

Załącznik 5.1 - Zestawienie elementów geometrycznych w planie oraz parametrów kinematycznych projektowanego toru nr 1 dla $V_p = 100\text{km/h}$ i $V_t = 60\text{km/h}$

Nr elementu poziom.	Projektowany Km Linii 229	V_p [km/h]	V_t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a_p [mm/s ²]	a_t [mm/s ²]	Niedom. h_p [mm]	Nadmiar h_t [mm]	L_{KP} [m]	Ψ_p [mm/s ³]	Ψ_t [mm/s ³]	Zmiana h_p [mm/s]	Zmiana nied. h_p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
1	42+019.650	100	60	4000	20	0.06	-0.06	9.5	9.4							
	42+148.058	100	60							30	-0.06	0.03	18.5	8.8	1500	0.67
2	42+178.058	100	60	0	0	0.00	0.00	0.0	0.0							
	42+178.058	100	60							30	0.06	-0.03	18.5	8.8	1500	0.67
3	42+208.058	100	60	-4000	20	0.06	-0.06	9.5	9.4							
	42+260.521	100	60							30	-0.06	0.03	18.5	8.8	1500	0.67
4	42+290.521	100	60	0	0	0.00	0.00	0.0	0.0							
	42+774.692	100	60							80	0.28	-0.06	48.6	43.5	571	1.75
5	42+854.692	100	60	-445	140	0.82	-0.29	125.2	44.5							
	43+396.171	100	60							80	-0.28	0.06	48.6	43.5	571	1.75
6	43+476.171	100	60	0	0	0.00	0.00	0.0	0.0							
	43+531.291	100	60							37	0.28	-0.05	45.0	43.6	617	1.62
7	43+568.291	100	60	1000	60	0.38	-0.11	58.0	17.5							
	43+608.583	100	60							37	-0.28	0.05	45.0	43.6	617	1.62
8	43+645.583	100	60	0	0	0.00	0.00	0.0	0.0							
	43+897.661	100	60							35	0.20	0.04	0.0	31.2	0	0.00
9	43+932.661	100	60	-3000	0	0.26	0.09	39.3	-14.2							
	43+932.662	100	60							35	-0.20	-0.04	0.0	31.2	0	0.00
10	43+967.662	100	60	0	0	0.00	0.00	0.0	0.0							
	43+967.662	100	60							84	0.28	-0.06	49.6	42.2	560	1.79
11	44+051.662	100	60	425	150	0.83	-0.33	127.7	50.0							
	44+251.994	100	60							84	-0.28	0.06	49.6	42.2	560	1.79
12	44+335.994	100	60	0	0	0.00	0.00	0.0	0.0							
	44+335.994	100	60							84	0.28	-0.06	49.6	42.2	560	1.79
13	44+419.994	100	60	-425	150	0.83	-0.33	127.7	50.0							
	44+743.169	100	60							84	-0.28	0.06	49.6	42.2	560	1.79
14	44+827.169	100	60	0	0	0.00	0.00	0.0	0.0							
	44+827.169	100	60							60	0.30	-0.05	46.3	46.3	600	1.67
15	44+887.169	100	60	-590	100	0.65	-0.18	100.0	28.0							
	44+927.169	100	60							60	-0.30	0.05	46.3	46.3	600	1.67
16	44+987.169	100	60	0	0	0.00	0.00	0.0	0.0							
	44+987.170	100	60							30	0.22	0.05	0.0	34.2	0	0.00
17	45+017.170	100	60	3200	0	0.24	0.09	36.9	-13.3							
	45+017.170	100	60							30	-0.22	-0.05	0.0	34.2	0	0.00
18	45+047.170	100	60	0	0	0.00	0.00	0.0	0.0							
	45+184.020	100	60							75	0.29	-0.05	44.4	44.8	625	1.60

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
19	45+259.020	100	60	490	120	0.79	-0.22	120.9	33.3							
	45+300.558	100	60							75	-0.29	0.05	44.4	44.8	625	1.60
20	45+375.558	100	60	0	0	0.00	0.00	0.0	0.0							
	46+094.781	100	60							80	0.29	-0.04	41.7	43.7	667	1.50
