

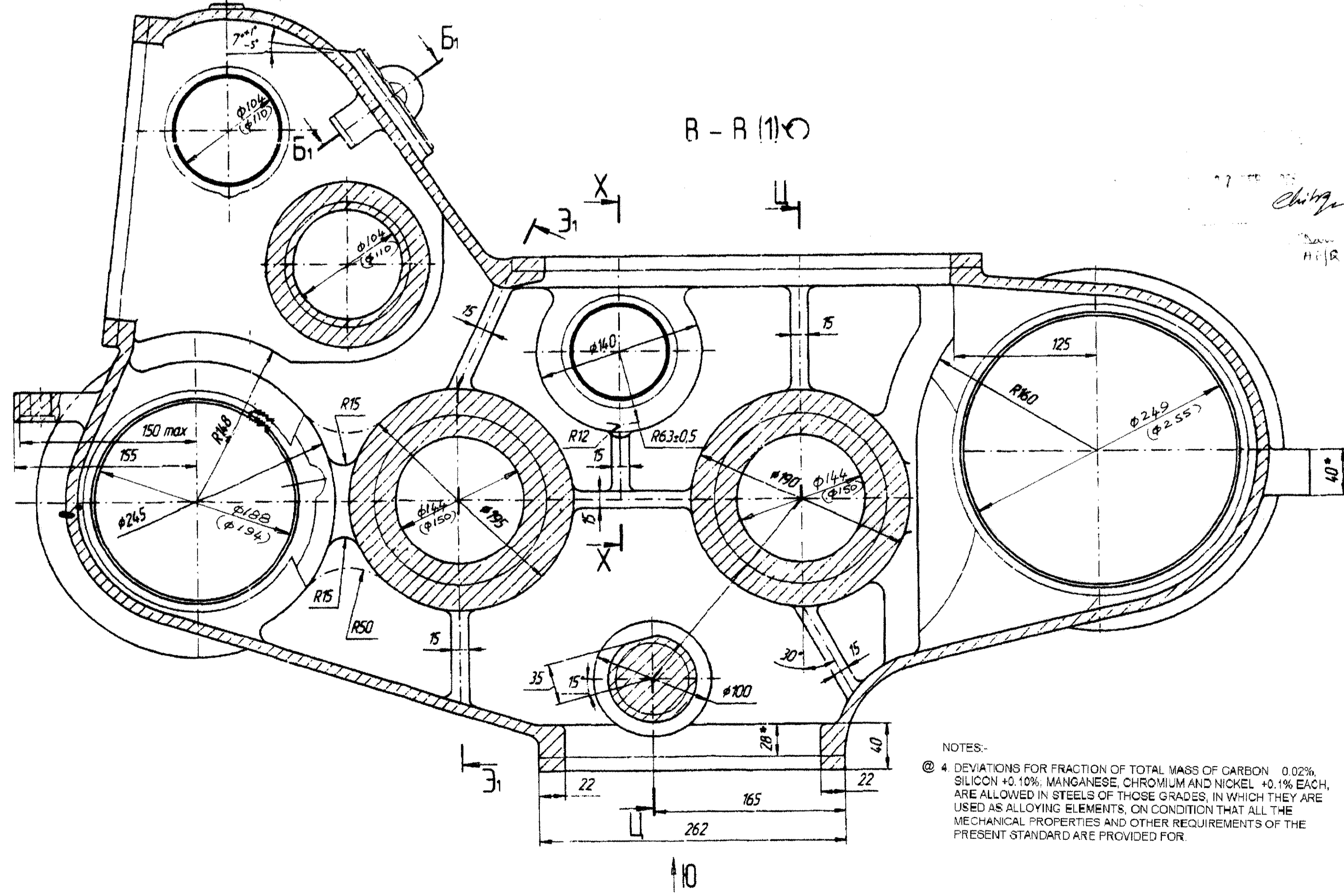
- SHRINKAGE 1.5° 10'
- UNSPECIFIED CASTING RADII 3... 20MM.
- FILL UP BOSSES AND FLANGES OF UPTO Ø120 TO 1MM AND ABOVE Ø120 TO 2MM.
- UNSPECIFIED Moulding DRAFTS:
 - FOR COMPONENT - AS PER PART DRAWING.
 - FOR CORE MARKS - 1:10.
 - FOR RUNNERS - 1:50.
- UNSPECIFIED CLEARANCES BETWEEN CORE MARKS AND Mould MARKS SHOULD BE 0.5... 1.0MM.
- THE PATTERN SET CONSISTS OF:
 - UPPER PATTERNS MOUNT.
 - LOWER PATTERNS MOUNT.
 - CORE BOXES NO. 1, 2, 3, 4, 5, 6, 7, 8, 9.
 - JUGS FOR SHAPING CORES 5a, 6, 8, 5.
 - PATTERN OF CHILL NO. 1.
- MAKE CORE BOXES NO. 6a AND 6b HIGHTER BY 2MM ALONG THE PARTING WITH SUBSEQUENT PLANING.
- MAKE SHRUE IN CERAMIC PIPES TO GOST 5500-75.
- CASTING SHOULD BE TESTED FOR RADIOGRAPHIC TEST AS PER ASTM E 446-98 LEVEL II.

NOTES:
 1) ALTERNATE MATERIAL- STEEL OF GRADES 25Π, 30Π GOST 977-88.
 20Π1ΦΠ, 20ΠΠ TY 24.05.486-82 И 20ΠТΠ TY 3-331-85
 2) REQUIREMENT FOR CASTING AS PER 172-TY4
 3) ACCURACY OF CASTING 11-7-0-13T GOST 26645-85

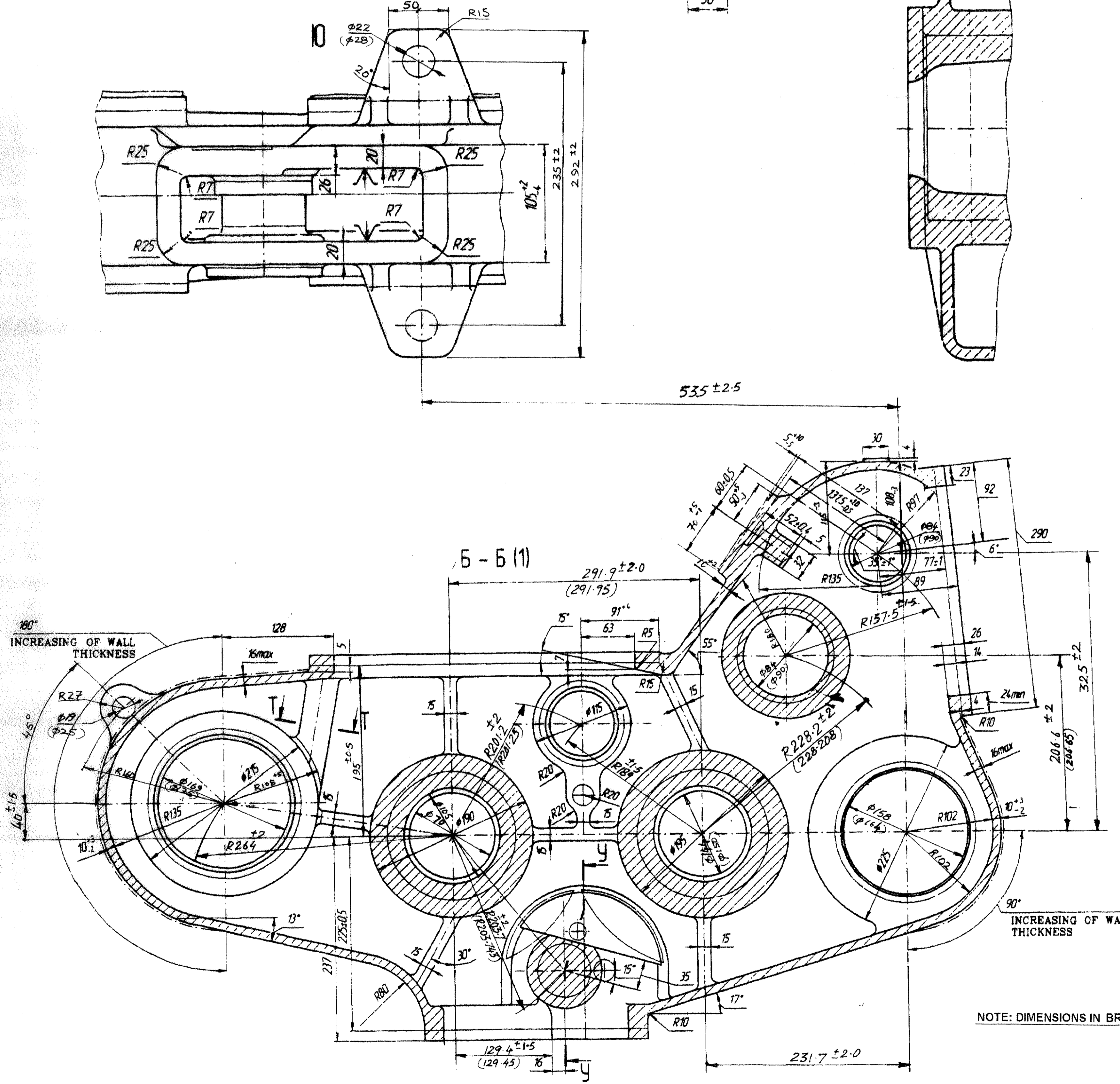
CHEMICAL COMPOSITION		PHYSICAL PROPERTIES (MINIMUM)	
25Π II GOST-977-75		25Π II GOST-977-75	
C	0.22 - 0.30	YIELD STRENGTH	30 Kgf/mm ²
Mn	0.35 - 0.90	UTS	50 Kgf/mm ²
Si	0.20 - 0.52	ELONGATION	22 %
Cr	0.30 MAX.	REDUCTION	33%
Ni	0.30 MAX.	IMPACT STRENGTH	3.5 Kgf.m/cm ²
Cu	0.30 MAX.		
S	0.045 MAX.		
P	0.04 MAX.		

ALTERNATE INDEGENOUS MATERIAL- IS 1032-82 Gr 25-52
 AUTH: GOA(HV) LETTER NO. 09/1/FOINDO VIMT/POE DT. 24.03.2005

1	TGU CASING (CASTING)	WT. = 200 Kg (Approx)
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NOTES:
 4 DEVIATIONS FOR FRACTION OF TOTAL MASS OF CARBON 0.02%
 SILICON ±0.10% MANGANESE CHROMIUM AND NICKEL ±0.1% EACH
 ARE ALLOWED IN STEELS OF THOSE GRADES, IN WHICH THEY ARE
 USED AS ALLOYING ELEMENTS, ON CONDITION THAT ALL THE
 MECHANICAL PROPERTIES AND OTHER REQUIREMENTS OF THE
 PRESENT STANDARD ARE PROVIDED FOR

