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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

2021

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 7 pages.

ANSWERS		
1	DRAW/PREPARE SITE PLAN	1
2	INK-ON (PTY) LTD	1
3	2020-11-18	1
4	1 : 300	1
5	www.druloffarch.co.za	1
6	6000	1
7	STAPLE STREET	1
8	5	1
9	METRES (m) and MILLIMETRES (mm)	2
10	DASH LINE/HIDDEN DETAIL	1
11	INCLINE/UP	1
12	EARTH/LIGHTNING CONDUCTOR	1
13	STORMWATER DRAIN	1
14	MH	1
15	BLUE	1
16	SOUTH EAST	2
17	3 or 3 : 48	2
18	See below	3
19		4
20		3
TOTAL		30

ANSWER 18

Show ALL calculations.

APPLYING CORRECT FORMULE ✓

$$\begin{aligned}
 &= 24,77 + 48 + 20,77 \\
 &+ 5,65 + 44 \\
 &= 143,19 \quad \checkmark \quad \text{m} \quad \checkmark
 \end{aligned}$$

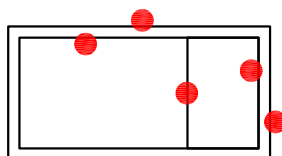
ANSWER 19

Show ALL calculations.

APPLYING CORRECT FORMULE ✓✓

$$\begin{aligned}
 &= (6 \times 6) + (10,5 \times 12) + (8,75 \times 4,5) + \\
 &\quad (6 \times 6) \\
 &= 237,38 \quad \checkmark \text{m}^2 \quad \checkmark
 \end{aligned}$$

