

**ELABORAÇÃO DO PROJETO BÁSICO DO SISTEMA VIÁRIO,
CONTEMPLANDO LEVANTAMENTOS TOPOGRÁFICOS E
CONSULTAS DE INTERFERÊNCIAS, ELABORAÇÃO DE
PROJETOS DE GEOMETRIA, TERRAPLENAGEM,
PAVIMENTAÇÃO, DRENAGEM, OBRAS DE ARTES ESPECIAIS,
PAISAGISMO E SINALIZAÇÃO NO MUNICÍPIO DE APARECIDA DE
GOIÂNIA/GO**

CADERNO DE PROJETOS GEOMÉTRICOS E TERRAPLENAGEM

Eixo 02



REVISÃO 01

Tomo II
Outubro/2017

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1. APRESENTAÇÃO

O presente Caderno Básico Geométrico e de Terraplenagem- TOMO II faz parte do Contrato SEL Nº 701/2017 e foi elaborado a partir do Estudo Preliminar desenvolvido pelo Município de Aparecida/GO e após entendimento foram geradas plantas Planimétricas, Altimétricas, Folhas de Cubação, Notas de Serviços e Relatório de Estaqueamento para avaliar o projeto do sistema viário referente ao Eixo 02 que consiste em vias estruturantes da cidade. O Caderno atende as orientações do Termo de Referência (Anexo I) do edital de Licitação.

O Caderno de Projeto Básico Geométrico foi elaborado com base nos estudos apresentados para o desenvolvimento das etapas necessárias à execução do “Programa de Reestruturação Viária na Bacia do Ribeirão Santo Antônio e Aparecida II – CAF/PMAP” e será a base da realização dos projetos de Sinalização, Pavimentação, Drenagem Pluvial e OAE.

2. CARACTERIZAÇÃO GERAL DO PROGRAMA

2.1. Localização dos Eixos e Atividades Previstas

➤ Divisão dos Eixos:

Para melhor apresentação o Caderno Básico Geométrico foi dividido em **4 Tomos**. **O Tomo I corresponde ao Eixo 01, o Tomo II ao Eixo 02, o Tomo III ao Eixo 03 e o Tomo IV ao Eixo 05**. Cada **Eixo** terá sua própria estrutura, que contará em anexo com: plantas Planimétricas e Altimétricas, Folhas de Cubação, Notas de Serviços, Relatório de Curvas e Relatório de Estaqueamento referente ao seu trecho exclusivamente.

✓ Eixo 01 (~ 8,9 km):

- Rua Crisolito entre a GO-040 até Av.4ª Avenida;
- Av. 4ª Avenida com a Av. Presidente Vargas;
- Av. Presidente Vargas com a Av.Graça Aranha;
- Av.Graça Aranha até Av.Nilo Peçanha;
- Av.Nilo Peçanha até o encontro com a Av.Liberdade – Anel Viário;
- Av.Nilo Peçanha com a Av.Perimetral Radial; e
- Av.Perimetral até a Av.Guiraupia com a Av.Araunã.

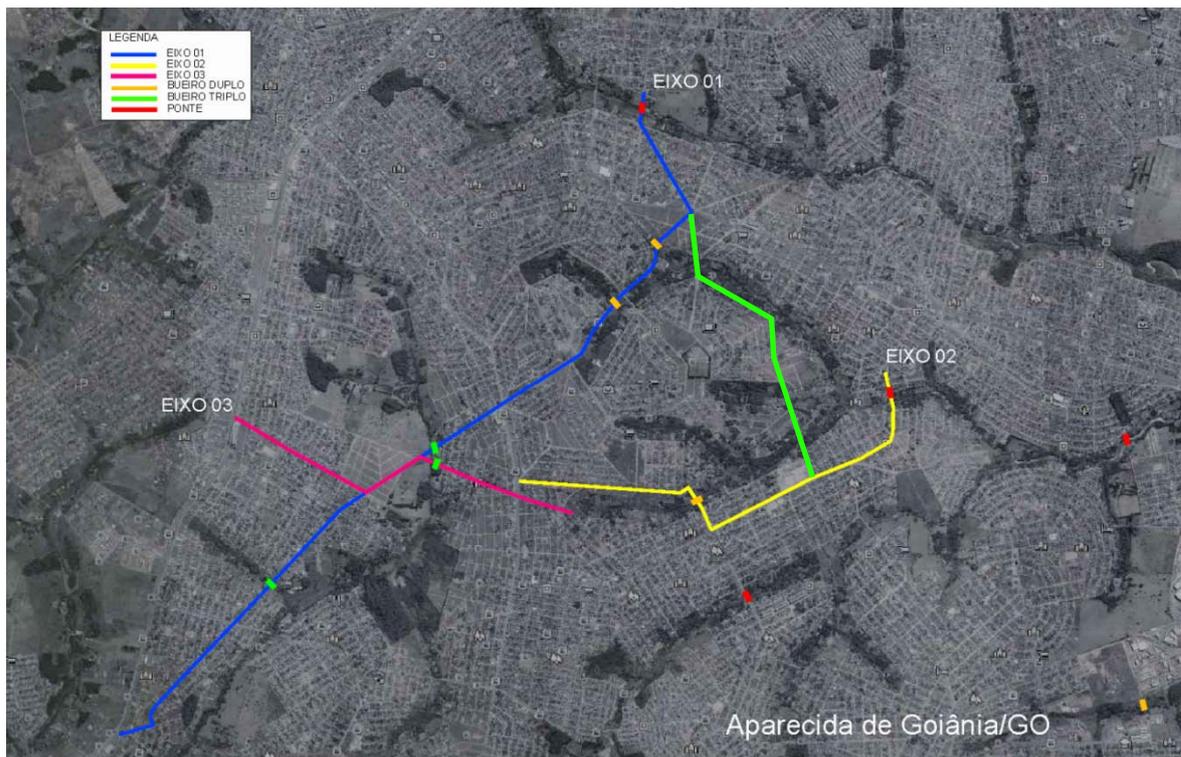
✓ Eixo 02 (~ 4,85 km):

- Av. Uirapuro com a Avenida 12;
- Avenida 12 no encontro da Av. das Nações;
- Av. das Nações com Av.Basil; e
- Ave.Brasil com Av.Beira Mar;

✓ Eixo 03 (~ 3,65 km):

- Av.Delfim Moreira no encontro da Avenida C7;
- Avenida C7 até o encontro com a Av.Presidente Vargas;

- Av. Presidente Vargas com a Av. 1ª Avenida – Av. das Esmeraldas no encontro com a Rodovia GO-040
- ✓ Eixo 05 (~ 3,05): Av. Nossa Sra. De Fátima;
 - Av. Portugal;
 - Av. Prado Junior;



➤ **Atividade Prevista:**

Figura 1 – Localização dos Eixos Viários – Fonte: Google Earth – adaptação para o Memorial Descritivo de Projeto Básico Geométrico – Aparecida de Goiânia/GO

- Projetos Básicos Geométricos e de Terraplenagem

3. DIRETRIZES URBANÍSTICAS

A Diretriz Urbanística do projeto em questão seguiu as orientações do Plano Diretor do Município de Aparecida de Goiânia (dezembro/2016). Este Plano serviu como base para as classificações das vias, definição dos traçados e necessidades do município.

3.1. Proposta de Projeto

Considerando que a região de Projeto é uma área parcialmente antropizada e por conseqüente está ocupada e consolidada, a proposta visa promover a adequação do sistema viário existente. Nesse sentido, prevê-se **Vias Coletoras de Circulação** cujo propósito é coletar e distribuir o trânsito nos núcleos urbanos existentes. É previsto ainda **Vias Urbanas Arteriais**, cujo o propósito é interligar regiões opostas da cidade.

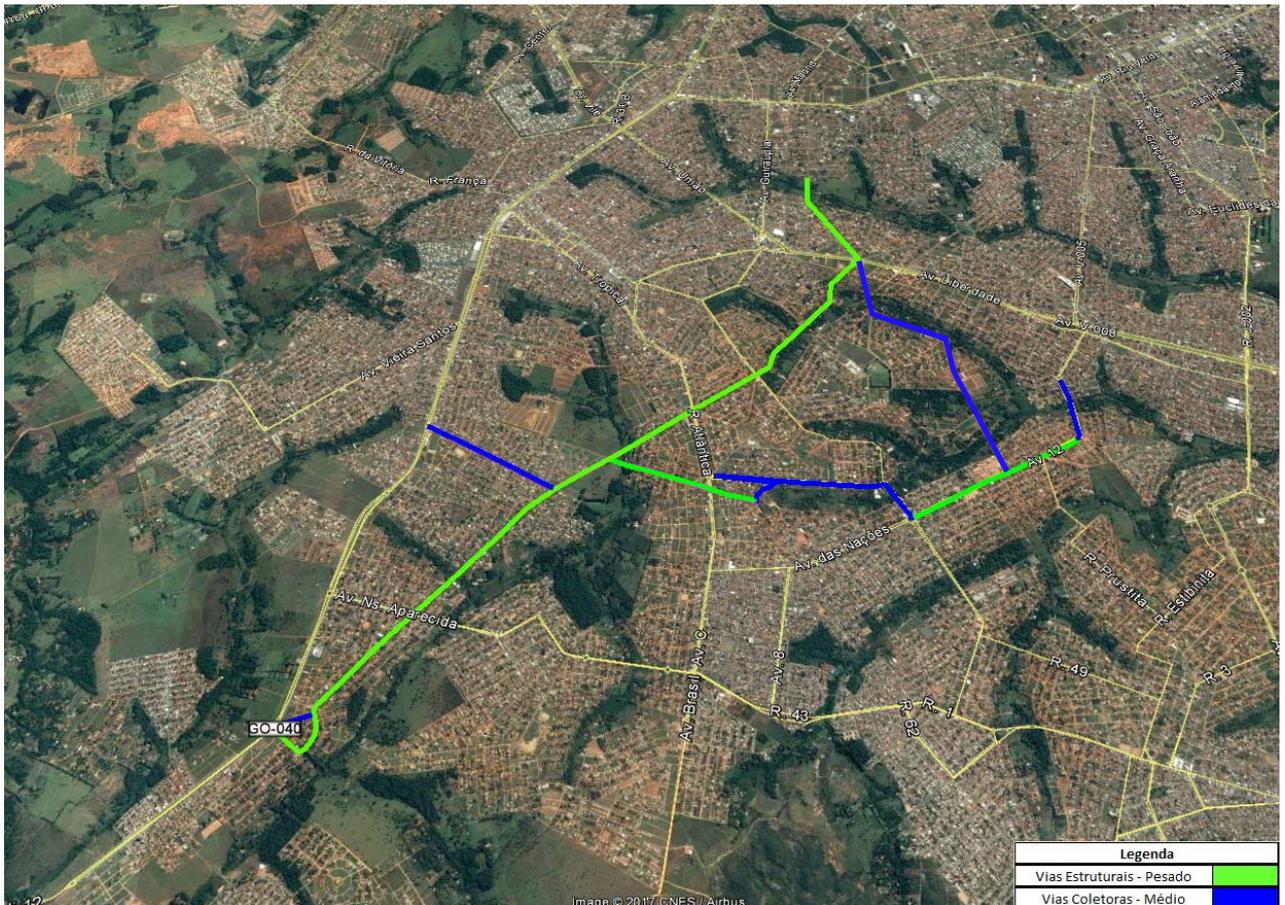


Figura 2 – Hierarquia Viária – Fonte: Google Earth – adaptação para o Memorial Descritivo de Projeto Básico Geométrico – Aparecida de Goiânia/GO

4. APRESENTAÇÃO DOS PRODUTOS

Além do descritivo abordado anteriormente e conforme TR, este caderno apresenta também:

- Notas de Serviços;
- Folhas de Cubação;
- Relatório de Estaqueamento;
- Curvas Horizontais;
- Curvas Verticais;
- Projetos Planimétricos e Altimétricos

4.1. Parâmetros adotados

Toda a elaboração do Projeto de Geometria Planimétrico e Altimétrico foi baseado no Projeto de Estudo Preliminar desenvolvido pelo Município de Aparecida de Goiânia, ou seja, todas as definições de largura de faixa de rolamento, raios de giros, locação dos lotes, definição de rotatórias, dimensionamentos das calçadas, assim como definição das localizações das vias arteriais foram estabelecidas pela contratante.

4.1.1. Terraplenagem

No estudo de terraplenagem são apresentados os mapas de cubação e as notas de serviço.

As notas de serviço foram obtidas a partir da seção transversal de cada trecho seguindo o *greide* projetado apresentado nos perfis longitudinais de cada via, considerando-se as cotas dos pontos referentes ao pavimento acabado.

Como neste projeto será executada além das vias, também as calçadas, então nas notas de serviço também foram apresentadas os pontos relativos as cotas das calçadas projetadas.

O volume de terra movimentado em cada trecho é apresentado nos mapas de cubação de cada via. Para este estudo foi considerado as seções das vias que variam entre 54cm a 61cm de pavimento e 27cm de calçada.

Os volumes decorrentes de cortes deverão compensar os aterros necessários. Para isso o mesmo material de corte será transportado até as regiões que necessitem de aterro. Diminuindo assim o valor agregado desses serviços com movimento de terra.

4.1.2. Geometria

No presente projeto, buscou-se minimizar o movimento de terra, ajustando sempre que possível o *greide* próximo ao terreno natural, de forma que as testadas dos lotes ficassem com cotas próximas as cotas das vias.

Nos *greides* das vias projetadas foi adotado como critério de inclinação máxima longitudinal um valor de 10%.

As velocidades de projeto consideradas foram:

- Eixo 01 – 60 km/h;
- Eixo 02 – 60 km/h;
- Eixo 03 – 60km/

Para a planimetria foi considerado o projeto preliminar fornecido pelo Município, cujos raios das curvas já foram definidos pelo projeto urbanístico.

5. Notas de Serviços – Eixo 02

Nota de Serviço Tabela

AV. BEIRA MAR - LD 0+0.00 - 88+0.189

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET ATERRO			OFFSET CORTE			
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	
-5.012	867.782	100.00	-4.176	866.945	-5.00	-3.000	867.004	-2.00	0+0.00	867.604	867.604	0.00	3.000	867.124	2.00				4.547	867.437	100.00	
-4.938	867.634	100.00	-4.175	866.870	-4.97	-3.000	866.929	-2.00	0+10.00	867.529	867.474	0.055	3.000	867.049	2.00				4.512	867.328	100.00	
-4.991	867.611	100.00	-4.175	866.795	-4.95	-3.000	866.854	-2.00	1+0.00	867.454	867.475	-0.021	3.000	866.974	2.00				4.606	867.349	100.00	
-5.060	867.606	100.00	-4.175	866.720	-4.92	-3.000	866.778	-2.00	1+10.00	867.378	867.462	-0.083	3.000	866.898	2.00				4.660	867.329	100.00	
-5.139	867.610	100.00	-4.174	866.645	-4.89	-3.000	866.703	-2.00	2+0.00	867.303	867.477	-0.174	3.000	866.823	2.00				4.759	867.354	100.00	
-5.235	867.631	100.00	-4.174	866.570	-4.87	-3.000	866.628	-2.00	2+10.00	867.228	867.493	-0.265	3.000	866.748	2.00				4.844	867.366	100.00	
-5.122	867.445	100.00	-4.173	866.495	-4.84	-3.000	866.552	-2.00	3+0.00	867.152	867.337	-0.184	3.000	866.672	2.00				4.780	867.227	100.00	
-4.909	867.156	100.00	-4.173	866.420	-4.81	-3.000	866.477	-2.00	3+10.00	867.077	866.998	0.079	3.000	866.597	2.00				4.647	867.021	100.00	
-4.871	867.031	100.00	-4.173	866.333	-4.79	-3.000	866.389	-2.00	4+0.00	866.989	866.980	0.009	3.000	866.509	2.00				4.694	866.982	100.00	
-4.903	866.951	100.00	-4.172	866.220	-4.76	-3.000	866.276	-2.00	4+10.00	866.876	866.762	0.114	3.000	866.396	2.00				4.416	866.592	100.00	
-5.008	866.918	100.00	-4.172	866.082	-4.73	-3.000	866.138	-2.00	5+0.00	866.738	866.729	0.009	3.000	866.258	2.00				4.537	866.576	100.00	
-4.902	866.649	100.00	-4.172	865.919	-4.71	-3.000	865.974	-2.00	5+10.00	866.574	866.563	0.011	3.000	866.094	2.00				4.586	866.464	100.00	
-4.744	866.303	100.00	-4.171	865.730	-4.68	-3.000	865.785	-2.00	6+0.00	866.385	866.208	0.178	3.000	865.905	2.00				4.431	866.122	100.00	
-4.674	866.020	100.00	-4.171	865.517	-4.65	-3.000	865.571	-2.00	6+10.00	866.171	865.992	0.179	3.000	865.691	2.00				4.522	866.000	100.00	
-4.848	865.955	100.00	-4.170	865.278	-4.63	-3.000	865.332	-2.00	7+0.00	865.932	865.936	-0.004	3.000	865.452	2.00				4.695	865.936	100.00	
-4.782	865.626	100.00	-4.170	865.014	-4.60	-3.000	865.068	-2.00	7+10.00	865.668	865.537	0.131	3.000	865.188	2.00				4.540	865.518	100.00	
-4.955	865.510	100.00	-4.170	864.725	-4.57	-3.000	864.778	-2.00	8+0.00	865.378	865.335	0.043	3.000	864.898	2.00				4.486	865.176	100.00	
-4.953	865.194	100.00	-4.169	864.410	-4.55	-3.000	864.463	-2.00	8+10.00	865.063	865.021	0.042	3.000	864.583	2.00				4.625	865.002	100.00	
-5.074	864.988	100.00	-4.169	864.083	-4.52	-3.000	864.136	-2.00	9+0.00	864.736	864.871	-0.135	3.000	864.256	2.00				4.755	864.806	100.00	
-5.019	864.607	100.00	-4.169	863.756	-4.49	-3.000	863.809	-2.00	9+10.00	864.409	864.499	-0.090	3.000	863.929	2.00				4.706	864.432	100.00	
-5.019	864.280	100.00	-4.168	863.429	-4.47	-3.000	863.481	-2.00	10+0.00	864.081	864.125	-0.043	3.000	863.601	2.00				4.670	864.069	100.00	
-5.072	864.006	100.00	-4.168	863.102	-4.44	-3.000	863.154	-2.00	10+10.00	863.754	863.966	-0.212	3.000	863.274	2.00				4.856	863.930	100.00	
-5.216	863.824	100.00	-4.167	862.775	-4.41	-3.000	862.827	-2.00	11+0.00	863.427	863.610	-0.183	3.000	862.947	2.00				4.737	863.485	100.00	
-5.086	863.367	100.00	-4.167	862.448	-4.39	-3.000	862.499	-2.00	11+10.00	863.099	863.164	-0.065	3.000	862.619	2.00				4.639	863.061	100.00	
-5.106	863.060	100.00	-4.167	862.121	-4.36	-3.000	862.172	-2.00	12+0.00	862.772	862.957	-0.185	3.000	862.292	2.00				4.788	862.885	100.00	
-5.316	862.944	100.00	-4.166	861.794	-4.33	-3.000	861.844	-2.00	12+10.00	862.444	862.675	-0.230	3.000	861.964	2.00				4.732	862.503	100.00	
-5.173	862.474	100.00	-4.166	861.467	-4.31	-3.000	861.517	-2.00	13+0.00	862.117	862.301	-0.184	3.000	861.637	2.00				4.732	862.176	100.00	
-5.036	862.010	100.00	-4.166	861.140	-4.28	-3.000	861.190	-2.00	13+10.00	861.790	861.962	-0.172	3.000	861.310	2.00				4.866	861.986	100.00	
-5.172	861.820	100.00	-4.165	860.813	-4.25	-3.000	860.862	-2.00	14+0.00	861.462	861.683	-0.221	3.000	860.982	2.00				4.824	861.618	100.00	
-4.994	861.315	100.00	-4.165	860.486	-4.23	-3.000	860.535	-2.00	14+10.00	861.135	861.186	-0.051	3.000	860.655	2.00				4.694	861.161	100.00	
-4.983	860.972	100.00	-4.164	860.154	-4.20	-3.000	860.202	-2.00	15+0.00	860.802	860.900	-0.097	3.000	860.322	2.00				4.772	860.908	100.00	
-4.891	860.538	100.00	-4.164	859.811	-4.17	-3.000	859.859	-2.00	15+10.00	860.459	860.380	0.080	3.000	859.979	2.00				4.547	860.343	100.00	
-4.878	860.172	100.00	-4.164	859.458	-4.15	-3.000	859.506	-2.00	16+0.00	860.106	860.013	0.093	3.000	859.626	2.00				4.471	859.914	100.00	
-5.002	859.933	100.00	-4.163	859.094	-4.12	-3.000	859.142	-2.00	16+10.00	859.742	859.804	-0.062	3.000	859.262	2.00				4.569	859.650	100.00	
-4.809	859.367	100.00	-4.163	858.720	-4.09	-3.000	858.768	-2.00	17+0.00	859.368	859.244	0.123	3.000	858.888	2.00				4.579	859.287	100.00	
-4.841	859.014	100.00	-4.163	858.336	-4.07	-3.000	858.383	-2.00	17+10.00	858.983	858.965	0.018	3.000	858.503	2.00				4.640	858.965	100.00	
-5.120	858.899	100.00	-4.162	857.941	-4.04	-3.000	857.988	-2.00	18+0.00	858.588	858.617	-0.029	3.000	858.108	2.00				4.520	858.451	100.00	
-4.900	858.273	100.00	-4.162	857.535	-4.01	-3.000	857.582	-2.00	18+10.00	858.182	858.094	0.088	3.000	857.702	2.00				4.475	858.002	100.00	
-4.805	857.763	100.00	-4.162	857.120	-3.99	-3.000	857.166	-2.00	19+0.00	857.766	857.744	0.022	3.000	857.286	2.00				4.673	857.785	100.00	
-4.769	857.301	100.00	-4.161	856.694	-3.96	-3.000	856.740	-2.00	19+10.00	857.340	857.207	0.132	3.000	856.860	2.00				4.484	857.172	100.00	
-4.896	856.997	100.00	-4.161	856.262	-3.93	-3.000	856.308	-2.00	20+0.00	856.908	856.882	0.026	3.000	856.428	2.00				4.567	856.825	100.00	
-4.951	856.621	100.00	-4.160	855.831	-3.91	-3.000	855.876	-2.00	20+10.00	856.476	856.357	0.119	3.000	855.996	2.00				4.475	856.302	100.00	
-4.791	856.030	100.00	-4.160	855.399	-3.88	-3.000	855.444	-2.00	21+0.00	856.044	855.971	0.074	3.000	855.564	2.00				4.573	855.970	100.00	
-4.923	855.731	100.00	-4.160	854.968	-3.85	-3.000	855.013	-2.00	21+10.00	855.613	855.503	0.110	3.000	855.133	2.00				4.456	855.423	100.00	
-4.667	855.044	100.00	-4.159	854.536	-3.83	-3.000	854.581	-2.00	22+0.00	855.181	854.985	0.196	3.000	854.701	2.00				4.463	855.000	100.00	
-4.825	854.771	100.00	-4.159	854.105	-3.80	-3.000	854.149	-2.00	22+10.00	854.749	854.579	0.170	3.000	854.269	2.00				4.423	854.529	100.00	
-4.680	854.195	100.00	-4.159	853.674	-3.77	-3.000	853.717	-2.00	23+0.00	854.317	853.998	0.319	3.000	853.837	2.00				4.321	853.998	100.00	
-4.926	854.010	100.00	-4.158	853.242	-3.75	-3.000	853.286	-2.00	23+10.00	853.886	853.806	0.079	3.000	853.406	2.00				4.453	853.699	100.00	
-4.993	853.646	100.00	-4.158	852.811	-3.72	-3.000	852.854	-2.00	24+0.00	853.454	853.342	0.112	3.000	852.974	2.00				4.360	853.175	100.00	
-4.841	853.062	100.00	-4.157	852.379	-3.69	-3.000	852.422	-2.00	24+10.00	853.022	852.954	0.068	3.000	852.542	2.00				4.501	852.886	100.00	
-5.032	852.823	100.00	-4.157	851.948	-3.67	-3.000	851.990	-2.00	25+0.00	852.590	852.481	0.110	3.000	852.110	2.00				4.275	852.231	100.00	
-4.794	852.153	100.00	-4.157	851.517	-3.64	-3.000	851.559	-2.00	25+10.00	852.159	851.984	0.175	3.000	851.679	2.00				4.452	851.978	100.00	
-5.087	852.011	100.00	-4.156	851.080	-3.61	-3.000	851.122	-2.00	26+0.00	851.722	851.805	-0.083	3.000									

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET ATERRO			OFFSET CORTE			
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	
-5.067	846.023	100.00	-4.152	845.107	-3.29	-3.000	845.145	-2.00	32+0.00	845.745	845.846	-0.100	3.000	845.265	2.00				4.502	845.633	100.00	
-5.085	845.509	100.00	-4.152	844.576	-3.27	-3.000	844.613	-2.00	32+10.00	845.213	845.411	-0.198	3.000	844.733	2.00				4.691	845.292	100.00	
-5.094	844.987	100.00	-4.151	844.044	-3.24	-3.000	844.082	-2.00	33+0.00	844.682	844.989	-0.307	3.000	844.202	2.00				4.933	845.004	100.00	
-5.017	844.379	100.00	-4.151	843.513	-3.21	-3.000	843.550	-2.00	33+10.00	844.150	844.219	-0.069	3.000	843.670	2.00				4.506	844.046	100.00	
-5.137	843.968	100.00	-4.151	842.981	-3.19	-3.000	843.018	-2.00	34+0.00	843.618	843.952	-0.335	3.000	843.138	2.00				4.644	843.653	100.00	
-5.117	843.416	100.00	-4.150	842.450	-3.16	-3.000	842.486	-2.00	34+10.00	843.086	843.273	-0.187	3.000	842.606	2.00				4.625	843.104	100.00	
-5.203	842.984	100.00	-4.150	841.931	-3.13	-3.000	841.967	-2.00	35+0.00	842.567	842.596	-0.029	3.000	842.087	2.00				4.250	842.212	100.00	
-5.091	842.379	100.00	-4.150	841.438	-3.11	-3.000	841.473	-2.00	35+10.00	842.073	842.188	-0.115	3.000	841.593	2.00	4.125	841.581	-66.67				
-4.875	841.695	100.00	-4.149	840.970	-3.08	-3.000	841.005	-2.00	36+0.00	841.605	841.544	0.061	3.000	841.125	2.00	4.181	841.076	-66.67				
-4.875	841.254	100.00	-4.149	840.528	-3.05	-3.000	840.563	-2.00	36+10.00	841.163	840.903	0.260	3.000	840.683	2.00	4.790	840.228	-66.67				
-5.024	840.986	100.00	-4.149	840.111	-3.03	-3.000	840.146	-2.00	37+0.00	840.746	840.986	-0.240	3.000	840.266	2.00				4.310	840.457	100.00	
-4.846	840.418	100.00	-4.148	839.720	-3.00	-3.000	839.755	-2.00	37+10.00	840.355	840.299	0.055	3.000	839.875	2.00	4.226	839.796	-66.67				
-4.927	840.134	100.00	-4.148	839.355	-2.97	-3.000	839.389	-2.00	38+0.00	839.989	839.861	0.128	3.000	839.509	2.00				4.116	839.508	100.00	
-5.092	839.959	100.00	-4.147	839.014	-2.95	-3.000	839.048	-2.00	38+10.00	839.648	839.559	0.089	3.000	839.168	2.00				4.129	839.183	100.00	
-4.988	839.541	100.00	-4.147	838.700	-2.92	-3.000	838.733	-2.00	39+0.00	839.333	839.288	0.045	3.000	838.853	2.00				4.339	839.080	100.00	
-5.204	839.468	100.00	-4.147	838.411	-2.89	-3.000	838.444	-2.00	39+10.00	839.044	839.227	-0.183	3.000	838.564	2.00				4.557	839.009	100.00	
-5.120	839.109	100.00	-4.146	838.135	-2.87	-3.000	838.168	-2.00	40+0.00	838.768	839.016	-0.249	3.000	838.288	2.00				4.576	838.753	100.00	
-5.296	839.008	100.00	-4.146	837.859	-2.84	-3.000	837.891	-2.00	40+10.00	838.491	839.001	-0.510	3.000	838.011	2.00				4.671	838.573	100.00	
-5.436	838.873	100.00	-4.146	837.582	-2.81	-3.000	837.615	-2.00	41+0.00	838.215	838.684	-0.469	3.000	837.735	2.00				4.654	838.281	100.00	
-5.237	838.398	100.00	-4.145	837.306	-2.79	-3.000	837.338	-2.00	41+10.00	837.938	838.229	-0.291	3.000	837.458	2.00				4.662	838.014	100.00	
-5.151	838.036	100.00	-4.145	837.030	-2.76	-3.000	837.062	-2.00	42+0.00	837.662	838.016	-0.354	3.000	837.182	2.00				4.710	837.787	100.00	
-5.378	837.987	100.00	-4.145	836.754	-2.73	-3.000	836.785	-2.00	42+10.00	837.385	837.822	-0.437	3.000	836.905	2.00				4.721	837.523	100.00	
-5.170	837.503	100.00	-4.144	836.478	-2.71	-3.000	836.509	-2.00	43+0.00	837.109	837.383	-0.274	3.000	836.629	2.00				4.558	837.085	100.00	
-5.015	837.073	100.00	-4.144	836.201	-2.68	-3.000	836.232	-2.00	43+10.00	836.832	836.998	-0.166	3.000	836.352	2.00				4.588	836.840	100.00	
-4.941	836.723	100.00	-4.144	835.925	-2.65	-3.000	835.956	-2.00	44+0.00	836.556	836.610	-0.054	3.000	836.076	2.00				4.435	836.411	100.00	
-4.908	836.414	100.00	-4.143	835.649	-2.63	-3.000	835.679	-2.00	44+10.00	836.279	836.187	0.092	3.000	835.799	2.00				4.305	836.007	100.00	
-4.812	836.042	100.00	-4.143	835.373	-2.60	-3.000	835.402	-2.00	45+0.00	836.002	836.004	-0.001	3.000	835.522	2.00				4.417	835.843	100.00	
-5.006	835.960	100.00	-4.143	835.096	-2.57	-3.000	835.126	-2.00	45+10.00	835.726	835.808	-0.082	3.000	835.246	2.00				4.549	835.700	100.00	
-4.777	835.455	100.00	-4.142	834.820	-2.55	-3.000	834.849	-2.00	46+0.00	835.449	835.363	0.086	3.000	834.969	2.00				4.374	835.250	100.00	
-4.619	835.021	100.00	-4.142	834.544	-2.52	-3.000	834.573	-2.00	46+10.00	835.173	835.031	0.142	3.000	834.693	2.00				4.412	835.012	100.00	
-4.880	835.007	100.00	-4.141	834.268	-2.49	-3.000	834.296	-2.00	47+0.00	834.896	834.945	-0.049	3.000	834.416	2.00				4.408	834.734	100.00	
-4.998	834.848	100.00	-4.141	833.991	-2.47	-3.000	834.019	-2.00	47+10.00	834.619	834.694	-0.075	3.000	834.139	2.00				4.411	834.461	100.00	
-4.935	834.510	100.00	-4.141	833.715	-2.44	-3.000	833.743	-2.00	48+0.00	834.343	834.339	0.004	3.000	833.863	2.00				4.427	834.202	100.00	
-4.736	834.035	100.00	-4.140	833.439	-2.41	-3.000	833.466	-2.00	48+10.00	834.066	834.023	0.043	3.000	833.586	2.00				4.419	833.919	100.00	
-4.967	833.989	100.00	-4.140	833.162	-2.39	-3.000	833.190	-2.00	49+0.00	833.790	833.903	-0.114	3.000	833.310	2.00				4.463	833.688	100.00	
-4.886	833.632	100.00	-4.140	832.886	-2.36	-3.000	832.913	-2.00	49+10.00	833.513	833.447	0.066	3.000	833.033	2.00				4.339	833.288	100.00	
-4.969	833.439	100.00	-4.139	832.610	-2.33	-3.000	832.636	-2.00	50+0.00	833.236	833.243	-0.006	3.000	832.756	2.00				4.384	833.059	100.00	
-4.828	833.022	100.00	-4.139	832.333	-2.31	-3.000	832.360	-2.00	50+10.00	832.960	833.019	-0.059	3.000	832.480	2.00				4.604	833.003	100.00	
-5.074	832.992	100.00	-4.139	832.057	-2.28	-3.000	832.083	-2.00	51+0.00	832.683	832.959	-0.276	3.000	832.203	2.00				4.547	832.671	100.00	
-4.926	832.568	100.00	-4.138	831.781	-2.25	-3.000	831.806	-2.00	51+10.00	832.406	832.405	0.001	3.000	831.926	2.00				4.423	832.271	100.00	
-5.059	832.425	100.00	-4.138	831.504	-2.23	-3.000	831.530	-2.00	52+0.00	832.130	832.211	-0.082	3.000	831.650	2.00				4.463	832.036	100.00	
-4.966	832.057	100.00	-4.138	831.228	-2.20	-3.000	831.253	-2.00	52+10.00	831.853	832.013	-0.160	3.000	831.373	2.00				4.474	831.772	100.00	
-5.190	832.004	100.00	-4.137	830.952	-2.17	-3.000	830.976	-2.00	53+0.00	831.576	831.756	-0.179	3.000	831.096	2.00				4.416	831.439	100.00	
-4.923	831.461	100.00	-4.137	830.675	-2.15	-3.000	830.700	-2.00	53+10.00	831.300	831.368	-0.068	3.000	830.820	2.00				4.383	831.131	100.00	
-5.012	831.274	100.00	-4.137	830.399	-2.12	-3.000	830.423	-2.00	54+0.00	831.023	831.004	0.019	3.000	830.543	2.00				4.515	830.987	100.00	
-5.017	831.008	100.00	-4.136	830.127	-2.09	-3.000	830.151	-2.00	54+10.00	830.751	831.015	-0.264	3.000	830.271	2.00				4.806	831.007	100.00	
-5.108	830.836	100.00	-4.136	829.864	-2.07	-3.000	829.887	-2.00	55+0.00	830.487	830.704	-0.216	3.000	830.007	2.00				4.840	830.780	100.00	
-4.972	830.446	100.00	-4.136	829.610	-2.04	-3.000	829.633	-2.00	55+10.00	830.233	830.289	-0.056	3.000	829.753	2.00				4.530	830.216	100.00	
-5.112	830.340	100.00	-4.135	829.364	-2.01	-3.000	829.387	-2.00	56+0.00	829.987	830.098	-0.111	3.000	829.507	2.00				4.543	829.984	100.00	
-5.087	830.001	100.00	-4.154	829.068	-3.41	-3.000	829.107	-3.41	56+10.00	829.749	829.769	-0.019	3.000	829.312	3.41				4.282	829.559	100.00	
-5.051	829.767	100.00	-4.146	828.863	-2.85	-3.000	828.895	-2.85	57+0.00	829.521	829.605	-0.084	3.000	829.067	2.85				4.427	829.447	100.00	
-5.041	829.612	100.00	-4.129	828.699	-1.50	-3.000	828.716	-1.50	57+10.00	829.301	829.396	-0.095	3.000	828.806	1.50				4.483	829.213	100.00	
-5.067	829.524	100.00	-4.106	828.563	0.32	-3.000	828.560	0.32	58+0.00	829.090	829.279	-0.189	3.000	828.541	-0.32				4.632	829.056	100.00	
-4.649	828.999	100.00	-4.085	828.435	2.14	-3.000																

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET ATERRO			OFFSET CORTE			
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. (%)	
-4.847	826.030	100.00	-4.161	825.344	-3.93	-3.000	825.389	-3.93	66+0.00	826.047	825.947	0.101	3.000	825.625	3.93	4.163	825.602	-66.67				
-5.020	826.018	100.00	-4.160	825.157	-3.87	-3.000	825.202	-3.87	66+10.00	825.858	825.798	0.060	3.000	825.434	3.87				4.075	825.485	100.00	
-5.196	826.008	100.00	-4.159	824.971	-3.80	-3.000	825.015	-3.80	67+0.00	825.669	825.729	-0.060	3.000	825.243	3.80				4.169	825.386	100.00	
-5.181	825.807	100.00	-4.158	824.785	-3.74	-3.000	824.828	-3.74	67+10.00	825.480	824.439	0.041	3.000	825.052	3.74				4.121	825.146	100.00	
-4.917	825.358	100.00	-4.157	824.598	-3.68	-3.000	824.641	-3.68	68+0.00	825.291	825.123	0.168	3.000	824.861	3.68				4.108	824.941	100.00	
-4.888	825.143	100.00	-4.156	824.412	-3.61	-3.000	824.454	-3.61	68+10.00	825.102	825.026	0.075	3.000	824.670	3.61				4.116	824.757	100.00	
-4.973	825.043	100.00	-4.156	824.225	-3.55	-3.000	824.266	-3.55	69+0.00	824.913	824.785	0.127	3.000	824.479	3.55				4.091	824.539	100.00	
-4.912	824.797	100.00	-4.155	824.039	-3.48	-3.000	824.079	-3.48	69+10.00	824.724	824.550	0.174	3.000	824.288	3.48	4.500	824.038	-66.67				
-4.750	824.449	100.00	-4.154	823.853	-3.42	-3.000	823.892	-3.42	70+0.00	824.535	824.271	0.264	3.000	824.097	3.42	4.095	824.118	-66.67				
-4.770	824.283	100.00	-4.153	823.666	-3.35	-3.000	823.705	-3.35	70+10.00	824.346	824.097	0.249	3.000	823.906	3.35				4.144	824.015	100.00	
-4.724	824.042	100.00	-4.152	823.471	-3.29	-3.000	823.509	-3.29	71+0.00	824.147	824.032	0.115	3.000	823.706	3.29				4.258	823.927	100.00	
-4.885	823.991	100.00	-4.151	823.257	-3.22	-3.000	823.294	-3.22	71+10.00	823.931	823.858	0.073	3.000	823.487	3.22				4.191	823.640	100.00	
-4.698	823.572	100.00	-4.150	823.025	-3.16	-3.000	823.061	-3.16	72+0.00	823.696	823.429	0.266	3.000	823.250	3.16							
-4.782	823.406	100.00	-4.149	822.774	-3.09	-3.000	822.810	-3.09	72+10.00	823.442	823.204	0.239	3.000	822.995	3.09				4.080	823.034	100.00	
-4.835	823.191	100.00	-4.149	822.505	-3.03	-3.000	822.540	-3.03	73+0.00	823.171	823.019	0.152	3.000	822.722	3.03				4.170	822.849	100.00	
-4.939	823.009	100.00	-4.148	822.218	-2.96	-3.000	822.252	-2.96	73+10.00	822.881	822.922	-0.041	3.000	822.430	2.96				4.234	822.620	100.00	
-4.985	822.751	100.00	-4.147	821.912	-2.90	-3.000	821.945	-2.90	74+0.00	822.572	822.583	-0.010	3.000	822.119	2.90				4.269	822.343	100.00	
-4.911	822.353	100.00	-4.146	821.588	-2.84	-3.000	821.621	-2.84	74+10.00	822.246	822.211	0.035	3.000	821.791	2.84				4.295	822.039	100.00	
-4.919	822.020	100.00	-4.145	821.246	-2.77	-3.000	821.277	-2.77	75+0.00	821.901	821.868	0.032	3.000	821.444	2.77				4.162	821.558	100.00	
-5.004	821.744	100.00	-4.144	820.885	-2.71	-3.000	820.916	-2.71	75+10.00	821.537	821.386	0.151	3.000	821.078	2.71	4.201	821.026	-66.67				
-4.876	821.247	100.00	-4.143	820.515	-2.64	-3.000	820.545	-2.64	76+0.00	821.165	821.010	0.154	3.000	820.704	2.64				4.191	820.845	100.00	
-4.988	820.991	100.00	-4.143	820.145	-2.58	-3.000	820.175	-2.58	76+10.00	820.792	820.990	-0.198	3.000	820.329	2.58				4.704	820.981	100.00	
-5.341	820.975	100.00	-4.142	819.775	-2.51	-3.000	819.804	-2.51	77+0.00	820.419	820.959	-0.540	3.000	819.955	2.51				4.985	820.887	100.00	
-5.195	820.460	100.00	-4.141	819.406	-2.45	-3.000	819.433	-2.45	77+10.00	820.047	820.304	-0.257	3.000	819.580	2.45				4.498	820.023	100.00	
-5.089	819.985	100.00	-4.140	819.036	-2.38	-3.000	819.063	-2.38	78+0.00	819.674	819.984	-0.309	3.000	819.206	2.38				4.696	819.846	100.00	
-4.898	819.425	100.00	-4.139	818.666	-2.32	-3.000	818.692	-2.32	78+10.00	819.302	819.337	-0.036	3.000	818.831	2.32				4.481	819.254	100.00	
-4.833	818.991	100.00	-4.138	818.296	-2.25	-3.000	818.322	-2.25	79+0.00	818.929	819.003	-0.074	3.000	818.457	2.25				4.601	818.999	100.00	
-4.943	818.732	100.00	-4.138	817.926	-2.19	-3.000	817.951	-2.19	79+10.00	818.557	818.578	-0.021	3.000	818.082	2.19				4.491	818.513	100.00	
-4.662	818.082	100.00	-4.137	817.556	-2.12	-3.000	817.580	-2.12	80+0.00	818.184	818.061	0.123	3.000	817.708	2.12				4.372	818.017	100.00	
-4.952	818.013	100.00	-4.136	817.196	-2.06	-3.000	817.220	-2.06	80+10.00	817.821	818.010	-0.189	3.000	817.343	2.06				4.471	817.751	100.00	
-5.205	817.909	100.00	-4.139	816.843	-2.31	-3.000	816.870	-2.31	81+0.00	817.479	817.803	-0.325	3.000	817.008	2.31				4.570	817.520	100.00	
-4.936	817.225	100.00	-4.162	816.450	-4.00	-3.000	816.496	-4.00	81+10.00	817.156	816.852	0.305	3.000	816.736	4.00	4.214	816.679	-66.67				
-4.918	817.011	100.00	-4.137	816.230	-2.12	-3.000	816.254	-2.00	82+0.00	816.854	816.689	0.164	3.000	816.374	2.00	4.128	816.367	-66.67				
-5.013	816.818	100.00	-4.140	815.945	-2.36	-3.000	815.971	-2.00	82+10.00	816.571	816.593	-0.022	3.000	816.091	2.00				4.329	816.337	100.00	
-5.037	816.574	100.00	-4.143	815.679	-2.60	-3.000	815.709	-2.00	83+0.00	816.309	816.401	-0.092	3.000	815.829	2.00				4.412	816.145	100.00	
-5.135	816.423	100.00	-4.146	815.434	-2.84	-3.000	815.467	-2.00	83+10.00	816.067	816.209	-0.143	3.000	815.587	2.00				4.552	816.029	100.00	
-5.258	816.318	100.00	-4.149	815.209	-3.08	-3.000	815.244	-2.00	84+0.00	815.844	816.081	-0.236	3.000	815.364	2.00				4.416	815.658	100.00	
-5.163	816.014	100.00	-4.152	815.004	-3.32	-3.000	815.042	-2.00	84+10.00	815.642	815.977	-0.335	3.000	815.162	2.00				4.595	815.622	100.00	
-5.049	815.712	100.00	-4.156	814.819	-3.56	-3.000	814.860	-2.00	85+0.00	815.460	815.573	-0.113	3.000	814.980	2.00				4.466	815.297	100.00	
-4.709	815.194	100.00	-4.159	814.643	-3.80	-3.000	814.687	-2.00	85+10.00	815.287	815.055	0.232	3.000	814.807	2.00							
-4.584	814.890	100.00	-4.162	814.468	-4.04	-3.000	814.515	-2.00	86+0.00	815.115	814.545	0.570	3.000	814.635	2.00	4.672	814.252	-66.67				
-4.897	815.025	100.00	-4.166	814.293	-4.28	-3.000	814.343	-2.00	86+10.00	814.943	815.003	-0.060	3.000	814.463	2.00				4.534	814.807	100.00	
-5.031	814.980	100.00	-4.169	814.118	-4.52	-3.000	814.171	-2.00	87+0.00	814.771	815.004	-0.234	3.000	814.291	2.00				4.689	814.775	100.00	
-5.170	814.941	100.00	-4.172	813.943	-4.76	-3.000	813.998	-2.00	87+10.00	814.598	814.773	-0.175	3.000	814.118	2.00				4.659	814.558	100.00	
-5.108	814.700	100.00	-4.176	813.767	-5.00	-3.000	813.826	-2.00	88+0.00	814.426	814.424	0.002	3.000	813.946	2.00				4.482	814.194	100.00	
-5.110	814.699	100.00	-4.176	813.764	-5.00	-3.000	813.823	-2.00	88+0.189	814.423	814.423	0.00	3.000	813.943	2.00				4.481	814.189	100.00	

