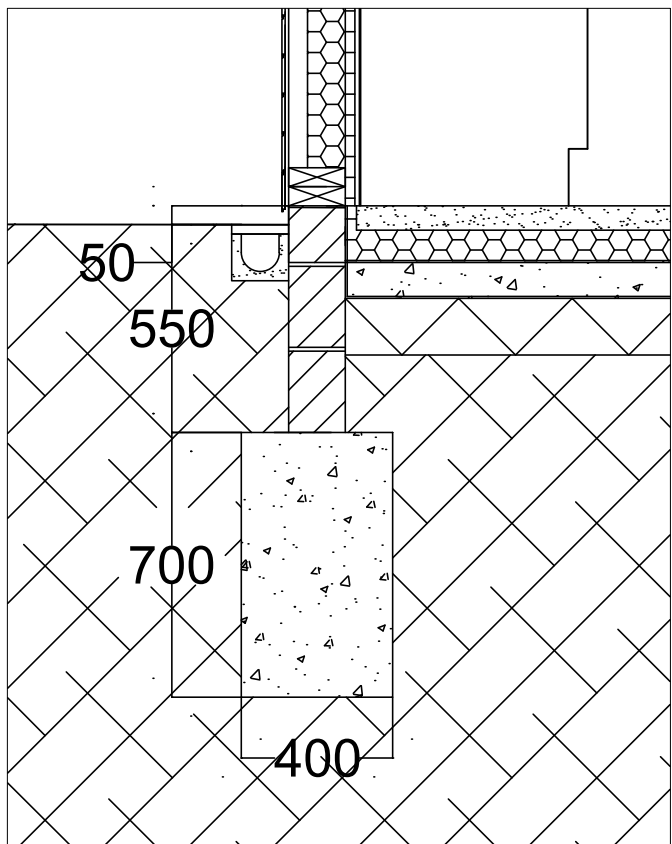
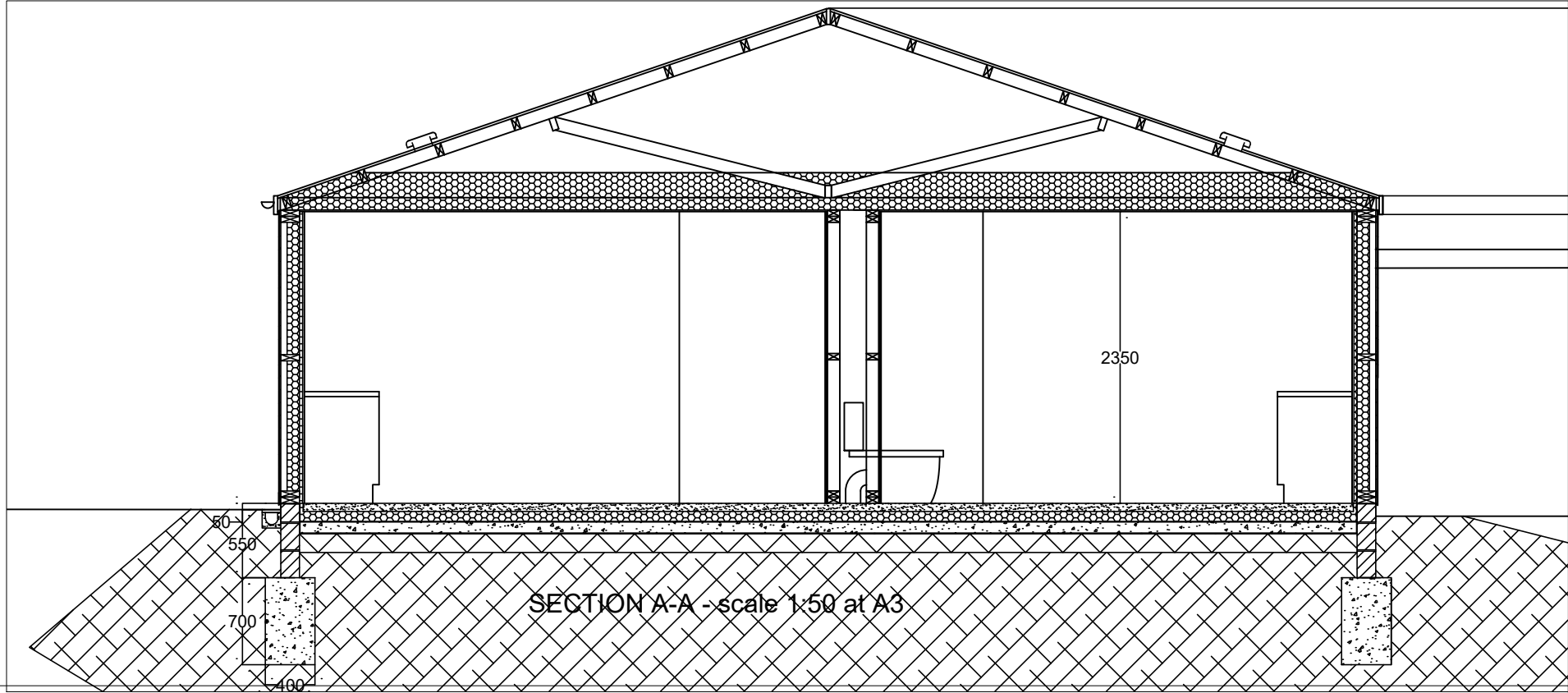
