



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

ENGINEERING GRAPHICS AND DESIGN P1

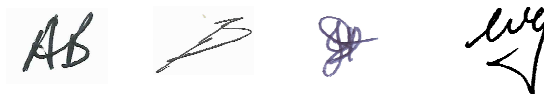
MAY/JUNE 2025

MARKING GUIDELINES

MARKS: 100

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PRIVATE BAG X695, PRETORIA 0001
2025 - 05 - 26
APPROVED MARKING GUIDELINE
PUBLIC EXAMINATION

These marking guidelines consist of 7 pages.



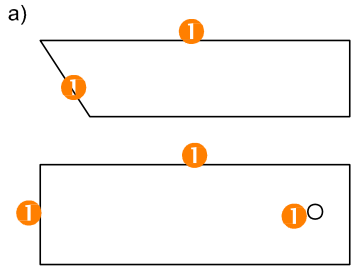
ANSWERS		
1	CJE ARCHITECTS	1
2	1 : 400	1
3	EXTENSION OF DRIVEWAY	1
4	CAMP STREET	1
5	619,75	1
6	ASPHALT	1
7	4	1
8	FENCE	1
9	2000	1
10	FALL	1
11	HEIGHT ABOVE SEA-LEVEL	1
12	WATT / ELECTRICAL METER	1
13	HIDDEN OR DASHED	1
14	8,219	1
15	YELLOW	1
16	3. MH 4. RE 5. IE	3
17	RELIGIOUS BUILDING	1
18		3
19	See below	4
20		4
TOTAL		30

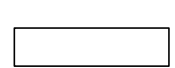
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ANSWER 18
 Show ALL calculations.
 APPLYING CORRECT FORMULA ✓
 $P = AB + BC + CD + DA$
 $= 22,8 + 36,4 + 23 + 39,4$
 $= 121,6 \text{ m}$ ANSWER IN METRES ✓

ANSWER 19
 Show ALL calculations.
 APPLYING CORRECT FORMULA ✓
EXISTING BUILDING AREA
 $AREA = (L \times B) + (L \times B) \dots$
 $= (11,5 \times 4,3) (7,6 \times 15,8) (8,5 \times 1,8)$
 $= 184,83$
TOTAL AREA
 $= 184,83 + 41,59 \checkmark$
 $= 226,42 \text{ m}^2 \checkmark$
 ANSWER IN SQUARE METRES (m²) ✓

ANSWER 20

a) 

