

Proyecto de construcción de una senda ciclable
entre el polígono Agirre y Martiartu (T.M. de Arrigorriaga)

0. Índice de planos	1 hoja	7. Drenaje	
		7.1. Plantas	5 hojas
1. Situación		7.2. Obras de drenaje transversal	6 hojas
1.1. Situación	1 hoja	7.3. Cunetas de guarda. Planta y perfil longitudinal	1 hoja
1.2. Emplazamiento	1 hoja	7.4. Detalles	1 hoja
1.3. Conductor de hojas	1 hoja	7.5. Avenidas del río Nervión	5 hojas
Total por grupo	3 hojas	Total por grupo	18 hojas
2. Plantas generales		8. Servicios afectados	
2.1. Situación actual	5 hojas	8.1. Servicios existentes	5 hojas
2.2. Solución propuesta	5 hojas	8.2. Reposición de servicios	5 hojas
2.3. Tronco senda ciclable urbanización	5 hojas	8.3. Detalles	5 hojas
Total por grupo	15 hojas	Total por grupo	15 hojas
3. Perfiles longitudinales		9. Señalización, balizamiento y defensas	
3.1. Solución propuesta	6 hojas	9.1. Plantas	5 hojas
3.2. Acceso conexión polígono y conexión inicial	1 hoja	9.2. Barreras plantas	2 hojas
Total por grupo	7 hojas	9.3. Detalles	2 hojas
		Total por grupo	9 hojas
4. Secciones tipo	9 hojas	10. Fases de obra	
5. Perfiles transversales		10.1.1. Fase-1	1 hoja
5.1. Tronco senda ciclable	21 hojas	10.1.2. Fase-2	1 hoja
5.2. Acceso conexión polígono	5 hoja	10.2. Relleno provisional para ejecución del muro	2 hojas
5.3. Conexión inicial	1 hoja	10.3. Zona de acopios e instalaciones	1 hoja
Total por grupo	27 hojas	Total por grupo	5 hojas
6. Estructuras		11. Iluminación	
6.1. Planta de situación	1 hoja	11.1. Planta	1 hoja
6.2. Muro 1	1 hoja	11.2. Detalles	1 hoja
6.3. Muro 2	2 hojas	Total por grupo	2 hojas
Total por grupo	4 hojas	12. Expropiaciones	5 hojas



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88-PA

UGAO-MIRABALLES

Trazado

Hoja 1

Hoja 2

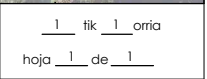
Hoja 3

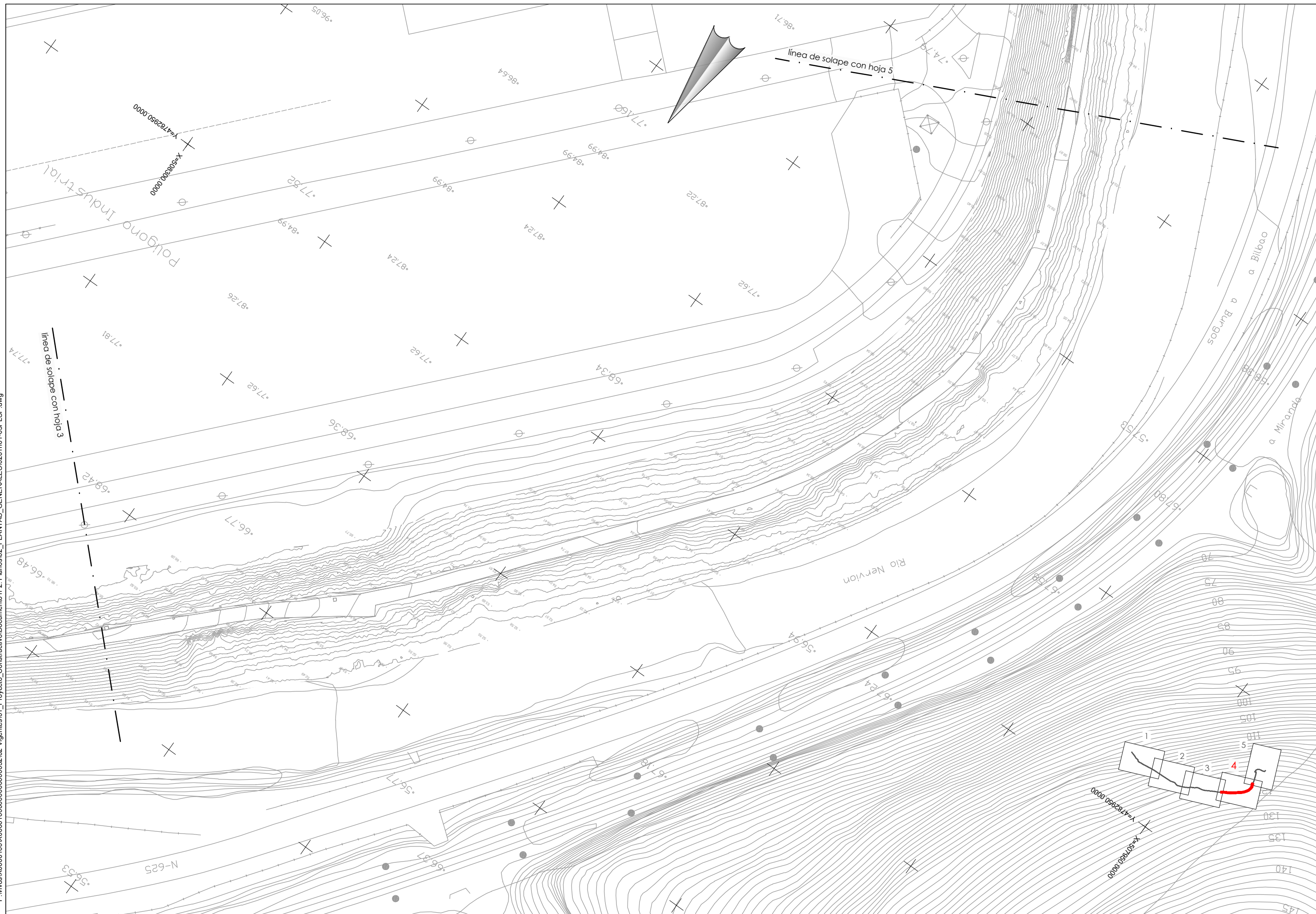
Hoja

Hoja 5

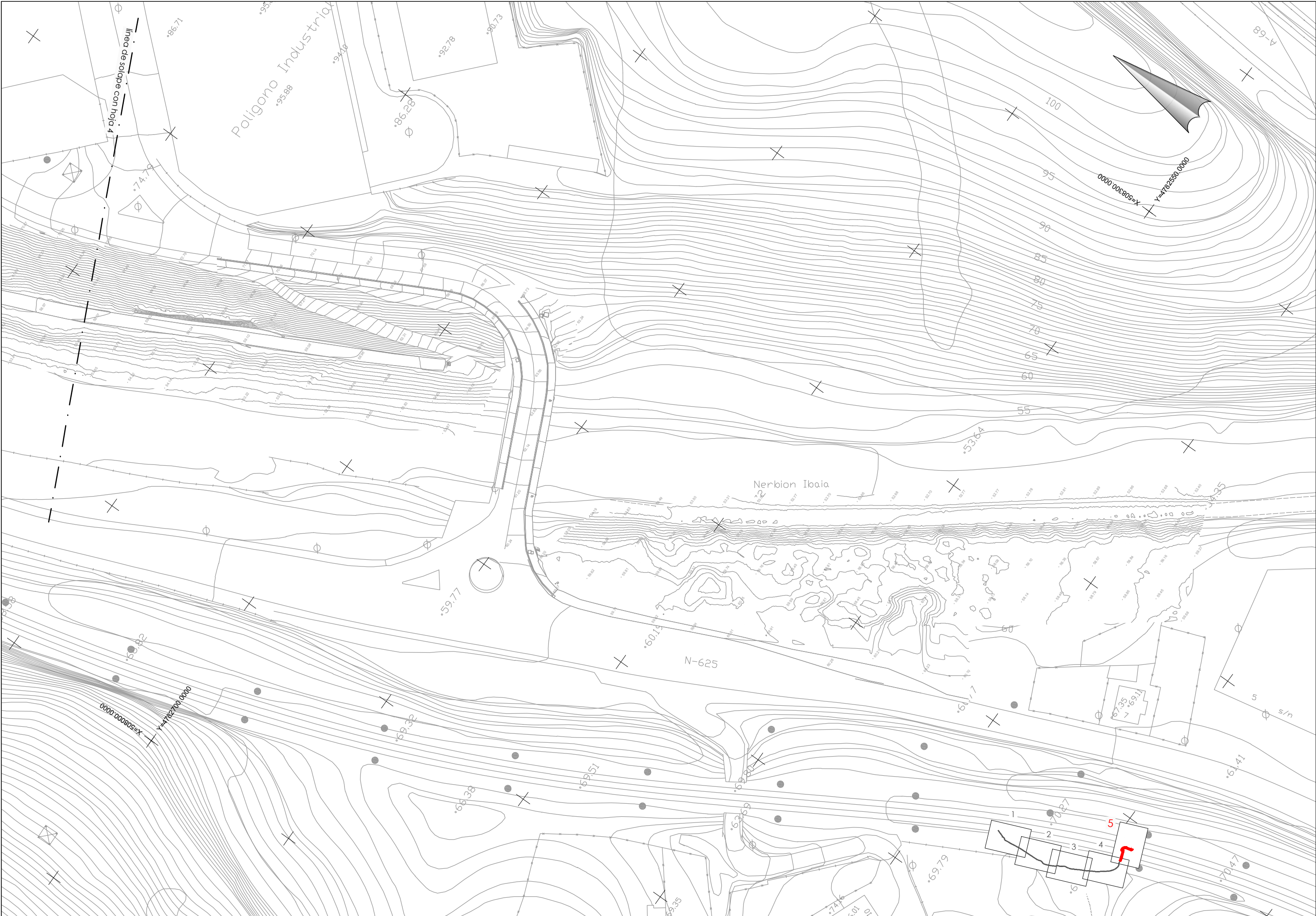
UGAO-MIRABALLES

ZEBERIO



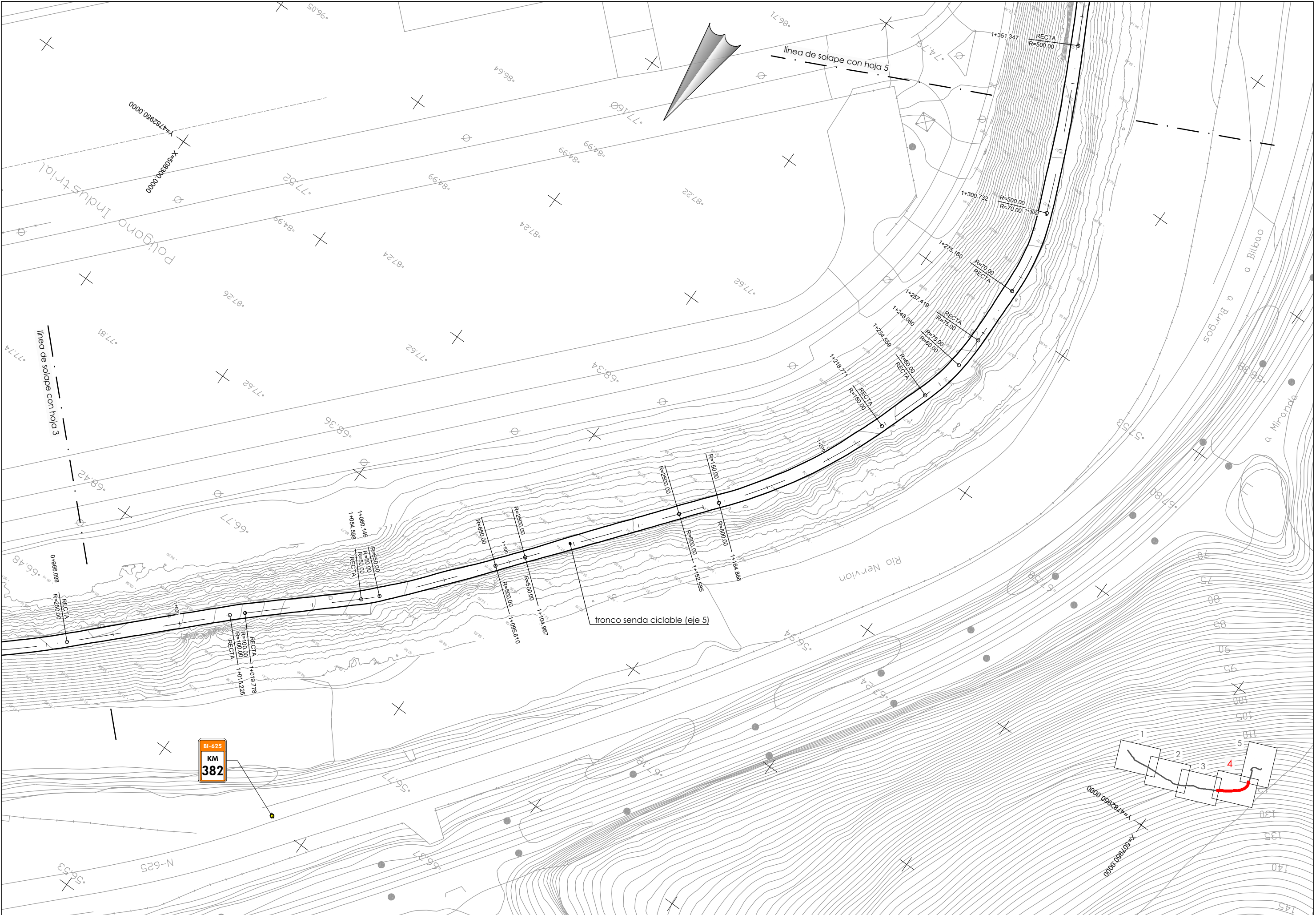


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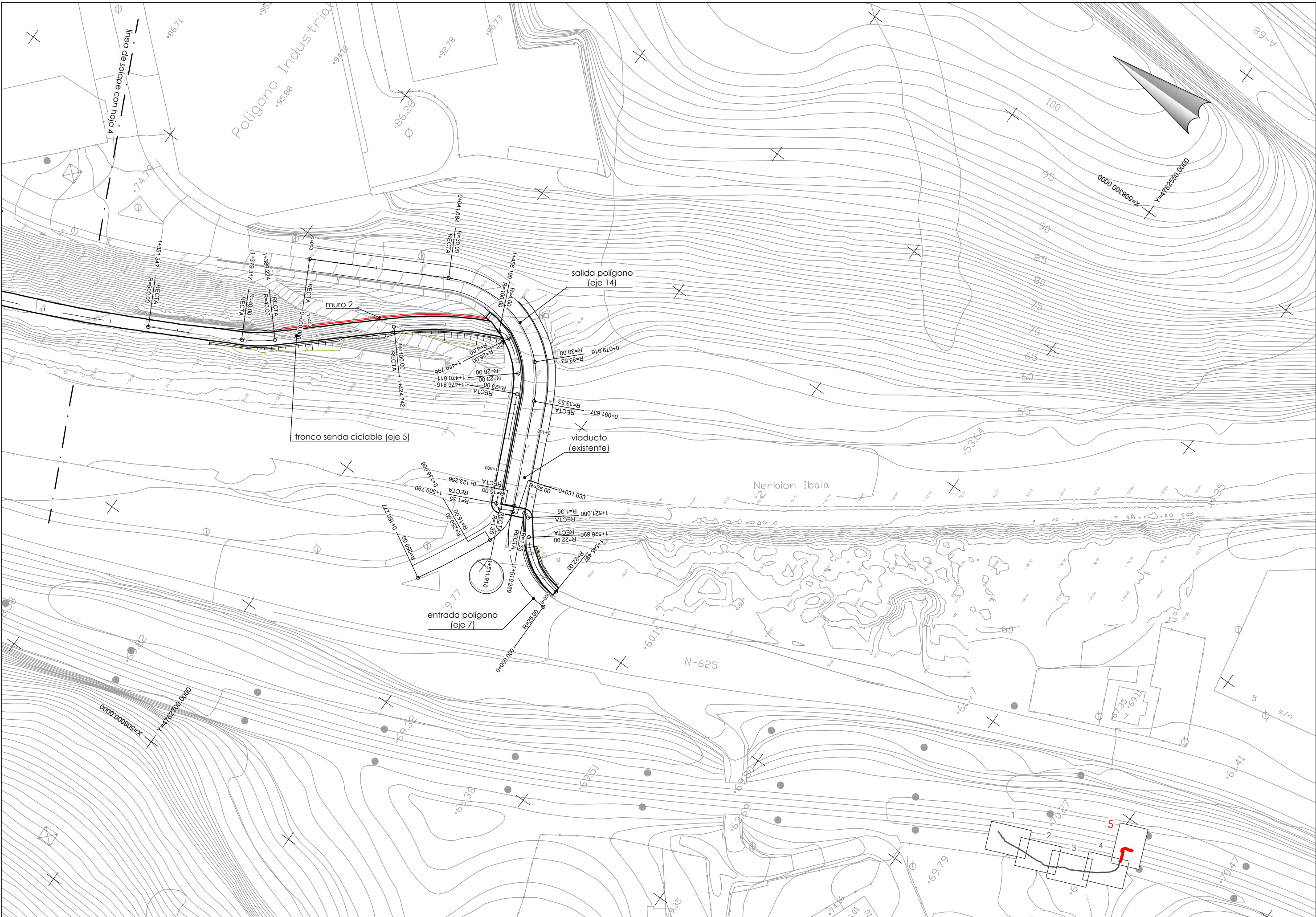




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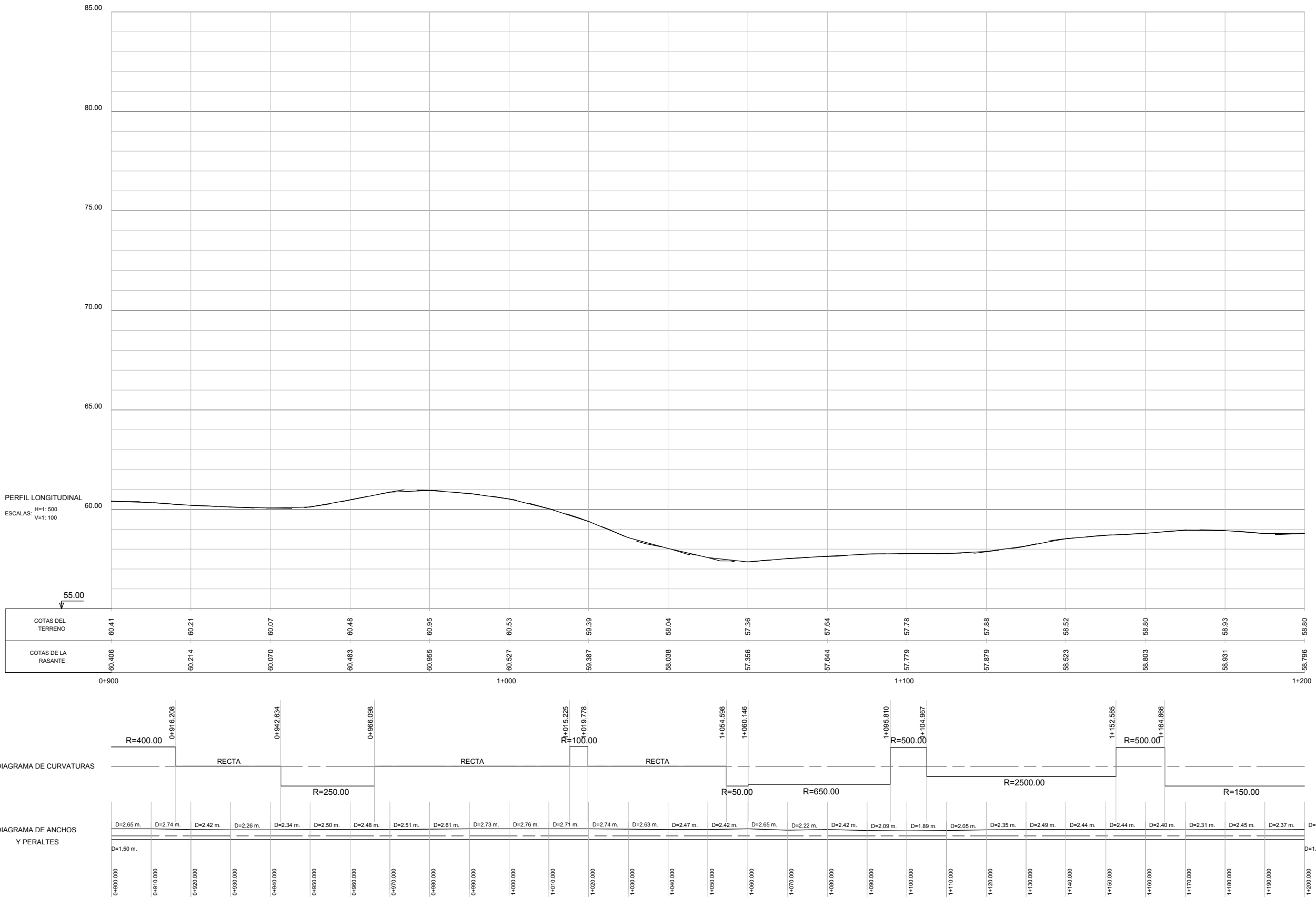


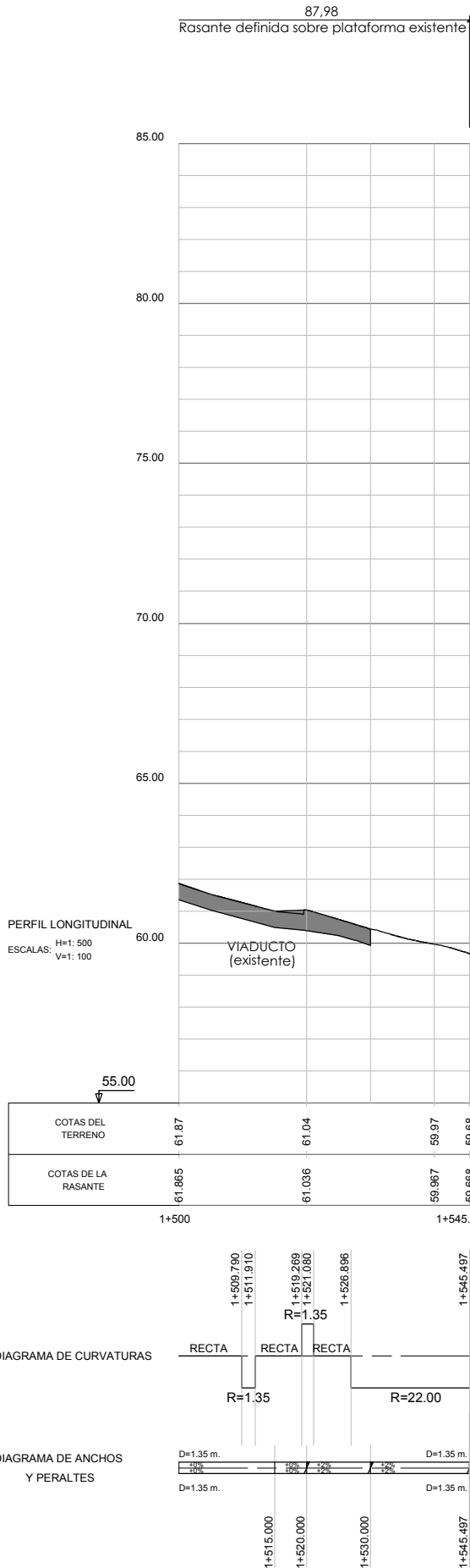


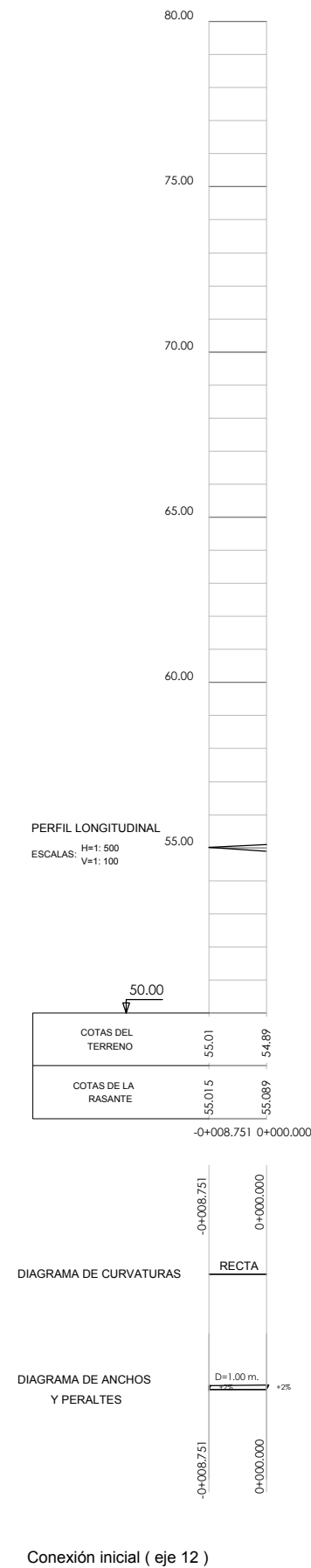
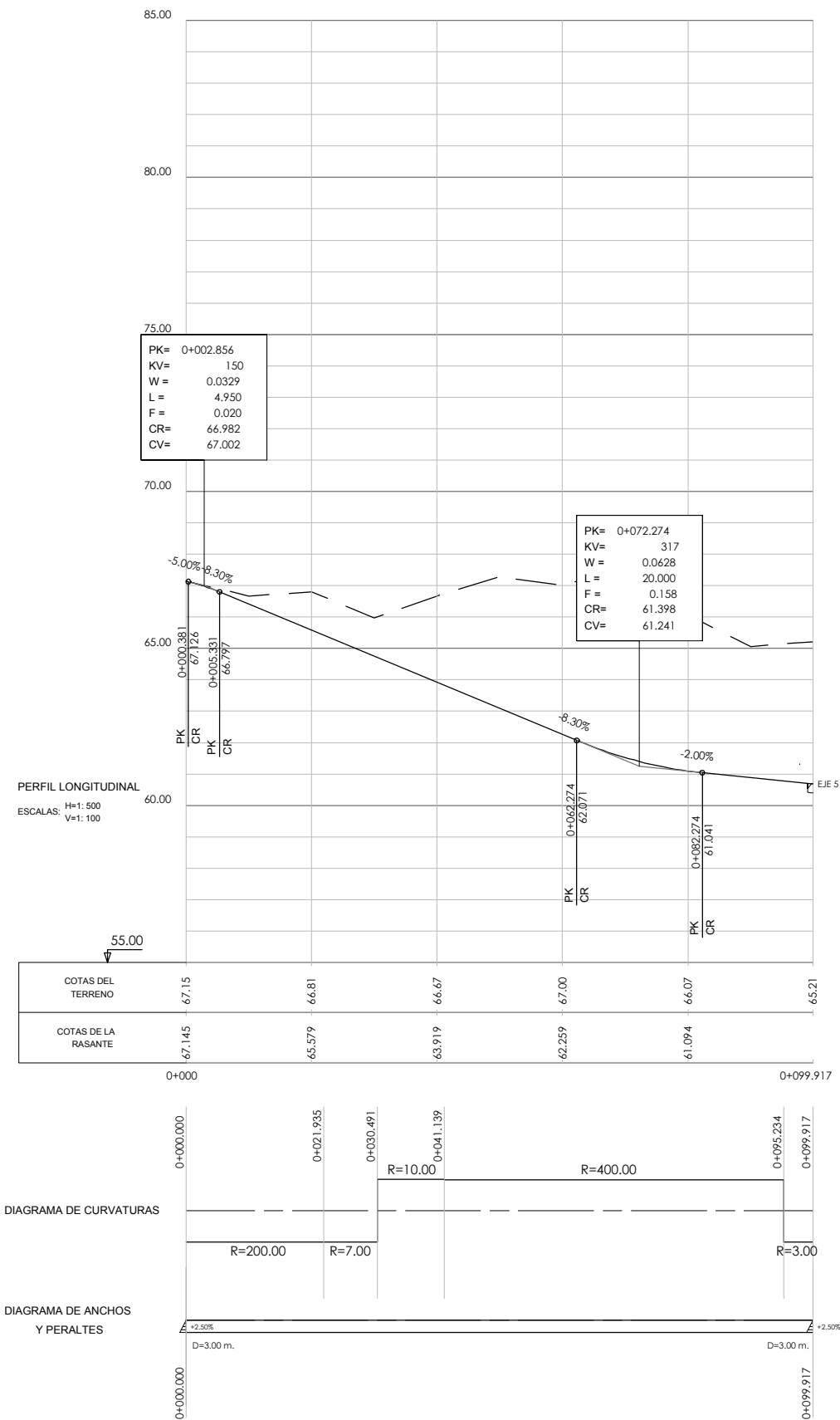


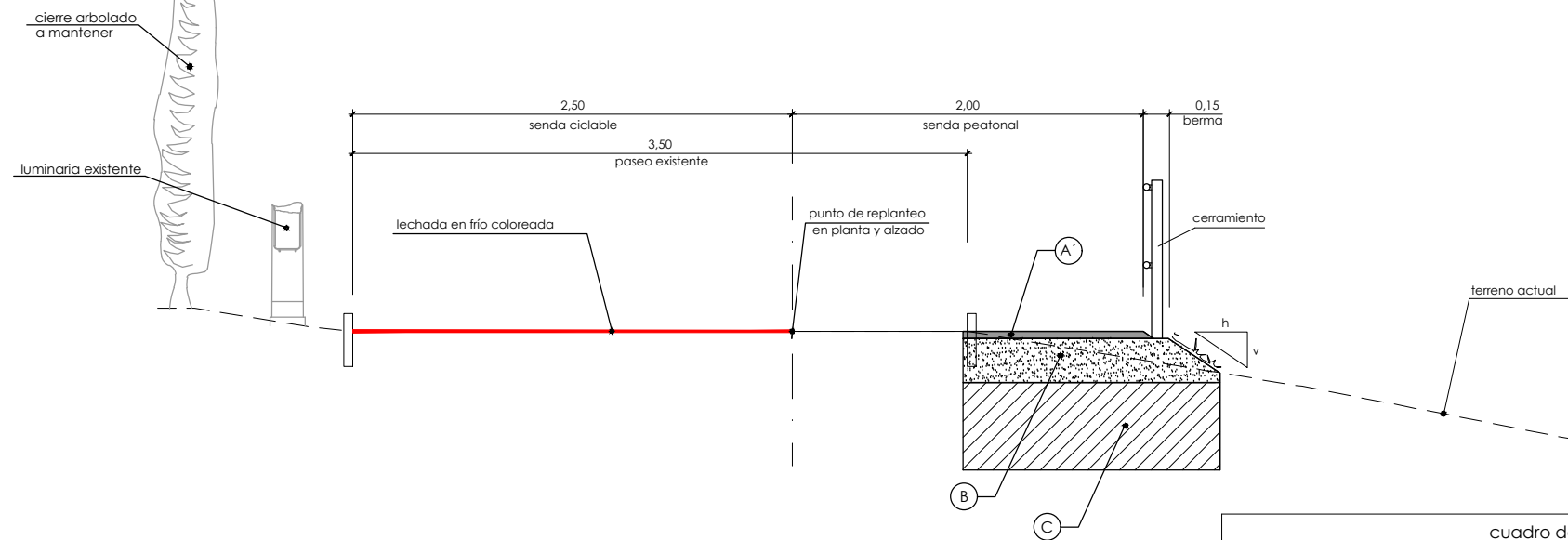
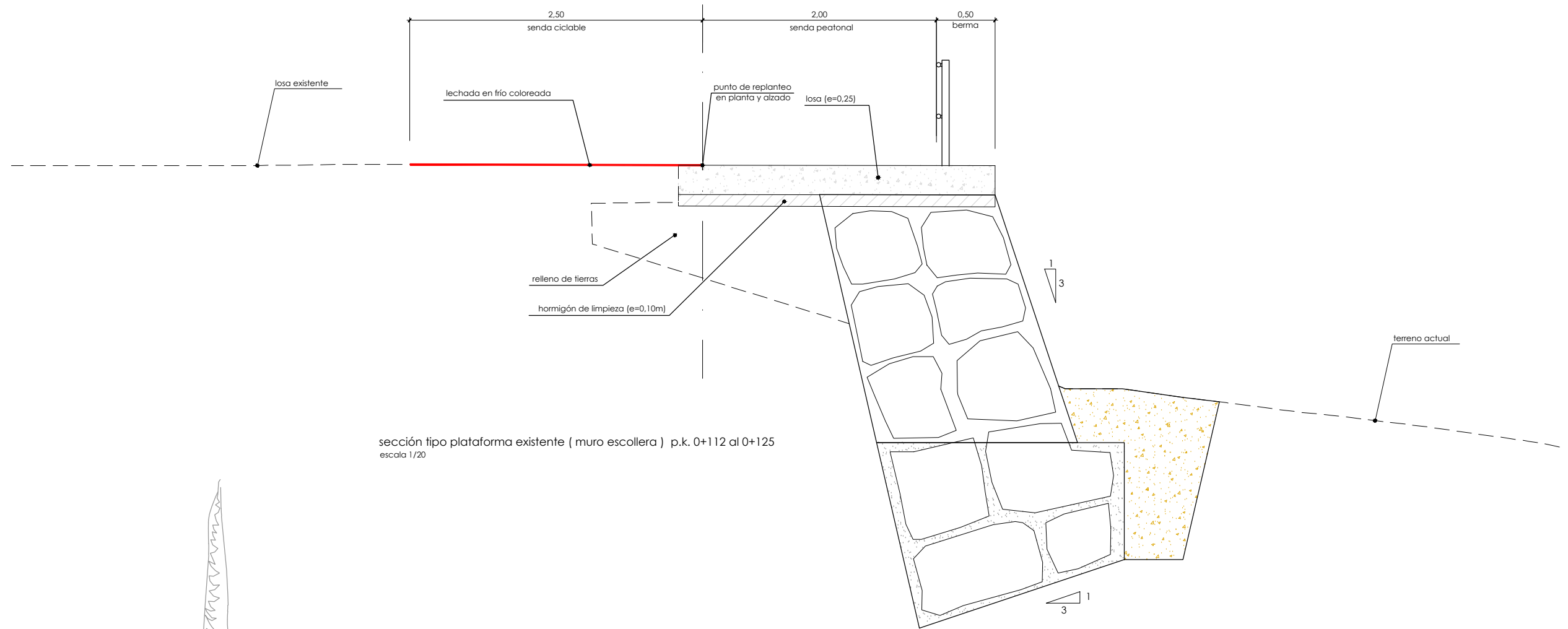








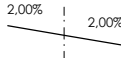
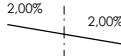
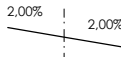
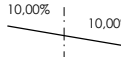




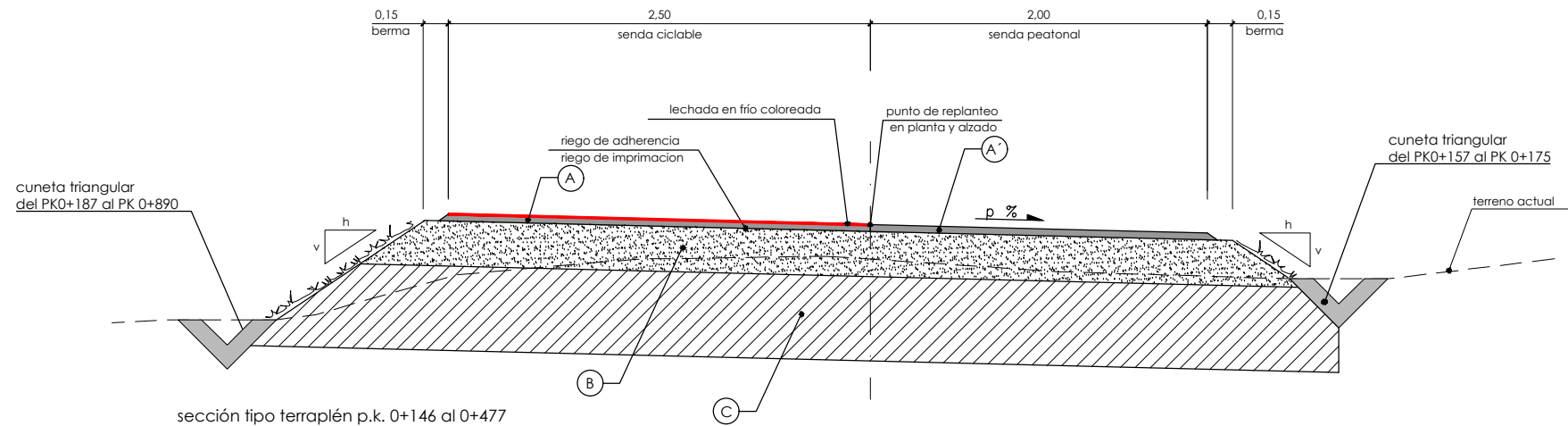
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escala 1/20

cuadro de materiales.			
tipo	material		espesor cm.
	A	lechada en frío coloreada *	4
		ac-8 surf d	
		riego de adherencia	
	B	riego de imprimación	25
		zahorra artificial	
	C	desmante tolerable	50 (\$S-3 o rc d
		terraplén	50 (\$S-3 o rc d

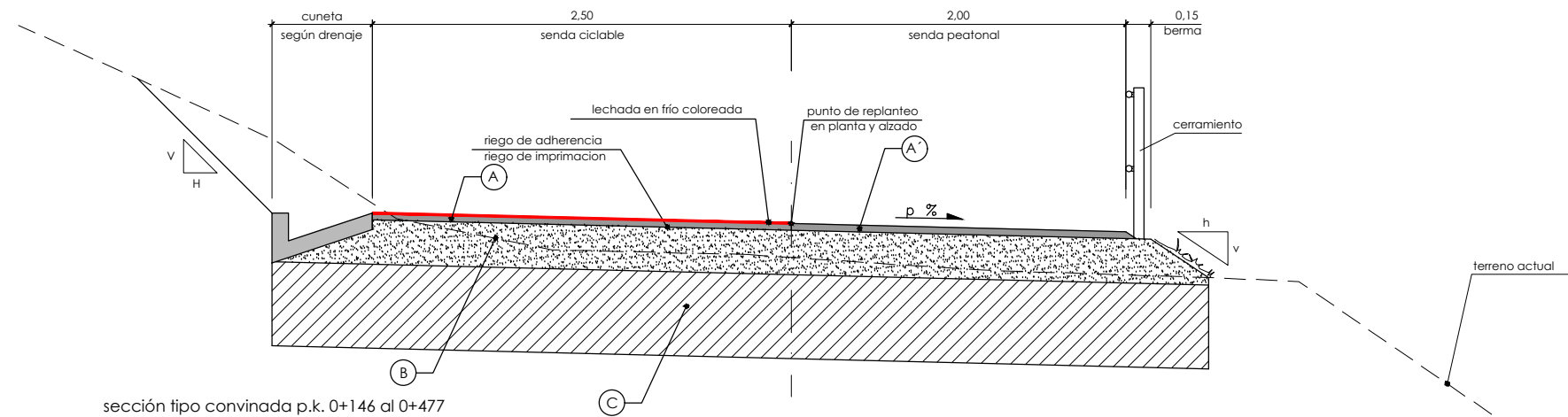
* SOLO EN BANDA RESONADA CICLISTAS

p.k.	peraltes p%
0+000 al 0+109	según plataforma existente
0+109 al 0+146	según plataforma existente
0+160 al 0+477	
0+477 al 0+506	según plataforma existente
0+506 al 0+788	
0+788 al 1+369	según plataforma existente
1+380 al 1+440	
1+453.30 (puntual)	
1+460 al 1+545	según plataforma existente

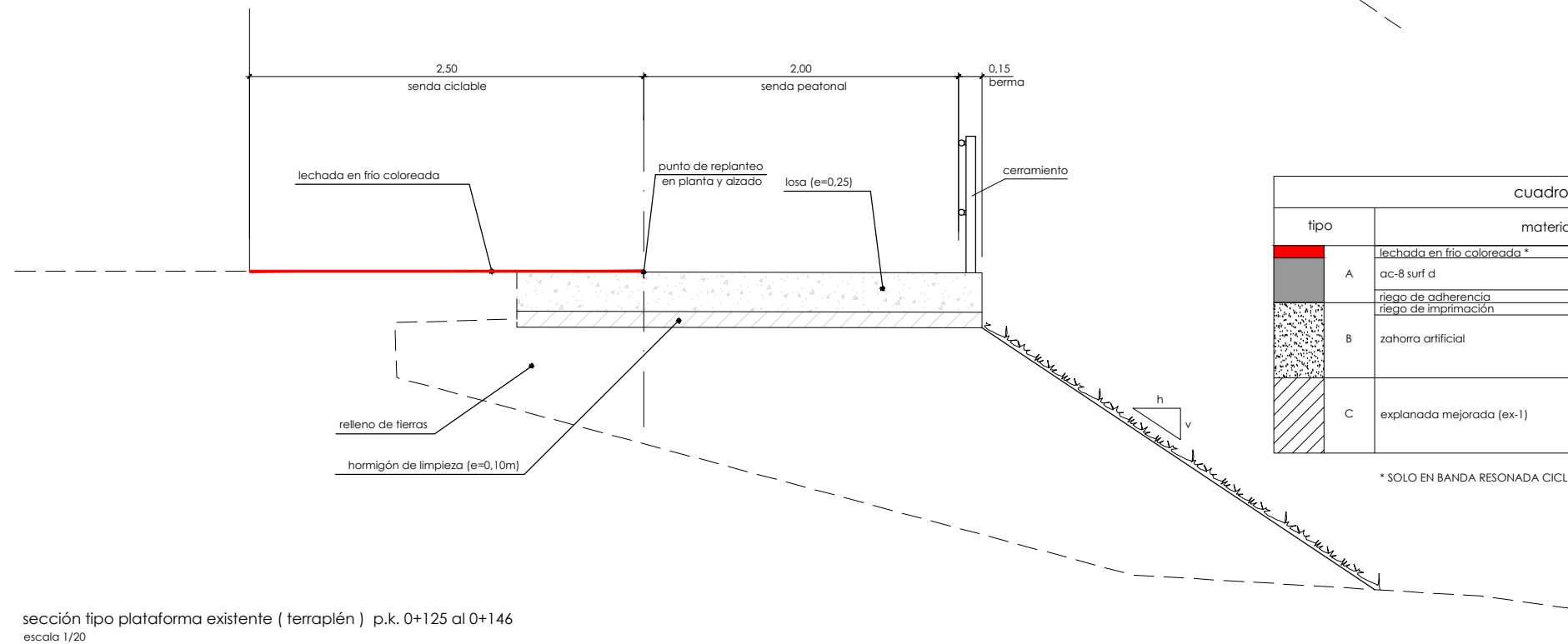
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sección tipo terraplén p.k. 0+146 al 0+477
escala 1/20



