

ИНВЕСТИЦИОНЕН ПРОЕКТ

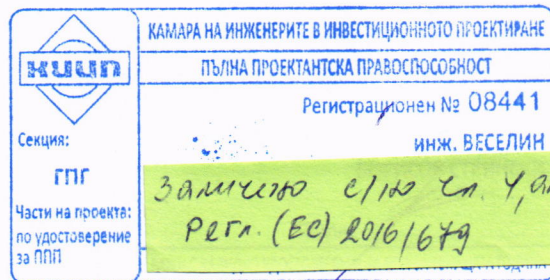
ОБЕКТ: " Изграждане на тротоари и междублокови пространства от ОТ667 - през ОТ669 - ОТ672 - ОТ671 до ОТ670, стр. кв. 15-гр.Белене"

ВЪЗЛОЖИТЕЛ: ОБЩИНА БЕЛЕНЕ

ИЗПЪЛНИТЕЛ: „САИЕРА-15” ЕООД

ЧАСТ: ГЕОДЕЗИЯ

ФАЗА: РП



Проектант:

/инж. В. Стрински/

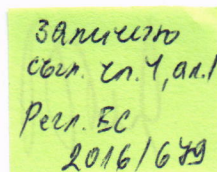
Управител :

Замислено съгл. сп. ч. 1, ал. 1
Регл. (ЕС) 2016/679
/Саша Захариева /

СЪГЛАСУВАЛИ:

ПЪТНА, ОД, ВОБД, ПУСО и ПБЗ: инж. Н. Дженева

ВЪЗЛОЖИТЕЛ: ОБЩИНА БЕЛЕНЕ



НОЕМВРИ 2017 г.

София

СЪДЪРЖАНИЕ

1. Челен лист;
2. Удостоверения за проектантска правоспособност;
3. Удостоверение АГКК
4. Застрахователна полица
5. Обяснителна записка
6. Координатен регистър на работните точки
7. Данни от измерванията на геод. снимка
8. Чертежи:
 - 8.1.Геодезическо заснемане М 1:500

ОБЯСНИТЕЛНА ЗАПИСКА

ОБЕКТ: " Изграждане на тротоари и междублокови пространства от ОТ667 - през ОТ669 - ОТ672 - ОТ671 до ОТ670, стр. кв. 15-гр.Белене

Настоящият работен проект е изготвен по искане на инвеститора - Община Белене.

За нуждите на проекта е направено Геодезично заснемане на обекта.

За основа е ползвана геодезичната мрежа в района на обекта, а именно, рт37 и новосъздадените пт1, пт2 и пт3 (трайно стабилизиращи с маркиращи пирони), координатите и котите, на които са определени с GPS „LEICA GNSS-GS09” и трансформирани в координатна система БГС-2005 и височинна система EVRS2007.

Заснемането е извършено по полярен метод, с тотална станция “LEICA 1200 TCR” с точност на измерване на ъглите 10с и за дължините 1мм.

Заснети са елементите на кадастъра (прилежаща застройка, елементи на съществуващата техническа инфраструктура), както и релефа на терена в района.

Обработката на данните е извършено със софтуер CADIS, AutoCAD.

Извадени са трасировъчните данни на основните точки от проекта.

Плановете са изчертани в мащаб - М 1:500

Изготвил:

/инж. В.Стрински/

Замислено
Чл. 10 ст. 4 ал. 1
Регл. (ЕС)
2016/679

СЪГЛАСУВАЛИ:

ПЪТНА, ОД, ВОБД, ПУСО и ПБЗ: И.Дженева

Замислено
ст. 10 ст. 4 ал. 1
Регл. (ЕС)
2016/679

ноември.2017 г.

