

Study Name: **Plzen**
Run Date: **04-08-2023**

ID	Name	Speed Flow Type	Rise + Fa (m/km	No. of Rises & Falls (/km	Horizontal Curvature (deg/km	Superelev- ation (%)	Altitude (m)	Sigma adral (m/s2	Spec Limit (km/h	Spec Enforceme Factor	Drain Type	NMT Frictio (XNMT	Side Frictio (XFRI	MT Frictio (XMT)	Length (Km)	Width (m)
001	001	001-M16(4p)/50 SS	5.0	1	5	2.50	370	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.37	16.00
002	002	002-M16(4p)/50 SS	30.0	1	65	2.50	370	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.62	16.00
003	003	003-M16(4p)/50 SS	40.0	1	5	2.50	340	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.33	16.00
004	004	004-M16(4p)/50 SS	30.0	1	90	2.50	340	0.10	33	1.00	No drainage effects	1.00	1.00	1.00	0.21	16.00
005	005	005-M16(4p)/50 SS	20.0	1	5	2.50	330	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.34	16.00
006	006	006-M16(4p)/50 SS	35.0	1	5	2.50	320	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.29	16.00
007	007	007-M16(4p)/60 SS	15.0	1	5	2.50	310	0.10	54	1.00	No drainage effects	1.00	1.00	1.00	0.49	16.00
008	008	MS15(4p)/70	5.0	1	5	2.50	310	0.10	70	1.00	No drainage effects	1.00	1.00	1.00	0.44	15.00
009	009	009-M16(4p)/50 SS	35.0	1	5	2.50	310	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.24	16.00
010	010	010-M18(4p)/50 SS	5.0	1	10	2.50	310	0.10	27	1.00	No drainage effects	1.00	1.00	1.00	0.19	18.00
011	011	011-M16(4p)/50 SS	20.0	1	80	2.50	310	0.10	43	1.00	No drainage effects	1.00	1.00	1.00	0.50	16.00
012	012	012-M16(4p)/50 SS	5.0	1	5	2.50	310	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.41	16.00
013	013	013-M14(4p)/50 SS	5.0	1	60	2.50	310	0.10	24	1.00	No drainage effects	1.00	1.00	1.00	0.51	14.00
014	014	014-M17(4p)/50 SS	20.0	1	5	2.50	310	0.10	20	1.00	No drainage effects	1.00	1.00	1.00	0.23	17.00
015	015	015-M17(4p)/50 SS	15.0	1	5	2.50	320	0.10	25	1.00	No drainage effects	1.00	1.00	1.00	0.22	17.00
016	016	016-M11(2p)/50 SS	25.0	1	40	2.50	320	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.16	11.00
017	017	017-M8(2p)/50 SSZ	10.0	1	20	2.50	320	0.10	47	1.00	No drainage effects	1.00	1.00	1.00	0.78	8.00
018	018	018-M8(2p)/50 SSZ	15.0	1	5	2.50	320	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.45	8.00
019	019	019-M8(2p)/50 SSZ	10.0	1	5	2.50	340	0.10	43	1.00	No drainage effects	1.00	1.00	1.00	0.50	8.00
020	020	020-M8(2p)/50 SSZ	20.0	1	5	2.50	340	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.26	8.00
021	021	021-M8(2p)/50 SSZ	5.0	1	5	2.50	350	0.10	43	1.00	No drainage effects	1.00	1.00	1.00	0.61	8.00
022	022	022-M8(2p)/50 SSZ	5.0	1	0	2.50	350	0.10	47	1.00	No drainage effects	1.00	1.00	1.00	0.97	8.00
023	023	023-M8(2p)/50 SSZ	10.0	1	5	2.50	350	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.46	8.00
024	024	024-M8(2p)/50 SSZ	10.0	1	5	2.50	350	0.10	43	1.00	No drainage effects	1.00	1.00	1.00	0.39	8.00
025	025	025-M8(2p)/60 OK/	25.0	1	5	2.50	360	0.10	48	1.00	No drainage effects	1.00	1.00	1.00	1.02	8.00
026	026	026-M7(2p)/50 OK/	10.0	1	60	2.50	370	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.43	7.00
027	027	S22,5/90	10.0	1	30	2.50	350	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.05	18.50
028	028	028-M20(4p)/80 SS	5.0	1	40	2.50	340	0.10	74	1.00	No drainage effects	1.00	1.00	1.00	0.71	20.00

H D M - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fa (m/km	No. of Rises & Falls (/km	Horizontal Curvature (deg/km	Superele -ation (%)	Altitude (m)	Sigma adral (m/s2,	Spec Limit (km/h	Spec Enforcem Factor	Drain Type	NMT Friction (XNMT,	Side Friction (XFRI,	MT Friction (XMT)	Length (Km)	Width (m)
029	029	029-M16(4p)/50_SS	5.0	1	40	2.50	340	0.10	44	1.00	No drainage effects	1.00	1.00	1.00	0.76	16.00
030	030	M9(2p)/50	15.0	1	40	2.50	350	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.15	9.00
