

ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00

NOTA DE SERVIÇO DE TERRAPLENAGEM

EIXO ESTRADA

LADO ESQUERDO						EIXO/LINHA BASE						LADO DIREITO					
OFFSET_CORTE-ESQ-01			BORDO_PISTA-ESQ-01			ESTACA	PONTOS NOTÁVEIS		COTA PROJETO	COTA TERRENO	COTA VERMELH A	JUNTA_ATERRO-DIR-01			OFFSET_ATERRO-DIR-01		
AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)	(m)	HOR	VER	(m)	(m)	(m)	AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)
-4,248	551,635	66,67	-3,5	551,136	-3	549+10,000			551,241	551,179	0,062	3,5	551,136	-3	3,598	551,071	-66,67
-4,006	551,082	66,67	-3,5	550,745	-3	550+0,000			550,85	550,856	-0,006						
						550+10,000			550,405	550,112	0,293						
						551+0,000		VCT	549,906	549,737	0,169						
-3,7	549,41	66,67	-3,5	549,276	-3	551+10,000			549,381	549,298	0,084						
-3,566	548,795	66,67	-3,5	548,751	-3	552+0,000			548,856	548,783	0,074	3,5	548,751	-3	3,609	548,679	-66,67
-3,51	548,233	66,67	-3,5	548,226	-3	552+10,000			548,331	548,222	0,109						
						553+0,000			547,806	547,735	0,071	3,5	547,701	-3	3,526	547,684	-66,67
						553+10,000			547,281	547,288	-0,006						
-3,738	546,81	66,67	-3,5	546,651	-3	554+0,000			546,756	546,753	0,003						
-3,852	546,361	66,67	-3,5	546,126	-3	554+10,000			546,231	546,264	-0,033						
-3,798	545,8	66,67	-3,5	545,601	-3	555+0,000			545,706	545,815	-0,108						

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AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)	(m)	HOR	VER	(m)	(m)	(m)	AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)
-3,633	545,165	66,67	-3,5	545,076	-3	555+10,000			545,181	545,227	-0,046						
-3,553	544,587	66,67	-3,5	544,551	-3	556+0,000		VTC	544,656	544,629	0,028						
-3,531	544,047	66,67	-3,5	544,026	-3	556+10,000			544,131	544,102	0,029						
-3,544	543,529	66,67	-3,5	543,5	-3	557+0,000			543,605	543,606	-0,001						
						557+10,000			543,078	543,004	0,074						
						558+0,000		VCT	542,551	542,227	0,325	3,5	542,446	-3	3,686	542,322	-66,67
						558+10,000			542,024	541,711	0,312	3,5	541,919	-3	4,036	541,561	-66,67
						559+0,000			541,496	541,083	0,413	3,5	541,391	-3	3,816	541,181	-66,67
						559+10,000			540,968	540,321	0,647	3,5	540,863	-3	3,993	540,535	-66,67
						560+0,000			540,441	539,824	0,616	3,5	540,336	-3	4,008	539,997	-66,67
						560+10,000			539,913	539,36	0,553	3,5	539,808	-3	4,222	539,327	-66,67
						561+0,000			539,386	538,891	0,495	3,5	539,281	-3	4,145	538,851	-66,67

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OFFSET_CORTE-ESQ-01			BORDO_PISTA-ESQ-01			ESTACA	PONTOS NOTÁVEIS		COTA PROJETO	COTA TERRENO	COTA VERMELH A	JUNTA_ATERRO-DIR-01			OFFSET_ATERRO-DIR-01		
AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)	(m)	HOR	VER	(m)	(m)	(m)	AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)
						561+10,000			538,858	538,425	0,433	3,5	538,753	-3	4,187	538,295	-66,67
						562+0,000		VTC	538,331	538	0,33	3,5	538,226	-3	3,992	537,898	-66,67
						562+10,000			537,84	537,619	0,221	3,5	537,735	-3	3,888	537,476	-66,67
-3,573	537,367	66,67	-3,5	537,318	-3	563+0,000			537,423	537,275	0,148	3,5	537,318	-3	3,81	537,112	-66,67
-3,719	537,122	66,67	-3,5	536,976	-3	563+10,000			537,081	537,026	0,055	3,5	536,976	-3	3,558	536,937	-66,67
-3,668	536,819	66,67	-3,5	536,707	-3	564+0,000		VCT	536,812	536,754	0,058	3,5	536,707	-3	3,529	536,688	-66,67
-4,014	536,819	66,67	-3,5	536,476	-3	564+10,000			536,581	536,517	0,064						
-4,077	536,629	66,67	-3,5	536,244	-3	565+0,000			536,349	536,365	-0,015						
-4,129	536,432	66,67	-3,5	536,013	-3	565+10,000			536,118	536,217	-0,099						
-3,84	536,007	66,67	-3,5	535,781	-3	566+0,000		VTC	535,886	535,945	-0,059						
-3,931	535,833	66,67	-3,5	535,546	-3	566+10,000			535,651	535,68	-0,03						
-3,774	535,486	66,67	-3,5	535,303	-3	567+0,000			535,408	535,36	0,049						