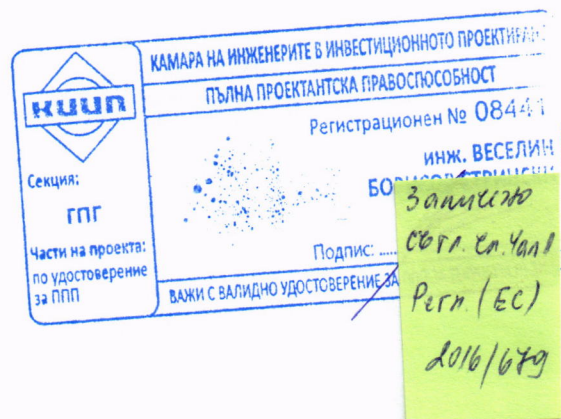
КООРДИНАТЕН РЕГИСТЪР

на работните точки

ОБЕКТ: Белене - кв.15 - кв.73

Координатна система БГС 2005 Височинна система EVRS2007

Номер	X	Y	H
тт228	4834369.493	469709.364	27.9530
тт229	4834354.482	469800.111	26.5830
пт1	4834966.812	470267.320	26.8210
пт2	4834998.896	470184.628	26.8350
пт3	4834350.298	469759.108	26.9680
пт4	4834295.185	469744.227	27.9307
пт5	4834275.562	469808.617	28.5706
пт6	4834259.143	469742.240	28.5933
пт7	4834221.046	469731.466	28.9925
пт8	4834307.669	469811.257	27.9100
пт3	4834965.888	470175.944	26.8772



```

1 #####
2 #
3 # ПОЛЯРНА ГЕОДЕЗИЧЕСКА СНИМКА #
4 # #
5 # #
6 # TplanWin v1.2.10 (Geosn) #
7 #####
8
9 Проект: E:\BELENE\BELENE_ULICI.tpl
10
11
12 ОБЕКТ: ULICI-KV15,KV73
13
14 ВЪЗЛОЖИТЕЛ:
15
16 ИЗПЪЛНИТЕЛ:
17
18 ДАТА: 14.11.2017г.
19
20
21 Координатна система: БГС 2005
22
23 Височинна система: EVRS (F2007)
24
25 Средна квадратна грешка за посока..... 30[cc]
26
27 Константи на далекомера..... a=5, b=5, c=0
28
29 Точност на центриране на инструмента..... 5[mm]
30
31 Точност на центриране на сигнала..... 5[mm]
32
33 Средна квадратна грешка за зенитен ъгъл.. 50[cc]
34
35 Средна квадратна грешка за превишение:.... 3[mm]
36
37 Точност на височината на инструмента:..... 5[mm]
38
39 Точност на височината на сигнала:..... 5[mm]
40
41 Брой станции с подробни точки:..... 9
42
43 Брой измерени подробни точки:..... 779
44
45
46
47
48
49 Станция: тт228(7) Ih = 1.588
50 -----
51 Име(клас) X Y H O V
52 тт229(7) 4834354.482 469800.111 26.583 1.7586 0.0018
53 тт229(7) 4834354.482 469800.111 26.583 1.7597 0.0007
54 тт229(7) 4834354.482 469800.111 26.583 1.7622 -0.0019
55 пт3(9) 4834350.298 469759.108 26.968 1.7604 -0.0000
56 пт3(9) 4834350.298 469759.108 26.968 1.7620 -0.0016
57 тт228(7) 4834369.493 469709.364 27.953 1.7604
58
59 Име(клас) Th R Z S D X(Vx) Y(Vy) H(Vh)
60 тт229(7) 0.400 108.678 101.738 92.008 91.980 0.003 0.001
61 -0.047
62 тт229(7) 0.400 108.677 101.738 92.006 91.978 0.001 0.002
63 -0.047
64 тт229(7) 0.400 108.674 101.738 92.008 91.980 -0.003 -0.000
65 -0.047
66 пт3(9) 0.400 121.685 102.556 53.362 53.323 0.001 -0.004
67 -0.031
68 пт3(9) 0.400 121.683 102.556 53.358 53.319 -0.001 -0.000
69 -0.031
70
71 Станция: пт1(8) Ih = 1.550
72 -----

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67 Име(клас) X Y H O V
68 пт2(8) 4834998.896 470184.628 26.835 1.7587 0.0017
69 пт2(8) 4834998.896 470184.628 26.835 1.7588 0.0016
70 пт2(8) 4834998.896 470184.628 26.835 1.7638 -0.0034
71 пт1(8) 4834966.812 470267.320 26.821 1.7605
72
73 Име(клас) Th R Z S D X(Vx) Y(Vy) H(Vh)
74 пт2(8) 0.400 321.803 100.827 88.710 88.709 -0.006 0.009
75 0.016
76 пт2(8) 0.400 321.803 100.826 88.710 88.709 -0.006 0.009
77 0.015
78 пт2(8) 0.400 321.798 100.827 88.710 88.709 0.001 0.012
79 0.016
80 1 0.400 287.478 103.957 22.245 22.204 4834963.076 470245.433 26.589
81 2 0.400 293.567 103.854 21.744 21.706 4834965.220 470245.673 26.655
82 3 0.400 321.072 105.033 14.084 14.041 4834971.741 470254.172 26.859
83 4 0.400 315.734 105.837 12.923 12.870 4834970.304 470254.933 26.788
84 5 0.400 280.210 104.217 23.211 23.162 4834960.340 470245.081 26.435
85 6 0.400 279.883 104.698 23.169 23.108 4834960.241 470245.166 26.263
86 7 0.400 270.258 104.788 21.787 21.727 4834957.567 470247.658 26.334
87 8 0.400 258.031 105.279 21.242 21.171 4834954.312 470250.233 26.212
88 9 0.400 257.618 104.840 20.428 20.370 4834954.678 470250.958 26.420
89 10 0.400 257.927 106.630 13.672 13.599 4834958.765 470256.358 26.550
90 11 0.400 258.717 107.536 13.687 13.592 4834958.905 470256.264 26.355
91 12 0.400 275.783 106.720 14.492 14.412 4834961.833 470253.795 26.444
92 13 0.400 290.920 105.979 16.222 16.152 4834964.959 470251.275 26.450
93 14 0.400 291.422 105.108 16.298 16.247 4834965.075 470251.166 26.665
94 15 0.400 306.981 106.284 11.894 11.837 4834968.432 470255.594 26.799
95 16 0.400 306.480 107.603 11.785 11.702 4834968.322 470255.716 26.567
96 17 0.400 285.795 109.633 9.626 9.517 4834964.964 470257.985 26.520
97 18 0.400 259.931 111.077 8.704 8.573 4834961.959 470260.253 26.464
98 19 0.400 258.840 109.666 8.674 8.575 4834961.838 470260.336 26.659
99 20 0.400 264.843 137.043 2.137 1.785 4834965.918 470265.775 26.797
100 21 0.400 270.819 141.486 2.291 1.822 4834966.051 470265.665 26.581
101 22 0.400 336.434 116.393 5.218 5.046 4834969.661 470263.155 26.642
102 23 0.400 345.365 109.789 8.630 8.529 4834972.564 470261.023 26.649
103 24 0.400 390.805 106.819 9.868 9.812 4834976.557 470266.177 26.916
104 25 0.400 390.761 108.115 9.713 9.635 4834976.381 470266.191 26.736
105 26 0.400 2.500 113.031 6.193 6.064 4834972.863 470267.726 26.712
106 27 0.400 51.912 124.510 3.464 3.211 4834968.948 470269.717 26.670
107 28 0.400 55.341 120.817 3.405 3.225 4834968.824 470269.840 26.877
108 29 0.400 64.858 106.037 10.171 10.126 4834971.882 470276.086 27.008
109 30 0.400 63.862 107.284 10.204 10.138 4834972.024 470276.015 26.806
110 31 0.400 41.834 106.289 11.353 11.298 4834975.563 470274.466 26.851
111 32 0.400 25.571 105.434 13.546 13.498 4834979.085 470272.938 26.816
112 33 0.400 25.096 104.623 13.652 13.617 4834979.235 470272.896 26.981
113 34 0.400 40.225 103.076 19.022 19.001 4834981.829 470278.963 27.052
114 35 0.400 40.735 103.642 18.973 18.943 4834981.689 470279.047 26.886
115 36 0.400 51.855 103.974 17.172 17.140 4834978.224 470280.108 26.900
116 37 0.400 69.106 104.454 15.214 15.178 4834973.518 470280.936 26.908
117 38 0.400 69.680 103.633 15.155 15.131 4834973.375 470280.954 27.107
118 39 0.400 53.174 117.630 5.048 4.856 4834969.970 470271.009 26.591
119 40 0.400 4.554 107.908 10.102 10.025 4834976.788 470268.313 26.719
120 41 0.400 382.147 115.499 5.423 5.263 4834971.908 470266.004 26.664
121 42 0.400 381.365 108.471 9.572 9.488 4834975.969 470264.834 26.701
122 43 0.400 381.580 106.907 9.695 9.639 4834976.123 470264.826 26.921
123 44 0.400 382.698 104.461 12.541 12.511 4834978.952 470264.296 27.093
124 45 0.400 372.486 106.515 10.133 10.081 4834976.079 470263.352 26.936
125 46 0.400 371.470 107.919 10.011 9.934 4834975.881 470263.265 26.729
126 47 0.400 346.891 108.548 9.973 9.884 4834973.651 470260.185 26.636
127 48 0.400 324.889 107.043 11.652 11.582 4834971.520 470256.738 26.685
128 49 0.400 324.520 106.453 11.786 11.726 4834971.517 470256.579 26.778
129 50 0.400 315.573 107.631 11.165 11.086 4834969.793 470256.643 26.636
130 51 0.400 315.480 106.684 11.290 11.229 4834969.816 470256.501 26.788
131 52 0.400 331.407 106.367 12.820 12.757 4834973.162 470256.256 26.691
132 53 0.400 330.824 105.905 12.917 12.862 4834973.112 470256.106 26.775
133 54 0.400 345.056 107.009 12.253 12.180 4834974.983 470258.288 26.625
134 55 0.400 363.526 106.809 12.208 12.139 4834977.191 470261.024 26.668
135 56 0.400 364.052 105.532 12.238 12.193 4834977.288 470261.082 26.909
136 57 0.400 371.531 104.756 14.727 14.687 4834980.225 470261.337 26.872
137 58 0.400 334.559 105.821 14.328 14.269 4834974.518 470255.311 26.663

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272	179	0.400	100.312	111.731	5.818	5.720	4834998.7	470190.345	26.834	343	тт229(7)	4	254.482	469800.111	26.583	1.7574	-0.0011			
273	180	0.400	81.103	107.511	6.017	5.976	4835000.485	470190.388	27.192	344	пт4(9)	4	295.185	469744.227	27.931	1.7564	-0.0000			
274	181	0.400	333.297	117.427	3.404	3.277	4835000.611	470181.835	26.980	345	пт4(9)	4	295.185	469744.227	27.931	1.7563	0.0000			
275	182	0.400	297.969	123.455	2.995	2.794	4834998.884	470181.834	26.821	346	пт3(9)	4	350.298	469759.108	26.968	1.7563				
276	183	0.400	297.222	126.138	3.070	2.815	4834998.851	470181.813	26.675	347										
277	184	0.400	257.860	115.796	4.967	4.815	4834996.042	470180.749	26.680	348	Име(клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)	
