

ROUTE 117 CL							
SEGMENT	LENGTH/ LONGUEUR (m)	RADIUS/ RAYON (m)	TANGENT OR CHORD AZIMUTH/AZIMUT TANGENTE OU CORDE	BEGIN STATION DÉBUT	PI OR/OU A	END STATION FIN	Δ
TANGENT 30	186.433		32° 30' 16.65"	STA: 13+681.271 E: 2617076.332 N: 7540316.166		STA: 13+867.704 E: 2617076.332 N: 7540473.394	
SPIRAL 51	50.000				A: 165.831		
CURVE 30	57.707	550.0	26° 53' 40.06"	STA: 13+917.704 E: 2617204.739 N: 7540515.960	E: 2617220.890 N: 7540540.055	STA: 13+975.411 E: 2617230.831 N: 7540567.402	6° 00' 41.8"
SPIRAL 52	50.000				A: 165.831		
TANGENT 31	59.274		21° 17' 03.49"	STA: 14+025.411 E: 2617249.682 N: 7540613.707		STA: 14+084.685 E: 2617249.682 N: 7540668.938	
SPIRAL 53	45.000				A: 232.379		
CURVE 31	64.138	1200.0	18° 40' 43.74"	STA: 14+129.685 E: 2617287.271 N: 7540710.969	E: 2617299.189 N: 7540740.788	STA: 14+193.824 E: 2617307.810 N: 7540771.722	3° 03' 44.6"
SPIRAL 54	45.000				A: 232.379		
TANGENT 32	86.296		16° 04' 23.99"	STA: 14+238.824 E: 2617320.538 N: 7540814.884		STA: 14+325.120 E: 2617320.538 N: 7540897.806	
SPIRAL 55	50.000				A: 135.093		
CURVE 32	110.855	365.0	28° 41' 54.25"	STA: 14+375.120 E: 2617359.365 N: 7540945.513	E: 2617374.005 N: 7541000.446	STA: 14+485.975 E: 2617412.393 N: 7541042.377	17° 24' 05.1"
SPIRAL 56	50.000				A: 135.093		
TANGENT 33	137.096		41° 19' 24.59"	STA: 14+535.975 E: 2617444.536 N: 7541080.663		STA: 14+673.071 E: 2617444.536 N: 7541183.621	
SPIRAL 57	62.500				A: 133.463		
CURVE 33	131.519	285.0	21° 49' 15.37"	STA: 14+735.571 E: 2617574.567 N: 7541232.009	E: 2617622.472 N: 7541283.036	STA: 14+867.089 E: 2617623.021 N: 7541353.024	26° 26' 24.9"
SPIRAL 58	62.500				A: 133.464		
TANGENT 34	507.209		2° 19' 06.04"	STA: 14+929.590 E: 2617627.827 N: 7541415.306		STA: 15+436.798 E: 2617627.827 N: 7541922.099	
CURVE 34	204.623	9000.0	2° 58' 10.84"	STA: 15+436.798 E: 2617648.344 N: 7541922.099	E: 2617652.483 N: 7542024.331	STA: 15+641.421 E: 2617658.945 N: 7542126.443	1° 18' 09.6"

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 30	RADIUS = 550.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
13+823.30	-0.030	7.037	-0.030	NORMAL CROWN
13+867.70	-0.030	6.736	0.000	LEVEL CROWN
13+900.31	-0.030	6.499	0.030	REVERSE CROWN
13+917.70	-0.046	6.373	0.046	BEGIN FULL SUPER
13+975.41	-0.046	6.035	0.046	END FULL SUPER
13+992.80	-0.030	5.982	0.030	REVERSE CROWN
14+025.41	-0.030	5.955	0.000	LEVEL CROWN
14+048.16	-0.030	6.005	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 31	RADIUS = 1200.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
14+055.68	-0.030	6.034	0.030	NORMAL CROWN
14+084.69	-0.030	6.188	0.030	LEVEL CROWN
14+129.69	-0.030	6.411	0.030	REVERSE CROWN
14+129.69	-0.030	6.411	0.030	BEGIN FULL SUPER
14+193.82	-0.030	6.625	0.030	END FULL SUPER
14+193.82	-0.030	6.625	0.030	REVERSE CROWN
14+238.82	-0.030	6.707	0.000	LEVEL CROWN
14+281.87	-0.030	6.791	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 32	RADIUS = 365.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
14+282.07	-0.030	6.792	-0.030	NORMAL CROWN
14+325.12	0.000	7.076	-0.030	LEVEL CROWN
14+352.90	0.030	7.355	-0.030	REVERSE CROWN
14+375.12	0.054	7.580	-0.054	BEGIN FULL SUPER
14+485.97	0.054	8.349	-0.054	END FULL SUPER
14+508.20	0.030	8.362	-0.030	REVERSE CROWN
14+535.98	0.000	8.379	-0.030	LEVEL CROWN
14+580.38	-0.030	8.406	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 33	RADIUS = 285.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
14+628.67	-0.030	8.435	-0.030	NORMAL CROWN
14+673.07	-0.030	8.482	0.000	LEVEL CROWN
14+704.32	-0.030	8.481	0.060	REVERSE CROWN
14+735.57	-0.060	8.500	0.060	BEGIN FULL SUPER
14+867.09	-0.060	8.579	0.030	END FULL SUPER
14+898.34	-0.030	8.598	0.000	LEVEL CROWN
14+929.59	-0.030	8.617	0.000	LEVEL CROWN
14+973.99	-0.030	8.644	-0.030	NORMAL CROWN

