

Nota de Serviço - SANTOS DUMONT

RUA DA PAZ RUA DA PAZ 0+0.000 11+11.620

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-6.086	78.333	-17.58	-5.999	78.348	21.30	-4.920	78.118	159.00	-4.800	77.928	-2.00	0+0.000			78.364	78.364	0.000	4.800	77.928	-2.00	4.920	78.118	159.00	5.999	78.348	21.30			
-6.083	78.452	-15.28	-5.999	78.465	21.30	-4.920	78.235	159.00	-4.800	78.045	-2.00	1+0.000			78.481	78.481	-0.001	4.800	78.045	-2.00	4.920	78.235	159.00	5.999	78.465	21.30	6.017	78.519	308.11
-6.077	78.575	-8.66	-5.999	78.582	21.30	-4.920	78.352	159.00	-4.800	78.162	-2.00	2+0.000			78.598	78.599	-0.001	4.800	78.162	-2.00	4.920	78.352	159.00	5.999	78.582	21.30	6.038	78.615	85.19
-6.071	78.698	-0.92	-5.999	78.699	21.30	-4.920	78.469	159.00	-4.800	78.279	-2.00	3+0.000			78.715	78.709	0.006	4.800	78.279	-2.00	4.920	78.469	159.00	5.999	78.699	21.30	6.059	78.711	19.77
-6.067	78.819	4.46	-5.999	78.816	21.30	-4.920	78.586	159.00	-4.800	78.396	-2.00	4+0.000			78.832	78.816	0.016	4.800	78.396	-2.00	4.920	78.586	159.00	5.999	78.816	21.30	6.075	78.812	-5.69
-6.081	78.923	-12.66	-5.999	78.933	21.30	-4.920	78.703	159.00	-4.800	78.513	-2.00	5+0.000			78.949	78.918	0.031	4.800	78.513	-2.00	4.920	78.703	159.00	5.999	78.933	21.30	6.089	78.914	-20.98
-6.095	79.025	-25.91	-5.999	79.050	21.30	-4.920	78.820	159.00	-4.800	78.630	-2.00	6+0.000			79.066	79.021	0.045	4.800	78.630	-2.00	4.920	78.820	159.00	5.999	79.050	21.30	6.104	79.017	-32.00
-6.088	79.150	-19.52	-5.999	79.167	21.30	-4.920	78.937	159.00	-4.800	78.747	-2.00	7+0.000			79.183	79.149	0.034	4.800	78.747	-2.00	4.920	78.937	159.00	5.999	79.167	21.30	6.089	79.149	-20.43
-6.047	79.308	49.71	-5.999	79.284	21.30	-4.920	79.054	159.00	-4.800	78.864	-2.00	8+0.000			79.300	79.307	-0.007	4.800	78.864	-2.00	4.920	79.054	159.00	5.999	79.284	21.30	6.048	79.307	46.62
-6.047	79.425	49.71	-5.999	79.401	21.30	-4.920	79.171	159.00	-4.800	78.981	-2.00	9+0.000		PCV	79.417	79.464	-0.047	4.800	78.981	-2.00	4.920	79.171	159.00	5.999	79.401	21.30	6.048	79.424	46.62
-6.047	79.495	49.71	-5.999	79.472	21.30	-4.920	79.242	159.00	-4.800	79.052	-2.00	9+10.863			79.488	79.534	-0.046	4.800	79.052	-2.00	4.920	79.242	159.00	5.999	79.472	21.30	6.048	79.494	46.62
-6.047	79.569	49.71	-5.999	79.546	21.30	-4.920	79.316	159.00	-4.800	79.126	-2.00	10+0.000			79.562	79.577	-0.016	4.800	79.126	-2.00	4.920	79.316	159.00	5.999	79.546	21.30	6.048	79.568	46.62
-6.047	79.728	49.71	-5.999	79.705	21.30	-4.920	79.475	159.00	-4.800	79.285	-2.00	10+15.849			79.721	79.769	-0.048	4.800	79.285	-2.00	4.920	79.475	159.00	5.999	79.705	21.30	6.048	79.727	46.62
-6.047	79.777	49.71	-5.999	79.753	21.30	-4.920	79.523	159.00	-4.800	79.333	-2.00	11+0.000		PTV	79.769	79.841	-0.072	4.800	79.333	-2.00	4.920	79.523	159.00	5.999	79.753	21.30	6.048	79.776	46.62
-6.047	79.777	49.71	-5.999	79.753	21.30	-4.920	79.523	159.00	-4.800	79.333	-2.00	11+11.620			79.769	79.913	-0.144	4.800	79.333	-2.00	4.920	79.523	159.00	5.999	79.753	21.30	6.048	79.776	46.62

RUA REJANE CARVALHO RUA REJANE CARVALHO SILVA 0+0.000 8+13.037

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
0+0.000			79.488	79.534	-0.046																	0.000	0.000	0.00					
1+0.000			79.438	79.495	-0.057																	0.000	0.000	0.00					
1+1.340	PC		79.435	79.490	-0.056																	0.000	0.000	0.00					
-3.721	79.492	235.55	-3.700	79.442	21.30	-2.620	79.212	159.00	-2.500	79.022	-2.00	1+10.449			79.412	79.463	-0.051	2.500	79.022	-2.00	2.620	79.212	159.00	3.700	79.442	21.30	3.773	79.439	-3.82
-3.719	79.471	262.19	-3.700	79.419	21.30	-2.620	79.189	159.00	-2.500	78.999	-2.00	1+19.559	PT		79.389	79.441	-0.052	2.500	78.999	-2.00	2.620	79.189	159.00	3.700	79.419	21.30	3.773	79.417	-3.53
-3.719	79.470	265.48	-3.700	79.418	21.30	-2.620	79.188	159.00	-2.500	78.998	-2.00	2+0.000			79.388	79.440	-0.052	2.500	78.998	-2.00	2.620	79.188	159.00	3.700	79.418	21.30	3.773	79.416	-3.33
-3.716	79.452	341.84	-3.700	79.397	21.30	-2.620	79.167	159.00	-2.500	78.977	-2.00	2+8.389	PC		79.367	79.423	-0.056	2.500	78.977	-2.00	2.620	79.167	159.00	3.700	79.397	21.30	3.770	79.398	0.71
-3.715	79.441	365.14	-3.700	79.385	21.30	-2.620	79.155	159.00	-2.500	78.965	-2.00	2+13.248			79.355	79.412	-0.057	2.500	78.965	-2.00	2.620	79.155	159.00	3.700	79.385	21.30	3.769	79.387	2.78
-3.716	79.428	341.42	-3.700	79.373	21.30	-2.620	79.143	159.00	-2.500	78.953	-2.00	2+18.106	PT		79.343	79.399	-0.056	2.500	78.953	-2.00	2.620	79.143	159.00	3.700	79.373	21.30	3.768	79.375	3.04
-3.716	79.423	328.90	-3.700	79.368	21.30	-2.620	79.138	159.00	-2.500	78.948	-2.00	3+0.000			79.338	79.394	-0.056	2.500	78.948	-2.00	2.620	79.138	159.00	3.700	79.368	21.30	3.769	79.370	2.54
-3.729	79.359	138.41	-3.700	79.318	21.30	-2.620	79.088	159.00	-2.500	78.898	-2.00	4+0.000			79.288	79.331	-0.043	2.500	78.898	-2.00	2.620	79.088	159.00	3.700	79.318	21.30	3.782	79.307	-13.98
-3.743	79.296	64.17	-3.700	79.268	21.30	-2.620	79.038	159.00	-2.500	78.848	-2.00	5+0.000			79.238	79.267	-0.029	2.500	78.848	-2.00	2.620	79.038	159.00	3.700	79.268	21.30	3.797	79.242	-26.90
-3.754	79.235	30.38	-3.700	79.218	21.30	-2.620	78.988	159.00	-2.500	78.798	-2.00	6+0.000			79.188	79.204	-0.016	2.500	78.798	-2.00	2.620	78.988	159.00	3.700	79.218	21.30	3.815	79.174	-38.65
-3.762	79.177	14.27	-3.700	79.168	21.30	-2.620	78.938	159.00	-2.500	78.748	-2.00	7+0.000			79.138	79.147	-0.008	2.500	78.748	-2.00	2.620	78.938	159.00	3.700	79.168	21.30	3.849	79.090	-52.59
-3.769	79.120	1.71	-3.700	79.118	21.30	-2.620	78.888	159.00	-2.500	78.698	-2.00	8+0.000			79.088	79.092	-0.003	2.500	78.698	-2.00	2.620	78.888	159.00	3.700	79.118	21.30	3.883	79.006	-61.37
-3.777	79.079	-8.21	-3.700	79.086	21.30	-2.620	78.856	159.00	-2.500	78.666	-2.00	8+13.037			79.056	79.056	0.000	2.500	78.666	-2.00	2.620	78.856	159.00	3.700	79.086	21.30			



SECRETARIA MUNICIPAL DE INFRAESTRUTURA - SEMINFRA

Ruas da Cidade Universitária e do Santos  
Dumont – Extensão 20,92 km

Projeto de Terraplenagem - Nota de Serviço

Julho/2022

Sem Escala



RUA MARIA DAS NEVES RUA MARIA DAS NEVES 0+0.000 13+17.458

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.674	79.661	-59.25	-4.499	79.764	21.30	-3.419	79.534	159.00	-3.300	79.344	-2.00	0+0.000		PCV	79.750	79.750	0.000	3.300	79.344	-2.00	3.419	79.534	159.00	4.499	79.764	21.30			
-4.674	79.616	-59.25	-4.499	79.719	21.30	-3.419	79.489	159.00	-3.300	79.299	-2.00	1+0.000			79.705	79.668	0.037	3.300	79.299	-2.00	3.419	79.489	159.00	4.499	79.719	21.30			
-4.674	79.606	-59.25	-4.499	79.710	21.30	-3.419	79.480	159.00	-3.300	79.290	-2.00	1+16.537	PC		79.696	79.706	-0.010	3.300	79.290	-2.00	3.419	79.480	159.00	4.499	79.710	21.30			
-4.674	79.606	-59.25	-4.499	79.710	21.30	-3.419	79.480	159.00	-3.300	79.290	-2.00	1+16.579			79.696	79.706	-0.010	3.300	79.290	-2.00	3.419	79.480	159.00	4.499	79.710	21.30			
-4.674	79.606	-59.25	-4.499	79.710	21.30	-3.419	79.480	159.00	-3.300	79.290	-2.00	1+16.620	PT		79.696	79.706	-0.010	3.300	79.290	-2.00	3.419	79.480	159.00	4.499	79.710	21.30			
-4.674	79.608	-59.25	-4.499	79.711	21.30	-3.419	79.481	159.00	-3.300	79.291	-2.00	2+0.000			79.697	79.692	0.005	3.300	79.291	-2.00	3.419	79.481	159.00	4.499	79.711	21.30			
-4.674	79.644	-59.25	-4.499	79.747	21.30	-3.419	79.517	159.00	-3.300	79.327	-2.00	3+0.000			79.733	79.730	0.003	3.300	79.327	-2.00	3.419	79.517	159.00	4.499	79.747	21.30			
-4.674	79.703	-59.25	-4.499	79.807	21.30	-3.419	79.577	159.00	-3.300	79.387	-2.00	3+16.021	PC		79.793	79.784	0.009	3.300	79.387	-2.00	3.419	79.577	159.00	4.499	79.807	21.30			
-4.674	79.718	-59.25	-4.499	79.822	21.30	-3.419	79.592	159.00	-3.300	79.402	-2.00	3+19.184			79.808	79.818	-0.011	3.300	79.402	-2.00	3.419	79.592	159.00	4.499	79.822	21.30			
-4.674	79.723	-59.25	-4.499	79.826	21.30	-3.419	79.596	159.00	-3.300	79.406	-2.00	4+0.000			79.812	79.827	-0.016	3.300	79.406	-2.00	3.419	79.596	159.00	4.499	79.826	21.30			
-4.674	79.735	-59.25	-4.499	79.838	21.30	-3.419	79.608	159.00	-3.300	79.418	-2.00	4+2.347	PT	PTV	79.824	79.849	-0.025	3.300	79.418	-2.00	3.419	79.608	159.00	4.499	79.838	21.30			
-4.674	79.819	-59.25	-4.499	79.922	21.30	-3.419	79.692	159.00	-3.300	79.502	-2.00	4+16.507	PC		79.908	79.913	-0.005	3.300	79.502	-2.00	3.419	79.692	159.00	4.499	79.922	21.30			
-4.674	79.820	-59.25	-4.499	79.923	21.30	-3.419	79.693	159.00	-3.300	79.503	-2.00	4+16.642			79.909	79.913	-0.004	3.300	79.503	-2.00	3.419	79.693	159.00	4.499	79.923	21.30			
-4.674	79.821	-59.25	-4.499	79.924	21.30	-3.419	79.694	159.00	-3.300	79.504	-2.00	4+16.777	PT		79.910	79.914	-0.004	3.300	79.504	-2.00	3.419	79.694	159.00	4.499	79.924	21.30			
-4.674	79.841	-59.25	-4.499	79.944	21.30	-3.419	79.714	159.00	-3.300	79.524	-2.00	5+0.000			79.930	79.925	0.005	3.300	79.524	-2.00	3.419	79.714	159.00	4.499	79.944	21.30			
-4.569	79.887	1.87	-4.499	79.885	21.30	-3.419	79.655	159.00	-3.300	79.465	-2.00	6+0.000			79.871	79.858	0.014	3.300	79.465	-2.00	3.419	79.655	159.00	4.499	79.885	21.30	4.627	79.828	-44.50
-4.568	79.866	3.32	-4.499	79.863	21.30	-3.419	79.633	159.00	-3.300	79.443	-2.00	6+5.451	PC		79.849	79.837	0.013	3.300	79.443	-2.00	3.419	79.633	159.00	4.499	79.863	21.30	4.626	79.807	-44.06
-4.568	79.847	3.45	-4.499	79.844	21.30	-3.419	79.614	159.00	-3.300	79.424	-2.00	6+10.125			79.830	79.818	0.012	3.300	79.424	-2.00	3.419	79.614	159.00	4.499	79.844	21.30	4.625	79.789	-43.65
-4.569	79.827	2.54	-4.499	79.826	21.30	-3.419	79.596	159.00	-3.300	79.406	-2.00	6+14.800	PT		79.812	79.799	0.012	3.300	79.406	-2.00	3.419	79.596	159.00	4.499	79.826	21.30	4.625	79.771	-43.53
-4.569	79.806	1.70	-4.499	79.805	21.30	-3.419	79.575	159.00	-3.300	79.385	-2.00	7+0.000		PCV	79.791	79.778	0.013	3.300	79.385	-2.00	3.419	79.575	159.00	4.499	79.805	21.30	4.626	79.749	-43.79
-4.564	79.731	9.71	-4.499	79.724	21.30	-3.419	79.494	159.00	-3.300	79.304	-2.00	8+0.000			79.710	79.702	0.009	3.300	79.304	-2.00	3.419	79.494	159.00	4.499	79.724	21.30	4.622	79.673	-42.20
-4.547	79.710	48.23	-4.499	79.687	21.30	-3.419	79.457	159.00	-3.300	79.267	-2.00	8+10.366	PC		79.673	79.682	-0.008	3.300	79.267	-2.00	3.419	79.457	159.00	4.499	79.687	21.30	4.605	79.652	-32.90
-4.547	79.710	49.48	-4.499	79.686	21.30	-3.419	79.456	159.00	-3.300	79.266	-2.00	8+10.644			79.672	79.681	-0.009	3.300	79.266	-2.00	3.419	79.456	159.00	4.499	79.686	21.30	4.605	79.652	-32.66
-4.547	79.709	50.75	-4.499	79.685	21.30	-3.419	79.455	159.00	-3.300	79.265	-2.00	8+10.923	PT		79.671	79.680	-0.009	3.300	79.265	-2.00	3.419	79.455	159.00	4.499	79.685	21.30	4.605	79.651	-32.41
-4.536	79.692	95.65	-4.499	79.657	21.30	-3.419	79.427	159.00	-3.300	79.237	-2.00	9+0.000			79.643	79.663	-0.020	3.300	79.237	-2.00	3.419	79.427	159.00	4.499	79.657	21.30	4.594	79.634	-24.55
-4.525	79.653	182.05	-4.499	79.607	21.30	-3.419	79.377	159.00	-3.300	79.187	-2.00	10+0.000			79.593	79.624	-0.031	3.300	79.187	-2.00	3.419	79.377	159.00	4.499	79.607	21.30	4.582	79.595	-14.30
-4.525	79.645	183.39	-4.499	79.599	21.30	-3.419	79.369	159.00	-3.300	79.179	-2.00	10+4.134	PC		79.585	79.616	-0.031	3.300	79.179	-2.00	3.419	79.369	159.00	4.499	79.599	21.30	4.582	79.587	-14.17
-4.525	79.635	180.39	-4.499	79.589	21.30	-3.419	79.359	159.00	-3.300	79.169	-2.00	10+9.346			79.575	79.606	-0.031	3.300	79.169	-2.00	3.419	79.359	159.00	4.499	79.589	21.30	4.583	79.577	-14.91
-4.525	79.626	173.77	-4.499	79.581	21.30	-3.419	79.351	159.00	-3.300	79.161	-2.00	10+14.558	PT		79.567	79.597	-0.030	3.300	79.161	-2.00	3.419	79.351	159.00	4.499	79.581	21.30	4.584	79.568	-15.94
-4.527	79.618	155.52	-4.499	79.574	21.30	-3.419	79.344	159.00	-3.300	79.154	-2.00	11+0.000			79.560	79.589	-0.028	3.300	79.154	-2.00	3.419	79.344	159.00	4.499	79.574	21.30	4.586	79.558	-18.27
-4.533	79.606	114.82	-4.499	79.568	21.30	-3.419	79.338	159.00	-3.300	79.148	-2.00	11+6.130	PC		79.554	79.578	-0.024	3.300	79.148	-2.00	3.419	79.338	159.00	4.499	79.568	21.30	4.593	79.545	-24.25
-4.537	79.598	89.22	-4.499	79.565	21.30	-3.419	79.335	159.00	-3.300	79.145	-2.00	11+9.955			79.551	79.571	-0.020	3.300	79.145	-2.00	3.419	79.335	159.00	4.499	79.565	21.30	4.595	79.541	-25.38
-4.543	79.590	64.79	-4.499	79.562	21.30	-3.419	79.332	159.00	-3.300	79.142	-2.00	11+13.779	PT	PTV	79.548	79.563	-0.014	3.300	79.142	-2.00	3.419	79.332	159.00	4.499	79.562	21.30	4.597	79.536	-26.87
-4.553	79.577	32.83	-4.499	79.559	21.30	-3.419	79.329	159.00	-3.300	79.139	-2.00	12+0.000			79.545	79.549	-0.004	3.300	79.139	-2.00	3.419	79.329	159.00	4.499	79.559	21.30	4.602	79.528	-30.56
-4.587	79.534	-19.21	-4.499	79.551	21.30	-3.419	79.321	159.00	-3.300	79.131	-2.00	13+0.000			79.537	79.536	0.001	3.300	79.131	-2.00	3.41.								

