

Изм./лист	№ докум.	Подпись	Дата

1-ТТ182304СБ

2

Основные данные субпомпы:

1. Тип турбины
2. Диаметр рабочего колеса
3. Напоры:
4. Мощность турбины
5. Частота вращения номинальная
6. Частота вращения разгонная
7. Расход при Нр и Нн
8. Количество аспирации на ГЭС

Нн = 187,5 м/мин
Нр = 70 МВт
Нмакс = 75,6 МВт
Нмакс = 67 м
Нр = 59 м
Нмин = 57 м
Д_к = 4,1 м

Q = 132,5 м³/с
np = 390 об/мин

φ560; Z=8; M24*

M210x4*

21

4

3

28

38

8

66

56

125

φ40

g6

h_в

g6

B

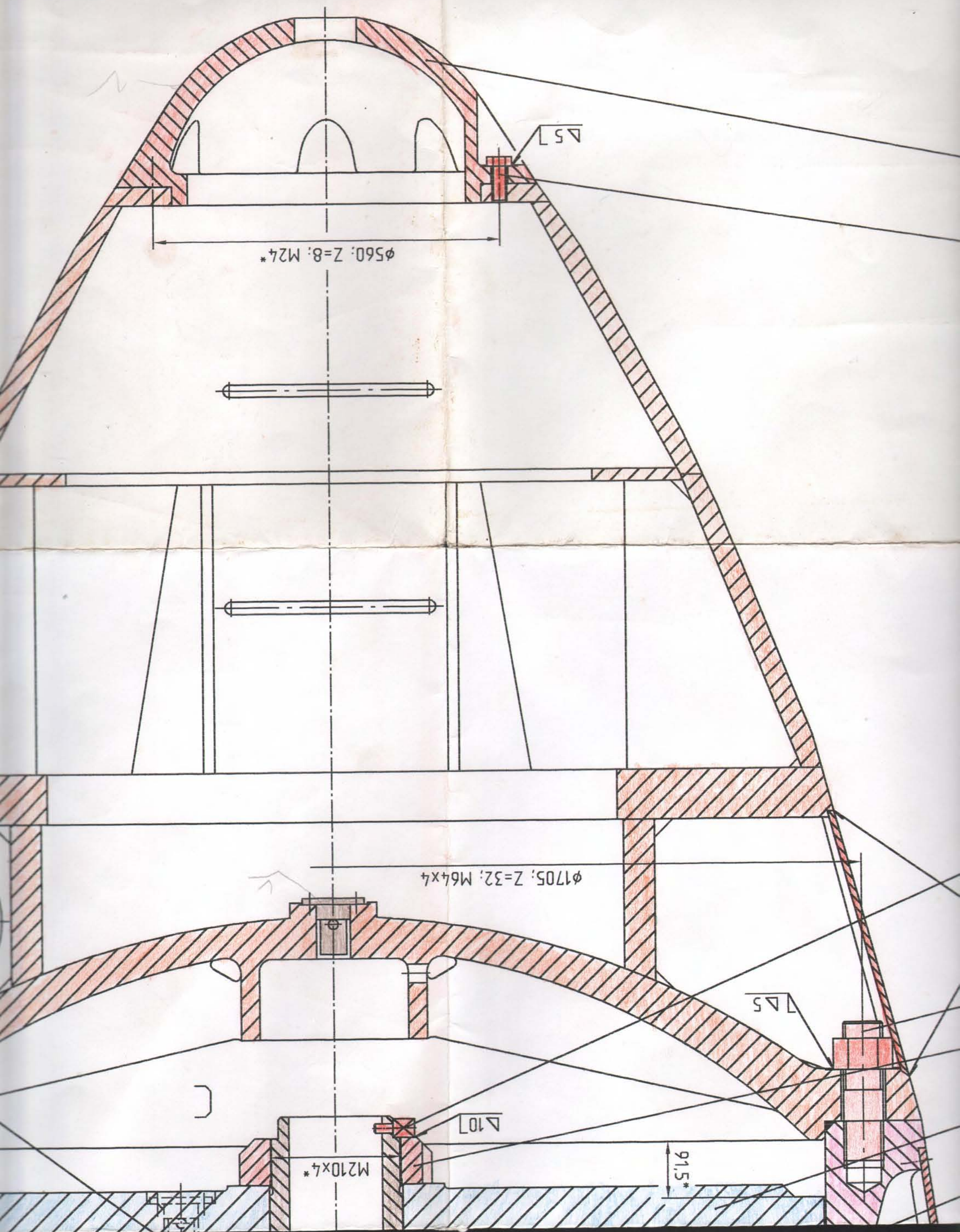
31

57

57

10