21	46+174.781	100	60	-480	120	0.82	-0.21	125.9	31.5							
	46+232.729	100	60							80	-0.29	0.04	41.7	43.7	667	1.50
22	46+312.729	100	60	0	0	0.00	0.00	0.0	0.0							
	46+602.223	100	60							50	0.33	-0.05	47.2	50.6	588	1.70
23	46+652.223	100	60	-670	85	0.60	-0.14	91.2	21.6							
	46+696.570	100	60							50	-0.33	0.05	47.2	50.6	588	1.70
24	46+746.570	100	60	0	0	0.00	0.00	0.0	0.0							
	46+890.165	100	60							85	0.26	-0.06	45.8	40.0	607	1.65
25	46+975.165	100	60	-450	140	0.80	-0.30	122.3	45.6							
	47+349.246	100	60							85	-0.26	0.06	45.8	40.0	607	1.65
26	47+434.246	100	60	0	0	0.00	0.00	0.0	0.0							
	47+434.246	100	60							65	0.29	-0.04	42.7	44.2	650	1.54
27	47+499.246	100	60	580	100	0.68	-0.17	103.5	26.7							
	47+855.281	100	60							65	-0.29	0.04	42.7	44.2	650	1.54
28	47+920.281	100	60	0	0	0.00	0.00	0.0	0.0							
	47+984.712	100	60							60	0.31	-0.05	46.3	47.1	600	1.67
29	48+044.712	100	60	585	100	0.67	-0.18	101.7	27.4							
	48+190.311	100	60							60	-0.31	0.05	46.3	47.1	600	1.67
30	48+250.311	100	60	0	0	0.00	0.00	0.0	0.0							
	48+290.311	100	60							60	0.29	-0.05	46.3	44.8	600	1.67
31	48+350.311	100	60	-600	100	0.63	-0.19	96.7	29.2							
	49+061.904	100	60							60	-0.29	0.05	46.3	44.8	600	1.67
32	49+121.904	100	60	0	0	0.00	0.00	0.0	0.0							
	49+204.525	100	60							40	0.28	-0.06	48.6	42.5	571	1.75
33	49+244.525	100	60	900	70	0.40	-0.15	61.1	22.8							
	49+369.722	100	60							40	-0.28	0.06	48.6	42.5	571	1.75
34	49+409.722	100	60	0	0	0.00	0.00	0.0	0.0							
	49+803.735	100	60							84	0.28	-0.06	49.6	42.2	560	1.79
35	49+887.735	100	60	425	150	0.83	-0.33	127.7	50.0							
	50+453.675	100	60							84	-0.28	0.06	49.6	42.2	560	1.79
36	50+537.675	100	60	0	0	0.00	0.00	0.0	0.0							
	50+593.675	100	60							84	0.28	-0.06	49.6	42.2	560	1.79
37	50+677.675	100	60	-425	150	0.83	-0.33	127.7	50.0							
	50+938.495	100	60							84	-0.28	0.06	49.6	42.2	560	1.79
38	51+022.495	100	60	0	0	0.00	0.00	0.0	0.0							
	51+410.899	100	60							60	0.35	-0.04	46.3	53.0	600	1.67

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
39	51+470.899	100	60	550	100	0.75	-0.15	114.6	22.7							
	51+647.421	100	60							60	-0.35	0.04	46.3	53.0	600	1.67
40	51+707.421	100	60	0	0	0.00	0.00	0.0	0.0							
	53+285.039	100	60							55	0.34	-0.05	48.0	52.2	579	1.73
41	53+340.039	100	60	-595	95	0.68	-0.15	103.4	23.6							
	53+885.328	100	60							55	-0.34	0.05	48.0	52.2	579	1.73
42	53+940.328	100	60	0	0	0.00	0.00	0.0	0.0							
	54+016.549	100	60							30	0.09	-0.04	23.1	13.3	1200	0.83
43	54+046.549	100	60	3000	25	0.09	-0.07	14.3	10.8							
	54+098.116	100	60							30	-0.09	0.04	23.1	13.3	1200	0.83
44	54+128.116	100	60	0	0	0.00	0.00	0.0	0.0							
	54+212.048	100	60							70	0.33	-0.04	43.7	50.0	636	1.57