278	185	0.400	240.978	107.317	11.882	11.804	4834989.653	470177.286	26.537	349	тт229(7)	0.400	91.770	102.450	41.247	41.219	0.000	-0.003		
279	186	0.400	237.827	104.642	17.614	17.568	4834984.616	470174.395	26.617		-0.018									
280	187	0.400	238.411	103.475	23.968	23.934	4834979.570	470170.509	26.592	350	тт229(7)	0.400	91.770	102.449	41.245	41.217	0.000	-0.001		
281	188	0.400	244.927	103.301	24.910	24.878	4834980.412	470167.976	26.609		-0.019									
282	189	0.400	246.725	103.232	25.133	25.102	4834980.728	470167.306	26.624	351	тт229(7)	0.400	91.768	102.450	41.244	41.216	-0.001	0.000		
283	190	0.400	246.768	102.867	25.165	25.141	4834980.712	470167.267	26.767		-0.018									
284	191	0.400	253.987	102.887	26.520	26.495	4834981.926	470164.281	26.698	352	пт4(9)	0.400	215.033	100.283	57.083	57.086	0.000	0.000		
285	192	0.400	254.067	102.439	26.550	26.532	4834981.927	470164.231	26.883		-0.004									
286	193	0.400	256.609	102.244	27.184	27.169	4834982.368	470163.065	26.942	353	пт4(9)	0.400	215.033	100.283	57.082	57.085	-0.001	-0.000		
287	194	0.400	279.774	105.286	15.071	15.020	4834994.599	470170.235	26.650		-0.004									
288	195	0.400	279.861	104.577	15.096	15.058	4834994.608	470170.193	26.816	354		325	0.400	21.036	113.035	7.324	7.172	4834357.015	469761.621	26.699
289	196	0.400	280.757	104.282	16.363	16.327	4834994.468	470168.913	26.800	355		326	0.400	297.852	103.388	17.143	17.120	4834350.192	469741.988	27.276
290	197	0.400	290.272	105.087	15.717	15.668	4834996.939	470169.083	26.645	356		326	0.400	89.962	121.764	4.587	4.322	4834350.858	469763.393	26.650
291	198	0.400	299.115	104.908	15.507	15.462	4834999.108	470169.167	26.706	357		327	0.400	305.342	103.541	17.267	17.242	4834352.216	469741.973	27.228
292	199	0.400	299.311	104.300	15.504	15.470	4834999.156	470169.160	26.853	358		327	0.400	46.062	115.637	6.103	5.833	4834354.561	469763.088	26.726
293	200	0.400	306.744	104.242	15.639	15.605	4835000.974	470169.162	26.859	359		328	0.400	305.928	104.236	17.309	17.272	4834352.378	469741.961	27.037
294	201	0.400	303.618	102.287	22.469	22.456	4835000.790	470162.252	27.093	360		328	0.400	127.455	117.514	4.619	4.446	4834348.329	469763.093	26.933
295	202	0.400	299.391	102.699	22.528	22.509	4834999.302	470162.122	26.945	361		329	0.400	319.292	103.856	17.820	17.789	4834356.073	469742.282	27.109
296	203	0.400	299.258	103.294	22.572	22.543	4834999.256	470162.087	26.733	362		329	0.400	99.671	119.000	4.395	4.201	4834350.204	469763.308	26.896
297	204	0.400	292.767	103.393	22.743	22.712	4834996.945	470162.000	26.689	363		330	0.400	330.128	103.846	18.814	18.781	4834359.316	469742.633	27.052
298	205	0.400	286.801	103.060	23.247	23.222	4834994.745	470161.780	26.783	364		331	0.400	330.670	103.222	18.863	18.840	4834359.485	469742.659	27.234
299	206	0.400	286.741	102.716	23.261	23.242	4834994.720	470161.765	26.908	365		332	0.400	342.168	104.990	13.574	13.533	4834358.912	469748.670	27.125
300	207	0.400	289.580	101.877	30.063	30.052	4834994.820	470154.854	27.014	366		333	0.400	341.548	105.975	13.496	13.438	4834358.749	469748.661	26.923
301	208	0.400	289.696	102.098	30.090	30.076	4834994.871	470154.823	26.909	367		334	0.400	326.938	106.149	12.284	12.228	4834355.624	469748.101	27.003
302	209	0.400	294.374	102.225	29.932	29.916	4834997.079	470154.767	26.854	368		335	0.400	306.520	106.102	12.764	12.706	4834351.945	469746.509	26.966
303	210	0.400	299.347	102.051	29.922	29.909	4834999.415	470154.724	26.936	369		336	0.400	305.684	105.163	12.734	12.693	4834351.778	469746.501	27.156
304	211	0.400	299.408	101.822	29.916	29.906	4834999.444	470154.727	27.044	370		337	0.400	295.733	104.912	12.908	12.871	4834349.790	469746.247	27.193
305	212	0.400	299.319	101.062	42.455	42.452	4834999.614	470142.182	27.192	371		338	0.400	303.492	106.235	10.825	10.774	4834351.185	469748.370	27.130
306	213	0.400	299.440	101.032	42.437	42.435	4834999.694	470142.201	27.212	372		339	0.400	304.423	107.234	10.797	10.728	4834351.337	469748.430	26.964
307	214	0.400	302.139	101.154	41.828	41.824	4835001.454	470142.882	27.142	373		340	0.400	296.957	108.200	9.796	9.716	4834350.101	469749.394	26.930
308	215	0.400	296.468	101.112	43.179	43.176	4834997.693	470141.469	27.146	374		341	0.400	296.693	107.167	9.829	9.767	4834350.060	469749.343	27.084
309	216	0.400	292.872	100.967	44.367	44.365	4834995.158	470140.421	27.226	375		342	0.400	292.956	106.692	10.533	10.476	4834349.429	469748.668	27.083
310	217	0.400	292.977	101.038	44.361	44.358	4834995.231	470140.421	27.177	376		343	0.400	359.356	107.115	10.066	10.004	4834358.493	469753.370	27.065
311	218	0.400	272.440	101.357	49.442	49.434	4834979.404	470139.199	26.847	377		344	0.400	358.618	108.438	9.969	9.882	4834358.327	469753.346	26.871
312	219	0.400	268.647	101.370	49.878	49.870	4834976.538	470140.050	26.827	378		345	0.400	338.897	111.167	7.463	7.349	4834354.678	469753.207	26.886
313	220	0.400	267.739	101.393	46.497	46.489	4834977.463	470143.374	26.882	379		346	0.400	309.136	113.538	6.362	6.219	4834351.357	469752.979	26.845
314	221	0.400	270.159	101.518	44.370	44.361	4834979.956	470144.514	26.842	380		347	0.400	276.898	120.968	4.009	3.794	4834349.049	469755.525	26.891
315	223	0.400	258.461	100.934	41.832	41.831	4834974.425	470150.702	27.287	381		348	0.400	302.865	129.428	3.150	2.820	4834350.502	469756.295	26.783
316	224	0.400	258.523	101.165	41.833	41.829	4834974.459	470150.679	27.135	382		349	0.400	299.580	127.300	2.941	2.675	4834350.354	469756.433	26.965
317	225	0.400	258.705	101.177	41.608	41.604	4834974.687	470150.793	27.131	383		350	0.400	238.658	135.998	2.196	1.854	4834348.805	469758.008	27.011
318	226	0.400	258.745	101.508	41.580	41.571	4834974.727	470150.804	26.915	384		351	0.400	390.838	121.468	4.220	3.983	4834354.253	469758.645	26.792
319	227	0.400	258.537	101.640	39.879	39.869	4834975.611	470152.266	26.873	385		352	0.400	397.637	111.934	7.597	7.464	4834357.762	469759.037	26.772
320	228	0.400	249.992	101.429	40.459	40.452	4834971.089	470155.249	26.992	386		353	0.400	99.675	119.001	4.398	4.204	4834350.203	469763.310	26.895
321	229	0.400	248.828	101.711	36.548	36.537	4834973.299	470158.556	26.918	387		354	0.400	97.345	121.521	4.516	4.261	4834350.358	469763.368	26.690
322	230	0.400	249.084	101.338	41.865	41.859	4834969.691	470154.641	27.020	388		355	0.400	287.347	113.739	6.614	6.461	4834349.197	469752.741	26.772
323	231	0.400	247.203	101.822	34.932	34.920	4834973.804	470160.342	26.900	389		356	0.400	267.596	105.702	13.474	13.421	4834344.083	469747.212	26.983
324	232	0.400	247.142	102.031	34.898	34.883	4834973.808	470160.392	26.787	390		357	0.400	258.311	106.765	11.600	11.535	4834343.527	469749.768	26.958
325	233	0.400	250.449	102.240	30.315	30.298	4834978.227	470162.474	26.834	391		358	0.400	246.570	107.776	9.988	9.914	4834343.105	469752.284	26.971
326	234	0.400	250.294	102.589	30.344	30.321	4834978.158	470162.508	26.666	392		359	0.400	230.354	108.931	8.556	8.473	4834342.880	469755.013	26.992
327	235	0.400	248.349	102.696	29.817	29.792	4834977.865	470163.526												

409		376	0.400	213.955	103.361	21.689	21.660	4834329.2	469753.816	27.044
410		377	0.400	214.143	103.459	20.767	20.738	4834330.203	469753.982	27.060
411		378	0.400	226.255	100.348	51.953	51.956	4834303.290	469736.978	27.904
412		379	0.400	224.161	100.391	50.136	50.139	4834304.257	469739.255	27.880
413		380	0.400	221.415	100.380	50.618	50.621	4834302.993	469741.087	27.886
414		381	0.400	223.401	100.370	51.552	51.555	4834302.716	469739.261	27.888
415										
416				Станция:		пт4(9)		Ih = 1.579		
417										
418	Име (клас		X		Y		H	O	V	
419	пт3(9)		4834350.298		469759.108		26.968	1.7578	0.0004	
420	пт3(9)		4834350.298		469759.108		26.968	1.7583	-0.0001	
421	пт3(9)		4834350.298		469759.108		26.968	1.7587	-0.0004	
