



PROJETO EXECUTIVO DE RECUPERAÇÃO DE ESTRADA VICINAL NÃO PAVIMENTADA

Estrada: Cabaçu

Município: Campos de Júlio

Trecho: Entr. BR-364 (Campos de Júlio) – KM 21,44

Extensão aproximada: 21,44 km

VOLUME 3C – NOTA DE SERVIÇO DE TERRAPLENAGEM E CÁLCULO DE VOLUME

AGOSTO/2019



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ELABORAÇÃO: SM Serviços de Engenharia, CNPJ: 19.589.235/0001-99

RESPONSÁVEL TÉCNICO: Everaldo Tadel Bezerra de Castro, CREA: 1205190473

RESPONSÁVEL TÉCNICO: Fabrício Henrique Eufrazio Segura, CREA: 1212483375

CONTRATANTE: Prefeitura Municipal de Campos de Júlio, CNPJ: 01.614.516/0001-99

LICITAÇÃO: 016/2019 (Jornal Oficial Eletrônico dos Municípios do Estado do Estado de Mato Grosso-Ano XIV | N° 3.239)

VOLUME 3C – NOTA DE SERVIÇO DE TERRAPLENAGEM E CÁLCULO DE VOLUME

AGOSTO/2019


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabricio Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

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1.0 - APRESENTAÇÃO

1.1 - Apresentação

A empresa **SM- Serviços de Engenharia EIRELI-ME**, portadora do CNPJ sob o nº 19.589.235/0001-99, sediada na Avenida Doutor José Feliciano de Figueiredo, nº 164, Porto, Cuiabá-MT, apresenta ao **MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO** o **Volume 3C – Nota de Serviço e Cálculo de Volume** sobre o Projeto Executivo de Recuperação de Estrada Vicinal não Pavimentada, Trecho: Entr. BR-364 (Campos de Júlio) – KM 21,44; Extensão de 21,44km.

Este volume é destinado aos Engenheiros e Técnicos envolvidos na construção da obra, pois apresenta a nota de serviço de terraplenagem com cota de eixo (projeto), cota vermelha, distância do eixo aos bordos, declividade da pista, offset, etc. Também apresenta a planilha de cálculo de volume com: estacas, áreas, semidistância, volume de aterro e volume de corte.

1.2 – Volumes componentes do projeto executivo de engenharia

O projeto executivo é composto pelos volumes discriminados a seguir:

- **Volume 1 : Relatório do Projeto e Documentos para Concorrência;**
- **Volume 2 : Projeto de Execução;**
- **Volume 3 : Memória Justificativa;**
- **Volume 3A : Estudos Geotécnicos;**
- **Volume 3C: Cálculo dos Volumes e Notas de Serviços de Terraplenagem;**
- **Volume 4 : Orçamento da Obra.**

O conteúdo de cada volume é descrito a seguir:

Volume 1 - Relatório do Projeto

Este volume contém uma síntese dos serviços a executar e as especificações pertinentes aos serviços a serem executados. É apresentado no formato A4.

Volume 2 - Projeto de Execução

Este volume contém plantas, perfis e seções transversais e demais informações de interesse para a execução do projeto. É apresentado em formato A3.

Volume 2.1 –Seções de Terraplenagem

Apresenta em formato A3 os desenhos que representam as seções de terraplenagem de todo o trecho a ser locado.

Volume 3 – Memória Justificativa

Este volume reúne todas as metodologias que possibilitaram a definição das soluções a serem adotadas para os diversos itens de serviços. Apresenta, também, todos os estudos realizados que, de alguma forma, orientaram as tomadas de decisões com relação às soluções adotadas. É apresentado em formato A4.

Volume 3A – Estudos Geotécnicos

Apresenta em formato A4 os levantamentos realizados no campo, os cálculos efetuados no escritório e os ensaios de laboratório.

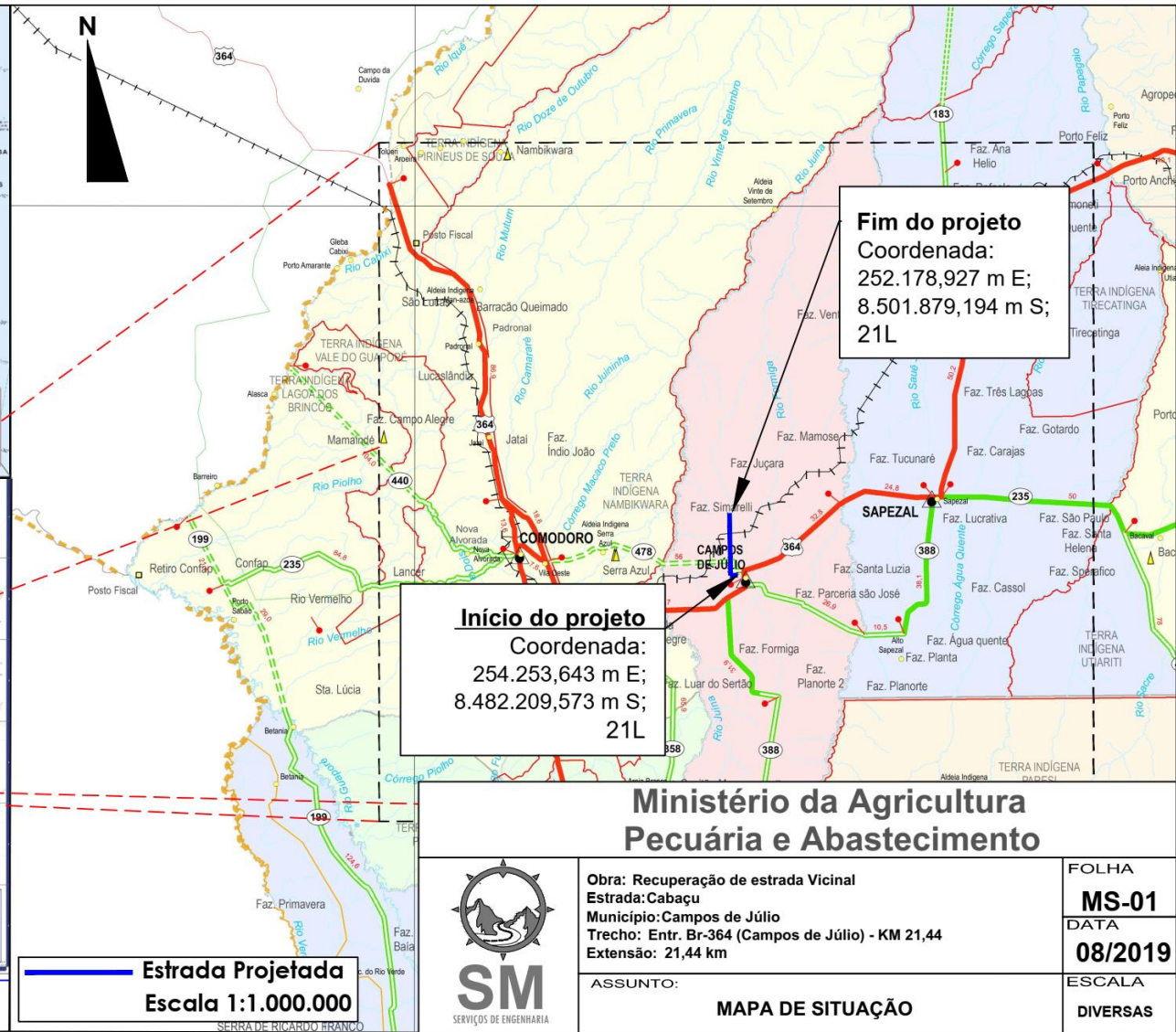
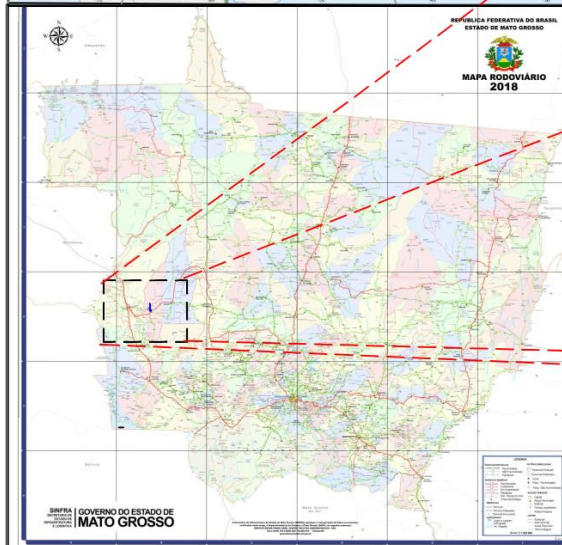
Volume 3C – Cálculo dos Volumes e Notas de Serviços de Terraplenagem

Apresenta em formato A4 as notas de serviço para execução do terrapleno e os volumes respectivos, bem como elementos adicionais à realocação do trecho.

Volume 4 – Orçamento e Plano de Execução de Obras

Este volume apresenta o demonstrativo de quantidades, distâncias médias de transporte, consumo de materiais, plano de execução da obra, resumo dos preços e o demonstrativo do orçamento. As composições de preços unitários serão apresentadas em outro volume como anexo. É apresentado em formato A4.

2.0 – MAPA DE SITUAÇÃO




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NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.600	631.868	-5.000	632.303	-3.00	0+0.000	632.453	632.453	0.000	5.000	632.303	-3.00	5.044	632.346
-5.600	631.868	-5.000	632.268	-3.00	1+0.000	632.418	631.780	0.638	5.000	632.268	-3.00	6.230	631.447
-6.181	631.445	-5.000	632.233	-3.00	2+0.000	632.383	631.767	0.616	5.000	632.233	-3.00	6.805	631.030
-6.207	631.393	-5.000	632.198	-3.00	3+0.000	632.348	631.579	0.769	5.000	632.198	-3.00	6.409	631.259
-6.032	631.475	-5.000	632.163	-3.00	4+0.000	632.313	631.661	0.653	5.000	632.163	-3.00	6.182	631.375
-5.954	631.492	-5.000	632.128	-3.00	5+0.000	632.278	631.638	0.641	5.000	632.128	-3.00	6.191	631.334
-5.919	631.481	-5.000	632.094	-3.00	6+0.000	632.244	631.609	0.635	5.000	632.094	-3.00	6.141	631.333
-5.762	631.551	-5.000	632.059	-3.00	7+0.000	632.209	631.686	0.523	5.000	632.059	-3.00	5.981	631.405
-5.682	631.569	-5.000	632.024	-3.00	8+0.000	632.174	631.805	0.369	5.000	632.024	-3.00	5.739	631.531
-5.446	631.692	-5.000	631.989	-3.00	9+0.000	632.139	631.902	0.238	5.000	631.989	-3.00	5.742	631.494
-5.315	631.744	-5.000	631.954	-3.00	10+0.000	632.104	631.765	0.339	5.000	631.954	-3.00	5.468	631.643
-5.083	631.864	-5.000	631.920	-3.00	11+0.000	632.070	631.969	0.101	5.000	631.920	-3.00	5.304	631.717
-5.197	632.082	-5.000	631.885	-3.00	12+0.000	632.035	632.198	-0.163	5.000	631.885	-3.00	5.021	631.871
-5.519	632.369	-5.000	631.850	-3.00	13+0.000	632.000	632.483	-0.483	5.000	631.850	-3.00	5.422	632.272
-5.037	631.945	-5.000	631.909	-3.00	14+0.000	632.059	632.185	-0.126	5.000	631.909	-3.00	5.143	631.814
-5.156	631.864	-5.000	631.968	-3.00	15+0.000	632.118	631.929	0.189	5.000	631.968	-3.00	5.330	631.747
-5.275	631.843	-5.000	632.026	-3.00	16+0.000	632.176	631.880	0.297	5.000	632.026	-3.00	5.445	631.730
-5.370	631.838	-5.000	632.085	-3.00	17+0.000	632.235	632.022	0.213	5.000	632.085	-3.00	5.450	631.785
-5.351	631.910	-5.000	632.144	-3.00	18+0.000	632.294	632.029	0.265	5.000	632.144	-3.00	5.393	631.882
-5.387	631.945	-5.000	632.203	-3.00	19+0.000	632.353	632.159	0.194	5.000	632.203	-3.00	5.235	632.047
-5.412	631.987	-5.000	632.262	-3.00	20+0.000	632.412	632.229	0.183	5.000	632.262	-3.00	5.381	632.008
-5.308	632.115	-5.000	632.321	-3.00	21+0.000	632.471	632.266	0.204	5.000	632.321	-3.00	5.457	632.016
-5.294	632.184	-5.000	632.379	-3.00	22+0.000	632.529	632.288	0.241	5.000	632.379	-3.00	5.345	632.149
-5.325	632.222	-5.000	632.438	-3.00	23+0.000	632.588	632.358	0.230	5.000	632.438	-3.00	5.406	632.168
-5.410	632.224	-5.000	632.497	-3.00	24+0.000	632.647	632.330	0.317	5.000	632.497	-3.00	5.420	632.217
-5.322	632.341	-5.000	632.556	-3.00	25+0.000	632.706	632.505	0.200	5.000	632.556	-3.00	5.425	632.272
-5.309	632.409	-5.000	632.615	-3.00	26+0.000	632.765	632.602	0.162	5.000	632.615	-3.00	5.373	632.366
-5.288	632.482	-5.000	632.674	-3.00	27+0.000	632.824	632.668	0.155	5.000	632.674	-3.00	5.366	632.429
-5.086	632.819	-5.000	632.732	-3.00	28+0.000	632.882	632.974	-0.091	5.000	632.732	-3.00	5.101	632.833
-5.481	633.273	-5.000	632.791	-3.00	29+0.000	632.941	633.395	-0.453	5.000	632.791	-3.00	5.367	633.158
-5.345	633.195	-5.000	632.850	-3.00	30+0.000	633.000	633.424	-0.424	5.000	632.850	-3.00	5.251	633.101
-5.134	632.852	-5.000	632.941	-3.00	31+0.000	633.091	632.996	0.095	5.000	632.941	-3.00	5.267	632.763
-5.365	632.788	-5.000	633.032	-3.00	32+0.000	633.182	632.937	0.245	5.000	633.032	-3.00	5.415	632.755
-5.428	632.838	-5.000	633.123	-3.00	33+0.000	633.273	632.959	0.313	5.000	633.123	-3.00	5.453	632.821
-5.464	632.904	-5.000	633.214	-3.00	34+0.000	633.364	633.012	0.351	5.000	633.214	-3.00	5.481	632.893
-5.540	632.945	-5.000	633.305	-3.00	35+0.000	633.455	633.055	0.400	5.000	633.305	-3.00	5.706	632.834
-5.605	632.992	-5.000	633.395	-3.00	36+0.000	633.545	632.956	0.589	5.000	633.395	-3.00	5.771	632.881
-5.642	633.058	-5.000	633.486	-3.00	37+0.000	633.636	633.091	0.545	5.000	633.486	-3.00	5.853	632.918
-5.682	633.123	-5.000	633.577	-3.00	38+0.000	633.727	633.138	0.589	5.000	633.577	-3.00	5.815	633.034
-5.732	633.180	-5.000	633.668	-3.00	39+0.000	633.818	633.228	0.590	5.000	633.668	-3.00	5.812	633.127
-5.784	633.237	-5.000	633.759	-3.00	40+0.000	633.909	633.317	0.592	5.000	633.759	-3.00	5.833	633.204
-5.828	633.298	-5.000	633.850	-3.00	41+0.000	634.000	633.396	0.604	5.000	633.850	-3.00	5.953	633.215
-5.875	633.357	-5.000	633.941	-3.00	42+0.000	634.091	633.470	0.621	5.000	633.941	-3.00	5.977	633.289
-5.789	633.506	-5.000	634.032	-3.00	43+0.000	634.182	633.586	0.595	5.000	634.032	-3.00	5.861	633.458
-5.735	633.633	-5.000	634.123	-3.00	44+0.000	634.273	633.726	0.547	5.000	634.123	-3.00	5.919	633.510
-5.554	633.844	-5.000	634.214	-3.00	45+0.000	634.364	634.019	0.345	5.000	634.214	-3.00	5.550	633.847
-5.174	634.189	-5.000	634.305	-3.00	46+0.000	634.455	634.309	0.146	5.000	634.305	-3.00	5.194	634.175
-5.386	634.138	-5.000	634.395	-3.00	47+0.000	634.545	634.314	0.232	5.000	634.395	-3.00	5.471	634.082
-6.047	633.789	-5.000	634.486	-3.00	48+0.000	634.636	634.027	0.609	5.000	634.486	-3.00	6.500	633.486
-6.198	633.778	-5.000	634.577	-3.00	49+0.000	634.727	634.065	0.662	5.000	634.577	-3.00	5.967	633.933
-6.118	633.923	-5.000	634.668	-3.00	50+0.000	634.818	634.161	0.657	5.000	634.668	-3.00	6.035	633.978
-5.972	634.111	-5.000	634.759	-3.00	51+0.000	634.909	634.163	0.746	5.000	634.759	-3.00	6.117	634.014
-5.997	634.186	-5.000	634.850	-3.00	52+0.000	635.000	634.214	0.786	5.000	634.850	-3.00	6.144	634.087
-6.014	634.265	-5.000	634.941	-3.00	53+0.000	635.091	634.301	0.790	5.000	634.941	-3.00	6.166	634.164
-6.043	634.336	-5.000	635.032	-3.00	54+0.000	635.182	634.430	0.752	5.000	635.032	-3.00	6.219	634.219
-6.116	634.379	-5.000	635.123	-3.00	55+0.000	635.273	634.486	0.787	5.000	635.123	-3.00	6.258	634.284
-6.055	634.510	-5.000	635.214	-3.00	56+0.000	635.364	634.619	0.745	5.000	635.214	-3.00	6.244	634.384
-6.099	634.572	-5.000	635.305	-3.00	57+0.000	635.455	634.704	0.750	5.000	635.305	-3.00	6.286	634.447
-6.151	634.628	-5.000	635.395	-3.00	58+0.000	635.545	634.740	0.805	5.000	635.395	-3.00	6.364	634.486
-6.156	634.637	-5.000	635.407	-3.00	58+2.642	635.557	634.740	0.818	5.000	635.407	-3.00	6.366	634.497
-6.090	634.759	-5.000	635.486	-3.00	59+0.000	635.636	634.769	0.867	5.000	635.486	-3.00	6.361	634.579


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NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.909	634.971	-5.000	635.577	-3.00	60+0.000	635.727	635.169	0.558	5.000	635.577	-3.00	6.009	634.905
-5.642	635.240	-5.000	635.668	-3.00	61+0.000	635.818	635.538	0.280	5.000	635.668	-3.00	5.528	635.316
-5.655	635.322	-5.000	635.759	-3.00	62+0.000	635.909	635.624	0.285	5.000	635.759	-3.00	5.581	635.372
-6.135	635.093	-5.000	635.850	-3.00	63+0.000	636.000	635.224	0.776	5.000	635.850	-3.00	6.323	634.968
-6.224	635.125	-5.000	635.941	-3.00	64+0.000	636.091	635.178	0.913	5.000	635.941	-3.00	6.459	634.968
-6.179	635.246	-5.000	636.032	-3.00	65+0.000	636.182	635.275	0.907	5.000	636.032	-3.00	6.373	635.116
-6.194	635.327	-5.000	636.123	-3.00	66+0.000	636.273	635.396	0.876	5.000	636.123	-3.00	6.303	635.254
-6.214	635.404	-5.000	636.214	-3.00	67+0.000	636.364	635.516	0.847	5.000	636.214	-3.00	6.224	635.397
-6.210	635.498	-5.000	636.305	-3.00	68+0.000	636.455	635.601	0.853	5.000	636.305	-3.00	6.187	635.513
-6.118	635.650	-5.000	636.395	-3.00	69+0.000	636.545	635.730	0.815	5.000	636.395	-3.00	6.210	635.589
-6.118	635.741	-5.000	636.486	-3.00	70+0.000	636.636	635.842	0.794	5.000	636.486	-3.00	6.216	635.676
-6.174	635.794	-5.000	636.577	-3.00	71+0.000	636.727	635.947	0.780	5.000	636.577	-3.00	6.188	635.785
-6.133	635.913	-5.000	636.668	-3.00	72+0.000	636.818	636.034	0.784	5.000	636.668	-3.00	6.187	635.877
-6.202	635.958	-5.000	636.759	-3.00	73+0.000	636.909	636.130	0.779	5.000	636.759	-3.00	6.149	635.993
-6.213	636.041	-5.000	636.850	-3.00	74+0.000	637.000	636.253	0.747	5.000	636.850	-3.00	6.096	636.119
-6.128	636.189	-5.000	636.941	-3.00	75+0.000	637.091	636.394	0.697	5.000	636.941	-3.00	6.047	636.243
-6.098	636.299	-5.000	637.032	-3.00	76+0.000	637.182	636.503	0.679	5.000	637.032	-3.00	6.094	636.303
-6.090	636.396	-5.000	637.123	-3.00	77+0.000	637.273	636.582	0.691	5.000	637.123	-3.00	6.099	636.390
-6.034	636.524	-5.000	637.214	-3.00	78+0.000	637.364	636.625	0.738	5.000	637.214	-3.00	6.179	636.428
-5.741	636.811	-5.000	637.305	-3.00	79+0.000	637.455	636.985	0.470	5.000	637.305	-3.00	5.910	636.698
-5.326	637.178	-5.000	637.395	-3.00	80+0.000	637.545	637.331	0.215	5.000	637.395	-3.00	5.471	637.082
-5.387	637.222	-5.000	637.480	-3.00	81+0.000	637.630	637.382	0.248	5.000	637.480	-3.00	5.569	637.101
-5.968	636.907	-5.000	637.552	-3.00	82+0.000	637.702	637.111	0.591	5.000	637.552	-3.00	5.923	636.937
-5.887	637.011	-5.000	637.602	-3.00	82+16.468	637.752	637.197	0.556	5.000	637.602	-3.00	5.917	636.991
-5.863	637.036	-5.000	637.611	-3.00	82+19.550	637.761	637.217	0.544	5.000	637.611	-3.00	5.952	636.976
-5.859	637.040	-5.000	637.612	-3.00	83+0.000	637.762	637.220	0.542	5.000	637.612	-3.00	5.958	636.973
-5.789	637.105	-5.000	637.631	-3.00	83+7.248	637.781	637.268	0.512	5.000	637.631	-3.00	5.977	636.979
-5.778	637.115	-5.000	637.633	-3.00	83+8.351	637.783	637.275	0.508	5.000	637.633	-3.00	5.968	636.988
-5.738	637.150	-5.000	637.643	-3.00	83+12.361	637.793	637.299	0.494	5.000	637.643	-3.00	5.936	637.019
-5.696	637.188	-5.000	637.652	-3.00	83+16.538	637.802	637.324	0.478	5.000	637.652	-3.00	5.902	637.050
-5.684	637.201	-5.000	637.656	-3.00	83+18.516	637.806	637.336	0.470	5.000	637.656	-3.00	5.882	637.068
-5.674	637.210	-5.000	637.659	-3.00	84+0.000	637.809	637.348	0.461	5.000	637.659	-3.00	5.846	637.095
-5.631	637.251	-5.000	637.672	-3.00	84+6.501	637.822	637.400	0.422	5.000	637.672	-3.00	5.736	637.182
-5.534	637.338	-5.000	637.694	-3.00	85+0.000	637.844	637.495	0.349	5.000	637.694	-3.00	5.693	637.232
-5.463	637.391	-5.000	637.699	-3.00	85+3.939	637.849	637.536	0.314	5.000	637.699	-3.00	5.697	637.235
-5.088	637.658	-5.000	637.716	-3.00	86+0.000	637.866	637.478	0.389	5.000	637.716	-3.00	5.454	637.414
-5.214	637.584	-5.000	637.726	-3.00	87+0.000	637.876	637.438	0.438	5.000	637.726	-3.00	5.031	637.706
-5.323	637.511	-5.000	637.727	-3.00	87+5.791	637.877	637.562	0.315	5.000	637.727	-3.00	5.007	637.722
-5.070	637.794	-5.000	637.724	-3.00	88+0.000	637.874	637.405	0.469	5.000	637.724	-3.00	5.240	637.564
-5.131	637.621	-5.000	637.709	-3.00	89+0.000	637.859	637.698	0.161	5.000	637.709	-3.00	5.368	637.464
-5.164	637.596	-5.000	637.706	-3.00	89+2.736	637.856	637.687	0.169	5.000	637.706	-3.00	5.362	637.464
-5.334	637.459	-5.000	637.681	-3.00	90+0.000	637.831	637.617	0.214	5.000	637.681	-3.00	5.405	637.411
-5.512	637.306	-5.000	637.647	-3.00	91+0.000	637.797	637.518	0.279	5.000	637.647	-3.00	5.574	637.265
-5.599	637.214	-5.000	637.613	-3.00	92+0.000	637.763	637.454	0.309	5.000	637.613	-3.00	5.685	637.157
-5.655	637.143	-5.000	637.580	-3.00	93+0.000	637.730	637.373	0.357	5.000	637.580	-3.00	5.561	637.206
-5.707	637.074	-5.000	637.546	-3.00	94+0.000	637.696	637.303	0.393	5.000	637.546	-3.00	5.595	637.149
-5.509	637.172	-5.000	637.512	-3.00	95+0.000	637.662	637.205	0.457	5.000	637.512	-3.00	5.675	637.062
-5.497	637.147	-5.000	637.478	-3.00	96+0.000	637.628	637.221	0.407	5.000	637.478	-3.00	5.608	637.073
-5.430	637.158	-5.000	637.444	-3.00	97+0.000	637.594	637.121	0.474	5.000	637.444	-3.00	5.656	637.007
-5.433	637.122	-5.000	637.411	-3.00	98+0.000	637.561	637.214	0.347	5.000	637.411	-3.00	5.631	636.990
-5.440	637.083	-5.000	637.377	-3.00	99+0.000	637.527	637.189	0.337	5.000	637.377	-3.00	5.659	636.938
-5.481	637.022	-5.000	637.343	-3.00	100+0.000	637.493	637.160	0.333	5.000	637.343	-3.00	5.721	636.862
-5.511	636.969	-5.000	637.309	-3.00	101+0.000	637.459	637.142	0.318	5.000	637.309	-3.00	5.762	636.801
-5.151	637.175	-5.000	637.275	-3.00	102+0.000	637.425	637.311	0.115	5.000	637.275	-3.00	5.354	637.039
-5.156	637.398	-5.000	637.242	-3.00	103+0.000	637.392	637.452	-0.061	5.000	637.242	-3.00	5.057	637.203
-5.193	637.079	-5.000	637.208	-3.00	104+0.000	637.358	637.147	0.211	5.000	637.208	-3.00	5.510	636.868
-5.364	636.931	-5.000	637.174	-3.00	105+0.000	637.324	636.923	0.401	5.000	637.174	-3.00	5.603	636.772
-5.207	637.002	-5.000	637.140	-3.00	106+0.000	637.290	636.909	0.381	5.000	637.140	-3.00	5.632	636.719
-5.331	636.885	-5.000	637.106	-3.00	107+0.000	637.256	636.893	0.363	5.000	637.106	-3.00	5.551	636.739
-5.568	636.694	-5.000	637.073	-3.00	108+0.000	637.223	636.841	0.382	5.000	637.073	-3.00	5.716	636.595
-5.655	636.602	-5.000	637.039	-3.00	109+0.000	637.189	636.639	0.550	5.000	637.039	-3.00	5.828	636.487


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NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.718	636.527	-5.000	637.005	-3.00	110+0.000	637.155	636.651	0.504	5.000	637.005	-3.00	6.057	636.300
-5.774	636.455	-5.000	636.971	-3.00	111+0.000	637.121	636.578	0.543	5.000	636.971	-3.00	6.134	636.215
-5.824	636.388	-5.000	636.937	-3.00	112+0.000	637.087	636.534	0.553	5.000	636.937	-3.00	6.081	636.217
-5.808	636.365	-5.000	636.904	-3.00	113+0.000	637.054	636.485	0.569	5.000	636.904	-3.00	5.732	636.416
-5.634	636.447	-5.000	636.870	-3.00	114+0.000	637.020	636.408	0.612	5.000	636.870	-3.00	5.909	636.263
-5.643	636.407	-5.000	636.836	-3.00	115+0.000	636.986	636.381	0.605	5.000	636.836	-3.00	6.116	636.092
-5.758	636.297	-5.000	636.802	-3.00	116+0.000	636.952	636.350	0.602	5.000	636.802	-3.00	6.092	636.074
-5.610	636.361	-5.000	636.768	-3.00	117+0.000	636.918	636.349	0.569	5.000	636.768	-3.00	6.027	636.084
-5.765	636.225	-5.000	636.735	-3.00	118+0.000	636.885	636.367	0.517	5.000	636.735	-3.00	5.946	636.104
-5.380	636.447	-5.000	636.701	-3.00	119+0.000	636.851	636.591	0.259	5.000	636.701	-3.00	5.723	636.219
-5.027	636.694	-5.000	636.667	-3.00	120+0.000	636.817	636.850	-0.033	5.000	636.667	-3.00	5.037	636.642
-5.025	636.658	-5.000	636.633	-3.00	121+0.000	636.783	636.839	-0.056	5.000	636.633	-3.00	5.025	636.658
-5.732	636.111	-5.000	636.599	-3.00	122+0.000	636.749	636.341	0.409	5.000	636.599	-3.00	5.898	636.001
-5.813	636.023	-5.000	636.565	-3.00	123+0.000	636.715	636.212	0.503	5.000	636.565	-3.00	5.925	635.949
-5.706	636.061	-5.000	636.532	-3.00	124+0.000	636.682	636.117	0.565	5.000	636.532	-3.00	5.904	635.929
-5.609	636.092	-5.000	636.498	-3.00	125+0.000	636.648	635.979	0.669	5.000	636.498	-3.00	6.003	635.829
-5.524	636.114	-5.000	636.464	-3.00	126+0.000	636.614	636.192	0.422	5.000	636.464	-3.00	6.044	635.768
-5.608	636.025	-5.000	636.430	-3.00	127+0.000	636.580	636.154	0.426	5.000	636.430	-3.00	5.981	635.777
-5.730	635.910	-5.000	636.396	-3.00	128+0.000	636.546	636.115	0.432	5.000	636.396	-3.00	5.993	635.735
-5.739	635.901	-5.000	636.393	-3.00	128+2.090	636.543	636.112	0.431	5.000	636.393	-3.00	5.984	635.737
-5.730	635.876	-5.000	636.363	-3.00	129+0.000	636.513	636.135	0.377	5.000	636.363	-3.00	5.846	635.799
-5.561	635.955	-5.000	636.329	-3.00	130+0.000	636.479	635.843	0.636	5.000	636.329	-3.00	5.787	635.804
-5.437	636.004	-5.000	636.295	-3.00	131+0.000	636.445	635.849	0.596	5.000	636.295	-3.00	5.843	635.733
-5.439	635.968	-5.000	636.261	-3.00	132+0.000	636.411	636.012	0.399	5.000	636.261	-3.00	5.856	635.691
-5.507	635.890	-5.000	636.227	-3.00	133+0.000	636.377	635.875	0.503	5.000	636.227	-3.00	5.757	635.723
-5.499	635.861	-5.000	636.194	-3.00	134+0.000	636.344	635.961	0.383	5.000	636.194	-3.00	5.719	635.714
-5.623	635.744	-5.000	636.160	-3.00	135+0.000	636.310	635.909	0.401	5.000	636.160	-3.00	5.766	635.649
-5.562	635.751	-5.000	636.126	-3.00	136+0.000	636.276	635.903	0.373	5.000	636.126	-3.00	5.622	635.712
-5.288	635.900	-5.000	636.092	-3.00	137+0.000	636.242	636.120	0.122	5.000	636.092	-3.00	5.148	635.993
-5.139	636.198	-5.000	636.058	-3.00	138+0.000	636.208	636.399	-0.191	5.000	636.058	-3.00	5.128	636.187
-5.386	636.411	-5.000	636.025	-3.00	139+0.000	636.175	636.486	-0.311	5.000	636.025	-3.00	5.234	636.258
-5.399	635.725	-5.000	635.991	-3.00	140+0.000	636.141	635.996	0.145	5.000	635.991	-3.00	5.611	635.583
-5.359	635.717	-5.000	635.957	-3.00	141+0.000	636.107	635.902	0.205	5.000	635.957	-3.00	5.337	635.733
-5.422	635.642	-5.000	635.923	-3.00	142+0.000	636.073	635.720	0.353	5.000	635.923	-3.00	5.491	635.596
-5.478	635.571	-5.000	635.889	-3.00	143+0.000	636.039	635.513	0.527	5.000	635.889	-3.00	5.652	635.454
-5.136	635.765	-5.000	635.856	-3.00	144+0.000	636.006	635.776	0.229	5.000	635.856	-3.00	5.406	635.585
-5.434	635.533	-5.000	635.822	-3.00	145+0.000	635.972	635.790	0.181	5.000	635.822	-3.00	5.235	635.665
-5.375	635.538	-5.000	635.788	-3.00	146+0.000	635.938	635.754	0.184	5.000	635.788	-3.00	5.210	635.648
-5.378	635.502	-5.000	635.754	-3.00	147+0.000	635.904	635.693	0.212	5.000	635.754	-3.00	5.269	635.575
-5.418	635.442	-5.000	635.720	-3.00	148+0.000	635.870	635.630	0.241	5.000	635.720	-3.00	5.361	635.480
-5.465	635.377	-5.000	635.687	-3.00	149+0.000	635.837	635.575	0.262	5.000	635.687	-3.00	5.351	635.453
-5.517	635.308	-5.000	635.653	-3.00	150+0.000	635.803	635.504	0.299	5.000	635.653	-3.00	5.313	635.444
-5.473	635.303	-5.000	635.619	-3.00	151+0.000	635.769	635.464	0.305	5.000	635.619	-3.00	5.320	635.406
-5.436	635.295	-5.000	635.585	-3.00	152+0.000	635.735	635.423	0.312	5.000	635.585	-3.00	5.336	635.361
-5.474	635.235	-5.000	635.551	-3.00	153+0.000	635.701	635.357	0.344	5.000	635.551	-3.00	5.187	635.426
-5.694	635.055	-5.000	635.518	-3.00	154+0.000	635.668	635.360	0.308	5.000	635.518	-3.00	5.307	635.313
-5.203	635.348	-5.000	635.484	-3.00	155+0.000	635.634	635.553	0.080	5.000	635.484	-3.00	5.502	635.149
-5.353	635.803	-5.000	635.450	-3.00	156+0.000	635.600	635.986	-0.386	5.000	635.450	-3.00	5.279	635.729
-5.015	635.422	-5.000	635.407	-3.00	157+0.000	635.557	635.597	-0.040	5.000	635.407	-3.00	5.058	635.465
-5.450	635.064	-5.000	635.364	-3.00	158+0.000	635.514	635.173	0.341	5.000	635.364	-3.00	5.405	635.094
-5.645	634.891	-5.000	635.321	-3.00	159+0.000	635.471	635.087	0.385	5.000	635.321	-3.00	5.442	635.027
-5.646	634.848	-5.000	635.279	-3.00	160+0.000	635.429	635.105	0.323	5.000	635.279	-3.00	5.385	635.022
-5.493	634.907	-5.000	635.236	-3.00	161+0.000	635.386	634.946	0.440	5.000	635.236	-3.00	5.576	634.851
-5.464	634.883	-5.000	635.193	-3.00	162+0.000	635.343	635.019	0.324	5.000	635.193	-3.00	5.669	634.747
-5.192	635.022	-5.000	635.150	-3.00	163+0.000	635.300	634.934	0.366	5.000	635.150	-3.00	5.524	634.801
-5.555	634.737	-5.000	635.107	-3.00	164+0.000	635.257	634.827	0.430	5.000	635.107	-3.00	5.915	634.497
-5.556	634.694	-5.000	635.064	-3.00	165+0.000	635.214	634.704	0.510	5.000	635.064	-3.00	6.258	634.226
-5.548	634.656	-5.000	635.021	-3.00	166+0.000	635.171	634.600	0.572	5.000	635.021	-3.00	6.236	634.198
-5.546	634.614	-5.000	634.979	-3.00	167+0.000	635.129	634.634	0.495	5.000	634.979	-3.00	6.018	634.300
-5.526	634.585	-5.000	634.936	-3.00	168+0.000	635.086	634.603	0.483	5.000	634.936	-3.00	5.675	634.486
-5.581	634.506	-5.000	634.893	-3.00	169+0.000	635.043	634.514	0.529	5.000	634.893	-3.00	5.443	634.598


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 Engenheiro Civil
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 Corresponsável
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 Engenheiro Civil
 CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.378	634.598	-5.000	634.850	-3.00	170+0.000	635.000	634.625	0.375	5.000	634.850	-3.00	5.488	634.525
-5.018	634.861	-5.000	634.844	-3.00	171+0.000	634.994	635.061	-0.067	5.000	634.844	-3.00	5.046	634.813
-5.272	635.109	-5.000	634.838	-3.00	172+0.000	634.988	635.256	-0.268	5.000	634.838	-3.00	5.153	634.990
-5.239	635.070	-5.000	634.831	-3.00	173+0.000	634.981	634.959	0.023	5.000	634.831	-3.00	5.115	634.755
-5.138	634.963	-5.000	634.825	-3.00	174+0.000	634.975	635.015	-0.040	5.000	634.825	-3.00	5.275	634.642
-5.119	634.740	-5.000	634.819	-3.00	175+0.000	634.969	634.823	0.146	5.000	634.819	-3.00	5.622	634.404
-5.296	634.619	-5.000	634.817	-3.00	175+8.200	634.967	634.807	0.160	5.000	634.817	-3.00	5.530	634.463
-5.529	634.460	-5.000	634.813	-3.00	176+0.000	634.963	634.782	0.181	5.000	634.813	-3.00	5.395	634.549
-5.351	634.573	-5.000	634.807	-3.00	177+0.000	634.957	634.690	0.266	5.000	634.807	-3.00	5.522	634.459
-5.181	634.680	-5.000	634.801	-3.00	178+0.000	634.951	634.627	0.323	5.000	634.801	-3.00	5.304	634.598
-5.226	634.644	-5.000	634.794	-3.00	179+0.000	634.944	634.813	0.131	5.000	634.794	-3.00	5.032	634.826
-5.479	634.469	-5.000	634.788	-3.00	180+0.000	634.938	634.656	0.282	5.000	634.788	-3.00	5.225	634.638
-6.085	634.058	-5.000	634.782	-3.00	181+0.000	634.932	634.614	0.318	5.000	634.782	-3.00	5.256	634.611
-6.103	634.041	-5.000	634.776	-3.00	182+0.000	634.926	634.593	0.333	5.000	634.776	-3.00	5.353	634.541
-5.467	634.458	-5.000	634.770	-3.00	183+0.000	634.920	634.538	0.382	5.000	634.770	-3.00	5.378	634.518
-5.598	634.365	-5.000	634.763	-3.00	184+0.000	634.913	634.511	0.402	5.000	634.763	-3.00	5.515	634.420
-5.910	634.151	-5.000	634.757	-3.00	185+0.000	634.907	634.571	0.336	5.000	634.757	-3.00	5.527	634.406
-6.030	634.065	-5.000	634.751	-3.00	186+0.000	634.901	634.632	0.269	5.000	634.751	-3.00	5.533	634.396
-5.543	634.383	-5.000	634.745	-3.00	187+0.000	634.895	634.578	0.316	5.000	634.745	-3.00	5.574	634.362
-5.585	634.349	-5.000	634.739	-3.00	188+0.000	634.889	634.494	0.394	5.000	634.739	-3.00	5.611	634.331
-6.278	633.881	-5.000	634.733	-3.00	189+0.000	634.883	634.484	0.398	5.000	634.733	-3.00	5.719	634.253
-5.969	634.080	-5.000	634.726	-3.00	190+0.000	634.876	634.492	0.384	5.000	634.726	-3.00	5.847	634.162
-6.202	633.863	-5.000	634.664	-3.00	191+0.000	634.814	634.363	0.450	5.000	634.664	-3.00	5.794	634.135
-6.017	633.923	-5.000	634.601	-3.00	192+0.000	634.751	634.245	0.506	5.000	634.601	-3.00	5.816	634.057
-5.875	633.955	-5.000	634.539	-3.00	193+0.000	634.689	634.220	0.468	5.000	634.539	-3.00	5.667	634.094
-5.747	633.978	-5.000	634.476	-3.00	194+0.000	634.626	634.200	0.426	5.000	634.476	-3.00	5.708	634.004
-5.694	633.951	-5.000	634.413	-3.00	195+0.000	634.563	634.154	0.410	5.000	634.413	-3.00	5.827	633.862
-6.715	633.207	-5.000	634.351	-3.00	196+0.000	634.501	634.098	0.403	5.000	634.351	-3.00	5.835	633.794
-6.481	633.301	-5.000	634.288	-3.00	197+0.000	634.438	633.539	0.899	5.000	634.288	-3.00	5.840	633.728
-5.819	633.680	-5.000	634.226	-3.00	198+0.000	634.376	633.809	0.566	5.000	634.226	-3.00	5.739	633.733
-6.271	633.316	-5.000	634.163	-3.00	199+0.000	634.313	633.871	0.442	5.000	634.163	-3.00	5.655	633.727
-5.520	633.754	-5.000	634.100	-3.00	200+0.000	634.250	633.906	0.345	5.000	634.100	-3.00	5.805	633.564
-5.589	633.645	-5.000	634.038	-3.00	201+0.000	634.188	633.871	0.317	5.000	634.038	-3.00	5.411	633.764
-5.572	633.594	-5.000	633.975	-3.00	202+0.000	634.125	633.835	0.290	5.000	633.975	-3.00	5.300	633.775
-5.944	633.283	-5.000	633.913	-3.00	203+0.000	634.063	633.775	0.288	5.000	633.913	-3.00	5.580	633.526
-6.568	632.805	-5.000	633.850	-3.00	204+0.000	634.000	633.677	0.323	5.000	633.850	-3.00	5.534	633.494
-6.511	632.761	-5.000	633.768	-3.00	205+0.000	633.918	633.578	0.340	5.000	633.768	-3.00	5.457	633.464
-6.309	632.814	-5.000	633.687	-3.00	206+0.000	633.837	633.501	0.336	5.000	633.687	-3.00	5.314	633.478
-5.712	633.131	-5.000	633.605	-3.00	207+0.000	633.755	633.481	0.275	5.000	633.605	-3.00	5.275	633.422
-5.367	633.279	-5.000	633.523	-3.00	208+0.000	633.673	633.402	0.271	5.000	633.523	-3.00	5.303	633.322
-5.359	633.202	-5.000	633.442	-3.00	209+0.000	633.592	633.293	0.298	5.000	633.442	-3.00	5.337	633.217
-5.374	633.162	-5.000	633.411	-3.00	209+7.533	633.561	633.252	0.309	5.000	633.411	-3.00	5.479	633.092
-5.374	633.161	-5.000	633.411	-3.00	209+7.540	633.561	633.252	0.309	5.000	633.411	-3.00	5.479	633.092
-5.523	633.011	-5.000	633.360	-3.00	210+0.000	633.510	633.106	0.404	5.000	633.360	-3.00	5.852	632.792
-5.781	632.758	-5.000	633.279	-3.00	211+0.000	633.429	632.829	0.599	5.000	633.279	-3.00	5.540	632.919
-5.652	632.762	-5.000	633.197	-3.00	212+0.000	633.347	632.722	0.625	5.000	633.197	-3.00	5.681	632.743
-5.731	632.628	-5.000	633.115	-3.00	213+0.000	633.265	632.662	0.603	5.000	633.115	-3.00	5.452	632.814
-5.595	632.637	-5.000	633.034	-3.00	214+0.000	633.184	632.595	0.589	5.000	633.034	-3.00	5.351	632.800
-5.712	632.477	-5.000	632.952	-3.00	215+0.000	633.102	632.544	0.558	5.000	632.952	-3.00	5.394	632.689
-5.337	632.646	-5.000	632.870	-3.00	216+0.000	633.020	632.490	0.530	5.000	632.870	-3.00	5.435	632.580
-5.646	632.358	-5.000	632.789	-3.00	217+0.000	632.939	632.407	0.532	5.000	632.789	-3.00	5.410	632.515
-5.673	632.259	-5.000	632.707	-3.00	218+0.000	632.857	632.377	0.480	5.000	632.707	-3.00	5.303	632.505
-5.322	632.411	-5.000	632.626	-3.00	219+0.000	632.776	632.527	0.249	5.000	632.626	-3.00	5.317	632.414
-5.315	632.859	-5.000	632.544	-3.00	220+0.000	632.694	632.914	-0.220	5.000	632.544	-3.00	5.257	632.801
-5.056	632.425	-5.000	632.462	-3.00	221+0.000	632.612	632.485	0.128	5.000	632.462	-3.00	5.136	632.371
-5.312	632.172	-5.000	632.381	-3.00	222+0.000	632.531	632.161	0.369	5.000	632.381	-3.00	5.319	632.168
-5.181	632.178	-5.000	632.299	-3.00	223+0.000	632.449	632.030	0.419	5.000	632.299	-3.00	5.375	632.049
-5.484	631.895	-5.000	632.217	-3.00	224+0.000	632.367	631.932	0.435	5.000	632.217	-3.00	5.423	631.936
-5.416	631.858	-5.000	632.136	-3.00	225+0.000	632.286	631.845	0.441	5.000	632.136	-3.00	5.563	631.761
-5.150	631.954	-5.000	632.054	-3.00	226+0.000	632.204	631.805	0.399	5.000	632.054	-3.00	5.338	631.829
-5.397	631.708	-5.000	631.972	-3.00	227+0.000	632.122	631.739	0.384	5.000	631.972	-3.00	5.531	631.619


