

ESTADO DE SANTA CATARINA
MUNICÍPIO DE JAGUARUNA
SECRETARIA DE PLANEJAMENTO



OUTUBRO 2021

PROJETO BÁSICO EXECUTIVO DE INFRAESTRUTURA

VOLUME 03 - RELATÓRIO DE TERRAPLENAGEM

LOCAL: JAGUARUNA - OLHOD'ÁGUA

RUA: SÃO MIGUEL 659,82 Metros

RUA: FILOMENA LONN FELISBINO 505,81 Metros

RUA: DOIS 146,39 Metros

EXTENSÃO TOTAL: 1.312,02 Metros





RELATÓRIO DE ALINHAMENTO HORIZONTAL POR ESTACA

RUA SÃO MIGUEL

Estaca	Norte	Este
0+0,000	6820615,4748594	678514,9224240
1+0,000	6820600,6088350	678528,3015614
2+0,000	6820585,7428107	678541,6806989
2+5,129 PC	6820581,9304263	678545,1117719
3+0,000	6820570,7795518	678554,9503590
3+0,312 PT	6820570,5435199	678555,1544305
4+0,000	6820555,6475931	678568,0279667
5+0,000	6820540,5155921	678581,1055257
6+0,000	6820525,3835912	678594,1830846
7+0,000	6820510,2515903	678607,2606436
8+0,000	6820495,1195894	678620,3382026
9+0,000	6820479,9875885	678633,4157615
10+0,000	6820464,8555876	678646,4933205
11+0,000	6820449,7235867	678659,5708794
11+16,721 PI	6820437,0723238	678670,5045053
12+0,000	6820434,5865818	678672,6426346
13+0,000	6820419,4240577	678685,6847918
14+0,000	6820404,2615336	678698,7269489
15+0,000	6820389,0990095	678711,7691061
16+0,000	6820373,9364854	678724,8112632
17+0,000	6820358,7739613	678737,8534204
18+0,000	6820343,6114373	678750,8955776
19+0,000	6820328,4489132	678763,9377347
20+0,000	6820313,2863891	678776,9798919
21+0,000	6820298,1238650	678790,0220490
21+10,332 PI	6820290,2911646	678796,7594041
22+0,000	6820282,9700826	678803,0743548
23+0,000	6820267,8256416	678816,1375056
24+0,000	6820252,6812006	678829,2006563
25+0,000	6820237,5367596	678842,2638070
26+0,000	6820222,3923186	678855,3269578
27+0,000	6820207,2478776	678868,3901085
28+0,000	6820192,1034366	678881,4532592



28+0,638 PC	6820191,6200298	678881,8702318
29+0,000	6820177,0322529	678894,6006817
29+1,433 PT	6820175,9581919	678895,5497758
30+0,000	6820162,0503944	678907,8499801
31+0,000	6820147,0689412	678921,0997371
32+0,000	6820132,0874880	678934,3494941
32+19,822	6820117,2391419	678947,4815297

RELATÓRIO DE ALINHAMENTO HORIZONTAL POR ESTACA

RUA FILOMENA LONN FELISBINO

Estaca	Norte	Este
0+0,000	6820511,2283914	678606,4164609
1+0,000	6820524,3017697	678621,5520738
1+15,422 PC	6820534,3829696	678633,2235131
2+0,000	6820537,3617440	678636,6992044
2+8,779 PT	6820542,9993958	678643,4293077
3+0,000	6820550,1407511	678652,0838840
3+6,762 PC	6820554,4446753	678657,2997903
3+17,615 PT	6820553,6097265	678667,0622765
4+0,000	6820551,8016739	678668,6171910
5+0,000	6820536,6379257	678681,6579249
6+0,000	6820521,4741775	678694,6986587
7+0,000	6820506,3104293	678707,7393926
8+0,000	6820491,1466810	678720,7801265
9+0,000	6820475,9829328	678733,8208604
10+0,000	6820460,8191846	678746,8615942
11+0,000	6820445,6554364	678759,9023281
12+0,000	6820430,4916882	678772,9430620
13+0,000	6820415,3279400	678785,9837958
14+0,000	6820400,1641917	678799,0245297
15+0,000	6820385,0004435	678812,0652636
16+0,000	6820369,8366953	678825,1059975
17+0,000	6820354,6729471	678838,1467313
17+15,062 PC	6820343,2531003	678847,9677321



