

## basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

**ENGINEERING GRAPHICS AND DESIGN P1** 

**NOVEMBER 2012** 

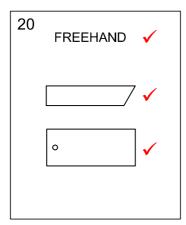
**MEMORANDUM** 

**MARKS: 100** 

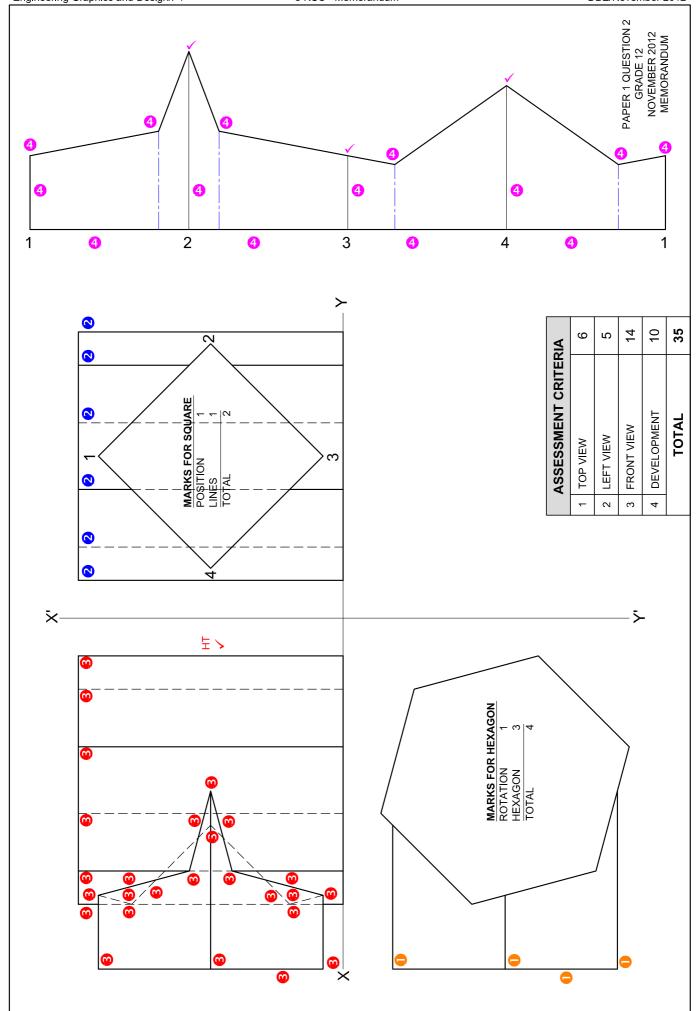
This memorandum consists of 7 pages.

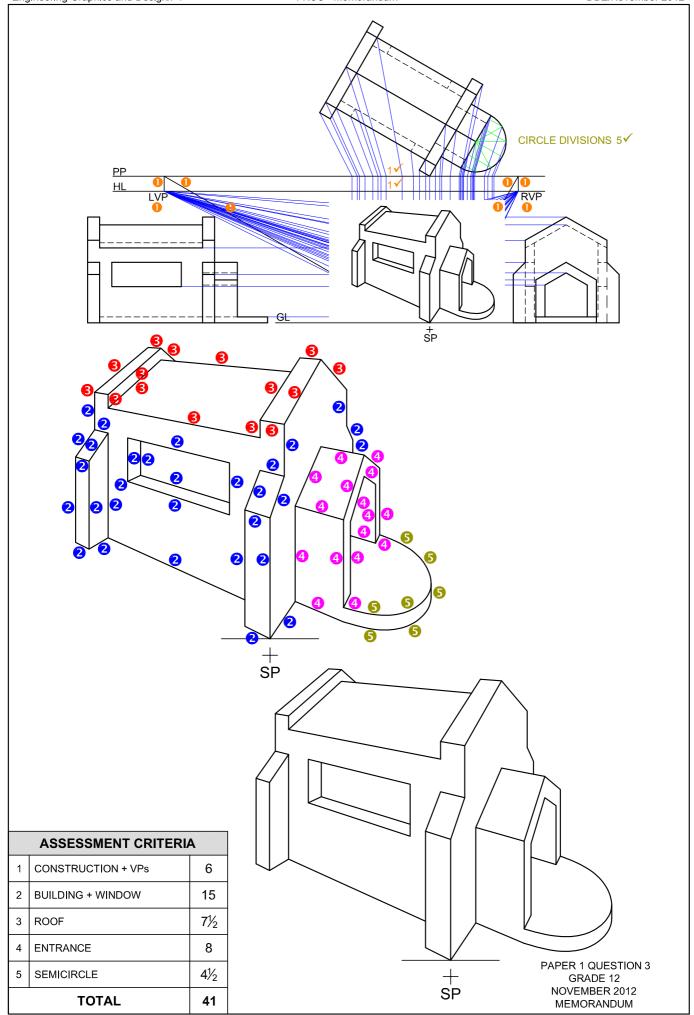
ANSWERS		
1	DESIGN FOR LIVING ARCHITECTS	1
2	LEBO	1
3	18/10/2012	1
4	DBE-2012-01	1
5	VERIFY DIMENSIONS AND CHECK LEVELS	1
6	1,8 m or 1 800 mm	1
7	1	1
8	16	1
9	UP (STEP)	1
10	SEPTIC TANK	1
11	SEWERAGE PIPE/LINE	1
12	ASPHALT	1
13	GATE OPENING DIRECTION	2
14	(FUTURE) RECREATIONAL DEVELOPMENT	2
15	128,55 m	2
16	INSPECTION EYE	1
17	21 880 mm	2
18	437,853 m [calculation 1, answer 1, metre 1]	3
19	1 214 m² [calculation 1, answer 1, metre² 1]	3
20		3