45	54+282.048	100	60	500	110	0.82	-0.16	126.0	25.0							
	54+677.018	100	60							70	-0.33	0.04	43.7	50.0	636	1.57
46	54+747.018	100	60	0	0	0.00	0.00	0.0	0.0							
	54+955.753	100	60							75	0.30	-0.05	44.4	46.6	625	1.60
47	55+030.753	100	60	480	120	0.82	-0.21	125.9	31.5							
	55+082.519	100	60							75	-0.30	0.05	44.4	46.6	625	1.60
48	55+157.519	100	60	0	0	0.00	0.00	0.0	0.0							
	55+157.520	100	60							74	0.31	-0.04	41.3	47.3	673	1.49
49	55+231.520	100	60	-500	110	0.82	-0.16	126.0	25.0							
	55+376.909	100	60							74	-0.31	0.04	41.3	47.3	673	1.49
50	55+450.909	100	60	0	0	0.00	0.00	0.0	0.0							
	55+517.210	100	60							76	0.30	-0.04	42.0	46.0	661	1.51
51	55+593.210	100	60	490	115	0.82	-0.18	125.9	28.3							
	55+828.487	100	60							76	-0.30	0.04	42.0	46.0	661	1.51
52	55+904.487	100	60	0	0	0.00	0.00	0.0	0.0							
	55+904.487	100	60							90	0.25	-0.04	38.6	38.9	720	1.39
53	55+994.487	100	60	-470	125	0.82	-0.23	126.1	34.6							
	56+091.878	100	60							90	-0.25	0.04	38.6	38.9	720	1.39
54	56+181.878	100	60	0	0	0.00	0.00	0.0	0.0							
	56+280.362	100	60							60	0.34	-0.04	44.0	52.7	632	1.58
55	56+340.362	100	60	-565	95	0.74	-0.13	113.9	19.8							
	56+394.161	100	60							30	-0.14	0.04	27.8	21.8	1000	1.00
56	56+424.161	100	60	-760	65	0.59	-0.06	90.3	9.1							
	56+504.661	100	60							50	-0.33	0.02	36.1	50.2	769	1.30
57	56+554.661	100	60	0	0	0.00	0.00	0.0	0.0							
	56+668.235	100	60							30	0.29	-0.05	46.3	44.8	600	1.67
58	56+698.235	100	60	1200	50	0.32	-0.10	48.4	14.6							
	56+952.189	100	60							30	-0.29	0.05	46.3	44.8	600	1.67

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
59	56+982.189	100	60	0	0	0.00	0.00	0.0	0.0							
	57+216.906	100	60							55	0.36	-0.03	42.9	54.8	647	1.55
60	57+271.906	100	60	610	85	0.71	-0.10	108.5	15.3							
	57+314.011	100	60							55	-0.36	0.03	42.9	54.8	647	1.55
61	57+369.011	100	60	0	0	0.00	0.00	0.0	0.0							
	57+369.011	100	60							70	0.33	-0.04	43.7	50.0	636	1.57
62	57+439.011	100	60	-500	110	0.82	-0.16	126.0	25.0							
	57+799.478	100	60							70	-0.33	0.04	43.7	50.0	636	1.57
63	57+869.478	100	60	0	0	0.00	0.00	0.0	0.0							
	57+916.532	100	60							70	0.33	-0.04	43.7	50.0	636	1.57
64	57+986.532	100	60	500	110	0.82	-0.16	126.0	25.0							
	58+284.540	100	60							70	-0.33	0.04	43.7	50.0	636	1.57
65	58+354.540	100	60	0	0	0.00	0.00	0.0	0.0							
	58+457.384	100	60							50	0.21	-0.04	33.3	32.2	833	1.20
66	58+507.384	100	60	-1000	60	0.38	-0.11	58.0	17.5							
	58+783.132	100	60							50	-0.21	0.04	33.3	32.2	833	1.20
67	58+833.132	100	60	0	0	0.00	0.00	0.0	0.0							
	58+915.693	100	60							50	0.21	-0.04	33.3	32.2	833	1.20
68	58+965.693	100	60	1000	60	0.38	-0.11	58.0	17.5							
	59+172.062	100	60							50	-0.21	0.04	33.3	32.2	833	1.20
69	59+222.062	100	60	0	0	0.00	0.00	0.0	0.0							