031	031	031-M7(2p)/50_NeK	25.0	1	5	2.50	350	0.10	48	1.00	No drainage effects	1.00	1.00	1.00	0.22	7.00
032	032	032-M7(2p)/50_SSZ	10.0	1	25	2.50	350	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.67	7.00
033	033	033-M8(2p)/50_SSZ	10.0	1	10	2.50	400	0.10	26	1.00	No drainage effects	1.00	1.00	1.00	0.50	8.00
034	034	034-M7(2p)/50_NeK	10.0	1	10	2.50	350	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.37	7.00
035	035	035-M7(2p)/50_OK/	30.0	1	50	2.50	350	0.10	43	1.00	No drainage effects	1.00	1.00	1.00	0.13	7.00
036	036	036-M8(2p)/50_OK/	15.0	1	80	2.50	350	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	1.48	8.00
037	037	037-M7(2p)/50_NeK	10.0	1	5	2.50	345	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.58	7.00
038	038	M8(2p)/50	5.0	1	50	2.50	400	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.37	8.00
039	039	039-M9(2p)/50_NeK	15.0	1	60	2.50	340	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.41	9.00
040	040	040-M7(2p)/50_NeK	5.0	1	15	2.50	340	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.66	7.00
041	041	041-M7(2p)/50_OK/	5.0	1	60	2.50	340	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.20	7.00
042	042	042-M10(2p)/50_OK/	10.0	1	5	2.50	350	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.47	10.00
043	043	043-M10(2p)/50_SS	15.0	1	15	2.50	350	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.93	10.00
044	044	044-M8(2p)/50_SSZ	15.0	1	10	2.50	320	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.28	8.00
045	045	045-M7(2p)/50_SSZ	5.0	1	25	2.50	330	0.10	36	1.00	No drainage effects	1.00	1.00	1.00	0.15	7.00
046	046	046-M8(2p)/50_NeK	10.0	1	5	2.50	330	0.10	29	1.00	No drainage effects	1.00	1.00	1.00	0.22	8.00
047	047	047-M7(2p)/50_SSZ	10.0	1	15	2.50	320	0.10	22	1.00	No drainage effects	1.00	1.00	1.00	0.07	7.00
048	048	048-M8(2p)/50_SSZ	10.0	1	10	2.50	320	0.10	26	1.00	No drainage effects	1.00	1.00	1.00	0.51	8.00
049	049	049-M8(2p)/50_SSZ	15.0	1	60	2.50	320	0.10	27	1.00	No drainage effects	1.00	1.00	1.00	0.23	8.00
050	050	050-M7(2p)/50_SSZ	5.0	1	25	2.50	330	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.75	7.00
051	051	051-M8(2p)/50_OK/	10.0	1	5	2.50	330	0.10	44	1.00	No drainage effects	1.00	1.00	1.00	0.48	8.00
052	052	052-M8(2p)/50_OK/	5.0	1	5	2.50	340	0.10	47	1.00	No drainage effects	1.00	1.00	1.00	0.46	8.00
053	053	M8(2p)/50	5.0	1	15	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.20	8.00
054	054	M8(2p)/50	5.0	1	35	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.42	8.00
055	055	055-M10(2p)/50_Ne	5.0	1	5	2.50	340	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.26	10.00
056	056	M8(2p)/50	10.0	1	60	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.20	8.00
057	057	M7(2p)/50	10.0	1	5	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.47	7.00
058	058	058-M5(2p)/50_NeK	20.0	1	15	2.50	340	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.29	5.00
059	059	M5(2p)/50	15.0	1	50	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.46	5.00
060	060	060-M5(2p)/50_NeK	25.0	1	5	2.50	340	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	0.31	5.00
061	061	061-M7(2p)/50_NeK	20.0	1	5	2.50	340	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.27	7.00

H D M - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fa (m/km	No. of Rises & Falls (/km	Horizontal Curvature (deg/km	Superele -ation (%)	Altitude (m)	Sigma adral (m/s2,	Spec Limit (km/h	Spec Enforcem Factor	Drain Type	NMT Frictior (XNMT,	Sid Frictior (XFRI,	MT Frictior (XMT)	Length (Km)	Width (m)
062	062	062-M7(2p)/50_NeK	5.0	1	5	2.50	340	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.16	7.00
063	063	063-M7(2p)/50_NeK	35.0	1	5	2.50	340	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.25	7.00
064	064	064-M7(2p)/50_NeK	20.0	1	5	2.50	340	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.37	7.00
