

## basic education

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

NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

ENGINEERING GRAPHICS AND DESIGN P1

**NOVEMBER 2013** 

**MEMORANDUM** 

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**MARKS: 100** 

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This memorandum consists of 7 pages.

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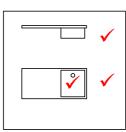
ANSWERS		
1	2	1
2	2	1
3	114	1
4	3,5 m	1
5	MANHOLE	1
6	2,4 m	1
7	ADJACENT BUILDING/STRUCTURE	1
8	OUTBUILDING TO BE DEMOLISHED	1
9	DRIVEWAY	1
10	BOUNDARY LINE LENGTH	1
11	BUILDING LINE	1
12	7521	1
13	ES7245	1
14	AVOCADO	1
15	MILLIMETRES or mm	1
16	HIGHER	2
17	3,5 m	2
18	(See below.)	4
19	(See below.)	4
20	52 m [calculation 1, answer 1, metres 1]	3

TOTAL: 30





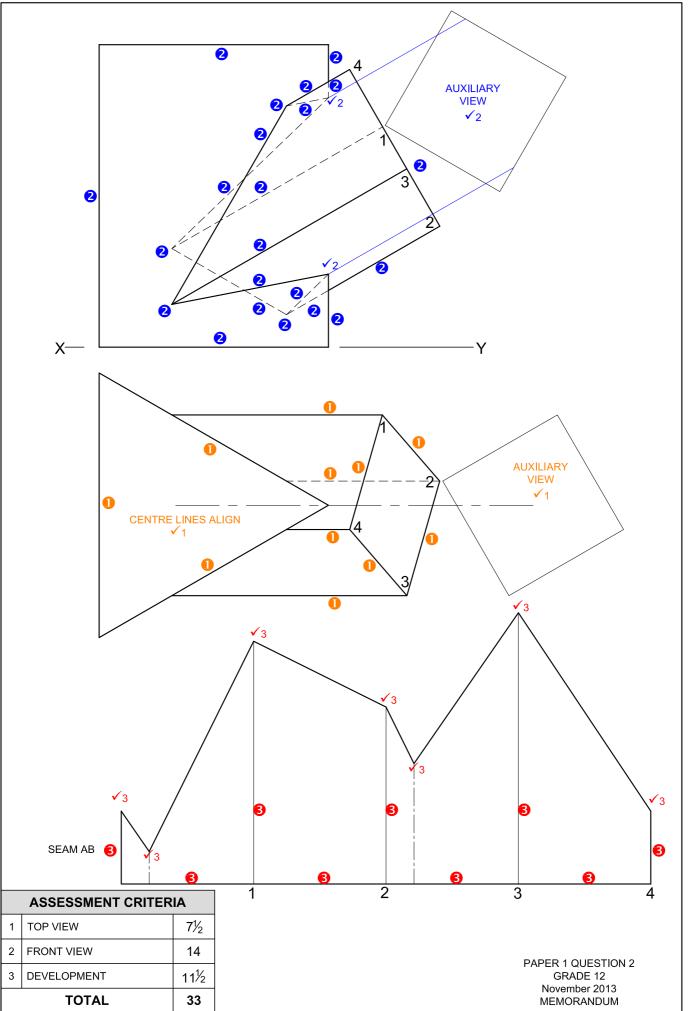
19 FREEHAND



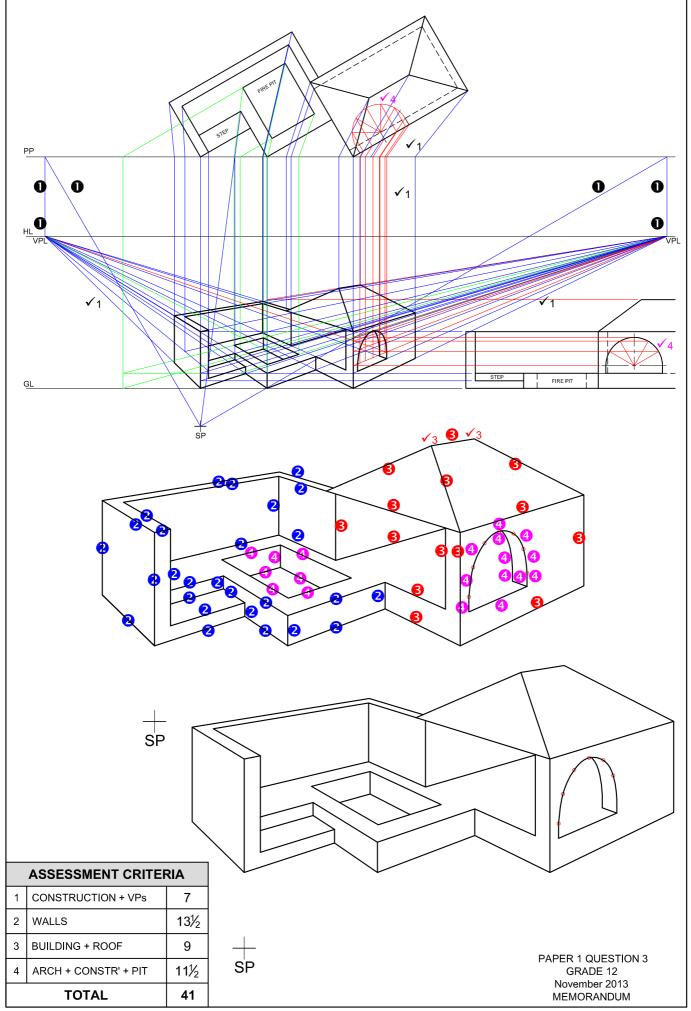
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PAPER 1 QUESTION 1 GRADE 12 November 2013 MEMORANDUM

