

PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
<b>EIXO DA SE-469</b>				
0+0,000	PP	649.774,8535	8.767.729,9841	298°11'44.69"
1+0,000		649.757,2268	8.767.739,4339	298°11'44.69"
2+0,000		649.739,6000	8.767.748,8836	298°11'44.69"
3+0,000		649.721,9732	8.767.758,3333	298°11'44.69"
4+0,000		649.704,3464	8.767.767,7830	298°11'44.69"
4+16,666	PI	649.689,6585	8.767.775,6572	298°11'44.69"
5+0,000		649.686,7404	8.767.777,2707	298°56'25.37"
6+0,000		649.669,2379	8.767.786,9487	298°56'25.37"
7+0,000		649.651,7355	8.767.796,6267	298°56'25.37"
8+0,000		649.634,2330	8.767.806,3047	298°56'25.37"
9+0,000		649.616,7305	8.767.815,9827	298°56'25.37"
10+0,000		649.599,2280	8.767.825,6607	298°56'25.37"
11+0,000		649.581,7256	8.767.835,3387	298°56'25.37"
12+0,000		649.564,2231	8.767.845,0166	298°56'25.37"
13+0,000		649.546,7206	8.767.854,6946	298°56'25.37"
14+0,000		649.529,2181	8.767.864,3726	298°56'25.37"
15+0,000		649.511,7157	8.767.874,0506	298°56'25.37"
15+11,432	TC	649.501,7111	8.767.879,5826	298°56'25.37"
16+0,000		649.494,1955	8.767.883,6964	298°26'58.12"
17+0,000		649.476,5167	8.767.893,0476	297°18'12.83"
17+11,441	PT	649.466,3201	8.767.898,2376	296°38'52.86"
18+0,000		649.458,6707	8.767.902,0762	296°38'52.86"
19+0,000		649.440,7951	8.767.911,0463	296°38'52.86"
20+0,000		649.422,9195	8.767.920,0165	296°38'52.86"
21+0,000		649.405,0440	8.767.928,9867	296°38'52.86"
22+0,000		649.387,1684	8.767.937,9568	296°38'52.86"
23+0,000		649.369,2928	8.767.946,9270	296°38'52.86"
23+7,952	TC	649.362,1851	8.767.950,4937	296°38'52.86"
24+0,000		649.350,7717	8.767.954,2065	279°23'27.83"
24+7,089	PT	649.343,7125	8.767.954,7390	269°14'15.00"
25+0,000		649.330,8022	8.767.954,5672	269°14'15.00"
26+0,000		649.310,8039	8.767.954,3010	269°14'15.00"
27+0,000		649.290,8057	8.767.954,0349	269°14'15.00"
27+5,302	PI	649.285,5037	8.767.953,9643	269°14'15.00"
28+0,000		649.270,8180	8.767.953,3755	267°42'13.89"
29+0,000		649.250,8340	8.767.952,5742	267°42'13.89"
29+16,278	PI	649.234,5689	8.767.951,9220	267°42'13.89"
30+0,000		649.230,8475	8.767.951,8656	269°7'53.80"
31+0,000		649.210,8498	8.767.951,5625	269°7'53.80"
32+0,000		649.190,8521	8.767.951,2594	269°7'53.80"
33+0,000		649.170,8544	8.767.950,9562	269°7'53.80"
34+0,000		649.150,8567	8.767.950,6531	269°7'53.80"
34+12,269	TC	649.138,5889	8.767.950,4672	269°7'53.80"
35+0,000		649.130,8597	8.767.950,3127	268°34'40.57"
36+0,000		649.110,8742	8.767.949,5665	267°8'43.95"
36+9,920	PT	649.100,9696	8.767.949,0110	266°26'6.22"
37+0,000		649.090,9093	8.767.948,3843	266°26'6.22"
38+0,000		649.070,9480	8.767.947,1407	266°26'6.22"

PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
38+4,823	TC	649.066,1346	8.767.946,8408	266°26'6.22"
39+0,000		649.050,9674	8.767.946,8563	273°40'54.09"
39+8,383	PT	649.042,6269	8.767.947,6863	277°41'4.15"
40+0,000		649.031,1147	8.767.949,2396	277°41'4.15"
40+6,974	TC	649.024,2037	8.767.950,1721	277°41'4.15"
41+0,000		649.011,3184	8.767.952,0819	279°10'37.92"
41+7,194	PT	649.004,2248	8.767.953,2804	280°0'5.75"
42+0,000		648.991,6136	8.767.955,5044	280°0'5.75"
42+13,732	TS	648.978,0907	8.767.957,8893	280°0'5.75"
