

**ISEBE LEMFUNDO LEMPUMA KOLONI
EASTERN CAPE EDUCATION DEPARTMENT
OOS-KAAP ONDERWYSDEPARTEMENT**

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

ENGINEERING GRAPHICS AND DESIGN P2

NOVEMBER 2014

MEMORANDUM

MARKS: 200

TIME: 3 hours

This memorandum consists of 6 pages.

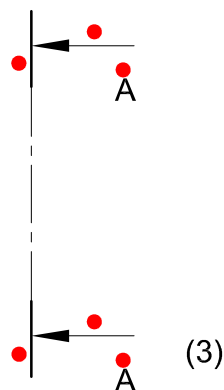
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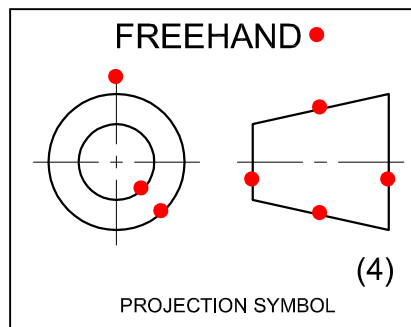
ANSWERS

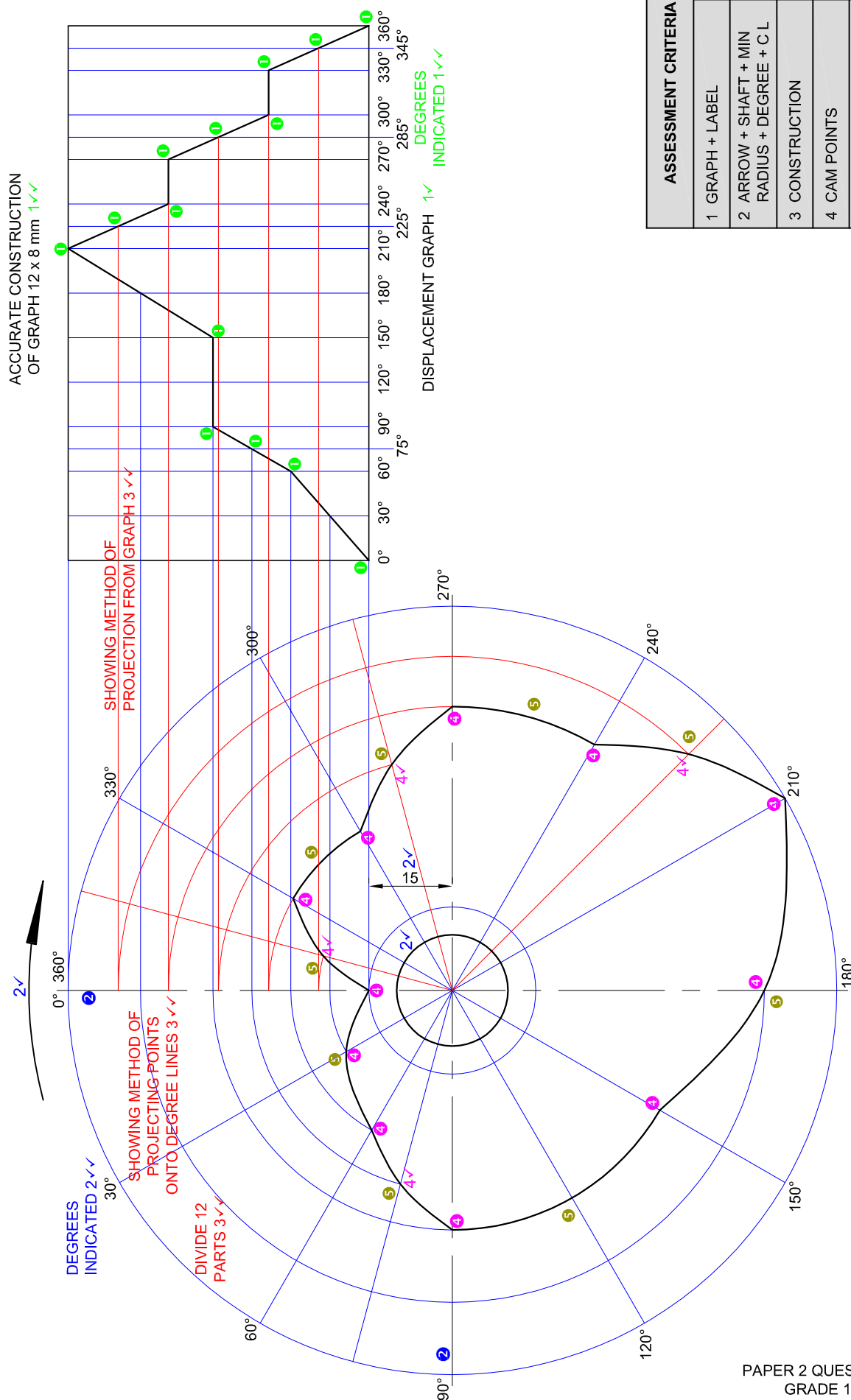
1	15/01/2014	1
2	CAST IRON	1
3	CAD	1
4	1	1
5	6	1
6	$\pm 0,25$	1
7	7 mm	1
8	RIB / WEB	1
9	$\varnothing 30$	2
10	CHAMFER	1
11	120°	1
12	$\varnothing 5$	2
13	$\varnothing 20 / R10$	2
14	8 mm	1
15	HALF-SECTION	1
16	FULL-SECTION	1
17	PITCH CIRCLE DIAMETER	1
18	3	1
19	LEFT VIEW	1
20		3
21		4
	TOTAL	29

