TABELA DE CURVAS (C)

CURVA	DESENVOLVI-MENTO (m)	RAIO (m)	ÂNGULO CENTRAL	CORDA (m)	TANGENTE (m)	COORDENADAS DOS PONTOS DE TANGÊNCIA N	COORDENADAS DOS PONTOS DE TANGÊNCIA E	PC N	PC E	PT N	PT E
C1	17.40	39.00	25°34'00"	17.26	8.85	7.446.913,215	274.429,019	7.446.921,594	274.426,173	7.446.904,429	274.427,972
C2	101.88	111.00	52°35'12"	98.34	54.84	7.446.973,521	274.408,528	7.446.921,594	274.426,173	7.447.019,085	274.439,053
C3	31.57	89.00	20°19'31"	31.41	15.95	7.447.032,340	274.447,933	7.447.047,853	274.451,655	7.447.019,085	274.439,053
C4	31.86	20.00	91°15'34"	28.59	20.44	7.447.122,175	274.475,890	7.447.131,315	274.457,603	7.447.104,093	274.466,351
C5	23.21	150.00	8°52'03"	23.19	11.63	7.447.136,515	274.447,199	7.447.140,048	274.436,118	7.447.131,315	274.457,603
C6	4.13	7.00	33°50'25"	4.07	2.13	7.447.140,695	274.434,089	7.447.140,103	274.432,044	7.447.140,048	274.436,118
C7	6.77	13.00	29°50'55"	6.70	3.46	7.447.139,139	274.428,716	7.447.140,103	274.432,044	7.447.139,959	274.425,349
C8	13.86	147.00	5°24'05"	13.85	6.93	7.447.141,601	274.418,613	7.447.142,602	274.411,751	7.447.139,959	274.425,349
C9	6.77	13.00	29°50'55"	6.70	3.46	7.447.143,101	274.408,322	7.447.142,602	274.411,751	7.447.145,241	274.405,597
C10	4.13	7.00	33°50'25"	4.07	2.13	7.447.146,557	274.403,923	7.447.146,716	274.401,799	7.447.145,241	274.405,597
C11	98.53	150.00	37°38'12"	96.77	51.12	7.447.150,552	274.350,825	7.447.122,462	274.308,117	7.447.146,716	274.401,799
C12	23.51	12.00	112°14'37"	19.93	17.87	7.447.229,674	274.748,210	7.447.243,604	274.737,012	7.447.224,583	274.731,078
C13	29.37	89.00	18°54'27"	29.24	14.82	7.447.212,910	274.691,803	7.447.217,132	274.706,009	7.447.213,520	274.676,996
C14	74.23	111.00	38°18'50"	72.85	38.56	7.447.215,105	274.638,468	7.447.192,462	274.607,255	7.447.213,520	274.676,996
C15	28.49	89.00	18°20'20"	28.37	14.37	7.447.184,026	274.595,626	7.447.192,462	274.607,255	7.447.179,678	274.581,934
C16	42.28	47.00	51°32'43"	40.87	22.69	7.447.153,843	274.505,591	7.447.161,144	274.527,078	7.447.166,129	274.486,511
C17	20.14	20.00	57°41'36"	19.30	11.02	7.447.172,094	274.477,249	7.447.166,129	274.486,511	7.447.183,109	274.477,340
C18	11.99	9.00	76°19'26"	11.12	7.07	7.447.194,685	274.428,434	7.447.192,956	274.435,292	7.447.201,758	274.428,492
C19	6.75	120.00	3°13'25"	6.75	3.38	7.447.192,131	274.438,566	7.447.192,956	274.435,292	7.447.191,123	274.441,788
C20	16.79	9.00	106°53'59"	14.46	12.14	7.447.187,498	274.453,375	7.447.199,638	274.453,475	7.447.191,123	274.441,788
C21	19.93	30.00	38°04'20"	19.57	10.35	7.447.222,652	274.477,666	7.447.212,302	274.477,580	7.447.230,748	274.484,116
C22	24.87	17.00	83°50'13"	22.71	15.26	7.447.242,686	274.493,626	7.447.253,423	274.482,779	7.447.230,748	274.484,116
C23	44.37	30.00	84°44'28"	40.44	27.37	7.447.272,674	274.463,330	7.447.253,423	274.482,779	7.447.293,806	274.480,717
C24	20.62	56.00	21°05'56"	20.51	10.43	7.447.301,859	274.487,344	7.447.293,806	274.480,717	7.447.306,987	274.496,425
C25	73.40	70.00	60°04'30"	70.08	40.48	7.447.299,276	274.454,296	7.447.258,801	274.453,963	7.447.319,178	274.489,541
C26	87.13	83.10	60°04'30"	83.20	48.05	7.447.294,335	274.429,255	7.447.246,286	274.428,859	7.447.317,962	274.471,096
C27	54.42	32.00	97°25'52"	48.09	36.44	7.447.308,734	274.416,508	7.447.317,391	274.441,661	7.447.332,759	274.396,091
C28	4.52	414.00	0°37'34"	4.52	2.26	7.447.318,524	274.443,619	7.447.317,391	274.441,661	7.447.319,637	274.445,589
C29	97.68	50.00	111°55'55"	82.87	74.03	7.447.309,373	274.417,448	7.447.350,968	274.478,692	7.447.381,720	274.401,738
C30	12.36	15.00	47°13'31"	12.02	6.56	7.447.356,033	274.583,280	7.447.352,809	274.577,571	7.447.354,032	274.589,525
C31	22.58	17.00	76°05'12"	20.95	13.30	7.447.349,971	274.602,193	7.447.361,291	274.609,180	7.447.354,032	274.589,525
C32	8.93	15.00	34°05'36"	8.79	4.60	7.447.365,205	274.611,596	7.447.361,291	274.609,180	7.447.367,092	274.615,790
C33	19.75	15.00	75°25'33"	18.35	11.60	7.447.374,344	274.631,912	7.447.369,586	274.621,335	7.447.365,305	274.639,179
C34	12.78	7.00	104°34'27"	11.08	9.05	7.447.392,866	274.617,023	7.447.399,922	274.611,351	7.447.389,153	274.608,767
C35	8.93	15.00	34°05'36"	8.79	4.60	7.447.386,180	274.602,160	7.447.388,067	274.606,354	7.447.386,969	274.597,629
C36	25.29	17.00	85°13'40"	23.02	15.64	7.447.389,650	274.582,220	7.447.374,519	274.578,266	7.447.386,969	274.597,629
