

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1
NOVEMBER 2011
MEMORANDUM

MARKS: 100

This memorandum consists of 5 pages.

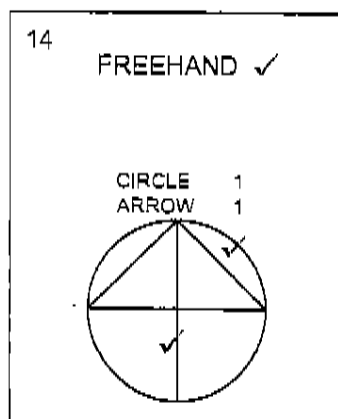
DEPARTMENT OF BASIC EDUCATION
2011 -11- 1 0 PRIVATE BAG X 110 PRETORIA 0001
PUBLIC EXAMINATIONS

S.C. DE GRUW (IA)
M.P. MOODLEY (EM)

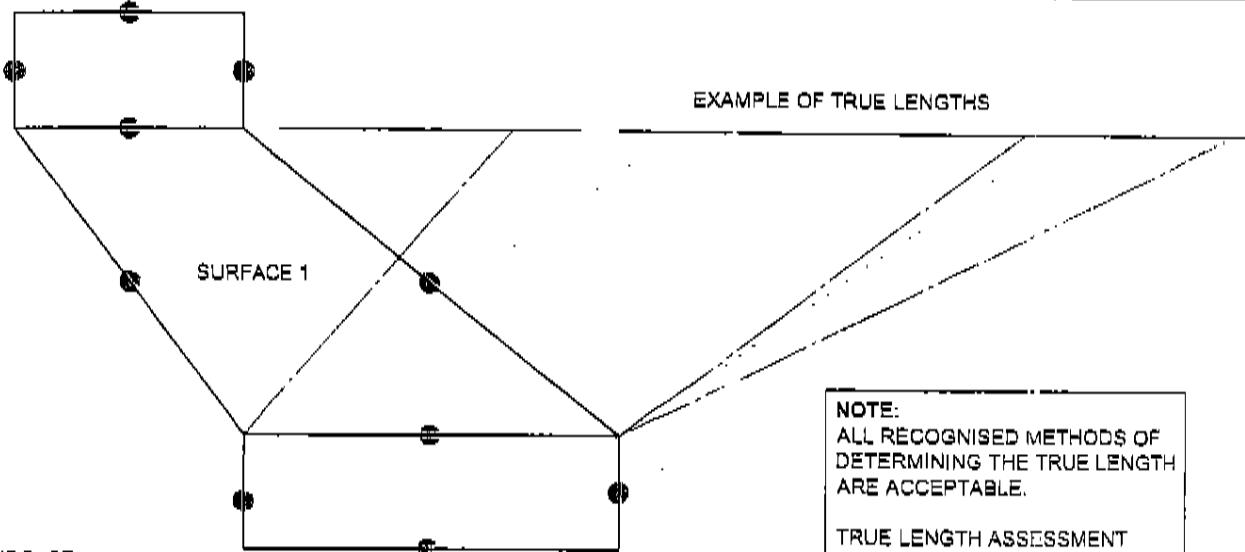
ANSWERS

1	7	1
	2	1
	10	1
	4	1
	9	1
	3	1
	1	1
	6	1
	8	1
	5	1
2	2/08	1
3	ROCKY ROAD	1
4	SEWER LINE	1
5	ROAD	1
6	UNIT/BUILDING/SUITE/CONSULTING ROOM 9	1
7	BRICK PAVING/WALKWAY	1
8	BUILDING LINE	1
9	4	1
10	10	1
11	A (1558,2)	2
12	456,6 m [calculation 1, answer 1, metres 1]	3
13	12916,8 m ² [calculation 1, answer 1, metres ² 1]	3
14		3

