GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

JUNE EXAMINATION

GRADE 12

2026

ENGINEERING GRAPHICS AND DESIGN

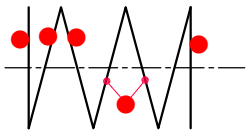
PAPER 2

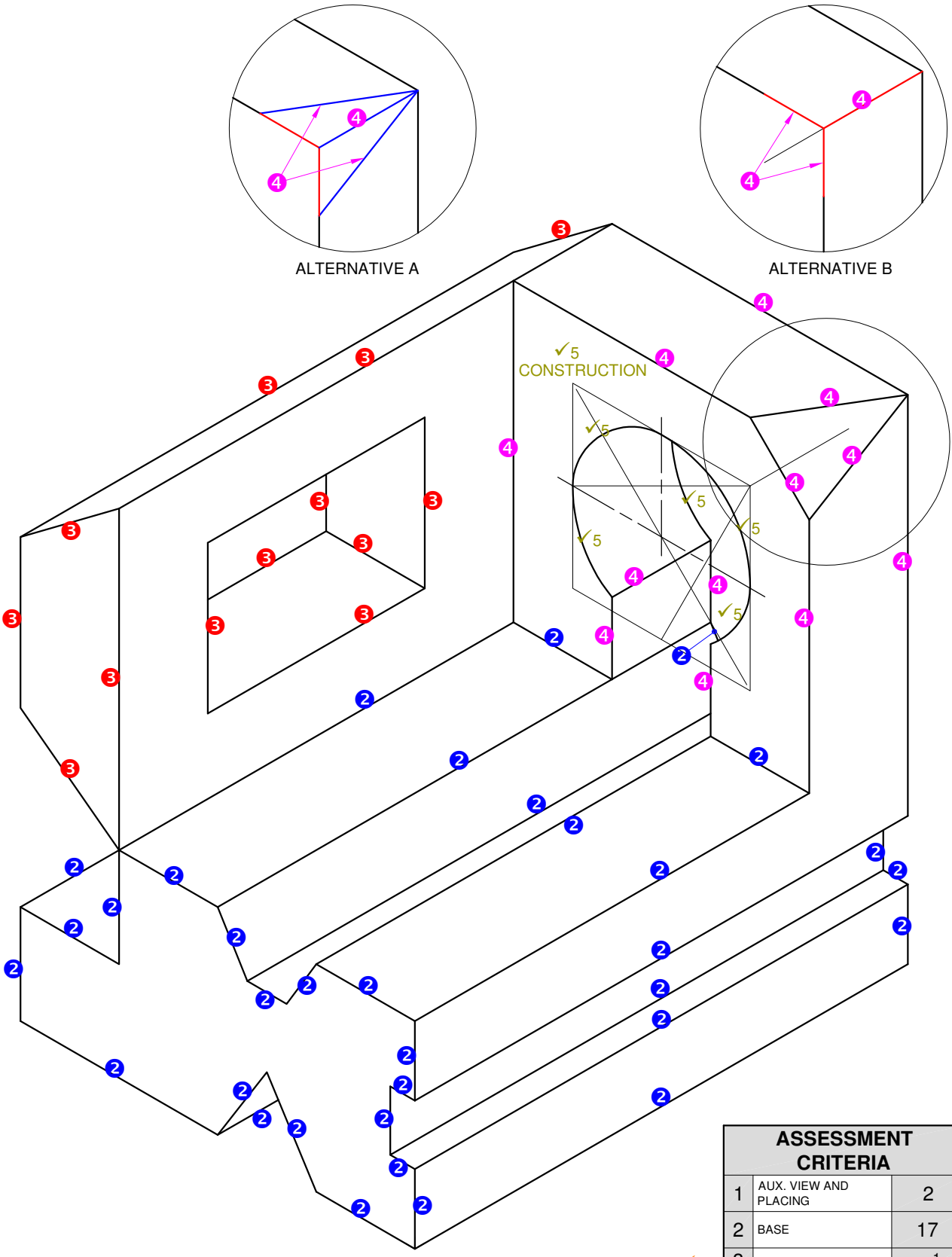
MARKING GUIDELINES

4 Pages

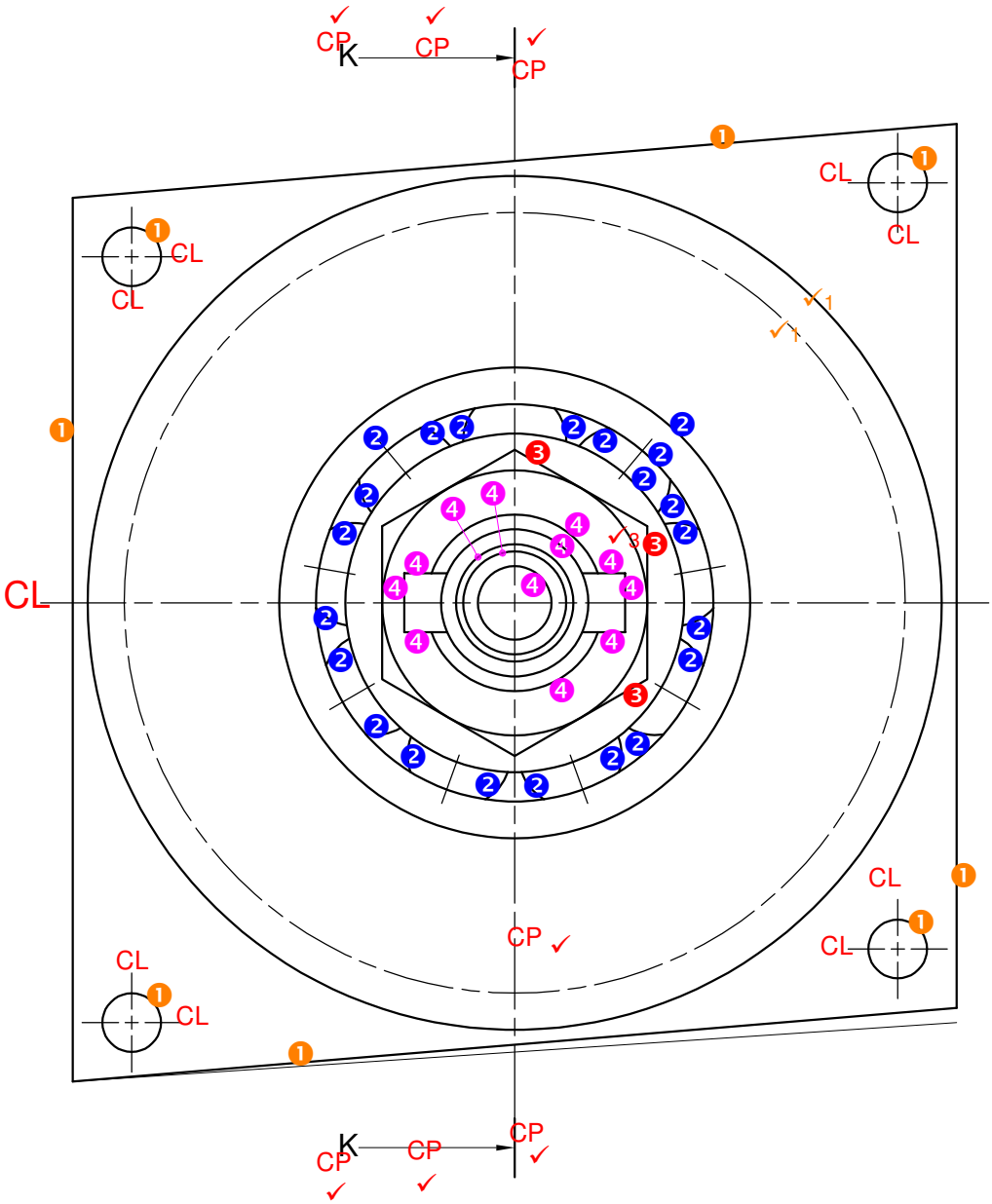
ANSWERS		
1	XK25/13.LC	1
2	78	1
3	94	1
4	MIGUEL	1
5	2025/06/01	1
6	AUTOCAD	1
7	SCALE 3 : 7	1
8	A: 14 B: M24 C: 56 D: 4 E: R8	5
9	68° / **69°** / 70°	1
10	BOTTOM VIEW	1
11	INTERRUPTED VIEW	1
12	Ø64 + 0,17 = Ø64,17	2
13	R30 - 0,08 = R29,92	2
14	DIAMOND KNURLING	1
15	CHAMFER	1
16	COUNTERSINK HOLE	1
17	REVOLVED SECTION	1
18	SYMMETRY / SYMMETRICAL	1
19	2 / TWO	1
20	L	1
	J	1
21	*SEE BELOW*	3
	TOTAL	**30**