	59+533.350	100	60							65	0.28	-0.04	40.6	43.5	684	1.46
70	59+598.350	100	60	600	95	0.66	-0.16	101.7	24.2							
	59+674.476	100	60							65	-0.28	0.04	40.6	43.5	684	1.46
71	59+739.476	100	60	0	0	0.00	0.00	0.0	0.0							
	59+739.477	100	60							80	0.27	-0.04	39.9	41.2	696	1.44
72	59+819.477	100	60	-505	115	0.78	-0.20	118.7	30.9							
	59+916.951	100	60							80	-0.27	0.04	39.9	41.2	696	1.44
73	59+996.951	100	60	0	0	0.00	0.00	0.0	0.0							
	60+573.623	100	60							60	0.30	-0.04	44.0	46.3	632	1.58
74	60+633.623	100	60	605	95	0.65	-0.16	100.1	24.8							
	60+840.472	100	60							60	-0.30	0.04	44.0	46.3	632	1.58
75	60+900.472	100	60	0	0	0.00	0.00	0.0	0.0							
	60+991.835	100	60							50	0.28	-0.05	44.4	42.4	625	1.60
76	61+041.835	100	60	-755	80	0.50	-0.16	76.3	23.7							
	61+081.835	100	60							50	-0.28	0.05	44.4	42.4	625	1.60
77	61+131.835	100	60	0	0	0.00	0.00	0.0	0.0							
	61+770.229	100	60							40	0.25	-0.06	45.1	38.1	615	1.63
78	61+810.229	100	60	-985	65	0.36	-0.14	54.8	21.9							
	61+978.450	100	60							40	-0.25	0.06	45.1	38.1	615	1.63

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
79	62+018.450	100	60	0	0	0.00	0.00	0.0	0.0							
	62+962.619	100	60							50	0.24	-0.06	44.4	36.5	625	1.60
80	63+012.619	100	60	-810	80	0.43	-0.18	65.7	27.5							
	63+064.152	100	60							50	-0.24	0.06	44.4	36.5	625	1.60
81	63+114.152	100	60	0	0	0.00	0.00	0.0	0.0							
	63+449.366	100	60							35	0.30	-0.05	47.6	46.0	583	1.71
82	63+484.366	100	60	-1000	60	0.38	-0.11	58.0	17.5							
	63+533.140	100	60							35	-0.30	0.05	47.6	46.0	583	1.71
83	63+568.140	100	60	0	0	0.00	0.00	0.0	0.0							
	63+836.214	100	60							75	0.31	-0.04	40.7	47.0	682	1.47
84	63+911.214	100	60	498	110	0.83	-0.16	127.0	24.7							
	64+344.322	100	60							75	-0.31	0.04	40.7	47.0	682	1.47
85	64+419.322	100	60	0	0	0.00	0.00	0.0	0.0							
	64+468.169	100	60							70	0.33	-0.04	43.7	50.0	636	1.57
86	64+538.169	100	60	-500	110	0.82	-0.16	126.0	25.0							
	64+735.186	100	60							70	-0.33	0.04	43.7	50.0	636	1.57
87	64+805.186	100	60	0	0	0.00	0.00	0.0	0.0							
	65+033.192	100	60							60	0.23	-0.03	32.4	35.9	857	1.17
88	65+093.192	100	60	800	70	0.51	-0.11	77.5	16.9							
	65+768.071	100	60							60	-0.23	0.03	32.4	35.9	857	1.17
89	65+828.071	100	60	0	0	0.00	0.00	0.0	0.0							
	66+635.571	100	60							55	0.36	-0.04	48.0	54.8	579	1.73
90	66+690.571	100	60	580	95	0.71	-0.14	108.5	21.7							
	66+807.819	100	60							20	-0.06	-0.01	0.0	9.4	0	0.00
91	66+807.819	100	60	600	95	0.66	-0.16	101.7	24.2							
	67+277.806	100	60							55	-0.34	0.05	48.0	51.4	579	1.73
92	67+332.806	100	60	0	0	0.00	0.00	0.0	0.0							
	67+532.471	100	60							35	0.35	-0.02	39.7	54.0	700	1.43
93	67+567.471	100	60	-1000	50	0.44	-0.05	68.0	7.5							