TOTAL: 30



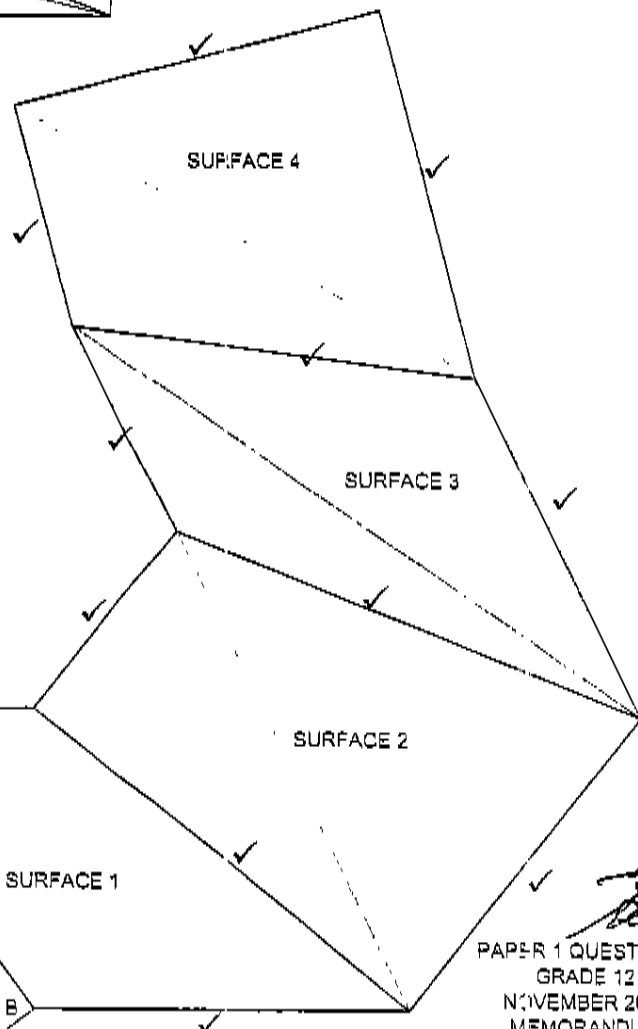
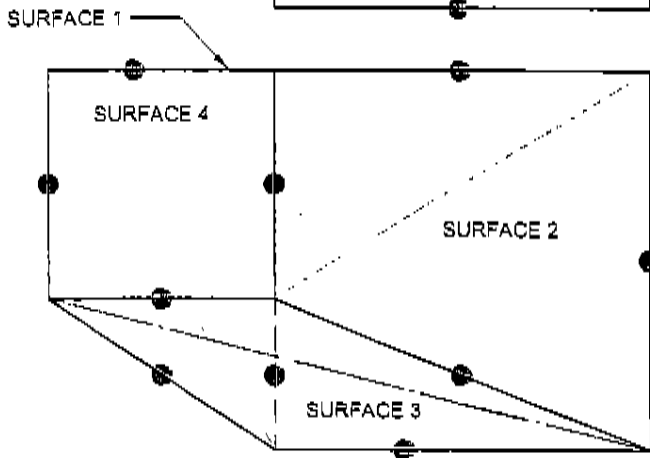
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EXAMPLE OF TRUE LENGTHS

