

NOTAS DE SERVIÇO

-- Pavimento acabado

-- Drenagem

Nota de Serviço Tabela

COR - RM MERCEDES MINATTO ALI - RM MERCEDES MINATTO 0+0.000 155+0.000

Lado Esquerdo									Eixo						Lado Direito								
FINAL DE TALUDE			ACOSTAMENTO			BORDO_PISTA			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO_PISTA			ACOSTAMENTO			FINAL DE TALUDE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-5.251	24.248	-66.67	-4.000	25.082	-8.21	-3.300	25.140	-2.50	0+0.000			25.222	24.871	0.351	3.300	25.140	-2.50	4.000	25.082	-8.21	4.373	24.834	-66.67
-5.344	24.217	-66.67	-4.000	25.113	-8.21	-3.300	25.170	-2.50	1+0.000			25.253	24.552	0.701	3.300	25.170	-2.50	4.000	25.113	-8.21	4.597	24.714	-66.67
-5.605	24.073	-66.67	-4.000	25.143	-8.21	-3.300	25.200	-2.50	2+0.000			25.283	24.563	0.720	3.300	25.200	-2.50	4.000	25.143	-8.21	4.615	24.733	-66.67
-5.735	24.017	-66.67	-4.000	25.173	-8.21	-3.300	25.231	-2.50	3+0.000			25.313	24.624	0.690	3.300	25.231	-2.50	4.000	25.173	-8.21	4.661	24.732	-66.67
-5.711	24.063	-66.67	-4.000	25.203	-8.21	-3.300	25.261	-2.50	4+0.000			25.343	24.602	0.742	3.300	25.261	-2.50	4.000	25.203	-8.21	4.864	24.628	-66.67
-5.794	24.038	-66.67	-4.000	25.234	-8.21	-3.300	25.291	-2.50	5+0.000			25.374	24.569	0.805	3.300	25.318	-1.69	4.000	25.266	-7.41	4.903	24.664	-66.67
-5.903	23.995	-66.67	-4.000	25.264	-8.21	-3.300	25.322	-2.50	6+0.000			25.404	24.599	0.805	3.300	25.453	1.48	4.000	25.423	-4.23	5.035	24.733	-66.67
-5.787	24.077	-66.67	-4.000	25.268	-8.38	-3.300	25.327	-2.67	6+7.093	PC		25.415	24.610	0.805	3.300	25.503	2.67	4.000	25.481	-3.05	5.074	24.765	-66.67
-5.806	24.049	-66.67	-4.000	25.253	-8.87	-3.300	25.315	-3.15	6+10.000			25.419	24.629	0.790	3.300	25.523	3.15	4.000	25.505	-2.56	5.043	24.810	-66.67
-5.633	24.146	-66.67	-4.000	25.234	-9.71	-3.300	25.302	-4.00	7+0.000			25.434	24.669	0.766	3.300	25.566	4.00	4.000	25.554	-1.71	4.949	24.922	-66.67
-5.733	24.091	-66.67	-4.000	25.247	-9.71	-3.300	25.315	-4.00	7+8.119			25.447	24.657	0.790	3.300	25.579	4.00	4.000	25.567	-1.71	5.082	24.845	-66.67
-5.628	24.164	-66.67	-4.000	25.249	-9.71	-3.300	25.317	-4.00	7+10.000			25.449	24.640	0.809	3.300	25.581	4.00	4.000	25.569	-1.71	5.095	24.839	-66.67
-4.498	24.942	-66.67	-4.000	25.274	-9.48	-3.300	25.340	-3.77	8+0.000			25.465	24.656	0.808	3.300	25.589	3.77	4.000	25.575	-1.95	5.010	24.902	-66.67
-4.714	24.841	-66.67	-4.000	25.317	-8.74	-3.300	25.378	-3.03	8+9.145	PT		25.478	24.719	0.759	3.300	25.578	3.03	4.000	25.560	-2.69	4.943	24.931	-66.67
-4.527	25.034	-66.67	-4.000	25.385	-7.45	-3.300	25.437	-1.74	9+0.000		BVC	25.495	24.769	0.726	3.300	25.552	1.74	4.000	25.524	-3.97	4.940	24.898	-66.67
-5.630	24.425	-66.67	-4.000	25.511	-5.06	-3.300	25.547	0.66	10+0.000			25.525	24.821	0.704	3.300	25.503	-0.66	4.000	25.459	-6.37	4.601	25.058	-66.67
-5.991	24.286	-66.67	-4.000	25.614	-2.69	-3.300	25.632	3.03	10+19.894	PC		25.532	24.952	0.580	3.300	25.432	-3.03	4.000	25.371	-8.74	4.782	24.850	-66.67
-6.063	24.239	-66.67	-4.000	25.614	-2.67	-3.300	25.633	3.04	11+0.000			25.532	24.952	0.580	3.300	25.432	-3.04	4.000	25.371	-8.75	4.780	24.851	-66.67
-6.274	24.117	-66.67	-4.000	25.633	-1.90	-3.300	25.647	3.81	11+10.000			25.521	25.028	0.493	3.300	25.395	-3.81	4.000	25.328	-9.53	4.451	25.027	-66.67
-6.320	24.082	-66.67	-4.000	25.629	-1.72	-3.300	25.641	3.99	11+15.951			25.509	25.040	0.469	3.300	25.377	-3.99	4.000	25.310	-9.70	4.402	25.042	-66.67
-6.361	24.041	-66.67	-4.000	25.615	-1.81	-3.300	25.628	3.91	12+0.000			25.499	25.035	0.464	3.300	25.370	-3.91	4.000	25.303	-9.62	4.387	25.045	-66.67
-6.233	24.072	-66.67	-4.000	25.560	-2.39	-3.300	25.577	3.33	12+10.000			25.467	24.943	0.525	3.300	25.358	-3.33	4.000	25.294	-9.04	4.575	24.911	-66.67
-6.234	24.056	-66.67	-4.000	25.546	-2.57	-3.300	25.564	3.15	12+12.008	PT		25.460	24.913	0.546	3.300	25.356	-3.15	4.000	25.294	-8.86	4.616	24.884	-66.67
-6.169	24.032	-66.67	-4.000	25.478	-3.40	-3.300	25.502	2.31	13+0.000			25.426	24.837	0.588	3.300	25.349	-2.31	4.000	25.293	-8.03	4.667	24.848	-66.67
-4.365	25.036	-66.67	-4.000	25.280	-5.51	-3.300	25.318	0.20	14+0.000			25.311	24.561	0.750	3.300	25.305	-0.20	4.000	25.263	-5.92	5.013	24.588	-66.67
-4.354	24.805	-66.67	-4.000	25.041	-7.62	-3.300	25.094	-1.91	15+0.000		BVC	25.157	24.395	0.762	3.300	25.220	1.91	4.000	25.193	-3.81	5.017	24.515	-66.67
-4.097	24.981	100.00	-4.000	24.884	-8.86	-3.300	24.946	-3.15	15+11.855	PC		25.050	24.395	0.655	3.300	25.154	3.15	4.000	25.136	-2.57	4.395	24.873	-66.67
-4.421	24.510	-66.67	-4.000	24.791	-9.46	-3.300	24.857	-3.74	16+0.000			24.981	24.309	0.672	3.300	25.104	3.74	4.000	25.090	-1.97	5.179	24.305	-66.67
-4.386	24.449	-66.67	-4.000	24.706	-9.71	-3.300	24.774	-4.00	16+10.000			24.906	24.081	0.826	3.300	25.038	4.00	4.000	25.026	-1.71	5.142	24.265	-66.67
-4.379	24.434	-66.67	-4.000	24.687	-9.71	-3.300	24.755	-4.00	16+12.960			24.887	24.035	0.852	3.300	25.019	4.00	4.000	25.007	-1.71	5.204	24.204	-66.67
-4.423	24.362	-66.67	-4.000	24.644	-9.71	-3.300	24.712	-4.00	17+0.000			24.844	24.007	0.836	3.300	24.976	4.00	4.000	24.964	-1.72	5.445	24.000	-66.67
-4.472	24.280	-66.67	-4.000	24.594	-9.70	-3.300	24.662	-3.98	17+10.000			24.794	23.946	0.847	3.300	24.925	3.98	4.000	24.913	-1.73	5.700	23.779	-66.67
-4.500	24.244	-66.67	-4.000	24.578	-9.68	-3.300	24.646	-3.97	17+14.065	PT		24.776	23.911	0.865	3.300	24.907	3.97	4.000	24.895	-1.75	5.668	23.783	-66.67
-4.462	24.250	-66.67	-4.000	24.557	-9.66	-3.300	24.625	-3.95	18+0.000			24.755	23.863	0.892	3.300	24.885	3.95	4.000	24.873	-1.77	5.592	23.811	-66.67
-4.268	24.341	-66.67	-4.000	24.520	-9.58	-3.300	24.587	-3.87	19+0.000			24.715	23.868	0.847	3.300	24.842	3.87	4.000	24.829	-1.84	6.359	23.257	-66.67
-4.341	24.292	-66.67	-4.000	24.519	-9.54	-3.300	24.586	-3.83	19+10.377	PC		24.713	23.880	0.832	3.300	24.839	3.83	4.000	24.826	-1.88	5.702	23.691	-66.67
-4.452	24.229	-66.67	-4.000	24.530	-9.52	-3.300	24.597	-3.81	20+0.000			24.722	23.856	0.866	3.300	24.848	3.81	4.000	24.835	-1.91	6.260	23.328	-66.67
-4.492	24.224	-66.67	-4.000	24.552	-9.51	-3.300	24.619	-3.80	20+10.000			24.744	23.906	0.838	3.300	24.870	3.80	4.000	24.856	-1.91	7.077	22.805	-66.67
-4.466	24.247	-66.67	-4.000	24.557	-9.51	-3.300	24.624	-3.80	20+11.686			24.749	23.917	0.832	3.300	24.874	3.80	4.000	24.861	-1.91	7.156	22.757	-66.67
-4.501	24.252	-66.67	-4.000	24.586	-9.51	-3.300	24.653	-3.80	21+0.000		BVC	24.778	23.931	0.847	3.300	24.903	3.80	4.000	24.890	-1.91	6.204	23.421	-66.67
-4.424	24.375	-66.67	-4.000	24.657	-8.74	-3.300	24.718	-3.03	21+10.000			24.818	23.945	0.874	3.300	24.918	3.03	4.000	24.899	-2.69	6.797	23.035	-66.67
-4.465	24.378	-66.67	-4.000	24.688	-8.25	-3.300	24.746	-2.53	21+12.996	PT		24.830	23.953	0.877	3.300	24.913	2.53	4.000	24.891	-3.18	6.894	22.962	-66.67