$$\phi 1705; Z=32; M6$$



Вал турбины
черт. 1-ГТ64071

$\phi 110 \frac{H7(+0,035)}{g6(-0,012/-0,034)}$

У
п.2.10

24

59

63

66

K

3

47

30

25

26

46

12

M

$\Delta 5$
п.2.5

$\Delta 5$

Ж

23

43

44

58

17

31

15

41

60

40

61

18

Б

H

п.1.9

$\phi 40 \frac{H9^*}{h6}$

$\phi 420 \frac{H7^*}{f7}$

M340x6*

$\phi 190 \frac{H7^*}{f7}$

$\Delta 10$

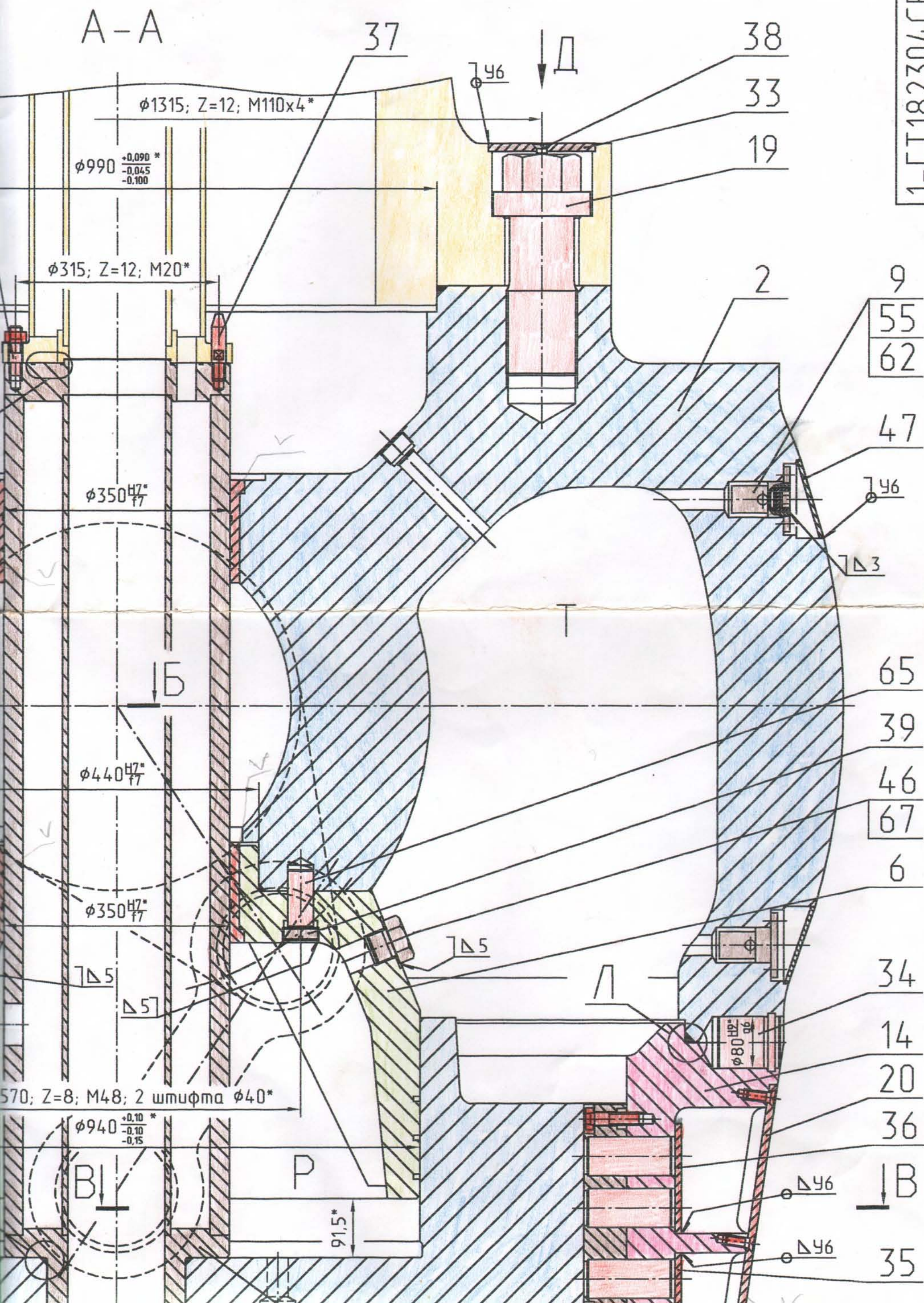
И

$\Delta 5$

$\phi 1880; Z=32; M64 \times 4$

$\phi 1580 \frac{+0,125^*}{-0,300/-0,400}$

И



турбины
-ГТ64071

H7(+0.035)
g6(-0.012
-0.034)