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LADO ESQUERDO						EIXO/LINHA BASE						LADO DIREITO					
OFFSET_CORTE-ESQ-01			BORDO_PISTA-ESQ-01			ESTACA	PONTOS NOTÁVEIS		COTA PROJETO	COTA TERRENO	COTA VERMELH A	JUNTA_ATERRO-DIR-01			OFFSET_ATERRO-DIR-01		
AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)	(m)	HOR	VER	(m)	(m)	(m)	AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)
-3,628	535,139	66,67	-3,5	535,054	-3	567+10,000			535,159	535,04	0,119						
						568+0,000		VCT	534,901	534,724	0,178	3,5	534,796	-3	3,616	534,719	-66,67
						568+10,000			534,641	534,433	0,208	3,5	534,536	-3	3,523	534,521	-66,67
						569+0,000			534,38	534,149	0,231	3,5	534,275	-3	3,56	534,235	-66,67
						569+10,000			534,119	533,866	0,254	3,5	534,014	-3	3,597	533,95	-66,67
						570+0,000			533,859	533,592	0,267	3,5	533,754	-3	3,642	533,659	-66,67
						570+10,000			533,598	533,335	0,263	3,5	533,493	-3	3,631	533,406	-66,67
-3,551	533,266	66,67	-3,5	533,232	-3	571+0,000			533,337	533,098	0,24	3,5	533,232	-3	3,573	533,184	-66,67
						571+10,000			533,077	532,863	0,214	3,5	532,972	-3	3,672	532,857	-66,67
						572+0,000			532,816	532,589	0,227	3,5	532,711	-3	3,732	532,556	-66,67
						572+10,000			532,555	532,41	0,146	3,5	532,45	-3	3,599	532,384	-66,67
						573+0,000			532,295	532,156	0,138						

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LADO ESQUERDO						EIXO/LINHA BASE						LADO DIREITO					
OFFSET_CORTE-ESQ-01			BORDO_PISTA-ESQ-01			ESTACA	PONTOS NOTÁVEIS		COTA PROJETO	COTA TERRENO	COTA VERMELH A	JUNTA_ATERRO-DIR-01			OFFSET_ATERRO-DIR-01		
AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)	(m)	HOR	VER	(m)	(m)	(m)	AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)
-3,536	531,953	66,67	-3,5	531,929	-3	573+10,000			532,034	531,959	0,075						
-3,653	531,771	66,67	-3,5	531,668	-3	574+0,000			531,773	531,704	0,069						
-3,621	531,488	66,67	-3,5	531,408	-3	574+10,000			531,513	531,46	0,052						
-3,588	531,206	66,67	-3,5	531,147	-3	575+0,000		VTC	531,252	531,217	0,036	3,5	531,147	-3	3,519	531,134	-66,67
						575+10,000			530,998	530,956	0,041						
-3,562	530,692	66,67	-3,5	530,65	-3	576+0,000			530,755	530,704	0,051						
-3,657	530,526	66,67	-3,5	530,421	-3	576+10,000			530,526	530,452	0,074						
-3,632	530,291	66,67	-3,5	530,203	-3	577+0,000		VCT	530,308	530,233	0,075						
-3,553	530,027	66,67	-3,5	529,992	-3	577+10,000			530,097	530,048	0,049						
-3,728	529,932	66,67	-3,5	529,78	-3	578+0,000			529,885	529,863	0,022						
-3,866	529,813	66,67	-3,5	529,569	-3	578+10,000			529,674	529,679	-0,005						
-3,756	529,528	66,67	-3,5	529,358	-3	579+0,000			529,463	529,461	0,002						