ANSWER 21

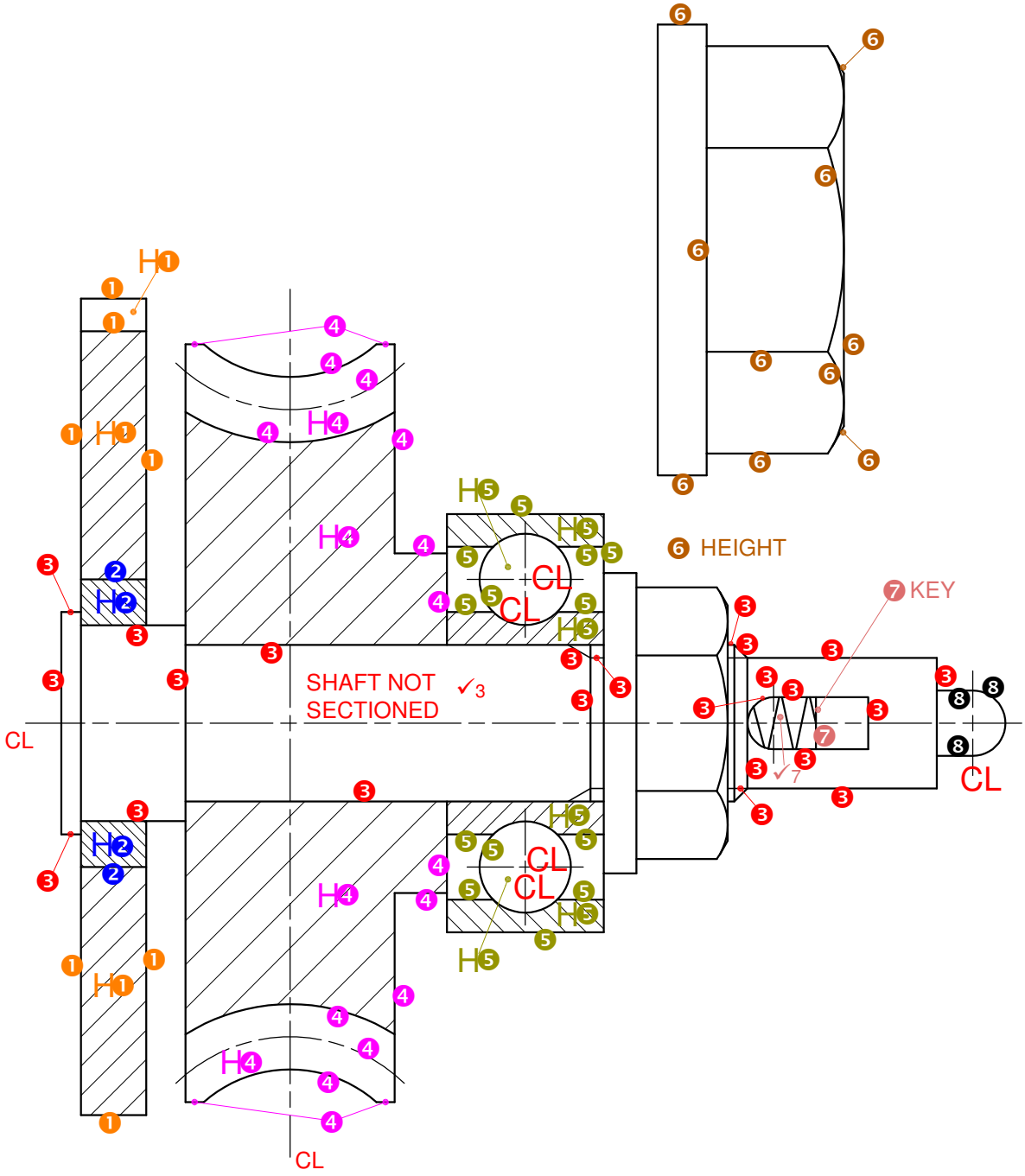
FREEHAND 	OR 2 x STRAIGHT ENDS 0,5 + 0,5 V-SHAPE 0,5 + 0,5 REPEAT OF V-SHAPE 0,5 FREEHAND 0,5 3



ASSESSMENT CRITERIA		
1	AUX. VIEW AND PLACING	2
2	BASE	17
3	LEFT SIDE	6 ½
4	RIGHT SIDE	5 ½
5	ISOMETRIC CIRCLES AND CENTRE LINES	7
	TOTAL	**38**



ASSESSMENT CRITERIA		
RIGHT VIEW		
1	BACKPLATE + WORM WHEEL	6
2	BEARING AND SPACER	11
3	M24 NUT	2 ½
4	SHAFT + PIN + LOCK KEY	6
SUBTOTAL		**25 ½**



1. CENTRE LINES

SANS COMPLIANT 2

1 - 6 = 0,5
7 - 13 = 1,
14 -16 = 1,5,
17 - 25 = 2 2

4

2. ASSEMBLY

1 MARK FOR EVERY COMPONENT CORRECTLY ASSEMBLED (10 - 1) = 9

ASSESSMENT CRITERIA		
SECTIONAL FRONT VIEW		
1	BACK PLATE	5
2	BUSH	2
3	SHAFT	12 ½
4	WORM WHEEL	9
5	BEARING	9 ½
6	M24 NUT + SPACER	5 ½
7	KEY + SPRING	1 ½
8	PIN	1 ½
SUBTOTAL		46 ½