Responsável Técnica
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CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.600	631.491	-5.000	631.891	-3.00	228+0.000	632.041	631.608	0.432	5.000	631.891	-3.00	5.309	631.685
-5.088	631.750	-5.000	631.809	-3.00	229+0.000	631.959	631.527	0.432	5.000	631.809	-3.00	5.586	631.418
-5.482	631.407	-5.000	631.728	-3.00	230+0.000	631.878	631.444	0.434	5.000	631.728	-3.00	5.163	631.619
-5.495	631.316	-5.000	631.646	-3.00	231+0.000	631.796	631.368	0.428	5.000	631.646	-3.00	5.564	631.270
-5.172	631.450	-5.000	631.564	-3.00	232+0.000	631.714	631.260	0.454	5.000	631.564	-3.00	5.458	631.259
-5.262	631.745	-5.000	631.483	-3.00	233+0.000	631.633	631.152	0.481	5.000	631.483	-3.00	5.585	631.093
-5.243	631.239	-5.000	631.401	-3.00	234+0.000	631.551	631.112	0.439	5.000	631.401	-3.00	5.399	631.135
-5.321	631.106	-5.000	631.319	-3.00	235+0.000	631.469	631.097	0.372	5.000	631.319	-3.00	5.194	631.190
-5.185	631.115	-5.000	631.238	-3.00	236+0.000	631.388	631.277	0.111	5.000	631.238	-3.00	5.185	631.115
-5.667	631.823	-5.000	631.156	-3.00	237+0.000	631.306	631.619	-0.313	5.000	631.156	-3.00	5.318	631.474
-5.415	631.490	-5.000	631.074	-3.00	238+0.000	631.224	631.243	-0.019	5.000	631.074	-3.00	5.028	631.056
-5.198	630.861	-5.000	630.993	-3.00	239+0.000	631.143	630.863	0.280	5.000	630.993	-3.00	5.160	630.886
-5.289	630.718	-5.000	630.911	-3.00	240+0.000	631.061	630.693	0.368	5.000	630.911	-3.00	5.328	630.693
-5.251	630.662	-5.000	630.830	-3.00	241+0.000	630.980	630.614	0.366	5.000	630.830	-3.00	5.096	630.926
-5.266	630.570	-5.000	630.748	-3.00	242+0.000	630.898	630.632	0.266	5.000	630.748	-3.00	5.183	630.626
-5.302	630.465	-5.000	630.666	-3.00	243+0.000	630.816	630.996	-0.180	5.000	630.666	-3.00	5.208	630.528
-5.244	630.859	-5.000	630.615	-3.00	243+12.532	630.765	630.355	0.410	5.000	630.615	-3.00	5.522	630.267
-5.244	630.859	-5.000	630.615	-3.00	243+12.542	630.765	630.355	0.410	5.000	630.615	-3.00	5.522	630.267
-5.065	630.650	-5.000	630.585	-3.00	244+0.000	630.735	630.331	0.404	5.000	630.585	-3.00	5.544	630.222
-5.475	630.187	-5.000	630.503	-3.00	245+0.000	630.653	630.248	0.405	5.000	630.503	-3.00	5.607	630.099
-5.490	630.095	-5.000	630.421	-3.00	246+0.000	630.571	630.135	0.437	5.000	630.421	-3.00	5.077	630.498
-5.533	629.984	-5.000	630.340	-3.00	247+0.000	630.490	630.032	0.458	5.000	630.340	-3.00	5.378	630.088
-5.562	629.883	-5.000	630.258	-3.00	248+0.000	630.408	629.961	0.447	5.000	630.258	-3.00	5.507	629.920
-5.139	630.315	-5.000	630.177	-3.00	249+0.000	630.327	629.931	0.395	5.000	630.177	-3.00	5.064	630.240
-5.518	629.749	-5.000	630.095	-3.00	250+0.000	630.245	629.792	0.453	5.000	630.095	-3.00	5.602	629.694
-5.425	629.730	-5.000	630.013	-3.00	251+0.000	630.163	629.649	0.514	5.000	630.013	-3.00	5.712	629.538
-5.585	629.542	-5.000	629.932	-3.00	252+0.000	630.082	629.507	0.575	5.000	629.932	-3.00	5.775	629.415
-5.590	629.456	-5.000	629.850	-3.00	253+0.000	630.000	629.364	0.636	5.000	629.850	-3.00	5.702	629.382
-5.486	629.378	-5.000	629.703	-3.00	254+0.000	629.853	629.221	0.632	5.000	629.703	-3.00	5.681	629.249
-5.436	629.265	-5.000	629.556	-3.00	255+0.000	629.706	629.070	0.636	5.000	629.556	-3.00	5.623	629.140
-5.081	629.489	-5.000	629.408	-3.00	256+0.000	629.558	628.959	0.599	5.000	629.408	-3.00	5.601	629.008
-5.141	629.167	-5.000	629.261	-3.00	257+0.000	629.411	628.853	0.559	5.000	629.261	-3.00	5.588	628.869
-5.528	628.762	-5.000	629.114	-3.00	258+0.000	629.264	628.752	0.512	5.000	629.114	-3.00	5.568	628.735
-5.552	628.599	-5.000	628.967	-3.00	259+0.000	629.117	628.670	0.447	5.000	628.967	-3.00	5.275	629.242
-5.196	628.689	-5.000	628.820	-3.00	260+0.000	628.970	628.808	0.161	5.000	628.820	-3.00	5.269	628.640
-5.409	629.081	-5.000	628.672	-3.00	261+0.000	628.822	629.039	-0.217	5.000	628.672	-3.00	5.281	628.954
-5.394	628.919	-5.000	628.525	-3.00	262+0.000	628.675	628.852	-0.177	5.000	628.525	-3.00	5.251	628.776
-5.021	628.399	-5.000	628.378	-3.00	263+0.000	628.528	628.342	0.185	5.000	628.378	-3.00	5.300	628.178
-5.221	628.452	-5.000	628.231	-3.00	264+0.000	628.381	628.067	0.314	5.000	628.231	-3.00	5.581	627.844
-5.531	627.730	-5.000	628.084	-3.00	265+0.000	628.234	627.786	0.448	5.000	628.084	-3.00	5.760	627.577
-5.589	627.544	-5.000	627.936	-3.00	266+0.000	628.086	627.648	0.438	5.000	627.936	-3.00	5.813	627.395
-5.599	627.390	-5.000	627.789	-3.00	267+0.000	627.939	627.926	0.013	5.000	627.789	-3.00	5.228	628.018
-5.590	627.249	-5.000	627.642	-3.00	268+0.000	627.792	627.464	0.328	5.000	627.642	-3.00	5.446	627.345
-5.069	627.449	-5.000	627.495	-3.00	269+0.000	627.645	627.170	0.475	5.000	627.495	-3.00	5.731	627.008
-5.587	626.956	-5.000	627.348	-3.00	270+0.000	627.498	627.053	0.444	5.000	627.348	-3.00	5.569	626.968
-5.185	627.077	-5.000	627.200	-3.00	271+0.000	627.350	626.927	0.423	5.000	627.200	-3.00	5.501	626.866
-5.624	626.637	-5.000	627.053	-3.00	272+0.000	627.203	626.772	0.431	5.000	627.053	-3.00	5.415	626.776
-5.650	626.473	-5.000	626.906	-3.00	273+0.000	627.056	626.611	0.445	5.000	626.906	-3.00	5.578	626.521
-5.478	626.440	-5.000	626.759	-3.00	274+0.000	626.909	626.443	0.466	5.000	626.759	-3.00	5.583	626.370
-5.142	626.517	-5.000	626.612	-3.00	275+0.000	626.762	626.271	0.490	5.000	626.612	-3.00	5.301	626.411
-5.739	625.972	-5.000	626.464	-3.00	276+0.000	626.614	626.107	0.507	5.000	626.464	-3.00	5.362	626.223
-5.726	625.833	-5.000	626.317	-3.00	277+0.000	626.467	625.936	0.531	5.000	626.317	-3.00	5.348	626.085
-5.810	625.630	-5.000	626.170	-3.00	278+0.000	626.320	625.749	0.571	5.000	626.170	-3.00	5.550	625.803
-5.582	625.635	-5.000	626.023	-3.00	279+0.000	626.173	625.744	0.428	5.000	626.023	-3.00	5.405	625.753
-5.085	625.819	-5.000	625.875	-3.00	280+0.000	626.025	625.804	0.221	5.000	625.875	-3.00	5.164	625.766
-5.265	625.994	-5.000	625.728	-3.00	281+0.000	625.878	626.014	-0.136	5.000	625.728	-3.00	5.285	626.013
-5.019	625.501	-5.000	625.514	-3.00	282+0.000	625.664	625.491	0.173	5.000	625.514	-3.00	5.126	625.429
-5.239	625.538	-5.000	625.299	-3.00	283+0.000	625.449	625.192	0.257	5.000	625.299	-3.00	5.459	624.993
-5.223	625.308	-5.000	625.084	-3.00	284+0.000	625.234	624.762	0.472	5.000	625.084	-3.00	5.572	624.703
-5.588	624.477	-5.000	624.870	-3.00	285+0.000	625.020	624.369	0.651	5.000	624.870	-3.00	5.678	624.418
-5.857	624.084	-5.000	624.655	-3.00	286+0.000	624.805	624.166	0.639	5.000	624.655	-3.00	5.748	624.156


Responsável técnica
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Engenheiro Civil
CREA-MT 1205190473


Corresponsável
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CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.606	624.036	-5.000	624.440	-3.00	287+0.000	624.590	623.988	0.602	5.000	624.440	-3.00	5.491	624.113
-5.143	624.130	-5.000	624.226	-3.00	288+0.000	624.376	623.821	0.554	5.000	624.226	-3.00	6.092	623.498
-5.480	623.691	-5.000	624.011	-3.00	289+0.000	624.161	623.563	0.598	5.000	624.011	-3.00	5.967	623.367
-5.143	623.701	-5.000	623.796	-3.00	290+0.000	623.946	623.382	0.564	5.000	623.796	-3.00	6.124	623.047
-5.288	623.389	-5.000	623.582	-3.00	291+0.000	623.732	623.111	0.620	5.000	623.582	-3.00	6.154	622.813
-5.638	622.942	-5.000	623.367	-3.00	292+0.000	623.517	622.860	0.657	5.000	623.367	-3.00	6.084	622.644
-5.753	622.651	-5.000	623.152	-3.00	293+0.000	623.302	622.656	0.647	5.000	623.152	-3.00	5.916	622.542
-5.803	622.402	-5.000	622.938	-3.00	294+0.000	623.088	622.464	0.624	5.000	622.938	-3.00	5.943	622.309
-5.185	622.600	-5.000	622.723	-3.00	295+0.000	622.873	622.295	0.578	5.000	622.723	-3.00	5.847	622.158
-5.521	622.161	-5.000	622.508	-3.00	296+0.000	622.658	622.104	0.555	5.000	622.508	-3.00	5.813	621.966
-5.147	622.196	-5.000	622.294	-3.00	297+0.000	622.444	621.943	0.501	5.000	622.294	-3.00	5.757	621.789
-5.469	621.766	-5.000	622.079	-3.00	298+0.000	622.229	621.785	0.444	5.000	622.079	-3.00	5.648	621.647
-5.243	621.702	-5.000	621.865	-3.00	299+0.000	622.015	621.703	0.312	5.000	621.865	-3.00	5.522	621.517
-5.144	621.794	-5.000	621.650	-3.00	300+0.000	621.800	621.663	0.137	5.000	621.650	-3.00	5.119	621.570
-5.616	622.052	-5.000	621.435	-3.00	301+0.000	621.585	621.858	-0.273	5.000	621.435	-3.00	5.379	621.815
-5.627	621.838	-5.000	621.211	-3.00	302+0.000	621.361	621.712	-0.351	5.000	621.211	-3.00	5.670	621.881
-5.163	621.150	-5.000	620.987	-3.00	303+0.000	621.137	621.167	-0.030	5.000	620.987	-3.00	5.071	621.058
-5.058	620.821	-5.000	620.763	-3.00	304+0.000	620.913	620.714	0.199	5.000	620.763	-3.00	5.460	620.456
-5.398	620.274	-5.000	620.539	-3.00	305+0.000	620.689	620.317	0.371	5.000	620.539	-3.00	5.493	620.210
-5.521	619.968	-5.000	620.315	-3.00	306+0.000	620.465	620.084	0.381	5.000	620.315	-3.00	5.456	620.011
-5.548	619.726	-5.000	620.091	-3.00	307+0.000	620.241	619.917	0.324	5.000	620.091	-3.00	5.408	619.819
-5.248	619.701	-5.000	619.867	-3.00	308+0.000	620.017	619.631	0.386	5.000	619.867	-3.00	5.499	619.534
-5.449	619.343	-5.000	619.643	-3.00	309+0.000	619.793	619.382	0.411	5.000	619.643	-3.00	5.526	619.292
-5.019	619.406	-5.000	619.419	-3.00	310+0.000	619.569	619.173	0.395	5.000	619.419	-3.00	5.064	619.483
-5.429	618.909	-5.000	619.194	-3.00	311+0.000	619.344	618.894	0.451	5.000	619.194	-3.00	5.747	618.697
-5.356	618.756	-5.000	618.994	-3.00	311+17.925	619.144	618.703	0.441	5.000	618.994	-3.00	5.126	618.910
-5.346	618.740	-5.000	618.970	-3.00	312+0.000	619.120	618.680	0.440	5.000	618.970	-3.00	5.166	618.860
-5.246	618.583	-5.000	618.746	-3.00	313+0.000	618.896	618.460	0.437	5.000	618.746	-3.00	5.410	618.473
-5.256	618.351	-5.000	618.522	-3.00	314+0.000	618.672	618.248	0.424	5.000	618.522	-3.00	5.429	618.236
-5.348	618.066	-5.000	618.298	-3.00	315+0.000	618.448	618.046	0.402	5.000	618.298	-3.00	5.323	618.083
-5.099	618.173	-5.000	618.074	-3.00	316+0.000	618.224	618.165	0.059	5.000	618.074	-3.00	5.212	618.286
-5.430	618.280	-5.000	617.850	-3.00	317+0.000	618.000	618.292	-0.292	5.000	617.850	-3.00	5.296	618.146
-5.112	617.675	-5.000	617.563	-3.00	318+0.000	617.713	617.663	0.050	5.000	617.563	-3.00	5.010	617.573
-5.577	616.891	-5.000	617.276	-3.00	319+0.000	617.426	616.828	0.598	5.000	617.276	-3.00	5.559	616.903
-5.742	616.494	-5.000	616.988	-3.00	320+0.000	617.138	616.493	0.646	5.000	616.988	-3.00	5.521	616.641
-5.908	616.096	-5.000	616.701	-3.00	321+0.000	616.851	616.157	0.694	5.000	616.701	-3.00	5.728	616.216
-5.558	616.042	-5.000	616.414	-3.00	322+0.000	616.564	615.869	0.695	5.000	616.414	-3.00	5.301	616.213
-5.785	615.604	-5.000	616.127	-3.00	323+0.000	616.277	615.627	0.650	5.000	616.127	-3.00	5.279	615.941
-5.448	615.541	-5.000	615.840	-3.00	324+0.000	615.990	615.269	0.721	5.000	615.840	-3.00	5.882	615.252
-5.614	615.143	-5.000	615.553	-3.00	325+0.000	615.703	614.998	0.705	5.000	615.553	-3.00	5.484	615.230
-5.919	614.653	-5.000	615.265	-3.00	326+0.000	615.415	614.719	0.696	5.000	615.265	-3.00	5.490	614.939
-5.834	614.422	-5.000	614.978	-3.00	327+0.000	615.128	614.368	0.761	5.000	614.978	-3.00	5.811	614.438
-5.302	614.489	-5.000	614.691	-3.00	328+0.000	614.841	614.262	0.579	5.000	614.691	-3.00	5.308	614.486
-5.412	614.129	-5.000	614.404	-3.00	329+0.000	614.554	614.103	0.450	5.000	614.404	-3.00	5.450	614.103
-5.442	613.822	-5.000	614.117	-3.00	330+0.000	614.267	613.921	0.345	5.000	614.117	-3.00	5.628	613.698
-5.007	613.825	-5.000	613.829	-3.00	331+0.000	613.979	613.881	0.098	5.000	613.829	-3.00	5.241	613.669
-5.453	613.995	-5.000	613.542	-3.00	332+0.000	613.692	613.964	-0.272	5.000	613.542	-3.00	5.255	613.797
-5.051	613.306	-5.000	613.255	-3.00	333+0.000	613.405	613.279	0.126	5.000	613.255	-3.00	5.076	613.331
-5.556	612.597	-5.000	612.968	-3.00	334+0.000	613.118	612.586	0.532	5.000	612.968	-3.00	5.605	612.564
-5.674	612.231	-5.000	612.681	-3.00	335+0.000	612.831	612.321	0.510	5.000	612.681	-3.00	5.651	612.246
-5.779	611.874	-5.000	612.393	-3.00	336+0.000	612.543	612.056	0.488	5.000	612.393	-3.00	5.693	611.932
-5.359	611.867	-5.000	612.106	-3.00	337+0.000	612.256	611.762	0.494	5.000	612.106	-3.00	5.703	611.638
-5.629	611.367	-5.000	611.786	-3.00	338+0.000	611.936	611.460	0.476	5.000	611.786	-3.00	5.869	611.207
-5.327	611.248	-5.000	611.467	-3.00	339+0.000	611.617	611.189	0.428	5.000	611.467	-3.00	5.782	610.946
-5.341	610.919	-5.000	611.147	-3.00	340+0.000	611.297	610.945	0.351	5.000	611.147	-3.00	5.441	610.853
-5.179	611.006	-5.000	610.827	-3.00	341+0.000	610.977	610.973	0.004	5.000	610.827	-3.00	5.090	610.917
-5.473	610.981	-5.000	610.507	-3.00	342+0.000	610.657	611.003	-0.345	5.000	610.507	-3.00	5.632	611.140
-5.073	610.260	-5.000	610.188	-3.00	343+0.000	610.338	610.381	-0.044	5.000	610.188	-3.00	5.027	610.169
-5.000	609.868	-5.000	609.868	-3.00	344+0.000	610.018	609.804	0.213	5.000	609.868	-3.00	5.660	609.427
-5.344	609.318	-5.000	609.548	-3.00	345+0.000	609.698	609.364	0.334	5.000	609.548	-3.00	5.718	609.070
-5.828	608.676	-5.000	609.228	-3.00	346+0.000	609.378	608.957	0.421	5.000	609.228	-3.00	5.770	608.715


Responsável Técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabricio Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.737	608.417	-5.000	608.908	-3.00	347+0.000	609.058	608.627	0.432	5.000	608.908	-3.00	5.814	608.365
-5.646	608.158	-5.000	608.589	-3.00	348+0.000	608.739	608.296	0.442	5.000	608.589	-3.00	5.837	608.031
-5.648	607.837	-5.000	608.269	-3.00	349+0.000	608.419	608.021	0.398	5.000	608.269	-3.00	5.685	607.812
-5.658	607.511	-5.000	607.949	-3.00	350+0.000	608.099	607.664	0.435	5.000	607.949	-3.00	5.206	607.812
-5.631	607.209	-5.000	607.629	-3.00	351+0.000	607.779	607.389	0.390	5.000	607.629	-3.00	5.796	607.098
-5.628	606.890	-5.000	607.309	-3.00	352+0.000	607.459	607.042	0.418	5.000	607.309	-3.00	5.656	606.872
-5.255	606.819	-5.000	606.990	-3.00	353+0.000	607.140	606.867	0.273	5.000	606.990	-3.00	5.547	606.625
-5.255	606.819	-5.000	606.670	-3.00	354+0.000	606.820	606.669	0.150	5.000	606.670	-3.00	5.098	606.605
-5.629	606.979	-5.000	606.350	-3.00	355+0.000	606.500	606.803	-0.303	5.000	606.350	-3.00	5.513	606.863
-5.222	606.213	-5.000	605.991	-3.00	356+0.000	606.141	606.175	-0.034	5.000	605.991	-3.00	5.136	606.126
-5.564	605.256	-5.000	605.631	-3.00	357+0.000	605.781	605.188	0.593	5.000	605.631	-3.00	5.723	605.149
-5.546	604.908	-5.000	605.272	-3.00	358+0.000	605.422	604.928	0.494	5.000	605.272	-3.00	5.678	604.820
-5.533	604.557	-5.000	604.912	-3.00	359+0.000	605.063	604.607	0.456	5.000	604.912	-3.00	5.727	604.428
-5.541	604.192	-5.000	604.553	-3.00	360+0.000	604.703	604.200	0.503	5.000	604.553	-3.00	5.787	604.029
-5.783	603.672	-5.000	604.194	-3.00	361+0.000	604.344	603.812	0.531	5.000	604.194	-3.00	6.003	603.525
-5.848	603.269	-5.000	603.834	-3.00	362+0.000	603.984	603.411	0.573	5.000	603.834	-3.00	5.754	603.332
-5.733	602.986	-5.000	603.475	-3.00	363+0.000	603.625	603.034	0.591	5.000	603.475	-3.00	5.241	603.314
-5.354	602.879	-5.000	603.116	-3.00	364+0.000	603.266	602.749	0.517	5.000	603.116	-3.00	5.194	602.986
-5.242	602.595	-5.000	602.756	-3.00	365+0.000	602.906	602.246	0.661	5.000	602.756	-3.00	5.801	602.222
-5.756	601.893	-5.000	602.397	-3.00	366+0.000	602.547	602.129	0.418	5.000	602.397	-3.00	5.670	601.950
-5.430	601.751	-5.000	602.037	-3.00	367+0.000	602.188	601.721	0.467	5.000	602.037	-3.00	5.755	601.534
-5.744	601.182	-5.000	601.678	-3.00	368+0.000	601.828	601.282	0.546	5.000	601.678	-3.00	5.762	601.170
-5.676	600.868	-5.000	601.319	-3.00	369+0.000	601.469	600.920	0.548	5.000	601.319	-3.00	5.742	600.824
-5.565	600.583	-5.000	600.959	-3.00	370+0.000	601.109	600.600	0.509	5.000	600.959	-3.00	5.334	600.737
-5.392	600.338	-5.000	600.600	-3.00	371+0.000	600.750	600.319	0.431	5.000	600.600	-3.00	5.719	600.121
-5.324	600.025	-5.000	600.241	-3.00	372+0.000	600.391	599.832	0.559	5.000	600.241	-3.00	5.766	599.730
-5.365	599.638	-5.000	599.881	-3.00	373+0.000	600.031	599.697	0.334	5.000	599.881	-3.00	5.730	599.395
-5.037	599.497	-5.000	599.522	-3.00	374+0.000	599.672	599.458	0.214	5.000	599.522	-3.00	5.262	599.347
-5.418	599.581	-5.000	599.162	-3.00	375+0.000	599.313	599.887	-0.575	5.000	599.162	-3.00	5.776	599.938
-5.345	599.148	-5.000	598.803	-3.00	376+0.000	598.953	599.155	-0.202	5.000	598.803	-3.00	5.167	598.970
-5.091	598.535	-5.000	598.444	-3.00	377+0.000	598.500	598.500	0.093	5.000	598.444	-3.00	5.112	598.369
-5.334	598.418	-5.000	598.084	-3.00	378+0.000	598.234	598.318	-0.084	5.000	598.084	-3.00	5.138	598.223
-5.156	597.621	-5.000	597.725	-3.00	379+0.000	597.875	597.459	0.416	5.000	597.725	-3.00	5.349	597.492
-5.971	596.718	-5.000	597.366	-3.00	380+0.000	597.516	597.011	0.505	5.000	597.366	-3.00	5.547	597.001
-6.123	596.258	-5.000	597.006	-3.00	381+0.000	597.156	596.188	0.968	5.000	597.006	-3.00	5.918	596.394
-5.210	596.507	-5.000	596.647	-3.00	382+0.000	596.797	595.786	1.011	5.000	596.647	-3.00	6.177	595.862
-6.677	595.170	-5.000	596.287	-3.00	383+0.000	596.438	595.444	0.993	5.000	596.288	-3.00	6.245	595.458
-7.065	594.581	-5.000	595.958	-3.00	384+0.000	596.108	594.975	1.132	5.000	595.958	-3.00	6.690	594.831
-7.255	594.183	-5.000	595.686	-3.00	385+0.000	595.836	594.299	1.537	5.000	595.686	-3.00	6.783	594.498
-6.574	594.425	-5.000	595.474	-3.00	386+0.000	595.624	594.259	1.365	5.000	595.474	-3.00	7.381	593.887
-6.246	594.489	-5.000	595.320	-3.00	387+0.000	595.470	594.268	1.202	5.000	595.320	-3.00	7.477	593.669
-5.925	594.609	-5.000	595.226	-3.00	388+0.000	595.376	594.561	0.815	5.000	595.226	-3.00	6.491	594.232
-5.847	594.625	-5.000	595.190	-3.00	389+0.000	595.340	594.643	0.696	5.000	595.190	-3.00	6.104	594.453
-5.800	594.656	-5.000	595.189	-3.00	389+2.248	595.339	594.718	0.621	5.000	595.189	-3.00	6.064	594.480
-5.049	595.180	-5.000	595.212	-3.00	390+0.000	595.362	595.023	0.339	5.000	595.212	-3.00	5.572	594.831
-5.463	594.985	-5.000	595.294	-3.00	391+0.000	595.444	595.177	0.267	5.000	595.294	-3.00	5.518	594.948
-5.452	595.104	-5.000	595.405	-3.00	392+0.000	595.555	595.577	-0.022	5.000	595.405	-3.00	5.247	595.652
-5.493	596.008	-5.000	595.516	-3.00	393+0.000	595.666	596.115	-0.449	5.000	595.516	-3.00	5.685	596.201
-5.179	595.806	-5.000	595.627	-3.00	394+0.000	595.777	595.994	-0.217	5.000	595.627	-3.00	5.014	595.641
-5.317	595.527	-5.000	595.738	-3.00	395+0.000	595.888	595.420	0.468	5.000	595.738	-3.00	5.469	595.425
-5.345	595.619	-5.000	595.849	-3.00	396+0.000	595.999	595.568	0.430	5.000	595.849	-3.00	5.522	595.501
-5.433	595.671	-5.000	595.960	-3.00	397+0.000	596.110	595.742	0.367	5.000	595.960	-3.00	5.455	595.657
-5.485	595.747	-5.000	596.071	-3.00	398+0.000	596.221	595.823	0.397	5.000	596.071	-3.00	5.566	595.694
-5.007	596.177	-5.000	596.182	-3.00	399+0.000	596.332	595.910	0.422	5.000	596.182	-3.00	5.656	595.744
-5.599	595.893	-5.000	596.293	-3.00	400+0.000	596.443	596.014	0.429	5.000	596.293	-3.00	5.727	595.808
-5.504	596.068	-5.000	596.404	-3.00	401+0.000	596.554	596.121	0.432	5.000	596.404	-3.00	5.759	595.898
-5.510	596.174	-5.000	596.515	-3.00	402+0.000	596.665	596.212	0.452	5.000	596.515	-3.00	5.310	596.308
-5.548	596.260	-5.000	596.626	-3.00	403+0.000	596.776	596.319	0.457	5.000	596.626	-3.00	5.171	596.512
-5.590	596.343	-5.000	596.737	-3.00	404+0.000	596.887	596.172	0.715	5.000	596.737	-3.00	5.798	596.205
-5.738	596.409	-5.000	596.901	-3.00	405+0.000	597.051	596.605	0.446	5.000	596.901	-3.00	5.636	596.477
-5.761	596.558	-5.000	597.065	-3.00	406+0.000	597.215	596.871	0.344	5.000	597.065	-3.00	5.696	596.601


Responsável Técnico
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Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabricio Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.075	597.303	-5.000	597.229	-3.00	407+0.000	597.379	597.526	-0.148	5.000	597.229	-3.00	5.067	597.296
-5.588	597.981	-5.000	597.393	-3.00	408+0.000	597.543	597.899	-0.357	5.000	597.393	-3.00	5.466	597.859
-5.148	597.705	-5.000	597.557	-3.00	409+0.000	597.707	597.819	-0.112	5.000	597.557	-3.00	5.031	597.587
-5.228	597.569	-5.000	597.721	-3.00	410+0.000	597.871	597.527	0.344	5.000	597.721	-3.00	5.355	597.484
-5.366	597.641	-5.000	597.885	-3.00	411+0.000	598.035	597.691	0.344	5.000	597.885	-3.00	5.279	597.699
-5.252	597.881	-5.000	598.049	-3.00	412+0.000	598.199	597.671	0.528	5.000	598.049	-3.00	5.546	597.685
-5.413	597.937	-5.000	598.213	-3.00	413+0.000	598.363	597.925	0.438	5.000	598.213	-3.00	5.567	597.835
-5.175	598.260	-5.000	598.377	-3.00	414+0.000	598.527	598.262	0.265	5.000	598.377	-3.00	5.550	598.010
-5.251	598.793	-5.000	598.541	-3.00	415+0.000	598.691	598.386	0.305	5.000	598.541	-3.00	5.541	598.180
-5.707	598.234	-5.000	598.705	-3.00	416+0.000	598.855	598.472	0.383	5.000	598.705	-3.00	5.535	598.348
-5.702	598.401	-5.000	598.869	-3.00	417+0.000	599.019	598.655	0.364	5.000	598.869	-3.00	5.539	598.510
-5.180	598.913	-5.000	599.033	-3.00	418+0.000	599.183	598.831	0.352	5.000	599.033	-3.00	5.115	598.956
-5.804	598.661	-5.000	599.197	-3.00	419+0.000	599.347	598.749	0.598	5.000	599.197	-3.00	5.609	598.791
-5.886	598.770	-5.000	599.361	-3.00	420+0.000	599.511	599.107	0.404	5.000	599.361	-3.00	5.503	599.026
-5.100	599.626	-5.000	599.525	-3.00	421+0.000	599.675	599.328	0.347	5.000	599.525	-3.00	5.484	599.203
-5.159	599.848	-5.000	599.689	-3.00	422+0.000	599.839	599.495	0.345	5.000	599.689	-3.00	5.544	599.327
-5.822	599.306	-5.000	599.853	-3.00	423+0.000	600.003	599.429	0.575	5.000	599.853	-3.00	5.567	599.475
-5.675	599.568	-5.000	600.017	-3.00	424+0.000	600.167	599.744	0.424	5.000	600.017	-3.00	5.565	599.640
-5.078	600.259	-5.000	600.181	-3.00	425+0.000	600.331	599.981	0.350	5.000	600.181	-3.00	5.094	600.119
-5.503	600.010	-5.000	600.345	-3.00	426+0.000	600.495	600.168	0.328	5.000	600.345	-3.00	5.448	600.047
-5.092	600.602	-5.000	600.509	-3.00	427+0.000	600.659	600.756	-0.097	5.000	600.509	-3.00	5.439	600.949
-5.461	601.135	-5.000	600.674	-3.00	428+0.000	600.824	601.097	-0.273	5.000	600.674	-3.00	5.230	600.904
-5.329	601.166	-5.000	600.838	-3.00	429+0.000	600.988	601.203	-0.215	5.000	600.838	-3.00	5.233	601.071
-5.155	601.156	-5.000	601.002	-3.00	430+0.000	601.152	600.967	0.184	5.000	601.002	-3.00	5.281	600.814
-5.371	600.918	-5.000	601.166	-3.00	431+0.000	601.316	600.933	0.382	5.000	601.166	-3.00	5.470	600.852
-5.093	601.268	-5.000	601.330	-3.00	432+0.000	601.480	601.125	0.355	5.000	601.330	-3.00	5.073	601.281
-5.310	601.287	-5.000	601.494	-3.00	433+0.000	601.644	601.193	0.451	5.000	601.494	-3.00	5.541	601.133
-5.597	601.260	-5.000	601.658	-3.00	434+0.000	601.808	601.344	0.463	5.000	601.658	-3.00	5.628	601.239
-5.718	601.343	-5.000	601.822	-3.00	435+0.000	601.972	601.515	0.457	5.000	601.822	-3.00	5.478	601.503
-5.389	601.726	-5.000	601.986	-3.00	436+0.000	602.136	601.635	0.500	5.000	601.986	-3.00	5.758	601.480
-6.084	601.427	-5.000	602.150	-3.00	437+0.000	602.300	601.756	0.543	5.000	602.150	-3.00	5.571	601.769
-5.392	602.053	-5.000	602.314	-3.00	438+0.000	602.464	601.890	0.574	5.000	602.314	-3.00	5.852	601.746
-5.347	602.170	-5.000	602.402	-3.00	439+0.000	602.552	602.044	0.508	5.000	602.402	-3.00	5.777	601.883
-5.699	602.023	-5.000	602.489	-3.00	440+0.000	602.639	602.194	0.445	5.000	602.489	-3.00	5.552	602.121
-5.368	602.332	-5.000	602.577	-3.00	441+0.000	602.727	602.328	0.399	5.000	602.577	-3.00	5.637	602.153
-5.868	602.086	-5.000	602.665	-3.00	442+0.000	602.815	602.397	0.417	5.000	602.665	-3.00	5.614	602.255
-5.847	602.188	-5.000	602.752	-3.00	443+0.000	602.902	602.472	0.430	5.000	602.752	-3.00	5.538	602.394
-5.831	602.286	-5.000	602.840	-3.00	444+0.000	602.990	602.572	0.418	5.000	602.840	-3.00	5.327	602.622
-5.782	602.406	-5.000	602.928	-3.00	445+0.000	603.078	602.636	0.442	5.000	602.928	-3.00	5.661	602.487
-5.740	602.522	-5.000	603.015	-3.00	446+0.000	603.165	602.711	0.454	5.000	603.015	-3.00	5.309	602.810
-5.078	603.181	-5.000	603.103	-3.00	447+0.000	603.253	603.158	0.095	5.000	603.103	-3.00	5.182	602.982
-5.128	603.318	-5.000	603.191	-3.00	448+0.000	603.341	603.501	-0.160	5.000	603.191	-3.00	5.058	603.248
-5.025	603.303	-5.000	603.278	-3.00	449+0.000	603.428	603.486	-0.058	5.000	603.278	-3.00	5.096	603.214
-5.174	603.250	-5.000	603.366	-3.00	450+0.000	603.516	603.409	0.107	5.000	603.366	-3.00	5.290	603.173
-5.135	603.364	-5.000	603.454	-3.00	451+0.000	603.604	603.295	0.309	5.000	603.454	-3.00	5.459	603.148
-5.541	603.181	-5.000	603.541	-3.00	452+0.000	603.691	603.341	0.351	5.000	603.541	-3.00	5.126	603.457
-5.588	603.237	-5.000	603.629	-3.00	453+0.000	603.779	603.475	0.304	5.000	603.629	-3.00	5.253	603.460
-5.570	603.337	-5.000	603.717	-3.00	454+0.000	603.867	603.602	0.265	5.000	603.717	-3.00	5.288	603.525
-5.476	603.487	-5.000	603.804	-3.00	455+0.000	603.954	603.720	0.234	5.000	603.804	-3.00	5.057	603.767
-5.362	603.651	-5.000	603.892	-3.00	456+0.000	604.042	603.810	0.232	5.000	603.892	-3.00	5.273	603.710
-5.152	603.878	-5.000	603.980	-3.00	457+0.000	604.130	603.883	0.247	5.000	603.980	-3.00	5.163	603.871
-5.250	603.901	-5.000	604.067	-3.00	458+0.000	604.217	603.936	0.282	5.000	604.067	-3.00	5.554	603.698
-5.226	604.005	-5.000	604.155	-3.00	459+0.000	604.305	603.979	0.326	5.000	604.155	-3.00	5.580	603.768
-5.220	604.096	-5.000	604.243	-3.00	460+0.000	604.393	604.068	0.325	5.000	604.243	-3.00	5.362	604.002
-5.358	604.092	-5.000	604.331	-3.00	461+0.000	604.481	604.226	0.254	5.000	604.331	-3.00	5.571	603.950
-5.481	604.098	-5.000	604.418	-3.00	462+0.000	604.568	604.406	0.162	5.000	604.418	-3.00	5.249	604.252
-5.624	604.090	-5.000	604.506	-3.00	463+0.000	604.656	604.367	0.289	5.000	604.506	-3.00	5.529	604.153
-5.753	604.091	-5.000	604.594	-3.00	464+0.000	604.744	604.328	0.416	5.000	604.594	-3.00	5.783	604.072
-5.875	604.060	-5.000	604.643	-3.00	465+0.000	604.793	604.289	0.504	5.000	604.643	-3.00	5.606	604.239
-5.922	604.077	-5.000	604.692	-3.00	466+0.000	604.842	604.281	0.561	5.000	604.692	-3.00	6.040	603.998
-5.886	604.150	-5.000	604.741	-3.00	467+0.000	604.891	604.346	0.545	5.000	604.741	-3.00	5.994	604.078


Responsável técnico
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabricio Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.377	604.538	-5.000	604.790	-3.00	468+0.000	604.940	604.397	0.543	5.000	604.790	-3.00	5.953	604.154
-5.901	604.238	-5.000	604.839	-3.00	469+0.000	604.989	604.450	0.539	5.000	604.839	-3.00	5.900	604.239
-5.574	604.505	-5.000	604.888	-3.00	470+0.000	605.038	604.561	0.477	5.000	604.888	-3.00	5.863	604.312
-5.794	604.408	-5.000	604.937	-3.00	471+0.000	605.087	604.562	0.525	5.000	604.937	-3.00	5.529	604.585
-5.676	604.535	-5.000	604.986	-3.00	472+0.000	605.136	604.635	0.501	5.000	604.986	-3.00	5.791	604.459
-5.629	604.616	-5.000	605.035	-3.00	473+0.000	605.185	604.685	0.500	5.000	605.035	-3.00	5.823	604.486
-5.508	604.746	-5.000	605.084	-3.00	474+0.000	605.234	604.697	0.537	5.000	605.084	-3.00	5.821	604.537
-5.617	604.722	-5.000	605.133	-3.00	475+0.000	605.283	604.801	0.483	5.000	605.133	-3.00	5.689	604.674
-5.940	604.556	-5.000	605.183	-3.00	476+0.000	605.333	604.813	0.519	5.000	605.183	-3.00	5.889	604.590
-5.926	604.614	-5.000	605.232	-3.00	477+0.000	605.382	604.858	0.524	5.000	605.232	-3.00	5.827	604.680
-5.925	604.664	-5.000	605.281	-3.00	478+0.000	605.431	604.901	0.530	5.000	605.281	-3.00	5.815	604.737
-5.937	604.705	-5.000	605.330	-3.00	479+0.000	605.480	604.943	0.537	5.000	605.330	-3.00	5.863	604.755
-5.746	604.882	-5.000	605.379	-3.00	480+0.000	605.529	605.009	0.519	5.000	605.379	-3.00	5.530	605.026
-5.447	605.130	-5.000	605.428	-3.00	481+0.000	605.578	605.059	0.519	5.000	605.428	-3.00	5.833	604.873
-5.522	605.129	-5.000	605.477	-3.00	482+0.000	605.627	605.181	0.446	5.000	605.477	-3.00	5.678	605.025
-5.599	605.127	-5.000	605.526	-3.00	483+0.000	605.676	605.392	0.284	5.000	605.526	-3.00	5.291	605.332
-5.446	606.021	-5.000	605.575	-3.00	484+0.000	605.725	605.840	-0.115	5.000	605.575	-3.00	5.112	605.688
-5.469	605.312	-5.000	605.624	-3.00	485+0.000	605.774	605.466	0.308	5.000	605.624	-3.00	5.687	605.166
-5.914	605.064	-5.000	605.673	-3.00	486+0.000	605.823	605.293	0.530	5.000	605.673	-3.00	5.981	605.019
-5.573	605.340	-5.000	605.723	-3.00	487+0.000	605.873	605.357	0.515	5.000	605.723	-3.00	5.947	605.091
-5.772	605.257	-5.000	605.772	-3.00	488+0.000	605.922	605.441	0.480	5.000	605.772	-3.00	5.883	605.183
-5.722	605.340	-5.000	605.821	-3.00	489+0.000	605.971	605.501	0.469	5.000	605.821	-3.00	5.844	605.258
-5.373	605.621	-5.000	605.870	-3.00	490+0.000	606.020	605.593	0.427	5.000	605.870	-3.00	5.834	605.314
-5.299	605.726	-5.000	605.919	-3.00	491+0.000	606.069	605.644	0.425	5.000	605.919	-3.00	5.842	605.358
-5.700	605.501	-5.000	605.968	-3.00	492+0.000	606.118	605.690	0.428	5.000	605.968	-3.00	5.795	605.438
-5.748	605.519	-5.000	606.017	-3.00	493+0.000	606.167	605.813	0.354	5.000	606.017	-3.00	5.755	605.514
-5.446	605.769	-5.000	606.066	-3.00	494+0.000	606.216	605.851	0.366	5.000	606.066	-3.00	5.556	605.695
-5.780	605.595	-5.000	606.115	-3.00	495+0.000	606.265	605.869	0.396	5.000	606.115	-3.00	5.768	605.603
-5.684	605.708	-5.000	606.164	-3.00	496+0.000	606.314	606.006	0.308	5.000	606.164	-3.00	5.812	605.623
-5.461	605.906	-5.000	606.213	-3.00	497+0.000	606.363	605.997	0.366	5.000	606.213	-3.00	5.815	605.670
-5.721	605.782	-5.000	606.262	-3.00	498+0.000	606.412	605.996	0.416	5.000	606.262	-3.00	5.779	605.743
-5.476	605.994	-5.000	606.312	-3.00	499+0.000	606.462	606.046	0.415	5.000	606.312	-3.00	5.765	605.802
-5.222	606.212	-5.000	606.361	-3.00	500+0.000	606.511	606.133	0.378	5.000	606.361	-3.00	5.623	605.945
-5.192	606.281	-5.000	606.410	-3.00	501+0.000	606.560	606.254	0.305	5.000	606.410	-3.00	5.812	605.868
-5.662	606.017	-5.000	606.459	-3.00	502+0.000	606.609	606.286	0.323	5.000	606.459	-3.00	5.793	605.930
-5.682	606.053	-5.000	606.508	-3.00	503+0.000	606.658	606.310	0.347	5.000	606.508	-3.00	5.775	605.991
-5.651	606.123	-5.000	606.557	-3.00	504+0.000	606.707	606.352	0.355	5.000	606.557	-3.00	5.606	606.153
-5.518	606.261	-5.000	606.606	-3.00	505+0.000	606.756	606.437	0.319	5.000	606.606	-3.00	5.560	606.232
-5.126	606.571	-5.000	606.655	-3.00	506+0.000	606.805	606.561	0.244	5.000	606.655	-3.00	5.495	606.325
-5.000	606.704	-5.000	606.704	-3.00	507+0.000	606.854	606.825	0.029	5.000	606.704	-3.00	5.311	606.497
-5.386	607.139	-5.000	606.753	-3.00	508+0.000	606.903	607.250	-0.347	5.000	606.753	-3.00	5.170	606.923
-5.075	606.959	-5.000	606.884	-3.00	509+0.000	607.034	607.160	-0.126	5.000	606.884	-3.00	5.036	606.860
-5.240	606.855	-5.000	607.015	-3.00	510+0.000	607.165	606.973	0.193	5.000	607.015	-3.00	5.527	606.664
-5.036	607.122	-5.000	607.146	-3.00	511+0.000	607.296	606.961	0.335	5.000	607.146	-3.00	5.634	606.723
-5.257	607.106	-5.000	607.277	-3.00	512+0.000	607.427	607.088	0.339	5.000	607.277	-3.00	5.505	606.940
-5.551	607.041	-5.000	607.408	-3.00	513+0.000	607.558	607.202	0.356	5.000	607.408	-3.00	5.582	607.020
-5.529	607.186	-5.000	607.539	-3.00	514+0.000	607.689	607.429	0.260	5.000	607.539	-3.00	5.594	607.143
-5.000	607.670	-5.000	607.670	-3.00	515+0.000	607.820	607.592	0.228	5.000	607.670	-3.00	5.041	607.643
-5.074	607.752	-5.000	607.801	-3.00	516+0.000	607.951	607.657	0.294	5.000	607.801	-3.00	5.526	607.451
-5.356	607.695	-5.000	607.932	-3.00	517+0.000	608.082	607.740	0.342	5.000	607.932	-3.00	5.640	607.505
-5.710	607.589	-5.000	608.063	-3.00	518+0.000	608.213	607.818	0.395	5.000	608.063	-3.00	5.654	607.627
-5.783	607.672	-5.000	608.194	-3.00	519+0.000	608.344	607.971	0.373	5.000	608.194	-3.00	5.659	607.755
-5.133	608.236	-5.000	608.325	-3.00	520+0.000	608.475	608.108	0.367	5.000	608.325	-3.00	5.663	607.883
-5.166	608.345	-5.000	608.456	-3.00	521+0.000	608.606	608.241	0.365	5.000	608.456	-3.00	5.657	608.018
-5.823	608.038	-5.000	608.587	-3.00	522+0.000	608.737	608.332	0.405	5.000	608.587	-3.00	5.491	608.259
-5.899	608.118	-5.000	608.718	-3.00	523+0.000	608.868	608.416	0.452	5.000	608.718	-3.00	5.713	608.242
-5.876	608.265	-5.000	608.849	-3.00	524+0.000	608.999	608.552	0.446	5.000	608.849	-3.00	5.710	608.375
-5.225	608.829	-5.000	608.980	-3.00	525+0.000	609.130	608.758	0.372	5.000	608.980	-3.00	5.609	608.573
-5.609	608.705	-5.000	609.110	-3.00	526+0.000	609.260	609.146	0.115	5.000	609.110	-3.00	5.009	609.120
-5.033	609.242	-5.000	609.264	-3.00	527+0.000	609.414	609.576	-0.162	5.000	609.264	-3.00	5.027	609.291
-5.342	609.759	-5.000	609.417	-3.00	528+0.000	609.567	609.832	-0.264	5.000	609.417	-3.00	5.122	609.540


 Responsável Técnico
 Engenheiro Everaldo Tadeu Bezerra de Castro
 Engenheiro Civil
 CREA-MT 1205190473