b) 
 RECTANGLE ✓1

1 FREEHAND

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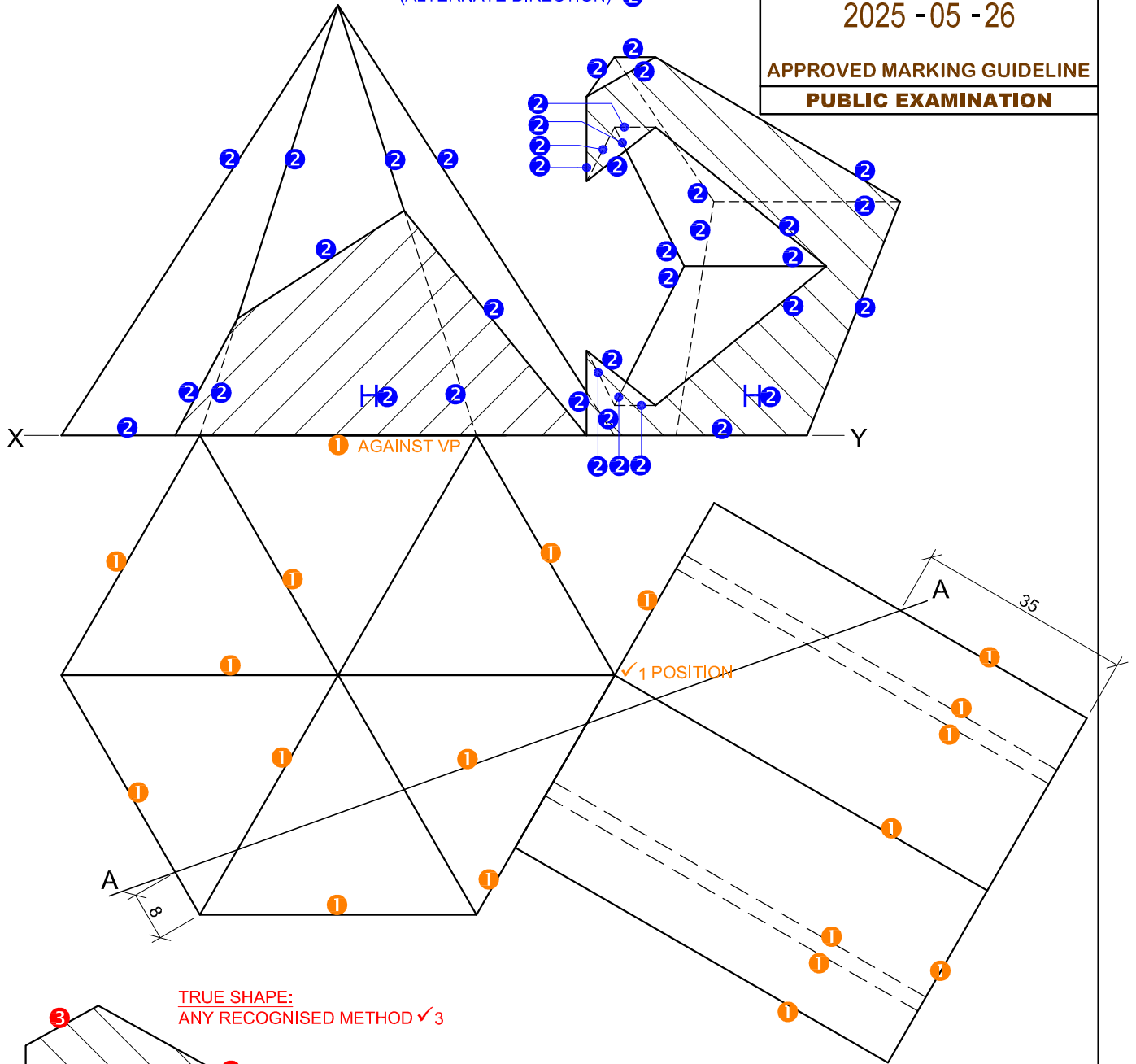
PAPER 1 QUESTION 1
 GRADE 12
 DBE MAY/JUNE 2025
 MARKING GUIDELINES

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NOTE ON HATCHING:
CORRECTLY APPLIED
(ALTERNATE DIRECTION) 2



TRUE SHAPE:
ANY RECOGNISED METHOD ✓ 3

✓ 1 PENTAGON CONSTRUCTION
✓ 1 CENTERING OF PENTAGON AND SQUARE

ASSESSMENT CRITERIA		
1	TOP VIEW + CONSTRUCTION	12 ½
2	SECTIONAL FRONT VIEW	19
3	TRUE SHAPE	6 ½
TOTAL		38

PAPER 1 QUESTION 2
GRADE 12
DBE MAY/JUNE 2025
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RVP