065	065	065-M8(2p)/50_OK/	15.0	1	5	2.50	380	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.23	8.00
066	066	M7(2p)/50	20.0	1	80	2.50	380	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.19	7.00
067	067	M7(2p)/50	10.0	1	10	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.08	7.00
068	068	M8(2p)/50	30.0	1	90	2.50	370	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.81	8.00
069	069	M8(2p)/50	20.0	1	90	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.35	8.00
070	070	M7(2p)/50	40.0	1	45	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.64	7.00
071	071	071-S7.5(2p)/90_O	20.0	1	40	2.50	370	0.10	87	1.00	No drainage effects	1.00	1.00	1.00	1.64	6.50
072	072	072-M7(2p)/50_OK/	40.0	1	10	2.50	330	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.08	7.00
073	073	M7(2p)/50	60.0	1	280	5.00	325	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.34	7.00
074	074	074-M7(2p)/50_SSZ	15.0	1	100	2.50	310	0.10	48	1.00	No drainage effects	1.00	1.00	1.00	0.80	7.00
075	075	075-M8(2p)/50_SSZ	5.0	1	5	2.50	340	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.63	8.00
076	076	076-M16(4p)/50_SS	35.0	1	5	2.50	320	0.10	41	1.00	No drainage effects	1.00	1.00	1.00	0.35	16.00
077	077	077-M8(2p)/50_SSZ	30.0	1	40	2.50	330	0.10	44	1.00	No drainage effects	1.00	1.00	1.00	0.69	8.00
078	078	078-M16(4p)/50_SS	25.0	1	5	2.50	310	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	0.44	16.00
079	079	079-M16(4p)/50_SS	20.0	1	40	2.50	310	0.10	30	1.00	No drainage effects	1.00	1.00	1.00	0.48	16.00
080	080	080-M16(4p)/50_SS	5.0	1	5	2.50	320	0.10	29	1.00	No drainage effects	1.00	1.00	1.00	0.40	16.00
081	081	081-M16(4p)/50_SS	30.0	1	20	2.50	310	0.10	25	1.00	No drainage effects	1.00	1.00	1.00	0.36	16.00
082	082	082-M10(2p)/50_SS	20.0	1	50	2.50	320	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.44	10.00
083	083	083-M12(2p)/50_SS	5.0	1	60	2.50	310	0.10	33	1.00	No drainage effects	1.00	1.00	1.00	0.06	12.00
084	084	084-M12(2p)/50_SS	5.0	1	40	2.50	310	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.29	12.00
085	085	085-M7(2p)/50_SSZ	5.0	1	40	2.50	310	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.47	7.00
086	086	086-M7(2p)/50_SSZ	15.0	1	20	2.50	310	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.20	7.00
087	087	087-M7(2p)/50_SSZ	25.0	1	5	2.50	300	0.10	31	1.00	No drainage effects	1.00	1.00	1.00	0.21	7.00
088	088	M7(2p)/50	5.0	1	100	2.50	300	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.63	7.00
089	089	089-M7(2p)/50_OK/	5.0	1	80	2.50	310	0.10	47	1.00	No drainage effects	1.00	1.00	1.00	0.82	7.00
090	090	090-M7(2p)/50_SSZ	5.0	1	5	2.50	310	0.10	31	1.00	No drainage effects	1.00	1.00	1.00	0.17	7.00
091	091	091-M7(2p)/50_OK/	5.0	1	40	2.50	310	0.10	44	1.00	No drainage effects	1.00	1.00	1.00	0.21	7.00
092	092	092-M7(2p)/50_OK	5.0	1	90	2.50	310	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.40	7.00
093	093	093-M16(4p)/50_SS	10.0	1	30	2.50	350	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	0.62	16.00
094	094	094-M16(4p)/50_O	40.0	1	60	2.50	310	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	0.23	16.00

HDM - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fall (m/km)	No. of Rises & Falls (/km)	Horizontal Curvature (deg/km)	Superelevation (%)	Altitude (m)	Sigma adra (m/s2)	Speed Limit (km/h)	Speed Enforcement Factor	Drain Type	NMT Friction (XNMT)	Side Friction (XFRI)	MT Friction (XMT)	Length (Km)	Width (m)
095	095	095-M7(2p)/50_SSZ	5.0	1	5	2.50	310	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.77	7.00
096	096	096-M19(4p)/50_SS	35.0	1	10	2.50	340	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.78	19.00
097	097	097-M19(4p)/50_SS	5.0	1	10	2.50	350	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.33	19.00
098	098	098-M19(4p)/50_SS	30.0	1	40	2.50	340	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.76	19.00