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OFFSET_CORTE-ESQ-01			BORDO_PISTA-ESQ-01			ESTACA	PONTOS NOTÁVEIS		COTA PROJETO	COTA TERRENO	COTA VERMELH A	JUNTA_ATERRO-DIR-01			OFFSET_ATERRO-DIR-01		
AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)	(m)	HOR	VER	(m)	(m)	(m)	AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)
-3,641	529,24	66,67	-3,5	529,146	-3	579+10,000			529,251	529,243	0,009						
-3,631	529,022	66,67	-3,5	528,935	-3	580+0,000		VTC	529,04	529,025	0,015						
-3,672	528,848	66,67	-3,5	528,733	-3	580+10,000			528,838	528,848	-0,01						
-3,644	528,648	66,67	-3,5	528,552	-3	581+0,000			528,657	528,617	0,04						
-3,925	528,674	66,67	-3,5	528,39	-3	581+10,000			528,495	528,415	0,08						
-3,787	528,439	66,67	-3,5	528,248	-3	582+0,000		VCT	528,353	528,352	0,001						
-3,615	528,193	66,67	-3,5	528,116	-3	582+10,000			528,221	528,233	-0,012						
-3,599	528,05	66,67	-3,5	527,984	-3	583+0,000			528,089	528,144	-0,055						
-3,568	527,898	66,67	-3,5	527,852	-3	583+10,000			527,957	527,91	0,047						
						584+0,000			527,825	527,798	0,027						
-3,561	527,629	66,67	-3,5	527,588	-3	584+10,000			527,693	527,625	0,068						
-3,724	527,606	66,67	-3,5	527,456	-3	585+0,000			527,561	527,509	0,052						

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OFFSET_CORTE-ESQ-01			BORDO_PISTA-ESQ-01			ESTACA	PONTOS NOTÁVEIS		COTA PROJETO	COTA TERRENO	COTA VERMELH A	JUNTA_ATERRO-DIR-01			OFFSET_ATERRO-DIR-01		
AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)	(m)	HOR	VER	(m)	(m)	(m)	AFAST. (m)	COTA (m)	DECL. (%)	AFAST. (m)	COTA (m)	DECL. (%)
-3,579	527,377	66,67	-3,5	527,324	-3	585+10,000			527,429	527,424	0,006						
			-3,5	527,219	-3	585+18,000			527,324	527,324	0						



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CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
0	0.84	0	0	0	0	0
1+10	0.51	6.76	6.76	2.80	6.76	2.80
1	0.53	5.19	5.19	1.74	11.96	4.54
1+10	0.36	4.43	4.43	6.36	16.39	10.91
2	0.18	2.72	2.72	12.84	19.11	23.74
2+10	0.03	1.08	1.08	17.40	20.19	41.15
3	0.00	0.16	0.16	15.71	20.36	56.85
3+10	0.20	1.01	1.01	5.98	21.36	62.83
4	0.24	2.23	2.23	0.78	23.59	63.61
4+10	0.36	3.00	3.00	0.73	26.59	64.34
5	0.00	1.79	1.79	12.75	28.38	77.10
5+10	0.00	0.01	0.01	20.37	28.39	97.46
6	0.00	0.00	0.00	25.52	28.39	122.99
6+10	0.00	0.00	0.00	27.04	28.39	150.03
7	0.00	0.00	0.00	19.23	28.39	169.26
7+10	0.00	0.00	0.00	17.11	28.39	186.38
8	0.03	0.14	0.14	12.71	28.53	199.08
8+10	0.45	2.38	2.38	7.04	30.91	206.13
9	0.00	2.24	2.24	6.71	33.14	212.84
9+10	0.00	0.00	0.00	17.90	33.14	230.74
10	0.00	0.00	0.00	39.63	33.14	270.37
10+10	0.00	0.00	0.00	72.04	33.14	342.41
11	0.00	0.00	0.00	71.26	33.14	413.67
11+10	0.00	0.00	0.00	44.46	33.14	458.13
12	0.04	0.20	0.20	32.20	33.34	490.33
12+10	0.15	0.96	0.96	19.55	34.30	509.88
13	0.29	2.23	2.23	5.98	36.53	515.86
13+10	1.62	9.58	9.58	0.06	46.11	515.92
14	2.19	19.08	19.08	0.00	65.19	515.92
14+10	0.75	14.70	14.70	0.00	79.89	515.92
15	0.05	3.98	3.98	0.73	83.87	516.65
15+10	0.11	0.81	0.81	3.16	84.68	519.81
16	0.44	2.79	2.79	3.29	87.47	523.11
16+10	0.42	4.35	4.35	0.98	91.82	524.09
17	1.01	7.17	7.17	0.12	98.99	524.21
17+10	0.89	9.51	9.51	0.00	108.50	524.21
18	0.27	5.79	5.79	0.15	114.29	524.36
18+10	0.00	1.33	1.33	4.46	115.62	528.83
19	0.00	0.00	0.00	9.24	115.63	538.06
19+10	0.00	0.00	0.00	12.87	115.63	550.93
20	0.10	0.51	0.51	12.08	116.15	563.01