AV. BEIRA MAR - LE 0+0.00 87+2.626

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			
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. (%)	
-4.917	867.917	100.00	-4.135	867.135	-2.00	-3.000	867.157	-2.00	0+0.00	867.757	867.757	0.00	3.000	867.277	2.00	4.086	867.299	2.00	4.403	867.616	100.00	
-5.006	867.889	100.00	-4.135	867.018	-2.00	-3.000	867.041	-2.00	0+10.00	867.641	867.750	-0.109	3.000	867.161	2.00	4.086	867.183	2.00	4.526	867.622	100.00	
-5.127	867.893	100.00	-4.135	866.901	-2.00	-3.000	866.924	-2.00	1+0.00	867.524	867.748	-0.223	3.000	867.044	2.00	4.086	867.066	2.00	4.635	867.614	100.00	
-5.235	867.885	100.00	-4.135	866.785	-2.00	-3.000	866.807	-2.00	1+10.00	867.407	867.749	-0.342	3.000	866.927	2.00	4.086	866.949	2.00	4.763	867.626	100.00	
-5.341	867.874	100.00	-4.135	866.668	-2.00	-3.000	866.691	-2.00	2+0.00	867.291	867.741	-0.450	3.000	866.811	2.00	4.086	866.833	2.00	4.868	867.615	100.00	
-5.249	867.666	100.00	-4.135	866.551	-2.00	-3.000	866.574	-2.00	2+10.00	867.174	867.440	-0.265	3.000	866.694	2.00	4.086	866.716	2.00	4.680	867.310	100.00	
-5.318	867.618	100.00	-4.135	866.435	-2.00	-3.000	866.458	-2.00	3+0.00	867.058	867.360	-0.303	3.000	866.578	2.00	4.086	866.599	2.00	4.609	867.122	100.00	
-5.358	867.541	100.00	-4.135	866.318	-2.00	-3.000	866.341	-2.00	3+10.00	866.941	867.247	-0.306	3.000	866.461	2.00	4.086	866.483	2.00	4.604	867.000	100.00	
-5.089	867.144	100.00	-4.135	866.191	-2.00	-3.000	866.213	-2.00	4+0.00	866.813	867.007	-0.193	3.000	866.333	2.00	4.086	866.355	2.00	4.663	866.932	100.00	
-5.064	866.970	100.00	-4.135	866.041	-2.00	-3.000	866.064	-2.00	4+10.00	866.664	866.979	-0.316	3.000	866.184	2.00	4.086	866.205	2.00	4.765	866.884	100.00	
-5.091	866.825	100.00	-4.135	865.869	-2.00	-3.000	865.892	-2.00	5+0.00	866.492	866.644	-0.152	3.000	866.012	2.00	4.086	866.034	2.00	4.577	866.524	100.00	
-5.114	866.654	100.00	-4.135	865.676	-2.00	-3.000	865.698	-2.00	5+10.00	866.298	866.390	-0.092	3.000	865.818	2.00	4.086	865.840	2.00	4.476	866.230	100.00	
-5.067	866.392	100.00	-4.135	865.460	-2.00	-3.000	865.483	-2.00	6+0.00	866.083	866.159	-0.076	3.000	865.603	2.00	4.086	865.625	2.00	4.458	865.997	100.00	
-4.938	866.026	100.00	-4.135	865.223	-2.00	-3.000	865.245	-2.00	6+10.00	865.845	865.897	-0.051	3.000	865.365	2.00	4.086	865.387	2.00	4.516	865.816	100.00	
-5.070	865.898	100.00	-4.135	864.963	-2.00	-3.000	864.986	-2.00	7+0.00	865.586	865.719	-0.133	3.000	865.106	2.00	4.086	865.127	2.00	4.518	865.559	100.00	
-5.197	865.744	100.00	-4.135	864.682	-2.00	-3.000	864.704	-2.00	7+10.00	865.304	865.541	-0.237	3.000	864.824	2.00	4.086	864.846	2.00	4.643	865.403	100.00	
-5.266	865.509	100.00	-4.135	864.378	-2.00	-3.000	864.401	-2.00	8+0.00	865.001	865.321	-0.320	3.000	864.521	2.00	4.086	864.543	2.00	4.644	865.100	100.00	
-5.077	864.994	100.00	-4.135	864.053	-2.00	-3.000	864.075	-2.00	8+10.00	864.675	864.938	-0.262	3.000	864.195	2.00	4.086	864.217	2.00	4.722	864.853	100.00	
-5.206	864.787	100.00	-4.135	863.716	-2.00	-3.000	863.739	-2.00	9+0.00	864.339	864.571	-0.232	3.000	863.859	2.00	4.086	863.881	2.00	4.670	864.464	100.00	
-5.275	864.519	100.00	-4.135	863.380	-2.00	-3.000	863.402	-2.00	9+10.00	864.002	864.360	-0.358	3.000	863.522	2.00	4.086	863.544	2.00	4.726	864.184	100.00	
-5.171	864.079	100.00	-4.135	863.043	-2.00	-3.000	863.066	-2.00	10+0.00	863.666	864.005	-0.339	3.000	863.186	2.00	4.086	863.208	2.00	4.879	864.000	100.00	
-5.360	863.932	100.00	-4.135	862.707	-2.00	-3.000	862.730	-2.00	10+10.00	863.330	863.785	-0.456	3.000	862.850	2.00	4.086	862.871	2.00	4.840	863.625	100.00	
-5.427	863.662	100.00	-4.135	862.370	-2.00	-3.000	862.393	-2.00	11+0.00	862.993	863.422	-0.429	3.000	862.513	2.00	4.086	862.535	2.00	4.761	863.209	100.00	
-5.343	863.242	100.00	-4.135	862.034	-2.00	-3.000	862.057	-2.00	11+10.00	862.657	863.068	-0.411	3.000	862.177	2.00	4.086	862.198	2.00	4.885	862.997	100.00	
-5.390	862.952	100.00	-4.135	861.697	-2.00	-3.000	861.720	-2.00	12+0.00	862.320	862.922	-0.602	3.000	861.840	2.00	4.086	861.862	2.00	4.992	862.768	100.00	
-5.486	862.712	100.00	-4.135	861.361	-2.00	-3.000	861.384	-2.00	12+10.00	861.984	862.454	-0.470	3.000	861.504	2.00	4.086	861.525	2.00	4.851	862.290	100.00	
-5.296	862.186	100.00	-4.135	861.025	-2.00	-3.000	861.047	-2.00	13+0.00	861.647	862.020	-0.373	3.000	861.167	2.00	4.086	861.189	2.00	4.889	861.991	100.00	
-5.409	861.962	100.00	-4.135	860.688	-2.00	-3.000	860.711	-2.00	13+10.00	861.311	861.796	-0.486	3.000	860.831	2.00	4.086	860.853	2.00	4.891	861.657	100.00	
-5.527	861.744	100.00	-4.135	860.352	-2.00	-3.000	860.374	-2.00	14+0.00	860.974	861.431	-0.457	3.000	860.494	2.00	4.086	860.516	2.00	4.734	861.164	100.00	
-5.159	861.039	100.00	-4.135	860.015	-2.00	-3.000	860.038	-2.00	14+10.00	860.638	860.902	-0.264	3.000	860.158	2.00	4.086	860.180	2.00	4.699	860.792	100.00	
-5.232	860.770	100.00	-4.135	859.674	-2.00	-3.000	859.696	-2.00	15+0.00	860.296	860.551	-0.255	3.000	859.816	2.00	4.086	859.838	2.00	4.635	860.387	100.00	
-5.149	860.336	100.00	-4.135	859.322	-2.00	-3.000	859.345	-2.00	15+10.00	859.945	860.200	-0.255	3.000	859.465	2.00	4.086	859.487	2.00	4.636	860.036	100.00	
-5.140	859.965	100.00	-4.135	858.960	-2.00	-3.000	858.983	-2.00	16+0.00	859.583	859.882	-0.299	3.000	859.103	2.00	4.086	859.125	2.00	4.724	859.763	100.00	
-5.085	859.539	100.00	-4.135	858.589	-2.00	-3.000	858.611	-2.00	16+10.00	859.211	859.374	-0.162	3.000	858.731	2.00	4.086	858.753	2.00	4.521	859.187	100.00	
-4.927	858.999	100.00	-4.135	858.207	-2.00	-3.000	858.229	-2.00	17+0.00	858.829	858.998	-0.169	3.000	858.349	2.00	4.086	858.371	2.00	4.719	859.004	100.00	
-5.284	858.963	100.00	-4.135	857.815	-2.00	-3.000	857.837	-2.00	17+10.00	858.437	858.829	-0.392	3.000	857.957	2.00	4.086	857.979	2.00	4.837	858.729	100.00	
-5.022	858.299	100.00	-4.135	857.412	-2.00	-3.000	857.435	-2.00	18+0.00	858.035	858.112	-0.077	3.000	857.555	2.00	4.086	857.577	2.00	4.527	858.017	100.00	
-5.043	857.908	100.00	-4.135	857.000	-2.00	-3.000	857.023	-2.00	18+10.00	857.623	857.717	-0.094	3.000	857.143	2.00	4.086	857.165	2.00	4.507	857.586	100.00	
-5.069	857.512	100.00	-4.135	856.578	-2.00	-3.000	856.600	-2.00	19+0.00	857.200	857.375	-0.175	3.000	856.720	2.00	4.086	856.742	2.00	4.552	857.208	100.00	
-4.975	856.985	100.00	-4.135	856.145	-2.00	-3.000	856.168	-2.00	19+10.00	856.768	856.985	-0.217	3.000	856.288	2.00	4.086	856.310	2.00	4.653	856.876	100.00	
-5.072	856.645	100.00	-4.135	855.708	-2.00	-3.000	855.730	-2.00	20+0.00	856.330	856.483	-0.153	3.000	855.850	2.00	4.086	855.872	2.00	4.584	856.370	100.00	
-4.863	855.998	100.00	-4.135	855.270	-2.00	-3.000	855.293	-2.00	20+10.00	855.893	855.994	-0.102	3.000	855.413	2.00	4.086	855.434	2.00	4.661	856.009	100.00	
-4.916	855.614	100.00	-4.135	854.833	-2.00	-3.000	854.855	-2.00	21+0.00	855.455	855.560	-0.104	3.000	854.975	2.00	4.086	854.997	2.00	4.589	855.499	100.00	
-4.870	855.130	100.00	-4.135	854.395	-2.00	-3.000	854.418	-2.00	21+10.00	855.018	854.997	0.020	3.000	854.538	2.00	4.086	854.559	2.00	4.546	855.019	100.00	
-4.874	854.697	100.00	-4.135	853.957	-2.00	-3.000	853.980	-2.00	22+0.00	854.580	854.674	-0.093	3.000	854.100	2.00	4.086	854.122	2.00	4.546	854.581	100.00	
-4.976	854.361	100.00	-4.135	853.520	-2.00	-3.000	853.543	-2.00	22+10.00	854.143	854.115	0.027	3.000	853.663	2.00	4.086	853.684	2.00	4.452	854.050	100.00	
-5.032	853.979	100.00	-4.135	853.082	-2.00	-3.000	853.105	-2.00	23+0.00	853.705	853.978	-0.273	3.000	853.225	2.00	4.086	853.247	2.00	4.786	853.946	100.00	
-5.241	853.751	100.00	-4.135	852.645	-2.00	-3.000	852.667	-2.00	23+10.00	853.267	853.546	-0.279	3.000	852.787	2.00	4.086	852.809	2.00	4.734	853.456	100.00	
-4.956	853.028	100.00	-4.135	852.207	-2.00	-3.000	852.230	-2.00	24+0.00	852.830	853.015	-0.185	3.000	852.350	2.00	4.086	852.372	2.00	4.725	853.010	10	

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	
-5.697	844.865	100.00	-4.135	843.302	-2.00	-3.000	843.325	-2.00	33+0.00	843.925	844.407	-0.482	3.000	843.445	2.00	4.086	843.467	2.00	4.781	844.162	100.00	
-5.672	844.299	100.00	-4.135	842.762	-2.00	-3.000	842.785	-2.00	33+10.00	843.385	843.899	-0.515	3.000	842.905	2.00	4.086	842.926	2.00	4.886	843.726	100.00	
-5.674	843.773	100.00	-4.135	842.234	-2.00	-3.000	842.257	-2.00	34+0.00	842.857	843.356	-0.498	3.000	842.377	2.00	4.086	842.399	2.00	4.898	843.210	100.00	
-5.578	843.176	100.00	-4.135	841.733	-2.00	-3.000	841.755	-2.00	34+10.00	842.355	842.828	-0.473	3.000	841.875	2.00	4.086	841.897	2.00	4.951	842.762	100.00	
-5.632	842.754	100.00	-4.135	841.257	-2.00	-3.000	841.279	-2.00	35+0.00	841.879	842.316	-0.437	3.000	841.399	2.00	4.086	841.421	2.00	4.818	842.153	100.00	
-5.443	842.114	100.00	-4.135	840.807	-2.00	-3.000	840.829	-2.00	35+10.00	841.429	841.714	-0.285	3.000	840.949	2.00	4.086	840.971	2.00	4.605	841.490	100.00	
-5.539	841.786	100.00	-4.135	840.382	-2.00	-3.000	840.405	-2.00	36+0.00	841.005	841.448	-0.443	3.000	840.525	2.00	4.086	840.547	2.00	4.708	841.169	100.00	
-5.279	841.127	100.00	-4.135	839.983	-2.00	-3.000	840.006	-2.00	36+10.00	840.606	840.943	-0.337	3.000	840.126	2.00	4.086	840.148	2.00	4.838	840.900	100.00	
-5.447	840.922	100.00	-4.135	839.611	-2.00	-3.000	839.633	-2.00	37+0.00	840.233	840.550	-0.316	3.000	839.753	2.00	4.086	839.775	2.00	4.645	840.334	100.00	
-5.563	840.691	100.00	-4.135	839.263	-2.00	-3.000	839.286	-2.00	37+10.00	839.886	840.378	-0.492	3.000	839.406	2.00	4.086	839.428	2.00	4.699	840.040	100.00	
-5.378	840.186	100.00	-4.135	838.942	-2.00	-3.000	838.965	-2.00	38+0.00	839.565	839.976	-0.412	3.000	839.085	2.00	4.086	839.107	2.00	4.780	839.800	100.00	
-5.515	840.027	100.00	-4.135	838.647	-2.00	-3.000	838.669	-2.00	38+10.00	839.269	839.749	-0.480	3.000	838.789	2.00	4.086	838.811	2.00	4.795	839.519	100.00	
-5.680	839.909	100.00	-4.135	838.364	-2.00	-3.000	838.387	-2.00	39+0.00	838.987	839.534	-0.547	3.000	838.507	2.00	4.086	838.528	2.00	4.916	839.358	100.00	
-5.704	839.651	100.00	-4.135	838.081	-2.00	-3.000	838.104	-2.00	39+10.00	838.704	839.044	-0.341	3.000	838.224	2.00	4.086	838.246	2.00	4.885	839.044	100.00	
-5.405	839.069	100.00	-4.135	837.799	-2.00	-3.000	837.821	-2.00	40+0.00	838.421	838.982	-0.561	3.000	837.941	2.00	4.086	837.963	2.00	5.126	839.003	100.00	
-5.608	838.988	100.00	-4.135	837.516	-2.00	-3.000	837.539	-2.00	40+10.00	838.139	838.736	-0.597	3.000	837.659	2.00	4.086	837.680	2.00	5.112	838.706	100.00	
-5.712	838.810	100.00	-4.135	837.233	-2.00	-3.000	837.256	-2.00	41+0.00	837.856	838.279	-0.423	3.000	837.376	2.00	4.086	837.398	2.00	4.894	838.205	100.00	
-5.567	838.382	100.00	-4.135	836.950	-2.00	-3.000	836.973	-2.00	41+10.00	837.573	837.988	-0.415	3.000	837.093	2.00	4.086	837.115	2.00	4.987	838.015	100.00	
-5.461	837.994	100.00	-4.135	836.668	-2.00	-3.000	836.691	-2.00	42+0.00	837.291	837.878	-0.587	3.000	836.811	2.00	4.086	836.832	2.00	5.059	837.805	100.00	
-5.462	837.712	100.00	-4.135	836.385	-2.00	-3.000	836.408	-2.00	42+10.00	837.008	837.554	-0.547	3.000	836.528	2.00	4.086	836.550	2.00	4.880	837.343	100.00	
-5.206	837.173	100.00	-4.135	836.102	-2.00	-3.000	836.125	-2.00	43+0.00	836.725	836.987	-0.262	3.000	836.245	2.00	4.086	836.267	2.00	4.821	837.001	100.00	
-5.276	836.961	100.00	-4.135	835.820	-2.00	-3.000	835.842	-2.00	43+10.00	836.442	836.754	-0.311	3.000	835.962	2.00	4.086	835.984	2.00	4.672	836.570	100.00	
-5.381	836.783	100.00	-4.135	835.537	-2.00	-3.000	835.560	-2.00	44+0.00	836.160	836.584	-0.424	3.000	835.680	2.00	4.086	835.702	2.00	4.753	836.368	100.00	
-5.085	836.205	100.00	-4.135	835.254	-2.00	-3.000	835.277	-2.00	44+10.00	835.877	835.985	-0.108	3.000	835.397	2.00	4.086	835.419	2.00	4.679	836.012	100.00	
-5.150	835.987	100.00	-4.135	834.972	-2.00	-3.000	834.994	-2.00	45+0.00	835.594	835.899	-0.304	3.000	835.114	2.00	4.086	835.136	2.00	4.731	835.781	100.00	
-5.196	835.750	100.00	-4.135	834.689	-2.00	-3.000	834.712	-2.00	45+10.00	835.312	835.406	-0.094	3.000	834.832	2.00	4.086	834.854	2.00	4.523	835.290	100.00	
-4.960	835.232	100.00	-4.135	834.406	-2.00	-3.000	834.429	-2.00	46+0.00	835.029	834.986	0.043	3.000	834.549	2.00	4.086	834.571	2.00	4.533	835.017	100.00	
-5.001	834.990	100.00	-4.135	834.124	-2.00	-3.000	834.146	-2.00	46+10.00	834.746	834.945	-0.199	3.000	834.266	2.00	4.086	834.288	2.00	4.779	834.981	100.00	
-5.261	834.967	100.00	-4.135	833.841	-2.00	-3.000	833.864	-2.00	47+0.00	834.464	834.848	-0.384	3.000	833.984	2.00	4.086	834.005	2.00	4.793	834.712	100.00	
-5.352	834.776	100.00	-4.135	833.558	-2.00	-3.000	833.581	-2.00	47+10.00	834.181	834.609	-0.428	3.000	833.701	2.00	4.086	833.723	2.00	4.790	834.427	100.00	
-5.014	834.155	100.00	-4.135	833.276	-2.00	-3.000	833.298	-2.00	48+0.00	833.898	833.985	-0.087	3.000	833.418	2.00	4.086	833.440	2.00	4.665	834.018	100.00	
-5.133	833.990	100.00	-4.135	832.993	-2.00	-3.000	833.016	-2.00	48+10.00	833.616	833.912	-0.296	3.000	833.136	2.00	4.086	833.157	2.00	4.868	833.939	100.00	
-5.394	833.970	100.00	-4.135	832.710	-2.00	-3.000	832.733	-2.00	49+0.00	833.333	833.757	-0.424	3.000	832.853	2.00	4.086	832.875	2.00	4.761	833.549	100.00	
-5.418	833.711	100.00	-4.135	832.428	-2.00	-3.000	832.450	-2.00	49+10.00	833.050	833.422	-0.371	3.000	832.570	2.00	4.086	832.592	2.00	4.777	833.283	100.00	
-5.301	833.311	100.00	-4.135	832.145	-2.00	-3.000	832.168	-2.00	50+0.00	832.768	832.995	-0.227	3.000	832.288	2.00	4.086	832.309	2.00	4.788	833.011	100.00	
-5.269	832.997	100.00	-4.135	831.862	-2.00	-3.000	831.885	-2.00	50+10.00	832.485	832.971	-0.486	3.000	832.005	2.00	4.086	832.027	2.00	4.931	832.871	100.00	
-5.440	832.885	100.00	-4.135	831.580	-2.00	-3.000	831.602	-2.00	51+0.00	832.202	832.671	-0.468	3.000	831.722	2.00	4.086	831.744	2.00	4.824	832.482	100.00	
-5.516	832.678	100.00	-4.135	831.297	-2.00	-3.000	831.320	-2.00	51+10.00	831.920	832.515	-0.595	3.000	831.440	2.00	4.086	831.461	2.00	4.961	832.336	100.00	
-5.606	832.485	100.00	-4.135	831.014	-2.00	-3.000	831.037	-2.00	52+0.00	831.637	832.000	-0.363	3.000	831.157	2.00	4.086	831.179	2.00	4.950	832.043	100.00	
-5.399	831.996	100.00	-4.135	830.732	-2.00	-3.000	830.754	-2.00	52+10.00	831.354	831.900	-0.546	3.000	830.874	2.00	4.086	830.896	2.00	5.028	831.838	100.00	
-5.560	831.874	100.00	-4.135	830.449	-2.00	-3.000	830.472	-2.00	53+0.00	831.072	831.581	-0.509	3.000	830.592	2.00	4.086	830.613	2.00	4.805	831.332	100.00	
-5.731	831.767	100.00	-4.135	830.171	-2.00	-3.000	830.194	-2.00	53+10.00	830.794	831.427	-0.633	3.000	830.314	2.00	4.086	830.336	2.00	4.887	831.136	100.00	
-5.768	831.536	100.00	-4.135	829.903	-2.00	-3.000	829.926	-2.00	54+0.00	830.526	830.995	-0.469	3.000	830.046	2.00	4.086	830.068	2.00	5.012	830.994	100.00	
-6.073	831.583	100.00	-4.135	829.645	-2.00	-3.000	829.668	-2.00	54+10.00	830.268	830.927	-0.659	3.000	829.788	2.00	4.086	829.809	2.00	5.015	830.738	100.00	
-6.604	831.865	100.00	-4.135	829.397	-2.00	-3.000	829.419	-2.00	55+0.00	830.019	830.922	-0.902	3.000	829.539	2.00	4.086	829.561	2.00	5.204	830.678	100.00	
-6.726	831.749	100.00	-4.135	829.158	-2.00	-3.000	829.181	-2.00	55+10.00	829.781	831.192	-1.412	3.000	829.301	2.00	4.086	829.322	2.00	5.348	830.585	100.00	
-6.762	831.556	100.00	-4.135	828.929	-2.00	-3.000	828.952	-2.00	56+0.00	829.552	831.273	-1.721	3.000	829.072	2.00	4.086	829.094	2.00	5.646	830.654	100.00	
-6.786	831.361	100.00	-4.135	828.710	-2.00	-3.000	828.733	-2.00	56+10.00	829.333	831.001	-1.668	3.000	828.853	2.00	4.086	828.875	2.00	5.792	830.580	100.00	
-6.961	831.327	100.00	-4.135	828.501	-2.00	-3.000																

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	
-5.296	825.948	100.00	-4.135	824.787	-2.00	-3.000	824.810	-2.00	67+0.00	825.410	825.960	-0.550	3.000	824.930	2.00	4.086	824.952	2.00	4.869	825.734	100.00	
-5.183	825.651	100.00	-4.135	824.603	-2.00	-3.000	824.625	-2.00	67+10.00	825.225	825.449	-0.223	3.000	824.745	2.00	4.086	824.767	2.00	4.625	825.305	100.00	
-4.923	825.206	100.00	-4.135	824.418	-2.00	-3.000	824.441	-2.00	68+0.00	825.041	825.059	-0.018	3.000	824.561	2.00	4.086	824.582	2.00	4.634	825.130	100.00	
-4.913	825.011	100.00	-4.135	824.233	-2.00	-3.000	824.256	-2.00	68+10.00	824.856	824.989	-0.133	3.000	824.376	2.00	4.086	824.398	2.00	4.725	825.037	100.00	
-5.060	824.974	100.00	-4.135	824.048	-2.00	-3.000	824.071	-2.00	69+0.00	824.671	824.865	-0.194	3.000	824.191	2.00	4.086	824.213	2.00	4.620	824.746	100.00	
-5.082	824.810	100.00	-4.135	823.864	-2.00	-3.000	823.886	-2.00	69+10.00	824.486	824.617	-0.131	3.000	824.006	2.00	4.086	824.028	2.00	4.509	824.451	100.00	
-5.004	824.548	100.00	-4.135	823.679	-2.00	-3.000	823.702	-2.00	70+0.00	824.302	824.404	-0.102	3.000	823.822	2.00	4.086	823.843	2.00	4.497	824.254	100.00	
-4.894	824.244	100.00	-4.135	823.484	-2.00	-3.000	823.507	-2.00	70+10.00	824.107	823.996	0.111	3.000	823.627	2.00	4.086	823.649	2.00	4.471	824.034	100.00	
-4.850	823.985	100.00	-4.135	823.270	-2.00	-3.000	823.293	-2.00	71+0.00	823.893	823.948	-0.055	3.000	823.413	2.00	4.086	823.435	2.00	4.632	823.980	100.00	
-5.000	823.902	100.00	-4.135	823.037	-2.00	-3.000	823.059	-2.00	71+10.00	823.659	823.719	-0.059	3.000	823.179	2.00	4.086	823.201	2.00	4.441	823.556	100.00	
-5.176	823.825	100.00	-4.135	822.783	-2.00	-3.000	822.806	-2.00	72+0.00	823.406	823.605	-0.199	3.000	822.926	2.00	4.086	822.948	2.00	4.551	823.412	100.00	
-5.064	823.439	100.00	-4.135	822.510	-2.00	-3.000	822.533	-2.00	72+10.00	823.133	823.293	-0.160	3.000	822.653	2.00	4.086	822.675	2.00	4.555	823.143	100.00	
-4.950	823.033	100.00	-4.135	822.217	-2.00	-3.000	822.240	-2.00	73+0.00	822.840	822.988	-0.148	3.000	822.360	2.00	4.086	822.382	2.00	4.709	823.005	100.00	
-5.194	822.964	100.00	-4.135	821.905	-2.00	-3.000	821.928	-2.00	73+10.00	822.528	822.814	-0.286	3.000	822.048	2.00	4.086	822.070	2.00	4.719	822.702	100.00	
-5.351	822.789	100.00	-4.135	821.573	-2.00	-3.000	821.596	-2.00	74+0.00	822.196	822.572	-0.376	3.000	821.716	2.00	4.086	821.738	2.00	4.699	822.350	100.00	
-5.114	822.201	100.00	-4.135	821.222	-2.00	-3.000	821.244	-2.00	74+10.00	821.844	821.982	-0.138	3.000	821.364	2.00	4.086	821.386	2.00	4.713	822.013	100.00	
-5.264	821.979	100.00	-4.135	820.851	-2.00	-3.000	820.873	-2.00	75+0.00	821.473	821.849	-0.376	3.000	820.993	2.00	4.086	821.015	2.00	4.753	821.682	100.00	
-5.436	821.771	100.00	-4.135	820.470	-2.00	-3.000	820.492	-2.00	75+10.00	821.092	821.466	-0.374	3.000	820.612	2.00	4.086	820.634	2.00	4.672	821.219	100.00	
-5.564	821.518	100.00	-4.135	820.089	-2.00	-3.000	820.111	-2.00	76+0.00	820.711	821.077	-0.365	3.000	820.231	2.00	4.086	820.253	2.00	4.818	820.985	100.00	
-5.503	821.075	100.00	-4.135	819.708	-2.00	-3.000	819.730	-2.00	76+10.00	820.330	820.967	-0.637	3.000	819.850	2.00	4.086	819.872	2.00	5.188	820.974	100.00	
-5.659	820.850	100.00	-4.135	819.327	-2.00	-3.000	819.349	-2.00	77+0.00	819.949	820.523	-0.574	3.000	819.469	2.00	4.086	819.491	2.00	4.978	820.383	100.00	
-5.785	820.596	100.00	-4.135	818.946	-2.00	-3.000	818.968	-2.00	77+10.00	819.568	820.149	-0.581	3.000	819.088	2.00	4.086	819.110	2.00	4.961	819.985	100.00	
-5.724	820.153	100.00	-4.135	818.565	-2.00	-3.000	818.587	-2.00	78+0.00	819.187	819.622	-0.434	3.000	818.707	2.00	4.086	818.729	2.00	4.713	819.356	100.00	
-5.802	819.850	100.00	-4.135	818.184	-2.00	-3.000	818.206	-2.00	78+10.00	818.806	819.076	-0.270	3.000	818.326	2.00	4.086	818.348	2.00	4.719	818.981	100.00	
-5.798	819.465	100.00	-4.135	817.803	-2.00	-3.000	817.825	-2.00	79+0.00	818.425	818.920	-0.494	3.000	817.945	2.00	4.086	817.967	2.00	4.777	818.658	100.00	
-5.502	818.789	100.00	-4.135	817.422	-2.00	-3.000	817.444	-2.00	79+10.00	818.044	818.180	-0.136	3.000	817.564	2.00	4.086	817.586	2.00	4.529	818.028	100.00	
-5.073	817.978	100.00	-4.135	817.041	-2.00	-3.000	817.063	-2.00	80+0.00	817.663	817.989	-0.325	3.000	817.183	2.00	4.086	817.205	2.00	4.894	818.012	100.00	
-5.132	817.671	100.00	-4.135	816.674	-2.00	-3.000	816.697	-2.00	80+10.00	817.297	817.718	-0.421	3.000	816.817	2.00	4.086	816.839	2.00	4.896	817.648	100.00	
-5.050	817.252	100.00	-4.135	816.337	-2.00	-3.000	816.360	-2.00	81+0.00	816.960	817.062	-0.102	3.000	816.480	2.00	4.086	816.502	2.00	4.594	817.010	100.00	
-5.082	816.976	100.00	-4.135	816.030	-2.00	-3.000	816.052	-2.00	81+10.00	816.652	817.007	-0.355	3.000	816.172	2.00	4.086	816.194	2.00	4.811	816.919	100.00	
-5.313	816.929	100.00	-4.135	815.751	-2.00	-3.000	815.774	-2.00	82+0.00	816.374	816.795	-0.421	3.000	815.894	2.00	4.086	815.916	2.00	4.808	816.638	100.00	
-5.456	816.824	100.00	-4.135	815.502	-2.00	-3.000	815.525	-2.00	82+10.00	816.125	816.608	-0.483	3.000	815.645	2.00	4.086	815.667	2.00	4.836	816.417	100.00	
-5.728	816.875	100.00	-4.135	815.283	-2.00	-3.000	815.305	-2.00	83+0.00	815.905	816.590	-0.685	3.000	815.425	2.00	4.086	815.447	2.00	4.994	816.354	100.00	
-5.715	816.673	100.00	-4.135	815.092	-2.00	-3.000	815.115	-2.00	83+10.00	815.715	816.062	-0.347	3.000	815.235	2.00	4.086	815.257	2.00	4.857	816.028	100.00	
-5.265	816.061	100.00	-4.135	814.931	-2.00	-3.000	814.954	-2.00	84+0.00	815.554	815.936	-0.383	3.000	815.074	2.00	4.086	815.096	2.00	4.823	815.832	100.00	
-5.306	815.971	100.00	-4.135	814.799	-2.00	-3.000	814.822	-2.00	84+10.00	815.422	815.507	-0.085	3.000	814.942	2.00	4.086	814.964	2.00	4.444	815.321	100.00	
-5.356	815.918	100.00	-4.135	814.697	-2.00	-3.000	814.720	-2.00	85+0.00	815.320	815.343	-0.023	3.000	814.840	2.00	4.086	814.862	2.00	4.154	814.929	100.00	
-5.341	815.815	100.00	-4.135	814.609	-2.00	-3.000	814.632	-2.00	85+10.00	815.232	815.410	-0.178	3.000	814.752	2.00	4.086	814.774	2.00	4.358	815.045	100.00	
-5.476	815.863	100.00	-4.135	814.522	-2.00	-3.000	814.544	-2.00	86+0.00	815.144	815.095	0.049	3.000	814.664	2.00	4.086	814.686	2.00	4.384	814.984	100.00	
-5.409	815.708	100.00	-4.135	814.434	-2.00	-3.000	814.457	-2.00	86+10.00	815.057	814.990	0.066	3.000	814.577	2.00	4.086	814.598	2.00	4.446	814.958	100.00	
-5.218	815.429	100.00	-4.135	814.346	-2.00	-3.000	814.369	-2.00	87+0.00	814.969	814.957	0.012	3.000	814.489	2.00	4.086	814.511	2.00	4.301	814.725	100.00	
-5.233	815.422	100.00	-4.135	814.323	-2.00	-3.000	814.346	-2.00	87+2.626	814.946	814.946	0.00	3.000	814.466	2.00	4.086	814.488	2.00	4.307	814.709	100.00	

AV. BRASIL - LD 0+0.00 - 20+18.916

Lado Esquerdo						Eixo				Lado Direito										OBSERVAÇÃO		
OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			OFFSET ATERRO			
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. (%)
-4.586	814.385	2.00	-3.500	814.363	2.00	0+0.00	814.833	814.833	0.00	3.500	814.223	-2.00	4.635	814.201	-2.00	5.658	815.223	100.00				
-4.586	814.183	2.00	-3.500	814.161	2.00	0+10.00	814.631	814.050	0.581	3.500	814.021	-2.00	4.635	813.998	-2.00	5.209	814.572	100.00				
-4.586	813.980	2.00	-3.500	813.959	2.00	1+0.00	814.429	813.178	1.251	3.500	813.819	-2.00	4.635	813.796	-2.00				5.090	813.492	-66.67	
-4.586	813.778	2.00	-3.500	813.756	2.00	1+10.00	814.226	812.243	1.983	3.500	813.616	-2.00	4.635	813.593	-2.00				6.757	812.179	-66.67	
-4.586	813.575	2.00	-3.500	813.554	2.00	2+0.00	814.024	811.369	2.655	3.500	813.414	-2.00	4.635	813.391	-2.00				6.511	812.141	-66.67	
-4.586	813.373	2.00	-3.500	813.351	2.00	2+10.00	813.821	810.500	3.322	3.500	813.211	-2.00	4.635	813.189	-2.00				6.855	811.709	-66.67	
-4.586	813.171	2.00	-3.500	813.149	2.00	3+0.00	813.619	809.573	4.046	3.500	813.009	-2.00	4.635	812.986	-2.00				7.601	811.009	-66.67	
-4.586	812.968	2.00	-3.500	812.947	2.00	3+10.00	813.417	808.729	4.687	3.500	812.807	-2.00	4.635	812.784	-2.00				8.551	810.173	-66.67	
-4.586	812.766	2.00	-3.500	812.744	2.00	4+0.00	813.214	807.756	5.458	3.500	812.604	-2.00	4.635	812.582	-2.00				9.619	809.259	-66.67	
-4.586	812.564	2.00	-3.500	812.542	2.00	4+10.00	813.012	806.785	6.227	3.500	812.402	-2.00	4.635	812.379	-2.00				10.986	808.145	-66.67	
-4.586	812.382	2.00	-3.500	812.360	2.00	5+0.00	812.830	805.993	6.838	3.500	812.220	-2.00	4.635	812.198	-2.00				12.632	806.867	-66.67	
-4.586	812.242	2.00	-3.500	812.220	2.00	5+10.00	812.690	805.263	7.427	3.500	812.080	-2.00	4.635	812.058	-2.00				14.793	805.286	-66.67	
-4.586	812.144	2.00	-3.500	812.122	2.00	6+0.00	812.592	804.764	7.828	3.500	811.982	-2.00	4.635	811.960	-2.00				16.365	804.140	-66.67	
-4.586	812.087	2.00	-3.500	812.066	2.00	6+10.00	812.536	804.079	8.457	3.500	811.926	-2.00	4.635	811.903	-2.00				18.851	802.425	-66.67	
-4.586	812.073	2.00	-3.500	812.051	2.00	7+0.00	812.521	804.037	8.483	3.500	811.911	-2.00	4.635	811.888	-2.00				22.196	800.181	-66.67	
-4.586	812.099	2.00	-3.500	812.078	2.00	7+10.00	812.548	804.413	8.135	3.500	811.938	-2.00	4.635	811.915	-2.00				21.952	800.370	-66.67	
-4.586	812.168	2.00	-3.500	812.146	2.00	8+0.00	812.616	805.080	7.536	3.500	812.006	-2.00	4.635	811.983	-2.00				17.246	803.576	-66.67	
-4.586	812.278	2.00	-3.500	812.256	2.00	8+10.00	812.726	805.765	6.961	3.500	812.116	-2.00	4.635	812.093	-2.00				13.276	806.333	-66.67	
-4.586	812.430	2.00	-3.500	812.408	2.00	9+0.00	812.878	806.625	6.253	3.500	812.268	-2.00	4.635	812.245	-2.00				11.967	807.358	-66.67	
-4.586	812.623	2.00	-3.500	812.601	2.00	9+10.00	813.071	807.536	5.535	3.500	812.461	-2.00	4.635	812.439	-2.00				10.937	808.237	-66.67	
-4.586	812.837	2.00	-3.500	812.816	2.00	10+0.00	813.286	808.558	4.728	3.500	812.676	-2.00	4.635	812.653	-2.00				10.223	808.928	-66.67	
-4.586	813.052	2.00	-3.500	813.030	2.00	10+10.00	813.500	809.561	3.939	3.500	812.890	-2.00	4.635	812.867	-2.00				8.991	809.963	-66.67	
-4.586	813.266	2.00	-3.500	813.244	2.00	11+0.00	813.714	810.441	3.273	3.500	813.104	-2.00	4.635	813.082	-2.00				8.113	810.763	-66.67	
-4.586	813.480	2.00	-3.500	813.459	2.00	11+10.00	813.929	811.262	2.666	3.500	813.319	-2.00	4.635	813.296	-2.00				7.525	811.369	-66.67	
-4.586	813.714	2.00	-3.500	813.692	2.00	12+0.00	814.162	811.965	2.197	3.500	813.552	-2.00	4.635	813.530	-2.00				6.867	812.042	-66.67	
-4.586	813.987	2.00	-3.500	813.965	2.00	12+10.00	814.435	812.786	1.649	3.500	813.825	-2.00	4.635	813.802	-2.00				6.038	812.867	-66.67	
-4.586	814.298	2.00	-3.500	814.277	2.00	13+0.00	814.747	813.453	1.294	3.500	814.137	-2.00	4.635	814.114	-2.00				5.614	813.462	-66.67	
-4.586	814.649	2.00	-3.500	814.627	2.00	13+10.00	815.097	814.187	0.911	3.500	814.487	-2.00	4.635	814.465	-2.00				5.059	814.182	-66.67	
-4.586	815.039	2.00	-3.500	815.017	2.00	14+0.00	815.487	814.894	0.593	3.500	814.877	-2.00	4.635	814.854	-2.00	4.748	814.967	100.00				
-4.586	815.467	2.00	-3.500	815.446	2.00	14+10.00	815.916	815.596	0.320	3.500	815.306	-2.00	4.635	815.283	-2.00	4.886	815.534	100.00				
-4.586	815.935	2.00	-3.500	815.913	2.00	15+0.00	816.383	816.087	0.297	3.500	815.773	-2.00	4.635	815.751	-2.00	4.878	815.993	100.00				
-4.586	816.441	2.00	-3.500	816.420	2.00	15+10.00	816.890	816.792	0.097	3.500	816.280	-2.00	4.635	816.257	-2.00	5.151	816.773	100.00				
-4.586	816.987	2.00	-3.500	816.965	2.00	16+0.00	817.435	817.477	-0.041	3.500	816.825	-2.00	4.635	816.803	-2.00	5.308	817.475	100.00				
-4.586	817.571	2.00	-3.500	817.550	2.00	16+10.00	818.020	818.016	0.004	3.500	817.410	-2.00	4.635	817.387	-2.00	5.268	818.020	100.00				
-4.586	818.175	2.00	-3.500	818.154	2.00	17+0.00	818.624	818.729	-0.105	3.500	818.014	-2.00	4.635	817.991	-2.00	5.406	818.762	100.00				
-4.586	818.779	2.00	-3.500	818.758	2.00	17+10.00	819.228	819.205	0.023	3.500	818.618	-2.00	4.635	818.595	-2.00	5.315	819.275	100.00				
-4.586	819.372	2.00	-3.500	819.350	2.00	18+0.00	819.820	819.993	-0.174	3.500	819.210	-2.00	4.635	819.187	-2.00	5.441	819.994	100.00				
-4.586	819.941	2.00	-3.500	819.919	2.00	18+10.00	820.389	820.360	0.029	3.500	819.779	-2.00	4.635	819.756	-2.00	5.329	820.451	100.00				
-4.586	820.487	2.00	-3.500	820.465	2.00	19+0.00	820.935	820.972	-0.037	3.500	820.325	-2.00	4.635	820.302	-2.00	5.281	820.948	100.00				
-4.586	821.009	2.00	-3.500	820.988	2.00	19+10.00	821.458	821.287	0.171	3.500	820.848	-2.00	4.635	820.825	-2.00	5.010	821.200	100.00				
-4.586	821.509	2.00	-3.500	821.487	2.00	20+0.00	821.957	821.801	0.156	3.500	821.347	-2.00	4.635	821.324	-2.00	5.087	821.777	100.00				
-4.586	821.985	2.00	-3.500	821.963	2.00	20+10.00	822.433	822.361	0.073	3.500	821.823	-2.00	4.635	821.801	-2.00	5.168	822.334	100.00				
-4.586	822.399	2.00	-3.500	822.378	2.00	20+18.916	822.848	822.848	0.00	3.500	822.238	-2.00	4.635	822.215	-2.00	5.244	822.824	100.00				

V. BRASIL - LE 0+0.00 - 21+2.797

Lado Esquerdo						Eixo				Lado Direito						OBSERVAÇÃO						
OFFSET CORTE			OFFSET ATERRO			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha		BORDO SUB-BASE			OFFSET SUB		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)						Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-5.459	815.004	100.00				-4.635	814.180	-2.00	-3.500	814.203	-2.00	0+0.00	814.813	814.813	0.00	3.500	814.343	2.00	4.586	814.364	2.00	
-4.969	814.314	100.00				-4.635	813.980	-2.00	-3.500	814.002	-2.00	0+10.00	814.612	814.142	0.470	3.500	814.142	2.00	4.586	814.164	2.00	
			-7.336	811.979	-66.67	-4.635	813.780	-2.00	-3.500	813.802	-2.00	1+0.00	814.412	813.027	1.385	3.500	813.942	2.00	4.586	813.964	2.00	
			-7.173	811.887	-66.67	-4.635	813.579	-2.00	-3.500	813.602	-2.00	1+10.00	814.212	812.042	2.170	3.500	813.742	2.00	4.586	813.764	2.00	
			-7.483	811.481	-66.67	-4.635	813.379	-2.00	-3.500	813.402	-2.00	2+0.00	814.012	811.451	2.561	3.500	813.542	2.00	4.586	813.564	2.00	
			-7.865	811.026	-66.67	-4.635	813.179	-2.00	-3.500	813.202	-2.00	2+10.00	813.812	810.788	3.024	3.500	813.342	2.00	4.586	813.364	2.00	
			-7.588	811.010	-66.67	-4.635	812.979	-2.00	-3.500	813.002	-2.00	3+0.00	813.612	810.181	3.430	3.500	813.142	2.00	4.586	813.163	2.00	
			-7.907	810.597	-66.67	-4.635	812.779	-2.00	-3.500	812.801	-2.00	3+10.00	813.411	809.300	4.111	3.500	812.941	2.00	4.586	812.963	2.00	
			-11.288	808.143	-66.67	-4.635	812.579															

Lado Esquerdo									Eixo				Lado Direito						OBSERVAÇÃO			
OFFSET CORTE			OFFSET ATERRO			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE				OFFSET SUB		
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. (%)
			-13.059	806.620	-66.67	-4.635	812.236	-2.00	-3.500	812.259	-2.00	9+0.00	812.869	806.902	5.966	3.500	812.399	2.00	4.586	812.420	2.00	
			-11.494	807.853	-66.67	-4.635	812.425	-2.00	-3.500	812.448	-2.00	9+10.00	813.058	807.813	5.244	3.500	812.588	2.00	4.586	812.609	2.00	
			-10.210	808.918	-66.67	-4.635	812.635	-2.00	-3.500	812.657	-2.00	10+0.00	813.267	809.020	4.248	3.500	812.797	2.00	4.586	812.819	2.00	
			-9.616	809.523	-66.67	-4.635	812.844	-2.00	-3.500	812.867	-2.00	10+10.00	813.477	809.423	4.054	3.500	813.007	2.00	4.586	813.028	2.00	
			-8.900	810.210	-66.67	-4.635	813.053	-2.00	-3.500	813.076	-2.00	11+0.00	813.686	810.094	3.592	3.500	813.216	2.00	4.586	813.238	2.00	
			-8.090	810.960	-66.67	-4.635	813.263	-2.00	-3.500	813.286	-2.00	11+10.00	813.896	810.797	3.099	3.500	813.426	2.00	4.586	813.447	2.00	
			-7.007	811.911	-66.67	-4.635	813.492	-2.00	-3.500	813.515	-2.00	12+0.00	814.125	811.718	2.407	3.500	813.655	2.00	4.586	813.676	2.00	
			-6.345	812.620	-66.67	-4.635	813.760	-2.00	-3.500	813.783	-2.00	12+10.00	814.393	812.445	1.947	3.500	813.923	2.00	4.586	813.944	2.00	
			-5.692	813.363	-66.67	-4.635	814.067	-2.00	-3.500	814.090	-2.00	13+0.00	814.700	813.194	1.506	3.500	814.230	2.00	4.586	814.252	2.00	
			-5.099	814.104	-66.67	-4.635	814.413	-2.00	-3.500	814.436	-2.00	13+10.00	815.046	813.992	1.055	3.500	814.576	2.00	4.586	814.598	2.00	
			-4.655	814.785	-66.67	-4.635	814.799	-2.00	-3.500	814.821	-2.00	14+0.00	815.431	814.770	0.661	3.500	814.961	2.00	4.586	814.983	2.00	
-4.822	815.410	100.00				-4.635	815.223	-2.00	-3.500	815.246	-2.00	14+10.00	815.856	815.415	0.441	3.500	815.386	2.00	4.586	815.407	2.00	
-5.012	816.064	100.00				-4.635	815.686	-2.00	-3.500	815.709	-2.00	15+0.00	816.319	815.998	0.321	3.500	815.849	2.00	4.586	815.871	2.00	
-5.192	816.746	100.00				-4.635	816.189	-2.00	-3.500	816.212	-2.00	15+10.00	816.822	816.757	0.064	3.500	816.352	2.00	4.586	816.373	2.00	
-5.115	817.210	100.00				-4.635	816.730	-2.00	-3.500	816.753	-2.00	16+0.00	817.363	817.238	0.125	3.500	816.893	2.00	4.586	816.915	2.00	
-5.313	817.989	100.00				-4.635	817.311	-2.00	-3.500	817.334	-2.00	16+10.00	817.944	817.929	0.014	3.500	817.474	2.00	4.586	817.495	2.00	
-5.215	818.491	100.00				-4.635	817.911	-2.00	-3.500	817.934	-2.00	17+0.00	818.544	818.438	0.106	3.500	818.074	2.00	4.586	818.096	2.00	
-5.209	819.086	100.00				-4.635	818.511	-2.00	-3.500	818.534	-2.00	17+10.00	819.144	819.032	0.112	3.500	818.674	2.00	4.586	818.696	2.00	
-5.140	819.604	100.00				-4.635	819.100	-2.00	-3.500	819.122	-2.00	18+0.00	819.732	819.621	0.112	3.500	819.262	2.00	4.586	819.284	2.00	
-5.239	820.268	100.00				-4.635	819.665	-2.00	-3.500	819.688	-2.00	18+10.00	820.298	820.202	0.096	3.500	819.828	2.00	4.586	819.849	2.00	
-5.401	820.973	100.00				-4.635	820.207	-2.00	-3.500	820.229	-2.00	19+0.00	820.839	820.930	-0.091	3.500	820.369	2.00	4.586	820.391	2.00	
-5.204	821.294	100.00				-4.635	820.725	-2.00	-3.500	820.748	-2.00	19+10.00	821.358	821.203	0.154	3.500	820.888	2.00	4.586	820.909	2.00	
-5.274	821.859	100.00				-4.635	821.220	-2.00	-3.500	821.243	-2.00	20+0.00	821.853	821.775	0.078	3.500	821.383	2.00	4.586	821.404	2.00	
-5.212	822.269	100.00				-4.635	821.692	-2.00	-3.500	821.714	-2.00	20+10.00	822.324	822.244	0.080	3.500	821.854	2.00	4.586	821.876	2.00	
-5.235	822.752	100.00				-4.635	822.151	-2.00	-3.500	822.174	-2.00	21+0.00	822.784	822.766	0.018	3.500	822.314	2.00	4.586	822.336	2.00	
-5.246	822.891	100.00				-4.635	822.280	-2.00	-3.500	822.303	-2.00	21+2.797	822.913	822.913	0.00	3.500	822.443	2.00	4.586	822.465	2.00	