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TANGENT 35	90.082		3° 37' 15.64"	STA: 15+641.421 E: 2617658.945 N: 7542126.443		STA: 15+731.503 E: 2617658.945 N: 7542216.345	
SPIRAL 59	45.000				A: 318.904		
CURVE 35	163.858	2260.0	6° 16' 06.63"	STA: 15+776.503 E: 2617687.025 N: 7542261.245	E: 2617672.655 N: 7542343.098	STA: 15+940.361 E: 2617685.512 N: 7542424.088	4° 09' 14.9"
SPIRAL 60	45.000				A: 318.905		
TANGENT 36	394.291		6° 54' 57.62"	STA: 15+985.361 E: 2617692.339 N: 7542468.567		STA: 16+379.652 E: 2617793.012 N: 7542858.094	
SPIRAL 61	50.000				A: 158.114		
CURVE 36	102.407	500.0	17° 38' 53.74"	STA: 16+429.652 E: 2617762.029 N: 7542907.346	E: 2617769.231 N: 7542958.692	STA: 16+532.059 E: 2617793.012 N: 7543004.764	11° 44' 05.8"
SPIRAL 62	50.000				A: 158.114		
TANGENT 37	48.402		26° 22' 49.88"	STA: 16+582.059 E: 2617814.477 N: 7543049.917		STA: 16+630.461 E: 2617814.477 N: 7543093.279	
SPIRAL 63	51.000				A: 174.929		
CURVE 37	153.314	600.0	16° 37' 30.91"	STA: 16+681.461 E: 2617808.555 N: 7543138.280	E: 2617893.182 N: 7543208.563	STA: 16+834.775 E: 2617901.739 N: 7543265.786	14° 38' 25.4"
SPIRAL 64	51.000				A: 174.929		
TANGENT 38	143.851		6° 52' 11.89"	STA: 16+885.776 E: 2617908.555 N: 7543336.324		STA: 17+029.827 E: 2617908.555 N: 7543479.143	
SPIRAL 65	50.000				A: 193.649		
CURVE 38	80.710	750.0	11° 51' 45.83"	STA: 17+079.627 E: 2617936.591 N: 7543528.712	E: 2617936.591 N: 7543569.025	STA: 17+160.337 E: 2617948.877 N: 7543607.660	6° 09' 56.9"
SPIRAL 66	50.000				A: 193.649		
TANGENT 39	42.550		16° 51' 19.76"	STA: 17+210.337 E: 2617962.842 N: 7543655.668		STA: 17+252.887 E: 2617962.842 N: 7543696.390	
SPIRAL 67	50.000				A: 212.132		

