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PAPERS**



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V2

NOVEMBER 2013

MEMORANDUM

PUNTE: 100

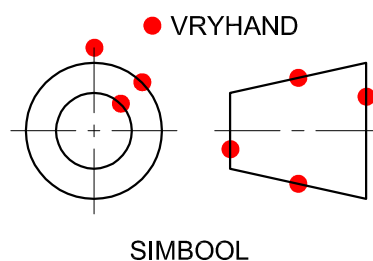
Hierdie memorandum bestaan uit 7 bladsye.

ANTWOORDE

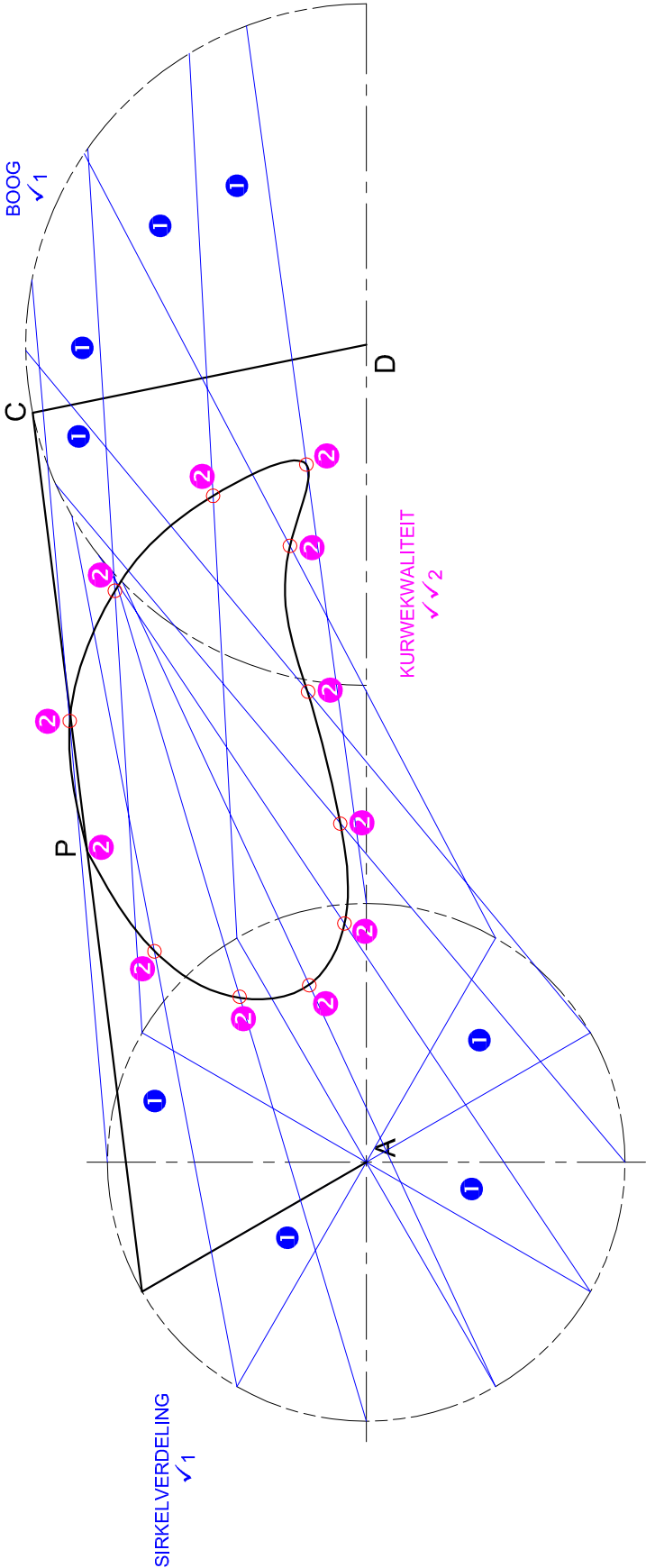
1	2013/05/12	1
2	PRECISION INGENIEURSWERKE	1
3	1 : 2	1
4	VERHARDING	1
5	2013/05/15	1
6	AWF 3628 W	1
7	VOORAANSIG	1
8	17	1
9	4	1
10	DRAAIWERK	1
11	GEDEELTELIKE SNIT	1
12	(EKSTERNE) SKROEFDRAAD	1
13	BINNERONDING	1
14	4 mm	1
15	TAPGAT/BLINDE GAT MET SKROEFDRAAD	2
16	INTERPENETRASIE	2
17	100°	2
18	2 mm	2
19	A Ø10 B 60 C 16 D 8	4
20	(Sien hieronder.)	4