 Responsável
 Fabricio Henrique Eufrazio Segura
 Engenheiro Civil
 CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.047	609.539	-5.000	609.571	-3.00	529+0.000	609.721	609.709	0.012	5.000	609.571	-3.00	5.136	609.480
-5.320	609.511	-5.000	609.724	-3.00	530+0.000	609.874	609.732	0.142	5.000	609.724	-3.00	5.117	609.646
-5.583	609.489	-5.000	609.877	-3.00	531+0.000	610.027	609.743	0.284	5.000	609.877	-3.00	5.794	609.348
-5.663	609.589	-5.000	610.031	-3.00	532+0.000	610.181	609.853	0.327	5.000	610.031	-3.00	5.353	609.795
-5.745	609.688	-5.000	610.184	-3.00	533+0.000	610.334	609.959	0.376	5.000	610.184	-3.00	5.828	609.632
-5.797	609.806	-5.000	610.338	-3.00	534+0.000	610.488	610.086	0.401	5.000	610.338	-3.00	5.816	609.794
-5.231	610.337	-5.000	610.491	-3.00	535+0.000	610.641	610.216	0.425	5.000	610.491	-3.00	5.808	609.952
-5.327	610.426	-5.000	610.644	-3.00	536+0.000	610.794	610.388	0.406	5.000	610.644	-3.00	5.380	610.391
-5.668	610.352	-5.000	610.798	-3.00	537+0.000	610.948	610.562	0.386	5.000	610.798	-3.00	5.793	610.269
-5.196	610.820	-5.000	610.951	-3.00	538+0.000	611.101	610.726	0.375	5.000	610.951	-3.00	5.724	610.469
-5.713	610.629	-5.000	611.104	-3.00	539+0.000	611.254	610.846	0.408	5.000	611.104	-3.00	5.692	610.643
-5.692	610.797	-5.000	611.258	-3.00	540+0.000	611.408	610.944	0.464	5.000	611.258	-3.00	5.592	610.863
-5.182	611.290	-5.000	611.411	-3.00	541+0.000	611.561	611.231	0.330	5.000	611.411	-3.00	5.637	610.987
-5.420	611.285	-5.000	611.565	-3.00	542+0.000	611.715	611.560	0.155	5.000	611.565	-3.00	5.393	611.302
-5.064	611.782	-5.000	611.718	-3.00	543+0.000	611.868	611.814	0.054	5.000	611.718	-3.00	5.115	611.641
-5.317	611.587	-5.000	611.798	-3.00	544+0.000	611.948	611.687	0.261	5.000	611.798	-3.00	5.549	611.432
-5.714	611.403	-5.000	611.879	-3.00	545+0.000	612.029	611.584	0.445	5.000	611.879	-3.00	5.542	611.518
-5.362	611.718	-5.000	611.959	-3.00	546+0.000	612.109	611.656	0.454	5.000	611.959	-3.00	5.742	611.465
-5.705	611.570	-5.000	612.040	-3.00	547+0.000	612.190	611.729	0.461	5.000	612.040	-3.00	5.381	611.786
-5.710	611.647	-5.000	612.120	-3.00	548+0.000	612.270	611.800	0.471	5.000	612.120	-3.00	5.427	611.836
-5.284	612.012	-5.000	612.201	-3.00	549+0.000	612.351	611.929	0.422	5.000	612.201	-3.00	5.705	611.731
-5.668	611.836	-5.000	612.281	-3.00	550+0.000	612.431	612.013	0.419	5.000	612.281	-3.00	5.664	611.839
-5.696	611.898	-5.000	612.362	-3.00	551+0.000	612.512	612.105	0.406	5.000	612.362	-3.00	5.631	611.941
-5.705	611.972	-5.000	612.442	-3.00	552+0.000	612.592	612.189	0.404	5.000	612.442	-3.00	5.596	612.045
-5.685	612.067	-5.000	612.523	-3.00	553+0.000	612.673	612.274	0.399	5.000	612.523	-3.00	5.556	612.152
-5.679	612.151	-5.000	612.603	-3.00	554+0.000	612.753	612.381	0.372	5.000	612.603	-3.00	5.192	612.476
-5.683	612.229	-5.000	612.684	-3.00	555+0.000	612.834	612.489	0.345	5.000	612.684	-3.00	5.196	612.553
-5.640	612.338	-5.000	612.764	-3.00	556+0.000	612.914	612.536	0.378	5.000	612.764	-3.00	5.584	612.375
-5.570	612.465	-5.000	612.845	-3.00	557+0.000	612.995	612.583	0.412	5.000	612.845	-3.00	5.595	612.448
-5.587	612.534	-5.000	612.925	-3.00	558+0.000	613.075	612.691	0.384	5.000	612.925	-3.00	5.181	612.805
-5.610	612.600	-5.000	613.006	-3.00	559+0.000	613.156	612.799	0.357	5.000	613.006	-3.00	5.555	612.636
-5.192	612.958	-5.000	613.086	-3.00	560+0.000	613.236	612.880	0.357	5.000	613.086	-3.00	5.583	612.698
-5.667	612.723	-5.000	613.167	-3.00	561+0.000	613.317	612.967	0.350	5.000	613.167	-3.00	5.540	612.807
-5.484	612.925	-5.000	613.247	-3.00	562+0.000	613.397	613.124	0.274	5.000	613.247	-3.00	5.314	613.038
-5.213	613.186	-5.000	613.328	-3.00	563+0.000	613.478	613.372	0.106	5.000	613.328	-3.00	5.169	613.215
-5.126	613.527	-5.000	613.402	-3.00	564+0.000	613.552	613.744	-0.193	5.000	613.402	-3.00	5.163	613.565
-5.236	613.304	-5.000	613.461	-3.00	565+0.000	613.611	613.601	0.010	5.000	613.461	-3.00	5.291	613.267
-5.565	613.130	-5.000	613.507	-3.00	566+0.000	613.657	613.474	0.183	5.000	613.507	-3.00	5.742	613.012
-5.395	613.275	-5.000	613.539	-3.00	567+0.000	613.689	613.408	0.280	5.000	613.539	-3.00	5.735	613.049
-5.816	613.013	-5.000	613.557	-3.00	568+0.000	613.707	613.324	0.383	5.000	613.557	-3.00	5.667	613.112
-5.785	613.037	-5.000	613.561	-3.00	568+15.756	613.711	613.202	0.509	5.000	613.561	-3.00	5.638	613.135
-5.775	613.044	-5.000	613.561	-3.00	569+0.000	613.711	613.169	0.541	5.000	613.561	-3.00	5.628	613.142
-5.393	613.289	-5.000	613.551	-3.00	570+0.000	613.701	613.350	0.351	5.000	613.551	-3.00	5.520	613.204
-5.295	613.330	-5.000	613.527	-3.00	571+0.000	613.677	613.374	0.303	5.000	613.527	-3.00	5.531	613.173
-5.554	613.127	-5.000	613.496	-3.00	572+0.000	613.646	613.336	0.311	5.000	613.496	-3.00	5.494	613.167
-5.523	613.117	-5.000	613.465	-3.00	573+0.000	613.615	613.341	0.275	5.000	613.465	-3.00	5.454	613.163
-5.568	613.056	-5.000	613.435	-3.00	574+0.000	613.585	613.365	0.219	5.000	613.435	-3.00	5.327	613.217
-5.472	613.089	-5.000	613.404	-3.00	575+0.000	613.554	613.365	0.188	5.000	613.404	-3.00	5.257	613.233
-5.691	612.913	-5.000	613.373	-3.00	576+0.000	613.523	613.324	0.199	5.000	613.373	-3.00	5.212	613.232
-5.383	613.087	-5.000	613.342	-3.00	577+0.000	613.492	613.321	0.171	5.000	613.342	-3.00	5.172	613.228
-5.430	613.025	-5.000	613.312	-3.00	578+0.000	613.462	613.272	0.190	5.000	613.312	-3.00	5.200	613.178
-5.439	612.988	-5.000	613.281	-3.00	579+0.000	613.431	613.228	0.203	5.000	613.281	-3.00	5.278	613.096
-5.049	613.217	-5.000	613.250	-3.00	580+0.000	613.400	613.186	0.214	5.000	613.250	-3.00	5.320	613.037
-5.425	612.936	-5.000	613.219	-3.00	581+0.000	613.369	613.151	0.218	5.000	613.219	-3.00	5.372	612.971
-5.372	612.940	-5.000	613.188	-3.00	582+0.000	613.338	613.082	0.256	5.000	613.188	-3.00	5.413	612.913
-5.468	612.846	-5.000	613.158	-3.00	583+0.000	613.308	613.057	0.250	5.000	613.158	-3.00	5.454	612.855
-5.353	612.892	-5.000	613.127	-3.00	584+0.000	613.277	612.960	0.317	5.000	613.127	-3.00	5.500	612.793
-5.522	612.748	-5.000	613.096	-3.00	585+0.000	613.246	612.983	0.263	5.000	613.096	-3.00	5.535	612.739
-5.275	612.882	-5.000	613.065	-3.00	586+0.000	613.215	612.913	0.302	5.000	613.065	-3.00	5.496	612.735
-5.560	612.661	-5.000	613.035	-3.00	587+0.000	613.185	612.822	0.363	5.000	613.035	-3.00	5.532	612.680
-5.406	612.733	-5.000	613.004	-3.00	588+0.000	613.154	612.758	0.395	5.000	613.004	-3.00	5.654	612.568


Responsável Técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabrício Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.596	612.576	-5.000	612.973	-3.00	589+0.000	613.123	612.647	0.476	5.000	612.973	-3.00	5.786	612.449
-5.619	612.523	-5.000	612.935	-3.00	590+0.000	613.085	612.562	0.523	5.000	612.935	-3.00	5.835	612.379
-5.658	612.445	-5.000	612.883	-3.00	591+0.000	613.033	612.451	0.582	5.000	612.883	-3.00	5.872	612.302
-5.710	612.344	-5.000	612.817	-3.00	592+0.000	612.967	612.381	0.587	5.000	612.817	-3.00	5.945	612.187
-5.258	612.566	-5.000	612.738	-3.00	593+0.000	612.888	612.805	0.082	5.000	612.738	-3.00	5.046	612.707
-5.246	612.479	-5.000	612.643	-3.00	594+0.000	612.793	612.617	0.176	5.000	612.643	-3.00	5.224	612.494
-5.863	611.960	-5.000	612.535	-3.00	595+0.000	612.685	612.122	0.563	5.000	612.535	-3.00	5.608	612.130
-5.561	612.039	-5.000	612.413	-3.00	596+0.000	612.563	611.754	0.809	5.000	612.413	-3.00	5.917	611.802
-5.503	611.941	-5.000	612.277	-3.00	597+0.000	612.427	611.829	0.598	5.000	612.277	-3.00	5.899	611.678
-5.552	611.766	-5.000	612.134	-3.00	598+0.000	612.284	611.720	0.564	5.000	612.134	-3.00	5.828	611.582
-5.575	611.607	-5.000	611.990	-3.00	599+0.000	612.140	611.596	0.545	5.000	611.990	-3.00	5.751	611.490
-5.563	611.472	-5.000	611.847	-3.00	600+0.000	611.997	611.514	0.483	5.000	611.847	-3.00	5.568	611.468
-5.592	611.309	-5.000	611.704	-3.00	601+0.000	611.854	611.428	0.426	5.000	611.704	-3.00	5.653	611.269
-5.622	611.146	-5.000	611.561	-3.00	602+0.000	611.711	611.327	0.383	5.000	611.561	-3.00	5.614	611.151
-5.403	611.149	-5.000	611.417	-3.00	603+0.000	611.567	611.182	0.386	5.000	611.417	-3.00	5.628	610.998
-5.628	610.855	-5.000	611.274	-3.00	604+0.000	611.424	611.034	0.390	5.000	611.274	-3.00	5.590	610.881
-5.335	610.908	-5.000	611.131	-3.00	605+0.000	611.281	610.943	0.338	5.000	611.131	-3.00	5.379	610.878
-5.590	610.594	-5.000	610.988	-3.00	606+0.000	611.138	610.854	0.284	5.000	610.988	-3.00	5.599	610.588
-5.322	610.630	-5.000	610.844	-3.00	607+0.000	610.994	610.689	0.305	5.000	610.844	-3.00	5.556	610.474
-5.546	610.337	-5.000	610.701	-3.00	608+0.000	610.851	610.512	0.339	5.000	610.701	-3.00	5.553	610.332
-5.371	610.310	-5.000	610.558	-3.00	609+0.000	610.708	610.328	0.380	5.000	610.558	-3.00	5.651	610.124
-5.256	610.244	-5.000	610.415	-3.00	610+0.000	610.565	610.426	0.138	5.000	610.415	-3.00	5.136	610.324
-5.119	610.390	-5.000	610.271	-3.00	611+0.000	610.421	610.543	-0.122	5.000	610.271	-3.00	5.200	610.471
-5.169	610.015	-5.000	610.128	-3.00	612+0.000	610.278	610.034	0.244	5.000	610.128	-3.00	5.171	610.014
-5.776	609.423	-5.000	609.940	-3.00	613+0.000	610.090	609.591	0.499	5.000	609.940	-3.00	5.864	609.365
-5.399	609.487	-5.000	609.753	-3.00	614+0.000	609.903	609.373	0.529	5.000	609.753	-3.00	5.824	609.203
-5.867	608.987	-5.000	609.565	-3.00	615+0.000	609.715	609.174	0.541	5.000	609.565	-3.00	5.748	609.066
-5.511	609.037	-5.000	609.378	-3.00	616+0.000	609.528	609.013	0.515	5.000	609.378	-3.00	5.729	608.892
-5.768	608.678	-5.000	609.190	-3.00	617+0.000	609.340	608.858	0.482	5.000	609.190	-3.00	5.706	608.719
-5.637	608.578	-5.000	609.002	-3.00	618+0.000	609.152	608.714	0.438	5.000	609.002	-3.00	5.735	608.513
-5.267	608.637	-5.000	608.815	-3.00	619+0.000	608.965	608.566	0.399	5.000	608.815	-3.00	5.649	608.382
-5.620	608.214	-5.000	608.627	-3.00	620+0.000	608.777	608.409	0.368	5.000	608.627	-3.00	5.276	608.443
-5.046	608.409	-5.000	608.440	-3.00	621+0.000	608.590	608.248	0.342	5.000	608.440	-3.00	5.791	607.912
-5.443	607.957	-5.000	608.252	-3.00	622+0.000	608.402	608.030	0.373	5.000	608.252	-3.00	5.771	607.738
-5.576	607.681	-5.000	608.065	-3.00	623+0.000	608.215	607.801	0.414	5.000	608.065	-3.00	5.679	607.612
-5.381	607.623	-5.000	607.877	-3.00	624+0.000	608.027	607.647	0.380	5.000	607.877	-3.00	5.523	607.528
-5.397	607.425	-5.000	607.689	-3.00	625+0.000	607.839	607.471	0.368	5.000	607.689	-3.00	5.202	607.555
-5.075	607.452	-5.000	607.502	-3.00	626+0.000	607.652	607.262	0.390	5.000	607.502	-3.00	5.490	607.175
-5.061	607.273	-5.000	607.314	-3.00	627+0.000	607.464	607.160	0.304	5.000	607.314	-3.00	5.381	607.060
-5.119	607.246	-5.000	607.127	-3.00	628+0.000	607.277	607.347	-0.071	5.000	607.127	-3.00	5.118	607.244
-5.225	607.164	-5.000	606.939	-3.00	629+0.000	607.089	607.395	-0.306	5.000	606.939	-3.00	5.404	607.343
-5.183	606.629	-5.000	606.751	-3.00	630+0.000	606.901	606.866	0.036	5.000	606.751	-3.00	5.064	606.709
-5.468	606.252	-5.000	606.564	-3.00	631+0.000	606.714	606.453	0.261	5.000	606.564	-3.00	5.485	606.240
-5.319	606.163	-5.000	606.376	-3.00	632+0.000	606.526	606.215	0.311	5.000	606.376	-3.00	5.340	606.150
-5.645	605.758	-5.000	606.189	-3.00	633+0.000	606.339	606.013	0.326	5.000	606.189	-3.00	5.573	605.807
-5.703	605.532	-5.000	606.001	-3.00	634+0.000	606.151	605.825	0.326	5.000	606.001	-3.00	5.084	605.945
-5.194	605.684	-5.000	605.813	-3.00	635+0.000	605.963	605.657	0.307	5.000	605.813	-3.00	5.615	605.403
-5.156	605.522	-5.000	605.626	-3.00	636+0.000	605.776	605.441	0.335	5.000	605.626	-3.00	5.559	605.254
-5.769	604.925	-5.000	605.438	-3.00	637+0.000	605.588	605.205	0.383	5.000	605.438	-3.00	5.603	605.036
-5.669	604.805	-5.000	605.251	-3.00	638+0.000	605.401	605.035	0.366	5.000	605.251	-3.00	5.766	604.740
-5.622	604.648	-5.000	605.063	-3.00	639+0.000	605.213	604.811	0.402	5.000	605.063	-3.00	5.801	604.529
-5.657	604.438	-5.000	604.876	-3.00	640+0.000	605.026	604.588	0.437	5.000	604.876	-3.00	5.621	604.462
-5.686	604.231	-5.000	604.688	-3.00	641+0.000	604.838	604.381	0.457	5.000	604.688	-3.00	5.536	604.331
-5.316	604.290	-5.000	604.500	-3.00	642+0.000	604.650	604.225	0.426	5.000	604.500	-3.00	5.366	604.256
-5.447	604.014	-5.000	604.313	-3.00	643+0.000	604.463	604.125	0.337	5.000	604.313	-3.00	5.330	604.093
-5.194	604.320	-5.000	604.125	-3.00	644+0.000	604.275	604.455	-0.179	5.000	604.125	-3.00	5.242	604.367
-5.097	604.034	-5.000	603.938	-3.00	645+0.000	604.088	604.173	-0.085	5.000	603.938	-3.00	5.129	604.067
-5.354	603.514	-5.000	603.750	-3.00	646+0.000	603.900	603.571	0.329	5.000	603.750	-3.00	5.733	603.262
-5.081	603.558	-5.000	603.612	-3.00	647+0.000	603.762	603.373	0.389	5.000	603.612	-3.00	5.878	603.027
-5.623	603.059	-5.000	603.474	-3.00	648+0.000	603.624	603.212	0.412	5.000	603.474	-3.00	5.972	602.826
-5.307	603.132	-5.000	603.336	-3.00	649+0.000	603.486	603.075	0.411	5.000	603.336	-3.00	5.988	602.678

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.780	602.678	-5.000	603.198	-3.00	650+0.000	603.348	602.922	0.426	5.000	603.198	-3.00	5.986	602.541
-5.826	602.509	-5.000	603.060	-3.00	651+0.000	603.210	602.809	0.402	5.000	603.060	-3.00	5.976	602.410
-5.261	602.749	-5.000	602.922	-3.00	652+0.000	603.072	602.617	0.456	5.000	602.922	-3.00	5.978	602.271
-5.909	602.178	-5.000	602.784	-3.00	653+0.000	602.934	602.423	0.511	5.000	602.784	-3.00	5.295	602.588
-5.913	602.038	-5.000	602.647	-3.00	654+0.000	602.797	602.291	0.506	5.000	602.647	-3.00	5.377	602.395
-5.864	601.933	-5.000	602.509	-3.00	655+0.000	602.659	602.145	0.513	5.000	602.509	-3.00	5.875	601.926
-5.731	601.883	-5.000	602.371	-3.00	656+0.000	602.521	601.989	0.531	5.000	602.371	-3.00	5.484	602.048
-5.732	601.745	-5.000	602.233	-3.00	657+0.000	602.383	601.830	0.553	5.000	602.233	-3.00	5.683	601.777
-5.979	601.442	-5.000	602.095	-3.00	658+0.000	602.245	601.653	0.592	5.000	602.095	-3.00	5.902	601.493
-6.018	601.278	-5.000	601.957	-3.00	659+0.000	602.107	601.263	0.843	5.000	601.957	-3.00	5.827	601.406
-5.410	601.546	-5.000	601.819	-3.00	660+0.000	601.969	601.522	0.447	5.000	601.819	-3.00	5.659	601.380
-5.021	601.702	-5.000	601.681	-3.00	661+0.000	601.831	601.825	0.006	5.000	601.681	-3.00	5.000	601.681
-5.387	601.285	-5.000	601.543	-3.00	662+0.000	601.693	601.406	0.287	5.000	601.543	-3.00	5.251	601.376
-5.469	601.092	-5.000	601.405	-3.00	663+0.000	601.555	600.884	0.671	5.000	601.405	-3.00	5.939	600.779
-5.777	600.749	-5.000	601.267	-3.00	664+0.000	601.417	600.791	0.627	5.000	601.267	-3.00	5.961	600.626
-5.619	600.717	-5.000	601.129	-3.00	665+0.000	601.279	600.568	0.711	5.000	601.129	-3.00	5.774	600.613
-5.339	600.765	-5.000	600.991	-3.00	666+0.000	601.141	600.706	0.435	5.000	600.991	-3.00	5.723	600.510
-5.599	600.454	-5.000	600.853	-3.00	667+0.000	601.003	600.621	0.382	5.000	600.853	-3.00	5.602	600.452
-5.055	600.679	-5.000	600.716	-3.00	668+0.000	600.866	600.614	0.251	5.000	600.716	-3.00	5.152	600.614
-5.106	600.507	-5.000	600.578	-3.00	669+0.000	600.728	600.595	0.133	5.000	600.578	-3.00	5.021	600.564
-5.398	600.174	-5.000	600.440	-3.00	670+0.000	600.590	600.400	0.190	5.000	600.440	-3.00	5.204	600.304
-5.285	600.112	-5.000	600.302	-3.00	671+0.000	600.452	600.311	0.141	5.000	600.302	-3.00	5.103	600.233
-5.181	600.043	-5.000	600.164	-3.00	672+0.000	600.314	600.270	0.044	5.000	600.164	-3.00	5.030	600.194
-5.091	599.979	-5.000	600.040	-3.00	673+0.000	600.191	600.221	-0.031	5.000	600.040	-3.00	5.113	600.153
-5.097	599.880	-5.000	599.944	-3.00	674+0.000	600.094	600.129	-0.035	5.000	599.944	-3.00	5.109	600.054
-5.041	599.850	-5.000	599.877	-3.00	675+0.000	600.027	600.108	-0.080	5.000	599.877	-3.00	5.146	600.024
-5.304	600.142	-5.000	599.838	-3.00	676+0.000	599.988	600.307	-0.319	5.000	599.838	-3.00	5.398	600.236
-5.394	600.221	-5.000	599.827	-3.00	676+17.622	599.977	600.494	-0.517	5.000	599.827	-3.00	5.601	600.428
-5.358	600.185	-5.000	599.827	-3.00	677+0.000	599.977	600.455	-0.478	5.000	599.827	-3.00	5.568	600.396
-5.038	599.883	-5.000	599.845	-3.00	678+0.000	599.995	600.127	-0.132	5.000	599.845	-3.00	5.262	600.106
-5.181	599.756	-5.000	599.876	-3.00	679+0.000	600.026	599.916	0.111	5.000	599.876	-3.00	5.016	599.866
-5.366	599.664	-5.000	599.908	-3.00	680+0.000	600.058	599.785	0.273	5.000	599.908	-3.00	5.318	599.696
-5.191	599.813	-5.000	599.940	-3.00	681+0.000	600.090	599.739	0.351	5.000	599.940	-3.00	5.409	599.667
-5.542	599.610	-5.000	599.971	-3.00	682+0.000	600.121	599.777	0.344	5.000	599.971	-3.00	5.484	599.649
-5.316	599.792	-5.000	600.003	-3.00	683+0.000	600.153	599.871	0.282	5.000	600.003	-3.00	5.433	599.714
-5.455	599.731	-5.000	600.035	-3.00	684+0.000	600.185	599.866	0.319	5.000	600.035	-3.00	5.392	599.773
-5.348	599.834	-5.000	600.066	-3.00	685+0.000	600.216	599.854	0.362	5.000	600.066	-3.00	5.590	599.673
-5.018	600.086	-5.000	600.098	-3.00	686+0.000	600.248	600.122	0.126	5.000	600.098	-3.00	5.163	599.989
-5.005	600.126	-5.000	600.129	-3.00	687+0.000	600.279	600.237	0.042	5.000	600.129	-3.00	5.487	599.805
-5.262	599.986	-5.000	600.161	-3.00	688+0.000	600.311	600.036	0.275	5.000	600.161	-3.00	5.591	599.767
-5.498	599.861	-5.000	600.193	-3.00	689+0.000	600.343	600.010	0.333	5.000	600.193	-3.00	5.694	599.730
-5.446	599.927	-5.000	600.224	-3.00	690+0.000	600.374	599.993	0.382	5.000	600.224	-3.00	5.806	599.687
-5.545	599.893	-5.000	600.256	-3.00	691+0.000	600.406	600.002	0.404	5.000	600.256	-3.00	5.920	599.643
-5.427	600.003	-5.000	600.288	-3.00	692+0.000	600.438	600.007	0.430	5.000	600.288	-3.00	5.879	599.702
-5.782	599.798	-5.000	600.319	-3.00	693+0.000	600.469	600.030	0.439	5.000	600.319	-3.00	5.786	599.795
-5.410	600.077	-5.000	600.351	-3.00	694+0.000	600.501	600.038	0.462	5.000	600.351	-3.00	5.857	599.779
-5.653	599.947	-5.000	600.382	-3.00	695+0.000	600.532	600.056	0.476	5.000	600.382	-3.00	5.824	599.833
-5.356	600.177	-5.000	600.414	-3.00	696+0.000	600.564	600.092	0.471	5.000	600.414	-3.00	5.984	599.758
-5.488	600.120	-5.000	600.446	-3.00	697+0.000	600.596	600.128	0.468	5.000	600.446	-3.00	5.964	599.803
-5.916	599.866	-5.000	600.477	-3.00	698+0.000	600.627	600.138	0.489	5.000	600.477	-3.00	5.878	599.892
-5.575	600.125	-5.000	600.509	-3.00	699+0.000	600.659	600.225	0.434	5.000	600.509	-3.00	5.672	600.061
-5.781	600.020	-5.000	600.540	-3.00	700+0.000	600.690	600.295	0.396	5.000	600.540	-3.00	5.754	600.038
-5.508	600.233	-5.000	600.572	-3.00	701+0.000	600.722	600.380	0.342	5.000	600.572	-3.00	5.617	600.161
-5.197	600.472	-5.000	600.604	-3.00	702+0.000	600.754	600.455	0.298	5.000	600.604	-3.00	5.475	600.287
-5.545	600.259	-5.000	600.622	-3.00	702+11.858	600.772	600.494	0.278	5.000	600.622	-3.00	5.340	600.396
-5.533	600.280	-5.000	600.635	-3.00	703+0.000	600.785	600.522	0.263	5.000	600.635	-3.00	5.268	600.457
-5.443	600.372	-5.000	600.667	-3.00	704+0.000	600.817	600.610	0.207	5.000	600.667	-3.00	5.261	600.493
-5.379	601.139	-5.000	600.760	-3.00	705+0.000	600.910	601.130	-0.220	5.000	600.760	-3.00	5.223	600.983
-5.416	601.270	-5.000	600.854	-3.00	706+0.000	601.004	601.336	-0.332	5.000	600.854	-3.00	5.307	601.161
-5.100	600.881	-5.000	600.948	-3.00	707+0.000	601.098	601.038	0.060	5.000	600.948	-3.00	5.340	600.721
-5.048	601.089	-5.000	601.041	-3.00	708+0.000	601.191	601.023	0.168	5.000	601.041	-3.00	5.494	600.711


Responsável Técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabricio Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.189	601.009	-5.000	601.135	-3.00	709+0.000	601.285	601.096	0.189	5.000	601.135	-3.00	5.398	600.869
-5.000	601.228	-5.000	601.228	-3.00	710+0.000	601.378	601.160	0.219	5.000	601.228	-3.00	5.364	600.985
-5.352	601.087	-5.000	601.322	-3.00	711+0.000	601.472	601.220	0.252	5.000	601.322	-3.00	5.375	601.072
-5.277	601.230	-5.000	601.415	-3.00	712+0.000	601.565	601.275	0.290	5.000	601.415	-3.00	5.422	601.134
-5.279	601.322	-5.000	601.509	-3.00	713+0.000	601.659	601.337	0.321	5.000	601.509	-3.00	5.454	601.206
-5.344	601.373	-5.000	601.602	-3.00	714+0.000	601.752	601.430	0.322	5.000	601.602	-3.00	5.480	601.282
-5.067	601.651	-5.000	601.696	-3.00	715+0.000	601.846	601.530	0.316	5.000	601.696	-3.00	5.468	601.384
-5.278	601.604	-5.000	601.789	-3.00	716+0.000	601.939	601.636	0.304	5.000	601.789	-3.00	5.206	601.652
-5.023	601.867	-5.000	601.883	-3.00	717+0.000	602.033	601.730	0.303	5.000	601.883	-3.00	5.353	601.648
-5.384	601.721	-5.000	601.976	-3.00	718+0.000	602.126	601.816	0.311	5.000	601.976	-3.00	5.465	601.666
-5.476	601.753	-5.000	602.070	-3.00	719+0.000	602.220	601.908	0.312	5.000	602.070	-3.00	5.489	601.744
-5.053	602.217	-5.000	602.164	-3.00	720+0.000	602.314	602.032	0.282	5.000	602.164	-3.00	5.231	602.009
-5.090	602.347	-5.000	602.257	-3.00	721+0.000	602.407	602.091	0.316	5.000	602.257	-3.00	5.515	601.914
-5.152	602.249	-5.000	602.351	-3.00	722+0.000	602.501	602.197	0.304	5.000	602.351	-3.00	5.508	602.012
-5.378	602.192	-5.000	602.444	-3.00	723+0.000	602.594	602.321	0.274	5.000	602.444	-3.00	5.454	602.141
-5.068	602.493	-5.000	602.538	-3.00	724+0.000	602.688	602.535	0.152	5.000	602.538	-3.00	5.144	602.442
-5.214	602.846	-5.000	602.631	-3.00	725+0.000	602.781	602.884	-0.102	5.000	602.631	-3.00	5.224	602.855
-5.237	602.961	-5.000	602.725	-3.00	726+0.000	602.875	602.823	0.052	5.000	602.725	-3.00	5.000	602.725
-5.136	602.728	-5.000	602.818	-3.00	727+0.000	602.968	602.561	0.407	5.000	602.818	-3.00	5.684	602.362
-5.449	602.612	-5.000	602.912	-3.00	728+0.000	603.062	602.703	0.359	5.000	602.912	-3.00	5.644	602.482
-5.462	602.697	-5.000	603.005	-3.00	729+0.000	603.155	602.840	0.315	5.000	603.005	-3.00	5.461	602.698
-5.519	602.753	-5.000	603.099	-3.00	730+0.000	603.249	602.945	0.304	5.000	603.099	-3.00	5.606	602.695
-5.257	603.021	-5.000	603.192	-3.00	731+0.000	603.342	603.032	0.311	5.000	603.192	-3.00	5.581	602.805
-5.563	602.911	-5.000	603.286	-3.00	732+0.000	603.436	603.116	0.320	5.000	603.286	-3.00	5.482	602.965
-5.442	603.085	-5.000	603.379	-3.00	733+0.000	603.529	603.212	0.318	5.000	603.379	-3.00	5.220	603.233
-5.244	603.311	-5.000	603.473	-3.00	734+0.000	603.623	603.273	0.350	5.000	603.473	-3.00	5.614	603.064
-5.210	603.426	-5.000	603.567	-3.00	735+0.000	603.717	603.343	0.373	5.000	603.567	-3.00	5.629	603.147
-5.501	603.326	-5.000	603.660	-3.00	736+0.000	603.810	603.387	0.423	5.000	603.660	-3.00	5.239	603.501
-5.465	603.444	-5.000	603.754	-3.00	737+0.000	603.904	603.455	0.449	5.000	603.754	-3.00	5.637	603.329
-5.190	603.720	-5.000	603.847	-3.00	738+0.000	603.997	603.590	0.407	5.000	603.847	-3.00	5.629	603.428
-5.152	603.839	-5.000	603.941	-3.00	739+0.000	604.091	603.643	0.448	5.000	603.941	-3.00	5.642	603.513
-5.549	603.669	-5.000	604.034	-3.00	740+0.000	604.184	603.662	0.522	5.000	604.034	-3.00	5.667	603.589
-5.593	603.733	-5.000	604.128	-3.00	741+0.000	604.278	603.714	0.563	5.000	604.128	-3.00	5.500	603.794
-5.536	603.864	-5.000	604.221	-3.00	742+0.000	604.371	603.913	0.458	5.000	604.221	-3.00	5.811	603.681
-5.322	604.100	-5.000	604.315	-3.00	743+0.000	604.465	604.186	0.279	5.000	604.315	-3.00	5.628	603.896
-5.175	604.492	-5.000	604.317	-3.00	744+0.000	604.467	604.511	-0.044	5.000	604.317	-3.00	5.055	604.280
-5.092	604.411	-5.000	604.319	-3.00	745+0.000	604.469	604.398	0.072	5.000	604.319	-3.00	5.035	604.296
-5.418	604.043	-5.000	604.322	-3.00	746+0.000	604.472	604.022	0.450	5.000	604.322	-3.00	5.271	604.141
-5.146	604.227	-5.000	604.324	-3.00	747+0.000	604.474	604.062	0.412	5.000	604.324	-3.00	5.300	604.123
-5.283	604.137	-5.000	604.326	-3.00	748+0.000	604.476	604.126	0.350	5.000	604.326	-3.00	5.341	604.099
-5.233	604.173	-5.000	604.328	-3.00	749+0.000	604.478	604.140	0.338	5.000	604.328	-3.00	5.291	604.134
-5.214	604.188	-5.000	604.330	-3.00	750+0.000	604.480	604.254	0.227	5.000	604.330	-3.00	5.218	604.185
-5.218	604.187	-5.000	604.333	-3.00	751+0.000	604.483	604.280	0.203	5.000	604.333	-3.00	5.102	604.265
-5.111	604.261	-5.000	604.335	-3.00	752+0.000	604.485	604.219	0.265	5.000	604.335	-3.00	5.340	604.108
-5.057	604.299	-5.000	604.337	-3.00	753+0.000	604.487	604.262	0.225	5.000	604.337	-3.00	5.285	604.147
-5.053	604.392	-5.000	604.339	-3.00	754+0.000	604.489	604.292	0.197	5.000	604.339	-3.00	5.183	604.217
-5.041	604.383	-5.000	604.341	-3.00	755+0.000	604.491	604.236	0.255	5.000	604.341	-3.00	5.238	604.183
-5.132	604.255	-5.000	604.344	-3.00	756+0.000	604.494	604.217	0.277	5.000	604.344	-3.00	5.280	604.157
-5.172	604.231	-5.000	604.346	-3.00	757+0.000	604.496	604.174	0.322	5.000	604.346	-3.00	5.236	604.188
-5.245	604.185	-5.000	604.348	-3.00	758+0.000	604.498	604.061	0.437	5.000	604.348	-3.00	5.219	604.202
-5.517	604.006	-5.000	604.350	-3.00	759+0.000	604.500	604.212	0.288	5.000	604.350	-3.00	5.308	604.145
-5.151	604.252	-5.000	604.353	-3.00	760+0.000	604.503	604.092	0.410	5.000	604.353	-3.00	5.481	604.032
-5.464	604.045	-5.000	604.355	-3.00	761+0.000	604.505	604.076	0.429	5.000	604.355	-3.00	5.476	604.038
-5.293	604.162	-5.000	604.357	-3.00	762+0.000	604.507	604.016	0.491	5.000	604.357	-3.00	5.558	603.985
-5.308	604.152	-5.000	604.357	-3.00	762+2.475	604.507	604.006	0.501	5.000	604.357	-3.00	5.574	603.975
-5.509	604.011	-5.000	604.350	-3.00	763+0.000	604.500	604.073	0.427	5.000	604.350	-3.00	5.653	603.915
-5.534	603.970	-5.000	604.326	-3.00	764+0.000	604.476	604.031	0.445	5.000	604.326	-3.00	5.594	603.929
-5.484	603.960	-5.000	604.283	-3.00	765+0.000	604.433	604.005	0.427	5.000	604.283	-3.00	5.517	603.938
-5.232	604.068	-5.000	604.222	-3.00	766+0.000	604.372	603.950	0.422	5.000	604.222	-3.00	5.606	603.818
-5.449	603.845	-5.000	604.144	-3.00	767+0.000	604.294	603.942	0.352	5.000	604.144	-3.00	5.592	603.749
-5.093	604.141	-5.000	604.047	-3.00	768+0.000	604.197	604.222	-0.024	5.000	604.047	-3.00	5.111	603.974

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.163	604.096	-5.000	603.933	-3.00	769+0.000	604.083	604.107	-0.024	5.000	603.933	-3.00	5.149	604.082
-5.053	603.765	-5.000	603.801	-3.00	770+0.000	603.951	603.833	0.117	5.000	603.801	-3.00	5.213	603.659
-5.335	603.436	-5.000	603.659	-3.00	771+0.000	603.809	603.542	0.267	5.000	603.659	-3.00	5.350	603.426
-5.180	603.398	-5.000	603.518	-3.00	772+0.000	603.668	603.379	0.288	5.000	603.518	-3.00	5.432	603.230
-5.384	603.121	-5.000	603.377	-3.00	773+0.000	603.527	603.251	0.275	5.000	603.377	-3.00	5.159	603.270
-5.354	602.999	-5.000	603.235	-3.00	774+0.000	603.385	603.138	0.247	5.000	603.235	-3.00	5.137	603.144
-5.307	602.889	-5.000	603.094	-3.00	775+0.000	603.244	602.912	0.332	5.000	603.094	-3.00	5.463	602.785
-5.243	602.791	-5.000	602.953	-3.00	776+0.000	603.103	602.869	0.233	5.000	602.953	-3.00	5.577	602.568
-5.037	602.786	-5.000	602.811	-3.00	777+0.000	602.961	602.881	0.081	5.000	602.811	-3.00	5.528	602.460
-5.095	602.607	-5.000	602.670	-3.00	778+0.000	602.820	602.903	-0.083	5.000	602.670	-3.00	5.313	602.461
-5.387	602.916	-5.000	602.529	-3.00	779+0.000	602.679	603.061	-0.383	5.000	602.529	-3.00	5.181	602.710
-5.748	603.136	-5.000	602.387	-3.00	780+0.000	602.537	603.179	-0.641	5.000	602.387	-3.00	5.436	602.823
-5.860	603.106	-5.000	602.246	-3.00	781+0.000	602.396	603.015	-0.619	5.000	602.246	-3.00	5.375	602.621
-5.354	602.459	-5.000	602.105	-3.00	782+0.000	602.255	602.725	-0.471	5.000	602.105	-3.00	5.355	602.460
-5.086	602.049	-5.000	601.963	-3.00	783+0.000	602.113	602.212	-0.099	5.000	601.963	-3.00	5.018	601.981
-5.169	601.709	-5.000	601.822	-3.00	784+0.000	601.972	601.870	0.102	5.000	601.822	-3.00	5.185	601.699
-5.418	601.402	-5.000	601.681	-3.00	785+0.000	601.831	601.642	0.189	5.000	601.681	-3.00	5.278	601.496
-5.230	601.386	-5.000	601.539	-3.00	786+0.000	601.689	601.439	0.250	5.000	601.539	-3.00	5.307	601.335
-5.539	601.039	-5.000	601.398	-3.00	787+0.000	601.548	601.252	0.296	5.000	601.398	-3.00	5.301	601.197
-5.577	600.872	-5.000	601.257	-3.00	788+0.000	601.407	601.105	0.301	5.000	601.257	-3.00	5.318	601.044
-5.608	600.710	-5.000	601.115	-3.00	789+0.000	601.265	600.958	0.308	5.000	601.115	-3.00	5.328	600.897
-5.627	600.556	-5.000	600.974	-3.00	790+0.000	601.124	600.787	0.337	5.000	600.974	-3.00	5.472	600.660
-5.331	600.612	-5.000	600.833	-3.00	791+0.000	600.983	600.593	0.390	5.000	600.833	-3.00	5.274	600.650
-5.674	600.242	-5.000	600.691	-3.00	792+0.000	600.841	600.362	0.479	5.000	600.691	-3.00	5.279	600.505
-5.627	600.132	-5.000	600.550	-3.00	793+0.000	600.700	600.196	0.504	5.000	600.550	-3.00	5.406	600.279
-5.530	600.056	-5.000	600.409	-3.00	794+0.000	600.559	600.024	0.535	5.000	600.409	-3.00	5.503	600.073
-5.677	599.816	-5.000	600.267	-3.00	795+0.000	600.417	599.857	0.561	5.000	600.267	-3.00	5.614	599.858
-5.748	599.628	-5.000	600.126	-3.00	796+0.000	600.276	599.787	0.489	5.000	600.126	-3.00	5.653	599.691
-5.094	600.015	-5.000	599.921	-3.00	797+0.000	600.071	600.044	0.027	5.000	599.921	-3.00	5.031	599.900
-5.181	599.897	-5.000	599.715	-3.00	798+0.000	599.865	600.056	-0.190	5.000	599.715	-3.00	5.118	599.833
-5.370	599.263	-5.000	599.510	-3.00	799+0.000	599.689	599.514	0.146	5.000	599.510	-3.00	5.393	599.248
-5.473	598.989	-5.000	599.305	-3.00	800+0.000	599.455	599.082	0.373	5.000	599.305	-3.00	5.377	599.053
-5.918	598.487	-5.000	599.099	-3.00	801+0.000	599.249	598.713	0.537	5.000	599.099	-3.00	5.572	598.718
-5.667	598.449	-5.000	598.894	-3.00	802+0.000	599.044	598.485	0.558	5.000	598.894	-3.00	5.314	598.685
-5.936	598.064	-5.000	598.688	-3.00	803+0.000	598.838	598.269	0.569	5.000	598.688	-3.00	5.783	598.166
-5.791	597.955	-5.000	598.483	-3.00	804+0.000	598.633	598.084	0.549	5.000	598.483	-3.00	5.519	598.137
-5.689	597.818	-5.000	598.278	-3.00	805+0.000	598.428	597.882	0.546	5.000	598.278	-3.00	5.671	597.830
-5.933	597.450	-5.000	598.072	-3.00	806+0.000	598.222	597.712	0.510	5.000	598.072	-3.00	5.673	597.623
-5.479	597.548	-5.000	597.867	-3.00	807+0.000	598.017	597.480	0.537	5.000	597.867	-3.00	5.670	597.420
-5.357	597.423	-5.000	597.661	-3.00	808+0.000	597.811	597.236	0.576	5.000	597.661	-3.00	5.793	597.133
-5.948	596.824	-5.000	597.456	-3.00	809+0.000	597.606	597.131	0.475	5.000	597.456	-3.00	5.591	597.062
-5.895	596.654	-5.000	597.251	-3.00	810+0.000	597.401	596.997	0.404	5.000	597.251	-3.00	5.670	596.804
-5.522	596.697	-5.000	597.045	-3.00	811+0.000	597.195	596.732	0.463	5.000	597.045	-3.00	5.656	596.608
-5.207	596.702	-5.000	596.840	-3.00	812+0.000	596.990	596.551	0.438	5.000	596.840	-3.00	5.663	596.398
-5.410	596.361	-5.000	596.634	-3.00	813+0.000	596.784	596.391	0.394	5.000	596.634	-3.00	5.750	596.135
-5.348	596.197	-5.000	596.429	-3.00	814+0.000	596.579	596.434	0.145	5.000	596.429	-3.00	5.374	596.180
-5.285	596.509	-5.000	596.224	-3.00	815+0.000	596.374	596.651	-0.278	5.000	596.224	-3.00	5.272	596.496
-5.485	596.503	-5.000	596.018	-3.00	816+0.000	596.168	596.669	-0.501	5.000	596.018	-3.00	5.459	596.478
-5.083	595.896	-5.000	595.813	-3.00	817+0.000	595.963	596.052	-0.089	5.000	595.813	-3.00	5.131	595.944
-5.431	595.320	-5.000	595.607	-3.00	818+0.000	595.757	595.509	0.249	5.000	595.607	-3.00	5.324	595.391
-5.641	594.974	-5.000	595.402	-3.00	819+0.000	595.552	595.240	0.312	5.000	595.402	-3.00	5.372	595.154
-5.666	594.753	-5.000	595.197	-3.00	820+0.000	595.347	594.981	0.365	5.000	595.197	-3.00	5.469	594.884
-5.429	594.705	-5.000	594.991	-3.00	821+0.000	595.141	594.772	0.369	5.000	594.991	-3.00	5.452	594.690
-5.690	594.325	-5.000	594.786	-3.00	822+0.000	594.936	594.556	0.380	5.000	594.786	-3.00	5.540	594.426
-5.287	594.389	-5.000	594.580	-3.00	823+0.000	594.730	594.385	0.346	5.000	594.580	-3.00	5.532	594.226
-5.671	593.928	-5.000	594.375	-3.00	824+0.000	594.525	594.175	0.350	5.000	594.375	-3.00	5.362	594.134
-5.700	593.703	-5.000	594.170	-3.00	825+0.000	594.320	593.949	0.370	5.000	594.170	-3.00	5.493	593.841
-5.603	593.562	-5.000	593.964	-3.00	826+0.000	594.114	593.748	0.366	5.000	593.964	-3.00	5.500	593.631
-5.215	593.616	-5.000	593.759	-3.00	827+0.000	593.909	593.528	0.381	5.000	593.759	-3.00	5.518	593.414
-5.612	593.145	-5.000	593.553	-3.00	828+0.000	593.703	593.325	0.379	5.000	593.553	-3.00	5.490	593.227
-5.353	593.113	-5.000	593.348	-3.00	829+0.000	593.498	593.158	0.340	5.000	593.348	-3.00	5.480	593.028