Autor do projeto:
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Prancha:
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Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
NOTAS DE SERVIÇO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

Nota de Serviço Tabela

COR - RM MERCEDES MINATTO ALI - RM MERCEDES MINATTO 0+0.000 155+0.000

Lado Esquerdo									Eixo						Lado Direito								
FINAL DE TALUDE			ACOSTAMENTO			BORDO_PISTA			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO_PISTA			ACOSTAMENTO			FINAL DE TALUDE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.816	24.169	-66.67	-4.000	24.713	-8.21	-3.300	24.770	-2.50	22+0.000			24.853	24.025	0.828	3.300	24.898	1.38	4.000	24.868	-4.34	5.434	23.912	-66.67
-4.908	24.149	-66.67	-4.000	24.754	-8.21	-3.300	24.811	-2.50	23+0.000			24.894	24.458	0.436	3.300	24.836	-1.75	4.000	24.784	-7.47	4.985	24.127	-66.67
-4.187	24.634	-66.67	-4.000	24.759	-8.21	-3.300	24.816	-2.50	24+0.000			24.899	24.771	0.128	3.300	24.816	-2.50	4.000	24.759	-8.21	4.135	24.669	-66.67
-4.666	24.283	-66.67	-4.000	24.727	-8.21	-3.300	24.784	-2.50	25+0.000			24.867	24.189	0.677	3.300	24.784	-2.50	4.000	24.727	-8.21	4.872	24.146	-66.67
-5.133	23.903	-66.67	-4.000	24.658	-8.21	-3.300	24.716	-2.50	26+0.000		EVC	24.798	23.814	0.984	3.300	24.716	-2.50	4.000	24.658	-8.21	5.178	23.873	-66.67
-4.930	23.939	-66.67	-4.000	24.559	-8.21	-3.300	24.616	-2.50	27+0.000		BVC	24.699	23.806	0.893	3.300	24.616	-2.50	4.000	24.559	-8.21	4.927	23.941	-66.67
-4.855	23.887	-66.67	-4.000	24.457	-8.21	-3.300	24.514	-2.50	28+0.000			24.597	23.689	0.908	3.300	24.514	-2.50	4.000	24.457	-8.21	4.967	23.812	-66.67
-4.928	23.750	-66.67	-4.000	24.369	-8.21	-3.300	24.426	-2.50	29+0.000			24.509	23.527	0.981	3.300	24.426	-2.50	4.000	24.369	-8.21	5.174	23.586	-66.67
-4.739	23.807	-66.67	-4.000	24.299	-8.21	-3.300	24.357	-2.50	30+0.000			24.439	23.475	0.964	3.300	24.357	-2.50	4.000	24.299	-8.21	4.946	23.669	-66.67
-4.694	23.786	-66.67	-4.000	24.248	-8.21	-3.300	24.306	-2.50	31+0.000			24.388	23.585	0.803	3.300	24.306	-2.50	4.000	24.248	-8.21	4.676	23.797	-66.67
-4.563	23.840	-66.67	-4.000	24.216	-8.21	-3.300	24.273	-2.50	32+0.000			24.356	23.598	0.758	3.300	24.273	-2.50	4.000	24.216	-8.21	4.710	23.742	-66.67
-4.680	23.748	-66.67	-4.000	24.201	-8.21	-3.300	24.259	-2.50	33+0.000		EVC	24.341	23.625	0.716	3.300	24.259	-2.50	4.000	24.201	-8.21	4.540	23.841	-66.67
-4.500	23.866	-66.67	-4.000	24.199	-8.21	-3.300	24.257	-2.50	34+0.000			24.339	23.611	0.728	3.300	24.257	-2.50	4.000	24.199	-8.21	4.599	23.799	-66.67
-5.066	23.486	-66.67	-4.000	24.197	-8.21	-3.300	24.254	-2.50	35+0.000			24.337	23.533	0.804	3.300	24.254	-2.50	4.000	24.197	-8.21	5.305	23.327	-66.67
-5.176	23.425	-66.67	-4.000	24.209	-7.87	-3.300	24.264	-2.16	36+0.000			24.335	23.495	0.840	3.300	24.252	-2.50	4.000	24.195	-8.21	5.269	23.349	-66.67
-5.083	23.598	-66.67	-4.000	24.320	-5.04	-3.300	24.355	0.67	37+0.000			24.333	23.506	0.826	3.300	24.257	-2.29	4.000	24.200	-8.21	5.344	23.304	-66.67
-5.105	23.608	-66.67	-4.000	24.344	-4.42	-3.300	24.375	1.30	37+3.960	PC		24.332	23.495	0.837	3.300	24.261	-2.17	4.000	24.203	-8.21	5.340	23.310	-66.67
-5.145	23.609	-66.67	-4.000	24.372	-3.71	-3.300	24.398	2.00	37+10.000		BVC	24.332	23.522	0.809	3.300	24.255	-2.34	4.000	24.197	-8.21	6.028	22.845	-66.67
-4.915	23.779	-66.67	-4.000	24.389	-3.22	-3.300	24.412	2.50	38+0.000			24.329	23.636	0.694	3.300	24.247	-2.50	4.000	24.189	-8.21	4.782	23.668	-66.67
-4.702	23.916	-66.67	-4.000	24.384	-3.21	-3.300	24.407	2.50	38+9.168			24.324	23.771	0.554	3.300	24.242	-2.50	4.000	24.184	-8.21	4.503	23.849	-66.67
-4.662	23.942	-66.67	-4.000	24.383	-3.21	-3.300	24.406	2.50	38+10.000			24.323	23.788	0.536	3.300	24.241	-2.50	4.000	24.183	-8.21	4.488	23.858	-66.67
-4.813	23.832	-66.67	-4.000	24.374	-3.21	-3.300	24.396	2.50	39+0.000			24.314	23.882	0.432	3.300	24.231	-2.50	4.000	24.174	-8.21	4.454	23.871	-66.67
-4.868	23.764	-66.67	-4.000	24.343	-3.65	-3.300	24.369	2.06	39+10.000			24.300	23.769	0.532	3.300	24.232	-2.06	4.000	24.177	-7.87	4.646	23.747	-66.67
-4.924	23.695	-66.67	-4.000	24.312	-4.26	-3.300	24.341	1.45	39+14.377	PT		24.293	23.722	0.572	3.300	24.246	-1.45	4.000	24.193	-7.48	4.668	23.748	-66.67
-4.976	23.621	-66.67	-4.000	24.271	-5.03	-3.300	24.306	0.69	40+0.000			24.284	23.640	0.643	3.300	24.261	-0.69	4.000	24.214	-6.76	4.585	23.823	-66.67
-5.607	23.049	-66.67	-4.000	24.121	-7.68	-3.300	24.174	-1.96	40+19.884	PC		24.239	23.442	0.798	3.300	24.304	1.96	4.000	24.277	-3.84	5.117	23.532	-66.67
-5.602	23.051	-66.67	-4.000	24.120	-7.69	-3.300	24.174	-1.98	41+0.000			24.239	23.440	0.798	3.300	24.304	1.98	4.000	24.277	-3.83	5.114	23.535	-66.67
-5.007	23.392	-66.67	-4.000	24.063	-8.41	-3.300	24.122	-2.69	41+10.000		EVC	24.211	23.319	0.892	3.300	24.300	2.69	4.000	24.279	-3.03	5.233	23.457	-66.67
-4.952	23.394	-66.67	-4.000	24.028	-8.51	-3.300	24.088	-2.80	42+0.000			24.180	23.281	0.900	3.300	24.273	2.80	4.000	24.252	-2.91	5.237	23.428	-66.67
-4.937	23.397	-66.67	-4.000	24.022	-8.51	-3.300	24.081	-2.80	42+2.284			24.174	23.304	0.869	3.300	24.266	2.80	4.000	24.246	-2.91	5.254	23.410	-66.67
-5.047	23.300	-66.67	-4.000	23.998	-8.51	-3.300	24.058	-2.80	42+10.000			24.150	23.378	0.772	3.300	24.242	2.80	4.000	24.222	-2.91	5.157	23.451	-66.67
-4.999	23.308	-66.67	-4.000	23.974	-8.35	-3.300	24.032	-2.64	43+0.000			24.119	23.487	0.633	3.300	24.206	2.64	4.000	24.185	-3.08	5.091	23.457	-66.67
-5.082	23.243	-66.67	-4.000	23.965	-8.21	-3.300	24.023	-2.50	43+4.684	PT		24.105	23.531	0.574	3.300	24.167	1.87	4.000	24.140	-3.85	5.011	23.466	-66.67
-5.083	23.196	-66.67	-4.000	23.918	-8.21	-3.300	23.976	-2.50	44+0.000			24.058	23.518	0.540	3.300	24.037	-0.66	4.000	23.992	-6.37	4.759	23.486	-66.67
-4.988	23.199	-66.67	-4.000	23.857	-8.21	-3.300	23.915	-2.50	45+0.000			23.997	23.462	0.535	3.300	23.915	-2.49	4.000	23.858	-8.21	4.655	23.421	-66.67
-4.425	23.513	-66.67	-4.000	23.796	-8.21	-3.300	23.854	-2.50	46+0.000			23.936	23.258	0.679	3.300	23.854	-2.50	4.000	23.796	-8.21	4.586	23.406	-66.67
-4.667	23.291	-66.67	-4.000	23.735	-8.21	-3.300	23.793	-2.50	47+0.000			23.875	22.911	0.965	3.300	23.798	-2.34	4.000	23.742	-8.05	5.121	22.994	-66.67
-5.060	22.967	-66.67	-4.000	23.674	-8.21	-3.300	23.732	-2.50	48+0.000			23.814	22.774	1.040	3.300	23.821	0.21	4.000	23.783	-5.50	5.435	22.826	-66.67
-5.243	22.794	-66.67	-4.000	23.622	-8.38	-3.300	23.681	-2.67	48+14.729	PC		23.769	22.731	1.038	3.300	23.857	2.67	4.000	23.836	-3.05	5.679	22.717	-66.67
-5.107	22.833	-66.67	-4.000	23.571	-9.26	-3.300	23.636	-3.55	49+0.000			23.753	22.729	1.024	3.300	23.870	3.55	4.000	23.855	-2.17	5.780	22.668	-66.67
-5.465	22.546	-66.67	-4.000	23.523	-9.71	-3.300	23.591	-4.00	49+10.000			23.723	22.612	1.110	3.300	23.855	4.00	4.000	23.843	-1.71	5.929	22.557	-66.67
-5.632	22.407	-66.67	-4.000	23.495	-9.71	-3.300	23.563	-4.00	49+18.977			23.695	22.499	1.197	3.300	23.827	4.00	4.000	23.815	-1.71	5.872	22.567	-66.67



Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
2 / 7

Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
NOTAS DE SERVIÇO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

Nota de Serviço Tabela

COR - RM MERCEDES MINATTO ALI - RM MERCEDES MINATTO 0+0.000 155+0.000

Lado Esquerdo									Eixo						Lado Direito								
FINAL DE TALUDE			ACOSTAMENTO			BORDO_PISTA			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO_PISTA			ACOSTAMENTO			FINAL DE TALUDE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-5.639	22.399	-66.67	-4.000	23.492	-9.71	-3.300	23.560	-4.00	50+0.000			23.692	22.500	1.192	3.300	23.824	4.00	4.000	23.812	-1.71	5.841	22.585	-66.67
-5.699	22.329	-66.67	-4.000	23.461	-9.71	-3.300	23.529	-4.00	50+10.000			23.661	22.525	1.136	3.300	23.793	4.00	4.000	23.781	-1.71	5.448	22.816	-66.67
-5.679	22.344	-66.67	-4.000	23.463	-8.92	-3.300	23.525	-3.20	51+0.000			23.631	22.574	1.057	3.300	23.737	3.20	4.000	23.719	-2.51	4.865	23.143	-66.67
-5.740	22.315	-66.67	-4.000	23.474	-8.38	-3.300	23.533	-2.67	51+3.225	PT		23.621	22.573	1.048	3.300	23.709	2.67	4.000	23.688	-3.05	5.096	22.957	-66.67
-5.890	22.170	-66.67	-4.000	23.430	-8.21	-3.300	23.487	-2.50	52+0.000			23.570	22.544	1.026	3.300	23.566	-0.13	4.000	23.525	-5.84	5.128	22.773	-66.67
-5.684	22.246	-66.67	-4.000	23.369	-8.21	-3.300	23.426	-2.50	53+0.000			23.509	22.588	0.921	3.300	23.429	-2.43	4.000	23.372	-8.14	4.951	22.738	-66.67
-5.828	22.089	-66.67	-4.000	23.308	-8.21	-3.300	23.365	-2.50	54+0.000			23.448	22.642	0.806	3.300	23.365	-2.50	4.000	23.308	-8.21	4.938	22.682	-66.67
-5.753	22.078	-66.67	-4.000	23.247	-8.21	-3.300	23.304	-2.50	55+0.000			23.387	22.503	0.884	3.300	23.311	-2.29	4.000	23.255	-8.00	4.931	22.635	-66.67
-5.654	22.083	-66.67	-4.000	23.186	-8.21	-3.300	23.243	-2.50	56+0.000			23.326	22.373	0.953	3.300	23.337	0.35	4.000	23.300	-5.36	5.215	22.490	-66.67
-6.145	21.707	-66.67	-4.000	23.137	-8.38	-3.300	23.195	-2.67	56+13.878	PC		23.283	22.223	1.060	3.300	23.371	2.67	4.000	23.350	-3.05	5.228	22.531	-66.67
-5.428	22.125	-66.67	-4.000	23.077	-9.40	-3.300	23.143	-3.69	57+0.000			23.265	22.170	1.095	3.300	23.386	3.69	4.000	23.372	-2.03	5.293	22.510	-66.67
-5.502	22.032	-66.67	-4.000	23.034	-9.71	-3.300	23.102	-4.00	57+10.000			23.234	22.134	1.100	3.300	23.366	4.00	4.000	23.354	-1.71	5.405	22.417	-66.67
-5.414	22.065	-66.67	-4.000	23.008	-9.71	-3.300	23.076	-4.00	57+18.575			23.208	22.145	1.062	3.300	23.340	4.00	4.000	23.328	-1.71	5.360	22.421	-66.67
-5.532	21.982	-66.67	-4.000	23.003	-9.71	-3.300	23.071	-4.00	58+0.000			23.203	22.148	1.056	3.300	23.335	4.00	4.000	23.323	-1.71	5.380	22.404	-66.67
-5.242	22.145	-66.67	-4.000	22.973	-9.71	-3.300	23.041	-4.00	58+10.000			23.173	22.169	1.004	3.300	23.305	4.00	4.000	23.293	-1.71	5.328	22.407	-66.67
-5.408	22.036	-66.67	-4.000	22.974	-8.93	-3.300	23.036	-3.21	59+0.000			23.142	22.194	0.948	3.300	23.248	3.21	4.000	23.231	-2.50	5.319	22.352	-66.67
-5.377	22.068	-66.67	-4.000	22.986	-8.38	-3.300	23.044	-2.67	59+3.273	PT		23.132	22.196	0.937	3.300	23.220	2.67	4.000	23.199	-3.05	5.261	22.358	-66.67
-5.313	22.066	-66.67	-4.000	22.941	-8.21	-3.300	22.999	-2.50	60+0.000			23.081	22.126	0.955	3.300	23.077	-0.12	4.000	23.037	-5.84	5.129	22.284	-66.67
-5.225	22.063	-66.67	-4.000	22.880	-8.21	-3.300	22.938	-2.50	61+0.000			23.020	22.207	0.813	3.300	22.940	-2.42	4.000	22.883	-8.14	4.934	22.261	-66.67
-5.552	21.785	-66.67	-4.000	22.819	-8.21	-3.300	22.877	-2.50	62+0.000			22.959	21.809	1.151	3.300	22.877	-2.50	4.000	22.819	-8.21	5.972	21.505	-66.67
-5.439	21.799	-66.67	-4.000	22.758	-8.21	-3.300	22.816	-2.50	63+0.000			22.898	21.767	1.131	3.300	22.837	-1.87	4.000	22.784	-7.58	5.972	21.469	-66.67
-5.448	21.732	-66.67	-4.000	22.697	-8.21	-3.300	22.755	-2.50	64+0.000			22.837	21.728	1.109	3.300	22.877	1.22	4.000	22.846	-4.49	5.759	21.673	-66.67
-5.472	21.682	-66.67	-4.000	22.664	-8.38	-3.300	22.723	-2.67	64+8.660	PC		22.811	21.674	1.136	3.300	22.899	2.67	4.000	22.877	-3.05	5.928	21.592	-66.67
-5.391	21.724	-66.67	-4.000	22.651	-8.60	-3.300	22.711	-2.89	64+10.000			22.807	21.670	1.137	3.300	22.902	2.89	4.000	22.882	-2.82	5.862	21.641	-66.67
-5.316	21.698	-66.67	-4.000	22.576	-9.71	-3.300	22.644	-4.00	65+0.000			22.776	21.595	1.181	3.300	22.908	4.00	4.000	22.896	-1.71	6.197	21.431	-66.67
-5.068	21.833	-66.67	-4.000	22.546	-9.71	-3.300	22.614	-4.00	65+10.000			22.746	21.542	1.203	3.300	22.878	4.00	4.000	22.866	-1.71	5.885	21.609	-66.67
-5.037	21.835	-66.67	-4.000	22.527	-9.71	-3.300	22.595	-4.00	65+16.145			22.727	21.523	1.204	3.300	22.859	4.00	4.000	22.847	-1.71	5.724	21.697	-66.67
-5.012	21.841	-66.67	-4.000	22.515	-9.71	-3.300	22.583	-4.00	66+0.000			22.715	21.513	1.202	3.300	22.847	4.00	4.000	22.835	-1.71	5.749	21.669	-66.67
-4.896	21.891	-66.67	-4.000	22.488	-9.62	-3.300	22.556	-3.91	66+10.000			22.684	21.497	1.188	3.300	22.813	3.91	4.000	22.801	-1.81	5.831	21.580	-66.67
-5.362	21.586	-66.67	-4.000	22.494	-8.70	-3.300	22.555	-2.99	67+0.000			22.654	21.506	1.148	3.300	22.752	2.99	4.000	22.733	-2.73	5.817	21.522	-66.67
-5.338	21.614	-66.67	-4.000	22.506	-8.13	-3.300	22.563	-2.41	67+3.630	PT		22.643	21.489	1.154	3.300	22.722	2.41	4.000	22.699	-3.30	5.664	21.590	-66.67
-5.390	21.657	-66.67	-4.000	22.584	-4.93	-3.300	22.619	0.78	68+0.000			22.593	21.493	1.100	3.300	22.567	-0.78	4.000	22.522	-6.49	5.322	21.641	-66.67
-6.629	20.871	-66.67	-4.000	22.624	-3.30	-3.300	22.647	2.41	68+8.415	PC		22.567	21.581	0.986	3.300	22.488	-2.41	4.000	22.431	-8.13	5.847	21.199	-66.67
-5.435	21.673	-66.67	-4.000	22.629	-3.04	-3.300	22.651	2.68	68+10.000			22.562	21.592	0.970	3.300	22.474	-2.68	4.000	22.415	-8.39	6.015	21.072	-66.67
-4.880	22.057	-66.67	-4.000	22.644	-1.92	-3.300	22.657	3.80	69+0.000			22.532	21.586	0.946	3.300	22.406	-3.80	4.000	22.340	-9.51	5.016	21.663	-66.67
-6.837	20.730	-66.67	-4.000	22.621	-1.71	-3.300	22.633	4.00	69+10.000			22.501	21.593	0.908	3.300	22.369	-4.00	4.000	22.301	-9.71	5.108	21.563	-66.67
-6.856	20.703	-66.67	-4.000	22.607	-1.71	-3.300	22.619	4.00	69+14.516			22.487	21.615	0.872	3.300	22.355	-4.00	4.000	22.287	-9.71	5.023	21.606	-66.67
-6.905	20.654	-66.67	-4.000	22.591	-1.71	-3.300	22.603	4.00	70+0.000			22.471	21.620	0.851	3.300	22.339	-4.00	4.000	22.271	-9.71	4.862	21.696	-66.67
-6.865	20.650	-66.67	-4.000	22.560	-1.71	-3.300	22.572	4.00	70+10.000			22.440	21.749	0.691	3.300	22.308	-4.00	4.000	22.240	-9.71	4.550	21.874	-66.67
-4.893	21.885	-66.67	-4.000	22.480	-2.94	-3.300	22.501	2.77	71+0.000			22.410	21.760	0.650	3.300	22.318	-2.77	4.000	22.259	-8.48	4.504	21.923	-66.67
-4.858	21.902	-66.67	-4.000	22.474	-3.05	-3.300	22.496	2.67	71+0.617	PT		22.408	21.753	0.655	3.300	22.320	-2.67	4.000	22.261	-8.38	4.504	21.925	-66.67
-4.799	21.754	-66.67	-4.000	22.286	-6.28	-3.300	22.330	-0.56	72+0.000			22.349	21.767	0.581	3.300	22.266	-2.50	4.000	22.209	-8.21	4.484	21.886	-66.67



