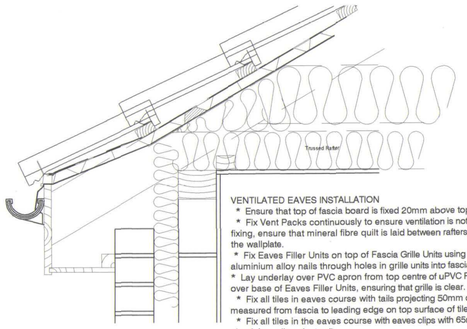
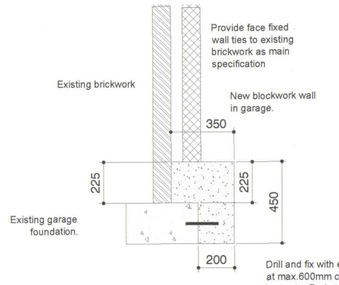
Contractor to check all Dimensions on site prior to ordering materials / commencing work.Do Not Scale from this Drawing - If in doubt then please ask



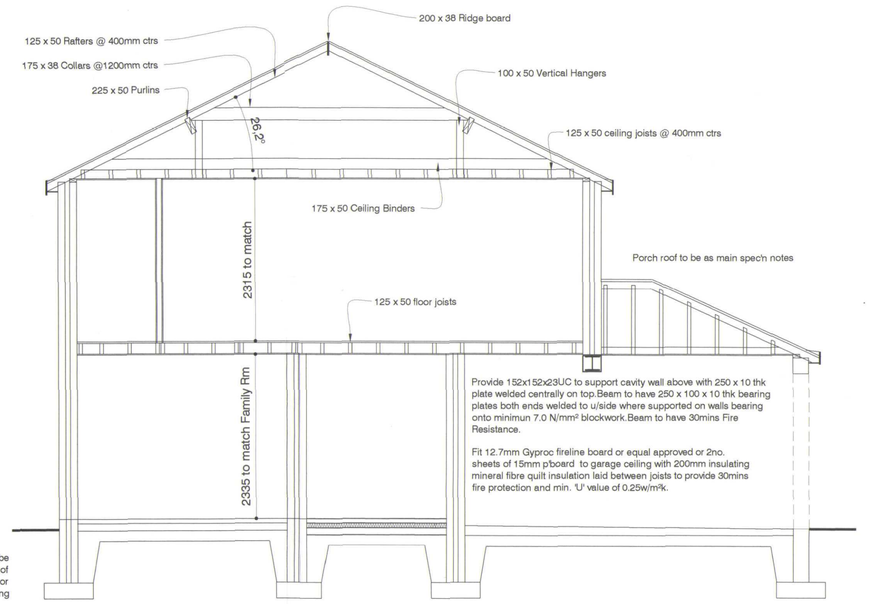
VENTILATED EAVES INSTALLATION
* Ensure that top of fascia board is fixed 20mm above top of rafters.
* Fix Vent Packs continuously to ensure ventilation is notblocked. Before fixing, ensure that mineral fibre quilt is laid between rafters, over and behind the wallplate.
* Fix Eaves Filler Units on top of Fascia Grille Units using 50mm x 3mm aluminium alloy nails through holes in grille units into fascia board.
* Lay underlay over PVC apron from top centre of uPVC Fascia Grille Units, over base of Eaves Filler Units, ensuring that grille is clear.
* Fix all tiles in eaves course with tails projecting 50mm over gutter. 50mm measured from fascia to leading edge on top surface of tile at bottom of pan.
* Fix all tiles in the eaves course with eaves clips with 65mm x 3.75mm aluminium alloy clout nails.



Drill and fix with expoxy grout 2no. R16 steel tie rods at max.600mm ctrs to the satisfaction of the Building Inspector.Rods to have 75mm edge cover into existing and 100mm edge cover into proposed.

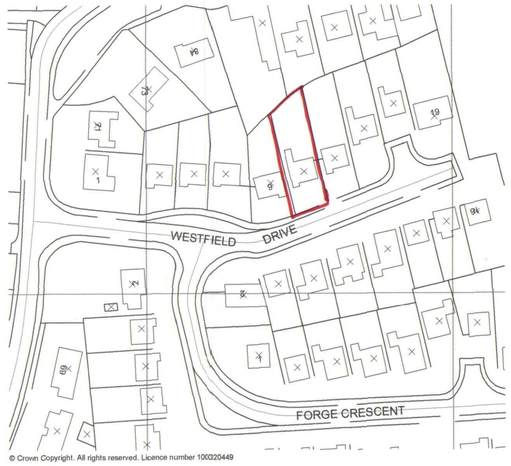
TYPICAL FOUNDATION DETAIL TO EXISTING WALL.

