higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)

DRAWING OFFICE PROCEDURES AND TECHNIQUES

(Second Paper)

NQF LEVEL 2

(12050702)

26 November 2018 (X-Paper)
09:00–13:00

REQUIREMENTS: A4 drawing sheets

This question paper consists of 3 pages and 2 diagram sheets.

NCV

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TIME: 4 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. Read ALL the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Maintain a balanced layout. Candidates will be penalised for poor planning.
5. Plot each question on a separate A4 DRAWING SHEET. Plot the answer on ONE side of the DRAWING SHEET only.
6. Draw a border line around each DRAWING SHEET.
7. Plot ALL candidate information in the title block.
8. ALL abbreviations and symbols must comply with the latest National Building Regulations and ALL relevant SANS (SABS) codes.
9. Candidates will be responsible, with suitable supervision, for printing/plotting their own drawings.
10. Write neatly and legibly.

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QUESTION 1

FIGURE 1, DIAGRAM SHEET 1 (attached), shows the complete outside front view of a model.

Draw, to SCALE 1 : 4, the front view of the model using CAD software. Print a title and scale centred beneath the drawing. **[20]**

QUESTION 2

FIGURE 2, DIAGRAM SHEET 1 (attached), shows the front view of a model.

Draw, to SCALE 1 : 1, the front view of the model using CAD software. Print a title and a scale centred beneath the drawing. **[20]**

QUESTION 3

FIGURE 3, DIAGRAM SHEET 2 (attached), shows the floor plan and elevations of a residential house

3.1 Use CAD software and draw, to SCALE 1 : 100, each of the following:

3.1.1 Floor plan (15)

3.1.2 Elevations (10)

3.2 Print the names of the elevations and the scale. (5)

3.3 Dimension the floor plan. (10)
[40]

QUESTION 4

FIGURE 4, DIAGRAM SHEET 2 (attached), shows the connection of the angles.