43+0,000		648.971,9231	8.767.959,0087	280°51'33.26"
43+11,232	SC	648.960,9982	8.767.961,5940	286°41'9.98"
44+0,000		648.952,7651	8.767.964,5964	293°23'4.80"
44+16,543	CS	648.938,4252	8.767.972,7769	306°1'20.56"
45+0,000		648.935,6736	8.767.974,8697	308°24'9.53"
45+14,043	ST	648.925,1220	8.767.984,1305	312°42'24.79"
46+0,000		648.920,7444	8.767.988,1710	312°42'24.79"
47+0,000		648.906,0477	8.768.001,7359	312°42'24.79"
48+0,000		648.891,3511	8.768.015,3009	312°42'24.79"
49+0,000		648.876,6544	8.768.028,8659	312°42'24.79"
50+0,000		648.861,9577	8.768.042,4308	312°42'24.79"
51+0,000		648.847,2611	8.768.055,9958	312°42'24.79"
52+0,000		648.832,5644	8.768.069,5607	312°42'24.79"
53+0,000		648.817,8677	8.768.083,1257	312°42'24.79"
54+0,000		648.803,1711	8.768.096,6907	312°42'24.79"
55+0,000		648.788,4744	8.768.110,2556	312°42'24.79"
55+8,950	TS	648.781,8973	8.768.116,3263	312°42'24.79"
56+0,000		648.773,9864	8.768.124,0358	317°22'13.58"
56+3,950	SC	648.771,4074	8.768.127,0274	321°18'4.51"
57+0,000		648.763,5374	8.768.140,9358	339°41'33.47"
57+15,079	CS	648.760,4995	8.768.155,6475	356°58'19.29"
57+17,533	SS	648.760,4099	8.768.158,1001	358°22'41.73"
57+17,861	SC	648.760,4005	8.768.158,4272	358°17'4.23"
58+0,000		648.760,3136	8.768.160,5647	357°3'31.61"
59+0,000		648.757,3035	8.768.180,3032	345°35'58.64"
59+7,708	CS	648.755,1007	8.768.187,6880	341°10'59.21"
60+0,000		648.750,6215	8.768.199,1316	337°1'33.65"
60+2,708	ST	648.749,5604	8.768.201,6233	336°53'9.35"
61+0,000		648.742,7723	8.768.217,5269	336°53'9.35"
62+0,000		648.734,9210	8.768.235,9214	336°53'9.35"
63+0,000		648.727,0697	8.768.254,3159	336°53'9.35"
64+0,000		648.719,2185	8.768.272,7104	336°53'9.35"
65+0,000		648.711,3672	8.768.291,1050	336°53'9.35"
66+0,000		648.703,5160	8.768.309,4995	336°53'9.35"
66+13,486	PI	648.698,2219	8.768.321,9027	336°53'9.35"
67+0,000		648.695,8086	8.768.327,9534	338°15'18.83"
68+0,000		648.688,3992	8.768.346,5302	338°15'18.83"
69+0,000		648.680,9897	8.768.365,1071	338°15'18.83"
70+0,000		648.673,5802	8.768.383,6840	338°15'18.83"
71+0,000		648.666,1708	8.768.402,2608	338°15'18.83"

PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
72+0,000		648.658,7613	8.768.420,8377	338°15'18.83"
73+0,000		648.651,3519	8.768.439,4146	338°15'18.83"
73+14,132	TS	648.646,1162	8.768.452,5413	338°15'18.83"
74+0,000		648.643,9359	8.768.457,9888	338°2'59.09"
75+0,000		648.635,9796	8.768.476,3340	334°15'41.89"
75+4,132	SC	648.634,1416	8.768.480,0351	332°53'1.50"
76+0,000		648.626,2212	8.768.493,7771	327°12'5.69"
77+0,000		648.614,3664	8.768.509,8687	320°2'22.59"
78+0,000		648.600,5978	8.768.524,3568	312°52'39.49"
79+0,000		648.585,1303	8.768.537,0153	305°42'56.39"
79+17,325	CS	648.570,5437	8.768.546,3487	299°30'41.15"
80+0,000		648.568,2056	8.768.547,6472	298°35'46.98"
81+0,000		648.550,2538	8.768.556,4535	294°27'36.82"
81+7,325	ST	648.543,5745	8.768.559,4619	294°8'23.83"
82+0,000		648.532,0084	8.768.564,6453	294°8'23.83"
83+0,000		648.513,7574	8.768.572,8247	294°8'23.83"
84+0,000		648.495,5064	8.768.581,0040	294°8'23.83"
85+0,000		648.477,2554	8.768.589,1833	294°8'23.83"
85+9,130	TC	648.468,9241	8.768.592,9171	294°8'23.83"
