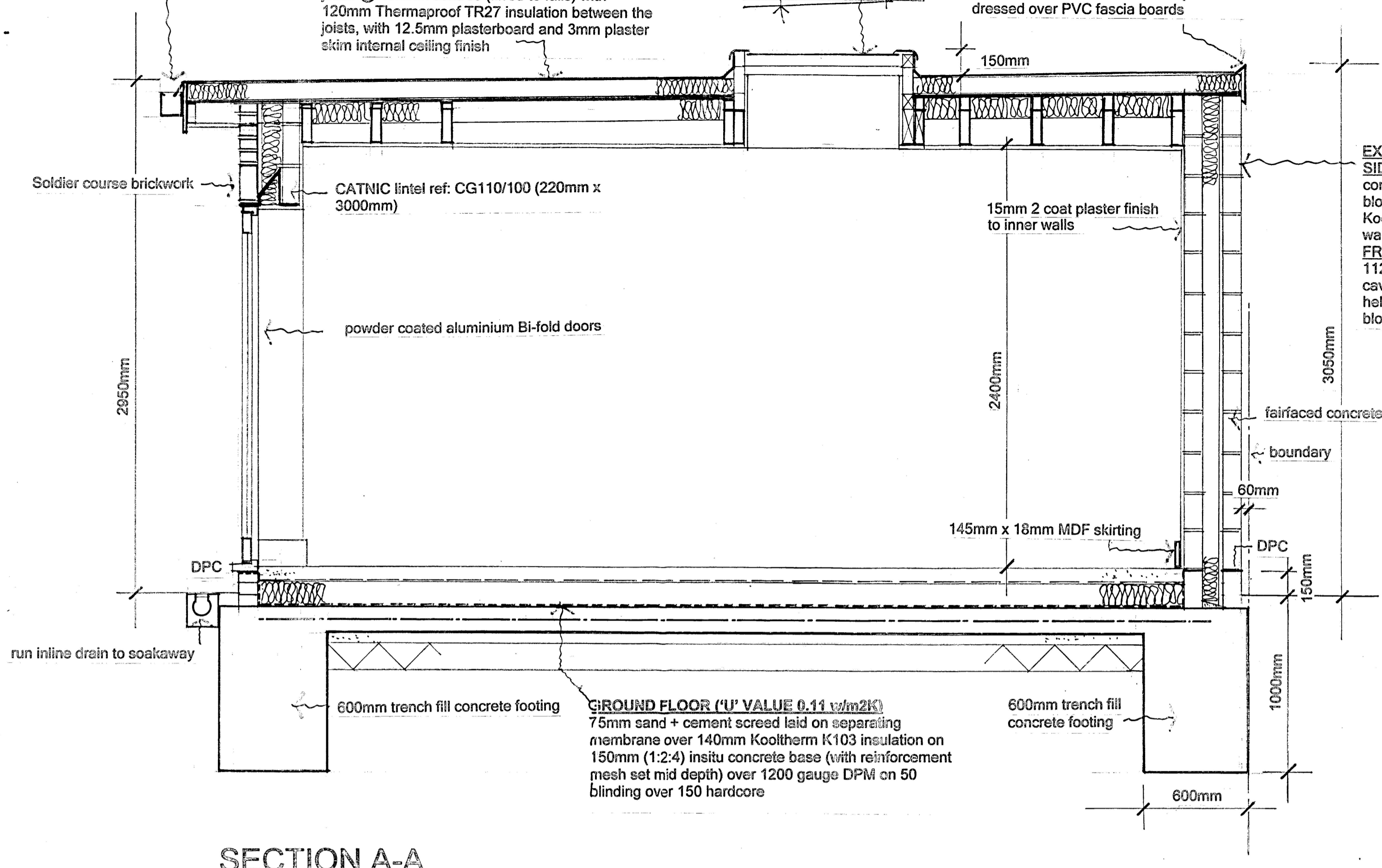
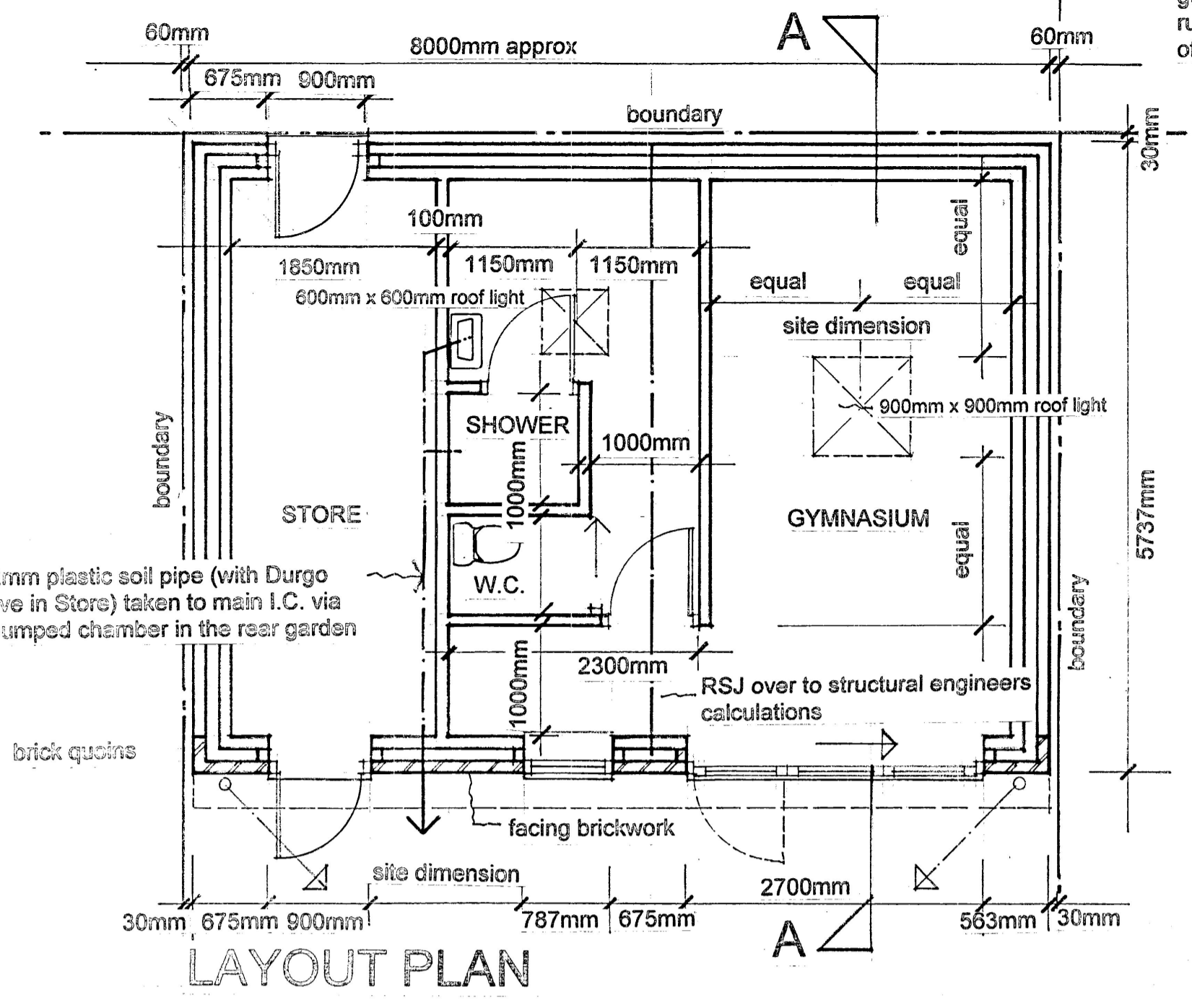