Note: The detail shown is a typical constructional method to provide an inner skin of blockwork.This detail should be adapted to suit specific site conditions and always to the satisfaction of the Building Inspector.

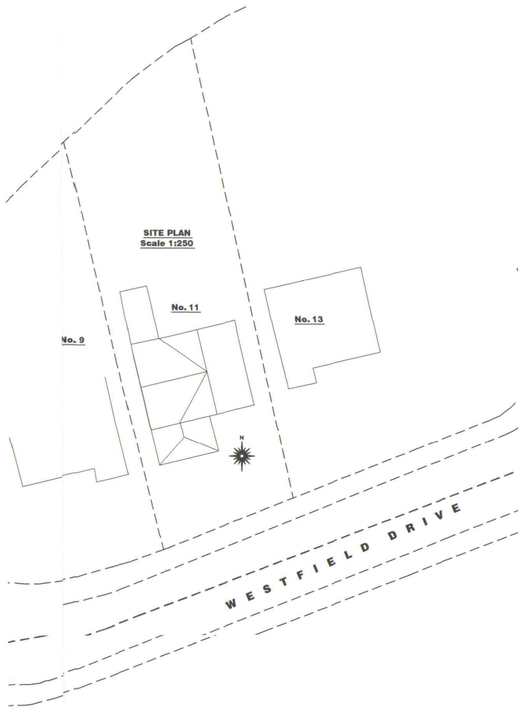


Contractor to deterrine if existing floor level will allow 65mm mortar screed with a light gauge reinforcig chicken wire on 500 gauge poythene separating layer on a 60mm Celotex Double R GA2000 rigid insulation board or similar approved to be laid directly over exiting garage floor.If not chop out and replace with floor as main specification.Fovide 30mm thick perimeter insulation between screed and floor insulation uptcd.p.c level.

GARAGE FLOOR
Min.100mm thick ST4 concrete with a light gauge reinforcing chicken wire laid to 1:100 fall towards entrance drive on a 1200 gauge DPM lapped onto DPC within walls on min.150mm clean and well compacted hardcore.Depth of hardcore must not exceed 600mm and must be compacted in 150mm thick layers.All service entries to be sealed with pressure sensitive tape.



LOCATION PLAN



ROOF INSULATION
Lay 300mm mineral fibre insulation to roof area to achieve a 'U' value of 0.16w/m²K.100mm between rafters and 200mm over rafters at right angles to first layer.Fix Dovetail rafter tray in accordance with manufacturers instructions or similar approved where insulation meets roof slope to maintain roof ventilation.

ROOF FINISH.
Concrete interlocking roof tiles to Clients requirements / approval in accordance with manufacturers instructions on 50x25 preservative treated timber battens on untearable sarking felt type IF with min.150mm overlaps.Generally all tiles at perimeter of roof to be clipped and nailed.

ROOF VENTILATION.
Roof ventilation to be achieved via fascia level ventilators complete with integral insect proof screens which will supply the roof space with ventilation equivalent to a continuous 10mm gap.Provide at both sides of roof to ensure cross ventilation.

CEILINGS
All ceilings to be 12.7mm plasterboard to BS1230. Ceilings to be have Coving and an Artex finish to clients requirements.Plasterboard sheets to be fixed with joints staggered and must be layed perpendicular to all joist runs.Fix boards at a min.150mm centres.

SMOKE ALARMS
To be self contained,interconnected and wired to a separately fused circuit with a battery back up.Smoke alarms to be fitted to u/side of plasterboard ceiling to the ground floor max 7m from the kitchen / lounge and to be max. 3m from any badroom door. All alarms to be strictly in accordance with BS 5446 and to be wired that when one alarm is triggered all alarms are activated.

WASTE SIZES FOR NEW PLUMBING
All new plumbing to have the following waste sizes:
W.C=100mm ø Multikwik or similar approved
W.H.B=32mm ø uPVC with 75mm Deep sealed trap
SINK=40mm ø uPVC with 75mm Deep sealed trap
SHOWER=40mm ø uPVC with 75mm Deep sealed trap
Provide access points to all changes in direction.Provide anti-siphon traps where pipe runs exceed 3m and W.H.B pipe run exceeds 1.8m.

NOGGINGS
Fix 38x38mm timber noggings to all potential loose plasterboard ceiling edges and light fittings.Position of light fittings to be advised by client on site.

INTERNAL JOINERY SKIRTING & ARCHITRAVES
All internal finished timber to be free from all defects and to clients approval prior to ordering any materials.

ELECTRICAL INSTALLATION
To be in strict accordance with the latest I.E.E Regulations and Engineer to advise if any appliance or position of appliance does not conform to regulations. Contractor to seek advice from Client with regard to lighting requirements.

ROOF / LOFT ACCESS
Provide insulated roof access trap door with a fully weathered sealed frame and a 38mm brass bolt or to clients requirements.

