

PARQUE EÓLICO EN PANTÍN  
WIND FARM IN PANTÍN  
VALDOVIÑO (A CORUÑA)





DOCUMENTO Nº1: MEMORIA:

- Memoria descriptiva
- Memoria justificativa:
  - Anejo 01: Antecedentes administrativos y normativa aplicable
  - Anejo 02: Estudio del recurso eólico
  - Anejo 03: Análisis de alternativas
  - Anejo 04: Estudio geológico
  - Anejo 05: Estudio geotécnico
  - Anejo 06: Cartografía y replanteo
  - Anejo 07: Viales y plataformas
  - Anejo 08: Cimentaciones
  - Anejo 09: Evaluación de impacto ambiental
  - Anejo 10: Gestión de residuos
  - Anejo 11: Estudio de seguridad y salud
  - Anejo 12: Justificación de precios
  - Anejo 13: Plan de obra
  - Anejo 14: Clasificación del contratista
  - Anejo 15: Reportaje fotográfico.

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2. planta general
  - 2.1. planos guía y bases de replanteo
  - 2.2. planta
3. Perfiles longitudinales
4. Perfiles transversales
5. Plataformas de montaje

6. Secciones tipo

7. Cimentaciones

DOCUMENTO Nº 3.- PLIEGO DE PRESCRIPCIONES TÉCNICAS PARTICULARES

DOCUMENTO Nº 4.- PRESUPUESTO:

Mediciones Auxiliares

Mediciones

Cuadro de Precios Nº 1

Cuadro de Precios Nº 2

Presupuesto.

Resumen del Presupuesto



Proyecto Fin de Grado: Parque eólico en Pantín

E.T.S. Ingenieros de Caminos, Canales y Puertos

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Autor: Emilio Ángel Serantes Carro

**DOCUMENTO N°2: PLANOS**



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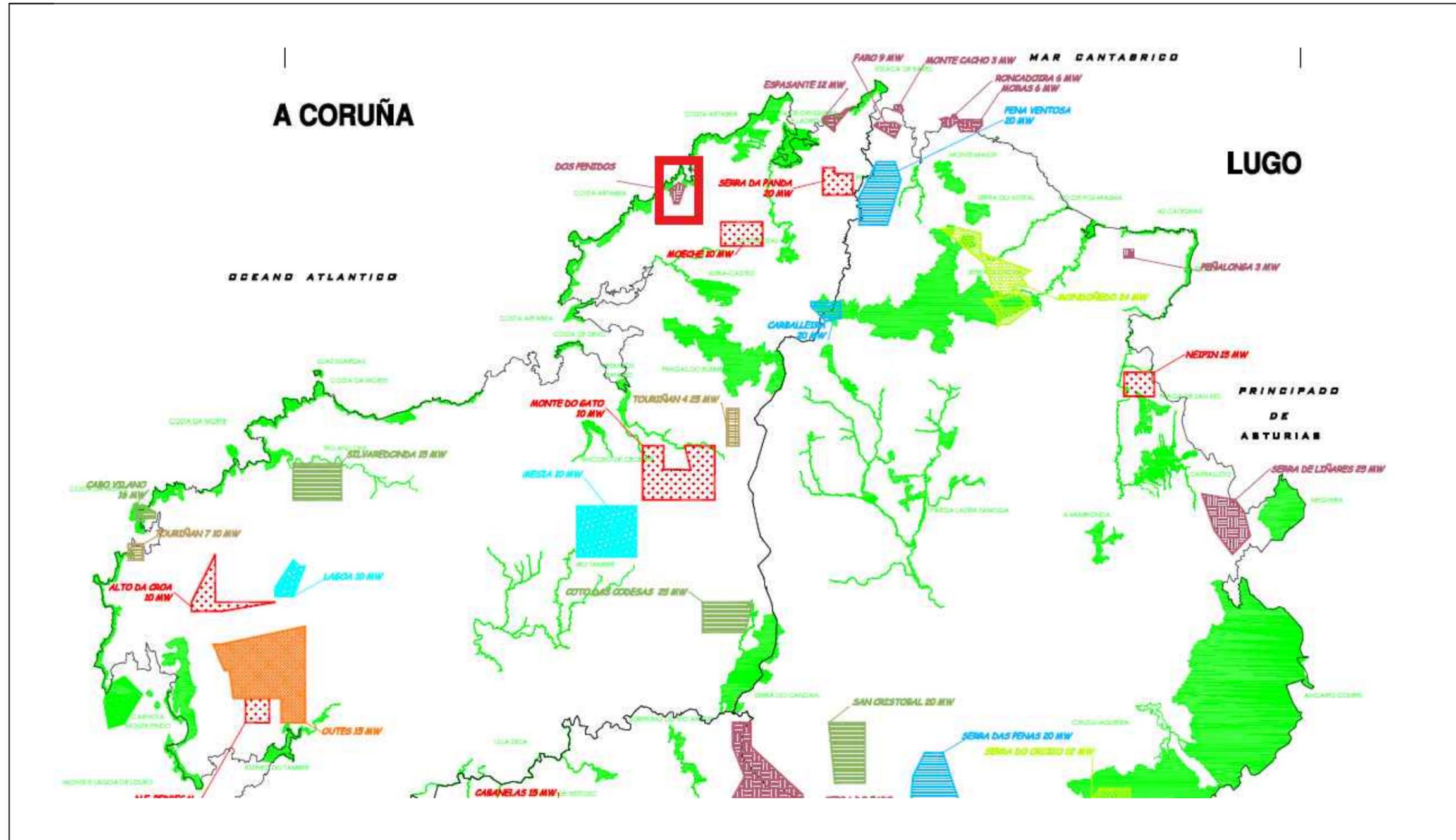
Proyecto Fin de Grado: Parque eólico en Pantín

E.T.S. Ingenieros de Caminos, Canales y Puertos

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Autor: Emilio Ángel Serantes Carro

## **1. SITUACIÓN**



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

Firma:

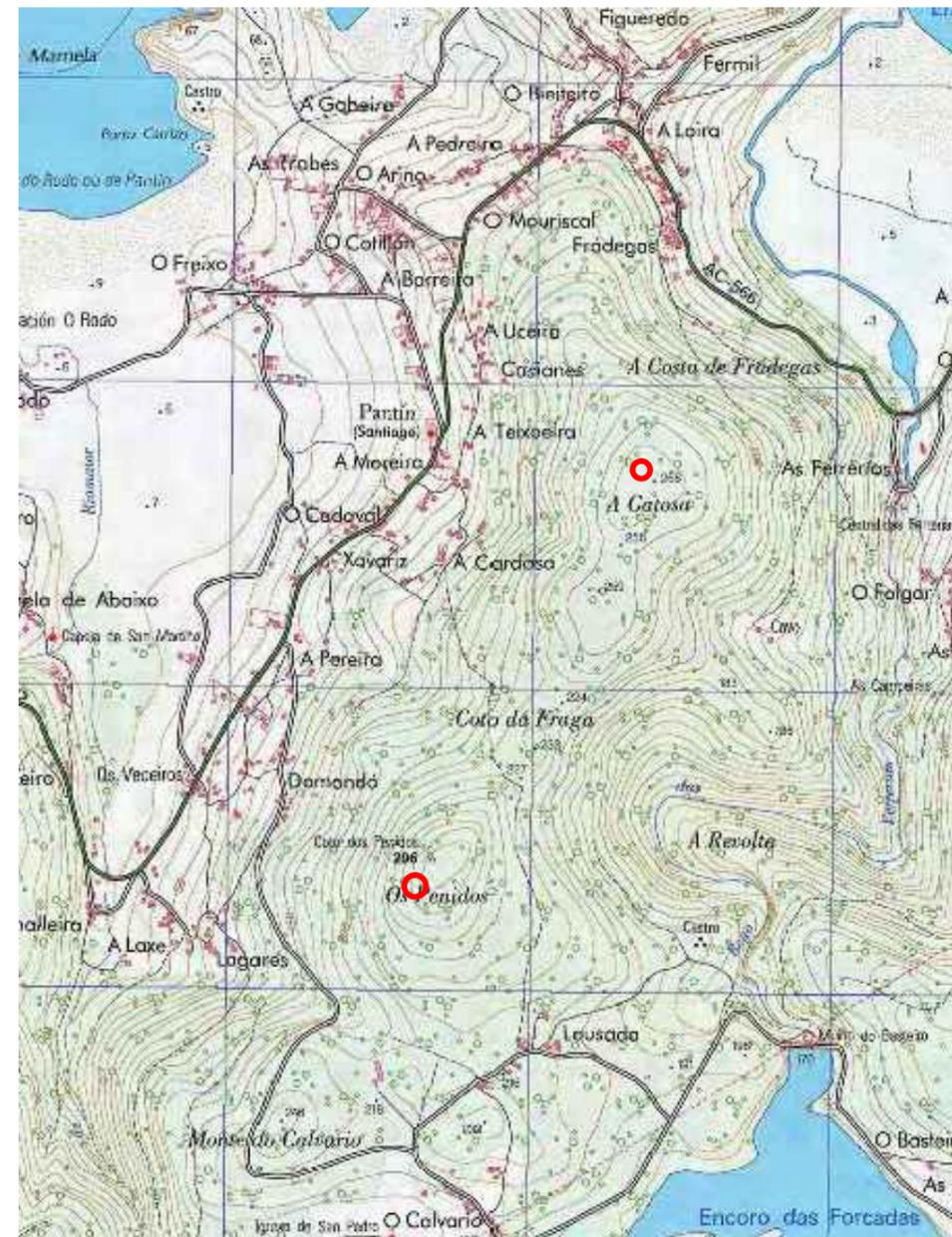
Fecha:  
Junio 2017

Título del  
plano:

Situación

Nº plano:  
1  
Nº Hoja:  
1

Escala:  
1/800.000



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

Firma:

Fecha:  
Junio 2017

Título del  
plano:

Situación

Nº plano:  
1

Escala:

Nº hoja:  
2

varias



Proyecto Fin de Grado: Parque eólico en Pantín

E.T.S. Ingenieros de Caminos, Canales y Puertos

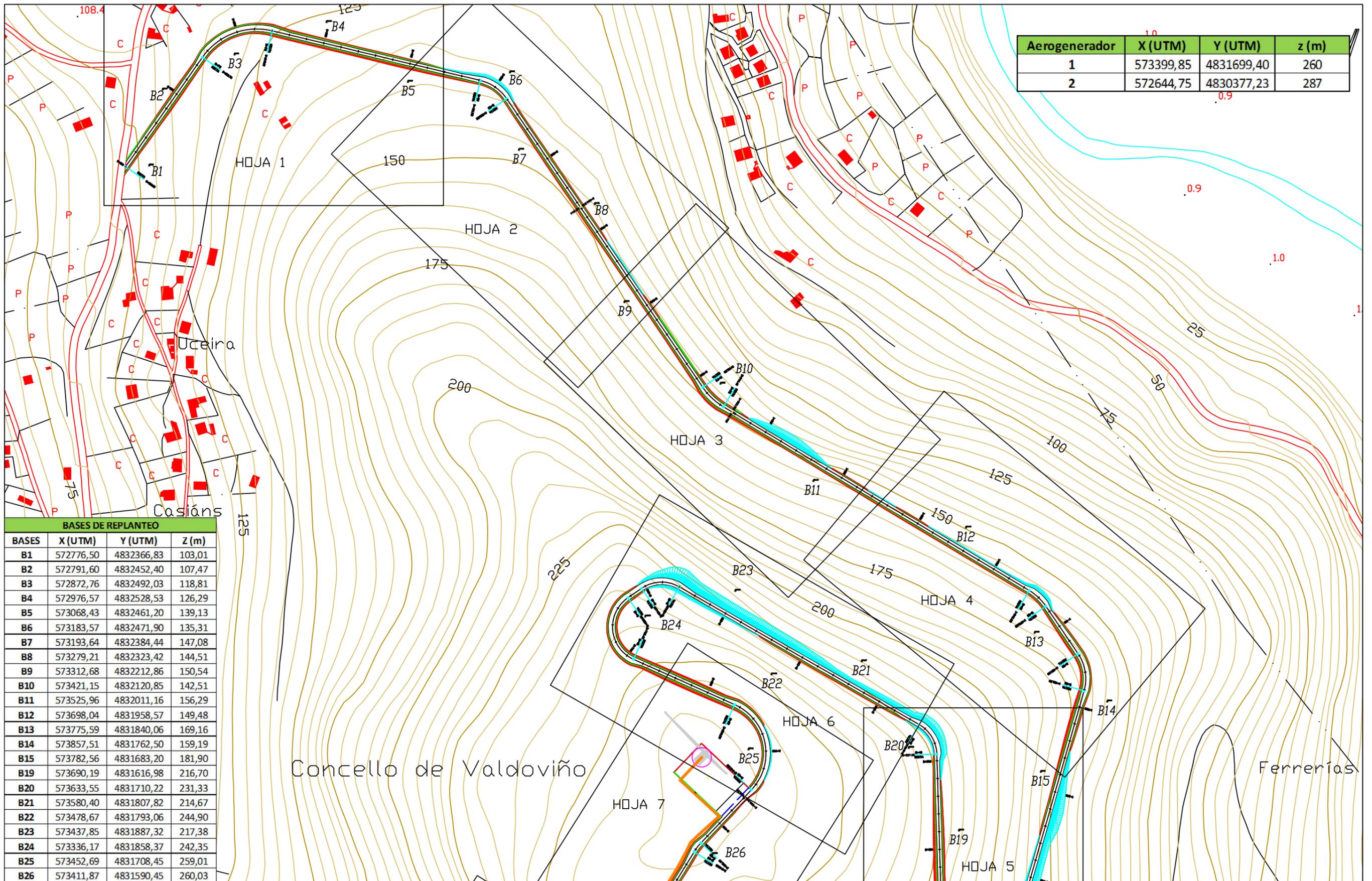
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Autor: Emilio Ángel Serantes Carro

## **2. PLANTA GENERAL**



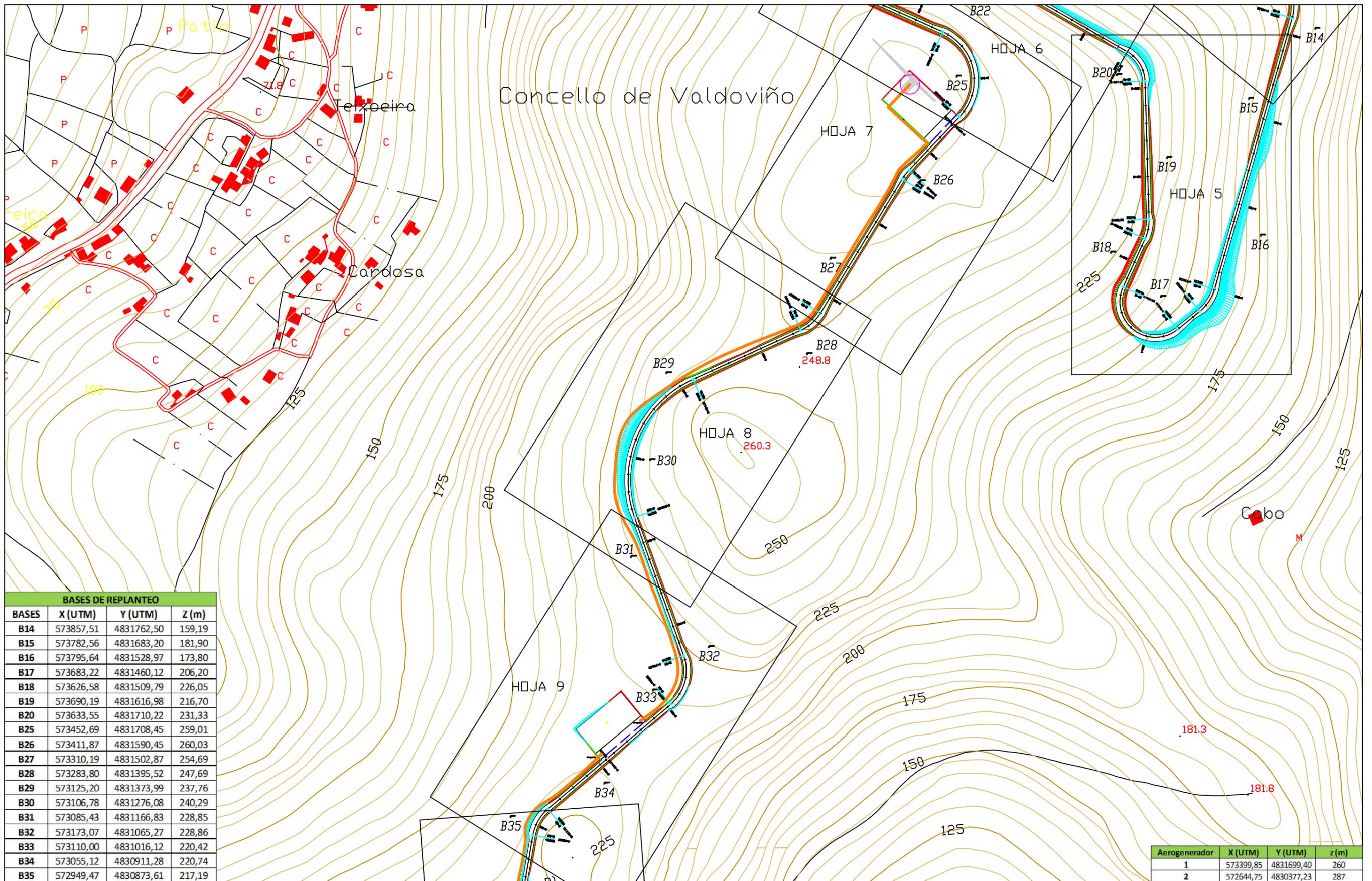
## **2.1 PLANO GUÍA Y BASES DE REPLANTEO**



Aerogenerador	X (UTM)	Y (UTM)	z (m)
1	573399,85	4831699,40	260
2	572644,75	4830377,23	287

BASES DE REPLANTEO			
BASES	X (UTM)	Y (UTM)	Z (m)
B1	572776,50	4832366,83	103,01
B2	572791,60	4832452,40	107,47
B3	572872,76	4832492,03	118,81
B4	572976,57	4832528,53	126,29
B5	573068,43	4832461,20	139,13
B6	573183,57	4832471,90	135,31
B7	573193,64	4832384,44	147,08
B8	573279,21	4832323,42	144,51
B9	573312,68	4832212,86	150,54
B10	573421,15	4832120,85	142,51
B11	573525,96	4832011,16	156,29
B12	573698,04	4831958,57	149,48
B13	573775,59	4831840,06	169,16
B14	573857,51	4831762,50	159,19
B15	573782,56	4831683,20	181,90
B19	573690,19	4831616,98	216,70
B20	573633,55	4831710,22	231,33
B21	573580,40	4831807,82	214,67
B22	573478,67	4831793,06	244,90
B23	573437,85	4831887,32	217,38
B24	573336,17	4831858,37	242,35
B25	573452,69	4831708,45	259,01
B26	573411,87	4831590,45	260,03

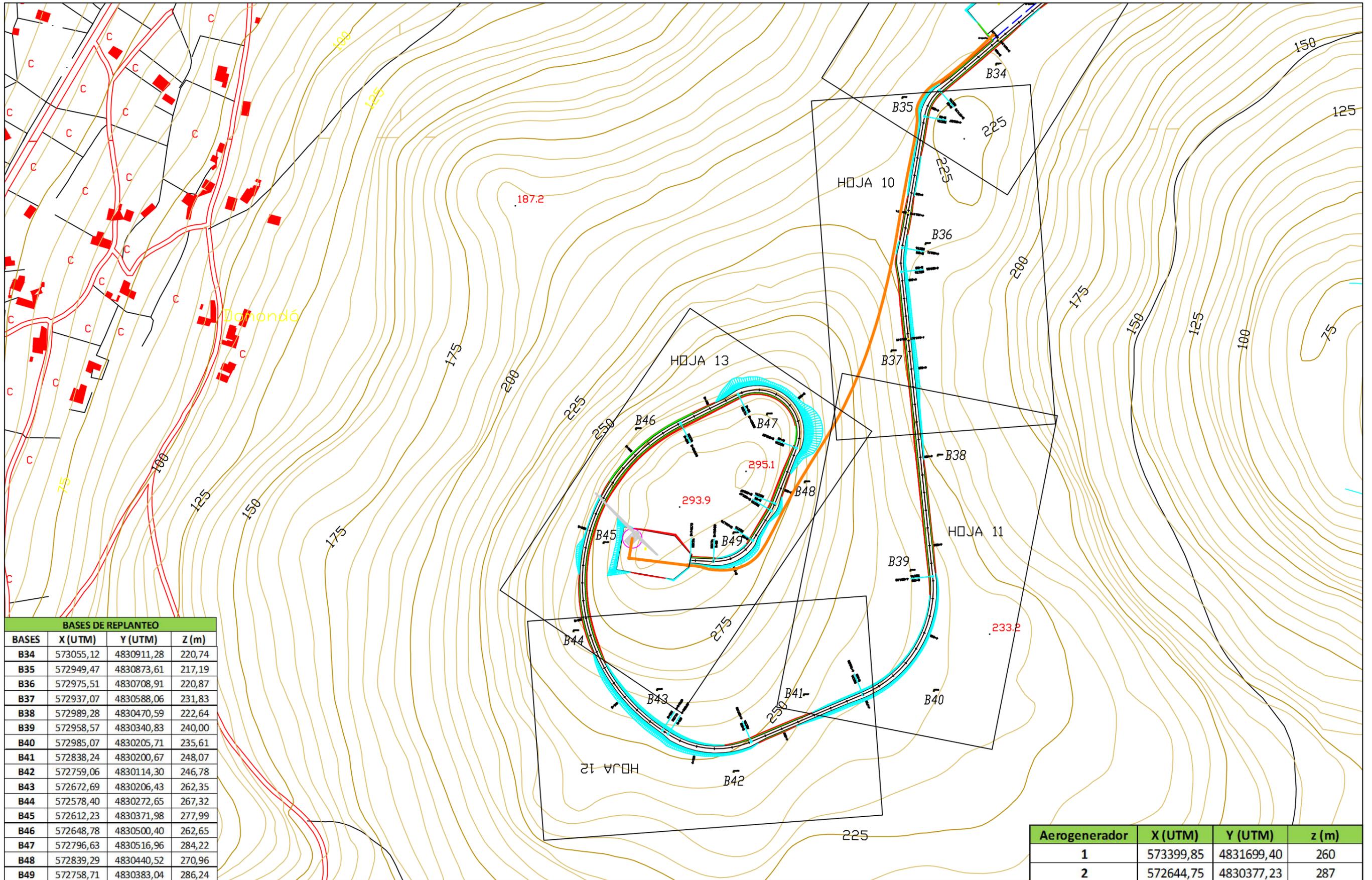
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BASES DE REPLANTEO			
BASES	X (UTM)	Y (UTM)	Z (m)
B14	573857,51	4831762,50	159,19
B15	573782,56	4831683,20	181,90
B16	573795,64	4831528,97	173,80
B17	573683,22	4831460,12	206,20
B18	573626,58	4831509,79	226,05
B19	573690,19	4831616,98	216,70
B20	573633,55	4831710,22	231,33
B25	573452,69	4831708,45	259,01
B26	573411,87	4831590,45	260,03
B27	573310,19	4831502,87	254,69
B28	573283,80	4831395,52	247,69
B29	573125,20	4831373,99	237,76
B30	573106,78	4831276,08	240,29
B31	573085,43	4831166,83	228,85
B32	573173,07	4831065,27	228,86
B33	573110,00	4831016,12	220,42
B34	573055,12	4830911,28	220,74
B35	572949,47	4830873,61	217,19

Aerogenerador	X (UTM)	Y (UTM)	z (m)
1	573399,85	4831699,40	260
2	572644,75	4830377,23	287

	Proyecto: <b>Parque eólico en Pantín</b>	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general: Plano guía y bases de replanteo	Nº plano: <b>2.1</b>	Escala: <b>1/4000</b>



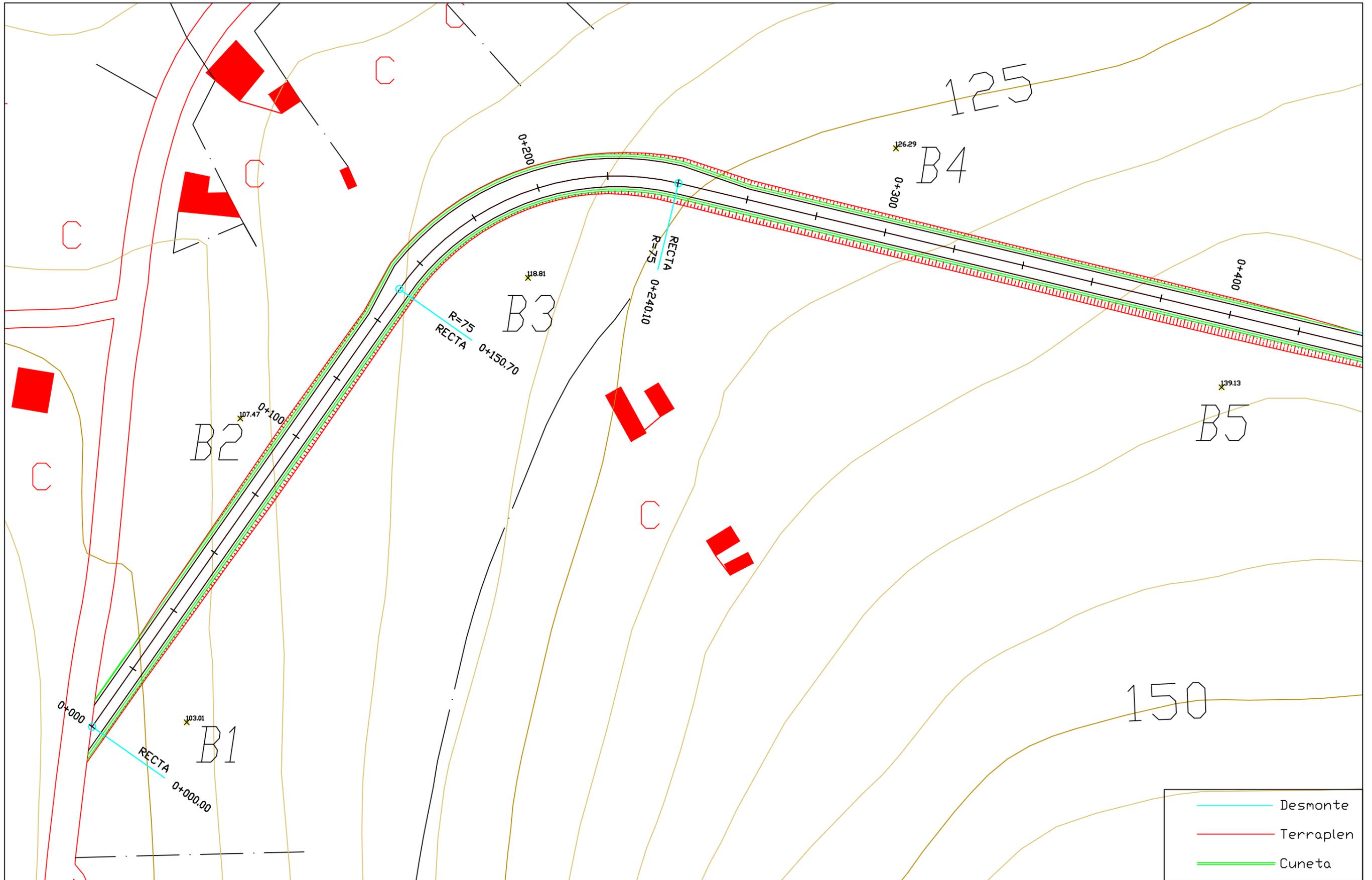
BASES DE REPLANTEO			
BASES	X (UTM)	Y (UTM)	Z (m)
B34	573055,12	4830911,28	220,74
B35	572949,47	4830873,61	217,19
B36	572975,51	4830708,91	220,87
B37	572937,07	4830588,06	231,83
B38	572989,28	4830470,59	222,64
B39	572958,57	4830340,83	240,00
B40	572985,07	4830205,71	235,61
B41	572838,24	4830200,67	248,07
B42	572759,06	4830114,30	246,78
B43	572672,69	4830206,43	262,35
B44	572578,40	4830272,65	267,32
B45	572612,23	4830371,98	277,99
B46	572648,78	4830500,40	262,65
B47	572796,63	4830516,96	284,22
B48	572839,29	4830440,52	270,96
B49	572758,71	4830383,04	286,24

Aerogenerador	X (UTM)	Y (UTM)	z (m)
1	573399,85	4831699,40	260
2	572644,75	4830377,23	287

	Proyecto: <b>Parque eólico en Pantín</b>	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general: Plano guía y bases de replanteo	Nº plano: 2.1	Escala: <b>1/4000</b>



## **2.2 PLANTA**



- Desmorte
- Terraplen
- Cuneta



Proyecto:  
 Parque eólico en  
 Pantín

Autor:  
 Emilio Ángel  
 Serantes Carro

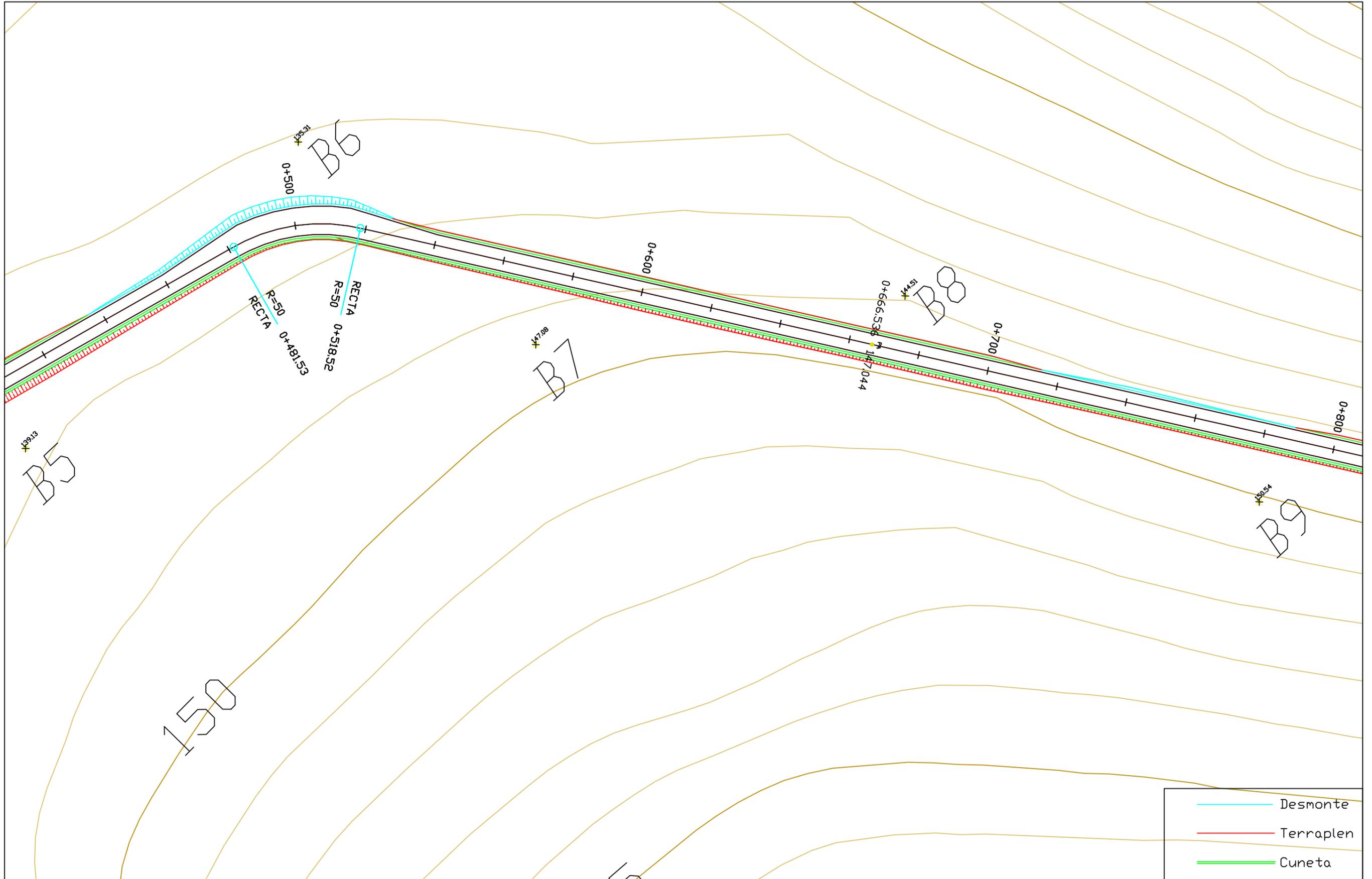
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Fecha:  
 Junio 2017

Título del  
 plano:  
 Planta general

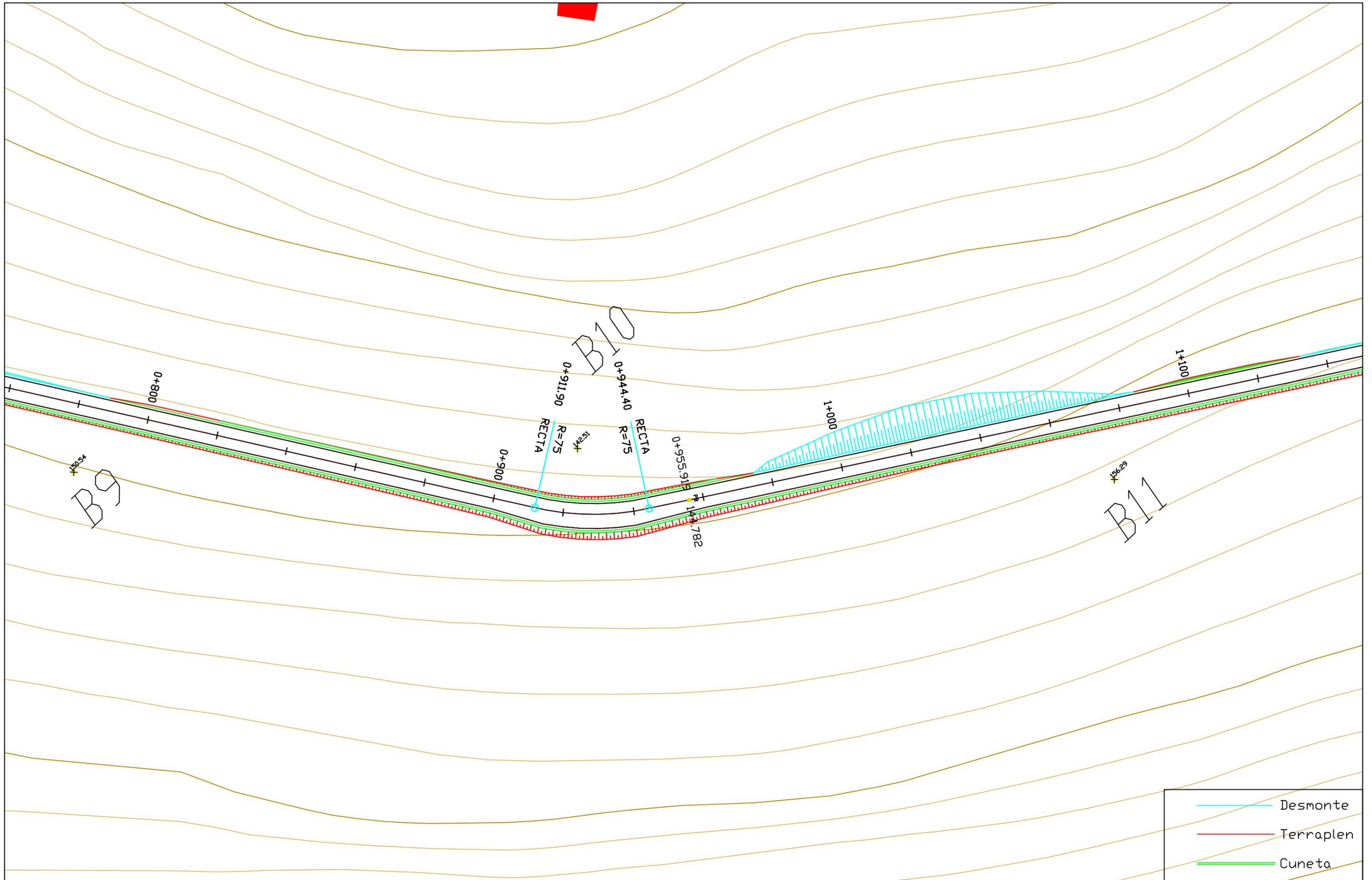
Nº plano:  
 2.2  
 Nº Hoja:  
 1

Escala:  
 1/1000



	Desmorte
	Terraplen
	Cuneta

	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2	Escala: 1/1000
						Nº Hoja: 2	



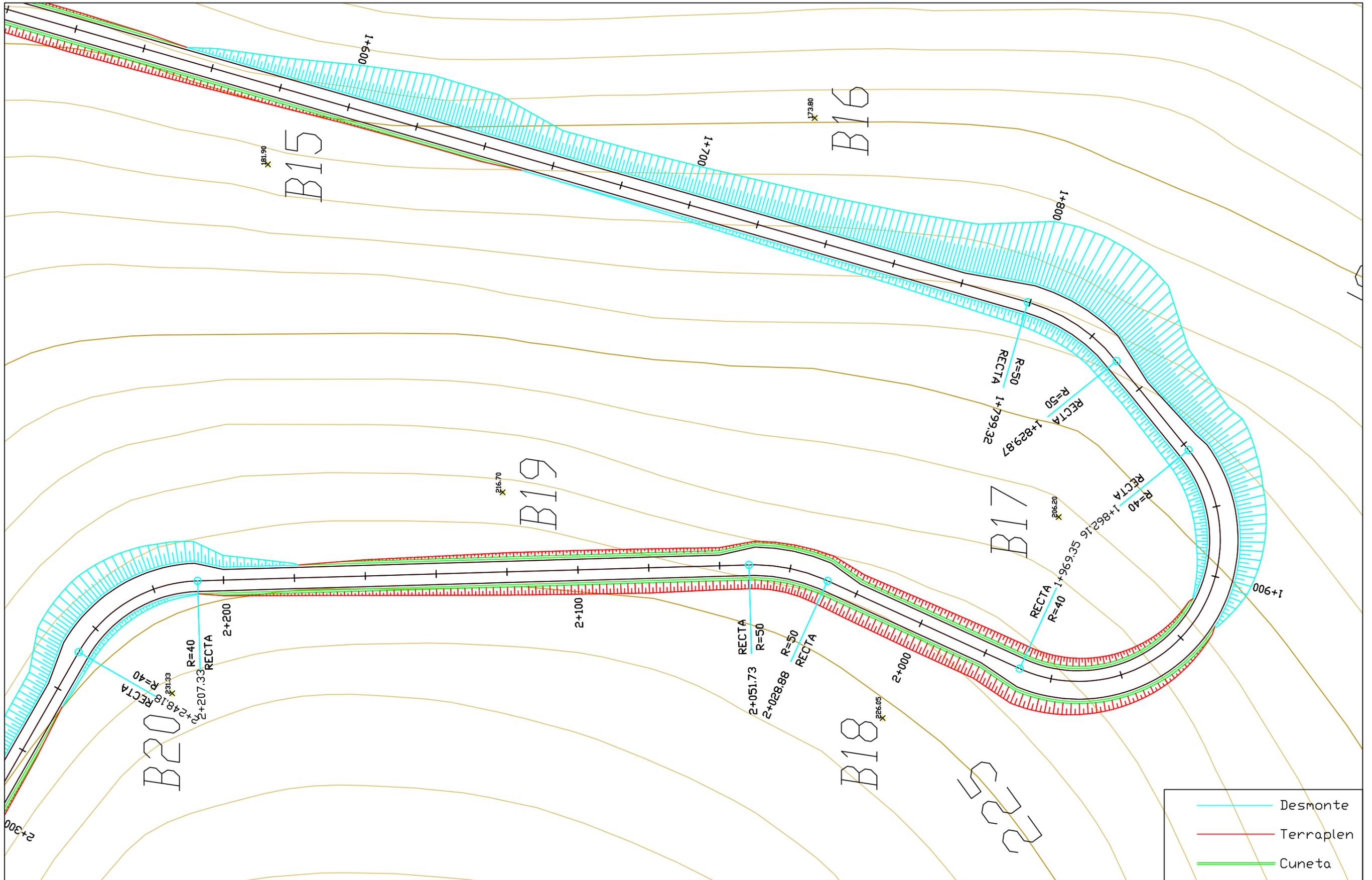
	Desmonte
	Terraplen
	Cuneta

	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2	Escala: 1/1000
						Nº Hoja: 3	

- Desmorte
- Terraplen
- Cuneta



	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2 Nº hoja: 4	Escala: 1/1000
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- Desmorte
- Terraplen
- Cuneta



UNIVERSIDADE DA CORUÑA

Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

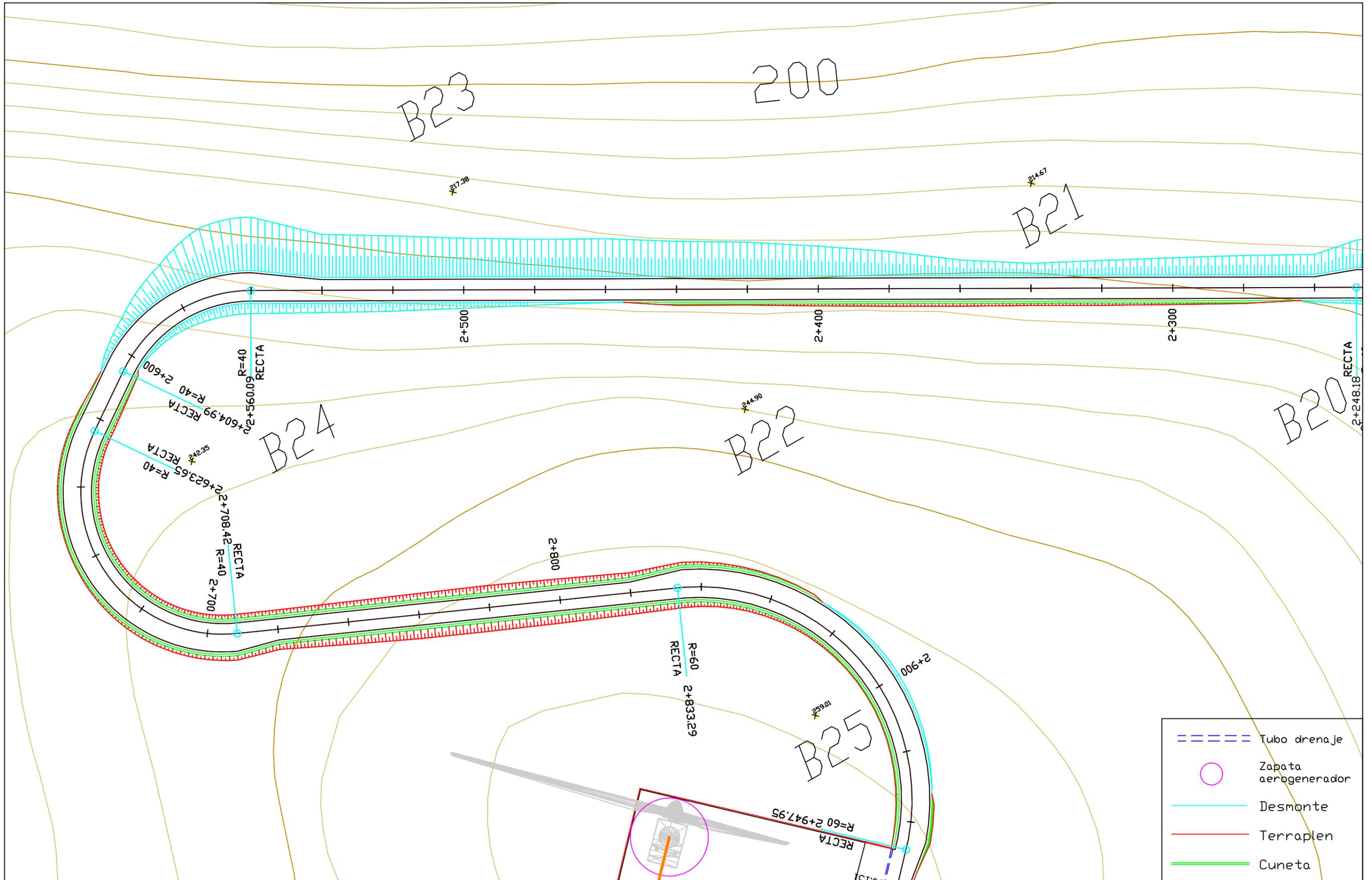
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Fecha:  
Junio 2017

Título del  
plano:  
Planta general

Nº plano:  
2.2  
Nº Hoja:  
5

Escala:  
1/1000



UNIVERSIDADE DA CORUÑA

Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

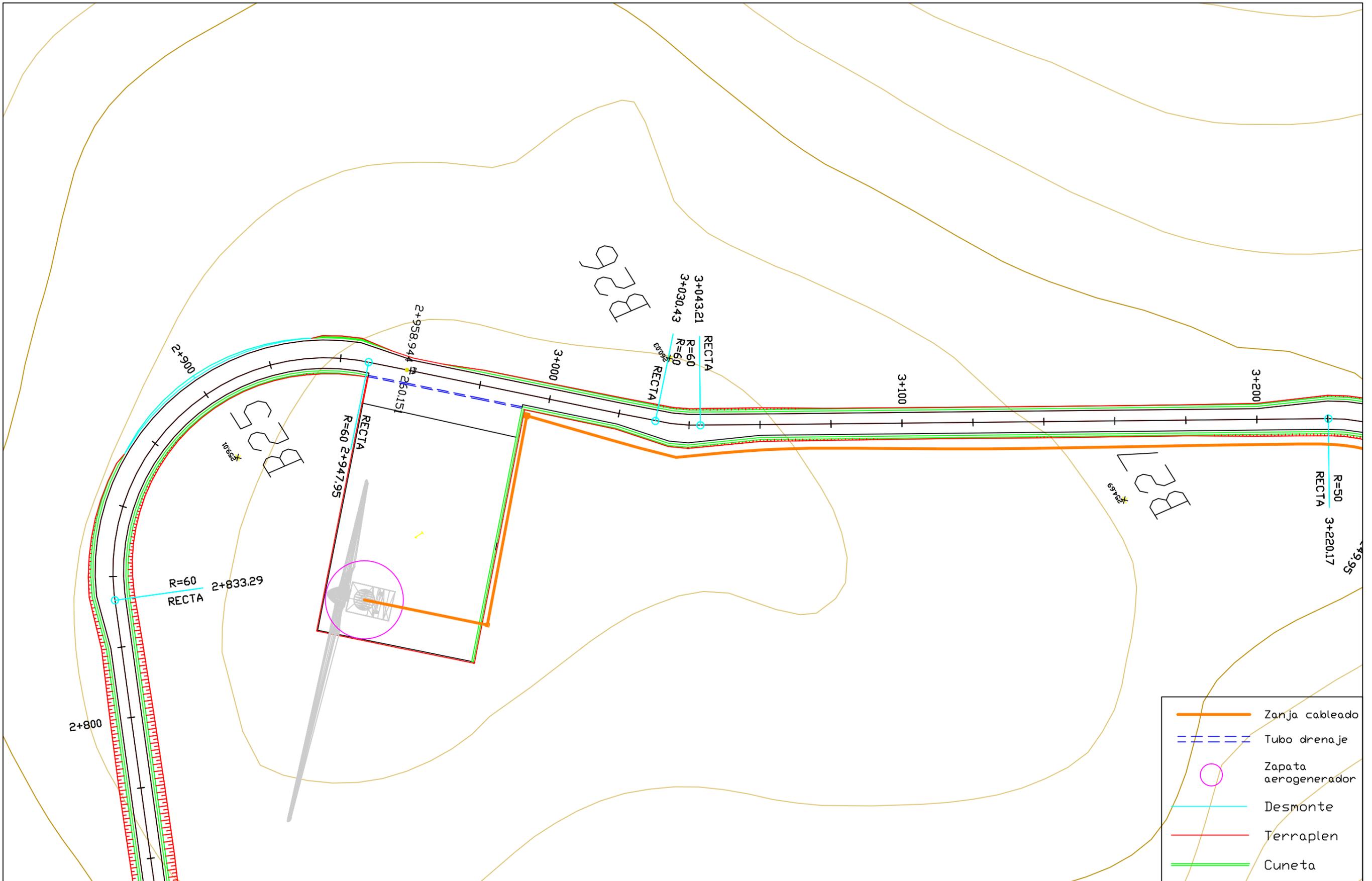
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Junio 2017

Título del  
plano:  
Planta general

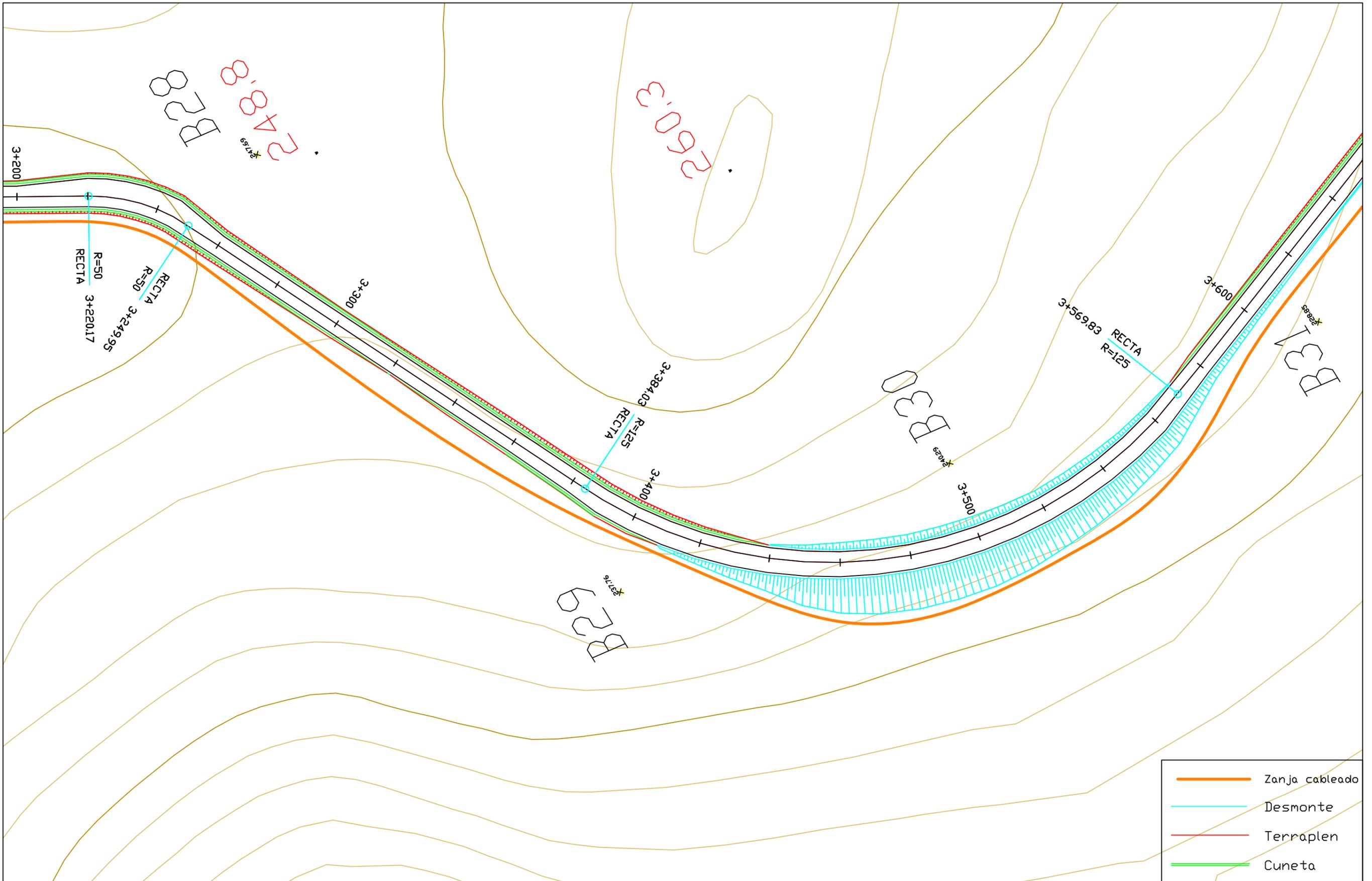
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2.2  
Nº Hoja:  
6

Escala:  
1/1000



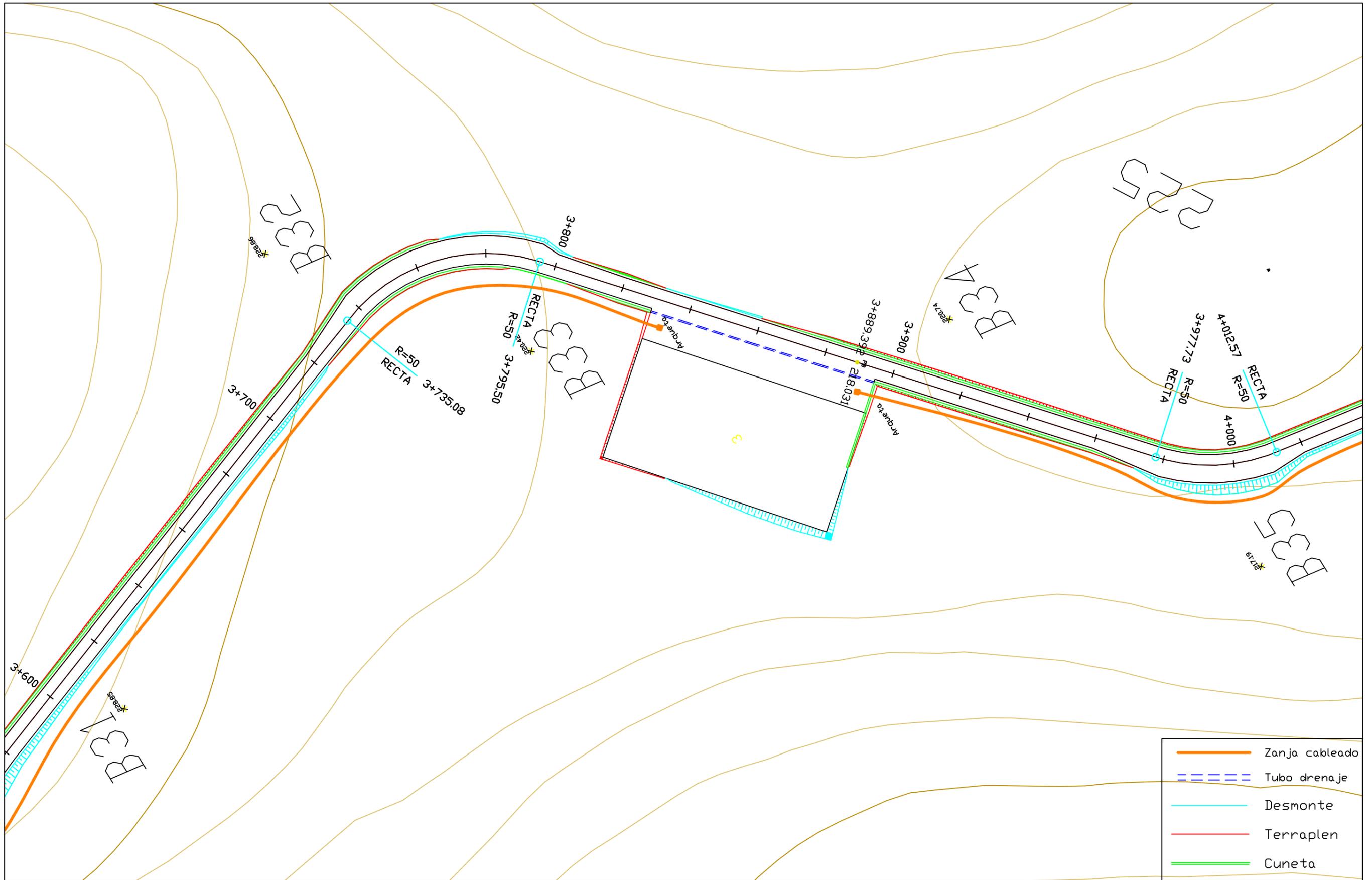
- Zanja cableado
- - - Tubo drenaje
- Zapata aerogenerador
- Desmonte
- Terraplen
- Cuneta

	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2	Escala: 1/1000
							Nº Hoja: 7



	Zanja cableado
	Desmote
	Terraplen
	Cuneta

  UNIVERSIDADE DA CORUÑA	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2	Escala: 1/1000
						Nº Hoja: 8	



Proyecto:  
 Parque eólico en  
 Pantín

Autor:  
 Emilio Ángel  
 Serantes Carro

Firma:  


Fecha:  
 Junio 2017

Título del  
 plano:  
 Planta general

Nº plano:  
 2.2  
 Nº Hoja:  
 9

Escala:  
 1/1000



UNIVERSIDADE DA CORUÑA

Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

Firma:

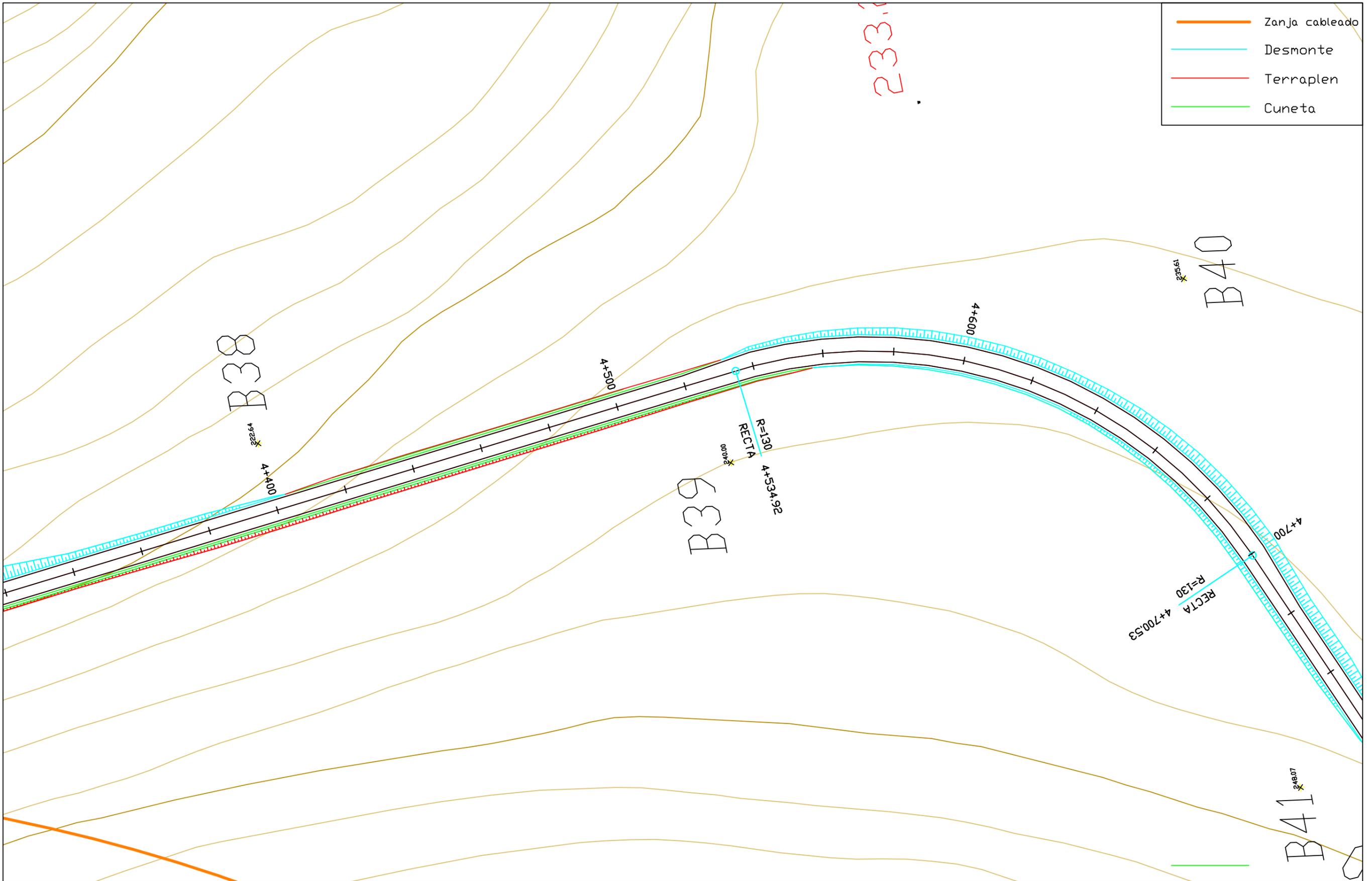
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Junio 2017

Título del  
plano:  
Planta general

Nº plano:  
2.2  
Nº Hoja:  
10

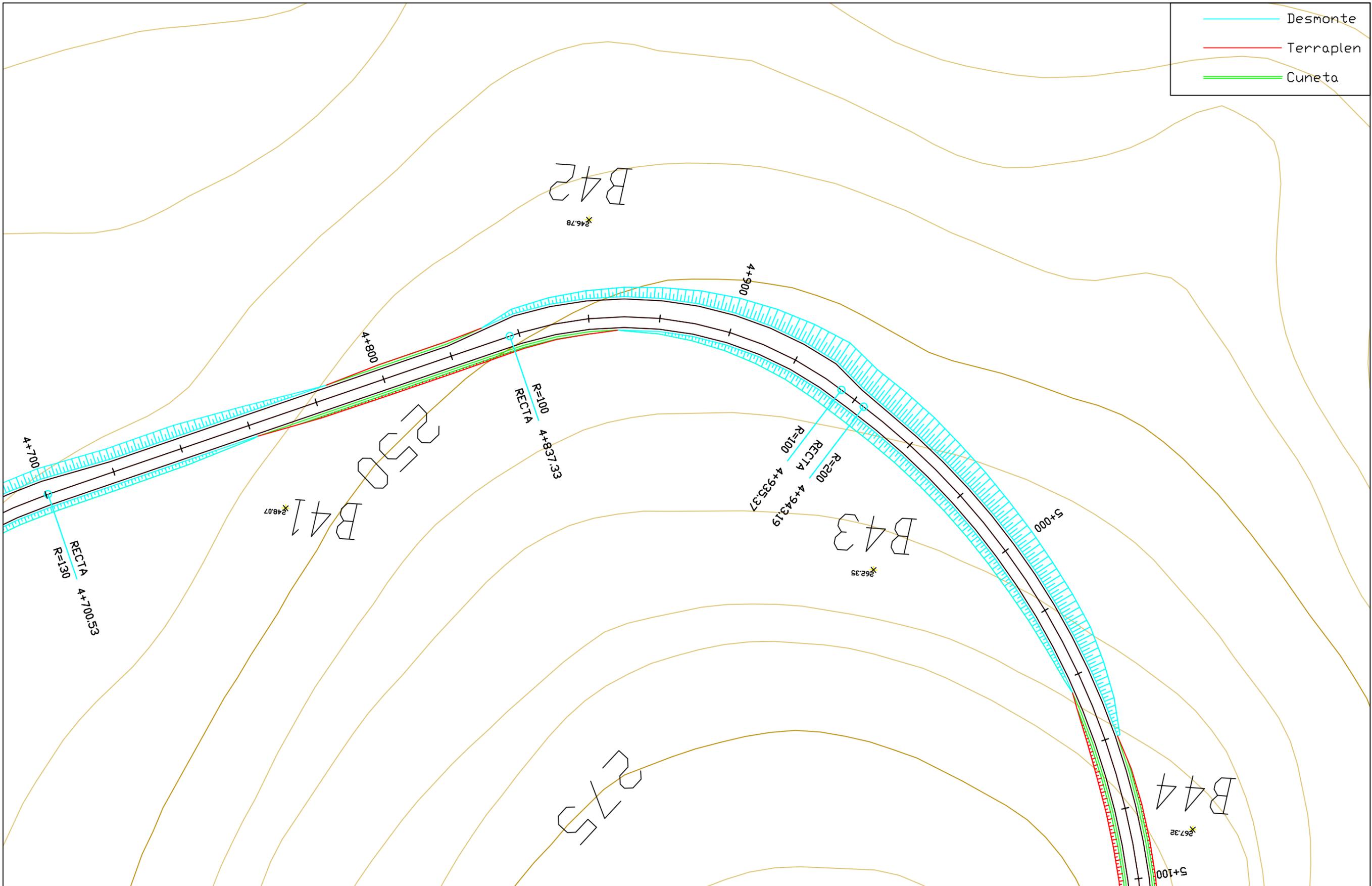
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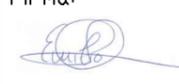
- Zanja cableado
- Desmonte
- Terraplen
- Cuneta

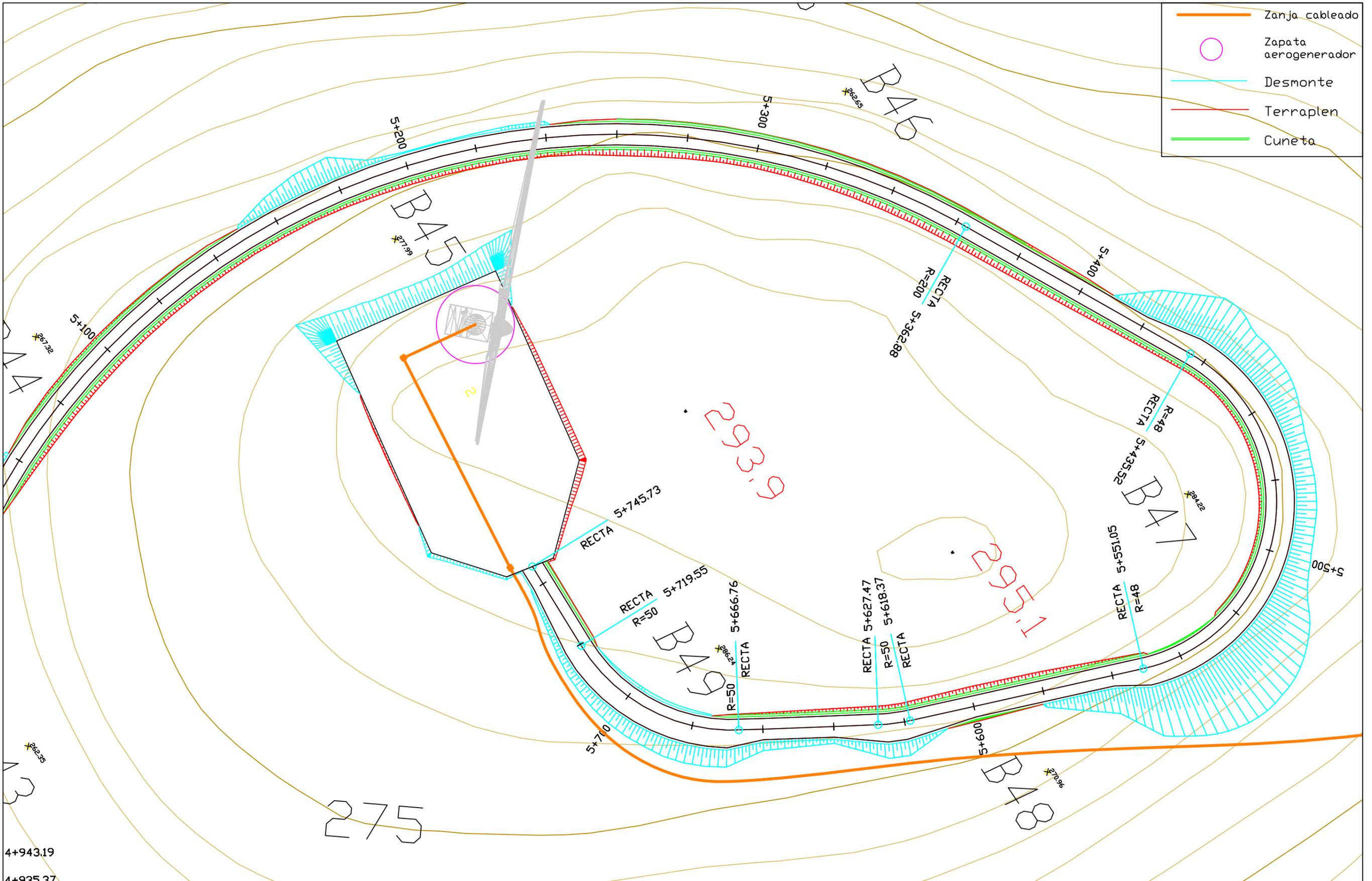


	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2 Nº hoja: 11	Escala: 1/1000
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- Desmorte
- Terraplen
- Cuneta



	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2 Nº hoja: 12	Escala: 1/1000
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- Zanja cableado
- Zapata aerogenerador
- Desmonte
- Terraplen
- Cuneta

4+943.19  
4+935.37

275

	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Planta general	Nº plano: 2.2	Escala: 1/1000



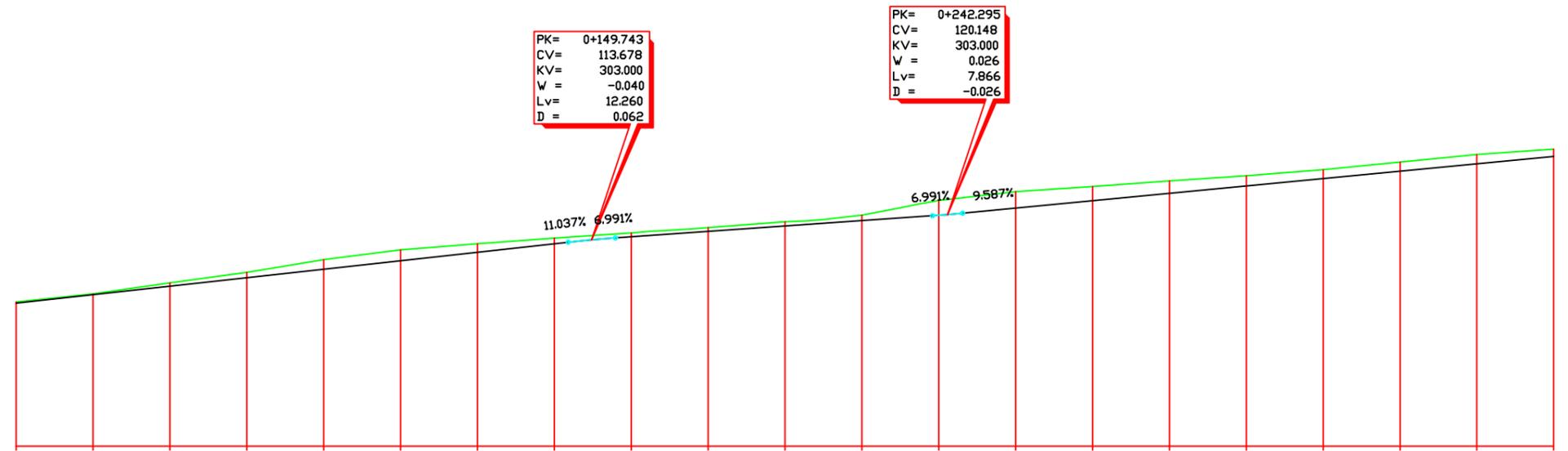
Proyecto Fin de Grado: Parque eólico en Pantín

E.T.S. Ingenieros de Caminos, Canales y Puertos

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Autor: Emilio Ángel Serantes Carro

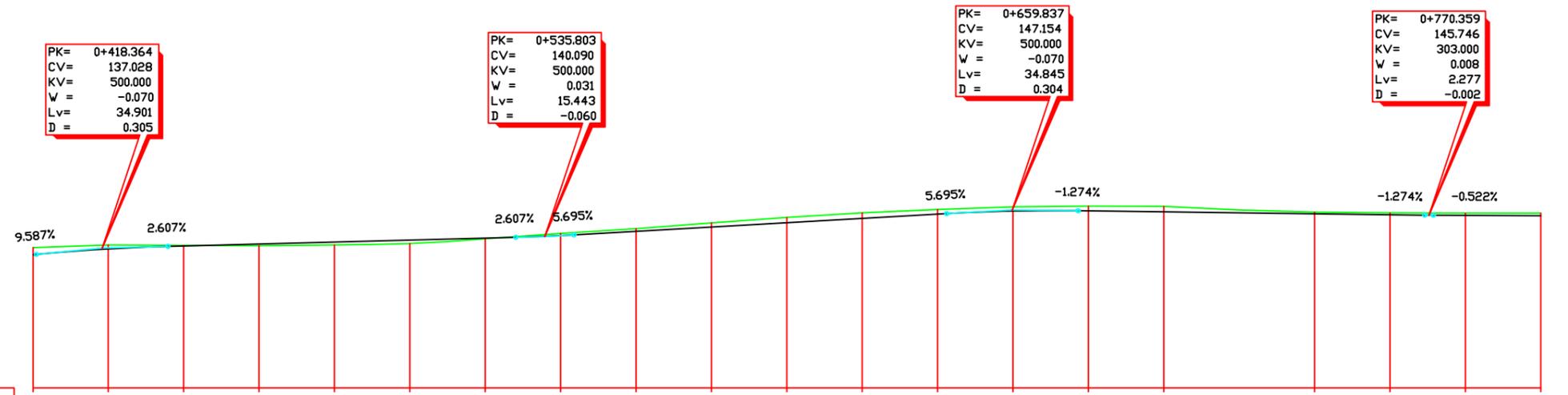
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 Lv= 12.260  
 D = 0.062

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 CV= 120.148  
 KV= 303.000  
 W = 0.026  
 Lv= 7.866  
 D = -0.026

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P.K.		0+000									0+200												
DISTANCIAS	AL ORIGEN	0.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	220.000	240.000	260.000	280.000	300.000	320.000	340.000	360.000	380.000	400.000	
	PARCIALES	0.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000
ORDENADAS	RASANTE	97.150	99.357	101.565	103.772	105.980	108.187	110.395	112.602	114.395	115.793	117.191	118.589	119.992	121.845	123.763	125.680	127.598	129.515	131.433	133.350	135.267	
	TERRENO	97.46	99.60	102.45	105.16	108.45	111.02	112.60	114.04	115.42	116.76	118.30	120.02	123.81	126.11	127.45	128.89	130.22	131.85	133.80	135.74	137.14	
COTAS ROJAS	DESMONTE	0.31	0.24	0.89	1.39	2.47	2.83	2.20	1.44	1.03	0.97	1.11	1.43	3.82	4.26	3.69	3.21	2.62	2.24	2.27	2.39	1.87	
	TERRAPLEN				140.00				5.005.00		90.00			5.005.00					221.00				
ACUERDOS VERTICALES									0+143.613 113.001	0+155.873 114.106				0+238.362 119.873	0+246.228 120.525								
DIAGRAMA DE CURVATURAS		RECTA																					
DIAGRAMA DE PERALTES		BD=2.00% BI=2.00%																					



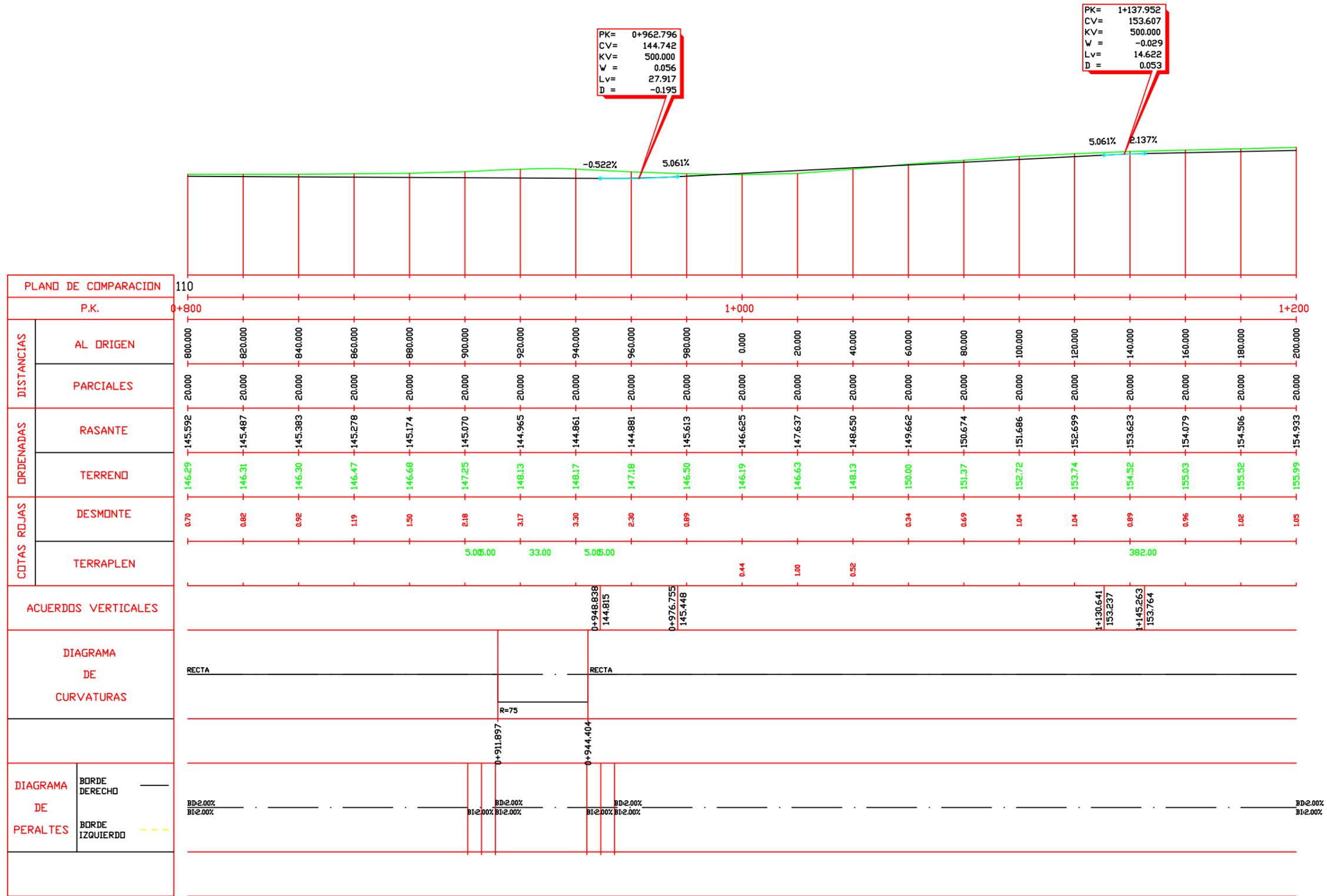
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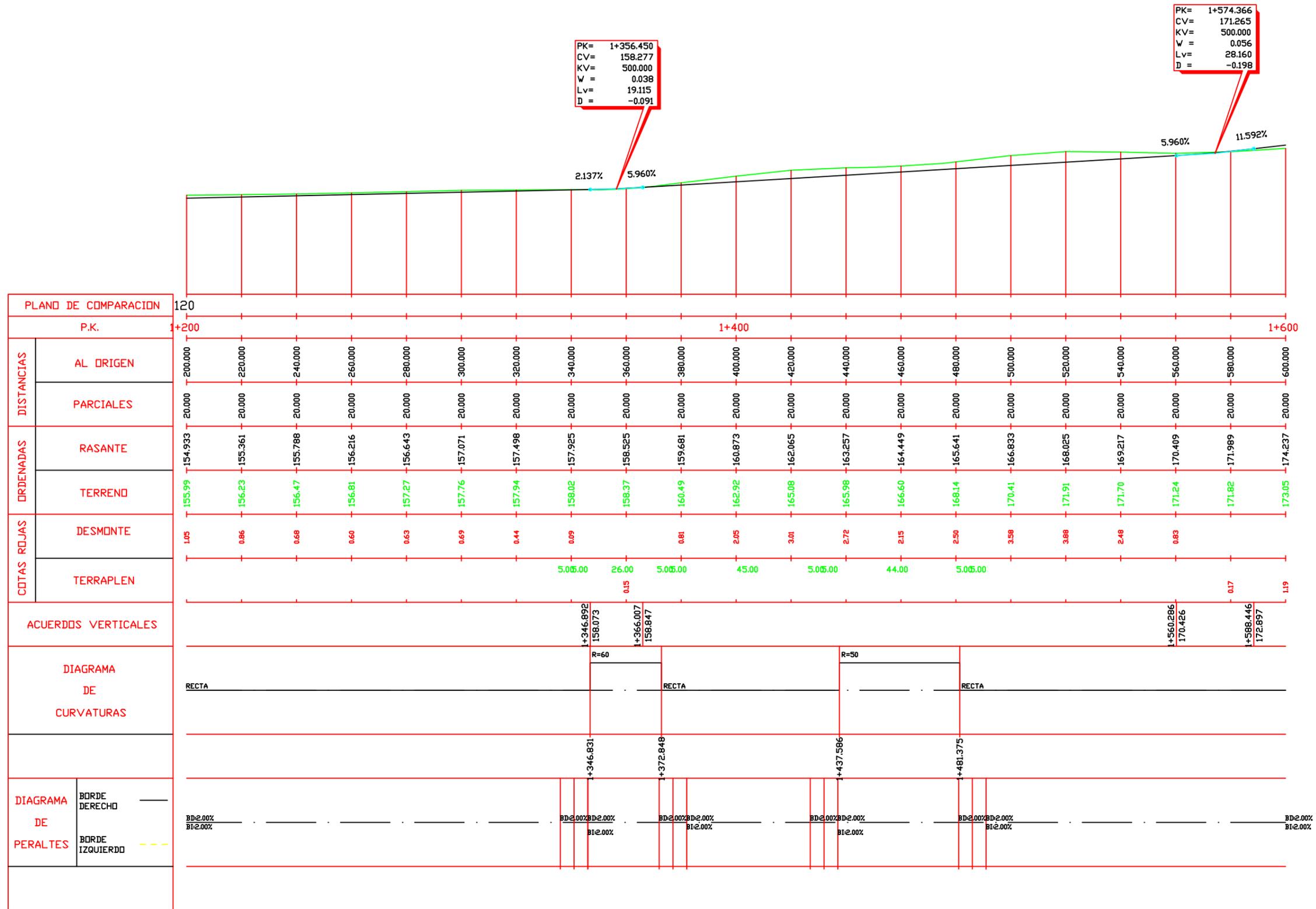
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 Lv= 2.277  
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PLANO DE COMPARACION		100
P.K.		0+400
DISTANCIAS	AL ORIGEN	400.000
	PARCIALES	20.000
ORDENADAS	RASANTE	135.267
	TERRENO	137.14
COTAS ROJAS	DESMONTE	1.87
	TERRAPLEN	
ACUERDOS VERTICALES		0+400.913 135.355
DIAGRAMA DE CURVATURAS		RECTA
DIAGRAMA DE PERALTES		BD:2.00% BI:2.00%



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 CV= 171.265  
 KV= 500.000  
 W = 0.056  
 Lv= 28.160  
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Proyecto:  
Parque eólico en Pantín

Autor:  
Emilio Ángel Serantes Carro

Firma:  
*[Signature]*

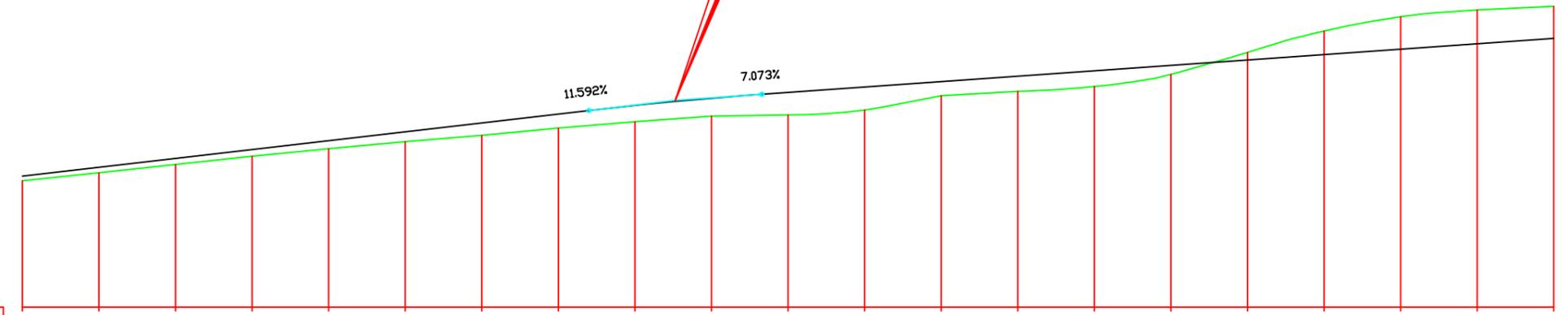
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Junio 2017

Título del plano:  
Perfiles longitudinales

Nº plano:  
3  
Nº hoja:  
4

Escala:  
1/1500

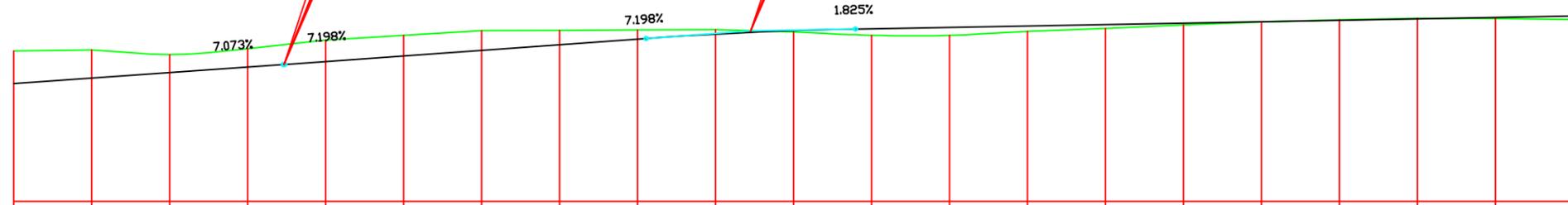
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PLANO DE COMPARACION		140																			140																			
P.K.		+600																			+800																			2+000
DISTANCIAS	AL ORIGEN	600.000	620.000	640.000	660.000	680.000	700.000	720.000	740.000	760.000	780.000	800.000	820.000	840.000	860.000	880.000	900.000	920.000	940.000	960.000	980.000	0.000																		
	PARCIALES	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000																	
ORDENADAS	RASANTE	174.237	176.555	178.873	181.192	183.510	185.829	188.147	190.465	192.711	194.589	196.090	197.505	198.919	200.334	201.749	203.163	204.578	205.992	207.407	208.822	210.236																		
	TERRENO	173.05	175.10	177.28	179.42	181.37	183.27	184.90	186.79	188.47	189.93	190.25	191.51	192.22	193.38	194.65	195.81	196.57	197.12	197.87	198.65	199.63																		
COTAS ROJAS	DESMONTE																	1.99	6.13	8.46	8.83	8.39																		
	TERRAPLEN	1.19	1.45	2.98.00	1.77	2.14	2.56	3.25	3.68	4.24	4.66	5.05.00	30.00	5.05.00	13.00	5.05.00	4.10	2.35	107.00		5.05.00	39.00																		
ACUERDOS VERTICALES									1+747.962 191.388			1+793.152 195.606																												
DIAGRAMA DE CURVATURAS		RECTA																																						
DIAGRAMA DE PERALTES		BD=2.00% BI=2.00%																																						

PK= 2+069.296  
 CV= 215.138  
 KV= 303.000  
 V = 0.001  
 Lv= 0.377  
 D = -0.000

PK= 2+189.029  
 CV= 223.755  
 KV= 1000.000  
 V = -0.054  
 Lv= 53.721  
 D = 0.361



PLANO DE COMPARACION		180
P.K.		2+000
DISTANCIAS	AL ORIGEN	0.000
	PARCIALES	20.000
ORDENADAS	RASANTE	210.236
	TERRENO	218.63
COTAS ROJAS	DESMONTE	8.39
	TERRAPLEN	5.05.00
ACUERDOS VERTICALES		2+069.108 2+069.485 215.124 215.151
DIAGRAMA DE CURVATURAS		RECTA
DIAGRAMA DE PERALTES	BORDE DERECHO	BD=2.00%
	BORDE IZQUIERDO	BI=2.00%



UNIVERSIDADE DA CORUÑA

Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

Firma:

Fecha:  
Junio 2017

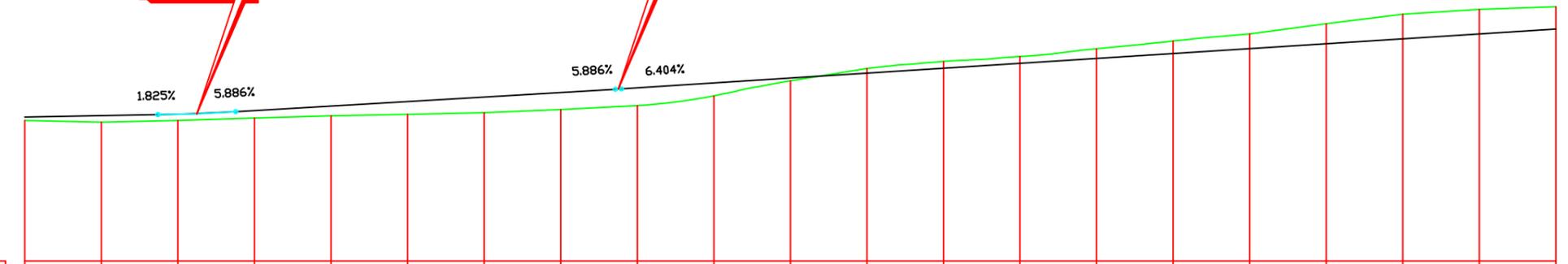
Título del  
plano:  
Perfiles longitudinales

Nº plano:  
3  
Nº Hoja:  
6

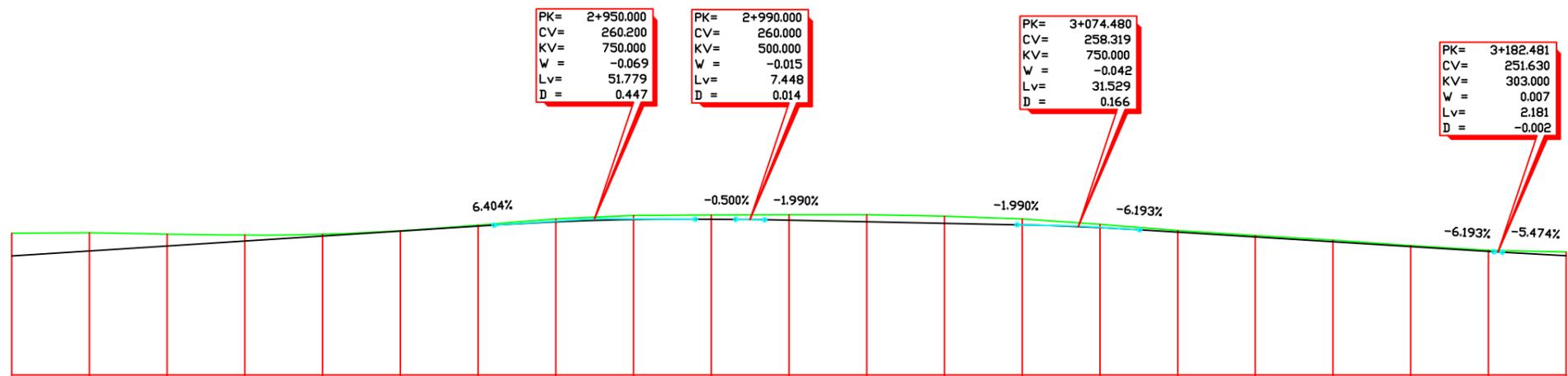
Escala:  
1/1500

PK= 2+444.943  
 CV= 228.427  
 KV= 500.000  
 W = 0.041  
 Lv= 20.305  
 D = -0.103

PK= 2+555.065  
 CV= 234.909  
 KV= 303.000  
 W = 0.005  
 Lv= 1.568  
 D = -0.001



PLANO DE COMPARACION		190	
P.K.		2+400	
DISTANCIAS	AL ORIGEN	400.000	800.000
	PARCIALES	20.000	20.000
ORDENADAS	RASANTE	227.606	250.594
	TERREND	226.69	256.45
COTAS ROJAS	DESMONTE		5.85
	TERRAPLEN	292.00	105.00
ACUERDOS VERTICALES		2+434.791 228.242 2+455.096 229.024 2+554.288 234.959 234.863	
DIAGRAMA DE CURVATURAS		RECTA R=40 RECTA R=40 RECTA	
DIAGRAMA DE PERALTES	BORDE DERECHO	BD 2.00%	BD 2.00%
	BORDE IZQUIERDO	BI 2.00%	BI 2.00%



PK= 2+950.000  
CV= 260.200  
KV= 750.000  
W = -0.069  
Lv= 51.779  
D = 0.447

PK= 2+990.000  
CV= 260.000  
KV= 500.000  
W = -0.015  
Lv= 7.448  
D = 0.014

PK= 3+074.480  
CV= 258.319  
KV= 750.000  
W = -0.042  
Lv= 31.529  
D = 0.166

PK= 3+182.481  
CV= 251.630  
KV= 303.000  
W = 0.007  
Lv= 2.181  
D = -0.002

PLANO DE COMPARACION		220																													
P.K.		2+800										3+000										3+200									
DISTANCIAS	AL ORIGEN	800.000	820.000	840.000	860.000	880.000	900.000	920.000	940.000	960.000	980.000	0.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000									
	PARCIALES	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000								
ORDENADAS	RASANTE	250.594	251.875	253.156	254.437	255.717	256.998	258.279	259.559	259.982	260.050	259.801	259.403	259.005	258.606	257.907	256.739	255.500	254.261	253.023	251.784	250.671									
	TERRENO	256.45	256.56	256.21	255.99	256.21	257.09	258.55	260.13	261.01	261.16	261.20	261.25	260.85	260.16	258.75	257.16	255.90	254.69	253.92	252.07	251.62									
COTAS ROJAS	DESMONTE	5.85	4.68	3.05	1.55	0.49	0.09	0.27	0.74	1.03	1.11	1.40	1.84	1.84	1.35	0.84	0.42	0.40	0.43	0.29	0.29	0.95									
	TERRAPLEN		5.005.00			114.00			5.005.00		63.00	5.005.00	13.00	5.005.00				157.00													
ACUERDOS VERTICALES								2+924.111 258.542			2+975.889 260.071	2+986.276 260.019	2+993.724 259.926			3+058.715 258.633			3+090.244 257.343			3+181.391 251.698	3+183.571 251.570								
DIAGRAMA DE CURVATURAS		RECTA																													
DIAGRAMA DE PERALTES		BORDE DERECHO ——— BORDE IZQUIERDO - - - -																													



UNIVERSIDADE DA CORUÑA

Proyecto: Parque eólico en Pantín

Autor: Emilio Ángel Serantes Carro

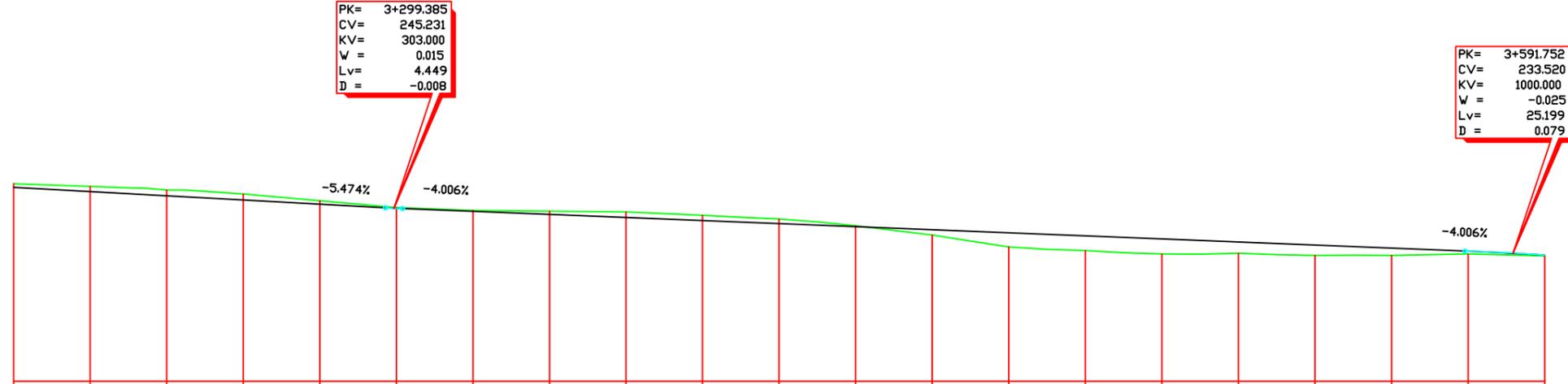
Firma:

Fecha: Junio 2017

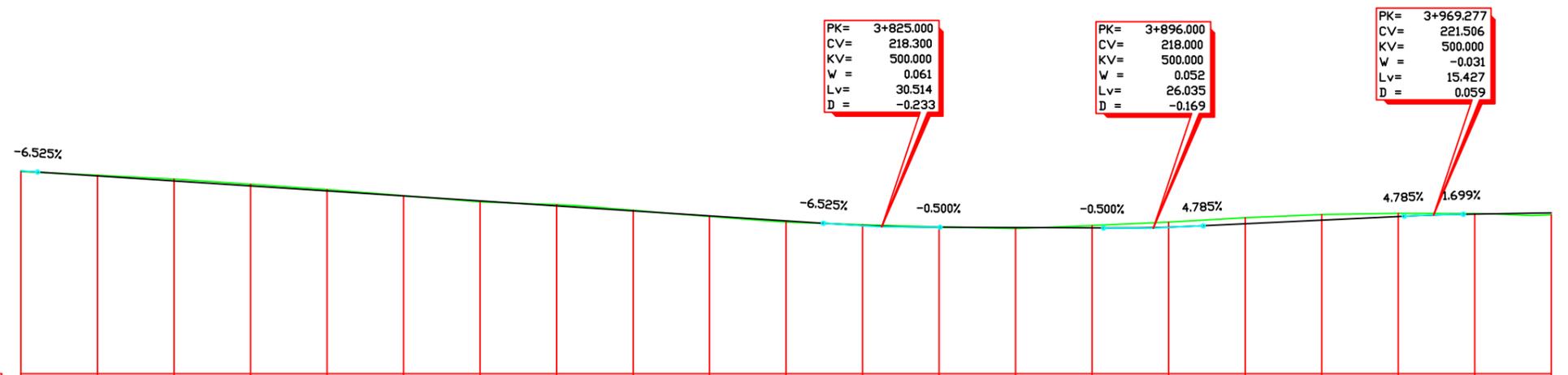
Título del plano: Perfiles longitudinales

Nº plano: 3  
Nº Hoja: 8

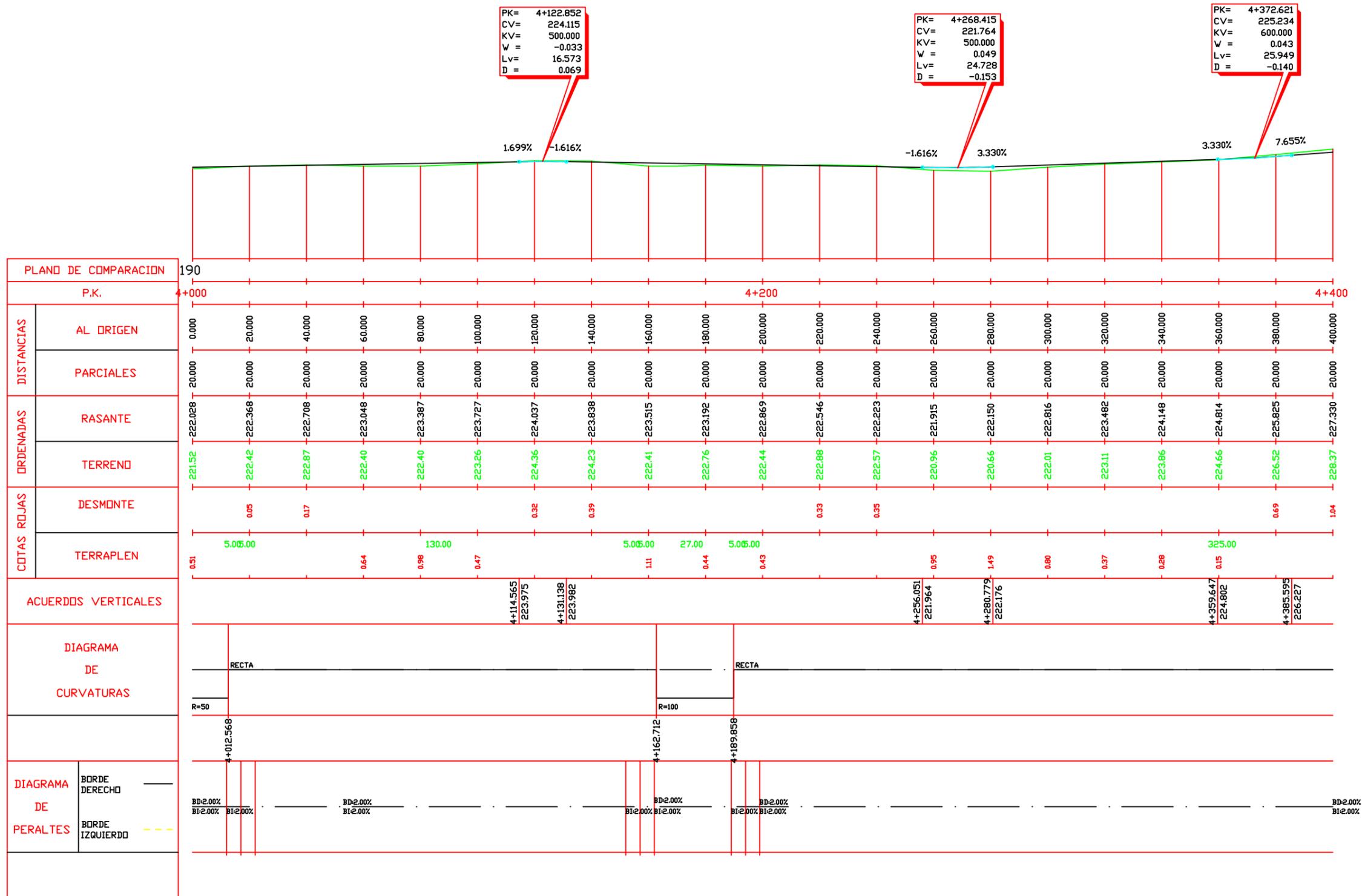
Escala: 1/1500



PLANO DE COMPARACION		200	
P.K.		3+200	
DISTANCIAS	AL ORIGEN	200.000	600.000
	PARCIALES	20.000	20.000
ORDENADAS	RASANTE	250.671	232.973
	TERRENO	251.62	232.78
COTAS ROJAS	DESMONTE	0.95	0.19
	TERRAPLEN	5.005.00	5.005.00
ACUERDOS VERTICALES		3+297.161 245.353 3+301.609 245.142 3+384.031 234.025 3+579.153 234.025	
DIAGRAMA DE CURVATURAS		RECTA R=50 RECTA R=125 RECTA	
DIAGRAMA DE PERALTES	BORDE DERECHO	BD=2.00%	BD=2.00%
	BORDE IZQUIERDO	BI=2.00%	BI=2.00%

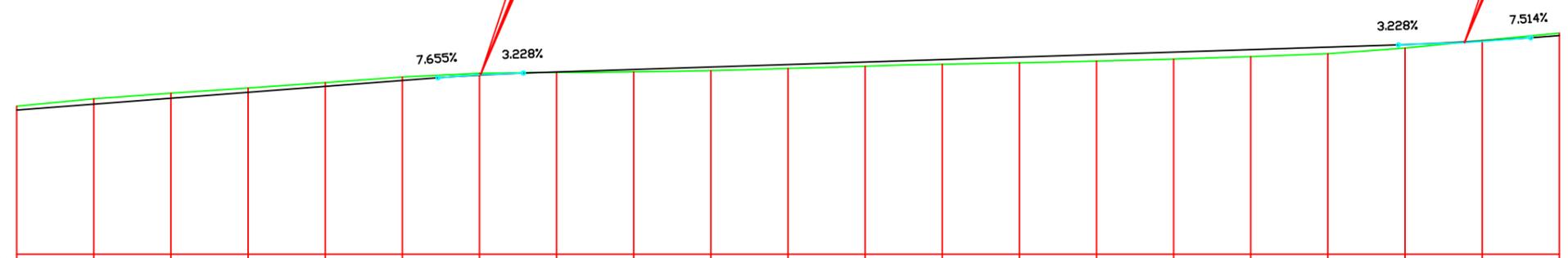


PLANO DE COMPARACION		180	
P.K.		3+600	
DISTANCIAS	AL ORIGEN	600.000	0.000
	PARCIALES	20.000	20.000
ORDENADAS	RASANTE	236.973	222.028
	TERRENO	232.78	221.52
COTAS ROJAS	DESMONTE	0.20	0.14
	TERRAPLEN	146.00	35.00
ACUERDOS VERTICALES		3+604.352 232.698	3+961.564 221.137
DIAGRAMA DE CURVATURAS		RECTA	RECTA
DIAGRAMA DE PERALTES		BD 2.00% BI 2.00%	BD 2.00% BI 2.00%



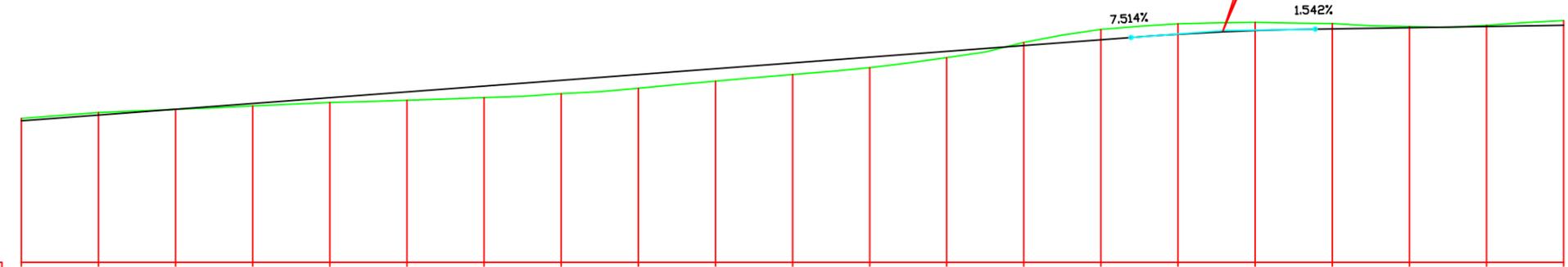
PK= 4+520.295  
 CV= 236.538  
 KV= 500.000  
 W = -0.044  
 Lv= 22.134  
 D = 0.122

PK= 4+775.445  
 CV= 244.775  
 KV= 800.000  
 W = 0.043  
 Lv= 34.287  
 D = -0.184



PLANO DE COMPARACION		190	
P.K.		4+400	
DISTANCIAS	AL ORIGEN	400.000	420.000
	PARCIALES	20.000	20.000
ORDENADAS	RASANTE	227.330	228.861
	TERRENO	228.37	230.22
COTAS ROJAS	DESMONTE	1.04	1.36
	TERRAPLEN		
ACUERDOS VERTICALES		4+509.228 235.691	4+531.362 236.896
DIAGRAMA DE CURVATURAS		R=130	
DIAGRAMA DE PERALTES		BD=2.00% BI=2.00%	

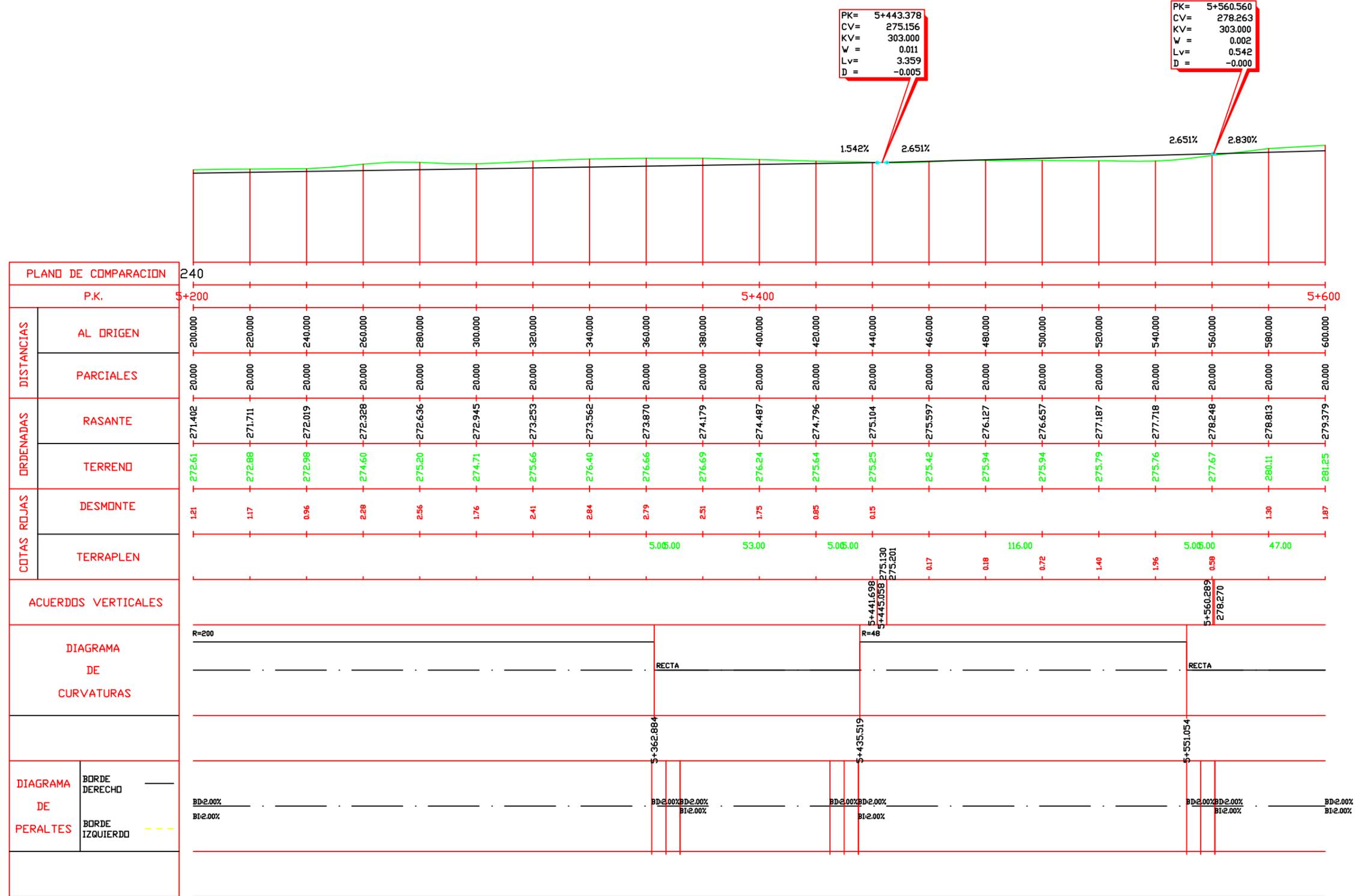
PK= 5+111.689  
 CV= 270.040  
 KV= 800.000  
 W = -0.060  
 Lv= 47.773  
 D = 0.357



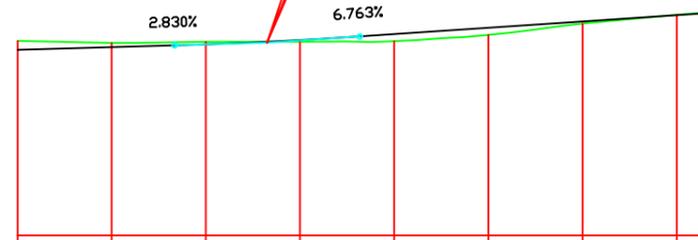
PLANO DE COMPARACION		210																				
P.K.		+800																				
DISTANCIAS	AL ORIGEN	800.000	820.000	840.000	860.000	880.000	900.000	920.000	940.000	960.000	980.000	0.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000
	PARCIALES	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000
ORDENADAS	RASANTE	246.620	248.123	249.625	251.128	252.631	254.134	255.637	257.139	258.642	260.145	261.648	263.151	264.653	266.156	267.659	269.069	270.017	270.477	270.785	271.094	271.402
	TERRENO	247.28	248.79	249.62	250.50	251.39	251.99	252.69	253.66	255.08	256.95	258.66	260.41	263.00	266.94	270.32	271.76	272.14	271.83	271.09	271.38	272.61
COTAS ROJAS	DESMONTE	0.66	0.67												0.78	2.67	2.69	2.13	1.35	0.30	0.29	1.21
	TERRAPLEN		5.05.00	0.00	0.63	1.24	2.15	2.95	3.48	3.57	3.20	2.99	2.74	1.66				427.00				
ACUERDOS VERTICALES		<div style="display: flex; justify-content: space-between;"> <div>5+087.803 268.245</div> <div>5+135.575 270.409</div> </div>																				
DIAGRAMA DE CURVATURAS		<div style="display: flex; justify-content: space-between;"> <div>R=100</div> <div>R=200</div> </div>																				
DIAGRAMA DE PERALTES		<div style="display: flex; justify-content: space-between;"> <div>BD:2.00% BI:2.00%</div> <div>BD:2.00% BI:2.00%</div> <div>BD:2.00% BI:2.00%</div> <div>BD:2.00% BI:2.00%</div> <div>BD:2.00% BI:2.00%</div> </div>																				

PK= 5+443.378  
 CV= 275.156  
 KV= 303.000  
 W = 0.011  
 LV= 3.359  
 D = -0.005

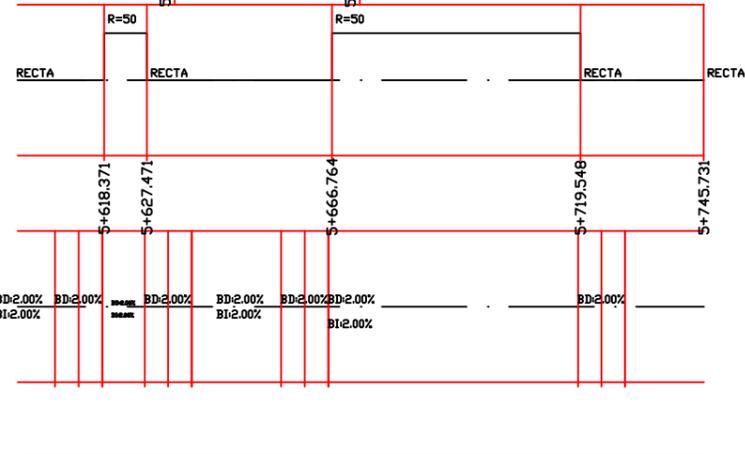
PK= 5+560.560  
 CV= 278.263  
 KV= 303.000  
 W = 0.002  
 LV= 0.542  
 D = -0.000



PK= 5+653.003  
 CV= 280.879  
 KV= 1000.000  
 V = 0.039  
 Lv= 39.325  
 D = -0.193

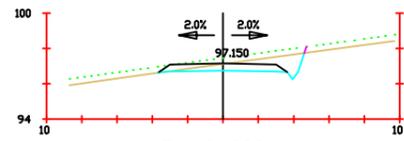


PLANO DE COMPARACION		240
P.K.		5+600
DISTANCIAS	AL ORIGEN	600.000
	PARCIALES	20.000
ORDENADAS	RASANTE	279.379
	TERRENO	281.25
COTAS ROJAS	DESMONTE	1.87
	TERRAPLEN	5.005.00
ACUERDOS VERTICALES		5+633.340 280.323
DIAGRAMA DE CURVATURAS		R=50
DIAGRAMA DE PERALTES		5+618.371



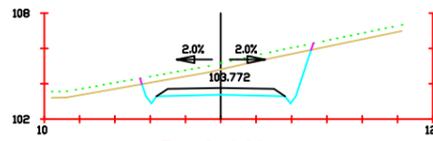


## **4. PERFILES TRANSVERSALES**



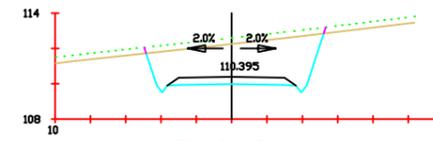
**Pk=0+000**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 3.82 m<sup>2</sup>.  
 S. TERRAPLEN = 0.01 m<sup>2</sup>.  
 S. VEGETAL = 2.92 m<sup>2</sup>.



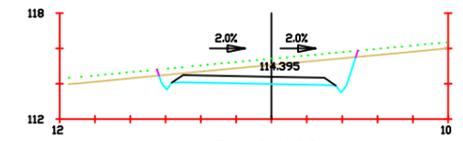
**Pk=0+060**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 14.27 m<sup>2</sup>.  
 S. VEGETAL = 3.40 m<sup>2</sup>.



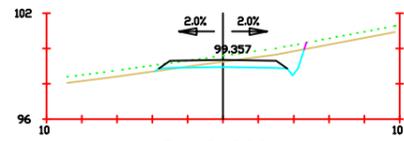
**Pk=0+120**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 21.66 m<sup>2</sup>.  
 S. VEGETAL = 3.56 m<sup>2</sup>.



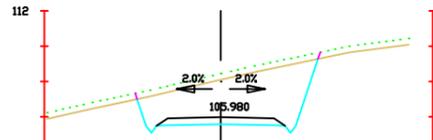
**Pk=0+160**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 10.80 m<sup>2</sup>.  
 S. VEGETAL = 3.94 m<sup>2</sup>.



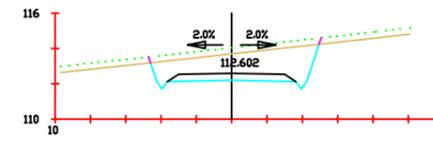
**Pk=0+020**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 3.34 m<sup>2</sup>.  
 S. TERRAPLEN = 0.09 m<sup>2</sup>.  
 S. VEGETAL = 2.97 m<sup>2</sup>.



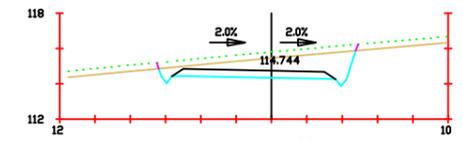
**Pk=0+080**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 24.53 m<sup>2</sup>.  
 S. VEGETAL = 3.63 m<sup>2</sup>.



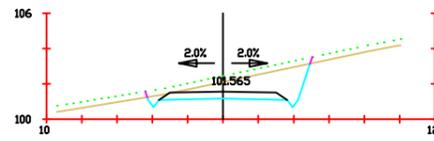
**Pk=0+140**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 14.17 m<sup>2</sup>.  
 S. VEGETAL = 3.38 m<sup>2</sup>.



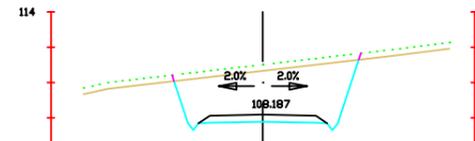
**Pk=0+165**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 11.18 m<sup>2</sup>.  
 S. VEGETAL = 3.95 m<sup>2</sup>.



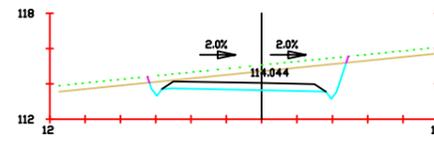
**Pk=0+040**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 9.23 m<sup>2</sup>.  
 S. VEGETAL = 3.27 m<sup>2</sup>.



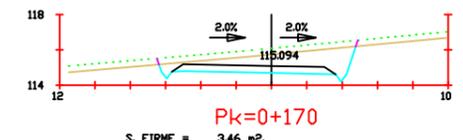
**Pk=0+100**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 28.06 m<sup>2</sup>.  
 S. VEGETAL = 3.70 m<sup>2</sup>.



**Pk=0+155**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 10.70 m<sup>2</sup>.  
 S. VEGETAL = 3.94 m<sup>2</sup>.



**Pk=0+170**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 10.57 m<sup>2</sup>.  
 S. VEGETAL = 3.94 m<sup>2</sup>.



Proyecto:  
 Parque eólico en  
 Pantín

Autor:  
 Emilio Ángel  
 Serantes Carro

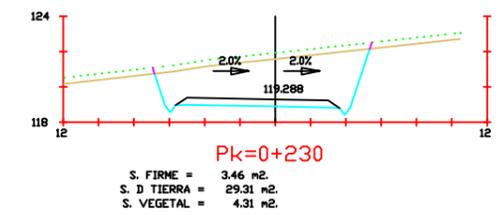
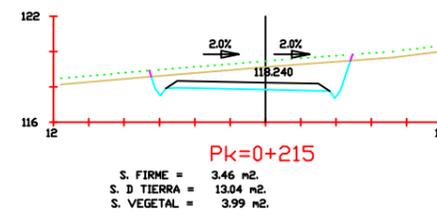
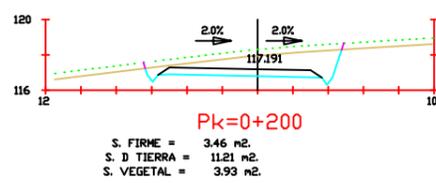
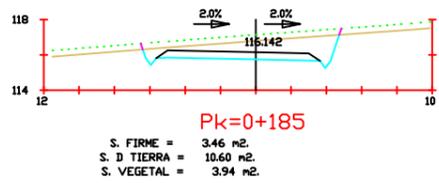
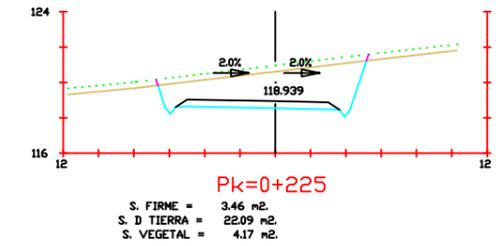
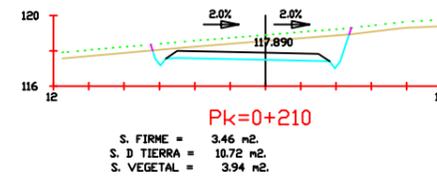
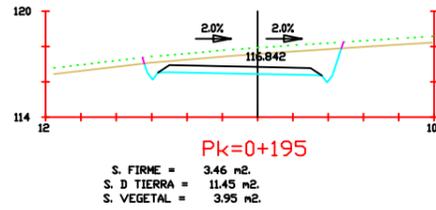
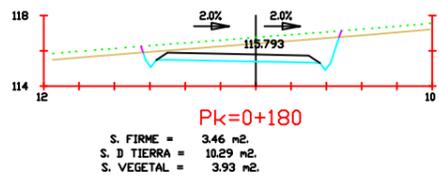
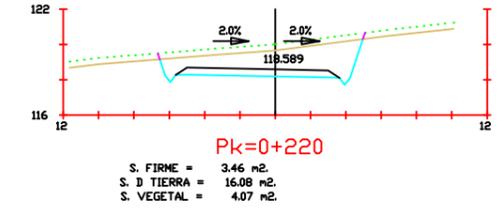
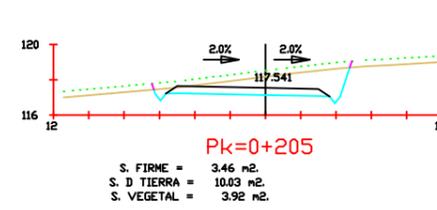
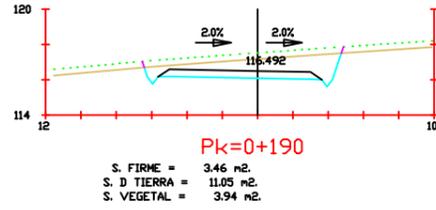
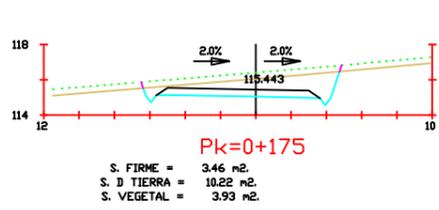
Firma:

Fecha:  
 Junio 2017

Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 1

Escala:  
 1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

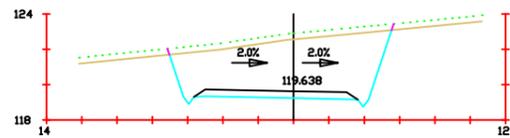
Firma:

Fecha:  
Junio 2017

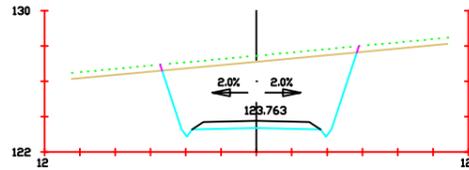
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº Hoja:  
2

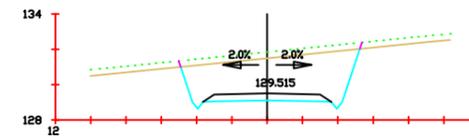
Escala:  
1/200



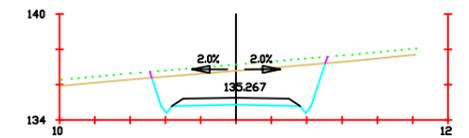
**Pk=0+235**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 36.66 m<sup>2</sup>.  
 S. VEGETAL = 4.44 m<sup>2</sup>.



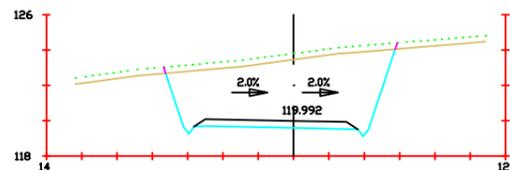
**Pk=0+280**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 37.28 m<sup>2</sup>.  
 S. VEGETAL = 3.90 m<sup>2</sup>.



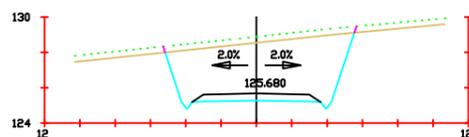
**Pk=0+340**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 22.98 m<sup>2</sup>.  
 S. VEGETAL = 3.59 m<sup>2</sup>.



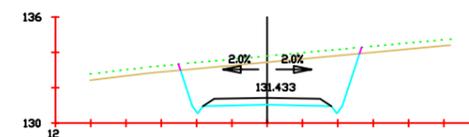
**Pk=0+400**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 18.34 m<sup>2</sup>.  
 S. VEGETAL = 3.48 m<sup>2</sup>.



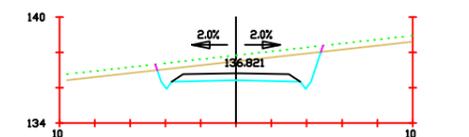
**Pk=0+240**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 44.27 m<sup>2</sup>.  
 S. VEGETAL = 4.59 m<sup>2</sup>.



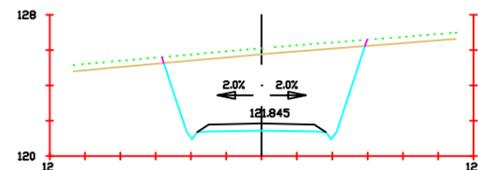
**Pk=0+300**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 32.08 m<sup>2</sup>.  
 S. VEGETAL = 3.79 m<sup>2</sup>.



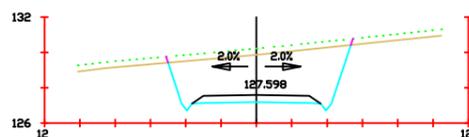
**Pk=0+360**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 23.26 m<sup>2</sup>.  
 S. VEGETAL = 3.59 m<sup>2</sup>.



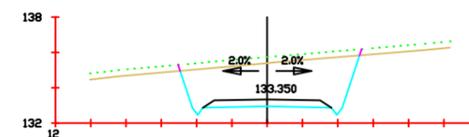
**Pk=0+420**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 10.19 m<sup>2</sup>.  
 S. VEGETAL = 3.28 m<sup>2</sup>.



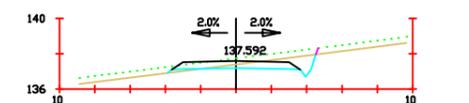
**Pk=0+260**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 43.57 m<sup>2</sup>.  
 S. VEGETAL = 4.03 m<sup>2</sup>.



**Pk=0+320**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 26.01 m<sup>2</sup>.  
 S. VEGETAL = 3.66 m<sup>2</sup>.



**Pk=0+380**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 23.47 m<sup>2</sup>.  
 S. VEGETAL = 3.60 m<sup>2</sup>.



**Pk=0+440**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 2.61 m<sup>2</sup>.  
 S. TERRAPLEN = 0.17 m<sup>2</sup>.  
 S. VEGETAL = 2.96 m<sup>2</sup>.



Proyecto:  
 Parque eólico en  
 Pantín

Autor:  
 Emilio Ángel  
 Serantes Carro

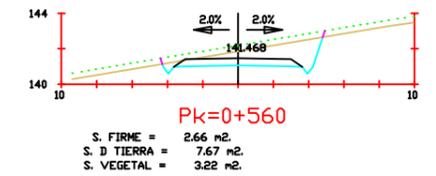
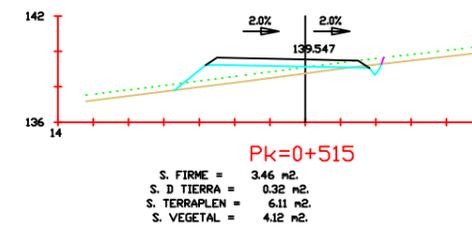
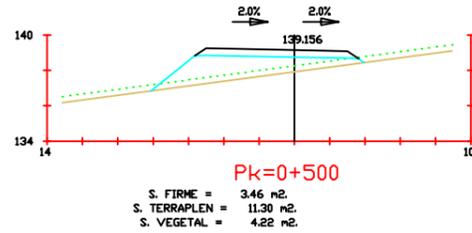
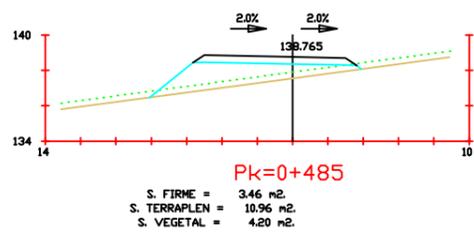
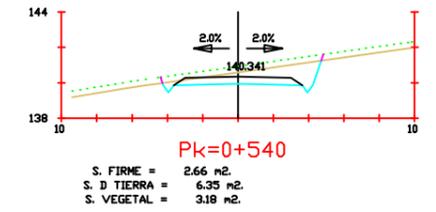
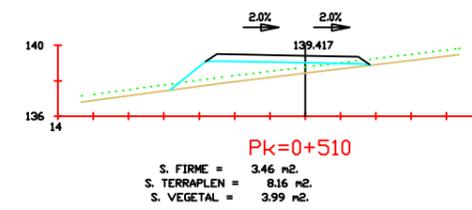
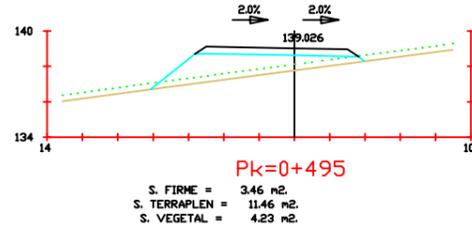
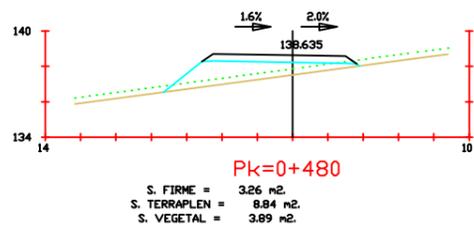
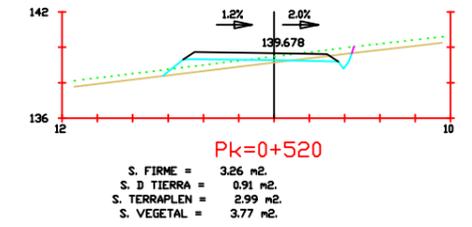
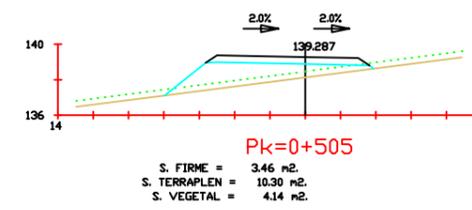
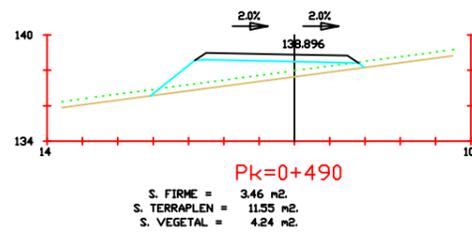
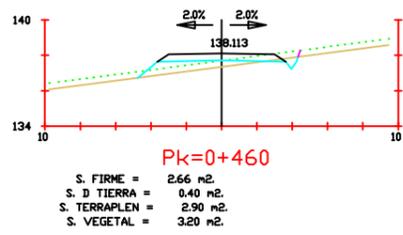
Firma:

Fecha:  
 Junio 2017

Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº Hoja:  
 3

Escala:  
 1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

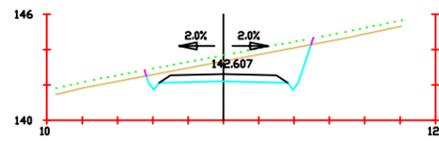
Firma:

Fecha:  
Junio 2017

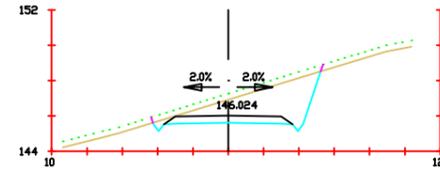
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
4

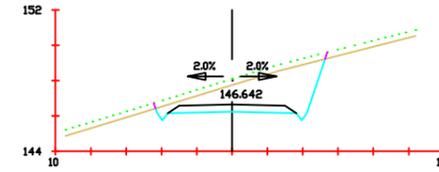
Escala:  
1/200



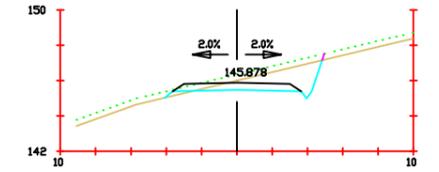
**Pk=0+580**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 10.99 m<sup>2</sup>.  
 S. VEGETAL = 3.31 m<sup>2</sup>.



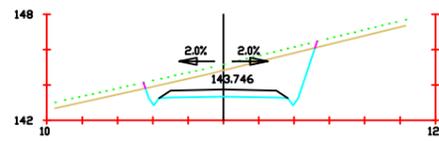
**Pk=0+640**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 12.99 m<sup>2</sup>.  
 S. VEGETAL = 3.37 m<sup>2</sup>.



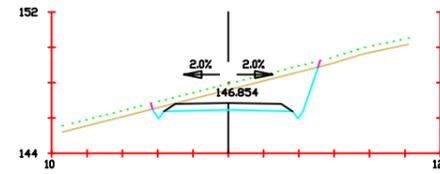
**Pk=0+700**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 14.76 m<sup>2</sup>.  
 S. VEGETAL = 3.40 m<sup>2</sup>.



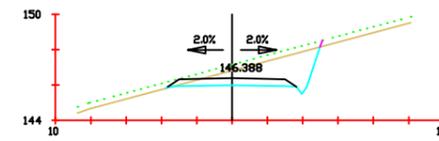
**Pk=0+760**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 5.75 m<sup>2</sup>.  
 S. TERRAPLEN = 0.22 m<sup>2</sup>.  
 S. VEGETAL = 3.14 m<sup>2</sup>.



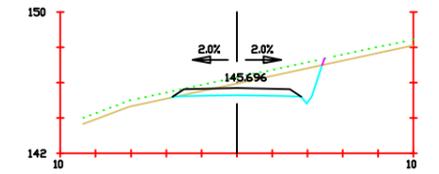
**Pk=0+600**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 14.35 m<sup>2</sup>.  
 S. VEGETAL = 3.40 m<sup>2</sup>.



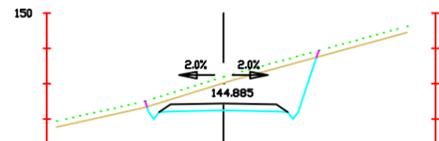
**Pk=0+660**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 11.21 m<sup>2</sup>.  
 S. VEGETAL = 3.32 m<sup>2</sup>.



**Pk=0+720**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 8.33 m<sup>2</sup>.  
 S. TERRAPLEN = 0.01 m<sup>2</sup>.  
 S. VEGETAL = 3.08 m<sup>2</sup>.



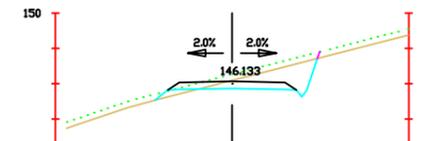
**Pk=0+780**  
 S. FIRME = 2.65 m<sup>2</sup>.  
 S. D TIERRA = 6.64 m<sup>2</sup>.  
 S. TERRAPLEN = 0.00 m<sup>2</sup>.  
 S. VEGETAL = 3.01 m<sup>2</sup>.



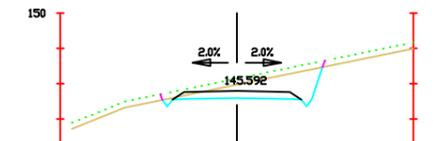
**Pk=0+620**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 14.98 m<sup>2</sup>.  
 S. VEGETAL = 3.40 m<sup>2</sup>.



**Pk=0+680**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 12.79 m<sup>2</sup>.  
 S. VEGETAL = 3.36 m<sup>2</sup>.



**Pk=0+740**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 5.45 m<sup>2</sup>.  
 S. TERRAPLEN = 0.49 m<sup>2</sup>.  
 S. VEGETAL = 3.24 m<sup>2</sup>.



**Pk=0+800**  
 S. FIRME = 2.65 m<sup>2</sup>.  
 S. D TIERRA = 7.49 m<sup>2</sup>.  
 S. VEGETAL = 3.22 m<sup>2</sup>.



Proyecto:  
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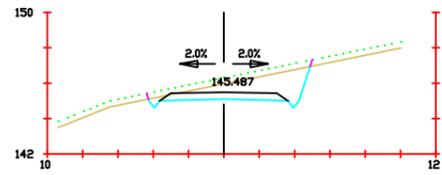
Firma:

Fecha:  
Junio 2017

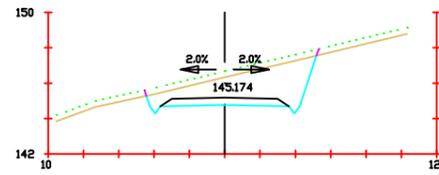
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
5

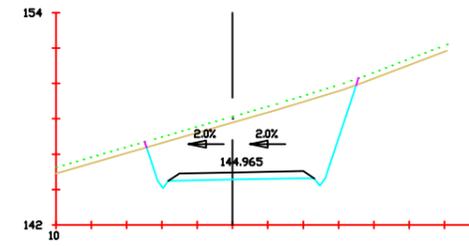
Escala:  
1/200



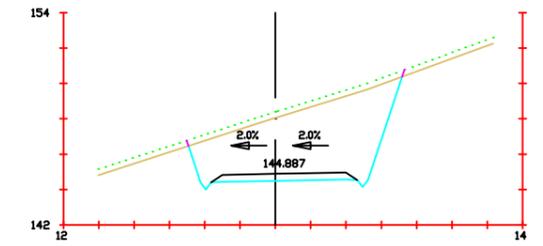
**Pk=0+820**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 8.59 m<sup>2</sup>.  
 S. VEGETAL = 3.25 m<sup>2</sup>.



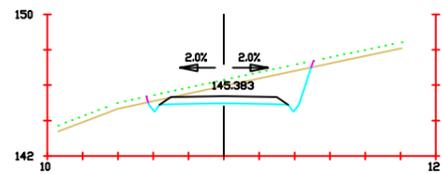
**Pk=0+880**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 15.12 m<sup>2</sup>.  
 S. VEGETAL = 3.41 m<sup>2</sup>.



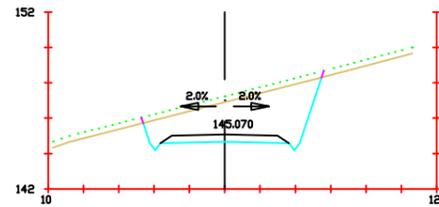
**Pk=0+920**  
 S. FIRME = 3.06 m<sup>2</sup>.  
 S. D TIERRA = 36.89 m<sup>2</sup>.  
 S. VEGETAL = 4.20 m<sup>2</sup>.



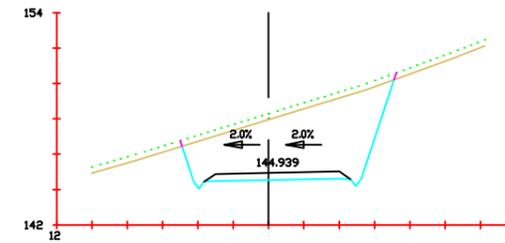
**Pk=0+935**  
 S. FIRME = 3.06 m<sup>2</sup>.  
 S. D TIERRA = 41.08 m<sup>2</sup>.  
 S. VEGETAL = 4.28 m<sup>2</sup>.



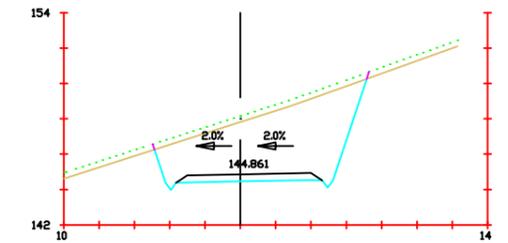
**Pk=0+840**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 9.52 m<sup>2</sup>.  
 S. VEGETAL = 3.27 m<sup>2</sup>.



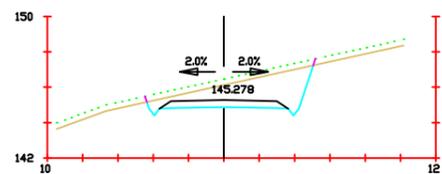
**Pk=0+900**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 21.85 m<sup>2</sup>.  
 S. VEGETAL = 3.57 m<sup>2</sup>.



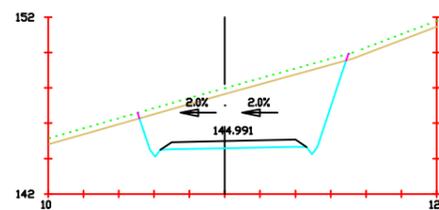
**Pk=0+925**  
 S. FIRME = 3.06 m<sup>2</sup>.  
 S. D TIERRA = 39.31 m<sup>2</sup>.  
 S. VEGETAL = 4.25 m<sup>2</sup>.



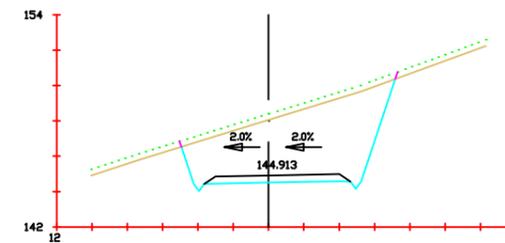
**Pk=0+940**  
 S. FIRME = 3.06 m<sup>2</sup>.  
 S. D TIERRA = 39.09 m<sup>2</sup>.  
 S. VEGETAL = 4.25 m<sup>2</sup>.



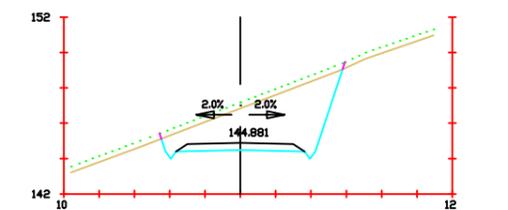
**Pk=0+860**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 12.09 m<sup>2</sup>.  
 S. VEGETAL = 3.33 m<sup>2</sup>.



**Pk=0+915**  
 S. FIRME = 3.06 m<sup>2</sup>.  
 S. D TIERRA = 34.61 m<sup>2</sup>.  
 S. VEGETAL = 4.14 m<sup>2</sup>.



**Pk=0+930**  
 S. FIRME = 3.06 m<sup>2</sup>.  
 S. D TIERRA = 40.94 m<sup>2</sup>.  
 S. VEGETAL = 4.28 m<sup>2</sup>.



**Pk=0+960**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 23.79 m<sup>2</sup>.  
 S. VEGETAL = 3.64 m<sup>2</sup>.



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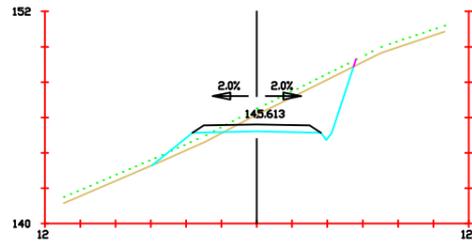
Firma:

Fecha:  
 Junio 2017

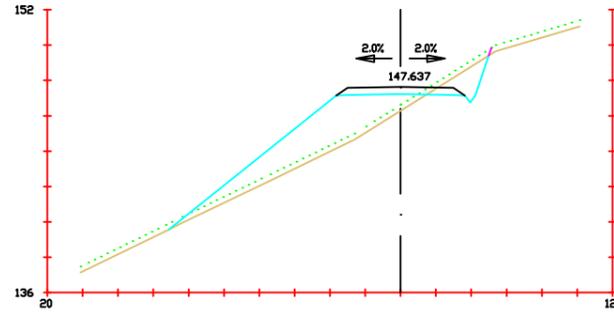
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 6

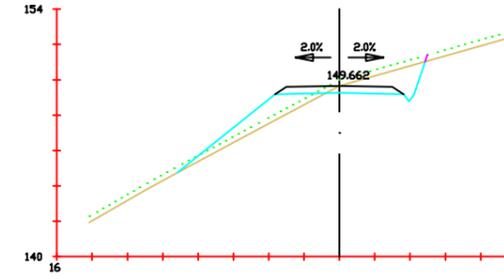
Escala:  
 1/200



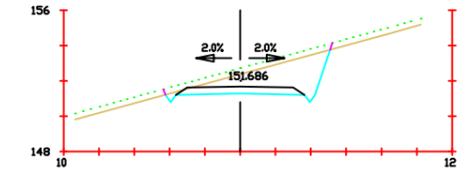
**Pk=0+980**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 11.58 m<sup>2</sup>.  
 S. TERRAPLEN = 1.70 m<sup>2</sup>.  
 S. VEGETAL = 4.02 m<sup>2</sup>.



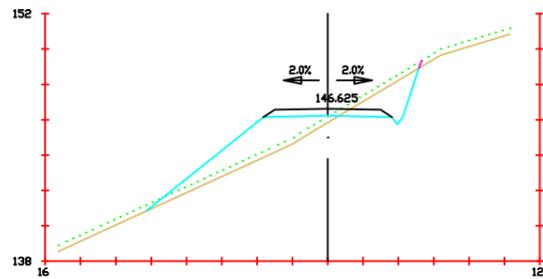
**Pk=1+020**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 3.26 m<sup>2</sup>.  
 S. TERRAPLEN = 22.29 m<sup>2</sup>.  
 S. VEGETAL = 6.36 m<sup>2</sup>.



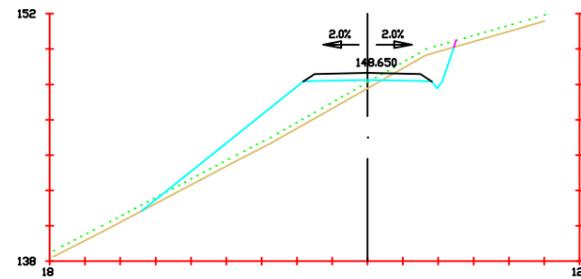
**Pk=1+060**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 5.16 m<sup>2</sup>.  
 S. TERRAPLEN = 6.16 m<sup>2</sup>.  
 S. VEGETAL = 4.93 m<sup>2</sup>.



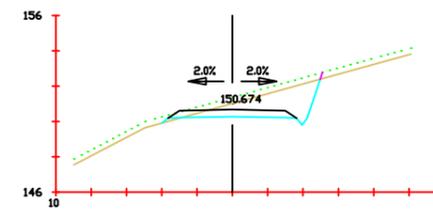
**Pk=1+100**  
 S. FIRME = 2.65 m<sup>2</sup>.  
 S. D TIERRA = 10.83 m<sup>2</sup>.  
 S. VEGETAL = 3.31 m<sup>2</sup>.



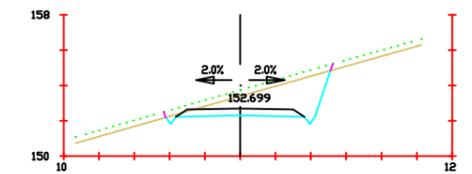
**Pk=1+000**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 5.17 m<sup>2</sup>.  
 S. TERRAPLEN = 12.70 m<sup>2</sup>.  
 S. VEGETAL = 5.42 m<sup>2</sup>.



**Pk=1+040**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 4.03 m<sup>2</sup>.  
 S. TERRAPLEN = 16.97 m<sup>2</sup>.  
 S. VEGETAL = 6.21 m<sup>2</sup>.



**Pk=1+080**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 7.75 m<sup>2</sup>.  
 S. TERRAPLEN = 0.10 m<sup>2</sup>.  
 S. VEGETAL = 3.15 m<sup>2</sup>.



**Pk=1+120**  
 S. FIRME = 2.65 m<sup>2</sup>.  
 S. D TIERRA = 10.93 m<sup>2</sup>.  
 S. VEGETAL = 3.31 m<sup>2</sup>.



Proyecto:  
 Parque eólico en  
 Pantín

Autor:  
 Emilio Ángel  
 Serantes Carro

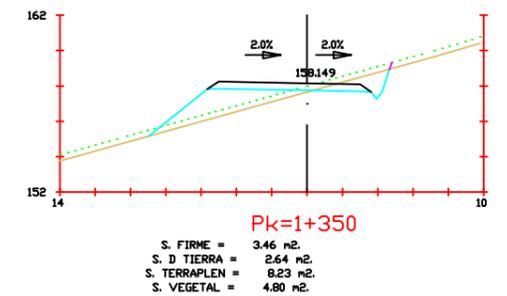
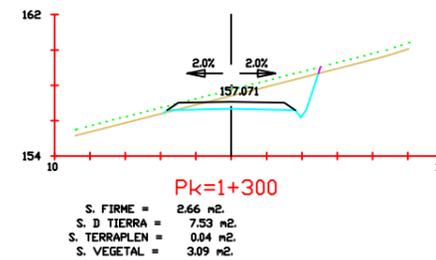
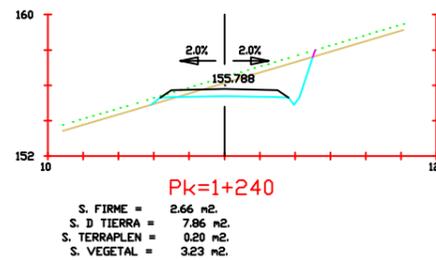
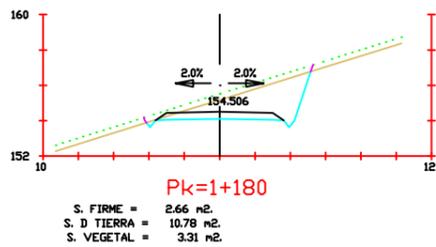
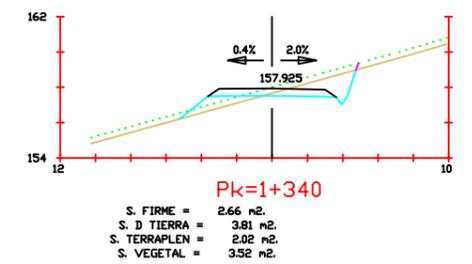
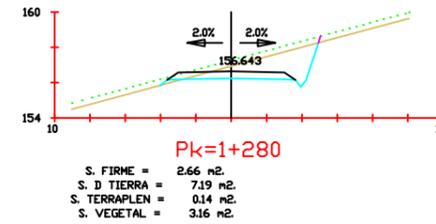
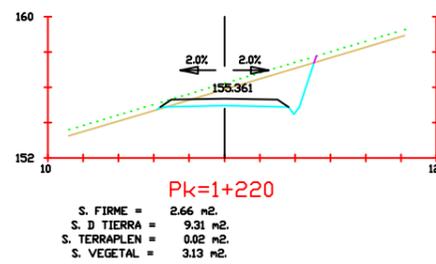
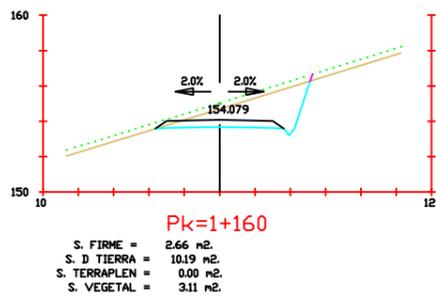
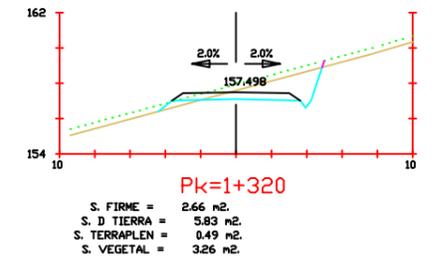
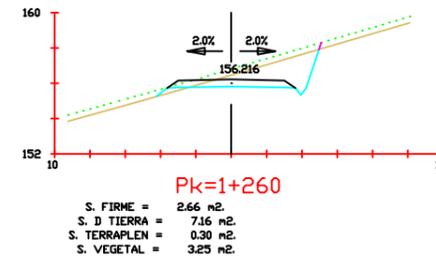
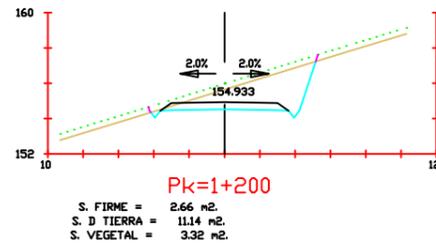
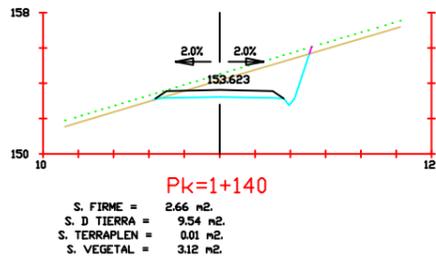
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Fecha:  
 Junio 2017

Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 7

Escala:  
 1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
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Serantes Carro

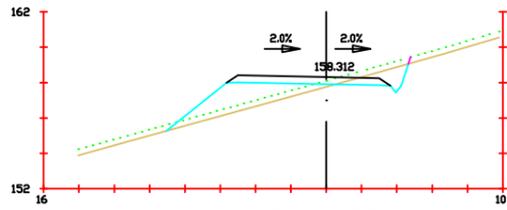
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Junio 2017

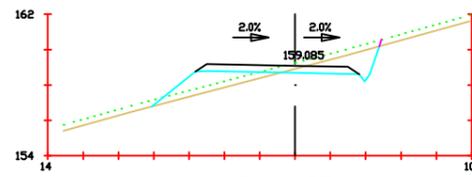
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plano:  
Perfiles transversales

Nº plano:  
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Nº Hoja:  
8

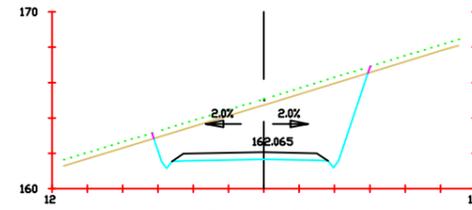
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1/200



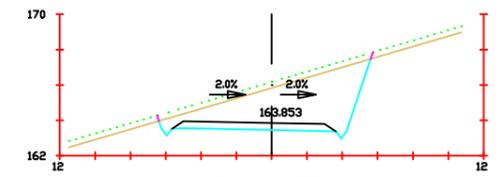
**Pk=1+355**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.43 m<sup>2</sup>.  
 S. TERRAPLEN = 8.62 m<sup>2</sup>.  
 S. VEGETAL = 4.81 m<sup>2</sup>.



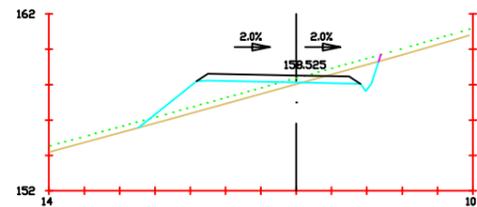
**Pk=1+370**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.08 m<sup>2</sup>.  
 S. TERRAPLEN = 4.96 m<sup>2</sup>.  
 S. VEGETAL = 4.53 m<sup>2</sup>.



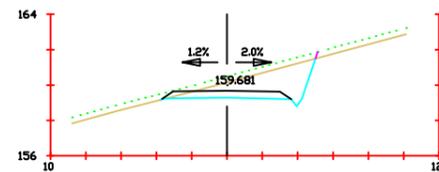
**Pk=1+420**  
 S. FIRME = 3.28 m<sup>2</sup>.  
 S. D TIERRA = 33.14 m<sup>2</sup>.  
 S. VEGETAL = 4.28 m<sup>2</sup>.



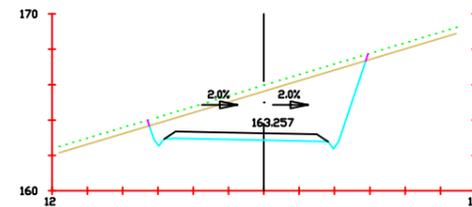
**Pk=1+450**  
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 S. D TIERRA = 24.44 m<sup>2</sup>.  
 S. VEGETAL = 4.24 m<sup>2</sup>.



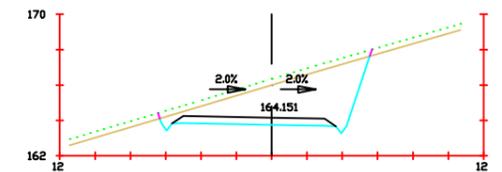
**Pk=1+360**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.62 m<sup>2</sup>.  
 S. TERRAPLEN = 8.18 m<sup>2</sup>.  
 S. VEGETAL = 4.79 m<sup>2</sup>.



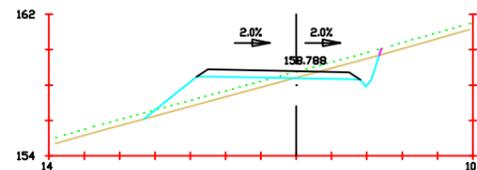
**Pk=1+380**  
 S. FIRME = 2.67 m<sup>2</sup>.  
 S. D TIERRA = 8.65 m<sup>2</sup>.  
 S. TERRAPLEN = 0.01 m<sup>2</sup>.  
 S. VEGETAL = 3.09 m<sup>2</sup>.



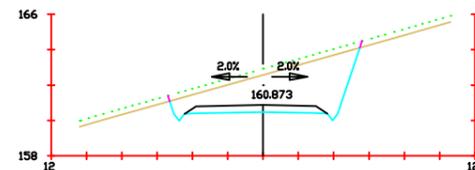
**Pk=1+440**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 29.14 m<sup>2</sup>.  
 S. VEGETAL = 4.33 m<sup>2</sup>.



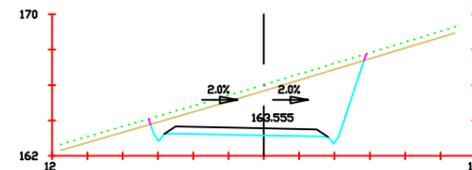
**Pk=1+455**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 22.82 m<sup>2</sup>.  
 S. VEGETAL = 4.20 m<sup>2</sup>.



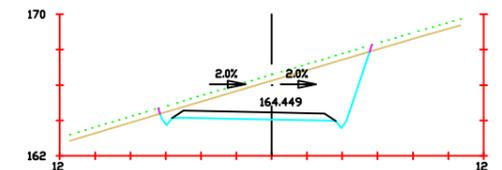
**Pk=1+365**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.11 m<sup>2</sup>.  
 S. TERRAPLEN = 6.84 m<sup>2</sup>.  
 S. VEGETAL = 4.68 m<sup>2</sup>.



**Pk=1+400**  
 S. FIRME = 2.98 m<sup>2</sup>.  
 S. D TIERRA = 21.28 m<sup>2</sup>.  
 S. VEGETAL = 3.81 m<sup>2</sup>.



**Pk=1+445**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 26.21 m<sup>2</sup>.  
 S. VEGETAL = 4.27 m<sup>2</sup>.



**Pk=1+460**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 22.31 m<sup>2</sup>.  
 S. VEGETAL = 4.20 m<sup>2</sup>.



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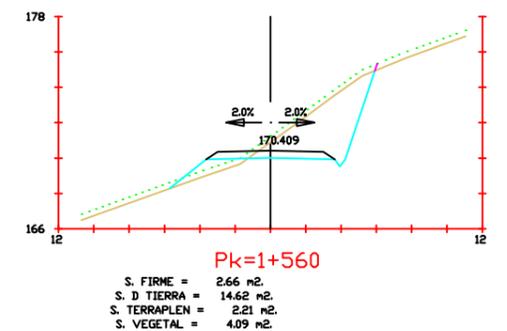
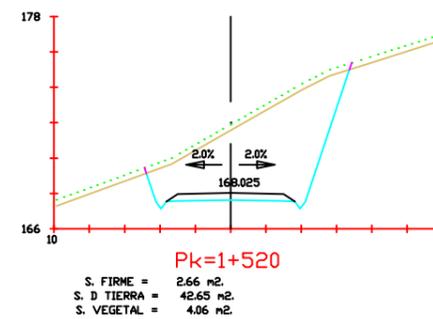
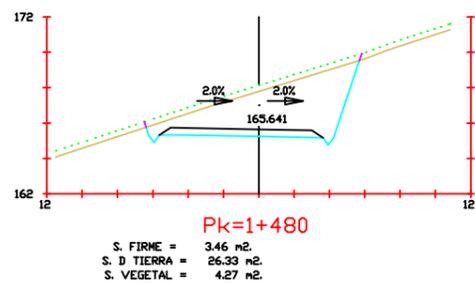
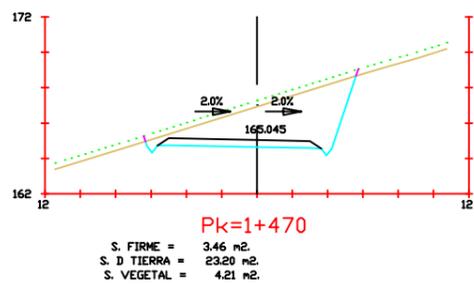
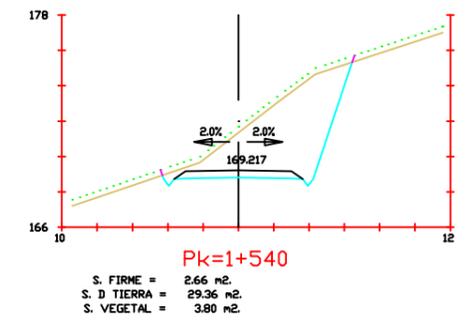
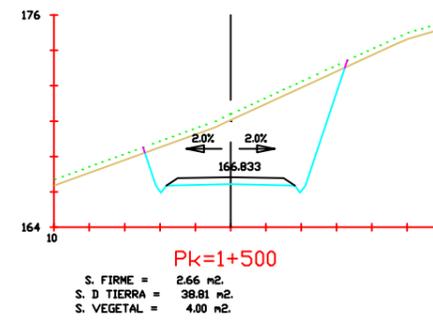
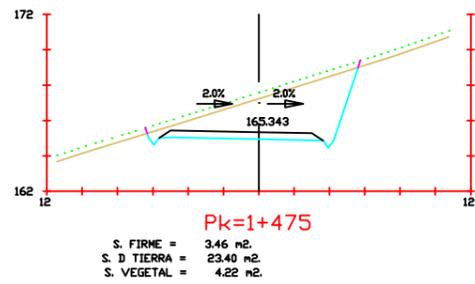
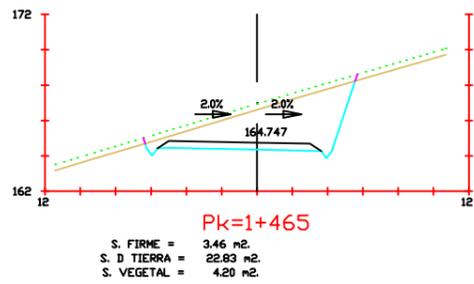
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Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº Hoja:  
9

Escala:  
1/200



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Parque eólico en  
Pantín

Autor:  
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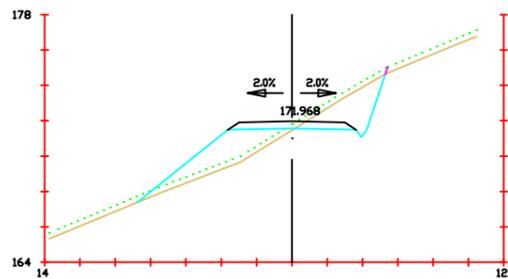
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Fecha:  
Junio 2017

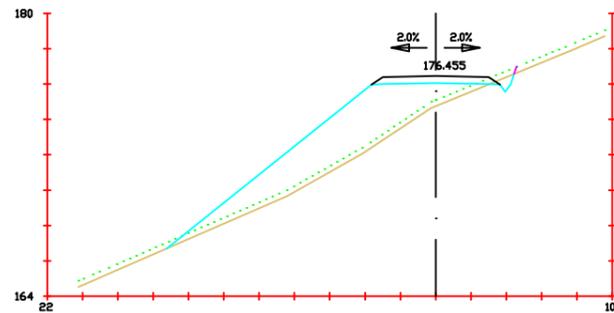
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº Hoja:  
10

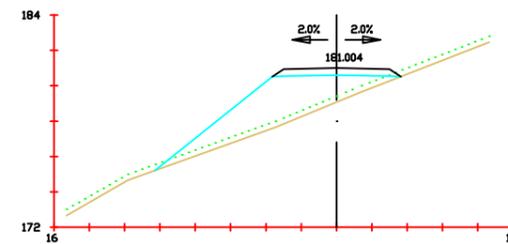
Escala:  
1/200



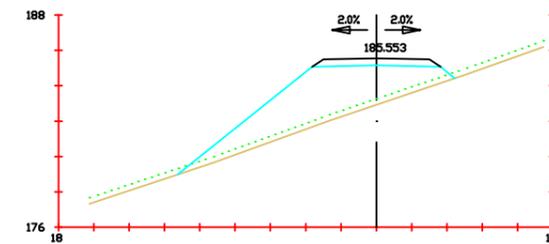
**Pk=1+580**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 6.75 m<sup>2</sup>.  
 S. TERRAPLEN = 9.58 m<sup>2</sup>.  
 S. VEGETAL = 4.94 m<sup>2</sup>.



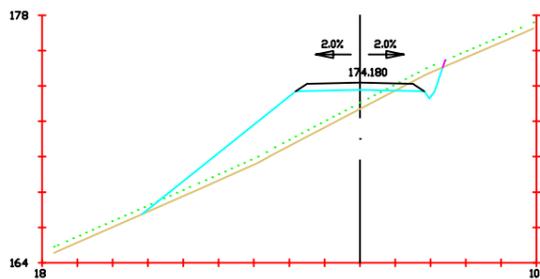
**Pk=1+620**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 0.49 m<sup>2</sup>.  
 S. TERRAPLEN = 33.82 m<sup>2</sup>.  
 S. VEGETAL = 6.91 m<sup>2</sup>.



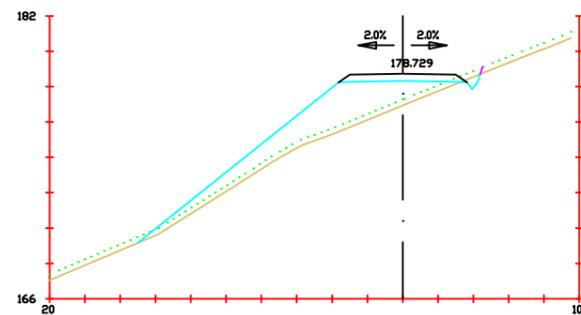
**Pk=1+660**  
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 S. TERRAPLEN = 20.73 m<sup>2</sup>.  
 S. VEGETAL = 4.88 m<sup>2</sup>.



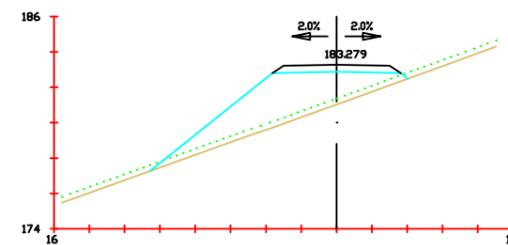
**Pk=1+700**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 29.54 m<sup>2</sup>.  
 S. VEGETAL = 5.50 m<sup>2</sup>.



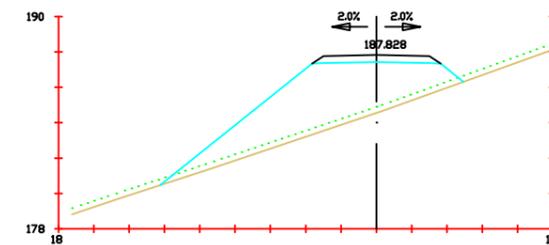
**Pk=1+600**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 1.74 m<sup>2</sup>.  
 S. TERRAPLEN = 21.58 m<sup>2</sup>.  
 S. VEGETAL = 5.98 m<sup>2</sup>.



**Pk=1+640**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 0.35 m<sup>2</sup>.  
 S. TERRAPLEN = 24.33 m<sup>2</sup>.  
 S. VEGETAL = 6.81 m<sup>2</sup>.



**Pk=1+680**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 23.89 m<sup>2</sup>.  
 S. VEGETAL = 5.10 m<sup>2</sup>.



**Pk=1+720**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 38.84 m<sup>2</sup>.  
 S. VEGETAL = 6.01 m<sup>2</sup>.



