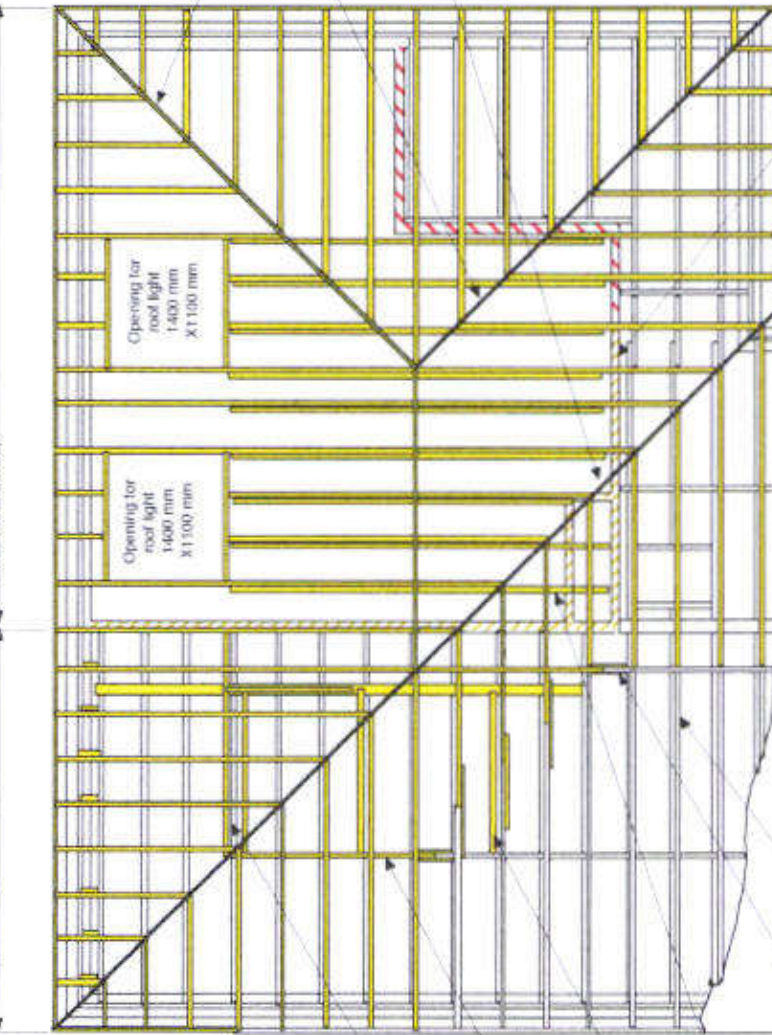


New rafters joists and joel extensions, new purlins and purlin extensions together with new purlin support struts in this area of the roof are to be of 100 mm X 50 mm sawn timber. Rafters to be fixed to wall plate using suitable angle brackets

New posts in this area of the roof are to be of 150 mm 50 mm sawn timber fixed to wall plate using suitable angle brackets. Cross beams are to be of 150 mm X37 mm prepared timber (this is to permit them to be used as an architectural feature)



View of new roof all levels of rafters
New woodwork shown Yellow

All new ridge plates, valley rafters and hip rafters to be of 200 mm X 25 mm sawn timber

Valley to have left support boards (not shown) of 12 mm thick marine plywood

New Purlin

Extended Purlin joined to existing purlin

New Purlin support strut, support struts spacing to be 1350 mm maximum

Due to the shape of the roof valley the first three cross beams will be have to rest on and be fixed to heavy duty gallow brackets fixed to the girder mounted stud walling

Extension to ridge plate to be secured with checks of the same size timber glue and nailed either side

Existing roof rafters reused where possible

Stud wall on top of universal beam wall fixed to load bearing wall using masonry bungs and to other stud wall using suitable metal angle brackets or coach bolts. Stud wall constructed of 100 mm X 50 mm sawn timber uprights spaced at 450 mm centres and secured to the 150 mm X 50 mm sawn timber roof rafters. Noggins between uprights of stud wall to be staggered and at 600 mm spacing. Voids to be filled with 100 mm thick slabs of high density foam insulation. To add structural rigidity, the roof side of stud wall to be clad with 12 mm construction plywood fixed to the timber with nails and a suitable construction adhesive. To ensure full compliance with current building regulations insulation requirements a further layer of 100 mm thick slabs of high density foam insulation is to be fixed to the plywood skin using an appropriate adhesive. The kitchen side will be covered with 12 mm plasterboard and skimmed with plaster.

PROPOSED REAR AND SIDE EXTENSION AND INTERNAL ALTERATIONS TO BUNGALOW AT 23 BERNINA AVENUE WATERLOOVILLE

Drawing No. AP23/1 Sheet 5 of 10 Sheets Issue: 1

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Scale (this sheet) 1 : -

Dimensions in Metres