



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

ENGINEERING GRAPHICS AND DESIGN P1

MAY/JUNE 2024

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 8 pages.

ANSWERS		
1	CHECKED	1
2	1 : 500	1
3	08/05/2023	1
4	CONTRACTORS	1
5	6	1
6	2	1
7	INSPECTION EYE	1
8	<u>CLIFF</u> FACE	1
9	SHRUBBERY	1
10	BUILDING LINE	1
11	MUNICIPAL <u>WATER SUPPLY</u>	1
12	1,8	1
13	100	1
14	<u>DIRECTION</u> OF <u>FLOW</u>	1
15	WATER METER	1
16	10	2
17	GREEN	1
18	SSW / SOUTH SOUTH WEST / SOUTH WEST / SW	2
19	See below	3
20		3
21		4
TOTAL		30

ANSWER 19

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$S = P - (S + S + S + S)$$

$$= 173,56 - (48,04 + 47,96 + 25,95 + 34,58)$$

$$= 17,03 \quad \checkmark \quad \checkmark$$

ANSWER 20

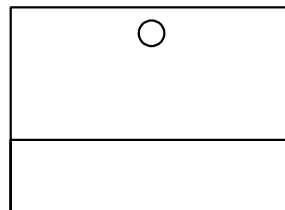
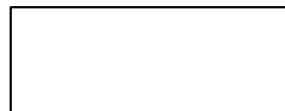
Show ALL calculations.

APPLYING CORRECT FORMULA ✓

$$A = (L \times B) + (L \times B) + \dots$$

$$= (30 \times 13) + (5 \times 10) + (21 \times 10,5) + (9 \times 2)$$

$$= 678,5 \text{ m}^2 \quad \checkmark \quad \checkmark$$

ANSWER 21

FREEHAND

1

RECTANGLE

✓ 1

TOP
RECTANGLE

✓ 1

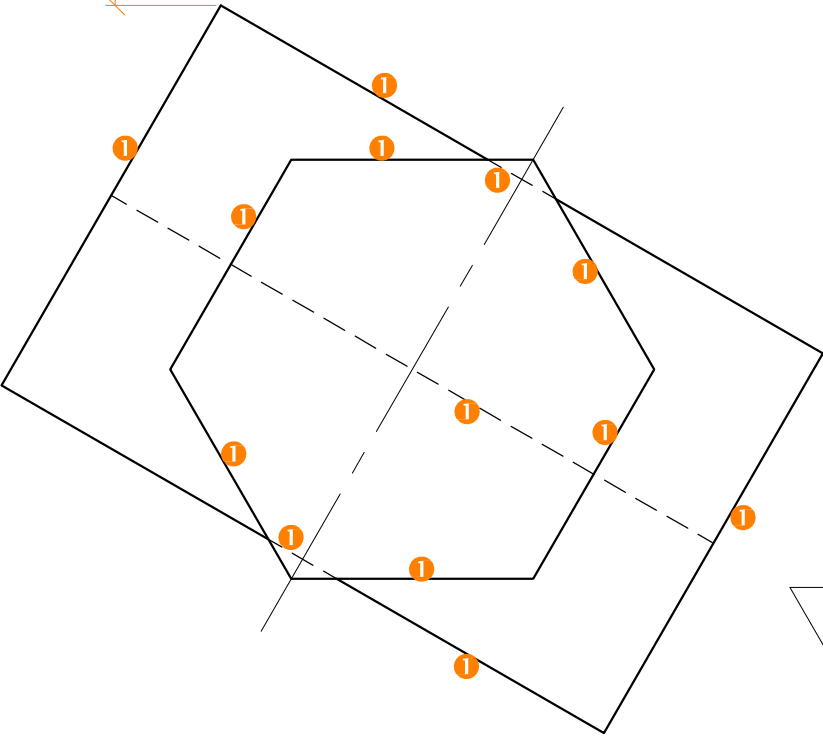
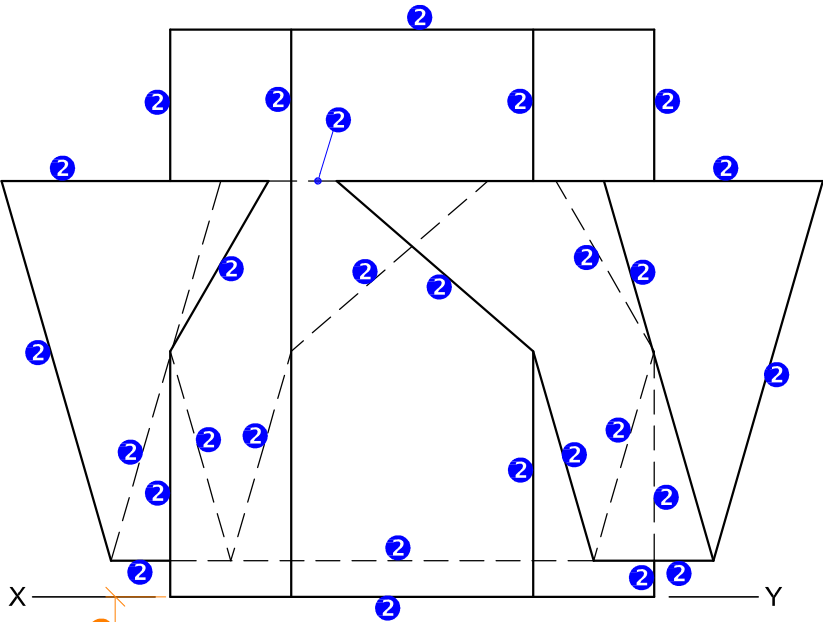
BOTTOM
RECTANGLE

