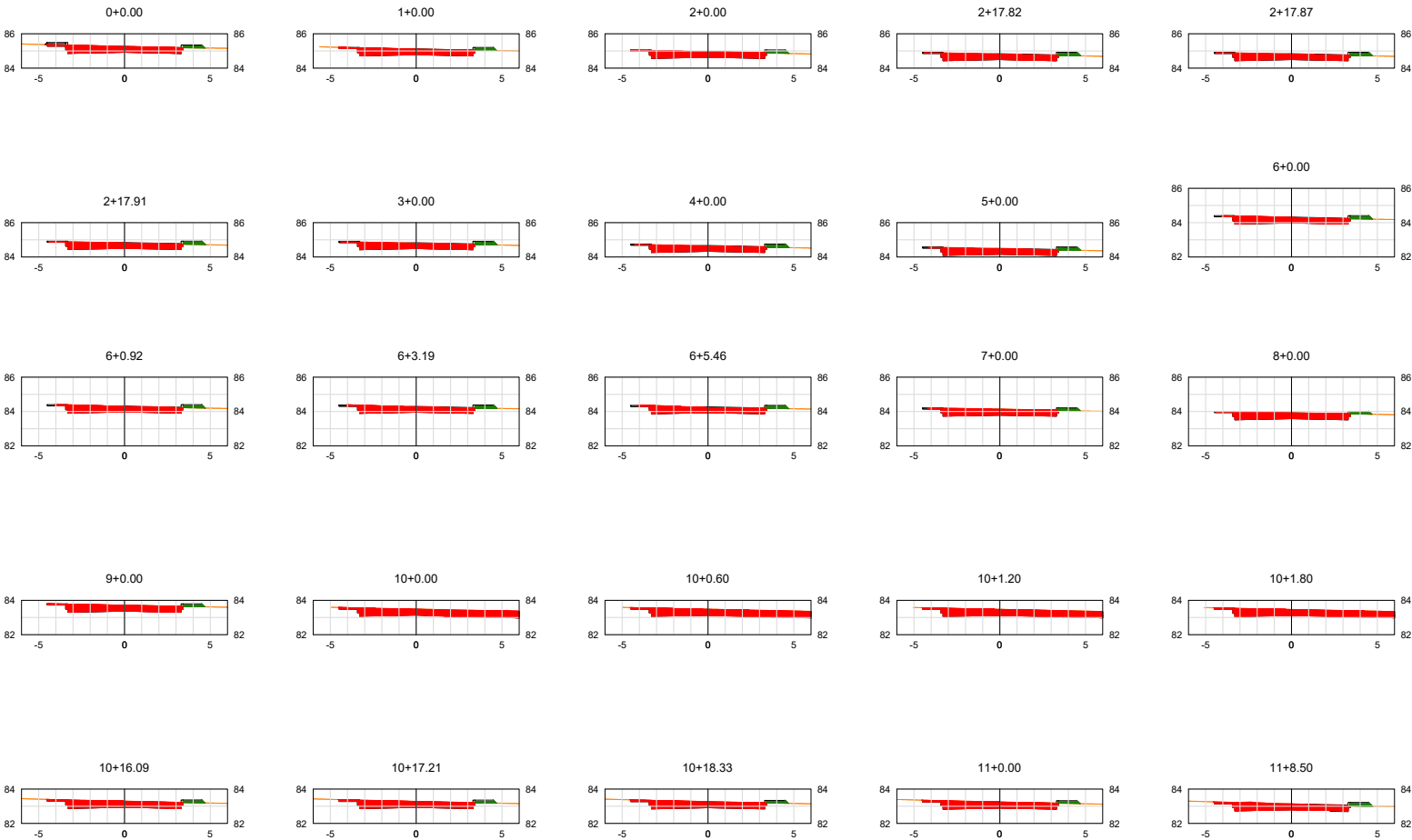
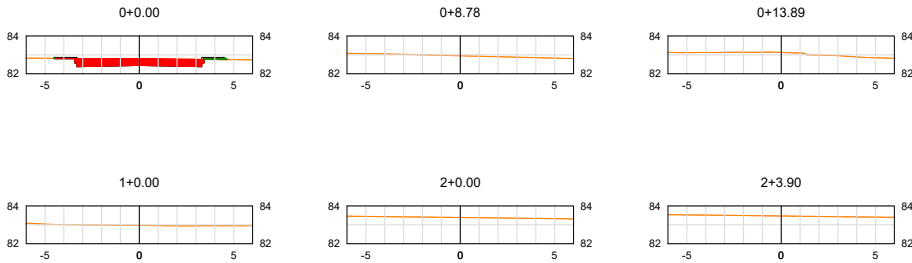


SEÇÕES TRANSVERSAIS
RUA D (LOTEAMENTO SÃO LUIS)
ESC.: 1/200



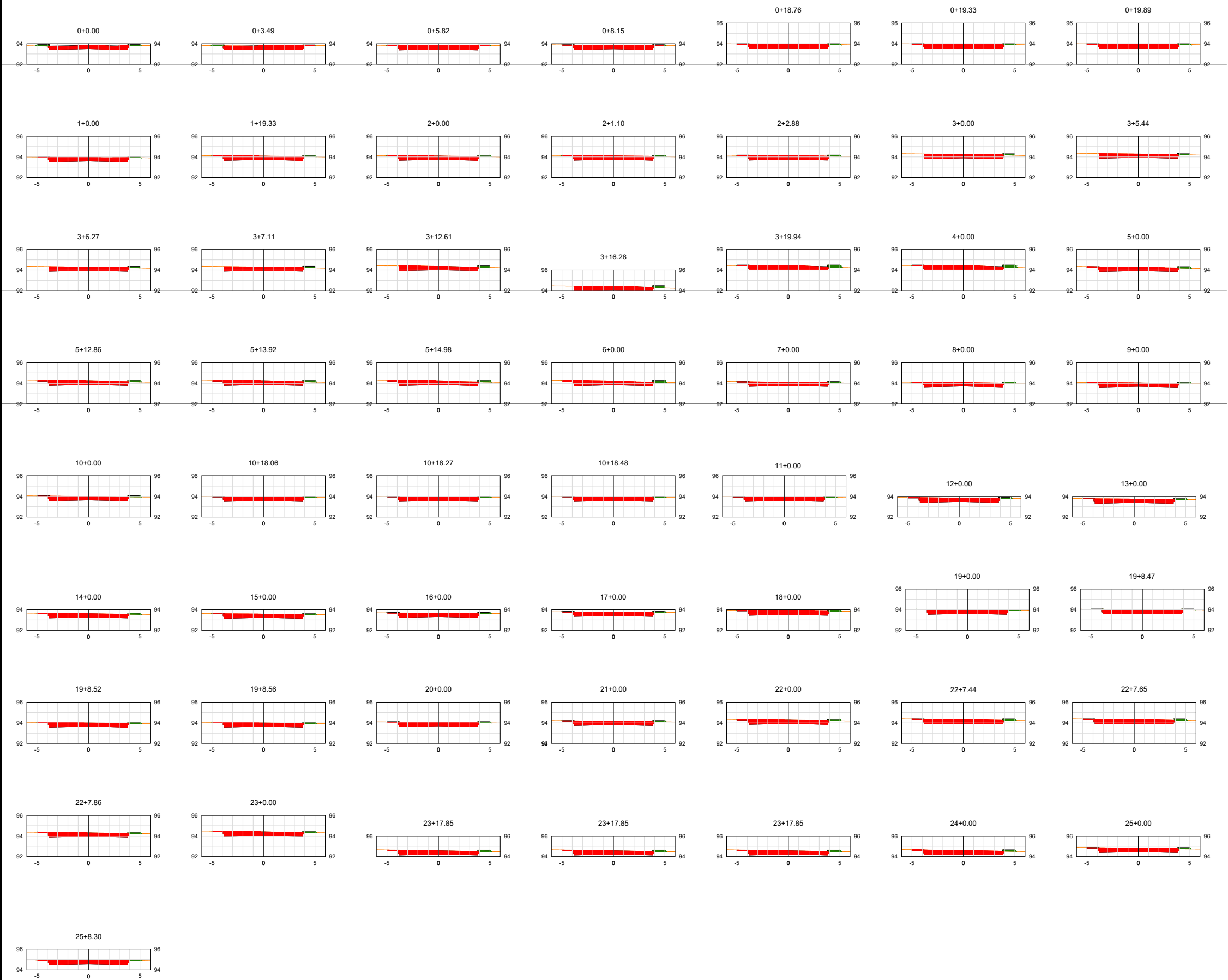
SEÇÕES TRANSVERSAIS
RUA J (LOTEAMENTO SÃO LUIS)
ESC.: 1/200



Mapa de cubação (Método da semissoma das áreas) - RUA D (LOT. SÃO LUIS)							
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	2,60	0,12	0,00	0,00	0,00	0,00	0,00
1+0,00	2,55	0,11	51,46	2,34	51,46	2,34	49,12
2+0,00	2,45	0,15	50,03	2,60	101,49	4,94	96,55
2+17,82	2,39	0,16	43,14	2,68	144,62	7,62	137,01
2+17,87	2,39	0,16	0,11	0,01	144,73	7,62	137,11
2+17,91	2,39	0,16	0,11	0,01	144,84	7,63	137,21
3+0,00	2,38	0,16	4,97	0,33	149,81	7,96	141,86
4+0,00	2,36	0,16	47,36	3,13	197,18	11,08	186,09
5+0,00	2,43	0,14	47,84	3,00	245,02	14,08	230,94
6+0,00	2,45	0,15	48,81	2,93	293,83	17,01	276,82
6+0,92	2,45	0,15	2,25	0,14	296,08	17,14	278,93
6+3,19	2,44	0,14	5,55	0,33	301,63	17,47	284,15
6+5,46	2,39	0,14	5,49	0,32	307,11	17,79	289,32
7+0,00	2,60	0,12	36,30	1,87	343,42	19,66	323,76
8+0,00	2,56	0,11	51,65	2,26	395,06	21,92	373,14
9+0,00	2,61	0,11	51,76	2,16	446,83	24,09	422,74
10+0,00	3,73	0,00	63,39	1,08	510,22	25,16	485,06
10+0,60	3,69	0,00	2,23	0,00	512,45	25,16	487,29
10+1,20	3,65	0,00	2,19	0,00	514,65	25,16	489,49
10+1,80	3,62	0,00	2,17	0,00	516,82	25,16	491,66
10+16,09	2,69	0,11	45,13	0,78	561,96	25,94	536,02
10+17,21	2,70	0,11	3,01	0,12	564,97	26,06	538,91
10+18,33	2,70	0,11	3,01	0,12	567,98	26,18	541,80
11+0,00	2,71	0,11	4,52	0,18	572,50	26,36	546,15
11+8,50	2,59	0,18	22,52	1,20	595,02	27,56	567,46

LEGENDA:	
	PROJEÇÃO DA SUPERFÍCIE DE TERRAPLENAGEM
	PROJEÇÃO DA SUPERFÍCIE DO TERRENO NATURAL
	CONTORNO DAS ESTRUTURAS DO PAVIMENTO
	PROJEÇÃO DE REGIÕES SUEITAS A ATERRO
	PROJEÇÃO DE REGIÕES SUEITAS A CORTE

Mapa de cubação (Método da semissoma das áreas) - RUA J (LOT. SÃO LUIS)							
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	2,53	0,06	0,00	0,00	0,00	0,00	0,00
0+8,78	0,00	0,00	11,11	0,24	11,11	0,24	10,87
0+13,89	0,00	0,00	0,00	0,00	11,11	0,24	10,87
1+0,00	0,00	0,00	0,00	0,00	11,11	0,24	10,87
2+0,00	0,00	0,00	0,00	0,00	11,11	0,24	10,87
2+3,90	0,00	0,00	0,00	0,00	11,11	0,24	10,87

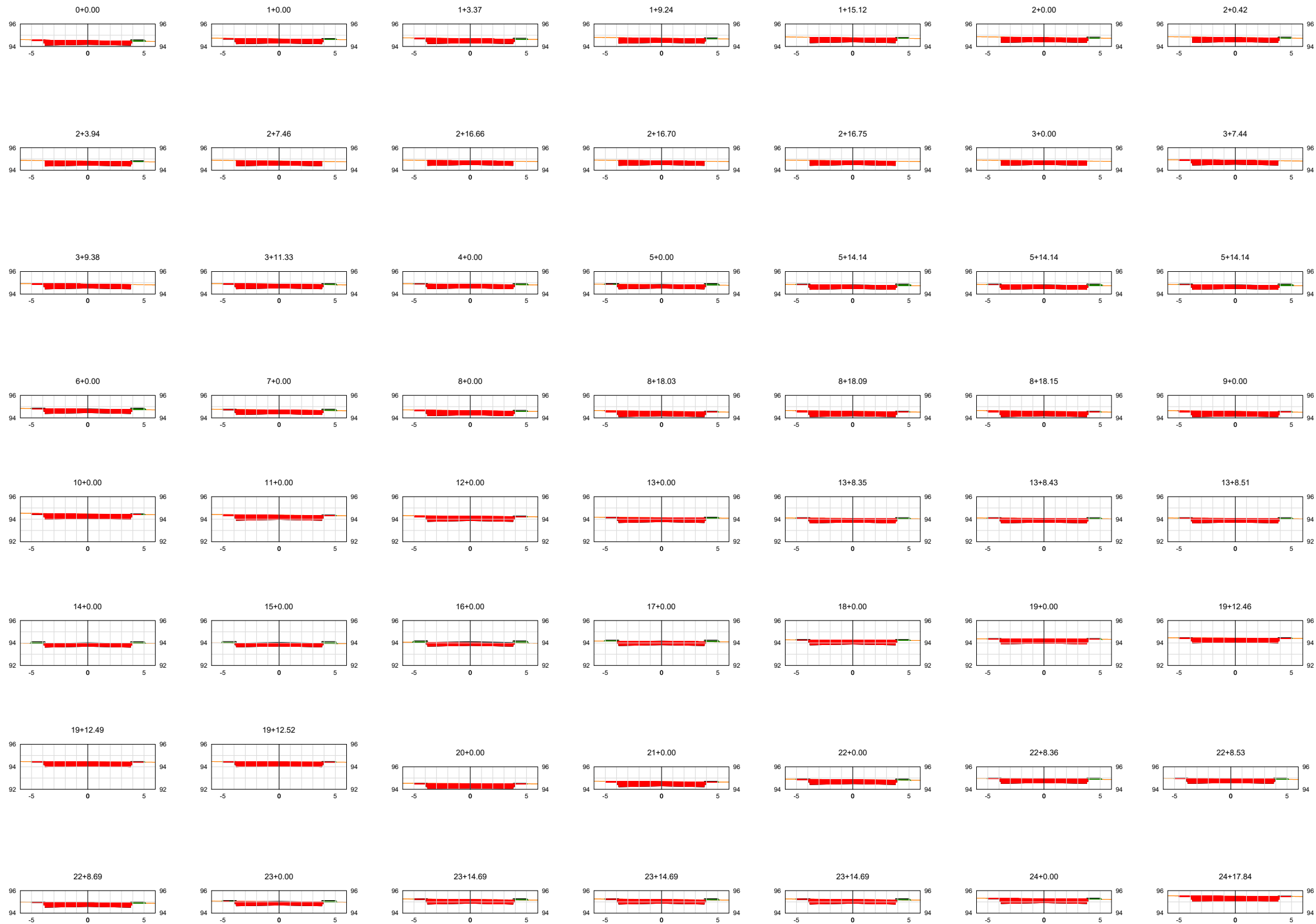


Mapa de cubação (Método da semissoma das áreas) - RUA JAQUELINE SEVERO

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volum. de Corte (m³)	Volum. de Aterro (m³)	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)	Volum. Líquido (m³)
0+0.00	2,63	0,00	0,00	0,00	0,00	0,00	0,00
0+3.49	2,94	0,00	9,72	0,00	9,72	0,00	9,72
0+5.82	3,15	0,00	7,08	0,00	16,80	0,00	16,80
0+8.15	3,04	0,00	7,20	0,00	24,01	0,00	24,01
0+18.76	3,03	0,00	32,24	0,00	56,25	0,00	56,25
0+19.33	3,03	0,00	1,72	0,00	57,97	0,00	57,97
0+19.89	3,03	0,00	1,72	0,00	59,68	0,00	59,68
1+0.00	3,03	0,00	0,32	0,00	60,00	0,00	60,00
1+19.33	3,04	0,00	58,64	0,00	118,64	0,00	118,64
2+0.00	3,03	0,00	2,03	0,00	120,67	0,00	120,67
2+1.10	3,04	0,00	3,35	0,00	124,02	0,00	124,02
2+2.88	3,03	0,00	5,37	0,00	129,40	0,00	129,40
3+0.00	2,98	0,00	51,43	0,00	180,83	0,00	180,83
3+5.44	2,96	0,00	16,13	0,00	196,96	0,00	196,96
3+6.27	2,94	0,00	2,47	0,00	199,43	0,00	199,43
3+7.11	2,94	0,00	2,46	0,00	201,89	0,00	201,89
3+12.61	2,97	0,00	16,27	0,00	218,17	0,00	218,17
3+16.28	2,95	0,00	10,85	0,00	229,01	0,00	229,01
3+19.94	3,01	0,00	10,93	0,00	239,94	0,00	239,94
4+0.00	3,01	0,00	0,18	0,00	240,12	0,00	240,12
5+0.00	3,09	0,00	61,00	0,00	301,12	0,00	301,12
5+12.86	3,08	0,00	39,62	0,00	340,74	0,00	340,74
5+13.92	3,08	0,00	3,26	0,00	344,00	0,00	344,00
5+14.98	3,08	0,00	3,26	0,00	347,26	0,00	347,26
6+0.00	3,07	0,00	15,45	0,00	362,71	0,00	362,71
7+0.00	3,05	0,00	61,22	0,00	423,93	0,00	423,93
8+0.00	3,03	0,00	60,80	0,00	484,73	0,00	484,73
9+0.00	3,03	0,00	60,58	0,00	545,31	0,00	545,31
10+0.00	3,03	0,00	60,55	0,00	605,86	0,00	605,86
10+18.06	3,03	0,00	54,66	0,00	660,53	0,00	660,53
10+18.27	3,03	0,00	0,62	0,00	661,15	0,00	661,15
10+18.48	3,03	0,00	0,62	0,00	661,77	0,00	661,77
11+0.00	3,03	0,00	4,62	0,00	666,39	0,00	666,39
12+0.00	3,02	0,00	60,45	0,00	726,84	0,00	726,84
13+0.00	3,02	0,00	60,34	0,00	787,18	0,00	787,18
14+0.00	3,04	0,00	60,59	0,00	847,77	0,00	847,77
15+0.00	3,01	0,00	60,50	0,00	908,27	0,00	908,27
16+0.00	2,99	0,00	59,96	0,00	968,23	0,00	968,23
17+0.00	2,99	0,00	59,78	0,00	1028,01	0,00	1028,01
18+0.00	3,00	0,00	59,90	0,00	1087,91	0,00	1087,91
19+0.00	3,03	0,00	60,26	0,00	1148,17	0,00	1148,17
19+8.47	3,03	0,00	25,64	0,00	1173,80	0,00	1173,80
19+8.52	3,03	0,00	0,14	0,00	1173,94	0,00	1173,94
19+8.56	3,03	0,00	0,14	0,00	1174,08	0,00	1174,08
20+0.00	3,03	0,00	34,60	0,00	1208,68	0,00	1208,68
21+0.00	3,04	0,00	60,65	0,00	1269,33	0,00	1269,33
22+0.00	3,05	0,00	60,94	0,00	1330,27	0,00	1330,27
22+7.44	3,05	0,00	22,71	0,00	1352,98	0,00	1352,98
22+7.65	3,05	0,00	0,63	0,00	1353,62	0,00	1353,62
22+7.86	3,05	0,00	0,63	0,00	1354,25	0,00	1354,25
23+0.00	3,08	0,00	37,23	0,00	1391,48	0,00	1391,48
23+17.85	3,09	0,00	55,10	0,00	1446,58	0,00	1446,58
23+17.85	3,09	0,00	0,01	0,00	1446,59	0,00	1446,59
23+17.85	3,09	0,00	0,01	0,00	1446,60	0,00	1446,60
24+0.00	3,09	0,00	6,64	0,00	1453,23	0,00	1453,23
25+0.00	3,07	0,00	61,66	0,00	1514,89	0,00	1514,89
25+8.30	2,97	0,00	25,07	0,00	1539,96	0,00	1539,96

LEGENDA:	
	PROJEÇÃO DA SUPERFÍCIE DE TERRAPLENAGEM
	PROJEÇÃO DA SUPERFÍCIE DO TERRENO NATURAL
	CONTORNO DAS ESTRUTURAS DO PAVIMENTO
	PROJEÇÃO DE REGIÕES SUJEITAS A ATERRO
	PROJEÇÃO DE REGIÕES SUJEITAS A CORTE

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

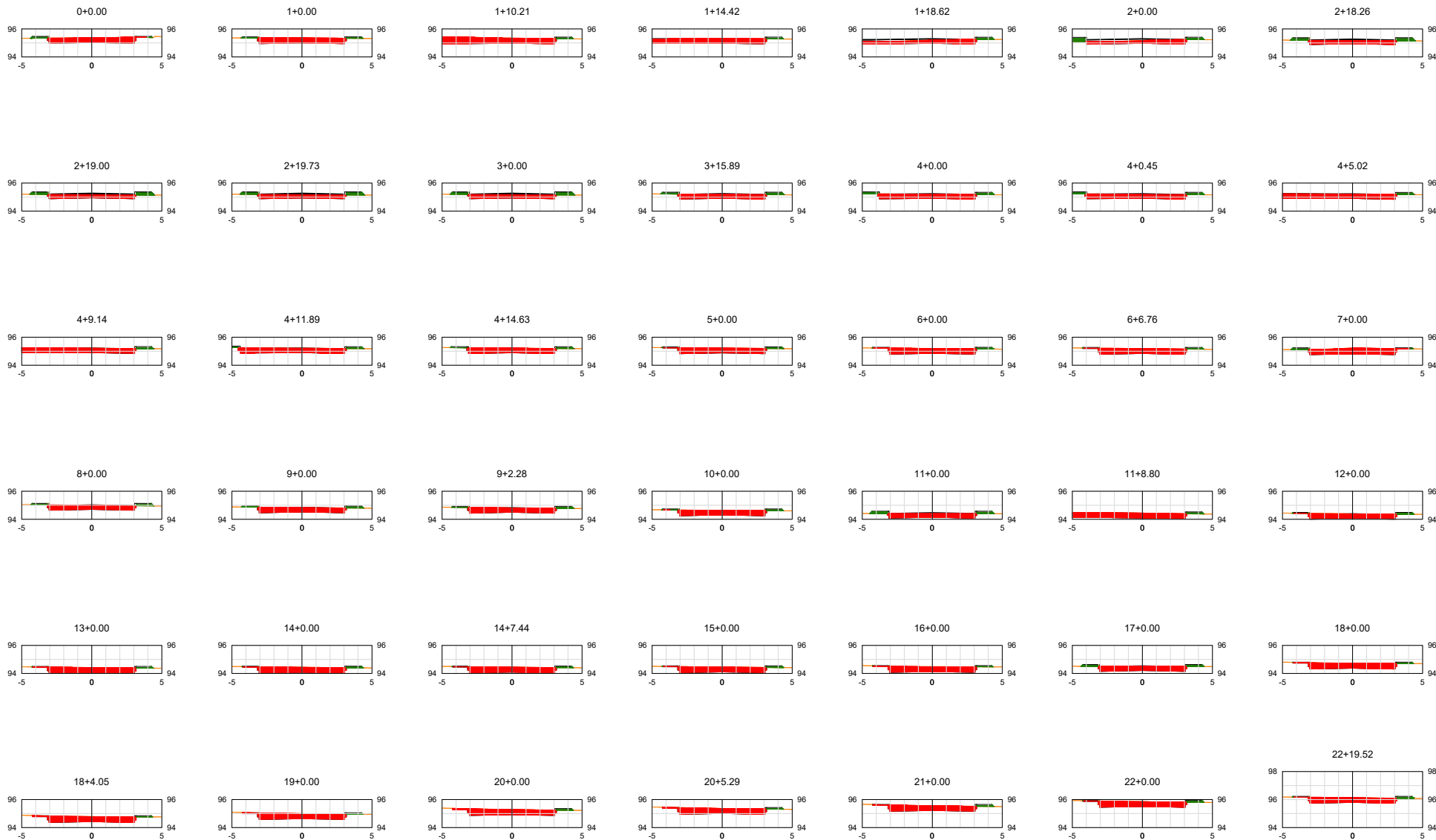


Mapa de cubação (Método da semissoma das áreas) - RUA EVERTON ESTEVES						
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volum. de Corte (m³)	Volum. de Aterro (m³)	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)
0+0.00	2.95	0.08	0.00	0.00	0.00	0.00
1+0.00	3.21	0.04	61.61	1.14	61.61	1.14
1+3.37	3.26	0.03	10.89	0.12	72.50	1.26
1+9.24	3.18	0.02	18.91	0.16	91.41	1.42
1+15.12	3.18	0.02	18.69	0.12	110.11	1.55
2+0.00	3.13	0.03	15.42	0.12	125.53	1.66
2+0.42	3.13	0.03	1.30	0.01	126.83	1.67
2+3.94	3.10	0.03	10.97	0.10	137.80	1.78
2+7.46	3.02	0.00	10.77	0.06	148.58	1.83
2+16.66	2.88	0.00	27.13	0.00	175.70	1.83
2+16.70	2.88	0.00	0.13	0.00	175.83	1.83
2+16.75	2.88	0.00	0.13	0.00	175.96	1.83
3+0.00	2.85	0.00	9.32	0.00	185.27	1.83
3+7.44	3.14	0.00	22.29	0.00	207.56	1.83
3+9.38	3.09	0.00	6.05	0.00	213.62	1.83
3+11.33	3.06	0.05	5.98	0.05	219.59	1.88
4+0.00	2.82	0.07	25.52	0.56	245.11	2.45
5+0.00	2.69	0.09	55.15	1.67	300.26	4.11
5+14.14	2.74	0.10	38.42	1.34	338.68	5.45
5+14.14	2.74	0.10	0.00	0.00	338.68	5.45
5+14.14	2.74	0.10	0.00	0.00	338.68	5.45
6+0.00	2.77	0.09	16.14	0.56	354.82	6.02
7+0.00	2.97	0.07	57.40	1.63	412.22	7.64
8+0.00	3.32	0.02	62.91	0.93	475.13	8.57
8+18.03	3.63	0.00	62.66	0.24	537.79	8.81
8+18.09	3.63	0.00	0.21	0.00	538.00	8.81
8+18.15	3.63	0.00	0.21	0.00	538.20	8.81
9+0.00	3.64	0.00	6.72	0.00	544.93	8.82
10+0.00	3.46	0.00	70.96	0.05	615.91	8.87
11+0.00	3.45	0.00	69.09	0.05	684.99	8.92
12+0.00	3.46	0.00	69.12	0.04	754.11	8.96
13+0.00	3.14	0.02	66.02	0.22	820.13	9.19
13+8.35	2.96	0.04	25.45	0.25	845.58	9.44
13+8.43	2.96	0.04	0.23	0.00	845.81	9.45
13+8.51	2.95	0.04	0.23	0.00	846.04	9.45
14+0.00	2.30	0.13	30.20	1.00	876.24	10.45
15+0.00	2.28	0.21	45.83	3.47	922.07	13.92
16+0.00	2.21	0.23	44.88	4.47	966.94	18.39
17+0.00	2.59	0.12	47.93	3.51	1014.87	21.90
18+0.00	3.02	0.02	56.08	1.42	1070.95	23.32
19+0.00	3.15	0.00	61.72	0.27	1132.66	23.59
19+12.46	3.26	0.00	39.89	0.03	1172.56	23.63
19+12.49	3.26	0.00	0.10	0.00	1172.66	23.63
19+12.52	3.26	0.00	0.10	0.00	1172.76	23.63
20+0.00	3.44	0.00	25.07	0.01	1197.83	23.64
21+0.00	3.38	0.00	68.24	0.03	1266.06	23.66
22+0.00	3.05	0.04	64.32	0.42	1330.38	24.08
22+8.36	2.89	0.06	24.82	0.44	1355.20	24.52
22+8.53	2.88	0.06	0.48	0.01	1355.68	24.53
22+8.69	2.88	0.06	0.48	0.01	1356.16	24.54
23+0.00	2.64	0.10	31.19	0.94	1387.35	25.48
23+14.69	2.97	0.05	41.22	1.13	1428.58	26.60
23+14.69	2.97	0.05	0.00	0.00	1428.58	26.60
23+14.69	2.97	0.05	0.00	0.00	1428.58	26.60
24+0.00	3.09	0.04	16.11	0.24	1444.69	26.85
24+17.84	3.47	0.00	58.50	0.35	1503.19	27.19