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabrício Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.710	592.669	-5.000	593.143	-3.00	830+0.000	593.293	592.977	0.315	5.000	593.143	-3.00	5.510	592.803
-5.667	592.493	-5.000	592.937	-3.00	831+0.000	593.087	592.760	0.328	5.000	592.937	-3.00	5.419	592.658
-5.229	592.579	-5.000	592.732	-3.00	832+0.000	592.882	592.560	0.322	5.000	592.732	-3.00	5.387	592.474
-5.609	592.121	-5.000	592.526	-3.00	833+0.000	592.676	592.396	0.281	5.000	592.526	-3.00	5.455	592.223
-5.674	591.916	-5.000	592.365	-3.00	834+0.000	592.515	592.171	0.344	5.000	592.365	-3.00	5.564	591.989
-5.711	591.730	-5.000	592.204	-3.00	835+0.000	592.354	591.969	0.385	5.000	592.204	-3.00	5.491	591.876
-5.702	591.574	-5.000	592.042	-3.00	836+0.000	592.192	591.776	0.417	5.000	592.042	-3.00	5.684	591.586
-5.566	591.504	-5.000	591.881	-3.00	837+0.000	592.031	591.722	0.309	5.000	591.881	-3.00	5.768	591.369
-5.038	591.758	-5.000	591.720	-3.00	838+0.000	591.870	591.963	-0.093	5.000	591.720	-3.00	5.058	591.681
-5.209	591.767	-5.000	591.558	-3.00	839+0.000	591.708	592.005	-0.297	5.000	591.558	-3.00	5.239	591.798
-5.399	591.131	-5.000	591.397	-3.00	840+0.000	591.547	591.435	0.112	5.000	591.397	-3.00	5.074	591.348
-5.465	590.925	-5.000	591.236	-3.00	841+0.000	591.386	590.978	0.407	5.000	591.236	-3.00	5.722	590.754
-5.502	590.740	-5.000	591.074	-3.00	842+0.000	591.224	590.709	0.515	5.000	591.074	-3.00	5.928	590.455
-6.295	590.049	-5.000	590.913	-3.00	843+0.000	591.063	590.485	0.578	5.000	590.913	-3.00	5.648	590.481
-6.374	589.836	-5.000	590.752	-3.00	844+0.000	590.902	590.263	0.638	5.000	590.752	-3.00	5.753	590.249
-6.011	589.916	-5.000	590.590	-3.00	845+0.000	590.740	590.034	0.706	5.000	590.590	-3.00	6.003	589.922
-5.844	589.866	-5.000	590.429	-3.00	846+0.000	590.579	589.827	0.752	5.000	590.429	-3.00	6.197	589.631
-6.181	589.480	-5.000	590.268	-3.00	847+0.000	590.418	589.626	0.792	5.000	590.268	-3.00	5.943	589.639
-5.943	589.478	-5.000	590.106	-3.00	848+0.000	590.256	589.559	0.697	5.000	590.106	-3.00	6.079	589.387
-6.345	589.048	-5.000	589.945	-3.00	849+0.000	590.095	589.380	0.715	5.000	589.945	-3.00	6.098	589.213
-6.356	588.880	-5.000	589.784	-3.00	850+0.000	589.934	589.129	0.804	5.000	589.784	-3.00	6.144	589.021
-6.148	588.857	-5.000	589.622	-3.00	851+0.000	589.772	588.994	0.778	5.000	589.622	-3.00	6.117	588.877
-5.942	588.833	-5.000	589.461	-3.00	852+0.000	589.611	588.890	0.721	5.000	589.461	-3.00	6.111	588.720
-5.778	588.781	-5.000	589.300	-3.00	853+0.000	589.450	588.783	0.666	5.000	589.300	-3.00	6.037	588.608
-5.957	588.500	-5.000	589.138	-3.00	854+0.000	589.288	588.648	0.640	5.000	589.138	-3.00	5.944	588.509
-5.769	588.464	-5.000	588.977	-3.00	855+0.000	589.127	588.644	0.483	5.000	588.977	-3.00	5.804	588.441
-5.700	588.349	-5.000	588.815	-3.00	856+0.000	588.965	588.581	0.385	5.000	588.815	-3.00	5.695	588.352
-5.524	588.312	-5.000	588.661	-3.00	857+0.000	588.811	588.453	0.358	5.000	588.661	-3.00	5.635	588.238
-5.577	588.137	-5.000	588.522	-3.00	858+0.000	588.672	588.370	0.303	5.000	588.522	-3.00	5.639	588.096
-5.440	588.104	-5.000	588.398	-3.00	859+0.000	588.548	588.374	0.174	5.000	588.398	-3.00	5.709	587.925
-5.447	587.990	-5.000	588.288	-3.00	860+0.000	588.438	588.289	0.149	5.000	588.288	-3.00	5.721	587.807
-5.219	588.046	-5.000	588.192	-3.00	861+0.000	588.342	588.160	0.182	5.000	588.192	-3.00	5.752	587.691
-5.000	588.112	-5.000	588.112	-3.00	862+0.000	588.262	588.395	-0.133	5.000	588.112	-3.00	5.098	588.047
-5.304	588.350	-5.000	588.046	-3.00	863+0.000	588.196	588.615	-0.419	5.000	588.046	-3.00	5.316	588.362
-5.014	588.008	-5.000	587.995	-3.00	864+0.000	588.145	588.264	-0.119	5.000	587.995	-3.00	5.006	588.001
-5.278	587.773	-5.000	587.958	-3.00	865+0.000	588.108	587.989	0.119	5.000	587.958	-3.00	5.457	587.654
-5.287	587.745	-5.000	587.937	-3.00	866+0.000	588.087	587.951	0.135	5.000	587.937	-3.00	5.479	587.617
-5.294	587.734	-5.000	587.929	-3.00	866+19.658	588.079	587.942	0.138	5.000	587.929	-3.00	5.455	587.626
-5.296	587.732	-5.000	587.929	-3.00	867+0.000	588.079	587.941	0.139	5.000	587.929	-3.00	5.455	587.626
-5.410	587.663	-5.000	587.937	-3.00	868+0.000	588.087	587.908	0.179	5.000	587.937	-3.00	5.469	587.625
-5.468	587.640	-5.000	587.952	-3.00	869+0.000	588.102	587.906	0.196	5.000	587.952	-3.00	5.580	587.565
-5.525	587.617	-5.000	587.967	-3.00	870+0.000	588.117	587.895	0.222	5.000	587.967	-3.00	5.663	587.525
-5.579	587.596	-5.000	587.982	-3.00	871+0.000	588.132	587.901	0.231	5.000	587.982	-3.00	5.673	587.533
-5.647	587.566	-5.000	587.997	-3.00	872+0.000	588.147	587.881	0.266	5.000	587.997	-3.00	5.728	587.512
-5.723	587.530	-5.000	588.012	-3.00	873+0.000	588.162	587.854	0.308	5.000	588.012	-3.00	5.749	587.512
-5.793	587.498	-5.000	588.027	-3.00	874+0.000	588.177	587.798	0.378	5.000	588.027	-3.00	5.790	587.500
-6.017	587.364	-5.000	588.042	-3.00	875+0.000	588.192	587.716	0.475	5.000	588.042	-3.00	5.847	587.477
-6.117	587.312	-5.000	588.057	-3.00	876+0.000	588.207	587.684	0.522	5.000	588.057	-3.00	5.917	587.446
-6.099	587.339	-5.000	588.072	-3.00	877+0.000	588.222	587.685	0.537	5.000	588.072	-3.00	5.986	587.414
-6.081	587.366	-5.000	588.086	-3.00	878+0.000	588.236	587.766	0.470	5.000	588.086	-3.00	5.865	587.510
-5.940	587.475	-5.000	588.101	-3.00	879+0.000	588.251	587.892	0.360	5.000	588.101	-3.00	5.591	587.707
-6.041	587.422	-5.000	588.116	-3.00	880+0.000	588.266	587.813	0.453	5.000	588.116	-3.00	5.860	587.543
-6.257	587.293	-5.000	588.131	-3.00	881+0.000	588.281	587.680	0.601	5.000	588.131	-3.00	6.397	587.200
-6.256	587.309	-5.000	588.146	-3.00	882+0.000	588.296	587.635	0.661	5.000	588.146	-3.00	6.484	587.157
-6.065	587.351	-5.000	588.061	-3.00	883+0.000	588.211	587.623	0.588	5.000	588.061	-3.00	6.362	587.152
-5.827	587.424	-5.000	587.975	-3.00	884+0.000	588.125	587.681	0.444	5.000	587.975	-3.00	6.162	587.200
-5.619	587.476	-5.000	587.889	-3.00	885+0.000	588.039	587.725	0.314	5.000	587.889	-3.00	5.976	587.238
-5.510	587.463	-5.000	587.804	-3.00	886+0.000	587.954	587.702	0.251	5.000	587.804	-3.00	5.844	587.241
-5.459	587.412	-5.000	587.718	-3.00	887+0.000	587.868	587.650	0.218	5.000	587.718	-3.00	5.699	587.252

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.787	587.108	-5.000	587.632	-3.00	888+0.000	587.782	587.524	0.258	5.000	587.632	-3.00	5.493	587.303
-5.893	586.951	-5.000	587.546	-3.00	889+0.000	587.696	587.378	0.318	5.000	587.546	-3.00	5.384	587.290
-5.811	586.920	-5.000	587.461	-3.00	890+0.000	587.611	587.251	0.360	5.000	587.461	-3.00	5.276	587.277
-5.939	586.749	-5.000	587.375	-3.00	891+0.000	587.525	587.076	0.449	5.000	587.375	-3.00	5.917	586.764
-5.997	586.625	-5.000	587.289	-3.00	892+0.000	587.439	586.853	0.586	5.000	587.289	-3.00	6.012	586.615
-5.966	586.560	-5.000	587.204	-3.00	893+0.000	587.354	586.748	0.605	5.000	587.204	-3.00	5.936	586.579
-5.922	586.503	-5.000	587.118	-3.00	894+0.000	587.268	586.664	0.604	5.000	587.118	-3.00	5.744	586.622
-5.928	586.414	-5.000	587.032	-3.00	895+0.000	587.182	586.618	0.565	5.000	587.032	-3.00	5.808	586.494
-5.872	586.366	-5.000	586.947	-3.00	896+0.000	587.097	586.558	0.539	5.000	586.947	-3.00	5.782	586.426
-5.795	586.331	-5.000	586.861	-3.00	897+0.000	587.011	586.539	0.472	5.000	586.861	-3.00	5.716	586.384
-5.715	586.299	-5.000	586.775	-3.00	898+0.000	586.925	586.509	0.417	5.000	586.775	-3.00	5.729	586.289
-5.715	586.298	-5.000	586.775	-3.00	898+0.058	586.925	586.509	0.416	5.000	586.775	-3.00	5.729	586.289
-5.646	586.259	-5.000	586.690	-3.00	899+0.000	586.840	586.491	0.349	5.000	586.690	-3.00	5.779	586.170
-5.579	586.218	-5.000	586.604	-3.00	900+0.000	586.754	586.453	0.301	5.000	586.604	-3.00	5.812	586.063
-5.532	586.164	-5.000	586.518	-3.00	901+0.000	586.668	586.421	0.247	5.000	586.518	-3.00	5.727	586.034
-5.513	586.091	-5.000	586.433	-3.00	902+0.000	586.583	586.386	0.196	5.000	586.433	-3.00	5.307	586.228
-5.443	586.052	-5.000	586.347	-3.00	903+0.000	586.497	586.236	0.261	5.000	586.347	-3.00	5.483	586.025
-5.572	585.880	-5.000	586.261	-3.00	904+0.000	586.411	586.227	0.184	5.000	586.261	-3.00	5.370	586.014
-5.120	586.295	-5.000	586.176	-3.00	905+0.000	586.326	586.606	-0.280	5.000	586.176	-3.00	5.252	586.428
-5.401	586.491	-5.000	586.090	-3.00	906+0.000	586.240	586.816	-0.576	5.000	586.090	-3.00	5.528	586.618
-5.228	586.232	-5.000	586.004	-3.00	907+0.000	586.154	586.499	-0.345	5.000	586.004	-3.00	5.236	586.240
-5.088	586.007	-5.000	585.919	-3.00	908+0.000	586.069	586.191	-0.122	5.000	585.919	-3.00	5.017	585.936
-5.000	585.846	-5.000	585.846	-3.00	909+0.000	585.996	585.949	0.046	5.000	585.846	-3.00	5.023	585.869
-5.243	585.611	-5.000	585.773	-3.00	910+0.000	585.923	585.670	0.253	5.000	585.773	-3.00	5.225	585.623
-5.537	585.343	-5.000	585.700	-3.00	911+0.000	585.850	585.633	0.217	5.000	585.700	-3.00	5.044	585.671
-5.478	585.309	-5.000	585.628	-3.00	912+0.000	585.778	585.606	0.171	5.000	585.628	-3.00	5.333	585.406
-5.442	585.261	-5.000	585.555	-3.00	913+0.000	585.705	585.570	0.135	5.000	585.555	-3.00	5.320	585.342
-5.424	585.200	-5.000	585.482	-3.00	914+0.000	585.632	585.492	0.140	5.000	585.482	-3.00	5.011	585.475
-5.427	585.125	-5.000	585.409	-3.00	915+0.000	585.559	585.396	0.163	5.000	585.409	-3.00	5.398	585.144
-5.384	585.080	-5.000	585.337	-3.00	916+0.000	585.487	585.061	0.425	5.000	585.337	-3.00	5.402	585.069
-5.421	584.984	-5.000	585.264	-3.00	917+0.000	585.414	585.252	0.162	5.000	585.264	-3.00	5.063	585.327
-5.175	585.075	-5.000	585.191	-3.00	918+0.000	585.341	585.218	0.123	5.000	585.191	-3.00	5.145	585.095
-5.433	584.830	-5.000	585.119	-3.00	919+0.000	585.269	585.128	0.141	5.000	585.119	-3.00	5.072	585.070
-5.387	584.788	-5.000	585.046	-3.00	920+0.000	585.196	584.974	0.222	5.000	585.046	-3.00	5.343	584.817
-5.429	584.687	-5.000	584.973	-3.00	921+0.000	585.123	585.003	0.120	5.000	584.973	-3.00	5.247	584.809
-5.000	584.900	-5.000	584.900	-3.00	922+0.000	585.050	585.264	-0.214	5.000	584.900	-3.00	5.171	585.072
-5.301	585.129	-5.000	584.828	-3.00	923+0.000	584.978	585.474	-0.496	5.000	584.828	-3.00	5.444	585.272
-5.000	584.755	-5.000	584.755	-3.00	924+0.000	584.905	585.043	-0.138	5.000	584.755	-3.00	5.088	584.843
-5.535	584.326	-5.000	584.682	-3.00	925+0.000	584.832	584.609	0.223	5.000	584.682	-3.00	5.621	584.268
-5.543	584.248	-5.000	584.609	-3.00	926+0.000	584.759	584.404	0.356	5.000	584.609	-3.00	5.720	584.129
-5.734	584.031	-5.000	584.521	-3.00	927+0.000	584.671	584.249	0.421	5.000	584.521	-3.00	5.821	583.973
-5.802	583.897	-5.000	584.432	-3.00	928+0.000	584.584	584.118	0.464	5.000	584.432	-3.00	5.801	583.898
-5.781	583.822	-5.000	584.343	-3.00	929+0.000	584.493	584.029	0.464	5.000	584.343	-3.00	5.798	583.811
-5.570	583.874	-5.000	584.254	-3.00	930+0.000	584.404	583.973	0.431	5.000	584.254	-3.00	5.802	583.720
-5.735	583.675	-5.000	584.165	-3.00	931+0.000	584.315	583.916	0.399	5.000	584.165	-3.00	5.768	583.654
-5.489	583.751	-5.000	584.077	-3.00	932+0.000	584.227	583.825	0.402	5.000	584.077	-3.00	5.728	583.591
-5.452	583.687	-5.000	583.988	-3.00	933+0.000	584.138	583.732	0.406	5.000	583.988	-3.00	5.689	583.529
-5.573	583.517	-5.000	583.899	-3.00	934+0.000	584.049	583.619	0.430	5.000	583.899	-3.00	5.391	583.639
-5.406	583.539	-5.000	583.810	-3.00	935+0.000	583.960	583.504	0.456	5.000	583.810	-3.00	5.447	583.512
-5.679	583.269	-5.000	583.722	-3.00	936+0.000	583.872	583.411	0.461	5.000	583.722	-3.00	5.583	583.333
-5.810	583.093	-5.000	583.633	-3.00	937+0.000	583.783	583.362	0.421	5.000	583.633	-3.00	5.620	583.219
-5.079	583.491	-5.000	583.544	-3.00	938+0.000	583.694	583.573	0.121	5.000	583.544	-3.00	5.223	583.395
-5.238	583.693	-5.000	583.455	-3.00	939+0.000	583.605	583.888	-0.283	5.000	583.455	-3.00	5.268	583.723
-5.009	583.360	-5.000	583.366	-3.00	940+0.000	583.516	583.528	-0.011	5.000	583.366	-3.00	5.043	583.409
-5.467	582.966	-5.000	583.278	-3.00	941+0.000	583.428	583.118	0.310	5.000	583.278	-3.00	5.432	582.990
-5.712	582.714	-5.000	583.189	-3.00	942+0.000	583.339	582.931	0.407	5.000	583.189	-3.00	5.534	582.833
-5.847	582.536	-5.000	583.100	-3.00	943+0.000	583.250	582.753	0.497	5.000	583.100	-3.00	5.756	582.596
-5.897	582.413	-5.000	583.011	-3.00	944+0.000	583.161	582.691	0.470	5.000	583.011	-3.00	5.819	582.465
-5.929	582.303	-5.000	582.922	-3.00	945+0.000	583.072	582.643	0.429	5.000	582.922	-3.00	5.874	582.340
-5.764	582.324	-5.000	582.834	-3.00	946+0.000	582.984	582.537	0.446	5.000	582.834	-3.00	5.772	582.319


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
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CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.972	582.097	-5.000	582.745	-3.00	947+0.000	582.895	582.427	0.468	5.000	582.745	-3.00	5.810	582.205
-5.976	582.005	-5.000	582.656	-3.00	948+0.000	582.806	582.365	0.441	5.000	582.656	-3.00	5.564	582.280
-5.910	581.961	-5.000	582.567	-3.00	949+0.000	582.717	582.271	0.447	5.000	582.567	-3.00	5.789	582.041
-5.769	581.966	-5.000	582.479	-3.00	950+0.000	582.629	582.146	0.483	5.000	582.479	-3.00	5.755	581.975
-5.853	581.821	-5.000	582.390	-3.00	951+0.000	582.540	582.053	0.487	5.000	582.390	-3.00	5.661	581.949
-5.947	581.670	-5.000	582.301	-3.00	952+0.000	582.451	581.960	0.491	5.000	582.301	-3.00	5.496	581.970
-5.855	581.642	-5.000	582.212	-3.00	953+0.000	582.362	581.875	0.487	5.000	582.212	-3.00	5.438	581.920
-5.303	581.921	-5.000	582.123	-3.00	954+0.000	582.273	581.867	0.406	5.000	582.123	-3.00	5.656	581.686
-5.780	581.514	-5.000	582.035	-3.00	955+0.000	582.185	581.993	0.192	5.000	582.035	-3.00	5.418	581.756
-5.261	582.207	-5.000	581.946	-3.00	956+0.000	582.096	582.400	-0.304	5.000	581.946	-3.00	5.208	582.154
-5.035	581.892	-5.000	581.857	-3.00	957+0.000	582.007	582.105	-0.098	5.000	581.857	-3.00	5.083	581.940
-5.385	581.511	-5.000	581.768	-3.00	958+0.000	581.918	581.748	0.170	5.000	581.768	-3.00	5.452	581.467
-5.724	581.197	-5.000	581.679	-3.00	959+0.000	581.829	581.470	0.360	5.000	581.679	-3.00	5.706	581.209
-5.767	581.080	-5.000	581.591	-3.00	960+0.000	581.741	581.200	0.541	5.000	581.591	-3.00	5.824	581.042
-5.820	580.934	-5.000	581.480	-3.00	961+0.000	581.630	581.099	0.531	5.000	581.480	-3.00	5.816	580.936
-5.938	580.745	-5.000	581.370	-3.00	962+0.000	581.520	580.998	0.522	5.000	581.370	-3.00	5.604	580.967
-5.924	580.643	-5.000	581.259	-3.00	963+0.000	581.409	580.901	0.508	5.000	581.259	-3.00	5.880	580.673
-5.847	580.584	-5.000	581.149	-3.00	964+0.000	581.299	580.514	0.785	5.000	581.149	-3.00	5.703	580.680
-5.505	580.702	-5.000	581.038	-3.00	965+0.000	581.188	580.686	0.502	5.000	581.038	-3.00	5.823	580.490
-5.448	580.629	-5.000	580.928	-3.00	966+0.000	581.078	580.539	0.539	5.000	580.928	-3.00	5.760	580.422
-5.763	580.309	-5.000	580.818	-3.00	967+0.000	580.968	580.432	0.536	5.000	580.818	-3.00	5.628	580.399
-5.668	580.262	-5.000	580.707	-3.00	968+0.000	580.857	580.368	0.489	5.000	580.707	-3.00	5.739	580.215
-5.831	580.043	-5.000	580.597	-3.00	969+0.000	580.747	580.237	0.510	5.000	580.597	-3.00	5.687	580.139
-5.669	580.040	-5.000	580.486	-3.00	970+0.000	580.636	580.080	0.556	5.000	580.486	-3.00	5.606	580.082
-5.632	579.955	-5.000	580.376	-3.00	971+0.000	580.526	579.996	0.530	5.000	580.376	-3.00	5.342	580.148
-5.628	579.846	-5.000	580.265	-3.00	972+0.000	580.415	579.788	0.627	5.000	580.265	-3.00	5.749	579.766
-5.032	580.133	-5.000	580.155	-3.00	973+0.000	580.305	580.107	0.197	5.000	580.155	-3.00	5.117	580.077
-5.517	580.562	-5.000	580.044	-3.00	974+0.000	580.194	580.442	-0.247	5.000	580.044	-3.00	5.235	580.279
-5.074	580.008	-5.000	579.934	-3.00	975+0.000	580.084	580.114	-0.030	5.000	579.934	-3.00	5.140	579.841
-5.478	579.505	-5.000	579.824	-3.00	976+0.000	579.974	579.507	0.466	5.000	579.824	-3.00	5.482	579.502
-5.649	579.281	-5.000	579.713	-3.00	977+0.000	579.863	579.321	0.542	5.000	579.713	-3.00	5.741	579.219
-5.815	579.059	-5.000	579.603	-3.00	978+0.000	579.753	579.136	0.616	5.000	579.603	-3.00	5.876	579.019
-5.968	578.847	-5.000	579.492	-3.00	979+0.000	579.642	579.087	0.555	5.000	579.492	-3.00	5.729	579.006
-5.792	578.854	-5.000	579.382	-3.00	980+0.000	579.532	579.008	0.524	5.000	579.382	-3.00	5.878	578.796
-5.467	578.960	-5.000	579.271	-3.00	981+0.000	579.421	578.901	0.520	5.000	579.271	-3.00	5.763	578.763
-5.763	578.652	-5.000	579.161	-3.00	982+0.000	579.311	578.780	0.531	5.000	579.161	-3.00	5.683	578.705
-5.613	578.642	-5.000	579.050	-3.00	983+0.000	579.200	578.691	0.510	5.000	579.050	-3.00	5.532	578.696
-5.584	578.551	-5.000	578.940	-3.00	984+0.000	579.090	578.545	0.545	5.000	578.940	-3.00	5.664	578.498
-5.643	578.401	-5.000	578.830	-3.00	985+0.000	578.980	578.419	0.561	5.000	578.830	-3.00	5.659	578.390
-5.314	578.510	-5.000	578.719	-3.00	986+0.000	578.869	578.398	0.471	5.000	578.719	-3.00	5.649	578.287
-5.354	578.373	-5.000	578.609	-3.00	987+0.000	578.759	578.375	0.384	5.000	578.609	-3.00	5.697	578.144
-5.239	578.339	-5.000	578.498	-3.00	988+0.000	578.648	578.490	0.159	5.000	578.498	-3.00	5.226	578.348
-5.194	578.301	-5.000	578.430	-3.00	989+0.000	578.580	578.642	-0.061	5.000	578.430	-3.00	5.106	578.537
-5.127	578.278	-5.000	578.363	-3.00	990+0.000	578.513	578.847	-0.335	5.000	578.363	-3.00	5.543	578.905
-5.294	578.589	-5.000	578.295	-3.00	991+0.000	578.445	578.683	-0.238	5.000	578.295	-3.00	5.324	578.618
-5.294	578.031	-5.000	578.227	-3.00	992+0.000	578.377	578.249	0.128	5.000	578.227	-3.00	5.507	577.889
-5.497	577.828	-5.000	578.159	-3.00	993+0.000	578.309	577.647	0.662	5.000	578.159	-3.00	5.670	577.713
-5.671	577.644	-5.000	578.091	-3.00	994+0.000	578.241	577.495	0.747	5.000	578.091	-3.00	5.746	577.594
-5.634	577.601	-5.000	578.023	-3.00	995+0.000	578.173	577.504	0.669	5.000	578.023	-3.00	5.786	577.499
-5.905	577.367	-5.000	577.970	-3.00	995+15.800	578.120	577.499	0.621	5.000	577.970	-3.00	5.779	577.450
-5.907	577.351	-5.000	577.955	-3.00	996+0.000	578.105	577.494	0.612	5.000	577.955	-3.00	5.777	577.437
-5.666	577.443	-5.000	577.888	-3.00	997+0.000	578.038	577.468	0.570	5.000	577.888	-3.00	5.745	577.391
-5.549	577.454	-5.000	577.820	-3.00	998+0.000	577.970	577.429	0.541	5.000	577.820	-3.00	5.701	577.352
-5.820	577.205	-5.000	577.752	-3.00	999+0.000	577.902	577.371	0.531	5.000	577.752	-3.00	5.622	577.337
-5.864	577.108	-5.000	577.684	-3.00	1000+0.000	577.834	577.334	0.501	5.000	577.684	-3.00	5.660	577.244
-5.504	577.280	-5.000	577.616	-3.00	1001+0.000	577.766	577.272	0.495	5.000	577.616	-3.00	5.628	577.198
-5.758	577.043	-5.000	577.548	-3.00	1002+0.000	577.698	577.179	0.520	5.000	577.548	-3.00	5.655	577.112
-5.712	577.006	-5.000	577.481	-3.00	1003+0.000	577.631	577.163	0.467	5.000	577.481	-3.00	5.712	577.006
-5.426	577.129	-5.000	577.413	-3.00	1004+0.000	577.563	577.130	0.433	5.000	577.413	-3.00	5.378	577.161
-5.400	577.078	-5.000	577.345	-3.00	1005+0.000	577.495	577.086	0.409	5.000	577.345	-3.00	5.544	576.982


Responsável técnica
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Engenheiro Civil
CREA-MT 1205190473


Corresponsável
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Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.735	576.799	-5.000	577.288	-3.00	1006+0.000	577.438	577.015	0.424	5.000	577.288	-3.00	5.699	576.822
-5.562	576.880	-5.000	577.254	-3.00	1007+0.000	577.404	577.091	0.313	5.000	577.254	-3.00	5.635	576.831
-5.511	576.902	-5.000	577.243	-3.00	1008+0.000	577.393	577.123	0.270	5.000	577.243	-3.00	5.532	576.888
-5.511	576.902	-5.000	577.243	-3.00	1008+0.166	577.393	577.123	0.270	5.000	577.243	-3.00	5.531	576.889
-5.544	576.891	-5.000	577.254	-3.00	1009+0.000	577.404	577.160	0.244	5.000	577.254	-3.00	5.446	576.957
-5.479	576.968	-5.000	577.288	-3.00	1010+0.000	577.438	577.244	0.194	5.000	577.288	-3.00	5.422	577.006
-5.445	577.047	-5.000	577.344	-3.00	1011+0.000	577.494	577.354	0.140	5.000	577.344	-3.00	5.479	577.024
-6.174	576.629	-5.000	577.411	-3.00	1012+0.000	577.561	576.896	0.665	5.000	577.411	-3.00	5.442	577.117
-6.452	576.511	-5.000	577.479	-3.00	1013+0.000	577.629	577.219	0.409	5.000	577.479	-3.00	5.404	577.210
-6.982	576.225	-5.000	577.546	-3.00	1014+0.000	577.696	577.364	0.332	5.000	577.546	-3.00	5.671	577.099
-7.185	576.157	-5.000	577.614	-3.00	1015+0.000	577.764	577.395	0.369	5.000	577.614	-3.00	5.949	576.981
-7.396	576.084	-5.000	577.681	-3.00	1016+0.000	577.831	577.298	0.533	5.000	577.681	-3.00	5.648	577.249
-7.283	576.227	-5.000	577.749	-3.00	1017+0.000	577.899	577.371	0.527	5.000	577.749	-3.00	5.864	577.173
-7.159	576.377	-5.000	577.816	-3.00	1018+0.000	577.966	577.081	0.885	5.000	577.816	-3.00	6.129	577.063
-7.033	576.529	-5.000	577.884	-3.00	1019+0.000	578.034	577.246	0.787	5.000	577.884	-3.00	6.284	577.028
-6.963	576.642	-5.000	577.951	-3.00	1020+0.000	578.101	577.376	0.725	5.000	577.951	-3.00	6.298	577.086
-6.440	577.058	-5.000	578.018	-3.00	1021+0.000	578.168	577.541	0.628	5.000	578.018	-3.00	6.068	577.306
-6.189	577.294	-5.000	578.086	-3.00	1022+0.000	578.236	577.422	0.813	5.000	578.086	-3.00	6.165	577.309
-6.795	576.957	-5.000	578.153	-3.00	1023+0.000	578.303	577.138	1.166	5.000	578.153	-3.00	6.905	576.884
-6.838	576.996	-5.000	578.221	-3.00	1024+0.000	578.371	576.953	1.418	5.000	578.221	-3.00	6.696	577.090
-6.920	577.009	-5.000	578.288	-3.00	1025+0.000	578.438	576.989	1.449	5.000	578.288	-3.00	6.780	577.102
-6.657	577.181	-5.000	578.285	-3.00	1026+0.000	578.435	577.048	1.388	5.000	578.285	-3.00	6.710	577.146
-6.644	577.187	-5.000	578.282	-3.00	1027+0.000	578.432	577.128	1.304	5.000	578.282	-3.00	6.584	577.226
-6.566	577.236	-5.000	578.279	-3.00	1028+0.000	578.429	577.248	1.181	5.000	578.279	-3.00	6.495	577.283
-6.363	577.368	-5.000	578.277	-3.00	1029+0.000	578.427	577.426	1.001	5.000	578.277	-3.00	6.435	577.320
-6.020	577.594	-5.000	578.274	-3.00	1030+0.000	578.424	577.720	0.703	5.000	578.274	-3.00	5.819	577.727
-5.312	578.063	-5.000	578.271	-3.00	1031+0.000	578.421	578.190	0.231	5.000	578.271	-3.00	5.230	578.117
-5.599	577.868	-5.000	578.268	-3.00	1032+0.000	578.418	578.111	0.306	5.000	578.268	-3.00	5.404	577.998
-6.304	577.395	-5.000	578.265	-3.00	1033+0.000	578.415	577.774	0.641	5.000	578.265	-3.00	6.048	577.566
-5.652	577.827	-5.000	578.262	-3.00	1034+0.000	578.412	577.802	0.610	5.000	578.262	-3.00	5.521	577.915
-5.733	577.770	-5.000	578.259	-3.00	1035+0.000	578.409	577.895	0.514	5.000	578.259	-3.00	5.298	578.060
-5.824	577.802	-5.000	578.351	-3.00	1036+0.000	578.501	577.874	0.628	5.000	578.351	-3.00	5.828	577.799
-5.892	577.849	-5.000	578.444	-3.00	1037+0.000	578.594	578.076	0.518	5.000	578.444	-3.00	5.822	577.896
-5.569	578.157	-5.000	578.536	-3.00	1038+0.000	578.686	578.213	0.474	5.000	578.536	-3.00	5.401	578.269
-5.560	578.256	-5.000	578.629	-3.00	1039+0.000	578.779	578.290	0.489	5.000	578.629	-3.00	5.314	578.420
-5.854	578.152	-5.000	578.722	-3.00	1040+0.000	578.872	578.157	0.715	5.000	578.722	-3.00	5.769	578.209
-5.825	578.264	-5.000	578.814	-3.00	1041+0.000	578.964	578.387	0.577	5.000	578.814	-3.00	5.792	578.286
-5.571	578.526	-5.000	578.907	-3.00	1042+0.000	579.057	578.472	0.584	5.000	578.907	-3.00	5.669	578.460
-5.618	578.587	-5.000	578.999	-3.00	1043+0.000	579.149	578.644	0.506	5.000	578.999	-3.00	5.439	578.706
-5.724	578.609	-5.000	579.092	-3.00	1044+0.000	579.242	578.768	0.474	5.000	579.092	-3.00	5.791	578.565
-5.596	578.787	-5.000	579.184	-3.00	1045+0.000	579.334	578.877	0.457	5.000	579.184	-3.00	5.766	578.674
-5.470	578.964	-5.000	579.277	-3.00	1046+0.000	579.427	578.909	0.517	5.000	579.277	-3.00	5.738	578.785
-5.344	579.140	-5.000	579.369	-3.00	1047+0.000	579.519	579.125	0.394	5.000	579.369	-3.00	5.191	579.242
-5.169	579.349	-5.000	579.462	-3.00	1048+0.000	579.612	579.592	0.020	5.000	579.462	-3.00	5.101	579.563
-5.219	579.773	-5.000	579.554	-3.00	1049+0.000	579.704	580.019	-0.314	5.000	579.554	-3.00	5.348	579.903
-5.129	579.561	-5.000	579.647	-3.00	1050+0.000	579.797	579.834	-0.037	5.000	579.647	-3.00	5.000	579.647
-5.712	579.265	-5.000	579.740	-3.00	1051+0.000	579.890	579.595	0.294	5.000	579.740	-3.00	5.565	579.363
-5.716	579.354	-5.000	579.832	-3.00	1052+0.000	579.982	579.629	0.353	5.000	579.832	-3.00	5.551	579.465
-5.463	579.616	-5.000	579.925	-3.00	1053+0.000	580.075	579.653	0.421	5.000	579.925	-3.00	5.543	579.563
-5.461	579.710	-5.000	580.017	-3.00	1054+0.000	580.167	579.741	0.426	5.000	580.017	-3.00	5.588	579.625
-5.767	579.598	-5.000	580.110	-3.00	1055+0.000	580.260	579.795	0.464	5.000	580.110	-3.00	5.618	579.698
-5.742	579.707	-5.000	580.202	-3.00	1056+0.000	580.352	579.858	0.494	5.000	580.202	-3.00	5.653	579.767
-5.628	579.876	-5.000	580.295	-3.00	1057+0.000	580.445	579.948	0.497	5.000	580.295	-3.00	5.710	579.822
-5.508	580.049	-5.000	580.387	-3.00	1058+0.000	580.537	580.021	0.516	5.000	580.387	-3.00	5.773	579.872
-5.595	580.083	-5.000	580.480	-3.00	1059+0.000	580.630	580.122	0.508	5.000	580.480	-3.00	5.726	579.996
-5.882	579.984	-5.000	580.572	-3.00	1060+0.000	580.722	580.195	0.528	5.000	580.572	-3.00	5.757	580.068
-5.770	580.152	-5.000	580.665	-3.00	1061+0.000	580.815	580.244	0.571	5.000	580.665	-3.00	5.823	580.116
-5.938	580.132	-5.000	580.757	-3.00	1062+0.000	580.907	580.323	0.584	5.000	580.757	-3.00	5.882	580.170
-5.831	580.296	-5.000	580.850	-3.00	1063+0.000	581.000	580.370	0.630	5.000	580.850	-3.00	5.941	580.223
-5.949	580.227	-5.000	580.860	-3.00	1064+0.000	581.010	580.394	0.616	5.000	580.860	-3.00	5.766	580.349


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabrício Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

NOTA DE SERVIÇO DE TERRAPLENAGEM

Lado Esquerdo					Eixo				Lado Direito				
Offset		Bordo da Pista			Estaca	Cota Projeto	Cota Terreno	Cota Vermelha	Bordo da Pista			Offset	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)					Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)
-5.850	580.304	-5.000	580.870	-3.00	1065+0.000	581.020	580.468	0.552	5.000	580.870	-3.00	5.800	580.337
-5.667	580.435	-5.000	580.880	-3.00	1066+0.000	581.030	580.555	0.475	5.000	580.880	-3.00	5.705	580.410
-5.743	580.394	-5.000	580.890	-3.00	1067+0.000	581.040	580.631	0.409	5.000	580.890	-3.00	5.752	580.389
-5.443	580.605	-5.000	580.900	-3.00	1068+0.000	581.050	580.553	0.497	5.000	580.900	-3.00	5.662	580.459
-5.329	580.691	-5.000	580.910	-3.00	1069+0.000	581.060	580.686	0.373	5.000	580.910	-3.00	5.505	580.573
-5.378	580.668	-5.000	580.920	-3.00	1070+0.000	581.070	580.781	0.289	5.000	580.920	-3.00	5.356	580.682
-5.249	580.763	-5.000	580.930	-3.00	1071+0.000	581.080	580.838	0.241	5.000	580.930	-3.00	5.219	580.784
-5.363	580.698	-5.000	580.940	-3.00	1072+0.000	581.090	580.784	0.306	5.000	580.940	-3.00	5.438	580.647


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabrício Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

3.1 – RELATÓRIO DE ALINHAMENTO HORIZONTAL POR ESTACA

Estaca	Este	Norte
0+0,000	254.253,643	8.482.209,573
1+0,000	254.233,647	8.482.209,171
2+0,000	254.213,651	8.482.208,769
3+0,000	254.193,655	8.482.208,366
4+0,000	254.173,659	8.482.207,964
5+0,000	254.153,663	8.482.207,562
6+0,000	254.133,667	8.482.207,160
7+0,000	254.113,671	8.482.206,757
8+0,000	254.093,675	8.482.206,355
9+0,000	254.073,679	8.482.205,953
10+0,000	254.053,683	8.482.205,551
11+0,000	254.033,688	8.482.205,149
12+0,000	254.013,692	8.482.204,746
13+0,000	253.993,696	8.482.204,344
14+0,000	253.973,700	8.482.203,942
15+0,000	253.953,704	8.482.203,540
16+0,000	253.933,708	8.482.203,137
17+0,000	253.913,712	8.482.202,735
18+0,000	253.893,716	8.482.202,333
19+0,000	253.873,720	8.482.201,931
20+0,000	253.853,724	8.482.201,529
21+0,000	253.833,728	8.482.201,126
22+0,000	253.813,732	8.482.200,724
23+0,000	253.793,736	8.482.200,322
24+0,000	253.773,740	8.482.199,920
25+0,000	253.753,744	8.482.199,517
26+0,000	253.733,748	8.482.199,115
27+0,000	253.713,752	8.482.198,713
28+0,000	253.693,756	8.482.198,311
29+0,000	253.673,760	8.482.197,909
30+0,000	253.653,764	8.482.197,506
31+0,000	253.633,768	8.482.197,104
32+0,000	253.613,772	8.482.196,702
33+0,000	253.593,777	8.482.196,300
34+0,000	253.573,781	8.482.195,897
35+0,000	253.553,785	8.482.195,495
36+0,000	253.533,789	8.482.195,093
37+0,000	253.513,793	8.482.194,691
38+0,000	253.493,797	8.482.194,289
39+0,000	253.473,801	8.482.193,886
40+0,000	253.453,805	8.482.193,484
41+0,000	253.433,809	8.482.193,082
42+0,000	253.413,813	8.482.192,680
43+0,000	253.393,817	8.482.192,277
44+0,000	253.373,821	8.482.191,875
45+0,000	253.353,825	8.482.191,473
46+0,000	253.333,829	8.482.191,071
47+0,000	253.313,833	8.482.190,669
48+0,000	253.293,837	8.482.190,266

Estaca	Este	Norte
49+0,000	253.273,841	8.482.189,864
50+0,000	253.253,845	8.482.189,462
51+0,000	253.233,849	8.482.189,060
52+0,000	253.213,853	8.482.188,657
53+0,000	253.193,857	8.482.188,255
54+0,000	253.173,861	8.482.187,853
55+0,000	253.153,866	8.482.187,451
56+0,000	253.133,870	8.482.187,049
57+0,000	253.113,874	8.482.186,646
58+0,000	253.093,878	8.482.186,244
59+0,000	253.073,882	8.482.185,842
60+0,000	253.053,886	8.482.185,440
61+0,000	253.033,890	8.482.185,037
62+0,000	253.013,894	8.482.184,635
63+0,000	252.993,898	8.482.184,233
64+0,000	252.973,902	8.482.183,831
65+0,000	252.953,906	8.482.183,428
66+0,000	252.933,910	8.482.183,026
67+0,000	252.913,914	8.482.182,624
68+0,000	252.893,918	8.482.182,222
69+0,000	252.873,922	8.482.181,820
70+0,000	252.853,926	8.482.181,417
71+0,000	252.833,930	8.482.181,015
72+0,000	252.813,934	8.482.180,613
73+0,000	252.793,938	8.482.180,211
74+0,000	252.773,942	8.482.179,808
75+0,000	252.753,946	8.482.179,406
76+0,000	252.733,950	8.482.179,004
77+0,000	252.713,955	8.482.178,602
78+0,000	252.693,959	8.482.178,200
79+0,000	252.673,963	8.482.177,797
80+0,000	252.653,967	8.482.177,395
81+0,000	252.633,971	8.482.176,993
82+0,000	252.613,975	8.482.176,591
83+0,000	252.593,979	8.482.176,188
84+0,000	252.573,983	8.482.175,786
85+0,000	252.553,987	8.482.175,384
86+0,000	252.534,214	8.482.177,544
87+0,000	252.516,790	8.482.187,088
88+0,000	252.504,458	8.482.202,665
89+0,000	252.499,165	8.482.221,813
90+0,000	252.498,791	8.482.241,809
91+0,000	252.498,492	8.482.261,806
92+0,000	252.498,193	8.482.281,804
93+0,000	252.497,894	8.482.301,802
94+0,000	252.497,595	8.482.321,800
95+0,000	252.497,295	8.482.341,797
96+0,000	252.496,996	8.482.361,795
97+0,000	252.496,697	8.482.381,793

Estaca	Este	Norte
98+0,000	252.496,398	8.482.401,791
99+0,000	252.496,099	8.482.421,789
100+0,000	252.495,800	8.482.441,786
101+0,000	252.495,501	8.482.461,784
102+0,000	252.495,202	8.482.481,782
103+0,000	252.494,903	8.482.501,780
104+0,000	252.494,604	8.482.521,777
105+0,000	252.494,305	8.482.541,775
106+0,000	252.494,006	8.482.561,773
107+0,000	252.493,707	8.482.581,771
108+0,000	252.493,407	8.482.601,768
109+0,000	252.493,108	8.482.621,766
110+0,000	252.492,809	8.482.641,764
111+0,000	252.492,510	8.482.661,762
112+0,000	252.492,211	8.482.681,759
113+0,000	252.491,912	8.482.701,757
114+0,000	252.491,613	8.482.721,755
115+0,000	252.491,314	8.482.741,753
116+0,000	252.491,015	8.482.761,751
117+0,000	252.490,716	8.482.781,748
118+0,000	252.490,417	8.482.801,746
119+0,000	252.490,118	8.482.821,744
120+0,000	252.489,819	8.482.841,742
121+0,000	252.489,519	8.482.861,739
122+0,000	252.489,220	8.482.881,737
123+0,000	252.488,921	8.482.901,735
124+0,000	252.488,622	8.482.921,733
125+0,000	252.488,323	8.482.941,730
126+0,000	252.488,024	8.482.961,728
127+0,000	252.487,725	8.482.981,726
128+0,000	252.487,426	8.483.001,724
129+0,000	252.487,141	8.483.021,722
130+0,000	252.486,857	8.483.041,720
131+0,000	252.486,573	8.483.061,718
132+0,000	252.486,289	8.483.081,716
133+0,000	252.486,005	8.483.101,714
134+0,000	252.485,722	8.483.121,712
135+0,000	252.485,438	8.483.141,710
136+0,000	252.485,154	8.483.161,708
137+0,000	252.484,870	8.483.181,706
138+0,000	252.484,586	8.483.201,704
139+0,000	252.484,303	8.483.221,702
140+0,000	252.484,019	8.483.241,699
141+0,000	252.483,735	8.483.261,697
142+0,000	252.483,451	8.483.281,695
143+0,000	252.483,168	8.483.301,693
144+0,000	252.482,884	8.483.321,691
145+0,000	252.482,600	8.483.341,689
146+0,000	252.482,316	8.483.361,687

Estaca	Este	Norte
147+0,000	252.482,032	8.483.381,685
148+0,000	252.481,749	8.483.401,683
149+0,000	252.481,465	8.483.421,681
150+0,000	252.481,181	8.483.441,679
151+0,000	252.480,897	8.483.461,677
152+0,000	252.480,613	8.483.481,675
153+0,000	252.480,330	8.483.501,673
154+0,000	252.480,046	8.483.521,671
155+0,000	252.479,762	8.483.541,669
156+0,000	252.479,478	8.483.561,667
157+0,000	252.479,195	8.483.581,665
158+0,000	252.478,911	8.483.601,663
159+0,000	252.478,627	8.483.621,661
160+0,000	252.478,343	8.483.641,659
161+0,000	252.478,059	8.483.661,657
162+0,000	252.477,776	8.483.681,655
163+0,000	252.477,492	8.483.701,653
164+0,000	252.477,208	8.483.721,651
165+0,000	252.476,924	8.483.741,649
166+0,000	252.476,640	8.483.761,647
167+0,000	252.476,357	8.483.781,645
168+0,000	252.476,073	8.483.801,643
169+0,000	252.475,789	8.483.821,641
170+0,000	252.475,505	8.483.841,639
171+0,000	252.475,222	8.483.861,637
172+0,000	252.474,938	8.483.881,635
173+0,000	252.474,654	8.483.901,633
174+0,000	252.474,370	8.483.921,631
175+0,000	252.474,086	8.483.941,629
176+0,000	252.473,783	8.483.961,627
177+0,000	252.473,467	8.483.981,624
178+0,000	252.473,151	8.484.001,622
179+0,000	252.472,835	8.484.021,619
180+0,000	252.472,519	8.484.041,617
181+0,000	252.472,202	8.484.061,614
182+0,000	252.471,886	8.484.081,612
183+0,000	252.471,570	8.484.101,609
184+0,000	252.471,254	8.484.121,607
185+0,000	252.470,937	8.484.141,604
186+0,000	252.470,621	8.484.161,602
187+0,000	252.470,305	8.484.181,599
188+0,000	252.469,989	8.484.201,597
189+0,000	252.469,672	8.484.221,594
190+0,000	252.469,356	8.484.241,592
191+0,000	252.469,040	8.484.261,589
192+0,000	252.468,724	8.484.281,587
193+0,000	252.468,407	8.484.301,584
194+0,000	252.468,091	8.484.321,582
195+0,000	252.467,775	8.484.341,579