AV. DAS NAÇÕES - LD 0+0.00 - 134+12.365

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO						
OFFSET ATERRO			OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB				OFFSET CORTE			OFFSET ATERRO		
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+0.00	824.597	824.597	0.000													
			-5.206	824.255	100.00	-4.789	823.838	-4.98	-3.500	823.902	-2.00	0+10.00	824.582	824.467	0.115	3.500	824.042	2.00	4.788	823.978	-4.95	5.502	824.691	100.00				
			-5.231	824.269	100.00	-4.789	823.826	-4.96	-3.500	823.890	-2.00	1+0.00	824.570	824.547	0.023	3.500	824.030	2.00	4.788	823.967	-4.90	5.621	824.800	100.00				
			-5.240	824.266	100.00	-4.788	823.814	-4.94	-3.500	823.878	-2.00	1+10.00	824.558	824.563	-0.006	3.500	824.018	2.00	4.787	823.955	-4.85	5.719	824.888	100.00				
			-5.241	824.251	100.00	-4.788	823.798	-4.91	-3.500	823.862	-2.00	2+0.00	824.542	824.594	-0.053	3.500	824.002	2.00	4.786	823.940	-4.80	5.822	824.976	100.00				
			-5.213	824.199	100.00	-4.787	823.774	-4.89	-3.500	823.837	-2.00	2+10.00	824.517	824.548	-0.031	3.500	823.977	2.00	4.785	823.916	-4.75	5.807	824.937	100.00				
			-5.278	824.231	100.00	-4.787	823.740	-4.87	-3.500	823.803	-2.00	3+0.00	824.483	824.532	-0.049	3.500	823.943	2.00	4.784	823.883	-4.70	5.760	824.858	100.00				
			-5.271	824.182	100.00	-4.787	823.698	-4.85	-3.500	823.761	-2.00	3+10.00	824.441	824.453	-0.012	3.500	823.901	2.00	4.784	823.841	-4.65	5.688	824.745	100.00				
			-5.273	824.134	100.00	-4.786	823.648	-4.83	-3.500	823.710	-2.00	4+0.00	824.390	824.418	-0.029	3.500	823.850	2.00	4.783	823.791	-4.60	5.717	824.725	100.00				
			-5.308	824.110	100.00	-4.786	823.588	-4.81	-3.500	823.650	-2.00	4+10.00	824.330	824.361	-0.031	3.500	823.790	2.00	4.782	823.732	-4.55	5.680	824.630	100.00				
			-5.307	824.042	100.00	-4.786	823.520	-4.79	-3.500	823.582	-2.00	5+0.00	824.262	824.311	-0.049	3.500	823.722	2.00	4.781	823.664	-4.50	5.719	824.601	100.00				
			-5.336	823.994	100.00	-4.785	823.443	-4.76	-3.500	823.504	-2.00	5+10.00	824.184	824.270	-0.086	3.500	823.644	2.00	4.780	823.587	-4.45	5.749	824.556	100.00				
			-5.375	823.947	100.00	-4.785	823.358	-4.74	-3.500	823.419	-2.00	6+0.00	824.099	824.232	-0.133	3.500	823.559	2.00	4.780	823.502	-4.40	5.847	824.570	100.00				
			-5.335	823.814	100.00	-4.785	823.263	-4.72	-3.500	823.324	-2.00	6+10.00	824.004	824.028	-0.024	3.500	823.464	2.00	4.779	823.408	-4.35	5.774	824.404	100.00				
			-5.341	823.721	100.00	-4.784	823.165	-4.70	-3.500	823.225	-2.00	7+0.00	823.905	823.926	-0.021	3.500	823.365	2.00	4.778	823.310	-4.30	5.732	824.265	100.00				
			-5.377	823.659	100.00	-4.784	823.066	-4.68	-3.500	823.126	-2.00	7+10.00	823.806	823.886	-0.080	3.500	823.266	2.00	4.777	823.212	-4.25	5.770	824.204	100.00				
			-5.361	823.545	100.00	-4.784	822.968	-4.66	-3.500	823.027	-2.00	8+0.00	823.707	823.792	-0.085	3.500	823.167	2.00	4.777	823.114	-4.20	5.730	824.068	100.00				
			-5.377	823.457	100.00	-4.783	822.864	-4.64	-3.500	822.923	-2.00	8+10.00	823.603	823.680	-0.077	3.500	823.063	2.00	4.776	823.010	-4.15	5.680	823.915	100.00				
			-5.420	823.387	100.00	-4.783	822.750	-4.62	-3.500	822.809	-2.00	9+0.00	823.489	823.647	-0.157	3.500	822.949	2.00	4.775	822.897	-4.10	5.808	823.930	100.00				
			-5.412	823.255	100.00	-4.783	822.626	-4.59	-3.500	822.685	-2.00	9+10.00	823.365	823.537	-0.172	3.500	822.825	2.00	4.774	822.773	-4.05	5.837	823.836	100.00				
			-5.354	823.063	100.00	-4.782	822.491	-4.57	-3.500	822.550	-2.00	10+0.00	823.230	823.373	-0.143	3.500	822.690	2.00	4.773	822.639	-4.00	5.846	823.712	100.00				
			-5.285	822.850	100.00	-4.782	822.347	-4.55	-3.500	822.405	-2.00	10+10.00	823.085	823.024	0.061	3.500	822.545	2.00	4.773	822.495	-3.95	5.680	823.402	100.00				
			-5.325	822.735	100.00	-4.782	822.192	-4.53	-3.500	822.250	-2.00	11+0.00	822.930	822.918	0.012	3.500	822.390	2.00	4.772	822.340	-3.90	5.623	823.191	100.00				
			-5.408	822.653	100.00	-4.781	822.027	-4.51	-3.500	822.084	-2.00	11+10.00	822.764	822.865	-0.101	3.500	822.224	2.00	4.771	822.175	-3.85	5.707	823.111	100.00				
			-5.486	822.556	100.00	-4.781	821.851	-4.49	-3.500	821.909	-2.00	12+0.00	822.589	822.812	-0.223	3.500	822.049	2.00	4.770	822.000	-3.80	5.788	823.018	100.00				
			-5.494	822.379	100.00	-4.781	821.666	-4.47	-3.500	821.723	-2.00	12+10.00	822.403	822.648	-0.246	3.500	821.863	2.00	4.770	821.815	-3.75	5.890	822.935	100.00				
			-5.381	822.070	100.00	-4.780	821.470	-4.44	-3.500	821.527	-2.00	13+0.00	822.207	822.290	-0.084	3.500	821.667	2.00	4.769	821.620	-3.70	5.653	822.504	100.00				
			-5.354	821.843	100.00	-4.780	821.269	-4.42	-3.500	821.325	-2.00	13+10.00	822.005	822.003	0.003	3.500	821.465	2.00	4.768	821.419	-3.65	5.608	822.259	100.00				
			-5.431	821.719	100.00	-4.780	821.068	-4.40	-3.500	821.124	-2.00	14+0.00	821.804	821.931	-0.127	3.500	821.264	2.00	4.767	821.218	-3.60	5.702	822.153	100.00				
			-5.485	821.572	100.00	-4.779	820.867	-4.38	-3.500	820.923	-2.00	14+10.00	821.603	821.779	-0.176	3.500	821.063	2.00	4.767	821.018	-3.55	5.733	821.984	100.00				
			-5.463	821.349	100.00	-4.779	820.666	-4.36	-3.500	820.721	-2.00	15+0.00	821.401	821.529	-0.128	3.500	820.861	2.00	4.766	820.817	-3.50	5.819	821.871	100.00				
			-5.358	821.044	100.00	-4.779	820.465	-4.34	-3.500	820.520	-2.00	15+10.00	821.200	821.289	-0.089	3.500	820.660	2.00	4.765	820.616	-3.45	5.594	821.446	100.00				
			-5.310	820.795	100.00	-4.778	820.264	-4.32	-3.500	820.319	-2.00	16+0.00	820.999	820.968	0.031	3.500	820.459	2.00	4.764	820.416	-3.40	5.343	820.995	100.00				
			-5.418	820.703	100.00	-4.778	820.063	-4.29	-3.500	820.118	-2.00	16+10.00	820.798	820.886	-0.089	3.500	820.258	2.00	4.763	820.215	-3.35	5.548	820.999	100.00				
			-5.511	820.595	100.00	-4.778	819.862	-4.27	-3.500	819.916	-2.00	17+0.00	820.596	820.768	-0.172	3.500	820.056	2.00	4.763	820.015	-3.30	5.698	820.950	100.00				
			-5.521	820.405	100.00	-4.777	819.661	-4.25	-3.500	819.715	-2.00	17+10.00	820.395	820.594	-0.200	3.500	819.855	2.00	4.762	819.814	-3.25	5.735	820.787	100.00				
			-5.441	820.124	100.00	-4.777	819.460	-4.23	-3.500	819.514	-2.00	18+0.00	820.194	820.271	-0.077	3.500	819.654	2.00	4.761	819.613	-3.20	5.586	820.438	100.00				
			-5.413	819.895	100.00	-4.777	819.259	-4.21	-3.500	819.312	-2.00	18+10.00	819.992	819.999	-0.006	3.500	819.452	2.00	4.760	819.413	-3.15	5.604	820.256	100.00				
			-5.433	819.715	100.00	-4.776	819.058	-4.19	-3.500	819.111	-2.00	19+0.00	819.791	819.917	-0.126	3.500	819.251	2.00	4.760	819.212	-3.10	5.697	820.149	100.00				
			-5.462	819.543	100.00	-4.776	818.857	-4.17	-3.500	818.910	-2.00	19+10.00	819.590	819.770	-0.181	3.500	819.050	2.00	4.759	819.011	-3.05	5.703	819.955	100.00				
			-5.441	819.321	100.00	-4.776	818.656	-4.14	-3.500	818.708	-2.00	20+0.00	819.388	819.469	-0.081	3.500	818.848	2.00	4.758	818.811	-3.00	5.554	819.607	100.00				
			-5.320	818.999	100.00	-4.775	818.455	-4.12	-3.500	818.507	-2.00	20+10.00	819.187	819.127	0.060	3.500	818.647	2.00	4.757	818.610	-2.95	5.515	819.368	100.00				
			-5.381	818.860	100.00	-4.775	818.254	-4.10	-3.500	818.306	-2.00	21+0.00	818.986	818.975	0.011	3.500	818.446	2.00	4.757	818.409	-2.90	5.532	819.185	100.00				
			-5.376	818.654	100.00	-4.775	818.053	-4.08	-3.500	818.105																		

Lado Esquerdo									Eixo					Lado Direito									OBSERVAÇÃO					
OFFSET ATERRO			OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			OFFSET ATERRO			
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. (%)
			-5.269	814.292	100.00	-4.767	813.789	-3.57	-3.500	813.835	-2.00	33+10.00	814.515	814.510	0.004	3.500	813.975	2.00	4.738	813.954	-1.66	5.500	814.716	100.00				
			-5.246	814.101	100.00	-4.766	813.621	-3.55	-3.500	813.666	-2.00	34+0.00	814.346	814.313	0.034	3.500	813.806	2.00	4.738	813.786	-1.61	5.456	814.505	100.00				
			-5.315	814.003	100.00	-4.766	813.453	-3.52	-3.500	813.498	-2.00	34+10.00	814.178	814.141	0.038	3.500	813.638	2.00	4.737	813.619	-1.56	5.350	814.232	100.00				
			-5.292	813.812	100.00	-4.766	813.285	-3.50	-3.500	813.330	-2.00	35+0.00	814.010	813.983	0.027	3.500	813.470	2.00	4.736	813.451	-1.51	5.356	814.071	100.00				
			-5.224	813.576	100.00	-4.765	813.117	-3.48	-3.500	813.161	-2.00	35+10.00	813.841	813.771	0.071	3.500	813.301	2.00	4.735	813.283	-1.46	5.426	813.974	100.00				
			-5.297	813.487	100.00	-4.765	812.955	-3.46	-3.500	812.999	-2.00	36+0.00	813.679	813.688	-0.009	3.500	813.139	2.00	4.735	813.121	-1.41	5.513	813.900	100.00				
			-5.388	813.428	100.00	-4.765	812.804	-3.44	-3.500	812.848	-2.00	36+10.00	813.528	813.634	-0.106	3.500	812.988	2.00	4.734	812.971	-1.36	5.612	813.848	100.00				
			-5.424	813.324	100.00	-4.764	812.665	-3.42	-3.500	812.708	-2.00	37+0.00	813.388	813.529	-0.141	3.500	812.848	2.00	4.733	812.832	-1.31	5.647	813.745	100.00				
			-5.499	813.271	100.00	-4.764	812.536	-3.40	-3.500	812.579	-2.00	37+10.00	813.259	813.494	-0.234	3.500	812.719	2.00	4.733	812.704	-1.26	5.755	813.726	100.00				
			-5.577	813.233	100.00	-4.764	812.419	-3.37	-3.500	812.462	-2.00	38+0.00	813.142	813.431	-0.289	3.500	812.602	2.00	4.732	812.587	-1.21	5.788	813.644	100.00				
			-5.567	813.118	100.00	-4.763	812.314	-3.35	-3.500	812.356	-2.00	38+10.00	813.036	813.272	-0.236	3.500	812.496	2.00	4.731	812.482	-1.16	5.673	813.423	100.00				
			-5.545	813.002	100.00	-4.763	812.220	-3.33	-3.500	812.262	-2.00	39+0.00	812.942	813.055	-0.113	3.500	812.402	2.00	4.730	812.388	-1.11	5.551	813.209	100.00				
			-5.462	812.836	100.00	-4.763	812.137	-3.31	-3.500	812.179	-2.00	39+10.00	812.859	812.977	-0.118	3.500	812.319	2.00	4.730	812.306	-1.06	5.568	813.144	100.00				
			-5.287	812.590	100.00	-4.762	812.066	-3.29	-3.500	812.107	-2.00	40+0.00	812.787	812.815	-0.027	3.500	812.247	2.00	4.729	812.235	-1.01	5.551	813.057	100.00				
			-5.318	812.561	100.00	-4.762	812.006	-3.27	-3.500	812.047	-2.00	40+10.00	812.727	812.782	-0.055	3.500	812.187	2.00	4.728	812.175	-0.96	5.569	813.015	100.00				
			-5.357	812.547	100.00	-4.762	811.951	-3.25	-3.500	811.992	-2.00	41+0.00	812.672	812.771	-0.099	3.500	812.132	2.00	4.728	812.121	-0.91	5.611	813.005	100.00				
			-5.388	812.523	100.00	-4.762	811.897	-3.23	-3.500	811.938	-2.00	41+10.00	812.618	812.743	-0.126	3.500	812.078	2.00	4.727	812.067	-0.86	5.633	812.973	100.00				
			-5.435	812.516	100.00	-4.761	811.843	-3.20	-3.500	811.883	-2.00	42+0.00	812.563	812.751	-0.188	3.500	812.023	2.00	4.726	812.013	-0.81	5.678	812.965	100.00				
			-5.422	812.449	100.00	-4.761	811.788	-3.18	-3.500	811.828	-2.00	42+10.00	812.508	812.651	-0.142	3.500	811.968	2.00	4.726	811.959	-0.76	5.626	812.860	100.00				
			-5.447	812.420	100.00	-4.761	811.734	-3.16	-3.500	811.774	-2.00	43+0.00	812.454	812.627	-0.173	3.500	811.914	2.00	4.725	811.905	-0.71	5.654	812.834	100.00				
			-5.427	812.347	100.00	-4.760	811.679	-3.14	-3.500	811.719	-2.00	43+10.00	812.399	812.574	-0.175	3.500	811.859	2.00	4.724	811.851	-0.66	5.686	812.813	100.00				
			-5.412	812.277	100.00	-4.760	811.625	-3.12	-3.500	811.664	-2.00	44+0.00	812.344	812.520	-0.176	3.500	811.804	2.00	4.723	811.797	-0.61	5.676	812.750	100.00				
			-5.384	812.195	100.00	-4.760	811.571	-3.10	-3.500	811.610	-2.00	44+10.00	812.290	812.407	-0.117	3.500	811.750	2.00	4.723	811.743	-0.56	5.575	812.595	100.00				
			-5.381	812.138	100.00	-4.759	811.516	-3.08	-3.500	811.555	-2.00	45+0.00	812.235	812.318	-0.083	3.500	811.695	2.00	4.722	811.689	-0.51	5.521	812.488	100.00				
			-5.363	812.066	100.00	-4.759	811.462	-3.05	-3.500	811.501	-2.00	45+10.00	812.181	812.222	-0.041	3.500	811.641	2.00	4.721	811.635	-0.46	5.468	812.381	100.00				
			-5.356	812.005	100.00	-4.759	811.408	-3.03	-3.500	811.446	-2.00	46+0.00	812.126	812.152	-0.026	3.500	811.586	2.00	4.721	811.581	-0.41	5.441	812.302	100.00				
			-5.332	811.927	100.00	-4.758	811.353	-3.01	-3.500	811.391	-2.00	46+10.00	812.071	812.092	-0.021	3.500	811.531	2.00	4.720	811.527	-0.36	5.424	812.231	100.00				
			-5.311	811.852	100.00	-4.758	811.299	-2.99	-3.500	811.337	-2.00	47+0.00	812.017	811.979	0.038	3.500	811.477	2.00	4.719	811.473	-0.31	5.324	812.078	100.00				
			-5.285	811.772	100.00	-4.758	811.245	-2.97	-3.500	811.282	-2.00	47+10.00	811.962	811.901	0.061	3.500	811.422	2.00	4.719	811.419	-0.26	5.332	812.032	100.00				
			-5.276	811.709	100.00	-4.757	811.190	-2.95	-3.500	811.227	-2.00	48+0.00	811.907	811.834	0.074	3.500	811.367	2.00	4.718	811.365	-0.21	5.344	811.991	100.00				
			-5.169	811.548	100.00	-4.757	811.136	-2.93	-3.500	811.173	-2.00	48+10.00	811.853	811.711	0.142	3.500	811.313	2.00	4.717	811.311	-0.16	5.292	811.885	100.00				
			-5.161	811.485	100.00	-4.757	811.082	-2.90	-3.500	811.118	-2.00	49+0.00	811.798	811.671	0.127	3.500	811.258	2.00	4.717	811.257	-0.11	5.323	811.863	100.00				
			-5.213	811.484	100.00	-4.756	811.027	-2.88	-3.500	811.063	-2.00	49+10.00	811.743	811.685	0.059	3.500	811.203	2.00	4.716	811.203	-0.06	5.404	811.891	100.00				
			-5.232	811.449	100.00	-4.756	810.973	-2.86	-3.500	811.009	-2.00	50+0.00	811.689	811.628	0.061	3.500	811.149	2.00	4.715	811.149	-0.01	5.379	811.812	100.00				
			-5.262	811.425	100.00	-4.756	810.919	-2.84	-3.500	810.954	-2.00	50+10.00	811.634	811.601	0.033	3.500	811.094	2.00	4.714	811.095	0.04	5.383	811.763	100.00				
			-5.299	811.407	100.00	-4.755	810.864	-2.82	-3.500	810.900	-2.00	51+0.00	811.580	811.589	-0.009	3.500	811.040	2.00	4.714	811.041	0.09	5.448	811.775	100.00				
			-5.250	811.304	100.00	-4.755	810.810	-2.80	-3.500	810.845	-2.00	51+10.00	811.525	811.516	0.009	3.500	810.985	2.00	4.713	810.987	0.14	5.464	811.737	100.00				
			-5.229	811.230	100.00	-4.755	810.756	-2.78	-3.500	810.791	-2.00	52+0.00	811.471	811.429	0.042	3.500	810.931	2.00	4.712	810.933	0.19	5.352	811.573	100.00				
			-5.173	811.121	100.00	-4.754	810.703	-2.75	-3.500	810.737	-2.00	52+10.00	811.417	811.280	0.137	3.500	810.877	2.00	4.712	810.880	0.24	5.273	811.442	100.00				
			-5.199	811.095	100.00	-4.754	810.650	-2.73	-3.500	810.684	-2.00	53+0.00	811.364	811.229	0.135	3.500	810.824	2.00	4.711	810.828	0.29	5.248	811.365	100.00				
			-5.232	811.076	100.00	-4.754	810.598	-2.71	-3.500	810.632	-2.00	53+10.00	811.312	811.194	0.118	3.500	810.772	2.00	4.710	810.776	0.34	5.264	811.330	100.00				
			-5.331	811.125	100.00	-4.753	810.547	-2.69	-3.500	810.580	-2.00	54+0.00	811.260	811.252	0.009	3.500	810.720	2.00	4.710	810.725	0.39	5.346	811.361	100.00				
			-5.389	811.132	100.00	-4.753	810.496	-2.67	-3.500	810.530	-2.00	54+10.00	811.210	811.191	0.018	3.500	810.670	2.00	4.709	810.675	0.44	5.254	811.219	100.00				
			-5.314	811.007	100.00	-4.753	810.446	-2.65	-3.500	810.479	-2.00	55+0.00	811.159	811.017	0.142	3.500	810.619	2.00	4.708	810.625	0.49	5.128	811.045	100.00				
			-5.362	811.006	100.00	-4.753	810.397	-2.63																				

Lado Esquerdo									Eixo					Lado Direito									OBSERVAÇÃO					
OFFSET ATERRO			OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			OFFSET ATERRO			
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. (%)
			-5.533	810.029	100.00	-4.745	809.241	-2.09	-3.500	809.267	-2.00	68+0.00	809.947	810.020	-0.073	3.500	809.407	2.00	4.691	809.428	1.79	5.275	810.012	100.00				
			-5.535	810.024	100.00	-4.744	809.233	-2.07	-3.500	809.259	-2.00	68+10.00	809.939	810.017	-0.078	3.500	809.399	2.00	4.690	809.421	1.84	5.280	810.011	100.00				
			-5.514	810.012	100.00	-4.744	809.242	-2.05	-3.500	809.268	-2.00	69+0.00	809.948	810.013	-0.065	3.500	809.408	2.00	4.690	809.430	1.88	5.269	810.009	100.00				
			-5.477	810.000	100.00	-4.744	809.267	-2.03	-3.500	809.292	-2.00	69+10.00	809.972	810.000	-0.028	3.500	809.432	2.00	4.689	809.455	1.93	5.234	810.000	100.00				
			-5.436	810.000	100.00	-4.743	809.308	-2.01	-3.500	809.333	-2.00	70+0.00	810.013	810.000	0.012	3.500	809.473	2.00	4.689	809.496	1.98	5.192	810.000	100.00				
			-5.301	810.000	100.00	-4.725	809.424	-0.74	-3.500	809.433	-0.74	70+10.00	810.069	810.000	0.069	3.500	809.485	0.74	4.705	809.494	0.74	5.211	810.000	100.00				
			-5.118	810.000	100.00	-4.700	809.583	1.08	-3.500	809.570	1.08	71+0.00	810.142	810.000	0.142	3.500	809.494	-1.08	4.730	809.481	-1.08	5.249	810.000	100.00				
			-4.921	810.000	100.00	-4.677	809.756	2.90	-3.500	809.722	2.90	71+10.00	810.230	810.000	0.230	3.500	809.519	-2.90	4.757	809.483	-2.90	5.274	810.000	100.00				
			-4.967	810.191	100.00	-4.668	809.892	3.58	-3.500	809.850	3.58	72+0.00	810.335	810.190	0.145	3.500	809.600	-3.58	4.767	809.554	-3.58	5.375	810.162	100.00				
			-5.162	810.391	100.00	-4.691	809.921	1.76	-3.500	809.900	1.76	72+10.00	810.448	810.287	0.161	3.500	809.776	-1.76	4.740	809.754	-1.76	5.251	810.266	100.00				
			-5.476	810.510	100.00	-4.762	809.796	-3.26	-3.500	809.837	-3.26	73+0.00	810.561	810.544	0.017	3.500	810.065	3.26	4.672	810.103	3.26	5.035	810.466	100.00				
			-5.679	810.772	100.00	-4.773	809.867	-4.00	-3.500	809.917	-4.00	73+10.00	810.667	810.761	-0.094	3.500	810.197	4.00	4.663	810.244	4.00	4.994	810.574	100.00				
			-5.812	811.000	100.00	-4.773	809.962	-4.00	-3.500	810.013	-4.00	74+0.00	810.763	811.000	-0.237	3.500	810.293	4.00	4.663	810.339	4.00	5.199	810.875	100.00				
			-5.556	811.000	100.00	-4.733	810.176	-1.26	-3.500	810.192	-1.26	74+10.00	810.846	810.986	-0.140	3.500	810.280	1.26	4.698	810.295	1.26	5.220	810.817	100.00				
			-5.278	810.904	100.00	-4.707	810.334	0.56	-3.500	810.327	0.56	75+0.00	810.917	810.890	0.028	3.500	810.288	-0.56	4.723	810.281	-0.56	5.317	810.875	100.00				
			-5.090	810.885	100.00	-4.683	810.479	2.38	-3.500	810.450	2.38	75+10.00	810.977	810.861	0.116	3.500	810.284	-2.38	4.749	810.254	-2.38	5.331	810.836	100.00				
			-4.981	810.920	100.00	-4.663	810.602	4.00	-3.500	810.555	4.00	76+0.00	811.025	810.883	0.143	3.500	810.275	-4.00	4.773	810.224	-4.00	5.391	810.842	100.00				
			-4.940	810.915	100.00	-4.663	810.638	4.00	-3.500	810.591	4.00	76+10.00	811.061	810.885	0.176	3.500	810.311	-4.00	4.773	810.260	-4.00	5.356	810.843	100.00				
			-4.964	810.862	100.00	-4.685	810.583	2.29	-3.500	810.556	2.29	77+0.00	811.086	810.859	0.227	3.500	810.396	-2.29	4.748	810.367	-2.29	5.235	810.854	100.00				
			-5.096	810.899	100.00	-4.709	810.511	0.48	-3.500	810.505	0.48	77+10.00	811.098	810.926	0.173	3.500	810.472	-0.48	4.722	810.466	-0.48	5.169	810.913	100.00				
			-5.233	810.925	100.00	-4.734	810.426	-1.34	-3.500	810.442	-1.34	78+0.00	811.099	810.991	0.108	3.500	810.536	1.34	4.697	810.552	1.34	5.118	810.974	100.00				
			-5.251	810.897	100.00	-4.743	810.390	-2.00	-3.500	810.414	-2.00	78+10.00	811.094	811.001	0.093	3.500	810.554	2.00	4.688	810.578	2.00	5.114	811.003	100.00				
			-5.286	810.928	100.00	-4.743	810.385	-2.00	-3.500	810.409	-2.00	79+0.00	811.089	811.003	0.087	3.500	810.549	2.00	4.688	810.573	2.00	5.123	811.008	100.00				
			-5.306	810.942	100.00	-4.743	810.380	-2.00	-3.500	810.404	-2.00	79+10.00	811.084	811.006	0.079	3.500	810.544	2.00	4.688	810.568	2.00	5.131	811.011	100.00				
			-5.320	810.952	100.00	-4.743	810.375	-2.00	-3.500	810.400	-2.00	80+0.00	811.080	811.012	0.068	3.500	810.540	2.00	4.688	810.563	2.00	5.127	811.002	100.00				
			-5.327	810.953	100.00	-4.743	810.370	-2.00	-3.500	810.395	-2.00	80+10.00	811.075	811.023	0.052	3.500	810.535	2.00	4.688	810.558	2.00	5.128	810.998	100.00				
			-5.342	810.963	100.00	-4.743	810.365	-2.00	-3.500	810.390	-2.00	81+0.00	811.070	811.029	0.041	3.500	810.530	2.00	4.688	810.553	2.00	5.142	811.007	100.00				
			-5.372	810.988	100.00	-4.743	810.360	-2.00	-3.500	810.385	-2.00	81+10.00	811.065	811.021	0.044	3.500	810.525	2.00	4.688	810.548	2.00	5.167	811.027	100.00				
			-5.367	810.979	100.00	-4.743	810.355	-2.00	-3.500	810.380	-2.00	82+0.00	811.060	811.029	0.031	3.500	810.520	2.00	4.688	810.543	2.00	5.156	811.011	100.00				
			-5.380	810.987	100.00	-4.743	810.350	-2.00	-3.500	810.375	-2.00	82+10.00	811.055	811.039	0.016	3.500	810.515	2.00	4.688	810.538	2.00	5.152	811.002	100.00				
			-5.391	810.993	100.00	-4.743	810.345	-2.00	-3.500	810.370	-2.00	83+0.00	811.050	811.049	0.00	3.500	810.510	2.00	4.688	810.533	2.00	5.252	811.097	100.00				
			-5.425	811.022	100.00	-4.743	810.340	-2.00	-3.500	810.365	-2.00	83+10.00	811.045	811.114	-0.069	3.500	810.505	2.00	4.688	810.529	2.00	5.428	811.268	100.00				
			-5.416	811.007	100.00	-4.743	810.335	-2.00	-3.500	810.360	-2.00	84+0.00	811.040	811.179	-0.140	3.500	810.500	2.00	4.688	810.524	2.00	5.510	811.345	100.00				
			-5.450	811.036	100.00	-4.743	810.330	-2.00	-3.500	810.355	-2.00	84+10.00	811.035	811.215	-0.181	3.500	810.495	2.00	4.688	810.519	2.00	5.559	811.389	100.00				
			-5.423	811.005	100.00	-4.743	810.325	-2.00	-3.500	810.350	-2.00	85+0.00	811.030	811.214	-0.184	3.500	810.490	2.00	4.688	810.514	2.00	5.579	811.405	100.00				
			-5.411	810.988	100.00	-4.743	810.320	-2.00	-3.500	810.345	-2.00	85+10.00	811.025	811.159	-0.134	3.500	810.485	2.00	4.688	810.509	2.00	5.560	811.380	100.00				
			-5.367	810.921	100.00	-4.743	810.298	-2.00	-3.500	810.322	-2.00	86+0.00	811.002	811.089	-0.087	3.500	810.462	2.00	4.688	810.486	2.00	5.547	811.345	100.00				
			-5.123	810.620	100.00	-4.743	810.240	-2.00	-3.500	810.265	-2.00	86+10.00	810.945	811.012	-0.067	3.500	810.405	2.00	4.688	810.429	2.00	5.541	811.282	100.00				
			-5.071	810.476	100.00	-4.743	810.148	-2.00	-3.500	810.173	-2.00	87+0.00	810.853	810.940	-0.086	3.500	810.313	2.00	4.688	810.337	2.00	5.576	811.225	100.00				
			-5.160	810.439	100.00	-4.743	810.022	-2.00	-3.500	810.047	-2.00	87+10.00	810.727	810.792	-0.066	3.500	810.187	2.00	4.688	810.210	2.00	5.498	811.020	100.00				
			-5.177	810.294	100.00	-4.743	809.860	-2.00	-3.500	809.885	-2.00	88+0.00	810.565	810.562	0.003	3.500	810.025	2.00	4.688	810.049	2.00	5.485	810.846	100.00				
			-5.193	810.114	100.00	-4.743	809.664	-2.00	-3.500	809.689	-2.00	88+10.00	810.369	810.414	-0.045	3.500	809.829	2.00	4.688	809.852	2.00	5.570	810.734	100.00				
			-4.943	809.632	100.00	-4.743	809.433	-2.00	-3.500	809.458	-2.00	89+0.00	810.138	810.037	0.100	3.500	809.598	2.00	4.688	809.621	2.00	5.437	810.370	100.00				
			-5.096	809.520	100.00	-4.743	809.167	-2.00	-3.500	809.192	-2.00	89+10.00	809.872	809.819	0.052	3.500	809.332	2.00	4.688	809.355	2.00	5.466	810.133	100.00				
			-5.254	809.377	100.00	-4.743	808.866	-2.																				

Lado Esquerdo									Eixo					Lado Direito									OBSERVAÇÃO					
OFFSET ATERRO			OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			OFFSET ATERRO			
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. (%)
			-5.684	800.303	100.00	-4.663	799.282	4.00	-3.500	799.236	4.00	101+0.00	799.706	799.911	-0.205	3.500	798.956	-4.00	4.773	798.905	-4.00	5.179	799.311	100.00				
			-5.759	799.790	100.00	-4.663	798.694	4.00	-3.500	798.648	4.00	101+10.00	799.118	799.499	-0.381	3.500	798.368	-4.00	4.773	798.317	-4.00	5.431	798.974	100.00				
			-5.749	799.192	100.00	-4.663	798.106	4.00	-3.500	798.059	4.00	102+0.00	798.529	799.020	-0.490	3.500	797.779	-4.00	4.773	797.728	-4.00	5.816	798.771	100.00				
			-5.652	798.443	100.00	-4.677	797.468	2.92	-3.500	797.433	2.92	102+10.00	797.941	798.368	-0.427	3.500	797.229	-2.92	4.757	797.192	-2.92	5.907	798.342	100.00				
			-5.399	797.646	100.00	-4.597	796.845	1.10	-3.500	796.833	1.10	103+0.00	797.334	797.690	-0.356	3.500	796.756	-1.10	4.624	796.743	-1.10	5.549	797.668	100.00				
			-5.435	796.932	100.00	-4.619	796.116	-0.72	-3.500	796.124	-0.72	103+10.00	796.689	796.981	-0.292	3.500	796.175	0.72	4.601	796.183	0.72	5.437	797.018	100.00				
			-5.341	796.078	100.00	-4.635	795.373	-2.03	-3.500	795.396	-2.03	104+0.00	796.007	796.228	-0.221	3.500	795.538	2.03	4.586	795.560	2.03	5.407	796.381	100.00				
			-5.283	795.294	100.00	-4.637	794.648	-2.14	-3.500	794.672	-2.14	104+10.00	795.287	795.485	-0.198	3.500	794.822	2.14	4.585	794.845	2.14	5.436	795.696	100.00				
			-5.240	794.487	100.00	-4.638	793.885	-2.24	-3.500	793.911	-2.24	105+0.00	794.529	794.686	-0.156	3.500	794.068	2.24	4.584	794.092	2.24	5.388	794.897	100.00				
			-5.149	793.595	100.00	-4.640	793.085	-2.35	-3.500	793.112	-2.35	105+10.00	793.734	793.842	-0.108	3.500	793.276	2.35	4.582	793.302	2.35	5.351	794.070	100.00				
			-5.133	792.740	100.00	-4.641	792.247	-2.45	-3.500	792.275	-2.45	106+0.00	792.901	792.978	-0.077	3.500	792.447	2.45	4.581	792.473	2.45	5.323	793.215	100.00				
			-5.054	791.784	100.00	-4.642	791.372	-2.56	-3.500	791.401	-2.56	106+10.00	792.031	792.075	-0.044	3.500	791.580	2.56	4.580	791.608	2.56	5.275	792.302	100.00				
			-5.058	790.873	100.00	-4.644	790.459	-2.66	-3.500	790.489	-2.66	107+0.00	791.122	791.138	-0.016	3.500	790.675	2.66	4.579	790.704	2.66	5.253	791.379	100.00				
			-5.109	789.972	100.00	-4.645	789.508	-2.76	-3.500	789.540	-2.76	107+10.00	790.176	790.240	-0.063	3.500	789.733	2.76	4.578	789.763	2.76	5.301	790.486	100.00				
			-5.131	789.023	100.00	-4.646	788.538	-2.87	-3.500	788.571	-2.87	108+0.00	789.212	789.324	-0.113	3.500	788.772	2.87	4.577	788.803	2.87	5.287	789.513	100.00				
			-5.367	788.288	100.00	-4.648	787.569	-2.97	-3.500	787.603	-2.97	108+10.00	788.247	788.422	-0.175	3.500	787.811	2.97	4.575	787.843	2.97	5.351	788.619	100.00				
			-5.302	787.252	100.00	-4.649	786.599	-3.08	-3.500	786.635	-3.08	109+0.00	787.282	787.478	-0.196	3.500	786.850	3.08	4.574	786.883	3.08	5.434	787.743	100.00				
			-5.250	786.229	100.00	-4.651	785.630	-3.18	-3.500	785.666	-3.18	109+10.00	786.318	786.546	-0.228	3.500	785.889	3.18	4.573	785.923	3.18	5.444	786.794	100.00				
			-5.171	785.179	100.00	-4.652	784.660	-3.29	-3.500	784.698	-3.29	110+0.00	785.353	785.622	-0.269	3.500	784.928	3.29	4.572	784.963	3.29	5.498	785.890	100.00				
			-5.046	784.082	100.00	-4.653	783.690	-3.39	-3.500	783.729	-3.39	110+10.00	784.388	784.569	-0.181	3.500	783.967	3.39	4.571	784.003	3.39	5.545	784.978	100.00				
			-5.139	783.204	100.00	-4.655	782.721	-3.50	-3.500	782.761	-3.50	111+0.00	783.424	783.679	-0.255	3.500	783.006	3.50	4.570	783.043	3.50	5.558	784.032	100.00				
			-5.145	782.239	100.00	-4.656	781.751	-3.60	-3.500	781.793	-3.60	111+10.00	782.459	782.725	-0.266	3.500	782.045	3.60	4.568	782.083	3.60	5.646	783.161	100.00				
			-5.113	781.295	100.00	-4.658	780.840	-3.71	-3.500	780.883	-3.71	112+0.00	781.552	781.943	-0.390	3.500	781.142	3.71	4.567	781.182	3.71	5.526	782.140	100.00				
			-5.235	780.620	100.00	-4.659	780.045	-3.81	-3.500	780.089	-3.81	112+10.00	780.762	781.138	-0.375	3.500	780.356	3.81	4.566	780.396	3.81	5.409	781.239	100.00				
			-5.299	780.005	100.00	-4.661	779.366	-3.92	-3.500	779.411	-3.92	113+0.00	780.089	780.438	-0.349	3.500	779.686	3.92	4.565	779.727	3.92	5.281	780.443	100.00				
			-5.248	779.512	100.00	-4.635	778.899	-2.00	-3.500	778.921	-2.00	113+10.00	779.531	779.886	-0.354	3.500	779.061	2.00	4.586	779.083	2.00	5.235	779.731	100.00				
			-5.372	779.075	100.00	-4.662	778.364	-4.00	-3.500	778.411	-4.00	114+0.00	779.091	779.087	0.003	3.500	778.690	4.00	4.564	778.733	3.99	4.570	778.739	100.00				
			-5.206	778.585	100.00	-4.662	778.041	-4.03	-3.500	778.088	-3.95	114+10.00	778.766	778.834	-0.068	3.500	778.364	3.95	4.567	778.405	3.77				4.763	778.274	-66.67	
			-4.922	778.094	100.00	-4.662	777.835	-4.05	-3.500	777.882	-3.90	115+0.00	778.558	778.108	0.451	3.500	778.155	3.90	4.569	778.193	3.55				4.610	778.165	-66.67	
			-4.968	778.049	100.00	-4.663	777.744	-4.07	-3.500	777.792	-3.85	115+10.00	778.467	778.058	0.408	3.500	778.062	3.85	4.571	778.097	3.34				4.707	778.007	-66.67	
			-4.968	778.016	100.00	-4.663	777.711	-4.07	-3.500	777.758	-3.85	116+0.00	778.433	775.452	2.981	3.500	778.028	3.85	4.571	778.064	3.34				4.707	777.973	-66.67	
			-4.968	777.983	100.00	-4.663	777.678	-4.07	-3.500	777.725	-3.85	116+10.00	778.400	768.936	9.464	3.500	777.995	3.85	4.571	778.031	3.34				4.707	777.940	-66.67	
			-4.968	777.949	100.00	-4.663	777.644	-4.07	-3.500	777.692	-3.85	117+0.00	778.367	775.517	2.850	3.500	777.962	3.85	4.571	777.997	3.34				4.707	777.907	-66.67	
			-4.968	777.916	100.00	-4.663	777.611	-4.07	-3.500	777.658	-3.85	117+10.00	778.333	778.004	0.329	3.500	777.928	3.85	4.571	777.964	3.34				4.707	777.873	-66.67	
			-5.021	778.001	100.00	-4.664	777.645	-4.19	-3.500	777.693	-3.61	118+0.00	778.360	778.030	0.330	3.500	777.946	3.61	4.584	777.970	2.25	4.593	777.980	100.00				
			-4.933	778.060	100.00	-4.665	777.792	-4.22	-3.500	777.841	-3.56	118+10.00	778.506	778.107	0.398	3.500	778.090	3.56	4.586	778.112	2.03				4.698	778.038	-66.67	
			-5.574	778.968	100.00	-4.665	778.059	-4.24	-3.500	778.108	-3.51	119+0.00	778.771	778.913	-0.142	3.500	778.354	3.51	4.589	778.374	1.81	4.997	778.783	100.00				
			-5.392	779.171	100.00	-4.665	778.445	-4.27	-3.500	778.495	-3.47	119+10.00	779.156	779.252	-0.096	3.500	778.737	3.47	4.591	778.755	1.59	4.968	779.131	100.00				
			-5.730	780.015	100.00	-4.666	778.951	-4.29	-3.500	779.001	-3.42	120+0.00	779.660	780.055	-0.395	3.500	779.240	3.42	4.594	779.255	1.37	5.113	779.774	100.00				
			-5.824	780.734	100.00	-4.666	779.576	-4.32	-3.500	779.626	-3.37	120+10.00	780.284	780.753	-0.469	3.500	779.862	3.37	4.596	779.875	1.16	5.004	780.282	100.00				
			-5.951	781.605	100.00	-4.666	780.321	-4.34	-3.500	780.371	-3.32	121+0.00	781.028	781.393	-0.365	3.500	780.604	3.32	4.599	780.614	0.94	5.109	781.124	100.00				
			-5.818	782.336	100.00	-4.667	781.185	-4.36	-3.500	781.236	-3.27	121+10.00	781.891	782.194	-0.304	3.500	781.465	3.27	4.601	781.473	0.72	5.205	782.076	100.00				
			-5.541	782.983	100.00	-4.667	782.109	-4.39	-3.500	782.160	-3.22	122+0.00	782.813	782.963	-0.150	3.500	782.386	3.22	4.604	782.391	0.50	5.245	783.032	100.00				
			-5.498	783.863	100.00	-4.667	783.033	-4.41	-3.500	783.085	-3.17	122+10.00	783.736	783.754	-0.018	3.500	783.307	3.17	4.607	783.310	0.28	5.008	783.711	100.00				
			-5.365	784.654																								

Lado Esquerdo									Eixo					Lado Direito									OBSERVAÇÃO					
OFFSET ATERRO			OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			OFFSET ATERRO			
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. (%)
			-4.601	813.595	100.00	-4.564	813.558	3.98	-3.500	813.516	4.00	33+10.00	813.916	813.725	0.191	3.500	813.236	-4.00	4.662	813.190	-4.00	5.361	813.888	100.00				
			-4.790	813.513	100.00	-4.586	813.310	2.00	-3.500	813.288	2.00	34+0.00	813.758	813.668	0.090	3.500	813.148	-2.00	4.635	813.125	-2.00	5.352	813.842	100.00				
			-4.775	813.425	100.00	-4.572	813.222	3.32	-3.500	813.186	3.32	34+10.00	813.610	813.587	0.023	3.500	812.954	-3.32	4.653	812.915	-3.32	5.510	813.773	100.00				
			-4.965	813.395	100.00	-4.588	813.019	1.89	-3.500	812.998	1.89	35+0.00	813.472	813.581	-0.109	3.500	812.866	-1.89	4.634	812.845	-1.89	5.578	813.789	100.00				
			-4.950	813.149	100.00	-4.609	812.808	0.07	-3.500	812.807	0.07	35+10.00	813.345	813.367	-0.022	3.500	812.802	-0.07	4.611	812.801	-0.07	5.376	813.567	100.00				
			-5.199	813.038	100.00	-4.662	812.501	-4.00	-3.500	812.547	-4.00	36+0.00	813.227	813.240	-0.013	3.500	812.827	4.00	4.564	812.870	4.00	5.130	813.436	100.00				
			-5.266	812.998	100.00	-4.662	812.394	-4.00	-3.500	812.440	-4.00	36+10.00	813.120	813.194	-0.074	3.500	812.720	4.00	4.564	812.763	4.00	5.198	813.396	100.00				
			-5.115	812.966	100.00	-4.615	812.466	-0.37	-3.500	812.470	-0.37	37+0.00	813.023	813.160	-0.137	3.500	812.496	0.37	4.606	812.500	0.37	5.460	813.355	100.00				
			-5.114	812.997	100.00	-4.590	812.473	1.68	-3.500	812.455	1.68	37+10.00	812.936	813.028	-0.092	3.500	812.337	-1.68	4.631	812.319	-1.68	5.551	813.238	100.00				
			-5.177	813.002	100.00	-4.586	812.411	2.00	-3.500	812.390	2.00	38+0.00	812.860	813.020	-0.160	3.500	812.250	-2.00	4.635	812.227	-2.00	5.649	813.241	100.00				
			-5.041	812.794	100.00	-4.586	812.340	2.00	-3.500	812.318	2.00	38+10.00	812.788	812.973	-0.185	3.500	812.178	-2.00	4.635	812.155	-2.00	5.636	813.156	100.00				
			-4.643	812.325	100.00	-4.586	812.268	2.00	-3.500	812.247	2.00	39+0.00	812.717	812.685	0.031	3.500	812.107	-2.00	4.635	812.084	-2.00	5.565	813.013	100.00				
			-4.706	812.317	100.00	-4.586	812.197	2.00	-3.500	812.175	2.00	39+10.00	812.645	812.762	-0.117	3.500	812.035	-2.00	4.635	812.012	-2.00	5.623	813.001	100.00				
			-4.696	812.235	100.00	-4.586	812.125	2.00	-3.500	812.103	2.00	40+0.00	812.573	812.515	0.058	3.500	811.963	-2.00	4.635	811.941	-2.00	5.337	812.642	100.00				
			-4.624	812.091	100.00	-4.586	812.054	2.00	-3.500	812.032	2.00	40+10.00	812.502	812.290	0.212	3.500	811.892	-2.00	4.635	811.869	-2.00	5.282	812.516	100.00				
			-4.684	812.080	100.00	-4.586	811.982	2.00	-3.500	811.960	2.00	41+0.00	812.430	812.276	0.155	3.500	811.820	-2.00	4.635	811.798	-2.00	5.336	812.499	100.00				
			-4.727	812.052	100.00	-4.586	811.911	2.00	-3.500	811.889	2.00	41+10.00	812.359	812.250	0.109	3.500	811.749	-2.00	4.635	811.726	-2.00	5.382	812.473	100.00				
			-4.788	812.041	100.00	-4.586	811.839	2.00	-3.500	811.817	2.00	42+0.00	812.287	812.247	0.041	3.500	811.677	-2.00	4.635	811.655	-2.00	5.462	812.481	100.00				
			-4.853	812.034	100.00	-4.586	811.768	2.00	-3.500	811.746	2.00	42+10.00	812.216	812.243	-0.027	3.500	811.606	-2.00	4.635	811.583	-2.00	5.506	812.454	100.00				
			-4.905	812.015	100.00	-4.586	811.696	2.00	-3.500	811.674	2.00	43+0.00	812.144	812.199	-0.055	3.500	811.534	-2.00	4.635	811.512	-2.00	5.530	812.407	100.00				
			-4.927	811.965	100.00	-4.586	811.625	2.00	-3.500	811.603	2.00	43+10.00	812.073	812.143	-0.070	3.500	811.463	-2.00	4.635	811.440	-2.00	5.539	812.344	100.00				
			-4.867	811.834	100.00	-4.586	811.553	2.00	-3.500	811.531	2.00	44+0.00	812.001	812.024	-0.023	3.500	811.391	-2.00	4.635	811.369	-2.00	5.533	812.267	100.00				
			-4.888	811.783	100.00	-4.586	811.482	2.00	-3.500	811.460	2.00	44+10.00	811.930	811.967	-0.037	3.500	811.320	-2.00	4.635	811.297	-2.00	5.522	812.184	100.00				
			-4.913	811.736	100.00	-4.586	811.410	2.00	-3.500	811.388	2.00	45+0.00	811.858	811.916	-0.058	3.500	811.248	-2.00	4.635	811.226	-2.00	5.531	812.122	100.00				
			-4.972	811.724	100.00	-4.586	811.338	2.00	-3.500	811.317	2.00	45+10.00	811.787	811.899	-0.112	3.500	811.177	-2.00	4.635	811.154	-2.00	5.571	812.090	100.00				
			-4.869	811.550	100.00	-4.586	811.267	2.00	-3.500	811.245	2.00	46+0.00	811.715	811.704	0.011	3.500	811.105	-2.00	4.635	811.083	-2.00	5.559	812.007	100.00				
			-4.700	811.309	100.00	-4.586	811.195	2.00	-3.500	811.174	2.00	46+10.00	811.644	811.591	0.053	3.500	811.034	-2.00	4.635	811.011	-2.00	5.548	811.924	100.00				
			-4.809	811.347	100.00	-4.586	811.124	2.00	-3.500	811.102	2.00	47+0.00	811.572	811.540	0.032	3.500	810.962	-2.00	4.635	810.939	-2.00	5.464	811.768	100.00				
			-5.063	811.529	100.00	-4.586	811.052	2.00	-3.500	811.031	2.00	47+10.00	811.501	811.658	-0.158	3.500	810.891	-2.00	4.635	810.868	-2.00	5.556	811.789	100.00				
			-5.065	811.459	100.00	-4.586	810.981	2.00	-3.500	810.959	2.00	48+0.00	811.429	811.582	-0.153	3.500	810.819	-2.00	4.635	810.796	-2.00	5.556	811.717	100.00				
			-5.027	811.350	100.00	-4.586	810.909	2.00	-3.500	810.888	2.00	48+10.00	811.358	811.469	-0.112	3.500	810.748	-2.00	4.635	810.725	-2.00	5.506	811.596	100.00				
			-4.886	811.140	100.00	-4.586	810.840	2.00	-3.500	810.818	2.00	49+0.00	811.288	811.287	0.001	3.500	810.678	-2.00	4.635	810.655	-2.00	5.428	811.448	100.00				
			-4.847	811.035	100.00	-4.586	810.774	2.00	-3.500	810.753	2.00	49+10.00	811.223	811.215	0.008	3.500	810.613	-2.00	4.635	810.590	-2.00	5.464	811.419	100.00				
			-4.907	811.034	100.00	-4.586	810.713	2.00	-3.500	810.691	2.00	50+0.00	811.161	811.221	-0.059	3.500	810.551	-2.00	4.635	810.529	-2.00	5.538	811.432	100.00				
			-4.948	811.017	100.00	-4.586	810.656	2.00	-3.500	810.634	2.00	50+10.00	811.104	811.190	-0.086	3.500	810.494	-2.00	4.635	810.471	-2.00	5.543	811.380	100.00				
			-4.998	811.015	100.00	-4.586	810.603	2.00	-3.500	810.581	2.00	51+0.00	811.051	811.189	-0.138	3.500	810.441	-2.00	4.635	810.418	-2.00	5.602	811.385	100.00				
			-5.027	810.995	100.00	-4.586	810.554	2.00	-3.500	810.532	2.00	51+10.00	811.002	811.121	-0.119	3.500	810.392	-2.00	4.635	810.369	-2.00	5.575	811.309	100.00				
			-4.952	810.874	100.00	-4.586	810.509	2.00	-3.500	810.487	2.00	52+0.00	810.957	811.003	-0.046	3.500	810.347	-2.00	4.635	810.324	-2.00	5.537	811.226	100.00				
			-4.878	810.760	100.00	-4.586	810.468	2.00	-3.500	810.446	2.00	52+10.00	810.916	810.917	-0.001	3.500	810.306	-2.00	4.635	810.283	-2.00	5.495	811.144	100.00				
			-4.709	810.553	100.00	-4.586	810.431	2.00	-3.500	810.409	2.00	53+0.00	810.879	810.833	0.046	3.500	810.269	-2.00	4.635	810.247	-2.00	5.471	811.083	100.00				
			-4.602	810.414	100.00	-4.586	810.398	2.00	-3.500	810.377	2.00	53+10.00	810.847	810.782	0.065	3.500	810.237	-2.00	4.635	810.214	-2.00	5.484	811.062	100.00				
			-4.804	810.585	100.00	-4.586	810.368	2.00	-3.500	810.346	2.00	54+0.00	810.816	810.863	-0.048	3.500	810.206	-2.00	4.635	810.183	-2.00	5.504	811.052	100.00				
			-4.993	810.744	100.00	-4.586	810.337	2.00	-3.500	810.315	2.00	54+10.00	810.785	811.005	-0.220	3.500	810.175	-2.00	4.635	810.152	-2.00	5.595	811.113	100.00				
			-5.126	810.846	100.00	-4.586	810.306	2.00	-3.500	810.284	2.00	55+0.00	810.754	810.999	-0.245	3.500	810.144	-2.00	4.635	810.122	-2.00	5.609	811.096	100.00				
			-5.146	810.835	100.00	-4.586	810.275	2.00	-																			