TOTAAL: 30

20

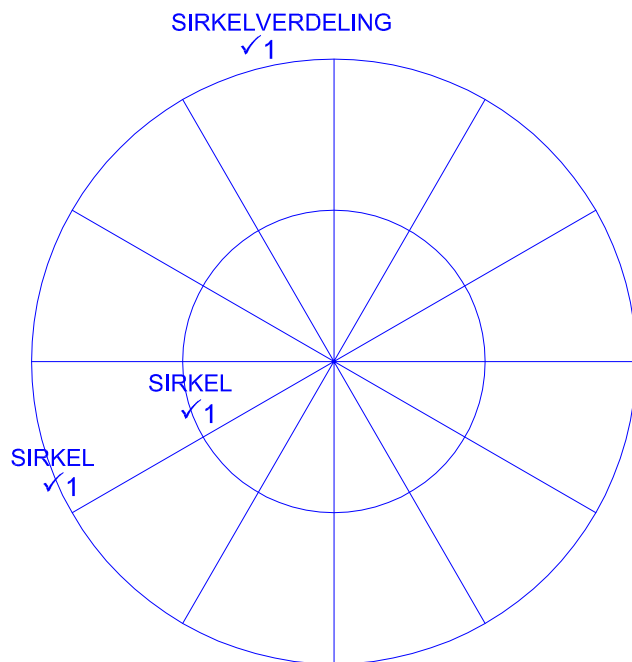


VRAESTEL 2 VRAAG 1
GRAAD 12
November 2013
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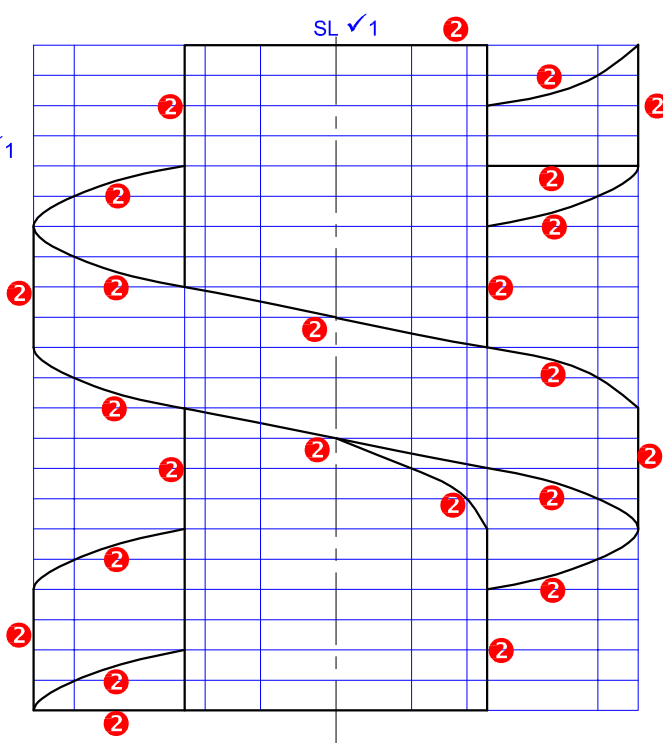


