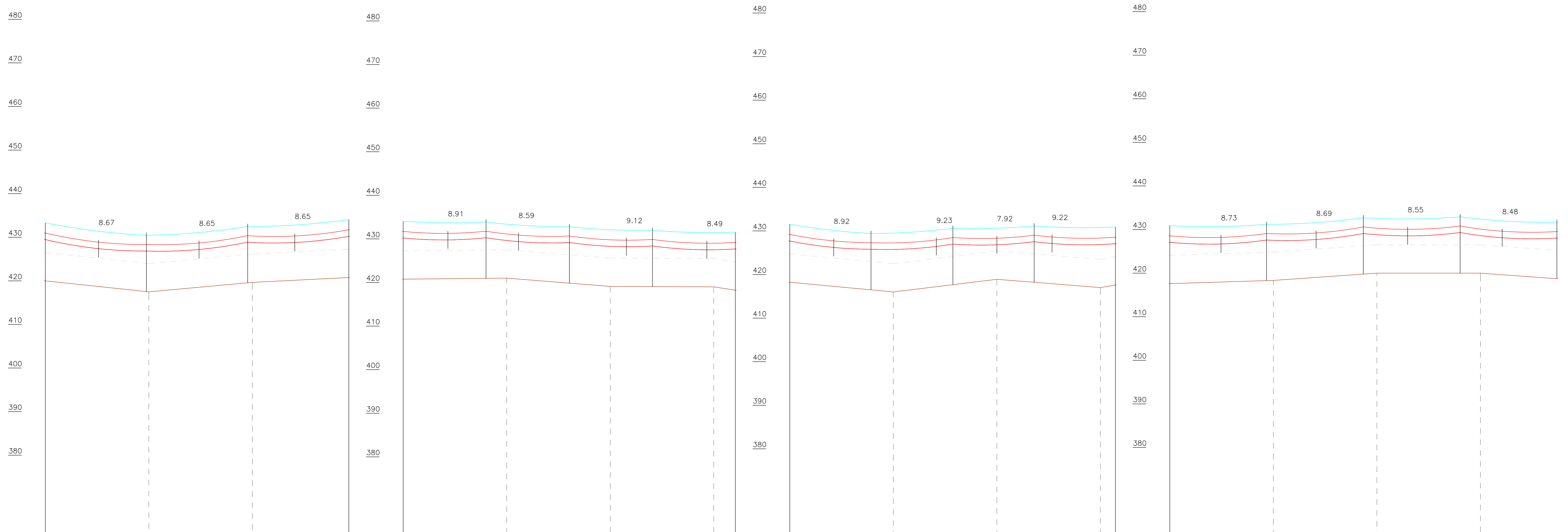
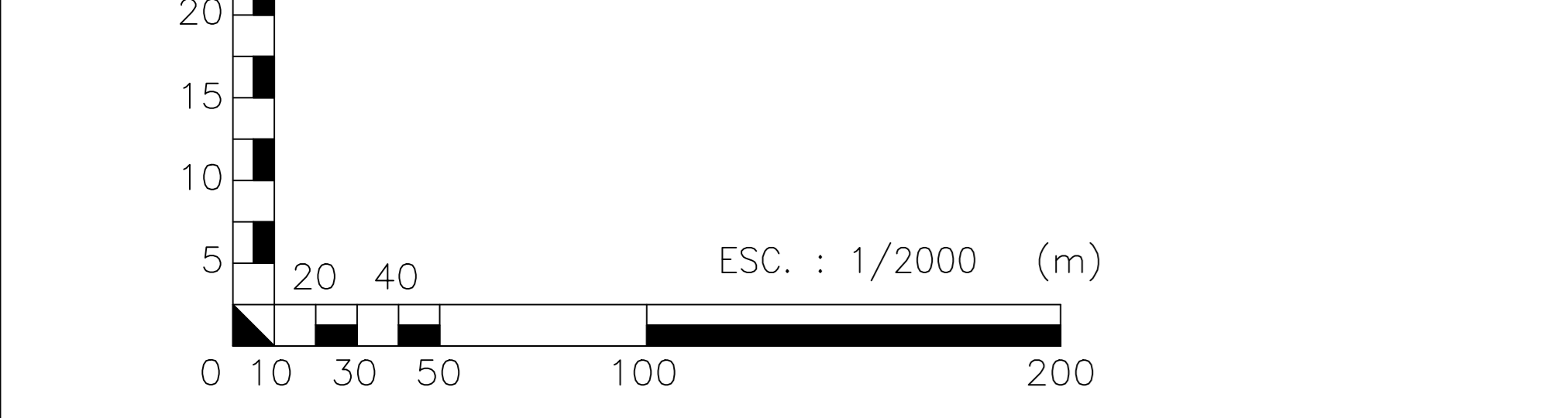
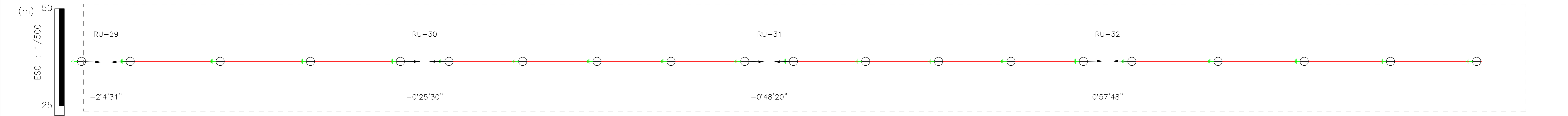


NÚMERO DE ESTRUCTURA	130	131	132	133	133	134	135	136	137	137	138	139	140	141	141	142	143	144	145
ARMADO PRINCIPAL	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE
ACUMULADA (m)	11104.16	11199.93	11289.81	11382.60	11382.60	11458.64	11535.13	11611.35	11687.39	11687.39	11761.88	11837.01	11911.59	11986.18	11986.18	12074.96	12163.74	12252.53	12341.31
VANO VIENTO (m)	85.45	92.82	92.84	84.42	84.42	76.27	76.26	76.13	75.28	75.28	74.81	74.85	74.59	74.59	81.68	81.68	88.79	88.79	88.79
VANO PESO (m)	116.66	16.86	103.87	105.58	105.58	99.06	75.20	73.78	100.69	100.69	12.05	87.62	95.27	63.14	63.14	72.18	110.73	114.22	66.45
SOPORTE	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	EM-0-30(x15/2700/3)	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)	EM-0-30(x15/2700/3)	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)	EM-0-30(x15/2700/3)	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)
RETENIDAS																			
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C
CIMENTACIÓN	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	EM-0-30(x15/2700/3)	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)	EM-0-30(x15/2700/3)	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)	EM-0-30(x15/2700/3)	3A-0-30(x15/2700/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)	ES(x15/600/3)
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)		92.76	92.88	92.79		76.04	76.49	76.22	76.04		74.49	75.13	74.58	74.59		88.77	88.79	88.79	88.79
VANO REGULADOR (m)		92.84	92.84	92.84		76.20	76.20	76.20	76.20		74.71	74.71	74.71	74.71		88.79	88.79	88.79	88.79
PARAMETRO CATENARIA (m)		1518.17	1518.17	1518.17		1518.17	1518.17	1518.17	1518.17		1518.17	1518.17	1518.17	1518.17		1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)		2577.53	2577.53	2577.53		2577.53	2577.53	2577.53	2577.53		2577.53	2577.53	2577.53	2577.53		2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR	1xRAM 95/15 ACSR
CONDUCTOR-G	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7	1xHs_Guand_25/7



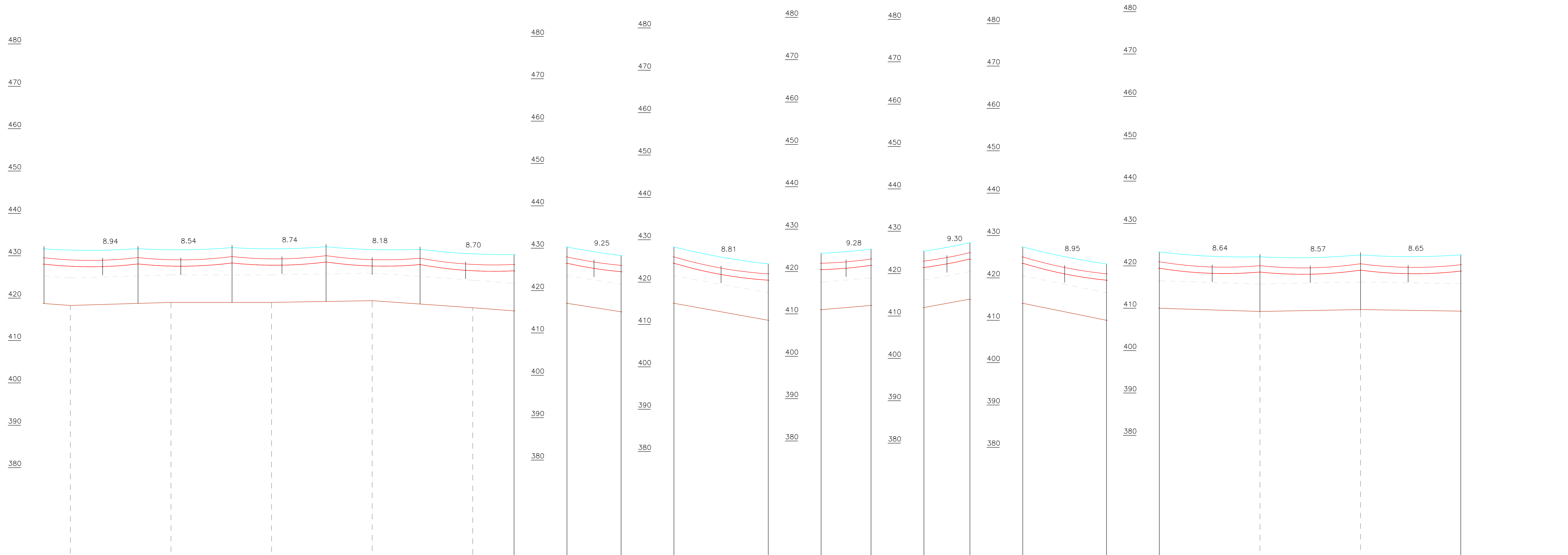
ESTACIÓN	RU-29				RU-30	RU-30				RU-31	RU-31				RU-32	RU-32			
DISTANCIA PARCIAL (m)	95.00	95.00	88.44																
DISTANCIA ACUMULADA (m)	11104.16	11199.16	11294.16	11382.60	11382.60	11477.60	11572.60	11667.39	11667.39	11761.88	11761.88	11856.37	11856.37	11950.86	11950.86	12045.35	12139.84	12139.84	12234.33
COTA DE TERRENO (m)	420.00	417.47	419.66	420.76	420.76	421.00	419.10	418.24	418.24	416.00	418.90	418.90	417.60	417.60	418.33	420.00	420.00	420.00	420.00
TIPO DE TERRENO																			
PROPIETARIO																			



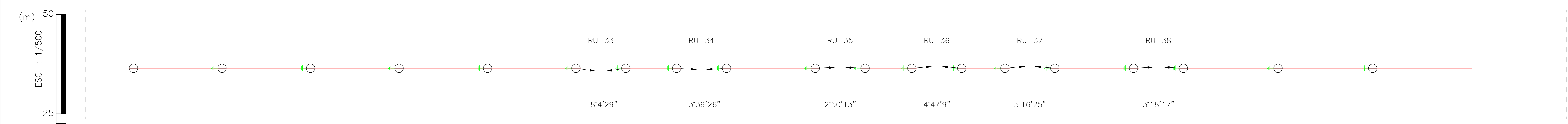
<b>COMITENTE</b> GOBIERNO DE LA PROVINCIA DE SALTA MINISTERIO DE INFRAESTRUCTURA GOBIERNO DE SALTA	<b>OBRA:</b> "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86- DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONO". CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12- E301021060191-NIS 5334376.	DIS. : Ing. MARIO ALFARO	DEPARTAMENTO: TARTAGAL
		REV. : -	PROVINCIA : SALTA
<b>RUTA N°86</b> Distribución de Estructuras PERFIL Y PLANIMETRIA : 11.10 km A 12.34 km		APR. : -	DISTRITO : TARTAGAL
		DIB. : Arq. MARIEL ALFARO	FECHA :
		ESCALA : H : 1/2000 V : 1/500	PLANO : 10/27 01-L.M.T.33 KV

REV.	DESCRIPCIÓN	DISEÑO	DIBUJO	APROBADO	FECHA

NÚMERO DE ESTRUCTURA	145	146	147	148	149	150	150	151	151	152	153	153	154	154	155	155	156	157	158	
ARMADO PRINCIPAL	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	
ACUMULADA (m)	12341.31	12430.10	12518.89	12607.67	12696.46	12785.21	12785.21	12874.02	12874.02	12962.78	12962.78	12962.78	13051.57	13051.57	13051.57	13140.36	13140.36	13229.15	13317.94	
VANO VIENTO (m)	88.79	88.79	88.79	88.79	88.77	88.89	88.89	88.74	88.74	88.03	88.03	88.03	87.25	87.25	87.25	86.49	86.49	85.74	85.01	
VANO PESO (m)	86.45	85.36	84.27	83.18	82.09	81.00	81.00	80.15	80.15	79.30	79.30	79.30	78.45	78.45	78.45	77.60	77.60	76.75	75.90	
SOPORTE	ESC(1x15/800/3)	ESC(1x15/800/3)	ESC(1x15/800/3)	ESC(1x15/800/3)	ESC(1x15/800/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/27)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ESC(1x15/800/3)	ERA-0-30(1x15/2700/3)	
RETENIDAS																				
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	
CIMENTACIÓN	ESC(1x15/800/3)	ESC(1x15/800/3)	ESC(1x15/800/3)	ESC(1x15/800/3)	ESC(1x15/800/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/27)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ERA-0-30(1x15/2700/3)	ESC(1x15/800/3)	ERA-0-30(1x15/2700/3)	
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)	88.79	88.79	88.79	88.79	88.79	88.79	88.79	88.70	88.70	88.01	88.01	88.01	87.25	87.25	87.25	86.49	86.49	85.74	85.01	
VANO REGULADOR (m)	88.79	88.79	88.79	88.79	88.79	88.79	88.79	88.70	88.70	89.01	89.01	89.01	88.25	88.25	88.25	87.49	87.49	86.74	86.01	
PARAMETRO CATENARIA (m)	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	
PARAM. CAT. - G (m)	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	
CONDUCTOR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	1xHRM 95/15 ACSR	
CONDUCTOR-G	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	1xHRM_Guante_25/7	



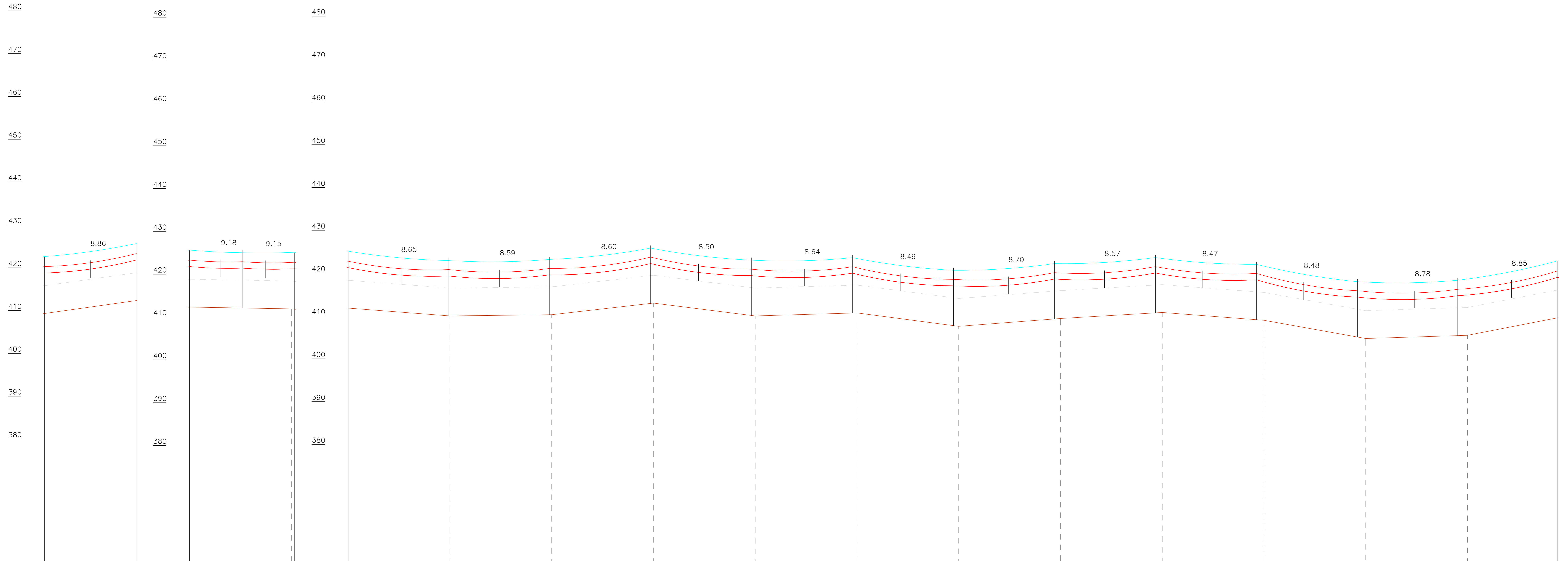
ESTACIÓN																															
DISTANCIA PARCIAL (m)		95.00		95.00		95.00		95.00		95.00		39.03	39.03	51.04		89.01		47.05	47.05	43.44	43.44	78.97	78.97	95.00	95.00	95.00	94.63	94.63	13379.35		
DISTANCIA ACUMULADA (m)	12366.18	12461.18	12556.18	12651.18	12746.18	12785.21	12785.21	12836.25	12836.25	12925.26	12925.26	12972.31	12972.31	13015.75	13015.75	13094.72	13094.72	13189.72	13189.72	13284.72	13284.72	13379.35	13379.35	13474.35	13569.35	13664.35	13759.35	13854.35	13949.35		
COTA DE TERRENO (m)	418.28	419.00	419.00	419.00	419.41	417.75	417.00	417.00	415.00	415.00	411.00	411.00	412.00	412.00	414.00	414.00	410.00	410.00	409.24	409.24	409.69	409.69	409.31	409.31	409.31	409.31	409.31	409.31	409.31		
TIPO DE TERRENO																															
PROPIETARIO																															



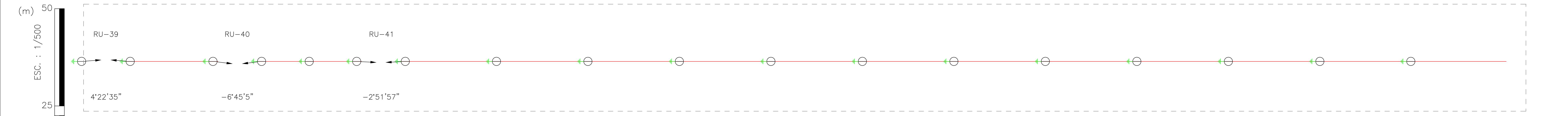
COMITENTE GOBIERNO DE LA PROVINCIA DE SALTA MINISTERIO DE INFRAESTRUCTURA. GOBIERNO DE SALTA.	OBRA: "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86- DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONO".- CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12- E301021060191-NIS 5334376.	DIS. : Ing. MARIO ALFARO	DEPARTAMENTO: TARTAGAL PROVINCIA : SALTA DISTRITO : TARTAGAL FECHA :
		REV. :-	ESCALA : H : 1/2000 V : 1/500
RUTA N°86 Distribución de Estructuras PERFIL Y PLANIMETRIA : 12.34 km A 13.38 km		APR. :-	PLANO : 11/27 01-L.M.T.33 KV
DIB. : Arq. MARIEL ALFARO			

REV.	DESCRIPCIÓN	DISÑO	DIBUJO	APROBADO	FECHA

NÚMERO DE ESTRUCTURA	158	159	159	160	161	161	162	163	164	165	166	167	168	169	170	171	172	173	
ARMADO PRINCIPAL	RA 0 A 30	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	
ACUMULADA (m)	13379.35	13464.75	13464.75	13513.84	13562.79	13562.79	13668.81	13750.95	13843.22	13939.47	14037.79	14132.79	14222.22	14316.47	14410.72	14504.97	14598.68	14692.03	
VANO VIENTO (m)	85.01	87.24	87.24	49.02	71.49	71.49	84.08	84.20	84.28	84.25	84.25	84.25	84.25	84.25	84.25	83.89	83.53	83.74	
VANO PESO (m)	32.86	132.34	132.34	41.85	98.89	98.89	58.12	56.09	182.14	38.02	150.86	21.85	96.66	142.64	133.82	23.46	28.87	180.44	
SOPORTE	3RA-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	3-30(1x15/2700/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	3A-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	
RETENIDAS																			
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	
CIMENTACIÓN	3RA-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	3-30(1x15/2700/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	3A-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	
VANO HORIZONTAL (m)	85.39		49.10	48.84			84.03	84.14	84.27	84.25	84.25	84.25	84.25	84.25	84.25	84.25	84.25	83.70	83.55
VANO REGULADOR (m)	85.39		49.02	49.02			84.15	84.15	84.15	84.15	84.15	84.15	84.15	84.15	84.15	84.15	84.15	84.15	84.15
PARAMETRO CATENARIA (m)	1518.17		1518.17	1518.17			1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)	2577.53		2577.53	2577.53			2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	
CONDUCTOR-G	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	

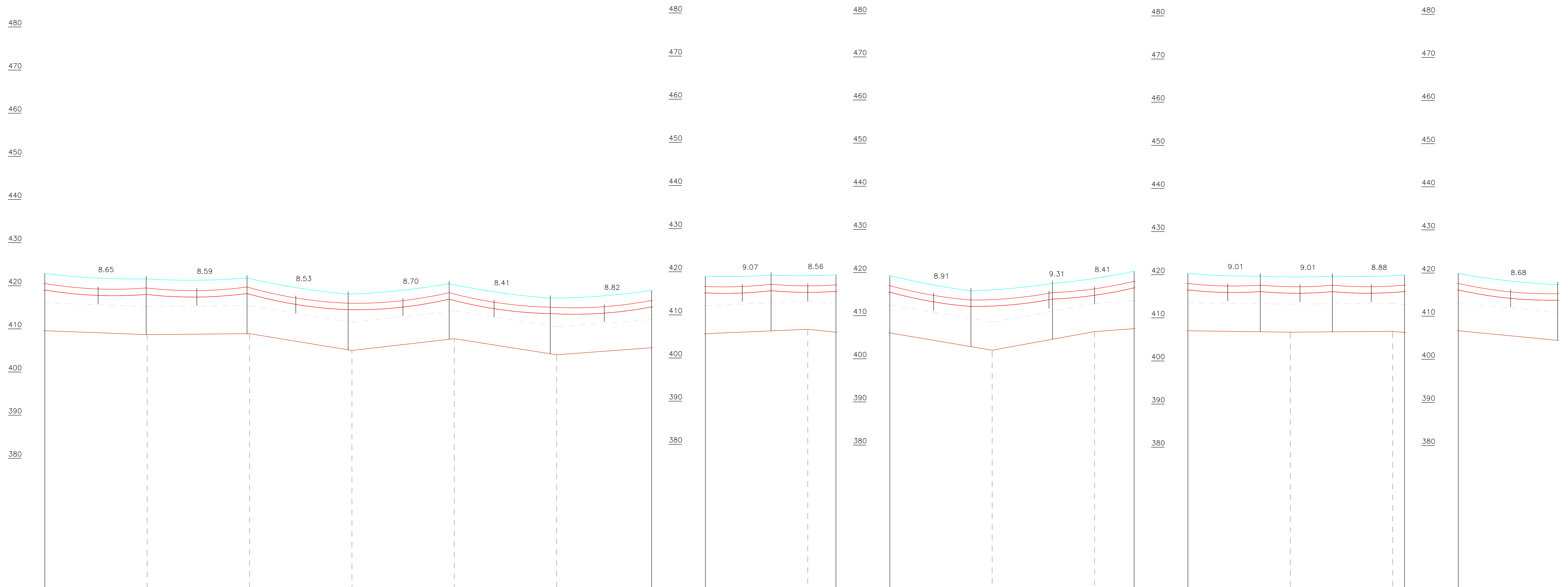


ESTACIÓN	RU-39	RU-40	RU-40	RU-41	RU-41														RU-42
DISTANCIA PARCIAL (m)		85.39		98.04															
DISTANCIA ACUMULADA (m)	13379.35	13464.75	13464.75	13562.79	13562.79	13668.81	13750.95	13843.22	13939.47	14037.79	14132.79	14222.22	14316.47	14410.72	14504.97	14598.68	14692.03	14692.03	
COTA DE TERRENO (m)	409.31	412.33	412.33	411.83	411.83	410.00	410.29	413.00	410.00	410.71	407.58	409.41	410.81	408.99	404.73	405.48	409.57	409.57	
TIPO DE TERRENO																			
PROPIETARIO																			

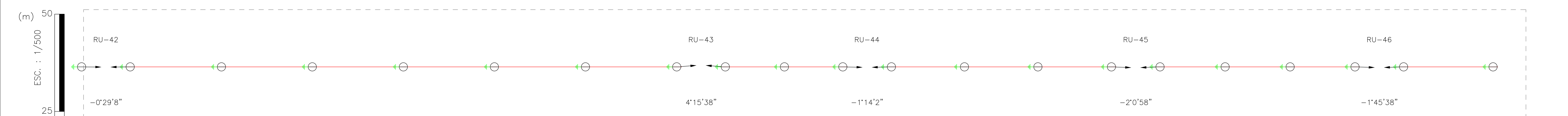


ESCALA : 1/2000 (m) 0 10 20 30 40 50 100 200	COMITENTE GOBIERNO DE LA PROVINCIA DE SALTA MINISTERIO DE INFRAESTRUCTURA GOBIERNO DE SALTA	OBRA: "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86- DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONO".- CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12- E301021060191-NIS 5334376.	DIS. : Ing. MARIO ALFARO	DEPARTAMENTO: TARTAGAL PROVINCIA : SALTA DISTRITO : TARTAGAL FECHA :	
			RUTA N°86 Distribución de Estructuras PERFIL Y PLANIMETRIA : 13.38 km A 14.69 km	APR. :- DIB. : Arq. MARIEL ALFARO	ESCALA : H : 1/2000 V : 1/500
REV.	DESCRIPCIÓN	DISEÑO	DIBUJO	APROBADO	FECHA

NÚMERO DE ESTRUCTURA	173	174	175	176	177	178	179	179	180	181	181	182	183	184	184	185	186	187	187	188
ARMADO PRINCIPAL	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE
ACUMULADA (m)	14692.03	14786.15	14879.71	14973.50	15067.28	15161.07	15255.13	15255.13	15349.07	15376.27	15376.27	15461.57	15527.25	15603.01	15603.01	15679.12	15737.05	15803.93	15803.93	15889.09
VANO VIENTO (m)	83.74	83.84	83.67	83.79	83.79	83.92	77.50	77.50	60.87	67.75	67.75	75.49	75.72	71.44	71.44	67.62	66.90	79.52	79.52	92.23
VANO PESO (m)	180.44	73.62	157.85	-6.36	187.53	14.63	88.70	88.70	77.17	130.92	130.92	-25.78	57.80	132.35	132.35	58.76	66.12	118.98	118.98	28.88
SOPORTE	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)
RETENIDAS																				
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C
CIMENTACIÓN	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	EM-0-30(1x15/2700/3)	EM-0-30(1x15/2700/3)	ES(1x15/600/3)
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)	94.12	83.58	83.58	83.79	83.79	83.79	84.08	84.08	60.84	60.20	60.20	75.30	75.67	75.76	75.76	67.11	66.83	66.87	66.87	92.17
VANO REGULADOR (m)	93.80	83.90	83.90	83.90	83.90	83.90	83.90	83.90	60.58	60.58	60.58	75.64	75.64	75.64	66.97	66.97	66.97	66.97	66.97	92.23
PARAMETRO CATENARIA (m)	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR	1xRW 95/15 ACSR
CONDUCTOR-G	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7	1xHs_Guara_25/7

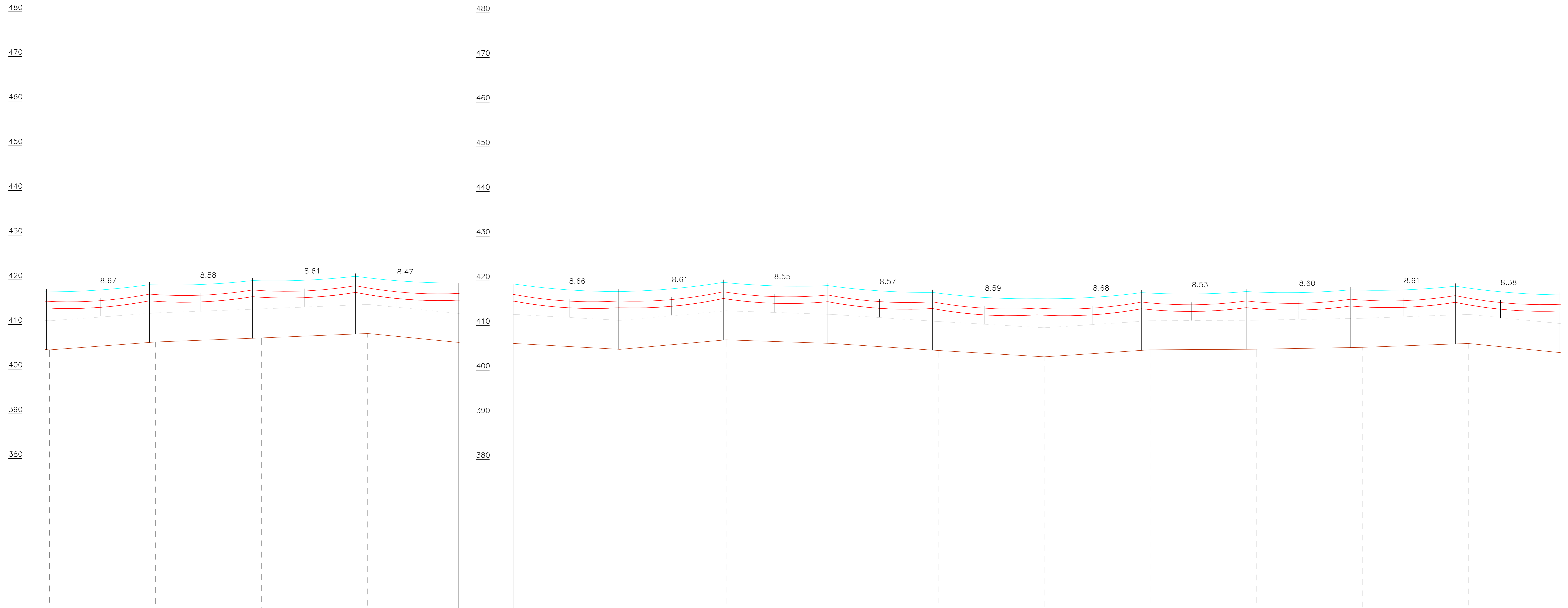


ESTACIÓN	RU-42	-	-	-	-	-	-	-	RU-43	RU-43	-	RU-44	RU-44	-	-	RU-45	RU-45	-	RU-46	RU-46	-
DISTANCIA PARCIAL (m)	95.00	95.00	95.00	95.00	95.00	95.00	88.10	88.10	95.00	95.00	121.14	95.00	95.00	36.73	73	95.00	95.00	105.92	95.00	95.00	
DISTANCIA ACUMULADA (m)	14692.03	14787.03	14882.03	14977.03	15072.03	15167.03	15255.13	15255.13	15376.27	15376.27	15471.27	15471.27	15471.27	15566.27	15603.01	15603.01	15698.01	15793.93	15889.93	15889.93	
COTA DE TERRENO (m)	409.57	408.67	408.90	405.00	407.72	404.00	405.63	405.63	406.00	406.00	402.00	402.00	402.00	406.31	407.00	407.00	406.67	406.62	406.62	404.33	
TIPO DE TERRENO																					
PROPIETARIO																					

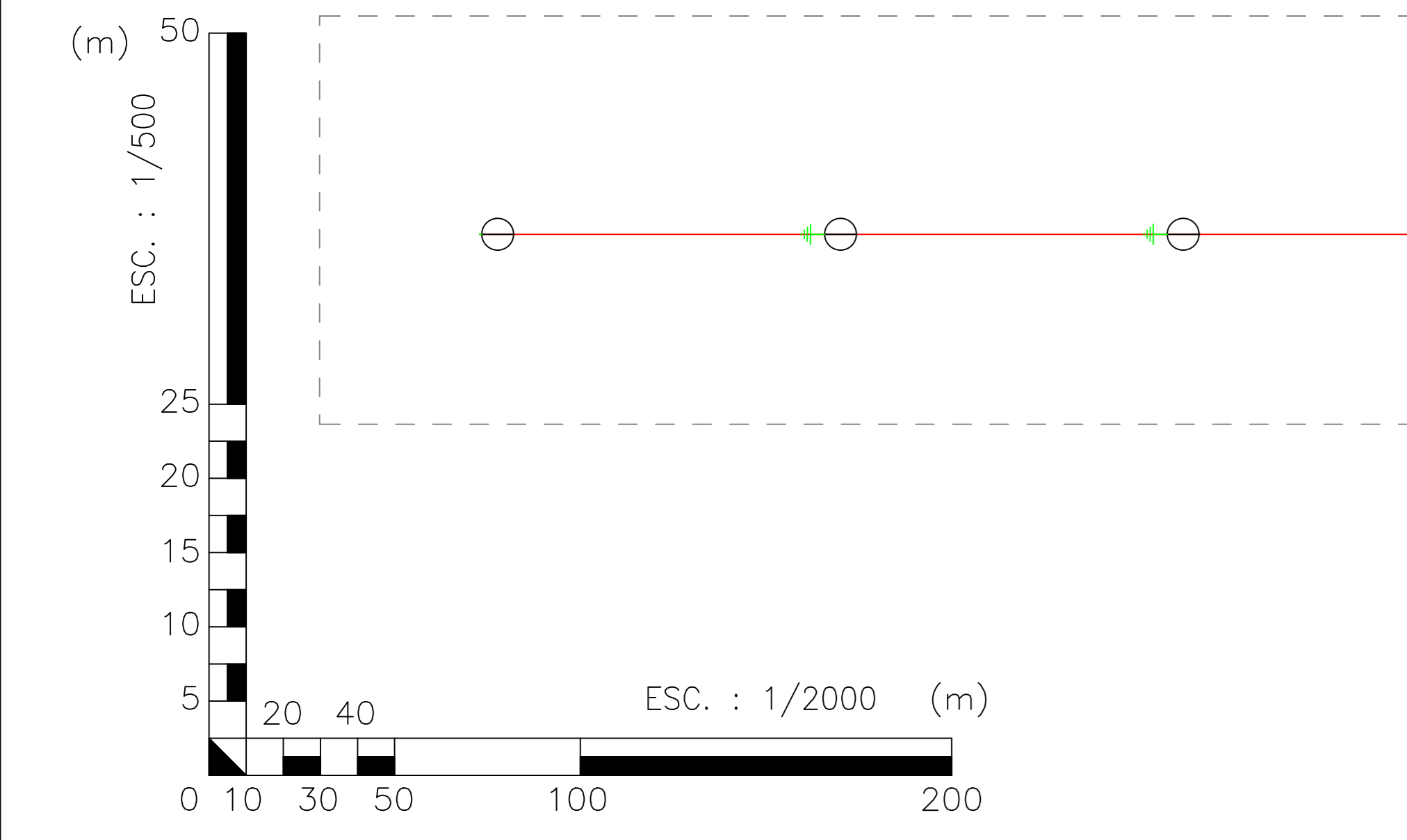


ESCALA : 1/500 ESC. : 1/2000 (m) 0 10 20 30 40 50 100 200	COMITENTE GOBIERNO DE LA PROVINCIA DE SALTA MINISTERIO DE INFRAESTRUCTURA. GOBIERNO DE SALTA.	OBRA: "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86- DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONO".- CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12- E301021060191-NIS 5334376.	DIS. : Ing. MARIO ALFARO REV. : - APR. : - DIB. : Arq. MARIEL ALFARO	DEPARTAMENTO: TARTAGAL PROVINCIA : SALTA DISTRITO : TARTAGAL FECHA :	ESCALA : H : 1/2000 V : 1/500	PLANO : 13/27 01-L.M.T.33 KV
	RUTA N°86 Distribución de Estructuras PERFIL Y PLANIMETRIA : 14.69 km A 15.90 km	REV. DESCRIPCIÓN DISEÑO DIBUJO APROBADO FECHA				

NÚMERO DE ESTRUCTURA	188	189	190	191	192	192	193	194	195	196	197	198	199	200	201	202
ARMADO PRINCIPAL	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE
ACUMULADA (m)	15898.09	15988.39	16088.69	16172.98	16264.99	16264.99	16358.91	16452.84	16544.24	16634.94	16733.65	16827.35	16921.06	17014.76	17108.46	17202.17
VANO VIENTO (m)	92.23	92.30	92.30	92.15	92.97	93.77	93.66	93.77	93.70	93.70	93.70	93.70	93.70	93.70	93.70	93.70
VANO PESO (m)	26.88	103.34	91.70	136.60	88.01	88.01	36.69	138.73	106.85	91.69	48.93	111.81	91.33	86.80	138.29	19.16
SOPORTE	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ERA-0-30(1+15/2700/3)	RA-0-30(1+15/2700/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)
RETENIDAS																
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C
CIMENTACIÓN	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ERA-0-30(1+15/2700/3)	RA-0-30(1+15/2700/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)	ES(1+15/600/3)
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)	92.30	92.30	92.30	92.30	92.01	92.01	93.92	93.92	93.70	93.70	93.70	93.70	93.70	93.70	93.70	93.70
VANO REGULADOR (m)	92.23	92.23	92.23	92.23	92.23	92.23	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69	93.69
PARAMETRO CATENARIA (m)	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR
CONDUCTOR-G	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7



ESTACIÓN	15898.93	15993.93	16088.93	16183.93	16264.99	16264.99	16359.99	16454.99	16549.99	16644.99	16739.99	16834.99	16929.99	17024.99	17119.99	17214.99
DISTANCIA PARCIAL (m)	95.00	95.00	95.00	81.07	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00
DISTANCIA ACUMULADA (m)	15898.93	15993.93	16088.93	16183.93	16264.99	16264.99	16359.99	16454.99	16549.99	16644.99	16739.99	16834.99	16929.99	17024.99	17119.99	17214.99
COTA DE TERRENO (m)	404.33	406.10	407.00	408.00	406.00	406.00	404.67	406.80	406.00	404.42	403.00	404.58	404.71	405.13	406.00	403.00
TIPO DE TERRENO																
PROPIETARIO																



RU-47

0'36'27"

REV.	DESCRIPCIÓN	DISÑO	DIBUJO	APROBADO	FECHA

**COMITENTE**  
GOBIERNO DE LA PROVINCIA DE SALTA  
MINISTERIO DE INFRAESTRUCTURA.  
GOBIERNO DE SALTA.

**OBRA:** "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86-  
DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONO".-  
CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12-  
E301021060191-NIS 5334376.

**DIS. : Ing. MARIO ALFARO**  
**REV. :-**  
**APR. :-**  
**DIB. : Arq. MARIEL ALFARO**

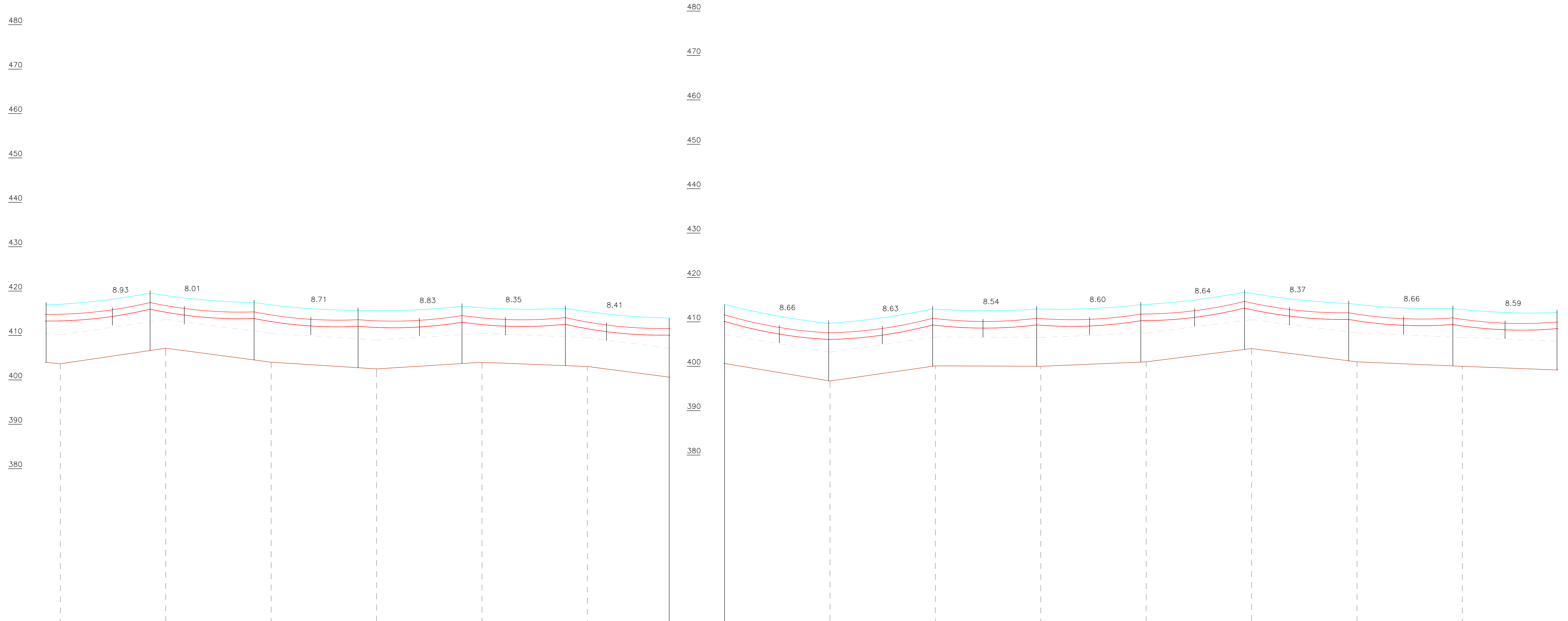
**RUTA N°86**  
**Distribución de Estructuras**  
**PERFIL Y PLANIMETRIA : 15.90 km A 17.20 km**

**DEPARTAMENTO: TARTAGAL**  
**PROVINCIA : SALTA**  
**DISTRITO : TARTAGAL**  
**FECHA :**

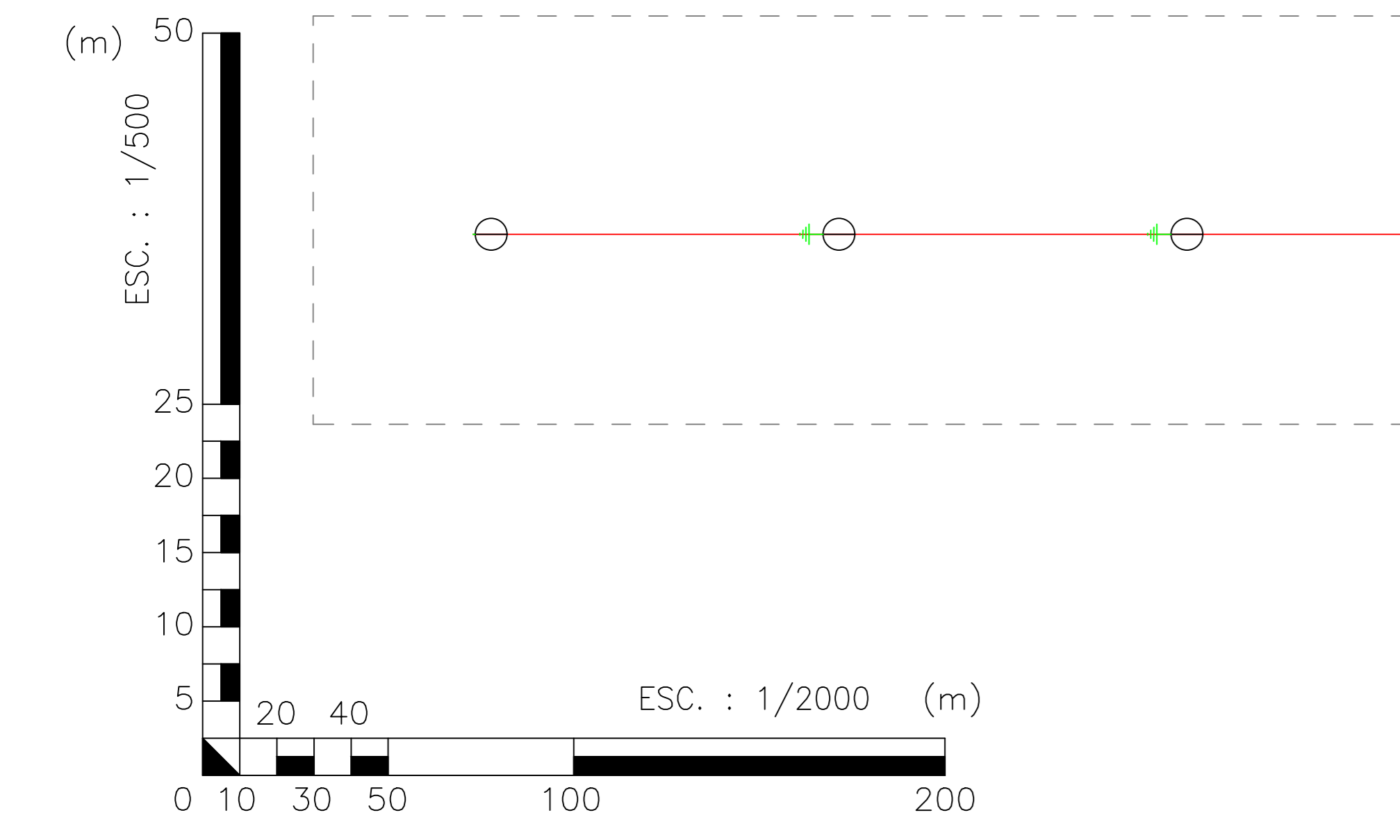
**ESCALA :**  
**H : 1/2000**  
**V : 1/500**

**PLANO : 14/27**  
**01-L.M.T.33 KV**

NÚMERO DE ESTRUCTURA PRINCIPAL	202	203	204	205	206	207	208	208	209	210	211	212	213	214	215	216
ARMADO PRINCIPAL	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE
ACUMULADA (m)	17202.17	17299.87	17399.57	17493.28	17576.98	17670.14	17763.70	17763.70	17857.51	17951.20	18044.98	18138.87	18232.37	18326.24	18420.11	18513.98
VANO VIENTO (m)	93.70	93.70	93.70	93.43	93.36	93.36	93.69	93.74	93.75	93.74	93.83	93.89	93.89	93.87	93.87	93.87
VANO PESO (m)	19.16	170.89	87.89	50.19	116.12	125.28	119.58	119.58	-24.68	146.80	78.50	62.89	181.43	76.92	90.42	95.48
SOPORTE	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	EM-D-30(1+15/2700/S)	3M-D-30(1+15/2700/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)
RETENIDAS																
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C
CIMENTACIÓN	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	EM-D-30(1+15/2700/S)	3M-D-30(1+15/2700/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)	ES(1+15/800/S)
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)	93.70	93.70	93.70	93.70	93.70	93.70	93.76	93.76	93.68	93.78	93.88	93.88	93.50	93.87	93.87	93.87
VANO REGULADOR (m)	93.69	93.69	93.69	93.69	93.69	93.69	93.76	93.76	93.76	93.76	93.76	93.76	93.76	93.76	93.76	93.76
PARAMETRO CATENARIA (m)	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR	1xRMM 95/15 ACSR
CONDUCTOR-G	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7	1xHts_Guand_25/7



ESTACIÓN	17214.99	17309.99	17404.99	17499.99	17594.99	17689.99	17763.70	17763.70	17858.70	17953.70	18048.70	18143.70	18238.70	18333.70	18428.70	18523.70
DISTANCIA PARCIAL (m)	95.00	95.00	95.00	95.00	95.00	95.00	73.70	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00
DISTANCIA ACUMULADA (m)	17214.99	17309.99	17404.99	17499.99	17594.99	17689.99	17763.70	17763.70	17858.70	17953.70	18048.70	18143.70	18238.70	18333.70	18428.70	18523.70
COTA DE TERRENO (m)	403.64	407.14	404.00	402.49	403.96	403.02	400.63	400.63	396.69	400.10	400.00	401.00	404.00	401.00	400.00	399.00
TIPO DE TERRENO																
PROPIETARIO																



REV.	DESCRIPCIÓN	DISÑO	DIBUJO	APROBADO	FECHA

COMITENTE  
GOBIERNO DE LA PROVINCIA DE SALTA  
MINISTERIO DE INFRAESTRUCTURA.  
GOBIERNO DE SALTA.

OBRA: "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86 - DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONO". - CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12 - E301021060191 - NIS 5334376.

**RUTA N°86**  
Distribución de Estructuras  
PERFIL Y PLANIMETRIA : 17.20 km A 18.51 km

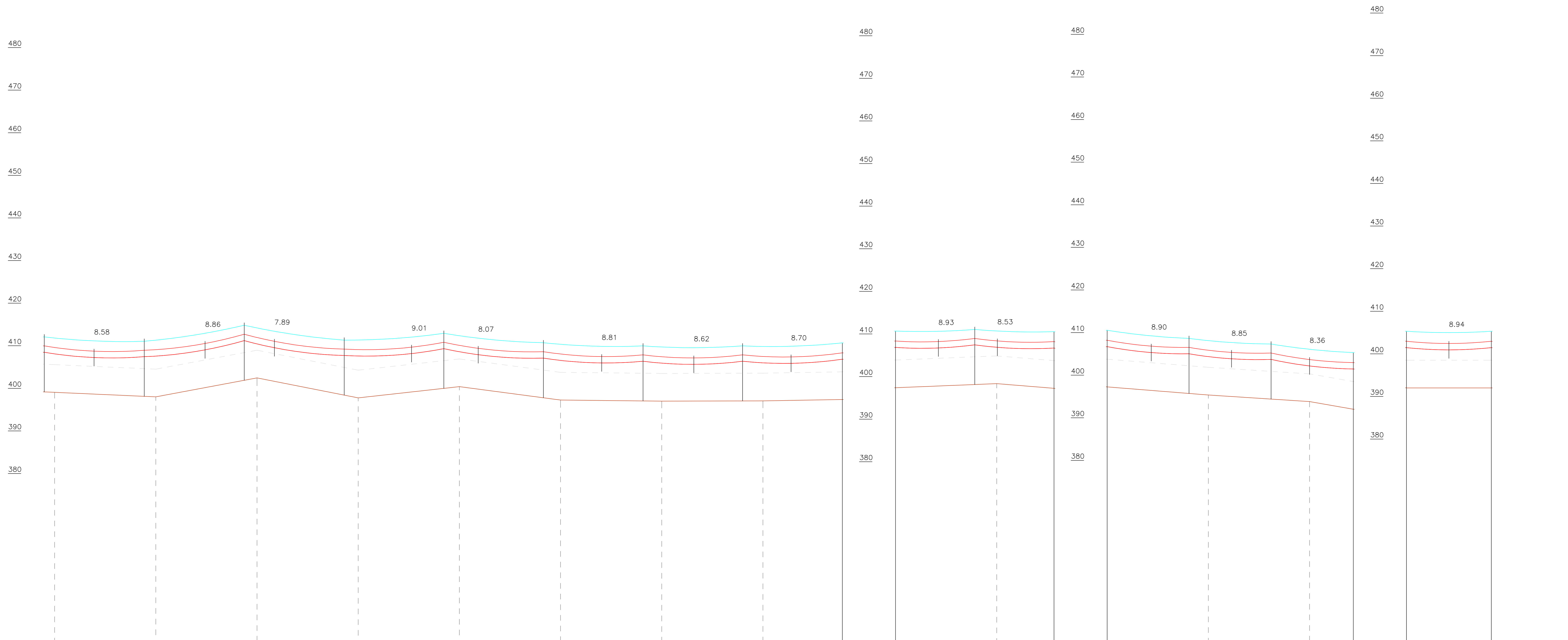
DIS. : Ing. MARIO ALFARO  
REV. : -  
APR. : -  
DIB. : Arq. MARIEL ALFARO

DEPARTAMENTO: TARTAGAL  
PROVINCIA : SALTA  
DISTRITO : TARTAGAL  
FECHA :

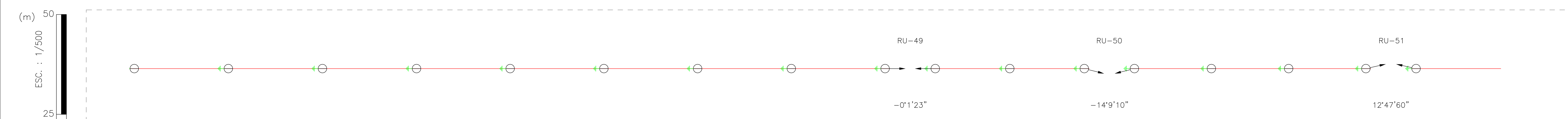
ESCALA :  
H : 1/2000  
V : 1/500

PLANO : 15/27  
01-L.M.T.33 KV

NÚMERO DE ESTRUCTURA	216	217	218	219	220	221	222	223	224	224	225	226	226	227	228	229	229	230
ARMADO PRINCIPAL	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	RA 0 A 30
ACUMULADA (m)	18513.98	18607.85	18701.72	18795.59	18889.46	18983.33	19077.20	19171.07	19264.94	19358.81	19452.68	19546.55	19640.42	19734.29	19828.16	19922.03	20015.90	20109.77
VANO VIENTO (m)	93.87	93.87	93.87	93.87	93.50	93.50	93.50	93.50	84.01	84.01	74.38	74.38	74.38	76.84	76.84	77.12	78.38	78.38
VANO PESO (m)	95.48	16.33	211.10	11.44	155.28	69.67	81.42	85.83	79.44	79.44	101.89	93.73	93.73	69.61	95.20	34.35	34.35	66.21
SOPORTE	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	EMA-0-30(1x15/2700/3)	3M-0-30(1x15/2700/3)	ES(1x15/600/3)	EMA-0-30(1x15/2700/3)	3M-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	EMA-0-30(1x15/2700/3)	3M-0-30(1x15/2700/3)	EMA-0-30(1x15/2700/3)
RETENIDAS																		
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C
CIMENTACIÓN	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	ES(1x15/600/3)	EMA-0-30(1x15/2700/3)	3M-0-30(1x15/2700/3)	ES(1x15/600/3)	EMA-0-30(1x15/2700/3)	3M-0-30(1x15/2700/3)	ES(1x15/600/3)	ES(1x15/600/3)	EMA-0-30(1x15/2700/3)	3M-0-30(1x15/2700/3)	EMA-0-30(1x15/2700/3)
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)	93.87	93.87	93.87	93.87	93.50	93.50	93.50	93.50	83.66	83.66	74.38	74.40	74.40	76.81	77.07	77.17	78.59	78.59
VANO REGULADOR (m)	93.76	93.76	93.76	93.76	93.76	93.76	93.76	93.76	83.76	83.76	74.39	74.39	74.39	77.05	77.05	77.05	78.59	78.59
PARAMETRO CATENARIA (m)	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR	1x19MM 95/15 ACSR
CONDUCTOR-G	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7	1x19mm_Guante_25/7

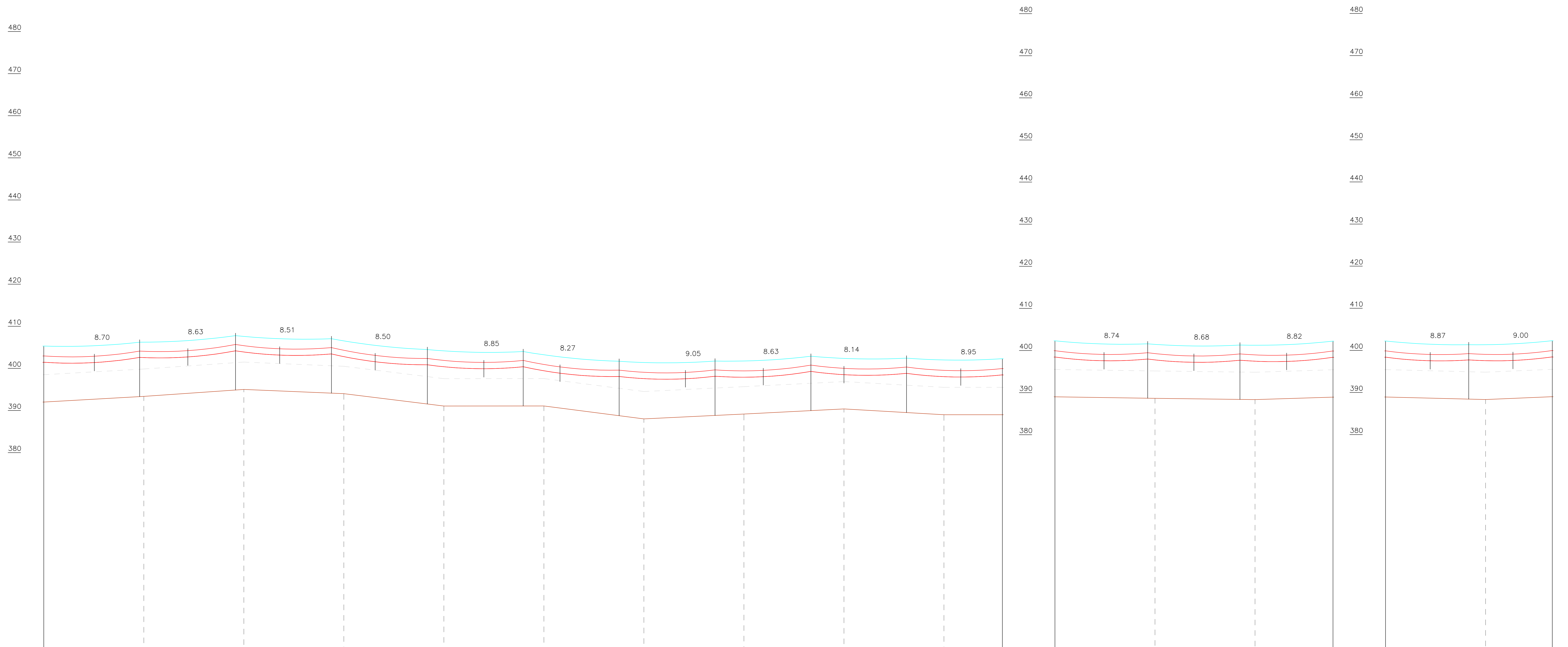


ESTACIÓN	-																		RU-49	RU-49	-	RU-50	RU-50	-	RU-51	RU-51	RU-52
DISTANCIA PARCIAL (m)	95.00																		74.58	95.00	53.76	95.00	41.05	5	79.59		
DISTANCIA ACUMULADA (m)	18523.70	18618.70	18713.70	18808.70	18903.70	18998.70	19093.70	19188.70	19283.70	19378.70	19473.70	19568.70	19663.70	19758.70	19853.70	19948.70	20043.70	20138.70	20233.70								
COTA DE TERRENO (m)	399.06	398.01	402.45	397.76	400.41	397.26	397.00	397.06	397.38	397.38	398.34	397.24	397.24	395.34	393.80	392.00	392.00	392.00	392.00								
TIPO DE TERRENO																											
PROPIETARIO																											

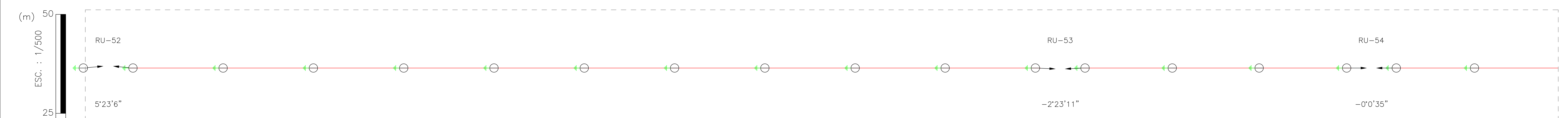


ESCALA : 1/2000 (m) 0 10 20 30 40 50 100 200	<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPCIÓN</th> <th>DISEÑO</th> <th>DIBUJO</th> <th>APROBADO</th> <th>FECHA</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DESCRIPCIÓN	DISEÑO	DIBUJO	APROBADO	FECHA							COMITENTE GOBIERNO DE LA PROVINCIA DE SALTA MINISTERIO DE INFRAESTRUCTURA. GOBIERNO DE SALTA.	OBRA: "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86 - DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONÓ." - CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12 - E301021060191 - NIS 5334376.	DIS. : Ing. MARIO ALFARO REV. : - APR. : - DIB. : Arq. MARIEL ALFARO	DEPARTAMENTO: TARTAGAL PROVINCIA : SALTA DISTRITO : TARTAGAL FECHA :	ESCALA : H : 1/2000 V : 1/500	PLANO : 16/27 01-L.M.T.33 KV
		REV.	DESCRIPCIÓN	DISEÑO	DIBUJO	APROBADO	FECHA												
<b>RUTA N°86</b> Distribución de Estructuras PERFIL Y PLANIMETRIA : 18.51 km A 19.72 km																			

NÚMERO DE ESTRUCTURA	230	231	232	233	234	235	236	237	238	239	240	240	241	242	243	243	244	245
ARMADO PRINCIPAL	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	RA 0 A 30
ACUMULADA (m)	19722.67	19813.73	19904.82	19995.90	20086.99	20178.07	20269.16	20360.24	20451.33	20542.40	20633.48	20633.48	20724.51	20815.67	20906.76	20997.84	21088.91	21180.01
VANO VIENTO (m)	85.33	91.07	91.08	91.08	91.08	91.08	91.08	91.08	91.08	91.08	89.56	88.56	87.85	87.99	83.64	83.64	79.16	88.20
VANO PESO (m)	66.21	84.09	129.52	121.67	58.04	121.67	51.65	73.03	117.61	89.31	91.77	84.51	91.77	71.15	108.11	108.11	52.84	142.83
SOPORTE	3M-0-30(1/15/2700/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)
RETENIDAS																		
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C
CIMENTACIÓN	3M-0-30(1/15/2700/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)	91.06	91.08	91.08	91.08	91.08	91.08	91.08	91.08	91.08	91.08	90.77	88.03	87.66	88.31	88.31	78.98	79.35	79.35
VANO REGULADOR (m)	91.07	91.07	91.07	91.07	91.07	91.07	91.07	91.07	91.07	91.07	91.07	88.00	88.00	88.00	88.00	79.17	79.17	79.17
PARAMETRO CATENARIA (m)	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR	1x18M 95/15 ACSR
CONDUCTOR-G	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7	1x18M_Guante_25/7