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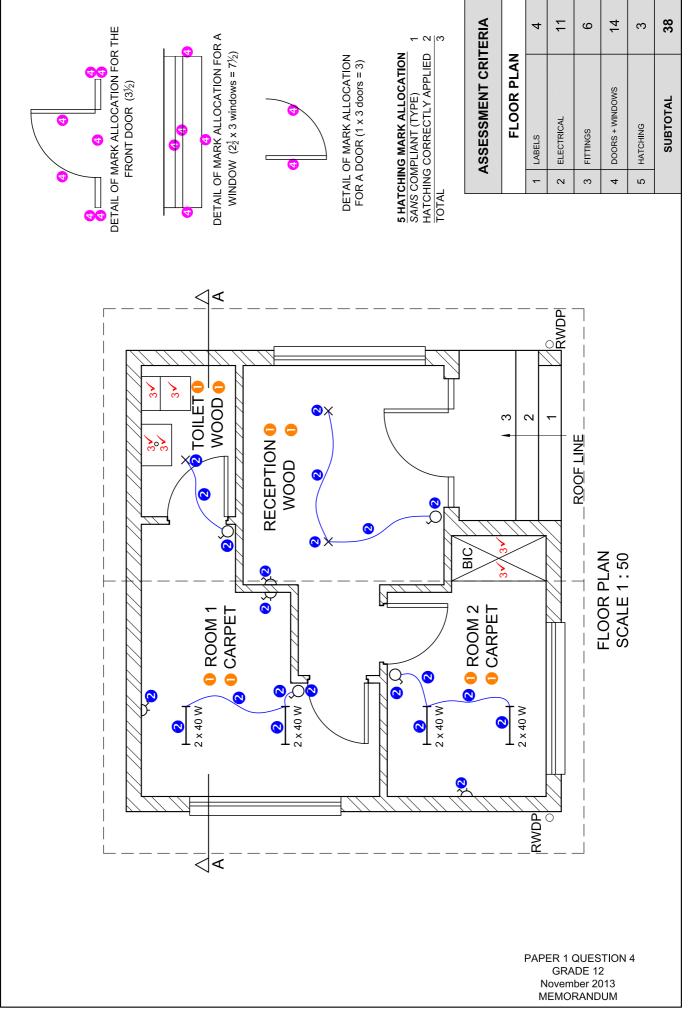


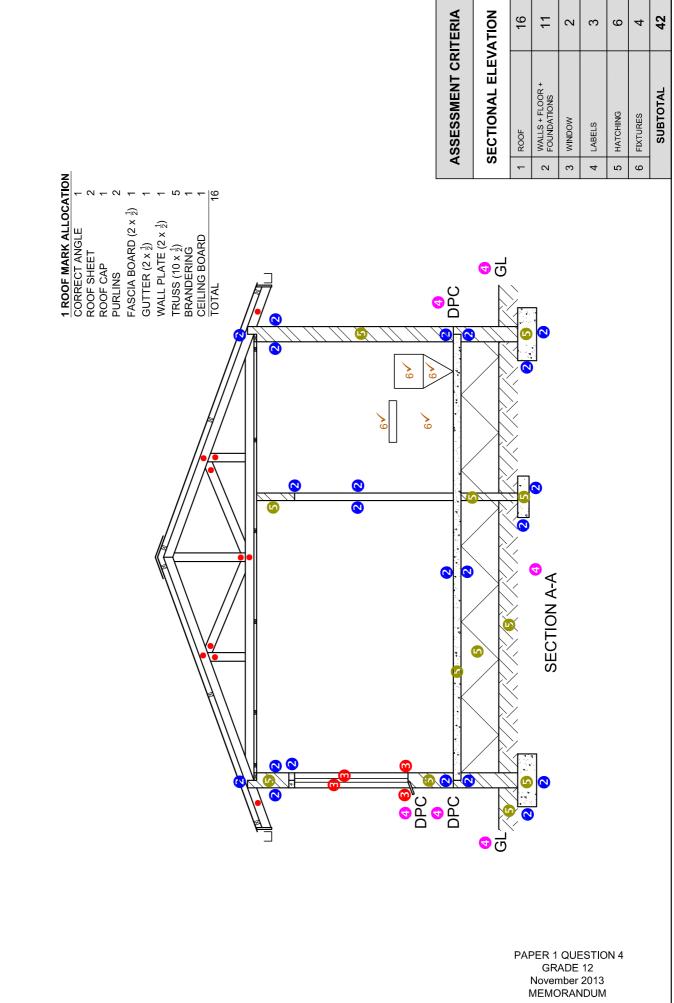
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