ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100 W_SUBA S				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+336.879
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,281.894 m	101,200.672 m		
			130.175m	N 102° 30' 13"
K0+130.175	110,253.711 m	101,327.759 m		
			22.568m	N 113° 57' 46"
K0+152.689	110,244.546 m	101,348.382 m		
			5.130m	N 41° 34' 42"
K0+154.786	110,248.383 m	101,351.787 m		
			24.611m	N 160° 39' 11"
K0+174.251	110,225.162 m	101,359.940 m		
			69.084m	N 160° 39' 11"
K0+243.281	110,159.979 m	101,382.827 m		
			16.719m	N 156° 22' 43"
K0+260.000	110,144.661 m	101,389.526 m		
			16.841m	N 155° 53' 40"
K0+276.841	110,129.289 m	101,396.404 m		
			8.243m	N 155° 31' 57"
K0+285.084	110,121.785 m	101,399.818 m		
			5.025m	N 155° 20' 27"
K0+290.109	110,117.219 m	101,401.915 m		
			5.024m	N 155° 11' 45"
K0+295.133	110,112.659 m	101,404.022 m		
			14.935m	N 154° 54' 29"
K0+310.068	110,099.133 m	101,410.356 m		
			26.811m	N 154° 37' 37"
K0+336.879	110,074.909 m	101,421.845 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100 E_SUBA_ NORTE				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+506.959
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,212.638 m	101,659.826 m		
			81.543m	N 285° 42' 59"
K0+081.543	110,234.726 m	101,581.331 m		
			186.290m	N 285° 20' 15"
K0+267.833	110,284.001 m	101,401.677 m		

			11.515m	N 285° 20' 15"
K0+279.348	110,287.047 m	101,390.572 m		
			11.515m	N 340° 08' 25"
K0+287.811	110,297.877 m	101,386.660 m		
			64.779m	N 340° 08' 25"
K0+352.122	110,358.804 m	101,364.653 m		
			134.396m	N 338° 49' 11"
K0+486.518	110,484.121 m	101,316.095 m		
			6.547m	N 338° 05' 49"
K0+493.065	110,490.195 m	101,313.653 m		
			10.106m	N 337° 11' 41"
K0+503.171	110,499.511 m	101,309.736 m		
			3.788m	N 336° 25' 34"
K0+506.959	110,502.983 m	101,308.221 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100_e_w_lento				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+567.840
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,207.874 m	101,658.485 m		
			320.409m	N 285° 43' 12"
K0+320.409	110,294.683 m	101,350.060 m		
			247.438m	N 282° 54' 20"
K0+567.840	110,349.947 m	101,108.873 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100_e_w_rapido				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+485.488
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,218.163 m	101,576.728 m		
			245.050m	N 284° 32' 03"
K0+245.050	110,279.660 m	101,339.520 m		
			240.439m	N 283° 14' 55"
K0+485.488	110,334.764 m	101,105.481 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100_E_SUBA_S				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+650.422
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**

K0+000.000	110,203.109 m	101,657.144 m		
			81.449m	N 285° 43' 12"
K0+081.449	110,225.176 m	101,578.741 m		
			310.818m	N 285° 40' 08"
K0+392.267	110,309.120 m	101,279.473 m		
			418.307m	N 150° 45' 04"
K0+650.422	109,944.145 m	101,483.860 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100_W_E_LENTO				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+604.830
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110335.5066	100984.0252		
			400.956m	N 102° 15' 39"
K0+400.956	110250.3596	101375.8355		
			203.900m	N 105° 29' 12"
K0+604.830	110195.915	101572.3321		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100_W_E_RAPIDO				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+485.270
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,326.401 m	101,103.559 m		
			273.844m	N 103° 08' 15"
K0+273.844	110,264.160 m	101,370.236 m		
			211.429m	N 104° 50' 50"
K0+485.270	110,209.982 m	101,574.606 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: 100_W-SUBA_N				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+719.608
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,340.879 m	100,985.193 m		
			75.068m	N 102° 27' 17"
K0+075.068	110,324.689 m	101,058.494 m		
			433.441m	N 102° 16' 17"
K0+508.509	110,232.564 m	101,482.032 m		
			335.119m	N 328° 38' 50"
K0+656.677	110,518.749 m	101,307.668 m		
			62.931m	N 325° 46' 05"