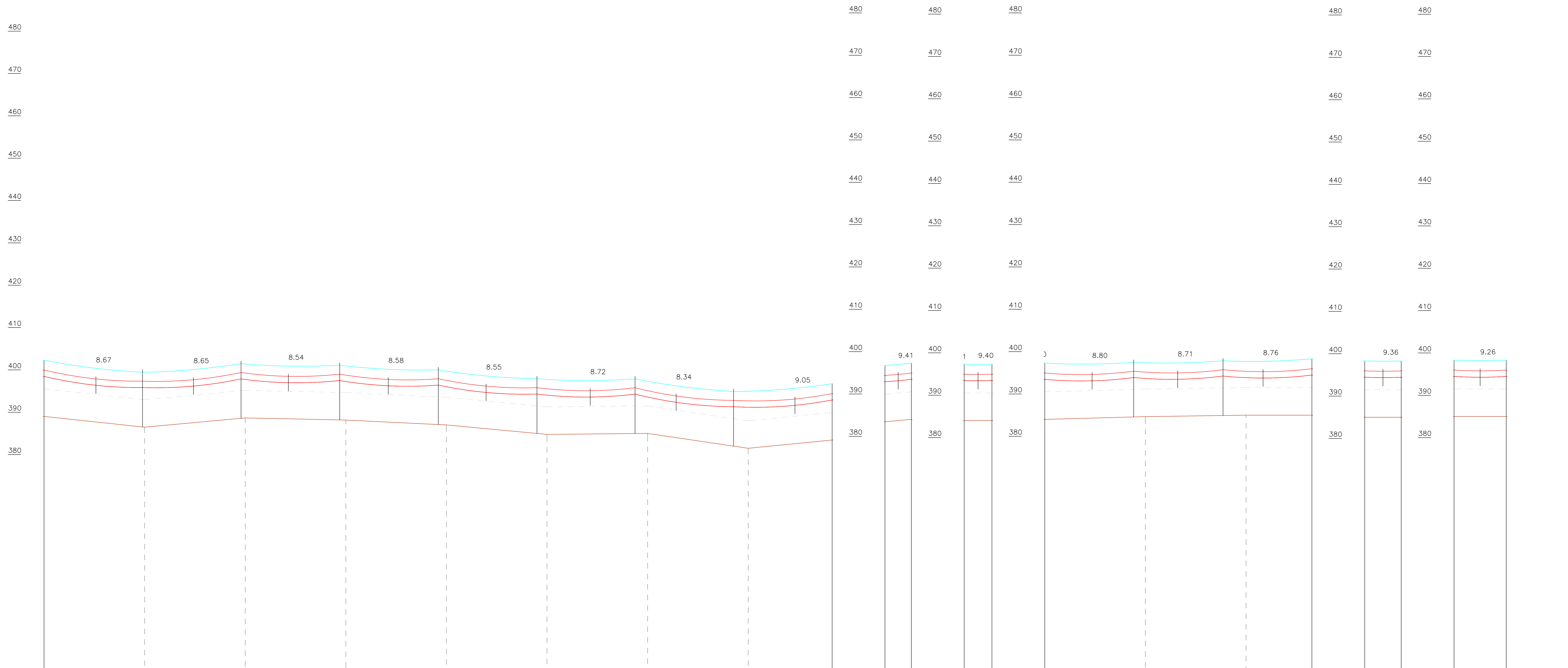
ESTACIÓN	RU-52	-	-	-	-	-	-	-	-	-	-	RU-53	RU-53	-	-	RU-54	RU-54	-	RU-55
DISTANCIA PARCIAL (m)	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	55.51	95.00	95.00	95.00	74.00	95.00	95.00	63.33
DISTANCIA ACUMULADA (m)	19722.67	19813.73	19904.82	19995.90	20086.99	20178.07	20269.16	20360.24	20451.33	20542.40	20633.48	20633.48	20724.51	20815.67	20906.76	20997.84	21088.91	21180.01	21271.11
COTA DE TERRENO (m)	392.00	393.35	395.00	394.00	391.06	391.08	388.01	389.16	390.37	389.00	389.00	388.65	388.34	388.93	388.93	388.33	388.33	389.00	389.00
TIPO DE TERRENO																			
PROPIETARIO																			



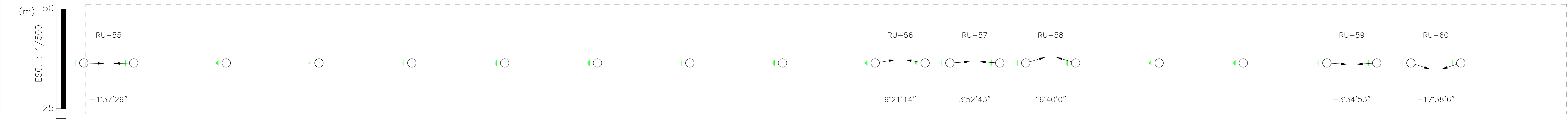
<p>COMITENTE</p> <p>GOBIERNO DE LA PROVINCIA DE SALTA MINISTERIO DE INFRAESTRUCTURA. GOBIERNO DE SALTA.</p>	<p>OBRA: "ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°86 - DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONCO". - CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12 - E301021060191 - NIS 5334376.</p>	<p>DIS. : Ing. MARIO ALFARO</p> <p>REV. :-</p> <p>APR. :-</p> <p>DIB. : Arq. MARIEL ALFARO</p>	<p>DEPARTAMENTO: TARTAGAL</p> <p>PROVINCIA : SALTA</p> <p>DISTRITO : TARTAGAL</p> <p>FECHA :</p>		
<p>RUTA N°86</p> <p>Distribución de Estructuras</p> <p>PERFIL Y PLANIMETRIA : 19.72 km A 21.06 km</p>		<p>ESCALA :</p> <p>H : 1/2000</p> <p>V : 1/500</p>	<p>PLANO : 17/27</p> <p>01-L.M.T.33 KV</p>		
REV.	DESCRIPCIÓN	DISÑO	DIBUJO	APROBADO	FECHA



NÚMERO DE ESTRUCTURA	245	246	247	248	249	250	251	252	253	253	254	254	255	255	256	257	258	258	259	259	260			
ARMADO PRINCIPAL	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	SUSPENSION SIMPLE	SUSPENSION SIMPLE	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30	RA 0 A 30			
ACUMULADA (m)	21055.51	21148.55	21241.54	21334.70	21427.86	21521.01	21613.62	21706.66	21799.77	2	21799.77	21824.40	2	21824.40	21850.73	3	21850.73	21934.62	22019.04	22102.91	22187.27	22271.64		
VANO VIENTO (m)	86.20	93.07	93.07	93.16	93.16	92.89	92.83	93.07	92.97	25.48	25.48	25.48	25.48	55.01	55.01	84.15	84.15	59.12	59.12	41.78	41.78	71.56		
VANO PESO (m)	142.83	18.83	132.66	104.85	109.76	58.82	141.06	18.67	50.07	50.07	60.27	60.27	60.27	47.40	47.40	85.49	85.49	63.30	63.30	41.78	41.78	61.78		
SOPORTE	30A-0-30(1/15/2700/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	EMA-0-30(1/15/2700/3)	EMA-C	30C(1/15/2700/3)	EMA-0-30(1/15/2700/3)	3	EMA-0-30(1/15/2700/3)	EMA-0-30(1/15/2700/3)	ES(1/15/600/3)	ES(1/15/600/3)	EMA-0-30(1/15/2700/3)	EMA	-30(1/15/2700/3)	EMA-0-30(1/15/2700/3)	30A-0-30(1/15/2700/3)	EMA-0-30(1/15/2700/3)
RETENIDAS																								
PUESTA A TIERRA	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	F	PAT-1C	PAT-1C	3	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C	PAT-1C
CIMENTACIÓN	30A-0-30(1/15/2700/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	ES(1/15/600/3)	EMA-0-30(1/15/2700/3)	EMA-C	30C(1/15/2700/3)	EMA-0-30(1/15/2700/3)	3	EMA-0-30(1/15/2700/3)	EMA-0-30(1/15/2700/3)	ES(1/15/600/3)	ES(1/15/600/3)	EMA-0-30(1/15/2700/3)	EMA	-30(1/15/2700/3)	EMA-0-30(1/15/2700/3)	30A-0-30(1/15/2700/3)	EMA-0-30(1/15/2700/3)
AMORTIGUADORES	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
AMORTIGUADORES-G	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
VANO HORIZONTAL (m)	93.04	92.99	92.99	93.16	93.16	93.16	92.61	93.04	93.10	24.83	24.83	24.83	24.83	26.13	26.13	83.89	84.42	84.06	84.06	34.36	34.36	49.20	49.20	
VANO REGULADOR (m)	93.06	93.06	93.06	93.06	93.06	93.06	93.06	93.06	93.06	24.83	24.83	24.83	24.83	26.13	26.13	84.06	84.06	84.06	84.06	34.36	34.36	49.20	49.20	
PARAMETRO CATENARIA (m)	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17	1518.17
PARAM. CAT. - G (m)	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53	2577.53
CONDUCTOR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM	95/15 ACSR	1x18MM	95/15 ACSR	1x18MM	95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR	1x18MM 95/15 ACSR
CONDUCTOR-G	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7	1x18mm_Guante_25/7



ESTACIÓN	RU-55	-	-	-	-	-	-	-	-	-	-	F	RU-58	RU-58	-	-	RU-59	RU-59	RU-60	RU-60	RU-61		
DISTANCIA PARCIAL (m)	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00	130.22	3.22				95.00	95.00	62.18	34	34.36	36	49.20	
DISTANCIA ACUMULADA (m)	21055.51	21150.51	21245.51	21340.51	21435.51	21530.51	21625.51	21720.51	21815.51	21910.51	22005.51	22095.77	22185.73	22275.73	22365.73	22455.73	22545.73	22635.73	22725.73	22815.73	22905.73	22995.73	23085.73
COTA DE TERRENO (m)	389.00	386.47	388.66	388.15	387.00	384.76	385.00	381.48	381.48	381.48	381.48	381.48	384.00	384.00	384.65	385.00	385.00	385.00	385.00	385.00	385.00	385.00	385.00
TIPO DE TERRENO																							
PROPIETARIO																							



COMITENTE GOBIERNO DE LA PROVINCIA DE SALTA MINISTERIO DE INFRAESTRUCTURA GOBIERNO DE SALTA.	OBRA:"ELECTRIFICACION RURAL SOBRE RUTAS PROVINCIAL N°66- DESDE LA CIUDAD DE TARTAGAL HASTA PARAJE TONONO".- CERTIFICADO DE FACTIBILIDAD DSC N° 5645/12- E301021060191-NIS 5334376.	DIS. : Ing. MARIO ALFARO REV. :- APR. :- DIB. : Arq. MARIEL ALFARO	DEPARTAMENTO: TARTAGAL PROVINCIA : SALTA DISTRITO : TARTAGAL FECHA : ESCALA : H : 1/2000 V : 1/500	PLANO : 18/27 01-L.M.T.33 KV	
REV.	DESCRIPCIÓN	DISEÑO	DIBUJO	APROBADO	FECHA

RUTA N°66  
Distribución de Estructuras  
PERFIL Y PLANIMETRÍA : 21.06 km A 22.19 km



República Argentina - Poder Ejecutivo Nacional  
1983/2023 - 40 AÑOS DE DEMOCRACIA

**Hoja Adicional de Firmas**  
**Informe gráfico**

**Número:**

**Referencia:** TONONO - Planos - Vista Perfil 10 a 18

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