



# 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**

<b>DEPARTMENT OF BASIC EDUCATION</b>
PRIVATE BAG X695, PRETORIA 0001
2024 -05 - 14
APPROVED MARKING GUIDELINE
<b>PUBLIC EXAMINATION</b>

**MARKS: 100**

**These marking guidelines consist of 8 pages.**

AB [Signature] [Signature] [Signature]

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 FACE</u>	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 OF FLOW</u>	1
15	WATER METER	1
16	10	2
17	GREEN	1
18	SSW / SOUTH SOUTH WEST / SOUTH WEST / SW	2
19		3
20	See below	3
21		4
<b>TOTAL</b>		<b>30</b>

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**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 ✓

$$A = (LxB) + (LxB) + \dots$$

$$= (30 \times 13) + (5 \times 10) + (21 \times 10.5) + (9 \times 2)$$

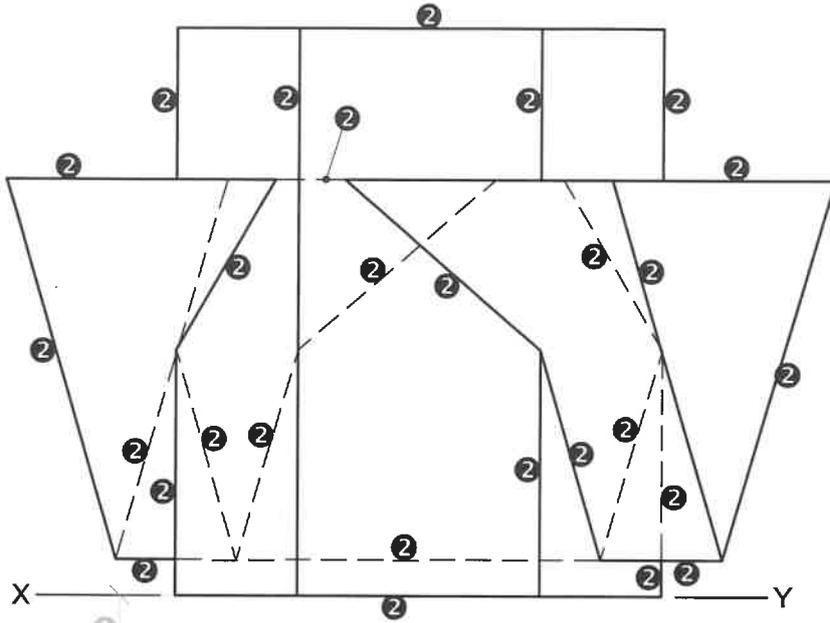
$$= 678,5 \text{ m}^2$$

**ANSWER 21**

- FREEHAND 1
- RECTANGLE ✓1
- TOP RECTANGLE ✓1
- BOTTOM RECTANGLE ✓1
- CIRCLE 1

AB
P
S
W

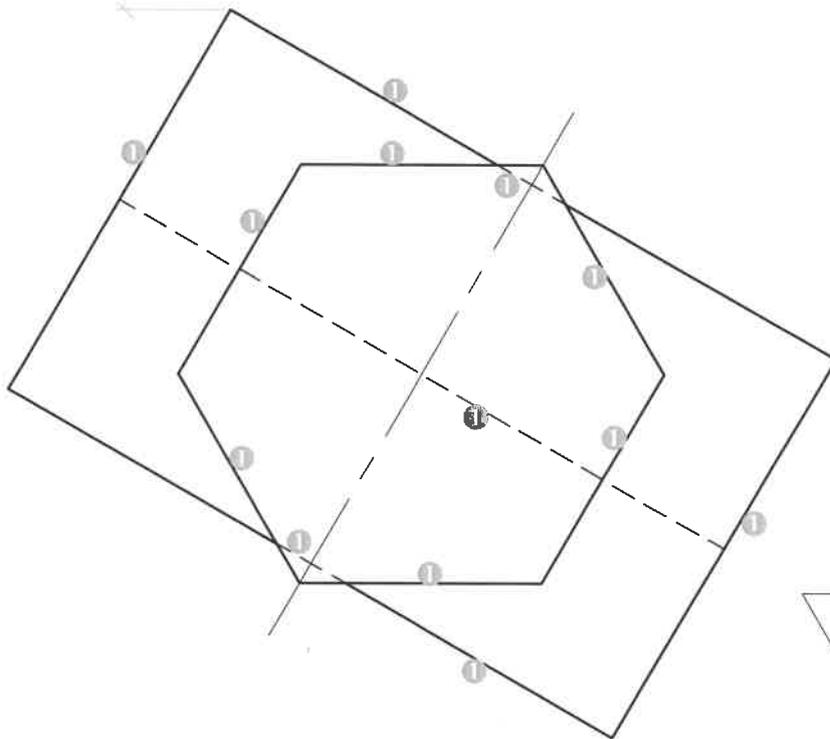
PAPER 1 QUESTION 1  
 GRADE 12  
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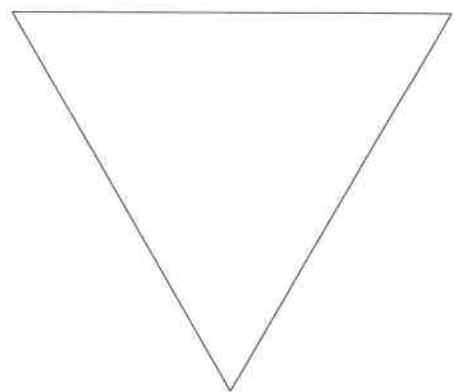
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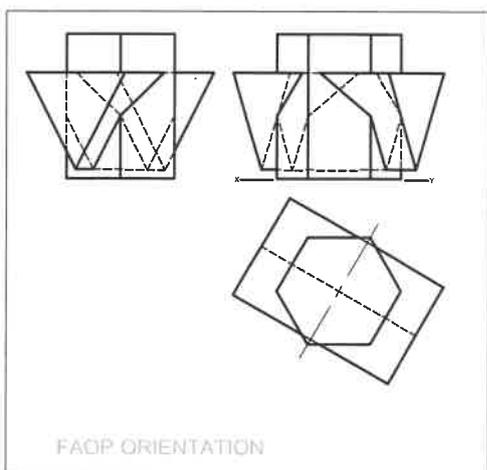


- 1. CONSTRUCTION
- 30° ANGLE 1
- SHAPE OF HEXAGON 1
- SHAPE OF TRIANGLE 1
- TOTAL 3

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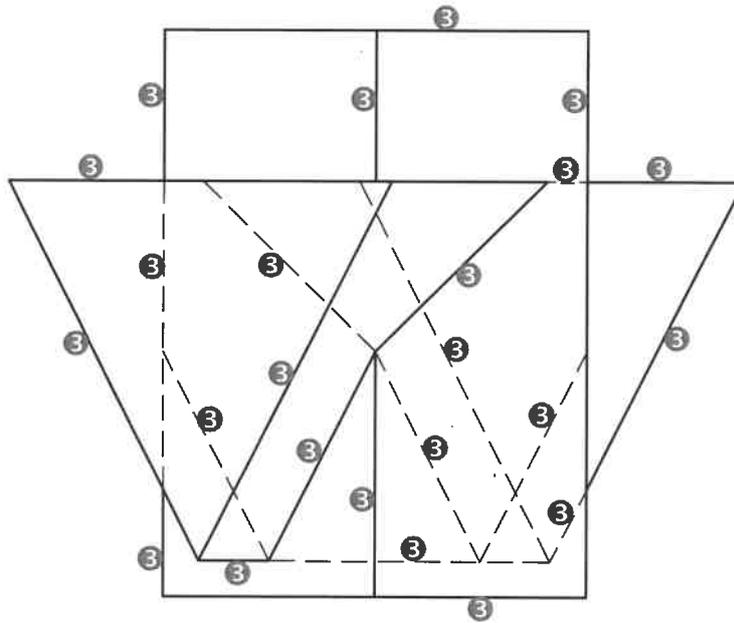
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ASSESSMENT CRITERIA		
1	TOP VIEW	10
2	FRONT VIEW	14
<b>TOTAL</b>		<b>24</b>

