



PROPOSTA Nº 032661/2021

CONVÊNIO Nº 916982/2021

OBRA: PAVIMENTAÇÃO ASFÁLTICA

LOCAL: MORRO REDONDO - ZONA RURAL - OEIRAS

NOTA DE SERVIÇO

Rodovia:

Trrecho:

Sub-trecho:

Estaca + fração	Offset esquerdo			Bordo esquerdo			Cota			Bordo direito			Offset direito		
	Dist.	Cota	Cob	Dist.	Cota	Terreno	Eixo	Vermelha	Dist.	Cota	Dist.	Cota	Cob		
E0	-5.650	274.272	-0.151	-5.500	274.121	274.231	274.231	0.000	5.500	274.121	5.706	274.327	-0.206		
E1	-6.473	272.904	0.648	-5.500	273.552	272.940	273.662	0.722	5.500	273.552	6.725	272.736	0.816		
E2	-6.433	272.361	0.622	-5.500	272.983	272.349	273.093	0.745	5.500	272.983	6.383	272.395	0.588		
E3	-6.118	272.002	0.412	-5.500	272.414	271.852	272.524	0.672	5.500	272.414	6.191	271.954	0.460		
E4	-6.067	271.467	0.378	-5.500	271.845	271.382	271.955	0.573	5.500	271.845	6.170	271.399	0.446		
E5	-6.226	270.792	0.484	-5.500	271.276	270.855	271.386	0.532	5.500	271.276	6.105	270.873	0.403		
E6	-6.103	270.306	0.401	-5.500	270.707	270.320	270.817	0.498	5.500	270.707	6.127	270.289	0.418		
E7	-5.980	269.818	0.320	-5.500	270.138	269.730	270.248	0.518	5.500	270.138	5.991	269.811	0.327		
E8	-5.851	269.335	0.234	-5.500	269.569	269.353	269.679	0.327	5.500	269.569	5.654	269.467	0.102		
E9	-5.923	268.718	0.282	-5.500	269.000	269.048	269.110	0.063	5.500	269.000	5.601	268.933	0.067		
E10	-5.770	268.252	0.179	-5.500	268.431	268.444	268.541	0.098	5.500	268.431	5.627	268.347	0.084		
E11	-5.665	267.752	0.110	-5.500	267.862	267.875	267.972	0.098	5.500	267.862	5.801	268.163	-0.301		
E12	-5.550	267.260	0.033	-5.500	267.293	267.270	267.403	0.134	5.500	267.293	5.562	267.356	-0.063		
E13	-5.556	266.687	0.037	-5.500	266.724	266.765	266.834	0.069	5.500	266.724	5.605	266.829	-0.105		
E14	-5.565	266.221	-0.066	-5.500	266.155	266.165	266.265	0.100	5.500	266.155	5.654	266.309	-0.154		
E15	-5.771	265.857	-0.271	-5.500	265.586	265.679	265.696	0.017	5.500	265.586	5.625	265.712	-0.126		
E16	-5.522	265.040	-0.023	-5.500	265.017	265.239	265.127	-0.111	5.500	265.017	5.712	265.229	-0.212		
E17	-5.600	264.382	0.066	-5.500	264.448	264.487	264.558	0.072	5.500	264.448	5.734	264.683	-0.235		
E18	-5.667	263.768	0.111	-5.500	263.879	263.891	263.989	0.099	5.500	263.879	5.616	263.996	-0.117		
E19	-5.547	263.279	0.031	-5.500	263.310	263.263	263.420	0.158	5.500	263.310	5.534	263.345	-0.035		
E20	-5.639	262.880	-0.139	-5.500	262.741	262.554	262.851	0.298	5.500	262.741	5.618	262.663	0.078		
E21	-5.821	262.559	-0.321	-5.500	262.238	262.071	262.348	0.277	5.500	262.238	5.892	261.976	0.262		
E22	-5.907	262.157	-0.407	-5.500	261.750	261.313	261.860	0.547	5.500	261.750	5.970	261.437	0.313		
E23	-5.535	261.313	-0.034	-5.500	261.279	260.670	261.389	0.718	5.500	261.279	6.056	260.908	0.371		
E24	-5.725	260.673	0.150	-5.500	260.823	260.384	260.933	0.549	5.500	260.823	6.581	260.102	0.721		
E25	-5.861	260.143	0.241	-5.500	260.384	259.868	260.494	0.625	5.500	260.384	6.172	259.936	0.448		
E26	-5.874	259.711	0.249	-5.500	259.960	259.432	260.070	0.638	5.500	259.960	6.334	259.404	0.556		
E27	-5.853	259.318	0.235	-5.500	259.553	259.180	259.663	0.483	5.500	259.553	5.898	259.288	0.265		
E28	-5.846	258.932	0.230	-5.500	259.162	258.815	259.272	0.457	5.500	259.162	5.976	258.844	0.318		
E29	-5.905	258.517	0.270	-5.500	258.787	258.436	258.897	0.461	5.500	258.787	5.721	258.639	0.148		
E30	-5.808	258.222	0.206	-5.500	258.428	258.108	258.538	0.430	5.500	258.428	5.772	258.247	0.181		
E31	-5.615	258.008	0.077	-5.500	258.085	257.722	258.195	0.473	5.500	258.085	5.712	257.944	0.141		
E32	-5.527	257.740	0.018	-5.500	257.758	257.553	257.868	0.315	5.500	257.758	5.617	257.680	0.078		
E33	-5.539	257.421	0.026	-5.500	257.447	257.187	257.557	0.370	5.500	257.447	5.696	257.316	0.131		
E34	-5.817	256.941	0.211	-5.500	257.152	256.953	257.262	0.309	5.500	257.152	5.692	257.025	0.127		
E35	-6.048	256.500	0.365	-5.500	256.865	256.597	256.975	0.378	5.500	256.865	5.624	256.783	0.082		
E36	-6.137	256.154	0.425	-5.500	256.579	256.314	256.689	0.375	5.500	256.579	5.562	256.537	0.042		
E37	-6.070	255.876	0.380	-5.500	256.256	256.098	256.366	0.267	5.500	256.256	5.526	256.238	0.018		
E38	-5.798	255.734	0.199	-5.500	255.933	255.892	256.043	0.152	5.500	255.933	5.703	255.798	0.135		
E39	-5.677	255.493	0.117	-5.500	255.610	255.605	255.720	0.116	5.500	255.610	5.686	255.486	0.124		
E40	-5.625	255.204	0.084	-5.500	255.288	255.310	255.398	0.087	5.500	255.288	5.593	255.380	-0.092		
E41	-5.504	254.969	-0.004	-5.500	254.965	254.808	255.075	0.267	5.500	254.965	5.649	255.114	-0.149		
E42	-5.543	254.684	-0.042	-5.500	254.642	254.483	254.752	0.269	5.500	254.642	5.665	254.807	-0.165		
E43	-5.607	254.248	0.071	-5.500	254.319	254.318	254.429	0.111	5.500	254.319	5.551	254.370	-0.051		
E44	-5.604	253.927	0.069	-5.500	253.996	254.017	254.106	0.089	5.500	253.996	5.516	254.013	-0.017		
E45	-5.586	253.760	-0.086	-5.500	253.674	253.717	253.784	0.066	5.500	253.674	5.599	253.772	-0.098		
E46	-5.609	253.459	-0.108	-5.500	253.351	253.413	253.461	0.048	5.500	253.351	5.531	253.330	0.021		
E47	-5.786	253.314	-0.286	-5.500	253.028	253.366	253.138	-0.228	5.500	253.028	5.715	253.243	-0.215		
E48	-5.833	253.038	-0.333	-5.500	252.705	253.048	252.815	-0.233	5.500	252.705	5.517	252.722	-0.017		
E49	-5.762	252.644	-0.262	-5.500	252.382	252.501	252.492	-0.009	5.500	252.382	5.618	252.304	0.078		
E50	-5.715	252.274	-0.214	-5.500	252.060	252.140	252.170	0.029	5.500	252.060	5.590	251.999	0.061		
E51	-5.872	252.109	-0.372	-5.500	251.737	251.840	251.847	0.007	5.500	251.737	5.541	251.777	-0.040		
E52	-5.790	251.704	-0.290	-5.500	251.414	251.670	251.524	-0.146	5.500	251.414	5.588	251.502	-0.088		
E53	-5.908	251.499	-0.408	-5.500	251.091	251.521	251.201	-0.320	5.500	251.091	5.612	251.203	-0.112		
E54	-5.814	251.083	-0.315	-5.500	250.768	251.343	250.878	-0.464	5.500	250.768	5.608	250.876	-0.108		
E55	-5.770	250.715	-0.269	-5.500	250.446	250.246	250.556	0.309	5.500	250.446	5.692	250.318	0.128		
E56	-5.550	250.173	-0.050	-5.500	250.123	249.978	250.233	0.255	5.500	250.123	5.711	249.982	0.141		
E57	-5.976	250.276	-0.476	-5.500	249.800	249.817	249.910	0.093	5.500	249.800	5.661	249.693	0.107		
E58	-6.237	250.214	-0.737	-5.500	249.477	249.329	249.587	0.258	5.500	249.477	5.680	249.658	-0.181		
E59	-5.986	249.640	-0.486	-5.500	249.154	248.930	249.264	0.334	5.500	249.154	5.930	248.867	0.287		
E60	-5.717	249.049	-0.217	-5.500	248.832	248.838	248.942	0.104	5.500	248.832	6.046	248.467	0.365		
E61	-5.623	248.427	0.082	-5.500	248.509	248.189	248.619	0.430	5.500	248.509	6.079	248.123	0.386		
E62	-5.658	248.081	0.105	-5.500	248.186	247.668	248.296	0.628	5.500	248.186	6.162	247.745	0.441		
E63	-5.547	247.975	-0.048	-5.500	247.927	247.516	248.037	0.521	5.500	247.927	6.174	247.478	0.449		
E64	-5.797	247.499	0.198	-5.500	247.697	247.851	247.807	-0.044	5.500	247.697	5.965	247.387	0.310		
E65	-6.316	246.922	0.544	-5.500	247.466	247.020	247.576	0.556	5.500	247.466	6.625	246.716	0.750		
E66	-6.383	246.647	0.589	-5.500	247.236	246.439	247.346	0.906	5.500	247.236	6.825	246.353	0.883		
E67	-6.392	246.410	0.595	-5.500	247.005	246.407	247.115	0.708	5.500	247.005	5.999	246.672	0.333		
E68	-6.112	246.367	0.407	-5.500	246.774	245.919	246.884	0.966	5.500	246.774	5.521	246.795	-0.021		
E69	-5.844	246.314	0.230	-5.500	246.544	246.068	246.654	0.586	5.500	246.544	5.622	246.666.			

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Trecho:

Sub-trecho:

Estaca + fração	Offset esquerdo			Bordo esquerdo		Cota			Bordo direito		Offset direito		
	Dist.	Cota	Cob	Dist.	Cota	Terreno	Eixo	Vermelha	Dist.	Cota	Dist.	Cota	Cob
E74	-5,876	245,140	0,251	-5,500	245,391	244,980	245,501	0,520	5,500	245,391	5,891	245,130	0,261
E75	-5,569	245,229	-0,069	-5,500	245,160	244,848	245,270	0,422	5,500	245,160	5,695	245,031	0,129
E76	-5,799	244,730	0,200	-5,500	244,930	244,562	245,040	0,478	5,500	244,930	5,959	244,624	0,306
E77	-5,506	244,693	0,004	-5,500	244,697	244,307	244,807	0,500	5,500	244,697	5,720	244,550	0,147
E78	-5,693	244,317	0,129	-5,500	244,446	244,349	244,556	0,207	5,500	244,446	5,541	244,487	-0,041
E79	-5,944	243,899	0,296	-5,500	244,195	244,078	244,305	0,227	5,500	244,195	5,887	243,937	0,258
E80	-5,763	243,779	0,175	-5,500	243,954	243,874	244,064	0,190	5,500	243,954	5,517	243,943	0,011