C37	12.02	15.00	45°54'09"	11.70	6.35	7.447.368,373	274.576,660	7.447.374,519	274.578,266	7.447.365,250	274.571,129
C38	25.75	12.00	122°57'49"	21.09	22.08	7.447.403,718	274.604,450	7.447.420,931	274.590,613	7.447.401,474	274.582,480
C39	6.34	9.00	40°22'03"	6.21	3.31	7.447.400,609	274.579,447	7.447.398,750	274.576,899	7.447.401,474	274.582,480
C40	8.45	12.00	40°22'03"	8.28	4.41	7.447.418,534	274.569,547	7.447.414,131	274.569,282	7.447.421,718	274.572,600
C41	6.34	9.00	40°22'03"	6.21	3.31	7.447.410,828	274.569,084	7.447.414,131	274.569,282	7.447.408,441	274.566,794
C42	25.89	11.00	134°50'08"	20.31	26.45	7.447.361,970	274.522,229	7.447.381,060	274.540,536	7.447.388,412	274.521,600
C43	46.20	69.00	38°21'48"	45.34	24.00	7.447.412,409	274.521,029	7.447.430,870	274.505,687	7.447.388,412	274.521,600
C44	96.26	55.00	100°16'26"	84.43	65.87	7.447.371,265	274.537,016	7.447.421,922	274.494,920	7.447.338,878	274.479,663
C45	112.19	50.00	128°33'49"	90.09	103.81	7.447.450,995	274.549,768	7.447.442,148	274.446,338	7.447.364,607	274.492,209
C46	47.93	164.00	16°44'46"	47.76	24.14	7.447.352,853	274.532,883	7.447.370,275	274.549,590	7.447.340,984	274.511,864
C47	15.15	9.00	96°28'20"	13.43	10.08	7.447.448,186	274.491,297	7.447.455,461	274.498,273	7.447.455,938	274.484,856
C48	13.12	9.00	83°31'40"	11.99	8.04	7.447.437,350	274.500,302	7.447.431,169	274.505,439	7.447.443,150	274.505,865
C49	6.34	9.00	40°22'03"	6.21	3.31	7.447.487,149	274.528,662	7.447.490,451	274.528,860	7.447.484,761	274.526,372
C50	6.34	9.00	40°22'03"	6.21	3.31	7.447.477,459	274.538,767	7.447.475,071	274.536,477	7.447.477,795	274.542,058
C51	54.61	12.00	260°44'07"	18.29	14.12	7.447.476,360	274.528,015	7.447.490,451	274.528,860	7.447.477,795	274.542,058
C52	54.61	12.00	260°44'07"	18.29	14.12	7.447.539,111	274.477,350	7.447.553,201	274.478,196	7.447.540,545	274.491,393
C53	6.34	9.00	40°22'03"	6.21	3.31	7.447.540,209	274.488,102	7.447.537,821	274.485,812	7.447.540,545	274.491,393
C54	6.34	9.00	40°22'03"	6.21	3.31	7.447.549,899	274.477,998	7.447.553,201	274.478,196	7.447.547,511	274.475,708
C55	13.12	9.00	83°31'40"	11.99	8.04	7.447.499,273	274.448,844	7.447.493,092	274.453,981	7.447.505,073	274.454,407
C56	15.15	9.00	96°28'20"	13.43	10.08	7.447.510,109	274.439,839	7.447.517,384	274.446,815	7.447.517,861	274.433,398
C57	54.61	12.00	260°44'07"	18.29	14.12	7.447.602,082	274.426,898	7.447.616,173	274.427,743	7.447.603,516	274.440,941
C58	6.34	9.00	40°22'03"	6.21	3.31	7.447.603,180	274.437,650	7.447.600,792	274.435,360	7.447.603,516	274.440,941
C59	6.34	9.00	40°22'03"	6.21	3.31	7.447.612,871	274.427,545	7.447.616,173	274.427,743	7.447.610,483	274.425,255
C60	8.22	120.00	3°55'24"	8.22	4.11	7.447.552,357	274.404,731	7.447.549,196	274.407,358	7.447.555,691	274.402,327
C61	12.50	9.00	79°36'16"	11.52	7.50	7.447.561,773	274.397,940	7.447.555,691	274.402,327	7.447.567,185	274.403,130
C62	18.53	9.00	117°57'07"	15.43	14.96	7.447.574,106	274.390,370	7.447.584,906	274.400,727	7.447.588,318	274.385,684
C63	3.56	120.00	1°41'57"	3.56	1.78	7.447.590,007	274.385,127	7.447.588,318	274.385,684	7.447.591,713	274.384,620
C64	54.21	134.00	23°10'43"	53.84	27.48	7.447.561,384	274.379,027	7.447.540,248	274.396,590	7.447.587,726	274.371,200
C65	31.05	60.00	29°39'03"	30.71	15.88	7.447.602,949	274.366,677	7.447.613,941	274.355,215	7.447.587,726	274.371,200
C66	38.30	74.00	29°39'03"	37.87	19.59	7.447.610,489	274.379,042	7.447.624,046	274.364,905	7.447.591,713	274.384,620
C67	14.14	9.00	90°00'00"	12.73	9.00	7.447.633,082	274.355,483	7.447.626,852	274.361,979	7.447.639,577	274.361,712
C68	6.34	9.00	40°22'03"	6.21	3.31	7.447.666,436	274.387,470	7.447.664,048	274.385,180	7.447.666,772	274.390,761
C69	54.61	12.00	260°44'07"	18.29	14.12	7.447.665,338	274.376,718	7.447.679,428	274.377,563	7.447.666,772	274.390,761
C70	6.34	9.00	40°22'03"	6.21	3.31	7.447.676,126	274.377,365	7.447.679,428	274.377,563	7.447.673,738	274.375,075
C71	14.14	9.00	90°00'00"	12.73	9.00	7.447.642,772	274.345,379	7.447.649,267	274.351,608	7.447.649,001	274.338,883
C72	5.13	9.00	32°38'13"	5.06	2.63	7.447.652,979	274.334,735	7.447.651,155	274.336,636	7.447.655,541	274.334,117
C73	5.70	10.00	32°38'13"	5.62	2.93	7.447.658,387	274.333,430	7.447.660,413	274.331,317	7.447.655,541	274.334,117

