



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY
DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

CIVIL ENGINEERING

**MODULE: Computer Aided Design for
Civil Engineering**

PAPER NO: 578/23/M02B

DURATION: 4 Hours

MAY/JUNE 2024 EXAMINATION

REQUIREMENTS

Computers with AutoCAD software, Flash disk and Printer

INSTRUCTIONS TO CANDIDATE

- 1. Answer Question 1 and either Question 2 or 3.**
- 2. Each question carries 50 marks.**
- 3. Do not write anything on question paper.**

This paper consists of 7 printed pages.

Answer Question 1 and any other one.

QUESTION 1

Details of a section through a staircase is given in Fig 1. Reproduce the detail to a scale of 1:50. (50 marks)

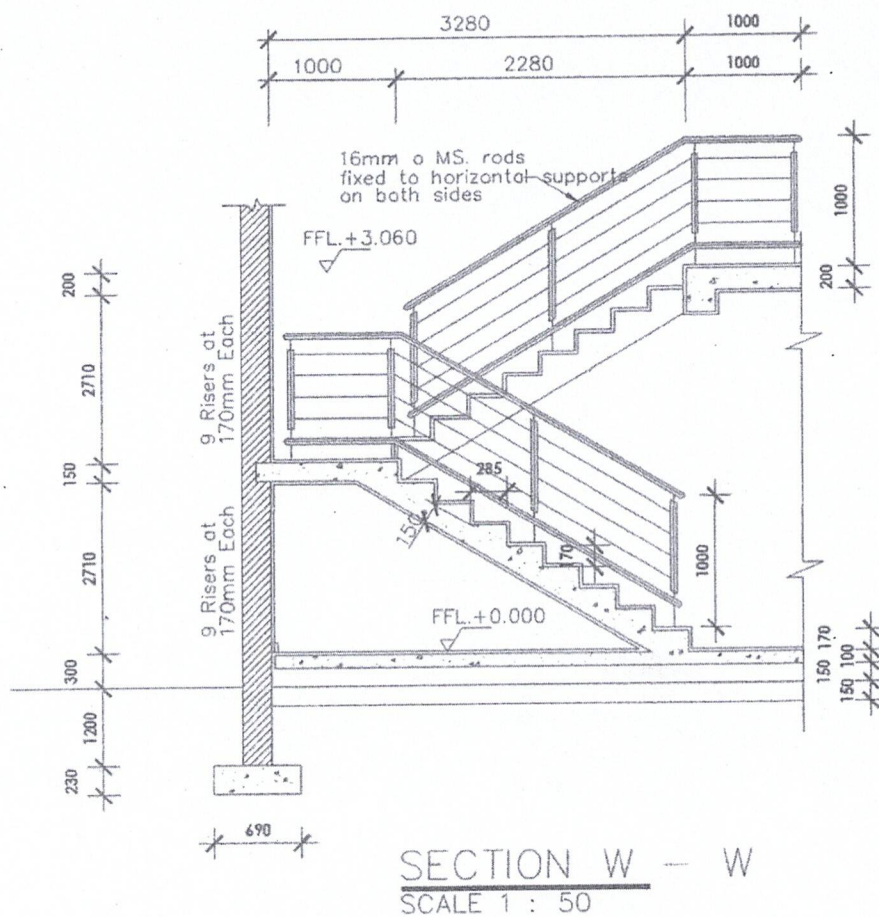


Fig 1

QUESTION 2

Fig 2 show a typical truss detail, using a scale of 1:100 reproduce the truss and also gusset connection shown. (50 marks)

QUESTION 3

- a) A floor plan and elevation of a cottage are shown in Fig 3. Reproduce the floor plan and the given elevations. (25 marks)