  
Victor Leonardo Acioli Barros  
Engenheiro Civil  
CREA Reg. Nac. Nº 0210384751

RUA LOT. CARIBE III RUA LOTEAMENTO CARIBE III 0+0.000 14+0.464

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.598	80.809	-28.28	-4.499	80.837	21.30	-3.419	80.607	159.00	-3.300	80.417	-2.00	0+0.000			80.823	80.823	0.000	3.300	80.417	-2.00	3.419	80.607	159.00	4.499	80.837	21.30	4.625	80.783	-43.35
-4.598	80.902	-28.28	-4.499	80.930	21.30	-3.419	80.700	159.00	-3.300	80.510	-2.00	1+0.000			80.916	80.916	0.001	3.300	80.510	-2.00	3.419	80.700	159.00	4.499	80.930	21.30	4.625	80.876	-43.35
-4.598	80.978	-28.28	-4.499	81.006	21.30	-3.419	80.776	159.00	-3.300	80.586	-2.00	1+16.188	PC		80.992	80.995	-0.003	3.300	80.586	-2.00	3.419	80.776	159.00	4.499	81.006	21.30	4.625	80.952	-43.35
-4.598	80.985	-28.28	-4.499	81.013	21.30	-3.419	80.783	159.00	-3.300	80.593	-2.00	1+17.638			80.999	81.002	-0.003	3.300	80.593	-2.00	3.419	80.783	159.00	4.499	81.013	21.30	4.625	80.958	-43.35
-4.598	80.992	-28.28	-4.499	81.020	21.30	-3.419	80.790	159.00	-3.300	80.600	-2.00	1+19.088	PT		81.006	81.007	-0.001	3.300	80.600	-2.00	3.419	80.790	159.00	4.499	81.020	21.30	4.625	80.965	-43.35
-4.598	80.996	-28.28	-4.499	81.024	21.30	-3.419	80.794	159.00	-3.300	80.604	-2.00	2+0.000		PCV	81.010	81.009	0.000	3.300	80.604	-2.00	3.419	80.794	159.00	4.499	81.024	21.30	4.625	80.970	-43.35
-4.521	81.154	231.69	-4.499	81.105	21.30	-3.419	80.875	159.00	-3.300	80.685	-2.00	3+0.000			81.091	81.092	-0.001	3.300	80.685	-2.00	3.419	80.875	159.00	4.499	81.105	21.30	4.647	81.028	-52.00
-4.544	81.219	253.42	-4.499	81.105	21.30	-3.419	80.875	159.00	-3.300	80.685	-2.00	3+12.574	PC		81.091	81.129	-0.037	3.300	80.685	-2.00	3.419	80.875	159.00	4.499	81.105	21.30	4.686	80.990	-61.95
-4.513	81.151	439.11	-4.499	81.093	21.30	-3.419	80.863	159.00	-3.300	80.673	-2.00	3+17.373			81.079	81.079	0.000	3.300	80.673	-2.00	3.419	80.863	159.00	4.499	81.093	21.30	4.685	80.979	-61.71
-4.558	81.097	21.79	-4.499	81.084	21.30	-3.419	80.854	159.00	-3.300	80.664	-2.00	4+0.000			81.070	81.040	0.030	3.300	80.664	-2.00	3.419	80.854	159.00	4.499	81.084	21.30	4.681	80.973	-60.98
-4.600	81.046	-29.17	-4.499	81.075	21.30	-3.419	80.845	159.00	-3.300	80.655	-2.00	4+2.172	PT	PTV	81.061	81.004	0.057	3.300	80.655	-2.00	3.419	80.845	159.00	4.499	81.075	21.30	4.676	80.970	-59.71
-4.612	80.925	-37.14	-4.499	80.967	21.30	-3.419	80.737	159.00	-3.300	80.547	-2.00	5+0.000			80.953	80.898	0.054	3.300	80.547	-2.00	3.419	80.737	159.00	4.499	80.967	21.30	4.674	80.864	-59.21
-4.621	80.790	-41.53	-4.499	80.840	21.30	-3.419	80.610	159.00	-3.300	80.420	-2.00	6+0.000			80.826	80.780	0.046	3.300	80.420	-2.00	3.419	80.610	159.00	4.499	80.840	21.30	4.656	80.755	-54.51
-4.628	80.681	-44.63	-4.499	80.738	21.30	-3.419	80.508	159.00	-3.300	80.318	-2.00	6+16.031	PC		80.724	80.685	0.039	3.300	80.318	-2.00	3.419	80.508	159.00	4.499	80.738	21.30	4.641	80.668	-49.87
-4.628	80.680	-44.73	-4.499	80.738	21.30	-3.419	80.508	159.00	-3.300	80.318	-2.00	6+16.122			80.724	80.684	0.039	3.300	80.318	-2.00	3.419	80.508	159.00	4.499	80.738	21.30	4.641	80.667	-49.78
-4.628	80.680	-44.83	-4.499	80.737	21.30	-3.419	80.507	159.00	-3.300	80.317	-2.00	6+16.214	PT		80.723	80.684	0.039	3.300	80.317	-2.00	3.419	80.507	159.00	4.499	80.737	21.30	4.641	80.667	-49.70
-4.630	80.654	-45.48	-4.499	80.713	21.30	-3.419	80.483	159.00	-3.300	80.293	-2.00	7+0.000			80.699	80.660	0.039	3.300	80.293	-2.00	3.419	80.483	159.00	4.499	80.713	21.30	4.637	80.646	-48.48
-4.623	80.534	-42.61	-4.499	80.586	21.30	-3.419	80.356	159.00	-3.300	80.166	-2.00	8+0.000			80.572	80.535	0.037	3.300	80.166	-2.00	3.419	80.356	159.00	4.499	80.586	21.30	4.627	80.530	-44.42
-4.613	80.417	-37.29	-4.499	80.460	21.30	-3.419	80.230	159.00	-3.300	80.040	-2.00	9+0.000			80.446	80.414	0.032	3.300	80.040	-2.00	3.419	80.230	159.00	4.499	80.460	21.30	4.621	80.409	-41.79
-4.610	80.365	-35.81	-4.499	80.405	21.30	-3.419	80.175	159.00	-3.300	79.985	-2.00	9+8.642	PC		80.391	80.362	0.029	3.300	79.985	-2.00	3.419	80.175	159.00	4.499	80.405	21.30	4.619	80.356	-40.57
-4.610	80.365	-35.75	-4.499	80.404	21.30	-3.419	80.174	159.00	-3.300	79.984	-2.00	9+8.685			80.390	80.361	0.029	3.300	79.984	-2.00	3.419	80.174	159.00	4.499	80.404	21.30	4.619	80.356	-40.60
-4.610	80.365	-35.70	-4.499	80.404	21.30	-3.419	80.174	159.00	-3.300	79.984	-2.00	9+8.727	PT		80.390	80.361	0.029	3.300	79.984	-2.00	3.419	80.174	159.00	4.499	80.404	21.30	4.619	80.356	-40.63
-4.607	80.297	-33.71	-4.499	80.333	21.30	-3.419	80.103	159.00	-3.300	79.913	-2.00	10+0.000			80.319	80.293	0.026	3.300	79.913	-2.00	3.419	80.103	159.00	4.499	80.333	21.30	4.616	80.287	-38.93
-4.600	80.177	-29.27	-4.499	80.206	21.30	-3.419	79.976	159.00	-3.300	79.786	-2.00	11+0.000			80.192	80.173	0.019	3.300	79.786	-2.00	3.419	79.976	159.00	4.499	80.206	21.30	4.616	80.161	-38.97
-4.594	80.106	-24.70	-4.499	80.129	21.30	-3.419	79.899	159.00	-3.300	79.709	-2.00	11+12.126	PC		80.115	80.102	0.013	3.300	79.709	-2.00	3.419	79.899	159.00	4.499	80.129	21.30	4.619	80.081	-40.51
-4.594	80.105	-24.51	-4.499	80.128	21.30	-3.419	79.898	159.00	-3.300	79.708	-2.00	11+12.229			80.114	80.101	0.013	3.300	79.708	-2.00	3.419	79.898	159.00	4.499	80.128	21.30	4.619	80.080	-40.62
-4.593	80.105	-24.32	-4.499	80.128	21.30	-3.419	79.898	159.00	-3.300	79.708	-2.00	11+12.333	PT		80.114	80.101	0.013	3.300	79.708	-2.00	3.419	79.898	159.00	4.499	80.128	21.30	4.619	80.079	-40.74
-4.589	80.060	-21.01	-4.499	80.079	21.30	-3.419	79.849	159.00	-3.300	79.659	-2.00	12+0.000			80.065	80.056	0.009	3.300	79.659	-2.00	3.419	79.849	159.00	4.499	80.079	21.30	4.621	80.029	-41.56
-4.596	79.927	-26.52	-4.499	79.952	21.30	-3.419	79.722	159.00	-3.300	79.532	-2.00	13+0.000			79.938	79.940	-0.001	3.300	79.532	-2.00	3.419	79.722	159.00	4.499	79.952	21.30	4.625	79.897	-43.59
-4.596	79.800	-26.52	-4.499	79.825	21.30	-3.419	79.595	159.00	-3.300	79.405	-2.00	14+0.000			79.811	79.822	-0.011	3.300	79.405	-2.00	3.419	79.595	159.00	4.499	79.825	21.30	4.625	79.771	-43.59
-4.596	79.797	-26.52	-4.499	79.823	21.30	-3.419	79.593	159.00	-3.300	79.403	-2.00	14+0.464			79.809	79.820	-0.012	3.300	79.403	-2.00	3.419	79.593	159.00	4.499	79.823	21.30	4.625	79.768	-43.59

RUA DRa. LÚCIA INÊS RUA DR LÚCIA INÊS 0+0.000 10+2.163

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
0+0.000			79.696	79.705	-0.010													0.000	0.000	0.00									
-4.577	79.832	-7.96	-4.499	79.839	21.30	-3.419	79.609	159.00	-3.300	79.419	-2.00	1+0.000			79.825	79.827	-0.003	3.300	79.419	-2.00	3.419	79.609	159.00	4.499	79.839	21.30	4.592	79.817	-23.32
-4.581	79.873	-12.79	-4.499	79.883	21.30	-3.419	79.653	159.00	-3.300	79.463	-2.00	1+6.884			79.869	79.870	-0.001	3.300	79.463	-2.00	3.419	79.653	159.00	4.499	79.883	21.30	4.591	79.863	-22.22
-4.589	79.949	-20.73	-4.499	79.967	21.30	-3.419	79.737	159.00	-3.300	79.547	-2.00	2+0.000			79.953	79.951	0.003	3.300	79.547	-2.00	3.419	79.737	159.00	4.499	79.967	21.30	4.588	79.950	-20.02
-4.598	80.029	-27.64	-4.499	80.056	21.30	-3.419	79.826	159.00	-3.300	79.636	-2.00	2+13.767			80.042	80.035	0.007	3.300	79.636	-2.00	3.419	79.826	159.00	4.499	80.056	21.30	4.586	80.041	-17.57
-4.602	80.065	-30.66	-4.499	80.096	21.30	-3.419	79.866	159.00	-3.300	79.676	-2.00	3+0.000			80.082	80.074	0.009	3.300	79.676	-2.00	3.419	79.866	159.00	4.499	80.096	21.30	4.584	80.083	-16.29
-4.612	80.184	-36.98	-4.499	80.225	21.30	-3.419	79.995	159.00	-3.300	79.805	-2.00	4+0.000			80.211	80.196	0.015	3.300	79.805	-2.00	3.419	79.995	159.00	4.499	80.225	21.30	4.587	80.209	-18.97
-4.618	80.279	-39.92	-4.499	80.326	21.30	-3.419	80.096	159.00	-3.300	79.906	-2.00	4+15.668			80.312	80.292	0.020	3.300	79.906	-2.00	3.419	80.096	159.00	4.499	80.326	21.30	4.592	80.304	-23.53
-4.618	80.306	-40.33	-4.499	80.354	21.30	-3.419	80.124	159.00	-3.300	79.934	-2.00	5+0.000			80.340	80.319	0.022	3.300	79.934	-2.00	3.419	80.124	159.00	4.499	80.354	21.30	4.594	80.331	-24.93
-4.625	80.429	-43.22	-4.499	80.483	21.30	-3.419	80.253	159.00	-3.300	80.063	-2.00	6+0.000			80.469	80.442	0.028	3.300	80.063	-2.00	3.419	80.253	159.00	4.499	80.483	21.30	4.600	80.454	-29.20
-4.624	80.559	-42.89	-4.499	80.612	21.30	-3.419	80.382	159.00	-3.300	80.192	-2.00	7+0.000			80.598	80.571	0.027	3.300	80.192	-2.00	3.419	80.382	159.00	4.499	80.612	21.30	4.601	80.582	-29.95
-4.612	80.699	-37.12	-4.499	80.741	21.30	-3.419	80.511	159.00	-3.300	80.321	-2.00	8+0.000			80.727	80.720	0.007	3.300	80.321	-2.00	3.419	80.511	159.00	4.499	80.741	21.30	4.593	80.718	-24.24
-4.601	80.839	-30.05	-4.499	80.870	21.30	-3.419	80.640	159.00	-3.300	80.450	-2.00	9+0.000			80.856	80.896	-0.040	3.300	80.450	-2.00	3.419	80.640	159.00	4.499	80.870	21.30	4.586	80.855	-17.52
-4.601	80.905	-30.05	-4.499	80.935	21.30	-3.419	80.705	159.00	-3.300	80.515	-2.00	9+10.095			80.921	80.966	-0.045	3.300	80.515	-2.00	3.419	80.705	159.00	4.499	80.935	21.30	4.586	80.920	-17.52
-4.601	80.968	-30.05	-4.499	80.999	21.30	-3.419	80.769	159.00	-3.300	80.579	-2.00	10+0.000			80.985	81.017	-0.033	3.300	80.579	-2.00	3.419	80.769	159.00	4.499	80.999	21.30	4.586	80.984	-17.52
-4.601	80.982	-30.05	-4.499	81.013	21.30	-3.419	80.783	159.00	-3.300	80.593	-2.00	10+2.163			80.999	81.002	-0.003	3.300	80.593	-2.00	3.419	80.783	159.00	4.499	81.013	21.30	4.586	80.998	-17.52

RUA DO LOT. SÃO LUIS RUA DO LOTEAMENTO SÃO LUIS 0+0.000 17+12.364

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.636	82.998	150.51	-4.499	82.792	21.30	-3.419	82.562	159.00	-3.300	82.372	-2.00	0+0.000			82.778	82.778	0.000	3.300	82.372	-2.00	3.419	82.562	159.00	4.499	82.792	21.30	4.718	82.645	-67.45
-4.525	83.078	374.28	-4.499	82.984	21.30	-3.419	82.754	159.00	-3.300	82.564	-2.00	1+0.000			82.970	82.989	-0.019	3.300	82.564	-2.00	3.419	82.754	159.00	4.499	82.984	21.30	4.652	82.902	-53.37
-4.539	83.207	79.52	-4.499	83.175	21.30	-3.419	82.945	159.00	-3.300	82.755	-2.00	2+0.000			83.161	83.168	-0.007	3.300	82.755	-2.00	3.419	82.945	159.00	4.499	83.175	21.30	4.631	83.115	-45.85
-4.561	83.376	15.71	-4.499	83.367	21.30	-3.419	83.137	159.00	-3.300	82.947	-2.00	3+0.000			83.353	83.337	0.016	3.300	82.947	-2.00	3.419	83.137	159.00	4.499	83.367	21.30	4.625	83.312	-43.39
-4.566	83.393	7.22	-4.499	83.388	21.30	-3.419	83.158	159.00	-3.300	82.968	-2.00	3+2.272	PC		83.374	83.353	0.021	3.300	82.968	-2.00	3.419	83.158	159.00	4.499	83.388	21.30	4.620	83.339	-41.21
-4.571	83.446	-0.31	-4.499	83.446	21.30	-3.419	83.216	159.00	-3.300	83.026	-2.00	3+9.335			83.432	83.407	0.025	3.300	83.026	-2.00	3.419	83.216	159.00	4.499	83.446	21.30	4.600	83.416	-29.59
-4.557	83.495	24.03	-4.499	83.481	21.30	-3.419	83.251	159.00	-3.300	83.061	-2.00	3+16.398	PT		83.467	83.490	-0.023	3.300	83.061	-2.00	3.419	83.251	159.00	4.499	83.481	21.30	4.561	83.490	14.60
-4.543	83.518	64.52	-4.499	83.490	21.30	-3.419	83.260	159.00	-3.300	83.070	-2.00	4+0.000			83.476	83.533	-0.058	3.300	83.070	-2.00	3.419	83.260	159.00	4.499	83.490	21.30	4.533	83.528	114.92
-4.549	83.515	44.78	-4.499	83.493	21.30	-3.419	83.263	159.00	-3.300	83.073	-2.00	4+2.760	PC		83.479	83.567	-0.088	3.300	83.073	-2.00	3.419	83.263	159.00	4.499	83.493	21.30	4.506	83.557	937.86
-4.565	83.496	8.73	-4.499	83.491	21.30	-3.419	83.261	159.00	-3.300	83.071	-2.00	4+6.992			83.477	83.613	-0.136	3.300	83.071	-2.00	3.419	83.261	159.00	4.499	83.491	21.30	4.532	83.592	310.90
-4.544	83.506	58.38	-4.499	83.480	21.30	-3.419	83.250	159.00	-3.300	83.060	-2.00	4+11.223	PT		83.466	83.524	-0.058	3.300	83.060	-2.00	3.419	83.250	159.00	4.499	83.480	21.30			
-4.587	83.416	-18.87	-4.499	83.433	21.30	-3.419	83.203	159.00	-3.300	83.013	-2.00	5+0.000			83.419	83.426	-0.007	3.300	83.013	-2.00	3.419	83.203	159.00	4.499	83.433	21.30	4.573	83.430	-4.03
-4.579	83.211	-10.37	-4.499	83.219	21.30	-3.419	82.989	159.00	-3.300	82.799	-2.00	6+0.000			83.205	83.202	0.003	3.300	82.799	-2.00	3.419	82.989	159.00	4.499	83.219	21.30	4.626	83.163	-44.00
-4.565	82.990	8.87	-4.499	82.984	21.30	-3.419	82.754	159.00	-3.300	82.564	-2.00	7+0.000			82.970	82.959	0.011	3.300	82.564	-2.00	3.419	82.754	159.00	4.499	82.984	21.30	4.626	82.928	-44.09
-4.565	82.924	7.70	-4.499	82.919	21.30	-3.419	82.689	159.00	-3.300	82.499	-2.00	7+5.554	PC		82.905	82.893	0.012	3.300	82.499	-2.00	3.419	82.689	159.00	4.499	82.919	21.30	4.627	82.862	-44.40
-4.565	82.923	7.61	-4.499	82.918	21.30	-3.419	82.688	159.00	-3.300	82.498	-2.00	7+5.600			82.904	82.893	0.012	3.300	82.498	-2.00	3.419	82.688	159.00	4.499	82.918	21.30	4.627	82.862	-44.38
-4.566	82.923	7.52	-4.499	82.918	21.30	-3.419	82.688	159.00	-3.300	82.498	-2.00	7+5.647	PT		82.904	82.892	0.012	3.300	82.498	-2.00	3.419	82.688	159.00	4.499	82.918	21.30	4.627	82.861	-44.36
-4.568	82.752	4.34	-4.499	82.749	21.30	-3.419	82.519	159.00	-3.300	82.329	-2.00	8+0.000			82.735	82.722	0.014	3.300	82.329	-2.00	3.419	82.519	159.00	4.499	82.749	21.30	4.629	82.691	-45.24
-4.565	82.520	8.33	-4.499	82.515	21.30	-3.419	82.285	159.00	-3.300	82.095	-2.00	9+0.000			82.501	82.489	0.011	3.300	82.095	-2.00	3.419	82.285	159.00	4.499	82.515	21.30	4.627	82.458	-44.43
-4.565	82.314	8.33	-4.499	82.308	21.30	-3.419	82.078	159.00	-3.300	81.888	-2.00	10+0.000			82.294	82.260	0.034	3.300	81.888	-2.00	3.419	82.078	159.00	4.499	82.308	21.30	4.627	82.252	-44.43
-4.565	82.261	8.33	-4.499	82.256	21.30	-3.419	82.026	159.00	-3.300	81.836	-2.00	10+6.456	PC		82.242	82.263	-0.021	3.300	81.836	-2.00	3.419	82.026	159.00	4.499	82.256	21.30	4.627	82.199	-44.43
-4.565	82.260	8.33	-4.499	82.255	21.30	-3.419	82.025	159.00	-3.300	81.835	-2.00	10+6.534			82.241	82.263	-0.022	3.300	81.835	-2.00	3.419	82.025	159.00	4.499	82.255	21.30	4.627	82.198	-44.43
-4.565	82.260	8.33	-4.499	82.254	21.30	-3.419	82.024	159.00	-3.300	81.834	-2.00	10+6.611	PT		82.240	82.264	-0.024	3.300	81.834	-2.00	3.419	82.024	159.00	4.499	82.254	21.30	4.627	82.198	-44.43
-4.565	82.172	8.33	-4.499	82.167	21.30	-3.419	81.937	159.00	-3.300	81.747	-2.00	11+0.000			82.153	82.133	0.020	3.300	81.747	-2.00	3.419	81.937	159.00	4.499	82.167	21.30	4.627	82.110	-44.43
-4.537	82.123	89.74	-4.499	82.090	21.30	-3.419	81.860	159.00	-3.300	81.670	-2.00	12+0.000			82.076	82.098	-0.023	3.300	81.670	-2.00	3.419	81.860	159.00	4.499	82.090	21.30	4.587	82.073	-18.88
-4.530	82.081	135.54	-4.499	82.040	21.30	-3.419	81.810	159.00	-3.300	81.620	-2.00	13+0.000			82.026	82.054	-0.028	3.300	81.620	-2.00	3.419	81.810	159.00	4.499	82.040	21.30	4.584	82.026	-15.77
-4.544	82.016	57.99	-4.499	81.990	21.30	-3.419	81.760	159.00	-3.300	81.570	-2.00	14+0.000			81.976	81.989	-0.013	3.300	81.570	-2.00	3.419	81.760	159.00	4.499	81.990	21.30	4.599	81.962	-28.48
-4.546	82.008	52.16	-4.499	81.984	21.30	-3.419	81.754	159.00	-3.300	81.564	-2.00	14+2.329	PC		81.970	81.981	-0.011	3.300	81.564	-2.00	3.419	81.754	159.00	4.499	81.984	21.30	4.601	81.954	-29.71
-4.546	82.008	52.12	-4.499	81.984	21.30	-3.419	81.754	159.00	-3.300	81.564	-2.00	14+2.360			81.970	81.981	-0.011	3.300	81.564	-2.00	3.419	81.754	159.00	4.499	81.984	21.30	4.601	81.954	-29.73
-4.546	82.008	52.07	-4.499	81.984	21.30	-3.419	81.754	159.00	-3.300	81.564	-2.00	14+2.391	PT		81.970	81.981	-0.011	3.300	81.564	-2.00	3.419	81.754	159.00	4.499	81.984	21.30	4.601	81.954	-29.76
-4.554	81.956	29.95	-4.499	81.940	21.30	-3.419	81.710	159.00	-3.300	81.520	-2.00	15+0.000			81.926	81.924	0.002	3.300	81.520	-2.00	3.419	81.710	159.00	4.499	81.940	21.30	4.614	81.897	-37.79
-4.537	81.924	90.07	-4.499	81.890	21.30	-3.419	81.660	159.00	-3.300	81.470	-2.00	16+0.000			81.876	81.870	0.007	3.300	81.470	-2.00	3.419	81.660	159.00	4.499	81.890	21.30	4.630	81.831	-45.51
-4.515	81.896	356.59	-4.499	81.840	21.30	-3.419	81.610	159.00	-3.300	81.420	-2.00	17+0.000			81.826	81.818	0.008	3.300	81.420	-2.00	3.419	81.610	159.00	4.499	81.840	21.30	4.646	81.765	-51.57
			-4.499	81.810	21.30	-3.419	81.580	159.00	-3.300	81.390	-2.00	17+12.364			81.796	81.796	0.000	3.300	81.390	-2.00	3.419	81.580	159.00	4.499	81.810	21.30	4.656	81.724	-54.69