PAPER 1 QUESTION 2  
 GRADE 12  
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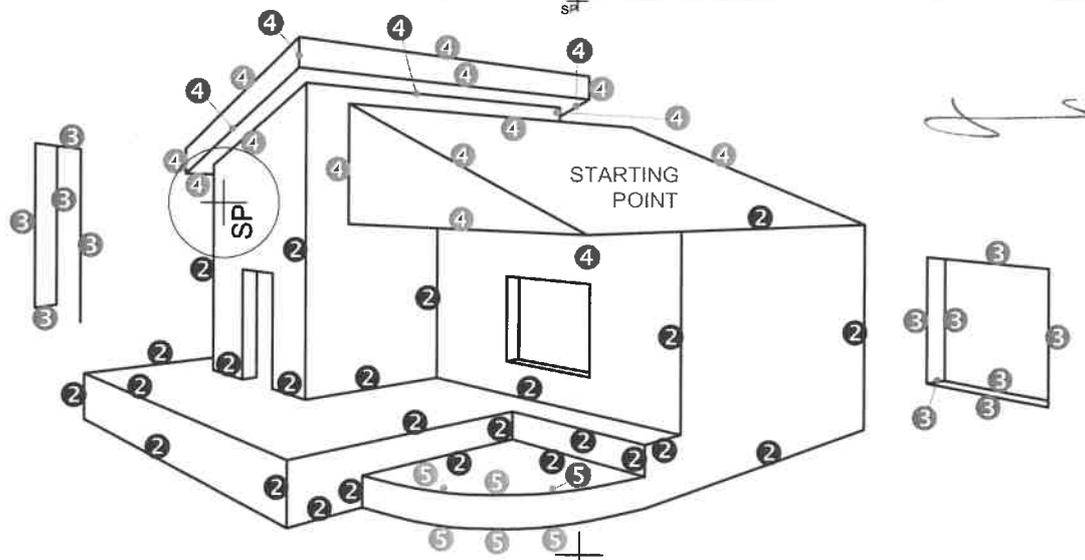
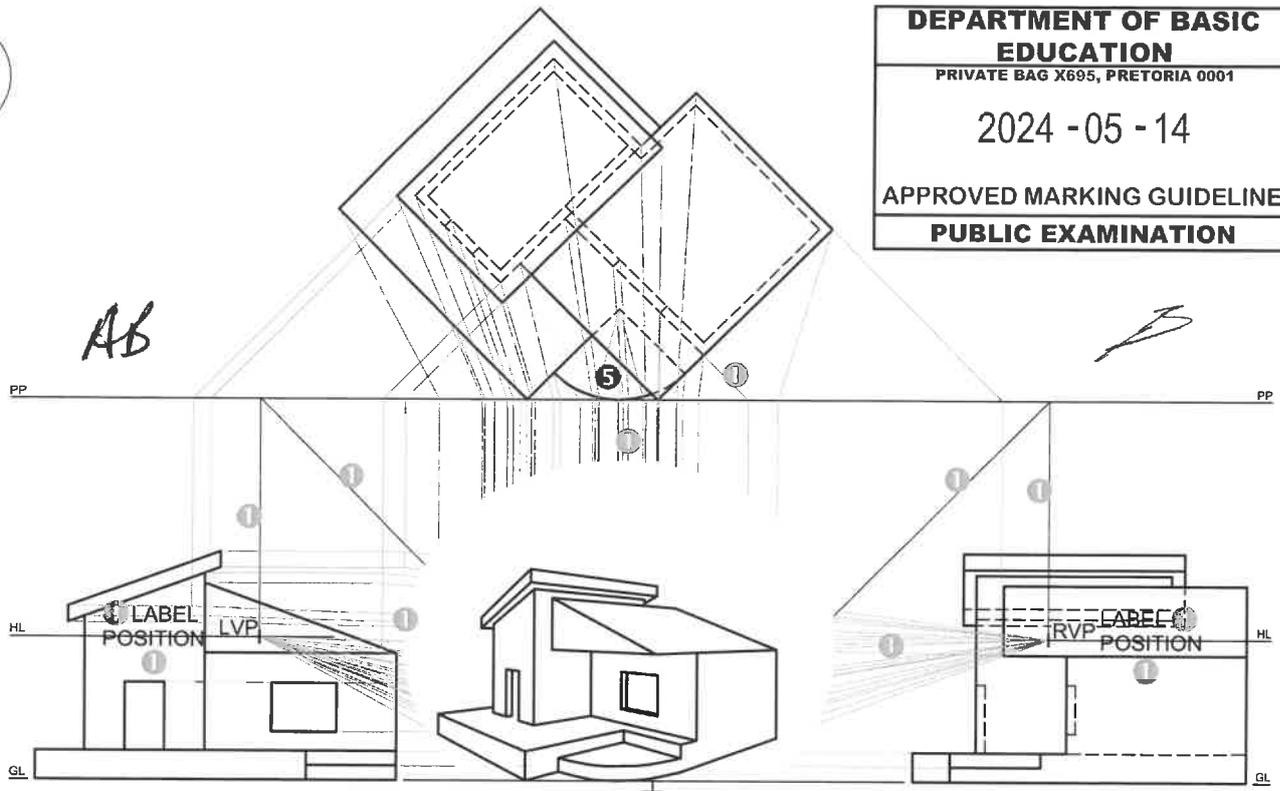
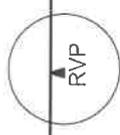
ASSESSMENT CRITERIA		
3	RIGHT VIEW	12
<b>TOTAL</b>		<b>12</b>