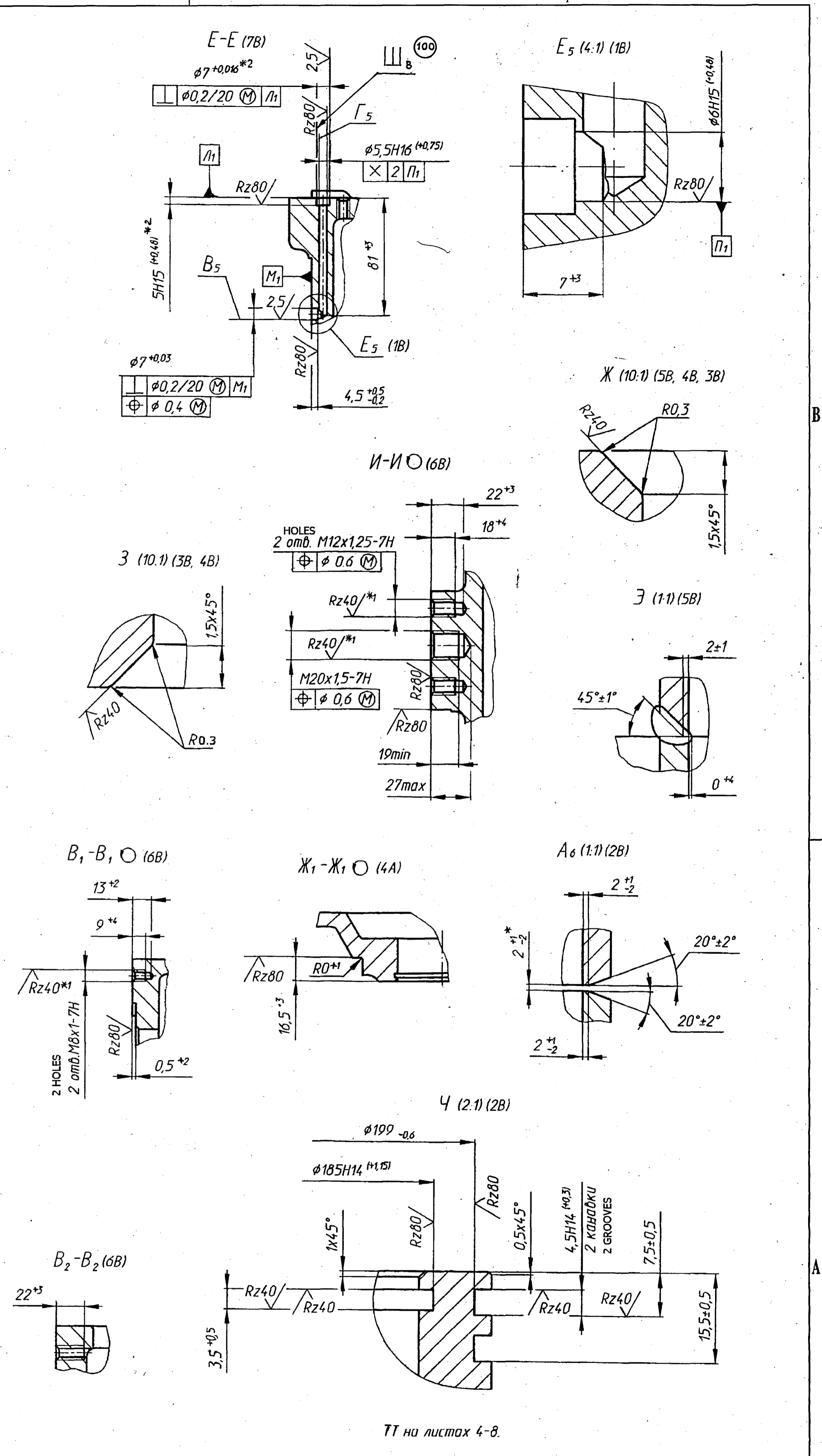
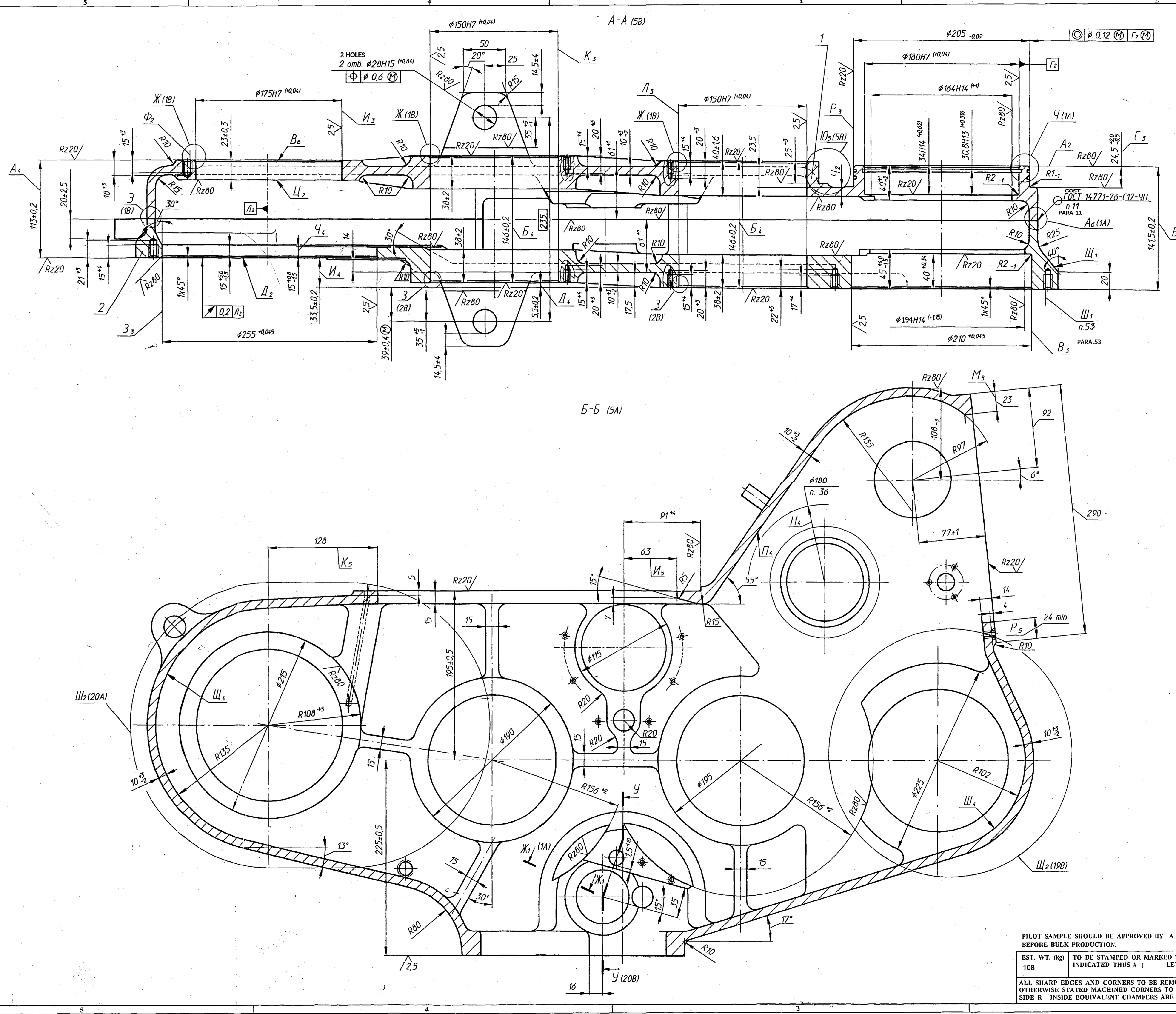
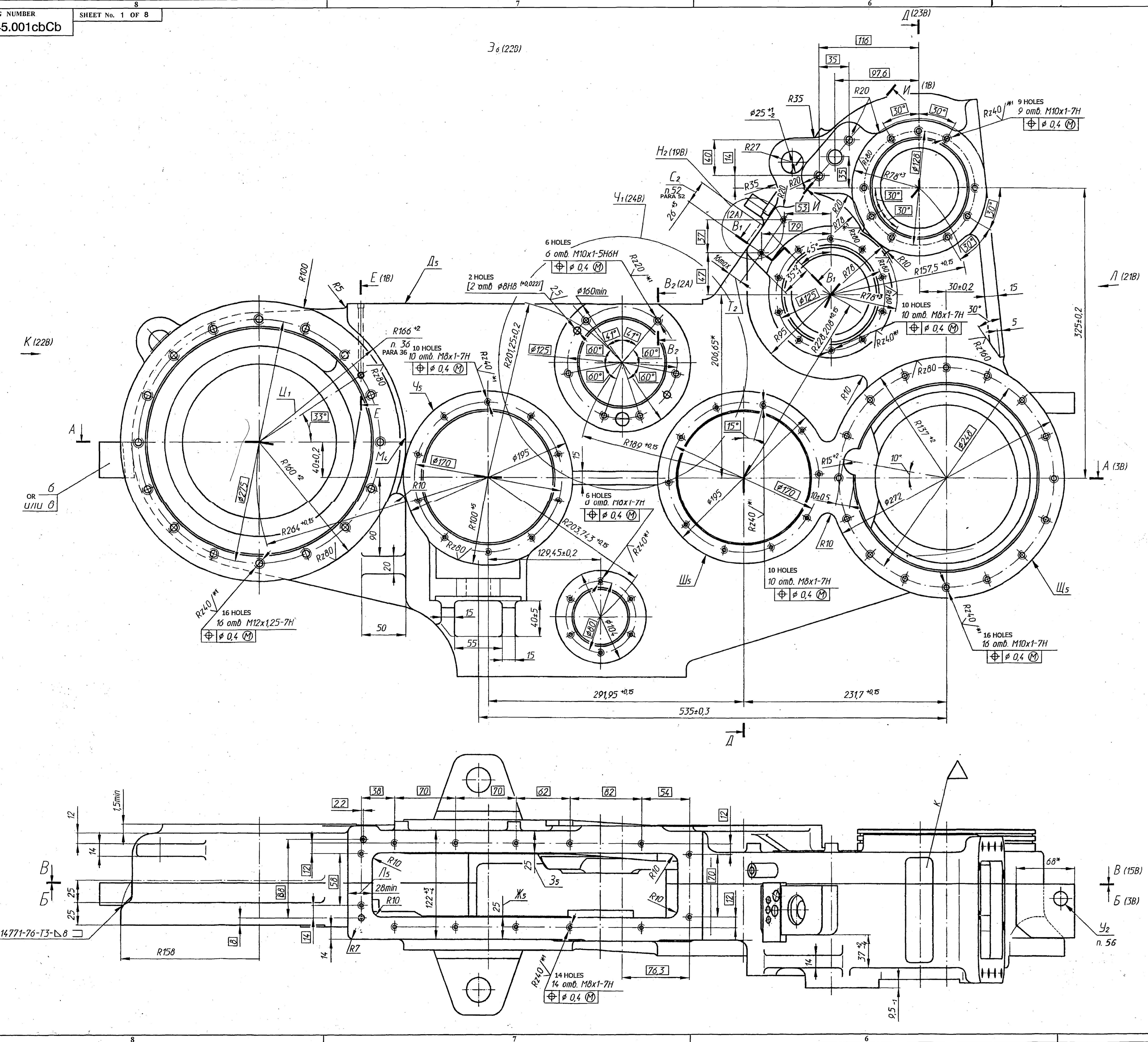


NOTE: DIMENSIONS IN BRACKETS () ARE MACHINING DIMENSIONS

BY ORDER OF THE DIRECTOR GENERAL OF DEFENSE PRODUCTION AND SUPPLY SERVICES
 THE CHIEF ENGINEER
 THE CHIEF DESIGNER
 THE CHIEF DRAWER
 THE CHIEF CHECKER
 THE CHIEF APPROVER

DR. O. F. MURADPUR
 MACHINERY TOOL PROTOTYPING FACTORY, AMBARNATH
 D.O. 175-45-001 Cd (MSP-1)