18+0,000	6820338,7227535	678849,6603381
18+6,071 PT	6820333,3727140	678847,2144039
19+0,000	6820324,3110343	678836,6361793
20+0,000	6820311,2996523	678821,4472380
21+0,000	6820298,2882702	678806,2582967
21+3,061 PC	6820296,2970985	678803,9338864
21+3,129 PT	6820296,2530047	678803,8818168
22+0,000	6820285,4235958	678790,9451189
22+12,243 PC	6820277,5647358	678781,5570075
22+12,296 PT	6820277,5309801	678781,5170387
23+0,000	6820272,5342820	678775,6526896
24+0,000	6820259,5632359	678760,4292878
25+0,000	6820246,5921897	678745,2058861
25+5,806	6820242,8269905	678740,7868794

RELATÓRIO DE ALINHAMENTO HORIZONTAL POR ESTACA

RUA DOIS

Estaca	Norte	Este
0+0,000	6820389,2633835	678615,3307919
1+0,000	6820402,4712788	678630,3491641
1+16,639 PI	6820413,4598577	678642,8440064
2+0,000	6820415,6417543	678645,3999593
3+0,000	6820428,6269526	678660,6112914
3+13,008 PI	6820437,0723238	678670,5045053
4+0,000	6820441,6397777	678675,7989152
5+0,000	6820454,7039964	678690,9424349
6+0,000	6820467,7682151	678706,0859547
7+0,000	6820480,8324338	678721,2294744
7+6,385	6820485,0029148	678726,0637291



RELATÓRIO DE ALINHAMENTO VERTICAL POR ESTACA

RUA SÃO MIGUEL

Estaca	Cota
0+0,000	11,7952623
1+0,000	12,0649761
2+0,000	12,3346898
2+5,129 PC	12,4038578
3+0,000	12,6003937
3+0,312 PT	12,6044224
4+0,000	12,8507092
5+0,000	13,0849420
6+0,000	13,3030919
7+0,000	13,5051591
8+0,000	13,6911436
9+0,000	13,8610453
10+0,000	14,0148642
11+0,000	14,1526004
11+16,721 PI	14,2554121
12+0,000	14,2742538
13+0,000	14,3844962
14+0,000	14,5024946
15+0,000	14,6311904
16+0,000	14,7705837
17+0,000	14,9206745
18+0,000	15,0814629
19+0,000	15,2529487
20+0,000	15,4351321
21+0,000	15,6279344
21+10,332 PI	15,7296669
22+0,000	15,8248679
23+0,000	16,0231147
24+0,000	16,2240799
25+0,000	16,4277637
26+0,000	16,6341664
27+0,000	16,8432878
28+0,000	17,0551279
28+0,638 PC	17,0619346



29+0,000	17,2696868
29+1,433 PT	17,2851677
30+0,000	17,4869644
31+0,000	17,7069608
32+0,000	17,9296760
0+659,82	18,1518053

RELATÓRIO DE ALINHAMENTO VERTICAL POR ESTACA

RUA FILOMENA LONN FELISBINO

Estaca	Cota
0+0,000	13,4098654
1+0,000	13,4782680
1+15,422 PC	13,5310149
2+0,000	13,5466706
2+8,779 PT	13,5766974
3+0,000	13,6153184
3+6,762 PC	13,6400237
3+17,615 PT	13,6827278
4+0,000	13,6926154
5+0,000	13,7826939
6+0,000	13,8855536
7+0,000	14,0011948
8+0,000	14,1296173
9+0,000	14,2708211
10+0,000	14,4248064
11+0,000	14,5915729
12+0,000	14,7711209
13+0,000	14,9632049
14+0,000	15,1594211
15+0,000	15,3556372
16+0,000	15,5518534
17+0,000	15,7480696
17+15,062 PC	15,8958403
18+0,000	15,9442857
18+6,071 PT	15,9969836



