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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2023

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 8 pages.



ANSWERS		
1	acearc@africa.com / ACEARC@AFRICA.COM	1
2	1 : 450	1
3	30/01/2023	1
4	QUALITY STREET	1
5	351	1
6	<u>BRICK</u> PAVING	1
7	3	1
8	SPEED <u>HUMP</u>	1
9	1 : 40	1
10	2500	1
11	GULLY	1
12	EVERGREEN <u>TREE</u> (TREE = $\frac{1}{2}$)	1
13	ADJACENT BUILDING / <u>CIVIL</u> STRUCTURE	1
14	<u>EXISTING</u> SEWER LINE	1
15	0,15	1
16	RED	1
17	SOUTH EAST / EAST-SOUTH-EAST / SE	2
18	1800	2
19	See below	3
20		3
21		4
TOTAL		30

ANSWER 19

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$P = AB + BC + CD + DE + EA$$

$$= 40 + 48 + 23,34 + 7,5 + 44,56$$

$$= 163,4 \quad \text{ANSWER IN METRES} \quad \checkmark$$

ANSWER 20

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$A = (10 \times 9,2) + (7,4 \times 4) + (6,2 \times 3,2)$$

$$= 92 + 29,6 + 19,84$$

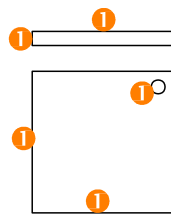
$$= 141,44 \text{ m}^2 \quad \text{ANSWER IN SQUARE METRES} \quad \checkmark$$

ANSWER 21

NOT FAOP

$$= -\frac{1}{2}$$

(a)



1 FREEHAND

(b)