TV. DO LOT. SÃO LUIS TV DO LOTEAMENTO SÃO LUIS 0+0.000 2+4.271

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
0+0.000		PCV	82.240	82.264	-0.024													0.000	0.000	0.00									
-4.529	82.390	144.43	-4.499	82.348	21.30	-3.419	82.118	159.00	-3.300	81.928	-2.00	1+0.000			82.334	82.347	-0.012	3.300	81.928	-2.00	3.419	82.118	159.00	4.499	82.348	21.30	4.594	82.325	-24.56
-4.532	82.424	118.92	-4.499	82.386	21.30	-3.419	82.156	159.00	-3.300	81.966	-2.00	1+4.912	PC		82.372	82.384	-0.013	3.300	81.966	-2.00	3.419	82.156	159.00	4.499	82.386	21.30	4.589	82.367	-21.09
-4.532	82.424	118.70	-4.499	82.386	21.30	-3.419	82.156	159.00	-3.300	81.966	-2.00	1+4.931			82.372	82.384	-0.013	3.300	81.966	-2.00	3.419	82.156	159.00	4.499	82.386	21.30	4.589	82.367	-21.09
-4.532	82.424	118.48	-4.499	82.386	21.30	-3.419	82.156	159.00	-3.300	81.966	-2.00	1+4.951	PT	PTV	82.372	82.385	-0.013	3.300	81.966	-2.00	3.419	82.156	159.00	4.499	82.386	21.30	4.589	82.367	-21.09
-4.599	82.513	-28.73	-4.499	82.541	21.30	-3.419	82.311	159.00	-3.300	82.121	-2.00	2+0.000			82.527	82.529	-0.002	3.300	82.121	-2.00	3.419	82.311	159.00	4.499	82.541	21.30	4.616	82.496	-38.92
-4.624	82.535	-42.79	-4.499	82.589	21.30	-3.419	82.359	159.00	-3.300	82.169	-2.00	2+4.271			82.575	82.575	0.000	3.300	82.169	-2.00	3.419	82.359	159.00	4.499	82.589	21.30	4.626	82.533	-43.78

RUA C (LOT. SÃO LUIS) RUA C (LOT. SÃO LUIS) 0+0.000 12+16.759

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub			Afast. (m)	Cota (m)	Incl. (%)	EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)				Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.525	84.469	374.72	-4.499	84.375	21.30	-3.419	84.145	159.00	-3.300	83.955	-2.00	0+0.000			84.361	84.361	0.000	3.300	83.955	-2.00	3.419	84.145	159.00	4.499	84.375	21.30	4.710	84.235	-66.34
-4.529	84.445	330.95	-4.499	84.346	21.30	-3.419	84.116	159.00	-3.300	83.926	-2.00	0+3.930	PC		84.332	84.335	-0.003	3.300	83.926	-2.00	3.419	84.116	159.00	4.499	84.346	21.30	4.650	84.267	-52.78
-4.529	84.425	335.31	-4.499	84.327	21.30	-3.419	84.097	159.00	-3.300	83.907	-2.00	0+6.547			84.313	84.323	-0.010	3.300	83.907	-2.00	3.419	84.097	159.00	4.499	84.327	21.30	4.638	84.260	-48.68
-4.524	84.401	379.54	-4.499	84.308	21.30	-3.419	84.078	159.00	-3.300	83.888	-2.00	0+9.165	PT		84.294	84.311	-0.017	3.300	83.888	-2.00	3.419	84.078	159.00	4.499	84.308	21.30	4.627	84.251	-44.43
-4.534	84.332	299.63	-4.499	84.228	21.30	-3.419	83.998	159.00	-3.300	83.808	-2.00	1+0.000			84.214	84.265	-0.050	3.300	83.808	-2.00	3.419	83.998	159.00	4.499	84.228	21.30	4.592	84.207	-22.99
-4.562	84.274	209.95	-4.499	84.142	21.30	-3.419	83.912	159.00	-3.300	83.722	-2.00	1+11.743	PC		84.128	84.217	-0.088	3.300	83.722	-2.00	3.419	83.912	159.00	4.499	84.142	21.30	4.553	84.160	32.34
-4.562	84.274	209.54	-4.499	84.142	21.30	-3.419	83.912	159.00	-3.300	83.722	-2.00	1+11.807			84.128	84.217	-0.089	3.300	83.722	-2.00	3.419	83.912	159.00	4.499	84.142	21.30	4.553	84.159	32.79
-4.563	84.274	209.13	-4.499	84.141	21.30	-3.419	83.911	159.00	-3.300	83.721	-2.00	1+11.870	PT		84.127	84.216	-0.089	3.300	83.721	-2.00	3.419	83.911	159.00	4.499	84.141	21.30	4.553	84.159	33.25
-4.574	84.225	192.78	-4.499	84.082	21.30	-3.419	83.852	159.00	-3.300	83.662	-2.00	2+0.000			84.068	84.169	-0.101	3.300	83.662	-2.00	3.419	83.852	159.00	4.499	84.082	21.30	4.539	84.113	79.26
-4.579	84.097	187.11	-4.499	83.949	21.30	-3.419	83.719	159.00	-3.300	83.529	-2.00	2+18.148	PC		83.935	84.016	-0.082	3.300	83.529	-2.00	3.419	83.719	159.00	4.499	83.949	21.30	4.578	83.941	-9.77
-4.579	84.097	187.01	-4.499	83.948	21.30	-3.419	83.718	159.00	-3.300	83.528	-2.00	2+18.210			83.934	84.016	-0.082	3.300	83.528	-2.00	3.419	83.718	159.00	4.499	83.948	21.30	4.578	83.940	-10.00
-4.579	84.096	186.91	-4.499	83.948	21.30	-3.419	83.718	159.00	-3.300	83.528	-2.00	2+18.273	PT		83.934	84.016	-0.082	3.300	83.528	-2.00	3.419	83.718	159.00	4.499	83.948	21.30	4.579	83.940	-10.22
-4.580	84.085	185.29	-4.499	83.935	21.30	-3.419	83.705	159.00	-3.300	83.515	-2.00	3+0.000			83.921	84.004	-0.083	3.300	83.515	-2.00	3.419	83.705	159.00	4.499	83.935	21.30	4.582	83.924	-13.95
-4.587	83.945	178.74	-4.499	83.789	21.30	-3.419	83.559	159.00	-3.300	83.369	-2.00	4+0.000			83.775	83.865	-0.091	3.300	83.369	-2.00	3.419	83.559	159.00	4.499	83.789	21.30	4.574	83.786	-4.27
-4.584	83.880	181.80	-4.499	83.726	21.30	-3.419	83.496	159.00	-3.300	83.306	-2.00	4+8.490	PC		83.712	83.802	-0.089	3.300	83.306	-2.00	3.419	83.496	159.00	4.499	83.726	21.30	4.573	83.724	-3.88
-4.584	83.879	181.91	-4.499	83.725	21.30	-3.419	83.495	159.00	-3.300	83.305	-2.00	4+8.642			83.711	83.801	-0.089	3.300	83.305	-2.00	3.419	83.495	159.00	4.499	83.725	21.30	4.573	83.723	-3.72
-4.584	83.877	182.03	-4.499	83.724	21.30	-3.419	83.494	159.00	-3.300	83.304	-2.00	4+8.794	PT		83.710	83.799	-0.089	3.300	83.304	-2.00	3.419	83.494	159.00	4.499	83.724	21.30	4.573	83.722	-3.58
-4.583	83.794	182.86	-4.499	83.642	21.30	-3.419	83.412	159.00	-3.300	83.222	-2.00	5+0.000			83.628	83.716	-0.088	3.300	83.222	-2.00	3.419	83.412	159.00	4.499	83.642	21.30	4.574	83.639	-4.67
-4.581	83.651	184.34	-4.499	83.500	21.30	-3.419	83.270	159.00	-3.300	83.080	-2.00	5+19.389	PC		83.486	83.573	-0.087	3.300	83.080	-2.00	3.419	83.270	159.00	4.499	83.500	21.30	4.575	83.495	-6.50
-4.581	83.651	184.32	-4.499	83.500	21.30	-3.419	83.270	159.00	-3.300	83.080	-2.00	5+19.417			83.486	83.573	-0.087	3.300	83.080	-2.00	3.419	83.270	159.00	4.499	83.500	21.30	4.575	83.495	-6.53
-4.581	83.650	184.30	-4.499	83.500	21.30	-3.419	83.270	159.00	-3.300	83.080	-2.00	5+19.444	PT		83.486	83.573	-0.087	3.300	83.080	-2.00	3.419	83.270	159.00	4.499	83.500	21.30	4.575	83.495	-6.56
-4.581	83.646	184.33	-4.499	83.496	21.30	-3.419	83.266	159.00	-3.300	83.076	-2.00	6+0.000			83.482	83.568	-0.087	3.300	83.076	-2.00	3.419	83.266	159.00	4.499	83.496	21.30	4.576	83.491	-6.60
-4.535	83.453	296.11	-4.499	83.349	21.30	-3.419	83.119	159.00	-3.300	82.929	-2.00	7+0.000			83.335	83.384	-0.049	3.300	82.929	-2.00	3.419	83.119	159.00	4.499	83.349	21.30	4.603	83.317	-31.35
			-4.499	83.246	21.30	-3.419	83.016	159.00	-3.300	82.826	-2.00	7+14.037	PC		83.232	83.253	-0.021	3.300	82.826	-2.00	3.419	83.016	159.00	4.499	83.246	21.30	4.630	83.187	-45.59
			-4.499	83.245	21.30	-3.419	83.015	159.00	-3.300	82.825	-2.00	7+14.204			83.231	83.251	-0.020	3.300	82.825	-2.00	3.419	83.015	159.00	4.499	83.245	21.30	4.630	83.185	-45.78
			-4.499	83.244	21.30	-3.419	83.014	159.00	-3.300	82.824	-2.00	7+14.371	PT		83.230	83.250	-0.020	3.300	82.824	-2.00	3.419	83.014	159.00	4.499	83.244	21.30	4.631	83.183	-45.98
			-4.499	83.202	21.30	-3.419	82.972	159.00	-3.300	82.782	-2.00	8+0.000			83.188	83.206	-0.018	3.300	82.782	-2.00	3.419	82.972	159.00	4.499	83.202	21.30	4.638	83.135	-48.67
			-4.499	83.056	21.30	-3.419	82.826	159.00	-3.300	82.636	-2.00	9+0.000		PCV	83.042	83.040	0.002	3.300	82.636	-2.00	3.419	82.826	159.00	4.499	83.056	21.30	4.638	82.989	-48.67
			-4.499	83.035	21.30	-3.419	82.805	159.00	-3.300	82.615	-2.00	9+2.916	PC		83.021	82.960	0.061	3.300	82.615	-2.00	3.419	82.805	159.00	4.499	83.035	21.30	4.638	82.967	-48.67
			-4.499	83.034	21.30	-3.419	82.804	159.00	-3.300	82.614	-2.00	9+2.971			83.020	82.958	0.062	3.300	82.614	-2.00	3.419	82.804	159.00	4.499	83.034	21.30	4.638	82.967	-48.67
			-4.499	83.034	21.30	-3.419	82.804	159.00	-3.300	82.614	-2.00	9+3.026	PT		83.020	82.957	0.063	3.300	82.614	-2.00	3.419	82.804	159.00	4.499	83.034	21.30	4.638	82.966	-48.67
-4.697	82.830	-63.99	-4.499	82.956	21.30	-3.419	82.726	159.00	-3.300	82.536	-2.00	10+0.000		PTV	82.942	82.778	0.164	3.300	82.536	-2.00	3.419	82.726	159.00	4.499	82.956	21.30			

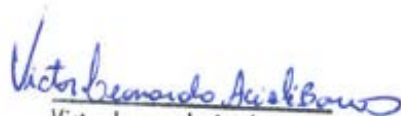


RUA D (LOT. SÃO LUIS) RUA D (LOT. SÃO LUIS) 0+0.000 11+8.500

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.521	85.373	426.01	-4.499	85.283	21.30	-3.419	85.053	159.00	-3.300	84.863	-2.00	0+0.000			85.269	85.269	0.000	3.300	84.863	-2.00	3.419	85.053	159.00	4.499	85.283	21.30	4.676	85.177	-59.76
-4.509	85.214	844.67	-4.499	85.136	21.30	-3.419	84.906	159.00	-3.300	84.716	-2.00	1+0.000			85.122	85.114	0.009	3.300	84.716	-2.00	3.419	84.906	159.00	4.499	85.136	21.30	4.675	85.031	-59.64
			-4.499	84.990	21.30	-3.419	84.760	159.00	-3.300	84.570	-2.00	2+0.000		PCV	84.976	84.958	0.017	3.300	84.570	-2.00	3.419	84.760	159.00	4.499	84.990	21.30	4.702	84.858	-64.97
			-4.499	84.859	21.30	-3.419	84.629	159.00	-3.300	84.439	-2.00	2+17.823	PC		84.845	84.820	0.024	3.300	84.439	-2.00	3.419	84.629	159.00	4.499	84.859	21.30	4.711	84.719	-66.41
			-4.499	84.859	21.30	-3.419	84.629	159.00	-3.300	84.439	-2.00	2+17.868			84.845	84.820	0.024	3.300	84.439	-2.00	3.419	84.629	159.00	4.499	84.859	21.30	4.711	84.718	-66.42
			-4.499	84.858	21.30	-3.419	84.628	159.00	-3.300	84.438	-2.00	2+17.914	PT		84.844	84.820	0.024	3.300	84.438	-2.00	3.419	84.628	159.00	4.499	84.858	21.30	4.711	84.718	-66.42
			-4.499	84.843	21.30	-3.419	84.613	159.00	-3.300	84.423	-2.00	3+0.000			84.829	84.803	0.025	3.300	84.423	-2.00	3.419	84.613	159.00	4.499	84.843	21.30	4.711	84.702	-66.48
			-4.499	84.686	21.30	-3.419	84.456	159.00	-3.300	84.266	-2.00	4+0.000			84.672	84.645	0.028	3.300	84.266	-2.00	3.419	84.456	159.00	4.499	84.686	21.30	4.711	84.546	-66.40
			-4.499	84.518	21.30	-3.419	84.288	159.00	-3.300	84.098	-2.00	5+0.000			84.504	84.486	0.018	3.300	84.098	-2.00	3.419	84.288	159.00	4.499	84.518	21.30	4.701	84.388	-64.70
			-4.499	84.337	21.30	-3.419	84.107	159.00	-3.300	83.917	-2.00	6+0.000			84.323	84.302	0.021	3.300	83.917	-2.00	3.419	84.107	159.00	4.499	84.337	21.30	4.703	84.205	-65.10
			-4.499	84.329	21.30	-3.419	84.099	159.00	-3.300	83.909	-2.00	6+0.919	PC		84.315	84.291	0.024	3.300	83.909	-2.00	3.419	84.099	159.00	4.499	84.329	21.30	4.702	84.198	-64.88
			-4.499	84.307	21.30	-3.419	84.077	159.00	-3.300	83.887	-2.00	6+3.192			84.293	84.270	0.023	3.300	83.887	-2.00	3.419	84.077	159.00	4.499	84.307	21.30	4.698	84.180	-64.18
			-4.499	84.286	21.30	-3.419	84.056	159.00	-3.300	83.866	-2.00	6+5.464	PT		84.272	84.224	0.048	3.300	83.866	-2.00	3.419	84.056	159.00	4.499	84.286	21.30	4.693	84.163	-63.39
			-4.499	84.144	21.30	-3.419	83.914	159.00	-3.300	83.724	-2.00	7+0.000			84.130	84.136	-0.006	3.300	83.724	-2.00	3.419	83.914	159.00	4.499	84.144	21.30	4.688	84.027	-62.34
			-4.499	83.939	21.30	-3.419	83.709	159.00	-3.300	83.519	-2.00	8+0.000			83.925	83.925	0.000	3.300	83.519	-2.00	3.419	83.709	159.00	4.499	83.939	21.30	4.671	83.839	-58.61
			-4.499	83.722	21.30	-3.419	83.492	159.00	-3.300	83.302	-2.00	9+0.000			83.708	83.712	-0.005	3.300	83.302	-2.00	3.419	83.492	159.00	4.499	83.722	21.30	4.671	83.621	-58.56
			-4.499	83.492	21.30	-3.419	83.262	159.00	-3.300	83.072	-2.00	10+0.000			83.478	83.486	-0.008	3.300	83.072	-2.00	3.419	83.262	159.00	4.499	83.492	21.30	4.671	83.392	-58.56
			-4.499	83.485	21.30	-3.419	83.255	159.00	-3.300	83.065	-2.00	10+0.602	PC		83.471	83.479	-0.008	3.300	83.065	-2.00	3.419	83.255	159.00	4.499	83.485	21.30	4.671	83.384	-58.56
			-4.499	83.478	21.30	-3.419	83.248	159.00	-3.300	83.058	-2.00	10+1.201			83.464	83.472	-0.008	3.300	83.058	-2.00	3.419	83.248	159.00	4.499	83.478	21.30	4.671	83.377	-58.56
			-4.499	83.471	21.30	-3.419	83.241	159.00	-3.300	83.051	-2.00	10+1.799	PT	PTV	83.457	83.464	-0.008	3.300	83.051	-2.00	3.419	83.241	159.00	4.499	83.471	21.30	4.671	83.370	-58.56
			-4.499	83.299	21.30	-3.419	83.069	159.00	-3.300	82.879	-2.00	10+16.095	PC		83.285	83.298	-0.013	3.300	82.879	-2.00	3.419	83.069	159.00	4.499	83.299	21.30	4.671	83.199	-58.56
			-4.499	83.286	21.30	-3.419	83.056	159.00	-3.300	82.866	-2.00	10+17.211			83.272	83.285	-0.013	3.300	82.866	-2.00	3.419	83.056	159.00	4.499	83.286	21.30	4.671	83.185	-58.56
			-4.499	83.272	21.30	-3.419	83.042	159.00	-3.300	82.852	-2.00	10+18.327	PT		83.258	83.272	-0.014	3.300	82.852	-2.00	3.419	83.042	159.00	4.499	83.272	21.30	4.671	83.172	-58.56
			-4.499	83.252	21.30	-3.419	83.022	159.00	-3.300	82.832	-2.00	11+0.000			83.238	83.252	-0.014	3.300	82.832	-2.00	3.419	83.022	159.00	4.499	83.252	21.30	4.671	83.152	-58.56
-4.540	83.259	272.34	-4.499	83.150	21.30	-3.419	82.920	159.00	-3.300	82.730	-2.00	11+8.500			83.136	83.136	0.000	3.300	82.730	-2.00	3.419	82.920	159.00	4.499	83.150	21.30	4.719	83.001	-67.66