422	пт5(9)		4834275.562		469808.617		28.571	1.7592	-0.0010	
423	пт5(9)		4834275.562		469808.617		28.571	1.7573	0.0010	
424	пт6(9)		4834259.143		469742.240		28.593	1.7593	-0.0010	
425	пт6(9)		4834259.143		469742.240		28.593	1.7573	0.0010	
426	пт7(9)		4834221.046		469731.466		28.992	1.7581	0.0002	
427	пт7(9)		4834221.046		469731.466		28.992	1.7584	-0.0002	
428	пт4(9)		4834295.185		469744.227		27.931	1.7583		
429										
430	Име (клас		Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
431	пт3(9)	0.400	15.031	102.386	57.124	57.124	57.088	-0.002	-0.001	
	-0.002									
432	пт3(9)	0.400	15.031	102.384	57.122	57.122	57.086	0.000	0.000	
	-0.003									
433	пт3(9)	0.400	15.030	102.386	57.121	57.121	57.085	0.001	0.001	
	-0.002									
434	пт5(9)	0.400	117.073	100.507	67.307	67.307	67.309	-0.002	0.005	
	-0.003									
435	пт5(9)	0.400	117.075	100.507	67.312	67.312	67.314	0.001	0.000	
	-0.003									
436	пт6(9)	0.400	201.747	100.906	36.098	36.097	36.097	0.000	-0.001	
	-0.003									
437	пт6(9)	0.400	201.749	100.906	36.097	36.096	36.096	-0.001	0.001	
	-0.003									
438	пт7(9)	0.400	209.093	100.101	75.227	75.227	75.232	0.003	0.001	
	0.001									
439	пт7(9)	0.400	209.093	100.101	75.228	75.228	75.233	0.004	0.000	
	0.001									
440	382	0.400	17.604	104.497	26.012	25.949	4834319.943	469751.998	27.274	
441	383	0.400	24.539	107.767	13.150	13.053	4834307.141	469749.467	27.509	
442	384	0.400	43.044	114.099	6.541	6.382	4834300.051	469748.356	27.673	
443	385	0.400	197.125	104.294	15.303	15.269	4834279.918	469744.495	28.078	
444	386	0.400	200.501	102.979	20.456	20.435	4834274.763	469743.502	28.153	
445	387	0.400	203.782	101.900	27.820	27.810	4834267.481	469741.810	28.280	
446	388	0.400	205.744	101.364	33.274	33.269	4834262.147	469740.315	28.397	
447	389	0.400	208.444	100.508	53.308	53.310	4834242.558	469735.720	28.684	
448	390	0.400	210.517	100.115	74.812	74.817	4834221.755	469729.890	28.975	
449	391	0.400	206.350	100.089	78.564	78.570	4834217.252	469734.246	29.000	
450	392	0.400	209.531	100.064	81.605	81.611	4834214.854	469729.830	29.028	
451	393	0.400	204.997	99.865	68.660	68.665	4834226.907	469736.955	29.256	
452	394	0.400	200.721	100.798	37.426	37.426	4834257.788	469742.769	28.641	
453	395	0.400	386.439	104.262	22.188	22.140	4834316.946	469740.146	27.626	
454	396	0.400	386.342	103.765	22.211	22.174	4834316.973	469740.106	27.797	
455	397	0.400	399.911	104.895	20.412	20.353	4834315.532	469744.760	27.542	
456	398	0.400	400.041	105.302	20.405	20.336	4834315.513	469744.801	27.412	
457	399	0.400	14.421	105.491	20.114	20.041	4834314.582	469749.265	27.377	
458	400	0.400	27.868	105.298	20.571	20.501	4834313.507	469753.427	27.400	
459	401	0.400	27.950	105.024	20.574	20.511	4834313.504	469753.455	27.488	
460	402	0.400	38.221	107.902	12.901	12.803	4834305.545	469751.749	27.513	
461	403	0.400	38.410	107.152	12.909	12.829	4834305.544	469751.795	27.662	
462	404	0.400	17.999	108.863	11.492	11.382	4834306.023	469747.703	27.515	
463	405	0.400	389.449	108.530	11.640	11.537	4834306.612	469742.638	27.555	
464	406	0.400	389.302	108.079	11.636	11.543	4834306.615	469742.611	27.637	
465	407	0.400	371.927	105.773	14.944	14.884	4834308.816	469738.248	27.756	
466	408	0.400	376.923	106.381	14.143	14.073	4834308.477	469739.602	27.694	
467	409	0.400	383.113	105.439	17.049	16.988	4834311.696	469740.227	27.655	
468	410	0.400	379.037	104.899	17.692	17.641	4834312.030	469738.985	27.750	
469	411	0.400	12.180	113.820	6.060	5.918	4834300.962	469745.512	27.805	
470	412	0.400	12.468	114.995	6.096	5.928	4834300.966	469745.540	27.687	

471	412	0.	326.144	110.456	6.752	6.662	4834298.012	469738.195	28.006
472	413	0.400	59.085	111.451	7.768	7.643	4834299.596	469750.469	27.720
473	413	0.400	325.915	109.292	6.722	6.651	4834297.986	469738.194	28.132
474	414	0.400	59.027	110.422	7.788	7.684	4834299.625	469750.499	27.840
475	414	0.400	350.538	124.847	2.921	2.702	4834297.163	469742.387	27.998
476	415	0.400	349.084	121.854	2.860	2.693	4834297.115	469742.348	28.147
477	416	0.400	226.349	105.954	9.743	9.701	4834286.414	469740.081	28.200
478	417	0.400	226.455	105.696	9.711	9.673	4834286.447	469740.079	28.242
479	418	0.400	248.991	104.331	11.548	11.522	4834287.134	469735.984	28.325
480	419	0.400	248.980	103.851	11.495	11.475	4834287.166	469736.019	28.415
481	420	0.400	238.981	102.713	16.033	16.020	4834282.336	469734.661	28.427
482	421	0.400	233.077	101.385	22.729	22.725	4834275.778	469732.403	28.615
483	422	0.400	238.497	101.272	22.243	22.240	4834277.245	469731.082	28.665
484	423	0.400	210.640	106.804	9.402	9.349	4834286.013	469742.417	28.107
485	424	0.400	210.413	107.441	9.411	9.347	4834286.008	469742.450	28.012
486	425	0.400	194.400	107.617	9.559	9.491	4834285.711	469744.799	27.969
487	426	0.400	178.575	106.750	10.547	10.489	4834285.193	469747.416	27.993
488	427	0.400	178.250	106.059	10.554	10.507	4834285.192	469747.472	28.107
489	428	0.400	165.072	107.056	9.124	9.069	4834287.320	469748.741	28.101
490	429	0.400	156.799	109.425	7.191	7.113	4834289.527	469748.537	28.049
491	430	0.400	156.143	105.688	10.946	10.903	4834286.581	469750.923	28.133
492	431	0.400	133.870	102.870	20.120	20.101	4834284.514	469761.261	28.203
493	432	0.400	139.174	102.562	20.742	20.727	4834282.758	469760.815	28.275
494	433	0.400	139.274	102.157	20.741	20.731	4834282.730	469760.798	28.407
495	434	0.400	140.540	101.967	24.012	24.002	4834280.386	469763.123	28.368
496	435	0.400	136.163	101.874	23.559	23.551	4834281.972	469763.721	28.417
497	436	0.400	136.023	102.192	23.590	23.578	4834282.000	469763.773	28.298
498	437	0.400	123.232	102.718	22.715	22.696	4834286.503	469765.196	28.140
499	438	0.400	112.696	102.724	22.874	22.855	4834290.041	469766.495	28.131
500	439	0.400	112.278	102.394	22.937	22.922	4834290.172	469766.594	28.247
501	440	0.400	100.686	102.272	24.180	24.166	4834294.258	469768.375	28.247
502	441	0.400	101.725	102.019	26.351	26.340	4834293.745	469770.527	28.274
503	442	0.400	98.929	102.696	20.968	20.951	4834294.959	469765.176	28.222
504	443	0.400	98.849	102.986	20.823	20.802	4834294.987	469765.027	28.133
505	444	0.400	112.014	102.734	20.193	20.176	4834290.855	469763.932	28.243
506	445	0.400	112.620	103.108	20.183	20.160	4834290.671	469763.875	28.125
507	446	0.400	118.463	103.100	20.276	20.253	4834288.860	469763.467	28.123
508	447	0.400	122.472	105.248	13.304	13.260	4834290.260	469756.538	28.014
509	448	0.400	98.215	103.726	19.186	19.155	4834295.193	469763.381	27.987
510	449	0.400	82.310	108.490	9.091	9.011	4834297.417	469752.957	27.901
511	450	0.400	88.466	113.995	5.736	5.598	4834296.042	469749.759	27.8

542	481	0.400	120.872	101.771	30.477	30.467	4834284.5	469772.789	28.262	608	664	0.700	192.986	101.898	17.965	17.958	4834257.664	469810.098	28.895
543										609	665	0.700	206.252	102.068	20.679	20.670	4834255.055	469806.023	28.759
544			Станция:		пт5(9)		Ih = 1.560			610	666	0.700	206.246	101.666	20.687	20.681	4834255.043	469806.024	28.889
545										611	667	0.700	206.808	101.646	24.695	24.689	4834251.096	469805.305	28.792
546	Име (клас	X		Y		H	O	V		612	668	0.700	215.253	101.871	24.421	24.412	4834252.016	469802.171	28.713
547	пт4(9)	4834295.185		469744.227		27.931	1.7598	-0.0018		613	669	0.700	215.342	102.157	24.406	24.394	4834252.042	469802.143	28.604
548	пт4(9)	4834295.185		469744.227		27.931	1.7589	-0.0009		614	670	0.700	223.999	102.370	24.222	24.207	4834253.309	469799.088	28.529
549	пт4(9)	4834295.185		469744.227		27.931	1.7554	0.0026		615	671	0.700	238.249	102.415	24.707	24.691	4834255.588	469794.102	28.494
550	пт8(9)	4834307.669		469811.257		27.910	1.7596	-0.0016		616	672	0.700	238.246	101.910	24.632	24.623	4834255.642	469794.143	28.692
551	пт8(9)	4834307.669		469811.257		27.910	1.7564	0.0016		617	673	0.700	235.155	102.600	22.401	22.384	4834256.836	469796.354	28.516
