

Vertical Alignment: Rua A

Description:

Station Range: Start: 0+000,000, End: 0+940,500

PVI	Station	Grade Out (%)	Curve Length
0,00	0+000,000	-0,90%	
1,00	0+069,005	0,80%	34,000m
Vertical Curve Information:(sag curve)			
PVC Station: 0+052,005 Elevation: 33,436m			
PVI Station: 0+069,005 Elevation: 33,283m			
PVT Station: 0+086,005 Elevation: 33,419m			
Low Point: 0+070,005 Elevation: 33,355m			
Grade in(%): -0,90% Grade out(%): 0,80%			
Change(%): 1,70% K: 20,00000000000021			
Curve Length: 34,000m			
Headlight Distance:			
2,00	0+261,294	3,75%	44,250m
Vertical Curve Information:(sag curve)			
PVC Station: 0+239,169 Elevation: 34,644m			
PVI Station: 0+261,294 Elevation: 34,821m			
PVT Station: 0+283,419 Elevation: 35,651m			
Low Point: 0+239,169 Elevation: 34,644m			
Grade in(%): 0,80% Grade out(%): 3,75%			
Change(%): 2,95% K: 14,99999999999997			
Curve Length: 44,250m			
Headlight Distance: 220,233m			
3,00	0+367,363	-0,60%	65,251m
Vertical Curve Information:(crest curve)			
PVC Station: 0+334,738 Elevation: 37,575m			
PVI Station: 0+367,363 Elevation: 38,799m			
PVT Station: 0+399,989 Elevation: 38,603m			
High Point: 0+390,988 Elevation: 38,630m			
Grade in(%): 3,75% Grade out(%): -0,60%			
Change(%): 4,35% K: 15,00000000000006			
Curve Length: 65,251m			
Passing Distance: 153,929m Stopping Distance: 111,046m			
4,00	0+496,642	-2,75%	32,249m

	Vertical Curve Information:(crest curve) -----		
	PVC Station:	0+480,517	Elevation: 38,120m
	PVI Station:	0+496,642	Elevation: 38,023m
	PVT Station:	0+512,766	Elevation: 37,580m
	High Point:	0+480,517	Elevation: 38,120m
	Grade in(%):	-0,60%	Grade out(%): -2,75%
	Change(%):	2,15%	K: 15,00000000000013
	Curve Length:	32,249m	
	Passing Distance:	261,562m	Stopping Distance: 174,794m
5,00	0+575,514	3,30%	54,448m
	Vertical Curve Information:(sag curve) -----		
	PVC Station:	0+548,290	Elevation: 36,603m
	PVI Station:	0+575,514	Elevation: 35,854m
	PVT Station:	0+602,738	Elevation: 36,752m
	Low Point:	0+573,040	Elevation: 36,262m
	Grade in(%):	-2,75%	Grade out(%): 3,30%
	Change(%):	6,05%	K: 8,99999999999982
	Curve Length:	54,448m	
	Headlight Distance:	84,730m	
6,00	0+699,130	1,00%	36,788m
	Vertical Curve Information:(crest curve) -----		
	PVC Station:	0+680,736	Elevation: 39,326m
	PVI Station:	0+699,130	Elevation: 39,933m
	PVT Station:	0+717,524	Elevation: 40,117m
	High Point:	0+717,524	Elevation: 40,117m
	Grade in(%):	3,30%	Grade out(%): 1,00%
	Change(%):	2,30%	K: 15,9999999999996
	Curve Length:	36,788m	
	Passing Distance:	247,895m	Stopping Distance: 166,761m
7,00	0+747,805	-2,20%	32,005m
	Vertical Curve Information:(crest curve) -----		
	PVC Station:	0+731,802	Elevation: 40,260m
	PVI Station:	0+747,805	Elevation: 40,420m
	PVT Station:	0+763,807	Elevation: 40,068m
	High Point:	0+741,808	Elevation: 40,310m
	Grade in(%):	1,00%	Grade out(%): -2,20%