TABELA DE CURVAS (C)

CURVA	DESENVOLVI-MENTO (m)	RAIO (m)	ÂNGULO CENTRAL	CORDA (m)	TANGENTE (m)	COORDENADAS DOS PONTOS DE TANGÊNCIA N	COORDENADAS DOS PONTOS DE TANGÊNCIA E	PC N	PC E	PT N	PT E
C74	5.13	9.00	32°38'13"	5.06	2.63	7.447.642,875	274.325,045	7.447.643,385	274.322,459	7.447.641,051	274.326,946
C75	5.70	10.00	32°38'13"	5.62	2.93	7.447.643,952	274.319,587	7.447.643,385	274.322,459	7.447.645,978	274.317,474
C76	42.27	120.00	20°10'55"	42.05	21.36	7.447.186,786	274.353,861	7.447.174,416	274.336,453	7.447.192,391	274.374,468
C77	19.46	15.00	74°18'49"	18.12	11.37	7.447.195,374	274.385,438	7.447.206,741	274.385,531	7.447.192,391	274.374,468
C78	25.98	11.00	135°19'56"	20.35	26.78	7.447.261,561	274.385,983	7.447.242,674	274.367,004	7.447.234,786	274.385,763
C79	37.82	400.00	5°25'05"	37.81	18.93	7.447.229,022	274.353,919	7.447.214,767	274.341,493	7.447.242,674	274.367,004
C80	37.96	414.00	5°15'11"	37.94	18.99	7.447.238,321	274.342,862	7.447.223,714	274.330,725	7.447.251,757	274.356,286
C81	102.77	87.08	67°37'23"	96.91	58.32	7.447.293,012	274.397,505	7.447.346,833	274.375,049	7.447.251,757	274.356,286
C82	18.48	9.00	117°37'48"	15.40	14.87	7.447.362,886	274.368,350	7.447.351,449	274.358,848	7.447.349,163	274.374,076
C83	10.12	9.00	64°27'25"	9.60	5.67	7.447.377,463	274.362,260	7.447.382,616	274.359,886	7.447.373,099	274.358,634
C84	46.45	323.00	8°14'23"	46.41	23.27	7.447.403,747	274.350,151	7.447.423,264	274.337,489	7.447.382,616	274.359,886
C85	16.86	9.00	107°18'12"	14.50	12.23	7.447.433,525	274.330,832	7.447.424,118	274.323,016	7.447.423,264	274.337,489
C86	12.37	9.00	78°43'30"	11.42	7.38	7.447.445,012	274.322,175	7.447.450,749	274.317,528	7.447.439,333	274.317,456
C87	43.60	323.00	7°44'03"	43.57	21.83	7.447.467,716	274.303,787	7.447.482,680	274.287,887	7.447.450,749	274.317,528
C88	14.69	9.00	93°32'28"	13.12	9.57	7.447.489,241	274.280,915	7.447.481,877	274.274,797	7.447.482,680	274.287,887
C89	14.50	9.00	92°18'03"	12.98	9.37	7.447.498,297	274.270,237	7.447.503,990	274.262,797	7.447.491,090	274.264,250
C90	35.08	323.00	6°13'25"	35.07	17.56	7.447.514,660	274.248,851	7.447.523,756	274.233,831	7.447.503,990	274.262,797
C91	8.71	150.00	3°19'44"	8.71	4.36	7.447.526,014	274.230,102	7.447.528,051	274.226,249	7.447.523,756	274.233,831
C92	12.28	9.00	78°08'48"	11.35	7.31	7.447.531,467	274.219,789	7.447.525,846	274.215,120	7.447.528,051	274.226,249
C93	212.65	337.00	36°09'16"	209.14	110.00	7.447.478,752	274.335,176	7.447.535,731	274.241,083	7.447.377,234	274.377,534
C94	62.12	150.00	23°43'44"	61.68	31.51	7.447.548,605	274.162,124	7.447.543,336	274.131,055	7.447.540,926	274.192,686
C95	116.85	164.00	40°49'18"	114.39	61.03	7.447.567,342	274.188,882	7.447.557,139	274.128,714	7.447.535,731	274.241,083
C96	18.16	9.00	115°37'02"	15.23	14.30	7.447.537,442	274.206,552	7.447.540,926	274.192,686	7.447.526,445	274.197,416
C97	101.15	102.35	56°37'46"	97.09	55.14	7.447.441,251	274.144,833	7.447.388,494	274.160,869	7.447.483,663	274.180,071
C98	19.38	9.00	123°22'15"	15.85	16.70	7.447.372,511	274.165,727	7.447.385,359	274.176,402	7.447.388,494	274.160,869
C99	200.47	116.35	98°43'26"	176.57	135.56	7.447.388,344	274.082,672	7.447.318,529	274.198,871	7.447.492,610	274.169,303
C100	12.26	9.00	78°02'21"	11.33	7.29	7.447.360,524	274.173,969	7.447.354,802	274.178,491	7.447.366,134	274.178,630
C101	36.95	102.35	20°41'04"	36.75	18.68	7.447.340,148	274.190,071	7.447.330,529	274.206,081	7.447.354,802	274.178,491
C102	8.02	134.00	3°25'51"	8.02	4.01	7.447.328,463	274.209,521	7.447.330,529	274.206,081	7.447.326,194	274.212,831
C103	13.31	9.00	84°42'26"	12.13	8.20	7.447.321,555	274.219,599	7.447.327,866	274.224,842	7.447.326,194	274.212,831
C104	12.95	9.00	82°26'31"	11.86	7.88	7.447.312,368	274.230,167	7.447.306,575	274.235,516	7.447.318,432	274.235,206
C105	41.18	134.00	17°36'27"	41.02	20.75	7.447.291,328	274.249,596	7.447.306,575	274.235,516	7.447.272,536	274.258,403
C106	79.07	120.00	37°45'03"	77.64	41.03	7.447.297,399	274.234,039	7.447.318,529	274.198,871	7.447.259,161	274.248,910
C107	18.09	9.00	115°09'57"	15.20	14.17	7.447.259,703	274.264,418	7.447.270,604	274.273,475	7.447.272,536	274.258,403
