

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
CURVE 44	419.000	356.0	39° 05' 00.24"	STA: 19+697.911 E: 2618635.455 N: 7545996.571	E: 2618640.161 N: 7546247.334	STA: 20+116.911 E: 2618884.629 N: 7546303.361	67° 26' 06.8"
SPIRAL 76	50.000				A: 133.417		
TANGENT 45	223.007		76° 49' 28.59"	STA: 20+166.911 E: 2618933.023 N: 7546315.892		STA: 20+389.919 E: 2619150.160 N: 7546366.722	
SPIRAL 77	50.000				A: 147.817		
CURVE 45	357.773	437.0	50° 05' 33.90"	STA: 20+439.919 E: 2619188.611 N: 7546379.043	E: 2619388.915 N: 7546422.614	STA: 20+797.691 E: 2619452.089 N: 7546602.214	46° 54' 29.3"
SPIRAL 78	50.000				A: 147.817		
TANGENT 46	42.295		23° 21' 39.27"	STA: 20+847.691 E: 2619466.146 N: 7546647.722		STA: 20+889.986 E: 2619502.917 N: 7546686.550	
SPIRAL 79	50.000				A: 171.756		
CURVE 46	96.776	590.0	30° 29' 15.85"	STA: 20+939.986 E: 2619523.388 N: 7546732.163	E: 2619542.089 N: 7546777.241	STA: 21+036.762 E: 2619724.432 N: 7546815.465	9° 23' 53.1"
SPIRAL 80	50.000				A: 171.756		
TANGENT 47	411.185		37° 36' 52.46"	STA: 21+086.762 E: 2619602.385 N: 7546855.496		STA: 21+497.948 E: 2619853.351 N: 7547181.210	
SPIRAL 81	51.000				A: 186.226		
CURVE 47	125.968	680.0	45° 04' 12.32"	STA: 21+548.948 E: 2619884.979 N: 7547221.214	E: 2619923.239 N: 7547271.915	STA: 21+674.915 E: 2619974.033 N: 7547310.051	10° 36' 49.8"
SPIRAL 82	51.000				A: 186.226		
TANGENT 48	159.452		52° 31' 32.19"	STA: 21+725.915 E: 2620014.115 N: 7547341.583		STA: 21+885.367 E: 2620140.659 N: 7547388.593	
CURVE 48	142.878	3000.0	51° 09' 40.41"	STA: 21+885.367 E: 2620140.659 N: 7547388.593	E: 2620197.366 N: 7547482.065	STA: 22+028.245 E: 2620251.938 N: 7547528.187	2° 43' 43.6"
TANGENT 49	297.775		49° 47' 48.63"	STA: 22+028.245 E: 2620251.938 N: 7547528.187		STA: 22+326.020 E: 2620479.367 N: 7547720.401	
SPIRAL 83	62.500				A: 129.422		

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 44	RADIUS/RAYON = 356.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
19+603.51	-0.030	12.125	-0.030	NORMAL CROWN
19+647.91	0.000	12.332	-0.030	LEVEL CROWN
19+675.69	0.030	12.467	-0.030	REVERSE CROWN
19+697.91	0.054	12.574	-0.054	BEGIN FULL SUPER
20+116.91	0.054	11.396	-0.054	END FULL SUPER
20+139.13	0.030	11.193	-0.030	REVERSE CROWN
20+166.91	0.000	10.943	-0.030	LEVEL CROWN
20+211.31	-0.030	10.628	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 45	RADIUS/RAYON = 437.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
20+345.52	-0.030	9.909	0.030	NORMAL CROWN
20+389.92	-0.030	9.386	0.000	LEVEL CROWN
20+419.33	-0.030	9.096	0.030	REVERSE CROWN
20+439.92	-0.051	8.969	0.051	BEGIN FULL SUPER
20+797.69	-0.051	8.504	0.051	END FULL SUPER
20+818.28	-0.030	8.469	0.030	REVERSE CROWN
20+845.99	-0.030	8.484	0.002	LEVEL CROWN
20+847.69	-0.029	8.487	0.000	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 46	RADIUS/RAYON = 590.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
20+889.99	0.000	8.658	-0.029	NORMAL CROWN
20+891.69	0.002	8.668	-0.030	LEVEL CROWN
20+922.59	0.030	8.903	-0.030	REVERSE CROWN
20+939.99	0.046	9.047	-0.046	BEGIN FULL SUPER
21+036.76	0.046	9.602	-0.046	END FULL SUPER
21+054.15	0.030	9.659	-0.030	REVERSE CROWN
21+086.75	0.000	9.729	-0.030	LEVEL CROWN
21+131.16	-0.030	9.788	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 47	RADIUS/RAYON = 680.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
21+453.55	-0.030	10.545	-0.030	NORMAL CROWN
21+497.95	0.000	10.735	-0.030	LEVEL CROWN
21+534.38	0.030	10.757	-0.030	REVERSE CROWN
21+548.95	0.042	10.758	-0.042	BEGIN FULL SUPER
21+674.92	0.042	10.713	-0.042	END FULL SUPER
21+689.49	0.030	10.676	-0.030	REVERSE CROWN
21+725.92	0.000	10.539	-0.030	LEVEL CROWN
21+770.32	-0.030	10.324	-0.030	NORMAL CROWN

