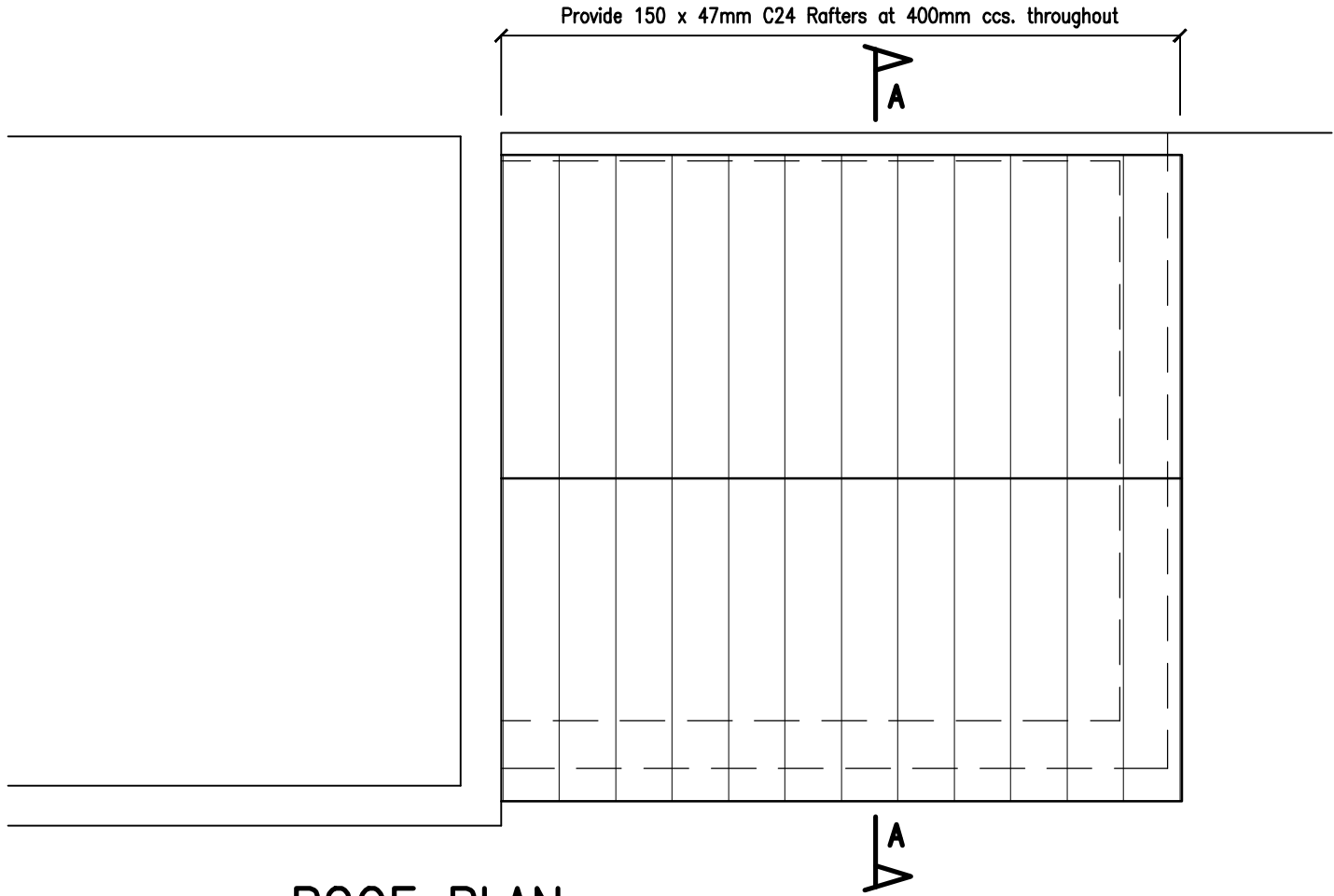


FOUNDATION PLAN

Scale 1:50