552	пт5(9)	4834275.562		469808.617		28.571	1.7580			618	674	0.700	235.307	102.004	22.411	22.402	4834256.851	469796.299	28.725
553										619	675	0.700	233.431	102.903	19.968	19.949	4834258.583	469798.144	28.520
554	Име (клас	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)	620	676	0.700	233.575	102.327	19.960	19.948	4834258.608	469798.106	28.701
555	пт4(9)	0.400	317.073	101.700	67.338	67.319	0.001	0.004		621	677	0.700	236.957	102.814	19.964	19.946	4834259.191	469797.222	28.548
	-0.002									622	678	0.700	236.891	102.291	20.003	19.992	4834259.142	469797.212	28.711
556	пт4(9)	0.400	317.074	101.700	67.336	67.317	0.000	0.002		623	679	0.700	241.444	102.018	29.094	29.081	4834252.923	469790.362	28.508
	-0.002									624	680	0.700	236.252	102.017	31.056	31.043	4834249.890	469791.165	28.447
557	пт4(9)	0.400	317.077	101.700	67.333	67.314	-0.002	-0.002		625	681	0.700	236.185	101.560	31.060	31.053	4834249.863	469791.186	28.670
	-0.003									626	682	0.700	234.260	101.364	32.530	32.525	4834248.105	469791.182	28.734
558	пт8(9)	0.400	3.462	103.584	32.266	32.217	-0.001	0.001		627	683	0.700	228.427	101.378	31.790	31.785	4834247.283	469794.105	28.743
	-0.005									628	684	0.700	226.186	101.053	37.374	37.372	4834241.733	469792.735	28.812
559	пт8(9)	0.400	3.466	103.584	32.265	32.216	0.000	-0.001		629	685	0.700	235.195	101.059	38.820	38.817	4834243.102	469787.330	28.785
	-0.005									630	686	0.700	236.272	100.956	43.295	43.293	4834239.766	469784.266	28.780
560	616	0.400	321.619	102.987	31.074	31.042	4834286.706	469779.645	28.273	631	687	0.700	235.250	100.756	45.150	45.150	4834237.828	469783.824	28.894
561	617	0.400	317.189	103.047	30.691	30.658	4834284.552	469779.307	28.262	632	688	0.700	230.658	100.828	42.725	42.724	4834238.257	469787.790	28.875
562	618	0.400	313.865	102.978	30.616	30.585	4834282.992	469778.949	28.299	633	689	0.700	220.419	101.088	36.904	36.901	4834240.877	469796.021	28.800
563	619	0.400	313.728	103.518	25.548	25.511	4834281.706	469783.858	28.319	634	690	0.700	214.397	101.331	31.043	31.038	4834245.517	469800.825	28.782
564	620	0.400	323.234	103.445	26.111	26.075	4834285.537	469784.526	28.318	635	691	0.700	214.988	101.818	29.201	29.191	4834247.374	469801.027	28.597
565	621	0.400	323.309	102.962	26.105	26.079	4834285.567	469784.534	28.516	636	692	0.700	214.878	101.473	29.248	29.242	4834247.312	469801.062	28.754
566	622	0.400	290.524	105.010	13.780	13.738	4834273.900	469794.980	28.647	637	693	0.700	210.742	101.482	26.293	26.288	4834249.779	469803.489	28.818
567	623	0.400	290.934	105.635	13.805	13.752	4834273.986	469794.956	28.510	638	694	0.700	211.313	101.150	34.217	34.214	4834242.066	469801.642	28.813
568	624	0.400	304.995	106.178	13.044	12.984	4834276.936	469795.707	28.467	639	695	0.700	214.198	101.086	36.657	36.654	4834240.052	469799.526	28.806
569	625	0.400	305.060	105.391	12.967	12.921	4834276.943	469795.770	28.634	640	696	0.700	214.093	100.916	41.188	41.187	4834235.645	469798.468	28.838
570	626	0.400	310.157	106.254	12.684	12.624	4834277.910	469796.214	28.487	641	697	0.700	219.906	100.562	41.375	41.376	4834236.558	469794.807	29.066
571	627	0.400	310.077	105.567	12.586	12.539	4834277.879	469796.295	28.631	642	698	0.700	219.907	100.974	39.853	39.851	4834237.996	469795.316	28.821
572	628	0.400	312.726	106.983	11.752	11.682	4834278.197	469797.236	28.444	643	699	0.700	219.940	100.641	39.883	39.884	4834237.972	469795.285	29.029
573	629	0.400	312.434	105.968	11.709	11.658	4834278.139	469797.247	28.635	644	700	0.700	225.616	100.917	40.374	40.373	4834238.864	469791.788	28.849
574	630	0.400	322.964	107.489	11.535	11.456	4834279.899	469798.014	28.377	645	701	0.700	225.547	100.642	40.443	40.444	4834238.781	469791.798	29.023
575	631	0.400	335.243	106.960	11.708	11.639	4834281.952	469798.890	28.453	646	702	0.700	225.291	100.758	41.771	41.771	4834237.504	469791.399	28.934
576	632	0.400	335.449	105.833	11.691	11.643	4834281.985	469798.907	28.661	647	703	0.700	213.855	100.755	42.659	42.659	4834234.179	469798.260	28.925
577	633	0.400	341.683	108.737	9.138	9.053	4834281.271	469801.592	28.480	648	704	0.700	220.492	101.125	35.968	35.965	4834241.771	469796.302	28.795
578	634	0.400	342.049	107.068	9.117	9.062	4834281.316	469801.618	28.720	649	705	0.700	221.312	100.285	31.901	31.903	4834245.731	469797.307	29.288
579	635	0.400	325.780	110.725	8.061	7.947	4834278.893	469801.402	28.379	650	706	0.700	215.167	101.463	34.137	34.130	4834242.630	469799.650	28.646
580	636	0.400	303.770	109.674	8.602	8.503	4834276.299	469800.146	28.428	651	707	0.700	211.734	101.844	23.243	23.235	4834252.846	469803.730	28.757
581	637	0.400	303.627	108.088	8.613	8.544	4834276.283	469800.104	28.639	652	708	0.700	203.604	113.240	4.139	4.050	4834271.526	469808.277	28.576
582	638	0.400	280.793	111.227	7.403	7.289	4834273.589	469801.601	28.432	653	709	0.700	12.824	103.925	28.207	28.155	4834302.982	469815.010	27.693
583	639	0.400	281.265	109.049	7.390	7.316	4834273.634	469801.560	28.684	654	710	0.700	8.076	103.482	30.006	29.963	4834305.168	469813.228	27.790
584	640	0.400	292.149	106.544	12.023	11.960	4834274.419	469796.712	28.497	655	711	0.700	398.803	103.124	32.010	31.974	4834307.534	469808.899	27.860
585	641	0.400	292.426	105.675	12.036	11.989	4834274.468	469796.678	28.659	656	712	0.700	396.600	103.671	28.961	28.915	4834304.467	469807.872	27.761
586	642	0.400	276.104	104.293	15.314	15.280	4834270.354	469794.252	28.699	657	713	0.700	399.306	103.966	27.038	26.988	4834302.545	469809.068	27.747
587	643	0.400	272.596	104.815	14.156	14.117	4834270.027	469795.631	28.661	658	714	0.700	391.362	105.388	17.139	17.079	4834292.541	469806.775	27.982
588	644	0.400	272.432	105.498	14.133	14.081	4834270.008	469795.677	28.512	659	715	0.700	385.390	105.381	16.170	16.113	4834291.348	469805.386	28.065
589	645	0.400	254.292	107.723	10.554	10.477	4834268.889	469800.539	28.453	660	716	0.700	373.328	106.164	12.931	12.871	4834287.460	469803.708	28.180
590	646	0.400	240.960	108.870	9.103	9.015	4834268.501	469803.012	28.466	661	717	0.700	376.231	106.822	10.856	10.795	4834285.717	469804.959	28.269
591	647	0.400	220.362	110.493	8.103	7.994	4834268.045	469805.895	28.401	662	718	0.700	373.989	107.358	9.815	9.750	4834284.613	469804.992	28.299
592	648	0.400	220.072	108.978	8.110	8.030	4834267.999	469805.917	28.591	663	719	0.700	367.587	107.969	8.584	8.517	4834283.110	469804.673	28.359
593	649	0.400	187.845	105.744	10.966	10.922	4834264.785	469810.393	28.743	664	720	0.700	392.744	121.158	3.106	2.936	4834278.487	469808.364	28.417
594	650	0.400	193.217</																

679	735	0.000	238.606	101.325	23.569	23.566	4834256.5	469794.657	29.640
680	736	0.000	208.600	98.367	13.413	13.410	4834262.329	469806.445	30.475
681	737	0.000	209.748	100.282	27.978	27.980	4834248.037	469803.588	30.007
682	738	0.000	28.229	110.996	7.167	7.061	4834281.853	469811.822	28.899
683	739	0.000	21.483	103.707	24.938	24.898	4834298.818	469817.506	28.679
684	740	0.000	360.000	106.696	10.161	10.106	4834283.898	469802.905	29.064
685	741	0.000	341.549	104.610	16.535	16.493	4834285.936	469795.796	28.934
686	742	0.000	331.145	104.595	18.662	18.615	4834284.760	469792.434	28.785
687	743	0.000	296.184	108.801	9.847	9.754	4834275.246	469798.869	28.774

688	Станция: пт6(9) Ih = 1.426								
689	-----								
690	Име (клас)	X	Y	H	O	V			
691	пт4(9)	4834295.185	469744.227	27.931	1.7597	-0.0004			
692	пт4(9)	4834295.185	469744.227	27.931	1.7594	-0.0001			
693	пт4(9)	4834295.185	469744.227	27.931	1.7588	0.0005			
694	пт6(9)	4834259.143	469742.240	28.593	1.7593				
695									
696	Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
697	пт4(9)	0.400	1.747	102.973	36.133	36.096	0.001	0.000	
698	-0.002								