K0+719.608	110,570.778 m	101,272.267 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: SUBA N_100 W				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+308.453
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,478.340 m	101,277.826 m		
			44.619m	N 160° 30' 37"
K0+044.619	110,436.277 m	101,292.713 m		
			141.211m	N 160° 37' 57"
K0+185.830	110,303.057 m	101,339.542 m		
			155.210m	N 282° 40' 31"
K0+308.453	110,337.114 m	101,188.115 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: SUBA N_S_mixto				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+731.398
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,618.878 m	101,207.586 m		
			112.709m	N 148° 37' 31"
K0+112.709	110,522.649 m	101,266.266 m		
			241.587m	N 160° 27' 30"
K0+353.971	110,294.978 m	101,347.075 m		
			55.339m	N 167° 46' 49"
K0+409.276	110,240.893 m	101,358.788 m		
			117.841m	N 159° 48' 47"
K0+527.071	110,130.291 m	101,399.453 m		
			204.369m	N 154° 49' 35"
K0+731.398	109,945.332 m	101,486.384 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: SUBA N_S_transmi				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+733.132
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,623.058 m	101,214.467 m		
			112.661m	N 148° 51' 10"
K0+112.661	110,526.638 m	101,272.739 m		
			242.187m	N 158° 50' 44"
K0+354.653	110,300.771 m	101,360.141 m		
			55.707m	N 173° 45' 53"

K0+410.123	110,245.394 m	101,366.192 m		
			118.001m	N 160° 33' 34"
K0+527.950	110,134.120 m	101,405.465 m		
			205.246m	N 154° 51' 41"
K0+733.132	109,948.315 m	101,492.656 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: SUBA S_N_mixto				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+734.175
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	109,956.053 m	101,508.990 m		
			93.775m	N 334° 50' 27"
K0+093.775	110,040.931 m	101,469.123 m		
			103.319m	N 335° 50' 06"
K0+197.094	110,135.196 m	101,426.828 m		
			120.979m	N 341° 17' 21"
K0+318.016	110,249.781 m	101,388.019 m		
			54.884m	N 350° 52' 49"
K0+372.820	110,303.972 m	101,379.320 m		
			225.493m	N 339° 14' 08"
K0+598.175	110,514.818 m	101,299.377 m		
			136.169m	N 329° 42' 34"
K0+734.175	110,632.397 m	101,230.695 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: SUBA S_N_transmi				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+734.907
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	109,951.516 m	101,499.340 m		
			203.563m	N 334° 24' 38"
K0+203.563	110,135.112 m	101,411.417 m		
			115.210m	N 343° 38' 04"
K0+318.547	110,245.654 m	101,378.955 m		
			55.807m	N 353° 30' 10"
K0+374.281	110,301.103 m	101,372.640 m		
			225.069m	N 339° 02' 28"
K0+599.135	110,511.281 m	101,292.134 m		
			135.944m	N 329° 28' 36"
K0+734.907	110,628.386 m	101,223.089 m		

ALINEAMIENTO HORIZONTAL

Eje Alineamiento: SUBA_N-100_E				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+458.686
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,490.645 m	101,280.002 m		
			244.913m	N 161° 11' 10"
K0+244.913	110,258.818 m	101,358.986 m		
			53.351m	N 105° 08' 15"
K0+289.636	110,244.886 m	101,410.485 m		
			169.049m	N 105° 09' 31"
K0+458.686	110,200.680 m	101,573.653 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: SUBA_S_100_E				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+332.008
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	110,042.336 m	101,472.058 m		
			93.771m	N 340° 55' 28"
K0+093.771	110,130.958 m	101,441.412 m		
			110.397m	N 340° 35' 23"
K0+204.167	110,235.080 m	101,404.724 m		
			108.322m	N 106° 12' 10"
K0+268.281	110,204.854 m	101,508.743 m		
			63.727m	N 103° 00' 11"
K0+332.008	110,190.515 m	101,570.836 m		

ALINEAMIENTO HORIZONTAL				
Eje Alineamiento: SUBA_S-100_W				
Abscisa Inicio	K0+000.00		**Abscisa Fin**	K0+609.004
Abscisa PI	**Norte**	**Este**	**Distancia**	**Rumbo**
K0+000.000	109,954.687 m	101,506.086 m		
			93.913m	N 334° 49' 07"
K0+093.913	110,039.675 m	101,466.127 m		
			195.848m	N 336° 24' 58"
K0+289.762	110,219.166 m	101,387.770 m		
			71.915m	N 330° 08' 58"
K0+361.649	110,281.540 m	101,351.975 m		
			8.802m	N 39° 31' 10"
K0+365.229	110,288.330 m	101,357.576 m		
			75.468m	N 282° 37' 22"
K0+428.313	110,304.822 m	101,283.932 m		

			75.008m	N 282° 37' 22"
K0+503.293	110,321.214 m	101,210.737 m		
			25.351m	N 282° 37' 10"
K0+528.644	110,326.753 m	101,185.998 m		
			80.359m	N 283° 12' 52"
K0+609.004	110,345.122 m	101,107.767 m		