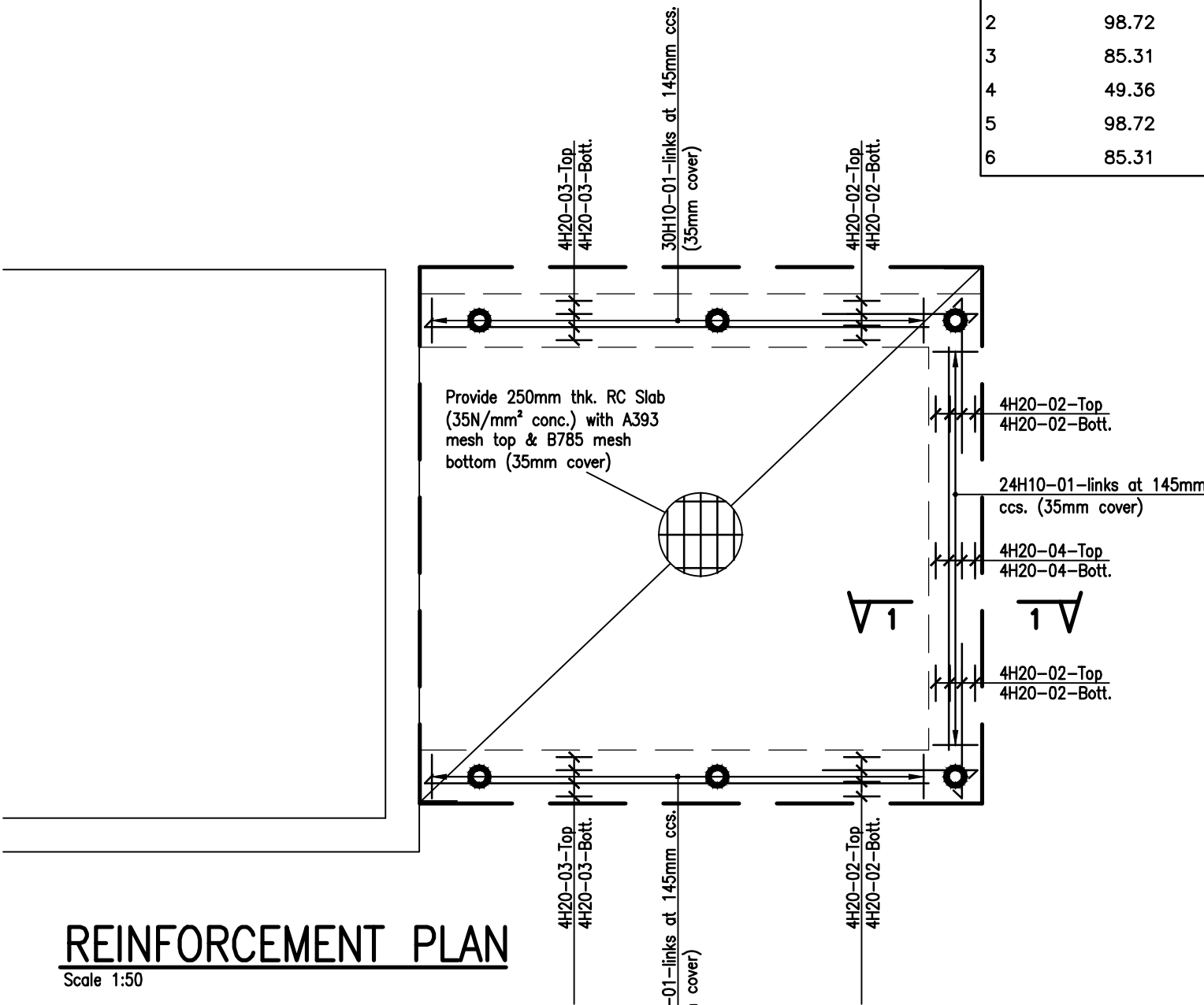
PILE LOADINGS (Unfactored)