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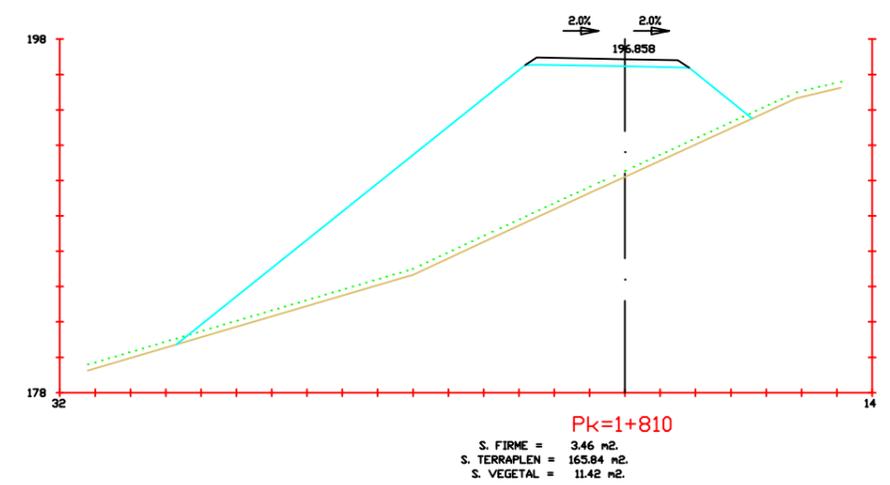
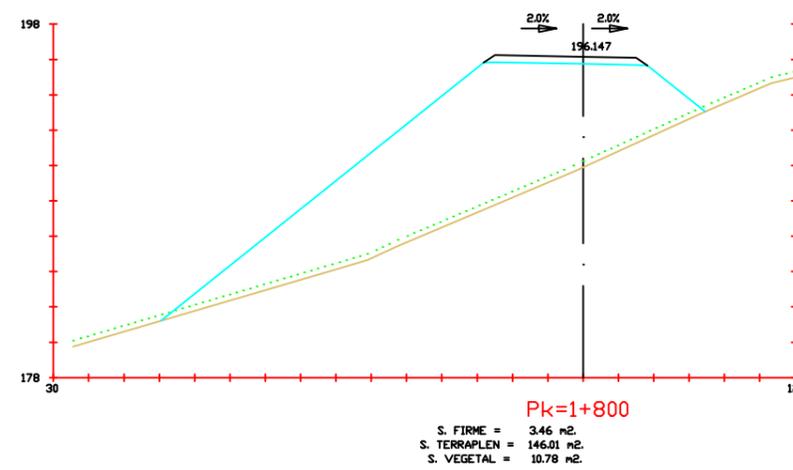
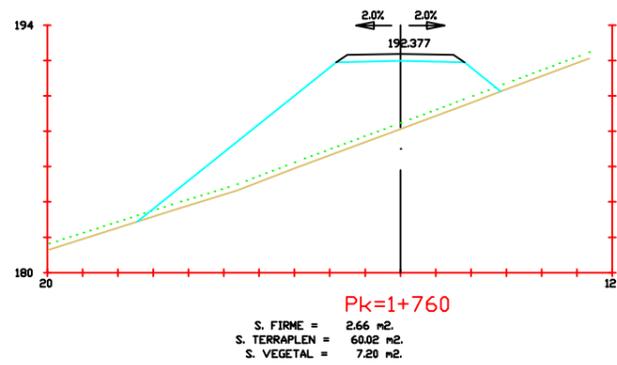
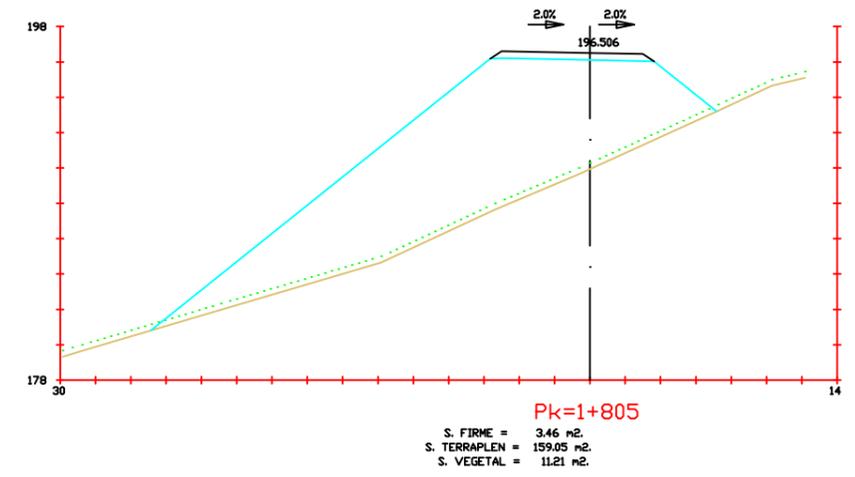
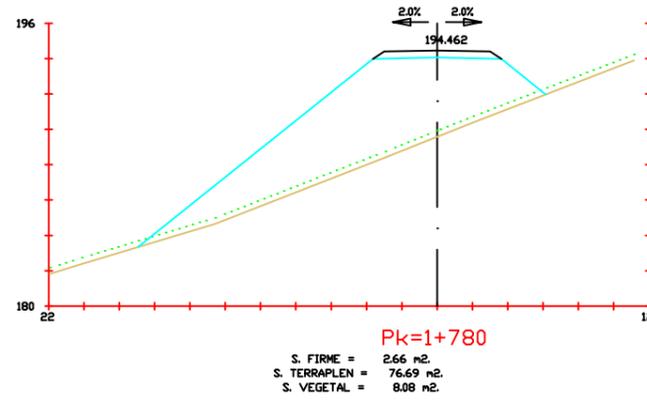
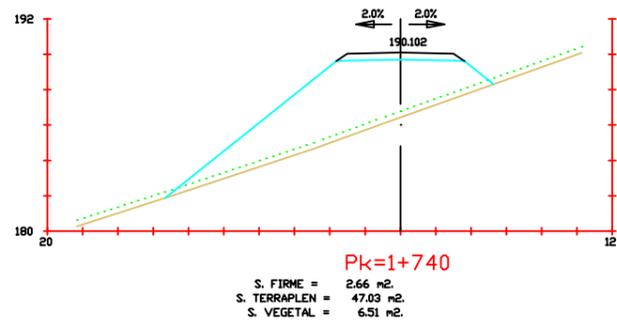
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Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
11

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
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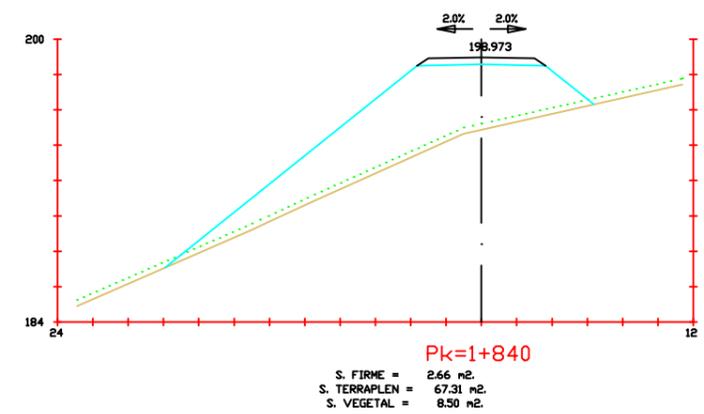
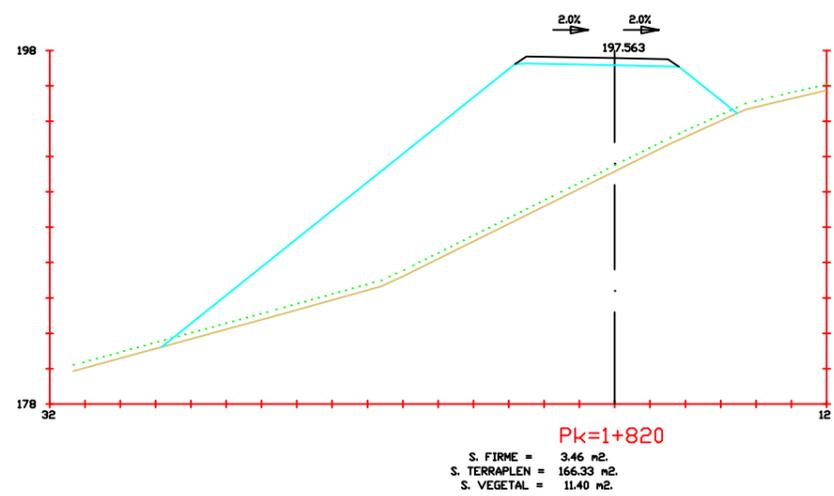
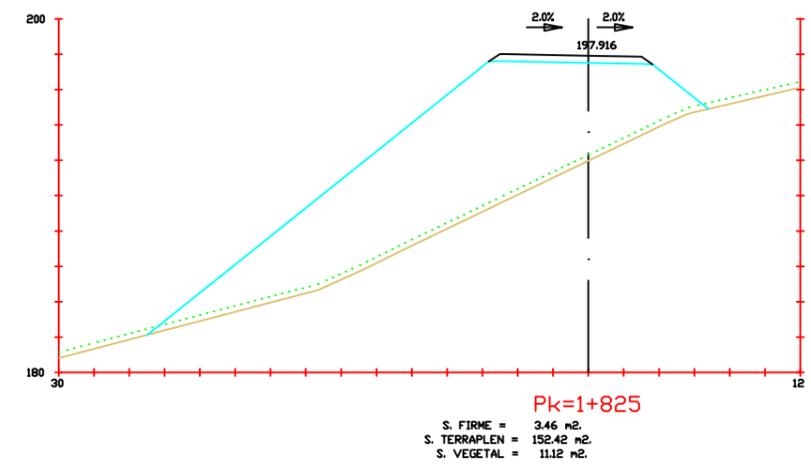
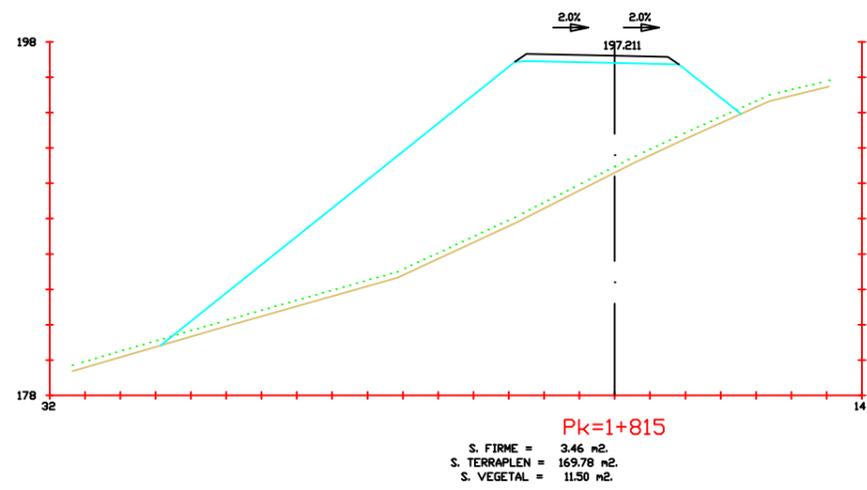
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Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
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Nº hoja:  
12

Escala:  
1/200



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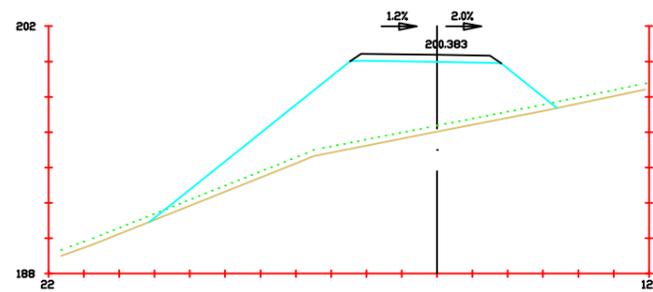
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Junio 2017

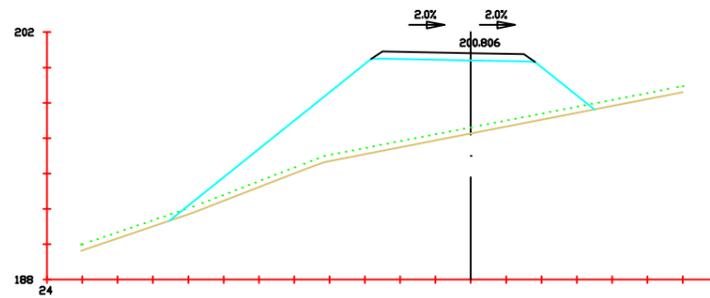
Título del  
plano:  
Perfiles transversales

Nº plano:  
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Nº hoja:  
13

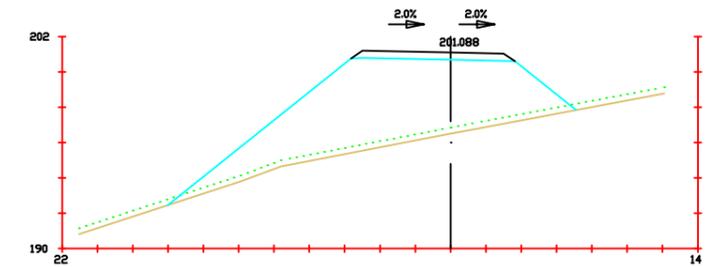
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1/200



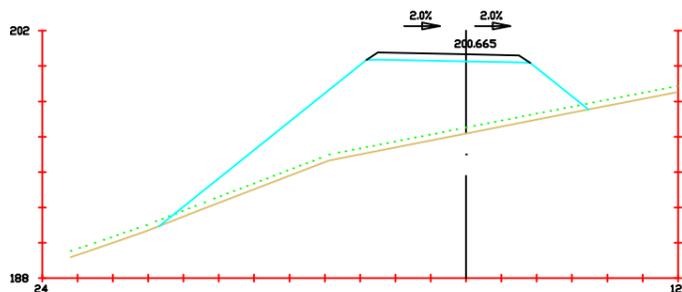
**Pk=1+860**  
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 S. TERRAPLEN = 66.21 m<sup>2</sup>.  
 S. VEGETAL = 8.08 m<sup>2</sup>.



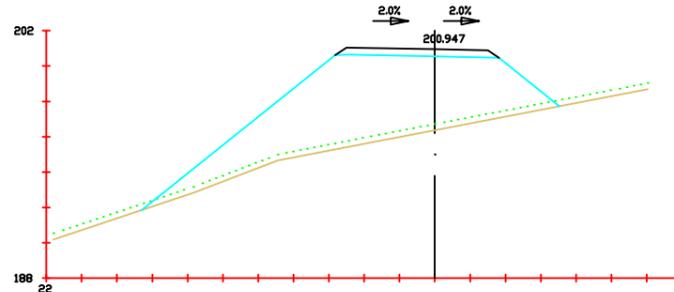
**Pk=1+866**  
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 S. TERRAPLEN = 74.48 m<sup>2</sup>.  
 S. VEGETAL = 8.43 m<sup>2</sup>.



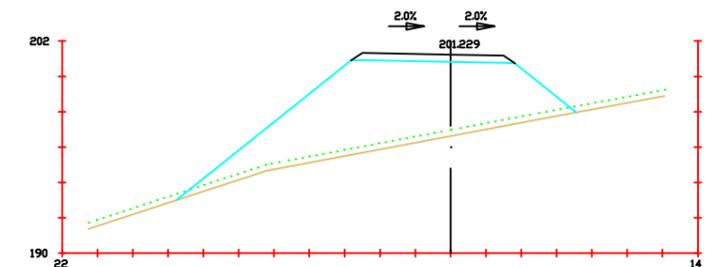
**Pk=1+870**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 72.83 m<sup>2</sup>.  
 S. VEGETAL = 8.10 m<sup>2</sup>.



**Pk=1+864**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 74.35 m<sup>2</sup>.  
 S. VEGETAL = 8.51 m<sup>2</sup>.



**Pk=1+868**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 73.94 m<sup>2</sup>.  
 S. VEGETAL = 8.28 m<sup>2</sup>.



**Pk=1+872**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 71.47 m<sup>2</sup>.  
 S. VEGETAL = 7.91 m<sup>2</sup>.



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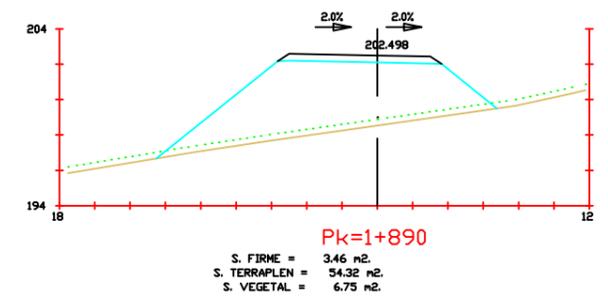
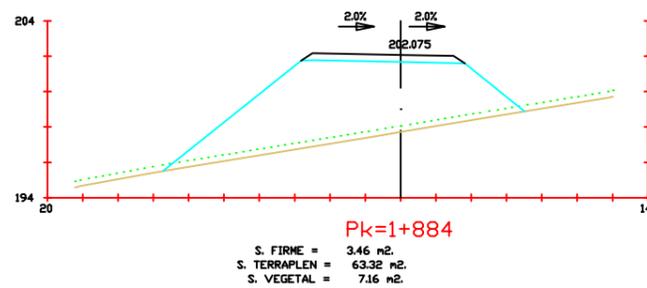
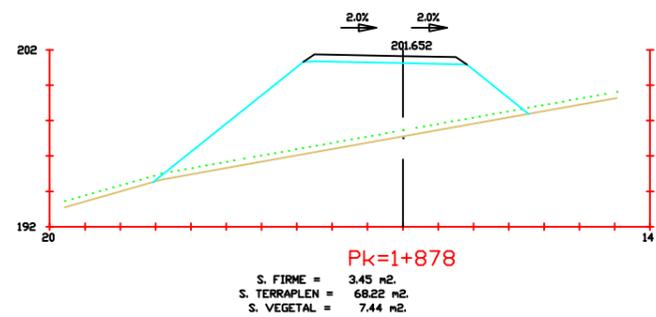
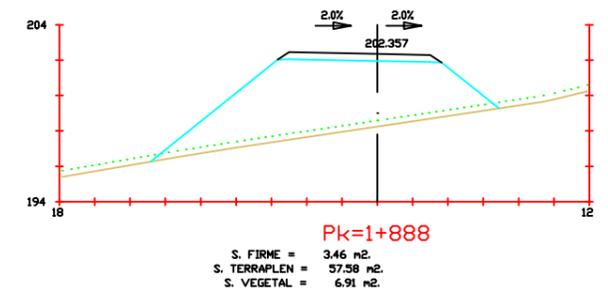
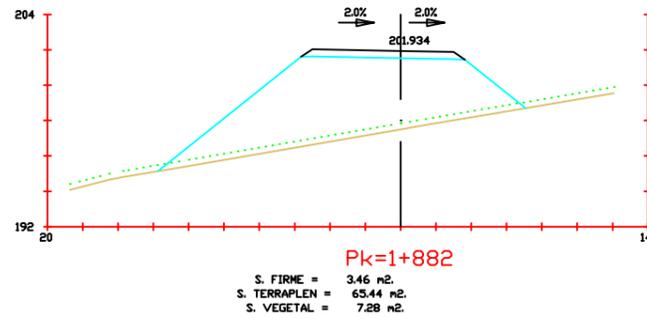
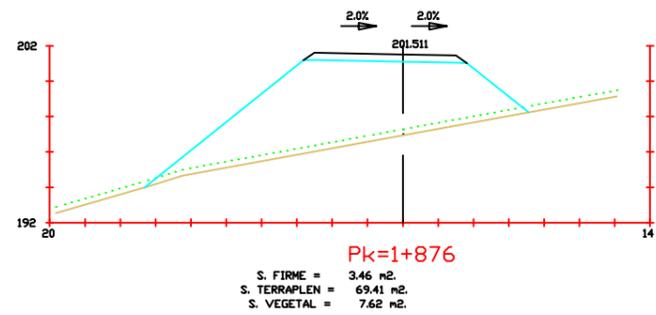
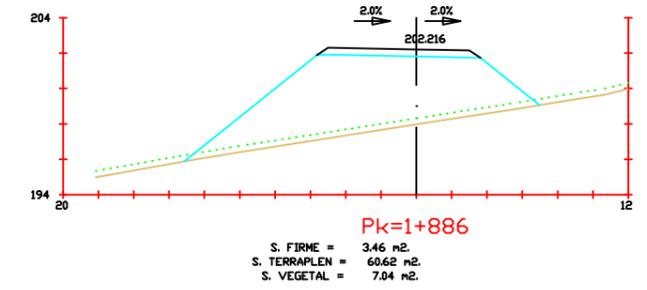
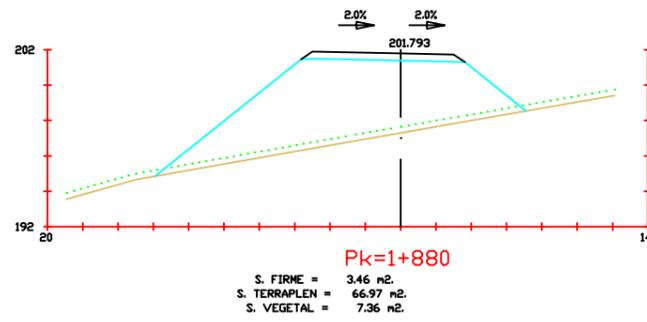
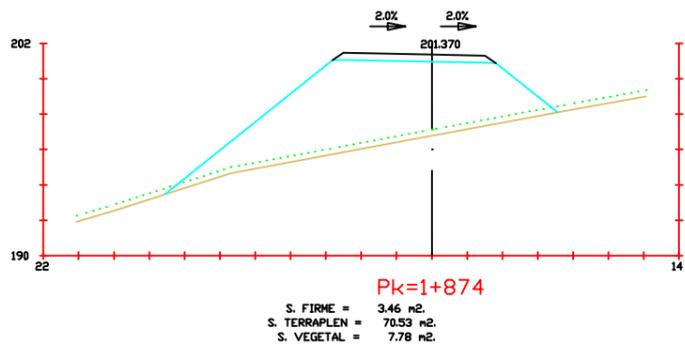
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Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº Hoja:  
14

Escala:  
1/200



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Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

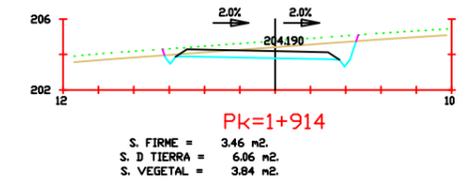
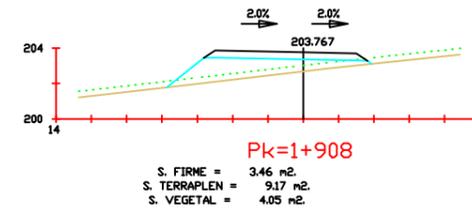
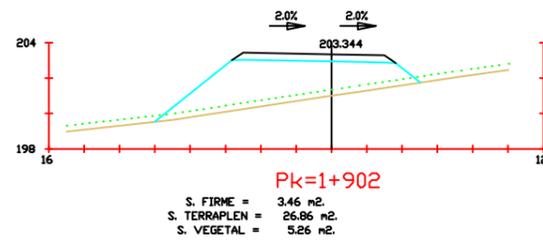
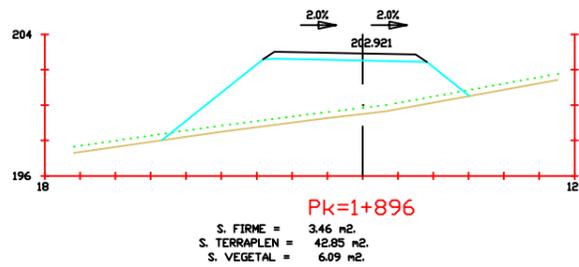
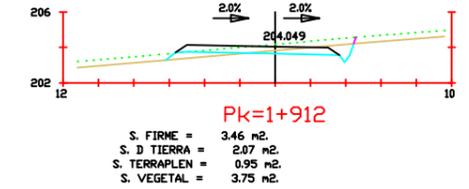
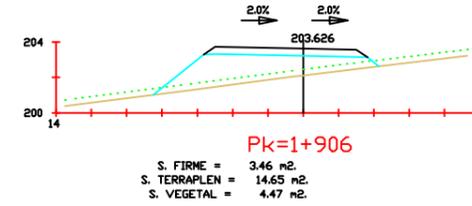
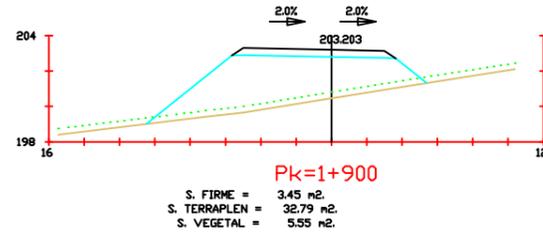
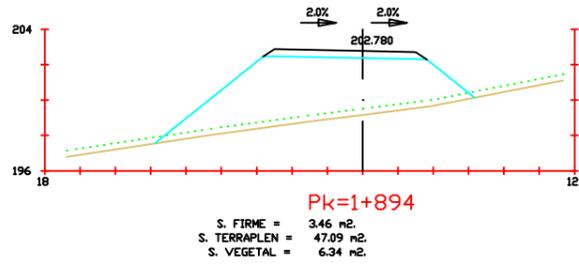
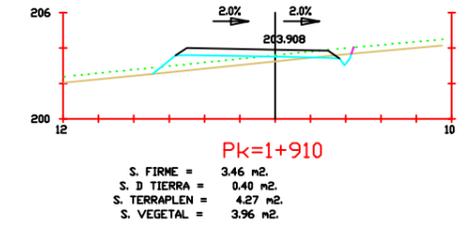
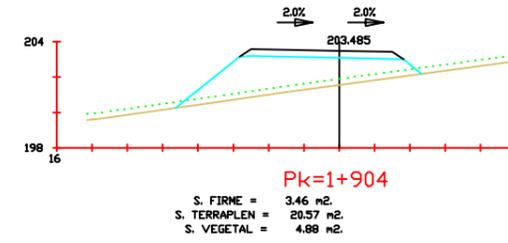
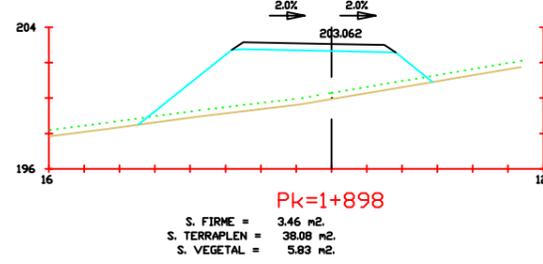
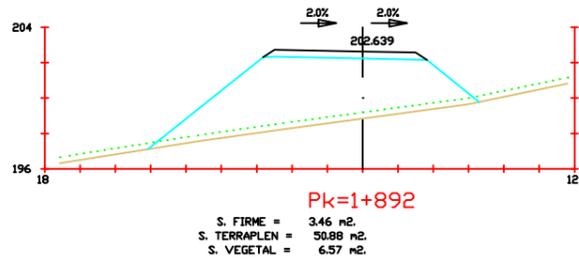
Firma:

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Junio 2017

Título del  
plano:  
Perfiles transversales

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4  
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15

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Autor:  
Emilio Ángel  
Serantes Carro

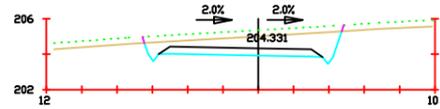
Firma:

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plano:  
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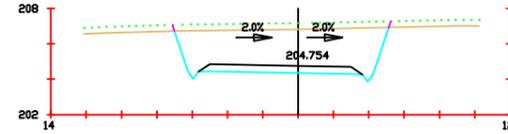
Nº plano:  
4  
Nº Hoja:  
16

Escala:  
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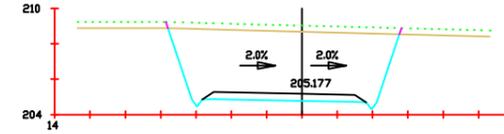
**Pk=1+916**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 11.21 m<sup>2</sup>.  
S. VEGETAL = 3.95 m<sup>2</sup>.



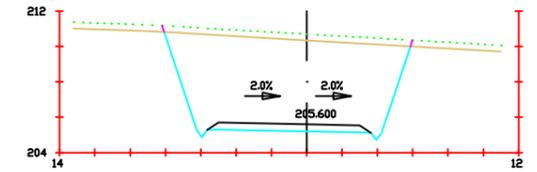
**Pk=1+922**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 27.95 m<sup>2</sup>.  
S. VEGETAL = 4.29 m<sup>2</sup>.



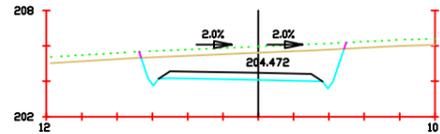
**Pk=1+928**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 46.46 m<sup>2</sup>.  
S. VEGETAL = 4.63 m<sup>2</sup>.



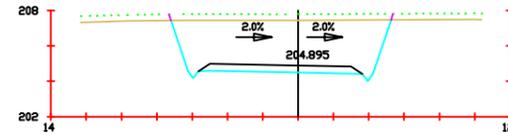
**Pk=1+934**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 63.73 m<sup>2</sup>.  
S. VEGETAL = 4.92 m<sup>2</sup>.



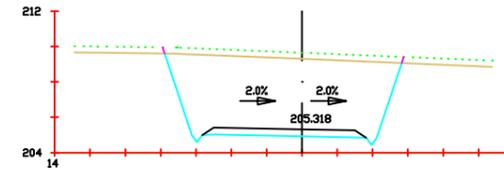
**Pk=1+918**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 16.57 m<sup>2</sup>.  
S. VEGETAL = 4.06 m<sup>2</sup>.



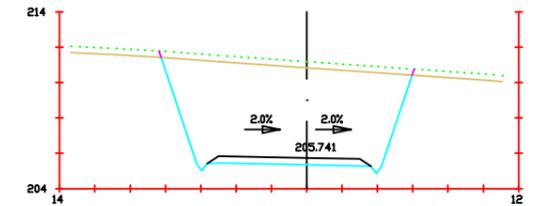
**Pk=1+924**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 33.93 m<sup>2</sup>.  
S. VEGETAL = 4.40 m<sup>2</sup>.



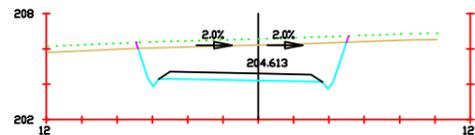
**Pk=1+930**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 52.96 m<sup>2</sup>.  
S. VEGETAL = 4.74 m<sup>2</sup>.



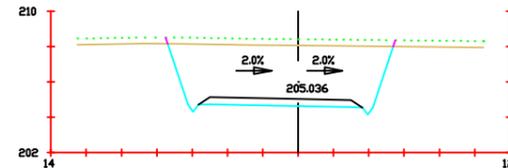
**Pk=1+936**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 68.74 m<sup>2</sup>.  
S. VEGETAL = 5.01 m<sup>2</sup>.



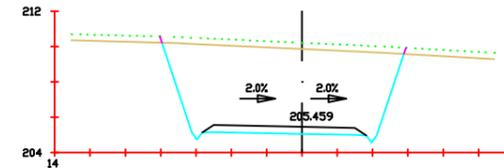
**Pk=1+920**

S. FIRME = 3.45 m<sup>2</sup>.  
S. D TIERRA = 22.15 m<sup>2</sup>.  
S. VEGETAL = 4.17 m<sup>2</sup>.



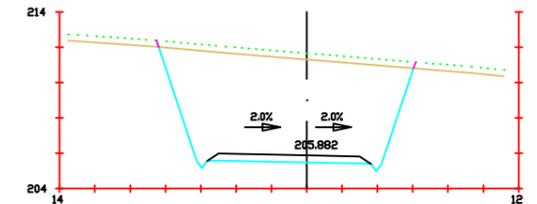
**Pk=1+926**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 40.11 m<sup>2</sup>.  
S. VEGETAL = 4.51 m<sup>2</sup>.



**Pk=1+932**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 59.73 m<sup>2</sup>.  
S. VEGETAL = 4.84 m<sup>2</sup>.



**Pk=1+938**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 73.73 m<sup>2</sup>.  
S. VEGETAL = 5.09 m<sup>2</sup>.



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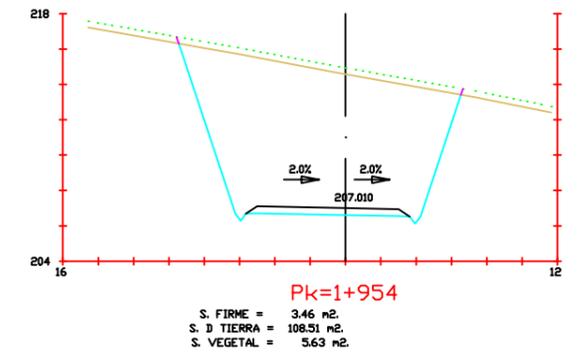
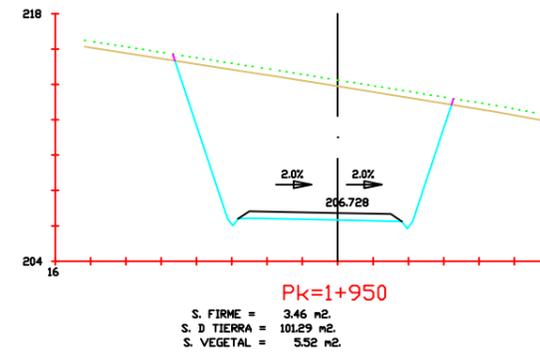
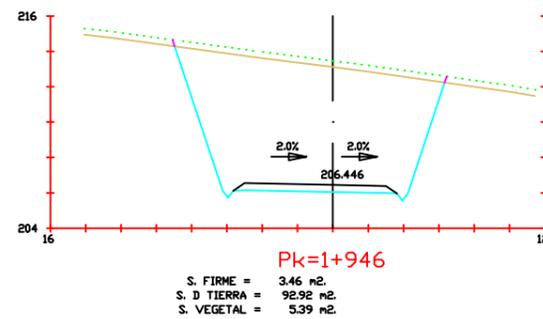
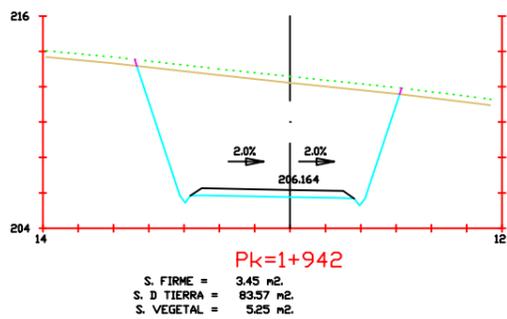
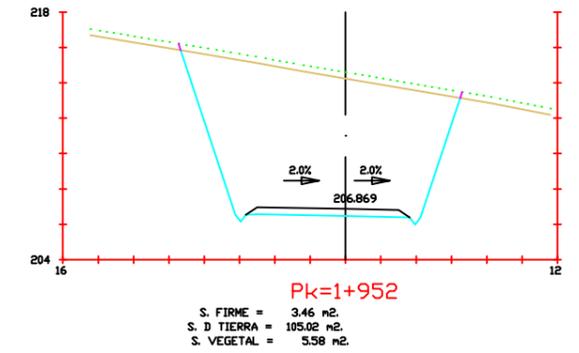
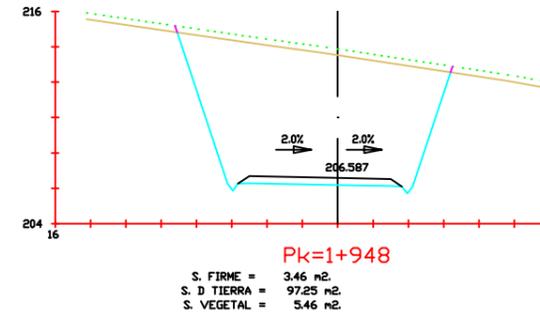
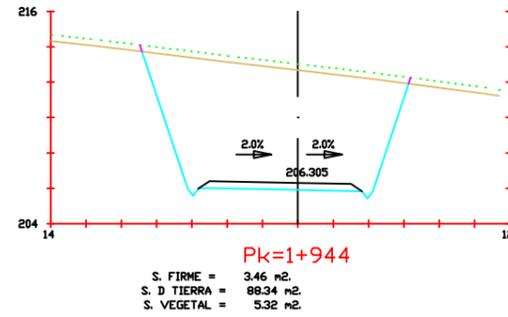
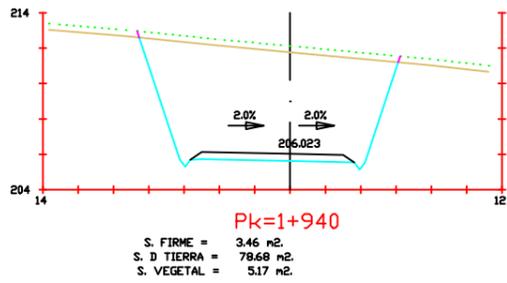
Firma:

Fecha:  
Junio 2017

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plano:  
Perfiles transversales

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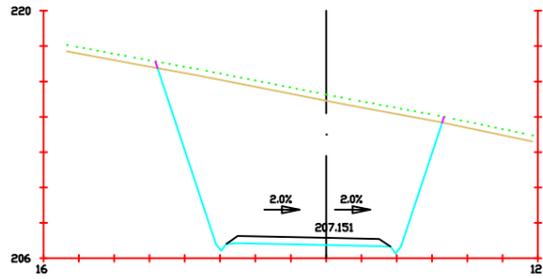
Firma:

Fecha:  
Junio 2017

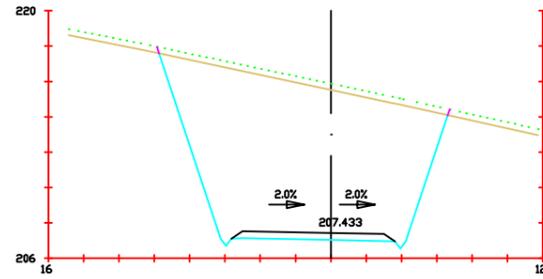
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
18

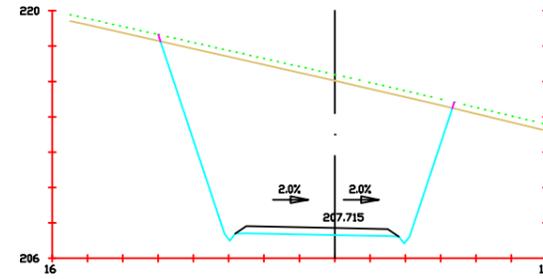
Escala:  
1/200



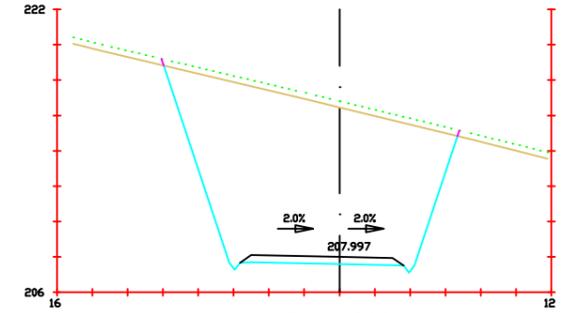
**Pk=1+956**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 111.76 m<sup>2</sup>.  
 S. VEGETAL = 5.68 m<sup>2</sup>.



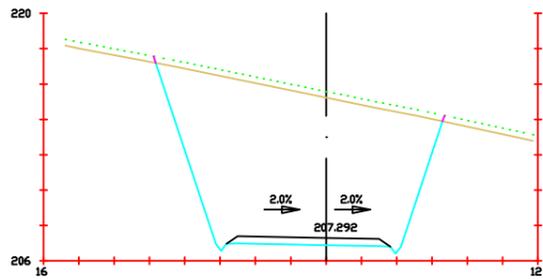
**Pk=1+960**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 117.32 m<sup>2</sup>.  
 S. VEGETAL = 5.76 m<sup>2</sup>.



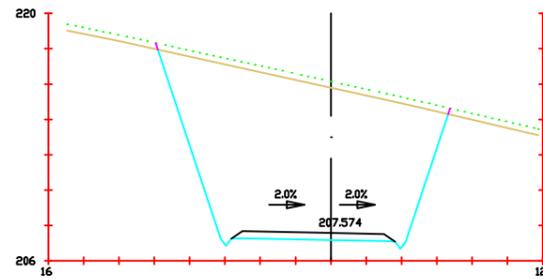
**Pk=1+964**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 121.53 m<sup>2</sup>.  
 S. VEGETAL = 5.82 m<sup>2</sup>.



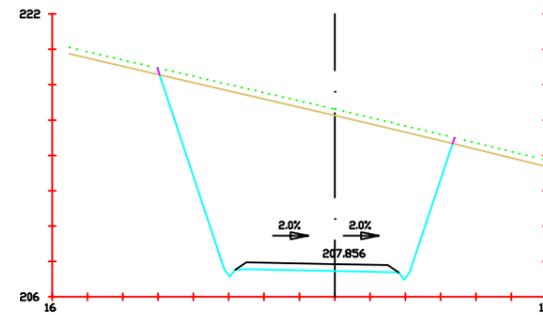
**Pk=1+968**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 124.05 m<sup>2</sup>.  
 S. VEGETAL = 5.86 m<sup>2</sup>.



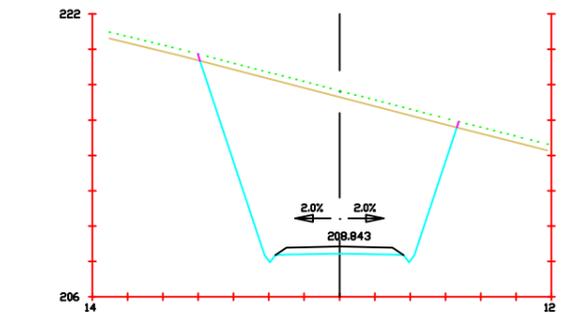
**Pk=1+958**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 114.72 m<sup>2</sup>.  
 S. VEGETAL = 5.72 m<sup>2</sup>.



**Pk=1+962**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. D TIERRA = 119.63 m<sup>2</sup>.  
 S. VEGETAL = 5.79 m<sup>2</sup>.



**Pk=1+966**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 123.00 m<sup>2</sup>.  
 S. VEGETAL = 5.84 m<sup>2</sup>.



**Pk=1+980**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 103.49 m<sup>2</sup>.  
 S. VEGETAL = 5.13 m<sup>2</sup>.



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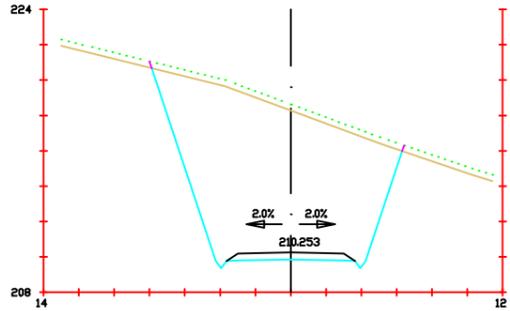
Firma:

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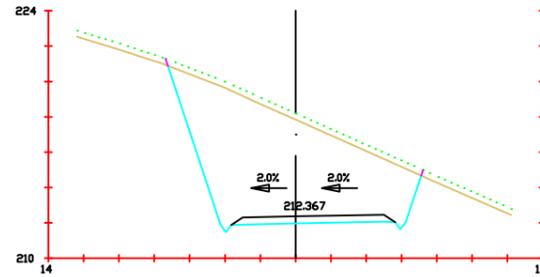
Título del  
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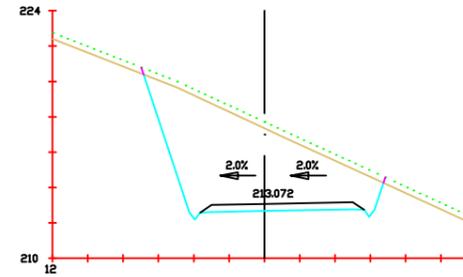
Escala:  
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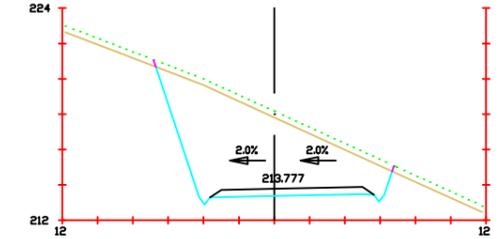
**Pk=2+000**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 97.37 m<sup>2</sup>.  
 S. VEGETAL = 5.00 m<sup>2</sup>.



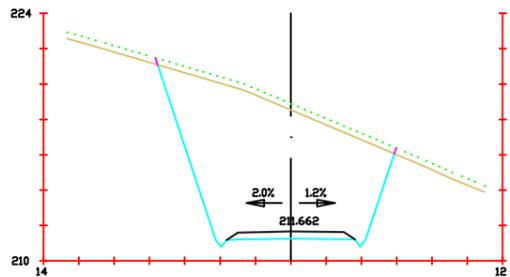
**Pk=2+030**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 70.06 m<sup>2</sup>.  
 S. VEGETAL = 5.06 m<sup>2</sup>.



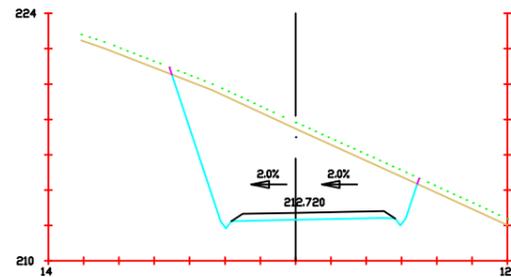
**Pk=2+040**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 53.61 m<sup>2</sup>.  
 S. VEGETAL = 4.79 m<sup>2</sup>.



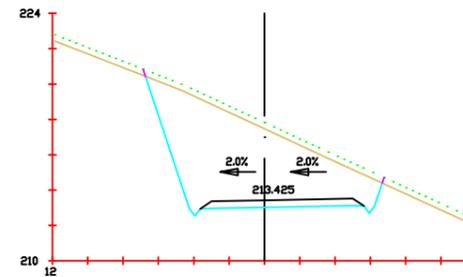
**Pk=2+050**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 50.01 m<sup>2</sup>.  
 S. VEGETAL = 4.72 m<sup>2</sup>.



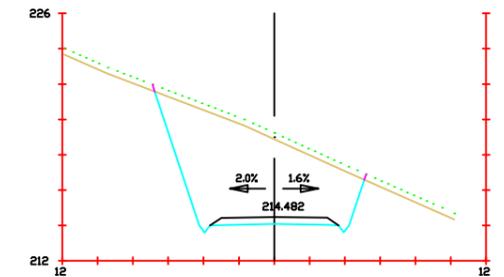
**Pk=2+020**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 81.25 m<sup>2</sup>.  
 S. VEGETAL = 4.73 m<sup>2</sup>.



**Pk=2+035**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 60.17 m<sup>2</sup>.  
 S. VEGETAL = 4.91 m<sup>2</sup>.



**Pk=2+045**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 50.25 m<sup>2</sup>.  
 S. VEGETAL = 4.73 m<sup>2</sup>.



**Pk=2+060**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 50.61 m<sup>2</sup>.  
 S. VEGETAL = 4.19 m<sup>2</sup>.



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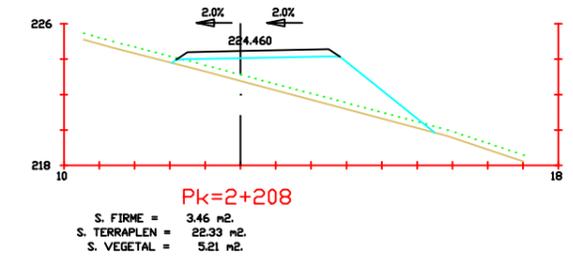
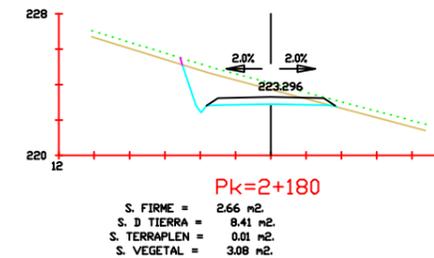
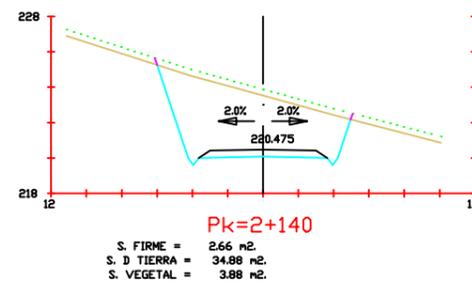
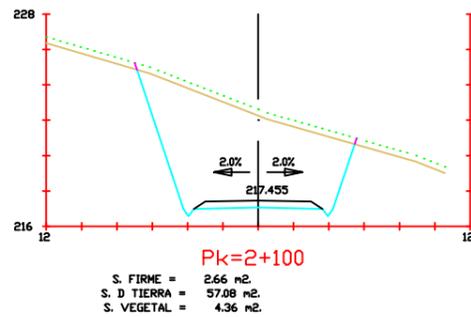
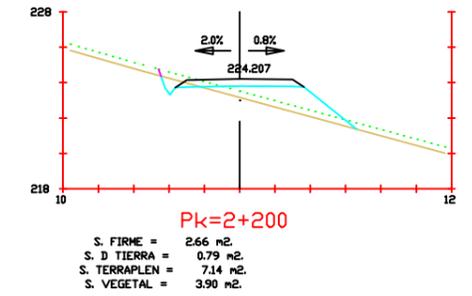
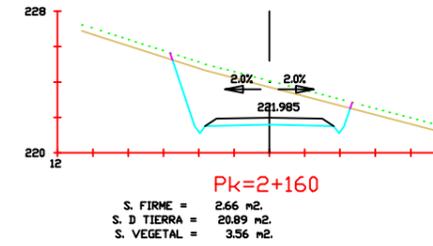
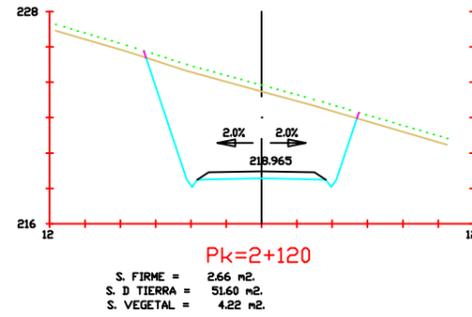
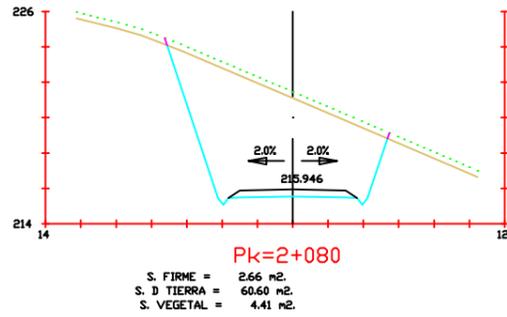
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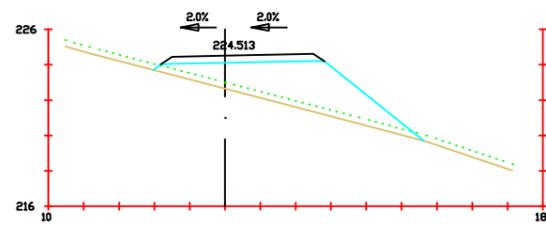
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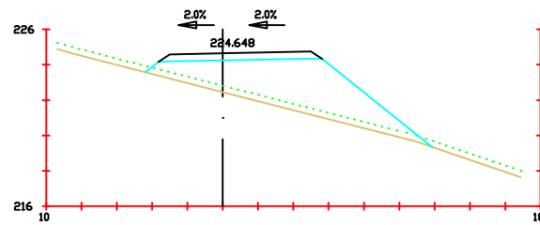
Título del  
plano:  
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Nº Hoja:  
21

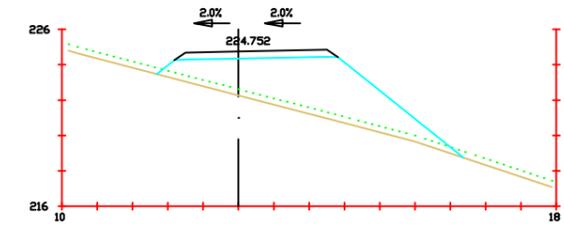
Escala:  
1/200



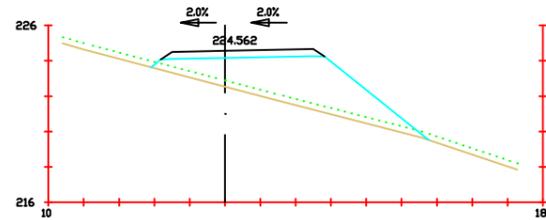
**Pk=2+210**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 24.71 m<sup>2</sup>.  
 S. VEGETAL = 5.36 m<sup>2</sup>.



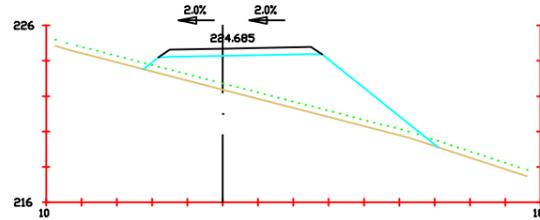
**Pk=2+216**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 29.54 m<sup>2</sup>.  
 S. VEGETAL = 5.68 m<sup>2</sup>.



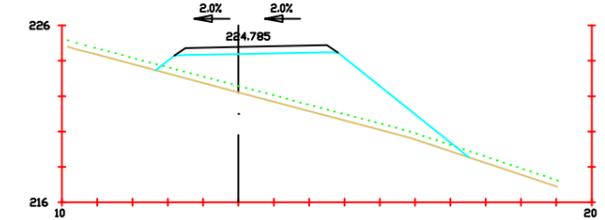
**Pk=2+222**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. TERRAPLEN = 34.97 m<sup>2</sup>.  
 S. VEGETAL = 6.08 m<sup>2</sup>.



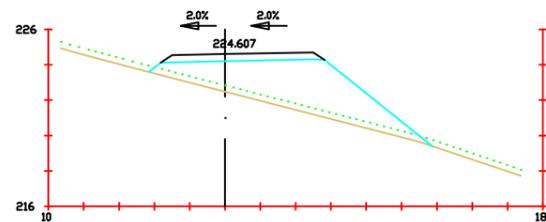
**Pk=2+212**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 27.14 m<sup>2</sup>.  
 S. VEGETAL = 5.51 m<sup>2</sup>.



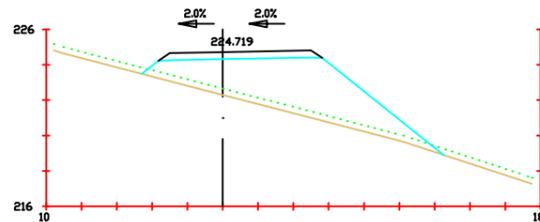
**Pk=2+218**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 31.79 m<sup>2</sup>.  
 S. VEGETAL = 5.84 m<sup>2</sup>.



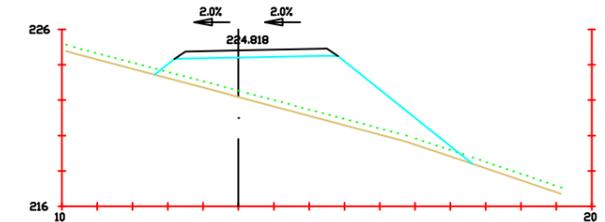
**Pk=2+224**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 36.70 m<sup>2</sup>.  
 S. VEGETAL = 6.20 m<sup>2</sup>.



**Pk=2+214**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 28.56 m<sup>2</sup>.  
 S. VEGETAL = 5.62 m<sup>2</sup>.



**Pk=2+220**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 33.59 m<sup>2</sup>.  
 S. VEGETAL = 5.98 m<sup>2</sup>.



**Pk=2+226**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 38.12 m<sup>2</sup>.  
 S. VEGETAL = 6.30 m<sup>2</sup>.



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 Serantes Carro

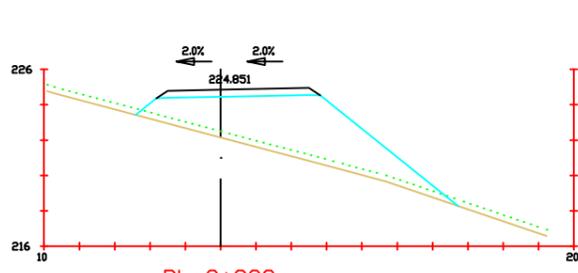
Firma:

Fecha:  
 Junio 2017

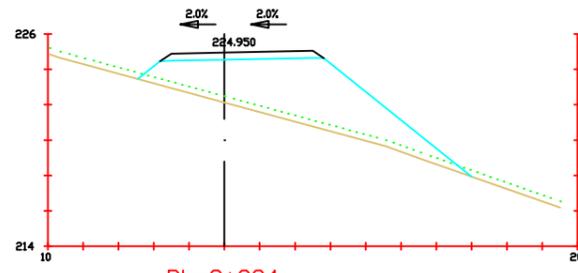
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 22

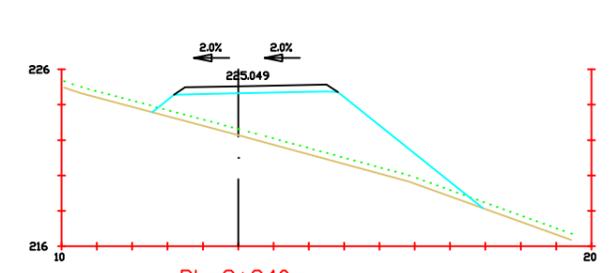
Escala:  
 1/200



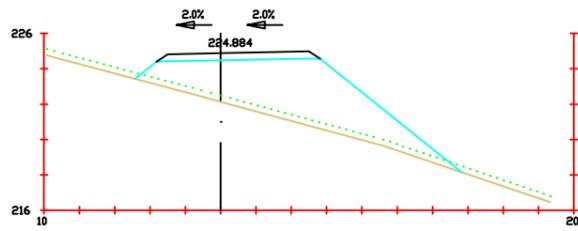
**Pk=2+228**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 39.36 m<sup>2</sup>.  
 S. VEGETAL = 6.39 m<sup>2</sup>.



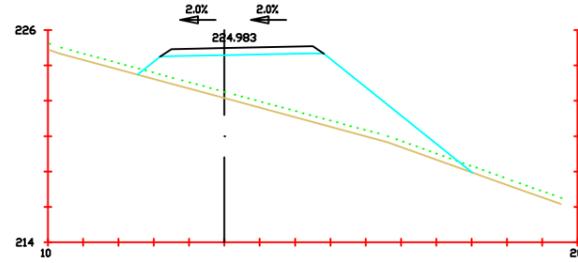
**Pk=2+234**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 42.16 m<sup>2</sup>.  
 S. VEGETAL = 6.62 m<sup>2</sup>.



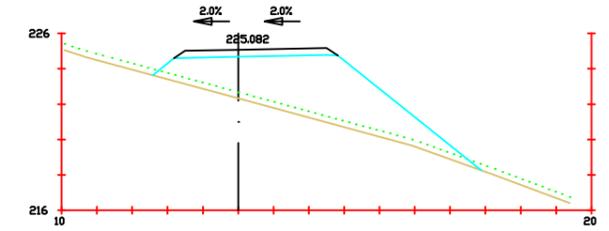
**Pk=2+240**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 41.17 m<sup>2</sup>.  
 S. VEGETAL = 6.56 m<sup>2</sup>.



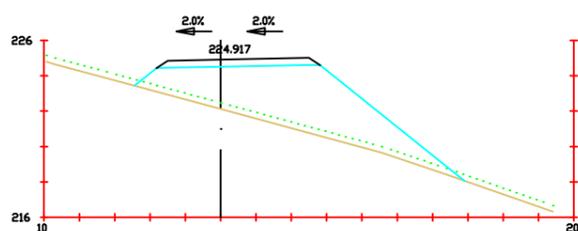
**Pk=2+230**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 40.61 m<sup>2</sup>.  
 S. VEGETAL = 6.48 m<sup>2</sup>.



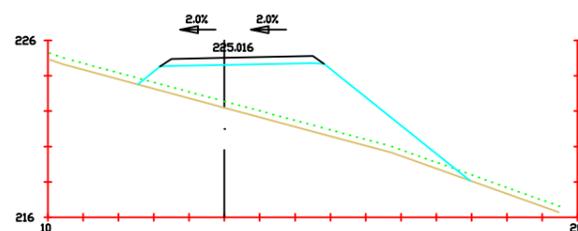
**Pk=2+236**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 42.29 m<sup>2</sup>.  
 S. VEGETAL = 6.64 m<sup>2</sup>.



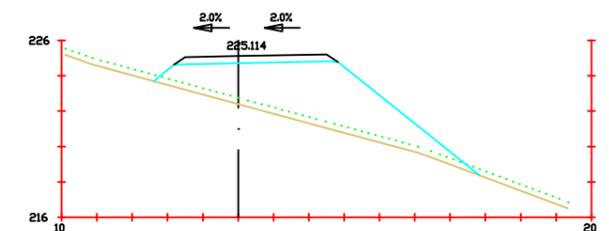
**Pk=2+242**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 40.72 m<sup>2</sup>.  
 S. VEGETAL = 6.51 m<sup>2</sup>.



**Pk=2+232**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 41.48 m<sup>2</sup>.  
 S. VEGETAL = 6.54 m<sup>2</sup>.



**Pk=2+238**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 41.78 m<sup>2</sup>.  
 S. VEGETAL = 6.59 m<sup>2</sup>.



**Pk=2+244**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 39.77 m<sup>2</sup>.  
 S. VEGETAL = 6.46 m<sup>2</sup>.



