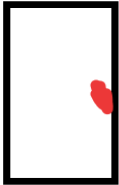
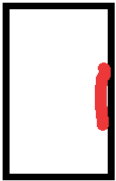
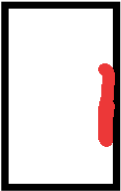
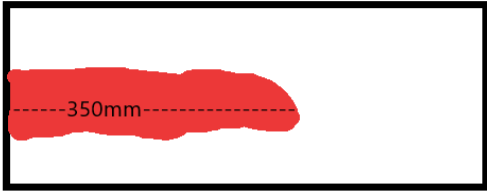
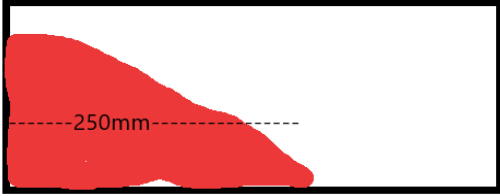
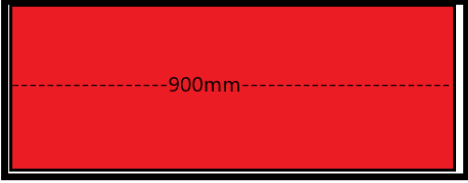
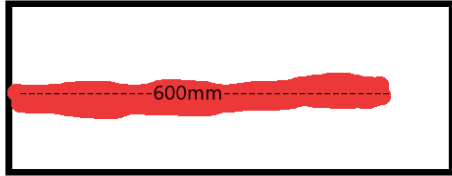
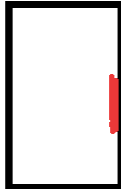
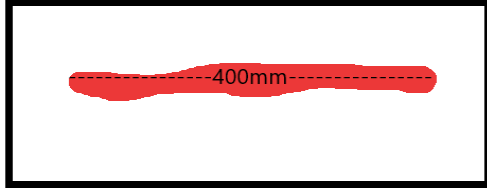
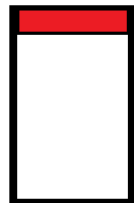
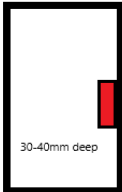


Location/Beam	Dimensions	Decay viewed from bearing side	Cross plan view	Photographs	Confirmed agreed repairs with Structural engineer comment in bold
Q/GB/1 Bearing end into external wall	95mm 270mm Bearing end Decayed section		 Cross plan view	Small pocket of wet rot 25mm deep approx. 25x25mm in section 	Recommendations Defrass the beam of all decay back to sound timber and treat with Wykamol 10.1 fungicide gel Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024
Q/GB/1 Bearing end opposite GB2	95mm 270mm Bearing end Decayed section		 Cross plan view	Superficial rot to face of gutter beam 	Recommendations Defrass the beam of all decay back to sound timber and treat with Wykamol 10.1 fungicide gel Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024
Q/GB/2 Bearing end opposite GB1	95mm 270mm Bearing end Decayed section		 Cross plan view	Wet rot to bearing end opposite GB1. Pocket of decay 150mm x300mm to depth of 25mm 	Recommendations Defrass the beam of all decay back to sound timber and treat with Wykamol 10.1 fungicide gel Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024 <i>Defrass and treat is Ok. Section is adequate for shear at affected bearing end</i>
Q/GB/3 Bearing end opposite GB2	95mm 270mm Bearing end Decayed section		 Cross plan view	Decay 2/3 depth of beam to 600mm bearing . 	Recommendations Flitch beam plate repair as per drawings and calculation provided by WMI Consulting drawing no 1179R Confirmed acceptance of repair in email dated 27-09-2024 from Buro Happold

P/VB/1 Bearing end into external wall	100mm  425mm Bearing end  Cross plan view Decayed section	Wet rot 2/3 to full depth of beam to 300mm bearing end 	Query from Buro Happold <i>external wall- the extent of decay looks like this needs an end repair due to loss of section and shear capacity</i> Recommendation Robinsons cut back the decayed ends back to sound timber with over 100mm of bearing still present with no end repair required
P/VB/1 Bearing end opposite VB4	100mm  275m Bearing end  Cross plan view Decayed section	Superficial rot to face of gutter beam 10-15mm deep to 350mm bearing 	Recommendations Defrass the beam of all decay back to sound timber and treat with Wykamol 10.1 fungicide gel Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024
P/VB4 Bearing end opposite VB6	100mm  275m Bearing end  Cross plan view Decayed section	decay 2/3 depth of the beam to approx. 250mm bearing onto truss 	Confirmed repairs/treatments in email from Buro Happold dated 27-09-2024 <i>Agree with repair loads as stated</i> Recommendations Flitch beam plate repair as per drawings and calculation provided by WML Consulting drawing no 1179R Confirmed acceptance of repair in email dated 27-09-2024
P/VB/6 Bearing end opposite VB4	100mm  275m Bearing end  Cross plan view Decayed section	Wet rot to full depth of beam to 900mm bearing 	Confirmed repairs/treatments in email from Buro Happold dated 27-09-2024 <i>Agree with repair loads as stated</i> Recommendations Flitch beam plate repair as per drawings and calculation provided by WML Consulting drawing no 1179R Confirmed acceptance of repair in email dated 27-09-2024

