

Prosta i łuki  
Pozioame

Prosta długości 154,93m

$d = 2,30^{\circ}$   $R = 1000$   $T_q = 17,28$   $SM = 0,15$

Prosta długości 205,75m

Spadki i łuki  
Pionowe

0.0127  
01

0.010  
134

$R = 2500$   
 $T = 16,3$   $B = 0,05$

0.006  
34,70

0.0025  
25

Początek projektu km 0+009

$108,70 + 0,05 = 108,75$

Rzędne terenu

112,45

112,00

111,10

108,80

108,60

108,25

108,30

Odległości

9

25

90

55,22

72,50

89,78

7,70

10

24

40,30

75

93

0+000

1

2

3

0.15

0.15

0.15

0.17

0.15

0.45

0.10

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upr. bud. dr. kraj. rob. drog. Nr 54/68

75	108.25
93	108.30
25	108.20
27	108.10
65	108.40
96.81	108.70
7	108.70
37	109.10
54	109.40
68.52	109.60
96	109.60
17	109.90
38	110.50
40.22	
92	
60	

prosta dlugosci 205,75m

$\Delta = 94,30^\circ$   $R = 100m$   $Tq = 87,19$   $Sw = 32,67$   $K = 143,44$   $p = 0,60$   $i = 4\%$

prosta dlugosci 122,78m

108.40	0.15
108.40	0.10
108.40	0.14
108.34	0.15
108.34	0.15
108.25	0.15
108.62	0.15
108.60	0.15
108.55	0.17
108.87	0.35
109.05	0.10
109.20	0.08
109.48	0.10
109.70	0.20
109.80	0.15
109.81	0.15
110.05	0.15
110.12	0.15
110.65	0.15

istniejacy przepust  $\phi 150$



1

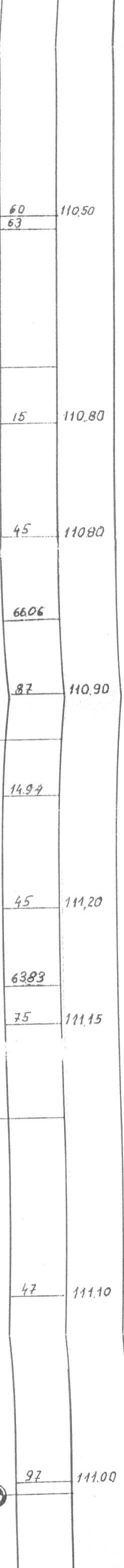
6

7

8

9

1+00



gosi ci 122,78m

PK.