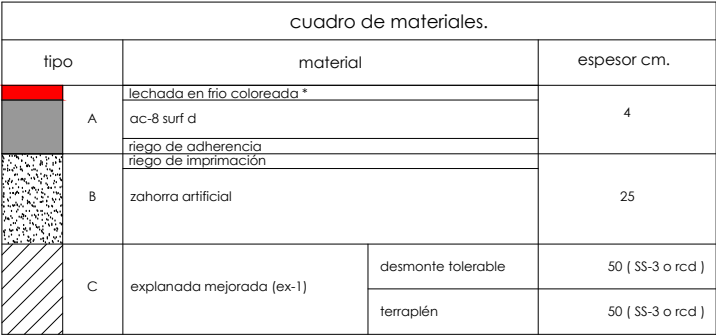
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escala 1/20

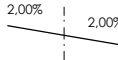
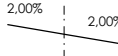
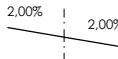
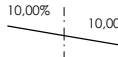


p.k.	peraltes p%
0+000 al 0+109	según plataforma existente
0+109 al 0+146	según plataforma existente
0+160 al 0+477	2,00% 2,00%
0+477 al 0+506	según plataforma existente
0+506 al 0+788	2,00% 2,00%
0+788 al 1+369	según plataforma existente
1+380 al 1+440	2,00% 2,00%
1+453.30 (puntual)	10,00% 10,00%
1+460 al 1+545	según plataforma existente

cuadro de materiales.				
tipo		material		espesor cm.
	A	lechada en frío coloreada *		4
		ac-8 surf d		
		riego de adherencia		
	B	riego de imprimación		25
		zahorra artificial		
	C	explanada mejorada (ex-1)		50 (S\$-3 o rcd)
			desmonte tolerable	50 (S\$-3 o rcd)
	C	terraplén		50 (S\$-3 o rcd)

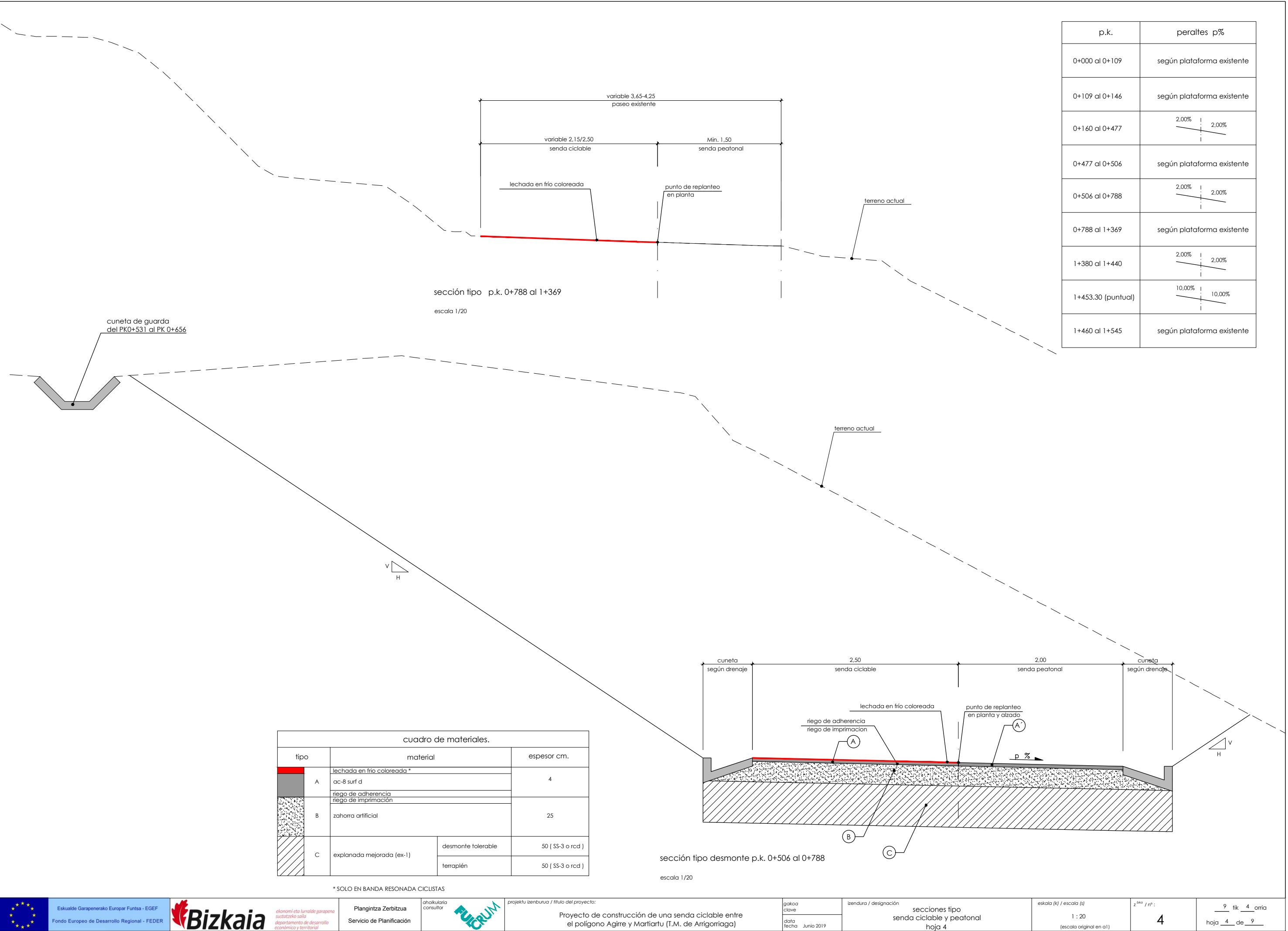
* SOLO EN BANDA RESONADA CICLISTAS



p.k.	peraltes p%
0+000 al 0+109	según plataforma existente
0+109 al 0+146	según plataforma existente
0+160 al 0+477	
0+477 al 0+506	según plataforma existente
0+506 al 0+788	
0+788 al 1+369	según plataforma existente
1+380 al 1+440	
1+453.30 (puntual)	
1+460 al 1+545	según plataforma existente

* SOLO EN BANDA RESONADA CICLISTAS

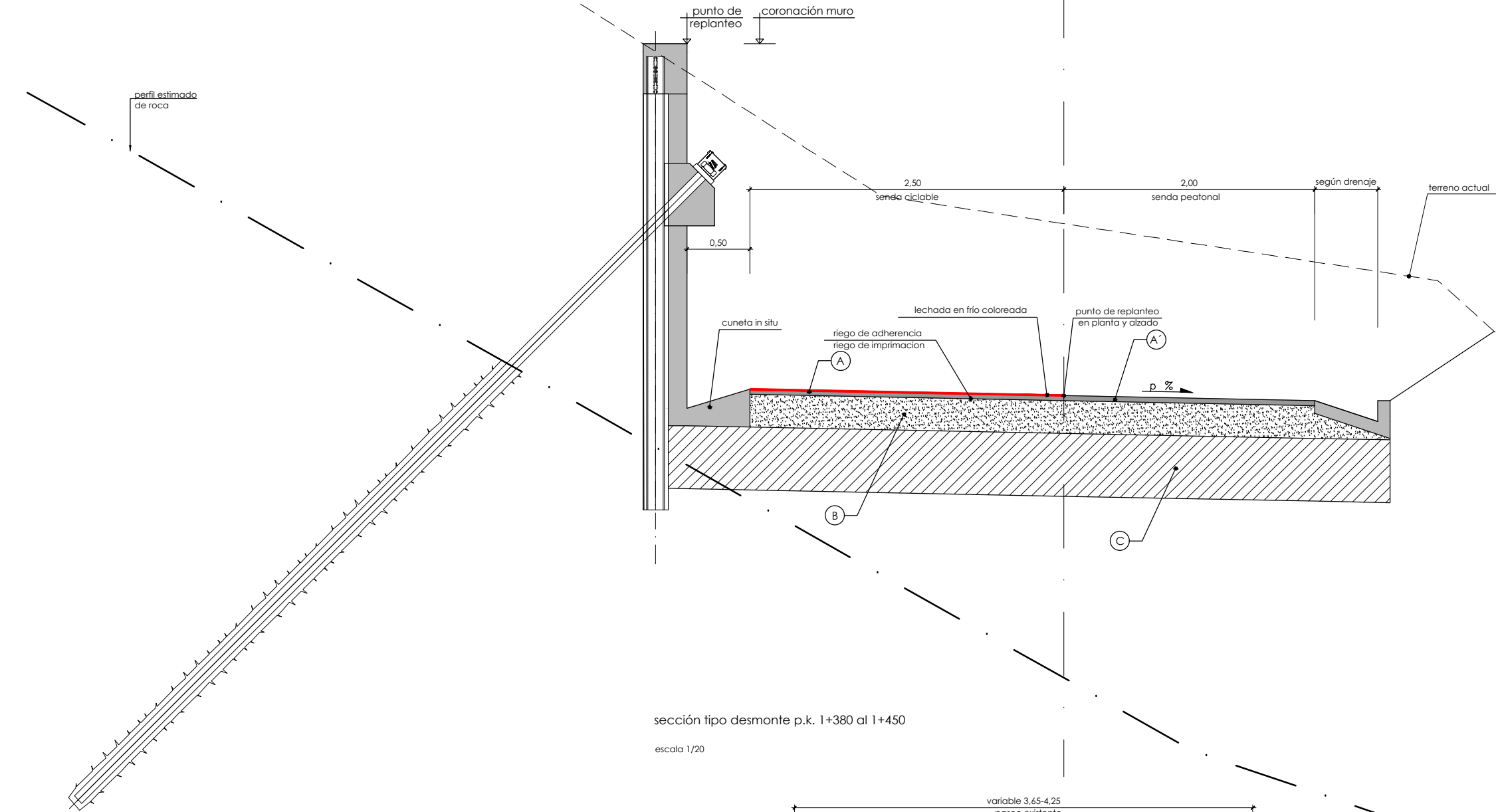
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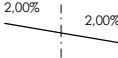
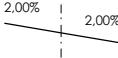
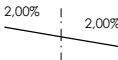
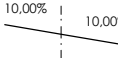


p.k.	peraltes p%
0+000 al 0+109	según plataforma existente
0+109 al 0+146	según plataforma existente
0+160 al 0+477	2.00% 2.00%
0+477 al 0+506	según plataforma existente
0+506 al 0+788	2.00% 2.00%
0+788 al 1+369	según plataforma existente
1+380 al 1+440	2.00% 2.00%
1+453.30 (puntual)	10.00% 10.00%
1+460 al 1+545	según plataforma existente

cuadro de materiales.				
tipo	material		espesor cm.	
	A	lechada en frío coloreada *	4	
		ac-8 surf d		
		riego de adherencia riego de imprimación		
	B	zahorra artificial	25	
	C	explanada mejorada (ex-1)	desmante tolerable	50 (SS-3 o rcd)
			terraplén	50 (SS-3 o rcd)

* SOLO EN BANDA RESONADA CICLISTAS



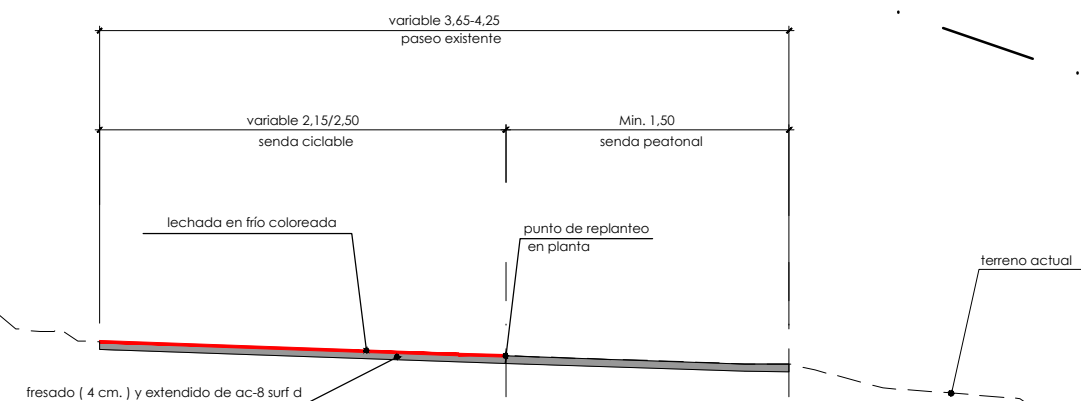
p.k.	peraltes p%
0+000 al 0+109	según plataforma existente
0+109 al 0+146	según plataforma existente
0+160 al 0+477	
0+477 al 0+506	según plataforma existente
0+506 al 0+788	
0+788 al 1+369	según plataforma existente
1+380 al 1+440	
1+453.30 (puntual)	
1+460 al 1+545	según plataforma existente

sección tipo desmonte p.k. 1+380 al 1+450

escala 1/20

cuadro de materiales.			
tipo	material		espesor cm.
	A	lechada en frío coloreada *	4
		ac-8 surf d	
		riego de adherencia riego de imprimación	
	B	zahrora artificial	25
	C	desmonte tolerable	50 (SS-3 o rcd)
		terraplén	50 (SS-3 o rcd)

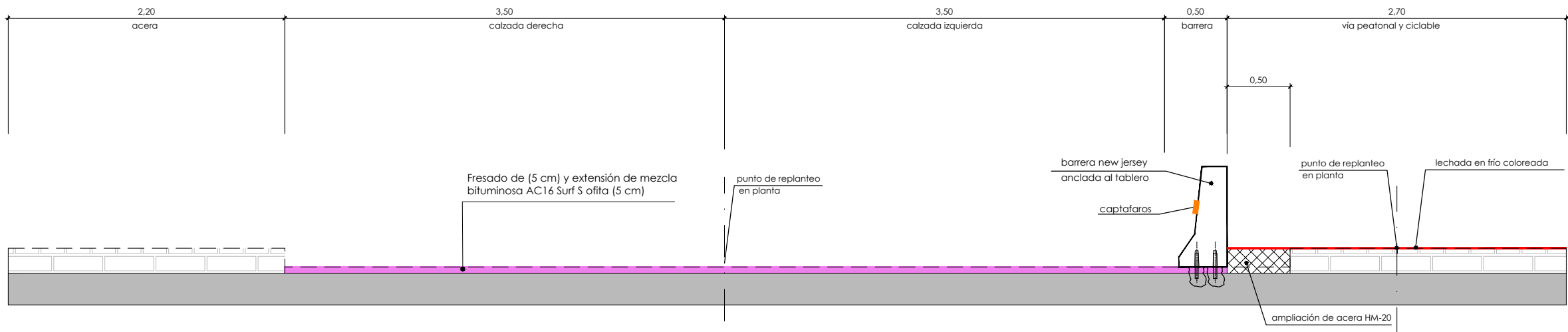
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sección tipo p.k. 0+788 al 1+369 (saneo)

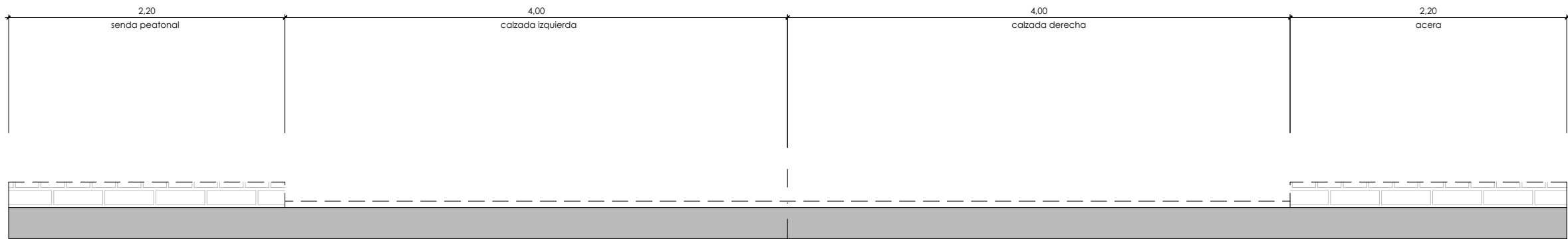
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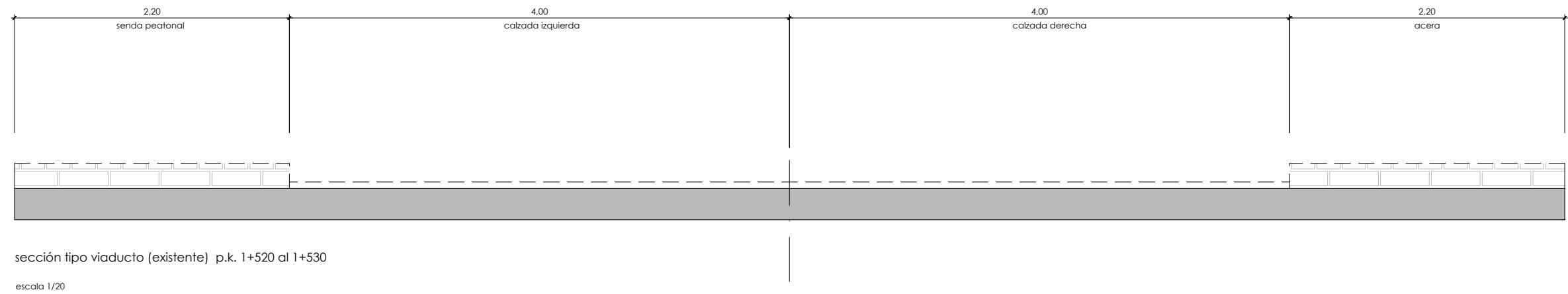
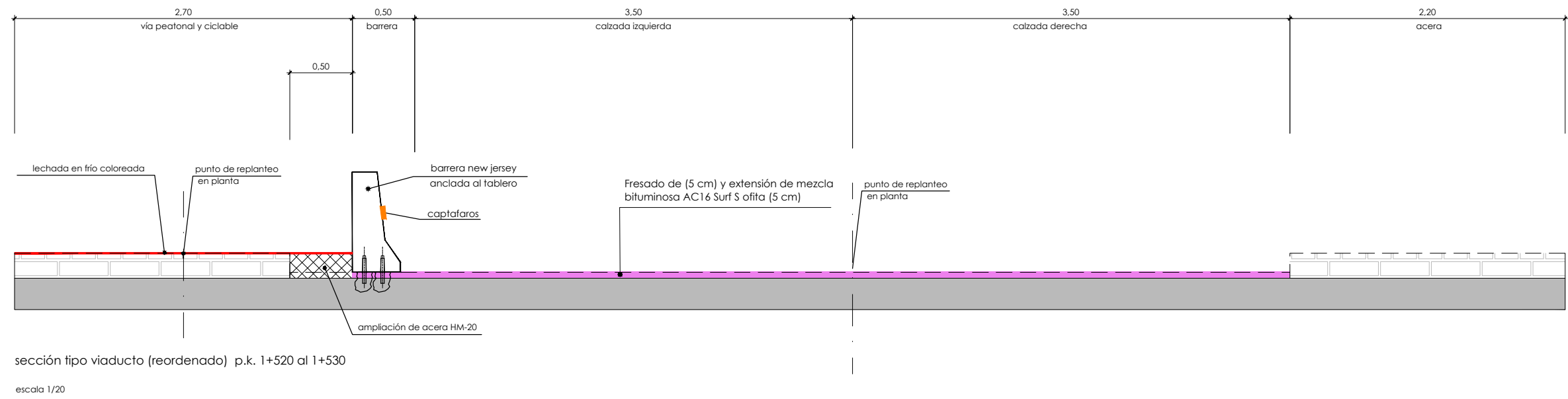
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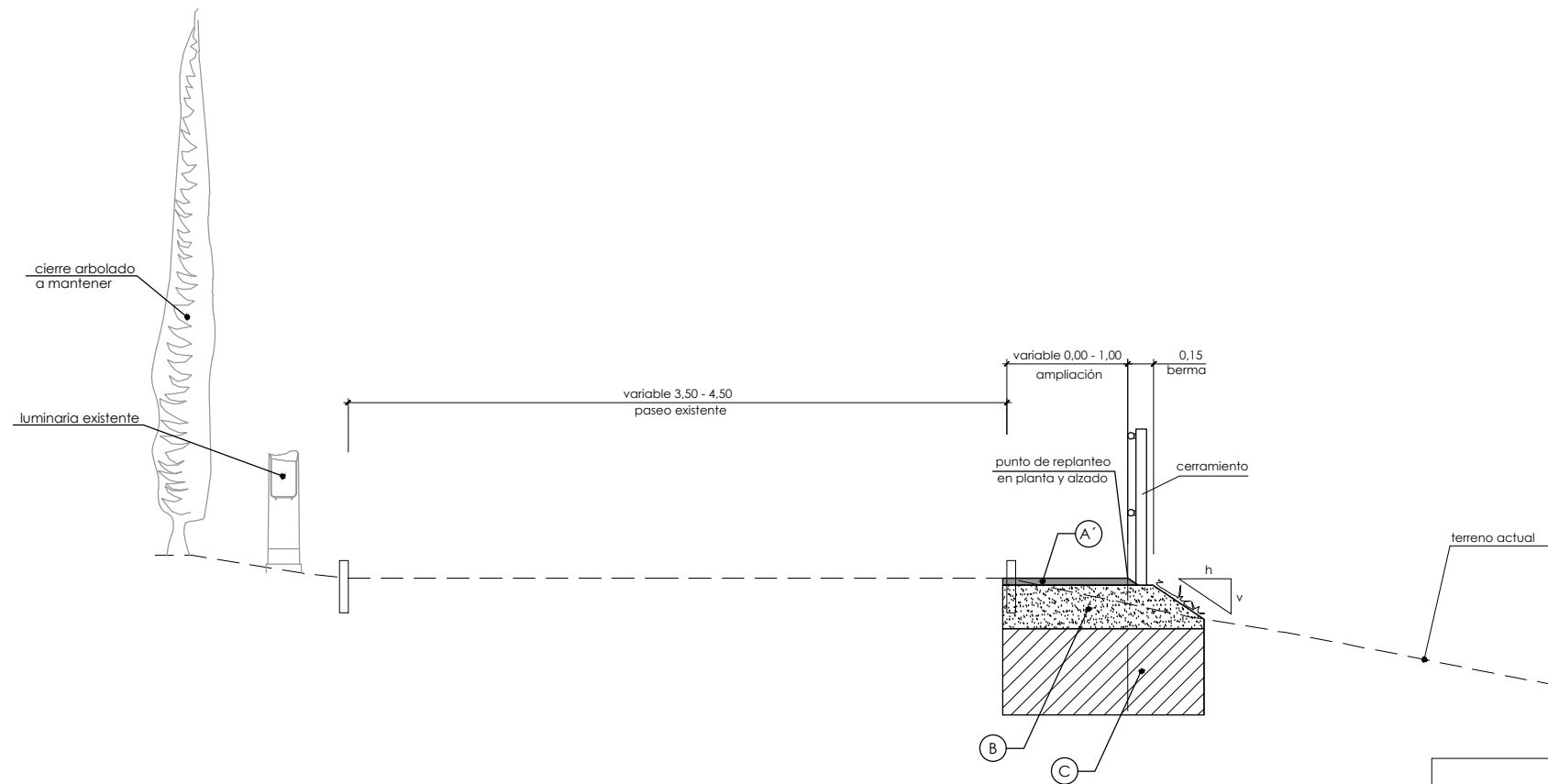
escala 1/20



sección tipo viaducto (existente) p.k. 1+460 al 1+510

escala 1/20



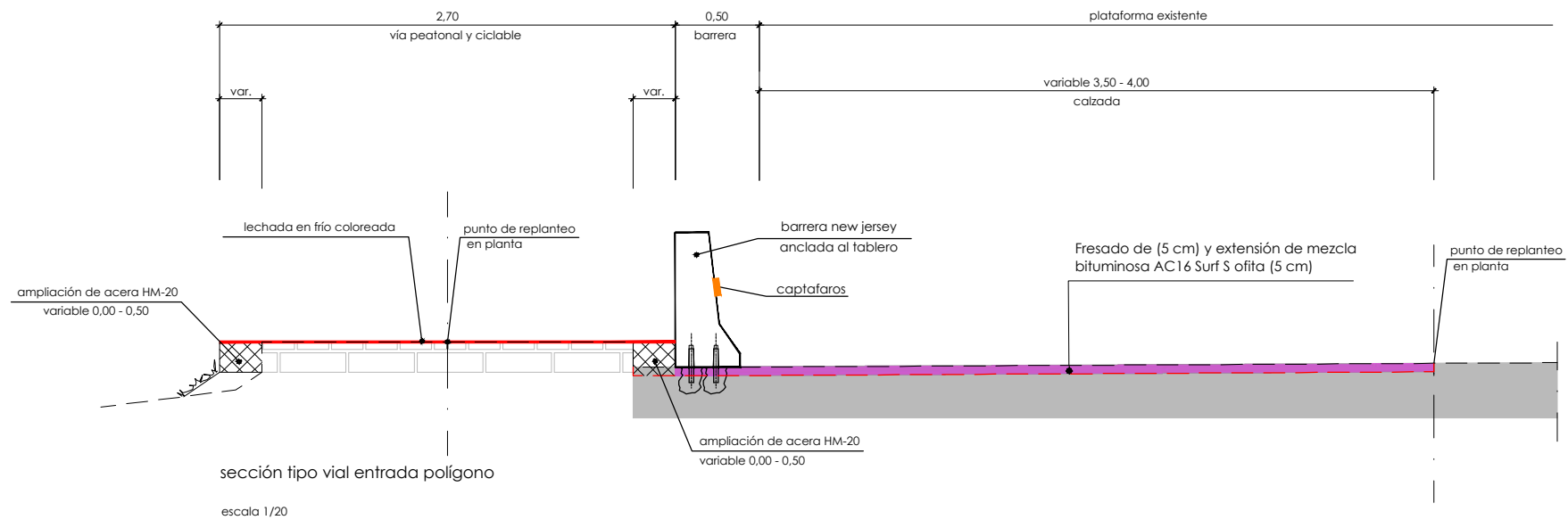
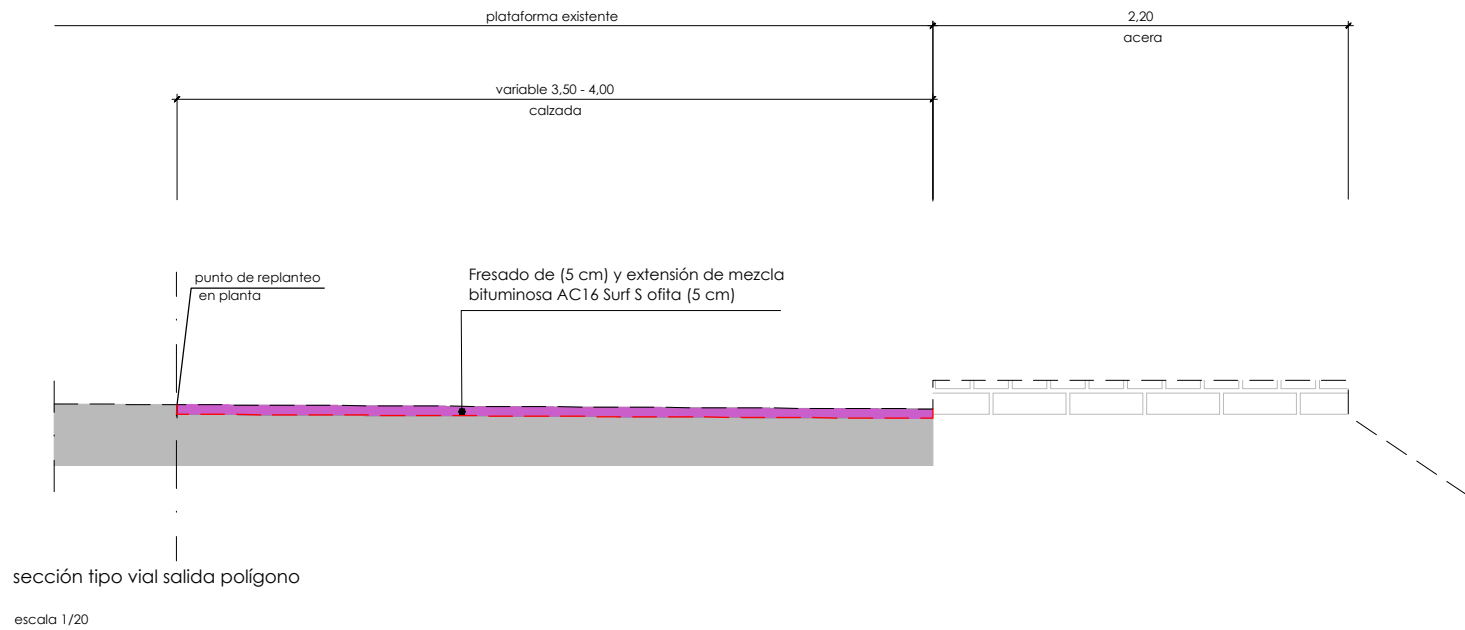


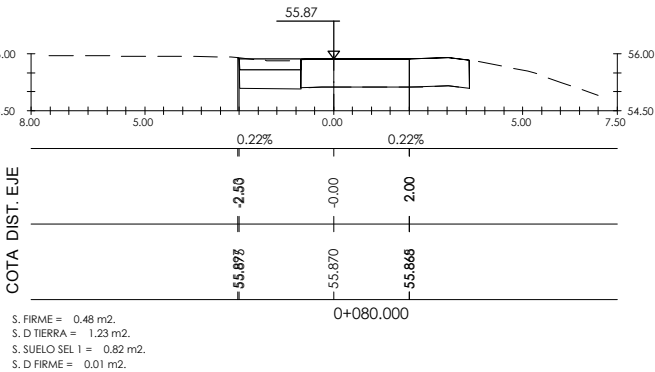
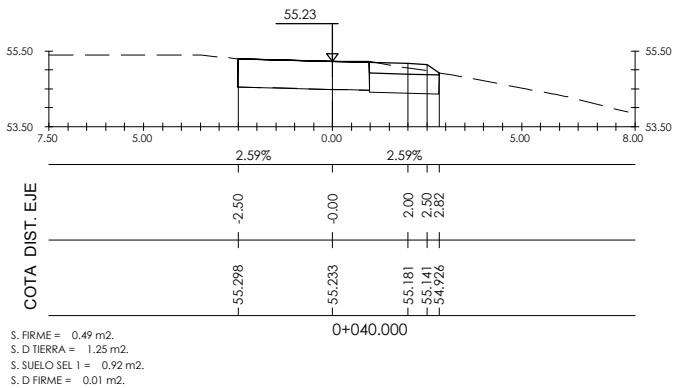
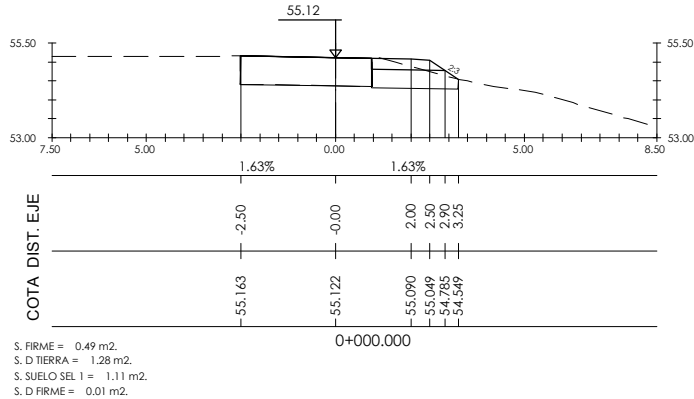
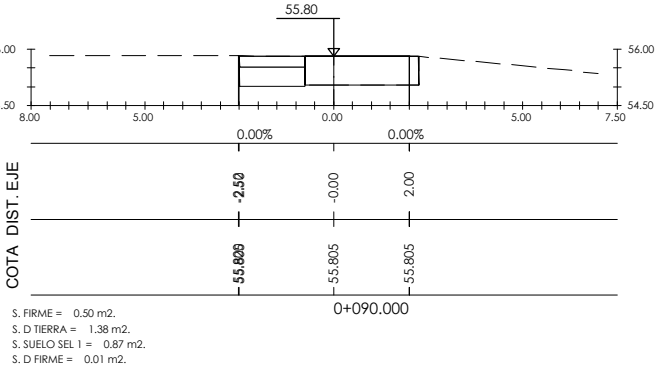
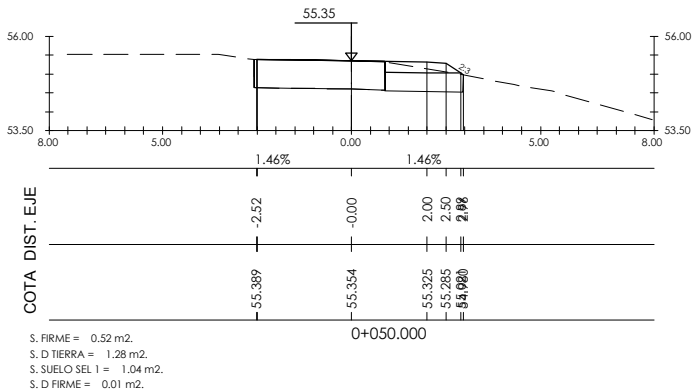
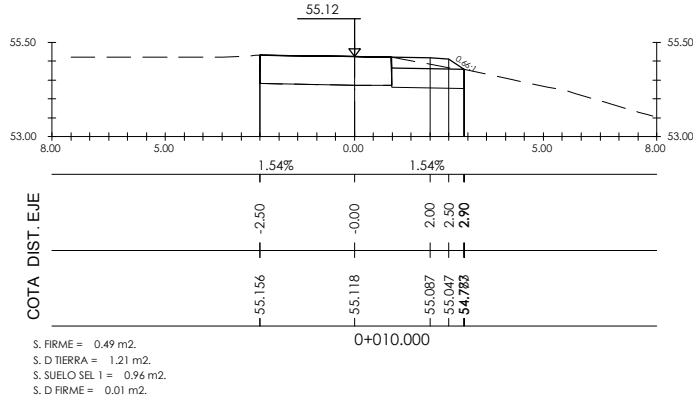
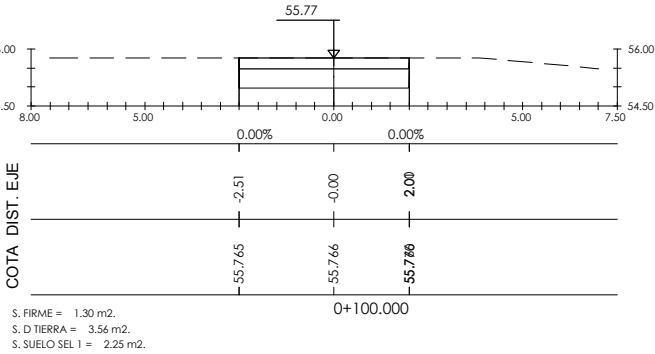
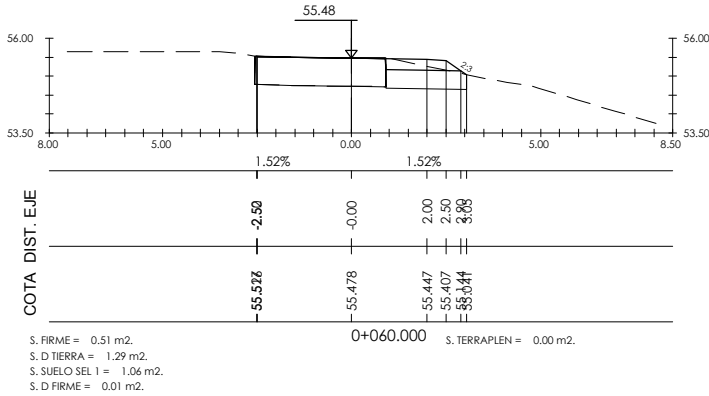
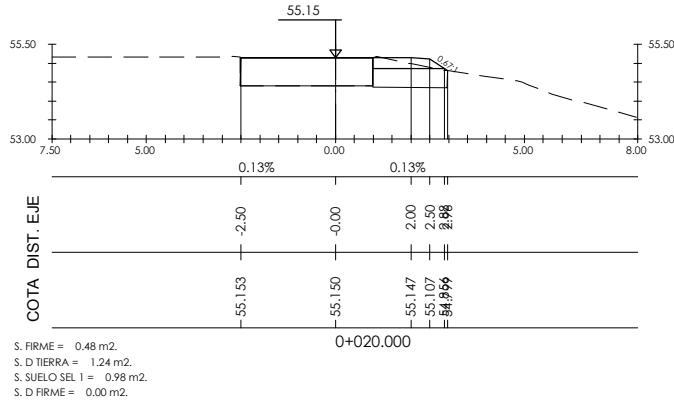
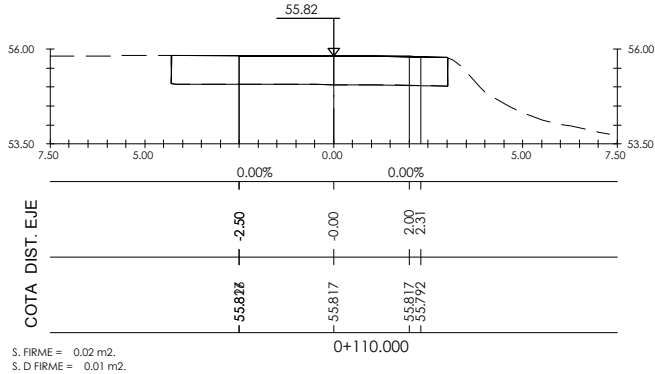
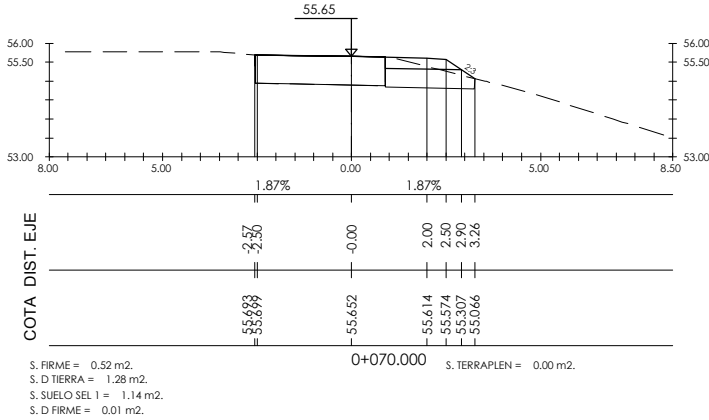
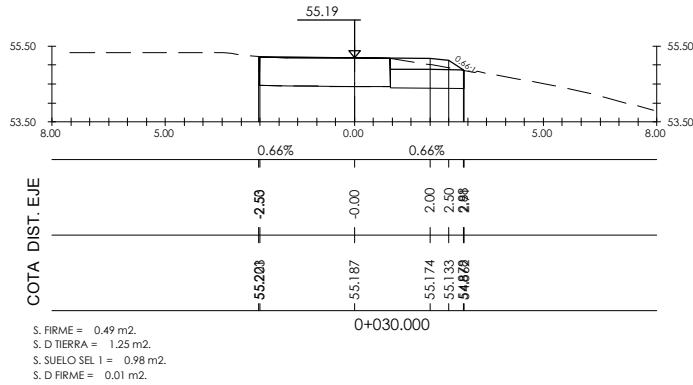
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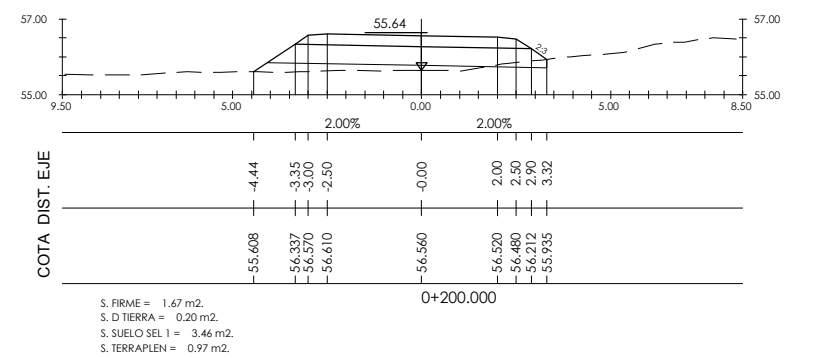
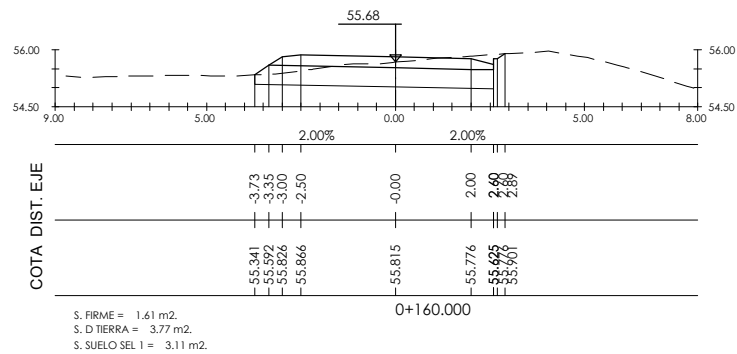
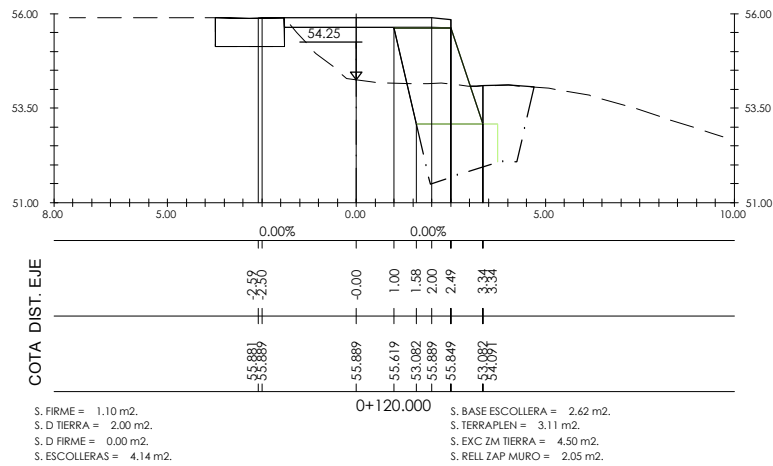
tipo	material		espesor cm.	
	A	lechada en frío coloreada *	4	
		ac-8 surf d		
		riego de adherencia		
	B	riego de imprimación	25	
		zahorra artificial		
	C	explanada mejorada (ex-1)	desmante tolerable	50 (≤3 o rcd)
			terraplén	50 (≤3 o rcd)