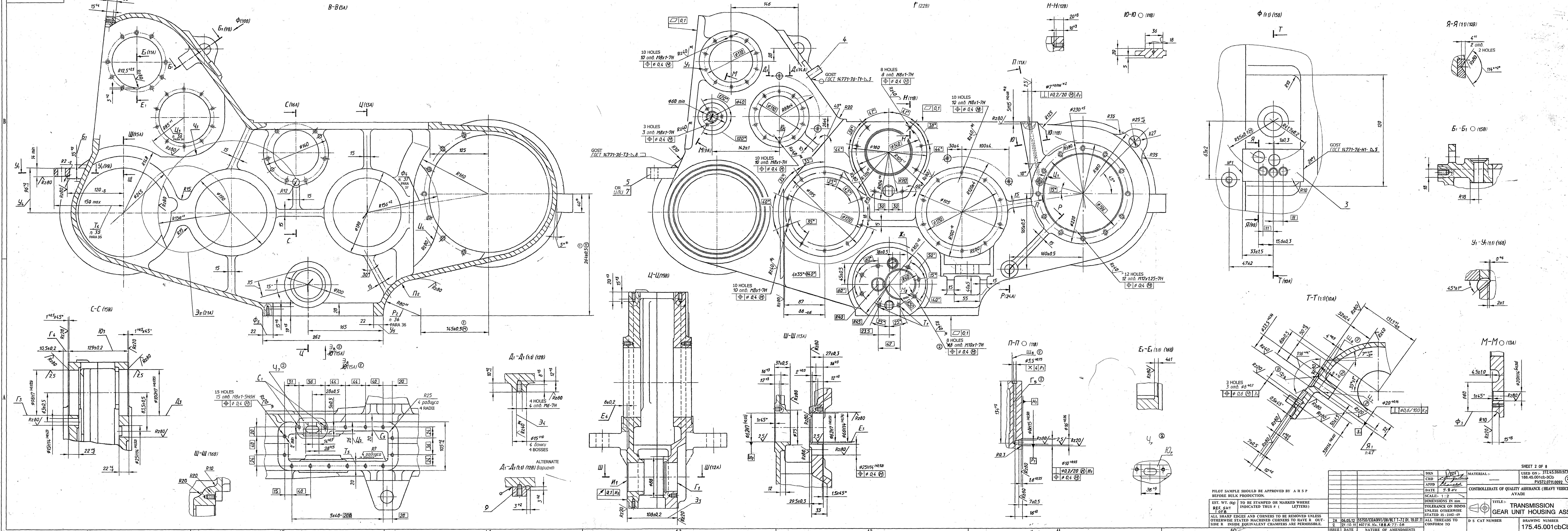
DRG. INDANISED BASED ON RUSSIAN ORIGINAL ISSUE 95
COMMON TO T-72 & BLT



356
SUPPLY CODE
U-01-1-2
D 90059

PILOT SAMPLE SHOULD BE APPROVED BY A H S P
BEFORE BULK PRODUCTION.
EST. WT. (kg) 108
DIMENSIONS IN mm
TOLERANCE ON DIMS
UNLESS OTHERWISE
STATED IS: 2102-69
ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS
OTHERWISE STATED. MACHINED CORNERS TO HAVE R-OUT-
SIDE R-INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	CHD	APPD	DATE	SCALE	MATERIAL	USED ON: 175.45.060CbCb 188.45.001cb-3Cb PV512.011.0092
					CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
					TITLE:	TRANSMISSION GEAR UNIT HOUSING ASSY.
					D S CAT NUMBER	DRAWING NUMBER 175.45.001cbCb