	Change(%): 3,20% K: 9,99999999999994 Curve Length: 32,005m Passing Distance: 180,879m Stopping Distance: 122,591m		
8,00	0+808,897	-0,50%	25,499m
	Vertical Curve Information:(sag curve) ----- PVC Station: 0+796,148 Elevation: 39,356m PVI Station: 0+808,897 Elevation: 39,076m PVT Station: 0+821,647 Elevation: 39,012m Low Point: 0+821,647 Elevation: 39,012m Grade in(%): -2,20% Grade out(%): -0,50% Change(%): 1,70% K: 15,00000000000017 Curve Length: 25,499m Headlight Distance:		
9,00	0+859,924	-2,35%	18,450m
	Vertical Curve Information:(crest curve) ----- PVC Station: 0+850,698 Elevation: 38,867m PVI Station: 0+859,924 Elevation: 38,821m PVT Station: 0+869,149 Elevation: 38,605m High Point: 0+850,698 Elevation: 38,867m Grade in(%): -0,50% Grade out(%): -2,35% Change(%): 1,85% K: 10,00000000000009 Curve Length: 18,450m Passing Distance: 295,225m Stopping Distance: 194,117m		
10,00	0+900,209	2,00%	34,760m
	Vertical Curve Information:(sag curve) ----- PVC Station: 0+882,828 Elevation: 38,284m PVI Station: 0+900,209 Elevation: 37,876m PVT Station: 0+917,589 Elevation: 38,224m Low Point: 0+901,589 Elevation: 38,064m Grade in(%): -2,35% Grade out(%): 2,00% Change(%): 4,35% K: 7,99999999999997 Curve Length: 34,760m Headlight Distance: 105,987m		
11,00	0+931,500	-0,00%	
12,00	0+940,500		

Vertical Alignment: Rua B

Description:

Station Range: Start: 0+000,000, End: 7+059,995

PVI	Station	Grade Out (%)	Curve Length
0,00	0+000,000	-5,27%	
1,00	0+008,998	-2,00%	
2,00	0+021,994	0,50%	
3,00	0+087,797	-0,90%	31,500m
Vertical Curve Information:(crest curve)			
PVC Station: 0+072,047 Elevation: 38,018m			
PVI Station: 0+087,797 Elevation: 38,097m			
PVT Station: 0+103,547 Elevation: 37,955m			
High Point: 0+083,297 Elevation: 38,046m			
Grade in(%): 0,50% Grade out(%): -0,90%			
Change(%): 1,40% K: 22,5000000000002			
Curve Length: 31,500m			
Passing Distance: 392,663m Stopping Distance: 259,416m			
4,00	0+296,247	0,70%	80,000m
Vertical Curve Information:(sag curve)			
PVC Station: 0+256,247 Elevation: 36,581m			
PVI Station: 0+296,247 Elevation: 36,221m			
PVT Station: 0+336,247 Elevation: 36,501m			
Low Point: 0+301,247 Elevation: 36,378m			
Grade in(%): -0,90% Grade out(%): 0,70%			
Change(%): 1,60% K: 50			
Curve Length: 80,000m			
Headlight Distance:			
5,00	0+465,278	-2,10%	140,099m
Vertical Curve Information:(crest curve)			
PVC Station: 0+395,228 Elevation: 36,913m			
PVI Station: 0+465,278 Elevation: 37,404m			
PVT Station: 0+535,327 Elevation: 35,931m			
High Point: 0+430,228 Elevation: 37,036m			
Grade in(%): 0,70% Grade out(%): -2,10%			
Change(%): 2,80% K: 49,9999999999998			
Curve Length: 140,099m			