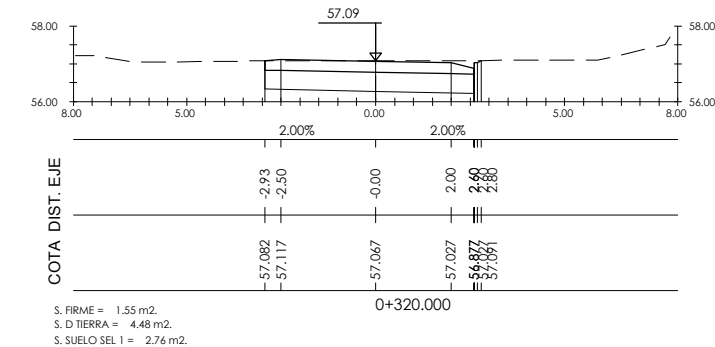
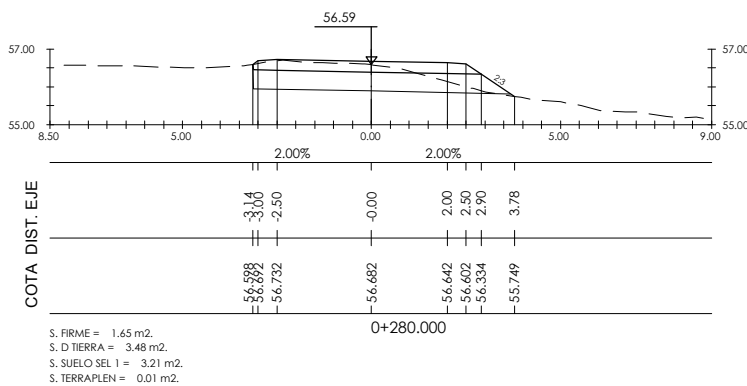
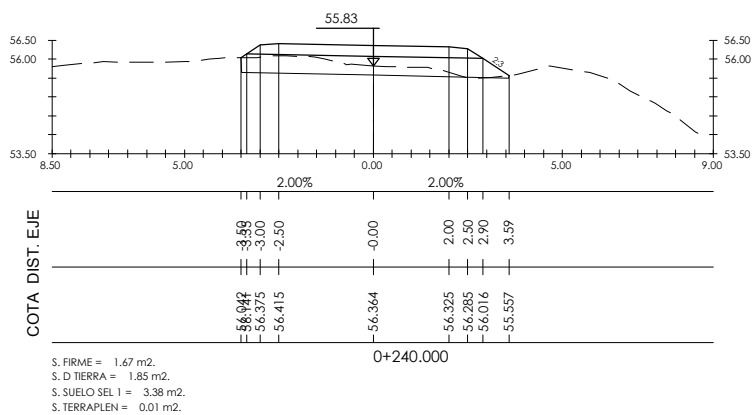
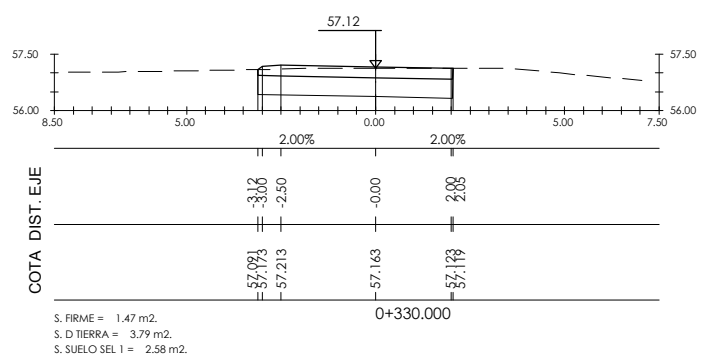
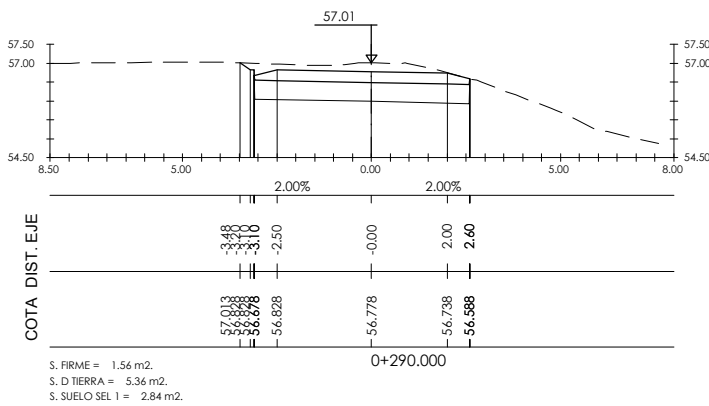
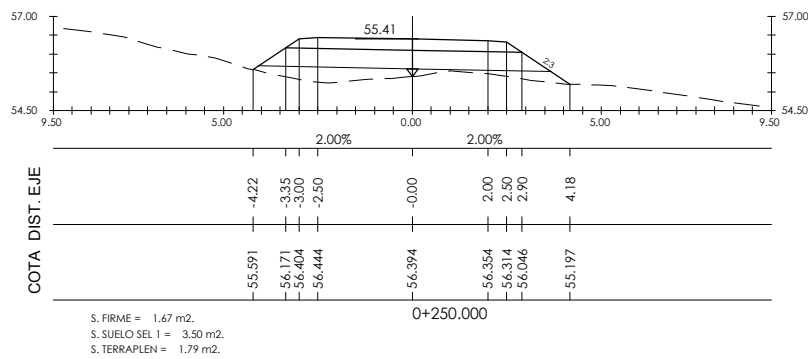
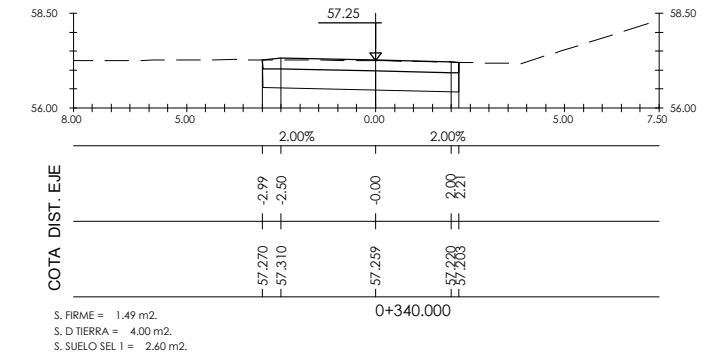
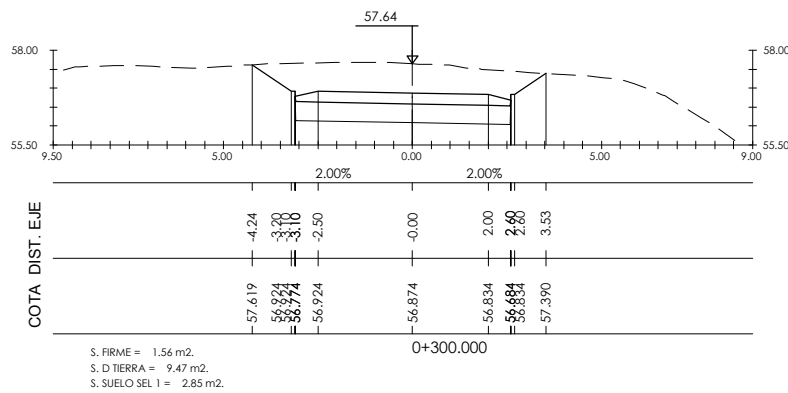
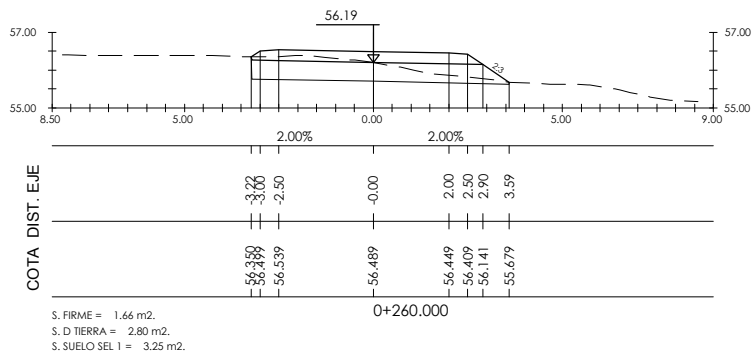
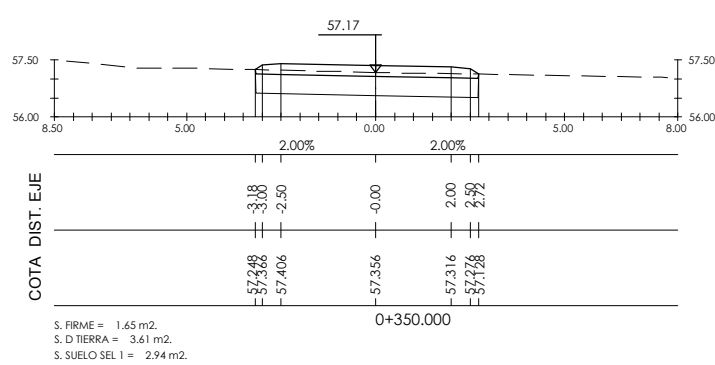
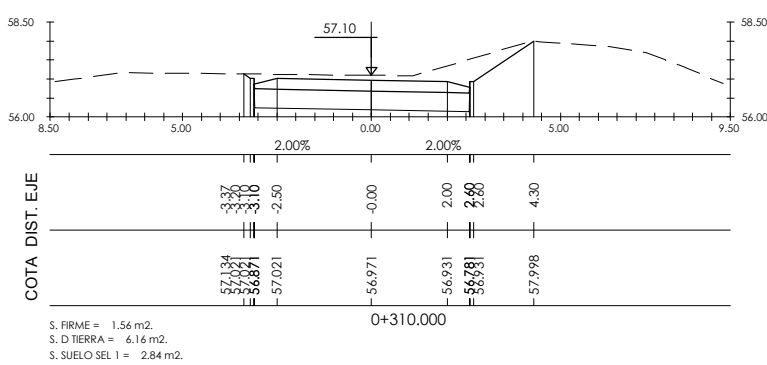
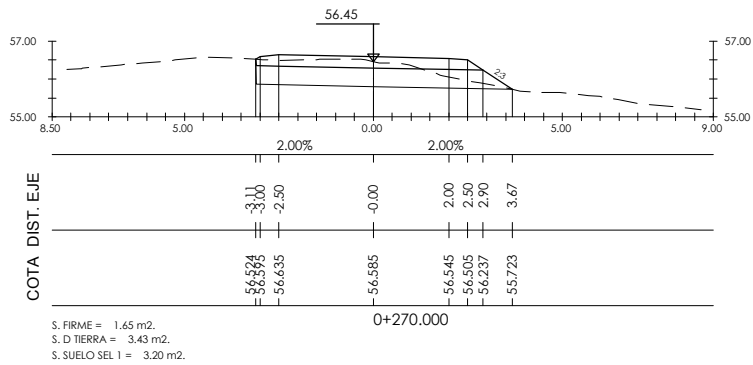
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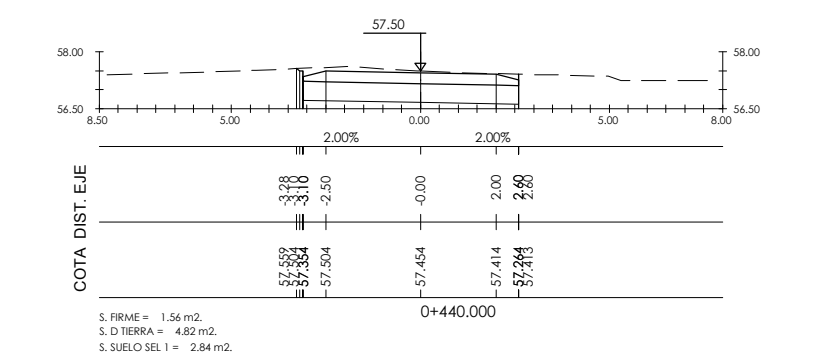
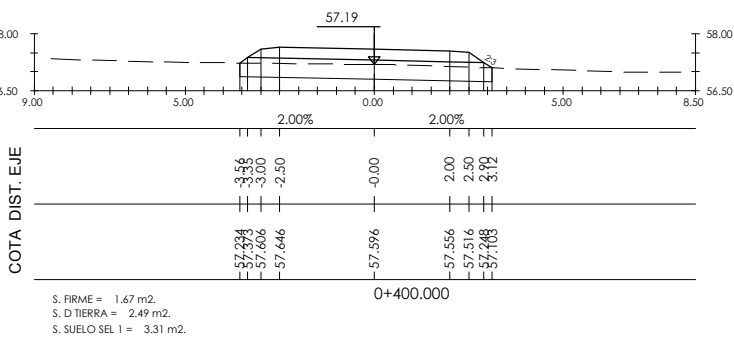
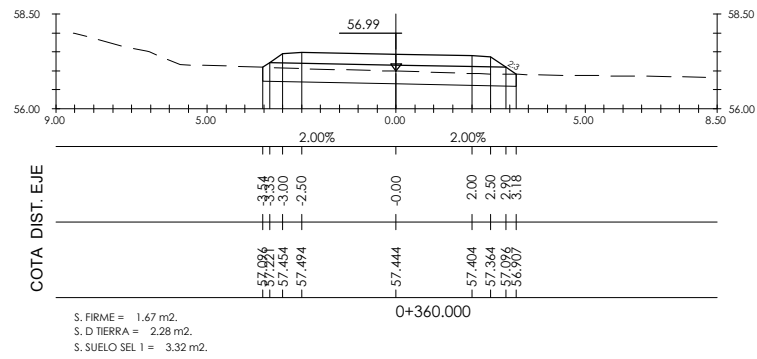
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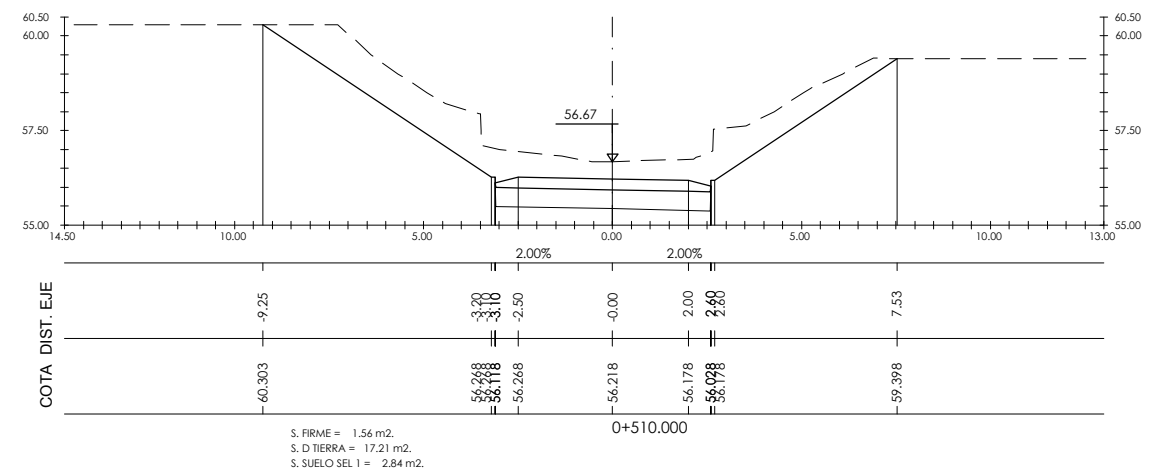
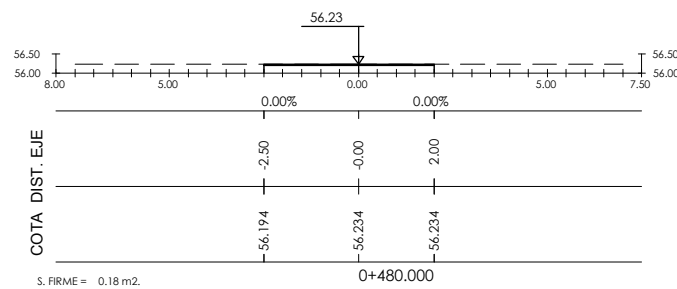


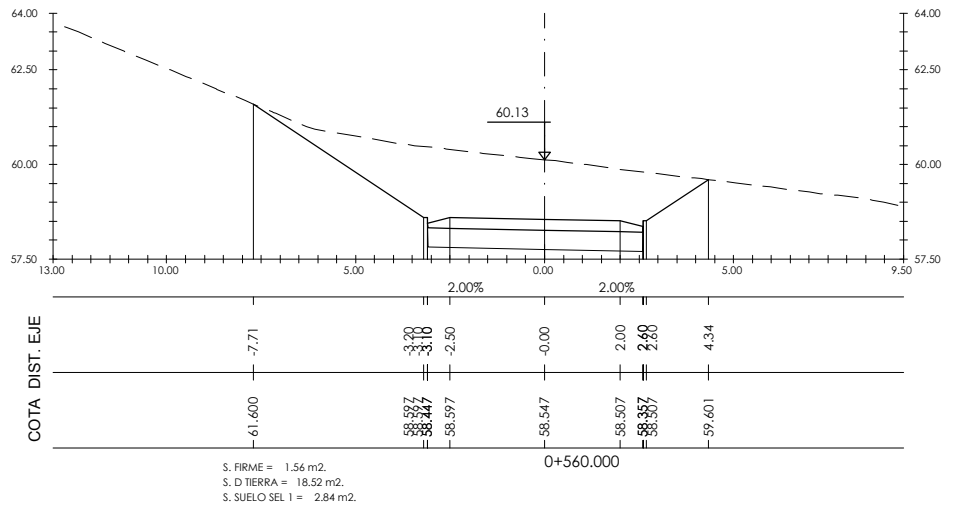
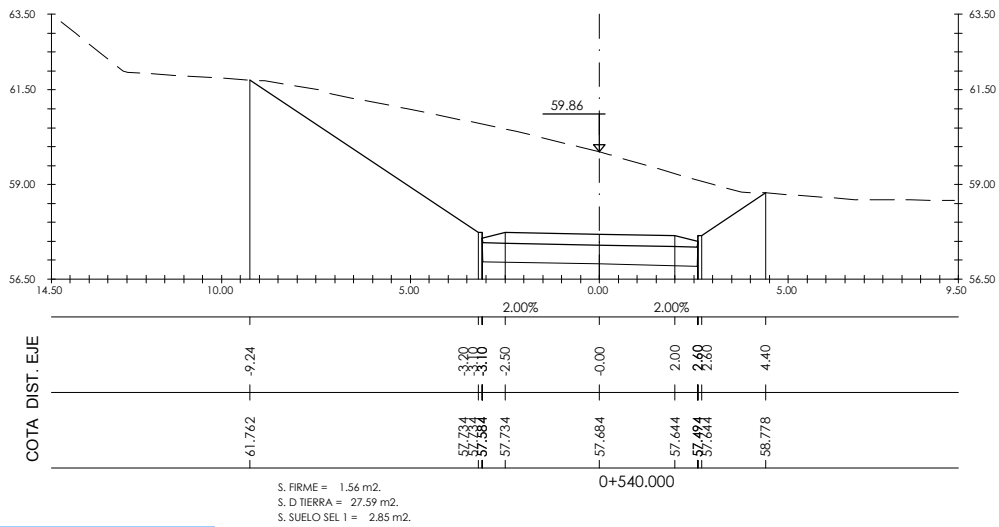
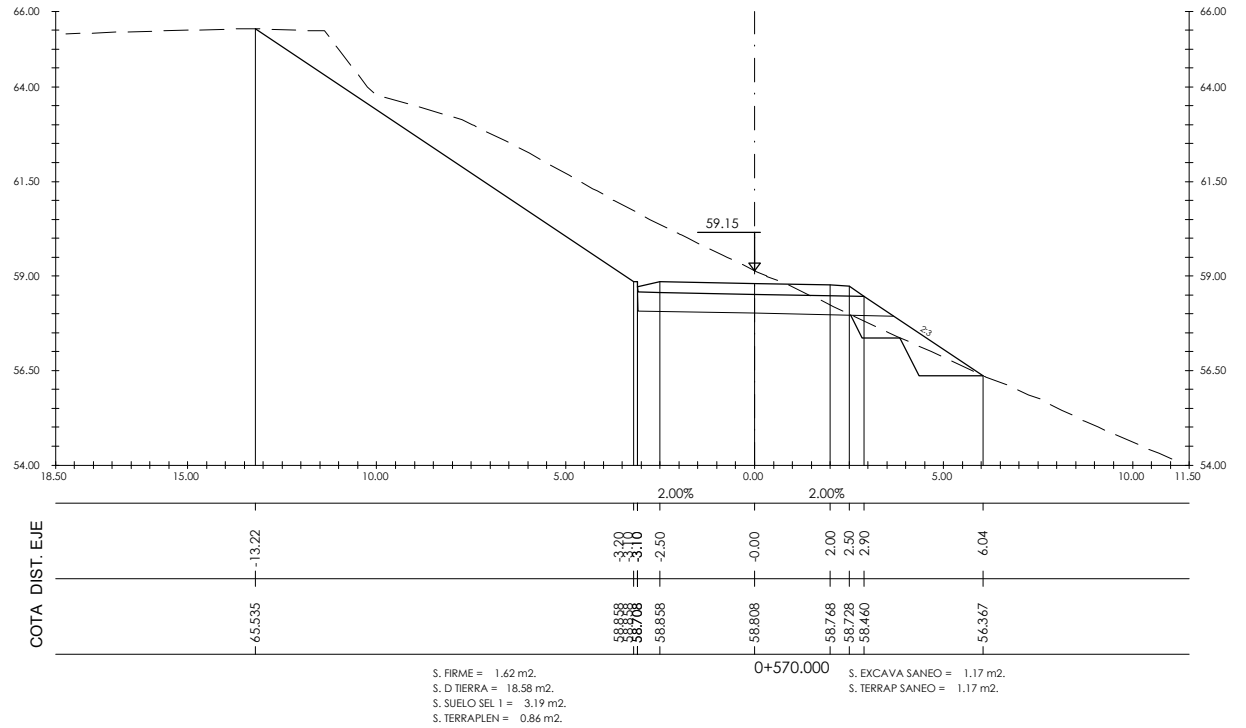
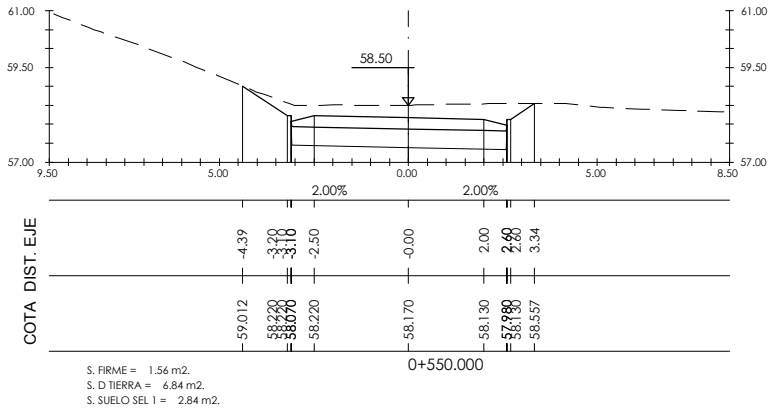


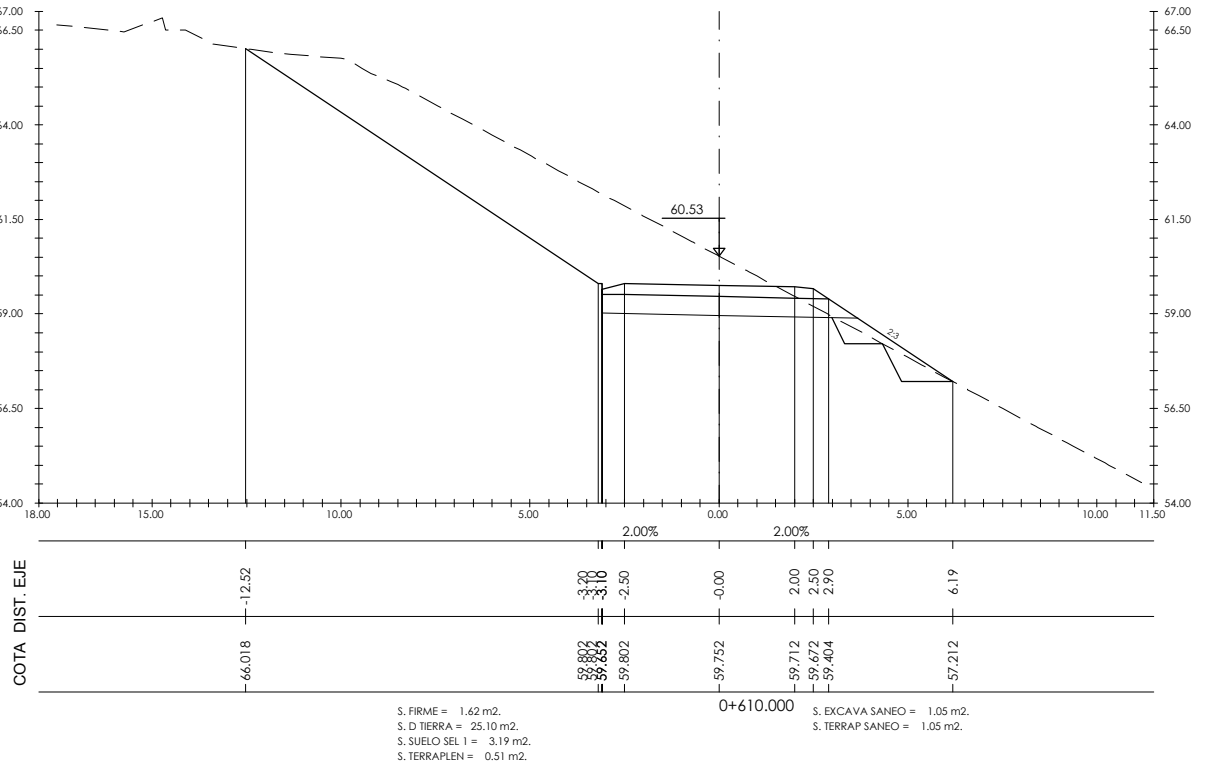
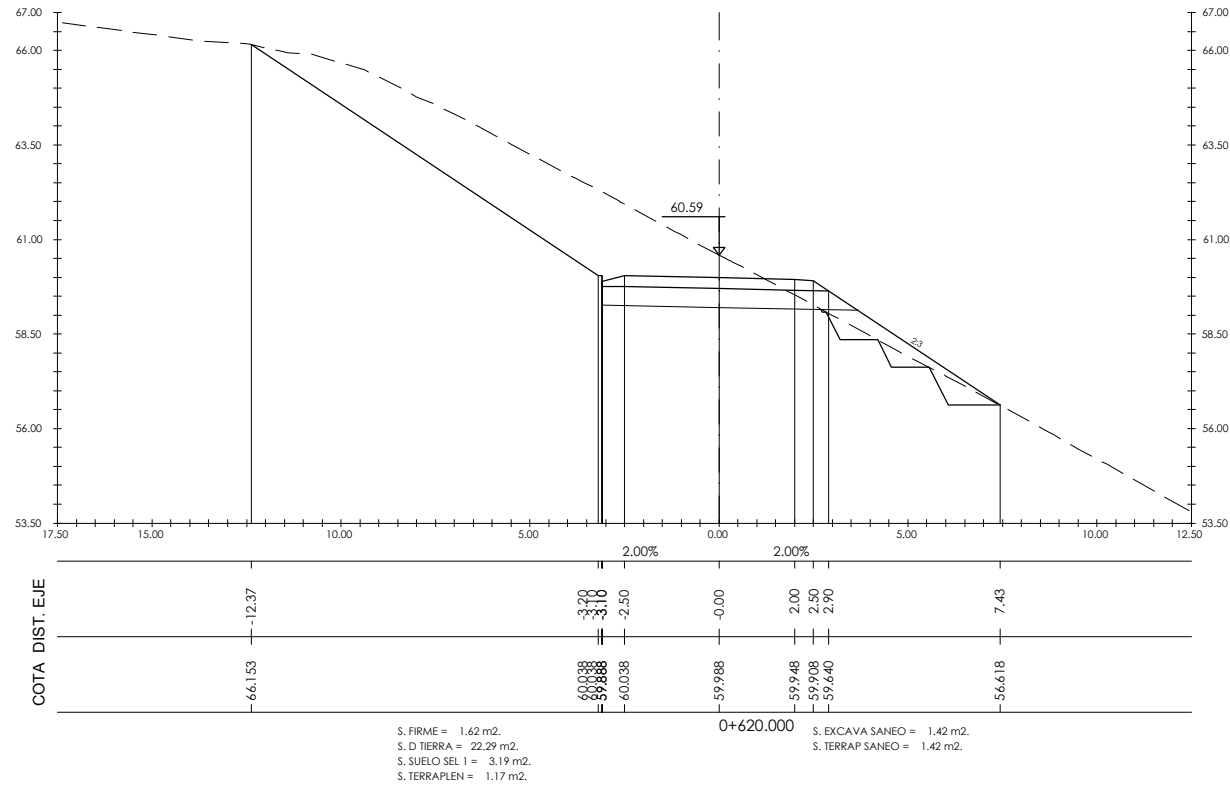
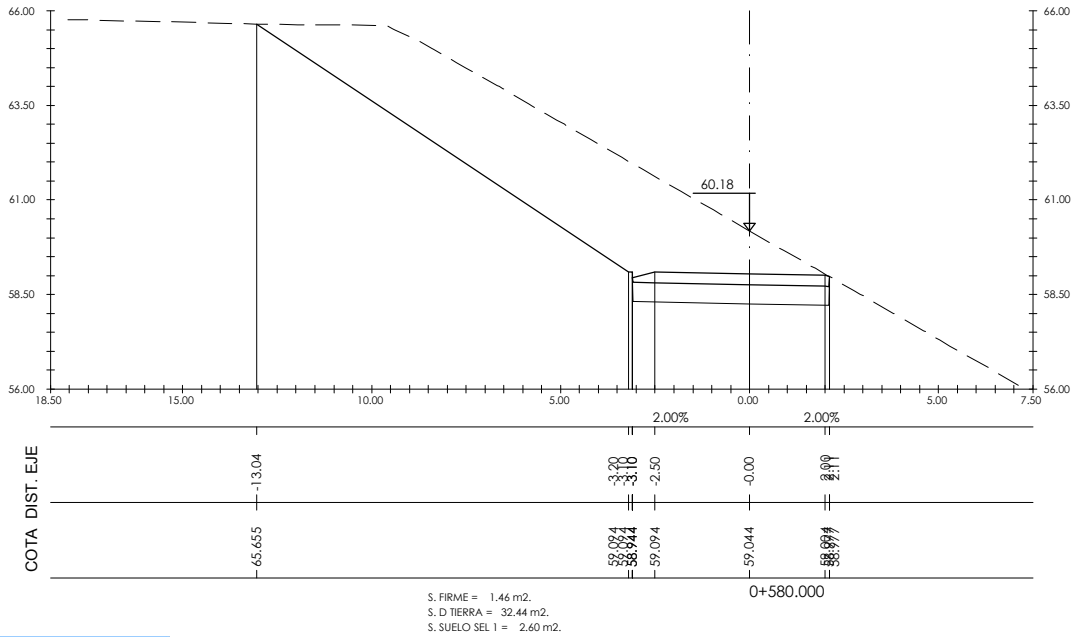
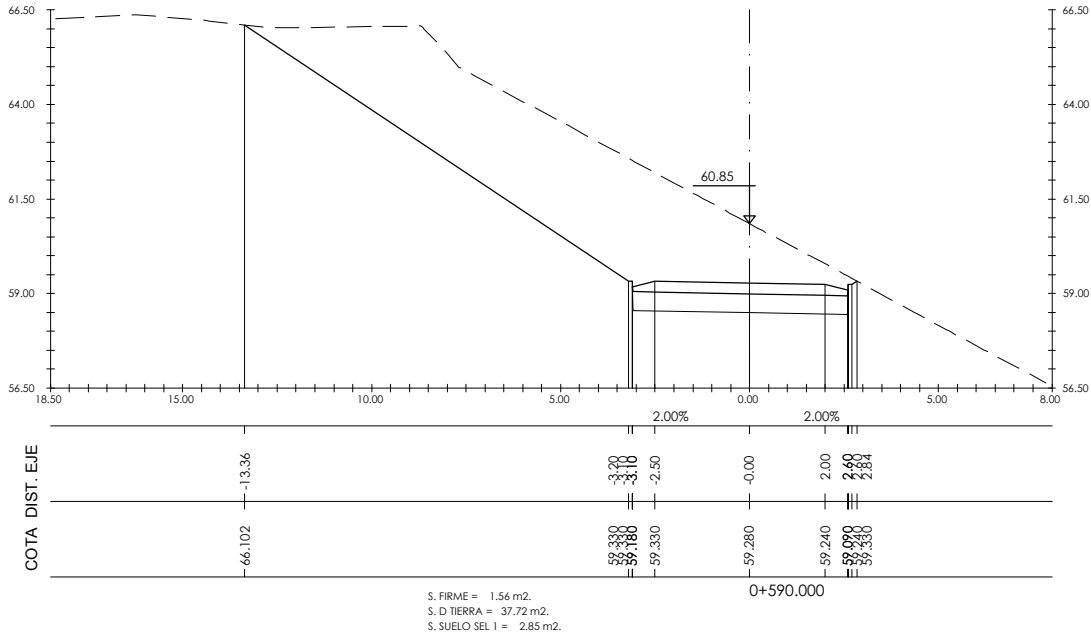
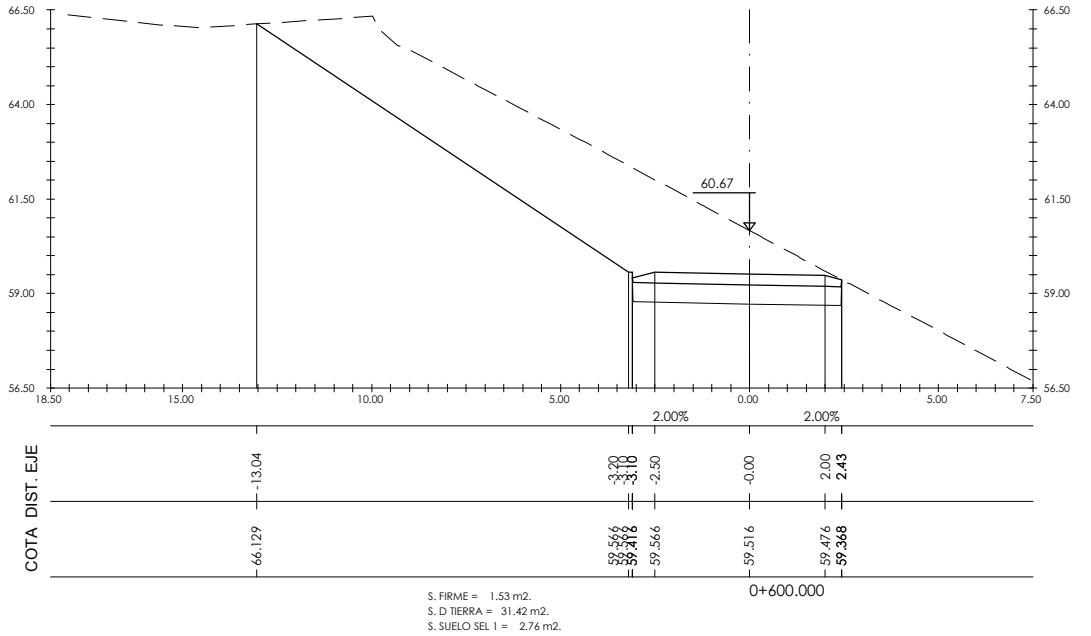


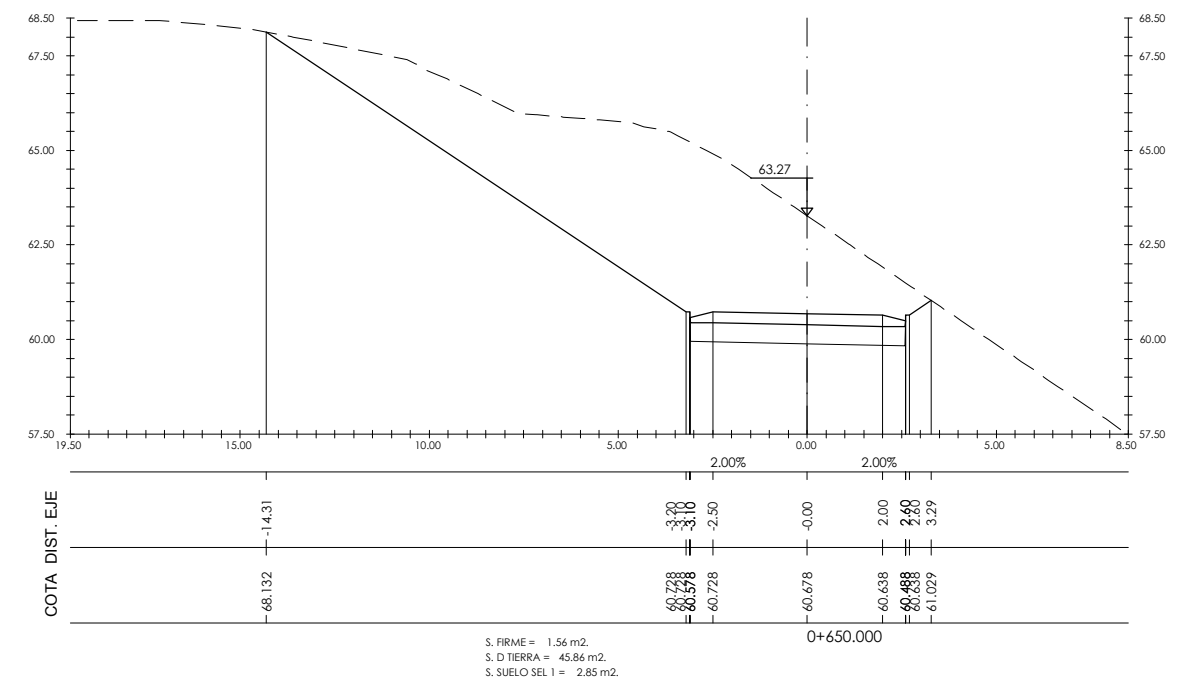
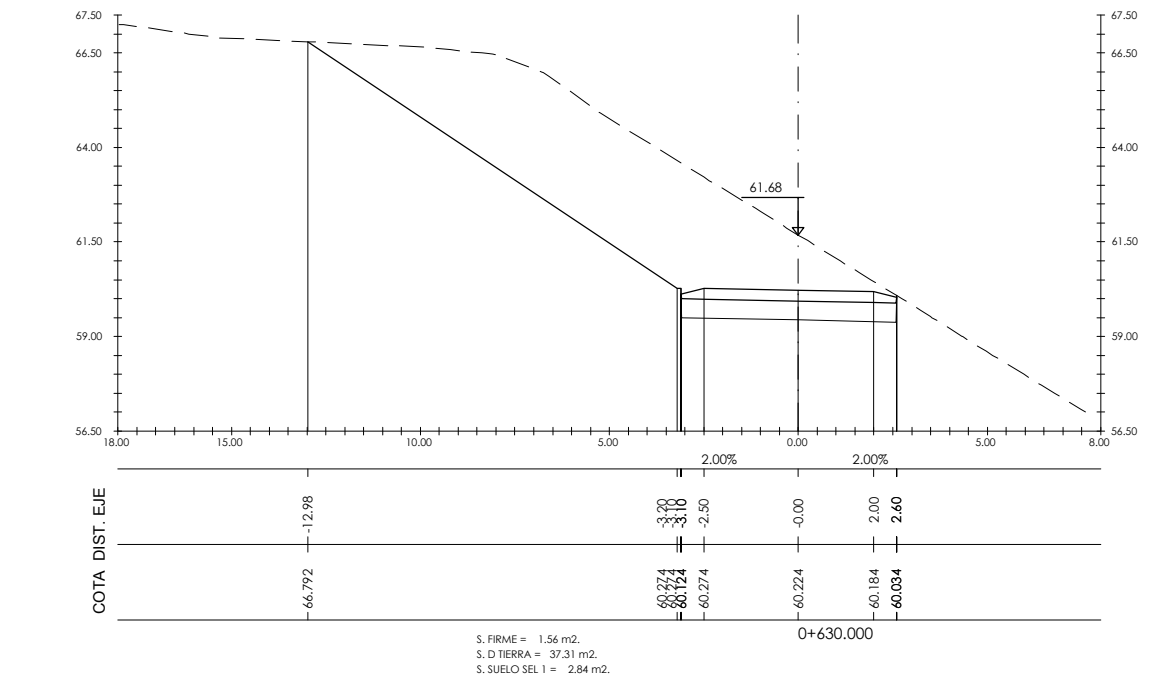