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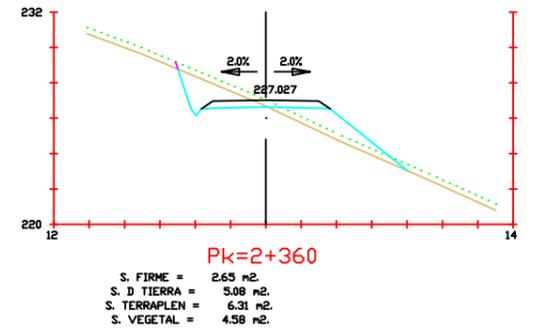
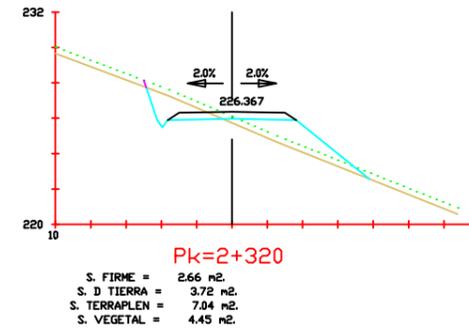
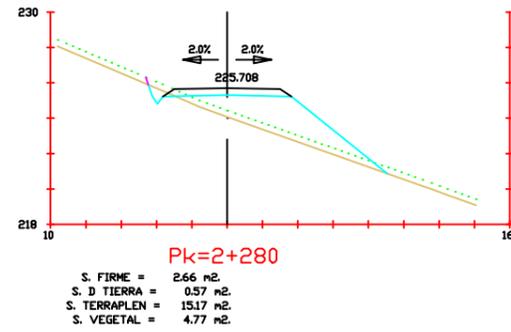
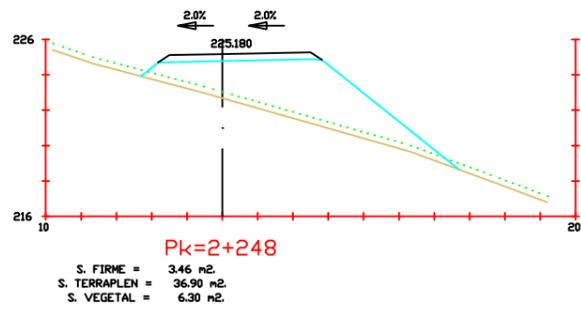
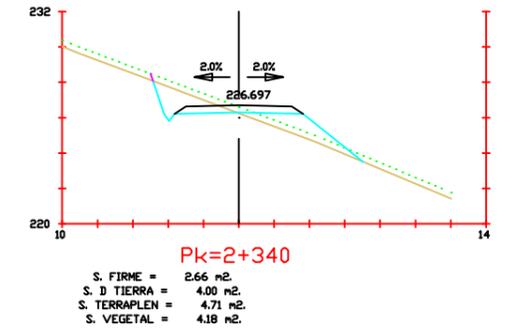
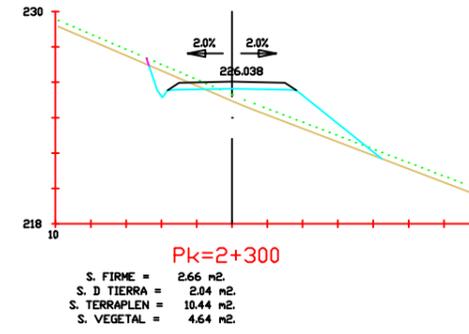
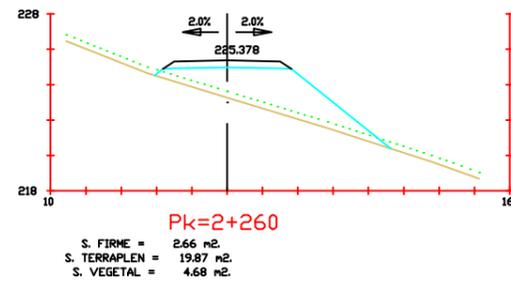
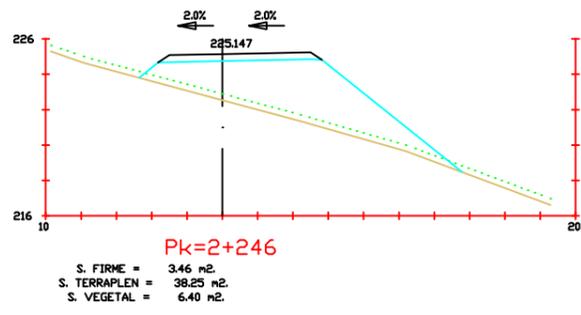
Firma:

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Título del  
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Escala:  
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Autor:  
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Serantes Carro

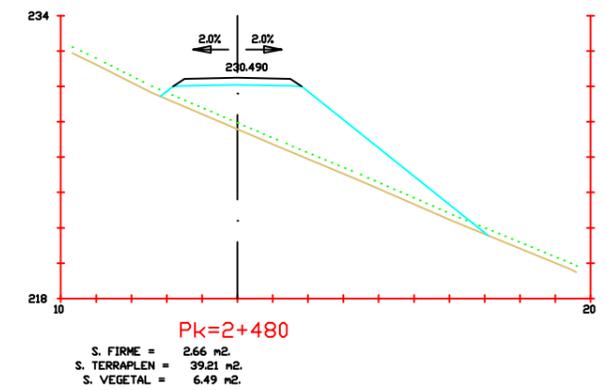
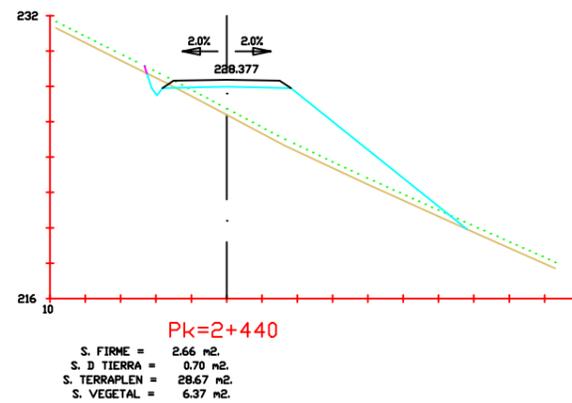
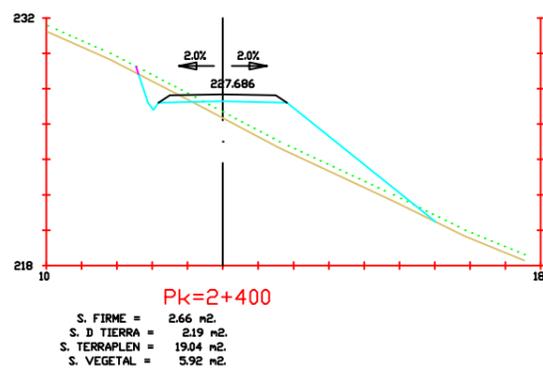
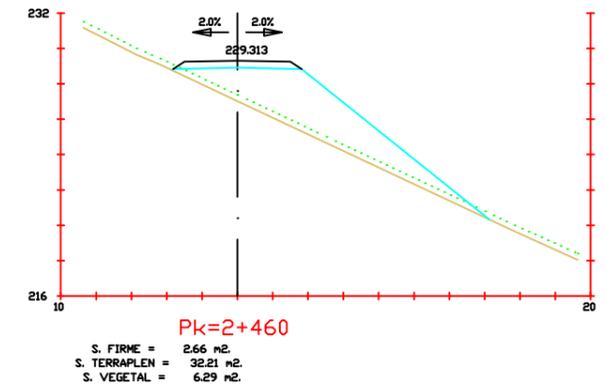
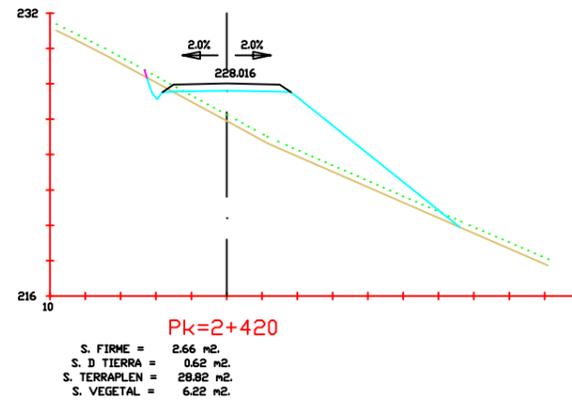
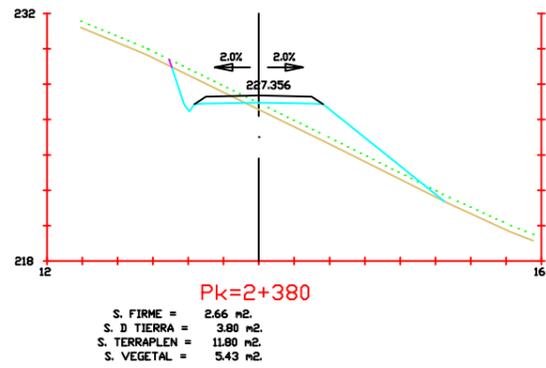
Firma:

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Título del  
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24

Escala:  
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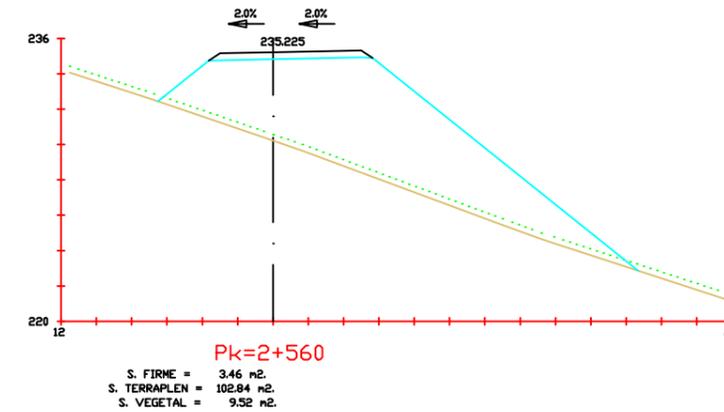
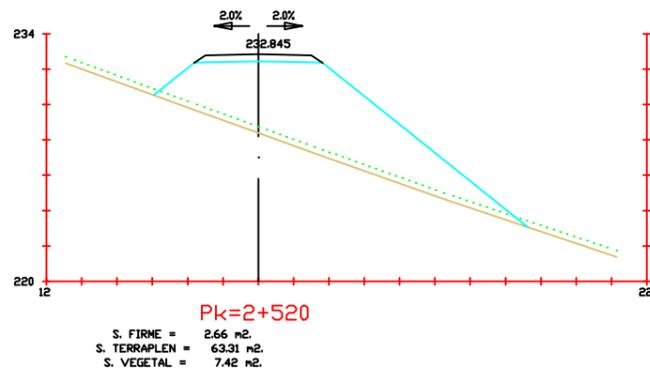
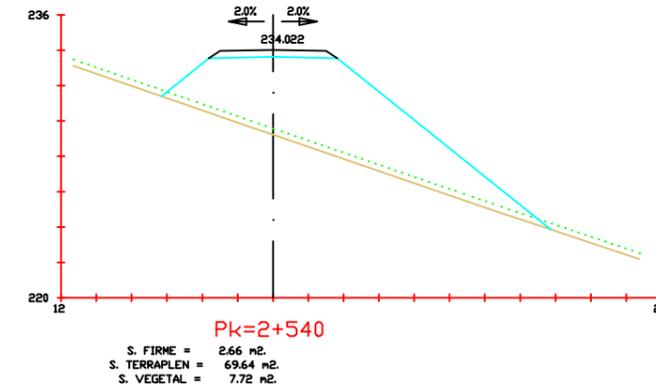
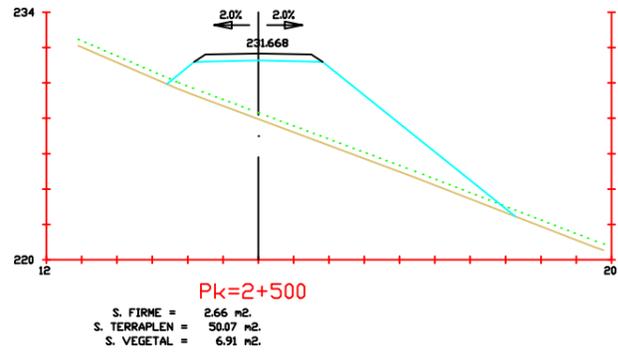
Firma:

Fecha:  
Junio 2017

Título del  
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4  
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25

Escala:  
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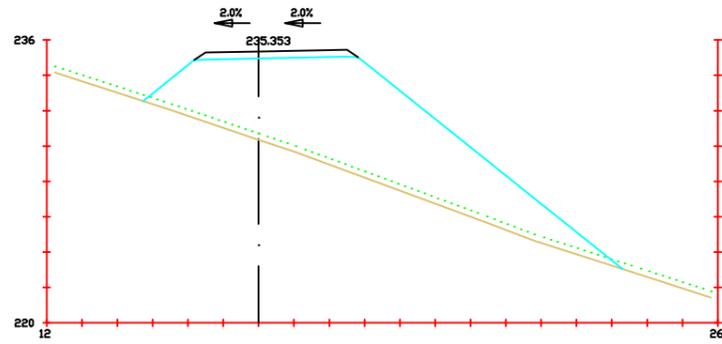
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Fecha:  
 Junio 2017

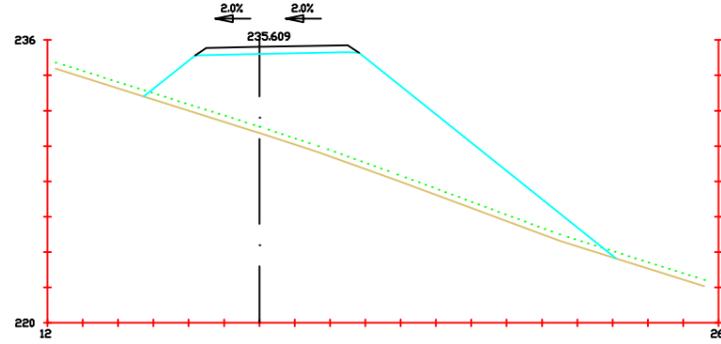
Título del  
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 Perfiles transversales

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 4  
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 26

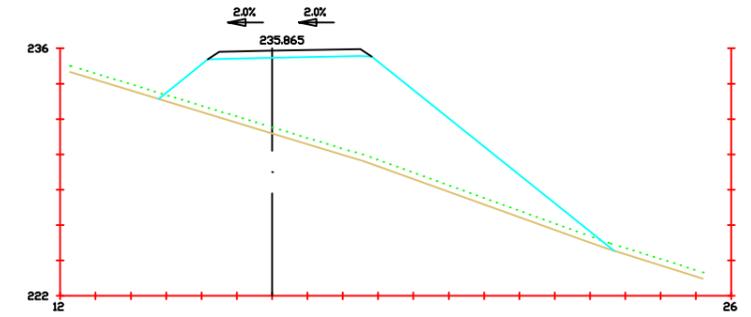
Escala:  
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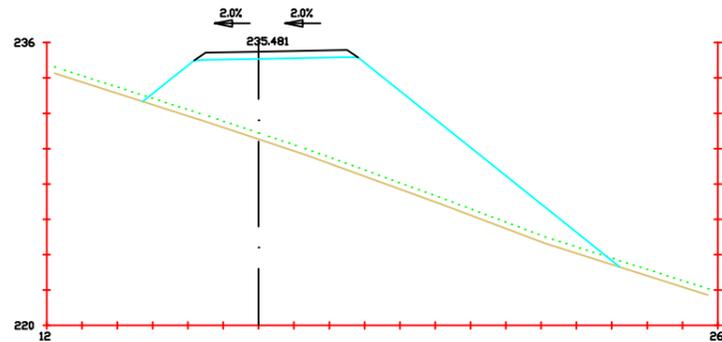
**Pk=2+562**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. TERRAPLEN = 102.03 m<sup>2</sup>.  
 S. VEGETAL = 9.51 m<sup>2</sup>.



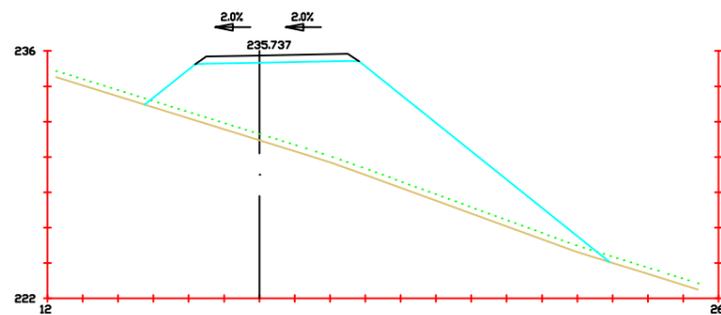
**Pk=2+566**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 97.39 m<sup>2</sup>.  
 S. VEGETAL = 9.35 m<sup>2</sup>.



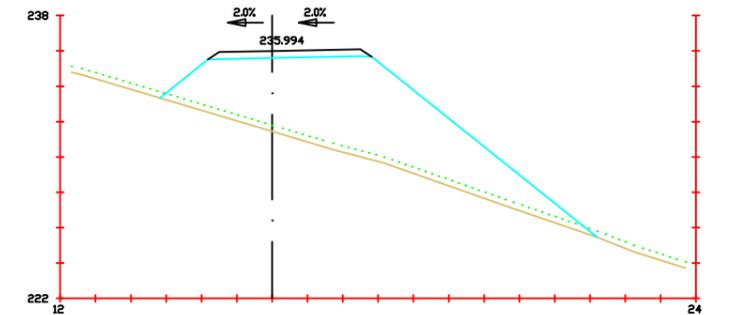
**Pk=2+570**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 89.00 m<sup>2</sup>.  
 S. VEGETAL = 9.04 m<sup>2</sup>.



**Pk=2+564**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 100.18 m<sup>2</sup>.  
 S. VEGETAL = 9.45 m<sup>2</sup>.



**Pk=2+568**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 93.71 m<sup>2</sup>.  
 S. VEGETAL = 9.22 m<sup>2</sup>.



**Pk=2+572**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 82.38 m<sup>2</sup>.  
 S. VEGETAL = 8.66 m<sup>2</sup>.



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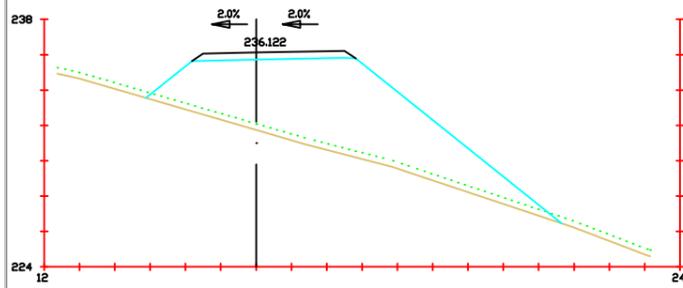
Firma:

Fecha:  
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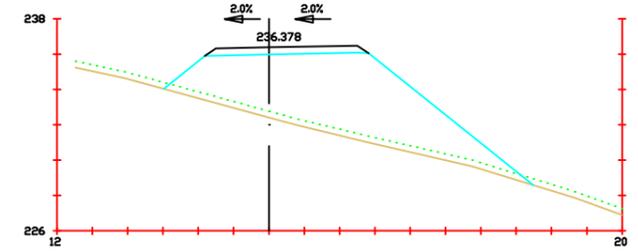
Título del  
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 27

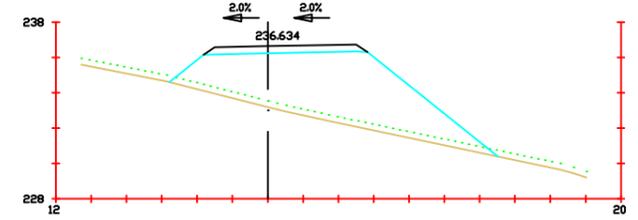
Escala:  
 1/200



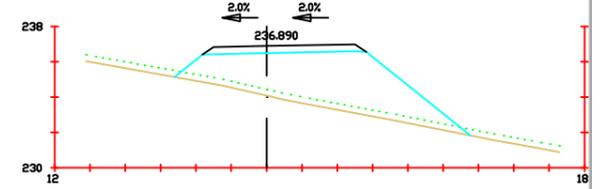
**Pk=2+574**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 75.33 m<sup>2</sup>.  
 S. VEGETAL = 8.24 m<sup>2</sup>.



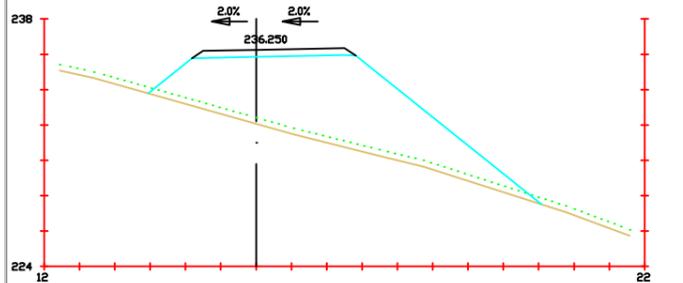
**Pk=2+578**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 61.18 m<sup>2</sup>.  
 S. VEGETAL = 7.33 m<sup>2</sup>.



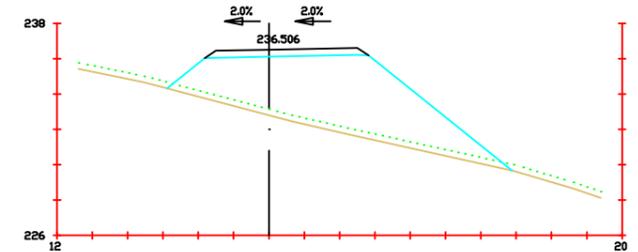
**Pk=2+582**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 48.43 m<sup>2</sup>.  
 S. VEGETAL = 6.51 m<sup>2</sup>.



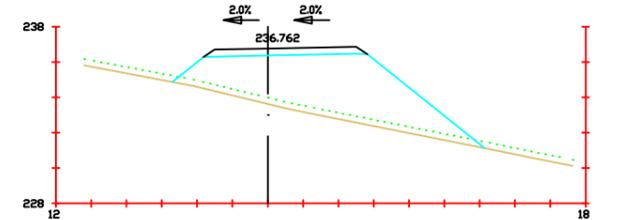
**Pk=2+586**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 36.04 m<sup>2</sup>.  
 S. VEGETAL = 5.87 m<sup>2</sup>.



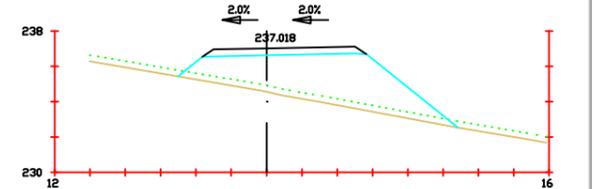
**Pk=2+576**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 68.15 m<sup>2</sup>.  
 S. VEGETAL = 7.79 m<sup>2</sup>.



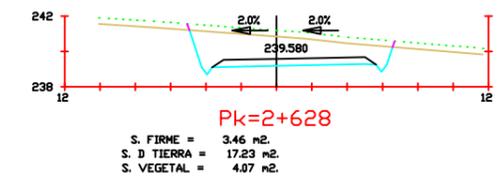
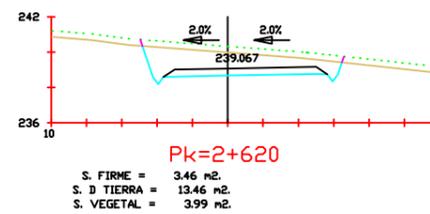
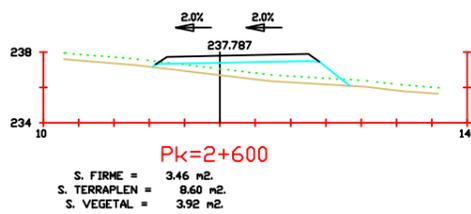
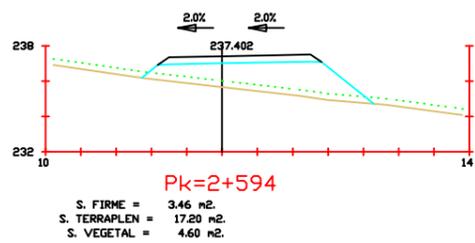
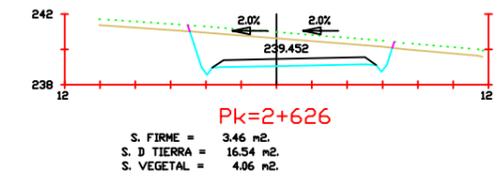
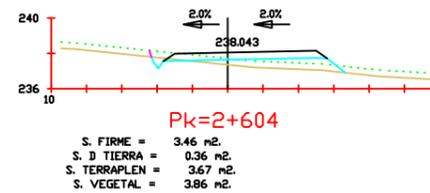
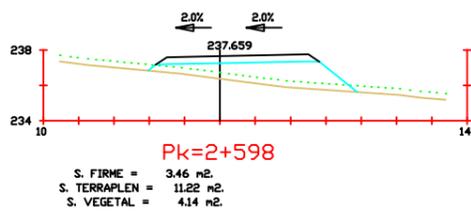
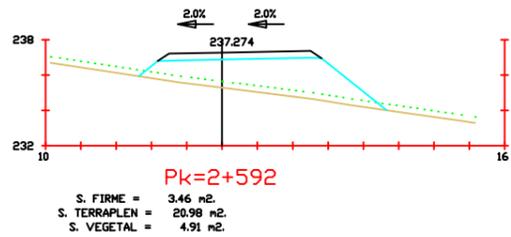
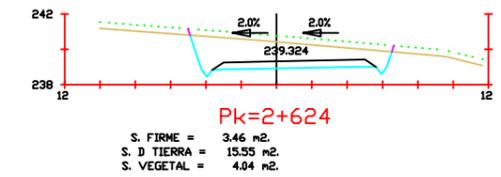
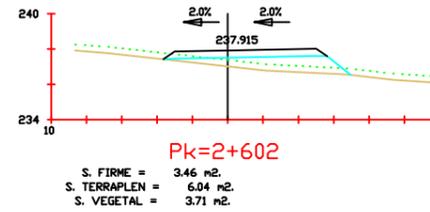
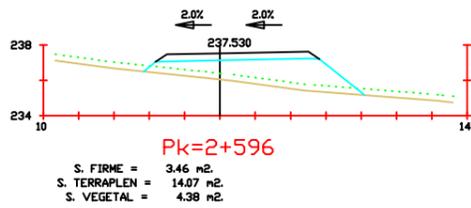
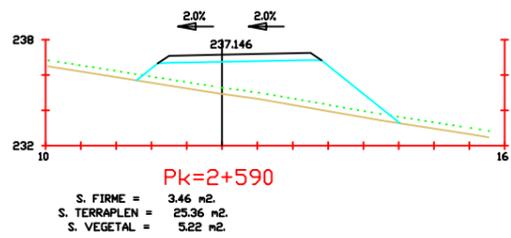
**Pk=2+580**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. TERRAPLEN = 54.69 m<sup>2</sup>.  
 S. VEGETAL = 6.84 m<sup>2</sup>.



**Pk=2+584**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 42.13 m<sup>2</sup>.  
 S. VEGETAL = 6.18 m<sup>2</sup>.



**Pk=2+588**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. TERRAPLEN = 30.35 m<sup>2</sup>.  
 S. VEGETAL = 5.55 m<sup>2</sup>.



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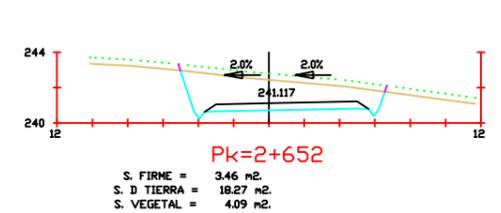
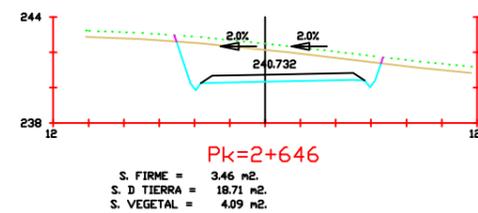
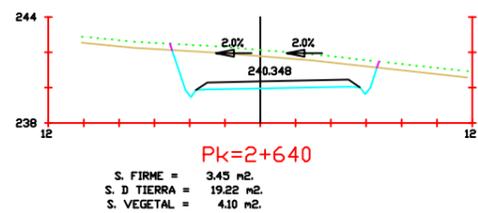
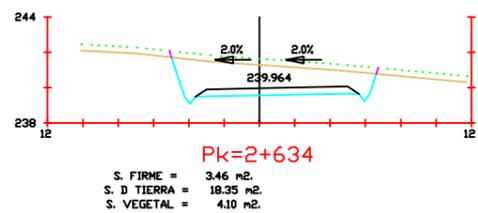
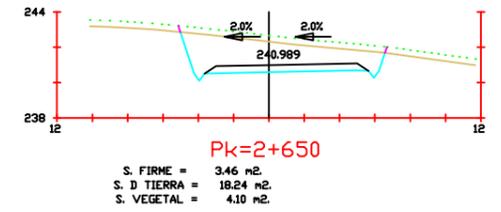
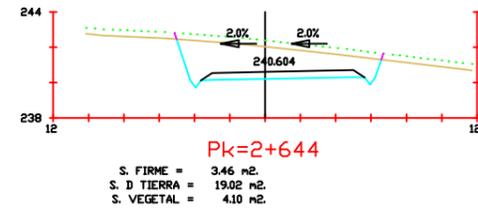
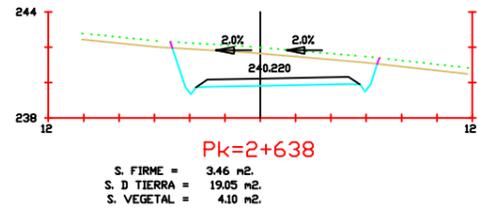
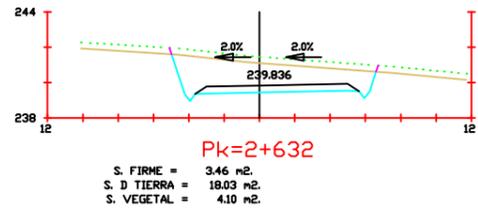
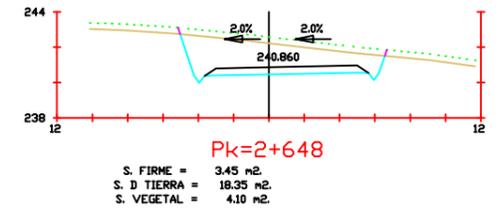
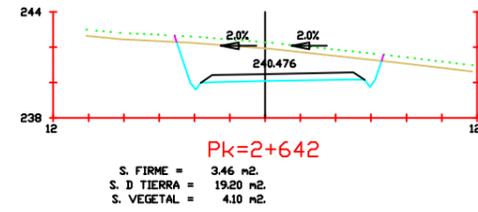
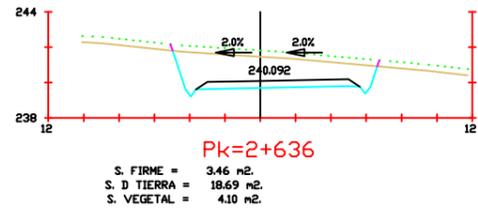
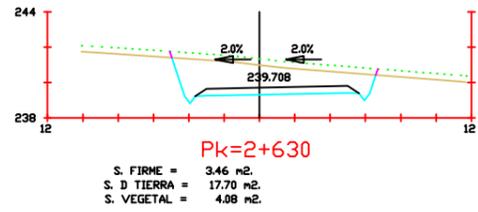
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
29

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

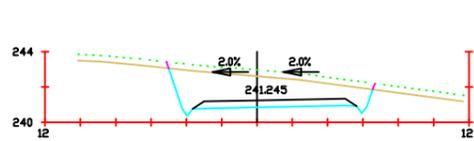
Firma:

Fecha:  
Junio 2017

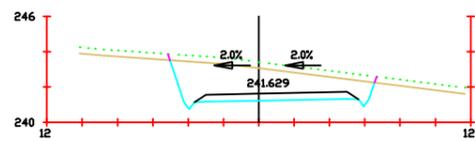
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
30

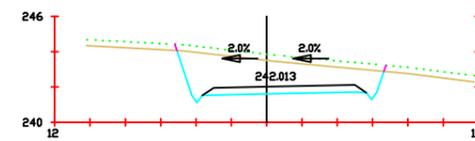
Escala:  
1/200



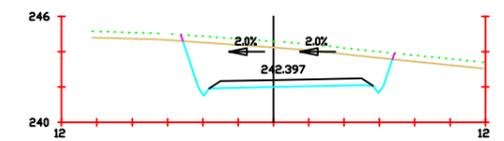
**Pk=2+654**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 18.35 m<sup>2</sup>.  
 S. VEGETAL = 4.09 m<sup>2</sup>.



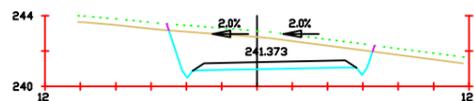
**Pk=2+660**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 18.90 m<sup>2</sup>.  
 S. VEGETAL = 4.09 m<sup>2</sup>.



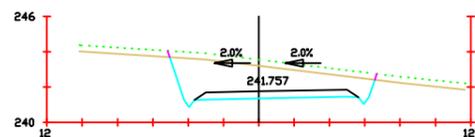
**Pk=2+666**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 20.37 m<sup>2</sup>.  
 S. VEGETAL = 4.14 m<sup>2</sup>.



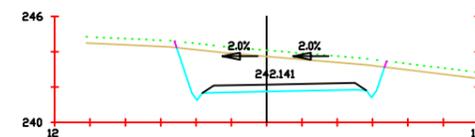
**Pk=2+672**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 23.92 m<sup>2</sup>.  
 S. VEGETAL = 4.20 m<sup>2</sup>.



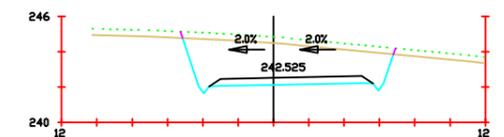
**Pk=2+656**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 18.51 m<sup>2</sup>.  
 S. VEGETAL = 4.08 m<sup>2</sup>.



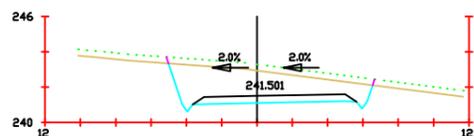
**Pk=2+662**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 19.17 m<sup>2</sup>.  
 S. VEGETAL = 4.10 m<sup>2</sup>.



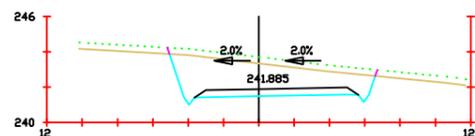
**Pk=2+668**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 21.43 m<sup>2</sup>.  
 S. VEGETAL = 4.16 m<sup>2</sup>.



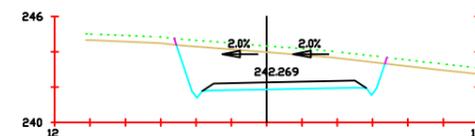
**Pk=2+674**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 25.29 m<sup>2</sup>.  
 S. VEGETAL = 4.22 m<sup>2</sup>.



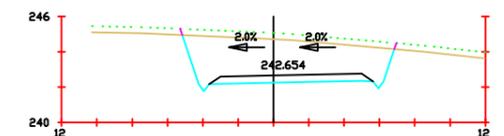
**Pk=2+658**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 18.69 m<sup>2</sup>.  
 S. VEGETAL = 4.09 m<sup>2</sup>.



**Pk=2+664**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 19.59 m<sup>2</sup>.  
 S. VEGETAL = 4.12 m<sup>2</sup>.



**Pk=2+670**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 22.63 m<sup>2</sup>.  
 S. VEGETAL = 4.17 m<sup>2</sup>.



**Pk=2+676**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 26.56 m<sup>2</sup>.  
 S. VEGETAL = 4.24 m<sup>2</sup>.



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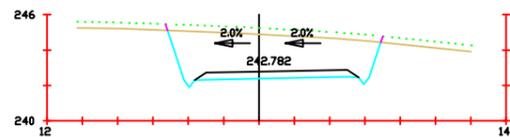
Firma:

Fecha:  
 Junio 2017

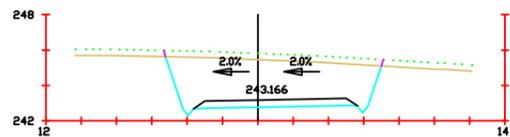
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº Hoja:  
 31

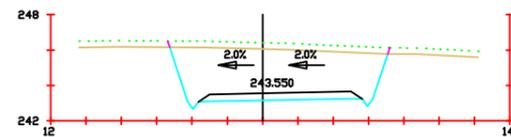
Escala:  
 1/200



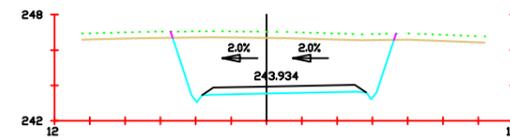
**Pk=2+678**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 27.64 m<sup>2</sup>.  
 S. VEGETAL = 4.27 m<sup>2</sup>.



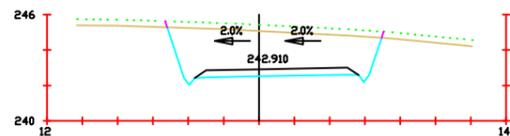
**Pk=2+684**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 30.03 m<sup>2</sup>.  
 S. VEGETAL = 4.31 m<sup>2</sup>.



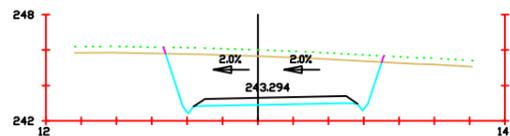
**Pk=2+690**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. D TIERRA = 32.75 m<sup>2</sup>.  
 S. VEGETAL = 4.36 m<sup>2</sup>.



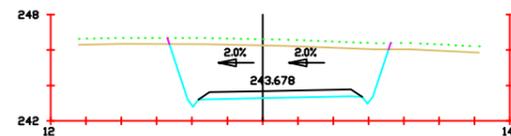
**Pk=2+696**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 35.91 m<sup>2</sup>.  
 S. VEGETAL = 4.43 m<sup>2</sup>.



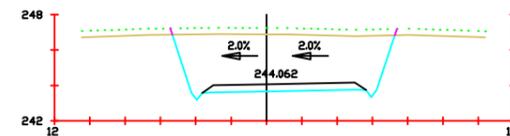
**Pk=2+680**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 28.45 m<sup>2</sup>.  
 S. VEGETAL = 4.29 m<sup>2</sup>.



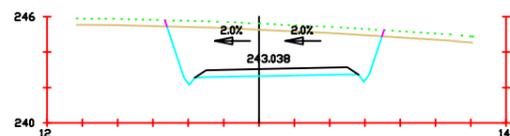
**Pk=2+686**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 30.89 m<sup>2</sup>.  
 S. VEGETAL = 4.33 m<sup>2</sup>.



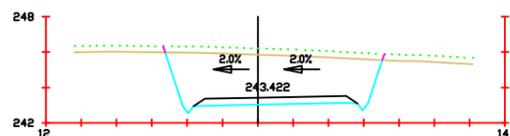
**Pk=2+692**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 33.75 m<sup>2</sup>.  
 S. VEGETAL = 4.39 m<sup>2</sup>.



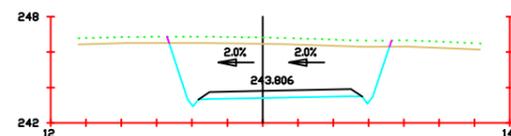
**Pk=2+698**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 37.03 m<sup>2</sup>.  
 S. VEGETAL = 4.45 m<sup>2</sup>.



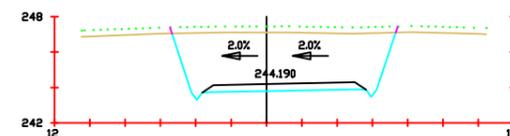
**Pk=2+682**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 29.22 m<sup>2</sup>.  
 S. VEGETAL = 4.30 m<sup>2</sup>.



**Pk=2+688**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 31.80 m<sup>2</sup>.  
 S. VEGETAL = 4.35 m<sup>2</sup>.



**Pk=2+694**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 34.81 m<sup>2</sup>.  
 S. VEGETAL = 4.41 m<sup>2</sup>.



**Pk=2+700**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 38.17 m<sup>2</sup>.  
 S. VEGETAL = 4.47 m<sup>2</sup>.



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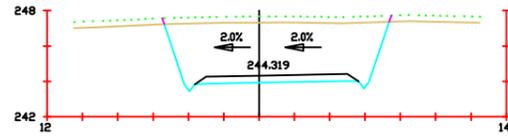
Firma:

Fecha:  
 Junio 2017

Título del  
 plano:  
 Perfiles transversales

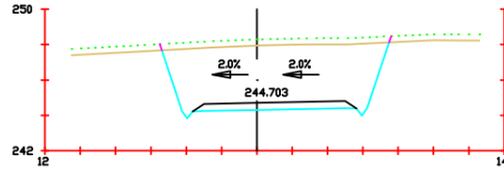
Nº plano:  
 4  
 Nº Hoja:  
 32

Escala:  
 1/200



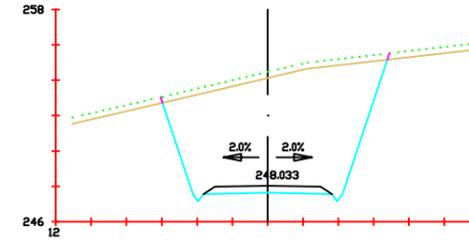
**Pk=2+702**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 39.30 m<sup>2</sup>.  
S. VEGETAL = 4.50 m<sup>2</sup>.



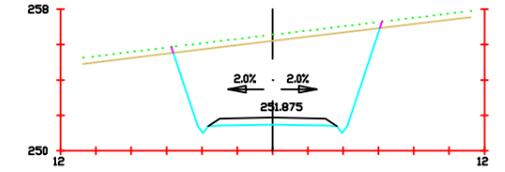
**Pk=2+708**

S. FIRME = 3.45 m<sup>2</sup>.  
S. D TIERRA = 42.49 m<sup>2</sup>.  
S. VEGETAL = 4.55 m<sup>2</sup>.



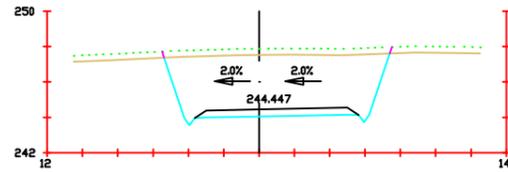
**Pk=2+760**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 69.48 m<sup>2</sup>.  
S. VEGETAL = 4.50 m<sup>2</sup>.



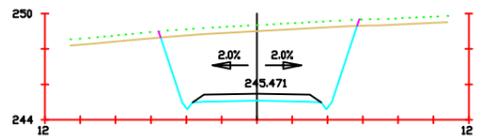
**Pk=2+820**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 48.63 m<sup>2</sup>.  
S. VEGETAL = 4.14 m<sup>2</sup>.



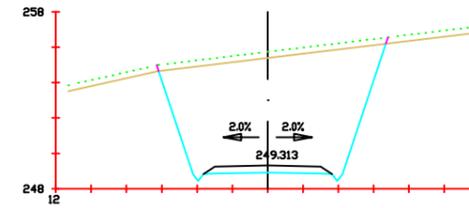
**Pk=2+704**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 40.42 m<sup>2</sup>.  
S. VEGETAL = 4.51 m<sup>2</sup>.



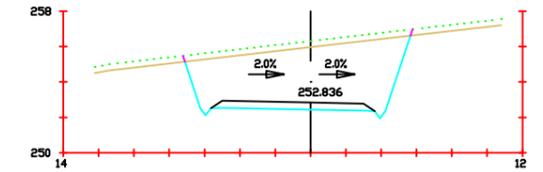
**Pk=2+720**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 39.26 m<sup>2</sup>.  
S. VEGETAL = 3.94 m<sup>2</sup>.



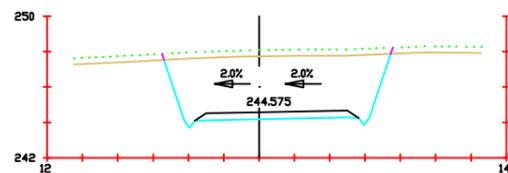
**Pk=2+780**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 70.13 m<sup>2</sup>.  
S. VEGETAL = 4.55 m<sup>2</sup>.



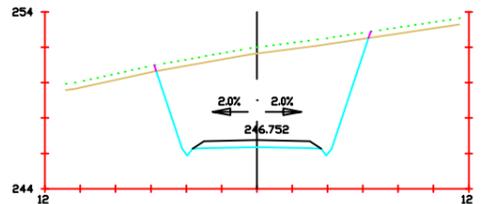
**Pk=2+835**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 39.98 m<sup>2</sup>.  
S. VEGETAL = 4.51 m<sup>2</sup>.



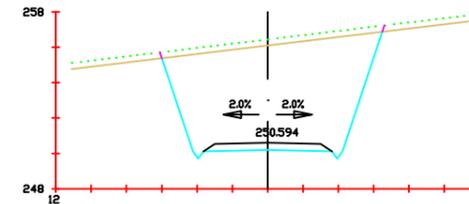
**Pk=2+706**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 41.49 m<sup>2</sup>.  
S. VEGETAL = 4.53 m<sup>2</sup>.



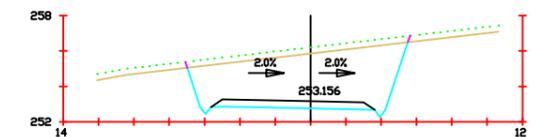
**Pk=2+740**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 54.76 m<sup>2</sup>.  
S. VEGETAL = 4.25 m<sup>2</sup>.



**Pk=2+800**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 62.80 m<sup>2</sup>.  
S. VEGETAL = 4.41 m<sup>2</sup>.



**Pk=2+840**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 34.59 m<sup>2</sup>.  
S. VEGETAL = 4.41 m<sup>2</sup>.



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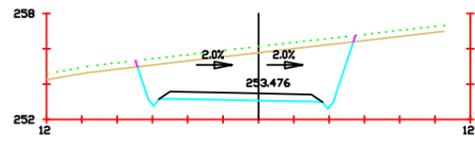
Firma:

Fecha:  
Junio 2017

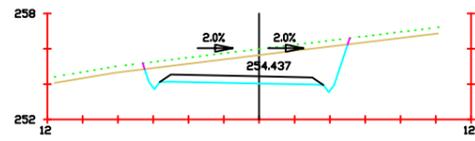
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
33

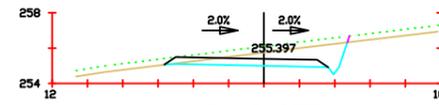
Escala:  
1/200



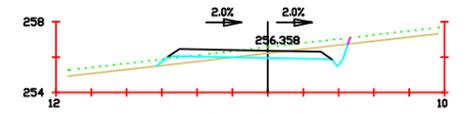
**Pk=2+845**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 29.63 m<sup>2</sup>.  
 S. VEGETAL = 4.32 m<sup>2</sup>.



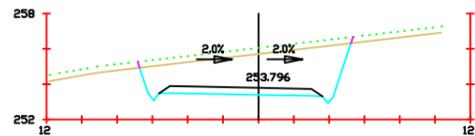
**Pk=2+860**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 16.52 m<sup>2</sup>.  
 S. VEGETAL = 4.06 m<sup>2</sup>.



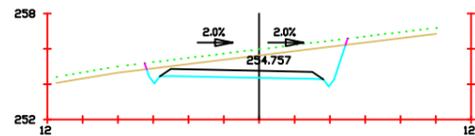
**Pk=2+875**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 6.94 m<sup>2</sup>.  
 S. VEGETAL = 3.65 m<sup>2</sup>.



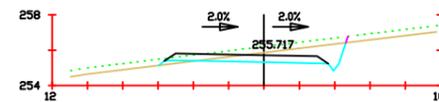
**Pk=2+890**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.80 m<sup>2</sup>.  
 S. TERRAPLEN = 1.08 m<sup>2</sup>.  
 S. VEGETAL = 3.82 m<sup>2</sup>.



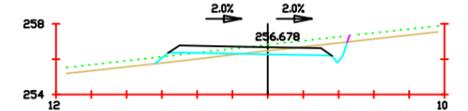
**Pk=2+850**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 24.86 m<sup>2</sup>.  
 S. VEGETAL = 4.23 m<sup>2</sup>.



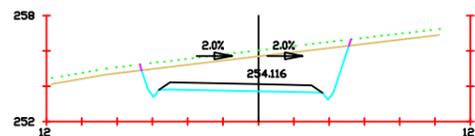
**Pk=2+865**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. D TIERRA = 12.74 m<sup>2</sup>.  
 S. VEGETAL = 3.98 m<sup>2</sup>.



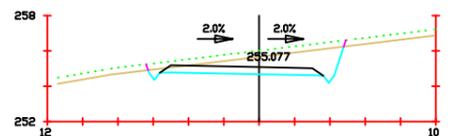
**Pk=2+880**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.95 m<sup>2</sup>.  
 S. TERRAPLEN = 0.25 m<sup>2</sup>.  
 S. VEGETAL = 3.73 m<sup>2</sup>.



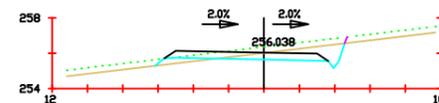
**Pk=2+895**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.37 m<sup>2</sup>.  
 S. TERRAPLEN = 1.36 m<sup>2</sup>.  
 S. VEGETAL = 3.84 m<sup>2</sup>.



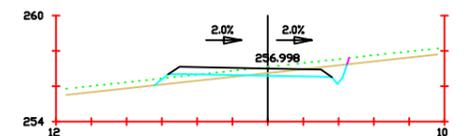
**Pk=2+855**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 20.76 m<sup>2</sup>.  
 S. VEGETAL = 4.15 m<sup>2</sup>.



**Pk=2+870**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 9.58 m<sup>2</sup>.  
 S. VEGETAL = 3.92 m<sup>2</sup>.



**Pk=2+885**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.63 m<sup>2</sup>.  
 S. TERRAPLEN = 0.68 m<sup>2</sup>.  
 S. VEGETAL = 3.78 m<sup>2</sup>.



**Pk=2+900**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.07 m<sup>2</sup>.  
 S. TERRAPLEN = 1.51 m<sup>2</sup>.  
 S. VEGETAL = 3.84 m<sup>2</sup>.



Proyecto:  
 Parque eólico en  
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Autor:  
 Emilio Ángel  
 Serantes Carro

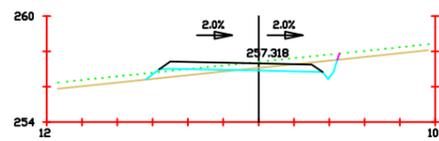
Firma:

Fecha:  
 Junio 2017

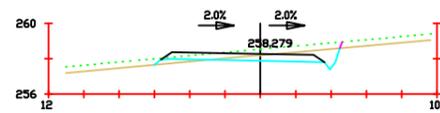
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 34

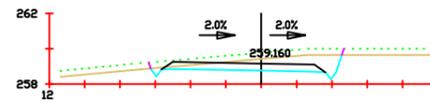
Escala:  
 1/200



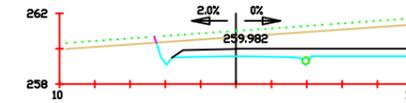
**Pk=2+905**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.01 m<sup>2</sup>.  
 S. TERRAPLEN = 1.40 m<sup>2</sup>.  
 S. VEGETAL = 3.81 m<sup>2</sup>.



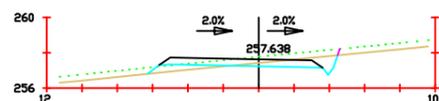
**Pk=2+920**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.01 m<sup>2</sup>.  
 S. TERRAPLEN = 0.46 m<sup>2</sup>.  
 S. VEGETAL = 3.70 m<sup>2</sup>.



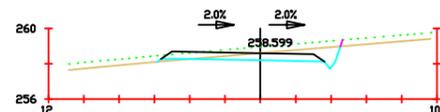
**Pk=2+935**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 6.16 m<sup>2</sup>.  
 S. VEGETAL = 3.83 m<sup>2</sup>.



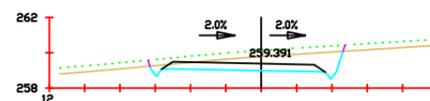
**Pk=2+960**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 10.26 m<sup>2</sup>.  
 S. VEGETAL = 3.28 m<sup>2</sup>.



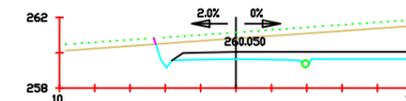
**Pk=2+910**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.21 m<sup>2</sup>.  
 S. TERRAPLEN = 1.07 m<sup>2</sup>.  
 S. VEGETAL = 3.78 m<sup>2</sup>.



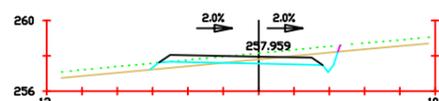
**Pk=2+925**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.70 m<sup>2</sup>.  
 S. TERRAPLEN = 0.16 m<sup>2</sup>.  
 S. VEGETAL = 3.65 m<sup>2</sup>.



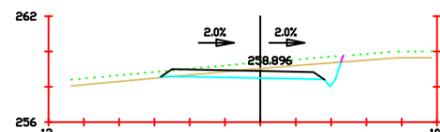
**Pk=2+940**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 7.62 m<sup>2</sup>.  
 S. VEGETAL = 3.87 m<sup>2</sup>.



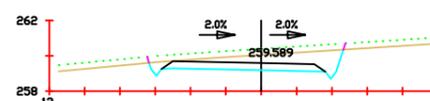
**Pk=2+980**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 10.99 m<sup>2</sup>.  
 S. VEGETAL = 3.30 m<sup>2</sup>.



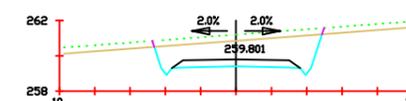
**Pk=2+915**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. D TIERRA = 2.53 m<sup>2</sup>.  
 S. TERRAPLEN = 0.81 m<sup>2</sup>.  
 S. VEGETAL = 3.75 m<sup>2</sup>.



**Pk=2+930**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.83 m<sup>2</sup>.  
 S. TERRAPLEN = 0.02 m<sup>2</sup>.  
 S. VEGETAL = 3.62 m<sup>2</sup>.



**Pk=2+945**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 8.64 m<sup>2</sup>.  
 S. VEGETAL = 3.89 m<sup>2</sup>.



**Pk=3+000**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 13.75 m<sup>2</sup>.  
 S. VEGETAL = 3.37 m<sup>2</sup>.