	67+787.527	100	60							35	-0.35	0.02	39.7	54.0	700	1.43
94	67+822.527	100	60	0	0	0.00	0.00	0.0	0.0							
	68+110.655	100	60							65	0.33	-0.05	47.0	50.9	591	1.69
95	68+175.655	100	60	-515	110	0.78	-0.18	119.2	27.5							
	68+246.772	100	60							65	-0.33	0.05	47.0	50.9	591	1.69
96	68+311.772	100	60	0	0	0.00	0.00	0.0	0.0							
	68+749.928	100	60							65	0.34	-0.05	49.1	52.7	565	1.77
97	68+814.928	100	60	-495	115	0.81	-0.19	123.4	29.2							
	69+349.889	100	60							65	-0.34	0.05	49.1	52.7	565	1.77
98	69+414.889	100	60	0	0	0.00	0.00	0.0	0.0							
	69+513.077	100	60							65	0.35	-0.04	47.0	53.9	591	1.69

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
99	69+578.077	100	60	500	110	0.82	-0.16	126.0	25.0							
	70+078.179	100	60							65	-0.35	0.04	47.0	53.9	591	1.69
100	70+143.179	100	60	0	0	0.00	0.00	0.0	0.0							
	70+461.215	100	60							45	0.33	-0.04	43.2	50.2	643	1.56
101	70+506.215	100	60	-780	70	0.53	-0.10	81.3	15.5							
	70+709.135	100	60							45	-0.33	0.04	43.2	50.2	643	1.56
102	70+754.135	100	60	0	0	0.00	0.00	0.0	0.0							
	71+460.289	100	60							40	0.34	-0.04	45.1	51.3	615	1.63
103	71+500.289	100	60	850	65	0.48	-0.10	73.9	15.0							
	71+581.665	100	60							40	-0.34	0.04	45.1	51.3	615	1.63
104	71+621.665	100	60	0	0	0.00	0.00	0.0	0.0							
	72+857.543	100	60							50	0.33	-0.04	44.4	49.9	625	1.60
105	72+907.543	100	60	-695	80	0.59	-0.12	89.8	18.9							
	73+240.132	100	60							50	-0.33	0.04	44.4	49.9	625	1.60
106	73+290.132	100	60	0	0	0.00	0.00	0.0	0.0							
	73+356.465	100	60							50	0.22	-0.08	50.0	33.0	556	1.80
107	73+406.465	100	60	790	90	0.39	-0.24	59.4	36.2							
	73+876.048	100	60							50	-0.22	0.08	50.0	33.0	556	1.80
108	73+926.048	100	60	0	0	0.00	0.00	0.0	0.0							
	74+772.102	100	60							40	0.22	-0.07	48.6	33.3	571	1.75
109	74+812.102	100	60	-1000	70	0.31	-0.18	48.0	27.5							
	74+883.669	100	60							40	-0.22	0.07	48.6	33.3	571	1.75
110	74+923.669	100	60	0	0	0.00	0.00	0.0	0.0							
	75+152.258	100	60							40	0.22	-0.07	48.6	34.2	571	1.75
111	75+192.258	100	60	-990	70	0.32	-0.18	49.2	27.1							
	75+489.410	100	60							40	-0.22	0.07	48.6	34.2	571	1.75
112	75+529.410	100	60	0	0	0.00	0.00	0.0	0.0							
	75+681.314	100	60							70	0.33	-0.04	43.7	51.0	636	1.57
113	75+751.314	100	60	495	110	0.84	-0.16	128.4	24.2							
	76+011.444	100	60							70	-0.33	0.04	43.7	51.0	636	1.57
114	76+081.444	100	60	0	0	0.00	0.00	0.0	0.0							
	76+186.277	100	60							45	0.31	-0.04	43.2	47.9	643	1.56
115	76+231.277	100	60	-800	70	0.51	-0.11	77.5	16.9							
	76+267.608	100	60							45	-0.31	0.04	43.2	47.9	643	1.56
116	76+312.608	100	60	0	0	0.00	0.00	0.0	0.0							
	77+096.348	100	60							55	0.35	-0.04	45.5	53.9	611	1.64
117	77+151.348	100	60	600	90	0.70	-0.13	106.7	19.2							