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Conteúdo
NOTAS DE SERVIÇO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

Nota de Serviço Tabela

COR - RM MERCEDES MINATTO ALI - RM MERCEDES MINATTO 0+0.000 155+0.000

Lado Esquerdo									Eixo						Lado Direito								
FINAL DE TALUDE			ACOSTAMENTO			BORDO_PISTA			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO_PISTA			ACOSTAMENTO			FINAL DE TALUDE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-6.250	20.648	-66.67	-4.000	22.148	-8.20	-3.300	22.205	-2.49	73+0.000			22.288	21.553	0.735	3.300	22.205	-2.50	4.000	22.148	-8.21	4.628	21.729	-66.67
-6.039	20.769	-66.67	-4.000	22.128	-7.17	-3.300	22.178	-1.46	74+0.000			22.226	21.434	0.793	3.300	22.144	-2.50	4.000	22.086	-8.21	4.840	21.527	-66.67
-6.432	20.576	-66.67	-4.000	22.197	-3.91	-3.300	22.225	1.80	75+0.000			22.165	21.439	0.727	3.300	22.083	-2.50	4.000	22.025	-8.21	4.623	21.610	-66.67
-6.390	20.623	-66.67	-4.000	22.216	-3.05	-3.300	22.238	2.67	75+5.190	PC		22.150	21.392	0.758	3.300	22.062	-2.67	4.000	22.003	-8.38	4.615	21.593	-66.67
-5.114	21.491	-66.67	-4.000	22.234	-2.25	-3.300	22.249	3.47	75+10.000			22.135	21.361	0.774	3.300	22.020	-3.47	4.000	21.956	-9.18	4.639	21.530	-66.67
-5.705	21.088	-66.67	-4.000	22.224	-1.71	-3.300	22.236	4.00	76+0.000			22.104	21.290	0.815	3.300	21.972	-4.00	4.000	21.904	-9.71	4.714	21.428	-66.67
-6.257	20.702	-66.67	-4.000	22.206	-1.71	-3.300	22.218	4.00	76+5.870			22.086	21.246	0.841	3.300	21.954	-4.00	4.000	21.886	-9.71	4.688	21.427	-66.67
-6.359	20.621	-66.67	-4.000	22.194	-1.72	-3.300	22.206	3.99	76+10.000			22.074	21.211	0.862	3.300	21.942	-3.99	4.000	21.874	-9.71	4.731	21.387	-66.67
-6.376	20.564	-66.67	-4.000	22.148	-2.09	-3.300	22.163	3.63	77+0.000			22.043	21.133	0.910	3.300	21.924	-3.63	4.000	21.858	-9.34	4.722	21.377	-66.67
-6.181	20.652	-66.67	-4.000	22.106	-2.63	-3.300	22.125	3.08	77+6.550	PT		22.023	21.044	0.980	3.300	21.922	-3.08	4.000	21.860	-8.79	4.713	21.385	-66.67
-5.685	20.881	-66.67	-4.000	22.005	-4.15	-3.300	22.034	1.56	78+0.000			21.982	20.905	1.078	3.300	21.931	-1.56	4.000	21.880	-7.28	4.685	21.423	-66.67
-5.605	20.783	-66.67	-4.000	21.853	-6.43	-3.300	21.898	-0.71	79+0.000			21.921	20.836	1.085	3.300	21.945	0.71	4.000	21.910	-5.00	5.204	21.107	-66.67
-5.136	20.944	-66.67	-4.000	21.701	-8.70	-3.300	21.762	-2.98	80+0.000			21.860	20.820	1.040	3.300	21.958	2.98	4.000	21.939	-2.73	5.432	20.985	-66.67
-5.117	20.949	-66.67	-4.000	21.694	-8.79	-3.300	21.756	-3.08	80+0.940	PC		21.857	20.817	1.041	3.300	21.959	3.08	4.000	21.940	-2.63	5.448	20.975	-66.67
-5.001	20.971	-66.67	-4.000	21.639	-9.49	-3.300	21.705	-3.77	80+10.000			21.830	20.910	0.919	3.300	21.954	3.77	4.000	21.940	-1.94	5.258	21.102	-66.67
-4.959	20.960	-66.67	-4.000	21.599	-9.71	-3.300	21.667	-4.00	81+0.000			21.799	21.005	0.794	3.300	21.931	4.00	4.000	21.919	-1.71	5.203	21.117	-66.67
-4.993	20.929	-66.67	-4.000	21.591	-9.71	-3.300	21.659	-4.00	81+2.507			21.791	21.012	0.780	3.300	21.923	4.00	4.000	21.911	-1.71	5.212	21.103	-66.67
-4.946	20.938	-66.67	-4.000	21.568	-9.71	-3.300	21.636	-4.00	81+10.000			21.768	20.992	0.776	3.300	21.900	4.00	4.000	21.888	-1.71	5.210	21.082	-66.67
-5.294	20.675	-66.67	-4.000	21.538	-9.71	-3.300	21.606	-4.00	82+0.000			21.738	20.885	0.853	3.300	21.870	4.00	4.000	21.858	-1.71	5.283	21.003	-66.67
-5.729	20.373	-66.67	-4.000	21.526	-9.71	-3.300	21.594	-4.00	82+4.074	PT		21.726	20.873	0.853	3.300	21.858	4.00	4.000	21.846	-1.71	5.361	20.938	-66.67
-4.438	21.185	-66.67	-4.000	21.477	-9.71	-3.300	21.545	-4.00	83+0.000			21.677	21.062	0.615	3.300	21.809	4.00	4.000	21.797	-1.71	5.473	20.815	-66.67
-5.374	20.500	-66.67	-4.000	21.416	-9.71	-3.300	21.484	-4.00	84+0.000			21.616	20.916	0.700	3.300	21.748	4.00	4.000	21.736	-1.71	5.374	20.820	-66.67
-5.278	20.523	-66.67	-4.000	21.375	-9.71	-3.300	21.443	-4.00	84+13.433	PC		21.575	20.769	0.806	3.300	21.707	4.00	4.000	21.695	-1.71	5.250	20.862	-66.67
-5.386	20.431	-66.67	-4.000	21.355	-9.71	-3.300	21.423	-4.00	85+0.000			21.555	20.752	0.802	3.300	21.687	4.00	4.000	21.675	-1.71	5.099	20.942	-66.67
-4.719	20.845	-66.67	-4.000	21.324	-9.71	-3.300	21.392	-4.00	85+10.000			21.524	20.655	0.869	3.300	21.656	4.00	4.000	21.644	-1.71	5.257	20.806	-66.67
-5.434	20.346	-66.67	-4.000	21.302	-9.71	-3.300	21.370	-4.00	85+17.358			21.502	20.499	1.003	3.300	21.634	4.00	4.000	21.622	-1.71	5.044	20.926	-66.67
-5.404	20.358	-66.67	-4.000	21.294	-9.71	-3.300	21.362	-4.00	86+0.000			21.494	20.451	1.043	3.300	21.626	4.00	4.000	21.614	-1.71	4.969	20.968	-66.67
-4.890	20.670	-66.67	-4.000	21.263	-9.71	-3.300	21.331	-4.00	86+10.000			21.463	20.342	1.121	3.300	21.595	4.00	4.000	21.583	-1.71	5.207	20.778	-66.67
-5.036	20.587	-66.67	-4.000	21.277	-8.60	-3.300	21.338	-2.88	87+0.000			21.433	20.282	1.150	3.300	21.528	2.88	4.000	21.508	-2.83	5.397	20.577	-66.67
-5.051	20.581	-66.67	-4.000	21.282	-8.38	-3.300	21.341	-2.67	87+1.284	PT		21.429	20.289	1.140	3.300	21.517	2.67	4.000	21.495	-3.05	5.422	20.548	-66.67
-5.116	20.487	-66.67	-4.000	21.232	-8.21	-3.300	21.289	-2.50	88+0.000			21.372	20.397	0.974	3.300	21.357	-0.45	4.000	21.313	-6.17	5.114	20.571	-66.67
-4.978	20.518	-66.67	-4.000	21.171	-8.21	-3.300	21.228	-2.50	89+0.000			21.311	20.360	0.951	3.300	21.229	-2.48	4.000	21.171	-8.19	4.977	20.520	-66.67
-4.964	20.467	-66.67	-4.000	21.109	-8.21	-3.300	21.167	-2.50	90+0.000			21.249	20.368	0.882	3.300	21.167	-2.50	4.000	21.109	-8.21	4.925	20.493	-66.67
-4.694	20.586	-66.67	-4.000	21.048	-8.21	-3.300	21.106	-2.50	91+0.000			21.188	20.348	0.841	3.300	21.106	-2.50	4.000	21.048	-8.21	4.830	20.495	-66.67
-4.541	20.626	-66.67	-4.000	20.987	-8.21	-3.300	21.045	-2.50	92+0.000			21.127	20.481	0.646	3.300	21.045	-2.50	4.000	20.987	-8.21	4.650	20.554	-66.67
-4.904	20.324	-66.67	-4.000	20.926	-8.21	-3.300	20.984	-2.50	93+0.000			21.066	20.214	0.853	3.300	20.984	-2.50	4.000	20.926	-8.21	4.858	20.354	-66.67
-4.874	20.283	-66.67	-4.000	20.865	-8.21	-3.300	20.923	-2.50	94+0.000			21.005	20.081	0.924	3.300	20.923	-2.50	4.000	20.865	-8.21	4.366	20.621	-66.67
-4.753	20.302	-66.67	-4.000	20.804	-8.21	-3.300	20.862	-2.50	95+0.000			20.944	20.030	0.914	3.300	20.862	-2.50	4.000	20.804	-8.21	4.807	20.266	-66.67
-4.737	20.251	-66.67	-4.000	20.743	-8.21	-3.300	20.801	-2.50	96+0.000			20.883	20.018	0.865	3.300	20.801	-2.50	4.000	20.743	-8.21	5.028	20.057	-66.67
-5.112	19.941	-66.67	-4.000	20.682	-8.21	-3.300	20.740	-2.50	97+0.000			20.822	19.911	0.911	3.300	20.740	-2.50	4.000	20.682	-8.21	4.259	20.941	100.00
-4.932	20.000	-66.67	-4.000	20.621	-8.21	-3.300	20.678	-2.50	98+0.000			20.761	19.965	0.796	3.300	20.678	-2.50	4.000	20.621	-8.21	4.647	20.189	-66.67
-4.874	19.988	-66.67	-4.000	20.570	-7.95	-3.300	20.626	-2.24	99+0.000			20.700	19.965	0.735	3.300	20.617	-2.50	4.000	20.560	-8.21	5.028	19.875	-66.67



Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
4 / 7

Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
NOTAS DE SERVIÇO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

Nota de Serviço Tabela

COR - RM MERCEDES MINATTO ALI - RM MERCEDES MINATTO 0+0.000 155+0.000

Lado Esquerdo									Eixo						Lado Direito								
FINAL DE TALUDE			ACOSTAMENTO			BORDO_PISTA			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO_PISTA			ACOSTAMENTO			FINAL DE TALUDE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.667	20.174	-66.67	-4.000	20.618	-5.23	-3.300	20.655	0.49	100+0.000			20.639	19.975	0.664	3.300	20.556	-2.50	4.000	20.499	-8.21	4.508	20.160	-66.67
-4.536	20.308	-66.67	-4.000	20.666	-3.05	-3.300	20.687	2.67	100+13.066	PC		20.599	19.964	0.635	3.300	20.511	-2.67	4.000	20.452	-8.38	4.810	19.912	-66.67
-4.672	20.243	-66.67	-4.000	20.691	-1.89	-3.300	20.704	3.82	101+0.000			20.578	20.004	0.574	3.300	20.452	-3.82	4.000	20.385	-9.54	4.787	19.860	-66.67
-5.029	19.981	-66.67	-4.000	20.667	-1.71	-3.300	20.679	4.00	101+10.000			20.547	19.872	0.675	3.300	20.415	-4.00	4.000	20.347	-9.71	4.829	19.794	-66.67
-5.105	19.900	-66.67	-4.000	20.637	-1.71	-3.300	20.649	4.00	102+0.000			20.517	19.863	0.654	3.300	20.385	-4.00	4.000	20.317	-9.71	4.782	19.795	-66.67
-5.322	19.747	-66.67	-4.000	20.628	-1.71	-3.300	20.640	4.00	102+2.718			20.508	19.885	0.624	3.300	20.376	-4.00	4.000	20.308	-9.71	4.722	19.827	-66.67
-4.538	20.247	-66.67	-4.000	20.606	-1.71	-3.300	20.618	4.00	102+10.000			20.486	19.810	0.677	3.300	20.354	-4.00	4.000	20.286	-9.71	4.576	19.902	-66.67
-4.357	20.337	-66.67	-4.000	20.576	-1.71	-3.300	20.588	4.00	103+0.000			20.456	19.764	0.691	3.300	20.324	-4.00	4.000	20.256	-9.71	4.669	19.810	-66.67
-4.294	20.312	-66.67	-4.000	20.508	-2.65	-3.300	20.526	3.06	103+10.000			20.425	19.742	0.683	3.300	20.324	-3.06	4.000	20.263	-8.78	4.891	19.669	-66.67
-4.361	20.244	-66.67	-4.000	20.485	-3.05	-3.300	20.506	2.67	103+12.369	PT		20.418	19.732	0.686	3.300	20.330	-2.67	4.000	20.271	-8.38	4.882	19.683	-66.67
-4.288	20.218	-66.67	-4.000	20.410	-4.32	-3.300	20.441	1.40	104+0.000			20.395	19.711	0.684	3.300	20.312	-2.50	4.000	20.255	-8.21	4.829	19.702	-66.67
-4.229	20.071	-66.67	-4.000	20.223	-7.47	-3.300	20.276	-1.76	105+0.000			20.334	19.674	0.659	3.300	20.251	-2.50	4.000	20.194	-8.21	5.049	19.494	-66.67
-4.052	20.098	-66.67	-4.000	20.132	-8.21	-3.300	20.190	-2.50	106+0.000			20.272	19.646	0.627	3.300	20.190	-2.50	4.000	20.132	-8.21	4.774	19.617	-66.67
-4.750	19.571	-66.67	-4.000	20.071	-8.21	-3.300	20.129	-2.50	107+0.000			20.211	19.604	0.607	3.300	20.129	-2.50	4.000	20.071	-8.21	4.628	19.653	-66.67
-4.301	19.810	-66.67	-4.000	20.010	-8.21	-3.300	20.068	-2.50	108+0.000			20.150	19.472	0.678	3.300	20.068	-2.50	4.000	20.010	-8.21	4.435	19.720	-66.67
-4.327	19.731	-66.67	-4.000	19.949	-8.21	-3.300	20.007	-2.50	109+0.000			20.089	19.282	0.807	3.300	20.007	-2.50	4.000	19.949	-8.21	4.696	19.485	-66.67
-4.713	19.413	-66.67	-4.000	19.888	-8.21	-3.300	19.946	-2.50	110+0.000			20.028	19.161	0.867	3.300	19.946	-2.50	4.000	19.888	-8.21	4.787	19.363	-66.67
-5.696	18.698	-66.67	-4.000	19.829	-8.17	-3.300	19.886	-2.46	111+0.000			19.967	19.105	0.862	3.300	19.885	-2.50	4.000	19.827	-8.21	4.996	19.163	-66.67
-5.089	19.128	-66.67	-4.000	19.854	-6.00	-3.300	19.897	-0.29	112+0.000			19.906	19.001	0.905	3.300	19.824	-2.50	4.000	19.766	-8.21	4.737	19.275	-66.67
-5.074	19.202	-66.67	-4.000	19.919	-3.05	-3.300	19.940	2.67	112+17.740	PC		19.852	18.953	0.899	3.300	19.764	-2.67	4.000	19.705	-8.38	4.883	19.117	-66.67
-5.140	19.167	-66.67	-4.000	19.927	-2.67	-3.300	19.945	3.04	113+0.000			19.845	18.953	0.892	3.300	19.745	-3.04	4.000	19.683	-8.76	4.899	19.084	-66.67
-5.333	19.046	-66.67	-4.000	19.934	-1.71	-3.300	19.946	4.00	113+10.000			19.814	18.936	0.879	3.300	19.682	-4.00	4.000	19.614	-9.71	4.901	19.014	-66.67
-5.811	18.697	-66.67	-4.000	19.904	-1.71	-3.300	19.916	4.00	114+0.000			19.784	18.921	0.863	3.300	19.652	-4.00	4.000	19.584	-9.71	4.833	19.029	-66.67
-5.573	18.845	-66.67	-4.000	19.893	-1.71	-3.300	19.905	4.00	114+3.553			19.773	18.910	0.863	3.300	19.641	-4.00	4.000	19.573	-9.71	4.850	19.006	-66.67
-5.349	18.974	-66.67	-4.000	19.873	-1.71	-3.300	19.885	4.00	114+10.000		BVC	19.753	18.903	0.850	3.300	19.621	-4.00	4.000	19.553	-9.71	4.736	19.063	-66.67
-5.151	19.077	-66.67	-4.000	19.844	-1.71	-3.300	19.856	4.00	115+0.000			19.724	18.870	0.854	3.300	19.592	-4.00	4.000	19.524	-9.71	4.804	18.988	-66.67
-4.948	19.133	-66.67	-4.000	19.765	-3.05	-3.300	19.786	2.67	115+9.365	PT		19.698	18.832	0.866	3.300	19.610	-2.67	4.000	19.551	-8.38	5.146	18.788	-66.67
-4.851	19.100	-66.67	-4.000	19.667	-4.82	-3.300	19.701	0.89	116+0.000			19.672	18.785	0.886	3.300	19.589	-2.50	4.000	19.532	-8.21	5.190	18.738	-66.67
-4.583	19.118	-66.67	-4.000	19.507	-7.77	-3.300	19.561	-2.05	117+0.000			19.629	18.756	0.873	3.300	19.547	-2.50	4.000	19.489	-8.21	5.090	18.763	-66.67
-4.564	19.080	-66.67	-4.000	19.456	-8.21	-3.300	19.514	-2.50	118+0.000			19.596	18.752	0.844	3.300	19.514	-2.50	4.000	19.456	-8.21	5.158	18.685	-66.67
-4.532	19.079	-66.67	-4.000	19.433	-8.21	-3.300	19.491	-2.50	119+0.000			19.573	18.708	0.865	3.300	19.491	-2.50	4.000	19.433	-8.21	4.873	18.851	-66.67
-4.643	18.991	-66.67	-4.000	19.420	-8.21	-3.300	19.477	-2.50	120+0.000			19.560	18.733	0.827	3.300	19.477	-2.50	4.000	19.420	-8.21	4.947	18.788	-66.67
-4.579	19.030	-66.67	-4.000	19.416	-8.21	-3.300	19.474	-2.50	121+0.000		EVC	19.556	18.728	0.828	3.300	19.474	-2.50	4.000	19.416	-8.21	5.055	18.713	-66.67
-4.631	18.998	-66.67	-4.000	19.419	-8.21	-3.300	19.477	-2.50	122+0.000			19.559	18.775	0.784	3.300	19.530	-0.88	4.000	19.484	-6.60	5.563	18.442	-66.67
-4.870	18.842	-66.67	-4.000	19.422	-8.21	-3.300	19.479	-2.50	122+18.535	PC		19.562	18.613	0.949	3.300	19.637	2.27	4.000	19.613	-3.45	5.851	18.379	-66.67
-4.941	18.794	-66.67	-4.000	19.422	-8.23	-3.300	19.479	-2.52	123+0.000			19.562	18.604	0.958	3.300	19.645	2.52	4.000	19.623	-3.20	5.784	18.433	-66.67
-4.975	18.738	-66.67	-4.000	19.388	-9.11	-3.300	19.452	-3.40	123+10.000			19.564	18.564	1.000	3.300	19.676	3.40	4.000	19.660	-2.31	5.774	18.477	-66.67
-5.052	18.688	-66.67	-4.000	19.389	-9.11	-3.300	19.453	-3.40	124+0.000			19.565	18.527	1.038	3.300	19.678	3.40	4.000	19.661	-2.31	5.733	18.506	-66.67
-5.169	18.612	-66.67	-4.000	19.391	-9.11	-3.300	19.455	-3.40	124+10.000			19.567	18.495	1.072	3.300	19.679	3.40	4.000	19.663	-2.31	5.583	18.607	-66.67
-5.355	18.489	-66.67	-4.000	19.393	-9.11	-3.300	19.456	-3.40	125+0.000			19.569	18.420	1.148	3.300	19.681	3.40	4.000	19.665	-2.31	5.570	18.618	-66.67
-5.216	18.583	-66.67	-4.000	19.393	-9.11	-3.300	19.457	-3.40	125+3.011			19.569	18.408	1.161	3.300	19.681	3.40	4.000	19.665	-2.31	5.575	18.615	-66.67
-5.372	18.480	-66.67	-4.000	19.394	-9.11	-3.300	19.458	-3.40	125+10.000			19.570	18.407	1.163	3.300	19.682	3.40	4.000	19.666	-2.31	5.680	18.546	-66.67



