

basic education

Department: **Basic Education REPUBLIC OF SOUTH AFRICA**

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

FEBRUARY/MARCH 2011

MARKS: 100

TIME: 3 hours

This question paper consists of 6 pages.

INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of FOUR questions.
- 2. Answer ALL the questions.
- 4. ALL drawings must be drawn to scale 1 : 1, unless stated otherwise.
- whether the question was attempted.
- 7. Time management is essential in order to complete all the questions.
- 8. Print your examination number in the block provided on every page.
- 10. ALL answers must be drawn accurately and neatly.

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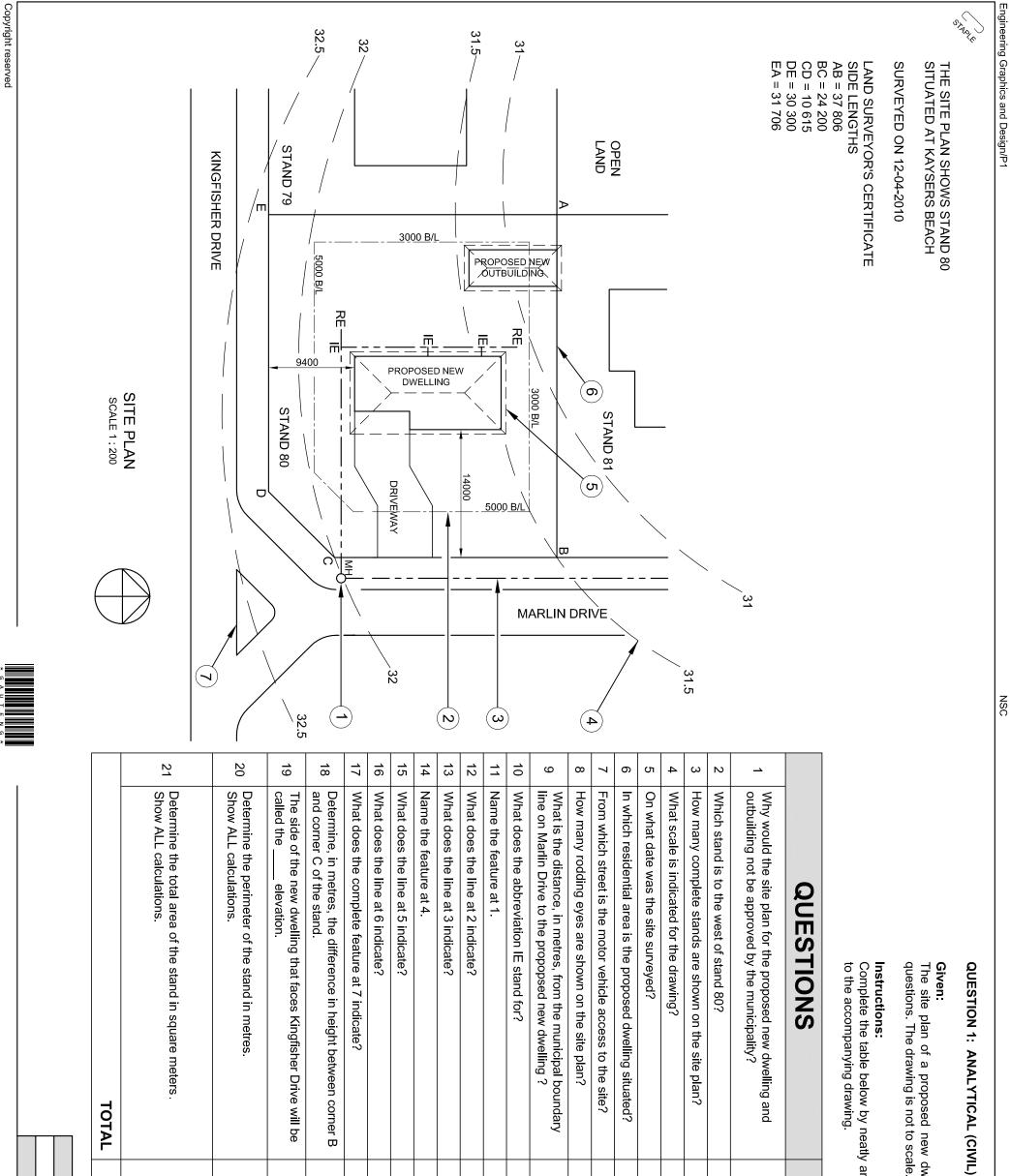
3. ALL drawings are in first-angle orthographic projection, unless stated otherwise.