LEGENDA:

- PROJEÇÃO DA SUPERFÍCIE DE TERRAPLENAGEM
- PROJEÇÃO DA SUPERFÍCIE DO TERRENO NATURAL
- CONTORNO DAS ESTRUTURAS DO PAVIMENTO
- PROJEÇÃO DE REGIÕES SUJEITAS A ATERRRO
- PROJEÇÃO DE REGIÕES SUJEITAS A CORTE

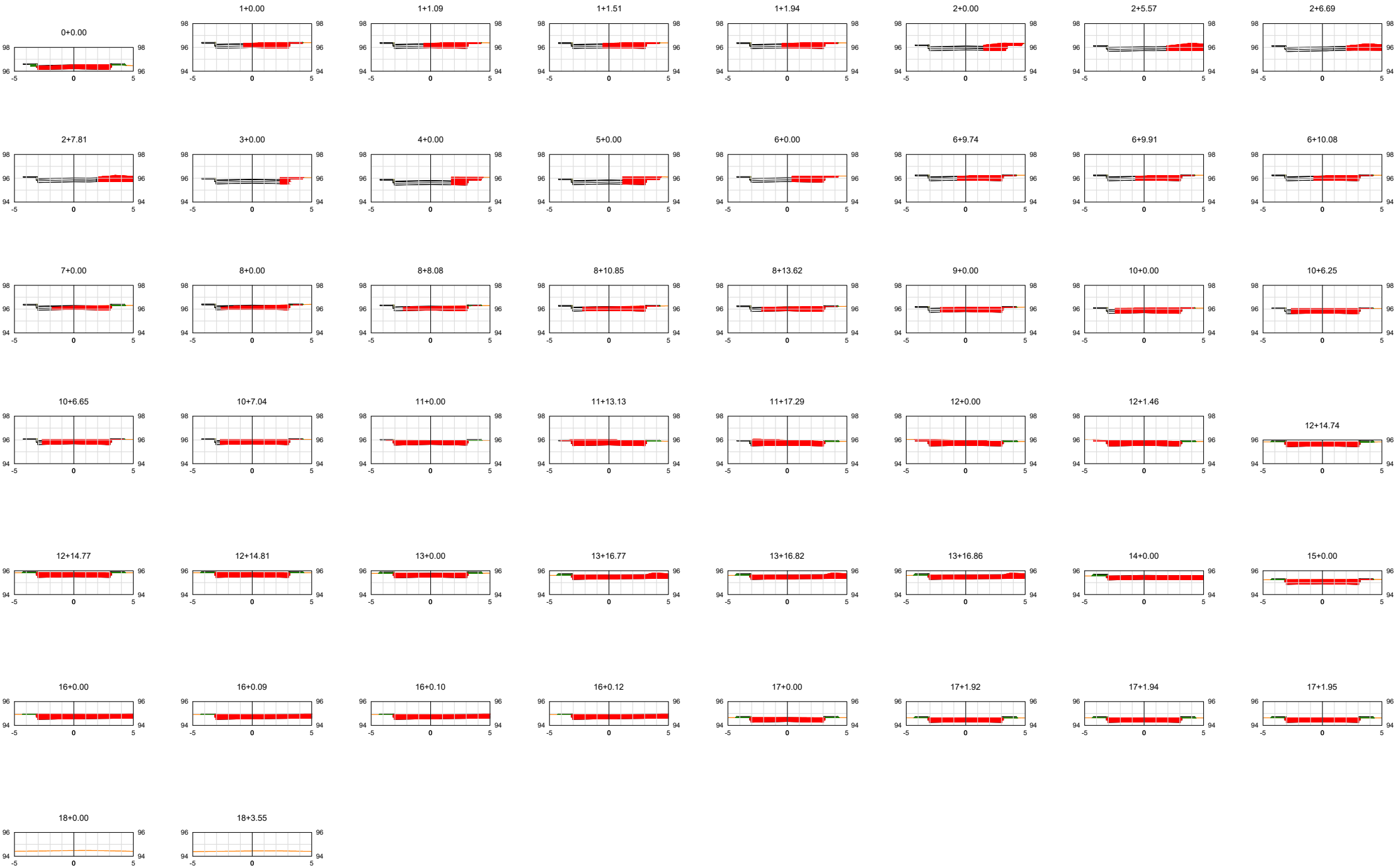
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CREA Reg. Nac. Nº 0210384751



Mapa de cubação (Método da semissoma das áreas) - RUA DO LOT. BETEL							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volum. de Corte (m³)	Volum. de Aterro (m³)	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)	Volum. Líquido (m³)
0+0,00	2,30	0,08	0,00	0,00	0,00	0,00	0,00
1+0,00	2,34	0,06	46,36	1,47	46,36	1,47	44,89
1+10,21	3,29	0,06	28,73	0,66	75,09	2,13	72,97
1+14,42	2,67	0,07	12,53	0,29	87,62	2,41	85,21
1+18,62	1,86	0,10	9,51	0,37	97,13	2,79	94,35
2+0,00	1,56	0,32	2,35	0,29	99,48	3,08	96,41
2+18,26	1,58	0,33	28,66	5,97	128,14	9,05	119,09
2+19,00	1,59	0,33	1,17	0,24	129,31	9,29	120,02
2+19,73	1,60	0,32	1,17	0,24	130,48	9,53	120,95
3+0,00	1,61	0,32	0,43	0,09	130,92	9,62	121,30
3+15,89	1,87	0,22	27,60	4,26	158,51	13,88	144,63
4+0,00	2,15	0,20	8,27	0,86	166,78	14,74	152,04
4+0,45	2,21	0,19	0,99	0,09	167,78	14,83	152,94
4+5,02	2,58	0,11	10,95	0,68	178,72	15,51	163,21
4+9,14	2,72	0,09	10,93	0,41	189,65	15,92	173,73
4+11,89	2,66	0,10	7,39	0,26	197,04	16,18	180,85
4+14,63	2,26	0,08	6,75	0,24	203,79	16,42	187,37
5+0,00	2,33	0,06	12,32	0,39	216,11	16,81	199,30
6+0,00	2,36	0,06	46,89	1,28	263,00	18,09	244,91
6+6,76	2,37	0,06	15,99	0,43	278,99	18,52	260,47
7+0,00	2,52	0,07	32,39	0,92	311,39	19,45	291,94
8+0,00	2,04	0,16	45,53	2,36	356,92	21,81	335,11
9+0,00	2,13	0,11	41,71	2,74	398,63	24,55	374,08
9+2,28	2,17	0,10	4,91	0,25	403,54	24,79	378,75
10+0,00	2,22	0,08	38,88	1,59	442,42	26,39	416,03
11+0,00	1,77	0,25	39,95	3,33	482,37	29,71	452,65
11+8,80	2,80	0,09	20,13	1,53	502,49	31,24	471,25
12+0,00	2,23	0,08	28,16	0,96	530,66	32,20	498,45
13+0,00	2,44	0,05	46,68	1,31	577,33	33,52	543,82
14+0,00	2,42	0,06	48,53	1,09	625,86	34,61	591,26
14+7,44	2,40	0,06	17,93	0,42	643,80	35,03	608,77
15+0,00	2,35	0,06	29,86	0,76	673,65	35,79	637,87
16+0,00	2,42	0,03	47,73	0,95	721,38	36,74	684,64
17+0,00	2,04	0,18	44,64	2,06	766,02	38,80	727,23
18+0,00	2,47	0,03	45,10	2,08	811,13	40,88	770,25
18+4,05	2,57	0,02	10,20	0,10	821,32	40,98	780,35
19+0,00	2,54	0,04	40,80	0,48	862,12	41,45	820,67
20+0,00	2,55	0,05	50,90	0,98	913,02	42,43	870,59
20+5,29	2,55	0,06	13,47	0,31	926,49	42,74	883,75
21+0,00	2,40	0,08	36,33	1,04	962,82	43,78	919,04
22+0,00	2,35	0,08	47,45	1,61	1010,27	45,39	964,88
22+19,52	2,30	0,09	45,40	1,63	1055,67	47,02	1008,65

LEGENDA:	
	PROJEÇÃO DA SUPERFÍCIE DE TERRAPLENAGEM
	PROJEÇÃO DA SUPERFÍCIE DO TERRENO NATURAL
	CONTORNO DAS ESTRUTURAS DO PAVIMENTO
	PROJEÇÃO DE REGIÕES SUJEITAS A ATERRO
	PROJEÇÃO DE REGIÕES SUJEITAS A CORTE

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CREA Reg. Nac. Nº 0210384751

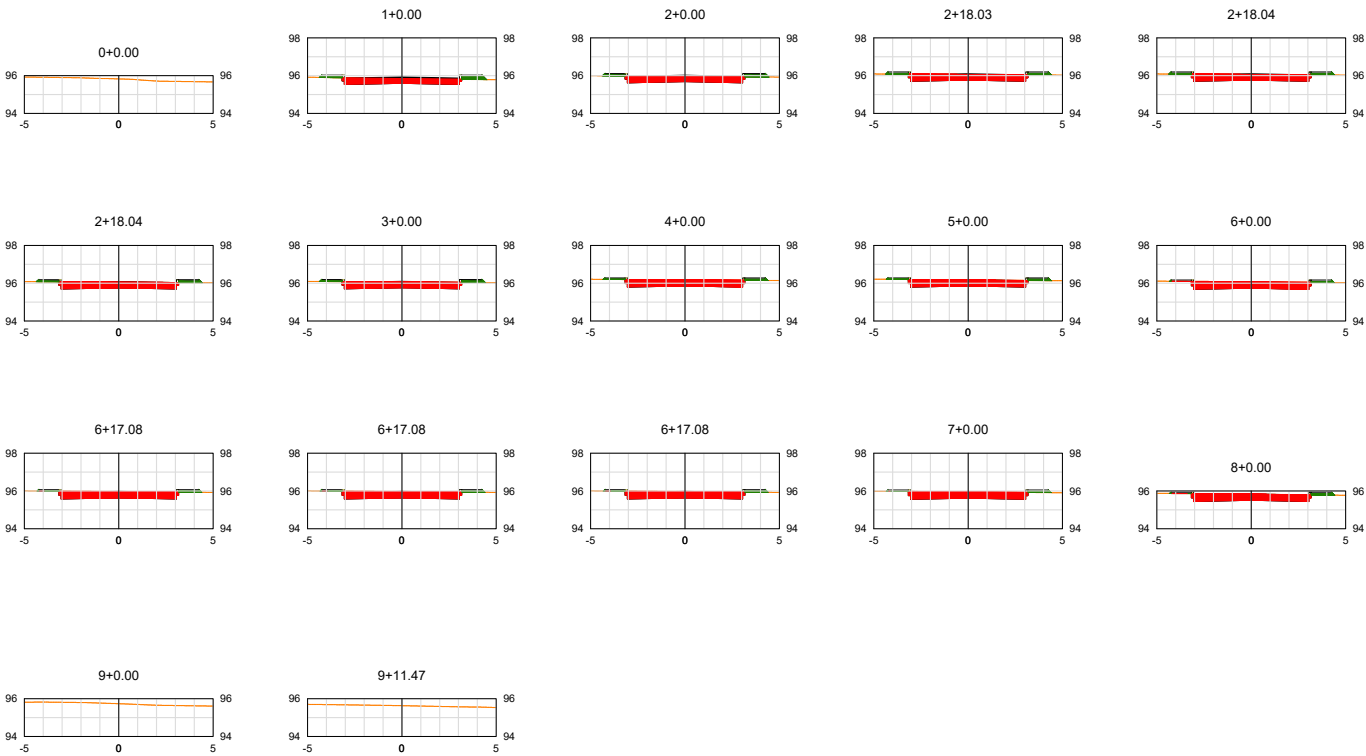


Mapa de cubação (Método da semissoma das áreas) - RUA C (LOT. BETEL)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volum. de Corte (m³)	Volum. de Aterro (m³)	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)	Volum. Líquido (m³)
0+0,00	2,11	0,11	0,00	0,00	0,00	0,00	0,00
1+0,00	1,69	0,00	38,04	1,09	38,04	1,09	36,94
1+1,09	1,64	0,00	1,81	0,00	39,85	1,09	38,76
1+1,51	1,62	0,00	0,69	0,00	40,54	1,09	39,45
1+1,94	1,60	0,00	0,68	0,00	41,23	1,09	40,13
2+0,00	1,32	0,00	26,43	0,00	67,66	1,09	66,56
2+5,57	1,59	0,00	8,12	0,00	75,78	1,09	74,69
2+6,69	1,40	0,00	1,67	0,00	77,45	1,09	76,36
2+7,81	1,34	0,00	1,53	0,00	78,99	1,09	77,89
3+0,00	0,54	0,00	11,51	0,00	90,50	1,09	89,40
4+0,00	1,20	0,00	17,40	0,00	107,89	1,09	106,80
5+0,00	1,53	0,00	27,23	0,00	135,12	1,09	134,02
6+0,00	1,44	0,00	29,72	0,00	164,84	1,09	163,74
6+9,74	1,54	0,00	14,52	0,00	179,35	1,10	178,26
6+9,91	1,53	0,00	0,26	0,00	179,61	1,10	178,51
6+10,08	1,53	0,00	0,26	0,00	179,87	1,10	178,77
7+0,00	1,51	0,04	15,08	0,20	194,95	1,30	193,65
8+0,00	1,76	0,00	32,66	0,42	227,61	1,71	225,89
8+8,08	1,80	0,00	14,37	0,02	241,97	1,73	240,24
8+10,85	1,88	0,00	5,08	0,01	247,06	1,74	245,32
8+13,62	1,93	0,00	5,28	0,00	252,33	1,74	250,59
9+0,00	1,97	0,00	12,45	0,01	264,79	1,75	263,04
10+0,00	2,31	0,00	42,74	0,03	307,53	1,78	305,75
10+6,25	2,35	0,00	14,56	0,01	322,09	1,78	320,31
10+6,65	2,36	0,00	0,93	0,00	323,02	1,78	321,24
10+7,04	2,37	0,00	0,93	0,00	323,95	1,78	322,17
11+0,00	2,51	0,01	31,64	0,04	355,59	1,83	353,77
11+13,13	2,92	0,04	35,62	0,31	391,22	2,13	389,08
11+17,29	2,78	0,04	11,87	0,18	403,08	2,31	400,77
12+0,00	2,92	0,06	7,70	0,13	410,79	2,45	408,34
12+1,46	2,82	0,05	4,20	0,07	414,98	2,52	412,46
12+14,74	2,30	0,06	33,97	0,68	448,95	3,20	445,75
12+14,77	2,30	0,06	0,07	0,00	449,02	3,20	445,82
12+14,81	2,30	0,06	0,07	0,00	449,10	3,20	445,89
13+0,00	2,12	0,11	11,47	0,44	460,57	3,65	456,92
13+16,77	2,82	0,08	41,42	1,62	501,99	5,27	496,72
13+16,82	2,81	0,08	0,12	0,00	502,11	5,27	496,83
13+16,86	2,80	0,08	0,12	0,00	502,22	5,28	496,95
14+0,00	2,59	0,10	8,48	0,28	510,69	5,55	505,13
15+0,00	2,39	0,03	49,79	1,24	560,47	6,80	553,68
16+0,00	2,92	0,01	53,10	0,38	613,58	7,18	606,40
16+0,09	2,92	0,01	0,26	0,00	613,84	7,18	606,66
16+0,10	2,92	0,01	0,04	0,00	613,88	7,18	606,70
16+0,12	2,92	0,01	0,04	0,00	613,92	7,18	606,74
17+0,00	2,23	0,07	51,17	0,85	665,09	8,03	657,05
17+1,92	2,21	0,08	4,26	0,15	669,35	8,19	661,17
17+1,94	2,21	0,08	0,03	0,00	669,38	8,19	661,20
17+1,95	2,21	0,08	0,03	0,00	669,42	8,19	661,23
18+0,00	0,00	0,00	19,93	0,76	689,34	8,95	680,39
18+3,55	0,00	0,00	0,00	0,00	689,34	8,95	680,39

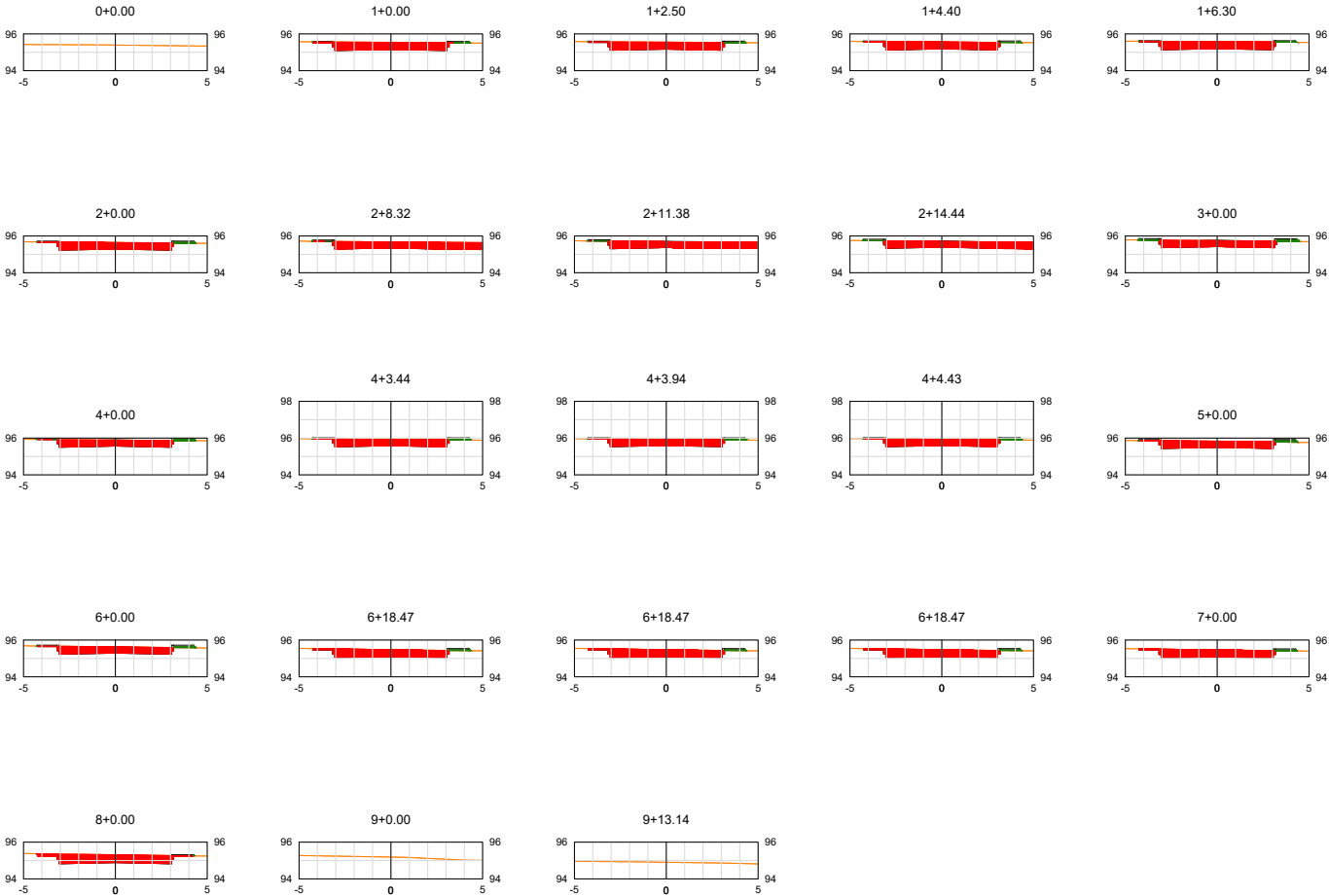
LEGENDA:	
	PROJEÇÃO DA SUPERFÍCIE DE TERRAPLENAGEM
	PROJEÇÃO DA SUPERFÍCIE DO TERRENO NATURAL
	CONTOURNO DAS ESTRUTURAS DO PAVIMENTO
	PROJEÇÃO DE REGIÕES SUJEITAS A ATERRO
	PROJEÇÃO DE REGIÕES SUJEITAS A CORTE

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

SEÇÕES TRANSVERSAIS
RUA D (LOTEAMENTO BETEL)
ESC.: 1/200



SEÇÕES TRANSVERSAIS
RUA E (LOTEAMENTO BETEL)
ESC.: 1/200



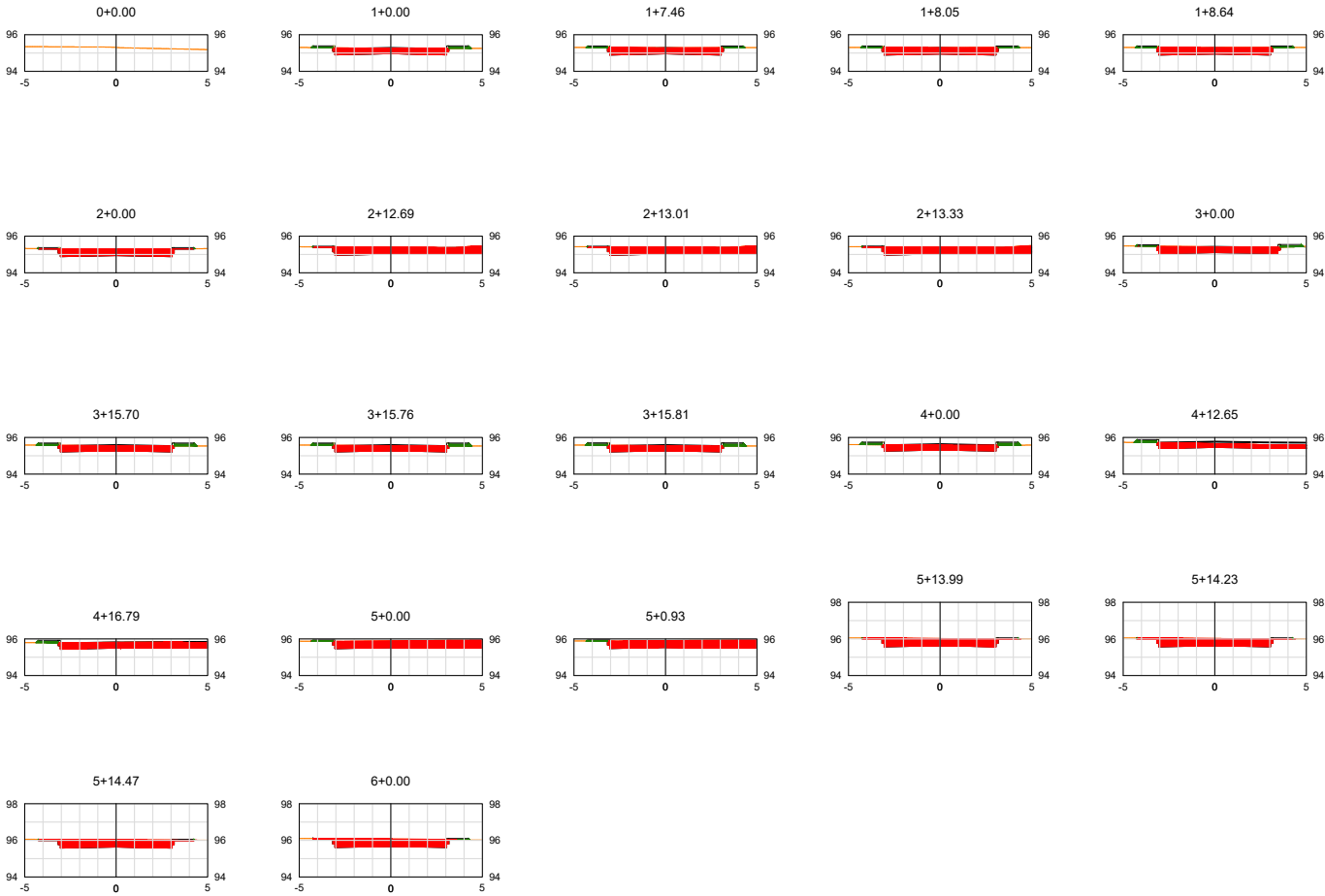
Mapa de cubação (Método da semissoma das áreas) - RUA D (LOT. BETEL)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0.00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
1+0.00	1,76	0,28	17,64	2,80	17,64	2,80	15,05
2+0.00	1,93	0,19	36,94	4,54	54,59	7,14	47,45
2+18,03	2,06	0,15	35,96	3,11	90,55	10,25	80,30
2+18,04	2,06	0,15	0,01	0,00	90,55	10,25	80,30
2+18,04	2,06	0,15	0,01	0,00	90,56	10,25	80,31
3+0.00	2,07	0,15	4,05	0,29	94,61	10,55	84,06
4+0.00	2,20	0,09	42,71	2,41	137,31	12,95	124,36
5+0.00	2,17	0,10	43,71	1,93	181,02	14,89	166,14
6+0.00	2,28	0,07	44,51	1,69	225,54	16,58	208,96
6+17,08	2,24	0,08	38,56	1,28	264,10	17,86	246,24
6+17,08	2,24	0,08	0,00	0,00	264,10	17,86	246,24
6+17,08	2,24	0,08	0,00	0,00	264,10	17,86	246,24
7+0.00	2,23	0,08	6,52	0,24	270,62	18,10	252,52
8+0.00	2,23	0,10	44,63	1,80	315,25	19,90	295,35
9+0.00	0,00	0,00	22,32	0,97	337,57	20,86	316,71
9+11,47	0,00	0,00	0,00	0,00	337,57	20,86	316,71

LEGENDA:	
	PROJEÇÃO DA SUPERFÍCIE DE TERRAPLENAGEM
	PROJEÇÃO DA SUPERFÍCIE DO TERRENO NATURAL
	CONTORNO DAS ESTRUTURAS DO PAVIMENTO
	PROJEÇÃO DE REGIÕES SUJEITAS A ATERRO
	PROJEÇÃO DE REGIÕES SUJEITAS A CORTE

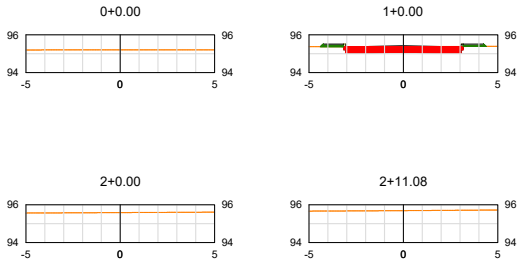
Mapa de cubação (Método da semissoma das áreas) - RUA E (LOT. BETEL)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum Aterro Acum. (m³)	Volume Líquido (m³)
0+0.00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
1+0.00	2,65	0,01	26,49	0,06	26,49	0,06	26,43
1+2,50	2,60	0,01	6,56	0,02	33,06	0,08	32,97
1+4,40	2,56	0,02	4,90	0,03	37,96	0,11	37,85
1+6,30	2,56	0,02	4,87	0,03	42,83	0,14	42,69
2+0.00	2,41	0,05	34,05	0,48	76,88	0,62	76,26
2+8,32	2,95	0,00	22,30	0,23	99,18	0,85	98,33
2+11,38	2,77	0,01	8,77	0,01	107,95	0,86	107,09
2+14,44	2,88	0,01	8,66	0,02	116,61	0,88	115,73
3+0.00	2,20	0,10	14,13	0,30	130,73	1,18	129,55
4+0.00	2,25	0,07	44,54	1,76	175,27	2,95	172,32
4+3,44	2,32	0,06	7,87	0,23	183,14	3,17	179,96
4+3,94	2,33	0,06	1,15	0,03	184,29	3,20	181,09
4+4,43	2,34	0,06	1,16	0,03	185,45	3,23	182,22
5+0.00	2,26	0,10	35,81	1,20	221,26	4,43	216,83
6+0.00	2,33	0,08	45,90	1,78	267,16	6,21	260,95
6+18,47	2,60	0,04	45,60	1,12	312,76	7,32	305,44
6+18,47	2,60	0,04	0,01	0,00	312,77	7,32	305,45
6+18,47	2,60	0,04	0,01	0,00	312,78	7,32	305,45
7+0.00	2,63	0,04	4,00	0,06	316,77	7,39	309,39
8+0.00	3,01	0,00	56,40	0,41	373,17	7,79	365,38
9+0.00	0,00	0,00	30,14	0,02	403,30	7,81	395,49
9+13,14	0,00	0,00	0,00	0,00	403,30	7,81	395,49

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

SEÇÕES TRANSVERSAIS
RUA F (LOTEAMENTO BETEL)
ESC.: 1/200



SEÇÕES TRANSVERSAIS
RUA I (LOTEAMENTO BETEL)
ESC.: 1/200



Mapa de cubação (Método da semissoma das áreas) - RUA F (LOT. BETEL)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volum. de Corte (m³)	Volum. de Aterro (m³)	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)	Volum. Líquido (m³)
0+0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1+0.00	2.03	0.12	20.34	1.21	20.34	1.21	19.13
1+7.46	2.28	0.04	16.10	0.60	36.44	1.81	34.63
1+8.05	2.31	0.03	1.36	0.02	37.80	1.83	35.97
1+8.64	2.33	0.03	1.37	0.02	39.17	1.85	37.32
2+0.00	2.50	0.00	27.44	0.16	66.61	2.01	64.60
2+12.69	3.14	0.00	35.82	0.02	102.43	2.03	100.40
2+13.01	3.13	0.00	1.02	0.00	103.44	2.03	101.41
2+13.33	3.14	0.00	1.02	0.00	104.46	2.03	102.43
3+0.00	2.28	0.08	18.08	0.26	122.54	2.29	120.25
3+15.70	1.93	0.18	33.03	2.02	155.56	4.31	151.25
3+15.76	1.93	0.18	0.10	0.01	155.67	4.32	151.35
3+15.81	1.92	0.18	0.10	0.01	155.77	4.33	151.44
4+0.00	1.82	0.21	7.84	0.81	163.61	5.14	158.46
4+12.65	1.81	0.11	22.93	1.39	186.54	7.14	179.40
4+16.79	2.60	0.08	9.12	0.38	195.66	7.52	188.14
5+0.00	3.24	0.02	9.38	0.15	205.03	7.67	197.36
5+0.93	3.29	0.01	3.03	0.02	208.07	7.69	200.38
5+13.99	2.73	0.00	39.32	0.10	247.38	7.79	239.59
5+14.23	2.73	0.00	0.65	0.00	248.04	7.79	240.24
5+14.47	2.73	0.00	0.65	0.00	248.69	7.79	240.89
6+0.00	2.76	0.01	15.19	0.02	263.88	7.82	256.07
6+19.98	0.00	0.00	27.61	0.06	291.49	7.88	283.62

LEGENDA:	
	PROJEÇÃO DA SUPERFÍCIE DE TERRAPLENAGEM
	PROJEÇÃO DA SUPERFÍCIE DO TERRENO NATURAL
	CONTORNO DAS ESTRUTURAS DO PAVIMENTO
	PROJEÇÃO DE REGIÕES SUEITAS A ATERRO
	PROJEÇÃO DE REGIÕES SUEITAS A CORTE

Mapa de cubação (Método da semissoma das áreas) - RUA I (LOT. BETEL)							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volum. de Corte (m³)	Volum. de Aterro (m³)	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)	Volum. Líquido (m³)
0+0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1+0.00	2.06	0.14	20.56	1.45	20.56	1.45	19.11
2+0.00	0.00	0.00	20.56	1.45	41.11	2.90	38.22
2+11.08	0.00	0.00	0.00	0.00	41.11	2.90	38.22

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

Nota de Serviço - CIDADE UNIVERSITÁRIA

RUA 8A RUA 8A 0+0.000 17+2.461

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. (%)
-4.609	73.974	-35.32	-4.499	74.013	21.30	-3.419	73.783	159.00	-3.300	73.593	-2.00	0+0.000		PCV	73.999	73.999	0.000	3.300	73.593	-2.00	3.419	73.783	159.00	4.499	74.013	21.30	4.595	73.988	-25.73
-4.582	73.906	-14.44	-4.499	73.918	21.30	-3.419	73.688	159.00	-3.300	73.498	-2.00	1+0.000			73.904	73.936	-0.033	3.300	73.498	-2.00	3.419	73.688	159.00	4.499	73.918	21.30	4.528	73.960	149.98
-4.566	73.867	7.38	-4.499	73.862	21.30	-3.419	73.632	159.00	-3.300	73.442	-2.00	2+0.000			73.848	73.896	-0.047	3.300	73.442	-2.00	3.419	73.632	159.00	4.499	73.862	21.30	4.524	73.909	187.35
-4.562	73.858	12.84	-4.499	73.849	21.30	-3.419	73.619	159.00	-3.300	73.429	-2.00	3+0.000			73.835	73.863	-0.028	3.300	73.429	-2.00	3.419	73.619	159.00	4.499	73.849	21.30	4.560	73.860	18.08
-4.601	73.848	-30.33	-4.499	73.879	21.30	-3.419	73.649	159.00	-3.300	73.459	-2.00	4+0.000			73.865	73.843	0.022	3.300	73.459	-2.00	3.419	73.649	159.00	4.499	73.879	21.30			
-4.606	73.908	-33.37	-4.499	73.944	21.30	-3.419	73.714	159.00	-3.300	73.524	-2.00	4+18.689	PC		73.930	73.872	0.058	3.300	73.524	-2.00	3.419	73.714	159.00	4.499	73.944	21.30			
-4.605	73.911	-32.56	-4.499	73.945	21.30	-3.419	73.715	159.00	-3.300	73.525	-2.00	4+18.908			73.931	73.874	0.056	3.300	73.525	-2.00	3.419	73.715	159.00	4.499	73.945	21.30			
-4.604	73.913	-31.74	-4.499	73.946	21.30	-3.419	73.716	159.00	-3.300	73.526	-2.00	4+19.128	PT		73.932	73.877	0.055	3.300	73.526	-2.00	3.419	73.716	159.00	4.499	73.946	21.30			
-4.599	73.922	-28.47	-4.499	73.950	21.30	-3.419	73.720	159.00	-3.300	73.530	-2.00	5+0.000			73.936	73.885	0.051	3.300	73.530	-2.00	3.419	73.720	159.00	4.499	73.950	21.30			
-4.511	74.122	496.58	-4.499	74.063	21.30	-3.419	73.833	159.00	-3.300	73.643	-2.00	6+0.000			74.049	74.078	-0.029	3.300	73.643	-2.00	3.419	73.833	159.00	4.499	74.063	21.30			
-4.537	74.326	283.38	-4.499	74.219	21.30	-3.419	73.989	159.00	-3.300	73.799	-2.00	7+0.000			74.205	74.282	-0.077	3.300	73.799	-2.00	3.419	73.989	159.00	4.499	74.219	21.30			
-4.522	74.508	402.91	-4.499	74.417	21.30	-3.419	74.187	159.00	-3.300	73.997	-2.00	8+0.000			74.403	74.474	-0.071	3.300	73.997	-2.00	3.419	74.187	159.00	4.499	74.417	21.30			
-4.518	74.712	479.28	-4.499	74.625	21.30	-3.419	74.395	159.00	-3.300	74.205	-2.00	8+17.567	PC		74.611	74.664	-0.053	3.300	74.205	-2.00	3.419	74.395	159.00	4.499	74.625	21.30			
-4.518	74.714	467.49	-4.499	74.626	21.30	-3.419	74.396	159.00	-3.300	74.206	-2.00	8+17.635			74.612	74.665	-0.053	3.300	74.206	-2.00	3.419	74.396	159.00	4.499	74.626	21.30			
-4.518	74.714	469.87	-4.499	74.627	21.30	-3.419	74.397	159.00	-3.300	74.207	-2.00	8+17.702	PT		74.613	74.666	-0.054	3.300	74.207	-2.00	3.419	74.397	159.00	4.499	74.627	21.30			
-4.518	74.715	470.30	-4.499	74.627	21.30	-3.419	74.397	159.00	-3.300	74.207	-2.00	8+17.713	PC		74.613	74.667	-0.054	3.300	74.207	-2.00	3.419	74.397	159.00	4.499	74.627	21.30			
-4.519	74.709	273.35	-4.499	74.657	21.30	-3.419	74.427	159.00	-3.300	74.237	-2.00	9+0.000			74.643	74.708	-0.065	3.300	74.237	-2.00	3.419	74.427	159.00	4.499	74.657	21.30	4.510	74.736	747.12
-4.533	74.705	113.96	-4.499	74.668	21.30	-3.419	74.438	159.00	-3.300	74.248	-2.00	9+0.844			74.654	74.721	-0.067	3.300	74.248	-2.00	3.419	74.438	159.00	4.499	74.668	21.30	4.524	74.761	378.39
-4.583	74.696	-15.37	-4.499	74.709	21.30	-3.419	74.479	159.00	-3.300	74.289	-2.00	9+3.975	PT		74.695	74.751	-0.056	3.300	74.289	-2.00	3.419	74.479	159.00	4.499	74.709	21.30	4.523	74.802	389.77
-4.620	74.696	-40.99	-4.499	74.745	21.30	-3.419	74.515	159.00	-3.300	74.325	-2.00	9+6.614	PC		74.731	74.766	-0.034	3.300	74.325	-2.00	3.419	74.515	159.00	4.499	74.745	21.30	4.516	74.830	523.19
-4.618	74.702	-40.05	-4.499	74.750	21.30	-3.419	74.520	159.00	-3.300	74.330	-2.00	9+6.958			74.736	74.767	-0.032	3.300	74.330	-2.00	3.419	74.520	159.00	4.499	74.750	21.30	4.513	74.832	630.41
-4.616	74.709	-38.88	-4.499	74.755	21.30	-3.419	74.525	159.00	-3.300	74.335	-2.00	9+7.301	PT		74.741	74.769	-0.029	3.300	74.335	-2.00	3.419	74.525	159.00	4.499	74.755	21.30	4.509	74.833	800.56
-4.651	74.851	-53.09	-4.499	74.931	21.30	-3.419	74.701	159.00	-3.300	74.511	-2.00	9+19.533	PC		74.917	74.873	0.045	3.300	74.511	-2.00	3.419	74.701	159.00	4.499	74.931	21.30	4.610	74.892	-35.63
-4.647	74.862	-51.91	-4.499	74.939	21.30	-3.419	74.709	159.00	-3.300	74.519	-2.00	10+0.000			74.925	74.871	0.054	3.300	74.519	-2.00	3.419	74.709	159.00	4.499	74.939	21.30	4.617	74.892	-39.70
-4.617	74.952	-39.47	-4.499	74.998	21.30	-3.419	74.768	159.00	-3.300	74.578	-2.00	10+3.866		PTV	74.984	74.943	0.041	3.300	74.578	-2.00	3.419	74.768	159.00	4.499	74.998	21.30	4.674	74.895	-59.20
-4.528	75.108	146.72	-4.499	75.066	21.30	-3.419	74.836	159.00	-3.300	74.646	-2.00	10+8.199	PT		75.052	75.018	0.034	3.300	74.646	-2.00	3.419	74.836	159.00	4.499	75.066	21.30	4.725	74.911	-68.58
-4.526	75.297	167.98	-4.499	75.253	21.30	-3.419	75.023	159.00	-3.300	74.833	-2.00	11+0.000			75.239	75.207	0.032	3.300	74.833	-2.00	3.419	75.023	159.00	4.499	75.253	21.30	4.686	75.137	-62.02
			-4.499	75.569	21.30	-3.419	75.339	159.00	-3.300	75.149	-2.00	12+0.000			75.555	75.532	0.023	3.300	75.149	-2.00	3.419	75.339	159.00	4.499	75.569	21.30	4.649	75.491	-52.42
			-4.499	75.885	21.30	-3.419	75.655	159.00	-3.300	75.465	-2.00	13+0.000			75.871	75.863	0.008	3.300	75.465	-2.00	3.419	75.655	159.00	4.499	75.885	21.30	4.624	75.832	-42.98
			-4.499	76.202	21.30	-3.419	75.972	159.00	-3.300	75.782	-2.00	14+0.000			76.188	76.166	0.021	3.300	75.782	-2.00	3.419	75.972	159.00	4.499	76.202	21.30	4.637	76.135	-48.50
			-4.499	76.267	21.30	-3.419	76.037	159.00	-3.300	75.847	-2.00	14+4.125	PC		76.253	76.229	0.024	3.300	75.847	-2.00	3.419	76.037	159.00	4.499	76.267	21.30	4.640	76.197	-49.51
			-4.499	76.267	21.30	-3.419	76.037	159.00	-3.300	75.847	-2.00	14+4.126			76.253	76.229	0.024	3.300	75.847	-2.00	3.419	76.037	159.00	4.499	76.267	21.30	4.640	76.197	-49.49
			-4.499	76.518	21.30	-3.419	76.288	159.00	-3.300	76.098	-2.00	15+0.000			76.504		76.504	3.300	76.098	-2.00	3.419	76.288	159.00	4.499	76.518	21.30			
			-4.499	76.834	21.30	-3.419	76.604	159.00	-3.300	76.414	-2.00	16+0.000			76.820	76.816	0.004	3.300	76.414	-2.00	3.419	76.604	159.00	4.499	76.834	21.30			
			-4.499	77.150	21.30	-3.419	76.920	159.00	-3.300	76.730	-2.00	17+0.000			77.136	77.170	-0.034	3.300	76.730	-2.00	3.419	76.920	159.00	4.499	77.150	21.30			
			-4.499	77.189	21.30	-3.419	76.959	159.00	-3.300	76.769	-2.00	17+2.461			77.175	77.213	-0.038	3.300	76.769	-2.00	3.419	76.959	159.00	4.499	77.189	21.30			


Victor Leonardo Acioli Barros
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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

Sem Escala



RUA G (CID. UNIV.) RUA G (CID. UNIV.) 0+0.000 52+10.286

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. (%)
-6.069	99.360	2.74	-5.999	99.359	21.30	-4.920	99.129	159.00	-4.800	98.939	-2.00	0+0.000			99.375	99.375	0.000	4.800	98.939	-2.00	4.920	99.129	159.00	5.999	99.359	21.30			
-6.007	99.412	856.31	-5.999	99.348	21.30	-4.920	99.118	159.00	-4.800	98.928	-2.00	1+0.000			99.364	99.397	-0.033	4.800	98.928	-2.00	4.920	99.118	159.00	5.999	99.348	21.30	6.016	99.402	322.66
-6.006	99.413	1,175.25	-5.999	99.337	21.30	-4.920	99.107	159.00	-4.800	98.917	-2.00	2+0.000			99.353	99.395	-0.041	4.800	98.917	-2.00	4.920	99.107	159.00	5.999	99.337	21.30	6.034	99.373	103.39
-6.007	99.403	1,047.52	-5.999	99.327	21.30	-4.920	99.097	159.00	-4.800	98.907	-2.00	3+0.000			99.343	99.378	-0.035	4.800	98.907	-2.00	4.920	99.097	159.00	5.999	99.327	21.30	6.063	99.334	11.53
-6.008	99.378	709.75	-5.999	99.316	21.30	-4.920	99.086	159.00	-4.800	98.896	-2.00	4+0.000			99.332	99.360	-0.027	4.800	98.896	-2.00	4.920	99.086	159.00	5.999	99.316	21.30	6.070	99.316	0.01
-6.063	99.313	12.07	-5.999	99.306	21.30	-4.920	99.076	159.00	-4.800	98.886	-2.00	5+0.000			99.322	99.297	0.024	4.800	98.886	-2.00	4.920	99.076	159.00	5.999	99.306	21.30	6.099	99.277	-28.93
-6.139	99.226	-49.24	-5.999	99.295	21.30	-4.920	99.065	159.00	-4.800	98.875	-2.00	6+0.000			99.311	99.074	0.237	4.800	98.875	-2.00	4.920	99.065	159.00	5.999	99.295	21.30	6.020	99.385	435.58
-6.042	99.313	68.47	-5.999	99.284	21.30	-4.920	99.054	159.00	-4.800	98.864	-2.00	7+0.000			99.300	99.318	-0.018	4.800	98.864	-2.00	4.920	99.054	159.00	5.999	99.284	21.30	6.067	99.288	5.93
			-5.999	99.274	21.30	-4.920	99.044	159.00	-4.800	98.854	-2.00	8+0.000			99.290	99.307	-0.017	4.800	98.854	-2.00	4.920	99.044	159.00	5.999	99.274	21.30	6.088	99.257	-19.55
-6.012	99.345	637.75	-5.999	99.263	21.30	-4.920	99.033	159.00	-4.800	98.843	-2.00	9+0.000			99.279	99.300	-0.021	4.800	98.843	-2.00	4.920	99.033	159.00	5.999	99.263	21.30	6.083	99.251	-14.74
-6.029	99.351	333.83	-5.999	99.253	21.30	-4.920	99.023	159.00	-4.800	98.833	-2.00	10+0.000	PCV		99.269	99.290	-0.022	4.800	98.833	-2.00	4.920	99.023	159.00	5.999	99.253	21.30	6.091	99.232	-22.73
-6.029	99.367	333.83	-5.999	99.269	21.30	-4.920	99.039	159.00	-4.800	98.849	-2.00	11+0.000	PTV		99.285	99.271	0.014	4.800	98.849	-2.00	4.920	99.039	159.00	5.999	99.269	21.30	6.091	99.248	-22.73
-6.029	99.446	333.83	-5.999	99.347	21.30	-4.920	99.117	159.00	-4.800	98.927	-2.00	12+0.000	PCV		99.363	99.419	-0.056	4.800	98.927	-2.00	4.920	99.117	159.00	5.999	99.347	21.30	6.091	99.326	-22.73
-6.018	99.484	292.03	-5.999	99.431	21.30	-4.920	99.201	159.00	-4.800	99.011	-2.00	13+0.000			99.447	99.431	0.017	4.800	99.011	-2.00	4.920	99.201	159.00	5.999	99.431	21.30	6.126	99.376	-43.76
-6.008	99.540	760.70	-5.999	99.477	21.30	-4.920	99.247	159.00	-4.800	99.057	-2.00	14+0.000	PTV		99.493	99.479	0.014	4.800	99.057	-2.00	4.920	99.247	159.00	5.999	99.477	21.30	6.131	99.417	-45.97
-6.009	99.578	794.69	-5.999	99.499	21.30	-4.920	99.269	159.00	-4.800	99.079	-2.00	15+0.000			99.515	99.520	-0.005	4.800	99.079	-2.00	4.920	99.269	159.00	5.999	99.499	21.30	6.112	99.457	-37.15
-6.037	99.628	284.22	-5.999	99.521	21.30	-4.920	99.291	159.00	-4.800	99.101	-2.00	16+0.000			99.537	99.569	-0.032	4.800	99.101	-2.00	4.920	99.291	159.00	5.999	99.521	21.30	6.089	99.503	-20.73
-6.060	99.673	213.65	-5.999	99.543	21.30	-4.920	99.313	159.00	-4.800	99.123	-2.00	17+0.000			99.559	99.613	-0.053	4.800	99.123	-2.00	4.920	99.313	159.00	5.999	99.543	21.30	6.070	99.544	1.08
-6.096	99.731	171.45	-5.999	99.565	21.30	-4.920	99.335	159.00	-4.800	99.145	-2.00	18+0.000			99.581	99.643	-0.062	4.800	99.145	-2.00	4.920	99.335	159.00	5.999	99.565	21.30	6.045	99.590	54.51
-6.045	99.701	252.98	-5.999	99.587	21.30	-4.920	99.357	159.00	-4.800	99.167	-2.00	19+0.000	PCV		99.603	99.628	-0.025	4.800	99.167	-2.00	4.920	99.357	159.00	5.999	99.587	21.30	6.096	99.562	-26.24
-6.023	99.674	389.89	-5.999	99.581	21.30	-4.920	99.351	159.00	-4.800	99.161	-2.00	20+0.000	PTV		99.597	99.588	0.009	4.800	99.161	-2.00	4.920	99.351	159.00	5.999	99.581	21.30	6.139	99.513	-48.95
-6.042	99.617	264.21	-5.999	99.506	21.30	-4.920	99.276	159.00	-4.800	99.086	-2.00	21+0.000	PCV		99.522	99.522	0.000	4.800	99.086	-2.00	4.920	99.276	159.00	5.999	99.506	21.30	6.124	99.452	-43.07
-6.042	99.541	264.21	-5.999	99.430	21.30	-4.920	99.200	159.00	-4.800	99.010	-2.00	22+0.000	PTV		99.446	99.461	-0.015	4.800	99.010	-2.00	4.920	99.200	159.00	5.999	99.430	21.30	6.124	99.376	-43.07
-6.042	99.549	264.21	-5.999	99.438	21.30	-4.920	99.208	159.00	-4.800	99.018	-2.00	23+0.000			99.454	99.473	-0.019	4.800	99.018	-2.00	4.920	99.208	159.00	5.999	99.438	21.30	6.124	99.385	-43.07
-6.056	99.593	222.77	-5.999	99.468	21.30	-4.920	99.238	159.00	-4.800	99.048	-2.00	24+0.000			99.484	99.525	-0.041	4.800	99.048	-2.00	4.920	99.238	159.00	5.999	99.468	21.30	6.069	99.470	2.76
-6.061	99.629	211.33	-5.999	99.498	21.30	-4.920	99.268	159.00	-4.800	99.078	-2.00	25+0.000			99.514	99.560	-0.046	4.800	99.078	-2.00	4.920	99.268	159.00	5.999	99.498	21.30	6.066	99.502	6.55
-6.067	99.663	202.51	-5.999	99.527	21.30	-4.920	99.297	159.00	-4.800	99.107	-2.00	26+0.000			99.543	99.594	-0.051	4.800	99.107	-2.00	4.920	99.297	159.00	5.999	99.527	21.30	6.061	99.536	14.67
-6.046	99.672	249.16	-5.999	99.557	21.																								

RUA RAD. N. SUASSUNA RUA RADIALISTA N. SUASSUNA 0+0.000 56+15.496

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. (%)
-6.132	98.313	-46.31	-5.999	98.374	21.30	-4.920	98.144	159.00	-4.800	97.954	-2.00	0+0.000			98.390	98.390	0.000	4.800	97.954	-2.00	4.920	98.144	159.00	5.999	98.374	21.30	6.084	98.361	-16.34
-6.075	98.534	-6.53	-5.999	98.539	21.30	-4.920	98.309	159.00	-4.800	98.119	-2.00	1+0.000			98.555	98.549	0.007	4.800	98.119	-2.00	4.920	98.309	159.00	5.999	98.539	21.30	6.054	98.556	30.94
-6.053	98.722	32.61	-5.999	98.704	21.30	-4.920	98.474	159.00	-4.800	98.284	-2.00	2+0.000			98.720	98.726	-0.006	4.800	98.284	-2.00	4.920	98.474	159.00	5.999	98.704	21.30	6.045	98.729	55.09
-6.035	98.905	101.58	-5.999	98.869	21.30	-4.920	98.639	159.00	-4.800	98.449	-2.00	3+0.000			98.885	98.904	-0.019	4.800	98.449	-2.00	4.920	98.639	159.00	5.999	98.869	21.30	6.033	98.907	113.66
-6.028	99.076	148.56	-5.999	99.034	21.30	-4.920	98.804	159.00	-4.800	98.614	-2.00	4+0.000			99.050	99.076	-0.026	4.800	98.614	-2.00	4.920	98.804	159.00	5.999	99.034	21.30	6.023	99.081	199.75
-6.027	99.242	160.56	-5.999	99.199	21.30	-4.920	98.969	159.00	-4.800	98.779	-2.00	5+0.000			99.215	99.242	-0.027	4.800	98.779	-2.00	4.920	98.969	159.00	5.999	99.199	21.30	6.023	99.246	204.13
-6.027	99.407	160.56	-5.999	99.363	21.30	-4.920	99.133	159.00	-4.800	98.943	-2.00	6+0.000			99.379	99.402	-0.023	4.800	98.943	-2.00	4.920	99.133	159.00	5.999	99.363	21.30	6.023	99.411	204.13
-6.027	99.468	160.56	-5.999	99.425	21.30	-4.920	99.195	159.00	-4.800	99.005	-2.00	6+7.409			99.441	99.481	-0.040	4.800	99.005	-2.00	4.920	99.195	159.00	5.999	99.425	21.30	6.023	99.472	204.13
-6.027	99.641	160.56	-5.999	99.597	21.30	-4.920	99.367	159.00	-4.800	99.177	-2.00	7+0.000			99.613	99.638	-0.025	4.800	99.177	-2.00	4.920	99.367	159.00	5.999	99.597	21.30	6.023	99.645	204.13
-6.061	100.005	212.89	-5.999	99.875	21.30	-4.920	99.645	159.00	-4.800	99.455	-2.00	8+0.000			99.891	99.972	-0.081	4.800	99.455	-2.00	4.920	99.645	159.00	5.999	99.875	21.30	6.007	99.938	846.64
-6.139	100.360	149.62	-5.999	100.152	21.30	-4.920	99.922	159.00	-4.800	99.732	-2.00	9+0.000			100.168	100.316	-0.148	4.800	99.732	-2.00	4.920	99.922	159.00	5.999	100.152	21.30	6.054	100.275	226.99
-6.181	100.680	137.92	-5.999	100.429	21.30	-4.920	100.199	159.00	-4.800	100.009	-2.00	10+0.000			100.445	100.616	-0.171	4.800	100.009	-2.00	4.920	100.199	159.00	5.999	100.429	21.30	6.040	100.539	270.79
-6.020	100.796	439.76	-5.999	100.707	21.30	-4.920	100.477	159.00	-4.800	100.287	-2.00	11+0.000			100.723	100.786	-0.064	4.800	100.287	-2.00	4.920	100.477	159.00	5.999	100.707	21.30	6.018	100.759	281.19
-6.058	100.996	21.87	-5.999	100.984	21.30	-4.920	100.754	159.00	-4.800	100.564	-2.00	12+0.000			101.000	100.951	0.049	4.800	100.564	-2.00	4.920	100.754	159.00	5.999	100.984	21.30	6.132	100.923	-46.24
-6.058	101.049	21.87	-5.999	101.036	21.30	-4.920	100.806	159.00	-4.800	100.616	-2.00	13+0.000			101.052	101.061	-0.009	4.800	100.616	-2.00	4.920	100.806	159.00	5.999	101.036	21.30	6.132	100.975	-46.24
-6.058	101.052	21.87	-5.999	101.039	21.30	-4.920	100.809	159.00	-4.800	100.619	-2.00	13+1.035			101.055	101.069	-0.014	4.800	100.619	-2.00	4.920	100.809	159.00	5.999	101.039	21.30	6.132	100.978	-46.24
-6.058	100.980	21.87	-5.999	100.967	21.30	-4.920	100.737	159.00	-4.800	100.547	-2.00	14+0.000			100.983	101.073	-0.090	4.800	100.547	-2.00	4.920	100.737	159.00	5.999	100.967	21.30	6.132	100.906	-46.24
-6.013	100.972	629.01	-5.999	100.890	21.30	-4.920	100.660	159.00	-4.800	100.470	-2.00	15+0.000			100.906	100.968	-0.062	4.800	100.470	-2.00	4.920	100.660	159.00	5.999	100.890	21.30	6.011	100.950	535.87
			-5.999	100.845	21.30	-4.920	100.615	159.00	-4.800	100.425	-2.00	15+11.750			100.861	100.914	-0.053	4.800	100.425	-2.00	4.920	100.615	159.00	5.999	100.845	21.30	6.017	100.898	305.26
-6.014	100.870	403.32	-5.999	100.813	21.30	-4.920	100.583	159.00	-4.800	100.393	-2.00	16+0.000			100.829	100.873	-0.044	4.800	100.393	-2.00	4.920	100.583	159.00	5.999	100.813	21.30	6.024	100.860	190.50
-6.026	100.783	171.49	-5.999	100.738	21.30	-4.920	100.508	159.00	-4.800	100.318	-2.00	17+0.000			100.754	100.781	-0.027	4.800	100.318	-2.00	4.920	100.508	159.00	5.999	100.738	21.30	6.037	100.772	89.15
-6.046	100.702	53.00	-5.999	100.677	21.30	-4.920	100.447	159.00	-4.800	100.257	-2.00	18+0.000		PCV	100.693	100.699	-0.006	4.800	100.257	-2.00	4.920	100.447	159.00	5.999	100.677	21.30	6.057	100.691	23.56
-6.058	100.630	20.60	-5.999	100.618	21.30	-4.920	100.388	159.00	-4.800	100.198	-2.00	19+0.000			100.634	100.616	0.018	4.800	100.198	-2.00	4.920	100.388	159.00	5.999	100.618	21.30	6.084	100.605	-15.71
-6.053	100.607	32.71	-5.999	100.589	21.30	-4.920	100.359	159.00	-4.800	100.169	-2.00	20+0.000			100.605	100.590	0.016	4.800	100.169	-2.00	4.920	100.359	159.00	5.999	100.589	21.30	6.091	100.568	-22.79
-6.027	100.646	155.78	-5.999	100.603	21.30	-4.920	100.373	159.00	-4.800	100.183	-2.00	21+0.000		PTV	100.619	100.639	-0.020	4.800	100.183	-2.00	4.920	100.373	159.00	5.999	100.603	21.30	6.042	100.631	67.34
-6.031	100.697	124.60	-5.999	100.657	21.30	-4.920	100.427	159.00	-4.800	100.237	-2.00	22+0.000			100.673	100.702	-0.028	4.800	100.237	-2.00	4.920	100.427	159.00	5.999	100.657	21.30	6.030	100.698	136.66
-6.044	100.754	58.62	-5.999	100.728	21.30	-4.920.																							

-6.086	103.494	-17.45	-5.999	103.509	21.30	-4.920	103.279	159.00	-4.800	103.089	-2.00	52+0.000			103.525	103.478	0.047	4.800	103.089	-2.00	4.920	103.279	159.00	5.999	103.509	21.30	6.146	103.433	-51.61
-6.082	103.488	-13.50	-5.999	103.499	21.30	-4.920	103.269	159.00	-4.800	103.079	-2.00	53+0.000			103.515	103.450	0.066	4.800	103.079	-2.00	4.920	103.269	159.00	5.999	103.499	21.30	6.172	103.397	-58.93
-6.082	103.479	-13.50	-5.999	103.490	21.30	-4.920	103.260	159.00	-4.800	103.070	-2.00	54+0.000			103.506	103.435	0.071	4.800	103.070	-2.00	4.920	103.260	159.00	5.999	103.490	21.30	6.172	103.388	-58.93
-6.082	103.452	-13.50	-5.999	103.463	21.30	-4.920	103.233	159.00	-4.800	103.043	-2.00	55+0.000			103.479	103.559	-0.080	4.800	103.043	-2.00	4.920	103.233	159.00	5.999	103.463	21.30	6.172	103.361	-58.93
			-5.999	103.426	21.30	-4.920	103.196	159.00	-4.800	103.006	-2.00	56+0.000			103.442	103.463	-0.021	4.800	103.006	-2.00	4.920	103.196	159.00	5.999	103.426	21.30	6.070	103.426	0.10
-6.017	103.452	309.64	-5.999	103.398	21.30	-4.920	103.168	159.00	-4.800	102.978	-2.00	56+15.496			103.414	103.414	0.000	4.800	102.978	-2.00	4.920	103.168	159.00	5.999	103.398	21.30	6.093	103.375	-24.19

RUA FORTALEZA RUA FORTALEZA 0+0.000 53+0.117																													
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. (%)
-6.094	100.070	-24.72	-5.999	100.093	21.30	-4.920	99.863	159.00	-4.800	99.673	-2.00	0+0.000			100.109	100.109	0.000	4.800	99.673	-2.00	4.920	99.863	159.00	5.999	100.093	21.30	6.082	100.082	-13.85
-6.080	100.104	-11.39	-5.999	100.113	21.30	-4.920	99.883	159.00	-4.800	99.693	-2.00	1+0.000			100.129	100.109	0.020	4.800	99.693	-2.00	4.920	99.883	159.00	5.999	100.113	21.30	6.096	100.087	-26.68
-6.072	100.131	-1.95	-5.999	100.133	21.30	-4.920	99.903	159.00	-4.800	99.713	-2.00	2+0.000			100.149	100.158	-0.009	4.800	99.713	-2.00	4.920	99.903	159.00	5.999	100.133	21.30	6.069	100.135	2.64
-6.086	100.137	-17.78	-5.999	100.152	21.30	-4.920	99.922	159.00	-4.800	99.732	-2.00	3+0.000			100.168	100.184	-0.015	4.800	99.732	-2.00	4.920	99.922	159.00	5.999	100.152	21.30	6.060	100.163	17.97
-6.055	100.188	27.90	-5.999	100.172	21.30	-4.920	99.942	159.00	-4.800	99.752	-2.00	4+0.000			100.188	100.178	0.010	4.800	99.752	-2.00	4.920	99.942	159.00	5.999	100.172	21.30	6.096	100.147	-26.19
-6.034	100.228	105.81	-5.999	100.192	21.30	-4.920	99.962	159.00	-4.800	99.772	-2.00	5+0.000			100.208	100.210	-0.002	4.800	99.772	-2.00	4.920	99.962	159.00	5.999	100.192	21.30	6.089	100.173	-20.73
-6.010	100.272	579.89	-5.999	100.212	21.30	-4.920	99.982	159.00	-4.800	99.792	-2.00	6+0.000			100.228	100.268	-0.040	4.800	99.792	-2.00	4.920	99.982	159.00	5.999	100.212	21.30	6.046	100.236	53.30
-6.011	100.312	698.87	-5.999	100.231	21.30	-4.920	100.001	159.00	-4.800	99.811	-2.00	7+0.000			100.247	100.345	-0.098	4.800	99.811	-2.00	4.920	100.001	159.00	5.999	100.231	21.30	6.040	100.340	272.32
-6.010	100.330	770.24	-5.999	100.251	21.30	-4.920	100.021	159.00	-4.800	99.831	-2.00	8+0.000		PCV	100.267	100.350	-0.083	4.800	99.831	-2.00	4.920	100.021	159.00	5.999	100.251	21.30	6.018	100.339	468.96
-6.019	100.325	271.68	-5.999	100.273	21.30	-4.920	100.043	159.00	-4.800	99.853	-2.00	9+0.000			100.289	100.306	-0.017	4.800	99.853	-2.00	4.920	100.043	159.00	5.999	100.273	21.30	6.058	100.286	21.96
-6.019	100.355	271.68	-5.999	100.303	21.30	-4.920	100.073	159.00	-4.800	99.883	-2.00	10+0.000			100.319	100.305	0.014	4.800	99.883	-2.00	4.920	100.073	159.00	5.999	100.303	21.30	6.058	100.316	21.96
-6.019	100.377	271.68	-5.999	100.325	21.30	-4.920	100.095	159.00	-4.800	99.905	-2.00	10+11.969	PC		100.341	100.326	0.014	4.800	99.905	-2.00	4.920	100.095	159.00	5.999	100.325	21.30	6.058	100.337	21.96
-6.019	100.380	271.68	-5.999	100.328	21.30	-4.920	100.098	159.00	-4.800	99.908	-2.00	10+13.727			100.344	100.344	0.001	4.800	99.908	-2.00	4.920	100.098	159.00	5.999	100.328	21.30	6.058	100.341	21.96
-6.019	100.384	271.68	-5.999	100.332	21.30	-4.920	100.102	159.00	-4.800	99.912	-2.00	10+15.484	PT		100.348	100.348	0.000	4.800	99.912	-2.00	4.920	100.102	159.00	5.999	100.332	21.30	6.058	100.344	21.96
-6.019	100.393	271.68	-5.999	100.341	21.30	-4.920	100.111	159.00	-4.800	99.921	-2.00	11+0.000			100.357	100.370	-0.013	4.800	99.921	-2.00	4.920	100.111	159.00	5.999	100.341	21.30	6.058	100.354	21.96
-6.009	100.438	643.23	-5.999	100.376	21.30	-4.920	100.146	159.00	-4.800	99.956	-2.00	11+15.566	PC		100.392	100.410	-0.018	4.800	99.956	-2.00	4.920	100.146	159.00	5.999	100.376	21.30	6.062	100.385	13.29
-6.010	100.447	553.61	-5.999	100.387	21.30	-4.920	100.157	159.00	-4.800	99.967	-2.00	12+0.000			100.403	100.425	-0.022	4.800	99.967	-2.00	4.920	100.157	159.00	5.999	100.387	21.30	6.056	100.402	25.21
-6.010	100.452	579.24	-5.999	100.391	21.30	-4.920	100.161	159.00	-4.800	99.971	-2.00	12+1.607			100.407	100.431	-0.024	4.800	99.971	-2.00	4.920	100.161	159.00	5.999	100.391	21.30	6.054	100.408	30.17
			-5.999	100.407	21.30	-4.920	100.177	159.00	-4.800	99.987	-2.00	12+7.648	PT		100.423	100.455	-0.032	4.800	99.987	-2.00	4.920	100.177	159.00	5.999	100.407	21.30	6.046	100.432	53.26
-6.007	100.518	1,001.77	-5.999	100.442	21.30	-4.920	100.212	159.00	-4.800	100.022	-2.00	13+0.000			100.458	100.503	-0.046	4.800	100.022	-2.00	4.920	100.212	159.00	5.999	100.442	21.30	6.036	100.476	92.63
-6.038	100.601	279.92	-5.999	100.494	21.30	-4.920	100.264	159.00	-4.800	100.074	-2.00	13+16.880	PC		100.510	100.584	-0.074	4.800	100.074	-2.00	4.920	100.264	159.00	5.999	100.494	21.30	6.018	100.546	281.26
-6.040	100.610	272.19	-5.999	100.501	21.30	-4.920	100.271	159.00	-4.800	100.081	-2.00	13+18.975			100.517	100.595	-0.078	4.800	100.081	-2.00	4.920	100.271	159.00	5.999	100.501	21.30	6.015	100.557	366.29
-6.040	100.614	268.79	-5.999	100.504	21.30	-4.920	100.274	159.00	-4.800	100.084	-2.00	14+0.000			100.520	100.600	-0.080	4.800	100.084	-2.00	4.920	100.274	159.00	5.999	100.504	21.30	6.013	100.562	420.29
-6.041	100.618	266.78	-5.999	100.508	21.30	-4.920	100.278	159.00	-4.800	100.088	-2.00	14+1.069	PT		100.524	100.605	-0.081	4.800	100.088	-2.00	4.920	100.278	159.00	5.999	100.508	21.30	6.012	100.567	488.91
-6.040	100.685	268.36	-5.999	100.575	21.30	-4.920	100.345	159.00	-4.800	100.155	-2.00	15+0.000		PTV	100.591	100.709	-0.118	4.800	100.155	-2.00	4.920	100.345	159.00	5.999	100.575	21.30	6.026	100.671	357.54
-6.010	100.713	570.26	-5.999	100.653	21.30	-4.920	100.423	159.00	-4.800	100.233	-2.00	16+0.000			100.669	100.792	-0.124	4.800	100.233	-2.00	4.920	100.423	159.00	5.999	100.653	21.30	6.088	100.810	178.40
-6.010	100.792	579.72	-5.999	100.731	21.30	-4.920	100.501	159.00	-4.800	100.311	-2.00	17+0.000			100.747	100.808	-0.061	4.800	100.311	-2.00	4.920	100.501	159.00	5.999	100.731	21.30	6.029	100.773	142.11
-6.035	100.834	97.52	-5.999	100.799	21.30	-4.920	100.569	159.00	-4.800	100.379	-2.00	17+17.339	PC		100.815	100.830	-0.015	4.800	100.379	-2.00	4.920	100.569	159.00	5.999	100.799	21.30	6.074	100.796	-4.46
-6.037	100.837	90.86	-5.999	100.804	21.30	-4.920	100.574	159.00	-4.800	100.384	-2.00	17+18.501			100.820	100.835	-0.016	4.800	100.384	-2.00	4.920	100.574	159.00	5.999	100.804	21.30	6.076	100.798	-6.90
-6.038	100.841	84.70	-5.999	100.808	21.30	-4.920	100.578	159.00	-4.800	100.388	-2.00	17+19.663	PT		100.824	100.840	-0.016	4.800	100.388	-2.00	4.920	100.578	159.00	5.999	100.808	21.30	6.078	100.801	-9.27
-6.038	100.842	82.86	-5.999	100.809	21.30	-4.920	100.579	159.00	-4.800	100.389	-2.00	18+0.000			100.825	100.842	-0.016	4.800	100.389	-2.00	4.920	100.579	159.00	5.999	100.809	21.30	6.078	100.802	-9.91
-6.054	100.904	29.78	-5.999	100.888	21.30	-4.920	100.658	159.00	-4.800	100.468	-2.00	19+0.000		PCV	100.904	100.905	-0.001	4.800	100.468	-2.00	4.920	100.658	159.00	5.999	100.888	21.30	6.074	100.884	-5.18
-6.039	100.994	79.21	-5.999	100.963	21.30	-4.920	100.733	159.00	-4.800	100.543	-2.00	20+0.000			100.979	100.993	-0.014	4.800	100.543	-2.00	4.920	100.733	159.00	5.999	100.963	21.30	6.064	100.969	9.30
-6.008	101.092	896.52	-5.999	101.014	21.30	-4.920	100.784	159.00	-4.800	100.594																			

-6.057	100.809	22.73	-5.999	100.796	21.30	-4.920	100.566	159.00	-4.800	100.376	-2.00	28+0.000		PTV	100.812	100.864	-0.052	4.800	100.376	-2.00	4.920	100.566	159.00	5.999	100.796	21.30	6.015	100.880	551.85
-6.040	100.597	77.12	-5.999	100.566	21.30	-4.920	100.336	159.00	-4.800	100.146	-2.00	29+0.000			100.582	100.619	-0.036	4.800	100.146	-2.00	4.920	100.336	159.00	5.999	100.566	21.30	6.009	100.628	618.43
-6.043	100.430	64.00	-5.999	100.403	21.30	-4.920	100.173	159.00	-4.800	99.983	-2.00	29+12.376	PC		100.419	100.444	-0.025	4.800	99.983	-2.00	4.920	100.173	159.00	5.999	100.403	21.30	6.031	100.442	123.09
-6.043	100.424	63.25	-5.999	100.396	21.30	-4.920	100.166	159.00	-4.800	99.976	-2.00	29+12.838			100.412	100.438	-0.026	4.800	99.976	-2.00	4.920	100.166	159.00	5.999	100.396	21.30	6.031	100.436	128.16
-6.043	100.418	62.53	-5.999	100.390	21.30	-4.920	100.160	159.00	-4.800	99.970	-2.00	29+13.299	PT		100.406	100.433	-0.026	4.800	99.970	-2.00	4.920	100.160	159.00	5.999	100.390	21.30	6.030	100.431	133.46
-6.045	100.327	55.89	-5.999	100.302	21.30	-4.920	100.072	159.00	-4.800	99.882	-2.00	30+0.000			100.318	100.340	-0.023	4.800	99.882	-2.00	4.920	100.072	159.00	5.999	100.302	21.30	6.034	100.339	108.11
-6.049	100.058	43.41	-5.999	100.037	21.30	-4.920	99.807	159.00	-4.800	99.617	-2.00	31+0.000			100.053	100.069	-0.016	4.800	99.617	-2.00	4.920	99.807	159.00	5.999	100.037	21.30	6.010	100.097	567.28
-6.061	99.856	14.98	-5.999	99.846	21.30	-4.920	99.616	159.00	-4.800	99.426	-2.00	31+14.410	PC	PCV	99.862	99.862	0.000	4.800	99.426	-2.00	4.920	99.616	159.00	5.999	99.846	21.30	6.029	99.888	141.89
-6.067	99.806	5.36	-5.999	99.802	21.30	-4.920	99.572	159.00	-4.800	99.382	-2.00	31+17.744			99.818	99.814	0.004	4.800	99.382	-2.00	4.920	99.572	159.00	5.999	99.802	21.30	6.031	99.841	122.71
-6.072	99.770	-1.99	-5.999	99.772	21.30	-4.920	99.542	159.00	-4.800	99.352	-2.00	32+0.000			99.788	99.780	0.008	4.800	99.352	-2.00	4.920	99.542	159.00	5.999	99.772	21.30	6.034	99.808	104.01
-6.074	99.753	-4.87	-5.999	99.757	21.30	-4.920	99.527	159.00	-4.800	99.337	-2.00	32+1.078	PT		99.773	99.764	0.009	4.800	99.337	-2.00	4.920	99.527	159.00	5.999	99.757	21.30	6.035	99.792	97.50
-6.074	99.473	-4.87	-5.999	99.477	21.30	-4.920	99.247	159.00	-4.800	99.057	-2.00	33+0.000			99.493	99.478	0.015	4.800	99.057	-2.00	4.920	99.247	159.00	5.999	99.477	21.30	6.035	99.512	97.50
-6.074	99.421	-4.87	-5.999	99.425	21.30	-4.920	99.195	159.00	-4.800	99.005	-2.00	33+3.214	PC		99.441	99.437	0.004	4.800	99.005	-2.00	4.920	99.195	159.00	5.999	99.425	21.30	6.035	99.460	97.50
-6.074	99.410	-4.87	-5.999	99.414	21.30	-4.920	99.184	159.00	-4.800	98.994	-2.00	33+3.914			99.430	99.427	0.003	4.800	98.994	-2.00	4.920	99.184	159.00	5.999	99.414	21.30	6.035	99.449	97.50
-6.074	99.399	-4.87	-5.999	99.402	21.30	-4.920	99.172	159.00	-4.800	98.982	-2.00	33+4.613	PT	PTV	99.418	99.417	0.002	4.800	98.982	-2.00	4.920	99.172	159.00	5.999	99.402	21.30	6.035	99.437	97.50
-6.074	99.141	-4.87	-5.999	99.145	21.30	-4.920	98.915	159.00	-4.800	98.725	-2.00	34+0.000			99.161	99.222	-0.061	4.800	98.725	-2.00	4.920	98.915	159.00	5.999	99.145	21.30	6.035	99.180	97.50
-6.074	99.131	-4.87	-5.999	99.135	21.30	-4.920	98.905	159.00	-4.800	98.715	-2.00	34+0.599	PC		99.151	99.212	-0.061	4.800	98.715	-2.00	4.920	98.905	159.00	5.999	99.135	21.30	6.035	99.170	97.50
-6.025	99.072	182.98	-5.999	99.026	21.30	-4.920	98.796	159.00	-4.800	98.606	-2.00	34+7.089			99.042	99.099	-0.057	4.800	98.606	-2.00	4.920	98.796	159.00	5.999	99.026	21.30	6.052	99.147	231.40
-6.017	98.971	309.62	-5.999	98.917	21.30	-4.920	98.687	159.00	-4.800	98.497	-2.00	34+13.579	PT		98.933	98.975	-0.042	4.800	98.497	-2.00	4.920	98.687	159.00	5.999	98.917	21.30	6.027	99.014	349.85
-6.046	98.834	53.12	-5.999	98.809	21.30	-4.920	98.579	159.00	-4.800	98.389	-2.00	35+0.000		PCV	98.825	98.850	-0.025	4.800	98.389	-2.00	4.920	98.579	159.00	5.999	98.809	21.30	6.009	98.888	832.50
-6.010	98.596	584.46	-5.999	98.535	21.30	-4.920	98.305	159.00	-4.800	98.115	-2.00	36+0.000			98.551	98.569	-0.018	4.800	98.115	-2.00	4.920	98.305	159.00	5.999	98.535	21.30	6.025	98.581	178.97
-6.034	98.594	301.22	-5.999	98.491	21.30	-4.920	98.261	159.00	-4.800	98.071	-2.00	36+7.344	PC	PTV	98.507	98.559	-0.052	4.800	98.071	-2.00	4.920	98.261	159.00	5.999	98.491	21.30	6.007	98.555	898.03
-6.040	98.592	272.30	-5.999	98.483	21.30	-4.920	98.253	159.00	-4.800	98.063	-2.00	36+10.071			98.499	98.553	-0.054	4.800	98.063	-2.00	4.920	98.253	159.00	5.999	98.483	21.30	6.013	98.540	439.18
-6.045	98.589	253.26	-5.999	98.475	21.30	-4.920	98.245	159.00	-4.800	98.055	-2.00	36+12.799	PT		98.491	98.546	-0.054	4.800	98.055	-2.00	4.920	98.245	159.00	5.999	98.475	21.30	6.016	98.530	330.17
-6.045	98.570	253.26	-5.999	98.456	21.30	-4.920	98.226	159.00	-4.800	98.036	-2.00	37+0.000			98.472	98.520	-0.048	4.800	98.036	-2.00	4.920	98.226	159.00	5.999	98.456	21.30	6.016	98.511	330.17
-6.045	98.532	253.26	-5.999	98.418	21.30	-4.920	98.188	159.00	-4.800	97.998	-2.00	38+0.000			98.434	98.423	0.010	4.800	97.998	-2.00	4.920	98.188	159.00	5.999	98.418	21.30	6.016	98.472	330.17
-6.028	98.614	342.93	-5.999	98.517	21.30	-4.920	98.287	159.00	-4.800	98.097	-2.00	38+19.538	PC		98.533	98.543	-0.010	4.800	98.097	-2.00	4.920	98.287	159.00	5.999	98.517	21.30	6.103	98.484	-31.44
-6.028	98.617	342.67	-5.999	98.519	21.30	-4.920	98.289	159.00	-4.800	98.099	-2.00	39+0.000			98.535	98.545	-0.010	4.800	98.099	-2.00	4.920	98.289	159.00	5.999	98.519	21.30	6.103	98.487	-31.42
-6.028	98.617	342.61	-5.999	98.519	21.30	-4.920	98.289	159.00	-4.800	98.099	-2.00	39+0.074			98.535	98.546	-0.010	4.800	98.099	-2.00	4.920	98.289	159.00	5.999	98.519	21.30	6.103	98.487	-31.42
-6.028	98.620	342.14	-5.999	98.522	21.30	-4.920	98.292	159.00	-4.800	98.102	-2.00	39+0.610	PT		98.538	98.549	-0.011	4.800	98.102	-2.00	4.920	98.292	159.00	5.999	98.522	21.30	6.103	98.490	-31.39
-6.036	98.726	289.65	-5.999	98.620	21.30	-4.920	98.390	159.00	-4.800	98.200	-2.00	40+0.000			98.636	98.651	-0.014	4.800	98.200	-2.00	4.920	98.390	159.00	5.999	98.620	21.30	6.109	98.582	-35.35
-6.044	98.835	255.58	-5.999	98.722	21.30	-4.920	98.492	159.00	-4.800	98.302	-2.00	41+0.000			98.738	98.742	-0.004	4.800	98.302	-2.00	4.920	98.492	159.00	5.999	98.722	21.30	6.138	98.654	-48.70
-6.071	98.964	196.73	-5.999	98.823	21.30	-4.920	98.593	159.00	-4.800	98.403	-2.00	42+0.000			98.839	98.890	-0.051	4.800	98.403	-2.00	4.920	98.593	159.00	5.999	98.823	21.30	6.131	98.762	-46.12
-6.050	99.039	236.13	-5.999	98.919	21.30	-4.920	98.689	159.00	-4.800	98.499	-2.00	42+10.100	PC		98.935	99.002	-0.067	4.800	98.499	-2.00	4.920	98.689	159.00	5.999	98.919	21.30	6.115	98.874	-38.71
-6.024	99.070	381.25	-5.999	98.977	21.30	-4.920	98.747	159.00	-4.800	98.557	-2.00	42+14.247			98.993	99.036	-0.043	4.800	98.557	-2.00	4.920	98.747	159.00	5.999	98.977	21.30	6.135	98.913	-47.53
-6.006	99.111	1,110.47	-5.999	99.035	21.30	-4.920	98.805	159.00	-4.800	98.615	-2.00	42+18.394	PT		99.051	99.062	-0.012	4.800	98.615	-2.00	4.920	98.805	159.00	5.999	99.035	21.30	6.164	98.942	-56.71
			-5.999	99.057	21.30	-4.920	98.827	159.00	-4.800	98.637	-2.00	43+0.000			99.073	99.083	-0.010	4.800	98.637	-2.00	4.920	98.827	159.00	5.999	99.057	21.30	6.175	98.953	-59.46
			-5.999	99.336	21.30	-4.920	99.106	159.00	-4.800	98.916	-2.00	44+0.000		PCV	99.352	99.306	0.046	4.800	98.916	-2.00	4.920	99.106	159.00	5.999	99.336	21.30	6.175	99.232	-59.46
			-5.999	99.410	21.30	-4.920	99.180	159.00	-4.800	98.990	-2.00	44+17.533	PC		99.426	99.478	-0.051	4.800	98.990	-2.00	4.920	99.180	159.00	5.999	99.410	21.30	6.175	99.306	-59.46
			-5.999	99.401	21.30	-4.920	99.171	159.00	-4.800	98.981	-2.00	44+19.054			99.417	99.470	-0.054	4.800	98.981	-2.00	4.920	99.171	159.00	5.999	99.401	21.30	6.175	99.296	-59.46
			-5.999	99.393	21.30	-4.920	99.163	159.00	-4.800																				

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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	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			100.515	100.489	0.026																0.000	0.000	0.00						
1+0.000			100.588	100.503	0.085																0.000	0.000	0.00						
-4.630	100.616	-45.52	-4.499	100.675	21.30	-3.419	100.445	159.00	-3.300	100.255	-2.00	2+0.000			100.661	100.662	-0.001	3.300	100.255	-2.00	3.419	100.445	159.00	4.499	100.675	21.30	4.551	100.694	37.73
-4.587	100.731	-19.26	-4.499	100.748	21.30	-3.419	100.518	159.00	-3.300	100.328	-2.00	3+0.000			100.734	100.741	-0.007	3.300	100.328	-2.00	3.419	100.518	159.00	4.499	100.748	21.30	4.570	100.748	0.82
-4.570	100.820	0.09	-4.499	100.820	21.30	-3.419	100.590	159.00	-3.300	100.400	-2.00	4+0.000			100.806	100.788	0.018	3.300	100.400	-2.00	3.419	100.590	159.00	4.499	100.820	21.30	4.588	100.803	-19.43
-4.577	100.896	-8.88	-4.499	100.903	21.30	-3.419	100.673	159.00	-3.300	100.483	-2.00	5+0.000			100.889	100.905	-0.016	3.300	100.483	-2.00	3.419	100.673	159.00	4.499	100.903	21.30	4.552	100.921	34.63
-4.577	101.073	-8.88	-4.499	101.080	21.30	-3.419	100.850	159.00	-3.300	100.660	-2.00	6+0.000			101.066	100.972	0.094	3.300	100.660	-2.00	3.419	100.850	159.00	4.499	101.080	21.30	4.552	101.098	34.63
-4.577	101.187	-8.88	-4.499	101.193	21.30	-3.419	100.963	159.00	-3.300	100.773	-2.00	7+0.000			101.179	101.120	0.060	3.300	100.773	-2.00	3.419	100.963	159.00	4.499	101.193	21.30	4.552	101.212	34.63
-4.663	101.189	-56.57	-4.499	101.281	21.30	-3.419	101.051	159.00	-3.300	100.861	-2.00	8+0.000			101.267	101.266	0.001	3.300	100.861	-2.00	3.419	101.051	159.00	4.499	101.281	21.30	4.558	101.294	21.69
-4.642	101.404	-50.31	-4.499	101.476	21.30	-3.419	101.246	159.00	-3.300	101.056	-2.00	9+0.000		PCV	101.462	101.434	0.028	3.300	101.056	-2.00	3.419	101.246	159.00	4.499	101.476	21.30	4.572	101.474	-1.84
-4.609	101.663	-35.42	-4.499	101.702	21.30	-3.419	101.472	159.00	-3.300	101.282	-2.00	10+0.000			101.688	101.691	-0.003	3.300	101.282	-2.00	3.419	101.472	159.00	4.499	101.702	21.30	4.539	101.734	80.54
-4.600	101.818	-29.53	-4.499	101.847	21.30	-3.419	101.617	159.00	-3.300	101.427	-2.00	11+0.000		PTV	101.833	101.831	0.003	3.300	101.427	-2.00	3.419	101.617	159.00	4.499	101.847	21.30	4.556	101.862	25.68
-4.600	101.871	-29.53	-4.499	101.901	21.30	-3.419	101.671	159.00	-3.300	101.481	-2.00	12+0.000			101.887	101.849	0.038	3.300	101.481	-2.00	3.419	101.671	159.00	4.499	101.901	21.30	4.556	101.916	25.68
-4.600	101.896	-29.53	-4.499	101.926	21.30	-3.419	101.696	159.00	-3.300	101.506	-2.00	12+15.227			101.912	101.831	0.081	3.300	101.506	-2.00	3.419	101.696	159.00	4.499	101.926	21.30	4.556	101.940	25.68
-4.600	101.904	-29.53	-4.499	101.934	21.30	-3.419	101.704	159.00	-3.300	101.514	-2.00	13+0.000			101.920	101.859	0.061	3.300	101.514	-2.00	3.419	101.704	159.00	4.499	101.934	21.30	4.556	101.948	25.68
-4.600	101.895	-29.53	-4.499	101.925	21.30	-3.419	101.695	159.00	-3.300	101.505	-2.00	13+9.943		PCV	101.911	101.899	0.012	3.300	101.505	-2.00	3.419	101.695	159.00	4.499	101.925	21.30	4.556	101.939	25.68
-4.600	101.872	-29.53	-4.499	101.902	21.30	-3.419	101.672	159.00	-3.300	101.482	-2.00	14+0.000			101.888	101.819	0.068	3.300	101.482	-2.00	3.419	101.672	159.00	4.499	101.902	21.30	4.556	101.916	25.68
-4.568	101.924	3.51	-4.499	101.922	21.30	-3.419	101.692	159.00	-3.300	101.502	-2.00	15+0.000		PTV	101.908	101.927	-0.019	3.300	101.502	-2.00	3.419	101.692	159.00	4.499	101.922	21.30	4.563	101.929	11.70
-4.594	102.017	-24.76	-4.499	102.040	21.30	-3.419	101.810	159.00	-3.300	101.620	-2.00	16+0.000			102.026	101.989	0.037	3.300	101.620	-2.00	3.419	101.810	159.00	4.499	102.040	21.30	4.595	102.015	-25.73
-4.635	102.119	-47.63	-4.499	102.184	21.30	-3.419	101.954	159.00	-3.300	101.764	-2.00	17+0.000			102.170	102.122	0.048	3.300	101.764	-2.00	3.419	101.954	159.00	4.499	102.184	21.30	4.619	102.135	-40.75
-4.617	102.281	-39.71	-4.499	102.328	21.30	-3.419	102.098	159.00	-3.300	101.908	-2.00	18+0.000			102.314	102.281	0.033	3.300	101.908	-2.00	3.419	102.098	159.00	4.499	102.328	21.30	4.622	102.276	-42.11
-4.570	102.472	0.08	-4.499	102.472	21.30	-3.419	102.242	159.00	-3.300	102.052	-2.00	19+0.000			102.458	102.458	-0.001	3.300	102.052	-2.00	3.419	102.242	159.00	4.499	102.472	21.30	4.586	102.456	-17.83
-4.570	102.556	0.08	-4.499	102.556	21.30	-3.419	102.326	159.00	-3.300	102.136	-2.00	20+0.000			102.542	102.567	-0.025	3.300	102.136	-2.00	3.419	102.326	159.00	4.499	102.556	21.30	4.586	102.541	-17.83
-4.570	102.549	0.08	-4.499	102.549	21.30	-3.419	102.319	159.00	-3.300	102.129	-2.00	20+1.963			102.535	102.552	-0.017	3.300	102.129	-2.00	3.419	102.319	159.00	4.499	102.549	21.30	4.586	102.534	-17.83
-4.570	102.655	0.08	-4.499	102.655	21.30	-3.419	102.425	159.00	-3.300	102.235	-2.00	21+0.000			102.641	102.577	0.063	3.300	102.235	-2.00	3.419	102.425	159.00	4.499	102.655	21.30	4.586	102.639	-17.83
-4.570	102.775	0.31	-4.499	102.775	21.30	-3.419	102.545	159.00	-3.300	102.355	-2.00	22+0.000		PCV	102.761	102.694	0.067	3.300	102.355	-2.00	3.419	102.545	159.00	4.499	102.775	21.30	4.694	102.652	-63.45
-4.618	102.848	-40.12	-4.499	102.895	21.30	-3.419	102.665	159.00	-3.300	102.475	-2.00	23+0.000			102.881	102.832	0.050	3.300	102.475	-2.00	3.419	102.665	159.00	4.499	102.895	21.30	4.624	102.842	-42.76
-4.613	102.984	-37.19	-4.499	103.026	21.30	-3.419	102.796	159.002																					

-4.536	103.704	96.37	-4.499	103.669	21.30	-3.419	103.439	159.00	-3.300	103.249	-2.00	46+0.000		PTV	103.655	103.726	-0.071	3.300	103.249	-2.00	3.419	103.439	159.00	4.499	103.669	21.30	4.518	103.757	474.91
-4.611	103.780	-36.45	-4.499	103.821	21.30	-3.419	103.591	159.00	-3.300	103.401	-2.00	47+0.000			103.807	103.798	0.009	3.300	103.401	-2.00	3.419	103.591	159.00	4.499	103.821	21.30	4.545	103.847	56.69
-4.635	103.775	-47.75	-4.499	103.840	21.30	-3.419	103.610	159.00	-3.300	103.420	-2.00	47+2.466			103.826	103.802	0.024	3.300	103.420	-2.00	3.419	103.610	159.00	4.499	103.840	21.30	4.552	103.859	36.43
-4.661	103.883	-56.01	-4.499	103.973	21.30	-3.419	103.743	159.00	-3.300	103.553	-2.00	48+0.000			103.959	103.880	0.080	3.300	103.553	-2.00	3.419	103.743	159.00	4.499	103.973	21.30	4.606	103.938	-33.38
-4.567	104.130	5.36	-4.499	104.126	21.30	-3.419	103.896	159.00	-3.300	103.706	-2.00	49+0.000			104.112	104.057	0.055	3.300	103.706	-2.00	3.419	103.896	159.00	4.499	104.126	21.30			
-4.553	104.213	33.87	-4.499	104.195	21.30	-3.419	103.965	159.00	-3.300	103.775	-2.00	49+9.103			104.181	104.125	0.056	3.300	103.775	-2.00	3.419	103.965	159.00	4.499	104.195	21.30			
-4.522	104.327	209.65	-4.499	104.278	21.30	-3.419	104.048	159.00	-3.300	103.858	-2.00	50+0.000			104.264	104.219	0.045	3.300	103.858	-2.00	3.419	104.048	159.00	4.499	104.278	21.30			
-4.523	104.465	392.32	-4.499	104.372	21.30	-3.419	104.142	159.00	-3.300	103.952	-2.00	50+12.283			104.358	104.339	0.019	3.300	103.952	-2.00	3.419	104.142	159.00	4.499	104.372	21.30			
-4.525	104.476	177.60	-4.499	104.431	21.30	-3.419	104.201	159.00	-3.300	104.011	-2.00	51+0.000		PCV	104.417	104.357	0.060	3.300	104.011	-2.00	3.419	104.201	159.00	4.499	104.431	21.30			
-4.591	104.553	-22.65	-4.499	104.573	21.30	-3.419	104.343	159.00	-3.300	104.153	-2.00	52+0.000			104.559	104.556	0.004	3.300	104.153	-2.00	3.419	104.343	159.00	4.499	104.573	21.30			
-4.596	104.563	-26.63	-4.499	104.588	21.30	-3.419	104.358	159.00	-3.300	104.168	-2.00	52+2.628			104.574	104.562	0.012	3.300	104.168	-2.00	3.419	104.358	159.00	4.499	104.588	21.30			
-4.642	104.593	-50.19	-4.499	104.664	21.30	-3.419	104.434	159.00	-3.300	104.244	-2.00	53+0.000		PTV	104.650	104.586	0.064	3.300	104.244	-2.00	3.419	104.434	159.00	4.499	104.664	21.30			
-4.630	104.646	-45.39	-4.499	104.705	21.30	-3.419	104.475	159.00	-3.300	104.285	-2.00	54+0.000			104.691	104.643	0.048	3.300	104.285	-2.00	3.419	104.475	159.00	4.499	104.705	21.30			
-4.568	104.740	4.28	-4.499	104.737	21.30	-3.419	104.507	159.00	-3.300	104.317	-2.00	55+0.000			104.723	104.713	0.010	3.300	104.317	-2.00	3.419	104.507	159.00	4.499	104.737	21.30			
-4.515	104.803	349.64	-4.499	104.748	21.30	-3.419	104.518	159.00	-3.300	104.328	-2.00	55+6.783			104.734	104.734	0.000	3.300	104.328	-2.00	3.419	104.518	159.00	4.499	104.748	21.30			


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

Sem Escala



RUA D (CID. UNIV.) RUA D (CID. UNIV.) 0+0.000 32+9.864

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. (%)
-6.035	102.584	101.53	-5.999	102.548	21.30	-4.920	102.318	159.00	-4.800	102.128	-2.00	0+0.000			102.564	102.564	0.000	4.800	102.128	-2.00	4.920	102.318	159.00	5.999	102.548	21.30	6.096	102.522	-26.78
-6.085	102.569	-16.90	-5.999	102.584	21.30	-4.920	102.354	159.00	-4.800	102.164	-2.00	1+0.000			102.600	102.587	0.013	4.800	102.164	-2.00	4.920	102.354	159.00	5.999	102.584	21.30	6.069	102.586	2.76
-6.075	102.585	-6.13	-5.999	102.589	21.30	-4.920	102.359	159.00	-4.800	102.169	-2.00	1+2.994	PC		102.605	102.602	0.003	4.800	102.169	-2.00	4.920	102.359	159.00	5.999	102.589	21.30	6.059	102.601	20.18
-6.070	102.593	1.42	-5.999	102.592	21.30	-4.920	102.362	159.00	-4.800	102.172	-2.00	1+4.792			102.608	102.609	-0.001	4.800	102.172	-2.00	4.920	102.362	159.00	5.999	102.592	21.30	6.052	102.611	34.38
-6.064	102.602	10.37	-5.999	102.596	21.30	-4.920	102.366	159.00	-4.800	102.176	-2.00	1+6.590	PT		102.612	102.623	-0.012	4.800	102.176	-2.00	4.920	102.366	159.00	5.999	102.596	21.30	6.047	102.620	51.01
-6.049	102.642	44.44	-5.999	102.620	21.30	-4.920	102.390	159.00	-4.800	102.200	-2.00	2+0.000			102.636	102.705	-0.070	4.800	102.200	-2.00	4.920	102.390	159.00	5.999	102.620	21.30	6.006	102.684	987.27
-6.275	102.449	-74.20	-5.999	102.653	21.30	-4.920	102.423	159.00	-4.800	102.233	-2.00	2+18.493	PC		102.669	102.783	-0.114	4.800	102.233	-2.00	4.920	102.423	159.00	5.999	102.653	21.30	6.150	102.873	145.81
-6.264	102.461	-73.20	-5.999	102.655	21.30	-4.920	102.425	159.00	-4.800	102.235	-2.00	2+19.455			102.671	102.783	-0.112	4.800	102.235	-2.00	4.920	102.425	159.00	5.999	102.655	21.30	6.140	102.864	149.23
-6.257	102.470	-72.38	-5.999	102.656	21.30	-4.920	102.426	159.00	-4.800	102.236	-2.00	3+0.000			102.672	102.770	-0.099	4.800	102.236	-2.00	4.920	102.426	159.00	5.999	102.656	21.30	6.133	102.859	151.55
-6.251	102.476	-71.72	-5.999	102.656	21.30	-4.920	102.426	159.00	-4.800	102.236	-2.00	3+0.417	PT		102.672	102.760	-0.087	4.800	102.236	-2.00	4.920	102.426	159.00	5.999	102.656	21.30	6.129	102.854	153.47
-6.124	102.638	-43.15	-5.999	102.692	21.30	-4.920	102.462	159.00	-4.800	102.272	-2.00	4+0.000			102.708	102.745	-0.038	4.800	102.272	-2.00	4.920	102.462	159.00	5.999	102.692	21.30	6.017	102.778	499.49
-6.029	102.764	138.35	-5.999	102.722	21.30	-4.920	102.492	159.00	-4.800	102.302	-2.00	4+17.100	PC		102.738	102.764	-0.026	4.800	102.302	-2.00	4.920	102.492	159.00	5.999	102.722	21.30	6.032	102.761	119.23
-6.016	102.780	328.07	-5.999	102.726	21.30	-4.920	102.496	159.00	-4.800	102.306	-2.00	4+19.172			102.742	102.768	-0.026	4.800	102.306	-2.00	4.920	102.496	159.00	5.999	102.726	21.30	6.037	102.760	90.32
-6.011	102.787	526.70	-5.999	102.728	21.30	-4.920	102.498	159.00	-4.800	102.308	-2.00	5+0.000			102.744	102.769	-0.026	4.800	102.308	-2.00	4.920	102.498	159.00	5.999	102.728	21.30	6.039	102.759	80.78
			-5.999	102.730	21.30	-4.920	102.500	159.00	-4.800	102.310	-2.00	5+1.245	PT	PCV	102.746	102.771	-0.025	4.800	102.310	-2.00	4.920	102.500	159.00	5.999	102.730	21.30	6.042	102.759	68.11
-6.031	102.857	315.86	-5.999	102.756	21.30	-4.920	102.526	159.00	-4.800	102.336	-2.00	6+0.000			102.772	102.769	0.003	4.800	102.336	-2.00	4.920	102.526	159.00	5.999	102.756	21.30	6.082	102.745	-13.85
			-5.999	102.766	21.30	-4.920	102.536	159.00	-4.800	102.346	-2.00	6+15.477	PC		102.782	102.704	0.078	4.800	102.346	-2.00	4.920	102.536	159.00	5.999	102.766	21.30	6.099	102.738	-28.41
-6.019	102.818	255.41	-5.999	102.767	21.30	-4.920	102.537	159.00	-4.800	102.347	-2.00	6+18.543			102.783	102.690	0.093	4.800	102.347	-2.00	4.920	102.537	159.00	5.999	102.767	21.30	6.073	102.765	-2.99
-6.031	102.807	127.24	-5.999	102.767	21.30	-4.920	102.537	159.00	-4.800	102.347	-2.00	7+0.000			102.783	102.701	0.082	4.800	102.347	-2.00	4.920	102.537	159.00	5.999	102.767	21.30	6.075	102.763	-6.00
-6.041	102.797	73.13	-5.999	102.767	21.30	-4.920	102.537	159.00	-4.800	102.347	-2.00	7+1.609	PT	PTV	102.783	102.710	0.073	4.800	102.347	-2.00	4.920	102.537	159.00	5.999	102.767	21.30	6.079	102.758	-11.17
-6.093	102.740	-24.05	-5.999	102.762	21.30	-4.920	102.532	159.00	-4.800	102.342	-2.00	8+0.000			102.778	102.767	0.011	4.800	102.342	-2.00	4.920	102.532	159.00	5.999	102.762	21.30	6.095	102.738	-25.66
-6.099	102.663	-28.42	-5.999	102.691	21.30	-4.920	102.461	159.00	-4.800	102.271	-2.00	8+17.060	PC		102.707	102.720	-0.012	4.800	102.271	-2.00	4.920	102.461	159.00	5.999	102.691	21.30	6.057	102.705	23.58
-6.091	102.662	-22.63	-5.999	102.682	21.30	-4.920	102.452	159.00	-4.800	102.262	-2.00	8+18.219			102.698	102.712	-0.013	4.800	102.262	-2.00	4.920	102.452	159.00	5.999	102.682	21.30	6.053	102.700	32.35
-6.077	102.666	-8.88	-5.999	102.673	21.30	-4.920	102.443	159.00	-4.800	102.253	-2.00	8+19.379	PT		102.689	102.704	-0.015	4.800	102.253	-2.00	4.920	102.443	159.00	5.999	102.673	21.30	6.049	102.695	43.18
-6.070	102.669	0.81	-5.999	102.668	21.30	-4.920	102.438	159.00	-4.800	102.248	-2.00	9+0.000		PCV	102.684	102.701	-0.016	4.800	102.248	-2.00	4.920	102.438	159.00	5.999	102.668	21.30	6.047	102.692	49.44
-6.070	102.528	0.81	-5.999	102.527	21.30	-4.920	102.297	159.00	-4.800	102.107	-2.00	10+0.000			102.543	102.580	-0.037	4.800	102.107	-2.00	4.920	102.297	159.00	5.999	102.527	21.30	6.047	102.551	49.44
-6.070	102.521	0.81	-5.999	102.521	21.30	-4.920	102.291	159.00	-4.800	102.101	-2.00	10+1.510	PC		102.537	102.559	-0.												

-6.019	103.243	454.54	-5.999	103.155	21.30	-4.920	102.925	159.00	-4.800	102.735	-2.00	23+0.095		PCV	103.171	103.236	-0.065	4.800	102.735	-2.00	4.920	102.925	159.00	5.999	103.155	21.30	6.005	103.220	1,124.76
			-5.999	103.163	21.30	-4.920	102.933	159.00	-4.800	102.743	-2.00	23+3.102	PT		103.179	103.228	-0.049	4.800	102.743	-2.00	4.920	102.933	159.00	5.999	103.163	21.30	6.022	103.211	209.09
-6.060	103.200	18.19	-5.999	103.189	21.30	-4.920	102.959	159.00	-4.800	102.769	-2.00	24+0.000			103.205	103.187	0.018	4.800	102.769	-2.00	4.920	102.959	159.00	5.999	103.189	21.30	6.090	103.169	-21.97
-6.089	103.154	-21.08	-5.999	103.173	21.30	-4.920	102.943	159.00	-4.800	102.753	-2.00	25+0.000			103.189	103.144	0.046	4.800	102.753	-2.00	4.920	102.943	159.00	5.999	103.173	21.30	6.130	103.114	-45.60
-6.075	103.104	-5.48	-5.999	103.108	21.30	-4.920	102.878	159.00	-4.800	102.688	-2.00	26+0.000			103.124	103.082	0.041	4.800	102.688	-2.00	4.920	102.878	159.00	5.999	103.108	21.30	6.136	103.043	-47.83
-6.041	103.124	264.88	-5.999	103.013	21.30	-4.920	102.783	159.00	-4.800	102.593	-2.00	26+16.916	PC		103.029	102.966	0.063	4.800	102.593	-2.00	4.920	102.783	159.00	5.999	103.013	21.30	6.071	103.013	-0.53
-6.043	103.124	258.50	-5.999	103.011	21.30	-4.920	102.781	159.00	-4.800	102.591	-2.00	26+17.218			103.027	102.965	0.062	4.800	102.591	-2.00	4.920	102.781	159.00	5.999	103.011	21.30	6.069	103.012	1.89
-6.045	103.123	252.60	-5.999	103.009	21.30	-4.920	102.779	159.00	-4.800	102.589	-2.00	26+17.520	PT		103.025	102.964	0.061	4.800	102.589	-2.00	4.920	102.779	159.00	5.999	103.009	21.30	6.067	103.012	4.44
-6.059	103.121	215.91	-5.999	102.992	21.30	-4.920	102.762	159.00	-4.800	102.572	-2.00	27+0.000		PTV	103.008	102.975	0.033	4.800	102.572	-2.00	4.920	102.762	159.00	5.999	102.992	21.30	6.056	103.006	24.62
-6.018	102.915	473.39	-5.999	102.827	21.30	-4.920	102.597	159.00	-4.800	102.407	-2.00	28+0.000			102.843	102.904	-0.060	4.800	102.407	-2.00	4.920	102.597	159.00	5.999	102.827	21.30	6.049	102.849	43.15
			-5.999	102.646	21.30	-4.920	102.416	159.00	-4.800	102.226	-2.00	29+0.000			102.662	102.709	-0.047	4.800	102.226	-2.00	4.920	102.416	159.00	5.999	102.646	21.30	6.035	102.681	98.82
-6.008	102.527	712.23	-5.999	102.465	21.30	-4.920	102.235	159.00	-4.800	102.045	-2.00	30+0.000			102.481	102.515	-0.034	4.800	102.045	-2.00	4.920	102.235	159.00	5.999	102.465	21.30	6.035	102.500	98.52
-6.010	102.481	589.69	-5.999	102.420	21.30	-4.920	102.190	159.00	-4.800	102.000	-2.00	30+4.889	PC		102.436	102.467	-0.031	4.800	102.000	-2.00	4.920	102.190	159.00	5.999	102.420	21.30	6.038	102.453	82.33
-6.010	102.474	587.99	-5.999	102.413	21.30	-4.920	102.183	159.00	-4.800	101.993	-2.00	30+5.658			102.429	102.460	-0.031	4.800	101.993	-2.00	4.920	102.183	159.00	5.999	102.413	21.30	6.039	102.445	79.00
-6.010	102.467	586.66	-5.999	102.407	21.30	-4.920	102.177	159.00	-4.800	101.987	-2.00	30+6.427	PT		102.423	102.453	-0.030	4.800	101.987	-2.00	4.920	102.177	159.00	5.999	102.407	21.30	6.040	102.437	75.83
-6.031	102.323	123.47	-5.999	102.284	21.30	-4.920	102.054	159.00	-4.800	101.864	-2.00	31+0.000			102.300	102.313	-0.014	4.800	101.864	-2.00	4.920	102.054	159.00	5.999	102.284	21.30	6.049	102.305	42.21
-6.031	102.175	123.47	-5.999	102.135	21.30	-4.920	101.905	159.00	-4.800	101.715	-2.00	32+0.000			102.151	102.133	0.018	4.800	101.715	-2.00	4.920	101.905	159.00	5.999	102.135	21.30	6.049	102.157	42.21
-6.031	102.117	123.47	-5.999	102.078	21.30	-4.920	101.848	159.00	-4.800	101.658	-2.00	32+9.864			102.094	102.108	-0.014	4.800	101.658	-2.00	4.920	101.848	159.00	5.999	102.078	21.30	6.049	102.099	42.21


Victor Leonardo Acioli Barros
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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 C (CID. UNIV.) RUA C (CID. UNIV.) 0+0.000 79+19.681

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			99.811	99.789	0.023																0.000	0.000	0.00						
1+0.000			99.853	99.832	0.020																0.000	0.000	0.00						
-6.069	99.864	1.46	-5.999	99.863	21.30	-4.920	99.633	159.00	-4.800	99.443	-2.00	2+0.000		PCV	99.879	99.834	0.045	4.800	99.443	-2.00	4.920	99.633	159.00	5.999	99.863	21.30	6.147	99.786	-52.01
-6.053	99.893	33.40	-5.999	99.875	21.30	-4.920	99.645	159.00	-4.800	99.455	-2.00	3+0.000			99.891	99.861	0.030	4.800	99.455	-2.00	4.920	99.645	159.00	5.999	99.875	21.30	6.176	99.769	-59.84
-6.027	99.868	153.57	-5.999	99.825	21.30	-4.920	99.595	159.00	-4.800	99.405	-2.00	4+0.000			99.841	99.848	-0.007	4.800	99.405	-2.00	4.920	99.595	159.00	5.999	99.825	21.30	6.098	99.797	-28.13
-6.013	99.765	412.65	-5.999	99.708	21.30	-4.920	99.478	159.00	-4.800	99.288	-2.00	5+0.000		PTV	99.724	99.692	0.032	4.800	99.288	-2.00	4.920	99.478	159.00	5.999	99.708	21.30	6.167	99.612	-57.53
-6.013	99.596	412.65	-5.999	99.539	21.30	-4.920	99.309	159.00	-4.800	99.119	-2.00	6+0.000		PCV	99.555	99.571	-0.016	4.800	99.119	-2.00	4.920	99.309	159.00	5.999	99.539	21.30	6.167	99.443	-57.53
-6.013	99.460	412.65	-5.999	99.403	21.30	-4.920	99.173	159.00	-4.800	98.983	-2.00	7+0.000			99.419	99.399	0.020	4.800	98.983	-2.00	4.920	99.173	159.00	5.999	99.403	21.30	6.167	99.307	-57.53
-6.063	99.520	207.98	-5.999	99.387	21.30	-4.920	99.157	159.00	-4.800	98.967	-2.00	8+0.000		PTV	99.403	99.445	-0.042	4.800	98.967	-2.00	4.920	99.157	159.00	5.999	99.387	21.30	6.094	99.364	-24.47
-6.062	99.539	209.65	-5.999	99.407	21.30	-4.920	99.177	159.00	-4.800	98.987	-2.00	9+0.000			99.423	99.463	-0.040	4.800	98.987	-2.00	4.920	99.177	159.00	5.999	99.407	21.30	6.079	99.398	-10.72
-6.073	99.570	194.38	-5.999	99.428	21.30	-4.920	99.198	159.00	-4.800	99.008	-2.00	10+0.000			99.444	99.506	-0.062	4.800	99.008	-2.00	4.920	99.198	159.00	5.999	99.428	21.30	6.048	99.451	47.19
-6.059	99.578	215.13	-5.999	99.449	21.30	-4.920	99.219	159.00	-4.800	99.029	-2.00	11+0.000			99.465	99.533	-0.068	4.800	99.029	-2.00	4.920	99.219	159.00	5.999	99.449	21.30	6.011	99.509	540.16
-6.035	99.575	293.76	-5.999	99.470	21.30	-4.920	99.240	159.00	-4.800	99.050	-2.00	12+0.000			99.486	99.554	-0.068	4.800	99.050	-2.00	4.920	99.240	159.00	5.999	99.470	21.30	6.015	99.554	559.94
-6.029	99.533	142.44	-5.999	99.491	21.30	-4.920	99.261	159.00	-4.800	99.071	-2.00	13+0.000			99.507	99.544	-0.037	4.800	99.071	-2.00	4.920	99.261	159.00	5.999	99.491	21.30			
-6.034	99.530	103.49	-5.999	99.494	21.30	-4.920	99.264	159.00	-4.800	99.074	-2.00	13+2.542		PCV	99.510	99.543	-0.032	4.800	99.074	-2.00	4.920	99.264	159.00	5.999	99.494	21.30	6.009	99.556	672.92
-6.089	99.511	-21.00	-5.999	99.530	21.30	-4.920	99.300	159.00	-4.800	99.110	-2.00	14+0.000			99.546	99.558	-0.012	4.800	99.110	-2.00	4.920	99.300	159.00	5.999	99.530	21.30			
-6.087	99.515	-18.50	-5.999	99.531	21.30	-4.920	99.301	159.00	-4.800	99.111	-2.00	14+0.457			99.547	99.563	-0.015	4.800	99.111	-2.00	4.920	99.301	159.00	5.999	99.531	21.30	6.006	99.607	1,173.85
-6.008	99.702	875.09	-5.999	99.624	21.30	-4.920	99.394	159.00	-4.800	99.204	-2.00	15+0.000		PTV	99.640	99.684	-0.044	4.800	99.204	-2.00	4.920	99.394	159.00	5.999	99.624	21.30	6.016	99.710	511.21
			-5.999	99.752	21.30	-4.920	99.522	159.00	-4.800	99.332	-2.00	16+0.000		PCV	99.768	99.797	-0.028	4.800	99.332	-2.00	4.920	99.522	159.00	5.999	99.752	21.30			
-6.017	99.929	297.20	-5.999	99.876	21.30	-4.920	99.646	159.00	-4.800	99.456	-2.00	17+0.000			99.892	99.902	-0.010	4.800	99.456	-2.00	4.920	99.646	159.00	5.999	99.876	21.30	6.045	99.901	54.40
-6.007	100.016	821.67	-5.999	99.953	21.30	-4.920	99.723	159.00	-4.800	99.533	-2.00	18+0.000		PTV	99.969	99.989	-0.021	4.800	99.533	-2.00	4.920	99.723	159.00	5.999	99.953	21.30	6.049	99.974	43.44
-6.017	100.072	496.36	-5.999	99.985	21.30	-4.920	99.755	159.00	-4.800	99.565	-2.00	19+0.000			100.001	100.048	-0.047	4.800	99.565	-2.00	4.920	99.755	159.00	5.999	99.985	21.30	6.021	100.035	230.06
-6.020	100.102	441.95	-5.999	100.013	21.30	-4.920	99.783	159.00	-4.800	99.593	-2.00	20+0.000			100.029	100.073	-0.044	4.800	99.593	-2.00	4.920	99.783	159.00	5.999	100.013	21.30	6.006	100.089	1,157.40
-6.020	100.125	441.95	-5.999	100.036	21.30	-4.920	99.806	159.00	-4.800	99.616	-2.00	20+15.927			100.052	100.117	-0.065	4.800	99.616	-2.00	4.920	99.806	159.00	5.999	100.036	21.30	6.006	100.111	1,157.40
-6.020	100.131	441.95	-5.999	100.041	21.30	-4.920	99.811	159.00	-4.800	99.621	-2.00	21+0.000			100.057	100.029	0.029	4.800	99.621	-2.00	4.920	99.811	159.00	5.999	100.041	21.30	6.006	100.117	1,157.40
-6.020	100.136	441.95	-5.999	100.047	21.30	-4.920	99.817	159.00	-4.800	99.627	-2.00	21+4.094			100.063	100.006	0.057	4.800	99.627	-2.00	4.920	99.817	159.00	5.999	100.047	21.30	6.006	100.123	1,157.40
-6.020	100.220	441.95	-5.999	100.131	21.30	-4.920	99.901	159.00	-4.800	99.711	-2.00	22+0.000			100.147	100.260	-0.113	4.800	99.711	-2.00	4.920	99.901	159.00	5.999	100.131	21.30	6.006	100.206	1,157.40
-6.136	100.494	150.57	-5.999	100.289	21.30	-4.920	100.059	159.00	-4.800	99.869	-2.00	22+12.905			100.305	100.447	-0.142	4.800	99.869	-2.00	4.920	100.059	159.00	5.999	100.289	21.30	6.080	100.439	185.71
-6.133	100.578	151.85	-5.999	100.376	21.30	-4.920	100.146	159.00	-4.800	99.956	-2.00	23+0.000			100.392	100.536	-0.144	4.800	99.956	-2.00	4.920	10							

-6.015	101.824	348.01	-5.999	101.769	21.30	-4.920	101.539	159.00	-4.800	101.349	-2.00	37+0.000		PCV	101.785	101.799	-0.014	4.800	101.349	-2.00	4.920	101.539	159.00	5.999	101.769	21.30	6.068	101.771	3.50
			-5.999	101.865	21.30	-4.920	101.635	159.00	-4.800	101.445	-2.00	38+0.000			101.881	101.896	-0.015	4.800	101.445	-2.00	4.920	101.635	159.00	5.999	101.865	21.30	6.068	101.867	3.61
-6.070	102.090	197.84	-5.999	101.950	21.30	-4.920	101.720	159.00	-4.800	101.530	-2.00	39+0.000			101.966	101.948	0.018	4.800	101.530	-2.00	4.920	101.720	159.00	5.999	101.950	21.30	6.072	101.949	-2.30
-6.021	102.073	415.56	-5.999	101.982	21.30	-4.920	101.752	159.00	-4.800	101.562	-2.00	39+8.776			101.998	102.018	-0.020	4.800	101.562	-2.00	4.920	101.752	159.00	5.999	101.982	21.30	6.065	101.987	8.43
-6.007	102.093	1,078.98	-5.999	102.017	21.30	-4.920	101.787	159.00	-4.800	101.597	-2.00	40+0.000			102.033	102.056	-0.022	4.800	101.597	-2.00	4.920	101.787	159.00	5.999	102.017	21.30	6.055	102.032	27.22
-6.007	102.142	1,078.98	-5.999	102.066	21.30	-4.920	101.836	159.00	-4.800	101.646	-2.00	41+0.000			102.082	102.095	-0.013	4.800	101.646	-2.00	4.920	101.836	159.00	5.999	102.066	21.30	6.055	102.081	27.22
-6.007	102.154	1,078.98	-5.999	102.078	21.30	-4.920	101.848	159.00	-4.800	101.658	-2.00	41+6.683		PTV	102.094	102.108	-0.014	4.800	101.658	-2.00	4.920	101.848	159.00	5.999	102.078	21.30	6.055	102.093	27.22
-6.007	102.174	1,078.98	-5.999	102.098	21.30	-4.920	101.868	159.00	-4.800	101.678	-2.00	42+0.000			102.114	102.114	0.000	4.800	101.678	-2.00	4.920	101.868	159.00	5.999	102.098	21.30	6.055	102.113	27.22
-6.007	102.202	1,070.73	-5.999	102.126	21.30	-4.920	101.896	159.00	-4.800	101.706	-2.00	43+0.000		PCV	102.142	102.158	-0.016	4.800	101.706	-2.00	4.920	101.896	159.00	5.999	102.126	21.30	6.030	102.166	131.67
			-5.999	102.164	21.30	-4.920	101.934	159.00	-4.800	101.744	-2.00	44+0.000			102.180	102.195	-0.015	4.800	101.744	-2.00	4.920	101.934	159.00	5.999	102.164	21.30	6.030	102.205	133.23
-6.006	102.262	1,245.80	-5.999	102.187	21.30	-4.920	101.957	159.00	-4.800	101.767	-2.00	44+6.807			102.203	102.204	-0.001	4.800	101.767	-2.00	4.920	101.957	159.00	5.999	102.187	21.30	6.047	102.211	50.42
-6.010	102.328	748.78	-5.999	102.248	21.30	-4.920	102.018	159.00	-4.800	101.828	-2.00	45+0.000			102.264	102.226	0.038	4.800	101.828	-2.00	4.920	102.018	159.00	5.999	102.248	21.30	6.093	102.225	-24.10
-6.012	102.438	458.20	-5.999	102.380	21.30	-4.920	102.150	159.00	-4.800	101.960	-2.00	46+0.000		PTV	102.396	102.436	-0.040	4.800	101.960	-2.00	4.920	102.150	159.00	5.999	102.380	21.30	6.025	102.475	371.11
-6.039	102.591	80.00	-5.999	102.559	21.30	-4.920	102.329	159.00	-4.800	102.139	-2.00	47+0.000		PCV	102.575	102.634	-0.059	4.800	102.139	-2.00	4.920	102.329	159.00	5.999	102.559	21.30	6.057	102.685	220.95
-6.065	102.706	7.96	-5.999	102.701	21.30	-4.920	102.471	159.00	-4.800	102.281	-2.00	47+15.424			102.717	102.796	-0.079	4.800	102.281	-2.00	4.920	102.471	159.00	5.999	102.701	21.30	6.097	102.867	170.96
-6.098	102.694	-27.74	-5.999	102.722	21.30	-4.920	102.492	159.00	-4.800	102.302	-2.00	47+18.385			102.738	102.810	-0.072	4.800	102.302	-2.00	4.920	102.492	159.00	5.999	102.722	21.30			
-6.115	102.688	-38.49	-5.999	102.732	21.30	-4.920	102.502	159.00	-4.800	102.312	-2.00	47+19.986			102.748	102.813	-0.065	4.800	102.312	-2.00	4.920	102.502	159.00	5.999	102.732	21.30			
-6.106	102.697	-33.16	-5.999	102.732	21.30	-4.920	102.502	159.00	-4.800	102.312	-2.00	48+0.000			102.748	102.813	-0.065	4.800	102.312	-2.00	4.920	102.502	159.00	5.999	102.732	21.30			
-6.131	102.680	-46.01	-5.999	102.741	21.30	-4.920	102.511	159.00	-4.800	102.321	-2.00	48+1.487			102.757	102.801	-0.045	4.800	102.321	-2.00	4.920	102.511	159.00	5.999	102.741	21.30			
-6.158	102.664	-55.24	-5.999	102.752	21.30	-4.920	102.522	159.00	-4.800	102.332	-2.00	48+3.511			102.768	102.783	-0.015	4.800	102.332	-2.00	4.920	102.522	159.00	5.999	102.752	21.30			
-6.171	102.660	-58.53	-5.999	102.761	21.30	-4.920	102.531	159.00	-4.800	102.341	-2.00	48+5.327			102.777	102.763	0.014	4.800	102.341	-2.00	4.920	102.531	159.00	5.999	102.761	21.30			
-6.174	102.663	-59.24	-5.999	102.766	21.30	-4.920	102.536	159.00	-4.800	102.346	-2.00	48+6.607			102.782	102.758	0.024	4.800	102.346	-2.00	4.920	102.536	159.00	5.999	102.766	21.30			
-6.181	102.664	-60.92	-5.999	102.774	21.30	-4.920	102.544	159.00	-4.800	102.354	-2.00	48+8.747			102.790	102.760	0.030	4.800	102.354	-2.00	4.920	102.544	159.00	5.999	102.774	21.30	6.014	102.831	379.61
-6.195	102.670	-63.70	-5.999	102.795	21.30	-4.920	102.565	159.00	-4.800	102.375	-2.00	49+0.000		PTV	102.811	102.718	0.093	4.800	102.375	-2.00	4.920	102.565	159.00	5.999	102.795	21.30	6.082	102.784	-13.53
-6.204	102.605	-65.33	-5.999	102.739	21.30	-4.920	102.509	159.00	-4.800	102.319	-2.00	50+0.000			102.755	102.659	0.096	4.800	102.319	-2.00	4.920	102.509	159.00	5.999	102.739	21.30	6.097	102.712	-27.26
-6.181	102.530	-60.99	-5.999	102.641	21.30	-4.920	102.411	159.00	-4.800	102.221	-2.00	51+0.000			102.657	102.580	0.076	4.800	102.221	-2.00	4.920	102.411	159.00	5.999	102.641	21.30	6.072	102.640	-1.77
-6.170	102.495	-58.40	-5.999	102.595	21.30	-4.920	102.365	159.00	-4.800	102.175	-2.00	51+9.375			102.611	102.543	0.067	4.800	102.175	-2.00	4.920	102.365	159.00	5.999	102.595	21.30	6.062	102.603	12.99
-6.135	102.478	-47.77	-5.999	102.543	21.30	-4.920	102.313	159.00	-4.800	102.123	-2.00	52+0.000		PCV	102.559	102.502	0.056	4.800	102.123	-2.00	4.920	102.313	159.00	5.999	102.543	21.30	6.051	102.562	38.87
-6.185	102.339	-61.73	-5.999	102.453	21.30	-4.920	102.223	159.00	-4.800	102.033	-2.00	53+0.000			102.469	102.406	0.063	4.800	102.033	-2.00	4.920	102.223	159.00	5.999	102.453	21.30	6.032	102.492	118.62
-6.070	102.460	1.21	-5.999	102.459	21.30	-4.920	102.229	159.00	-4.800	102.039	-2.00	54+0.000			102.475	102.499	-0.024	4.800	102.039	-2.00	4.920	102.229	159.00	5.999	102.459	21.30	6.042	102.571	260.90
-6.047	102.700	246.06	-5.999	102.584	21.30	-4.920	102.354	159.00	-4.800	102.164	-2.00	55+0.000		PTV	102.600	102.715	-0.115	4.800	102.164	-2.00	4.920	102.354	159.00	5.999	102.584	21.30	6.105	102.758	165.42
-6.046	102.908	248.34	-5.999	102.793	21.30	-4.920	102.563	159.00	-4.800	102.373	-2.00	56+0.000			102.809	102.916	-0.107	4.800	102.373	-2.00	4.920	102.563	159.00	5.999	102.793	21.30	6.065	102.927	205.53
-6.012	103.087	669.24	-5.999	103.006	21.30	-4.920	102.776	159.00	-4.800	102.586	-2.00	57+0.000			103.022	103.108	-0.086	4.800	102.586	-2.00	4.920	102.776	159.00	5.999	103.006	21.30	6.058	103.133	218.75
			-5.999	103.044	21.30	-4.920	102.814	159.00	-4.800	102.624	-2.00	57+3.660			103.060	103.141	-0.081	4.800	102.624	-2.00	4.920	102.814	159.00	5.999	103.044	21.30	6.049	103.163	240.55
-6.017	103.272	315.84	-5.999	103.218	21.30	-4.920	102.988	159.00	-4.800	102.798	-2.00	58+0.000		PCV	103.234	103.297	-0.062	4.800	102.798	-2.00	4.920	102.988	159.00	5.999	103.218	21.30	6.037	103.325	283.30
-6.017	103.485	315.84	-5.999	103.431	21.30	-4.920	103.201	159.00	-4.800	103.011	-2.00	59+0.000			103.447	103.451	-0.005	4.800	103.011	-2.00	4.920	103.201	159.00	5.999	103.431	21.30	6.037	103.537	283.30
-6.017	103.545	315.84	-5.999	103.491	21.30	-4.920	103.261	159.00	-4.800	103.071	-2.00	59+6.097			103.507	103.484	0.023	4.800	103.071	-2.00	4.920	103.261	159.00	5.999	103.491	21.30	6.037	103.598	283.30
-6.017	103.650	315.84	-5.999	103.596	21.30	-4.920	103.366	159.00	-4.800	103.176	-2.00	60+0.000			103.612	103.634	-0.022	4.800	103.176	-2.00	4.920	103.366	159.00	5.999	103.596	21.30	6.037	103.703	283.30
-6.098	103.641	-27.90	-5.999	103.668	21.30	-4.920	103.438	159.00	-4.800	103.248	-2.00	61+0.000		PTV	103.684	103.674	0.011	4.800	103.248	-2.00	4.920	103.438	159.00	5.999	103.668	21.30	6.040	103.699	75.87
-6.075	103.665	-6.41	-5.999	103.669	21.30	-4.920	103.439	159.00	-4.800	103.249	-2.00	62+0.000			103.685	103.689	-0.003	4.800	103.2										

-6.080	103.123	-12.13	-5.999	103.133	21.30	-4.920	102.903	159.00	-4.800	102.713	-2.00	76+0.000			103.149	103.156	-0.007	4.800	102.713	-2.00	4.920	102.903	159.00	5.999	103.133	21.30	6.048	103.156	47.45
-6.023	103.126	200.92	-5.999	103.079	21.30	-4.920	102.849	159.00	-4.800	102.659	-2.00	77+0.000			103.095	103.135	-0.040	4.800	102.659	-2.00	4.920	102.849	159.00	5.999	103.079	21.30	6.014	103.135	395.08
-6.029	103.066	143.10	-5.999	103.025	21.30	-4.920	102.795	159.00	-4.800	102.605	-2.00	78+0.000			103.041	103.084	-0.043	4.800	102.605	-2.00	4.920	102.795	159.00	5.999	103.025	21.30	6.005	103.090	1,166.51
-6.085	102.956	-17.25	-5.999	102.970	21.30	-4.920	102.740	159.00	-4.800	102.550	-2.00	79+0.000			102.986	102.991	-0.004	4.800	102.550	-2.00	4.920	102.740	159.00	5.999	102.970	21.30	6.040	103.001	76.81
-6.085	102.902	-17.25	-5.999	102.917	21.30	-4.920	102.687	159.00	-4.800	102.497	-2.00	79+19.681			102.933	102.916	0.017	4.800	102.497	-2.00	4.920	102.687	159.00	5.999	102.917	21.30	6.040	102.948	76.81


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

RUA A (CID. UNIV.) RUA A (CID. UNIV.) 0+0.000 8+6.649

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. (%)
-4.264	103.756	576.81	-4.249	103.673	21.30	-3.169	103.443	159.00	-3.050	103.253	-2.00	0+0.000			103.654	103.654	0.000	3.050	103.253	-2.00	3.169	103.443	159.00	4.249	103.673	21.30	4.400	103.593	-52.90
-4.381	103.576	-46.09	-4.249	103.637	21.30	-3.169	103.407	159.00	-3.050	103.217	-2.00	0+14.092	PC		103.618	103.493	0.125	3.050	103.217	-2.00	3.169	103.407	159.00	4.249	103.637	21.30	4.492	103.465	-70.75
-4.438	103.504	-62.43	-4.249	103.622	21.30	-3.169	103.392	159.00	-3.050	103.202	-2.00	1+0.000		PCV	103.603	103.462	0.141	3.050	103.202	-2.00	3.169	103.392	159.00	4.249	103.622	21.30	4.577	103.365	-78.35
-4.457	103.482	-65.81	-4.249	103.618	21.30	-3.169	103.388	159.00	-3.050	103.198	-2.00	1+1.451			103.599	103.419	0.180	3.050	103.198	-2.00	3.169	103.388	159.00	4.249	103.618	21.30	4.580	103.359	-78.54
-4.459	103.464	-66.13	-4.249	103.602	21.30	-3.169	103.372	159.00	-3.050	103.182	-2.00	1+8.811	PT		103.583	103.394	0.190	3.050	103.182	-2.00	3.169	103.372	159.00	4.249	103.602	21.30	4.534	103.389	-75.03
-4.462	103.443	-66.64	-4.249	103.585	21.30	-3.169	103.355	159.00	-3.050	103.165	-2.00	2+0.000			103.566	103.407	0.159	3.050	103.165	-2.00	3.169	103.355	159.00	4.249	103.585	21.30	4.504	103.401	-72.14
-4.462	103.443	-66.65	-4.249	103.585	21.30	-3.169	103.355	159.00	-3.050	103.165	-2.00	2+0.013	PC		103.566	103.407	0.159	3.050	103.165	-2.00	3.169	103.355	159.00	4.249	103.585	21.30	4.504	103.401	-72.13
-4.442	103.457	-63.07	-4.249	103.578	21.30	-3.169	103.348	159.00	-3.050	103.158	-2.00	2+7.476		PTV	103.559	103.442	0.117	3.050	103.158	-2.00	3.169	103.348	159.00	4.249	103.578	21.30	4.460	103.439	-66.26
-4.444	103.452	-63.46	-4.249	103.575	21.30	-3.169	103.345	159.00	-3.050	103.155	-2.00	2+14.938	PT		103.556	103.433	0.123	3.050	103.155	-2.00	3.169	103.345	159.00	4.249	103.575	21.30	4.457	103.439	-65.77
-4.435	103.460	-61.64	-4.249	103.574	21.30	-3.169	103.344	159.00	-3.050	103.154	-2.00	3+0.000			103.555	103.444	0.111	3.050	103.154	-2.00	3.169	103.344	159.00	4.249	103.574	21.30	4.450	103.444	-64.62
-4.399	103.492	-52.60	-4.249	103.570	21.30	-3.169	103.340	159.00	-3.050	103.150	-2.00	4+0.000			103.551	103.464	0.087	3.050	103.150	-2.00	3.169	103.340	159.00	4.249	103.570	21.30	4.412	103.479	-56.23
-4.386	103.504	-47.98	-4.249	103.569	21.30	-3.169	103.339	159.00	-3.050	103.149	-2.00	4+5.101	PC		103.550	103.467	0.083	3.050	103.149	-2.00	3.169	103.339	159.00	4.249	103.569	21.30	4.411	103.479	-56.11
-4.354	103.534	-32.12	-4.249	103.568	21.30	-3.169	103.338	159.00	-3.050	103.148	-2.00	4+14.423			103.549	103.483	0.066	3.050	103.148	-2.00	3.169	103.338	159.00	4.249	103.568	21.30	4.421	103.467	-58.57
-4.361	103.527	-36.14	-4.249	103.567	21.30	-3.169	103.337	159.00	-3.050	103.147	-2.00	5+0.000			103.548	103.502	0.046	3.050	103.147	-2.00	3.169	103.337	159.00	4.249	103.567	21.30	4.378	103.510	-44.60
-4.359	103.528	-35.18	-4.249	103.566	21.30	-3.169	103.336	159.00	-3.050	103.146	-2.00	5+3.744	PT		103.547	103.510	0.037	3.050	103.146	-2.00	3.169	103.336	159.00	4.249	103.566	21.30	4.373	103.514	-42.43
-4.322	103.562	-1.67	-4.249	103.563	21.30	-3.169	103.333	159.00	-3.050	103.143	-2.00	6+0.000			103.544	103.506	0.038	3.050	103.143	-2.00	3.169	103.333	159.00	4.249	103.563	21.30	4.367	103.517	-39.43
-4.320	103.561	0.22	-4.249	103.561	21.30	-3.169	103.331	159.00	-3.050	103.141	-2.00	6+11.181	PC		103.542	103.538	0.004	3.050	103.141	-2.00	3.169	103.331	159.00	4.249	103.561	21.30	4.348	103.534	-27.74
-4.319	103.563	2.17	-4.249	103.561	21.30	-3.169	103.331	159.00	-3.050	103.141	-2.00	6+11.702			103.542	103.541	0.001	3.050	103.141	-2.00	3.169	103.331	159.00	4.249	103.561	21.30	4.348	103.534	-27.96
-4.318	103.564	4.17	-4.249	103.561	21.30	-3.169	103.331	159.00	-3.050	103.141	-2.00	6+12.223	PT		103.542	103.542	0.000	3.050	103.141	-2.00	3.169	103.331	159.00	4.249	103.561	21.30	4.348	103.533	-28.17
-4.297	103.583	49.44	-4.249	103.560	21.30	-3.169	103.330	159.00	-3.050	103.140	-2.00	7+0.000			103.541	103.528	0.012	3.050	103.140	-2.00	3.169	103.330	159.00	4.249	103.560	21.30	4.367	103.513	-39.46
-4.297	103.579	49.44	-4.249	103.556	21.30	-3.169	103.326	159.00	-3.050	103.136	-2.00	8+0.000			103.537	103.581	-0.044	3.050	103.136	-2.00	3.169	103.326	159.00	4.249	103.556	21.30	4.367	103.510	-39.46
-4.297	103.579	49.44	-4.249	103.556	21.30	-3.169	103.326	159.00	-3.050	103.136	-2.00	8+6.649			103.537	103.556	-0.019	3.050	103.136	-2.00	3.169	103.326	159.00	4.249	103.556	21.30	4.367	103.510	-39.46

RUA B (CID. UNIV.) RUA B (CID. UNIV.) 0+0.000 8+19.536

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. (%)
-4.588	103.428	-19.36	-4.499	103.445	21.30	-3.419	103.215	159.00	-3.300	103.025	-2.00	0+0.000			103.431	103.431	0.000	3.300	103.025	-2.00	3.419	103.215	159.00	4.499	103.445	21.30	4.612	103.403	-37.05
-4.567	103.519	202.01	-4.499	103.383	21.30	-3.419	103.153	159.00	-3.300	102.963	-2.00	1+0.000			103.369	103.535	-0.166	3.300	102.963	-2.00	3.419	103.153	159.00	4.499	103.383	21.30	4.548	103.501	240.84
-4.545	103.347	56.33	-4.499	103.321	21.30	-3.419	103.091	159.00	-3.300	102.901	-2.00	2+0.000		PCV	103.307	103.303	0.004	3.300	102.901	-2.00	3.419	103.091	159.00	4.499	103.321	21.30	4.619	103.272	-40.80
-4.553	103.318	32.82	-4.499	103.300	21.30	-3.419	103.070	159.00	-3.300	102.880	-2.00	2+7.574	PC		103.286	103.278	0.009	3.300	102.880	-2.00	3.419	103.070	159.00	4.499	103.300	21.30	4.605	103.265	-32.94
-4.552	103.318	34.12	-4.499	103.300	21.30	-3.419	103.070	159.00	-3.300	102.880	-2.00	2+7.880			103.286	103.277	0.009	3.300	102.880	-2.00	3.419	103.070	159.00	4.499	103.300	21.30	4.606	103.265	-33.07
-4.552	103.318	35.41	-4.499	103.299	21.30	-3.419	103.069	159.00	-3.300	102.879	-2.00	2+8.186	PT		103.285	103.276	0.009	3.300	102.879	-2.00	3.419	103.069	159.00	4.499	103.299	21.30	4.606	103.264	-33.21
-4.527	103.330	157.24	-4.499	103.287	21.30	-3.419	103.057	159.00	-3.300	102.867	-2.00	3+0.000			103.273	103.265	0.008	3.300	102.867	-2.00	3.419	103.057	159.00	4.499	103.287	21.30	4.605	103.253	-32.51
-4.530	103.361	133.75	-4.499	103.321	21.30	-3.419	103.091	159.00	-3.300	102.901	-2.00	4+0.000			103.307	103.315	-0.008	3.300	102.901	-2.00	3.419	103.091	159.00	4.499	103.321	21.30	4.581	103.311	-12.45
-4.545	103.448	57.34	-4.499	103.423	21.30	-3.419	103.193	159.00	-3.300	103.003	-2.00	5+0.000			103.409	103.416	-0.008	3.300	103.003	-2.00	3.419	103.193	159.00	4.499	103.423	21.30	4.586	103.407	-17.86
-4.572	103.461	-2.70	-4.499	103.463	21.30	-3.419	103.233	159.00	-3.300	103.043	-2.00	5+5.573			103.449	103.438	0.011	3.300	103.043	-2.00	3.419	103.233	159.00	4.499	103.463	21.30	4.595	103.439	-25.58
-4.657	103.506	-54.85	-4.499	103.592	21.30	-3.419	103.362	159.00	-3.300	103.172	-2.00	6+0.000		PTV	103.578	103.515	0.063	3.300	103.172	-2.00	3.419	103.362	159.00	4.499	103.592	21.30	4.649	103.513	-52.59
-4.710	103.492	-66.25	-4.499	103.632	21.30	-3.419	103.402	159.00	-3.300	103.212	-2.00	6+3.784			103.618	103.542	0.076	3.300	103.212	-2.00	3.419	103.402	159.00	4.499	103.632	21.30	4.675	103.527	-59.56
-4.705	103.671	-65.44	-4.499	103.805	21.30	-3.419	103.575	159.00	-3.300	103.385	-2.00	7+0.000			103.791	103.671	0.120	3.300	103.385	-2.00	3.419	103.575	159.00	4.499	103.805	21.30	4.703	103.673	-65.08
-4.706	103.676	-65.55	-4.499	103.811	21.30	-3.419	103.581	159.00	-3.300	103.391	-2.00	7+0.571			103.797	103.677	0.121	3.300	103.391	-2.00	3.419	103.581	159.00	4.499	103.811	21.30	4.703	103.678	-65.17
-4.694	103.863	-63.49	-4.499	103.986	21.30	-3.419	103.756	159.00	-3.300	103.566	-2.00	7+16.946			103.972	103.849	0.124	3.300	103.566	-2.00	3.419	103.756	159.00	4.499	103.986	21.30	4.707	103.850	-65.76
-4.687	103.903	-62.11	-4.499	104.019	21.30	-3.419	103.789	159.00	-3.300	103.599	-2.00	8+0.000			104.005	103.887	0.118	3.300	103.599	-2.00	3.419	103.789	159.00	4.499	104.019	21.30	4.701	103.888	-64.79
-4.687	104.111	-62.11	-4.499	104.228	21.30	-3.419	103.998	159.00	-3.300	103.808	-2.00	8+19.536			104.214	104.140	0.074	3.300	103.808	-2.00	3.419	103.998	159.00	4.499	104.228	21.30	4.701	104.097	-64.79

RUA E (CID. UNIV.) RUA E (CID. UNIV.) 0+0.000 71+5.617

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. (%)
-6.016	102.216	332.37	-5.999	102.161	21.30	-4.920	101.931	159.00	-4.800	101.741	-2.00	0+0.000			102.177	102.177	0.000	4.800	101.741	-2.00	4.920	101.931	159.00	5.999	102.161	21.30	6.114	102.118	-37.81
-6.026	102.433	357.74	-5.999	102.338	21.30	-4.920	102.108	159.00	-4.800	101.918	-2.00	1+0.000			102.354	102.406	-0.053	4.800	101.918	-2.00	4.920	102.108	159.00	5.999	102.338	21.30	6.036	102.372	91.92
-6.046	102.629	249.45	-5.999	102.514	21.30	-4.920	102.284	159.00	-4.800	102.094	-2.00	2+0.000		PCV	102.530	102.623	-0.093	4.800	102.094	-2.00	4.920	102.284	159.00	5.999	102.514	21.30	6.011	102.595	697.74
			-5.999	102.683	21.30	-4.920	102.453	159.00	-4.800	102.263	-2.00	3+0.000			102.699	102.713	-0.014	4.800	102.263	-2.00	4.920	102.453	159.00	5.999	102.683	21.30	6.103	102.651	-31.22
-6.058	102.795	21.53	-5.999	102.782	21.30	-4.920	102.552	159.00	-4.800	102.362	-2.00	4+0.000			102.798	102.759	0.039	4.800	102.362	-2.00	4.920	102.552	159.00	5.999	102.782	21.30	6.163	102.689	-56.69
-6.062	102.806	13.56	-5.999	102.797	21.30	-4.920	102.567	159.00	-4.800	102.377	-2.00	5+0.000			102.813	102.795	0.018	4.800	102.377	-2.00	4.920	102.567	159.00	5.999	102.797	21.30	6.147	102.721	-51.96
-6.042	102.756	66.79	-5.999	102.728	21.30	-4.920	102.498	159.00	-4.800	102.308	-2.00	6+0.000		PTV	102.744	102.822	-0.078	4.800	102.308	-2.00	4.920	102.498	159.00	5.999	102.728	21.30	6.006	102.793	1,030.90
-6.056	102.627	26.28	-5.999	102.613	21.30	-4.920	102.383	159.00	-4.800	102.193	-2.00	7+0.000			102.629	102.653	-0.024	4.800	102.193	-2.00	4.920	102.383	159.00	5.999	102.613	21.30	6.028	102.655	146.71
-6.080	102.488	-11.83	-5.999	102.497	21.30	-4.920	102.267	159.00	-4.800	102.077	-2.00	8+0.000		PCV	102.513	102.537	-0.024	4.800	102.077	-2.00	4.920	102.267	159.00	5.999	102.497	21.30	6.010	102.558	591.51
-6.073	102.329	-3.70	-5.999	102.332	21.30	-4.920	102.102	159.00	-4.800	101.912	-2.00	9+0.000		PTV	102.348	102.376	-0.028	4.800	101.912	-2.00	4.920	102.102	159.00	5.999	102.332	21.30	6.027	102.428	346.91
-6.073	102.036	-3.70	-5.999	102.039	21.30	-4.920	101.809	159.00	-4.800	101.619	-2.00	10+0.000		PCV	102.055	102.097	-0.042	4.800	101.619	-2.00	4.920	101.809	159.00	5.999	102.039	21.30	6.027	102.136	346.91
-6.073	101.907	-3.70	-5.999	101.910	21.30	-4.920	101.680	159.00	-4.800	101.490	-2.00	10+8.932			101.926	101.879	0.046	4.800	101.490	-2.00	4.920	101.680	159.00	5.999	101.910	21.30	6.027	102.006	346.91
-6.073	101.864	-3.70	-5.999	101.867	21.30	-4.920	101.637	159.00	-4.800	101.447	-2.00	11+0.000		PTV	101.883	101.856	0.027	4.800	101.447	-2.00	4.920	101.637	159.00	5.999	101.867	21.30	6.027	101.964	346.91
-6.060	102.001	18.14	-5.999	101.990	21.30	-4.920	101.760	159.00	-4.800	101.570	-2.00	12+0.000			102.006	101.996	0.011	4.800	101.570	-2.00	4.920	101.760	159.00	5.999	101.990	21.30	6.071	101.990	-1.26
-6.046	102.141	51.60	-5.999	102.117	21.30	-4.920	101.887	159.00	-4.800	101.697	-2.00	13+0.000			102.133	102.129	0.004	4.800	101.697	-2.00	4.920	101.887	159.00	5.999	102.117	21.30	6.072	102.116	-1.42
-6.048	102.266	45.45	-5.999	102.244	21.30	-4.920	102.014	159.00	-4.800	101.824	-2.00	14+0.000			102.260	102.248	0.012	4.800	101.824	-2.00	4.920	102.014	159.00	5.999	102.244	21.30	6.096	102.219	-26.25
-6.050	102.391	40.20	-5.999	102.371	21.30	-4.920	102.141	159.00	-4.800	101.951	-2.00	15+0.000			102.387	102.364	0.022	4.800	101.951	-2.00	4.920	102.141	159.00	5.999	102.371	21.30	6.113	102.328	-37.25
-6.041	102.527	70.50	-5.999	102.497	21.30	-4.920	102.267	159.00	-4.800	102.077	-2.00	16+0.000		PCV	102.513	102.471	0.042	4.800	102.077	-2.00	4.920	102.267	159.00	5.999	102.497	21.30	6.132	102.436	-46.24
-6.086	102.606	-18.20	-5.999	102.622	21.30	-4.920	102.392	159.00	-4.800	102.202	-2.00	17+0.000			102.638	102.531	0.107	4.800	102.202	-2.00	4.920	102.392	159.00	5.999	102.622	21.30	6.159	102.533	-55.52
-6.091	102.694	-22.71	-5.999	102.714	21.30	-4.920	102.484	159.00	-4.800	102.294	-2.00	18+0.000			102.730	102.654	0.076	4.800	102.294	-2.00	4.920	102.484	159.00	5.999	102.714	21.30	6.180	102.605	-60.57
-6.072	102.765	-2.67	-5.999	102.767	21.30	-4.920	102.537	159.00	-4.800	102.347	-2.00	19+0.000			102.783	102.727	0.057	4.800	102.347	-2.00	4.920	102.537	159.00	5.999	102.767	21.30	6.158	102.680	-55.27
-6.024	102.827	185.24	-5.999	102.780	21.30	-4.920	102.550	159.00	-4.800	102.360	-2.00	20+0.000			102.796	102.792	0.005	4.800	102.360	-2.00	4.920	102.550	159.00	5.999	102.780	21.30	6.098	102.753	-28.15
-6.024	102.800	185.24	-5.999	102.753	21.30	-4.920	102.523	159.00	-4.800	102.333	-2.00	21+0.000			102.769	102.788	-0.018	4.800	102.333	-2.00	4.920	102.523	159.00	5.999	102.753	21.30	6.098	102.726	-28.15
-6.024	102.754	185.24	-5.999	102.708	21.30	-4.920	102.478	159.00	-4.800	102.288	-2.00	21+14.814			102.724	102.852	-0.128	4.800	102.288	-2.00	4.920	102.478	159.00	5.999	102.708	21.30	6.098	102.680	-28.15
-6.024	102.733	185.24	-5.999	102.687	21.30	-4.920	102.457	159.00	-4.800	102.267	-2.00	22+0.000			102.703	102.822	-0.119	4.800	102.267	-2.00	4.920	102.457	159.00	5.999	102.687	21.30	6.098	102.659	-28.15
-6.025	102.674	369.44	-5.999	102.580	21.30	-4.920	102.350	159.00	-4.800	102.160	-2.00	23+0.000			102.596	102.634	-0.039	4.800	102.160	-2.00	4.920	102.350	159.00	5.999	102.580	21.			

			-5.999	101.067	21.30	-4.920	100.837	159.00	-4.800	100.647	-2.00	49+0.000			101.083	101.074	0.009	4.800	100.647	-2.00	4.920	100.837	159.00	5.999	101.067	21.30	6.022	101.116	220.04
			-5.999	101.026	21.30	-4.920	100.796	159.00	-4.800	100.606	-2.00	50+0.000			101.042	101.047	-0.005	4.800	100.606	-2.00	4.920	100.796	159.00	5.999	101.026	21.30	6.022	101.075	220.04
			-5.999	101.002	21.30	-4.920	100.772	159.00	-4.800	100.582	-2.00	50+11.641			101.018	101.013	0.005	4.800	100.582	-2.00	4.920	100.772	159.00	5.999	101.002	21.30	6.022	101.051	220.04
			-5.999	100.985	21.30	-4.920	100.755	159.00	-4.800	100.565	-2.00	51+0.000	PCV		101.001	100.993	0.008	4.800	100.565	-2.00	4.920	100.755	159.00	5.999	100.985	21.30	6.022	101.034	220.04
			-5.999	100.943	21.30	-4.920	100.713	159.00	-4.800	100.523	-2.00	52+0.000			100.959	100.944	0.015	4.800	100.523	-2.00	4.920	100.713	159.00	5.999	100.943	21.30	6.026	100.988	172.22
			-5.999	100.892	21.30	-4.920	100.662	159.00	-4.800	100.472	-2.00	53+0.000			100.908	100.888	0.020	4.800	100.472	-2.00	4.920	100.662	159.00	5.999	100.892	21.30	6.050	100.913	41.36
			-5.999	100.829	21.30	-4.920	100.599	159.00	-4.800	100.409	-2.00	54+0.000			100.845	100.843	0.001	4.800	100.409	-2.00	4.920	100.599	159.00	5.999	100.829	21.30	6.042	100.858	68.74
			-5.999	100.753	21.30	-4.920	100.523	159.00	-4.800	100.333	-2.00	55+0.000			100.769	100.785	-0.015	4.800	100.333	-2.00	4.920	100.523	159.00	5.999	100.753	21.30	6.029	100.795	144.09
			-5.999	100.666	21.30	-4.920	100.436	159.00	-4.800	100.246	-2.00	56+0.000			100.682	100.672	0.010	4.800	100.246	-2.00	4.920	100.436	159.00	5.999	100.666	21.30	6.029	100.708	144.09
			-5.999	100.573	21.30	-4.920	100.343	159.00	-4.800	100.153	-2.00	56+18.652			100.589	100.491	0.098	4.800	100.153	-2.00	4.920	100.343	159.00	5.999	100.573	21.30	6.029	100.615	144.09
			-5.999	100.566	21.30	-4.920	100.336	159.00	-4.800	100.146	-2.00	57+0.000			100.582	100.498	0.084	4.800	100.146	-2.00	4.920	100.336	159.00	5.999	100.566	21.30	6.029	100.608	144.09
-6.108	100.417	-34.39	-5.999	100.455	21.30	-4.920	100.225	159.00	-4.800	100.035	-2.00	58+0.000			100.471	100.464	0.006	4.800	100.035	-2.00	4.920	100.225	159.00	5.999	100.455	21.30	6.050	100.475	39.94
-6.162	100.247	-56.42	-5.999	100.339	21.30	-4.920	100.109	159.00	-4.800	99.919	-2.00	58+18.773			100.355	100.302	0.052	4.800	99.919	-2.00	4.920	100.109	159.00	5.999	100.339	21.30	6.082	100.327	-13.85
-6.168	100.234	-57.75	-5.999	100.331	21.30	-4.920	100.101	159.00	-4.800	99.911	-2.00	59+0.000			100.347	100.292	0.054	4.800	99.911	-2.00	4.920	100.101	159.00	5.999	100.331	21.30	6.080	100.321	-11.36
-6.208	100.057	-65.94	-5.999	100.195	21.30	-4.920	99.965	159.00	-4.800	99.775	-2.00	60+0.000			100.211	100.110	0.100	4.800	99.775	-2.00	4.920	99.965	159.00	5.999	100.195	21.30	6.102	100.163	-30.88
-6.224	99.893	-68.33	-5.999	100.046	21.30	-4.920	99.816	159.00	-4.800	99.626	-2.00	61+0.000	PTV		100.062	99.963	0.100	4.800	99.626	-2.00	4.920	99.816	159.00	5.999	100.046	21.30	6.112	100.005	-36.83
-6.199	99.758	-64.49	-5.999	99.886	21.30	-4.920	99.656	159.00	-4.800	99.466	-2.00	62+0.000			99.902	99.829	0.074	4.800	99.466	-2.00	4.920	99.656	159.00	5.999	99.886	21.30	6.099	99.858	-28.81
-6.179	99.615	-60.54	-5.999	99.724	21.30	-4.920	99.494	159.00	-4.800	99.304	-2.00	63+0.000	PCV		99.740	99.687	0.053	4.800	99.304	-2.00	4.920	99.494	159.00	5.999	99.724	21.30	6.073	99.721	-3.75
-6.176	99.467	-59.69	-5.999	99.572	21.30	-4.920	99.342	159.00	-4.800	99.152	-2.00	64+0.000			99.588	99.558	0.031	4.800	99.152	-2.00	4.920	99.342	159.00	5.999	99.572	21.30	6.018	99.625	292.65
-6.177	99.449	-59.92	-5.999	99.555	21.30	-4.920	99.325	159.00	-4.800	99.135	-2.00	64+2.722			99.571	99.540	0.031	4.800	99.135	-2.00	4.920	99.325	159.00	5.999	99.555	21.30	6.012	99.613	461.12
-6.170	99.367	-58.41	-5.999	99.466	21.30	-4.920	99.236	159.00	-4.800	99.046	-2.00	64+18.885			99.482	99.435	0.047	4.800	99.046	-2.00	4.920	99.236	159.00	5.999	99.466	21.30	6.040	99.496	73.92
-6.173	99.359	-59.01	-5.999	99.461	21.30	-4.920	99.231	159.00	-4.800	99.041	-2.00	65+0.000	PTV		99.477	99.433	0.044	4.800	99.041	-2.00	4.920	99.231	159.00	5.999	99.461	21.30	6.032	99.500	119.68
-6.154	99.307	-54.08	-5.999	99.391	21.30	-4.920	99.161	159.00	-4.800	98.971	-2.00	66+0.000			99.407	99.381	0.026	4.800	98.971	-2.00	4.920	99.161	159.00	5.999	99.391	21.30	6.024	99.437	187.86
-6.157	99.252	-54.86	-5.999	99.339	21.30	-4.920	99.109	159.00	-4.800	98.919	-2.00	67+0.000			99.355	99.331	0.024	4.800	98.919	-2.00	4.920	99.109	159.00	5.999	99.339	21.30	6.020	99.390	253.89
-6.131	99.226	-46.02	-5.999	99.286	21.30	-4.920	99.056	159.00	-4.800	98.866	-2.00	68+0.000	PCV		99.302	99.315	-0.012	4.800	98.866	-2.00	4.920	99.056	159.00	5.999	99.286	21.30	6.006	99.351	1,034.02
-6.082	99.254	-13.79	-5.999	99.266	21.30	-4.920	99.036	159.00	-4.800	98.846	-2.00	69+0.000	PTV		99.282	99.339	-0.058	4.800	98.846	-2.00	4.920	99.036	159.00	5.999	99.266	21.30	6.028	99.363	346.22
-6.073	99.310	-3.74	-5.999	99.313	21.30	-4.920	99.083	159.00	-4.800	98.893	-2.00	70+0.000			99.329	99.383	-0.054	4.800	98.893	-2.00	4.920	99.083	159.00	5.999	99.313	21.30	6.016	99.399	506.58
-6.073	99.373	-3.74	-5.999	99.376	21.30	-4.920	99.146	159.00	-4.800	98.956	-2.00	71+0.000			99.392	99.461	-0.069	4.800	98.956	-2.00	4.920	99.146	159.00	5.999	99.376	21.30	6.016	99.462	506.58
-6.073	99.391	-3.74	-5.999	99.393	21.30	-4.920	99.163	159.00	-4.800	98.973	-2.00	71+5.617			99.409	99.464	-0.055	4.800	98.973	-2.00	4.920	99.163	159.00	5.999	99.393	21.30	6.016	99.479	506.58


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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



AV ELZA MORENATH AVENIDA ELZA MORENATH 0+0.000 44+6.179																													
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. (%)
-6.036	101.688	92.73	-5.999	101.654	21.30	-4.920	101.424	159.00	-4.800	101.234	-2.00	0+0.000			101.670	101.670	0.000	4.800	101.234	-2.00	4.920	101.424	159.00	5.999	101.654	21.30	6.071	101.654	-0.36
-6.033	101.766	307.23	-5.999	101.663	21.30	-4.920	101.433	159.00	-4.800	101.243	-2.00	1+0.000		PCV	101.679	101.702	-0.022	4.800	101.243	-2.00	4.920	101.433	159.00	5.999	101.663	21.30	6.044	101.690	58.70
-6.088	101.611	-19.89	-5.999	101.628	21.30	-4.920	101.398	159.00	-4.800	101.208	-2.00	2+0.000		PTV	101.644	101.641	0.004	4.800	101.208	-2.00	4.920	101.398	159.00	5.999	101.628	21.30	6.066	101.633	6.88
-6.071	101.431	-0.69	-5.999	101.432	21.30	-4.920	101.202	159.00	-4.800	101.012	-2.00	3+0.000			101.448	101.411	0.037	4.800	101.012	-2.00	4.920	101.202	159.00	5.999	101.432	21.30	6.111	101.391	-36.50
-6.025	101.212	179.94	-5.999	101.167	21.30	-4.920	100.937	159.00	-4.800	100.747	-2.00	4+0.000		PCV	101.183	101.206	-0.023	4.800	100.747	-2.00	4.920	100.937	159.00	5.999	101.167	21.30	6.046	101.191	51.66
-6.088	100.954	-19.94	-5.999	100.972	21.30	-4.920	100.742	159.00	-4.800	100.552	-2.00	5+0.000		PTV	100.988	101.051	-0.063	4.800	100.552	-2.00	4.920	100.742	159.00	5.999	100.972	21.30	6.018	101.060	464.17
-6.083	100.923	-14.60	-5.999	100.935	21.30	-4.920	100.705	159.00	-4.800	100.515	-2.00	6+0.000		PCV	100.951	101.007	-0.056	4.800	100.515	-2.00	4.920	100.705	159.00	5.999	100.935	21.30	6.045	101.050	251.64
-6.053	100.943	33.36	-5.999	100.926	21.30	-4.920	100.696	159.00	-4.800	100.506	-2.00	7+0.000			100.942	101.000	-0.058	4.800	100.506	-2.00	4.920	100.696	159.00	5.999	100.926	21.30	6.045	101.040	253.30
-6.080	100.931	-11.54	-5.999	100.941	21.30	-4.920	100.711	159.00	-4.800	100.521	-2.00	8+0.000			100.957	100.852	0.105	4.800	100.521	-2.00	4.920	100.711	159.00	5.999	100.941	21.30	6.083	100.928	-15.12
-6.106	100.951	-33.38	-5.999	100.987	21.30	-4.920	100.757	159.00	-4.800	100.567	-2.00	9+0.000		PTV	101.003	100.897	0.106	4.800	100.567	-2.00	4.920	100.757	159.00	5.999	100.987	21.30	6.189	100.868	-62.60
-6.106	101.016	-33.38	-5.999	101.052	21.30	-4.920	100.822	159.00	-4.800	100.632	-2.00	10+0.000			101.068	101.021	0.047	4.800	100.632	-2.00	4.920	100.822	159.00	5.999	101.052	21.30	6.189	100.933	-62.60
-6.106	101.065	-33.38	-5.999	101.100	21.30	-4.920	100.870	159.00	-4.800	100.680	-2.00	10+14.914			101.116	101.051	0.065	4.800	100.680	-2.00	4.920	100.870	159.00	5.999	101.100	21.30	6.189	100.981	-62.60
-6.106	101.081	-33.38	-5.999	101.117	21.30	-4.920	100.887	159.00	-4.800	100.697	-2.00	11+0.000		PCV	101.133	101.079	0.054	4.800	100.697	-2.00	4.920	100.887	159.00	5.999	101.117	21.30	6.189	100.998	-62.60
-6.044	101.208	60.13	-5.999	101.182	21.30	-4.920	100.952	159.00	-4.800	100.762	-2.00	12+0.000			101.198	101.165	0.033	4.800	100.762	-2.00	4.920	100.952	159.00	5.999	101.182	21.30	6.131	101.121	-46.09
-6.030	101.285	130.53	-5.999	101.245	21.30	-4.920	101.015	159.00	-4.800	100.825	-2.00	13+0.000			101.261	101.241	0.020	4.800	100.825	-2.00	4.920	101.015	159.00	5.999	101.245	21.30	6.115	101.201	-38.34
-6.012	101.364	449.31	-5.999	101.306	21.30	-4.920	101.076	159.00	-4.800	100.886	-2.00	14+0.000			101.322	101.319	0.003	4.800	100.886	-2.00	4.920	101.076	159.00	5.999	101.306	21.30	6.097	101.279	-27.37
			-5.999	101.365	21.30	-4.920	101.135	159.00	-4.800	100.945	-2.00	15+0.000			101.381	101.393	-0.013	4.800	100.945	-2.00	4.920	101.135	159.00	5.999	101.365	21.30	6.083	101.353	-14.49
-6.021	101.511	424.20	-5.999	101.421	21.30	-4.920	101.191	159.00	-4.800	101.001	-2.00	16+0.000			101.437	101.469	-0.032	4.800	101.001	-2.00	4.920	101.191	159.00	5.999	101.421	21.30	6.065	101.427	9.16
-6.026	101.571	357.52	-5.999	101.476	21.30	-4.920	101.246	159.00	-4.800	101.056	-2.00	17+0.000			101.492	101.553	-0.062	4.800	101.056	-2.00	4.920	101.246	159.00	5.999	101.476	21.30	6.061	101.485	15.36
-6.021	101.618	426.66	-5.999	101.528	21.30	-4.920	101.298	159.00	-4.800	101.108	-2.00	18+0.000		PTV	101.544	101.569	-0.025	4.800	101.108	-2.00	4.920	101.298	159.00	5.999	101.528	21.30	6.078	101.521	-9.13
-6.013	101.660	618.80	-5.999	101.578	21.30	-4.920	101.348	159.00	-4.800	101.158	-2.00	19+0.000			101.594	101.610	-0.016	4.800	101.158	-2.00	4.920	101.348	159.00	5.999	101.578	21.30	6.090	101.558	-21.95
-6.008	101.705	884.47	-5.999	101.627	21.30	-4.920	101.397	159.00	-4.800	101.207	-2.00	20+0.000			101.643	101.650	-0.007	4.800	101.207	-2.00	4.920	101.397	159.00	5.999	101.627	21.30	6.102	101.595	-30.70
-6.008	101.754	884.47	-5.999	101.676	21.30	-4.920	101.446	159.00	-4.800	101.256	-2.00	21+0.000			101.692	101.682	0.010	4.800	101.256	-2.00	4.920	101.446	159.00	5.999	101.676	21.30	6.102	101.645	-30.70
-6.008	101.803	884.47	-5.999	101.725	21.30	-4.920	101.495	159.00	-4.800	101.305	-2.00	22+0.000			101.741	101.696	0.045	4.800	101.305	-2.00	4.920	101.495	159.00	5.999	101.725	21.30	6.102	101.694	-30.70
-6.008	101.804	884.47	-5.999	101.726	21.30	-4.920	101.496	159.00	-4.800	101.306	-2.00	22+0.466		PCV	101.742	101.696	0.047	4.800	101.306	-2.00	4.920	101.496	159.00	5.999	101.726	21.30	6.102	101.695	-30.70
-6.008	101.845	884.47	-5.999	101.767	21.30	-4.920	101.537	159.00	-4.800	101.347	-2.00	23+0.000			101.783	101.831	-0.048	4.800	101.347	-2.00	4.920	101.537	159.00	5.999	101.767	21.30	6.102	101.736	-30.70
-6.010	101.854	592.98	-5.999	101.793	21.30	-4.920	101.563	159.00	-4.800	101.373	-2.00	24+0.000		PTV	101.809	101.826	-0.017	4.800	101.373	-2.00	4.920	101.563	159.00	5.999					

RUA 1a RUA NOVA RUA 1a RUA NOVA 0+0.000 27+9.264																													
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			0.000	98.093	-98.093																0.000	0.000	0.00						
1+0.000			98.097	97.998	0.099																0.000	0.000	0.00						
-4.543	98.110	63.18	-4.499	98.083	21.30	-3.419	97.853	159.00	-3.300	97.663	-2.00	2+0.000		PCV	98.069	97.979	0.090	3.300	97.663	-2.00	3.419	97.853	159.00	4.499	98.083	21.30	4.744	97.909	-71.00
-4.577	98.065	-8.92	-4.499	98.072	21.30	-3.419	97.842	159.00	-3.300	97.652	-2.00	3+0.000			98.058	97.954	0.104	3.300	97.652	-2.00	3.419	97.842	159.00	4.499	98.072	21.30	4.753	97.889	-72.03
-4.516	98.175	335.17	-4.499	98.120	21.30	-3.419	97.890	159.00	-3.300	97.700	-2.00	4+0.000		PTV	98.106	98.110	-0.003	3.300	97.700	-2.00	3.419	97.890	159.00	4.499	98.120	21.30	4.612	98.079	-36.81
-4.523	98.276	202.74	-4.499	98.229	21.30	-3.419	97.999	159.00	-3.300	97.809	-2.00	5+0.000			98.215	98.249	-0.034	3.300	97.809	-2.00	3.419	97.999	159.00	4.499	98.229	21.30	4.550	98.249	39.77
-4.523	98.401	202.74	-4.499	98.354	21.30	-3.419	98.124	159.00	-3.300	97.934	-2.00	6+0.000			98.340	98.358	-0.019	3.300	97.934	-2.00	3.419	98.124	159.00	4.499	98.354	21.30	4.550	98.374	39.77
-4.523	98.499	202.74	-4.499	98.452	21.30	-3.419	98.222	159.00	-3.300	98.032	-2.00	6+15.869			98.438	98.437	0.001	3.300	98.032	-2.00	3.419	98.222	159.00	4.499	98.452	21.30	4.550	98.472	39.77
-4.523	98.516	202.74	-4.499	98.468	21.30	-3.419	98.238	159.00	-3.300	98.048	-2.00	7+0.000			98.454	98.476	-0.021	3.300	98.048	-2.00	3.419	98.238	159.00	4.499	98.468	21.30	4.550	98.488	39.77
-4.512	98.768	642.21	-4.499	98.687	21.30	-3.419	98.457	159.00	-3.300	98.267	-2.00	8+0.000			98.673	98.770	-0.097	3.300	98.267	-2.00	3.419	98.457	159.00	4.499	98.687	21.30	4.522	98.779	400.13
-4.526	99.031	365.30	-4.499	98.936	21.30	-3.419	98.706	159.00	-3.300	98.516	-2.00	9+0.000			98.922	99.036	-0.114	3.300	98.516	-2.00	3.419	98.706	159.00	4.499	98.936	21.30	4.539	99.044	272.64
-4.516	99.270	522.27	-4.499	99.184	21.30	-3.419	98.954	159.00	-3.300	98.764	-2.00	10+0.000			99.170	99.279	-0.108	3.300	98.764	-2.00	3.419	98.954	159.00	4.499	99.184	21.30	4.533	99.287	303.36
			-4.499	99.433	21.30	-3.419	99.203	159.00	-3.300	99.013	-2.00	11+0.000			99.419	99.507	-0.088	3.300	99.013	-2.00	3.419	99.203	159.00	4.499	99.433	21.30			
-4.521	99.731	224.65	-4.499	99.682	21.30	-3.419	99.452	159.00	-3.300	99.262	-2.00	12+0.000		PCV	99.668	99.734	-0.066	3.300	99.262	-2.00	3.419	99.452	159.00	4.499	99.682	21.30	4.527	99.726	157.01
-4.510	99.982	588.39	-4.499	99.922	21.30	-3.419	99.692	159.00	-3.300	99.502	-2.00	13+0.000			99.908	100.000	-0.092	3.300	99.502	-2.00	3.419	99.692	159.00	4.499	99.922	21.30	4.508	99.985	771.15
-4.528	100.080	152.79	-4.499	100.037	21.30	-3.419	99.807	159.00	-3.300	99.617	-2.00	13+12.104			100.023	100.104	-0.081	3.300	99.617	-2.00	3.419	99.807	159.00	4.499	100.037	21.30	4.520	100.087	238.84
-4.581	100.089	-12.80	-4.499	100.099	21.30	-3.419	99.869	159.00	-3.300	99.679	-2.00	14+0.000			100.085	100.108	-0.023	3.300	99.679	-2.00	3.419	99.869	159.00	4.499	100.099	21.30	4.569	100.100	1.81
-4.662	100.115	-56.19	-4.499	100.206	21.30	-3.419	99.976	159.00	-3.300	99.786	-2.00	15+0.000		PTV	100.192	100.136	0.056	3.300	99.786	-2.00	3.419	99.976	159.00	4.499	100.206	21.30	4.651	100.126	-53.12
-4.676	100.168	-59.85	-4.499	100.274	21.30	-3.419	100.044	159.00	-3.300	99.854	-2.00	16+0.000			100.260	100.185	0.075	3.300	99.854	-2.00	3.419	100.044	159.00	4.499	100.274	21.30	4.668	100.177	-57.81
-4.682	100.230	-61.01	-4.499	100.341	21.30	-3.419	100.111	159.00	-3.300	99.921	-2.00	17+0.000			100.327	100.250	0.077	3.300	99.921	-2.00	3.419	100.111	159.00	4.499	100.341	21.30	4.653	100.259	-53.61
-4.676	100.304	-59.67	-4.499	100.409	21.30	-3.419	100.179	159.00	-3.300	99.989	-2.00	18+0.000			100.395	100.319	0.076	3.300	99.989	-2.00	3.419	100.179	159.00	4.499	100.409	21.30	4.651	100.329	-53.02
-4.664	100.383	-56.84	-4.499	100.476	21.30	-3.419	100.246	159.00	-3.300	100.056	-2.00	19+0.000			100.462	100.403	0.059	3.300	100.056	-2.00	3.419	100.246	159.00	4.499	100.476	21.30	4.634	100.413	-47.03
-4.648	100.466	-52.13	-4.499	100.543	21.30	-3.419	100.313	159.00	-3.300	100.123	-2.00	20+0.000			100.529	100.496	0.033	3.300	100.123	-2.00	3.419	100.313	159.00	4.499	100.543	21.30	4.608	100.506	-34.76
-4.648	100.519	-52.13	-4.499	100.596	21.30	-3.419	100.366	159.00	-3.300	100.176	-2.00	20+15.721			100.582	100.584	-0.002	3.300	100.176	-2.00	3.419	100.366	159.00	4.499	100.596	21.30	4.608	100.559	-34.76
-4.648	100.534	-52.13	-4.499	100.611	21.30	-3.419	100.381	159.00	-3.300	100.191	-2.00	21+0.000			100.597	100.592	0.005	3.300	100.191	-2.00	3.419	100.381	159.00	4.499	100.611	21.30	4.608	100.573	-34.76
-4.648	100.518	-52.13	-4.499	100.595	21.30	-3.419	100.365	159.00	-3.300	100.175	-2.00	21+10.266			100.581	100.700	-0.119	3.300	100.175	-2.00	3.419	100.365	159.00	4.499	100.595	21.30	4.608	100.557	-34.76
-4.648	100.679	-52.13	-4.499	100.756	21.30	-3.419	100.526	159.00	-3.300	100.336	-2.00	22+0.000			100.742	100.847	-0.105	3.300	100.336	-2.00	3.419	100.526	159.00	4.499	100.756	21.30	4.608	100.718	-34.76
-4.518	101.140	283.86	-4.499	101.087	21.30	-3.419	100.857	159.00	-3.300	100.667	-2.00	23+0.000		PCV	101.073	101.157	-0.084	3.300	100.667	-2.00	3.419	100.857	159.00	4.499	101.087	21.30			
-4.545	101.438	55.45	-4.499	101.413	21.30	-3.419	101.183	159.00	-3.300	100.993	-2.00	24+0.000			101.399	101.487	-0.089	3.300	100.993	-2.00	3.419	101.183	159.00	4.499	101.413	21.30	4.528	101.511	338.17
-4.583	101.617	-15.22	-4.499	101.630	21.30	-3.419	101.400	159.00	-3.300	101.210	-2.00	25+0.000		PTV	101.616	101.650	-0.033	3.300	101.210	-2.00	3.419	101.400	159.00	4.499	101.630	21.30	4.560	101.641	17.87
-4.565	101.726	8.38	-4.499	101.721	21.30	-3.419	101.491	159.00	-3.300	101.301	-2.00	26+0.000			101.707	101.737	-0.031	3.300	101.301	-2.00	3.419	101.491	159.00	4.499	101.721	21.30	4.577	101.714	-8.65
-4.565	101.801	8.38	-4.499	101.795	21.30	-3.419	101.565	159.00	-3.300	101.375	-2.00	27+0.000			101.781	101.834	-0.053	3.300	101.375	-2.00	3.419	101.565	159.00	4.499	101.795	21.30	4.577	101.789	-8.65
-4.565	101.835	8.38	-4.499	101.830	21.30	-3.419	101.600	159.00	-3.300	101.410	-2.00	27+9.264			101.816	101.825	-0.009	3.300	101.410	-2.00	3.419	101.600	159.00	4.499	101.830	21.30	4.577	101.823	-8.65


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CREA Reg. Nac. Nº 0210384751



RUA SÃO BENEDITO RUA SÃO BENEDITO 0+0.000 24+18.379

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. (%)
-6.013	97.910	440.13	-5.999	97.852	21.30	-4.920	97.622	159.00	-4.800	97.432	-2.00	0+0.000			97.868	97.868	0.000	4.800	97.432	-2.00	4.920	97.622	159.00	5.999	97.852	21.30	6.064	97.859	10.09
-6.062	98.263	210.71	-5.999	98.131	21.30	-4.920	97.901	159.00	-4.800	97.711	-2.00	1+0.000		PCV	98.147	98.209	-0.061	4.800	97.711	-2.00	4.920	97.901	159.00	5.999	98.131	21.30	6.021	98.181	229.17
-6.014	98.467	398.08	-5.999	98.410	21.30	-4.920	98.180	159.00	-4.800	97.990	-2.00	2+0.000			98.426	98.459	-0.033	4.800	97.990	-2.00	4.920	98.180	159.00	5.999	98.410	21.30	6.031	98.449	124.48
-6.062	98.663	12.78	-5.999	98.655	21.30	-4.920	98.425	159.00	-4.800	98.235	-2.00	3+0.000		PTV	98.671	98.670	0.001	4.800	98.235	-2.00	4.920	98.425	159.00	5.999	98.655	21.30	6.048	98.678	47.52
-6.036	98.873	93.85	-5.999	98.838	21.30	-4.920	98.608	159.00	-4.800	98.418	-2.00	4+0.000			98.854	98.876	-0.022	4.800	98.418	-2.00	4.920	98.608	159.00	5.999	98.838	21.30	6.023	98.886	207.30
-6.031	99.046	123.01	-5.999	99.007	21.30	-4.920	98.777	159.00	-4.800	98.587	-2.00	5+0.000			99.023	99.069	-0.046	4.800	98.587	-2.00	4.920	98.777	159.00	5.999	99.007	21.30	6.011	99.087	702.52
-6.033	99.055	111.68	-5.999	99.017	21.30	-4.920	98.787	159.00	-4.800	98.597	-2.00	5+1.225			99.033	99.080	-0.047	4.800	98.597	-2.00	4.920	98.787	159.00	5.999	99.017	21.30	6.012	99.099	632.00
-6.033	99.213	111.68	-5.999	99.176	21.30	-4.920	98.946	159.00	-4.800	98.756	-2.00	6+0.000			99.192	99.152	0.040	4.800	98.756	-2.00	4.920	98.946	159.00	5.999	99.176	21.30	6.012	99.258	632.00
-6.033	99.405	111.68	-5.999	99.367	21.30	-4.920	99.137	159.00	-4.800	98.947	-2.00	7+0.000			99.383	99.393	-0.010	4.800	98.947	-2.00	4.920	99.137	159.00	5.999	99.367	21.30	6.012	99.449	632.00
-6.033	99.487	111.68	-5.999	99.450	21.30	-4.920	99.220	159.00	-4.800	99.030	-2.00	7+10.476			99.466	99.509	-0.044	4.800	99.030	-2.00	4.920	99.220	159.00	5.999	99.450	21.30	6.012	99.532	632.00
-6.015	99.580	347.53	-5.999	99.524	21.30	-4.920	99.294	159.00	-4.800	99.104	-2.00	8+0.000			99.540	99.583	-0.043	4.800	99.104	-2.00	4.920	99.294	159.00	5.999	99.524	21.30			
-6.022	99.730	219.22	-5.999	99.682	21.30	-4.920	99.452	159.00	-4.800	99.262	-2.00	9+0.000			99.698	99.742	-0.044	4.800	99.262	-2.00	4.920	99.452	159.00	5.999	99.682	21.30	6.010	99.761	742.03
-6.051	99.858	37.48	-5.999	99.839	21.30	-4.920	99.609	159.00	-4.800	99.419	-2.00	10+0.000			99.855	99.870	-0.015	4.800	99.419	-2.00	4.920	99.609	159.00	5.999	99.839	21.30	6.035	99.943	296.71
-6.029	100.038	140.38	-5.999	99.996	21.30	-4.920	99.766	159.00	-4.800	99.576	-2.00	11+0.000			100.012	100.054	-0.042	4.800	99.576	-2.00	4.920	99.766	159.00	5.999	99.996	21.30	6.018	100.083	481.44
-6.032	100.192	121.30	-5.999	100.153	21.30	-4.920	99.923	159.00	-4.800	99.733	-2.00	12+0.000			100.169	100.207	-0.037	4.800	99.733	-2.00	4.920	99.923	159.00	5.999	100.153	21.30	6.008	100.231	869.49
-6.032	100.350	121.30	-5.999	100.311	21.30	-4.920	100.081	159.00	-4.800	99.891	-2.00	13+0.000			100.327	100.327	0.000	4.800	99.891	-2.00	4.920	100.081	159.00	5.999	100.311	21.30	6.008	100.389	869.49
-6.032	100.452	121.30	-5.999	100.413	21.30	-4.920	100.183	159.00	-4.800	99.993	-2.00	14+0.000			100.429	100.400	0.030	4.800	99.993	-2.00	4.920	100.183	159.00	5.999	100.413	21.30	6.008	100.491	869.49
-6.098	100.359	-28.22	-5.999	100.386	21.30	-4.920	100.156	159.00	-4.800	99.966	-2.00	15+0.000			100.402	100.398	0.004	4.800	99.966	-2.00	4.920	100.156	159.00	5.999	100.386	21.30			
-6.085	100.345	-17.32	-5.999	100.359	21.30	-4.920	100.129	159.00	-4.800	99.939	-2.00	16+0.000			100.375	100.357	0.019	4.800	99.939	-2.00	4.920	100.129	159.00	5.999	100.359	21.30	6.044	100.386	58.31
-6.060	100.343	16.84	-5.999	100.332	21.30	-4.920	100.102	159.00	-4.800	99.912	-2.00	17+0.000			100.348	100.317	0.031	4.800	99.912	-2.00	4.920	100.102	159.00	5.999	100.332	21.30	6.089	100.314	-20.23
-6.014	100.361	374.41	-5.999	100.305	21.30	-4.920	100.075	159.00	-4.800	99.885	-2.00	18+0.000		PCV	100.321	100.335	-0.013	4.800	99.885	-2.00	4.920	100.075	159.00	5.999	100.305	21.30	6.039	100.337	79.20
-6.007	100.384	968.53	-5.999	100.307	21.30	-4.920	100.077	159.00	-4.800	99.887	-2.00	18+7.714		PTV	100.323	100.347	-0.024	4.800	99.887	-2.00	4.920	100.077	159.00	5.999	100.307	21.30	6.027	100.350	158.94
-6.013	100.606	605.72	-5.999	100.523	21.30	-4.920	100.293	159.00	-4.800	100.103	-2.00	19+0.000		PCV	100.539	100.606	-0.067	4.800	100.103	-2.00	4.920	100.293	159.00	5.999	100.523	21.30	6.018	100.611	463.64
-6.024	100.949	194.02	-5.999	100.903	21.30	-4.920	100.673	159.00	-4.800	100.483	-2.00	20+0.000			100.919	100.984	-0.065	4.800	100.483	-2.00	4.920	100.673	159.00	5.999	100.903	21.30	6.009	100.964	618.42
-6.028	100.958	146.10	-5.999	100.915	21.30	-4.920	100.685	159.00	-4.800	100.495	-2.00	20+1.180		PTV	100.931	100.983	-0.052	4.800	100.495	-2.00	4.920	100.685	159.00	5.999	100.915	21.30	6.024	100.962	188.58
-6.100	100.947	-29.47	-5.999	100.976	21.30	-4.920	100.746	159.00	-4.800	100.556	-2.00	21+0.000			100.992	100.966	0.027	4.800	100.556	-2.00	4.920	100.746	159.00	5.999	100.976	21.30	6.091	100.956	-22.72
-6.088	100.975	-20.13	-5.999	100.993	21.30	-4.920	100.763	159.00	-4.800	100.573	-2.00	22+0.000			101.009	100.984	0.025	4.800	100.573	-2.00	4.920	100.763	159.00	5.999	100.993	21.30	6.091	100.972	-22.73
-6.083	100.996	-15.31	-5.999	101.009	21.30	-4.920	100.779	159.00	-4.800	100.589	-2.00	23+0.000			101.025	101.006	0.019	4.800	100.589	-2.00	4.920	100.779	159.00	5.999	101.009	21.30	6.093	100.986	-24.12
-6.063	101.033	11.95	-5.999	101.025	21.30	-4.920	100.795	159.00	-4.800	100.605	-2.00	24+0.000			101.041	101.032	0.009	4.800	100.605	-2.00	4.920	100.795	159.00	5.999	101.025	21.30	6.088	101.007	-20.02
-6.005	101.105	1,167.69	-5.999	101.040	21.30	-4.920	100.810	159.00	-4.800	100.620	-2.00	24+18.379			101.056	101.038	0.018	4.800	100.620	-2.00	4.920	100.810	159.00	5.999	101.040	21.30	6.117	100.993	-39.77


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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



AV. SALVADOR VERÍSSIMO AVENIDA SALVADOR VERÍSSIMO 0+0.000 44+8.708

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. (%)
-6.019	101.342	448.34	-5.999	101.253	21.30	-4.920	101.023	159.00	-4.800	100.833	-2.00	0+0.000			101.269	101.269	0.000	4.800	100.833	-2.00	4.920	101.023	159.00	5.999	101.253	21.30	6.075	101.248	-5.91
-6.041	101.276	266.43	-5.999	101.166	21.30	-4.920	100.936	159.00	-4.800	100.746	-2.00	1+0.000			101.182	101.203	-0.021	4.800	100.746	-2.00	4.920	100.936	159.00	5.999	101.166	21.30	6.102	101.134	-30.58
-6.193	101.342	135.58	-5.999	101.079	21.30	-4.920	100.849	159.00	-4.800	100.659	-2.00	2+0.000			101.095	101.113	-0.018	4.800	100.659	-2.00	4.920	100.849	159.00	5.999	101.079	21.30	6.190	100.959	-62.72
-6.150	100.912	-52.71	-5.999	100.991	21.30	-4.920	100.761	159.00	-4.800	100.571	-2.00	3+0.000			101.007	100.928	0.079	4.800	100.571	-2.00	4.920	100.761	159.00	5.999	100.991	21.30	6.177	100.885	-60.06
-6.182	100.793	-61.13	-5.999	100.904	21.30	-4.920	100.674	159.00	-4.800	100.484	-2.00	4+0.000			100.920	100.790	0.130	4.800	100.484	-2.00	4.920	100.674	159.00	5.999	100.904	21.30	6.176	100.799	-59.83
-6.102	100.786	-30.51	-5.999	100.817	21.30	-4.920	100.587	159.00	-4.800	100.397	-2.00	5+0.000			100.833	100.801	0.033	4.800	100.397	-2.00	4.920	100.587	159.00	5.999	100.817	21.30	6.160	100.727	-55.87
-6.116	100.741	-39.07	-5.999	100.786	21.30	-4.920	100.556	159.00	-4.800	100.366	-2.00	5+7.083	PC		100.802	100.742	0.061	4.800	100.366	-2.00	4.920	100.556	159.00	5.999	100.786	21.30	6.126	100.731	-43.99
-6.115	100.739	-38.42	-5.999	100.784	21.30	-4.920	100.554	159.00	-4.800	100.364	-2.00	5+7.698			100.800	100.737	0.062	4.800	100.364	-2.00	4.920	100.554	159.00	5.999	100.784	21.30	6.125	100.729	-43.51
-6.114	100.738	-37.75	-5.999	100.781	21.30	-4.920	100.551	159.00	-4.800	100.361	-2.00	5+8.313	PT		100.797	100.733	0.064	4.800	100.361	-2.00	4.920	100.551	159.00	5.999	100.781	21.30	6.124	100.727	-43.02
-6.099	100.701	-28.72	-5.999	100.730	21.30	-4.920	100.500	159.00	-4.800	100.310	-2.00	6+0.000		PCV	100.746	100.706	0.040	4.800	100.310	-2.00	4.920	100.500	159.00	5.999	100.730	21.30	6.111	100.690	-36.13
-6.121	100.595	-41.70	-5.999	100.646	21.30	-4.920	100.416	159.00	-4.800	100.226	-2.00	7+0.000			100.662	100.608	0.054	4.800	100.226	-2.00	4.920	100.416	159.00	5.999	100.646	21.30	6.088	100.628	-20.01
-6.133	100.516	-46.92	-5.999	100.579	21.30	-4.920	100.349	159.00	-4.800	100.159	-2.00	8+0.000			100.595	100.531	0.063	4.800	100.159	-2.00	4.920	100.349	159.00	5.999	100.579	21.30	6.081	100.568	-13.08
-6.131	100.501	-45.83	-5.999	100.561	21.30	-4.920	100.331	159.00	-4.800	100.141	-2.00	8+6.513	PC		100.577	100.498	0.079	4.800	100.141	-2.00	4.920	100.331	159.00	5.999	100.561	21.30	6.083	100.549	-15.08
-6.129	100.495	-45.11	-5.999	100.554	21.30	-4.920	100.324	159.00	-4.800	100.134	-2.00	8+9.719			100.570	100.488	0.082	4.800	100.134	-2.00	4.920	100.324	159.00	5.999	100.554	21.30	6.096	100.528	-26.66
-6.129	100.488	-45.18	-5.999	100.546	21.30	-4.920	100.316	159.00	-4.800	100.126	-2.00	8+12.925	PT		100.562	100.478	0.085	4.800	100.126	-2.00	4.920	100.316	159.00	5.999	100.546	21.30	6.100	100.517	-29.25
-6.130	100.473	-45.56	-5.999	100.532	21.30	-4.920	100.302	159.00	-4.800	100.112	-2.00	9+0.000			100.548	100.471	0.077	4.800	100.112	-2.00	4.920	100.302	159.00	5.999	100.532	21.30	6.105	100.497	-32.89
-6.130	100.446	-45.56	-5.999	100.506	21.30	-4.920	100.276	159.00	-4.800	100.086	-2.00	10+0.000			100.522	100.496	0.026	4.800	100.086	-2.00	4.920	100.276	159.00	5.999	100.506	21.30	6.105	100.471	-32.89
-6.130	100.440	-45.56	-5.999	100.500	21.30	-4.920	100.270	159.00	-4.800	100.080	-2.00	11+0.000			100.516	100.497	0.019	4.800	100.080	-2.00	4.920	100.270	159.00	5.999	100.500	21.30	6.105	100.465	-32.89
-6.130	100.441	-45.56	-5.999	100.500	21.30	-4.920	100.270	159.00	-4.800	100.080	-2.00	11+0.850	PC		100.516	100.499	0.017	4.800	100.080	-2.00	4.920	100.270	159.00	5.999	100.500	21.30	6.105	100.465	-32.89
-6.130	100.442	-45.56	-5.999	100.501	21.30	-4.920	100.271	159.00	-4.800	100.081	-2.00	11+4.913			100.517	100.510	0.008	4.800	100.081	-2.00	4.920	100.271	159.00	5.999	100.501	21.30	6.105	100.467	-32.89
-6.130	100.444	-45.56	-5.999	100.504	21.30	-4.920	100.274	159.00	-4.800	100.084	-2.00	11+8.975	PT		100.520	100.524	-0.004	4.800	100.084	-2.00	4.920	100.274	159.00	5.999	100.504	21.30	6.105	100.469	-32.89
-6.036	100.549	96.92	-5.999	100.514	21.30	-4.920	100.284	159.00	-4.800	100.094	-2.00	12+0.000		PTV	100.530	100.582	-0.052	4.800	100.094	-2.00	4.920	100.284	159.00	5.999	100.514	21.30	6.031	100.615	316.04
-6.015	100.629	555.08	-5.999	100.545	21.30	-4.920	100.315	159.00	-4.800	100.125	-2.00	13+0.000			100.561	100.638	-0.077	4.800	100.125	-2.00	4.920	100.315	159.00	5.999	100.545	21.30	6.053	100.668	228.10
-6.007	100.653	1,053.48	-5.999	100.577	21.30	-4.920	100.347	159.00	-4.800	100.157	-2.00	14+0.000			100.593	100.659	-0.066	4.800	100.157	-2.00	4.920	100.347	159.00	5.999	100.577	21.30	6.029	100.676	331.39
-6.025	100.654	173.98	-5.999	100.609	21.30	-4.920	100.379	159.00	-4.800	100.189	-2.00	15+0.000			100.625	100.651	-0.026	4.800	100.189	-2.00	4.920	100.379	159.00	5.999	100.609	21.30	6.019	100.660	265.84
-6.064	100.647	9.42	-5.999	100.641	21.30	-4.920	100.411	159.00	-4.800	100.221	-2.00	16+0.000			100.657	100.642	0.014	4.800	100.221	-2.00	4.920	100.411	159.00	5.999	100.641	21.30	6.055	100.656	28.29

-6.175	101.181	-59.56	-5.999	101.286	21.30	-4.920	101.056	159.00	-4.800	100.866	-2.00	28+13.973	PT		101.302	101.352	-0.050	4.800	100.866	-2.00	4.920	101.056	159.00	5.999	101.286	21.30			
-6.133	101.168	-46.74	-5.999	101.230	21.30	-4.920	101.000	159.00	-4.800	100.810	-2.00	29+0.000		PTV	101.246	101.236	0.010	4.800	100.810	-2.00	4.920	101.000	159.00	5.999	101.230	21.30	6.052	101.249	35.51
-6.058	100.960	21.95	-5.999	100.948	21.30	-4.920	100.718	159.00	-4.800	100.528	-2.00	30+0.000			100.964	100.946	0.018	4.800	100.528	-2.00	4.920	100.718	159.00	5.999	100.948	21.30	6.094	100.924	-24.80
-6.010	100.786	605.90	-5.999	100.725	21.30	-4.920	100.495	159.00	-4.800	100.305	-2.00	30+14.690	PC		100.741	100.745	-0.004	4.800	100.305	-2.00	4.920	100.495	159.00	5.999	100.725	21.30	6.076	100.720	-6.76
-6.008	100.777	713.80	-5.999	100.715	21.30	-4.920	100.485	159.00	-4.800	100.295	-2.00	30+15.373			100.731	100.736	-0.005	4.800	100.295	-2.00	4.920	100.485	159.00	5.999	100.715	21.30	6.074	100.711	-5.22
-6.007	100.768	858.34	-5.999	100.705	21.30	-4.920	100.475	159.00	-4.800	100.285	-2.00	30+16.056	PT		100.721	100.726	-0.006	4.800	100.285	-2.00	4.920	100.475	159.00	5.999	100.705	21.30	6.073	100.702	-3.64
			-5.999	100.645	21.30	-4.920	100.415	159.00	-4.800	100.225	-2.00	31+0.000			100.661	100.672	-0.012	4.800	100.225	-2.00	4.920	100.415	159.00	5.999	100.645	21.30	6.068	100.647	3.82
-6.042	100.453	263.18	-5.999	100.342	21.30	-4.920	100.112	159.00	-4.800	99.922	-2.00	32+0.000		PCV	100.358	100.397	-0.039	4.800	99.922	-2.00	4.920	100.112	159.00	5.999	100.342	21.30	6.043	100.369	62.11
-6.042	100.193	263.18	-5.999	100.082	21.30	-4.920	99.852	159.00	-4.800	99.662	-2.00	33+0.000			100.098	100.084	0.014	4.800	99.662	-2.00	4.920	99.852	159.00	5.999	100.082	21.30	6.043	100.109	62.11
-6.042	100.156	263.18	-5.999	100.045	21.30	-4.920	99.815	159.00	-4.800	99.625	-2.00	33+6.684	PC		100.061	99.996	0.065	4.800	99.625	-2.00	4.920	99.815	159.00	5.999	100.045	21.30	6.043	100.072	62.11
-6.042	100.156	263.18	-5.999	100.045	21.30	-4.920	99.815	159.00	-4.800	99.625	-2.00	33+6.822			100.061	99.994	0.066	4.800	99.625	-2.00	4.920	99.815	159.00	5.999	100.045	21.30	6.043	100.072	62.11
-6.042	100.155	263.18	-5.999	100.044	21.30	-4.920	99.814	159.00	-4.800	99.624	-2.00	33+6.960	PT		100.060	99.992	0.068	4.800	99.624	-2.00	4.920	99.814	159.00	5.999	100.044	21.30	6.043	100.071	62.11
-6.042	100.170	263.18	-5.999	100.059	21.30	-4.920	99.829	159.00	-4.800	99.639	-2.00	34+0.000		PTV	100.075	100.129	-0.054	4.800	99.639	-2.00	4.920	99.829	159.00	5.999	100.059	21.30	6.043	100.086	62.11
-6.007	100.245	967.01	-5.999	100.168	21.30	-4.920	99.938	159.00	-4.800	99.748	-2.00	34+13.387	PC		100.184	100.198	-0.014	4.800	99.748	-2.00	4.920	99.938	159.00	5.999	100.168	21.30	6.062	100.176	12.85
			-5.999	100.179	21.30	-4.920	99.949	159.00	-4.800	99.759	-2.00	34+14.673			100.195	100.202	-0.006	4.800	99.759	-2.00	4.920	99.949	159.00	5.999	100.179	21.30	6.072	100.178	-1.51
			-5.999	100.191	21.30	-4.920	99.961	159.00	-4.800	99.771	-2.00	34+15.958	PT		100.207	100.205	0.001	4.800	99.771	-2.00	4.920	99.961	159.00	5.999	100.191	21.30	6.082	100.180	-13.62
-6.020	100.277	243.73	-5.999	100.227	21.30	-4.920	99.997	159.00	-4.800	99.807	-2.00	35+0.000		PCV	100.243	100.214	0.029	4.800	99.807	-2.00	4.920	99.997	159.00	5.999	100.227	21.30	6.113	100.184	-37.30
-6.072	100.378	-1.80	-5.999	100.380	21.30	-4.920	100.150	159.00	-4.800	99.960	-2.00	35+18.302	PC		100.396	100.302	0.094	4.800	99.960	-2.00	4.920	100.150	159.00	5.999	100.380	21.30	6.218	100.232	-67.58
-6.064	100.398	9.43	-5.999	100.392	21.30	-4.920	100.162	159.00	-4.800	99.972	-2.00	36+0.000			100.408	100.318	0.090	4.800	99.972	-2.00	4.920	100.162	159.00	5.999	100.392	21.30	6.204	100.259	-65.22
-6.064	100.400	10.68	-5.999	100.394	21.30	-4.920	100.164	159.00	-4.800	99.974	-2.00	36+0.166			100.410	100.318	0.091	4.800	99.974	-2.00	4.920	100.164	159.00	5.999	100.394	21.30	6.204	100.260	-65.22
-6.055	100.422	27.08	-5.999	100.407	21.30	-4.920	100.177	159.00	-4.800	99.987	-2.00	36+2.030	PT		100.423	100.336	0.087	4.800	99.987	-2.00	4.920	100.177	159.00	5.999	100.407	21.30	6.203	100.275	-65.07
-6.055	100.535	27.08	-5.999	100.520	21.30	-4.920	100.290	159.00	-4.800	100.100	-2.00	37+0.000			100.536	100.535	0.000	4.800	100.100	-2.00	4.920	100.290	159.00	5.999	100.520	21.30	6.203	100.388	-65.07
-6.055	100.601	27.08	-5.999	100.586	21.30	-4.920	100.356	159.00	-4.800	100.166	-2.00	37+13.952	PC		100.602	100.613	-0.011	4.800	100.166	-2.00	4.920	100.356	159.00	5.999	100.586	21.30	6.203	100.453	-65.07
-6.055	100.604	27.08	-5.999	100.589	21.30	-4.920	100.359	159.00	-4.800	100.169	-2.00	37+14.679			100.605	100.604	0.001	4.800	100.169	-2.00	4.920	100.359	159.00	5.999	100.589	21.30	6.203	100.456	-65.07
-6.055	100.607	27.08	-5.999	100.591	21.30	-4.920	100.361	159.00	-4.800	100.171	-2.00	37+15.405	PT		100.607	100.595	0.013	4.800	100.171	-2.00	4.920	100.361	159.00	5.999	100.591	21.30	6.203	100.459	-65.07
-6.055	100.623	27.08	-5.999	100.608	21.30	-4.920	100.378	159.00	-4.800	100.188	-2.00	38+0.000			100.624	100.550	0.074	4.800	100.188	-2.00	4.920	100.378	159.00	5.999	100.608	21.30	6.203	100.476	-65.07
-6.029	100.699	138.83	-5.999	100.658	21.30	-4.920	100.428	159.00	-4.800	100.238	-2.00	39+0.000			100.674	100.629	0.045	4.800	100.238	-2.00	4.920	100.428	159.00	5.999	100.658	21.30	6.130	100.598	-45.78
-6.014	100.724	385.57	-5.999	100.668	21.30	-4.920	100.438	159.00	-4.800	100.248	-2.00	40+0.000		PTV	100.684	100.658	0.026	4.800	100.248	-2.00	4.920	100.438	159.00	5.999	100.668	21.30	6.118	100.621	-39.84
-6.016	100.703	320.01	-5.999	100.649	21.30	-4.920	100.419	159.00	-4.800	100.229	-2.00	40+18.830	PC		100.665	100.662	0.003	4.800	100.229	-2.00	4.920	100.419	159.00	5.999	100.649	21.30	6.090	100.630	-21.20
-6.016	100.703	327.34	-5.999	100.649	21.30	-4.920	100.419	159.00	-4.800	100.229	-2.00	40+19.296			100.665	100.662	0.003	4.800	100.229	-2.00	4.920	100.419	159.00	5.999	100.649	21.30	6.089	100.630	-20.73
-6.016	100.703	335.12	-5.999	100.648	21.30	-4.920	100.418	159.00	-4.800	100.228	-2.00	40+19.762	PT		100.664	100.661	0.003	4.800	100.228	-2.00	4.920	100.418	159.00	5.999	100.648	21.30	6.089	100.630	-20.24
-6.016	100.703	339.17	-5.999	100.648	21.30	-4.920	100.418	159.00	-4.800	100.228	-2.00	41+0.000			100.664	100.661	0.003	4.800	100.228	-2.00	4.920	100.418	159.00	5.999	100.648	21.30	6.088	100.630	-19.99
-6.031	100.666	127.55	-5.999	100.626	21.30	-4.920	100.396	159.00	-4.800	100.206	-2.00	42+0.000			100.642	100.649	-0.006	4.800	100.206	-2.00	4.920	100.396	159.00	5.999	100.626	21.30	6.042	100.655	68.80
-6.050	100.724	237.87	-5.999	100.605	21.30	-4.920	100.375	159.00	-4.800	100.185	-2.00	43+0.000			100.621	100.691	-0.070	4.800	100.185	-2.00	4.920	100.375	159.00	5.999	100.605	21.30	6.031	100.644	124.63
-6.050	100.702	237.87	-5.999	100.583	21.30	-4.920	100.353	159.00	-4.800	100.163	-2.00	44+0.000			100.599	100.600	-0.001	4.800	100.163	-2.00	4.920	100.353	159.00	5.999	100.583	21.30	6.031	100.622	124.63
-6.050	100.692	237.87	-5.999	100.573	21.30	-4.920	100.343	159.00	-4.800	100.153	-2.00	44+8.708			100.589	100.491	0.098	4.800	100.153	-2.00	4.920	100.343	159.00	5.999	100.573	21.30	6.031	100.613	124.63


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