У
п.2.10

Δ57

24

59

63

66

A-A

37

φ1315; Z=12; M110x4*

φ990^{+0.090*}
<sub>-0.045
-0.100</sub>

φ315; Z=12; M20*

K

3

φ350^{H7/f7}*

φ40^{H9/h6}*

M340x6*

φ190^{H7/f7}*

Б

φ440^{H7/f7}*

φ350^{H7/f7}*

Δ10

И

Δ5

Δ57

Δ5

φ570; Z=8; M48; 2 штифта φ40*

φ940^{+0.10*}
<sub>-0.10
-0.15</sub>

φ1880; Z=32; M64x4

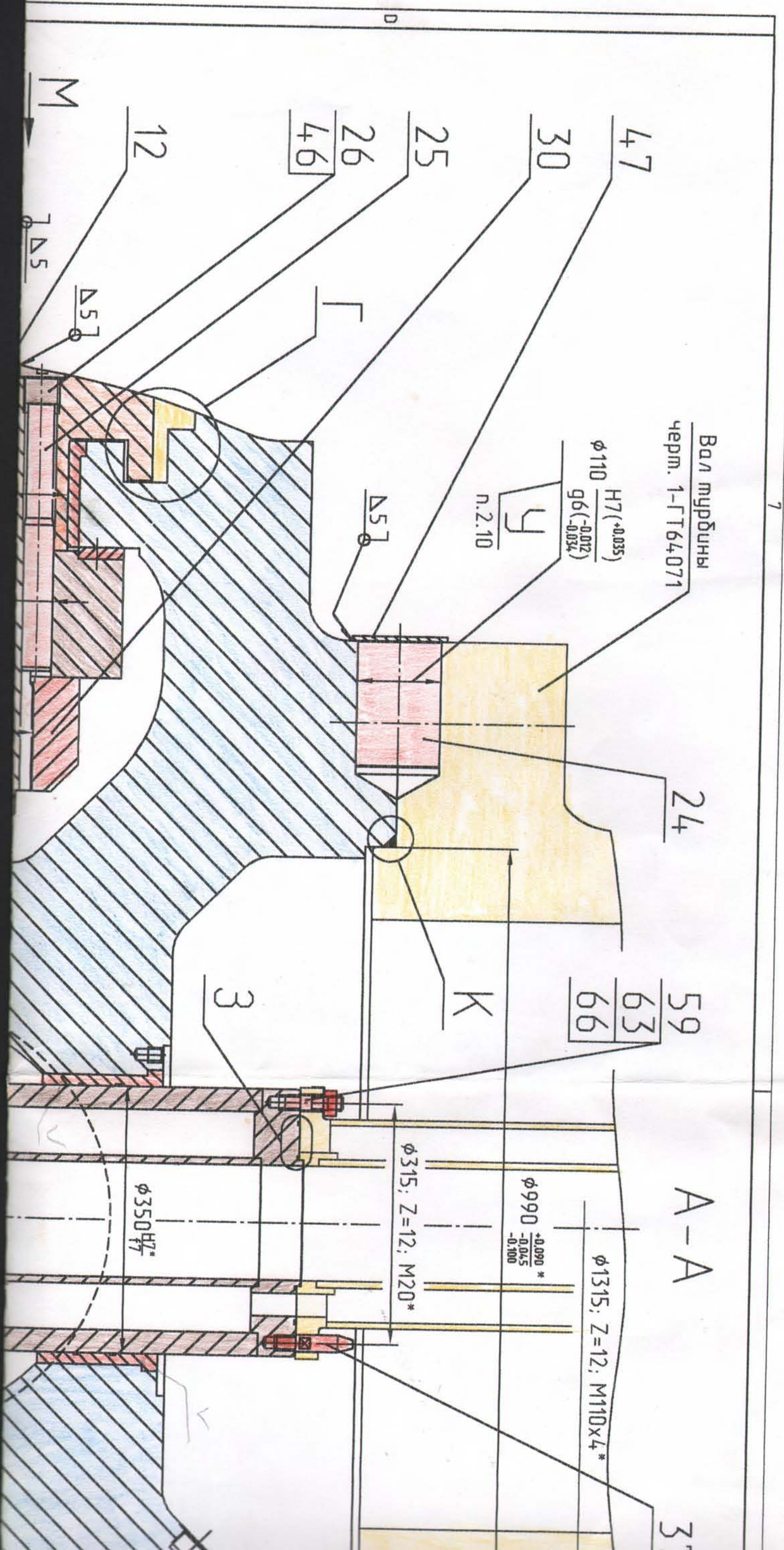
И

Б

Р

91,5*

φ1580^{+0.125*}
<sub>-0.300
-0.400</sub>



Вал ширбины
черм. 1-ГТ64071

$\phi 110$
H7 (+0.035)
g6 (-0.012)
n.2.10

24

59
63
66

A-A

$\phi 1315$; Z=12; M110x4 *