ANSWER 20



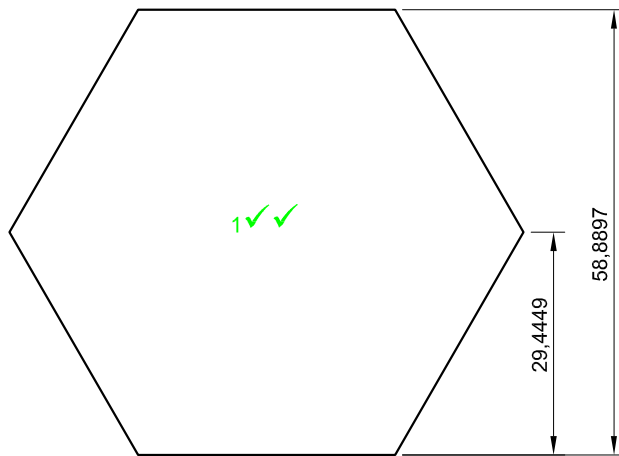
ANSWER 21



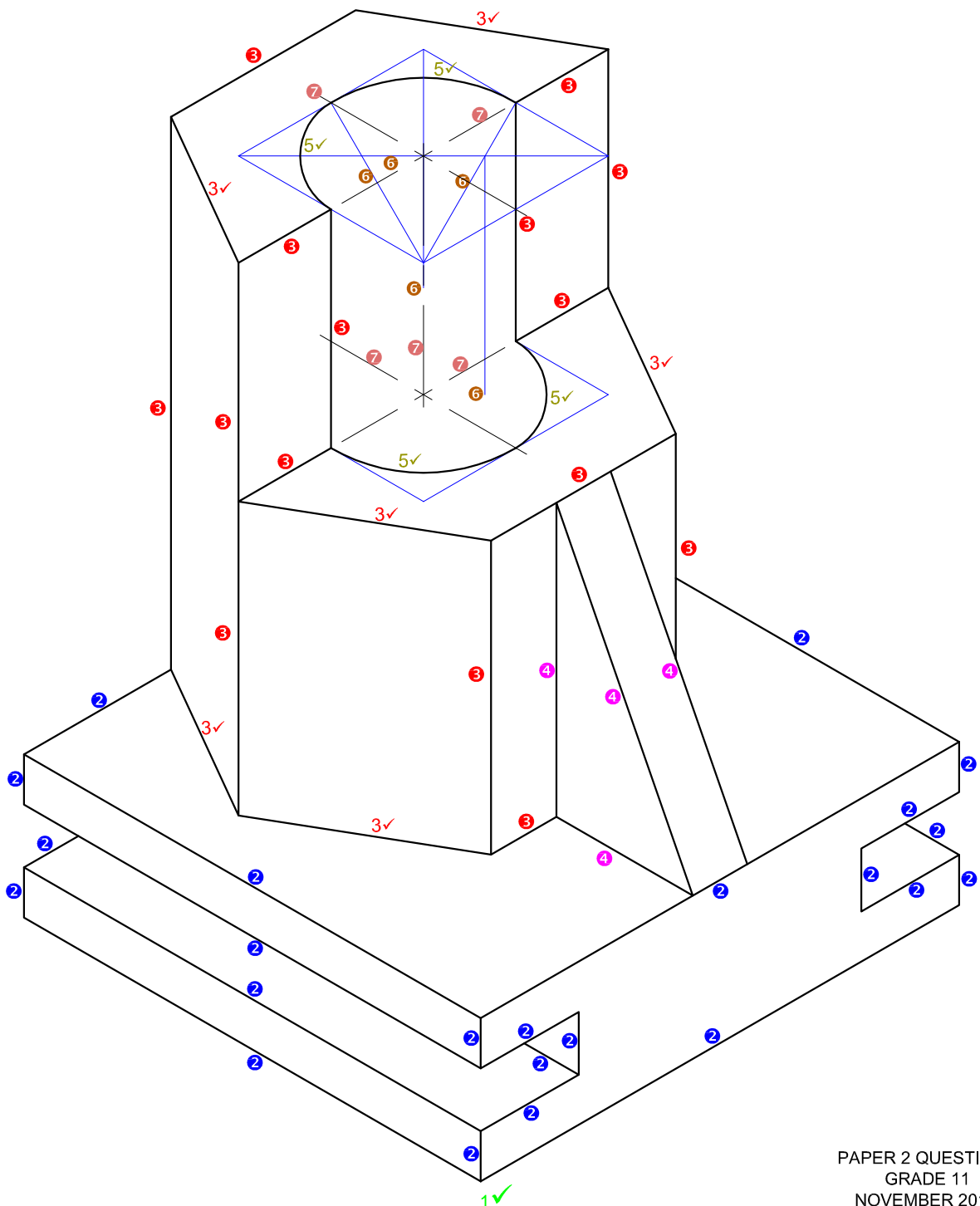


ASSESSMENT CRITERIA	
1 GRAPH + LABEL	12
2 ARROW + SHAFT + MIN RADIUS + DEGREE + C L	6
