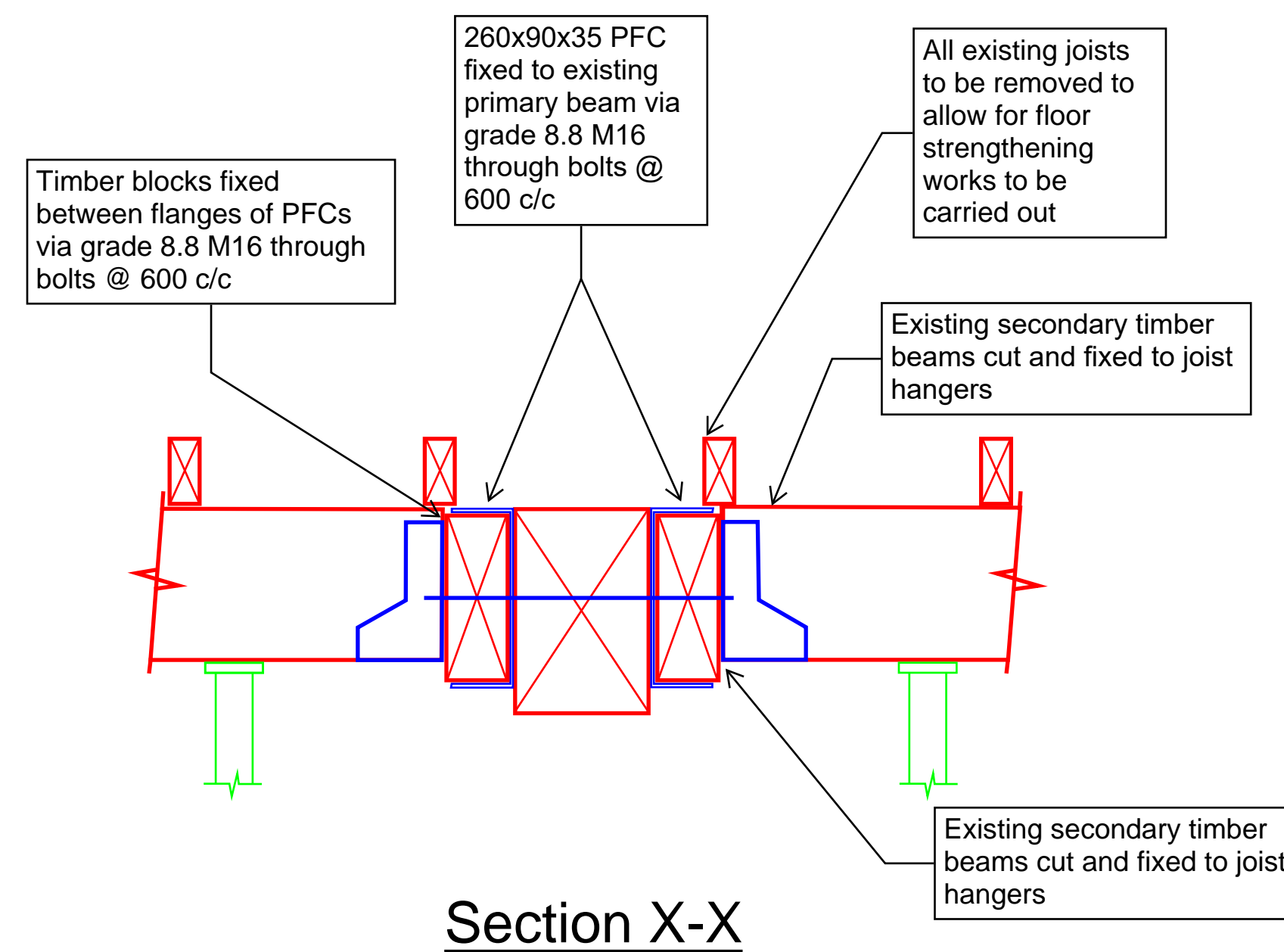


Typical Floor Strengthening Requirements - First and Second Floor Structure (i.e. Ground Floor Ceiling and First Floor Ceiling)

Referenced File: BPL-HYD-XX-01-DR-S-1000003 (Hydrock Structures - First Floor Layout)





Sequence of Structural Works For Installing the PFCs and Cutting the Existing Timber Beams

- 1.Remove all floorboards. Where floorboards are modern, they can be replaced. Original Georgian floorboards should be retained in the same room, but do not need to be put back the exact same place within the room.
- 2.Remove all joists
- 3.Temporarily prop each secondary beam 300mm from end and to be back propped to lower ground floor level
- 4.Starting at Level 01 ceiling, cut secondary beams 100mm from the end to allow installation of 260x90 PFC members
- 5.Cut pocket in wall adjacent to primary timber section to take the PFC section
- 6.Install 500mm long section of PFC at each end
- 7.Install middle section of PFC and connect splice connections
- 8.Fix timber blocks between PFC toes via through bolts
- 9.Connect joist hangers to timber blocks to take secondary timber beams
- 10.Secure existing secondary beams within joist hangers
- 11.Install additional secondary beams to 390mm centres/centrally between existing beams. (highlighted green)
- 12.Remove temporary propping sequentially.

Note: This sketch represents typical floor strengthening works required to achieve 60 minutes fire protection to the First and Second Floor structure. For simplicity the layout shows floor strengthening at First Floor Level in No. 4. The principles shown can be applied to No 4. No.5 and No.6 at First and Second Floor level.

Note: This design is based on top + sides of joists and timber beams being fire protected for 60 mins to the Architects detail

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Project Title: 4-6 Bedford Place			
Sketch Title: Floor Strengthening Works Allowing for 60mins Fire			
Status: <div>INFORMATION</div>			
Hydrock Job No: 24973			
Drawn M.Larkworthy	Scale NTS	Date 02.08.23	
Sketch Number BPL-HYD-XX-XX-SK-S-230802		Revision P03	