699	пт4(9)	0.400	1.747	102.973	36.133	36.096	0.001	0.000	
	-0.002								
700	пт4(9)	0.400	1.747	102.973	36.136	36.099	-0.002	-0.000	
	-0.002								
701	545	0.400	70.221	105.321	13.626	13.579	4834264.929	469754.525	28.482
702	546	0.400	70.567	105.975	13.651	13.592	4834264.867	469754.567	28.340
703	547	0.400	82.029	106.993	12.336	12.263	4834262.232	469754.107	28.267
704	548	0.400	96.346	107.148	11.085	11.016	4834259.471	469753.251	28.377
705	549	0.400	96.598	105.967	11.090	11.042	4834259.428	469753.278	28.581
706	550	0.400	106.467	105.584	10.654	10.614	4834257.776	469752.765	28.686
707	551	0.400	140.077	104.932	11.162	11.129	4834252.345	469751.051	28.755
708	552	0.400	153.255	103.246	14.756	14.738	4834247.934	469751.809	28.867
709	553	0.400	162.670	103.873	12.251	12.229	4834248.774	469748.723	28.874
710	554	0.400	188.970	105.329	9.162	9.131	4834250.109	469743.565	28.853
711	555	0.400	190.277	111.962	4.825	4.740	4834254.440	469742.831	28.718
712	556	0.400	283.730	104.562	11.890	11.860	4834256.463	469730.686	28.768
713	557	0.400	264.522	103.501	14.695	14.674	4834251.730	469729.576	28.811
714	558	0.400	240.371	102.178	20.396	20.386	4834243.061	469729.712	28.922
715	559	0.400	229.717	102.838	19.017	18.999	4834242.419	469733.224	28.772
716	560	0.400	239.455	101.943	24.027	24.018	4834239.986	469727.754	28.886
717	561	0.400	307.496	104.434	12.579	12.549	4834260.961	469729.823	28.744
718	562	0.400	325.025	104.583	12.809	12.777	4834264.362	469730.577	28.698
719	563	0.400	329.147	103.559	15.451	15.428	4834266.342	469728.594	28.756
720	564	0.400	364.191	103.315	19.305	19.280	4834275.731	469732.412	28.614
721	565	0.400	366.647	103.726	18.194	18.164	4834275.116	469733.591	28.555
722	566	0.400	366.494	103.242	18.183	18.161	4834275.092	469733.554	28.694
723	567	0.400	363.624	103.327	19.104	19.079	4834275.471	469732.369	28.621
724	568	0.400	363.529	102.939	19.080	19.061	4834275.440	469732.354	28.739
725	569	0.400	359.917	104.097	16.370	16.337	4834272.609	469732.988	28.567
726	570	0.400	359.833	103.440	16.375	16.352	4834272.609	469732.962	28.735
727	571	0.400	367.308	102.858	22.920	22.899	4834279.392	469731.546	28.591
728	572	0.400	11.959	107.322	10.229	10.162	4834269.070	469744.412	28.445
729	573	0.400	176.897	110.630	4.725	4.660	4834254.743	469743.773	28.834
730	574	0.400	110.588	103.362	15.138	15.118	4834256.230	469757.074	28.820
731	575	0.400	81.394	101.929	32.096	32.084	4834267.535	469773.206	28.647
732	576	0.400	83.131	102.630	29.131	29.108	4834265.987	469770.532	28.416
733	577	0.400	93.413	102.946	26.984	26.957	4834261.186	469769.119	28.371
734	578	0.400	98.843	103.011	26.203	26.176	4834258.895	469768.414	28.380
735	579	0.400	106.614	103.128	25.867	25.838	4834255.755	469767.854	28.349
736	580	0.400	106.709	102.490	25.887	25.869	4834255.712	469767.880	28.607
737	581	0.400	110.867	102.187	26.107	26.093	4834254.002	469767.822	28.722
738	582	0.400	107.535	102.561	24.811	24.793	4834255.537	469766.769	28.621
739	583	0.400	115.252	102.846	19.400	19.382	4834254.026	469760.934	28.752
740	585	0.400	109.954	102.929	20.010	19.990	4834255.486	469761.892	28.699
741	586	0.400	126.826	102.631	20.191	20.175	4834250.386	469760.415	28.785
742	587	0.400	128.186	102.339	20.839	20.826	4834249.704	469760.804	28.854
743	588	0.400	126.206	102.180	24.199	24.187	4834248.857	469764.130	28.791
744	589	0.400	132.530	101.800	24.466	24.458	4834246.598	469763.235	28.927
745	590	0.400	131.392	102.438	20.488	20.474	4834248.957	469760.000	28.835
746	591	0.400	131.538	101.738	20.449	20.443	4834248.932	469759.949	29.061

747	592	0.400	133.606	102.286	20.697	20.685	4834248.234	469759.814	28.876
748	593	0.400	135.027	102.982	17.021	17.004	4834249.856	469756.483	28.822
749	594	0.400	135.027	102.238	17.028	17.019	4834249.847	469756.495	29.021
750	595	0.400	140.145	102.746	17.512	17.497	4834248.440	469756.081	28.864
751	596	0.400	131.971	103.286	16.057	16.037	4834251.039	469756.078	28.791
752	597	0.400	128.595	103.295	16.484	16.463	4834251.588	469756.867	28.766
753	598	0.400	108.750	103.739	16.089	16.062	4834256.504	469758.084	28.675
754	599	0.400	62.668	104.535	17.888	17.844	4834268.603	469757.369	28.346
755	600	0.400	62.544	104.127	17.828	17.792	4834268.605	469757.307	28.464
756	601	0.400	66.140	104.021	20.444	20.405	4834269.002	469760.105	28.329
757	602	0.400	88.218	103.721	21.813	21.777	4834262.558	469763.748	28.345
758	603	0.400	98.852	102.135	36.368	36.350	4834258.794	469778.588	28.400
759	604	0.400	101.981	102.137	36.100	36.082	4834257.025	469778.260	28.408
760	605	0.400	108.661	102.011	35.956	35.941	4834253.287	469777.700	28.484
761	606	0.400	108.724	101.735	35.897	35.886	4834253.261	469777.640	28.641
762	607	0.400	111.511	101.623	34.824	34.815	4834251.938	469776.301	28.732
763	608	0.400	126.697	101.261	35.267	35.263	4834243.901	469774.038	28.921
764	609	0.400	128.325	101.348	31.632	31.627	4834244.748	469770.401	28.950
765	610	0.400	131.155	101.175	31.975	31.972	4834243.340	469770.033	29.029
766	611	0.400	132.574	101.348	29.470	29.466	4834244.012	469767.523	28.995
767	612	0.400	123.136	101.300	38.716	38.711	4834244.388	469778.028	28.829
768	613	0.400	123.142	100.899	38.640	38.639	4834244.412	469777.960	29.074
769	614	0.400	124.445	100.881	38.763	38.762	4834243.635	469777.764	29.083
770	615	0.400	125.442	101.320	35.176	35.171	4834244.569	469774.249	28.890

771	Станция: пт7(9) Ih = 1.600								
772	-----								
773	Име (клас)	X	Y	H	O	V			
774	пт4 (9)	4834295.185	469744.227	27.931	1.7597	-0.0005			
775	пт4 (9)	4834295.185	469744.227	27.931	1.7594	-0.0002			
776	пт4 (9)	4834295.185	469744.227	27.931	1.7584	0.0008			
777	пт7 (9)	4834221.046	469731.466	28.992	1.7592				
778									
779	Име (клас)	Th	R	Z	S	D	X (Vx)	Y (Vy)	H (Vh)
781	пт4 (9)	0.400	9.091	101.914	75.258	75.229	0.000	0.001	
	0.001								
782	пт4 (9)	0.400	9.092	101.915	75.254	75.225	0.004	0.001	
	0.001								
783	пт4 (9)	0.400	9.093	101.914	75.256	75.227	0.002	-0.001	
	0.001								
784	482	0.400	14.569	102.327	48.976	48.947	4834268.392	469743.883	28.403
785	483	0.400	14.504	102.471	48.977	48.944	4834268.401	469743.834	28.292
786	484	0.400	16.920	102.222	48.188	48.162	4834267.150	469745.395	28.511
787	485	0.400	16.901	102.406	48.154	48.123	4834267.117	469745.370	28.373
788	486	0.400	7.879	102.384	47.258	47.228	4834267.734	469738.589	28.423
789	487	0.400	7.908	102.533	47.261	47.227	4834267.730	469738.610	28.313
790	488	0.400	11.754	102.623	44.843	44.808	4834264.849	469740.906	28.345
791	489	0.400	7.072	102.616	39.076	39.046	4834259.717	469736.865	28.588
792	490	0.400	7.117	102.798	39.082	39.047	4834259.714	469736.892	28.475
793	491	0.400	11.495	102.904	38.972	38.934	4834259.140	469739.513	28.415
794	492	0.400	15.440	102.845	39.342	39.306	4834258.926	469741.956	28.435
795	493	0.400	15.513	102.609	39.392	39.362	4834258.968	469742.015	28.579
796	494	0.400	19.177	102.501	39.446	39.418	4834258.352	469744.197	28.643
797	495	0.400	18.015	102.469	41.682	41.654	4834260.707	469744.197	28.577
798	496	0.400	17.942	102.698	41.723	41.689	4834260.754	469744.162	28.425
799	497	0.400	21.518	102.377	42.873	42.846	4834261.060	469746.785	28.592
800	498	0.400	21.687	102.421	40.933	40.906	4834259.210	469746.193	28.637
801	499	0.400	19.700	102.807	32.712	32.683	4834251.890	469742.275	28.751
802	500	0.400	16.051	102.957	32.599	32.566	4834252.346	469740.458	28.679
803	501	0.400	15.934	103.177	32.593	32.555	4834252.352	469740.398	28.567
804	502	0.400	11.341	103.227	32.022	31.983	4834252.355	469738.001	28.570
805	503	0.400	6.092	102.994	31.984	31.951	4834252.755	469735.396	28.689
806	504	0.400	3.310	103.894	20.962	20.924	4834241.904	469733.130	28.911
807	505	0.400	3.377	104.267	20.954	20.908	4834241.887	469733.151	28.789
808	506	0.400	18.574	104.507	20.509	20.459	4834240.471	469737.890	28.742