Lado Esquerdo									Eixo					Lado Direito									OBSERVAÇÃO					
OFFSET ATERRO			OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			OFFSET ATERRO			
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. (%)
			-5.102	810.053	100.00	-4.586	809.538	2.00	-3.500	809.516	2.00	68+0.00	809.986	810.044	-0.059	3.500	809.376	-2.00	4.635	809.353	-2.00	5.317	810.035	100.00				
			-5.088	810.046	100.00	-4.586	809.544	2.00	-3.500	809.522	2.00	68+10.00	809.992	810.037	-0.045	3.500	809.382	-2.00	4.635	809.359	-2.00	5.305	810.029	100.00				
			-5.059	810.037	100.00	-4.586	809.565	2.00	-3.500	809.543	2.00	69+0.00	810.013	810.031	-0.018	3.500	809.403	-2.00	4.635	809.380	-2.00	5.280	810.025	100.00				
			-4.986	810.000	100.00	-4.586	809.600	2.00	-3.500	809.579	2.00	69+10.00	810.049	810.000	0.048	3.500	809.439	-2.00	4.635	809.416	-2.00	5.219	810.000	100.00				
			-4.936	810.000	100.00	-4.586	809.651	2.00	-3.500	809.629	2.00	70+0.00	810.099	810.000	0.099	3.500	809.489	-2.00	4.635	809.466	-2.00	5.169	810.000	100.00				
			-4.871	810.000	100.00	-4.586	809.716	2.00	-3.500	809.694	2.00	70+10.00	810.164	810.000	0.164	3.500	809.554	-2.00	4.635	809.532	-2.00	5.104	810.000	100.00				
			-4.791	810.000	100.00	-4.586	809.796	2.00	-3.500	809.774	2.00	71+0.00	810.244	810.000	0.244	3.500	809.634	-2.00	4.635	809.612	-2.00	5.024	810.000	100.00				
			-4.696	810.000	100.00	-4.586	809.891	2.00	-3.500	809.869	2.00	71+10.00	810.339	810.000	0.339	3.500	809.729	-2.00	4.635	809.707	-2.00	4.929	810.000	100.00				
						-4.586	810.000	2.00	-3.500	809.979	2.00	72+0.00	810.449	810.007	0.441	3.500	809.839	-2.00	4.635	809.816	-2.00	4.839	810.020	100.00				
			-4.652	810.183	100.00	-4.586	810.117	2.00	-3.500	810.096	2.00	72+10.00	810.566	810.208	0.358	3.500	809.956	-2.00	4.635	809.933	-2.00	4.936	810.234	100.00				
			-4.738	810.380	100.00	-4.586	810.227	2.00	-3.500	810.206	2.00	73+0.00	810.676	810.404	0.271	3.500	810.066	-2.00	4.635	810.043	-2.00	5.023	810.431	100.00				
			-4.838	810.576	100.00	-4.586	810.324	2.00	-3.500	810.302	2.00	73+10.00	810.772	810.601	0.171	3.500	810.162	-2.00	4.635	810.139	-2.00	5.110	810.615	100.00				
			-4.952	810.772	100.00	-4.586	810.406	2.00	-3.500	810.385	2.00	74+0.00	810.855	810.789	0.065	3.500	810.245	-2.00	4.635	810.222	-2.00	5.198	810.785	100.00				
			-5.074	810.963	100.00	-4.586	810.475	2.00	-3.500	810.453	2.00	74+10.00	810.923	810.981	-0.058	3.500	810.313	-2.00	4.635	810.291	-2.00	5.292	810.948	100.00				
			-5.056	811.000	100.00	-4.586	810.530	2.00	-3.500	810.508	2.00	75+0.00	810.978	810.992	-0.014	3.500	810.368	-2.00	4.635	810.346	-2.00	5.216	810.927	100.00				
			-5.015	811.000	100.00	-4.586	810.572	2.00	-3.500	810.550	2.00	75+10.00	811.020	810.997	0.023	3.500	810.410	-2.00	4.635	810.387	-2.00	5.177	810.929	100.00				
			-4.987	811.000	100.00	-4.586	810.599	2.00	-3.500	810.577	2.00	76+0.00	811.047	810.993	0.054	3.500	810.437	-2.00	4.635	810.415	-2.00	5.179	810.959	100.00				
			-4.927	810.953	100.00	-4.586	810.613	2.00	-3.500	810.591	2.00	76+10.00	811.061	810.941	0.120	3.500	810.451	-2.00	4.635	810.429	-2.00	5.141	810.935	100.00				
			-4.890	810.917	100.00	-4.586	810.613	2.00	-3.500	810.591	2.00	77+0.00	811.061	810.890	0.172	3.500	810.451	-2.00	4.635	810.429	-2.00	5.080	810.874	100.00				
			-4.958	810.971	100.00	-4.586	810.599	2.00	-3.500	810.578	2.00	77+10.00	811.048	810.942	0.106	3.500	810.438	-2.00	4.635	810.415	-2.00	5.088	810.867	100.00				
			-5.008	811.000	100.00	-4.586	810.579	2.00	-3.500	810.557	2.00	78+0.00	811.027	810.957	0.070	3.500	810.417	-2.00	4.635	810.394	-2.00	5.127	810.887	100.00				
			-5.028	811.000	100.00	-4.586	810.558	2.00	-3.500	810.537	2.00	78+10.00	811.007	810.990	0.016	3.500	810.397	-2.00	4.635	810.374	-2.00	5.169	810.908	100.00				
			-5.049	811.000	100.00	-4.586	810.538	2.00	-3.500	810.516	2.00	79+0.00	810.986	811.000	-0.014	3.500	810.376	-2.00	4.635	810.353	-2.00	5.219	810.937	100.00				
			-5.050	810.981	100.00	-4.586	810.517	2.00	-3.500	810.496	2.00	79+10.00	810.966	811.000	-0.034	3.500	810.356	-2.00	4.635	810.333	-2.00	5.225	810.923	100.00				
			-4.737	810.647	100.00	-4.586	810.497	2.00	-3.500	810.475	2.00	80+0.00	810.945	810.789	0.156	3.500	810.335	-2.00	4.635	810.312	-2.00	5.246	810.924	100.00				
			-4.851	810.741	100.00	-4.586	810.476	2.00	-3.500	810.454	2.00	80+10.00	810.924	810.932	-0.007	3.500	810.314	-2.00	4.635	810.292	-2.00	5.277	810.934	100.00				
			-5.040	810.909	100.00	-4.586	810.456	2.00	-3.500	810.434	2.00	81+0.00	810.904	811.000	-0.096	3.500	810.294	-2.00	4.635	810.271	-2.00	5.309	810.945	100.00				
			-5.092	810.941	100.00	-4.586	810.435	2.00	-3.500	810.413	2.00	81+10.00	810.883	811.000	-0.117	3.500	810.273	-2.00	4.635	810.251	-2.00	5.341	810.957	100.00				
			-5.028	810.856	100.00	-4.586	810.415	2.00	-3.500	810.393	2.00	82+0.00	810.863	810.988	-0.125	3.500	810.253	-2.00	4.635	810.230	-2.00	5.376	810.971	100.00				
			-4.928	810.736	100.00	-4.586	810.394	2.00	-3.500	810.372	2.00	82+10.00	810.842	810.898	-0.055	3.500	810.232	-2.00	4.635	810.210	-2.00	5.404	810.979	100.00				
			-4.912	810.699	100.00	-4.586	810.374	2.00	-3.500	810.352	2.00	83+0.00	810.822	810.868	-0.046	3.500	810.212	-2.00	4.635	810.189	-2.00	5.440	810.994	100.00				
			-4.830	810.597	100.00	-4.586	810.353	2.00	-3.500	810.331	2.00	83+10.00	810.801	810.881	-0.080	3.500	810.191	-2.00	4.635	810.169	-2.00	5.467	811.000	100.00				
			-4.837	810.583	100.00	-4.586	810.332	2.00	-3.500	810.311	2.00	84+0.00	810.781	810.847	-0.067	3.500	810.171	-2.00	4.635	810.148	-2.00	5.479	810.992	100.00				
			-4.886	810.612	100.00	-4.586	810.312	2.00	-3.500	810.290	2.00	84+10.00	810.760	810.902	-0.142	3.500	810.150	-2.00	4.635	810.128	-2.00	5.507	810.999	100.00				
			-4.882	810.587	100.00	-4.586	810.291	2.00	-3.500	810.270	2.00	85+0.00	810.740	810.843	-0.103	3.500	810.130	-2.00	4.635	810.107	-2.00	5.530	811.002	100.00				
			-5.292	810.976	100.00	-4.586	810.271	2.00	-3.500	810.249	2.00	85+10.00	810.719	810.994	-0.275	3.500	810.109	-2.00	4.635	810.086	-2.00	5.537	810.988	100.00				
			-5.355	811.000	100.00	-4.586	810.232	2.00	-3.500	810.210	2.00	86+0.00	810.680	810.987	-0.307	3.500	810.070	-2.00	4.635	810.047	-2.00	5.560	810.972	100.00				
			-4.852	810.421	100.00	-4.586	810.156	2.00	-3.500	810.134	2.00	86+10.00	810.604	810.420	0.184	3.500	809.994	-2.00	4.635	809.971	-2.00	5.197	810.533	100.00				
-5.235	809.610	-66.67				-4.586	810.043	2.00	-3.500	810.021	2.00	87+0.00	810.491	809.975	0.516	3.500	809.881	-2.00	4.635	809.858	-2.00	5.134	810.357	100.00				
-5.408	809.345	-66.67				-4.586	809.893	2.00	-3.500	809.871	2.00	87+10.00	810.341	809.965	0.376	3.500	809.731	-2.00	4.635	809.708	-2.00	5.273	810.346	100.00				
-5.304	809.227	-66.67				-4.586	809.706	2.00	-3.500	809.684	2.00	88+0.00	810.154	809.872	0.282	3.500	809.544	-2.00	4.635	809.521	-2.00	5.423	810.309	100.00				
			-4.870	809.765	100.00	-4.586	809.481	2.00	-3.500	809.460	2.00	88+10.00	809.930	810.014	-0.084	3.500	809.320	-2.00	4.635	809.297	-2.00	5.471	810.133	100.00				
-5.015	808.935	-66.67				-4.586	809.220	2.00	-3.500	809.199	2.00	89+0.00	809.669	809.337	0.332	3.500	809.059	-2.00	4.635	809.036	-2.00	5.302	809.703	100.00				
-5.289	808.454	-66.67				-4.586	808.922	2.00	-3.500	808.901	2.00	89+10.00	809.371	809.053	0.318	3.500	808.761	-2.00	4.635	808.738	-2.00	5.302	809.405	100.00				
-5.490	807.985	-66.67				-4.586	808.587	2.00	-3.500	808.565																		

Lado Esquerdo									Eixo					Lado Direito									OBSERVAÇÃO					
OFFSET ATERRO			OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET CORTE			OFFSET ATERRO			
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. (%)
			-6.010	796.411	100.00	-4.586	794.987	2.00	-3.500	794.965	2.00	102+10.00	795.435	795.979	-0.544	3.500	794.825	-2.00	4.635	794.802	-2.00	5.748	795.916	100.00				
			-5.788	795.490	100.00	-4.586	794.288	2.00	-3.500	794.267	2.00	103+0.00	794.737	795.210	-0.473	3.500	794.127	-2.00	4.635	794.104	-2.00	5.652	795.121	100.00				
			-6.028	795.009	100.00	-4.586	793.567	2.00	-3.500	793.546	2.00	103+10.00	794.016	794.342	-0.326	3.500	793.406	-2.00	4.635	793.383	-2.00	5.535	794.283	100.00				
			-5.936	794.174	100.00	-4.586	792.824	2.00	-3.500	792.802	2.00	104+0.00	793.272	793.566	-0.294	3.500	792.662	-2.00	4.635	792.639	-2.00	5.318	793.322	100.00				
			-5.717	793.188	100.00	-4.586	792.058	2.00	-3.500	792.036	2.00	104+10.00	792.506	792.521	-0.015	3.500	791.896	-2.00	4.635	791.873	-2.00	5.180	792.418	100.00				
			-5.833	792.515	100.00	-4.586	791.269	2.00	-3.500	791.247	2.00	105+0.00	791.717	791.748	-0.031	3.500	791.107	-2.00	4.635	791.084	-2.00	5.065	791.515	100.00				
			-5.898	791.769	100.00	-4.586	790.457	2.00	-3.500	790.436	2.00	105+10.00	790.906	790.772	0.133	3.500	790.296	-2.00	4.635	790.273	-2.00	5.021	790.659	100.00				
			-5.667	790.704	100.00	-4.586	789.623	2.00	-3.500	789.601	2.00	106+0.00	790.071	789.907	0.164	3.500	789.461	-2.00	4.635	789.439	-2.00	4.907	789.711	100.00				
			-5.526	789.706	100.00	-4.586	788.766	2.00	-3.500	788.745	2.00	106+10.00	789.215	789.202	0.013	3.500	788.605	-2.00	4.635	788.582	-2.00	5.006	788.953	100.00				
			-5.439	788.740	100.00	-4.586	787.887	2.00	-3.500	787.865	2.00	107+0.00	788.335	788.135	0.201	3.500	787.725	-2.00	4.635	787.703	-2.00	4.992	788.060	100.00				
			-5.435	787.834	100.00	-4.586	786.985	2.00	-3.500	786.963	2.00	107+10.00	787.433	787.324	0.109	3.500	786.823	-2.00	4.635	786.801	-2.00	4.885	787.051	100.00				
			-5.535	787.021	100.00	-4.586	786.072	2.00	-3.500	786.050	2.00	108+0.00	786.520	785.933	0.587	3.500	785.910	-2.00	4.635	785.887	-2.00							
			-5.355	785.927	100.00	-4.586	785.158	2.00	-3.500	785.137	2.00	108+10.00	785.607	784.746	0.861	3.500	784.997	-2.00	4.635	784.974	-2.00				4.974	784.748	-66.67	
			-5.069	784.728	100.00	-4.586	784.245	2.00	-3.500	784.223	2.00	109+0.00	784.693	783.572	1.122	3.500	784.083	-2.00	4.635	784.061	-2.00				5.214	783.674	-66.67	
-5.249	782.890	-66.67				-4.586	783.332	2.00	-3.500	783.310	2.00	109+10.00	783.780	782.359	1.421	3.500	783.170	-2.00	4.635	783.147	-2.00				5.201	782.707	-66.67	
-5.445	781.846	-66.67				-4.586	782.418	2.00	-3.500	782.397	2.00	110+0.00	782.867	781.196	1.671	3.500	782.257	-2.00	4.635	782.234	-2.00				5.276	781.807	-66.67	
-6.485	780.239	-66.67				-4.586	781.505	2.00	-3.500	781.483	2.00	110+10.00	781.953	780.293	1.660	3.500	781.343	-2.00	4.635	781.321	-2.00				5.220	780.931	-66.67	
-6.264	779.493	-66.67				-4.598	780.604	1.00	-3.500	780.593	1.00	111+0.00	781.098	779.663	1.435	3.500	780.523	-1.00	4.622	780.512	-1.00				5.029	780.241	-66.67	
-6.663	778.351	-66.67				-4.643	779.697	-2.64	-3.500	779.727	-2.64	111+10.00	780.360	779.088	1.272	3.500	779.912	2.64	4.579	779.940	2.64				4.936	779.702	-66.67	
-7.998	776.786	-66.67				-4.662	779.011	-4.00	-3.500	779.057	-4.00	112+0.00	779.737	778.215	1.522	3.500	779.337	4.00	4.564	779.380	4.00				4.768	779.244	-66.67	
-8.254	776.166	-66.67				-4.642	778.574	-2.54	-3.500	778.603	-2.54	112+10.00	779.232	777.027	2.205	3.500	778.780	2.54	4.580	778.808	2.54	4.707	778.935	100.00				
-8.091	776.021	-66.67				-4.598	778.350	1.04	-3.500	778.338	1.04	113+0.00	778.842	776.624	2.218	3.500	778.266	-1.04	4.623	778.254	-1.04				4.793	778.141	-66.67	
-8.685	775.388	-66.67				-4.587	778.120	1.92	-3.500	778.099	2.00	113+10.00	778.569	776.312	2.257	3.500	777.959	-2.00	4.636	777.936	-2.00	4.710	778.011	100.00				
-13.461	772.047	-66.67				-4.589	777.962	1.74	-3.500	777.943	2.00	114+0.00	778.413	776.878	1.534	3.500	777.803	-2.00	4.637	777.779	-2.11				4.895	777.607	-66.67	
-17.083	769.592	-66.67				-4.591	777.920	1.56	-3.500	777.903	2.00	114+10.00	778.373	770.219	8.154	3.500	777.763	-2.00	4.638	777.738	-2.19				18.250	768.663	-66.67	
-17.083	769.610	-66.67				-4.591	777.938	1.56	-3.500	777.921	2.00	115+0.00	778.391	768.975	9.416	3.500	777.781	-2.00	4.638	777.756	-2.19				18.250	768.681	-66.67	
-17.083	769.629	-66.67				-4.591	777.956	1.56	-3.500	777.939	2.00	115+10.00	778.409	768.999	9.410	3.500	777.799	-2.00	4.638	777.774	-2.19				18.250	768.699	-66.67	
-17.083	769.647	-66.67				-4.591	777.974	1.56	-3.500	777.957	2.00	116+0.00	778.427	770.117	8.310	3.500	777.817	-2.00	4.638	777.792	-2.19				18.250	768.717	-66.67	
-14.483	771.452	-66.67				-4.600	778.040	0.84	-3.500	778.031	2.00	116+10.00	778.501	774.815	3.686	3.500	777.891	-2.00	4.642	777.863	-2.50				4.660	777.850	-66.67	
-10.510	774.285	-66.67				-4.602	778.223	0.66	-3.500	778.216	2.00	117+0.00	778.686	776.961	1.725	3.500	778.076	-2.00	4.643	778.047	-2.57	5.054	778.458	100.00				
-8.482	775.933	-66.67				-4.604	778.518	0.49	-3.500	778.512	2.00	117+10.00	778.982	777.293	1.690	3.500	778.372	-2.00	4.644	778.342	-2.65	5.320	779.019	100.00				
-5.979	778.008	-66.67				-4.606	778.923	0.31	-3.500	778.920	2.00	118+0.00	779.390	779.010	0.379	3.500	778.780	-2.00	4.645	778.749	-2.73	5.459	779.563	100.00				
			-4.849	779.680	100.00	-4.608	779.440	0.13	-3.500	779.438	2.00	118+10.00	779.908	780.073	-0.165	3.500	779.298	-2.00	4.646	779.266	-2.80	5.779	780.400	100.00				
			-5.161	780.618	100.00	-4.611	780.068	-0.05	-3.500	780.068	2.00	119+0.00	780.538	780.861	-0.323	3.500	779.928	-2.00	4.647	779.895	-2.88	5.895	781.144	100.00				
			-5.679	781.873	100.00	-4.613	780.807	-0.23	-3.500	780.809	2.00	119+10.00	781.279	782.235	-0.956	3.500	780.669	-2.00	4.648	780.635	-2.96	6.080	782.067	100.00				
			-5.801	782.843	100.00	-4.615	781.657	-0.41	-3.500	781.662	2.00	120+0.00	782.132	782.998	-0.866	3.500	781.522	-2.00	4.649	781.487	-3.03	5.876	782.714	100.00				
			-5.357	783.303	100.00	-4.617	782.563	-0.59	-3.500	782.569	2.00	120+10.00	783.039	783.305	-0.266	3.500	782.429	-2.00	4.650	782.394	-3.11	5.650	783.394	100.00				
			-5.150	784.000	100.00	-4.619	783.469	-0.77	-3.500	783.477	2.00	121+0.00	783.947	784.109	-0.162	3.500	783.337	-2.00	4.651	783.301	-3.19	5.620	784.270	100.00				
			-5.163	784.916	100.00	-4.622	784.375	-0.94	-3.500	784.385	2.00	121+10.00	784.855	784.903	-0.048	3.500	784.245	-2.00	4.652	784.208	-3.26	5.461	785.017	100.00				
			-5.381	786.037	100.00	-4.624	785.280	-1.12	-3.500	785.293	2.00	122+0.00	785.763	785.903	-0.140	3.500	785.153	-2.00	4.653	785.115	-3.34	5.557	786.018	100.00				
			-5.501	787.061	100.00	-4.626	786.186	-1.30	-3.500	786.201	2.00	122+10.00	786.671	786.938	-0.267	3.500	786.061	-2.00	4.654	786.022	-3.42	5.648	787.016	100.00				
			-5.566	788.030	100.00	-4.628	787.092	-1.48	-3.500	787.109	2.00	123+0.00	787.579	787.966	-0.387	3.500	786.969	-2.00	4.655	786.929	-3.49	5.685	787.959	100.00				
			-5.592	788.959	100.00	-4.631	787.998	-1.66	-3.500	788.017	2.00	123+10.00	788.487	788.912	-0.425	3.500	787.877	-2.00	4.656	787.836	-3.57	5.734	788.914	100.00				
			-5.729	790.000	100.00	-4.633	788.904	-1.84	-3.500	788.925	2.00	124+0.00	789.395	789.867	-0.472	3.500	788.785	-2.00	4.657	788.743	-3.64	5.794	789.880	100.00				
			-5.538	790.712	100.00	-4.635	789.810	-2																				

AV. DELFIM MOREIRA - LD 0+0.00 - 18+4.245

Lado Esquerdo									Eixo				Lado Direito											OBSERVAÇÃO				
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			JUNTA CORTE			JUNTA ATERRO			OFFSET CORTE			OFFSET ATERRO			
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. (%)
-5.130	848.113	100.00	-4.086	847.069	2.00	-3.000	847.048	2.00	0+0.00	847.528	847.528	0.00	3.000	846.928	-2.00	4.135	846.905	-2.00				4.184	846.953	100.00				
-5.193	848.389	100.00	-4.086	847.283	2.00	-3.000	847.261	2.00	0+10.00	847.741	847.861	-0.120	3.000	847.141	-2.00	4.135	847.118	-2.00				4.303	847.286	100.00				
-5.200	848.563	100.00	-4.086	847.449	2.00	-3.000	847.428	2.00	1+0.00	847.908	848.038	-0.131	3.000	847.308	-2.00	4.135	847.285	-2.00				4.295	847.444	100.00				
-5.103	848.586	100.00	-4.086	847.569	2.00	-3.000	847.548	2.00	1+10.00	848.028	848.069	-0.042	3.000	847.428	-2.00	4.135	847.405	-2.00										
-4.836	848.393	100.00	-4.086	847.643	2.00	-3.000	847.621	2.00	2+0.00	848.101	847.844	0.257	3.000	847.501	-2.00			4.135	847.479	-2.00				4.841	847.008	-66.67		
-4.959	848.543	100.00	-4.086	847.670	2.00	-3.000	847.648	2.00	2+10.00	848.128	848.230	-0.102	3.000	847.528	-2.00	4.135	847.506	-2.00				4.455	847.825	100.00				
-5.436	849.000	100.00	-4.086	847.651	2.00	-3.000	847.629	2.00	3+0.00	848.109	848.219	-0.110	3.000	847.509	-2.00	4.135	847.486	-2.00				4.260	847.612	100.00				
-5.232	848.730	100.00	-4.086	847.584	2.00	-3.000	847.563	2.00	3+10.00	848.043	847.951	0.092	3.000	847.443	-2.00	4.135	847.420	-2.00				4.203	847.488	100.00				
-4.841	848.227	100.00	-4.086	847.472	2.00	-3.000	847.450	2.00	4+0.00	847.930	847.799	0.131	3.000	847.330	-2.00	4.135	847.307	-2.00				4.150	847.323	100.00				
-4.924	848.173	100.00	-4.086	847.336	2.00	-3.000	847.314	2.00	4+10.00	847.794	847.725	0.069	3.000	847.194	-2.00	4.135	847.171	-2.00				4.194	847.230	100.00				
-5.007	848.121	100.00	-4.086	847.200	2.00	-3.000	847.178	2.00	5+0.00	847.658	847.569	0.089	3.000	847.058	-2.00			4.135	847.036	-2.00				4.183	847.003	-66.67		
-5.070	848.048	100.00	-4.086	847.064	2.00	-3.000	847.042	2.00	5+10.00	847.522	847.449	0.073	3.000	846.922	-2.00			4.135	846.900	-2.00				4.151	846.889	-66.67		
-4.455	847.296	100.00	-4.086	846.928	2.00	-3.000	846.906	2.00	6+0.00	847.386	846.816	0.571	3.000	846.786	-2.00			4.135	846.764	-2.00				4.919	846.241	-66.67		
-4.593	847.299	100.00	-4.086	846.792	2.00	-3.000	846.771	2.00	6+10.00	847.251	846.951	0.299	3.000	846.651	-2.00			4.135	846.628	-2.00				4.351	846.484	-66.67		
-4.739	847.309	100.00	-4.086	846.656	2.00	-3.000	846.635	2.00	7+0.00	847.115	847.024	0.090	3.000	846.515	-2.00	4.135	846.492	-2.00				4.370	846.727	100.00				
-4.818	847.252	100.00	-4.086	846.520	2.00	-3.000	846.499	2.00	7+10.00	846.979	846.874	0.105	3.000	846.379	-2.00	4.135	846.356	-2.00				4.232	846.453	100.00				
-4.989	847.287	100.00	-4.086	846.385	2.00	-3.000	846.363	2.00	8+0.00	846.843	846.926	-0.083	3.000	846.243	-2.00	4.135	846.220	-2.00				4.218	846.304	100.00				
-5.044	847.206	100.00	-4.086	846.249	2.00	-3.000	846.227	2.00	8+10.00	846.707	846.767	-0.060	3.000	846.107	-2.00	4.135	846.084	-2.00				4.226	846.175	100.00				
-5.038	847.065	100.00	-4.086	846.113	2.00	-3.000	846.091	2.00	9+0.00	846.571	846.421	0.150	3.000	845.971	-2.00			4.135	845.948	-2.00				4.283	845.850	-66.67		
-5.028	846.918	100.00	-4.086	845.977	2.00	-3.000	845.955	2.00	9+10.00	846.435	846.341	0.094	3.000	845.835	-2.00			4.135	845.812	-2.00				4.202	845.768	-66.67		
-5.040	846.795	100.00	-4.086	845.841	2.00	-3.000	845.819	2.00	10+0.00	846.299	846.276	0.024	3.000	845.699	-2.00	4.135	845.677	-2.00				4.264	845.806	100.00				
-5.062	846.680	100.00	-4.086	845.705	2.00	-3.000	845.683	2.00	10+10.00	846.163	846.235	-0.072	3.000	845.563	-2.00	4.135	845.541	-2.00				4.272	845.677	100.00				
-4.882	846.365	100.00	-4.086	845.569	2.00	-3.000	845.547	2.00	11+0.00	846.027	846.105	-0.077	3.000	845.427	-2.00	4.135	845.405	-2.00				4.417	845.686	100.00				
-4.859	846.206	100.00	-4.086	845.433	2.00	-3.000	845.412	2.00	11+10.00	845.892	845.864	0.028	3.000	845.292	-2.00	4.135	845.269	-2.00				4.219	845.352	100.00				
-4.949	846.157	100.00	-4.086	845.294	2.00	-3.000	845.273	2.00	12+0.00	845.753	845.725	0.028	3.000	845.153	-2.00	4.135	845.130	-2.00				4.156	845.151	100.00				
-4.993	846.027	100.00	-4.086	845.121	2.00	-3.000	845.099	2.00	12+10.00	845.579	845.523	0.056	3.000	844.979	-2.00			4.135	844.957	-2.00				4.212	844.905	-66.67		
-5.019	845.837	100.00	-4.086	844.905	2.00	-3.000	844.883	2.00	13+0.00	845.363	845.251	0.112	3.000	844.763	-2.00	4.135	844.740	-2.00				4.193	844.798	100.00				
-4.780	845.339	100.00	-4.086	844.645	2.00	-3.000	844.623	2.00	13+10.00	845.103	845.068	0.035	3.000	844.503	-2.00	4.135	844.481	-2.00				4.269	844.615	100.00				
-4.851	845.107	100.00	-4.086	844.342	2.00	-3.000	844.321	2.00	14+0.00	844.801	844.642	0.159	3.000	844.201	-2.00			4.135	844.178	-2.00				4.227	844.116	-66.67		
-5.086	844.997	100.00	-4.086	843.997	2.00	-3.000	843.975	2.00	14+10.00	844.455	844.363	0.092	3.000	843.855	-2.00	4.135	843.832	-2.00										
-5.008	844.529	100.00	-4.086	843.608	2.00	-3.000	843.586	2.00	15+0.00	844.066	843.874	0.192	3.000	843.466	-2.00			4.135	843.443	-2.00				4.198	843.401	-66.67		
-4.878	843.967	100.00	-4.086	843.176	2.00	-3.000	843.154	2.00	15+10.00	843.634	843.411	0.223	3.000	843.034	-2.00			4.135	843.011	-2.00				4.161	842.994	-66.67		
-5.193	843.811	100.00	-4.086	842.703	2.00	-3.000	842.682	2.00	16+0.00	843.162	843.206	-0.045	3.000	842.562	-2.00	4.135	842.539	-2.00				4.240	842.644	100.00				
-5.012	843.148	100.00	-4.086	842.223	2.00	-3.000	842.201	2.00	16+10.00	842.681	842.884	-0.203	3.000	842.081	-2.00	4.135	842.058	-2.00				4.228	842.151	100.00				
-5.097	842.752	100.00	-4.086	841.742	2.00	-3.000	841.720	2.00	17+0.00	842.200	842.163	0.037	3.000	841.600	-2.00			4.135	841.577	-2.00				5.008	840.995	-66.67		
-5.061	842.236	100.00	-4.086	841.261	2.00	-3.000	841.239	2.00	17+10.00	841.719	841.946	-0.227	3.000	841.119	-2.00			4.135	841.097	-2.00				4.911	840.579	-66.67		
-4.832	841.526	100.00	-4.086	840.780	2.00	-3.000	840.758	2.00	18+0.00	841.238	841.323	-0.084	3.000	840.638	-2.00	4.135	840.616	-2.00				4.359	840.840	100.00				
-4.846	841.335	100.00	-4.086	840.576	2.00	-3.000	840.554	2.00	18+4.245	841.034	841.034	0.00	3.000	840.434	-2.00	4.135	840.412	-2.00				4.232	840.508	100.00				

AV. DELFIM MOREIRA - LE 0+0.00 - 14+17.434

Lado Esquerdo									Eixo				Lado Direito									OBSERVAÇÃO			
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE			OFFSET SUB			OFFSET ATERRO				OFFSET CORTE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)		Afast. (m)	Cota (m)	Incl. (%)
-5.550	849.918	100.00	-4.176	848.543	-5.00	-3.000	848.602	2.00	0+0.00	849.082	849.082	0.00	3.000	848.482	-2.00	4.176	848.423	-5.00				4.467	848.714	100.00	
-5.275	849.815	100.00	-4.077	848.617	2.80	-3.000	848.587	2.80	0+10.00	849.043	849.100	-0.057	3.000	848.419	-2.80	4.146	848.387	-2.80				4.510	848.752	100.00	
-5.192	849.693	100.00	-4.077	848.578	2.80	-3.000	848.548	2.80	0+20.00	849.004	849.118	-0.114	3.000	848.380	-2.80	4.146	848.348	-2.80				4.560	848.762	100.00	
-5.131	849.593	100.00	-4.077	848.539	2.80	-3.000	848.509	2.80	1+10.00	848.965	849.108	-0.142	3.000	848.341	-2.80	4.146	848.309	-2.80				4.589	848.752	100.00	
-5.128	849.551	100.00	-4.077	848.500	2.80	-3.000	848.470	2.80	1+20.00	848.926	849.067	-0.141	3.000	848.302	-2.80	4.146	848.270	-2.80				4.519	848.644	100.00	
-4.953	849.337	100.00	-4.077	848.462	2.80	-3.000	848.431	2.80	2+10.00	848.887	848.853	0.034	3.000	848.263	-2.80	4.146	848.231	-2.80				4.341	848.427	100.00	
-4.885	849.224	100.00	-4.077	848.417	2.80	-3.000	848.386	2.80	2+20.00	848.842	848.880	-0.038	3.000	848.218	-2.80	4.146	848.186	-2.80				4.572	848.612	100.00	
-4.939	849.221	100.00	-4.077	848.359	2.80	-3.000	848.329	2.80	3+10.00	848.785	848.983	-0.198	3.000	848.161	-2.80	4.146	848.129	-2.80				4.944	848.927	100.00	
-4.922	849.134	100.00	-4.077	848.289	2.80	-3.000	848.259	2.80	3+20.00	848.715	848.946	-0.231	3.000	848.091	-2.80	4.146	848.059	-2.80				4.739	848.652	100.00	
-4.789	848.919	100.00	-4.077	848.207	2.80	-3.000	848.177	2.80	4+10.00	848.633	848.575	0.057	3.000	848.009	-2.80	4.146	847.977	-2.80				4.420	848.252	100.00	
-4.777	848.812	100.00	-4.077	848.112	2.80	-3.000	848.082	2.80	4+20.00	848.538	848.492	0.046	3.000	847.914	-2.80	4.146	847.882	-2.80				4.452	848.189	100.00	
-4.777	848.705	100.00	-4.077	848.005	2.80	-3.000	847.975	2.80	5+10.00	848.431	848.422	0.010	3.000	847.807	-2.80	4.146	847.775	-2.80				4.499	848.129	100.00	
-4.662	848.470	100.00	-4.077	847.886	2.80	-3.000	847.856	2.80	5+20.00	848.312	848.266	0.046	3.000	847.688	-2.80	4.146	847.656	-2.80				4.558	848.068	100.00	
-4.583	848.260	100.00	-4.077	847.754	2.80	-3.000	847.724	2.80	6+10.00	848.180	847.803	0.377	3.000	847.556	-2.80	4.146	847.524	-2.80	4.175	847.505	-66.67				
-4.622	848.161	100.00	-4.077	847.616	2.80	-3.000	847.586	2.80	6+20.00	848.042	847.678	0.364	3.000	847.418	-2.80	4.146	847.386	-2.80	4.266	847.306	-66.67				
-4.609	848.010	100.00	-4.077	847.478	2.80	-3.000	847.448	2.80	7+10.00	847.904	847.669	0.235	3.000	847.280	-2.80	4.146	847.248	-2.80				4.283	847.386	100.00	
-4.663	847.926	100.00	-4.077	847.340	2.80	-3.000	847.310	2.80	7+20.00	847.766	847.607	0.159	3.000	847.142	-2.80	4.146	847.110	-2.80				4.346	847.311	100.00	
-4.771	847.896	100.00	-4.077	847.202	2.80	-3.000	847.172	2.80	8+10.00	847.628	847.590	0.038	3.000	847.004	-2.80	4.146	846.972	-2.80				4.477	847.304	100.00	
-4.830	847.817	100.00	-4.077	847.064	2.80	-3.000	847.034	2.80	8+20.00	847.490	847.523	-0.033	3.000	846.866	-2.80	4.146	846.834	-2.80				4.558	847.247	100.00	
-4.860	847.710	100.00	-4.077	846.927	2.80	-3.000	846.896	2.80	9+10.00	847.352	847.405	-0.053	3.000	846.728	-2.80	4.146	846.696	-2.80				4.568	847.119	100.00	
-5.041	847.752	100.00	-4.077	846.789	2.80	-3.000	846.758	2.80	9+20.00	847.214	847.435	-0.220	3.000	846.590	-2.80	4.146	846.558	-2.80				4.692	847.104	100.00	
-5.059	847.632	100.00	-4.077	846.651	2.80	-3.000	846.620	2.80	10+10.00	847.076	847.023	0.053	3.000	846.452	-2.80	4.146	846.420	-2.80				4.604	846.878	100.00	
-5.183	847.619	100.00	-4.077	846.513	2.80	-3.000	846.482	2.80	10+20.00	846.938	846.975	-0.037	3.000	846.314	-2.80	4.146	846.282	-2.80				4.866	847.002	100.00	
-4.949	847.246	100.00	-4.077	846.375	2.80	-3.000	846.344	2.80	11+10.00	846.800	846.796	0.005	3.000	846.176	-2.80	4.146	846.144	-2.80				4.529	846.528	100.00	
-4.757	846.916	100.00	-4.077	846.237	2.80	-3.000	846.207	2.80	11+20.00	846.663	846.661	0.002	3.000	846.039	-2.80	4.146	846.006	-2.80				4.543	846.404	100.00	
-4.840	846.862	100.00	-4.077	846.099	2.80	-3.000	846.069	2.80	12+10.00	846.525	846.595	-0.070	3.000	845.901	-2.80	4.146	845.868	-2.80				4.629	846.352	100.00	
-5.072	846.915	100.00	-4.099	845.943	0.91	-3.000	845.933	0.91	12+20.00	846.445	846.618	-0.172	3.000	845.878	-0.91	4.121	845.868	-0.91				4.595	846.342	100.00	
-4.992	846.770	100.00	-4.123	845.901	-1.04	-3.000	845.913	-1.04	13+10.00	846.484	846.249	0.234	3.000	845.975	1.04	4.098	845.986	1.04				4.124	846.013	100.00	
-4.901	846.721	100.00	-4.150	845.970	-3.12	-3.000	846.006	-3.12	13+20.00	846.640	846.197	0.443	3.000	846.193	3.12	4.074	846.227	3.12	4.666	845.832	-66.67				
-4.960	847.040	100.00	-4.153	846.233	-3.38	-3.000	846.272	-3.38	14+10.00	846.913	846.954	-0.041	3.000	846.474	3.38	4.071	846.511	3.38				4.331	846.771	100.00	
-4.613	847.058	100.00	-4.176	846.621	-5.00	-3.000	846.680	2.00	14+17.434	847.160	847.160	0.00	3.000	846.560	-2.00	4.176	846.501	-5.00				5.020	847.345	100.00	

ROTATORIA 0+0.00 - 12+9.856

Lado Esquerdo						Eixo				Lado Direito						OBSERVAÇÃO						
OFFSET CORTE			OFFSET SUB			BORDO SUB-BASE			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO SUB-BASE				OFFSET SUB			OFFSET CORTE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)		Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-5.704	825.182	100.00	-5.135	824.613	-2.00	-4.000	824.635	-2.00	0+0.00	825.255	825.255	0.00	4.000	824.795	2.00	5.086	824.817	2.00	5.712	825.443	100.00	
-5.916	825.005	100.00	-5.135	824.224	-2.00	-4.000	824.247	-2.00	0+10.00	824.867	824.990	-0.123	4.000	824.407	2.00	5.086	824.428	2.00	5.647	824.989	100.00	
-5.966	824.666	100.00	-5.135	823.835	-2.00	-4.000	823.858	-2.00	1+0.00	824.478	824.634	-0.156	4.000	824.018	2.00	5.086	824.040	2.00	5.596	824.550	100.00	
-6.019	824.331	100.00	-5.135	823.447	-2.00	-4.000	823.470	-2.00	1+10.00	824.090	824.210	-0.120	4.000	823.630	2.00	5.086	823.651	2.00	5.566	824.131	100.00	
-6.094	824.017	100.00	-5.135	823.058	-2.00	-4.000	823.081	-2.00	2+0.00	823.701	823.913	-0.212	4.000	823.241	2.00	5.086	823.263	2.00	5.590	823.766	100.00	
-6.122	823.700	100.00	-5.135	822.714	-2.00	-4.000	822.736	-2.00	2+10.00	823.356	823.607	-0.250	4.000	822.896	2.00	5.086	822.918	2.00	5.616	823.447	100.00	
-6.042	823.365	100.00	-5.135	822.458	-2.00	-4.000	822.480	-2.00	3+0.00	823.100	823.181	-0.081	4.000	822.640	2.00	5.086	822.662	2.00	5.456	823.031	100.00	
-6.056	823.211	100.00	-5.135	822.290	-2.00	-4.000	822.313	-2.00	3+10.00	822.933	822.947	-0.014	4.000	822.473	2.00	5.086	822.494	2.00	5.280	822.688	100.00	
-6.067	823.142	100.00	-5.135	822.210	-2.00	-4.000	822.233	-2.00	4+0.00	822.853	822.856	-0.003	4.000	822.393	2.00	5.086	822.415	2.00	5.249	822.577	100.00	
-6.050	823.134	100.00	-5.135	822.219	-2.00	-4.000	822.242	-2.00	4+10.00	822.862	822.838	0.024	4.000	822.402	2.00	5.086	822.424	2.00	5.211	822.548	100.00	
-5.979	823.160	100.00	-5.135	822.316	-2.00	-4.000	822.339	-2.00	5+0.00	822.959	822.930	0.029	4.000	822.499	2.00	5.086	822.521	2.00	5.317	822.751	100.00	
-5.893	823.260	100.00	-5.135	822.502	-2.00	-4.000	822.525	-2.00	5+10.00	823.145	823.009	0.136	4.000	822.685	2.00	5.086	822.706	2.00	5.379	822.999	100.00	
-5.888	823.529	100.00	-5.135	822.776	-2.00	-4.000	822.799	-2.00	6+0.00	823.419	823.391	0.028	4.000	822.959	2.00	5.086	822.980	2.00	5.441	823.335	100.00	
-5.853	823.811	100.00	-5.135	823.094	-2.00	-4.000	823.117	-2.00	6+10.00	823.737	823.750	-0.014	4.000	823.277	2.00	5.086	823.298	2.00	5.433	823.645	100.00	
-5.814																						

6. Folha de Cubação – Eixo 02

Relatório de Volumes

AV. BEIRA MAR - LD

Estaca Inicial: 0+0.00

Estaca Final: 88+0.189

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	1.28	0.00	0.33	0.00	0.00	0.00	0.00
0+10.00	0.95	11.12	0.53	4.27	11.12	4.27	6.85
1+0.00	1.34	11.42	0.20	3.63	22.55	7.90	14.65
1+10.00	1.80	15.68	0.06	1.30	38.23	9.20	29.03
2+0.00	2.62	22.10	0.00	0.30	60.32	9.50	50.83
2+10.00	3.53	30.78	0.00	0.00	91.10	9.50	81.61
3+0.00	2.70	31.17	0.00	0.00	122.27	9.50	112.78
3+10.00	0.93	18.13	0.46	2.32	140.40	11.82	128.58
4+0.00	1.01	9.69	0.13	2.96	150.08	14.78	135.30
4+10.00	0.74	8.77	0.87	4.98	158.85	19.76	139.09
5+0.00	1.22	9.83	0.34	6.05	168.68	25.81	142.87
5+10.00	1.06	11.42	0.27	3.05	180.10	28.87	151.23
6+0.00	0.47	7.64	1.29	7.79	187.73	36.65	151.08
6+10.00	0.45	4.61	1.21	12.48	192.35	49.13	143.21
7+0.00	1.04	7.48	0.10	6.52	199.83	55.65	144.18
7+10.00	0.62	8.32	0.85	4.71	208.15	60.36	147.79
8+0.00	1.01	8.17	0.49	6.70	216.32	67.06	149.26
8+10.00	1.13	10.72	0.35	4.19	227.04	71.25	155.79
9+0.00	2.31	17.23	0.00	1.73	244.27	72.97	171.29
9+10.00	1.84	20.76	0.01	0.06	265.02	73.04	191.98
10+0.00	1.51	16.73	0.10	0.58	281.75	73.62	208.13
10+10.00	2.98	22.44	0.00	0.52	304.19	74.13	230.06
11+0.00	2.82	29.00	0.00	0.00	333.19	74.13	259.06
11+10.00	1.81	23.15	0.11	0.53	356.34	74.66	281.68
12+0.00	2.73	22.71	0.00	0.53	379.06	75.19	303.86
12+10.00	3.33	30.28	0.00	0.00	409.34	75.19	334.15
13+0.00	2.64	29.85	0.00	0.00	439.19	75.19	364.00
13+10.00	2.69	26.65	0.00	0.00	465.84	75.19	390.65
14+0.00	3.11	28.96	0.00	0.00	494.80	75.19	419.61
14+10.00	1.55	23.30	0.12	0.58	518.11	75.77	442.34
15+0.00	1.98	17.69	0.00	0.58	535.79	76.34	459.45
15+10.00	0.89	14.37	0.55	2.74	550.16	79.09	471.07
16+0.00	0.76	8.24	0.66	6.06	558.40	85.15	473.25
16+10.00	1.52	11.37	0.13	3.98	569.77	89.13	480.64
17+0.00	0.73	11.24	0.67	4.00	581.01	93.12	487.89
17+10.00	0.96	8.45	0.19	4.29	589.47	97.41	492.05
18+0.00	1.56	12.57	0.27	2.31	602.03	99.73	502.30
18+10.00	0.86	12.07	0.73	4.99	614.10	104.72	509.39
19+0.00	0.90	8.78	0.16	4.43	622.89	109.15	513.74
19+10.00	0.59	7.44	0.80	4.81	630.33	113.96	516.37
20+0.00	1.05	8.20	0.29	5.47	638.53	119.43	519.10
20+10.00	1.00	10.25	0.77	5.29	648.78	124.72	524.06
21+0.00	0.72	8.61	0.49	6.29	657.39	131.01	526.37
21+10.00	0.86	7.91	0.78	6.35	665.30	137.36	527.94
22+0.00	0.44	6.49	1.30	10.39	671.79	147.76	524.03
22+10.00	0.59	5.13	1.12	12.08	676.92	159.84	517.08
23+0.00	0.34	4.67	2.05	15.82	681.59	175.66	505.93
23+10.00	0.90	6.22	0.62	13.34	687.81	189.00	498.81
24+0.00	0.93	9.16	0.90	7.58	696.98	196.58	500.39
24+10.00	0.76	8.47	0.52	7.07	705.45	203.66	501.79
25+0.00	1.12	9.41	1.12	8.17	714.85	211.83	503.02
25+10.00	0.58	8.52	1.10	11.09	723.38	222.92	500.46
26+0.00	1.89	12.37	0.06	5.81	735.75	228.73	507.02