RUA J (LOT. SÃO LUIS) RUA J (LOT. SÃO LUIS) 0+0.000 2+3.899

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub			ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub						EPS_Sub			Daylight					
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.550	82.817	39.59	-4.499	82.796	21.30	-3.419	82.566	159.00	-3.300	82.376	-2.00	0+0.000			82.782	82.782	0.000	3.300	82.376	-2.00	3.419	82.566	159.00	4.499	82.796	21.30	4.619	82.748	-40.66
-4.550	83.053	39.59	-4.499	83.033	21.30	-3.419	82.803	159.00	-3.300	82.613	-2.00	0+8.782			83.019	82.952	0.066	3.300	82.613	-2.00	3.419	82.803	159.00	4.499	83.033	21.30	4.619	82.984	-40.66
-4.550	83.069	39.59	-4.499	83.049	21.30	-3.419	82.819	159.00	-3.300	82.629	-2.00	0+13.889			83.035	83.128	-0.094	3.300	82.629	-2.00	3.419	82.819	159.00	4.499	83.049	21.30	4.619	83.000	-40.66
-4.550	83.088	39.59	-4.499	83.068	21.30	-3.419	82.838	159.00	-3.300	82.648	-2.00	1+0.000		PTV	83.054	82.967	0.087	3.300	82.648	-2.00	3.419	82.838	159.00	4.499	83.068	21.30	4.619	83.019	-40.66
-4.550	83.406	39.59	-4.499	83.385	21.30	-3.419	83.155	159.00	-3.300	82.965	-2.00	2+0.000			83.371	83.387	-0.016	3.300	82.965	-2.00	3.419	83.155	159.00	4.499	83.385	21.30	4.619	83.337	-40.66
-4.550	83.406	39.59	-4.499	83.385	21.30	-3.419	83.155	159.00	-3.300	82.965	-2.00	2+3.899			83.371	83.466	-0.094	3.300	82.965	-2.00	3.419	83.155	159.00	4.499	83.385	21.30	4.619	83.337	-40.66

  
Victor Leonardo Acioli Barros  
Engenheiro Civil  
CREA Reg. Nac. Nº 0210384751



RUA JAQUELINE SEVERO RUA JAQUELINE SEVERO 0+0.000 25+8.301

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub			Afast. (m)	Cota (m)	Incl. (%)	EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)				Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-5.137	93.783	-48.23	-4.999	93.849	21.30	-3.919	93.619	159.00	-3.800	93.429	-2.00	0+0.000			93.845	93.845	0.000	3.800	93.429	-2.00	3.919	93.619	159.00	4.999	93.849	21.30	5.097	93.823	-27.07
-5.077	93.812	-7.93	-4.999	93.819	21.30	-3.919	93.589	159.00	-3.800	93.399	-2.00	0+3.492	PC		93.815	93.815	0.000	3.800	93.399	-2.00	3.919	93.589	159.00	4.999	93.819	21.30	5.060	93.829	17.28
-5.035	93.843	101.81	-4.999	93.808	21.30	-3.919	93.578	159.00	-3.800	93.388	-2.00	0+5.819			93.804	93.804	0.000	3.800	93.388	-2.00	3.919	93.578	159.00	4.999	93.808	21.30	5.045	93.833	54.78
-5.027	93.884	156.10	-4.999	93.841	21.30	-3.919	93.611	159.00	-3.800	93.421	-2.00	0+8.146	PT		93.837	93.837	0.000	3.800	93.421	-2.00	3.919	93.611	159.00	4.999	93.841	21.30	5.075	93.837	-5.34
-5.024	93.977	192.69	-4.999	93.931	21.30	-3.919	93.701	159.00	-3.800	93.511	-2.00	0+18.762	PC		93.927	93.927	0.000	3.800	93.511	-2.00	3.919	93.701	159.00	4.999	93.931	21.30	5.089	93.912	-20.40
-5.024	93.981	195.08	-4.999	93.934	21.30	-3.919	93.704	159.00	-3.800	93.514	-2.00	0+19.328			93.930	93.930	0.000	3.800	93.514	-2.00	3.919	93.704	159.00	4.999	93.934	21.30	5.088	93.916	-19.75
-5.023	93.984	197.01	-4.999	93.937	21.30	-3.919	93.707	159.00	-3.800	93.517	-2.00	0+19.894	PT		93.933	93.933	0.000	3.800	93.517	-2.00	3.919	93.707	159.00	4.999	93.937	21.30	5.087	93.920	-19.18
-5.023	93.984	197.01	-4.999	93.937	21.30	-3.919	93.707	159.00	-3.800	93.517	-2.00	1+0.000			93.933	93.933	0.000	3.800	93.517	-2.00	3.919	93.707	159.00	4.999	93.937	21.30	5.087	93.921	-19.03
-5.029	94.125	141.84	-4.999	94.084	21.30	-3.919	93.854	159.00	-3.800	93.664	-2.00	1+19.331	PC		94.080	94.080	0.000	3.800	93.664	-2.00	3.919	93.854	159.00	4.999	94.084	21.30	5.143	94.011	-50.50
-5.029	94.131	144.34	-4.999	94.089	21.30	-3.919	93.859	159.00	-3.800	93.669	-2.00	2+0.000			94.085	94.085	0.000	3.800	93.669	-2.00	3.919	93.859	159.00	4.999	94.089	21.30	5.143	94.016	-50.57
-5.028	94.140	147.52	-4.999	94.097	21.30	-3.919	93.867	159.00	-3.800	93.677	-2.00	2+1.103			94.093	94.093	0.000	3.800	93.677	-2.00	3.919	93.867	159.00	4.999	94.097	21.30	5.144	94.024	-50.77
-5.028	94.154	152.97	-4.999	94.111	21.30	-3.919	93.881	159.00	-3.800	93.691	-2.00	2+2.875	PT		94.107	94.107	0.000	3.800	93.691	-2.00	3.919	93.881	159.00	4.999	94.111	21.30	5.145	94.036	-51.20
									-3.800	93.820	-2.00	3+0.000			94.236	94.236	0.000	3.800	93.820	-2.00	3.919	94.010	159.00	4.999	94.240	21.30			
									-3.800	93.865	-2.00	3+5.435	PC		94.281	94.281	0.000	3.800	93.865	-2.00	3.919	94.055	159.00	4.999	94.285	21.30			
									-3.800	93.872	-2.00	3+6.270			94.288	94.287	0.000	3.800	93.872	-2.00	3.919	94.062	159.00	4.999	94.292	21.30			
									-3.800	93.882	-2.00	3+7.105	PT		94.298	94.298	0.000	3.800	93.882	-2.00	3.919	94.072	159.00	4.999	94.302	21.30			
									-3.800	93.944	-2.00	3+12.612	PC		94.360	94.360	0.000	3.800	93.944	-2.00	3.919	94.134	159.00	4.999	94.364	21.30			
									-3.800	94.005	-2.00	3+16.276			94.421	94.421	0.000	3.800	94.005	-2.00	3.919	94.195	159.00	4.999	94.425	21.30			
-5.045	94.445	55.29	-4.999	94.419	21.30	-3.919	94.189	159.00	-3.800	93.999	-2.00	3+19.940	PT		94.415	94.415	0.000	3.800	93.999	-2.00	3.919	94.189	159.00	4.999	94.419	21.30	5.245	94.244	-71.13
-5.045	94.444	55.29	-4.999	94.419	21.30	-3.919	94.189	159.00	-3.800	93.999	-2.00	4+0.000			94.415	94.415	0.000	3.800	93.999	-2.00	3.919	94.189	159.00	4.999	94.419	21.30	5.245	94.244	-71.12
			-4.999	94.266	21.30	-3.919	94.036	159.00	-3.800	93.846	-2.00	5+0.000			94.262	94.262	0.000	3.800	93.846	-2.00	3.919	94.036	159.00	4.999	94.266	21.30	5.158	94.179	-55.10
-5.006	94.279	1,067.51	-4.999	94.214	21.30	-3.919	93.984	159.00	-3.800	93.794	-2.00	5+12.857	PC		94.210	94.210	0.000	3.800	93.794	-2.00	3.919	93.984	159.00	4.999	94.214	21.30	5.153	94.132	-53.60
-5.006	94.275	1,052.78	-4.999	94.210	21.30	-3.919	93.980	159.00	-3.800	93.790	-2.00	5+13.916			94.206	94.206	0.000	3.800	93.790	-2.00	3.919	93.980	159.00	4.999	94.210	21.30	5.153	94.128	-53.73
-5.006	94.271	1,019.60	-4.999	94.207	21.30	-3.919	93.977	159.00	-3.800	93.787	-2.00	5+14.976	PT		94.203	94.203	0.000	3.800	93.787	-2.00	3.919	93.977	159.00	4.999	94.207	21.30	5.153	94.124	-53.85
-5.009	94.251	648.61	-4.999	94.190	21.30	-3.919	93.960	159.00	-3.800	93.770	-2.00	6+0.000			94.186	94.186	0.000	3.800	93.770	-2.00	3.919	93.960	159.00	4.999	94.190	21.30	5.153	94.107	-53.85
-5.016	94.172	339.46	-4.999	94.117	21.30	-3.919	93.887	159.00	-3.800	93.697	-2.00	7+0.000			94.113	94.113	0.000	3.800	93.697	-2.00	3.919	93.887	159.00	4.999	94.117	21.30	5.149	94.039	-52.37
-5.025	94.118	174.62	-4.999	94.072	21.30	-3.919	93.842	159.00	-3.800	93.652	-2.00	8+0.000			94.068	94.068	0.000	3.800	93.652	-2.00	3.919	93.842	159.00	4.999	94.072	21.30	5.124	94.019	-43.06
-5.025	94.095	174.62	-4.999	94.050	21.30	-3.919	93.820	159.00	-3.800	93.630	-2.00	9+0.000			94.046	94.046	0.000	3.800	93.630	-2.00	3.919	93.820	159.00	4.999	94.050	21.30	5.125	93.996	-43.25
-5.027	94.046	158.19	-4.999	94.002	21.30	-3.919	93.772	159.00	-3.800	93.582	-2.00	10+0.000			93.998	93.998	0.000	3.800	93.582	-2.00	3.919	93.772	159.00	4.999	94.002	21.30	5.123	93.950	-42.47
-5.027	93.986	158.19	-4.999	93.942	21.30	-3																							

RUA EVERTON ESTEVES RUA EVERTON ESTEVES 0+0.000 24+17.835

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	ETW_Sub			Afast. (m)	Cota (m)	Incl. (%)	EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)				Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
			-4.999	94.518	21.30	-3.919	94.288	159.00	-3.800	94.098	-2.00	0+0.000			94.514	94.514	0.000	3.800	94.098	-2.00	3.919	94.288	159.00	4.999	94.518	21.30	5.136	94.452	-48.16
-5.014	94.725	570.39	-4.999	94.641	21.30	-3.919	94.411	159.00	-3.800	94.221	-2.00	1+0.000			94.637	94.663	-0.026	3.800	94.221	-2.00	3.919	94.411	159.00	4.999	94.641	21.30	5.107	94.604	-34.21
-5.020	94.751	438.05	-4.999	94.662	21.30	-3.919	94.432	159.00	-3.800	94.242	-2.00	1+3.366	PC		94.658	94.689	-0.031	3.800	94.242	-2.00	3.919	94.432	159.00	4.999	94.662	21.30	5.103	94.629	-31.54
									-3.800	94.278	-2.00	1+9.243			94.694	94.730	-0.036	3.800	94.278	-2.00	3.919	94.468	159.00	4.999	94.698	21.30			
									-3.800	94.315	-2.00	1+15.120	PT	PCV	94.731	94.768	-0.038	3.800	94.315	-2.00	3.919	94.505	159.00	4.999	94.735	21.30			
									-3.800	94.343	-2.00	2+0.000			94.759	94.791	-0.031	3.800	94.343	-2.00	3.919	94.533	159.00	4.999	94.763	21.30			
									-3.800	94.346	-2.00	2+0.416	PC		94.762	94.793	-0.031	3.800	94.346	-2.00	3.919	94.536	159.00	4.999	94.766	21.30			
									-3.800	94.364	-2.00	2+3.937			94.780	94.807	-0.026	3.800	94.364	-2.00	3.919	94.554	159.00	4.999	94.784	21.30			
									-3.800	94.382	-2.00	2+7.459	PT		94.798	94.816	-0.019	3.800	94.382	-2.00									
									-3.800	94.419	-2.00	2+16.659	PC		94.835	94.834	0.001	3.800	94.419	-2.00									
									-3.800	94.419	-2.00	2+16.703			94.835	94.835	0.001	3.800	94.419	-2.00									
									-3.800	94.419	-2.00	2+16.747	PT		94.835	94.835	0.001	3.800	94.419	-2.00									
									-3.800	94.430	-2.00	3+0.000			94.846	94.842	0.004	3.800	94.430	-2.00									
			-4.999	94.869	21.30	-3.919	94.639	159.00	-3.800	94.449	-2.00	3+7.441	PC		94.865	94.891	-0.026	3.800	94.449	-2.00									
			-4.999	94.873	21.30	-3.919	94.643	159.00	-3.800	94.453	-2.00	3+9.384			94.869	94.890	-0.021	3.800	94.453	-2.00									
-5.025	94.922	178.07	-4.999	94.876	21.30	-3.919	94.646	159.00	-3.800	94.456	-2.00	3+11.326	PT		94.872	94.887	-0.014	3.800	94.456	-2.00	3.919	94.646	159.00	4.999	94.876	21.30	5.122	94.825	-42.25
-5.046	94.910	52.43	-4.999	94.886	21.30	-3.919	94.656	159.00	-3.800	94.466	-2.00	4+0.000			94.882	94.866	0.016	3.800	94.466	-2.00	3.919	94.656	159.00	4.999	94.886	21.30	5.136	94.820	-48.01
-5.065	94.876	9.00	-4.999	94.871	21.30	-3.919	94.641	159.00	-3.800	94.451	-2.00	5+0.000			94.867	94.838	0.029	3.800	94.451	-2.00	3.919	94.641	159.00	4.999	94.871	21.30	5.149	94.792	-52.66
-5.053	94.847	32.70	-4.999	94.829	21.30	-3.919	94.599	159.00	-3.800	94.409	-2.00	5+14.142	PC		94.825	94.801	0.024	3.800	94.409	-2.00	3.919	94.599	159.00	4.999	94.829	21.30	5.156	94.744	-54.68
-5.046	94.829	52.03	-4.999	94.805	21.30	-3.919	94.575	159.00	-3.800	94.385	-2.00	6+0.000		PTV	94.801	94.779	0.022	3.800	94.385	-2.00	3.919	94.575	159.00	4.999	94.805	21.30	5.154	94.721	-54.06
-5.020	94.758	253.75	-4.999	94.707	21.30	-3.919	94.477	159.00	-3.800	94.287	-2.00	7+0.000			94.703	94.702	0.001	3.800	94.287	-2.00	3.919	94.477	159.00	4.999	94.707	21.30	5.133	94.644	-46.73
-5.025	94.703	372.47	-4.999	94.608	21.30	-3.919	94.378	159.00	-3.800	94.188	-2.00	8+0.000			94.604	94.643	-0.038	3.800	94.188	-2.00	3.919	94.378	159.00	4.999	94.608	21.30	5.097	94.582	-26.96
-5.055	94.644	223.57	-4.999	94.519	21.30	-3.919	94.289	159.00	-3.800	94.099	-2.00	8+18.034	PC		94.515	94.586	-0.071	3.800	94.099	-2.00	3.919	94.289	159.00	4.999	94.519	21.30	5.062	94.528	13.01
-5.055	94.644	223.42	-4.999	94.519	21.30	-3.919	94.289	159.00	-3.800	94.099	-2.00	8+18.091			94.515	94.586	-0.071	3.800	94.099	-2.00	3.919	94.289	159.00	4.999	94.519	21.30	5.062	94.527	13.02
-5.055	94.644	223.27	-4.999	94.519	21.30	-3.919	94.289	159.00	-3.800	94.099	-2.00	8+18.148	PT		94.515	94.585	-0.071	3.800	94.099	-2.00	3.919	94.289	159.00	4.999	94.519	21.30	5.062	94.527	13.03
-5.057	94.636	220.62	-4.999	94.510	21.30	-3.919	94.280	159.00	-3.800	94.090	-2.00	9+0.000			94.506	94.578	-0.072	3.800	94.090	-2.00	3.919	94.280	159.00	4.999	94.510	21.30	5.062	94.518	13.04
-5.038	94.519	279.66	-4.999	94.411	21.30	-3.919	94.181	159.00	-3.800	93.991	-2.00	10+0.000			94.407	94.460	-0.053	3.800	93.991	-2.00	3.919	94.181	159.00	4.999	94.411	21.30	5.074	94.408	-4.59
-5.026	94.409	355.69	-4.999	94.313	21.30	-3.919	94.083	159.00	-3.800	93.893	-2.00	11+0.000			94.309	94.362	-0.053	3.800	93.893	-2.00	3.919	94.083	159.00	4.999	94.313	21.30	5.069	94.314	1.98
-5.025	94.309	368.13	-4.999	94.214	21.30	-3.919	93.984	159.00	-3.800	93.794	-2.00	12+0.000			94.210	94.265	-0.055	3.800	93.794	-2.00	3.919	93.984	159.00	4.999	94.214	21.30	5.065	94.220	8.82
-5.019	94.168	265.99	-4.999	94.116	21.30	-3.919	93.886	159.00	-3.800	93.696	-2.00	13+0.000		PCV	94.112	94.132	-0.020	3.800	93.696	-2.00	3.919	93.886	159.00	4.999	94.116	21.30	5.090	94.097	-21.48
-5.044	94.102	57.84	-4.999	94.076	21.30	-3.919	93.846	159.00	-3.800	93.656	-2.00	13+8.349	PC		94.072	94.074	-0.003	3.800	93.656	-2.00	3.919	93.846	159.00	4.999	94.076	21.30	5.106	94.040	-33.31
-5.045	94.101	57.09	-4.999	94.075	21.30	-3.919	93.845	159.00	-3.800	93.655	-2.00	13+8.428			94.071	94.074	-0.002	3.800	93.655	-2.00	3.919								