PILE NO	DL(kN)	LL(kN)	TOTAL(kN)
1	49.36	4.49	53.85
2	98.72	8.97	107.69
3	85.31	6.54	91.85
4	49.36	4.49	53.85
5	98.72	8.97	107.69
6	85.31	6.54	91.85



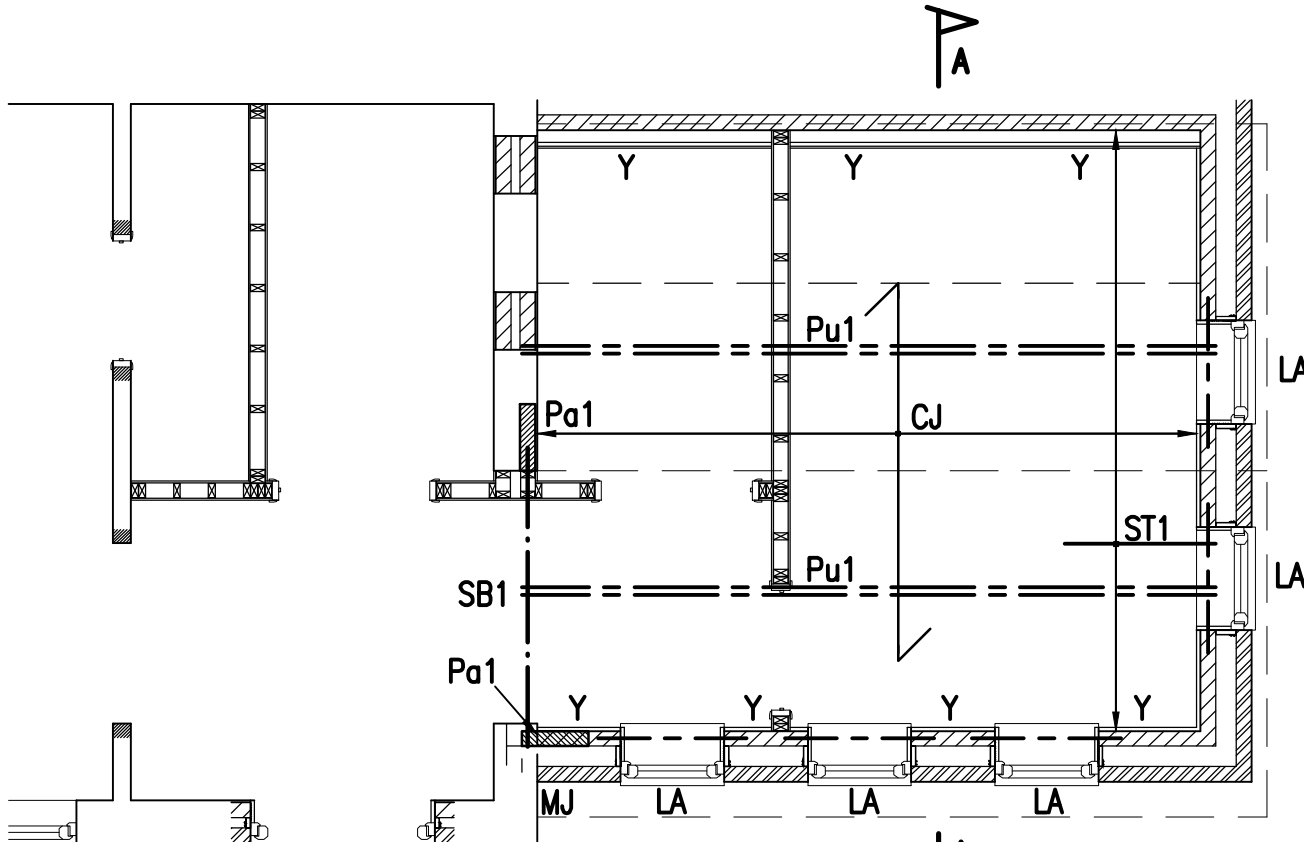
ROOF PLAN

Scale 1:50



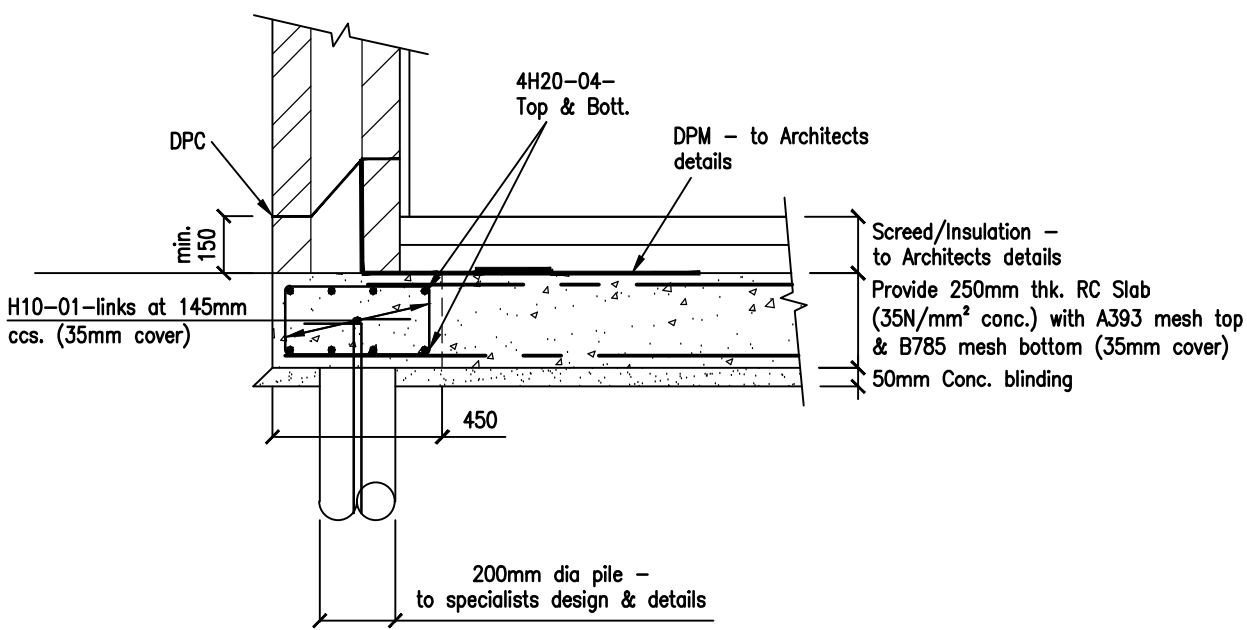
REINFORCEMENT PLAN

Scale 1:50



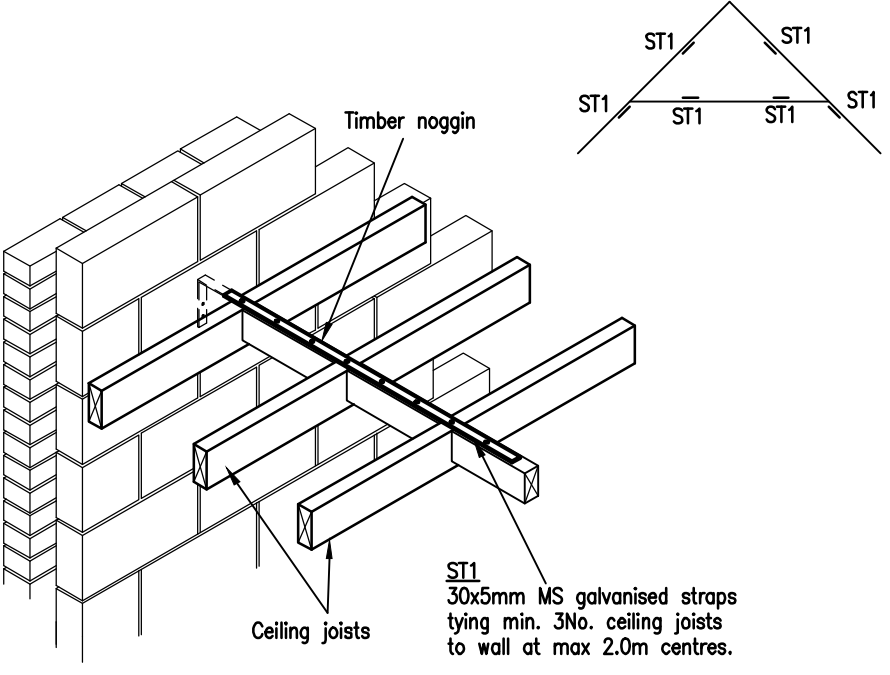
GROUND FLOOR PLAN

Scale 1:50



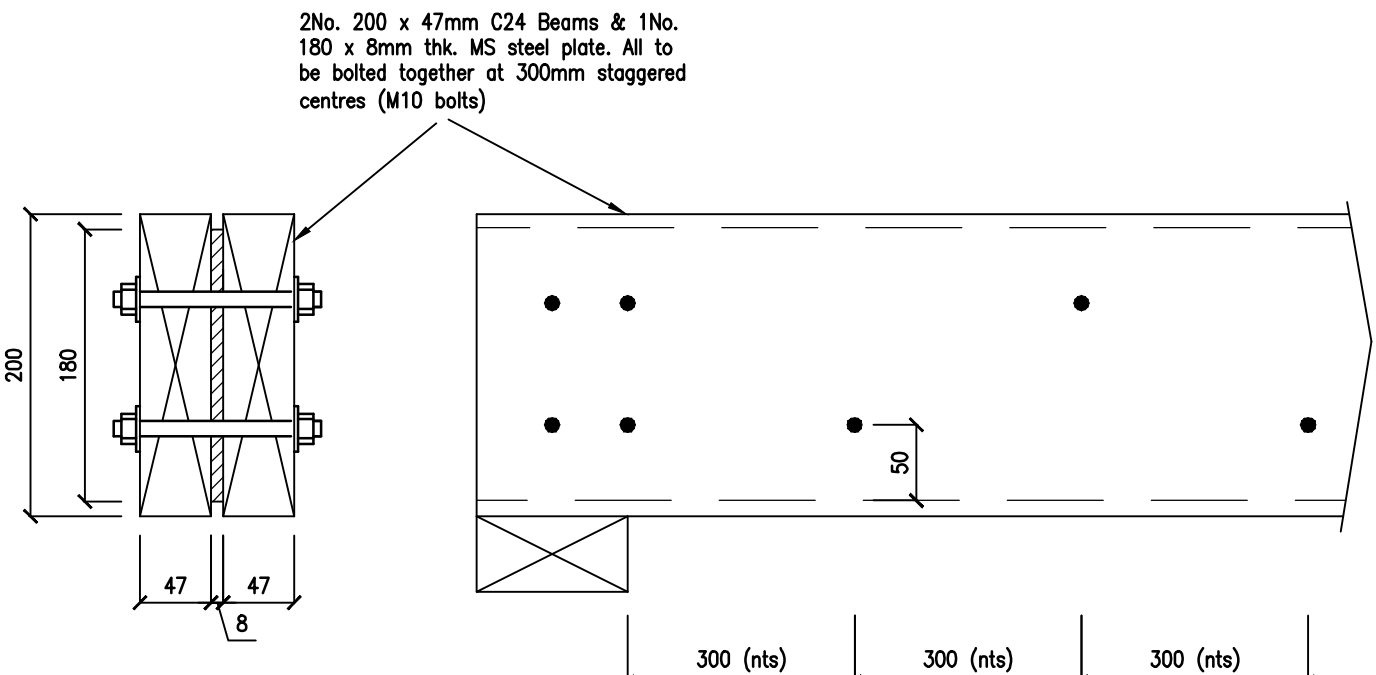
SECTION 1-1

Scale 1:20



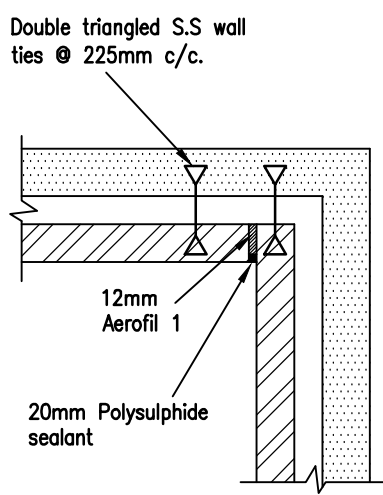
TYPICAL 'ST1' DETAILS

NTS



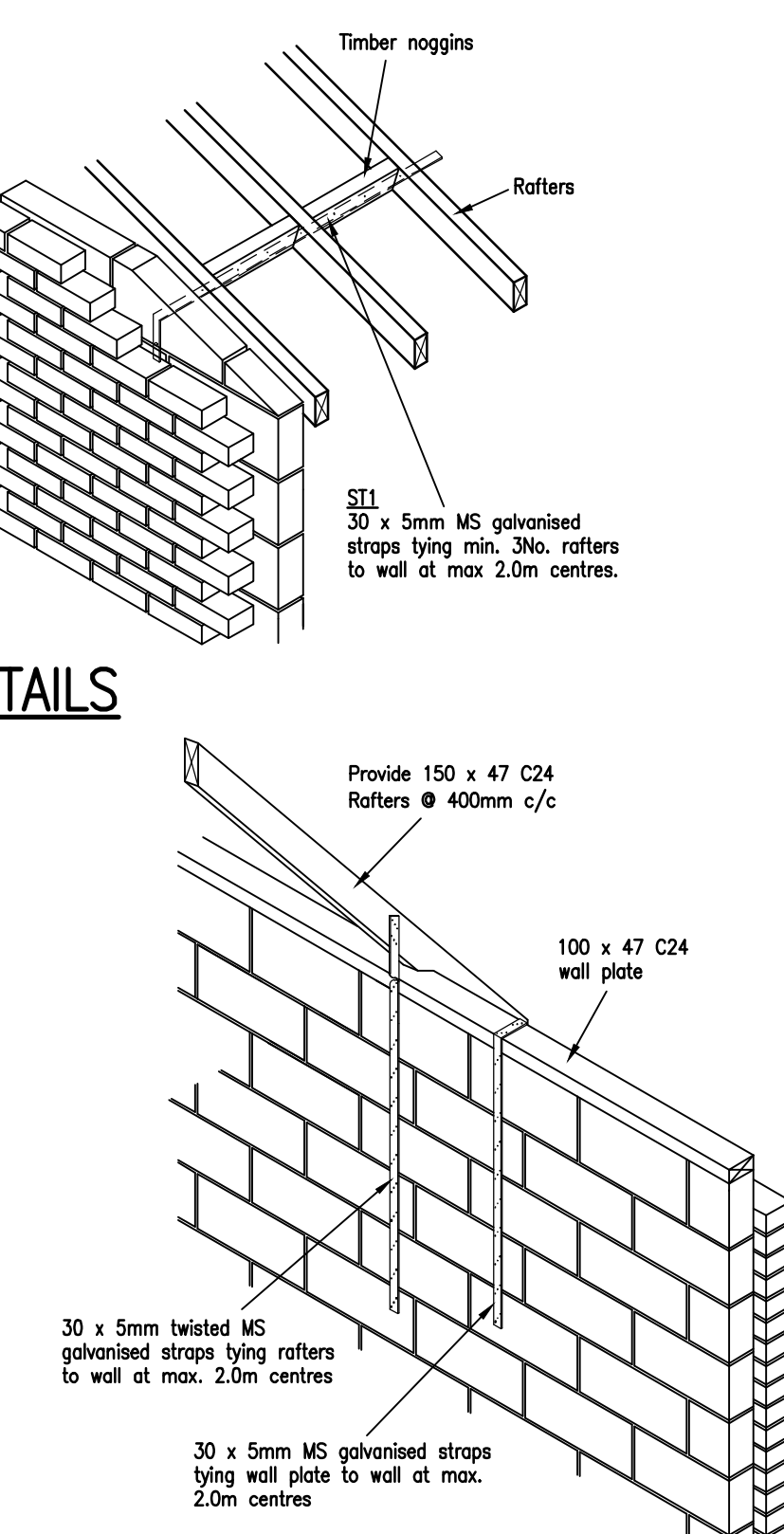
TYPICAL FLITCH BEAM DETAIL

Scale 1:5



TYPICAL MOVEMENT JOINT

Scale 1:20



TYPICAL 'Y' DETAIL

NTS

GENERAL NOTES

- This drawing to be read in conjunction with all relevant Architects and Engineers drawings.