ASSESSERINGSKRITERIA		
1	KONSTRUKSIE	6
2	LOKUS VAN P	8
SUBTOTAAL		14

VRAESTEL 2 VRAAG 2.1
GRAAD 12
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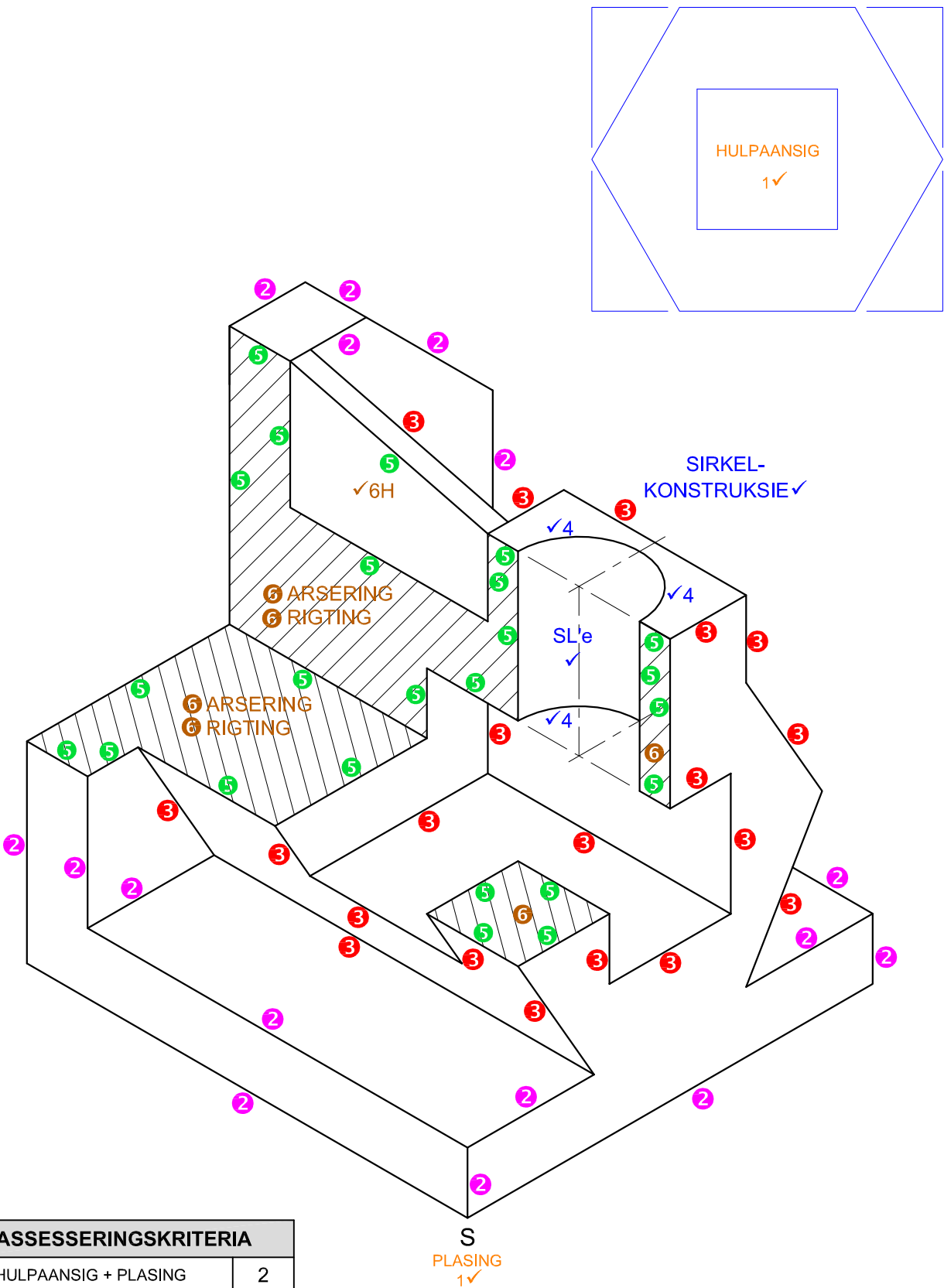