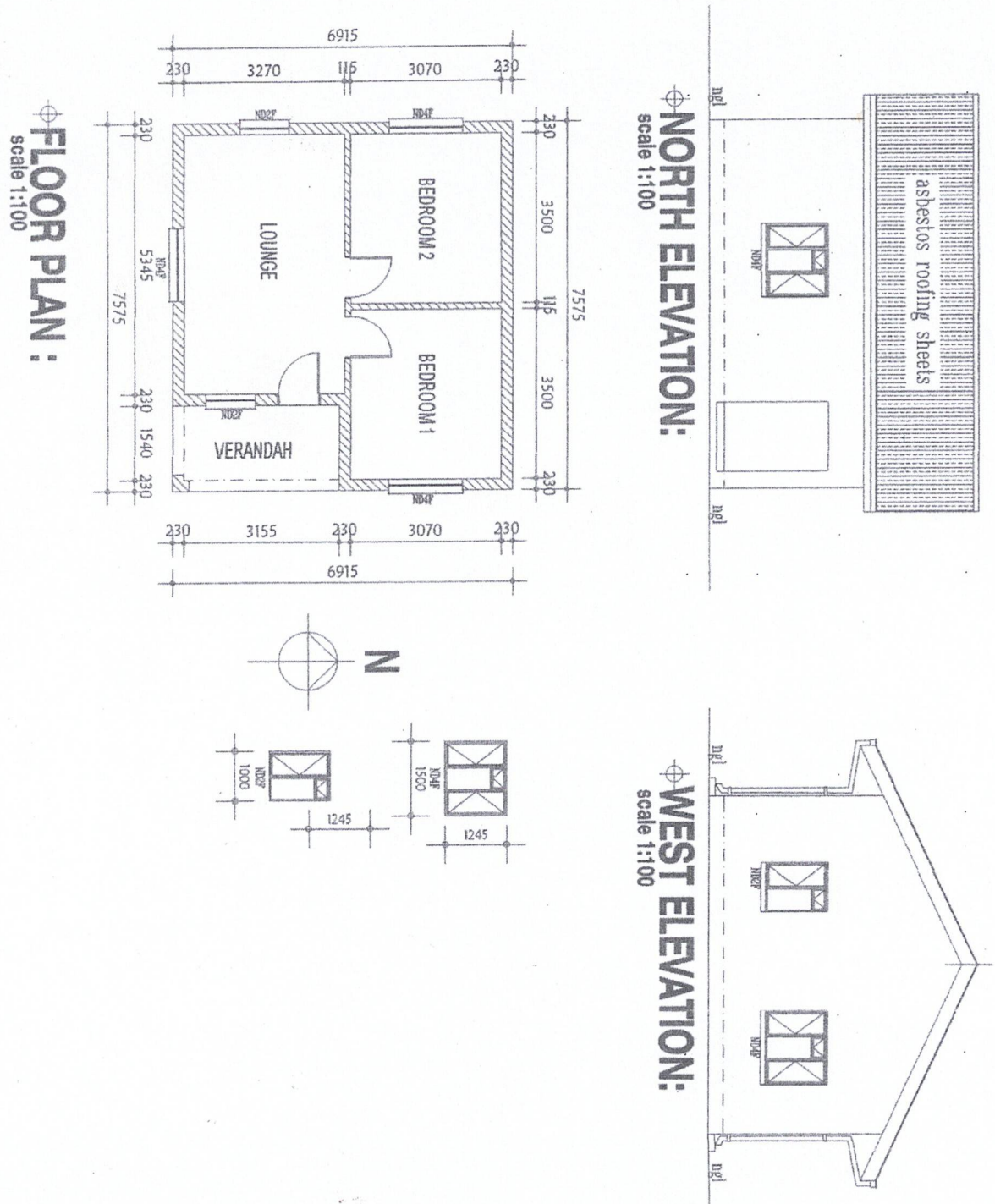
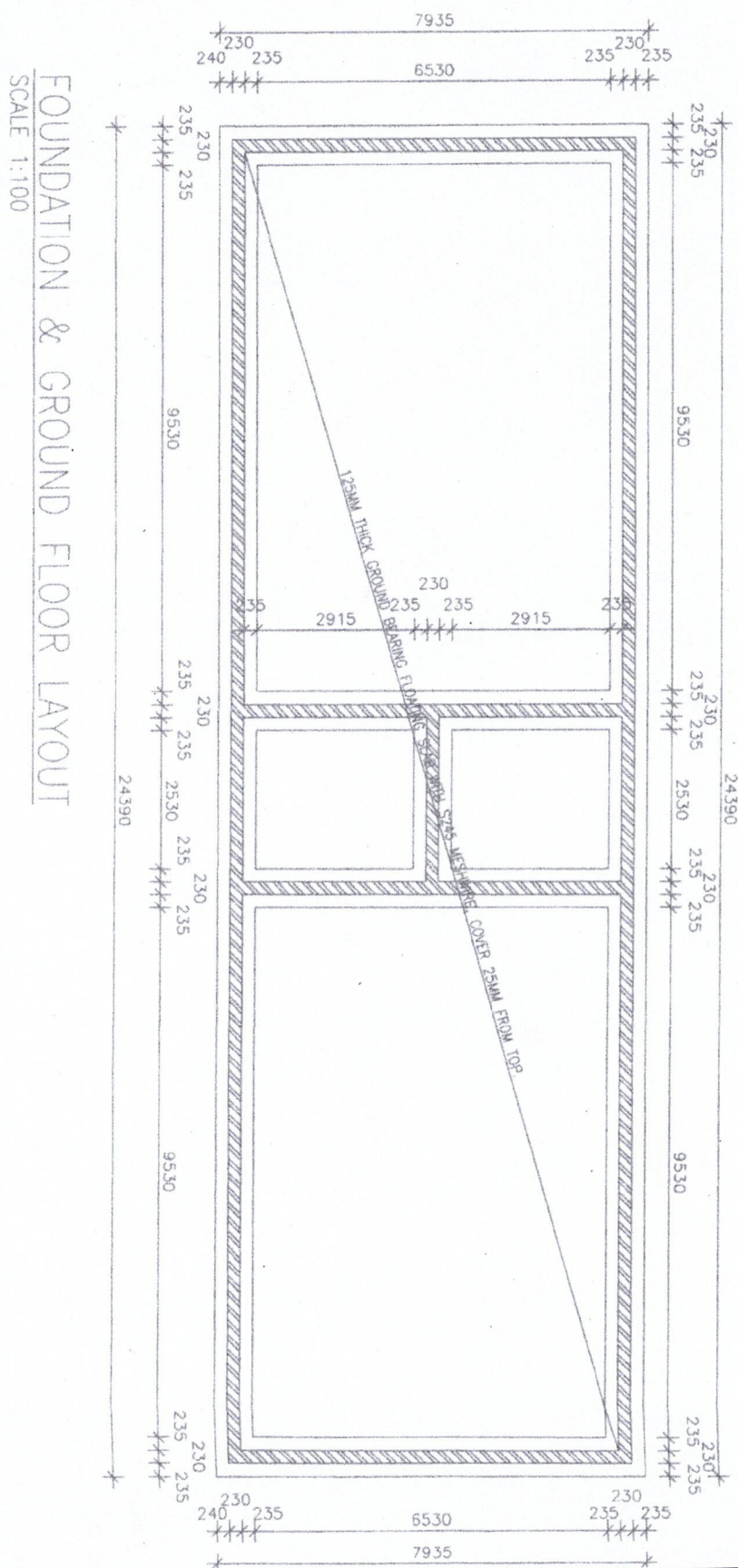


Fig 3

- b) Reproduce the ground floor and foundation layout shown in fig 4.
(25 marks)

Fig 4



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