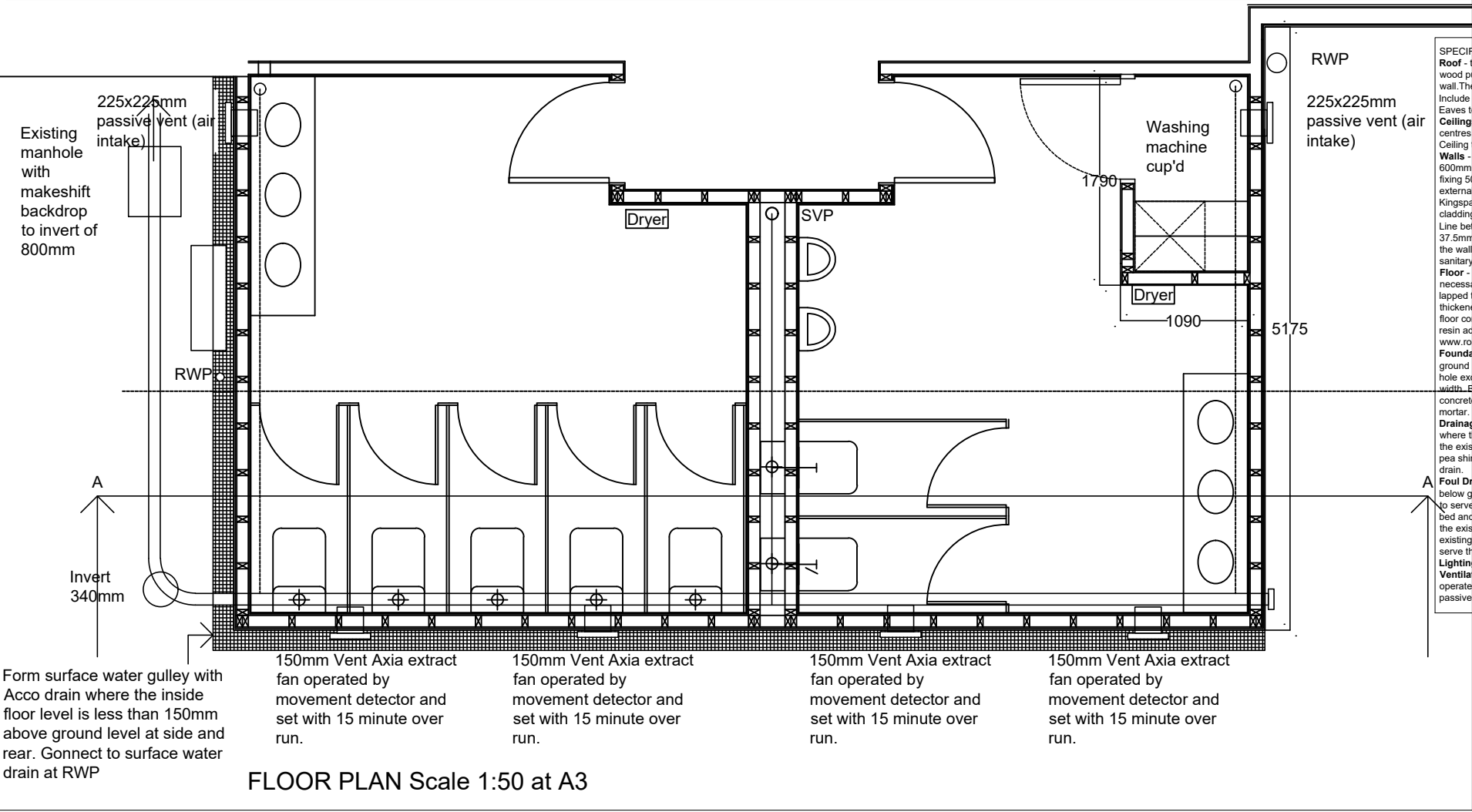