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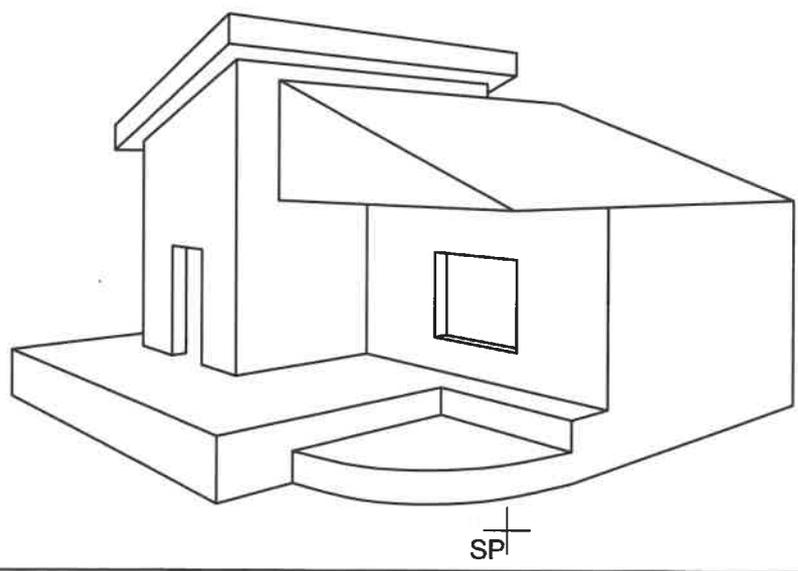
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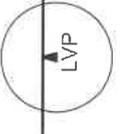
✓ 5 CURVE QUALITY SP ✓ 5 CURVE CONSTRUCTION

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ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	WALL + BASE + STAIRS	12 1/2
3	WINDOW + DOOR	6
4	ROOF	9
5	ARC	5 1/2
<b>TOTAL</b>		<b>39</b>

