

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

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 11**

**ENGINEERING GRAPHICS AND DESIGN P2**

**NOVEMBER 2018**

**MEMORANDUM**

**MARKS: 200**

**TIME: 3 hours**

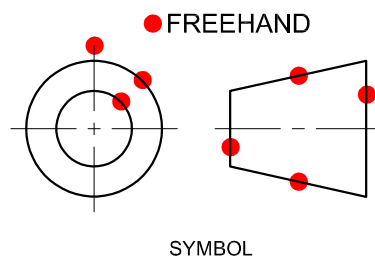
**This memorandum consists of 6 pages.**

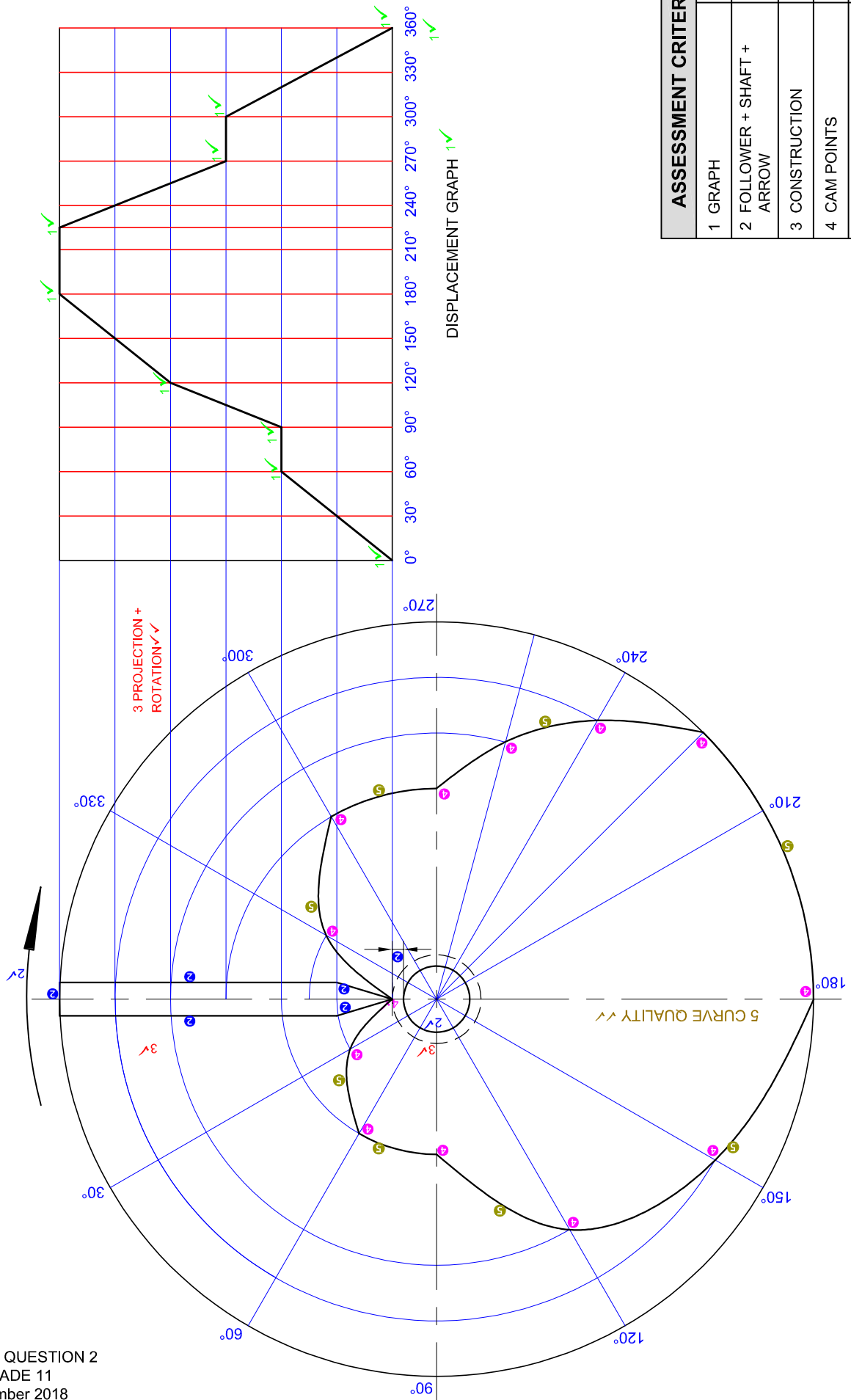
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<b>ANSWERS</b>		
1	2018/05/15	1
2	REINSTEEL ENGINEERING	1
3	1 : 5	1
4	HARDEN	1
5	2018/05/13	1
6	RS 501 E	1
7	EXPLODED ISOMETRIC VIEW	1
8	SECTION VIEW	1
9	0,25	1
10	PART SECTION	1
11	45°	1
12	RIB/WEB	1
13	FILLET	1
14	18	2
15		11
16		4
	<b>TOTAL</b>	<b>30</b>