	Passing Distance: 258,373m Stopping Distance: 191,796m		
6,00	0+655,699	-2,45%	22,621m
	Vertical Curve Information:(crest curve) ----- PVC Station: 0+644,389 Elevation: 33,639m PVI Station: 0+655,699 Elevation: 33,401m PVT Station: 0+667,010 Elevation: 33,124m High Point: 0+644,389 Elevation: 33,639m Grade in(%): -2,10% Grade out(%): -2,45% Change(%): 0,35% K: 64,9999999999639 Curve Length: 22,621m Passing Distance: 1 527,572m Stopping Distance: 991,540m		
7,00	0+790,985	-0,90%	23,250m
	Vertical Curve Information:(sag curve) ----- PVC Station: 0+779,360 Elevation: 30,371m PVI Station: 0+790,985 Elevation: 30,087m PVT Station: 0+802,610 Elevation: 29,982m Low Point: 0+802,610 Elevation: 29,982m Grade in(%): -2,45% Grade out(%): -0,90% Change(%): 1,55% K: 15,0000000000004 Curve Length: 23,250m Headlight Distance:		
8,00	0+991,343	-0,60%	19,800m
	Vertical Curve Information:(sag curve) ----- PVC Station: 0+981,443 Elevation: 28,372m PVI Station: 0+991,343 Elevation: 28,283m PVT Station: 1+001,243 Elevation: 28,224m Low Point: 1+001,243 Elevation: 28,224m Grade in(%): -0,90% Grade out(%): -0,60% Change(%): 0,30% K: 65,9999999999853 Curve Length: 19,800m Headlight Distance:		
9,00	1+238,759	0,50%	66,000m
	Vertical Curve Information:(sag curve) ----- PVC Station: 1+205,759 Elevation: 26,997m PVI Station: 1+238,759 Elevation: 26,799m PVT Station: 1+271,759 Elevation: 26,964m		

	Low Point: 1+241,759 Elevation: 26,889m Grade in(%): -0,60% Grade out(%): 0,50% Change(%): 1,10% K: 60,000000000001 Curve Length: 66,000m Headlight Distance:		
10,00	1+528,218	-0,50%	30,000m
	Vertical Curve Information:(crest curve) PVC Station: 1+513,218 Elevation: 28,171m PVI Station: 1+528,218 Elevation: 28,246m PVT Station: 1+543,218 Elevation: 28,171m High Point: 1+528,218 Elevation: 28,209m Grade in(%): 0,50% Grade out(%): -0,50% Change(%): 1,00% K: 30,000000000001 Curve Length: 30,000m Passing Distance: 542,679m Stopping Distance: 356,132m		
11,00	1+727,253	-0,95%	47,070m
	Vertical Curve Information:(crest curve) PVC Station: 1+703,718 Elevation: 27,369m PVI Station: 1+727,253 Elevation: 27,251m PVT Station: 1+750,788 Elevation: 27,027m High Point: 1+703,718 Elevation: 27,369m Grade in(%): -0,50% Grade out(%): -0,95% Change(%): 0,45% K: 104,600000000002 Curve Length: 47,070m Passing Distance: 1 196,154m Stopping Distance: 781,607m		
12,00	1+830,942	0,65%	32,000m
	Vertical Curve Information:(sag curve) PVC Station: 1+814,942 Elevation: 26,418m PVI Station: 1+830,942 Elevation: 26,266m PVT Station: 1+846,942 Elevation: 26,370m Low Point: 1+833,942 Elevation: 26,328m Grade in(%): -0,95% Grade out(%): 0,65% Change(%): 1,60% K: 19,9999999999985 Curve Length: 32,000m Headlight Distance:		
13,00	2+095,445	1,85%	33,600m

	Vertical Curve Information:(sag curve)-----		
	PVC Station:	2+078,645	Elevation: 27,876m
	PVI Station:	2+095,445	Elevation: 27,985m
	PVT Station:	2+112,245	Elevation: 28,296m
	Low Point:	2+078,645	Elevation: 27,876m
	Grade in(%):	0,65%	Grade out(%): 1,85%
	Change(%):	1,20%	K: 27,9999999999987
	Curve Length:	33,600m	
	Headlight Distance:		
14,00	2+180,510	-0,90%	55,000m
	Vertical Curve Information:(crest curve)-----		
	PVC Station:	2+153,010	Elevation: 29,050m
	PVI Station:	2+180,510	Elevation: 29,559m
	PVT Station:	2+208,010	Elevation: 29,311m
	High Point:	2+190,010	Elevation: 29,392m
	Grade in(%):	1,85%	Grade out(%): -0,90%
	Change(%):	2,75%	K: 20,0000000000001
	Curve Length:	55,000m	
	Passing Distance:	219,383m	Stopping Distance: 151,548m
15,00	2+335,777	-0,55%	22,750m
	Vertical Curve Information:(sag curve)-----		
	PVC Station:	2+324,402	Elevation: 28,264m
	PVI Station:	2+335,777	Elevation: 28,162m
	PVT Station:	2+347,152	Elevation: 28,099m
	Low Point:	2+347,152	Elevation: 28,099m
	Grade in(%):	-0,90%	Grade out(%): -0,55%
	Change(%):	0,35%	K: 64,9999999999958
	Curve Length:	22,750m	
	Headlight Distance:		
16,00	2+754,706	0,50%	36,120m
	Vertical Curve Information:(sag curve)-----		
	PVC Station:	2+736,646	Elevation: 25,957m
	PVI Station:	2+754,706	Elevation: 25,857m
	PVT Station:	2+772,766	Elevation: 25,948m
	Low Point:	2+755,566	Elevation: 25,905m
	Grade in(%):	-0,55%	Grade out(%): 0,50%