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
26+10.00	0.75	13.21	1.56	8.11	748.96	236.83	512.13
27+0.00	0.46	6.06	1.45	15.07	755.02	251.90	503.12
27+10.00	0.46	4.58	1.55	14.99	759.61	266.89	492.71
28+0.00	1.09	7.75	0.59	10.68	767.36	277.57	489.79
28+10.00	0.89	9.92	1.13	8.61	777.27	286.18	491.09
29+0.00	1.16	10.22	0.30	7.16	787.50	293.34	494.15
29+10.00	0.98	10.71	0.50	4.00	798.20	297.34	500.86
30+0.00	1.96	14.75	0.00	2.49	812.95	299.83	513.12
30+10.00	1.99	19.78	0.03	0.15	832.73	299.98	532.75
31+0.00	2.40	21.95	0.00	0.15	854.68	300.14	554.54
31+10.00	1.56	19.77	0.48	2.38	874.45	302.51	571.93
32+0.00	1.92	17.39	0.13	3.03	891.84	305.54	586.30
32+10.00	2.68	23.03	0.00	0.65	914.87	306.19	608.68
33+0.00	3.81	32.49	0.00	0.00	947.36	306.19	641.17
33+10.00	1.61	27.11	0.14	0.70	974.46	306.89	667.57
34+0.00	3.56	25.85	0.00	0.70	1000.31	307.59	692.72
34+10.00	2.52	30.41	0.00	0.00	1030.72	307.59	723.13
35+0.00	1.97	22.47	0.65	3.23	1053.19	310.81	742.38
35+10.00	1.85	19.11	0.44	5.41	1072.30	316.23	756.07
36+0.00	0.85	13.48	1.09	7.64	1085.78	323.86	761.92
36+10.00	0.57	7.11	2.57	18.28	1092.89	342.15	750.74
37+0.00	2.14	13.56	0.24	14.03	1106.45	356.18	750.27
37+10.00	0.62	13.81	1.14	6.92	1120.26	363.09	757.17
38+0.00	0.75	6.89	1.24	11.90	1127.15	374.99	752.15
38+10.00	1.26	10.04	1.11	11.73	1137.19	386.72	750.47
39+0.00	1.08	11.66	0.59	8.49	1148.85	395.21	753.64
39+10.00	2.63	18.52	0.01	3.01	1167.37	398.22	769.15
40+0.00	2.87	27.48	0.00	0.06	1194.85	398.28	796.57
40+10.00	4.83	38.49	0.00	0.00	1233.34	398.28	835.06
41+0.00	5.10	49.66	0.00	0.00	1283.00	398.28	884.72
41+10.00	3.53	43.17	0.00	0.00	1326.17	398.28	927.89
42+0.00	3.83	36.81	0.00	0.00	1362.98	398.28	964.70
42+10.00	4.84	43.34	0.00	0.00	1406.32	398.28	1008.04
43+0.00	3.11	39.74	0.00	0.00	1446.06	398.28	1047.78
43+10.00	2.17	26.39	0.00	0.00	1472.45	398.28	1074.17
44+0.00	1.28	17.23	0.18	0.91	1489.68	399.19	1090.49
44+10.00	0.82	10.49	0.79	4.84	1500.17	404.03	1096.14
45+0.00	0.85	8.35	0.22	5.02	1508.52	409.06	1099.47
45+10.00	1.76	13.06	0.05	1.37	1521.58	410.42	1111.16
46+0.00	0.61	11.88	0.66	3.56	1533.46	413.98	1119.48
46+10.00	0.41	5.10	1.01	8.31	1538.56	422.29	1116.26
47+0.00	1.23	8.19	0.25	6.27	1546.75	428.57	1118.18
47+10.00	1.54	13.83	0.21	2.28	1560.59	430.85	1129.73
48+0.00	1.10	13.15	0.30	2.53	1573.74	433.39	1140.35
48+10.00	0.64	8.68	0.36	3.30	1582.42	436.68	1145.74
49+0.00	1.80	12.23	0.10	2.30	1594.65	438.98	1155.67
49+10.00	0.83	13.16	0.61	3.56	1607.81	442.54	1165.27
50+0.00	1.21	10.20	0.34	4.78	1618.01	447.32	1170.69
50+10.00	1.32	12.66	0.00	1.75	1630.67	449.07	1181.60
51+0.00	2.88	21.02	0.00	0.03	1651.69	449.11	1202.58
51+10.00	1.12	20.04	0.31	1.53	1671.73	450.64	1221.09
52+0.00	1.75	14.37	0.12	2.13	1686.10	452.78	1233.33
52+10.00	2.01	18.81	0.02	0.71	1704.91	453.49	1251.42
53+0.00	2.52	22.67	0.09	0.54	1727.58	454.03	1273.55
53+10.00	1.34	19.28	0.21	1.49	1746.86	455.52	1291.34
54+0.00	1.37	13.53	0.23	2.20	1760.39	457.72	1302.67
54+10.00	3.27	23.20	0.00	1.13	1783.58	458.85	1324.73
55+0.00	3.28	32.72	0.00	0.00	1816.30	458.85	1357.45
55+10.00	1.48	23.80	0.11	0.57	1840.10	459.43	1380.67
56+0.00	2.08	17.83	0.05	0.83	1857.93	460.26	1397.67

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
56+10.00	1.52	17.73	0.44	2.51	1875.66	462.77	1412.89
57+0.00	1.71	15.81	0.12	2.87	1891.47	465.64	1425.84
57+10.00	1.79	17.34	0.09	1.04	1908.82	466.68	1442.14
58+0.00	2.57	21.81	0.00	0.44	1930.63	467.12	1463.51
58+10.00	1.77	21.70	0.00	0.00	1952.33	467.12	1485.21
59+0.00	2.97	23.51	0.00	0.00	1975.84	467.12	1508.72
59+10.00	2.12	25.41	0.00	0.00	2001.25	467.12	1534.13
60+0.00	2.74	24.48	0.00	0.00	2025.73	467.12	1558.61
60+10.00	2.19	24.64	0.00	0.00	2050.37	467.12	1583.25
61+0.00	1.42	18.04	0.00	0.00	2068.41	467.12	1601.29
61+10.00	3.16	22.92	0.00	0.00	2091.33	467.12	1624.21
62+0.00	4.88	40.22	0.00	0.00	2131.54	467.12	1664.43
62+10.00	2.26	35.69	0.00	0.02	2167.23	467.13	1700.10
63+0.00	2.27	22.62	0.11	0.54	2189.85	467.68	1722.17
63+10.00	2.22	22.44	0.09	0.98	2212.29	468.65	1743.63
64+0.00	1.99	21.05	0.22	1.56	2233.34	470.21	1763.13
64+10.00	2.43	22.10	0.29	2.54	2255.44	472.75	1782.69
65+0.00	1.41	19.05	0.47	3.82	2274.49	476.56	1797.92
65+10.00	0.94	11.42	0.94	7.19	2285.90	483.76	1802.15
66+0.00	0.68	8.06	1.26	11.00	2293.96	494.76	1799.20
66+10.00	1.28	9.79	1.01	11.34	2303.76	506.10	1797.66
67+0.00	2.06	16.70	0.57	7.89	2320.46	513.98	1806.47
67+10.00	1.50	17.81	0.88	7.23	2338.26	521.22	1817.05
68+0.00	0.72	11.11	1.29	10.84	2349.37	532.06	1817.31
68+10.00	0.80	7.57	0.94	11.16	2356.94	543.21	1813.73
69+0.00	1.06	9.29	1.26	11.03	2366.23	554.24	1811.99
69+10.00	0.82	9.41	1.90	15.81	2375.64	570.04	1805.60
70+0.00	0.41	6.13	1.94	19.18	2381.77	589.22	1792.55
70+10.00	0.44	4.22	1.73	18.36	2385.99	607.59	1778.40
71+0.00	0.47	4.56	0.83	12.82	2390.55	620.41	1770.15
71+10.00	0.87	6.74	0.83	8.32	2397.30	628.73	1768.57
72+0.00	0.34	6.08	1.95	13.93	2403.38	642.66	1760.73
72+10.00	0.45	3.96	1.76	18.55	2407.34	661.20	1746.14
73+0.00	0.58	5.13	1.07	14.13	2412.47	675.34	1737.14
73+10.00	1.33	9.52	0.50	7.84	2421.99	683.18	1738.81
74+0.00	1.29	13.11	0.51	5.04	2435.10	688.23	1746.87
74+10.00	0.92	11.04	0.50	5.06	2446.14	693.28	1752.86
75+0.00	1.08	9.99	0.77	6.39	2456.13	699.67	1756.46
75+10.00	1.03	10.56	1.45	11.09	2466.69	710.76	1755.93
76+0.00	0.66	8.46	0.91	11.79	2475.14	722.55	1752.60
76+10.00	2.64	16.52	0.00	4.56	2491.67	727.11	1764.56
77+0.00	6.23	44.38	0.00	0.00	2536.04	727.11	1808.93
77+10.00	2.98	46.06	0.04	0.19	2582.10	727.30	1854.80
78+0.00	3.48	32.29	0.00	0.19	2614.40	727.48	1886.91
78+10.00	1.19	23.36	0.10	0.51	2637.75	727.99	1909.76
79+0.00	1.39	12.89	0.00	0.51	2650.64	728.50	1922.14
79+10.00	1.23	13.05	0.11	0.57	2663.69	729.07	1934.62
80+0.00	0.45	8.36	0.88	4.95	2672.05	734.02	1938.03
80+10.00	2.13	12.91	0.00	4.42	2684.96	738.44	1946.52
81+0.00	3.52	27.87	0.00	0.05	2712.84	738.49	1974.35
81+10.00	0.59	19.30	2.19	11.49	2732.13	749.98	1982.15
82+0.00	0.91	6.76	1.40	18.68	2738.90	768.66	1970.24
82+10.00	1.33	11.16	0.38	8.93	2750.06	777.59	1972.47
83+0.00	1.68	15.05	0.18	2.82	2765.11	780.41	1984.70
83+10.00	2.26	19.75	0.03	1.03	2784.86	781.44	2003.42
84+0.00	2.88	25.73	0.05	0.38	2810.59	781.82	2028.77
84+10.00	3.43	31.54	0.00	0.26	2842.13	782.08	2060.05
85+0.00	1.77	25.95	0.15	0.74	2868.08	782.82	2085.26
85+10.00	0.34	10.55	1.83	9.87	2878.63	792.69	2085.93
86+0.00	0.18	2.65	4.38	31.03	2881.27	823.73	2057.55

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
86+10.00	1.26	7.24	0.07	22.27	2888.52	845.99	2042.53
87+0.00	2.76	20.10	0.00	0.36	2908.62	846.36	2062.26
87+10.00	2.57	26.62	0.00	0.00	2935.24	846.36	2088.88
88+0.00	1.44	20.02	0.45	2.23	2955.26	848.59	2106.67
88+0.189	1.45	0.27	0.44	0.08	2955.53	848.67	2106.86

AV. BEIRA MAR - LE

Estaca Inicial: 0+0.00

Estaca Final: 87+2.626

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	1.10	0.00	0.31	0.00	0.00	0.00	0.00
0+10.00	1.84	14.71	0.03	1.68	14.71	1.68	13.03
1+0.00	2.92	23.77	0.00	0.14	38.48	1.82	36.66
1+10.00	4.08	34.99	0.00	0.00	73.47	1.82	71.65
2+0.00	5.16	46.24	0.00	0.00	119.71	1.82	117.89
2+10.00	3.47	43.16	0.00	0.00	162.88	1.82	161.05
3+0.00	3.75	36.08	0.00	0.00	198.96	1.82	197.13
3+10.00	3.81	37.80	0.00	0.00	236.75	1.82	234.93
4+0.00	2.59	32.01	0.00	0.00	268.77	1.82	266.94
4+10.00	3.49	30.41	0.00	0.00	299.18	1.82	297.35
5+0.00	2.33	29.10	0.00	0.00	328.28	1.82	326.45
5+10.00	1.88	21.06	0.08	0.41	349.34	2.24	347.10
6+0.00	1.75	18.17	0.18	1.32	367.51	3.56	363.95
6+10.00	1.37	15.60	0.09	1.36	383.11	4.92	378.19
7+0.00	2.08	17.27	0.02	0.58	400.38	5.50	394.87
7+10.00	3.18	26.30	0.00	0.12	426.68	5.62	421.05
8+0.00	3.81	34.96	0.00	0.00	461.63	5.62	456.01
8+10.00	3.24	35.27	0.00	0.00	496.91	5.62	491.28
9+0.00	3.20	32.20	0.00	0.00	529.10	5.62	523.48
9+10.00	4.18	36.90	0.00	0.00	566.00	5.62	560.38
10+0.00	4.05	41.14	0.00	0.00	607.14	5.62	601.52
10+10.00	5.22	46.35	0.00	0.00	653.49	5.62	647.86
11+0.00	5.02	51.24	0.00	0.00	704.73	5.62	699.10
11+10.00	4.92	49.73	0.00	0.00	754.45	5.62	748.83
12+0.00	6.42	56.70	0.00	0.00	811.15	5.62	805.53
12+10.00	5.58	59.99	0.00	0.00	871.14	5.62	865.51
13+0.00	4.58	50.80	0.00	0.00	921.94	5.62	916.31
13+10.00	5.56	50.72	0.00	0.00	972.65	5.62	967.03
14+0.00	5.34	54.53	0.00	0.00	1027.18	5.62	1021.56
14+10.00	3.30	43.23	0.00	0.00	1070.42	5.62	1064.79
15+0.00	3.24	32.70	0.00	0.00	1103.12	5.62	1097.50
15+10.00	3.19	32.13	0.00	0.00	1135.25	5.62	1129.62
16+0.00	3.55	33.69	0.00	0.00	1168.94	5.62	1163.32
16+10.00	2.30	29.25	0.01	0.07	1198.19	5.69	1192.50
17+0.00	2.40	23.48	0.00	0.07	1221.67	5.77	1215.91
17+10.00	4.61	35.05	0.00	0.00	1256.72	5.77	1250.96
18+0.00	1.58	30.97	0.02	0.12	1287.70	5.88	1281.82
18+10.00	1.83	17.07	0.05	0.37	1304.76	6.26	1298.51
19+0.00	2.37	21.02	0.00	0.26	1325.79	6.52	1319.27
19+10.00	2.72	25.44	0.00	0.00	1351.23	6.53	1344.70
20+0.00	2.30	25.08	0.00	0.00	1376.31	6.53	1369.78
20+10.00	1.77	20.34	0.00	0.00	1396.65	6.53	1390.13
21+0.00	1.67	17.20	0.00	0.00	1413.85	6.53	1407.33
21+10.00	0.90	12.83	0.13	0.64	1426.68	7.17	1419.51
22+0.00	1.53	12.15	0.00	0.65	1438.84	7.82	1431.02
22+10.00	1.14	13.38	0.37	1.83	1452.21	9.64	1442.57
23+0.00	3.39	22.65	0.00	1.83	1474.86	11.47	1463.39
23+10.00	3.67	35.31	0.00	0.00	1510.17	11.47	1498.70

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
24+0.00	2.46	30.65	0.00	0.00	1540.82	11.47	1529.35
24+10.00	4.04	32.50	0.00	0.00	1573.33	11.47	1561.86
25+0.00	2.45	32.46	0.00	0.00	1605.79	11.47	1594.32
25+10.00	5.20	38.22	0.00	0.00	1644.00	11.47	1632.53
26+0.00	3.64	44.16	0.00	0.00	1688.17	11.47	1676.70
26+10.00	2.19	29.16	0.00	0.02	1717.32	11.49	1705.84
27+0.00	2.84	25.15	0.00	0.02	1742.47	11.50	1730.97
27+10.00	3.72	32.80	0.00	0.00	1775.28	11.50	1763.77
28+0.00	2.73	32.25	0.00	0.00	1807.53	11.50	1796.02
28+10.00	2.98	28.54	0.00	0.00	1836.07	11.50	1824.56
29+0.00	2.69	28.36	0.00	0.00	1864.42	11.50	1852.92
29+10.00	3.52	31.05	0.00	0.00	1895.47	11.50	1883.97
30+0.00	3.87	36.95	0.00	0.00	1932.42	11.50	1920.92
30+10.00	4.22	40.42	0.00	0.00	1972.84	11.50	1961.34
31+0.00	5.11	46.63	0.00	0.00	2019.47	11.50	2007.96
31+10.00	5.14	51.24	0.00	0.00	2070.70	11.50	2059.20
32+0.00	5.17	51.53	0.00	0.00	2122.24	11.50	2110.74
32+10.00	5.64	54.02	0.00	0.00	2176.26	11.50	2164.76
33+0.00	6.00	58.20	0.00	0.00	2234.46	11.50	2222.96
33+10.00	6.12	60.62	0.00	0.00	2295.08	11.50	2283.57
34+0.00	6.37	62.42	0.00	0.00	2357.50	11.50	2346.00
34+10.00	5.70	60.33	0.00	0.00	2417.83	11.50	2406.32
35+0.00	5.58	56.41	0.00	0.00	2474.23	11.50	2462.73
35+10.00	3.75	46.64	0.00	0.00	2520.87	11.50	2509.37
36+0.00	5.18	44.64	0.00	0.00	2565.51	11.50	2554.01
36+10.00	4.15	46.67	0.00	0.00	2612.19	11.50	2600.69
37+0.00	4.16	41.58	0.00	0.00	2653.77	11.50	2642.27
37+10.00	5.61	48.85	0.00	0.00	2702.62	11.50	2691.12
38+0.00	4.67	51.41	0.00	0.00	2754.03	11.50	2742.53
38+10.00	5.55	51.14	0.00	0.00	2805.17	11.50	2793.67
39+0.00	6.26	59.07	0.00	0.00	2864.25	11.50	2852.74
39+10.00	5.45	58.55	0.00	0.00	2922.79	11.50	2911.29
40+0.00	6.39	59.17	0.00	0.00	2981.97	11.50	2970.46
40+10.00	6.87	66.27	0.00	0.00	3048.24	11.50	3036.74
41+0.00	5.65	62.60	0.00	0.00	3110.84	11.50	3099.34
41+10.00	5.21	54.34	0.00	0.00	3165.18	11.50	3153.67
42+0.00	6.67	59.42	0.00	0.00	3224.60	11.50	3213.10
42+10.00	6.06	63.64	0.00	0.00	3288.24	11.50	3276.74
43+0.00	3.64	48.52	0.00	0.00	3336.75	11.50	3325.25
43+10.00	3.81	37.28	0.00	0.00	3374.04	11.50	3362.54
44+0.00	4.91	43.63	0.00	0.00	3417.67	11.50	3406.16
44+10.00	2.18	35.47	0.00	0.00	3453.13	11.50	3441.63
45+0.00	3.69	29.34	0.00	0.00	3482.47	11.50	3470.97
45+10.00	2.20	29.44	0.06	0.31	3511.91	11.81	3500.10
46+0.00	0.95	15.74	0.26	1.60	3527.65	13.41	3514.24
46+10.00	2.79	18.67	0.00	1.29	3546.32	14.70	3531.62
47+0.00	4.49	36.36	0.00	0.00	3582.69	14.70	3567.99
47+10.00	4.93	47.07	0.00	0.00	3629.76	14.70	3615.06
48+0.00	1.90	34.13	0.00	0.00	3663.89	14.70	3649.19
48+10.00	3.83	28.61	0.00	0.00	3692.50	14.70	3677.80
49+0.00	4.95	43.88	0.00	0.00	3736.38	14.70	3721.68
49+10.00	4.52	47.37	0.00	0.00	3783.75	14.70	3769.05
50+0.00	3.46	39.90	0.00	0.00	3823.64	14.70	3808.94
50+10.00	5.38	44.19	0.00	0.00	3867.83	14.70	3853.13
51+0.00	5.40	53.92	0.00	0.00	3921.75	14.70	3907.05
51+10.00	6.65	60.26	0.00	0.00	3982.01	14.70	3967.31
52+0.00	5.46	60.53	0.00	0.00	4042.54	14.70	4027.84
52+10.00	6.23	58.40	0.00	0.00	4100.94	14.70	4086.24
53+0.00	5.87	60.46	0.00	0.00	4161.41	14.70	4146.71
53+10.00	7.19	64.82	0.00	0.00	4226.22	14.70	4211.52

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
54+0.00	6.21	66.43	0.00	0.00	4292.66	14.70	4277.96
54+10.00	7.74	69.18	0.00	0.00	4361.83	14.70	4347.13
55+0.00	11.67	96.08	0.00	0.00	4457.91	14.70	4443.21
55+10.00	15.98	136.89	0.00	0.00	4594.81	14.70	4580.11
56+0.00	19.13	176.78	0.00	0.00	4771.58	14.70	4756.88
56+10.00	19.01	192.35	0.00	0.00	4963.93	14.70	4949.23
57+0.00	18.80	190.92	0.00	0.00	5154.85	14.70	5140.15
57+10.00	16.20	176.77	0.00	0.00	5331.62	14.70	5316.92
58+0.00	15.32	159.14	0.00	0.00	5490.76	14.70	5476.06
58+10.00	22.08	188.90	0.00	0.00	5679.65	14.70	5664.95
59+0.00	16.44	191.57	0.00	0.00	5871.22	14.70	5856.52
59+10.00	11.58	138.82	0.00	0.00	6010.05	14.70	5995.35
60+0.00	7.36	93.91	0.00	0.00	6103.96	14.70	6089.26
60+10.00	5.25	63.08	0.00	0.00	6167.04	14.70	6152.34
61+0.00	5.80	55.25	0.00	0.00	6222.29	14.70	6207.59
61+10.00	6.46	61.29	0.00	0.00	6283.58	14.70	6268.88
62+0.00	6.65	65.53	0.00	0.00	6349.11	14.70	6334.41
62+10.00	7.68	71.65	0.00	0.00	6420.76	14.70	6406.06
63+0.00	6.22	69.54	0.00	0.00	6490.29	14.70	6475.59
63+10.00	4.63	54.25	0.00	0.00	6544.54	14.70	6529.84
64+0.00	5.36	49.93	0.00	0.00	6594.47	14.70	6579.77
64+10.00	6.31	58.27	0.00	0.00	6652.74	14.70	6638.04
65+0.00	4.37	53.05	0.00	0.00	6705.79	14.70	6691.09
65+10.00	2.87	36.24	0.00	0.00	6742.03	14.70	6727.33
66+0.00	2.96	29.19	0.00	0.00	6771.22	14.70	6756.52
66+10.00	4.60	37.83	0.00	0.00	6809.05	14.70	6794.35
67+0.00	5.64	51.21	0.00	0.00	6860.26	14.70	6845.56
67+10.00	2.96	43.01	0.00	0.00	6903.27	14.70	6888.57
68+0.00	1.14	20.53	0.00	0.00	6923.81	14.70	6909.11
68+10.00	2.14	16.41	0.00	0.00	6940.21	14.70	6925.51
69+0.00	2.63	23.83	0.00	0.00	6964.04	14.70	6949.34
69+10.00	2.07	23.47	0.03	0.16	6987.52	14.86	6972.66
70+0.00	1.77	19.19	0.04	0.37	7006.71	15.22	6991.48
70+10.00	0.74	12.57	0.69	3.68	7019.27	18.90	7000.37
71+0.00	1.42	10.81	0.00	3.47	7030.08	22.37	7007.72
71+10.00	1.52	14.70	0.16	0.78	7044.78	23.15	7021.63
72+0.00	2.72	21.20	0.00	0.79	7065.98	23.94	7042.04
72+10.00	2.29	25.03	0.00	0.00	7091.01	23.94	7067.07
73+0.00	2.20	22.41	0.00	0.00	7113.42	23.95	7089.47
73+10.00	3.58	28.90	0.00	0.00	7142.32	23.95	7118.37
74+0.00	4.44	40.11	0.00	0.00	7182.43	23.95	7158.49
74+10.00	2.44	34.39	0.00	0.00	7216.82	23.95	7192.87
75+0.00	4.33	33.83	0.00	0.00	7250.64	23.95	7226.70
75+10.00	4.53	44.31	0.00	0.00	7294.95	23.95	7271.01
76+0.00	5.06	47.99	0.00	0.00	7342.94	23.95	7318.99
76+10.00	7.20	61.32	0.00	0.00	7404.26	23.95	7380.32
77+0.00	6.77	69.87	0.00	0.00	7474.13	23.95	7450.18
77+10.00	7.01	68.92	0.00	0.00	7543.05	23.95	7519.10
78+0.00	5.51	62.63	0.00	0.00	7605.67	23.95	7581.73
78+10.00	4.85	51.80	0.00	0.00	7657.48	23.95	7633.53
79+0.00	5.98	54.11	0.00	0.00	7711.59	23.95	7687.64
79+10.00	3.20	45.89	0.03	0.15	7757.48	24.09	7733.38
80+0.00	3.88	35.43	0.00	0.15	7792.91	24.24	7768.67
80+10.00	4.73	42.80	0.00	0.00	7835.70	24.24	7811.46
81+0.00	2.08	32.85	0.00	0.00	7868.56	24.25	7844.31
81+10.00	3.99	30.38	0.00	0.00	7898.93	24.25	7874.68
82+0.00	4.87	44.32	0.00	0.00	7943.25	24.25	7919.00
82+10.00	5.55	52.10	0.00	0.00	7995.34	24.25	7971.09
83+0.00	7.71	66.28	0.00	0.00	8061.62	24.25	8037.37
83+10.00	5.29	64.99	0.00	0.00	8126.61	24.25	8102.36

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
84+0.00	4.40	48.45	0.00	0.00	8175.06	24.25	8150.81
84+10.00	2.11	32.53	0.12	0.59	8207.59	24.84	8182.75
85+0.00	2.08	20.96	0.75	4.34	8228.56	29.18	8199.38
85+10.00	2.73	24.08	0.13	4.39	8252.64	33.56	8219.07
86+0.00	2.28	25.08	0.61	3.69	8277.72	37.26	8240.46
86+10.00	1.73	20.08	0.45	5.32	8297.79	42.58	8255.22
87+0.00	1.64	16.87	0.50	4.75	8314.66	47.32	8267.34
87+2.626	1.75	4.45	0.49	1.30	8319.11	48.62	8270.49

AV. BRASIL - LD

Estaca Inicial: 0+0.00

Estaca Final: 20+18.916

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	1.89	0.00	0.67	0.00	0.00	0.00	0.00
0+10.00	0.33	11.09	4.41	25.39	11.09	25.39	-14.29
1+0.00	0.05	1.91	11.01	77.11	13.00	102.50	-89.50
1+10.00	0.00	0.27	19.78	153.98	13.27	256.48	-243.21
2+0.00	0.00	0.01	24.86	223.19	13.28	479.67	-466.39
2+10.00	0.00	0.03	30.87	278.61	13.31	758.28	-744.96
3+0.00	0.00	0.02	39.52	351.92	13.34	1110.20	-1096.86
3+10.00	0.00	0.00	47.92	437.19	13.34	1547.38	-1534.05
4+0.00	0.00	0.00	60.18	540.52	13.34	2087.90	-2074.56
4+10.00	0.00	0.02	73.35	667.68	13.35	2755.58	-2742.23
5+0.00	0.00	0.05	86.43	798.89	13.40	3554.47	-3541.06
5+10.00	0.00	0.03	104.13	952.79	13.44	4507.25	-4493.82
6+0.00	0.07	0.34	120.02	1120.77	13.77	5628.02	-5614.25
6+10.00	0.06	0.64	137.49	1287.55	14.42	6915.57	-6901.15
7+0.00	0.00	0.30	156.85	1471.71	14.72	8387.28	-8372.56
7+10.00	0.00	0.00	158.63	1577.41	14.72	9964.70	-9949.98
8+0.00	1.08	5.38	121.69	1401.57	20.10	11366.27	-11346.17
8+10.00	3.35	22.14	88.38	1050.34	42.24	12416.61	-12374.37
9+0.00	1.18	22.64	75.02	816.98	64.88	13233.59	-13168.71
9+10.00	0.05	6.11	64.25	696.30	71.00	13929.90	-13858.90
10+0.00	0.00	0.23	53.81	590.30	71.23	14520.19	-14448.97
10+10.00	0.00	0.00	42.03	479.22	71.23	14999.41	-14928.18
11+0.00	0.00	0.00	33.55	377.88	71.23	15377.29	-15306.06
11+10.00	0.00	0.00	27.12	301.40	71.23	15678.69	-15607.46
12+0.00	0.00	0.00	21.29	242.06	71.23	15920.74	-15849.51
12+10.00	0.00	0.00	15.31	183.02	71.23	16103.77	-16032.54
13+0.00	0.00	0.00	11.48	133.93	71.23	16237.70	-16166.47
13+10.00	0.00	0.00	7.87	96.72	71.23	16334.42	-16263.19
14+0.00	0.02	0.08	4.60	62.32	71.31	16396.74	-16325.43
14+10.00	0.13	0.73	2.48	35.37	72.04	16432.11	-16360.06
15+0.00	0.14	1.35	2.37	24.22	73.39	16456.33	-16382.93
15+10.00	0.51	3.23	0.67	15.18	76.63	16471.51	-16394.88
16+0.00	1.19	8.49	0.00	3.34	85.12	16474.85	-16389.74
16+10.00	0.80	9.95	0.01	0.06	95.07	16474.91	-16379.84
17+0.00	1.81	13.08	0.00	0.06	108.15	16474.96	-16366.82
17+10.00	0.72	12.68	0.12	0.60	120.83	16475.56	-16354.73
18+0.00	2.19	14.55	0.00	0.61	135.38	16476.17	-16340.80
18+10.00	0.84	15.14	0.24	1.20	150.52	16477.37	-16326.86
19+0.00	1.00	9.22	0.00	1.21	159.74	16478.59	-16318.85
19+10.00	0.27	6.35	1.35	6.79	166.09	16485.37	-16319.29
20+0.00	0.35	3.07	1.21	12.81	169.16	16498.18	-16329.02
20+10.00	0.47	4.09	0.57	8.90	173.25	16507.08	-16333.83
20+18.916	0.74	5.40	0.16	3.28	178.66	16510.36	-16331.70

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
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AV. BRASIL - LE

Estaca Inicial: 0+0.00

Estaca Final: 21+2.797

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	1.42	0.00	0.75	0.00	0.00	0.00	0.00
0+10.00	0.70	10.61	3.98	23.68	10.61	23.68	-13.07
1+0.00	0.00	3.52	16.74	103.60	14.14	127.28	-113.15
1+10.00	0.00	0.00	21.55	191.43	14.14	318.71	-304.58
2+0.00	0.00	0.00	26.10	238.27	14.14	556.98	-542.84
2+10.00	0.00	0.00	31.08	285.93	14.14	842.91	-828.77
3+0.00	0.59	2.97	33.99	325.38	17.10	1168.29	-1151.18
3+10.00	1.43	10.12	40.57	372.80	27.22	1541.09	-1513.87
4+0.00	0.00	7.15	61.68	511.21	34.37	2052.30	-2017.93
4+10.00	0.26	1.29	72.48	670.80	35.66	2723.10	-2687.45
5+0.00	0.42	3.40	87.43	799.57	39.06	3522.67	-3483.62
5+10.00	0.00	2.11	119.13	1032.78	41.17	4555.45	-4514.28
6+0.00	0.39	1.96	148.57	1338.46	43.13	5893.91	-5850.78
6+10.00	0.88	6.34	176.66	1626.14	49.46	7520.05	-7470.59
7+0.00	0.00	4.38	212.68	1946.70	53.84	9466.76	-9412.92
7+10.00	0.00	0.00	217.46	2150.70	53.84	11617.46	-11563.62
8+0.00	5.43	27.16	142.09	1797.76	81.00	13415.22	-13334.22
8+10.00	0.11	27.69	95.66	1188.77	108.69	14603.99	-14495.30
9+0.00	1.26	6.84	77.98	868.22	115.53	15472.21	-15356.68
9+10.00	3.87	25.65	64.19	710.86	141.18	16183.07	-16041.89
10+0.00	7.41	56.40	48.92	565.54	197.58	16748.61	-16551.03
10+10.00	3.83	56.23	44.85	468.82	253.81	17217.43	-16963.62
11+0.00	0.39	21.10	38.49	416.67	274.91	17634.10	-17359.20
11+10.00	0.02	2.05	32.26	353.76	276.95	17987.86	-17710.91
12+0.00	0.02	0.21	23.29	279.41	277.17	18267.27	-17990.11
12+10.00	0.00	0.08	18.07	206.79	277.25	18474.07	-18196.82
13+0.00	0.00	0.00	12.95	155.12	277.25	18629.18	-18351.93
13+10.00	0.00	0.00	8.98	109.69	277.25	18738.87	-18461.62
14+0.00	0.00	0.02	5.31	71.45	277.27	18810.32	-18533.04
14+10.00	0.06	0.34	3.39	43.47	277.62	18853.78	-18576.17
15+0.00	0.20	1.31	2.29	28.37	278.92	18882.15	-18603.23
15+10.00	0.55	3.72	0.39	13.41	282.65	18895.56	-18612.92
16+0.00	0.45	5.00	0.90	6.48	287.65	18902.04	-18614.39
16+10.00	0.86	6.57	0.11	5.04	294.22	18907.09	-18612.87
17+0.00	0.60	7.28	0.48	2.93	301.50	18910.01	-18608.51
17+10.00	0.51	5.51	0.77	6.26	307.01	18916.27	-18609.26
18+0.00	0.52	5.12	0.61	6.93	312.13	18923.20	-18611.07
18+10.00	0.61	5.66	0.50	5.59	317.79	18928.79	-18611.00
19+0.00	1.61	11.13	0.00	2.53	328.91	18931.32	-18602.40
19+10.00	0.49	10.52	0.96	4.82	339.43	18936.13	-18596.70
20+0.00	0.60	5.45	0.54	7.51	344.89	18943.65	-18598.76
20+10.00	0.51	5.56	0.60	5.70	350.45	18949.35	-18598.91
21+0.00	0.64	5.77	0.18	3.91	356.22	18953.26	-18597.04
21+2.797	0.73	1.92	0.10	0.40	358.14	18953.66	-18595.53

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
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AV. DAS NAÇÕES - LD

Estaca Inicial: 0+0.00

Estaca Final: 134+12.365

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0+10.00	0.82	4.08	0.89	4.47	4.08	4.47	-0.38
1+0.00	1.16	9.88	0.33	6.13	13.96	10.60	3.36
1+10.00	1.51	13.34	0.26	2.94	27.30	13.54	13.76
2+0.00	1.96	17.37	0.17	2.12	44.67	15.66	29.01
2+10.00	1.81	18.87	0.25	2.07	63.54	17.73	45.80
3+0.00	1.84	18.26	0.12	1.82	81.80	19.56	62.24
3+10.00	1.50	16.69	0.19	1.54	98.49	21.09	77.39
4+0.00	1.65	15.62	0.17	1.79	114.10	22.89	91.21
4+10.00	1.60	16.25	0.10	1.33	130.35	24.22	106.13
5+0.00	1.78	16.93	0.08	0.87	147.28	25.09	122.20
5+10.00	2.09	19.36	0.02	0.49	166.65	25.57	141.07
6+0.00	2.67	23.80	0.00	0.11	190.45	25.69	164.76
6+10.00	1.87	22.70	0.09	0.45	213.16	26.14	187.01
7+0.00	1.66	17.63	0.06	0.77	230.78	26.92	203.87
7+10.00	2.13	18.94	0.00	0.32	249.72	27.24	222.48
8+0.00	2.09	21.09	0.00	0.01	270.81	27.26	243.55
8+10.00	1.98	20.32	0.00	0.01	291.13	27.27	263.86
9+0.00	2.89	24.35	0.00	0.00	315.48	27.27	288.21
9+10.00	3.07	29.99	0.00	0.00	345.46	27.27	318.19
10+0.00	2.75	29.09	0.00	0.00	374.55	27.27	347.28
10+10.00	1.39	20.70	0.40	2.02	395.26	29.29	365.97
11+0.00	1.27	13.31	0.16	2.83	408.56	32.12	376.44
11+10.00	2.25	17.57	0.00	0.81	426.13	32.93	393.21
12+0.00	3.53	28.88	0.00	0.00	455.02	32.93	422.09
12+10.00	3.87	37.00	0.00	0.00	492.02	32.93	459.09
13+0.00	1.98	29.26	0.00	0.00	521.27	32.93	488.35
13+10.00	1.40	16.90	0.12	0.58	538.17	33.50	504.67
14+0.00	2.51	19.52	0.00	0.58	557.68	34.08	523.60
14+10.00	3.04	27.74	0.00	0.00	585.42	34.08	551.34
15+0.00	2.93	29.84	0.00	0.00	615.26	34.08	581.18
15+10.00	1.86	23.95	0.00	0.00	639.21	34.08	605.13
16+0.00	0.80	13.32	0.39	1.95	652.53	36.04	616.49
16+10.00	1.98	13.88	0.00	1.95	666.41	37.99	628.42
17+0.00	2.98	24.79	0.00	0.00	691.21	37.99	653.22
17+10.00	3.30	31.40	0.00	0.00	722.61	37.99	684.62
18+0.00	1.88	25.87	0.00	0.00	748.47	37.99	710.48
18+10.00	1.56	17.20	0.00	0.00	765.67	37.99	727.68
19+0.00	2.51	20.38	0.00	0.00	786.05	37.99	748.06
19+10.00	3.04	27.79	0.00	0.00	813.84	37.99	775.85
20+0.00	1.89	24.69	0.00	0.00	838.53	37.99	800.54
20+10.00	1.03	14.60	0.40	2.01	853.13	40.01	813.12
21+0.00	1.18	11.03	0.05	2.27	864.16	42.28	821.88
21+10.00	1.39	12.86	0.00	0.26	877.02	42.54	834.48
22+0.00	1.30	13.47	0.03	0.16	890.49	42.70	847.79
22+10.00	1.05	11.77	0.16	0.95	902.26	43.65	858.61
23+0.00	0.91	9.81	0.43	2.96	912.07	46.61	865.46
23+10.00	0.91	9.09	0.43	4.33	921.16	50.94	870.21
24+0.00	1.08	9.96	0.12	2.77	931.12	53.71	877.41
24+10.00	1.37	12.26	0.02	0.72	943.38	54.43	888.95
25+0.00	1.51	14.37	0.00	0.11	957.74	54.54	903.20
25+10.00	1.21	13.59	0.00	0.00	971.34	54.54	916.80
26+0.00	0.99	11.01	0.33	1.66	982.35	56.20	926.14

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
26+10.00	2.10	15.46	0.00	1.66	997.80	57.86	939.94
27+0.00	2.52	23.12	0.00	0.00	1020.93	57.86	963.06
27+10.00	3.58	30.52	0.00	0.00	1051.45	57.86	993.59
28+0.00	3.62	36.01	0.00	0.00	1087.47	57.86	1029.60
28+10.00	1.59	26.04	0.05	0.27	1113.51	58.13	1055.37
29+0.00	0.75	11.69	0.71	3.84	1125.20	61.97	1063.22
29+10.00	1.03	8.90	0.27	4.90	1134.10	66.87	1067.23
30+0.00	1.63	13.29	0.02	1.42	1147.39	68.30	1079.10
30+10.00	1.60	16.14	0.05	0.35	1163.54	68.65	1094.89
31+0.00	1.30	14.50	0.04	0.46	1178.04	69.10	1108.93
31+10.00	0.73	10.14	0.66	3.49	1188.18	72.59	1115.59
32+0.00	0.66	6.97	1.02	8.37	1195.15	80.96	1114.19
32+10.00	0.87	7.65	0.55	7.84	1202.80	88.80	1114.00
33+0.00	1.35	11.10	0.29	4.21	1213.90	93.01	1120.89
33+10.00	1.15	12.52	0.14	2.14	1226.42	95.15	1131.27
34+0.00	0.93	10.39	0.32	2.31	1236.81	97.46	1139.35
34+10.00	0.84	8.82	0.35	3.36	1245.63	100.82	1144.81
35+0.00	0.83	8.35	0.34	3.44	1253.98	104.27	1149.71
35+10.00	0.83	8.33	0.55	4.44	1262.30	108.70	1153.60
36+0.00	1.24	10.35	0.10	3.24	1272.66	111.94	1160.72
36+10.00	2.19	17.17	0.00	0.50	1289.82	112.44	1177.38
37+0.00	2.58	23.87	0.00	0.00	1313.70	112.44	1201.25
37+10.00	3.62	30.99	0.00	0.00	1344.69	112.44	1232.25
38+0.00	4.25	39.33	0.00	0.00	1384.02	112.44	1271.58
38+10.00	3.60	39.26	0.00	0.00	1423.29	112.44	1310.84
39+0.00	2.40	30.02	0.00	0.00	1453.31	112.44	1340.86
39+10.00	2.24	23.20	0.00	0.00	1476.51	112.44	1364.07
40+0.00	1.41	18.25	0.08	0.38	1494.76	112.83	1381.93
40+10.00	1.65	15.27	0.02	0.46	1510.02	113.29	1396.73
41+0.00	2.11	18.76	0.00	0.08	1528.78	113.37	1415.41
41+10.00	2.40	22.51	0.00	0.00	1551.29	113.37	1437.92
42+0.00	3.00	26.97	0.00	0.00	1578.25	113.37	1464.88
42+10.00	2.57	27.84	0.00	0.00	1606.10	113.37	1492.73
43+0.00	2.89	27.31	0.00	0.00	1633.40	113.37	1520.03
43+10.00	2.94	29.14	0.00	0.00	1662.54	113.37	1549.17
44+0.00	2.90	29.20	0.00	0.00	1691.74	113.37	1578.37
44+10.00	2.20	25.50	0.00	0.00	1717.24	113.37	1603.87
45+0.00	1.89	20.42	0.00	0.00	1737.67	113.37	1624.30
45+10.00	1.45	16.68	0.00	0.00	1754.35	113.37	1640.98
46+0.00	1.28	13.66	0.00	0.00	1768.01	113.37	1654.64
46+10.00	1.20	12.41	0.00	0.00	1780.42	113.37	1667.05
47+0.00	0.83	10.17	0.37	1.84	1790.59	115.22	1675.37
47+10.00	0.81	8.20	0.47	4.19	1798.79	119.41	1679.38
48+0.00	0.81	8.09	0.54	5.05	1806.88	124.46	1682.42
48+10.00	0.61	7.09	1.11	8.27	1813.96	132.72	1681.24
49+0.00	0.64	6.21	0.99	10.56	1820.18	143.28	1676.89
49+10.00	0.83	7.36	0.46	7.28	1827.54	150.57	1676.97
50+0.00	0.81	8.22	0.47	4.67	1835.76	155.24	1680.52
50+10.00	0.87	8.42	0.27	3.72	1844.18	158.96	1685.22
51+0.00	1.16	10.13	0.07	1.72	1854.31	160.67	1693.64
51+10.00	1.09	11.23	0.19	1.29	1865.54	161.96	1703.58
52+0.00	0.80	9.42	0.36	2.73	1874.96	164.69	1710.27
52+10.00	0.60	6.99	1.07	7.15	1881.94	171.84	1710.11
53+0.00	0.60	6.03	1.05	10.60	1887.97	182.44	1705.53
53+10.00	0.66	6.33	0.88	9.64	1894.30	192.08	1702.22
54+0.00	0.93	7.94	0.08	4.80	1902.25	196.87	1705.37
54+10.00	0.94	9.32	0.19	1.36	1911.57	198.23	1713.34
55+0.00	0.61	7.76	1.09	6.42	1919.33	204.65	1714.68
55+10.00	0.71	6.60	0.76	9.28	1925.92	213.93	1711.99
56+0.00	0.85	7.78	0.41	5.87	1933.70	219.80	1713.90

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
56+10.00	1.10	9.74	0.15	2.82	1943.44	222.61	1720.82
57+0.00	1.42	12.58	0.03	0.94	1956.02	223.55	1732.47
57+10.00	1.90	16.59	0.00	0.16	1972.61	223.71	1748.90
58+0.00	2.43	21.66	0.00	0.00	1994.27	223.71	1770.56
58+10.00	2.94	26.85	0.00	0.00	2021.13	223.71	1797.41
59+0.00	3.45	31.94	0.00	0.00	2053.06	223.71	1829.35
59+10.00	3.97	37.07	0.00	0.00	2090.14	223.71	1866.42
60+0.00	4.50	42.51	0.00	0.00	2132.64	223.71	1908.93
60+10.00	4.59	45.44	0.00	0.00	2178.08	223.71	1954.37
61+0.00	3.66	41.26	0.00	0.00	2219.34	223.71	1995.63
61+10.00	2.72	31.93	0.00	0.00	2251.26	223.71	2027.55
62+0.00	1.69	22.08	0.00	0.00	2273.35	223.71	2049.63
62+10.00	0.85	12.73	0.29	1.45	2286.07	225.17	2060.90
63+0.00	0.62	7.38	1.09	6.90	2293.45	232.07	2061.38
63+10.00	0.56	5.91	1.24	11.66	2299.35	243.72	2055.63
64+0.00	0.56	5.59	1.24	12.39	2304.95	256.11	2048.83
64+10.00	0.55	5.56	1.26	12.46	2310.51	268.57	2041.94
65+0.00	0.63	5.90	1.00	11.26	2316.41	279.84	2036.58
65+10.00	0.73	6.80	0.66	8.31	2323.21	288.15	2035.07
66+0.00	0.84	7.87	0.44	5.53	2331.08	293.68	2037.40
66+10.00	0.97	9.04	0.28	3.59	2340.12	297.27	2042.85
67+0.00	1.23	10.98	0.11	1.92	2351.10	299.19	2051.91
67+10.00	1.54	13.87	0.02	0.64	2364.96	299.83	2065.13
68+0.00	1.74	16.42	0.00	0.11	2381.38	299.94	2081.44
68+10.00	1.79	17.65	0.00	0.00	2399.03	299.95	2099.08
69+0.00	1.64	17.17	0.00	0.02	2416.19	299.97	2116.22
69+10.00	1.31	14.75	0.06	0.32	2430.94	300.29	2130.65
70+0.00	1.02	11.61	0.20	1.30	2442.54	301.59	2140.95
70+10.00	0.73	8.75	0.53	3.67	2451.29	305.26	2146.03
71+0.00	0.56	6.45	1.11	8.21	2457.74	313.47	2144.27
71+10.00	0.41	4.77	1.85	14.84	2462.51	328.31	2134.20
72+0.00	0.60	4.90	1.16	15.18	2467.42	343.49	2123.92
72+10.00	0.59	5.83	1.17	11.72	2473.25	355.22	2118.04
73+0.00	0.94	7.51	0.35	7.65	2480.76	362.86	2117.90
73+10.00	1.97	14.02	0.30	3.40	2494.78	366.26	2128.52
74+0.00	3.35	25.88	0.00	1.57	2520.66	367.83	2152.82
74+10.00	2.08	26.59	0.01	0.06	2547.24	367.89	2179.35
75+0.00	0.85	14.44	0.21	1.11	2561.69	369.00	2192.68
75+10.00	0.63	7.43	0.91	5.58	2569.11	374.59	2194.53
76+0.00	0.61	6.10	1.14	10.31	2575.22	384.90	2190.32
76+10.00	0.53	5.55	1.41	12.85	2580.77	397.75	2183.02
77+0.00	0.40	4.51	1.81	16.22	2585.28	413.97	2171.31
77+10.00	0.45	4.20	1.37	15.93	2589.48	429.90	2159.57
78+0.00	0.55	4.97	0.97	11.70	2594.45	441.60	2152.85
78+10.00	0.57	5.58	0.82	8.93	2600.03	450.53	2149.50
79+0.00	0.63	6.02	0.69	7.52	2606.05	458.05	2147.99
79+10.00	0.66	6.48	0.64	6.62	2612.53	464.67	2147.85
80+0.00	0.68	6.68	0.58	6.08	2619.21	470.75	2148.46
80+10.00	0.68	6.80	0.53	5.53	2626.01	476.28	2149.73
81+0.00	0.72	7.05	0.44	4.82	2633.05	481.10	2151.95
81+10.00	0.81	7.66	0.35	3.94	2640.72	485.05	2155.67
82+0.00	0.79	7.99	0.30	3.25	2648.71	488.30	2160.41
82+10.00	0.80	7.97	0.32	3.09	2656.69	491.39	2165.30
83+0.00	0.97	8.89	0.18	2.51	2665.57	493.90	2171.68
83+10.00	1.75	13.60	0.00	0.92	2679.18	494.82	2184.36
84+0.00	2.42	20.86	0.00	0.00	2700.04	494.82	2205.22
84+10.00	2.87	26.47	0.00	0.00	2726.51	494.82	2231.69
85+0.00	2.89	28.77	0.00	0.00	2755.28	494.82	2260.46
85+10.00	2.41	26.49	0.00	0.00	2781.77	494.82	2286.95
86+0.00	1.95	21.83	0.00	0.00	2803.60	494.82	2308.78