4.1 Use CAD software and draw, to SCALE 1 : 5, each of the following:

4.1.1 The connection of the angles (10)

4.1.2 The gusset plate as shown (5)

4.2 Dimension the drawing. (5)
[20]

TOTAL: 100

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DIAGRAM SHEET 1

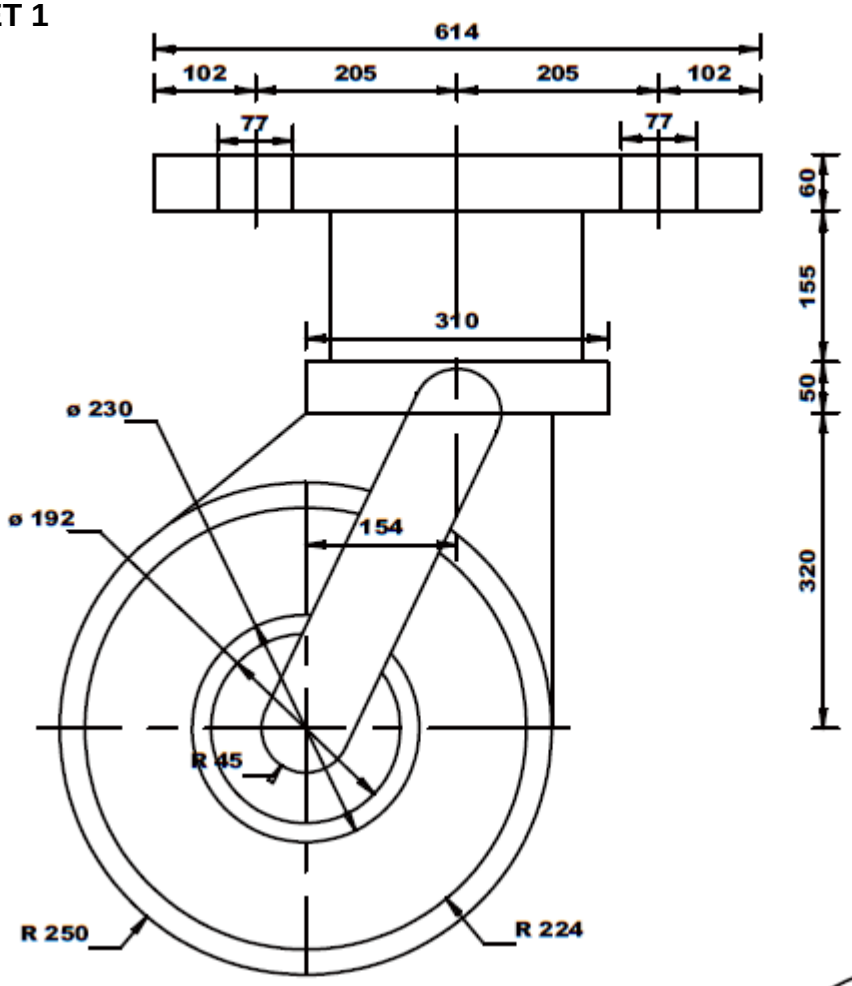


FIGURE 1

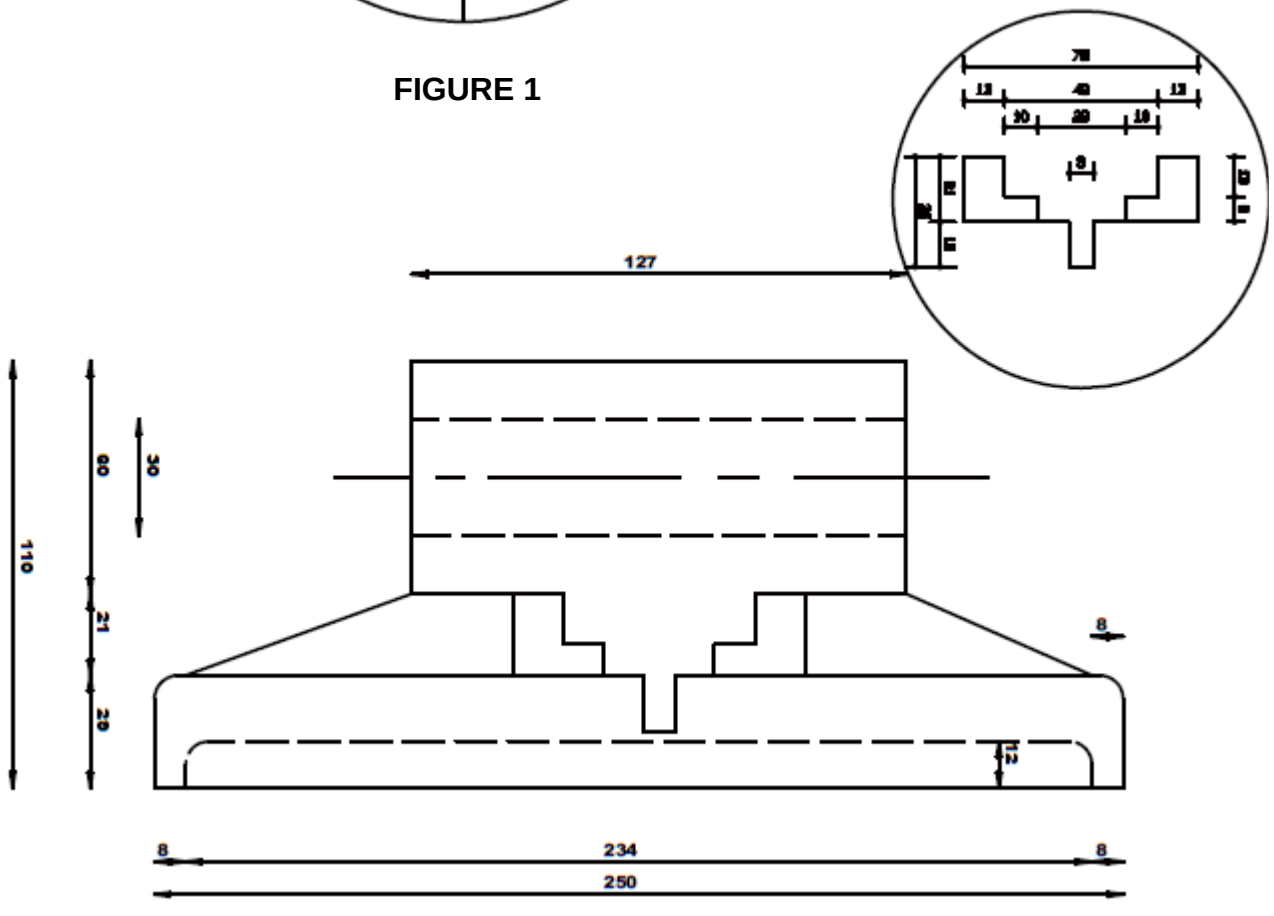
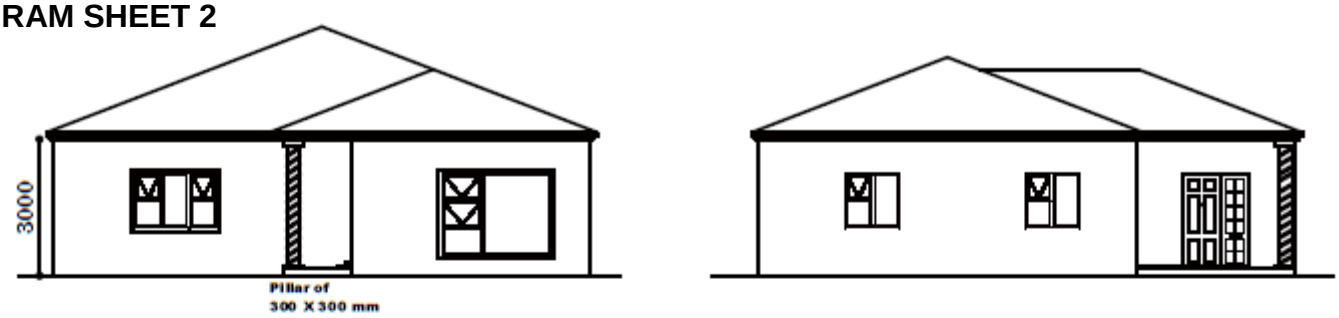
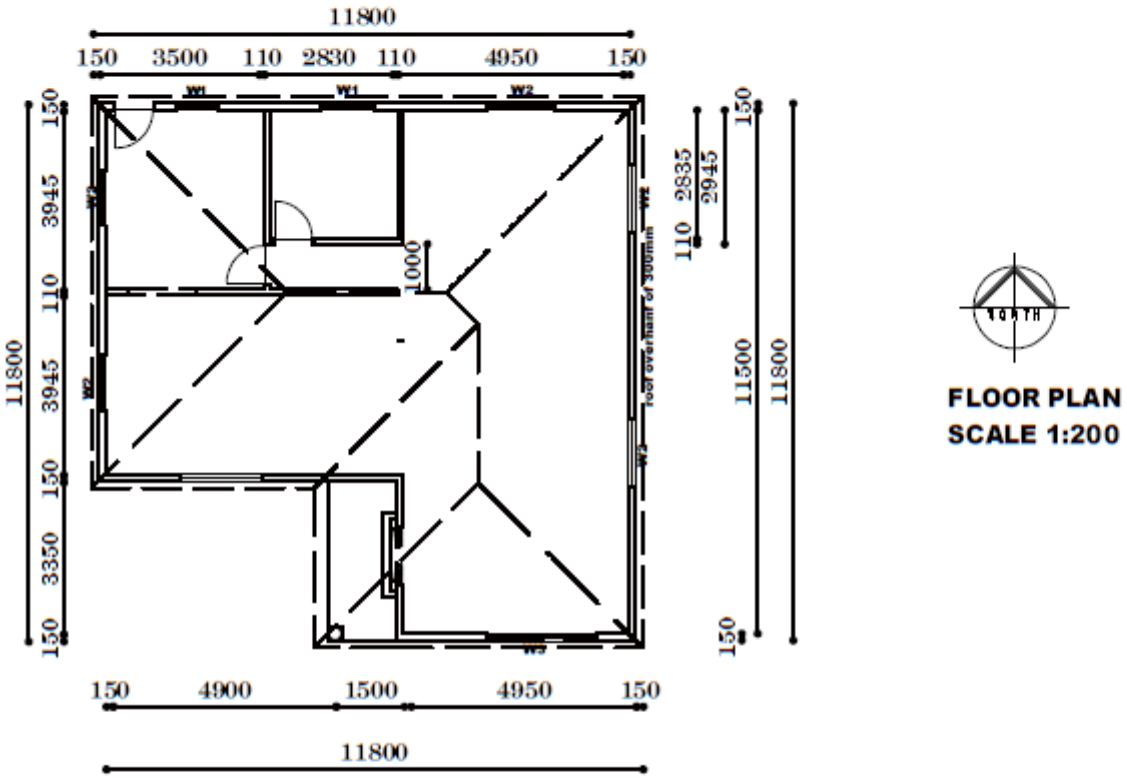