ANSWER 20



● FREEHAND

AUXILIARY VIEW:
HEXAGON 1
CIRCLE WITH DIVISIONS 1
TOTAL 2

ANY RECOGNIZED METHOD CAN BE USED

ASSESSMENT CRITERIA

1	AUXILIARY VIEW	2
2	FRONT VIEW	5
3	SECTIONAL TOP VIEW	16
4	RIGHT VIEW	13
TOTAL		36

PAPER 1 QUESTION 2
GRADE 12
2021
MARKING GUIDELINES

PP

HL

GL

SP

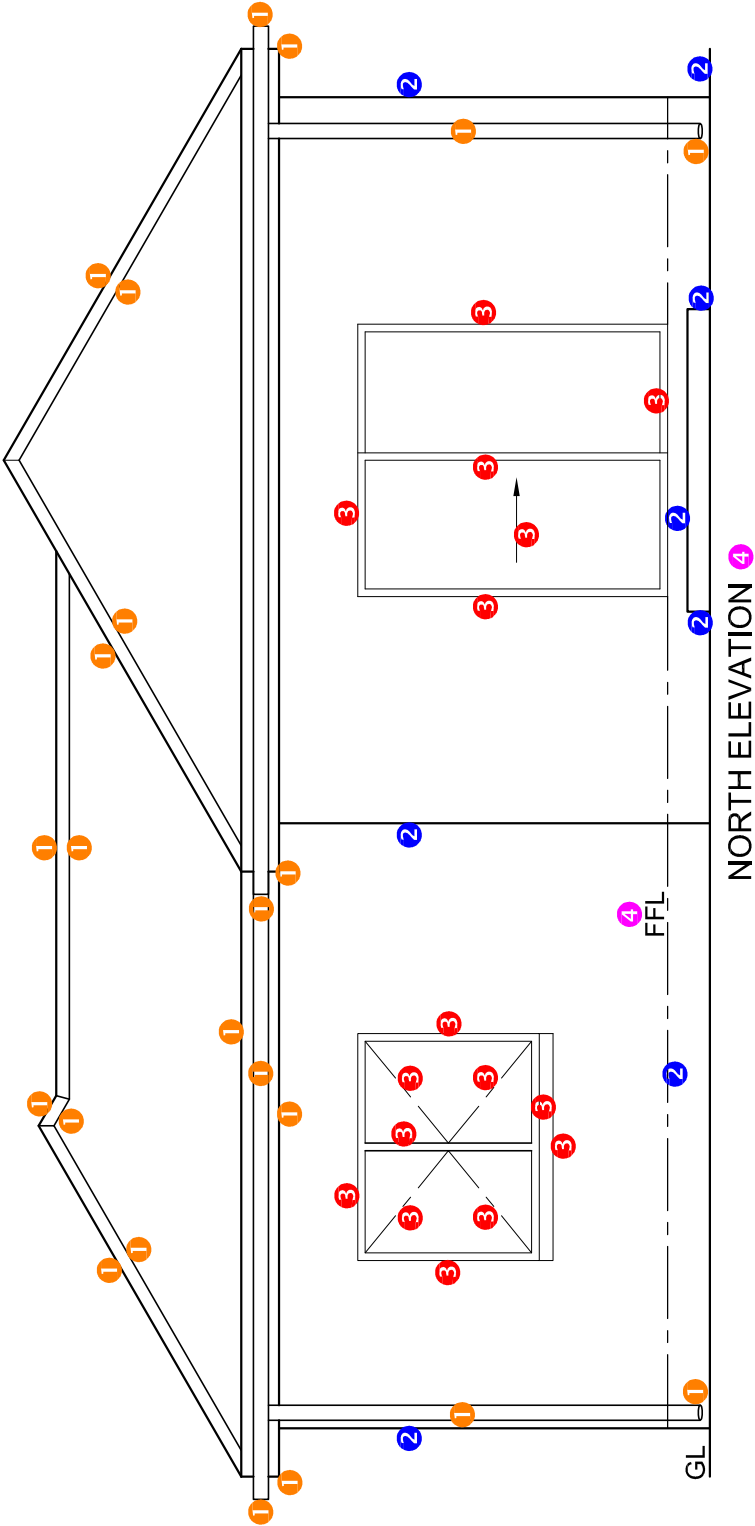
✓5 CURVE QUALITY

ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	LOWER SECTION	15
3	UPPER SECTION	6
4	ROOF	4 $\frac{1}{2}$
5	ARC	7 $\frac{1}{2}$
TOTAL		39

PAPER 1 QUESTION 3
GRADE 12
2021
MARKING GUIDELINES



PAPER 1 QUESTION 4
GRADE 12
2021
MARKING GUIDELINES



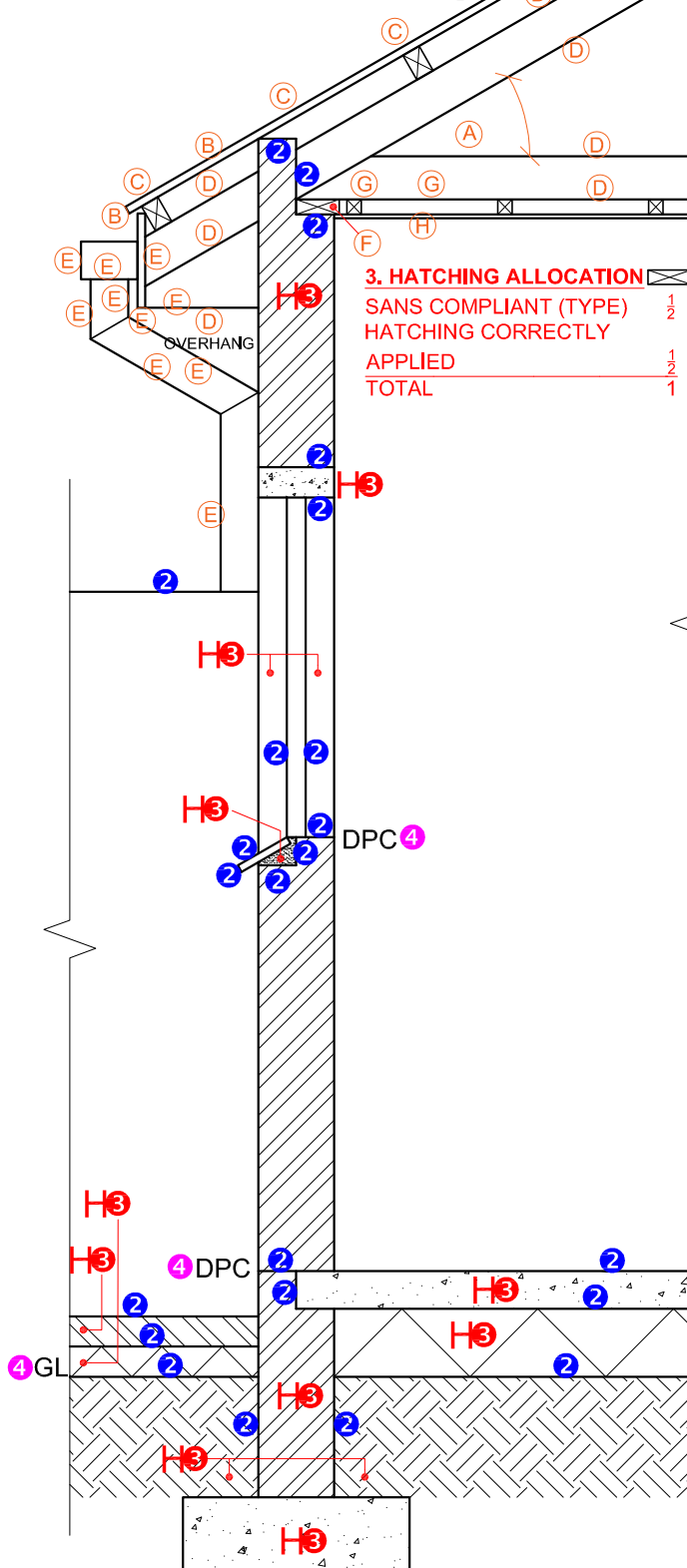
NORTH ELEVATION			
1	ROOF + RWDP	11 1/2	
2	WALLS + STEP + FFL	4	
3	DOOR + WINDOW	8	
4	LABELS	1	
SUBTOTAL		24 1/2	