C108	15.96	15.00	60°58'22"	15.22	8.83	7.447.244,209	274.269,746	7.447.235,978	274.272,947	7.447.251,001	274.275,390
C109	37.94	50.00	43°28'13"	37.03	19.93	7.447.260,721	274.220,157	7.447.275,922	274.207,263	7.447.240,819	274.219,057
C110	19.85	75.95	14°58'34"	19.79	9.98	7.447.204,166	274.285,319	7.447.213,469	274.281,700	7.447.194,243	274.286,410
C111	21.05	9.00	134°00'12"	16.57	21.20	7.447.173,166	274.288,727	7.447.189,476	274.302,278	7.447.194,243	274.286,410
C112	200.00	69.82	20°00'07"	69.466	35.269	7.447.135,879	274.275,948	7.447.163,006	274.298,487	7.447.118,097	274.245,490
C113	140.83	61.95	130°15'48"	112.40	133.64	7.447.083,839	274.317,091	7.447.208,395	274.268,652	7.447.127,377	274.190,739
C114	22.76	28.22	71°03'06"	26.45	16.25	7.447.094,959	274.205,855	7.447.103,150	274.219,887	7.447.105,570	274.193,552
C115	30.39	80.00	21°45'46"	30.20	15.38	7.447.115,613	274.181,906	7.447.105,570	274.193,552	7.447.120,623	274.167,366
C117	190.10	145.00	75°07'05"	176.78	111.50	7.447.049,607	274.160,803	7.447.114,190	274.251,694	7.447.120,862	274.075,043
C118	215.48	169.00	73°03'19"	201.18	125.18	7.447.022,405	274.155,988	7.447.091,192	274.260,574	7.447.102,402	274.059,705
C119	23.85	128.00	10°40'37"	23.82	11.96	7.447.153,086	274.116,128	7.447.149,189	274.127,436	7.447.159,010	274.105,737
C120	6.84	9.00	43°32'25"	6.68	3.59	7.447.160,790	274.102,615	7.447.159,010	274.105,737	7.447.164,232	274.101,578
C121	7.83	12.00	37°23'20"	7.69	4.06	7.447.168,119	274.100,406	7.447.170,497	274.097,114	7.447.164,232	274.101,578
C122	9.89	123.00	4°36'32"	9.89	4.95	7.447.173,395	274.093,102	7.447.170,497	274.097,114	7.447.176,606	274.089,335
C123	28.17	142.00	11°22'05"	28.13	14.13	7.447.140,557	274.109,513	7.447.135,953	274.122,875	7.447.147,705	274.097,320
C124	5.92	9.00	37°42'50"	5.82	3.07	7.447.149,260	274.094,668	7.447.148,867	274.091,620	7.447.147,705	274.097,320
C125	9.04	12.00	43°10'27"	8.83	4.75	7.447.148,261	274.086,911	7.447.148,867	274.091,620	7.447.151,041	274.083,062
C126	14.35	147.00	5°35'38"	14.35	7.18	7.447.155,246	274.077,240	7.447.151,041	274.083,062	7.447.159,999	274.071,856
C127	46.07	224.00	11°47'06"	45.99	23.12	7.447.163,279	274.023,991	7.447.174,110	274.003,566	7.447.148,505	274.041,772
C128	240.31	288.74	47°41'07"	233.43	127.61	7.447.257,102	273.847,066	7.447.197,319	273.959,801	7.447.380,711	273.815,380
C129	8.45	12.00	40°22'03"	8.28	4.41	7.447.253,337	273.934,779	7.447.249,785	273.937,394	7.447.257,738	273.935,087
C130	6.34	9.00	40°22'03"	6.21	3.31	7.447.261,038	273.935,318	7.447.263,702	273.933,356	7.447.257,738	273.935,087
C131	6.34	9.00	40°22'03"	6.21	3.31	7.447.269,339	273.946,591	7.447.268,580	273.949,811	7.447.272,003	273.944,629
C132	8.45	12.00	40°22'05"	8.28	4.41	7.447.267,568	273.954,105	7.447.268,580	273.949,811	7.447.264,016	273.956,720
C133	14.14	9.00	90°00'00"	12.73	9.00	7.447.320,676	273.908,790	7.447.313,429	273.914,126	7.447.326,012	273.916,037
C134	14.14	9.00	90°00'00"	12.73	9.00	7.447.331,949	273.900,489	7.447.337,286	273.907,736	7.447.339,196	273.895,152
C135	14.14	9.00	90°00'00"	12.73	9.00	7.447.367,526	273.948,803	7.447.374,773	273.943,467	7.447.362,189	273.941,556
C136	14.14	9.00	90°00'00"	12.73	9.00	7.447.356,252	273.957,105	7.447.350,916	273.949,857	7.447.349,005	273.962,441
C137	6.34	9.00	40°22'03"	6.21	3.31	7.447.311,834	273.989,811	7.447.314,498	273.987,850	7.447.308,534	273.989,580
C138	8.45	12.00	40°22'03"	8.28	4.41	7.447.304,133	273.989,273	7.447.300,581	273.991,888	7.447.308,534	273.989,580
C139	8.45	12.00	40°22'03"	8.28	4.41	7.447.318,364	274.008,599	7.447.319,376	274.004,305	7.447.314,812	274.011,214
C140	6.34	9.00	40°22'03"	6.21	3.31	7.447.320,135	274.001,085	7.447.319,376	274.004,305	7.447.322,800	273.999,123
C144	148.34	206.00	41°15'33"	145.16	77.55	7.447.504,947	273.865,000	7.447.442,499	273.910,983	7.447.582,216	273.871,615
C145	91.23	220.00	23°45'33"	90.58	46.28	7.447.471,464	273.872,269	7.447.434,198	273.899,709	7.447.516,628	273.862,168
C146	13.51	9.00	85°59'37"	12.28	8.39	7.447.524,817	273.860,336	7.447.523,563	273.852,039	7.447.516,628	273.862,168