✓ 1

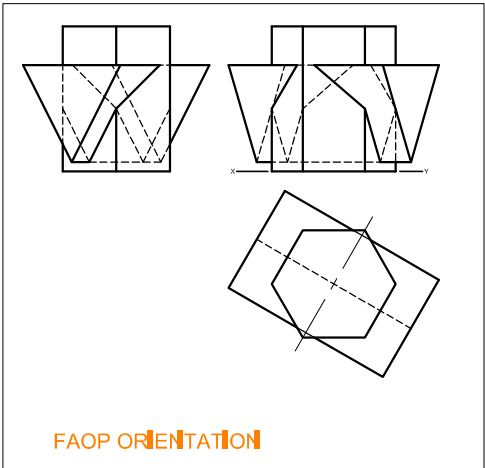
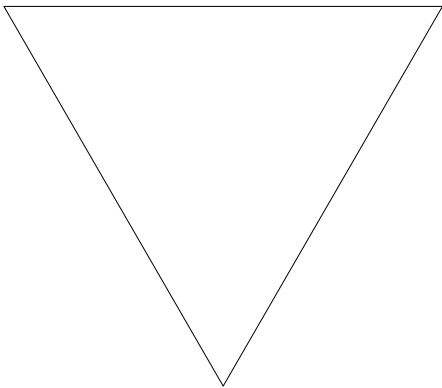
CIRCLE