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Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub			ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Bottom_Curb			EPS_Sub			Daylight								
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)			
-4.386	95.332	-47.94	-4.249	95.398	0.00	-3.170	95.398	348.55	-3.050	94.978	-2.00	0+0.000			95.379	95.379	0.000	3.049	95.168	4.23	3.169	95.168	0.00	4.249	95.398	21.30	4.338	95.380	-19.45
-4.386	95.300	-47.94	-4.249	95.366	0.00	-3.170	95.366	348.55	-3.050	94.946	-2.00	1+0.000			95.347	95.359	-0.012	3.049	95.136	4.23	3.169	95.136	0.00	4.249	95.366	21.30	4.338	95.348	-19.45
-4.386	95.284	-47.94	-4.249	95.349	0.00	-3.170	95.349	348.55	-3.050	94.929	-2.00	1+10.209	PC		95.330	95.345	-0.014	3.049	95.119	4.23	3.169	95.119	0.00	4.249	95.349	21.30	4.338	95.332	-19.45
-4.386	95.277	-47.94	-4.249	95.343	0.00	-3.170	95.343	348.55	-3.050	94.923	-2.00	1+14.416			95.324	95.301	0.023	3.049	95.113	4.23	3.169	95.113	0.00	4.249	95.343	21.30	4.338	95.325	-19.45
-4.386	95.270	-47.94	-4.249	95.336	0.00	-3.170	95.336	348.55	-3.050	94.916	-2.00	1+18.623	PT		95.317	95.206	0.111	3.049	95.106	4.23	3.169	95.106	0.00	4.249	95.336	21.30	4.338	95.319	-19.45
-4.386	95.268	-47.94	-4.249	95.334	0.00	-3.170	95.334	348.55	-3.050	94.914	-2.00	2+0.000			95.315	95.173	0.141	3.049	95.104	4.23	3.169	95.104	0.00	4.249	95.334	21.30	4.338	95.317	-19.45
-4.427	95.198	-59.91	-4.249	95.305	0.00	-3.170	95.305	348.55	-3.050	94.885	-2.00	2+18.260	PC		95.286	95.170	0.115	3.049	95.075	4.23	3.169	95.075	0.00	4.249	95.305	21.30	4.481	95.144	-69.37
-4.425	95.199	-59.48	-4.249	95.303	0.00	-3.170	95.303	348.55	-3.050	94.883	-2.00	2+18.996			95.284	95.171	0.114	3.049	95.073	4.23	3.169	95.073	0.00	4.249	95.303	21.30	4.482	95.142	-69.41
-4.423	95.200	-59.05	-4.249	95.302	0.00	-3.170	95.302	348.55	-3.050	94.882	-2.00	2+19.731	PT		95.283	95.171	0.112	3.049	95.072	4.23	3.169	95.072	0.00	4.249	95.302	21.30	4.480	95.143	-69.16
-4.422	95.200	-58.89	-4.249	95.302	0.00	-3.170	95.302	348.55	-3.050	94.882	-2.00	3+0.000			95.283	95.172	0.111	3.049	95.072	4.23	3.169	95.072	0.00	4.249	95.302	21.30	4.479	95.143	-69.07
-4.422	95.175	-58.89	-4.249	95.276	0.00	-3.170	95.276	348.55	-3.050	94.856	-2.00	3+15.887	PC		95.257	95.187	0.070	3.049	95.046	4.23	3.169	95.046	0.00	4.249	95.276	21.30	4.479	95.118	-69.07
-4.422	95.168	-58.89	-4.249	95.270	0.00	-3.170	95.270	348.55	-3.050	94.850	-2.00	4+0.000			95.251	95.194	0.057	3.049	95.040	4.23	3.169	95.040	0.00	4.249	95.270	21.30	4.479	95.111	-69.07
-4.422	95.167	-58.89	-4.249	95.269	0.00	-3.170	95.269	348.55	-3.050	94.849	-2.00	4+0.454			95.250	95.195	0.055	3.049	95.039	4.23	3.169	95.039	0.00	4.249	95.269	21.30	4.479	95.111	-69.07
-4.422	95.160	-58.89	-4.249	95.262	0.00	-3.170	95.262	348.55	-3.050	94.842	-2.00	4+5.021	PT		95.243	95.205	0.038	3.049	95.032	4.23	3.169	95.032	0.00	4.249	95.262	21.30	4.479	95.103	-69.07
-4.422	95.154	-58.89	-4.249	95.255	0.00	-3.170	95.255	348.55	-3.050	94.835	-2.00	4+9.145	PC		95.236	95.212	0.025	3.049	95.025	4.23	3.169	95.025	0.00	4.249	95.255	21.30	4.479	95.097	-69.07
-4.422	95.149	-58.89	-4.249	95.251	0.00	-3.170	95.251	348.55	-3.050	94.831	-2.00	4+11.889			95.232	95.215	0.017	3.049	95.021	4.23	3.169	95.021	0.00	4.249	95.251	21.30	4.479	95.092	-69.07
-4.422	95.145	-58.89	-4.249	95.247	0.00	-3.170	95.247	348.55	-3.050	94.827	-2.00	4+14.633	PT		95.228	95.217	0.010	3.049	95.017	4.23	3.169	95.017	0.00	4.249	95.247	21.30	4.479	95.088	-69.07
-4.422	95.136	-58.89	-4.249	95.238	0.00	-3.170	95.238	348.55	-3.050	94.818	-2.00	5+0.000			95.219	95.219	0.000	3.049	95.008	4.23	3.169	95.008	0.00	4.249	95.238	21.30	4.479	95.079	-69.07
-4.297	95.229	48.20	-4.249	95.206	0.00	-3.170	95.206	348.55	-3.050	94.786	-2.00	6+0.000			95.187	95.193	-0.005	3.049	94.976	4.23	3.169	94.976	0.00	4.249	95.206	21.30	4.378	95.149	-44.73
-4.289	95.227	80.12	-4.249	95.195	0.00	-3.170	95.195	348.55	-3.050	94.775	-2.00	6+6.756		PCV	95.176	95.181	-0.005	3.049	94.965	4.23	3.169	94.965	0.00	4.249	95.195	21.30	4.379	95.137	-44.98
-4.378	95.111	-44.91	-4.249	95.169	0.00	-3.170	95.169	348.55	-3.050	94.749	-2.00	7+0.000			95.150	95.222	-0.072	3.049	94.939	4.23	3.169	94.939	0.00	4.249	95.169	21.30	4.323	95.166	-3.91
-4.342	95.045	-23.56	-4.249	95.067	0.00	-3.170	95.067	348.55	-3.050	94.647	-2.00	8+0.000		PTV	95.048	95.006	0.042	3.049	94.837	4.23	3.169	94.837	0.00	4.249	95.067	21.30	4.431	94.956	-60.97
-4.326	94.878	-7.32	-4.249	94.884	0.00	-3.170	94.884	348.55	-3.050	94.464	-2.00	9+0.000			94.865	94.836	0.029	3.049	94.654	4.23	3.169	94.654	0.00	4.249	94.884	21.30	4.406	94.798	-54.67
-4.322	94.859	-1.41	-4.249	94.860	0.00	-3.170	94.860	348.55	-3.050	94.440	-2.00	9+2.283		PCV	94.841	94.817	0.023	3.049	94.630	4.23	3.169	94.630	0.00	4.249	94.860	21.30	4.401	94.779	-53.09
-4.314	94.678	10.02	-4.249	94.672	0.00	-3.170	94.672	348.55	-3.050	94.252	-2.00	10+0.000			94.653	94.637	0.015	3.049	94.442	4.23	3.169	94.442	0.00	4.249	94.672	21.30	4.386	94.606	-47.98
-4.314	94.512	10.02	-4.249	94.506	0.00	-3.170	94.506	348.55	-3.050	94.086	-2.00	11+0.000			94.487	94.401	0.086	3.049	94.276	4.23	3.169	94.276	0.00	4.249	94.506	21.30	4.386	94.440	-47.98
-4.314	94.466	10.02	-4.249	94.460	0.00	-3.170	94.460	348.55	-3.050	94.040	-2.00	11+8.802			94.441	94.445	-0.004	3.049	94.230	4.23	3.169	94.230	0.00	4.249	94.460	21.30	4.386	94.394	-47.98
-4.314	94.432	10.02	-4.249	94.426	0.00	-3.170	94.426	348.55	-3.050	94.006	-2.00	12+0.000		PTV	94.407	94.392	0.015	3.049	94.196	4.23	3.169	94.196	0.00	4.249	94.426	21.30	4.386	94.360	-47.98
-4.281	94.468	127.80	-4.249	94.428	0.00	-3.170	94.428	348.55	-3.050	94.008	-2.00	13+0.000			94.409	94.423	-0.014	3.049	94.198	4.23	3.169	94.198	0.00	4.249	94.428	21.30	4.369	94.380	-40.63
-4.282	94.489	116.36	-4.249	94.451	0.00	-3.170	94.451	348.55	-3.050	94.031	-2.00	14+0.000			94.432	94.442	-0.011	3.049	94.221	4.23	3.169	94.221	0.00	4.249	94.451	21.30	4.372	94.399	-41.99
-4.283	94.496	110.16	-4.249	94.459	0.00	-3.170	94.459	348.55	-3.050	94.039	-2.00	14+7.440			94.440	94.448	-0.009	3.049	94.229	4.23	3.16								

RUA C (LOT. BETEL) RUA C (LOT. BETEL) 0+0.000 18+3.552

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Bottom_Curb						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
			-4.249	96.558	0.00	-3.170	96.558	348.55	-3.050	96.138	-2.00	0+0.000			96.539	96.539	0.000	3.049	96.328	4.23	3.169	96.328	0.00	4.249	96.558	21.30	4.388	96.491	-48.84
			-4.249	96.351	0.00	-3.170	96.351	348.55	-3.050	95.931	-2.00	1+0.000			96.332	96.361	-0.029	3.049	96.121	4.23	3.169	96.121	0.00	4.249	96.351	21.30	4.270	96.402	243.15
			-4.249	96.340	0.00	-3.170	96.340	348.55	-3.050	95.920	-2.00	1+1.088	PC		96.321	96.350	-0.029	3.049	96.110	4.23	3.169	96.110	0.00	4.249	96.340	21.30	4.269	96.391	259.16
			-4.249	96.336	0.00	-3.170	96.336	348.55	-3.050	95.916	-2.00	1+1.512			96.317	96.346	-0.029	3.049	96.106	4.23	3.169	96.106	0.00	4.249	96.336	21.30	4.269	96.387	267.40
			-4.249	96.331	0.00	-3.170	96.331	348.55	-3.050	95.911	-2.00	1+1.936	PT		96.312	96.342	-0.029	3.049	96.101	4.23	3.169	96.101	0.00	4.249	96.331	21.30	4.268	96.384	275.89
			-4.249	96.144	0.00	-3.170	96.144	348.55	-3.050	95.724	-2.00	2+0.000			96.125		96.125	3.049	95.914	4.23	3.169	95.914	0.00	4.249	96.144	21.30	4.268	96.197	275.89
			-4.249	96.087	0.00	-3.170	96.087	348.55	-3.050	95.667	-2.00	2+5.571	PC		96.068		96.068	3.049	95.857	4.23	3.169	95.857	0.00	4.249	96.087	21.30	4.268	96.139	275.89
			-4.249	96.075	0.00	-3.170	96.075	348.55	-3.050	95.655	-2.00	2+6.689			96.056		96.056	3.049	95.845	4.23	3.169	95.845	0.00	4.249	96.075	21.30	4.268	96.127	275.89
			-4.249	96.064	0.00	-3.170	96.064	348.55	-3.050	95.644	-2.00	2+7.807	PT		96.045		96.045	3.049	95.834	4.23	3.169	95.834	0.00	4.249	96.064	21.30	4.268	96.116	275.89
			-4.249	95.941	0.00	-3.170	95.941	348.55	-3.050	95.521	-2.00	3+0.000			95.922		95.922	3.049	95.711	4.23	3.169	95.711	0.00	4.249	95.941	21.30	4.268	95.993	275.89
			-4.249	95.841	0.00	-3.170	95.841	348.55	-3.050	95.421	-2.00	4+0.000			95.822		95.822	3.049	95.611	4.23	3.169	95.611	0.00	4.249	95.841	21.30	4.425	96.085	139.40
			-4.249	95.886	0.00	-3.170	95.886	348.55	-3.050	95.466	-2.00	5+0.000		PTV	95.867		95.867	3.049	95.656	4.23	3.169	95.656	0.00	4.249	95.886	21.30	4.409	96.115	143.21
			-4.249	96.077	0.00	-3.170	96.077	348.55	-3.050	95.657	-2.00	6+0.000			96.058		96.058	3.049	95.847	4.23	3.169	95.847	0.00	4.249	96.077	21.30	4.288	96.185	278.86
			-4.249	96.206	0.00	-3.170	96.206	348.55	-3.050	95.786	-2.00	6+9.744	PC		96.187	96.192	-0.006	3.049	95.976	4.23	3.169	95.976	0.00	4.249	96.206	21.30	4.275	96.251	174.35
			-4.249	96.208	0.00	-3.170	96.208	348.55	-3.050	95.788	-2.00	6+9.910			96.189	96.193	-0.004	3.049	95.978	4.23	3.169	95.978	0.00	4.249	96.208	21.30	4.277	96.252	161.09
			-4.249	96.210	0.00	-3.170	96.210	348.55	-3.050	95.790	-2.00	6+10.076	PT		96.191	96.194	-0.003	3.049	95.980	4.23	3.169	95.980	0.00	4.249	96.210	21.30	4.278	96.253	149.04
			-4.249	96.333	0.00	-3.170	96.333	348.55	-3.050	95.913	-2.00	7+0.000			96.314	96.257	0.057	3.049	96.103	4.23	3.169	96.103	0.00	4.249	96.333	21.30	4.346	96.308	-26.40
			-4.249	96.358	0.00	-3.170	96.358	348.55	-3.050	95.938	-2.00	8+0.000		PTV	96.339	96.274	0.064	3.049	96.128	4.23	3.169	96.128	0.00	4.249	96.358	21.30	4.299	96.379	44.35
			-4.249	96.276	0.00	-3.170	96.276	348.55	-3.050	95.856	-2.00	8+8.080	PC		96.257	96.214	0.043	3.049	96.046	4.23	3.169	96.046	0.00	4.249	96.276	21.30	4.301	96.296	38.23
			-4.249	96.244	0.00	-3.170	96.244	348.55	-3.050	95.824	-2.00	8+10.849		PCV	96.225	96.200	0.025	3.049	96.014	4.23	3.169	96.014	0.00	4.249	96.244	21.30	4.303	96.262	33.86
			-4.249	96.213	0.00	-3.170	96.213	348.55	-3.050	95.793	-2.00	8+13.618	PT		96.194	96.187	0.007	3.049	95.983	4.23	3.169	95.983	0.00	4.249	96.213	21.30	4.306	96.227	25.51
			-4.249	96.150	0.00	-3.170	96.150	348.55	-3.050	95.730	-2.00	9+0.000		PTV	96.131	96.134	-0.003	3.049	95.920	4.23	3.169	95.920	0.00	4.249	96.150	21.30	4.311	96.160	15.52
			-4.249	96.053	0.00	-3.170	96.053	348.55	-3.050	95.633	-2.00	10+0.000			96.034	96.076	-0.042	3.049	95.823	4.23	3.169	95.823	0.00	4.249	96.053	21.30	4.290	96.084	75.94
			-4.249	96.030	0.00	-3.170	96.030	348.55	-3.050	95.610	-2.00	10+6.252	PC		96.011	96.049	-0.038	3.049	95.800	4.23	3.169	95.800	0.00	4.249	96.030	21.30	4.300	96.051	41.60
			-4.249	96.029	0.00	-3.170	96.029	348.55	-3.050	95.609	-2.00	10+6.645			96.010	96.046	-0.036	3.049	95.799	4.23	3.169	95.799	0.00	4.249	96.029	21.30	4.300	96.049	39.56
			-4.249	96.027	0.00	-3.170	96.027	348.55	-3.050	95.607	-2.00	10+7.039	PT		96.008	96.043	-0.035	3.049	95.797	4.23	3.169	95.797	0.00	4.249	96.027	21.30	4.301	96.047	37.58
			-4.249	95.979	0.00	-3.170	95.979	348.55	-3.050	95.559	-2.00	11+0.000			95.960	95.991	-0.031	3.049	95.749	4.23	3.169	95.749	0.00	4.249	95.979	21.30	4.325	95.975	-6.18
			-4.249	95.931	0.00	-3.170	95.931	348.55	-3.050	95.511	-2.00	11+13.125	PC		95.912	96.023	-0.112	3.049	95.701	4.23	3.169	95.701	0.00	4.249	95.931	21.30	4.359	95.892	-35.35
			-4.249	95.915	0.00	-3.170	95.915	348.55	-3.050	95.495	-2.00	11+17.294			95.896	95.989	-0.093	3.049	95.685	4.23	3.169	95.685	0.00	4.249	95.915	21.30	4.357	95.878	-34.16
-4.318	96.043	200.20	-4.249	95.905	0.00	-3.170	95.905	348.55	-3.050	95.485	-2.00	12+0.000			95.886	95.977	-0.091	3.049	95.675	4.23	3.169	95.675	0.00	4.249	95.905	21.30	4.360	95.866	-35.48
-4.286	96.005	287.95	-4.249	95.900	0.00	-3.170	95.900	348.55	-3.050	95.480	-2.00	12+1.464	PT		95.881	95.954	-0.074	3.049	95.670	4.23	3.16								

RUA D (LOT. BETEL) RUA D (LOT. BETEL) 0+0.000 9+11.470

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Bottom_Curb						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
0+0.000			95.811	95.824	-0.013													0.000	0.000	0.00									
-4.366	95.904	-39.06	-4.249	95.949	0.00	-3.170	95.949	348.55	-3.050	95.529	-2.00	1+0.000			95.930	95.844	0.086	3.049	95.719	4.23	3.169	95.719	0.00	4.249	95.949	21.30	4.483	95.787	-69.53
-4.368	95.991	-40.15	-4.249	96.039	0.00	-3.170	96.039	348.55	-3.050	95.619	-2.00	2+0.000			96.020	95.960	0.060	3.049	95.809	4.23	3.169	95.809	0.00	4.249	96.039	21.30	4.432	95.927	-61.01
-4.356	96.084	-33.08	-4.249	96.119	0.00	-3.170	96.119	348.55	-3.050	95.699	-2.00	2+18.035	PC		96.100	96.061	0.039	3.049	95.889	4.23	3.169	95.889	0.00	4.249	96.119	21.30	4.411	96.029	-56.00
-4.356	96.084	-33.08	-4.249	96.119	0.00	-3.170	96.119	348.55	-3.050	95.699	-2.00	2+18.037			96.100	96.061	0.039	3.049	95.889	4.23	3.169	95.889	0.00	4.249	96.119	21.30	4.411	96.029	-56.00
-4.354	96.094	-32.27	-4.249	96.128	0.00	-3.170	96.128	348.55	-3.050	95.708	-2.00	3+0.000			96.109	96.072	0.037	3.049	95.898	4.23	3.169	95.898	0.00	4.249	96.128	21.30	4.408	96.040	-55.34
-4.330	96.208	-11.63	-4.249	96.217	0.00	-3.170	96.217	348.55	-3.050	95.797	-2.00	4+0.000			96.198	96.182	0.016	3.049	95.987	4.23	3.169	95.987	0.00	4.249	96.217	21.30	4.387	96.150	-48.53
-4.324	96.212	-5.18	-4.249	96.216	0.00	-3.170	96.216	348.55	-3.050	95.796	-2.00	5+0.000			96.197	96.175	0.022	3.049	95.986	4.23	3.169	95.986	0.00	4.249	96.216	21.30	4.396	96.140	-51.56
-4.312	96.108	14.38	-4.249	96.099	0.00	-3.170	96.099	348.55	-3.050	95.679	-2.00	6+0.000			96.080	96.075	0.005	3.049	95.869	4.23	3.169	95.869	0.00	4.249	96.099	21.30	4.381	96.038	-45.98
-4.318	96.001	4.18	-4.249	95.998	0.00	-3.170	95.998	348.55	-3.050	95.578	-2.00	6+17.080	PC		95.979	95.968	0.011	3.049	95.768	4.23	3.169	95.768	0.00	4.249	95.998	21.30	4.388	95.931	-48.88
-4.319	95.983	2.23	-4.249	95.981	0.00	-3.170	95.981	348.55	-3.050	95.561	-2.00	7+0.000			95.962	95.950	0.012	3.049	95.751	4.23	3.169	95.751	0.00	4.249	95.981	21.30	4.390	95.912	-49.43
-4.314	95.870	9.63	-4.249	95.864	0.00	-3.170	95.864	348.55	-3.050	95.444	-2.00	8+0.000			95.845	95.834	0.011	3.049	95.634	4.23	3.169	95.634	0.00	4.249	95.864	21.30	4.406	95.779	-54.56
-4.314	95.753	9.63	-4.249	95.747	0.00	-3.170	95.747	348.55	-3.050	95.327	-2.00	9+0.000			95.728	95.734	-0.006	3.049	95.517	4.23	3.169	95.517	0.00	4.249	95.747	21.30	4.406	95.661	-54.56
-4.314	95.686	9.63	-4.249	95.679	0.00	-3.170	95.679	348.55	-3.050	95.259	-2.00	9+11.470			95.660	95.629	0.031	3.049	95.449	4.23	3.169	95.449	0.00	4.249	95.679	21.30	4.406	95.594	-54.56