19+0,000	15,8898799
20+0,000	15,7360931
21+0,000	15,5823063
21+3,061 PC	15,5587719
21+3,129 PT	15,5582472
22+0,000	15,3718801
22+12,243 PC	15,1866628
22+12,296 PT	15,1858714
23+0,000	15,0693189
24+0,000	14,7667578
25+0,000	14,4641966
0+505,81	14,3763496

RELATÓRIO DE ALINHAMENTO VERTICAL POR ESTACA

RUA DOIS

Estaca	Cota
0+0,000	13,1458286
1+0,000	13,4497921
1+16,639 PI	13,7026807
2+0,000	13,7537555
3+0,000	14,0577190
3+13,008 PI	14,2554121
4+0,000	14,2230133
5+0,000	14,1303434
6+0,000	14,0456163
7+0,000	14,1514896
0+146,38	14,1852875



RELATÓRIO DE CORTE E ATERRO

RUA SÃO MIGUEL

Estacas	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume de Aterro (m ³)	Volume Corte Acum (m ³)	Volume Aterro Acum (m ³)	Volume Líquido (m ³)
0+000.00	1.98	0.00	0.01	0.00	0.00	0.00	0.00
0+020.00	1.65	36.36	0.07	0.80	36.36	0.80	35.56
0+040.00	0.48	21.36	0.17	2.46	57.71	3.26	54.46
0+045.13	0.45	2.40	0.30	1.22	60.11	4.48	55.63
0+052.72	0.62	4.05	0.24	2.08	64.17	6.56	57.61
0+060.00	0.74	4.93	0.25	1.79	69.09	8.35	60.74
0+060.31	0.74	0.23	0.25	0.08	69.32	8.43	60.90
0+080.00	0.66	13.74	0.22	4.57	83.06	13.00	70.07
0+100.00	1.25	19.04	0.20	4.18	102.10	17.18	84.92
0+120.00	3.73	49.76	0.00	2.03	151.86	19.20	132.66
0+140.00	2.98	67.13	0.00	0.01	218.99	19.21	199.78
0+160.00	1.49	44.76	0.01	0.07	263.75	19.28	244.47
0+180.00	0.69	21.78	0.37	3.75	285.53	23.04	262.50
0+200.00	0.13	8.13	1.19	15.59	293.66	38.63	255.04
0+220.00	0.00	1.28	3.64	48.26	294.95	86.89	208.05
0+236.72	0.00	0.00	4.07	64.43	294.95	151.32	143.63
0+240.00	0.00	0.00	3.46	12.34	294.95	163.66	131.28
0+260.00	0.00	0.00	3.96	74.17	294.95	237.83	57.12
0+280.00	0.00	0.00	4.40	83.58	294.95	321.42	-26.47
0+300.00	0.00	0.00	3.47	78.71	294.95	400.13	-105.18
0+320.00	0.01	0.08	2.09	55.55	295.03	455.68	-160.66
0+340.00	0.37	3.77	0.81	28.96	298.80	484.64	-185.84
0+360.00	1.25	16.23	0.02	8.33	315.02	492.97	-177.95
0+380.00	2.63	38.87	0.00	0.23	353.89	493.20	-139.31
0+400.00	3.49	61.23	0.00	0.00	415.12	493.20	-78.08
0+420.00	1.00	44.88	0.39	3.91	460.00	497.11	-37.11
0+430.33	0.66	8.55	0.85	6.39	468.55	503.50	-34.95
0+440.00	0.46	5.41	1.46	11.13	473.96	514.63	-40.67
0+460.00	0.13	5.89	2.05	35.10	479.86	549.74	-69.88
0+480.00	0.00	1.28	3.35	54.00	481.13	603.74	-122.60
0+500.00	0.38	3.82	1.37	47.21	484.95	650.95	-166.00
0+520.00	1.83	22.06	0.07	14.43	507.01	665.38	-158.37
0+540.00	4.37	62.00	0.00	0.70	569.01	666.07	-97.07
0+560.00	8.18	125.55	0.00	0.01	694.56	666.09	28.47
0+560.64	7.99	5.16	0.00	0.00	699.72	666.09	33.63
0+571.04	7.77	81.93	0.00	0.00	781.65	666.09	115.56
0+580.00	8.70	73.81	0.00	0.00	855.46	666.09	189.37
0+581.43	8.63	12.42	0.00	0.00	867.88	666.09	201.79
0+600.00	6.17	137.33	0.00	0.00	1,005.21	666.09	339.12