	Change(%): 1,05% K: 34,400000007093 Curve Length: 36,120m Headlight Distance:		
17,00	2+841,731	-1,00%	22,473m
	Vertical Curve Information:(crest curve) PVC Station: 2+830,494 Elevation: 26,236m PVI Station: 2+841,731 Elevation: 26,293m PVT Station: 2+852,967 Elevation: 26,180m High Point: 2+837,994 Elevation: 26,255m Grade in(%): 0,50% Grade out(%): -1,00% Change(%): 1,50% K: 15,00000000000007 Curve Length: 22,473m Passing Distance: 363,445m Stopping Distance: 238,931m		
18,00	3+676,301	1,30%	18,386m
	Vertical Curve Information:(sag curve) PVC Station: 3+667,109 Elevation: 18,054m PVI Station: 3+676,301 Elevation: 17,962m PVT Station: 3+685,494 Elevation: 18,081m Low Point: 3+675,094 Elevation: 18,014m Grade in(%): -1,00% Grade out(%): 1,30% Change(%): 2,30% K: 7,999999999999977 Curve Length: 18,386m Headlight Distance: 400,090m		
19,00	3+725,977	3,25%	19,548m
	Vertical Curve Information:(sag curve) PVC Station: 3+716,203 Elevation: 18,481m PVI Station: 3+725,977 Elevation: 18,608m PVT Station: 3+735,751 Elevation: 18,926m Low Point: 3+716,203 Elevation: 18,481m Grade in(%): 1,30% Grade out(%): 3,25% Change(%): 1,95% K: 9,999999999999972 Curve Length: 19,548m Headlight Distance: 1 047,023m		
20,00	3+778,088	-1,95%	78,072m
	Vertical Curve Information:(crest curve) PVC Station: 3+739,052 Elevation: 19,033m		

	PVI Station: 3+778,088 Elevation: 20,304m PVT Station: 3+817,124 Elevation: 19,543m High Point: 3+787,874 Elevation: 19,828m Grade in(%): 3,25% Grade out(%): -1,95% Change(%): 5,20% K: 15 Curve Length: 78,072m Passing Distance: 140,419m Stopping Distance: 104,578m		
21,00	3+893,255	-1,00%	20,425m
	Vertical Curve Information:(sag curve) PVC Station: 3+883,043 Elevation: 18,257m PVI Station: 3+893,255 Elevation: 18,058m PVT Station: 3+903,468 Elevation: 17,956m Low Point: 3+903,468 Elevation: 17,956m Grade in(%): -1,95% Grade out(%): -1,00% Change(%): 0,95% K: 21,4999999999992 Curve Length: 20,425m Headlight Distance:		
22,00	3+983,751	-0,50%	20,340m
	Vertical Curve Information:(sag curve) PVC Station: 3+973,581 Elevation: 17,255m PVI Station: 3+983,751 Elevation: 17,153m PVT Station: 3+993,921 Elevation: 17,102m Low Point: 3+993,921 Elevation: 17,102m Grade in(%): -1,00% Grade out(%): -0,50% Change(%): 0,50% K: 40,68000000000018 Curve Length: 20,340m Headlight Distance:		
23,00	4+155,114	0,75%	21,000m
	Vertical Curve Information:(sag curve) PVC Station: 4+144,614 Elevation: 16,349m PVI Station: 4+155,114 Elevation: 16,296m PVT Station: 4+165,614 Elevation: 16,375m Low Point: 4+153,014 Elevation: 16,328m Grade in(%): -0,50% Grade out(%): 0,75% Change(%): 1,25% K: 16,7999999999998 Curve Length: 21,000m		

