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Name: \_\_\_\_\_ Index No: \_\_\_\_\_ / \_\_\_\_\_

2306/304  
 MEASUREMENT OF BUILDING AND CIVIL  
 ENGINEERING WORKS  
 Oct./Nov. 2013  
 Time: 3 hours

Candidate's Signature: \_\_\_\_\_

Date: \_\_\_\_\_



THE KENYA NATIONAL EXAMINATIONS COUNCIL

**DIPLOMA IN QUANTITY SURVEYING**

MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORKS

3 hours

**INSTRUCTIONS TO CANDIDATES**

*Write your name and index number in the spaces provided above.*

*Sign and write the date of examination in the spaces provided above.*

*You should have the following for this examination:*

*Dimension papers;*

*Pocket calculator;*

*A copy of the standard Method of Measurement of Building and Associated Civil Works for Eastern Africa;*

*A copy of the Civil Engineering Standard Method of measurement.*

*This paper consists of FIVE questions in TWO sections; A and B.*

*Answer THREE questions, choosing TWO questions including question 1 from section A and ONE question from section B.*

*Question 1 carries 40 marks while the rest carry 30 marks each.*

*Maximum marks for each part of a question are as shown.*

*Candidates should answer the questions in English.*

**For Examiner's Use Only**

Section	Question	Maximum Marks	Candidate's Score
A			
B			
TOTAL SCORE			

This paper consists of 16 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.



