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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**SENIOR CERTIFICATE EXAMINATIONS/
NATIONAL SENIOR CERTIFICATE EXAMINATIONS**

ENGINEERING GRAPHICS AND DESIGN P1
MAY/JUNE 2025
MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 7 pages.

ANSWERS

1	CJE ARCHITECTS	1
2	1 : 400	1
3	EXTENSION OF DRIVEWAY	1
4	CAMP STREET	1
5	619,75	1
6	ASPHALT	1
7	4	1
8	FENCE	1
9	2000	1
10	FALL	1
11	HEIGHT ABOVE SEA-LEVEL	1
12	WATT / ELECTRICAL METER	1
13	HIDDEN OR DASHED	1
14	8,219	1
15	YELLOW	1
16	3. MH 4. RE 5. IE	3
17	RELIGIOUS BUILDING	1
18		3
19	See below	4
20		4
TOTAL		30

ANSWER 18

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$P = AB + BC + CD + DA$$

$$= 22,8 + 36,4 + 23 + 39,4$$

$$= 121,6 \text{ m ANSWER IN METRES} ✓$$

ANSWER 19

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

EXISTING BUILDING AREA

$$\text{AREA} = (L \times B) + (L \times B) \dots$$

$$= (11,5 \times 4,3) + (7,6 \times 15,8) \quad (8,5 \times 1,8)$$

$$= 184,83$$

TOTAL AREA

$$= 184,83 + 41,59 ✓$$

$$= 226,42 \text{ m}^2 ✓$$

ANSWER IN SQUARE METRES (m²) ✓

ANSWER 20

a)



b)



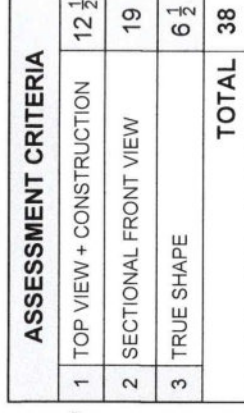
b)



