

[illegible]

Diagrama de los tipos de cercos de seguridad en carreteras:

- CERCO DE PUAS O MALLA**: Representado por una línea horizontal con tres 'X' que indican las puestas o mallas.
- DERECHO DE VÍA**: Representado por una línea horizontal con dos 'DV' que indican los derechos de vía.
- CURVA DE NIVEL ORDINARIA**: Representado por una línea curva que indica el perfil ordinario del terreno.
- CURVA DE NIVEL MAESTRA A CADA 6 MTS**: Representado por una línea curva que indica el perfil maestro del terreno con una escala de 1000 m.

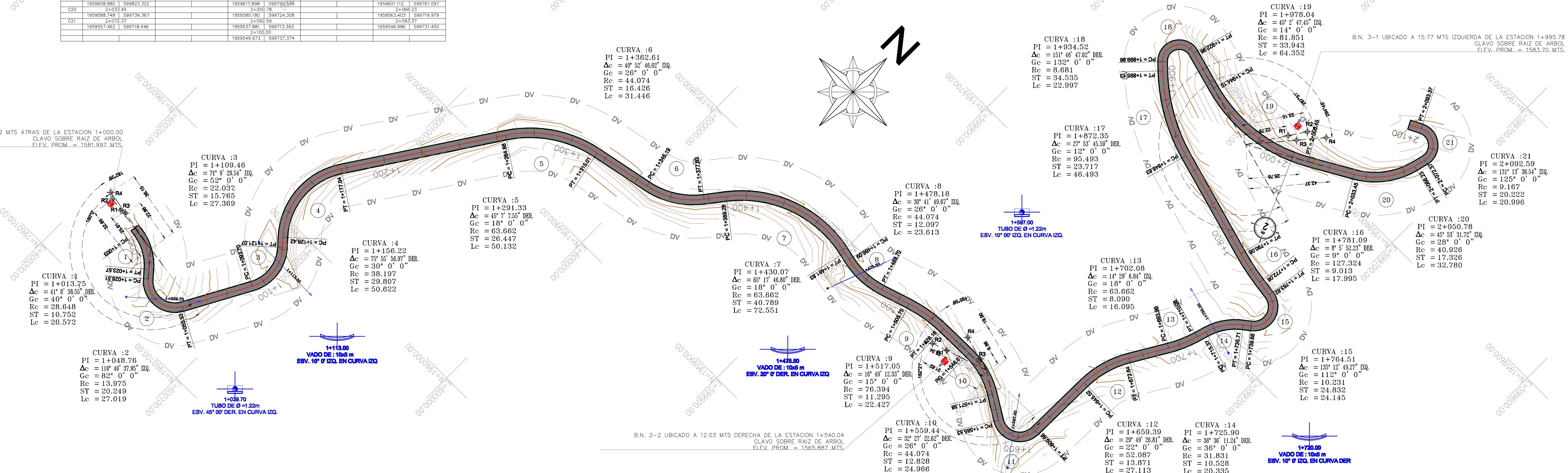
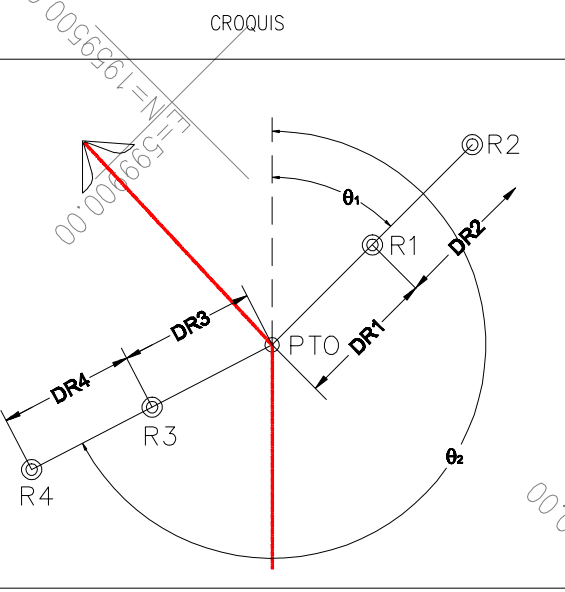
**PLANTA TOPOGRAFICA
DEL KM. 1+000.00 AL KM. 2+000.00**

