

## basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

## ENGINEERING GRAPHICS AND DESIGN P1

**NOVEMBER 2023** 

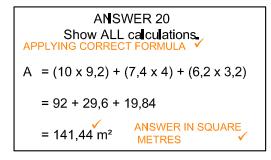
MARKING GUIDELINES

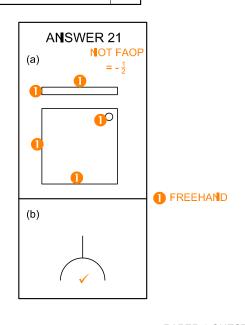
**MARKS: 100** 

These marking guidelines consist of 8 pages.

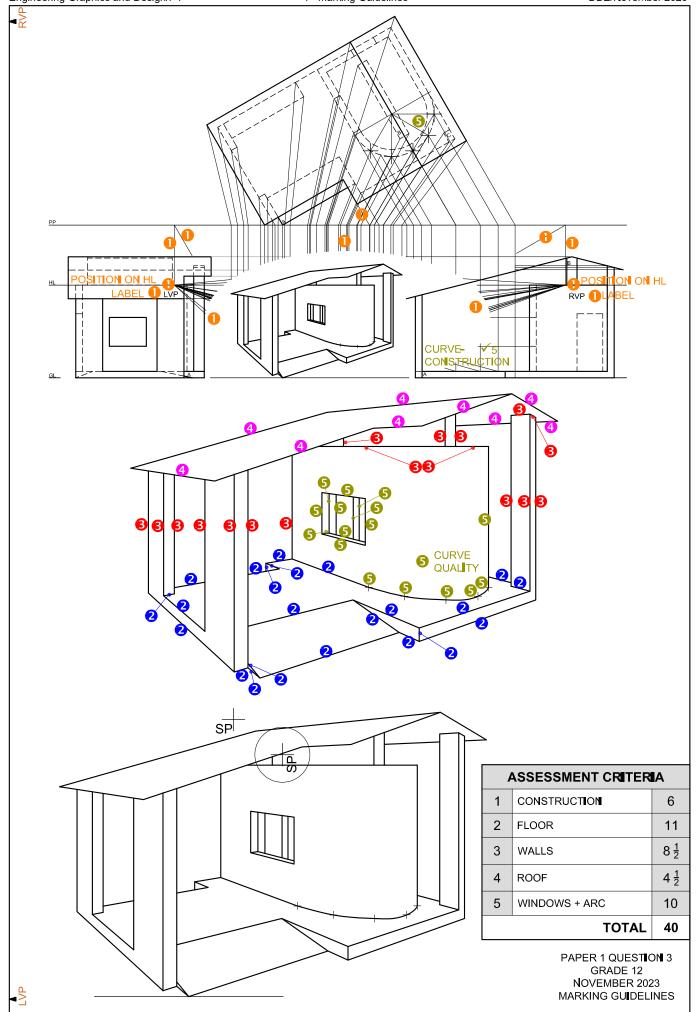
ANSWERS			
1	acearc@africa_com / ACEARC@AFRICA_COM	1	
2	1:450	1	
3	30/01/2023	1	
4	QUALITY STREET	1	
5	351	1	
6	BRICK PAVING	1	
7	3	1	
8	SPEED <u>HUMP</u>	1	
9	1:40	1	
10	2500	1	
11	GULLY	1	
12	EVERGREEN TREE (TREE = $\frac{1}{2}$ )	1	
13	ADJACENT BUILDING / CIVIL STRUCTURE	1	
14	EXISTING SEWER LINE	1	
15	0,15	1	
16	RED	1	
17	SOUTH EAST / EAST-SOUTH-EAST / SE	2	
18	1800	2	
19		3	
20	See below	3	
21		4	
TOTAL			

