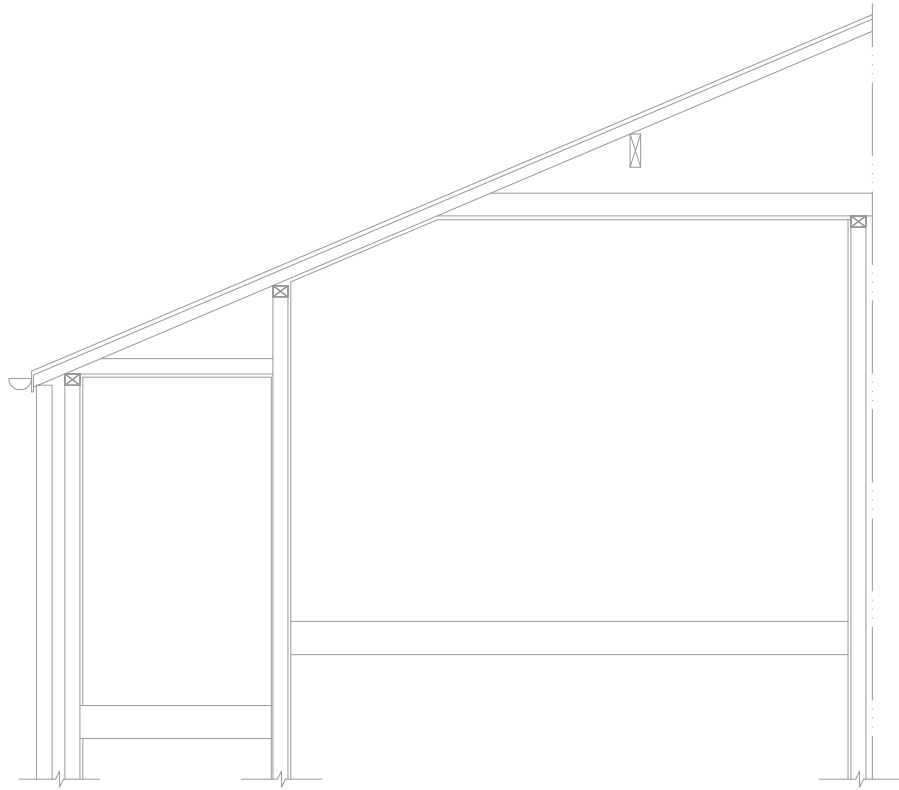




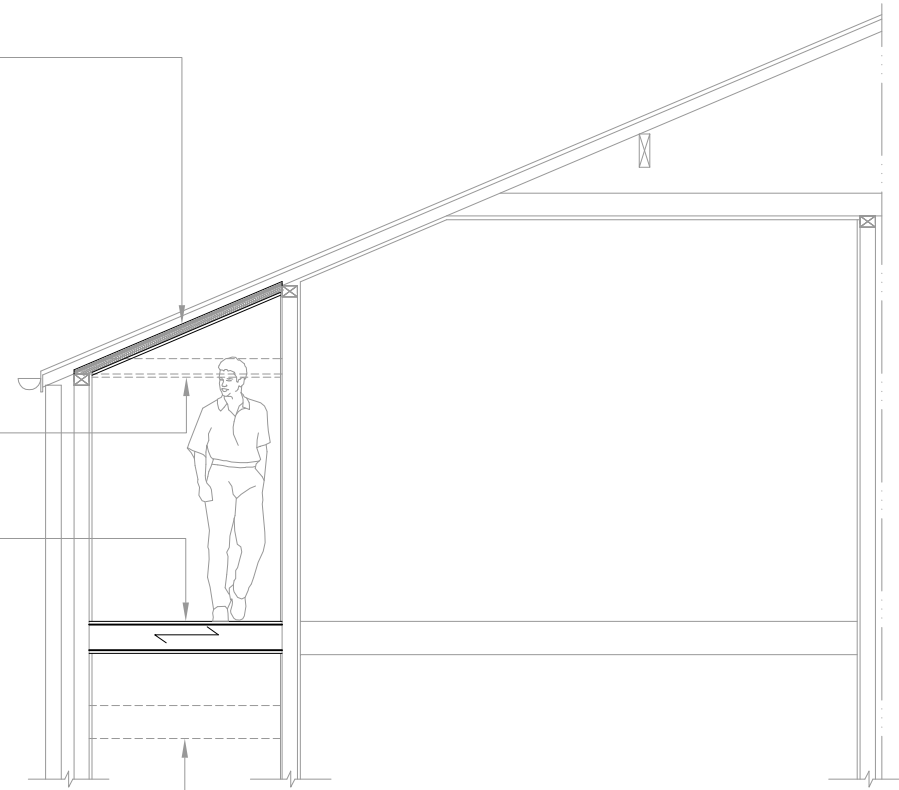
EXISTING SECTION A-A
scale 1:50

Insulate between existing 70x75mm rafters using 20mm deep Recticel Eurothane GP between rafters leaving min 50mm gap for ventilation and drape of felt, provide eaves vents and a vent tile to promote cross flow ventilation.
Provide a further 50mm thick layer of Recticel Eurothane GP under rafters tape joints to create vapour control layer and air leakage barrier to underside of rafters, finish underside with 12.5mm plaster and skim.
Please Note: Vaulted roof - VCL or insulation should not be penetrated or cut to facilitate the installation of downlights. Consider installing surface mounted downlights or slim surface downlights.

Remove exg. ceiling construction.

First floor laid level with existing using 22mm T&G timber floorboards or chipboard on 38x170mm C16 timber joists at max 600mm ctrs. Provide lateral restraints to first floor joists using 30x5mm mild steel anchors fixed to blockwork at maximum 2000mm ctrs. Provide 100mm thk. mineral wool inlay between all joists. Ceilings to underside of joists to be 15mm plasterboard with skim finish.

Remove exg. floor construction.



PROPOSED SECTION A-A
scale 1:50

GRP watertight finishes to be laid by specialist installer

18mm Metsä Wood W/III or +III/III Plywood waterproofed decking on 1:80 falls 50mm x 50mm s.w. firings on 38x220 C16 timber joists at max 600mm ctrs (double or treble up around lantern and to be confirmed via S.E's calculations prior to ordering) fixed to 75x100mm wall plates using pressed steel brackets. Wall plates fixed to walls at 1500mm centres using 30mm x 5mm mild steel straps spanning 600mm of wall, raise GRP 150mm up wall & flash with Code 5 lead flashings dressed 150mm up wall into bwk. mortar joint at junction of flat roof and house wall. 100 x 50mm s.w. water check fillets to roof verges.