PAPER 1 QUESTION 1
GRADE 12
NOVEMBER 2023
MARKING GUIDELINES

ASSESSMENT CRITERIA

	1	2	3	TOTAL
SECTIONAL TOP VIEW	15 ½			
FRONT VIEW		8 ½		
SECTIONAL LEFT VIEW			14	
TOTAL				38

PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2023
MARKING GUIDELINES

RV/P

PP

HL

POSITION ON HL
LABEL 1 LVP

GL

RV/P

POSITION ON HL
RVP 1 LABEL

CURVE-
CONSTRUCTION

✓5

4

3

5

2

CURVE
QUALITY

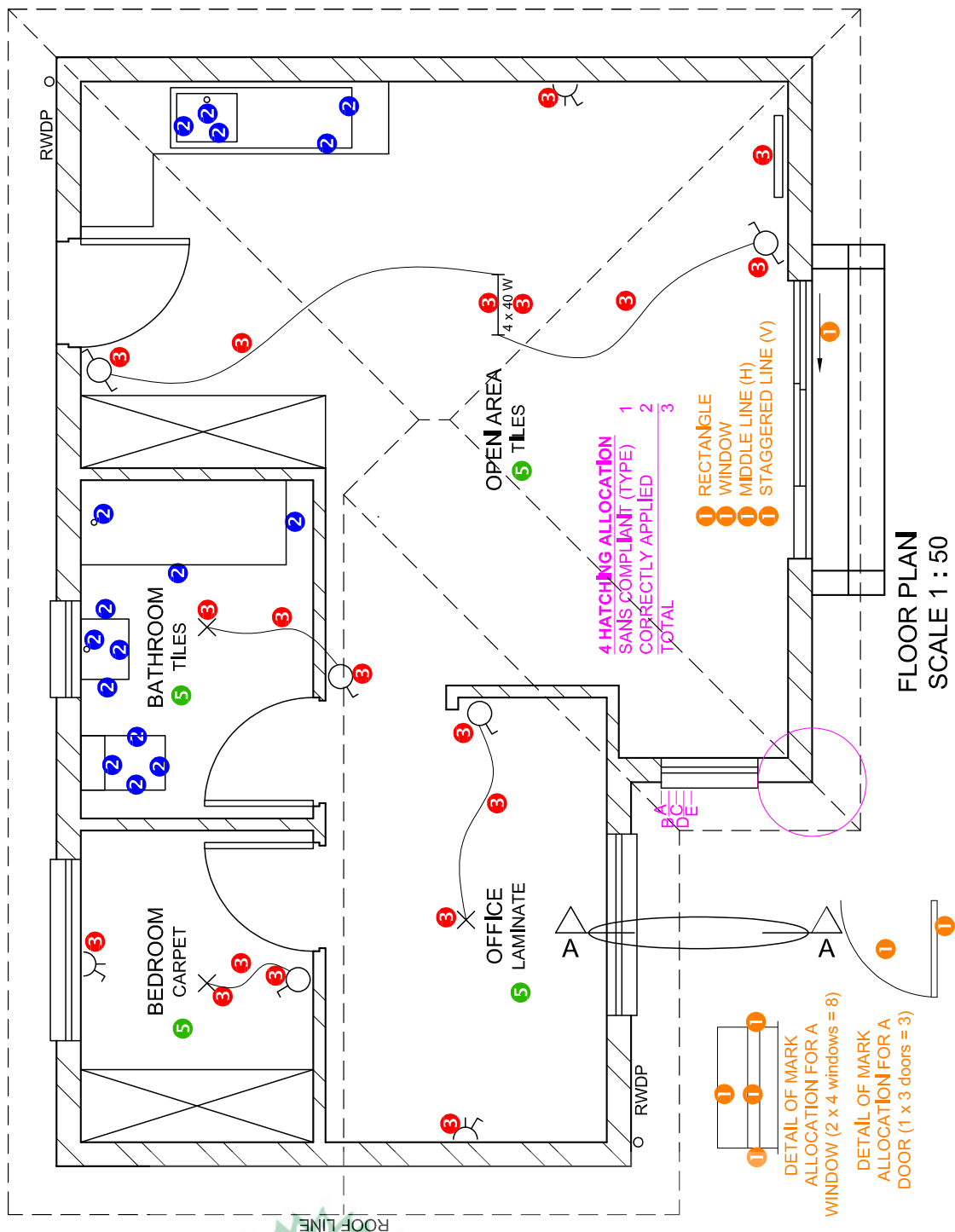
SP

LVP

ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	FLOOR	11
3	WALLS	8 $\frac{1}{2}$
4	ROOF	4 $\frac{1}{2}$
5	WINDOWS + ARC	10
TOTAL		40

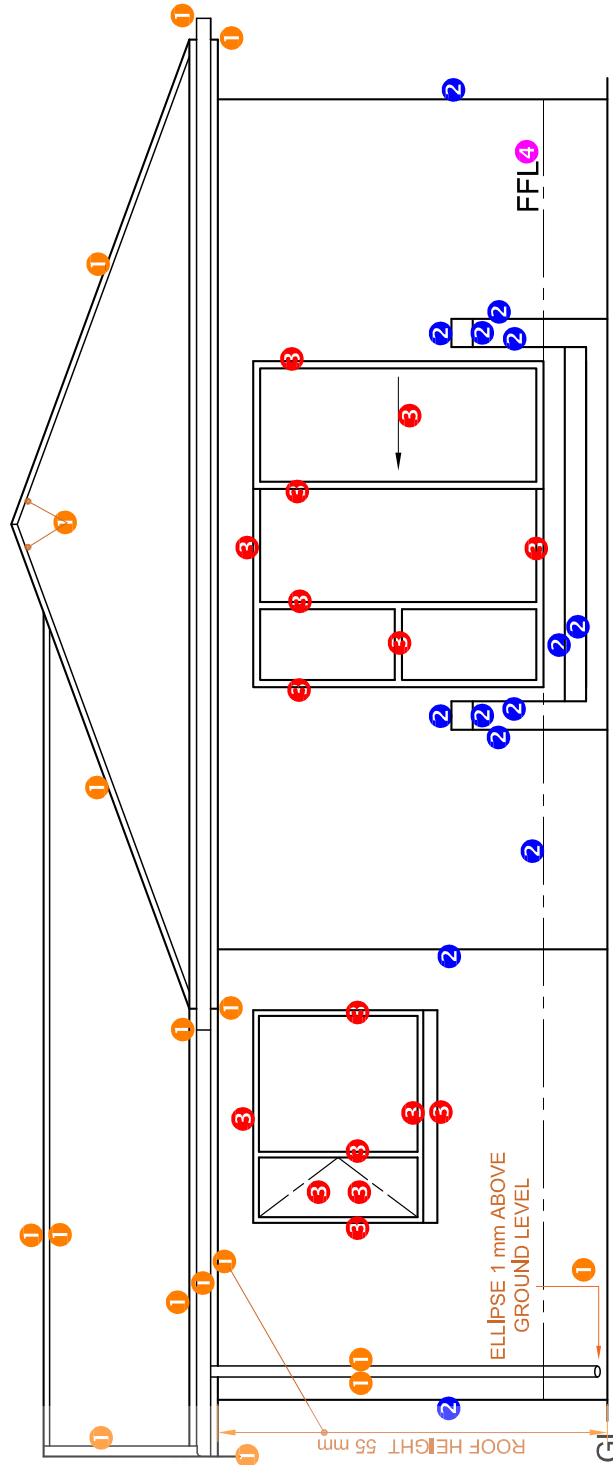
PAPER 1 QUESTION 3
GRADE 12
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MARKING GUIDELINES

SA EXAM
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ASSESSMENT CRITERIA	
FLOOR PLAN	
1	DOORS + WINDOWS 13 1/2
2	FIXTURES 8
3	ELECTRICAL 9 1/2
4	HATCHING 3
5	LABELS 2
SUBTOTAL 36	