5. ALL the questions must be answered on the QUESTION PAPER as instructed. 6. ALL the pages must be restapled in numerical sequence, irrespective of

9. Any details or dimensions not given, must be assumed in good proportion.

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Engineering Graphics and Design/P1

The site plan of a proposed new dwelling and outbuilding and a table of questions. The drawing is not to scale.

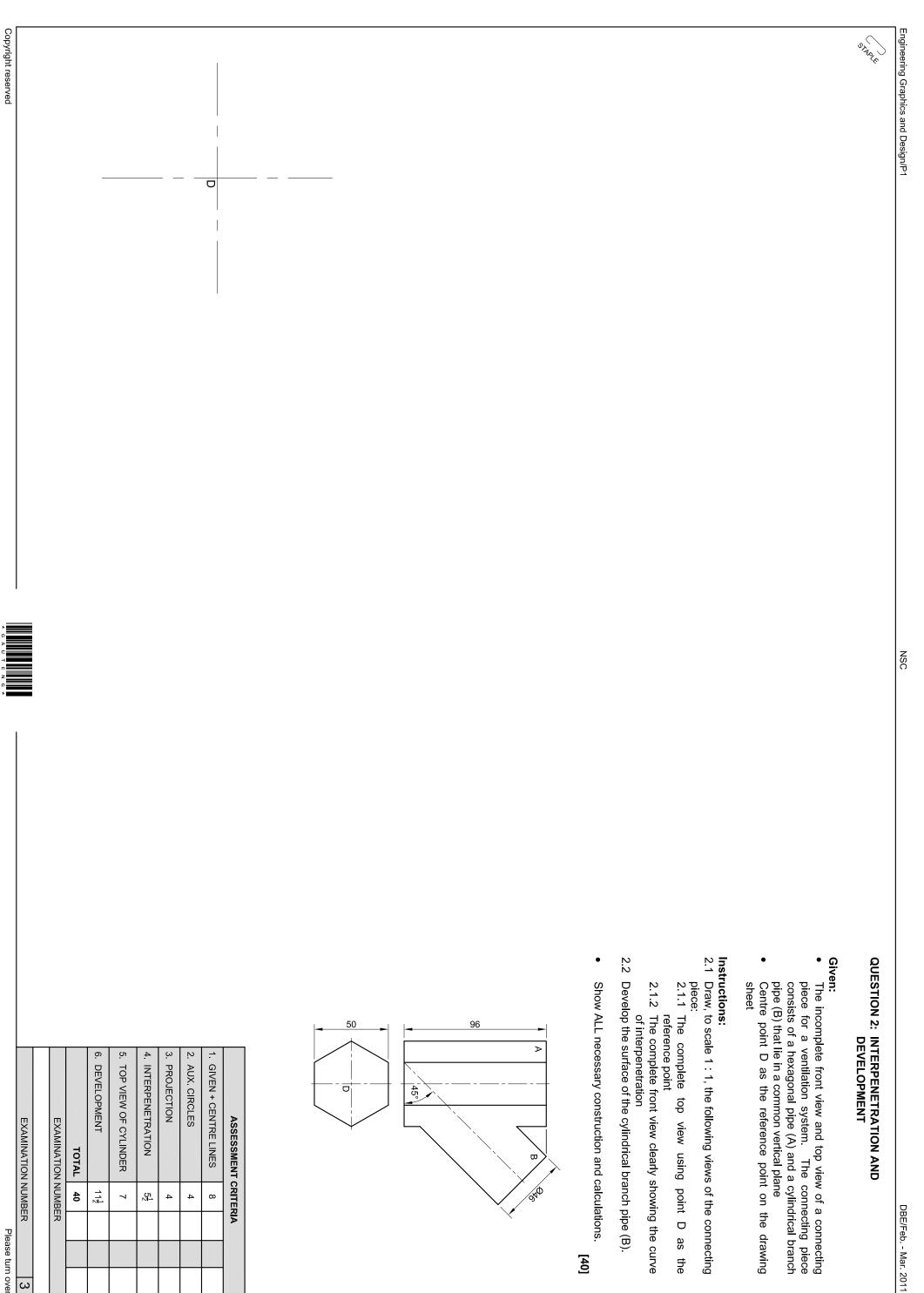
ow by neatly answering the questions, which all refer [27]

