



ANEXO - VOLUME POR SEÇÕES

Calculado pelo método da semi-distancia.

Estaca	m2 Corte	m2 Aterro	Acc m2 Corte	Acc m2 Aterro	m Semi-Dist	m3 Corte	m3 Aterro	Acc m3 Corte	Acc m3 Aterro
186	0.00	2.45	0.00	2.45					
186+11.697	0.00	1.63	0.00	4.08	5.85	0.00	23.87	0.00	23.87
187	0.00	1.43	0.00	5.51	4.15	0.01	12.70	0.01	36.57
188	0.17	1.15	0.17	6.66	9.98	1.69	25.74	1.70	62.32
189	1.82	1.61	1.99	8.27	9.98	19.81	27.60	21.51	89.91
190	3.39	1.19	5.38	9.46	9.98	52.01	27.94	73.53	117.86
191	0.00	4.43	5.38	13.89	9.98	33.85	56.03	107.38	173.89
191+3.150	0.00	5.34	5.38	19.22	1.58	0.00	15.38	107.38	189.27
191+5.790	0.00	5.67	5.38	24.89	1.32	0.00	14.52	107.38	203.79
192	0.00	6.69	5.38	31.58	7.10	0.00	87.74	107.38	291.53
193	0.69	1.64	6.07	33.22	9.99	6.91	83.26	114.29	374.78
194	3.76	0.70	9.83	33.92	9.99	44.46	23.40	158.75	398.18
195	0.00	2.89	9.83	36.80	9.99	37.55	35.81	196.30	433.99
195+9.511	0.00	4.09	9.83	40.89	4.75	0.00	33.15	196.30	467.15
195+11.351	0.00	3.72	9.83	44.61	0.92	0.00	7.19	196.30	474.33
196	0.00	4.44	9.83	49.05	4.32	0.00	35.27	196.30	509.61
197	0.00	3.83	9.83	52.88	10.00	0.00	82.66	196.30	592.27
198	0.34	2.16	10.17	55.04	10.00	3.45	59.92	199.75	652.19
198+7.101	0.85	1.71	11.02	56.75	3.55	4.25	13.73	204.00	665.92
199	0.03	0.96	11.05	57.71	6.45	5.67	17.17	209.67	683.09
199+3.503	0.00	2.03	11.05	59.73	1.75	0.05	5.22	209.72	688.32
200	0.00	4.10	11.05	63.84	8.24	0.00	50.50	209.72	738.82
200+12.846	0.00	3.83	11.05	67.67	6.42	0.00	50.93	209.72	789.75
201	0.00	4.80	11.05	72.47	3.58	0.00	30.88	209.72	820.63
202	0.00	4.59	11.05	77.05	10.00	0.00	93.87	209.72	914.49
203	0.32	0.86	11.37	77.91	10.00	3.16	54.44	212.88	968.94
					10.00	33.85	8.58	246.73	977.52



