitable for additional spans therefore install ER7 100 x 215mm Naylor pre stressed concrete lintel above existing lintels Existing 75 x 225mm floor beam to be removed and existing 50 x 195mm timber floor joists Lintels can be reduced to an ER2 100 x 140mm over Extend existing 50 x 195mm timber floor joists extended to dormer wall to new dormer wall bathroom and dining room windows Galvanized metal restraint straps taken across 3 floor joists with timber noggins

### **EXISTING SECTION C 1:50**



### DORMER SECTION 1:10



#### **Building Regulation Sectional Detail**

#### Front & Rear Dormer Extension

1 Beech Rise Whaley Bridge High Peak SK23 7EQ

Scale - 1:100 @ A1 unless stated Drawn By - EH Date - 11.14

Rev Description

DRAWING REF: BR/BR/03

Date

PLANS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL **ENGINEERS DETAILS** 

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL MEASUREMENTS ON SITE PRIOR TO WORK COMMENCING