	77+759.717	100	60							55	-0.35	0.04	45.5	53.9	611	1.64
118	77+814.717	100	60	0	0	0.00	0.00	0.0	0.0							
	78+768.910	100	60							45	0.19	-0.08	46.3	28.8	600	1.67

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
119	78+813.910	100	60	-970	75	0.31	-0.20	46.7	31.2							
	79+048.186	100	60							45	-0.19	0.08	46.3	28.8	600	1.67
120	79+093.186	100	60	0	0	0.00	0.00	0.0	0.0							
	79+122.886	100	60							55	0.35	-0.04	45.5	53.9	611	1.64
121	79+177.886	100	60	-600	90	0.70	-0.13	106.7	19.2							
	79+349.819	100	60							55	-0.35	0.04	45.5	53.9	611	1.64
122	79+404.819	100	60	0	0	0.00	0.00	0.0	0.0							
	79+876.988	100	60							55	0.35	-0.04	45.5	53.9	611	1.64
123	79+931.988	100	60	-600	90	0.70	-0.13	106.7	19.2							
	80+159.620	100	60							55	-0.35	0.04	45.5	53.9	611	1.64
124	80+214.620	100	60	0	0	0.00	0.00	0.0	0.0							
	80+984.789	100	60							40	0.15	-0.05	31.3	23.4	889	1.13
125	81+024.789	100	60	1500	45	0.22	-0.11	33.7	16.7							
	81+073.984	100	60							40	-0.15	0.05	31.3	23.4	889	1.13
126	81+113.984	100	60	0	0	0.00	0.00	0.0	0.0							
	82+115.542	100	60							45	0.20	-0.07	46.3	30.4	600	1.67
127	82+160.542	100	60	950	75	0.32	-0.20	49.2	30.3							
	82+292.017	100	60							45	-0.20	0.07	46.3	30.4	600.0	1.67
128	82+337.017	100	60	0	0	0.00	0.00	0.0	0.0							
	82+624.139	100	60							50	0.22	-0.08	50.0	33.0	555.6	1.80
129	82+674.139	100	60	790	90	0.39	-0.24	59.4	36.2							
	83+103.534	100	60							50	-0.22	0.08	50.0	33.0	555.6	1.80
130	83+153.534	100	60	0	0	0.00	0.00	0.0	0.0							
	83+364.447	100	60							30	0.20	-0.04	32.4	30.9	857.1	1.17
131	83+394.447	100	60	1725	35	0.22	-0.07	33.4	10.4							
	83+434.480	100	60							30	-0.20	0.04	32.4	30.9	857.1	1.17
132	83+464.480	100	60	0	0	0.00	0.00	0.0	0.0							
	84+009.980	100	60							60	0.23	-0.04	34.7	34.9	800.0	1.25
133	84+069.980	100	60	-785	75	0.49	-0.14	75.3	20.9							
	84+471.048	100	60							60	-0.23	0.04	34.7	34.9	800.0	1.25
134	84+531.048	100	60	0	0	0.00	0.00	0.0	0.0							
	84+589.828	100	60							60	0.24	-0.03	34.7	37.2	800.0	1.25
135	84+649.828	100	60	-760	75	0.52	-0.12	80.3	19.1							
	84+742.557	100	60							60	-0.24	0.03	34.7	37.2	800.0	1.25
136	84+802.557	100	60	0	0	0.00	0.00	0.0	0.0							
	85+327.557	100	60							55	0.36	-0.04	45.5	54.7	611.1	1.64
137	85+382.557	100	60	-595	90	0.71	-0.12	108.4	18.6							
	85+623.855	100	60							55	-0.36	0.04	45.5	54.7	611.1	1.64
138	85+678.855	100	60	0	0	0.00	0.00	0.0	0.0							
	85+992.641	100	60							40	0.27	-0.05	41.7	41.5	666.7	1.50

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
139	86+032.641	100	60	-985	60	0.39	-0.11	59.8	16.9							
	86+355.349	100	60							40	-0.27	0.05	41.7	41.5	666.7	1.50
140	86+395.349	100	60	0	0	0.00	0.00	0.0	0.0							