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204	3.07	0.00	14.44	77.91					
					6.62	51.51	0.00	298.24	977.52
204+13.247	4.71	0.00	19.15	77.91					
					3.38	33.48	0.00	331.72	977.52
205	5.21	0.00	24.36	77.91					
					9.98	66.39	8.27	398.11	985.79
206	1.44	0.83	25.80	78.74					
					3.10	4.47	11.64	402.59	997.43
206+6.211	0.00	2.92	25.80	81.66					
					6.89	2.99	57.66	405.57	1055.09
207	0.43	5.44	26.23	87.10					
					10.00	33.21	54.43	438.78	1109.52
208	2.89	0.00	29.12	87.10					
					10.00	132.22	0.00	571.00	1109.52
209	10.33	0.00	39.45	87.10					
					10.00	216.62	0.00	787.62	1109.52
210	11.33	0.00	50.78	87.10					
					10.00	175.61	0.00	963.24	1109.52
211	6.23	0.00	57.01	87.10					
					10.00	71.24	0.00	1034.48	1109.52
212	0.89	0.00	57.90	87.10					
					10.00	28.62	0.07	1063.11	1109.59
213	1.97	0.01	59.88	87.11					
					10.00	21.34	0.27	1084.45	1109.86
214	0.16	0.02	60.04	87.13					
					10.00	26.82	0.19	1111.27	1110.05
215	2.52	0.00	62.56	87.13					
					6.84	41.06	0.00	1152.33	1110.05
215+13.678	3.48	0.00	66.04	87.13					
					2.94	19.92	0.00	1172.24	1110.05
215+19.568	3.28	0.00	69.32	87.13					
					0.22	1.41	0.00	1173.65	1110.05
216	3.25	0.00	72.57	87.13					
					10.00	63.72	0.00	1237.38	1110.05
217	3.12	0.00	75.69	87.13					
					10.00	71.15	0.00	1308.53	1110.05
218	3.99	0.00	79.69	87.13					
					10.00	81.49	0.00	1390.01	1110.05
219	4.16	0.00	83.84	87.13					
					10.00	93.39	0.00	1483.41	1110.05
220	5.18	0.00	89.03	87.13					
					6.93	71.01	0.00	1554.42	1110.05
220+13.858	5.07	0.00	94.09	87.13					
					3.07	27.77	0.00	1582.19	1110.05
221	3.98	0.00	98.07	87.13					
					6.54	50.27	0.00	1632.47	1110.05
221+13.086	3.71	0.00	101.78	87.13					
					3.46	25.61	0.00	1658.08	1110.05
222	3.70	0.00	105.48	87.13					
					10.00	64.86	0.00	1722.93	1110.05
223	2.79	0.00	108.27	87.13					
					10.00	56.87	0.00	1779.80	1110.05
224	2.90	0.00	111.17	87.13					
					10.00	45.07	0.10	1824.87	1110.15
225	1.61	0.01	112.77	87.14					
					10.00	32.80	0.10	1857.67	1110.25
226	1.67	0.00	114.44	87.14					
					2.48	8.63	0.00	1866.30	1110.25
226+4.951	1.81	0.00	116.26	87.14					
					7.52	15.74	0.14	1882.04	1110.39
227	0.28	0.02	116.54	87.16					



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228	2.43	0.00	118.97	87.16	9.98	27.06	0.19	1909.10	1110.58
228+14.169	2.64	0.00	121.61	87.16	7.08	35.89	0.00	1944.99	1110.58
229	2.18	0.04	123.79	87.20	2.92	14.04	0.11	1959.03	1110.69
230	0.69	0.40	124.47	87.60	10.00	28.64	4.40	1987.67	1115.08
231	0.72	0.01	125.19	87.61	10.00	14.08	4.11	2001.74	1119.19
232	1.64	0.19	126.83	87.80	10.00	23.58	1.97	2025.33	1121.16
233	1.21	1.03	128.04	88.83	10.00	28.45	12.19	2053.78	1133.35
233+1.491	1.15	1.00	129.19	89.83	0.75	1.76	1.51	2055.54	1134.87
234	1.00	0.11	130.19	89.94	9.25	19.89	10.27	2075.43	1145.14
235	0.07	0.35	130.26	90.29	10.00	10.64	4.57	2086.07	1149.71
236	0.03	0.21	130.29	90.49	10.00	1.02	5.57	2087.09	1155.28
237	0.05	0.17	130.34	90.66	10.00	0.88	3.76	2087.98	1159.04
237+12.734	0.09	0.11	130.43	90.78	6.37	0.89	1.81	2088.87	1160.84
238	0.13	0.17	130.56	90.95	3.63	0.79	1.05	2089.66	1161.89
239	0.04	0.61	130.60	91.56	10.00	1.74	7.87	2091.40	1169.76
239+3.702	0.03	0.76	130.64	92.32	1.85	0.14	2.54	2091.54	1172.30
240	0.00	1.06	130.64	93.39	8.14	0.28	14.84	2091.82	1187.14
241	0.69	0.00	131.33	93.39	9.98	6.94	10.63	2098.75	1197.77
241+0.758	0.67	0.00	132.00	93.39	0.38	0.52	0.00	2099.27	1197.77
241+14.560	0.33	0.01	132.33	93.39	6.90	6.91	0.05	2106.18	1197.82

Volume Total de Corte: 2106.18 m3
Volume Total de Aterro: 1197.82 m3

São Pedro da União, 25 de janeiro de 202.

Higor Augusto Sabag de Paulo
Engenheiro Civil
CREA MG 238.615/D
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