RECTANGLE ✓1

1 FREEHAND

PAPER 1 QUESTION 1
GRADE 12
DBE MAY/JUNE 2025
MARKING GUIDELINES



Please turn over

Please turn over

FLOOR PLAN			
1	DOORS +	12	
2	FIXTURES	7 ½	
3	ELECTRICAL	10 ½	
4	HATCHING	3	
5	LABELS	2 ½	
SUBTOTAL		35 ½	

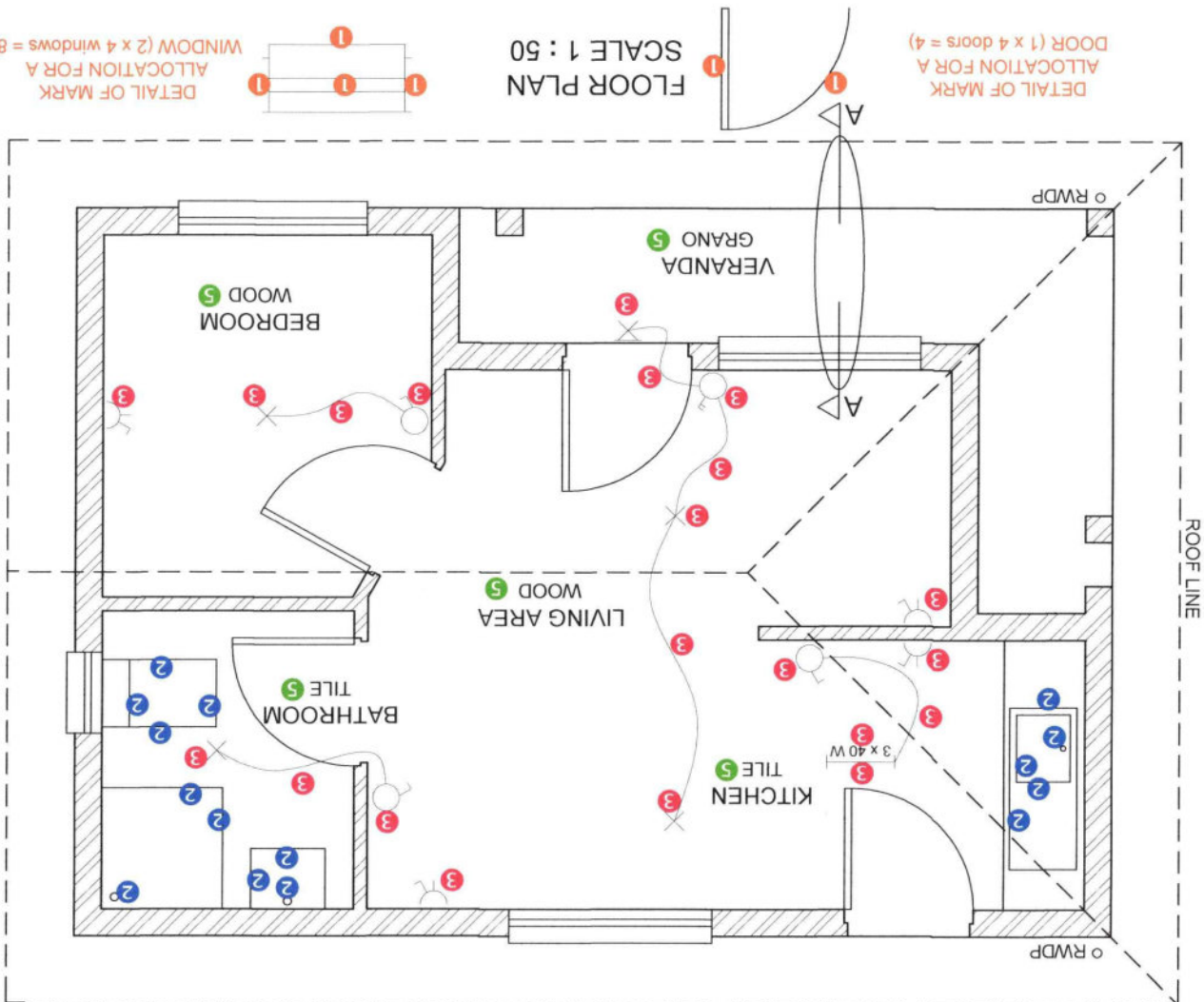
4 HATCHING ALLOCATION
SANS COMPLIANT (TYPE)
HATCHING CORRECTLY APPLIED 2
TOTAL 3

DETAIL OF MARK
ALLOCATION FOR A
WINDOW (2 x 4 windows = 8)