ARC DIVISIONS
5

PP

HL
LVP
GL

RVP
HL
GL

SP

SP

ALTERNATIVE ANSWER

CURVE QUALITY
✓5

ARC CONSTRUCTION
✓5

SP

LVP

SP

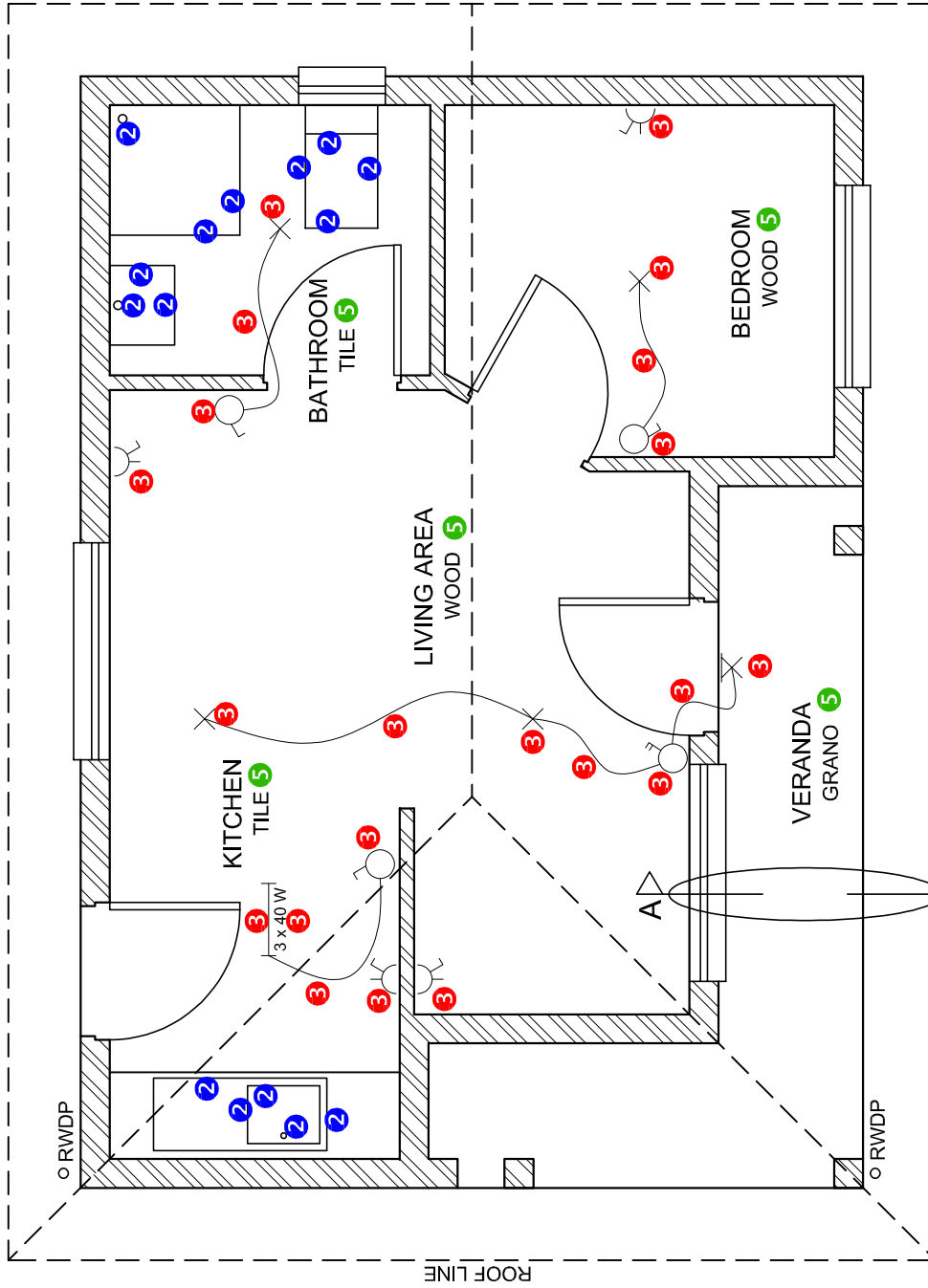
ASSESSMENT CRITERIA		
1	CONSTRUCTION	6
2	WALLS	7 1/2
3	WINDOW + DOOR	10 1/2
4	ROOF	11 1/2
5	ARC	4 1/2
TOTAL		40

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

AB
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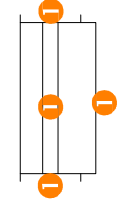
FLOOR PLAN	
1	DOORS + WINDOWS 12
2	FIXTURES 7 1/2
3	ELECTRICAL 10 1/2
4	HATCHING 3
5	LABELS 2 1/2
SUBTOTAL 35 1/2	