- Prior to commencing work Contractor is to obtain conditional approval from Building Control that the proposed works conform with the current Building Regulations and HSE Regulations.
- All materials and workmanship to be in accordance with relevant British Standards, NHBC Guidelines (or equivalent) and recognised codes of practice.
- For details of levels, setting out, damp proofing, fire & corrosion protection and finishes refer to Architects drawings.
- The contractor is responsible for the accuracy of all dimensions and the setting out. **DO NOT SCALE OFF THIS DRAWING.**
- All dimensions are in millimetres unless noted otherwise.
- The contractor is responsible for erection, maintenance and stability of all temporary supports.
- The Contractor is to obtain approval from Building Control with respect to the adequacy of the existing foundations & walls, floors and roofs etc.
- All propriety materials to be in accordance with manufacturers specifications and to Engineers approval.
- Where appropriate Contractor to enter into a Party Wall Award.
- Existing structure to be investigated to determine precise works to be undertaken prior to carrying out work, fabrication & supply of structural beams.
- When carrying out structural works and alterations to existing buildings there could be movement or cracking to the building during construction. This practice is not liable for repairs to any existing defects or repairs relating to the construction works.
- Contractor to ensure steel lintels to be propped during construction to manufacturers recommendations.
- All steel beam sections to be pre-painted with two coats of red oxide. All site welds to be painted with two coats of red oxide. All treatment, painting and galvanising to structural steelwork to be agreed by Architect & client.