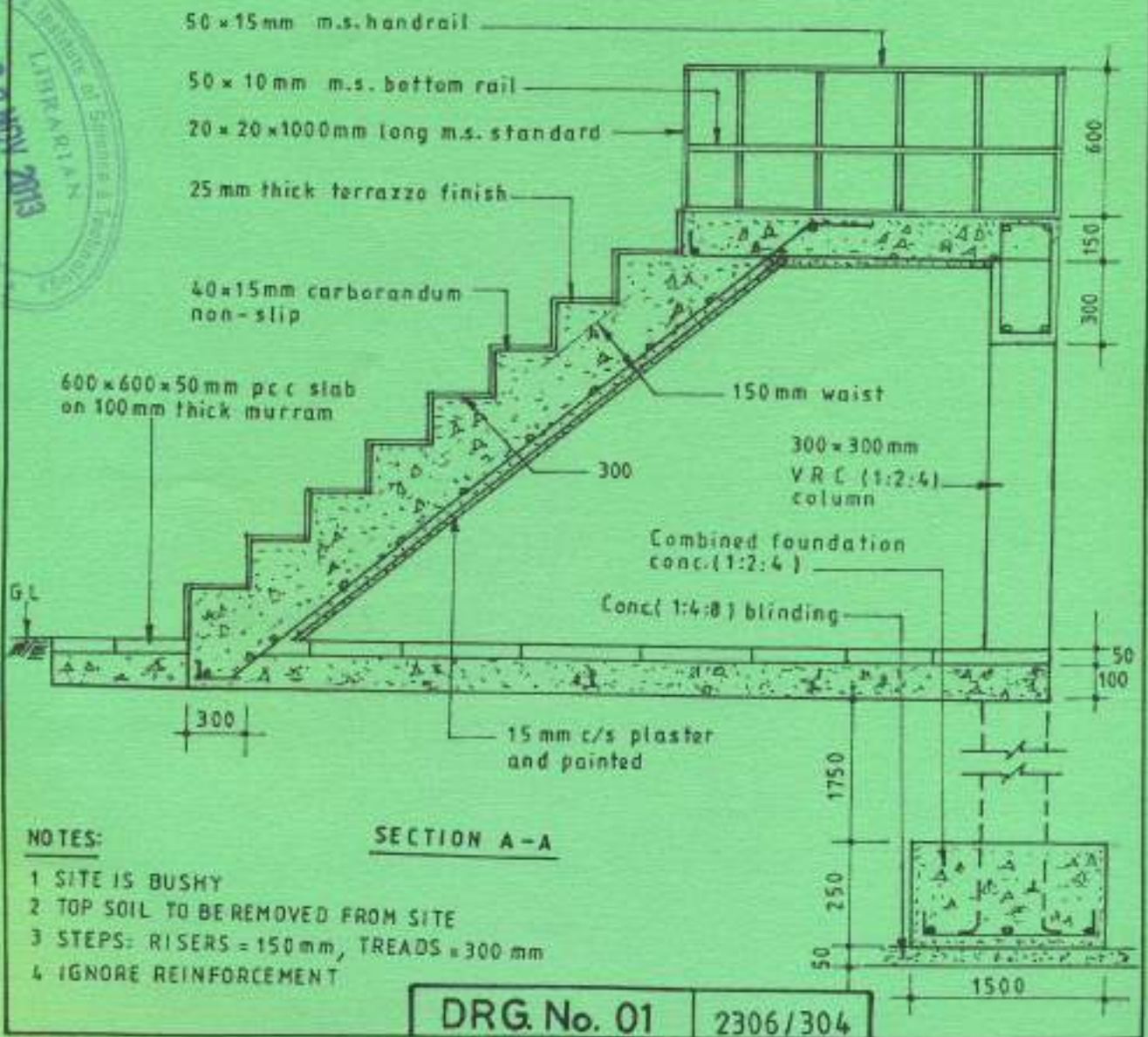