Estaca	Este	Norte
196+0,000	252.467,459	8.484.361,577
197+0,000	252.467,143	8.484.381,574
198+0,000	252.466,826	8.484.401,572
199+0,000	252.466,510	8.484.421,569
200+0,000	252.466,194	8.484.441,567
201+0,000	252.465,878	8.484.461,564
202+0,000	252.465,561	8.484.481,562
203+0,000	252.465,245	8.484.501,559
204+0,000	252.464,929	8.484.521,557
205+0,000	252.464,613	8.484.541,554
206+0,000	252.464,296	8.484.561,552
207+0,000	252.463,980	8.484.581,549
208+0,000	252.463,664	8.484.601,547
209+0,000	252.463,348	8.484.621,544
210+0,000	252.463,067	8.484.641,542
211+0,000	252.462,807	8.484.661,541
212+0,000	252.462,548	8.484.681,539
213+0,000	252.462,289	8.484.701,537
214+0,000	252.462,029	8.484.721,535
215+0,000	252.461,770	8.484.741,534
216+0,000	252.461,510	8.484.761,532
217+0,000	252.461,251	8.484.781,530
218+0,000	252.460,991	8.484.801,529
219+0,000	252.460,732	8.484.821,527
220+0,000	252.460,473	8.484.841,525
221+0,000	252.460,213	8.484.861,524
222+0,000	252.459,954	8.484.881,522
223+0,000	252.459,694	8.484.901,520
224+0,000	252.459,435	8.484.921,519
225+0,000	252.459,175	8.484.941,517
226+0,000	252.458,916	8.484.961,515
227+0,000	252.458,657	8.484.981,514
228+0,000	252.458,397	8.485.001,512
229+0,000	252.458,138	8.485.021,510
230+0,000	252.457,878	8.485.041,509
231+0,000	252.457,619	8.485.061,507
232+0,000	252.457,359	8.485.081,505
233+0,000	252.457,100	8.485.101,504
234+0,000	252.456,841	8.485.121,502
235+0,000	252.456,581	8.485.141,500
236+0,000	252.456,322	8.485.161,498
237+0,000	252.456,062	8.485.181,497
238+0,000	252.455,803	8.485.201,495
239+0,000	252.455,543	8.485.221,493
240+0,000	252.455,284	8.485.241,492
241+0,000	252.455,025	8.485.261,490
242+0,000	252.454,765	8.485.281,488
243+0,000	252.454,506	8.485.301,487
244+0,000	252.454,217	8.485.321,485

Estaca	Este	Norte
245+0,000	252.453,878	8.485.341,482
246+0,000	252.453,539	8.485.361,479
247+0,000	252.453,200	8.485.381,476
248+0,000	252.452,861	8.485.401,473
249+0,000	252.452,522	8.485.421,470
250+0,000	252.452,183	8.485.441,467
251+0,000	252.451,844	8.485.461,464
252+0,000	252.451,505	8.485.481,462
253+0,000	252.451,166	8.485.501,459
254+0,000	252.450,827	8.485.521,456
255+0,000	252.450,488	8.485.541,453
256+0,000	252.450,149	8.485.561,450
257+0,000	252.449,810	8.485.581,447
258+0,000	252.449,471	8.485.601,444
259+0,000	252.449,132	8.485.621,441
260+0,000	252.448,793	8.485.641,439
261+0,000	252.448,454	8.485.661,436
262+0,000	252.448,114	8.485.681,433
263+0,000	252.447,775	8.485.701,430
264+0,000	252.447,436	8.485.721,427
265+0,000	252.447,097	8.485.741,424
266+0,000	252.446,758	8.485.761,421
267+0,000	252.446,419	8.485.781,418
268+0,000	252.446,080	8.485.801,416
269+0,000	252.445,741	8.485.821,413
270+0,000	252.445,402	8.485.841,410
271+0,000	252.445,063	8.485.861,407
272+0,000	252.444,724	8.485.881,404
273+0,000	252.444,385	8.485.901,401
274+0,000	252.444,046	8.485.921,398
275+0,000	252.443,707	8.485.941,395
276+0,000	252.443,368	8.485.961,393
277+0,000	252.443,029	8.485.981,390
278+0,000	252.442,690	8.486.001,387
279+0,000	252.442,351	8.486.021,384
280+0,000	252.442,012	8.486.041,381
281+0,000	252.441,673	8.486.061,378
282+0,000	252.441,334	8.486.081,375
283+0,000	252.440,995	8.486.101,372
284+0,000	252.440,656	8.486.121,370
285+0,000	252.440,317	8.486.141,367
286+0,000	252.439,978	8.486.161,364
287+0,000	252.439,639	8.486.181,361
288+0,000	252.439,300	8.486.201,358
289+0,000	252.438,961	8.486.221,355
290+0,000	252.438,622	8.486.241,352
291+0,000	252.438,283	8.486.261,350
292+0,000	252.437,944	8.486.281,347
293+0,000	252.437,605	8.486.301,344

Estaca	Este	Norte
294+0,000	252.437,266	8.486.321,341
295+0,000	252.436,927	8.486.341,338
296+0,000	252.436,588	8.486.361,335
297+0,000	252.436,249	8.486.381,332
298+0,000	252.435,910	8.486.401,329
299+0,000	252.435,571	8.486.421,327
300+0,000	252.435,232	8.486.441,324
301+0,000	252.434,893	8.486.461,321
302+0,000	252.434,554	8.486.481,318
303+0,000	252.434,215	8.486.501,315
304+0,000	252.433,876	8.486.521,312
305+0,000	252.433,537	8.486.541,309
306+0,000	252.433,198	8.486.561,306
307+0,000	252.432,859	8.486.581,304
308+0,000	252.432,520	8.486.601,301
309+0,000	252.432,181	8.486.621,298
310+0,000	252.431,842	8.486.641,295
311+0,000	252.431,503	8.486.661,292
312+0,000	252.431,164	8.486.681,289
313+0,000	252.430,825	8.486.701,286
314+0,000	252.430,486	8.486.721,283
315+0,000	252.430,147	8.486.741,280
316+0,000	252.429,808	8.486.761,278
317+0,000	252.429,469	8.486.781,275
318+0,000	252.429,130	8.486.801,272
319+0,000	252.428,791	8.486.821,269
320+0,000	252.428,452	8.486.841,266
321+0,000	252.428,113	8.486.861,263
322+0,000	252.427,774	8.486.881,260
323+0,000	252.427,435	8.486.901,257
324+0,000	252.427,096	8.486.921,254
325+0,000	252.426,757	8.486.941,251
326+0,000	252.426,418	8.486.961,248
327+0,000	252.426,079	8.486.981,246
328+0,000	252.425,740	8.487.001,243
329+0,000	252.425,401	8.487.021,240
330+0,000	252.425,062	8.487.041,237
331+0,000	252.424,723	8.487.061,234
332+0,000	252.424,384	8.487.081,231
333+0,000	252.424,045	8.487.101,228
334+0,000	252.423,706	8.487.121,225
335+0,000	252.423,367	8.487.141,222
336+0,000	252.422,928	8.487.161,219
337+0,000	252.422,589	8.487.181,217
338+0,000	252.422,250	8.487.201,214
339+0,000	252.421,911	8.487.221,211
340+0,000	252.421,572	8.487.241,208
341+0,000	252.421,233	8.487.261,205
342+0,000	252.420,894	8.487.281,202

Estaca	Este	Norte
343+0,000	252.420,554	8.487.301,199
344+0,000	252.420,215	8.487.321,196
345+0,000	252.419,876	8.487.341,193
346+0,000	252.419,537	8.487.361,190
347+0,000	252.419,198	8.487.381,187
348+0,000	252.418,859	8.487.401,185
349+0,000	252.418,520	8.487.421,182
350+0,000	252.418,181	8.487.441,179
351+0,000	252.417,842	8.487.461,176
352+0,000	252.417,503	8.487.481,173
353+0,000	252.417,164	8.487.501,170
354+0,000	252.416,825	8.487.521,167
355+0,000	252.416,486	8.487.541,164
356+0,000	252.416,147	8.487.561,161
357+0,000	252.415,808	8.487.581,158
358+0,000	252.415,469	8.487.601,155
359+0,000	252.415,130	8.487.621,153
360+0,000	252.414,791	8.487.641,150
361+0,000	252.414,452	8.487.661,147
362+0,000	252.414,113	8.487.681,144
363+0,000	252.413,774	8.487.701,141
364+0,000	252.413,435	8.487.721,138
365+0,000	252.413,096	8.487.741,135
366+0,000	252.412,757	8.487.761,132
367+0,000	252.412,418	8.487.781,129
368+0,000	252.412,079	8.487.801,126
369+0,000	252.411,740	8.487.821,123
370+0,000	252.411,401	8.487.841,121
371+0,000	252.411,062	8.487.861,118
372+0,000	252.410,723	8.487.881,115
373+0,000	252.410,384	8.487.901,112
374+0,000	252.410,045	8.487.921,109
375+0,000	252.409,706	8.487.941,106
376+0,000	252.409,367	8.487.961,103
377+0,000	252.409,028	8.487.981,100
378+0,000	252.408,689	8.488.001,097
379+0,000	252.408,350	8.488.021,094
380+0,000	252.408,011	8.488.041,092
381+0,000	252.407,672	8.488.061,089
382+0,000	252.407,333	8.488.081,086
383+0,000	252.406,994	8.488.101,083
384+0,000	252.406,655	8.488.121,080
385+0,000	252.406,316	8.488.141,077
386+0,000	252.405,977	8.488.161,074
387+0,000	252.405,638	8.488.181,071
388+0,000	252.405,299	8.488.201,068
389+0,000	252.404,960	8.488.221,065
390+0,000	252.404,621	8.488.241,062
391+0,000	252.404,282	8.488.261,060

Estaca	Este	Norte
392+0,000	252.403,887	8.488.281,057
393+0,000	252.403,546	8.488.301,054
394+0,000	252.403,205	8.488.321,051
395+0,000	252.402,864	8.488.341,048
396+0,000	252.402,523	8.488.361,045
397+0,000	252.402,183	8.488.381,042
398+0,000	252.401,842	8.488.401,039
399+0,000	252.401,501	8.488.421,036
400+0,000	252.401,160	8.488.441,033
401+0,000	252.400,819	8.488.461,030
402+0,000	252.400,478	8.488.481,028
403+0,000	252.400,137	8.488.501,025
404+0,000	252.399,796	8.488.521,022
405+0,000	252.399,455	8.488.541,019
406+0,000	252.399,114	8.488.561,016
407+0,000	252.398,773	8.488.581,013
408+0,000	252.398,432	8.488.601,010
409+0,000	252.398,091	8.488.621,007
410+0,000	252.397,750	8.488.641,004
411+0,000	252.397,409	8.488.661,001
412+0,000	252.397,068	8.488.680,999
413+0,000	252.396,727	8.488.700,996
414+0,000	252.396,386	8.488.720,993
415+0,000	252.396,045	8.488.740,990
416+0,000	252.395,704	8.488.760,987
417+0,000	252.395,363	8.488.780,984
418+0,000	252.395,022	8.488.800,981
419+0,000	252.394,681	8.488.820,978
420+0,000	252.394,341	8.488.840,975
421+0,000	252.394,000	8.488.860,972
422+0,000	252.393,659	8.488.880,969
423+0,000	252.393,318	8.488.900,967
424+0,000	252.392,977	8.488.920,964
425+0,000	252.392,636	8.488.940,961
426+0,000	252.392,295	8.488.960,958
427+0,000	252.391,954	8.488.980,955
428+0,000	252.391,613	8.489.000,952
429+0,000	252.391,272	8.489.020,949
430+0,000	252.390,931	8.489.040,946
431+0,000	252.390,590	8.489.060,943
432+0,000	252.390,249	8.489.080,940
433+0,000	252.389,908	8.489.100,937
434+0,000	252.389,567	8.489.120,935
435+0,000	252.389,226	8.489.140,932
436+0,000	252.388,885	8.489.160,929
437+0,000	252.388,544	8.489.180,926
438+0,000	252.388,203	8.489.200,923
439+0,000	252.387,862	8.489.220,920
440+0,000	252.387,521	8.489.240,917

Estaca	Este	Norte
441+0,000	252.387,180	8.489.260,914
442+0,000	252.386,839	8.489.280,911
443+0,000	252.386,499	8.489.300,908
444+0,000	252.386,158	8.489.320,906
445+0,000	252.385,817	8.489.340,903
446+0,000	252.385,476	8.489.360,900
447+0,000	252.385,135	8.489.380,897
448+0,000	252.384,794	8.489.400,894
449+0,000	252.384,453	8.489.420,891
450+0,000	252.384,112	8.489.440,888
451+0,000	252.383,771	8.489.460,885
452+0,000	252.383,430	8.489.480,882
453+0,000	252.383,089	8.489.500,879
454+0,000	252.382,748	8.489.520,876
455+0,000	252.382,407	8.489.540,874
456+0,000	252.382,066	8.489.560,871
457+0,000	252.381,725	8.489.580,868
458+0,000	252.381,384	8.489.600,865
459+0,000	252.381,043	8.489.620,862
460+0,000	252.380,702	8.489.640,859
461+0,000	252.380,361	8.489.660,856
462+0,000	252.380,020	8.489.680,853
463+0,000	252.379,679	8.489.700,850
464+0,000	252.379,338	8.489.720,847
465+0,000	252.378,997	8.489.740,844
466+0,000	252.378,657	8.489.760,842
467+0,000	252.378,316	8.489.780,839
468+0,000	252.377,975	8.489.800,836
469+0,000	252.377,634	8.489.820,833
470+0,000	252.377,293	8.489.840,830
471+0,000	252.376,952	8.489.860,827
472+0,000	252.376,611	8.489.880,824
473+0,000	252.376,270	8.489.900,821
474+0,000	252.375,929	8.489.920,818
475+0,000	252.375,588	8.489.940,815
476+0,000	252.375,247	8.489.960,813
477+0,000	252.374,906	8.489.980,810
478+0,000	252.374,565	8.490.000,807
479+0,000	252.374,224	8.490.020,804
480+0,000	252.373,883	8.490.040,801
481+0,000	252.373,542	8.490.060,798
482+0,000	252.373,201	8.490.080,795
483+0,000	252.372,860	8.490.100,792
484+0,000	252.372,519	8.490.120,789
485+0,000	252.372,178	8.490.140,786
486+0,000	252.371,837	8.490.160,783
487+0,000	252.371,496	8.490.180,781
488+0,000	252.371,156	8.490.200,778
489+0,000	252.370,815	8.490.220,775


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabricio Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

Estaca	Este	Norte
490+0,000	252.370,474	8.490.240,772
491+0,000	252.370,133	8.490.260,769
492+0,000	252.369,792	8.490.280,766
493+0,000	252.369,451	8.490.300,763
494+0,000	252.369,110	8.490.320,760
495+0,000	252.368,769	8.490.340,757
496+0,000	252.368,428	8.490.360,754
497+0,000	252.368,087	8.490.380,751
498+0,000	252.367,746	8.490.400,749
499+0,000	252.367,405	8.490.420,746
500+0,000	252.367,064	8.490.440,743
501+0,000	252.366,723	8.490.460,740
502+0,000	252.366,382	8.490.480,737
503+0,000	252.366,041	8.490.500,734
504+0,000	252.365,700	8.490.520,731
505+0,000	252.365,359	8.490.540,728
506+0,000	252.365,018	8.490.560,725
507+0,000	252.364,677	8.490.580,722
508+0,000	252.364,336	8.490.600,719
509+0,000	252.363,995	8.490.620,717
510+0,000	252.363,654	8.490.640,714
511+0,000	252.363,314	8.490.660,711
512+0,000	252.362,973	8.490.680,708
513+0,000	252.362,632	8.490.700,705
514+0,000	252.362,291	8.490.720,702
515+0,000	252.361,950	8.490.740,699
516+0,000	252.361,609	8.490.760,696
517+0,000	252.361,268	8.490.780,693
518+0,000	252.360,927	8.490.800,690
519+0,000	252.360,586	8.490.820,688
520+0,000	252.360,245	8.490.840,685
521+0,000	252.359,904	8.490.860,682
522+0,000	252.359,563	8.490.880,679
523+0,000	252.359,222	8.490.900,676
524+0,000	252.358,881	8.490.920,673
525+0,000	252.358,540	8.490.940,670
526+0,000	252.358,199	8.490.960,667
527+0,000	252.357,858	8.490.980,664
528+0,000	252.357,517	8.491.000,661
529+0,000	252.357,176	8.491.020,658
530+0,000	252.356,835	8.491.040,656
531+0,000	252.356,494	8.491.060,653
532+0,000	252.356,153	8.491.080,650
533+0,000	252.355,812	8.491.100,647
534+0,000	252.355,472	8.491.120,644
535+0,000	252.355,131	8.491.140,641
536+0,000	252.354,790	8.491.160,638
537+0,000	252.354,449	8.491.180,635
538+0,000	252.354,108	8.491.200,632

Estaca	Este	Norte
539+0,000	252.353,767	8.491.220,629
540+0,000	252.353,426	8.491.240,626
541+0,000	252.353,085	8.491.260,624
542+0,000	252.352,744	8.491.280,621
543+0,000	252.352,403	8.491.300,618
544+0,000	252.352,062	8.491.320,615
545+0,000	252.351,721	8.491.340,612
546+0,000	252.351,380	8.491.360,609
547+0,000	252.351,039	8.491.380,606
548+0,000	252.350,698	8.491.400,603
549+0,000	252.350,357	8.491.420,600
550+0,000	252.350,016	8.491.440,597
551+0,000	252.349,675	8.491.460,595
552+0,000	252.349,334	8.491.480,592
553+0,000	252.348,993	8.491.500,589
554+0,000	252.348,652	8.491.520,586
555+0,000	252.348,311	8.491.540,583
556+0,000	252.347,970	8.491.560,580
557+0,000	252.347,630	8.491.580,577
558+0,000	252.347,289	8.491.600,574
559+0,000	252.346,948	8.491.620,571
560+0,000	252.346,607	8.491.640,568
561+0,000	252.346,266	8.491.660,565
562+0,000	252.345,925	8.491.680,563
563+0,000	252.345,584	8.491.700,560
564+0,000	252.345,243	8.491.720,557
565+0,000	252.344,902	8.491.740,554
566+0,000	252.344,561	8.491.760,551
567+0,000	252.344,220	8.491.780,548
568+0,000	252.343,879	8.491.800,545
569+0,000	252.343,538	8.491.820,542
570+0,000	252.343,197	8.491.840,539
571+0,000	252.342,856	8.491.860,536
572+0,000	252.342,515	8.491.880,533
573+0,000	252.342,174	8.491.900,531
574+0,000	252.341,833	8.491.920,528
575+0,000	252.341,492	8.491.940,525
576+0,000	252.341,151	8.491.960,522
577+0,000	252.340,810	8.491.980,519
578+0,000	252.340,469	8.492.000,516
579+0,000	252.340,128	8.492.020,513
580+0,000	252.339,788	8.492.040,510
581+0,000	252.339,447	8.492.060,507
582+0,000	252.339,106	8.492.080,504
583+0,000	252.338,765	8.492.100,502
584+0,000	252.338,424	8.492.120,499
585+0,000	252.338,083	8.492.140,496
586+0,000	252.337,742	8.492.160,493
587+0,000	252.337,401	8.492.180,490

Estaca	Este	Norte
588+0,000	252.337,060	8.492.200,487
589+0,000	252.336,719	8.492.220,484
590+0,000	252.336,378	8.492.240,481
591+0,000	252.336,037	8.492.260,478
592+0,000	252.335,696	8.492.280,475
593+0,000	252.335,355	8.492.300,472
594+0,000	252.335,014	8.492.320,470
595+0,000	252.334,673	8.492.340,467
596+0,000	252.334,332	8.492.360,464
597+0,000	252.333,991	8.492.380,461
598+0,000	252.333,650	8.492.400,458
599+0,000	252.333,309	8.492.420,455
600+0,000	252.332,968	8.492.440,452
601+0,000	252.332,627	8.492.460,449
602+0,000	252.332,286	8.492.480,446
603+0,000	252.331,946	8.492.500,443
604+0,000	252.331,605	8.492.520,440
605+0,000	252.331,264	8.492.540,438
606+0,000	252.330,923	8.492.560,435
607+0,000	252.330,582	8.492.580,432
608+0,000	252.330,241	8.492.600,429
609+0,000	252.329,900	8.492.620,426
610+0,000	252.329,559	8.492.640,423
611+0,000	252.329,218	8.492.660,420
612+0,000	252.328,877	8.492.680,417
613+0,000	252.328,536	8.492.700,414
614+0,000	252.328,195	8.492.720,411
615+0,000	252.327,854	8.492.740,409
616+0,000	252.327,513	8.492.760,406
617+0,000	252.327,172	8.492.780,403
618+0,000	252.326,831	8.492.800,400
619+0,000	252.326,490	8.492.820,397
620+0,000	252.326,149	8.492.840,394
621+0,000	252.325,808	8.492.860,391
622+0,000	252.325,467	8.492.880,388
623+0,000	252.325,126	8.492.900,385
624+0,000	252.324,785	8.492.920,382
625+0,000	252.324,445	8.492.940,379
626+0,000	252.324,104	8.492.960,377
627+0,000	252.323,763	8.492.980,374
628+0,000	252.323,422	8.493.000,371
629+0,000	252.323,081	8.493.020,368
630+0,000	252.322,740	8.493.040,365
631+0,000	252.322,399	8.493.060,362
632+0,000	252.322,058	8.493.080,359
633+0,000	252.321,717	8.493.100,356
634+0,000	252.321,376	8.493.120,353
635+0,000	252.321,035	8.493.140,350
636+0,000	252.320,694	8.493.160,347

Estaca	Este	Norte
637+0,000	252.320,353	8.493.180,345
638+0,000	252.320,012	8.493.200,342
639+0,000	252.319,671	8.493.220,339
640+0,000	252.319,330	8.493.240,336
641+0,000	252.318,989	8.493.260,333
642+0,000	252.318,648	8.493.280,330
643+0,000	252.318,307	8.493.300,327
644+0,000	252.317,966	8.493.320,324
645+0,000	252.317,625	8.493.340,321
646+0,000	252.317,284	8.493.360,318
647+0,000	252.316,943	8.493.380,315
648+0,000	252.316,603	8.493.400,313
649+0,000	252.316,262	8.493.420,310
650+0,000	252.315,921	8.493.440,307
651+0,000	252.315,580	8.493.460,304
652+0,000	252.315,239	8.493.480,301
653+0,000	252.314,898	8.493.500,298
654+0,000	252.314,557	8.493.520,295
655+0,000	252.314,216	8.493.540,292
656+0,000	252.313,875	8.493.560,289
657+0,000	252.313,534	8.493.580,286
658+0,000	252.313,193	8.493.600,284
659+0,000	252.312,852	8.493.620,281
660+0,000	252.312,511	8.493.640,278
661+0,000	252.312,170	8.493.660,275
662+0,000	252.311,829	8.493.680,272
663+0,000	252.311,488	8.493.700,269
664+0,000	252.311,147	8.493.720,266
665+0,000	252.310,806	8.493.740,263
666+0,000	252.310,465	8.493.760,260
667+0,000	252.310,124	8.493.780,257
668+0,000	252.309,783	8.493.800,254
669+0,000	252.309,442	8.493.820,252
670+0,000	252.309,101	8.493.840,249
671+0,000	252.308,761	8.493.860,246
672+0,000	252.308,420	8.493.880,243
673+0,000	252.308,079	8.493.900,240
674+0,000	252.307,738	8.493.920,237
675+0,000	252.307,397	8.493.940,234
676+0,000	252.307,056	8.493.960,231
677+0,000	252.306,715	8.493.980,228
678+0,000	252.306,374	8.494.000,225
679+0,000	252.306,033	8.494.020,222
680+0,000	252.305,692	8.494.040,220
681+0,000	252.305,351	8.494.060,217
682+0,000	252.305,010	8.494.080,214
683+0,000	252.304,669	8.494.100,211
684+0,000	252.304,328	8.494.120,208
685+0,000	252.303,987	8.494.140,205

Estaca	Este	Norte
686+0,000	252.303,646	8.494.160,202
687+0,000	252.303,305	8.494.180,199
688+0,000	252.302,964	8.494.200,196
689+0,000	252.302,623	8.494.220,193
690+0,000	252.302,282	8.494.240,191
691+0,000	252.301,941	8.494.260,188
692+0,000	252.301,600	8.494.280,185
693+0,000	252.301,259	8.494.300,182
694+0,000	252.300,919	8.494.320,179
695+0,000	252.300,578	8.494.340,176
696+0,000	252.300,237	8.494.360,173
697+0,000	252.299,896	8.494.380,170
698+0,000	252.299,555	8.494.400,167
699+0,000	252.299,214	8.494.420,164
700+0,000	252.298,873	8.494.440,161
701+0,000	252.298,532	8.494.460,159
702+0,000	252.298,191	8.494.480,156
703+0,000	252.297,850	8.494.500,153
704+0,000	252.297,509	8.494.520,150
705+0,000	252.297,168	8.494.540,148
706+0,000	252.296,827	8.494.560,145
707+0,000	252.296,486	8.494.580,143
708+0,000	252.296,145	8.494.600,140
709+0,000	252.295,804	8.494.620,138
710+0,000	252.295,463	8.494.640,135
711+0,000	252.295,122	8.494.660,133
712+0,000	252.294,781	8.494.680,130
713+0,000	252.294,440	8.494.700,128
714+0,000	252.294,099	8.494.720,125
715+0,000	252.293,758	8.494.740,123
716+0,000	252.293,417	8.494.760,120
717+0,000	252.293,076	8.494.780,118
718+0,000	252.292,735	8.494.800,115
719+0,000	252.292,394	8.494.820,113
720+0,000	252.292,053	8.494.840,110
721+0,000	252.291,712	8.494.860,108
722+0,000	252.291,371	8.494.880,105
723+0,000	252.291,030	8.494.900,103
724+0,000	252.290,689	8.494.920,100
725+0,000	252.290,348	8.494.940,098
726+0,000	252.290,007	8.494.960,095
727+0,000	252.289,666	8.494.980,093
728+0,000	252.289,325	8.495.000,090
729+0,000	252.288,984	8.495.020,088
730+0,000	252.288,643	8.495.040,085
731+0,000	252.288,302	8.495.060,083
732+0,000	252.287,961	8.495.080,080
733+0,000	252.287,620	8.495.100,078
734+0,000	252.287,279	8.495.120,075

Estaca	Este	Norte
735+0,000	252.287,730	8.495.140,073
736+0,000	252.287,414	8.495.160,070
737+0,000	252.287,097	8.495.180,068
738+0,000	252.286,781	8.495.200,065
739+0,000	252.286,464	8.495.220,063
740+0,000	252.286,148	8.495.240,060
741+0,000	252.285,831	8.495.260,058
742+0,000	252.285,514	8.495.280,055
743+0,000	252.285,198	8.495.300,053
744+0,000	252.284,881	8.495.320,050
745+0,000	252.284,565	8.495.340,048
746+0,000	252.284,248	8.495.360,045
747+0,000	252.283,932	8.495.380,043
748+0,000	252.283,615	8.495.400,040
749+0,000	252.283,299	8.495.420,038
750+0,000	252.282,982	8.495.440,035
751+0,000	252.282,665	8.495.460,033
752+0,000	252.282,349	8.495.480,030
753+0,000	252.282,032	8.495.500,028
754+0,000	252.281,716	8.495.520,025
755+0,000	252.281,399	8.495.540,023
756+0,000	252.281,083	8.495.560,020
757+0,000	252.280,766	8.495.580,018
758+0,000	252.280,450	8.495.600,015
759+0,000	252.280,133	8.495.620,013
760+0,000	252.279,817	8.495.640,010
761+0,000	252.279,500	8.495.660,008
762+0,000	252.279,183	8.495.680,005
763+0,000	252.278,867	8.495.700,003
764+0,000	252.278,550	8.495.720,000
765+0,000	252.278,234	8.495.739,998
766+0,000	252.277,917	8.495.759,995
767+0,000	252.277,601	8.495.779,993
768+0,000	252.277,284	8.495.799,990
769+0,000	252.276,968	8.495.819,988
770+0,000	252.276,651	8.495.839,985
771+0,000	252.276,334	8.495.859,983
772+0,000	252.276,018	8.495.879,980
773+0,000	252.275,701	8.495.899,978
774+0,000	252.275,385	8.495.919,975
775+0,000	252.275,068	8.495.939,973
776+0,000	252.274,752	8.495.959,970
777+0,000	252.274,435	8.495.979,968
778+0,000	252.274,119	8.495.999,965
779+0,000	252.273,802	8.496.019,962
780+0,000	252.273,486	8.496.039,960
781+0,000	252.273,169	8.496.059,957
782+0,000	252.272,852	8.496.079,955
783+0,000	252.272,536	8.496.099,952

Estaca	Este	Norte
784+0,000	252.272,219	8.496.119,950
785+0,000	252.271,903	8.496.139,947
786+0,000	252.271,586	8.496.159,945
787+0,000	252.271,270	8.496.179,942
788+0,000	252.270,953	8.496.199,940
789+0,000	252.270,637	8.496.219,937
790+0,000	252.270,320	8.496.239,935
791+0,000	252.270,003	8.496.259,932
792+0,000	252.269,687	8.496.279,930
793+0,000	252.269,370	8.496.299,927
794+0,000	252.269,054	8.496.319,925
795+0,000	252.268,737	8.496.339,922
796+0,000	252.268,421	8.496.359,920
797+0,000	252.268,104	8.496.379,917
798+0,000	252.267,788	8.496.399,915
799+0,000	252.267,471	8.496.419,912
800+0,000	252.267,155	8.496.439,910
801+0,000	252.266,838	8.496.459,907
802+0,000	252.266,521	8.496.479,905
803+0,000	252.266,205	8.496.499,902
804+0,000	252.265,888	8.496.519,900
805+0,000	252.265,572	8.496.539,897
806+0,000	252.265,255	8.496.559,895
807+0,000	252.264,939	8.496.579,892
808+0,000	252.264,622	8.496.599,890
809+0,000	252.264,306	8.496.619,887
810+0,000	252.263,989	8.496.639,885
811+0,000	252.263,672	8.496.659,882
812+0,000	252.263,356	8.496.679,880
813+0,000	252.263,039	8.496.699,877
814+0,000	252.262,723	8.496.719,875
815+0,000	252.262,406	8.496.739,872
816+0,000	252.262,090	8.496.759,870
817+0,000	252.261,773	8.496.779,867
818+0,000	252.261,457	8.496.799,865
819+0,000	252.261,140	8.496.819,862
820+0,000	252.260,824	8.496.839,860
821+0,000	252.260,507	8.496.859,857
822+0,000	252.260,190	8.496.879,855
823+0,000	252.259,874	8.496.899,852
824+0,000	252.259,557	8.496.919,850
825+0,000	252.259,241	8.496.939,847
826+0,000	252.258,924	8.496.959,845
827+0,000	252.258,608	8.496.979,842
828+0,000	252.258,291	8.496.999,840
829+0,000	252.257,975	8.497.019,837
830+0,000	252.257,658	8.497.039,835
831+0,000	252.257,341	8.497.059,832
832+0,000	252.257,025	8.497.079,830

Estaca	Este	Norte
833+0,000	252.256,708	8.497.099,827
834+0,000	252.256,392	8.497.119,825
835+0,000	252.256,075	8.497.139,822
836+0,000	252.255,759	8.497.159,820
837+0,000	252.255,442	8.497.179,817
838+0,000	252.255,126	8.497.199,815
839+0,000	252.254,809	8.497.219,812
840+0,000	252.254,493	8.497.239,810
841+0,000	252.254,176	8.497.259,807
842+0,000	252.253,859	8.497.279,805
843+0,000	252.253,543	8.497.299,802
844+0,000	252.253,226	8.497.319,800
845+0,000	252.252,910	8.497.339,797
846+0,000	252.252,593	8.497.359,795
847+0,000	252.252,277	8.497.379,792
848+0,000	252.251,960	8.497.399,790
849+0,000	252.251,644	8.497.419,787
850+0,000	252.251,327	8.497.439,785
851+0,000	252.251,010	8.497.459,782
852+0,000	252.250,694	8.497.479,780
853+0,000	252.250,377	8.497.499,777
854+0,000	252.250,061	8.497.519,775
855+0,000	252.249,744	8.497.539,772
856+0,000	252.249,428	8.497.559,770
857+0,000	252.249,111	8.497.579,767
858+0,000	252.248,795	8.497.599,765
859+0,000	252.248,478	8.497.619,762
860+0,000	252.248,162	8.497.639,760
861+0,000	252.247,845	8.497.659,757
862+0,000	252.247,528	8.497.679,755
863+0,000	252.247,212	8.497.699,752
864+0,000	252.246,895	8.497.719,750
865+0,000	252.246,579	8.497.739,747
866+0,000	252.246,262	8.497.759,745
867+0,000	252.245,946	8.497.779,742
868+0,000	252.245,629	8.497.799,740
869+0,000	252.245,313	8.497.819,737
870+0,000	252.244,996	8.497.839,735
871+0,000	252.244,679	8.497.859,732
872+0,000	252.244,363	8.497.879,730
873+0,000	252.244,046	8.497.899,727
874+0,000	252.243,730	8.497.919,724
875+0,000	252.243,413	8.497.939,722
876+0,000	252.243,097	8.497.959,719
877+0,000	252.242,780	8.497.979,717
878+0,000	252.242,464	8.497.999,714
879+0,000	252.242,147	8.498.019,712
880+0,000	252.241,831	8.498.039,709
881+0,000	252.241,514	8.498.059,707

Estaca	Este	Norte
882+0,000	252.241,197	8.498.079,704
883+0,000	252.240,881	8.498.099,702
884+0,000	252.240,564	8.498.119,699
885+0,000	252.240,248	8.498.139,697
886+0,000	252.239,931	8.498.159,694
887+0,000	252.239,615	8.498.179,692
888+0,000	252.239,298	8.498.199,689
889+0,000	252.238,982	8.498.219,687
890+0,000	252.238,665	8.498.239,684
891+0,000	252.238,348	8.498.259,682
892+0,000	252.238,032	8.498.279,679
893+0,000	252.237,715	8.498.299,677
894+0,000	252.237,399	8.498.319,674
895+0,000	252.237,082	8.498.339,672
896+0,000	252.236,766	8.498.359,669
897+0,000	252.236,449	8.498.379,667
898+0,000	252.236,133	8.498.399,664
899+0,000	252.235,812	8.498.419,662
900+0,000	252.235,491	8.498.439,659
901+0,000	252.235,171	8.498.459,657
902+0,000	252.234,850	8.498.479,654
903+0,000	252.234,530	8.498.499,652
904+0,000	252.234,209	8.498.519,649
905+0,000	252.233,889	8.498.539,646
906+0,000	252.233,568	8.498.559,644
907+0,000	252.233,247	8.498.579,641
908+0,000	252.232,927	8.498.599,639
909+0,000	252.232,606	8.498.619,636
910+0,000	252.232,286	8.498.639,634
911+0,000	252.231,965	8.498.659,631
912+0,000	252.231,644	8.498.679,628
913+0,000	252.231,324	8.498.699,626
914+0,000	252.231,003	8.498.719,623
915+0,000	252.230,683	8.498.739,621
916+0,000	252.230,362	8.498.759,618
917+0,000	252.230,042	8.498.779,616
918+0,000	252.229,721	8.498.799,613
919+0,000	252.229,400	8.498.819,610
920+0,000	252.229,080	8.498.839,608
921+0,000	252.228,759	8.498.859,605
922+0,000	252.228,439	8.498.879,603
923+0,000	252.228,118	8.498.899,600
924+0,000	252.227,797	8.498.919,598
925+0,000	252.227,477	8.498.939,595
926+0,000	252.227,156	8.498.959,592
927+0,000	252.226,836	8.498.979,590
928+0,000	252.226,515	8.498.999,587
929+0,000	252.226,195	8.499.019,585
930+0,000	252.225,874	8.499.039,582

Estaca	Este	Norte
931+0,000	252.225,553	8.499.059,580
932+0,000	252.225,233	8.499.079,577
933+0,000	252.224,912	8.499.099,574
934+0,000	252.224,592	8.499.119,572
935+0,000	252.224,271	8.499.139,569
936+0,000	252.223,950	8.499.159,567
937+0,000	252.223,630	8.499.179,564
938+0,000	252.223,309	8.499.199,562
939+0,000	252.222,989	8.499.219,559
940+0,000	252.222,668	8.499.239,556
941+0,000	252.222,348	8.499.259,554
942+0,000	252.222,027	8.499.279,551
943+0,000	252.221,706	8.499.299,549
944+0,000	252.221,386	8.499.319,546
945+0,000	252.221,065	8.499.339,544
946+0,000	252.220,745	8.499.359,541
947+0,000	252.220,424	8.499.379,538
948+0,000	252.220,103	8.499.399,536
949+0,000	252.219,783	8.499.419,533
950+0,000	252.219,462	8.499.439,531
951+0,000	252.219,142	8.499.459,528
952+0,000	252.218,821	8.499.479,526
953+0,000	252.218,500	8.499.499,523
954+0,000	252.218,180	8.499.519,520
955+0,000	252.217,859	8.499.539,518
956+0,000	252.217,539	8.499.559,515
957+0,000	252.217,218	8.499.579,513
958+0,000	252.216,898	8.499.599,510
959+0,000	252.216,577	8.499.619,508
960+0,000	252.216,256	8.499.639,505
961+0,000	252.215,936	8.499.659,502
962+0,000	252.215,615	8.499.679,500
963+0,000	252.215,295	8.499.699,497
964+0,000	252.214,974	8.499.719,495
965+0,000	252.214,653	8.499.739,492
966+0,000	252.214,333	8.499.759,490
967+0,000	252.214,012	8.499.779,487
968+0,000	252.213,692	8.499.799,485
969+0,000	252.213,371	8.499.819,482
970+0,000	252.213,051	8.499.839,479
971+0,000	252.212,730	8.499.859,477
972+0,000	252.212,409	8.499.879,474
973+0,000	252.212,089	8.499.899,472
974+0,000	252.211,768	8.499.919,469
975+0,000	252.211,448	8.499.939,467
976+0,000	252.211,127	8.499.959,464
977+0,000	252.210,806	8.499.979,461
978+0,000	252.210,486	8.499.999,459
979+0,000	252.210,165	8.500.019,456

Estaca	Este	Norte
980+0,000	252.209,845	8.500.039,454
981+0,000	252.209,524	8.500.059,451
982+0,000	252.209,204	8.500.079,449
983+0,000	252.208,883	8.500.099,446
984+0,000	252.208,562	8.500.119,443
985+0,000	252.208,242	8.500.139,441
986+0,000	252.207,921	8.500.159,438
987+0,000	252.207,601	8.500.179,436
988+0,000	252.207,280	8.500.199,433
989+0,000	252.206,959	8.500.219,431
990+0,000	252.206,639	8.500.239,428
991+0,000	252.206,318	8.500.259,425
992+0,000	252.205,998	8.500.279,423
993+0,000	252.205,677	8.500.299,420
994+0,000	252.205,357	8.500.319,418
995+0,000	252.205,036	8.500.339,415
996+0,000	252.204,711	8.500.359,412
997+0,000	252.204,372	8.500.379,410
998+0,000	252.204,033	8.500.399,407
999+0,000	252.203,694	8.500.419,404
1000+0,000	252.203,354	8.500.439,401
1001+0,000	252.203,015	8.500.459,398
1002+0,000	252.202,676	8.500.479,395
1003+0,000	252.202,337	8.500.499,392
1004+0,000	252.201,997	8.500.519,389
1005+0,000	252.201,658	8.500.539,387
1006+0,000	252.201,319	8.500.559,384
1007+0,000	252.200,979	8.500.579,381
1008+0,000	252.200,640	8.500.599,378
1009+0,000	252.200,301	8.500.619,375
1010+0,000	252.199,962	8.500.639,372
1011+0,000	252.199,622	8.500.659,369
1012+0,000	252.199,283	8.500.679,366
1013+0,000	252.198,944	8.500.699,364
1014+0,000	252.198,605	8.500.719,361
1015+0,000	252.198,265	8.500.739,358
1016+0,000	252.197,926	8.500.759,355
1017+0,000	252.197,587	8.500.779,352
1018+0,000	252.197,248	8.500.799,349
1019+0,000	252.196,908	8.500.819,346
1020+0,000	252.196,569	8.500.839,343
1021+0,000	252.196,230	8.500.859,341
1022+0,000	252.195,890	8.500.879,338
1023+0,000	252.195,551	8.500.899,335
1024+0,000	252.195,212	8.500.919,332
1025+0,000	252.194,873	8.500.939,329
1026+0,000	252.194,533	8.500.959,326
1027+0,000	252.194,194	8.500.979,323
1028+0,000	252.193,855	8.500.999,320

Estaca	Este	Norte
1029+0,000	252.193,516	8.501.019,318
1030+0,000	252.193,176	8.501.039,315
1031+0,000	252.192,837	8.501.059,312
1032+0,000	252.192,498	8.501.079,309
1033+0,000	252.192,158	8.501.099,306
1034+0,000	252.191,819	8.501.119,303
1035+0,000	252.191,480	8.501.139,300
1036+0,000	252.191,141	8.501.159,297
1037+0,000	252.190,801	8.501.179,295
1038+0,000	252.190,462	8.501.199,292
1039+0,000	252.190,123	8.501.219,289
1040+0,000	252.189,784	8.501.239,286
1041+0,000	252.189,444	8.501.259,283
1042+0,000	252.189,105	8.501.279,280
1043+0,000	252.188,766	8.501.299,277
1044+0,000	252.188,427	8.501.319,274
1045+0,000	252.188,087	8.501.339,271
1046+0,000	252.187,748	8.501.359,269
1047+0,000	252.187,409	8.501.379,266
1048+0,000	252.187,069	8.501.399,263
1049+0,000	252.186,730	8.501.419,260
1050+0,000	252.186,391	8.501.439,257
1051+0,000	252.186,052	8.501.459,254
1052+0,000	252.185,712	8.501.479,251
1053+0,000	252.185,373	8.501.499,248
1054+0,000	252.185,034	8.501.519,246
1055+0,000	252.184,695	8.501.539,243
1056+0,000	252.184,355	8.501.559,240
1057+0,000	252.184,016	8.501.579,237
1058+0,000	252.183,677	8.501.599,234
1059+0,000	252.183,337	8.501.619,231
1060+0,000	252.182,998	8.501.639,228
1061+0,000	252.182,659	8.501.659,225
1062+0,000	252.182,320	8.501.679,223
1063+0,000	252.181,980	8.501.699,220
1064+0,000	252.181,641	8.501.719,217
1065+0,000	252.181,302	8.501.739,214
1066+0,000	252.180,963	8.501.759,211
1067+0,000	252.180,623	8.501.779,208
1068+0,000	252.180,284	8.501.799,205
1069+0,000	252.179,945	8.501.819,202
1070+0,000	252.179,606	8.501.839,200
1071+0,000	252.179,266	8.501.859,197
1072+0,000	252.178,927	8.501.879,194

