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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V2

FEBRUARIE/MAART 2012

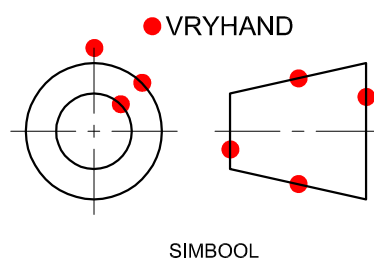
MEMORANDUM

PUNTE: 100

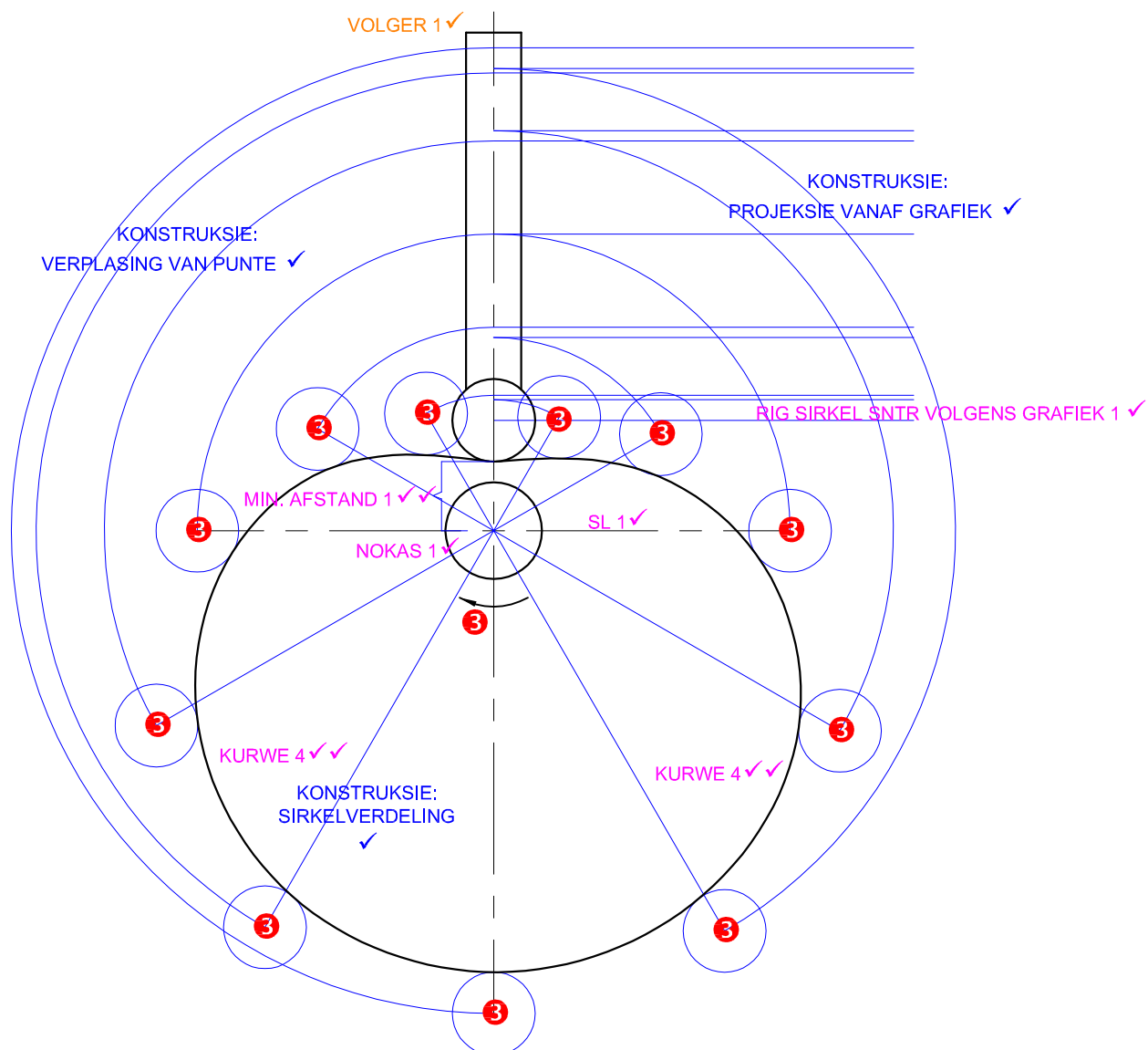
Hierdie memorandum bestaan uit 6 bladsye.