FOUNDATION DETAIL - scale 1:20 at A3



SPECIFICATION
Roof - to be an extension of the existing structure. Form the roof from 100x50mm soft wood purlins at 600mm centres supported off the existing truss and the external wall. These to carry 18mm OSB boarding and 2 layers of bitumen torch on roofing felt. Include 2 no mushroom vents to provide roof void ventilation on each slope. Eaves to be in PVC white plastic fitted tightly to the walls as the existing detail.
Ceilings - To be 12mm plaster board and skim on 50x100mm ceiling joists at 600mm centres supported off the existing roof truss and the new external walls. Ceiling to be insulated with 300mm of glass fibre or Rockwool quilt insulation.
Walls - To be timber framed. Re-use the existing 50x100mm studwork with studs at 600mm centres, head, middle and sole plate. Increase studs to 140mm depth by screw fixing 50x40mm tanalised softwood using no 5 x 75mm screws at 300mm centres. Line externally with 9mm OSB sheathing fixed with 25mm No4 screws at 300mm centres, and Kingspan Nilvent breathable membrane. Finish externally with white plastic shiplap cladding board to match the existing.
Line between studs with 100mm Kingspan Kooltherm K112. Line the walls internally with 37.5mm Kooltherm K118 in accordance with the manufacturers instructions. the walls and ceilings to be finished internally with 2 coats emulsion paint. Line around sanitaryware with 10mm washable plastic wall board.
Floor - Remove the existing suspended timber floor and clear away, excavate as necessary. Lay 150mm type 2 hardcore and sand blind. Lay Visqueen 1200 gauge DPM lapped to the wall DPC under the timber frame. Lay 100mm concrete oversite thickened under internal walls to 150mm. Lay 80mm Kingspan floor insulation. Finish the floor construction with 65mm sand /cement 4:1 screed mixed with water free Ronascreed resin admix.
www.ronacrete.co.uk trowel smooth ready to receive floor finish.
Foundation and wall plinth - Remove the existing shallow foundation concrete. The ground is expected to be London Clay according to the geological map and as per the trial hole excavated. Excavate to form a new concrete foundation to 1.1m depth and 400mm width. Backfill with 700mm of 1:3:6 mix concrete. form plinth for the wall frame from dense concrete blockwork with 215x100x450mm blocks laid on their side in 1:3 cement /sand mortar. Bed new Hyload DPC on walls under the wall frame lapped to the overside DPM.
Drainage Channel and Storm Drain - Outside of the wall, form a Atco drainage channel where the inside floor level is less than 150mm above the inside ground level. Connect to the existing storm drainage system with 100mm dia underground pipework laid 1:40 in pea shingle. Re-connect the RWPs to the underground drainage system via the Atco drain.
Foul Drainage - There is an existing drain adjacent to the extension. Invert at 900mm below ground. Remove the back drop installed by previous builder. Re-form the drainage to serve the sanitaryware as shown using 100mm dia underground drainage pipework laid bed and surrounded in 100mm pea shingle. Gradient to be 1:40 to finish at the invert of the existing drain. New 300mm dia inspection point at change in direction. Finish at the existing SVP at the top of the run as installed. Include also rodding eye as installed to serve the main wc branch run.
Lighting - as installed to be re-installed LED fittings.
Ventilation - install 2 no 150mm Vent-Axia mechanical extract fans to each room to be operated by movement detectors and set with 20 minute over-run. Include also two no passive vents with anti-draught to the opposite side of the rooms.

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Client Shinfield Players

Project Proposed Extension to form toilets for the Theatre

Title Proposed Floor Plan and Section A - A

Scale 1:50	Drawn by KW	Date May 2025	Drawing No 202501/03
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