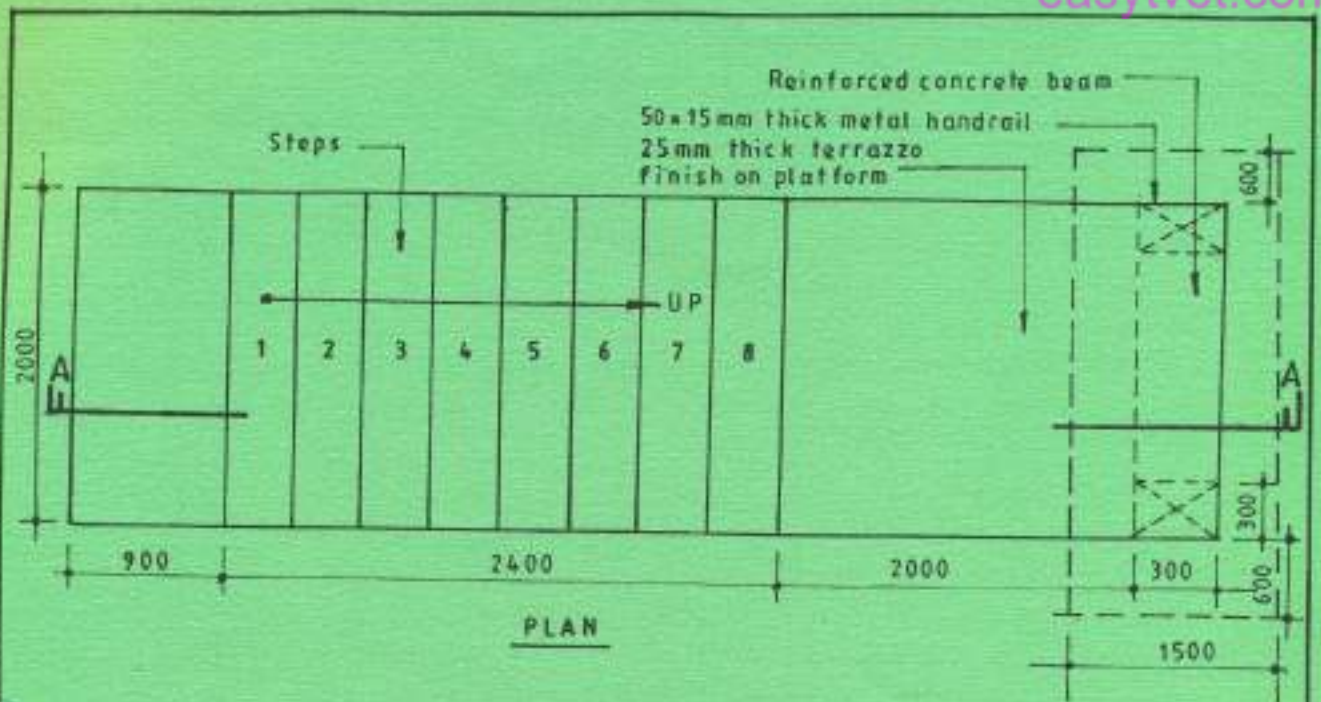
SECTION A