099	099	099-M19(4p)/50_SS	35.0	1	5	2.50	360	0.10	30	1.00	No drainage effects	1.00	1.00	1.00	0.46	19.00
100	100	100-M19(4p)/50_SS	45.0	1	20	2.50	360	0.10	30	1.00	No drainage effects	1.00	1.00	1.00	0.39	19.00
101	101	101-M16(4p)/50_SS	40.0	1	25	2.50	390	0.10	27	1.00	No drainage effects	1.00	1.00	1.00	0.41	16.00
102	102	102-M16(4p)/50_SS	15.0	1	20	2.50	390	0.10	41	1.00	No drainage effects	1.00	1.00	1.00	0.83	16.00
103	103	103-S9.5(2p)/70_Or	50.0	1	25	2.50	340	0.10	68	1.00	No drainage effects	1.00	1.00	1.00	1.27	8.50
104	104	104-S9.5(2p)/70_70	5.0	1	80	2.50	340	0.10	70	1.00	No drainage effects	1.00	1.00	1.00	2.07	8.50
105	105	105-S9.5(2p)/70_20	35.0	1	5	2.50	330	0.10	70	1.00	No drainage effects	1.00	1.00	1.00	0.64	8.50
106	106	106-S9.5(2p)/90_70	45.0	1	5	2.50	330	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.46	8.50
107	107	107-S9.5(2p)/50_Or	20.0	1	5	2.50	330	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.65	8.50
108	108	108-M16(4p)/50_SS	5.0	1	10	2.50	360	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	1.20	16.00
109	109	109-M16(4p)/50_SS	5.0	1	5	2.50	350	0.10	35	1.00	No drainage effects	1.00	1.00	1.00	0.66	16.00
110	110	110-M16(4p)/50_SS	5.0	1	10	2.50	350	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.50	16.00
111	111	111-M16(4p)/50_SS	5.0	1	25	2.50	350	0.10	35	1.00	No drainage effects	1.00	1.00	1.00	0.34	16.00
112	112	112-MS16(4p)/50_C	5.0	1	5	2.50	350	0.10	35	1.00	No drainage effects	1.00	1.00	1.00	0.21	16.00
113	113	113-MS16(4p)/50_S	5.0	1	5	2.50	350	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.31	16.00
114	114	114-MS16(4p)/50_C	5.0	1	5	2.50	340	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.50	16.00
115	115	115-MS16(4p)/50_C	5.0	1	10	2.50	330	0.10	36	1.00	No drainage effects	1.00	1.00	1.00	0.22	13.50
116	116	116-M9(2p)/50_SSZ	5.0	1	80	2.50	330	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.14	9.00
117	117	117-M12(4p)/50_SS	15.0	1	40	2.50	330	0.10	33	1.00	No drainage effects	1.00	1.00	1.00	0.20	12.00
118	118	118-M12(4p)/50_SS	10.0	1	100	2.50	330	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.10	12.00
119	119	119-M14(4p)/50_SS	25.0	1	5	2.50	320	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.61	14.00
120	120	120-M14(4p)/50_SS	40.0	1	10	2.50	320	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.51	14.00
121	121	121-M7(2p)/50_SSZ	5.0	1	25	2.50	320	0.10	36	1.00	No drainage effects	1.00	1.00	1.00	0.37	7.00
122	122	122-M8(2p)/60_SSZ	5.0	1	50	2.50	320	0.10	55	1.00	No drainage effects	1.00	1.00	1.00	1.20	8.00
123	123	123-M7(2p)/50_SSZ	40.0	1	120	2.50	320	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	0.48	7.00
124	124	124-M8(2p)/50_SSZ	15.0	1	100	2.50	320	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.49	8.00
125	125	M12(3p)/50	40.0	1	80	2.50	320	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.66	12.00
126	126	126-M11(2p)/50_Ne	30.0	1	70	2.50	340	0.10	36	1.00	No drainage effects	1.00	1.00	1.00	0.21	11.00
127	127	127-M11(2p)/50_Ne	30.0	1	90	2.50	340	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.23	11.00

HDM - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fall (m/km)	No. of Rises & Falls (/km)	Horizontal Curvature (deg/km)	Superelevation (%)	Altitude (m)	Sigma adra (m/s2)	Speed Limit (km/h)	Speed Enforcement Factor	Drain Type	NMT Friction (XNMT)	Side Friction (XFRI)	MT Friction (XMT)	Length (Km)	Width (m)
128	128	128-M15(4p)/50_SS	5.0	1	5	2.50	330	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.21	15.00
129	129	129-M7(2p)/50_SSZ	20.0	1	20	2.50	330	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.40	7.00
130	130	130-M7(2p)/50_SSZ	5.0	1	5	2.50	340	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.71	7.00