3 CONSTRUCTION	6
4 CAM POINTS	9½
5 CURVE + QUALITY	4½
TOTAL 38	

PAPER 2 QUESTION 2
GRADE 11
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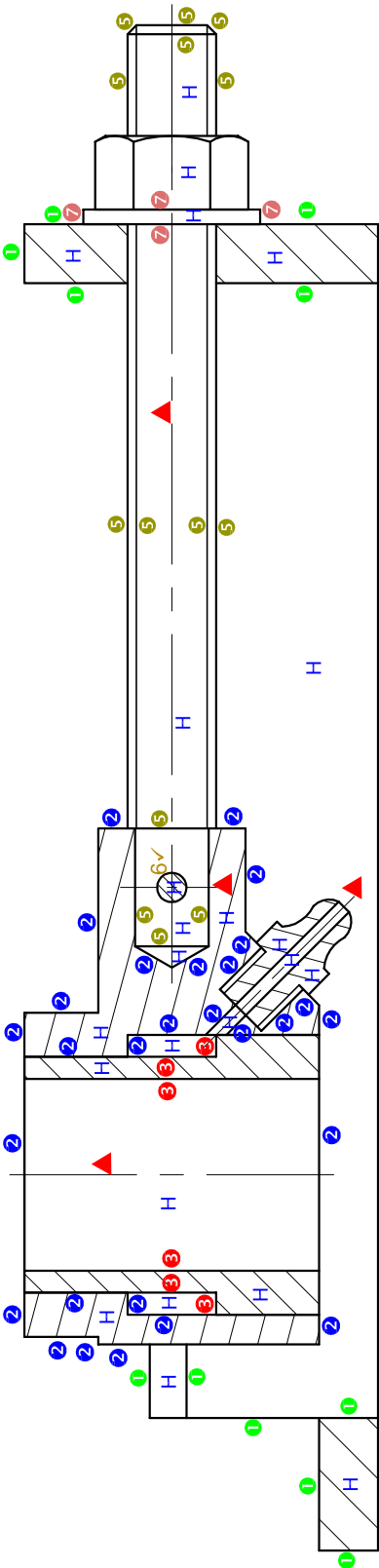