RUA E (LOT. BETEL) RUA E (LOT. BETEL) 0+0.000 9+13.144

Lado Esquerdo												Eixo						Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Bottom_Curb						EPS_Sub			Daylight		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
0+0.000			0.000	95.394	-95.394													0.000	0.000	0.00									
-4.266	95.570	340.37	-4.249	95.516	0.00	-3.170	95.516	348.55	-3.050	95.096	-2.00	1+0.000			95.497	95.541	-0.045	3.049	95.286	4.23	3.169	95.286	0.00	4.249	95.516	21.30	4.329	95.507	-10.32
-4.272	95.581	212.39	-4.249	95.532	0.00	-3.170	95.532	348.55	-3.050	95.112	-2.00	1+2.500	PC		95.513	95.552	-0.038	3.049	95.302	4.23	3.169	95.302	0.00	4.249	95.532	21.30	4.331	95.522	-12.88
-4.277	95.589	157.57	-4.249	95.545	0.00	-3.170	95.545	348.55	-3.050	95.125	-2.00	1+4.400			95.526	95.559	-0.033	3.049	95.315	4.23	3.169	95.315	0.00	4.249	95.545	21.30	4.336	95.530	-18.06
-4.277	95.602	159.59	-4.249	95.558	0.00	-3.170	95.558	348.55	-3.050	95.138	-2.00	1+6.299	PT		95.539	95.572	-0.033	3.049	95.328	4.23	3.169	95.328	0.00	4.249	95.558	21.30	4.337	95.541	-19.28
-4.277	95.695	159.59	-4.249	95.651	0.00	-3.170	95.651	348.55	-3.050	95.231	-2.00	2+0.000			95.632	95.644	-0.013	3.049	95.421	4.23	3.169	95.421	0.00	4.249	95.651	21.30	4.337	95.634	-19.28
-4.277	95.751	159.59	-4.249	95.707	0.00	-3.170	95.707	348.55	-3.050	95.287	-2.00	2+8.318	PC		95.688	95.679	0.009	3.049	95.477	4.23	3.169	95.477	0.00	4.249	95.707	21.30	4.337	95.690	-19.28
-4.277	95.771	159.59	-4.249	95.728	0.00	-3.170	95.728	348.55	-3.050	95.308	-2.00	2+11.380			95.709	95.693	0.016	3.049	95.498	4.23	3.169	95.498	0.00	4.249	95.728	21.30	4.337	95.711	-19.28
-4.277	95.792	159.59	-4.249	95.749	0.00	-3.170	95.749	348.55	-3.050	95.329	-2.00	2+14.442	PT		95.730	95.712	0.018	3.049	95.519	4.23	3.169	95.519	0.00	4.249	95.749	21.30	4.337	95.732	-19.28
-4.277	95.830	159.59	-4.249	95.786	0.00	-3.170	95.786	348.55	-3.050	95.366	-2.00	3+0.000			95.767	95.747	0.020	3.049	95.556	4.23	3.169	95.556	0.00	4.249	95.786	21.30	4.337	95.769	-19.28
-4.313	95.929	12.00	-4.249	95.921	0.00	-3.170	95.921	348.55	-3.050	95.501	-2.00	4+0.000			95.902	95.893	0.010	3.049	95.691	4.23	3.169	95.691	0.00	4.249	95.921	21.30	4.383	95.859	-46.71
-4.306	95.959	25.51	-4.249	95.945	0.00	-3.170	95.945	348.55	-3.050	95.525	-2.00	4+3.442	PC		95.926	95.924	0.002	3.049	95.715	4.23	3.169	95.715	0.00	4.249	95.945	21.30	4.376	95.889	-44.07
-4.305	95.963	27.63	-4.249	95.948	0.00	-3.170	95.948	348.55	-3.050	95.528	-2.00	4+3.938			95.929	95.928	0.001	3.049	95.718	4.23	3.169	95.718	0.00	4.249	95.948	21.30	4.377	95.892	-44.15
-4.304	95.968	29.79	-4.249	95.951	0.00	-3.170	95.951	348.55	-3.050	95.531	-2.00	4+4.434	PT		95.932	95.933	0.000	3.049	95.721	4.23	3.169	95.721	0.00	4.249	95.951	21.30	4.377	95.895	-44.24
-4.310	95.863	17.22	-4.249	95.852	0.00	-3.170	95.852	348.55	-3.050	95.432	-2.00	5+0.000			95.833	95.829	0.005	3.049	95.622	4.23	3.169	95.622	0.00	4.249	95.852	21.30	4.409	95.764	-55.40
-4.290	95.681	74.81	-4.249	95.650	0.00	-3.170	95.650	348.55	-3.050	95.230	-2.00	6+0.000			95.631	95.631	0.001	3.049	95.420	4.23	3.169	95.420	0.00	4.249	95.650	21.30	4.392	95.579	-50.26
			-4.249	95.464	0.00	-3.170	95.464	348.55	-3.050	95.044	-2.00	6+18.467	PC		95.445	95.480	-0.035	3.049	95.234	4.23	3.169	95.234	0.00	4.249	95.464	21.30	4.361	95.423	-36.57
-4.257	95.525	1,018.55	-4.249	95.449	0.00	-3.170	95.449	348.55	-3.050	95.029	-2.00	7+0.000			95.430	95.467	-0.038	3.049	95.219	4.23	3.169	95.219	0.00	4.249	95.449	21.30	4.359	95.410	-35.16
-4.308	95.374	218.72	-4.249	95.247	0.00	-3.170	95.247	348.55	-3.050	94.827	-2.00	8+0.000			95.228	95.317	-0.089	3.049	95.017	4.23	3.169	95.017	0.00	4.249	95.247	21.30	4.315	95.252	8.50
-4.308	95.172	218.72	-4.249	95.045	0.00	-3.170	95.045	348.55	-3.050	94.625	-2.00	9+0.000			95.026	95.190	-0.164	3.049	94.815	4.23	3.169	94.815	0.00	4.249	95.045	21.30	4.315	95.050	8.50
-4.308	95.039	218.72	-4.249	94.912	0.00	-3.170	94.912	348.55	-3.050	94.492	-2.00	9+13.144			94.893	94.905	-0.012	3.049	94.682	4.23	3.169	94.682	0.00	4.249	94.912	21.30	4.315	94.918	8.50

  
Victor Leonardo Acioli Barros  
Engenheiro Civil  
CREA Reg. Nac. Nº 0210384751



SECRETARIA MUNICIPAL DE INFRAESTRUTURA - SEMINFRA

Ruas da Cidade Universitária e do Santos  
Dumont – Extensão 20,92 km

Projeto de Terraplenagem - Nota de Serviço

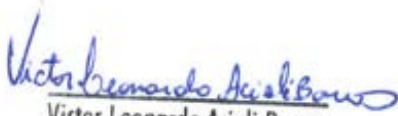
Julho/2022

RUA F (LOT. BETEL) RUA F (LOT. BETEL) 0+0.000 6+19.983

Lado Esquerdo												Eixo							Lado Direito											
Daylight			EPS_Sub						ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Bottom_Curb						EPS_Sub			Daylight			
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)
0+0.000			95.314	95.304	0.010																0.000	0.000	0.00							
-4.343	95.298	-23.99	-4.249	95.320	0.00	-3.170	95.320	348.55	-3.050	94.900	-2.00	1+0.000			95.301	95.250	0.050	3.049	95.090	4.23	3.169	95.090	0.00	4.249	95.320	21.30	4.389	95.251	-49.23	
-4.330	95.302	-11.86	-4.249	95.311	0.00	-3.170	95.311	348.55	-3.050	94.891	-2.00	1+7.457	PC		95.292	95.284	0.009	3.049	95.081	4.23	3.169	95.081	0.00	4.249	95.311	21.30	4.337	95.295	-18.95	
-4.328	95.303	-9.67	-4.249	95.311	0.00	-3.170	95.311	348.55	-3.050	94.891	-2.00	1+8.049			95.292	95.287	0.005	3.049	95.081	4.23	3.169	95.081	0.00	4.249	95.311	21.30	4.333	95.298	-15.25	
-4.326	95.304	-7.38	-4.249	95.310	0.00	-3.170	95.310	348.55	-3.050	94.890	-2.00	1+8.641	PT		95.291	95.290	0.001	3.049	95.080	4.23	3.169	95.080	0.00	4.249	95.310	21.30	4.329	95.301	-11.18	
-4.326	95.292	-7.38	-4.249	95.297	0.00	-3.170	95.297	348.55	-3.050	94.877	-2.00	2+0.000			95.278	95.297	-0.019	3.049	95.067	4.23	3.169	95.067	0.00	4.249	95.297	21.30	4.329	95.288	-11.18	
-4.326	95.369	-7.38	-4.249	95.374	0.00	-3.170	95.374	348.55	-3.050	94.954	-2.00	2+12.686	PC		95.355	95.388	-0.033	3.049	95.144	4.23	3.169	95.144	0.00	4.249	95.374	21.30	4.329	95.365	-11.18	
-4.326	95.372	-7.38	-4.249	95.378	0.00	-3.170	95.378	348.55	-3.050	94.958	-2.00	2+13.010			95.359	95.392	-0.033	3.049	95.148	4.23	3.169	95.148	0.00	4.249	95.378	21.30	4.329	95.369	-11.18	
-4.326	95.376	-7.38	-4.249	95.382	0.00	-3.170	95.382	348.55	-3.050	94.962	-2.00	2+13.334	PT		95.363	95.396	-0.033	3.049	95.152	4.23	3.169	95.152	0.00	4.249	95.382	21.30	4.329	95.373	-11.18	
-4.326	95.450	-7.38	-4.249	95.456	0.00	-3.170	95.456	348.55	-3.050	95.036	-2.00	3+0.000			95.437	95.415	0.022	3.049	95.226	4.23	3.169	95.226	0.00	4.249	95.456	21.30	4.329	95.447	-11.18	
-4.367	95.585	-39.36	-4.249	95.631	0.00	-3.170	95.631	348.55	-3.050	95.211	-2.00	3+15.705	PC		95.612	95.552	0.061	3.049	95.401	4.23	3.169	95.401	0.00	4.249	95.631	21.30	4.415	95.537	-56.98	
-4.367	95.586	-39.50	-4.249	95.632	0.00	-3.170	95.632	348.55	-3.050	95.212	-2.00	3+15.758			95.613	95.552	0.061	3.049	95.402	4.23	3.169	95.402	0.00	4.249	95.632	21.30	4.415	95.538	-56.98	
-4.367	95.586	-39.64	-4.249	95.633	0.00	-3.170	95.633	348.55	-3.050	95.213	-2.00	3+15.811	PT		95.614	95.552	0.061	3.049	95.403	4.23	3.169	95.403	0.00	4.249	95.633	21.30	4.415	95.539	-56.98	
-4.367	95.633	-39.64	-4.249	95.679	0.00	-3.170	95.679	348.55	-3.050	95.259	-2.00	4+0.000		PCV	95.660	95.578	0.083	3.049	95.449	4.23	3.169	95.449	0.00	4.249	95.679	21.30	4.415	95.585	-56.98	
-4.367	95.771	-39.64	-4.249	95.818	0.00	-3.170	95.818	348.55	-3.050	95.398	-2.00	4+12.654	PC		95.799	95.669	0.130	3.049	95.588	4.23	3.169	95.588	0.00	4.249	95.818	21.30	4.415	95.724	-56.98	
-4.367	95.811	-39.64	-4.249	95.858	0.00	-3.170	95.858	348.55	-3.050	95.438	-2.00	4+16.791			95.839	95.816	0.022	3.049	95.628	4.23	3.169	95.628	0.00	4.249	95.858	21.30	4.415	95.764	-56.98	
-4.367	95.840	-39.64	-4.249	95.887	0.00	-3.170	95.887	348.55	-3.050	95.467	-2.00	5+0.000			95.868	95.895	-0.027	3.049	95.657	4.23	3.169	95.657	0.00	4.249	95.887	21.30	4.415	95.793	-56.98	
-4.367	95.848	-39.64	-4.249	95.895	0.00	-3.170	95.895	348.55	-3.050	95.475	-2.00	5+0.928	PT	PTV	95.876	95.907	-0.031	3.049	95.665	4.23	3.169	95.665	0.00	4.249	95.895	21.30	4.415	95.801	-56.98	
-4.367	95.943	-39.64	-4.249	95.990	0.00	-3.170	95.990	348.55	-3.050	95.570	-2.00	5+13.989	PC		95.971	96.023	-0.052	3.049	95.760	4.23	3.169	95.760	0.00	4.249	95.990	21.30	4.415	95.896	-56.98	
-4.367	95.945	-39.64	-4.249	95.992	0.00	-3.170	95.992	348.55	-3.050	95.572	-2.00	5+14.228			95.973	96.025	-0.052	3.049	95.762	4.23	3.169	95.762	0.00	4.249	95.992	21.30	4.415	95.898	-56.98	
-4.367	95.946	-39.64	-4.249	95.993	0.00	-3.170	95.993	348.55	-3.050	95.573	-2.00	5+14.468	PT		95.974	96.027	-0.053	3.049	95.763	4.23	3.169	95.763	0.00	4.249	95.993	21.30	4.415	95.899	-56.98	
			-4.249	96.028	0.00	-3.170	96.028	348.55	-3.050	95.608	-2.00	6+0.000			96.009	96.069	-0.060	3.049	95.798	4.23	3.169	95.798	0.00	4.249	96.028	21.30	4.328	96.020	-9.82	
			-4.249	96.079	0.00	-3.170	96.079	348.55	-3.050	95.659	-2.00	6+19.983			96.060		96.060	3.049	95.849	4.23	3.169	95.849	0.00	4.249	96.079	21.30	4.328	96.071	-9.82	

RUA I (LOT. BETEL) RUA I (LOT. BETEL) 0+0.000 2+11.084

Lado Esquerdo											Eixo						Lado Direito											
Daylight			EPS_Sub			ETW_Sub			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Bottom_Curb						EPS_Sub			Daylight				
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
0+0.000			95.241	95.207	0.034													0.000	0.000	0.00								
-4.387	95.376	-48.34	-4.249	95.442	0.00	-3.170	95.442	348.55	-3.050	95.022	-2.00	1+0.000		95.423	95.383	0.040	3.049	95.212	4.23	3.169	95.212	0.00	4.249	95.442	21.30	4.373	95.390	-42.29
-4.387	95.558	-48.34	-4.249	95.624	0.00	-3.170	95.624	348.55	-3.050	95.204	-2.00	2+0.000		95.605	95.588	0.018	3.049	95.394	4.23	3.169	95.394	0.00	4.249	95.624	21.30	4.373	95.572	-42.29
-4.387	95.659	-48.34	-4.249	95.725	0.00	-3.170	95.725	348.55	-3.050	95.305	-2.00	2+11.084		95.706	95.690	0.016	3.049	95.495	4.23	3.169	95.495	0.00	4.249	95.725	21.30	4.373	95.673	-42.29

  
Victor Leonardo Acioli Barros  
Engenheiro Civil  
CREA Reg. N.º 0210384751



SECRETARIA MUNICIPAL DE INFRAESTRUTURA - SEMINFRA

Ruas da Cidade Universitária e do Santos  
Dumont – Extensão 20,92 km

Projeto de Terraplenagem - Nota de Serviço

Julho/2022

Sem Escala



Cubação (Método da semissoma das áreas) - RUA 8A							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0,00	2,5	0,07	0.00	0	0	0	0
1+0,00	2,78	0,01	52.74	0,85	52,74	0,85	51,89
2+0,00	2,87	0	56.45	0,16	109,19	1	108,19
3+0,00	2,73	0	55.98	0,06	165,17	1,06	164,1
4+0,00	2,32	0,08	50.53	0,84	215,7	1,9	213,8
4+18,69	1,95	0,05	39.91	1,21	255,61	3,11	252,5
4+18,91	1,95	0,05	0.43	0,01	256,04	3,12	252,92
4+19,13	1,96	0,05	0.43	0,01	256,47	3,13	253,34
5+0,00	1,97	0,04	1.71	0,04	258,18	3,17	255,01
6+0,00	2,23	0	42.05	0,41	300,24	3,58	296,65
7+0,00	2,2	0	44.29	0	344,52	3,59	340,94
8+0,00	2,49	0	46.90	0	391,42	3,59	387,84
8+17,57	2,97	0,01	47.94	0,13	439,37	3,72	435,65
8+17,63	2,97	0,01	0.20	0	439,57	3,72	435,85
8+17,70	2,97	0,01	0.20	0	439,77	3,72	436,05
8+17,71	2,97	0,01	0.03	0	439,8	3,72	436,08
9+0,00	3,13	0	6.97	0,01	446,77	3,73	443,04
9+0,84	3,13	0	2.64	0	449,41	3,73	445,68
9+3,97	3,04	0,02	9.66	0,04	459,07	3,76	455,31
9+6,61	2,82	0,04	7.73	0,08	466,81	3,85	462,96
9+6,96	2,8	0,05	0.96	0,01	467,77	3,86	463,91
9+7,30	2,78	0,05	0.96	0,02	468,73	3,88	464,85
9+19,53	2,2	0,15	30.46	1,18	499,19	5,05	494,14
10+0,00	2,17	0,15	1.02	0,07	500,21	5,12	495,09
10+3,87	2,17	0,19	8.38	0,67	508,59	5,79	502,79
10+8,20	2,31	0,18	9.71	0,8	518,29	6,6	511,7
11+0,00	2,36	0,13	27.55	1,82	545,84	8,42	537,42
12+0,00	2,16	0,09	45.18	2,21	591,02	10,63	580,39
13+0,00	1,66	0,06	38.27	1,5	629,29	12,13	617,16
14+0,00	1,3	0,08	29.68	1,37	658,97	13,5	645,47
14+4,12	1,23	0,08	5.23	0,32	664,21	13,83	650,38
14+4,13	1,23	0,08	0.00	0	664,21	13,83	650,38
14+4,13	1,23	0,08	0.00	0	664,21	13,83	650,38
15+0,00	0,97	0	17.52	0,66	681,73	14,49	667,24
16+0,00	1,7	0,04	26.69	0,4	708,42	14,89	693,54
17+0,00	2,48	0,11	41.77	1,44	750,2	16,33	733,87
17+2,46	2,51	0,12	6.14	0,28	756,34	16,61	739,73

  
 Victor Leonardo Acioli Barros  
 Engenheiro Civil  
 CREA Reg. Nac. Nº 0210384751