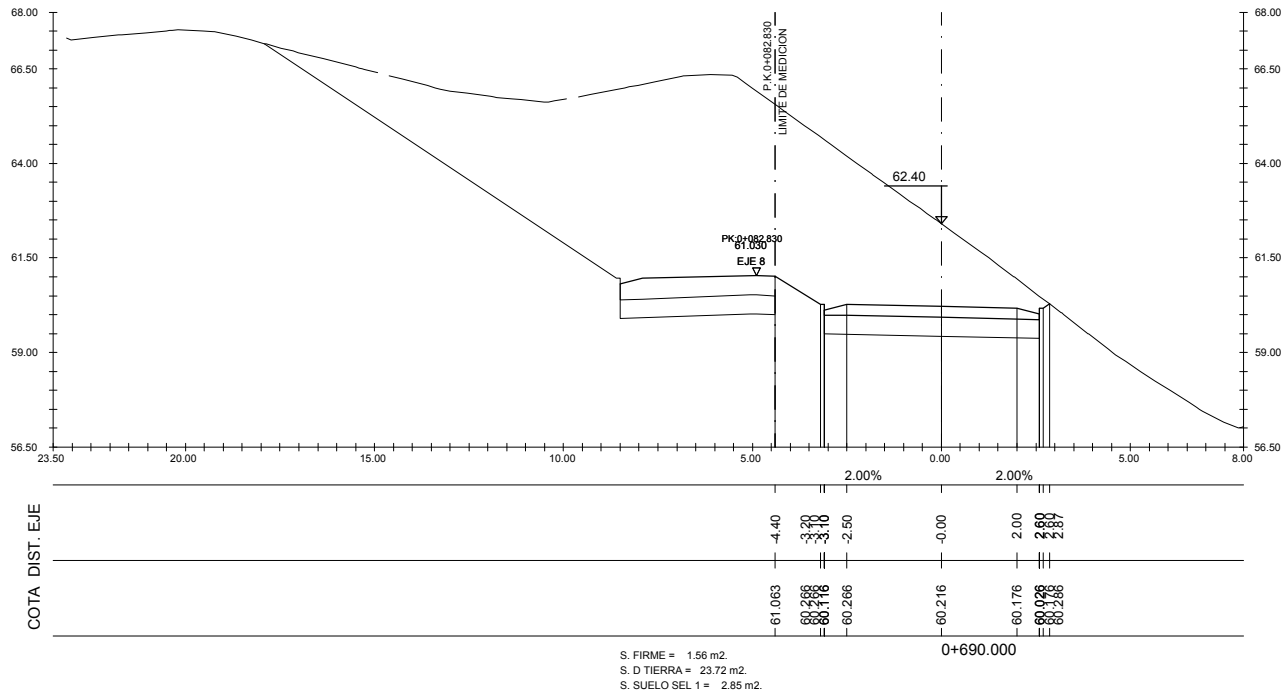
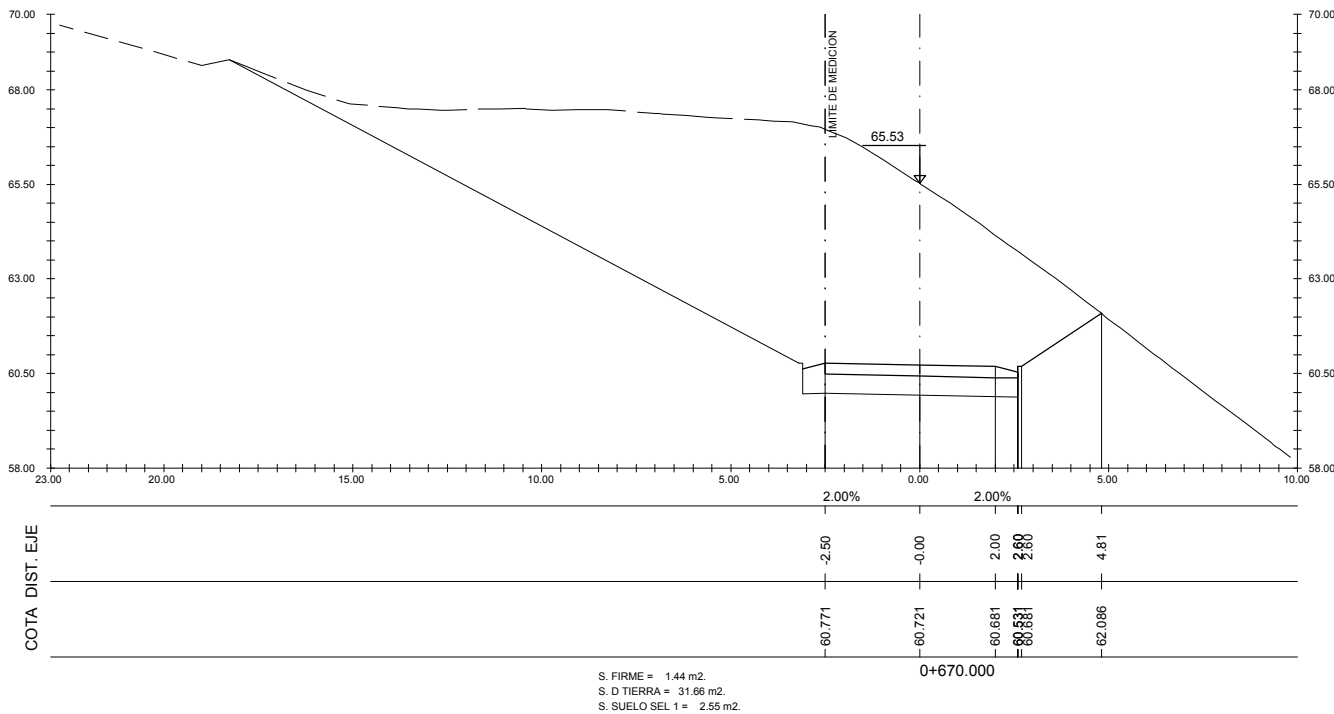
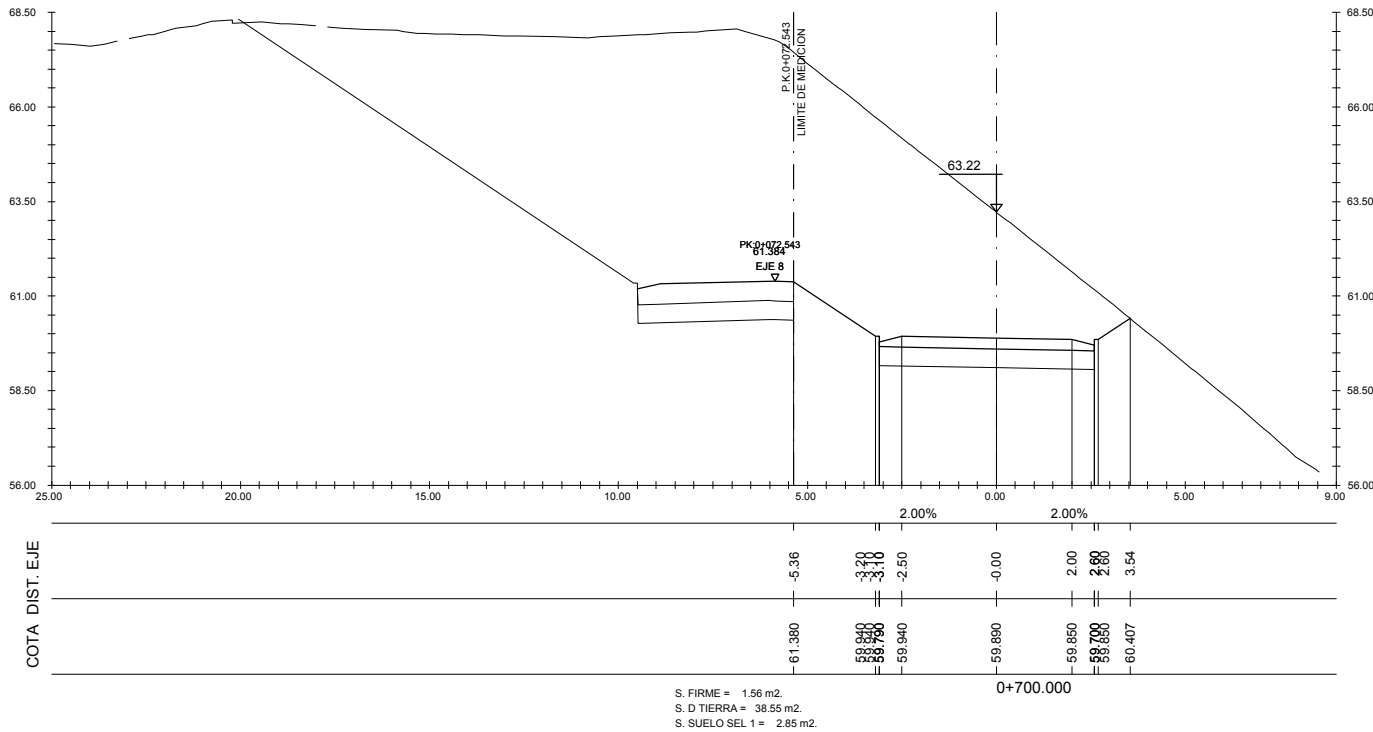
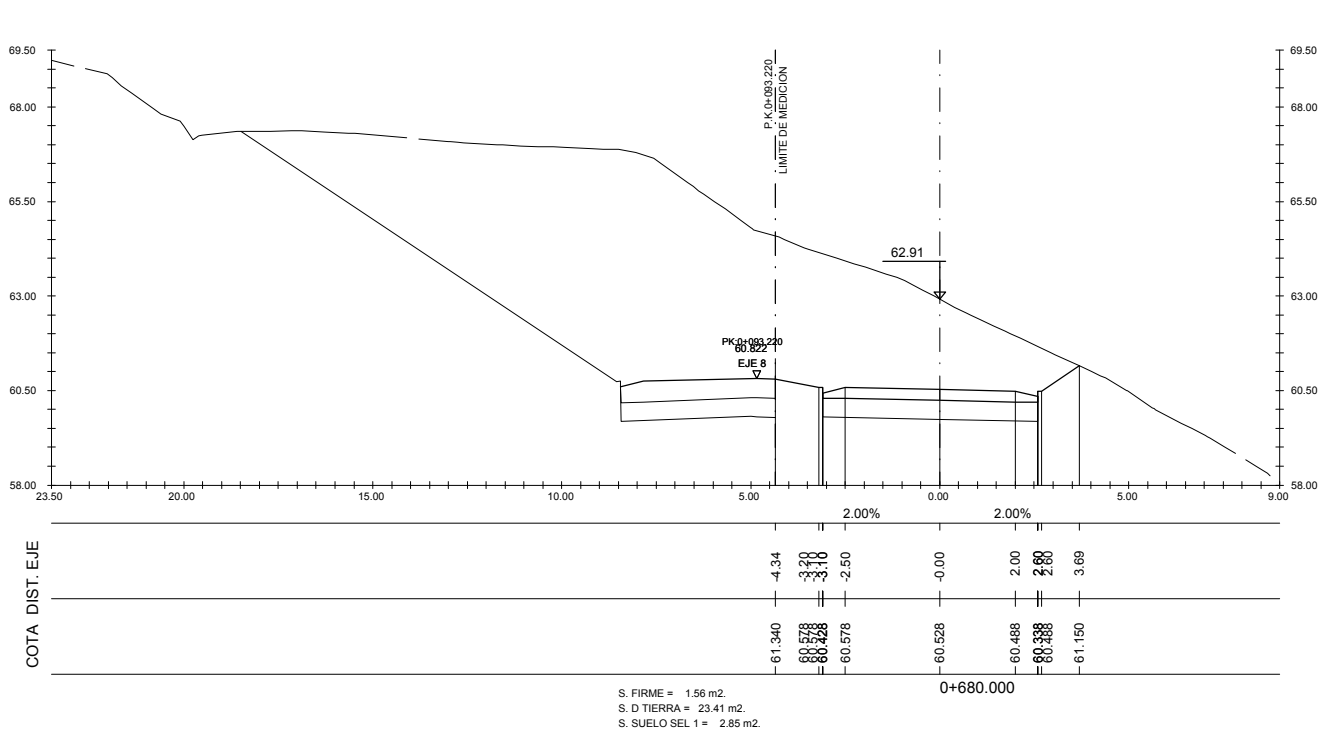


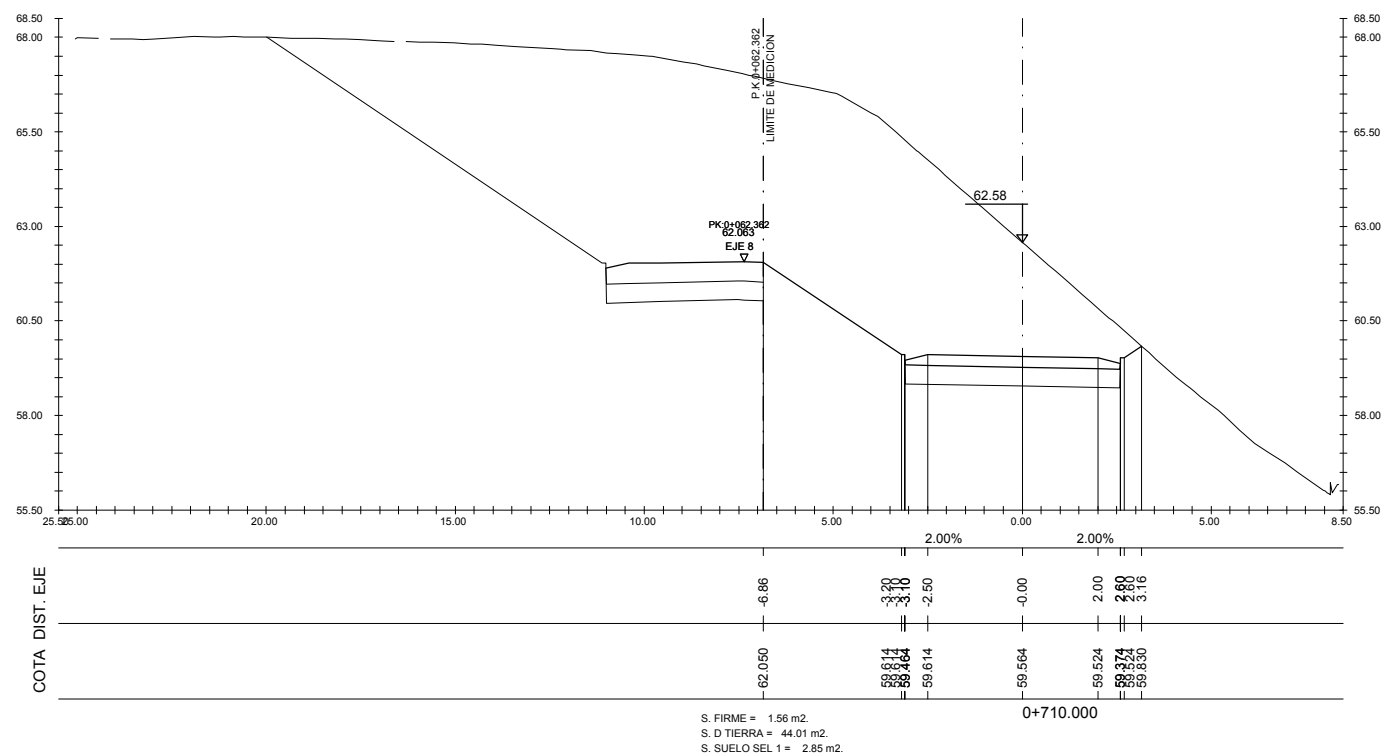
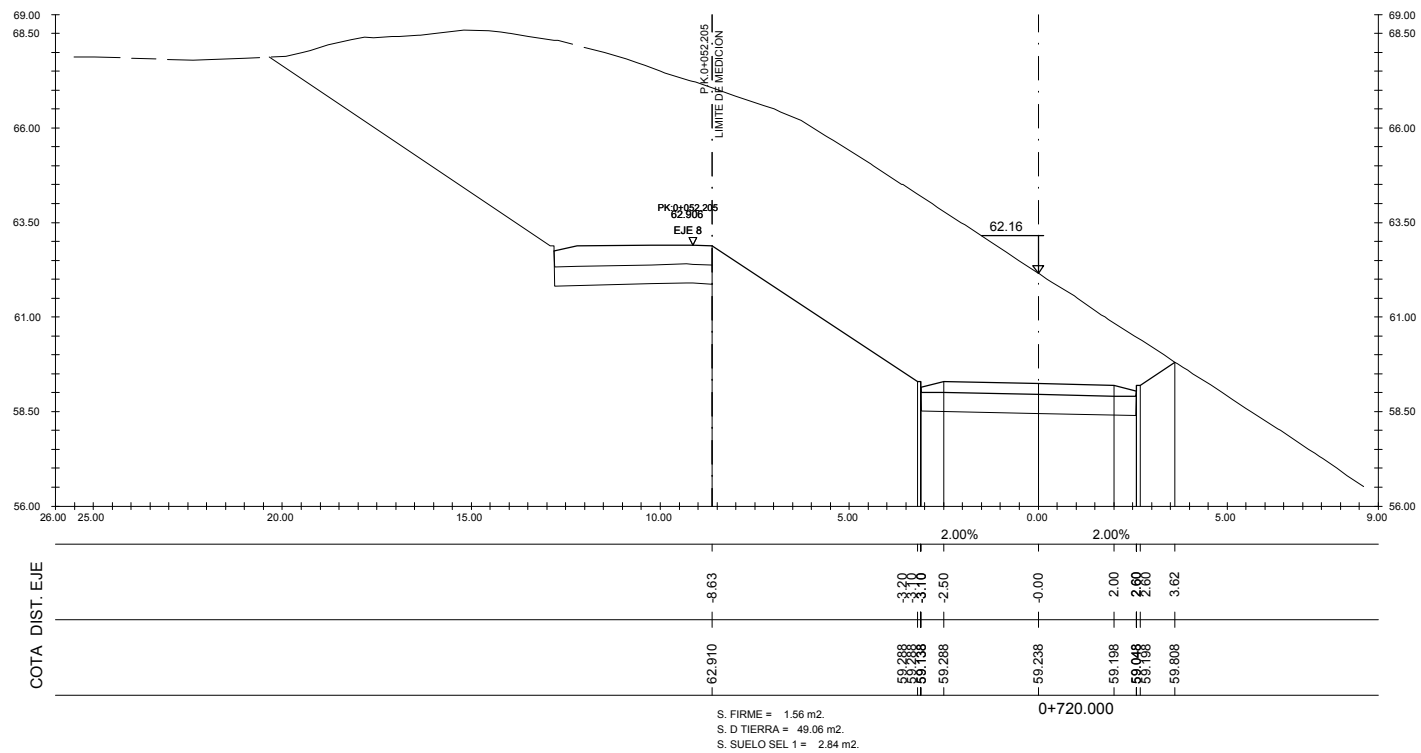


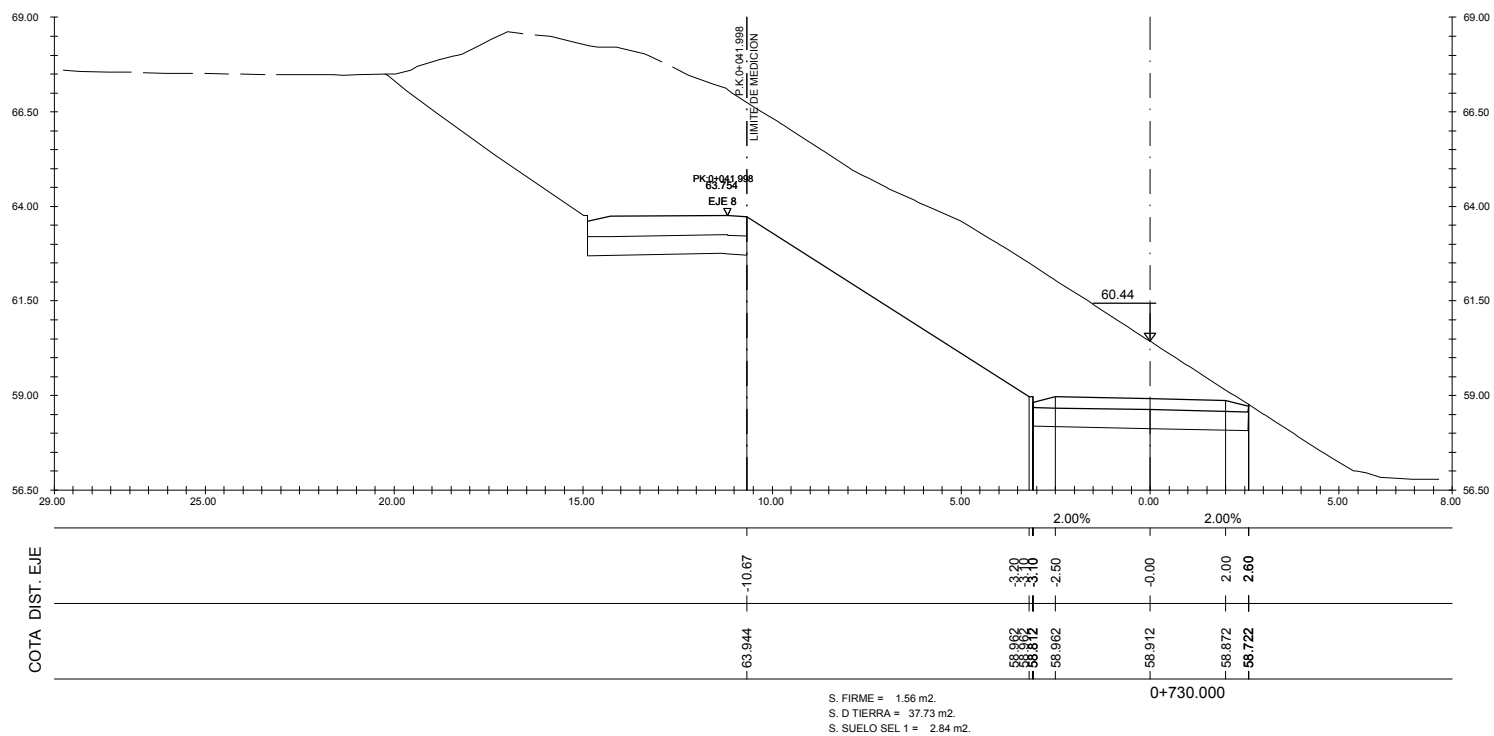
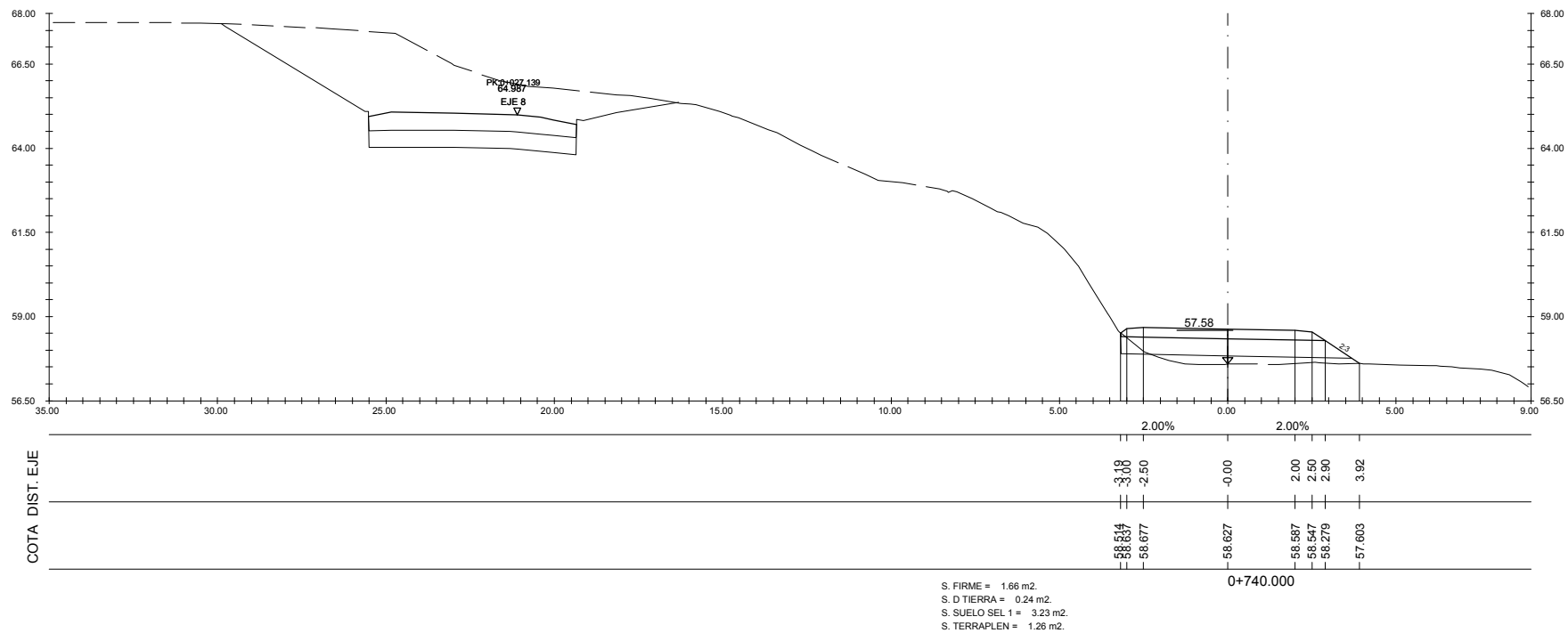


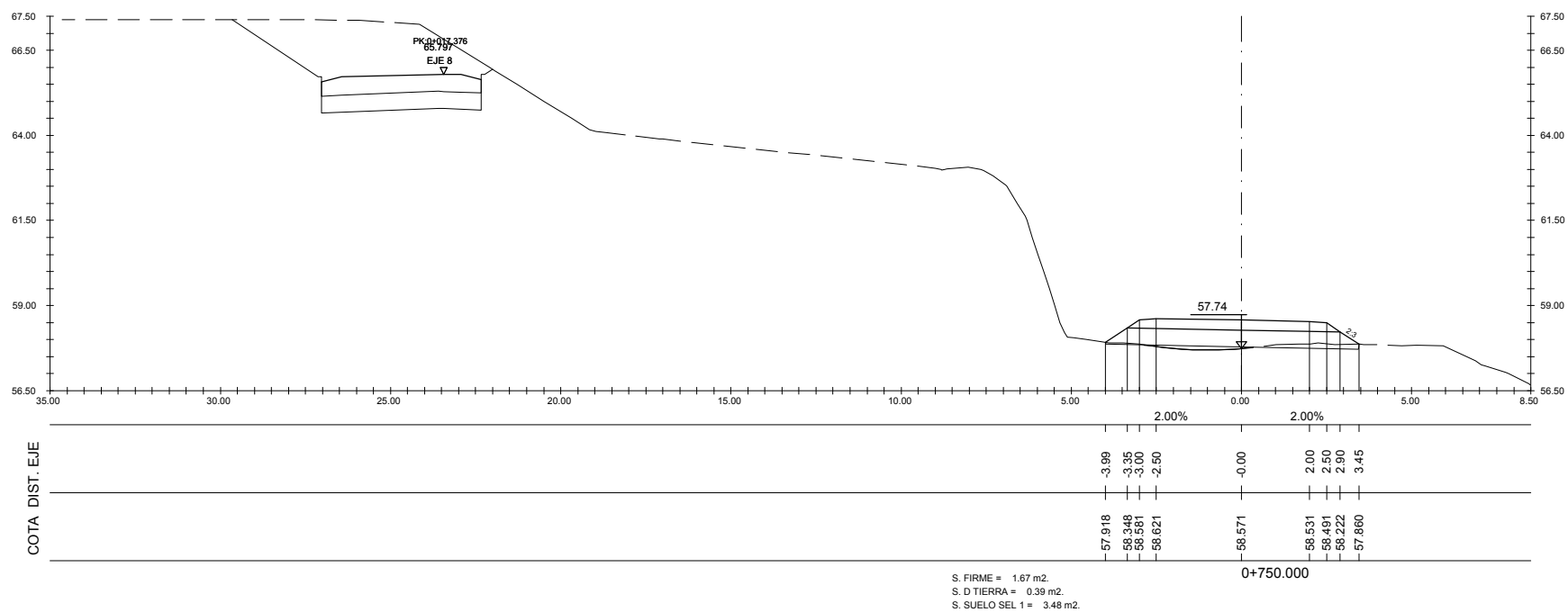


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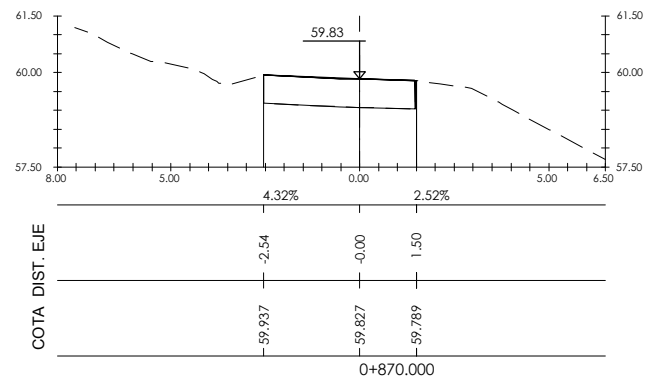
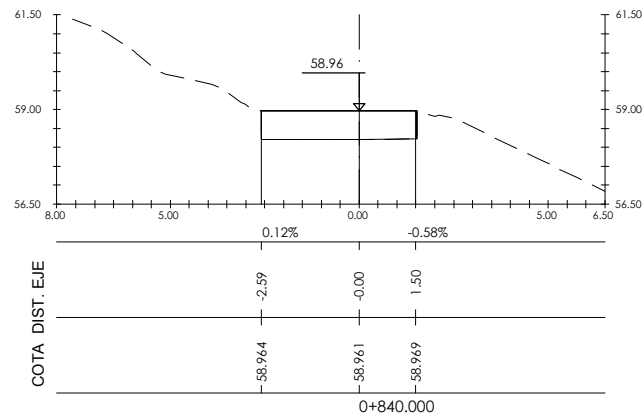
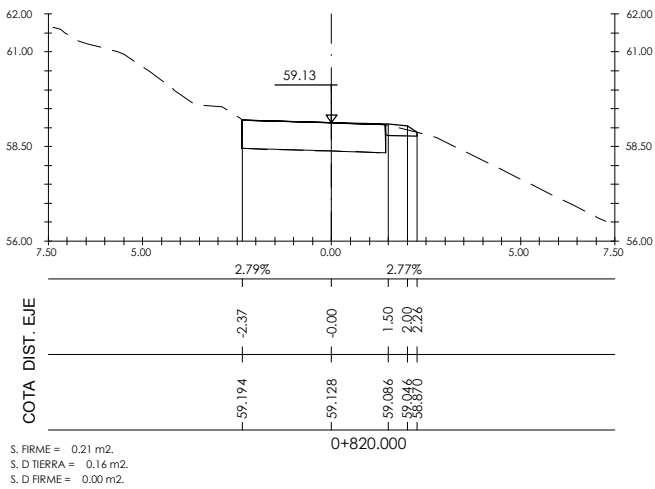
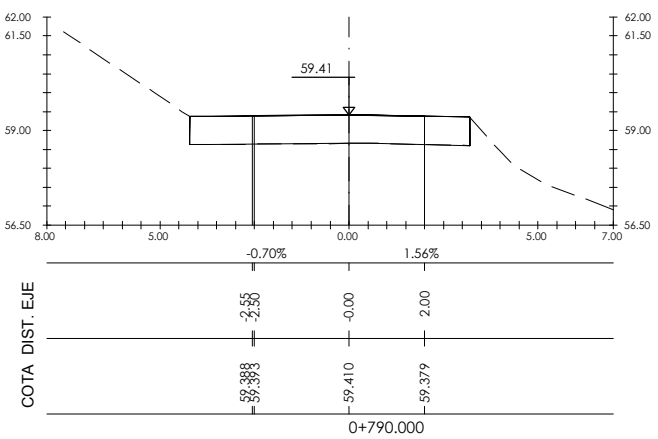
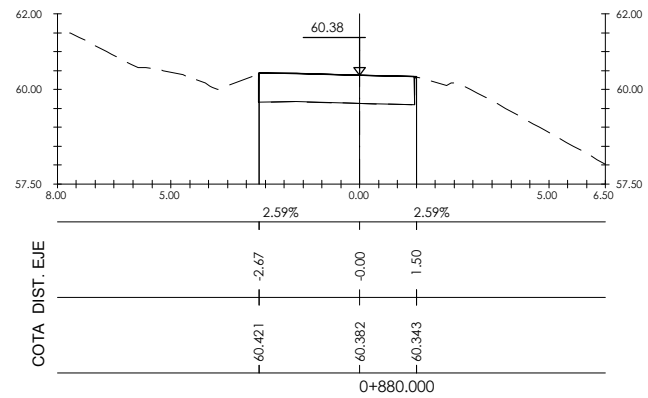
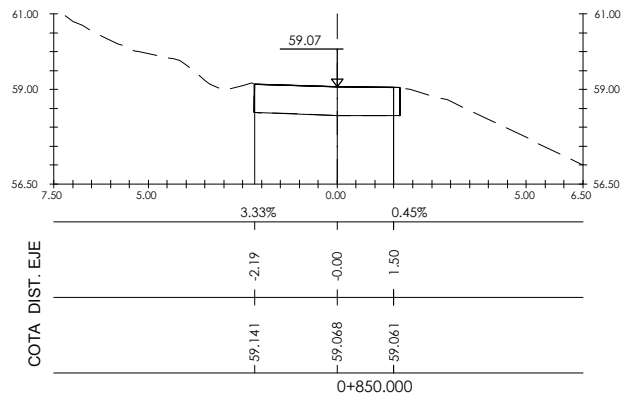
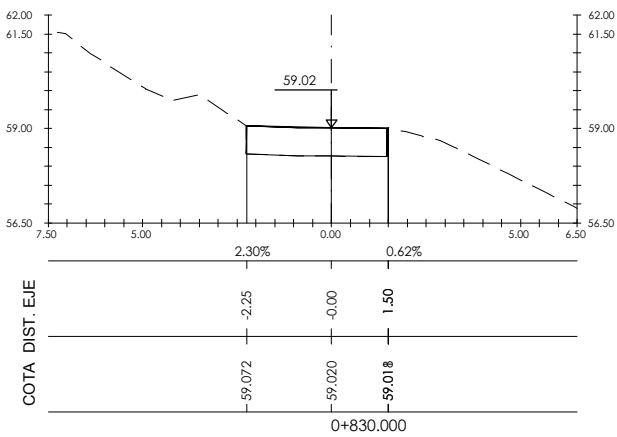
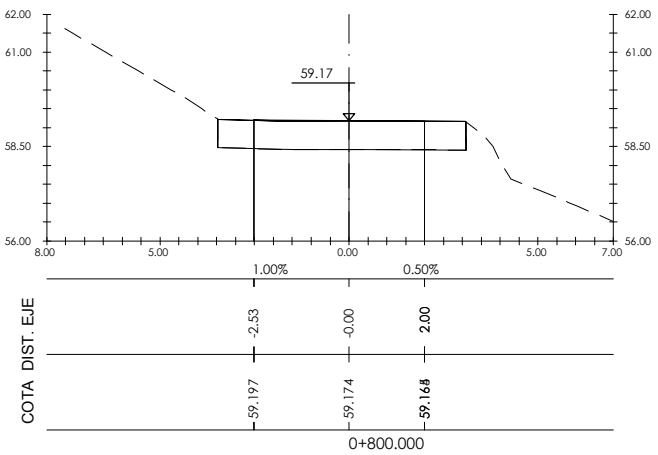
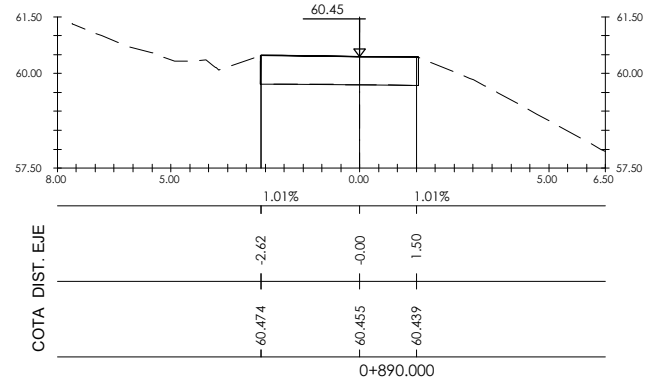
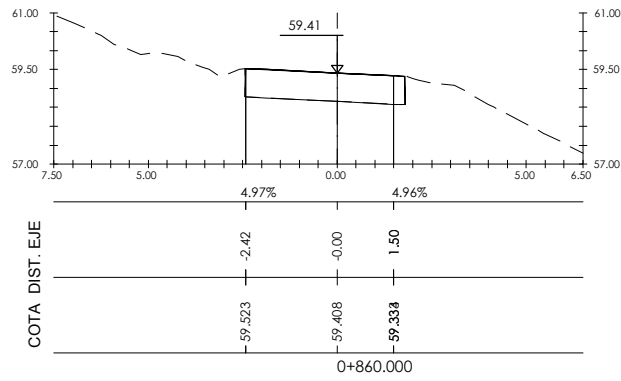
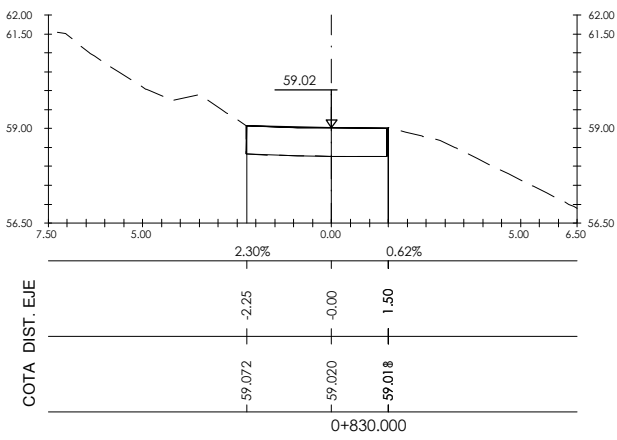
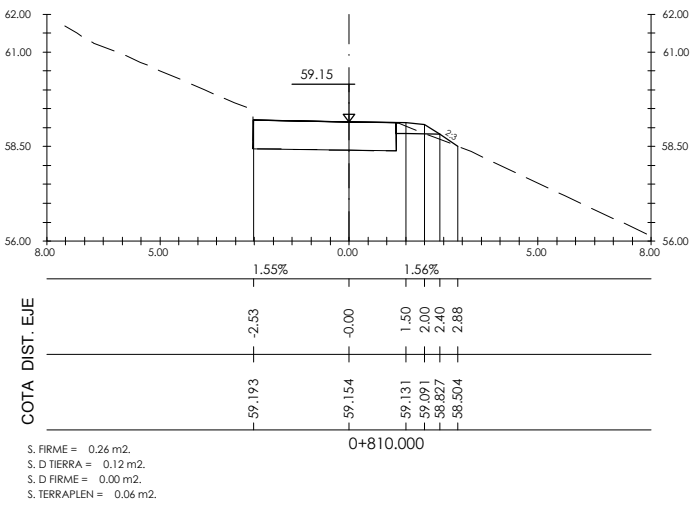




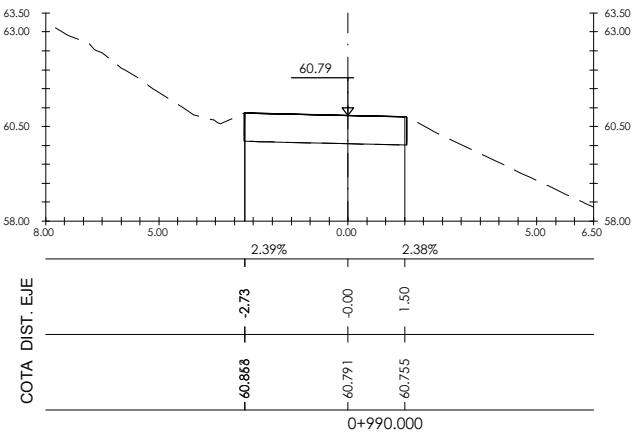
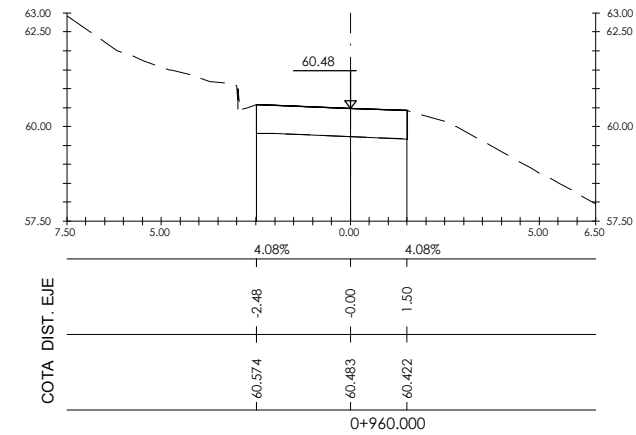
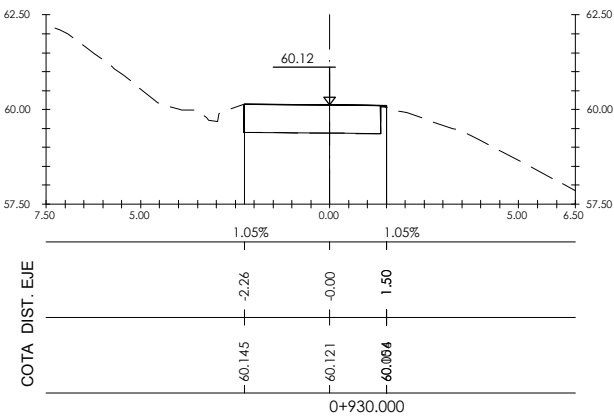
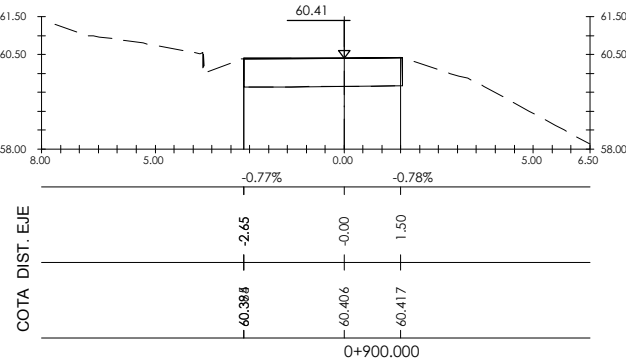
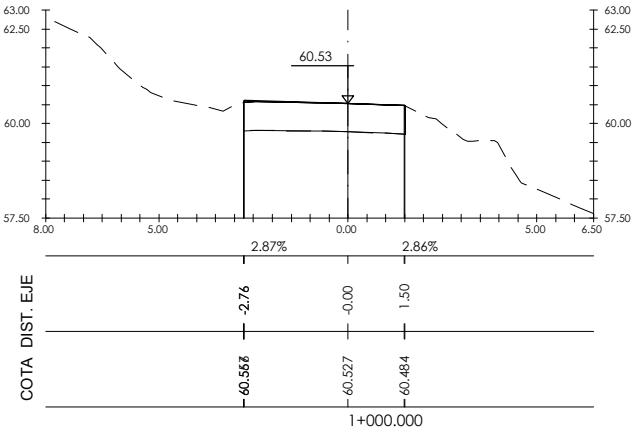
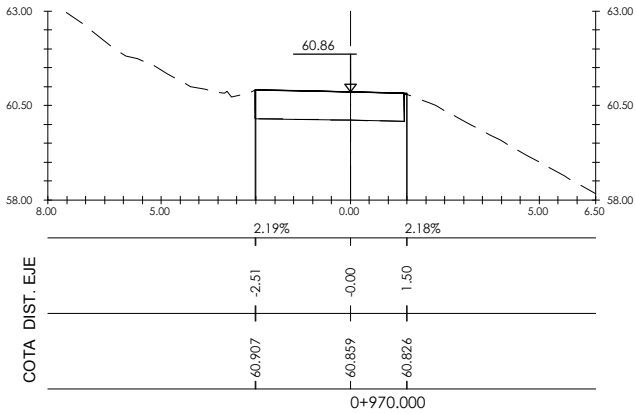
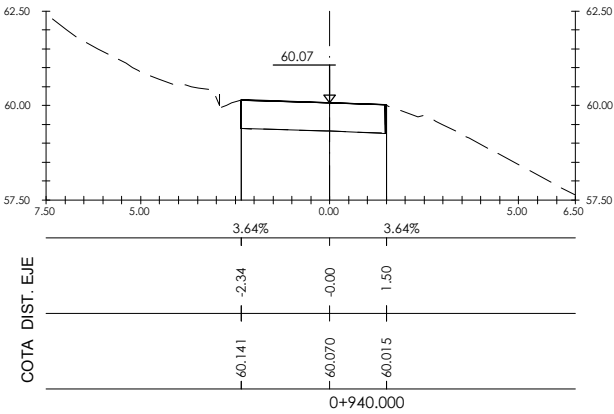
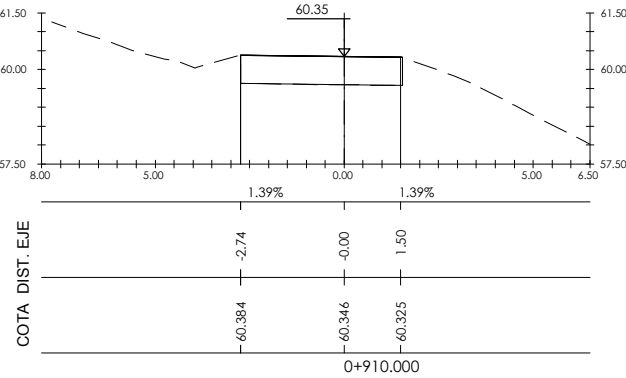
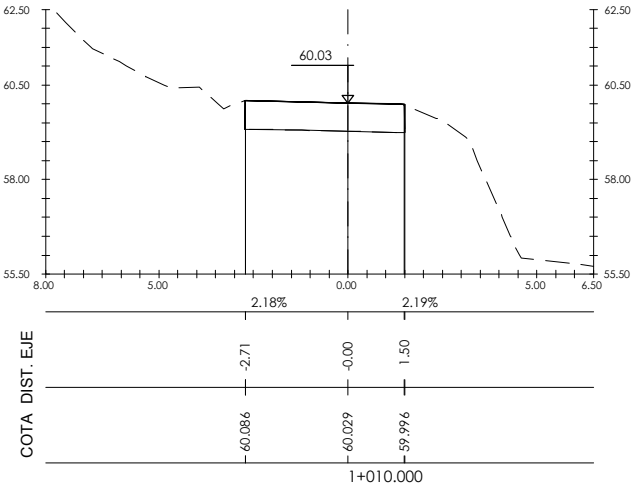
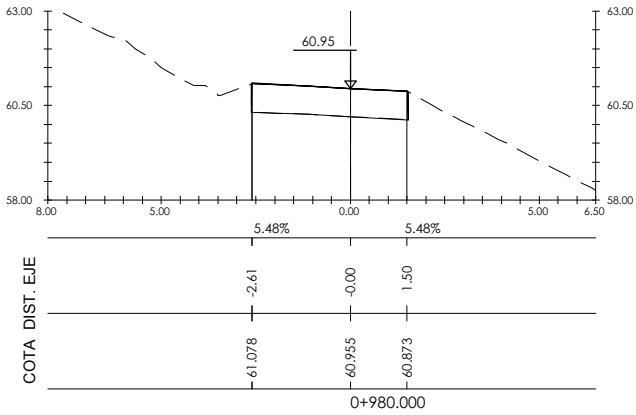
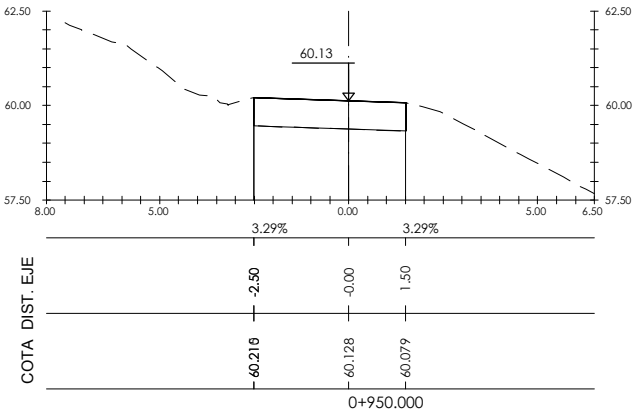
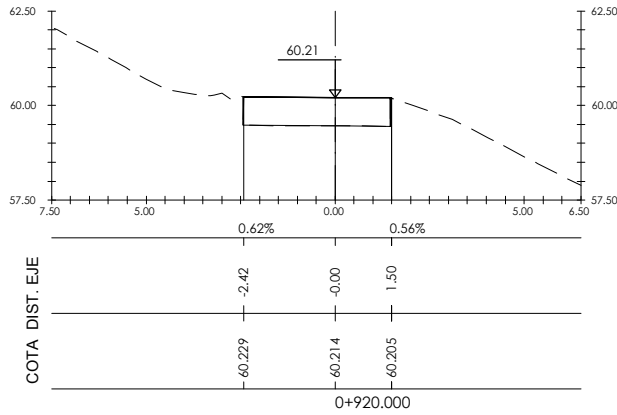




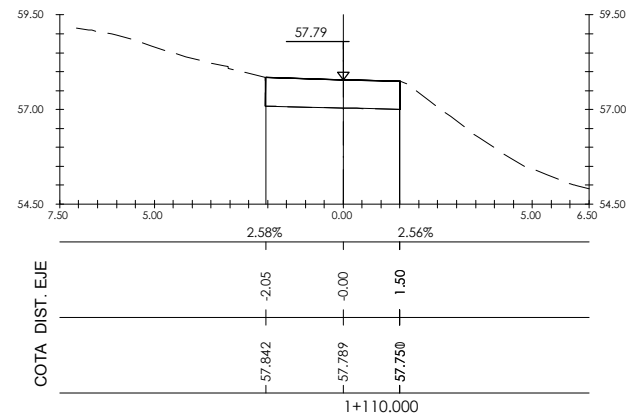
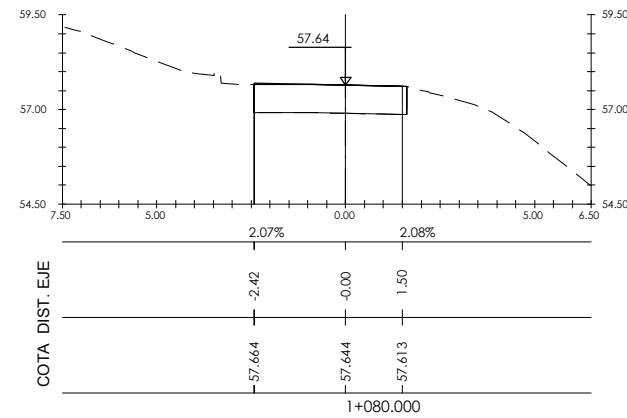
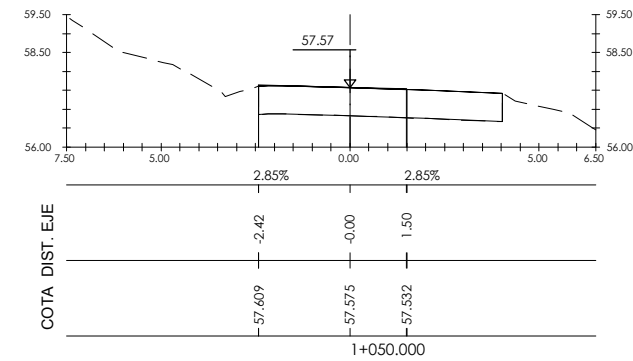
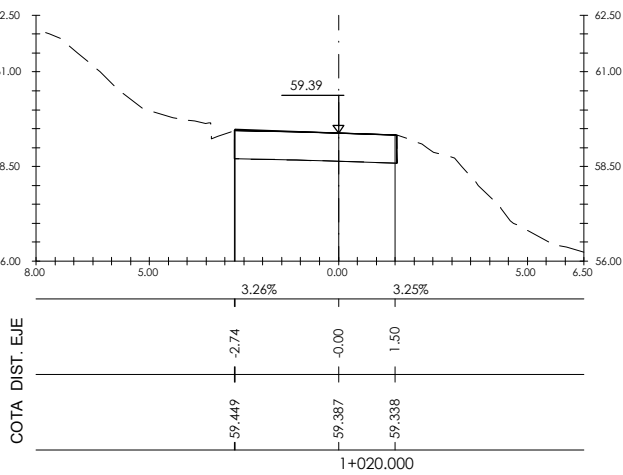
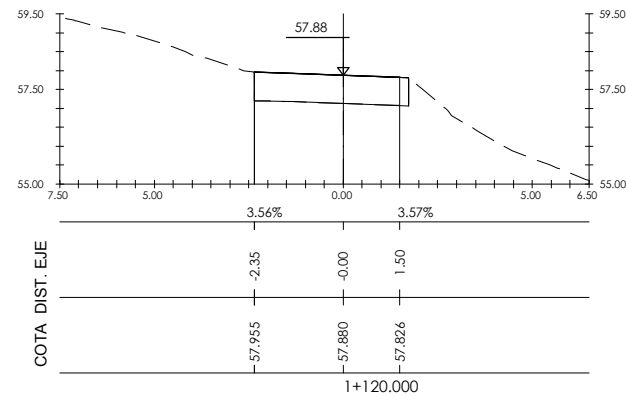
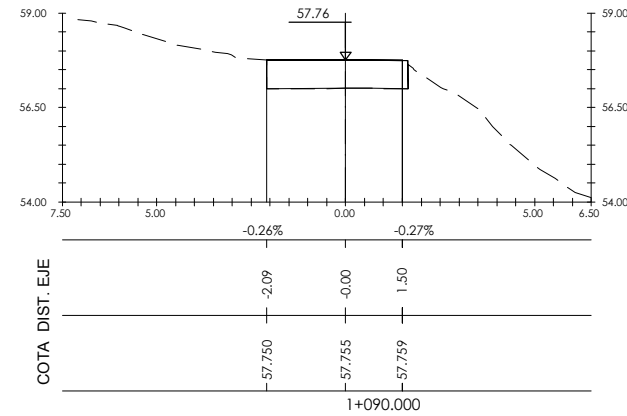
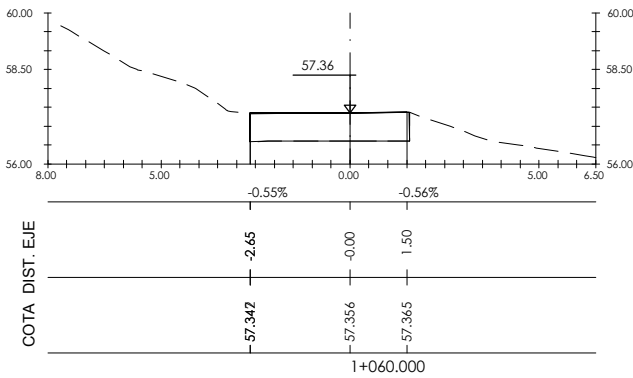
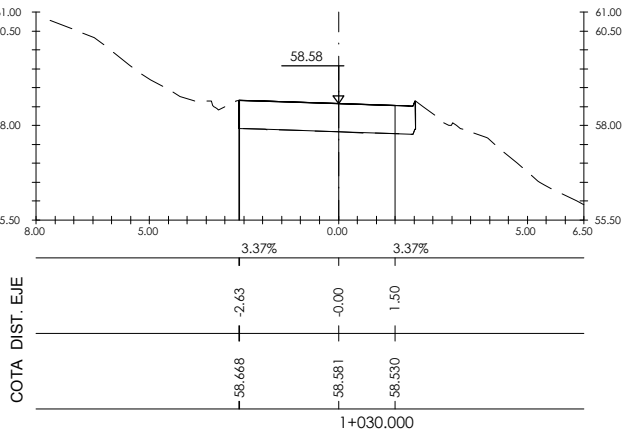
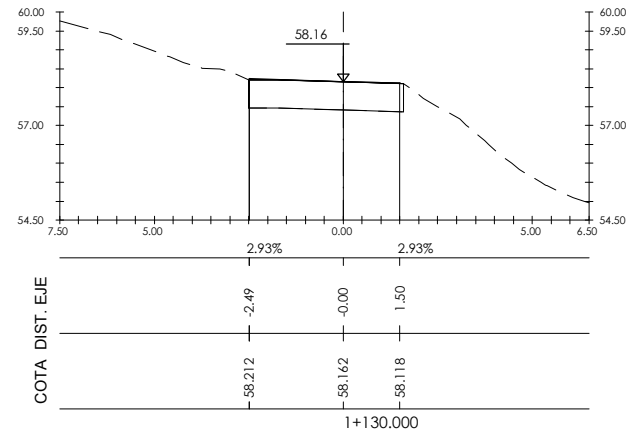
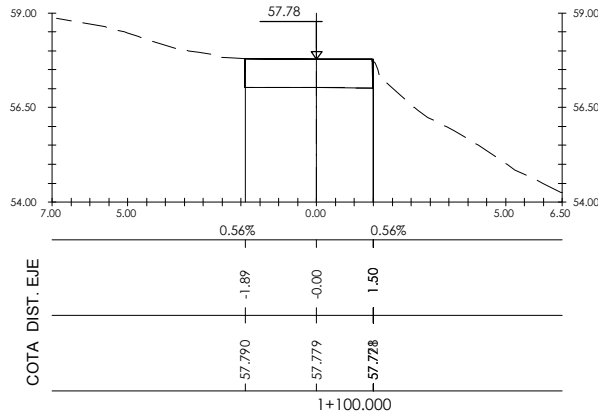
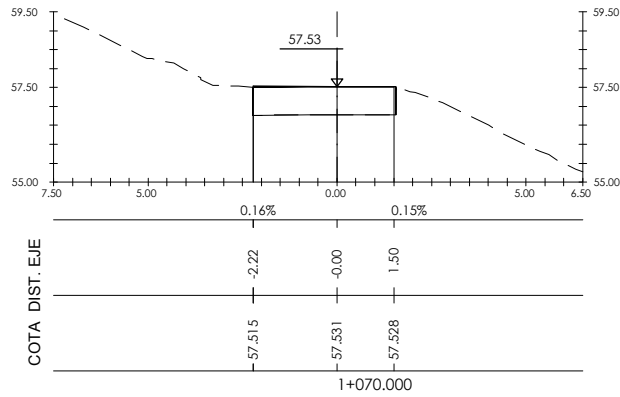
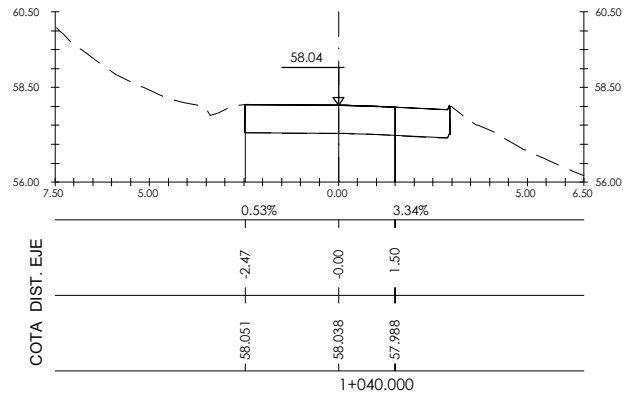
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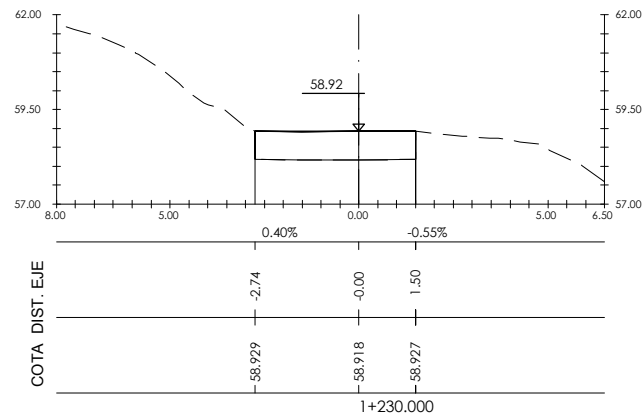
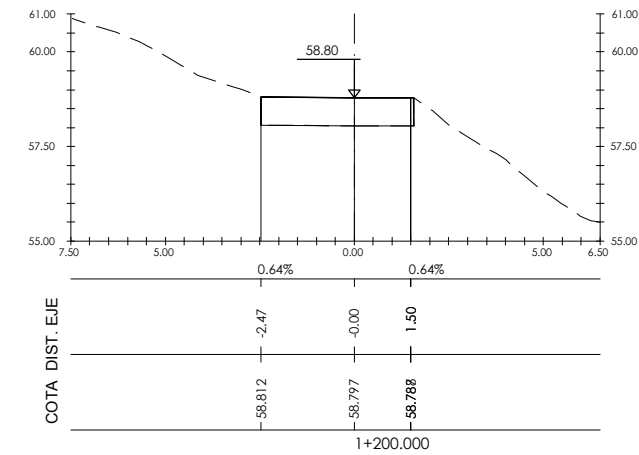
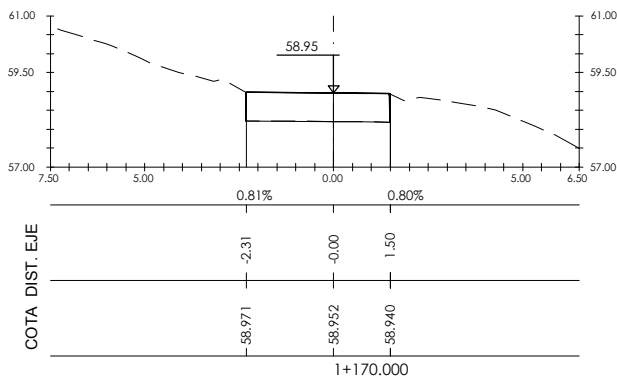
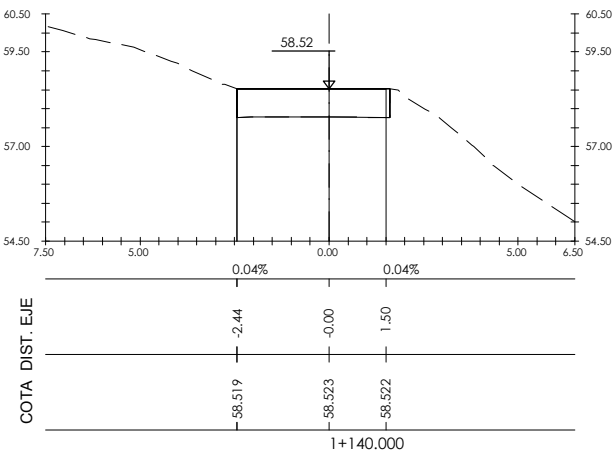
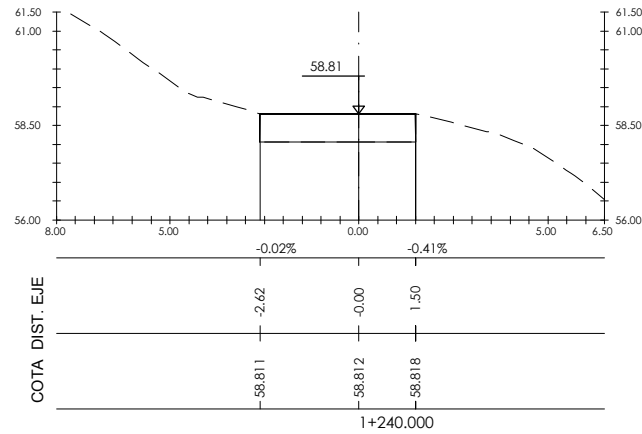
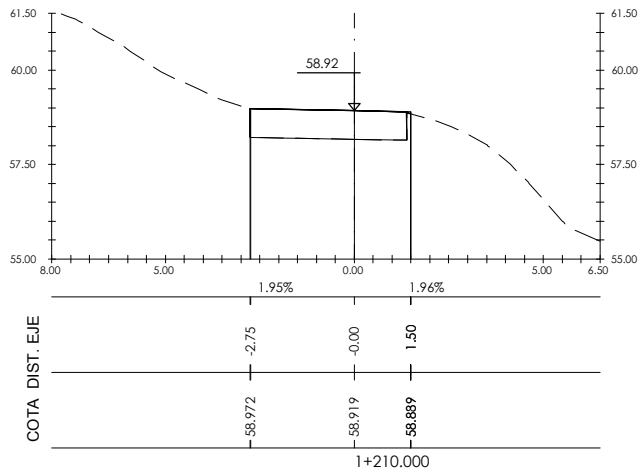
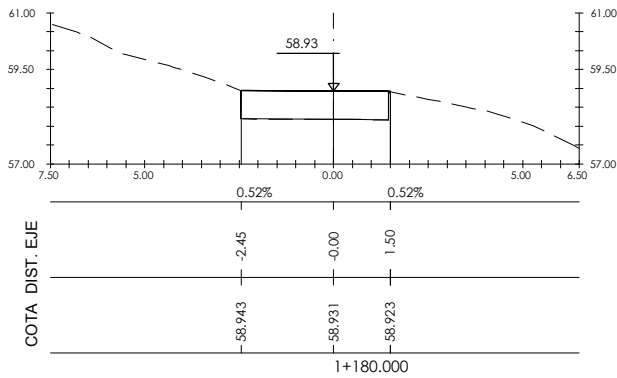
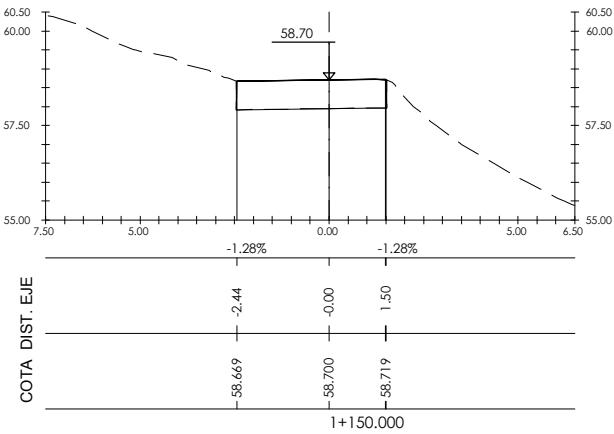
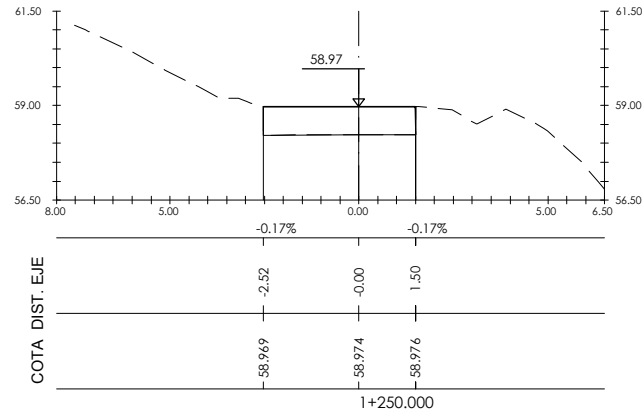
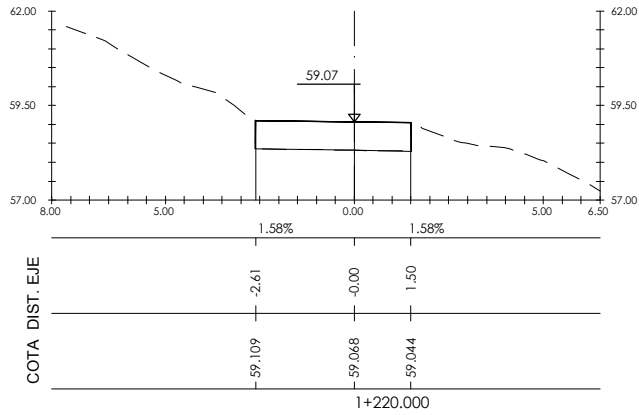
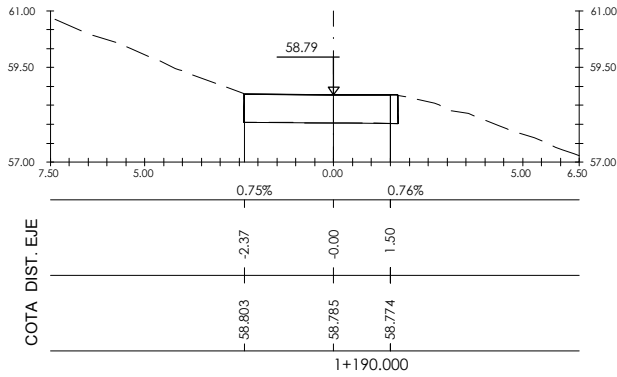
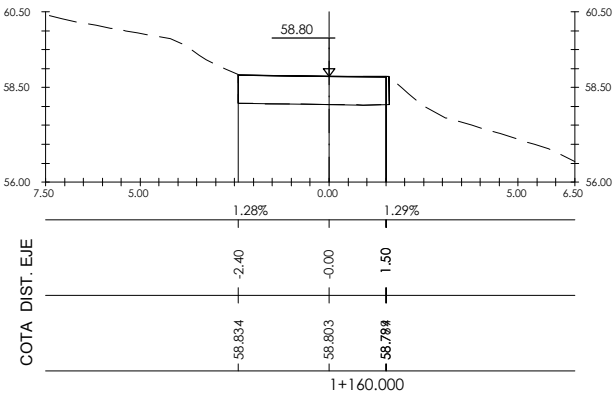
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Eskualde Garapenerako Europar Funtsa - EGEF
Fondo Europeo de Desarrollo Regional - FEDER



ekonomia eta lurralde garapena
sustatzeko saila
departamento de desarrollo
económico y territorial

Plangintza Zerbitzua
Servicio de Planificación

aholkularia
consultor



proiektu izenburua / título del proyecto:

Proyecto de construcción de una senda ciclable entre
el polígono Agirre y Martiartu (T.M. de Arrigorriaga)

gakoia
clave

data
fecha

Junio 2019

izendura / designación

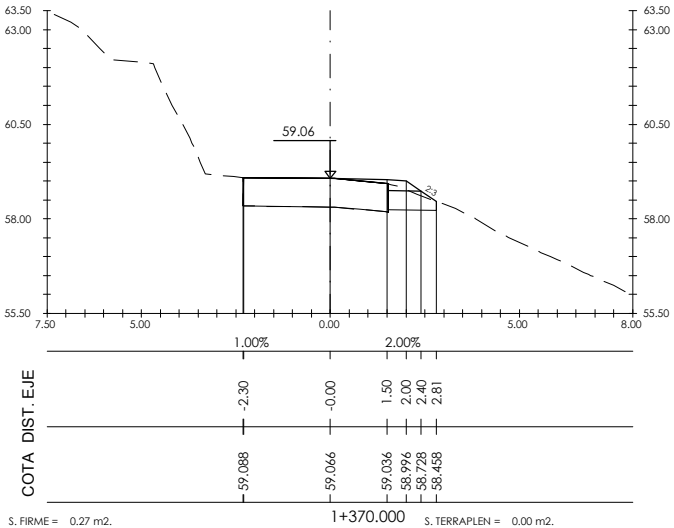
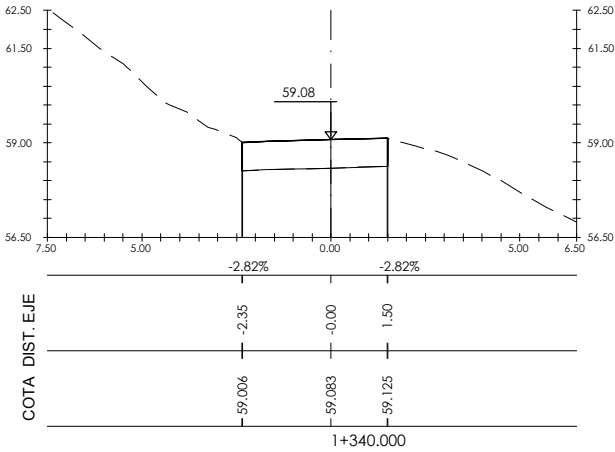
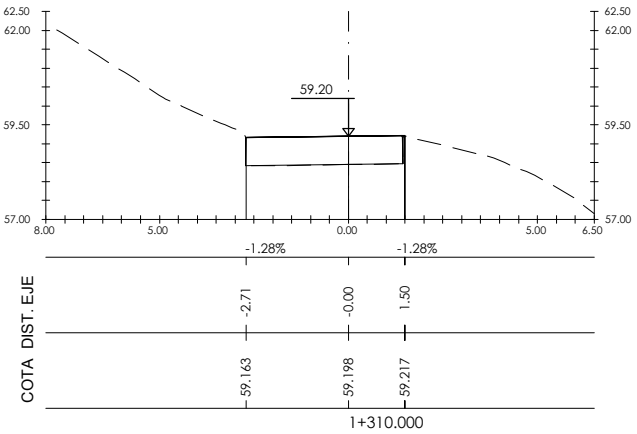
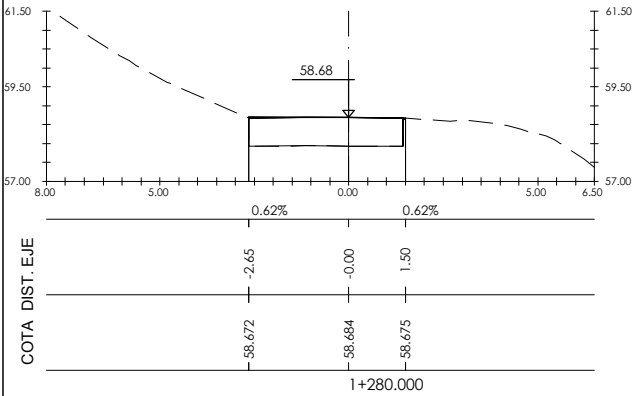
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hoja 17

eskala (k) / escala (s)
1/100
(escala original en a1)

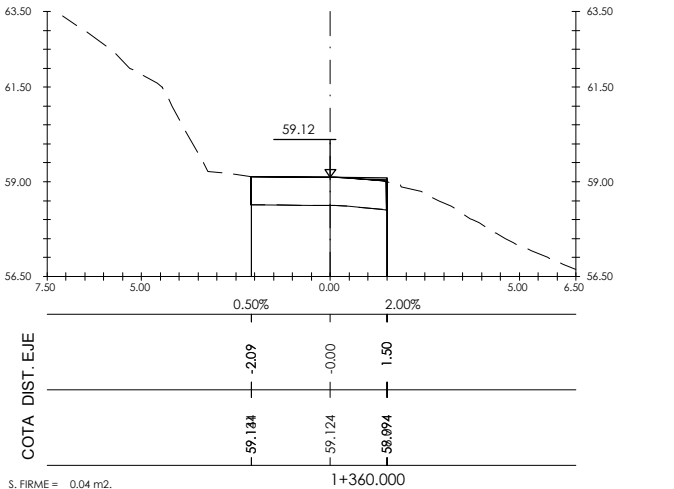
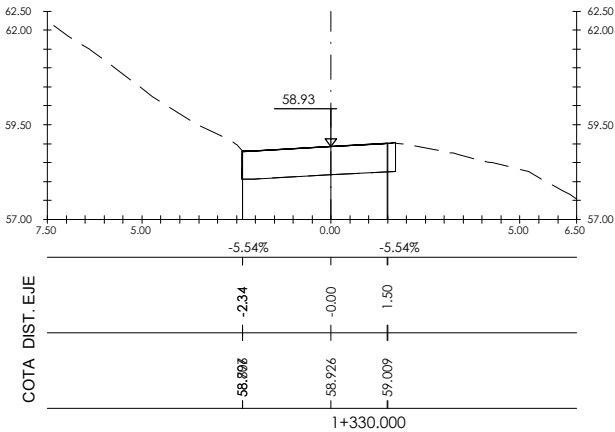
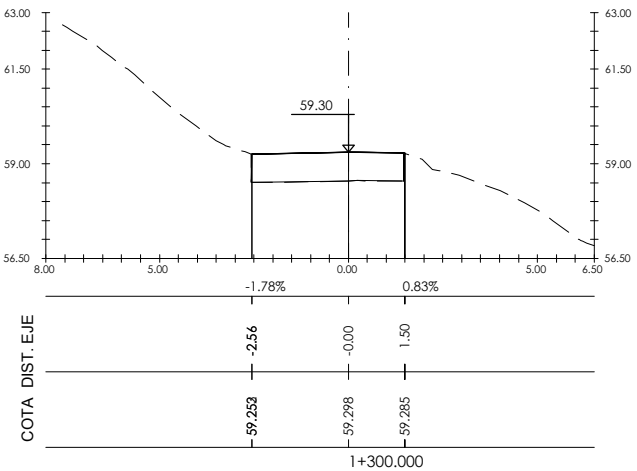
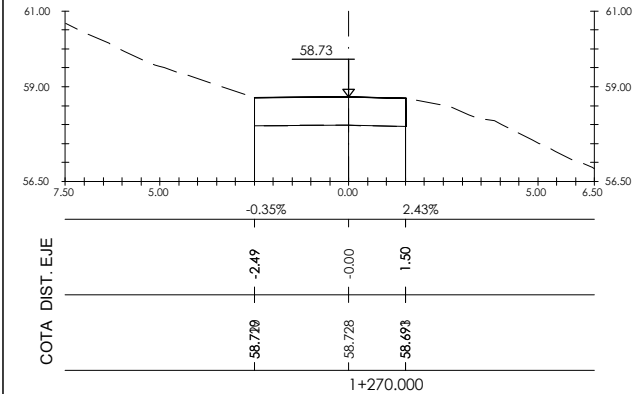
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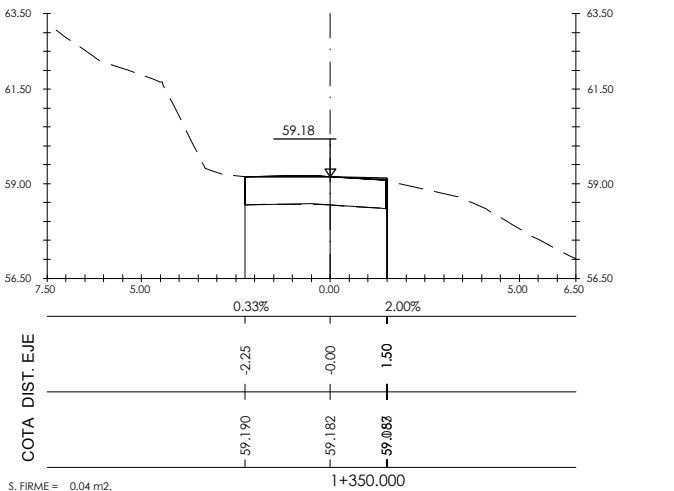
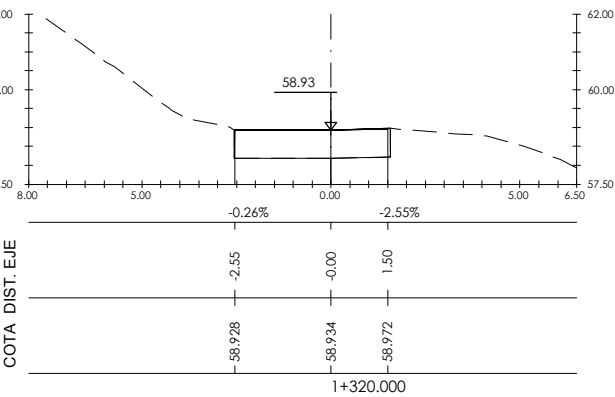
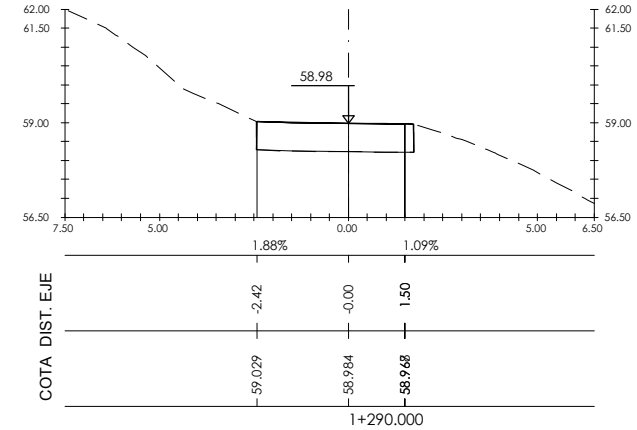
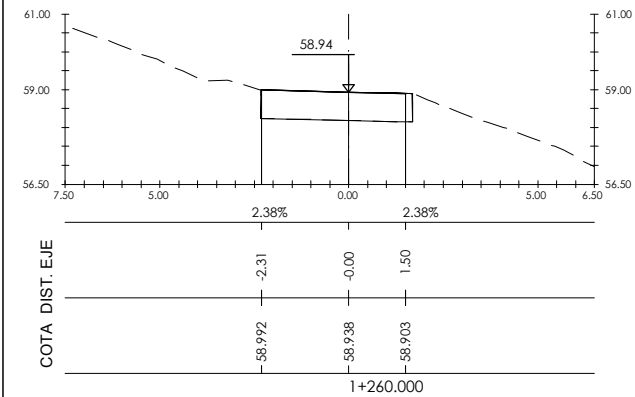
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hoja 17 de 21



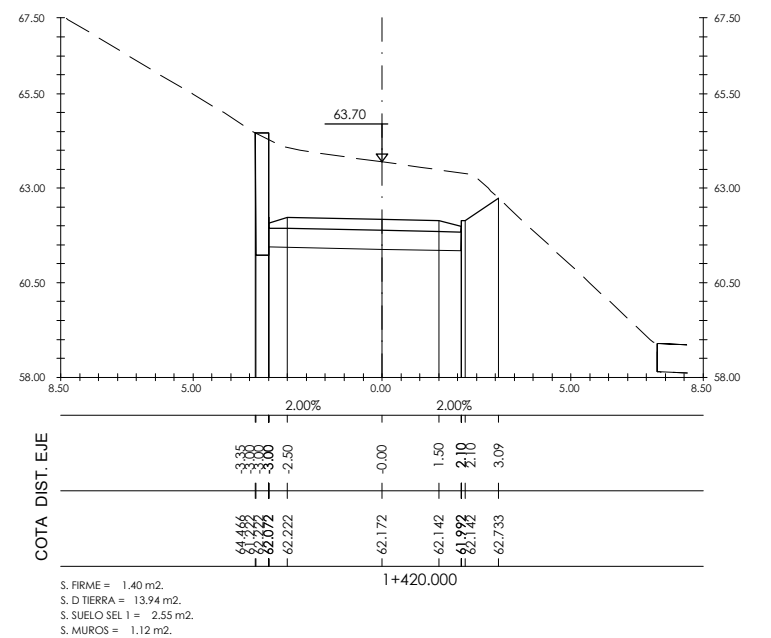
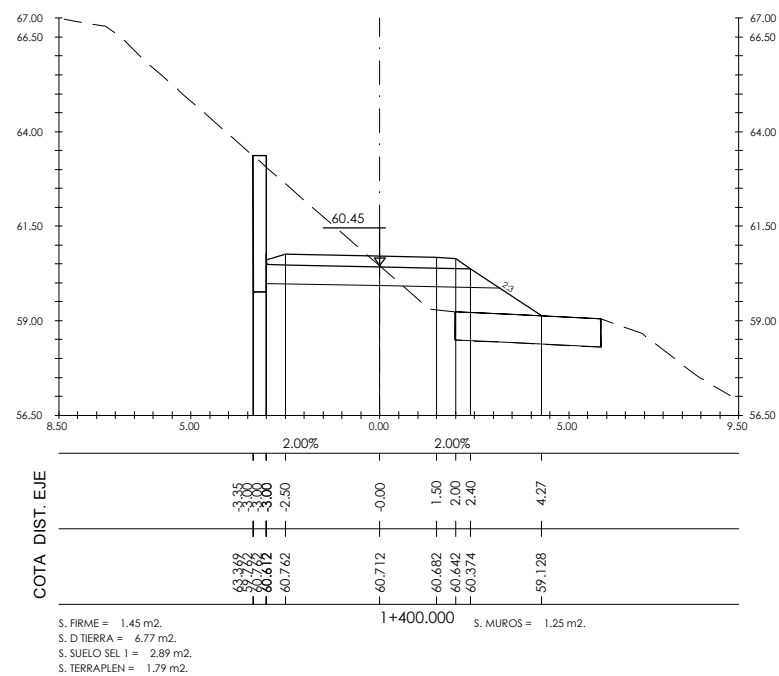
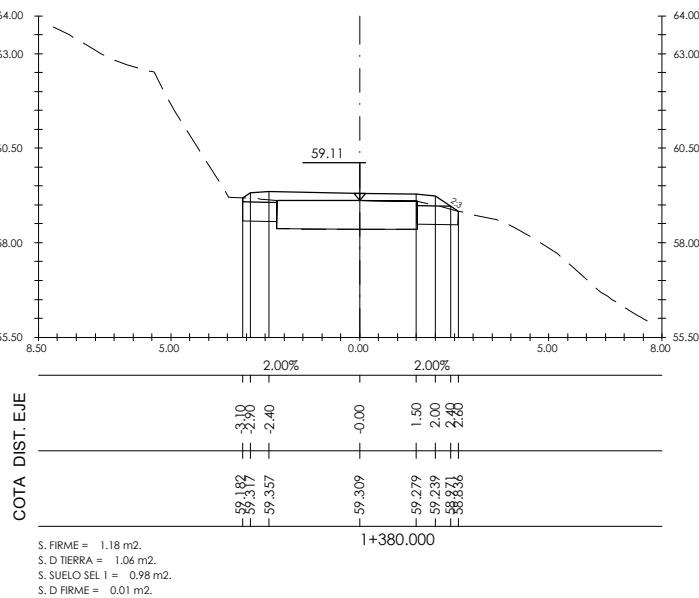
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S. D TIERRA = 0.40 m2.
S. SUELO SEL 1 = 0.59 m2.
S. D FIRME = 0.01 m2.
S. TERRAPLEN = 0.00 m2.

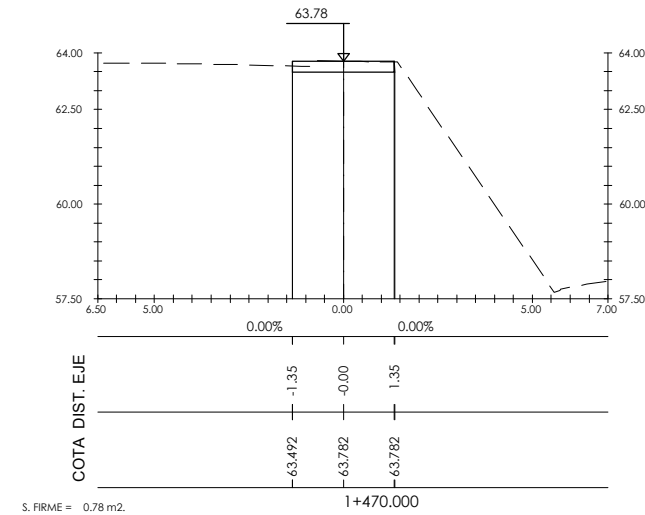
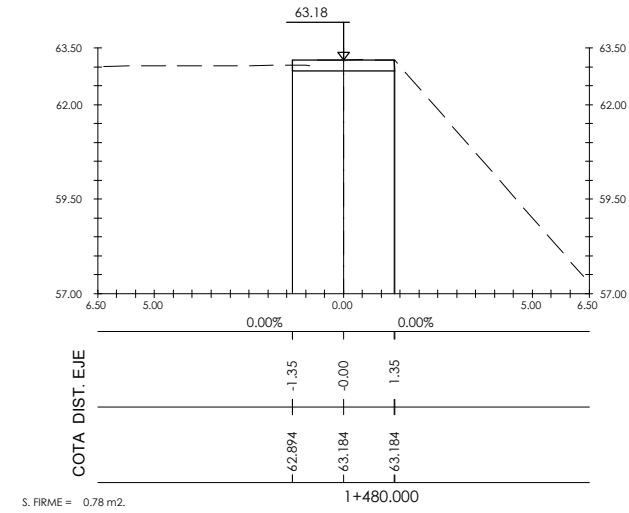
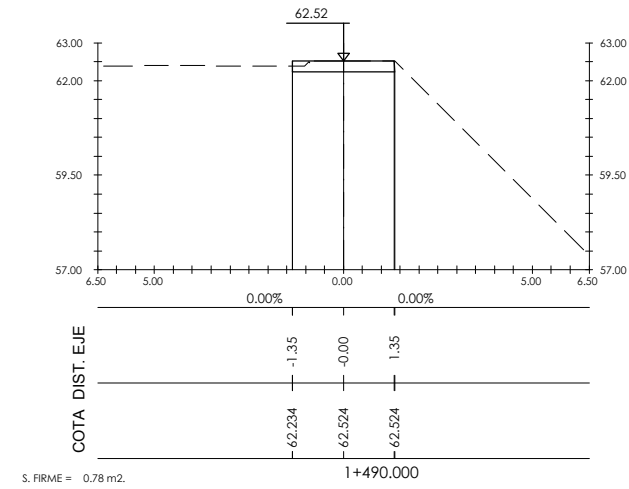


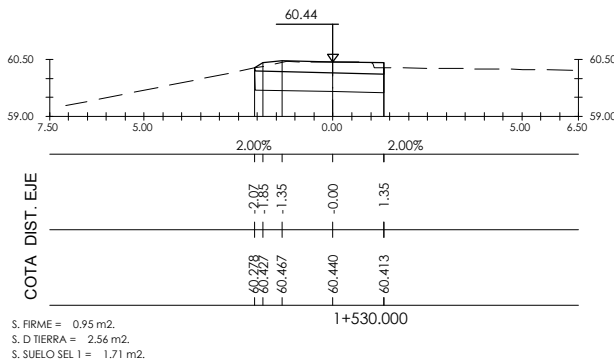
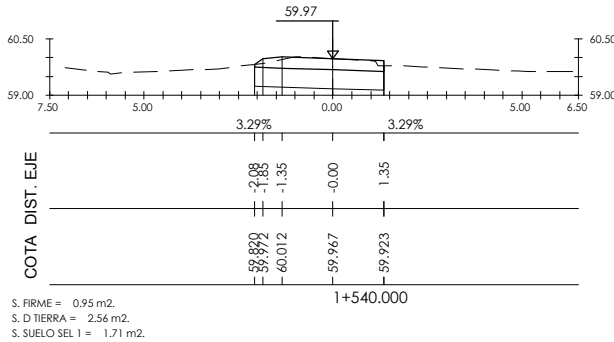
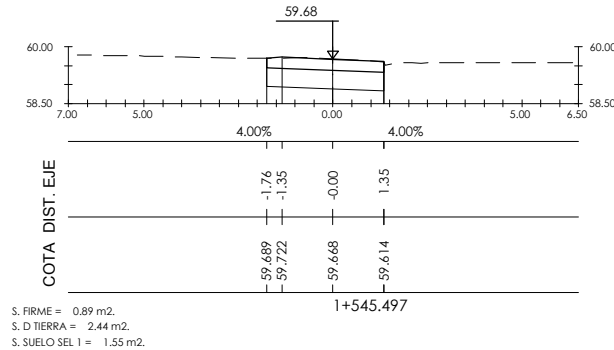
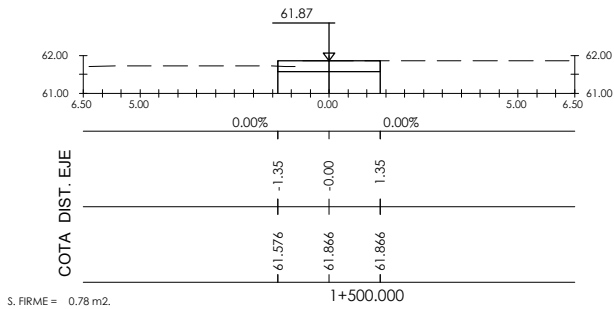
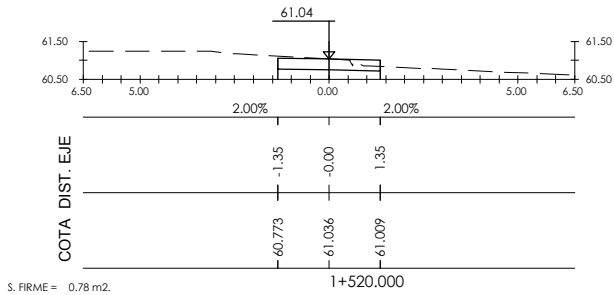
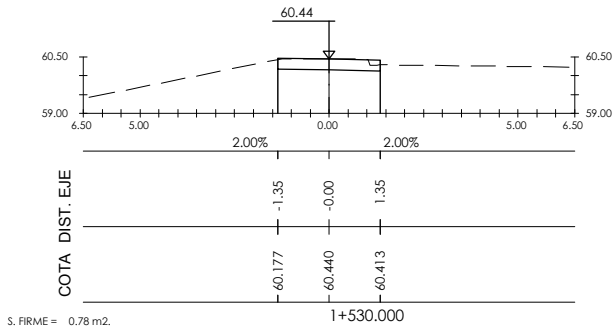
S. FIRME = 0.04 m2.
S. D FIRME = 0.01 m2.
S. TERRAPLEN = 0.02 m2.

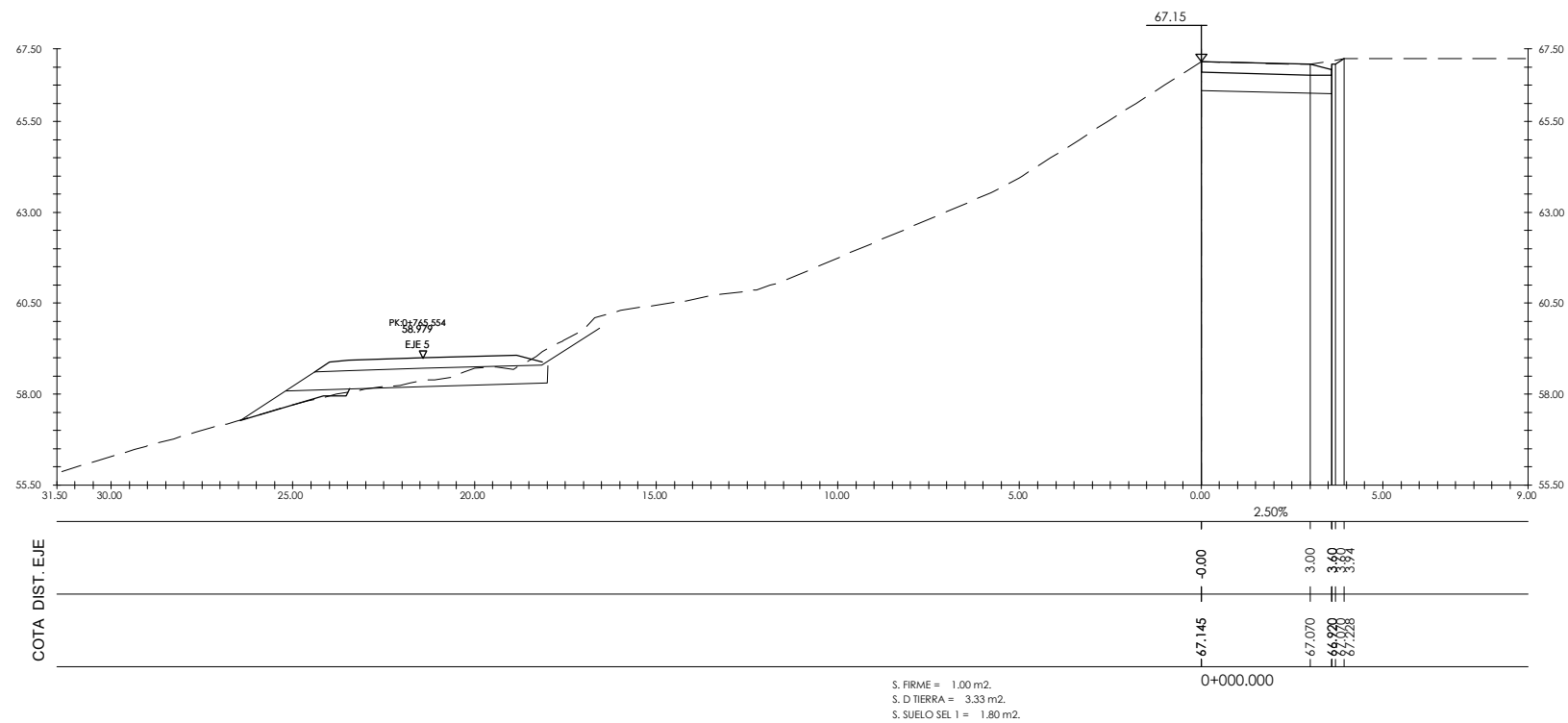
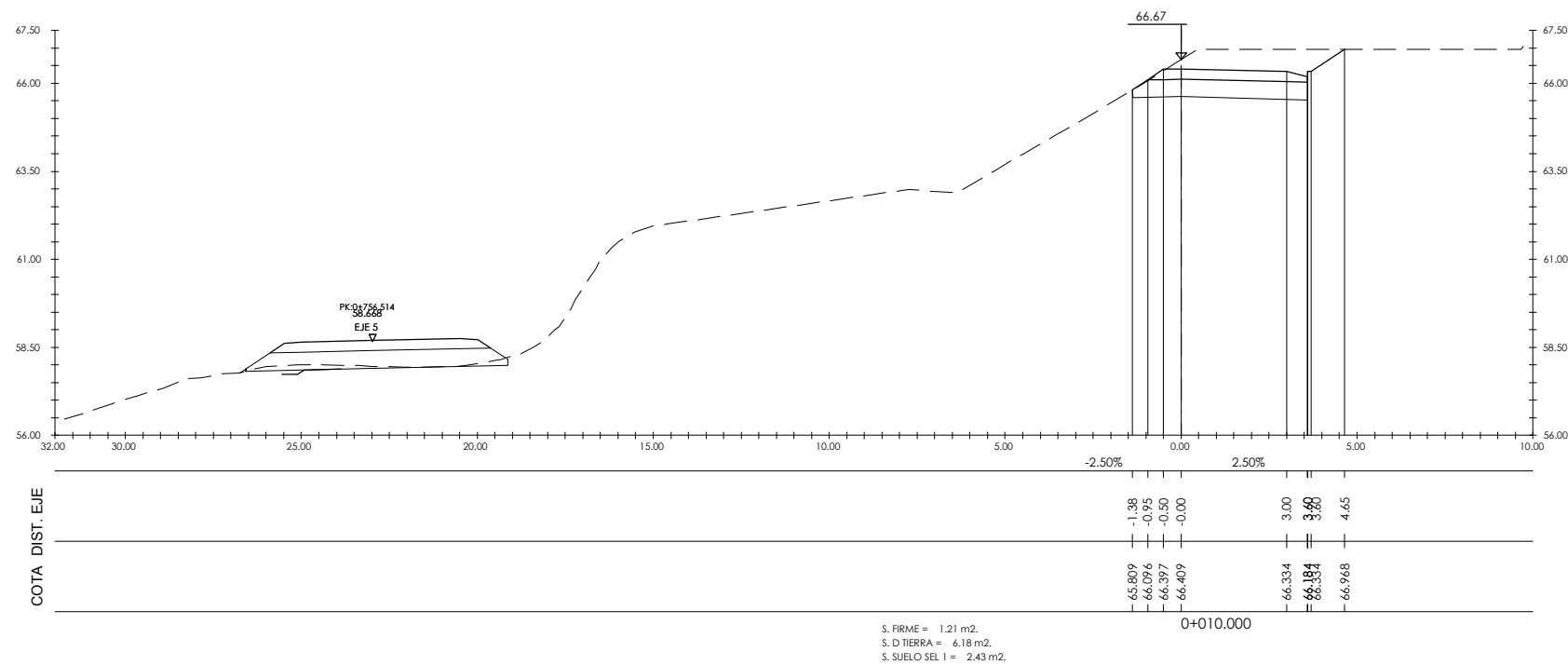


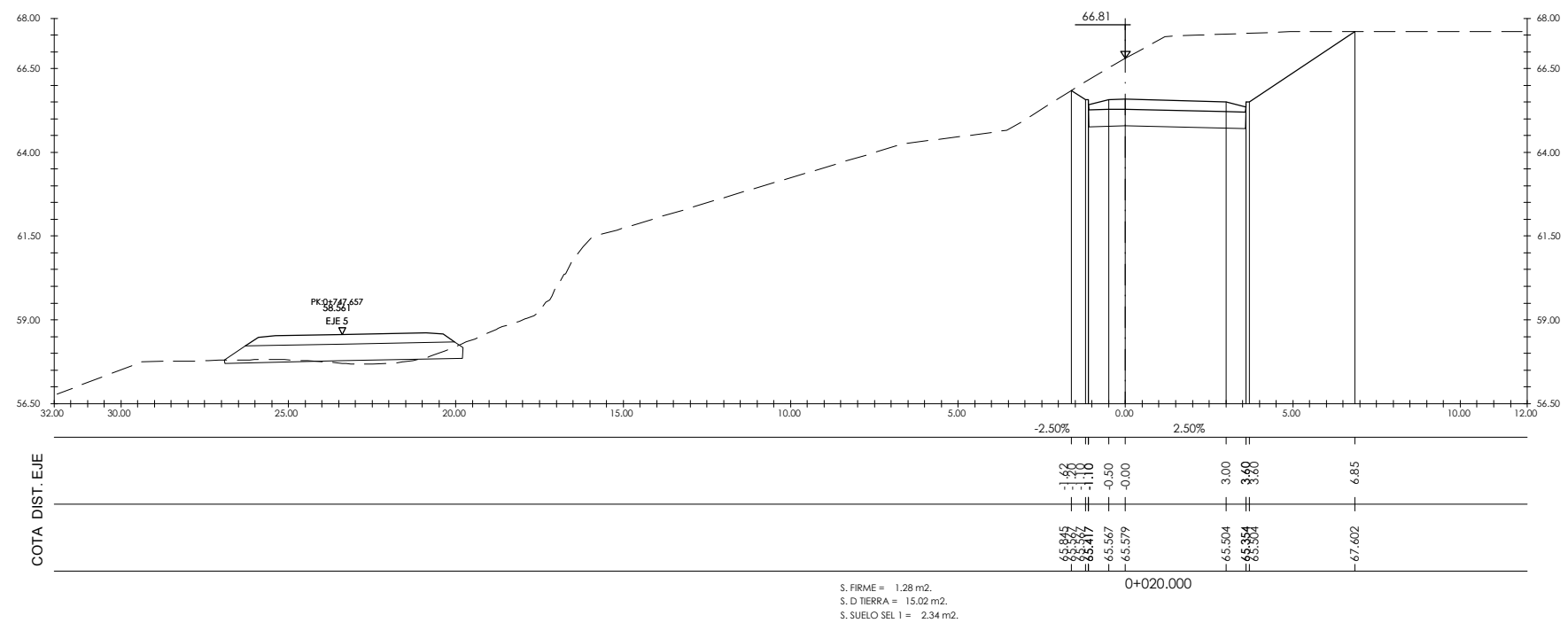
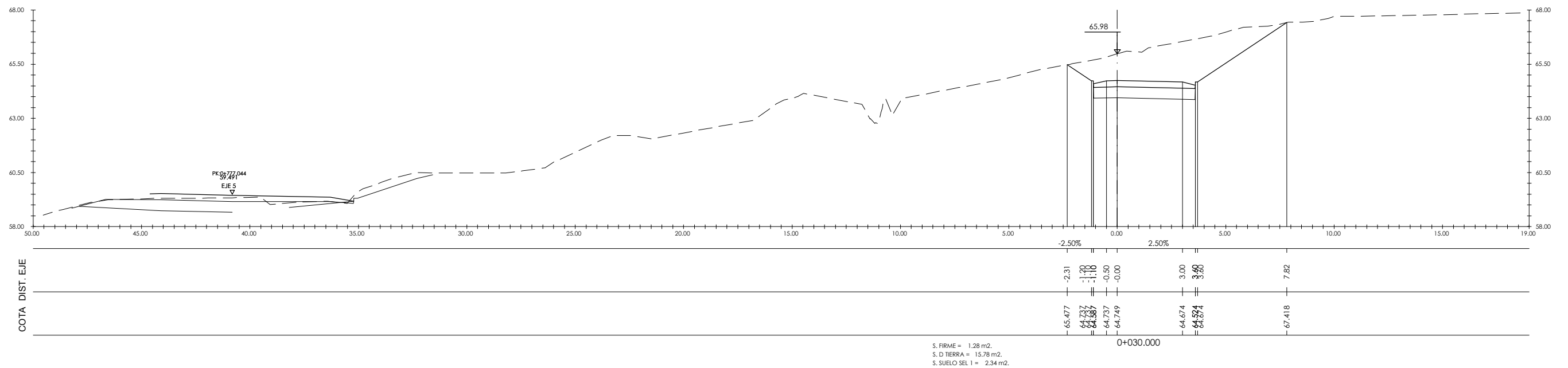
S. FIRME = 0.04 m2.
S. D FIRME = 0.04 m2.
S. TERRAPLEN = 0.01 m2.

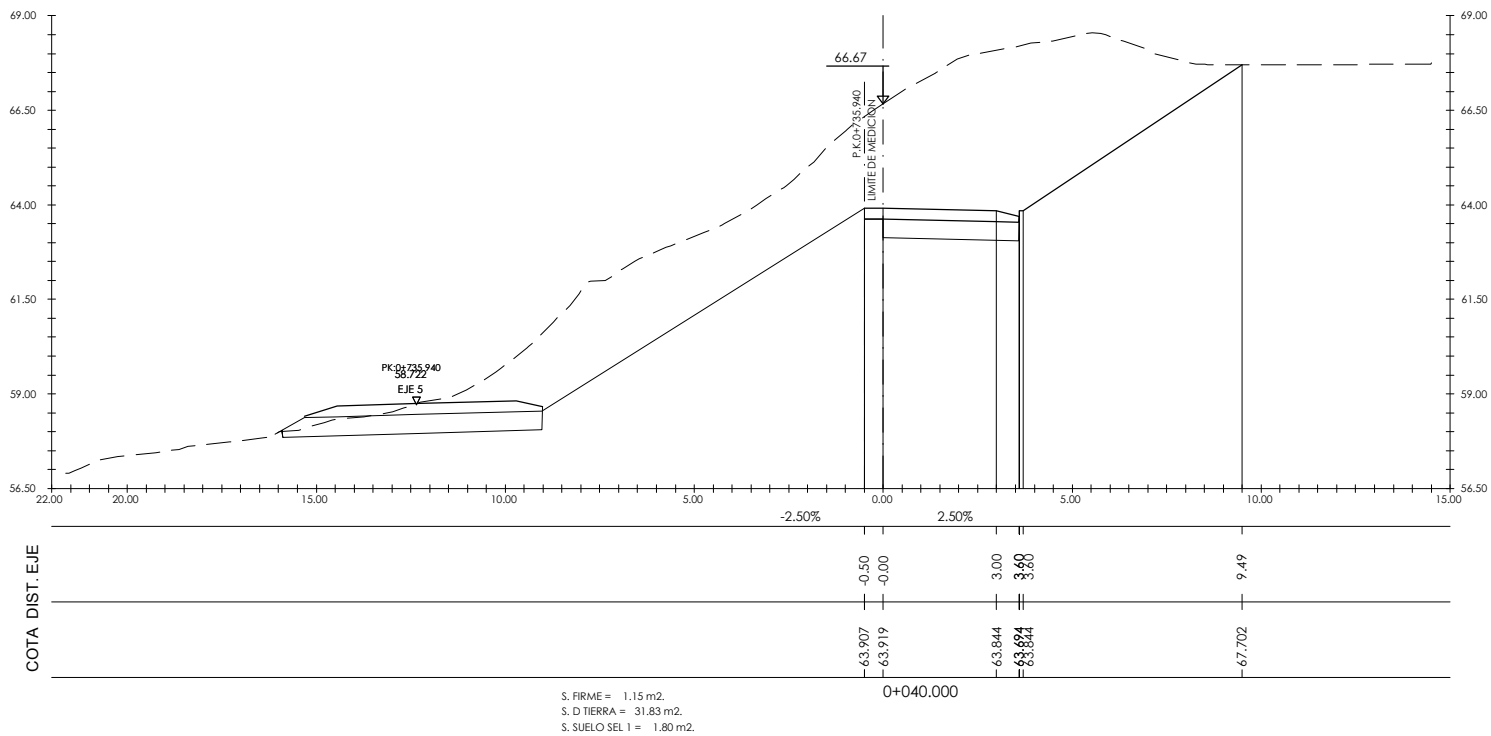
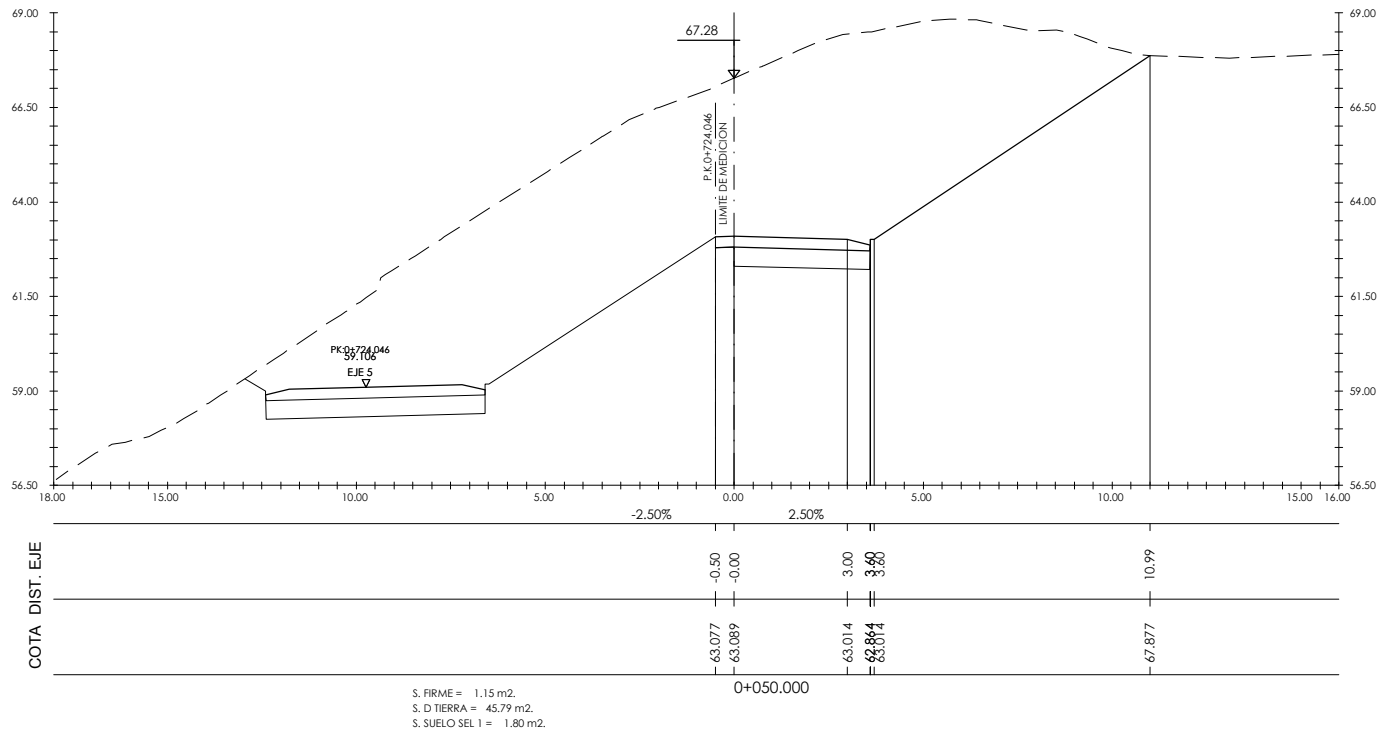


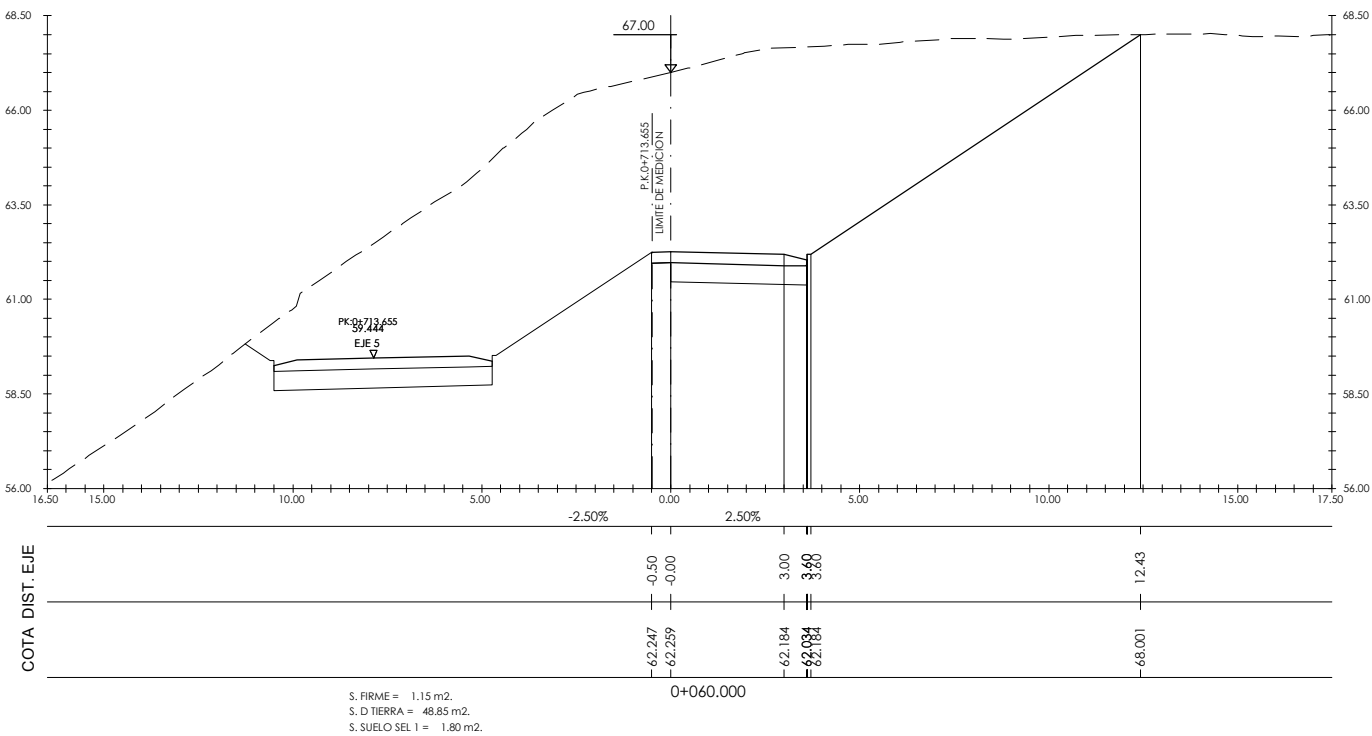
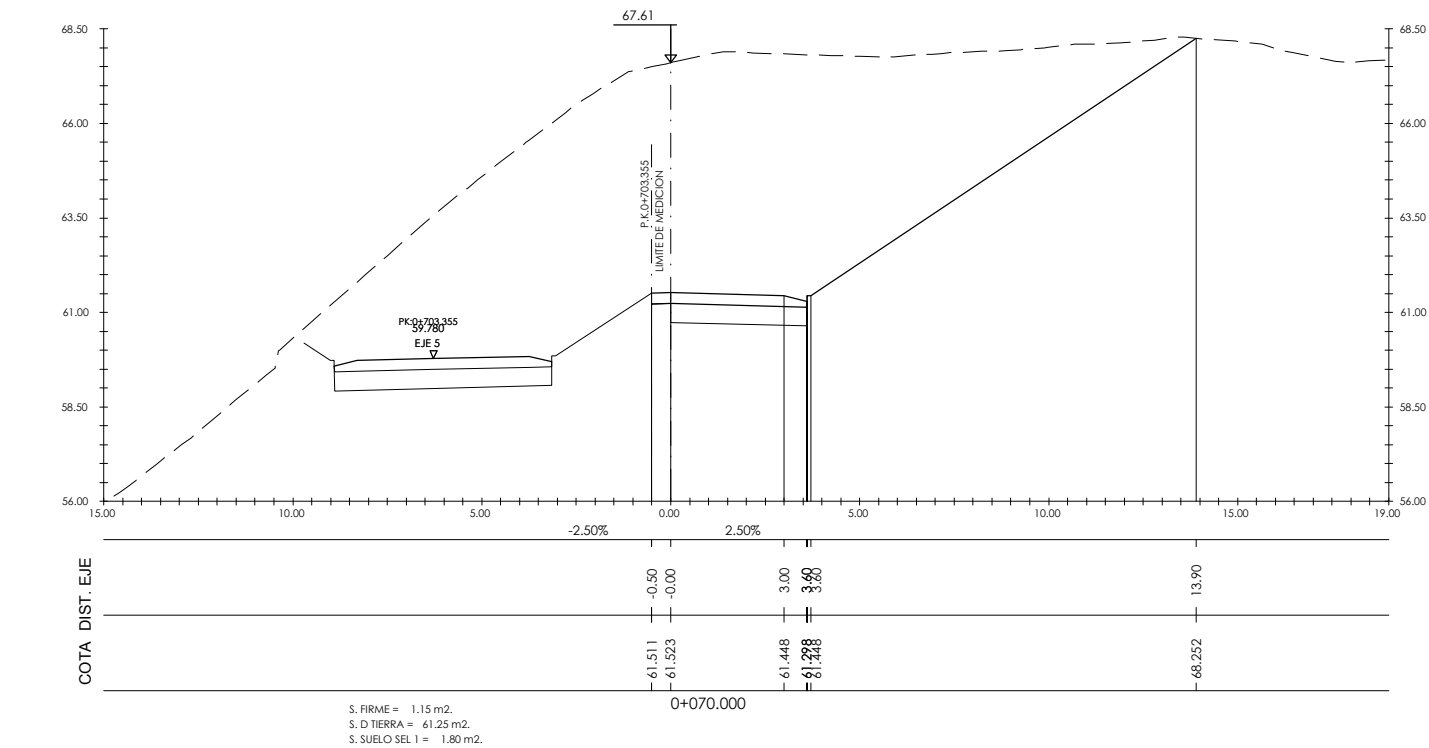




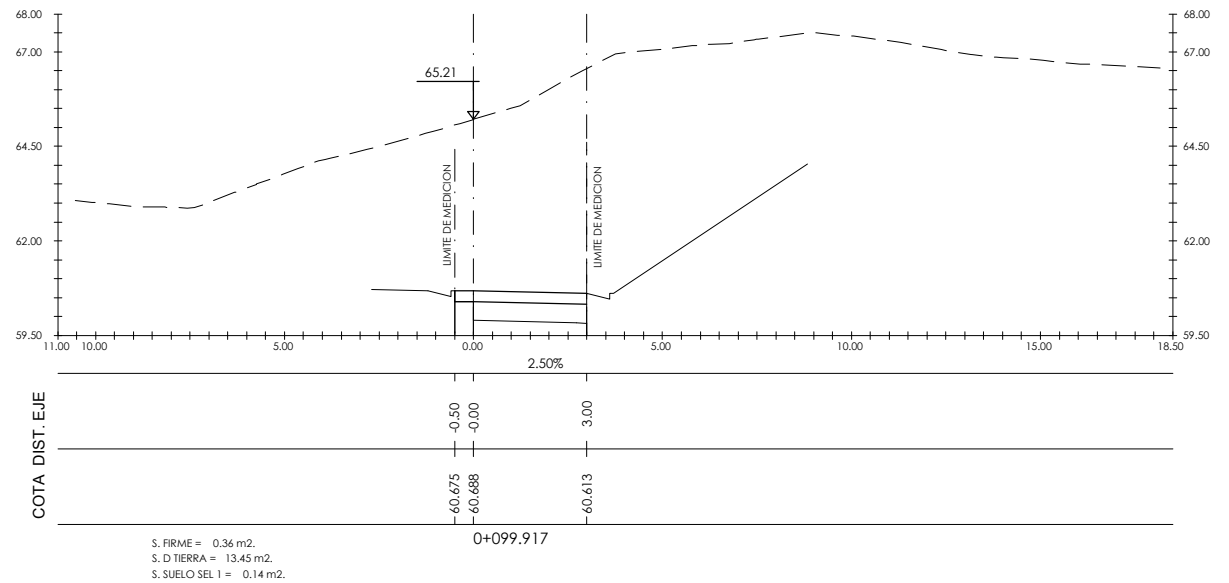
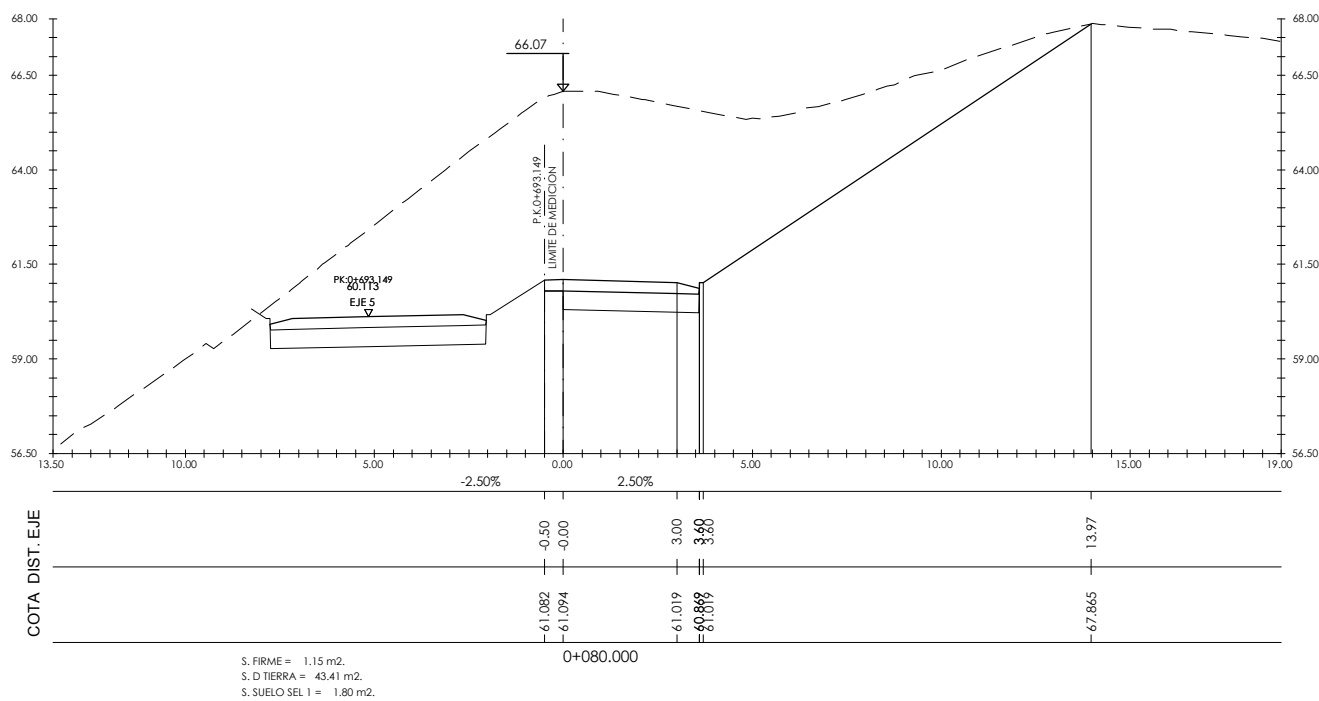
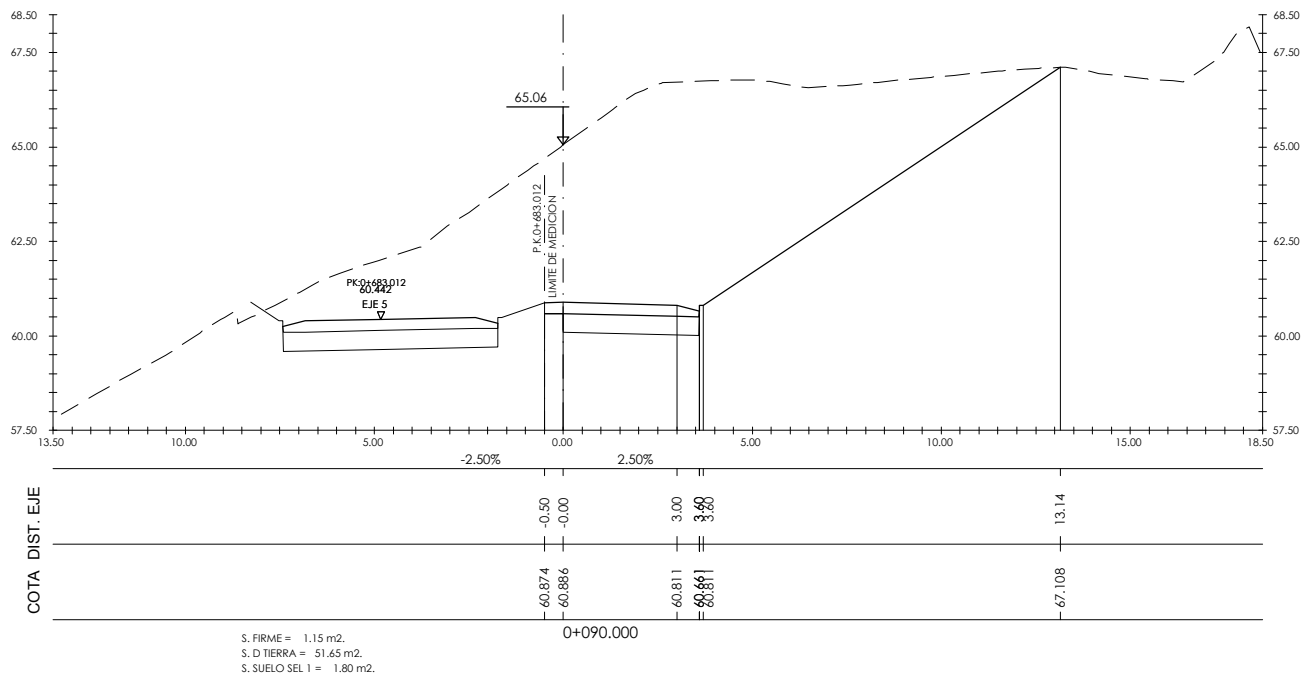




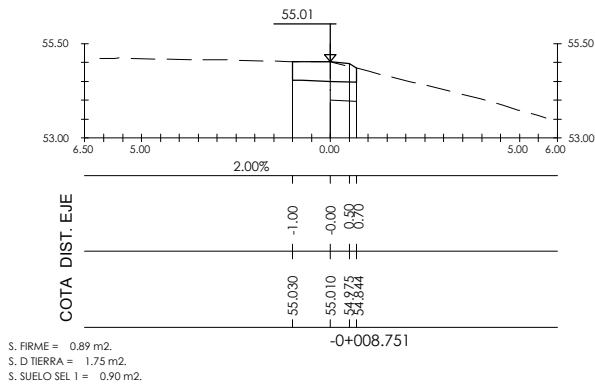
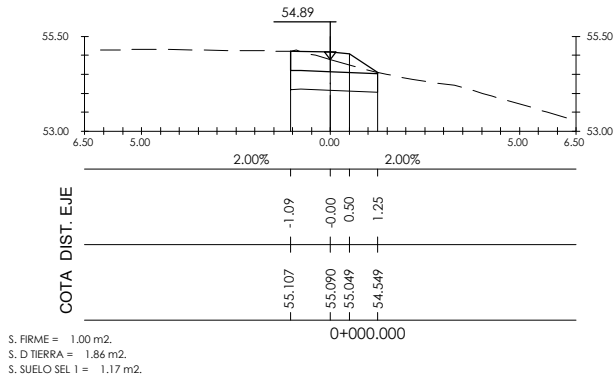




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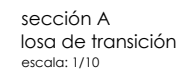
P:\vivos\X00000100\X00001000000000000032\02 Vigenles\01_Proyecto_Constructivo\Documento nº2. Planos\05_PERFILES_TRANSVERSALES\0503\01TRAN.dwg





longitudinal por eje de trazado
escala: 1/100

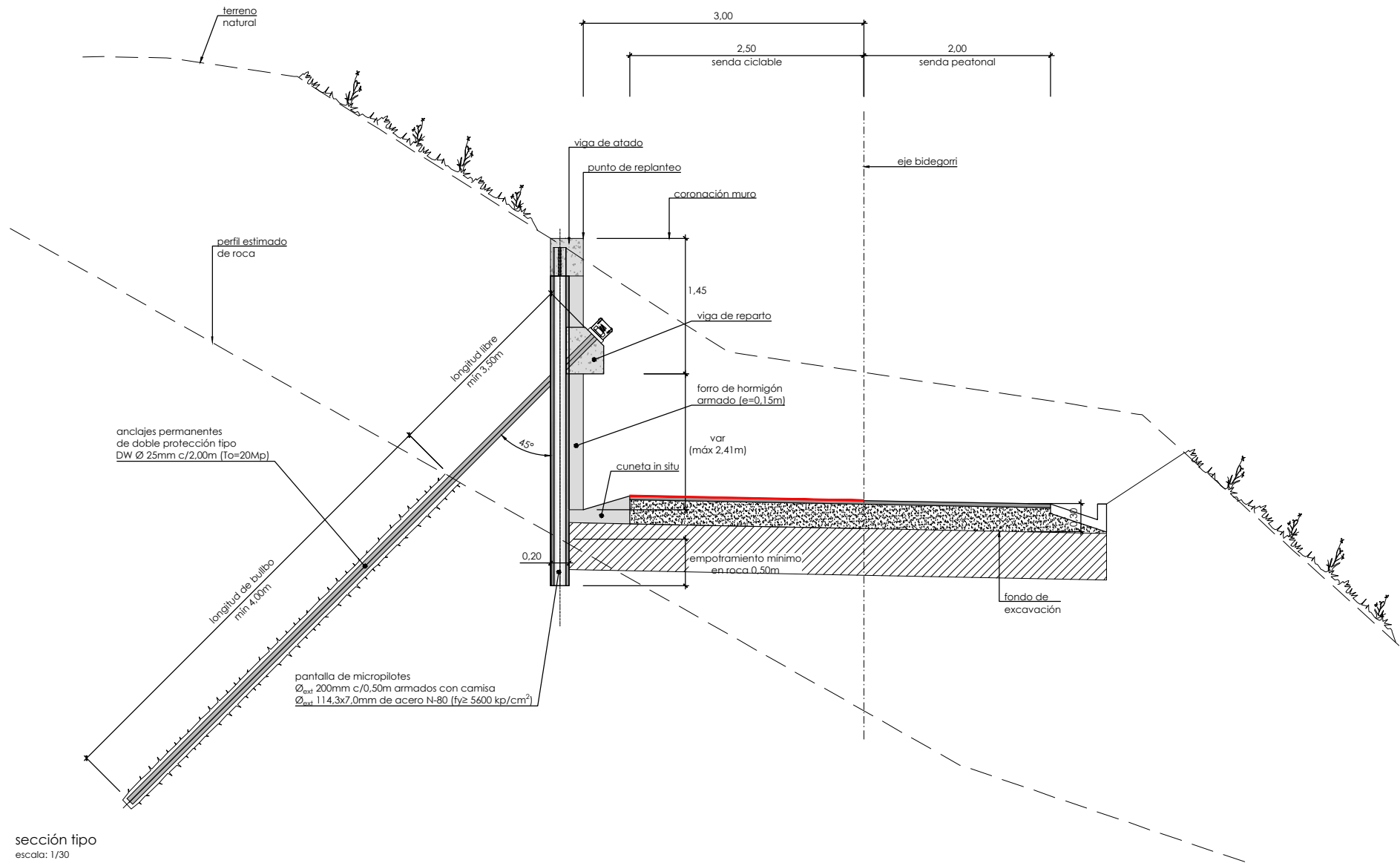
replanteo losa		
punto	x	y
a	508.980,614	4.783.475,208
b	508.983,881	4.783.473,090
c	508.983,155	4.783.479,308
d	508.979,827	4.783.481,897
e	508.978,898	4.783.482,711
f	508.944,452	4.783.473,940
g	508.944,900	4.783.469,450



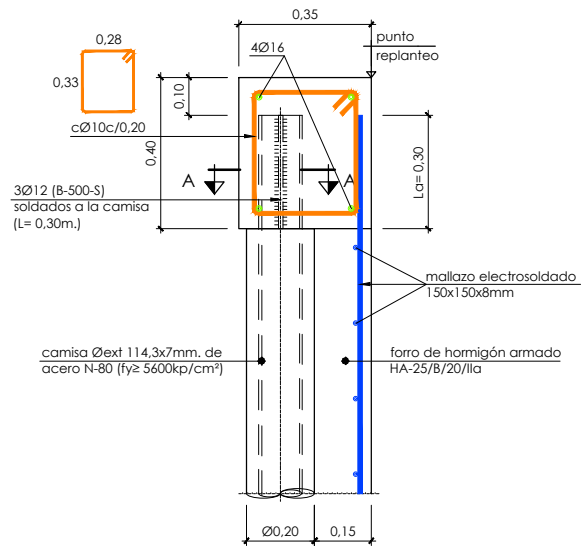
nota de cimentación:

- El muro se cimentará sobre el terraplén actual
- Se ha considerado una tensión admisible del terreno de apoyo de $1,50 \text{ kp/cm}^2$.

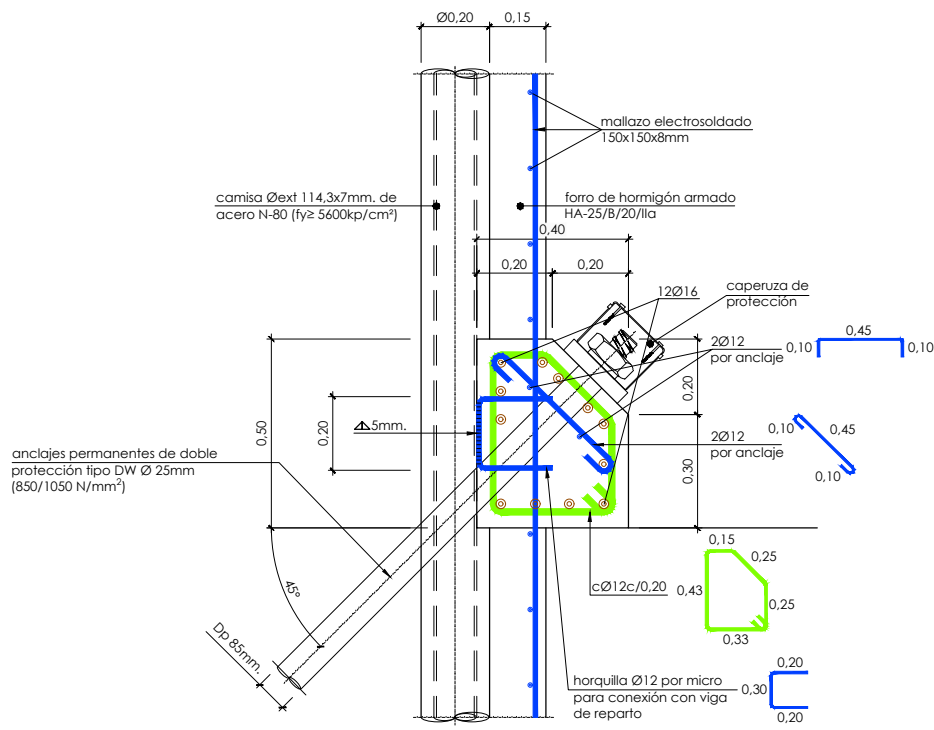
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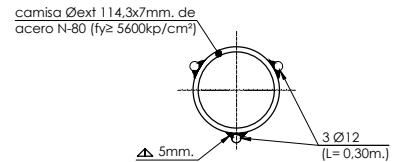
sección tipo
escala: 1/30



detalle 1
viga de atado
escala: 1/10



detalle 2
viga de reparto de anclajes
escala: 1/10

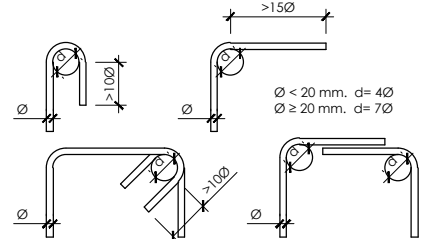


sección A-A
escala: 1/5

solapes de armaduras no indicados		
HA-25		
Ø mm.	posición I (m)	posición II (m)
8	0,40	0,60
10	0,50	0,75
12	0,60	0,90
16	0,80	1,20
20	1,20	1,70
25	1,90	2,60

armadura transversal

salvo casos especialmente indicados, los radios de doblado y longitudes de anclaje en los cercos serán los indicados en el siguiente esquema:

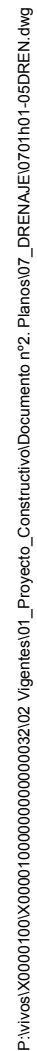


cuadro de características y control (según EHE)

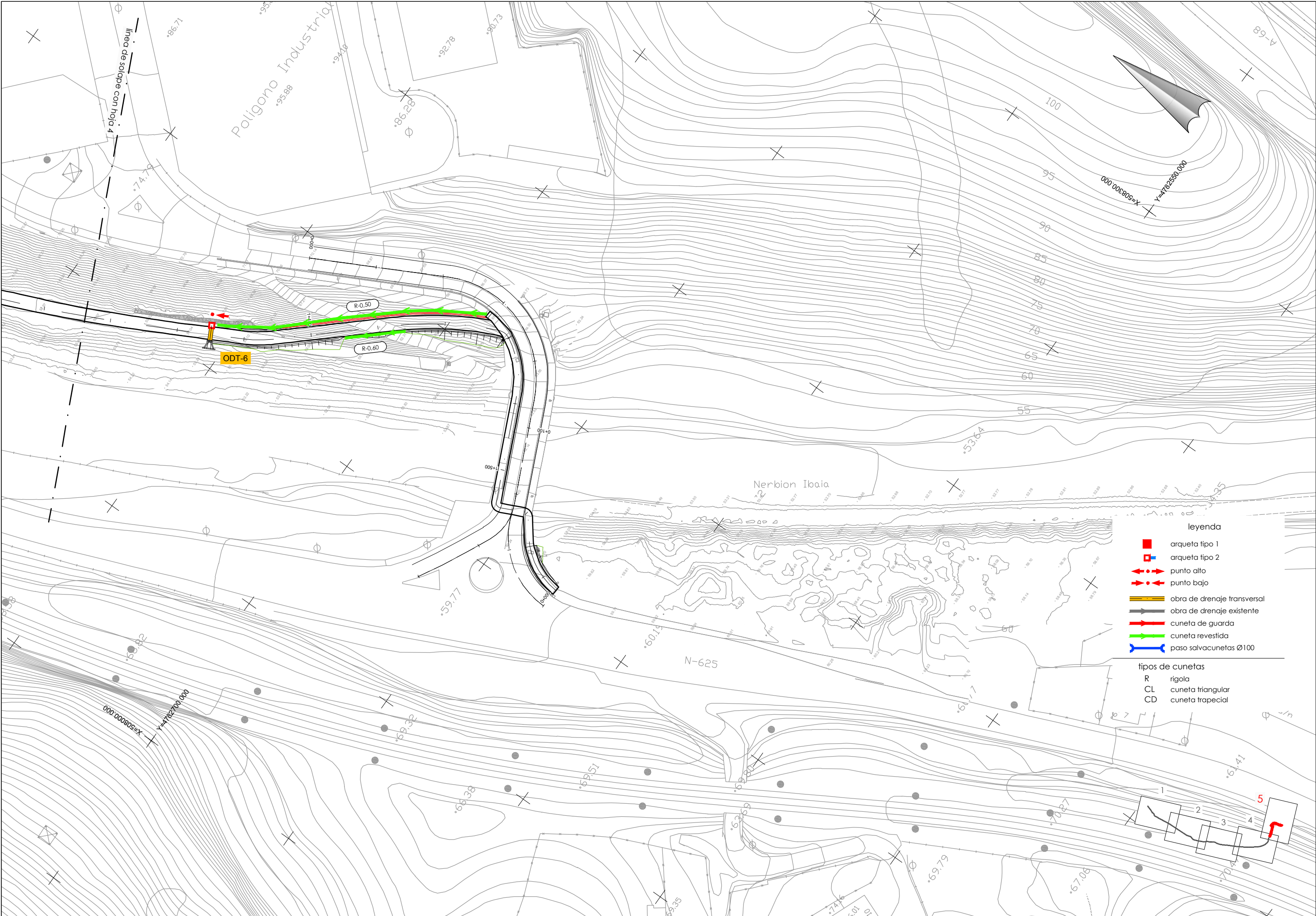
materiales					
hormigón					
elemento	tipo	control	persistente ó transitoria	accidental	servicio
viga de atado y reparto	HA-25/B/20/Ila	intenso	1,50	1,30	1,00
acero					
elemento	tipo	control	persistente ó transitoria	accidental	servicio
viga de atado y reparto	B500S	normal	1,15	1,00	1,00
vida útil del proyecto (t _g): 100 años					recubrimiento
tipo de cemento: CEM-I					30 mm

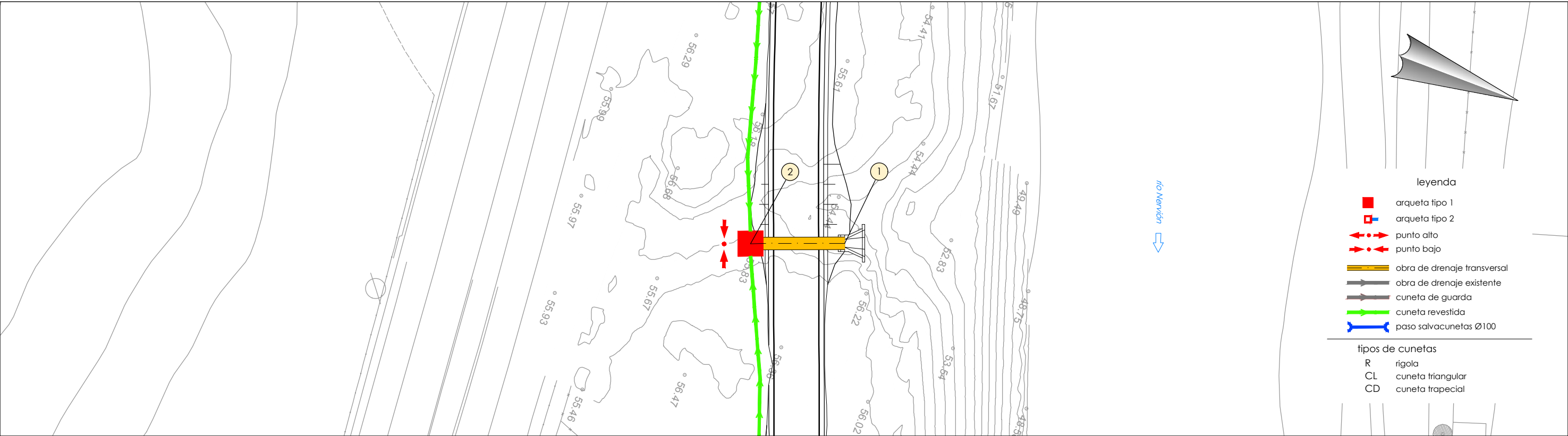
nota de cimentación:

- Los micropilotes se empotrarán un mínimo de 0,50m en el sustrato rocoso y bajo el fondo de la excavación.



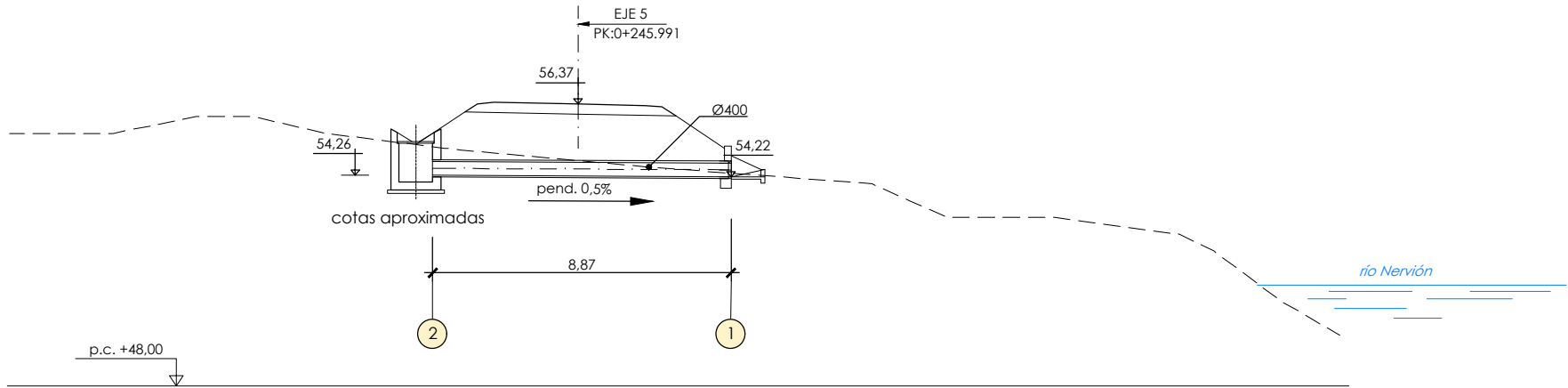
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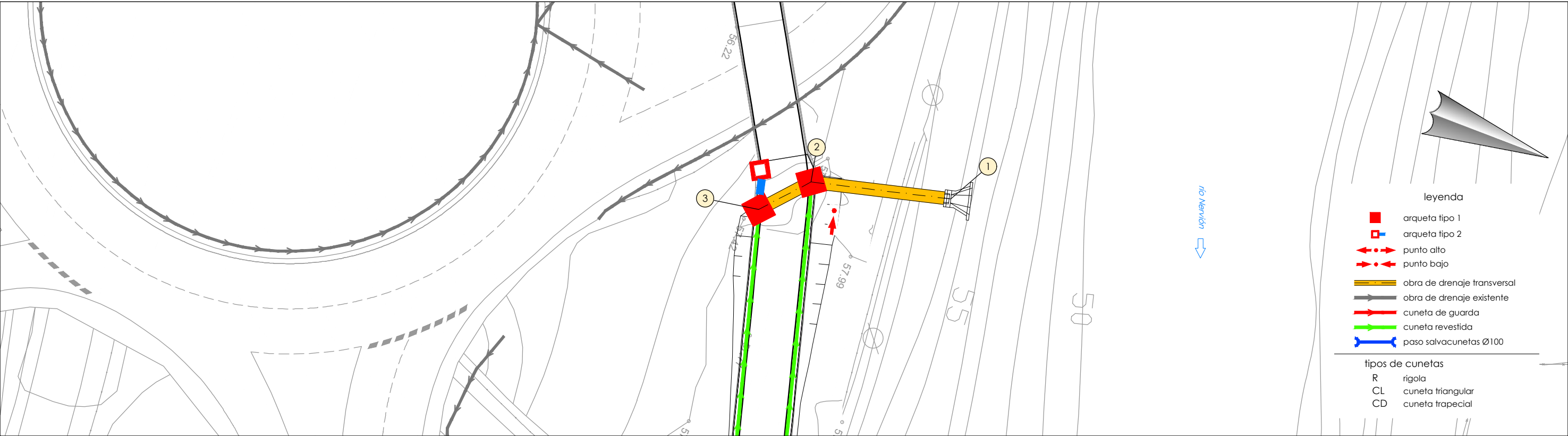
planta
escala 1:200

arqueta/ boquilla	coordenadas	
	x	y
1	508.848,952	4.783.441,254
2	508.852,325	4.783.432,512



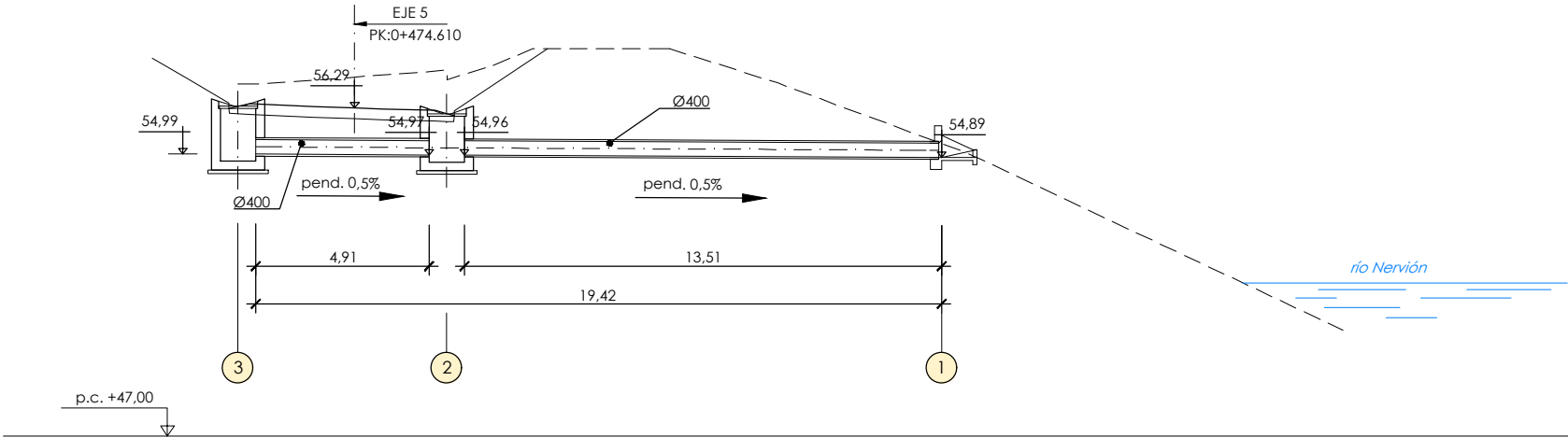
cotas aproximadas
se comprobaran en obra

O.D.T.-1
escala 1:100



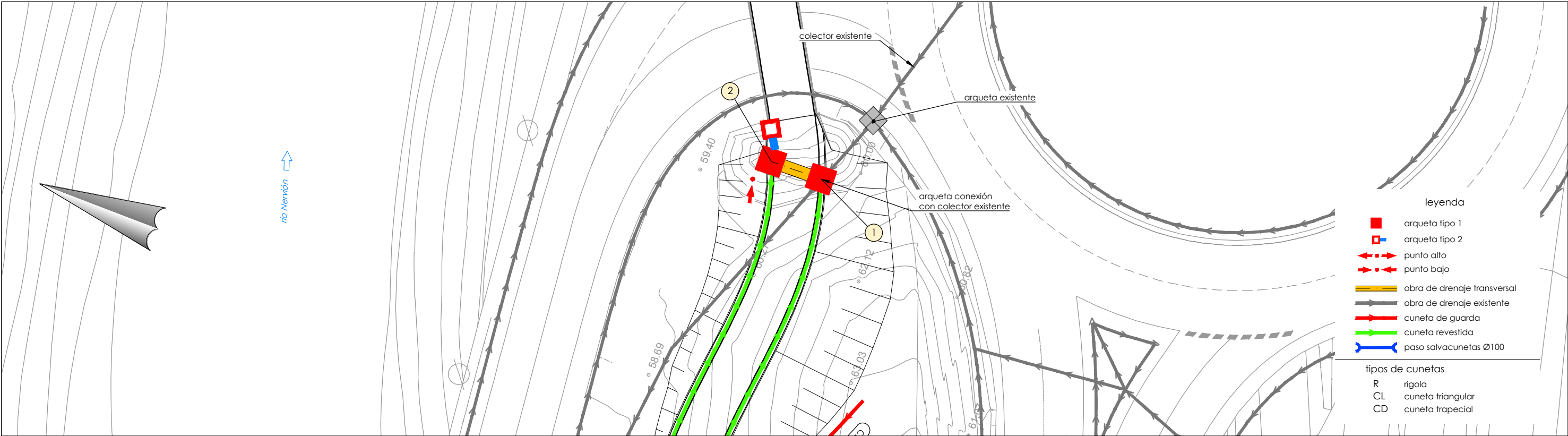
planta
escala 1:200

arqueta/ boquilla	coordenadas	
	x	y
1	508.625,559	4.783.389,360
2	508.628,940	4.783.375,764
3	508.633,371	4.783.371,850



cotas aproximadas
se comprobaran en obra

O.D.T.-I
escala 1:100

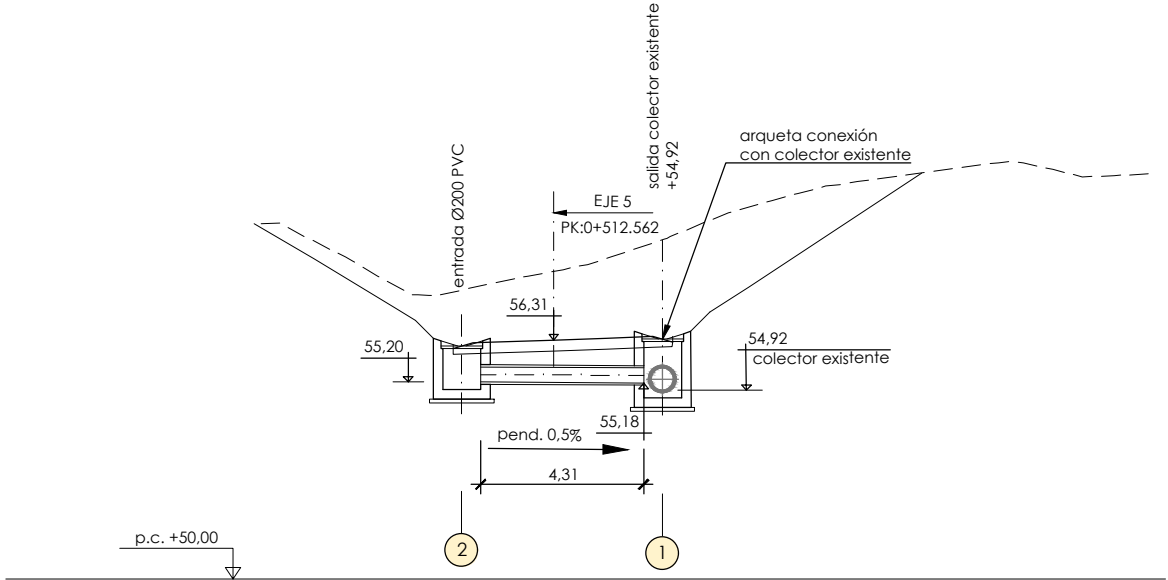


planta
escala 1:200

arqueta/ boquilla	coordenadas	
	x	y
1*	508.597,857	4.783.352,712
2	508.597,714	4.783.357,987

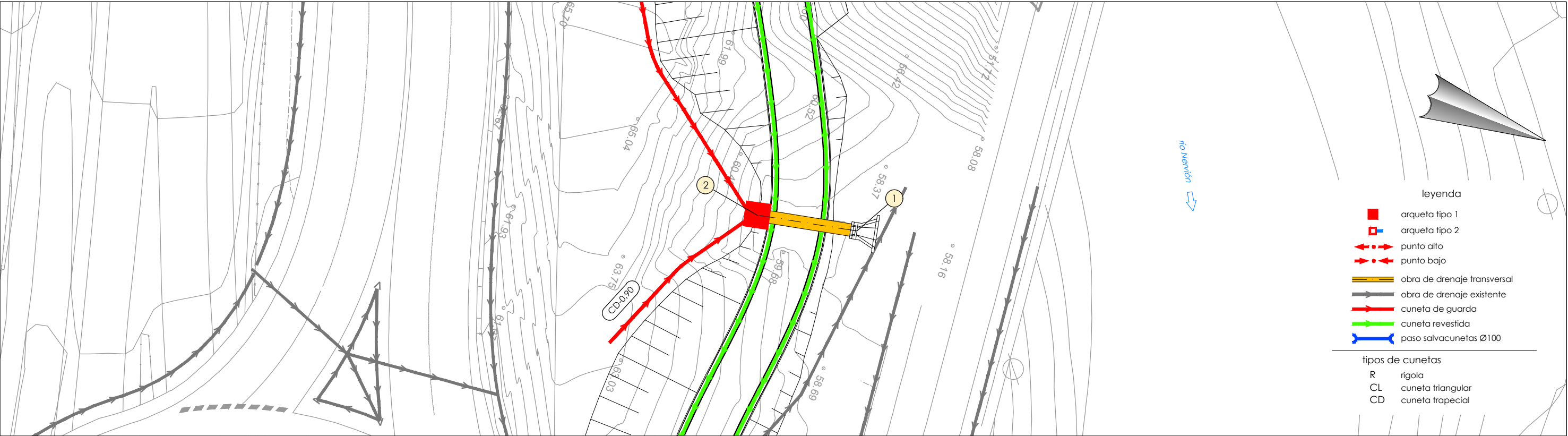
* coordenada aproximada, se comprobará en obra el punto de conexión

Nota:
La conexión con el drenaje existente se adjunta en el apéndice 4.1 hoja 2



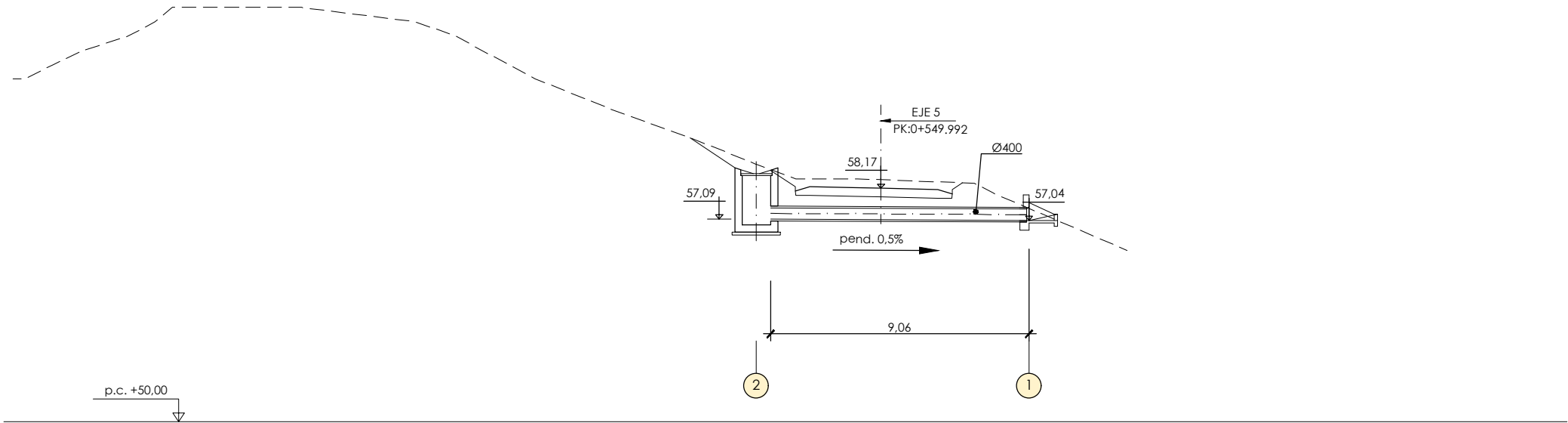
cotas aproximadas
se comprobaran en obra

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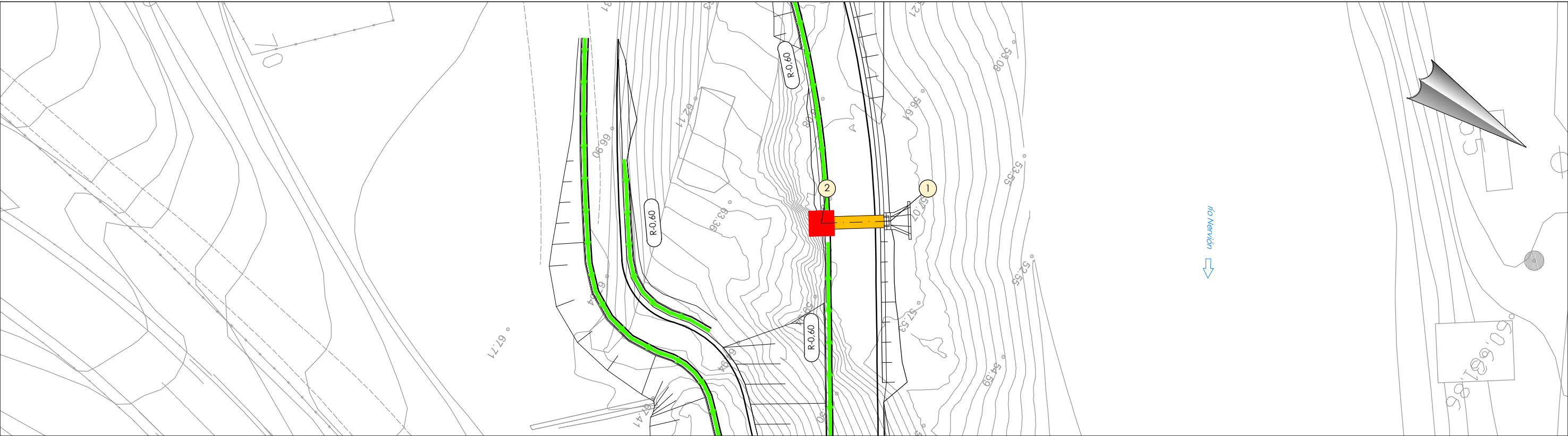
planta
escala 1:200

arqueta/ boquilla	coordenadas	
	x	y
1	508.559,521	4.783.360,033
2	508.561,593	4.783.350,168



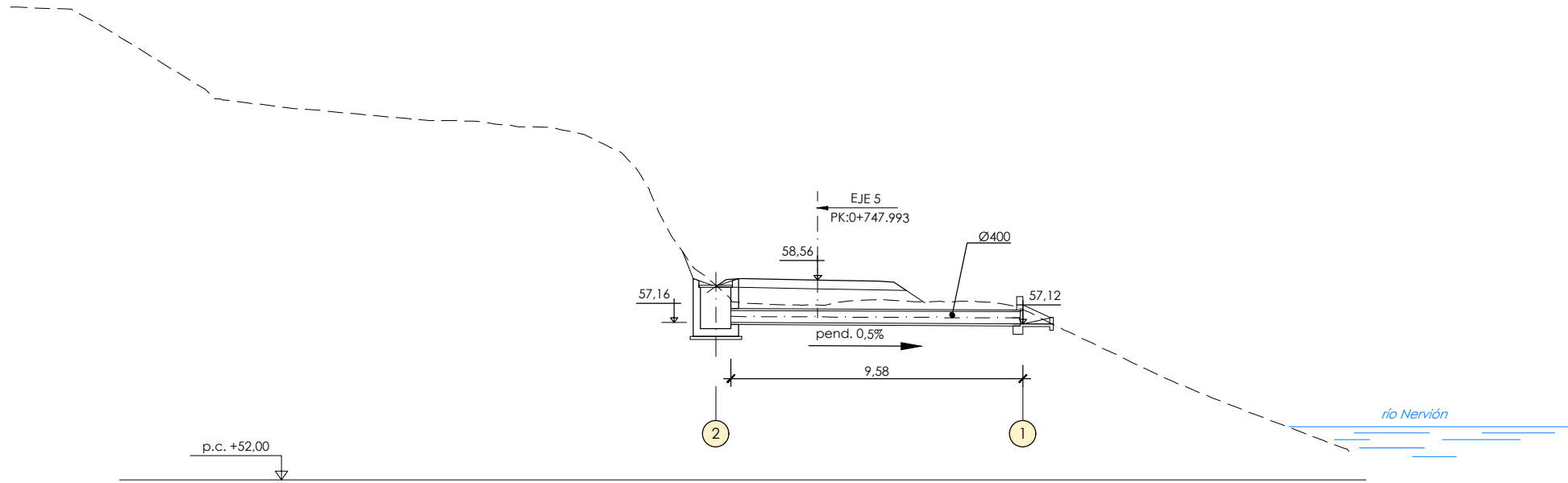
cotas aproximadas
se comprobaran en obra