86+0,000		648.458,9745	8.768.597,2952	293°21'41.14"
87+0,000		648.440,5169	8.768.604,9954	291°55'44.52"
88+0,000		648.421,8725	8.768.612,2319	290°29'47.90"
89+0,000		648.403,0531	8.768.619,0001	289°3'51.28"
89+10,539	PT	648.393,0696	8.768.622,3767	288°18'33.96"
90+0,000		648.384,0877	8.768.625,3489	288°18'33.96"
91+0,000		648.365,1002	8.768.631,6318	288°18'33.96"
92+0,000		648.346,1127	8.768.637,9148	288°18'33.96"
93+0,000		648.327,1253	8.768.644,1978	288°18'33.96"
94+0,000		648.308,1378	8.768.650,4808	288°18'33.96"
94+10,986	TC	648.297,7082	8.768.653,9319	288°18'33.96"
95+0,000		648.289,1763	8.768.656,8407	289°20'32.59"
96+0,000		648.270,4427	8.768.663,8406	291°38'3.19"
96+8,598	PT	648.262,4776	8.768.667,0792	292°37'10.28"
97+0,000		648.251,9531	8.768.671,4644	292°37'10.28"
97+1,528	TS	648.250,5428	8.768.672,0520	292°37'10.28"
98+0,000		648.233,6684	8.768.679,5569	296°41'33.19"
98+11,528	SC	648.223,6669	8.768.685,2762	303°21'44.93"
99+0,000		648.216,8506	8.768.690,3010	309°25'48.84"
100+0,000		648.203,1426	8.768.704,7928	323°45'15.04"
100+18,454	CS	648.194,0372	8.768.720,7967	336°58'14.45"
101+0,000		648.193,4459	8.768.722,2254	338°2'58.50"
102+0,000		648.187,6881	8.768.741,3577	346°51'38.10"
102+8,454	ST	648.185,8483	8.768.749,6087	347°42'49.10"
103+0,000		648.183,3912	8.768.760,8905	347°42'49.10"
104+0,000		648.179,1353	8.768.780,4325	347°42'49.10"
104+7,360	TC	648.177,5692	8.768.787,6235	347°42'49.10"
105+0,000		648.175,0357	8.768.800,0071	349°9'43.65"
106+0,000		648.171,6689	8.768.819,7203	351°27'14.24"
106+17,167	PT	648.169,4098	8.768.836,7368	353°25'16.01"

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ESTACA	PONTO	LESTE	NORTE	AZIMUTE
107+0,000		648.169,0852	8.768.839,5515	353°25'16.01"
108+0,000		648.166,7937	8.768.859,4198	353°25'16.01"
109+0,000		648.164,5023	8.768.879,2881	353°25'16.01"
110+0,000		648.162,2109	8.768.899,1564	353°25'16.01"
111+0,000		648.159,9195	8.768.919,0247	353°25'16.01"
112+0,000		648.157,6281	8.768.938,8930	353°25'16.01"
113+0,000		648.155,3366	8.768.958,7613	353°25'16.01"
114+0,000		648.153,0452	8.768.978,6296	353°25'16.01"
115+0,000		648.150,7538	8.768.998,4979	353°25'16.01"
116+0,000		648.148,4624	8.769.018,3662	353°25'16.01"
116+18,404	TC	648.146,3538	8.769.036,6493	353°25'16.01"
117+0,000		648.146,1735	8.769.038,2348	353°36'14.30"
118+0,000		648.144,3435	8.769.058,1495	355°53'44.89"
119+0,000		648.143,3114	8.769.078,1216	358°11'15.49"
120+0,000		648.143,0788	8.769.098,1189	0°28'46.08"
120+17,136	PT	648.143,5158	8.769.115,2485	2°26'35.20"
121+0,000		648.143,6379	8.769.118,1099	2°26'35.20"
122+0,000		648.144,4904	8.769.138,0917	2°26'35.20"
123+0,000		648.145,3430	8.769.158,0735	2°26'35.20"
124+0,000		648.146,1955	8.769.178,0553	2°26'35.20"
125+0,000		648.147,0481	8.769.198,0371	2°26'35.20"
126+0,000		648.147,9006	8.769.218,0190	2°26'35.20"
127+0,000		648.148,7532	8.769.238,0008	2°26'35.20"
127+18,114	PI	648.149,5253	8.769.256,0986	2°26'35.20"
128+0,000		648.149,6040	8.769.257,9827	2°23'30.00"
129+0,000		648.150,4386	8.769.277,9653	2°23'30.00"
130+0,000		648.151,2732	8.769.297,9478	2°23'30.00"