<b>ANSWER 15</b>	
1	CIRCLIP
2	WASHER
3	SHAFT/AXLE
4	KEY
5	PULLEY/WHEEL
6	BUSH
7	BEARING
8	BASE/BRACKET
9	SPACER
10	GEAR/SPROCKET
11	CASTLE NUT

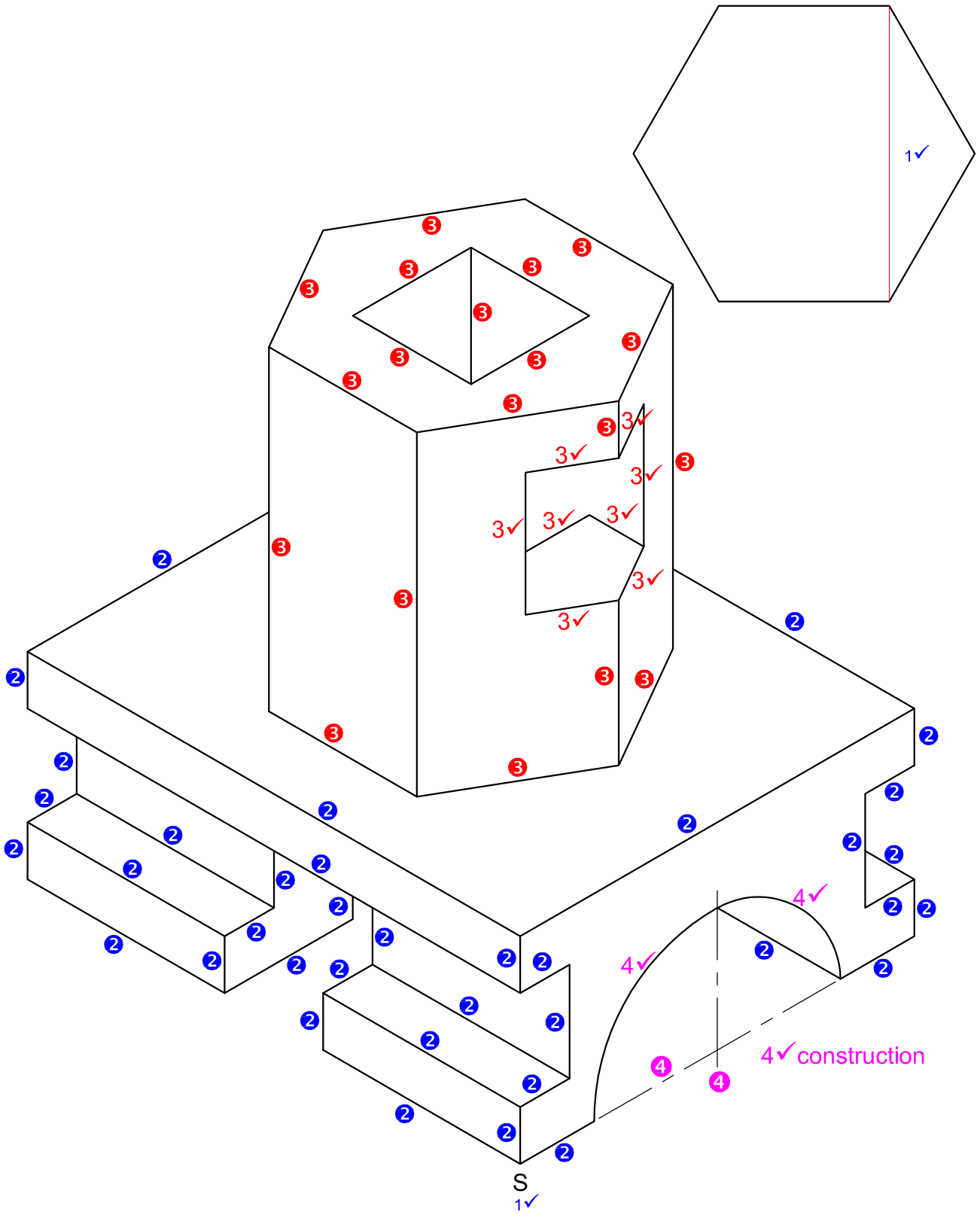
**ANSWER 16**





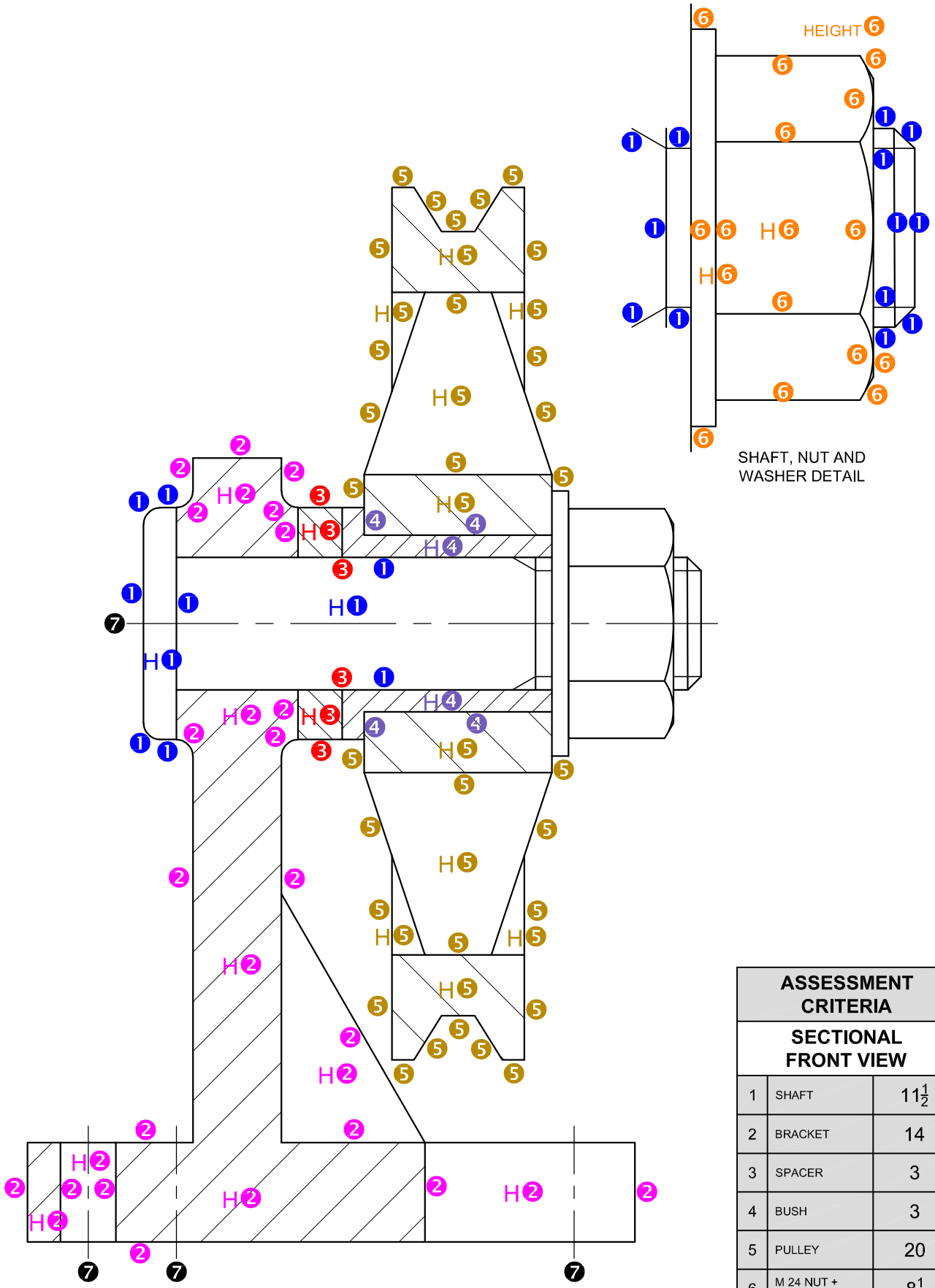
ASSESSMENT CRITERIA	
1 GRAPH	11
2 FOLLOWER + SHAFT + ARROW	5
3 CONSTRUCTION	4
4 CAM POINTS	7
5 CURVE + QUALITY	6
<b>TOTAL</b>	<b>33</b>

PAPER 2 QUESTION 2  
 GRADE 11  
 November 2018  
 MEMORANDUM



ASSESSMENT CRITERIA	
1. AUXILIARY VIEW + PLACEMENT	2
2. BASE	18½
3. HEXAGONAL PRISM	17½
4. CIRCLE + CL	4
<b>TOTAL</b>	<b>42</b>

PAPER 2 QUESTION 3  
 GRADE 11  
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 MEMORANDUM