	86+645.802	100	60							50	0.19	-0.08	47.2	29.0	588.2	1.70
141	86+695.802	100	60	-860	85	0.34	-0.23	52.2	35.6							
	86+763.529	100	60							50	-0.19	0.08	47.2	29.0	588.2	1.70
142	86+813.529	100	60	0	0	0.00	0.00	0.0	0.0							
	86+947.535	100	60							50	0.18	-0.06	38.9	27.3	714.3	1.40
143	86+997.535	100	60	-990	70	0.32	-0.18	49.2	27.1							
	87+476.675	100	60							50	-0.18	0.06	38.9	27.3	714.3	1.40
144	87+526.675	100	60	0	0	0.00	0.00	0.0	0.0							
	87+632.803	100	60							55	0.35	-0.04	45.5	53.9	611.1	1.64
145	87+687.803	100	60	600	90	0.70	-0.13	106.7	19.2							
	87+972.401	100	60							55	-0.35	0.04	45.5	53.9	611.1	1.64
146	88+027.401	100	60	0	0	0.00	0.00	0.0	0.0							
	88+055.376	100	60							55	0.23	-0.04	37.9	35.7	733.3	1.36
147	88+110.376	100	60	810	75	0.46	-0.15	70.7	22.5							
	88+536.380	100	60							55	-0.23	0.04	37.9	35.7	733.3	1.36
148	88+591.380	100	60	0	0	0.00	0.00	0.0	0.0							
	88+952.373	100	60							75	0.29	-0.06	48.1	44.9	576.9	1.73
149	89+027.373	100	60	-470	130	0.79	-0.26	121.1	39.6							
	89+379.268	100	60							75	-0.29	0.06	48.1	44.9	576.9	1.73
150	89+454.268	100	60	0	0	0.00	0.00	0.0	0.0							
	89+541.892	100	60							82	0.28	-0.06	49.1	42.8	565.5	1.77
151	89+623.892	100	60	-435	145	0.83	-0.31	126.3	47.3							
	89+700.551	100	60							82	-0.28	0.06	49.1	42.8	565.5	1.77
152	89+782.551	100	60	0	0	0.00	0.00	0.0	0.0							
	89+782.552	100	60							82	0.28	-0.06	49.1	42.8	565.5	1.77
153	89+864.552	100	60	435	145	0.83	-0.31	126.3	47.3							
	90+031.709	100	60							82	-0.28	0.06	49.1	42.8	565.5	1.77
154	90+113.709	100	60	0	0	0.00	0.00	0.0	0.0							
	90+199.097	100	60							45	0.26	-0.06	46.3	39.4	600.0	1.67
155	90+244.097	100	60	850	75	0.42	-0.16	63.9	25.0							
	90+294.400	100	60							45	-0.26	0.06	46.3	39.4	600.0	1.67
156	90+339.400	100	60	0	0	0.00	0.00	0.0	0.0							
	90+467.392	100	60							80	0.27	-0.06	45.1	41.1	615.4	1.63
157	90+547.392	100	60	-475	130	0.77	-0.27	118.5	40.6							
	90+655.442	100	60							80	-0.27	0.06	45.1	41.1	615.4	1.63
158	90+735.442	100	60	0	0	0.00	0.00	0.0	0.0							
	91+395.009	100	60							80	0.27	-0.05	41.7	42.0	666.7	1.50

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
159	91+475.009	100	60	-490	120	0.79	-0.22	120.9	33.3							
	91+655.064	100	60							80	-0.27	0.05	41.7	42.0	666.7	1.50
160	91+735.064	100	60	0	0	0.00	0.00	0.0	0.0							
	91+982.779	100	60							40	0.11	-0.04	24.3	16.7	1142.9	0.88
161	92+022.779	100	60	-2000	35	0.16	-0.09	24.0	13.8							
	92+271.976	100	60							40	-0.11	0.04	24.3	16.7	1142.9	0.88
162	92+311.976	100	60	0	0	0.00	0.00	0.0	0.0							
	92+351.242	100	60							65	0.35	-0.04	47.0	53.9	590.9	1.69
163	92+416.242	100	60	500	110	0.82	-0.16	126.0	25.0							
	92+988.620	100	60							65	-0.35	0.04	47.0	53.9	590.9	1.69
