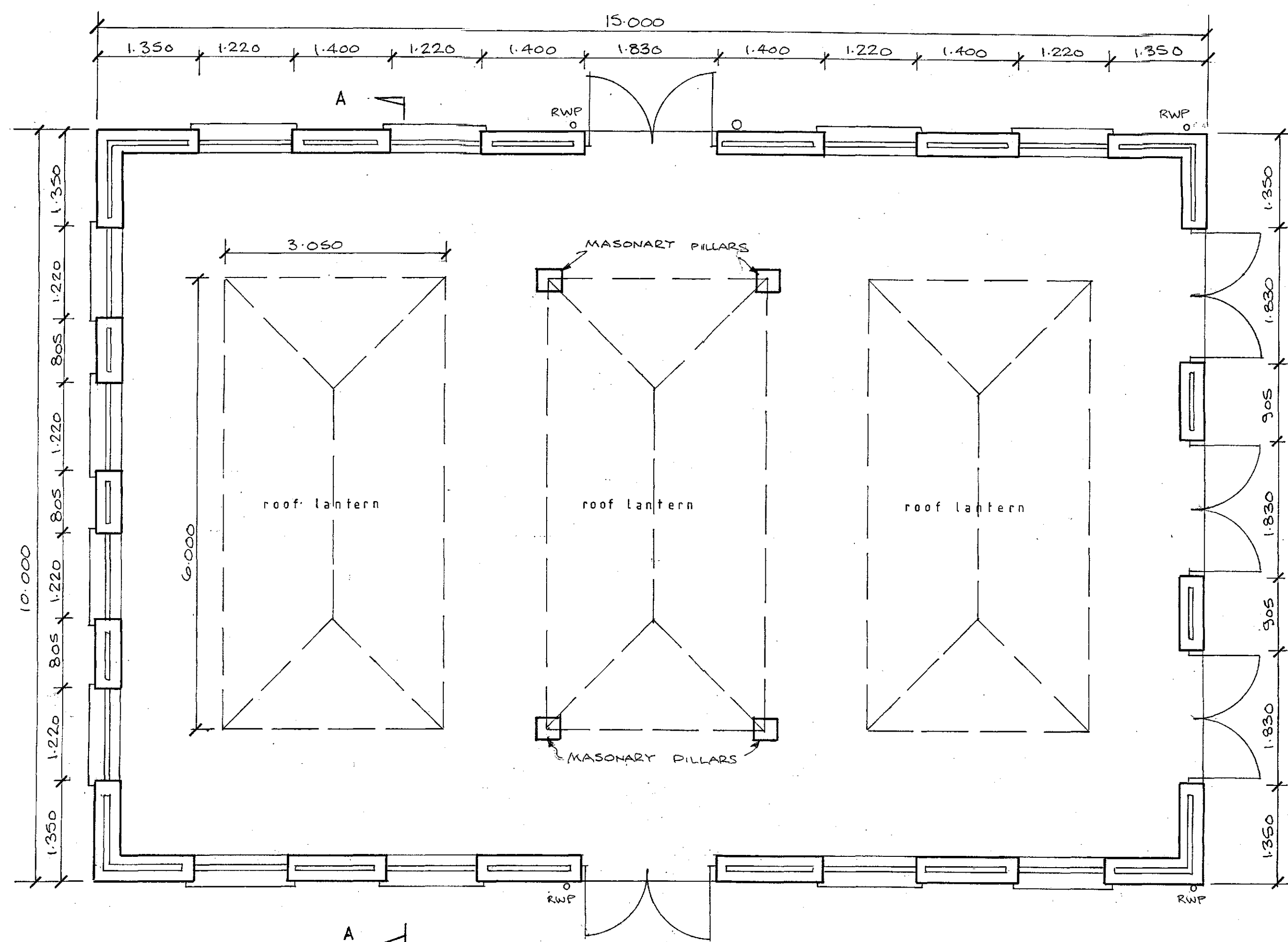
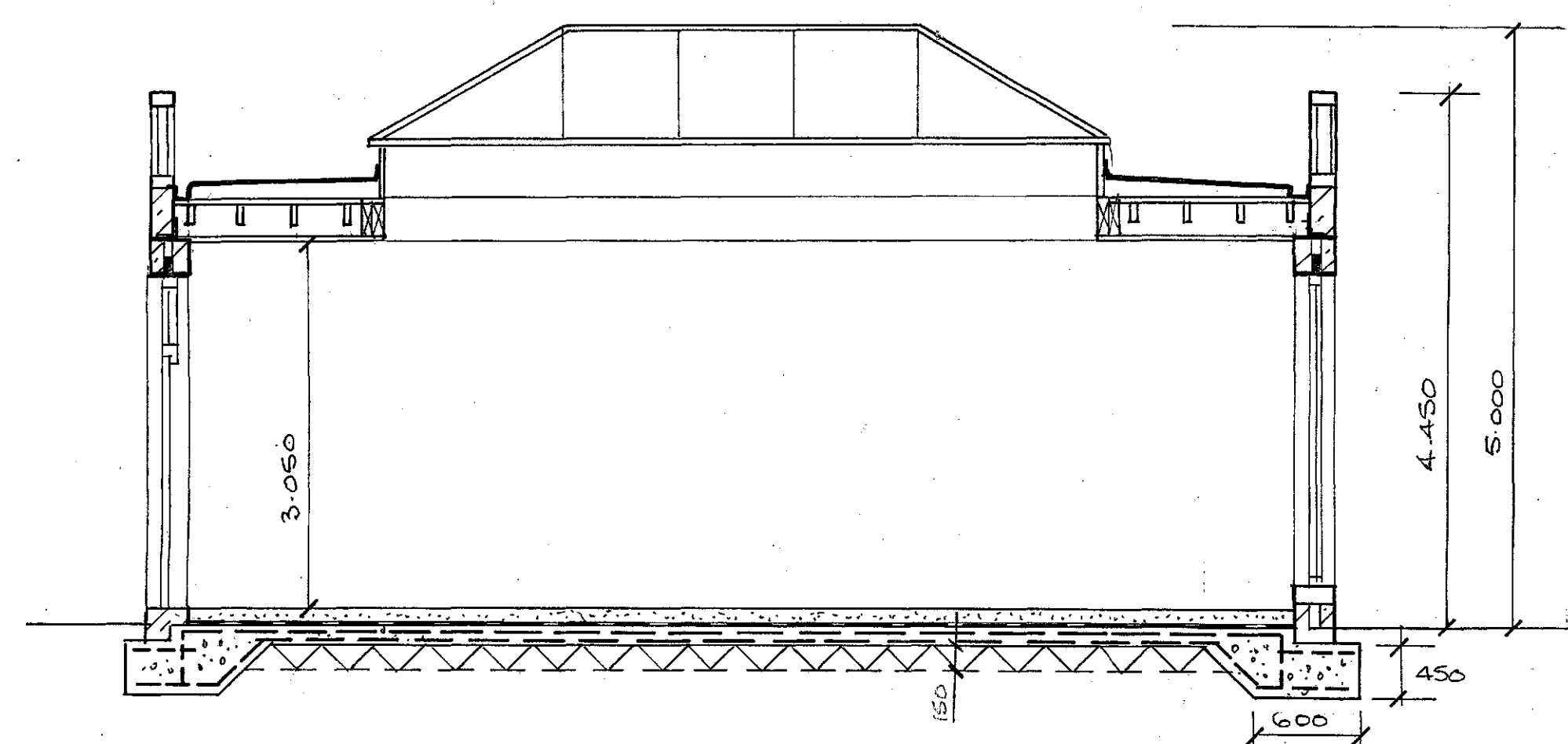