ANTWOORDE		
1	6	1
	7	1
	4	1
	8	1
	1	1
	5	1
	3	1
2	2011/06/01	1
3	www.weldtech.co.za	1
4	CHROOMPLATEER	1
5	PM 12 - PSC - 347	1
6	5 mm	1
7	26	1
8	DEURSNEE-BOAANSIG	1
9	LINKERAANSIG	1
10	M10	1
11	A - Ø20 B - 80 C - 22°	3
12	2000	1
13	16	2
14	'S'-BREEK	1
15	TOTALE LENGTE VAN KENMERK (BEPERKTE RUIMTE)	1
16	29.5 & 30.5	2
17		4
TOTAAL		30

ANTWOORD 17

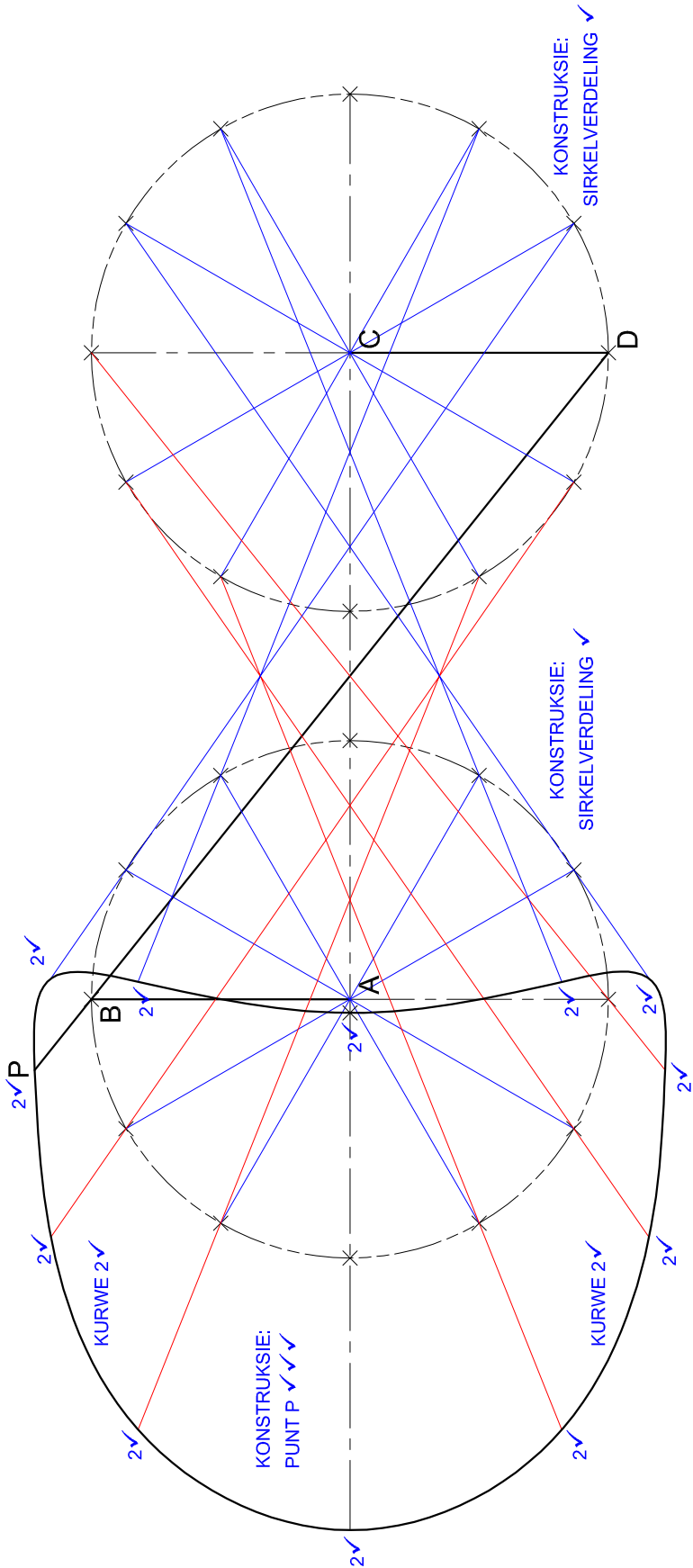


VRAESTEL 2 VRAAG 1
 GRAAD 12
 Feb.-Mrt. 2012
 MEMORANDUM

**ASSESSERINGSKRITERIA**

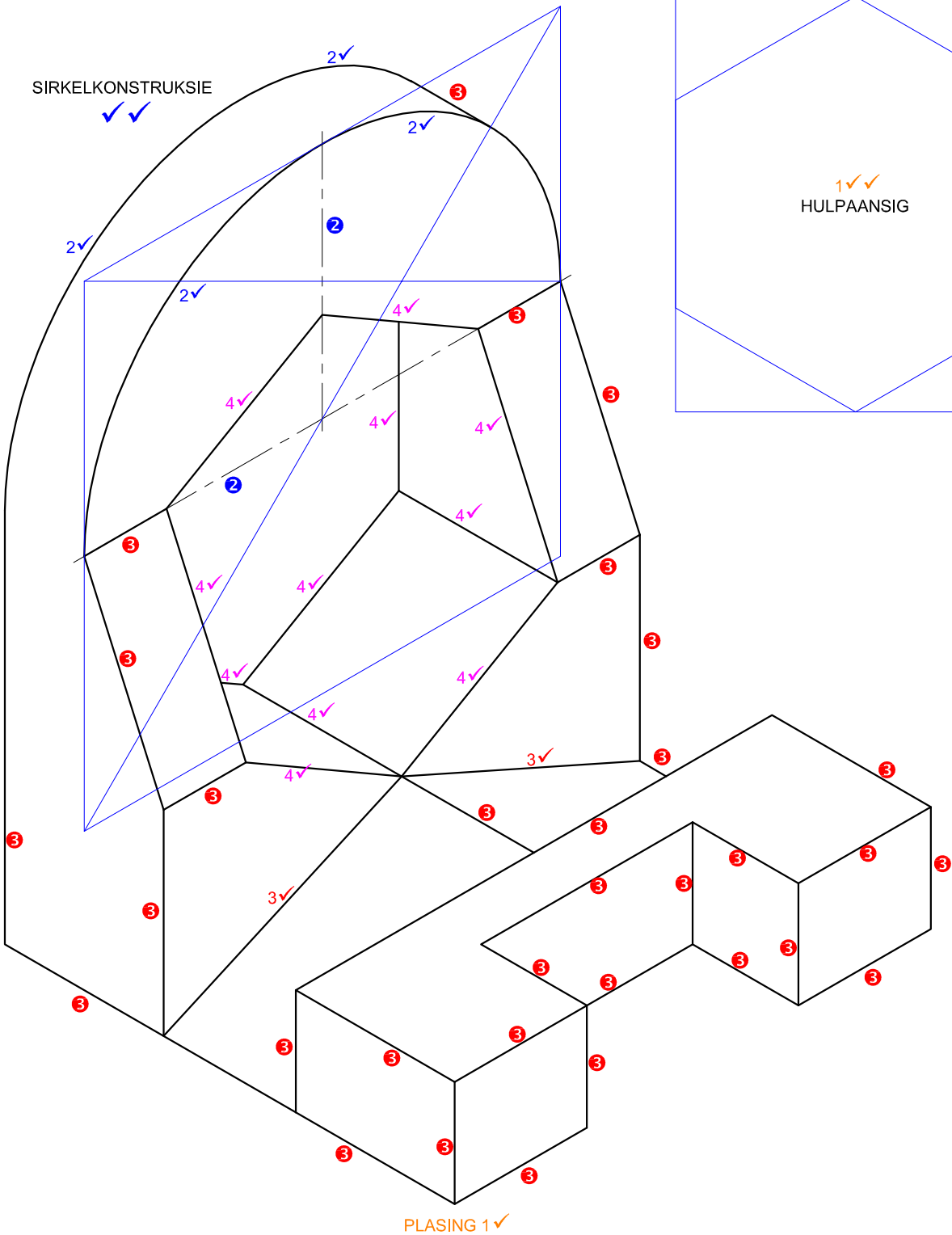
1. VOLGER + MIN. AFSTAND + SENTERLYN + NOKAS	6
2. KONSTRUKSIE	3
3. UITSTIPPING + RIGTING	6
4. KURWE	4
2.1 SUBTOTAAL	19