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E81	-5.504	243,731	-0.004	-5.500	243,727	243,980	243,837	-0.142	5,500	243,727	5,790	244,017	-0.290		
E82	-5.825	243,839	-0.325	-5.500	243,514	244,244	243,624	-0.619	5,500	243,514	6,342	244,356	-0.842		
E83	-6.665	244,480	-1.165	-5.500	243,315	244,183	243,425	-0.758	5,500	243,315	6,388	244,203	-0.888		
E84	-6.183	243,812	-0.683	-5.500	243,129	243,990	243,239	-0.750	5,500	243,129	6,373	244,002	-0.873		
E85	-5.799	242,759	0.199	-5.500	242,958	243,141	243,068	-0.073	5,500	242,958	5,658	243,116	-0.158		
E86	-5.662	242,328	0.108	-5.500	242,436	241,668	242,546	0.878	5,500	242,436	6,659	241,663	0.773		
E87	-5.703	241,750	0.136	-5.500	241,886	241,218	241,996	0.778	5,500	241,886	6,277	241,368	0.518		
E88	-5.825	241,119	0.217	-5.500	241,336	241,413	241,446	0.033	5,500	241,336	5,634	241,246	0.090		
E89	-6.029	240,433	0.353	-5.500	240,786	240,159	240,896	0.737	5,500	240,786	6,797	239,921	0.865		
E90	-6.313	239,694	0.542	-5.500	240,236	239,276	240,346	1.069	5,500	240,236	6,566	239,525	0.711		
E91	-6.570	238,972	0.714	-5.500	239,686	239,353	239,796	0.443	5,500	239,686	6,599	238,953	0.733		
E92	-6.521	238,663	0.681	-5.500	239,344	239,011	239,454	0.443	5,500	239,344	5,804	239,648	-0.304		
E93	-6.068	239,636	-0.568	-5.500	239,068	239,417	239,178	-0.240	5,500	239,068	6,644	240,212	-1.144		
E94	-6.093	239,448	-0.592	-5.500	238,856	239,581	238,966	-0.615	5,500	238,856	6,342	239,698	-0.842		
E95	-6.426	238,091	0.617	-5.500	238,708	237,100	238,818	1.718	5,500	238,708	7,321	237,494	1.214		
E96	-6.204	238,156	0.470	-5.500	238,626	237,252	238,736	1.484	5,500	238,626	7,704	237,156	1.470		
E97	-6.322	238,060	0.548	-5.500	238,608	236,877	238,718	1.840	5,500	238,608	7,841	237,047	1.561		
E98	-6.897	237,723	0.931	-5.500	238,654	237,654	238,764	1.110	5,500	238,654	7,643	237,225	1.429		
E99	-7.162	237,658	1.108	-5.500	238,766	238,877	238,876	-0.001	5,500	238,766	6,981	237,779	0.987		
E100	-6.592	238,214	0.728	-5.500	238,942	238,397	239,052	0.655	5,500	238,942	6,270	238,428	0.514		
E101	-6.132	238,761	0.422	-5.500	239,183	238,898	239,293	0.395	5,500	239,183	5,601	239,116	0.067		
E102	-5.910	239,130	0.273	-5.500	239,403	239,327	239,513	0.186	5,500	239,403	5,830	239,733	-0.330		
E103	-6.163	239,180	0.442	-5.500	239,622	239,460	239,732	0.272	5,500	239,622	6,403	240,525	-0.903		
E104	-6.482	239,188	0.654	-5.500	239,842	239,278	239,952	0.675	5,500	239,842	5,645	239,745	0.097		
E105	-7.115	238,985	1.077	-5.500	240,062	239,495	240,172	0.677	5,500	240,062	5,742	239,901	0.161		
E106	-7.411	239,008	1.274	-5.500	240,282	239,569	240,392	0.823	5,500	240,282	6,558	239,576	0.706		
E107	-7.031	239,481	1.021	-5.500	240,502	239,780	240,612	0.831	5,500	240,502	7,037	239,477	1.025		
E108	-6.640	240,962	0.759	-5.500	240,721	239,937	240,831	0.895	5,500	240,721	7,317	239,510	1.211		
E109	-6.655	240,171	0.770	-5.500	240,941	240,065	241,051	0.987	5,500	240,941	7,296	239,744	1.197		
E110	-6.822	240,280	0.881	-5.500	241,161	240,319	241,271	0.952	5,500	241,161	7,393	239,899	1.262		
E111	-6.639	240,621	0.760	-5.500	241,381	240,678	241,491	0.813	5,500	241,381	7,122	240,299	1.082		
E112	-5.753	241,432	0.169	-5.500	241,601	241,045	241,711	0.666	5,500	241,601	6,162	241,159	0.442		
E113	-5.542	241,937	-0.042	-5.500	241,895	241,712	242,005	0.293	5,500	241,895	5,776	241,711	0.184		
E114	-5.738	242,575	-0.238	-5.500	242,337	242,346	242,447	0.101	5,500	242,337	5,796	242,634	-0.297		
E115	-5.947	243,227	-0.447	-5.500	242,780	243,010	242,890	-0.121	5,500	242,780	5,905	243,185	-0.405		
E116	-6.228	243,950	-0.728	-5.500	243,222	243,475	243,332	-0.143	5,500	243,222	6,148	243,870	-0.648		
E117	-5.918	244,082	-0.418	-5.500	243,664	244,177	243,774	-0.403	5,500	243,664	6,735	244,899	-1.235		
E118	-5.974	244,580	-0.474	-5.500	244,106	244,640	244,216	-0.424	5,500	244,106	6,727	245,333	-1.227		
E119	-6.402	245,450	-0.902	-5.500	244,548	244,789	244,658	-0.130	5,500	244,548	6,632	245,680	-1.132		
E120	-6.617	246,108	-1.117	-5.500	244,991	245,156	245,101	-0.056	5,500	244,991	6,816	246,307	-1.316		
E121	-5.650	245,583	-0.150	-5.500	245,433	245,423	245,543	0.120	5,500	245,433	6,532	246,465	-1.032		
E122	-5.810	246,185	-0.310	-5.500	245,875	246,184	245,985	-0.199	5,500	245,875	6,174	246,549	-0.674		
E123	-5.716	246,533	-0.216	-5.500	246,317	246,145	246,427	0.282	5,500	246,317	5,933	246,750	-0.433		
E124	-5.610	246,686	0.074	-5.500	246,760	246,541	246,870	0.328	5,500	246,760	5,504	246,757	0.003		
E125	-5.740	247,042	0.160	-5.500	247,202	246,970	247,312	0.342	5,500	247,202	5,762	247,464	-0.262		
E126	-6.153	248,297	-0.653	-5.500	247,644	247,432	247,754	0.322	5,500	247,644	6,106	248,250	-0.606		
E127	-5.750	248,337	-0.251	-5.500	248,086	248,100	248,196	0.096	5,500	248,086	5,845	248,432	-0.346		
E128	-6.532	249,561	-1.032	-5.500	248,529	248,554	248,639	0.085	5,500	248,529	5,995	249,023	-0.494		
E129	-6.280	249,751	-0.780	-5.500	248,971	248,983	249,081	0.098	5,500	248,971	6,259	249,730	-0.759		
E130	-6.049	249,962	-0.549	-5.500	249,413	249,403	249,523	0.120	5,500	249,413	6,478	250,391	-0.978		
E131	-5.721	250,076	-0.221	-5.500	249,855	250,036	249,965	-0.070	5,500	249,855	6,163	250,518	-0.663		
E132	-5.707	250,504	-0.207	-5.500	250,297	250,188	250,407	0.219	5,500	250,297	5,705	250,503	-0.206		
E133	-5.613	250,853	-0.113	-5.500	250,740	250,685	250,850	0.165	5,500	250,740	5,732	250,972	-0.232		
E134	-5.687	251,369	-0.187	-5.500	251,182	251,011	251,292	0.281	5,500	251,182	6,582	252,263	-1.081		
E135	-5.668	251,792	-0.168	-5.500	251,624	251,391	251,734	0.343	5,500	251,624	6,417	252,542	-0.918		
E136	-5.606	252,172	-0.106	-5.500	252,066	251,945	252,176	0.232	5,500	252,066	6,193	252,760	-0.694		
E137	-5.630	252,639	-0.130	-5.500	252,509	252,432	252,619	0.187	5,500	252,509	6,062	253,071	-0.562		
E138	-6.090	253,541	-0.590	-5.500	252,951	252,799	253,061	0.261	5,500	252,951	6,353	253,804	-0.853		
E139	-5.585	253,478	-0.085	-5.500	253,393	253,223	253,503	0.280	5,500	253,393	5,652	253,545	-0.152		
E140	-5.644	253,979	-0.144	-5.500	253,835	253,795	253,945	0.151	5,500	253,835	6,267	254,602	-0.767		
E141	-5.554	254,331	-0.053	-5.500	254,278	254,409	254,388	-0.021	5,500	254,278	6,068	254,845	-0.567		
E142	-5.582	254,801	-0.081	-5.500	254,720	254,804	254,830	0.025	5,500	254,720	5,832	255,051	-0.331		
E143	-5.912	255,574	-0.412	-5.500	255,162	255,319	255,272	-0.047	5,500	255,162	5,970	255,632	-0.470		
E144	-5.768	255,872	-0.268	-5.500	255,604	255,852	255,714	-0.137	5,500	255,604	6,139	256,244	-0.640		
E145	-5.846	256,392	-0.346	-5.500	256,046	256,276	256,156	-0.119	5,500	256,046	6,008	256,555	-0.509		
E146	-5.964	256,953	-0.464	-5.500	256,489	256,738	256,599	-0.140	5,500	256,489	6,120	257,109	-0.620		</