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4 HATCHING ALLOCATION
 SANS COMPLIANT (TYPE) 1
 HATCHING CORRECTLY APPLIED 2
 TOTAL 3

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



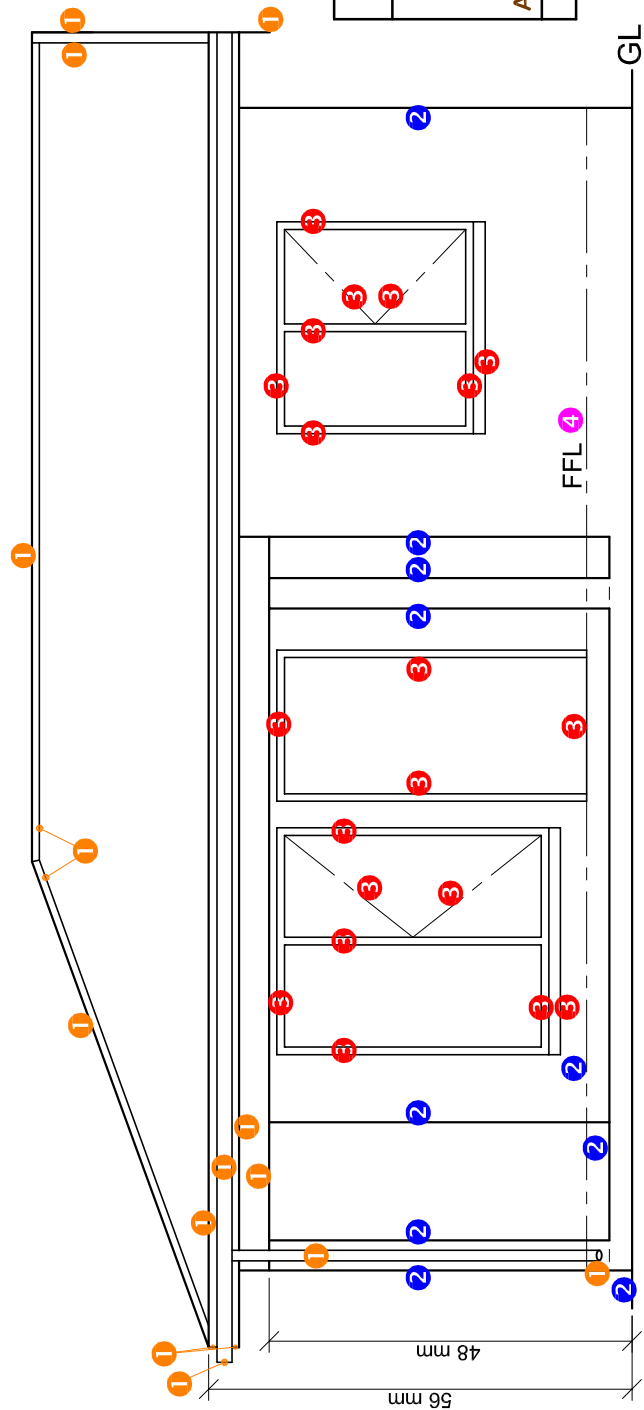
FLOOR PLAN SCALE 1 : 50



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

AB [Signature]