*Answer question 1 (compulsory) and any other ONE question from this section.  
Use The Standard Method of Measurement of Building and Associated Civil Works for Eastern Africa.*

1. Take off all quantities for the 'Plat form' works shown on drawing number 01. (40 marks)





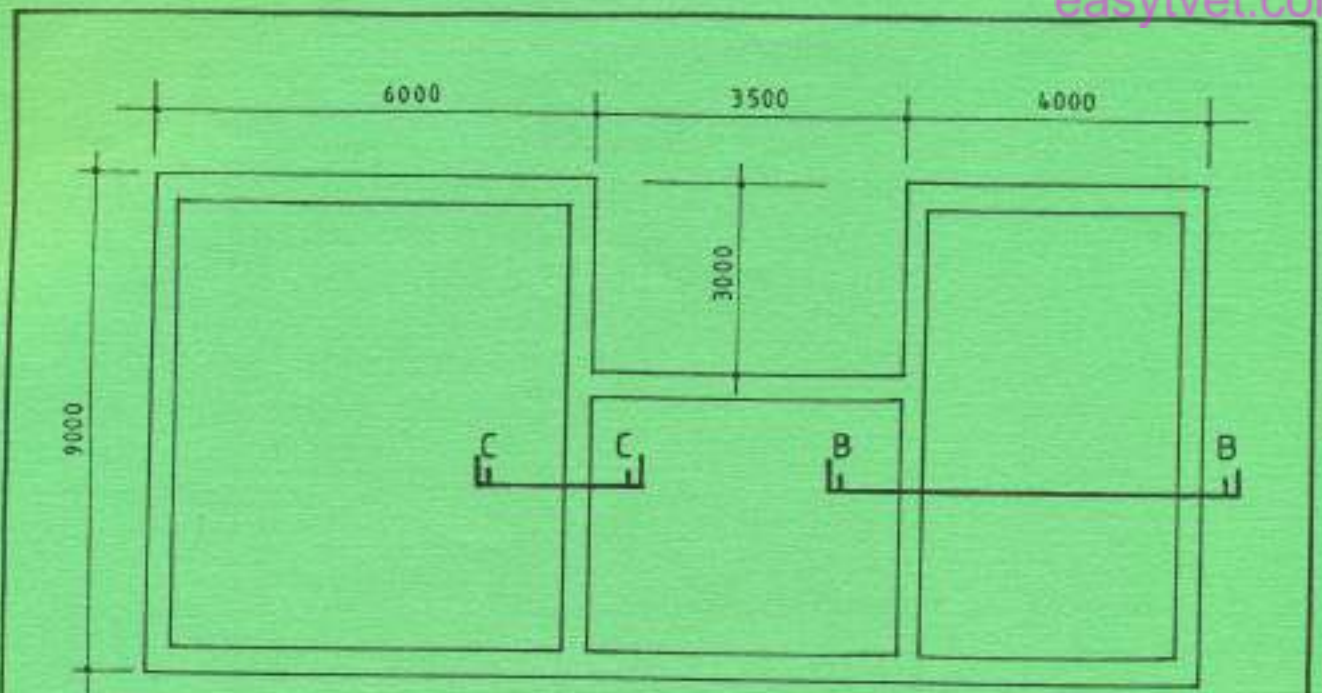




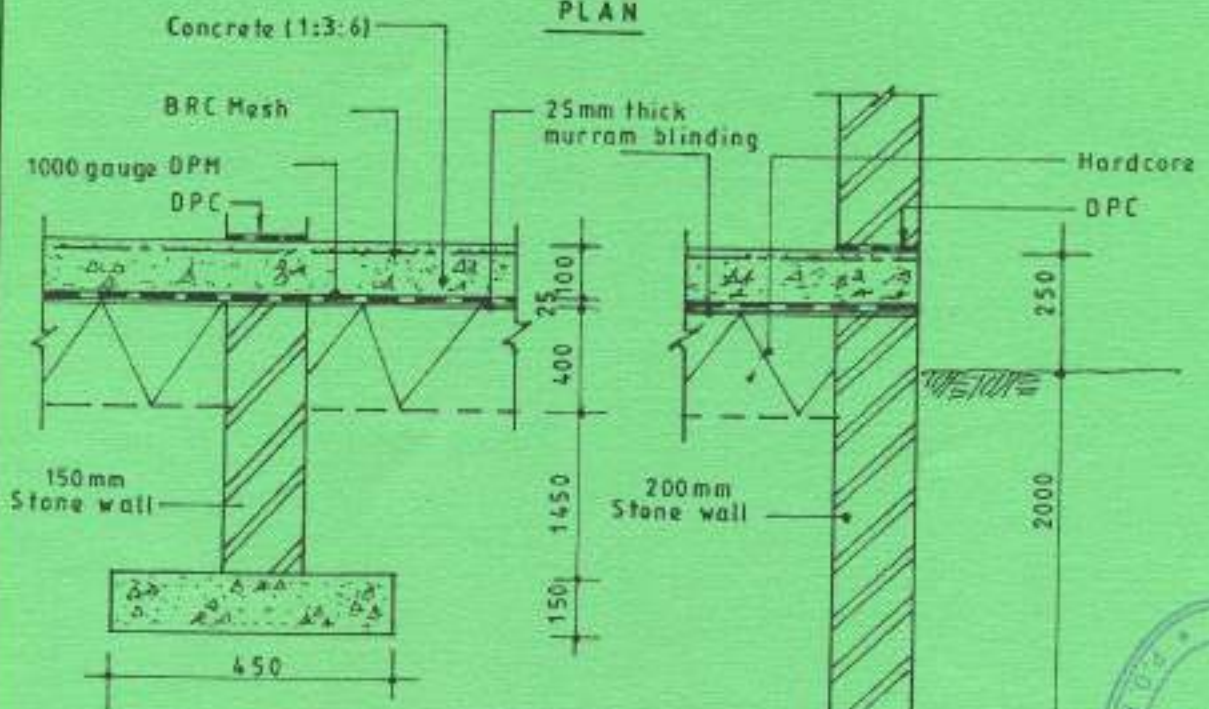
2. Take off all quantities for the substructure works shown on drawing number 02, up to and including the damp proof course. (30 marks)