	Headlight Distance:-----		
24,00	4+283,715	-0,95%	54,060m
	Vertical Curve Information:(crest curve)-----		
	PVC Station:	4+256,685	Elevation: 17,058m
	PVI Station:	4+283,715	Elevation: 17,261m
	PVT Station:	4+310,745	Elevation: 17,004m
	High Point:	4+280,535	Elevation: 17,147m
	Grade in(%):	0,75%	Grade out(%): -0,95%
	Change(%):	1,70%	K: 31,8
	Curve Length:	54,060m	
	Passing Distance:	337,429m	Stopping Distance: 227,696m
25,00	4+501,317	0,50%	25,230m
	Vertical Curve Information:(sag curve)-----		
	PVC Station:	4+488,702	Elevation: 15,313m
	PVI Station:	4+501,317	Elevation: 15,193m
	PVT Station:	4+513,932	Elevation: 15,257m
	Low Point:	4+505,232	Elevation: 15,235m
	Grade in(%):	-0,95%	Grade out(%): 0,50%
	Change(%):	1,45%	K: 17,400000000153
	Curve Length:	25,230m	
	Headlight Distance:		
26,00	4+631,657	-1,20%	51,070m
	Vertical Curve Information:(crest curve)-----		
	PVC Station:	4+606,122	Elevation: 15,718m
	PVI Station:	4+631,657	Elevation: 15,845m
	PVT Station:	4+657,192	Elevation: 15,538m
	High Point:	4+621,122	Elevation: 15,755m
	Grade in(%):	0,50%	Grade out(%): -1,20%
	Change(%):	1,70%	K: 30,0000000000003
	Curve Length:	51,070m	
	Passing Distance:	335,510m	Stopping Distance: 225,927m
27,00	4+783,108	0,50%	39,579m
	Vertical Curve Information:(sag curve)-----		
	PVC Station:	4+763,319	Elevation: 14,262m
	PVI Station:	4+783,108	Elevation: 14,024m
	PVT Station:	4+802,898	Elevation: 14,123m

	Low Point: 4+791,273 Elevation: 14,094m Grade in(%): -1,20% Grade out(%): 0,50% Change(%): 1,70% K: 23,2500000000004 Curve Length: 39,579m Headlight Distance:		
28,00	4+965,619	-0,50%	30,000m
	Vertical Curve Information:(crest curve) PVC Station: 4+950,619 Elevation: 14,862m PVI Station: 4+965,619 Elevation: 14,937m PVT Station: 4+980,619 Elevation: 14,862m High Point: 4+965,619 Elevation: 14,899m Grade in(%): 0,50% Grade out(%): -0,50% Change(%): 1,00% K: 29,9999999992027 Curve Length: 30,000m Passing Distance: 542,679m Stopping Distance: 356,132m		
29,00	5+160,396	0,85%	50,396m
	Vertical Curve Information:(sag curve) PVC Station: 5+135,198 Elevation: 14,089m PVI Station: 5+160,396 Elevation: 13,963m PVT Station: 5+185,594 Elevation: 14,178m Low Point: 5+153,798 Elevation: 14,042m Grade in(%): -0,50% Grade out(%): 0,85% Change(%): 1,35% K: 37,2000000000003 Curve Length: 50,396m Headlight Distance:		
30,00	5+337,686	-0,50%	25,740m
	Vertical Curve Information:(crest curve) PVC Station: 5+324,816 Elevation: 15,368m PVI Station: 5+337,686 Elevation: 15,478m PVT Station: 5+350,555 Elevation: 15,414m High Point: 5+341,055 Elevation: 15,438m Grade in(%): 0,85% Grade out(%): -0,50% Change(%): 1,35% K: 19 Curve Length: 25,740m Passing Distance: 402,379m Stopping Distance: 264,679m		
31,00	5+463,384	0,85%	45,900m