1. MARK ALLOCATION FOR ROOF

A: ROOF ANGLE	1
B: ROOF SHEET	1
C: PURLIN + SPACING	1 $\frac{1}{2}$
D: TRUSS + OVERHANG	3 $\frac{1}{2}$
E: FASCIA BOARD + GUTTER + RWDP	5
F: WALL PLATE	1
G: BRANDING + SPACING	1
H: CEILING BOARD	$\frac{1}{2}$
TOTAL	14 $\frac{1}{2}$

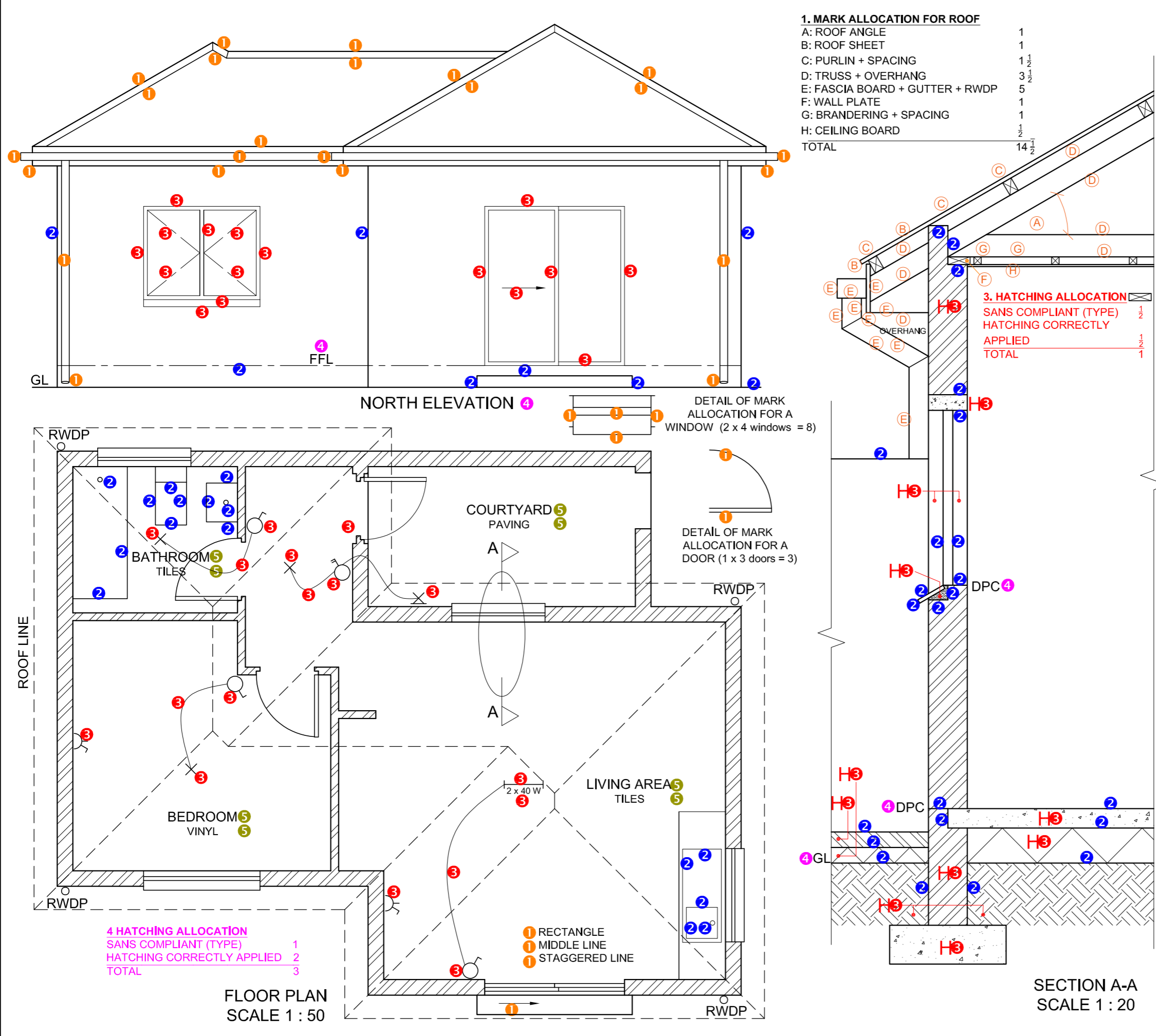
DETAILED SECTION

1	ROOF DETAIL	14 $\frac{1}{2}$
2	SLAB + WALL + WINDOW	11 $\frac{1}{2}$
3	HATCHING	6 $\frac{1}{2}$
4	LABELS	1 $\frac{1}{2}$
SUBTOTAL		34



SECTION A-A
SCALE 1 : 20

PAPER 1 QUESTION 4
GRADE 12
2021
MARKING GUIDELINES



MARK ALLOCATION FOR SECTION OF ROOF		FOR OFFICIAL USE ONLY	
A		INCORRECT SCALE(S) USED	
B		NON-ALIGNMENT OF VIEWS	
C		VIEW(S) ROTATED	
D		SECTION VIEWED INCORRECTLY	
E		INCORRECT LETTERING	
F		SC = 1 MARK PENALTY ON EITHER SIDE FOR THE LINES NOT TOUCHING THE BREAK LINES	
G			
H			
TOTAL		TOTAL	

ASSESSMENT CRITERIA				
FLOOR PLAN				
		POSSIBLE	OBTAINED	SIGN MODERATED
1	DOORS + WINDOWS	13		
2	FIXTURES	8		
3	ELECTRICAL	8 1/2		
4	HATCHING	3		
5	LABELS	4		
SUBTOTAL		36 1/2		
NORTH ELEVATION				
1	ROOF + RWDP	11 1/2		
2	WALLS + STEP + FFL	4		
3	DOOR + WINDOW	8		
4	LABELS	1		
SUBTOTAL		24 1/2		
DETAILED SECTION				
1	ROOF DETAIL	14 1/2		
2	SLAB + WALL + WINDOW	11 1/2		
3	HATCHING	6 1/2		
4	LABELS	1 1/2		
SUBTOTAL		34		
TOTAL		95		
PENALTIES (-)				
GRAND TOTAL				
EXAMINATION NUMBER				
EXAMINATION NUMBER				