discharge into deepflow 150mm square plastic gutter and discharge into rwp at each end of the run and then into a soakaway paced a minimum of 5.0m distance from any structure

FLAT ROOF DECK ('U' VALUE 0.10w/m2.K)
 single ply membrane adhered to 100mm Thermofoam TR27 insulation on Bituminous vapour check barrier on 18mm plywood decking on 195mm x 50mm (C24) joists @ 400mm centres (fired to falls) with 120mm Thermofoam TR27 insulation between the joists, with 12.5mm plasterboard and 3mm plaster skim internal ceiling finish

Velux CFP fixed light roof window - glazed top set at minimum 5 degree slope

aluminium weather trims to roof perimeter dressed over PVC fascia boards



EXTERNAL WALLS - 'U' VALUE 0.14w/m2.K
SIDES + REAR WALLS - 325mm cavity walls consisting external fair faced 100mm concrete blocks and a 125mm cavity with 115mm Kooltherm K106 insulation held against the inner wall of 100mm Thermalite blockwork
FRONT WALL - 337mm cavity wall consisting 112mm facing brickwork outer wall with 125mm cavity and 115mm Kooltherm K106 insulation held against the inner wall of 100mm Thermalite blockwork

wall ties - use 'Catnic' BB-3 stainless steel strip ties (or similar approved), installed at 450mm vertical centres and 900mm horizontal staggered spacing

vertical restraint straps (wall plates) - use 'Catnic' VL1000/100 to each end of truss rafters - use minimum of 4 No 10 x 50mm plated wood screw fixings into the blockwork with one fixing within 150mm from bottom of strap - (2 fixings into the truss timber), straps to be placed at maximum 1800mm centres.

vertical restraint straps (trusses) - use 'Catnic' VL1000/100 to restrain timber wall plates - use minimum of 4 No 10 x 50mm plated wood screw fixings into the blockwork with one fixing within 150mm from bottom of strap - 2 fixings into the timber wall plate - restraint straps at maximum 1500mm centres