131+0,000		648.152,1078	8.769.317,9304	2°23'30.00"
132+0,000		648.152,9424	8.769.337,9130	2°23'30.00"
133+0,000		648.153,7771	8.769.357,8956	2°23'30.00"
134+0,000		648.154,6117	8.769.377,8782	2°23'30.00"
134+6,960	PI	648.154,9021	8.769.384,8317	2°23'30.00"
135+0,000		648.155,2053	8.769.397,8686	1°19'55.64"
136+0,000		648.155,6702	8.769.417,8632	1°19'55.64"
136+16,949	TC	648.156,0642	8.769.434,8080	1°19'55.64"
137+0,000		648.156,1259	8.769.437,8580	0°58'57.17"
138+0,000		648.156,0688	8.769.457,8565	358°41'26.58"
138+0,939	PT	648.156,0465	8.769.458,7950	358°34'59.33"
138+9,870	TS	648.155,8257	8.769.467,7237	358°34'59.33"
139+0,000		648.155,3445	8.769.477,8400	354°39'49.01"
139+4,870	SC	648.154,7070	8.769.482,6669	349°59'19.61"
140+0,000		648.149,8797	8.769.496,9451	332°39'4.64"
140+11,725	CS	648.143,3270	8.769.506,6356	319°12'56.34"
141+0,000		648.137,5146	8.769.512,5187	312°20'55.23"
141+6,725	ST	648.132,4547	8.769.516,9478	310°37'16.62"
142+0,000		648.122,3784	8.769.525,5907	310°37'16.62"
143+0,000		648.107,1978	8.769.538,6118	310°37'16.62"
144+0,000		648.092,0172	8.769.551,6330	310°37'16.62"
144+3,559	TC	648.089,3162	8.769.553,9497	310°37'16.62"

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ESTACA	PONTO	LESTE	NORTE	AZIMUTE
145+0,000		648.076,6629	8.769.564,4470	308°44'14.02"
145+15,959	PT	648.064,0570	8.769.574,2332	306°54'30.34"
145+17,293	TS	648.062,9907	8.769.575,0340	306°54'30.34"
146+0,000		648.060,8252	8.769.576,6586	306°48'54.43"
147+0,000		648.044,3377	8.769.587,9598	300°20'36.41"
147+2,293	SC	648.042,3452	8.769.589,0944	298°57'2.45"
148+0,000		648.026,1101	8.769.596,0911	287°40'40.77"
148+13,116	CS	648.013,3683	8.769.599,1509	279°19'41.90"
149+0,000		648.006,5416	8.769.600,0300	275°32'56.53"
149+18,116	ST	647.988,4513	8.769.600,9032	271°22'14.01"
150+0,000		647.986,5675	8.769.600,9482	271°22'14.01"
151+0,000		647.966,5732	8.769.601,4266	271°22'14.01"
152+0,000		647.946,5789	8.769.601,9050	271°22'14.01"
153+0,000		647.926,5847	8.769.602,3834	271°22'14.01"
154+0,000		647.906,5904	8.769.602,8617	271°22'14.01"
154+2,524	TS	647.904,0668	8.769.602,9221	271°22'14.01"
154+17,524	SC	647.889,2411	8.769.604,7676	288°33'33.45"
155+0,000		647.886,9370	8.769.605,6704	294°13'59.43"
156+0,000		647.873,6956	8.769.619,9456	340°4'11.27"
156+3,998	CS	647.872,6384	8.769.623,7973	349°14'0.08"
156+18,998	ST	647.872,8201	8.769.638,7362	6°25'19.52"
157+0,000		647.872,9321	8.769.639,7316	6°25'19.52"
158+0,000		647.875,1692	8.769.659,6061	6°25'19.52"
158+17,288	TS	647.877,1029	8.769.676,7858	6°25'19.52"
159+0,000		647.877,3974	8.769.679,4816	5°51'37.11"
159+12,288	SC	647.877,2846	8.769.691,7248	349°14'0.08"
160+0,000		647.874,7075	8.769.698,9608	331°33'33.40"
160+14,587	CS	647.864,5113	8.769.709,1017	298°7'45.66"
161+0,000		647.859,5227	8.769.711,1856	287°57'41.11"
161+9,587	ST	647.850,1988	8.769.713,3864	280°56'26.22"
162+0,000		647.839,9746	8.769.715,3628	280°56'26.22"
163+0,000		647.820,3381	8.769.719,1586	280°56'26.22"
163+4,414	TC	647.816,0047	8.769.719,9963	280°56'26.22"
163+17,841	PT	647.803,2155	8.769.723,9923	293°45'44.83"
163+19,116	TC	647.802,0485	8.769.724,5060	293°45'44.83"