0+620.00	5.87	120.36	0.00	0.03	1,125.57	666.12	459.45
0+640.00	3.33	91.97	0.40	4.00	1,217.54	670.12	547.42
0+659.82	4.47	77.29	0.38	7.72	1,294.83	677.84	616.99

Estacas	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume de Aterro (m ³)	Volume Corte Acum (m ³)	Volume Aterro Acum (m ³)	Volume Líquido (m ³)
0+000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+045.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+052.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+060.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+236.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+430.33	4.63	23.92	0.00	0.00	23.92	0.00	23.92
0+440.00	0.82	26.33	1.84	8.91	50.25	8.91	41.34
0+460.00	0.00	8.17	0.00	18.42	58.42	27.33	31.09
0+480.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+500.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+520.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+540.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+560.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+560.64	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+571.04	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+580.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+581.43	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+600.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09



0+620.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+640.00	0.00	0.00	0.00	0.00	58.42	27.33	31.09
0+659.82	0.00	0.00	0.00	0.00	58.42	27.33	31.09

Estacas	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume de Aterro (m ³)	Volum Corte Acum (m ³)	Volum Aterro Acum (m ³)	Volume Líquido (m ³)
0+000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+045.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+052.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+060.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+220.00	0.00	0.00	4.08	40.76	40.76	40.76	-40.76
0+236.72	0.00	0.00	5.68	81.57	122.33	122.33	-122.33
0+240.00	0.00	0.00	3.77	15.50	137.83	137.83	-137.83
0+260.00	0.00	0.00	0.00	37.73	175.56	175.56	-175.56
0+280.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+300.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+320.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+340.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+360.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+380.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+400.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+420.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+430.33	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+440.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+460.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+480.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+500.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+520.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+540.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+560.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+560.64	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+571.04	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+580.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+581.43	0.00	0.00	0.00	0.00	175.56	175.56	-175.56



0+600.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+620.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+640.00	0.00	0.00	0.00	0.00	175.56	175.56	-175.56
0+659.82	0.00	0.00	0.00	0.00	175.56	175.56	-175.56

Estaca	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume de Aterro Acum (m ³)	Volum Corte Acum (m ³)	Volum Aterro Acum (m ³)	Volume Líquido (m ³)
0+000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+045.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+052.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+060.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+140.00	3.32	33.19	0.00	0.00	33.19	0.00	33.19
0+160.00	0.00	33.19	0.00	0.00	66.37	0.00	66.37
0+180.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+200.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+220.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+236.72	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+240.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+260.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+280.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+300.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+320.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+340.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+360.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+380.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+400.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+420.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+430.33	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+440.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+460.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+480.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+500.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+520.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+540.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+560.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+560.64	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+571.04	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+580.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37



0+581.43	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+600.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+620.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+640.00	0.00	0.00	0.00	0.00	66.37	0.00	66.37
0+659.82	0.00	0.00	0.00	0.00	66.37	0.00	66.37