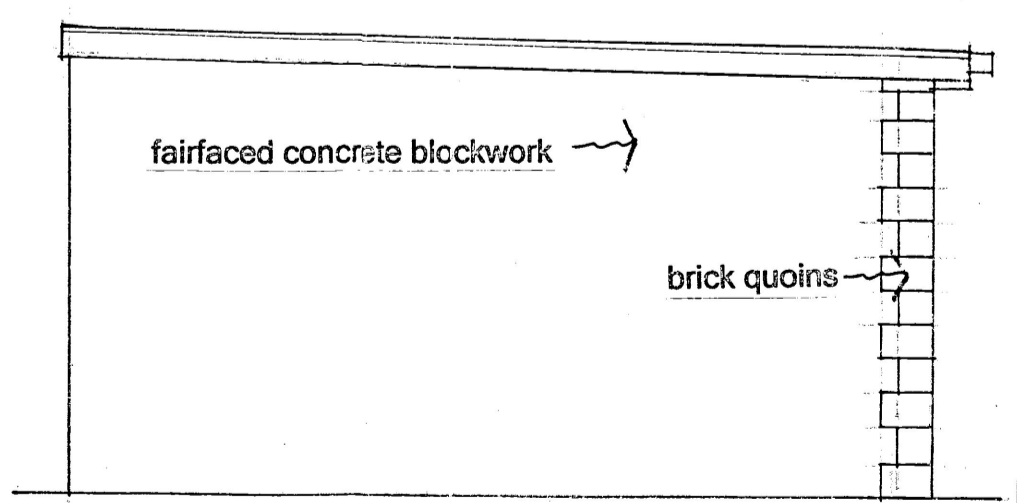
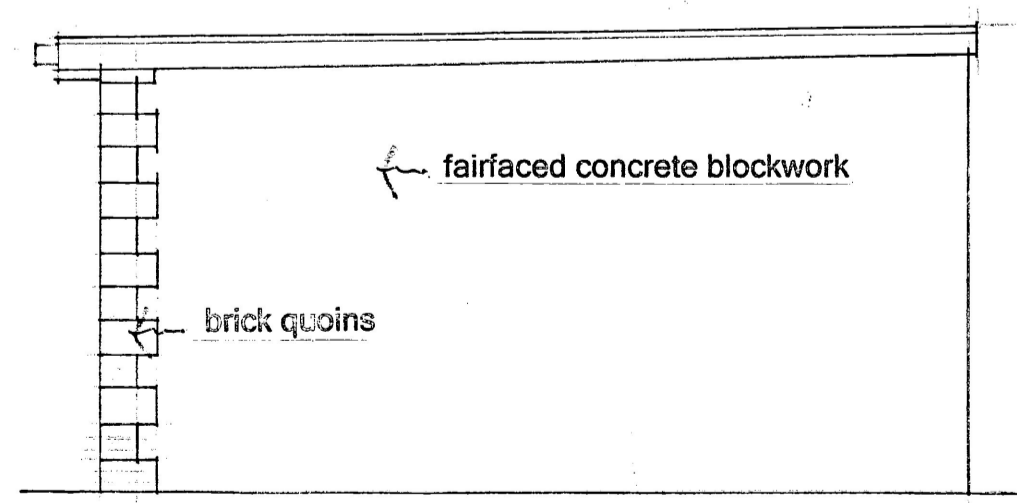
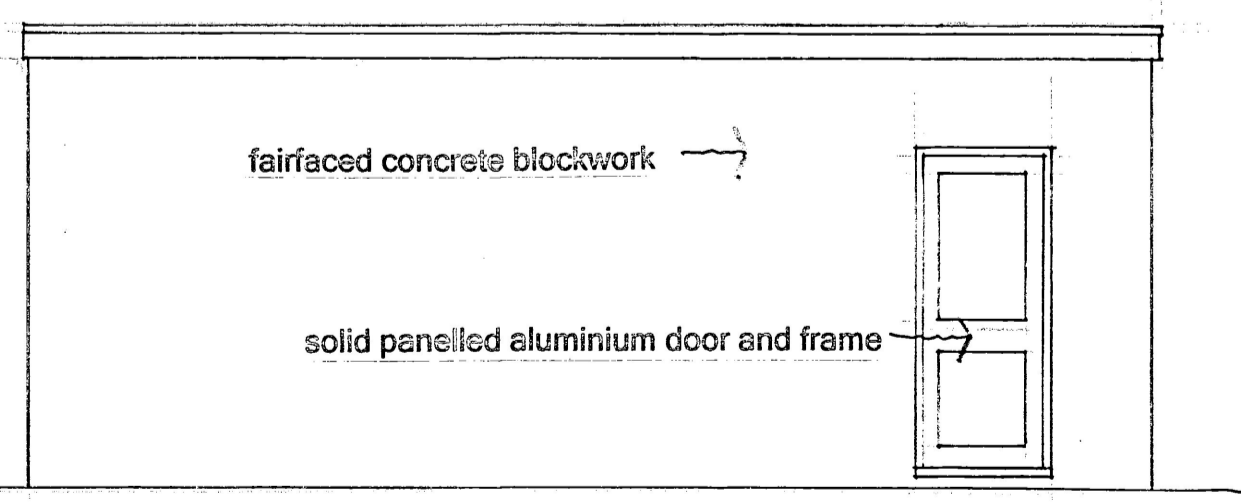
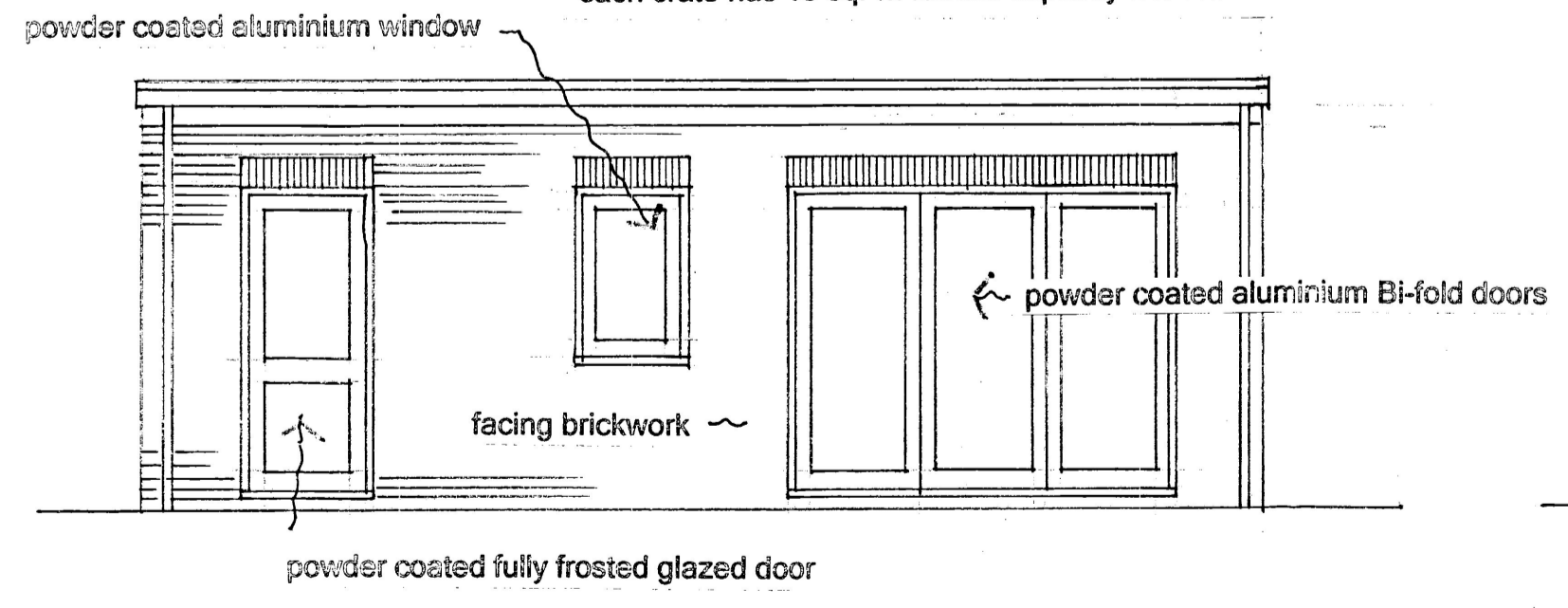
horizontal restraint straps - use 'Catnic' HL1000/100 at max 1500mm centres where joint run parallel to the external wall - use 10 x 50mm plated wood screw fixings to each joist with 2 fixings using same to blockwork