TABELA DE CURVAS (C)

CURVA	DESENVOLVI-MENTO (m)	RAIO (m)	ÂNGULO CENTRAL	CORDA (m)	TANGENTE (m)	COORDENADAS DOS PONTOS DE TANGÊNCIA N	COORDENADAS DOS PONTOS DE TANGÊNCIA E	PC N	PC E	PT N	PT E
C147	13.51	9.00	85°59'37"	12.28	8.39	7.447.538,660	273.858,243	7.447.547,025	273.857,571	7.447.537,405	273.849,945
C148	29.52	50.00	33°49'21"	29.09	15.20	7.447.597,363	273.872,911	7.447.582,216	273.871,615	7.447.609,224	273.882,419
C149	70.65	220.00	18°23'55"	70.34	35.63	7.447.582,540	273.854,717	7.447.547,025	273.857,571	7.447.617,140	273.863,219
C150	92.95	280.00	19°01'13"	92.52	46.91	7.447.585,905	273.793,759	7.447.539,192	273.798,023	7.447.631,457	273.804,952
C151	14.67	9.00	93°23'05"	13.10	9.55	7.447.529,684	273.798,891	7.447.531,111	273.808,332	7.447.539,192	273.798,023
C152	14.67	9.00	93°23'05"	13.10	9.55	7.447.515,841	273.800,985	7.447.506,501	273.802,967	7.447.517,269	273.810,425
C153	119.15	280.00	24°22'51"	118.25	60.49	7.447.447,331	273.815,528	7.447.398,622	273.851,395	7.447.506,501	273.802,967
C154	128.36	1080.00	6°48'34"	128.28	64.25	7.447.442,953	273.799,425	7.447.502,863	273.776,203	7.447.380,711	273.815,380
C155	229.19	294.00	44°39'57"	223.43	120.78	7.447.487,575	273.768,509	7.447.390,321	273.840,121	7.447.607,086	273.785,943
C156	37.12	84.00	25°19'07"	36.82	18.87	7.447.571,520	273.749,590	7.447.554,185	273.756,599	7.447.590,560	273.750,906
C157	46.16	106.00	24°57'00"	45.79	23.45	7.447.613,787	273.752,512	7.447.635,826	273.743,969	7.447.590,560	273.750,906
C158	23.56	15.00	90°00'00"	21.21	15.00	7.447.686,939	273.724,157	7.447.672,953	273.729,578	7.447.692,360	273.738,143
C159	23.56	15.00	90°00'00"	21.21	15.00	7.447.713,827	273.710,517	7.447.719,248	273.724,503	7.447.727,813	273.705,096
C160	15.01	9.00	95°34'35"	13.33	9.92	7.447.707,601	273.777,462	7.447.704,016	273.768,212	7.447.698,046	273.780,132
C161	91.81	220.00	23°54'38"	91.15	46.58	7.447.653,181	273.792,668	7.447.698,046	273.780,132	7.447.607,086	273.785,943
C162	86.81	164.74	30°11'31"	85.81	44.44	7.447.674,610	273.815,555	7.447.717,242	273.803,018	7.447.631,457	273.804,952
C163	15.31	9.00	97°29'16"	13.53	10.26	7.447.735,407	273.766,189	7.447.744,409	273.761,266	7.447.731,698	273.756,623
C164	13.38	9.00	85°12'00"	12.18	8.28	7.447.725,182	273.800,683	7.447.717,242	273.803,018	7.447.728,173	273.808,400
C165	13.23	9.00	84°13'54"	12.07	8.14	7.447.738,188	273.795,501	7.447.741,129	273.803,088	7.447.745,441	273.791,813
C166	91.22	220.00	23°45'27"	90.57	46.28	7.447.785,009	273.739,061	7.447.813,224	273.702,381	7.447.744,409	273.761,266
C167	95.68	164.74	33°16'33"	94.34	49.23	7.447.789,322	273.769,497	7.447.813,764	273.726,764	7.447.745,441	273.791,813
C168	95.40	140.00	39°02'40"	93.57	49.64	7.447.838,409	273.683,677	7.447.813,764	273.726,764	7.447.884,691	273.665,737
C169	83.98	154.00	31°14'43"	82.94	43.06	7.447.839,479	273.668,247	7.447.813,224	273.702,381	7.447.879,632	273.652,683
C170	14.14	9.00	90°00'00"	12.73	9.00	7.447.942,005	273.643,521	7.447.933,613	273.646,774	7.447.945,258	273.651,913
C171	14.14	9.00	90°00'00"	12.73	9.00	7.447.963,690	273.699,466	7.447.960,437	273.691,074	7.447.955,298	273.702,719
C172	54.52	80.00	39°02'40"	53.47	28.36	7.447.879,929	273.731,933	7.447.865,847	273.756,554	7.447.906,376	273.721,681
C173	44.98	66.00	39°02'40"	44.11	23.40	7.447.889,617	273.743,192	7.447.877,999	273.763,505	7.447.911,436	273.734,735
C174	118.57	224.74	30°13'40"	117.20	60.70	7.447.835,711	273.809,242	7.447.865,847	273.756,554	7.447.783,147	273.839,594
C175	127.65	238.74	30°38'03"	126.13	65.39	7.447.845,534	273.820,264	7.447.877,999	273.763,505	7.447.788,678	273.852,559