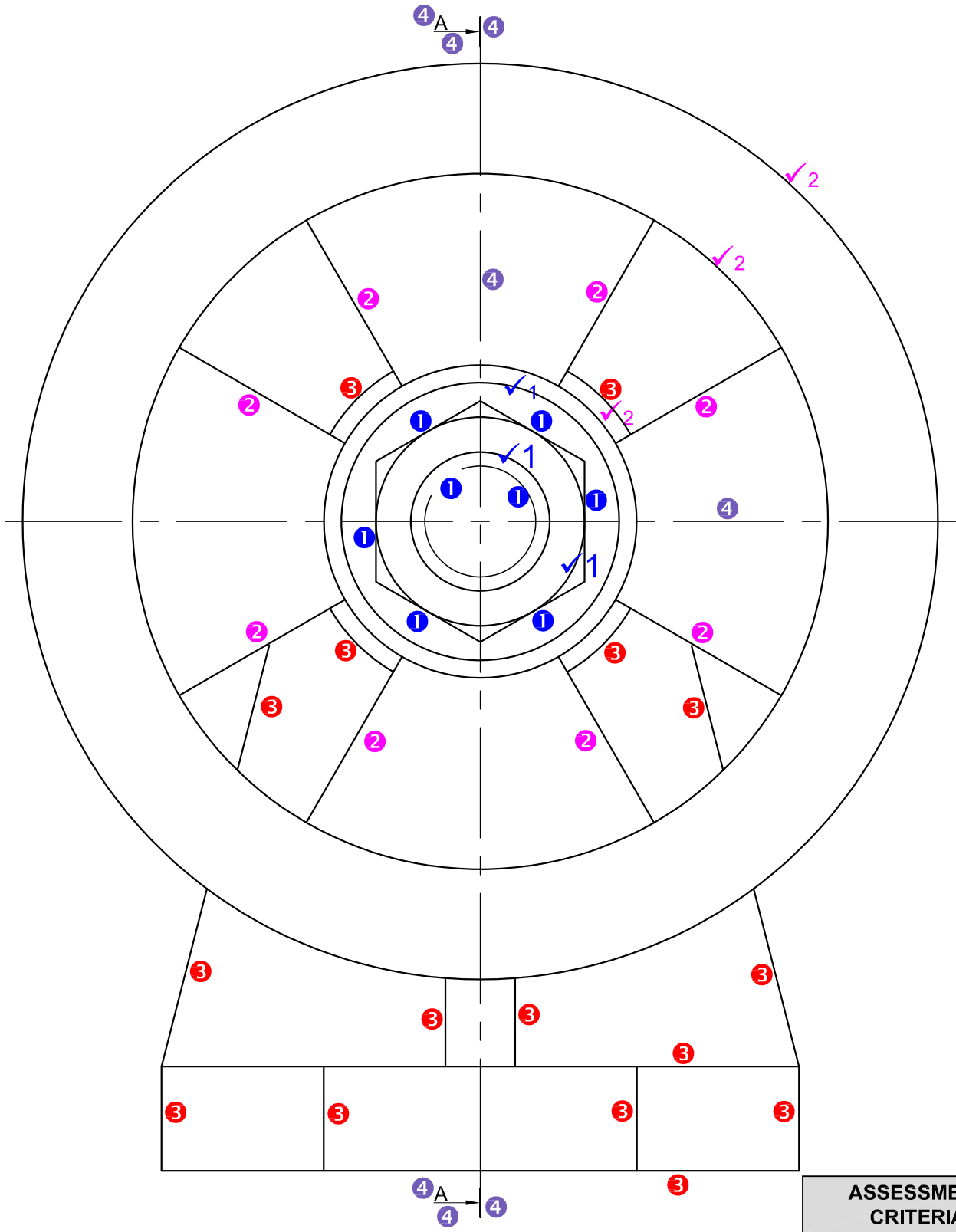
SHAFT, NUT AND WASHER DETAIL

SECTION AA ✓

ASSESSMENT CRITERIA		
SECTIONAL FRONT VIEW		
1	SHAFT	11½
2	BRACKET	14
3	SPACER	3
4	BUSH	3
5	PULLEY	20
6	M 24 NUT + WASHER	8½
7	CENTRE LINES + LABEL	3
8	ASSEMBLY	6
<b>SUBTOTAL</b>		<b>69</b>

PAPER 2 QUESTION 4.1  
 GRADE 11  
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1 MARK FOR EACH COMPONENT CORRECTLY ASSEMBLED MAX 6



ASSESSMENT CRITERIA		
RIGHT VIEW		
1	M 24 NUT + WASHER	7
2	PULLEY	7
3	BRACKET	8
4	CUTTING PLANE + CL	4
<b>SUBTOTAL</b>		<b>26</b>
<b>TOTAL</b>		<b>95</b>

PAPER 2 QUESTION 4.2  
 GRADE 11  
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