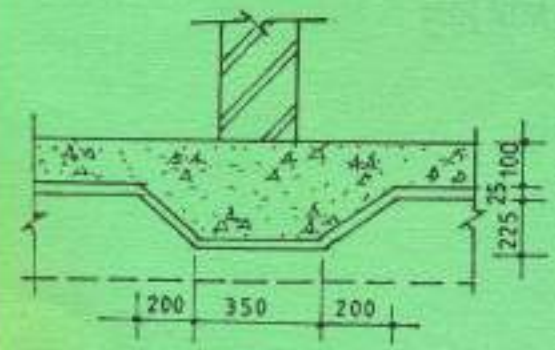




PLAN



SECTION B - B



SECTION C - C

- NOTE:
1. SITE IS CLEAR
  2. TOP SOIL IS 150 mm Av. DEPTH



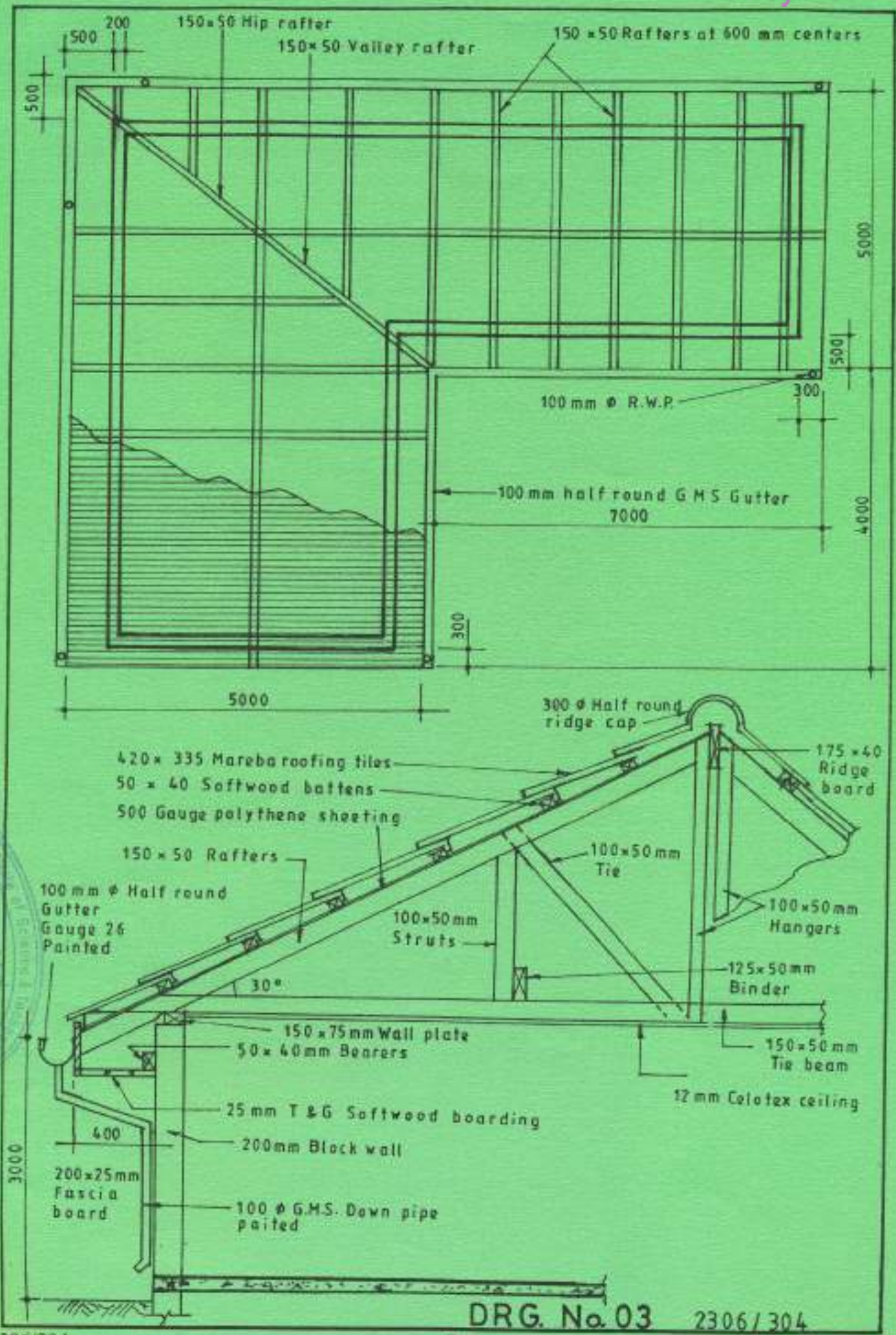
DRG. No. 02      2306/304



3. Drawing number 03 shows the plan and section of a pitched roof. Take off all quantities for the roof including the rainwater goods. (30 marks)