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
0+0,000	0,000	0,120	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
1+0,000	10,000	0,000	6,710	1,170	1,170	55,080	11,990	67,070	67,070	-65,900
2+0,000	10,000	0,000	9,490	0,000	1,170	114,820	47,110	161,930	229,000	-227,830
3+0,000	10,000	0,000	8,880	0,000	1,170	119,730	63,940	183,670	412,670	-411,500
4+0,000	10,000	0,000	7,540	0,000	1,170	120,000	44,220	164,220	576,890	-575,720
5+0,000	10,000	0,000	7,440	0,000	1,170	119,030	30,780	149,810	726,700	-725,530
6+0,000	10,000	0,000	7,240	0,000	1,170	118,180	28,580	146,760	873,460	-872,290
7+0,000	10,000	0,000	5,980	0,000	1,170	112,900	19,310	132,210	1.005,670	-1.004,500
8+0,000	10,000	0,000	4,690	0,000	1,170	97,080	9,640	106,720	1.112,390	-1.111,220
9+0,000	10,000	0,000	3,450	0,000	1,170	75,330	6,040	81,370	1.193,760	-1.192,590
10+0,000	10,000	0,000	3,000	0,000	1,170	60,880	3,560	64,440	1.258,200	-1.257,030
11+0,000	10,000	0,000	0,950	0,000	1,170	38,060	1,380	39,440	1.297,640	-1.296,470
12+0,000	10,000	1,370	0,000	13,730	14,900	9,180	0,330	9,510	1.307,150	-1.292,250
13+0,000	10,000	5,260	0,000	66,340	81,240	0,020	0,000	0,020	1.307,170	-1.225,930
14+0,000	10,000	0,750	0,090	60,090	141,330	0,830	0,060	0,890	1.308,060	-1.166,730
15+0,000	10,000	0,000	1,670	7,480	148,810	17,110	0,520	17,630	1.325,690	-1.176,880
16+0,000	10,000	0,000	2,660	0,000	148,810	41,960	1,360	43,320	1.369,010	-1.220,200
17+0,000	10,000	0,000	2,750	0,000	148,810	51,970	2,070	54,040	1.423,050	-1.274,240
18+0,000	10,000	0,000	2,720	0,000	148,810	52,540	2,130	54,670	1.477,720	-1.328,910
19+0,000	10,000	0,000	2,050	0,000	148,810	46,000	1,690	47,690	1.525,410	-1.376,600
20+0,000	10,000	0,000	2,500	0,000	148,810	43,750	1,770	45,520	1.570,930	-1.422,120
21+0,000	10,000	0,000	2,570	0,000	148,810	48,580	2,150	50,730	1.621,660	-1.472,850
22+0,000	10,000	0,000	2,480	0,000	148,810	48,630	1,840	50,470	1.672,130	-1.523,320
23+0,000	10,000	0,000	2,730	0,000	148,810	50,430	1,660	52,090	1.724,220	-1.575,410
24+0,000	10,000	0,000	3,410	0,000	148,810	59,310	2,130	61,440	1.785,660	-1.636,850
25+0,000	10,000	0,000	2,450	0,000	148,810	56,390	2,200	58,590	1.844,250	-1.695,440
26+0,000	10,000	0,000	2,240	0,000	148,810	45,000	1,850	46,850	1.891,100	-1.742,290
27+0,000	10,000	0,000	2,070	0,000	148,810	41,540	1,600	43,140	1.934,240	-1.785,430
28+0,000	10,000	1,050	0,000	10,460	159,270	19,990	0,760	20,750	1.954,990	-1.795,720
29+0,000	10,000	4,610	0,000	56,570	215,840	0,000	0,000	0,000	1.954,990	-1.739,150
30+0,000	10,000	4,300	0,000	89,140	304,980	0,000	0,000	0,000	1.954,990	-1.650,010
31+0,000	10,000	0,000	1,350	43,040	348,020	13,170	0,330	13,500	1.968,490	-1.620,470
32+0,000	10,000	0,000	2,610	0,000	348,020	38,140	1,430	39,570	2.008,060	-1.660,040
33+0,000	10,000	0,000	3,240	0,000	348,020	56,060	2,450	58,510	2.066,570	-1.718,550
34+0,000	10,000	0,000	3,720	0,000	348,020	66,660	2,940	69,600	2.136,170	-1.788,150
35+0,000	10,000	0,000	4,370	0,000	348,020	76,620	4,220	80,840	2.217,010	-1.868,990
36+0,000	10,000	0,000	5,580	0,000	348,020	93,460	5,980	99,440	2.316,450	-1.968,430
37+0,000	10,000	0,000	5,790	0,000	348,020	106,240	7,400	113,640	2.430,090	-2.082,070
38+0,000	10,000	0,000	6,000	0,000	348,020	109,680	8,180	117,860	2.547,950	-2.199,930
39+0,000	10,000	0,000	6,160	0,000	348,020	112,750	8,830	121,580	2.669,530	-2.321,510
40+0,000	10,000	0,000	6,400	0,000	348,020	114,870	10,750	125,620	2.795,150	-2.447,130
41+0,000	10,000	0,000	6,700	0,000	348,020	117,050	13,930	130,980	2.926,130	-2.578,110
42+0,000	10,000	0,000	6,880	0,000	348,020	118,860	16,860	135,720	3.061,850	-2.713,830
43+0,000	10,000	0,000	6,510	0,000	348,020	118,880	14,960	133,840	3.195,690	-2.847,670
44+0,000	10,000	0,000	6,430	0,000	348,020	116,590	12,810	129,400	3.325,090	-2.977,070
45+0,000	10,000	0,000	3,800	0,000	348,020	93,420	8,880	102,300	3.427,390	-3.079,370
46+0,000	10,000	0,000	1,180	0,000	348,020	47,530	2,290	49,820	3.477,210	-3.129,190
47+0,000	10,000	0,000	1,990	0,000	348,020	30,520	1,180	31,700	3.508,910	-3.160,890
48+0,000	10,000	0,000	6,830	0,000	348,020	76,570	11,560	88,130	3.597,040	-3.249,020
49+0,000	10,000	0,000	7,850	0,000	348,020	117,670	29,110	146,780	3.743,820	-3.395,800
50+0,000	10,000	0,000	7,990	0,000	348,020	120,000	38,390	158,390	3.902,210	-3.554,190
51+0,000	10,000	0,000	8,410	0,000	348,020	120,000	43,960	163,960	4.066,170	-3.718,150
52+0,000	10,000	0,000	8,670	0,000	348,020	120,000	50,760	170,760	4.236,930	-3.888,910
53+0,000	10,000	0,000	8,860	0,000	348,020	120,000	55,250	175,250	4.412,180	-4.064,160
54+0,000	10,000	0,000	8,950	0,000	348,020	120,000	58,030	178,030	4.590,210	-4.242,190
55+0,000	10,000	0,000	9,160	0,000	348,020	119,990	61,050	181,040	4.771,250	-4.423,230
56+0,000	10,000	0,000	8,950	0,000	348,020	120,000	61,080	181,080	4.952,330	-4.604,310
57+0,000	10,000	0,000	9,250	0,000	348,020	119,990	62,020	182,010	5.134,340	-4.786,320
58+0,000	10,000	0,000	9,600	0,000	348,020	120,000	68,510	188,510	5.322,850	-4.974,830
58+2,642	1,320	0,000	9,670	0,000	348,020	15,850	9,600	25,450	5.348,300	-5.000,280
59+0,000	8,680	0,000	9,960	0,000	348,020	104,140	66,170	170,310	5.518,610	-5.170,590


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
CREA-MT 1205190473


Corresponsável
Fabricio Henrique Eufrazio Segura
Engenheiro Civil
CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu

Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		Vol. Acum. Aterro (m³)
60+0,000	10,000	0,000	6,540	0,000	348,020	118,060	46,860	164,920	5.683,530	-5.335,510
61+0,000	10,000	0,000	3,170	0,000	348,020	87,650	9,400	97,050	5.780,580	-5.432,560
62+0,000	10,000	0,000	3,360	0,000	348,020	60,960	4,280	65,240	5.845,820	-5.497,800
63+0,000	10,000	0,000	9,210	0,000	348,020	91,370	34,300	125,670	5.971,490	-5.623,470
64+0,000	10,000	0,000	10,730	0,000	348,020	119,990	79,450	199,440	6.170,930	-5.822,910
65+0,000	10,000	0,000	10,550	0,000	348,020	120,000	92,780	212,780	6.383,710	-6.035,690
66+0,000	10,000	0,000	10,110	0,000	348,020	119,990	86,530	206,520	6.590,230	-6.242,210
67+0,000	10,000	0,000	9,570	0,000	348,020	119,990	76,800	196,790	6.787,020	-6.439,000
68+0,000	10,000	0,000	9,350	0,000	348,020	120,000	69,190	189,190	6.976,210	-6.628,190
69+0,000	10,000	0,000	9,150	0,000	348,020	120,000	64,950	184,950	7.161,160	-6.813,140
70+0,000	10,000	0,000	9,050	0,000	348,020	120,000	61,950	181,950	7.343,110	-6.995,090
71+0,000	10,000	0,000	8,980	0,000	348,020	120,000	60,320	180,320	7.523,430	-7.175,410
72+0,000	10,000	0,000	8,990	0,000	348,020	120,000	59,780	179,780	7.703,210	-7.355,190
73+0,000	10,000	0,000	8,840	0,000	348,020	120,000	58,290	178,290	7.881,500	-7.533,480
74+0,000	10,000	0,000	8,510	0,000	348,020	120,000	53,480	173,480	8.054,980	-7.706,960
75+0,000	10,000	0,000	8,010	0,000	348,020	120,000	45,240	165,240	8.220,220	-7.872,200
76+0,000	10,000	0,000	7,850	0,000	348,020	119,990	38,610	158,600	8.378,820	-8.030,800
77+0,000	10,000	0,000	7,870	0,000	348,020	119,860	37,340	157,200	8.536,020	-8.188,000
78+0,000	10,000	0,000	8,310	0,000	348,020	119,880	41,960	161,840	8.697,860	-8.349,840
79+0,000	10,000	0,000	5,150	0,000	348,020	107,050	27,520	134,570	8.832,430	-8.484,410
80+0,000	10,000	0,000	2,210	0,000	348,020	68,150	5,400	73,550	8.905,980	-8.557,960
81+0,000	10,000	0,000	2,650	0,000	348,020	46,200	2,430	48,630	8.954,610	-8.606,590
82+0,000	10,000	0,000	6,850	0,000	348,020	82,650	12,430	95,080	9.049,690	-8.701,670
82+16,468	8,230	0,000	6,330	0,000	348,020	92,690	15,880	108,570	9.158,260	-8.810,240
82+19,550	1,540	0,000	6,230	0,000	348,020	16,830	2,530	19,360	9.177,620	-8.829,600
83+0,000	0,230	0,000	6,220	0,000	348,020	2,430	0,370	2,800	9.180,420	-8.832,400
83+7,248	3,620	0,000	5,820	0,000	348,020	38,320	5,290	43,610	9.224,030	-8.876,010
83+8,351	0,550	0,000	5,760	0,000	348,020	5,690	0,700	6,390	9.230,420	-8.882,400
83+12,361	2,000	0,000	5,530	0,000	348,020	20,290	2,330	22,620	9.253,040	-8.905,020
83+16,538	2,090	0,000	5,290	0,000	348,020	20,520	2,070	22,590	9.275,630	-8.927,610
83+18,516	0,990	0,000	5,170	0,000	348,020	9,480	0,870	10,350	9.285,980	-8.937,960
84+0,000	0,740	0,000	5,060	0,000	348,020	6,990	0,610	7,600	9.293,580	-8.945,560
84+6,501	3,250	0,000	4,690	0,000	348,020	29,310	2,370	31,680	9.325,260	-8.977,240
85+0,000	6,750	0,000	4,050	0,000	348,020	54,930	4,070	59,000	9.384,260	-9.036,240
85+3,939	1,970	0,000	3,690	0,000	348,020	14,240	1,010	15,250	9.399,510	-9.051,490
86+0,000	8,030	0,000	3,480	0,000	348,020	53,950	2,480	56,430	9.455,940	-9.107,920
87+0,000	10,000	0,000	2,930	0,000	348,020	62,880	0,950	63,830	9.519,770	-9.171,750
87+3,338	1,670	0,000	2,710	0,000	348,020	9,530	0,120	9,650	9.529,420	-9.181,400
87+5,791	1,230	0,000	2,780	0,000	348,020	6,810	0,120	6,930	9.536,350	-9.188,330
88+0,000	7,100	0,020	2,680	0,160	348,180	38,690	0,420	39,110	9.575,460	-9.227,280
89+0,000	10,000	0,000	1,630	0,220	348,400	41,800	0,660	42,460	9.617,920	-9.269,520
89+2,736	1,370	0,000	1,680	0,000	348,400	4,310	0,130	4,440	9.622,360	-9.273,960
90+0,000	8,630	0,000	2,410	0,000	348,400	34,090	1,260	35,350	9.657,710	-9.309,310
91+0,000	10,000	0,000	3,430	0,000	348,400	55,570	2,880	58,450	9.716,160	-9.367,760
92+0,000	10,000	0,000	3,860	0,000	348,400	68,230	4,680	72,910	9.789,070	-9.440,670
93+0,000	10,000	0,000	4,120	0,000	348,400	74,500	5,270	79,770	9.868,840	-9.520,440
94+0,000	10,000	0,000	4,590	0,000	348,400	81,630	5,460	87,090	9.955,930	-9.607,530
95+0,000	10,000	0,000	4,350	0,000	348,400	84,100	5,310	89,410	10.045,340	-9.696,940
96+0,000	10,000	0,000	4,140	0,000	348,400	80,410	4,480	84,890	10.130,230	-9.781,830
97+0,000	10,000	0,000	4,200	0,000	348,400	79,280	4,090	83,370	10.213,600	-9.865,200
98+0,000	10,000	0,000	3,690	0,000	348,400	74,930	3,930	78,860	10.292,460	-9.944,060
99+0,000	10,000	0,000	3,760	0,000	348,400	70,450	3,980	74,430	10.366,890	-10.018,490
100+0,000	10,000	0,000	3,950	0,000	348,400	72,550	4,520	77,070	10.443,960	-10.095,560
101+0,000	10,000	0,000	4,150	0,000	348,400	75,700	5,270	80,970	10.524,930	-10.176,530
102+0,000	10,000	0,000	1,560	0,000	348,400	53,720	3,300	57,020	10.581,950	-10.233,550
103+0,000	10,000	0,670	0,030	6,680	355,080	15,420	0,500	15,920	10.597,870	-10.242,790
104+0,000	10,000	0,000	2,480	6,680	361,760	24,140	0,990	25,130	10.623,000	-10.261,240
105+0,000	10,000	0,000	3,940	0,000	361,760	61,460	2,710	64,170	10.687,170	-10.325,410
106+0,000	10,000	0,000	3,600	0,000	361,760	72,160	3,270	75,430	10.762,600	-10.400,840
107+0,000	10,000	0,000	3,790	0,000	361,760	70,950	2,940	73,890	10.836,490	-10.474,730
108+0,000	10,000	0,000	4,290	0,000	361,760	76,710	4,090	80,800	10.917,290	-10.555,530


Responsável técnica
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Corresponsável
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CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
109+0,000	10,000	0,000	5,330	0,000	361,760	89,910	6,300	96,210	11.013,500	-10.651,740
110+0,000	10,000	0,000	5,710	0,000	361,760	100,980	9,360	110,340	11.123,840	-10.762,080
111+0,000	10,000	0,000	6,160	0,000	361,760	105,640	13,080	118,720	11.242,560	-10.880,800
112+0,000	10,000	0,000	6,340	0,000	361,760	109,810	15,220	125,030	11.367,590	-11.005,830
113+0,000	10,000	0,000	5,850	0,000	361,760	110,000	11,880	121,880	11.489,470	-11.127,710
114+0,000	10,000	0,000	5,980	0,000	361,760	108,950	9,370	118,320	11.607,790	-11.246,030
115+0,000	10,000	0,000	6,500	0,000	361,760	109,800	15,050	124,850	11.732,640	-11.370,880
116+0,000	10,000	0,000	6,540	0,000	361,760	112,500	17,890	130,390	11.863,030	-11.501,270
117+0,000	10,000	0,000	6,110	0,000	361,760	112,960	13,520	126,480	11.989,510	-11.627,750
118+0,000	10,000	0,000	5,900	0,000	361,760	109,980	10,170	120,150	12.109,660	-11.747,900
119+0,000	10,000	0,000	2,990	0,000	361,760	82,180	6,760	88,940	12.198,600	-11.836,840
120+0,000	10,000	0,370	0,000	3,680	365,440	28,050	1,910	29,960	12.228,560	-11.863,120
121+0,000	10,000	0,420	0,000	7,830	373,270	0,060	0,000	0,060	12.228,620	-11.855,350
122+0,000	10,000	0,000	5,220	4,160	377,430	47,830	4,400	52,230	12.280,850	-11.903,420
123+0,000	10,000	0,000	5,830	0,000	377,430	101,170	9,380	110,550	12.391,400	-11.912,970
124+0,000	10,000	0,000	5,720	0,000	377,430	106,340	9,200	115,540	12.506,940	-12.129,510
125+0,000	10,000	0,000	6,400	0,000	377,430	109,620	11,550	121,170	12.628,110	-12.250,680
126+0,000	10,000	0,000	4,900	0,000	377,430	101,430	11,520	112,950	12.741,060	-12.363,630
127+0,000	10,000	0,000	5,090	0,000	377,430	91,570	8,350	99,920	12.840,980	-12.463,550
128+0,000	10,000	0,000	5,430	0,000	377,430	96,220	9,000	105,220	12.946,200	-12.568,770
128+2,090	1,040	0,000	5,410	0,000	377,430	10,320	1,010	11,330	12.957,530	-12.580,100
128+2,092	0,000	0,000	5,410	0,000	377,430	0,010	0,000	0,010	12.957,540	-12.580,110
129+0,000	8,950	0,000	4,640	0,000	377,430	82,200	7,790	89,990	13.047,530	-12.670,100
130+0,000	10,000	0,000	5,820	0,000	377,430	97,230	7,380	104,610	13.152,140	-12.774,710
131+0,000	10,000	0,000	5,480	0,000	377,430	106,570	6,420	112,990	13.265,130	-12.887,700
132+0,000	10,000	0,000	4,380	0,000	377,430	92,720	5,850	98,570	13.363,700	-12.986,270
133+0,000	10,000	0,000	4,740	0,000	377,430	85,530	5,710	91,240	13.454,940	-13.077,510
134+0,000	10,000	0,000	4,280	0,000	377,430	84,950	5,310	90,260	13.545,200	-13.167,770
135+0,000	10,000	0,000	4,410	0,000	377,430	81,300	5,640	86,940	13.632,140	-13.254,710
136+0,000	10,000	0,000	3,830	0,000	377,430	76,970	5,440	82,410	13.714,550	-13.337,120
137+0,000	10,000	0,000	1,340	0,000	377,430	48,960	2,680	51,640	13.766,190	-13.388,760
138+0,000	10,000	1,930	0,000	19,340	396,770	13,020	0,340	13,360	13.779,550	-13.382,780
139+0,000	10,000	3,370	0,000	53,080	449,850	0,000	0,000	0,000	13.779,550	-13.329,700
140+0,000	10,000	0,000	2,340	33,750	483,600	21,740	1,640	23,380	13.802,930	-13.319,330
141+0,000	10,000	0,000	2,440	0,000	483,600	45,330	2,500	47,830	13.850,760	-13.367,160
142+0,000	10,000	0,000	3,180	0,000	483,600	53,970	2,240	56,210	13.906,970	-13.423,370
143+0,000	10,000	0,000	4,740	0,000	483,600	75,640	3,570	79,210	13.986,180	-13.502,580
144+0,000	10,000	0,000	2,570	0,000	483,600	70,350	2,840	73,190	14.059,370	-13.575,770
145+0,000	10,000	0,000	2,270	0,000	483,600	46,950	1,490	48,440	14.107,810	-13.624,210
146+0,000	10,000	0,000	2,120	0,000	483,600	42,410	1,530	43,940	14.151,750	-13.668,150
147+0,000	10,000	0,000	2,370	0,000	483,600	43,500	1,450	44,950	14.196,700	-13.713,100
148+0,000	10,000	0,000	2,840	0,000	483,600	50,270	1,870	52,140	14.248,840	-13.765,240
149+0,000	10,000	0,000	2,940	0,000	483,600	55,490	2,320	57,810	14.306,650	-13.823,050
150+0,000	10,000	0,000	3,170	0,000	483,600	58,520	2,540	61,060	14.367,710	-13.884,110
151+0,000	10,000	0,000	3,240	0,000	483,600	61,530	2,520	64,050	14.431,760	-13.948,160
152+0,000	10,000	0,000	3,220	0,000	483,600	62,300	2,300	64,600	14.496,360	-14.012,760
153+0,000	10,000	0,000	3,630	0,000	483,600	66,450	2,090	68,540	14.564,900	-14.081,300
154+0,000	10,000	0,000	3,140	0,000	483,600	65,120	2,620	67,740	14.632,640	-14.149,040
155+0,000	10,000	0,000	1,350	0,000	483,600	42,450	2,490	44,940	14.677,580	-14.193,980
156+0,000	10,000	3,780	0,000	37,830	521,430	12,630	0,860	13,490	14.691,070	-14.169,640
157+0,000	10,000	0,260	0,060	40,460	561,890	0,620	0,000	0,620	14.691,690	-14.129,800
158+0,000	10,000	0,000	3,580	2,630	564,520	35,050	1,330	36,380	14.728,070	-14.163,550
159+0,000	10,000	0,000	4,090	0,000	564,520	73,240	3,440	76,680	14.804,750	-14.240,230
160+0,000	10,000	0,000	3,710	0,000	564,520	74,000	4,050	78,050	14.882,800	-14.318,280
161+0,000	10,000	0,000	4,190	0,000	564,520	75,040	3,950	78,990	14.961,790	-14.397,270
162+0,000	10,000	0,000	3,570	0,000	564,520	73,310	4,290	77,600	15.039,390	-14.474,870
163+0,000	10,000	0,000	3,860	0,000	564,520	70,990	3,370	74,360	15.113,750	-14.549,230
164+0,000	10,000	0,000	5,190	0,000	564,520	84,990	5,540	90,530	15.204,280	-14.639,760
165+0,000	10,000	0,000	5,880	0,000	564,520	98,230	12,460	110,690	15.314,970	-14.750,450
166+0,000	10,000	0,000	6,090	0,000	564,520	104,770	14,900	119,670	15.434,640	-14.870,120
167+0,000	10,000	0,000	5,410	0,000	564,520	103,300	11,700	115,000	15.549,640	-14.985,120


Responsável técnica
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CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		Vol. Acum. Aterro (m³)
168+0,000	10,000	0,000	4,860	0,000	564,520	95,360	7,330	102,690	15.652,330	-15.087,810
169+0,000	10,000	0,000	4,770	0,000	564,520	91,860	4,460	96,320	15.748,650	-15.184,130
170+0,000	10,000	0,000	3,350	0,000	564,520	78,020	3,180	81,200	15.829,850	-15.265,330
171+0,000	10,000	0,500	0,030	5,030	569,550	32,490	1,250	33,740	15.863,590	-15.294,040
172+0,000	10,000	2,390	0,000	28,890	598,440	0,280	0,000	0,280	15.863,870	-15.265,430
173+0,000	10,000	0,660	0,060	30,460	628,900	0,590	0,040	0,630	15.864,500	-15.235,600
174+0,000	10,000	0,640	0,410	12,980	641,880	4,420	0,260	4,680	15.869,180	-15.227,300
175+0,000	10,000	0,000	1,830	6,370	648,250	20,950	1,450	22,400	15.891,580	-15.243,330
175+8,200	4,100	0,000	2,080	0,000	648,250	15,070	0,970	16,040	15.907,620	-15.259,370
175+8,204	0,000	0,000	2,080	0,000	648,250	0,000	0,000	0,000	15.907,620	-15.259,370
176+0,000	5,900	0,000	2,410	0,000	648,250	25,000	1,490	26,490	15.934,110	-15.285,860
177+0,000	10,000	0,000	2,570	0,000	648,250	47,160	2,640	49,800	15.983,910	-15.335,660
178+0,000	10,000	0,000	2,340	0,000	648,250	47,430	1,650	49,080	16.032,990	-15.384,740
179+0,000	10,000	0,040	0,920	0,360	648,610	32,020	0,570	32,590	16.065,580	-15.416,970
180+0,000	10,000	0,000	2,360	0,360	648,970	31,750	1,030	32,780	16.098,360	-15.449,390
181+0,000	10,000	0,000	3,020	0,000	648,970	50,130	3,650	53,780	16.152,140	-15.503,170
182+0,000	10,000	0,000	3,090	0,000	648,970	55,780	5,330	61,110	16.213,250	-15.564,280
183+0,000	10,000	0,000	3,390	0,000	648,970	61,070	3,730	64,800	16.278,050	-15.629,080
184+0,000	10,000	0,000	3,910	0,000	648,970	69,780	3,220	73,000	16.351,050	-15.702,080
185+0,000	10,000	0,000	3,790	0,000	648,970	71,390	5,680	77,070	16.428,120	-15.779,150
186+0,000	10,000	0,000	3,170	0,000	648,970	62,660	7,000	69,660	16.497,780	-15.848,810
187+0,000	10,000	0,000	3,240	0,000	648,970	59,020	5,110	64,130	16.561,910	-15.912,940
188+0,000	10,000	0,000	3,710	0,000	648,970	65,750	3,760	69,510	16.631,420	-15.982,450
189+0,000	10,000	0,000	4,900	0,000	648,970	78,230	7,840	86,070	16.717,490	-16.068,520
190+0,000	10,000	0,000	4,340	0,000	648,970	82,110	10,260	92,370	16.809,860	-16.160,890
191+0,000	10,000	0,000	4,750	0,000	648,970	82,880	8,050	90,930	16.900,790	-16.251,820
192+0,000	10,000	0,000	5,530	0,000	648,970	93,980	8,800	102,780	17.003,570	-16.354,600
193+0,000	10,000	0,000	4,860	0,000	648,970	95,080	8,830	103,910	17.107,480	-16.458,510
194+0,000	10,000	0,000	4,410	0,000	648,970	85,890	6,900	92,790	17.200,270	-16.551,300
195+0,000	10,000	0,000	4,470	0,000	648,970	82,040	6,820	88,860	17.289,130	-16.640,160
196+0,000	10,000	0,000	4,660	0,000	648,970	82,050	9,240	91,290	17.380,420	-16.731,450
197+0,000	10,000	0,000	8,620	0,000	648,970	96,200	36,580	132,780	17.513,200	-16.864,230
198+0,000	10,000	0,000	5,640	0,000	648,970	107,900	34,710	142,610	17.655,810	-17.006,840
199+0,000	10,000	0,000	4,760	0,000	648,970	95,280	8,710	103,990	17.759,800	-17.110,830
200+0,000	10,000	0,000	3,530	0,000	648,970	75,500	7,340	82,840	17.842,640	-17.193,670
201+0,000	10,000	0,000	3,160	0,000	648,970	62,830	4,030	66,860	17.909,500	-17.260,530
202+0,000	10,000	0,000	2,980	0,000	648,970	58,430	2,930	61,360	17.970,860	-17.321,890
203+0,000	10,000	0,000	3,340	0,000	648,970	59,350	3,860	63,210	18.034,070	-17.385,100
204+0,000	10,000	0,000	4,430	0,000	648,970	66,190	11,540	77,730	18.111,800	-17.462,830
205+0,000	10,000	0,000	4,950	0,000	648,970	75,020	18,730	93,750	18.205,550	-17.556,580
206+0,000	10,000	0,000	3,800	0,000	648,970	73,300	14,180	87,480	18.293,030	-17.644,060
207+0,000	10,000	0,000	2,860	0,000	648,970	60,490	6,140	66,630	18.359,660	-17.710,690
208+0,000	10,000	0,000	2,640	0,000	648,970	52,530	2,460	54,990	18.414,650	-17.765,680
209+0,000	10,000	0,000	2,810	0,000	648,970	52,840	1,620	54,460	18.469,110	-17.820,140
209+7,533	3,770	0,000	2,890	0,000	648,970	20,740	0,710	21,450	18.490,560	-17.841,590
209+7,540	0,000	0,000	2,890	0,000	648,970	0,020	0,000	0,020	18.490,580	-17.841,610
210+0,000	6,230	0,000	3,990	0,000	648,970	40,450	2,360	42,810	18.533,390	-17.884,420
211+0,000	10,000	0,000	5,810	0,000	648,970	92,070	5,840	97,910	18.631,300	-17.982,330
212+0,000	10,000	0,000	6,210	0,000	648,970	113,050	7,060	120,110	18.751,410	-18.102,440
213+0,000	10,000	0,000	6,020	0,000	648,970	114,760	7,450	122,210	18.873,620	-18.224,650
214+0,000	10,000	0,000	5,430	0,000	648,970	108,910	5,600	114,510	18.988,130	-18.339,160
215+0,000	10,000	0,000	5,480	0,000	648,970	104,600	4,540	109,140	19.097,270	-18.448,300
216+0,000	10,000	0,000	5,170	0,000	648,970	102,710	3,830	106,540	19.203,810	-18.554,840
217+0,000	10,000	0,000	5,170	0,000	648,970	99,680	3,770	103,450	19.307,260	-18.658,290
218+0,000	10,000	0,000	4,120	0,000	648,970	88,680	4,210	92,890	19.400,150	-18.751,180
219+0,000	10,000	0,000	2,160	0,000	648,970	60,350	2,470	62,820	19.462,970	-18.814,000
220+0,000	10,000	2,670	0,000	26,730	675,700	20,990	0,630	21,620	19.484,590	-18.808,890
221+0,000	10,000	0,000	1,010	26,730	702,430	10,010	0,070	10,080	19.494,670	-18.792,240
222+0,000	10,000	0,000	3,510	0,000	702,430	44,440	0,760	45,200	19.539,870	-18.837,440
223+0,000	10,000	0,000	4,400	0,000	702,430	77,580	1,560	79,140	19.619,010	-18.916,580
224+0,000	10,000	0,000	4,740	0,000	702,430	88,300	3,110	91,410	19.710,420	-19.007,990


Responsável técnica
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CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu

Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		Vol. Acum. Aterro (m³)
225+0,000	10,000	0,000	4,660	0,000	702,430	89,160	4,820	93,980	19.804,400	-19.101,970
226+0,000	10,000	0,000	4,210	0,000	702,430	85,460	3,200	88,660	19.893,060	-19.190,630
227+0,000	10,000	0,000	4,410	0,000	702,430	83,350	2,850	86,200	19.979,260	-19.276,830
228+0,000	10,000	0,000	4,510	0,000	702,430	85,120	4,090	89,210	20.068,470	-19.366,040
229+0,000	10,000	0,000	4,300	0,000	702,430	84,880	3,220	88,100	20.156,570	-19.454,140
230+0,000	10,000	0,000	4,340	0,000	702,430	83,910	2,490	86,400	20.242,970	-19.540,540
231+0,000	10,000	0,000	4,370	0,000	702,430	83,760	3,320	87,080	20.330,050	-19.627,620
232+0,000	10,000	0,000	4,410	0,000	702,430	84,750	3,080	87,830	20.417,880	-19.715,450
233+0,000	10,000	0,160	4,210	1,560	703,990	83,820	2,440	86,260	20.504,140	-19.800,150
234+0,000	10,000	0,000	3,500	1,560	705,550	74,470	2,710	77,180	20.581,320	-19.875,770
235+0,000	10,000	0,000	3,990	0,000	705,550	73,100	1,880	74,980	20.656,300	-19.950,750
236+0,000	10,000	0,000	1,280	0,000	705,550	51,770	1,000	52,770	20.709,070	-20.003,520
237+0,000	10,000	3,340	0,000	33,380	738,930	12,570	0,260	12,830	20.721,900	-19.982,970
238+0,000	10,000	0,940	0,000	42,790	781,720	0,070	0,000	0,070	20.721,970	-19.940,250
239+0,000	10,000	0,000	2,640	9,410	791,130	26,210	0,290	26,500	20.748,470	-19.957,340
240+0,000	10,000	0,000	3,040	0,000	791,130	55,780	1,010	56,790	20.805,260	-20.014,130
241+0,000	10,000	0,040	2,470	0,410	791,540	54,010	1,100	55,110	20.860,370	-20.068,830
242+0,000	10,000	0,000	2,490	0,410	791,950	48,670	0,990	49,660	20.910,030	-20.118,080
243+0,000	10,000	1,070	0,420	10,710	802,660	27,920	1,220	29,140	20.939,170	-20.136,510
243+12,532	6,270	0,220	2,640	8,090	810,750	18,190	1,020	19,210	20.958,380	-20.147,630
243+12,542	0,000	0,220	2,640	0,000	810,750	0,030	0,000	0,030	20.958,410	-20.147,660
244+0,000	3,730	0,020	3,220	0,880	811,630	21,050	0,810	21,860	20.980,270	-20.168,640
245+0,000	10,000	0,000	4,320	0,160	811,790	71,860	3,490	75,350	21.055,620	-20.243,830
246+0,000	10,000	0,030	3,360	0,270	812,060	73,420	3,330	76,750	21.132,370	-20.320,310
247+0,000	10,000	0,000	4,540	0,270	812,330	76,140	2,880	79,020	21.211,390	-20.399,060
248+0,000	10,000	0,000	4,580	0,000	812,330	86,890	4,330	91,220	21.302,610	-20.490,280
249+0,000	10,000	0,130	1,700	1,320	813,650	60,300	2,440	62,740	21.365,350	-20.551,700
250+0,000	10,000	0,000	3,840	1,320	814,970	53,140	2,220	55,360	21.420,710	-20.605,740
251+0,000	10,000	0,000	5,690	0,000	814,970	89,470	5,860	95,330	21.516,040	-20.701,070
252+0,000	10,000	0,000	6,270	0,000	814,970	110,750	8,910	119,660	21.635,700	-20.820,730
253+0,000	10,000	0,000	6,720	0,000	814,970	117,110	12,850	129,960	21.765,660	-20.950,690
254+0,000	10,000	0,000	6,520	0,000	814,970	118,650	13,810	132,460	21.898,120	-21.083,150
255+0,000	10,000	0,000	6,240	0,000	814,970	116,800	10,870	127,670	22.025,790	-21.210,820
256+0,000	10,000	0,020	4,460	0,230	815,200	100,670	6,410	107,080	22.132,870	-21.317,670
257+0,000	10,000	0,000	4,500	0,230	815,430	86,140	3,520	89,660	22.222,530	-21.407,100
258+0,000	10,000	0,000	5,290	0,000	815,430	93,170	4,710	97,880	22.320,410	-21.504,980
259+0,000	10,000	0,240	2,900	2,410	817,840	77,920	3,950	81,870	22.402,280	-21.584,440
260+0,000	10,000	0,000	1,490	2,410	820,250	42,550	1,340	43,890	22.446,170	-21.625,920
261+0,000	10,000	3,010	0,000	30,100	850,350	14,540	0,340	14,880	22.461,050	-21.610,700
262+0,000	10,000	2,640	0,000	56,540	906,890	0,000	0,000	0,000	22.461,050	-21.554,160
263+0,000	10,000	0,000	1,340	26,500	933,390	13,110	0,280	13,390	22.474,440	-21.541,050
264+0,000	10,000	0,260	2,300	2,650	936,040	35,000	1,350	36,350	22.510,790	-21.574,750
265+0,000	10,000	0,000	4,570	2,600	938,640	64,820	3,860	68,680	22.579,470	-21.640,830
266+0,000	10,000	0,000	4,750	0,000	938,640	87,090	6,130	93,220	22.672,690	-21.734,050
267+0,000	10,000	0,840	1,220	8,430	947,070	54,910	4,750	59,660	22.732,350	-21.785,280
268+0,000	10,000	0,000	3,290	8,430	955,500	41,480	3,540	45,020	22.777,370	-21.821,870
269+0,000	10,000	0,000	4,320	0,000	955,500	71,720	4,320	76,040	22.853,410	-21.897,910
270+0,000	10,000	0,000	4,950	0,000	955,500	87,430	5,290	92,720	22.946,130	-21.990,630
271+0,000	10,000	0,000	4,060	0,000	955,500	85,660	4,450	90,110	23.036,240	-22.080,740
272+0,000	10,000	0,000	4,620	0,000	955,500	83,280	3,490	86,770	23.123,010	-22.167,510
273+0,000	10,000	0,000	4,950	0,000	955,500	90,540	5,130	95,670	23.218,680	-22.263,180
274+0,000	10,000	0,000	5,040	0,000	955,500	94,590	5,320	99,910	23.318,590	-22.363,090
275+0,000	10,000	0,000	4,180	0,000	955,500	89,290	2,940	92,230	23.410,820	-22.455,320
276+0,000	10,000	0,000	5,450	0,000	955,500	92,840	3,410	96,250	23.507,070	-22.551,570
277+0,000	10,000	0,000	5,770	0,000	955,500	106,200	5,940	112,140	23.619,210	-22.663,710
278+0,000	10,000	0,000	6,240	0,000	955,500	112,660	7,400	120,060	23.739,270	-22.783,770
279+0,000	10,000	0,000	3,850	0,000	955,500	94,750	6,110	100,860	23.840,130	-22.884,630
280+0,000	10,000	0,000	1,500	0,000	955,500	51,510	1,960	53,470	23.893,600	-22.938,100
281+0,000	10,000	2,130	0,000	21,350	976,850	14,880	0,110	14,990	23.908,590	-22.931,740
282+0,000	10,000	0,000	1,070	21,350	998,200	10,620	0,050	10,670	23.919,260	-22.921,060
283+0,000	10,000	0,340	1,940	3,410	1.001,610	29,110	1,000	30,110	23.949,370	-22.947,760


 Responsável técnica
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Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		Vol. Acum. Aterro (m³)
284+0,000	10,000	0,090	4,160	4,360	1.005,970	58,450	2,570	61,020	24.010,390	-23.004,420
285+0,000	10,000	0,000	6,750	0,950	1.006,920	99,740	9,310	109,050	24.119,440	-23.112,520
286+0,000	10,000	0,000	6,700	0,000	1.006,920	119,160	15,350	134,510	24.253,950	-23.247,030
287+0,000	10,000	0,000	5,080	0,000	1.006,920	107,960	9,840	117,800	24.371,750	-23.364,830
288+0,000	10,000	0,000	5,250	0,000	1.006,920	95,030	8,230	103,260	24.475,010	-23.468,090
289+0,000	10,000	0,000	6,290	0,000	1.006,920	103,730	11,690	115,420	24.590,430	-23.583,510
290+0,000	10,000	0,000	5,010	0,000	1.006,920	101,930	11,100	113,030	24.703,460	-23.696,540
291+0,000	10,000	0,000	6,450	0,000	1.006,920	102,180	12,460	114,640	24.818,100	-23.811,180
292+0,000	10,000	0,000	6,660	0,000	1.006,920	116,290	14,880	131,170	24.949,270	-23.942,350
293+0,000	10,000	0,000	6,720	0,000	1.006,920	117,990	15,860	133,850	25.083,120	-24.076,200
294+0,000	10,000	0,000	6,680	0,000	1.006,920	119,010	15,010	134,020	25.217,140	-24.210,220
295+0,000	10,000	0,000	5,020	0,000	1.006,920	106,940	10,110	117,050	25.334,190	-24.327,270
296+0,000	10,000	0,000	5,660	0,000	1.006,920	100,090	6,720	106,810	25.441,000	-24.434,080
297+0,000	10,000	0,000	4,270	0,000	1.006,920	93,790	5,530	99,320	25.540,320	-24.533,400
298+0,000	10,000	0,000	4,590	0,000	1.006,920	84,250	4,390	88,640	25.628,960	-24.622,040
299+0,000	10,000	0,000	3,100	0,000	1.006,920	73,270	3,640	76,910	25.705,870	-24.698,950
300+0,000	10,000	0,130	0,750	1,290	1.008,210	37,290	1,190	38,480	25.744,350	-24.736,140
301+0,000	10,000	3,660	0,000	37,930	1.046,140	7,420	0,050	7,470	25.751,820	-24.705,680
302+0,000	10,000	4,690	0,000	83,590	1.129,730	0,000	0,000	0,000	25.751,820	-24.622,090
303+0,000	10,000	0,860	0,000	55,510	1.185,240	0,000	0,000	0,000	25.751,820	-24.566,580
304+0,000	10,000	0,070	1,900	9,220	1.194,460	18,310	0,680	18,990	25.770,810	-24.576,350
305+0,000	10,000	0,000	3,680	0,650	1.195,110	53,280	2,480	55,760	25.826,570	-24.631,460
306+0,000	10,000	0,000	4,380	0,000	1.195,110	76,550	4,070	80,620	25.907,190	-24.712,080
307+0,000	10,000	0,000	3,870	0,000	1.195,110	78,250	4,300	82,550	25.989,740	-24.794,630
308+0,000	10,000	0,000	4,250	0,000	1.195,110	77,430	3,740	81,170	26.070,910	-24.875,800
309+0,000	10,000	0,000	3,210	0,000	1.195,110	71,250	3,320	74,570	26.145,480	-24.950,370
310+0,000	10,000	0,020	2,880	0,220	1.195,330	59,270	1,600	60,870	26.206,350	-25.011,020
311+0,000	10,000	0,000	4,890	0,220	1.195,550	74,910	2,790	77,700	26.284,050	-25.088,500
311+17,925	8,960	0,000	3,660	0,000	1.195,550	73,520	3,140	76,660	26.360,710	-25.165,160
311+17,925	0,000	0,000	3,660	0,000	1.195,550	0,000	0,000	0,000	26.360,710	-25.165,160
312+0,000	1,040	0,000	3,780	0,000	1.195,550	7,570	0,150	7,720	26.368,430	-25.172,880
313+0,000	10,000	0,000	4,460	0,000	1.195,550	80,620	1,800	82,420	26.450,850	-25.255,300
314+0,000	10,000	0,000	4,090	0,000	1.195,550	83,360	2,120	85,480	26.536,330	-25.340,780
315+0,000	10,000	0,000	3,680	0,000	1.195,550	75,740	1,930	77,670	26.614,000	-25.418,450
316+0,000	10,000	0,550	0,180	5,520	1.201,070	37,670	0,890	38,560	26.652,560	-25.451,490
317+0,000	10,000	3,490	0,000	40,380	1.241,450	1,780	0,000	1,780	26.654,340	-25.412,890
318+0,000	10,000	0,260	0,140	37,450	1.278,900	1,350	0,000	1,350	26.655,690	-25.376,790
319+0,000	10,000	0,000	5,490	2,580	1.281,480	53,640	2,590	56,230	26.711,920	-25.430,440
320+0,000	10,000	0,000	5,570	0,000	1.281,480	104,350	6,180	110,530	26.822,450	-25.540,970
321+0,000	10,000	0,000	7,180	0,000	1.281,480	112,070	15,370	127,440	26.949,890	-25.668,410
322+0,000	10,000	0,000	6,320	0,000	1.281,480	114,860	20,120	134,980	27.084,870	-25.803,390
323+0,000	10,000	0,000	5,020	0,000	1.281,480	102,040	11,310	113,350	27.198,220	-25.916,740
324+0,000	10,000	0,000	6,730	0,000	1.281,480	102,380	15,050	117,430	27.315,650	-26.034,170
325+0,000	10,000	0,000	6,550	0,000	1.281,480	110,080	22,670	132,750	27.448,400	-26.166,920
326+0,000	10,000	0,000	7,090	0,000	1.281,480	114,510	21,850	136,360	27.584,760	-26.303,280
327+0,000	10,000	0,000	7,290	0,000	1.281,480	119,150	24,670	143,820	27.728,580	-26.447,100
328+0,000	10,000	0,000	4,400	0,000	1.281,480	102,760	14,170	116,930	27.845,510	-26.564,030
329+0,000	10,000	0,000	4,960	0,000	1.281,480	90,550	2,990	93,540	27.939,050	-26.657,570
330+0,000	10,000	0,000	3,880	0,000	1.281,480	84,020	4,380	88,400	28.027,450	-26.745,970
331+0,000	10,000	0,000	1,160	0,000	1.281,480	48,060	2,360	50,420	28.077,870	-26.796,390
332+0,000	10,000	3,300	0,000	33,020	1.314,500	11,350	0,220	11,570	28.089,440	-26.774,940
333+0,000	10,000	0,230	0,480	35,320	1.349,820	4,810	0,000	4,810	28.094,250	-26.744,430
334+0,000	10,000	0,000	5,210	2,300	1.352,120	54,270	2,660	56,930	28.151,180	-26.799,060
335+0,000	10,000	0,000	5,110	0,000	1.352,120	97,270	5,920	103,190	28.254,370	-26.902,250
336+0,000	10,000	0,000	5,210	0,000	1.352,120	95,870	7,270	103,140	28.357,510	-27.005,390
337+0,000	10,000	0,000	4,710	0,000	1.352,120	92,460	6,710	99,170	28.456,680	-27.104,560
338+0,000	10,000	0,000	5,310	0,000	1.352,120	92,230	7,980	100,210	28.556,890	-27.204,770
339+0,000	10,000	0,000	4,680	0,000	1.352,120	91,720	8,180	99,900	28.656,790	-27.304,670
340+0,000	10,000	0,000	4,070	0,000	1.352,120	83,100	4,380	87,480	28.744,270	-27.392,150
341+0,000	10,000	0,490	0,150	4,920	1.357,040	40,700	1,470	42,170	28.786,440	-27.429,400
342+0,000	10,000	4,480	0,000	49,710	1.406,750	1,490	0,000	1,490	28.787,930	-27.381,180

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		Vol. Acum. Aterro (m³)
343+0,000	10,000	0,560	0,000	50,430	1.457,180	0,040	0,000	0,040	28.787,970	-27.330,790
344+0,000	10,000	0,000	2,290	5,640	1.462,820	21,530	1,420	22,950	28.810,920	-27.348,100
345+0,000	10,000	0,000	4,340	0,000	1.462,820	62,090	4,180	66,270	28.877,190	-27.414,370
346+0,000	10,000	0,000	5,400	0,000	1.462,820	89,080	8,290	97,370	28.974,560	-27.511,740
347+0,000	10,000	0,000	5,470	0,000	1.462,820	97,350	11,400	108,750	29.083,310	-27.620,490
348+0,000	10,000	0,000	5,380	0,000	1.462,820	96,450	12,080	108,530	29.191,840	-27.729,020
349+0,000	10,000	0,000	4,910	0,000	1.462,820	93,630	9,240	102,870	29.294,710	-27.831,890
350+0,000	10,000	0,000	3,940	0,000	1.462,820	83,860	4,580	88,440	29.383,150	-27.920,330
351+0,000	10,000	0,000	5,170	0,000	1.462,820	83,540	7,500	91,040	29.474,190	-28.011,370
352+0,000	10,000	0,000	4,600	0,000	1.462,820	88,500	9,190	97,690	29.571,880	-28.109,060
353+0,000	10,000	0,000	2,700	0,000	1.462,820	68,660	4,370	73,030	29.644,910	-28.182,090
354+0,000	10,000	0,100	0,780	0,950	1.463,770	33,610	1,180	34,790	29.679,700	-28.215,930
355+0,000	10,000	4,610	0,000	47,090	1.510,860	7,750	0,030	7,780	29.687,480	-28.176,620
356+0,000	10,000	1,220	0,000	58,370	1.569,230	0,000	0,000	0,000	29.687,480	-28.118,250
357+0,000	10,000	0,000	5,490	12,240	1.581,470	51,800	3,110	54,910	29.742,390	-28.160,920
358+0,000	10,000	0,000	4,810	0,000	1.581,470	96,810	6,200	103,010	29.845,400	-28.263,930
359+0,000	10,000	0,000	4,850	0,000	1.581,470	90,280	6,340	96,620	29.942,020	-28.360,550
360+0,000	10,000	0,000	5,500	0,000	1.581,470	94,190	9,320	103,510	30.045,530	-28.464,060
361+0,000	10,000	0,000	6,260	0,000	1.581,470	101,920	15,700	117,620	30.163,150	-28.581,680
362+0,000	10,000	0,000	6,480	0,000	1.581,470	110,580	16,840	127,420	30.290,570	-28.709,100
363+0,000	10,000	0,000	5,970	0,000	1.581,470	113,730	10,780	124,510	30.415,080	-28.833,610
364+0,000	10,000	0,000	3,310	0,000	1.581,470	88,790	4,090	92,880	30.507,960	-28.926,490
365+0,000	10,000	0,000	6,210	0,000	1.581,470	89,500	5,710	95,210	30.603,170	-29.021,700
366+0,000	10,000	0,000	5,040	0,000	1.581,470	102,780	9,670	112,450	30.715,620	-29.134,150
367+0,000	10,000	0,000	5,610	0,000	1.581,470	98,160	8,370	106,530	30.822,150	-29.240,680
368+0,000	10,000	0,000	5,920	0,000	1.581,470	106,790	8,510	115,300	30.937,450	-29.355,980
369+0,000	10,000	0,000	5,890	0,000	1.581,470	109,070	9,030	118,100	31.055,550	-29.474,080
370+0,000	10,000	0,000	4,970	0,000	1.581,470	102,510	6,160	108,670	31.164,220	-29.582,750
371+0,000	10,000	0,000	4,520	0,000	1.581,470	90,710	4,230	94,940	31.259,160	-29.677,690
372+0,000	10,000	0,000	4,830	0,000	1.581,470	88,550	4,930	93,480	31.352,640	-29.771,170
373+0,000	10,000	0,000	3,500	0,000	1.581,470	78,740	4,570	83,310	31.435,950	-29.854,480
374+0,000	10,000	0,000	1,460	0,000	1.581,470	47,320	2,350	49,670	31.485,620	-29.904,150
375+0,000	10,000	6,320	0,000	63,210	1.644,680	14,380	0,240	14,620	31.500,240	-29.855,560
376+0,000	10,000	2,600	0,000	89,240	1.733,920	0,000	0,000	0,000	31.500,240	-29.766,320
377+0,000	10,000	0,420	0,550	30,220	1.764,140	5,490	0,040	5,530	31.505,770	-29.741,630
378+0,000	10,000	1,650	0,000	20,740	1.784,880	5,490	0,040	5,530	31.511,300	-29.726,420
379+0,000	10,000	0,000	3,450	16,550	1.801,430	33,980	0,530	34,510	31.545,810	-29.744,380
380+0,000	10,000	0,000	5,550	0,000	1.801,430	85,000	4,980	89,980	31.635,790	-29.834,360
381+0,000	10,000	0,000	9,470	0,000	1.801,430	111,020	39,190	150,210	31.786,000	-29.984,570
382+0,000	10,000	0,000	10,030	0,000	1.801,430	119,940	75,070	195,010	31.981,010	-30.179,580
383+0,000	10,000	0,000	11,720	0,000	1.801,430	119,930	97,540	217,470	32.198,480	-30.397,050
384+0,000	10,000	0,000	13,840	0,000	1.801,430	120,000	135,620	255,620	32.454,100	-30.652,670
385+0,000	10,000	0,000	17,020	0,000	1.801,430	120,000	188,580	308,580	32.762,680	-30.961,250
386+0,000	10,000	0,000	16,340	0,000	1.801,430	120,000	213,560	333,560	33.096,240	-31.294,810
387+0,000	10,000	0,000	15,120	0,000	1.801,430	120,000	194,590	314,590	33.410,830	-31.609,400
388+0,000	10,000	0,000	8,600	0,000	1.801,430	120,000	117,170	237,170	33.648,000	-31.846,570
389+0,000	10,000	0,000	6,410	0,000	1.801,430	116,260	33,850	150,110	33.798,110	-31.996,680
389+2,248	1,120	0,000	5,940	0,000	1.801,430	12,360	1,520	13,880	33.811,990	-32.010,560
390+0,000	8,880	0,000	2,870	0,030	1.801,460	72,240	5,940	78,180	33.890,170	-32.088,710
391+0,000	10,000	0,000	3,060	0,030	1.801,490	56,750	2,550	59,300	33.949,470	-32.147,980
392+0,000	10,000	0,770	0,760	7,730	1.809,220	35,980	2,180	38,160	33.987,630	-32.178,410
393+0,000	10,000	5,330	0,000	61,020	1.870,240	6,890	0,680	7,570	33.995,200	-32.124,960
394+0,000	10,000	1,480	0,000	68,140	1.938,380	0,000	0,000	0,000	33.995,200	-32.056,820
395+0,000	10,000	0,000	4,020	14,850	1.953,230	39,020	1,130	40,150	34.035,350	-32.082,120
396+0,000	10,000	0,000	3,970	0,000	1.953,230	77,150	2,700	79,850	34.115,200	-32.161,970
397+0,000	10,000	0,000	3,920	0,000	1.953,230	75,450	3,450	78,900	34.194,100	-32.240,870
398+0,000	10,000	0,000	4,430	0,000	1.953,230	79,050	4,480	83,530	34.277,630	-32.324,400
399+0,000	10,000	0,000	4,150	0,000	1.953,230	81,310	4,550	85,860	34.363,490	-32.410,260
400+0,000	10,000	0,000	5,270	0,000	1.953,230	88,200	6,020	94,220	34.457,710	-32.504,480
401+0,000	10,000	0,000	5,300	0,000	1.953,230	97,790	7,920	105,710	34.563,420	-32.610,190
402+0,000	10,000	0,000	4,320	0,000	1.953,230	90,600	5,630	96,230	34.659,650	-32.706,420