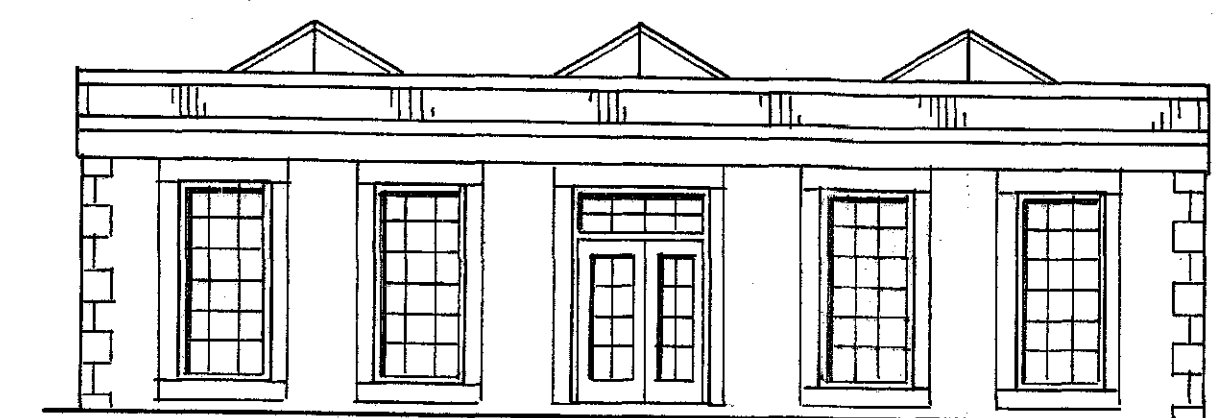




