* * * LISTAGEM DOS ALINHAMENTOS - DIRETRIZ * * *

EIXO	DADO	TIPO	COMP. (m)	P.K.	M TANGÊNCIA	P TANGÊNCIA	RAIO (m)	PARÂM.	AZIMUTE	Cos/Xc/Xinf	Sen/Yc/Yinf
						LIG. LOMBADAS - RAMO					
4	1	RECTO	21,516	0,000	313 907,715	3 632 598,240			117,7362	0,9614414	-0,2750099
4	2	CIRC.	2,946	21,516	313 928,402	3 632 592,322	8,000		117,7362	313 926,202	3 632 584,631
4	3	RECTO	6,067	24,463	313 931,023	3 632 591,015			141,1806	0,7979782	-0,6026863
4				30,530	313 935,865	3 632 587,358			141,1806		
						LOMBADAS					
2	1	RECTO	0,724	0,000	313 946,438	3 632 567,221			325,1876	-0,9227476	0,3854048
2		CLOT.	12,000	0,724	313 945,769	3 632 567,500		11,593	325,1876	313 945,769	3 632 567,500
2	2	CIRC.	17,999	12,724	313 935,819	3 632 573,931	11,200		359,2923	313 944,806	3 632 580,614
2		CLOT.	12,000	30,723	313 938,453	3 632 589,838		11,593	61,6010	313 949,945	3 632 592,719
2	3	RECTO	12,422	42,723	313 949,945	3 632 592,719			95,7057	0,9977258	0,0674039
2		CLOT.	10,000	55,145	313 962,339	3 632 593,556		16,432	95,7057	313 962,339	3 632 593,556
2	4	CIRC.	13,758	65,145	313 972,241	3 632 594,842	-27,000		83,9164	313 965,492	3 632 620,985
2		CLOT.	10,000	78,903	313 984,135	3 632 601,455		16,432	51,4778	313 990,453	3 632 609,186
2	5	RECTO	2,771	88,903	313 990,453	3 632 609,186			39,6885	0,5838200	0,8118831
2				91,674	313 992,071	3 632 611,437			39,6885		
						LAMEIROS 1					
3	1	RECTO	6,330	0,000	314 109,316	3 632 753,221			276,7966	-0,9343101	-0,3564613
3		CLOT.	8,000	6,330	314 103,402	3 632 750,965		14,142	276,7966	314 103,402	3 632 750,965
3	2	CIRC.	10,718	14,330	314 095,794	3 632 748,518	25,000		286,9825	314 090,718	3 632 772,997
3		CLOT.	8,000	25,048	314 085,159	3 632 748,623		14,142	314,2754	314 077,602	3 632 751,220
3	3	RECTO	7,600	33,048	314 077,602	3 632 751,220			324,4614	-0,9270843	0,3748530
3		CLOT.	7,000	40,648	314 070,555	3 632 754,069		14,491	324,4614	314 070,555	3 632 754,069
3	4	CIRC.	9,058	47,648	314 063,973	3 632 756,437	-30,000		317,0341	314 056,041	3 632 727,505
3		CLOT.	7,000	56,706	314 055,010	3 632 757,487		14,491	297,8130	314 048,059	3 632 756,704
3	5	RECTO	2,059	63,706	314 048,059	3 632 756,704			290,3857	-0,9886181	-0,1504471

* * * LISTAGEM DOS ALINHAMENTOS - DIRETRIZ * * *

EIXO	DADO	TIPO	COMP. (m)	P.K.	M TANGÊNCIA	P TANGÊNCIA	RAIO (m)	PARÂM.	AZIMUTE	Cos/Xc/Xinf	Sen/Yc/Yinf
3				65,765	314 046,023	3 632 756,394			290,3857		
						LAMEIROS 2					
1	1	RECTO	11,679	0,000	314 081,096	3 632 686,952			60,9585	0,8177747	0,5755385
1		CLOT.	6,000	11,679	314 090,647	3 632 693,674		15,100	60,9585	314 090,647	3 632 693,674
1	2	CIRC.	7,936	17,679	314 095,460	3 632 697,254	-38,000		55,9326	314 071,207	3 632 726,508
1		CLOT.	6,000	25,615	314 100,998	3 632 702,918		15,100	42,6370	314 104,469	3 632 707,810
1	3	RECTO	12,394	31,615	314 104,469	3 632 707,810			37,6111	0,5570199	0,8304992
1				44,009	314 111,373	3 632 718,103			37,6111		

* * * LISTAGEM DOS ALINHAMENTOS - RASANTE * * *

EIXO	Via	DECLIVE (%) / (o/oo)	COMP. (m)	PARÂMETRO (kv) / (Raio)	VÉRTICE PK	VÉRTICE Z	ENTRADA CONCORD. PK	ENTRADA CONCORD. Z	SAÍDA CONCORD. PK	SAÍDA CONCORD. Z	BISSEC. (m)	DIF.DEC. (%) / (o/oo)
					LIG. LOMBADAS - RAMO							
4	Única						0,000	202,900				
4	Única	-8,129973	0,000	0,000	10,360	202,058	10,360	202,058	10,360	202,058	0,000	-0,666
4	Única	-8,795651	0,000	0,000	25,047	200,766	25,047	200,766	25,047	200,766	0,000	5,146
4	Única	-3,649952							30,529	200,566		
					LOMBADAS							
2	Única						0,000	203,860				
2	Única	-8,800000	11,105	170,000	13,836	202,642	8,283	203,131	19,388	201,791	0,091	-6,533
2	Única	-15,332557	0,000	0,000	30,211	200,132	30,211	200,132	30,211	200,132	0,000	5,253
2	Única	-10,080000	13,694	1 000,000	66,115	196,513	59,268	197,203	72,962	195,916	0,023	1,369
2	Única	-8,710649							91,673	194,286		
					LAMEIROS 1							
3	Única						0,000	161,170				
3	Única	-11,365083	0,000	0,000	10,009	160,032	10,009	160,032	10,009	160,032	0,000	-1,201
3	Única	-12,566352	0,000	0,000	21,803	158,550	21,803	158,550	21,803	158,550	0,000	1,267
3	Única	-11,299291	0,000	0,000	50,027	155,361	50,027	155,361	50,027	155,361	0,000	-0,732
3	Única	-12,031695							65,782	153,466		
					LAMEIROS 2							
1	Única						0,000	183,210				
1	Única	-11,182343	0,000	0,000	13,849	181,661	13,849	181,661	13,849	181,661	0,000	-0,052
1	Única	-11,234208	0,000	0,000	34,475	179,344	34,475	179,344	34,475	179,344	0,000	0,979
1	Única	-10,254758							43,996	178,368		