Location/Beam	Dimensions	Decay viewed from bearing side	Cross plan view	Photographs	Confirmed agreed repairs with Structural engineer comment in bold
P/VB/3&5 Opposite the decayed bearing ends to VB 4 and 6	100mm  275m Bearing end  Decayed section  600mm Cross plan view	Pocket of rot 25mm deep 600mm x 50mm Photo to be provided	Recommendations Defrass the beam of all decay back to sound timber and treat with Wykamol 10.1 fungicide gel Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024		
P/GB/2 Mid section	95mm  270mm Bearing end  Decayed section  400mm Cross plan view	Superficial rot to face of gutter beam 15-20 mm deep to 400mm at midsection 	Recommendations Defrass the beam of all decay back to sound timber and treat with Wykamol 10.1 fungicide gel Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024 de-frass and treat is Ok. Section is adequate for bending at midspan		
P/GB/1 Full length of beam	95mm  270mm Bearing end  Decayed section --Decay full length of beam 30-40mm top edge--  Cross plan view	Wet rot to top face the full length of beam 30 to 40mm deep 	Buro Happold The loss of 40mm from the top edge of beam means that this doesn't have adequate capacity . Requires full length like-for-like replacement w C24 Douglas Fir Recommendations Proposed treatments to be replaced with full replacement by Robinsons		
M/VB/10 Bearing end opposite VB12	95mm  270mm Bearing end  Decayed section  150mm Cross plan view	150x150mm pocket of rot to a depth of 30 to 40mm 	Recommendations Defrass the beam of all decay back to sound timber and treat with Wykamol 10.1 fungicide gel Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024 Defrass and treat is Ok. Section is adequate for shear at affected bearing end		

Location/Beam	Dimensions	Decay viewed from bearing side	Cross plan view	Photographs	Confirmed agreed repairs with Structural engineer comment in bold
M/VB/12 Bearing end opposite VB10	95mm 270mm	300mm 120mm	rot to the heath of beam 50% depth 300x120mm		Query from Buro Happold The bearing end is probably ok in shear. An alternative here is probably to remove the decayed material and infill with a timber packer Recommendations Robinsons substituted 1/2 lap repair for splicing in a new section after removal of decayed material
M/VB/11	100mm 275mm	Full beam length and depth of decay 30mm 50-60mm 50mm 20mm 15mm 10mm 40mm	Wet rot to varying depth the full length of beam		Recommendations Proposed treatments to be replaced with full replacement by Robinsons Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024 Agree with replacement
M/VB/13	100mm 430mm	decay full length of beam to varying depth 20-50mm 30mm Plus 50mm 20mm 50mm	Wet rot to varying depth the full length of beam		Recommendations Proposed treatments to be replaced with full replacement by Robinsons Confirmed repairs/treatments in email from Buro Happold dated 4-09-2024 Agree with replacement

Notched purlin between gridline P&Q	Further to the removal of the former roof access between Gridline locations P . and Q, this has given a better understanding of how the roof was constructed This is the location of the notched purlin (see attached drawing and photo) . This section of roof was previously modified to accommodate the roof access. To provide the access, the original purlin (timber no 3) was cut at midspan onto a new trimmer (timber no 2) , a new bearer was installed which appears as a purlin from below (timber no 1) to support the trimmer and cut purlin. The new bearer (no1) was notched over the metal tie which was inset and already bolt plated to the upper purlin and lower purlin (no3) Half of the GB4 is missing after the installation of the roof access. A new section will be installed supported off the truss and steel beam	Recommnedations  Beam to remain in situ 1 2 3 Remove original purlin and save timber Remove trimmer Install new purlin C24 full width of bay	Further to meeting with Buro Happold verbal agreement was made on the proposed works. The SE required additional post supports below the the existing GB4 and the new section of GB4 Recommendations Remove the former roof access roof and beam no 1. Install new purlin to match existing section using C24 timber, fixed to outer wall with steel brackets. Infix the metal tie to the new and existing purlins. Allow to replace 1/2 of the missing gutter beam with C24 100x275mm treated timber with additional post support provided by C16 50x150mm timber coached screws to the gutter beam. Cover the new roof structure with 60x120mm common rafters
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