131	131	131-M7(2p)/50_SSZ	15.0	1	30	2.50	340	0.10	41	1.00	No drainage effects	1.00	1.00	1.00	1.17	7.00
132	132	M7(2p)/50	55.0	1	10	2.50	320	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.24	7.00
133	133	133-S7.5(2p)/80_50	15.0	1	75	2.50	350	0.10	80	1.00	No drainage effects	1.00	1.00	1.00	1.98	6.50
134	134	S7.5/50_obec	10.0	1	45	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.60	6.50
135	135	135-S7.5(2p)/90_90	10.0	1	40	2.50	350	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.52	6.50
136	136	S6.5/50_obec	15.0	1	60	2.50	340	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	1.06	5.50
137	137	137-S7.5(2p)/90_Ot	5.0	1	60	2.50	330	0.10	84	1.00	No drainage effects	1.00	1.00	1.00	0.56	6.50
138	138	138-S9.5(2p)/90_Ot	35.0	1	60	2.50	360	0.10	87	1.00	No drainage effects	1.00	1.00	1.00	2.12	8.50
139	139	139-S9.5(2p)/90_Ot	20.0	1	80	2.50	390	0.10	86	1.00	No drainage effects	1.00	1.00	1.00	1.18	8.50
140	140	140-S9.5(2p)/50_Ot	10.0	1	30	2.50	380	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	1.10	8.50
141	141	141-M7(2p)/50_OK/	25.0	1	125	2.50	375	0.10	48	1.00	No drainage effects	1.00	1.00	1.00	0.57	7.00
142	142	M7(2p)/50	35.0	1	30	2.50	370	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.34	7.00
143	143	143-M7(2p)/50_Nek	30.0	1	10	2.50	360	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.35	7.00
144	144	144-S7.5(2p)/90_90	35.0	1	40	2.50	330	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	0.37	6.50
145	145	145-S7.5(2p)/55_Ot	20.0	1	70	2.50	330	0.10	53	1.00	No drainage effects	1.00	1.00	1.00	1.31	6.50
146	146	146-S20,75(4p)/70_	10.0	1	60	2.50	350	0.10	66	1.00	No drainage effects	1.00	1.00	1.00	0.52	18.50
147	147	S22,5/90	30.0	1	15	2.50	320	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.88	18.50
148	148	S22,5/90	10.0	1	5	2.50	350	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.18	18.50
149	149	S22,5/90	15.0	1	10	2.50	360	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.41	18.50
150	150	150-S6.5(2p)/90_90	5.0	1	55	2.50	360	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.62	5.50
151	151	151-M6(2p)/50_Nek	30.0	1	80	2.50	340	0.10	48	1.00	No drainage effects	1.00	1.00	1.00	1.10	6.00
152	152	152-M7(2p)/50_SSZ	10.0	1	80	2.50	320	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.92	7.00
153	153	153-M10(2p)/50_Ne	5.0	1	5	2.50	330	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.26	10.00
154	154	M9(2p)/50	5.0	1	5	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.11	9.00
155	155	M9(2p)/50	25.0	1	5	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.14	9.00
156	156	M9(2p)/50	25.0	1	5	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.11	9.00
157	157	157-M10(2p)/50_SS	15.0	1	5	2.50	330	0.10	31	1.00	No drainage effects	1.00	1.00	1.00	0.17	10.00
158	158	158-M9(2p)/50_SSZ	20.0	1	5	2.50	330	0.10	29	1.00	No drainage effects	1.00	1.00	1.00	0.09	9.00
159	159	159-M7(2p)/50_SSZ	5.0	1	5	2.50	320	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.15	7.00
160	160	M12(3p)/50	5.0	1	5	2.50	320	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.17	12.00

H D M - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fa (m/km	No. of Rises & Falls (/km	Horizontal Curvature (deg/km	Superele -ation (%)	Altitude (m)	Sigma adral (m/s2,	Spec Limit (km/h	Spec Enforcem Factor	Drain Type	NMT Friction (XNMT,	Side Friction (XFRI,	MT Friction (XMT)	Length (Km)	Width (m)
161	161	161-M12(3p)/50_SS	5.0	1	5	2.50	320	0.10	33	1.00	No drainage effects	1.00	1.00	1.00	0.24	12.00
162	162	162-M19(4p)/50_SS	5.0	1	30	2.50	320	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.17	19.00
163	163	MS22,5(4p)/50	25.0	1	10	2.50	320	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.11	18.50
164	164	164-M13(4p)/50_SS	5.0	1	5	2.50	310	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.36	13.00