164+0,000		647.801,2369	8.769.724,8573	293°2'18.97"
164+10,744	PT	647.791,0668	8.769.728,2881	284°14'41.06"
165+0,000		647.782,0952	8.769.730,5658	284°14'41.06"
166+0,000		647.762,7101	8.769.735,4870	284°14'41.06"
166+8,491	PF	647.754,4805	8.769.737,5763	284°14'41.06"
ACESSO 131 - EIXO 01				
0+0,000	PP	647.793,8686	8.769.727,5768	5°0'48.37"
1+0,000		647.795,6164	8.769.747,5003	5°0'48.37"
2+0,000		647.797,3642	8.769.767,4238	5°0'48.37"
2+3,111	TC	647.797,6361	8.769.770,5229	5°0'48.37"
3+0,000		647.798,8276	8.769.787,3690	3°4'41.16"
4+0,000		647.799,5019	8.769.807,3563	0°47'10.57"
5+0,000		647.799,3763	8.769.827,3546	358°29'39.98"
5+0,254	PT	647.799,3696	8.769.827,6089	358°27'55.02"

PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
6+0,000		647.798,8407	8.769.847,3474	358°27'55.02"
7+0,000		647.798,3051	8.769.867,3402	358°27'55.02"
8+0,000		647.797,7694	8.769.887,3331	358°27'55.02"
9+0,000		647.797,2338	8.769.907,3259	358°27'55.02"
10+0,000		647.796,6981	8.769.927,3187	358°27'55.02"
11+0,000		647.796,1625	8.769.947,3115	358°27'55.02"
12+0,000		647.795,6268	8.769.967,3044	358°27'55.02"
13+0,000		647.795,0912	8.769.987,2972	358°27'55.02"
14+0,000		647.794,5555	8.770.007,2900	358°27'55.02"
15+0,000		647.794,0199	8.770.027,2828	358°27'55.02"
16+0,000		647.793,4842	8.770.047,2757	358°27'55.02"
17+0,000		647.792,9486	8.770.067,2685	358°27'55.02"
18+0,000		647.792,4129	8.770.087,2613	358°27'55.02"
19+0,000		647.791,8772	8.770.107,2541	358°27'55.02"
20+0,000		647.791,3416	8.770.127,2470	358°27'55.02"
21+0,000		647.790,8059	8.770.147,2398	358°27'55.02"
22+0,000		647.790,2703	8.770.167,2326	358°27'55.02"
23+0,000		647.789,7346	8.770.187,2254	358°27'55.02"
24+0,000		647.789,1990	8.770.207,2183	358°27'55.02"
25+0,000		647.788,6633	8.770.227,2111	358°27'55.02"
26+0,000		647.788,1277	8.770.247,2039	358°27'55.02"
27+0,000		647.787,5920	8.770.267,1967	358°27'55.02"
28+0,000		647.787,0564	8.770.287,1896	358°27'55.02"
29+0,000		647.786,5207	8.770.307,1824	358°27'55.02"
30+0,000		647.785,9851	8.770.327,1752	358°27'55.02"
30+8,584	TS	647.785,7552	8.770.335,7562	358°27'55.02"
31+0,000		647.785,5320	8.770.347,1697	359°42'35.19"
31+8,584	SC	647.785,6639	8.770.355,7521	2°17'6.00"
32+0,000		647.786,5525	8.770.367,1306	6°38'44.01"
32+15,103	CS	647.789,0519	8.770.382,0189	12°24'52.12"
33+0,000		647.790,1762	8.770.386,7849	14°3'21.59"
33+15,103	ST	647.794,2141	8.770.401,3371	16°14'3.11"
34+0,000		647.795,5832	8.770.406,0388	16°14'3.11"
35+0,000		647.801,1744	8.770.425,2414	16°14'3.11"
36+0,000		647.806,7657	8.770.444,4439	16°14'3.11"
37+0,000		647.812,3570	8.770.463,6464	16°14'3.11"
38+0,000		647.817,9483	8.770.482,8490	16°14'3.11"
39+0,000		647.823,5396	8.770.502,0515	16°14'3.11"
40+0,000		647.829,1309	8.770.521,2541	16°14'3.11"
40+9,116	TS	647.831,6795	8.770.530,0070	16°14'3.11"
41+0,000		647.834,6533	8.770.540,4762	15°6'11.07"
41+14,116	SC	647.837,8282	8.770.554,2267	10°15'57.19"
42+0,000		647.838,7345	8.770.560,0394	7°27'24.18"
43+0,000		647.839,6693	8.770.579,9944	357°54'26.71"
43+0,851	CS	647.839,6352	8.770.580,8444	357°30'4.43"
44+0,000		647.837,6665	8.770.599,8842	351°51'35.28"