FLOOR PLAN
SCALE 1 : 50

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



SOUTH ELEVATION		
1	ROOF + RWDP + BEAM	7
2	WALLS + FFL + VERANDA	5
3	DOOR + WINDOW	10
4	LABELS	1
SUBTOTAL		23

SOUTH ELEVATION

56 mm

48 mm

FFL

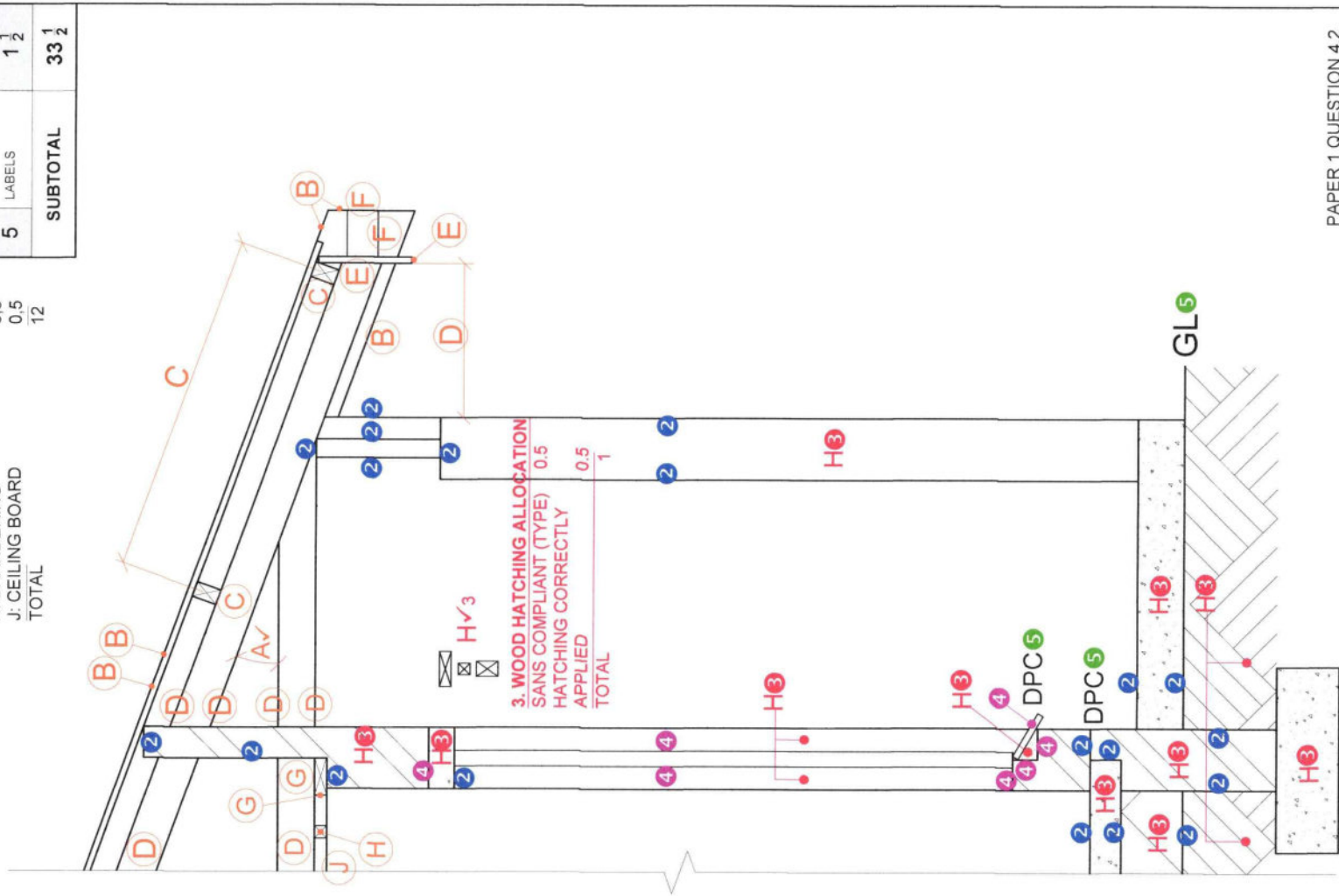
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PAPER 1 QUESTION 4.1.2
GRADE 12
DBE MAY/JUNE 2025
MARKING GUIDELINES

1. MARK ALLOCATION FOR ROOF

- A: ROOF ANGLE 1
- B: ROOF SHEET + BARGE BOARD 2
- C: PURLIN + SPACING 1,5
- D: TRUSS + OVERHANG 3,5
- E: FASCIA 1
- F: GUTTER 1
- G: WALL PLATE 1
- H: BRANDERING 0,5
- J: CEILING BOARD 0,5
- TOTAL 12

DETAILED SECTION		
1	ROOF DETAIL	12
2	SLAB + WALL+ VERANDA	10
3	HATCHING	6 1/2
4	WINDOW	3 1/2
5	LABELS	1 1/2
SUBTOTAL		33 1/2



SECTION A-A
SCALE 1 : 20

PAPER 1 QUESTION 4.2
GRADE 12
DBE MAY/JUNE 2025
MARKING GUIDELINES