RELATÓRIO DE CORTE E ATERRO

RUA FILOMENA

Estacas	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume de Aterro (m ³)	Volume Corte Acum (m ³)	Volume Aterro Acum (m ³)	Volume Líquido (m ³)
0+000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+020.00	3.47	34.66	0.00	0.01	34.66	0.01	34.65
0+035.42	1.60	39.05	0.01	0.06	73.71	0.07	73.65
0+040.00	1.13	6.24	0.05	0.12	79.96	0.19	79.77
0+042.10	0.96	2.20	0.12	0.18	82.16	0.36	81.79
0+048.78	0.55	5.05	0.43	1.84	87.21	2.21	85.00
0+060.00	0.15	3.91	0.94	7.69	91.12	9.90	81.22
0+066.76	0.08	0.77	1.46	8.13	91.89	18.03	73.85
0+072.19	0.04	0.15	2.54	17.05	92.04	35.08	56.96
0+077.62	0.04	0.15	1.04	14.37	92.19	49.45	42.74
0+080.00	0.04	0.10	1.03	2.47	92.28	51.92	40.36
0+100.00	0.03	0.68	1.14	21.73	92.96	73.66	19.31
0+120.00	0.07	0.99	0.93	20.64	93.95	94.30	-0.35
0+140.00	0.35	4.21	0.46	13.85	98.16	108.14	-9.98
0+160.00	0.27	6.23	0.61	10.68	104.39	118.82	-14.43
0+180.00	0.34	6.09	0.55	11.62	110.49	130.44	-19.96
0+200.00	0.48	8.21	0.16	7.15	118.69	137.59	-18.90
0+220.00	0.63	11.15	0.20	3.64	129.84	141.23	-11.39
0+240.00	0.79	14.18	0.13	3.30	144.02	144.53	-0.50
0+260.00	0.71	14.98	0.26	3.89	159.01	148.42	10.59
0+280.00	0.23	9.44	0.64	8.99	168.45	157.41	11.04
0+300.00	0.00	2.34	2.64	32.83	170.79	190.24	-19.45
0+320.00	0.00	0.00	4.35	70.00	170.79	260.23	-89.44
0+340.00	0.00	0.00	3.39	77.43	170.79	337.67	-166.87
0+355.06	0.00	0.00	5.74	68.75	170.79	406.41	-235.62
0+360.00	0.00	0.00	6.99	29.06	170.79	435.47	-264.68
0+360.57	0.00	-0.00	7.24	4.55	170.79	440.02	-269.23
0+366.07	0.00	-0.00	7.81	38.61	170.79	478.63	-307.84
0+380.00	0.00	0.00	4.79	87.76	170.79	566.39	-395.60
0+400.00	0.00	0.00	2.04	68.32	170.79	634.70	-463.91
0+420.00	0.70	7.04	0.30	23.40	177.83	658.10	-480.27
0+423.06	0.91	2.47	0.19	0.74	180.31	658.84	-478.54
0+423.09	0.92	0.03	0.18	0.01	180.34	658.85	-478.51



0+423.13	0.92	0.03	0.18	0.01	180.37	658.86	-478.49
0+440.00	2.08	25.34	0.16	2.88	205.70	661.74	-456.04
0+452.24	2.89	30.47	0.17	2.04	236.17	663.78	-427.61
0+452.27	2.89	0.08	0.17	0.00	236.24	663.79	-427.54
0+452.30	2.90	0.08	0.18	0.00	236.32	663.79	-427.47
0+460.00	3.01	22.76	0.16	1.30	259.08	665.09	-406.01
0+480.00	3.89	69.01	0.01	1.67	328.09	666.76	-338.68
0+500.00	4.03	79.20	0.01	0.14	407.29	666.90	-259.61
0+505.81	0.00	11.70	0.00	0.02	418.99	666.92	-247.93

Estacas	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume de Aterro (m ³)	Volume Corte Acum (m ³)	Volume Aterro Acum (m ³)	Volume Líquido (m ³)
0+000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+035.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+042.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+048.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+066.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+072.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+077.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+160.00	0.12	1.23	0.76	7.61	1.23	7.61	-6.37
0+180.00	0.19	3.09	0.61	13.68	4.32	21.28	-16.96
0+200.00	0.00	1.86	0.00	6.07	6.18	27.35	-21.17
0+220.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+240.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+260.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+280.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+300.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+320.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+340.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+355.06	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+360.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+360.57	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+366.07	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+380.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+400.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+420.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+423.06	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+423.09	0.00	0.00	0.00	0.00	6.18	27.35	-21.17



0+423.13	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+440.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+452.24	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+452.27	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+452.30	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+460.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+480.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+500.00	0.00	0.00	0.00	0.00	6.18	27.35	-21.17
0+505.81	0.00	0.00	0.00	0.00	6.18	27.35	-21.17