44+5,851	ST	647.836,8161	8.770.605,6728	351°31'58.51"
45+0,000		647.834,7327	8.770.619,6679	351°31'58.51"
46+0,000		647.831,7879	8.770.639,4499	351°31'58.51"

PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
47+0,000		647.828,8431	8.770.659,2319	351°31'58.51"
48+0,000		647.825,8982	8.770.679,0139	351°31'58.51"
49+0,000		647.822,9534	8.770.698,7959	351°31'58.51"
49+14,613	TS	647.820,8018	8.770.713,2495	351°31'58.51"
50+0,000		647.820,0373	8.770.718,5820	352°27'24.14"
50+9,613	SC	647.819,2141	8.770.728,1547	358°41'41.61"
51+0,000		647.819,8754	8.770.738,5078	8°36'50.06"
52+0,000		647.826,0810	8.770.757,4234	27°42'45.00"
52+12,241	CS	647.832,8357	8.770.767,6065	39°24'5.94"
53+0,000		647.838,0724	8.770.773,3279	44°53'41.02"
53+7,241	ST	647.843,2815	8.770.778,3570	46°33'49.04"
53+12,220	TS	647.846,8970	8.770.781,7803	46°33'49.04"
54+0,000		647.852,4418	8.770.787,2362	43°15'38.45"
54+7,220	SC	647.857,0049	8.770.792,8217	34°17'9.44"
55+0,000		647.862,1388	8.770.804,4479	13°21'52.87"
55+13,444	CS	647.862,6892	8.770.817,7977	351°21'25.44"
56+0,000		647.861,1903	8.770.824,1744	342°58'11.40"
56+8,444	ST	647.858,3551	8.770.832,1260	339°4'45.84"
57+0,000		647.854,2287	8.770.842,9205	339°4'45.84"
58+0,000		647.847,0872	8.770.861,6020	339°4'45.84"
59+0,000		647.839,9457	8.770.880,2835	339°4'45.84"
60+0,000		647.832,8042	8.770.898,9650	339°4'45.84"
60+1,689	PF	647.832,2011	8.770.900,5429	339°4'45.84"
ACESSO 131 - EIXO 02				
0+0,000	PP	647.786,6701	8.771.007,9498	336°32'21.48"
1+0,000		647.778,7077	8.771.026,2965	336°32'21.48"
2+0,000		647.770,7453	8.771.044,6431	336°32'21.48"
3+0,000		647.762,7829	8.771.062,9898	336°32'21.48"
4+0,000		647.754,8205	8.771.081,3365	336°32'21.48"
4+5,539	TC	647.752,6152	8.771.086,4177	336°32'21.48"
4+16,593	PT	647.747,8451	8.771.096,3864	332°19'1.64"
5+0,000		647.746,2622	8.771.099,4035	332°19'1.64"
6+0,000		647.736,9706	8.771.117,1142	332°19'1.64"
7+0,000		647.727,6791	8.771.134,8248	332°19'1.64"
8+0,000		647.718,3875	8.771.152,5355	332°19'1.64"
9+0,000		647.709,0960	8.771.170,2461	332°19'1.64"
10+0,000		647.699,8045	8.771.187,9568	332°19'1.64"
11+0,000		647.690,5129	8.771.205,6674	332°19'1.64"
12+0,000		647.681,2214	8.771.223,3781	332°19'1.64"
13+0,000		647.671,9298	8.771.241,0887	332°19'1.64"
14+0,000		647.662,6383	8.771.258,7994	332°19'1.64"
14+13,608	TC	647.656,3164	8.771.270,8495	332°19'1.64"
15+0,000		647.653,4072	8.771.276,5413	333°32'16.62"
16+0,000		647.645,0983	8.771.294,7296	337°21'27.60"
17+0,000		647.638,0195	8.771.313,4310	341°10'38.59"
18+0,000		647.632,2023	8.771.332,5624	344°59'49.58"
19+0,000		647.627,6725	8.771.352,0389	348°49'0.56"
19+0,293	PT	647.627,6158	8.771.352,3262	348°52'21.92"
20+0,000		647.623,8126	8.771.371,6628	348°52'21.92"

PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
21+0,000		647.619,9528	8.771.391,2869	348°52'21.92"
22+0,000		647.616,0931	8.771.410,9109	348°52'21.92"
22+0,861	TC	647.615,9269	8.771.411,7555	348°52'21.92"
23+0,000		647.612,5936	8.771.430,6010	351°3'57.40"
23+6,696	PT	647.611,5981	8.771.437,2221	351°49'59.52"
24+0,000		647.609,7081	8.771.450,3916	351°49'59.52"