PAPER 1 QUESTION 3  
GRADE 12  
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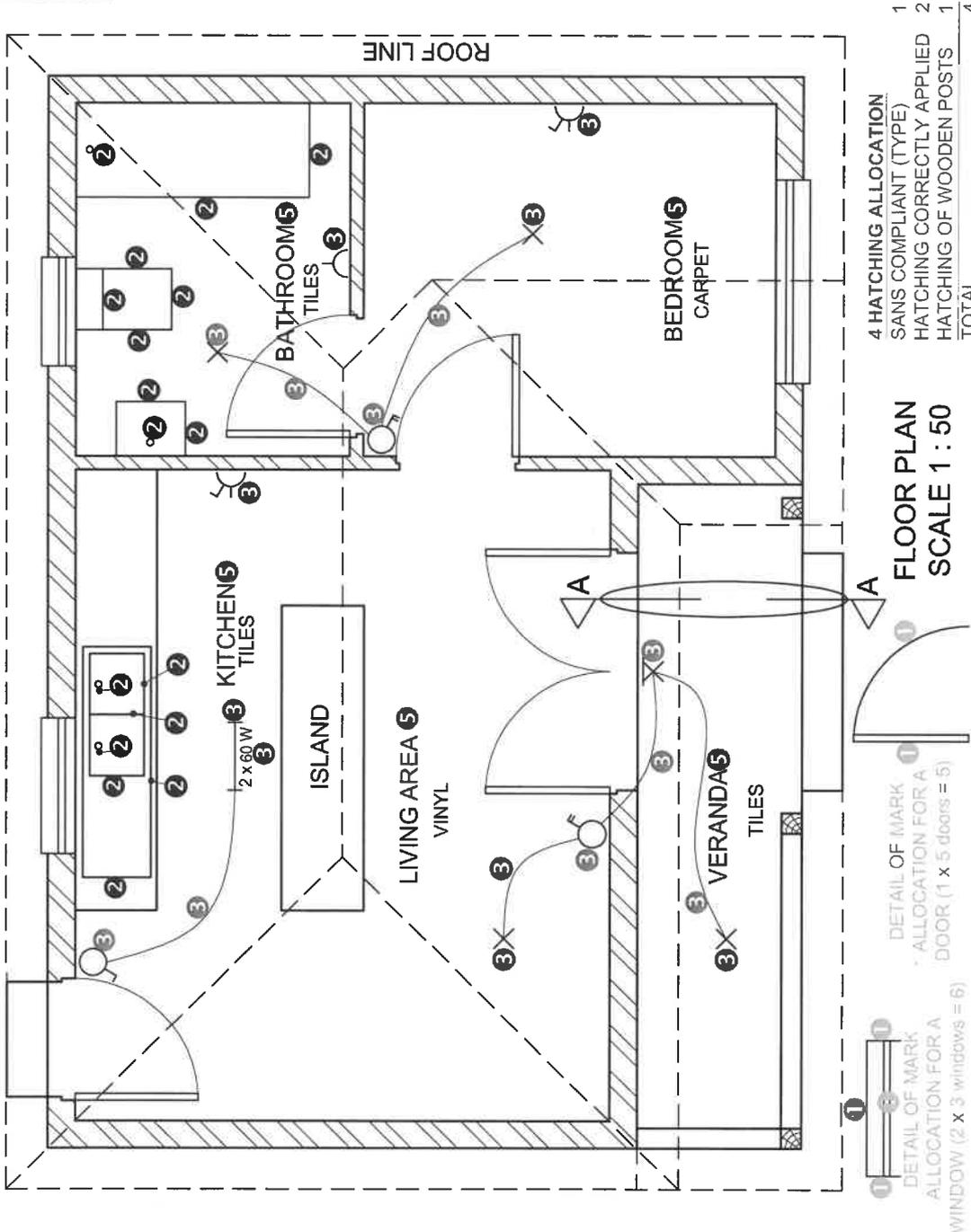
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