1

PAPER 1 QUESTION 1
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES

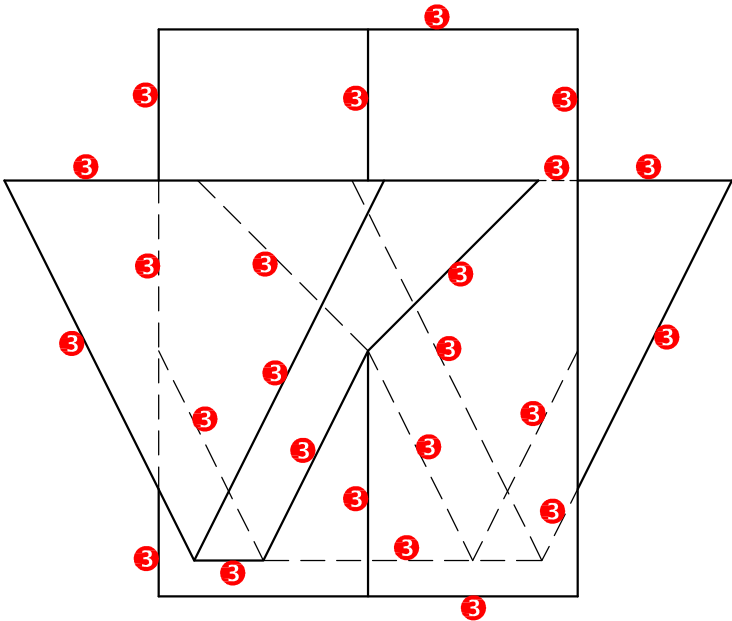


1. CONSTRUCTION
- 30° ANGLE1
- SHAPE OF HEXAGON1
- SHAPE OF TRIANGLE1
