

#### C.D.M. Regulations 2015

In line with the above regulations we are obliged to inform the Client of the risks that may be encountered in the construction of these works. All design work has been carried out with Health and Safety aspects given full consideration.

Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the design.

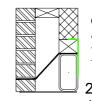
We would also respectfully remind the Client of his obligations to take all reasonable in ensuring that only competent contractors who have a valid safety policy are employed.

## ALL DIMENSIONS TO BE CHECKED ON SITE BY STEEL CONTRACTOR PRIOR TO BEGINNING ANY STEELWORK FABRICATIONS

EXISTING WALLS & FLOORS TO BE ADEQUATELY PROPPED AND SUPPORTED BOTH SIDES WHILE THE NEW BEAMS ARE LIFTED INTO PLACE. PROPS AND SUPPORT TO BE DESIGNED AND INSTALLED BY SUITABLE CONTRACTOR

RESPONSIBILITY FOR THE TEMPORARY SUPPORTS OF THE STRUCTURE DURING THE WORKS, RESPONSIBILITY OF THE BEAM INSTALLATION REMAINS WITH THE CONTRACTOR AT ALL TIMES.

ALL ELEMENTS OVER 20KG MUST REQUIRE SPECIALIST HANDLING TECHNIQUES



GALV. SOLE PLATE ANCHOR AT 900mm % 75x100mm TIMBER WALL PLATE

200x100x8 RHS + 6mm LEDGER PLATE

RHS BEAM/LINTEL

### **NOTES**

This drawing to be read in conjunction with the <u>System Type B</u> Architects and Service Engineers (M&E) drawings and Blast Cleaning after Fabrication: the appropriate specifications.

dimensioned plans, elevations, etc. refer to Architects microns (minimum weight of zinc to be

Precast/prestressed concrete beam and block floors (and any associated works) to be manufactured and Unless special protection is provided against installed in strict accordance with the requirements of corrosion, all hollow members shall be sealed i BS.8110: Part 1, and to the satisfaction of the order to prevent the access of moisture to inside

Infill concrete blocks shall be 100mm thk. and comply the member is galvanised. with BS. EN. 77--3 and be suitable for use in floors. Blocks to have a minimum compressive strength of 7.3N/mm<sup>2</sup> and a maximum density of 1950kg/m<sup>3</sup>.

PC floors are to be designed to resist the most onerous combination of the following service/unfactored

finishes 1.80 screed insulation 1.90 kN/m<sup>2</sup> DEAD

communal area

PC floors to have 100mm minimum bearing onto Timber to be preservative treated in accordance masonry walls with a suitable dpc provided below. The with BS 5368: Bast 5. The above of preservative Contractor is to carry out all necessary preparatory with BS.5268: Part 5. The choice of preservative works, as required by the pc floor manufacturer, and must not, in any way, affect the performance of ensure that the supporting masonry has matured the timber or any of its components (plate (gained sufficient strength) prior to installation.

underside/soffit of floor beams and the solum preservative. (ground); the ground to be treated with a suitable weed killer prior to installation of the floor.

brushed into all joints to prevent subsequent products may be proposed subject to full material

All masonry to comply with the requirements of BS.5628: Parts 1 and 3 as appropriate; workmanship to comply with BS.8000: Part 3.

Masonry units follows:

CLAY bricks to comply with BS.EN 771-1, designated FL', with water absorption of 7—12%. Density 2000kg/m<sup>3</sup> and with a minimum compressive strength of  $35N/mm^2$ .

CONCRÉTE blocks, 100mm thick, complying with BS.EN 771—3. Density 1350kg/m<sup>3</sup> and with a minimum compressive strength of 7.3N/mm<sup>2</sup>. (Tarmac Topblock HEMELITE' or similar approved).

Masonry units — above dpc — to be laid in a M4/(iii) mortar throughout unless noted otherwise; below doc use M6/(ii) mortar.

Cavity walls are to be effectively tied with proprietary 🗨 Preliminary stainless steel type 2 wall ties in accordance with BS.DD140: Part 2 (Ancon 'RT2' or similar approved). Ties to be 250mm long and spaced at 450mm vertical and 900mm horizontal centres in a staggered/diamond pattern. Additional ties are required adjacent openings, reveals, joints etc. and shall be positioned at 225mn vertical centres located within 225mm of the edge.

Unless otherwise specified, all hot rolled structural steel shall be grade S275 and shall comply with BS EN 10025 and BS EN 10210—1. Hot rolled sections shall comply, tolerances and dimensions, with the appropriate Standard.

All welding consumables for metal arc welding of steels shall comply with the appropriate Standard with all welders approved/certified to BS EN 287-1. All welds to be continuous 6mm full profile fillet welds unless

ne Fabricator is responsible for obtaining all necess particulars in order to prepare all shop detail drawings.

Surface preparation and painting of steelwork shall be in accordance with the general principles set out in BS EN 12944. Unless otherwise specified, blast cleaning shall comply with BS.7079. The standard of cleaning shall be the arade indicated below obtained with the use of a suitably graded abrasive.

#### System Type A

Blast Cleaning after Fabrication: -

Immediately after blast cleaning, to grade SA2½, the steelwork is to be treated by painting with one coat of zinc phosphate alkyd high-build primer, 80 microns

Blast Cleaning before Fabrication: -

Immediately after blast cleaning the steelwork, to grade SA2½, is to be treated by painting with one coat of zinc phosphate alkyd high-build primer, 20 microns DFT. Fabrication must not proceed until the coating has dried for a minimum of 24 hours. After fabrication. all damaged paint to be made good and the steelwork to be thoroughly cleaned, degreased etc. A single coat, 60 microns DFT, of zinc phosphate alkyd high—build rimer to be applied following cleaning.

After blast cleaning, to grade SA.2, all steelwork to be hot dipped galvanised, in accordance with Work only to figured dimensions, do not scale. For full BS EN ISO 1461 with a minimum DFT of 140  $1000g/m^2$ ).

> of the member. If galvanised, hollow members shall have vent holes, these shall be sealed after

The erection of the steelwork/structural frame shall always be planned and carried out to ensure safe working conditions.

Unless otherwise specified by the Engineer, the accuracy with which the steelwork is erected shall be as specified in Section 7 of BS.5950: Part 2. Cold—formed steel members shall be erected within the tolerances stated in BS.5950: Part 7. General timber 'work' to comply with BS.5268 Part 2: 2002, in particular Section 7 and to the 2.00 kN/m² IMPOSED Fart 2. 2002, ... satisfaction of the Engineer.

fasteners, nails etc.). Where any subsequen cutting has been carried out after treatment, al PC floors to have 250mm minimum void between sawn ends must be treated with the relevan

Upon completion of the floor installation the whole area is to be 'wetted' and a 3:1 sharp sand/cement dry grout (or as required by the manufacturer) is to be brushed into all icits to be accordance with the manufacturer's instructions and recommendations. Alternative specifications being submitted for approval by the



Drawing Stage Drawing Status Draft ● Comments Tender Information Construction Issued As Built

This drawing is not authorised unless signed as checked & approve

Client

## **Broughton-in-Amounderness Parish Council**

Job title

# **Toll Bar Cottage 476 Garstang Road Broughton**

Drawing title

## **Steelwork Details Extension**



**CONSULTING ENGINEERS** 

**CIVIL • STRUCTURAL** 

**GEOTECHNICAL • ENVIRONMENTAL** 

WMI

Chkd Appvd date drawn 1:50, 1:20 @ A2 31.03.20

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19192/04 DRAWING No