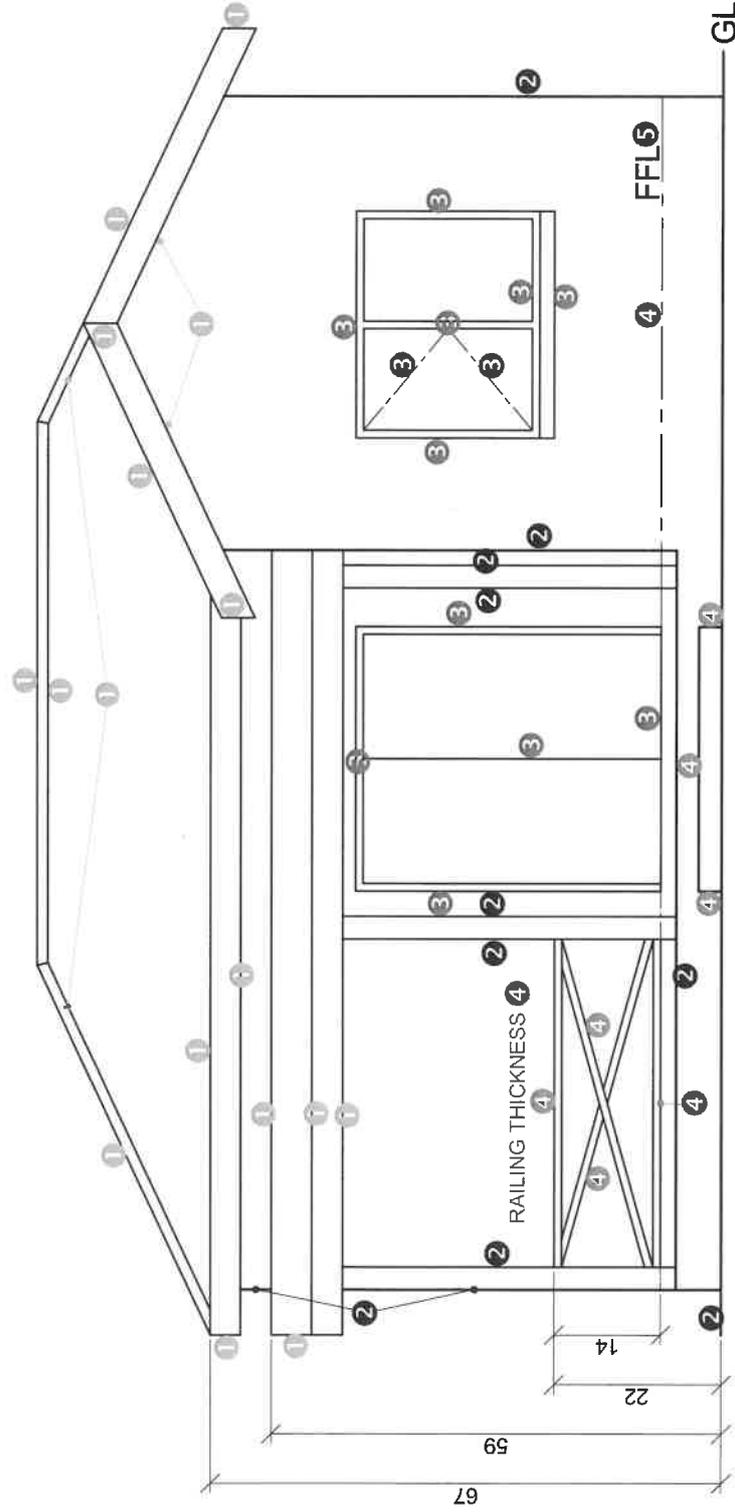
ASSESSMENT CRITERIA	
FLOOR PLAN	
1	DOORS + WINDOWS 11
2	FIXTURES 8 ½
3	ELECTRICAL 9 ½
4	HATCHING 4
5	LABELS 2 ½
<b>SUBTOTAL 35 ½</b>	