$\phi 990$
+0.090 *
-0.045
-0.100

$\phi 315$; Z=12; M20 *

$\phi 350$
H7
f7

3

1-TT182304CB

6

A-A

59
63
66

24

K

3

38
33
19

37

2

47

9
55
62

7Δ3

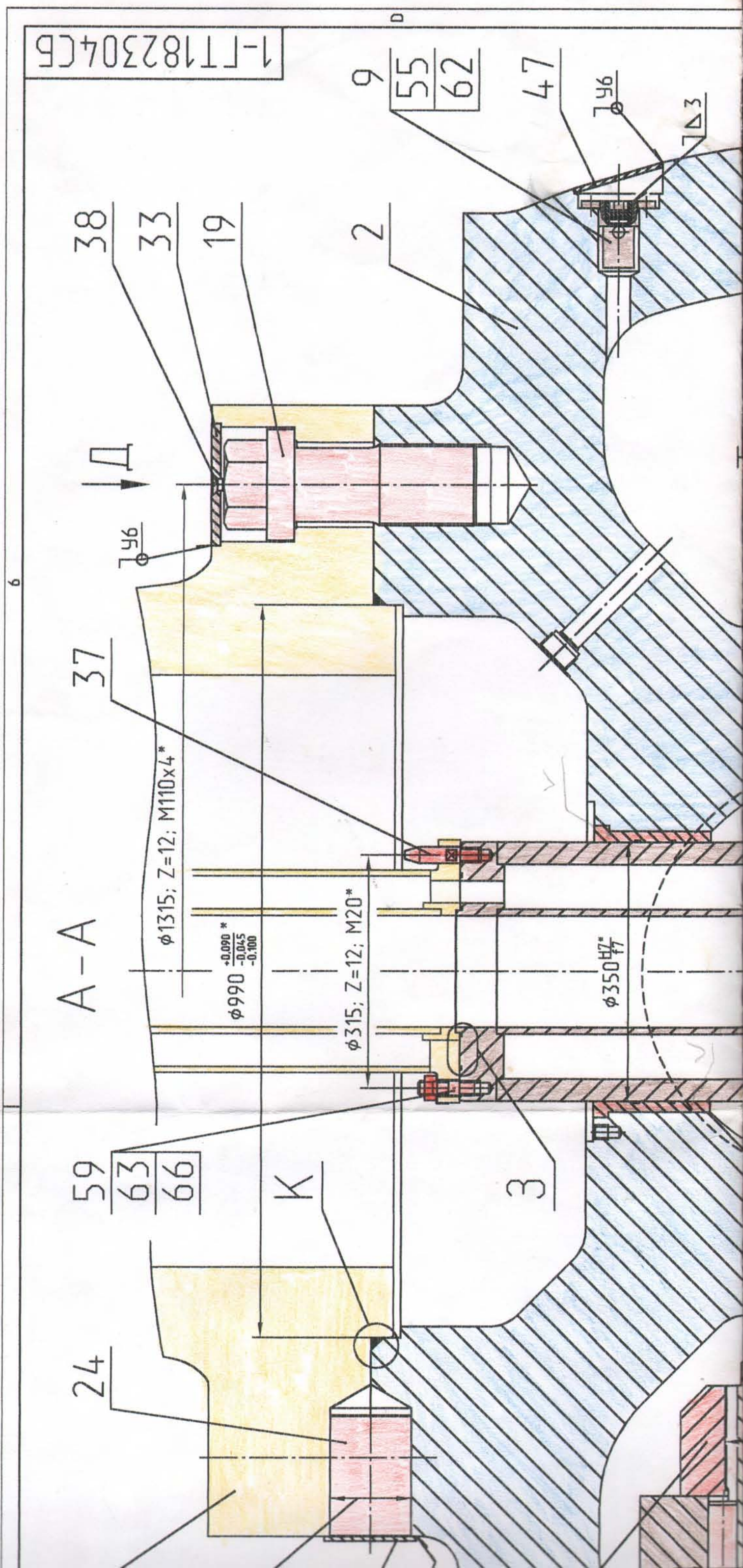
7Y6

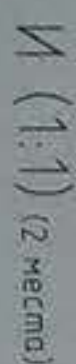
φ350 $\frac{H7}{f7}$

φ315; Z=12; M20*

φ990 $\begin{smallmatrix} +0.090^* \\ -0.045 \\ -0.100 \end{smallmatrix}$

φ1315; Z=12; M110x4*





2. № 6 TC
2.1. Всплощені на 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 8

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