



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	See below	3
19		4
20		4
TOTAL		30

ANSWER 18

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

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

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

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

ANSWER 19

Show ALL calculations.

APPLYING CORRECT FORMULA ✓

EXISTING BUILDING AREA

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

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

$$= 184,83$$

TOTAL AREA

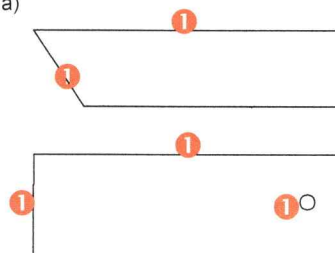
$$= 184,83 + 41,59 ✓$$

$$= 226,42 \text{ m}^2 ✓$$

ANSWER IN SQUARE METRES (m²) ✓

ANSWER 20

a)



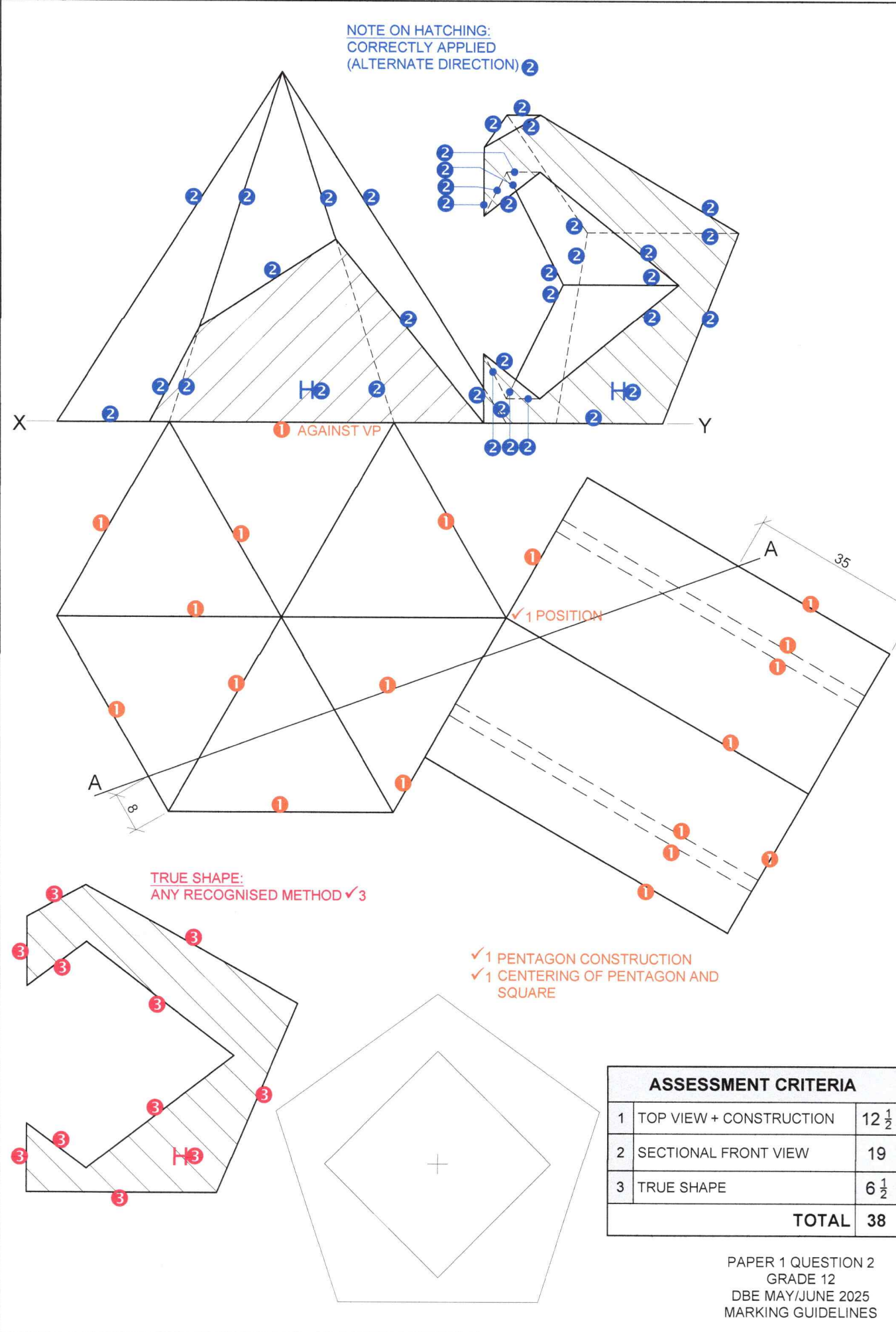
b)