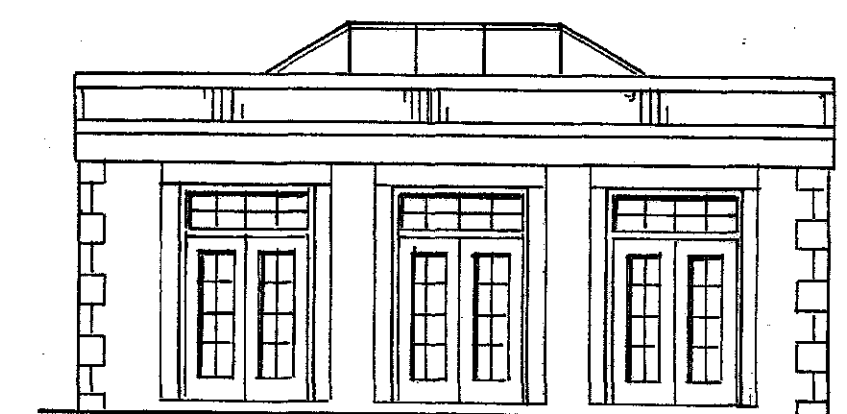
PLAN



SECTION A-A



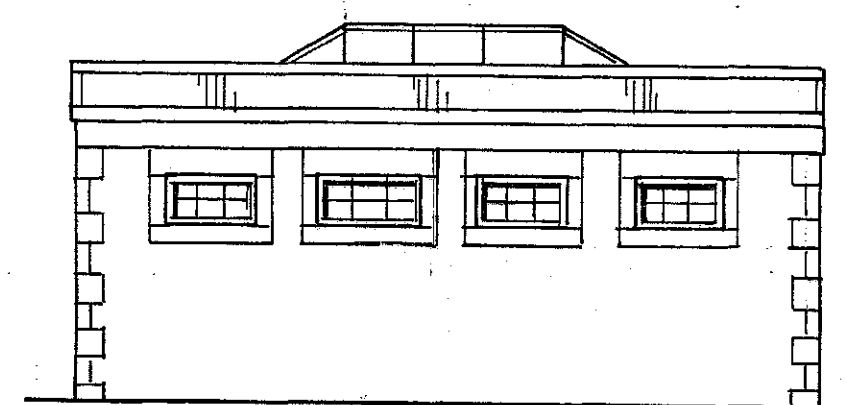