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
403+0,000	10,000	0,000	4,140	0,000	1.953,230	81,200	3,460	84,660	34.744,310	-32.791,080
404+0,000	10,000	0,000	6,130	0,000	1.953,230	94,700	8,000	102,700	34.847,010	-32.893,780
405+0,000	10,000	0,000	4,590	0,000	1.953,230	97,490	9,710	107,200	34.954,210	-33.000,980
406+0,000	10,000	0,000	4,260	0,000	1.953,230	81,830	6,670	88,500	35.042,710	-33.089,480
407+0,000	10,000	0,940	0,000	9,410	1.962,640	39,290	3,270	42,560	35.085,270	-33.122,630
408+0,000	10,000	3,550	0,000	44,920	2.007,560	0,000	0,000	0,000	35.085,270	-33.077,710
409+0,000	10,000	1,360	0,000	49,090	2.056,650	0,000	0,000	0,000	35.085,270	-33.028,620
410+0,000	10,000	0,000	2,750	13,580	2.070,230	26,890	0,590	27,480	35.112,750	-33.042,520
411+0,000	10,000	0,000	2,910	0,000	2.070,230	55,240	1,380	56,620	35.169,370	-33.099,140
412+0,000	10,000	0,000	4,570	0,000	2.070,230	72,660	2,210	74,870	35.244,240	-33.174,010
413+0,000	10,000	0,000	4,110	0,000	2.070,230	83,570	3,250	86,820	35.331,060	-33.260,830
414+0,000	10,000	0,000	2,350	0,000	2.070,230	61,650	2,890	64,540	35.395,600	-33.325,370
415+0,000	10,000	0,280	2,230	2,800	2.073,030	43,790	1,990	45,780	35.441,380	-33.368,350
416+0,000	10,000	0,000	3,960	2,800	2.075,830	58,560	3,400	61,960	35.503,340	-33.427,510
417+0,000	10,000	0,000	3,830	0,000	2.075,830	73,010	4,900	77,910	35.581,250	-33.505,420
418+0,000	10,000	0,000	2,140	0,000	2.075,830	57,120	2,580	59,700	35.640,950	-33.565,120
419+0,000	10,000	0,000	5,550	0,000	2.075,830	73,570	3,310	76,880	35.717,830	-33.642,000
420+0,000	10,000	0,000	4,190	0,000	2.075,830	91,020	6,310	97,330	35.815,160	-33.739,330
421+0,000	10,000	0,040	3,490	0,410	2.076,240	72,910	3,890	76,800	35.891,960	-33.815,720
422+0,000	10,000	0,130	2,400	1,670	2.077,910	57,270	1,690	58,960	35.950,920	-33.873,010
423+0,000	10,000	0,000	5,350	1,260	2.079,170	73,300	4,230	77,530	36.028,450	-33.949,280
424+0,000	10,000	0,000	4,200	0,000	2.079,170	89,760	5,760	95,520	36.123,970	-34.044,800
425+0,000	10,000	0,030	2,070	0,330	2.079,500	60,170	2,490	62,660	36.186,630	-34.107,130
426+0,000	10,000	0,000	3,310	0,330	2.079,830	52,250	1,520	53,770	36.240,400	-34.160,570
427+0,000	10,000	1,850	0,000	18,480	2.098,310	31,630	1,490	33,120	36.273,520	-34.175,210
428+0,000	10,000	3,050	0,000	48,960	2.147,270	0,000	0,000	0,000	36.273,520	-34.126,250
429+0,000	10,000	2,690	0,000	57,360	2.204,630	0,000	0,000	0,000	36.273,520	-34.068,890
430+0,000	10,000	0,270	1,140	29,570	2.234,200	11,170	0,250	11,420	36.284,940	-34.050,740
431+0,000	10,000	0,000	3,430	2,700	2.236,900	44,220	1,490	45,710	36.330,650	-34.093,750
432+0,000	10,000	0,000	2,290	0,000	2.236,900	55,860	1,290	57,150	36.387,800	-34.150,900
433+0,000	10,000	0,000	3,560	0,000	2.236,900	57,110	1,290	58,400	36.446,200	-34.209,300
434+0,000	10,000	0,000	4,980	0,000	2.236,900	80,580	4,750	85,330	36.531,530	-34.294,630
435+0,000	10,000	0,000	4,740	0,000	2.236,900	91,210	6,000	97,210	36.628,740	-34.391,840
436+0,000	10,000	0,000	4,650	0,000	2.236,900	89,040	4,860	93,900	36.722,640	-34.485,740
437+0,000	10,000	0,000	5,750	0,000	2.236,900	96,580	7,340	103,920	36.826,560	-34.589,660
438+0,000	10,000	0,000	5,250	0,000	2.236,900	101,990	7,960	109,950	36.936,510	-34.699,610
439+0,000	10,000	0,000	4,640	0,000	2.236,900	93,370	5,480	98,850	37.035,360	-34.798,460
440+0,000	10,000	0,000	4,480	0,000	2.236,900	86,100	5,090	91,190	37.126,550	-34.889,650
441+0,000	10,000	0,000	4,330	0,000	2.236,900	83,700	4,390	88,090	37.214,640	-34.977,740
442+0,000	10,000	0,000	4,600	0,000	2.236,900	83,910	5,320	89,230	37.303,870	-35.066,970
443+0,000	10,000	0,000	4,580	0,000	2.236,900	85,100	6,700	91,800	37.395,670	-35.158,770
444+0,000	10,000	0,000	4,220	0,000	2.236,900	82,330	5,670	88,000	37.483,670	-35.246,770
445+0,000	10,000	0,000	4,990	0,000	2.236,900	86,160	5,870	92,030	37.575,700	-35.338,800
446+0,000	10,000	0,000	4,120	0,000	2.236,900	85,660	5,430	91,090	37.666,790	-35.429,890
447+0,000	10,000	0,140	0,660	1,390	2.238,290	45,650	2,160	47,810	37.714,600	-35.476,310
448+0,000	10,000	1,400	0,000	15,350	2.253,640	6,470	0,110	6,580	37.721,180	-35.467,540
449+0,000	10,000	0,370	0,080	17,620	2.271,260	0,800	0,030	0,830	37.722,010	-35.450,750
450+0,000	10,000	0,000	1,300	3,660	2.274,920	13,400	0,410	13,810	37.735,820	-35.460,900
451+0,000	10,000	0,000	2,650	0,000	2.274,920	38,350	1,080	39,430	37.775,250	-35.500,330
452+0,000	10,000	0,000	2,900	0,000	2.274,920	53,790	1,690	55,480	37.830,730	-35.555,810
453+0,000	10,000	0,000	3,100	0,000	2.274,920	57,690	2,300	59,990	37.890,720	-35.615,800
454+0,000	10,000	0,000	2,690	0,000	2.274,920	55,310	2,600	57,910	37.948,630	-35.673,710
455+0,000	10,000	0,000	2,460	0,000	2.274,920	49,600	1,990	51,590	38.000,220	-35.725,300
456+0,000	10,000	0,000	2,040	0,000	2.274,920	43,650	1,380	45,030	38.045,250	-35.770,330
457+0,000	10,000	0,000	2,120	0,000	2.274,920	40,760	0,860	41,620	38.086,870	-35.811,950
458+0,000	10,000	0,000	2,630	0,000	2.274,920	46,130	1,440	47,570	38.134,440	-35.859,520
459+0,000	10,000	0,000	3,300	0,000	2.274,920	56,440	2,870	59,310	38.193,750	-35.918,830
460+0,000	10,000	0,000	3,260	0,000	2.274,920	63,360	2,220	65,580	38.259,330	-35.984,410
461+0,000	10,000	0,000	2,720	0,000	2.274,920	57,820	2,020	59,840	38.319,170	-36.044,250
462+0,000	10,000	0,000	1,890	0,000	2.274,920	43,820	2,320	46,140	38.365,310	-36.090,390
463+0,000	10,000	0,000	3,440	0,000	2.274,920	50,370	2,990	53,360	38.418,670	-36.143,750


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
Engenheiro Civil
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Corresponsável
Fabricio Henrique Eufrazio Segura
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Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		Vol. Acum. Aterro (m³)
464+0,000	10,000	0,000	4,820	0,000	2.274,920	76,840	5,770	82,610	38.501,280	-36.226,360
465+0,000	10,000	0,000	5,110	0,000	2.274,920	92,010	7,220	99,230	38.600,510	-36.325,590
466+0,000	10,000	0,000	6,350	0,000	2.274,920	104,720	9,860	114,580	38.715,090	-36.440,170
467+0,000	10,000	0,000	6,130	0,000	2.274,920	112,940	11,910	124,850	38.839,940	-36.565,020
468+0,000	10,000	0,000	5,220	0,000	2.274,920	104,680	8,890	113,570	38.953,510	-36.678,590
469+0,000	10,000	0,000	5,870	0,000	2.274,920	102,500	8,460	110,960	39.064,470	-36.789,550
470+0,000	10,000	0,000	4,740	0,000	2.274,920	97,610	8,490	106,100	39.170,570	-36.895,650
471+0,000	10,000	0,000	5,300	0,000	2.274,920	93,470	6,870	100,340	39.270,910	-36.995,990
472+0,000	10,000	0,000	5,630	0,000	2.274,920	101,210	8,080	109,290	39.380,200	-37.105,280
473+0,000	10,000	0,000	5,020	0,000	2.274,920	98,250	8,250	106,500	39.486,700	-37.211,780
474+0,000	10,000	0,000	5,640	0,000	2.274,920	99,030	7,570	106,600	39.593,300	-37.318,380
475+0,000	10,000	0,000	4,730	0,000	2.274,920	97,020	6,670	103,690	39.696,990	-37.422,070
476+0,000	10,000	0,000	5,920	0,000	2.274,920	98,110	8,390	106,500	39.803,490	-37.528,570
477+0,000	10,000	0,000	5,710	0,000	2.274,920	105,750	10,590	116,340	39.919,830	-37.644,910
478+0,000	10,000	0,000	5,720	0,000	2.274,920	104,370	9,900	114,270	40.034,100	-37.759,180
479+0,000	10,000	0,000	5,970	0,000	2.274,920	106,750	10,120	116,870	40.150,970	-37.876,050
480+0,000	10,000	0,000	4,760	0,000	2.274,920	99,420	7,900	107,320	40.258,290	-37.983,370
481+0,000	10,000	0,000	4,940	0,000	2.274,920	91,510	5,550	97,060	40.355,350	-38.080,430
482+0,000	10,000	0,000	4,220	0,000	2.274,920	86,450	5,200	91,650	40.447,000	-38.172,080
483+0,000	10,000	0,000	2,800	0,000	2.274,920	66,480	3,710	70,190	40.517,190	-38.242,270
484+0,000	10,000	2,100	0,000	21,000	2.295,920	26,600	1,380	27,980	40.545,170	-38.249,250
485+0,000	10,000	0,000	3,490	21,000	2.316,920	32,720	2,190	34,910	40.580,080	-38.263,160
486+0,000	10,000	0,000	5,940	0,000	2.316,920	86,640	7,710	94,350	40.674,430	-38.357,510
487+0,000	10,000	0,000	5,390	0,000	2.316,920	103,980	9,370	113,350	40.787,780	-38.470,860
488+0,000	10,000	0,000	5,310	0,000	2.316,920	98,630	8,340	106,970	40.894,750	-38.577,830
489+0,000	10,000	0,000	5,110	0,000	2.316,920	95,730	8,450	104,180	40.998,930	-38.682,010
490+0,000	10,000	0,000	4,230	0,000	2.316,920	86,850	6,570	93,420	41.092,350	-38.775,430
491+0,000	10,000	0,000	4,070	0,000	2.316,920	77,910	5,060	82,970	41.175,320	-38.858,400
492+0,000	10,000	0,000	4,820	0,000	2.316,920	82,590	6,280	88,870	41.264,190	-38.947,270
493+0,000	10,000	0,000	4,290	0,000	2.316,920	83,830	7,310	91,140	41.355,330	-39.038,410
494+0,000	10,000	0,000	3,450	0,000	2.316,920	72,330	5,040	77,370	41.432,700	-39.115,780
495+0,000	10,000	0,000	4,570	0,000	2.316,920	74,930	5,200	80,130	41.512,830	-39.195,910
496+0,000	10,000	0,000	4,030	0,000	2.316,920	78,950	7,030	85,980	41.598,810	-39.281,890
497+0,000	10,000	0,000	4,150	0,000	2.316,920	75,720	6,110	81,830	41.680,640	-39.363,720
498+0,000	10,000	0,000	4,700	0,000	2.316,920	82,290	6,230	88,520	41.769,160	-39.452,240
499+0,000	10,000	0,000	4,200	0,000	2.316,920	82,980	6,040	89,020	41.858,180	-39.541,260
500+0,000	10,000	0,000	3,390	0,000	2.316,920	72,030	3,900	75,930	41.934,110	-39.617,190
501+0,000	10,000	0,000	3,250	0,000	2.316,920	62,880	3,480	66,360	42.000,470	-39.683,550
502+0,000	10,000	0,000	4,050	0,000	2.316,920	67,610	5,330	72,940	42.073,410	-39.756,490
503+0,000	10,000	0,000	4,270	0,000	2.316,920	76,670	6,500	83,170	42.156,580	-39.839,660
504+0,000	10,000	0,000	3,960	0,000	2.316,920	76,580	5,730	82,310	42.238,890	-39.921,970
505+0,000	10,000	0,000	3,600	0,000	2.316,920	71,250	4,350	75,600	42.314,490	-39.997,570
506+0,000	10,000	0,000	2,320	0,000	2.316,920	56,480	2,710	59,190	42.373,680	-40.056,760
507+0,000	10,000	0,000	0,540	0,020	2.316,940	27,520	1,110	28,630	42.402,310	-40.085,370
508+0,000	10,000	3,280	0,000	32,840	2.349,780	5,130	0,290	5,420	42.407,730	-40.057,950
509+0,000	10,000	0,720	0,000	40,030	2.389,810	0,090	0,000	0,090	42.407,820	-40.018,010
510+0,000	10,000	0,000	2,010	7,210	2.397,020	19,090	1,050	20,140	42.427,960	-40.030,940
511+0,000	10,000	0,000	2,840	0,000	2.397,020	46,190	2,300	48,490	42.476,450	-40.079,430
512+0,000	10,000	0,000	2,980	0,000	2.397,020	55,930	2,330	58,260	42.534,710	-40.137,690
513+0,000	10,000	0,000	3,650	0,000	2.397,020	63,250	3,070	66,320	42.601,030	-40.204,010
514+0,000	10,000	0,000	3,080	0,000	2.397,020	63,360	3,950	67,310	42.668,340	-40.271,320
515+0,000	10,000	0,000	1,200	0,000	2.397,020	40,880	1,950	42,830	42.711,170	-40.314,150
516+0,000	10,000	0,000	2,420	0,000	2.397,020	35,300	0,880	36,180	42.747,350	-40.350,330
517+0,000	10,000	0,000	3,260	0,000	2.397,020	54,240	2,560	56,800	42.804,150	-40.407,130
518+0,000	10,000	0,000	4,530	0,000	2.397,020	73,010	4,890	77,900	42.882,050	-40.485,030
519+0,000	10,000	0,000	4,300	0,000	2.397,020	81,810	6,420	88,230	42.970,280	-40.573,260
520+0,000	10,000	0,000	3,260	0,000	2.397,020	70,860	4,660	75,520	43.045,800	-40.648,780
521+0,000	10,000	0,000	3,290	0,000	2.397,020	62,530	2,890	65,420	43.111,220	-40.714,200
522+0,000	10,000	0,000	4,410	0,000	2.397,020	72,670	4,300	76,970	43.188,190	-40.791,170
523+0,000	10,000	0,000	5,000	0,000	2.397,020	87,150	6,910	94,060	43.282,250	-40.885,230
524+0,000	10,000	0,000	4,890	0,000	2.397,020	90,920	7,970	98,890	43.381,140	-40.984,120


Responsável técnica
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Corresponsável
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CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
525+0,000	10,000	0,000	3,450	0,000	2.397,020	78,170	5,260	83,430	43.464,570	-41.067,550
526+0,000	10,000	0,000	1,560	0,020	2.397,040	47,620	2,440	50,060	43.514,630	-41.117,590
527+0,000	10,000	0,760	0,030	7,660	2.404,700	14,780	1,090	15,870	43.530,500	-41.125,800
528+0,000	10,000	2,640	0,000	33,990	2.438,690	0,310	0,000	0,310	43.530,810	-41.092,120
529+0,000	10,000	0,020	0,290	26,510	2.465,200	2,860	0,060	2,920	43.533,730	-41.068,530
530+0,000	10,000	0,000	1,410	0,150	2.465,350	16,550	0,430	16,980	43.550,710	-41.085,360
531+0,000	10,000	0,000	3,730	0,000	2.465,350	48,030	3,290	51,320	43.602,030	-41.136,680
532+0,000	10,000	0,000	3,670	0,000	2.465,350	69,230	4,690	73,920	43.675,950	-41.210,600
533+0,000	10,000	0,000	4,590	0,000	2.465,350	76,960	5,560	82,520	43.758,470	-41.293,120
534+0,000	10,000	0,000	4,880	0,000	2.465,350	86,860	7,810	94,670	43.853,140	-41.387,790
535+0,000	10,000	0,000	3,980	0,000	2.465,350	82,360	6,210	88,570	43.941,710	-41.476,360
536+0,000	10,000	0,000	3,440	0,000	2.465,350	71,080	3,060	74,140	44.015,850	-41.550,500
537+0,000	10,000	0,000	4,300	0,000	2.465,350	73,240	4,180	77,420	44.093,270	-41.627,920
538+0,000	10,000	0,000	3,490	0,000	2.465,350	72,850	5,080	77,930	44.171,200	-41.705,850
539+0,000	10,000	0,000	4,670	0,000	2.465,350	76,650	4,960	81,610	44.252,810	-41.787,460
540+0,000	10,000	0,000	4,760	0,000	2.465,350	88,400	5,900	94,300	44.347,110	-41.881,760
541+0,000	10,000	0,000	2,950	0,000	2.465,350	73,000	4,040	77,040	44.424,150	-41.958,800
542+0,000	10,000	0,000	2,090	0,000	2.465,350	47,950	2,410	50,360	44.474,510	-42.009,160
543+0,000	10,000	0,070	0,420	0,720	2.466,070	24,010	1,100	25,110	44.499,620	-42.033,550
544+0,000	10,000	0,000	2,710	0,720	2.466,790	30,060	1,310	31,370	44.530,990	-42.064,200
545+0,000	10,000	0,000	5,140	0,000	2.466,790	74,040	4,460	78,500	44.609,490	-42.142,700
546+0,000	10,000	0,000	4,240	0,000	2.466,790	88,420	5,360	93,780	44.703,270	-42.236,480
547+0,000	10,000	0,000	4,740	0,000	2.466,790	85,540	4,320	89,860	44.793,130	-42.326,340
548+0,000	10,000	0,000	4,430	0,000	2.466,790	87,350	4,380	91,730	44.884,860	-42.418,070
549+0,000	10,000	0,000	3,640	0,000	2.466,790	76,680	4,040	80,720	44.965,580	-42.498,790
550+0,000	10,000	0,000	4,380	0,000	2.466,790	75,650	4,620	80,270	45.045,850	-42.579,060
551+0,000	10,000	0,000	4,270	0,000	2.466,790	80,990	5,580	86,570	45.132,420	-42.665,630
552+0,000	10,000	0,000	4,200	0,000	2.466,790	79,260	5,460	84,720	45.217,140	-42.750,350
553+0,000	10,000	0,000	4,020	0,000	2.466,790	77,060	5,130	82,190	45.299,330	-42.832,540
554+0,000	10,000	0,000	3,330	0,000	2.466,790	69,440	4,010	73,450	45.372,780	-42.905,990
555+0,000	10,000	0,000	3,220	0,000	2.466,790	62,370	3,130	65,500	45.438,280	-42.971,490
556+0,000	10,000	0,000	4,120	0,000	2.466,790	69,430	3,990	73,420	45.511,700	-43.044,910
557+0,000	10,000	0,000	4,120	0,000	2.466,790	77,830	4,600	82,430	45.594,130	-43.127,340
558+0,000	10,000	0,000	3,190	0,000	2.466,790	69,770	3,370	73,140	45.667,270	-43.200,480
559+0,000	10,000	0,000	3,720	0,000	2.466,790	65,770	3,330	69,100	45.736,370	-43.269,580
560+0,000	10,000	0,000	3,430	0,000	2.466,790	68,150	3,350	71,500	45.807,870	-43.341,080
561+0,000	10,000	0,000	3,860	0,000	2.466,790	69,330	3,520	72,850	45.880,720	-43.413,930
562+0,000	10,000	0,000	2,750	0,000	2.466,790	62,650	3,380	66,030	45.946,750	-43.479,960
563+0,000	10,000	0,000	1,050	0,000	2.466,790	36,700	1,300	38,000	45.984,750	-43.517,960
564+0,000	10,000	1,920	0,000	19,220	2.486,010	10,310	0,230	10,540	45.995,290	-43.509,280
565+0,000	10,000	0,070	0,790	19,900	2.505,910	7,430	0,430	7,860	46.003,150	-43.497,240
566+0,000	10,000	0,000	2,890	0,680	2.506,590	33,750	2,970	36,720	46.039,870	-43.533,280
567+0,000	10,000	0,000	3,110	0,000	2.506,590	55,340	4,650	59,990	46.099,860	-43.593,270
568+0,000	10,000	0,000	4,370	0,000	2.506,590	69,200	5,580	74,780	46.174,640	-43.668,050
568+15,756	7,880	0,000	4,840	0,000	2.506,590	67,260	5,260	72,520	46.247,160	-43.740,570
569+0,000	2,120	0,000	5,070	0,000	2.506,590	19,690	1,350	21,040	46.268,200	-43.761,610
570+0,000	10,000	0,000	3,210	0,000	2.506,590	78,310	4,500	82,810	46.351,010	-43.844,420
571+0,000	10,000	0,000	2,790	0,000	2.506,590	57,490	2,500	59,990	46.411,000	-43.904,410
572+0,000	10,000	0,000	3,200	0,000	2.506,590	57,000	2,880	59,880	46.470,880	-43.964,290
573+0,000	10,000	0,000	2,880	0,000	2.506,590	57,570	3,200	60,770	46.531,650	-44.025,060
574+0,000	10,000	0,000	2,380	0,000	2.506,590	49,810	2,790	52,600	46.584,250	-44.077,660
575+0,000	10,000	0,000	1,870	0,000	2.506,590	40,330	2,200	42,530	46.626,780	-44.120,190
576+0,000	10,000	0,000	2,320	0,000	2.506,590	39,490	2,470	41,960	46.668,740	-44.162,150
577+0,000	10,000	0,000	1,440	0,000	2.506,590	35,530	2,120	37,650	46.706,390	-44.199,800
578+0,000	10,000	0,000	1,720	0,000	2.506,590	30,370	1,230	31,600	46.737,990	-44.231,400
579+0,000	10,000	0,000	1,900	0,000	2.506,590	34,690	1,530	36,220	46.774,210	-44.267,620
580+0,000	10,000	0,000	1,460	0,000	2.506,590	32,490	1,150	33,640	46.807,850	-44.301,260
581+0,000	10,000	0,000	2,240	0,000	2.506,590	35,620	1,360	36,980	46.844,830	-44.338,240
582+0,000	10,000	0,000	2,590	0,000	2.506,590	46,040	2,270	48,310	46.893,140	-44.386,550
583+0,000	10,000	0,000	2,700	0,000	2.506,590	50,340	2,610	52,950	46.946,090	-44.439,500
584+0,000	10,000	0,000	2,870	0,000	2.506,590	53,190	2,530	55,720	47.001,810	-44.495,220


Responsável técnica
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Corresponsável
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CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
585+0,000	10,000	0,000	2,960	0,000	2.506,590	55,360	2,960	58,320	47.060,130	-44.553,540
586+0,000	10,000	0,000	2,700	0,000	2.506,590	53,750	2,830	56,580	47.116,710	-44.610,120
587+0,000	10,000	0,000	3,610	0,000	2.506,590	60,010	3,020	63,030	47.179,740	-44.673,150
588+0,000	10,000	0,000	3,710	0,000	2.506,590	69,250	3,890	73,140	47.252,880	-44.746,290
589+0,000	10,000	0,000	4,840	0,000	2.506,590	80,420	5,020	85,440	47.338,320	-44.831,730
590+0,000	10,000	0,000	5,390	0,000	2.506,590	95,420	6,850	102,270	47.440,590	-44.934,000
591+0,000	10,000	0,000	5,920	0,000	2.506,590	105,260	7,880	113,140	47.553,730	-45.047,140
592+0,000	10,000	0,000	6,230	0,000	2.506,590	110,590	10,970	121,560	47.675,290	-45.168,700
593+0,000	10,000	0,000	0,700	0,060	2.506,650	62,380	6,990	69,370	47.744,660	-45.238,010
594+0,000	10,000	0,000	1,770	0,060	2.506,710	24,050	0,680	24,730	47.769,390	-45.262,680
595+0,000	10,000	0,000	5,820	0,000	2.506,710	70,640	5,220	75,860	47.845,250	-45.338,540
596+0,000	10,000	0,000	7,830	0,000	2.506,710	113,430	22,990	136,420	47.981,670	-45.474,960
597+0,000	10,000	0,000	5,590	0,000	2.506,710	112,340	21,810	134,150	48.115,820	-45.609,110
598+0,000	10,000	0,000	5,810	0,000	2.506,710	106,430	7,530	113,960	48.229,780	-45.723,070
599+0,000	10,000	0,000	5,610	0,000	2.506,710	106,470	7,710	114,180	48.343,960	-45.837,250
600+0,000	10,000	0,000	4,960	0,000	2.506,710	99,110	6,590	105,700	48.449,660	-45.942,950
601+0,000	10,000	0,000	4,540	0,000	2.506,710	89,150	5,820	94,970	48.544,630	-46.037,920
602+0,000	10,000	0,000	4,140	0,000	2.506,710	80,890	5,920	86,810	48.631,440	-46.124,730
603+0,000	10,000	0,000	3,590	0,000	2.506,710	72,620	4,660	77,280	48.708,720	-46.202,010
604+0,000	10,000	0,000	3,820	0,000	2.506,710	70,080	4,030	74,110	48.782,830	-46.276,120
605+0,000	10,000	0,000	3,060	0,000	2.506,710	65,700	3,120	68,820	48.851,650	-46.344,940
606+0,000	10,000	0,000	3,290	0,000	2.506,710	60,560	2,960	63,520	48.915,170	-46.408,460
607+0,000	10,000	0,000	2,930	0,000	2.506,710	58,830	3,440	62,270	48.977,440	-46.470,730
608+0,000	10,000	0,000	3,490	0,000	2.506,710	60,930	3,350	64,280	49.041,720	-46.535,010
609+0,000	10,000	0,000	3,560	0,000	2.506,710	66,650	3,860	70,510	49.112,230	-46.605,520
610+0,000	10,000	0,000	1,200	0,000	2.506,710	45,540	2,050	47,590	49.159,820	-46.653,110
611+0,000	10,000	1,450	0,000	14,510	2.521,220	11,760	0,270	12,030	49.171,850	-46.650,630
612+0,000	10,000	0,000	2,030	14,510	2.535,730	20,140	0,200	20,340	49.192,190	-46.656,460
613+0,000	10,000	0,000	5,910	0,000	2.535,730	74,260	5,210	79,470	49.271,660	-46.735,930
614+0,000	10,000	0,000	5,310	0,000	2.535,730	104,400	7,780	112,180	49.383,840	-46.848,110
615+0,000	10,000	0,000	5,920	0,000	2.535,730	104,800	7,450	112,250	49.496,090	-46.960,360
616+0,000	10,000	0,000	5,110	0,000	2.535,730	103,000	7,310	110,310	49.606,400	-47.070,670
617+0,000	10,000	0,000	5,290	0,000	2.535,730	97,480	6,520	104,000	49.710,400	-47.174,670
618+0,000	10,000	0,000	4,900	0,000	2.535,730	94,450	7,450	101,900	49.812,300	-47.276,570
619+0,000	10,000	0,000	4,150	0,000	2.535,730	85,400	5,150	90,550	49.902,850	-47.367,120
620+0,000	10,000	0,000	3,250	0,000	2.535,730	70,960	3,110	74,070	49.976,920	-47.441,190
621+0,000	10,000	0,000	3,060	0,000	2.535,730	59,700	3,470	63,170	50.040,090	-47.504,360
622+0,000	10,000	0,000	4,150	0,000	2.535,730	67,290	4,810	72,100	50.112,190	-47.576,460
623+0,000	10,000	0,000	4,360	0,000	2.535,730	79,620	5,480	85,100	50.197,290	-47.661,560
624+0,000	10,000	0,000	3,900	0,000	2.535,730	78,160	4,470	82,630	50.279,920	-47.744,190
625+0,000	10,000	0,000	3,280	0,000	2.535,730	69,330	2,510	71,840	50.351,760	-47.816,030
626+0,000	10,000	0,000	3,500	0,000	2.535,730	66,350	1,440	67,790	50.419,550	-47.883,820
627+0,000	10,000	0,000	2,730	0,000	2.535,730	61,020	1,260	62,280	50.481,830	-47.946,100
628+0,000	10,000	0,760	0,050	7,620	2.543,350	27,320	0,470	27,790	50.509,620	-47.966,270
629+0,000	10,000	3,210	0,000	39,730	2.583,080	0,460	0,000	0,460	50.510,080	-47.927,000
630+0,000	10,000	0,110	0,370	33,180	2.616,260	3,590	0,110	3,700	50.513,780	-47.897,520
631+0,000	10,000	0,000	2,950	1,070	2.617,330	31,550	1,700	33,250	50.547,030	-47.929,700
632+0,000	10,000	0,000	2,580	0,000	2.617,330	53,060	2,270	55,330	50.602,360	-47.985,030
633+0,000	10,000	0,000	3,520	0,000	2.617,330	57,910	3,070	60,980	50.663,340	-48.046,010
634+0,000	10,000	0,000	3,200	0,000	2.617,330	63,280	3,920	67,200	50.730,540	-48.113,210
635+0,000	10,000	0,000	2,900	0,000	2.617,330	58,150	2,860	61,010	50.791,550	-48.174,220
636+0,000	10,000	0,000	2,980	0,000	2.617,330	56,390	2,400	58,790	50.850,340	-48.233,010
637+0,000	10,000	0,000	4,240	0,000	2.617,330	68,060	4,110	72,170	50.922,510	-48.305,180
638+0,000	10,000	0,000	4,470	0,000	2.617,330	80,430	6,640	87,070	51.009,580	-48.392,250
639+0,000	10,000	0,000	4,730	0,000	2.617,330	84,660	7,360	92,020	51.101,600	-48.484,270
640+0,000	10,000	0,000	4,750	0,000	2.617,330	88,050	6,800	94,850	51.196,450	-48.579,120
641+0,000	10,000	0,000	4,810	0,000	2.617,330	89,830	5,820	95,650	51.292,100	-48.674,770
642+0,000	10,000	0,000	3,560	0,000	2.617,330	80,240	3,540	83,780	51.375,880	-48.758,550
643+0,000	10,000	0,000	3,200	0,000	2.617,330	65,790	1,870	67,660	51.443,540	-48.826,210
644+0,000	10,000	2,090	0,000	20,950	2.638,280	30,930	1,090	32,020	51.475,560	-48.837,280
645+0,000	10,000	1,150	0,000	32,400	2.670,680	0,000	0,000	0,000	51.475,560	-48.804,880


Responsável técnica
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Corresponsável
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CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
646+0,000	10,000	0,000	3,620	11,450	2.682,130	33,690	2,500	36,190	51.511,750	-48.829,620
647+0,000	10,000	0,000	4,590	0,000	2.682,130	76,950	5,180	82,130	51.593,880	-48.911,750
648+0,000	10,000	0,000	4,730	0,000	2.682,130	86,470	6,740	93,210	51.687,090	-49.004,960
649+0,000	10,000	0,000	4,260	0,000	2.682,130	82,620	7,290	89,910	51.777,000	-49.094,870
650+0,000	10,000	0,000	5,170	0,000	2.682,130	86,290	8,000	94,290	51.871,290	-49.189,160
651+0,000	10,000	0,000	5,170	0,000	2.682,130	93,650	9,700	103,350	51.974,640	-49.292,510
652+0,000	10,000	0,000	4,650	0,000	2.682,130	90,160	8,030	98,190	52.072,830	-49.390,700
653+0,000	10,000	0,000	4,820	0,000	2.682,130	88,530	6,210	94,740	52.167,570	-49.485,440
654+0,000	10,000	0,000	5,030	0,000	2.682,130	91,510	7,080	98,590	52.266,160	-49.584,030
655+0,000	10,000	0,000	6,270	0,000	2.682,130	102,460	10,630	113,090	52.379,250	-49.697,120
656+0,000	10,000	0,000	5,520	0,000	2.682,130	106,790	11,190	117,980	52.497,230	-49.815,100
657+0,000	10,000	0,000	6,210	0,000	2.682,130	107,170	10,180	117,350	52.614,580	-49.932,450
658+0,000	10,000	0,000	6,670	0,000	2.682,130	115,580	13,230	128,810	52.743,390	-50.061,260
659+0,000	10,000	0,000	7,510	0,000	2.682,130	117,820	23,950	141,770	52.885,160	-50.203,030
660+0,000	10,000	0,000	4,070	0,000	2.682,130	97,440	18,300	115,740	53.000,900	-50.318,770
661+0,000	10,000	0,040	0,000	0,410	2.682,540	38,830	1,920	40,750	53.041,650	-50.359,110
662+0,000	10,000	0,000	2,560	0,410	2.682,950	24,990	0,690	25,680	53.067,330	-50.384,380
663+0,000	10,000	0,000	6,240	0,000	2.682,950	79,570	8,380	87,950	53.155,280	-50.472,330
664+0,000	10,000	0,000	6,250	0,000	2.682,950	111,980	12,900	124,880	53.280,160	-50.597,210
665+0,000	10,000	0,000	6,360	0,000	2.682,950	113,950	12,180	126,130	53.406,290	-50.723,340
666+0,000	10,000	0,000	3,930	0,000	2.682,950	93,970	8,980	102,950	53.509,240	-50.826,290
667+0,000	10,000	0,000	4,200	0,000	2.682,950	77,000	4,370	81,370	53.590,610	-50.907,660
668+0,000	10,000	0,000	1,570	0,000	2.682,950	55,310	2,450	57,760	53.648,370	-50.965,420
669+0,000	10,000	0,000	0,890	0,000	2.682,950	24,480	0,120	24,600	53.672,970	-50.990,020
670+0,000	10,000	0,000	1,840	0,000	2.682,950	26,480	0,800	27,280	53.700,250	-51.017,300
671+0,000	10,000	0,000	1,190	0,000	2.682,950	29,200	1,120	30,320	53.730,570	-51.047,620
672+0,000	10,000	0,230	0,440	2,320	2.685,270	15,810	0,480	16,290	53.746,860	-51.061,590
673+0,000	10,000	0,670	0,090	9,070	2.694,340	5,160	0,150	5,310	53.752,170	-51.057,830
674+0,000	10,000	0,640	0,090	13,190	2.707,530	1,820	0,050	1,870	53.754,040	-51.046,510
675+0,000	10,000	0,970	0,020	16,150	2.723,680	1,140	0,030	1,170	53.755,210	-51.031,530
676+0,000	10,000	3,620	0,000	45,900	2.769,580	0,220	0,000	0,220	53.755,430	-50.985,850
676+17,622	8,810	5,800	0,000	83,030	2.852,610	0,000	0,000	0,000	53.755,430	-50.902,820
677+0,000	1,190	5,390	0,000	13,310	2.865,920	0,000	0,000	0,000	53.755,430	-50.889,510
678+0,000	10,000	1,850	0,000	72,470	2.938,390	0,000	0,000	0,000	53.755,430	-50.817,040
679+0,000	10,000	0,120	0,770	19,740	2.958,130	7,540	0,110	7,650	53.763,080	-50.804,950
680+0,000	10,000	0,000	2,360	1,210	2.959,340	30,310	0,890	31,200	53.794,280	-50.834,940
681+0,000	10,000	0,000	3,030	0,000	2.959,340	52,480	1,420	53,900	53.848,180	-50.888,840
682+0,000	10,000	0,000	3,320	0,000	2.959,340	61,160	2,420	63,580	53.911,760	-50.952,420
683+0,000	10,000	0,000	2,710	0,000	2.959,340	57,640	2,660	60,300	53.972,060	-51.012,720
684+0,000	10,000	0,000	3,030	0,000	2.959,340	55,350	2,050	57,400	54.029,460	-51.070,120
685+0,000	10,000	0,000	3,390	0,000	2.959,340	61,590	2,660	64,250	54.093,710	-51.134,370
686+0,000	10,000	0,000	0,800	0,000	2.959,340	40,370	1,580	41,950	54.135,660	-51.176,320
687+0,000	10,000	0,000	0,710	0,000	2.959,340	14,440	0,740	15,180	54.150,840	-51.191,500
688+0,000	10,000	0,000	2,730	0,000	2.959,340	32,490	1,950	34,440	54.185,280	-51.225,940
689+0,000	10,000	0,000	3,590	0,000	2.959,340	59,640	3,550	63,190	54.248,470	-51.289,130
690+0,000	10,000	0,000	3,940	0,000	2.959,340	70,420	4,870	75,290	54.323,760	-51.364,420
691+0,000	10,000	0,000	4,770	0,000	2.959,340	80,750	6,390	87,140	54.410,900	-51.451,560
692+0,000	10,000	0,000	4,610	0,000	2.959,340	87,090	6,770	93,860	54.504,760	-51.545,420
693+0,000	10,000	0,000	4,910	0,000	2.959,340	88,400	6,830	95,230	54.599,990	-51.640,650
694+0,000	10,000	0,000	4,640	0,000	2.959,340	88,830	6,710	95,540	54.695,530	-51.736,190
695+0,000	10,000	0,000	5,150	0,000	2.959,340	91,620	6,350	97,970	54.793,500	-51.834,160
696+0,000	10,000	0,000	4,580	0,000	2.959,340	90,550	6,800	97,350	54.890,850	-51.931,510
697+0,000	10,000	0,000	5,090	0,000	2.959,340	89,760	7,000	96,760	54.987,610	-52.028,270
698+0,000	10,000	0,000	5,590	0,000	2.959,340	98,140	8,660	106,800	55.094,410	-52.135,070
699+0,000	10,000	0,000	4,540	0,000	2.959,340	93,750	7,490	101,240	55.195,650	-52.236,310
700+0,000	10,000	0,000	4,680	0,000	2.959,340	86,030	6,160	92,190	55.287,840	-52.328,500
701+0,000	10,000	0,000	3,890	0,000	2.959,340	80,030	5,720	85,750	55.373,590	-52.414,250
702+0,000	10,000	0,000	2,590	0,000	2.959,340	61,960	2,910	64,870	55.438,460	-52.479,120
702+11,858	5,930	0,000	2,900	0,000	2.959,340	31,270	1,300	32,570	55.471,030	-52.511,690
702+11,861	0,000	0,000	2,900	0,000	2.959,340	0,000	0,000	0,000	55.471,030	-52.511,690
703+0,000	4,070	0,000	2,630	0,000	2.959,340	21,510	1,000	22,510	55.493,540	-52.534,200