 STAPLE
**ASSESSMENT CRITERIA**

1. AUX. VIEW + PLACING	3
2. BASE	11½
3. HEXAGON	13½
4. WEB	2
5. ISOMETRIC CIRCLES	4
6. CIRCLE CONSTRUCTION	2½
7. CENTRE LINES	2½
TOTAL	39

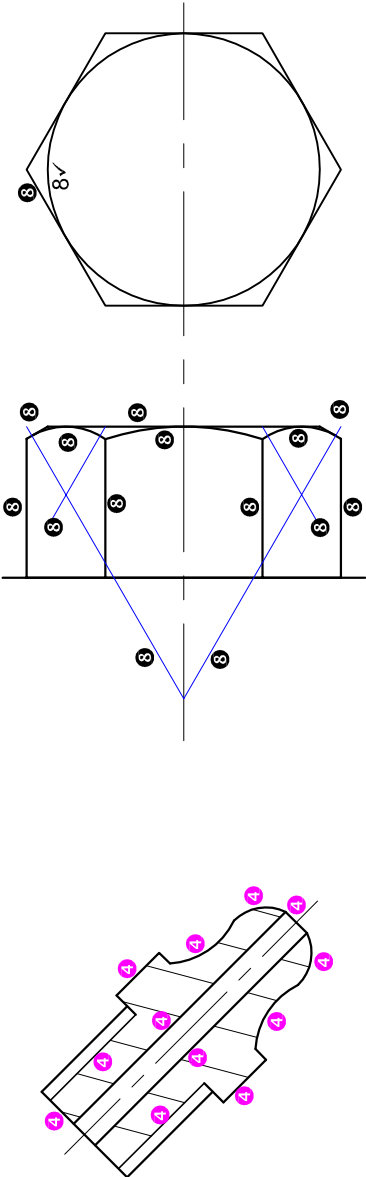


PAPER 2 QUESTION 3
GRADE 11
NOVEMBER 2014
MEMORANDUM

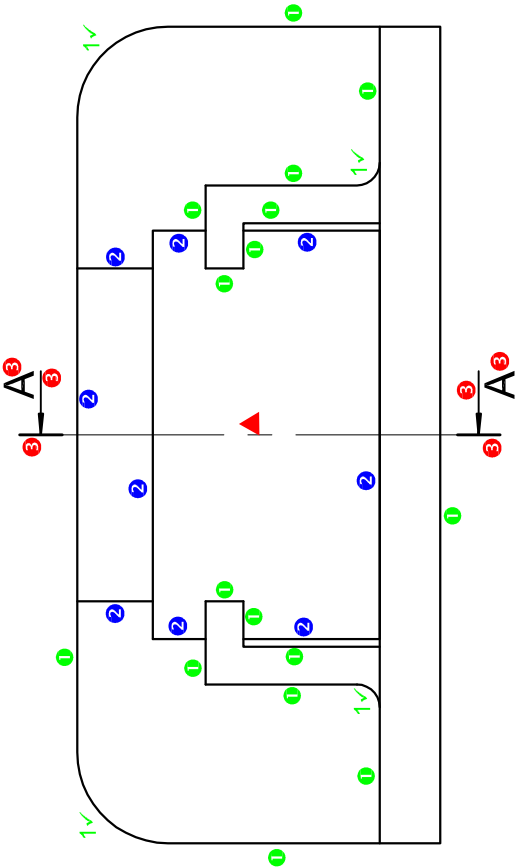
STAPLE



SECTION AA ✓✓
SCALE 1:1 ✓