VRAESTEL 2 VRAAG 2.1
 GRAAD 12
 Feb.-Mrt. 2012
 MEMORANDUM



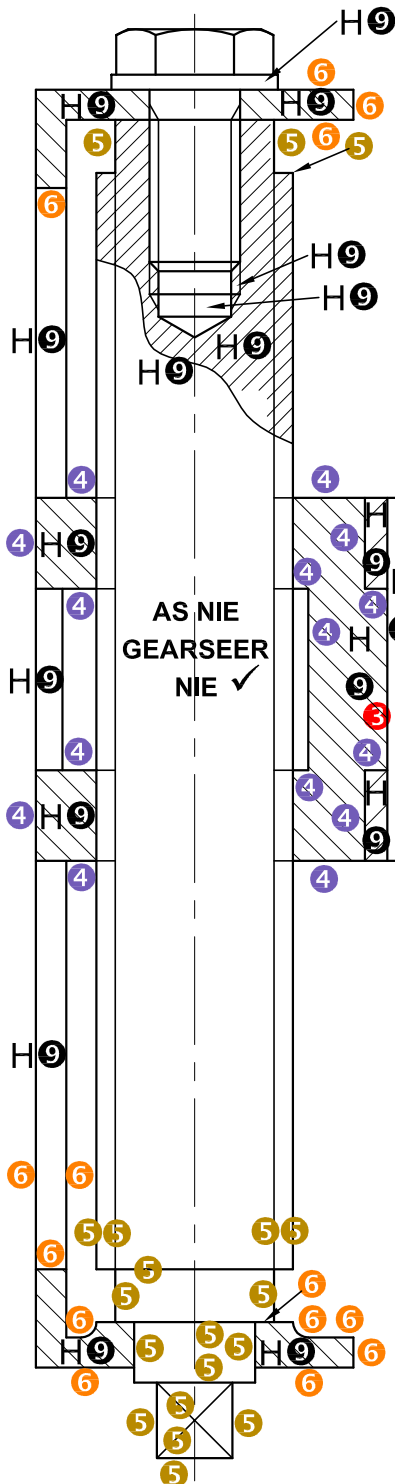
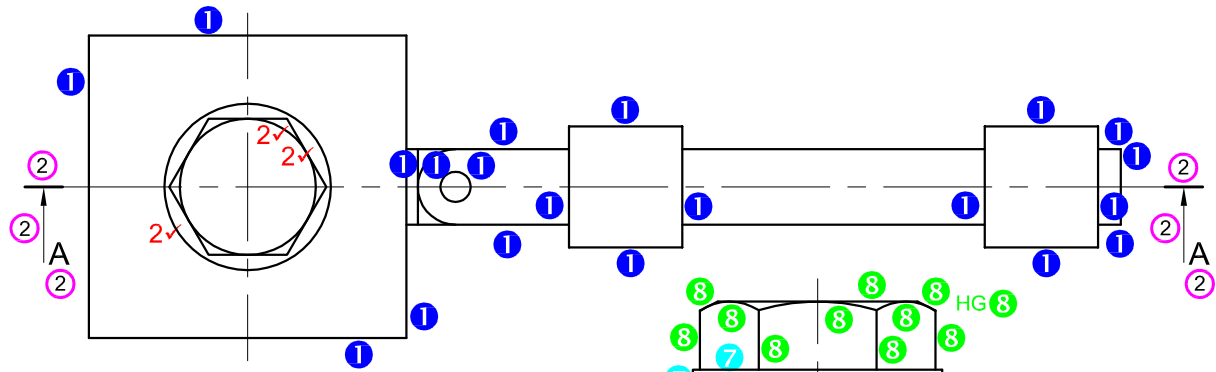
ASSESSERINGSKRITERIA	
1. KONSTRUKSIES	5
2. LOKUS VAN P	14
2.2 SUBTOTAAL	19

VRAESTEL 2 VRAAG 2.2
 GRAAD 12
 Feb.-Mrt. 2012
 MEMORANDUM

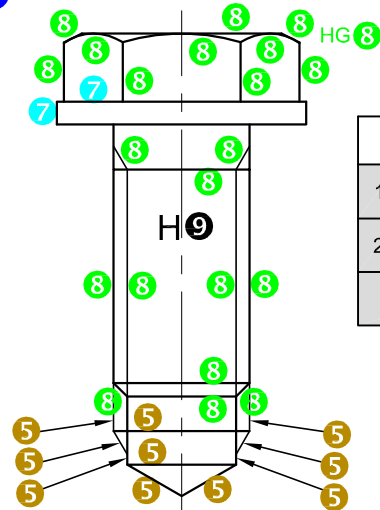


ASSESSERINGSKRITERIA	
1. HULPAANSIG + PLASING + SIRKELKONSTRUKSIE	5
2. ISO'-SIRKELS + SENTERLYNE	5
3. ISO + NIE-ISO'-LYNE	18
4. SESKANT	11
TOTAAL	39