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
86+10.00	1.51	17.31	0.20	1.02	2820.91	495.84	2325.07
87+0.00	1.69	15.99	0.27	2.39	2836.90	498.23	2338.67
87+10.00	1.46	15.76	0.15	2.13	2852.66	500.36	2352.30
88+0.00	1.17	13.19	0.25	2.04	2865.85	502.41	2363.44
88+10.00	1.60	13.87	0.15	2.00	2879.72	504.41	2375.31
89+0.00	0.72	11.59	1.01	5.80	2891.31	510.21	2381.10
89+10.00	0.95	8.32	0.54	7.79	2899.63	517.99	2381.64
90+0.00	2.22	15.86	0.01	2.78	2915.49	520.77	2394.71
90+10.00	3.98	31.02	0.00	0.07	2946.51	520.84	2425.67
91+0.00	1.97	29.74	0.14	0.71	2976.25	521.54	2454.71
91+10.00	2.69	23.31	0.00	0.71	2999.57	522.26	2477.31
92+0.00	5.75	42.22	0.00	0.00	3041.79	522.26	2519.52
92+10.00	3.24	44.93	0.00	0.00	3086.72	522.26	2564.45
93+0.00	4.20	37.17	0.00	0.00	3123.89	522.26	2601.63
93+10.00	3.45	38.26	0.00	0.00	3162.15	522.26	2639.89
94+0.00	1.30	23.76	0.43	2.13	3185.91	524.40	2661.51
94+10.00	1.46	13.80	0.00	2.15	3199.71	526.55	2673.16
95+0.00	0.77	11.19	0.12	0.60	3210.89	527.14	2683.75
95+10.00	0.57	6.73	0.90	5.10	3217.62	532.24	2685.38
96+0.00	0.53	5.52	1.12	10.14	3223.13	542.38	2680.75
96+10.00	0.63	5.81	0.30	7.10	3228.95	549.48	2679.47
97+0.00	0.63	6.28	0.70	4.99	3235.23	554.47	2680.76
97+10.00	0.40	5.11	1.94	13.24	3240.33	567.71	2672.63
98+0.00	0.11	2.54	3.92	29.30	3242.87	597.01	2645.86
98+10.00	0.00	0.57	5.67	47.98	3243.44	644.98	2598.45
99+0.00	0.00	0.00	5.66	57.57	3243.44	702.55	2540.90
99+10.00	0.00	0.01	8.27	72.74	3243.46	775.29	2468.17
100+0.00	0.03	0.14	7.55	82.85	3243.60	858.14	2385.46
100+10.00	0.39	2.26	3.90	56.58	3245.86	914.71	2331.15
101+0.00	2.62	15.54	0.07	19.54	3261.39	934.25	2327.15
101+10.00	4.56	36.52	0.00	0.32	3297.91	934.57	2363.34
102+0.00	6.41	54.97	0.00	0.00	3352.89	934.57	2418.32
102+10.00	5.83	60.85	0.00	0.00	3413.74	934.57	2479.17
103+0.00	4.46	51.21	0.00	0.00	3464.95	934.57	2530.38
103+10.00	3.83	41.45	0.00	0.00	3506.39	934.57	2571.82
104+0.00	3.03	34.31	0.00	0.00	3540.70	934.57	2606.13
104+10.00	2.82	29.26	0.00	0.00	3569.96	934.57	2635.39
105+0.00	2.38	25.98	0.00	0.00	3595.94	934.57	2661.37
105+10.00	1.85	21.11	0.00	0.00	3617.05	934.57	2682.48
106+0.00	1.49	16.66	0.00	0.01	3633.71	934.58	2699.13
106+10.00	1.12	13.03	0.09	0.47	3646.74	935.05	2711.69
107+0.00	0.94	10.29	0.13	1.13	3657.03	936.18	2720.85
107+10.00	1.40	11.69	0.05	0.93	3668.72	937.11	2731.61
108+0.00	1.63	15.17	0.00	0.26	3683.89	937.37	2746.52
108+10.00	2.67	21.53	0.00	0.00	3705.43	937.38	2768.05
109+0.00	2.84	27.57	0.00	0.00	3733.00	937.38	2795.62
109+10.00	2.95	28.95	0.00	0.00	3761.94	937.38	2824.57
110+0.00	3.29	31.17	0.00	0.00	3793.11	937.38	2855.73
110+10.00	2.63	29.60	0.00	0.03	3822.71	937.40	2885.30
111+0.00	3.41	30.23	0.00	0.03	3852.94	937.43	2915.51
111+10.00	3.62	35.16	0.00	0.00	3888.09	937.43	2950.66
112+0.00	3.88	37.49	0.00	0.00	3925.58	937.43	2988.15
112+10.00	4.22	40.49	0.00	0.00	3966.07	937.43	3028.64
113+0.00	3.59	39.05	0.00	0.00	4005.12	937.43	3067.69
113+10.00	3.28	34.40	0.00	0.00	4039.52	937.43	3102.09
114+0.00	0.98	21.01	0.50	2.64	4060.53	940.07	3120.45
114+10.00	0.85	9.10	0.38	4.44	4069.63	944.52	3125.11
115+0.00	0.09	4.70	3.57	19.76	4074.33	964.28	3110.04
115+10.00	0.12	1.04	3.51	35.40	4075.36	999.68	3075.68
116+0.00	0.00	0.60	46.49	250.00	4075.96	1249.68	2826.28

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
116+10.00	0.00	0.00	152.56	995.28	4075.96	2244.96	1831.00
117+0.00	0.00	0.00	83.34	1179.53	4075.96	3424.49	651.47
117+10.00	0.03	0.13	22.00	526.71	4076.09	3951.20	124.89
118+0.00	0.16	0.95	2.80	123.99	4077.03	4075.19	1.84
118+10.00	0.09	1.29	3.45	31.27	4078.32	4106.46	-28.15
119+0.00	2.46	12.78	0.00	17.27	4091.09	4123.74	-32.64
119+10.00	1.48	19.70	0.15	0.75	4110.80	4124.49	-13.69
120+0.00	4.71	30.96	0.00	0.75	4141.75	4125.24	16.52
120+10.00	4.87	47.91	0.00	0.00	4189.66	4125.24	64.43
121+0.00	4.78	48.26	0.00	0.00	4237.92	4125.24	112.69
121+10.00	4.09	44.35	0.00	0.00	4282.27	4125.24	157.04
122+0.00	2.51	33.01	0.00	0.00	4315.28	4125.24	190.05
122+10.00	1.42	19.85	0.32	1.59	4335.13	4126.83	208.31
123+0.00	0.73	10.76	0.96	6.39	4345.90	4133.21	212.68
123+10.00	0.85	7.90	0.85	9.05	4353.80	4142.26	211.54
124+0.00	0.91	8.82	0.83	8.44	4362.62	4150.70	211.92
124+10.00	0.96	9.36	0.60	7.16	4371.98	4157.86	214.12
125+0.00	0.83	8.92	0.62	6.11	4380.91	4163.97	216.94
125+10.00	1.79	13.11	0.06	3.39	4394.02	4167.36	226.66
126+0.00	2.61	22.00	0.00	0.29	4416.02	4167.65	248.37
126+10.00	1.61	21.12	0.09	0.43	4437.13	4168.09	269.05
127+0.00	2.15	18.82	0.00	0.43	4455.96	4168.52	287.43
127+10.00	1.97	20.61	0.00	0.00	4476.57	4168.52	308.05
128+0.00	1.87	19.18	0.00	0.00	4495.75	4168.52	327.23
128+10.00	2.05	19.59	0.00	0.00	4515.34	4168.52	346.82
129+0.00	2.21	21.29	0.00	0.00	4536.63	4168.52	368.11
129+10.00	2.48	23.41	0.00	0.00	4560.04	4168.52	391.51
130+0.00	2.43	24.50	0.00	0.00	4584.54	4168.52	416.02
130+10.00	2.27	23.46	0.00	0.00	4608.00	4168.52	439.48
131+0.00	2.08	21.76	0.06	0.29	4629.76	4168.81	460.95
131+10.00	2.87	24.76	0.00	0.29	4654.52	4169.10	485.42
132+0.00	2.80	28.32	0.00	0.00	4682.85	4169.10	513.75
132+10.00	3.47	31.33	0.00	0.00	4714.18	4169.10	545.08
133+0.00	2.97	32.18	0.00	0.00	4746.35	4169.10	577.25
133+10.00	1.98	24.71	0.00	0.01	4771.06	4169.11	601.95
134+0.00	2.15	20.64	0.00	0.01	4791.69	4169.13	622.57
134+10.00	1.04	15.97	0.37	1.87	4807.66	4171.00	636.66
134+12.365	1.06	2.48	0.33	0.83	4810.14	4171.83	638.32

AV. DAS NAÇÕES - LE

Estaca Inicial: 0+0.00

Estaca Final: 132+16.853

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	1.39	0.00	0.44	0.00	0.00	0.00	0.00
0+10.00	0.93	11.60	0.91	6.75	11.60	6.75	4.85
1+0.00	0.60	7.68	1.36	11.34	19.28	18.09	1.19
1+10.00	0.69	6.46	0.92	11.38	25.74	29.48	-3.74
2+0.00	0.99	8.41	0.53	7.22	34.15	36.70	-2.55
2+10.00	1.06	10.27	0.47	5.02	44.42	41.72	2.70
3+0.00	1.24	11.52	0.33	4.03	55.94	45.75	10.19
3+10.00	1.24	12.40	0.42	3.76	68.35	49.52	18.83
4+0.00	1.15	11.92	0.54	4.80	80.27	54.32	25.95
4+10.00	1.32	12.23	0.43	4.86	92.50	59.18	33.32
5+0.00	1.73	15.24	0.19	3.07	107.75	62.25	45.49
5+10.00	1.82	17.77	0.19	1.89	125.51	64.14	61.37
6+0.00	2.30	20.62	0.06	1.25	146.14	65.39	80.75
6+10.00	1.55	19.24	0.30	1.80	165.37	67.19	98.18
7+0.00	1.11	13.29	0.69	4.95	178.66	72.15	106.52

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
7+10.00	1.05	10.80	0.76	7.27	189.46	79.42	110.04
8+0.00	1.01	10.28	0.57	6.67	199.74	86.09	113.65
8+10.00	0.63	8.17	1.48	10.27	207.91	96.36	111.55
9+0.00	0.87	7.48	1.07	12.77	215.38	109.13	106.25
9+10.00	1.21	10.39	0.56	8.13	225.78	117.27	108.51
10+0.00	1.23	12.34	0.53	5.40	238.12	122.66	115.45
10+10.00	1.23	12.28	0.51	5.22	250.39	127.89	122.51
11+0.00	1.06	11.45	0.59	5.49	261.84	133.37	128.47
11+10.00	1.16	11.12	0.70	6.44	272.96	139.81	133.15
12+0.00	1.76	14.61	0.22	4.63	287.57	144.44	143.13
12+10.00	1.52	16.40	0.24	2.31	303.97	146.75	157.22
13+0.00	1.96	17.42	0.22	2.29	321.39	149.04	172.35
13+10.00	1.82	18.92	0.21	2.15	340.31	151.19	189.12
14+0.00	1.32	15.70	0.72	4.66	356.01	155.86	200.16
14+10.00	1.60	14.60	0.33	5.26	370.61	161.12	209.49
15+0.00	1.88	17.38	0.15	2.36	387.99	163.48	224.51
15+10.00	2.26	20.69	0.16	1.54	408.68	165.01	243.66
16+0.00	2.18	22.19	0.09	1.25	430.87	166.26	264.60
16+10.00	1.49	18.35	0.33	2.11	449.22	168.37	280.85
17+0.00	1.89	16.93	0.26	2.97	466.15	171.34	294.81
17+10.00	2.65	22.70	0.06	1.61	488.85	172.95	315.90
18+0.00	2.55	25.97	0.03	0.47	514.82	173.42	341.40
18+10.00	2.18	23.65	0.22	1.26	538.47	174.68	363.79
19+0.00	1.82	20.04	0.31	2.66	558.51	177.34	381.17
19+10.00	1.61	17.15	0.42	3.64	575.66	180.98	394.68
20+0.00	1.73	16.71	0.25	3.33	592.37	184.31	408.06
20+10.00	1.90	18.17	0.27	2.62	610.54	186.93	423.60
21+0.00	2.26	20.81	0.14	2.05	631.34	188.98	442.36
21+10.00	1.79	20.28	0.22	1.79	651.62	190.77	460.85
22+0.00	1.41	16.04	0.44	3.32	667.67	194.09	473.58
22+10.00	1.12	12.67	0.78	6.11	680.34	200.20	480.14
23+0.00	1.32	12.21	0.66	7.19	692.55	207.39	485.16
23+10.00	1.18	12.53	0.59	6.26	705.09	213.65	491.44
24+0.00	0.99	10.85	0.78	6.86	715.94	220.51	495.43
24+10.00	1.03	10.10	0.74	7.59	726.03	228.10	497.94
25+0.00	1.22	11.28	0.66	7.02	737.32	235.11	502.20
25+10.00	1.73	14.76	0.44	5.51	752.07	240.63	511.45
26+0.00	1.77	17.51	0.34	3.86	769.58	244.49	525.09
26+10.00	1.59	16.82	0.94	6.39	786.41	250.88	535.53
27+0.00	1.09	13.39	1.21	10.74	799.80	261.61	538.18
27+10.00	1.00	10.41	1.37	12.86	810.21	274.48	535.73
28+0.00	1.25	11.22	1.10	12.31	821.42	286.79	534.63
28+10.00	0.97	11.11	1.32	12.09	832.53	298.88	533.65
29+0.00	0.82	8.95	1.63	14.78	841.48	313.66	527.82
29+10.00	0.48	6.49	2.02	18.27	847.97	331.93	516.03
30+0.00	0.64	5.63	1.08	15.51	853.60	347.45	506.15
30+10.00	1.34	9.93	0.21	6.44	863.52	353.89	509.64
31+0.00	0.93	11.36	0.83	5.19	874.88	359.07	515.81
31+10.00	0.94	9.38	1.05	9.42	884.26	368.50	515.76
32+0.00	0.76	8.51	1.33	11.93	892.77	380.43	512.33
32+10.00	0.57	6.64	1.66	15.00	899.40	395.43	503.98
33+0.00	0.55	5.58	1.49	15.80	904.99	411.22	493.77
33+10.00	0.61	5.76	1.64	15.66	910.74	426.89	483.86
34+0.00	0.75	6.42	0.86	12.84	917.17	439.72	477.45
34+10.00	1.26	9.79	0.64	7.64	926.96	447.36	479.60
35+0.00	2.06	16.63	0.11	3.71	943.59	451.07	492.52
35+10.00	1.20	16.31	0.26	1.84	959.90	452.91	506.98
36+0.00	0.86	10.29	0.00	1.31	970.19	454.22	515.97
36+10.00	1.51	11.80	0.00	0.00	981.99	454.22	527.77
37+0.00	2.18	18.51	0.00	0.00	1000.50	454.22	546.28

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
37+10.00	2.09	21.35	0.00	0.02	1021.84	454.24	567.60
38+0.00	2.97	25.29	0.00	0.02	1047.13	454.27	592.87
38+10.00	2.74	28.53	0.00	0.02	1075.66	454.28	621.38
39+0.00	1.58	21.59	0.98	4.93	1097.26	459.21	638.05
39+10.00	2.29	19.38	0.53	7.57	1116.64	466.78	649.86
40+0.00	0.71	15.01	0.79	6.62	1131.65	473.40	658.25
40+10.00	0.48	5.93	1.78	12.88	1137.57	486.28	651.30
41+0.00	0.61	5.46	1.35	15.66	1143.04	501.94	641.10
41+10.00	0.77	6.94	1.05	12.02	1149.98	513.95	636.02
42+0.00	1.11	9.41	0.69	8.69	1159.39	522.64	636.74
42+10.00	1.46	12.82	0.39	5.40	1172.21	528.04	644.17
43+0.00	1.65	15.53	0.25	3.24	1187.74	531.29	656.45
43+10.00	1.76	17.04	0.21	2.30	1204.77	533.59	671.18
44+0.00	1.52	16.37	0.38	2.94	1221.14	536.54	684.61
44+10.00	1.54	15.30	0.31	3.48	1236.44	540.01	696.43
45+0.00	1.67	16.09	0.24	2.75	1252.53	542.76	709.77
45+10.00	2.08	18.75	0.09	1.66	1271.28	544.42	726.86
46+0.00	1.49	17.82	0.47	2.81	1289.10	547.23	741.86
46+10.00	1.27	13.77	0.90	6.85	1302.87	554.08	748.79
47+0.00	1.12	11.95	0.66	7.78	1314.82	561.86	752.96
47+10.00	2.42	17.72	0.00	3.29	1332.54	565.16	767.38
48+0.00	2.39	24.06	0.00	0.03	1356.61	565.19	791.42
48+10.00	1.98	21.85	0.03	0.19	1378.46	565.37	813.09
49+0.00	1.18	15.81	0.41	2.21	1394.27	567.59	826.68
49+10.00	1.23	11.88	0.48	4.51	1406.15	572.10	834.05
50+0.00	1.69	14.58	0.25	3.64	1420.73	575.74	844.99
50+10.00	1.85	17.69	0.15	1.95	1438.42	577.69	860.72
51+0.00	2.31	20.81	0.05	0.97	1459.23	578.67	880.56
51+10.00	2.16	22.38	0.07	0.60	1481.61	579.27	902.34
52+0.00	1.68	19.22	0.19	1.30	1500.83	580.57	920.26
52+10.00	1.39	15.36	0.46	3.26	1516.18	583.83	932.35
53+0.00	1.19	12.92	0.87	6.65	1529.11	590.48	938.62
53+10.00	1.26	12.27	1.16	10.12	1541.38	600.61	940.77
54+0.00	1.60	14.31	0.45	8.05	1555.68	608.66	947.02
54+10.00	2.71	21.58	0.01	2.34	1577.26	611.00	966.27
55+0.00	3.19	29.53	0.00	0.07	1606.80	611.07	995.73
55+10.00	3.19	31.90	0.00	0.00	1638.69	611.07	1027.63
56+0.00	3.35	32.68	0.00	0.00	1671.38	611.07	1060.31
56+10.00	3.43	33.92	0.00	0.00	1705.30	611.07	1094.23
57+0.00	3.51	34.73	0.00	0.00	1740.03	611.07	1128.97
57+10.00	4.54	40.28	0.00	0.00	1780.31	611.07	1169.25
58+0.00	5.35	49.49	0.00	0.00	1829.81	611.07	1218.74
58+10.00	5.70	55.27	0.00	0.00	1885.08	611.07	1274.01
59+0.00	6.04	58.71	0.00	0.00	1943.78	611.07	1332.72
59+10.00	6.39	62.14	0.00	0.00	2005.92	611.07	1394.86
60+0.00	6.72	65.55	0.00	0.00	2071.47	611.07	1460.40
60+10.00	7.08	68.83	0.00	0.00	2140.30	611.07	1529.23
61+0.00	6.00	65.42	0.00	0.00	2205.72	611.07	1594.65
61+10.00	4.54	52.70	0.00	0.00	2258.41	611.07	1647.35
62+0.00	3.02	37.76	0.00	0.00	2296.17	611.07	1685.10
62+10.00	1.64	23.26	0.14	0.70	2319.43	611.76	1707.67
63+0.00	1.12	13.78	0.08	1.12	2333.21	612.89	1720.32
63+10.00	1.03	10.74	0.12	1.00	2343.95	613.89	1730.06
64+0.00	0.95	9.89	0.14	1.28	2353.84	615.17	1738.67
64+10.00	0.86	9.05	0.17	1.56	2362.89	616.73	1746.16
65+0.00	0.76	8.13	0.19	1.80	2371.02	618.53	1752.50
65+10.00	0.86	8.12	0.13	1.59	2379.15	620.11	1759.03
66+0.00	0.99	9.23	0.07	0.99	2388.38	621.11	1767.27
66+10.00	1.06	10.21	0.05	0.63	2398.59	621.73	1776.86
67+0.00	1.15	11.02	0.03	0.42	2409.61	622.15	1787.46

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
67+10.00	1.30	12.23	0.00	0.18	2421.84	622.33	1799.51
68+0.00	1.35	13.24	0.00	0.05	2435.08	622.38	1812.70
68+10.00	1.23	12.89	0.02	0.10	2447.97	622.48	1825.49
69+0.00	1.01	11.17	0.08	0.48	2459.14	622.96	1836.18
69+10.00	0.64	8.26	0.40	2.38	2467.40	625.34	1842.06
70+0.00	0.51	5.77	0.77	5.87	2473.17	631.21	1841.96
70+10.00	0.38	4.42	1.30	10.35	2477.59	641.56	1836.03
71+0.00	0.24	3.08	1.95	16.25	2480.67	657.81	1822.86
71+10.00	0.12	1.82	2.76	23.55	2482.49	681.36	1801.13
72+0.00	0.05	0.87	3.65	32.06	2483.36	713.42	1769.95
72+10.00	0.12	0.89	2.93	32.73	2484.25	746.15	1738.11
73+0.00	0.21	1.66	2.19	25.57	2485.91	771.72	1714.19
73+10.00	0.37	2.93	1.36	17.71	2488.85	789.43	1699.42
74+0.00	0.56	4.66	0.58	9.67	2493.50	799.10	1694.40
74+10.00	1.26	9.12	0.02	3.01	2502.63	802.11	1700.52
75+0.00	0.83	10.45	0.08	0.49	2513.08	802.60	1710.48
75+10.00	0.61	7.17	0.27	1.72	2520.25	804.32	1715.93
76+0.00	0.58	5.93	0.45	3.57	2526.17	807.89	1718.28
76+10.00	0.47	5.21	0.93	6.91	2531.39	814.79	1716.59
77+0.00	0.36	4.14	1.34	11.35	2535.53	826.14	1709.39
77+10.00	0.44	4.00	0.87	11.03	2539.53	837.17	1702.36
78+0.00	0.52	4.78	0.55	7.11	2544.32	844.28	1700.04
78+10.00	0.62	5.71	0.20	3.76	2550.03	848.04	1701.99
79+0.00	0.93	7.75	0.10	1.50	2557.78	849.53	1708.25
79+10.00	1.00	9.62	0.04	0.72	2567.41	850.25	1717.15
80+0.00	0.46	7.31	1.31	6.77	2574.72	857.02	1717.69
80+10.00	0.88	6.72	0.48	8.95	2581.43	865.97	1715.46
81+0.00	1.55	12.14	0.00	2.42	2593.57	868.39	1725.18
81+10.00	1.82	16.84	0.00	0.02	2610.41	868.42	1742.00
82+0.00	1.71	17.64	0.03	0.14	2628.06	868.56	1759.50
82+10.00	1.45	15.80	0.23	1.28	2643.85	869.84	1774.02
83+0.00	1.60	15.22	0.27	2.48	2659.07	872.32	1786.76
83+10.00	1.73	16.61	0.35	3.08	2675.69	875.40	1800.29
84+0.00	1.68	17.05	0.35	3.50	2692.74	878.90	1813.85
84+10.00	2.12	19.00	0.18	2.68	2711.74	881.58	1830.17
85+0.00	2.01	20.64	0.23	2.05	2732.38	883.63	1848.76
85+10.00	3.61	28.12	0.00	1.14	2760.50	884.77	1875.74
86+0.00	3.96	37.87	0.00	0.00	2798.37	884.77	1913.60
86+10.00	0.42	21.91	1.36	6.82	2820.28	891.59	1928.69
87+0.00	0.25	3.34	4.71	30.36	2823.62	921.95	1901.67
87+10.00	0.43	3.38	3.93	43.18	2827.01	965.14	1861.87
88+0.00	0.73	5.79	3.09	35.09	2832.79	1000.22	1832.57
88+10.00	1.53	11.27	0.02	15.56	2844.06	1015.78	1828.27
89+0.00	0.49	10.06	3.13	15.77	2854.12	1031.55	1822.57
89+10.00	0.47	4.80	3.40	32.62	2858.92	1064.17	1794.75
90+0.00	1.40	9.36	2.35	28.72	2868.28	1092.89	1775.39
90+10.00	2.49	19.46	2.06	22.04	2887.74	1114.94	1772.80
91+0.00	1.26	18.78	2.10	20.81	2906.52	1135.75	1770.77
91+10.00	1.99	16.28	2.07	20.84	2922.80	1156.59	1766.21
92+0.00	3.35	26.72	1.89	19.78	2949.52	1176.37	1773.15
92+10.00	2.59	29.71	1.70	17.93	2979.23	1194.30	1784.93
93+0.00	3.54	30.65	0.91	13.06	3009.88	1207.36	1802.53
93+10.00	3.54	35.41	0.97	9.44	3045.29	1216.80	1828.50
94+0.00	2.23	28.85	2.28	16.29	3074.15	1233.09	1841.06
94+10.00	2.80	25.12	2.78	25.33	3099.27	1258.41	1840.86
95+0.00	2.84	28.17	2.91	28.48	3127.44	1286.89	1840.55
95+10.00	3.65	32.42	2.25	25.84	3159.86	1312.74	1847.12
96+0.00	4.18	39.12	1.26	17.59	3198.98	1330.33	1868.65
96+10.00	3.63	40.93	0.46	8.25	3239.90	1338.57	1901.33
97+0.00	0.87	24.41	0.63	5.14	3264.31	1343.72	1920.59

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
97+10.00	0.45	6.91	1.70	11.65	3271.21	1355.37	1915.84
98+0.00	0.21	3.26	2.92	23.32	3274.47	1378.69	1895.78
98+10.00	0.34	2.75	1.77	23.44	3277.22	1402.14	1875.09
99+0.00	1.53	9.36	0.57	11.70	3286.58	1413.84	1872.74
99+10.00	5.34	34.35	0.00	2.85	3320.93	1416.70	1904.23
100+0.00	9.53	74.37	0.00	0.00	3395.30	1416.70	1978.60
100+10.00	10.99	102.62	0.00	0.00	3497.92	1416.70	2081.22
101+0.00	9.55	102.71	0.00	0.00	3600.62	1416.70	2183.93
101+10.00	8.64	90.92	0.00	0.00	3691.54	1416.70	2274.84
102+0.00	9.11	88.72	0.00	0.00	3780.26	1416.70	2363.56
102+10.00	7.55	83.31	0.00	0.00	3863.57	1416.70	2446.87
103+0.00	6.18	68.65	0.00	0.00	3932.22	1416.70	2515.52
103+10.00	5.97	60.74	0.00	0.00	3992.96	1416.70	2576.26
104+0.00	4.54	52.57	0.00	0.00	4045.53	1416.70	2628.84
104+10.00	2.20	33.70	0.36	1.82	4079.23	1418.51	2660.72
105+0.00	2.21	22.04	0.39	3.78	4101.27	1422.29	2678.98
105+10.00	1.67	19.41	0.72	5.58	4120.68	1427.87	2692.80
106+0.00	1.32	14.97	1.18	9.52	4135.65	1437.40	2698.25
106+10.00	1.65	14.89	0.54	8.58	4150.53	1445.98	2704.56
107+0.00	0.92	12.85	1.20	8.67	4163.38	1454.65	2708.73
107+10.00	0.91	9.13	0.94	10.71	4172.51	1465.36	2707.15
108+0.00	0.80	8.55	3.74	23.41	4181.06	1488.78	2692.28
108+10.00	0.41	6.03	6.28	50.12	4187.09	1538.89	2648.19
109+0.00	0.15	2.80	8.67	74.76	4189.89	1613.66	2576.23
109+10.00	0.00	0.77	12.21	104.40	4190.66	1718.05	2472.61
110+0.00	0.00	0.00	14.05	131.29	4190.66	1849.34	2341.31
110+10.00	0.00	0.00	15.72	148.84	4190.66	1998.18	2192.47
111+0.00	0.00	0.00	13.28	144.99	4190.66	2143.18	2047.48
111+10.00	0.00	0.00	13.57	134.24	4190.66	2277.42	1913.24
112+0.00	0.00	0.00	21.41	169.67	4190.66	2447.09	1743.57
112+10.00	0.01	0.06	28.08	238.30	4190.72	2685.39	1505.33
113+0.00	0.00	0.06	27.30	276.91	4190.78	2962.30	1228.48
113+10.00	0.00	0.03	31.54	294.24	4190.81	3256.54	934.28
114+0.00	0.00	0.03	42.95	372.49	4190.85	3629.02	561.82
114+10.00	0.00	0.00	183.71	1133.31	4190.85	4762.34	-571.49
115+0.00	0.00	0.00	162.40	1730.56	4190.85	6492.90	-2302.05
115+10.00	3.83	19.13	130.90	1466.51	4209.97	7959.41	-3749.44
116+0.00	0.67	22.48	111.53	1212.14	4232.46	9171.55	-4939.09
116+10.00	0.00	3.36	64.22	878.74	4235.81	10050.29	-5814.48
117+0.00	0.20	0.99	21.95	430.87	4236.80	10481.16	-6244.35
117+10.00	0.40	2.98	18.37	201.62	4239.79	10682.78	-6442.99
118+0.00	0.74	5.71	4.86	116.17	4245.50	10798.95	-6553.44
118+10.00	2.77	17.55	0.27	25.68	4263.05	10824.62	-6561.57
119+0.00	4.56	36.64	0.00	1.37	4299.69	10825.99	-6526.30
119+10.00	10.54	75.50	0.00	0.00	4375.19	10825.99	-6450.80
120+0.00	9.62	100.77	0.00	0.00	4475.95	10825.99	-6350.04
120+10.00	3.80	66.99	0.00	0.00	4542.95	10825.99	-6283.04
121+0.00	2.63	32.12	0.01	0.05	4575.06	10826.04	-6250.98
121+10.00	1.60	21.16	0.13	0.71	4596.22	10826.75	-6230.53
122+0.00	2.80	22.03	0.00	0.65	4618.25	10827.40	-6209.15
122+10.00	4.14	34.73	0.00	0.00	4652.99	10827.40	-6174.42
123+0.00	5.11	46.40	0.00	0.00	4699.39	10827.40	-6128.01
123+10.00	5.53	53.20	0.00	0.00	4752.59	10827.40	-6074.81
124+0.00	6.23	58.81	0.00	0.00	4811.40	10827.40	-6016.00
124+10.00	6.13	61.81	0.00	0.00	4873.21	10827.40	-5954.19
125+0.00	5.95	60.39	0.00	0.00	4933.60	10827.40	-5893.80
125+10.00	6.63	62.88	0.00	0.00	4996.47	10827.40	-5830.93
126+0.00	6.52	65.73	0.00	0.00	5062.20	10827.40	-5765.20
126+10.00	6.13	63.24	0.00	0.00	5125.44	10827.40	-5701.96
127+0.00	5.28	57.05	0.00	0.00	5182.49	10827.40	-5644.91

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
127+10.00	4.40	48.42	0.00	0.00	5230.91	10827.40	-5596.49
128+0.00	5.08	47.44	0.00	0.00	5278.35	10827.40	-5549.05
128+10.00	3.75	44.19	0.00	0.00	5322.53	10827.40	-5504.87
129+0.00	4.19	39.72	0.00	0.00	5362.25	10827.40	-5465.15
129+10.00	3.87	40.30	0.00	0.00	5402.55	10827.40	-5424.85
130+0.00	3.36	36.16	0.00	0.00	5438.71	10827.40	-5388.69
130+10.00	2.47	29.16	0.00	0.00	5467.87	10827.40	-5359.53
131+0.00	2.73	26.00	0.00	0.00	5493.88	10827.40	-5333.53
131+10.00	2.15	24.40	0.00	0.00	5518.28	10827.40	-5309.12
132+0.00	1.49	18.18	0.07	0.36	5536.46	10827.76	-5291.30
132+10.00	1.14	13.12	0.25	1.60	5549.58	10829.37	-5279.78
132+16.853	1.20	8.02	0.28	1.83	5557.60	10831.19	-5273.59

AV. DELFIM MOREIRA - LD

Estaca Inicial: 0+0.00

Estaca Final: 18+4.245

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	1.56	0.00	0.69	0.00	0.00	0.00	0.00
0+10.00	2.16	19.25	0.29	4.76	19.25	4.76	14.49
1+0.00	2.13	22.13	0.25	2.64	41.38	7.40	33.98
1+10.00	1.54	18.95	0.62	4.22	60.34	11.62	48.71
2+0.00	0.58	11.02	2.57	15.53	71.35	27.15	44.20
2+10.00	1.72	11.74	0.06	12.97	83.10	40.12	42.97
3+0.00	2.75	22.57	0.45	2.55	105.66	42.68	62.99
3+10.00	1.60	22.00	0.97	7.06	127.66	49.73	77.93
4+0.00	0.71	11.71	1.22	10.87	139.37	60.60	78.77
4+10.00	1.02	8.73	0.91	10.56	148.10	71.17	76.94
5+0.00	1.21	11.28	1.17	10.31	159.38	81.48	77.91
5+10.00	1.42	13.34	1.14	11.44	172.73	92.91	79.81
6+0.00	0.15	7.95	4.55	28.29	180.67	121.20	59.47
6+10.00	0.27	2.10	2.43	34.71	182.78	155.91	26.86
7+0.00	0.56	4.20	0.63	15.22	186.98	171.13	15.85
7+10.00	0.68	6.30	1.02	8.21	193.28	179.35	13.93
8+0.00	1.50	11.03	0.54	7.75	204.30	187.10	17.20
8+10.00	1.69	16.09	0.57	5.52	220.40	192.62	27.78
9+0.00	1.17	14.47	1.48	10.18	234.86	202.80	32.07
9+10.00	1.08	11.42	1.21	13.35	246.28	216.15	30.13
10+0.00	1.24	11.74	0.61	9.02	258.02	225.16	32.86
10+10.00	1.80	15.36	0.45	5.23	273.38	230.39	42.99
11+0.00	1.34	15.84	0.08	2.63	289.22	233.03	56.20
11+10.00	0.96	11.59	0.78	4.29	300.81	237.32	63.50
12+0.00	1.25	11.17	0.90	8.34	311.98	245.66	66.33
12+10.00	1.48	13.79	1.18	10.32	325.77	255.97	69.80
13+0.00	1.05	12.77	1.11	11.34	338.54	267.31	71.23
13+10.00	0.66	8.66	0.56	8.28	347.20	275.59	71.62
14+0.00	0.78	7.32	1.45	9.96	354.52	285.55	68.98
14+10.00	1.19	9.98	1.13	12.76	364.51	298.31	66.20
15+0.00	0.86	10.39	1.55	13.31	374.89	311.61	63.28
15+10.00	0.60	7.40	1.69	16.11	382.29	327.72	54.58
16+0.00	1.90	12.62	0.57	11.21	394.92	338.93	55.99
16+10.00	2.05	19.96	0.39	4.76	414.87	343.69	71.18
17+0.00	1.37	17.30	1.63	9.98	432.17	353.67	78.50
17+10.00	2.15	17.78	1.26	14.29	449.95	367.96	81.99
18+0.00	1.24	17.07	0.11	6.78	467.03	374.74	92.29
18+4.245	0.91	4.55	0.67	1.64	471.58	376.38	95.19

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
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AV. DELFIM MOREIRA - LE

Estaca Inicial: 0+0.00

Estaca Final: 14+17.434

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	2.35	0.00	0.43	0.00	0.00	0.00	0.00
0+10.00	2.03	22.12	0.15	2.87	22.12	2.87	19.25
1+0.00	2.12	20.91	0.04	0.97	43.02	3.84	39.19
1+10.00	2.31	22.30	0.01	0.26	65.32	4.09	61.23
2+0.00	2.23	22.84	0.04	0.23	88.17	4.32	83.85
2+10.00	1.07	16.61	0.57	2.99	104.78	7.32	97.47
3+0.00	1.17	11.29	0.09	3.28	116.07	10.59	105.48
3+10.00	2.97	20.71	0.00	0.46	136.78	11.05	125.73
4+0.00	2.72	28.42	0.00	0.00	165.20	11.05	154.15
4+10.00	0.73	17.31	0.51	2.53	182.51	13.58	168.93
5+0.00	0.74	7.44	0.42	4.63	189.94	18.21	171.73
5+10.00	0.85	8.00	0.24	3.31	197.94	21.52	176.42
6+0.00	0.59	7.24	0.35	2.94	205.18	24.46	180.72
6+10.00	0.25	4.23	2.67	15.06	209.41	39.51	169.89
7+0.00	0.27	2.60	2.69	26.75	212.01	66.27	145.74
7+10.00	0.32	2.95	1.65	21.67	214.96	87.93	127.03
8+0.00	0.42	3.74	1.12	13.83	218.70	101.76	116.93
8+10.00	0.76	5.96	0.36	7.40	224.66	109.16	115.50
9+0.00	1.15	9.60	0.09	2.25	234.26	111.40	122.86
9+10.00	1.30	12.32	0.06	0.73	246.58	112.14	134.44
10+0.00	2.80	20.61	0.00	0.29	267.18	112.42	154.76
10+10.00	1.51	21.66	0.08	0.41	288.84	112.83	176.01
11+0.00	1.80	16.59	0.01	0.46	305.43	113.29	192.14
11+10.00	1.01	14.09	0.20	1.02	319.53	114.31	205.22
12+0.00	0.86	9.43	0.17	1.81	328.96	116.11	212.85
12+10.00	1.41	11.42	0.00	0.85	340.38	116.96	223.42
13+0.00	2.40	19.12	0.00	0.01	359.50	116.97	242.53
13+10.00	0.76	15.86	1.79	8.92	375.37	125.89	249.48
14+0.00	0.55	4.73	3.45	29.06	380.09	154.95	225.15
14+10.00	1.31	6.01	0.36	22.58	386.11	177.53	208.57
14+17.434	1.33	9.54	0.35	2.70	395.65	180.23	215.42

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
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ROTATÓRIA

Estaca Inicial: 0+0.00

Estaca Final: 12+9.856

Estaca	Área de Corte (m2)	Volume de Corte (m3)	Área de Aterro (m2)	Volume Aterro (m3)	Vol. Acum. Corte (m3)	Vol. Acum. Aterro (m3)	Dif. Vol. Acum. (m3)
0+0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00
0+10.00	2.18	15.46	0.00	0.02	15.46	0.02	15.44
1+0.00	2.41	22.06	0.00	0.00	37.52	0.02	37.50
1+10.00	2.20	21.97	0.00	0.04	59.49	0.06	59.43
2+0.00	3.16	25.51	0.00	0.04	85.00	0.10	84.90
2+10.00	3.51	31.90	0.00	0.00	116.90	0.10	116.80
3+0.00	1.92	25.75	0.17	0.95	142.65	1.05	141.60
3+10.00	1.62	16.24	0.66	4.50	158.89	5.55	153.34
4+0.00	1.63	14.65	0.74	7.55	173.54	13.10	160.44
4+10.00	1.49	14.03	0.91	8.86	187.57	21.96	165.61
5+0.00	1.20	12.13	0.68	8.53	199.70	30.49	169.21
5+10.00	0.88	9.43	1.01	8.96	209.13	39.45	169.68
6+0.00	0.97	8.47	0.42	7.54	217.59	46.98	170.61
6+10.00	1.20	10.04	0.34	4.05	227.63	51.03	176.60
7+0.00	0.80	9.28	0.51	4.50	236.91	55.54	181.38
7+10.00	1.46	10.75	0.00	2.71	247.66	58.25	189.41
8+0.00	2.66	20.18	0.00	0.03	267.84	58.28	209.57
8+10.00	1.18	19.02	0.00	0.00	286.86	58.29	228.58
9+0.00	1.87	15.26	0.00	0.00	302.12	58.30	243.83
9+10.00	2.45	21.90	0.00	0.00	324.02	58.30	265.73
10+0.00	0.87	17.05	0.18	0.82	341.08	59.12	281.96
10+10.00	0.90	9.17	0.06	1.12	350.25	60.23	290.02
11+0.00	1.21	10.88	0.02	0.38	361.13	60.61	300.52
11+10.00	1.01	11.46	0.03	0.21	372.59	60.82	311.77
12+0.00	1.37	12.13	0.00	0.13	384.72	60.95	323.77
12+9.856	0.98	11.67	0.00	0.02	396.39	60.97	335.42

7. Relatório de Estaqueamento – Eixo 02

Relatório de Alinhamento Horizontal por Estaca

AV. DELFIM MOREIRA - LE

Estaca	Norte	Este	Observação
0+0,00	8142091,7862666	678524,0526627	
1+0,00	8142110,9341610	678529,8168611	
2+0,00	8142129,6813726	678536,7745833	
3+0,00	8142147,9535891	678544,8982492	
4+0,00	8142165,6783808	678554,1556573	
5+0,00	8142182,7854878	678564,5101119	
6+0,00	8142199,2070991	678575,9205688	
7+0,00	8142214,8781205	678588,3417979	
7+6,066 PI	8142232,9083063	678561,7334608	
8+0,00	8142229,7364334	678601,7245622	
9+0,00	8142243,7231405	678616,0158136	
10+0,00	8142256,7827997	678631,1589026	
11+0,00	8142268,8636434	678647,0938033	
12+0,00	8142279,9177841	678663,7573508	
13+0,00	8142289,9014040	678681,0834922	
13+13,811 PCR	8142296,1497981	678693,3988942	
14+0,00	8142300,4670135	678697,6627422	
14+17,434	8142313,2410344	678690,1233434	

AV. DELFIM MOREIRA - LD

Estaca	Norte	Este	Observação
0+0,00	8142094,4073649	678543,4909805	
1+0,00	8142114,3568956	678543,9343745	
1+3,043 PI	8142117,3467829	678541,3119705	
2+0,00	8142133,6606565	678548,9885994	
2+5,016 PCC	8142138,2758072	678550,9525580	
3+0,00	8142151,7376000	678557,5286547	
4+0,00	8142169,1777404	678567,3113425	
4+1,795 PI	8142171,7053404	678566,2873953	
5+0,00	8142185,9463572	678578,2050547	
5+18,228 PCC	8142200,5842639	678589,0623530	
6+0,00	8142201,9724000	678590,1643477	
7+0,00	8142217,1297351	678603,2058030	
8+0,00	8142231,3012307	678617,3122935	
9+0,00	8142244,4122350	678632,4095094	
10+0,00	8142256,3936822	678648,4179223	
11+0,00	8142267,1824569	678665,2532038	
12+0,00	8142276,7217265	678682,8266695	
12+10,120 PI	8142304,1462981	678670,7350974	
13+0,00	8142284,9612404	678701,0457467	
14+0,00	8142291,8575947	678719,8144616	
15+0,00	8142297,3744612	678739,0339451	

Estaca	Norte	Este	Observação
16+0,00	8142301,4827783	678758,6029535	
17+0,00	8142304,1609044	678778,4184021	
18+0,00	8142305,3947317	678798,3759077	
18+4,245	8142305,4700470	678802,6205773	

AV. DAS NAÇÕES - LE

Estaca	Norte	Este	Observação
0+0,00	8141932,2532688	680020,2188101	
1+0,00	8141941,4475573	680037,9801462	
2+0,00	8141950,6418458	680055,7414822	
3+0,00	8141959,8361343	680073,5028183	
4+0,00	8141969,0304227	680091,2641544	
4+0,836 PI	8141969,4149595	680092,0069945	
5+0,00	8141977,7519433	680109,2620121	
6+0,00	8141986,4528279	680127,2701938	
7+0,00	8141995,1537126	680145,2783754	
8+0,00	8142003,8545973	680163,2865570	
9+0,00	8142012,5554820	680181,2947387	
9+12,939 PI	8142018,1846804	680192,9454652	
10+0,00	8142021,5263006	680199,1652776	
11+0,00	8142030,9918025	680216,7835713	
12+0,00	8142040,4573045	680234,4018650	
13+0,00	8142049,9228064	680252,0201587	
14+0,00	8142059,3883084	680269,6384524	
15+0,00	8142068,8538103	680287,2567461	
16+0,00	8142078,3193122	680304,8750398	
17+0,00	8142087,7848142	680322,4933335	
18+0,00	8142097,2503161	680340,1116272	
19+0,00	8142106,7158181	680357,7299209	
20+0,00	8142116,1813200	680375,3482146	
21+0,00	8142125,6468220	680392,9665083	
22+0,00	8142135,1123239	680410,5848020	
23+0,00	8142144,5778258	680428,2030957	
24+0,00	8142154,0433278	680445,8213894	
25+0,00	8142163,5088297	680463,4396831	
26+0,00	8142172,9743317	680481,0579768	
27+0,00	8142182,4398336	680498,6762705	
28+0,00	8142191,9053355	680516,2945642	
29+0,00	8142201,3708375	680533,9128579	
30+0,00	8142210,8363394	680551,5311516	
31+0,00	8142220,3018414	680569,1494453	
32+0,00	8142229,7673433	680586,7677390	
33+0,00	8142239,2328453	680604,3860328	
33+12,015 PC	8142244,9191630	680614,9700691	
34+0,00	8142248,2198100	680622,2346875	
34+4,823 PT	8142249,7353019	680626,8120151	
35+0,00	8142253,9227825	680641,3999159	

Estaca	Norte	Este	Observação
35+19,168 PC	8142259,2114881	680659,8241476	
36+0,00	8142259,4465026	680660,6219731	
36+11,976 PT	8142264,0276270	680671,6660936	
37+0,00	8142267,8249822	680678,7341731	
38+0,00	8142277,2904842	680696,3524668	
39+0,00	8142286,7559861	680713,9707605	
40+0,00	8142296,2214881	680731,5890542	
41+0,00	8142305,6869900	680749,2073479	
42+0,00	8142315,1524919	680766,8256416	
43+0,00	8142324,6179939	680784,4439353	
44+0,00	8142334,0834958	680802,0622290	
45+0,00	8142343,5489978	680819,6805227	
46+0,00	8142353,0144997	680837,2988164	
47+0,00	8142362,4800016	680854,9171101	
48+0,00	8142371,9455036	680872,5354038	
49+0,00	8142381,4110055	680890,1536975	
49+4,623 PI	8142383,5987772	680894,2258327	
50+0,00	8142390,2207420	680908,1043539	
51+0,00	8142398,8333476	680926,1549225	
52+0,00	8142407,4459531	680944,2054910	
53+0,00	8142416,0585587	680962,2560596	
54+0,00	8142424,6711643	680980,3066281	
55+0,00	8142433,2837699	680998,3571967	
56+0,00	8142441,8963755	681016,4077652	
57+0,00	8142450,5089811	681034,4583338	
58+0,00	8142459,1215867	681052,5089023	
59+0,00	8142467,7341922	681070,5594709	
60+0,00	8142476,3467978	681088,6100394	
60+1,778 PI	8142477,1124277	681090,2146705	
61+0,00	8142483,7157595	681107,1981889	
62+0,00	8142490,9633787	681125,8387902	
63+0,00	8142498,2109979	681144,4793914	
64+0,00	8142505,4586171	681163,1199927	
65+0,00	8142512,7062363	681181,7605940	
66+0,00	8142519,9538556	681200,4011953	
67+0,00	8142527,2014748	681219,0417965	
68+0,00	8142534,4490940	681237,6823978	
69+0,00	8142541,6967132	681256,3229991	
70+0,00	8142548,9443324	681274,9636003	
71+0,00	8142556,1919517	681293,6042016	
72+0,00	8142563,4395709	681312,2448029	
72+6,580 PI	8142565,8240676	681318,3776378	
73+0,00	8142572,3144672	681330,1236538	
74+0,00	8142581,9872535	681347,6290017	
75+0,00	8142591,6600399	681365,1343496	
76+0,00	8142601,3328262	681382,6396975	
77+0,00	8142611,0056125	681400,1450453	
78+0,00	8142620,6783989	681417,6503932	

Estaca	Norte	Este	Observação
79+0,00	8142630,3511852	681435,1557411	
80+0,00	8142640,0239715	681452,6610890	
81+0,00	8142649,6967579	681470,1664369	
82+0,00	8142659,3695442	681487,6717848	
83+0,00	8142669,0423305	681505,1771327	
84+0,00	8142678,7151169	681522,6824805	
85+0,00	8142688,3879032	681540,1878284	
86+0,00	8142698,0606895	681557,6931763	
87+0,00	8142707,7334759	681575,1985242	
88+0,00	8142717,4062622	681592,7038721	
89+0,00	8142727,0790485	681610,2092200	
90+0,00	8142736,7518348	681627,7145678	
91+0,00	8142746,4246212	681645,2199157	
92+0,00	8142756,0974075	681662,7252636	
93+0,00	8142765,7701938	681680,2306115	
94+0,00	8142775,4429802	681697,7359594	
95+0,00	8142785,1157665	681715,2413073	
96+0,00	8142794,7885528	681732,7466552	
96+5,058 PC	8142797,2347895	681737,1737377	
97+0,00	8142807,0587642	681748,2725339	
97+19,937 PT	8142825,6295559	681754,7026167	
98+0,00	8142825,6926130	681754,7051490	
99+0,00	8142845,6765045	681755,5076932	
100+0,00	8142865,6603961	681756,3102373	
101+0,00	8142885,6442877	681757,1127815	
102+0,00	8142905,6281793	681757,9153256	
103+0,00	8142925,6120709	681758,7178698	
104+0,00	8142945,5959625	681759,5204139	
105+0,00	8142965,5798540	681760,3229581	
106+0,00	8142985,5637456	681761,1255022	
107+0,00	8143005,5476372	681761,9280464	
108+0,00	8143025,5315288	681762,7305905	
109+0,00	8143045,5154204	681763,5331347	
110+0,00	8143065,4993120	681764,3356789	
111+0,00	8143085,4832036	681765,1382230	
111+14,322 PC	8143099,7937825	681765,7129295	
112+0,00	8143105,4636307	681765,5277123	
112+5,505 PT	8143110,8792190	681764,5644486	
113+0,00	8143124,9355393	681761,0260438	
114+0,00	8143144,3304663	681756,1437487	
115+0,00	8143163,7253933	681751,2614537	
116+0,00	8143183,1203204	681746,3791586	
117+0,00	8143202,5152474	681741,4968635	
118+0,00	8143221,9101745	681736,6145685	
119+0,00	8143241,3051015	681731,7322734	
120+0,00	8143260,7000285	681726,8499783	
120+5,066 PI	8143265,6131289	681725,6132011	
121+0,00	8143280,2549630	681722,6755490	

Estaca	Norte	Este	Observação
122+0,00	8143299,8641814	681718,7412700	
122+16,062 PI	8143315,6127957	681715,5815601	
123+0,00	8143319,4304110	681714,6171767	
124+0,00	8143338,8212754	681709,7187711	
125+0,00	8143358,2121398	681704,8203656	
126+0,00	8143377,6030043	681699,9219600	
127+0,00	8143396,9938687	681695,0235545	
128+0,00	8143416,3847331	681690,1251489	
129+0,00	8143435,7755975	681685,2267434	
130+0,00	8143455,1664620	681680,3283379	
131+0,00	8143474,5573264	681675,4299323	
132+0,00	8143493,9481908	681670,5315268	
132+16,853	8143510,2879321	681666,4038779	