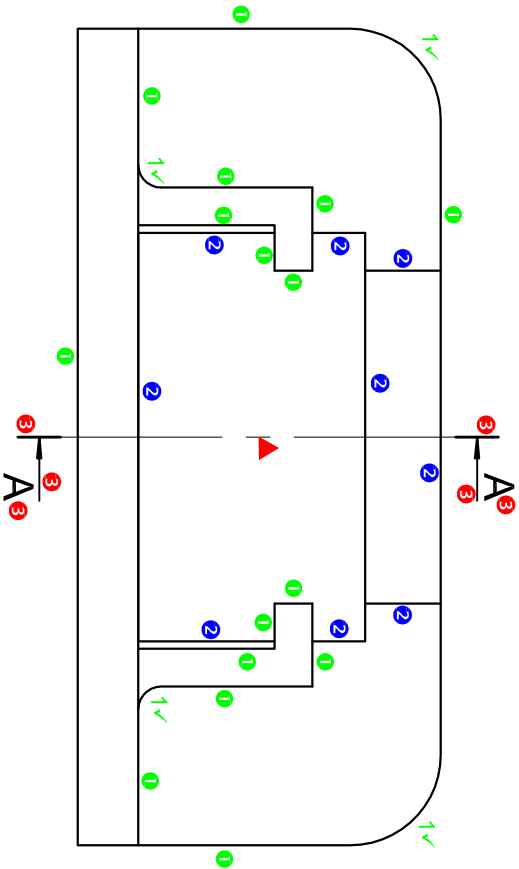
SECTIONAL FRONT VIEW	6
	14
1. BASE	3
2. HOUSING	6
3. BUSH	7
4. GREASE NIPPLE	1
5. SHAFT	2
6. PIN	8½
7. WASHER	47½
8. NUT	46½
SUBTOTAL	94
SUBTOTAL	
TOTAL	

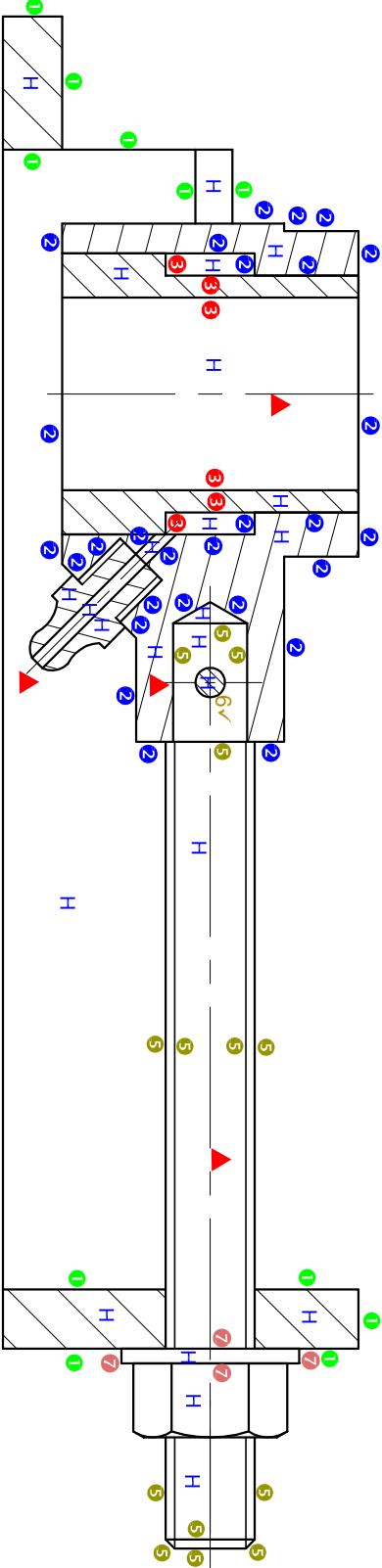


ASSESSMENT CRITERIA	
LEFT VIEW + GENERAL	
1. BASE	12
2. HOUSING	4½
3. SECTION AA	3
▲ CENTERLINES	5
LABEL	3
HATCHING	12
ASSEMBLY	7
SUBTOTAL	46½