STEEK ✓1
 HORIZONTAL VERDELING ✓1
 VERTIKALE PROJEKSIE ✓1
 LINKSOM ✓1



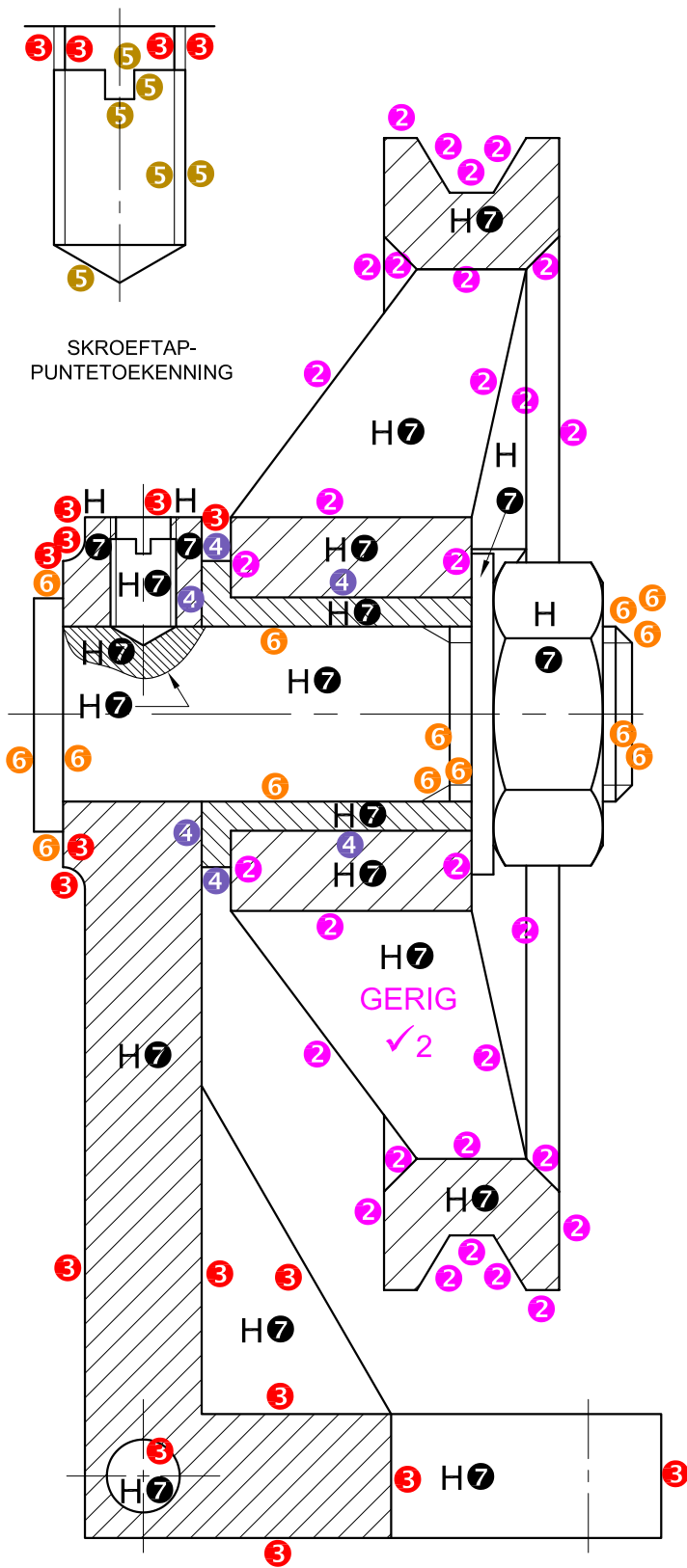
ASSESSERINGSKRITERIA		
1	SL + KONSTRUKSIE	8
2	GLYBAAN	12
SUBTOTAAL		20

VRAESTEL 2 VRAAG 2.2
 GRAAD 12
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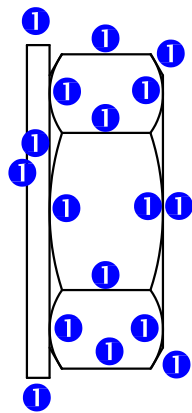


ASSESSERINGSKRITERIA		
1	HULPAANSIG + PLASING	2
2	VOETSTUK	8
3	SESKANTIGE PRISMA	10
4	SIRKELS	5
5	SNIT	12
6	ARSERING	4
TOTAAL		41