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CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
20+10	0.01	0.55	0.55	7.21	116.69	570.23
21	0.10	0.54	0.54	7.64	117.23	577.87
21+10	0.00	0.50	0.50	10.68	117.74	588.55
22	0.00	0.00	0.00	11.89	117.74	600.44
22+10	0.00	0.01	0.01	13.84	117.75	614.28
23	0.47	2.36	2.36	21.35	120.10	635.63
23+10	0.00	2.35	2.35	37.08	122.45	672.71
24	0.00	0.00	0.00	59.59	122.45	732.30
24+10	0.00	0.00	0.00	80.18	122.45	812.48
25	0.00	0.00	0.00	103.92	122.45	916.40
25+10	0.00	0.00	0.00	136.53	122.45	1052.93
26	0.00	0.00	0.00	137.11	122.45	1190.04
26+10	0.00	0.00	0.00	102.85	122.45	1292.89
27	0.00	0.00	0.00	66.11	122.45	1359.00
27+10	0.02	0.08	0.08	33.39	122.53	1392.38
28	1.52	7.65	7.65	15.07	130.18	1407.45
28+10	3.98	27.46	27.46	6.90	157.64	1414.36
29	3.33	36.55	36.55	5.47	194.19	1419.83
29+10	1.69	25.11	25.11	11.67	219.30	1431.51
30	0.94	13.15	13.15	14.96	232.45	1446.46
30+10	0.44	6.88	6.88	13.65	239.33	1460.11
31	0.08	2.58	2.58	16.28	241.91	1476.39
31+10	0.11	0.97	0.97	14.36	242.89	1490.75
32	1.11	6.13	6.13	4.82	249.02	1495.58
32+10	4.16	26.36	26.36	0.00	275.38	1495.58
33	2.89	35.25	35.25	0.00	310.63	1495.58
33+10	0.56	17.25	17.25	0.13	327.88	1495.70
34	0.00	2.79	2.79	9.06	330.67	1504.77
34+10	0.00	0.00	0.00	24.15	330.67	1528.92
35	0.00	0.00	0.00	35.10	330.67	1564.02
35+10	0.00	0.00	0.00	43.03	330.67	1607.05
36	0.00	0.00	0.00	36.53	330.67	1643.59
36+10	0.00	0.00	0.00	19.09	330.67	1662.67
37	0.00	0.00	0.00	10.02	330.67	1672.69
37+10	0.00	0.00	0.00	9.79	330.67	1682.48
38	0.00	0.00	0.00	11.66	330.67	1694.14
38+10	0.00	0.01	0.01	12.88	330.68	1707.02
39	0.27	1.35	1.35	10.71	332.02	1717.74
39+10	0.62	4.43	4.43	9.21	336.45	1726.95
40	0.00	3.09	3.09	15.96	339.55	1742.91
40+10	0.00	0.00	0.00	31.86	339.55	1774.76