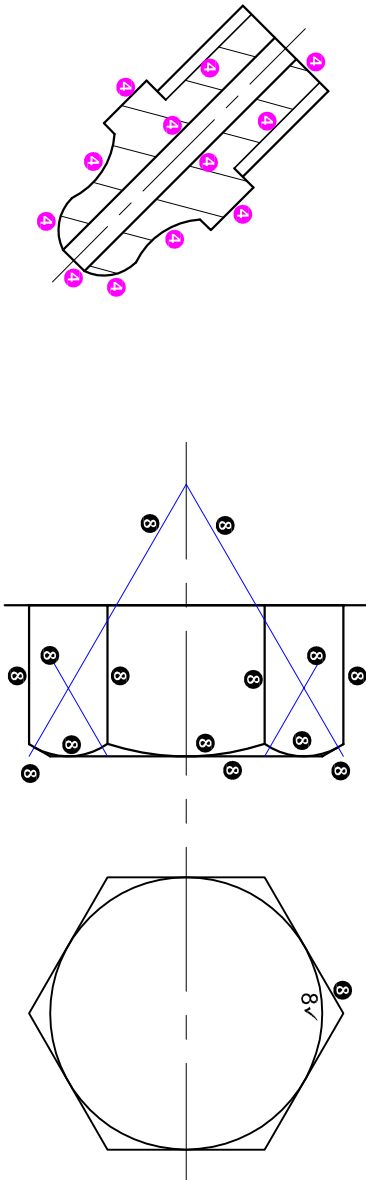


ASSESSERINGSKRITERIA	
LINKERAANSIG + ALGEMEEN	
1. BASIS	12
2. HULS	4½
3. SNYVLAK AA	3
▲ SENTERLYNE	5