Responsável técnica
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Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		Vol. Acum. Aterro (m³)
704+0,000	10,000	0,000	2,030	0,000	2.959,340	44,640	1,930	46,570	55.540,110	-52.580,770
705+0,000	10,000	2,660	0,000	26,560	2.985,900	19,460	0,820	20,280	55.560,390	-52.574,490
706+0,000	10,000	3,670	0,000	63,290	3.049,190	0,000	0,000	0,000	55.560,390	-52.511,200
707+0,000	10,000	0,000	0,930	36,720	3.085,910	8,890	0,380	9,270	55.569,660	-52.483,750
708+0,000	10,000	0,030	1,730	0,290	3.086,200	25,410	1,150	26,560	55.596,220	-52.510,020
709+0,000	10,000	0,000	2,010	0,290	3.086,490	35,920	1,430	37,350	55.633,570	-52.547,080
710+0,000	10,000	0,000	1,750	0,000	3.086,490	36,520	1,080	37,600	55.671,170	-52.584,680
711+0,000	10,000	0,000	2,360	0,000	3.086,490	39,850	1,250	41,100	55.712,270	-52.625,780
712+0,000	10,000	0,000	2,550	0,000	3.086,490	47,440	1,670	49,110	55.761,380	-52.674,890
713+0,000	10,000	0,000	2,870	0,000	3.086,490	52,440	1,760	54,200	55.815,580	-52.729,090
714+0,000	10,000	0,000	3,030	0,000	3.086,490	56,900	2,050	58,950	55.874,530	-52.788,040
715+0,000	10,000	0,000	2,750	0,000	3.086,490	55,960	1,840	57,800	55.932,330	-52.845,840
716+0,000	10,000	0,000	2,240	0,000	3.086,490	48,800	1,110	49,910	55.982,240	-52.895,750
717+0,000	10,000	0,000	2,730	0,000	3.086,490	48,800	0,920	49,720	56.031,960	-52.945,470
718+0,000	10,000	0,000	3,030	0,000	3.086,490	55,950	1,700	57,650	56.089,610	-53.003,120
719+0,000	10,000	0,000	3,140	0,000	3.086,490	59,070	2,650	61,720	56.151,330	-53.064,840
720+0,000	10,000	0,030	1,770	0,270	3.086,760	47,450	1,660	49,110	56.200,440	-53.113,680
721+0,000	10,000	0,050	2,330	0,760	3.087,520	40,000	1,020	41,020	56.241,460	-53.153,940
722+0,000	10,000	0,000	2,990	0,480	3.088,000	51,470	1,730	53,200	56.294,660	-53.206,660
723+0,000	10,000	0,000	2,660	0,000	3.088,000	54,460	2,010	56,470	56.351,130	-53.263,130
724+0,000	10,000	0,000	1,260	0,000	3.088,000	37,920	1,210	39,130	56.390,260	-53.302,260
725+0,000	10,000	1,750	0,000	17,510	3.105,510	12,470	0,090	12,560	56.402,820	-53.297,310
726+0,000	10,000	0,640	0,230	23,880	3.129,390	2,300	0,000	2,300	56.405,120	-53.275,730
727+0,000	10,000	0,000	3,610	6,370	3.135,760	36,920	1,520	38,440	56.443,560	-53.307,800
728+0,000	10,000	0,000	3,760	0,000	3.135,760	70,200	3,530	73,730	56.517,290	-53.381,530
729+0,000	10,000	0,000	3,110	0,000	3.135,760	65,340	3,330	68,670	56.585,960	-53.450,200
730+0,000	10,000	0,000	3,330	0,000	3.135,760	61,030	3,300	64,330	56.650,290	-53.514,530
731+0,000	10,000	0,000	3,290	0,000	3.135,760	62,900	3,270	66,170	56.716,460	-53.580,700
732+0,000	10,000	0,000	3,520	0,000	3.135,760	65,020	3,070	68,090	56.784,550	-53.648,790
733+0,000	10,000	0,000	2,630	0,000	3.135,760	58,930	2,560	61,490	56.846,040	-53.710,280
734+0,000	10,000	0,000	3,120	0,000	3.135,760	55,370	2,160	57,530	56.903,570	-53.767,810
735+0,000	10,000	0,000	3,340	0,000	3.135,760	61,820	2,780	64,600	56.968,170	-53.832,410
736+0,000	10,000	0,000	3,460	0,000	3.135,760	65,630	2,400	68,030	57.036,200	-53.900,440
737+0,000	10,000	0,000	4,130	0,000	3.135,760	72,960	3,030	75,990	57.112,190	-53.976,430
738+0,000	10,000	0,000	3,630	0,000	3.135,760	73,950	3,710	77,660	57.189,850	-54.054,090
739+0,000	10,000	0,000	3,940	0,000	3.135,760	72,250	3,510	75,760	57.265,610	-54.129,850
740+0,000	10,000	0,000	4,900	0,000	3.135,760	84,170	4,320	88,490	57.354,100	-54.218,340
741+0,000	10,000	0,000	4,850	0,000	3.135,760	93,020	4,510	97,530	57.451,630	-54.315,870
742+0,000	10,000	0,000	4,640	0,000	3.135,760	89,740	5,170	94,910	57.546,540	-54.410,780
743+0,000	10,000	0,000	2,930	0,000	3.135,760	70,940	4,800	75,740	57.622,280	-54.486,520
744+0,000	10,000	0,860	0,020	8,620	3.144,380	27,900	1,660	29,560	57.651,840	-54.507,460
745+0,000	10,000	0,310	0,510	11,720	3.156,100	5,330	0,020	5,350	57.657,190	-54.501,090
746+0,000	10,000	0,000	3,960	3,100	3.159,200	43,760	0,920	44,680	57.701,870	-54.542,670
747+0,000	10,000	0,000	3,380	0,000	3.159,200	72,040	1,360	73,400	57.775,270	-54.616,070
748+0,000	10,000	0,000	2,950	0,000	3.159,200	62,240	1,090	63,330	57.838,600	-54.679,400
749+0,000	10,000	0,000	2,740	0,000	3.159,200	55,810	1,110	56,920	57.895,520	-54.736,320
750+0,000	10,000	0,000	1,750	0,000	3.159,200	44,190	0,770	44,960	57.940,480	-54.781,280
751+0,000	10,000	0,000	1,390	0,000	3.159,200	30,960	0,490	31,450	57.971,930	-54.812,730
752+0,000	10,000	0,000	2,100	0,000	3.159,200	34,250	0,620	34,870	58.006,800	-54.847,600
753+0,000	10,000	0,000	1,710	0,000	3.159,200	37,380	0,730	38,110	58.044,910	-54.885,710
754+0,000	10,000	0,040	1,240	0,370	3.159,570	29,150	0,400	29,550	58.074,460	-54.914,890
755+0,000	10,000	0,020	1,610	0,550	3.160,120	28,210	0,310	28,520	58.102,980	-54.942,860
756+0,000	10,000	0,000	2,120	0,180	3.160,300	36,770	0,520	37,290	58.140,270	-54.979,970
757+0,000	10,000	0,000	2,420	0,000	3.160,300	44,750	0,610	45,360	58.185,630	-55.025,330
758+0,000	10,000	0,000	3,030	0,000	3.160,300	53,880	0,640	54,520	58.240,150	-55.079,850
759+0,000	10,000	0,000	2,910	0,000	3.160,300	57,950	1,520	59,470	58.299,620	-55.139,320
760+0,000	10,000	0,000	3,480	0,000	3.160,300	61,910	2,050	63,960	58.363,580	-55.203,280
761+0,000	10,000	0,000	3,820	0,000	3.160,300	70,630	2,360	72,990	58.436,570	-55.276,270
762+0,000	10,000	0,000	4,270	0,000	3.160,300	77,960	2,880	80,840	58.517,410	-55.357,110
762+2,475	1,240	0,000	4,380	0,000	3.160,300	10,340	0,360	10,700	58.528,110	-55.367,810
763+0,000	8,760	0,000	4,260	0,000	3.160,300	72,360	3,350	75,710	58.603,820	-55.443,520


Responsável técnica
Engenheiro Everaldo Tadeu Bezerra de Castro
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Corresponsável
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CREA: 121248337-7

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
764+0,000	10,000	0,000	4,370	0,000	3.160,300	81,850	4,470	86,320	58.690,140	-55.529,840
765+0,000	10,000	0,000	4,190	0,000	3.160,300	81,640	3,920	85,560	58.775,700	-55.615,400
766+0,000	10,000	0,000	4,140	0,000	3.160,300	79,290	3,980	83,270	58.858,970	-55.698,670
767+0,000	10,000	0,000	3,960	0,000	3.160,300	76,740	4,310	81,050	58.940,020	-55.779,720
768+0,000	10,000	0,660	0,270	6,650	3.166,950	40,150	2,160	42,310	58.982,330	-55.815,380
769+0,000	10,000	1,010	0,000	16,710	3.183,660	2,630	0,050	2,680	58.985,010	-55.801,350
770+0,000	10,000	0,000	0,780	10,060	3.193,720	7,640	0,150	7,790	58.992,800	-55.799,080
771+0,000	10,000	0,000	2,770	0,000	3.193,720	34,540	1,000	35,540	59.028,340	-55.834,620
772+0,000	10,000	0,000	2,370	0,000	3.193,720	49,890	1,540	51,430	59.079,770	-55.886,050
773+0,000	10,000	0,000	2,570	0,000	3.193,720	48,130	1,240	49,370	59.129,140	-55.935,420
774+0,000	10,000	0,000	1,780	0,000	3.193,720	42,490	0,990	43,480	59.172,620	-55.978,900
775+0,000	10,000	0,000	2,840	0,000	3.193,720	44,590	1,600	46,190	59.218,810	-56.025,090
776+0,000	10,000	0,000	2,580	0,000	3.193,720	51,830	2,350	54,180	59.272,990	-56.079,270
777+0,000	10,000	0,000	1,130	0,000	3.193,720	35,060	2,020	37,080	59.310,070	-56.116,350
778+0,000	10,000	0,280	0,380	2,850	3.196,570	13,940	1,130	15,070	59.325,140	-56.128,570
779+0,000	10,000	3,520	0,000	38,000	3.234,570	3,470	0,310	3,780	59.328,920	-56.094,350
780+0,000	10,000	6,950	0,000	104,670	3.339,240	0,000	0,000	0,000	59.328,920	-55.989,680
781+0,000	10,000	6,800	0,000	137,470	3.476,710	0,000	0,000	0,000	59.328,920	-55.852,210
782+0,000	10,000	4,170	0,000	109,700	3.586,410	0,000	0,000	0,000	59.328,920	-55.742,510
783+0,000	10,000	0,680	0,000	48,590	3.635,000	0,000	0,000	0,000	59.328,920	-55.693,920
784+0,000	10,000	0,000	1,210	6,840	3.641,840	11,860	0,230	12,090	59.341,010	-55.699,170
785+0,000	10,000	0,000	2,340	0,000	3.641,840	34,400	1,090	35,490	59.376,500	-55.734,660
786+0,000	10,000	0,000	2,540	0,000	3.641,840	47,390	1,430	48,820	59.425,320	-55.783,480
787+0,000	10,000	0,000	3,030	0,000	3.641,840	53,830	1,840	55,670	59.480,990	-55.839,150
788+0,000	10,000	0,000	3,220	0,000	3.641,840	59,780	2,710	62,490	59.543,480	-55.901,640
789+0,000	10,000	0,000	3,370	0,000	3.641,840	62,930	3,000	65,930	59.609,410	-55.967,570
790+0,000	10,000	0,000	3,640	0,000	3.641,840	66,550	3,530	70,080	59.679,490	-56.037,650
791+0,000	10,000	0,000	2,960	0,000	3.641,840	63,410	2,550	65,960	59.745,450	-56.103,610
792+0,000	10,000	0,000	4,360	0,000	3.641,840	70,590	2,540	73,130	59.818,580	-56.176,740
793+0,000	10,000	0,000	4,890	0,000	3.641,840	88,540	3,950	92,490	59.911,070	-56.269,230
794+0,000	10,000	0,000	5,600	0,000	3.641,840	99,810	5,100	104,910	60.015,980	-56.374,140
795+0,000	10,000	0,000	5,680	0,000	3.641,840	104,910	7,900	112,810	60.128,790	-56.486,950
796+0,000	10,000	0,000	5,380	0,000	3.641,840	100,660	9,990	110,650	60.239,440	-56.597,600
797+0,000	10,000	0,460	0,400	4,640	3.646,480	52,620	5,200	57,820	60.297,260	-56.650,780
798+0,000	10,000	1,940	0,000	24,060	3.670,540	4,010	0,000	4,010	60.301,270	-56.630,730
799+0,000	10,000	0,000	1,670	19,420	3.689,960	15,850	0,890	16,740	60.318,010	-56.628,050
800+0,000	10,000	0,000	3,720	0,000	3.689,960	51,690	2,250	53,940	60.371,950	-56.681,990
801+0,000	10,000	0,000	5,920	0,000	3.689,960	90,310	6,130	96,440	60.468,390	-56.778,430
802+0,000	10,000	0,000	4,690	0,000	3.689,960	99,620	6,490	106,110	60.574,500	-56.884,540
803+0,000	10,000	0,000	5,970	0,000	3.689,960	100,040	6,530	106,570	60.681,070	-56.991,110
804+0,000	10,000	0,000	5,280	0,000	3.689,960	103,970	8,490	112,460	60.793,530	-57.103,570
805+0,000	10,000	0,000	5,470	0,000	3.689,960	100,140	7,320	107,460	60.900,980	-57.211,030
806+0,000	10,000	0,000	5,600	0,000	3.689,960	102,450	8,280	110,730	61.011,720	-57.321,760
807+0,000	10,000	0,000	5,000	0,000	3.689,960	98,670	7,390	106,060	61.117,780	-57.427,820
808+0,000	10,000	0,000	5,250	0,000	3.689,960	97,030	5,460	102,490	61.220,270	-57.530,310
809+0,000	10,000	0,000	4,900	0,000	3.689,960	94,890	6,570	101,460	61.321,730	-57.631,770
810+0,000	10,000	0,000	4,940	0,000	3.689,960	90,270	8,150	98,420	61.420,150	-57.730,190
811+0,000	10,000	0,000	4,520	0,000	3.689,960	87,430	7,200	94,630	61.514,780	-57.824,820
812+0,000	10,000	0,000	4,320	0,000	3.689,960	82,800	5,590	88,390	61.603,170	-57.913,210
813+0,000	10,000	0,000	4,500	0,000	3.689,960	82,600	5,620	88,220	61.691,390	-58.001,430
814+0,000	10,000	0,000	2,070	0,000	3.689,960	61,860	3,870	65,730	61.757,120	-58.067,160
815+0,000	10,000	2,920	0,000	29,240	3.719,200	19,740	0,950	20,690	61.777,810	-58.058,610
816+0,000	10,000	5,400	0,000	83,280	3.802,480	0,000	0,000	0,000	61.777,810	-57.975,330
817+0,000	10,000	1,010	0,000	64,120	3.866,600	0,000	0,000	0,000	61.777,810	-57.911,210
818+0,000	10,000	0,000	2,530	10,080	3.876,680	24,370	0,940	25,310	61.803,120	-57.926,440
819+0,000	10,000	0,000	3,350	0,000	3.876,680	56,050	2,760	58,810	61.861,930	-57.985,250
820+0,000	10,000	0,000	3,740	0,000	3.876,680	66,930	3,980	70,910	61.932,840	-58.056,160
821+0,000	10,000	0,000	3,610	0,000	3.876,680	69,690	3,860	73,550	62.006,390	-58.129,710
822+0,000	10,000	0,000	4,110	0,000	3.876,680	72,840	4,430	77,270	62.083,660	-58.206,980
823+0,000	10,000	0,000	3,570	0,000	3.876,680	72,770	4,070	76,840	62.160,500	-58.283,820
824+0,000	10,000	0,000	2,880	0,000	3.876,680	61,450	3,050	64,500	62.225,000	-58.348,320


Responsável técnica
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Volume de Terraplenagem - Estrada Cabaçu

Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		
825+0,000	10,000	0,000	4,020	0,000	3.876,680	64,900	4,070	68,970	62.293,970	-58.417,290
826+0,000	10,000	0,000	3,410	0,000	3.876,680	70,070	4,250	74,320	62.368,290	-58.491,610
827+0,000	10,000	0,000	3,390	0,000	3.876,680	64,850	3,150	68,000	62.436,290	-58.559,610
828+0,000	10,000	0,000	3,810	0,000	3.876,680	68,560	3,360	71,920	62.508,210	-58.631,530
829+0,000	10,000	0,000	3,770	0,000	3.876,680	71,870	3,880	75,750	62.583,960	-58.707,280
830+0,000	10,000	0,000	3,680	0,000	3.876,680	70,250	4,280	74,530	62.658,490	-58.781,810
831+0,000	10,000	0,000	3,620	0,000	3.876,680	68,290	4,700	72,990	62.731,480	-58.854,800
832+0,000	10,000	0,000	2,770	0,000	3.876,680	60,990	2,910	63,900	62.795,380	-58.918,700
833+0,000	10,000	0,000	3,520	0,000	3.876,680	60,100	2,810	62,910	62.858,290	-58.981,610
834+0,000	10,000	0,000	4,110	0,000	3.876,680	71,350	4,960	76,310	62.934,600	-59.057,920
835+0,000	10,000	0,000	3,910	0,000	3.876,680	75,030	5,200	80,230	63.014,830	-59.138,150
836+0,000	10,000	0,000	4,790	0,000	3.876,680	81,240	5,710	86,950	63.101,780	-59.225,100
837+0,000	10,000	0,000	4,050	0,000	3.876,680	81,650	6,730	88,380	63.190,160	-59.313,480
838+0,000	10,000	0,690	0,010	6,870	3.883,550	37,280	3,360	40,640	63.230,800	-59.347,250
839+0,000	10,000	2,800	0,000	34,900	3.918,450	0,110	0,010	0,120	63.230,920	-59.312,470
840+0,000	10,000	0,000	1,200	28,030	3.946,480	11,470	0,510	11,980	63.242,900	-59.296,420
841+0,000	10,000	0,000	4,270	0,000	3.946,480	51,630	3,020	54,650	63.297,550	-59.351,070
842+0,000	10,000	0,000	5,470	0,000	3.946,480	90,490	6,920	97,410	63.394,960	-59.448,480
843+0,000	10,000	0,000	6,440	0,000	3.946,480	105,310	13,830	119,140	63.514,100	-59.567,620
844+0,000	10,000	0,000	7,130	0,000	3.946,480	113,230	22,490	135,720	63.649,820	-59.703,340
845+0,000	10,000	0,000	7,450	0,000	3.946,480	117,510	28,320	145,830	63.795,650	-59.849,170
846+0,000	10,000	0,000	7,960	0,000	3.946,480	119,200	34,880	154,080	63.949,730	-60.003,250
847+0,000	10,000	0,000	7,900	0,000	3.946,480	119,910	38,620	158,530	64.108,260	-60.161,780
848+0,000	10,000	0,000	8,010	0,000	3.946,480	119,950	39,150	159,100	64.267,360	-60.320,880
849+0,000	10,000	0,000	8,860	0,000	3.946,480	119,990	48,710	168,700	64.436,060	-60.489,580
850+0,000	10,000	0,000	9,420	0,000	3.946,480	119,990	62,790	182,780	64.618,840	-60.672,360
851+0,000	10,000	0,000	8,420	0,000	3.946,480	120,000	58,470	178,470	64.797,310	-60.850,830
852+0,000	10,000	0,000	8,470	0,000	3.946,480	120,000	48,980	168,980	64.966,290	-61.019,810
853+0,000	10,000	0,000	6,790	0,000	3.946,480	118,730	33,920	152,650	65.118,940	-61.172,460
854+0,000	10,000	0,000	6,990	0,000	3.946,480	117,900	19,870	137,770	65.256,710	-61.310,230
855+0,000	10,000	0,000	5,560	0,000	3.946,480	110,400	15,090	125,490	65.382,200	-61.435,720
856+0,000	10,000	0,000	4,500	0,000	3.946,480	92,900	7,690	100,590	65.482,790	-61.536,310
857+0,000	10,000	0,000	3,720	0,000	3.946,480	76,580	5,540	82,120	65.564,910	-61.618,430
858+0,000	10,000	0,000	3,760	0,000	3.946,480	70,200	4,610	74,810	65.639,720	-61.693,240
859+0,000	10,000	0,000	3,200	0,000	3.946,480	64,800	4,890	69,690	65.709,410	-61.762,930
860+0,000	10,000	0,000	2,490	0,000	3.946,480	52,160	4,790	56,950	65.766,360	-61.819,880
861+0,000	10,000	0,000	2,250	0,000	3.946,480	43,390	4,010	47,400	65.813,760	-61.867,280
862+0,000	10,000	0,640	0,080	6,430	3.952,910	21,520	1,780	23,300	65.837,060	-61.884,150
863+0,000	10,000	3,850	0,000	44,930	3.997,840	0,780	0,030	0,810	65.837,870	-61.840,030
864+0,000	10,000	0,790	0,000	46,350	4.044,190	0,000	0,000	0,000	65.837,870	-61.793,680
865+0,000	10,000	0,000	1,640	7,850	4.052,040	15,580	0,870	16,450	65.854,320	-61.802,280
866+0,000	10,000	0,000	1,870	0,000	4.052,040	33,320	1,820	35,140	65.889,460	-61.837,420
866+19,658	9,830	0,000	1,930	0,000	4.052,040	35,520	1,820	37,340	65.926,800	-61.874,760
867+0,000	0,170	0,000	1,930	0,000	4.052,040	0,630	0,030	0,660	65.927,460	-61.875,420
868+0,000	10,000	0,000	2,240	0,000	4.052,040	39,610	2,090	41,700	65.969,160	-61.917,120
869+0,000	10,000	0,000	2,680	0,000	4.052,040	46,310	2,870	49,180	66.018,340	-61.966,300
870+0,000	10,000	0,000	3,090	0,000	4.052,040	53,900	3,830	57,730	66.076,070	-62.024,030
871+0,000	10,000	0,000	3,050	0,000	4.052,040	56,930	4,490	61,420	66.137,490	-62.085,450
872+0,000	10,000	0,000	3,570	0,000	4.052,040	60,830	5,340	66,170	66.203,660	-62.151,620
873+0,000	10,000	0,000	4,220	0,000	4.052,040	71,240	6,620	77,860	66.281,520	-62.229,480
874+0,000	10,000	0,000	4,890	0,000	4.052,040	83,000	8,070	91,070	66.372,590	-62.320,550
875+0,000	10,000	0,000	5,690	0,000	4.052,040	94,890	10,840	105,730	66.478,320	-62.426,280
876+0,000	10,000	0,000	6,250	0,000	4.052,040	104,550	14,820	119,370	66.597,690	-62.545,650
877+0,000	10,000	0,000	6,500	0,000	4.052,040	110,800	16,730	127,530	66.725,220	-62.673,180
878+0,000	10,000	0,000	5,720	0,000	4.052,040	108,100	14,140	122,240	66.847,460	-62.795,420
879+0,000	10,000	0,000	4,330	0,000	4.052,040	91,060	9,480	100,540	66.948,000	-62.895,960
880+0,000	10,000	0,000	5,510	0,000	4.052,040	89,100	9,320	98,420	67.046,420	-62.994,380
881+0,000	10,000	0,000	8,040	0,000	4.052,040	109,420	26,050	135,470	67.181,890	-63.129,850
882+0,000	10,000	0,000	8,470	0,000	4.052,040	120,000	45,050	165,050	67.346,940	-63.294,900
883+0,000	10,000	0,000	7,320	0,000	4.052,040	118,830	39,070	157,900	67.504,840	-63.452,800

Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
884+0,000	10,000	0,000	5,730	0,000	4.052,040	109,110	21,430	130,540	67.635,380	-63.583,340
885+0,000	10,000	0,000	4,320	0,000	4.052,040	89,540	11,010	100,550	67.735,930	-63.683,890
886+0,000	10,000	0,000	3,550	0,000	4.052,040	71,830	6,870	78,700	67.814,630	-63.762,590
887+0,000	10,000	0,000	2,920	0,000	4.052,040	59,660	4,950	64,610	67.879,240	-63.827,200
888+0,000	10,000	0,000	3,150	0,000	4.052,040	56,100	4,510	60,610	67.939,850	-63.887,810
889+0,000	10,000	0,000	3,760	0,000	4.052,040	63,590	5,430	69,020	68.008,870	-63.956,830
890+0,000	10,000	0,000	3,750	0,000	4.052,040	69,800	5,260	75,060	68.083,930	-64.031,890
891+0,000	10,000	0,000	5,650	0,000	4.052,040	86,020	8,020	94,040	68.177,970	-64.125,930
892+0,000	10,000	0,000	6,810	0,000	4.052,040	109,670	14,950	124,620	68.302,590	-64.250,550
893+0,000	10,000	0,000	6,640	0,000	4.052,040	116,710	17,750	134,460	68.437,050	-64.385,010
894+0,000	10,000	0,000	6,430	0,000	4.052,040	115,170	15,560	130,730	68.567,780	-64.515,740
895+0,000	10,000	0,000	6,520	0,000	4.052,040	115,540	13,970	129,510	68.697,290	-64.645,250
896+0,000	10,000	0,000	6,180	0,000	4.052,040	113,770	13,170	126,940	68.824,230	-64.772,170
897+0,000	10,000	0,000	5,600	0,000	4.052,040	106,860	10,880	117,740	68.941,970	-64.889,930
898+0,000	10,000	0,000	5,150	0,000	4.052,040	98,610	8,820	107,430	69.049,400	-64.997,360
898+0,058	0,030	0,000	5,140	0,000	4.052,040	0,280	0,020	0,300	69.049,700	-64.997,660
898+0,058	0,000	0,000	5,140	0,000	4.052,040	0,000	0,000	0,000	69.049,700	-64.997,660
899+0,000	9,970	0,000	4,780	0,000	4.052,040	90,730	8,270	99,000	69.148,700	-65.096,660
900+0,000	10,000	0,000	4,320	0,000	4.052,040	83,220	7,830	91,050	69.239,750	-65.187,710
901+0,000	10,000	0,000	3,880	0,000	4.052,040	75,220	6,800	82,020	69.321,770	-65.269,730
902+0,000	10,000	0,000	2,810	0,000	4.052,040	62,170	4,780	66,950	69.388,720	-65.336,680
903+0,000	10,000	0,000	2,920	0,000	4.052,040	54,350	2,990	57,340	69.446,060	-65.394,020
904+0,000	10,000	0,000	2,370	0,000	4.052,040	50,100	2,770	52,870	69.498,930	-65.446,890
905+0,000	10,000	2,530	0,000	25,310	4.077,350	22,200	1,460	23,660	69.522,590	-65.445,240
906+0,000	10,000	5,590	0,000	81,210	4.158,560	0,000	0,000	0,000	69.522,590	-65.364,030
907+0,000	10,000	3,160	0,000	87,530	4.246,090	0,000	0,000	0,000	69.522,590	-65.276,500
908+0,000	10,000	1,050	0,000	42,170	4.288,260	0,000	0,000	0,000	69.522,590	-65.234,330
909+0,000	10,000	0,040	0,380	10,920	4.299,180	3,760	0,000	3,760	69.526,350	-65.227,170
910+0,000	10,000	0,000	2,030	0,380	4.299,560	23,740	0,360	24,100	69.550,450	-65.250,890
911+0,000	10,000	0,000	1,820	0,000	4.299,560	37,170	1,330	38,500	69.588,950	-65.289,390
912+0,000	10,000	0,000	2,240	0,000	4.299,560	38,350	2,180	40,530	69.629,480	-65.329,920
913+0,000	10,000	0,000	1,990	0,000	4.299,560	40,010	2,290	42,300	69.671,780	-65.372,220
914+0,000	10,000	0,000	1,900	0,000	4.299,560	37,100	1,810	38,910	69.710,690	-65.411,130
915+0,000	10,000	0,000	2,130	0,000	4.299,560	38,400	1,900	40,300	69.750,990	-65.451,430
916+0,000	10,000	0,000	3,290	0,000	4.299,560	51,870	2,310	54,180	69.805,170	-65.505,610
917+0,000	10,000	0,050	1,320	0,510	4.300,070	44,360	1,700	46,060	69.851,230	-65.551,160
918+0,000	10,000	0,000	1,760	0,510	4.300,580	30,090	0,750	30,840	69.882,070	-65.581,490
919+0,000	10,000	0,000	1,650	0,000	4.300,580	33,010	1,130	34,140	69.916,210	-65.615,630
920+0,000	10,000	0,000	2,570	0,000	4.300,580	40,040	2,120	42,160	69.958,370	-65.657,790
921+0,000	10,000	0,000	1,860	0,000	4.300,580	42,000	2,220	44,220	70.002,590	-65.702,010
922+0,000	10,000	1,680	0,000	16,850	4.317,430	17,520	1,040	18,560	70.021,150	-65.703,720
923+0,000	10,000	4,610	0,000	62,950	4.380,380	0,000	0,000	0,000	70.021,150	-65.640,770
924+0,000	10,000	0,990	0,000	55,970	4.436,350	0,000	0,000	0,000	70.021,150	-65.584,800
925+0,000	10,000	0,000	3,060	9,870	4.446,220	28,560	2,050	30,610	70.051,760	-65.605,540
926+0,000	10,000	0,000	3,970	0,000	4.446,220	65,780	4,510	70,290	70.122,050	-65.675,830
927+0,000	10,000	0,000	5,130	0,000	4.446,220	84,120	6,860	90,980	70.213,030	-65.766,810
928+0,000	10,000	0,000	5,490	0,000	4.446,220	97,090	9,120	106,210	70.319,240	-65.873,020
929+0,000	10,000	0,000	5,420	0,000	4.446,220	99,790	9,290	109,080	70.428,320	-65.982,100
930+0,000	10,000	0,000	4,610	0,000	4.446,220	92,460	7,810	100,270	70.528,590	-66.082,370
931+0,000	10,000	0,000	4,530	0,000	4.446,220	84,380	6,970	91,350	70.619,940	-66.173,720
932+0,000	10,000	0,000	4,710	0,000	4.446,220	85,560	6,760	92,320	70.712,260	-66.266,040
933+0,000	10,000	0,000	4,220	0,000	4.446,220	83,810	5,450	89,260	70.801,520	-66.355,300
934+0,000	10,000	0,000	4,110	0,000	4.446,220	79,320	4,010	83,330	70.884,850	-66.438,630
935+0,000	10,000	0,000	3,840	0,000	4.446,220	76,700	2,810	79,510	70.964,360	-66.518,140
936+0,000	10,000	0,000	5,220	0,000	4.446,220	85,780	4,770	90,550	71.054,910	-66.608,690
937+0,000	10,000	0,000	5,100	0,000	4.446,220	95,100	8,060	103,160	71.158,070	-66.711,850
938+0,000	10,000	0,000	1,500	0,000	4.446,220	61,280	4,680	65,960	71.224,030	-66.777,810
939+0,000	10,000	2,830	0,000	28,320	4.474,540	14,790	0,180	14,970	71.239,000	-66.764,460
940+0,000	10,000	0,200	0,020	30,300	4.504,840	0,230	0,000	0,230	71.239,230	-66.734,390
941+0,000	10,000	0,000	2,970	1,980	4.506,820	28,640	1,280	29,920	71.269,150	-66.762,330


Responsável técnica
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Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
942+0,000	10,000	0,000	4,290	0,000	4.506,820	68,770	3,810	72,580	71.341,730	-66.834,910
943+0,000	10,000	0,000	5,530	0,000	4.506,820	91,180	7,050	98,230	71.439,960	-66.933,140
944+0,000	10,000	0,000	5,460	0,000	4.506,820	100,330	9,580	109,910	71.549,870	-67.043,050
945+0,000	10,000	0,000	5,540	0,000	4.506,820	99,390	10,580	109,970	71.659,840	-67.153,020
946+0,000	10,000	0,000	4,850	0,000	4.506,820	94,610	9,250	103,860	71.763,700	-67.256,880
947+0,000	10,000	0,000	5,730	0,000	4.506,820	96,780	8,990	105,770	71.869,470	-67.362,650
948+0,000	10,000	0,000	5,130	0,000	4.506,820	99,380	9,210	108,590	71.978,060	-67.471,240
949+0,000	10,000	0,000	5,650	0,000	4.506,820	98,840	8,900	107,740	72.085,800	-67.578,980
950+0,000	10,000	0,000	5,370	0,000	4.506,820	101,120	8,990	110,110	72.195,910	-67.689,090
951+0,000	10,000	0,000	5,410	0,000	4.506,820	99,680	8,070	107,750	72.303,660	-67.796,840
952+0,000	10,000	0,000	5,600	0,000	4.506,820	102,130	7,980	110,110	72.413,770	-67.906,950
953+0,000	10,000	0,000	5,080	0,000	4.506,820	99,370	7,430	106,800	72.520,570	-68.013,750
954+0,000	10,000	0,000	4,100	0,000	4.506,820	86,370	5,440	91,810	72.612,380	-68.105,560
955+0,000	10,000	0,000	3,020	0,000	4.506,820	66,820	4,390	71,210	72.683,590	-68.176,770
956+0,000	10,000	2,760	0,000	27,590	4.534,410	27,730	2,450	30,180	72.713,770	-68.179,360
957+0,000	10,000	0,550	0,040	33,110	4.567,520	0,400	0,000	0,400	72.714,170	-68.146,650
958+0,000	10,000	0,000	2,230	5,520	4.573,040	21,560	1,180	22,740	72.736,910	-68.163,870
959+0,000	10,000	0,000	4,450	0,000	4.573,040	62,250	4,540	66,790	72.803,700	-68.230,660
960+0,000	10,000	0,000	6,290	0,000	4.573,040	98,430	8,950	107,380	72.911,080	-68.338,040
961+0,000	10,000	0,000	5,870	0,000	4.573,040	110,970	10,660	121,630	73.032,710	-68.459,670
962+0,000	10,000	0,000	6,060	0,000	4.573,040	108,890	10,420	119,310	73.152,020	-68.578,980
963+0,000	10,000	0,000	6,060	0,000	4.573,040	109,420	11,820	121,240	73.273,260	-68.700,220
964+0,000	10,000	0,000	6,860	0,000	4.573,040	112,350	16,890	129,240	73.402,500	-68.829,460
965+0,000	10,000	0,000	5,110	0,000	4.573,040	105,960	13,770	119,730	73.522,230	-68.949,190
966+0,000	10,000	0,000	5,650	0,000	4.573,040	101,110	6,540	107,650	73.629,880	-69.056,840
967+0,000	10,000	0,000	5,820	0,000	4.573,040	106,820	7,920	114,740	73.744,620	-69.171,580
968+0,000	10,000	0,000	5,800	0,000	4.573,040	107,010	9,230	116,240	73.860,860	-69.287,820
969+0,000	10,000	0,000	5,700	0,000	4.573,040	105,920	9,100	115,020	73.975,880	-69.402,840
970+0,000	10,000	0,000	5,800	0,000	4.573,040	106,560	8,420	114,980	74.090,860	-69.517,820
971+0,000	10,000	0,000	4,920	0,000	4.573,040	101,130	6,040	107,170	74.198,030	-69.624,990
972+0,000	10,000	0,000	5,860	0,000	4.573,040	101,850	5,930	107,780	74.305,810	-69.732,770
973+0,000	10,000	0,000	1,150	0,000	4.573,040	66,370	3,750	70,120	74.375,930	-69.802,890
974+0,000	10,000	3,280	0,000	32,800	4.605,840	11,460	0,050	11,510	74.387,440	-69.781,600
975+0,000	10,000	0,580	0,110	38,630	4.644,470	1,050	0,060	1,110	74.388,550	-69.744,080
976+0,000	10,000	0,000	4,070	5,830	4.650,300	40,200	1,580	41,780	74.430,330	-69.780,030
977+0,000	10,000	0,000	5,130	0,000	4.650,300	87,300	4,640	91,940	74.522,270	-69.871,970
978+0,000	10,000	0,000	6,320	0,000	4.650,300	106,300	8,180	114,480	74.636,750	-69.986,450
979+0,000	10,000	0,000	6,110	0,000	4.650,300	113,650	10,650	124,300	74.761,050	-70.110,750
980+0,000	10,000	0,000	5,680	0,000	4.650,300	107,180	10,660	117,840	74.878,890	-70.228,590
981+0,000	10,000	0,000	5,230	0,000	4.650,300	100,590	8,440	109,030	74.987,920	-70.337,620
982+0,000	10,000	0,000	5,720	0,000	4.650,300	101,630	7,790	109,420	75.097,340	-70.447,040
983+0,000	10,000	0,000	5,760	0,000	4.650,300	107,040	7,680	114,720	75.212,060	-70.561,760
984+0,000	10,000	0,000	5,890	0,000	4.650,300	109,480	6,970	116,450	75.328,510	-70.678,210
985+0,000	10,000	0,000	5,830	0,000	4.650,300	109,860	7,320	117,180	75.445,690	-70.795,390
986+0,000	10,000	0,000	4,550	0,000	4.650,300	97,920	5,840	103,760	75.549,450	-70.899,150
987+0,000	10,000	0,000	4,350	0,000	4.650,300	84,870	4,150	89,020	75.638,470	-70.988,170
988+0,000	10,000	0,000	1,320	0,000	4.650,300	54,470	2,250	56,720	75.695,190	-71.044,890
989+0,000	10,000	0,640	0,110	6,440	4.656,740	13,790	0,460	14,250	75.709,440	-71.052,700
990+0,000	10,000	3,070	0,030	37,180	4.693,920	1,260	0,160	1,420	75.710,860	-71.016,940
991+0,000	10,000	3,070	0,000	61,390	4.755,310	0,300	0,040	0,340	75.711,200	-70.955,890
992+0,000	10,000	0,000	2,150	30,660	4.785,970	20,320	1,150	21,470	75.732,670	-70.946,700
993+0,000	10,000	0,000	5,970	0,000	4.785,970	75,480	5,650	81,130	75.813,800	-71.027,830
994+0,000	10,000	0,000	7,150	0,000	4.785,970	113,670	17,470	131,140	75.944,940	-71.158,970
995+0,000	10,000	0,000	6,970	0,000	4.785,970	117,050	24,160	141,210	76.086,150	-71.300,180
995+15,800	7,900	0,000	6,920	0,000	4.785,970	93,630	16,100	109,730	76.195,880	-71.409,910
995+15,802	0,000	0,000	6,920	0,000	4.785,970	0,020	0,000	0,020	76.195,900	-71.409,930
996+0,000	2,100	0,000	6,850	0,000	4.785,970	25,190	3,720	28,910	76.224,810	-71.438,840
997+0,000	10,000	0,000	6,470	0,000	4.785,970	118,580	14,640	133,220	76.358,030	-71.572,060
998+0,000	10,000	0,000	5,540	0,000	4.785,970	110,840	9,190	120,030	76.478,060	-71.692,090
999+0,000	10,000	0,000	6,000	0,000	4.785,970	107,400	7,950	115,350	76.593,410	-71.807,440


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Volume de Terraplenagem - Estrada Cabaçu

Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro			Dif. Vol. Acum. (m³)	
						Acabamento (m³)	Corpo (m³)	Total (m³)		
1000+0,000	10,000	0,000	5,500	0,000	4.785,970	105,920	9,040	114,960	76.708,370	-71.922,400
1001+0,000	10,000	0,000	4,690	0,000	4.785,970	95,530	6,380	101,910	76.810,280	-72.024,310
1002+0,000	10,000	0,000	5,510	0,000	4.785,970	95,960	6,050	102,010	76.912,290	-72.126,320
1003+0,000	10,000	0,000	5,300	0,000	4.785,970	100,300	7,750	108,050	77.020,340	-72.234,370
1004+0,000	10,000	0,000	3,620	0,000	4.785,970	84,280	4,950	89,230	77.109,570	-72.323,600
1005+0,000	10,000	0,000	3,520	0,000	4.785,970	68,920	2,520	71,440	77.181,010	-72.395,040
1006+0,000	10,000	0,000	4,400	0,000	4.785,970	74,530	4,630	79,160	77.260,170	-72.474,200
1007+0,000	10,000	0,000	3,370	0,000	4.785,970	72,280	5,430	77,710	77.337,880	-72.551,910
1008+0,000	10,000	0,000	2,870	0,000	4.785,970	58,520	3,930	62,450	77.400,330	-72.614,360
1008+0,166	0,080	0,000	2,870	0,000	4.785,970	0,450	0,030	0,480	77.400,810	-72.614,840
1009+0,000	9,920	0,000	2,750	0,000	4.785,970	52,440	3,250	55,690	77.456,500	-72.670,530
1010+0,000	10,000	0,000	2,270	0,000	4.785,970	47,290	2,820	50,110	77.506,610	-72.720,640
1011+0,000	10,000	0,000	1,930	0,000	4.785,970	39,440	2,510	41,950	77.548,560	-72.762,590
1012+0,000	10,000	0,000	6,400	0,000	4.785,970	71,620	11,650	83,270	77.631,830	-72.845,860
1013+0,000	10,000	0,000	3,870	0,000	4.785,970	88,200	14,430	102,630	77.734,460	-72.948,490
1014+0,000	10,000	0,000	3,760	0,000	4.785,970	65,310	10,940	76,250	77.810,710	-73.024,740
1015+0,000	10,000	0,000	5,160	0,000	4.785,970	69,050	20,130	89,180	77.899,890	-73.113,920
1016+0,000	10,000	0,000	5,800	0,000	4.785,970	84,560	25,060	109,620	78.009,510	-73.223,540
1017+0,000	10,000	0,000	6,510	0,000	4.785,970	98,790	24,310	123,100	78.132,610	-73.346,640
1018+0,000	10,000	0,000	9,240	0,000	4.785,970	112,580	44,890	157,470	78.290,080	-73.504,110
1019+0,000	10,000	0,000	10,090	0,000	4.785,970	119,990	73,330	193,320	78.483,400	-73.697,430
1020+0,000	10,000	0,000	8,400	0,000	4.785,970	119,990	64,990	184,980	78.668,380	-73.882,410
1021+0,000	10,000	0,000	7,630	0,000	4.785,970	119,810	40,500	160,310	78.828,690	-74.042,720
1022+0,000	10,000	0,000	8,170	0,000	4.785,970	119,810	38,150	157,960	78.986,650	-74.200,680
1023+0,000	10,000	0,000	13,390	0,000	4.785,970	119,990	95,610	215,600	79.202,250	-74.416,280
1024+0,000	10,000	0,000	16,730	0,000	4.785,970	120,000	181,250	301,250	79.503,500	-74.717,530
1025+0,000	10,000	0,000	16,220	0,000	4.785,970	119,990	209,580	329,570	79.833,070	-75.047,100
1026+0,000	10,000	0,000	15,760	0,000	4.785,970	120,000	199,840	319,840	80.152,910	-75.366,940
1027+0,000	10,000	0,000	14,750	0,000	4.785,970	120,000	185,050	305,050	80.457,960	-75.671,990
1028+0,000	10,000	0,000	13,350	0,000	4.785,970	119,990	161,000	280,990	80.738,950	-75.952,980
1029+0,000	10,000	0,000	11,290	0,000	4.785,970	120,000	126,400	246,400	80.985,350	-76.199,380
1030+0,000	10,000	0,000	7,590	0,000	4.785,970	120,000	68,790	188,790	81.174,140	-76.388,170
1031+0,000	10,000	0,000	2,020	0,000	4.785,970	79,750	16,420	96,170	81.270,310	-76.484,340
1032+0,000	10,000	0,000	3,200	0,000	4.785,970	50,180	2,060	52,240	81.322,550	-76.536,580
1033+0,000	10,000	0,000	7,510	0,000	4.785,970	89,410	17,680	107,090	81.429,640	-76.643,670
1034+0,000	10,000	0,000	5,420	0,000	4.785,970	110,530	18,720	129,250	81.558,890	-76.772,920
1035+0,000	10,000	0,000	4,660	0,000	4.785,970	96,030	4,750	100,780	81.659,670	-76.873,700
1036+0,000	10,000	0,000	6,050	0,000	4.785,970	100,210	6,930	107,140	81.766,810	-76.980,840
1037+0,000	10,000	0,000	5,640	0,000	4.785,970	107,240	9,700	116,940	81.883,750	-77.097,780
1038+0,000	10,000	0,000	4,580	0,000	4.785,970	95,700	6,530	102,230	81.985,980	-77.200,010
1039+0,000	10,000	0,000	4,140	0,000	4.785,970	84,190	3,000	87,190	82.073,170	-77.287,200
1040+0,000	10,000	0,000	6,800	0,000	4.785,970	98,570	10,790	109,360	82.182,530	-77.396,560
1041+0,000	10,000	0,000	5,910	0,000	4.785,970	112,840	14,290	127,130	82.309,660	-77.523,690
1042+0,000	10,000	0,000	5,250	0,000	4.785,970	104,110	7,490	111,600	82.421,260	-77.635,290
1043+0,000	10,000	0,000	4,500	0,000	4.785,970	92,900	4,560	97,460	82.518,720	-77.732,750
1044+0,000	10,000	0,000	5,390	0,000	4.785,970	92,980	5,950	98,930	82.617,650	-77.831,680
1045+0,000	10,000	0,000	5,340	0,000	4.785,970	99,920	7,420	107,340	82.724,990	-77.939,020
1046+0,000	10,000	0,000	4,530	0,000	4.785,970	92,910	5,810	98,720	82.823,710	-78.037,740
1047+0,000	10,000	0,000	2,820	0,000	4.785,970	70,570	2,910	73,480	82.897,190	-78.111,220
1048+0,000	10,000	0,120	0,370	1,180	4.787,150	31,240	0,610	31,850	82.929,040	-78.141,890
1049+0,000	10,000	3,260	0,000	33,800	4.820,950	3,600	0,090	3,690	82.932,730	-78.111,780
1050+0,000	10,000	0,150	0,450	34,080	4.855,030	4,450	0,070	4,520	82.937,250	-78.082,220
1051+0,000	10,000	0,000	4,400	1,450	4.856,480	44,820	3,740	48,560	82.985,810	-78.129,330
1052+0,000	10,000	0,000	4,090	0,000	4.856,480	78,100	6,890	84,990	83.070,800	-78.214,320
1053+0,000	10,000	0,000	4,060	0,000	4.856,480	76,410	5,110	81,520	83.152,320	-78.295,840
1054+0,000	10,000	0,000	4,200	0,000	4.856,480	78,640	3,980	82,620	83.234,940	-78.378,460
1055+0,000	10,000	0,000	5,120	0,000	4.856,480	87,470	5,770	93,240	83.328,180	-78.471,700
1056+0,000	10,000	0,000	5,510	0,000	4.856,480	98,680	7,650	106,330	83.434,510	-78.578,030
1057+0,000	10,000	0,000	5,040	0,000	4.856,480	98,220	7,300	105,520	83.540,030	-78.683,550
1058+0,000	10,000	0,000	5,090	0,000	4.856,480	94,800	6,450	101,250	83.641,280	-78.784,800


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Volume de Terraplenagem - Estrada Cabaçu										
Estaca	Semi Distância (m)	Área de Corte (m²)	Área de Aterro (m²)	Volume Corte (m³)	Vol. Acum. Corte (m³)	Aterro				Dif. Vol. Acum. (m³)
						Acabamento (m³)	Corpo (m³)	Total (m³)	Vol. Acum. Aterro (m³)	
1059+0,000	10,000	0,000	5,280	0,000	4.856,480	97,190	6,470	103,660	83.744,940	-78.888,460
1060+0,000	10,000	0,000	6,200	0,000	4.856,480	105,930	8,910	114,840	83.859,780	-79.003,300
1061+0,000	10,000	0,000	6,470	0,000	4.856,480	115,050	11,690	126,740	83.986,520	-79.130,040
1062+0,000	10,000	0,000	6,510	0,000	4.856,480	117,020	12,730	129,750	84.116,270	-79.259,790
1063+0,000	10,000	0,000	6,450	0,000	4.856,480	116,300	13,230	129,530	84.245,800	-79.389,320
1064+0,000	10,000	0,000	6,550	0,000	4.856,480	115,400	14,620	130,020	84.375,820	-79.519,340
1065+0,000	10,000	0,000	5,970	0,000	4.856,480	112,640	12,640	125,280	84.501,100	-79.644,620
1066+0,000	10,000	0,000	4,880	0,000	4.856,480	100,530	8,040	108,570	84.609,670	-79.753,190
1067+0,000	10,000	0,000	4,720	0,000	4.856,480	88,830	7,160	95,990	84.705,660	-79.849,180
1068+0,000	10,000	0,000	4,450	0,000	4.856,480	85,770	5,850	91,620	84.797,280	-79.940,800
1069+0,000	10,000	0,000	3,290	0,000	4.856,480	74,050	3,270	77,320	84.874,600	-80.018,120
1070+0,000	10,000	0,000	2,640	0,000	4.856,480	57,220	2,040	59,260	84.933,860	-80.077,380
1071+0,000	10,000	0,000	2,240	0,000	4.856,480	47,530	1,260	48,790	84.982,650	-80.126,170
1072+0,000	10,000	0,000	2,810	0,000	4.856,480	49,040	1,410	50,450	85.033,100	-80.176,620


	Área Total (m²)	Volume Total (m³)
Aterro	4.401,820	10.004,790
Camada Final	-	75.028,310
Corte	248,830	4.856,480


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CREA: 121248337-7

5.0- TERMO DE ENCERRAMENTO

O presente volume corresponde ao **Volume 3C - Cálculo de Volume e Nota de Serviço de Terraplenagem** referente ao Projeto Executivo de Recuperação de Estrada Vicinal não Pavimentada, Trecho: Entr. BR-364 (Campos de Júlio) – KM 21,44; Extensão de 21,44km, possui 59 (cinquenta e nove) páginas numericamente ordenadas.



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