Insulate using 130mm Recticel Eurothane GP cut tight with friction fit between joists. Provide 50x50mm cross battens at 600mm ctrs perpendicular to joists for ventilation and install 25mm continuous PVCu. strip soffit vents with fly screens for cross ventilation of roof void, to all exposed elevation walls. Ensure roof wall abutment ventilation is achieved using Typo RAV-FL abutment ventilators or similar. Install marine grade plywood over cross battens. Provide further insulation below joists using 40mm Recticel Eurothane GP (to achieve 'u' values of 0.15 W/m²K). Tape joints with 50mm wide aluminium tape for vapour barrier. Provide 500g DPM above insulation. Finish ceiling with 12.5mm plasterboard and skim.

joists parallel to walls are to receive lateral support using 38 x 5mm galv. steel straps at 1200 ctrs. straps to span 3 joists with strut noggins between joists at strap locations

UPVC Fascia boards to match with existing.

Please Note: VCL or insulation should not be penetrated or cut to facilitate the installation of downlights. Consider installing surface mounted downlights or slim surface downlights

WALL CONSTRUCTION:

Cavity wall comprising of: 103mm facing bwk. to match existing, 100mm cavity filled with 90mm thickness Recticel Eurowall Plus cavity wall insulation board (to achieve 'u' values of 0.18 W/m²K); stainless steel wall ties (5 No. per m² & at staggered ctrs.- double up wall ties around all opening reveals); 100mm Thermalite Turbo concrete block inner skin; dense conc. foundation blocks or common bwk. below g.l. with fine conc. cavity fill terminating 225mm below dpc; Hiload pitch polymer dpc. min 150mm above g.l. for both skins; Lap & seal inner skin dpc to floor dpm. 100 x 75mm wall plates tied to inner skin with 38 x 5mm galv. steel straps spanning 600mm of wall & at 2m ctrs. Galv. steel lintels by Keystone Lintels Ltd.