- All steel beam sections to be bolted down to padstones.
- All steel to steel connections to be designed & detailed by steelwork contractor.

CONCRETE NOTES

- Concrete to be grade C35 to BS 5328 made using ordinary Portland cement with a minimum content of 300 kg/m³.
- All concrete should be fully compacted. All concrete surface shall be protected from any loading, freezing or disturbance for at least 7 days.
- Cover to reinforcement to be min 35mm to all sides. Min Mesh lap length = 450mm.
- All reinforcement to be Grade 460, type 2 deformed bar to BS4449 cut and bent in accordance with BS 4446 and the bending schedules. All reinforcement should be rigid supported in their correct position using approved tying wire spacers & chairs.
- All dirt, woodshaving & sawdust, leaves, loose tying wire and other foreign matter to be removed before concreting.
- No reinforcement to be modified without written approval of the Engineer.

KEY

REF SPEC

CJ	Provide min. 125 x 47mm C24 Ceiling Joists bolted to rafters at 400mm ccs.
LA	Provide Catnic CG130/100 Lintel (or similar approved)
MJ	Denotes location of Movement Joint, refer to typical detail
Pa1	440 x 100 x 215 dp concrete padstone
Pu1	Provide Timber Flitch Beam Purlin
SB1	Provide 178 x 102 x 19 UB in conjunction with existing lintel
ST1	Provide 1.2m; 30 x 5mm MS galv. straps tying min 3No rafter/ceiling joists to wall Ø Max 2.0m c/c. Refer to typical detail.
Y	Provide 1.2m; 30 x 5mm MS galv. straps tying wall plate/rafters to wall Ø 1.5m c/c. Refer to typical detail.