PAPER 1 QUESTION 4
GRADE 12
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MARKING GUIDELINES



ASSESSMENT CRITERIA	
NORTH EAST ELEVATION	
1	ROOF + RWDP 8 $\frac{1}{2}$
2	WALLS + STEPS 7
3	DOOR + WINDOW 8
4	LABELS 1 $\frac{1}{2}$
SUBTOTAL	
24	

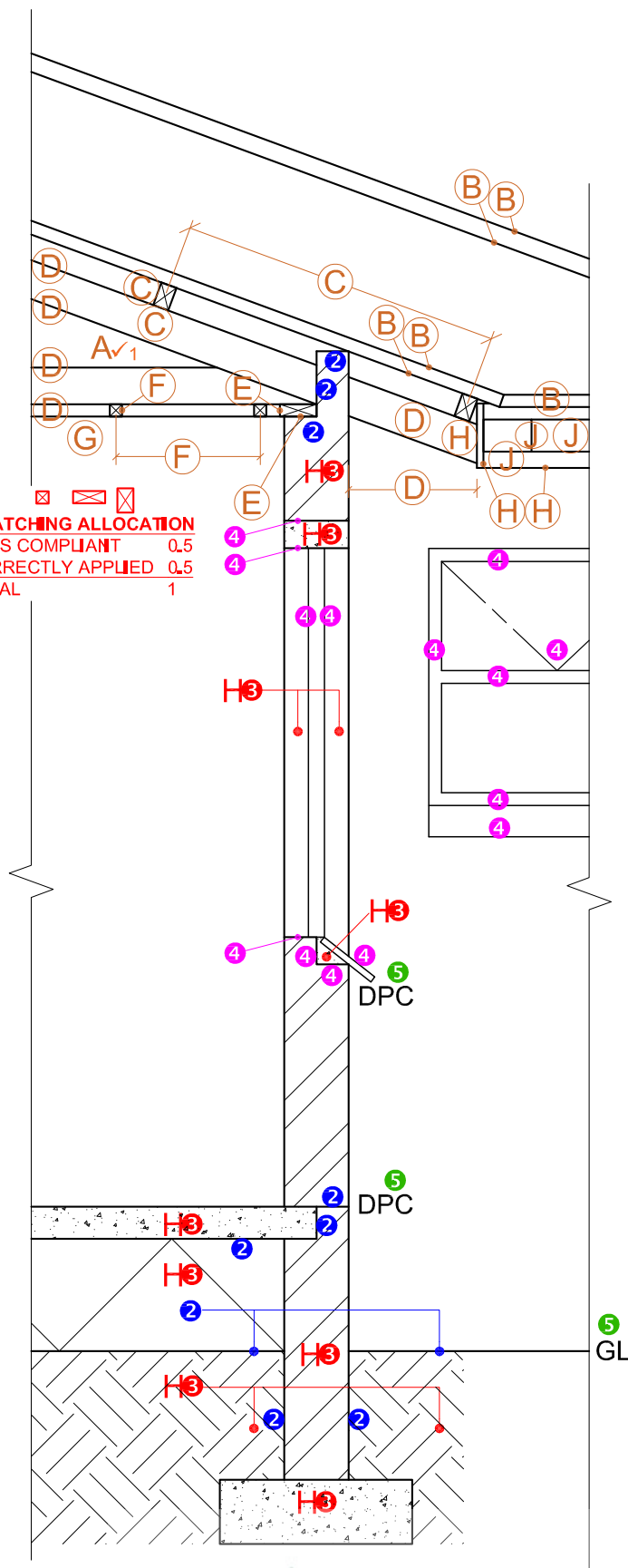
PAPER 1 QUESTION 4
GRADE 12
NOVEMBER 2023
MARKING GUIDELINES

1. MARK ALLOCATION FOR ROOF

A: ROOF ANGLE	1
B: ROOF SHEET + R. CAP	2.5
C: PURLIN + SPACING	1.5
D: TRUSS + OVERHANG	3
E: WALL PLATE	1
F: BRANDING + SPACING	1
G: CEILING BOARD	0.5
H: FACIA	1.5
J: GUTTER	1.5
TOTAL	13.5




3. HATCHING ALLOCATION
 SANS COMPLIANT 0.5
 CORRECTLY APPLIED 0.5
 TOTAL 1



SECTION A-A
SCALE 1 : 20

**ASSESSMENT
CRITERIA**
DETAILED SECTION

1	ROOF DETAIL	13 $\frac{1}{2}$
2	SLAB + WALL	4 $\frac{1}{2}$
3	HATCHING	5 $\frac{1}{2}$
4	WINDOWS	7
5	LABELS	1 $\frac{1}{2}$
SUBTOTAL		32

PAPER 1 QUESTION 4
 GRADE 12
 NOVEMBER 2023
 MARKING GUIDELINES