With cavity tray dpc's over & external weep holes New brickwork to be bonded to old using wall ties or similar approved method. Intersecting walls to create continuous cavities.

All openings in external cavity wall to have vertical dpc's; cavity wall will be closed around all openings & at plate level with special PVCu insulated cavity closures by Thermabate or similar & approved to prevent cold bridging; ensure cavity wall insulation board terminates 150mm below finished floor level; ensure that no mortar snots or other debris fall between cavity board to bridge skins of wall. Finish internally with 12.5mm plaster and skim.

Ground beam and piling to piling contractors details

Provide heave boards to ground beam and u/s slab

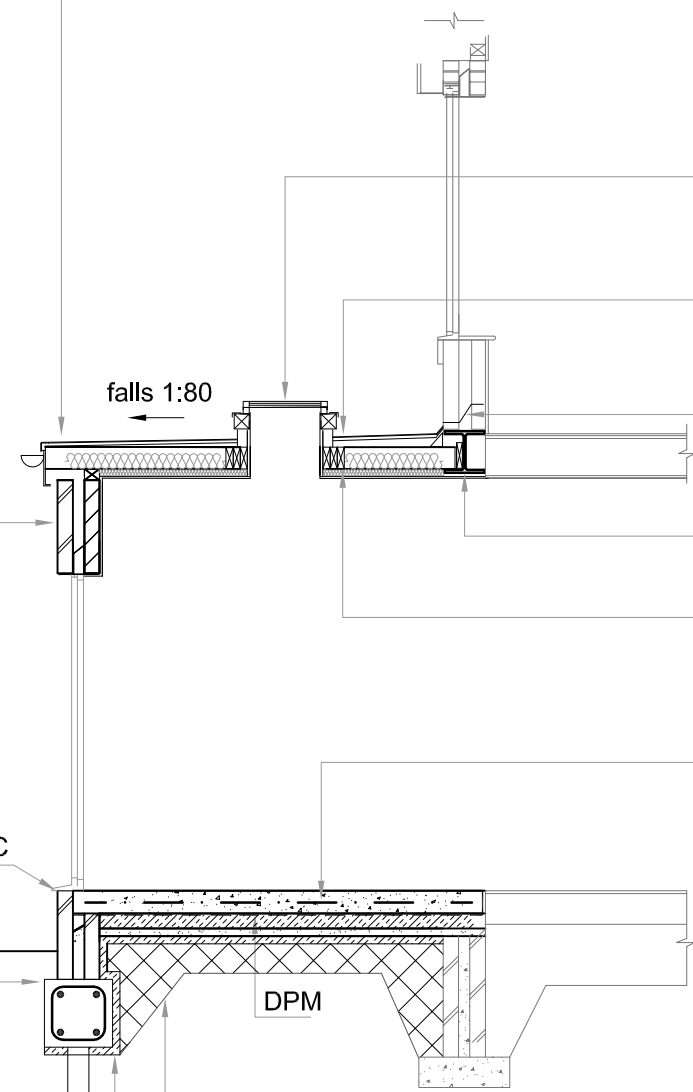
GROUND FLOOR CONSTRUCTION

Laid level with existing using tiles or asphalt finish on 150mm thickness concrete on polythene separation layer on 100mm thickness Recticel Eurothane GP insulation (to achieve 'u' values of 0.18 W/m²K) on, 1200 gauge Visqueen damp proof membrane on 50mm sandblinding, finished fully level & smooth; 150mm layers of clean & sulphate free consolidated hard-core to a maximum depth of 600mm.

All new hard-core must be clean & free of all wood, vegetation etc. Second-hand hard-core shall not be permitted.

NOTE 1:- Should new floor cover existing air bricks for sub-floor ventilation, then the existing air bricks are to be ducted to new air bricks on new external wall to maintain cross ventilation.

NOTE 2:- Provide perimeter insulation to exposed walls by installing 20mm Kingspan Thermafloor TF70 zero ODP perimeter insulation upstand insulation strips for the depth of the screed at the abutment of the screed to wall junctions.