FIGURE 2

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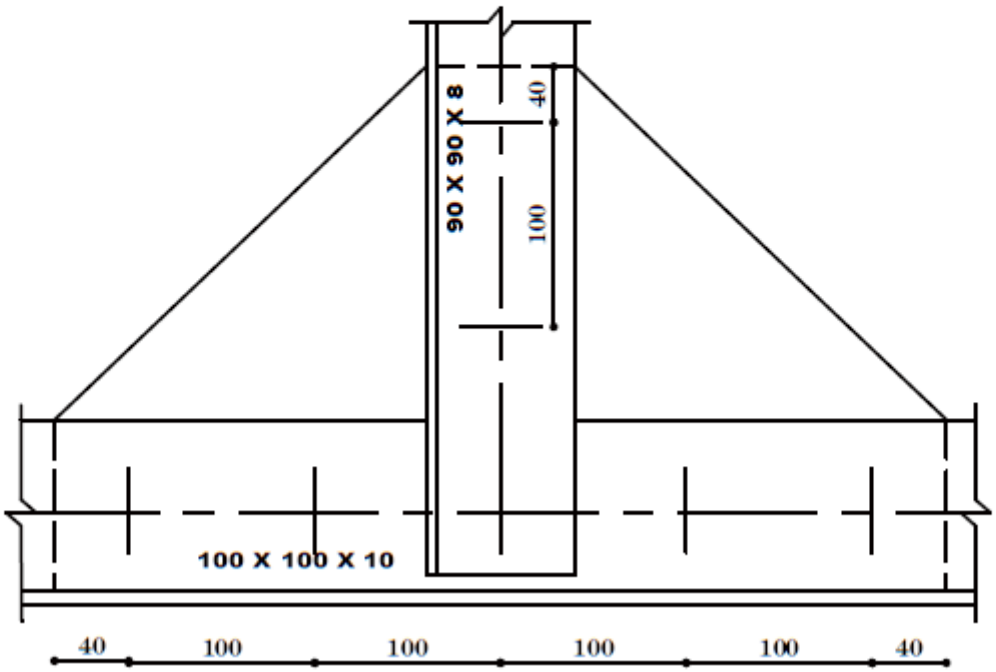
DIAGRAM SHEET 2





FLOOR PLAN
SCALE 1:200

FIGURE 3



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FIGURE 4