PILING NOTES

- Piles to be design by Specialist Sub-Contractor. Maximum permitted deviation of pile centre from centre point indicated on this drawing shall be 75mm.
- The Principal Contractor is to ensure a firm and level surface over the building area prior to commencement of piling operations. The Piling Contractor is to set out the pile locations and the Principal Contractor is to check the setting out.
- The Piling Contractor is to investigate any difficulties caused by the following: a) Site access, including from main through roads, b) Overhead cables.
- All Piling work is to comply with the I.C.E. 'Specification for Piling and Embedded Retaining Walls' and all relevant British Standards.
- Main and Piling Contractor to determine ground conditions and submit pile design, concrete mix and reinforcement for approval to Building Control and/or NHBC.
- Main and/or Piling Contractor to photograph adjacent building and adequately protect walls to ensure there is no excessive vibration, or movement to the building, ground strata & foundations prior to commencement of work.
- If necessary ground to be pre drilled and piles slip sealed.
- On completion Piling Contractor to provide a guarantee for piling works.

WALLING NOTES

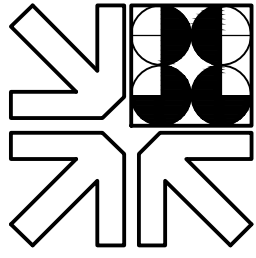
- Materials, components and workmanship to comply with the relevant clauses of BS 5628 Part 3 : 1985.
- Mortar mix to be 1:1:5 (Cement : Lime : Sand) or 1:6 (Cement: Sand with Plasticiser). Plasticisers should comply with the requirements of BS 4887 and be approved by the Engineer prior to use on site. Frost inhibitors or any other additives should not be used without the prior permission of the Engineer.
- All wall ties are to be austenitic Stainless Steel complying with BS1243 & BS 1449 Part 2: 1975. Spacing of wall ties to be at 900mm c/c horiz. & 450mm vert. (staggered), & at 225mm c/c around all openings.
- Head restraint straps are to be provided to non load block walls, as required and to conform with Building Regulations and relevant codes of practice.
- Blockwork strengths to comply with the minimum requirements indicated on the floor plans.

ROOFING NOTES

- All fixings, nails, etc to be galvanised.
- All loose timber to be C16 grade unless noted otherwise.
- Wall plates to be bolted to top face of masonry wall at 1.2m ccs.
- Location of Holding Down Straps shown thus: 'Y' on plan, Refer to Detail.
- ST1 & ST2 denotes 1200mm long; 30 x 5mm Galvanised M.S horizontal restraint straps, Refer to Detail.
- All timber to timber bolted connections to consist of M12 bolts, washers & double sided toothplate connectors.
- All timbers connected to ridge beam/hips, valleys etc. to be securely and mechanically fixed together.

Contractor is to ensure that existing structure is properly and adequately supported prior to the commencement of works

TENDER DRG.

A	Redrawn to include full structural details	G.B.	05/02/19
No.	Description	By	Date
Revisions			
B.E. WILLIS PARTNERSHIP LTD. Consulting Civil and Structural Engineers Wessex House St Leonards Road, Charmminster, Bournemouth Dorset BH8 9QS Telephone: 01202 290212 Fax: 01202 299857 E-Mail : design@bewillis.com			
			
Project:		WOODHOUSE GARDENS PAVILION BLANDFORD FORUM DORSET	
Title:		STRUCTURAL SCHEME DETAILS	
DRAWN	G. BROWN	Drq. No. 2017.883.01 A	
DATE	FEB. 2019		
SCALE	AS SHOWN @ A1		