SECTION B-B
scale 1:50

Sky lantern approx 5m x 0.5m to suit clients requirements to be fitted in strict accordance with manufacturers instructions

Precision flashings provided by skylight manufacturer or provide min 150mm flashings

cavity tray

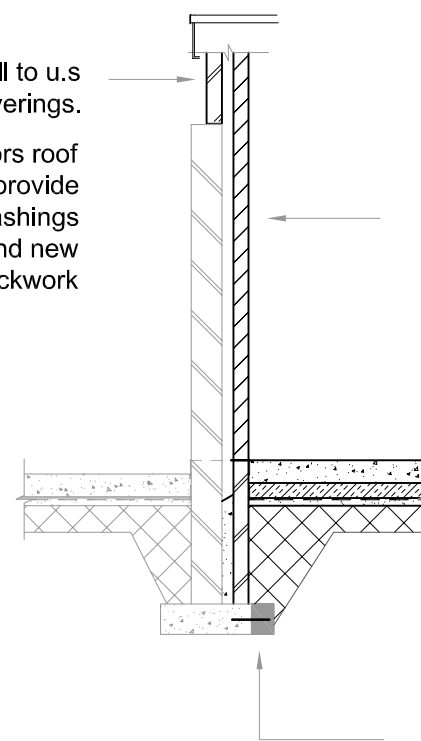
Steel to S.E.'s details.

Double or treble up roof joists and trimmers around skylight to be proven via S.E.'s calculations

A193 mesh
Suspended slab to be designed by a structural engineer.

build up exg. party wall to u.s of new roof coverings.

make good neighbors roof coverings and provide stepped lead flashings between exg. tiles and new brickwork

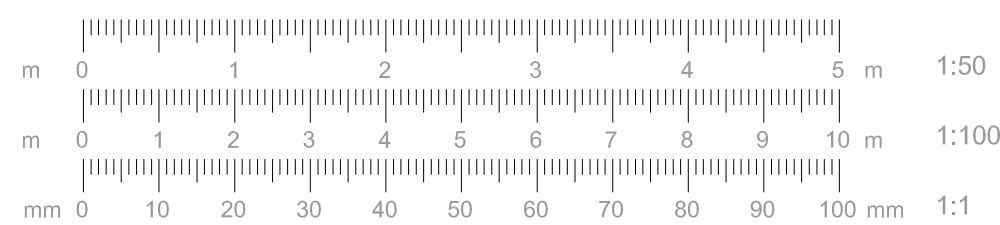


New Blocks to be tied to exg bricks using shot fired wall ties by Hilti or similar (5 No. per m² & at staggered ctrs.- double up wall ties around all opening reveals); 100mm Thermalite 'Shield' lightweight concrete block inner skin; dense conc. foundation blocks or common bwk. below g.l. with fine conc. cavity fill terminating 225mm below dpc; Hiload pitch polymer dpc. 150mm above g.l. for both skins; Lap & seal inner skin dpc to floor dpm., provide 100mm cavity to be filled with 90mm thickness Recticel Eurowall Plus cavity wall insulation board.

Footings to be exposed to prove satisfactory, new nib to be added to footings for new internal blockwork and to be dowled to exg. if required. Min foundation requirements are as follows:-

Min 600mm wide x 300 mm deep concrete strip foundations, min 1m depth from ground level or 150mm below invert level of drains which ever is the greater or to suit exposed sub-soil conditions.

SECTION C-C
scale 1:50



DWG No. L36 STD/93/03	
TITLE CROSS SECTIONS	
PROJECT Proposed Development to 93 Tarbock Road Huyton L36 5TD	
CLIENT Mr. K. Burnett	
DATE	04/06/2024
SCALE AT A1 AS SHOWN	
PRO-TECH ARCHITECTURE WWW.PRO-TECHARCHITECTURE.CO.UK CONTACT : LEE ROWLEY B.ENG.(HONS) 0151-420-7895 07967836028 20 ELSTREE COURT WIDNES, WAB 3EP INFO@PRO-TECHARCHITECTURE.CO.UK FOLLOW US ON FACEBOOK @PROTECHARCHITECTURELTD	