

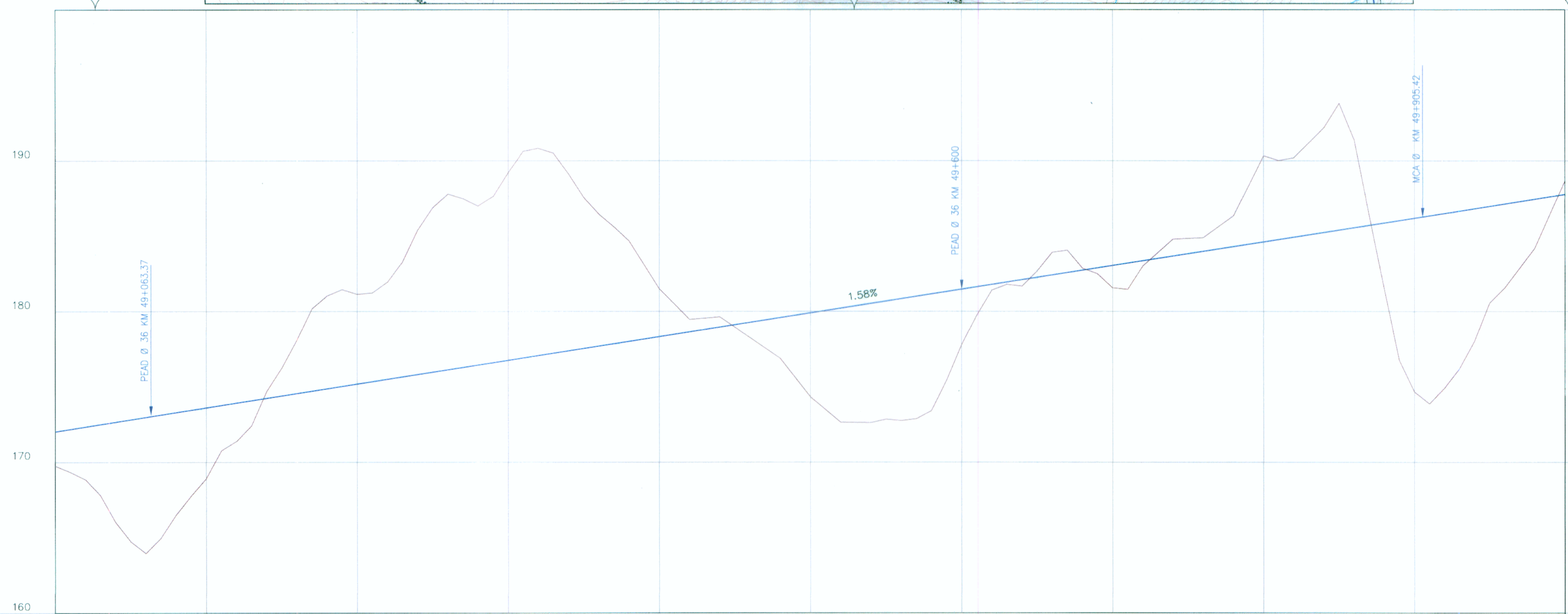
ESCALA  
H : 1/2000

BM-1095  
Cota=173.31  
Km 49+025.56  
Lado I 17.3m  
Hito de concreto c/ferro  
corrugado D=3/8"

BM-1096  
Cota=187.43  
Km 49+529.05  
Lado I 27.24m  
Hito de concreto c/ferro  
corrugado D=3/8"

BM-1097  
Cota=208.92  
Km 50+002.91  
Lado I 37.6m  
Hito de concreto c/ferro  
corrugado D=3/8"

ELEMENTOS DE CURVAS HORIZONTALES																
CNo	S	A.D.	R	T.G.	L.C.	Lap e	TS	SC ó PC	PI	CS ó PT	ST	Lap s	S.A	P %	NORTE	ESTE
164	I	89°59'52"	350.00	349.987	549.766			48+825.601	49+175.588	49+375.366			0.4	4.0	8141854.639	786582.948
165	I	0°0'0"	0.000	0.000	0.000			49+471.409	49+471.409	49+471.409			0.0	0.0	8141968.229	787014.271
166	I	61°33'37"	130.00	52.432	99.678	40.000	49+544.501	49+584.501	49+642.225	49+684.177	49+724.177	40.000	0.8	7.0	8142011.731	787179.455
167	D	151°37'55"	45.000	58.142	82.092	37.000	49+805.000	49+842.000	50+006.428	49+924.091	49+961.091	37.000	1.9	8.0	8142380.918	787269.355



ESCALA  
H : 1/2000  
V : 1/200

**LEYENDA**

- EJE
- BORDE DE VÍA (EXISTENTE)
- BORDE DE CASA
- CERCO
- BORDILLO
- CURVA NIVEL MADRE
- CURVA NIVEL SIMPLE
- POSTE ENERGIA,MADERA
- BM
- ALCANTARILLA
- PUNTE
- CANAL
- ACCESO
- LIMT.PROPIEDAD

PERFIL:

- PERFIL DE TERRENO EJE PROYECTADO
- PERFIL RASANTE EJE PROYECTADO

CC = 120m → CUNETA DE TIERRA  
 CR = 120m → CUNETA REVESTIDA  
 ZD = 120m → ZANJA DE DRENAJE

*Felix*  
 Ing. FELIX RAÚL CHIRITO SIPÁN  
 Especialista en Topografía, Trazo y Diseño Vial  
 CIP 14'53117

*Jorge*  
 Ing. Jorge Peñaranda Castellanos  
 Jefe de Estudio  
 CIP 8982

**NOTA :**  
 ESCALA MOSTRADA PARA EL FORMATO A1  
 PARA EL FORMATO A3 CONSIDERAR EL DOBLE

PENDIENTE	1.58% en 1410.0 m																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
COTA DE SUBRASANTE	172.00	172.16	172.32	172.48	172.63	172.79	172.95	173.11	173.26	173.42	173.58	173.74	173.90	174.05	174.21	174.37	174.53	174.68	174.84	175.00	175.16	175.31	175.47	175.63	175.79	175.95	176.10	176.26	176.42	176.58	176.73	176.89	177.05	177.21	177.36	177.52	177.68	177.84	178.00	178.15	178.31	178.46	178.62	178.77	178.93	189.00	189.16	189.32	189.48	189.63	189.79	189.95	190.11	190.26	190.42	190.58	190.73	190.89	191.05	191.21	191.36	191.52	191.68	191.84	192.00	192.16	192.31	192.47	192.63	192.79	192.95	193.11	193.26	193.42	193.58	193.74	193.90	194.05	194.21	194.37	194.53	194.68	194.84	195.00	195.16	195.31	195.47	195.63	195.79	195.95	196.10	196.26	196.42	196.58	196.73	196.89	197.05	197.21	197.36	197.52	197.68	197.84	198.00	198.15	198.31	198.46	198.62	198.77	198.93	199.09	199.25	199.41	199.57	199.73	199.89	200.05	200.21	200.37	200.53	200.69	200.85	201.01	201.17	201.33	201.49	201.65	201.81	201.97	202.13	202.29	202.45	202.61	202.77	202.93	203.09	203.25	203.41	203.57	203.73	203.89	204.05	204.21	204.37	204.53	204.69	204.85	205.01	205.17	205.33	205.49	205.65	205.81	205.97	206.13	206.29	206.45	206.61	206.77	206.93	207.09	207.25	207.41	207.57	207.73	207.89	208.05	208.21	208.37	208.53	208.69	208.85	209.01	209.17	209.33	209.49	209.65	209.81	209.97	210.13	210.29	210.45	210.61	210.77	210.93	211.09	211.25	211.41	211.57	211.73	211.89	212.05	212.21	212.37	212.53	212.69	212.85	213.01	213.17	213.33	213.49	213.65	213.81	213.97	214.13	214.29	214.45	214.61	214.77	214.93	215.09	215.25	215.41	215.57	215.73	215.89	216.05	216.21	216.37	216.53	216.69	216.85	217.01	217.17	217.33	217.49	217.65	217.81	217.97	218.13	218.29	218.45	218.61	218.77	218.93	219.09	219.25	219.41	219.57	219.73	219.89	220.05	220.21	220.37	220.53	220.69	220.85	221.01	221.17	221.33	221.49	221.65	221.81	221.97	222.13	222.29	222.45	222.61	222.77	222.93	223.09	223.25	223.41	223.57	223.73	223.89	224.05	224.21	224.37	224.53	224.69	224.85	225.01	225.17	225.33	225.49	225.65	225.81	225.97	226.13	226.29	226.45	226.61	226.77	226.93	227.09	227.25	227.41	227.57	227.73	227.89	228.05	228.21	228.37	228.53	228.69	228.85	229.01	229.17	229.33	229.49	229.65	229.81	229.97	230.13	230.29	230.45	230.61	230.77	230.93	231.09	231.25	231.41	231.57	231.73	231.89	232.05	232.21	232.37	232.53	232.69	232.85	233.01	233.17	233.33	233.49	233.65	233.81	233.97	234.13	234.29	234.45	234.61	234.77	234.93	235.09	235.25	235.41	235.57	235.73	235.89	236.05	236.21	236.37	236.53	236.69	236.85	237.01	237.17	237.33	237.49	237.65	237.81	237.97	238.13	238.29	238.45	238.61	238.77	238.93	239.09	239.25	239.41	239.57	239.73	239.89	240.05	240.21	240.37	240.53	240.69	240.85	241.01	241.17	241.33	241.49	241.65	241.81	241.97	242.13	242.29	242.45	242.61	242.77	242.93	243.09	243.25	243.41	243.57	243.73	243.89	244.05	244.21	244.37	244.53	244.69	244.85	245.01	245.17	245.33	245.49	245.65	245.81	245.97	246.13	246.29	246.45	246.61	246.77	246.93	247.09	247.25	247.41	247.57	247.73	247.89	248.05	248.21	248.37	248.53	248.69	248.85	249.01	249.17	249.33	249.49	249.65	249.81	249.97	250.13	250.29	250.45	250.61	250.77	250.93	251.09	251.25	251.41	251.57	251.73	251.89	252.05	252.21	252.37	252.53	252.69	252.85	253.01	253.17	253.33	253.49	253.65	253.81	253.97	254.13	254.29	254.45	254.61	254.77	254.93	255.09	255.25	255.41	255.57	255.73	255.89	256.05	256.21	256.37	256.53	256.69	256.85	257.01	257.17	257.33	257.49	257.65	257.81	257.97	258.13	258.29	258.45	258.61	258.77	258.93	259.09	259.25	259.41	259.57	259.73	259.89	260.05	260.21	260.37	260.53	260.69	260.85	261.01	261.17	261.33	261.49	261.65	261.81	261.97	262.13	262.29	262.45	262.61	262.77	262.93	263.09	263.25	263.41	263.57	263.73	263.89	264.05	264.21	264.37	264.53	264.69	264.85	265.01	265.17	265.33	265.49	265.65	265.81	265.97	266.13	266.29	266.45	266.61	266.77	266.93	267.09	267.25	267.41	267.57	267.73	267.89	268.05	268.21	268.37	268.53	268.69	268.85	269.01	269.17	269.33	269.49	269.65	269.81	269.97	270.13	270.29	270.45	270.61	270.77	270.93	271.09	271.25	271.41	271.57	271.73	271.89	272.05	272.21	272.37	272.53	272.69	272.85	273.01	273.17	273.33	273.49	273.65	273.81	273.97	274.13	274.29	274.45	274.61	274.77	274.93	275.09	275.25	275.41	275.57	275.73	275.89	276.05	276.21	276.37	276.53	276.69	276.85	277.01	277.17	277.33	277.49	277.65	277.81	277.97	278.13	278.29	278.45	278.61	278.77	278.93	279.09	279.25	279.41	279.57	279.73	279.89	280.05	280.21	280.37	280.53	280.69	280.85	281.01	281.17	281.33	281.49	281.65	281.81	281.97	282.13	282.29	282.45	282.61	282.77	282.93	283.09	283.25	283.41	283.57	283.73	283.89	284.05	284.21	284.37	284.53	284.69	284.85	285.01	285.17	285.33	285.49	285.65	285.81	285.97	286.13	286.29	286.45	286.61	286.77	286.93	287.09	287.25	287.41	287.57	287.73	287.89	288.05	288.21	288.37	288.53	288.69	288.85	289.01	289.17	289.33	289.49	289.65	289.81	289.97	290.13	290.29	290.45	290.61	290.77	290.93	291.09	291.25	291.41	291.57	291.73	291.89	292.05	292.21	292.37	292.53	292.69	292.85	293.01	293.17	293.33	293.49	293.65	293.81	293.97	294.13	294.29	294.45	294.61	294.77	294.93	295.09	295.25	295.41	295.57	295.73	295.89	296.05	296.21	296.37	296.53	296.69	296.85	297.01	297.17	297.33	297.49	297.65	297.81	297.97	298.13	298.29	298.45	298.61	298.77	298.93	299.09	299.25	299.41	299.57	299.73	299.89	300.05	300.21	300.37	300.53	300.69	300.85	301.01	301.17	301.33	301.49	301.65	301.81	301.97	302.13	302.29	302.45	302.61	302.77	302.93	303.09	303.25	303.41	303.57	303.73	303.89	304.05	304.21	304.37	304.53	304.69	304.85	305.01	305.17	305.33	305.49	305.65	305.81	305.97	306.13	306.29	306.45	306.61	306.77	306.93	307.09	307.25	307.41	307.57	307.73	307.89	308.05	308.21	308.37	308.53	308.69	308.85	309.01	309.17	309.33	309.49	309.65	309.81	309.97	310.13	310.29	310.45	310.61	310.77	310.93	311.09	311.25	311.41	311.57	311.73	311.89	312.05	312.21	312.37	312.53	312.69	312.85	313.01	313.17	313.33	313.49	313.65	313.81	313.97	314.13	314.29	314.45	314.61	314.77	314.93	315.09	315.25	315.41	315.57	315.73	315.89	316.05	316.21	316.37	316.53	316.69	316.85	317.01	317.17	317.33	317.49	317.65	317.81	317.97	318.13	318.29	318.45	318.61	318.77	318.93	319.09	319.25	319.41	319.57	319.73	319.89	320.05	320.21	320.37	320.53	320.69	320.85	321.01	321.17	321.33	321.49	321.65	321.81	321.97	322.13	322.29	322.45	322.61	322.77	322.93	323.09	323.25	323.41	323.57	323.73	323.89	324.05	324.21	324.37	324.53	324.69	324.85	325.01	325.17	325.33	325.49	325.65	325.81	325.97	326.13	326.29	326.45	326.61	326.77	326.93	327.09	327.25	327.41	327.57	327.73	327.89	328.05	328.21	328.37	328.53	328.69	328.85	329.01	329.1