RELATÓRIO DE CORTE E ATERRO

RUA DOIS

Estaca	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume de Aterro (m ³)	Volum Corte Acum (m ³)	Volum Aterro Acum (m ³)	Volume Líquido (m ³)
0+000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+020.00	0.42	4.18	0.51	5.10	4.18	5.10	-0.91
0+036.64	0.00	3.48	1.71	18.50	7.67	23.59	-15.93
0+040.00	0.00	0.00	2.03	6.29	7.67	29.89	-22.22
0+060.00	0.00	0.00	3.12	51.51	7.67	81.39	-73.72
0+073.01	0.00	0.01	2.49	36.45	7.68	117.84	-110.17
0+080.00	0.00	0.00	2.49	17.38	7.68	135.22	-127.54
0+100.00	0.05	0.54	1.38	38.66	8.22	173.88	-165.66
0+120.00	0.44	4.94	0.35	17.24	13.16	191.12	-177.97
0+140.00	0.00	4.40	0.00	3.45	17.56	194.57	-177.02
0+146.38	0.00	0.00	0.00	0.00	17.56	194.57	-177.02



NOTA DE SERVIÇO

RUA SÃO MIGUEL

Lado Esquerdo			Eixo						Lado Direito		
TOPO DO PAVIMENTO			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	TOPO DO PAVIMENTO		
Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)
-4.500	11.660	-3.00	0+0.000			11.795	11.795	0.000	4.500	11.660	-3.00
-4.500	11.916	-3.00	1+0.000			12.051	12.035	0.017	4.500	11.916	-3.00
-4.500	12.173	-3.00	2+0.000		PCV	12.308	12.142	0.166	4.500	12.173	-3.00
-4.500	12.238	-3.00	2+5.129	PC		12.373	12.176	0.197	4.500	12.238	-3.00
-4.500	12.334	-3.00	2+12.721			12.469	12.284	0.185	4.500	12.334	-3.00
-4.500	12.424	-3.00	3+0.000			12.559	12.336	0.223	4.500	12.424	-3.00
-4.500	12.428	-3.00	3+0.312	PT		12.563	12.339	0.224	4.500	12.428	-3.00
-4.500	12.661	-3.00	4+0.000			12.796	12.612	0.184	4.500	12.661	-3.00
-4.500	12.881	-3.00	5+0.000			13.016	12.874	0.142	4.500	12.881	-3.00
-4.500	13.085	-3.00	6+0.000			13.220	13.239	-0.019	4.500	13.085	-3.00
-4.500	13.274	-3.00	7+0.000			13.409	13.416	-0.007	4.500	13.274	-3.00
-4.500	13.446	-3.00	8+0.000			13.581	13.512	0.069	4.500	13.446	-3.00
-4.500	13.603	-3.00	9+0.000			13.738	13.609	0.128	4.500	13.603	-3.00
-4.500	13.743	-3.00	10+0.000			13.878	13.665	0.213	4.500	13.743	-3.00
-4.500	13.868	-3.00	11+0.000			14.003	13.589	0.414	4.500	13.868	-3.00
-4.500	13.960	-3.00	11+16.721			14.095	13.646	0.449	4.500	13.960	-3.00
-4.500	13.976	-3.00	12+0.000		PCV	14.111	13.717	0.394	4.500	13.976	-3.00
-4.500	14.075	-3.00	13+0.000			14.210	13.775	0.434	4.500	14.075	-3.00
-4.500	14.184	-3.00	14+0.000			14.319	13.855	0.464	4.500	14.184	-3.00
-4.500	14.309	-3.00	15+0.000			14.444	14.002	0.442	4.500	14.309	-3.00
-4.500	14.448	-3.00	16+0.000			14.583	14.250	0.333	4.500	14.448	-3.00
-4.500	14.602	-3.00	17+0.000			14.737	14.458	0.279	4.500	14.602	-3.00