joist hangers - use 'Catnic' TTL hangers where required secured using 30mm long galvanised plasterboard nails - nail fixings through all fixing holes

wall connectors - use 'Catnic' stainless steel Stronghold Wall connectors Ref: SHWC and connector wall ties at junctions of new and existing walls - install wall ties every third brick course and secure connectors at approx every 1.0m using stainless steel coach screws and as directed by specialist suppliers recommendation

GROUND FLOOR ('U' VALUE 0.11 w/m2.K)
 75mm sand + cement screed laid on separating membrane over 140mm Kooltherm K103 insulation on 150mm (1:2:4) insitu concrete base (with reinforcement mesh set mid depth) over 1200 gauge DPM on 50 blinding over 150 hardcore

SOAKAWAY - Supply and install plastic soakaway crates (each crate is 1.2m x 0.6m x 0.42m depth) (Brett Martin or similar), 3 crates wide in a single pit and enclose with non woven 'Gestextile' material sealed with waterproof Gaffa tape at joints (to cope with a capacity of 45 sq m of surface water) - all bed on gravel - the sides and top are to be back filled with consolidated permeable gravel and all covered with min 300mm soil and lawn - each crate has 15 sq m rainfall capacity from roof



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Drawing Title
CONSTRUCTION DETAILS

Job Title
PROPOSED GYMNASIUM AND STORE IN REAR GARDEN

drawn by
 MJD
 Job No
 LA/

date
 SEPT 2023

scale
 1:50 + 1:20 @ A1

Drawing No
 101/G