165	165	165-M19(4p)/50_SS	10.0	1	60	2.50	310	0.10	31	1.00	No drainage effects	1.00	1.00	1.00	0.40	19.00
166	166	166-M6(2p)/50_SSZ	25.0	1	5	2.50	320	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.10	6.00
167	167	M7(2p)/50	35.0	1	5	2.50	320	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.09	7.00
168	168	168-M7(2p)/50_SSZ	25.0	1	5	2.50	320	0.10	29	1.00	No drainage effects	1.00	1.00	1.00	0.08	7.00
169	169	169-M9(2p)/50_SSZ	10.0	1	10	2.50	330	0.10	29	1.00	No drainage effects	1.00	1.00	1.00	0.11	9.00
170	170	M8(2p)/50	25.0	1	5	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.07	8.00
171	171	M8(2p)/50	10.0	1	5	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.10	8.00
172	172	M8(2p)/50	5.0	1	5	2.50	330	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.12	8.00
173	173	173-M8(2p)/50_SSZ	10.0	1	5	2.50	330	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.17	8.00
174	174	174-M8(2p)/50_SSZ	35.0	1	5	2.50	330	0.10	20	1.00	No drainage effects	1.00	1.00	1.00	0.09	8.00
175	175	175-M8(2p)/50_SSZ	5.0	1	5	2.50	320	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.35	8.00
176	176	176-M7(2p)/50_SSZ	10.0	1	5	2.50	330	0.10	31	1.00	No drainage effects	1.00	1.00	1.00	0.13	7.00
177	177	177-M7(2p)/50_SSZ	5.0	1	5	2.50	320	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.21	7.00
178	178	178-M7(2p)/50_SSZ	25.0	1	5	2.50	320	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.10	7.00
179	179	179-M7(2p)/50_SSZ	15.0	1	5	2.50	320	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.06	7.00
180	180	180-M18(4p)/50_SS	5.0	1	20	2.50	310	0.10	21	1.00	No drainage effects	1.00	1.00	1.00	0.14	18.00
181	181	181-M14(4p)/50_SS	30.0	1	15	2.50	320	0.10	22	1.00	No drainage effects	1.00	1.00	1.00	0.21	14.00
182	182	182-M16(4p)/50_SS	30.0	1	20	2.50	320	0.10	18	1.00	No drainage effects	1.00	1.00	1.00	0.09	16.00
183	183	183-M14(4p)/50_SS	10.0	1	5	2.50	330	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.37	14.00
184	184	184-M15(4p)/50_SS	10.0	1	20	2.50	330	0.10	21	1.00	No drainage effects	1.00	1.00	1.00	0.13	15.00
185	185	185-M7(2p)/50_SSZ	15.0	1	100	2.50	320	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.28	7.00
186	186	186-M6(2p)/50_NeK	25.0	1	50	2.50	320	0.10	41	1.00	No drainage effects	1.00	1.00	1.00	0.32	6.00
187	187	187-M7(2p)/50_SSZ	25.0	1	60	2.50	320	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.11	7.00
188	188	188-M8(2p)/50_OK/	10.0	1	65	2.50	310	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.22	8.00
189	189	189-M8(2p)/50_OK/	20.0	1	10	2.50	310	0.10	28	1.00	No drainage effects	1.00	1.00	1.00	0.10	8.00
190	190	190-M7(2p)/50_SSZ	20.0	1	40	2.50	310	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.45	7.00
191	191	191-M8(2p)/50_SSZ	5.0	1	5	2.50	320	0.10	36	1.00	No drainage effects	1.00	1.00	1.00	0.38	8.00
192	192	192-M8(2p)/50_SSZ	5.0	1	5	2.50	330	0.10	43	1.00	No drainage effects	1.00	1.00	1.00	0.15	8.00
193	193	193-M8(2p)/50_SSZ	25.0	1	5	2.50	310	0.10	31	1.00	No drainage effects	1.00	1.00	1.00	0.16	8.00

HDM - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fall (m/km)	No. of Rises & Falls (/km)	Horizontal Curvature (deg/km)	Superelevation (%)	Altitude (m)	Sigma adra (m/s2)	Speed Limit (km/h)	Speed Enforcement Factor	Drain Type	NMT Friction (XNMT)	Side Friction (XFRI)	MT Friction (XMT)	Length (Km)	Width (m)
194	194	194-M8(2p)/50_SSZ	15.0	1	30	2.50	320	0.10	49	1.00	No drainage effects	1.00	1.00	1.00	1.18	8.00
195	195	195-M16(4p)/50_SS	15.0	1	60	2.50	340	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.74	16.00
196	196	196-M8(2p)/50_OK/	15.0	1	80	2.50	360	0.10	48	1.00	No drainage effects	1.00	1.00	1.00	0.89	8.00
197	197	197-M7(2p)/50_OK/	25.0	1	5	2.50	370	0.10	47	1.00	No drainage effects	1.00	1.00	1.00	0.71	7.00
198	198	198-M8(2p)/50_OK/	5.0	1	5	2.50	360	0.10	48	1.00	No drainage effects	1.00	1.00	1.00	1.04	8.00
