

is also possible these pockets have no tbeen infilled and are still present - to be confirmed when the existing floor joists are removed. If this is the case, the new joists should be built into the pockets to replicate the original detail. Otherwise, joist ends are to eb supported on face-fixed joist hangers on a continuous timber wall plate (50x175min), fixed to wall with M12 Hilti HAS-U rods and HIT-HY-170 injection mortar at max. 400mm c/c along the plate. Anchors to be positioned within middle third of the timber plate's depth, and penetrate min. 80mm, max 120mm into masonry.

1st Floor Plan

## GENERAL NOTES: Drawing key: Repair/strengtheing specification: All Studio Strukt drawings are to be read in conjunction with the relevant Architect's, Engineer's and Specialist Supplier's drawings and specifications. Timber: Note 1.1 Strengthen connection between wall plate and brickwork 2. Do not scale from any Studio Strukt drawings. Use behind, remediate poorly installed joist hangers : stated dimensions only. All dimensions to be verified All existing joist and rafter types listed below are modern, installed during recent works: 1. Install additional resin anchors between the on site by contractor. existing, to ensure max 400mm spacing between Fire protection, thermal and sound insulation, and anchors along the wall plate: M12 Hilti HAS-U rods $\begin{array}{ccc} A \\ & \\ \hline \end{array}$ Existing 175x75 C24 joists at 400-430mm c/c waterproofing are outside of Studio Strukt's scope. and HIT-HY-170 injection mortar. Anchors to be Any such elements are shown indicatively only. positioned within middle third of the timber plate's depth, and penetrate min. 80mm, max 120mm into $abla^{-B}_{\neg}$ Existing 150x75 C24 joists at 400-430mm c/c The Contractor is responsible for ensuring the Replace all existing joist hangers along the wall plate with face-fixed hangers (Expamet stability of all structures within and adjacent to the site at all times during the contract, and is to design and C = C Existing 100x75 C24 joists at 400mm c/c provide all temporary works required. Maxi-speedy or similar). All work subject to Building Control approval, Party Proposed timber structures: Wall agreement, and Listed Building consent. Note 1.2 Provide fixings between studwork walls and external Formation levels of all foundations to be approved on masonry walls (the purpose is to ensure the two walls site by Building Control inspector. Existing trimmer (single joist) to be strengthened: provide lateral restraint to each other): Add another joist of the same section size on the side All Studio Strukt plans are drawn 'looking down' and of the existing, fix together with: 1. Ensure the last stud is placed directly against the show structure within and immediately below the - M8 bolts at 400mm c/c for joists less than inside face of brickwork. floor/level the plan refers to. For example, a 1st floor 125mm deep 2. Fix the stud to the brick wall with M8 Hilti HAS-U plan shows 1st floor joists, beams within and under - M12 bolts at 400mm c/c for joists deeper than rods and HIT-HY-170 injection mortar, at 600mm 1st floor, and lintels above openings at ground floor max vertical c/c. Anchors to be centred on the stud The added joist to be of the same length as existing, to and penetrate 80-120mm into masonry. share the bearing/end fixing. Where existing joist is supported on a joist hanger, a new (double-width) hanger will be required. Note 1.3 Timber plates buried in external walls are in poor condition Unless noted otherwise, all existing steelwork, TT2 2No. 175x63 C24 joists bolted together with M12 bolts concrete and timber structures shown on this drawing due to historic or continued water ingress, affecting integrity at 400mm c/c max. are non-historic elements installed during the recent of the walls, and providing inadequate bearing for joists. construction works. 3No. 175x75 C24 joists bolted together with M12 bolts Remove all timber plates embedded in external walls and infill at 400mm c/c max. the gaps with brickwork: All historic timber, steel, and concrete members are 1. Existing timber plates (supporting the joist ends and 175x63 C24 joists (min. size) at 400mm c/c Unless noted otherwise, all masonry structures are higher within the walls, whether historic or installed assumed to be historic. TJ2 150x50 C24 joists (min. size) at 400mm c/c recently), are to be carefully cut out, in segments no longer than 750mm at a time. Joists bearing on the All existing member sizes marked with (\*) are based on segment being worked on to be temporarily supported. 2. Infill the void with bricks to match existing, with lime previous engineer's drawings and have not been verified on site. All other existing member sizes are mortar joints - mortar to be packed in tightly to ensure based on on own site measurements. good bond with existing masonry New brickwork - all brickwork infills to be fully toothed and bonded with existing brickwork Note 1.4 Recently installed SHS post head connection does not provide sufficient bearing for the supported historic steel Existing masonry beams. Beams significantly overhang the SHS profile and capping plate. Existing non-load-bearing walls (historic or recently installed, as noted) 1. Site weld vertical stiffeners (ribs) between the sides of the SHS and underside of supported beams. Assume Non-load-bearing timber studwork walls 150mm high plates, extending to the outer edges of installed during recent works both existing beams. 2. NOTE: Full details will be provided by Studio Strukt for ⊠ Existing (recently installed) load-bearing construction. timber studwork wall, comprising 95x70 C24 studs at 450mm c/c approx; to be retained Existing (recently installed) load-bearing timber studwork wall, comprising 42x95 C24 studs at 400mm c/c approx; to be retained New load-bearing timber studwork wall, comprising 50x100 C24 studs at 400mm c/c max, and 100x50 bottom and top plates. Double studs to be used at all wall corners and ends. Solid timber noggins to be installed between all studs, at 900mm vertical c/c max. Existing structures: Ex B1.1 to be removed Ex B1.2 203x203x46UC Ex B1.3 (H) Existing steel beam - 150 deep approx Ex B1.4 to be removed Lintels: L1 100d x 100w precast lintels (Naylor S4 or similar) side by side - number to suit wall thickness, 2No. min. Steelwork: B1.1 152x152x37UC B1.2 152x152x37UC B1.3 152x152x23UC B1.4 152x152x23UC B1.5 152x152x37UC B1.6 152x152x37UC Padstones: All padstones to be cast in-situ or precast units of the stated dimensions (all in mm). L = length along the wall W = width - penetration into wall H = height (down the wall from underside of steel member) Existing padstones, to be retained P1 225L x 100W x 150H 500L x 100W x 300H 440L x 215W x 300H Revised as clouded, issued for submission to P4 650L x 100W x 300H Issued for comments/coordination 650L x 100W x 450H v Description P6 330L x 100W x 225H studio strukt Other / general: Existing foundation under / structure under studiostrukt.co.uk — — — Existing beams, trimmers, or lintels, to be retained 078 508 75 271 retained - material/function and details as noted on bart@studiostrukt.co.uk plans. For further details (including whether the members are historic or installed recently) refer to drawings series 11-15 **PRELIMINARY** Proposed beams, trimmers, or lintels Not for construction Structure to be demolished 1:50 @ A1 | 15/11/2024 Restraint strap to tie external wall to floors where joists run parallel to wall. 9 The Mount 1.2m long 'heavy duty' proprietary galvanised steel London NW3 6SZ restraint strap (4mm thick, 28mm wide) fixed across 3No. joists with noggins in between. Can be fixed to top or the underside of joists, and joists can be noteched locally). End of strap to be bent and cast into a type P6 padstone, Proposed structural works: cast in-situ into a pocket cut on the inside of the wall. 1st Floor Plan

Drawing No. 24-034/23

Α

Walls: