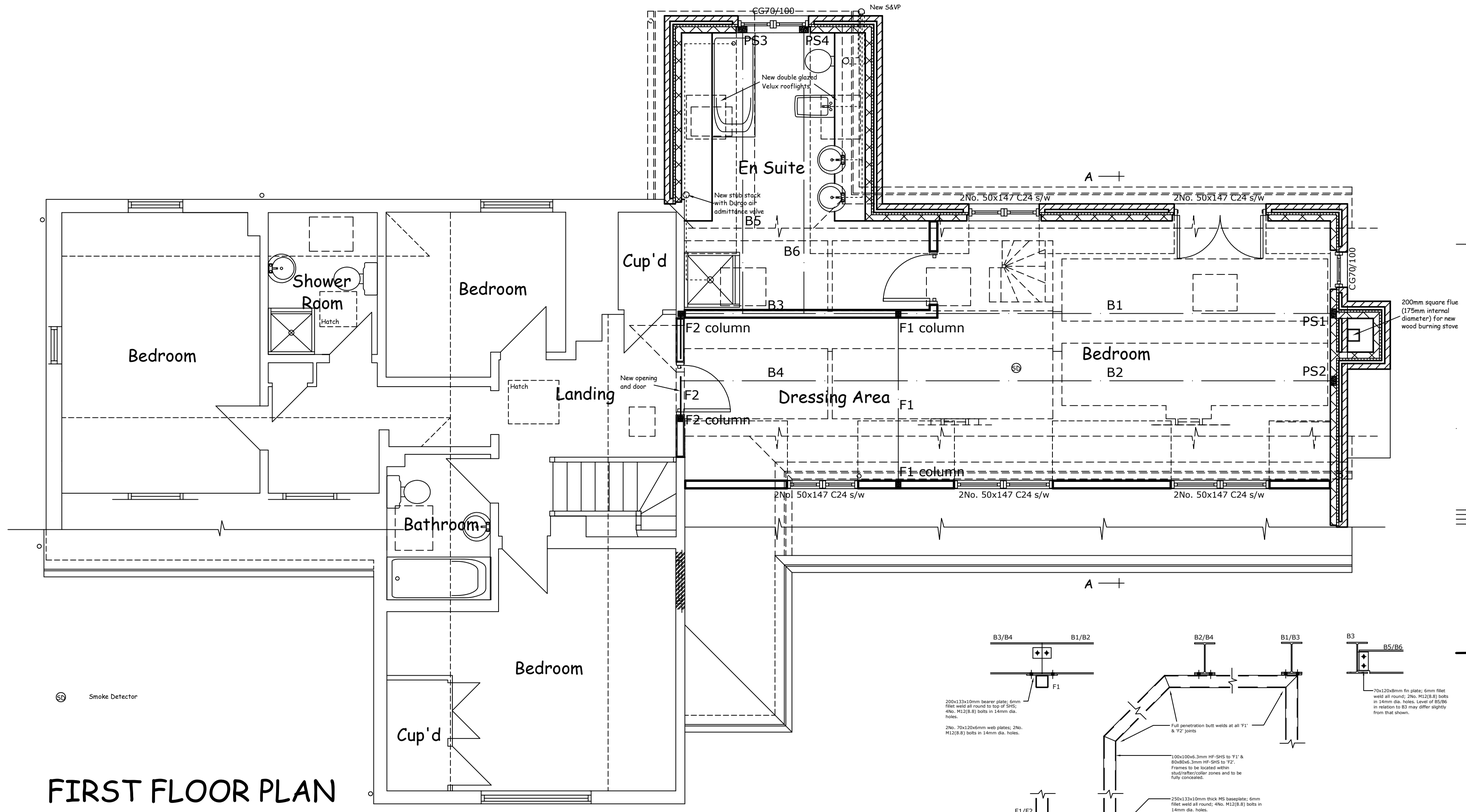
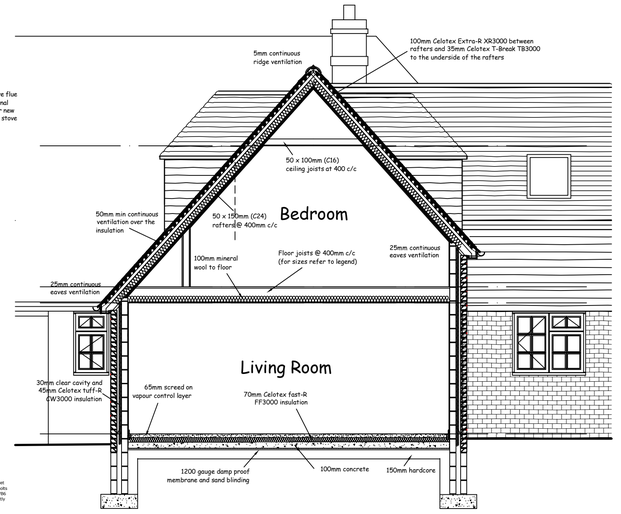


FIRST FLOOR PLAN

STEELWORK CONNECTION DETAILS

1:20



SECTION A-A

GENERALLY

All dimensions shown are in millimetres unless otherwise shown. They should not be scaled from the drawings and must be checked on site, by the Contractor, from the actual work wherever possible.

These notes shall be read directly in conjunction with JMLA's other relevant drawings and the Architect's details, together with any subsequent revisions and amendments.

The Contractor shall be responsible for all temporary and permanent support works necessary.

Steelwork shall be grade S275 to BS EN 10 025 and shall be given two coats of zinc phosphate primer. All steelwork placed below DPC level (e.g. base of posts) shall be encased in concrete. All further finishes are to be to Architect's requirements.

Padstone concrete shall be a minimum grade C20 to BS8110 with a maximum aggregate size of 10mm graded to BS882. A nominal 1:2:4 OPC mix to CP 114 would suffice.

Secure beams into place by dry-packing onto padstones using 1:3 semi dry mortar mix.

New steel and other structural elements, where not built into floors etc., shall be encased in two layers of 12.5mm plasterboard in order to give minimum 1/2 hour fire resistance.

Timber shall be of the grade of softwood stated all in accordance with the requirements of BS5268. It shall be dry, free from defects, and pre-treated with preservative.

All existing foundations, walls and lintels that are subject to increased loads are to be exposed for inspection by the District Building Control Officer PRIOR to the general commencement of works and underpinned, strengthened or replaced as may be necessary. We agree to a conditional consent for this item.

LEGEND

J1 = 75x220mm C24 s/w 1st floor joists @ 400mm crs.

J2 = 2No. 75x220mm C24 s/w joists spiked together.

J3 = 50x220mm C24 s/w 1st floor joists @ 400mm crs.

J4 = 2No. 50x220mm C24 s/w joists spiked together.

B1-B4 = 203x133 UB25 steel purlin beams. Bolt 50x100mm C16 s/w plates to top flanges and birdsmouth rafters over. Tie ceiling collars under bottom flanges.

B5, B6 = 152x89 UB16 steel purlin beams. Bolt 50x100mm C16 s/w plates to top flanges and birdsmouth rafters over. Tie ceiling collars under bottom flanges.

B7 = 203x133 UB25 steel beam positioned within 1st floor zone.

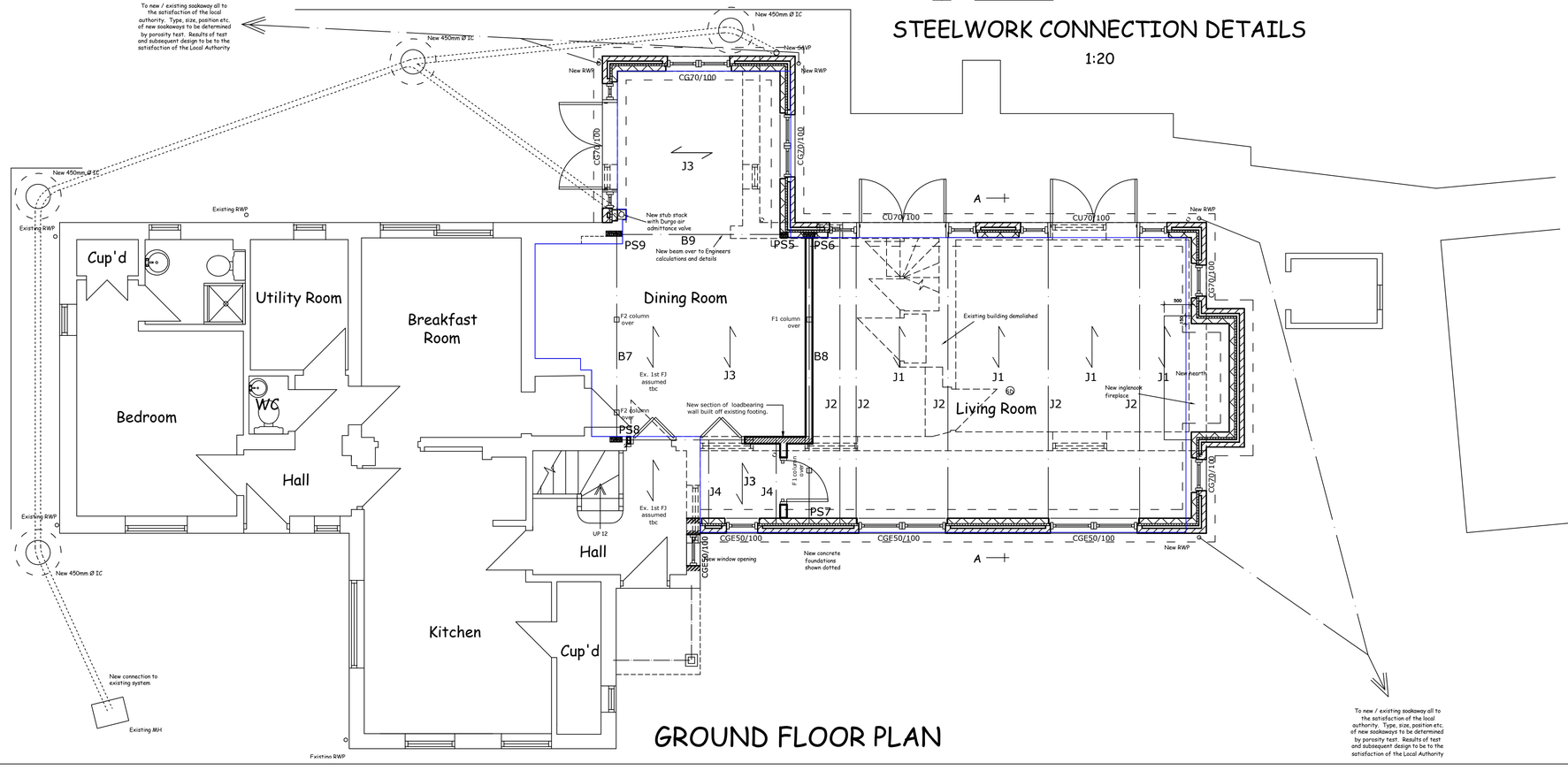
B8 = 203x133 UB30 steel beam positioned within 1st floor zone.

B9 = 178x102 UB19 steel beam positioned within 1st floor zone. Block in web with s/w and hang joists off one side.

PS1-PS5 = 100mm bearings onto 100x150x65mm deep mass concrete padstones.

PS6-PS8 = 100mm bearings onto 100x215x150mm deep mass concrete padstones.

PS9 = 100mm bearing onto 100x300x150mm deep mass concrete padstone.



GROUND FLOOR PLAN

Drawing to be read in conjunction with Structural Engineers calculations and details prepared by JMLA tel no 01424 213311 (Ref 2007107)

FIRE PRECAUTIONS
Mains operated interlinked smoke alarms with battery back up in locations as shown all in accordance with BS 5839-6: 2004.

Do not scale from the drawing. All dimensions to be checked on site prior to commencement of works.

FOUNDATIONS
600mm x 230mm concrete foundations under 278mm wall Minimum 1000mm deep formation level laid to comply with relevant clauses of BS 8004:1986 to suit ground conditions, all to local authority approval. Clayboard to walls and foundations as necessary.

BELOW GROUND DRAINS
100mm PVC drain in and on 150mm beach surround drains laid at 1:40 fall. Marley 450mm diameter Inspection Chambers. Drains under building to be in 150mm beach surround. Concrete plank lintels to walls over drains.

ABOVE GROUND DRAINS
100mm PVC S&VP as one pipe system. S&VPs to terminate 900mm (min) above head of opening window within 3m. S&VPs/stub stack to be clad using one layer of 12.5mm Gyproc Wallboard. 100mm stub stack with Durgo air admittance valve. PVC traps and wastes etc. 75mm deep seal traps to 40mm wastes from sink and bath. Sink to have branch ventilating pipe to external air within 300mm of trap. 50mm deep seal trap to WC. Traps to BS 3943:1979 and wastes to BS 5255:1976 tested and fitted to local authority approval with correct falls. Traps fitted with anti-syphon valves. Boss connections as required. Cleaning eyes to traps and rodding points to discharge pipes as necessary.

GROUND FLOOR
65mm screed. Polythene vapour control layer. 70mm Celotex fast-R FF3000 insulation with perimeter insulation to screed and taped joints to give a U value of 0.22 W/m²k. 100mm concrete. 1200 gauge DPM. 25mm sand blinding. 150mm hardcore. DPM lapped to DPCs in walls etc. (100mm) consisting of materials in accordance with BS 743: 1970 and design and installation in accordance with BS 8215:1991. Floor tamped and set level to be coincident with existing.

FIRST FLOOR
25mm T&G floor boarding. Floor joists (see legend for sizes) C24 @ 400 c/c with 2 sets of strutting at third span positions. 12.5mm plasterboard and set. Joists fixed into walls with Catnic TWR joist hangers to give lateral restraint. 100mm Rockwool Rollbatt or Timber Roll between floor joists.

WALLS
277mm cavity wall consisting of 102mm brickwork to match existing, 30mm cavity, 45mm Celotex tuff-R CW3000 and 100mm Celcon solar blockwork (or similar approved) inner leaf, to give a u value of 0.29 W/m²k. Catnic stainless steel wall ties @ 450mm vertical and 900mm horizontal c/c (max.) reduced to 300c/c around openings. Thermabate insulated cavity closer to head, jambs and cill of windows and doors to prevent cold bridge. Cavities closed at roof level. 100mm x 50mm wallplates. 15mm lightweight plaster finish internally. Plain concrete tile hanging, felt, battens, etc. Furfix or similar wall connectors at the junction of where new meets existing installed fully in accordance with manufacturers recommendations and specifications. Provide a pre-compressed sealing strip or polymer-based sealant applied behind the wall connector and seal the junction perpend with a pre-compressed sealing strip or polymer-based sealant all in accordance with manufacturers recommendations and specifications.

PARTITIONS
100mm x 50mm vertical studs @ 400c/c with noggins etc. @ 1200mm staggered c/c. 9.5mm Gyproc Wallboard both sides with 2mm Thistle Multi-Finish, set for decoration. Fibreglass insulation for acoustic absorption between studs. Joists doubled under stud partitions, shower and bath etc.

SERVICES
Extend existing system to supply hot and cold water to the sanitary fittings etc., generally 15mm ø hot and cold to basins and bidet and 15mm ø cold to WCs and 18mm ø hot and cold to baths. All new internal supply pipework to be copper tubing run in neat straight runs, well clipped with holder bats etc. All pipework is to be recessed in walls and floors etc.

ELECTRICS
New electrics installed and connected to ex. mains and ring circuits to IEE Wiring Regulations (BS 7671). All electrical work required to comply with Part P (electrical safety) must be designed, installed, inspected and tested by a person competent to do so, or inspected by the local authority if it has been installed by a non qualified person. On completion, a copy of the appropriate BS 7671 certificate should be issued by a person competent to do so, and a copy provided to Building Control. Provide energy efficient lighting to one in four lamps within the extension which can only take lamps having a luminous efficacy greater than 40 lumens per circuit watt.

HEATING
Heating system extended as necessary, being controlled by individual thermostatic radiator valves. Extending of services to conform with the Domestic Heating Compliance Guide.

ACC

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TITLE
Proposed Extension
Plans as Proposed

ADDRESS

DRAWING NO 06~4009~03

SCALE 1:50, 1:20

DATE July 2006

ISSUE
A: 30.12.06 ~ Section and Building Regulation notes and details added.
B: 08.02.07 ~ Minor Building Regulation alterations and additions.