BYSKRIFTE	3
ARSERING	12
SAWESTELLING	7
SUBTOTAAL	46½
TOTAAL	96



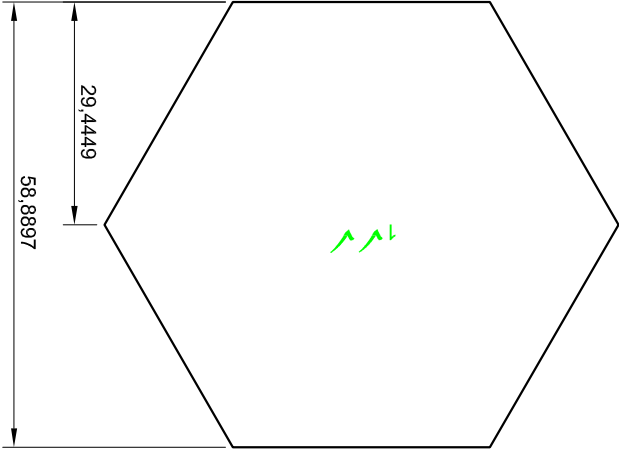
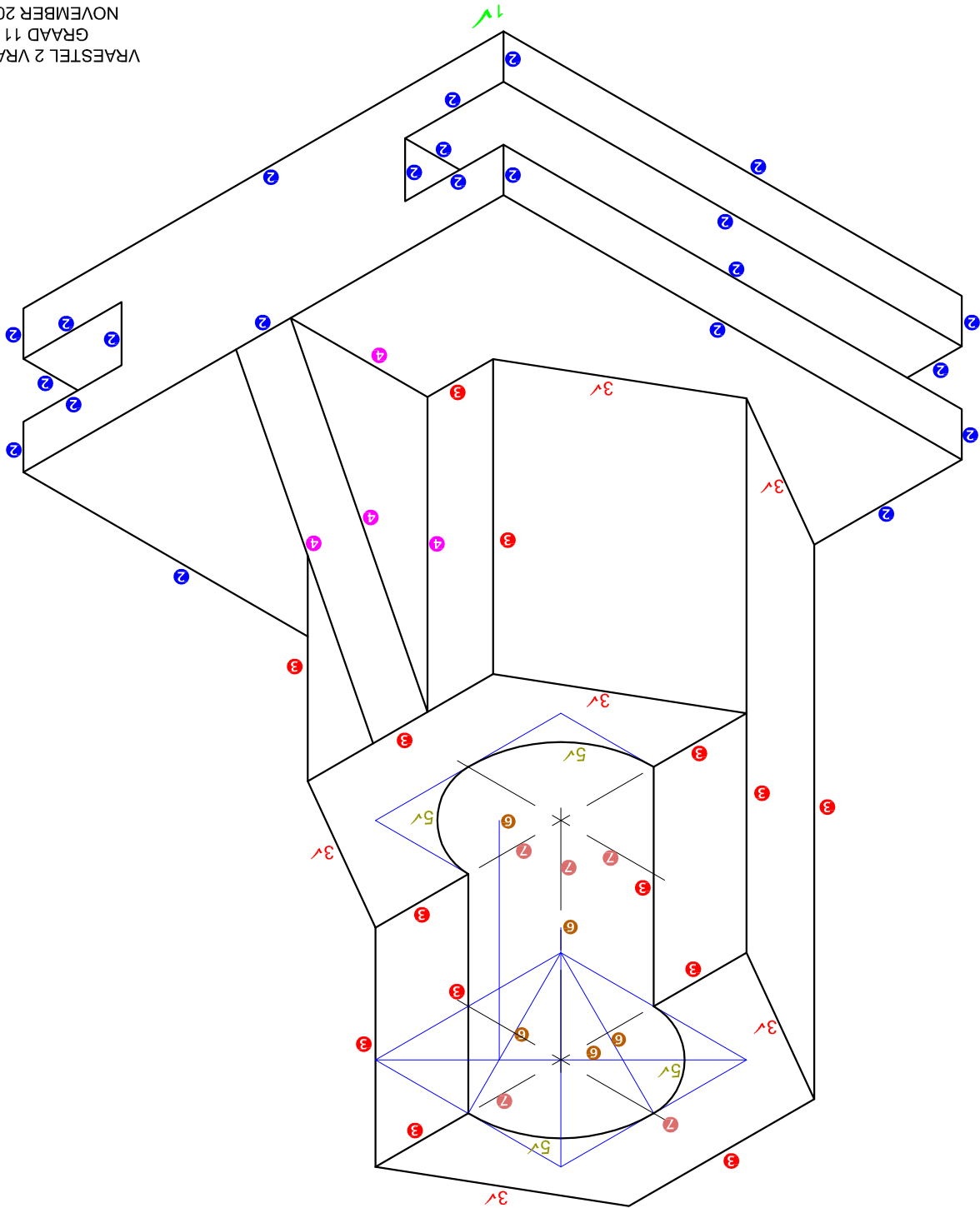