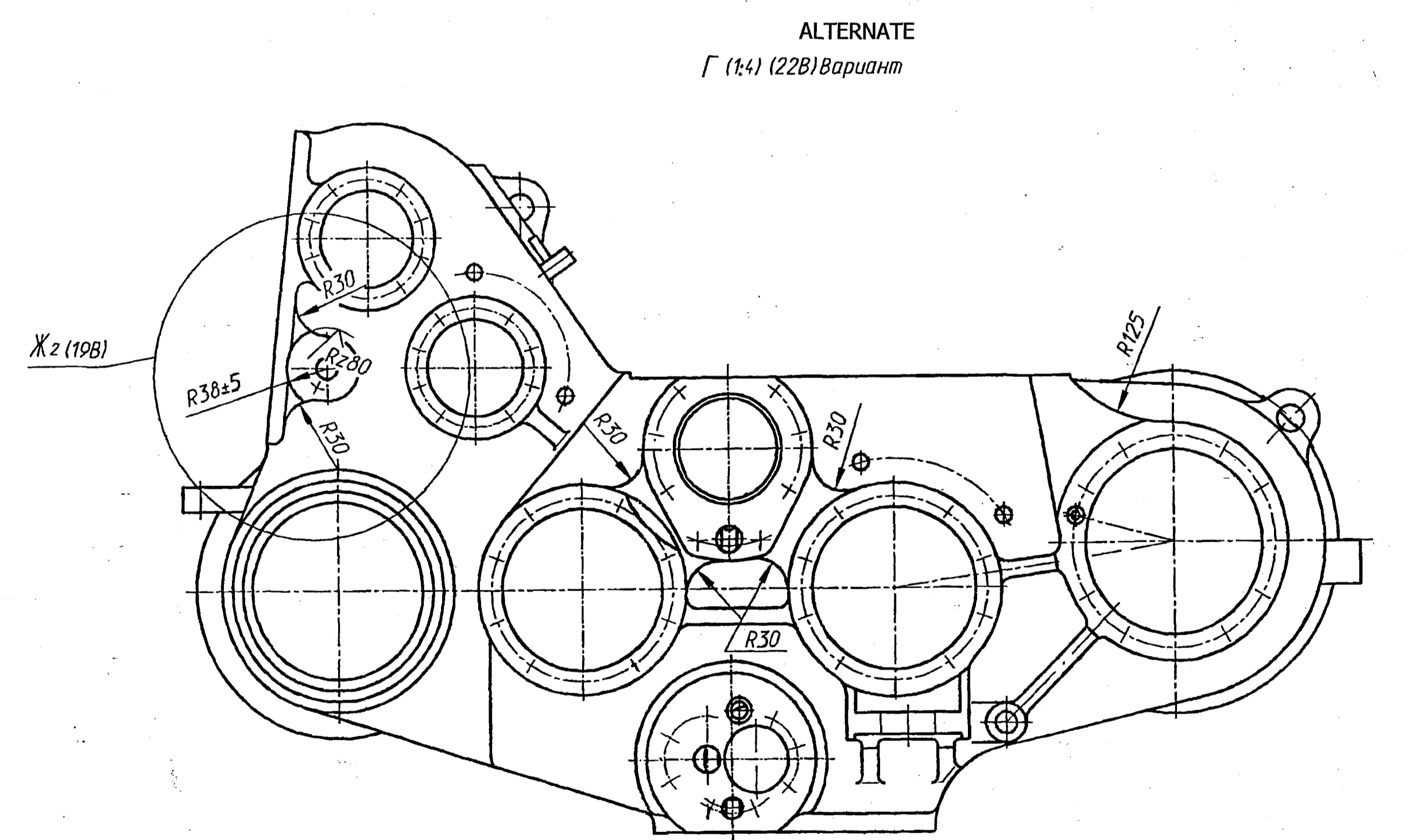
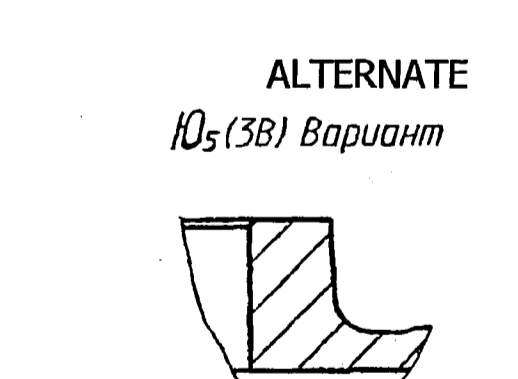
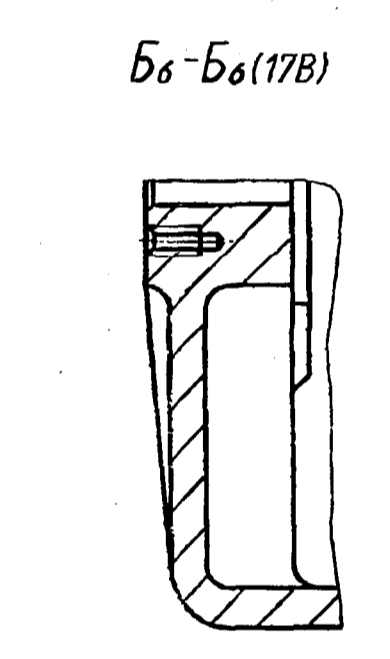
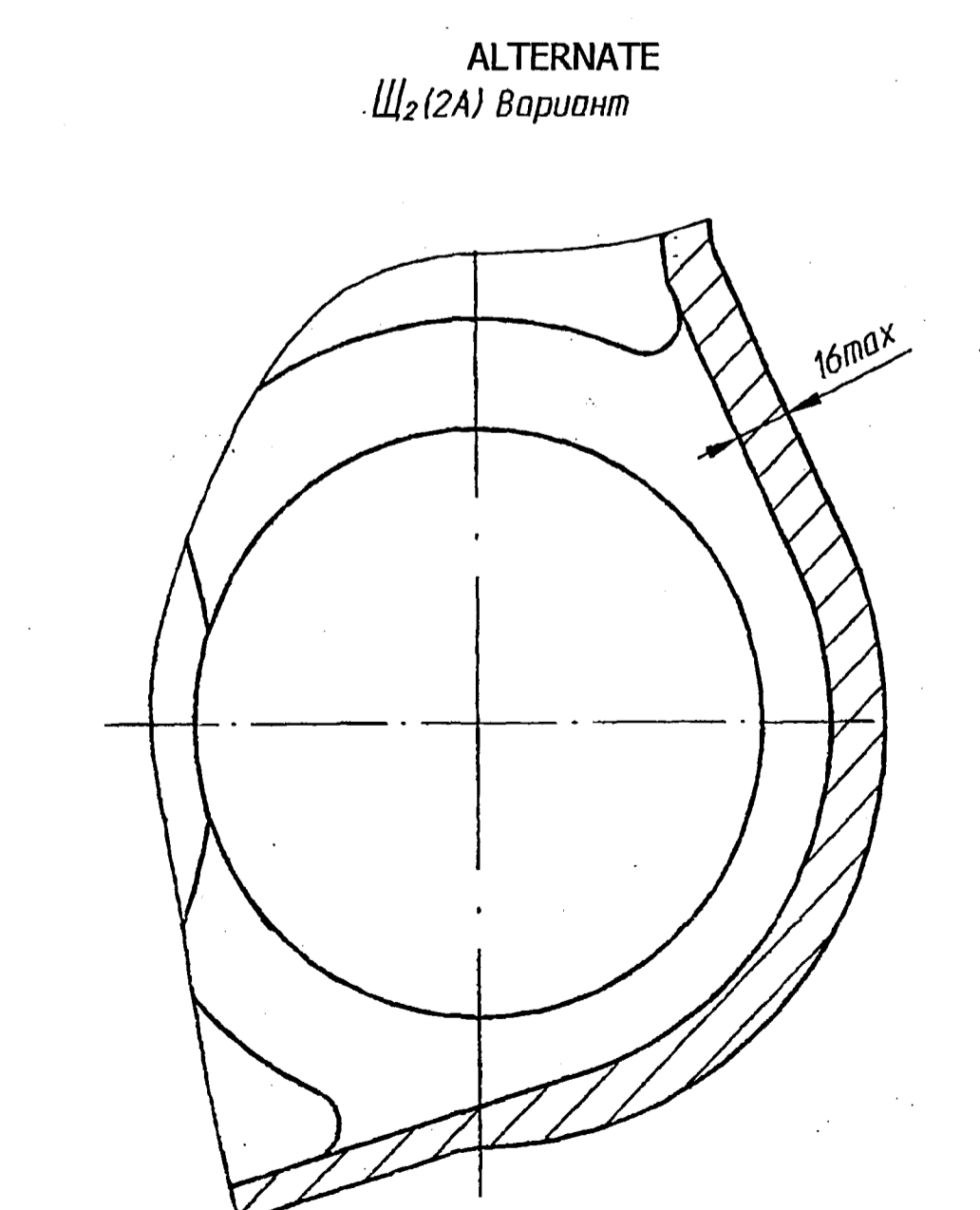
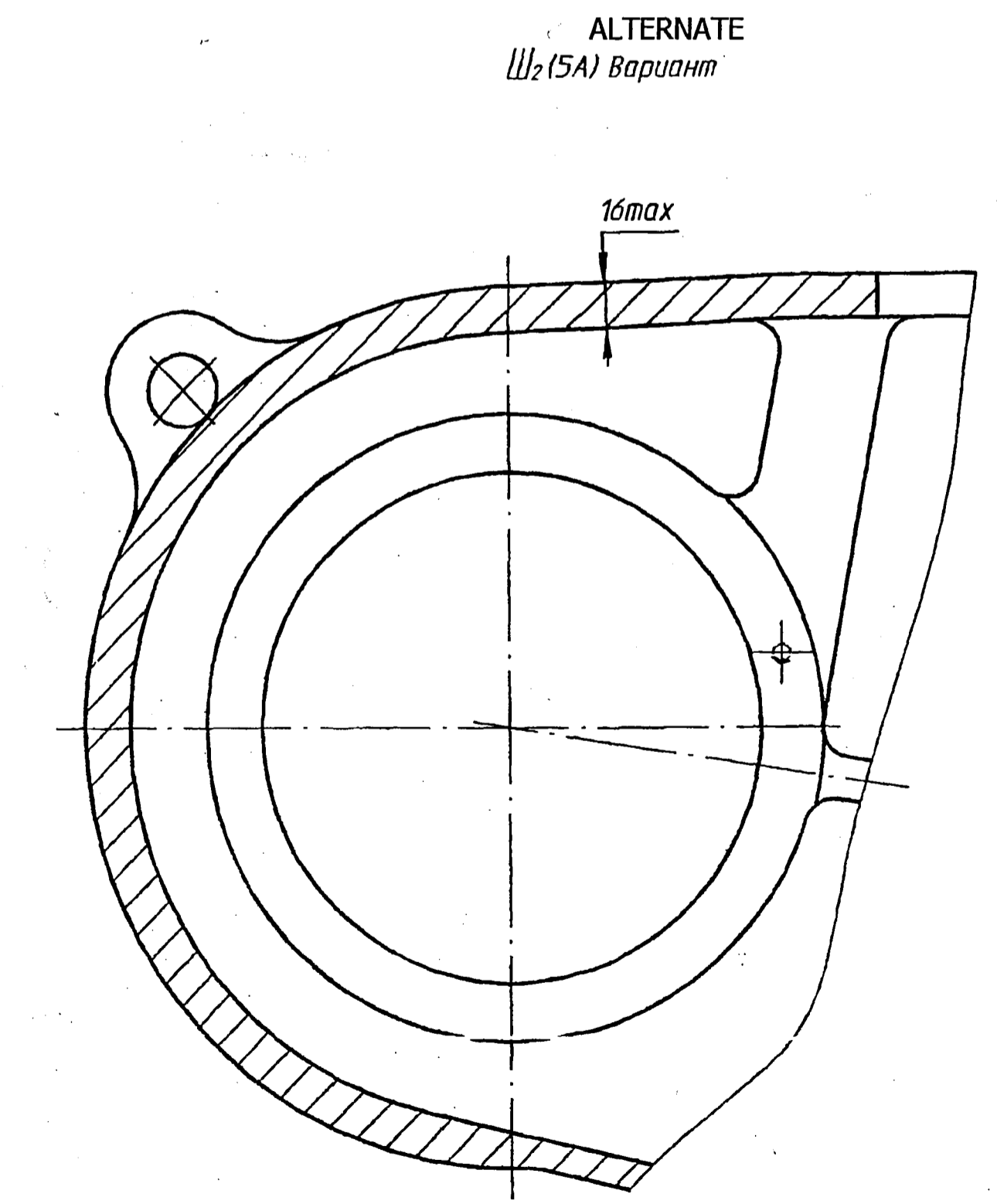
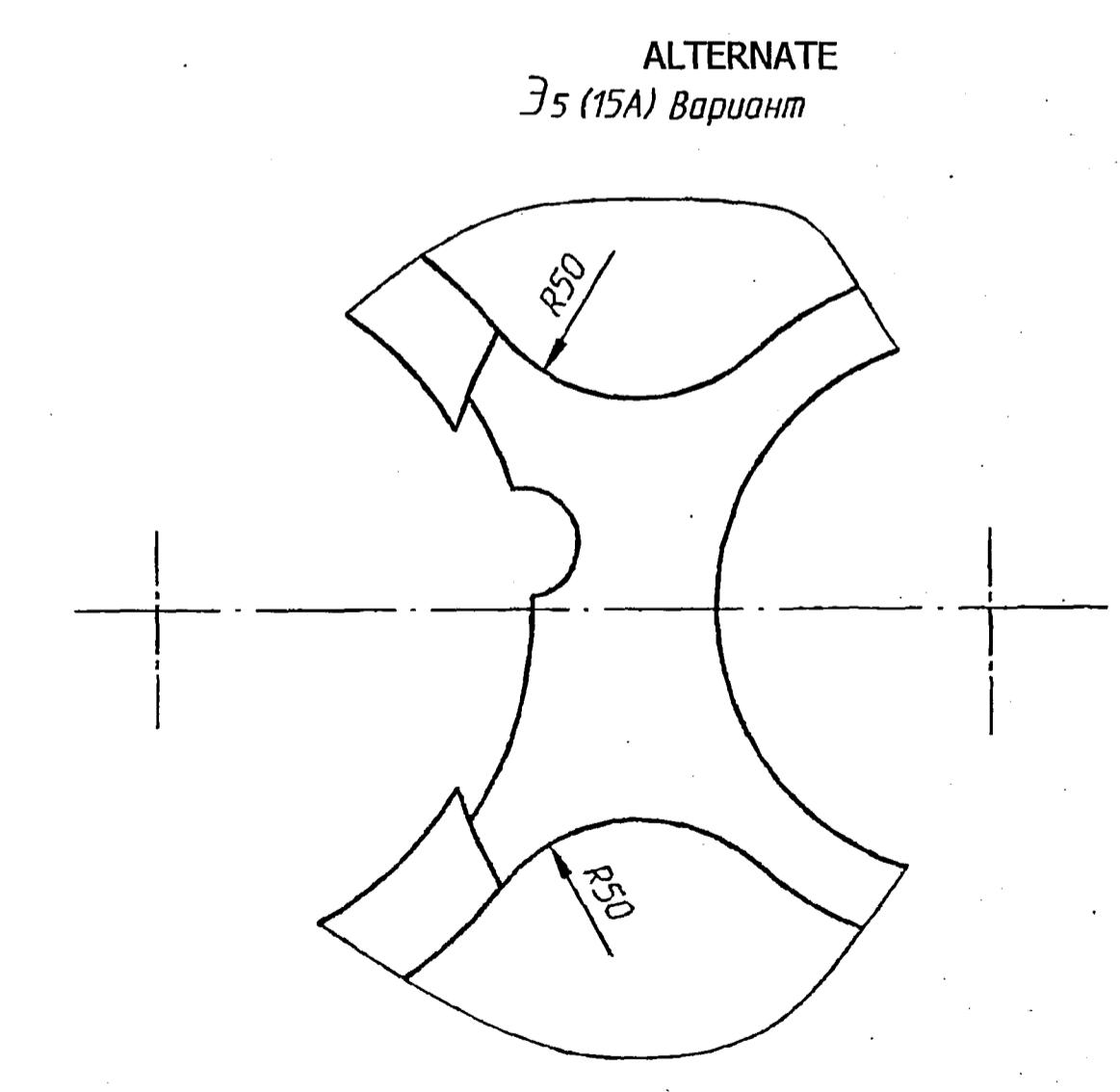