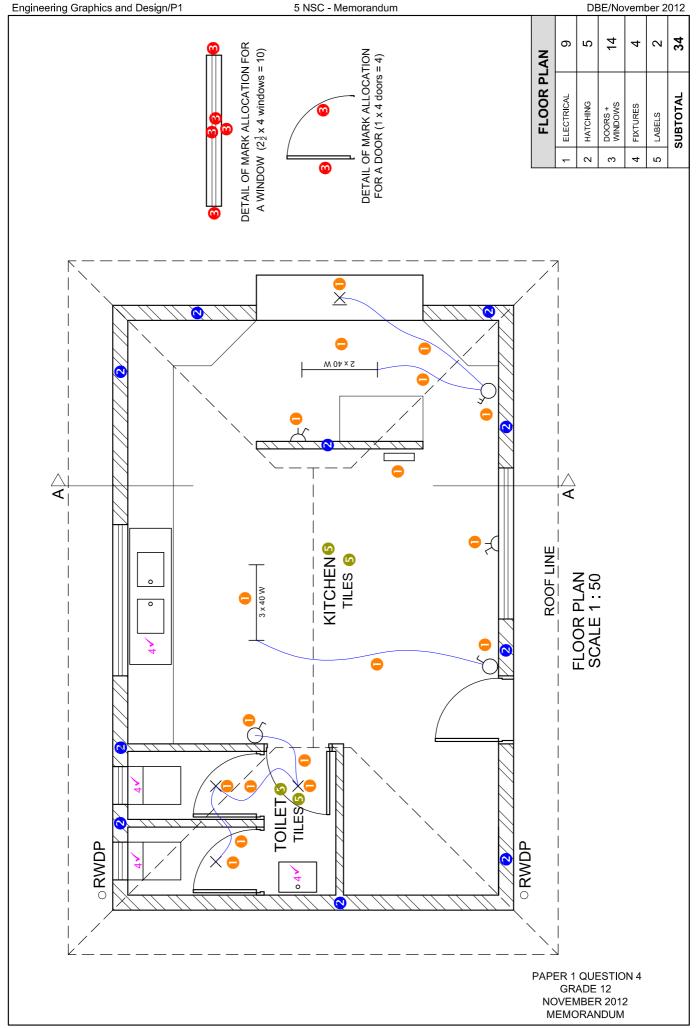
TOTAL: 30

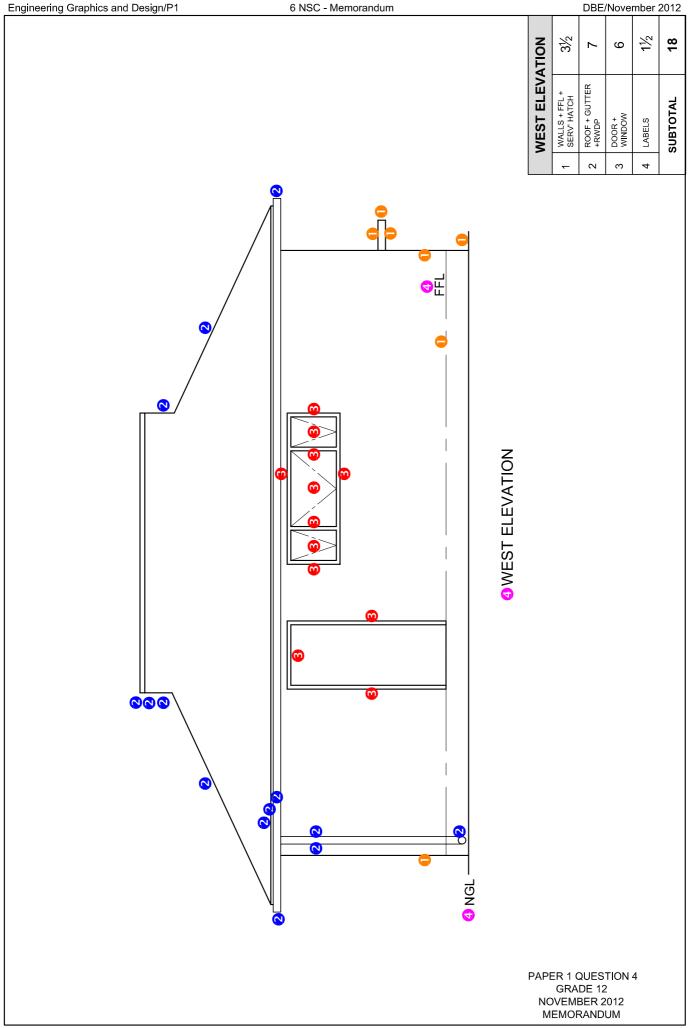


PAPER 1 QUESTION 1 GRADE 12 NOVEMBER 2012 MEMORANDUM









**MEMORANDUM**