	Vertical Curve Information:(sag curve)-----		
	PVC Station:	5+440,434	Elevation: 14,965m
	PVI Station:	5+463,384	Elevation: 14,850m
	PVT Station:	5+486,334	Elevation: 15,045m
	Low Point:	5+457,434	Elevation: 14,922m
	Grade in(%):	-0,50%	Grade out(%): 0,85%
	Change(%):	1,35%	K: 34,00000000000014
	Curve Length:	45,900m	
	Headlight Distance:		
32,00	5+557,767	-0,50%	20,250m
	Vertical Curve Information:(crest curve)-----		
	PVC Station:	5+547,642	Elevation: 15,566m
	PVI Station:	5+557,767	Elevation: 15,652m
	PVT Station:	5+567,892	Elevation: 15,601m
	High Point:	5+560,392	Elevation: 15,620m
	Grade in(%):	0,85%	Grade out(%): -0,50%
	Change(%):	1,35%	K: 15,00000000000003
	Curve Length:	20,250m	
	Passing Distance:	400,998m	Stopping Distance: 262,816m
33,00	5+784,959	0,55%	50,061m
	Vertical Curve Information:(sag curve)-----		
	PVC Station:	5+759,929	Elevation: 14,641m
	PVI Station:	5+784,959	Elevation: 14,516m
	PVT Station:	5+809,989	Elevation: 14,653m
	Low Point:	5+783,829	Elevation: 14,581m
	Grade in(%):	-0,50%	Grade out(%): 0,55%
	Change(%):	1,05%	K: 47,79999999999991
	Curve Length:	50,061m	
	Headlight Distance:		
34,00	6+162,163	0,90%	19,998m
	Vertical Curve Information:(sag curve)-----		
	PVC Station:	6+152,163	Elevation: 16,526m
	PVI Station:	6+162,163	Elevation: 16,580m
	PVT Station:	6+172,162	Elevation: 16,670m
	Low Point:	6+152,163	Elevation: 16,526m
	Grade in(%):	0,55%	Grade out(%): 0,90%

	Change(%): 0,35% K: 56,6999999999881 Curve Length: 19,998m Headlight Distance:		
35,00	6+256,520	0,50%	25,200m
	Vertical Curve Information:(crest curve) PVC Station: 6+243,920 Elevation: 17,316m PVI Station: 6+256,520 Elevation: 17,430m PVT Station: 6+269,120 Elevation: 17,493m High Point: 6+269,120 Elevation: 17,493m Grade in(%): 0,90% Grade out(%): 0,50% Change(%): 0,40% K: 63,0000000002479 Curve Length: 25,200m Passing Distance: 1 331,796m Stopping Distance: 865,431m		
36,00	6+395,409	0,75%	16,774m
	Vertical Curve Information:(sag curve) PVC Station: 6+387,022 Elevation: 18,082m PVI Station: 6+395,409 Elevation: 18,124m PVT Station: 6+403,796 Elevation: 18,187m Low Point: 6+387,022 Elevation: 18,082m Grade in(%): 0,50% Grade out(%): 0,75% Change(%): 0,25% K: 66,0000000000401 Curve Length: 16,774m Headlight Distance:		
37,00	6+604,412	1,80%	20,917m
	Vertical Curve Information:(sag curve) PVC Station: 6+593,953 Elevation: 19,621m PVI Station: 6+604,412 Elevation: 19,700m PVT Station: 6+614,870 Elevation: 19,889m Low Point: 6+593,953 Elevation: 19,621m Grade in(%): 0,75% Grade out(%): 1,80% Change(%): 1,05% K: 20,0000000000063 Curve Length: 20,917m Headlight Distance:		
38,00	6+733,694	2,80%	20,400m
	Vertical Curve Information:(sag curve) PVC Station: 6+723,494 Elevation: 21,844m		

	PVI Station: 6+733,694 Elevation: 22,027m PVT Station: 6+743,894 Elevation: 22,313m Low Point: 6+723,494 Elevation: 21,844m Grade in(%): 1,80% Grade out(%): 2,80% Change(%): 1,00% K: 20,3999999999986 Curve Length: 20,400m Headlight Distance:		
39,00	6+852,591	2,20%	15,000m
	Vertical Curve Information:(crest curve) PVC Station: 6+845,091 Elevation: 25,147m PVI Station: 6+852,591 Elevation: 25,357m PVT Station: 6+860,091 Elevation: 25,522m High Point: 6+860,091 Elevation: 25,522m Grade in(%): 2,80% Grade out(%): 2,20% Change(%): 0,60% K: 24,9999999999687 Curve Length: 15,000m Passing Distance: 886,964m Stopping Distance: 576,054m		
40,00	6+945,726	1,40%	19,907m
	Vertical Curve Information:(crest curve) PVC Station: 6+935,772 Elevation: 27,187m PVI Station: 6+945,726 Elevation: 27,406m PVT Station: 6+955,679 Elevation: 27,545m High Point: 6+955,679 Elevation: 27,545m Grade in(%): 2,20% Grade out(%): 1,40% Change(%): 0,80% K: 25,0000000000004 Curve Length: 19,907m Passing Distance: 672,647m Stopping Distance: 438,370m		
41,00	7+001,111	-1,50%	43,556m
	Vertical Curve Information:(crest curve) PVC Station: 6+979,333 Elevation: 27,877m PVI Station: 7+001,111 Elevation: 28,183m PVT Station: 7+022,889 Elevation: 27,856m High Point: 7+000,389 Elevation: 28,025m Grade in(%): 1,40% Grade out(%): -1,50% Change(%): 2,90% K: 15,0000000000002 Curve Length: 43,556m		