- TOTAL3



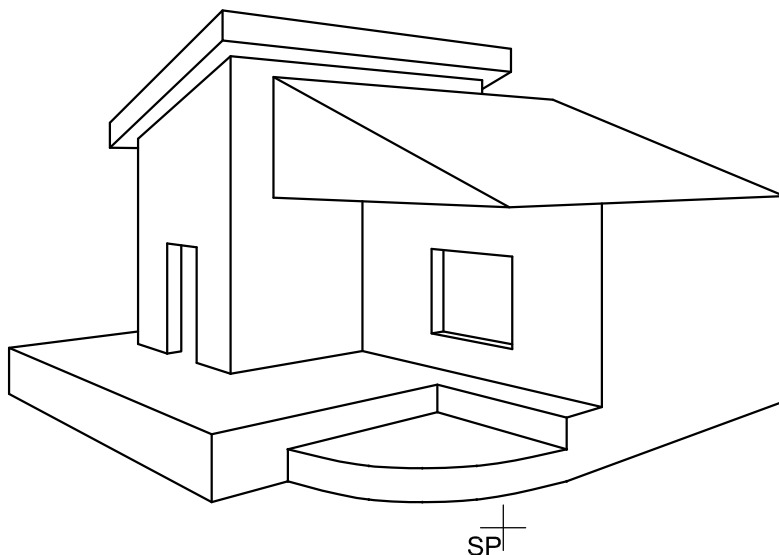
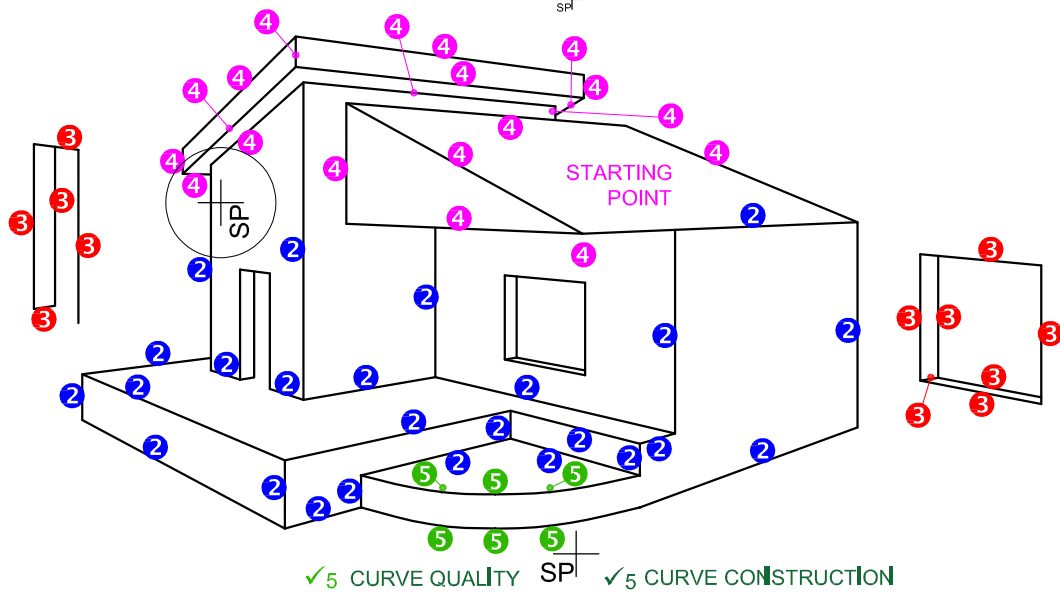
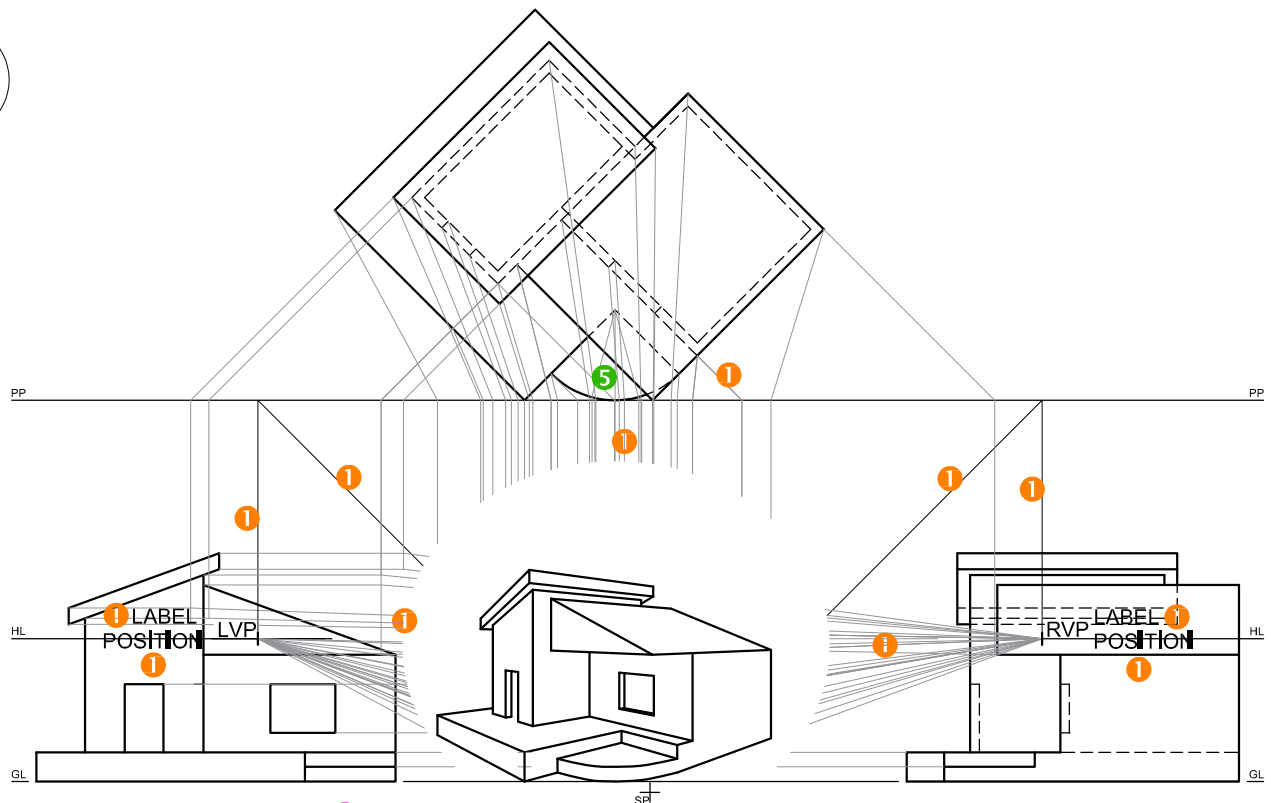
ASSESSMENT CRITERIA		
1	TOP VIEW	10
2	FRONT VIEW	14
TOTAL		24