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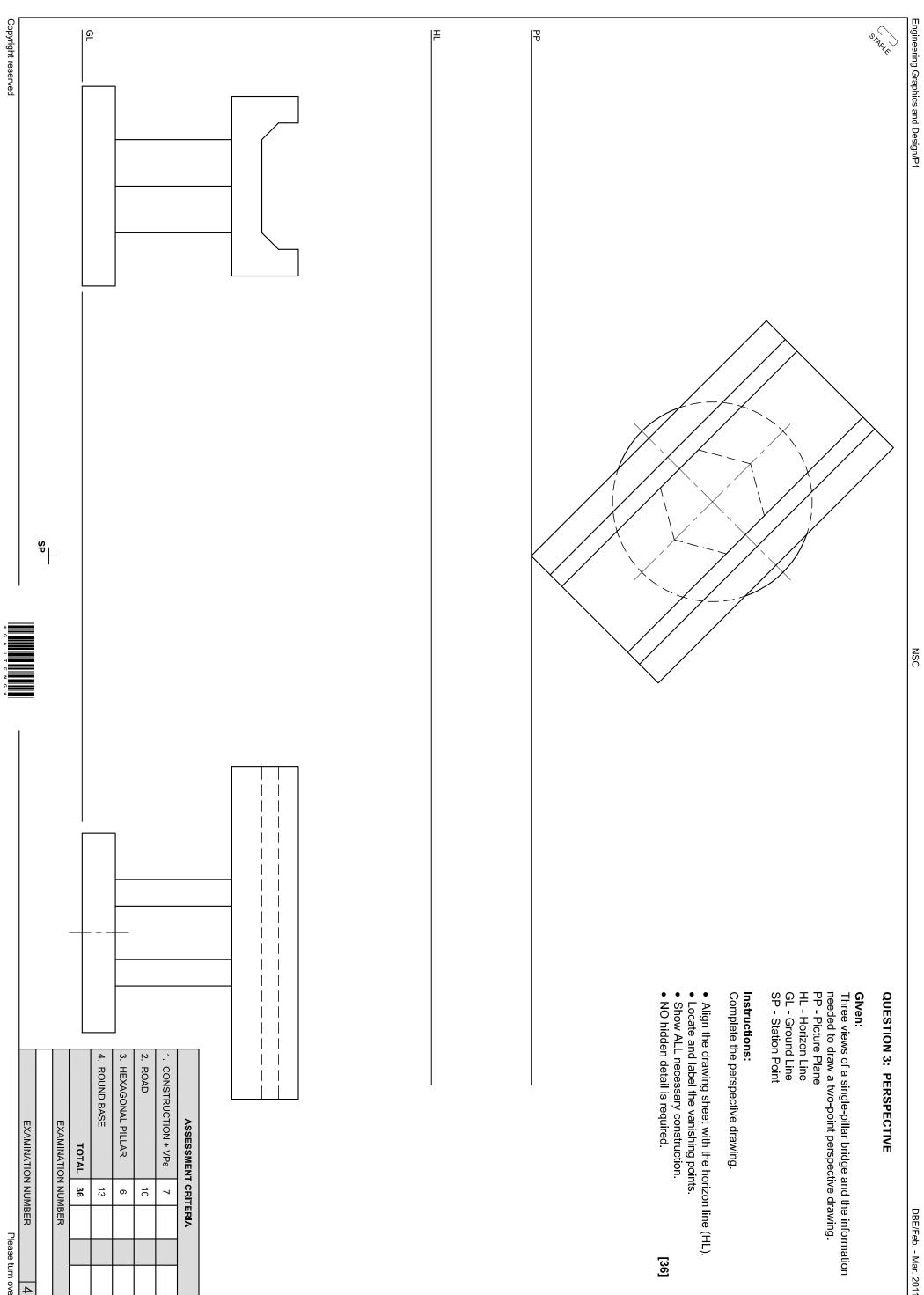
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EXAMINATION NUMBER	EXAMINATION NUMBER	TOTAL	6. DEVELOPMENT	5. TOP VIEW OF CYLINDER	4. INTERPENETRATION	3. PROJECTION	2. AUX. CIRCLES	1. GIVEN + CENTRE LINES	ASSESSMENT CRITERIA	
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The complete front view clearly showing the curve