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CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
41	0.00	0.00	0.00	43.88	339.55	1818.65
41+10	0.00	0.00	0.00	44.67	339.55	1863.32
42	0.00	0.00	0.00	41.29	339.55	1904.61
42+10	0.00	0.00	0.00	30.24	339.55	1934.85
43	0.07	0.36	0.36	14.07	339.91	1948.92
43+10	0.60	3.35	3.35	4.02	343.25	1952.94
44	0.79	6.92	6.92	1.89	350.17	1954.82
44+10	0.07	4.29	4.29	4.70	354.46	1959.53
45	0.09	0.83	0.83	6.21	355.29	1965.74
45+10	0.01	0.52	0.52	4.61	355.81	1970.35
46	0.15	0.80	0.80	3.57	356.61	1973.92
46+10	0.23	1.92	1.92	3.40	358.53	1977.32
47	0.13	1.83	1.83	3.96	360.36	1981.28
47+10	0.29	2.12	2.12	3.05	362.48	1984.33
48	0.49	3.91	3.91	0.98	366.39	1985.31
48+10	0.75	6.22	6.22	0.07	372.60	1985.38
49	0.16	4.58	4.58	0.21	377.18	1985.59
49+10	0.07	1.15	1.15	1.73	378.33	1987.33
50	0.04	0.55	0.55	3.62	378.89	1990.95
50+10	0.03	0.38	0.38	4.69	379.26	1995.64
51	0.00	0.16	0.16	5.94	379.42	2001.58
51+10	0.07	0.34	0.34	6.80	379.77	2008.38
52	0.07	0.71	0.71	7.26	380.48	2015.65
52+10	0.00	0.37	0.37	7.93	380.85	2023.58
53	0.08	0.39	0.39	6.96	381.24	2030.55
53+10	0.05	0.63	0.63	5.17	381.87	2035.72
54	0.40	2.24	2.24	3.44	384.11	2039.15
54+10	0.21	3.03	3.03	2.68	387.14	2041.84
55	0.52	3.64	3.64	1.86	390.78	2043.70
55+10	0.04	2.79	2.79	3.12	393.57	2046.82
56	0.00	0.20	0.20	8.36	393.77	2055.18
56+10	0.03	0.15	0.15	9.58	393.92	2064.75
57	0.11	0.71	0.71	4.97	394.63	2069.73
57+10	0.08	0.96	0.96	2.84	395.59	2072.57
58	0.00	0.39	0.39	4.78	395.97	2077.36
58+10	0.32	1.60	1.60	5.73	397.57	2083.08
59	0.36	3.42	3.42	3.30	400.99	2086.38
59+10	0.11	2.36	2.36	1.67	403.35	2088.05
60	0.18	1.45	1.45	2.72	404.80	2090.77
60+10	0.13	1.54	1.54	1.91	406.35	2092.67
61	0.27	1.98	1.98	0.61	408.32	2093.28



ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00

CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
61+10	0.39	3.30	3.30	0.38	411.62	2093.66
62	0.71	5.50	5.50	0.20	417.12	2093.86
62+10	1.77	12.38	12.38	0.00	429.50	2093.86
63	2.38	20.73	20.73	0.04	450.23	2093.90
63+10	2.51	24.43	24.43	0.17	474.66	2094.07
64	1.13	18.18	18.18	0.54	492.84	2094.61
64+10	1.13	11.27	11.27	0.95	504.12	2095.56
65	0.65	8.90	8.90	1.97	513.02	2097.54
65+10	0.49	5.74	5.74	2.92	518.76	2100.46
66	0.94	7.18	7.18	2.26	525.95	2102.72
66+10	1.28	11.11	11.11	0.90	537.06	2103.62
67	1.88	15.82	15.82	0.14	552.87	2103.76
67+10	1.43	16.56	16.56	0.00	569.43	2103.76
68	1.13	12.78	12.78	0.00	582.22	2103.76
68+10	0.07	6.00	6.00	0.47	588.21	2104.23
69	0.00	0.38	0.38	2.02	588.60	2106.24
69+10	0.00	0.02	0.02	4.40	588.62	2110.65
70	0.00	0.00	0.00	7.88	588.62	2118.52
70+10	0.00	0.00	0.00	11.93	588.62	2130.45
71	0.00	0.00	0.00	15.40	588.62	2145.85
71+10	0.00	0.00	0.00	16.02	588.62	2161.86
72	0.16	0.81	0.81	10.17	589.43	2172.04
72+10	0.80	4.81	4.81	2.65	594.25	2174.69
73	1.24	10.18	10.18	0.01	604.43	2174.70
73+10	2.91	20.74	20.74	0.00	625.16	2174.70
74	1.57	22.43	22.43	0.27	647.60	2174.97
74+10	1.26	14.16	14.16	1.16	661.76	2176.13
75	0.94	10.98	10.98	1.39	672.73	2177.52
75+10	0.63	7.83	7.83	1.02	680.56	2178.54
76	1.31	9.69	9.69	0.80	690.25	2179.34
76+10	0.98	11.46	11.46	0.93	701.72	2180.27
77	0.36	6.74	6.74	1.94	708.45	2182.21
77+10	0.55	4.57	4.57	1.80	713.02	2184.01
78	0.23	3.92	3.92	0.58	716.94	2184.59
78+10	0.20	2.15	2.15	0.24	719.09	2184.83
79	0.24	2.20	2.20	0.19	721.29	2185.02
79+10	0.24	2.42	2.42	0.20	723.71	2185.22
80	0.15	1.97	1.97	0.57	725.68	2185.79
80+10	0.09	1.21	1.21	1.22	726.89	2187.02
81	0.04	0.64	0.64	2.86	727.53	2189.87
81+10	0.02	0.31	0.31	5.59	727.83	2195.46



ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00

CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
82	0.35	1.83	1.83	5.31	729.66	2200.77
82+10	0.40	3.71	3.71	3.77	733.38	2204.54
83	0.28	3.41	3.41	5.00	736.78	2209.54
83+10	0.14	2.15	2.15	7.85	738.93	2217.39
84	0.29	2.19	2.19	10.30	741.12	2227.69
84+10	0.76	5.25	5.25	5.77	746.37	2233.47
85	0.22	4.90	4.90	2.39	751.27	2235.85
85+10	0.00	1.11	1.11	9.42	752.38	2245.27
86	0.00	0.00	0.00	26.68	752.38	2271.95
86+10	0.00	0.00	0.00	38.05	752.38	2310.00
87	0.00	0.00	0.00	35.77	752.38	2345.76
87+10	0.00	0.00	0.00	32.16	752.38	2377.93
88	0.00	0.00	0.00	24.49	752.38	2402.42
88+10	0.20	1.00	1.00	13.44	753.38	2415.86
89	0.68	4.41	4.41	6.00	757.79	2421.86
89+10	0.75	7.17	7.17	2.70	764.96	2424.56
90	0.59	6.71	6.71	1.28	771.67	2425.84
90+10	0.64	6.13	6.13	1.42	777.81	2427.26
91	1.24	9.38	9.38	1.86	787.19	2429.12
91+10	1.43	13.34	13.34	1.08	800.53	2430.20
92	1.53	14.82	14.82	0.50	815.35	2430.69
92+10	1.35	14.44	14.44	0.99	829.79	2431.69
93	0.74	10.47	10.47	1.48	840.27	2433.17
93+10	0.39	5.65	5.65	1.94	845.91	2435.10
94	0.30	3.44	3.44	2.45	849.35	2437.55
94+10	0.64	4.68	4.68	2.70	854.03	2440.26
95	1.04	8.39	8.39	2.93	862.43	2443.18
95+10	1.43	12.34	12.34	3.66	874.77	2446.84
96	1.35	13.88	13.88	4.15	888.65	2450.99
96+10	1.85	15.98	15.98	3.61	904.63	2454.61
97	0.44	11.46	11.46	2.37	916.09	2456.97
97+10	0.38	4.10	4.10	0.96	920.18	2457.93
98	1.31	8.42	8.42	0.24	928.60	2458.17
98+10	0.49	8.99	8.99	0.34	937.59	2458.50
99	0.19	3.38	3.38	0.73	940.96	2459.23
99+10	0.13	1.58	1.58	1.40	942.54	2460.63
100	0.20	1.65	1.65	2.13	944.19	2462.76
100+10	0.39	2.93	2.93	1.39	947.11	2464.15
101	0.91	6.50	6.50	0.17	953.61	2464.32
101+10	1.03	9.74	9.74	0.01	963.35	2464.33
102	0.89	9.61	9.61	0.01	972.96	2464.34



ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00

CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
102+10	0.46	6.76	6.76	1.51	979.72	2465.86
103	0.36	4.10	4.10	7.94	983.82	2473.80
103+10	0.09	2.22	2.22	19.53	986.05	2493.32
104	0.00	0.44	0.44	28.00	986.49	2521.32
104+10	0.00	0.00	0.00	33.43	986.49	2554.75
105	0.00	0.00	0.00	39.46	986.49	2594.21
105+10	0.06	0.30	0.30	41.44	986.78	2635.64
106	0.96	5.11	5.11	40.38	991.90	2676.02
106+10	1.30	11.33	11.33	36.55	1003.23	2712.57
107	0.27	7.88	7.88	31.17	1011.11	2743.74
107+10	0.00	1.37	1.37	28.42	1012.47	2772.16
108	0.00	0.00	0.00	21.56	1012.47	2793.73
108+10	0.00	0.00	0.00	10.81	1012.48	2804.54
109	0.18	0.93	0.93	5.44	1013.41	2809.98
109+10	0.00	0.92	0.92	5.05	1014.33	2815.04
110	0.01	0.03	0.03	5.26	1014.36	2820.30
110+10	0.23	1.19	1.19	6.61	1015.55	2826.91
111	0.46	3.46	3.46	8.30	1019.01	2835.21
111+10	2.56	15.11	15.11	4.16	1034.12	2839.37
112	5.25	39.07	39.07	0.00	1073.20	2839.37
112+10	7.44	63.47	63.47	0.00	1136.66	2839.37
113	8.38	79.12	79.12	0.00	1215.79	2839.37
113+10	8.50	84.44	84.44	0.00	1300.23	2839.37
114	6.64	75.71	75.71	0.00	1375.93	2839.37
114+10	4.62	56.31	56.31	0.00	1432.24	2839.37
115	2.76	36.91	36.91	0.00	1469.15	2839.37
115+10	0.30	15.31	15.31	0.28	1484.46	2839.65
116	0.00	1.52	1.52	9.83	1485.98	2849.48
116+10	0.00	0.00	0.00	26.22	1485.98	2875.70
117	0.00	0.00	0.00	36.15	1485.98	2911.85
117+10	0.00	0.00	0.00	41.12	1485.98	2952.97
118	0.00	0.00	0.00	42.84	1485.98	2995.82
118+10	0.00	0.00	0.00	42.02	1485.98	3037.83
119	0.00	0.00	0.00	40.03	1485.98	3077.86
119+10	0.00	0.00	0.00	33.46	1485.98	3111.32
120	0.00	0.00	0.00	23.81	1485.98	3135.13
120+10	0.25	1.25	1.25	13.57	1487.22	3148.69
121	0.01	1.32	1.32	8.35	1488.54	3157.05
121+10	0.00	0.07	0.07	8.39	1488.61	3165.43
122	0.13	0.65	0.65	4.20	1489.26	3169.63
122+10	0.40	2.63	2.63	0.16	1491.89	3169.79



ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00

CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
123	0.17	2.83	2.83	0.54	1494.72	3170.33
123+10	0.40	2.85	2.85	0.54	1497.57	3170.87
124	0.93	6.63	6.63	0.00	1504.21	3170.87
124+10	1.62	12.71	12.71	0.00	1516.92	3170.87
125	1.90	17.58	17.58	0.00	1534.49	3170.87
125+10	1.57	17.34	17.34	0.00	1551.84	3170.87
126	1.21	13.91	13.91	0.00	1565.75	3170.87
126+10	0.73	9.71	9.71	0.00	1575.46	3170.87
127	1.07	8.98	8.98	0.00	1584.44	3170.87
127+10	0.56	8.14	8.14	1.48	1592.59	3172.36
128	0.34	4.51	4.51	5.85	1597.10	3178.20
128+10	0.18	2.59	2.59	8.43	1599.69	3186.63
129	0.02	1.00	1.00	9.24	1600.69	3195.87
129+10	0.01	0.14	0.14	10.17	1600.83	3206.05
130	0.73	3.69	3.69	5.00	1604.52	3211.04
130+10	2.54	16.34	16.34	0.00	1620.87	3211.04
131	3.73	31.37	31.37	0.00	1652.23	3211.04
131+10	2.89	33.14	33.14	0.00	1685.37	3211.04
132	1.50	21.97	21.97	0.00	1707.34	3211.04
132+10	1.19	13.47	13.47	1.10	1720.81	3212.14
133	1.99	15.90	15.90	3.28	1736.72	3215.42
133+10	0.23	11.08	11.08	6.94	1747.79	3222.36
134	0.05	1.38	1.38	13.23	1749.17	3235.60
134+10	0.00	0.25	0.25	21.56	1749.42	3257.16
135	0.00	0.00	0.00	33.04	1749.42	3290.20
135+10	0.00	0.00	0.00	49.18	1749.42	3339.38
136	0.00	0.00	0.00	65.75	1749.42	3405.13
136+10	0.00	0.00	0.00	79.89	1749.42	3485.02
137	0.00	0.00	0.00	99.53	1749.42	3584.55
137+10	0.00	0.00	0.00	116.59	1749.42	3701.13
138	0.00	0.00	0.00	117.77	1749.42	3818.90
138+10	0.00	0.00	0.00	106.26	1749.42	3925.16
139	0.00	0.00	0.00	88.89	1749.42	4014.05
139+10	0.00	0.00	0.00	72.47	1749.42	4086.52
140	0.00	0.00	0.00	58.97	1749.42	4145.49
140+10	0.00	0.00	0.00	45.91	1749.42	4191.40
141	0.00	0.00	0.00	34.62	1749.42	4226.02
141+10	0.01	0.03	0.03	25.89	1749.45	4251.91
142	0.15	0.77	0.77	18.30	1750.22	4270.21
142+10	0.29	2.18	2.18	11.00	1752.40	4281.21
143	0.68	4.84	4.84	4.90	1757.23	4286.11



ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00

CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
143+10	1.39	10.36	10.36	2.05	1767.59	4288.16
144	1.94	16.67	16.67	1.05	1784.26	4289.21
144+10	0.92	14.32	14.32	0.62	1798.57	4289.83
145	0.55	7.34	7.34	0.16	1805.92	4289.99
145+10	0.29	4.16	4.16	0.73	1810.07	4290.72
146	0.01	1.46	1.46	2.05	1811.53	4292.77
146+10	0.00	0.03	0.03	1.85	1811.56	4294.62
147	0.43	2.17	2.17	1.20	1813.74	4295.81
147+10	0.23	3.31	3.31	3.06	1817.05	4298.87
148	0.03	1.29	1.29	5.59	1818.34	4304.45
148+10	0.00	0.15	0.15	8.52	1818.49	4312.97
149	0.04	0.18	0.18	9.07	1818.67	4322.04
149+10	0.12	0.79	0.79	5.89	1819.46	4327.93
150	0.01	0.68	0.68	6.68	1820.15	4334.61
150+10	0.19	1.00	1.00	7.09	1821.14	4341.70
151	0.21	1.98	1.98	4.17	1823.13	4345.87
151+10	0.26	2.37	2.37	2.08	1825.50	4347.95
152	0.69	4.78	4.78	0.43	1830.28	4348.38
152+10	0.16	4.27	4.27	0.52	1834.54	4348.90
153	0.00	0.81	0.81	5.14	1835.35	4354.04
153+10	0.00	0.00	0.00	10.49	1835.35	4364.53
154	0.00	0.00	0.00	13.42	1835.35	4377.95
154+10	0.00	0.00	0.00	14.95	1835.35	4392.90
155	0.00	0.00	0.00	13.72	1835.35	4406.62
155+10	0.00	0.00	0.00	11.77	1835.35	4418.39
156	0.06	0.31	0.31	8.56	1835.66	4426.95
156+10	0.10	0.83	0.83	5.64	1836.49	4432.59
157	0.14	1.25	1.25	4.06	1837.74	4436.66
157+10	0.04	0.94	0.94	4.31	1838.68	4440.97
158	0.06	0.54	0.54	12.99	1839.23	4453.95
158+10	0.38	2.24	2.24	27.00	1841.47	4480.95
159	0.08	2.34	2.34	46.03	1843.81	4526.99
159+10	0.00	0.42	0.42	68.15	1844.23	4595.14
160	0.13	0.63	0.63	60.38	1844.86	4655.52
160+10	0.00	0.65	0.65	36.45	1845.51	4691.97
161	0.00	0.02	0.02	21.31	1845.53	4713.28
161+10	0.23	1.17	1.17	6.57	1846.70	4719.85
162	0.02	1.27	1.27	2.18	1847.97	4722.04
162+10	0.00	0.10	0.10	6.13	1848.06	4728.16
163	0.00	0.00	0.00	11.78	1848.06	4739.94
163+10	0.00	0.00	0.00	16.05	1848.06	4756.00