BTS – IV (SS) – 09.14 – 0727 Reg. No. | | | | | | | | | |

B

B. Tech. Degree IV Semester Special Supplementary Examination September 2014

CE 1406 (A/B) CIVIL ENGINEERING DRAWING

(2012 *Scheme*)

Time: 3 Hours Maximum Marks: 100

(Any missing data may be assumed suitably)

I. Draw to a suitable scale the front elevation, cross-sectional plan and cross-sectional elevation of a fully panelled window for a window opening of 1200mm × 1100mm (30)

Window frame – 100mm × 75mm

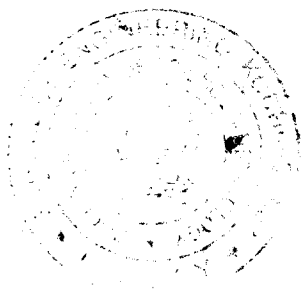
Size of styles and rails 75mm × 40mm

Thickness of panel boards – 25 mm

OR

II. Draw the elevation of a king post truss suitable for a 6000 mm clear span between two walls of 200 mm thickness each. The roof is of flat tiles. Also show the details at king post and the beam. (30)

III. Draw the top and front view of a two bedroom house, the line plan of which is shown in figure. Also draw the section at AA. (70)



Specifications

Foundation – Depth below GL = 1000 mm. Width of cement concrete footing 1:4:8 is 900 mm. Thickness of concrete footing is 100 mm. There are two footings of brick masonry in CM 1: 5. The first footing is of width 500mm and height 400 mm. The second footing is of width 400 mm and height 500 mm.

Basement – Height above GL 450 mm including flooring of 150 mm thick in cement concrete 1 : 4: 8, flooring is plastered smooth in CM 1:3, 12 mm thick. Basement is filled with red earth. Provide steps of rise 150 mm and tread 250 mm. Brick work in C.M. 1:5, 300 mm thick.

(P.T.O)

Super structure – Brick work in C.M. 1:6, 200 mm thick. Height of wall 3000 mm

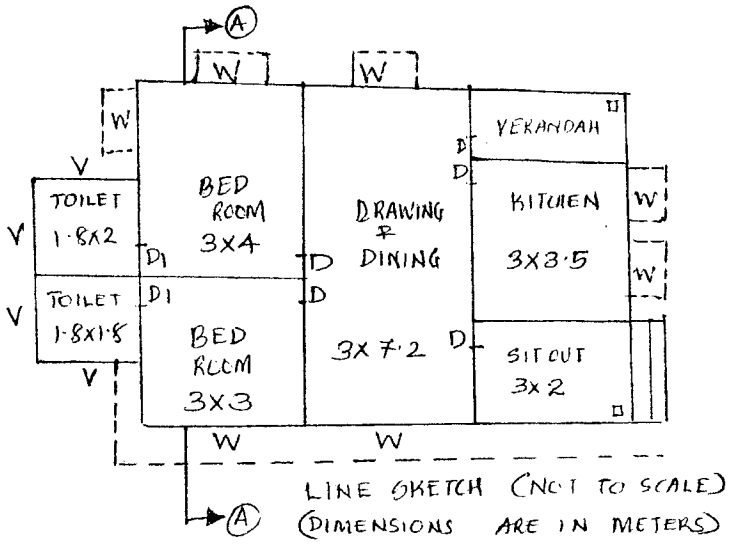
Roof – RCC slab 100 mm thick of mix 1:2:4

Sunshade – provide sunshade of width 600 mm extending by 150 mm on either side of door and window.

Parapet – provide parapet in B.W in C.M. 1:8
200 mm thick and 600 mm height projecting 100 mm on outside.

Windows – panelled windows 1000×1200mm

Doors – D – Panelled doors 1200×2000mm
D_1 – Panelled doors 900×2000mm
V – Ventilator 800×600mm



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