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Estaca	Norte	Este	Observação
0+0,00	8141915,1463026	680035,0277235	
1+0,00	8141924,3405910	680052,7890596	
2+0,00	8141933,5348795	680070,5503957	
3+0,00	8141942,7291680	680088,3117318	
3+15,246 PI	8141949,7379814	680101,8512125	
4+0,00	8141951,8061748	680106,1317429	
5+0,00	8141960,5070594	680124,1399245	
6+0,00	8141969,2079441	680142,1481061	
7+0,00	8141977,9088288	680160,1562878	
8+0,00	8141986,6097135	680178,1644694	
9+0,00	8141995,3105981	680196,1726511	
9+7,518 PI	8141998,5810933	680202,9415801	
10+0,00	8142004,4886952	680213,9374961	
11+0,00	8142013,9541971	680231,5557898	
12+0,00	8142023,4196990	680249,1740835	
13+0,00	8142032,8852010	680266,7923772	
14+0,00	8142042,3507029	680284,4106709	
15+0,00	8142051,8162049	680302,0289646	
16+0,00	8142061,2817068	680319,6472583	
17+0,00	8142070,7472087	680337,2655520	
18+0,00	8142080,2127107	680354,8838458	
19+0,00	8142089,6782126	680372,5021395	
20+0,00	8142099,1437146	680390,1204332	
21+0,00	8142108,6092165	680407,7387269	
22+0,00	8142118,0747185	680425,3570206	
23+0,00	8142127,5402204	680442,9753143	
24+0,00	8142137,0057223	680460,5936080	
25+0,00	8142146,4712243	680478,2119017	
26+0,00	8142155,9367262	680495,8301954	
27+0,00	8142165,4022282	680513,4484891	
28+0,00	8142174,8677301	680531,0667828	

Estaca	Norte	Este	Observação
29+0,00	8142184,3332320	680548,6850765	
30+0,00	8142193,7987340	680566,3033702	
31+0,00	8142203,2642359	680583,9216639	
32+0,00	8142212,7297379	680601,5399576	
33+0,00	8142222,1952398	680619,1582513	
34+0,00	8142231,6607417	680636,7765450	
35+0,00	8142241,1262437	680654,3948387	
36+0,00	8142250,5917456	680672,0131324	
37+0,00	8142260,0572476	680689,6314261	
38+0,00	8142269,5227495	680707,2497198	
39+0,00	8142278,9882515	680724,8680135	
40+0,00	8142288,4537534	680742,4863072	
41+0,00	8142297,9192553	680760,1046009	
42+0,00	8142307,3847573	680777,7228946	
43+0,00	8142316,8502592	680795,3411883	
44+0,00	8142326,3157612	680812,9594820	
45+0,00	8142335,7812631	680830,5777757	
46+0,00	8142345,2467650	680848,1960694	
47+0,00	8142354,7122670	680865,8143631	
48+0,00	8142364,1777689	680883,4326568	
48+18,415 PI	8142372,8929916	680899,6544435	
49+0,00	8142373,5756664	680901,0852146	
50+0,00	8142382,1882720	680919,1357832	
51+0,00	8142390,8008776	680937,1863517	
52+0,00	8142399,4134831	680955,2369203	
53+0,00	8142408,0260887	680973,2874888	
54+0,00	8142416,6386943	680991,3380574	
55+0,00	8142425,2512999	681009,3886259	
56+0,00	8142433,8639055	681027,4391945	
57+0,00	8142442,4765111	681045,4897630	
58+0,00	8142451,0891167	681063,5403316	
59+0,00	8142459,7017222	681081,5909001	
59+14,834 PI	8142466,0898427	681094,9793230	
60+0,00	8142467,9617758	681099,7938638	
61+0,00	8142475,2093950	681118,4344651	
62+0,00	8142482,4570142	681137,0750663	
63+0,00	8142489,7046334	681155,7156676	
64+0,00	8142496,9522526	681174,3562689	
65+0,00	8142504,1998719	681192,9968702	
66+0,00	8142511,4474911	681211,6374714	
67+0,00	8142518,6951103	681230,2780727	
68+0,00	8142525,9427295	681248,9186740	
69+0,00	8142533,1903487	681267,5592752	
70+0,00	8142540,4379679	681286,1998765	
71+0,00	8142547,6855872	681304,8404778	
71+2,856 PC	8142548,7205629	681307,5023961	
72+0,00	8142553,7726262	681323,8698126	
72+10,896 PCR	8142555,7499870	681334,5807245	

Estaca	Norte	Este	Observação
73+0,00	8142557,5047625	681343,5093628	
74+0,00	8142564,8290094	681362,0640498	
75+0,00	8142576,5160662	681378,2298689	
75+5,712 PCR	8142580,5596590	681382,2632270	
76+0,00	8142590,4261453	681392,5852667	
77+0,00	8142602,0329541	681408,8443232	
77+3,820 PT	8142603,9332228	681412,1576499	
78+0,00	8142611,7586344	681426,3197070	
79+0,00	8142621,4314207	681443,8250549	
80+0,00	8142631,1042071	681461,3304028	
81+0,00	8142640,7769934	681478,8357507	
82+0,00	8142650,4497797	681496,3410986	
83+0,00	8142660,1225661	681513,8464464	
84+0,00	8142669,7953524	681531,3517943	
85+0,00	8142679,4681387	681548,8571422	
86+0,00	8142689,1409251	681566,3624901	
87+0,00	8142698,8137114	681583,8678380	
88+0,00	8142708,4864977	681601,3731859	
89+0,00	8142718,1592840	681618,8785337	
90+0,00	8142727,8320704	681636,3838816	
91+0,00	8142737,5048567	681653,8892295	
92+0,00	8142747,1776430	681671,3945774	
93+0,00	8142756,8504294	681688,8999253	
94+0,00	8142766,5232157	681706,4052732	
95+0,00	8142776,1960020	681723,9106211	
96+0,00	8142785,8687884	681741,4159689	
97+0,00	8142795,5415747	681758,9213168	
98+0,00	8142805,2143610	681776,4266647	
98+6,505 PC	8142808,3605886	681782,1205574	
99+0,00	8142818,4437994	681790,6353959	
99+18,960 PCR	8142836,3049461	681787,4610778	
100+0,00	8142837,1124485	681786,8056515	
101+0,00	8142854,1152669	681776,3737213	
102+0,00	8142873,1704098	681770,4726592	
102+17,236 PT	8142890,3341964	681769,3107989	
103+0,00	8142893,0955849	681769,4216951	
104+0,00	8142913,0794765	681770,2242392	
105+0,00	8142933,0633681	681771,0267834	
106+0,00	8142953,0472597	681771,8293275	
107+0,00	8142973,0311513	681772,6318717	
108+0,00	8142993,0150429	681773,4344158	
109+0,00	8143012,9989344	681774,2369600	
110+0,00	8143032,9828260	681775,0395041	
111+0,00	8143052,9667176	681775,8420483	
112+0,00	8143072,9506092	681776,6445924	
113+0,00	8143092,9345008	681777,4471366	
113+6,383 PC	8143099,3122560	681777,7032644	
114+0,00	8143112,8298187	681776,4375440	

Estaca	Norte	Este	Observação
114+1,007 PT	8143113,8085960	681776,2014048	
115+0,00	8143132,2271085	681771,5649031	
116+0,00	8143151,6220355	681766,6826080	
117+0,00	8143171,0169626	681761,8003130	
118+0,00	8143190,4118896	681756,9180179	
119+0,00	8143209,8068167	681752,0357228	
120+0,00	8143229,2017437	681747,1534278	
121+0,00	8143248,5966707	681742,2711327	
122+0,00	8143267,9915978	681737,3888376	
122+0,276 PI	8143268,2596636	681737,3213573	
123+0,00	8143287,5978544	681733,4414557	
124+0,00	8143307,2070729	681729,5071767	
124+11,277 PI	8143318,2642204	681727,2887352	
125+0,00	8143326,7210617	681725,1524180	
126+0,00	8143346,1119261	681720,2540124	
127+0,00	8143365,5027905	681715,3556069	
128+0,00	8143384,8936550	681710,4572013	
129+0,00	8143404,2845194	681705,5587958	
130+0,00	8143423,6753838	681700,6603903	
131+0,00	8143443,0662482	681695,7619847	
132+0,00	8143462,4571127	681690,8635792	
133+0,00	8143481,8479771	681685,9651736	
134+0,00	8143501,2388415	681681,0667681	
134+12,365	8143513,2269754	681678,0383966	

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Estaca	Norte	Este	Observação
0+0,00	8142355,5506462	678077,6253360	
1+0,00	8142354,1723878	678097,5777896	
2+0,00	8142352,7941293	678117,5302432	
3+0,00	8142351,4158708	678137,4826967	
4+0,00	8142350,0376123	678157,4351503	
5+0,00	8142348,6593539	678177,3876039	
6+0,00	8142347,2810954	678197,3400575	
7+0,00	8142345,9028369	678217,2925110	
8+0,00	8142344,5245785	678237,2449646	
9+0,00	8142343,1463200	678257,1974182	
10+0,00	8142341,7680615	678277,1498718	
11+0,00	8142340,3898031	678297,1023253	
12+0,00	8142339,0115446	678317,0547789	
13+0,00	8142337,6332861	678337,0072325	
14+0,00	8142336,2550277	678356,9596860	
15+0,00	8142334,8767692	678376,9121396	
16+0,00	8142333,4985107	678396,8645932	
17+0,00	8142332,1202523	678416,8170468	
18+0,00	8142330,7419938	678436,7695003	
19+0,00	8142329,3637353	678456,7219539	

Estaca	Norte	Este	Observação
20+0,00	8142327,9854769	678476,6744075	
21+0,00	8142326,6072184	678496,6268611	
22+0,00	8142325,2289599	678516,5793146	
23+0,00	8142323,8507014	678536,5317682	
24+0,00	8142322,4724430	678556,4842218	
25+0,00	8142321,0941845	678576,4366754	
26+0,00	8142319,7159260	678596,3891289	
27+0,00	8142318,3376676	678616,3415825	
28+0,00	8142316,9594091	678636,2940361	
29+0,00	8142315,5811506	678656,2464896	
30+0,00	8142314,2028922	678676,1989432	
31+0,00	8142312,8246337	678696,1513968	
32+0,00	8142311,4463752	678716,1038504	
33+0,00	8142310,0681168	678736,0563039	
34+0,00	8142308,6898583	678756,0087575	
35+0,00	8142307,3115998	678775,9612111	
36+0,00	8142305,9333414	678795,9136647	
37+0,00	8142304,5550829	678815,8661182	
38+0,00	8142303,1768244	678835,8185718	
38+19,356 PI	8142301,8429159	678855,1289907	
39+0,00	8142301,7933350	678855,7706426	
40+0,00	8142300,2525147	678875,7112011	
41+0,00	8142298,7116943	678895,6517596	
42+0,00	8142297,1708740	678915,5923181	
43+0,00	8142295,6300537	678935,5328766	
44+0,00	8142294,0892334	678955,4734350	
45+0,00	8142292,5484130	678975,4139935	
46+0,00	8142291,0075927	678995,3545520	
47+0,00	8142289,4667724	679015,2951105	
48+0,00	8142287,9259521	679035,2356690	
49+0,00	8142286,3851317	679055,1762275	
50+0,00	8142284,8443114	679075,1167860	
51+0,00	8142283,3034911	679095,0573444	
52+0,00	8142281,7626707	679114,9979029	
53+0,00	8142280,2218504	679134,9384614	
54+0,00	8142278,6810301	679154,8790199	
55+0,00	8142277,1402098	679174,8195784	
56+0,00	8142275,5993894	679194,7601369	
56+2,427 PC	8142275,4124373	679197,1795816	
57+0,00	8142275,3440475	679214,7370924	
57+5,465 PT	8142275,8466084	679220,1784645	
58+0,00	8142277,5125566	679234,6176733	
58+7,056 PC	8142278,3213464	679241,6276666	
59+0,00	8142279,1092213	679254,5408832	
59+19,966 PT	8142277,5913404	679274,4259275	
60+0,00	8142277,5859309	679274,4595813	
61+0,00	8142274,4118809	679294,2061102	
62+0,00	8142271,2378309	679313,9526392	

Estaca	Norte	Este	Observação
63+0,00	8142268,0637809	679333,6991682	
64+0,00	8142264,8897309	679353,4456972	
64+16,572 PC	8142262,2597117	679369,8076796	
65+0,00	8142261,7640941	679373,1995359	
65+9,778 PT	8142260,8848649	679382,9347393	
66+0,00	8142260,3807916	679393,1447729	
67+0,00	8142259,3945848	679413,1204431	
68+0,00	8142258,4083781	679433,0961132	
69+0,00	8142257,4221714	679453,0717833	
70+0,00	8142256,4359647	679473,0474534	
71+0,00	8142255,4497580	679493,0231235	
72+0,00	8142254,4635512	679512,9987936	
73+0,00	8142253,4773445	679532,9744637	
74+0,00	8142252,4911378	679552,9501338	
75+0,00	8142251,5049311	679572,9258039	
76+0,00	8142250,5187244	679592,9014740	
77+0,00	8142249,5325177	679612,8771441	
78+0,00	8142248,5463109	679632,8528143	
79+0,00	8142247,5601042	679652,8284844	
80+0,00	8142246,5738975	679672,8041545	
80+17,071 PC	8142245,7321007	679689,8547936	
81+0,00	8142245,7315361	679692,7822088	
81+17,225 PT	8142251,3631592	679708,8071840	
82+0,00	8142252,9914776	679711,0548436	
83+0,00	8142264,7249960	679727,2512799	
84+0,00	8142276,4585143	679743,4477161	
85+0,00	8142288,1920327	679759,6441524	
86+0,00	8142299,9255510	679775,8405886	
87+0,00	8142311,6590694	679792,0370249	
88+0,00	8142323,3925878	679808,2334611	
88+0,189	8142323,5032147	679808,3861657	

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Estaca	Norte	Este	Observação
0+0,00	8142364,1891738	678091,8753329	
1+0,00	8142362,8109154	678111,8277865	
2+0,00	8142361,4326569	678131,7802401	
3+0,00	8142360,0543984	678151,7326936	
4+0,00	8142358,6761400	678171,6851472	
5+0,00	8142357,2978815	678191,6376008	
6+0,00	8142355,9196230	678211,5900544	
7+0,00	8142354,5413646	678231,5425079	
8+0,00	8142353,1631061	678251,4949615	
9+0,00	8142351,7848476	678271,4474151	
10+0,00	8142350,4065891	678291,3998687	
11+0,00	8142349,0283307	678311,3523222	
12+0,00	8142347,6500722	678331,3047758	

Estaca	Norte	Este	Observação
13+0,00	8142346,2718137	678351,2572294	
14+0,00	8142344,8935553	678371,2096829	
15+0,00	8142343,5152968	678391,1621365	
16+0,00	8142342,1370383	678411,1145901	
17+0,00	8142340,7587799	678431,0670437	
18+0,00	8142339,3805214	678451,0194972	
19+0,00	8142338,0022629	678470,9719508	
20+0,00	8142336,6240045	678490,9244044	
21+0,00	8142335,2457460	678510,8768580	
22+0,00	8142333,8674875	678530,8293115	
23+0,00	8142332,4892291	678550,7817651	
24+0,00	8142331,1109706	678570,7342187	
25+0,00	8142329,7327121	678590,6866723	
26+0,00	8142328,3544537	678610,6391258	
27+0,00	8142326,9761952	678630,5915794	
28+0,00	8142325,5979367	678650,5440330	
29+0,00	8142324,2196783	678670,4964865	
30+0,00	8142322,8414198	678690,4489401	
31+0,00	8142321,4631613	678710,4013937	
32+0,00	8142320,0849028	678730,3538473	
33+0,00	8142318,7066444	678750,3063008	
34+0,00	8142317,3283859	678770,2587544	
35+0,00	8142315,9501274	678790,2112080	
36+0,00	8142314,5718690	678810,1636616	
37+0,00	8142313,1936105	678830,1161151	
38+0,00	8142311,8153520	678850,0685687	
38+5,775 PI	8142311,4173978	678855,8295812	
39+0,00	8142310,3214693	678870,0125617	
40+0,00	8142308,7806490	678889,9531202	
41+0,00	8142307,2398287	678909,8936787	
42+0,00	8142305,6990084	678929,8342372	
43+0,00	8142304,1581881	678949,7747957	
44+0,00	8142302,6173678	678969,7153542	
45+0,00	8142301,0765474	678989,6559127	
46+0,00	8142299,5357271	679009,5964711	
47+0,00	8142297,9949068	679029,5370296	
48+0,00	8142296,4540865	679049,4775881	
49+0,00	8142294,9132662	679069,4181466	
50+0,00	8142293,3724458	679089,3587051	
51+0,00	8142291,8316255	679109,2992636	
52+0,00	8142290,2908052	679129,2398221	
53+0,00	8142288,7499849	679149,1803806	
53+2,120 PC	8142288,5866658	679151,2939779	
54+0,00	8142288,5399168	679169,1574834	
55+0,00	8142291,6282245	679188,8941824	
55+12,067 PCR	8142295,0637176	679200,4561736	
56+0,00	8142297,3277090	679208,0561907	
57+0,00	8142299,6154695	679227,8725263	

Estaca	Norte	Este	Observação
58+0,00	8142296,9294693	679247,6388209	
58+11,001 PCR	8142293,3797720	679258,0422748	
59+0,00	8142290,2097558	679266,4621564	
59+19,585 PT	8142285,5409790	679285,4598530	
60+0,00	8142285,4750703	679285,8698870	
61+0,00	8142282,3010203	679305,6164160	
62+0,00	8142279,1269703	679325,3629450	
63+0,00	8142275,9529203	679345,1094740	
64+0,00	8142272,7788703	679364,8560029	
64+6,558 PC	8142271,7380457	679371,3312236	
64+18,707 PT	8142270,4731866	679383,4081185	
65+0,00	8142270,4094490	679384,6991276	
66+0,00	8142269,4232423	679404,6747977	
67+0,00	8142268,4370355	679424,6504678	
68+0,00	8142267,4508288	679444,6261380	
69+0,00	8142266,4646221	679464,6018081	
70+0,00	8142265,4784154	679484,5774782	
71+0,00	8142264,4922087	679504,5531483	
72+0,00	8142263,5060019	679524,5288184	
73+0,00	8142262,5197952	679544,5044885	
74+0,00	8142261,5335885	679564,4801586	
75+0,00	8142260,5473818	679584,4558287	
76+0,00	8142259,5611751	679604,4314988	
77+0,00	8142258,5749684	679624,4071689	
78+0,00	8142257,5887616	679644,3828391	
79+0,00	8142256,6025549	679664,3585092	
80+0,00	8142255,6163482	679684,3341793	
80+6,001 PC	8142255,3204224	679690,3281728	
80+19,662 PT	8142259,1374486	679703,1750952	
81+0,00	8142259,3356766	679703,4487205	
82+0,00	8142271,0691950	679719,6451568	
83+0,00	8142282,8027134	679735,8415930	
84+0,00	8142294,5362317	679752,0380292	
85+0,00	8142306,2697501	679768,2344655	
86+0,00	8142318,0032684	679784,4309017	
87+0,00	8142329,7367868	679800,6273380	
87+2,626	8142331,2775041	679802,7540769	

AV. BRASIL - LD

Estaca	Norte	Este	Observação
0+0,00	8142295,5394367	679769,7861879	
1+0,00	8142278,7211289	679780,6095202	
2+0,00	8142261,9028211	679791,4328526	
3+0,00	8142245,0845133	679802,2561850	
4+0,00	8142228,2662055	679813,0795173	
5+0,00	8142211,4478978	679823,9028497	
6+0,00	8142194,6295900	679834,7261820	

Estaca	Norte	Este	Observação
7+0,00	8142177,8112822	679845,5495144	
8+0,00	8142160,9929744	679856,3728468	
9+0,00	8142144,1746666	679867,1961791	
10+0,00	8142127,3563588	679878,0195115	
11+0,00	8142110,5380511	679888,8428438	
11+9,932 PI	8142102,1861245	679894,2176817	
12+0,00	8142093,2471535	679898,8502296	
13+0,00	8142075,4900549	679908,0526993	
14+0,00	8142057,7329563	679917,2551691	
15+0,00	8142039,9758577	679926,4576388	
16+0,00	8142022,2187591	679935,6601086	
17+0,00	8142004,4616605	679944,8625783	
18+0,00	8141986,7045619	679954,0650480	
19+0,00	8141968,9474633	679963,2675178	
20+0,00	8141951,1903647	679972,4699875	
20+18,916	8141934,3957469	679981,1736595	

AV. BRASIL - LE

Estaca	Norte	Este	Observação
0+0,00	8142302,5902575	679779,5188331	
1+0,00	8142285,7719498	679790,3421654	
2+0,00	8142268,9536420	679801,1654978	
3+0,00	8142252,1353342	679811,9888301	
4+0,00	8142235,3170264	679822,8121625	
5+0,00	8142218,4987186	679833,6354949	
6+0,00	8142201,6804109	679844,4588272	
7+0,00	8142184,8621031	679855,2821596	
8+0,00	8142168,0437953	679866,1054919	
9+0,00	8142151,2254875	679876,9288243	
10+0,00	8142134,4071797	679887,7521567	
11+0,00	8142117,5888719	679898,5754890	
11+11,157 PI	8142108,2070680	679904,6130989	
12+0,00	8142100,3554617	679908,6821291	
13+0,00	8142082,5983631	679917,8845988	
14+0,00	8142064,8412645	679927,0870686	
15+0,00	8142047,0841659	679936,2895383	
16+0,00	8142029,3270673	679945,4920081	
17+0,00	8142011,5699687	679954,6944778	
18+0,00	8141993,8128701	679963,8969475	
19+0,00	8141976,0557715	679973,0994173	
20+0,00	8141958,2986729	679982,3018870	
21+0,00	8141940,5415743	679991,5043568	
21+2,797	8141938,0585056	679992,7911866	

ROTATÓRIA

Estaca	Norte	Este	Observação
0+0,00	8141894,5868544	680038,3480536	

Estaca	Norte	Este	Observação
0+0,005 PI	8141894,5818818	680038,3475305	
1+0,00	8141914,1643355	680035,4563615	
2+0,00	8141929,9238987	680023,4865737	
3+0,00	8141937,9627380	680005,4029702	
4+0,00	8141936,2900602	679985,6838982	
5+0,00	8141925,3200988	679969,2127234	
6+0,00	8141907,7695300	679960,0684802	
7+0,00	8141887,9846965	679960,5157113	
8+0,00	8141870,8652497	679970,4436615	
9+0,00	8141860,6507665	679987,3937053	
10+0,00	8141859,8708313	680007,1682180	
11+0,00	8141868,7185925	680024,8701042	
12+0,00	8141885,0029301	680036,1155477	
12+9,856	8141894,5769094	680038,3470061	

8. Curvas Horizontais – Eixo 02

CURVAS HORIZONTAIS

AV. BEIRA MAR - LD

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	0+0	8.142.355.551	678.077.625
FIM:	38+19.356	8.142.301.843	678.855.129
ESTACAS INTERMEDIARIAS:			
	1+0	8.142.354.173	678.097.577
	2+0	8.142.352.794	678.117.530
	3+0	8.142.351.416	678.137.482
	4+0	8.142.350.038	678.157.435
	5+0	8.142.348.660	678.177.387
	6+0	8.142.347.281	678.197.340
	7+0	8.142.345.903	678.217.292
	8+0	8.142.344.525	678.237.245
	9+0	8.142.343.147	678.257.197
	10+0	8.142.341.768	678.277.150
	11+0	8.142.340.390	678.297.102
	12+0	8.142.339.012	678.317.054
	13+0	8.142.337.634	678.337.007
	14+0	8.142.336.255	678.356.959
	15+0	8.142.334.877	678.376.912
	16+0	8.142.333.499	678.396.864
	17+0	8.142.332.121	678.416.817
	18+0	8.142.330.742	678.436.769
	19+0	8.142.329.364	678.456.722
	20+0	8.142.327.986	678.476.674
	21+0	8.142.326.608	678.496.627
	22+0	8.142.325.229	678.516.579
	23+0	8.142.323.851	678.536.531
	24+0	8.142.322.473	678.556.484
	25+0	8.142.321.095	678.576.436
	26+0	8.142.319.716	678.596.389
	27+0	8.142.318.338	678.616.341
	28+0	8.142.316.960	678.636.294
	29+0	8.142.315.582	678.656.246
	30+0	8.142.314.203	678.676.199
	31+0	8.142.312.825	678.696.151
	32+0	8.142.311.447	678.716.104
	33+0	8.142.310.068	678.736.056
	34+0	8.142.308.690	678.756.008
	35+0	8.142.307.312	678.775.961
	36+0	8.142.305.934	678.795.913
	37+0	8.142.304.555	678.815.866
	38+0	8.142.303.177	678.835.818

CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	779.356	ÂNGULO:	93° 57' 05.5855"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	38+19.356	8.142.301.843	678.855.129
FIM:	56+2.427	8.142.275.412	679.197.180
ESTACAS INTERMEDIARIAS:			
	39+0	8.142.301.793	678.855.771
	40+0	8.142.300.253	678.875.712
	41+0	8.142.298.712	678.895.652
	42+0	8.142.297.171	678.915.593
	43+0	8.142.295.630	678.935.533
	44+0	8.142.294.089	678.955.474
	45+0	8.142.292.548	678.975.414
	46+0	8.142.291.008	678.995.355
	47+0	8.142.289.467	679.015.296
	48+0	8.142.287.926	679.035.236
	49+0	8.142.286.385	679.055.177
	50+0	8.142.284.844	679.075.117
	51+0	8.142.283.304	679.095.058
	52+0	8.142.281.763	679.114.998
	53+0	8.142.280.222	679.134.939
	54+0	8.142.278.681	679.154.879
	55+0	8.142.277.140	679.174.820
	56+0	8.142.275.599	679.194.761
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	343.070	ÂNGULO:	94° 25' 06.6120"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	56+2.427	8.142.275.412	679.197.180
PI:		8.142.274.522	679.208.700
CC:		8.142.395.056	679.206.425
PT:	57+5.465	8.142.275.847	679.220.178
ESTACAS INTERMEDIARIAS:			
	57+0	8.142.275.344	679.214.737
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	11° 00' 001"	TIPO:	ESQUERDO
RAIO:	120.000		
DESENVOLVIMENTO:	23.038	TANGENTE:	11.555
FLECHA:	0.552	AFASTAMENTO:	0.555
COMPRIM. CORDA:	23.003	AZIMUTE CORDA:	88° 55' 06.6120"
δ20:	04° 46' 28.7339"		

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	57+5.465	8.142.275.847	679.220.178
FIM:	58+7.056	8.142.278.321	679.241.628
ESTACAS INTERMEDIARIAS:			
	58+0	8.142.277.513	679.234.617
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	21.591	ÂNGULO:	83° 25' 06.6119"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	58+7.056	8.142.278.321	679.241.628
PI:		8.142.280.219	679.258.077
CC:		8.142.159.112	679.255.382
PT:	59+19.966	8.142.277.591	679.274.426
ESTACAS INTERMEDIARIAS:			
	59+0	8.142.279.109	679.254.541
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	15° 42' 47.1218"	TIPO:	DIREITO
RAIO:	120.000		
DESENVOLVIMENTO:	32.909	TANGENTE:	16.559
FLECHA:	1.126	AFASTAMENTO:	1.137
COMPRIM. CORDA:	32.806	AZIMUTE CORDA:	91° 16' 30.1728"
δ20:	04° 46' 28.7339"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	59+19.966	8.142.277.591	679.274.426
FIM:	64+16.572	8.142.262.260	679.369.808
ESTACAS INTERMEDIARIAS:			
	60+0	8.142.277.586	679.274.460
	61+0	8.142.274.412	679.294.206
	62+0	8.142.271.238	679.313.953
	63+0	8.142.268.063	679.333.699
	64+0	8.142.264.889	679.353.446
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	96.606	ÂNGULO:	99° 07' 53.7337"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	64+16.572	8.142.262.260	679.369.808
PI:		8.142.261.211	679.376.333
CC:		8.142.380.739	679.388.852
PT:	65+9.778	8.142.260.885	679.382.935

ESTACAS INTERMEDIARIAS:			
	65+0	8.142.261.764	679.373.200
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	06° 18' 18.6205"	TIPO:	ESQUERDO
RAIO:	120.000		
DESENVOLVIMENTO:	13.206	TANGENTE:	6.609
FLECHA:	0.182	AFASTAMENTO:	0.182
COMPRIM. CORDA:	13.199	AZIMUTE CORDA:	95° 58' 44.4235"
δ20:	04° 46' 28.7338"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	65+9.778	8.142.260.885	679.382.935
FIM:	80+17.071	8.142.245.732	679.689.855
ESTACAS INTERMEDIARIAS:			
	66+0	8.142.260.381	679.393.145
	67+0	8.142.259.395	679.413.120
	68+0	8.142.258.409	679.433.096
	69+0	8.142.257.422	679.453.072
	70+0	8.142.256.436	679.473.047
	71+0	8.142.255.450	679.493.023
	72+0	8.142.254.464	679.512.999
	73+0	8.142.253.478	679.532.974
	74+0	8.142.252.491	679.552.950
	75+0	8.142.251.505	679.572.926
	76+0	8.142.250.519	679.592.901
	77+0	8.142.249.533	679.612.877
	78+0	8.142.248.546	679.632.853
	79+0	8.142.247.560	679.652.828
	80+0	8.142.246.574	679.672.804
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	307.294	ÂNGULO:	92° 49' 35.1132"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	80+17.071	8.142.245.732	679.689.855
PI:		8.142.245.215	679.700.321
CC:		8.142.275.496	679.691.324
PT:	81+17.225	8.142.251.363	679.708.807

ESTACAS INTERMEDIARIAS:			
	81+0	8.142.245.732	679.692.782
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	38° 44' 52.4209"	TIPO:	ESQUERDO
RAIO:	29.800		
DESENVOLVIMENTO:	20.153	TANGENTE:	10.479
FLECHA:	1.687	AFASTAMENTO:	1.789
COMPRIM. CORDA:	19.771	AZIMUTE CORDA:	73° 27' 08.9027"
δ20:	19° 13' 36.3779"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	81+17.225	8.142.251.363	679.708.807
FIM:	88+0.189	8.142.323.503	679.808.386
ESTACAS INTERMEDIARIAS:			
	82+0	8.142.252.991	679.711.054
	83+0	8.142.264.725	679.727.251
	84+0	8.142.276.458	679.743.447
	85+0	8.142.288.192	679.759.644
	86+0	8.142.299.925	679.775.840
	87+0	8.142.311.659	679.792.036
	88+0	8.142.323.392	679.808.233
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	122.964	ÂNGULO:	54° 04' 42.6923"

AV. BEIRA MAR - LE

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	0+0	8.142.364.189	678.091.875
FIM:	38+5.775	8.142.311.417	678.855.830
ESTACAS INTERMEDIARIAS:			
	1+0	8.142.362.811	678.111.827
	2+0	8.142.361.432	678.131.780
	3+0	8.142.360.054	678.151.732
	4+0	8.142.358.676	678.171.685
	5+0	8.142.357.298	678.191.637
	6+0	8.142.355.919	678.211.590
	7+0	8.142.354.541	678.231.542
	8+0	8.142.353.163	678.251.495
	9+0	8.142.351.785	678.271.447
	10+0	8.142.350.406	678.291.400
	11+0	8.142.349.028	678.311.352
	12+0	8.142.347.650	678.331.304
	13+0	8.142.346.272	678.351.257
	14+0	8.142.344.893	678.371.209
	15+0	8.142.343.515	678.391.162

	16+0	8.142.342.137	678.411.114
	17+0	8.142.340.759	678.431.067
	18+0	8.142.339.380	678.451.019
	19+0	8.142.338.002	678.470.972
	20+0	8.142.336.624	678.490.924
	21+0	8.142.335.246	678.510.877
	22+0	8.142.333.867	678.530.829
	23+0	8.142.332.489	678.550.781
	24+0	8.142.331.111	678.570.734
	25+0	8.142.329.733	678.590.686
	26+0	8.142.328.354	678.610.639
	27+0	8.142.326.976	678.630.591
	28+0	8.142.325.598	678.650.544
	29+0	8.142.324.220	678.670.496
	30+0	8.142.322.841	678.690.449
	31+0	8.142.321.463	678.710.401
	32+0	8.142.320.085	678.730.354
	33+0	8.142.318.706	678.750.306
	34+0	8.142.317.328	678.770.258
	35+0	8.142.315.950	678.790.211
	36+0	8.142.314.572	678.810.163
	37+0	8.142.313.193	678.830.116
	38+0	8.142.311.815	678.850.068
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	765.775	ÂNGULO:	93° 57' 05.5855"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	38+5.775	8.142.311.417	678.855.830
FIM:	53+2.120	8.142.288.587	679.151.294
ESTACAS INTERMEDIARIAS:			
	39+0	8.142.310.321	678.870.013
	40+0	8.142.308.780	678.889.953
	41+0	8.142.307.239	678.909.894
	42+0	8.142.305.699	678.929.834
	43+0	8.142.304.158	678.949.775
	44+0	8.142.302.617	678.969.716
	45+0	8.142.301.076	678.989.656
	46+0	8.142.299.535	679.009.597
	47+0	8.142.297.995	679.029.537
	48+0	8.142.296.454	679.049.478
	49+0	8.142.294.913	679.069.418
	50+0	8.142.293.372	679.089.359
	51+0	8.142.291.831	679.109.299
	52+0	8.142.290.290	679.129.240
	53+0	8.142.288.750	679.149.181

CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	296.345	ÂNGULO:	94° 25' 06.6119"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	53+2.120	8.142.288.587	679.151.294
PI:		8.142.286.634	679.176.559
CC:		8.142.408.230	679.160.539
PCC:	55+12.067	8.142.295.064	679.200.456
ESTACAS INTERMEDIARIAS:			
	54+0	8.142.288.540	679.169.157
	55+0	8.142.291.628	679.188.894
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	23° 50' 52.2040"	TIPO:	ESQUERDO
RAIO:	120.000		
DESENVOLVIMENTO:	49.947	TANGENTE:	25.340
FLECHA:	2.589	AFASTAMENTO:	2.646
COMPRIM. CORDA:	49.587	AZIMUTE CORDA:	82° 29' 40.5099"
δ20:	04° 46' 28.7339"		
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	55+12.067	8.142.295.064	679.200.456
PI:		8.142.305.335	679.229.574
CC:		8.142.219.620	679.227.068
PCC:	58+11.001	8.142.293.380	679.258.042
ESTACAS INTERMEDIARIAS:			
	56+0	8.142.297.328	679.208.056
	57+0	8.142.299.615	679.227.873
	58+0	8.142.296.929	679.247.639
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	42° 12' 31.0298"	TIPO:	DIREITO
RAIO:	80.000		
DESENVOLVIMENTO:	58.934	TANGENTE:	30.876
FLECHA:	5.366	AFASTAMENTO:	5.752
COMPRIM. CORDA:	57.611	AZIMUTE CORDA:	91° 40' 29.9228"
δ20:	07° 09' 43.1008"		
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	58+11.001	8.142.293.380	679.258.042
PI:		8.142.287.820	679.271.282
CC:		8.142.404.020	679.304.504
PT:	59+19.585	8.142.285.541	679.285.460

ESTACAS INTERMEDIARIAS:			
	59+0	8.142.290.210	679.266.462
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	13° 38' 51.7039"	TIPO:	ESQUERDO
RAIO:	120.000		
DESENVOLVIMENTO:	28.584	TANGENTE:	14.360
FLECHA:	0.850	AFASTAMENTO:	0.856
COMPRIM. CORDA:	28.516	AZIMUTE CORDA:	105° 57' 19.5857"
δ20:	04° 46' 28.7339"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	59+19.585	8.142.285.541	679.285.460
FIM:	64+6.558	8.142.271.738	679.371.331
ESTACAS INTERMEDIARIAS:			
	60+0	8.142.285.475	679.285.870
	61+0	8.142.282.301	679.305.616
	62+0	8.142.279.127	679.325.363
	63+0	8.142.275.953	679.345.109
	64+0	8.142.272.779	679.364.856
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	86.974	ÂNGULO:	99° 07' 53.7338"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	64+6.558	8.142.271.738	679.371.331
PI:		8.142.270.773	679.377.335
CC:		8.142.380.739	679.388.852
PT:	64+18.707	8.142.270.473	679.383.408
ESTACAS INTERMEDIARIAS:			
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	06° 18' 18.6206"	TIPO:	ESQUERDO
RAIO:	110.400		
DESENVOLVIMENTO:	12.149	TANGENTE:	6.081
FLECHA:	0.167	AFASTAMENTO:	0.167
COMPRIM. CORDA:	12.143	AZIMUTE CORDA:	95° 58' 44.4235"
δ20:	05° 11' 23.4064"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	64+18.707	8.142.270.473	679.383.408
FIM:	80+6.001	8.142.255.320	679.690.328
ESTACAS INTERMEDIARIAS:			
	65+0	8.142.270.409	679.384.699
	66+0	8.142.269.423	679.404.675

	67+0	8.142.268.437	679.424.651
	68+0	8.142.267.451	679.444.626
	69+0	8.142.266.464	679.464.602
	70+0	8.142.265.478	679.484.578
	71+0	8.142.264.492	679.504.553
	72+0	8.142.263.506	679.524.529
	73+0	8.142.262.520	679.544.505
	74+0	8.142.261.533	679.564.480
	75+0	8.142.260.547	679.584.456
	76+0	8.142.259.561	679.604.432
	77+0	8.142.258.575	679.624.407
	78+0	8.142.257.589	679.644.383
	79+0	8.142.256.602	679.664.359
	80+0	8.142.255.616	679.684.334
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	307.294	ÂNGULO:	92° 49' 35.1132"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	80+6.001	8.142.255.320	679.690.328
PI:		8.142.254.970	679.697.423
CC:		8.142.275.496	679.691.324
PT:	80+19.662	8.142.259.137	679.703.175
ESTACAS INTERMEDIARIAS:			
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	38° 44' 52.4209"	TIPO:	ESQUERDO
RAIO:	20.200		
DESENVOLVIMENTO:	13.661	TANGENTE:	7.103
FLECHA:	1.144	AFASTAMENTO:	1.213
COMPRIM. CORDA:	13.402	AZIMUTE CORDA:	73° 27' 08.9027"
δ20:	28° 21' 51.2903"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	80+19.662	8.142.259.137	679.703.175
FIM:	87+2.626	8.142.331.278	679.802.754
ESTACAS INTERMEDIARIAS:			
	81+0	8.142.259.335	679.703.449
	82+0	8.142.271.069	679.719.645
	83+0	8.142.282.802	679.735.842
	84+0	8.142.294.536	679.752.038
	85+0	8.142.306.269	679.768.234
	86+0	8.142.318.003	679.784.431
	87+0	8.142.329.736	679.800.627

CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	122.964	ÂNGULO:	54° 04' 42.6923"

AV. BRASIL - LD

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	0+0	8.142.295.539	679.769.786
FIM:	11+9.932	8.142.102.186	679.894.218
ESTACAS INTERMEDIARIAS:			
	1+0	8.142.278.721	679.780.609
	2+0	8.142.261.902	679.791.433
	3+0	8.142.245.084	679.802.256
	4+0	8.142.228.266	679.813.079
	5+0	8.142.211.447	679.823.903
	6+0	8.142.194.629	679.834.726
	7+0	8.142.177.811	679.845.549
	8+0	8.142.160.993	679.856.373
	9+0	8.142.144.174	679.867.196
	10+0	8.142.127.356	679.878.019
	11+0	8.142.110.538	679.888.843

CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	229.932	ÂNGULO:	147° 14' 12.8726"

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	11+9.932	8.142.102.186	679.894.218
FIM:	20+18.916	8.141.934.396	679.981.174
ESTACAS INTERMEDIARIAS:			
	12+0	8.142.093.247	679.898.851
	13+0	8.142.075.490	679.908.053
	14+0	8.142.057.733	679.917.255
	15+0	8.142.039.976	679.926.458
	16+0	8.142.022.219	679.935.660
	17+0	8.142.004.462	679.944.863
	18+0	8.141.986.704	679.954.065
	19+0	8.141.968.947	679.963.268
	20+0	8.141.951.190	679.972.470

CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	188.984	ÂNGULO:	152° 36' 17.7258"

AV. BRASIL - LE

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	0+0	8.142.302.590	679.779.519
FIM:	11+11.157	8.142.108.207	679.904.613

ESTACAS INTERMEDIARIAS:			
	1+0	8.142.285.772	679.790.342
	2+0	8.142.268.953	679.801.166
	3+0	8.142.252.135	679.811.989
	4+0	8.142.235.317	679.822.812
	5+0	8.142.218.498	679.833.636
	6+0	8.142.201.680	679.844.459
	7+0	8.142.184.862	679.855.282
	8+0	8.142.168.044	679.866.106
	9+0	8.142.151.225	679.876.929
	10+0	8.142.134.407	679.887.752
	11+0	8.142.117.589	679.898.576
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	231.157	ÂNGULO:	147° 14' 12.8726"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	11+11.157	8.142.108.207	679.904.613
FIM:	21+2.797	8.141.938.059	679.992.791
ESTACAS INTERMEDIARIAS:			
	12+0	8.142.100.356	679.908.682
	13+0	8.142.082.599	679.917.884
	14+0	8.142.064.842	679.927.087
	15+0	8.142.047.084	679.936.289
	16+0	8.142.029.327	679.945.492
	17+0	8.142.011.570	679.954.694
	18+0	8.141.993.813	679.963.897
	19+0	8.141.976.056	679.973.099
	20+0	8.141.958.299	679.982.302
	21+0	8.141.940.542	679.991.504
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	191.640	ÂNGULO:	152° 36' 17.7258"

AV. DAS NAÇÕES - LD

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	0+0	8.141.915.146	680.035.028
FIM:	3+15.246	8.141.949.738	680.101.851
ESTACAS INTERMEDIARIAS:			
	1+0	8.141.924.340	680.052.789
	2+0	8.141.933.535	680.070.551
	3+0	8.141.942.729	680.088.312
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	75.246	ÂNGULO:	62° 37' 52.7472"

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	3+15.246	8.141.949.738	680.101.851
FIM:	9+7.518	8.141.998.581	680.202.942
ESTACAS INTERMEDIARIAS:			
	4+0	8.141.951.806	680.106.132
	5+0	8.141.960.507	680.124.140
	6+0	8.141.969.208	680.142.148
	7+0	8.141.977.909	680.160.156
	8+0	8.141.986.610	680.178.164
	9+0	8.141.995.311	680.196.172
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	112.272	ÂNGULO:	64° 12' 42.8091"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	9+7.518	8.141.998.581	680.202.942
FIM:	48+18.415	8.142.372.893	680.899.654
ESTACAS INTERMEDIARIAS:			
	10+0	8.142.004.488	680.213.938
	11+0	8.142.013.954	680.231.556
	12+0	8.142.023.419	680.249.174
	13+0	8.142.032.885	680.266.792
	14+0	8.142.042.350	680.284.411
	15+0	8.142.051.816	680.302.029
	16+0	8.142.061.281	680.319.647
	17+0	8.142.070.747	680.337.266
	18+0	8.142.080.212	680.354.884
	19+0	8.142.089.678	680.372.502
	20+0	8.142.099.143	680.390.121
	21+0	8.142.108.609	680.407.739
	22+0	8.142.118.074	680.425.357
	23+0	8.142.127.540	680.442.975
	24+0	8.142.137.005	680.460.594
	25+0	8.142.146.471	680.478.212
	26+0	8.142.155.936	680.495.830
	27+0	8.142.165.402	680.513.449
	28+0	8.142.174.867	680.531.067
	29+0	8.142.184.333	680.548.685
	30+0	8.142.193.798	680.566.303
	31+0	8.142.203.264	680.583.922
	32+0	8.142.212.729	680.601.540
	33+0	8.142.222.195	680.619.158
	34+0	8.142.231.660	680.636.777
	35+0	8.142.241.126	680.654.395
	36+0	8.142.250.591	680.672.013

	37+0	8.142.260.057	680.689.632
	38+0	8.142.269.522	680.707.250
	39+0	8.142.278.988	680.724.868
	40+0	8.142.288.453	680.742.486
	41+0	8.142.297.919	680.760.105
	42+0	8.142.307.384	680.777.723
	43+0	8.142.316.850	680.795.341
	44+0	8.142.326.315	680.812.960
	45+0	8.142.335.781	680.830.578
	46+0	8.142.345.246	680.848.196
	47+0	8.142.354.712	680.865.814
	48+0	8.142.364.177	680.883.433
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	790.897	ÂNGULO:	61° 45' 10.4362"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	48+18.415	8.142.372.893	680.899.654
FIM:	59+14.834	8.142.466.090	681.094.979
ESTACAS INTERMEDIARIAS:			
	49+0	8.142.373.576	680.901.085
	50+0	8.142.382.188	680.919.135
	51+0	8.142.390.801	680.937.186
	52+0	8.142.399.413	680.955.236
	53+0	8.142.408.026	680.973.287
	54+0	8.142.416.639	680.991.337
	55+0	8.142.425.251	681.009.388
	56+0	8.142.433.864	681.027.438
	57+0	8.142.442.476	681.045.489
	58+0	8.142.451.089	681.063.540
	59+0	8.142.459.702	681.081.590
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	216.420	ÂNGULO:	64° 29' 32.7628"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	59+14.834	8.142.466.090	681.094.979
FIM:	71+2.856	8.142.548.721	681.307.502
ESTACAS INTERMEDIARIAS:			
	60+0	8.142.467.962	681.099.794
	61+0	8.142.475.210	681.118.434
	62+0	8.142.482.457	681.137.075
	63+0	8.142.489.705	681.155.716
	64+0	8.142.496.953	681.174.356
	65+0	8.142.504.200	681.192.997
	66+0	8.142.511.448	681.211.637

	67+0	8.142.518.695	681.230.278
	68+0	8.142.525.943	681.248.919
	69+0	8.142.533.191	681.267.559
	70+0	8.142.540.438	681.286.200
	71+0	8.142.547.686	681.304.840
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	228.022	ÂNGULO:	68° 45' 12.6318"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	71+2.856	8.142.548.721	681.307.502
PI:		8.142.553.824	681.320.629
CC:		8.142.436.877	681.350.988
PCC:	72+10.896	8.142.555.750	681.334.581
ESTACAS INTERMEDIARIAS:			
	72+0	8.142.553.773	681.323.870
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	13° 23' 16.5282"	TIPO:	DIREITO
RAIO:	120.000		
DESENVOLVIMENTO:	28.040	TANGENTE:	14.084
FLECHA:	0.818	AFASTAMENTO:	0.824
COMPRIM. CORDA:	27.976	AZIMUTE CORDA:	75° 26' 50.8959"
δ20:	04° 46' 28.7338"		
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	72+10.896	8.142.555.750	681.334.581
PI:		8.142.559.651	681.362.846
CC:		8.142.634.999	681.323.642
PCC:	75+5.712	8.142.580.560	681.382.263
ESTACAS INTERMEDIARIAS:			
	73+0	8.142.557.505	681.343.509
	74+0	8.142.564.829	681.362.064
	75+0	8.142.576.516	681.378.230
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	39° 15' 34.8056"	TIPO:	ESQUERDO
RAIO:	80.000		
DESENVOLVIMENTO:	54.817	TANGENTE:	28.534
FLECHA:	4.649	AFASTAMENTO:	4.936
COMPRIM. CORDA:	53.751	AZIMUTE CORDA:	62° 30' 41.7572"
δ20:	07° 09' 43.1008"		

CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	75+5.712	8.142.580.560	681.382.263
PI:		8.142.594.640	681.395.339
CC:		8.142.498.901	681.470.194
PT:	77+3.820	8.142.603.933	681.412.158
ESTACAS INTERMEDIARIAS:			
	76+0	8.142.590.426	681.392.585
	77+0	8.142.602.033	681.408.844
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	18° 11' 41.5404"	TIPO:	DIREITO
RAIO:	120.000		
DESENVOLVIMENTO:	38.107	TANGENTE:	19.215
FLECHA:	1.509	AFASTAMENTO:	1.529
COMPRIM. CORDA:	37.947	AZIMUTE CORDA:	51° 58' 45.1247"
δ20:	04° 46' 28.7339"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	77+3.820	8.142.603.933	681.412.158
FIM:	98+6.505	8.142.808.361	681.782.121
ESTACAS INTERMEDIARIAS:			
	78+0	8.142.611.758	681.426.320
	79+0	8.142.621.431	681.443.825
	80+0	8.142.631.104	681.461.331
	81+0	8.142.640.777	681.478.836
	82+0	8.142.650.449	681.496.341
	83+0	8.142.660.122	681.513.847
	84+0	8.142.669.795	681.531.352
	85+0	8.142.679.468	681.548.857
	86+0	8.142.689.141	681.566.363
	87+0	8.142.698.813	681.583.868
	88+0	8.142.708.486	681.601.373
	89+0	8.142.718.159	681.618.879
	90+0	8.142.727.832	681.636.384
	91+0	8.142.737.505	681.653.889
	92+0	8.142.747.177	681.671.395
	93+0	8.142.756.850	681.688.900
	94+0	8.142.766.523	681.706.405
	95+0	8.142.776.196	681.723.911
	96+0	8.142.785.868	681.741.416
	97+0	8.142.795.541	681.758.921
	98+0	8.142.805.214	681.776.427

CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	422.686	ÂNGULO:	61° 04' 35.8948"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	98+6.505	8.142.808.361	681.782.121
PI:		8.142.819.121	681.801.595
CC:		8.142.824.553	681.773.173
PCC:	99+18.960	8.142.836.305	681.787.461
ESTACAS INTERMEDIARIAS:			
	99+0	8.142.818.444	681.790.635
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	100° 30' 51.5066"	TIPO:	ESQUERDO
RAIO:	18.500		
DESENVOLVIMENTO:	32.455	TANGENTE:	22.249
FLECHA:	6.672	AFASTAMENTO:	10.436
COMPRIM. CORDA:	28.450	AZIMUTE CORDA:	10° 49' 10.1416"
δ20:	30° 58' 14.4899"		
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	99+18.960	8.142.836.305	681.787.461
PI:		8.142.859.860	681.768.087
CC:		8.142.887.124	681.849.246
PT:	1+02+17.236	8.142.890.334	681.769.311
ESTACAS INTERMEDIARIAS:			
	1+00+0	8.142.837.112	681.786.806
	1+01+0	8.142.854.115	681.776.374
	1+02+0	8.142.873.170	681.770.473
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	41° 44' 14.6653"	TIPO:	DIREITO
RAIO:	80.000		
DESENVOLVIMENTO:	58.276	TANGENTE:	30.499
FLECHA:	5.248	AFASTAMENTO:	5.617
COMPRIM. CORDA:	56.996	AZIMUTE CORDA:	341° 25' 51.7209"
δ20:	07° 09' 43.1008"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	1+02+17.236	8.142.890.334	681.769.311
FIM:	1+13+6.383	8.143.099.312	681.777.703
ESTACAS INTERMEDIARIAS:			
	1+03+0	8.142.893.096	681.769.422
	1+04+0	8.142.913.080	681.770.224
	1+05+0	8.142.933.064	681.771.027

	1+06+0	8.142.953.047	681.771.830
	1+07+0	8.142.973.031	681.772.632
	1+08+0	8.142.993.015	681.773.435
	1+09+0	8.143.012.999	681.774.237
	1+10+0	8.143.032.983	681.775.040
	1+11+0	8.143.052.967	681.775.842
	1+12+0	8.143.072.951	681.776.645
	1+13+0	8.143.092.935	681.777.447
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	209.147	ÂNGULO:	02° 17' 59.0535"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	1+13+6.383	8.143.099.312	681.777.703
PI:		8.143.106.669	681.777.999
CC:		8.143.101.359	681.726.744
PT:	1+14+1.007	8.143.113.809	681.776.201
ESTACAS INTERMEDIARIAS:			
	1+14+0	8.143.112.830	681.776.438
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	16° 25' 45.3415"	TIPO:	ESQUERDO
RAIO:	51.000		
DESENVOLVIMENTO:	14.624	TANGENTE:	7.363
FLECHA:	0.523	AFASTAMENTO:	0.529
COMPRIM. CORDA:	14.574	AZIMUTE CORDA:	354° 05' 06.3828"
δ20:	11° 14' 04.0797"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	1+14+1.007	8.143.113.809	681.776.201
FIM:	1+22+0.276	8.143.268.260	681.737.321
ESTACAS INTERMEDIARIAS:			
	1+15+0	8.143.132.227	681.771.565
	1+16+0	8.143.151.622	681.766.682
	1+17+0	8.143.171.017	681.761.800
	1+18+0	8.143.190.412	681.756.918
	1+19+0	8.143.209.807	681.752.035
	1+20+0	8.143.229.202	681.747.153
	1+21+0	8.143.248.597	681.742.271
	1+22+0	8.143.267.992	681.737.388
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	159.270	ÂNGULO:	345° 52' 13.7120"

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	1+22+0.276	8.143.268.260	681.737.321
FIM:	1+24+11.277	8.143.318.264	681.727.289
ESTACAS INTERMEDIARIAS:			
	1+23+0	8.143.287.599	681.733.441
	1+24+0	8.143.307.208	681.729.507
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	51.001	ÂNGULO:	348° 39' 18.4852"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	1+24+11.277	8.143.318.264	681.727.289
FIM:	1+34+12.365	8.143.513.227	681.678.038
ESTACAS INTERMEDIARIAS:			
	1+25+0	8.143.326.721	681.725.153
	1+26+0	8.143.346.112	681.720.254
	1+27+0	8.143.365.503	681.715.356
	1+28+0	8.143.384.894	681.710.457
	1+29+0	8.143.404.285	681.705.559
	1+30+0	8.143.423.676	681.700.661
	1+31+0	8.143.443.067	681.695.762
	1+32+0	8.143.462.457	681.690.864
	1+33+0	8.143.481.848	681.685.965
	1+34+0	8.143.501.239	681.681.067
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	201.087	ÂNGULO:	345° 49' 22.3593"

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TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	0+0	8.141.932.253	680.020.219
FIM:	4+0.836	8.141.969.415	680.092.007
ESTACAS INTERMEDIARIAS:			
	1+0	8.141.941.447	680.037.980
	2+0	8.141.950.642	680.055.742
	3+0	8.141.959.836	680.073.503
	4+0	8.141.969.030	680.091.264
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	80.836	ÂNGULO:	62° 37' 52.7472"

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	4+0.836	8.141.969.415	680.092.007
FIM:	9+12.939	8.142.018.185	680.192.945
ESTACAS INTERMEDIARIAS:			
	5+0	8.141.977.752	680.109.262
	6+0	8.141.986.453	680.127.271
	7+0	8.141.995.154	680.145.279
	8+0	8.142.003.855	680.163.287
	9+0	8.142.012.556	680.181.295
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	112.103	ÂNGULO:	64° 12' 42.8091"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	9+12.939	8.142.018.185	680.192.945
FIM:	33+12.015	8.142.244.919	680.614.970
ESTACAS INTERMEDIARIAS:			
	10+0	8.142.021.527	680.199.165
	11+0	8.142.030.992	680.216.783
	12+0	8.142.040.458	680.234.402
	13+0	8.142.049.923	680.252.020
	14+0	8.142.059.389	680.269.638
	15+0	8.142.068.854	680.287.257
	16+0	8.142.078.320	680.304.875
	17+0	8.142.087.785	680.322.493
	18+0	8.142.097.251	680.340.111
	19+0	8.142.106.716	680.357.730
	20+0	8.142.116.182	680.375.348
	21+0	8.142.125.647	680.392.966
	22+0	8.142.135.113	680.410.585
	23+0	8.142.144.578	680.428.203
	24+0	8.142.154.044	680.445.821
	25+0	8.142.163.509	680.463.440
	26+0	8.142.172.975	680.481.058
	27+0	8.142.182.440	680.498.676
	28+0	8.142.191.906	680.516.294
	29+0	8.142.201.371	680.533.913
	30+0	8.142.210.837	680.551.531
	31+0	8.142.220.302	680.569.149
	32+0	8.142.229.768	680.586.768
	33+0	8.142.239.233	680.604.386
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	479.075	ÂNGULO:	61° 45' 10.4362"

CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	33+12.015	8.142.244.919	680.614.970
PI:		8.142.247.962	680.620.633
CC:		8.142.192.064	680.643.367
PT:	34+4.823	8.142.249.735	680.626.812
ESTACAS INTERMEDIARIAS:			
	34+0	8.142.248.220	680.622.235
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	12° 13' 51.2021"	TIPO:	DIREITO
RAIO:	60.000		
DESENVOLVIMENTO:	12.808	TANGENTE:	6.429
FLECHA:	0.341	AFASTAMENTO:	0.343
COMPRIM. CORDA:	12.784	AZIMUTE CORDA:	67° 52' 06.0372"
δ20:	09° 32' 57.4676"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	34+4.823	8.142.249.735	680.626.812
FIM:	35+19.168	8.142.259.211	680.659.824
ESTACAS INTERMEDIARIAS:			
	35+0	8.142.253.922	680.641.400
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	34.345	ÂNGULO:	73° 59' 01.6382"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	35+19.168	8.142.259.211	680.659.824
PI:		8.142.260.985	680.666.003
CC:		8.142.316.883	680.643.270
PT:	36+11.976	8.142.264.028	680.671.666
ESTACAS INTERMEDIARIAS:			
	36+0	8.142.259.447	680.660.622
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	12° 13' 51.2021"	TIPO:	ESQUERDO
RAIO:	60.000		
DESENVOLVIMENTO:	12.808	TANGENTE:	6.429
FLECHA:	0.341	AFASTAMENTO:	0.343
COMPRIM. CORDA:	12.784	AZIMUTE CORDA:	67° 52' 06.0372"
δ20:	09° 32' 57.4677"		

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	36+11.976	8.142.264.028	680.671.666
FIM:	49+4.623	8.142.383.599	680.894.226
ESTACAS INTERMEDIARIAS:			
	37+0	8.142.267.826	680.678.734
	38+0	8.142.277.291	680.696.353
	39+0	8.142.286.757	680.713.971
	40+0	8.142.296.222	680.731.589
	41+0	8.142.305.688	680.749.208
	42+0	8.142.315.153	680.766.826
	43+0	8.142.324.619	680.784.444
	44+0	8.142.334.084	680.802.063
	45+0	8.142.343.550	680.819.681
	46+0	8.142.353.015	680.837.299
	47+0	8.142.362.481	680.854.917
	48+0	8.142.371.946	680.872.536
	49+0	8.142.381.412	680.890.154
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	252.646	ÂNGULO:	61° 45' 10.4362"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	49+4.623	8.142.383.599	680.894.226
FIM:	60+1.778	8.142.477.112	681.090.215
ESTACAS INTERMEDIARIAS:			
	50+0	8.142.390.221	680.908.104
	51+0	8.142.398.833	680.926.155
	52+0	8.142.407.446	680.944.205
	53+0	8.142.416.059	680.962.256
	54+0	8.142.424.671	680.980.306
	55+0	8.142.433.284	680.998.357
	56+0	8.142.441.896	681.016.408
	57+0	8.142.450.509	681.034.458
	58+0	8.142.459.122	681.052.509
	59+0	8.142.467.734	681.070.559
	60+0	8.142.476.347	681.088.610
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	217.155	ÂNGULO:	64° 29' 32.7628"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	60+1.778	8.142.477.112	681.090.215
FIM:	72+6.580	8.142.565.824	681.318.378

ESTACAS INTERMEDIARIAS:			
	61+0	8.142.483.715	681.107.198
	62+0	8.142.490.963	681.125.839
	63+0	8.142.498.211	681.144.480
	64+0	8.142.505.458	681.163.120
	65+0	8.142.512.706	681.181.761
	66+0	8.142.519.953	681.200.401
	67+0	8.142.527.201	681.219.042
	68+0	8.142.534.449	681.237.683
	69+0	8.142.541.696	681.256.323
	70+0	8.142.548.944	681.274.964
	71+0	8.142.556.191	681.293.604
	72+0	8.142.563.439	681.312.245
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	244.802	ÂNGULO:	68° 45' 12.6318"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	72+6.580	8.142.565.824	681.318.378
FIM:	96+5.058	8.142.797.235	681.737.174
ESTACAS INTERMEDIARIAS:			
	73+0	8.142.572.314	681.330.124
	74+0	8.142.581.987	681.347.629
	75+0	8.142.591.660	681.365.135
	76+0	8.142.601.333	681.382.640
	77+0	8.142.611.006	681.400.145
	78+0	8.142.620.678	681.417.651
	79+0	8.142.630.351	681.435.156
	80+0	8.142.640.024	681.452.662
	81+0	8.142.649.697	681.470.167
	82+0	8.142.659.370	681.487.672
	83+0	8.142.669.042	681.505.178
	84+0	8.142.678.715	681.522.683
	85+0	8.142.688.388	681.540.188
	86+0	8.142.698.061	681.557.694
	87+0	8.142.707.733	681.575.199
	88+0	8.142.717.406	681.592.704
	89+0	8.142.727.079	681.610.210
	90+0	8.142.736.752	681.627.715
	91+0	8.142.746.425	681.645.220
	92+0	8.142.756.097	681.662.726
	93+0	8.142.765.770	681.680.231
	94+0	8.142.775.443	681.697.736
	95+0	8.142.785.116	681.715.242
	96+0	8.142.794.789	681.732.747

CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	478.478	ÂNGULO:	61° 04' 35.8948"
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	96+5.058	8.142.797.235	681.737.174
PI:		8.142.806.496	681.753.934
CC:		8.142.826.994	681.720.730
PT:	97+19.937	8.142.825.630	681.754.703
ESTACAS INTERMEDIARIAS:			
	97+0	8.142.807.059	681.748.273
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	58° 46' 36.8413"	TIPO:	ESQUERDO
RAIO:	34.000		
DESENVOLVIMENTO:	34.879	TANGENTE:	19.149
FLECHA:	4.375	AFASTAMENTO:	5.022
COMPRIM. CORDA:	33.370	AZIMUTE CORDA:	31° 41' 17.4742"
δ20:	16° 51' 06.1195"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	97+19.937	8.142.825.630	681.754.703
FIM:	1+11+14.322	8.143.099.794	681.765.713
ESTACAS INTERMEDIARIAS:			
	98+0	8.142.825.693	681.754.706
	99+0	8.142.845.677	681.755.508
	1+00+0	8.142.865.661	681.756.311
	1+01+0	8.142.885.645	681.757.113
	1+02+0	8.142.905.629	681.757.916
	1+03+0	8.142.925.612	681.758.718
	1+04+0	8.142.945.596	681.759.521
	1+05+0	8.142.965.580	681.760.323
	1+06+0	8.142.985.564	681.761.126
	1+07+0	8.143.005.548	681.761.928
	1+08+0	8.143.025.532	681.762.731
	1+09+0	8.143.045.516	681.763.534
	1+10+0	8.143.065.500	681.764.336
	1+11+0	8.143.085.484	681.765.139
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	274.385	ÂNGULO:	02° 17' 59.0535"

CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	1+11+14.322	8.143.099.794	681.765.713
PI:		8.143.105.419	681.765.939
CC:		8.143.101.359	681.726.744
PT:	1+12+5.505	8.143.110.879	681.764.564
ESTACAS INTERMEDIARIAS:			
	1+12+0	8.143.105.464	681.765.528
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	16° 25' 45.3415"	TIPO:	ESQUERDO
RAIO:	39.000		
DESENVOLVIMENTO:	11.183	TANGENTE:	5.630
FLECHA:	0.400	AFASTAMENTO:	0.404
COMPRIM. CORDA:	11.145	AZIMUTE CORDA:	354° 05' 06.3828"
δ20:	14° 41' 28.4119"		
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	1+12+5.505	8.143.110.879	681.764.564
FIM:	1+20+5.066	8.143.265.613	681.725.613
ESTACAS INTERMEDIARIAS:			
	1+13+0	8.143.124.935	681.761.026
	1+14+0	8.143.144.330	681.756.143
	1+15+0	8.143.163.725	681.751.261
	1+16+0	8.143.183.120	681.746.379
	1+17+0	8.143.202.515	681.741.496
	1+18+0	8.143.221.910	681.736.614
	1+19+0	8.143.241.305	681.731.732
	1+20+0	8.143.260.700	681.726.849
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	159.561	ÂNGULO:	345° 52' 13.7120"
TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	1+20+5.066	8.143.265.613	681.725.613
FIM:	1+22+16.062	8.143.315.613	681.715.582
ESTACAS INTERMEDIARIAS:			
	1+21+0	8.143.280.255	681.722.675
	1+22+0	8.143.299.864	681.718.741
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	50.996	ÂNGULO:	348° 39' 18.4852"

TANGENTE			
Descrição	ESTACAS	NORTE	ESTE
INÍCIO:	1+22+16.062	8.143.315.613	681.715.582
FIM:	1+32+16.853	8.143.510.288	681.666.404
ESTACAS INTERMEDIARIAS:			
	1+23+0	8.143.319.431	681.714.618
	1+24+0	8.143.338.822	681.709.719
	1+25+0	8.143.358.213	681.704.821
	1+26+0	8.143.377.604	681.699.922
	1+27+0	8.143.396.995	681.695.024
	1+28+0	8.143.416.385	681.690.125
	1+29+0	8.143.435.776	681.685.227
	1+30+0	8.143.455.167	681.680.329
	1+31+0	8.143.474.558	681.675.430
	1+32+0	8.143.493.949	681.670.532
CARACTERÍSTICAS DA TANGENTE			
TIPO	VALOR	PARÂMETRO	VALOR
COMPRIMENTO:	200.791	ÂNGULO:	345° 49' 22.3593"

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CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	0+0	8.142.094.407	678.543.491
PI:		8.142.117.347	678.541.312
CC:		8.142.102.495	678.628.631
PCC:	2+5.016	8.142.138.276	678.550.953
ESTACAS INTERMEDIARIAS:			
	1+0	8.142.114.357	678.543.934
	2+0	8.142.133.661	678.548.989
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	30° 09' 30.8245"	TIPO:	DIREITO
RAIO:	85.523		
DESENVOLVIMENTO:	45.016	TANGENTE:	23.043
FLECHA:	2.945	AFASTAMENTO:	3.050
COMPRIM. CORDA:	44.498	AZIMUTE CORDA:	09° 39' 10.9788"
δ20:	06° 41' 58.0765"		
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	2+5.016	8.142.138.276	678.550.953
PI:		8.142.171.705	678.566.287
CC:		8.142.009.852	678.830.913
PCC:	5+18.228	8.142.200.584	678.589.062

ESTACAS INTERMEDIARIAS:			
	3+0	8.142.151.738	678.557.529
	4+0	8.142.169.178	678.567.311
	5+0	8.142.185.946	678.578.205
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	13° 37' 07.1501"	TIPO:	DIREITO
RAIO:	308.011		
DESENVOLVIMENTO:	73.211	TANGENTE:	36.779
FLECHA:	2.173	AFASTAMENTO:	2.188
COMPRIM. CORDA:	73.039	AZIMUTE CORDA:	31° 27' 04.5218"
δ20:	01° 51' 36.6687"		
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	5+18.228	8.142.200.584	678.589.062
PI:		8.142.304.146	678.670.735
CC:		8.142.029.984	678.805.386
PT:	18+4.245	8.142.305.470	678.802.621
ESTACAS INTERMEDIARIAS:			
	6+0	8.142.201.972	678.590.164
	7+0	8.142.217.130	678.603.206
	8+0	8.142.231.301	678.617.312
	9+0	8.142.244.412	678.632.410
	10+0	8.142.256.394	678.648.418
	11+0	8.142.267.182	678.665.253
	12+0	8.142.276.722	678.682.827
	13+0	8.142.284.961	678.701.046
	14+0	8.142.291.858	678.719.814
	15+0	8.142.297.374	678.739.034
	16+0	8.142.301.483	678.758.603
	17+0	8.142.304.161	678.778.418
	18+0	8.142.305.395	678.798.376
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	51° 09' 51.6704"	TIPO:	DIREITO
RAIO:	275.500		
DESENVOLVIMENTO:	246.018	TANGENTE:	131.892
FLECHA:	27.008	AFASTAMENTO:	29.944
COMPRIM. CORDA:	237.925	AZIMUTE CORDA:	63° 50' 33.9320"
δ20:	02° 04' 46.9258"		

AV. DELFIM MOREIRA - LE

CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	0+0.00	8.142.091.786	678.524.053
PI:		8.142.232.908	678.561.733
CC:		8.142.009.852	678.830.913
PCC:	13+13.811	8.142.296.150	678.693.399
ESTACAS INTERMEDIARIAS:			
	1+0.00	8.142.110.934	678.529.817
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	49° 23' 39.8609"	TIPO:	DIREITO
RAIO:	317.611		
DESENVOLVIMENTO:	273.811	TANGENTE:	146.066
FLECHA:	29.052	AFASTAMENTO:	31.977
COMPRIM. CORDA:	265.410	AZIMUTE CORDA:	39° 38' 48.8729"
δ20:	01° 48' 14.2574"		
CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PCC:	13+13.811	8.142.296.150	678.693.399
PI:		8.142.310.891	678.724.090
CC:		8.142.304.262	678.689.502
PT:	14+17.434	8.142.313.241	678.690.123
ESTACAS INTERMEDIARIAS:			
	14+0	8.142.300.467	678.697.663
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	150° 23' 12.0858"	TIPO:	ESQUERDO
RAIO:	9.000		
DESENVOLVIMENTO:	23.623	TANGENTE:	34.048
FLECHA:	6.700	AFASTAMENTO:	26.217
COMPRIM. CORDA:	17.402	AZIMUTE CORDA:	349° 09' 02.7606"
δ20:	63° 39' 43.1158"		

ALINHAMENTO: ROTATÓRIA

CURVA CIRCULAR			
DESCRIÇÃO	ESTACA	NORTE	ESTE
PC:	0+0.00	8.141.894.587	680.038.348
PI:		8.141.894.592	680.038.349
CC:		8.141.898.748	679.998.799
PT:	12+9.856	8.141.894.577	680.038.347
ESTACAS INTERMEDIARIAS:			
	1+0.00	8.141.914.164	680.035.456
CARACTERÍSTICAS DA CURVA CIRCULAR			
PARÂMETRO	VALOR	PARÂMETRO	VALOR
AC:	359° 59' 08.1322"	TIPO:	ESQUERDO
RAIO:	39.767		
DESENVOLVIMENTO:	249.856	TANGENTE:	0.005
FLECHA:	79.535	AFASTAMENTO:	79.535
COMPRIM. CORDA:	0.010	AZIMUTE CORDA:	186° 00' 46.1355"
δ20:	14° 24' 27.8440"		

9. Curvas Verticais – Eixo 02

CURVAS VERTICAIS

AV. BEIRA MAR - LD

Estaca: Início: 0+000.00, Fim: 176+019.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	-0.75%		
1.00	0+120.00	-3.27%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+070.00	Elevação:	867.077m
	PVI Estaca:	0+120.00	Elevação:	866.700m
	PVT Estaca:	0+170.00	Elevação:	865.063m
	Ponto Alto:	0+070.00	Elevação:	867.077m
	Rampa 1(%):	-0.75%	Rampa 2(%):	-3.27%
	Diferença:	2.52%	K:	396.769.528.836.614
	Comprimento de Curva:	100.000m		
2.00	0+340.00	-4.32%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+290.00	Elevação:	861.135m
	PVI Estaca:	0+340.00	Elevação:	859.498m
	PVT Estaca:	0+390.00	Elevação:	857.340m
	Ponto Alto:	0+290.00	Elevação:	861.135m
	Rampa 1(%):	-3.27%	Rampa 2(%):	-4.32%
	Diferença:	1.04%	K:	958.156.686.055.136
	Comprimento de Curva:	100.000m		
3.00	0+560.00	-5.32%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+510.00	Elevação:	852.159m
	PVI Estaca:	0+560.00	Elevação:	850.000m
	PVT Estaca:	0+610.00	Elevação:	847.341m
	Ponto Alto:	0+510.00	Elevação:	852.159m
	Rampa 1(%):	-4.32%	Rampa 2(%):	-5.32%
	Diferença:	1.00%	K:	998.891.986.846.245
	Comprimento de Curva:	100.000m		
4.00	0+740.00	-2.77%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+690.00	Elevação:	843.086m
	PVI Estaca:	0+740.00	Elevação:	840.427m
	PVT Estaca:	0+790.00	Elevação:	839.044m
	Ponto Baixo:	0+790.00	Elevação:	839.044m
	Rampa 1(%):	-5.32%	Rampa 2(%):	-2.77%
	Diferença:	2.55%	K:	39.164.444.914.929
	Comprimento de Curva:	100.000m		

5.00	0+899.95	-2.77%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+849.95	Elevação:	837.386m
	PVI Estaca:	0+899.95	Elevação:	836.004m
	PVT Estaca:	0+949.95	Elevação:	834.621m
	Ponto Alto:	0+849.95	Elevação:	837.386m
	Rampa 1(%):	-2.77%	Rampa 2(%):	-2.77%
	Diferença:	0.00%	K:	836.884.231.177.081
	Comprimento de Curva:	100.000m		
6.00	1+130.00	-1.89%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	1+080.00	Elevação:	831.023m
	PVI Estaca:	1+130.00	Elevação:	829.640m
	PVT Estaca:	1+180.00	Elevação:	828.695m
	Ponto Baixo:	1+180.00	Elevação:	828.695m
	Rampa 1(%):	-2.77%	Rampa 2(%):	-1.89%
	Diferença:	0.88%	K:	114.230.431.464.155
	Comprimento de Curva:	100.000m		
7.00	1+460.00	-3.73%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+410.00	Elevação:	824.346m
	PVI Estaca:	1+460.00	Elevação:	823.400m
	PVT Estaca:	1+510.00	Elevação:	821.537m
	Ponto Alto:	1+410.00	Elevação:	824.346m
	Rampa 1(%):	-1.89%	Rampa 2(%):	-3.73%
	Diferença:	1.83%	K:	544.995.365.909.321
	Comprimento de Curva:	100.000m		
8.00	1+650.00	-1.72%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	1+600.00	Elevação:	818.184m
	PVI Estaca:	1+650.00	Elevação:	816.321m
	PVT Estaca:	1+700.00	Elevação:	815.460m
	Ponto Baixo:	1+700.00	Elevação:	815.460m
	Rampa 1(%):	-3.73%	Rampa 2(%):	-1.72%
	Diferença:	2.00%	K:	499.225.271.953.251
	Comprimento de Curva:	100.000m		
9.00	1+760.19			

AV. BEIRA MAR - LE

Estaca: Início: 0+000.00, Fim: 174+263.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	-1.17%		
1.00	0+120.00	-3.36%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+070.00	Elevação:	866.941m
	PVI Estaca:	0+120.00	Elevação:	866.358m
	PVT Estaca:	0+170.00	Elevação:	864.675m
	Ponto Alto:	0+070.00	Elevação:	866.941m
	Rampa 1(%):	-1.17%	Rampa 2(%):	-3.36%
	Diferença:	2.20%	K:	454.979.517.154.562
	Comprimento de Curva:	100.000m		
2.00	0+340.00	-4.38%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+290.00	Elevação:	860.638m
	PVI Estaca:	0+340.00	Elevação:	858.956m
	PVT Estaca:	0+390.00	Elevação:	856.768m
	Ponto Alto:	0+290.00	Elevação:	860.638m
	Rampa 1(%):	-3.36%	Rampa 2(%):	-4.38%
	Diferença:	1.01%	K:	988.972.719.867.186
	Comprimento de Curva:	100.000m		
3.00	0+560.00	-5.40%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+510.00	Elevação:	851.517m
	PVI Estaca:	0+560.00	Elevação:	849.329m
	PVT Estaca:	0+610.00	Elevação:	846.627m
	Ponto Alto:	0+510.00	Elevação:	851.517m
	Rampa 1(%):	-4.38%	Rampa 2(%):	-5.40%
	Diferença:	1.03%	K:	972.239.251.758.062
	Comprimento de Curva:	100.000m		
4.00	0+720.00	-2.83%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+670.00	Elevação:	843.385m
	PVI Estaca:	0+720.00	Elevação:	840.683m
	PVT Estaca:	0+770.00	Elevação:	839.269m
	Ponto Baixo:	0+770.00	Elevação:	839.269m
	Rampa 1(%):	-5.40%	Rampa 2(%):	-2.83%
	Diferença:	2.58%	K:	387.984.585.392.366
	Comprimento de Curva:	100.000m		

5.00	1+110.00	-1.85%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	1+060.00	Elevação:	831.072m
	PVI Estaca:	1+110.00	Elevação:	829.658m
	PVT Estaca:	1+160.00	Elevação:	828.735m
	Ponto Baixo:	1+160.00	Elevação:	828.735m
	Rampa 1(%):	-2.83%	Rampa 2(%):	-1.85%
	Diferença:	0.98%	K:	102.074.063.077.037
	Comprimento de Curva:	100.000m		
6.00	1+450.00	-3.81%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+400.00	Elevação:	824.302m
	PVI Estaca:	1+450.00	Elevação:	823.378m
	PVT Estaca:	1+500.00	Elevação:	821.473m
	Ponto Alto:	1+400.00	Elevação:	824.302m
	Rampa 1(%):	-1.85%	Rampa 2(%):	-3.81%
	Diferença:	1.96%	K:	509.463.270.909.052
	Comprimento de Curva:	100.000m		
7.00	1+650.00	-0.88%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	1+600.00	Elevação:	817.663m
	PVI Estaca:	1+650.00	Elevação:	815.758m
	PVT Estaca:	1+700.00	Elevação:	815.320m
	Ponto Baixo:	1+700.00	Elevação:	815.320m
	Rampa 1(%):	-3.81%	Rampa 2(%):	-0.88%
	Diferença:	2.93%	K:	340.958.602.159.855
	Comprimento de Curva:	100.000m		
8.00	1+742.63			

AV. BRASIL - LD

Estaca: Início: 0+000.00, Fim: 41+892.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	-2.02%		
1.00	0+140.00	2.14%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+090.00	Elevação:	813.012m
	PVI Estaca:	0+140.00	Elevação:	812.000m
	PVT Estaca:	0+190.00	Elevação:	813.071m
	Ponto Baixo:	0+138.57	Elevação:	812.520m
	Rampa 1(%):	-2.02%	Rampa 2(%):	2.14%
	Diferença:	4.17%	K:	240.003.216.928.782
	Comprimento de Curva:	100.000m		

2.00	0+280.00	6.04%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+230.00	Elevação:	813.929m
	PVI Estaca:	0+280.00	Elevação:	815.000m
	PVT Estaca:	0+330.00	Elevação:	818.020m
	Ponto Baixo:	0+230.00	Elevação:	813.929m
	Rampa 1(%):	2.14%	Rampa 2(%):	6.04%
	Diferença:	3.90%	K:	256.641.724.646.879
	Comprimento de Curva:	100.000m		
3.00	0+380.00	4.65%	60.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+350.00	Elevação:	819.228m
	PVI Estaca:	0+380.00	Elevação:	821.039m
	PVT Estaca:	0+410.00	Elevação:	822.433m
	Ponto Alto:	0+410.00	Elevação:	822.433m
	Rampa 1(%):	6.04%	Rampa 2(%):	4.65%
	Diferença:	1.39%	K:	430.901.879.202.446
	Comprimento de Curva:	60.000m		
4.00	0+418.92			

AV. BRASIL - LE

Estaca: Início: 0+000.00, Fim: 42+280.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	-2.00%		
1.00	0+140.00	2.09%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+090.00	Elevação:	813.011m
	PVI Estaca:	0+140.00	Elevação:	812.010m
	PVT Estaca:	0+190.00	Elevação:	813.058m
	Ponto Baixo:	0+138.86	Elevação:	812.522m
	Rampa 1(%):	-2.00%	Rampa 2(%):	2.09%
	Diferença:	4.10%	K:	244.119.433.683.035
	Comprimento de Curva:	100.000m		
2.00	0+280.00	6.00%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+230.00	Elevação:	813.896m
	PVI Estaca:	0+280.00	Elevação:	814.943m
	PVT Estaca:	0+330.00	Elevação:	817.944m
	Ponto Baixo:	0+230.00	Elevação:	813.896m
	Rampa 1(%):	2.09%	Rampa 2(%):	6.00%
	Diferença:	3.91%	K:	255.982.329.451.169
	Comprimento de Curva:	100.000m		

3.00	0+380.00	4.60%	60.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+350.00	Elevação:	819.144m
	PVI Estaca:	0+380.00	Elevação:	820.944m
	PVT Estaca:	0+410.00	Elevação:	822.324m
	Ponto Alto:	0+410.00	Elevação:	822.324m
	Rampa 1(%):	6.00%	Rampa 2(%):	4.60%
	Diferença:	1.40%	K:	427.996.666.759.624
	Comprimento de Curva:	60.000m		
4.00	0+422.80			

AV. DAS NAÇÕES - LD

Estaca: Início: 0+032.00, Fim: 269+236.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+080.00	-0.99%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+030.00	Elevação:	824.558m
	PVI Estaca:	0+080.00	Elevação:	824.498m
	PVT Estaca:	0+130.00	Elevação:	824.004m
	Ponto Alto:	0+030.00	Elevação:	824.558m
	Rampa 1(%):	-0.12%	Rampa 2(%):	-0.99%
	Diferença:	0.87%	K:	114.975.860.286.532
	Comprimento de Curva:	100.000m		
1.00	0+210.00	-2.01%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+160.00	Elevação:	823.707m
	PVI Estaca:	0+210.00	Elevação:	823.213m
	PVT Estaca:	0+260.00	Elevação:	822.207m
	Ponto Alto:	0+160.00	Elevação:	823.707m
	Rampa 1(%):	-0.99%	Rampa 2(%):	-2.01%
	Diferença:	1.02%	K:	97.638.333.006.267
	Comprimento de Curva:	100.000m		
2.00	0+500.00	-1.68%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+450.00	Elevação:	818.382m
	PVI Estaca:	0+500.00	Elevação:	817.376m
	PVT Estaca:	0+550.00	Elevação:	816.534m
	Ponto Baixo:	0+550.00	Elevação:	816.534m
	Rampa 1(%):	-2.01%	Rampa 2(%):	-1.68%
	Diferença:	0.33%	K:	303.013.979.564.703
	Comprimento de Curva:	100.000m		

3.00	0+760.00	-0.55%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+710.00	Elevação:	813.841m
	PVI Estaca:	0+760.00	Elevação:	813.000m
	PVT Estaca:	0+810.00	Elevação:	812.727m
	Ponto Baixo:	0+810.00	Elevação:	812.727m
	Rampa 1(%):	-1.68%	Rampa 2(%):	-0.55%
	Diferença:	1.14%	K:	879.821.317.169.392
	Comprimento de Curva:	100.000m		
4.00	1+080.00	-0.48%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	1+030.00	Elevação:	811.525m
	PVI Estaca:	1+080.00	Elevação:	811.252m
	PVT Estaca:	1+130.00	Elevação:	811.013m
	Ponto Baixo:	1+130.00	Elevação:	811.013m
	Rampa 1(%):	-0.55%	Rampa 2(%):	-0.48%
	Diferença:	0.07%	K:	145.348.749.979.548
	Comprimento de Curva:	100.000m		
5.00	1+390.00	1.13%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	1+340.00	Elevação:	810.010m
	PVI Estaca:	1+390.00	Elevação:	809.772m
	PVT Estaca:	1+440.00	Elevação:	810.335m
	Ponto Baixo:	1+369.76	Elevação:	809.939m
	Rampa 1(%):	-0.48%	Rampa 2(%):	1.13%
	Diferença:	1.60%	K:	623.126.929.805.947
	Comprimento de Curva:	100.000m		
6.00	1+510.00	-0.05%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+460.00	Elevação:	810.561m
	PVI Estaca:	1+510.00	Elevação:	811.124m
	PVT Estaca:	1+560.00	Elevação:	811.099m
	Ponto Alto:	1+555.78	Elevação:	811.100m
	Rampa 1(%):	1.13%	Rampa 2(%):	-0.05%
	Diferença:	1.18%	K:	849.616.230.174.841
	Comprimento de Curva:	100.000m		
7.00	1+760.00	-3.53%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+710.00	Elevação:	811.025m
	PVI Estaca:	1+760.00	Elevação:	811.000m
	PVT Estaca:	1+810.00	Elevação:	809.235m
	Ponto Alto:	1+710.00	Elevação:	811.025m
	Rampa 1(%):	-0.05%	Rampa 2(%):	-3.53%
	Diferença:	3.48%	K:	28.738.058.006.552
	Comprimento de Curva:	100.000m		

8.00	1+930.00	-5.88%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+880.00	Elevação:	806.765m
	PVI Estaca:	1+930.00	Elevação:	805.000m
	PVT Estaca:	1+980.00	Elevação:	802.059m
	Ponto Alto:	1+880.00	Elevação:	806.765m
	Rampa 1(%):	-3.53%	Rampa 2(%):	-5.88%
	Diferença:	2.35%	K:	424.999.999.999.976
	Comprimento de Curva:	100.000m		
9.00	2+100.00	-9.65%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	2+050.00	Elevação:	797.941m
	PVI Estaca:	2+100.00	Elevação:	795.000m
	PVT Estaca:	2+150.00	Elevação:	790.176m
	Ponto Alto:	2+050.00	Elevação:	797.941m
	Rampa 1(%):	-5.88%	Rampa 2(%):	-9.65%
	Diferença:	3.76%	K:	265.624.999.999.985
	Comprimento de Curva:	100.000m		
10.00	2+270.00	-0.33%	80.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	2+230.00	Elevação:	782.459m
	PVI Estaca:	2+270.00	Elevação:	778.600m
	PVT Estaca:	2+310.00	Elevação:	778.467m
	Ponto Baixo:	2+310.00	Elevação:	778.467m
	Rampa 1(%):	-9.65%	Rampa 2(%):	-0.33%
	Diferença:	9.31%	K:	858.947.368.421.074
	Comprimento de Curva:	80.000m		
11.00	2+390.00	9.23%	80.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	2+350.00	Elevação:	778.333m
	PVI Estaca:	2+390.00	Elevação:	778.200m
	PVT Estaca:	2+430.00	Elevação:	781.891m
	Ponto Baixo:	2+352.79	Elevação:	778.329m
	Rampa 1(%):	-0.33%	Rampa 2(%):	9.23%
	Diferença:	9.56%	K:	836.856.122.139.139
	Comprimento de Curva:	80.000m		
12.00	2+580.00	7.12%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	2+530.00	Elevação:	791.117m
	PVI Estaca:	2+580.00	Elevação:	795.730m
	PVT Estaca:	2+630.00	Elevação:	799.292m
	Ponto Alto:	2+630.00	Elevação:	799.292m
	Rampa 1(%):	9.23%	Rampa 2(%):	7.12%
	Diferença:	2.10%	K:	475.728.167.579.495
	Comprimento de Curva:	100.000m		
13.00	2+692.36			

AV. DAS NAÇÕES - LE

Estaca: Início: 0+000.00, Fim: 265+685.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	-0.12%		
1.00	0+080.00	-0.84%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+030.00	Elevação:	823.773m
	PVI Estaca:	0+080.00	Elevação:	823.711m
	PVT Estaca:	0+130.00	Elevação:	823.291m
	Ponto Alto:	0+030.00	Elevação:	823.773m
	Rampa 1(%):	-0.12%	Rampa 2(%):	-0.84%
	Diferença:	0.72%	K:	139.393.974.108.842
	Comprimento de Curva:	100.000m		
2.00	0+210.00	-1.99%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+160.00	Elevação:	823.039m
	PVI Estaca:	0+210.00	Elevação:	822.619m
	PVT Estaca:	0+260.00	Elevação:	821.626m
	Ponto Alto:	0+160.00	Elevação:	823.039m
	Rampa 1(%):	-0.84%	Rampa 2(%):	-1.99%
	Diferença:	1.15%	K:	872.853.494.887.095
	Comprimento de Curva:	100.000m		
3.00	0+500.00	-1.73%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+450.00	Elevação:	817.852m
	PVI Estaca:	0+500.00	Elevação:	816.859m
	PVT Estaca:	0+550.00	Elevação:	815.992m
	Ponto Baixo:	0+550.00	Elevação:	815.992m
	Rampa 1(%):	-1.99%	Rampa 2(%):	-1.73%
	Diferença:	0.25%	K:	396.990.591.049.818
	Comprimento de Curva:	100.000m		
4.00	0+710.00	-0.72%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+660.00	Elevação:	814.084m
	PVI Estaca:	0+710.00	Elevação:	813.217m
	PVT Estaca:	0+760.00	Elevação:	812.860m
	Ponto Baixo:	0+760.00	Elevação:	812.860m
	Rampa 1(%):	-1.73%	Rampa 2(%):	-0.72%
	Diferença:	1.02%	K:	981.355.493.917.345
	Comprimento de Curva:	100.000m		

5.00	1+020.00	-0.31%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+970.00	Elevação:	811.358m
	PVI Estaca:	1+020.00	Elevação:	811.000m
	PVT Estaca:	1+070.00	Elevação:	810.847m
	Ponto Baixo:	1+070.00	Elevação:	810.847m
	Rampa 1(%):	-0.72%	Rampa 2(%):	-0.31%
	Diferença:	0.41%	K:	244.959.325.689.602
	Comprimento de Curva:	100.000m		
6.00	1+390.00	1.17%	100.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	1+340.00	Elevação:	810.018m
	PVI Estaca:	1+390.00	Elevação:	809.864m
	PVT Estaca:	1+440.00	Elevação:	810.449m
	Ponto Baixo:	1+360.80	Elevação:	809.986m
	Rampa 1(%):	-0.31%	Rampa 2(%):	1.17%
	Diferença:	1.48%	K:	677.411.556.592.273
	Comprimento de Curva:	100.000m		
7.00	1+500.00	-0.21%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+450.00	Elevação:	810.566m
	PVI Estaca:	1+500.00	Elevação:	811.150m
	PVT Estaca:	1+550.00	Elevação:	811.048m
	Ponto Alto:	1+535.06	Elevação:	811.063m
	Rampa 1(%):	1.17%	Rampa 2(%):	-0.21%
	Diferença:	1.37%	K:	727.521.293.217.941
	Comprimento de Curva:	100.000m		
8.00	1+760.00	-3.91%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+710.00	Elevação:	810.719m
	PVI Estaca:	1+760.00	Elevação:	810.617m
	PVT Estaca:	1+810.00	Elevação:	808.663m
	Ponto Alto:	1+710.00	Elevação:	810.719m
	Rampa 1(%):	-0.21%	Rampa 2(%):	-3.91%
	Diferença:	3.70%	K:	270.180.940.719.717
	Comprimento de Curva:	100.000m		
9.00	1+920.00	-6.87%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	1+870.00	Elevação:	806.319m
	PVI Estaca:	1+920.00	Elevação:	804.366m
	PVT Estaca:	1+970.00	Elevação:	800.931m
	Ponto Alto:	1+870.00	Elevação:	806.319m
	Rampa 1(%):	-3.91%	Rampa 2(%):	-6.87%
	Diferença:	2.96%	K:	337.438.569.105.891
	Comprimento de Curva:	100.000m		

10.00	2+100.00	-9.13%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	2+050.00	Elevação:	795.435m
	PVI Estaca:	2+100.00	Elevação:	792.000m
	PVT Estaca:	2+150.00	Elevação:	787.433m
	Ponto Alto:	2+050.00	Elevação:	795.435m
	Rampa 1(%):	-6.87%	Rampa 2(%):	-9.13%
	Diferença:	2.26%	K:	441.832.565.907.483
	Comprimento de Curva:	100.000m		
11.00	2+250.00	0.18%	80.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	2+210.00	Elevação:	781.953m
	PVI Estaca:	2+250.00	Elevação:	778.300m
	PVT Estaca:	2+290.00	Elevação:	778.373m
	Ponto Baixo:	2+288.44	Elevação:	778.371m
	Rampa 1(%):	-9.13%	Rampa 2(%):	0.18%
	Diferença:	9.32%	K:	858.815.875.081.322
	Comprimento de Curva:	80.000m		
12.00	2+360.00	9.08%	80.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	2+320.00	Elevação:	778.427m
	PVI Estaca:	2+360.00	Elevação:	778.500m
	PVT Estaca:	2+400.00	Elevação:	782.132m
	Ponto Baixo:	2+320.00	Elevação:	778.427m
	Rampa 1(%):	0.18%	Rampa 2(%):	9.08%
	Diferença:	8.90%	K:	899.172.194.251.785
	Comprimento de Curva:	80.000m		
13.00	2+580.00	6.80%	100.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	2+530.00	Elevação:	793.934m
	PVI Estaca:	2+580.00	Elevação:	798.474m
	PVT Estaca:	2+630.00	Elevação:	801.875m
	Ponto Alto:	2+630.00	Elevação:	801.875m
	Rampa 1(%):	9.08%	Rampa 2(%):	6.80%
	Diferença:	2.28%	K:	439.440.914.132.919
	Comprimento de Curva:	100.000m		
14.00	2+656.85			

AV. DELFIM MOREIRA - LD

Estaca: Início: 0+000.00, Fim: 36+425.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	0,00%		
1.00	0+040.00	-1.36%	80.000m	
Informação de Curvas Verticais: (Curva Convexa)				
	PVC Estaca:	0+000.00	Elevação:	847.528m
	PVI Estaca:	0+040.00	Elevação:	848.474m
	PVT Estaca:	0+080.00	Elevação:	847.930m
	Ponto Alto:	0+050.81	Elevação:	848.128m
	Rampa 1(%):	2.37%	Rampa 2(%):	-1.36%
	Diferença:	3.72%	K:	21.479.604.755.114
	Comprimento de Curva:	80.000m		
2.00	0+276.32	-4.81%	80.000m	
Informação de Curvas Verticais: (Curva Convexa)				
	PVC Estaca:	0+236.32	Elevação:	845.806m
	PVI Estaca:	0+276.32	Elevação:	845.262m
	PVT Estaca:	0+316.32	Elevação:	843.339m
	Ponto Alto:	0+236.32	Elevação:	845.806m
	Rampa 1(%):	-1.36%	Rampa 2(%):	-4.81%
	Diferença:	3.45%	K:	23.194.306.618.522
	Comprimento de Curva:	80.000m		
3.00	0+364.25			

AV. DELFIM MOREIRA - LE

Estaca: Início: 0+000.00, Fim: 29+743.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	-0.39%		
1.00	0+090.00	-1.38%	80.000m	
Informação de Curvas Verticais: (Curva Convexa)				
	PVC Estaca:	0+050.00	Elevação:	848.887m
	PVI Estaca:	0+090.00	Elevação:	848.732m
	PVT Estaca:	0+130.00	Elevação:	848.180m
	Ponto Alto:	0+050.00	Elevação:	848.887m
	Rampa 1(%):	-0.39%	Rampa 2(%):	-1.38%
	Diferença:	0.99%	K:	807.271.436.329.086
	Comprimento de Curva:	80.000m		
2.00	0+270.00	3.32%	40.000m	
Informação de Curvas Verticais: (Curva Côncava)				
	PVC Estaca:	0+250.00	Elevação:	846.525m
	PVI Estaca:	0+270.00	Elevação:	846.249m
	PVT Estaca:	0+290.00	Elevação:	846.913m
	Ponto Baixo:	0+261.74	Elevação:	846.444m
	Rampa 1(%):	-1.38%	Rampa 2(%):	3.32%
	Diferença:	4.70%	K:	850.745.908.163.625
	Comprimento de Curva:	40.000m		

3.00	0+297.43			
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ROTATÓRIA

Estaca: Início: 0+000.00, Fim: 24+986.00				
PVI	Estaca	Rampa 2(%)	Comprimento de Curva	
0.00	0+000.00	-3.89%		
1.00	0+080.00	3.18%	80.000m	
	Informação de Curvas Verticais: (Curva Côncava)			
	PVC Estaca:	0+040.00	Elevação:	823.701m
	PVI Estaca:	0+080.00	Elevação:	822.146m
	PVT Estaca:	0+120.00	Elevação:	823.419m
	Ponto Baixo:	0+083.99	Elevação:	822.846m
	Rampa 1(%):	-3.89%	Rampa 2(%):	3.18%
	Diferença:	7.07%	K:	113.202.080.608.865
	Comprimento de Curva:	80.000m		
2.00	0+210.00	-2.57%	60.000m	
	Informação de Curvas Verticais: (Curva Convexa)			
	PVC Estaca:	0+180.00	Elevação:	825.327m
	PVI Estaca:	0+210.00	Elevação:	826.281m
	PVT Estaca:	0+240.00	Elevação:	825.509m
	Ponto Alto:	0+213.17	Elevação:	825.855m
	Rampa 1(%):	3.18%	Rampa 2(%):	-2.57%
	Diferença:	5.75%	K:	104.278.673.710.093
	Comprimento de Curva:	60.000m		
3.00	0+249.86			

10. Projeto Planimétrico e Altimétrico – Eixo 02

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