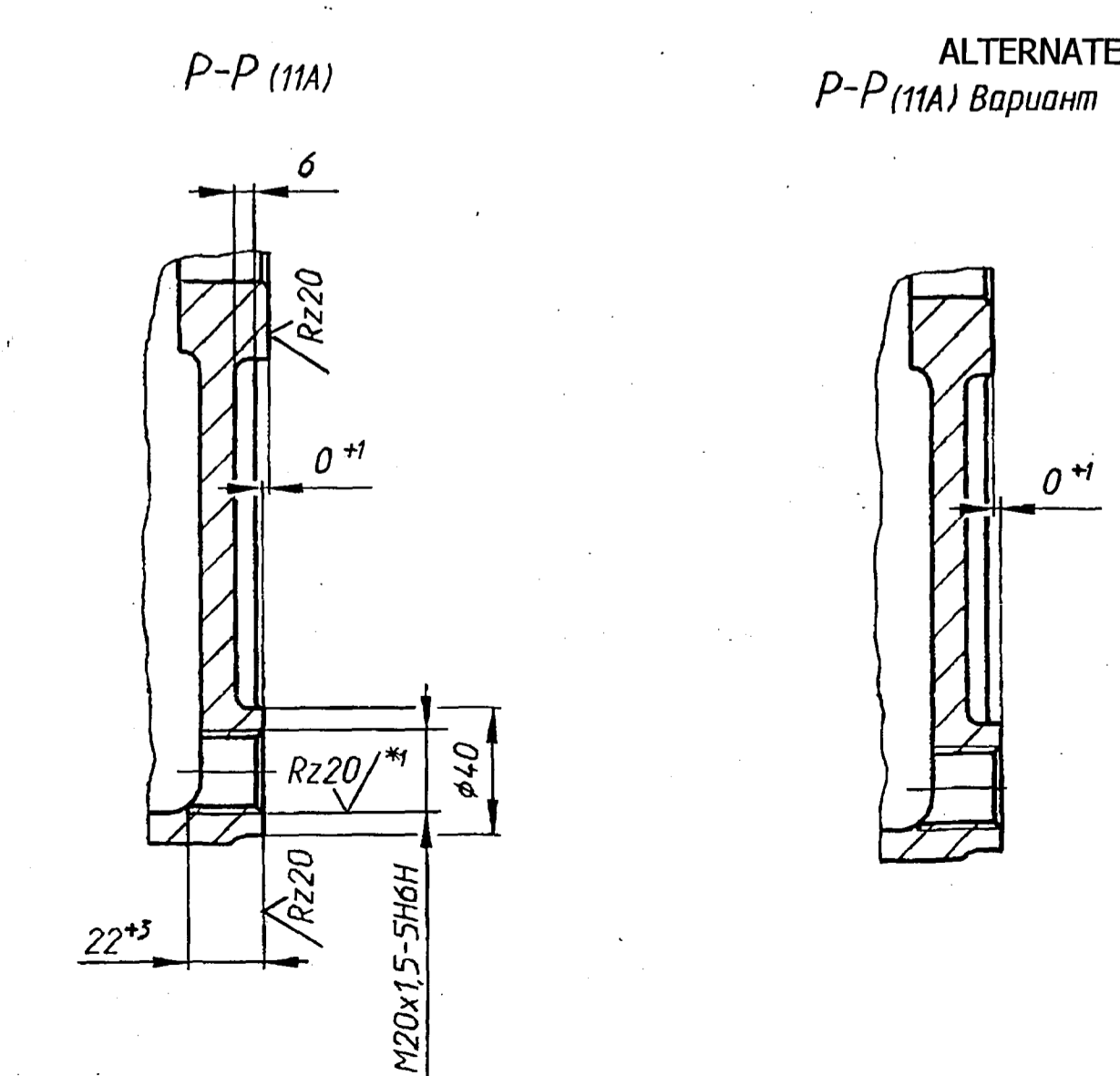
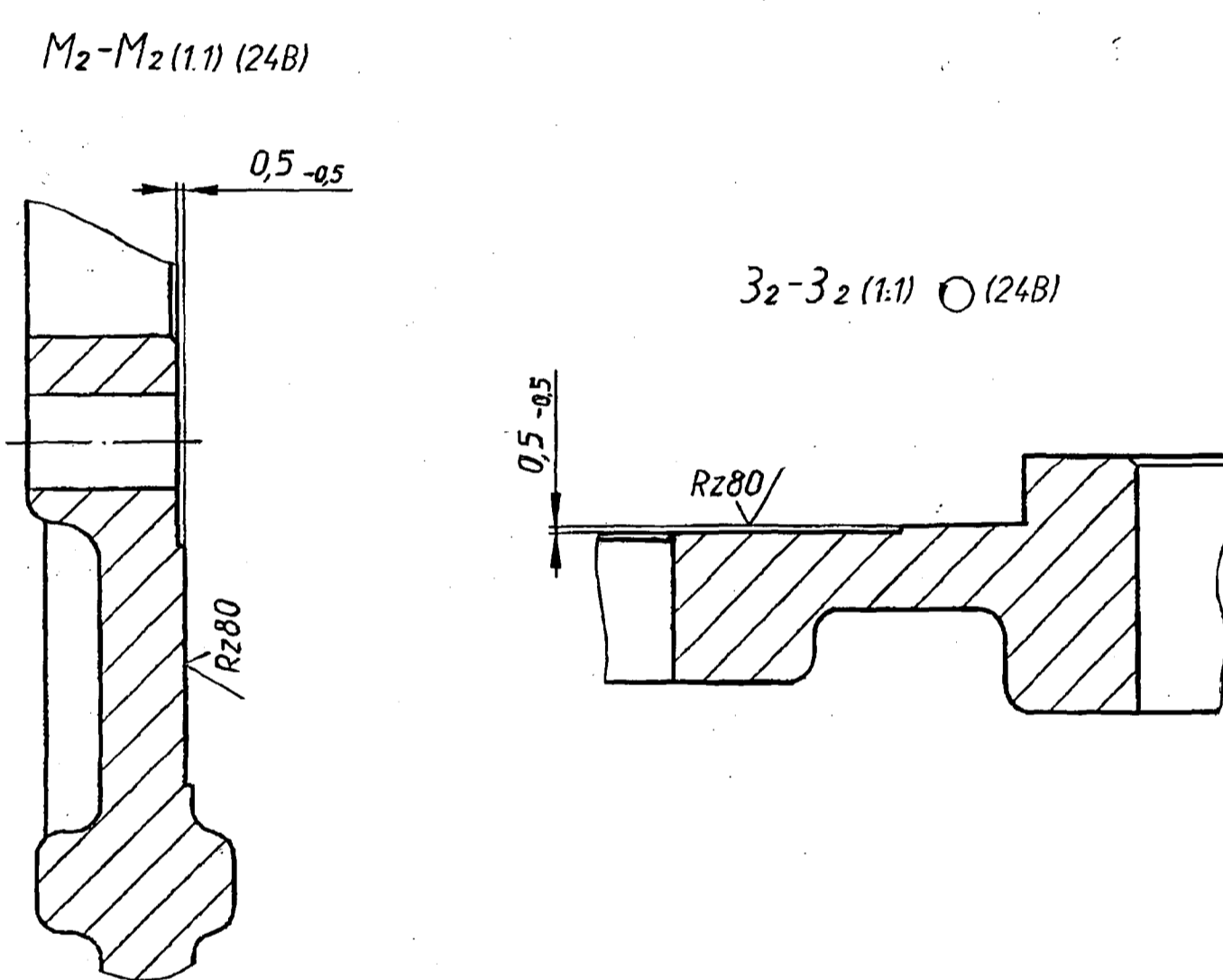
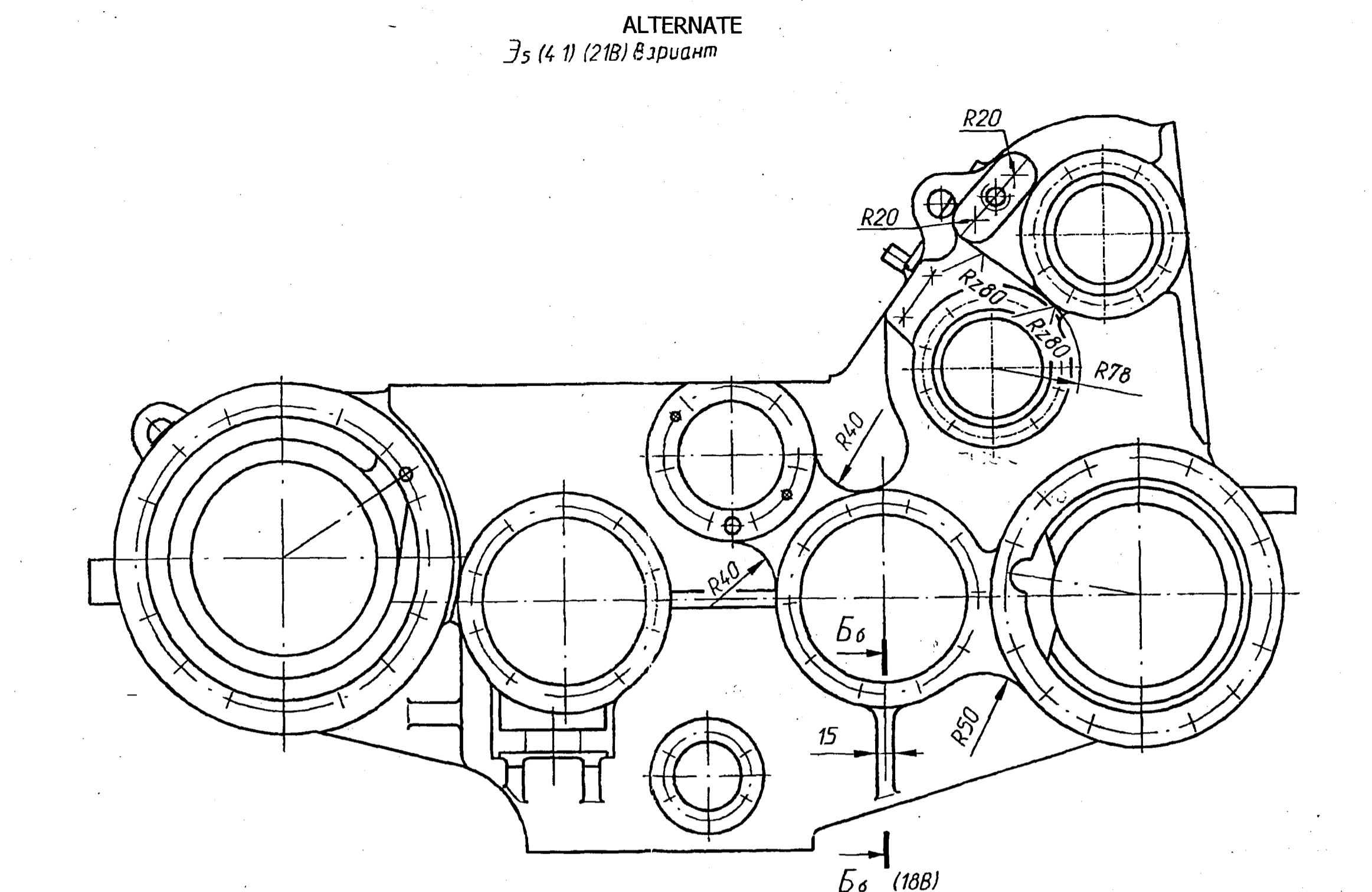
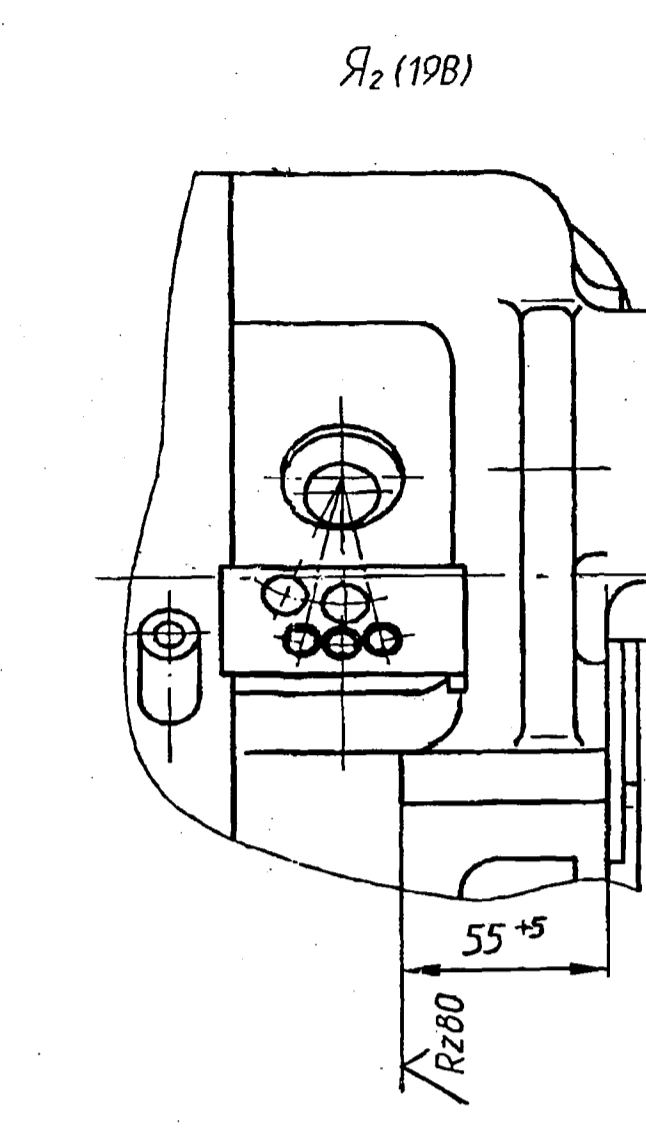
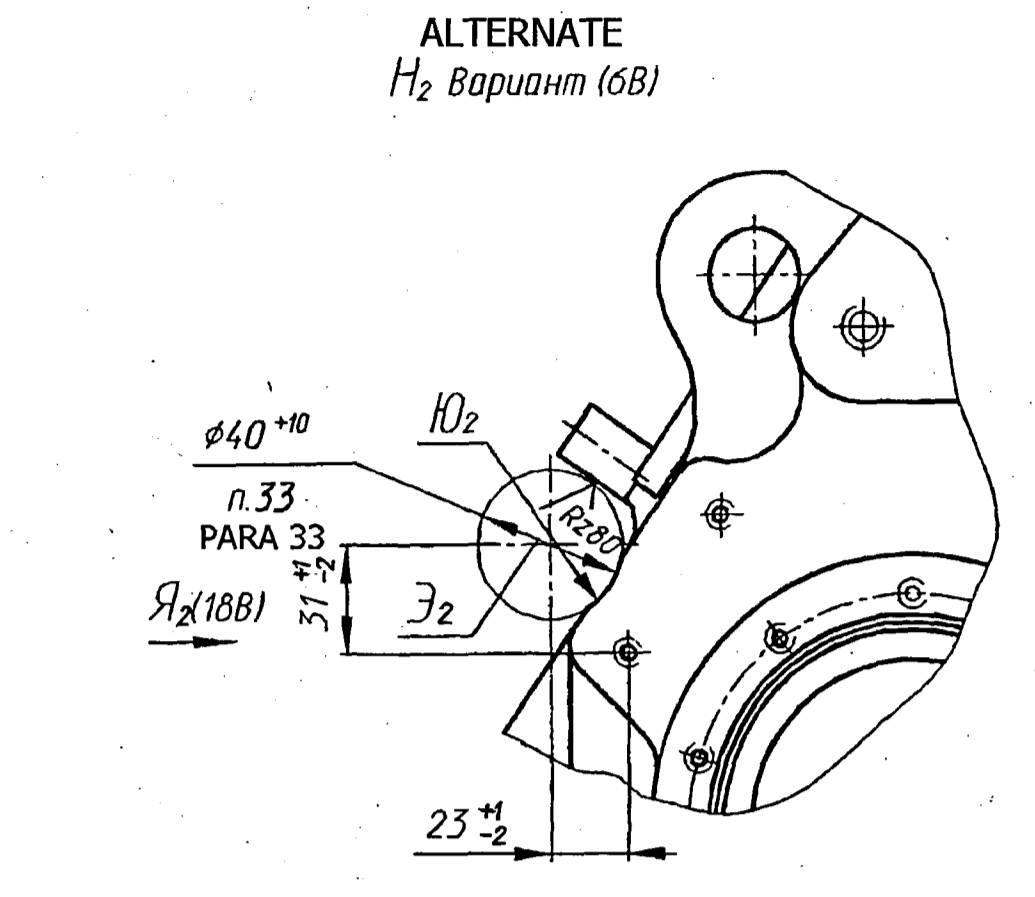
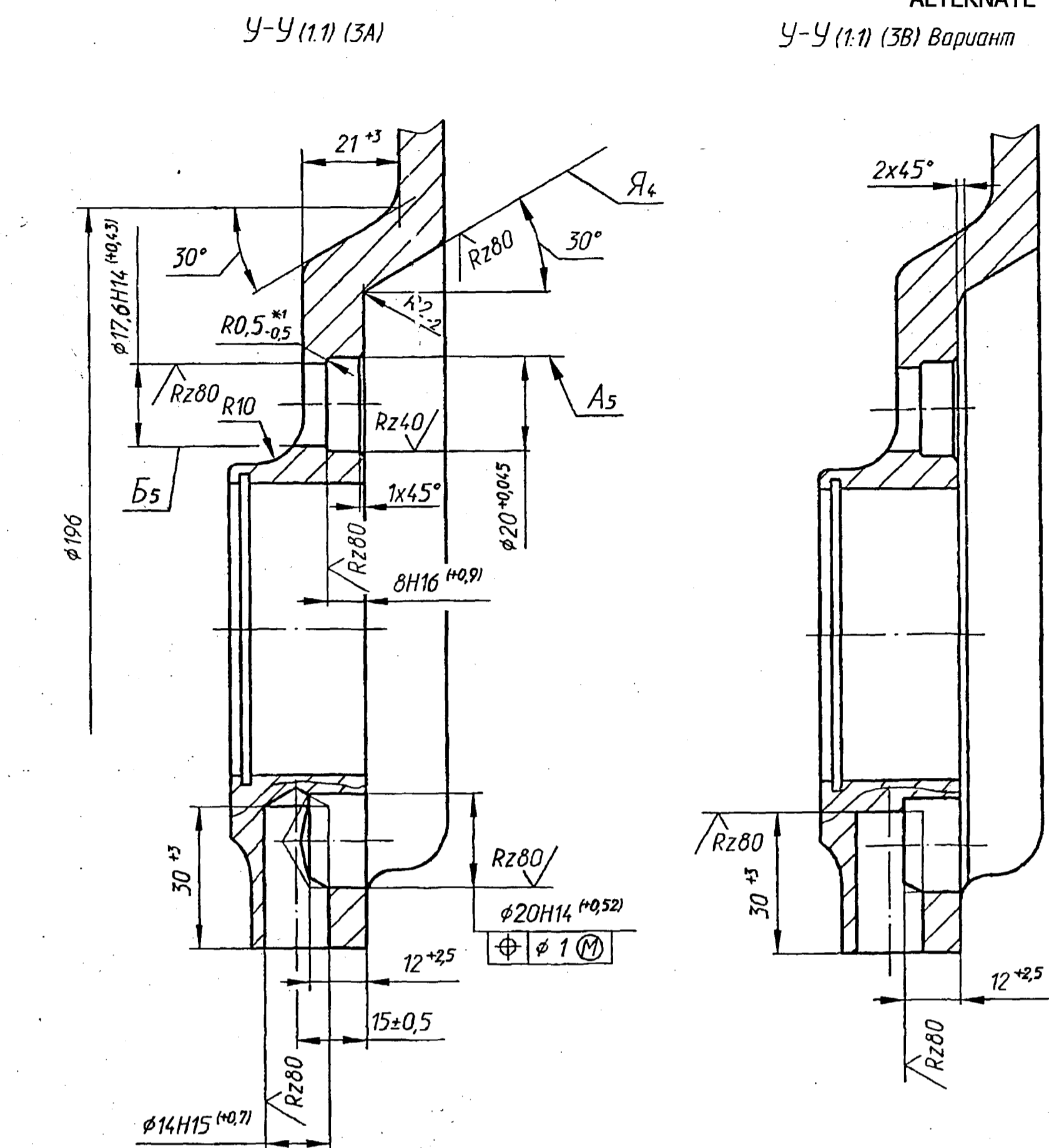