Cubação (Método da semissoma das áreas) - RUA G (CID. UNIV.)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0,00	3,9	0	0.00	0	0	0	0
1+0,00	4,3	0	81.99	0,02	81,99	0,02	81,96
2+0,00	4,31	0	86.17	0,01	168,16	0,03	168,13
3+0,00	4,19	0	85.04	0,03	253,2	0,06	253,15
4+0,00	4,09	0	82.84	0,04	336,04	0,1	335,94
5+0,00	3,54	0,04	76.33	0,38	412,38	0,48	411,9
6+0,00	2,79	0,09	63.30	1,26	475,67	1,74	473,93
7+0,00	3,87	0	66.64	0,94	542,31	2,68	539,63
8+0,00	4,02	0,02	78.90	0,2	621,21	2,88	618,33
9+0,00	4,07	0,01	80.84	0,28	702,05	3,16	698,89
10+0,00	4,11	0,02	81.75	0,32	783,8	3,48	780,32
11+0,00	5,21	0	93.16	0,21	876,97	3,69	873,28
12+0,00	4,39	0	96.00	0	972,97	3,69	969,28
13+0,00	3,67	0,06	80.64	0,62	1053,61	4,31	1049,3
14+0,00	3,71	0,07	73.80	1,28	1127,41	5,58	1121,82
15+0,00	3,91	0,04	76.16	1,1	1203,57	6,69	1196,88
16+0,00	4,2	0,02	81.06	0,6	1284,64	7,29	1277,35
17+0,00	4,44	0	86.43	0,18	1371,06	7,47	1363,59
18+0,00	4,69	0	91.30	0,03	1462,37	7,51	1454,86
19+0,00	4,15	0,02	88.39	0,26	1550,76	7,77	1543
20+0,00	3,79	0,08	79.44	1,01	1630,2	8,77	1621,43
21+0,00	3,92	0,06	77.13	1,36	1707,34	10,13	1697,21
22+0,00	4,13	0,03	80.54	0,93	1787,88	11,06	1776,82
23+0,00	4,03	0,01	81.63	0,39	1869,51	11,45	1858,05
24+0,00	4,35	0	83.79	0,08	1953,3	11,53	1941,77
25+0,00	4,4	0	87.51	0,04	2040,82	11,58	2029,24
26+0,00	4,47	0	88.73	0,04	2129,55	11,62	2117,93
27+0,00	4,31	0	87.78	0,05	2217,32	11,66	2205,66
28+0,00	4,12	0,02	84.24	0,23	2301,56	11,89	2289,67
29+0,00	4,01	0,03	81.31	0,53	2382,88	12,42	2370,46
30+0,00	3,9	0,05	79.13	0,83	2462,01	13,25	2448,76
31+0,00	3,54	0,08	74.38	1,32	2536,39	14,57	2521,82
32+0,00	3,43	0,11	69.70	1,88	2606,08	16,45	2589,63
33+0,00	4,05	0,12	74.83	2,27	2680,91	18,72	2662,19

*Victor Leonardo Acioli Barros*  
**Victor Leonardo Acioli Barros**  
 Engenheiro Civil  
 CREA Reg. Nac. Nº 0210384751

Cubação (Método da semissoma das áreas) - RUA G (CID. UNIV.)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
34+0,00	3,08	0,3	71.31	4,23	2752,23	22,95	2729,28
35+0,00	3,69	0,24	67.73	5,4	2819,96	28,35	2791,6
36+0,00	4,07	0,25	77.60	4,92	2897,55	33,27	2864,28
37+0,00	3,3	0,34	73.66	5,94	2971,22	39,21	2932
38+0,00	3,76	0	70.58	3,41	3041,8	42,62	2999,18
39+0,00	2,34	0	61.01	0	3102,81	42,62	3060,19
40+0,00	1,35	0	36.95	0	3139,76	42,63	3097,13
41+0,00	1,02	0	23.66	0	3163,42	42,63	3120,79
42+0,00	1,54	0	25.59	0	3189,01	42,63	3146,38
43+0,00	2,15	0	36.91	0	3225,92	42,63	3183,29
44+0,00	2,42	0	45.63	0	3271,55	42,63	3228,92
45+0,00	2,58	0,2	50.00	1,98	3321,55	44,6	3276,94
46+0,00	4,11	0	66.95	1,98	3388,49	46,58	3341,91
47+0,00	4,16	0	82.72	0	3471,21	46,58	3424,63
48+0,00	4,12	0	82.80	0	3554,01	46,58	3507,43
49+0,00	4,15	0	82.66	0	3636,67	46,58	3590,09
50+0,00	4,03	0	81.79	0	3718,46	46,58	3671,88
51+0,00	3,93	0	79.63	0,01	3798,09	46,6	3751,5
52+0,00	4,61	0,02	85.36	0,17	3883,45	46,76	3836,69
52+10,29	2,71	0	37.63	0,08	3921,09	46,84	3874,25

  
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Engenheiro Civil  
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Cubação (Método da semissoma das áreas) - RUA RADIALISTA N. SUASSUNA							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0,00	3,67	0,08	0.00	0	0	0	0
1+0,00	3,73	0,01	74.01	0,91	74,01	0,91	73,09
2+0,00	3,89	0	76.21	0,1	150,21	1,02	149,2
3+0,00	4,05	0	79.38	0,04	229,59	1,05	228,54
4+0,00	4,14	0	81.93	0,02	311,52	1,07	310,45
5+0,00	4,16	0	83.00	0,01	394,52	1,08	393,44
6+0,00	0	0	41.56	0,01	436,08	1,09	434,99
6+7,41	0	0	0.00	0	436,08	1,09	434,99
7+0,00	0	0	0.00	0	436,08	1,09	434,99
8+0,00	4,8	0	47.98	0	484,06	1,09	482,97
9+0,00	5,61	0	104.06	0	588,12	1,09	587,03
10+0,00	5,84	0	114.44	0	702,55	1,09	701,47
11+0,00	4,55	0	103.88	0	806,43	1,09	805,34
12+0,00	3,37	0,07	79.18	0,74	885,61	1,83	883,78
13+0,00	0	0	33.66	0,73	919,27	2,56	916,71
13+1,04	0	0	0.00	0	919,27	2,56	916,71
14+0,00	0	0	0.00	0	919,27	2,56	916,71
15+0,00	4,54	0	45.40	0	964,67	2,56	962,11
15+11,75	4,42	0	52.65	0	1017,32	2,56	1014,76
16+0,00	4,31	0	36.01	0	1053,33	2,56	1050,77
17+0,00	4,13	0	84.38	0,01	1137,71	2,58	1135,14
18+0,00	3,88	0	80.08	0,04	1217,79	2,61	1215,18
19+0,00	3,63	0,02	75.06	0,21	1292,85	2,83	1290,03
20+0,00	3,68	0,03	73.05	0,46	1365,91	3,29	1362,62
21+0,00	4,06	0	77.40	0,29	1443,31	3,57	1439,74
22+0,00	4,14	0	82.07	0,02	1525,38	3,59	1521,78
23+0,00	4,03	0	81.73	0,02	1607,11	3,62	1603,49
24+0,00	3,92	0	79.49	0,04	1686,59	3,65	1682,94
25+0,00	3,92	0	78.42	0,04	1765,01	3,7	1761,31
26+0,00	4,01	0	79.30	0,04	1844,31	3,74	1840,58
27+0,00	0	0	40.09	0,02	1884,41	3,75	1880,66
28+0,00	0	0	0.00	0	1884,41	3,75	1880,66
29+0,00	3,71	0,04	37.11	0,44	1921,52	4,19	1917,32
30+0,00	3,95	0	76.57	0,47	1998,09	4,66	1993,42
31+0,00	4,18	0	81.21	0,04	2079,3	4,7	2074,6
32+0,00	4,27	0	84.45	0,03	2163,75	4,72	2159,02
33+0,00	0	0	42.70	0,01	2206,44	4,74	2201,71
34+0,00	0	0	0.00	0	2206,44	4,74	2201,71
35+0,00	0	0	0.00	0	2206,44	4,74	2201,71

*Victor Leonardo Acioli Barros*  
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 Engenheiro Civil  
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Cubação (Método da semissoma das áreas) - RUA RADIALISTA N. SUASSUNA							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
36+0,00	3,74	0	37.42	0,04	2243,86	4,78	2239,08
37+0,00	3,52	0,04	72.60	0,4	2316,47	5,18	2311,29
38+0,00	3,43	0,06	69.49	0,98	2385,96	6,16	2379,8
39+0,00	3,38	0,09	68.11	1,52	2454,06	7,67	2446,39
40+0,00	0	0	33.81	0,9	2487,87	8,57	2479,3
40+12,94	0	0	0.00	0	2487,87	8,57	2479,3
41+0,00	0	0	0.00	0	2487,87	8,57	2479,3
42+0,00	4,63	0	46.30	0	2534,17	8,58	2525,59
43+0,00	4,25	0	88.76	0,02	2622,93	8,6	2614,33
44+0,00	4,23	0,02	84.81	0,21	2707,74	8,81	2698,93
45+0,00	4,19	0	84.28	0,2	2792,02	9,02	2783,01
46+0,00	4,35	0	85.39	0,01	2877,41	9,03	2868,38
47+0,00	0	0	43.45	0,01	2920,86	9,04	2911,83
47+10,22	0	0	0.00	0	2920,86	9,04	2911,83
48+0,00	0	0	0.00	0	2920,86	9,04	2911,83
49+0,00	4,3	0	43.02	0,01	2963,88	9,05	2954,84
50+0,00	4,42	0	87.24	0,01	3051,12	9,06	3042,06
51+0,00	4,33	0	87.49	0,01	3138,6	9,08	3129,53
52+0,00	3,28	0,11	76.03	1,09	3214,64	10,17	3204,47
53+0,00	3,13	0,14	64.07	2,44	3278,71	12,61	3266,1
54+0,00	0	0	31.31	1,36	3310,02	13,97	3296,05
55+0,00	0	0	0.00	0	3310,02	13,97	3296,05
56+0,00	4,07	0	40.72	0,02	3350,74	14	3336,75
56+15,50	3,84	0,02	61.27	0,21	3412,01	14,21	3397,81

*Victor Leonardo Acioli Barros*  
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 Engenheiro Civil  
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Cubação (Método da semissoma das áreas) - RUA FORTALEZA							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0,00	3,69	0,04	0.00	0	0	0	0
1+0,00	3,55	0,04	72.36	0,83	72,36	0,83	71,53
2+0,00	3,79	0,01	73.38	0,52	145,75	1,36	144,39
3+0,00	3,81	0,02	76.05	0,32	221,79	1,68	220,11
4+0,00	3,67	0,03	74.81	0,54	296,6	2,22	294,39
5+0,00	3,82	0,02	74.91	0,5	371,51	2,72	368,79
6+0,00	4,23	0	80.56	0,22	452,07	2,93	449,14
7+0,00	4,9	0	91.37	0,01	543,45	2,95	540,5
8+0,00	4,7	0	96.04	0	639,49	2,95	636,55
9+0,00	4,03	0	87.25	0,02	726,74	2,96	723,78
10+0,00	3,66	0,02	76.86	0,26	803,6	3,22	800,38
10+11,97	4,62	0	49.55	0,14	853,15	3,36	849,79
10+13,73	4,7	0	8.19	0	861,34	3,36	857,98
10+15,48	5,16	0	8.67	0	870,01	3,36	866,65
11+0,00	5,18	0	23.36	0	893,37	3,36	890
11+15,57	4,04	0	71.82	0,02	965,19	3,38	961,81
12+0,00	4,08	0	18.02	0,01	983,21	3,39	979,82
12+1,61	4,1	0	6.58	0	989,78	3,39	986,39
12+7,65	4,19	0	25.06	0,01	1014,84	3,4	1011,44
13+0,00	4,34	0	52.70	0,01	1067,54	3,41	1064,13
13+16,88	4,66	0	75.99	0,01	1143,53	3,42	1140,11
13+18,97	4,71	0	9.81	0	1153,34	3,42	1149,93
14+0,00	4,72	0	4.84	0	1158,18	3,42	1154,76
14+1,07	4,74	0	5.06	0	1163,24	3,42	1159,82
15+0,00	5,04	0	92.59	0	1255,83	3,42	1252,41
16+0,00	5,19	0	102.27	0	1358,1	3,42	1354,69
17+0,00	4,4	0	95.87	0	1453,97	3,42	1450,55
17+17,34	3,94	0	72.28	0,04	1526,25	3,46	1522,79
17+18,50	3,93	0,01	4.57	0,01	1530,82	3,47	1527,36
17+19,66	3,93	0,01	4.56	0,01	1535,39	3,47	1531,91
18+0,00	3,92	0,01	1.32	0	1536,71	3,48	1533,23
19+0,00	3,79	0,01	77.18	0,14	1613,89	3,62	1610,27
20+0,00	3,94	0	77.32	0,09	1691,21	3,71	1687,5
21+0,00	4,47	0	84.08	0,03	1775,29	3,74	1771,55
22+0,00	5,91	0	103.77	0	1879,06	3,74	1875,31
22+1,96	5,34	0	11.04	0	1890,09	3,74	1886,35
22+2,03	5,33	0	0.37	0	1890,46	3,74	1886,72
22+2,10	5,31	0	0.36	0	1890,82	3,74	1887,08
23+0,00	3,44	0,07	78.31	0,65	1969,13	4,39	1964,74

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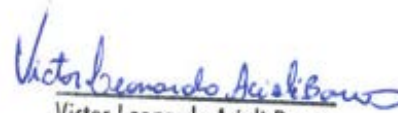
Cubação (Método da semissoma das áreas) - RUA FORTALEZA							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
24+0,00	3,06	0,17	65.00	2,4	2034,13	6,79	2027,34
25+0,00	2,91	0,2	59.75	3,71	2093,88	10,5	2083,38
25+7,09	2,89	0,2	20.56	1,43	2114,44	11,93	2102,51
25+8,39	2,89	0,2	3.74	0,26	2118,18	12,19	2105,99
25+9,68	2,89	0,2	3.74	0,26	2121,92	12,45	2109,47
26+0,00	2,99	0,19	30.32	1,98	2152,25	14,43	2137,82
27+0,00	3,07	0,19	60.57	3,77	2212,82	18,2	2194,62
27+9,88	3,52	0,07	32.60	1,31	2245,42	19,51	2225,91
27+10,38	3,56	0,07	1.77	0,04	2247,19	19,54	2227,64
27+10,88	3,59	0,06	1.79	0,03	2248,97	19,57	2229,4
28+0,00	4,42	0	36.51	0,27	2285,48	19,85	2265,64
29+0,00	4,22	0	86.44	0,02	2371,92	19,87	2352,05
29+12,38	4,09	0	51.45	0,01	2423,38	19,89	2403,49
29+12,84	4,09	0	1.89	0	2425,27	19,89	2405,38
29+13,30	4,1	0	1.89	0	2427,16	19,89	2407,27
30+0,00	4,06	0	27.33	0,01	2454,49	19,9	2434,59
31+0,00	4,06	0	81.14	0,03	2535,63	19,92	2515,71
31+14,41	3,86	0	57.06	0,03	2592,69	19,95	2572,74
31+17,74	3,82	0	12.80	0,01	2605,5	19,96	2585,54
32+0,00	3,77	0	8.56	0,01	2614,05	19,97	2594,09
32+1,08	3,75	0,01	4.05	0,01	2618,11	19,97	2598,14
33+0,00	5,16	0	84.30	0,06	2702,41	20,03	2682,38
33+3,21	4,94	0	16.23	0	2718,64	20,03	2698,61
33+3,91	4,95	0	3.46	0	2722,1	20,03	2702,07
33+4,61	5,1	0	3.51	0	2725,62	20,03	2705,59
34+0,00	4,59	0	74.52	0,01	2800,14	20,04	2780,1
34+0,60	4,6	0	2.75	0	2802,89	20,04	2782,85
34+7,09	4,54	0	29.65	0	2832,54	20,04	2812,5
34+13,58	4,38	0	28.91	0	2861,45	20,04	2841,41
35+0,00	4,14	0	27.34	0	2888,79	20,05	2868,75
36+0,00	4,11	0	82.51	0,01	2971,31	20,06	2951,25
36+7,34	4,5	0	31.61	0	3002,92	20,06	2982,86
36+10,07	4,51	0	12.28	0	3015,2	20,06	2995,14
36+12,80	4,52	0	12.31	0	3027,51	20,06	3007,45
37+0,00	4,44	0	32.26	0	3059,77	20,06	3039,71
38+0,00	4,43	0,04	88.67	0,39	3148,44	20,46	3127,98
38+19,54	3,99	0,04	82.24	0,72	3230,68	21,18	3209,5
39+0,00	3,99	0,04	1.84	0,02	3232,52	21,2	3211,33

  
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Cubação (Método da semissoma das áreas) - RUA FORTALEZA							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
39+0,07	3,99	0,04	0.29	0	3232,82	21,2	3211,62
39+0,61	3,99	0,04	2.14	0,02	3234,96	21,22	3213,74
40+0,00	4,04	0,04	77.90	0,73	3312,86	21,95	3290,91
41+0,00	3,96	0,07	79.99	1,13	3392,85	23,07	3369,78
42+0,00	4,37	0,06	83.31	1,31	3476,16	24,39	3451,77
42+10,10	4,42	0,04	44.39	0,49	3520,55	24,88	3495,67
42+14,25	4,17	0,06	17.80	0,21	3538,36	25,08	3513,27
42+18,39	3,89	0,1	16.72	0,32	3555,07	25,41	3529,67
43+0,00	3,83	0,11	6.21	0,16	3561,28	25,57	3535,71
44+0,00	3,16	0,21	69.89	3,16	3631,17	28,73	3602,44
44+17,53	5,24	0	73.63	1,82	3704,81	30,55	3674,25
44+19,05	5,13	0	7.89	0	3712,7	30,55	3682,14
45+0,00	5,04	0	4.81	0	3717,51	30,56	3686,95
45+0,57	5,13	0	2.92	0	3720,43	30,56	3689,87
46+0,00	3,51	0,13	83.88	1,24	3804,31	31,79	3772,52
47+0,00	3,44	0,13	69.47	2,52	3873,78	34,32	3839,47
47+2,93	3,44	0,12	10.08	0,36	3883,86	34,68	3849,18
47+6,88	3,45	0,12	13.61	0,48	3897,47	35,16	3862,31
47+10,83	3,46	0,11	13.65	0,45	3911,12	35,61	3875,5
48+0,00	3,57	0,03	32.20	0,65	3943,32	36,27	3907,06
49+0,00	3,85	0	74.16	0,35	4017,48	36,62	3980,87
50+0,00	4,1	0	79.50	0,03	4096,98	36,65	4060,33
50+0,71	4,11	0	2.90	0	4099,88	36,65	4063,23
50+8,41	4,17	0	31.84	0,01	4131,72	36,65	4095,06
50+16,10	4,24	0	32.36	0	4164,08	36,66	4127,42
51+0,00	4,29	0	16.62	0	4180,7	36,66	4144,05
52+0,00	4,51	0	88.03	0	4268,73	36,66	4232,07
53+0,00	4,44	0	89.53	0	4358,26	36,66	4321,59
53+0,12	4,44	0	0.52	0	4358,78	36,66	4322,11

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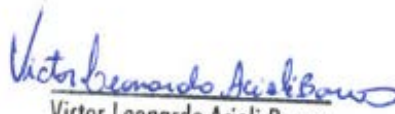
Cubação (Método da semissoma das áreas) - RUA WILSON GAMA							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0,00	0	0	0.00	0	0	0	0
1+0,00	0	0	0.00	0	0	0	0
2+0,00	2,52	0,07	25.24	0,74	25,24	0,74	24,5
3+0,00	2,56	0,02	50.81	0,98	76,05	1,72	74,33
4+0,00	2,42	0,04	49.80	0,61	125,85	2,33	123,52
5+0,00	2,65	0,01	50.72	0,47	176,57	2,8	173,77
6+0,00	0	0	26.48	0,1	203,05	2,9	200,15
7+0,00	0	0	0.00	0	203,05	2,9	200,15
8+0,00	2,46	0,1	24.63	1,02	227,68	3,93	223,75
9+0,00	2,32	0,1	47.88	2,01	275,56	5,93	269,62
10+0,00	2,57	0,05	48.98	1,48	324,54	7,41	317,13
11+0,00	2,51	0,04	50.88	0,89	375,42	8,3	367,12
12+0,00	0	0	25.15	0,4	400,56	8,7	391,87
12+15,23	0	0	0.00	0	400,56	8,7	391,87
13+0,00	0	0	0.00	0	400,56	8,7	391,87
13+9,94	0	0	0.00	0	400,56	8,7	391,87
14+0,00	0	0	0.00	0	400,56	8,7	391,87
15+0,00	2,63	0,01	26.31	0,05	426,88	8,75	418,13
16+0,00	2,3	0,07	49.33	0,77	476,21	9,52	466,68
17+0,00	2,18	0,15	44.80	2,19	521,01	11,71	509,29
18+0,00	2,28	0,12	44.56	2,72	565,57	14,43	551,14
19+0,00	2,53	0,02	48.04	1,49	613,61	15,92	597,69
20+0,00	0	0	25.27	0,25	638,88	16,17	622,71
20+1,96	0	0	0.00	0	638,88	16,17	622,71
21+0,00	0	0	0.00	0	638,88	16,17	622,71
22+0,00	2,08	0,16	20.82	1,59	659,7	17,76	641,94
23+0,00	2,17	0,13	42.54	2,92	702,23	20,68	681,56
24+0,00	3,16	0,04	53.32	1,73	755,55	22,41	733,14
25+0,00	2,59	0,08	57.53	1,25	813,09	23,66	789,42
26+0,00	0	0	25.94	0,85	839,02	24,51	814,51
26+10,48	0	0	0.00	0	839,02	24,51	814,51
27+0,00	0	0	0.00	0	839,02	24,51	814,51
27+2,57	0	0	0.00	0	839,02	24,51	814,51
28+0,00	1,69	0,34	14.73	2,97	853,75	27,49	826,27
29+0,00	1,9	0,26	35.89	6,02	889,64	33,51	856,13
30+0,00	1,71	0,3	36.10	5,62	925,74	39,13	886,61