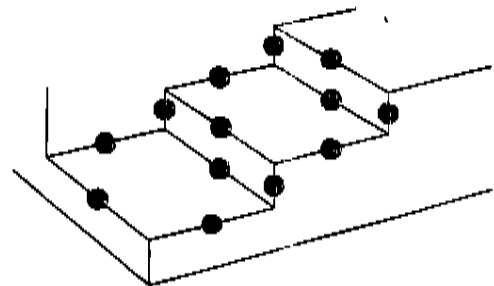
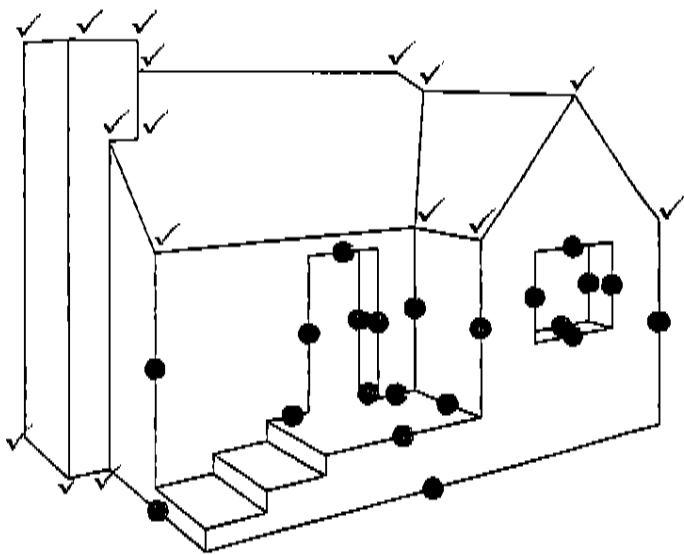
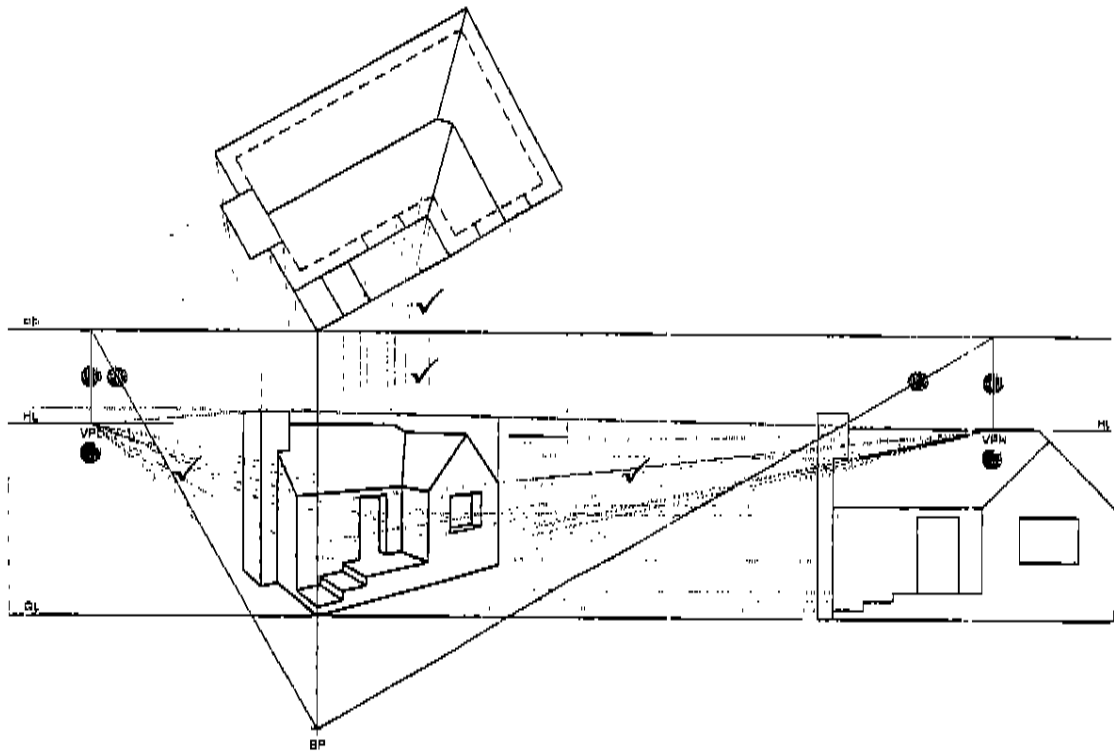
NOTE:
 ALL RECOGNISED METHODS OF
 DETERMINING THE TRUE LENGTH
 ARE ACCEPTABLE.