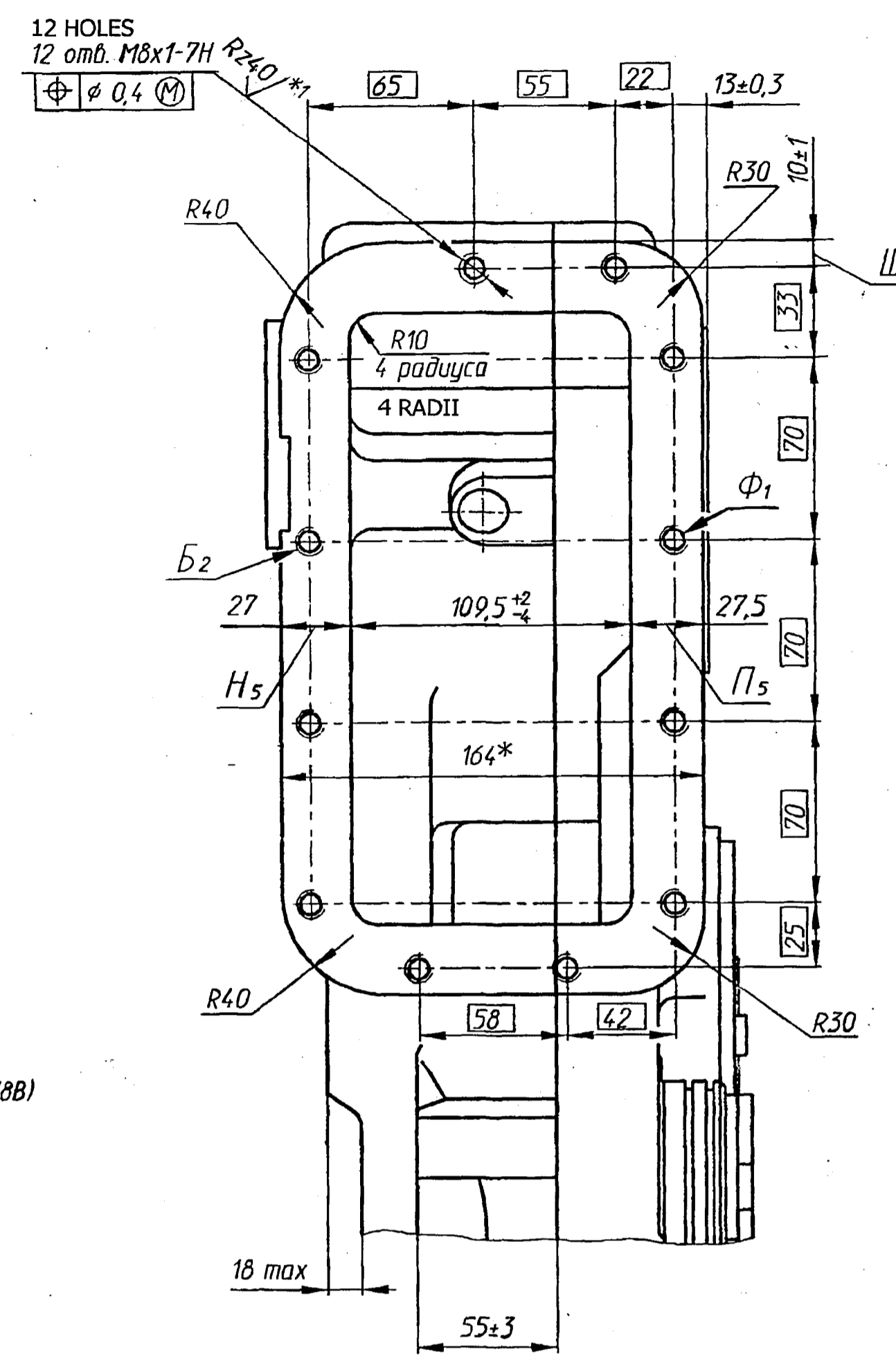
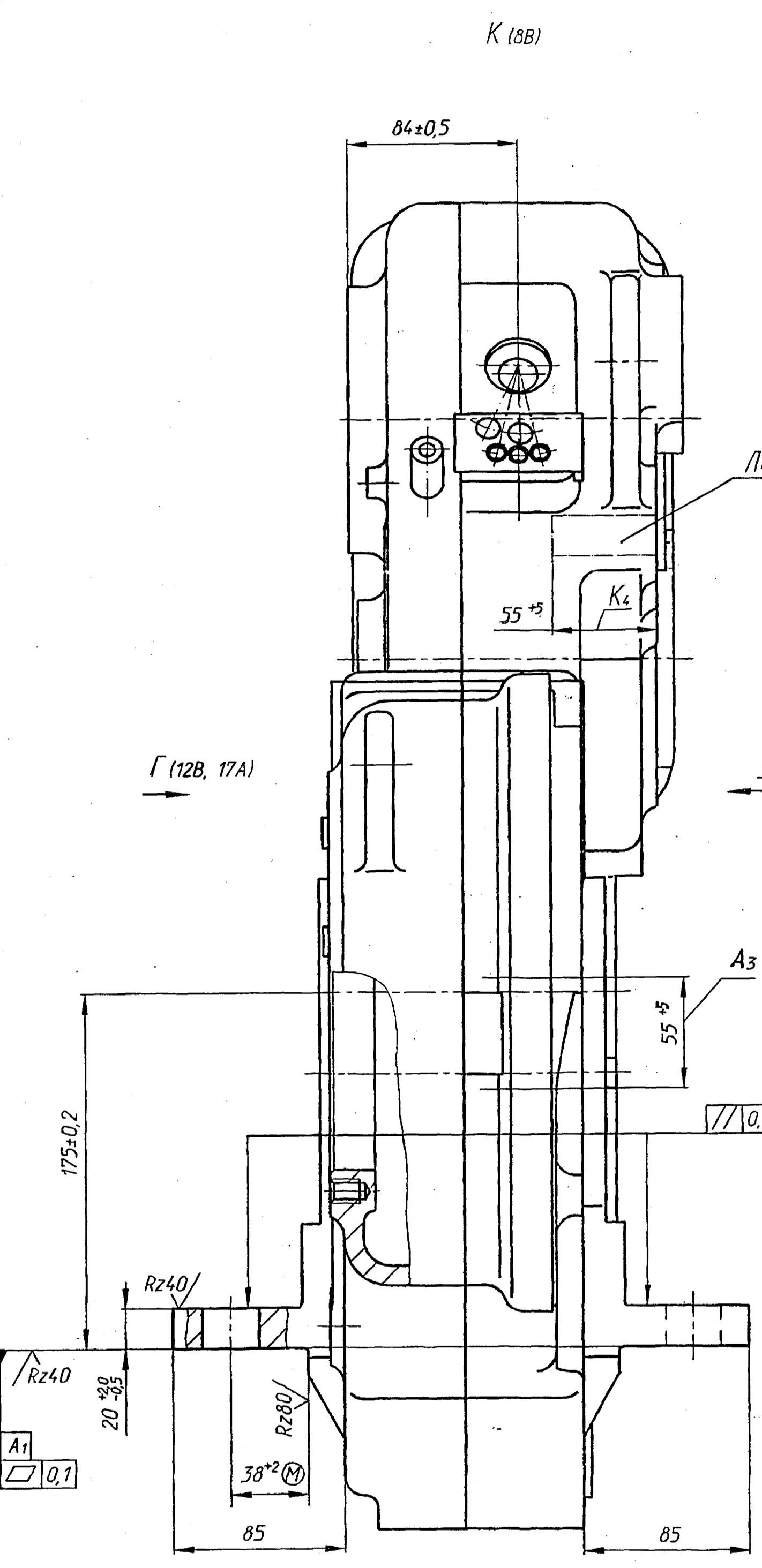
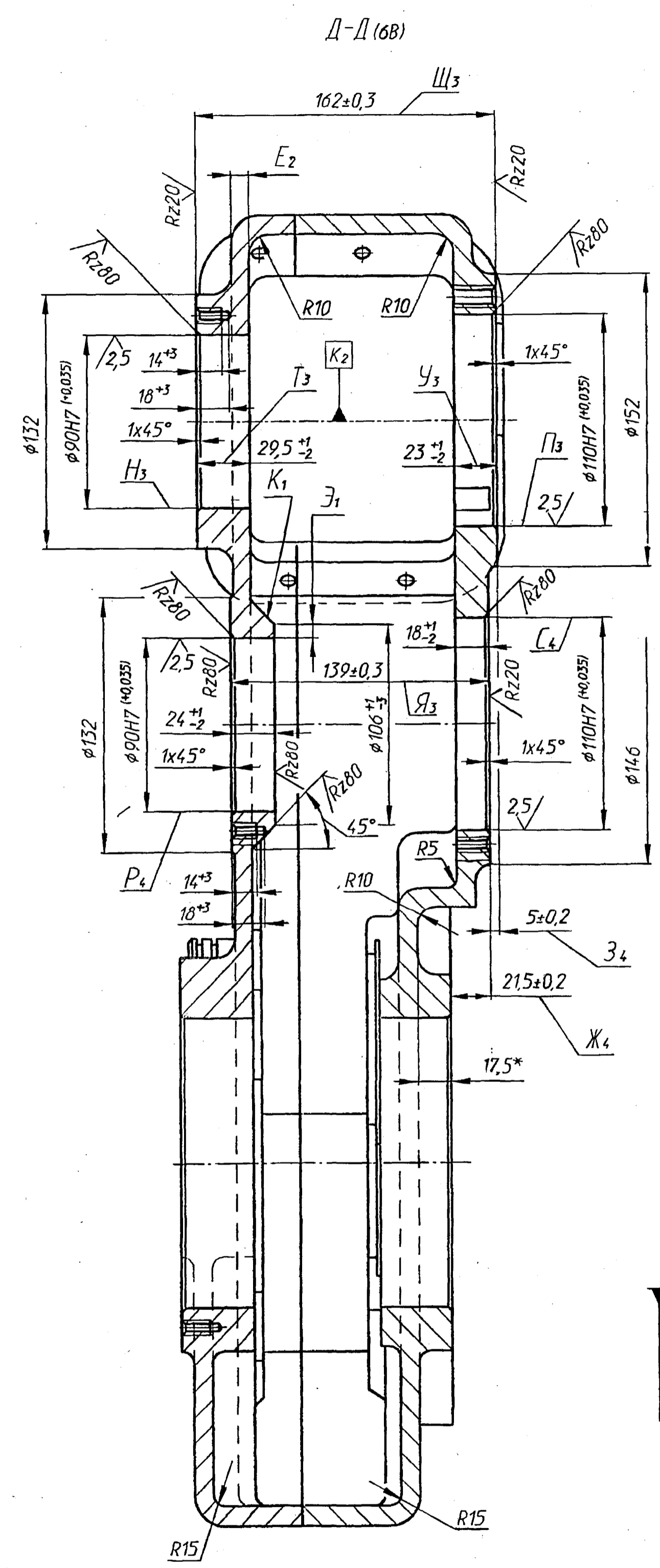
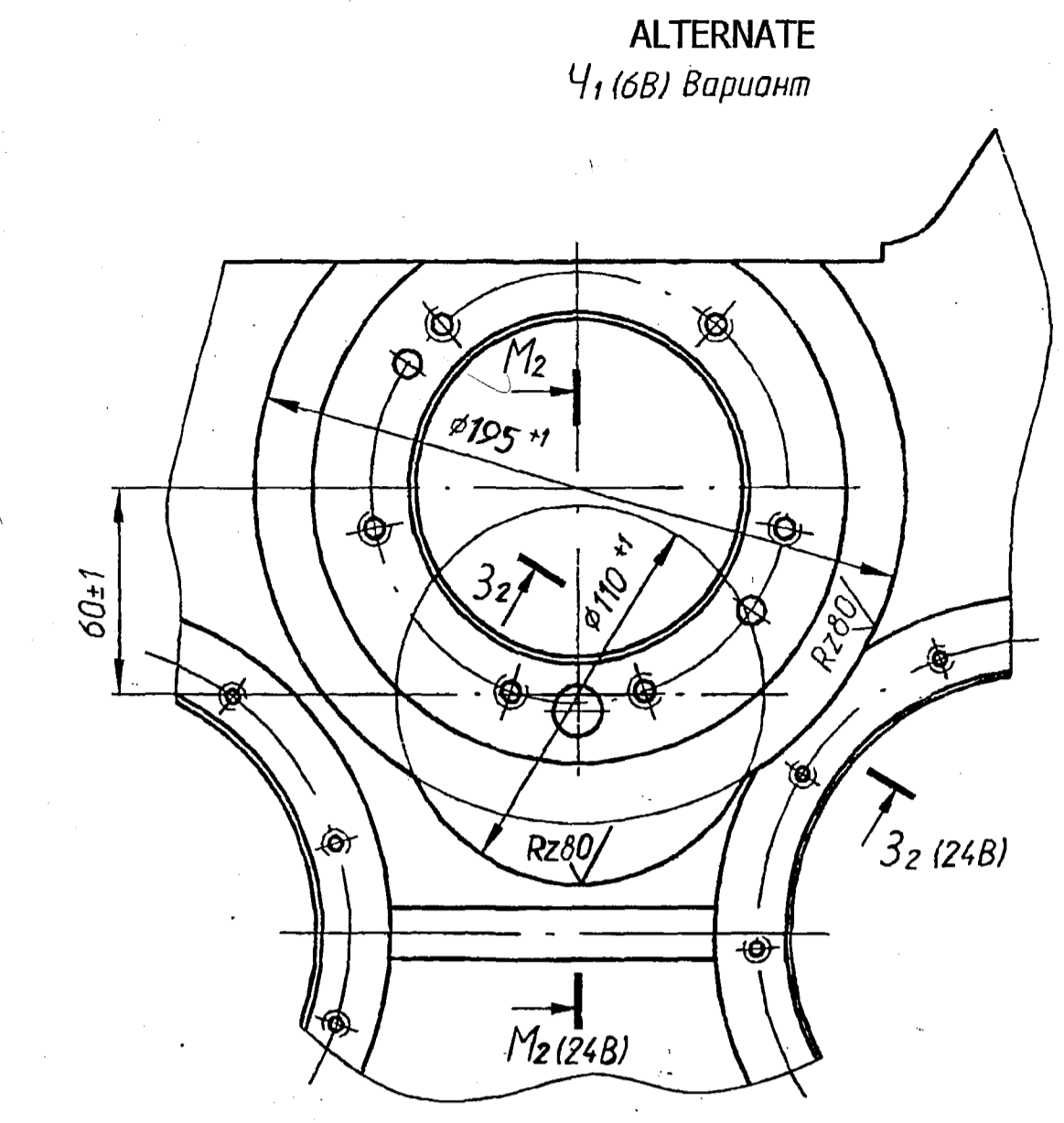
DRG. INDANISED BASED ON RUSSIAN ORIGINAL ISSUE - 1 COMMON TO T-72 & BLT