HEATING SYSTEM
Provide a Low Pressure Hot water Central system via Gas Fired Boiler and cyclinder complete with fan assisted flue and combustion air vent. Balanced flue to be located on external wall within 2m of ground level. Area of vent is to be in strict accordance with manufacturer's recommendations.Boiler to have a SEDBUK rating of 85 %.Electrical operated boiler control interlocks are to control the operating periods of the boiler which in turn is controlled by a room thermostat positioned in proposed living room.The boiler should only fire when the space heating or the Cyclinder termostat calls for heat.All radiators are to be fitted with thermostatic radiator valves. The hot water cyclinder is to be insulated with a factory applied PU foam coating at least 35mm thk having a min. density of 35kg/m³. All space heating pipework located outside the building fabric insulation layers to be wrapped with insulation material having a thermal conductivity at 40°C not exceeding 0.035 W/m°K and a thickness equal to the outside diameter of pipe upto max. of 40mm.It should be noted that central heating and hot water pipework in unheated areas may need increased insulation thicknesses for the purpose of protection against frost, refer to BRE Report No. 262 2002 Edition.

COMMISSIONING OF HEATING AND HOT WATER SYSTEM
Contractor to submit a certificate to show that commissioning has been successfully carried out. The certificate should be made available to the Client and SHDC building inspectors. A suitable certificate should be one published as part of the Benchmark Code of Practise for Installation, Commissioning and Servicing of Central Heating Systems, a blank copy may be included within the boiler manufacturers installations instructions or from C.H Information Council on Tel no: 01926 423 284.

RAINWATER DRAINAGE
White uPVC guttering and downpipes to clients approval.Falls for guttering to be 1:600 and brackets fixed at max. 2m ctrs.Downpipes to be connected into underground drains via reducing adapter.Underground drains to be 110mm Ø Osma uPVC or similar approved with flexible joints laid on 100mm peagravel and min 150mm surronds laid to 1:100 falls to new soakaway.Soakaway specification detailed elsewhere.

FOUNDATIONS
Existing building area to be stripped of all vegetable matter and rubbish to a min.depth of 150mm before excavation commences.Concrete mix for foundations to be GEN3 in accordance with BS5328:1981.Foundations to external wall to be min.700mm wide x 225mm deep.Excavate down to solid firm strata i.e 750mm deep (min.1000mm if soil is of a shrinkable nature).Exact depth to suit conditions on site and to the strict approval of the L.A Building Inspector.Any irregularities in subsoil during excavation to be brought to the immediate attention of the Building Inspector & advice to be sought from a Chartered Structural Engineer.

WALLS BELOW D.P.C
3no.Courses of Class B brickwork below D.P.C on outer face and 1no.coarse of 7N/mm2 on inner skin of cavity face.Elsewhere to be either 7N/mm2 concrete blockwork or full width trench blocks.Both to be within 225mm of DPC level.Cavity to be filled to within 225mm min. of below DPC with lean concrete mix.

GROUND FLOOR
65mm mortar screed with a light gauge reinforcing chicken wire on 500 gauge poythene separating layer on a 60mm Celotex Double R GA2000 rigid insulation board or similar approved, provide 30mm thick perimeter insulation between screed and floor insulation upto d.p.c level on 100mm thick GEN3 concrete sub-floor on a 1200 gauge DPM lapped onto DPC within walls on min.150mm clean and well compacted hardcore.Depth of hardcore must not exceed 600mm and must be compacted in 150mm thick layers.All service entries to be sealed with pressure sensitive tape. Floor to achieve a min 'U' Value of 0.25w/m²K.

DAMP PROOF COARSE (D.P.C).
Horizontal heavy duty polythene DPC "Hyload" or similar approved to all walls in accordance with BS 6515 and set min.150mm above all external ground levels.DPC in walls must be linked / lapped with DPM in ground floor.Provide performed cavity wall trays above windows & doors with weep vents at a max.of 2m centres with a min.of 2no.per opening.

EXTERNAL WALLS
All external walls to be 265mm overall thickness comprising of:
-100mm Brickwork to match existing
-85mm cavity filled with Crown Dritherm (or equal approved) built in as work progresses.Insulation batts should be kept clean and free from mortar droppings, all joints should be closely butted. Any cutting and fitting should be neatly done and not distort the layers of glass wool which comprise the material. All DPC's should be installed to ensure that penetrating water is directed only to the outer leaf.
-100mm Thermalite Shield insulating blockwork.
Continue wall insulation at least 150mm below top of perimeter floor insulation and support off wall ties.
External wall to achieve a min 'U' value of 0.35w/m²K.

CAVITIES
Close all cavity walls at jambs with Thermabate or similar approved Insulated cavity closers fitted strictly in accordance with manufacturers instructions. Roof insulation to be continuous with wall cavity insulation.Install Insulated Cavity Closers by Thermabate or equal approved, 25mm thick x 65mm wide (to equal cavity width) at jambs and cills of all openings in masonry cavity walls. Secure with the proprietary clips provided at maximum 500mm centres. Ensure that closers fit tightly to each other and to the lintel. The closer at the jamb must completely lap the closer at the cill.

MORTAR
All mortar to be 6:1:1 sand/cement/lime or equally approved and to be a consistent colour throughout duration of contract.Finish mortar joints as agreed with Client on site.

WALL TIES
Stainless steel cavity wall ties to BS1243:1978.To be built into cavity wall as works proceeds and spaced at 900mm centres horizontally,450mm centres vertically and 300mm staggered around all openings.Ensure wall ties are level or at least sloping to the outside leaf.Bed ties a minimum of 50mm into each leaf and ensure wall ties are completely free from mortar droppings.

LINTELS
All lintels to cavity wall to be factory insulated Birtley Supergalv range unless noted otherwise or equalled approved.All lintels must have a min.150mm endbearing and installed in accordance with manufacturer's instructions.Do not allow masonry to overhang lintel by more than 25mm. Note: lintels are not to have a continuous baseplate.

WINDOWS & DOORS
All windows to be White uPVC to clients requirements based on styles shown on elevations.Fit with 4000mm² trickle ventilators to Kitchen, Utility,Bathroom & En-Suite windows and 8000mm² elsewhere all in accordance with manufacturers recommendations.Patio doors to be fitted with 10000mm² ventilators.Opening vents to give 1/20 th of floor area rapid ventilation to all rooms.All glazing within 800mm of floor level and within 300mm of a door to a height of 1500mm of ground level to have toughened glass in accordance with Section N of the Building Regulations and BS6206 class B.All double glazed units to be installed in accordance with BS 6262 and to have a 16mm Air gap with a soft Low 'E' coating on glass inner pane to achieve a min 'U' value of 2.0 w/m²K.Note all windows to have a perimeter weatherseal both internally and externally and to be fully draught sealed.Provide frosted glass to all Bathroom, W.C's and En-suite windows.Ensure windows & doors are fitted within masonry reveal to overlap cavity closer by min.10mm to avoid cold bridging.

TIMBER WALLPLATES
All timber wallplates supporting roof trusses to be 100mm x 50mm bedded on top of wall.Timber to be SC3 grade and use a min. length of 3m and half-lap plates at joints and corners..Provide anchor straps as described in notes elsewhere.

LATERAL RESTRAINT STRAPS
Tie roof structure to blockwork wall with 30X5 galvanised mild steel straps at max 1.8m ctrs where rafters and ceiling joists run parallel to blockwork walls.Also fit at max 1.8m ctrs to anchor wallplate to blockwork wall with min 3no. fixings per strap.

SOAKAWAYS
All rainwater to discharge into soakaways and to be min.of 5m from any building & a min.of 1m³ filled with rubble to within 450mm of external ground level.Overlay rubble with polythene sheet and backfill with clean topsoil.Note the soakaway inlet pipe must discharge to the centre of the soakaway in all directions.

DETERMINED PLAN
S+DC Planning & Development
25 FEB 2004
Ref 0261/04

PLEASE NOTE:
Due to areas of the structure being covered, unexposed or otherwise inaccessible the notes / specifications of existing materials are subject to confirmation of site when it is feasible to expose the relevant areas of construction.

GENERAL CONDITIONS
Contractors are resonsible for checking all dimensions on site when work commences and before ordering any materials.Any discrepancies should be brought to the attention of the Client for remedial action before commencing further.

All details shown are based on typical site conditions for that area, any abnomal conditions should be brought to the attention of the Client and Local Authority.

The notes shown are mainly to cover the requirements of Building Regulations and

No allowance has been made for any Structural Calculations,a "SAP" calculation, Soil Investigation or Flood Risk Assessment.If deemed necessary then these will be a chargeable extra.All steel beam sizes shown on drawing are all subject to confirmation from Structural Engineer.

All materials not specified to be of a standard suitable for the work proposed and be fit for purpose.All work to be in accordance with good building practise and all necesary BS codes for Workmanship on Building Sites.

REV DESCRIPTION:

remway design Ltd
Plans drawn for: Local Authority - Planning permission & Building Control.
3, Rembrandt Way
Spalding
Lincs
PE11 3HX
Tel: 07815 112 058
Fax: 01775 768 921
e-mail: jason@remwaydesign.co.uk

Project:
Proposed Extension above Existing Garage

Client:
Mr C Cocks
11, Westfield Drive
Spalding
PE11 3TW

Date: feb'04 | DRG No.: CC02 | REV: