



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-16

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA_VC_B.S.-18									CONCORDA COM A VIA_VC_B.S.-18						
0+3.73						1060.420	3.00	2.00	1062.50	1060.36	2.144	2.00	3.00	1060.420				BORDO DA VIA_VC_B.S.-18
0+10.00		(i=22.31%) PCV				1061.819	3.00	2.00	1063.14	1061.76	1.376	2.00	3.00	1061.819				
1		PIV (Y=20.00m)				1063.326	3.00	2.00	1063.49	1063.27	0.220	2.00	3.00	1063.326				
1+10.00		PTV (i=-6.67%)				1063.383	3.00	2.00	1063.64	1063.32	0.318	2.00	3.00	1063.383				
2		(i=-6.67%) PCV				1062.717	3.00	2.00	1063.15	1062.66	0.489	2.00	3.00	1062.717				
2+10.00		PIV (Y=20.00m)				1062.172	3.00	2.00	1062.26	1062.11	0.147	2.00	3.00	1062.172				
3		PTV (i=-1.80%)				1061.870	3.00	2.00	1061.98	1061.81	0.167	2.00	3.00	1061.870				
4		(i=-1.80%) PCV				1061.510	3.00	2.00	1061.51	1061.45	0.059	2.00	3.00	1061.510				
5		PIV (Y=40.00m)				1061.320	3.00	2.00	1061.44	1061.26	0.178	2.00	3.00	1061.320				
6		PTV (i=1.60%)				1061.470	3.00	2.00	1061.46	1061.41	0.045	2.00	3.00	1061.470				
7						1061.790	3.00	2.00	1062.21	1061.73	0.481	2.00	3.00	1061.790				
8						1062.109	3.00	2.00	1062.49	1062.05	0.445	2.00	3.00	1062.109				
9						1062.429	3.00	2.00	1062.59	1062.37	0.223	2.00	3.00	1062.429				
9+11.93						1062.620	3.00	2.00	1062.65	1062.56	0.094	2.00	3.00	1062.620				
9+15.43						1062.620	3.00	2.00	1062.63	1062.56	0.066	2.00	3.00	1062.620				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-17

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES	
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2				
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota		
0			CONCORDA COM A VIA VC B.S.-18						1061.63	1057.39	4.244	CONCORDA COM A VIA VC B.S.-18							
0+3.50						1061.500	3.00	2.00	1061.18	1061.44	-0.258	2.00	3.00	1061.500					BORDO DA VIA VC_B.S.-18
0+5.00		(i=-13.48%) PCV				1061.298	3.00	2.00	1061.00	1061.24	-0.236	2.00	3.00	1061.298					
0+15.00		PIV (Y=20.00m)				1060.217	3.00	2.00	1060.29	1060.16	0.133	2.00	3.00	1060.217					
1						1059.877	3.00	2.00	1060.05	1059.82	0.231	2.00	3.00	1059.877					
1+5.00		PTV (i=-2.80%)				1059.670	3.00	2.00	1059.84	1059.61	0.229	2.00	3.00	1059.670					
1+10.00		(i=-2.80%) PCV				1059.530	3.00	2.00	1059.71	1059.47	0.236	2.00	3.00	1059.530					
2						1058.979	3.00	2.00	1059.15	1058.92	0.226	2.00	3.00	1058.979					
2+10.00		PIV (Y=20.00m)				1057.885	3.00	2.00	1057.94	1057.83	0.110	2.00	3.00	1057.885					
2+13.19		PTV (i=-13.65%)				1057.450	3.00	2.00	1057.67	1057.39	0.282	2.00	3.00	1057.450					
2+13.19						1057.450	3.00	2.00	1057.67	1057.39	0.282	2.00	3.00	1057.450					



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-18

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA B.S.-63									CONCORDA COM A VIA B.S.-63						
0+3.61						1066.890	3.00	2.00	1065.10	1066.83	-1.728	2.00	3.00	1066.890				BORDO DA VIA_B.S.-63
0+10.00		(i=-19.77%) PCV				1065.627	3.00	2.00	1064.41	1065.57	-1.153	2.00	3.00	1065.627				
1		PIV (Y=20.00m)				1064.048	3.00	2.00	1063.87	1063.99	-0.114	2.00	3.00	1064.048				
1+10.00		PTV (i=-3.83%)				1063.267	3.00	2.00	1063.47	1063.21	0.260	2.00	3.00	1063.267				
2						1062.883	3.00	2.00	1063.12	1062.82	0.294	2.00	3.00	1062.883				
2+10.08						1062.497	3.00	2.00	1062.63	1062.44	0.189	2.00	3.00	1062.497				= EST. 9+15.43 DA VIA VC_B.S.-16
3						1062.117	3.00	2.00	1062.22	1062.06	0.161	2.00	3.00	1062.117				
3+10.00		(i=-3.83%) PCV				1061.733	3.00	2.00	1061.80	1061.67	0.125	2.00	3.00	1061.733				
4		PIV (Y=20.00m)				1061.470	3.00	2.00	1061.70	1061.41	0.285	2.00	3.00	1061.470				
4+7.97						1061.431	3.00	2.00	1061.63	1061.37	0.263	2.00	3.00	1061.431				= EST. 2+13.19 DA VIA VC_B.S.-17
4+10.00		PTV (i=.95%)				1061.445	3.00	2.00	1061.68	1061.39	0.295	2.00	3.00	1061.445				
5						1061.541	3.00	2.00	1061.84	1061.48	0.363	2.00	3.00	1061.541				
6						1061.731	3.00	2.00	1061.84	1061.67	0.170	2.00	3.00	1061.731				
6+1.98						1061.750	3.00	2.00	1060.62	1061.69	-1.067	2.00	3.00	1061.750				



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ALINHAMENTO:

VC B.S.-19

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA VC B.B.-22									CONCORDA COM A VIA VC B.B.-22						
0+4.23						1057.410	3.00	2.00	1057.41	1057.35	0.062	2.00	3.00	1057.410				BORDO DA VIA VC B.S.-22
1						1057.276	3.00	2.00	1057.37	1057.22	0.158	2.00	3.00	1057.276				
2						1057.105	3.00	2.00	1057.21	1057.05	0.165	2.00	3.00	1057.105				
2+10.00		(i=-.85%) PCV				1057.020	3.00	2.00	1057.14	1056.96	0.177	2.00	3.00	1057.020				
3						1056.886	3.00	2.00	1057.05	1056.83	0.219	2.00	3.00	1056.886				
3+3.97	PC					1056.806	3.00	2.00	1057.05	1056.75	0.303	2.00	3.00	1056.806				
3+10.00		PIV (Y=40.00m)				1056.655	3.00	2.00	1056.86	1056.60	0.264	2.00	3.00	1056.655				
4						1056.326	3.00	2.00	1056.40	1056.27	0.131	2.00	3.00	1056.326				
4+5.85	(R=12.00m) PT					1056.089	3.00	2.00	1056.10	1056.03	0.069	2.00	3.00	1056.089				
4+10.00		PTV (i=-4.75%)				1055.900	3.00	2.00	1055.92	1055.84	0.080	2.00	3.00	1055.900				
5		(i=-4.75%) PCV				1055.425	3.00	2.00	1055.49	1055.37	0.122	2.00	3.00	1055.425				
5+10.00		PIV (Y=20.00m)				1054.857	3.00	2.00	1054.98	1054.80	0.187	2.00	3.00	1054.857				
6		PTV (i=-8.49%)				1054.101	3.00	2.00	1054.25	1054.04	0.205	2.00	3.00	1054.101				
6+11.41	PC					1053.133	3.00	2.00	1053.24	1053.07	0.168	2.00	3.00	1053.133				
7						1052.404	3.00	2.00	1052.44	1052.34	0.093	2.00	3.00	1052.404				
7+1.54	(R=15.00m) PT					1052.274	3.00	2.00	1052.31	1052.21	0.100	2.00	3.00	1052.274				
8						1050.707	3.00	2.00	1050.92	1050.65	0.269	2.00	3.00	1050.707				
9						1049.010	3.00	2.00	1049.15	1048.95	0.196	2.00	3.00	1049.010				
10						1047.313	3.00	2.00	1047.34	1047.25	0.084	2.00	3.00	1047.313				
10+16.07						1045.950	3.00	2.00	1046.01	1045.89	0.119	2.00	3.00	1045.950				
10+16.07						1045.950	3.00	2.00	1046.01	1045.89	0.119	2.00	3.00	1045.950				
10+16.07						1045.950	3.00	2.00	1046.01	1045.89	0.119	2.00	3.00	1045.950				



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ALINHAMENTO:

VC B.S.-20

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VC_B.S.-19						1051.84			CONCORDA COM A VC_B.S.-19						
0+4,070		i=-4,41%				1051.740	3.00	2.00	1051.65	1051.68	-0.030	2.00	3.00	1051.740				=BORDO DA VC_B.S.-19
1						1051.037	3.00	2.00	1051.03	1050.98	0.050	2.00	3.00	1051.037				
1+3,111	PC (R=18,00m)					1050.899	3.00	2.00	1050.97	1050.84	0.127	2.00	3.00	1050.899				
1+14,824	PT					1050.382	3.00	2.00	1050.55	1050.32	0.226	2.00	3.00	1050.382				
1+16,804						1050.295	3.00	2.00	1050.48	1050.24	0.241	2.00	3.00	1050.295				
2						1050.154	3.00	2.00	1050.39	1050.09	0.291	2.00	3.00	1050.154				
3						1049.271	3.00	2.00	1049.16	1049.21	-0.047	2.00	3.00	1049.271				
3+9,539						1048.850	3.00	2.00	1048.75	1048.79	-0.036	2.00	3.00	1048.850				FIM DA VIA



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RA X - GUARÁ - DF

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ALINHAMENTO:

VC B.S.-22

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA B.S.-63									CONCORDA COM A VIA B.S.-63						
0+3.50						1064.200	3.00	2.00	1064.22	1064.14	0.084	2.00	3.00	1064.200				CONCORDA COM A VIA B.S.-63
0+10.00		(i=1.52%) PCV				1064.298	3.00	2.00	1064.36	1064.24	0.117	2.00	3.00	1064.298				
1		PIV (Y=20.00m)				1064.137	3.00	2.00	1064.36	1064.08	0.285	2.00	3.00	1064.137				
1+10.00		PTV (i=-11.00%)				1063.350	3.00	2.00	1063.58	1063.29	0.288	2.00	3.00	1063.350				
1+10.00		(i=-11.00%) PCV				1063.350	3.00	2.00	1063.58	1063.29	0.288	2.00	3.00	1063.350				
2		PIV (Y=20.00m)				1062.402	3.00	2.00	1062.61	1062.34	0.268	2.00	3.00	1062.402				
2+10.00		PTV (i=-4.92%)				1061.758	3.00	2.00	1061.93	1061.70	0.229	2.00	3.00	1061.758				
3						1061.267	3.00	2.00	1061.42	1061.21	0.216	2.00	3.00	1061.267				
4						1060.283	3.00	2.00	1060.46	1060.22	0.236	2.00	3.00	1060.283				
5						1059.300	3.00	2.00	1059.38	1059.24	0.143	2.00	3.00	1059.300				
6						1058.317	3.00	2.00	1058.44	1058.26	0.181	2.00	3.00	1058.317				
6+10.00		(i=-4.92%) PCV				1057.825	3.00	2.00	1057.93	1057.77	0.164	2.00	3.00	1057.825				
7						1057.323	3.00	2.00	1057.37	1057.26	0.104	2.00	3.00	1057.323				
8		PIV (Y=60.00m)				1056.256	3.00	2.00	1056.37	1056.20	0.176	2.00	3.00	1056.256				
9						1055.106	3.00	2.00	1055.23	1055.05	0.184	2.00	3.00	1055.106				
9+10.00		PTV (i=-6.17%)				1054.500	3.00	2.00	1054.65	1054.44	0.213	2.00	3.00	1054.500				
10						1053.883	3.00	2.00	1054.01	1053.82	0.191	2.00	3.00	1053.883				
11						1052.650	3.00	2.00	1052.74	1052.59	0.149	2.00	3.00	1052.650				
12						1051.417	3.00	2.00	1051.62	1051.36	0.267	2.00	3.00	1051.417				
13		(i=-6.17%) PCV				1050.183	3.00	2.00	1050.39	1050.12	0.262	2.00	3.00	1050.183				
14		PIV (Y=40.00m)				1049.025	3.00	2.00	1049.23	1048.96	0.264	2.00	3.00	1049.025				
15		PTV (i=-4.67%)				1048.016	3.00	2.00	1048.20	1047.96	0.240	2.00	3.00	1048.016				
16						1047.083	3.00	2.00	1047.09	1047.02	0.069	2.00	3.00	1047.083				
16+17.84						1046.250	3.00	2.00	1046.39	1046.19	0.198	2.00	3.00	1046.250				



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ALINHAMENTO: VC B.S.-23

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0	CONCORDA COM A VIA B.S.-63																	
0+3.50						1064.150	3.00	2.00	1064.15	1064.09	0.061	2.00	3.00	1064.150				BORDO DA VIA B.S.-63
0+10.00		(i=-3.03%) PCV				1063.953	3.00	2.00	1064.22	1063.89	0.330	2.00	3.00	1063.953				
1		PIV (Y=20.00m)				1063.592	3.00	2.00	1064.03	1063.53	0.502	2.00	3.00	1063.592				
1+10.00		PTV (i=-5.36%)				1063.114	3.00	2.00	1063.31	1063.05	0.256	2.00	3.00	1063.114				
2						1062.577	3.00	2.00	1062.66	1062.52	0.144	2.00	3.00	1062.577				
3						1061.505	3.00	2.00	1061.62	1061.44	0.173	2.00	3.00	1061.505				
4						1060.432	3.00	2.00	1060.53	1060.37	0.159	2.00	3.00	1060.432				
5						1059.359	3.00	2.00	1059.38	1059.30	0.078	2.00	3.00	1059.359				
6						1058.286	3.00	2.00	1058.38	1058.23	0.150	2.00	3.00	1058.286				
7						1057.214	3.00	2.00	1057.36	1057.15	0.207	2.00	3.00	1057.214				
8						1056.141	3.00	2.00	1056.31	1056.08	0.230	2.00	3.00	1056.141				
9						1055.068	3.00	2.00	1055.20	1055.01	0.189	2.00	3.00	1055.068				
10						1053.995	3.00	2.00	1054.02	1053.94	0.089	2.00	3.00	1053.995				
11						1052.923	3.00	2.00	1053.02	1052.86	0.157	2.00	3.00	1052.923				
11+10.00		(i=-5.36%) PCV				1052.386	3.00	2.00	1052.57	1052.33	0.239	2.00	3.00	1052.386				
12		PIV (Y=20.00m)				1051.802	3.00	2.00	1052.02	1051.74	0.275	2.00	3.00	1051.802				
12+10.00		PTV (i=-7.30%)				1051.120	3.00	2.00	1051.39	1051.06	0.326	2.00	3.00	1051.120				
13						1050.390	3.00	2.00	1050.48	1050.33	0.151	2.00	3.00	1050.390				
13+10.00		(i=-7.30%) PCV				1049.660	3.00	2.00	1049.65	1049.60	0.052	2.00	3.00	1049.660				
14						1049.011	3.00	2.00	1049.03	1048.95	0.080	2.00	3.00	1049.011				
14+10.00		PIV (Y=40.00m)				1048.524	3.00	2.00	1048.61	1048.46	0.146	2.00	3.00	1048.524				
15						1048.200	3.00	2.00	1048.28	1048.14	0.144	2.00	3.00	1048.200				
15+2.76	PC					1048.139	3.00	2.00	1048.25	1048.08	0.166	2.00	3.00	1048.139				
15+10.00		PTV (i=-.81%)				1048.038	3.00	2.00	1048.06	1047.98	0.087	2.00	3.00	1048.038				
15+13.27	(R=5.50m) PT					1048.011	3.00	2.00	1048.01	1047.95	0.062	2.00	3.00	1048.011				
16						1047.956	3.00	2.00	1047.92	1047.90	0.024	2.00	3.00	1047.956				
17						1047.794	3.00	2.00	1047.81	1047.73	0.074	2.00	3.00	1047.794				
17+11.18						1047.703	3.00	2.00	1047.80	1047.64	0.154	2.00	3.00	1047.703				
18		(i=-.81%) PCV				1047.631	3.00	2.00	1047.82	1047.57	0.252	2.00	3.00	1047.631				
18+10.00		PIV (Y=20.00m)				1047.516	3.00	2.00	1047.69	1047.46	0.237	2.00	3.00	1047.516				
19		PTV (i=-2.17%)				1047.333	3.00	2.00	1047.55	1047.27	0.278	2.00	3.00	1047.333				
20						1046.900	3.00	2.00	1047.07	1046.84	0.231	2.00	3.00	1046.900				
21						1046.466	3.00	2.00	1046.46	1046.41	0.056	2.00	3.00	1046.466				
21+5.35						1046.350	3.00	2.00	1046.16	1046.29	-0.131	2.00	3.00	1046.350				
21+5.35						1046.350	3.00	2.00	1046.16	1046.29	-0.131	2.00	3.00	1046.350				
21+5.35						1046.350	3.00	2.00	1046.16	1046.29	-0.131	2.00	3.00	1046.350				
22+1.62						1047.703	3.00	2.00	1047.80	1047.64	0.154	2.00	3.00	1047.703				
29+2.40						1047.703	3.00	2.00	1047.80	1047.64	0.154	2.00	3.00	1047.703				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-25

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA VC B.S.-23									CONCORDA COM A VIA VC B.S.-23						
0+3.80						1052.420	3.00	2.00	1052.44	1052.36	0.077	2.00	3.00	1052.420				BORDO DA VIA VC_B.S.-23
1						1051.997	3.00	2.00	1052.00	1051.94	0.064	2.00	3.00	1051.997				
2						1051.476	3.00	2.00	1051.60	1051.42	0.185	2.00	3.00	1051.476				
3						1050.954	3.00	2.00	1051.17	1050.89	0.280	2.00	3.00	1050.954				
4						1050.432	3.00	2.00	1050.66	1050.37	0.288	2.00	3.00	1050.432				
4+10.00		(i=-2.61%) PCV				1050.172	3.00	2.00	1050.27	1050.11	0.154	2.00	3.00	1050.172				
5						1049.776	3.00	2.00	1049.88	1049.72	0.161	2.00	3.00	1049.776				
5+10.00		PIV (Y=40.00m)				1049.110	3.00	2.00	1049.20	1049.05	0.152	2.00	3.00	1049.110				
6						1048.173	3.00	2.00	1048.33	1048.11	0.218	2.00	3.00	1048.173				
6+10.00		PTV (i=-13.42%)				1046.967	3.00	2.00	1046.94	1046.91	0.034	2.00	3.00	1046.967				
6+11.99						1046.700	3.00	2.00	1046.10	1046.64	-0.537	2.00	3.00	1046.700				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-26

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA VC B.S.-23									CONCORDA COM A VIA VC B.S.-23						
0+3.80						1056.790	3.00	2.00	1056.90	1056.73	0.174	2.00	3.00	1056.790				BORDO DA VIA VC B.S.-23
1						1057.023	3.00	2.00	1057.24	1056.96	0.272	2.00	3.00	1057.023				
2		(i=1.44%) PCV				1057.312	3.00	2.00	1057.47	1057.25	0.222	2.00	3.00	1057.312				
3		PIV (Y=40.00m)				1057.478	3.00	2.00	1057.58	1057.42	0.157	2.00	3.00	1057.478				
4		PTV (i=-1.00%)				1057.401	3.00	2.00	1057.52	1057.34	0.174	2.00	3.00	1057.401				
5						1057.202	3.00	2.00	1057.32	1057.14	0.175	2.00	3.00	1057.202				
5+18.27						1057.020	3.00	2.00	1057.20	1056.96	0.243	2.00	3.00	1057.020				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-27

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA VC B.S.-23									CONCORDA COM A VIA VC B.S.-23						
0+3.50						1061.580	3.00	2.00	1061.62	1061.52	0.095	2.00	3.00	1061.580				BORDO DA VIA VC_B.S.-23
1						1061.662	3.00	2.00	1061.81	1061.60	0.204	2.00	3.00	1061.662				
1+10.00		(i=-.50%) PCV				1061.711	3.00	2.00	1061.80	1061.65	0.148	2.00	3.00	1061.711				
2						1061.736	3.00	2.00	1061.78	1061.68	0.106	2.00	3.00	1061.736				
3		PIV (Y=60.00m)				1061.636	3.00	2.00	1061.66	1061.58	0.079	2.00	3.00	1061.636				
4						1061.336	3.00	2.00	1061.38	1061.28	0.107	2.00	3.00	1061.336				
4+10.00		PTV (i=-2.50%)				1061.111	3.00	2.00	1061.20	1061.05	0.145	2.00	3.00	1061.111				
5						1060.862	3.00	2.00	1061.00	1060.80	0.193	2.00	3.00	1060.862				
6						1060.363	3.00	2.00	1060.58	1060.30	0.275	2.00	3.00	1060.363				
6+4.51						1060.250	3.00	2.00	1060.50	1060.19	0.312	2.00	3.00	1060.250				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO: VC B.S.-28

ESTACAS	ELEMENTOS DO TRAÇADO		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES	
	Horizontal	Vertical	Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2				
			Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota		
0			CONCORDA COM A VIA B.S.-63									CONCORDA COM A VIA B.S.-63							
0+3.50						1060.580	3.00	2.00	1060.71	1060.52	0.185	2.00	3.00	1060.580					BORDO DA VIA B.S.-63
0+5.00		(i=-1.70%) PCV				1060.555	3.00	2.00	1060.69	1060.49	0.193	2.00	3.00	1060.555					
0+15.00		PIV (Y=20.00m)				1060.275	3.00	2.00	1060.69	1060.21	0.475	2.00	3.00	1060.275					
1						1060.052	3.00	2.00	1060.35	1059.99	0.362	2.00	3.00	1060.052					
1+5.00		PTV (i=-6.10%)				1059.775	3.00	2.00	1059.89	1059.71	0.173	2.00	3.00	1059.775					
1+10.00		(i=-6.10%) PCV				1059.470	3.00	2.00	1059.55	1059.41	0.139	2.00	3.00	1059.470					
2						1058.930	3.00	2.00	1059.04	1058.87	0.170	2.00	3.00	1058.930					
2+10.00		PIV (Y=40.00m)				1058.530	3.00	2.00	1058.72	1058.47	0.246	2.00	3.00	1058.530					
3						1058.270	3.00	2.00	1058.58	1058.21	0.370	2.00	3.00	1058.270					
3+10.00		PTV (i=-.50%)				1058.150	3.00	2.00	1058.44	1058.09	0.354	2.00	3.00	1058.150					
4						1058.100	3.00	2.00	1058.30	1058.04	0.263	2.00	3.00	1058.100					
4+10.00		(i=-.50%) PCV				1058.050	3.00	2.00	1058.30	1057.99	0.307	2.00	3.00	1058.050					
5						1057.811	3.00	2.00	1058.34	1057.75	0.586	2.00	3.00	1057.811					
5+10.00		PIV (Y=40.00m)				1057.195	3.00	2.00	1058.04	1057.14	0.907	2.00	3.00	1057.195					
6						1056.201	3.00	2.00	1056.38	1056.14	0.241	2.00	3.00	1056.201					
6+10.00		PTV (i=-15.60%)				1054.830	3.00	2.00	1054.81	1054.77	0.036	2.00	3.00	1054.830					
7		(i=-15.60%) PCV				1053.270	3.00	2.00	1053.74	1053.21	0.526	2.00	3.00	1053.270					
8		PIV (Y=40.00m)				1050.732	3.00	2.00	1050.95	1050.67	0.279	2.00	3.00	1050.732					
9		PTV (i=-3.96%)				1049.358	3.00	2.00	1049.55	1049.30	0.251	2.00	3.00	1049.358					
10						1048.566	3.00	2.00	1047.69	1048.51	-0.816	2.00	3.00	1048.566					
10+0.40						1048.550	3.00	2.00	1047.55	1048.49	-0.942	2.00	3.00	1048.550					



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-29

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES	
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2				
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota		
0			CONCORDA COM A VIA VC B.S.-28									CONCORDA COM A VIA VC B.S.-28							
0+3.90						1058.180	3.00	2.00	1058.03	1058.12	-0.088	2.00	3.00	1058.180					BORDO DA VIA VC B.S.-28
0+10.00		(i=-16.78%) PCV				1057.156	3.00	2.00	1057.05	1057.10	-0.051	2.00	3.00	1057.156					
1						1055.593	3.00	2.00	1055.67	1055.53	0.134	2.00	3.00	1055.593					
1+10.00		PIV (Y=40.00m)				1054.261	3.00	2.00	1054.47	1054.20	0.268	2.00	3.00	1054.261					
1+12.87	PC					1053.921	3.00	2.00	1054.14	1053.86	0.279	2.00	3.00	1053.921					
2						1053.159	3.00	2.00	1053.37	1053.10	0.272	2.00	3.00	1053.159					
2+3.03	(R=7.00m) PT					1052.870	3.00	2.00	1053.17	1052.81	0.361	2.00	3.00	1052.870					
2+10.00		PTV (i=-7.56%)				1052.288	3.00	2.00	1052.51	1052.23	0.285	2.00	3.00	1052.288					
3		(i=-7.56%) PCV				1051.531	3.00	2.00	1051.75	1051.47	0.279	2.00	3.00	1051.531					
3+10.00		PIV (Y=20.00m)				1050.665	3.00	2.00	1050.81	1050.60	0.208	2.00	3.00	1050.665					
4		PTV (i=-11.97%)				1049.578	3.00	2.00	1049.79	1049.52	0.276	2.00	3.00	1049.578					
4+10.00		(i=-11.97%) PCV				1048.382	3.00	2.00	1048.57	1048.32	0.246	2.00	3.00	1048.382					
5		PIV (Y=20.00m)				1047.375	3.00	2.00	1047.61	1047.31	0.296	2.00	3.00	1047.375					
5+10.00		PTV (i=-4.37%)				1046.748	3.00	2.00	1046.66	1046.69	-0.026	2.00	3.00	1046.748					
5+19.12						1046.350	3.00	2.00	1046.57	1046.29	0.282	2.00	3.00	1046.350					



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO: VC B.S.-30

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA B.S.-63									CONCORDA COM A VIA B.S.-63						
0+3.50						1057.580	3.00	2.00	1058.03	1057.52	0.513	2.00	3.00	1057.580				BORDO VIA_B.S.-63
1						1056.542	3.00	2.00	1057.21	1056.48	0.729	2.00	3.00	1056.542				
2						1055.283	3.00	2.00	1055.55	1055.22	0.327	2.00	3.00	1055.283				
2+10.00		(i=-6.29%) PCV				1054.654	3.00	2.00	1054.78	1054.59	0.188	2.00	3.00	1054.654				
3						1053.991	3.00	2.00	1054.07	1053.93	0.142	2.00	3.00	1053.991				
3+10.00		PIV (Y=40.00m)				1053.263	3.00	2.00	1053.35	1053.20	0.144	2.00	3.00	1053.263				
4						1052.468	3.00	2.00	1052.53	1052.41	0.124	2.00	3.00	1052.468				
4+10.00		PTV (i=-8.94%)				1051.608	3.00	2.00	1051.71	1051.55	0.160	2.00	3.00	1051.608				
5						1050.714	3.00	2.00	1050.98	1050.65	0.326	2.00	3.00	1050.714				
5+4.60	PC					1050.303	3.00	2.00	1050.64	1050.24	0.399	2.00	3.00	1050.303				
5+14.83	(R=150.00m) PT					1049.389	3.00	2.00	1049.76	1049.33	0.433	2.00	3.00	1049.389				
6						1048.927	3.00	2.00	1049.26	1048.87	0.391	2.00	3.00	1048.927				
7	PC					1047.168	3.00	2.00	1047.42	1047.11	0.316	2.00	3.00	1047.168				
7						1047.140	3.00	2.00	1047.40	1047.08	0.319	2.00	3.00	1047.140				
7+10.71	R=35.00m) PT=PC					1046.182	3.00	2.00	1046.46	1046.12	0.338	2.00	3.00	1046.182				
8						1045.352	3.00	2.00	1045.62	1045.29	0.329	2.00	3.00	1045.352				
8+0.91	(R=35.00m) PT					1045.271	3.00	2.00	1045.50	1045.21	0.291	2.00	3.00	1045.271				
8+10.00		(i=-8.94%) PCV				1044.459	3.00	2.00	1044.65	1044.40	0.246	2.00	3.00	1044.459				
9		PIV (Y=20.00m)				1043.649	3.00	2.00	1043.80	1043.59	0.206	2.00	3.00	1043.649				
9+10.00		PTV (i=-5.59%)				1043.006	3.00	2.00	1043.22	1042.95	0.276	2.00	3.00	1043.006				
9+18.16						1042.550	3.00	2.00	1042.75	1042.49	0.258	2.00	3.00	1042.550				
9+18.16						1042.550	3.00	2.00	1042.75	1042.49	0.257	2.00	3.00	1042.550				BORDO VIA_B.S.-63



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO: VC B.S.-31

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA B.S.-63															
0+3.50						1057.060	3.00	2.00	1057.41	1057.00	0.406	2.00	3.00	1057.060				BORDO VIA B.S.-63
1						1056.152	3.00	2.00	1056.49	1056.09	0.402	2.00	3.00	1056.152				
1+10.00		(i=-5.51%) PCV				1055.601	3.00	2.00	1055.77	1055.54	0.230	2.00	3.00	1055.601				
2						1055.016	3.00	2.00	1055.05	1054.96	0.091	2.00	3.00	1055.016				
2+10.00		PIV (Y=40.00m)				1054.360	3.00	2.00	1054.31	1054.30	0.009	2.00	3.00	1054.360				
3						1053.635	3.00	2.00	1053.63	1053.57	0.058	2.00	3.00	1053.635				
3+10.00		PTV (i=-8.30%)				1052.840	3.00	2.00	1052.91	1052.78	0.130	2.00	3.00	1052.840				
4						1052.010	3.00	2.00	1052.20	1051.95	0.251	2.00	3.00	1052.010				
5						1050.349	3.00	2.00	1050.67	1050.29	0.376	2.00	3.00	1050.349				
6						1048.689	3.00	2.00	1048.99	1048.63	0.362	2.00	3.00	1048.689				
7						1047.029	3.00	2.00	1047.20	1046.97	0.233	2.00	3.00	1047.029				
8						1045.369	3.00	2.00	1045.47	1045.31	0.164	2.00	3.00	1045.369				
9						1043.708	3.00	2.00	1043.86	1043.65	0.211	2.00	3.00	1043.708				
9+12.75						1042.650	3.00	2.00	1043.06	1042.59	0.471	2.00	3.00	1042.650				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO:

VC B.S.-33

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA B.S.-63						1054.89			CONCORDA COM A VIA B.S.-63						
0+3,500		i=-8,92%				1054.730	3.00	2.00	1054.86	1054.67	0.185	2.00	3.00	1054.730				=BORDO VIA_B.S.-63
1		PCV				1053.258	3.00	2.00	1053.28	1053.20	0.078	2.00	3.00	1053.258				
2		PIV (Y=40,000)				1051.630	3.00	2.00	1051.73	1051.57	0.158	2.00	3.00	1051.630				
3		PTV				1050.313	3.00	2.00	1050.25	1050.25	0.001	2.00	3.00	1050.313				
4		i=-5,80%				1049.152	3.00	2.00	1048.91	1049.09	-0.181	2.00	3.00	1049.152				
4+16,628	PC (R=4,00m)					1048.186	3.00	2.00	1047.87	1048.13	-0.259	2.00	3.00	1048.186				
5						1047.991	3.00	2.00	1047.52	1047.93	-0.410	2.00	3.00	1047.991				
5+2,734	PT					1047.832	3.00	2.00	1047.46	1047.77	-0.313	2.00	3.00	1047.832				
5+19,984	PC					1046.831	3.00	2.00	1047.64	1046.77	0.868	2.00	3.00	1046.831				
6	(R=4,00m)					1046.830	3.00	2.00	1047.64	1046.77	0.867	2.00	3.00	1046.830				
6+5,758	PT					1046.495	3.00	2.00	1047.33	1046.44	0.894	2.00	3.00	1046.495				
7						1045.668	3.00	2.00	1046.26	1045.61	0.649	2.00	3.00	1045.668				
8						1044.507	3.00	2.00	1044.74	1044.45	0.289	2.00	3.00	1044.507				
8+11,323						1043.850	3.00	2.00	1043.81	1043.79	0.018	2.00	3.00	1043.850				FIM DA VIA



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: Sep-13

ALINHAMENTO: VC B.S.-34

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA B.S.-63									#VALUE!						
0+3.50						1055.320	3.00	2.00	1055.59	1055.26	0.325	2.00	3.00	1055.320				BORDO VIA_B.S.-63
1						1054.444	3.00	2.00	1055.01	1054.38	0.621	2.00	3.00	1054.444				
1+11.24	PC					1053.847	3.00	2.00	1054.15	1053.79	0.360	2.00	3.00	1053.847				
2						1053.382	3.00	2.00	1053.60	1053.32	0.277	2.00	3.00	1053.382				
2+2.26	(R=30.00m) PT					1053.263	3.00	2.00	1053.40	1053.20	0.197	2.00	3.00	1053.263				
3		(i=-5.31%) PCV				1052.321	3.00	2.00	1052.50	1052.26	0.235	2.00	3.00	1052.321				
3+4.50	PC					1052.092	3.00	2.00	1052.32	1052.03	0.292	2.00	3.00	1052.092				
3+10.00		PIV (Y=20.00m)				1051.838	3.00	2.00	1052.11	1051.78	0.331	2.00	3.00	1051.838				
3+11.07	(R=9.00m) PT					1051.793	3.00	2.00	1052.06	1051.73	0.331	2.00	3.00	1051.793				
4		PTV (i=-3.37%)				1051.453	3.00	2.00	1051.67	1051.39	0.275	2.00	3.00	1051.453				
4+12.42	PC					1051.034	3.00	2.00	1050.98	1050.97	0.009	2.00	3.00	1051.034				
5						1050.779	3.00	2.00	1050.74	1050.72	0.021	2.00	3.00	1050.779				
5+4.83	(R=9.00m) PT					1050.616	3.00	2.00	1050.59	1050.56	0.032	2.00	3.00	1050.616				
5+10.00		(i=-3.37%) PCV				1050.442	3.00	2.00	1050.46	1050.38	0.080	2.00	3.00	1050.442				
5+14.75	PC					1050.269	3.00	2.00	1050.38	1050.21	0.171	2.00	3.00	1050.269				
6		PIV (Y=20.00m)				1050.051	3.00	2.00	1050.28	1049.99	0.289	2.00	3.00	1050.051				
6+7.30	(R=9.00m) PT					1049.697	3.00	2.00	1049.91	1049.64	0.275	2.00	3.00	1049.697				
6+10.00		PTV (i=-5.53%)				1049.552	3.00	2.00	1049.75	1049.49	0.255	2.00	3.00	1049.552				
7						1048.999	3.00	2.00	1049.10	1048.94	0.161	2.00	3.00	1048.999				
8						1047.893	3.00	2.00	1048.14	1047.83	0.310	2.00	3.00	1047.893				
9						1046.786	3.00	2.00	1047.14	1046.73	0.416	2.00	3.00	1046.786				
10						1045.680	3.00	2.00	1045.98	1045.62	0.361	2.00	3.00	1045.680				
11						1044.574	3.00	2.00	1044.79	1044.51	0.279	2.00	3.00	1044.574				
12						1043.468	3.00	2.00	1043.78	1043.41	0.372	2.00	3.00	1043.468				
13						1042.362	3.00	2.00	1042.66	1042.30	0.353	2.00	3.00	1042.362				
14						1041.256	3.00	2.00	1041.43	1041.20	0.233	2.00	3.00	1041.256				
14+10.00		(i=-5.53%) PCV				1040.703	3.00	2.00	1040.91	1040.64	0.263	2.00	3.00	1040.703				
15		PIV (Y=20.00m)				1040.228	3.00	2.00	1040.44	1040.17	0.274	2.00	3.00	1040.228				
15+10.00		PTV (i=-2.41%)				1039.909	3.00	2.00	1040.04	1039.85	0.191	2.00	3.00	1039.909				
16						1039.668	3.00	2.00	1039.82	1039.61	0.214	2.00	3.00	1039.668				
16+13.20						1039.350	3.00	2.00	1039.53	1039.29	0.242	2.00	3.00	1039.350				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: set/13

ALINHAMENTO: VC B.S.-35

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA_B.S.-63						1056,16			CONCORDA COM A VIA_B.S.-63						
0+4,11		i=-9,47%				1056,151	3,05	2,00	1056,06	1056,09	-0,034	2,00	3,05	1056,151				BORDO DA VIA_B.S.-63
1		PCV				1054,646	3,05	2,00	1054,59	1054,58	0,009	2,00	3,05	1054,646				
2		PIV(Y=40,000m)				1053,085	3,05	2,00	1053,19	1053,02	0,163	2,00	3,05	1053,085				
3		PTV-1				1052,191	3,05	2,00	1052,47	1052,13	0,335	2,00	3,05	1052,191				
3+5,000		i=-2,80%				1052,051	3,05	2,00	1052,29	1051,99	0,296	2,00	3,05	1052,051				
3+10,00		PCV				1051,911	3,05	2,00	1052,13	1051,85	0,276	2,00	3,05	1051,911				
4						1051,597	3,05	2,00	1051,83	1051,54	0,293	2,00	3,05	1051,597				
4+10,00		PIV(Y=40,000m)				1051,213	3,05	2,00	1051,38	1051,15	0,226	2,00	3,05	1051,213				
5						1050,761	3,05	2,00	1050,84	1050,70	0,139	2,00	3,05	1050,761				
5+10,00		PTV				1050,240	3,05	2,00	1050,36	1050,18	0,178	2,00	3,05	1050,240				
6						1049,685	3,05	2,00	1049,87	1049,62	0,249	2,00	3,05	1049,685				
7		i=-5,55%				1048,574	3,05	2,00	1048,70	1048,51	0,186	2,00	3,05	1048,574				
8						1047,463	3,05	2,00	1047,42	1047,40	0,021	2,00	3,05	1047,463				
9						1046,353	3,05	2,00	1046,49	1046,29	0,197	2,00	3,05	1046,353				
9+2,826						1046,196	3,05	2,00	1046,14	1046,13	0,007	2,00	3,05	1046,196				
10						1045,242	3,05	2,00	1045,54	1045,18	0,358	2,00	3,05	1045,242				
10+14,112	PI					1044,458	3,05	2,00	1044,90	1044,40	0,504	2,00	3,05	1044,458				
11						1044,131	3,05	2,00	1044,58	1044,07	0,511	2,00	3,05	1044,131				
12						1043,020	3,05	2,00	1043,21	1042,96	0,251	2,00	3,05	1043,020				
12+15,652						1042,151	3,05	2,00	1042,19	1042,09	0,105	2,00	3,05	1042,151				FIM DA VIA

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0						1052.115	3.50	2.00	1064.94	1052.05	12.893	-2.00	3.50	1051.975				
0+3.91						1062.005	3.50	2.00	1064.93	1061.94	2.996	-2.00	3.50	1061.865				BORDO
0+10.00		(i=10.85%) PCV				1062.666	3.50	2.00	1064.89	1062.60	2.296	-2.00	3.50	1062.526				
1						1063.595	3.50	2.00	1064.85	1063.52	1.326	-2.00	3.50	1063.455				
1+10.00		PIV (Y=40.00m)				1064.213	3.50	2.00	1064.73	1064.14	0.589	-2.00	3.50	1064.073				
2						1064.519	3.50	2.00	1064.65	1064.45	0.200	-2.00	3.50	1064.379				
2+10.00		PTV (i=-1.60%)				1064.515	3.50	2.00	1064.57	1064.45	0.120	-2.00	3.50	1064.375				
2+10.00		(i=-1.60%) PCV				1064.515	3.50	2.00	1064.57	1064.44	0.120	-2.00	3.50	1064.375				
3						1064.373	3.50	2.00	1064.43	1064.30	0.124	-2.00	3.50	1064.233				
4		PIV (Y=60.00m)				1064.199	3.50	2.00	1064.31	1064.13	0.181	-2.00	3.50	1064.059				
5						1064.171	3.50	2.00	1064.42	1064.10	0.316	-2.00	3.50	1064.031				
5+10.00		PTV (i=.59%)				1064.211	3.50	2.00	1064.47	1064.14	0.332	-2.00	3.50	1064.071				
6						1064.270	3.50	2.00	1064.51	1064.20	0.313	-2.00	3.50	1064.130				
7						1064.388	3.50	2.00	1064.62	1064.32	0.298	-2.00	3.50	1064.248				
7+6.07						1064.424	3.50	2.00	1064.65	1064.35	0.296	-2.00	3.50	1064.284				= EST. 17+6.01 DA VIA VIA B.S.-55
8						1064.506	3.50	2.00	1064.71	1064.44	0.278	-2.00	3.50	1064.366				
9						1064.623	3.50	2.00	1064.81	1064.55	0.256	-2.00	3.50	1064.483				
10						1064.741	3.50	2.00	1064.89	1064.67	0.221	-2.00	3.50	1064.601				
11						1064.859	3.50	2.00	1065.02	1064.79	0.228	-2.00	3.50	1064.719				
11+10.64						1064.921	3.50	2.00	1065.10	1064.85	0.249	-2.00	3.50	1064.781				= EST. 0+0.00 DA VIA VIA B.S.-56
11+15.00		(i=.59%) PCV				1064.947	3.50	2.00	1065.13	1064.88	0.255	-2.00	3.50	1064.807				
11+18.71						1064.971	3.50	2.00	1065.16	1064.90	0.258	-2.00	3.50	1064.831				= EST. 0+0.00 DA VIA VC B.S.-15
12						1064.981	3.50	2.00	1065.18	1064.91	0.265	-2.00	3.50	1064.841				
12+10.00		PIV (Y=30.00m)				1065.075	3.50	2.00	1065.28	1065.01	0.273	-2.00	3.50	1064.935				
13						1065.206	3.50	2.00	1065.39	1065.14	0.257	-2.00	3.50	1065.066				
13+5.00		PTV (i=1.67%)				1065.285	3.50	2.00	1065.47	1065.22	0.256	-2.00	3.50	1065.145				
14						1065.535	3.50	2.00	1065.72	1065.47	0.254	-2.00	3.50	1065.395				
15						1065.868	3.50	2.00	1066.10	1065.80	0.298	-2.00	3.50	1065.728				
16		(i=1.67%) PCV				1066.202	3.50	2.00	1066.39	1066.13	0.255	-2.00	3.50	1066.062				
17		PIV (Y=40.00m)				1066.344	3.50	2.00	1066.49	1066.27	0.220	-2.00	3.50	1066.204				
18		PTV (i=-2.16%)				1066.103	3.50	2.00	1066.35	1066.03	0.319	-2.00	3.50	1065.963				
19						1065.670	3.50	2.00	1066.04	1065.60	0.438	-2.00	3.50	1065.530				
20						1065.238	3.50	2.00	1065.48	1065.17	0.316	-2.00	3.50	1065.098				
21						1064.806	3.50	2.00	1064.89	1064.74	0.158	-2.00	3.50	1064.666				
22						1064.374	3.50	2.00	1064.38	1064.30	0.077	-2.00	3.50	1064.234				
23						1063.941	3.50	2.00	1063.97	1063.87	0.094	-2.00	3.50	1063.801				
24						1063.509	3.50	2.00	1063.56	1063.44	0.117	-2.00	3.50	1063.369				
25						1063.077	3.50	2.00	1063.13	1063.01	0.118	-2.00	3.50	1062.937				
26						1062.645	3.50	2.00	1062.67	1062.57	0.095	-2.00	3.50	1062.505				
27						1062.220	3.50	2.00	1062.27	1062.15	0.121	-2.00	3.50	1062.080				= EST. 17+8.45 DA VIA VIA B.S.-58



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF
 SETOR HABITACIONAL ARNIQUEIRA
 DATA: Sep-13

ALINHAMENTO: VIA B.S.-54

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
27+10.26	PC					1061.991	3.50	2.00	1062.08	1061.92	0.161	-2.00	3.50	1061.851				
28						1061.780	3.50	2.00	1061.85	1061.71	0.137	-2.00	3.50	1061.640				
29						1061.348	3.50	2.00	1061.41	1061.28	0.136	-2.00	3.50	1061.208				
30						1060.916	3.50	2.00	1061.01	1060.85	0.160	-2.00	3.50	1060.776				
31		(i=-2.16%) PCV				1060.483	3.50	2.00	1060.61	1060.41	0.200	-2.00	3.50	1060.343				
32						1060.085	3.50	2.00	1060.24	1060.02	0.223	-2.00	3.50	1059.945				
32+10.00		PIV (Y=60.00m)				1059.912	3.50	2.00	1060.07	1059.84	0.230	-2.00	3.50	1059.772				
33						1059.756	3.50	2.00	1059.94	1059.69	0.257	-2.00	3.50	1059.616				
34		PTV (i=-1.13%)				1059.496	3.50	2.00	1059.72	1059.43	0.296	-2.00	3.50	1059.356				
35						1059.270	3.50	2.00	1059.45	1059.20	0.250	-2.00	3.50	1059.130				
36						1059.044	3.50	2.00	1059.25	1058.97	0.273	-2.00	3.50	1058.904				
37						1058.818	3.50	2.00	1059.04	1058.75	0.291	-2.00	3.50	1058.678				
38						1058.592	3.50	2.00	1058.85	1058.52	0.330	-2.00	3.50	1058.452				
39						1058.365	3.50	2.00	1058.62	1058.30	0.326	-2.00	3.50	1058.225				
40						1058.139	3.50	2.00	1058.43	1058.07	0.357	-2.00	3.50	1057.999				
41						1057.913	3.50	2.00	1057.93	1057.84	0.090	-2.00	3.50	1057.773				
42						1057.687	3.50	2.00	1057.70	1057.62	0.078	-2.00	3.50	1057.547				
43						1057.461	3.50	2.00	1057.56	1057.39	0.171	-2.00	3.50	1057.321				
43+5.00		(i=-1.13%) PCV				1057.405	3.50	2.00	1057.50	1057.33	0.160	-2.00	3.50	1057.265				
43+16.30						1057.221	3.50	2.00	1057.39	1057.15	0.241	-2.00	3.50	1057.081			= EST. 13+16.26 DA VIA VIA B.S.-61	
44		PIV (Y=30.00m)				1057.136	3.50	2.00	1057.30	1057.07	0.229	-2.00	3.50	1056.996				
44+12.86	(R=750.00m) PT					1056.749	3.50	2.00	1056.82	1056.68	0.145	-2.00	3.50	1056.609				
44+15.00		PTV (i=-3.76%)				1056.670	3.50	2.00	1056.74	1056.60	0.143	-2.00	3.50	1056.530				
45						1056.482	3.50	2.00	1056.54	1056.41	0.125	-2.00	3.50	1056.342				
46						1055.729	3.50	2.00	1055.80	1055.66	0.143	-2.00	3.50	1055.589				
46+4.06	PC					1055.576	3.50	2.00	1055.67	1055.51	0.167	-2.00	3.50	1055.436				
46+16.01						1055.126	3.50	2.00	1055.31	1055.06	0.249	-2.00	3.50	1054.986			= EST. 7+7.06 DA VIA VIA B.S.-62	
47						1054.976	3.50	2.00	1055.15	1054.91	0.239	-2.00	3.50	1054.836				
47+5.00		(i=-3.76%) PCV				1054.788	3.50	2.00	1054.94	1054.72	0.218	-2.00	3.50	1054.648				
48						1054.080	3.50	2.00	1054.07	1054.01	0.060	-2.00	3.50	1053.940				
48+5.00		PIV (Y=40.00m)				1053.781	3.50	2.00	1053.78	1053.71	0.073	-2.00	3.50	1053.641				
49						1052.692	3.50	2.00	1052.86	1052.62	0.240	-2.00	3.50	1052.552				
49+5.00		PTV (i=-8.84%)				1052.266	3.50	2.00	1052.42	1052.20	0.226	-2.00	3.50	1052.126				
49+6.70	(R=300.00m) PT					1052.115	3.50	2.00	1052.27	1052.05	0.220	-2.00	3.50	1051.975				
50						1050.939	3.50	2.00	1050.83	1050.87	-0.035	-2.00	3.50	1050.799				
51						1049.170	3.50	2.00	1049.36	1049.10	0.264	-2.00	3.50	1049.030				
51+7.80						1048.481	3.50	2.00	1048.75	1048.41	0.336	-2.00	3.50	1048.341				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: set/13

ALINHAMENTO:

VC B.S.-57

ESTACAS	ELEMENTOS DO TRAÇADO		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	Horizontal	Vertical	Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
			Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0		i=-10,9%				1048,730	3,00	2,00	1048,57	1048,67	-0,102	2,00	3,00	1048,730				= BORDO DA VIA_B.S.-54
0+10,000		PCV				1047,640	3,00	2,00	1047,30	1047,58	-0,283	2,00	3,00	1047,640				
1		PIV (Y=20,000)				1046,776	3,00	2,00	1046,76	1046,72	0,043	2,00	3,00	1046,776				
1+0,217	PI					1046,763	3,00	2,00	1046,75	1046,70	0,046	2,00	3,00	1046,763				
1+10,000		PTV				1046,365	3,00	2,00	1046,68	1046,30	0,371	2,00	3,00	1046,365				
1+17,203	PI	i=-1,85%				1046,232	3,00	2,00	1046,70	1046,17	0,527	2,00	3,00	1046,232				
2						1046,180	3,00	2,00	1046,71	1046,12	0,588	2,00	3,00	1046,180				
2+7,798	PI					1046,035	3,00	2,00	1046,60	1045,98	0,627	2,00	3,00	1046,035				
2+17,834	PI					1045,850	3,00	2,00	1046,37	1045,79	0,577	2,00	3,00	1045,850				
3						1045,810	3,00	2,00	1046,24	1045,75	0,489	2,00	3,00	1045,810				
3+14,641	PI					1045,538	3,00	2,00	1045,44	1045,48	-0,039	2,00	3,00	1045,538				
4						1045,439	3,00	2,00	1045,37	1045,38	-0,006	2,00	3,00	1045,439				
4+15,627						1045,150	3,00	2,00	1045,48	1045,09	0,392	2,00	3,00	1045,150				FIM DA VIA



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF
 SETOR HABITACIONAL ARNIQUEIRA

DATA: set/13

ALINHAMENTO:

VIA B.S.-58

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota	Cota	Cota	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)	Terreno	Projeto	Verm.	I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA BS-54						1062,27			CONCORDA COM A VIA BS-54						
0+3,500		i=-6,19%				1062,025	3,00	-2,00	1062,24	1062,09	0,153	2,00	3,00	1062,145				= BORDO DA VIA BS-54
1						1061,003	3,00	-2,00	1061,10	1061,06	0,039	2,00	3,00	1061,123				
2						1059,765	3,00	-2,00	1059,84	1059,82	0,020	2,00	3,00	1059,885				
3						1058,526	3,00	-2,00	1058,67	1058,59	0,086	2,00	3,00	1058,646				
4						1057,288	3,00	-2,00	1057,55	1057,35	0,199	2,00	3,00	1057,408				
5						1056,049	3,00	-2,00	1056,42	1056,11	0,310	2,00	3,00	1056,169				
6						1054,811	3,00	-2,00	1055,05	1054,87	0,177	2,00	3,00	1054,931				
7						1053,572	3,00	-2,00	1053,67	1053,63	0,034	2,00	3,00	1053,692				
7+14,004						1052,705	3,00	-2,00	1052,83	1052,77	0,069	2,00	3,00	1052,825				FIM DA VIA



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA X - GUARÁ - DF

SETOR HABITACIONAL BERNARDO SAYÃO

DATA: set/13

ALINHAMENTO:

VC B.S.-59

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0						1038,200	3,00	2,00	1038,38	1038,14	0,236	2,00	3,00	1038,200				INÍCIO DA VIA
0+08,006	PC	i=-0,66%				1038,082	3,00	2,00	1038,27	1038,02	0,249	2,00	3,00	1038,082				
1	(R=7,50m)					1038,069	3,00	2,00	1038,27	1038,01	0,259	2,00	3,00	1038,069				
1+2,742	PT					1038,051	3,00	2,00	1038,26	1037,99	0,272	2,00	3,00	1038,051				
2						1037,937	3,00	2,00	1038,08	1037,88	0,205	2,00	3,00	1037,937				
2+15,511	PC (R=13,50m)					1037,836	3,00	2,00	1037,71	1037,78	-0,065	2,00	3,00	1037,836				
2+18,683	PT					1037,815	3,00	2,00	1037,71	1037,75	-0,042	2,00	3,00	1037,815				
3						1037,806	3,00	2,00	1037,71	1037,75	-0,033	2,00	3,00	1037,806				
4						1037,675	3,00	2,00	1037,72	1037,61	0,105	2,00	3,00	1037,675				
5						1037,543	3,00	2,00	1037,56	1037,48	0,079	2,00	3,00	1037,543				
5+18,660	PC					1037,421	3,00	2,00	1037,55	1037,36	0,188	2,00	3,00	1037,421				
6	(R=18,50m)					1037,412	3,00	2,00	1037,53	1037,35	0,176	2,00	3,00	1037,412				
6+9,147	PT					1037,352	3,00	2,00	1037,43	1037,29	0,140	2,00	3,00	1037,352				
7						1037,281	3,00	2,00	1037,35	1037,22	0,134	2,00	3,00	1037,281				
7+12,331						1037,200	3,00	2,00	1037,22	1037,14	0,080	2,00	3,00	1037,200				= EST 16+0,15 DA VC BS-32
8						1037,150	3,00	2,00	1037,16	1037,09	0,070	2,00	3,00	1037,150				
8+4,916	PC (R=18,50m)					1037,117	3,00	2,00	1037,16	1037,06	0,103	2,00	3,00	1037,117				
8+12,331	PT					1037,069	3,00	2,00	1037,05	1037,01	0,043	2,00	3,00	1037,069				
9						1037,018	3,00	2,00	1036,96	1036,96	0,004	2,00	3,00	1037,018				
10						1036,887	3,00	2,00	1036,79	1036,83	-0,033	2,00	3,00	1036,887				
10+2,243	PC (R=23,50m)					1036,872	3,00	2,00	1036,76	1036,81	-0,052	2,00	3,00	1036,872				
10+8,041	PT					1036,834	3,00	2,00	1036,68	1036,77	-0,095	2,00	3,00	1036,834				
11						1036,756	3,00	2,00	1036,67	1036,70	-0,024	2,00	3,00	1036,756				
12						1036,624	3,00	2,00	1036,67	1036,56	0,103	2,00	3,00	1036,624				
12+4,233	PC (R=7,50m)					1036,596	3,00	2,00	1036,57	1036,54	0,032	2,00	3,00	1036,596				
12+11,986	PT					1036,546	3,00	2,00	1036,42	1036,49	-0,061	2,00	3,00	1036,546				
13						1036,493	3,00	2,00	1036,39	1036,43	-0,046	2,00	3,00	1036,493				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA B.S.-60

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0						1053.833	3.00	2.00	1059.95	1053.77	6.175	-2.00	3.00	1053.713				
0+3.54						1059.695	3.00	2.00	1059.94	1059.64	0.303	-2.00	3.00	1059.575			BORDO	
1						1058.513	3.00	2.00	1058.82	1058.45	0.364	-2.00	3.00	1058.393				
2						1057.076	3.00	2.00	1057.37	1057.02	0.357	-2.00	3.00	1056.956				
3						1055.639	3.00	2.00	1055.92	1055.58	0.337	-2.00	3.00	1055.519				
3+5.00		(i=-7.18%) PCV				1055.280	3.00	2.00	1055.53	1055.22	0.309	-2.00	3.00	1055.160				
4						1054.386	3.00	2.00	1054.50	1054.33	0.177	-2.00	3.00	1054.266				
4+2.02	PC					1054.294	3.00	2.00	1054.47	1054.23	0.234	-2.00	3.00	1054.174				
4+15.00		PIV (Y=60.00m)				1053.859	3.00	2.00	1053.98	1053.80	0.176	-2.00	3.00	1053.739				
4+16.21	(R=9.00m) PT					1053.833	3.00	2.00	1053.96	1053.77	0.186	-2.00	3.00	1053.713				
5						1053.766	3.00	2.00	1053.96	1053.71	0.257	-2.00	3.00	1053.646				
6						1053.798	3.00	2.00	1054.04	1053.74	0.304	-2.00	3.00	1053.678				
6+5.00		PTV (i=2.61%)				1053.908	3.00	2.00	1054.10	1053.85	0.247	-2.00	3.00	1053.788				
7						1054.299	3.00	2.00	1054.42	1054.24	0.177	-2.00	3.00	1054.179				
7+16.31						1054.725	3.00	2.00	1054.94	1054.67	0.277	-2.00	3.00	1054.605				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA B.S.-61

ESTACAS	ELEMENTOS DO TRAÇADO		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	Horizontal	Vertical	Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
			Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA BS-54						1057.37			CONCORDA COM A VIA BS-54						
0+3,930		i=-6,57%				1056.965	3.00	-2.00	1057.28	1057.02	0.258	2.00	3.00	1057.085				= BORDO DA VIA BS-54
1						1055.909	3.00	-2.00	1055.90	1055.97	-0.071	2.00	3.00	1056.029				
2						1054.594	3.00	-2.00	1054.61	1054.65	-0.044	2.00	3.00	1054.714				
3						1053.279	3.00	-2.00	1053.30	1053.34	-0.035	2.00	3.00	1053.399				
3+16,965						1052.164	3.00	-2.00	1052.25	1052.22	0.028	2.00	3.00	1052.284				
4						1051.964	3.00	-2.00	1052.07	1052.02	0.046	2.00	3.00	1052.084				
5						1050.649	3.00	-2.00	1050.87	1050.71	0.159	2.00	3.00	1050.769				
6						1049.335	3.00	-2.00	1049.82	1049.39	0.422	2.00	3.00	1049.455				
7						1048.020	3.00	-2.00	1048.67	1048.08	0.591	2.00	3.00	1048.140				
7+10,000		PCV				1047.362	3.00	-2.00	1048.02	1047.42	0.602	2.00	3.00	1047.482				
8		PIV (Y=20,000)				1046.839	3.00	-2.00	1047.47	1046.90	0.570	2.00	3.00	1046.959				
8+10,000		PTV				1046.585	3.00	-2.00	1047.10	1046.64	0.456	2.00	3.00	1046.705				
8+13,315		i=-1,20%				1046.545	3.00	-2.00	1046.98	1046.60	0.380	2.00	3.00	1046.665				
8+16,631						1046.505	3.00	-2.00	1046.90	1046.57	0.335	2.00	3.00	1046.625				FIM DA VIA



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA_B.S.-62

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA BS-54						1055.18			CONCORDA COM A VIA BS-54						
0+4,050		i=7,22%				1054.980	3.00	-2.00	1055.20	1055.04	0.164	2.00	3.00	1055.100				= BORDO DA VIA BS-54
1						1053.828	3.00	-2.00	1054.06	1053.888	0.176	2.00	3.00	1053.948				
1+7,025						1053.321	3.00	-2.00	1053.43	1053.381	0.053	2.00	3.00	1053.441				
2						1052.384	3.00	-2.00	1052.28	1052.444	-0.165	2.00	3.00	1052.504				
2+10,000		PCV				1051.662	3.00	-2.00	1051.56	1051.722	-0.164	2.00	3.00	1051.782				
3		PIV (γ=20,000)				1050.989	3.00	-2.00	1050.96	1051.049	-0.086	2.00	3.00	1051.109				
3+10,000		PTV				1050.413	3.00	-2.00	1050.48	1050.473	0.008	2.00	3.00	1050.533				
4		i=-5,27%				1049.886	3.00	-2.00	1050.04	1049.946	0.092	2.00	3.00	1050.006				
4+14,120						1049.141	3.00	-2.00	1049.34	1049.201	0.138	2.00	3.00	1049.261				
5						1048.831	3.00	-2.00	1049.07	1048.891	0.176	2.00	3.00	1048.951				
5+18,239						1047.870	3.00	-2.00	1047.93	1047.93	-0.001	2.00	3.00	1047.990				FIM DA VIA



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA B.S.-63

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0						1056.330	3.50	2.00	1064.05	1056.26	7.788	-2.00	3.50	1056.190				= EST. 9+6.25 DA VIA PRINCIPAL_47-ESQ
0+3.85						1063.775	3.50	2.00	1064.28	1063.71	0.577	-2.00	3.50	1063.635				BORDO
1						1064.425	3.50	2.00	1064.68	1064.36	0.324	-2.00	3.50	1064.285				
2		(i=4.02%) PCV				1065.230	3.50	2.00	1065.39	1065.16	0.229	-2.00	3.50	1065.090				
3		PIV (Y=40.00m)				1065.904	3.50	2.00	1066.05	1065.83	0.218	-2.00	3.50	1065.764				
4		PTV (i=1.40%)				1066.315	3.50	2.00	1066.48	1066.25	0.230	-2.00	3.50	1066.175				
5		(i=1.40%) PCV				1066.595	3.50	2.00	1066.64	1066.53	0.118	-2.00	3.50	1066.455				
5+8.41						1066.698	3.50	2.00	1066.75	1066.63	0.118	-2.00	3.50	1066.558				= EST. 3+1.85 DA VIA VIA_B.S.-64
5+10.00		PIV (Y=20.00m)				1066.715	3.50	2.00	1066.60	1066.64	-0.046	-2.00	3.50	1066.575				
5+12.03	PC					1066.734	3.50	2.00	1066.35	1066.66	-0.318	-2.00	3.50	1066.594				
6		PTV (i=.58%)				1066.793	3.50	2.00	1065.75	1066.72	-0.978	-2.00	3.50	1066.653				
6+11.29	(R=50.00m) PT					1066.859	3.50	2.00	1065.51	1066.79	-1.282	-2.00	3.50	1066.719				
7						1066.910	3.50	2.00	1065.77	1066.84	-1.073	-2.00	3.50	1066.770				
7+5.72						1066.943	3.50	2.00	1065.47	1066.87	-1.404	-2.00	3.50	1066.803				= EST. 0+0.00 DA VIA VC_B.S.-18
8						1067.027	3.50	2.00	1066.33	1066.96	-0.624	-2.00	3.50	1066.887				
9						1067.143	3.50	2.00	1066.94	1067.07	-0.138	-2.00	3.50	1067.003				
10						1067.260	3.50	2.00	1067.38	1067.19	0.192	-2.00	3.50	1067.120				
10+10.00		(i=.58%) PCV				1067.318	3.50	2.00	1067.48	1067.25	0.233	-2.00	3.50	1067.178				
10+12.85	PC					1067.332	3.50	2.00	1067.47	1067.26	0.209	-2.00	3.50	1067.192				
11						1067.342	3.50	2.00	1067.49	1067.27	0.221	-2.00	3.50	1067.202				
11+10.00		PIV (Y=40.00m)				1067.297	3.50	2.00	1067.69	1067.23	0.461	-2.00	3.50	1067.157				
11+16.17	(R=18.00m) PT					1067.234	3.50	2.00	1067.51	1067.16	0.344	-2.00	3.50	1067.094				
12						1067.182	3.50	2.00	1067.37	1067.11	0.255	-2.00	3.50	1067.042				
12+10.00		PTV (i=-2.18%)				1066.999	3.50	2.00	1067.09	1066.93	0.162	-2.00	3.50	1066.859				
13						1066.780	3.50	2.00	1066.88	1066.71	0.168	-2.00	3.50	1066.640				
13+10.00		(i=-2.18%) PCV				1066.562	3.50	2.00	1066.68	1066.49	0.188	-2.00	3.50	1066.422				
14						1066.349	3.50	2.00	1066.48	1066.28	0.198	-2.00	3.50	1066.209				
15						1065.955	3.50	2.00	1066.12	1065.88	0.234	-2.00	3.50	1065.815				
16						1065.602	3.50	2.00	1065.80	1065.53	0.263	-2.00	3.50	1065.462				
17		PIV (Y=140.00m)				1065.292	3.50	2.00	1065.53	1065.22	0.304	-2.00	3.50	1065.152				
18						1065.023	3.50	2.00	1065.24	1064.95	0.291	-2.00	3.50	1064.883				
18+18.30						1064.814	3.50	2.00	1065.05	1064.74	0.310	-2.00	3.50	1064.674				= EST. 0+0.00 DA VIA VIA_B.S.-65
19						1064.796	3.50	2.00	1065.04	1064.73	0.310	-2.00	3.50	1064.656				
19+11.00	PC					1064.690	3.50	2.00	1064.90	1064.62	0.276	-2.00	3.50	1064.550				
20						1064.612	3.50	2.00	1064.79	1064.54	0.247	-2.00	3.50	1064.472				
20+10.00		PTV (i=-.71%)				1064.535	3.50	2.00	1064.68	1064.47	0.218	-2.00	3.50	1064.395				
21						1064.464	3.50	2.00	1064.59	1064.39	0.193	-2.00	3.50	1064.324				
21+5.32	(R=196.50m) PT					1064.426	3.50	2.00	1064.53	1064.36	0.176	-2.00	3.50	1064.286				
22						1064.321	3.50	2.00	1064.38	1064.25	0.126	-2.00	3.50	1064.181				
22+8.62						1064.259	3.50	2.00	1064.33	1064.19	0.139	-2.00	3.50	1064.119				= EST. 16+17.84 DA VIA VC_B.S.-22


NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA B.S.-63

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
22+16.62						1064.202	3.50	2.00	1064.25	1064.13	0.122	-2.00	3.50	1064.062				= EST. 0+0.00 DA VIA VC_B.S.-23
23						1064.178	3.50	2.00	1064.24	1064.11	0.130	-2.00	3.50	1064.038				
24						1064.035	3.50	2.00	1064.15	1063.97	0.187	-2.00	3.50	1063.895				
25						1063.892	3.50	2.00	1064.08	1063.82	0.258	-2.00	3.50	1063.752				
26						1063.749	3.50	2.00	1063.94	1063.68	0.262	-2.00	3.50	1063.609				
26+10.00		(i=-.71%) PCV				1063.678	3.50	2.00	1063.85	1063.61	0.238	-2.00	3.50	1063.538				
27						1063.557	3.50	2.00	1063.69	1063.49	0.207	-2.00	3.50	1063.417				
27+10.00		PIV (Y=40.00m)				1063.339	3.50	2.00	1063.43	1063.27	0.158	-2.00	3.50	1063.199				
28						1063.023	3.50	2.00	1063.09	1062.95	0.133	-2.00	3.50	1062.883				
28+10.00		PTV (i=-4.63%)				1062.609	3.50	2.00	1062.70	1062.54	0.158	-2.00	3.50	1062.469				
29						1062.146	3.50	2.00	1062.32	1062.08	0.239	-2.00	3.50	1062.006				
30						1061.219	3.50	2.00	1061.41	1061.15	0.261	-2.00	3.50	1061.079				
30+12.64						1060.634	3.50	2.00	1060.77	1060.56	0.202	-2.00	3.50	1060.494				= EST. 10+0.40 DA VIA VC_B.S.-28
31						1060.293	3.50	2.00	1060.38	1060.22	0.156	-2.00	3.50	1060.153				
31+10.00		(i=-4.63%) PCV				1059.830	3.50	2.00	1059.93	1059.76	0.168	-2.00	3.50	1059.690				
32						1059.422	3.50	2.00	1059.59	1059.35	0.235	-2.00	3.50	1059.282				
32+5.00		PIV (Y=30.00m)				1059.259	3.50	2.00	1059.49	1059.19	0.303	-2.00	3.50	1059.119				
33		PTV (i=-1.33%)				1058.936	3.50	2.00	1059.14	1058.87	0.271	-2.00	3.50	1058.796				
34						1058.671	3.50	2.00	1058.83	1058.60	0.225	-2.00	3.50	1058.531				
35						1058.406	3.50	2.00	1058.49	1058.34	0.151	-2.00	3.50	1058.266				
36						1058.141	3.50	2.00	1058.19	1058.07	0.117	-2.00	3.50	1058.001				
36+15.00		(i=-1.33%) PCV				1057.942	3.50	2.00	1057.93	1057.87	0.060	-2.00	3.50	1057.802				
37						1057.884	3.50	2.00	1057.88	1057.81	0.067	-2.00	3.50	1057.744				= EST. 0+0.00 DA VIA VC_B.S.-30
38						1057.654	3.50	2.00	1057.68	1057.58	0.094	-2.00	3.50	1057.514				
38+5.00		PIV (Y=60.00m)				1057.606	3.50	2.00	1057.57	1057.54	0.035	-2.00	3.50	1057.466				
39						1057.484	3.50	2.00	1057.63	1057.41	0.217	-2.00	3.50	1057.344				
39+15.00		PTV (i=-.50%)				1057.393	3.50	2.00	1057.53	1057.32	0.203	-2.00	3.50	1057.253				
40						1057.368	3.50	2.00	1057.50	1057.30	0.201	-2.00	3.50	1057.228				
40+19.07						1057.272	3.50	2.00	1057.44	1057.20	0.236	-2.00	3.50	1057.132				= EST. 0+0.00 DA VIA VC_B.S.-31
41						1057.267	3.50	2.00	1057.43	1057.20	0.237	-2.00	3.50	1057.127				
42						1057.166	3.50	2.00	1057.31	1057.10	0.212	-2.00	3.50	1057.026				
43						1057.066	3.50	2.00	1057.27	1057.00	0.275	-2.00	3.50	1056.926				
44						1056.965	3.50	2.00	1057.16	1056.89	0.264	-2.00	3.50	1056.825				
45						1056.864	3.50	2.00	1057.10	1056.79	0.304	-2.00	3.50	1056.724				
46						1056.763	3.50	2.00	1056.94	1056.69	0.248	-2.00	3.50	1056.623				
46+13.64						1056.694	3.50	2.00	1056.90	1056.62	0.272	-2.00	3.50	1056.554				= EST. 0+0.00 DA VIA VC_B.S.-32
47						1056.662	3.50	2.00	1056.88	1056.59	0.291	-2.00	3.50	1056.522				
48						1056.562	3.50	2.00	1056.87	1056.49	0.380	-2.00	3.50	1056.422				
49						1056.461	3.50	2.00	1056.75	1056.39	0.358	-2.00	3.50	1056.321				
50						1056.360	3.50	2.00	1056.63	1056.29	0.337	-2.00	3.50	1056.220				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA B.S.-63

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRAÇADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
51						1056.259	3.50	2.00	1056.48	1056.19	0.286	-2.00	3.50	1056.119				
52		(i=-.50%) PCV				1056.158	3.50	2.00	1056.40	1056.09	0.312	-2.00	3.50	1056.018				
52+10.00		PIV (Y=20.00m)				1056.086	3.50	2.00	1056.35	1056.02	0.337	-2.00	3.50	1055.946				
52+14.73						1056.037	3.50	2.00	1056.31	1055.97	0.338	-2.00	3.50	1055.897			= EST. 0+0.00 DA VIA VIA_B.S.-66	
53		PTV (i=-1.37%)				1055.971	3.50	2.00	1056.24	1055.90	0.341	-2.00	3.50	1055.831				
54						1055.697	3.50	2.00	1055.81	1055.63	0.186	-2.00	3.50	1055.557				
55						1055.423	3.50	2.00	1055.48	1055.35	0.131	-2.00	3.50	1055.283				
56						1055.148	3.50	2.00	1055.25	1055.08	0.173	-2.00	3.50	1055.008				
57						1054.874	3.50	2.00	1054.99	1054.80	0.183	-2.00	3.50	1054.734				
57+6.80						1054.781	3.50	2.00	1054.90	1054.71	0.185	-2.00	3.50	1054.641			= EST. 0+0.00 DA VIA VC_B.S.-33	
58						1054.600	3.50	2.00	1054.77	1054.53	0.243	-2.00	3.50	1054.460				
58+10.00		(i=-1.37%) PCV				1054.463	3.50	2.00	1054.66	1054.39	0.262	-2.00	3.50	1054.323				
59						1054.357	3.50	2.00	1054.51	1054.29	0.225	-2.00	3.50	1054.217				
59+5.00		PIV (Y=30.00m)				1054.327	3.50	2.00	1054.45	1054.26	0.190	-2.00	3.50	1054.187				
60		PTV (i=.48%)				1054.329	3.50	2.00	1054.40	1054.26	0.140	-2.00	3.50	1054.189				
61						1054.424	3.50	2.00	1054.45	1054.35	0.096	-2.00	3.50	1054.284				
62						1054.520	3.50	2.00	1054.62	1054.45	0.173	-2.00	3.50	1054.380				
62+5.00		(i=.48%) PCV				1054.544	3.50	2.00	1054.68	1054.47	0.210	-2.00	3.50	1054.404				
63						1054.630	3.50	2.00	1054.79	1054.56	0.233	-2.00	3.50	1054.490				
64						1054.792	3.50	2.00	1054.98	1054.72	0.257	-2.00	3.50	1054.652				
64+5.00		PIV (Y=80.00m)				1054.840	3.50	2.00	1055.08	1054.77	0.305	-2.00	3.50	1054.700				
65						1055.005	3.50	2.00	1055.20	1054.94	0.263	-2.00	3.50	1054.865				
66						1055.272	3.50	2.00	1055.48	1055.20	0.279	-2.00	3.50	1055.132				
66+5.00		PTV (i=1.53%)				1055.347	3.50	2.00	1055.56	1055.28	0.281	-2.00	3.50	1055.207				
66+7.03						1055.378	3.50	2.00	1055.56	1055.31	0.248	-2.00	3.50	1055.238			= EST. 0+0.00 DA VIA VC_B.S.-34	
67						1055.576	3.50	2.00	1055.78	1055.51	0.278	-2.00	3.50	1055.436				
67+16.92	PC					1055.835	3.50	2.00	1056.06	1055.76	0.290	-2.00	3.50	1055.695				
68		(i=1.53%) PCV				1055.882	3.50	2.00	1056.10	1055.81	0.288	-2.00	3.50	1055.742				
68+10.00		PIV (Y=20.00m)				1056.075	3.50	2.00	1056.23	1056.00	0.225	-2.00	3.50	1055.935				
68+19.44	(R=34.05m) PT					1056.330	3.50	2.00	1056.50	1056.26	0.235	-2.00	3.50	1056.190				
69		PTV (i=3.12%)				1056.347	3.50	2.00	1056.50	1056.28	0.224	-2.00	3.50	1056.207				
70						1056.971	3.50	2.00	1057.08	1056.90	0.182	-2.00	3.50	1056.831				
70+8.76						1057.244	3.50	2.00	1057.35	1057.17	0.176	-2.00	3.50	1057.104				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA B.S.-65

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0						1054.345	3.00	-2.00	1065.05	1054.41	10.648	2.00	3.00	1054.465				= EST. 18+18.30 DA VIA_B.S.-63
0+3.58						1064.625	3.00	-2.00	1065.01	1064.69	0.322	2.00	3.00	1064.745				BORDO
1						1063.577	3.00	-2.00	1063.73	1063.64	0.090	2.00	3.00	1063.697				
2						1062.301	3.00	-2.00	1062.59	1062.36	0.227	2.00	3.00	1062.421				
3						1061.025	3.00	-2.00	1061.08	1061.08	-0.008	2.00	3.00	1061.145				
4						1059.748	3.00	-2.00	1060.01	1059.81	0.203	2.00	3.00	1059.868				
5						1058.472	3.00	-2.00	1058.68	1058.53	0.151	2.00	3.00	1058.592				
6						1057.196	3.00	-2.00	1057.45	1057.26	0.194	2.00	3.00	1057.316				
7						1055.919	3.00	-2.00	1056.29	1055.98	0.307	2.00	3.00	1056.039				
8		(i=-6.38%) PCV				1054.643	3.00	-2.00	1054.97	1054.70	0.271	2.00	3.00	1054.763				
8+2.70	PC					1054.493	3.00	-2.00	1054.71	1054.55	0.157	2.00	3.00	1054.613				
8+10.00		PIV (Y=20.00m)				1054.308	3.00	-2.00	1054.45	1054.37	0.082	2.00	3.00	1054.428				
8+14.04	(R=7.00m) PT					1054.345	3.00	-2.00	1054.57	1054.41	0.164	2.00	3.00	1054.465				
9		PTV (i=5.75%)				1054.580	3.00	-2.00	1054.92	1054.64	0.280	2.00	3.00	1054.700				
9+3.91						1054.805	3.00	-2.00	1055.28	1054.87	0.416	2.00	3.00	1054.925				



NOTA DE SERVIÇO DE TERRAPLENAGEM

RA III - TAGUATINGA - DF

SETOR HABITACIONAL ARNIQUEIRA

DATA: Sep-13

ALINHAMENTO:

VIA B.S.-66

ESTACAS	ELEMENTOS		LADO ESQUERDO						EIXO			LADO DIREITO						OBSERVAÇÕES
	DO TRACADO		Bordo 2			Bordo 1			Cota Terreno	Cota Projeto	Cota Verm.	Bordo 1			Bordo 2			
	Horizontal	Vertical	Cota	Afast.	I(%)	Cota	Afast.	I(%)				I(%)	Afast.	Cota	I(%)	Afast.	Cota	
0			CONCORDA COM A VIA BS-63						1056.31			CONCORDA COM A VIA BS-63						
0+3,500		i=8,63%				1055.955	3.00	-2.00	1056.51	1056.02	0.494	2.00	3.00	1056.075				= BORDO DA VIA BS-63
1						1054.531	3.00	-2.00	1055.00	1054.59	0.410	2.00	3.00	1054.651				
2						1052.805	3.00	-2.00	1052.75	1052.87	-0.116	2.00	3.00	1052.925				
3						1051.079	3.00	-2.00	1051.15	1051.14	0.015	2.00	3.00	1051.199				
3+6,072						1050.555	3.00	-2.00	1050.71	1050.62	0.095	2.00	3.00	1050.675				
4						1049.353	3.00	-2.00	1049.51	1049.41	0.101	2.00	3.00	1049.473				
5						1047.627	3.00	-2.00	1048.12	1047.69	0.435	2.00	3.00	1047.747				
6						1045.901	3.00	-2.00	1046.39	1045.96	0.430	2.00	3.00	1046.021				
6+8,643						1045.155	3.00	-2.00	1045.73	1045.22	0.512	2.00	3.00	1045.275				FIM DA VIA