

Provide new 47x147mm C16 rafters at 400mm centres alongside the existing rafters. Allow for fixing the new rafters to the existing at 800mm centres along the span using M10 bolts. Alternatively shot-fire the new rafters to the existing rafters at regular spacings.

Steel ridge beam. Rafters to be fixed to beam as detailed.

Provide ceiling timbers as necessary and suitably fix them to the new timber rafters.

Important: The Contractor is to allow for all necessary temporary propping throughout the works to suit their own methods of working and sequencing etc.

Provide new timber stud wall at 400mm centres. Bolt new rafters to new studs with 1 M10 bolt per fixing.

Provide soleplate bolted or shot-fired to top of beam

Steel floor beam. Pack out the web and fix the new floor joists to it using proprietary joist hangers – refer to detail.

Provide a 25mm gap beneath steel beams to allow for deflection of the new attic floor structure.

Provide new 47x220mm C24 attic floor joists at 400mm centres alongside the existing ceiling joists.

It will be necessary to fix the existing ceiling joists to the new floor joists to prevent the existing ceiling from sagging and the plasterboard from cracking when the existing truss diagonals are cut out. Fix all existing ceiling joists to new joists using M10 bolts at 800mm horiz centres.

Important: We recommend that the floor boarding isn't glued and screwed to the new joists nor the fixings between the new floor joists and existing ceiling ties made until the roof works have been completed. The dead load (permanent) deflection of the new floor will then occur utilising the gap provided between the underside of the new joists and the underside of the existing ceiling ties. The fixings between the new joists and the existing ceiling ties can then be made. Do not fix the new joists to the existing ceiling ties until the structural roof works are completed as this will result in dead load deflection of the new floor being transferred to the existing ceiling which could cause cracking to the existing plasterboard ceiling finish. The sequence of works stated above will ensure that the existing ceiling only has deflection resulting from imposed loads.

Allow for 20mm gap between underside of new floor joists and underside of the existing ceiling joists to allow for dead load deflection of the new structure

Important: The sequencing of the works is to be determined by the main contractor. We recommend that temporary propping of the existing ceiling be considered as it will be liable to sag when the existing truss diagonals are removed.

ORIGINAL DRAWING SIZE: A3. WORK TO FIGURED DIMENSIONS ONLY – DO NOT SCALE.
ALL WORKS MUST BE UNDERTAKEN BY A SUITABLY COMPETENT AND EXPERIENCED CONTRACTOR.
THE CONTRACTOR IS TO CHECK ALL LEVELS AND DIMENSIONS BEFORE WORK COMMENCES, AND ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO MW CONSULT LTD.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER MW CONSULT PROJECT DRAWINGS AND SPECIFICATIONS AND ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT.

CLIENT:
Mr & Mrs Morgan

PROJECT:
Proposed Attic Conversion at
73 Mill Race, Neath

DRAWING TITLE:
Typical Attic Cross Section

REV.	DESCRIPTION	DRAWN	CHECK	DATE
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Drawing Status: For Comment

DRAWN BY: MW	DESIGN BY: MW	CHECKED BY: MW	DATE: 26/05/20
SCALE: 1:20 (A3)	DRAWING No.: 20/095(04)	REVISION: -	