TRUE LENGTH ASSESSMENT
 5 x LINES = 5
 5 x METHOD = 5
 10



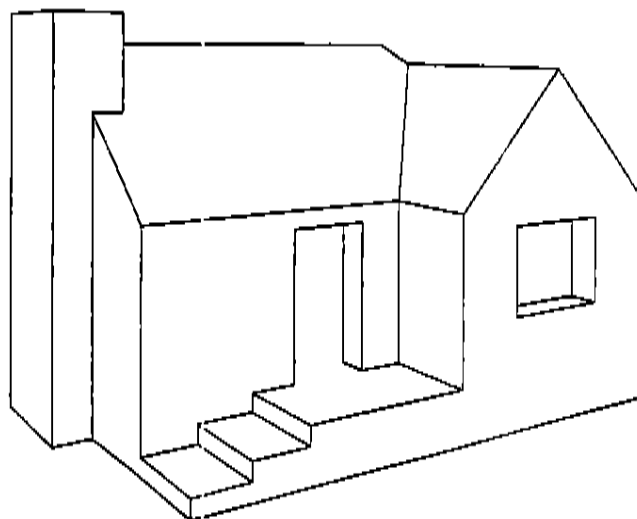
START WITH AB ✓

ASSESSMENT CRITERIA	
FRONT VIEW + TOP VIEW	10
TRUE LENGTH + METHOD	10
DEVELOPMENT	14
TOTAL	34



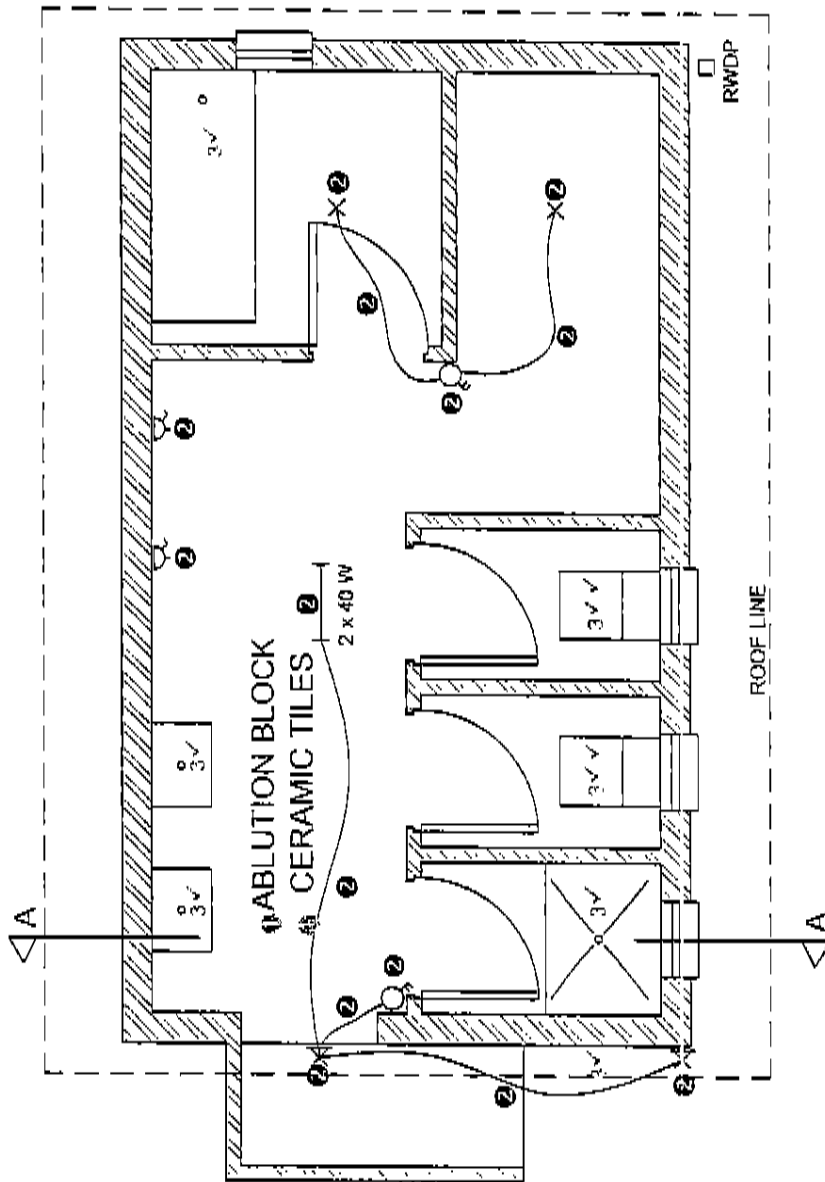
✓ DETAIL OF MARK ALLOCATION FOR STEPS (7)