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



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SOUTH ELEVATION 4

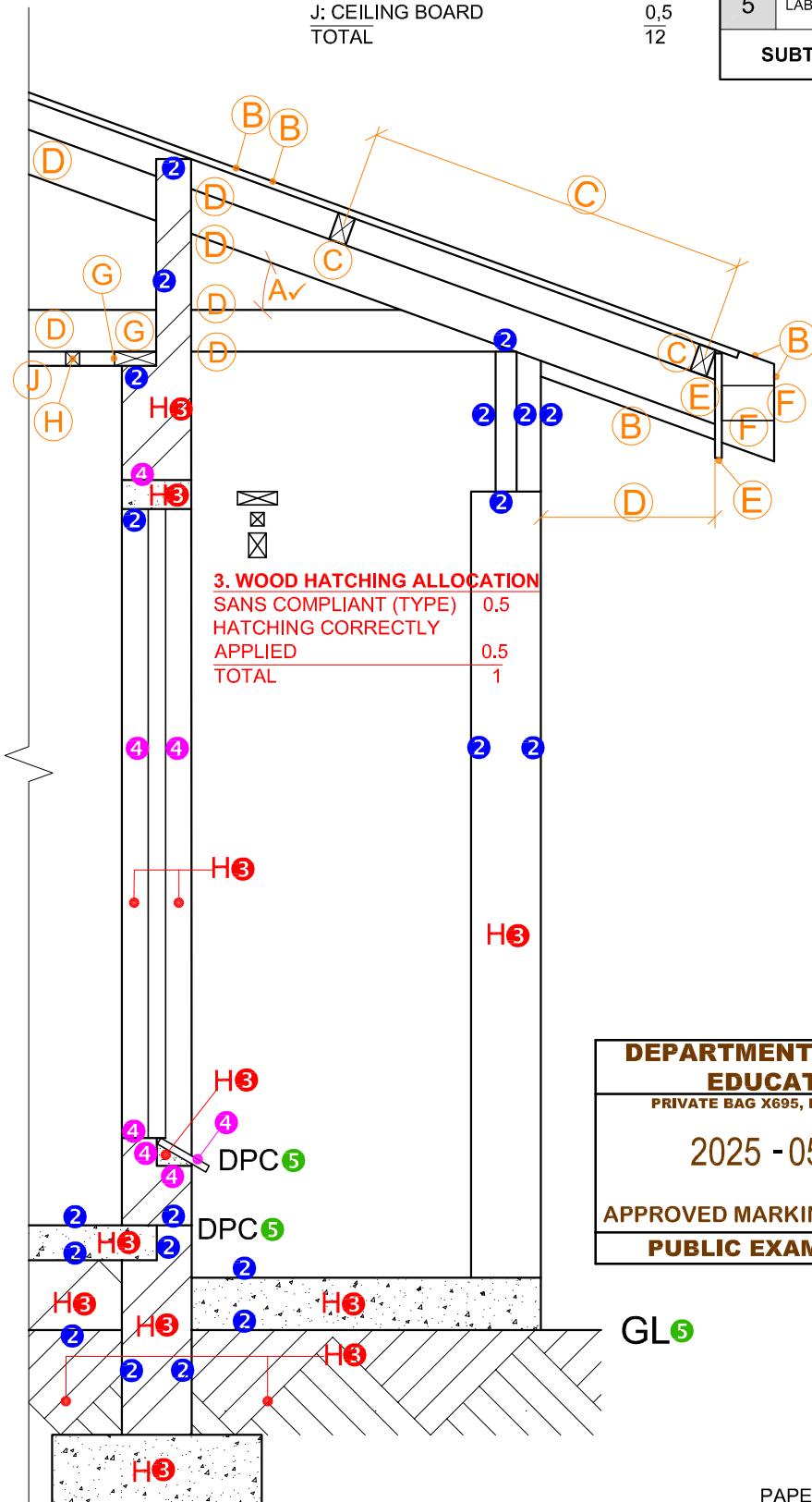
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PAPER 1 QUESTION 4.1.2
 GRADE 12
 DBE MAY/JUNE 2025
 MARKING GUIDELINES

DETAILED SECTION		
1	ROOF DETAIL	12
2	SLAB + WALL+ VERANDA	10
3	HATCHING	6 1/2
4	WINDOW	3 1/2
5	LABELS	1 1/2
SUBTOTAL		33 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



3. WOOD HATCHING ALLOCATION

SANS COMPLIANT (TYPE)	0,5
HATCHING CORRECTLY APPLIED	0,5
TOTAL	1

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GL⁵

SECTION A-A
SCALE 1 : 20

PAPER 1 QUESTION 4.2
GRADE 12
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