Existing Garage outbuilding to be removed to make way for proposed replacement Garage.

External materials, facing bricks and roof tiles to match those of existing House.

Roof pitch to be 40°.

Garage doors to be roller shutter type.

Heating to be by Air Condition unit to clients requirements.

Connect foul drains to existing septic tank.

Roof trusses to be raised tie type.

Roof lights to be installed all to manufacturers instructions.

Provide mechanical ventilation to WC.

To First Floor provide 19mm flooring grade moisture resistant decking.

Private Stairs
Stairwell formed by timber trimmers and load bearing walls (see plan). Provide timber balustrading to open side of stairs 900mm above pitch line and 1000mm high to stairwell opening to act as guarding and to be capable of resisting a horizontal force of 0.36 KN/m. Balustrading to be vertical type, not horizontal or ranch style. No parts of stairs to have any gaps greater than 99mm. Provide timber handrail to top of balustrading or independently 900mm above pitch line. Ensure minimum headroom above pitch line is 2000mm. Total rise: See plan. Maximum rise: 220mm. Minimum going: 220mm. Maximum pitch: 42° . Read in conjunction with Approved Document K.

Roof Ventilation to Sloping Ceiling
At eaves provide proprietary ventilation equivalent to a 25mm continuous gap along eaves. At ridge provide proprietary ventilation equivalent to a 5mm continuous gap.

WC Ventilation
Provide proprietary mechanical extract ventilation unit capable of extracting 15lt/sec. System to offer intermittent operation.

Safety Glazing
Provide safety glass to BS6206 to all windows to a minimum height of 800mm above floor level plus doors to a minimum height of 1500mm above floor level. Side screens to be same as doors if within 300mm of doors.

Smoke Detection
Provide mains operated self-contained smoke alarms to BS5839 Part 6, 2006 in accordance with Approved Document B1.

Roof Insulation
To roof spaces provide proprietary 300mm thick fibreglass insulation laid as 100mm between joists and 200mm across joists or equivalent to give 0.16 U/value. Ensure a gap of 50mm between roof underfelt and quilt at all times.

Foul Water Drainage
Underground drainage to be proprietary 110mm diameter p.v.c. pipes flexible jointed to fall 1:70 bedded in 100mm pea gravel. Under building drains to be encased in 150mm pea gravel with lintel over pipes at wall abutments. Where drain passes through wall, provide suitable protection to prevent gas ingress to building. 110mm diameter soil and vent pipe to extend 900mm above window head and to terminate in balloon finial. Soil and vent pipe to be fitted with access plate at base. Provide suitably sized wastes from all appliances (in accordance with Approved Document H) complete with minimum 75mm deep sealed traps and rodding eye access points at every direction change. All above ground drainage to BS5582 and all underground drainage to BS8301. Provide seal plates both sides of pipe entry to avoid vermin entry.

Surface Water Drainage
To be proprietary 110mm diameter p.v.c. pipes flexible joined to fall 1:70 bedded in 100mm pea gravel. Pipes to discharge into 1200mm diameter soakaways sited 5000mm away from buildings.

Fascia and Bargeboards
To be 25 x 75mm PSE with 6 mm groove to accept 6mm thick exterior grade plywood soffit.

Ceilings
To all insulated roof ceilings provide 12.5mm Gyproc Duplex plasterboard of 10kg/m³ or similar and either 5mm skim or Artex finish. To remaining ceilings provide 12.5mm Gyproc plasterboard or similar with finishes as above.

Garage Floor Construction
100mm concrete oversite on 1200 gauge polythene d.p.m. on minimum 150mm, maximum 600mm well blinded and compacted hardcore. If garage is integral to house finished floor level to be 100mm below that of house. Wall d.p.c. to lap floor d.p.m. by a minimum of 50mm.

Ground Floor Construction
65mm sand/cement screed on 100mm Celotex insulation with perimeter insulation to screed on 1200 gauge polythene d.p.m. on 100mm concrete oversite on minimum 150mm, maximum 600mm well blinded and compacted hardcore. Wall d.p.c. to lap floor d.p.m. by a minimum of 50mm.

Lintels
All coded lintels as stated in Schedule or marked on plan to be by I.G. To be installed in strict accordance with manufacturers instructions. Form d.p.c. cavity tray above all lintels. To all exposed finiels i.e. not sheltered from overhanging eaves, etc. to have proprietary weepholes to joints of brickwork at approximately 450mm c/c. To be confirmed on site with Building Control Surveyor

Opening at eaves level to be L1/E lintels by I.G. or similar approved.

Sub-structure Walling
100 mm Class A dense concrete blocks. Bitumen felt d.p.c. to external walls 150mm above ground level. Weak mix infill to base of cavities to terminate 225mm below lowest d.p.c. level.

Brickwork below d.p.c. to be F.L. quality

All soakaways to be minimum 1m deep.

All external lintels to be insulated type.

All external joinery to be fully draught proofed.

Loft hatch to be draught sealed and latched shut.

Insulation in roof space to meet with insulation in external cavity walls to prevent cold bridging.

To all domestic floors to external perimeter walls provide 25mm thick insulation dressed up walls to prevent cold bridging.

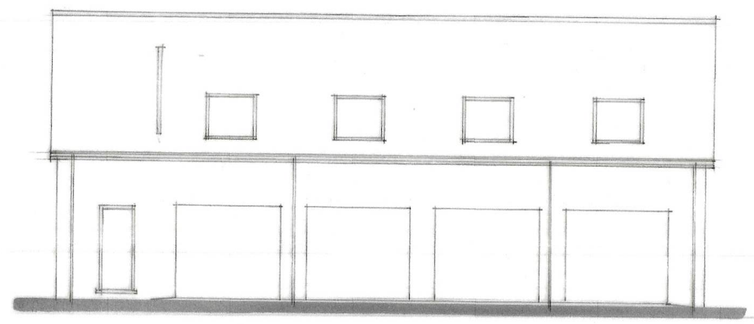
Seal all openings and joints to perimeter walls.

All doors, windows and any loft hatches to be effectively sealed and draught proofed.

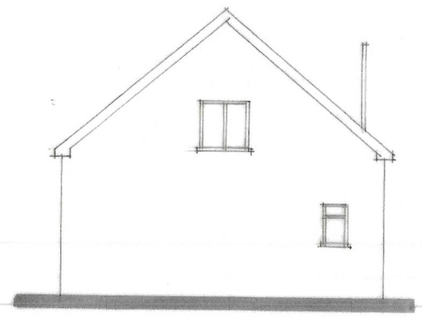
Provide a fibrous separating member between floor screed and insulation and provide chicken wire between insulation and screed.

First floor habitable rooms shall have means of escape windows with openings of at least 450mm wide x 450mm high and a minimum area of 0.33m². Escape windows to be within 1.1m of floor.

Smoke detectors to be to BS5839/6:2004, Grade D, Category LD3.



FRONT



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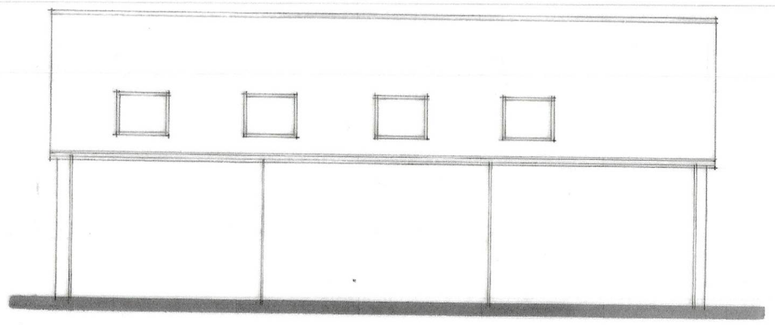

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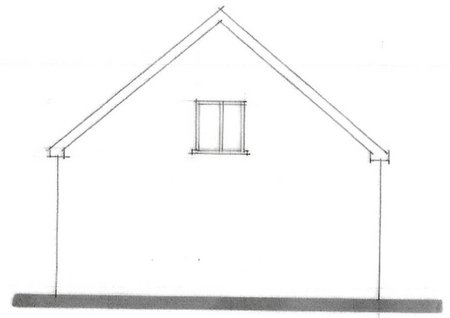

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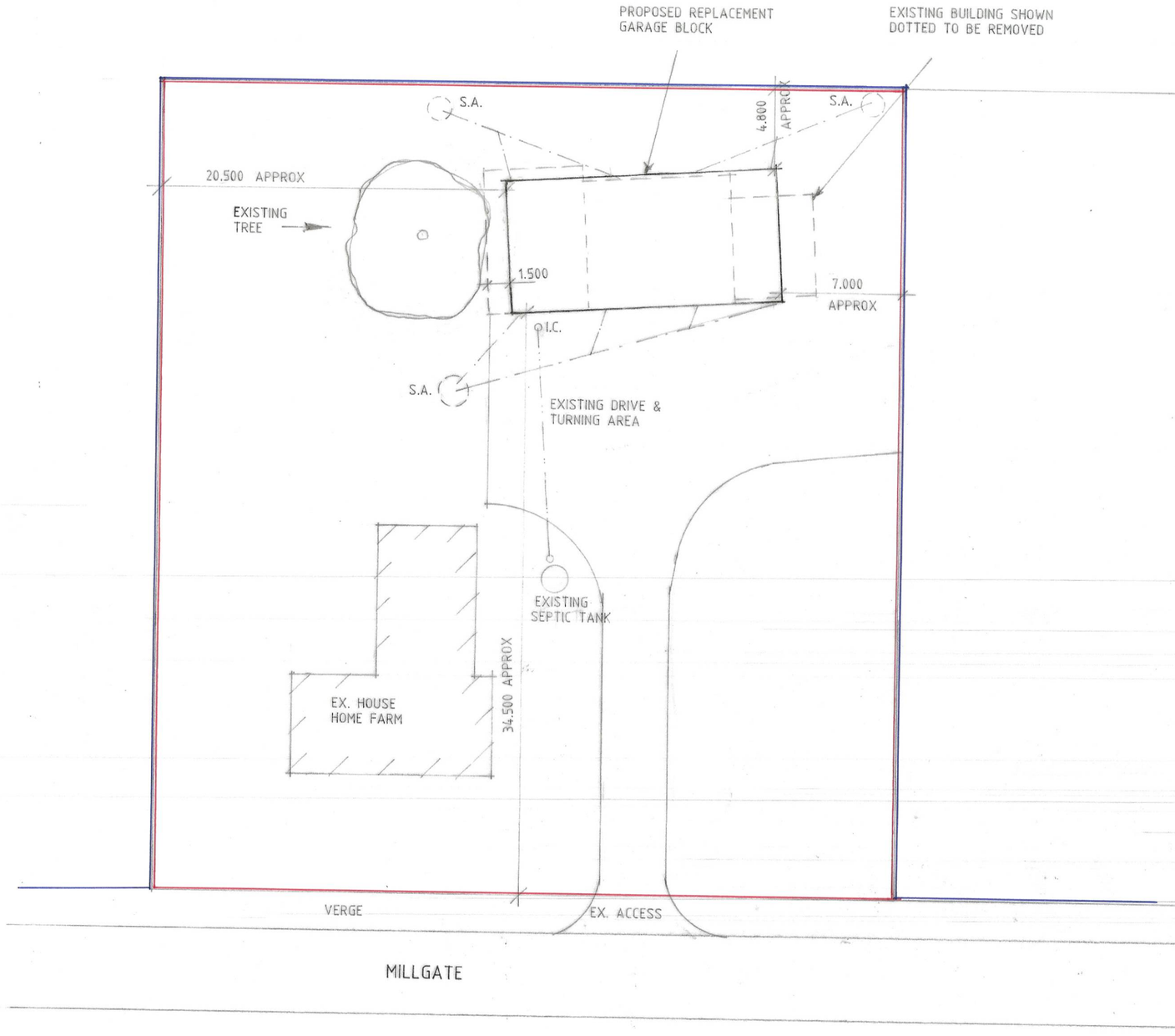

SITE LAYOUT

THIS DRG. TO BE READ IN CONJUNCTION WITH SD20-027/1

Foundations
As indicated on plan provide concrete strip foundations. To cavity walls provide 700mm wide x 225mm thick and to 100mm walls provide 450mm wide x 225mm thick, unless noted otherwise. To non-load bearing internal walls thicken out ground floor oversite concrete to 450mm wide x 200mm thick. Widen foundations at chimney breast accordingly and make 300mm thick. Foundations to be taken down to an approved firm base, subject to local authority specifications. Concrete to be ST3 grade unless noted otherwise. Proximity of existing and proposed trees are to be taken into account in accordance with N.H.B.C. chapter 4 when determining foundation depth.

Glazing
All windows and doors to be double-glazed with Pilkington 'K' glass or similar approved, to achieve either WER Band C or a 'U' value of 1.6W/m²K.

Internal Lighting
Provide energy efficient lights that only take lamps having a luminous efficiency greater than 45 lumens per circuit watt. Examples of lamps are fluorescent tubes and compact fluorescent lamps (note GLS tungsten lamps with bayonet cap or Edison screw bases).

Method of determining number of locations:

75% of all lighting to be energy efficient.

Excludes garages, lofts and outhouses.

Electrical Work
All electrical work required to meet the requirements of Part P (electrical safety) must be designed, installed, inspected and tested by a person competent to do so. Prior to completion of the works the council must be satisfied that either:-
a) an electrical installation certificate issued under a competent person's scheme has been issued
or
b) an appropriate electrical installation certificate has been issued for the work, and that it has been signed by a person competent to do so.

External Cavity Wall Lintels for 300mm Cavity Walls
IG type L1/S100 unless stated otherwise. To be confirmed on site with Building Control Surveyor.

Purge ventilation to windows
For a hinged or pivot window that opens 30° or more the height and width should be at least 1/20th of the floor area of the room.
For a hinged or pivot window that opens less than 30° the height and width should be at least 1/10th of the floor area.

Background Ventilation
Background ventilation is to be provided by trickle ventilators to the tops of windows. Use trickle vents offering 8000mm² per window head. Ventilation for whole extension to be 20,000mm²

Roof Insulation to Sloping Ceiling
To ceiling slope provide 50mm Celotex GA4000 between rafters and 70mm Celotex CA4000 below rafters with joints taped to create VCL + air leakage barrier batten air space + low emissivity – 12.5mm Knauf wallboard, or similar approved. All to give 0.18W/m²K.

Mechanical Ventilation
Mechanical ventilation systems are to be commissioned in accordance with Regulation 44 (where they can be tested and adjusted to provide adequate ventilation) and a copy of the commissioning notice is to be given to the local authority not more than 30 days after completion of the works.

External Wall Construction (300mm cavity)
100mm facing brickwork (see site plan for details)
100mm Cavity with ISOVER, HI-CAV 32 insulation
100mm inner skin of tarmac Hemalite blocks
Cavity wall ties to be stainless steel type spaced 900mm horizontally and 450mm vertically to BS1243:1978. Internal block walls to receive 10mm sand/cement render and skim. Robust details in accordance is T50,2001

Expansion joints should be included in walls at no more than the following centres:

Clay brickwork	10 – 12m
Lightweight concrete block/brick	6m
Dense concrete block/brick	7.5m
For unrestrained masonry such as parapets.	5 – 6m

Protection to Underground Pipes
Where pipes are not under road and have less than 600mm cover concrete paving slabs should be laid as bridging above the pipes on minimum 75mm pea gravel. If flexible pipes are under a road and have less than 900mm cover reinforced concrete bridging should be used instead of paving slabs. Provide compressible material below slab/concrete.

Inspection Chamber Construction
Proprietary polypropylene inspection chambers bedded on 150mm concrete. Form protective 255mm thick concrete collar around head of inspection chamber with 300mm projection from cover. Covers to be Grade C light duty unless inspection chambers are in driveways where Grade B medium duty covers are to be used.

First Floor Walling
Provide 50 x 75mm timber vertical studs at 400mm c/c to be constructed of 50 x 75mm timber head and sole plates. Provide 12.5mm Gyproc plasterboard of 10kg/m³ density and skim finish to both sides. Provide to airspace proprietary acoustic insulation. Timber stud partitions running parallel to joist direction to be built off 2 no. floor joists fixed together. Provide 1 no. joist either end of stud partition joist beam to fix flooring.

Roof Construction
Roof tiles (see site plan for details) on 38 x 25mm softwood treated timber battens on underfelt to BS747 (Type 1F) lapped 150mm horizontally and 100mm vertically. Prefabricated roof trusses at 600mm c/c and pitch as stated in accordance with BS5268, 1985. Provide 25 x 100mm timber bracing and fix in accordance with truss manufacturers instructions. All trusses and gable ladders (if any) to be strapped to 50 x 100mm timber wallplate, the gable wall at verges and ceiling level with 30 x 5mm mild steel anchor and lateral restraint straps to span minimum 3 no. trusses at a maximum of 1200mm c/c. At strap positions provide pack and noggins to trusses. Main contractor to supply local authority building control with roof truss calculations 28 days prior to erection on site. Provide concrete padstones at compound truss supports where required by roof design. Water storage tanks to be installed in accordance with Technical Bulletin No. 41.T.P.A. with timber support members to span 4 no. trusses.

B - INF. ADDED - 9.11.20
A - ALTS - 12.10.20

Status DESIGN
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED REPLACEMENT GARAGE BLOCK AT HOME FARM, MILLGATE, WHAPLODE FOR

MR. V. MUSTAFA

SITE PLAN / ELEVATIONS

1:200	1:100	SD20-027/2
OCT-20		B.GILHAM.

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