SP



ASSESSMENT CRITERIA	
CONSTRUCTION + VP's	7
BUILDING	18
ROOF + CHIMNEY	16
TOTAL	41

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PLAN
SCALE 1 : 50

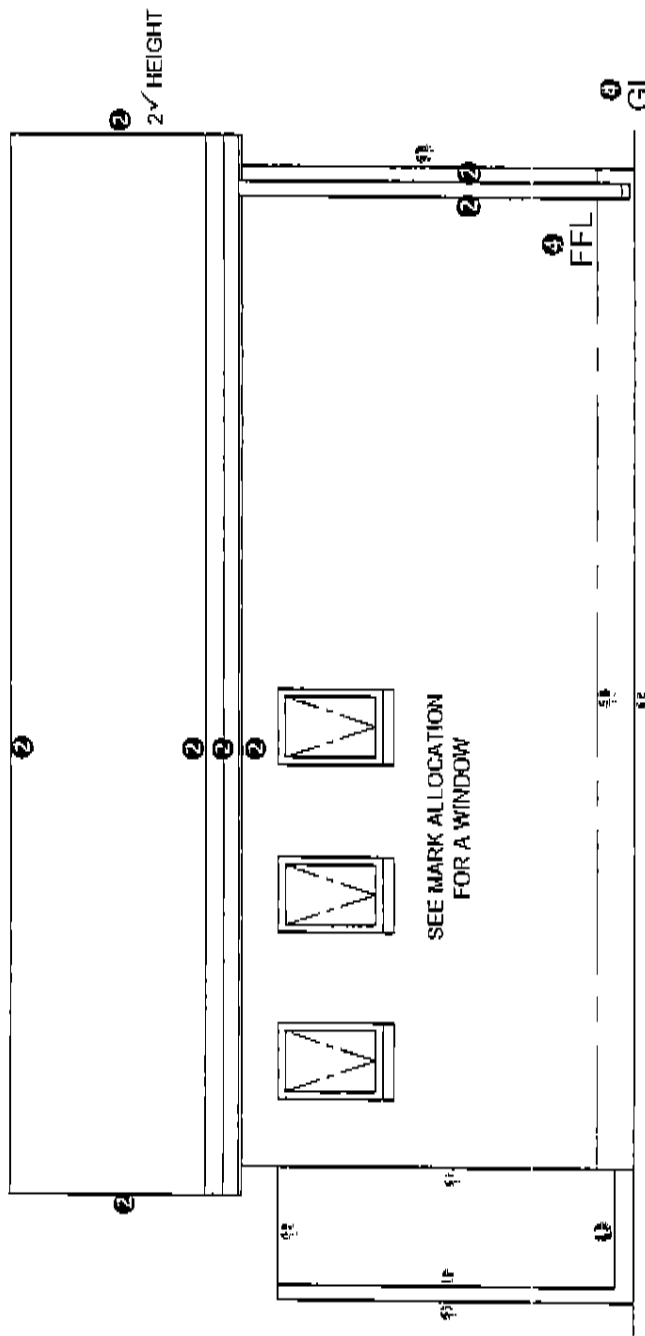


DETAIL OF MARK ALLOCATION
FOR A DOOR (1 x 4 doors = 4)




DETAIL OF MARK ALLOCATION FOR
A WINDOW (2½ x 4 windows = 10)