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 35	RADIUS = 2260.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
15+687.10	-0.030	10.448	-0.030	NORMAL CROWN
15+731.50	0.000	10.420	-0.030	LEVEL CROWN
15+776.50	0.030	10.644	-0.030	REVERSE CROWN
15+776.50	0.030	10.644	-0.030	BEGIN FULL SUPER
15+840.36	0.030	11.289	-0.030	END FULL SUPER
15+840.36	0.030	11.289	-0.030	REVERSE CROWN
15+985.36	0.000	11.324	-0.030	LEVEL CROWN
16+029.76	-0.030	11.358	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 36	RADIUS = 500.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
16+335.25	-0.030	11.170	-0.030	NORMAL CROWN
16+379.65	0.000	11.157	-0.030	LEVEL CROWN
16+412.26	0.030	11.186	-0.030	REVERSE CROWN
16+429.65	0.046	11.202	-0.046	BEGIN FULL SUPER
16+432.06	0.046	11.002	-0.046	END FULL SUPER
16+549.45	0.030	10.893	-0.030	REVERSE CROWN
16+582.06	0.000	10.781	-0.030	LEVEL CROWN
16+586.46	-0.030	10.777	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 37	RADIUS = 600.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
16+626.06	-0.030	10.815	-0.003	NORMAL CROWN
16+630.46	-0.030	10.820	0.000	LEVEL CROWN
16+666.89	-0.030	10.866	0.030	REVERSE CROWN
16+681.46	-0.042	10.885	0.042	BEGIN FULL SUPER
16+634.78	-0.042	11.078	0.042	END FULL SUPER
16+849.35	-0.030	11.097	0.030	REVERSE CROWN
16+885.78	-0.030	11.143	0.000	LEVEL CROWN
16+930.18	-0.030	11.199	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU SUPERÉLEVATION				
CURVE 38	RADIUS = 750.0			Emax = 0.060
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
16+985.23	-0.030	11.279	-0.030	NORMAL CROWN
17+029.63	0.000	11.355	-0.030	LEVEL CROWN
17+068.09	0.030	11.430	-0.030	REVERSE CROWN
17+079.63	0.039	11.454	-0.039	BEGIN FULL SUPER
17+160.34	0.039	11.640	-0.039	END FULL SUPER
17+171.88	0.030	11.668	-0.030	REVERSE CROWN
17+207.89	0.002	11.754	-0.030	LEVEL CROWN
17+210.34	0.000	11.760	-0.028	NORMAL CROWN

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CURVE 39	95.784	900.0	12° 12' 54.19"	STA: 17+302.887 E: 2617969.233 N: 7543744.372	E: 2618003.613 N: 7543790.237 A: 212.132	STA: 17+398.670 E: 2618009.490 N: 7543837.943	6° 05' 52.0"
SPIRAL 68	50.000						
TANGENT 40	135.483		7° 34' 28.63"	STA: 17+448.670 E: 2618016.539 N: 7543887.442		STA: 17+584.153 E: 2618016.539 N: 7544021.742	
SPIRAL 69	45.000				A: 242.796		
CURVE 40	106.689	1310.0	10° 53' 30.68"	STA: 17+629.153 E: 2618040.565 N: 7544066.314	E: 2618047.373 N: 7544119.316 A: 242.796	STA: 17+735.842 E: 2618060.739 N: 7544171.053	4° 39' 58.7"
SPIRAL 70	45.000						
TANGENT 41	223.367		14° 12' 32.73"	STA: 17+780.842 E: 2618071.535 N: 7544214.738	A: 150.831	STA: 18+004.210 E: 2618071.535 N: 7544431.272	
SPIRAL 71	50.000						
CURVE 41	115.482	455.0	24° 37' 41.75"	STA: 18+054.210 E: 2618139.520 N: 7544479.503	E: 2618153.046 N: 7544536.651 A: 150.831	STA: 18+169.692 E: 2618187.515 N: 7544584.198	14° 32' 31.6"
SPIRAL 72	50.000						
TANGENT 42	408.889		35° 02' 50.76"	STA: 18+219.692 E: 2618215.470 N: 7544625.645	A: 190.394	STA: 18+628.581 E: 2618215.470 N: 7544960.394	
SPIRAL 73	50.000						
CURVE 42	326.484	725.0	20° 10' 15.27"	STA: 18+678.581 E: 2618478.515 N: 7545001.653	E: 2618575.249 N: 7545138.559 A: 190.394	STA: 19+005.066 E: 2618629.145 N: 7545305.530	25° 48' 05.8"
SPIRAL 74	50.000						
TANGENT 43	243.568		5° 17' 39.80"	STA: 19+055.085 E: 2618595.331 N: 7545355.258	E: 2618627.356 N: 7545700.854 A: 133.417	STA: 19+298.633 E: 2618595.331 N: 7545597.787	
CURVE 43	206.936	3000.0	3° 19' 05.88"	STA: 19+298.633 E: 2618617.805 N: 7545597.787		STA: 19+505.569 E: 2618629.781 N: 7545946.637	3° 57' 07.8"
TANGENT 44	142.342		1° 20' 31.96"	STA: 19+505.569 E: 2618629.781 N: 7545804.334			
SPIRAL 75	50.000						