C176	10.60	9.00	67°29'10"	10.00	6.01	7.447.777,941	273.842,600	7.447.783,147	273.839,594	7.447.773,170	273.838,942
C177	9.68	9.00	61°36'15"	9.22	5.37	7.447.784,013	273.855,209	7.447.784,126	273.860,574	7.447.788,678	273.852,559
C178	16.15	28.00	33°02'51"	15.93	8.31	7.447.766,579	273.833,887	7.447.758,297	273.833,245	7.447.773,170	273.838,942
C179	10.11	9.00	64°22'41"	9.59	5.67	7.447.752,649	273.832,807	7.447.758,297	273.833,245	7.447.750,601	273.827,524
C180	14.45	28.00	29°34'28"	14.29	7.39	7.447.784,281	273.867,963	7.447.784,126	273.860,574	7.447.780,768	273.874,467
C181	10.11	9.00	64°22'41"	9.59	5.67	7.447.739,595	273.837,866	7.447.737,547	273.832,584	7.447.735,718	273.841,997
C182	16.50	28.00	33°46'06"	16.26	8.50	7.447.729,901	273.848,193	7.447.728,509	273.856,577	7.447.735,718	273.841,997
C183	7.78	9.00	49°33'37"	7.54	4.15	7.447.778,794	273.878,122	7.447.780,295	273.881,996	7.447.780,768	273.874,467
C184	7.78	9.00	49°33'37"	7.54	4.15	7.447.750,822	273.888,965	7.447.746,899	273.887,595	7.447.752,323	273.892,839
C185	14.08	28.00	28°49'09"	13.94	7.19	7.447.740,107	273.885,223	7.447.746,899	273.887,595	7.447.735,300	273.879,870
C186	9.50	9.00	60°30'28"	9.07	5.25	7.447.731,793	273.875,965	7.447.726,666	273.877,095	7.447.735,300	273.879,870
C187	10.60	9.00	67°29'10"	10.00	6.01	7.447.727,525	273.862,508	7.447.728,509	273.856,577	7.447.721,669	273.863,869
C188	105.50	224.74	26°53'46"	104.53	53.74	7.447.669,327	273.876,042	7.447.721,669	273.863,869	7.447.617,140	273.863,219
C189	59.78	220.00	15°34'10"	59.60	30.08	7.447.697,295	273.883,572	7.447.670,740	273.897,695	7.447.726,666	273.877,095
C190	17.79	9.00	113°16'43"	15.03	13.67	7.447.658,672	273.904,114	7.447.669,337	273.912,664	7.447.670,740	273.897,695
C191	20.21	15.00	77°12'31"	18.72	11.98	7.447.646,485	273.912,288	7.447.637,112	273.919,742	7.447.655,830	273.919,779
C192	16.05	9.00	102°12'31"	14.01	11.16	7.447.635,203	273.903,244	7.447.626,498	273.896,267	7.447.626,542	273.910,276
C193	38.50	50.00	44°07'14"	37.56	20.26	7.447.550,173	273.988,929	7.447.547,368	273.968,862	7.447.538,217	274.005,288
C194	247.28	234.00	60°32'55"	235.94	136.60	7.447.520,499	273.996,379	7.447.543,336	274.131,055	7.447.626,542	273.910,276
C195	234.73	220.00	61°07'53"	223.75	129.93	7.447.535,417	274.000,613	7.447.557,139	274.128,714	7.447.637,112	273.919,742
C196	58.76	65.23	51°36'45"	56.79	31.54	7.447.694,633	273.950,883	7.447.670,022	273.931,155	7.447.694,452	273.982,425
C197	71.37	79.23	51°36'45"	68.98	38.31	7.447.708,671	273.944,194	7.447.678,778	273.920,232	7.447.708,452	273.982,505
C198	14.14	9.00	90°00'00"	12.73	9.00	7.447.707,978	274.065,159	7.447.716,978	274.065,211	7.447.708,030	274.056,159
C199	14.14	9.00	90°00'00"	12.73	9.00	7.447.707,898	274.079,159	7.447.707,846	274.088,159	7.447.716,898	274.079,210
C200	7.20	9.00	45°51'03"	7.01	3.81	7.447.792,584	274.065,644	7.447.795,251	274.062,928	7.447.788,777	274.065,622
C201	7.40	12.00	35°21'06"	7.29	3.82	7.447.797,930	274.060,199	7.447.795,251	274.062,928	7.447.801,694	274.059,524
C202	9.29	70.00	7°36'24"	9.29	4.65	7.447.806,274	274.058,702	7.447.810,706	274.057,282	7.447.801,694	274.059,524
C203	15.06	94.00	9°10'50"	15.05	7.55	7.447.813,360	274.081,814	7.447.820,481	274.079,314	7.447.805,932	274.083,147
C204	9.36	12.00	44°40'44"	9.12	4.93	7.447.801,078	274.084,018	7.447.805,932	274.083,147	7.447.797,015	274.081,224
C205	5.37	9.00	34°10'47"	5.29	2.77	7.447.794,735	274.079,657	7.447.791,968	274.079,641	7.447.797,015	274.081,224
C206	40.84	26.00	90°00'00"	36.77	26.00	7.447.707,554	274.139,158	7.447.733,554	274.139,307	7.447.707,703	274.113,158
C206-A	34.56	22.00	90°00'00"	31.11	22.00	7.447.693,474	274.153,077	7.447.715,474	274.153,204	7.447.693,600	274.131,078