809	507	0.400	18.729	104.100	20.500	20.459	4834240.455	469737.937	28.873
810	508	0.400	28.057	103.667	21.147	21.113	4834239.886	469740.997	28.975
811	509	0.400	33.588	106.125	11.558	11.505	4834230.823	469737.531	29.082
812	510	0.400	25.037	106.445	11.135	11.079	4834231.158	469735.993	29.067
813	511	0.400	24.581	107.098	11.136	11.068	4834231.180	469735.916	28.953
814	512	0.400	11.150	107.589	10.403	10.330	4834231.165	469733.546	28.955

815	513	0.400	395.180	107.379	10.617	10.547	4834231.5	469730.959	28.965
816	514	0.400	395.019	106.485	10.622	10.568	4834231.600	469730.931	29.112
817	515	0.400	390.781	108.764	8.443	8.364	4834229.353	469730.488	29.034
818	516	0.400	29.522	109.405	8.328	8.238	4834228.310	469735.353	28.967
819	517	0.400	50.951	114.583	5.293	5.155	4834224.533	469735.263	28.991
820	518	0.400	52.021	112.185	5.402	5.304	4834224.567	469735.432	29.165
821	519	0.400	88.485	111.120	6.794	6.691	4834222.068	469738.079	29.012
822	520	0.400	87.329	109.629	6.886	6.808	4834222.207	469738.174	29.155
823	521	0.400	118.257	111.580	6.502	6.395	4834219.069	469737.548	29.016
824	522	0.400	146.011	110.481	7.185	7.088	4834216.213	469736.651	29.015
825	523	0.400	146.446	109.007	7.181	7.110	4834216.163	469736.633	29.180
826	524	0.400	164.349	112.391	6.224	6.107	4834215.784	469734.566	28.989
827	525	0.400	164.488	110.878	6.230	6.140	4834215.749	469734.571	29.133
828	526	0.400	183.665	110.620	7.120	7.022	4834214.208	469733.059	29.010
829	527	0.400	183.332	109.147	7.118	7.045	4834214.193	469733.101	29.173
830	528	0.400	239.083	110.305	7.217	7.123	4834215.339	469727.203	29.029
831	529	0.400	239.175	109.023	7.245	7.173	4834215.306	469727.165	29.169
832	530	0.400	252.968	112.762	5.945	5.826	4834217.243	469727.052	29.009
833	531	0.400	254.137	111.297	5.934	5.841	4834217.316	469726.971	29.145
834	532	0.400	278.308	111.283	6.782	6.676	4834218.990	469725.114	28.997
835	533	0.400	278.333	109.432	6.827	6.753	4834218.969	469725.041	29.185
836	534	0.400	311.865	111.717	6.365	6.258	4834222.375	469725.351	29.028
837	535	0.400	337.674	111.312	6.983	6.874	4834225.037	469725.869	28.958
838	536	0.400	337.951	110.550	6.941	6.846	4834225.045	469725.909	29.048
839	537	0.400	353.734	114.674	5.372	5.230	4834225.050	469728.100	28.965
840	538	0.400	378.898	113.070	6.085	5.958	4834226.731	469729.683	28.952
841	539	0.400	379.049	111.826	6.112	6.007	4834226.783	469729.682	29.064
842	540	0.400	8.998	123.565	3.457	3.223	4834224.223	469732.008	28.942
843	541	0.400	71.469	115.441	5.135	4.985	4834223.081	469736.017	28.959
844	542	0.400	175.539	112.358	6.214	6.098	4834215.332	469733.595	28.994
845	543	0.400	268.600	114.159	5.457	5.323	4834218.656	469726.710	28.989
846	544	0.400	353.367	115.344	5.177	5.028	4834224.876	469728.208	28.957
847									
848	Станция: пт8(9) Ih = 1.588								
849	-----								
850	Име (клас)	X	Y	H	O	V			
851	пт5(9)	4834275.562	469808.617	28.571	1.7594	-0.0011			
852	пт5(9)	4834275.562	469808.617	28.571	1.7569	0.0014			
853	пт5(9)	4834275.562	469808.617	28.571	1.7585	-0.0002			
854	пт8(9)	4834307.669	469811.257	27.910	1.7583				
855									
856	Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
857	пт5(9)	0.700	203.463	100.442	32.216	32.217	0.001	-0.000	
	-0.004								
858	пт5(9)	0.700	203.465	100.444	32.212	32.213	-0.003	0.000	
	-0.003								
859	пт5(9)	0.700	203.464	100.442	32.215	32.216	0.000	-0.000	
	-0.004								
860	744	0.700	157.358	110.423	6.842	6.751	4834302.263	469815.301	27.683
861	745	0.700	162.335	110.796	6.689	6.594	4834302.097	469814.782	27.669
862	746	0.700	124.749	105.019	16.212	16.163	4834301.132	469826.039	27.521
863	747	0.700	119.959	103.590	23.644	23.608	4834299.771	469833.505	27.465
864	748	0.700	111.330	103.244	28.947	28.912	4834301.767	469839.560	27.324
865	749	0.700	103.002	101.931	47.510	47.492	4834304.121	469858.616	27.357
866	750	0.700	107.475	102.186	47.143	47.119	4834300.860	469857.881	27.180
867	751	0.700	116.995	102.106	46.877	46.855	4834294.066	469856.094	27.248
868	752	0.700	126.121	101.992	48.054	48.034	4834287.300	469854.758	27.295
869	753	0.700	128.666	102.326	39.958	39.934	4834289.303	469846.717	27.338
870	754	0.700	131.557	102.686	31.879	31.853	4834291.751	469838.847	27.454
871	755	0.700	121.834	103.119	28.831	28.799	4834297.240	469838.100	27.386
872	756	0.700	109.966	103.329	28.640	28.603	4834302.431	469839.376	27.301
873	757	0.700	99.692	103.142	29.406	29.372	4834307.000	469840.622	27.347
874	758	0.700	99.732	101.771	29.335	29.326	4834306.983	469840.575	27.982
875	759	0.700	98.380	102.272	21.765	21.753	4834307.622	469833.010	28.022
876	760	0.700	114.783	104.107	21.193	21.150	4834302.235	469831.697	27.432
877	761	0.700	128.564	103.671	21.874	21.839	4834297.656	469830.665	27.537
878	762	0.700	95.125	102.544	17.779	17.766	4834308.539	469829.002	28.088
879	763	0.700	119.920	104.899	17.154	17.104	4834301.957	469827.379	27.479
880	764	0.700	134.333	104.401	17.093	17.053	4834298.511	469825.643	27.617
881	765	0.700	156.459	104.379	14.649	14.615	4834296.090	469820.175	27.791
882	766	0.700	135.729	106.944	10.857	10.793	4834301.675	469820.232	27.616

883	767	0.700	117.675	106.315	10.237	10.187	4834304.608	469820.973	27.784
884	768	0.700	80.445	106.391	7.641	7.603	4834309.767	469818.565	28.032
885	769	0.700	118.551	109.324	6.779	6.707	4834305.566	469817.625	27.809
886	770	0.700	145.895	109.693	7.826	7.736	4834302.404	469816.925	27.611
887	771	0.700	177.430	113.210	5.465	5.348	4834302.604	469812.974	27.672
888	772	0.700	62.611	111.575	4.010	3.944	4834309.763	469814.599	28.073
889	773	0.700	278.755	106.185	8.978	8.936	4834304.976	469802.736	27.927
890	774	0.700	241.532	112.376	5.392	5.291	4834303.555	469807.930	27.756
891									
892			Станция:		лт3(9)		Ih = 1.592		
893									
894	Име (клас)		X	Y		H	O	V	
895	пт2(8)	4834998.896		470184.628		26.835	1.7591	0.0010	
896	пт2(8)	4834998.896		470184.628		26.835	1.7591	0.0010	
897	пт2(8)	4834998.896		470184.628		26.835	1.7621	-0.0020	
898	лт3(9)	4834965.888		470175.944		26.877	1.7601		
899									
900	Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
901	пт2(8)	0.400	14.619	102.300	34.150	34.130	0.001	-0.000	
	-0.001								
902	пт2(8)	0.400	14.619	102.300	34.152	34.132	-0.001	-0.001	
	-0.001								
903	пт2(8)	0.400	14.616	102.300	34.154	34.134	-0.003	0.000	
	-0.001								
904	245	0.400	22.550	102.994	27.594	27.565	4834991.468	470186.216	26.772
905	246	0.400	22.598	102.753	27.586	27.562	4834991.457	470186.234	26.877
906	247	0.400	59.195	102.630	26.994	26.973	4834981.413	470198.001	26.954
907	248	0.400	67.491	102.677	24.632	24.612	4834977.319	470197.740	27.034
908	249	0.400	52.783	104.311	20.547	20.501	4834979.314	470191.437	26.679
909	250	0.400	90.691	104.914	14.607	14.565	4834967.611	470190.406	26.943
910	251	0.400	87.827	105.473	13.551	13.502	4834968.087	470189.265	26.906
911	252	0.400	93.048	105.725	12.908	12.857	4834966.935	470188.758	26.910
912	253	0.400	95.895	105.240	14.008	13.962	4834966.402	470189.896	26.917
913	254	0.400	101.378	111.839	7.227	7.103	4834965.538	470183.038	26.733
914	255	0.400	69.447	111.834	7.204	7.080	4834968.982	470182.312	26.738
915	256	0.400	8.145	114.362	6.164	6.008	4834971.824	470176.875	26.690
916	257	0.400	119.485	106.623	11.205	11.145	4834962.237	470186.474	26.906
917	258	0.400	118.263	107.599	10.013	9.942	4834962.812	470185.398	26.877
918	259	0.400	126.283	107.576	9.879	9.810	4834961.705	470184.817	26.896
919	260	0.400	126.578	106.903	11.122	11.057	4834961.127	470185.924	26.866
920	261	0.400	316.755	108.528	8.963	8.883	4834968.435	470167.433	26.872
921	262	0.400	315.089	109.811	7.769	7.677	4834967.896	470168.533	26.877
922	263	0.400	325.540	109.900	7.678	7.586	4834969.042	470169.045	26.880