Prosta dlugosci 103,06m

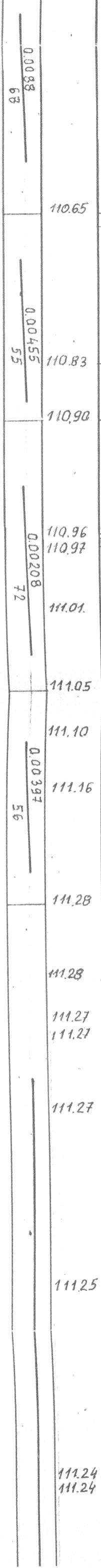
R=800m

$\tau_q=48,94$

$\delta=3,789$   
 $S_M=150m$

K=91,77m

Prosta dlugosci 268,1



0.15

0.10

0.16

0.15

0.08

0.12

0.15

0.24

111.24  
111.24

0.12

111.22

0.21

111.21  
111.21

0.19

111.19  
111.19

0.08

111.18

0.11

111.21

0000249  
402

o sta długości 268,17m

PK

prosta długości 230,90

111.00

97

111.10

80

111.00

40

111.00

90

111.10

47

111.10

4

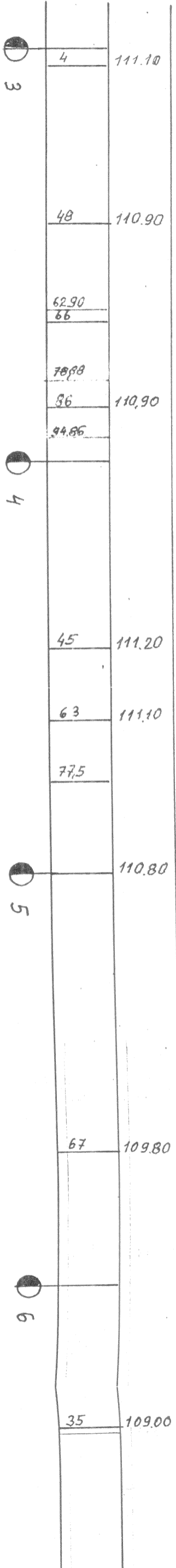
1+000

1

2

3

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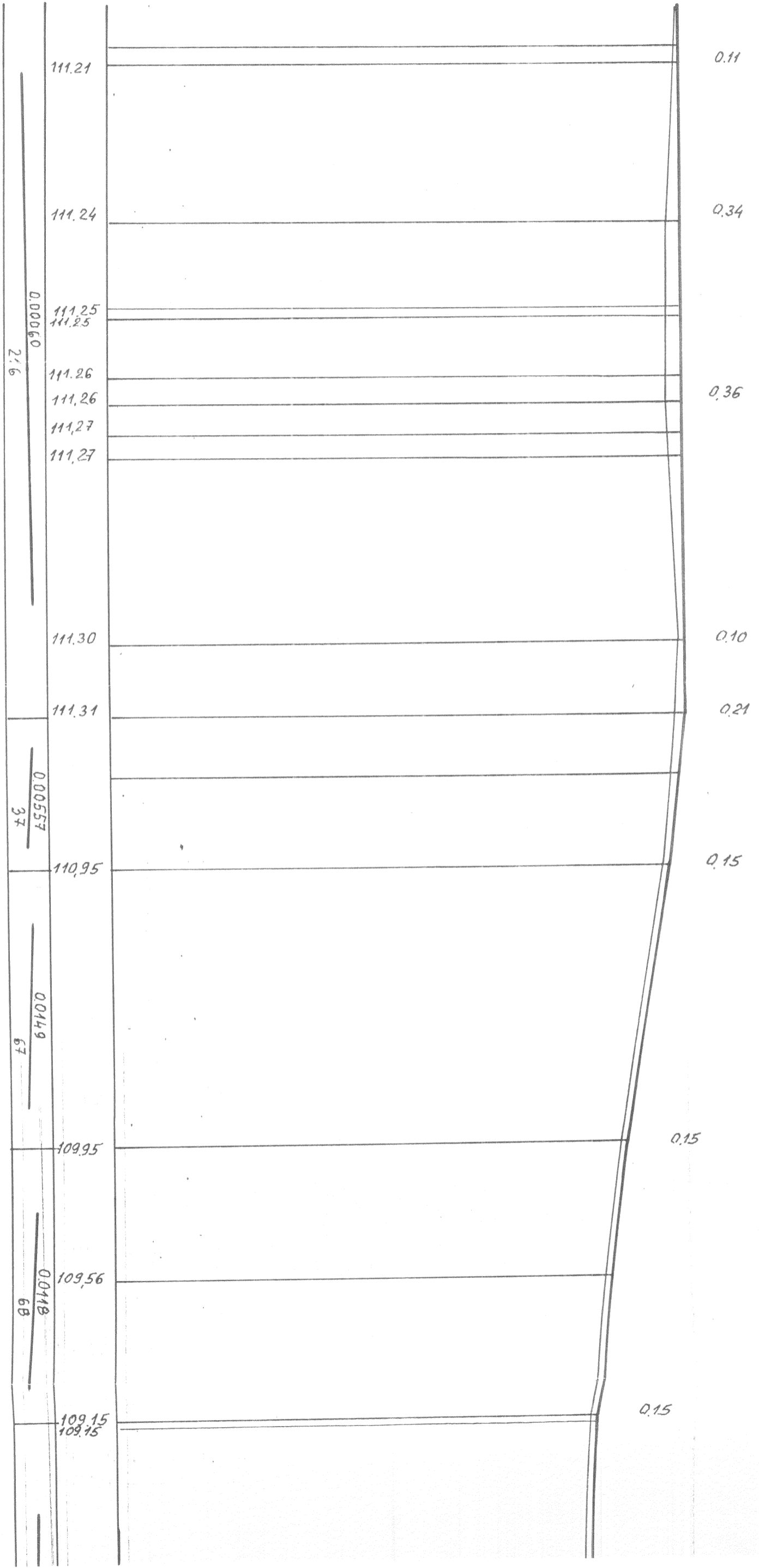
$T_g = 16.00m$   $S_M = 0.51m$   $K = 31.96m$