TABELA DE CURVAS (C)

CURVA	DESENVOLVI-MENTO (m)	RAIO (m)	ÂNGULO CENTRAL	CORDA (m)	TANGENTE (m)	COORDENADAS DOS PONTOS DE TANGÊNCIA N	COORDENADAS DOS PONTOS DE TANGÊNCIA E	PC N	PC E	PT N	PT E
C207	30.69	149.00	11°47'59"	30.63	15.40	7.447.803,876	274.139,710	7.447.818,966	274.136,648	7.447.788,479	274.139,622
C208	6.77	9.00	43°04'35"	6.61	3.55	7.447.822,447	274.135,941	7.447.824,507	274.133,048	7.447.818,966	274.136,648
C209	7.92	12.00	37°48'05"	7.77	4.11	7.447.826,890	274.129,701	7.447.824,507	274.133,048	7.447.830,825	274.128,517
C210	10.54	144.00	04°11'43"	10.54	5.27	7.447.835,875	274.126,997	7.447.840,801	274.125,112	7.447.830,825	274.128,517
C211	13.55	168.00	4°37'19"	13.55	6.78	7.447.844,232	274.149,546	7.447.850,546	274.147,075	7.447.837,740	274.151,499
C212	8.96	12.00	42°48'18"	8.76	4.70	7.447.833,236	274.152,854	7.447.837,740	274.151,499	7.447.829,011	274.150,788
C213	5.98	9.00	38°02'46"	5.87	3.10	7.447.826,223	274.149,425	7.447.823,188	274.150,070	7.447.829,011	274.150,788
C214	35.04	163.00	12°18'57"	34.97	17.59	7.447.805,985	274.153,722	7.447.823,188	274.150,070	7.447.788,399	274.153,622
C215	37.92	150.00	14°29'09"	37.82	19.06	7.447.773,355	273.947,097	7.447.766,465	273.929,322	7.447.775,579	273.966,031
C216	6.23	11.70	30°31'49"	6.16	3.19	7.447.775,952	273.969,202	7.447.777,884	273.971,745	7.447.775,579	273.966,031
C217	52.56	37.87	79°31'33"	48.44	31.51	7.447.802,678	273.939,741	7.447.833,639	273.933,884	7.447.791,290	273.910,361
C218	30.65	70.00	25°05'15"	30.41	15.58	7.447.876,720	273.925,734	7.447.889,352	273.916,623	7.447.861,417	273.928,629
C219	31.53	36.00	50°10'31"	30.53	16.85	7.447.903,022	273.906,764	7.447.889,352	273.916,623	7.447.919,349	273.910,949
C220	30.65	70.00	25°05'15"	30.41	15.58	7.447.934,436	273.914,816	7.447.949,739	273.911,920	7.447.919,349	273.910,949
C221	9.33	9.00	59°22'15"	8.91	5.13	7.447.986,820	273.904,905	7.447.988,568	273.900,082	7.447.981,779	273.905,859
C222	28.55	170.00	9°37'19"	28.52	14.31	7.447.951,138	273.618,531	7.447.963,427	273.611,203	7.447.937,797	273.623,703
C223	42.76	170.00	14°24'45"	42.65	21.49	7.448.003,493	273.587,310	7.447.985,032	273.598,319	7.448.024,114	273.581,242
C224	123.13	330.00	21°22'39"	122.41	62.29	7.448.157,440	273.542,011	7.448.097,685	273.559,594	7.448.219,492	273.547,419
C225	134.32	360.00	21°22'39"	133.54	67.95	7.448.154,404	273.511,632	7.448.089,217	273.530,814	7.448.222,097	273.517,532
C226	50.31	200.00	14°24'45"	50.18	25.29	7.447.991,386	273.559,601	7.447.969,667	273.572,553	7.448.015,645	273.552,462
C227	23.51	140.00	9°37'19"	23.48	11.78	7.447.937,941	273.591,472	7.447.948,061	273.585,437	7.447.926,954	273.595,730
C228	33.60	84.00	22°55'10"	33.38	17.03	7.447.812,637	273.640,042	7.447.828,514	273.633,888	7.447.795,616	273.639,527
C229	42.40	106.00	22°55'10"	42.12	21.49	7.447.774,137	273.638,877	7.447.754,101	273.646,644	7.447.795,616	273.639,527
C230	327.10	1050.00	17°50'56"	325.78	164.88	7.447.338,282	273.807,822	7.447.492,021	273.748,231	7.447.173,678	273.817,424

QUADRO RESUMO DE QUADRAS

QUADRA	Nº DE LOTES	ÁREA
A	1	49.260,40
B	1	1.643,37
C	4	34.677,22
D	8	5.263,86
E	8	4.786,68
F	8	4.879,68
G	6	4.129,16
H	4	2.097,03
I	1	2.104,94
J	1	1.842,04
K	14	7.638,65
L	18	9.665,55
M	16	8.846,71
N	16	8.595,93
O	9	5.165,63
P	7	3.937,75
Q	7	4.275,77
R	11	6.981,30
S	6	3.352,94
T	20	11.326,92
U	7	4.079,05
V	5	3.183,13
W	8	4.820,52
X	18	10.316,04
Y	7	4.813,82
Z	5	3.307,61
A1	27	15.136,89
B1	4	2.395,92
C1	9	5.729,15
D1	11	7.212,48
E1	13	8.863,71
F1	12	6.716,00
G1	12	6.689,48
H1	4	2.365,11
I1	8	4.648,83
J1	6	3.510,48
TOTAL	322	274.259,75

QUADRO RESUMO DE SISTEMAS DE LAZER

SISTEMAS DE LAZER	ÁREA
SISTEMA DE LAZER 1	3.390,20
SISTEMA DE LAZER 2	171,51
SISTEMA DE LAZER 3	172,80
SISTEMA DE LAZER 4	170,57
SISTEMA DE LAZER 5	189,00
SISTEMA DE LAZER 6	99,98
SISTEMA DE LAZER 7	997,26
SISTEMA DE LAZER 8	1.051,59
SISTEMA DE LAZER 9	2.006,81
SISTEMA DE LAZER 10	286,15
SISTEMA DE LAZER 11	288,12
SISTEMA DE LAZER 12	304,69
SISTEMA DE LAZER 13	354,05
SISTEMA DE LAZER 14	5.338,73
SISTEMA DE LAZER 15	2.330,02
SISTEMA DE LAZER 16	4.644,96
SISTEMA DE LAZER 17	210,45
SISTEMA DE LAZER 18	210,11
SISTEMA DE LAZER 19	949,53
SISTEMA DE LAZER 20	3.545,71
SISTEMA DE LAZER 21	429,58
SISTEMA DE LAZER 22	303,84
SISTEMA DE LAZER 23	170,00
SISTEMA DE LAZER 24	193,30
SISTEMA DE LAZER 25	191,92
SISTEMA DE LAZER 26	3.234,40
TOTAL	31.235,28