-4.500	14.771	-3.00	18+0.000			14.906	14.798	0.108	4.500	14.771	-3.00
-4.500	14.955	-3.00	19+0.000			15.090	15.126	-0.036	4.500	14.955	-3.00
-4.500	15.153	-3.00	20+0.000		PTV	15.288	15.416	-0.128	4.500	15.153	-3.00
-4.500	15.366	-3.00	21+0.000			15.501	15.400	0.101	4.500	15.366	-3.00
-4.500	15.478	-3.00	21+10.332			15.613	15.440	0.173	4.500	15.478	-3.00
-4.500	15.584	-3.00	22+0.000		PCV	15.719	15.435	0.283	4.500	15.584	-3.00
-4.500	15.802	-3.00	23+0.000			15.937	15.512	0.425	4.500	15.802	-3.00
-4.500	16.021	-3.00	24+0.000			16.156	15.626	0.531	4.500	16.021	-3.00
-4.500	16.241	-3.00	25+0.000			16.376	15.961	0.415	4.500	16.241	-3.00
-4.500	16.461	-3.00	26+0.000			16.596	16.322	0.274	4.500	16.461	-3.00
-4.500	16.682	-3.00	27+0.000			16.817	16.744	0.072	4.500	16.682	-3.00
-4.500	16.903	-3.00	28+0.000			17.038	17.402	-0.364	4.500	16.903	-3.00
-4.500	16.910	-3.00	28+0.638	PC		17.045	17.408	-0.363	4.500	16.910	-3.00
-4.500	17.025	-3.00	28+11.036			17.160	17.516	-0.356	4.500	17.025	-3.00
-4.500	17.125	-3.00	29+0.000			17.260	17.599	-0.339	4.500	17.125	-3.00
-4.500	17.141	-3.00	29+1.433	PT		17.276	17.611	-0.335	4.500	17.141	-3.00
-4.500	17.348	-3.00	30+0.000			17.483	17.533	-0.050	4.500	17.348	-3.00
-4.500	17.571	-3.00	31+0.000			17.706	17.861	-0.155	4.500	17.571	-3.00
-4.500	17.795	-3.00	32+0.000		PTV	17.930	17.827	0.102	4.500	17.795	-3.00
-4.500	18.017	-3.00	32+19.822			18.152	18.152	0.000	4.500	18.017	-3.00



NOTA DE SERVIÇO
RUA FILOMENA

LADO ESQUERDO			Eixo						LADO DIREITO		
TOPO DO PAVIMENTO			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	TOPO DO PAVIMENTO		
Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)
-4.393	13.346	-3.00	1+0.000			13.478	13.590	-0.111	4.394	13.346	-3.00
-4.000	13.411	-3.00	1+15.422	PC		13.531	13.513	0.018	4.000	13.411	-3.00
-4.000	13.427	-3.00	2+0.000			13.547	13.490	0.057	4.000	13.427	-3.00
-4.000	13.434	-3.00	2+2.101			13.554	13.480	0.074	4.000	13.434	-3.00
-4.000	13.457	-3.00	2+8.779	PT	PCV	13.577	13.453	0.124	4.000	13.457	-3.00
-4.284	13.487	-3.00	3+0.000			13.615	13.437	0.178	4.286	13.487	-3.00
-4.500	13.505	-3.00	3+6.762	PC		13.640	13.423	0.217	4.500	13.505	-3.00
-4.500	13.526	-3.00	3+12.189			13.661	13.433	0.227	4.500	13.526	-3.00
-4.500	13.548	-3.00	3+17.615	PT		13.683	13.452	0.231	4.500	13.548	-3.00
-4.500	13.558	-3.00	4+0.000			13.693	13.462	0.231	4.500	13.558	-3.00
-4.500	13.648	-3.00	5+0.000			13.783	13.546	0.237	4.500	13.648	-3.00
-4.500	13.751	-3.00	6+0.000			13.886	13.653	0.232	4.500	13.751	-3.00
-4.500	13.866	-3.00	7+0.000			14.001	13.837	0.164	4.500	13.866	-3.00
-4.500	13.995	-3.00	8+0.000			14.130	13.944	0.185	4.500	13.995	-3.00
-4.500	14.136	-3.00	9+0.000			14.271	14.103	0.168	4.500	14.136	-3.00
-4.500	14.290	-3.00	10+0.000			14.425	14.252	0.173	4.500	14.290	-3.00
-4.500	14.457	-3.00	11+0.000			14.592	14.411	0.180	4.500	14.457	-3.00
-4.500	14.636	-3.00	12+0.000		PTV	14.771	14.579	0.192	4.500	14.636	-3.00
-4.500	14.828	-3.00	13+0.000			14.963	14.835	0.128	4.500	14.828	-3.00
-4.500	15.024	-3.00	14+0.000			15.159	14.964	0.195	4.500	15.024	-3.00
-4.500	15.221	-3.00	15+0.000			15.356	15.000	0.355	4.500	15.221	-3.00
-4.500	15.417	-3.00	16+0.000			15.552	15.046	0.506	4.500	15.417	-3.00
-4.500	15.613	-3.00	17+0.000			15.748	15.361	0.387	4.500	15.613	-3.00
-4.500	15.761	-3.00	17+15.062	PC		15.896	15.424	0.472	4.500	15.761	-3.00