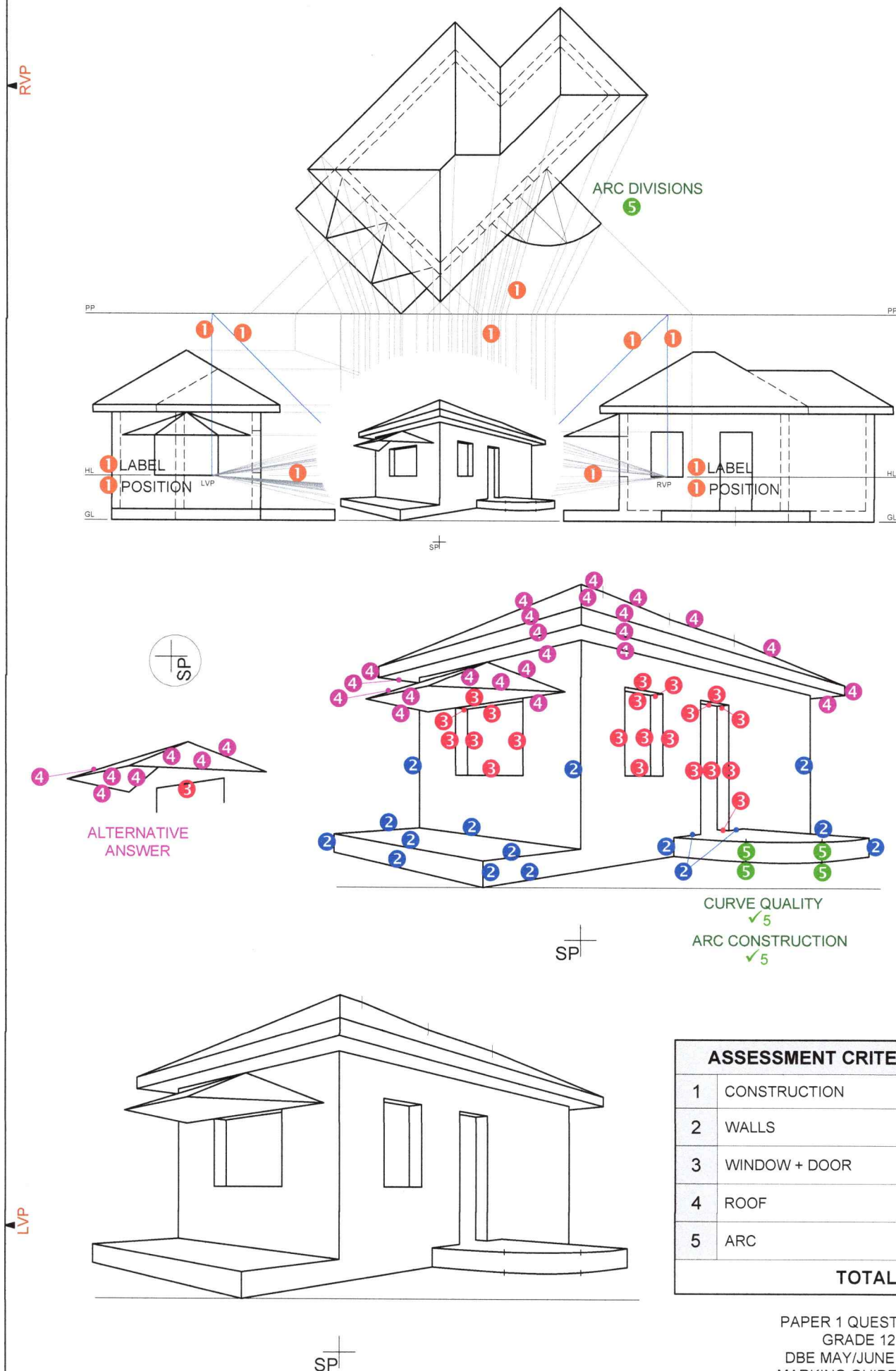


RECTANGLE ✓1

1 FREEHAND

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





ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	WALLS	7 $\frac{1}{2}$
3	WINDOW + DOOR	10 $\frac{1}{2}$
4	ROOF	11 $\frac{1}{2}$
5	ARC	4 $\frac{1}{2}$
TOTAL		40