SOUTH ELEVATION



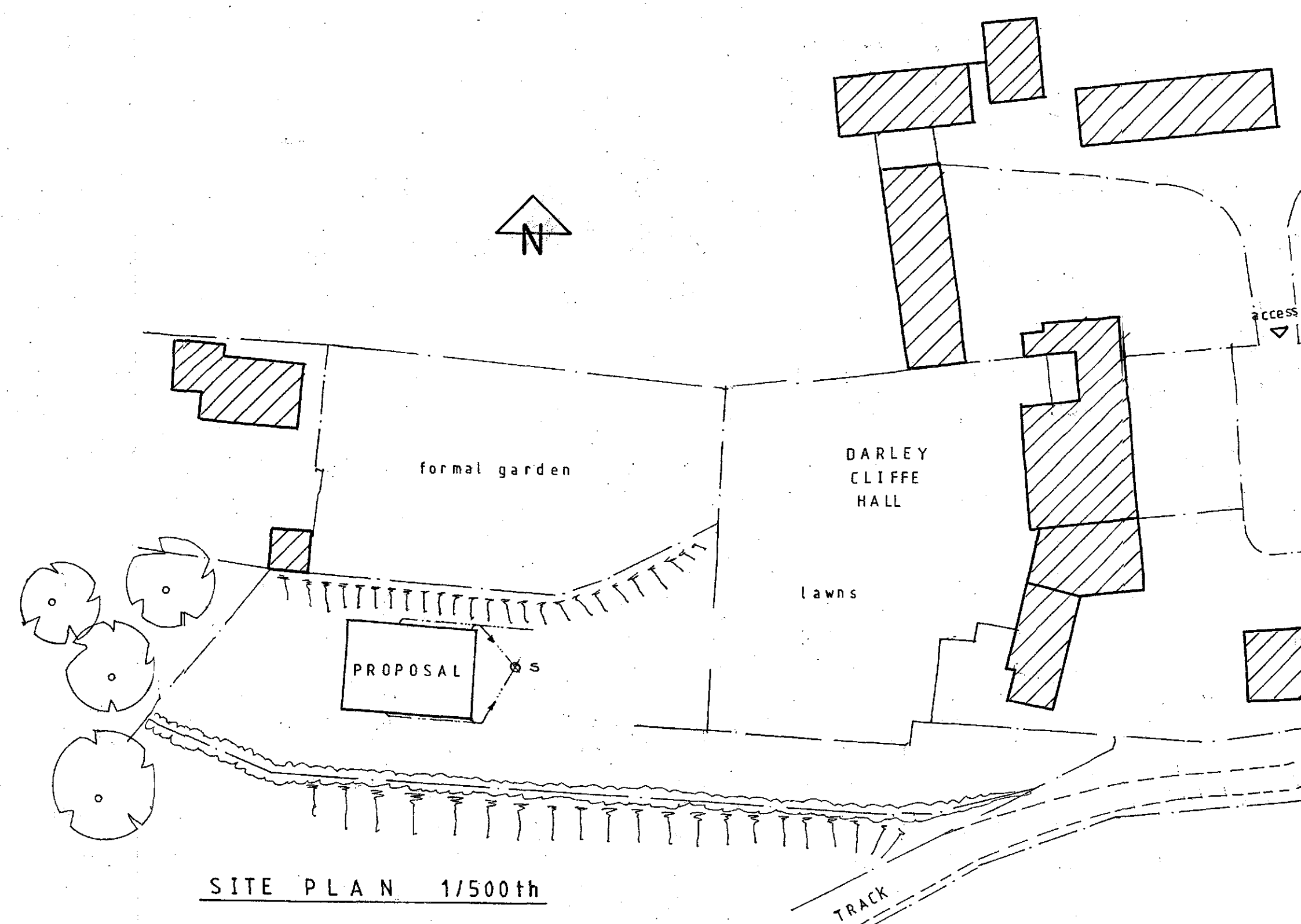
EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION



SITE PLAN 1/500th

ROOF: Polyroof 185 GRP roofing system consisting of PolyBase and Polymat 450 4 base board and Polyroof 185C Flexi-Resin top coat in Lead Green on 18mm thick external grade plywood boards; Polyroof GRP right angle trims to edges of roof lanterns and to box gutters fixed in accordance with manufacturer's instructions; proprietary manufacture 450 x 140 glued laminated (Glulam) timber frame in Strength Class C24 timber (frame designed in accordance with BS 5268:Part 2:1996 by manufacturer and calculations provided for approval of Local Building Inspector 28 days before installation); 170 x 38 joists in Strength Class C16 timber at 450 centres (max span 3,000) hung off Glulam frame using Simpson Strong Tie SAIL-SAIL Internal Flange Face Fix Hanger (or similar approved); frame to be built into walls both ends; roof restrained laterally using 30 x 5mm galvanised mild steel straps nailed across first three joists at maximum 1800 centres; 100 to 0 tilting filets to give a minimum fall of 1 in 50; 10mm foil backed plasterboard ceiling with 5mm plaster skim finish; box gutters located behind parapet to roof formed in external grade plywood with Polyroof lining as described above, min 1 in 60 falls to 63mm cast iron downpipes to new rainwater gullies

Timber roof lanterns to be designed and installed by specialist contractor in Utile/Brazilian cedar painted satin white; pitch of lantern 30 degrees with 400mm high sidelights

WALLS: 125 thick external leaf in coursed natural sandstone with ashlar quoins, lintels, mullions and cills to match Darley Cliffe Hall; 100 cavity and 140 thickness of 3.6 N/mm² standard grade block inner leaf with 5mm plaster skim finish; wall ties 750 horizontally, 450 vertically, and 225 vertically at openings; cavities closed at reveals, cills and eaves; cavity closers at openings fixed in accordance with manufacturer's instructions; wall below ground level to be in 3.6 N/mm² trench blocks; Catnic Copen Back lintels Type CH110/125 to openings with min 150 end bearing; tray dpc over lintels; dpc to be min 150 above adjacent ground level

225 thick natural sandstone parapet walls terminating in 600 high sandstone spindles and coping stones

Walls built off reinforced concrete raft foundation laid on 300 minimum depth of well-watered and compacted graded limestone; 150 thick raft in C40/20 concrete with two layers of A142 mesh, one top and one in bottom; raft thickened up to 600 x 450 at edges with two layers of type B503 steel mesh reinforcement; reinforcement to have minimum 40 cover and sheets to be lapped minimum 225 and tied together with 1.6mm wire binding; Calculation for raft foundation to be provided to Local Building Inspector for approval minimum 28 days before installation

340 x 340 masonry pillars in orangery adjacent to central roof lantern built off raft foundation and covered with 15mm plaster finish

VENTILATION: New Georgian windows to be white painted cedar with toughened safety glass complying with BS6208:1981 to French windows and all glazing between finished floor level and 800 high

DRAINAGE: Box gutters to discharge to 63 downpipes to new rainwater gullies to soakaway situated min 5,000 from any structure; percolation test carried out to satisfaction of Local Building Inspector to prove suitability of ground and to allow soakaway size to be determined; new drain connections made using 100 diameter clay drainage pipes and fittings to BS EN295-1 with push fit flexible joints laid to a minimum gradient of 1 in 60

ELECTRICS: All electrical work required to meet the requirements of Part P (Electrical Safety) will be designed, installed and tested by a person competent to do so or an installer not registered with a Part P Competent Person self-certification scheme but qualified to complete a BS 7671 Installation Certificate

PROPOSED ORANGERY at DARLEY CLIFFE HALL, off KINGWELL ROAD, WORSBROUGH, BARNLEY

SCALES: 1/50th and 1/100th at A1

(Do Not Scale)