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Nota de Serviço Tabela

COR - RM MERCEDES MINATTO ALI - RM MERCEDES MINATTO 0+0.000 155+0.000

Lado Esquerdo									Eixo						Lado Direito								
FINAL DE TALUDE			ACOSTAMENTO			BORDO_PISTA			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO_PISTA			ACOSTAMENTO			FINAL DE TALUDE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-5.429	18.443	-66.67	-4.000	19.396	-9.11	-3.300	19.460	-3.40	126+0.000			19.572	18.461	1.111	3.300	19.684	3.40	4.000	19.668	-2.31	5.700	18.535	-66.67
-5.316	18.520	-66.67	-4.000	19.397	-9.11	-3.300	19.461	-3.40	126+10.000			19.573	18.568	1.006	3.300	19.686	3.40	4.000	19.669	-2.31	5.929	18.383	-66.67
-4.879	18.814	-66.67	-4.000	19.400	-9.08	-3.300	19.464	-3.37	127+0.000			19.575	18.607	0.968	3.300	19.686	3.37	4.000	19.670	-2.34	6.057	18.298	-66.67
-4.734	18.915	-66.67	-4.000	19.404	-9.01	-3.300	19.467	-3.30	127+7.487	PT		19.576	18.656	0.920	3.300	19.685	3.30	4.000	19.668	-2.42	5.847	18.437	-66.67
-4.917	18.802	-66.67	-4.000	19.413	-8.84	-3.300	19.475	-3.12	128+0.000			19.578	18.842	0.736	3.300	19.681	3.12	4.000	19.663	-2.59	6.070	18.283	-66.67
-4.981	18.774	-66.67	-4.000	19.428	-8.54	-3.300	19.488	-2.83	129+0.000			19.581	19.190	0.391	3.300	19.675	2.83	4.000	19.655	-2.88	6.468	18.009	-66.67
-4.915	18.826	-66.67	-4.000	19.436	-8.40	-3.300	19.494	-2.69	129+10.441	PC		19.583	19.145	0.438	3.300	19.672	2.69	4.000	19.650	-3.03	4.887	19.059	-66.67
-5.006	18.770	-66.67	-4.000	19.440	-8.33	-3.300	19.498	-2.61	130+0.000			19.584	19.094	0.490	3.300	19.671	2.61	4.000	19.649	-3.10	4.853	19.080	-66.67
-4.507	19.104	-66.67	-4.000	19.442	-8.31	-3.300	19.500	-2.60	130+10.000			19.586	19.075	0.511	3.300	19.672	2.60	4.000	19.650	-3.11	4.644	19.221	-66.67
-6.046	18.079	-66.67	-4.000	19.444	-8.31	-3.300	19.502	-2.60	130+19.742			19.588	18.971	0.617	3.300	19.673	2.60	4.000	19.652	-3.11	5.790	18.458	-66.67
-6.230	17.957	-66.67	-4.000	19.444	-8.31	-3.300	19.502	-2.60	131+0.000			19.588	18.966	0.622	3.300	19.673	2.60	4.000	19.652	-3.11	5.610	18.578	-66.67
-5.113	18.703	-66.67	-4.000	19.445	-8.31	-3.300	19.503	-2.60	131+10.000			19.589	18.847	0.742	3.300	19.675	2.60	4.000	19.653	-3.11	4.808	19.114	-66.67
-5.158	18.681	-66.67	-4.000	19.453	-8.16	-3.300	19.510	-2.44	132+0.000			19.591	18.807	0.784	3.300	19.671	2.44	4.000	19.649	-3.27	4.857	19.078	-66.67
-5.010	18.812	-66.67	-4.000	19.486	-7.38	-3.300	19.537	-1.67	132+9.043	PT		19.592	18.806	0.786	3.300	19.647	1.67	4.000	19.619	-4.05	4.865	19.042	-66.67
-5.667	18.442	-66.67	-4.000	19.553	-5.73	-3.300	19.593	-0.02	133+0.000			19.594	18.797	0.797	3.300	19.595	0.02	4.000	19.555	-5.70	4.807	19.017	-66.67
-4.919	19.053	-66.67	-4.000	19.665	-3.00	-3.300	19.686	2.72	133+17.340	PC		19.597	18.880	0.717	3.300	19.507	-2.72	4.000	19.448	-8.43	4.890	18.855	-66.67
-4.858	19.108	-66.67	-4.000	19.680	-2.65	-3.300	19.698	3.07	134+0.000			19.597	18.904	0.693	3.300	19.496	-3.07	4.000	19.435	-8.78	4.962	18.793	-66.67
-4.805	19.177	-66.67	-4.000	19.714	-1.83	-3.300	19.727	3.89	134+10.000			19.599	18.949	0.650	3.300	19.471	-3.89	4.000	19.403	-9.60	4.972	18.756	-66.67
-4.887	19.129	-66.67	-4.000	19.720	-1.71	-3.300	19.732	4.00	135+0.000			19.600	18.985	0.615	3.300	19.468	-4.00	4.000	19.400	-9.71	4.898	18.802	-66.67
-4.860	19.147	-66.67	-4.000	19.721	-1.71	-3.300	19.733	4.00	135+2.544			19.601	19.014	0.586	3.300	19.469	-4.00	4.000	19.401	-9.71	4.842	18.839	-66.67
-4.826	19.171	-66.67	-4.000	19.722	-1.71	-3.300	19.734	4.00	135+10.000			19.602	19.162	0.440	3.300	19.470	-4.00	4.000	19.402	-9.71	4.788	18.877	-66.67
-5.905	18.452	-66.67	-4.000	19.722	-1.76	-3.300	19.734	3.96	136+0.000			19.604	19.130	0.473	3.300	19.473	-3.96	4.000	19.405	-9.67	4.519	19.059	-66.67
-5.804	18.469	-66.67	-4.000	19.671	-3.05	-3.300	19.693	2.67	136+7.749	PT		19.605	18.843	0.762	3.300	19.517	-2.67	4.000	19.458	-8.38	4.538	19.100	-66.67
-5.672	18.477	-66.67	-4.000	19.592	-5.09	-3.300	19.627	0.62	137+0.000			19.607	18.865	0.742	3.300	19.524	-2.50	4.000	19.467	-8.21	4.522	19.119	-66.67
-5.379	18.563	-66.67	-4.000	19.483	-7.90	-3.300	19.538	-2.18	138+0.000			19.610	18.959	0.651	3.300	19.527	-2.50	4.000	19.470	-8.21	4.667	19.025	-66.67
-6.048	18.047	-66.67	-4.000	19.413	-8.21	-3.300	19.470	-2.50	139+0.000			19.553	18.970	0.583	3.300	19.470	-2.50	4.000	19.413	-8.21	5.670	18.299	-66.67
-5.965	18.045	-66.67	-4.000	19.355	-8.21	-3.300	19.413	-2.50	140+0.000			19.495	18.686	0.809	3.300	19.413	-2.50	4.000	19.355	-8.21	4.651	18.921	-66.67
-5.845	18.068	-66.67	-4.000	19.298	-8.21	-3.300	19.355	-2.50	141+0.000			19.438	18.080	1.358	3.300	19.355	-2.50	4.000	19.298	-8.21	4.694	18.835	-66.67
-5.813	18.063	-66.67	-4.000	19.271	-8.21	-3.300	19.329	-2.50	141+9.229	PC		19.411	18.865	0.546	3.300	19.329	-2.50	4.000	19.271	-8.21	4.626	18.854	-66.67
-5.809	18.063	-66.67	-4.000	19.269	-8.21	-3.300	19.327	-2.50	141+10.000			19.409	18.876	0.533	3.300	19.327	-2.50	4.000	19.269	-8.21	4.620	18.856	-66.67
-5.745	18.077	-66.67	-4.000	19.240	-8.21	-3.300	19.298	-2.50	142+0.000			19.380	18.649	0.731	3.300	19.298	-2.50	4.000	19.240	-8.21	4.557	18.869	-66.67
-5.712	18.070	-66.67	-4.000	19.212	-8.21	-3.300	19.269	-2.50	142+10.000			19.352	18.756	0.596	3.300	19.269	-2.50	4.000	19.212	-8.21	4.515	18.868	-66.67
-5.666	18.073	-66.67	-4.000	19.183	-8.21	-3.300	19.240	-2.50	143+0.000			19.323	18.781	0.542	3.300	19.240	-2.50	4.000	19.183	-8.21	4.829	18.630	-66.67
-4.703	18.705	-66.67	-4.000	19.173	-8.21	-3.300	19.231	-2.50	143+3.427			19.313	18.750	0.563	3.300	19.231	-2.50	4.000	19.173	-8.21	4.480	18.853	-66.67
-5.612	18.079	-66.67	-4.000	19.154	-8.21	-3.300	19.212	-2.50	143+10.000			19.294	18.681	0.613	3.300	19.212	-2.50	4.000	19.154	-8.21	5.085	18.431	-66.67
-5.593	18.063	-66.67	-4.000	19.125	-8.21	-3.300	19.183	-2.50	144+0.000			19.265	18.531	0.734	3.300	19.183	-2.50	4.000	19.125	-8.21	5.846	17.895	-66.67
-5.553	18.061	-66.67	-4.000	19.097	-8.21	-3.300	19.154	-2.50	144+10.000			19.237	18.361	0.876	3.300	19.154	-2.50	4.000	19.097	-8.21	5.831	17.876	-66.67
-5.532	18.054	-66.67	-4.000	19.075	-8.21	-3.300	19.132	-2.50	144+17.625	PT		19.215	18.254	0.961	3.300	19.132	-2.50	4.000	19.075	-8.21	5.770	17.895	-66.67
-5.559	18.028	-66.67	-4.000	19.068	-8.21	-3.300	19.126	-2.50	145+0.000			19.208	18.232	0.976	3.300	19.126	-2.50	4.000	19.068	-8.21	5.795	17.871	-66.67
-5.410	18.071	-66.67	-4.000	19.011	-8.21	-3.300	19.068	-2.50	146+0.000		BVC	19.151	18.167	0.984	3.300	19.068	-2.50	4.000	19.011	-8.21	5.672	17.896	-66.67
-5.323	18.071	-66.67	-4.000	18.953	-8.21	-3.300	19.011	-2.50	147+0.000			19.093	18.157	0.936	3.300	19.022	-2.16	4.000	18.967	-7.88	5.619	17.887	-66.67
-5.255	18.066	-66.67	-4.000	18.902	-8.21	-3.300	18.960	-2.50	148+0.000			19.042	18.124	0.919	3.300	19.064	0.67	4.000	19.029	-5.05	5.680	17.909	-66.67
-4.998	18.204	-66.67	-4.000	18.870	-8.38	-3.300	18.928	-2.67	148+11.988	PC		19.016	18.125	0.892	3.300	19.104	2.67	4.000	19.083	-3.05	5.804	17.881	-66.67



Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
6 / 7

Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
NOTAS DE SERVIÇO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

Nota de Serviço Tabela

COR - RM MERCEDES MINATTO ALI - RM MERCEDES MINATTO 0+0.000 155+0.000

Lado Esquerdo									Eixo						Lado Direito								
FINAL DE TALUDE			ACOSTAMENTO			BORDO_PISTA			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO_PISTA			ACOSTAMENTO			FINAL DE TALUDE		
Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)							Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-4.969	18.155	-66.67	-4.000	18.801	-9.71	-3.300	18.869	-4.00	149+0.000			19.001	18.151	0.850	3.300	19.133	4.00	4.000	19.121	-1.71	5.854	17.886	-66.67
-5.065	18.075	-66.67	-4.000	18.785	-9.71	-3.300	18.853	-4.00	149+10.000			18.985	18.207	0.778	3.300	19.117	4.00	4.000	19.105	-1.71	5.046	18.407	-66.67
-5.069	18.058	-66.67	-4.000	18.771	-9.71	-3.300	18.839	-4.00	150+0.000			18.971	18.206	0.765	3.300	19.103	4.00	4.000	19.091	-1.71	6.060	17.717	-66.67
-5.104	18.028	-66.67	-4.000	18.764	-9.71	-3.300	18.832	-4.00	150+5.215			18.964	18.199	0.766	3.300	19.096	4.00	4.000	19.084	-1.71	6.021	17.737	-66.67
-5.075	18.042	-66.67	-4.000	18.759	-9.71	-3.300	18.827	-4.00	150+10.000			18.959	18.191	0.769	3.300	19.091	4.00	4.000	19.079	-1.71	6.002	17.744	-66.67
-5.050	18.051	-66.67	-4.000	18.750	-9.71	-3.300	18.818	-4.00	151+0.000			18.950	18.153	0.798	3.300	19.082	4.00	4.000	19.070	-1.71	5.985	17.747	-66.67
-5.403	17.809	-66.67	-4.000	18.744	-9.71	-3.300	18.812	-4.00	151+10.000			18.944	18.072	0.872	3.300	19.076	4.00	4.000	19.064	-1.71	5.977	17.746	-66.67
-5.459	17.822	-66.67	-4.000	18.794	-8.38	-3.300	18.853	-2.67	151+18.442	PT		18.941	18.029	0.911	3.300	19.029	2.67	4.000	19.007	-3.05	5.878	17.755	-66.67
-5.481	17.813	-66.67	-4.000	18.800	-8.21	-3.300	18.858	-2.50	152+0.000		EVC	18.940	18.019	0.922	3.300	19.020	2.41	4.000	18.997	-3.31	5.862	17.756	-66.67
-4.981	18.149	-66.67	-4.000	18.803	-8.21	-3.300	18.861	-2.50	153+7.291	PC		18.943	18.025	0.919	3.300	18.881	-1.88	4.000	18.828	-7.60	5.455	17.858	-66.67
-4.549	18.438	-66.67	-4.000	18.804	-8.21	-3.300	18.862	-2.50	153+10.000			18.944	18.046	0.898	3.300	18.874	-2.13	4.000	18.819	-7.84	5.481	17.832	-66.67
-4.527	18.457	-66.67	-4.000	18.809	-8.21	-3.300	18.866	-2.50	154+0.000			18.949	18.058	0.890	3.300	18.866	-2.50	4.000	18.809	-8.21	5.157	18.037	-66.67
-4.774	18.295	-66.67	-4.000	18.811	-8.21	-3.300	18.868	-2.50	154+5.260			18.951	18.052	0.899	3.300	18.868	-2.50	4.000	18.811	-8.21	4.999	18.145	-66.67
-4.856	18.242	-66.67	-4.000	18.813	-8.21	-3.300	18.870	-2.50	154+10.000			18.953	18.022	0.931	3.300	18.870	-2.50	4.000	18.813	-8.21	4.881	18.225	-66.67
-5.082	18.095	-66.67	-4.000	18.817	-8.21	-3.300	18.874	-2.50	155+0.000		BVC	18.957	18.019	0.937	3.300	18.874	-2.50	4.000	18.817	-8.21	4.905	18.213	-66.67



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Prancha:
7 / 7

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Conteúdo
NOTAS DE SERVIÇO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

Relatório de Alinhamento Horizontal por Estaca			
Alinhamento: ALI - RM MERCEDES MINATTO			
Estaca	Norte	Este	Cota
0+0,000	6817027,1302038	639353,5154874	25,2224064
1+0,000	6817010,1599003	639342,9320665	25,2526777
2+0,000	6816993,1895967	639332,3486456	25,2829490
3+0,000	6816976,2192932	639321,7652248	25,3132203
4+0,000	6816959,2489896	639311,1818039	25,3434915
5+0,000	6816942,2786861	639300,5983830	25,3737628
6+0,000	6816925,3083825	639290,0149622	25,4040341
6+7,093 PC	6816919,2902245	639286,2617766	25,4147692
7+0,000	6816907,9282723	639280,1563302	25,4343054
8+0,000	6816889,0295767	639273,7136795	25,4645767
8+9,145 PT	6816880,0402518	639272,0516494	25,4784181
9+0,000	6816869,2869773	639270,5680639	25,4948480
10+0,000	6816849,4746483	639267,8346376	25,5250266
10+19,894 PC	6816829,7672335	639265,1156858	25,5323953
11+0,000	6816829,6623336	639265,1011084	25,5323274
12+0,000	6816810,8126842	639258,7655656	25,4991645
12+12,008 PT	6816801,0636998	639251,7965245	25,4598114
13+0,000	6816795,1182839	639246,4564431	25,4255382
14+0,000	6816780,2389776	639233,0920784	25,3114483
15+0,000	6816765,3596713	639219,7277137	25,1568948
15+11,855 PC	6816756,5401066	639211,8061160	25,0501825
16+0,000	6816750,3356042	639206,5305089	24,9806692
17+0,000	6816733,9644446	639195,0678350	24,8438601
17+14,065 PT	6816721,6079913	639188,3608117	24,7764852
18+0,000	6816716,2644808	639185,7768788	24,7551959
19+0,000	6816698,2591339	639177,0701295	24,7146766
19+10,377 PC	6816688,9173381	639172,5527673	24,7126234
20+0,000	6816680,1544417	639168,5777042	24,7223022
21+0,000	6816661,3771546	639161,7171990	24,7780727
21+12,996 PT	6816648,8409073	639158,2999923	24,8295396
22+0,000	6816642,0261407	639156,6830135	24,8526698
23+0,000	6816622,5664291	639152,0656959	24,8939825
24+0,000	6816603,1067174	639147,4483783	24,8986548
25+0,000	6816583,6470057	639142,8310607	24,8666864
26+0,000	6816564,1872941	639138,2137430	24,7980775
27+0,000	6816544,7275824	639133,5964254	24,6987047

Relatório de Alinhamento Horizontal por Estaca			
Alinhamento: ALI - RM MERCEDES MINATTO			
Estaca	Norte	Este	Cota
28+0,000	6816525,2678708	639128,9791078	24,5967443
29+0,000	6816505,8081591	639124,3617902	24,5087712
30+0,000	6816486,3484474	639119,7444726	24,4392409
31+0,000	6816466,8887358	639115,1271550	24,3881534
32+0,000	6816447,4290241	639110,5098374	24,3555086
33+0,000	6816427,9693124	639105,8925198	24,3413066
34+0,000	6816408,5096008	639101,2752022	24,3390253
35+0,000	6816389,0498891	639096,6578845	24,3369772
36+0,000	6816369,5901774	639092,0405669	24,3349292
37+0,000	6816350,1304658	639087,4232493	24,3328811
37+3,960 PC	6816346,2776596	639086,5090719	24,3324756
38+0,000	6816330,7044639	639082,6675153	24,3294426
39+0,000	6816311,3863711	639077,4911325	24,3137601
39+14,377 PT	6816297,5728155	639073,5064216	24,2934990
40+0,000	6816292,1826346	639071,9049616	24,2835294
40+19,884 PC	6816273,1220909	639066,2419423	24,2390520
41+0,000	6816273,0109066	639066,2089238	24,2387504
42+0,000	6816253,7210585	639060,9325770	24,1804774
43+0,000	6816234,2217687	639056,4923326	24,1194145
43+4,684 PT	6816229,6289671	639055,5742452	24,1051146
44+0,000	6816214,5948250	639052,6477965	24,0583517
45+0,000	6816194,9632866	639048,8264484	23,9972888
46+0,000	6816175,3317483	639045,0051003	23,9362259
47+0,000	6816155,7002099	639041,1837522	23,8751631
48+0,000	6816136,0686715	639037,3624041	23,8141002
48+14,729 PC	6816121,6112439	639034,5482149	23,7691311
49+0,000	6816116,4223489	639033,6214283	23,7530373
50+0,000	6816096,5386248	639031,5778116	23,6919745
51+0,000	6816076,5524745	639031,8821904	23,6309116
51+3,225 PT	6816073,3386721	639032,1512895	23,6210649
52+0,000	6816056,6362959	639033,7094917	23,5698487
53+0,000	6816036,7227663	639035,5672697	23,5087859
54+0,000	6816016,8092368	639037,4250477	23,4477230
55+0,000	6815996,8957072	639039,2828257	23,3866601
56+0,000	6815976,9821776	639041,1406037	23,3255973
56+13,878 PC	6815963,1640380	639042,4297291	23,2832253