Proyecto:  
 Parque eólico en  
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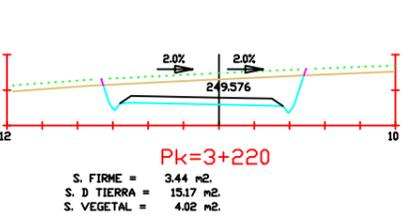
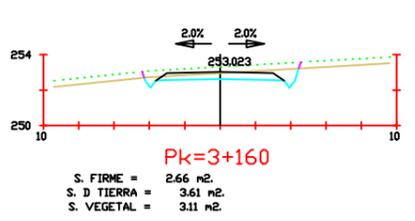
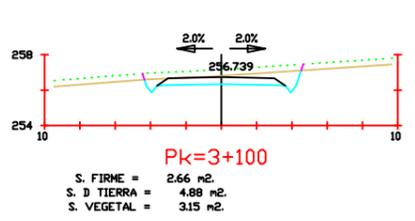
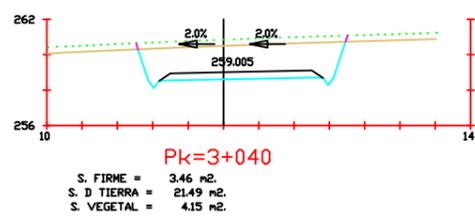
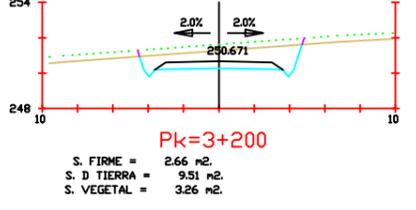
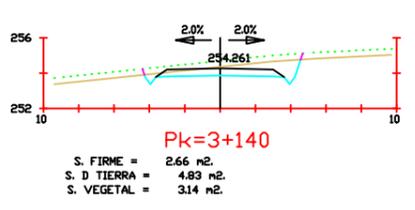
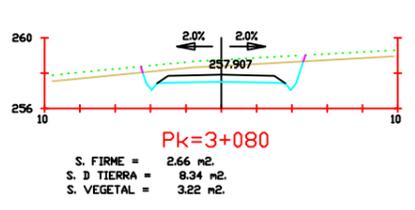
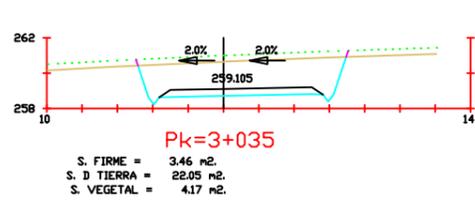
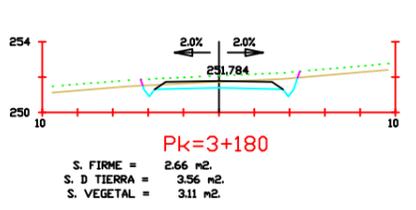
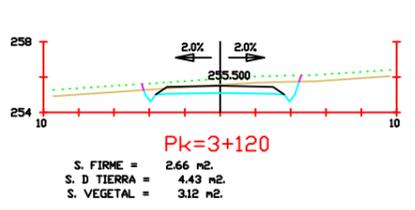
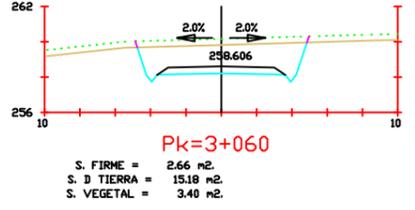
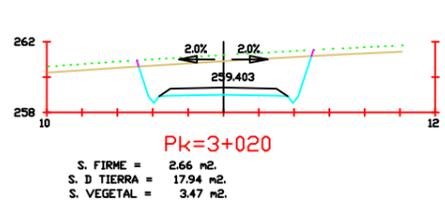
Firma:

Fecha:  
 Junio 2017

Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº Hoja:  
 35

Escala:  
 1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

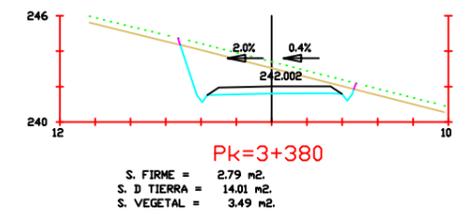
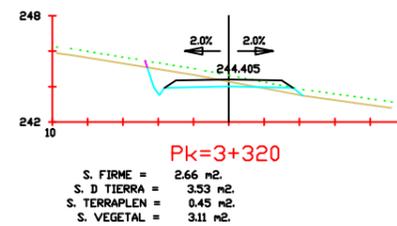
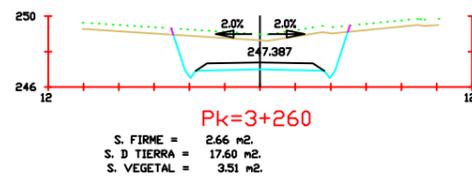
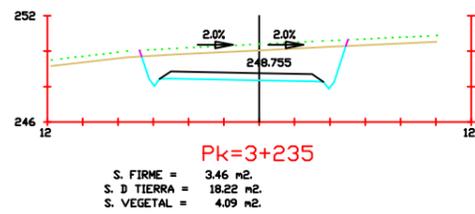
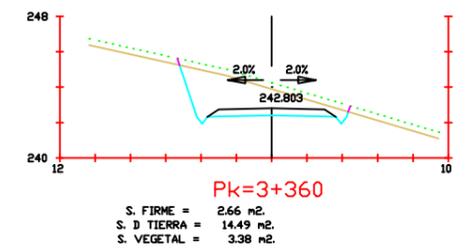
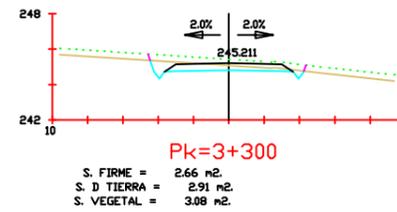
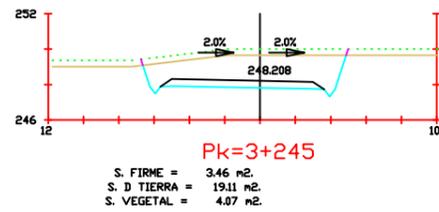
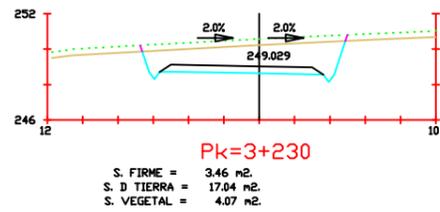
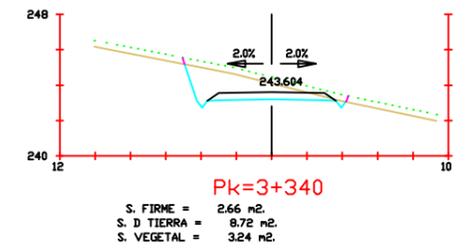
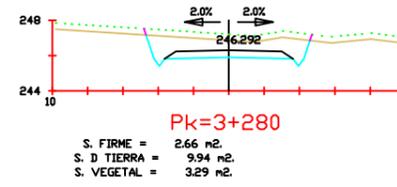
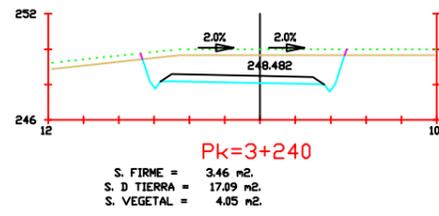
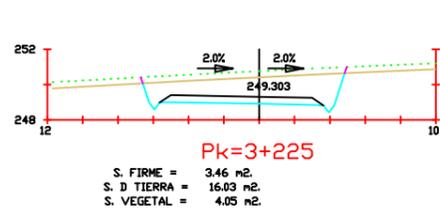
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
36

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

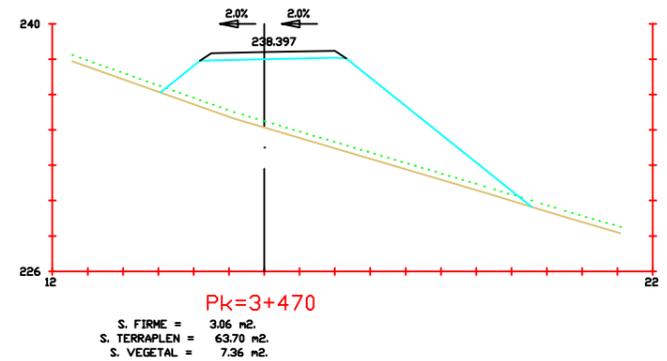
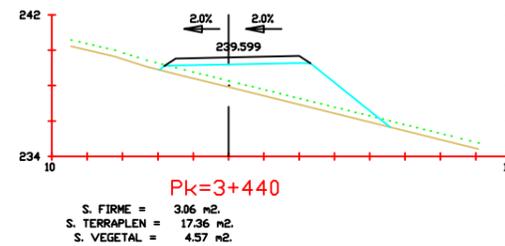
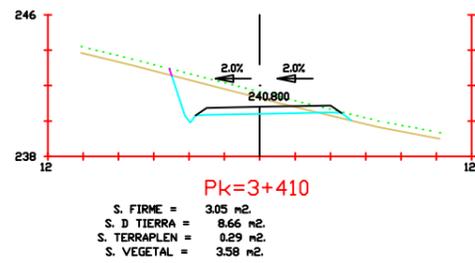
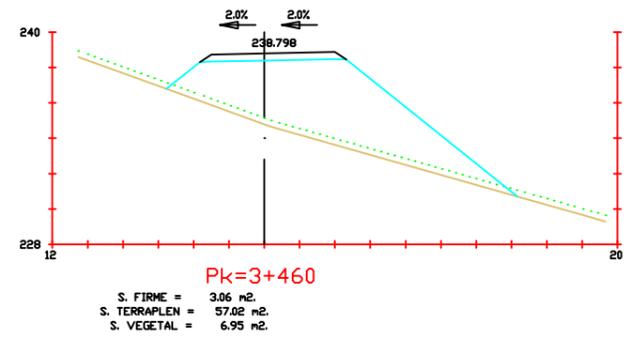
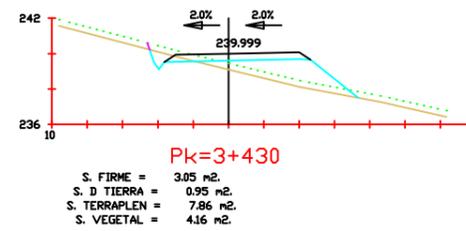
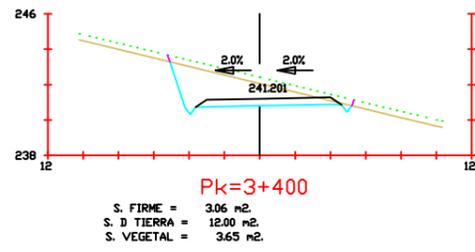
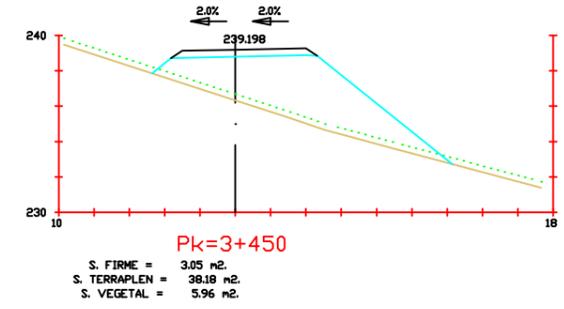
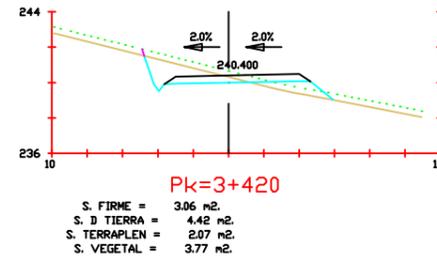
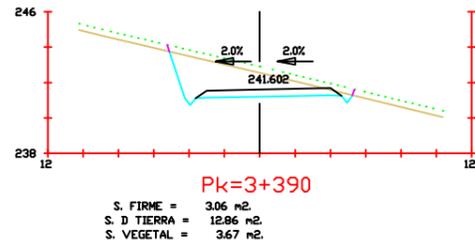
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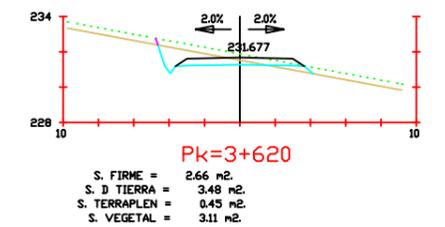
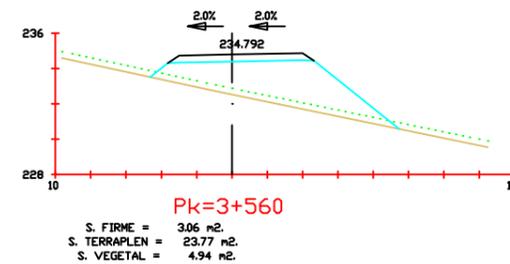
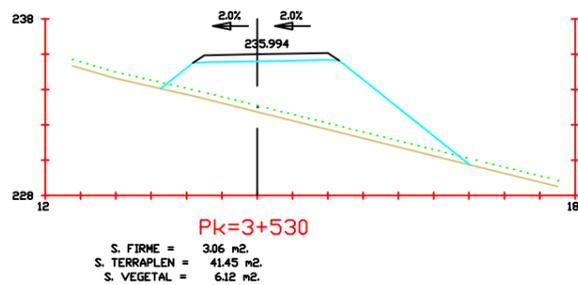
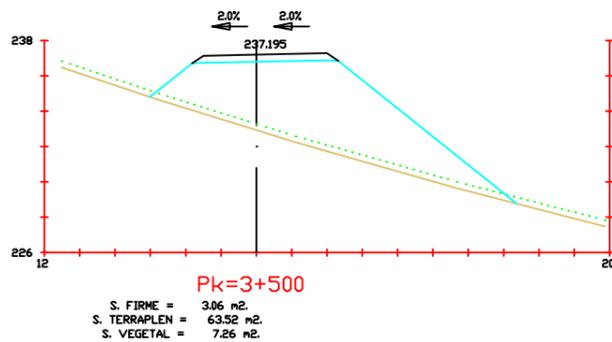
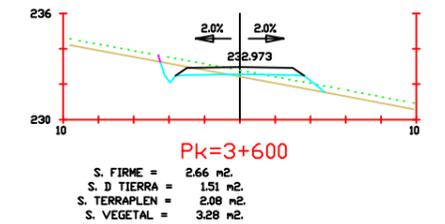
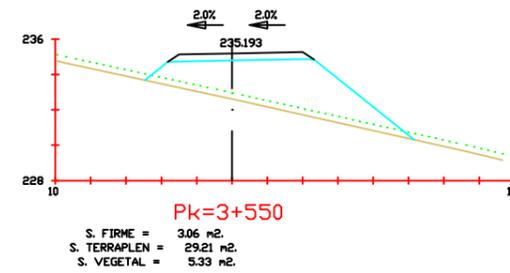
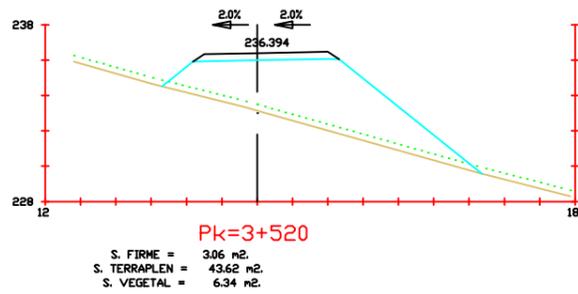
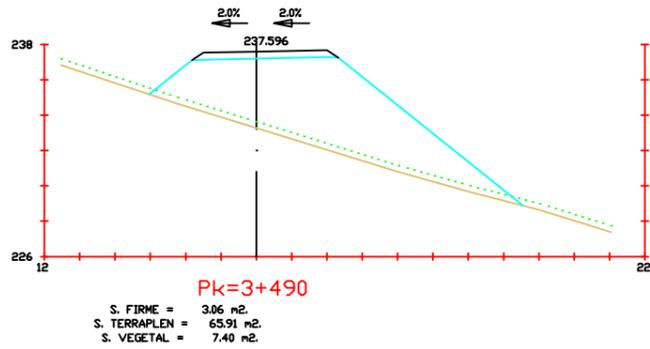
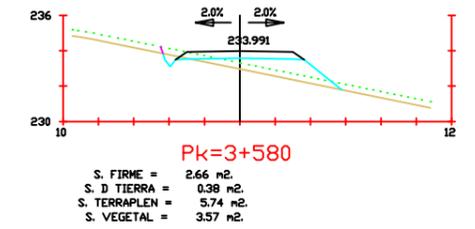
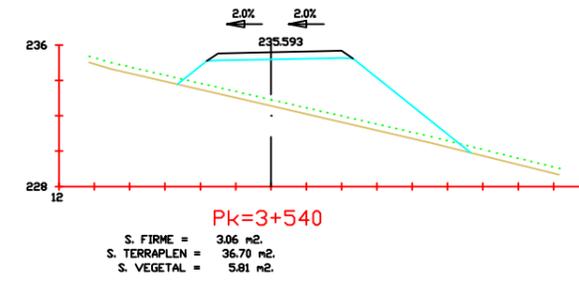
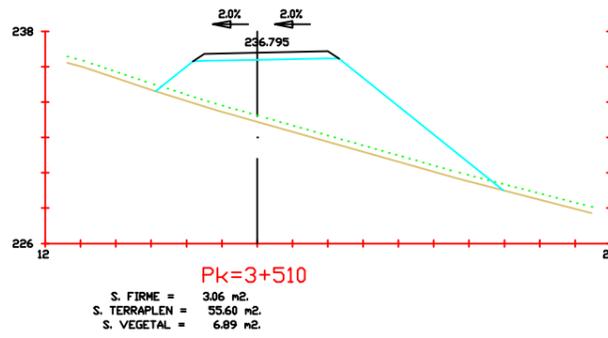
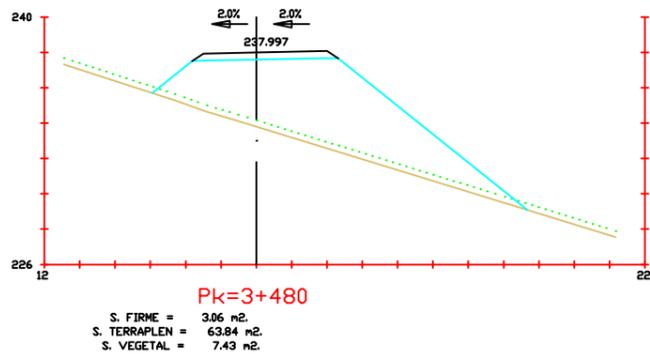
Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
37

Escala:  
1/200





Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

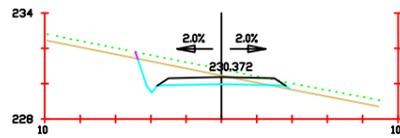
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

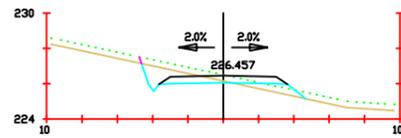
Nº plano:  
4  
Nº hoja:  
39

Escala:  
1/200



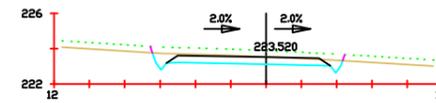
**Pk=3+640**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 5.22 m<sup>2</sup>  
 S. TERRAPLEN = 0.09 m<sup>2</sup>  
 S. VEGETAL = 3.04 m<sup>2</sup>



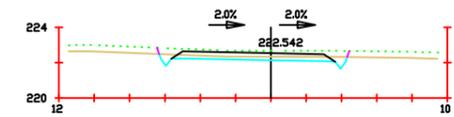
**Pk=3+700**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 2.84 m<sup>2</sup>  
 S. TERRAPLEN = 1.28 m<sup>2</sup>  
 S. VEGETAL = 3.27 m<sup>2</sup>



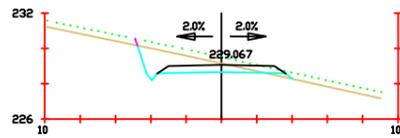
**Pk=3+745**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 4.81 m<sup>2</sup>  
 S. VEGETAL = 3.81 m<sup>2</sup>



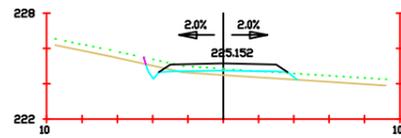
**Pk=3+760**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 2.38 m<sup>2</sup>  
 S. VEGETAL = 3.77 m<sup>2</sup>



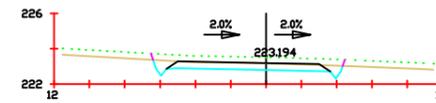
**Pk=3+660**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 5.31 m<sup>2</sup>  
 S. TERRAPLEN = 0.18 m<sup>2</sup>  
 S. VEGETAL = 3.10 m<sup>2</sup>



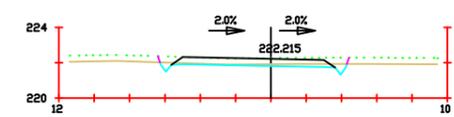
**Pk=3+720**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 0.51 m<sup>2</sup>  
 S. TERRAPLEN = 1.73 m<sup>2</sup>  
 S. VEGETAL = 3.03 m<sup>2</sup>



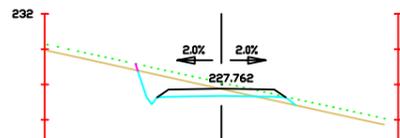
**Pk=3+750**

S. FIRME = 3.45 m<sup>2</sup>  
 S. D TIERRA = 4.23 m<sup>2</sup>  
 S. VEGETAL = 3.80 m<sup>2</sup>



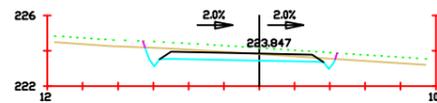
**Pk=3+765**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 1.28 m<sup>2</sup>  
 S. VEGETAL = 3.75 m<sup>2</sup>



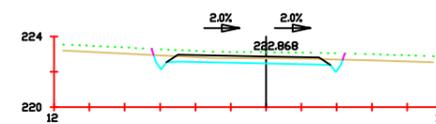
**Pk=3+680**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 4.61 m<sup>2</sup>  
 S. TERRAPLEN = 0.39 m<sup>2</sup>  
 S. VEGETAL = 3.15 m<sup>2</sup>



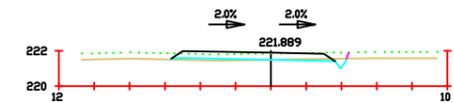
**Pk=3+740**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 4.57 m<sup>2</sup>  
 S. VEGETAL = 3.80 m<sup>2</sup>



**Pk=3+755**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 3.39 m<sup>2</sup>  
 S. VEGETAL = 3.79 m<sup>2</sup>



**Pk=3+770**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 0.47 m<sup>2</sup>  
 S. TERRAPLEN = 0.41 m<sup>2</sup>  
 S. VEGETAL = 3.52 m<sup>2</sup>



Proyecto:  
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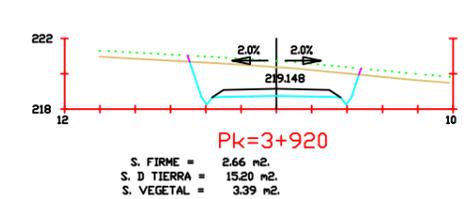
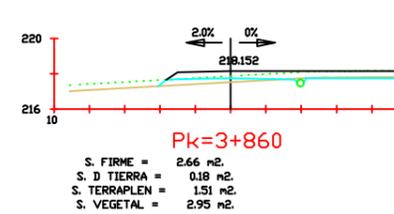
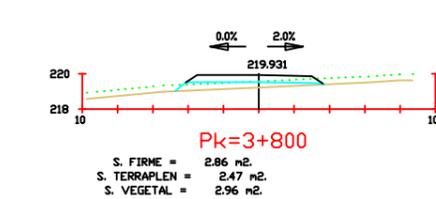
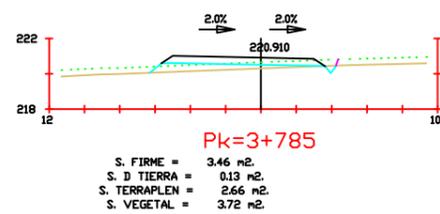
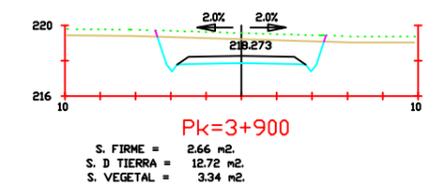
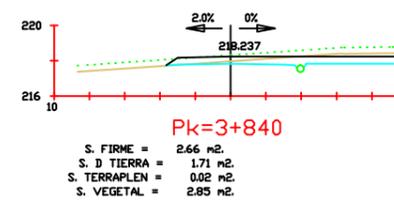
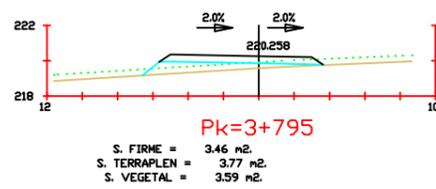
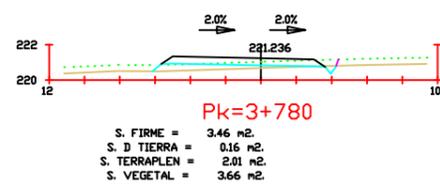
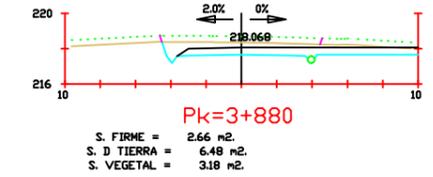
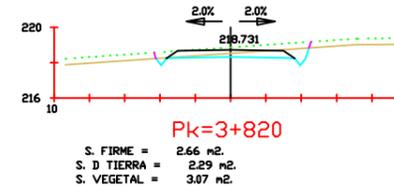
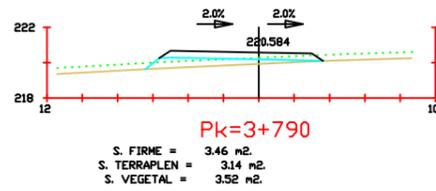
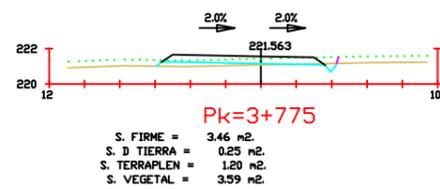
Firma:

Fecha:  
 Junio 2017

Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 40

Escala:  
 1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

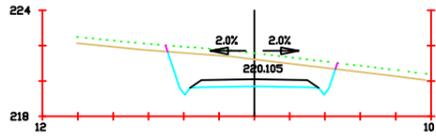
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

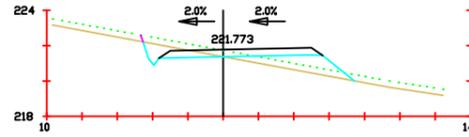
Nº plano:  
4  
Nº hoja:  
41

Escala:  
1/200



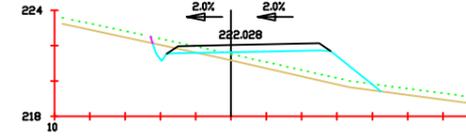
**Pk=3+940**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 14.18 m<sup>2</sup>.  
S. VEGETAL = 3.37 m<sup>2</sup>.



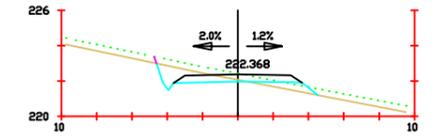
**Pk=3+985**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 2.13 m<sup>2</sup>.  
S. TERRAPLEN = 4.19 m<sup>2</sup>.  
S. VEGETAL = 4.22 m<sup>2</sup>.



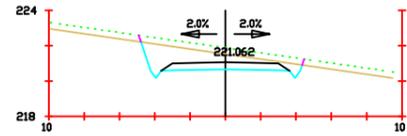
**Pk=4+000**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 0.80 m<sup>2</sup>.  
S. TERRAPLEN = 9.62 m<sup>2</sup>.  
S. VEGETAL = 4.53 m<sup>2</sup>.



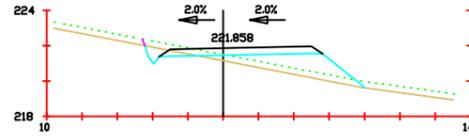
**Pk=4+020**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 2.73 m<sup>2</sup>.  
S. TERRAPLEN = 1.08 m<sup>2</sup>.  
S. VEGETAL = 3.22 m<sup>2</sup>.



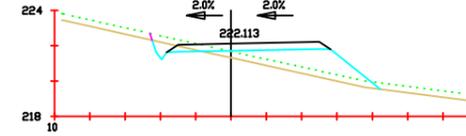
**Pk=3+960**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 8.39 m<sup>2</sup>.  
S. VEGETAL = 3.24 m<sup>2</sup>.



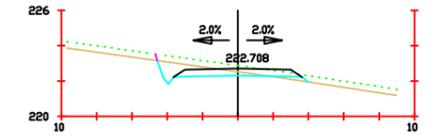
**Pk=3+990**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 0.99 m<sup>2</sup>.  
S. TERRAPLEN = 7.14 m<sup>2</sup>.  
S. VEGETAL = 4.39 m<sup>2</sup>.



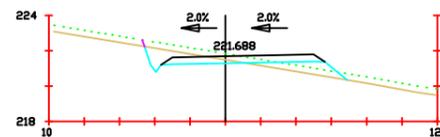
**Pk=4+005**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 1.02 m<sup>2</sup>.  
S. TERRAPLEN = 8.83 m<sup>2</sup>.  
S. VEGETAL = 4.54 m<sup>2</sup>.



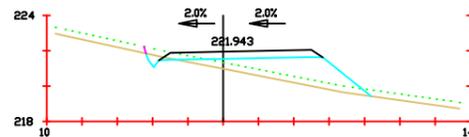
**Pk=4+040**

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 2.80 m<sup>2</sup>.  
S. TERRAPLEN = 0.24 m<sup>2</sup>.  
S. VEGETAL = 3.01 m<sup>2</sup>.



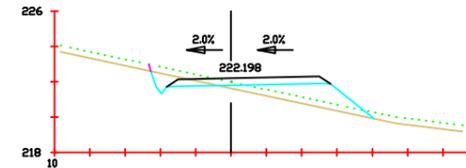
**Pk=3+980**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 2.88 m<sup>2</sup>.  
S. TERRAPLEN = 2.45 m<sup>2</sup>.  
S. VEGETAL = 4.04 m<sup>2</sup>.



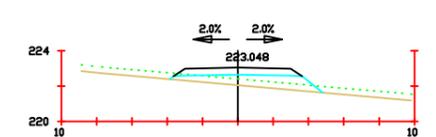
**Pk=3+995**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 0.44 m<sup>2</sup>.  
S. TERRAPLEN = 9.79 m<sup>2</sup>.  
S. VEGETAL = 4.48 m<sup>2</sup>.



**Pk=4+010**

S. FIRME = 3.46 m<sup>2</sup>.  
S. D TIERRA = 1.69 m<sup>2</sup>.  
S. TERRAPLEN = 6.48 m<sup>2</sup>.  
S. VEGETAL = 4.44 m<sup>2</sup>.



**Pk=4+060**

S. FIRME = 2.66 m<sup>2</sup>.  
S. TERRAPLEN = 4.56 m<sup>2</sup>.  
S. VEGETAL = 3.03 m<sup>2</sup>.



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Parque eólico en  
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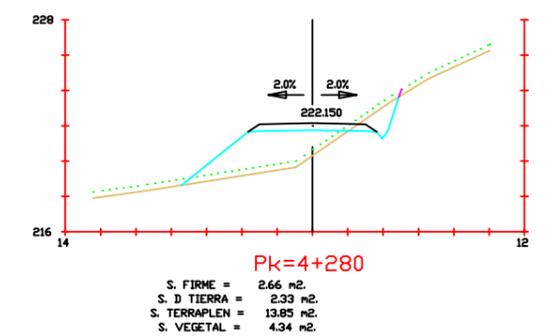
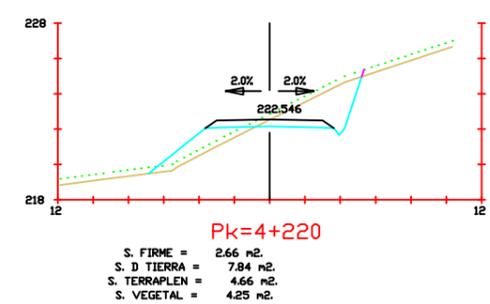
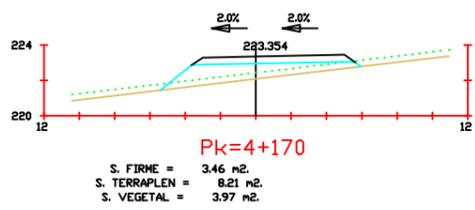
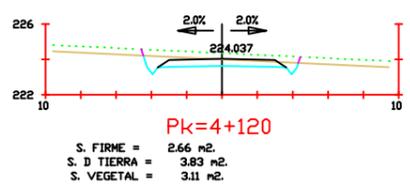
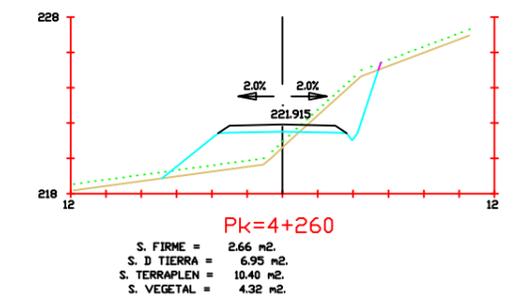
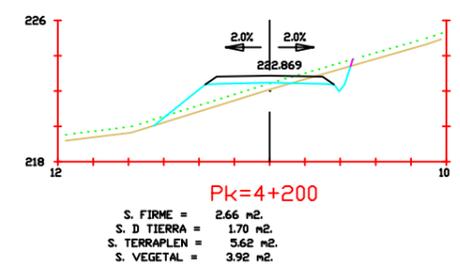
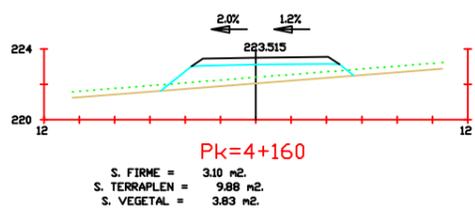
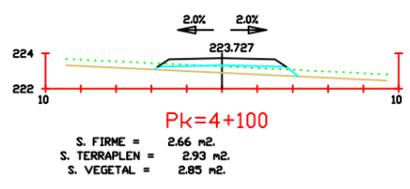
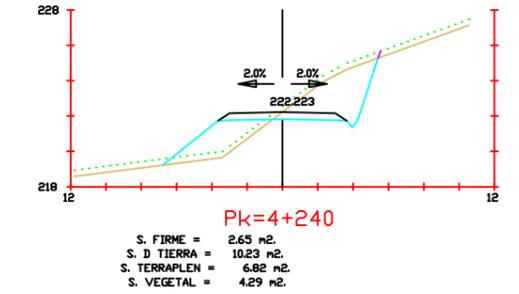
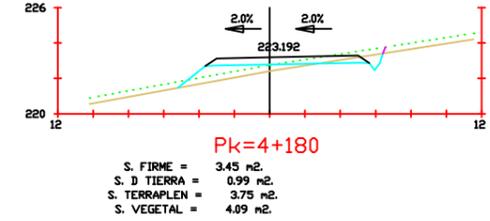
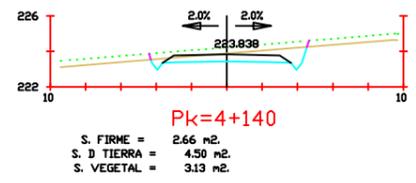
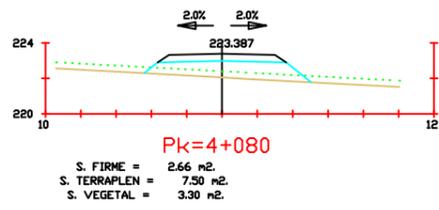
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº Hoja:  
42

Escala:  
1/200



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Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

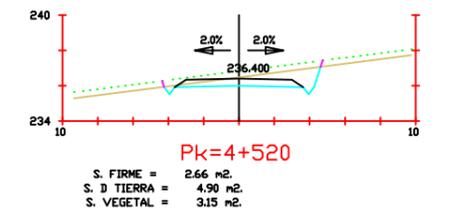
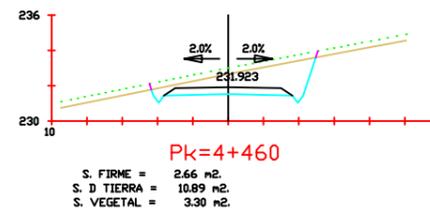
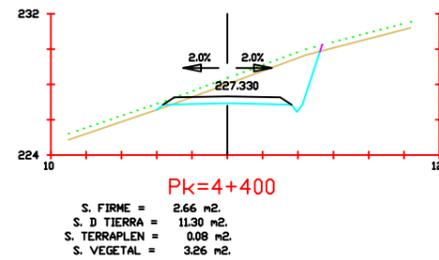
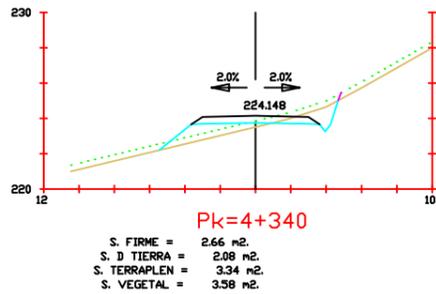
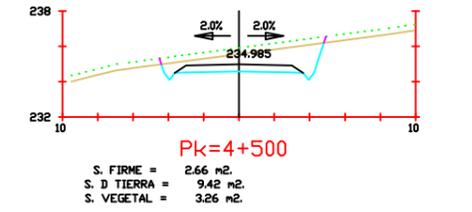
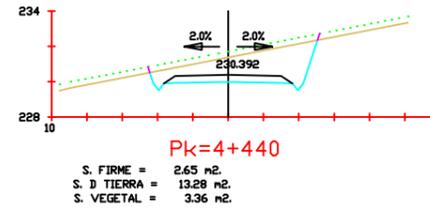
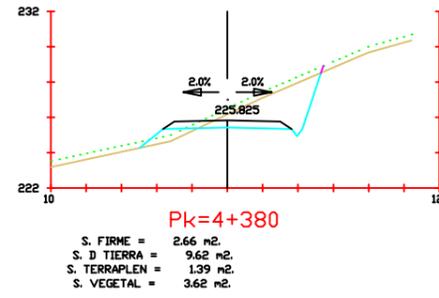
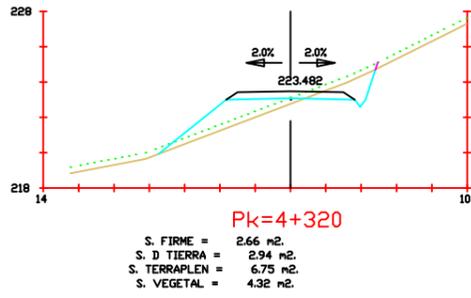
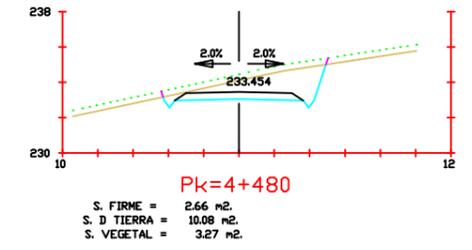
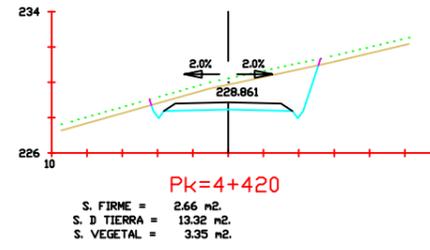
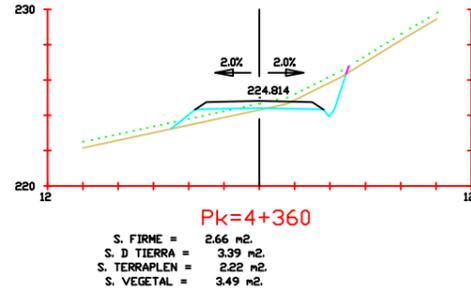
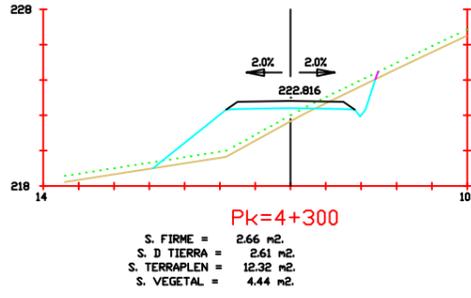
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº Hoja:  
43

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

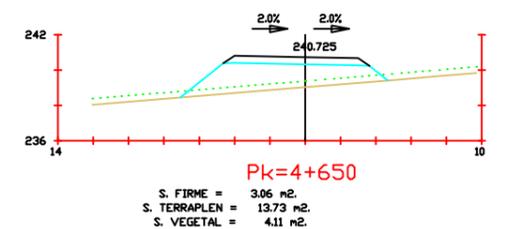
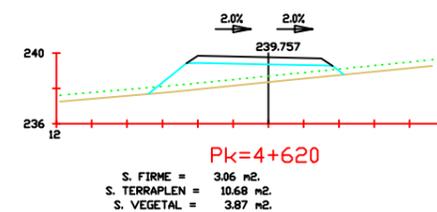
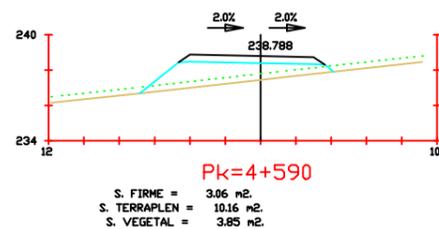
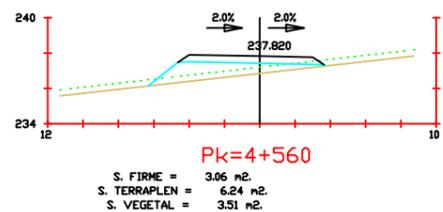
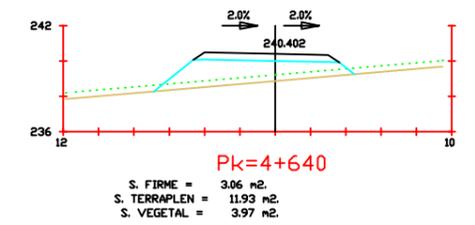
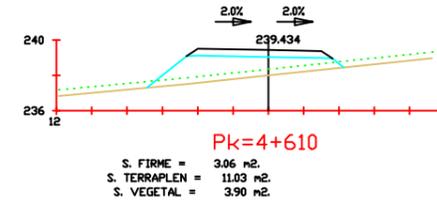
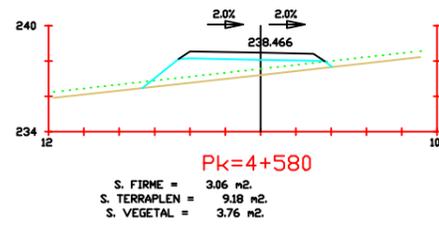
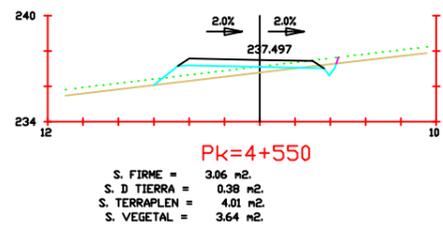
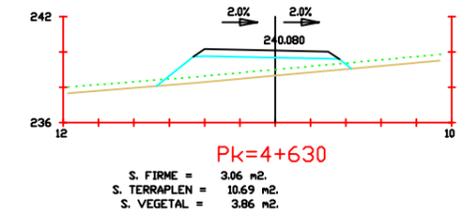
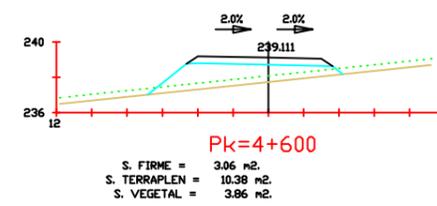
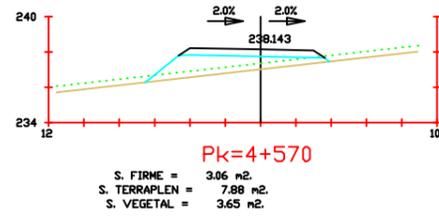
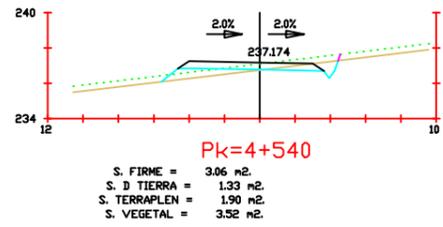
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
44

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

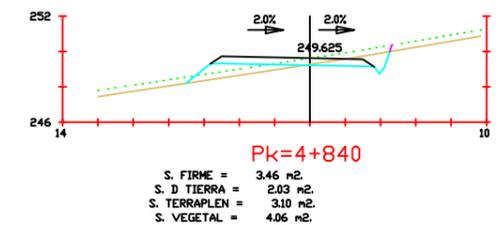
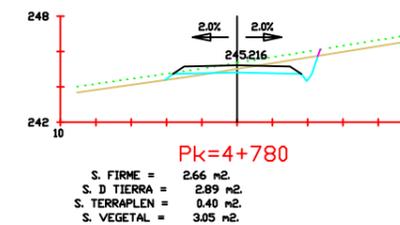
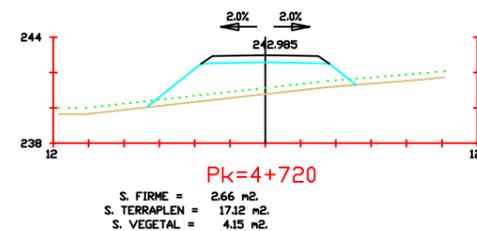
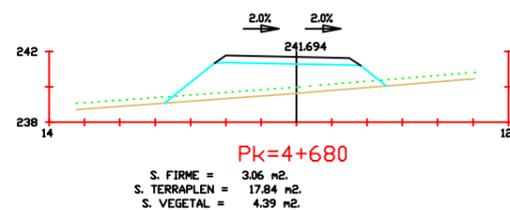
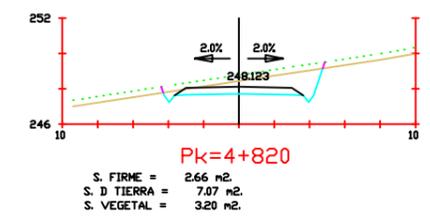
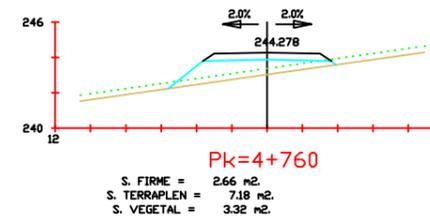
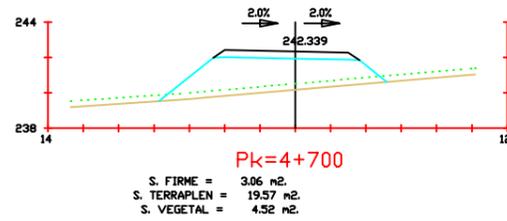
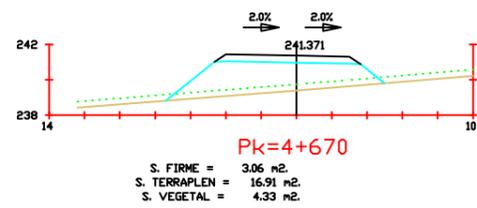
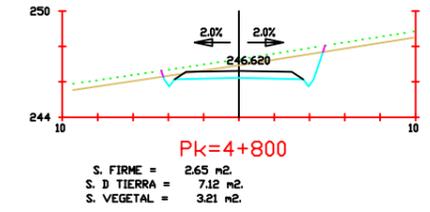
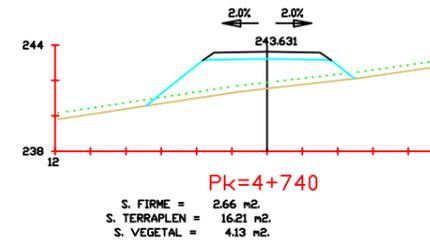
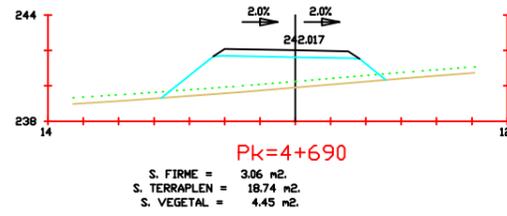
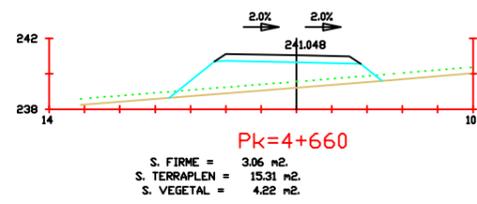
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
45

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

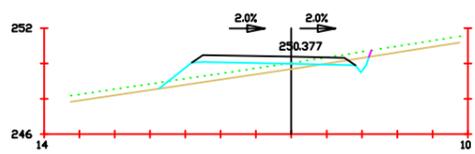
Firma:  
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Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

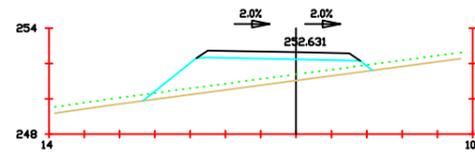
Nº plano:  
4  
Nº hoja:  
46

Escala:  
1/200



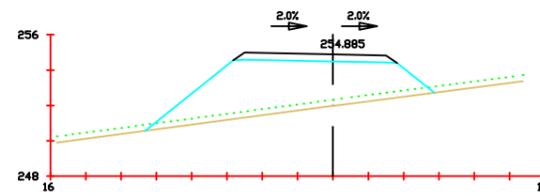
**Pk=4+850**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 0.74 m<sup>2</sup>.  
 S. TERRAPLEN = 5.74 m<sup>2</sup>.  
 S. VEGETAL = 4.18 m<sup>2</sup>.



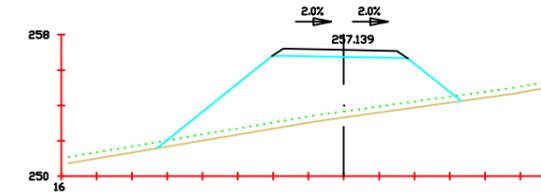
**Pk=4+880**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 15.73 m<sup>2</sup>.  
 S. VEGETAL = 4.54 m<sup>2</sup>.



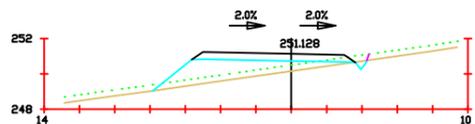
**Pk=4+910**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 35.09 m<sup>2</sup>.  
 S. VEGETAL = 5.73 m<sup>2</sup>.



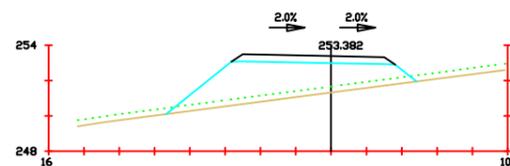
**Pk=4+940**

S. FIRME = 2.83 m<sup>2</sup>.  
 S. TERRAPLEN = 44.37 m<sup>2</sup>.  
 S. VEGETAL = 6.03 m<sup>2</sup>.



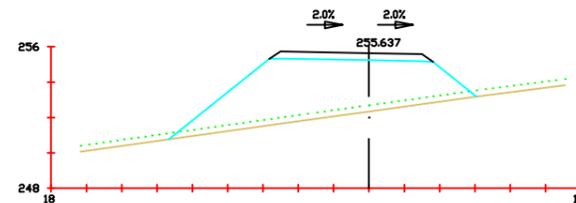
**Pk=4+860**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 0.16 m<sup>2</sup>.  
 S. TERRAPLEN = 8.46 m<sup>2</sup>.  
 S. VEGETAL = 4.26 m<sup>2</sup>.



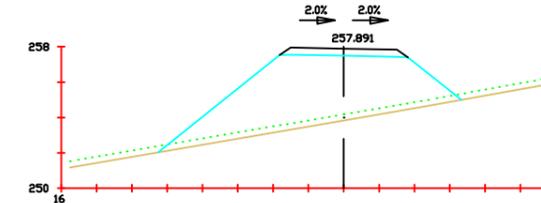
**Pk=4+890**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 22.11 m<sup>2</sup>.  
 S. VEGETAL = 4.96 m<sup>2</sup>.



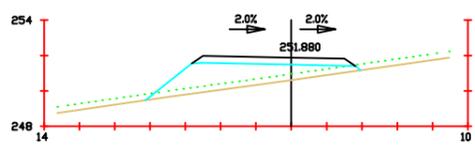
**Pk=4+920**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 41.84 m<sup>2</sup>.  
 S. VEGETAL = 6.10 m<sup>2</sup>.



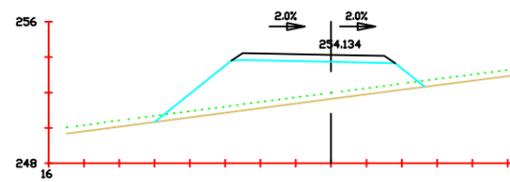
**Pk=4+950**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 45.89 m<sup>2</sup>.  
 S. VEGETAL = 6.01 m<sup>2</sup>.



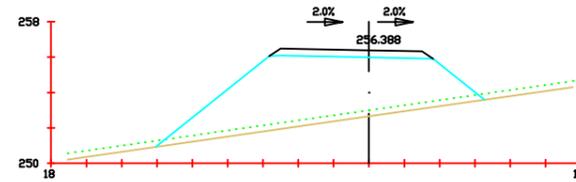
**Pk=4+870**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 11.83 m<sup>2</sup>.  
 S. VEGETAL = 4.26 m<sup>2</sup>.



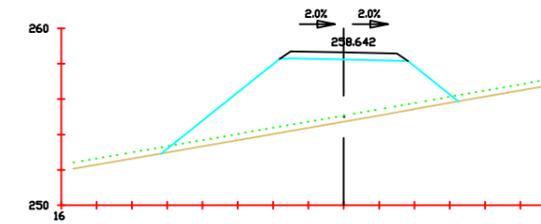
**Pk=4+900**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 28.41 m<sup>2</sup>.  
 S. VEGETAL = 5.34 m<sup>2</sup>.



**Pk=4+930**

S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 50.01 m<sup>2</sup>.  
 S. VEGETAL = 6.51 m<sup>2</sup>.



**Pk=4+960**

S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 43.51 m<sup>2</sup>.  
 S. VEGETAL = 5.88 m<sup>2</sup>.



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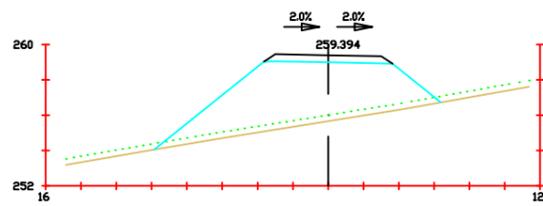
Firma:

Fecha:  
 Junio 2017

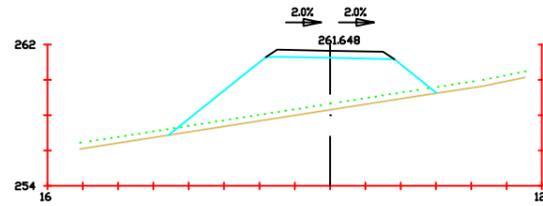
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 47

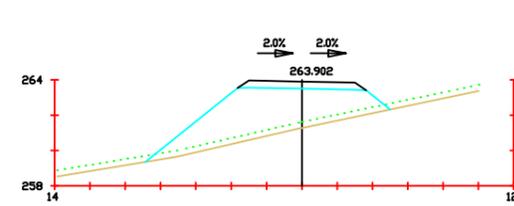
Escala:  
 1/200



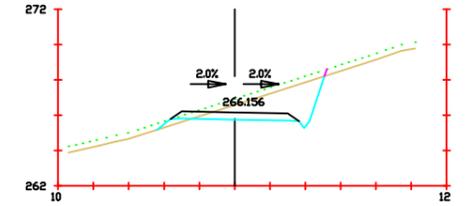
**Pk=4+970**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 40.04 m<sup>2</sup>.  
 S. VEGETAL = 5.68 m<sup>2</sup>.



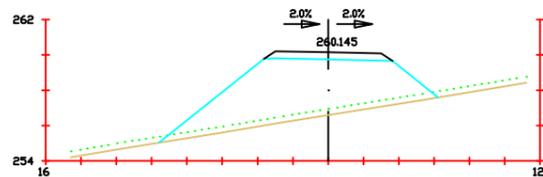
**Pk=5+000**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 33.90 m<sup>2</sup>.  
 S. VEGETAL = 5.31 m<sup>2</sup>.



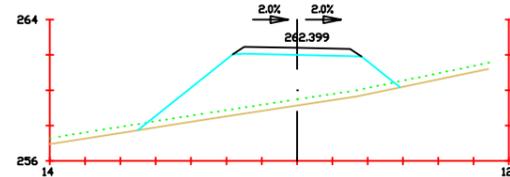
**Pk=5+030**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 25.52 m<sup>2</sup>.  
 S. VEGETAL = 4.85 m<sup>2</sup>.



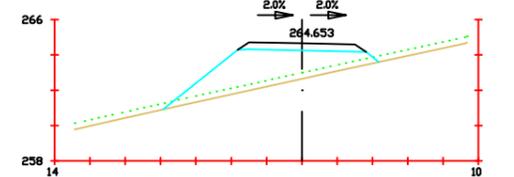
**Pk=5+060**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 8.68 m<sup>2</sup>.  
 S. TERRAPLEN = 0.37 m<sup>2</sup>.  
 S. VEGETAL = 3.34 m<sup>2</sup>.



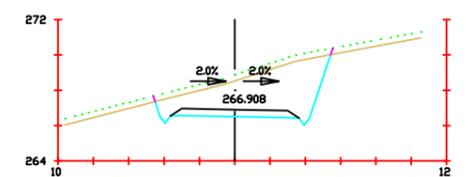
**Pk=4+980**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 37.36 m<sup>2</sup>.  
 S. VEGETAL = 5.53 m<sup>2</sup>.



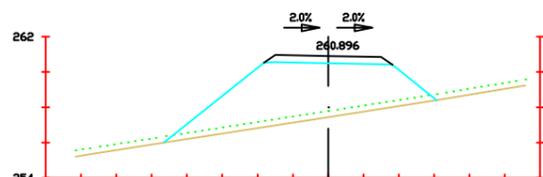
**Pk=5+010**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 32.44 m<sup>2</sup>.  
 S. VEGETAL = 5.19 m<sup>2</sup>.



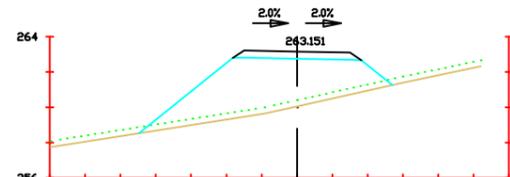
**Pk=5+040**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 17.09 m<sup>2</sup>.  
 S. VEGETAL = 4.27 m<sup>2</sup>.



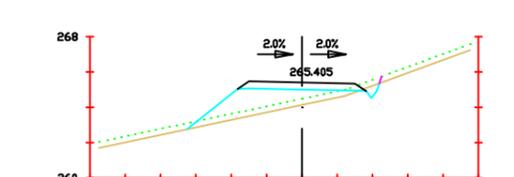
**Pk=5+070**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 20.01 m<sup>2</sup>.  
 S. VEGETAL = 3.52 m<sup>2</sup>.



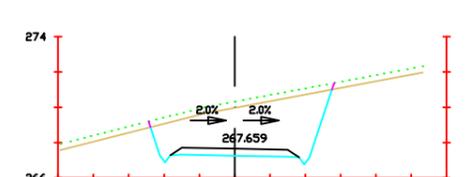
**Pk=4+990**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 35.57 m<sup>2</sup>.  
 S. VEGETAL = 5.41 m<sup>2</sup>.



**Pk=5+020**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. TERRAPLEN = 30.14 m<sup>2</sup>.  
 S. VEGETAL = 5.02 m<sup>2</sup>.



**Pk=5+050**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 0.34 m<sup>2</sup>.  
 S. TERRAPLEN = 8.65 m<sup>2</sup>.  
 S. VEGETAL = 3.83 m<sup>2</sup>.



**Pk=5+080**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 25.85 m<sup>2</sup>.  
 S. VEGETAL = 3.64 m<sup>2</sup>.



Proyecto:  
 Parque eólico en  
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Autor:  
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 Serantes Carro

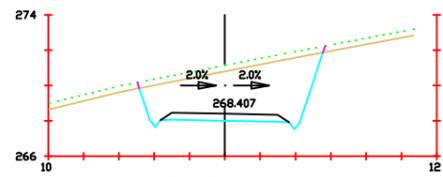
Firma:

Fecha:  
 Junio 2017

Título del  
 plano:  
 Perfiles transversales

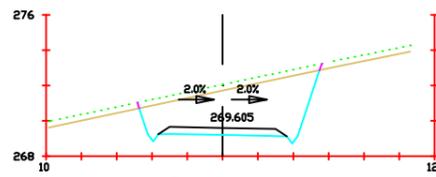
Nº plano:  
 4  
 Nº Hoja:  
 48

Escala:  
 1/200



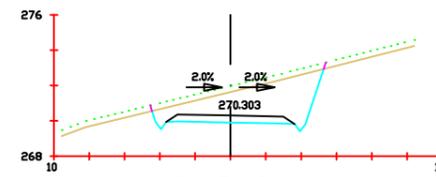
Pk=5+090

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 26.91 m<sup>2</sup>.  
S. VEGETAL = 3.68 m<sup>2</sup>.



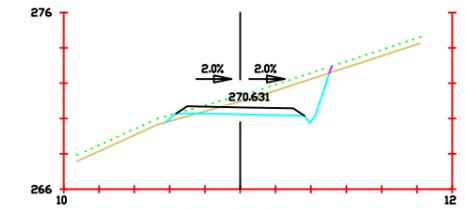
Pk=5+110

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 24.06 m<sup>2</sup>.  
S. VEGETAL = 3.62 m<sup>2</sup>.



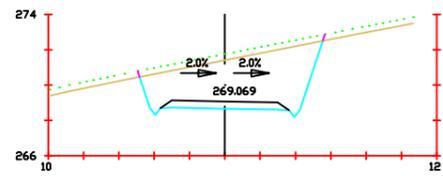
Pk=5+130

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 16.44 m<sup>2</sup>.  
S. VEGETAL = 3.44 m<sup>2</sup>.



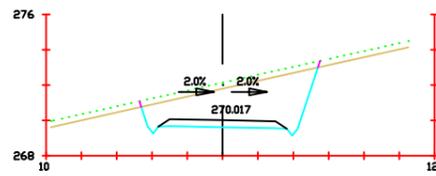
Pk=5+150

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 7.96 m<sup>2</sup>.  
S. TERRAPLEN = 0.30 m<sup>2</sup>.  
S. VEGETAL = 3.28 m<sup>2</sup>.



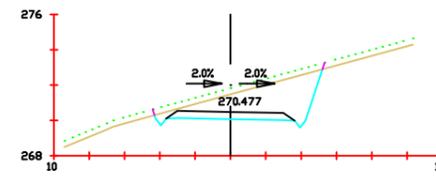
Pk=5+100

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 26.45 m<sup>2</sup>.  
S. VEGETAL = 3.67 m<sup>2</sup>.



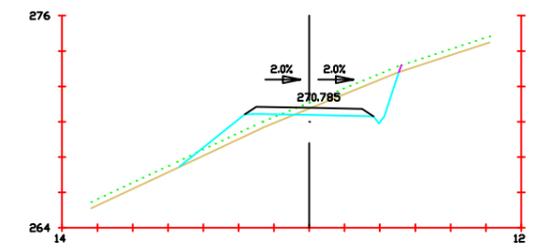
Pk=5+120

S. FIRME = 2.66 m<sup>2</sup>.  
S. D TIERRA = 20.80 m<sup>2</sup>.  
S. VEGETAL = 3.54 m<sup>2</sup>.



Pk=5+140

S. FIRME = 2.65 m<sup>2</sup>.  
S. D TIERRA = 13.42 m<sup>2</sup>.  
S. VEGETAL = 3.37 m<sup>2</sup>.



Pk=5+160

S. FIRME = 2.65 m<sup>2</sup>.  
S. D TIERRA = 6.53 m<sup>2</sup>.  
S. TERRAPLEN = 4.00 m<sup>2</sup>.  
S. VEGETAL = 4.37 m<sup>2</sup>.