164	93+053.620	100	60	0	0	0.00	0.00	0.0	0.0							
	93+089.912	100	60							60	0.35	-0.04	46.3	53.0	600.0	1.67
165	93+149.912	100	60	550	100	0.75	-0.15	114.6	22.7							
	93+239.139	100	60							60	-0.35	0.04	46.3	53.0	600.0	1.67
166	93+299.139	100	60	0	0	0.00	0.00	0.0	0.0							
	93+575.327	100	60							57	0.34	-0.04	43.9	52.0	633.3	1.58
167	93+632.327	100	60	-600	90	0.70	-0.13	106.7	19.2							
	94+128.052	100	60							57	-0.34	0.04	43.9	52.0	633.3	1.58
168	94+185.052	100	60	0	0	0.00	0.00	0.0	0.0							
	94+185.053	100	60							70	0.31	-0.05	47.6	47.0	583.3	1.71
169	94+255.053	100	60	-495	120	0.77	-0.22	118.4	34.2							
	94+674.458	100	60							70	-0.31	0.05	47.6	47.0	583.3	1.71
170	94+744.458	100	60	0	0	0.00	0.00	0.0	0.0							
	94+916.272	100	60							50	0.25	-0.03	33.3	38.7	833.3	1.20
171	94+966.272	100	60	910	60	0.46	-0.09	69.7	13.3							
	95+061.858	100	60							50	-0.25	0.03	33.3	38.7	833.3	1.20
172	95+111.858	100	60	0	0	0.00	0.00	0.0	0.0							
	95+338.912	100	60							65	0.34	-0.04	47.0	51.9	590.9	1.69
173	95+403.912	100	60	-510	110	0.79	-0.17	121.4	26.7							
	95+630.483	100	60							65	-0.34	0.04	47.0	51.9	590.9	1.69
174	95+695.483	100	60	0	0	0.00	0.00	0.0	0.0							
	95+715.826	100	60							65	0.35	-0.04	47.0	53.9	590.9	1.69
175	95+780.826	100	60	500	110	0.82	-0.16	126.0	25.0							
	95+881.831	100	60							65	-0.35	0.04	47.0	53.9	590.9	1.69
176	95+946.831	100	60	0	0	0.00	0.00	0.0	0.0							
	96+562.247	100	60							65	0.35	-0.04	47.0	53.9	590.9	1.69
177	96+627.247	100	60	500	110	0.82	-0.16	126.0	25.0							
	96+971.223	100	60							65	-0.35	0.04	47.0	53.9	590.9	1.69
178	97+036.223	100	60	0	0	0.00	0.00	0.0	0.0							
	97+199.847	100	60							65	0.33	-0.05	47.0	50.9	590.9	1.69

Nr elementu poziom.	Projektowany Km Linii 229	V _p [km/h]	V _t [km/h]	Promień R krzyw. poz. [m]	h [mm]	a _p [mm/s ²]	a _t [mm/s ²]	Niedom. h _p [mm]	Nadmiar h _t [mm]	L _{KP} [m]	Ψ _p [mm/s ³]	Ψ _t [mm/s ³]	Zmiana h _p [mm/s]	Zmiana nied. h _p [mm/s]	Pochyl. rampy [1 / ...]	Pochyl. rampy [mm/m]
179	97+264.847	100	60	-515	110	0.78	-0.18	119.2	27.5							
	97+390.369	100	60							65	-0.33	0.05	47.0	50.9	590.9	1.69
180	97+455.369	100	60	0	0	0.00	0.00	0.0	0.0							
	97+683.799	100	60							70	0.33	-0.04	45.6	49.9	608.7	1.64
181	97+753.799	100	60	490	115	0.82	-0.18	125.9	28.3							
	98+034.767	100	60							70	-0.33	0.04	45.6	49.9	608.7	1.64
182	98+104.767	100	60	0	0	0.00	0.00	0.0	0.0							
	98+471.318	100	60							30	0.16	-0.05	32.4	25.1	857.1	1.17
183	98+501.318	100	60	1900	35	0.18	-0.08	27.1	12.6							
	98+696.181	100	60							30	-0.16	0.05	32.4	25.1	857.1	1.17
184	98+726.181	100	60	0	0	0.00	0.00	0.0	0.0							
	99+965.155	100	60							65	0.35	-0.04	47.0	53.9	590.9	1.69
185	100+030.155	100	60	-500	110	0.82	-0.16	126.0	25.0							