FLOOR PLAN	
1	LABELS 2
2	ELECTRICAL 7
3	FIXTURES 8
4	DOORS & WINDOWS 14
SUBTOTAL 31	



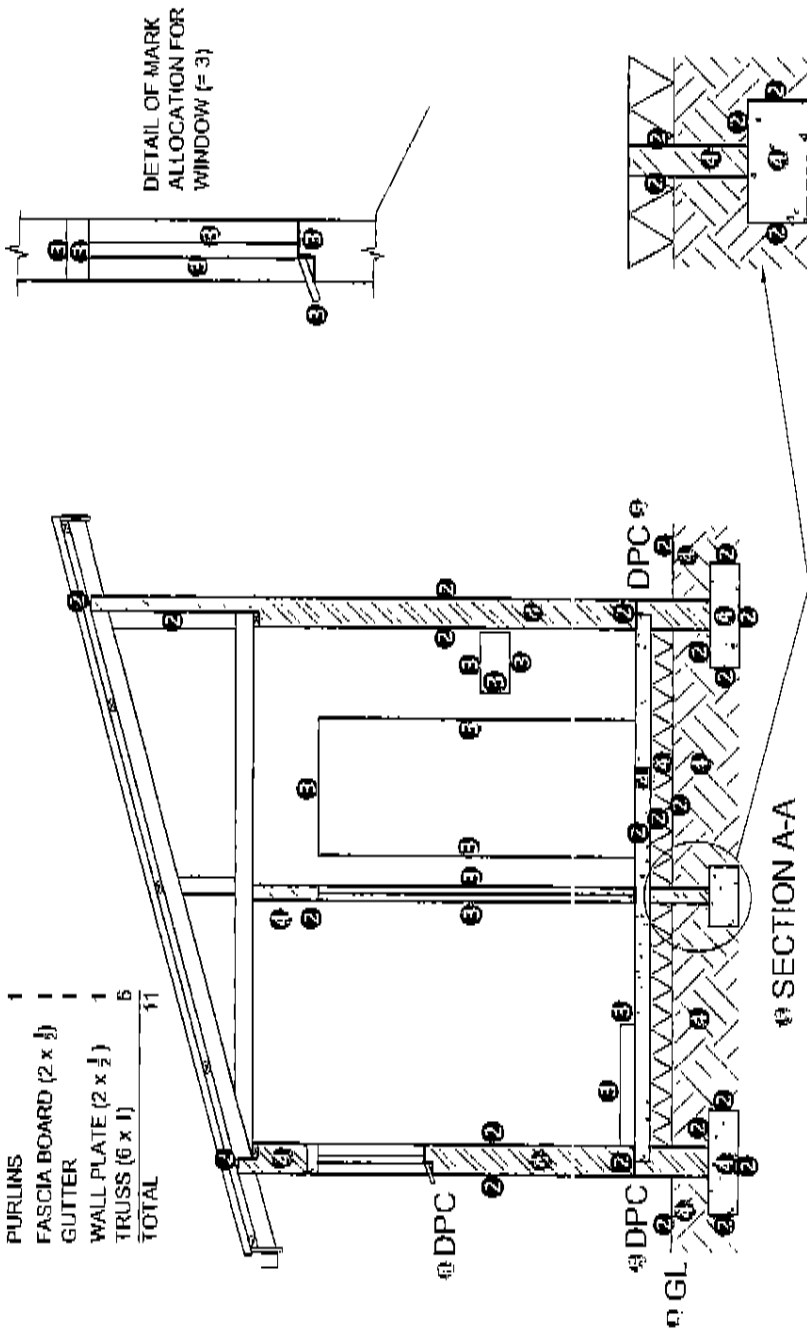
⊙ NORTH ELEVATION

NORTH ELEVATION		
1	WALLS + FFL	4
2	ROOF + FASCIA + GUTTER + RWDIP	5
3	WINDOWS	10 1/2
4	LABELS	1 1/2
SUBTOTAL		21


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MARK ALLOCATION

ROOF SHEET	1
PURLINS	1
FASCIA BOARD (2 x 1/2)	1
GUTTER	1
WALL PLATE (2 x 1/2)	1
TRUSS (6 x 1)	6
TOTAL	11



SECTIONAL ELEVATION		
1	ROOF	11
2	WALLS + FLOOR + FOUNDATION	14 1/2
3	WINDOW + DOORS + FIXTURES	8
4	HATCHING	7
5	LABELS	2 1/2
SUBTOTAL		43

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