	Passing Distance: 203,502m Stopping Distance: 139,259m		
42,00	7+031,667	-0,50%	8,000m
	Vertical Curve Information:(sag curve) ----- PVC Station: 7+027,667 Elevation: 27,785m PVI Station: 7+031,667 Elevation: 27,725m PVT Station: 7+035,667 Elevation: 27,705m Low Point: 7+035,667 Elevation: 27,705m Grade in(%): -1,50% Grade out(%): -0,50% Change(%): 1,00% K: 8,000000000000008 Curve Length: 8,000m Headlight Distance:		
43,00	7+050,995	-0,00%	
44,00	7+059,995		

Vertical Alignment: Rua C

Description:

Station Range: Start: 0+000,000, End: 1+045,688

PVI	Station	Grade Out (%)	Curve Length
0,00	0+000,000	-4,20%	
1,00	0+008,999	-2,00%	
2,00	0+045,131	-7,00%	44,998m
	Vertical Curve Information:(crest curve) ----- PVC Station: 0+022,632 Elevation: 26,978m PVI Station: 0+045,131 Elevation: 26,528m PVT Station: 0+067,630 Elevation: 24,953m High Point: 0+022,632 Elevation: 26,978m Grade in(%): -2,00% Grade out(%): -7,00% Change(%): 5,00% K: 9,000000000000003 Curve Length: 44,998m Passing Distance: 128,039m Stopping Distance: 90,728m		
3,00	0+129,620	-5,10%	28,510m
	Vertical Curve Information:(sag curve) ----- PVC Station: 0+115,365 Elevation: 21,611m PVI Station: 0+129,620 Elevation: 20,614m PVT Station: 0+143,875 Elevation: 19,887m		

	Low Point: 0+143,875 Elevation: 19,887m Grade in(%): -7,00% Grade out(%): -5,10% Change(%): 1,90% K: 15,00000000000002 Curve Length: 28,510m Headlight Distance: 1 463,712m		
4,00	0+224,859	-3,40%	40,101m
	Vertical Curve Information:(sag curve) PVC Station: 0+204,809 Elevation: 16,779m PVI Station: 0+224,859 Elevation: 15,757m PVT Station: 0+244,909 Elevation: 15,075m Low Point: 0+244,909 Elevation: 15,075m Grade in(%): -5,10% Grade out(%): -3,40% Change(%): 1,70% K: 23,59999999999999 Curve Length: 40,101m Headlight Distance:		
5,00	0+332,854	-4,60%	20,037m
	Vertical Curve Information:(crest curve) PVC Station: 0+322,835 Elevation: 12,426m PVI Station: 0+332,854 Elevation: 12,085m PVT Station: 0+342,873 Elevation: 11,624m High Point: 0+322,835 Elevation: 12,426m Grade in(%): -3,40% Grade out(%): -4,60% Change(%): 1,20% K: 16,700000002027 Curve Length: 20,037m Passing Distance: 449,808m Stopping Distance: 294,333m		
6,00	0+476,531	-0,50%	49,200m
	Vertical Curve Information:(sag curve) PVC Station: 0+451,931 Elevation: 6,607m PVI Station: 0+476,531 Elevation: 5,476m PVT Station: 0+501,131 Elevation: 5,353m Low Point: 0+501,131 Elevation: 5,353m Grade in(%): -4,60% Grade out(%): -0,50% Change(%): 4,10% K: 12,0000000003796 Curve Length: 49,200m Headlight Distance: 127,781m		
7,00	0+783,325	0,50%	20,000m