VRAESTEL 2 VRAAG 3
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM

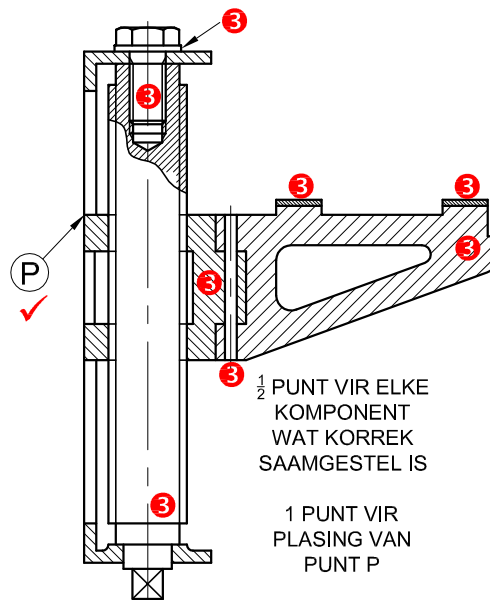


SNIT A-A ✓

**BOAANSIG**

1	BUITELYN	10
2	BOUT + WASTER	3
SUBTOTAAL		13

BOUT-DETAIL

**DEURSNEE VOORAANSIG**

1	KUSSING	3
2	DOMKRAGARM	11
3	PEN	1
4	DOMKRAG	7½
5	AS	14½
6	STEUNSTUK	7
7	WASTER	1
8	BOUT	11
9	ARSERING	13
SUBTOTAAL		69

ALGEMEEN

1	SETERLYNE	2
2	SNYVLAK + TITEL	4
3	SAMESTELLING	5
SUBTOTAAL		11
TOTAAL		93

VRAESTEL 2 VRAAG 4
GRAAD 12
Feb.-Mrt. 2012
MEMORANDUM



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

FEBRUARY/MARCH 2012

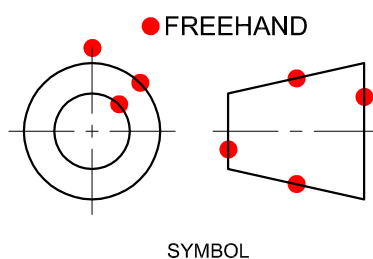
MEMORANDUM

MARKS: 100

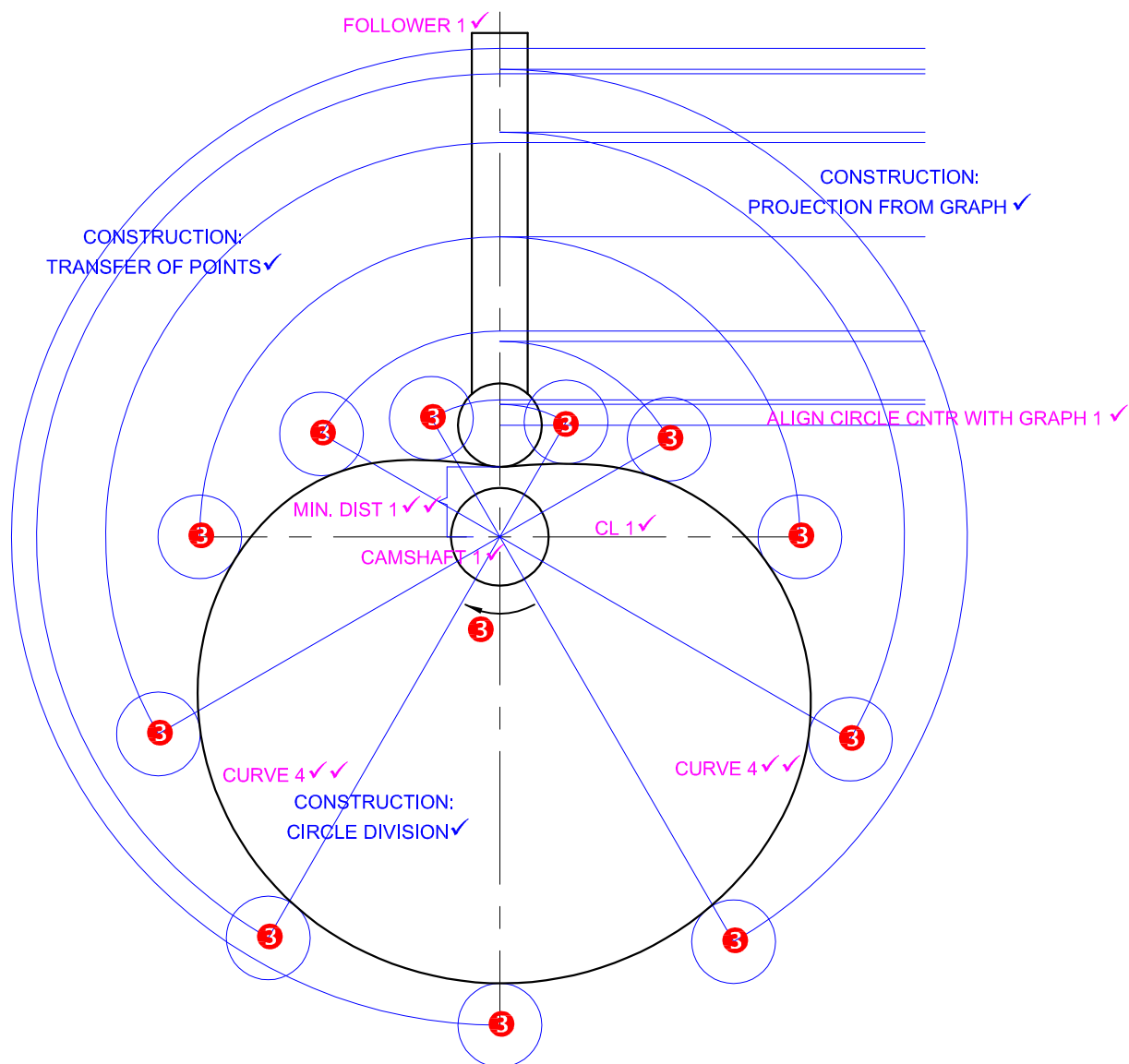
This memorandum consists of 6 pages.