25+0,000		647.606,8670	8.771.470,1888	351°49'59.52"
25+5,520	TC	647.606,0828	8.771.475,6533	351°49'59.52"
26+0,000		647.603,3379	8.771.489,8645	346°18'8.75"
26+9,619	PT	647.600,7620	8.771.499,1310	342°37'40.99"
27+0,000		647.597,6626	8.771.509,0380	342°37'40.99"
28+0,000		647.591,6912	8.771.528,1258	342°37'40.99"
29+0,000		647.585,7197	8.771.547,2135	342°37'40.99"
29+11,130	TC	647.582,3964	8.771.557,8363	342°37'40.99"
30+0,000		647.580,0000	8.771.566,3746	346°0'57.45"
30+10,185	PT	647.577,8760	8.771.576,3339	349°54'23.14"
31+0,000		647.576,1559	8.771.585,9967	349°54'23.14"
32+0,000		647.572,6508	8.771.605,6872	349°54'23.14"
33+0,000		647.569,1456	8.771.625,3776	349°54'23.14"
34+0,000		647.565,6405	8.771.645,0681	349°54'23.14"
35+0,000		647.562,1354	8.771.664,7586	349°54'23.14"
36+0,000		647.558,6303	8.771.684,4490	349°54'23.14"
37+0,000		647.555,1251	8.771.704,1395	349°54'23.14"
37+18,563	TC	647.551,8719	8.771.722,4148	349°54'23.14"
38+0,000		647.551,6132	8.771.723,8287	349°21'26.60"
38+19,372	PT	647.546,8179	8.771.742,5837	341°57'28.49"
39+0,000		647.546,6233	8.771.743,1810	341°57'28.49"
40+0,000		647.540,4290	8.771.762,1976	341°57'28.49"
40+15,419	TC	647.535,6534	8.771.776,8588	341°57'28.49"
41+0,000		647.534,3014	8.771.781,2352	343°42'27.28"
41+7,833	PT	647.532,3011	8.771.788,8079	346°41'58.89"
42+0,000		647.529,5021	8.771.800,6482	346°41'58.89"
43+0,000		647.524,9010	8.771.820,1118	346°41'58.89"
44+0,000		647.520,2999	8.771.839,5753	346°41'58.89"
44+8,481	TC	647.518,3488	8.771.847,8290	346°41'58.89"
45+0,000		647.515,0598	8.771.858,8616	340°5'59.52"
45+7,894	PT	647.512,0828	8.771.866,1704	335°34'37.26"
45+15,051	PF	647.509,1234	8.771.872,6876	335°34'37.26"
ACESSO 131 - EIXO 03				
0+0,000	PP	647.874,3285	8.771.026,7852	19°14'34.77"
1+0,000		647.880,9200	8.771.045,6678	19°14'34.77"
2+0,000		647.887,5115	8.771.064,5504	19°14'34.77"
2+9,160	PI	647.890,5304	8.771.073,1985	19°14'34.77"
3+0,000		647.893,9636	8.771.083,4806	18°27'51.30"
4+0,000		647.900,2979	8.771.102,4510	18°27'51.30"
5+0,000		647.906,6321	8.771.121,4214	18°27'51.30"
6+0,000		647.912,9664	8.771.140,3919	18°27'51.30"
6+11,096	TC	647.916,4806	8.771.150,9167	18°27'51.30"
7+0,000		647.920,0358	8.771.159,0673	28°40'2.97"



PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
8+0,000		647.932,8396	8.771.174,2580	51°35'8.89"
8+0,642	PT	647.933,3449	8.771.174,6534	52°19'15.80"
9+0,000		647.948,6660	8.771.186,4860	52°19'15.80"
9+5,120	TC	647.952,7183	8.771.189,6155	52°19'15.80"
10+0,000		647.965,1270	8.771.197,8026	60°50'47.91"
10+2,501	PT	647.967,3265	8.771.198,9936	62°16'47.19"
11+0,000		647.982,8168	8.771.207,1332	62°16'47.19"
12+0,000		648.000,5214	8.771.216,4363	62°16'47.19"
12+14,126	TC	648.013,0265	8.771.223,0073	62°16'47.19"
13+0,000		648.018,1428	8.771.225,8905	58°54'51.92"
13+14,223	PT	648.029,7613	8.771.234,0744	50°45'54.02"
14+0,000		648.034,2356	8.771.237,7281	50°45'54.02"
15+0,000		648.049,7267	8.771.250,3781	50°45'54.02"
16+0,000		648.065,2179	8.771.263,0282	50°45'54.02"
16+10,005	TC	648.072,9671	8.771.269,3562	50°45'54.02"
17+0,000		648.080,6454	8.771.275,7552	49°37'10.64"
18+0,000		648.095,6174	8.771.289,0136	47°19'40.04"