199	199	199-M8(2p)/50_SSZ	20.0	1	5	2.50	360	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.20	8.00
200	200	200-M8(2p)/50_SSZ	15.0	1	75	2.50	420	0.10	32	1.00	No drainage effects	1.00	1.00	1.00	0.61	8.00
201	201	201-M8(2p)/50_SSZ	20.0	1	10	2.50	350	0.10	36	1.00	No drainage effects	1.00	1.00	1.00	0.13	8.00
202	202	202-M7(2p)/50_Nek	15.0	1	80	2.50	350	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.33	7.00
203	203	203-M7(2p)/50_SSZ	5.0	1	5	2.50	350	0.10	33	1.00	No drainage effects	1.00	1.00	1.00	0.09	7.00
204	204	M7(2p)/50	25.0	1	30	2.50	360	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.55	7.00
205	205	205-M7(2p)/50_SSZ	25.0	1	5	2.50	360	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.17	7.00
206	206	206-M6(2p)/50_OK/	10.0	1	100	2.50	350	0.10	47	1.00	No drainage effects	1.00	1.00	1.00	1.25	6.00
207	207	207-MS12(2p)/50_S	15.0	1	140	2.50	340	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	0.38	12.00
208	208	208-MS22,50(4p)/6	15.0	1	50	2.50	350	0.10	54	1.00	No drainage effects	1.00	1.00	1.00	1.43	18.50
209	209	209-M19(4p)/50_SS	20.0	1	140	2.50	400	0.10	18	1.00	No drainage effects	1.00	1.00	1.00	0.17	19.00
210A	210A	210-M8(2p)/50_SSZ	5.0	1	95	2.50	400	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.16	8.00
210B	210B	M8(2p)/50	5.0	1	95	2.50	400	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.18	8.00
211	211	M8(2p)/50	5.0	1	140	2.50	400	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.63	8.00
212	212	M8(2p)/50	15.0	1	200	2.50	410	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	1.27	8.00
213	213	213-M9(2p)/50_SSZ	25.0	1	45	2.50	410	0.10	41	1.00	No drainage effects	1.00	1.00	1.00	0.96	9.00
214	214	214-M8(2p)/50_SSZ	30.0	1	0	2.50	400	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.36	8.00
215	215	215-M7(2p)/50_OK/	10.0	1	95	2.50	400	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.49	7.00
216	216	216-M8(2p)/50_SSZ	40.0	1	25	2.50	400	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.60	8.00
217	217	217-M12(2p)/50_SS	15.0	1	45	2.50	400	0.10	34	1.00	No drainage effects	1.00	1.00	1.00	0.61	12.00
218	218	218-M7(2p)/50_SSZ	10.0	1	0	2.50	400	0.10	21	1.00	No drainage effects	1.00	1.00	1.00	0.22	7.00
219	219	M8(2p)/50	25.0	1	70	2.50	310	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.39	8.00
220	220	220-M8(2p)/50_SSZ	30.0	1	5	2.50	320	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.46	8.00
221	221	221-M18/(4p)/50_S	50.0	1	5	2.50	430	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	1.09	18.00
222	222	222-M16(4p)/50_SS	40.0	1	5	2.50	400	0.10	35	1.00	No drainage effects	1.00	1.00	1.00	0.51	16.00
223	223	223-M16(4p)/66_SS	40.0	1	5	2.50	400	0.10	61	1.00	No drainage effects	1.00	1.00	1.00	0.89	16.00
224	224	S22,5/90	25.0	1	5	2.50	420	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	2.24	18.50
225	225	S22,5/90	30.0	1	10	2.50	430	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	2.59	18.50

HDM - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fall (m/km)	No. of Rises & Falls (/km)	Horizontal Curvature (deg/km)	Superelevation (%)	Altitude (m)	Sigma adrai (m/s2)	Speed Limit (km/h)	Speed Enforcement Factor	Drain Type	NMT Friction (XNMT)	Side Friction (XFRI)	MT Friction (XMT)	Length (Km)	Width (m)
226	226	D27,5/130	30.0	1	15	2.50	330	0.10	130	1.00	No drainage effects	1.00	1.00	1.00	6.60	23.00
227	227	D27,5/130	10.0	1	25	2.50	375	0.10	130	1.00	No drainage effects	1.00	1.00	1.00	0.79	23.00
228	228	D27,5/130	25.0	1	20	2.50	370	0.10	130	1.00	No drainage effects	1.00	1.00	1.00	0.55	23.00
229	229	D27,5/130	35.0	1	30	2.50	375	0.10	130	1.00	No drainage effects	1.00	1.00	1.00	5.38	23.00
230A	230A	D27,5/130	15.0	1	10	2.50	350	0.10	130	1.00	No drainage effects	1.00	1.00	1.00	4.80	23.00