QUESTION 3: PERSPECTIVE

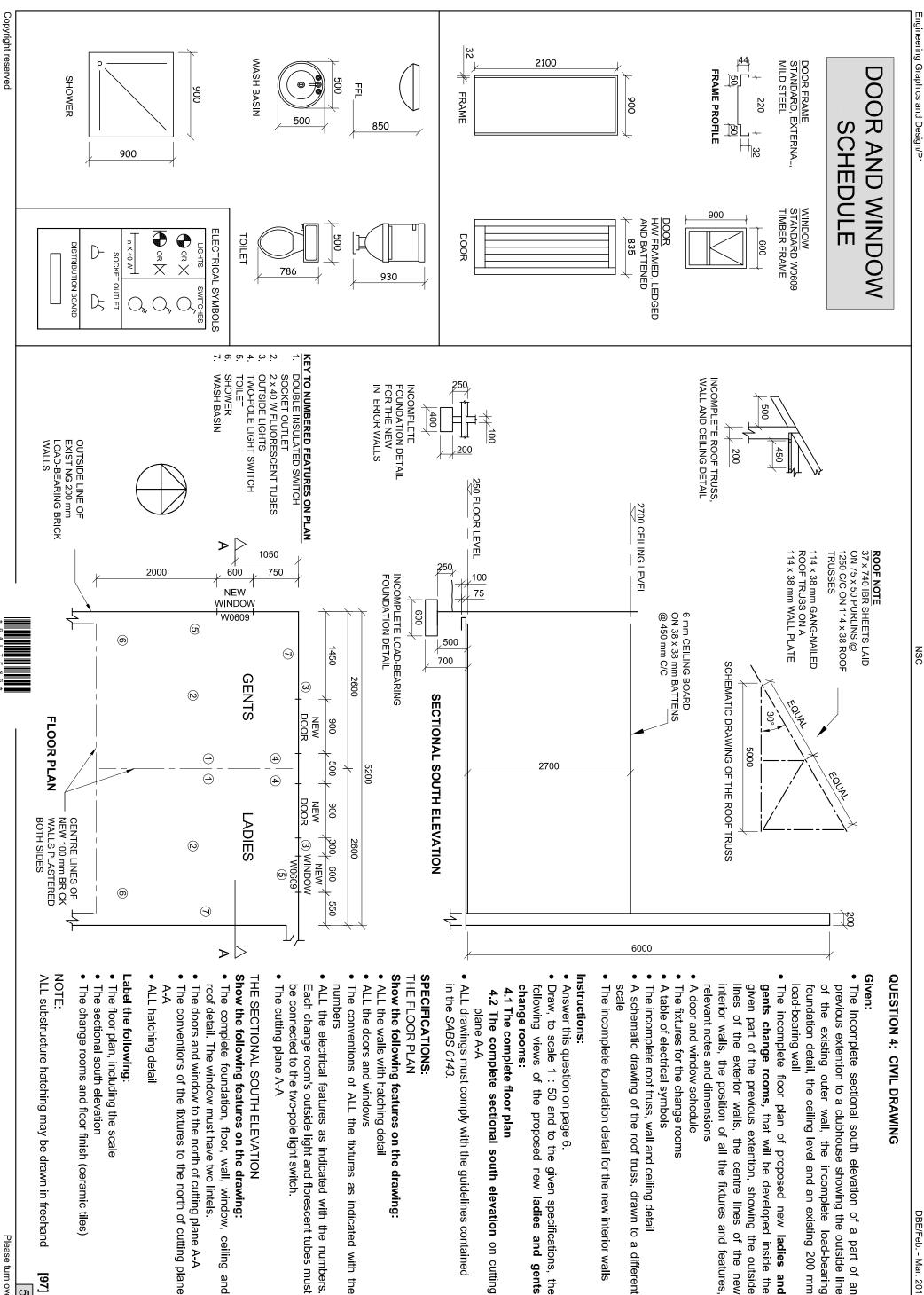
DBE/Feb. - Mar. 2011

Align the drawing sheet with the horizon line (HL).
Locate and label the vanishing points.
Show ALL necessary construction.
NO hidden detail is required.





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FION 4: CIVIL DRAWING

load-bearing wall previous extention to a clubhouse showing the outside line of the existing outer wall, the incomplete load-bearing foundation detail, the ceiling level and an existing 200 mm incomplete sectional south elevation of a part of an

interior walls, the position of all the fixtures and features, gents change rooms, that will be developed inside the given part of the previous extention, showing the outside relevant notes and dimensions incomplete floor plan of proposed new ladies and of the exterior walls, the centre lines of the new

A door and window schedule

• The fixtures for the change rooms A table of electrical symbols

The incomplete roof truss, wall and ceiling detail

A schematic drawing of the roof truss, drawn to a different

• The incomplete foundation detail for the new interior walls

Answer this question on page 6.

change rooms: Draw, to scale 1 : 50 and to the given specifications, the following views of the proposed new ladies and gents

The complete floor plan

The complete sectional south elevation on cutting plane A-A

ALL drawings must comply with the guidelines contained in the SABS 0143.

SPECIFICATIONS:

THE FLOOR PLAN

Show the following features on the drawing:

the walls with hatching detail

the doors and windows

conventions of ALL the fixtures as indicated with the

oers

the electrical features as indicated with the numbers. change room's outside light and florescent tubes must

be connected to the two-pole light switch.

THE SECTIONAL SOUTH ELEVATION cutting plane A-A

detail. The window must have two lintels.

the following features on the drawing:

conventions of the fixtures to the north of cutting plane

hatching detail



change rooms and floor finish (ceramic tiles)

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EXAMINATION NUMBER

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EXAMINATION NUMBER

ASSESSMENT CRITERIA