18+8,129	PT	648.101,5489	8.771.294,5715	46°23'46.76"
19+0,000		648.110,1453	8.771.302,7588	46°23'46.76"
20+0,000		648.124,6278	8.771.316,5521	46°23'46.76"
21+0,000		648.139,1104	8.771.330,3455	46°23'46.76"
21+4,066	TC	648.142,0545	8.771.333,1494	46°23'46.76"
22+0,000		648.153,9352	8.771.343,7638	50°2'53.49"
23+0,000		648.169,7640	8.771.355,9800	54°37'54.67"
23+13,769	PT	648.181,2056	8.771.363,6367	57°47'14.81"
24+0,000		648.186,4776	8.771.366,9582	57°47'14.81"
25+0,000		648.203,3991	8.771.377,6195	57°47'14.81"
25+16,675	TC	648.217,5077	8.771.386,5084	57°47'14.81"
26+0,000		648.220,2906	8.771.388,3271	55°52'57.20"
26+11,619	PT	648.229,5099	8.771.395,3875	49°13'31.90"
27+0,000		648.235,8569	8.771.400,8612	49°13'31.90"
28+0,000		648.251,0026	8.771.413,9228	49°13'31.90"
29+0,000		648.266,1483	8.771.426,9845	49°13'31.90"
30+0,000		648.281,2941	8.771.440,0461	49°13'31.90"
31+0,000		648.296,4398	8.771.453,1078	49°13'31.90"
31+15,865	TC	648.308,4543	8.771.463,4691	49°13'31.90"
32+0,000		648.311,5966	8.771.466,1565	49°41'57.62"
33+0,000		648.327,1045	8.771.478,7840	51°59'28.22"
34+0,000		648.343,1049	8.771.490,7812	54°16'58.81"
34+7,529	PT	648.349,2510	8.771.495,1306	55°8'44.95"
35+0,000		648.359,4844	8.771.502,2574	55°8'44.95"
36+0,000		648.375,8966	8.771.513,6872	55°8'44.95"
36+13,318	TC	648.386,8257	8.771.521,2985	55°8'44.95"
37+0,000		648.392,0377	8.771.525,4715	47°29'21.05"
37+8,519	PT	648.397,7978	8.771.531,7337	37°43'38.38"
38+0,000		648.404,8232	8.771.540,8146	37°43'38.38"
38+2,964	PF	648.406,6371	8.771.543,1591	37°43'38.38"

PROJETO DE IMPLANTAÇÃO E PAVIMENTAÇÃO DA RODOVIA SE-469 E ACESSO 131 (BOQUIM/POV. MEIA LÉGUA)				
ESTACA	PONTO	LESTE	NORTE	AZIMUTE
<b>EIXO DE DRENAGEM</b>				
0+0,000	PP	650.208,8214	8.767.614,5567	279°30'24.74"
1+0,000		650.189,0960	8.767.617,8600	279°30'24.74"
2+0,000		650.169,3707	8.767.621,1633	279°30'24.74"
3+0,000		650.149,6454	8.767.624,4666	279°30'24.74"
4+0,000		650.129,9201	8.767.627,7700	279°30'24.74"
4+4,255	PI	650.125,7233	8.767.628,4728	279°30'24.74"
5+0,000		650.110,2706	8.767.631,4916	281°3'14.71"
6+0,000		650.090,6417	8.767.635,3263	281°3'14.71"
7+0,000		650.071,0128	8.767.639,1610	281°3'14.71"
7+11,724	PI	650.059,5060	8.767.641,4090	281°3'14.71"
8+0,000		650.051,5903	8.767.643,8232	286°57'40.10"
9+0,000		650.032,4602	8.767.649,6577	286°57'40.10"
10+0,000		650.013,3302	8.767.655,4921	286°57'40.10"
11+0,000		649.994,2001	8.767.661,3266	286°57'40.10"
12+0,000		649.975,0701	8.767.667,1610	286°57'40.10"
13+0,000		649.955,9400	8.767.672,9955	286°57'40.10"
14+0,000		649.936,8099	8.767.678,8300	286°57'40.10"
15+0,000		649.917,6799	8.767.684,6644	286°57'40.10"
16+0,000		649.898,5498	8.767.690,4989	286°57'40.10"
17+0,000		649.879,4198	8.767.696,3334	286°57'40.10"
18+0,000		649.860,2897	8.767.702,1678	286°57'40.10"
19+0,000		649.841,1597	8.767.708,0023	286°57'40.10"
20+0,000		649.822,0296	8.767.713,8367	286°57'40.10"
21+0,000		649.802,8995	8.767.719,6712	286°57'40.10"
22+0,000		649.783,7695	8.767.725,5057	286°57'40.10"
22+1,363	PI	649.782,4656	8.767.725,9033	286°57'40.10"
22+10,000	PF	649.774,8535	8.767.729,9841	298°11'44.69"