VRAESTEL 2 VRAAG 3
GRAAD 12
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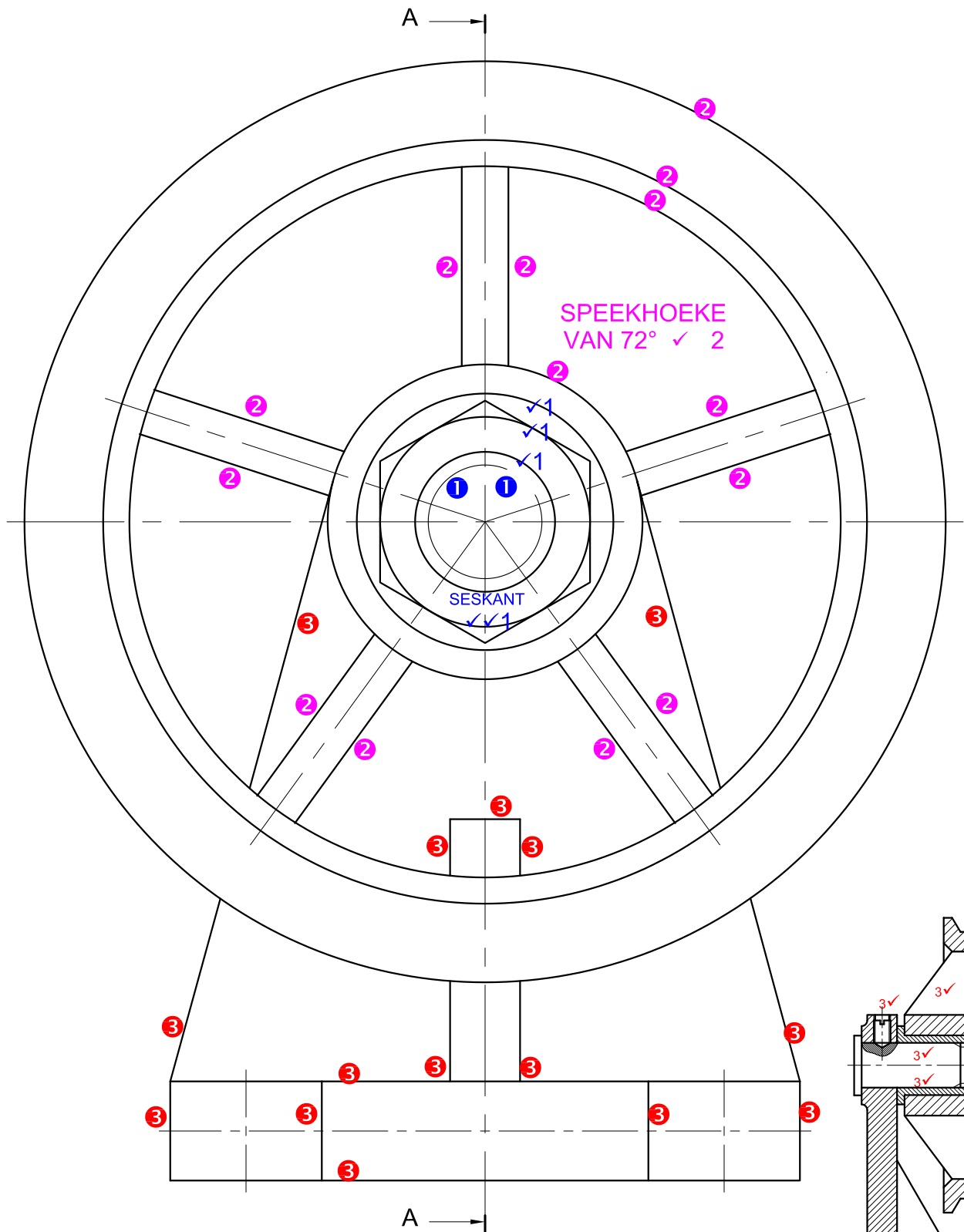
SNIT A-A 3



MOER-EN-WASTER-PUNTETOEKENNING

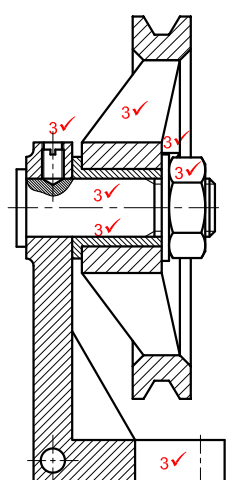
DEURSNEE-VOORAANSIG		
1	M24-MOER + WASTER	8½
2	KATROL	16
3	STEUNSTUK	9½
4	BUS	3
5	SKROEFTAP	3
6	AS	7
7	ARSERING	10
SUBTOTAAL		57

VRAESTEL 2 VRAAG 4
GRAAD 12
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REGTERAANSIG		
1	M24-MOER + WASTER	6
2	KATROL	8
3	STEUNSTUK	7½
SUBTOTAAL		21½

ALGEMEEN		
1	SENTERLYNE	7
2	SNYVLAK + BYSKRIF	3½
3	SAMESTELLING	6
SUBTOTAAL		16½



1 PUNT VIR ELKE
KOMPONENT WAT
KORREK
SAAMGESTEL
(7 ONDERDELE -1 = 6)

VRAESTEL 2 VRAAG 4
GRAAD 12
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