230B	230B	D27,5/130	15.0	1	10	2.50	350	0.10	130	1.00	No drainage effects	1.00	1.00	1.00	3.50	23.00
231	231	S22,5/90	10.0	1	5	2.50	350	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	2.90	18.50
232	232	232-M14(4p)/84_Ok	15.0	1	5	2.50	360	0.10	80	1.00	No drainage effects	1.00	1.00	1.00	0.83	14.00
233	233	233-S7.5(2p)/90_Ok	25.0	1	25	2.50	380	0.10	88	1.00	No drainage effects	1.00	1.00	1.00	1.98	6.50
234	234	S7,5/50_obec	15.0	1	60	2.50	360	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	1.14	6.50
235	235	S7,5/50_obec	25.0	1	80	2.50	350	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	1.16	6.50
236	236	236-S9.5(2p)/90_Ok	20.0	1	35	2.50	390	0.10	87	1.00	No drainage effects	1.00	1.00	1.00	2.86	8.50
237	237	237-S9.5(2p)/90_Ok	25.0	1	60	2.50	420	0.10	86	1.00	No drainage effects	1.00	1.00	1.00	1.22	8.50
238	238	238-S9.5(2p)/90_90	30.0	1	5	2.50	440	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.52	8.50
239	239	M6(1p)/50	30.0	1	40	2.50	310	0.10	50	1.00	No drainage effects	1.00	1.00	1.00	0.20	6.00
240	240	240-M7(2p)/50_OK/	5.0	1	5	2.50	340	0.10	38	1.00	No drainage effects	1.00	1.00	1.00	0.05	7.00
241	241	241-M7(2p)/50_SSz	5.0	1	5	2.50	310	0.10	37	1.00	No drainage effects	1.00	1.00	1.00	0.17	7.00
242	242	242-M7(2p)/50_Nek	5.0	1	140	2.50	310	0.10	44	1.00	No drainage effects	1.00	1.00	1.00	0.28	7.00
243	243	S7,5/90_100%	10.0	1	10	2.50	380	0.10	90	1.00	No drainage effects	1.00	1.00	1.00	1.45	6.50
244	244	M7(2p)/70	15.0	1	40	2.50	340	0.10	70	1.00	No drainage effects	1.00	1.00	1.00	1.12	7.00
N01	N01	N01-MS22.5(4p)/70	10.0	1	40	2.50	340	0.10	63	1.00	No drainage effects	1.00	1.00	1.00	1.02	16.00
N02	N02	N02-MS22.5(4p)/70	5.0	1	25	2.50	340	0.10	52	1.00	No drainage effects	1.00	1.00	1.00	0.23	16.00
N03	N03	N03-MS22.5(4p)/70	5.0	1	30	2.50	340	0.10	54	1.00	No drainage effects	1.00	1.00	1.00	0.29	16.00
N04	N04	N04-MS22.5(4p)/70	5.0	1	5	2.50	340	0.10	52	1.00	No drainage effects	1.00	1.00	1.00	0.21	16.00
N05a	N05A	N05A-MS22.5(4p)/7	10.0	1	40	2.50	340	0.10	55	1.00	No drainage effects	1.00	1.00	1.00	0.35	16.00
N05B	N05B	N05B-MS22.5(4p)/7	10.0	1	30	2.50	340	0.10	52	1.00	No drainage effects	1.00	1.00	1.00	0.26	16.00
N05C	N05C	N05C-M8(2p)/50_Sz	5.0	1	5	2.50	330	0.10	41	1.00	No drainage effects	1.00	1.00	1.00	0.06	8.00
N06	N06	N06-MS22.5(4p)/70	5.0	1	15	2.50	340	0.10	53	1.00	No drainage effects	1.00	1.00	1.00	0.51	17.00
N07	N07	N07-M8(2p)/50_SSz	10.0	1	60	2.50	330	0.10	44	1.00	No drainage effects	1.00	1.00	1.00	0.62	8.00
N08	N08	N08-S9.5(2p)/50_Sz	15.0	1	80	2.50	330	0.10	35	1.00	No drainage effects	1.00	1.00	1.00	0.13	8.50
N09	N09	N09-M8(2p)/50_SSz	15.0	1	50	2.50	330	0.10	39	1.00	No drainage effects	1.00	1.00	1.00	0.24	8.00
N10	N10	N10-MS17(4p)/70_Sz	5.0	1	5	2.50	340	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.10	17.00
N11	N11	N11-MS17(4p)/70 -	15.0	1	60	2.50	340	0.10	70	1.00	No drainage effects	1.00	1.00	1.00	1.62	17.50

H D M - 4 Road Sections - Geometry

ID	Name	Speed Flow Type	Rise + Fall (m/km)	No. of Rises & Falls (/km)	Horizontal Curvature (deg/km)	Superelevation (%)	Altitude (m)	Sigma adrad (m/s ²)	Speed Limit (km/h)	Speed Enforcement Factor	Drain Type	NMT Friction (XNMT)	Side Friction (XFRI)	MT Friction (XMT)	Length (Km)	Width (m)
N12	N12	N12-MS17(4p)/70_ξ	10.0	1	30	2.50	340	0.10	63	1.00	No drainage effects	1.00	1.00	1.00	1.10	17.50
N13	N13	N13-MS17(4p)/70_ξ	10.0	1	30	2.50	340	0.10	63	1.00	No drainage effects	1.00	1.00	1.00	1.12	17.00
N14	N14	N14-MS17(4p)/50_ξ	5.0	1	5	2.50	340	0.10	42	1.00	No drainage effects	1.00	1.00	1.00	0.38	17.00
N15	N15	N15-M6(1p)/50_OK	20.0	1	30	2.50	330	0.10	40	1.00	No drainage effects	1.00	1.00	1.00	0.28	6.00
N16	N16	N16-M8(2p)/50_OK	25.0	1	160	2.50	330	0.10	46	1.00	No drainage effects	1.00	1.00	1.00	0.60	8.00
N17	N17	N17-M8(2p)/50_Net	10.0	1	60	2.50	340	0.10	45	1.00	No drainage effects	1.00	1.00	1.00	0.31	8.00