PAPER 1 QUESTION 3
 GRADE 12
 DBE MAY/JUNE 2025
 MARKING GUIDELINES

FLOOR PLAN		
1	DOORS + WINDOWS	12
2	FIXTURES	7 $\frac{1}{2}$
3	ELECTRICAL	10 $\frac{1}{2}$
4	HATCHING	3
5	LABELS	2 $\frac{1}{2}$
SUBTOTAL		35 $\frac{1}{2}$

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

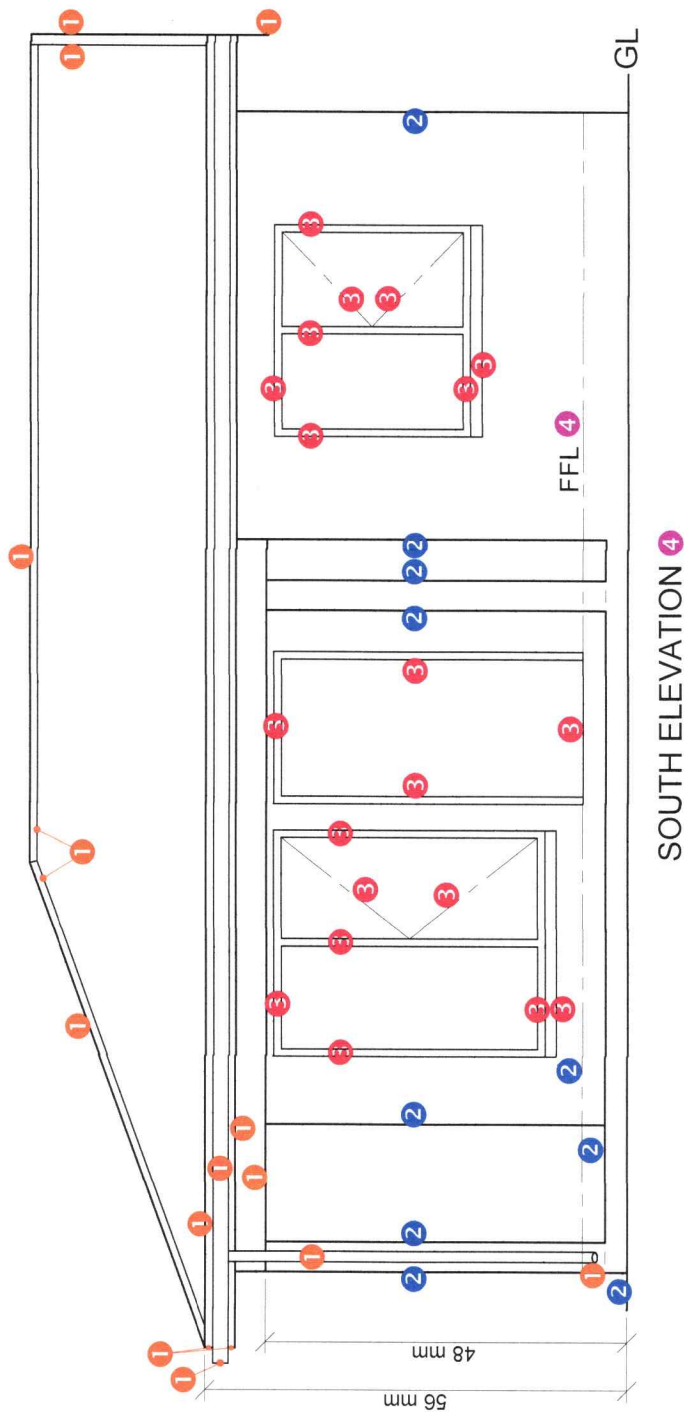
DETAIL OF MARK ALLOCATION FOR A WINDOW (2 x 4 windows = 8)