Proyecto:  
Parque eólico en  
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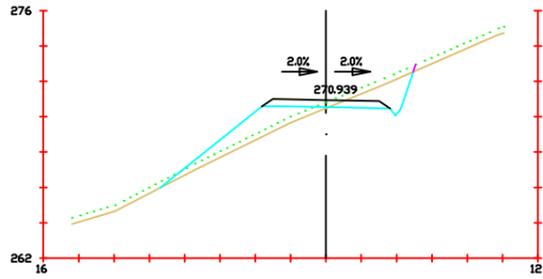
Firma:

Fecha:  
Junio 2017

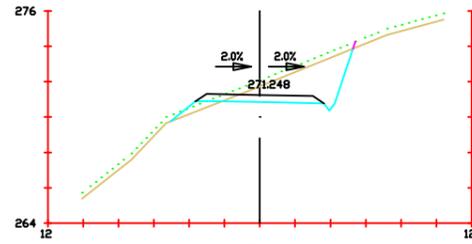
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
49

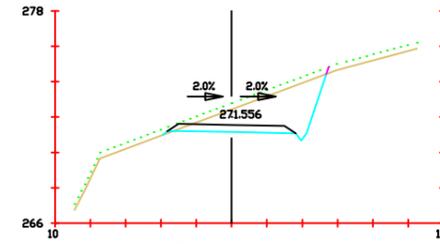
Escala:  
1/200



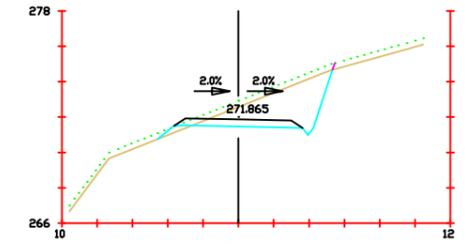
**Pk=5+170**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 4.33 m<sup>2</sup>.  
 S. TERRAPLEN = 8.00 m<sup>2</sup>.  
 S. VEGETAL = 5.03 m<sup>2</sup>.



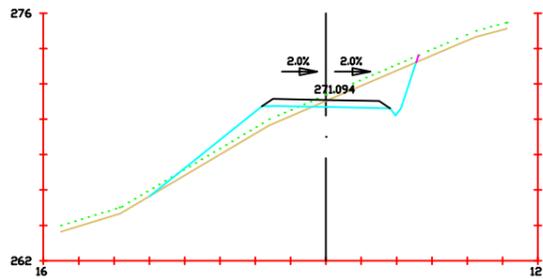
**Pk=5+190**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 10.02 m<sup>2</sup>.  
 S. TERRAPLEN = 0.86 m<sup>2</sup>.  
 S. VEGETAL = 3.64 m<sup>2</sup>.



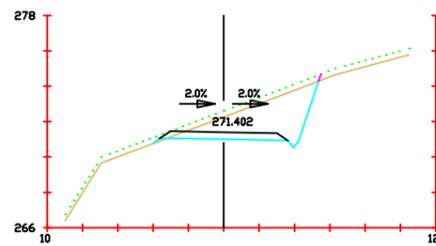
**Pk=5+210**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 12.83 m<sup>2</sup>.  
 S. TERRAPLEN = 0.03 m<sup>2</sup>.  
 S. VEGETAL = 3.26 m<sup>2</sup>.



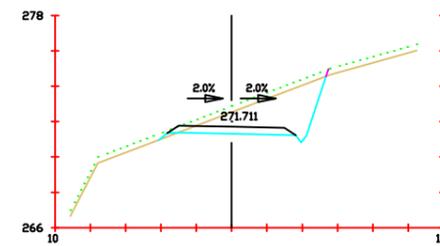
**Pk=5+230**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 11.61 m<sup>2</sup>.  
 S. TERRAPLEN = 0.37 m<sup>2</sup>.  
 S. VEGETAL = 3.49 m<sup>2</sup>.



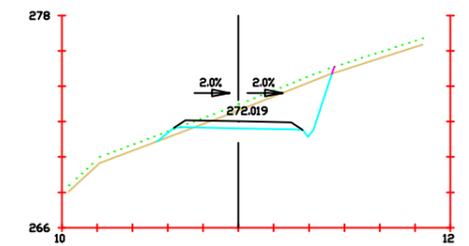
**Pk=5+180**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 6.69 m<sup>2</sup>.  
 S. TERRAPLEN = 6.09 m<sup>2</sup>.  
 S. VEGETAL = 5.31 m<sup>2</sup>.



**Pk=5+200**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 12.66 m<sup>2</sup>.  
 S. TERRAPLEN = 0.06 m<sup>2</sup>.  
 S. VEGETAL = 3.29 m<sup>2</sup>.



**Pk=5+220**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 12.35 m<sup>2</sup>.  
 S. TERRAPLEN = 0.11 m<sup>2</sup>.  
 S. VEGETAL = 3.34 m<sup>2</sup>.



**Pk=5+240**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 10.89 m<sup>2</sup>.  
 S. TERRAPLEN = 0.44 m<sup>2</sup>.  
 S. VEGETAL = 3.49 m<sup>2</sup>.



Proyecto:  
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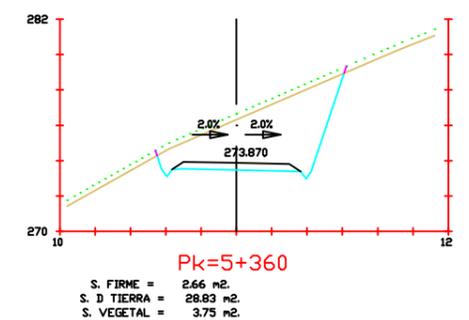
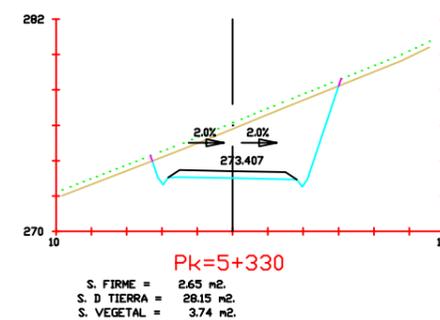
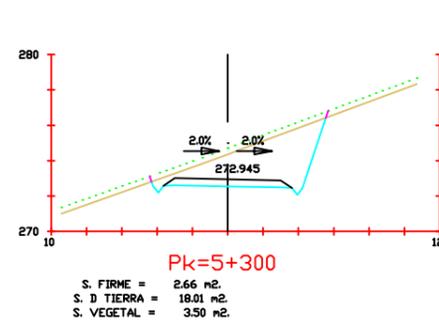
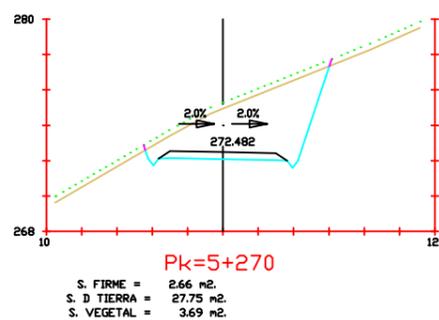
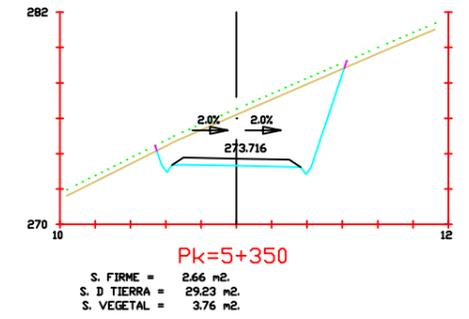
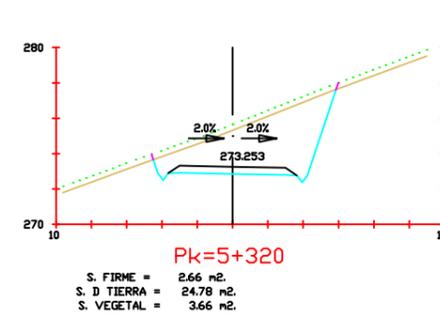
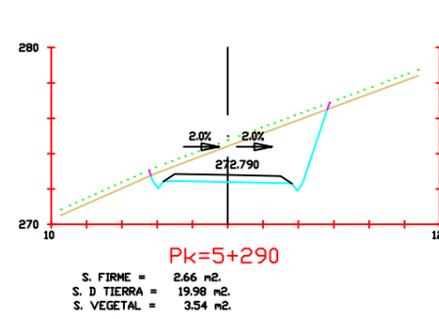
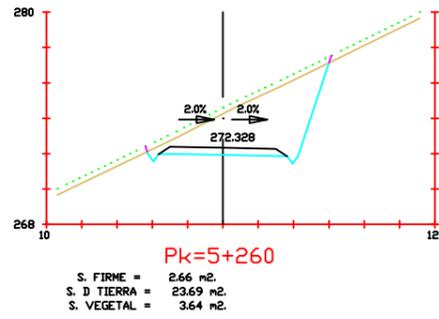
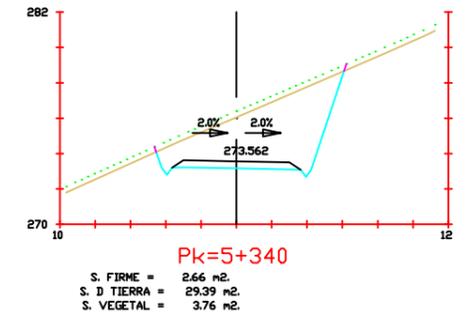
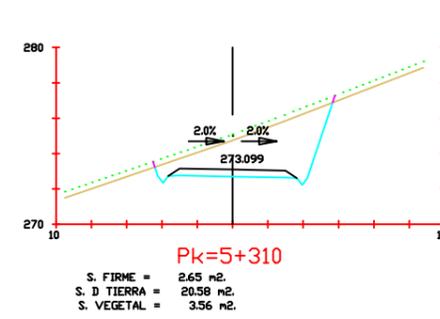
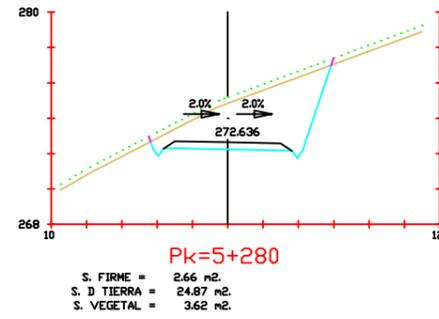
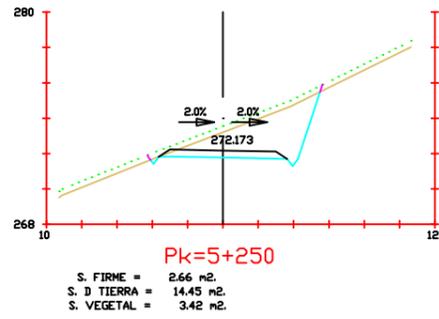
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
50

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

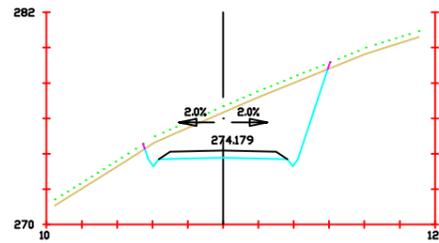
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

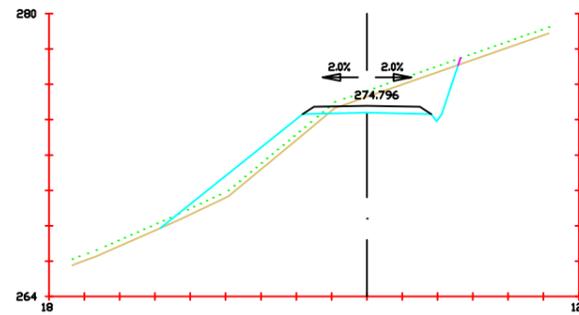
Nº plano:  
4  
Nº hoja:  
51

Escala:  
1/200



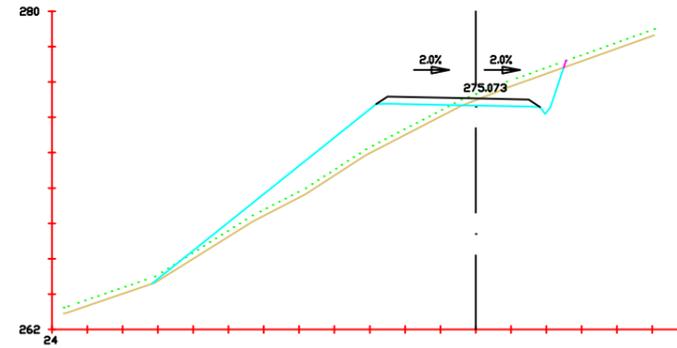
**Pk=5+380**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 26.00 m<sup>2</sup>  
 S. VEGETAL = 3.67 m<sup>2</sup>



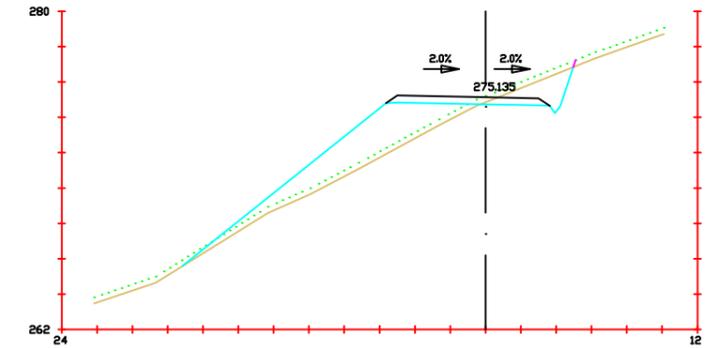
**Pk=5+420**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 9.52 m<sup>2</sup>  
 S. TERRAPLEN = 8.57 m<sup>2</sup>  
 S. VEGETAL = 5.92 m<sup>2</sup>



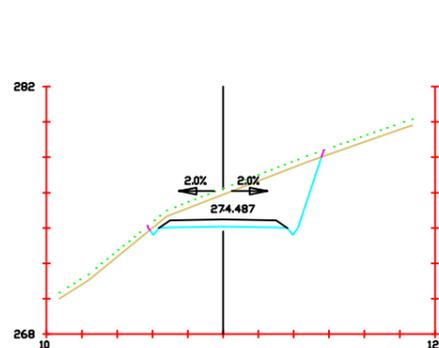
**Pk=5+438**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 5.88 m<sup>2</sup>  
 S. TERRAPLEN = 22.77 m<sup>2</sup>  
 S. VEGETAL = 8.18 m<sup>2</sup>



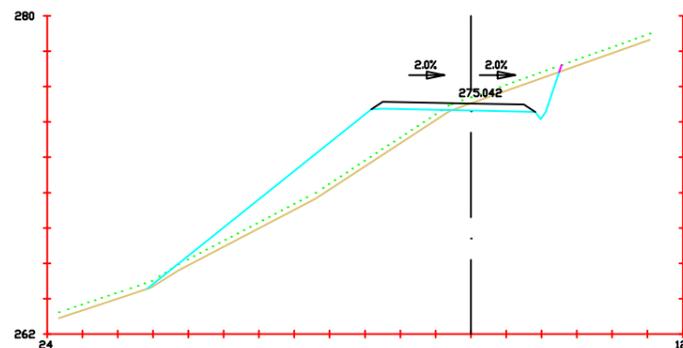
**Pk=5+442**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 5.13 m<sup>2</sup>  
 S. TERRAPLEN = 22.83 m<sup>2</sup>  
 S. VEGETAL = 7.77 m<sup>2</sup>



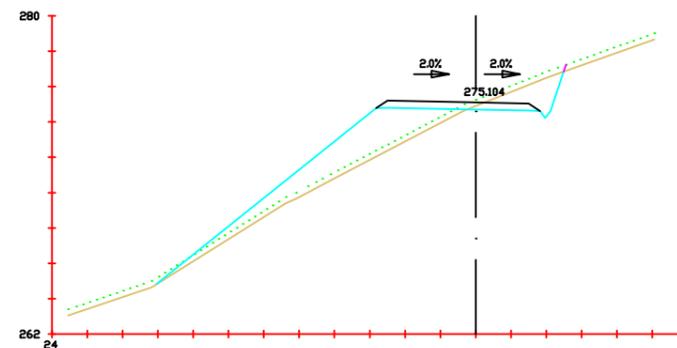
**Pk=5+400**

S. FIRME = 2.66 m<sup>2</sup>  
 S. D TIERRA = 18.04 m<sup>2</sup>  
 S. VEGETAL = 3.45 m<sup>2</sup>



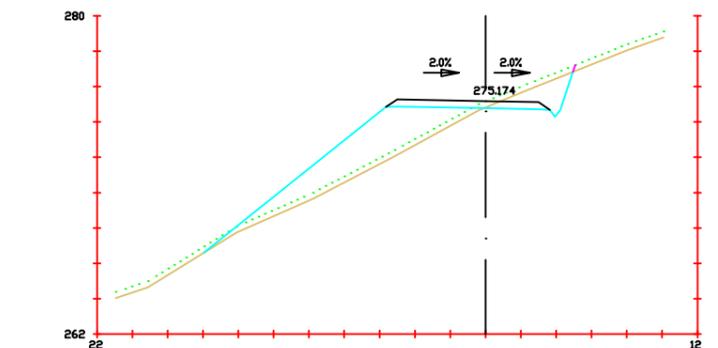
**Pk=5+436**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 6.19 m<sup>2</sup>  
 S. TERRAPLEN = 27.30 m<sup>2</sup>  
 S. VEGETAL = 8.18 m<sup>2</sup>



**Pk=5+440**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 5.50 m<sup>2</sup>  
 S. TERRAPLEN = 22.20 m<sup>2</sup>  
 S. VEGETAL = 8.09 m<sup>2</sup>



**Pk=5+444**

S. FIRME = 3.46 m<sup>2</sup>  
 S. D TIERRA = 4.83 m<sup>2</sup>  
 S. TERRAPLEN = 23.79 m<sup>2</sup>  
 S. VEGETAL = 7.34 m<sup>2</sup>



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 Parque eólico en  
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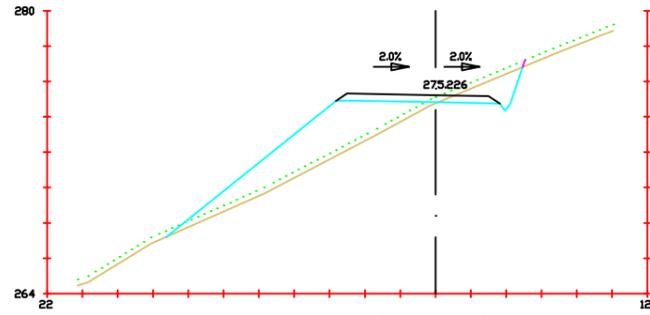
Firma:

Fecha:  
 Junio 2017

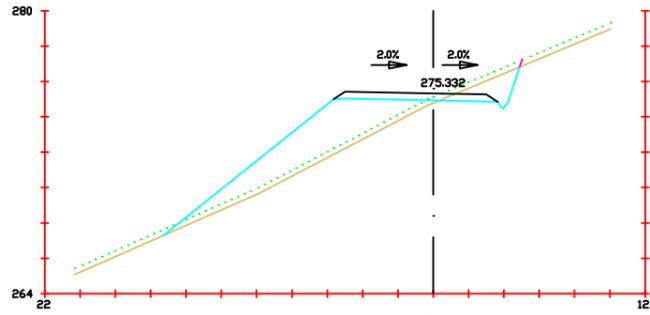
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 52

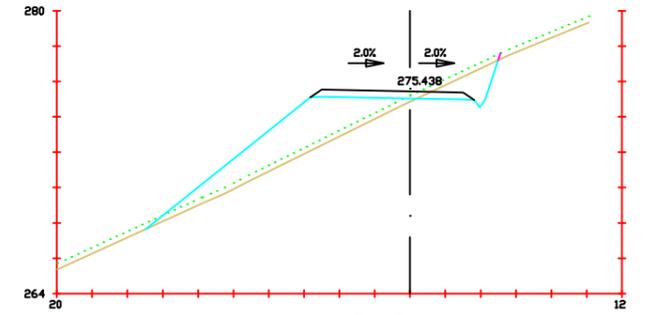
Escala:  
 1/200



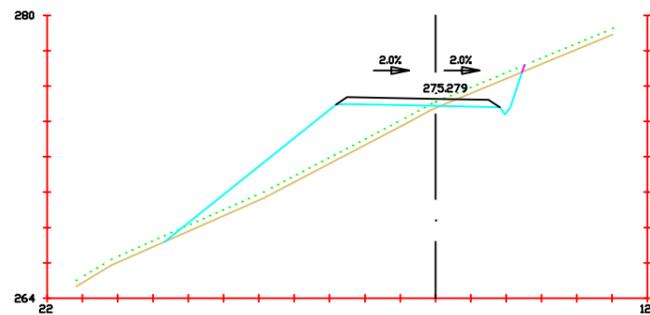
**Pk=5+446**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.40 m<sup>2</sup>.  
 S. TERRAPLEN = 24.98 m<sup>2</sup>.  
 S. VEGETAL = 7.09 m<sup>2</sup>.



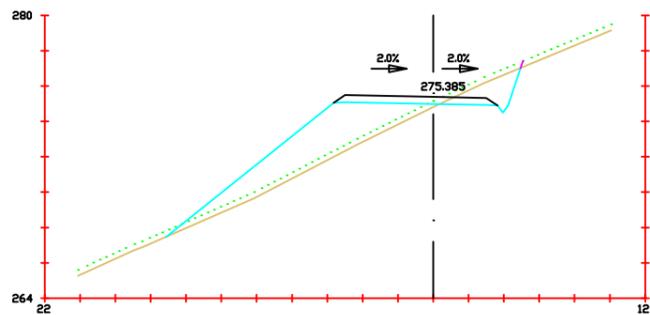
**Pk=5+450**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.00 m<sup>2</sup>.  
 S. TERRAPLEN = 25.38 m<sup>2</sup>.  
 S. VEGETAL = 7.09 m<sup>2</sup>.



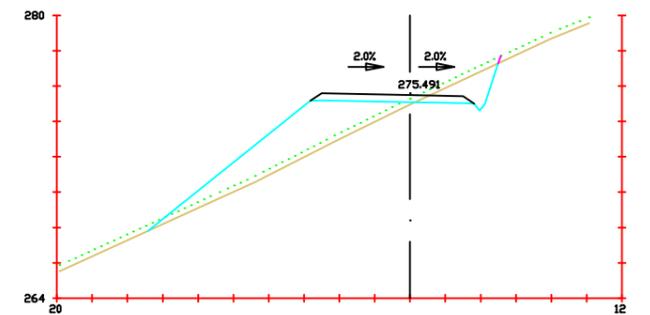
**Pk=5+454**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.51 m<sup>2</sup>.  
 S. TERRAPLEN = 23.76 m<sup>2</sup>.  
 S. VEGETAL = 7.01 m<sup>2</sup>.



**Pk=5+448**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.10 m<sup>2</sup>.  
 S. TERRAPLEN = 25.57 m<sup>2</sup>.  
 S. VEGETAL = 7.11 m<sup>2</sup>.



**Pk=5+452**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.40 m<sup>2</sup>.  
 S. TERRAPLEN = 24.65 m<sup>2</sup>.  
 S. VEGETAL = 7.05 m<sup>2</sup>.



**Pk=5+456**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.65 m<sup>2</sup>.  
 S. TERRAPLEN = 23.21 m<sup>2</sup>.  
 S. VEGETAL = 6.97 m<sup>2</sup>.



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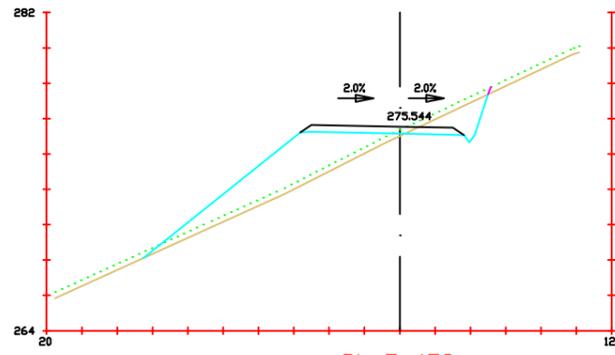
Firma:

Fecha:  
Junio 2017

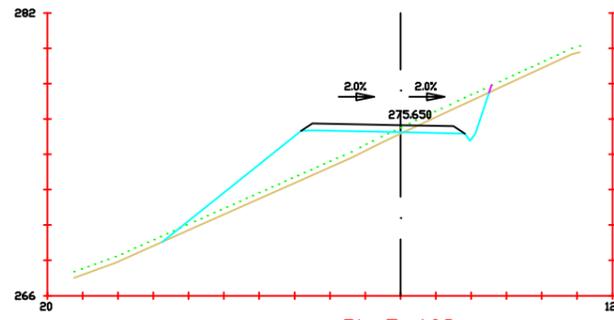
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
53

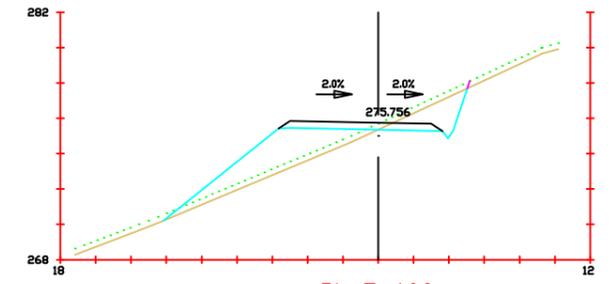
Escala:  
1/200



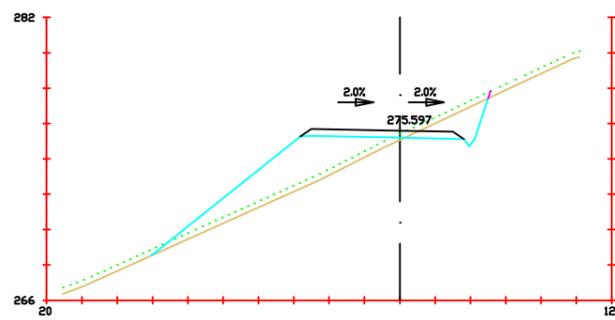
**Pk=5+458**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.78 m<sup>2</sup>.  
 S. TERRAPLEN = 22.64 m<sup>2</sup>.  
 S. VEGETAL = 6.86 m<sup>2</sup>.



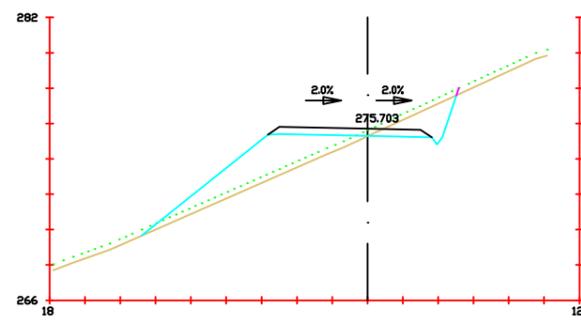
**Pk=5+462**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.90 m<sup>2</sup>.  
 S. TERRAPLEN = 19.33 m<sup>2</sup>.  
 S. VEGETAL = 6.50 m<sup>2</sup>.



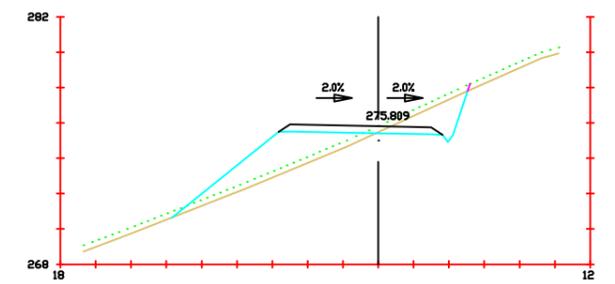
**Pk=5+466**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.32 m<sup>2</sup>.  
 S. TERRAPLEN = 15.38 m<sup>2</sup>.  
 S. VEGETAL = 6.05 m<sup>2</sup>.



**Pk=5+460**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.76 m<sup>2</sup>.  
 S. TERRAPLEN = 21.36 m<sup>2</sup>.  
 S. VEGETAL = 6.70 m<sup>2</sup>.



**Pk=5+464**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.14 m<sup>2</sup>.  
 S. TERRAPLEN = 16.72 m<sup>2</sup>.  
 S. VEGETAL = 6.26 m<sup>2</sup>.



**Pk=5+468**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.62 m<sup>2</sup>.  
 S. TERRAPLEN = 14.33 m<sup>2</sup>.  
 S. VEGETAL = 5.89 m<sup>2</sup>.



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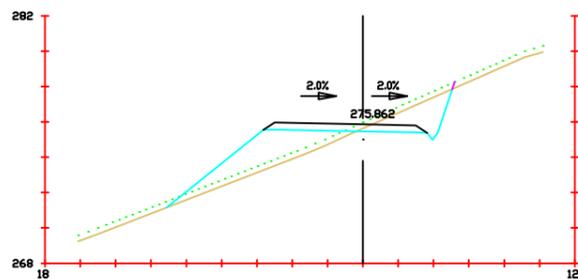
Firma:

Fecha:  
 Junio 2017

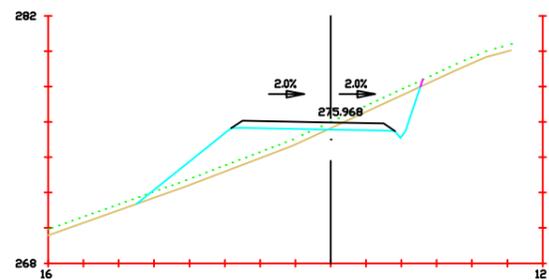
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 54

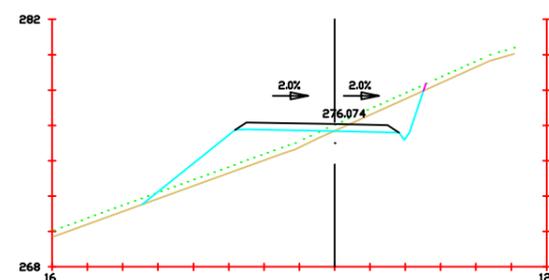
Escala:  
 1/200



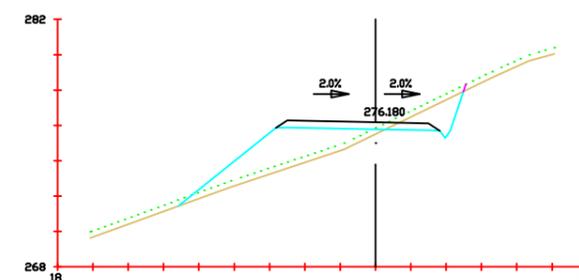
**Pk=5+470**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.86 m<sup>2</sup>.  
 S. TERRAPLEN = 12.47 m<sup>2</sup>.  
 S. VEGETAL = 5.69 m<sup>2</sup>.



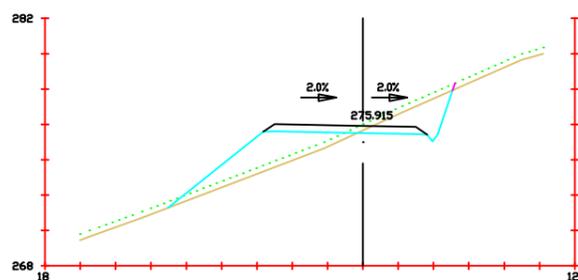
**Pk=5+474**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.70 m<sup>2</sup>.  
 S. TERRAPLEN = 12.99 m<sup>2</sup>.  
 S. VEGETAL = 5.65 m<sup>2</sup>.



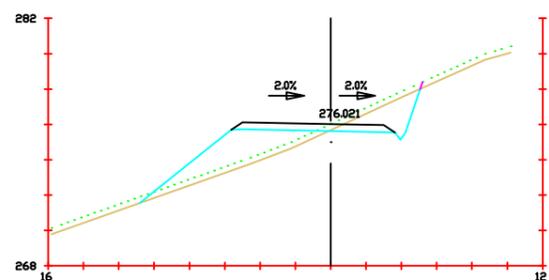
**Pk=5+478**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.22 m<sup>2</sup>.  
 S. TERRAPLEN = 13.00 m<sup>2</sup>.  
 S. VEGETAL = 5.60 m<sup>2</sup>.



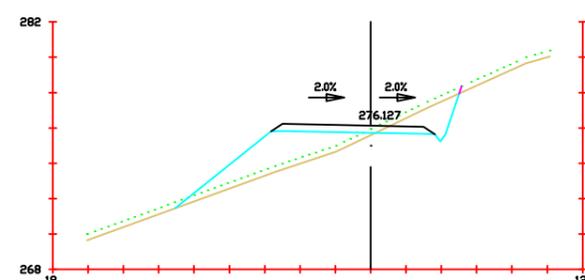
**Pk=5+482**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.27 m<sup>2</sup>.  
 S. TERRAPLEN = 15.23 m<sup>2</sup>.  
 S. VEGETAL = 5.67 m<sup>2</sup>.



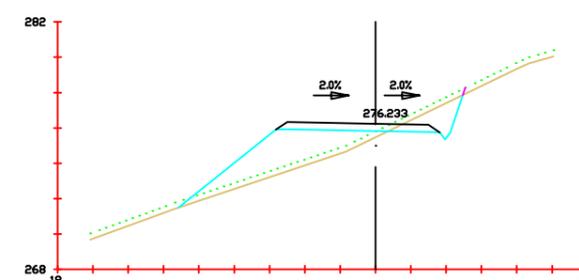
**Pk=5+472**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.94 m<sup>2</sup>.  
 S. TERRAPLEN = 12.41 m<sup>2</sup>.  
 S. VEGETAL = 5.66 m<sup>2</sup>.



**Pk=5+476**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 5.55 m<sup>2</sup>.  
 S. TERRAPLEN = 12.80 m<sup>2</sup>.  
 S. VEGETAL = 5.58 m<sup>2</sup>.



**Pk=5+480**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 4.83 m<sup>2</sup>.  
 S. TERRAPLEN = 14.18 m<sup>2</sup>.  
 S. VEGETAL = 5.65 m<sup>2</sup>.



**Pk=5+484**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.85 m<sup>2</sup>.  
 S. TERRAPLEN = 16.17 m<sup>2</sup>.  
 S. VEGETAL = 5.66 m<sup>2</sup>.



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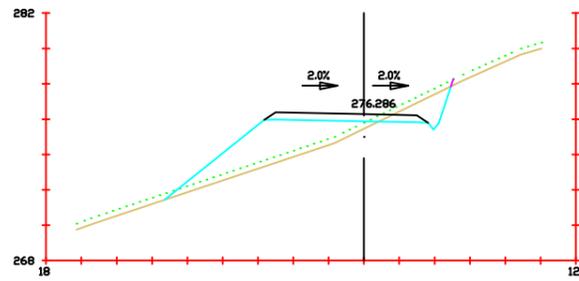
Firma:

Fecha:  
Junio 2017

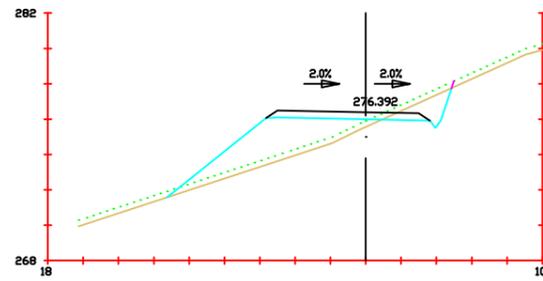
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
55

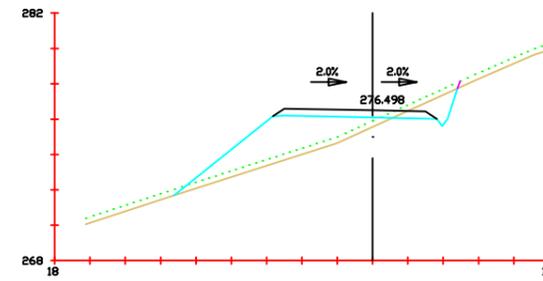
Escala:  
1/200



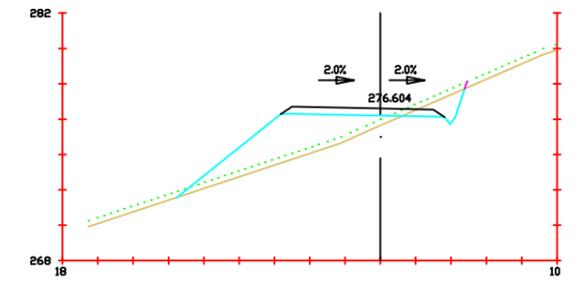
**Pk=5+486**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.61 m<sup>2</sup>.  
 S. TERRAPLEN = 16.86 m<sup>2</sup>.  
 S. VEGETAL = 5.70 m<sup>2</sup>.



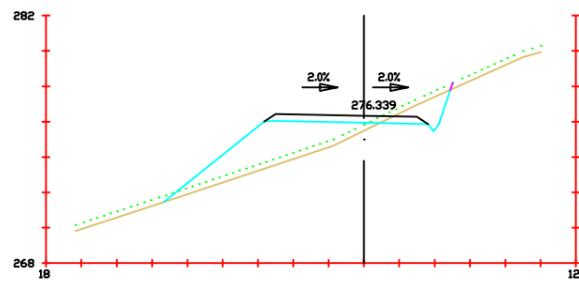
**Pk=5+490**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.20 m<sup>2</sup>.  
 S. TERRAPLEN = 16.97 m<sup>2</sup>.  
 S. VEGETAL = 5.66 m<sup>2</sup>.



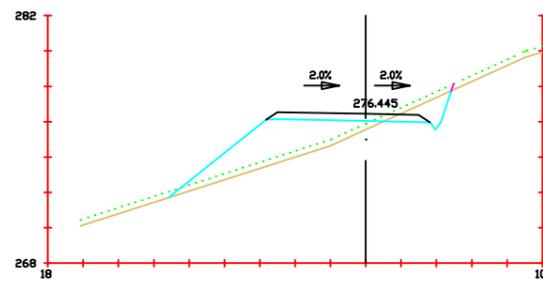
**Pk=5+494**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.82 m<sup>2</sup>.  
 S. TERRAPLEN = 17.53 m<sup>2</sup>.  
 S. VEGETAL = 5.65 m<sup>2</sup>.



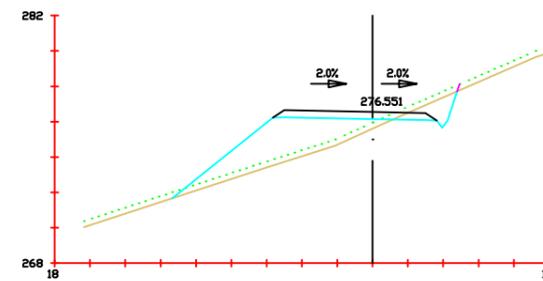
**Pk=5+498**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.54 m<sup>2</sup>.  
 S. TERRAPLEN = 18.39 m<sup>2</sup>.  
 S. VEGETAL = 5.73 m<sup>2</sup>.



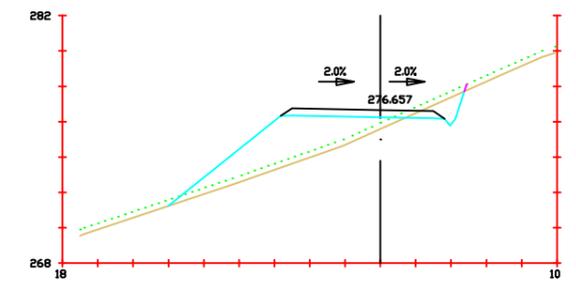
**Pk=5+488**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 17.15 m<sup>2</sup>.  
 S. VEGETAL = 5.70 m<sup>2</sup>.



**Pk=5+492**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.98 m<sup>2</sup>.  
 S. TERRAPLEN = 16.97 m<sup>2</sup>.  
 S. VEGETAL = 5.62 m<sup>2</sup>.



**Pk=5+496**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.71 m<sup>2</sup>.  
 S. TERRAPLEN = 17.77 m<sup>2</sup>.  
 S. VEGETAL = 5.67 m<sup>2</sup>.



**Pk=5+500**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 2.32 m<sup>2</sup>.  
 S. TERRAPLEN = 20.46 m<sup>2</sup>.  
 S. VEGETAL = 5.89 m<sup>2</sup>.



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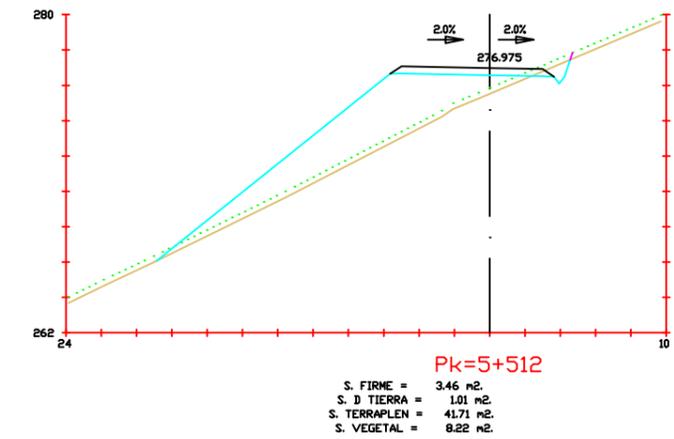
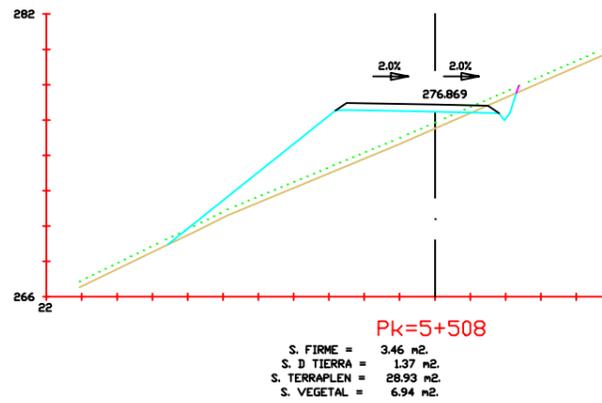
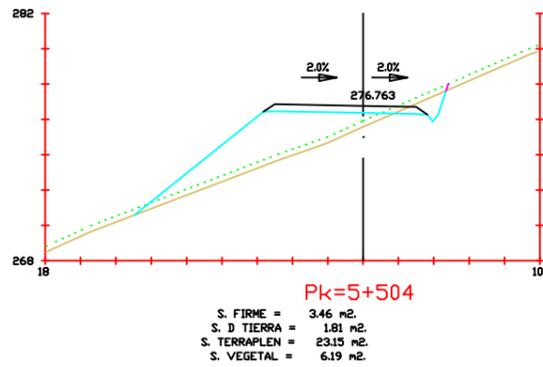
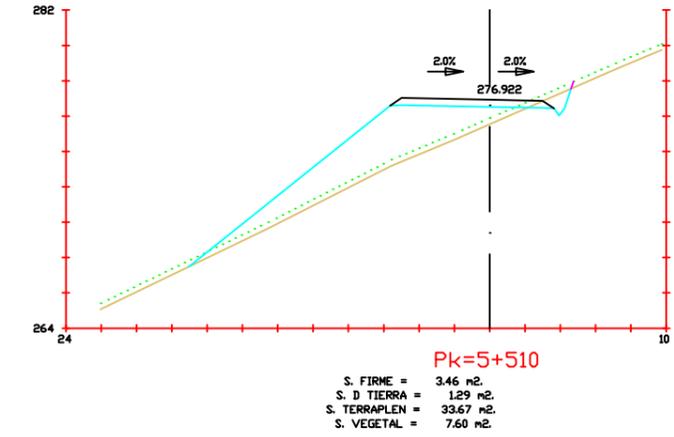
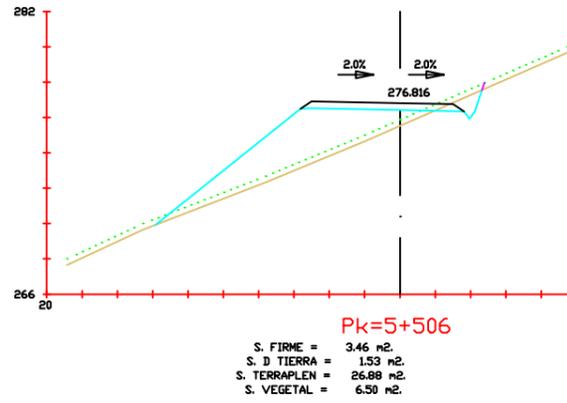
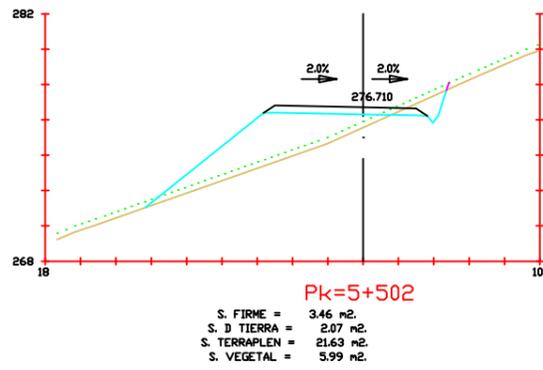
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
56

Escala:  
1/200



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Pantín

Autor:  
Emilio Ángel  
Serantes Carro

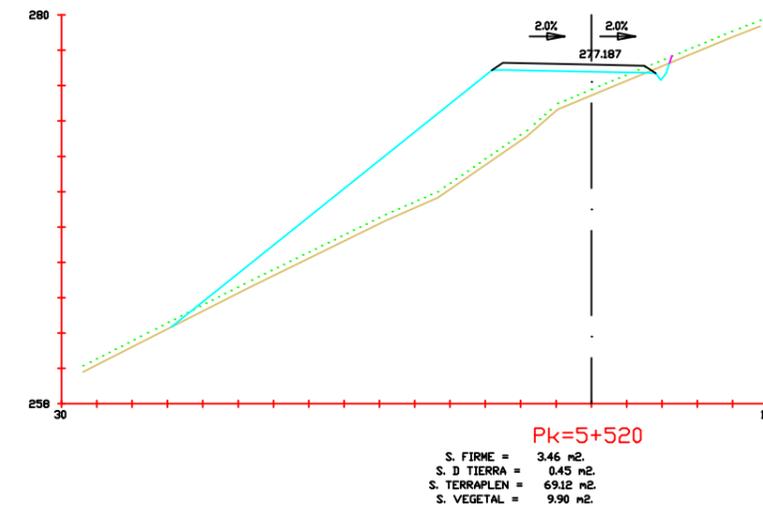
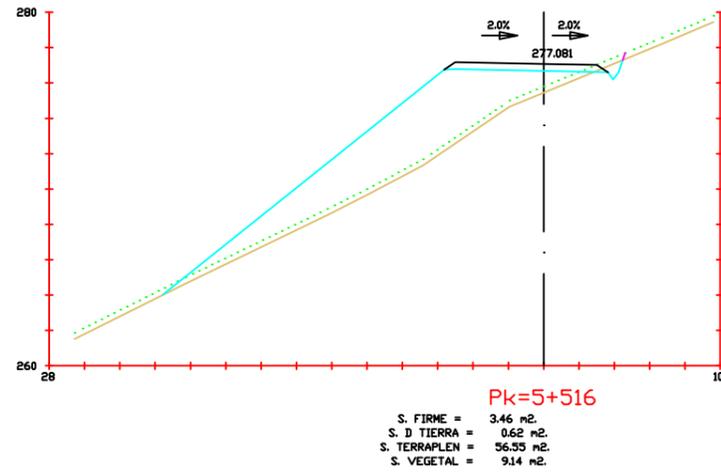
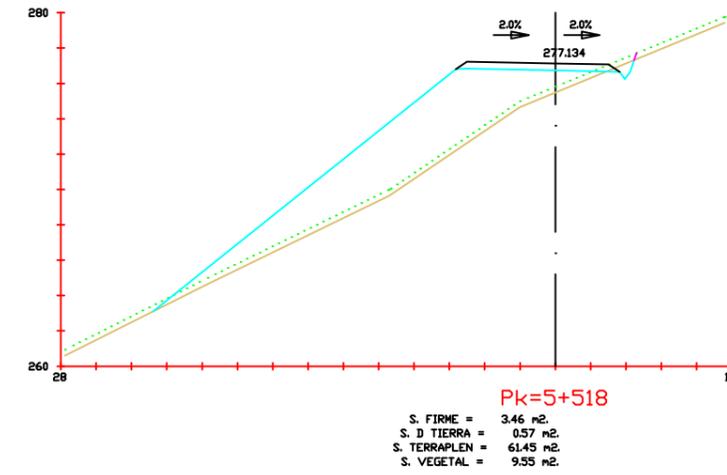
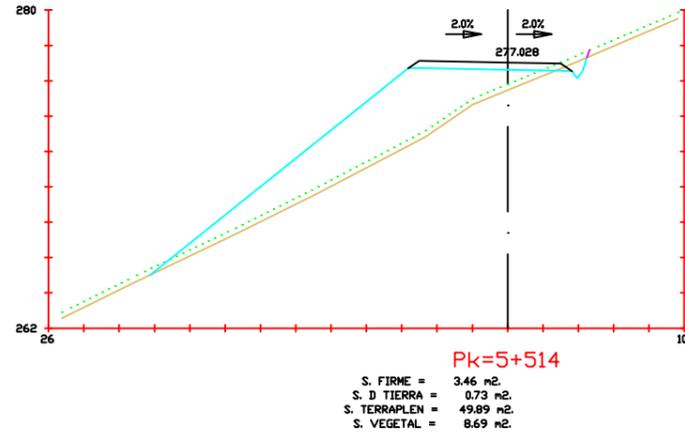
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Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
57

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

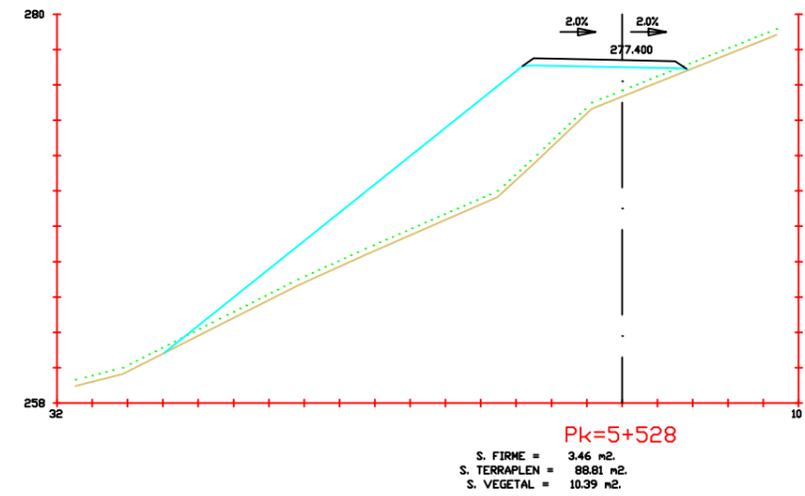
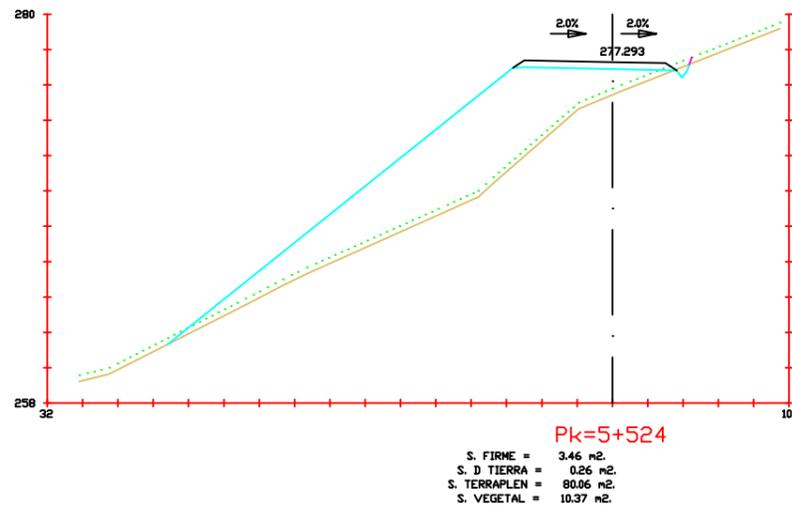
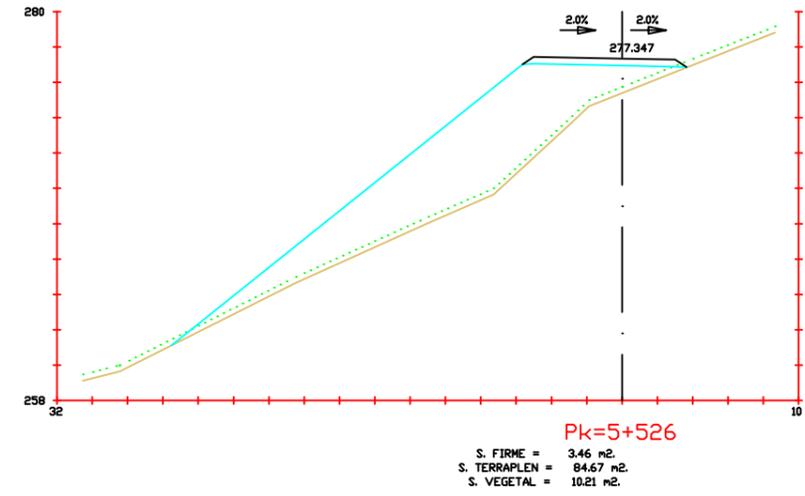
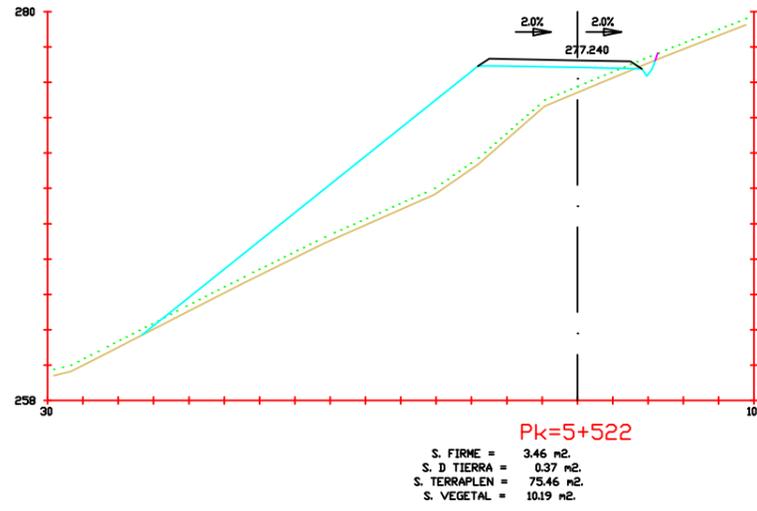
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:	4
Nº hoja:	58

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

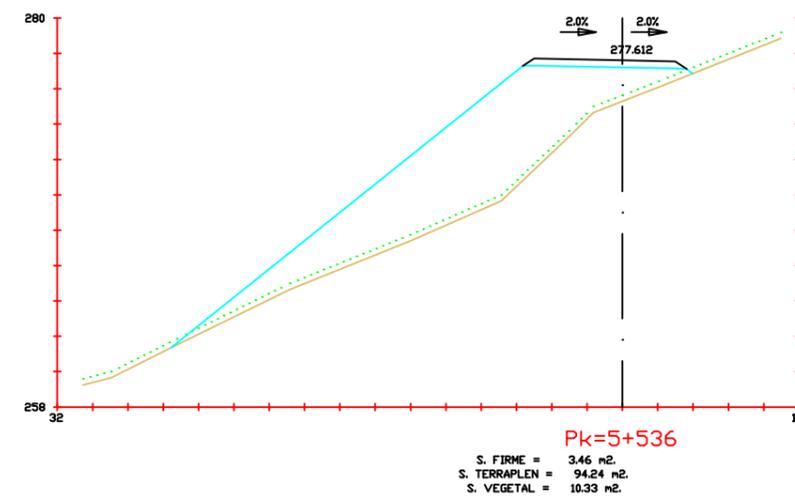
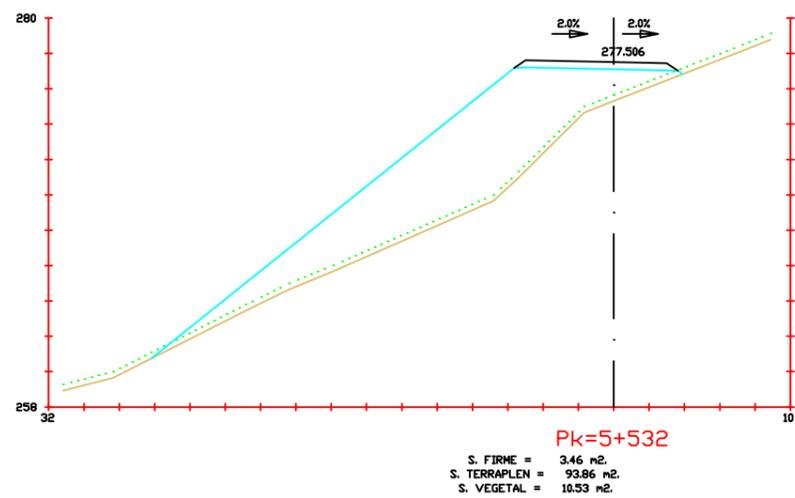
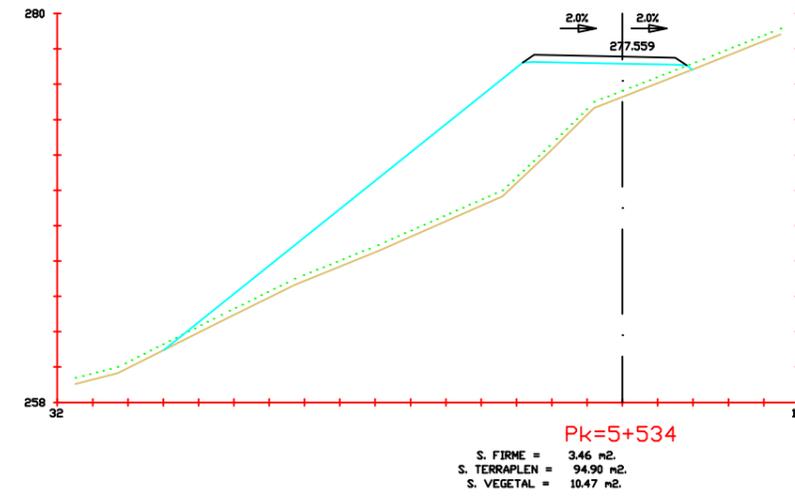
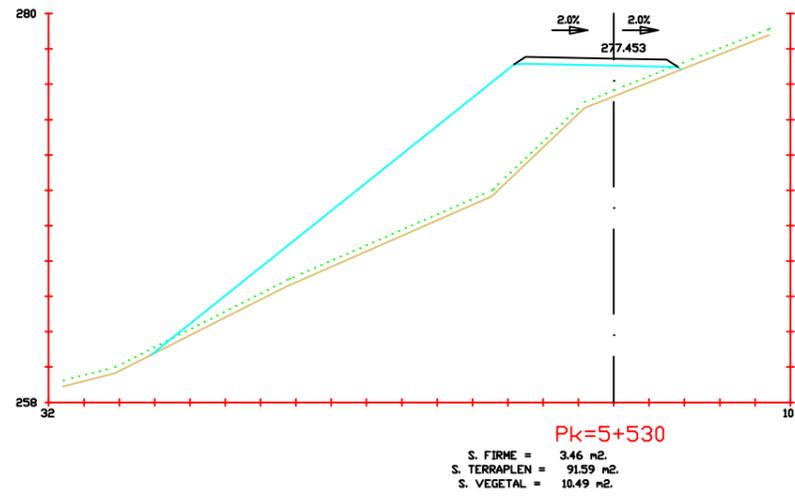
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Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
59

Escala:  
1/200



Proyecto:  
 Parque eólico en  
 Pantín

Autor:  
 Emilio Ángel  
 Serantes Carro

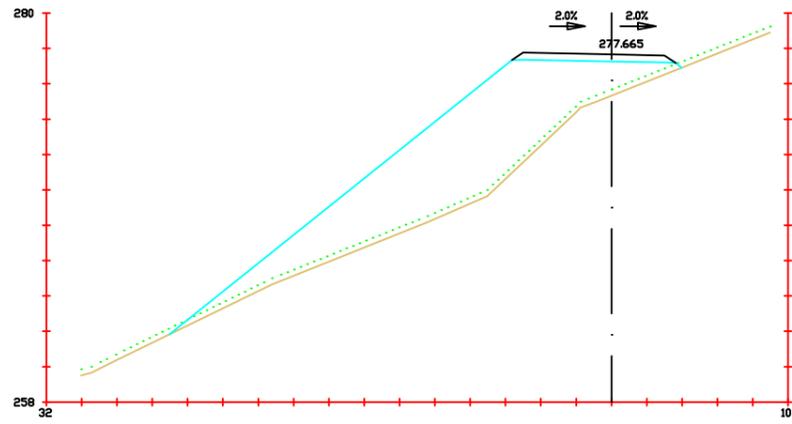
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 Junio 2017

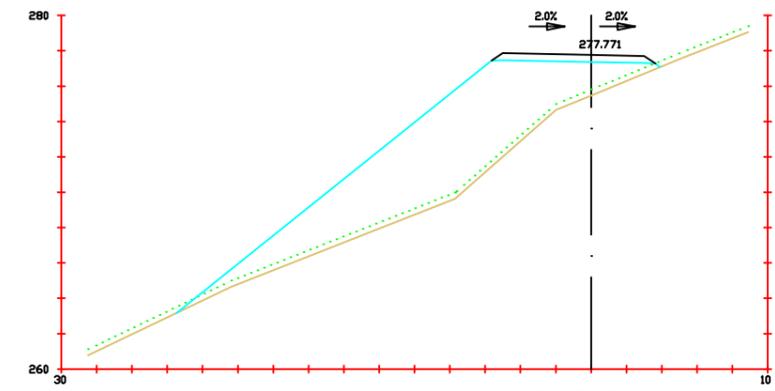
Título del  
 plano:  
 Perfiles transversales

Nº plano:  
 4  
 Nº hoja:  
 60

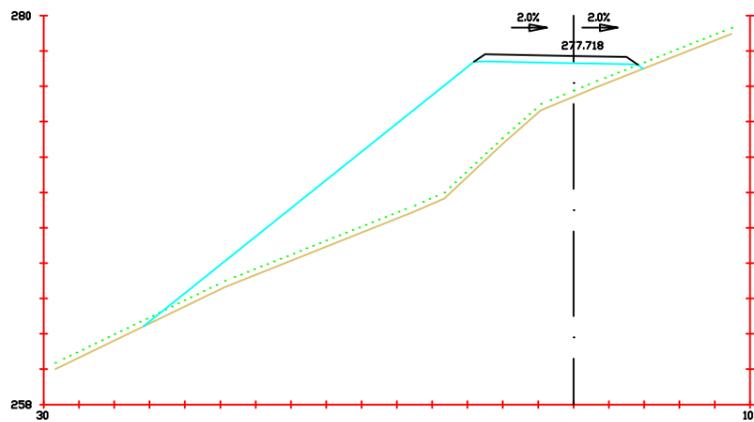
Escala:  
 1/200



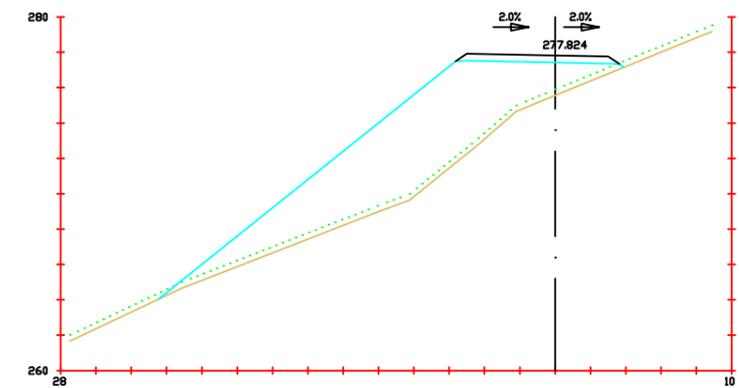
**Pk=5+538**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 91.93 m<sup>2</sup>.  
 S. VEGETAL = 1015 m<sup>2</sup>.



**Pk=5+542**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 84.19 m<sup>2</sup>.  
 S. VEGETAL = 9.59 m<sup>2</sup>.



**Pk=5+540**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 88.30 m<sup>2</sup>.  
 S. VEGETAL = 9.90 m<sup>2</sup>.



**Pk=5+544**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 79.06 m<sup>2</sup>.  
 S. VEGETAL = 9.22 m<sup>2</sup>.



Proyecto:  
Parque eólico en  
Pantín

Autor:  
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Serantes Carro

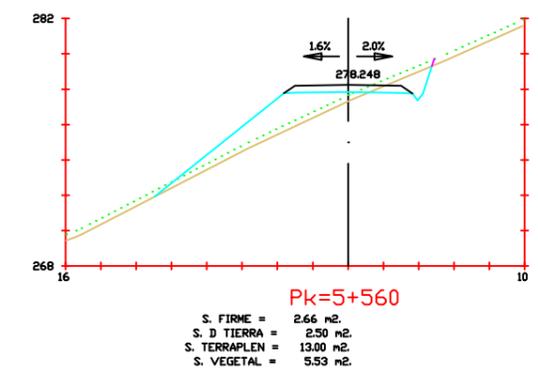
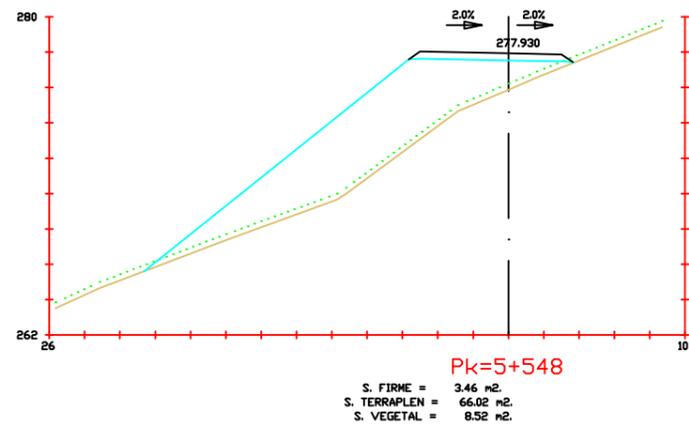
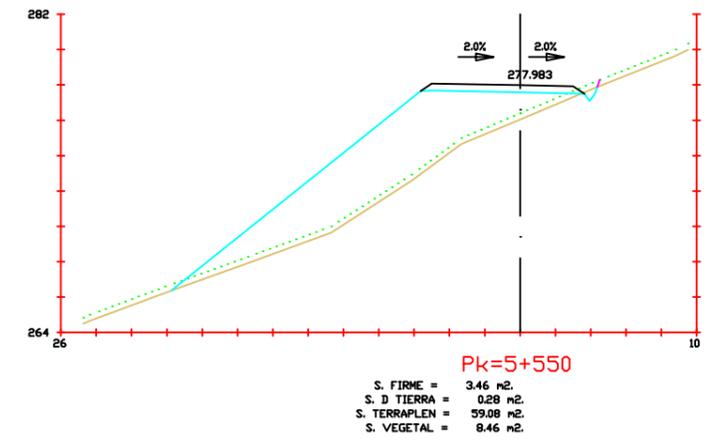
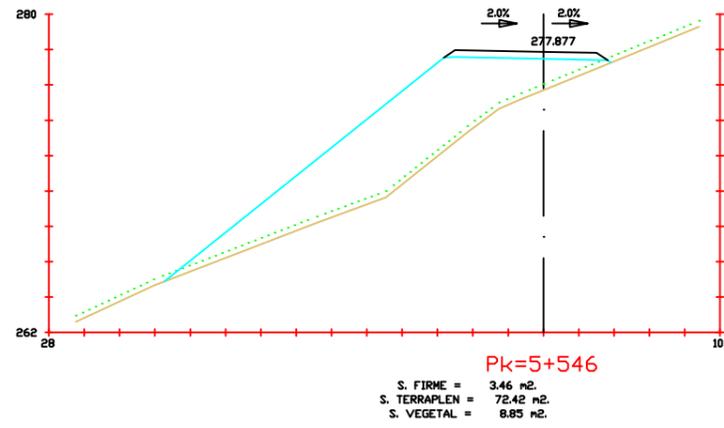
Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
61

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

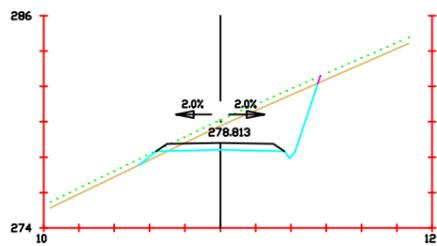
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Junio 2017

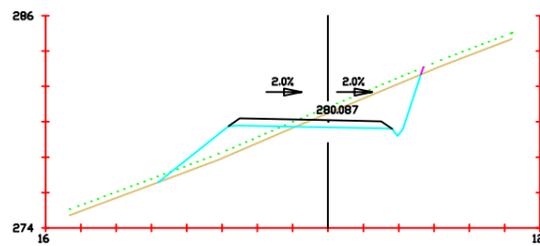
Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
62

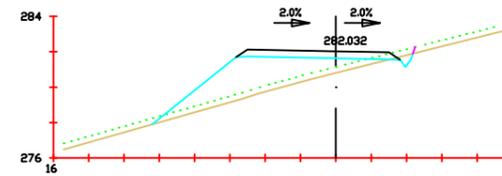
Escala:  
1/200



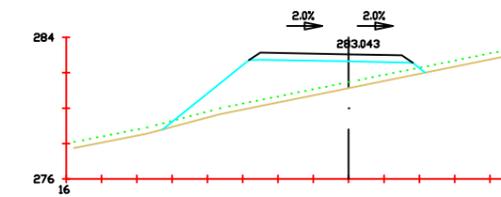
**Pk=5+580**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 14.06 m<sup>2</sup>.  
 S. TERRAPLEN = 0.26 m<sup>2</sup>.  
 S. VEGETAL = 3.57 m<sup>2</sup>.



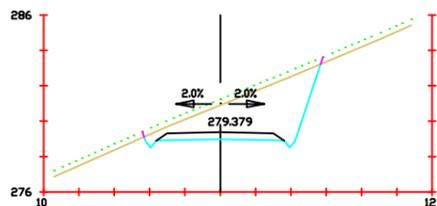
**Pk=5+625**  
 S. FIRME = 3.45 m<sup>2</sup>.  
 S. D TIERRA = 9.54 m<sup>2</sup>.  
 S. TERRAPLEN = 6.65 m<sup>2</sup>.  
 S. VEGETAL = 5.24 m<sup>2</sup>.



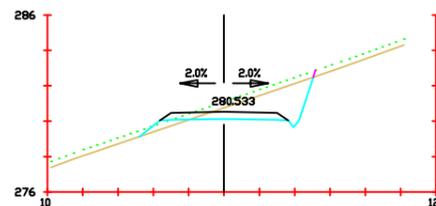
**Pk=5+670**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 0.33 m<sup>2</sup>.  
 S. TERRAPLEN = 16.38 m<sup>2</sup>.  
 S. VEGETAL = 5.19 m<sup>2</sup>.



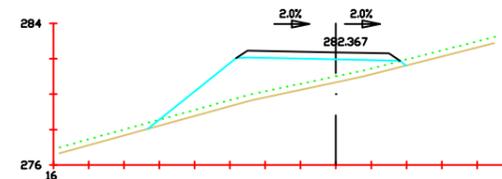
**Pk=5+685**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 22.85 m<sup>2</sup>.  
 S. VEGETAL = 5.20 m<sup>2</sup>.



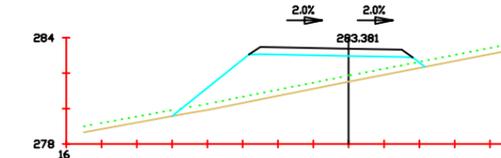
**Pk=5+600**  
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 S. D TIERRA = 19.60 m<sup>2</sup>.  
 S. VEGETAL = 3.54 m<sup>2</sup>.



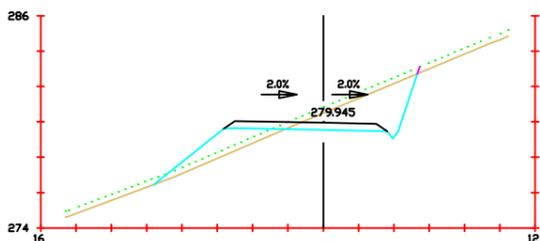
**Pk=5+640**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 7.50 m<sup>2</sup>.  
 S. TERRAPLEN = 0.77 m<sup>2</sup>.  
 S. VEGETAL = 3.47 m<sup>2</sup>.



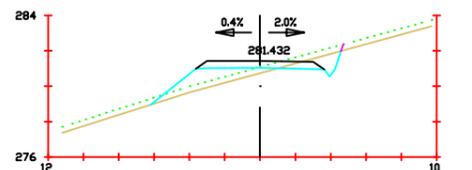
**Pk=5+675**  
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 S. TERRAPLEN = 20.78 m<sup>2</sup>.  
 S. VEGETAL = 5.12 m<sup>2</sup>.



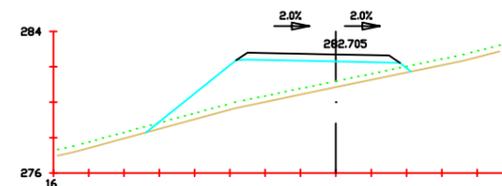
**Pk=5+690**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 21.72 m<sup>2</sup>.  
 S. VEGETAL = 5.01 m<sup>2</sup>.



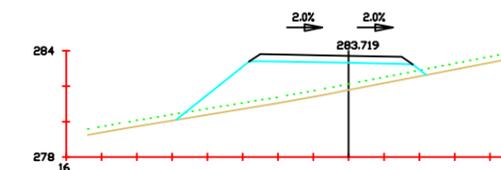
**Pk=5+620**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. D TIERRA = 10.60 m<sup>2</sup>.  
 S. TERRAPLEN = 5.83 m<sup>2</sup>.  
 S. VEGETAL = 5.24 m<sup>2</sup>.



**Pk=5+660**  
 S. FIRME = 2.66 m<sup>2</sup>.  
 S. D TIERRA = 1.83 m<sup>2</sup>.  
 S. TERRAPLEN = 4.57 m<sup>2</sup>.  
 S. VEGETAL = 3.80 m<sup>2</sup>.



**Pk=5+680**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 22.74 m<sup>2</sup>.  
 S. VEGETAL = 5.25 m<sup>2</sup>.



**Pk=5+695**  
 S. FIRME = 3.46 m<sup>2</sup>.  
 S. TERRAPLEN = 21.82 m<sup>2</sup>.  
 S. VEGETAL = 4.96 m<sup>2</sup>.



Proyecto:  
Parque eólico en  
Pantín

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Serantes Carro

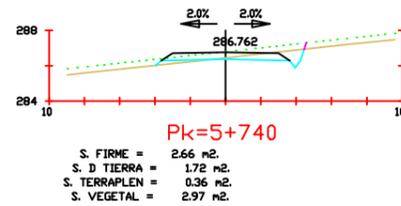
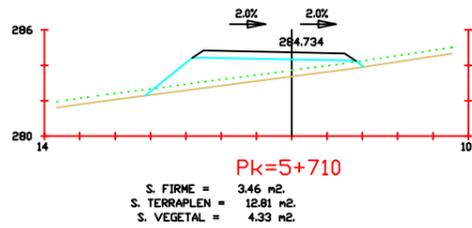
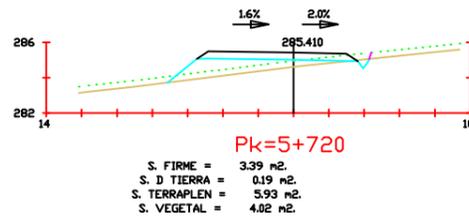
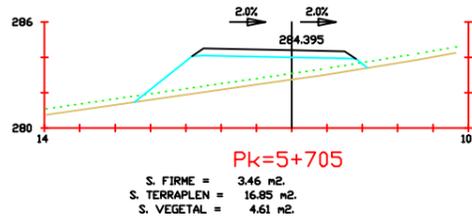
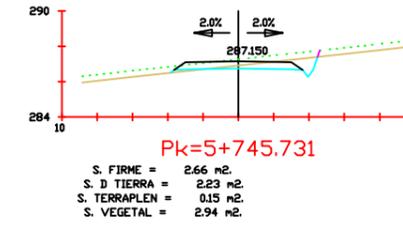
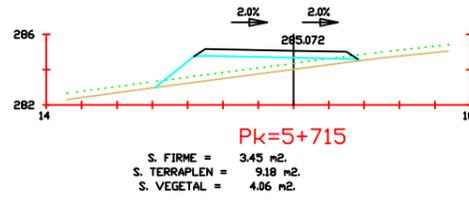
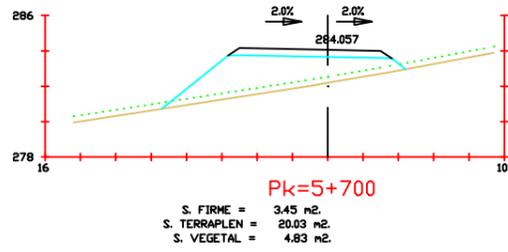
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Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
63

Escala:  
1/200



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

Firma:

Fecha:  
Junio 2017

Título del  
plano:  
Perfiles transversales

Nº plano:  
4  
Nº hoja:  
64

Escala:  
1/200



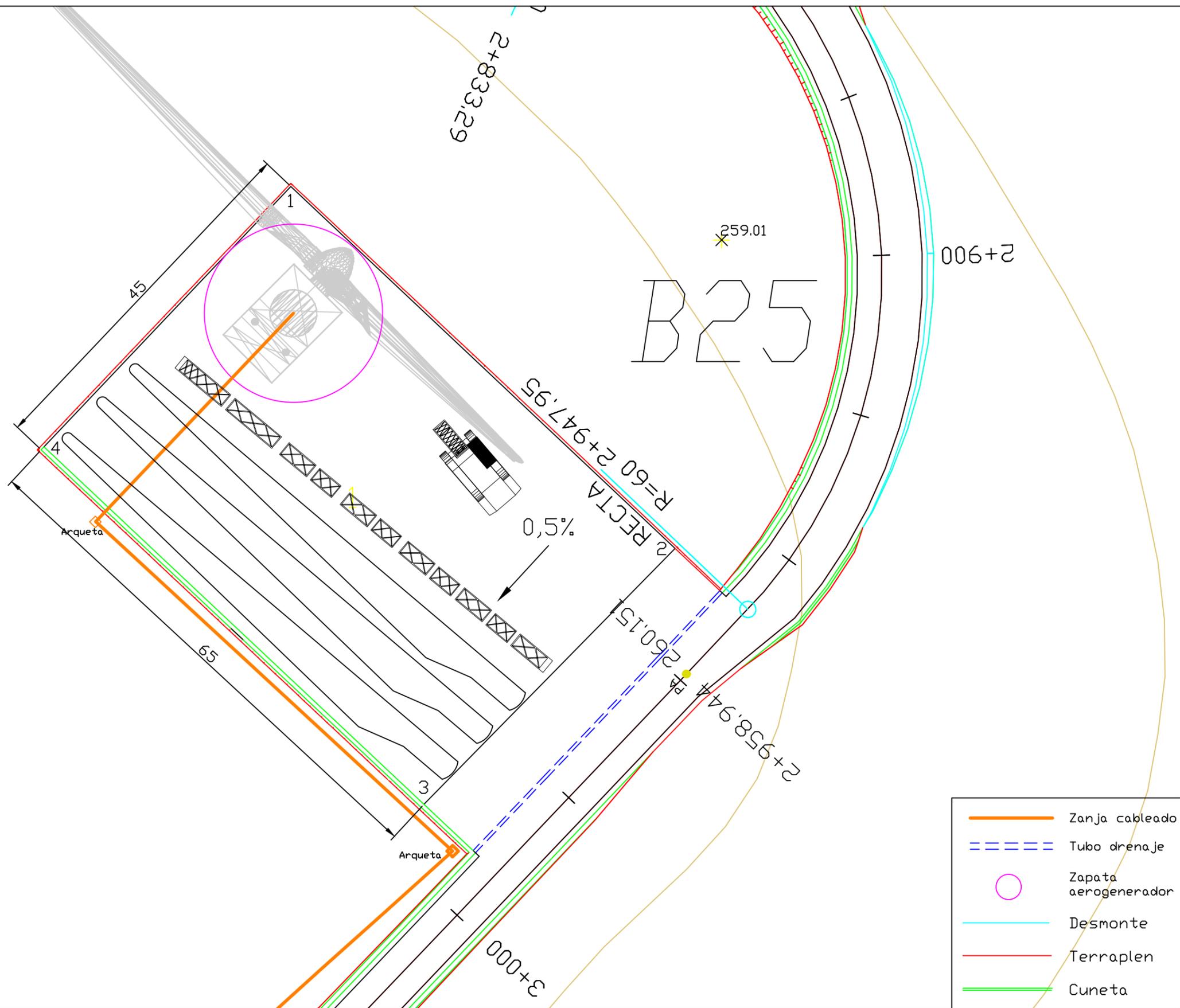
Proyecto Fin de Grado: Parque eólico en Pantín

E.T.S. Ingenieros de Caminos, Canales y Puertos

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Autor: Emilio Ángel Serantes Carro

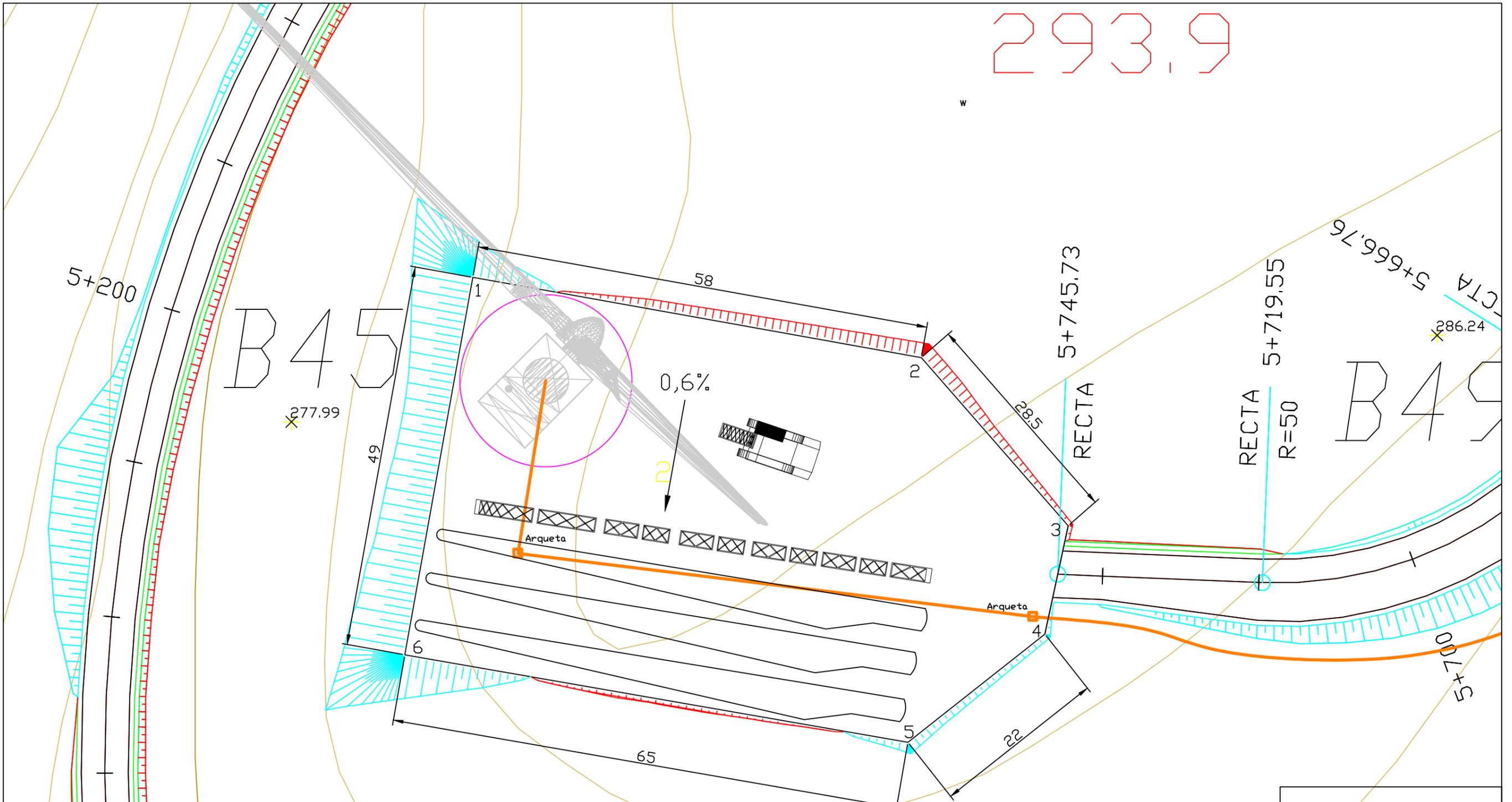
## **5. PLATAFORMAS**



Explanada 1			
Punto	X (UTM)	Y (UTM)	Z (m)
1	573399,55	4831715,05	260,25
2	573446,96	4831670,41	260,25
3	573415,61	4831638,5	260
4	573368,73	4831682,58	260

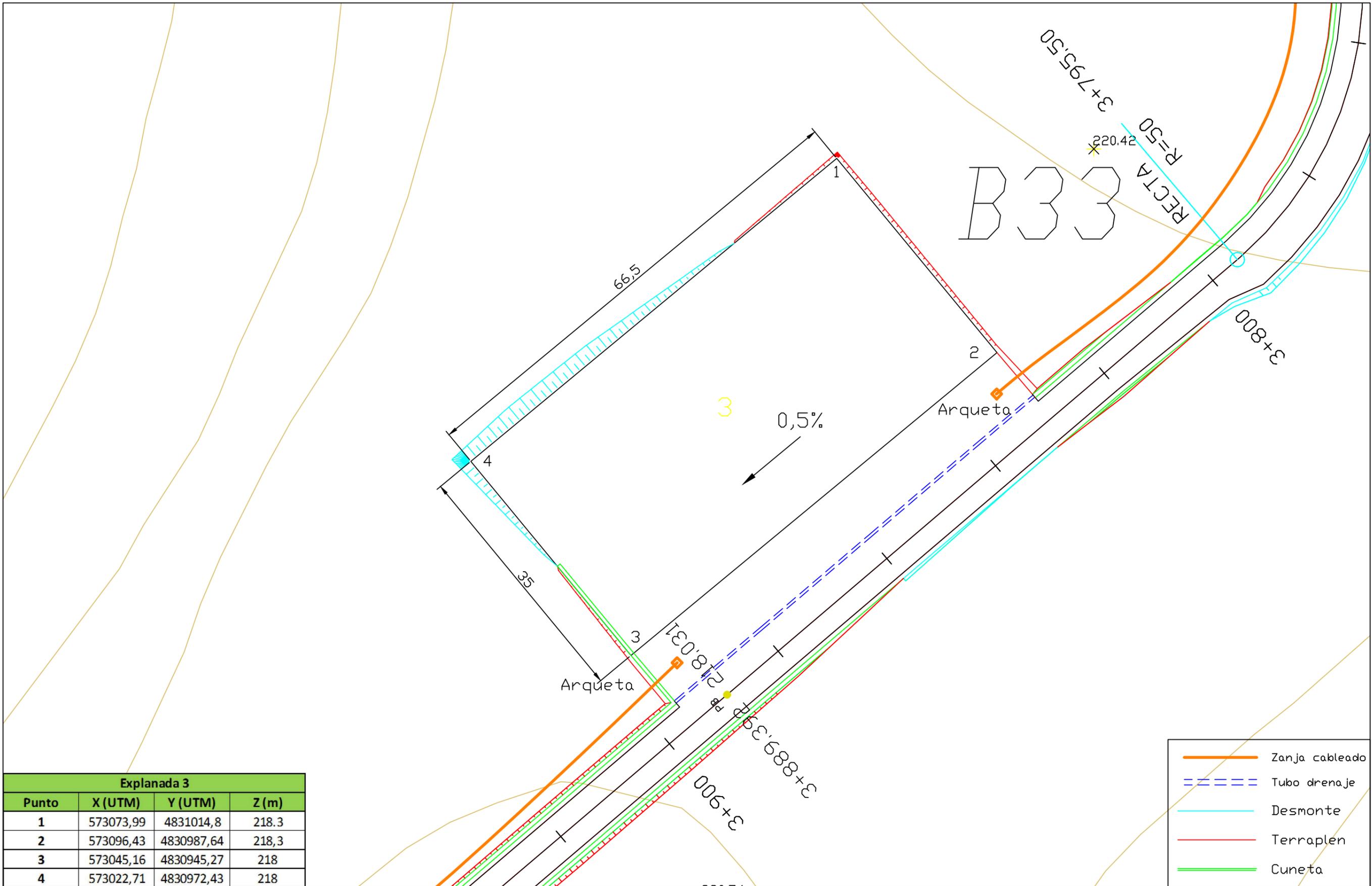
	Proyecto: Parque eólico en Pantín	Autor: Emilio Ángel Serantes Carro	Firma: 	Fecha: Junio 2017	Título del plano: Plataformas. Planta	Nº plano: 5.1	Escala: 1/500
						Nº hoja: 1	

293.9



Explanada 2			
Punto	X (UTM)	Y (UTM)	Z (m)
1	572635,42	4830390,45	287,3
2	572692,75	4830380,2	287,3
3	572711,54	4830358,72	287,2
4	572708,54	4830344,87	287,1
5	572691,05	4830331,05	287
6	572626,72	4830342,23	287

-  Zanja cableado
-  Zapata aerogenerador
-  Desmonte
-  Terraplen
-  Cuneta



Explanada 3			
Punto	X (UTM)	Y (UTM)	Z (m)
1	573073,99	4831014,8	218.3
2	573096,43	4830987,64	218,3
3	573045,16	4830945,27	218
4	573022,71	4830972,43	218

- Zanja cableado
- - - Tubo drenaje
- Desmonte
- Terraplen
- Cuneta



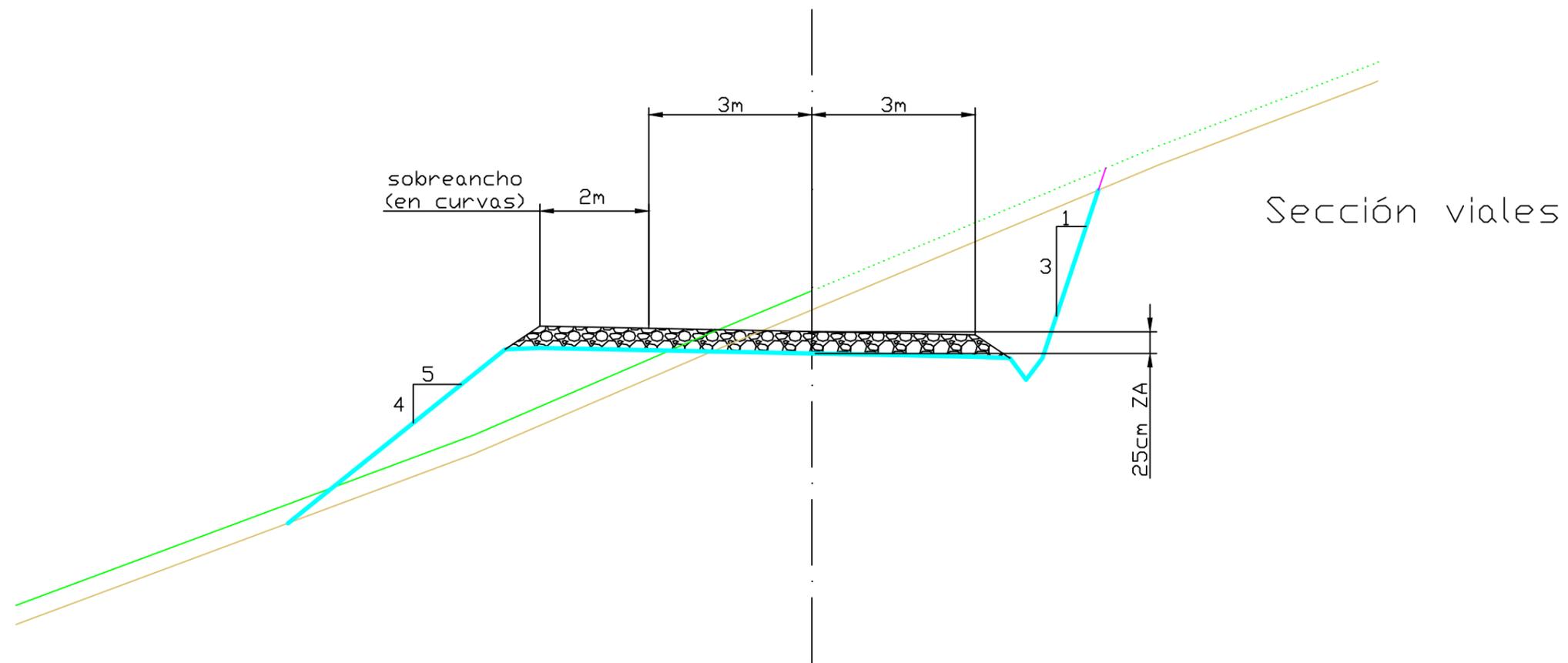
Proyecto Fin de Grado: Parque eólico en Pantín

E.T.S. Ingenieros de Caminos, Canales y Puertos

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Autor: Emilio Ángel Serantes Carro

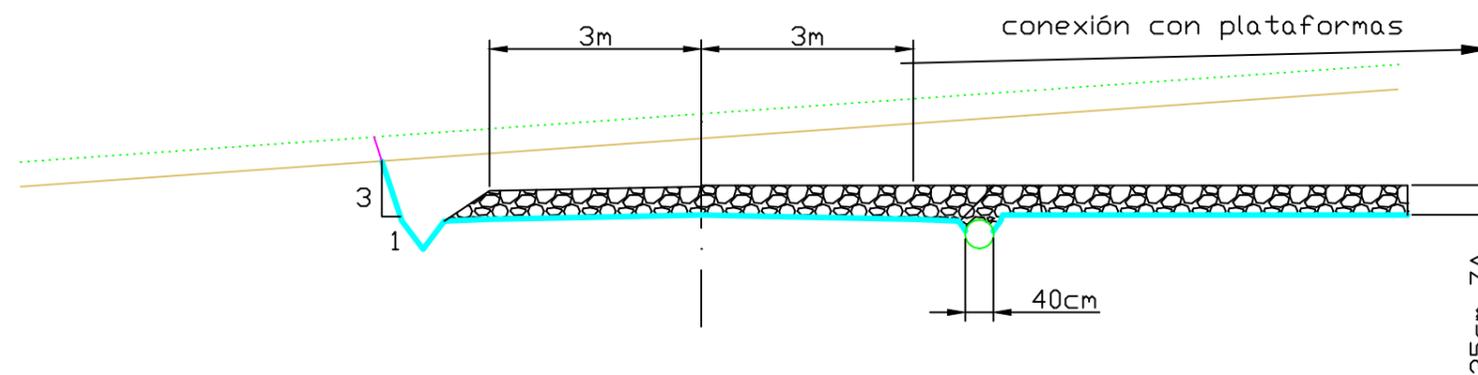
## **6. SECCIONES TIPO**



Sección viales

- Tierra Vegetal
- Suelo residual
- Tubo hormigón D=40cm

Sección vial contiguo a plataformas



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

Firma:

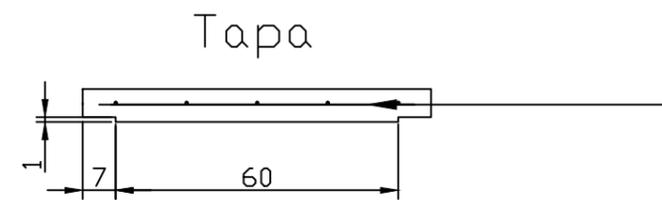
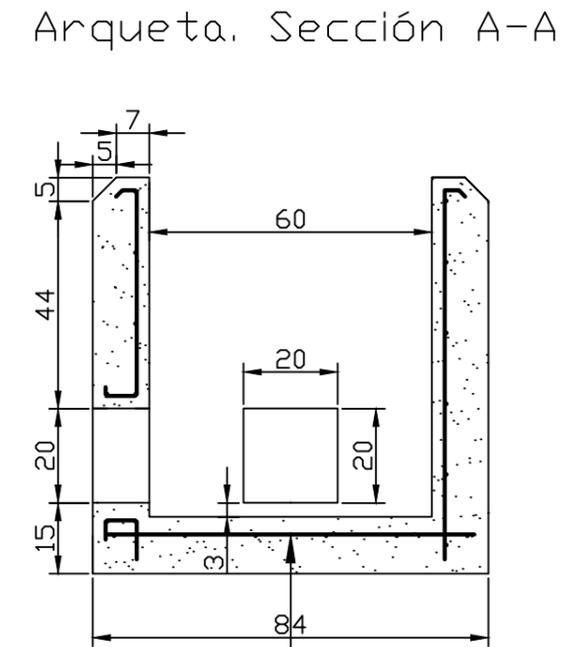
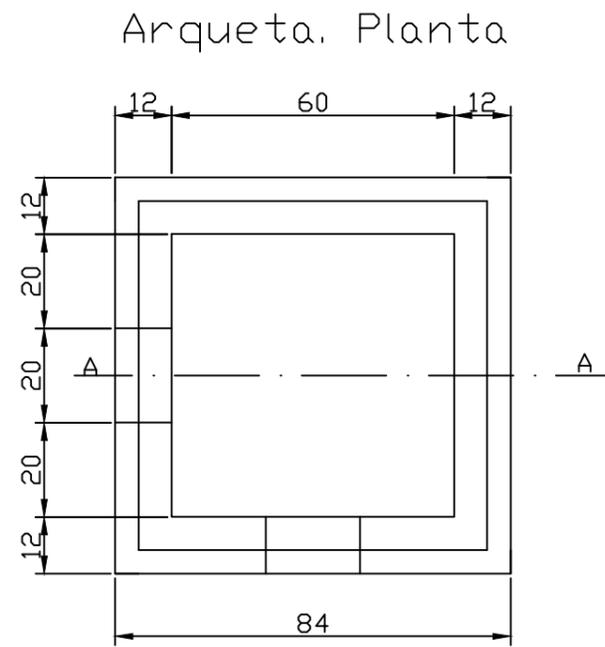
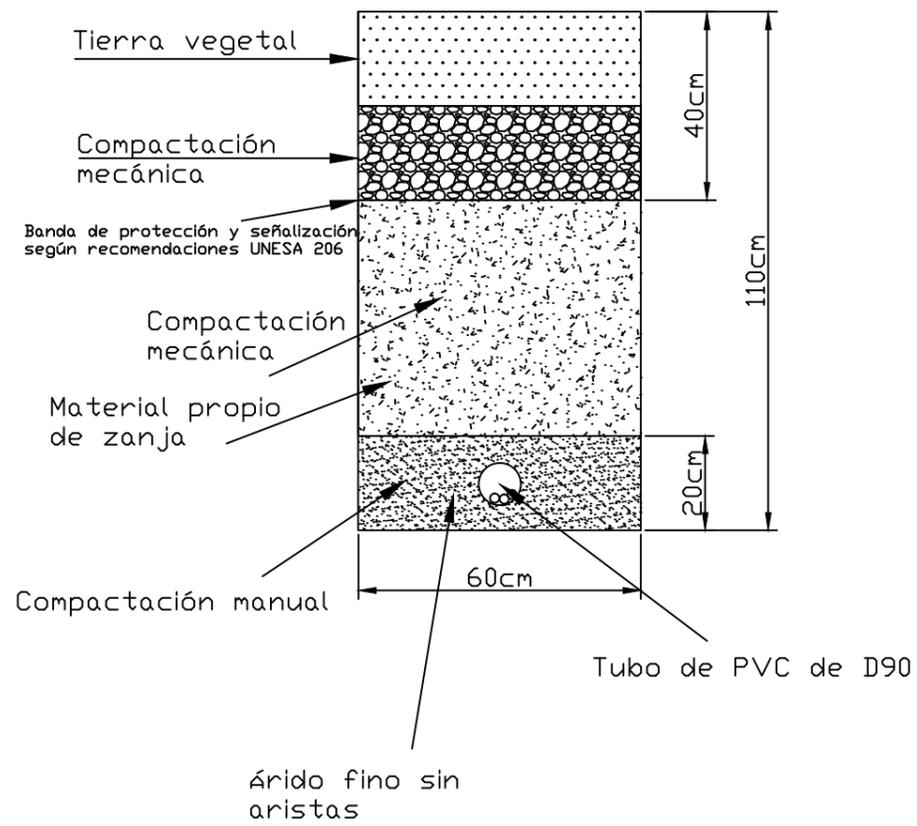
Fecha:  
Junio 2017

Título del  
plano:

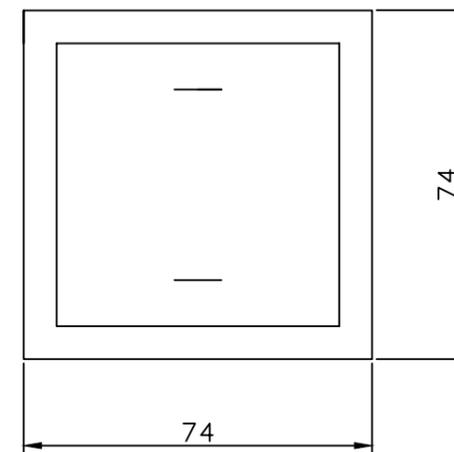
Secciones tipo

Nº plano:  
6  
Nº hoja:  
1

Escala:  
1/100



Mallazo electrosoldado D6 cada 150mm



Cotas en cm



Proyecto:  
Parque eólico en  
Pantín

Autor:  
Emilio Ángel  
Serantes Carro

Firma:

Fecha:  
Junio 2017

Título del  
plano:

Secciones tipo

Nº plano:  
6

Nº hoja:  
2

Escala:  
1/15



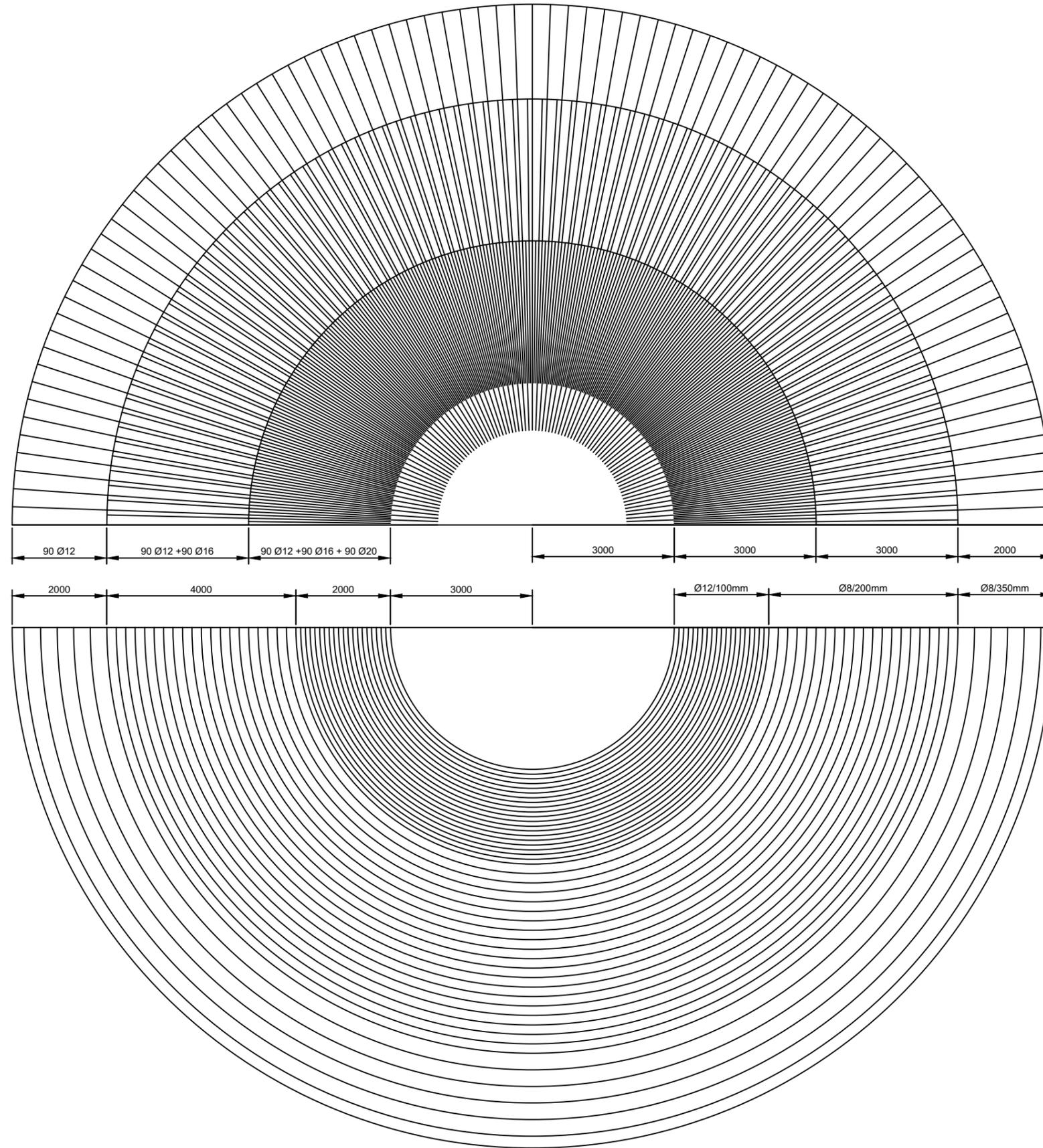
Proyecto Fin de Grado: Parque eólico en Pantín

E.T.S. Ingenieros de Caminos, Canales y Puertos

---

Autor: Emilio Ángel Serantes Carro

## **7. CIMENTACIONES**



Proyecto:  
**Parque eólico en Pantín**

Autor:  
Emilio Ángel Serantes  
Carro

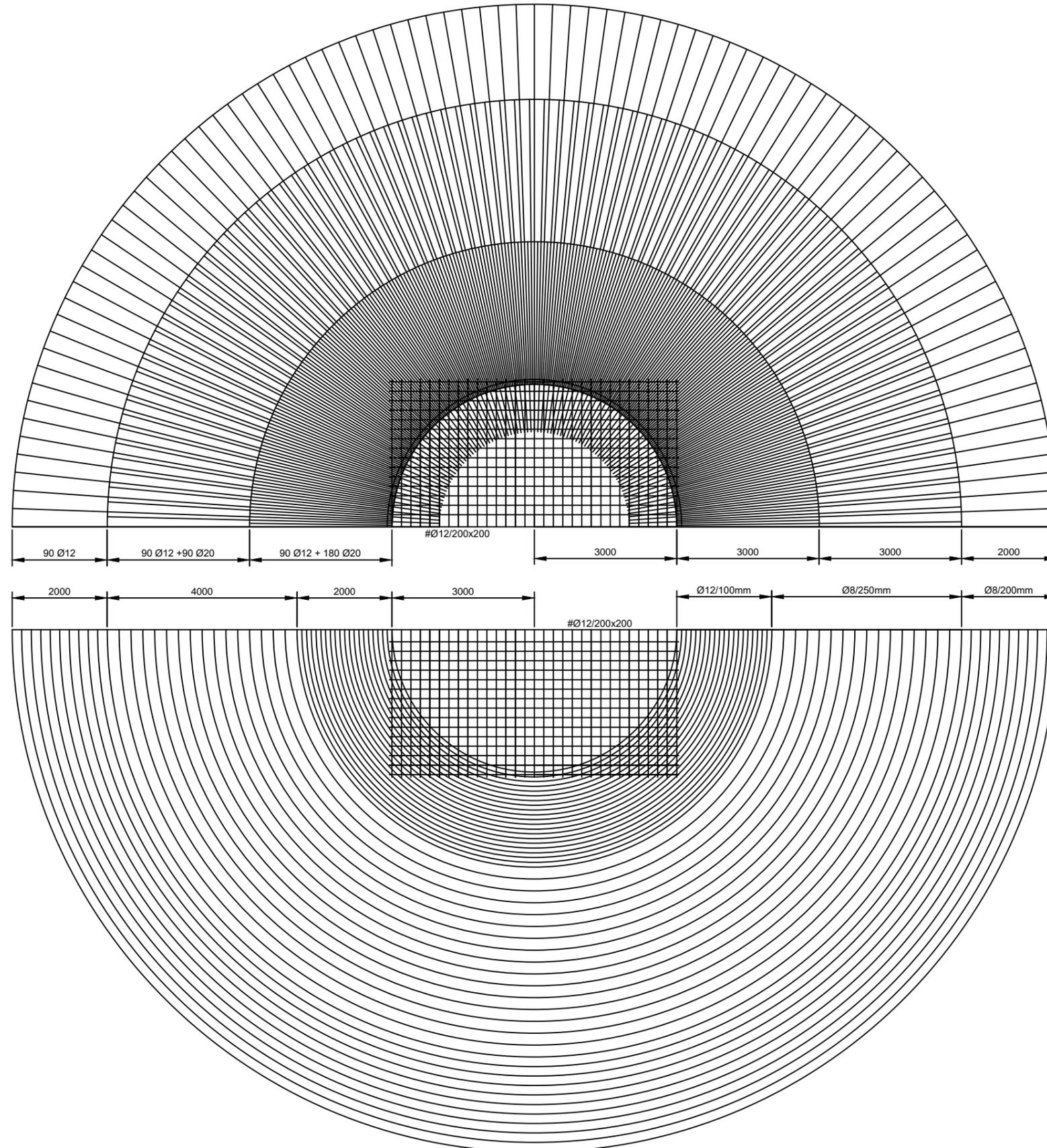
Firma:

Fecha:  
Junio 2017

Título del plano:  
**Cimentación aerogenerador. Armado superior**

Nº plano:  
7  
Nº hoja:  
1

Escala:  
1/100



Proyecto:  
**Parque eólico en Pantín**

Autor:  
Emilio Ángel Serantes  
Carro

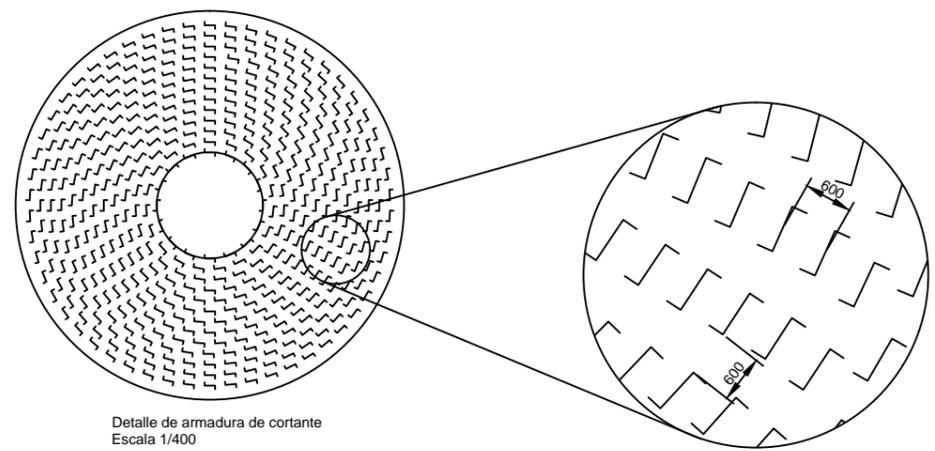
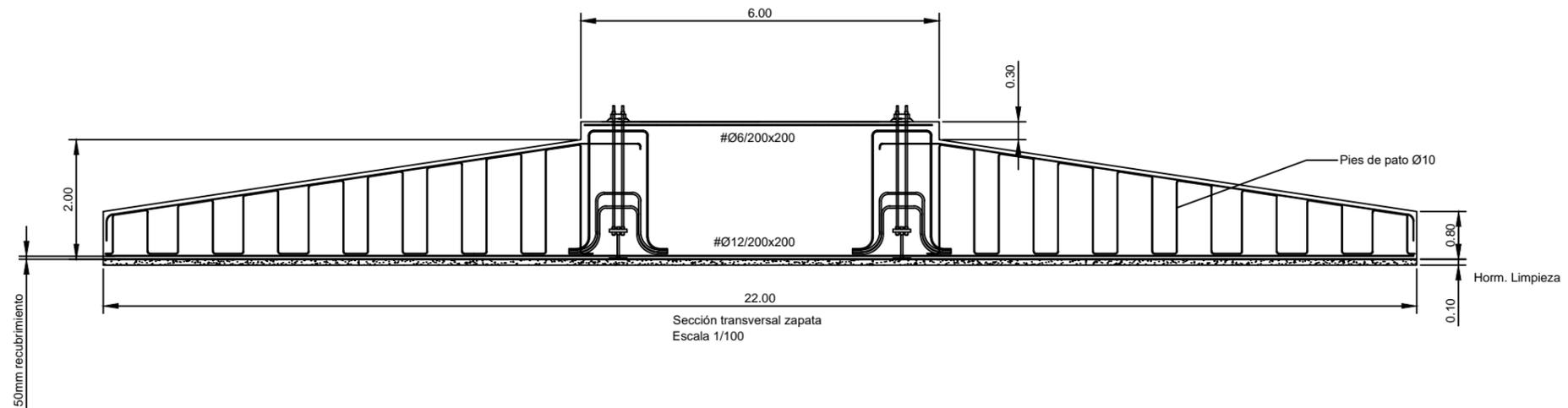
Firma:

Fecha:  
Junio 2017

Título del plano:  
Cimentación aerogenerador. Armado inferior

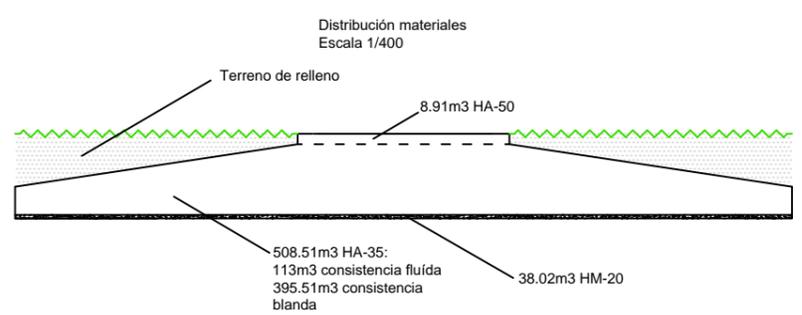
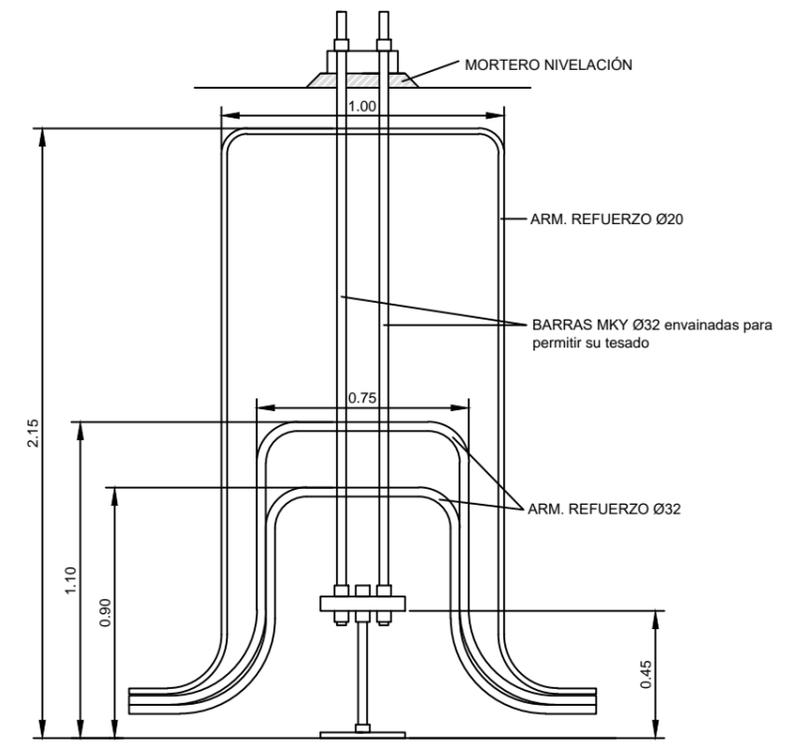
Nº plano:  
7  
Nº hoja:  
2

Escala:  
1/100



Detalle pies de pato Ø10  
Escala 1/100

Detalle unión fuste-zapata  
Escala 1/25



Especificaciones de los materiales			
Elemento	Especificación	Localización	Coef. Ponderación
Hormigón	HM-20/P/20	Fondo excavación	$\gamma_c = 1.5$
	HA-35/B/20/IIa HA-35/F/20/IIa(*)	Zona de canto variable	
	HA-50/B/20/IIIa	Pedestal	
Acero	B500S	Igual toda la obra	$\gamma_s = 1.15$
Relleno	$\rho = 2.000 \text{ Kg/m}^3$	Igual toda la obra	-

(\*) El hormigón de consistencia fluida se verterá en los primeros 35cm de la zapata hasta cubrir el emparrillado inferior y parte de las armaduras de refuerzo. A partir de dicho punto, el hormigón será de consistencia blanda