SNIT AA
SKAAL 1:1

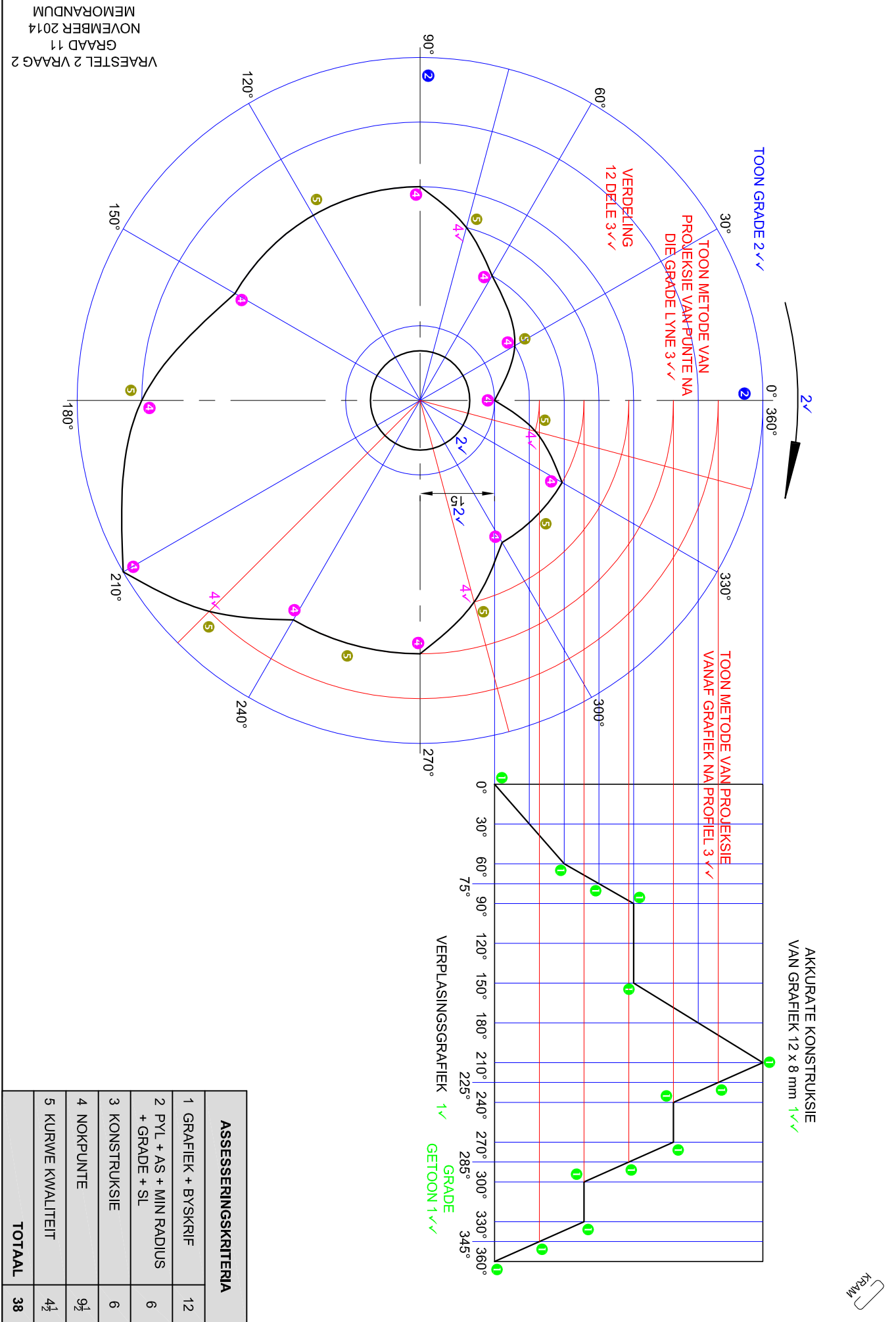


ASSESSERINGSKRITERIA	
DEURSNEE VOORAANSIG	
1. BASIS	6
2. HULS	14
3. BUS	3
4. GHRIESNIPPEL	6
5. AS	7
6. PEN	1
7. WASTER	2
8. MOER	8½
SUBTOTAAL	47½
SUBTOTAAL	46½
TOTAAL	94

VRAESTEL 2 VRAAG 3
GRAAD 11
NOVEMBER 2014
MEMORANDUM

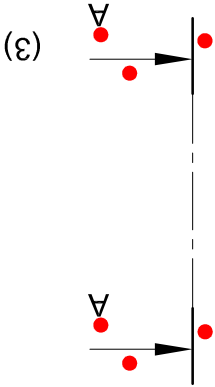


ASSESSERINGSKRITERIA	
1. HULPAANSIG + PLASING	3
2. BASIS	11½
3. SESKANT	13½
4. RIB	2
5. SIRKEL	4
6. SIRKELKONSTRUKSIES	2½
7. SENTERLYNE	2½
TOTAAL	39

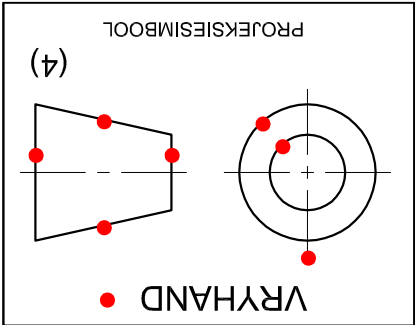


ANTWOORDE		
1	15/01/2014	1
2	GIETYS TER	1
3	CAD / ROT	1
4	1	1
5	6	1
6	± 0,25	1
7	7 mm	1
8	RIB / WEB	1
9	Ø30	2
10	AFKANTING	1
11	120°	1
12	Ø5	2
13	Ø20 / R10	2
14	8 mm	1
15	HALF-DEURSNEE	1
16	VOL-DEURSNEE	1
17	STEEK SIRKEL DIAMETER	1
18	3	1
19	LINKERAANSIG	1
20		3
21		4
TOTAAL		29

ANTWOORD 20



ANTWOORD 21



INGENIEURSGRAFIKA EN -ONTWERP V2
NOVEMBER 2014
MEMORANDUM

GRAAD 11

NASIONALE
SENIOR SERTIFIKAAT

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