$d = 0.149$   $R = 250m$   
prosta dlugosci 82.64m

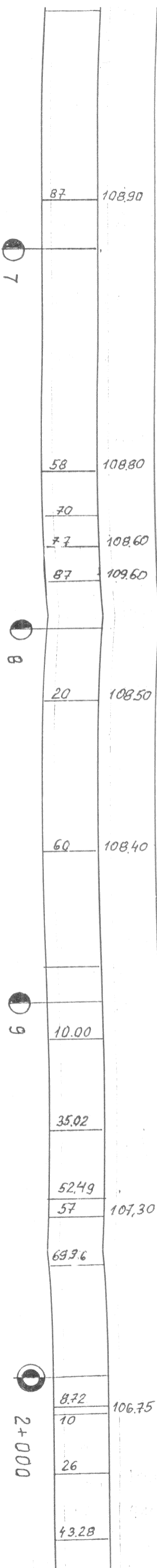
Skizowanie

prosta dlugosci 159m

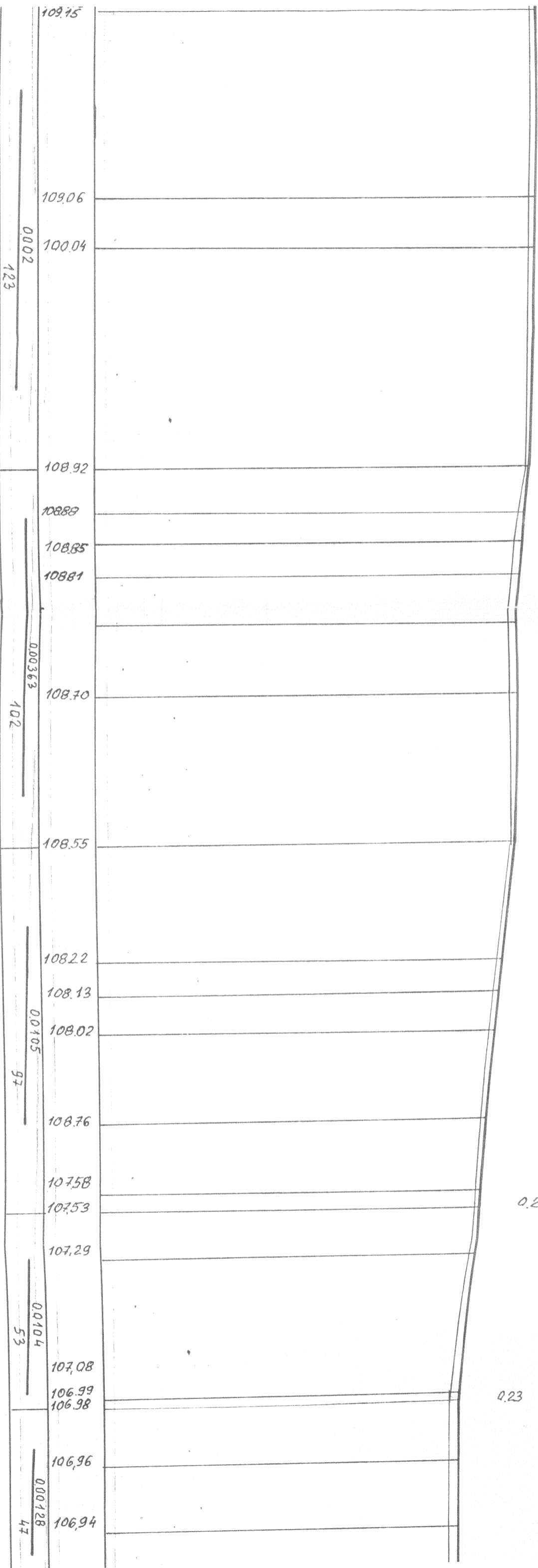
$d = 0.209$



0.11  
0.34  
0.36  
0.10  
0.21  
0.15  
0.15  
0.15



$d=0.20^{\circ}$   
 $d=0.30^{\circ}$   
 55 m  
 $d=0.20^{\circ}$   
 prosta długości 110.02 m  
 $d=5.56^{\circ}$  R=400 m Tg=17.48 m  
 K=34.94 m  
 38.36 m  
 $d=2.20^{\circ}$  R=1000 m Sw=0.15 m  
 K=34.56 m



0.16  
 0.12  
 0.21  
 0.20  
 0.15  
 0.23  
 0.23

2+000

1

2

3

69.56	
8.72	106.75
10	
26	
43.28	
57	106.70
68	106.70
27	
30	106.70
83	106.80
47	107.70
66	107.70
92	107.80
30	108.00

17.48m  
38.36m  
 $d=2,20^{\circ}$  R=1000m SW=0.15m  
K=34.56m

prosta długości 222.72m

skrzyżowanie prosta 88m

107.29	
0.0104	
53	
107.08	
106.99	
106.98	
106.96	
0.00128	
47	
106.94	
106.92	
106.92	
0.00	
73	
106.92	
106.92	
0.002	
53	
107.03	
107.26	
0.0136	
64	
107.90	
107.98	
0.00398	
83	
108.08	
108.11	
108.23	