SUPPLY CODE
U-01-1-2
D90059
356
F-80
5
SIZE A2x4

DRN	175.45.001cbCb	MATERIAL	188.45.001cb-3Cb
CHD		DATE	7.9.04
APPD		SCALE	1:2
DATE	7.9.04	TOLERANCE ON DIMS	UNLESS OTHERWISE STATED IS 200-60
REF. SH. T		ALL THREADS TO CONFORM TO	
EST. WT. (kg)		OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
ISSUE	2A	ISSUE DATE	21.12.11
NATURE OF AMENDMENTS			

SHEET 2 OF 8
USED ON: 175.45.001cbCb
188.45.001cb-3Cb
PVSZ 27110099 (2A)
CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
AVADI
TITLE: TRANSMISSION GEAR UNIT HOUSING ASSY.
D S CAT NUMBER
DRAWING NUMBER
175.45.001cbCb

DRG. INDICISED BASED ON RUSSIAN ORIGINAL ISSUE-1
COMMON TO T-72 & BLT

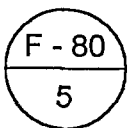


DRN	CHD	APFD	DATE	SCALE	DIMENSIONS IN mm	EST. WT. (kg)	REF. SH	1A	00.06.12	55150CGAHP/DB/BLT 7-22-10.07.11	ISSUE DATE	NATURE OF AMENDMENTS	MATERIAL	CONTROL RATE OF QUALITY ASSURANCE (HEAVY VEHICLES)	AVADI	TITLE	D.S. CAT NUMBER	175.45.001cbCb	
																	TRANSMISSION GEAR UNIT HOUSING ASSY.		

DRG INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - NIL
COMMON TO T-72 & BLT

356

SUPPLY CODE
U-01-1-2
D 90059



	4	3	2	1
	DRAWING NUMBER 175.45.001cbCb		SHEET No 4 OF 8	
F	1 Casting of component item 1 and 2 as per group 2 2 Alternate material component item 1 and 2 – steel of grades 25Л, 30Л, GOST 977 88, 20Г1ФЛ, 20ФЛ ТУ 24 05 486 -82 И 20ФТЛ ТУ 3 - 331 -85 3 Requirement for casting as per 172 ТУ4 4 Accuracy of casting 11-7-0 -13Т GOST 26645 - 85 5 Unspecified casting radius 3 ⁺¹⁷ mm 6 Draft should not exceed 1 20. 7 Casting defect may be welded 8 Positional tolerance of can of all bosses and lugs should be 8mm B diametrical expression 9 Crankcase may be manufactured as a whole without welding 10 Misalignment of contour of crankcase half should not exceed 4mm during welding 11 In this area of welding technological lugs item 5 or 7 and stop item 6 or 8 over a length corresponding to Б ₃ (16B) over А ₃ (22A) of edges for welding should be carried out only in R H half of work cast item 1 in compliance with cut y ₁ -y ₁ (9B) and the detail section Э (IB)			
E	12 Instead of welding components 5 or 7 and ^{6 or 8} cast item as an integrated part (as a whole) of work case, in this case casting radii of the change (transition) should not exceed 25mm 13 Welded components item 5 or 7 and 6 or 8 may be adjusted to suit the place 14 Tolerance of flatness of crank case walls should be 3mm 15 Pair of holes З ₃ -И ₃ (4B), К ₃ (3B), Л ₃ (3B), В ₃ -Г ₂ (2B), Е ₃ -И ₂ (12A), Д ₃ -Г ₃ (16A), Н ₃ -П ₃ (23B), Р ₄ -С ₄ (23B) are to be machined by one setting 16 Tolerance of parallelism of general axis of each pair of holes should be Ø0 05mm over a length of 100mm 17 Tolerance of parallelism of general plane А ₁ (22A) of lug relative to the axis of hole Г ₂ and В ₃ (2B) 0 05mm over a length of 100mm 18 Tolerance of run-out of all outer faces, except face А ₂ (2B), relative to its holes should be 0 05mm, in this case inspection of run-out of faces of holes Г ₃ and Д ₃ (16A) should be carried out relative to their common axis 19 Machining as per dimensions on brackets are to be carried out along with components 175 47 027 components should be used combined			
D				
C				
B				

		CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
A	06.05.12	55150/CQA(HV)/DB/BLT T-72 Dt.19.07.11	
ISSUE	DATE	NATURE OF AMENDMENTS	
CHD <i>C. Gangaiah</i>		USED ON -	
APPD <i>Chanchal</i>		PV572.0711.0092 (A)	
DATE 7.9.04		D S CAT NUMBER	DRAWING NUMBER 175.45.001cbCb
SIZE A4			

DRG. INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - NIL.

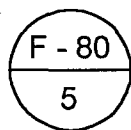
COMMON TO T-72 & BLT

356

SUPPLY CODE

U-01-1-2

D 90059



DRAWING NUMBER

175.45.001cbCb

SHEET No. 5 OF 8

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- F
20. Deviation from planeness and perpendicularity of surface Γ_1 (13A) are to be checked by gauge, centered on surface jfa (12A), in this case feeler gauge 0.05mm should not enter into falling on of plane $0^{+0.5}$ mm is allowed from the centre of the boring \mathcal{K}_3 to a diameter not exceeding 55mm and beyond diameter 150mm falling in and projection of plane $0^{+0.5}$ mm is allowed with surface finishing $R_z = 80\text{MKM}$.
- E
21. In $1/3^{\text{rd}}$ of circumference increase of dimension of hole 3_3 (5B) up to dia 255.085mm, \mathcal{I}_3 (4B) $\text{Do } \varnothing 175,08\text{mm}$, Γ_3 (16A) $\text{Do } \varnothing 98,055\text{mm}$, Δ_3 (16A) $\text{Do } \varnothing 100,055\text{mm}$, C4 (23B) И Π_3 (23B) $\text{Do } \varnothing 100,055\text{mm}$.
- D
22. When machining surface P_3 (3B) over a length of C_3 (2B) allowed to machine the outer walls of crankcase by radius 140mm. In this case wall thickness \mathcal{U}_3 (3B) should not be less than 7mm. In this case external (outer) walls of crankcase at dimension P_3 shoulder not more than 0.5mm, placed within the limits of tolerance for dimensions C_3 are allowed.
- C
23. For ensuring dimensions T_3 and y_3 (23B) machining of inner walls is allowed. Corresponding to radius 86^{+2} mm. Over a length of 57^{+2} mm from the outer faces of holes M_3 and Π_3 (23B), in this case thickness of wall E_2 (23B) should not be less than 6mm.
- B
24. Machining of inner faces with surface finishing $R_z = 80\text{MKM}$ with limit direction $\pm 2\text{mm}$ is allowed for the following.
- Along dimesions \mathcal{K}_5 (7A), 3_5 (7A), \mathcal{I}_5 (3A), K_5 (4A), \mathcal{L}_5 (7A), M_5 (2B), H_5 (21B), Π_5 (21B), P_5 (2A), C_5 (15A), T_5 (15A), y_5 (15A), Φ_5 (15A), \mathcal{U}_5 (15A);
 - Inner faces of all seats with tolerance, specified in drawing
25. When machining face B_6 (4B) surface finishing should be $R_z = 20\text{MKM}$ and tolerance of run-out by 0.05mm should be maintained up to minimum $\varnothing 225\text{mm}$. For other surface of face surface finishing $R_z = 80\text{MKM}$ and tolerance of run-out $= 0.1\text{mm}$ are allowed.
26. Machining at face of bore Φ_3 (9A) is allowed along straight line as per dimensions $(38 \pm 5)\text{mm}$
27. While machining outer face of bore \mathcal{U}_5 (7B), \mathcal{W}_5 (6A), and \mathcal{X}_5 (5A), butting to seats K_3 (3B), \mathcal{L}_3 (3B) and B_3 (2A), shoulder not exceeding 0.3mm is allowed.
28. Dimensions \mathcal{X}_3 (21B) should be maintained in one of the half of crankcase in the other half of the crankcase requireme-nt of part 49 is to be ensured.