Relatório de Alinhamento Horizontal por Estaca			
Alinhamento: ALI - RM MERCEDES MINATTO			
Estaca	Norte	Este	Cota
57+0,000	6815957,0876136	639043,1676586	23,2645344
58+0,000	6815937,6856348	639047,9071208	23,2034715
59+0,000	6815919,4604478	639056,0766891	23,1424087
59+3,273 PT	6815916,6323229	639057,7230699	23,1324171
60+0,000	6815902,3028267	639066,3528312	23,0813458
61+0,000	6815885,1699045	639076,6709210	23,0202829
62+0,000	6815868,0369823	639086,9890109	22,9592201
63+0,000	6815850,9040601	639097,3071007	22,8981572
64+0,000	6815833,7711380	639107,6251905	22,8370943
64+8,660 PC	6815826,3529466	639112,0927043	22,8106554
65+0,000	6815816,9013257	639118,3531368	22,7760315
66+0,000	6815801,6672681	639131,2821292	22,7149686
67+0,000	6815788,5591907	639146,3623701	22,6539057
67+3,630 PT	6815786,4323260	639149,3038144	22,6428230
68+0,000	6815777,0237373	639162,6999802	22,5928429
68+8,415 PC	6815772,1873281	639169,5861713	22,5671510
69+0,000	6815764,9441741	639178,6177919	22,5317800
70+0,000	6815749,9555101	639191,7985516	22,4707171
71+0,000	6815732,4537874	639201,3944978	22,4096543
71+0,617 PT	6815731,8823882	639201,6282022	22,4077694
72+0,000	6815713,9174981	639208,9048770	22,3485914
73+0,000	6815695,3804184	639216,4133171	22,2875285
74+0,000	6815676,8433386	639223,9217573	22,2264657
75+0,000	6815658,3062588	639231,4301974	22,1654028
75+5,190 PC	6815653,4956055	639233,3787515	22,1495561
76+0,000	6815639,5172242	639238,2525453	22,1043399
77+0,000	6815620,0113516	639242,6032572	22,0432771
77+6,550 PT	6815613,5174749	639243,4585410	22,0232775
78+0,000	6815600,1479429	639244,9232092	21,9822142
79+0,000	6815580,2668912	639247,1012319	21,9211513
80+0,000	6815560,3858395	639249,2792546	21,8600885
80+0,940 PC	6815559,4510241	639249,3816662	21,8572173
81+0,000	6815540,8164924	639253,2448119	21,7990256
82+0,000	6815522,4237321	639261,0149347	21,7379628
82+4,074 PT	6815518,8882926	639263,0395940	21,7255230
83+0,000	6815505,2325303	639271,2337595	21,6768999



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Relatório de Alinhamento Horizontal por Estaca			
Alinhamento: ALI - RM MERCEDES MINATTO			
Estaca	Norte	Este	Cota
84+0,000	6815488,0830641	639281,5243286	21,6158370
84+13,433 PC	6815476,5643923	639288,4361290	21,5748233
85+0,000	6815471,0093428	639291,9370517	21,5547742
86+0,000	6815455,1103799	639304,0461697	21,4937113
87+0,000	6815440,9623013	639318,1613966	21,4326484
87+1,284 PT	6815440,1202222	639319,1300379	21,4287297
88+0,000	6815427,9012070	639333,3075915	21,3715856
89+0,000	6815414,8442620	639348,4573832	21,3105227
90+0,000	6815401,7873171	639363,6071749	21,2494598
91+0,000	6815388,7303721	639378,7569666	21,1883970
92+0,000	6815375,6734272	639393,9067582	21,1273341
93+0,000	6815362,6164822	639409,0565499	21,0662712
94+0,000	6815349,5595373	639424,2063416	21,0052084
95+0,000	6815336,5025923	639439,3561333	20,9441455
96+0,000	6815323,4456473	639454,5059250	20,8830826
97+0,000	6815310,3887024	639469,6557167	20,8220198
98+0,000	6815297,3317574	639484,8055084	20,7609569
99+0,000	6815284,2748125	639499,9553001	20,6998940
100+0,000	6815271,2178675	639515,1050918	20,6388312
100+13,066 PC	6815262,6876064	639525,0026352	20,5989381
101+0,000	6815257,9908567	639530,1016598	20,5777683
102+0,000	6815242,6938060	639542,9388063	20,5167054
103+0,000	6815225,2430028	639552,6476456	20,4556426
103+12,369 PT	6815213,6454582	639556,9280501	20,4178771
104+0,000	6815206,3437348	639559,1441438	20,3945797
105+0,000	6815187,2057585	639564,9525740	20,3335168
106+0,000	6815168,0677821	639570,7610041	20,2724540
107+0,000	6815148,9298057	639576,5694342	20,2113911
108+0,000	6815129,7918294	639582,3778644	20,1503282
109+0,000	6815110,6538530	639588,1862945	20,0892654
110+0,000	6815091,5158766	639593,9947246	20,0282025
111+0,000	6815072,3779003	639599,8031548	19,9671396
112+0,000	6815053,2399239	639605,6115849	19,9060768
112+17,740 PC	6815036,2647392	639610,7636016	19,8519147
113+0,000	6815034,0953562	639611,3977498	19,8450139
114+0,000	6815014,4571564	639615,0364854	19,7839510

Relatório de Alinhamento Horizontal por Estaca			
Alinhamento: ALI - RM MERCEDES MINATTO			
Estaca	Norte	Este	Cota
115+0,000	6814994,4847126	639615,0643004	19,7237416
115+9,365 PT	6814985,2037736	639613,8312384	19,6981136
116+0,000	6814974,7308862	639611,9832599	19,6715869
117+0,000	6814955,0351577	639608,5078781	19,6291170
118+0,000	6814935,3394292	639605,0324963	19,5963319
119+0,000	6814915,6437007	639601,5571145	19,5732316
120+0,000	6814895,9479722	639598,0817327	19,5598161
121+0,000	6814876,2522437	639594,6063509	19,5560854
122+0,000	6814856,5565152	639591,1309691	19,5590457
122+18,535 PC	6814838,3030223	639587,9100750	19,5619942
123+0,000	6814836,8601502	639587,6592301	19,5622271
124+0,000	6814817,0463817	639584,9655224	19,5654085
125+0,000	6814797,0940884	639583,6436019	19,5685900
126+0,000	6814777,0981305	639583,6997536	19,5717714
127+0,000	6814757,1535761	639585,1337105	19,5749528
127+7,487 PT	6814749,7197700	639586,0237788	19,5761438
128+0,000	6814737,3158555	639587,6716063	19,5781342
129+0,000	6814717,4900376	639590,3054144	19,5813157
129+10,441 PC	6814707,1404490	639591,6803301	19,5829765
130+0,000	6814697,6765727	639593,0279577	19,5844971
131+0,000	6814677,9675834	639596,4197836	19,5876785
132+0,000	6814658,4067259	639600,5817051	19,5908599
132+9,043 PT	6814649,6187918	639602,7147138	19,5922985
133+0,000	6814638,9944876	639605,3934074	19,5940414
133+17,340 PC	6814622,1804537	639609,6327105	19,5967997
134+0,000	6814619,5816795	639610,1967726	19,5972228
135+0,000	6814599,8371625	639608,8220556	19,6004042
136+0,000	6814583,1687930	639598,1496021	19,6035856
136+7,749 PT	6814578,4596033	639592,0115547	19,6048182
137+0,000	6814571,9770288	639581,6156459	19,6067671
138+0,000	6814561,3945097	639564,6447800	19,6099485
139+0,000	6814550,8119907	639547,6739141	19,5525808
140+0,000	6814540,2294716	639530,7030482	19,4951583
141+0,000	6814529,6469526	639513,7321822	19,4377358
141+9,229 PC	6814524,7635727	639505,9008535	19,4112378
142+0,000	6814518,8738763	639496,8838866	19,3803133

Relatório de Alinhamento Horizontal por Estaca			
Alinhamento: ALI - RM MERCEDES MINATTO			
Estaca	Norte	Este	Cota
143+0,000	6814506,9537623	639480,8306167	19,3228908
144+0,000	6814493,8171209	639465,7566245	19,2654682
144+17,625 PT	6814481,2955050	639453,3576180	19,2148640
145+0,000	6814479,5515419	639451,7457555	19,2080457
146+0,000	6814464,8640826	639438,1708324	19,1506232
147+0,000	6814450,1766233	639424,5959093	19,0932605
148+0,000	6814435,4891639	639411,0209861	19,0420932
148+11,988 PC	6814426,6858020	639402,8844556	19,0163569
149+0,000	6814420,4565949	639397,8545105	19,0012161
150+0,000	6814402,4951060	639389,2699369	18,9706294
151+0,000	6814382,7134454	639387,0347882	18,9503329
151+18,442 PT	6814364,7391795	639390,8252428	18,9407367
152+0,000	6814363,2819820	639391,3762684	18,9403268
153+0,000	6814344,5747850	639398,4502194	18,9406110
153+7,291 PC	6814337,7555347	639401,0288549	18,9432353
154+0,000	6814325,5674524	639404,5867574	18,9485036
155+0,000	6814305,6883009	639406,2720818	18,9567940



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