PAPER 1 QUESTION 4  
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ASSESSMENT CRITERIA	
WEST ELEVATION	
1	ROOF + LEAN-TO 8 ½
2	WALLS + POSTS + VERANDA 5
3	DOORS + WINDOW 6 ½
4	STEP + FFL + RAILING 4 ½
5	LABELS 1 ½
<b>SUBTOTAL 25</b>	

PAPER 1 QUESTION 4  
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WEST ELEVATION

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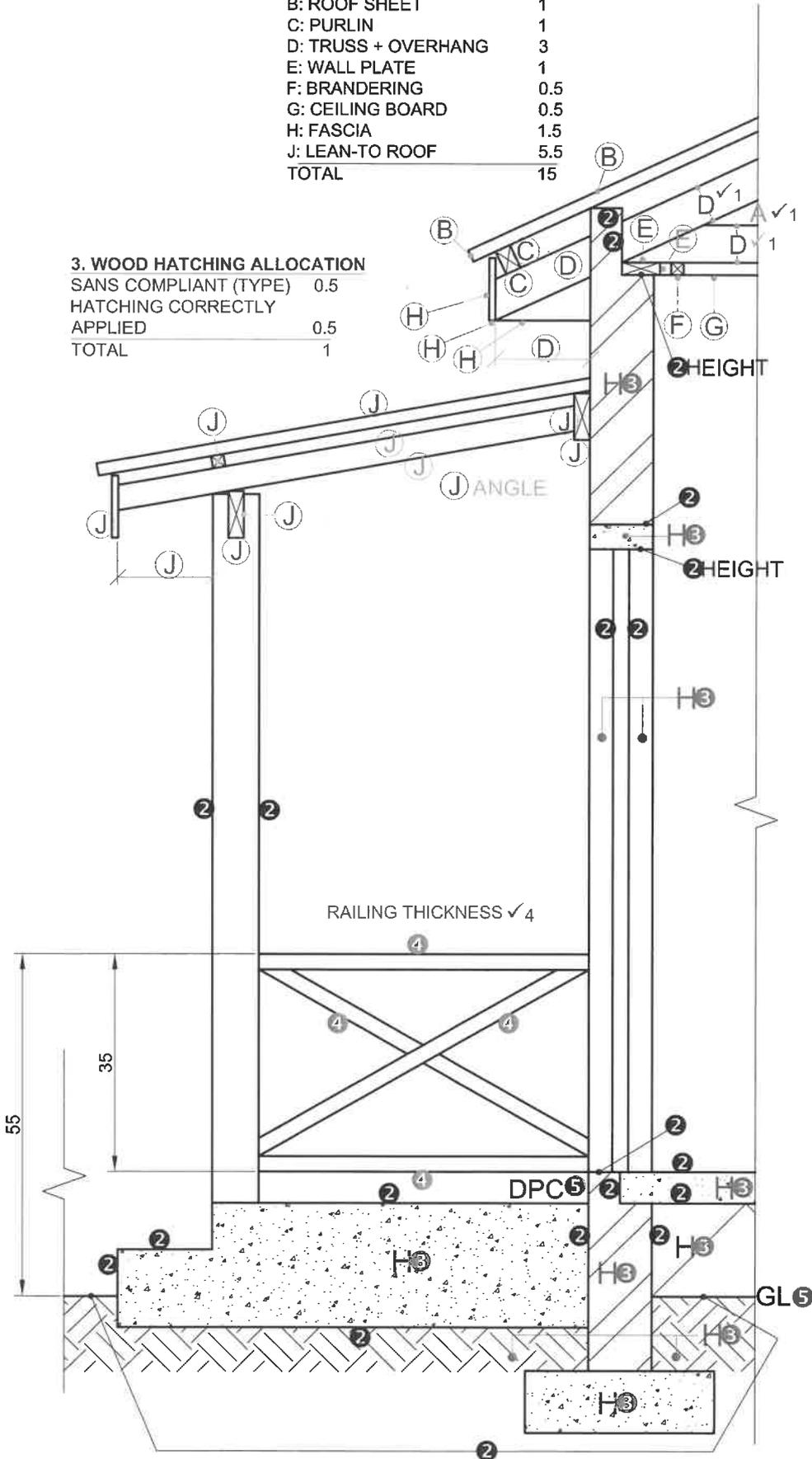
**1. MARK ALLOCATION FOR ROOF**

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
<b>TOTAL</b>	<b>15</b>

**3. WOOD HATCHING ALLOCATION**

SANS COMPLIANT (TYPE)	0.5
HATCHING CORRECTLY APPLIED	0.5
<b>TOTAL</b>	<b>1</b>

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*Handwritten annotations:*  
 AB  
 H3  
 2 HEIGHT  
 4

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
<b>SUBTOTAL</b>		<b>34 1/2</b>

PAPER 1 QUESTION 4  
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