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
AVADI

A	06.05.12	55150/CQA(HV)/DB/BLT T-72 Dt.19.07.11
ISSUE	DATE	NATURE OF AMENDMENTS

CHD <i>S. Ganapathar</i>	USED ON :-
APPD <i>Chanchal</i>	PV572.0711.0092 (A)

DATE 7.9.04

D S CAT NUMBER

DRAWING NUMBER

175.45.001cbCb

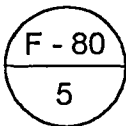
SIZE A4

**TRANSMISSION GEAR UNIT
HOUSING ASSY.**

DRG INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - NIL
COMMON TO T-72 & BLT

356

SUPPLY CODE
U-01-1-2
D 90059



	4	3	2	1
	DRAWING NUMBER 175.45.001cbCb		SHEET No 6 OF 8	
F	29 Following linear dimension are allowed with increased tolerances 141,5 ± 0,7 instead of B ₄ (2B), 129 ^{+0,7} _{-0,2} instead of IO ₃ (16A), 113 ^{+0,7} _{-0,2} instead of A ₄ (5B), 139 ^{+0,7} _{-0,3} instead of Я ₃ (23B), 108 ± 0 7 instead of Э ₃ (13A), 146 ^{+0,7} _{-0,2} instead of Б ₄ (4B,3B), 162 ^{+0,7} _{-0,3} instead of Ш ₃ (23B) In this case tolerance of dimension И ₄ (4B), Д ₄ (3B), Ж ₄ (23A), З ₄ (23B), Г ₄ (16A) and E ₄ (13A) (after additional machining of hole faces) may go deep and the limits of tolerances up to 0 5 mm In this case requirement of para 15 И 18 are to be maintained			
E	30 In hole И ₂ (13A) over a length of max 15 mm from face И ₁ (13A) dimension Ø 62H14 ^(+0 74) with surface finishing R _Z =80 MKM			
	31 When machining the face hole Г ₃ (16A), surface finishing R _Z =20MKM and tolerance of run-out by 0 05mm are to be maintained up to dimensions minimum Ø160mm			
	32 On surface Л ₄ (22B), dimension T ₂ (6B) is to be ensured by machining, limited by dimensions C ₂ ×K ₄ (6B, 22B)			
	33 Surface IO ₂ (19B), M ₄ (7B), П ₄ (3A), Ч ₃ (15B) are to be checked by tool correspondingly as per dimensions Э ₂ (19B), Л ₁ (7B), H ₄ (3A), Л ₃ (16B)			
D	34 Surface Л ₄ (14B) is to be checked by tool as per dimension Φ ₄ (14B) before ensuring dimension Ч ₄ (4B)			
	35 For ensuring dimension T ₄ (16B) machining of face Y ₄ (16B) of by item 5 or 7 is allowed			
	36 Surface П ₂ (14A) to be checked by tool as per dimension P ₂ (14A) before testing that crankcase for air-lightness			
	37 When machining surface Ш ₄ (2A) of crankcase is to be checked by tool along radius 97 ⁺¹ mm, and surface Ш ₄ (4A) along radius 130 ⁺¹ mm			
C	38 Tolerance of perpendicularity of axis of threaded holes, except hole Э ₄ (14A) relative to that corresponding planes Ø0,6 mm should be minimum 50 m m over the length Tolerance of perendicularity of axis of threaded holes Э ₄ Ø1 2 mm is allowed over a length of not less than 50 mm			
	39 Positional tolerance of axis of all threaded holes is allowed Ø0 6 mm (m m c)			
	40 In threaded holes, twisting off threads in aggregate up to two turns is allowed In this case for first fine turns twisting off threads are not allowed			
B	41 Opening of threaded hole C ₁ (15A) is threaded hole T ₁ (12A) is allowed			

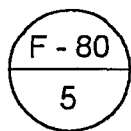
			CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
A	06.05.12	55150/CQA(HV)/DB/BLT T-72 Dt.19.07.11	TITLE	
ISSUE	DATE	NATURE OF AMENDMENTS	TRANSMISSION GEAR UNIT HOUSING ASSY.	
CHD <i>Refanquolan</i>		USED ON -		
APPD <i>Chanchal</i>		PV572.0711.0092 (A)		
DATE 7 9.04'			D S CAT NUMBER	DRAWING NUMBER 175.45.001cbCb
SIZE A4				

DRG. INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - NIL.
COMMON TO T-72 & BLT

356

SUPPLY CODE

U-01-1-2
D 90059



DRAWING NUMBER

175.45.001cbCb

SHEET No. 7 OF 8

- | | | | |
|---|---|---|---|
| 4 | 3 | 2 | 1 |
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- F
- 42. Opening of through threaded holes M_3 (12A), positioned on surface Γ_1 (13A) is allowed.
 - 43. Opening of threaded hole Ю_4 (12B) on taper surface K_1 (23B) is allowed.
 - 44. Opening of hole Б_2 (21B) on surface Π_3 (23B).
- E
- 45. On taper surface K_1 (23B), black spots are allowed after machining. In this case thickness of connecting rod Э_1 (23B) should not be less than 5mm.
 - 46. On taper surface Я_4 (20B), abutting (adjacent) to face Γ_1 (13A), should not be exceeding 1mm is allowed.
 - 47. Connecting rod Я_1 (9A) should not be less than 2mm.
 - 48. Web Л_1 (11B) should not be less than 1.9mm.
 - 49. Web between threaded holes and outer contour of access holes should not be less than 3.5mm.
 - 50. Hole A_5 (20B) and Б_5 (20B) should be checked for free passing through (entry) of stepped roller centred along hole A_5 and having inspection diameter 17.2mm.
- D
- 51. Opening of hole Б_5 (1B) is allowed in duct Γ_5 (1B).
 - 52. Opening of Φ_1 (21B) is allowed in hole γ_1 (13B).
 - 53. Opening of holes Ш_1 (2B) on taper surface of sector Ш_1 (2B) is allowed.
 - 54. Instead of checking the tolerance of run - out of faces of holes (para 16), tolerance of perpendicularity with in the limits of specified value of direction may be checked. (m.m.c)
- C
- 55. Instead of checking the tolerance of perpendicularity of face Д_2 (4B), tolerance of perpendicularity of face Д_2 (4B) relative to common axis Л_2 (4B) within the limits of specified value of deviation (m.m.c) may be checked.
 - 56. Presence of technological hole γ_2 (5A) in components item 5 or 7 is allowed.
 - 57. On surface Д_5 (7B) technological hole $\text{Ø}6^{+2}$ mm is allowed with not more than 10mm depth.
 - 58. Opening of holes Ø_2 (5B) in surface Л_2 (4B) is not allowed.
- B
- 59. *Dimension for reference.
 - 60. *¹ Dimension and surface finishing are to be ensured by tool.

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES)
AVADI

A 06.05.12 55150/CQA(HV)/DB/BLT T-72 Dt.19.07.11

TITLE :-

ISSUE DATE NATURE OF AMENDMENTS

**TRANSMISSION GEAR UNIT
HOUSING ASSY.**

CHD USED ON :-

APPD PV572.0711.0092 (A)

DATE 7.9.04

D S CAT NUMBER

DRAWING NUMBER

175.45.001cbCb

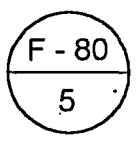
SIZE A4

COMMON TO T-72 & BLT
DRG. INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - NIL.

356

SUPPLY CODE
U-01-1-2

D90059



DRAWING NUMBER
175.45.001cbCb

SHEET No. 8 OF 8

61. *2 Machining as per specified dimensions are to be carried out along with assembly 172.45.031cb-1Cb.
62. Crankcase to be tested for air-tightness by filling kerosine. Leakage of kerosine is not allowed. Checking of air tightness is allowed to be carried out with compressed air, with subsequent dipping (increase) it to the water or with water pressure (0.3±0.1) Mpa [(3±1)kgf/cm²] for 10⁺⁵ minutes. In this case leakage of air or leakage of water are not allowed.
63. Ducts are to be tested for air - tightness by water or with air - pressure (0.5±0.1) Mpa [(5±1) kgf/cm²] for 3⁺³ minutes. In this case leakage of water or seepage of air are not allowed.
64. Coating: chemical phosphating, oxidation and oil finishing. Full or partial absence of coating of holes Г₂ (2B), И₂(13A), В₃(2B), Г₃ (16A), Д₃ (16A), Е₃(12A), З₃ (4B), И₃ (4B), К₃(3B), Л₃(3B), Н₃(23B), П₃(23B), Р₄(23B), С₄(23B), as well as partial absence of coating in inner surfaces of crank case is allowed.
65. Other requirement as per 520. Ty.1.
66. On the un-machined surfaces the following casting defects are allowed:
Without rectification:
- casting defects with area 0^{+0.6} cm² and depth not more than 1/4 thickness of wall in number 15 per part.
With rectification:
- blow holes with area 0⁺⁸ cm² and depth not more than 1/2 of wall thickness in numbers not more than six per surface.
67. On surfaces to be machined К₃, Л₃, И₃ over a length not less than 10mm (error of measurement ±0.1mm) from the outer face (sheet 1, A-A), ON surface Ю₇ around the oval hole (sheet 2, Ч₇), on face У₇ (sheet 3, P-P) and conical surface Ф₈ (sheet 2, T-T) blow holes are not allowed.
68. on the surfaces to be machined the following casting defects are allowed:
without rectification:
- Blow holes 0^{+0.4} cm² and depth 0⁺³ mm, not more than two numbers for surface and exiting on to the edge - one number.
- Blow holes 0^{+0.8} cm² and depth 0⁺⁶ mm in all the smooth holes, except holes (5, У₈ U₈ В₅ (sheet 1, E-E), (sheet 2, П-П)
- In hole У₇ blow holes with total area 0^{+1.5} cm² and depth 0⁺⁵ mm, on surface У₈ (Sht 2, T-T) blow holes - are not allowed.
with rectification:
- blow holes in depth not more than 1/2 of wall thickness, area 0⁺⁵ cm² in numbers not more than five for - surface
69. Cracks in depth upto 1/2 thickness of body, length not more than 100mm each, with total length not more than 250mm, error of measurement ±1mm, is allowed for rectification.

1A	06.5.12	55150/COA(HV)/DB/BLT T-72 DI. 19.07.11
1	21-12-11	NOTN. No. 188Л-77-08
ISSUE	DATE	NATURE OF AMENDMENTS
CHD <i>C. Ganigadon</i>		USED ON :- PV572.0711.0092 (1A)
APPD <i>Chanchal</i>		
DATE 7.9.04		
SIZE A4		

CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
TITLE :- TRANSMISSION GEAR UNIT HOUSING ASSY.	
D S CAT NUMBER	DRAWING NUMBER 175.45.001cbCb