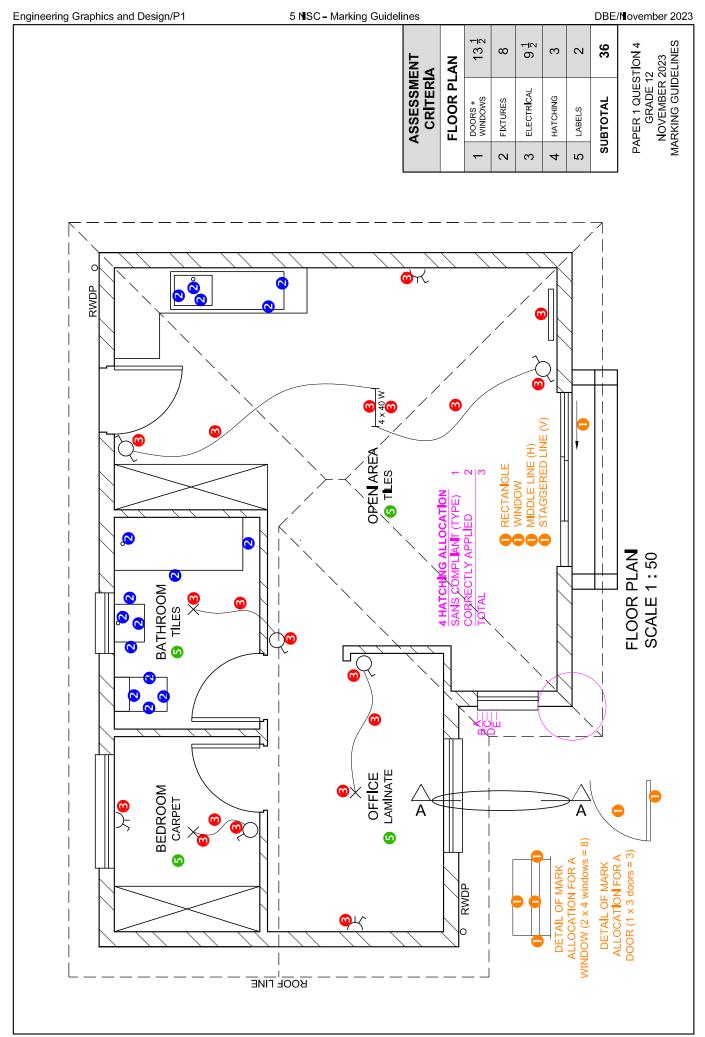
## ANSWER 19 Show ALL calculations. APPLYING CORRECT FORMULA P = AB + BC + CD + DE + EA = 40 + 48 + 23,34 + 7,5 + 44,56 = 163,4 ANSWER IN METRES





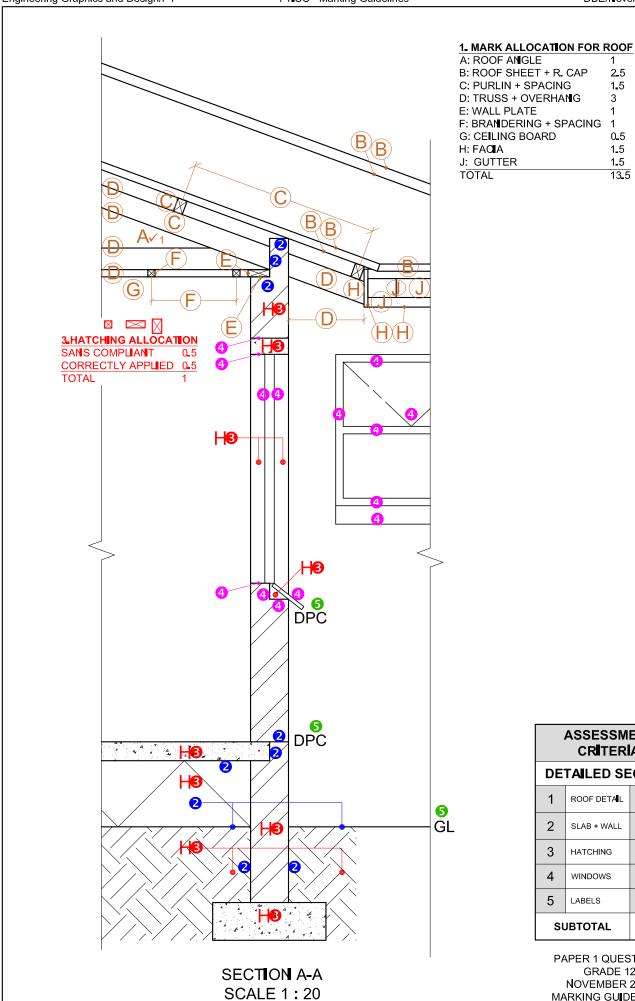
PAPER 1 QUESTION 1 GRADE 12 NOVEMBER 2023 MARKING GUIDELINES





ROOF HEIGHT 55 mm

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A: ROOF ANIGLE	1
B: ROOF SHEET + R. CAP	2_5
C: PURLIN + SPACING	1.5
D: TRUSS + OVERHANG	3
E: WALL PLATE	1
F: BRANDERING + SPACING	1
G: CE <b>I</b> LING BOARD	0.5
H: FACIA	1.5
J: GUTTER	1.5
TOTAL	13.5

ASSESSMENT CRITERIA					
DETAILED SECTION					
1	ROOF DETAIL	13 ½			
2	SLAB + WALL	4 ½			
3	HATCHING	$5\frac{1}{2}$			
4	WINDOWS	7			
5	LABELS	1 ½			
รเ	JBTOTAL	32			

PAPER 1 QUESTION 4 GRADE 12 **NOVEMBER 2023** MARKING GUIDELINES