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
CURVE 49	110.998	268.0	31° 15' 02.66"	STA: 22+388.520 E: 2620525.471 N: 7547762.544		STA: 22+499.518 E: 2620582.444 N: 7547856.760	23° 43' 49.1"
SPIRAL 84	62.500				A: 129.422		
TANGENT 50	45.073		12° 42' 16.62"	STA: 22+562.018 E: 2620598.738 N: 7547917.113		STA: 22+607.091 E: 2620608.651 N: 7547961.082	
SPIRAL 85	50.000				A: 158.114		
CURVE 50	75.512	500.0	19° 53' 45.35"	STA: 22+657.091 E: 2620628.029 N: 7548009.663	E: 2620628.029 N: 7548047.037	STA: 22+732.603 E: 2620641.131 N: 7548080.600	8° 39' 11.0"
SPIRAL 86	50.000				A: 158.114		
TANGENT 51	139.892		27° 05' 14.09"	STA: 22+782.603 E: 2620668.150 N: 7548125.484		STA: 22+922.495 E: 2620731.850 N: 7548250.032	
SPIRAL 87	50.000				A: 158.114		
CURVE 51	81.400	500.0	34° 36' 57.24"	STA: 22+972.495 E: 2620755.353 N: 7548294.157	E: 2620773.335 N: 7548331.145	STA: 23+053.895 E: 2620801.543 N: 7548361.073	9° 19' 39.8"
SPIRAL 88	50.000				A: 158.114		
TANGENT 52	52.066		42° 08' 40.39"	STA: 23+103.895 E: 2620834.467 N: 7548398.696		STA: 23+155.961 E: 2620869.404 N: 7548437.301	
SPIRAL 89	50.000				A: 148.324		
CURVE 52	161.972	440.0	28° 20' 36.00"	STA: 23+205.961 E: 2620902.241 N: 7548474.997	E: 2620958.741 N: 7548536.018	STA: 23+367.933 E: 2620978.704 N: 7548616.747	21° 05' 29.6"
SPIRAL 90	50.000				A: 148.324		
TANGENT 53	157.517		14° 32' 31.61"	STA: 23+417.933 E: 2620992.171 N: 7548564.892		STA: 23+575.450 E: 2621031.723 N: 7548617.363	
CURVE 53	91.043	10000.0	14° 48' 10.56"	STA: 23+575.450 E: 2621031.723 N: 7548617.363	E: 2621043.153 N: 7548861.428	STA: 23+666.493 E: 2621054.984 N: 7548905.384	0° 31' 17.9"
TANGENT 54	82.216		15° 03' 49.51"	STA: 23+666.493 E: 2621054.984 N: 7548905.384		STA: 23+748.709 E: 2621076.351 N: 7548964.775	

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 49	RADIUS/RAYON = 268.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
22+281.62	-0.030	8.958	-0.030	NORMAL CROWN
22+326.02	-0.030	8.838	0.000	LEVEL CROWN
22+357.27	-0.030	8.661	0.030	REVERSE CROWN
22+388.52	-0.060	8.464	0.060	BEGIN FULL SUPER
22+499.52	-0.060	8.643	0.060	END FULL SUPER
22+530.77	-0.030	8.776	0.030	REVERSE CROWN
22+562.02	-0.030	8.816	0.000	LEVEL CROWN
22+563.09	-0.030	8.815	-0.007	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 50	RADIUS/RAYON = 500.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
22+606.02	-0.007	8.727	-0.030	NORMAL CROWN
22+607.09	0.000	8.725	-0.030	LEVEL CROWN
22+639.70	0.030	8.692	-0.030	REVERSE CROWN
22+657.09	0.046	8.704	-0.046	BEGIN FULL SUPER
22+732.60	0.046	8.863	-0.046	END FULL SUPER
22+749.99	0.030	8.868	-0.030	REVERSE CROWN
22+782.60	0.000	8.820	-0.030	LEVEL CROWN
22+827.00	-0.030	8.702	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 51	RADIUS/RAYON = 500.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
22+878.09	-0.030	8.566	-0.030	NORMAL CROWN
22+922.49	0.000	8.447	-0.030	LEVEL CROWN
22+955.10	0.030	8.339	-0.030	REVERSE CROWN
22+972.49	0.046	8.247	-0.046	BEGIN FULL SUPER
23+053.89	0.046	7.490	-0.046	END FULL SUPER
23+071.29	0.030	7.297	-0.030	REVERSE CROWN
23+103.89	0.000	7.127	-0.030	LEVEL CROWN
23+111.96	-0.006	7.137	-0.030	NORMAL CROWN

SUPERELEVATION DEVELOPMENT / DÉVELOPPEMENT DU DÉVERS				
CURVE/COURBE 52	RADIUS/RAYON = 440.0			E _{max} = 0.060
STATION/CHAINAGE	LEFT LANE/VOIE DE GAUCHE	CL. ELEV.	RIGHT LANE/VOIE DE DROITE	DESCRIPTION
23+147.89	-0.030	7.196	-0.006	NORMAL CROWN
23+155.96	-0.030	7.221	0.000	LEVEL CROWN
23+185.37	-0.030	7.343	0.030	REVERSE CROWN
23+205.96	-0.051	7.394	0.051	BEGIN FULL SUPER
23+367.93	-0.051	6.238	0.051	END FULL SUPER
23+388.52	-0.030	5.745	0.030	REVERSE CROWN
23+417.93	-0.030	4.872	0.000	LEVEL CROWN
23+462.33	-0.030	3.391	-0.030	NORMAL CROWN



STANTEC
645 Prospect Street
Fredericton NB
Tel. 506.452.7000
www.stantec.com



2	ISSUED FOR TENDER	05/22/2015
---	-------------------	------------

project ROUTE 117 REHABILITATION
REHABILITATION ROUTE 117
PARC NATIONAL
KOUCHIBOUGUAC
NATIONAL PARK
COMTE DE KENT COUNTY, NB

designer P.J.F. conçoit
date 2015/04/14
drawn J.L.D. dessine
date 2015/04/14
approved
date
Tender Submission
PWGSC Project Manager Administrateur de projets TPWGC
project number no. du projet
R.070695.001
drawing no. no. du dessin
C55 OF/DE C82