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

FLOOR PLAN SCALE 1 : 50

PAPER 1 QUESTION 4.1.1
GRADE 12
DBE MAY/JUNE 2025
MARKING GUIDELINES

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

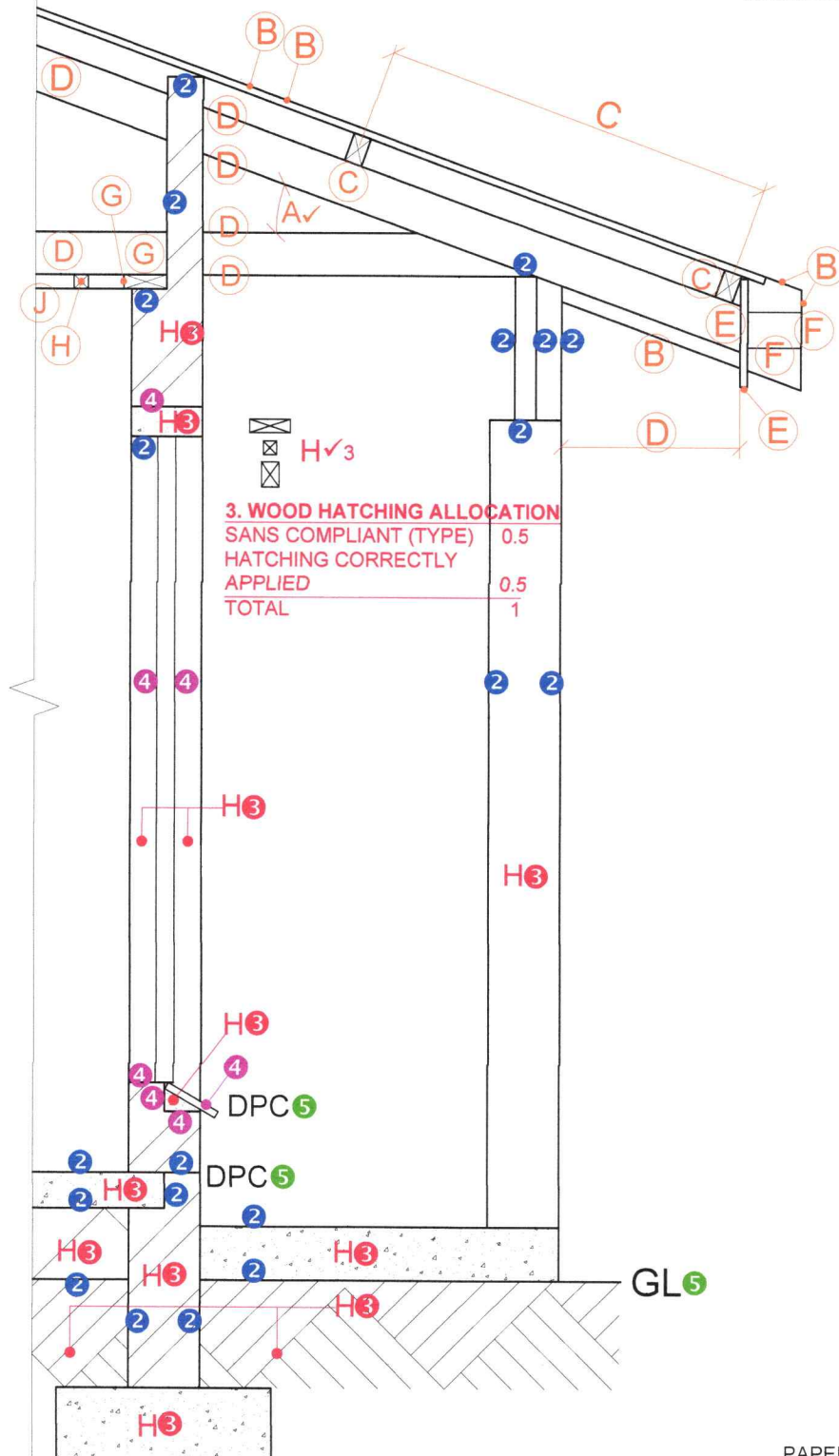


DETAILED SECTION

1	ROOF DETAIL	12
2	SLAB + WALL + VERANDA	10
3	HATCHING	6 $\frac{1}{2}$
4	WINDOW	3 $\frac{1}{2}$
5	LABELS	1 $\frac{1}{2}$
SUBTOTAL		33 $\frac{1}{2}$

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



SECTION A-A
SCALE 1 : 20

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