PROYECTO:

DIRECCION DE PROYECTOS Y CONTROL DE CALIDAD

<p>JEFE DE LA UNIDAD DE ESTUDIOS Y PROYECTOS</p> <p>Cédula Profesional 6952384 ING. JAIRO RAMIREZ REYES</p>	<p>DIRECTOR DE PROYECTOS Y CONTROL DE CALIDAD</p> <p>Cédula Profesional 1299030 ING. ALVARO PEREZ HERNANDEZ</p>	<p>EL DIRECTOR GENERAL</p> <p>ING. MOISES SALAZAR MARTINEZ</p>
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CURVA	TE O PC		N EC		PI O PST		O E		ET O PT	
	N	E	N	E	N	E	N	E	N	E
						+600.00				
C1	+1003.00				1860060.318	1600167.974				+1003.57
1860060.318	1600167.974					+1003.57				
C2	+1008.00				1860061.868	1600157.335				+1008.00
1860061.868	1600157.335					+1008.00				
C3	1860075.789	1600149.330			1860080.171	1600133.963				
1860075.789	1600149.330					+1008.46				
C4	1860095.347	1600105.847			1860092.048	1600098.387				
1860095.347	1600105.847					+1008.22				
C5	1860085.553	1600102.652			1860086.536	1600102.788				
1860085.553	1600102.652					+1008.48				
C6	1860080.307	1600067.988			1860066.288	1600053.397				
1860080.307	1600067.988					+1002.61				
C7	1860054.801	1600096.995			1860050.300	1600090.820				
1860054.801	1600096.995					+1002.61				
C8	1860053.217	1600083.655			1860049.087	1600079.743				
1860053.217	1600083.655					+1002.61				
C9	1860070.788	1600084.841			1860050.931	1600083.052				
1860070.788	1600084.841					+1002.61				
C10	1860080.335	1600086.323			1860079.889	1600085.945				
1860080.335	1600086.323					+1002.61				
C11	1860097.423	1600085.757			1860095.225	1600082.031				
1860097.423	1600085.757					+1002.61				
C12	1860081.238	1600080.110			1860081.707	1600076.975				
1860081.238	1600080.110					+1002.61				
C13	1860075.789	1600076.020			1860075.819	1600072.871				
1860075.789	1600076.020					+1002.61				
C14	1860072.644	1600073.874			1860074.490	1600073.745				
1860072.644	1600073.874					+1002.61				
C15	1860070.839	1600073.996			1860069.321	1600073.055				
1860070.839	1600073.996					+1002.61				
C16	1860068.975	1600071.495			1860066.978	1600070.904				
1860068.975	1600071.495					+1002.61				
C17	1860058.583	1600074.500			1860056.986	1600073.432				
1860058.583	1600074.500					+1002.61				
C18	1860064.606	1600068.400			1860061.333	1600063.291				
1860064.606	1600068.400					+1002.61				
C19	1860054.792	1600065.980			1860050.934	1600062.976				
1860054.792	1600065.980					+1002.61				
C20	1860050.867	1600053.122			1860047.808	1600048.300				
1860050.867	1600053.122					+1002.61				
C21	1860048.188	1600050.367			1860045.601	1600047.328				
1860048.188	1600050.367					+1002.61				
C22	1860057.462	1600078.446			1860053.887	1600073.335</				

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ESTACION	PUNTO	SUBSTANTE ATRAS	TANGENTE	SUBSTANTE ADELANTE	DISTANCIA	DEFLEXIONES		RUMBO	COSENO		PROYECCIONES		COORDENADAS			
						°	'		°	'	N	S	E	O	NORTE	ESTE
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.000000	0.000000	0.000000	0.000000	
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89° 00'	00.00"	0.004233	0.88654	1.983	0.0000	13.608
14000.00	14013.75	0.00	6.9045	3.8000	13.7502	38.841	48'	385.5700	N	89						