923	264	0.400	325.481	108.480	8.894	8.816	4834969.546	470167.923	26.888
924	265	0.400	323.151	102.733	26.861	26.838	4834976.124	470151.134	26.916
925	266	0.400	326.111	102.696	26.826	26.804	4834977.252	470151.668	26.934
926	267	0.400	326.081	103.004	25.616	25.589	4834976.726	470152.762	26.861
927	269	0.400	318.144	102.258	32.220	32.202	4834975.793	470145.303	26.927
928	270	0.400	320.134	102.571	28.311	28.290	4834975.427	470149.310	26.926
929	271	0.400	319.204	102.890	24.899	24.875	4834973.932	470152.405	26.939
930	272	0.400	324.631	102.917	25.349	25.324	4834976.088	470152.764	26.908
931	273	0.400	315.783	102.687	24.975	24.955	4834972.678	470151.931	27.015
932	274	0.400	313.886	103.246	21.355	21.329	4834971.077	470155.256	26.981
933	275	0.400	309.496	103.053	21.685	21.662	4834969.698	470154.620	27.030
934	276	0.400	297.216	110.511	7.130	7.034	4834965.775	470168.911	26.897
935	277	0.400	289.466	109.261	7.611	7.531	4834964.853	470168.484	26.966
936	278	0.400	260.707	114.960	4.998	4.861	4834963.185	470171.903	26.906
937	279	0.400	252.243	111.286	6.237	6.140	4834961.828	470171.338	26.969
938	280	0.400	211.820	111.514	5.900	5.804	4834960.215	470174.715	27.008
939	281	0.400	206.962	116.414	4.607	4.455	4834961.475	470175.335	26.895
940	282	0.400	171.765	110.867	6.615	6.519	4834959.924	470178.577	26.946
941	283	0.400	159.097	113.033	5.792	5.671	4834961.255	470179.215	26.892
942	284	0.400	145.851	107.835	9.246	9.177	4834959.647	470182.671	26.934
943	285	0.400	139.324	108.483	9.028	8.949	4834960.506	470183.093	26.870
944	286	0.400	138.497	106.421	10.438	10.386	4834959.750	470184.321	27.018
945	287	0.400	135.216	105.926	12.281	12.229	4834959.178	470186.167	26.928
946	288	0.400	137.536	105.623	12.488	12.440	4834958.688	470186.088	26.968
947	289	0.400	134.506	104.779	14.992	14.951	4834957.824	470188.533	26.945
948	290	0.400	104.726	104.191	15.702	15.669	4834964.294	470191.531	27.036
949	291	0.400	101.236	105.422	13.559	13.511	4834965.252	470189.439	26.916
950	292	0.400	94.227	104.507	14.221	14.186	4834966.782	470190.102	27.063

951	293	0.400	86.470	104.581	15.345	15.306	4834968.7	470190.989	26.966
952	294	0.400	88.365	104.296	16.164	16.128	4834968.380	470191.878	26.979
953	295	0.400	65.745	104.819	16.148	16.103	4834973.755	470189.994	26.848
954	296	0.400	65.589	105.681	16.160	16.097	4834973.787	470189.969	26.629
955	297	0.400	55.435	106.239	15.074	15.003	4834975.233	470187.681	26.594
956	298	0.400	46.984	106.256	14.546	14.477	4834976.325	470185.976	26.642
957	299	0.400	27.535	106.281	13.980	13.913	4834978.354	470182.122	26.692
958	300	0.400	27.365	105.513	14.002	13.951	4834978.404	470182.106	26.858
959	301	0.400	18.425	105.590	13.675	13.623	4834978.832	470180.191	26.870
960	302	0.400	18.259	106.319	13.706	13.640	4834978.859	470180.162	26.711
961	303	0.400	15.212	108.760	10.120	10.025	4834975.559	470178.585	26.681
962	304	0.400	15.158	107.580	10.051	9.981	4834975.518	470178.565	26.875
963	305	0.400	391.470	107.782	11.756	11.669	4834977.491	470174.705	26.636
964	306	0.400	388.607	108.570	10.571	10.476	4834976.244	470174.364	26.651
965	307	0.400	388.663	107.155	10.487	10.422	4834976.192	470174.382	26.893
966	308	0.400	384.611	110.527	8.748	8.629	4834974.320	470174.110	26.629
967	309	0.400	384.967	108.696	8.734	8.653	4834974.354	470174.152	26.880
968	310	0.400	386.673	113.025	6.890	6.747	4834972.524	470174.724	26.669
969	311	0.400	386.966	111.190	6.873	6.768	4834972.550	470174.751	26.867
970	312	0.400	397.835	115.943	5.530	5.358	4834971.246	470175.909	26.699
971	313	0.400	398.028	113.844	5.529	5.399	4834971.287	470175.926	26.876
972	314	0.400	387.805	122.451	3.996	3.750	4834969.588	470175.332	26.689
973	315	0.400	41.346	116.295	5.366	5.192	4834969.934	470179.196	26.711
974	316	0.400	41.574	113.969	5.370	5.242	4834969.962	470179.242	26.900
975	317	0.400	55.285	112.650	7.195	7.054	4834970.295	470181.452	26.649
976	318	0.400	55.183	110.717	7.184	7.083	4834970.322	470181.467	26.866
977	319	0.400	52.735	108.139	10.692	10.606	4834972.840	470183.953	26.706
978	320	0.400	52.651	107.185	10.640	10.573	4834972.829	470183.920	26.871
979	321	0.400	27.761	107.959	9.867	9.791	4834974.645	470180.323	26.839
980	322	0.400	27.848	109.073	9.945	9.845	4834974.687	470180.359	26.657
981	323	0.400	95.640	111.245	8.095	7.970	4834966.213	470183.907	26.647
982	324	0.400	117.019	108.853	9.544	9.453	4834963.140	470184.988	26.746
983	325	0.400	118.132	108.112	9.479	9.403	4834962.998	470184.891	26.865

21. Оценка на точността от нормираните поправки от абриса на геодезическата снимка

Максимално [несъвпадение, поправка, разлика]	-21.1 [cc]
Минимално [несъвпадение, поправка, разлика]	-0.0 [cc]
Средно аритметична стойност [pw]/n	0.5 [cc]
Вероятна грешка pw [i] (i=n/2)	2.8 [cc]
Средно аритметична грешка [pw]/n	3.6 [cc]
Асиметрия ((pw^3)/n)/(m^3)	0.6 [cc]
Ексцес ((pw^4)/n)/(m^4)-3	0.5 [cc]
Средна квадратна грешка за единица тежест	5.0 [cc]
СКГ за ед. тежест от всички несъвпадения	5.9 [cc]
m : s : r = 1 : 0.80 : 0.67 = 1: 0.72 : 0.55	
Брой на допустимите разлики n	43
Брой на недопустимите разлики m	1
Брой на положителните грешки	20
Брой на отрицателните грешки	23
Брой на разликите (положителни-отрицателни)	-3
Брой на допустимите разлики (при дов.в.96%)	12

22. Оценка на точността от координатните разлики dx на геодезическата снимка

Максимално [несъвпадение, поправка, разлика]	-6.1 [mm]
Минимално [несъвпадение, поправка, разлика]	0.1 [mm]
Средно аритметична стойност [pw]/n	-0.1 [mm]
Вероятна грешка pw [i] (i=n/2)	1.1 [mm]
Средно аритметична грешка [pw]/n	1.6 [mm]
Асиметрия ((pw^3)/n)/(m^3)	-0.4 [mm]
Ексцес ((pw^4)/n)/(m^4)-3	0.7 [mm]
Средна квадратна грешка за единица тежест	2.3 [mm]
СКГ за ед. тежест от всички несъвпадения	2.3 [mm]

m : s : r = 1 : 0.80 : 0.67 = 1: 0.72 : 0.49	
Брой на допустимите разлики n	44
Брой на недопустимите разлики m	0
Брой на положителните грешки	26
Брой на отрицателните грешки	18
Брой на разликите (положителни-отрицателни)	8
Брой на допустимите разлики (при дов.в.96%)	12

23. Оценка на точността от координатните разлики dy на геодезическата снимка

Максимално [несъвпадение, поправка, разлика]	11.6 [mm]
Минимално [несъвпадение, поправка, разлика]	0.0 [mm]
Средно аритметична стойност [pw]/n	0.1 [mm]
Вероятна грешка pw [i] (i=n/2)	0.6 [mm]
Средно аритметична грешка [pw]/n	1.0 [mm]
Асиметрия ((pw^3)/n)/(m^3)	0.6 [mm]
Ексцес ((pw^4)/n)/(m^4)-3	2.1 [mm]
Средна квадратна грешка за единица тежест	1.6 [mm]
СКГ за ед. тежест от всички несъвпадения	3.6 [mm]
m : s : r = 1 : 0.80 : 0.67 = 1: 0.64 : 0.35	
Брой на допустимите разлики n	39
Брой на недопустимите разлики m	5
Брой на положителните грешки	20
Брой на отрицателните грешки	19
Брой на разликите (положителни-отрицателни)	1
Брой на допустимите разлики (при дов.в.96%)	12

24. Оценка на точността от координатните разлики dh на геодезическата снимка

Максимално [несъвпадение, поправка, разлика]	-40.2 [mm]
Минимално [несъвпадение, поправка, разлика]	1.5 [mm]
Средно аритметична стойност [pw]/n	-6.9 [mm]
Вероятна грешка pw [i] (i=n/2)	5.1 [mm]
Средно аритметична грешка [pw]/n	9.7 [mm]
Асиметрия ((pw^3)/n)/(m^3)	-1.5 [mm]
Ексцес ((pw^4)/n)/(m^4)-3	2.2 [mm]
Средна квадратна грешка за единица тежест	14.2 [mm]
СКГ за ед. тежест от всички несъвпадения	14.2 [mm]
m : s : r = 1 : 0.80 : 0.67 = 1: 0.68 : 0.36	
Брой на допустимите разлики n	44
Брой на недопустимите разлики m	0
Брой на положителните грешки	33
Брой на отрицателните грешки	11
Брой на разликите (положителни-отрицателни)	22
Брой на допустимите разлики (при дов.в.96%)	12

Обработено:
/инж. В. Ст.

Височинна система EVRS2007

Координатна система БГС-2005

обект: "Изграждане на тротоари и междублокови пространства
от о.т. 667 през о.т. 669 - о.т. 672 - о.т. 671 - о.т. 670 в стр. кв. 15 - гр. Белене"

Община Белене
Област Плевен