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Turn over



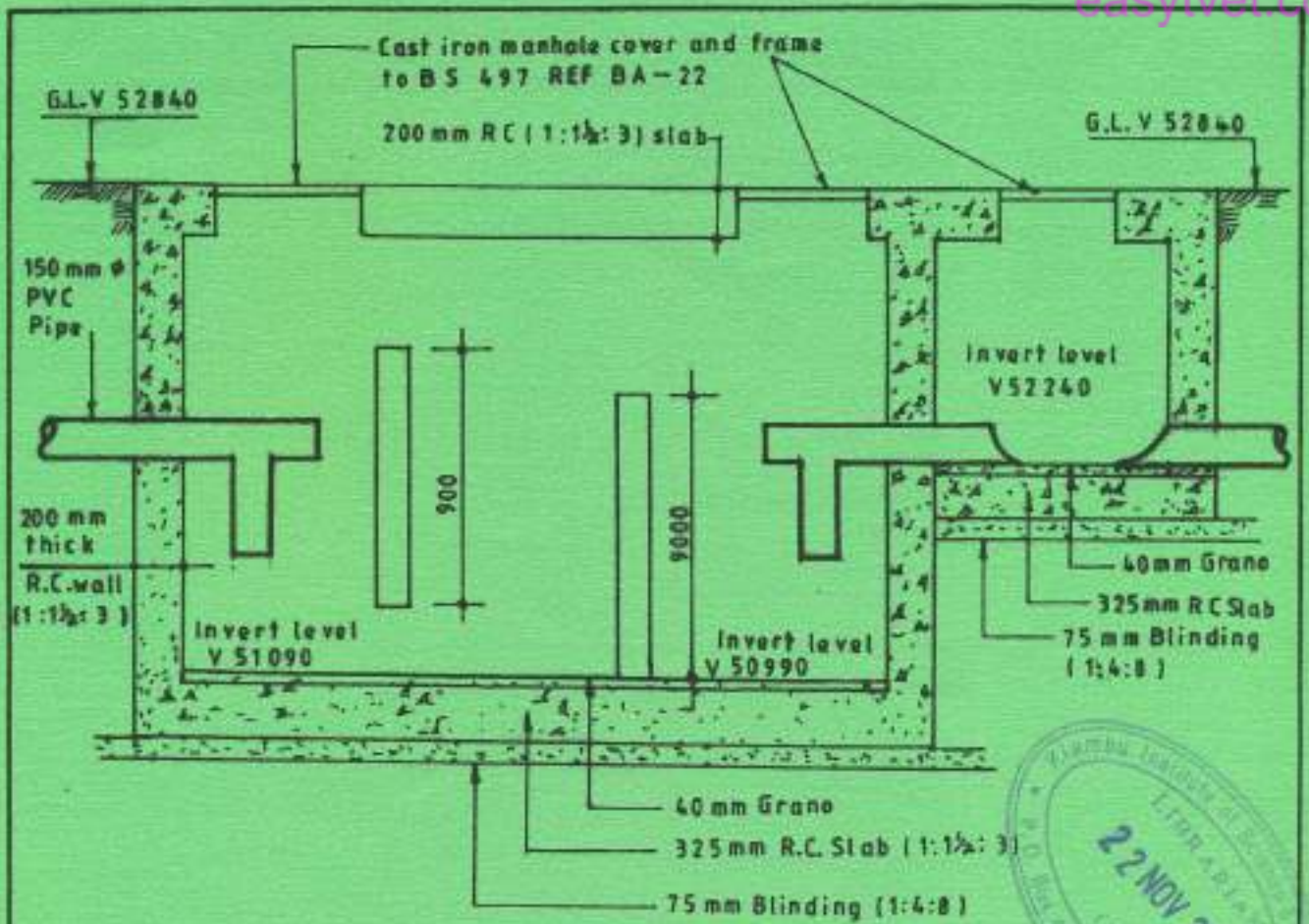
**SECTION B**

*Answer any ONE question from this section.*

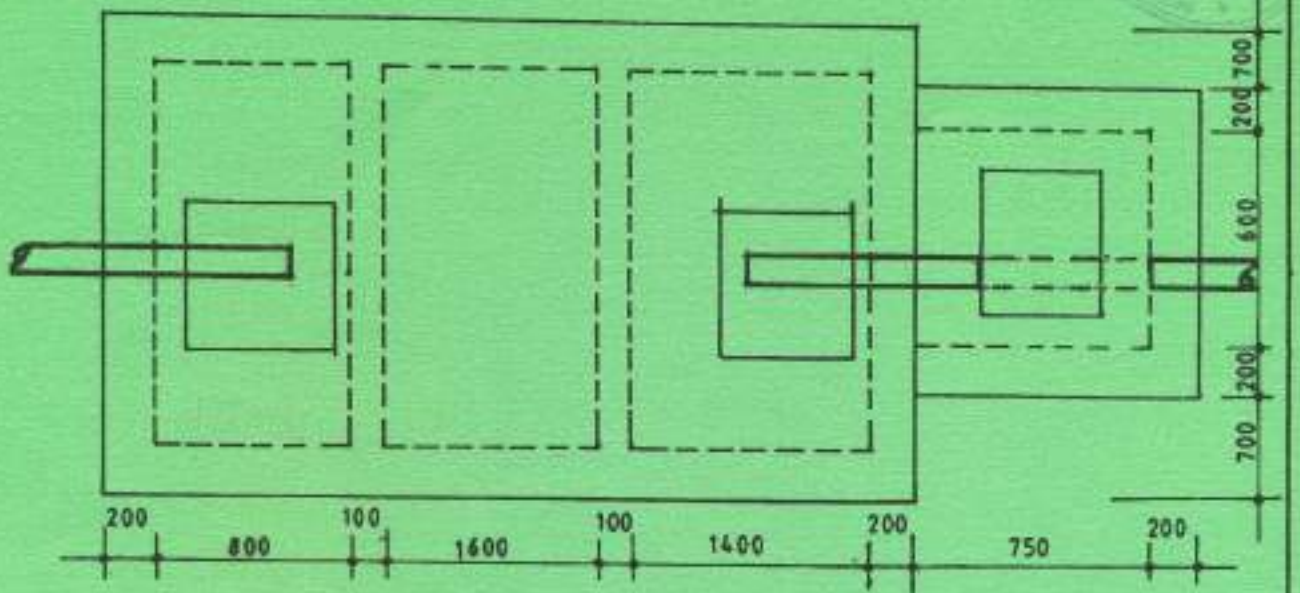
4. With reference to drawing number 04 take off all quantities for the septic tank. Use the Civil Engineering Standard Method of Measurement (CESMM). (30 marks)







SECTION E-E



**SPECIFICATIONS:**

1. TOP SOIL TO BE REMOVED 200mm THICK
2. IGNORE REINFORCEMENT
3. ALL CONCRETE IS INSITU
4. GROUND LEVEL - 52840

DRG.No. 04 2306/304



5. (a) Explain the following terms as used in measurement giving **two** examples of each:
- (i) extra over items;
  - (ii) spot items;
  - (iii) deemed to be included items.
- (9 marks)
- (b) Describe the following civil engineering contracts giving a situation where each may be used:
- (i) lumpsum;
  - (ii) schedule of rates contracts;
  - (iii) turnkey.
- (9 marks)
- (c) Highlight **four** items subject to retention and **four** items not subject to retention when preparing valuation of interim payment certificate. (8 marks)
- (d) Explain the importance of issuing "practical completion certificate" to a contractor. (4 marks)