  
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Cubação (Método da semissoma das áreas) - RUA WILSON GAMA							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
31+0,00	2,32	0,1	40.36	3,98	966,1	43,11	922,99
32+0,00	2,65	0,03	49.76	1,3	1015,85	44,41	971,45
33+0,00	2,51	0,07	51.58	1	1067,43	45,41	1022,03
34+0,00	2,42	0,13	49.29	1,93	1116,72	47,34	1069,38
34+4,57	2,22	0,13	10.60	0,57	1127,33	47,91	1079,42
35+0,00	2,17	0,17	33.91	2,31	1161,23	50,22	1111,02
36+0,00	2,24	0,16	44.17	3,38	1205,4	53,6	1151,8
37+0,00	2,36	0,12	46.09	2,87	1251,49	56,47	1195,02
37+4,08	2,44	0,09	9.79	0,44	1261,28	56,91	1204,37
38+0,00	2,58	0,05	39.99	1,12	1301,27	58,03	1243,23
39+0,00	2,65	0,08	52.30	1,25	1353,57	59,29	1294,28
40+0,00	2,45	0,07	50.98	1,48	1404,55	60,76	1343,79
41+0,00	2,28	0,13	47.38	1,95	1451,92	62,71	1389,21
41+16,89	2,39	0,12	39.45	2,06	1491,38	64,77	1426,61
42+0,00	2,41	0,1	7.45	0,34	1498,83	65,12	1433,72
43+0,00	2,67	0,02	50.77	1,23	1549,6	66,34	1483,26
43+12,99	3,31	0	38.84	0,14	1588,44	66,48	1521,96
44+0,00	2,6	0,01	20.74	0,03	1609,19	66,51	1542,67
45+0,00	2,72	0	53.22	0,09	1662,4	66,6	1595,8
46+0,00	3,09	0	58.05	0,03	1720,46	66,62	1653,83
47+0,00	2,51	0,05	55.93	0,53	1776,39	67,16	1709,23
47+2,47	2,29	0,1	5.92	0,19	1782,31	67,35	1714,96
48+0,00	2,01	0,17	37.75	2,35	1820,06	69,7	1750,36
49+0,00	2,25	0,03	42.64	2	1862,7	71,71	1791
49+9,10	1,27	0	16.03	0,16	1878,74	71,87	1806,87
50+0,00	1,4	0	14.56	0,01	1893,29	71,88	1821,42
50+12,28	1,71	0	19.13	0	1912,42	71,88	1840,54
51+0,00	1,64	0	12.94	0	1925,36	71,88	1853,48
52+0,00	2,02	0,03	36.53	0,27	1961,88	72,15	1889,73
52+2,63	2,01	0,03	5.28	0,08	1967,17	72,23	1894,94
53+0,00	1,57	0,09	31.03	1,04	1998,2	73,27	1924,92
54+0,00	1,59	0,07	31.59	1,57	2029,79	74,85	1954,94
55+0,00	1,94	0	35.34	0,72	2065,13	75,57	1989,56
55+6,78	2,21	0	14.08	0,01	2079,21	75,57	2003,64

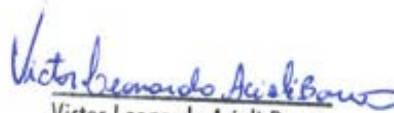
*Victor Leonardo Acioli Barros*  
**Victor Leonardo Acioli Barros**  
 Engenheiro Civil  
 CREA Reg. Nac. Nº 0210384751

Cubação (Método da semissoma das áreas) - RUA D (CID. UNIV.)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0,00	3,75	0,03	0.00	0	0	0	0
1+0,00	3,63	0,02	73.78	0,55	73,78	0,55	73,23
1+2,99	3,73	0,01	11.02	0,05	84,79	0,6	84,2
1+4,79	3,8	0	6.77	0,01	91,57	0,61	90,96
1+6,59	3,91	0	6.93	0,01	98,49	0,61	97,88
2+0,00	4,47	0	56.14	0,03	154,64	0,64	154
2+18,49	4,96	0,2	87.22	1,82	241,86	2,46	239,4
2+19,45	4,86	0,2	4.72	0,19	246,58	2,65	243,93
3+0,00	4,77	0,19	2.62	0,11	249,21	2,76	246,45
3+0,42	4,7	0,19	1.97	0,08	251,18	2,84	248,34
4+0,00	4,16	0,06	86.76	2,45	337,94	5,29	332,66
4+17,10	4,11	0	70.67	0,51	408,61	5,8	402,81
4+19,17	4,13	0	8.54	0	417,15	5,81	411,34
5+0,00	4,14	0	3.42	0	420,57	5,81	414,76
5+1,24	4,15	0	5.16	0	425,73	5,81	419,92
6+0,00	3,94	0,01	75.94	0,15	501,67	5,95	495,72
6+15,48	3,25	0,04	55.65	0,4	557,32	6,36	550,96
6+18,54	3,2	0	9.89	0,06	567,21	6,42	560,79
7+0,00	3,22	0,01	4.68	0,01	571,89	6,43	565,46
7+1,61	3,16	0,02	5.14	0,02	577,03	6,45	570,58
8+0,00	3,51	0,06	61.37	0,78	638,4	7,23	631,17
8+17,06	3,81	0,04	62.47	0,85	700,88	8,08	692,79
8+18,22	3,84	0,03	4.44	0,04	705,31	8,12	697,19
8+19,38	3,89	0,01	4.48	0,02	709,8	8,14	701,65
9+0,00	3,92	0	2.43	0	712,22	8,15	704,08
10+0,00	5,65	0	95.69	0,04	807,91	8,18	799,73
10+1,51	5,06	0	8.08	0	816	8,18	807,82
10+2,10	4,79	0	2.89	0	818,88	8,18	810,7
10+2,68	4,79	0	2.81	0	821,69	8,18	813,51
11+0,00	4,16	0	77.47	0,01	899,16	8,19	890,98
11+19,26	3,88	0,01	77.39	0,06	976,55	8,25	968,3
11+19,50	3,88	0,01	0.95	0	977,5	8,25	969,25
11+19,75	3,87	0,01	0.95	0	978,45	8,25	970,2
12+0,00	3,87	0,01	0.97	0	979,43	8,26	971,17
13+0,00	3,77	0,03	76.37	0,34	1055,8	8,6	1047,2
14+0,00	3,69	0,04	74.53	0,66	1130,33	9,25	1121,07

  
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Cubação (Método da semissoma das áreas) - RUA D (CID. UNIV.)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
15+0,00	3,54	0,06	72.27	0,96	1202,6	10,22	1192,38
16+0,00	3,1	0,12	66.46	1,8	1269,06	12,02	1257,04
17+0,00	3,13	0,11	62.39	2,31	1331,45	14,33	1317,12
18+0,00	3,59	0,02	67.29	1,3	1398,73	15,63	1383,11
18+4,50	3,6	0,02	16.21	0,1	1414,95	15,73	1399,22
18+6,07	3,61	0,02	5.66	0,03	1420,61	15,76	1404,85
18+7,64	3,63	0,02	5.68	0,03	1426,29	15,78	1410,51
19+0,00	3,67	0,01	45.08	0,14	1471,37	15,92	1455,45
20+0,00	3,64	0,01	73.09	0,19	1544,46	16,11	1528,36
21+0,00	5,24	0	88.80	0,13	1633,27	16,23	1617,03
21+6,05	5,95	0	33.81	0	1667,08	16,23	1650,84
21+6,60	6,22	0	3.39	0	1670,46	16,23	1654,23
21+7,16	6,48	0	3.54	0	1674	16,23	1657,76
22+0,00	6,01	0	80.23	0	1754,23	16,23	1738
22+17,09	4,79	0	92.26	0	1846,49	16,23	1830,26
23+0,00	4,6	0	13.66	0	1860,15	16,23	1843,92
23+0,09	4,59	0	0.44	0	1860,58	16,23	1844,35
23+3,10	4,39	0	13.51	0	1874,09	16,23	1857,86
24+0,00	3,61	0,03	67.64	0,22	1941,73	16,45	1925,28
25+0,00	3,32	0,09	69.33	1,17	2011,07	17,62	1993,44
26+0,00	3,38	0,08	66.98	1,73	2078,05	19,36	2058,69
26+16,92	3,67	0	59.60	0,71	2137,65	20,07	2117,58
26+17,22	3,68	0	1.11	0	2138,76	20,07	2118,69
26+17,52	3,69	0	1.11	0	2139,87	20,07	2119,8
27+0,00	3,86	0	9.37	0	2149,24	20,07	2129,17
28+0,00	4,43	0	82.93	0,03	2232,17	20,1	2212,07
29+0,00	4,33	0	87.63	0,02	2319,8	20,12	2299,68
30+0,00	4,22	0	85.53	0,01	2405,33	20,13	2385,19
30+4,89	4,19	0	20.56	0	2425,89	20,13	2405,75
30+5,66	4,18	0	3.22	0	2429,11	20,14	2408,97
30+6,43	4,18	0	3.22	0	2432,32	20,14	2412,19
31+0,00	3,98	0	55.40	0,02	2487,72	20,15	2467,57
32+0,00	3,56	0,07	75.46	0,69	2563,18	20,84	2542,34
32+9,86	4,95	0	41.96	0,33	2605,14	21,17	2583,97

  
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Cubação (Método da semissoma das áreas) - RUA C (CID. UNIV.)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0,00	0	0	0.00	0	0	0	0
1+0,00	0	0	0.00	0	0	0	0
2+0,00	3,31	0,09	33.09	0,93	33,09	0,93	32,16
3+0,00	3,4	0,12	67.05	2,12	100,14	3,05	97,09
4+0,00	3,85	0,02	72.44	1,42	172,57	4,46	168,11
5+0,00	3,51	0,11	73.61	1,3	246,18	5,77	240,42
6+0,00	0	0	35.13	1,08	281,32	6,84	274,47
7+0,00	0	0	0.00	0	281,32	6,84	274,47
8+0,00	4,33	0,02	43.29	0,2	324,6	7,04	317,57
9+0,00	4,32	0,01	86.50	0,26	411,1	7,3	403,8
10+0,00	4,57	0	88.92	0,08	500,02	7,37	492,65
11+0,00	4,68	0	92.47	0,01	592,49	7,39	585,1
12+0,00	4,66	0	93.36	0	685,85	7,39	678,46
13+0,00	4,27	0	89.30	0	775,15	7,39	767,76
13+2,54	4,21	0	10.78	0	785,93	7,39	778,54
14+0,00	3,95	0,03	71.30	0,3	857,23	7,7	849,54
14+0,46	4	0,03	1.82	0,01	859,05	7,71	851,34
15+0,00	4,46	0	82.64	0,28	941,69	7,99	933,7
16+0,00	4,31	0	87.66	0	1029,35	7,99	1021,36
17+0,00	3,98	0	82.93	0,01	1112,28	8	1104,28
18+0,00	4,09	0	80.70	0,02	1192,98	8,03	1184,96
19+0,00	4,4	0	84.82	0,01	1277,81	8,04	1269,77
20+0,00	4,44	0	88.36	0	1366,17	8,04	1358,13
20+15,93	0	0	35.36	0	1401,52	8,04	1393,48
21+0,00	0	0	0.00	0	1401,52	8,04	1393,48
21+4,09	0	0	0.00	0	1401,52	8,04	1393,48
22+0,00	0	0	0.00	0	1401,52	8,04	1393,48
22+12,91	5,61	0	36.23	0	1437,75	8,04	1429,71
23+0,00	5,64	0	39.91	0	1477,66	8,04	1469,62
23+16,53	5,45	0	91.58	0	1569,24	8,04	1561,2
24+0,00	5,39	0	18.82	0	1588,06	8,04	1580,02
25+0,00	4,79	0	101.77	0	1689,83	8,04	1681,78
25+12,34	4,56	0	57.69	0	1747,52	8,04	1739,48
26+0,00	4,27	0	33.80	0	1781,32	8,04	1773,28
27+0,00	0	0	42.67	0	1824	8,04	1815,95

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Cubação (Método da semissoma das áreas) - RUA C (CID. UNIV.)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
27+4,85	0	0	0.00	0	1824	8,04	1815,95
27+17,87	0	0	0.00	0	1824	8,04	1815,95
28+0,00	0	0	0.00	0	1824	8,04	1815,95
29+0,00	3,42	0,06	34.24	0,58	1858,24	8,62	1849,61
29+9,43	3,56	0,03	32.91	0,4	1891,14	9,03	1882,11
30+0,00	3,72	0,01	38.45	0,2	1929,6	9,23	1920,37
31+0,00	4,33	0	80.52	0,11	2010,12	9,33	2000,78
32+0,00	4,33	0	86.59	0,01	2096,71	9,34	2087,37
32+0,93	4,32	0	4.01	0	2100,72	9,34	2091,38
33+0,00	4,54	0	84.45	0	2185,17	9,35	2175,82
34+0,00	0	0	45.36	0	2230,53	9,35	2221,18
34+1,81	0	0	0.00	0	2230,53	9,35	2221,18
34+18,32	0	0	0.00	0	2230,53	9,35	2221,18
35+0,00	0	0	0.00	0	2230,53	9,35	2221,18
36+0,00	3,92	0,01	39.24	0,06	2269,77	9,41	2260,36
36+19,21	3,98	0	75.89	0,08	2345,65	9,49	2336,16
37+0,00	3,98	0	3.14	0	2348,79	9,49	2339,3
38+0,00	4,05	0	80.33	0,05	2429,12	9,54	2419,58
39+0,00	4,09	0	81.36	0,05	2510,48	9,59	2500,89
39+8,78	4,13	0	36.07	0,03	2546,55	9,63	2536,92
40+0,00	4,13	0	46.36	0,04	2592,91	9,66	2583,24
41+0,00	0	0	41.27	0,02	2634,17	9,68	2624,5
41+6,68	0	0	0.00	0	2634,17	9,68	2624,5
42+0,00	0	0	0.00	0	2634,17	9,68	2624,5
43+0,00	4,17	0	41.66	0	2675,83	9,68	2666,15
44+0,00	4,13	0	82.96	0,01	2758,79	9,69	2749,1
44+6,81	4,02	0	27.74	0,01	2786,53	9,7	2776,84
45+0,00	3,61	0,03	50.36	0,22	2836,89	9,91	2826,98
46+0,00	4,4	0	80.17	0,32	2917,07	10,23	2906,84
47+0,00	4,55	0	89.52	0,01	3006,59	10,24	2996,35
47+15,42	4,73	0	71.60	0,02	3078,19	10,26	3067,93
47+18,39	4,62	0,02	13.85	0,03	3092,04	10,29	3081,75
47+19,99	4,46	0,04	7.26	0,05	3099,3	10,34	3088,96
48+0,00	4,44	0,02	0.06	0	3099,37	10,34	3089,03
48+1,49	4,17	0,06	6.40	0,06	3105,77	10,4	3095,37
48+3,51	3,8	0,09	8.06	0,16	3113,83	10,56	3103,27
48+5,33	3,47	0,12	6.60	0,19	3120,43	10,75	3109,68
48+6,61	3,46	0,12	4.44	0,15	3124,87	10,9	3113,97
48+8,75	3,51	0,13	7.46	0,27	3132,33	11,17	3121,16
49+0,00	2,9	0,17	36.08	1,69	3168,41	12,86	3155,54
50+0,00	2,84	0,2	57.35	3,68	3225,76	16,55	3209,21

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Cubação (Método da semissoma das áreas) - RUA C (CID. UNIV.)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
51+0,00	3,05	0,14	58.91	3,38	3284,67	19,92	3264,74
51+9,38	3,12	0,12	28.94	1,24	3313,61	21,16	3292,45
52+0,00	3,29	0,08	34.08	1,08	3347,69	22,24	3325,45
53+0,00	3,21	0,14	65.00	2,19	3412,69	24,43	3388,27
54+0,00	4,21	0	74.19	1,42	3486,89	25,85	3461,04
55+0,00	5,27	0	94.82	0,02	3581,71	25,87	3555,84
56+0,00	5,1	0	103.71	0	3685,42	25,87	3659,55
57+0,00	4,87	0	99.74	0	3785,15	25,87	3759,28
57+3,66	4,79	0	17.69	0	3802,84	25,87	3776,97
58+0,00	4,58	0	76.61	0	3879,45	25,87	3853,57
59+0,00	5,36	0	99.40	0	3978,84	25,87	3952,97
59+6,10	4,64	0	30.47	0	4009,31	25,87	3983,44
60+0,00	4,14	0	61.02	0,02	4070,33	25,89	4044,44
61+0,00	3,71	0,03	78.47	0,34	4148,8	26,23	4122,57
62+0,00	3,85	0,01	75.58	0,37	4224,38	26,6	4197,78
62+16,51	3,96	0	64.47	0,08	4288,85	26,68	4262,17
63+0,00	3,97	0,01	13.85	0,02	4302,7	26,69	4276
64+0,00	4,02	0,01	79.87	0,15	4382,57	26,84	4355,73
65+0,00	3,4	0,09	74.16	1,03	4456,73	27,87	4428,86
65+18,89	3,58	0,06	65.85	1,46	4522,58	29,33	4493,25
66+0,00	3,58	0,06	3.97	0,07	4526,55	29,4	4497,16
67+0,00	3,6	0,05	71.76	1,09	4598,32	30,48	4567,83
68+0,00	3,58	0,04	71.83	0,91	4670,15	31,4	4638,75
68+3,29	3,58	0,04	11.79	0,14	4681,94	31,54	4650,4
69+0,00	3,57	0,03	59.75	0,63	4741,69	32,17	4709,52
70+0,00	3,69	0,06	72.69	0,9	4814,38	33,07	4781,31
70+3,59	4,06	0,11	13.91	0,29	4828,29	33,36	4794,92
70+17,89	2,82	0,41	49.19	3,71	4877,48	37,07	4840,41
71+0,00	2,79	0,29	5.92	0,74	4883,4	37,81	4845,58
72+0,00	3,46	0,09	62.55	3,78	4945,94	41,59	4904,35
72+7,93	3,73	0,05	28.50	0,53	4974,44	42,12	4932,32
73+0,00	3,67	0,05	44.68	0,6	5019,12	42,72	4976,4
73+18,52	3,86	0,03	69.74	0,74	5088,87	43,47	5045,4
74+0,00	3,84	0,03	5.68	0,04	5094,55	43,51	5051,04
74+15,24	3,94	0,03	59.31	0,43	5153,86	43,94	5109,92
75+0,00	4,02	0,04	18.95	0,17	5172,81	44,11	5128,7
76+0,00	3,76	0,01	77.88	0,56	5250,69	44,67	5206,03
77+0,00	4,31	0	80.76	0,13	5331,46	44,8	5286,66
78+0,00	4,33	0	86.37	0,01	5417,83	44,8	5373,02
79+0,00	3,79	0,02	81.21	0,19	5499,03	44,99	5454,04
79+19,68	0	0	37.34	0,18	5536,37	45,17	5491,2

  
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