projektowany przepust  $\phi 60$   
km 2+127

0.23

0.22

0.22

0.22

0.23

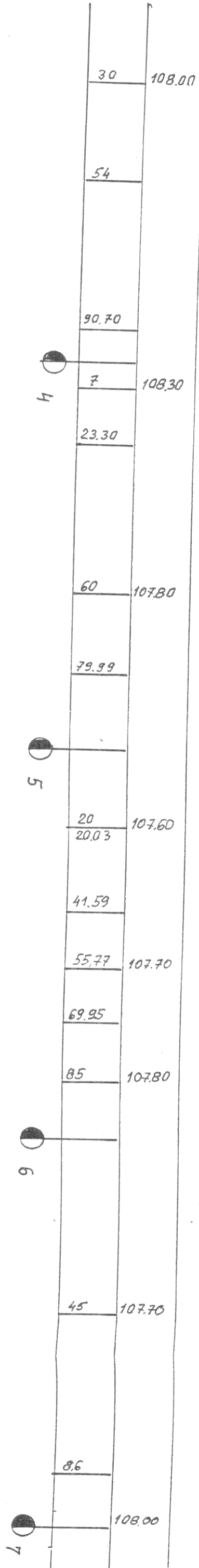
0.20

0.28

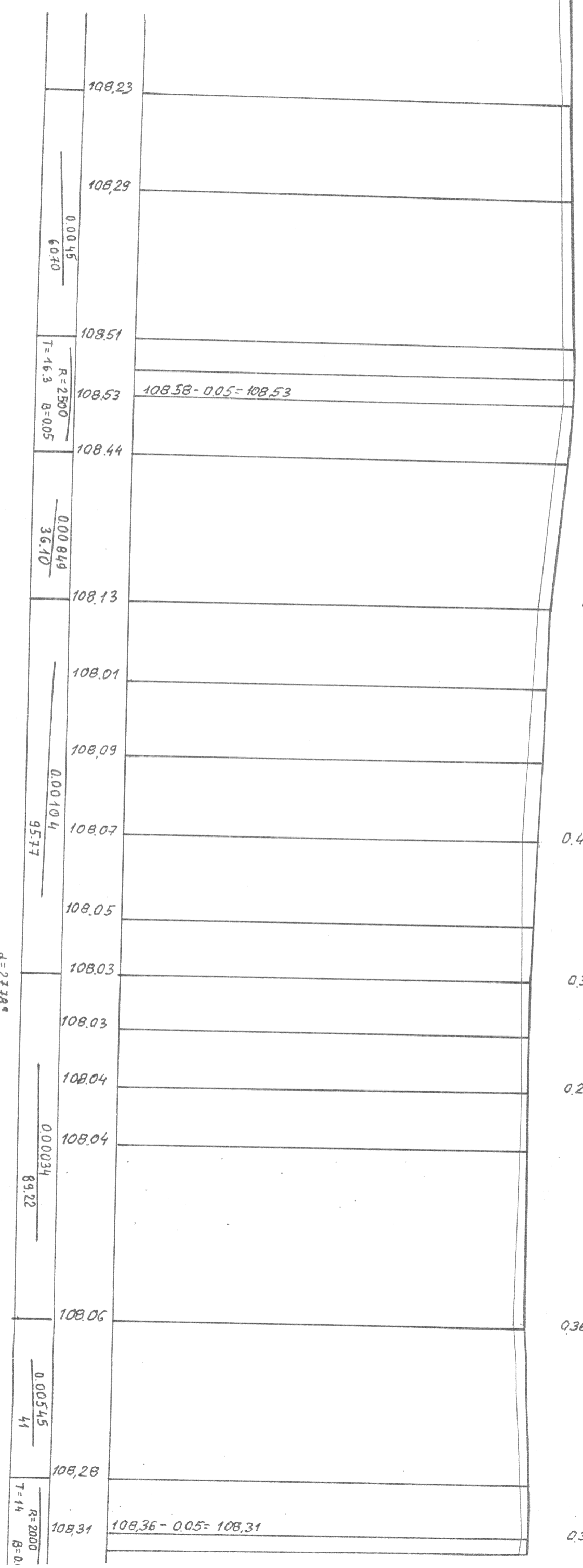
0.28

0.23