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NOTA DE SERVIÇO

Rodovia:

Trecho:

Sub-trecho:

Estaca + fração	Offset esquerdo			Bordo esquerdo		Cota			Bordo direito		Offset direito		
	Dist.	Cota	Cob	Dist.	Cota	Terreno	Eixo	Vermelha	Dist.	Cota	Dist.	Cota	Cob
E155	-5,972	260,669	-0,473	-5,500	260,196	260,461	260,306	-0,155	5,500	260,196	5,895	260,592	-0,396
E156	-5,831	260,830	-0,331	-5,500	260,499	260,852	260,609	-0,243	5,500	260,499	5,949	260,948	-0,449
E157	-5,678	260,952	-0,178	-5,500	260,774	260,984	260,884	-0,101	5,500	260,774	5,913	261,186	-0,412
E158	-5,575	260,971	0,050	-5,500	261,021	261,054	261,131	0,077	5,500	261,021	5,553	261,074	-0,053
E159	-5,677	261,122	0,119	-5,500	261,241	261,029	261,351	0,321	5,500	261,241	5,761	261,066	0,175
E160	-6,534	260,743	0,690	-5,500	261,433	260,931	261,543	0,612	5,500	261,433	6,150	260,999	0,434
E161	-7,192	260,469	1,128	-5,500	261,597	260,846	261,707	0,861	5,500	261,597	6,660	260,824	0,773
E162	-7,301	260,534	1,201	-5,500	261,735	260,701	261,845	1,143	5,500	261,735	6,917	260,790	0,945
E163	-6,942	260,883	0,961	-5,500	261,844	261,005	261,954	0,949	5,500	261,844	6,915	260,901	0,943
E164	-6,345	261,363	0,563	-5,500	261,926	261,167	262,036	0,869	5,500	261,926	6,558	261,221	0,705
E165	-6,225	261,498	0,483	-5,500	261,981	261,251	262,091	0,840	5,500	261,981	6,541	261,287	0,694
E166	-6,397	261,420	0,598	-5,500	262,018	261,485	262,128	0,643	5,500	262,018	5,729	261,865	0,153
E167	-5,883	261,800	0,255	-5,500	262,055	261,838	262,165	0,327	5,500	262,055	5,697	262,252	-0,197
E168	-5,713	261,950	0,142	-5,500	262,092	262,141	262,202	0,062	5,500	262,092	5,799	262,391	-0,299
E169	-5,985	262,615	-0,486	-5,500	262,129	262,627	262,239	-0,388	5,500	262,129	6,008	262,637	-0,508
E170	-6,356	263,039	-0,855	-5,500	262,184	262,718	262,294	-0,425	5,500	262,184	6,420	263,104	-0,920
E171	-6,396	263,133	-0,895	-5,500	262,238	263,024	262,348	-0,676	5,500	262,238	6,664	263,402	-1,164
E172	-6,577	263,369	-1,077	-5,500	262,292	263,387	262,402	-0,985	5,500	262,292	6,765	263,557	-1,265
E173	-6,586	263,433	-1,087	-5,500	262,346	263,628	262,456	-1,172	5,500	262,346	6,827	263,673	-1,327
E174	-6,705	263,605	-1,204	-5,500	262,401	263,758	262,511	-1,247	5,500	262,401	6,990	263,891	-1,490
E175	-6,673	263,628	-1,173	-5,500	262,455	263,650	262,565	-1,085	5,500	262,455	6,719	263,674	-1,219
E176	-6,518	263,527	-1,018	-5,500	262,509	263,512	262,619	-0,893	5,500	262,509	6,559	263,568	-1,059
E177	-6,473	263,536	-0,972	-5,500	262,564	263,427	262,674	-0,754	5,500	262,564	6,548	263,612	-1,048
E178	-6,366	263,484	-0,866	-5,500	262,618	263,435	262,728	-0,707	5,500	262,618	6,644	263,762	-1,144
E179	-6,234	263,406	-0,734	-5,500	262,672	263,422	262,782	-0,640	5,500	262,672	6,390	263,562	-0,890
E180	-6,376	263,603	-0,877	-5,500	262,726	263,466	262,836	-0,629	5,500	262,726	6,721	263,947	-1,221
E181	-6,620	263,901	-1,120	-5,500	262,781	263,506	262,891	-0,615	5,500	262,781	6,822	264,103	-1,322
E182	-6,906	264,242	-1,407	-5,500	262,835	263,531	262,945	-0,586	5,500	262,835	6,466	263,801	-0,966
E183	-6,118	263,508	-0,619	-5,500	262,889	263,541	262,999	-0,542	5,500	262,889	6,002	263,392	-0,503
E184	-6,271	263,714	-0,770	-5,500	262,944	263,481	263,054	-0,427	5,500	262,944	5,939	263,382	-0,438
E185	-5,841	263,339	-0,341	-5,500	262,998	263,437	263,108	-0,330	5,500	262,998	5,899	263,397	-0,399
E186	-5,966	263,519	-0,467	-5,500	263,052	263,367	263,162	-0,205	5,500	263,052	6,346	263,898	-0,846
E187	-5,748	263,354	-0,248	-5,500	263,106	263,288	263,216	-0,072	5,500	263,106	6,754	264,360	-1,254
E188	-5,790	263,451	-0,290	-5,500	263,161	263,368	263,271	-0,097	5,500	263,161	6,396	264,057	-0,896
E189	-5,881	263,596	-0,381	-5,500	263,215	263,418	263,325	-0,093	5,500	263,215	6,422	264,137	-0,922
E190	-5,932	263,701	-0,432	-5,500	263,269	263,516	263,379	-0,137	5,500	263,269	5,813	263,583	-0,314
E191	-6,088	263,912	-0,588	-5,500	263,324	263,745	263,434	-0,312	5,500	263,324	6,689	264,512	-1,188



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NOTA DE SERVIÇO

Rodovia:

Trecho:

Sub-trecho:

Estaca + fração	Offset esquerdo			Bordo esquerdo		Cota			Bordo direito		Offset direito		
	Dist.	Cota	Cob	Dist.	Cota	Terreno	Eixo	Vermelha	Dist.	Cota	Dist.	Cota	Cob
E192	-6,218	264,096	-0,718	-5,500	263,378	263,606	263,488	-0,118	5,500	263,378	6,475	264,353	-0,975
E193	-5,979	263,911	-0,479	-5,500	263,432	263,591	263,542	-0,049	5,500	263,432	6,258	264,190	-0,758
E194	-6,522	264,509	-1,023	-5,500	263,486	263,708	263,596	-0,111	5,500	263,486	6,776	264,763	-1,277
E195	-5,623	263,664	-0,123	-5,500	263,541	263,933	263,651	-0,282	5,500	263,541	6,866	264,907	-1,366
E196	-5,722	263,817	-0,222	-5,500	263,595	263,869	263,705	-0,164	5,500	263,595	6,845	264,940	-1,345
E197	-5,586	263,736	-0,085	-5,500	263,651	263,871	263,761	-0,110	5,500	263,651	6,841	264,991	-1,340
E198	-5,606	263,819	-0,107	-5,500	263,712	263,997	263,822	-0,174	5,500	263,712	6,324	264,536	-0,824
E199	-5,583	263,837	-0,083	-5,500	263,754	263,783	263,864	0,082	5,500	263,754	6,417	264,671	-0,917
E200	-5,532	263,734	0,021	-5,500	263,755	263,892	263,865	-0,026	5,500	263,755	6,463	264,718	-0,963
E201	-5,706	263,923	-0,207	-5,500	263,716	263,524	263,826	0,302	5,500	263,716	5,997	264,213	-0,497
E202	-5,546	263,682	-0,046	-5,500	263,636	263,477	263,746	0,269	5,500	263,636	6,184	264,321	-0,685
E203	-5,572	263,587	-0,071	-5,500	263,516	263,461	263,626	0,165	5,500	263,516	5,774	263,333	0,183
E204	-6,025	263,880	-0,525	-5,500	263,355	263,337	263,465	0,128	5,500	263,355	5,509	263,364	-0,009
E205	-5,794	263,448	-0,295	-5,500	263,153	263,113	263,263	0,150	5,500	263,153	5,708	263,361	-0,208
E206	-5,739	263,150	-0,239	-5,500	262,911	263,323	263,021	-0,302	5,500	262,911	5,664	263,075	-0,164
E207	-6,007	263,146	-0,507	-5,500	262,639	262,841	262,749	-0,093	5,500	262,639	5,721	262,860	-0,221
E208	-6,314	263,179	-0,814	-5,500	262,365	262,529	262,475	-0,054	5,500	262,365	5,743	262,608	-0,243
E209	-6,134	262,726	-0,634	-5,500	262,092	262,252	262,202	-0,050	5,500	262,092	5,623	262,215	-0,123
E210	-5,958	262,276	-0,458	-5,500	261,818	261,942	261,928	-0,014	5,500	261,818	5,621	261,939	-0,121
E211	-5,839	261,884	-0,339	-5,500	261,545	261,710	261,655	-0,055	5,500	261,545	5,754	261,799	-0,254
E212	-5,955	261,726	-0,455	-5,500	261,271	261,292	261,381	0,089	5,500	261,271	5,643	261,414	-0,143
E213	-5,979	261,477	-0,479	-5,500	260,998	260,913	261,108	0,195	5,500	260,998	5,872	261,370	-0,372
E214	-5,858	261,083	-0,358	-5,500	260,725	260,594	260,835	0,241	5,500	260,725	6,394	261,619	-0,894
E215	-5,633	260,584	-0,133	-5,500	260,451	260,218	260,561	0,343	5,500	260,451	5,997	260,948	-0,497
E216	-5,531	260,209	-0,031	-5,500	260,178	259,966	260,288	0,322	5,500	260,178	5,779	260,457	-0,279
E217	-5,824	260,228	-0,324	-5,500	259,904	259,618	260,014	0,397	5,500	259,904	5,676	260,080	-0,176
E218	-5,909	260,039	-0,408	-5,500	259,631	259,357	259,741	0,384	5,500	259,631	5,846	259,400	0,231
E219	-5,642	259,500	-0,143	-5,500	259,357	259,052	259,467	0,415	5,500	259,357	5,718	259,576	-0,219
E220	-5,585	259,169	-0,085	-5,500	259,084	258,656	259,194	0,538	5,500	259,084	5,620	259,204	-0,120
E221	-6,174	258,361	0,450	-5,500	258,811	258,569	258,921	0,352	5,500	258,811	5,523	258,834	-0,023
E222	-6,020	258,191	0,346	-5,500	258,537	258,507	258,647	0,140	5,500	258,537	5,609	258,646	-0,109
E223	-5,967	257,953	0,311	-5,500	258,264	257,820	258,374	0,554	5,500	258,264	5,619	258,184	0,080
E224	-5,959	257,684	0,306	-5,500	257,990	257,630	258,100	0,470	5,500	257,990	6,226	257,506	0,484
E225	-5,744	257,554	0,163	-5,500	257,717	257,338	257,827	0,488	5,500	257,717	6,228	257,231	0,486
E226	-5,525	257,468	-0,025	-5,500	257,443	257,177	257,553	0,376	5,500	257,443	6,143	257,015	0,428
E227	-5,605	257,100	0,070	-5,500	257,170	256,937	257,280	0,343	5,500	257,170	6,116	256,759	0,411
E228	-5,621	256,816	0,080	-5,500	256,896	256,714	257,006	0,292	5,500	256,896	6,183	256,441	0,455
E229	-5,527	256,605	0,018	-5,500	256,623	256,575	256,733	0,158	5,500	256,623	6,093	256,228	0,395
E230	-5,551	256,412	-0,051	-5,500	256,361	256,310	256,471	0,161	5,500	256,361	5,827	256,144	0,217
E231	-5,593	256,198	-0,093	-5,500	256,105	256,009	256,215	0,206	5,500	256,105	5,713	255,962	0,143
E232	-5,515	255,838	0,010	-5,500	255,848	255,605	255,958	0,353	5,500	255,848	6,269	255,335	0,513
E233	-5,852	255,356	0,235	-5,500	255,591	255,109	255,701	0,592	5,500	255,591	6,316	255,047	0,544
E234	-5,990	255,007	0,327	-5,500	255,334	254,792	255,444	0,653	5,500	255,334	6,396	254,737	0,597
E235	-5,616	255,193	-0,115	-5,500	255,078	255,570	255,188	-0,382	5,500	255,078	5,556	255,134	-0,056
E236	-7,049	256,343	-1,549	-5,500	254,794	256,110	254,904	-1,205	5,500	254,794	6,476	255,770	-0,976
E237	-7,154	256,103	-1,653	-5,500	254,450	255,540	254,560	-0,980	5,500	254,450	6,437	255,387	-0,937
E238	-6,482	255,026	-0,982	-5,500	254,044	254,984	254,154	-0,829	5,500	254,044	6,435	254,980	-0,936
E239	-6,420	254,497	-0,920	-5,500	253,577	254,350	253,687	-0,663	5,500	253,577	6,074	254,152	-0,575



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Rodovia:

Trecho:

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Estaca + fração	Offset esquerdo			Bordo esquerdo		Cota			Bordo direito		Offset direito		
	Dist.	Cota	Cob	Dist.	Cota	Terreno	Eixo	Vermelha	Dist.	Cota	Dist.	Cota	Cob
E240	-6,138	253,687	-0,638	-5,500	253,049	253,743	253,159	-0,584	5,500	253,049	6,069	253,618	-0,569
E241	-5,868	252,828	-0,369	-5,500	252,459	252,881	252,569	-0,311	5,500	252,459	5,893	252,853	-0,394
E242	-5,842	252,150	-0,342	-5,500	251,808	252,122	251,918	-0,204	5,500	251,808	5,699	252,007	-0,199
E243	-5,574	251,047	0,049	-5,500	251,096	251,238	251,206	-0,032	5,500	251,096	5,723	251,319	-0,223
E244	-5,588	250,264	0,059	-5,500	250,323	250,266	250,433	0,166	5,500	250,323	5,596	250,419	-0,096
E245	-5,501	249,488	0,001	-5,500	249,489	249,610	249,599	-0,011	5,500	249,489	6,318	248,944	0,545
E246	-5,556	248,699	-0,056	-5,500	248,643	248,650	248,753	0,103	5,500	248,643	6,838	247,751	0,892
E247	-5,516	247,786	0,011	-5,500	247,797	247,770	247,907	0,137	5,500	247,797	6,223	247,315	0,482
E248	-6,046	246,586	0,365	-5,500	246,951	246,841	247,061	0,220	5,500	246,951	5,950	246,650	0,301
E249	-6,023	245,755	0,349	-5,500	246,104	245,913	246,214	0,301	5,500	246,104	5,928	245,819	0,285
E250	-5,962	245,042	0,308	-5,500	245,350	245,179	245,460	0,281	5,500	245,350	5,537	245,387	-0,037
E251	-6,235	244,346	0,490	-5,500	244,836	244,924	244,946	0,022	5,500	244,836	5,929	245,265	-0,429
E252	-6,363	244,004	0,576	-5,500	244,580	244,178	244,690	0,512	5,500	244,580	5,864	244,337	0,243
E253	-6,276	243,924	0,518	-5,500	244,442	244,153	244,552	0,398	5,500	244,442	5,825	244,225	0,217
E254	-6,104	243,898	0,402	-5,500	244,300	244,037	244,410	0,373	5,500	244,300	5,612	244,225	0,075
E255	-5,884	243,902	0,257	-5,500	244,159	244,194	244,269	0,075	5,500	244,159	5,797	244,456	-0,297
E256	-5,624	244,141	-0,124	-5,500	244,017	244,055	244,127	0,072	5,500	244,017	5,571	244,089	-0,072
E257	-5,711	244,087	-0,211	-5,500	243,876	244,066	243,986	-0,080	5,500	243,876	5,568	243,944	-0,068
E258	-5,953	244,155	-0,453	-5,500	243,702	244,032	243,812	-0,220	5,500	243,702	5,736	243,938	-0,236
E259	-6,659	244,130	-1,160	-5,500	242,970	244,083	243,080	-1,003	5,500	242,970	6,547	244,018	-1,048
E260	-6,078	242,219	-0,578	-5,500	241,641	242,198	241,751	-0,447	5,500	241,641	6,385	242,526	-0,885
E261	-6,001	239,380	0,333	-5,500	239,713	239,599	239,823	0,224	5,500	239,713	5,716	239,929	-0,216
E262	-6,073	237,203	0,382	-5,500	237,585	236,616	237,695	1,079	5,500	237,585	6,409	236,979	0,606
E263	-5,830	235,489	0,220	-5,500	235,709	234,573	235,819	1,246	5,500	235,709	7,563	234,333	1,376
E264	-5,516	233,848	-0,016	-5,500	233,832	233,037	233,942	0,905	5,500	233,832	7,378	232,580	1,252
E265	-5,566	231,912	0,044	-5,500	231,956	230,751	232,066	1,315	5,500	231,956	6,931	231,002	0,954
E266	-5,875	229,830	0,250	-5,500	230,080	229,363	230,190	0,827	5,500	230,080	6,781	229,225	0,855
E267	-6,525	227,520	0,683	-5,500	228,203	227,624	228,313	0,689	5,500	228,203	6,879	227,284	0,919
E268	-6,147	225,896	0,431	-5,500	226,327	225,790	226,437	0,647	5,500	226,327	6,995	225,331	0,996
E269	-5,625	224,575	-0,124	-5,500	224,451	224,515	224,561	0,045	5,500	224,451	5,802	224,249	0,202
E270	-5,759	223,757	0,173	-5,500	223,930	223,697	224,040	0,343	5,500	223,930	5,909	223,657	0,273
E271	-5,975	223,230	0,317	-5,500	223,547	223,241	223,657	0,416	5,500	223,547	5,947	223,249	0,298
E272	-6,559	222,573	0,706	-5,500	223,279	222,957	223,389	0,432	5,500	223,279	5,918	223,000	0,279
E273	-7,290	221,932	1,193	-5,500	223,125	222,371	223,235	0,864	5,500	223,125	6,003	222,790	0,335
E274	-5,573	223,085	-0,073	-5,500	223,012	223,139	223,122	-0,017	5,500	223,012	5,704	223,216	-0,204
E275	-5,906	223,488	-0,406	-5,500	223,082	223,587	223,192	-0,395	5,500	223,082	6,175	223,757	-0,675
E276	-6,150	223,716	-0,650	-5,500	223,066	223,831	223,176	-0,655	5,500	223,066	6,350	223,916	-0,850
E277	-6,165	223,619	-0,664	-5,500	222,955	223,800	223,065	-0,735	5,500	222,955	6,512	223,967	-1,012
E278	-6,664	223,911	-1,164	-5,500	222,747	223,860	222,857	-1,003	5,500	222,747	6,419	223,666	-0,919
E279	-5,994	222,937	-0,493	-5,500	222,444	223,005	222,554	-0,451	5,500	222,444	6,091	223,035	-0,591
E280	-5,755	221,874	0,170	-5,500	222,044	222,087	222,154	0,068	5,500	222,044	6,103	222,647	-0,603
E281	-6,443	220,920	0,629	-5,500	221,549	221,438	221,659	0,221	5,500	221,549	6,078	222,127	-0,578
E282	-6,188	220,528	0,458	-5,500	220,986	220,839	221,096	0,257	5,500	220,986	5,582	221,068	-0,082
E283	-5,917	220,164	0,278	-5,500	220,442	220,325	220,552	0,226	5,500	220,442	5,507	220,437	0,005
E284	-6,084	220,015	0,389	-5,500	220,404	220,137	220,514	0,378	5,500	220,404	5,852	220,169	0,235
E285	-6,083	219,978	0,389	-5,500	220,367	220,132	220,477	0,345	5,500	220,367	5,661	220,260	0,107
E286	-6,120	219,917	0,413	-5,500	220,330	219,935	220,440	0,505	5,500	220,330	5,947	220,032	0,298



**PREFEITURA DE
OERAS**
Mais trabalho, novas conquistas

PROPOSTA Nº 032661/2021

CONVÊNIO Nº 916982/2021

OBRA: PAVIMENTAÇÃO ASFÁLTICA

LOCAL: MORRO REDONDO - ZONA RURAL - OERAS

NOTA DE SERVIÇO

Rodovia:

Trecho:

Sub-trecho:

Estaca + fração	Offset esquerdo			Bordo esquerdo		Cota			Bordo direito		Offset direito		
	Dist.	Cota	Cob	Dist.	Cota	Terreno	Eixo	Vermelha	Dist.	Cota	Dist.	Cota	Cob
E287	-6,384	219,703	0,590	-5,500	220,293	219,868	220,403	0,535	5,500	220,293	5,822	220,078	0,215
E288	-6,539	219,581	0,693	-5,500	220,274	219,895	220,384	0,489	5,500	220,274	5,734	220,118	0,156
E289	-7,327	219,049	1,218	-5,500	220,267	219,569	220,377	0,808	5,500	220,267	6,330	219,714	0,553
E290	-8,512	218,252	2,008	-5,500	220,260	219,685	220,370	0,685	5,500	220,260	5,975	219,943	0,317
E291	-6,334	219,697	0,556	-5,500	220,253	219,803	220,363	0,560	5,500	220,253	6,225	219,770	0,483
E292	-6,030	219,893	0,353	-5,500	220,246	220,144	220,356	0,212	5,500	220,246	5,514	220,236	0,010
E293	-6,201	219,819	0,468	-5,500	220,287	220,321	220,397	0,075	5,500	220,287	6,140	220,927	-0,640
E294	-6,179	220,182	0,453	-5,500	220,635	220,457	220,745	0,288	5,500	220,635	5,554	220,599	0,036
E295	-5,985	220,660	0,323	-5,500	220,983	220,836	221,093	0,257	5,500	220,983	7,357	222,840	-1,857
E296	-6,430	220,658	0,621	-5,500	221,279	221,239	221,389	0,150	5,500	221,279	6,609	222,388	-1,109
E297	-5,578	221,535	-0,078	-5,500	221,457	221,893	221,567	-0,326	5,500	221,457	6,514	222,472	-1,015
E298	-5,774	221,794	-0,274	-5,500	221,520	222,182	221,630	-0,553	5,500	221,520	6,853	222,873	-1,353
E299	-6,195	222,161	-0,695	-5,500	221,466	222,458	221,576	-0,882	5,500	221,466	7,218	223,184	-1,718
E300	-6,162	221,958	-0,662	-5,500	221,296	222,077	221,406	-0,671	5,500	221,296	6,908	222,704	-1,408
E301	-6,108	221,618	-0,608	-5,500	221,010	221,331	221,120	-0,211	5,500	221,010	5,975	221,485	-0,475
E302	-5,798	220,875	-0,298	-5,500	220,577	220,872	220,687	-0,185	5,500	220,577	5,744	220,821	-0,244
E303	-5,770	219,962	0,180	-5,500	220,142	219,991	220,252	0,261	5,500	220,142	5,982	219,821	0,321
E304	-6,758	218,952	0,838	-5,500	219,790	219,219	219,900	0,682	5,500	219,790	6,054	219,421	0,369
E305	-6,968	218,546	0,978	-5,500	219,524	218,706	219,634	0,928	5,500	219,524	5,915	219,248	0,276
E306	-7,411	218,069	1,274	-5,500	219,343	218,210	219,453	1,243	5,500	219,343	6,389	218,751	0,592
E307	-7,574	217,865	1,383	-5,500	219,248	218,302	219,358	1,055	5,500	219,248	6,295	218,717	0,531
E308	-6,275	218,720	0,517	-5,500	219,237	218,844	219,347	0,503	5,500	219,237	5,946	218,940	0,297
E309	-5,626	219,228	0,084	-5,500	219,312	219,343	219,422	0,079	5,500	219,312	5,822	219,634	-0,322
E310	-5,654	219,369	0,103	-5,500	219,472	219,690	219,582	-0,108	5,500	219,472	5,900	219,872	-0,400
E311	-5,877	219,447	0,251	-5,500	219,698	219,672	219,808	0,136	5,500	219,698	5,601	219,799	-0,101
E312	-5,764	219,072	0,176	-5,500	219,248	219,377	219,358	-0,019	5,500	219,248	5,801	219,549	-0,301
E313	-5,615	218,739	0,077	-5,500	218,816	218,999	218,926	-0,073	5,500	218,816	5,900	219,217	-0,401
E314	-5,732	218,251	0,155	-5,500	218,406	218,445	218,516	0,071	5,500	218,406	5,849	218,756	-0,350
E315	-5,842	217,790	0,228	-5,500	218,018	218,049	218,128	0,079	5,500	218,018	6,326	218,844	-0,826
E316	-6,121	217,238	0,413	-5,500	217,651	217,554	217,761	0,207	5,500	217,651	7,007	219,158	-1,507
E317	-6,748	216,475	0,832	-5,500	217,307	217,294	217,417	0,123	5,500	217,307	6,303	218,110	-0,803



PROPOSTA Nº 032661/2021

CONVÊNIO Nº 916982/2021

OBRA: PAVIMENTAÇÃO ASFÁLTICA

LOCAL: MORRO REDONDO - ZONA RURAL - OEIRAS

NOTA DE SERVIÇO

Rodovia:

Trecho:

Sub-trecho:

Estaca + fração	Offset esquerdo			Bordo esquerdo			Cota			Bordo direito		Offset direito		
	Dist.	Cota	Cob	Dist.	Cota	Terreno	Eixo	Vermelha	Dist.	Cota	Dist.	Cota	Cob	
E318	-7,345	215,754	1,230	-5,500	216,984	216,268	217,094	0,826	5,500	216,984	6,117	216,573	0,411	
E319	-7,736	215,192	1,491	-5,500	216,683	216,136	216,793	0,657	5,500	216,683	6,578	217,761	-1,078	
E320	-7,805	214,867	1,536	-5,500	216,403	215,393	216,513	1,121	5,500	216,403	6,006	216,909	-0,506	
E321	-7,786	214,622	1,524	-5,500	216,146	215,215	216,256	1,041	5,500	216,146	5,502	216,145	0,001	
E322	-7,286	214,720	1,190	-5,500	215,910	215,156	216,020	0,864	5,500	215,910	5,788	215,718	0,192	
E323	-6,269	215,184	0,512	-5,500	215,696	215,178	215,806	0,628	5,500	215,696	5,618	215,814	-0,118	
E324	-5,556	215,560	-0,056	-5,500	215,504	215,240	215,614	0,374	5,500	215,504	5,796	215,800	-0,296	
E325	-6,587	214,609	0,724	-5,500	215,333	214,964	215,443	0,480	5,500	215,333	5,960	215,794	-0,461	
E326	-6,590	214,458	0,727	-5,500	215,185	215,105	215,295	0,190	5,500	215,185	5,992	215,677	-0,492	
E327	-5,893	214,796	0,262	-5,500	215,058	215,358	215,168	-0,190	5,500	215,058	6,586	216,144	-1,086	
E328	-5,572	214,904	0,049	-5,500	214,953	215,382	215,063	-0,320	5,500	214,953	6,642	216,095	-1,142	
E329	-5,508	214,877	-0,008	-5,500	214,869	214,972	214,979	0,007	5,500	214,869	8,095	217,464	-2,595	
E330	-5,598	214,743	0,065	-5,500	214,808	215,016	214,918	-0,098	5,500	214,808	7,457	216,765	-1,957	
E331	-5,905	214,622	0,270	-5,500	214,892	215,070	215,002	-0,067	5,500	214,892	6,641	216,033	-1,141	
E332	-7,398	213,634	1,265	-5,500	214,899	215,100	215,009	-0,091	5,500	214,899	6,582	215,980	-1,081	
E333	-5,802	214,962	-0,302	-5,500	214,660	215,540	214,770	-0,771	5,500	214,660	6,836	215,996	-1,336	
E334	-6,220	214,895	-0,721	-5,500	214,174	214,867	214,284	-0,583	5,500	214,174	6,186	214,860	-0,686	
E336	-6,701	212,303	0,801	-5,500	213,104	212,943	213,214	0,271	5,500	213,104	5,802	213,406	-0,302	
E337	-6,877	212,253	0,918	-5,500	213,171	212,682	213,281	0,598	5,500	213,171	5,838	212,945	0,226	
E338	-6,942	212,249	0,961	-5,500	213,210	212,767	213,320	0,553	5,500	213,210	5,543	213,181	0,029	
E339	-5,653	213,147	0,102	-5,500	213,249	213,349	213,359	0,010	5,500	213,249	5,885	213,634	-0,385	
E340	-5,966	213,356	-0,465	-5,500	212,891	213,409	213,001	-0,409	5,500	212,891	6,677	214,067	-1,176	
E341	-5,663	212,379	0,109	-5,500	212,488	212,645	212,598	-0,047	5,500	212,488	6,159	213,147	-0,659	
E342	-5,990	211,646	0,327	-5,500	211,973	212,030	212,083	0,053	5,500	211,973	5,930	212,403	-0,430	
E343	-5,598	211,053	0,065	-5,500	211,118	211,193	211,228	0,035	5,500	211,118	6,498	212,116	-0,998	
E344	-5,705	210,468	-0,205	-5,500	210,263	210,348	210,373	0,025	5,500	210,263	6,441	211,204	-0,941	
E345	-5,577	209,300	0,051	-5,500	209,351	209,663	209,461	-0,202	5,500	209,351	6,226	210,077	-0,726	
E346	-5,753	208,060	0,169	-5,500	208,229	208,465	208,339	-0,127	5,500	208,229	5,978	208,707	-0,478	
E347	-6,702	206,467	0,801	-5,500	207,268	206,575	207,378	0,803	5,500	207,268	5,635	207,403	-0,135	
E348	-7,531	205,116	1,354	-5,500	206,470	205,570	206,580	1,010	5,500	206,470	5,906	206,876	-0,406	
E349	-7,397	204,569	1,264	-5,500	205,833	205,267	205,943	0,676	5,500	205,833	5,783	206,117	-0,284	
E350	-6,977	204,375	0,985	-5,500	205,360	204,828	205,470	0,642	5,500	205,360	5,931	205,791	-0,431	
E351	-6,533	204,359	0,689	-5,500	205,048	204,795	205,158	0,362	5,500	205,048	6,088	205,636	-0,588	
E352	-5,766	205,140	-0,266	-5,500	204,874	206,368	204,984	-1,384	5,500	204,874	6,818	206,192	-1,318	
E353	-6,158	205,326	-0,658	-5,500	204,668	205,016	204,778	-0,238	5,500	204,668	6,867	206,036	-1,368	
E354	-5,896	204,837	-0,396	-5,500	204,441	204,211	204,551	0,340	5,500	204,441	5,560	204,401	0,040	
E355	-5,669	204,100	0,113	-5,500	204,213	203,774	204,323	0,549	5,500	204,213	5,848	203,981	0,232	
E356	-6,536	203,295	0,691	-5,500	203,986	203,776	204,096	0,319	5,500	203,986	5,550	203,952	0,034	
E357	-6,201	203,339	0,467	-5,500	203,806	203,905	203,916	0,012	5,500	203,806	6,380	204,686	-0,880	
E358	-5,558	203,842	-0,058	-5,500	203,784	203,828	203,894	0,066	5,500	203,784	6,764	205,047	-1,263	
E359	-5,566	203,641	0,044	-5,500	203,685	203,850	203,795	-0,056	5,500	203,685	6,236	204,420	-0,735	
E360	-5,651	203,660	-0,151	-5,500	203,509	203,977	203,619	-0,358	5,500	203,509	6,228	204,237	-0,728	
E361	-5,569	203,325	-0,069	-5,500	203,256	203,653	203,366	-0,287	5,500	203,256	6,233	203,989	-0,733	
E362	-5,912	203,338	-0,411	-5,500	202,927	203,173	203,037	-0,137	5,500	202,927	5,978	203,405	-0,478	
E363	-5,655	202,675	-0,155	-5,500	202,520	203,081	202,630	-0,450	5,500	202,520	7,143	204,163	-1,643	
E364	-5,694	202,231	-0,194	-5,500	202,037	202,384	202,147	-0,236	5,500	202,037	7,408	203,946	-1,909	
E365	-5,913	201,217	0,275	-5,500	201,492	201,725	201,602	-0,123	5,500	201,492	6,642	202,634	-1,142	
E366	-6,624	200,231	0,750	-5,500	200,981	200,127	201,091	0,963	5,500	200,981	6,053	200,612	0,369	
E367	-7,417	199,443	1,278	-5,500	200,721	199,935	200,831	0,896	5,500	200,721	5,969	200,408	0,313	
E368	-7,151	199,360	1,101	-5,500	200,461	199,727	200,571	0,844	5,500	200,461	6,008	200,122	0,339	
E369	-7,046	199,177	1,031	-5,500	200,208	199,556	200,318	0,762	5,500	200,208	5,527	200,190	0,018	
E370	-6,831	199,135	0,888	-5,500	200,023	199,779	200,133	0,354	5,500	200,023	6,246	200,769	-0,746	
E371	-6,295	199,390	0,530	-5,500	199,920	199,462	200,030	0,568	5,500	199,920	5,869	200,289	-0,369	
E372	-7,080	198,845	1,053	-5,500	199,898	199,401	200,008	0,607	5,500	199,898	5,933	199,610	0,288	
E373	-6,518	199,280	0,678	-5,500	199,958	199,440	200,068	0,628	5,500	199,958	5,912	199,684	0,274	
E374	-5,889	199,841	0,260	-5,500	200,101	199,959	200,211	0,251	5,500	200,101	5,842	200,443	-0,342	
E375	-6,109	201,011	0,406	-5,500	201,417	201,191	201,527	0,335	5,500	201,417	6,170	202,087	-0,670	
E376	-6,260	202,145	0,507	-5,500	202,652	202,477	202,762	0,285	5,500	202,652	5,509	202,661	-0,009	
E377	-5,980	203,267	0,320	-5,500	203,587	203,484	203,697	0,213	5,500	203,587	5,710	203,797	-0,210	
E378	-5,516	204,287	0,010	-5,500	204,297	204,744	204,407	-0,336	5,500	204,297	6,269	205,067	-0,770	
E379	-5,904	204,726	0,270	-5,500	204,996	205,114	205,106	-0,009	5,500	204,996	6,404	205,900	-0,904	
E379+0,860	-5,948	204,727	0,299	-5,500	205,026	205,136	205,136	0,000	5,500	205,026	6,391	205,917	-0,891	

Estéfane Oliveira Nunes

Engenheiro Civil

CREA-PI 31756

RN 1916831346