-4.500	15.809	-3.00	18+0.000			15.944	15.387	0.557	4.500	15.809	-3.00
-4.500	15.815	-3.00	18+0.567			15.950	15.379	0.571	4.500	15.815	-3.00
-4.500	15.862	-3.00	18+6.071	PT		15.997	15.361	0.636	4.500	15.862	-3.00
-4.500	15.755	-3.00	19+0.000			15.890	15.364	0.526	4.500	15.755	-3.00
-4.500	15.601	-3.00	20+0.000			15.736	15.443	0.293	4.500	15.601	-3.00
-4.500	15.447	-3.00	21+0.000			15.582	15.456	0.126	4.500	15.447	-3.00
-4.500	15.424	-3.00	21+3.061	PC		15.559	15.458	0.101	4.500	15.424	-3.00
-4.500	15.424	-3.00	21+3.095			15.559	15.458	0.100	4.500	15.424	-3.00
-4.500	15.423	-3.00	21+3.129	PT		15.558	15.458	0.100	4.500	15.423	-3.00
-4.500	15.237	-3.00	22+0.000			15.372	15.250	0.122	4.500	15.237	-3.00
-4.500	15.052	-3.00	22+12.243	PC		15.187	15.070	0.117	4.500	15.052	-3.00
-4.500	15.051	-3.00	22+12.269			15.186	15.070	0.116	4.500	15.051	-3.00
-4.500	15.051	-3.00	22+12.296	PT		15.186	15.070	0.116	4.500	15.051	-3.00
-4.500	14.934	-3.00	23+0.000			15.069	15.025	0.044	4.500	14.934	-3.00
-4.500	14.632	-3.00	24+0.000			14.767	14.759	0.008	4.500	14.632	-3.00
-4.500	14.329	-3.00	25+0.000			14.464	14.470	-0.005	4.500	14.329	-3.00
-4.500	14.241	-3.00	25+5.806			14.376	14.376	0.000	4.500	14.241	-3.00



NOTA DE SERVIÇO

RUA DOIS

LADO ESQUERDO			Eixo						LADO DIREITO		
TOPO PAVIMENTO			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	TOPO PAVIMENTO		
Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)
-4.500	13.271	-3.00	1+0.000			13.406	13.251	0.154	4.500	13.271	-3.00
-4.500	13.487	-3.00	1+16.639			13.622	13.339	0.283	4.500	13.487	-3.00
-4.500	13.531	-3.00	2+0.000			13.666	13.357	0.309	4.500	13.531	-3.00
-4.500	13.791	-3.00	3+0.000			13.926	13.526	0.400	4.500	13.791	-3.00
-4.500	13.960	-3.00	3+13.008			14.095	13.646	0.449	4.500	13.960	-3.00
-4.500	13.952	-3.00	4+0.000			14.087	13.709	0.377	4.500	13.952	-3.00
-4.500	13.928	-3.00	5+0.000			14.063	13.803	0.261	4.500	13.928	-3.00
-4.500	13.911	-3.00	6+0.000			14.046	13.886	0.159	4.500	13.911	-3.00
-4.500	14.016	-3.00	7+0.000			14.151	13.992	0.160	4.500	14.016	-3.00
-4.500	14.050	-3.00	7+6.385			14.185	14.005	0.180	4.500	14.050	-3.00