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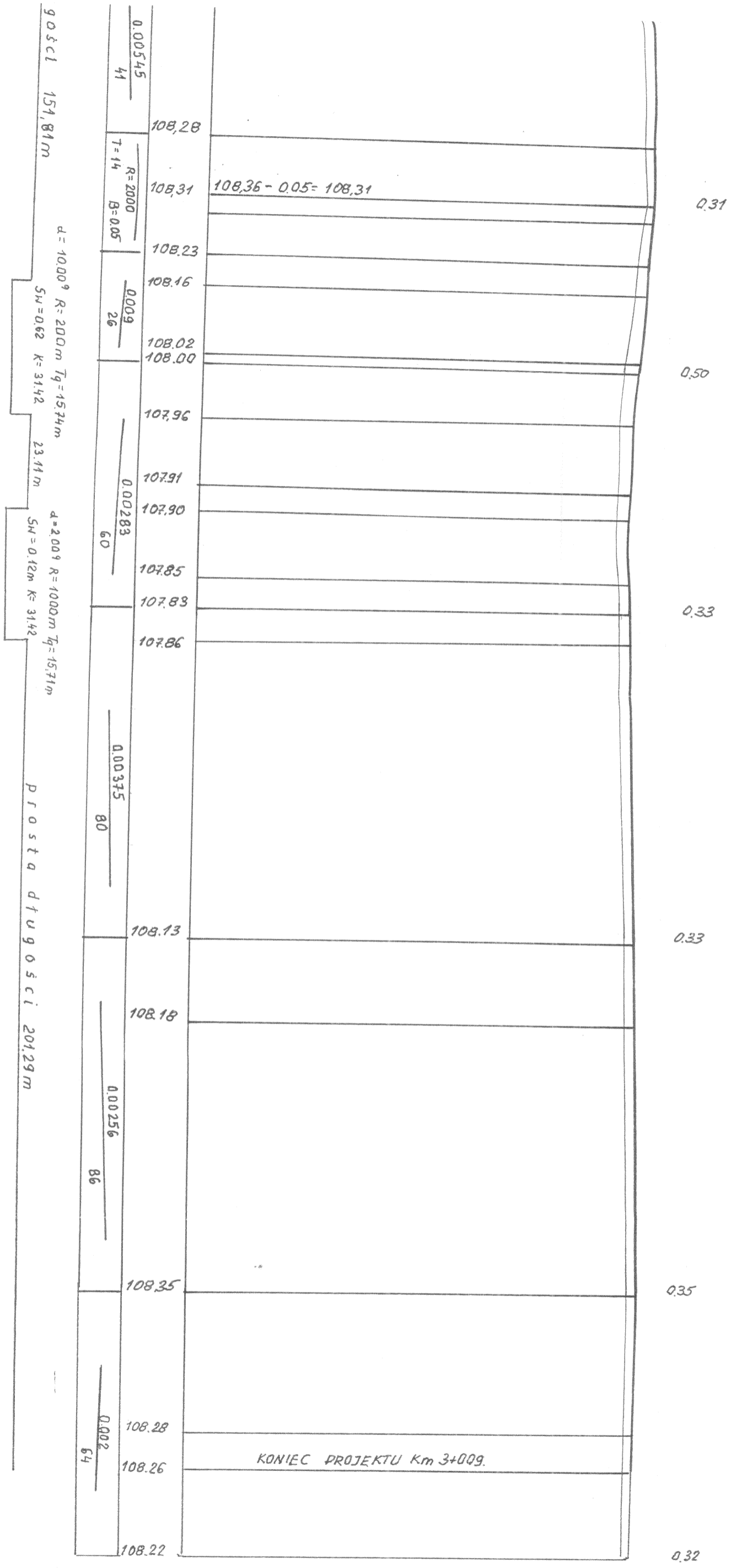
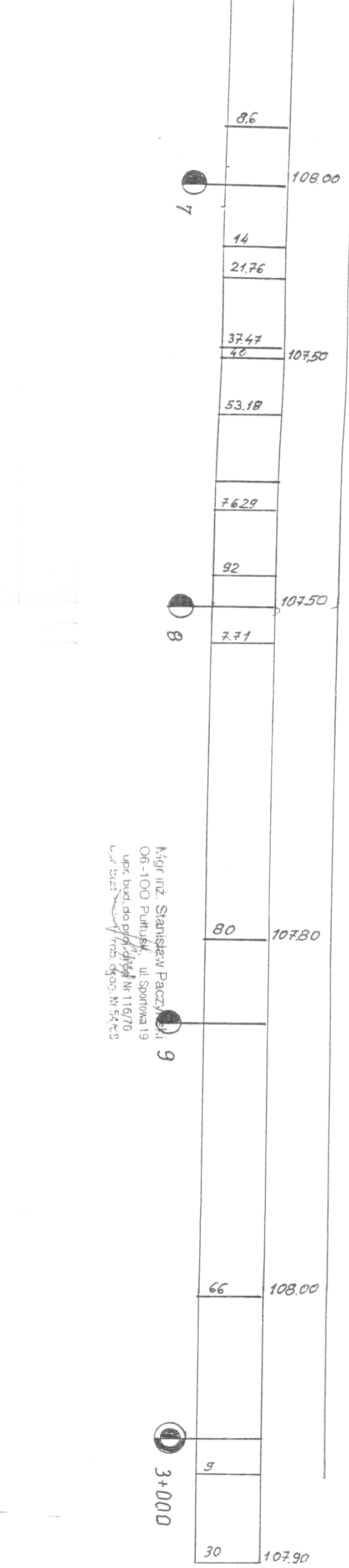


$\alpha = 0.85$   
 $\alpha = 0.80$   
 $\alpha = 27.78^\circ$   
 $R = 65m$   $T_g = 44.41m$   $S_w = 1.58m$   
 $K = 28.36m$   $p = 2 \times 0.50$   $i = 7\%$   
 Prosta długości 151,81m



0.23  
 0.23  
 0.33  
 0.47  
 0.33  
 0.24  
 0.36  
 0.31





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