ANSWERS		
1	6	1
	7	1
	4	1
	8	1
	1	1
	5	1
	3	1
2	2011/06/01	1
3	www.weldtech.co.za	1
4	CHROME PLATED	1
5	PM 12 - PSC - 347	1
6	5 mm	1
7	26	1
8	SECTIONAL TOP VIEW	1
9	LEFT VIEW	1
10	M10	1
11	A - $\varnothing 20$ B - 80 C - 22°	3
12	2000	1
13	16	2
14	'S' BREAK	1
15	TOTAL LENGTH OF FEATURE (LIMITED SPACE)	1
16	29.5 & 30.5	2
17		4
TOTAL		30

ANSWER 17

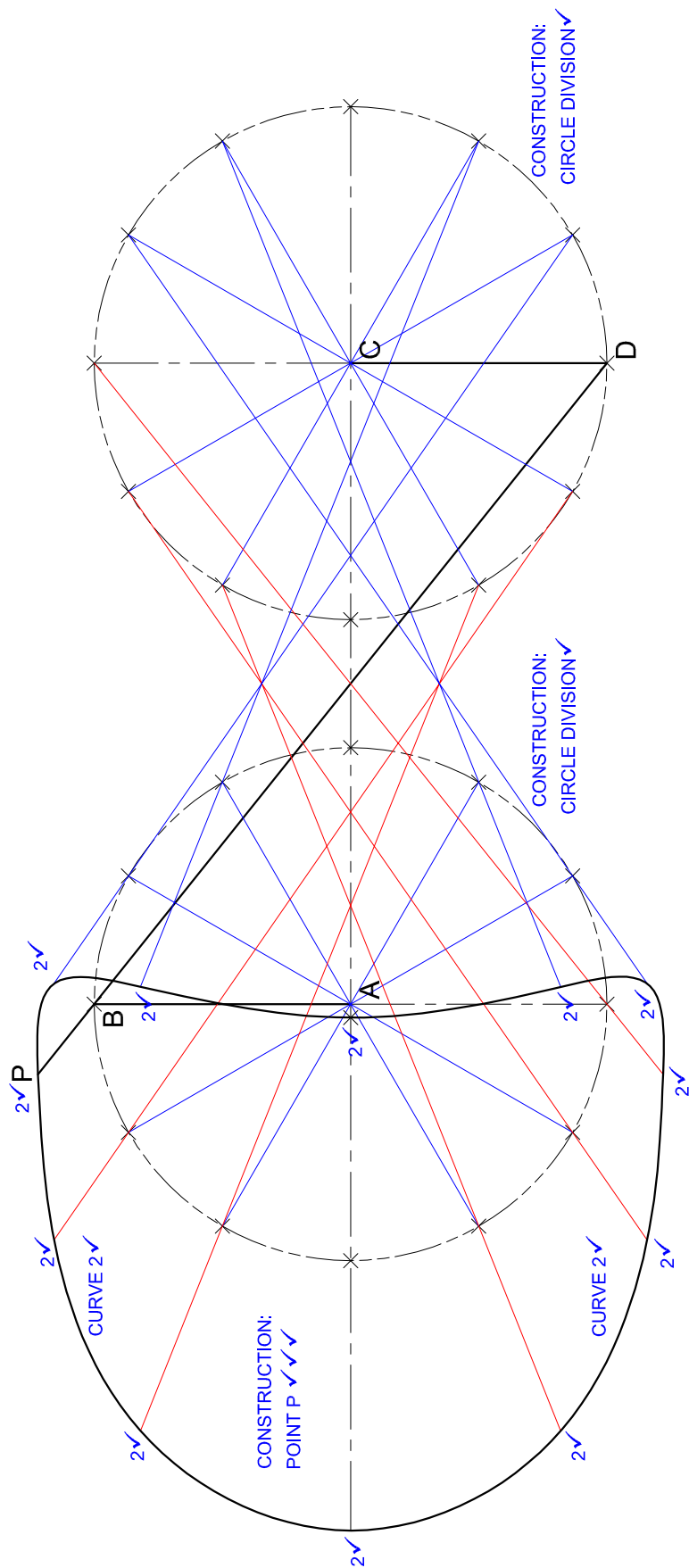


PAPER 2 QUESTION 1
 GRADE 12
 Feb.-Mar. 2012
 MEMORANDUM

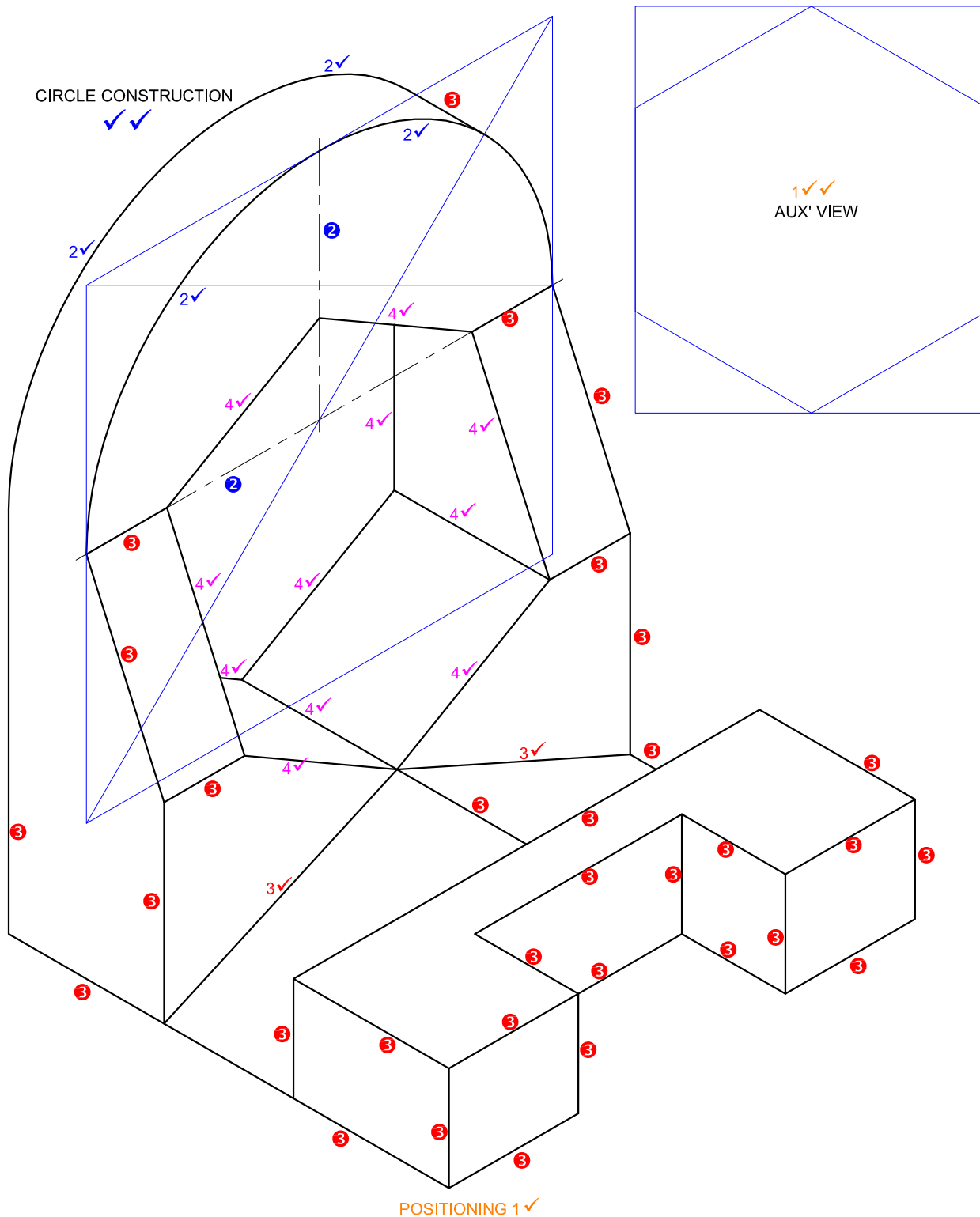
**ASSESSMENT CRITERIA**

1. FOLLOWER + MIN. DIST + CENTRE LINE + CAMSHAFT	6
2. CONSTRUCTION	3
3. PLOTTING + DIRECTION	6
4. CURVE	4
2.1 SUBTOTAL	19

PAPER 2 QUESTION 2.1
 GRADE 12
 Feb.-Mar. 2012
 MEMORANDUM

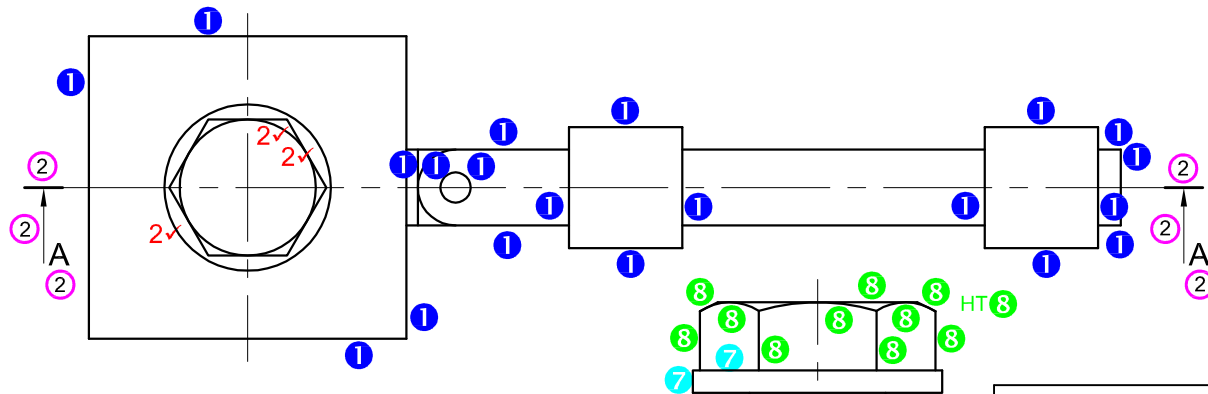


ASSESSMENT CRITERIA	
1. CONSTRUCTION	5
2. LOCUS OF P	14
2.2 SUBTOTAL	19

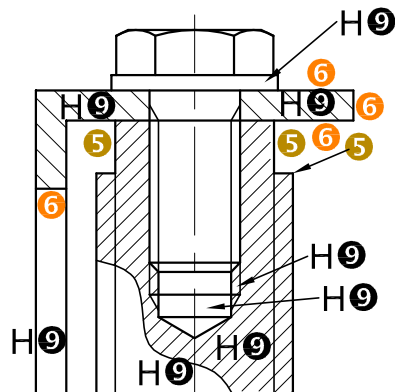
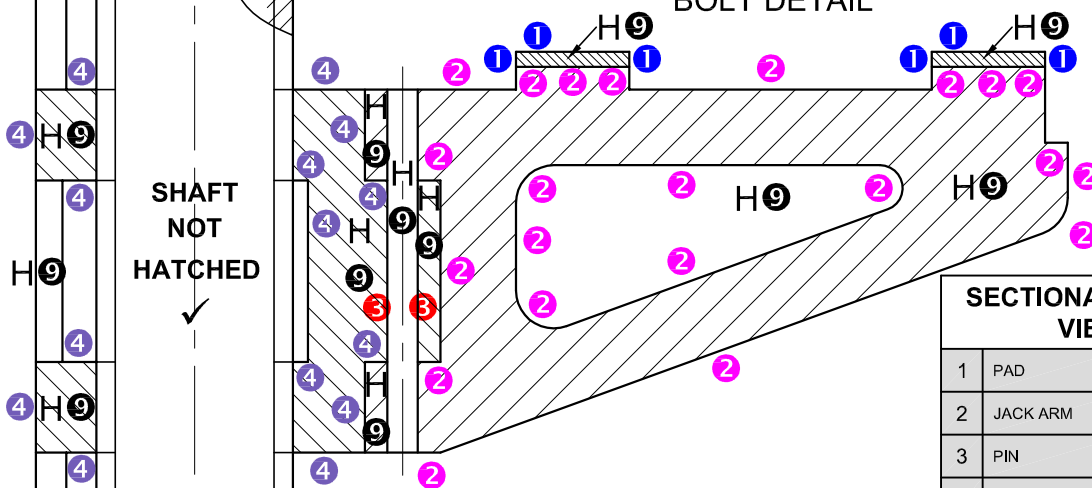


ASSESSMENT CRITERIA	
1. AUXILIARY VIEW + PLACEMENT + CIRCLE CONSTRUCTION	5
2. ISO' CIRCLES + CENTRE LINES	5
3. ISO + NON-ISO' LINES	18
4. HEXAGON	11
TOTAL	39

PAPER 2 QUESTION 3
 GRADE 12
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**TOP VIEW**

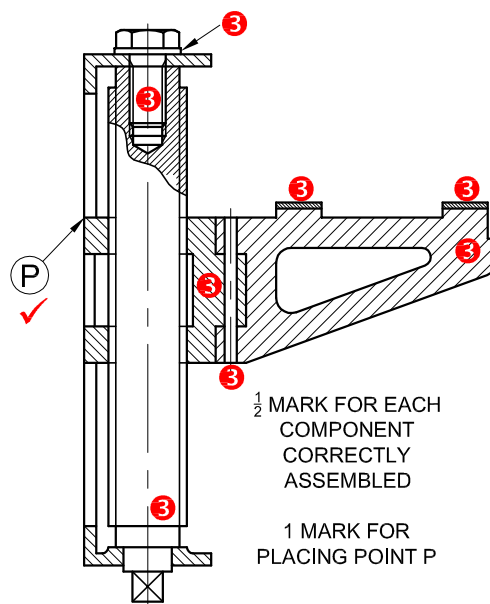
1	OUTLINE	10
2	BOLT + WASHER	3
SUBTOTAL		13

**BOLT DETAIL****SECTIONAL FRONT VIEW**

1	PAD	3
2	JACK ARM	11
3	PIN	1
4	JACK	7½
5	SHAFT	14½
6	BRACKET	7
7	WASHER	1
8	BOLT	11
9	HATCHING	13
SUBTOTAL		69

GENERAL

1	CENTRE LINES	2
2	CUTTING PLANE + TITLE	4
3	ASSEMBLY	5
SUBTOTAL		11
TOTAL		93

SECTION A-A ✓

1/2 MARK FOR EACH COMPONENT CORRECTLY ASSEMBLED

1 MARK FOR PLACING POINT P

PAPER 2 QUESTION 4
GRADE 12
Feb.-Mar. 2012
MEMORANDUM