	Vertical Curve Information:(sag curve)		
	PVC Station:	0+773,325	Elevation: 3,992m
	PVI Station:	0+783,325	Elevation: 3,942m
	PVT Station:	0+793,325	Elevation: 3,992m
	Low Point:	0+783,325	Elevation: 3,967m
	Grade in(%):	-0,50%	Grade out(%): 0,50%
	Change(%):	1,00%	K: 19,999999999739
	Curve Length:	20,000m	
	Headlight Distance:		
8,00	0+932,302	-0,55%	20,044m
	Vertical Curve Information:(crest curve)		
	PVC Station:	0+922,280	Elevation: 4,637m
	PVI Station:	0+932,302	Elevation: 4,687m
	PVT Station:	0+942,324	Elevation: 4,631m
	High Point:	0+931,780	Elevation: 4,660m
	Grade in(%):	0,50%	Grade out(%): -0,55%
	Change(%):	1,05%	K: 18,999999999998
	Curve Length:	20,044m	
	Passing Distance:	510,222m	Stopping Distance: 333,390m
9,00	1+028,940	2,10%	21,278m
	Vertical Curve Information:(sag curve)		
	PVC Station:	1+018,301	Elevation: 4,210m
	PVI Station:	1+028,940	Elevation: 4,150m
	PVT Station:	1+039,580	Elevation: 4,374m
	Low Point:	1+022,741	Elevation: 4,197m
	Grade in(%):	-0,55%	Grade out(%): 2,10%
	Change(%):	2,66%	K: 7,9999999999986
	Curve Length:	21,278m	
	Headlight Distance:	249,698m	
10,00	1+045,688		

Vertical Alignment: Rotunda 1

Description:

Station Range: Start: 0+000,000, End: 0+138,230

PVI	Station	Grade Out (%)	Curve Length
0,00	0+000,000	-1,00%	

1,00	0+073,580	1,50%	29,987m
	Vertical Curve Information:(sag curve) PVC Station: 0+058,586 Elevation: 37,657m PVI Station: 0+073,580 Elevation: 37,507m PVT Station: 0+088,573 Elevation: 37,732m Low Point: 0+070,573 Elevation: 37,597m Grade in(%): -1,00% Grade out(%): 1,50% Change(%): 2,50% K: 12 Curve Length: 29,987m Headlight Distance: 315,190m		
2,00	0+128,857	-1,00%	17,533m
	Vertical Curve Information:(crest curve) PVC Station: 0+120,091 Elevation: 38,205m PVI Station: 0+128,857 Elevation: 38,336m PVT Station: 0+137,624 Elevation: 38,248m High Point: 0+130,591 Elevation: 38,283m Grade in(%): 1,50% Grade out(%): -1,00% Change(%): 2,50% K: 6,99999999999944 Curve Length: 17,533m Passing Distance: 219,444m Stopping Distance: 144,965m		
3,00	0+138,230		

Vertical Alignment: Rotunda 2

Description:

Station Range: Start: 0+000,000, End: 0+138,230

PVI	Station	Grade Out (%)	Curve Length
0,00	0+000,000	2,50%	
1,00	0+033,455	-2,50%	50,020m
	Vertical Curve Information:(crest curve) PVC Station: 0+008,445 Elevation: 27,904m PVI Station: 0+033,455 Elevation: 28,530m PVT Station: 0+058,465 Elevation: 27,905m High Point: 0+033,463 Elevation: 28,217m Grade in(%): 2,50% Grade out(%): -2,50% Change(%): 5,00% K: 9,99999999999982 Curve Length: 50,020m		

	Passing Distance: 130,503m Stopping Distance: 93,209m		
2,00	0+102,570	2,50%	24,994m
	Vertical Curve Information:(sag curve) ----- PVC Station: 0+090,073 Elevation: 27,114m PVI Station: 0+102,570 Elevation: 26,802m PVT Station: 0+115,067 Elevation: 27,114m Low Point: 0+102,574 Elevation: 26,958m Grade in(%): -2,50% Grade out(%): 2,50% Change(%): 5,00% K: 5,000000000000021 Curve Length: 24,994m Headlight Distance: 80,679m		
3,00	0+138,230		