QUADRO RESUMO DE ÁREAS VERDES

ÁREAS VERDES	ÁREA
ÁREA VERDE 1	68.543,12
ÁREA VERDE 2	82.846,29
ÁREA VERDE 3	1.329,69
ÁREA VERDE 4	1.426,60
ÁREA VERDE 5	2.417,55
ÁREA VERDE 6	3.952,10
ÁREA VERDE 7	737,57
TOTAL	161.252,92

QUADRO DE ÁREAS DAS VIAS

VIAS	Largura (m)	ÁREA parcial	ÁREA total
AVENIDA BERNARDINO BONAVITA - TRECHO 1	variável	——	725,76
AVENIDA BERNARDINO BONAVITA - TRECHO 2	variável	——	1.209,56
AVENIDA 1	variável	——	23.226,56
AVENIDA 2	variável	——	2.094,55
AVENIDA 3	43,00	——	3.004,94
AVENIDA 4	30,00	——	2.648,55
AVENIDA 5	30,00	——	2.438,66
DUPLICAÇÃO DA ESTRADA MUNICIPAL - TRECHO 1	variável	——	3.246,26
DUPLICAÇÃO DA ESTRADA MUNICIPAL - TRECHO 2	variável	——	10.515,48
RUA 1	14,00	——	4.189,70
RUA 2	14,00	——	3.899,62
RUA 3 - TRECHO 1	14,00	2.748,91	8.839,48
RUA 3 - TRECHO 2	14,00	6.090,57	
RUA 4	14,00	——	1.244,57
RUA 5	14,00	——	1.260,62
RUA 6	14,00	——	1.270,49
RUA 7	14,00	——	1.123,63
RUA 8	14,00	——	5.576,51
RUA 9	14,00	——	13.007,90
RUA 10	14,00	——	2.275,39
RUA 11	14,00	——	2.298,20
RUA 12	14,00	——	2.409,54
RUA 13	14,00	——	6.396,95
RUA 14 - TRECHO 1	14,00	3.637,26	4.323,95
RUA 14 - TRECHO 2	14,00	686,69	
RUA 15 - TRECHO 1	14,00	3.721,40	10.742,70
RUA 15 - TRECHO 2	14,00	7.021,30	
RUA 16 - TRECHO 1	14,00	5.331,99	13.584,81
RUA 16 - TRECHO 2	14,00	8.252,82	
RUA 17	14,00	——	909,53
RUA 18	14,00	——	909,29
RUA 19	14,00	——	594,28
RUA 20	14,00	——	3.926,01
RUA 21	14,00	——	1.742,31
RUA 22	14,00	——	2.060,67
ROTATÓRIA 3	——	——	2.463,01
ROTATÓRIA 4	——	——	2.032,57
TOTAL			146.192,05

OBS.: AS ROTATÓRIAS 1 E 2 FORAM PROJETADAS APENAS PARA COMPOSIÇÃO DOS ALINHAMENTOS, PORÉM SUAS ÁREAS ESTÃO INCORPORADAS À RUA 9 E AVENIDA 2, RESPECTIVAMENTE.

LEGENDA:

- LOTES DE USO MISTO
- ÁREA INSTITUCIONAL
- ÁREAS VERDES
- SISTEMAS DE LAZER
- CANTEIROS DE AVENIDAS (GRAMADO)
- BARRAMENTOS EXISTENTES
- CÓRREGOS
- LIMITE DA ÁREA DE PRESERVAÇÃO PERMANENTE - LEI FEDERAL 4.771/65 E ALTERAÇÕES
- ESTAQUEAMENTO DAS RUAS
- PONTO BAIXO
- CURVAS DE NÍVEL

PLANTA GERAL

folha 1 / 1

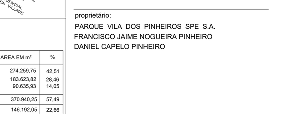
obra: **PROJETO DE ARRUAMENTO E LOTEAMENTO**

local: LOTEAMENTO PARQUE VILLA DOS PINHEIROS
LOCALIZADO ENTRE A AVENIDA BERNARDINO BONAVITA E
A ESTRADA MUNICIPAL DO MIRIM (IDT-148)

proprietário: PARQUE VILA DOS PINHEIROS SPE S.A.

escala: 1 : 1.000 — município: INDAIATUBA - SP

SITUAÇÃO SEM ESCALA



DECLARO QUE A APROVAÇÃO DO PROJETO NÃO IMPLICA NO RECONHECIMENTO POR PARTE DA PREFEITURA DO DIREITO DE PROPRIEDADE DO TERRENO.

QUADRO DE ÁREAS

Nº	ESPECIFICAÇÃO	AREA EM m²	%
1	LOTES: (322)	274.259,75	42,51
	LOTES RESIDENCIAIS (313)	183.623,82	28,46
	LOTES DE USO MISTO (09)	90.635,93	14,05
2	ÁREAS PÚBLICAS	370.940,25	57,49
2.1	SISTEMA VIÁRIO	146.192,05	22,66
2.2	ÁREA INSTITUCIONAL	32.260,00	5,00
2.3	ESPAÇOS LIVRES DE USO PÚBLICO	192.488,20	29,83
2.3.1	ÁREAS VERDES	161.252,92	24,99
2.3.2	SISTEMA DE LAZER	31.235,28	4,84
3	ÁREA TOTAL LOTEADA	645.200,00	100,00
4	ÁREA REMANESCENTE	-	-
5	TOTAL DA GLEBA	645.200,00	-

OBS: AS ÁREAS DOS BARRAMENTOS (ESPELHOS D'ÁGUA - 9.679,34m²), ESTÃO INCLUÍDAS NO CÔMPUTO DAS ÁREAS VERDES DO LOTEAMENTO.

proprietário:
PARQUE VILA DOS PINHEIROS SPE S.A.
FRANCISCO JAIME NOGUEIRA PINHEIRO
DANIEL CAPELO PINHEIRO

autor do projeto e responsável técnico:
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