PAPER 1 QUESTION 2
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES



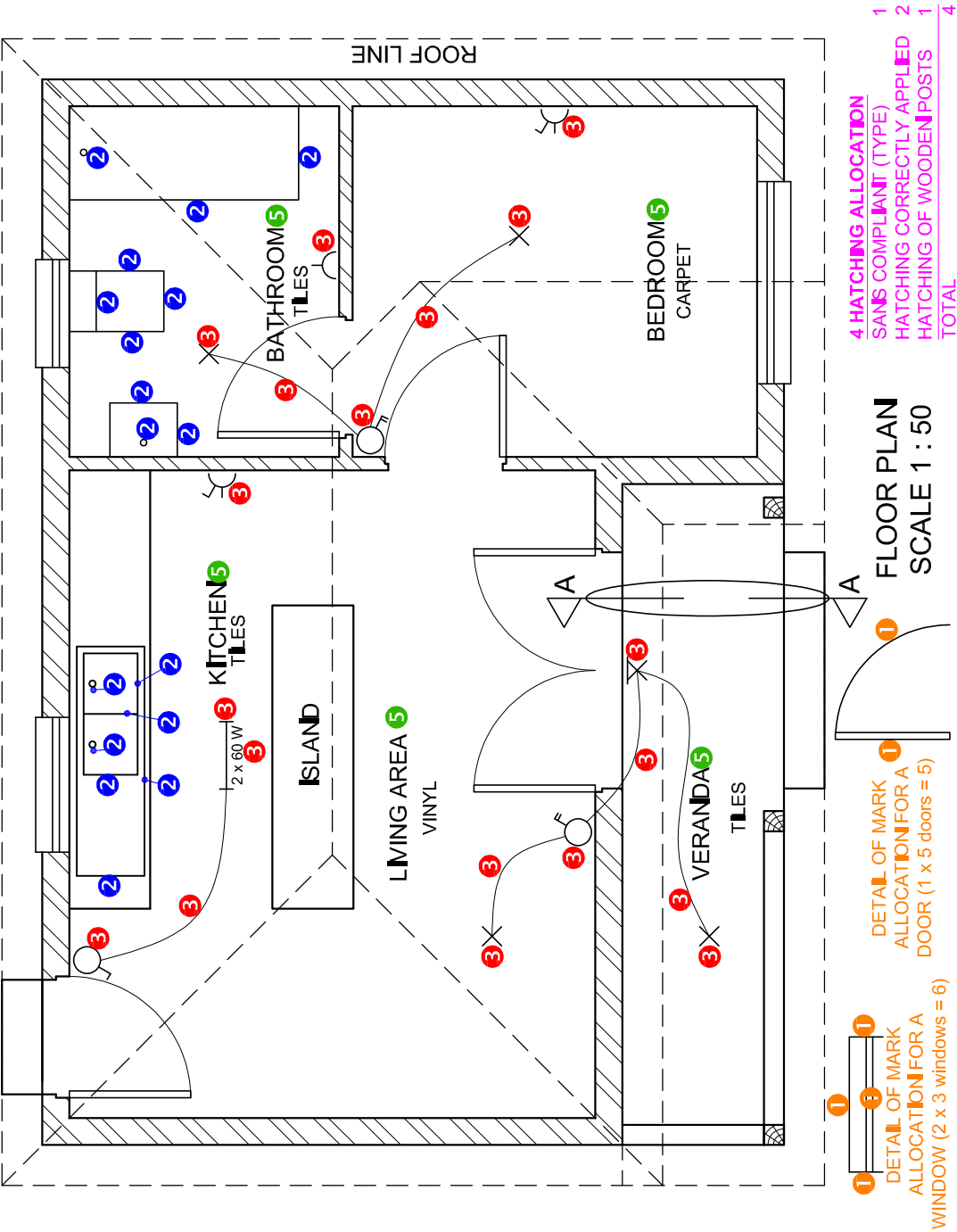
ASSESSMENT CRITERIA		
3	RIGHT VIEW	12
TOTAL		12

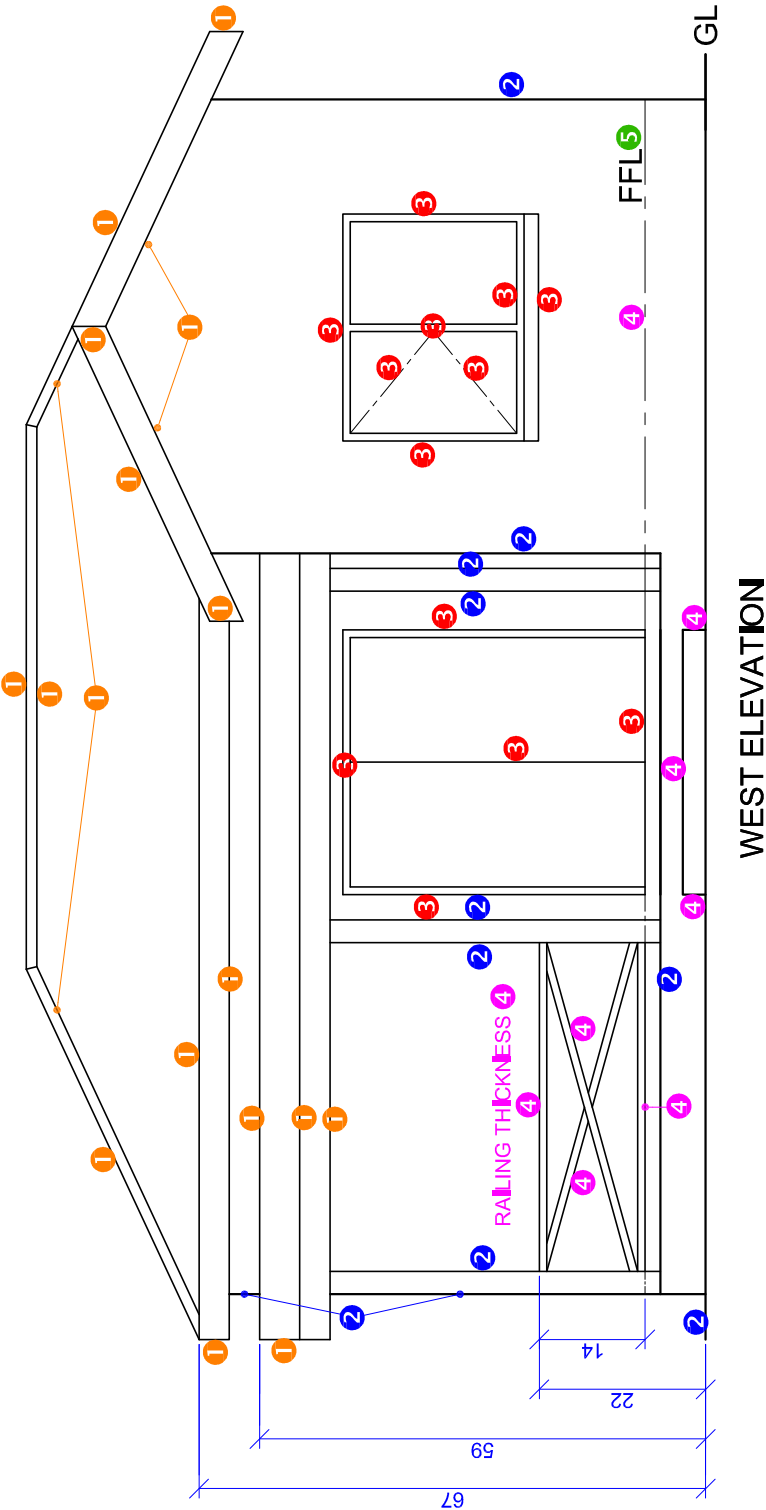
PAPER 1 QUESTION 2
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES



ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	WALL + BASE + STAIRS	12 $\frac{1}{2}$
3	WINDOW + DOOR	6
4	ROOF	9
5	ARC	5 $\frac{1}{2}$
TOTAL		39

PAPER 1 QUESTION 3
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES





ASSESSMENT CRITERIA		
WEST ELEVATION		
1	ROOF + LEAN TO	8 ¹ / ₂
2	WALLS + POSTS + VERANDA	5
3	DOORS + WINDOW	6 ¹ / ₂
4	STEP + FFL + RAILING	4 ¹ / ₂
5	LABELS	1 ¹ / ₂
SUBTOTAL		25

PAPER 1 QUESTION 4
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES

1. MARK ALLOCATION FOR ROOF

A: ROOF ANGLE

1

B: ROOF SHEET

1

C: PURLIN

1

D: TRUSS + OVERHANG

3

E: WALL PLATE

1

F: BRANDING

0.5

G: CEILING BOARD

0.5

H: FASCIA

1.5

J: LEAN TO ROOF

5.5

TOTAL

15

3. WOOD HATCHING ALLOCATION

SANS COMPLIANT (TYPE)

0.5

HATCHING CORRECTLY APPLIED

0.5

TOTAL

1

The drawing shows a detailed section of a roof and wall. The roof is labeled with 'B' for roof sheet, 'C' for purlin, 'D' for truss + overhang, 'E' for wall plate, 'F' for branding, 'G' for ceiling board, 'H' for fascia, and 'J' for lean to roof. Dimensions include '55' for the total height, '35' for the wall height, and 'RAILING THICKNESS 4'. The wall is labeled with '2' for the wall itself, 'H3' for the height, and 'DPC' for the damp proof course. The floor is labeled with 'GL' for ground level. The drawing also includes a hatching pattern for the roof and wall, and a cross-hatching pattern for the floor.

ASSESSMENT CRITERIA		
DETAILED SECTION		
1	ROOF DETAIL	15
2	SLAB + WALL + STEPS + B/L	10
3	HATCHING	5 1/2
4	RAILING	3
5	LABELS	1
SUBTOTAL		34 1/2

PAPER 1 QUESTION 4

GRADE 12

DBE MAY/JUNE 2024

MARKING GUIDELINES