O.D.T.-I
escala 1:100



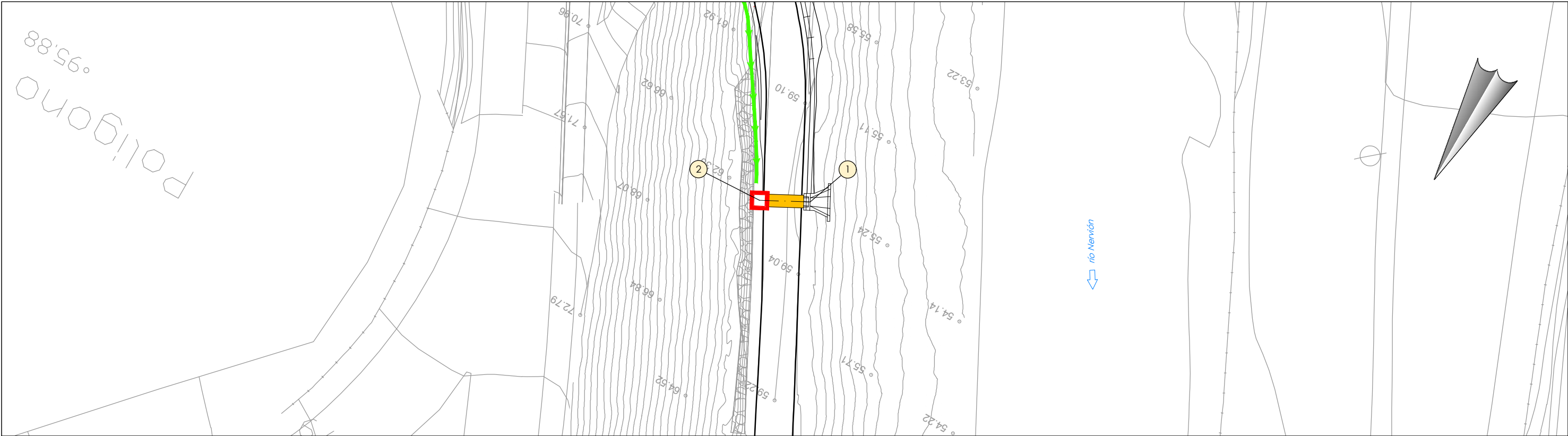
planta
escala 1:200

arqueta/ boquilla	coordenadas	
	x	y
1	508.405,134	4.783.235,738
2	508.409,019	4.783.230,061

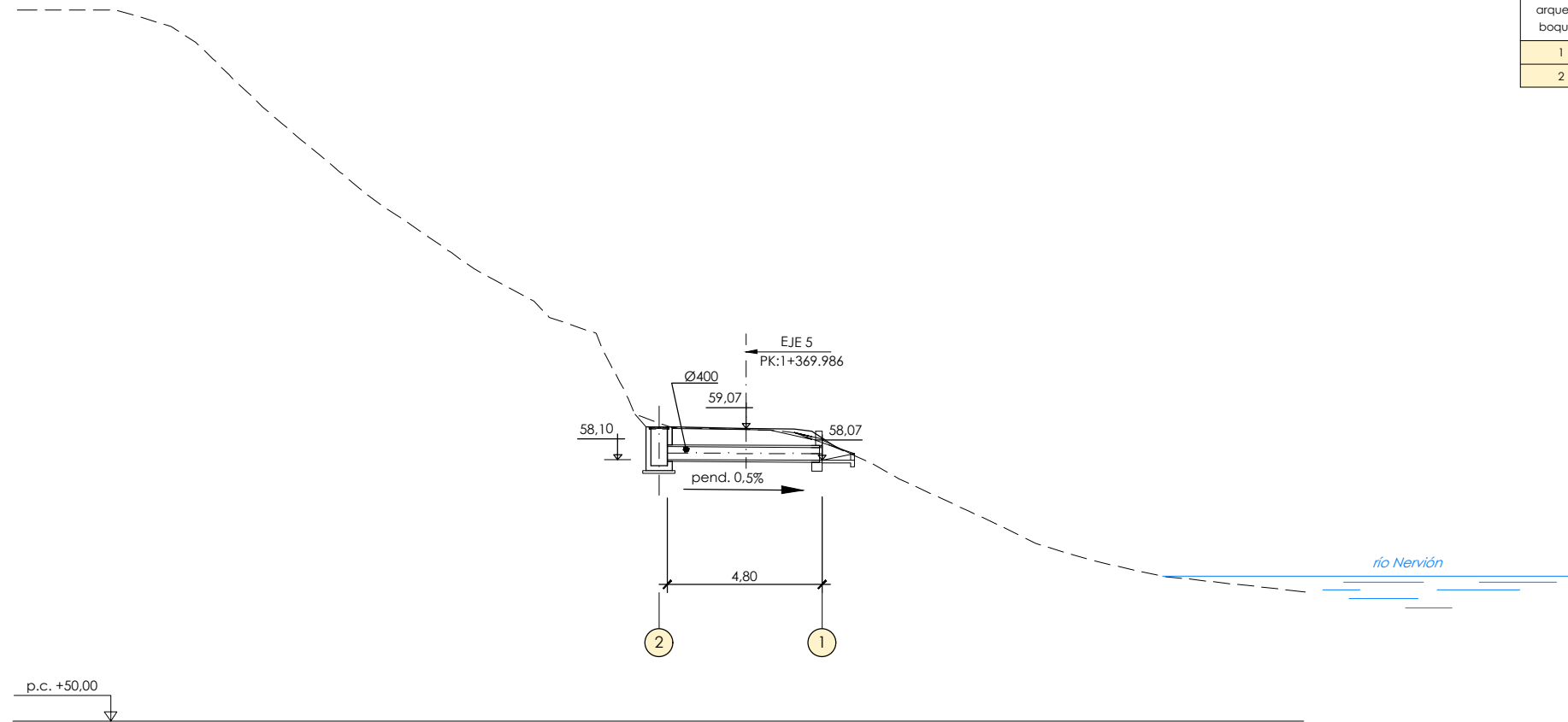


cotas aproximadas
se comprobaran en obra

O.D.T.-1
escala 1:100



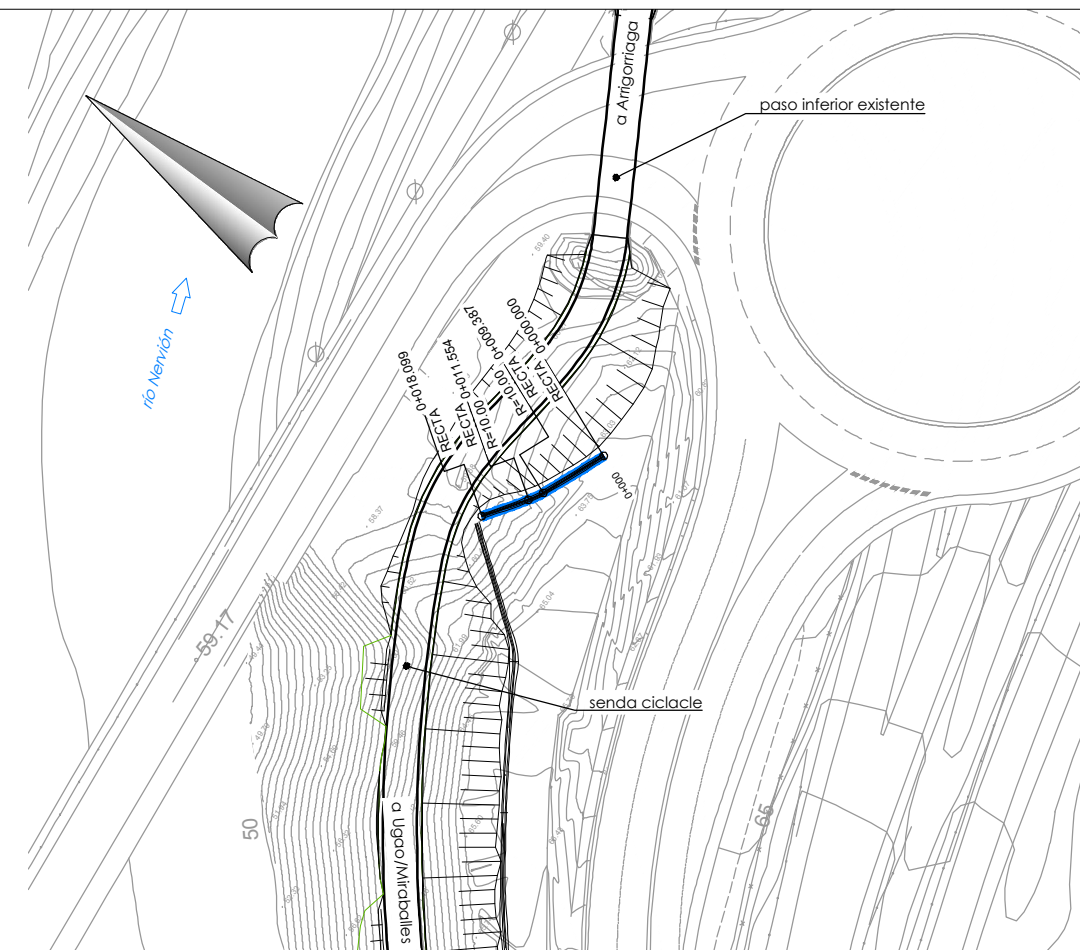
planta
escala 1:200



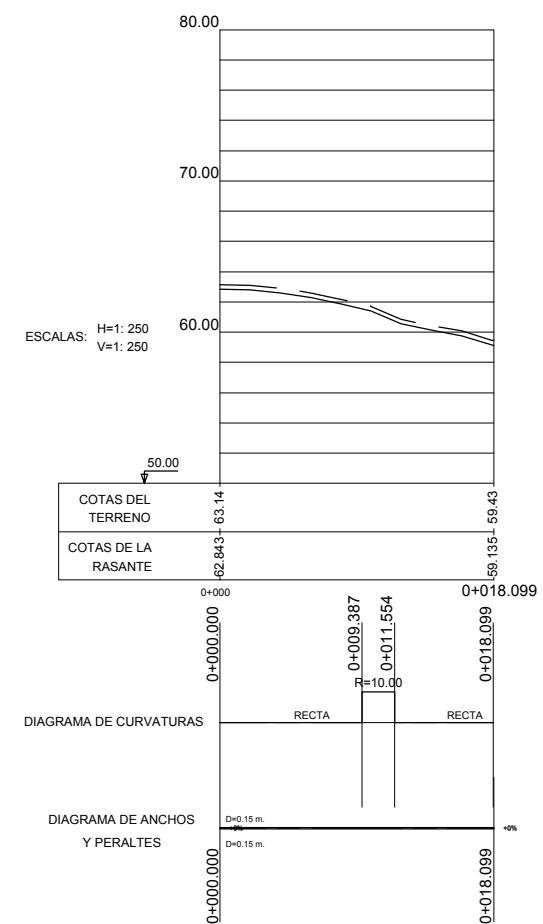
arqueta/ boquilla	coordenadas	
	x	y
1	508.106,348	4.782.754,588
2	508.110,802	4.782.756,968

cotas aproximadas
se comprobaran en obra

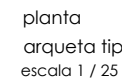
O.D.T.-1
escala 1:100



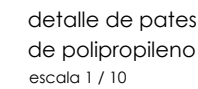
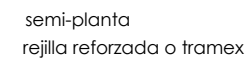
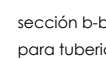
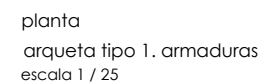
cuneta de guarda
planta eje 13
escala 1/500



cuneta de guarda
perfil longitudinal eje 13



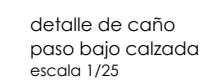
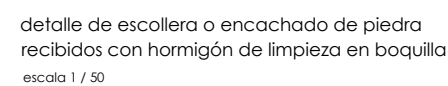
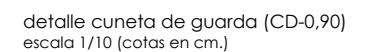
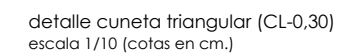
afianzamiento eventual en lado anterior de la boca de entrada.



Technical drawing of a mechanical part with the following dimensions and features:

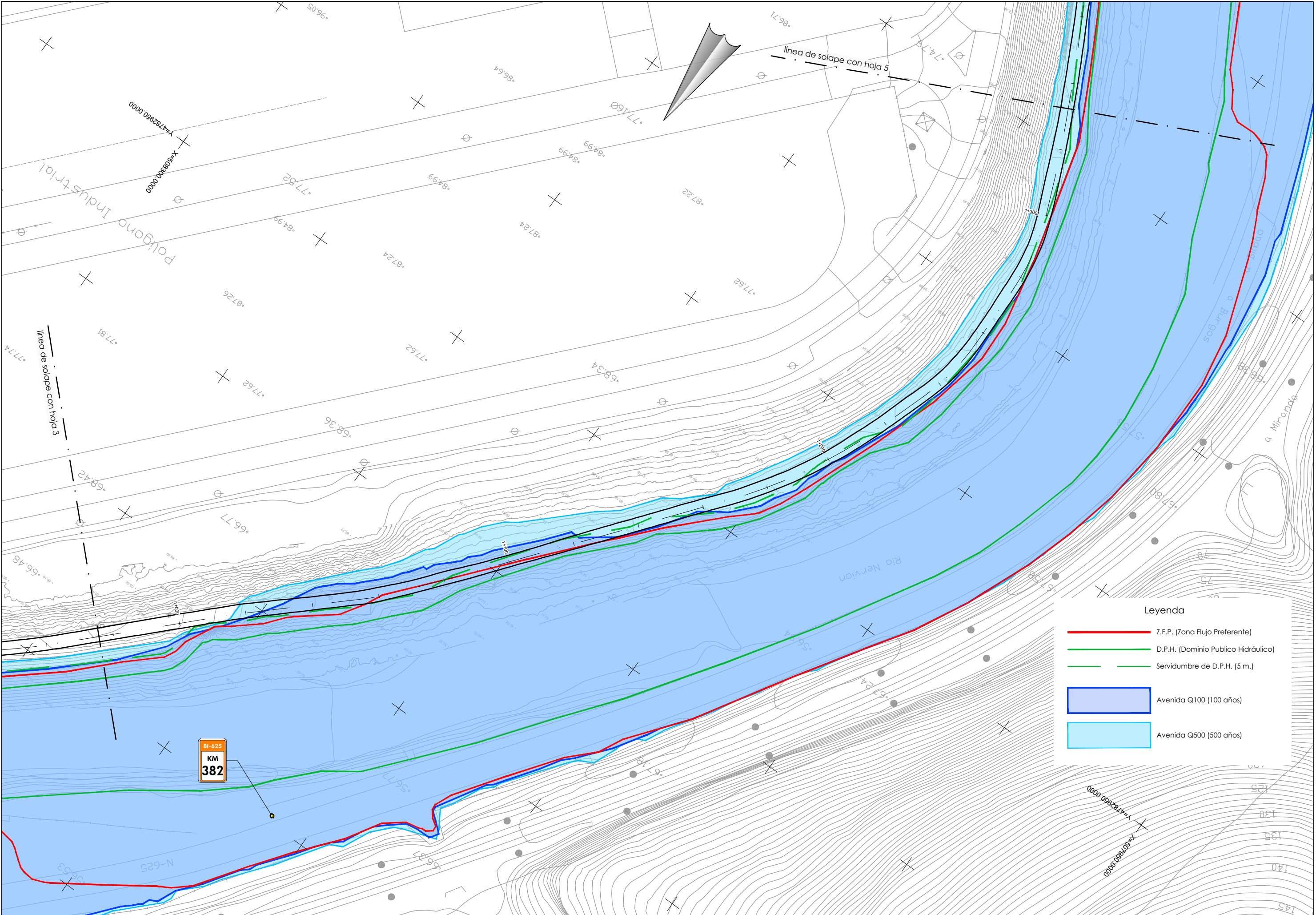
- Overall width: 60
- Overall height: 15
- Left vertical edge: 15
- Top horizontal edge: 60
- Internal horizontal step: 12
- Internal vertical step: 3
- Fillet radii: $r = 1,5$ (at the bottom-left corner, the internal step, and the bottom-right corner)
- Right vertical edge: 15
- Bottom horizontal edge: 60

cuneta de hormigón (R-0,60)
escala 1/10 (cotas en cm.)



d	a	b	e	h
mm.	m.	m.	m.	m.
400	0,490	0,790	0,150	0,480
600	0,730	1,030	0,150	0,703
800	0,970	1,370	0,200	0,938

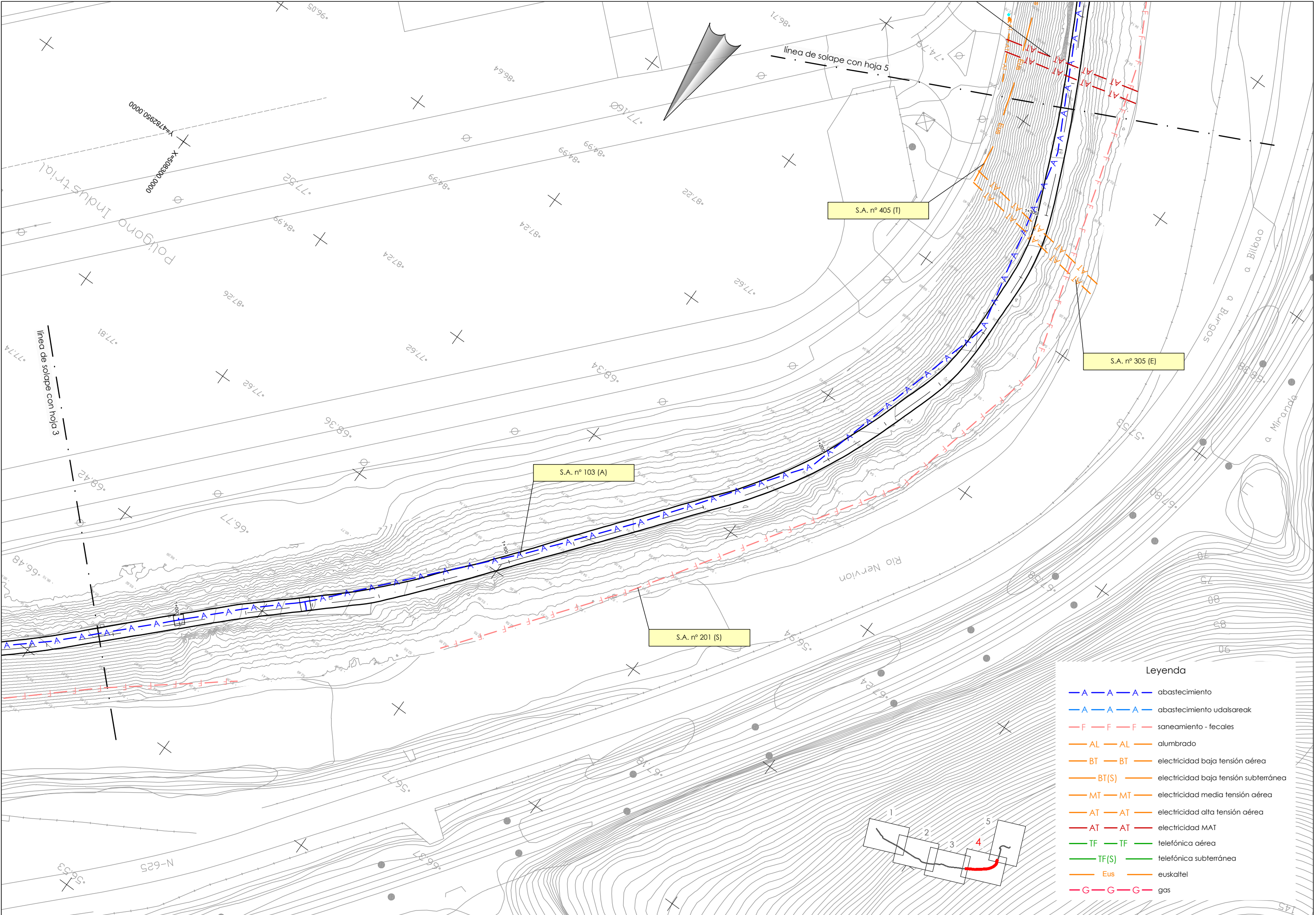
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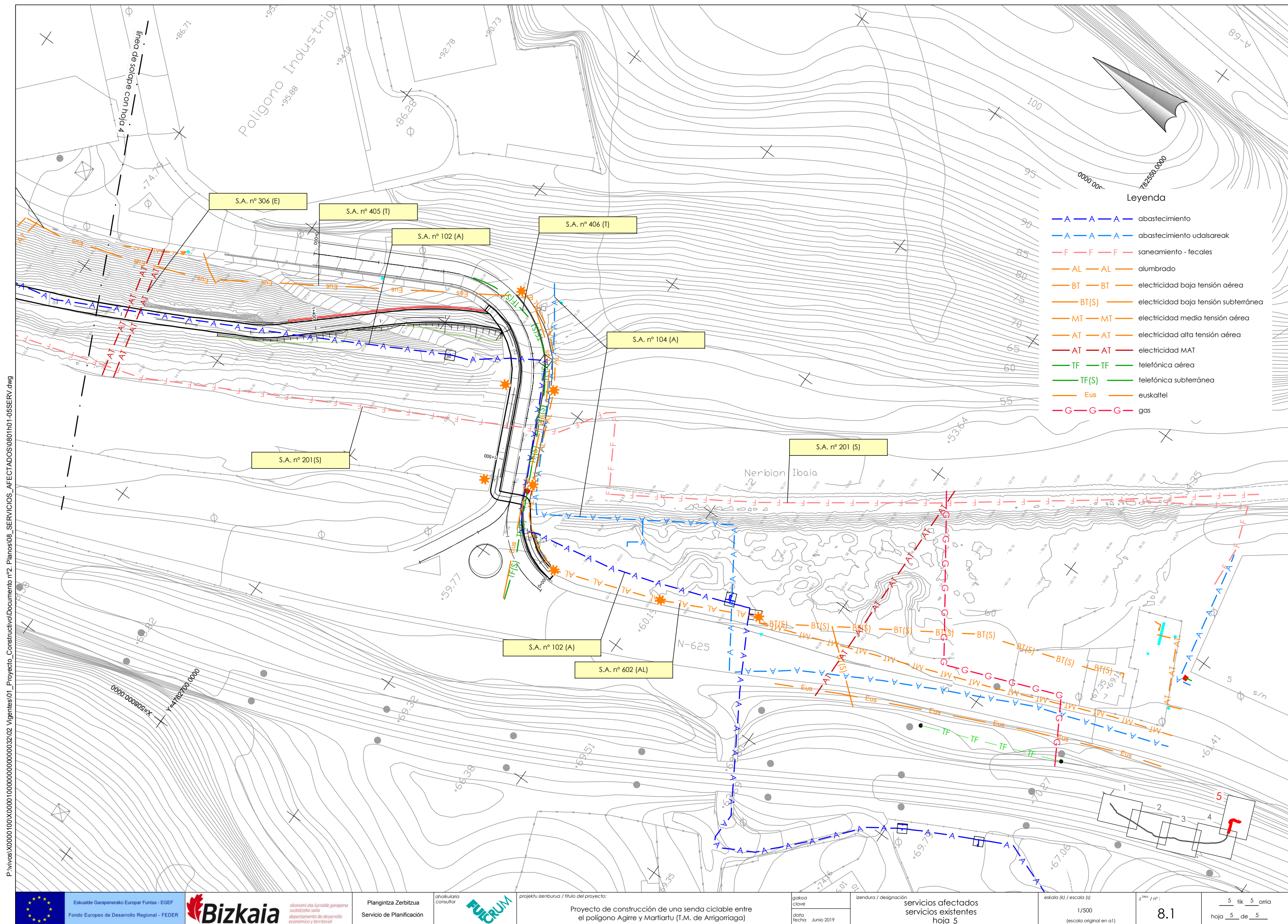


Leyenda

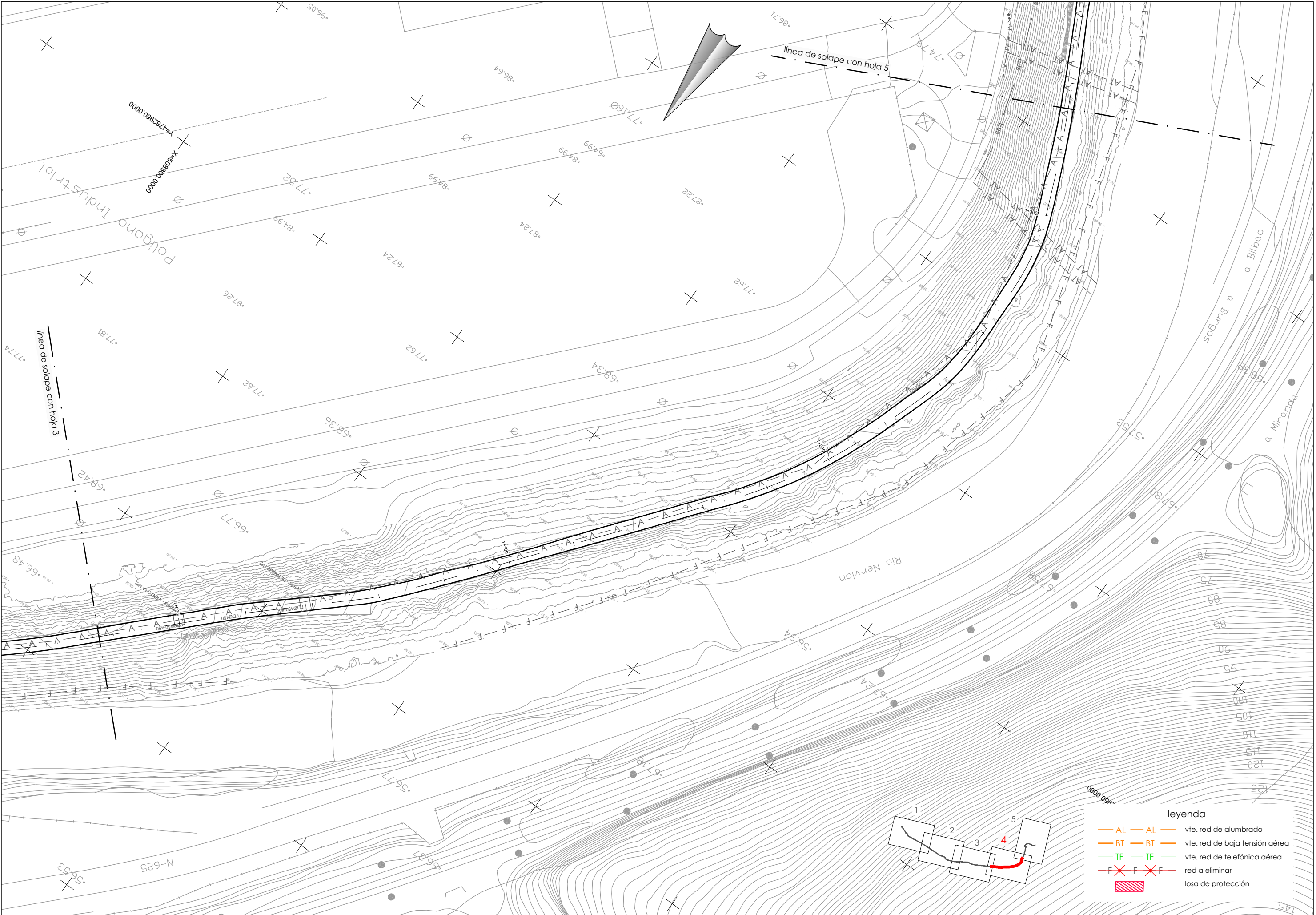
- Z.F.P. (Zona Flujo Preferente)
- D.P.H. (Dominio Público Hidráulico)
- Servidumbre de D.P.H. (5 m.)
- Avenida Q100 (100 años)
- Avenida Q500 (500 años)

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leyenda

AL

BT

TF

F

X

F

X

AL

BT

TF

F

X

F

X

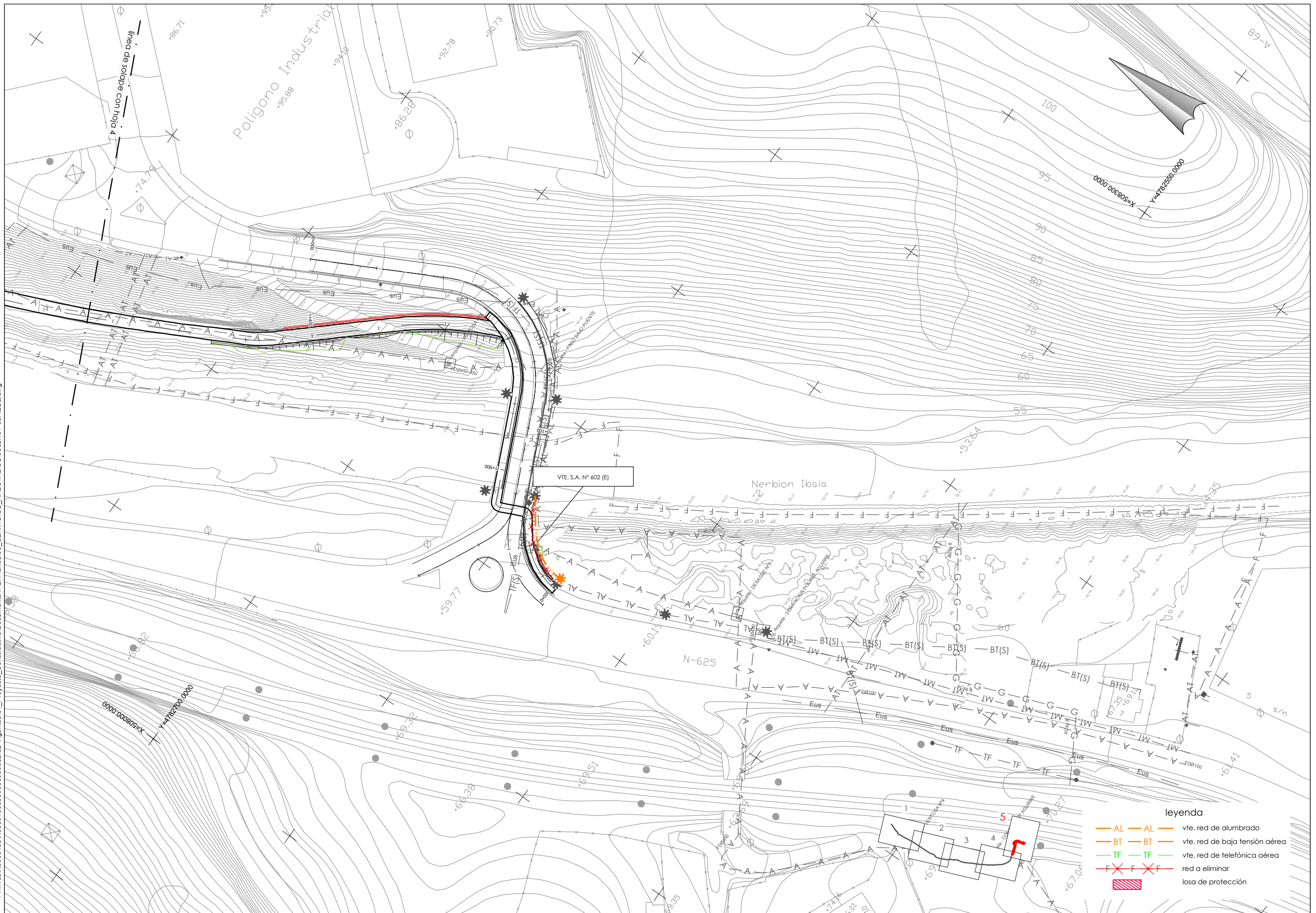
vte. red de alumbrado

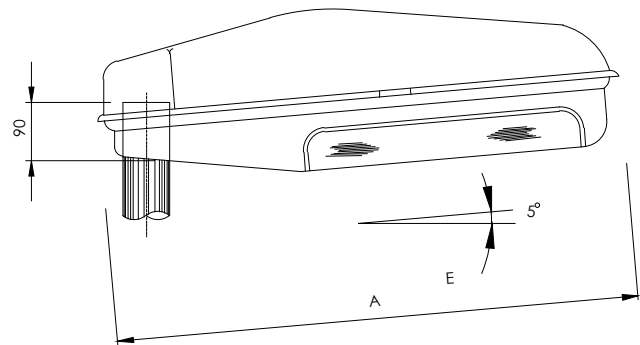
vte. red de baja tensión aérea

vte. red de telefónica aérea

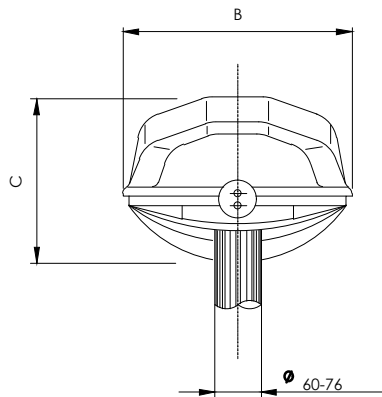
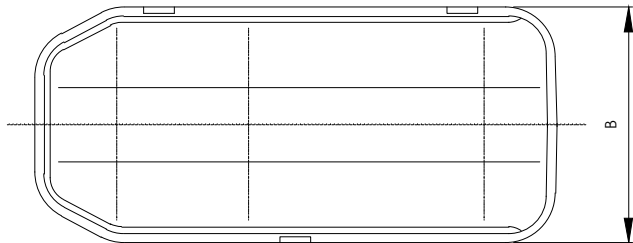
red a eliminar

losa de protección

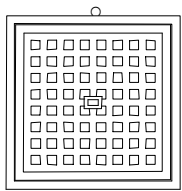




APARATO: LUMINARIA PARA LÁMPARAS DE 150W Y 250W

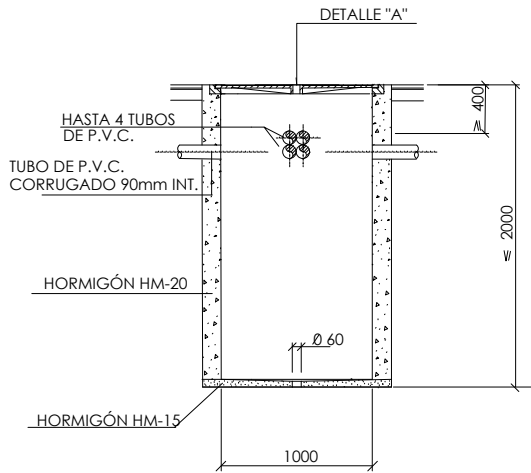


A= 743mm
B= 318mm
C= 205mm



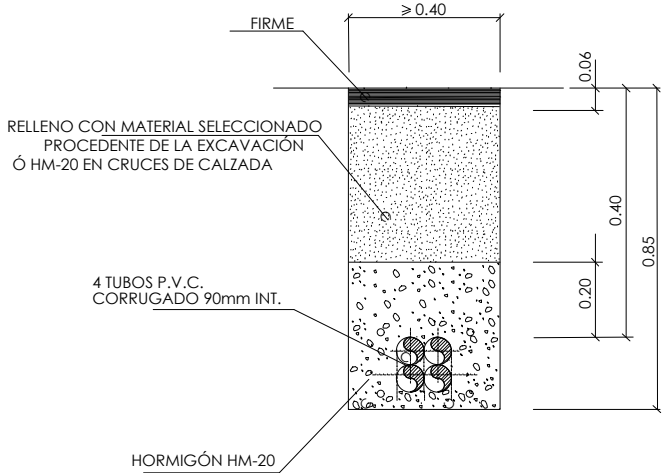
DETALLE "A"

ESCALA 1:25



ARQUETA PARA DERIVACIONES, ACOMETIDAS O CRUCE DE CALZADA

ESCALA 1:25



CANALIZACIÓN REFORZADA EN

ZANJA BAJO CALZADA

ESCALA 1:10

DISPOSICIÓN TIPO EN TERRAPLÉN

DISPOSICIÓN TIPO EN CUNETA DE DESMONTE, SIN BERMA

DISPOSICIÓN TIPO EN CUNETA
DE DESMONTE, CON BERMA

CIMENTACIÓN DE COLUMNA

BASE DE COLUMNA

DIMENSIONES DE LAS CIMENTACIONES Y PERNOS DE ANCLAJE		
ALTURA (m)	10	12
H (mm)	1.000	1.200
A (mm)	800	
L (mm)	500	700
MFTRICA	M-24	

COLUMNA (TIPO AM-10)

PLACA DE ASIENTO

-ACERO A-360-B SEGÚN UNE 36.080 o P.R.F.V. SEGÚN PLIEGO DE CONDICIONES.
-CALCULO DE CARGAS SEGÚN UNE 72.406 Y MV-101
-PROTECCIÓN SUPERFICIAL DE GALVANIZADO EN CALIENTE ESP. MIN.²450gr./m SEGÚN UNE 37.501

H(m)	A	B	C	D	e	F	G	K	L	N	P	R	S	T	U	V	q
10	-	440	140	60	-	285	400	50	25	50	200	-	150	37	133	30	-
12	-	440	140	60	-	285	400	50	25	50	200	-	150	37	133	30	-
14	-	440	140	60	-	285	400	50	25	50	200	-	150	37	133	30	-

LAS COTAS "A","e","q" QUEDARÁN DEFINIDAS SEGÚN NORMA EN-40.2
LA COTA "j d" OBEDECE A LA NORMA EN-40.2

DETALLE DE CONEXIONES EN BASE DE COLUMNA

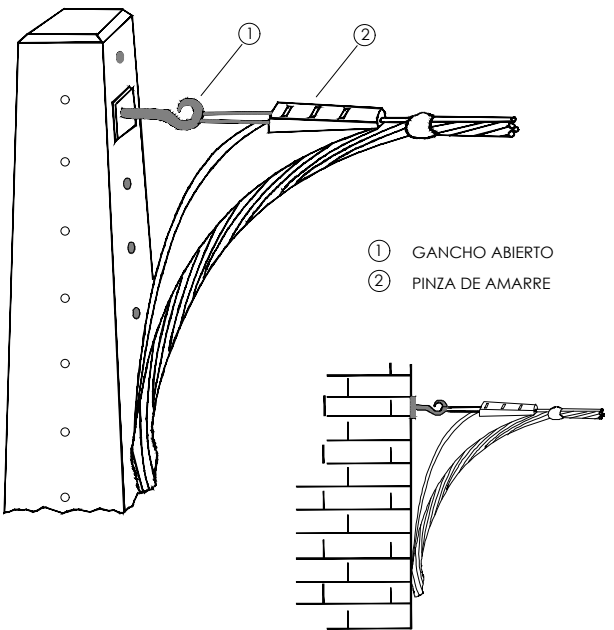
CAJA DE DERIVACIÓN TIPO EN BASE DE COLUMNA

DETALLE "A"

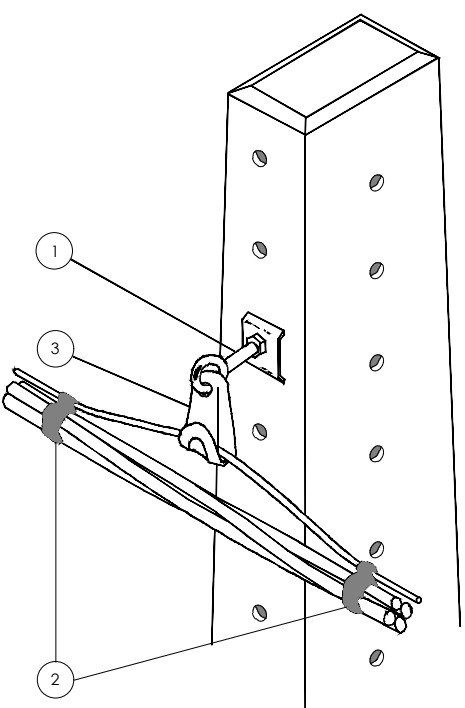
DETALLE "B"

LINEAS AEREAS BT

CONJUNTO AMARRE CON PINZA Y GANCHO

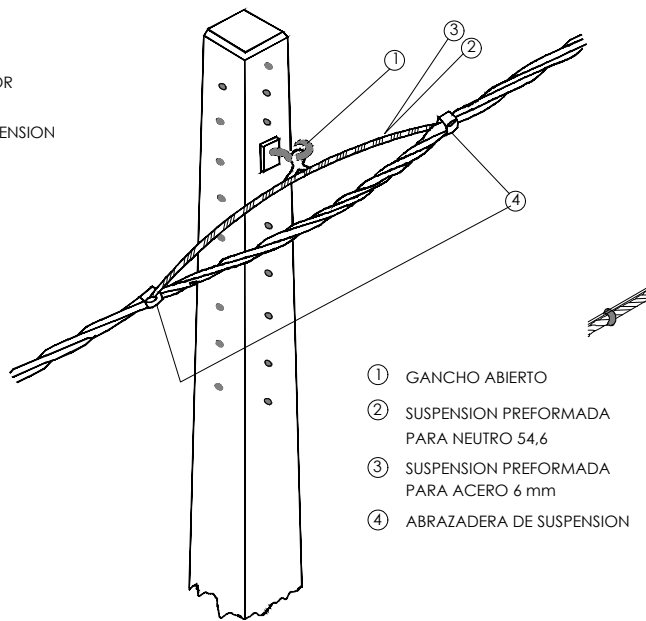


SOPORTE ALINEACION SOBRE APOYO



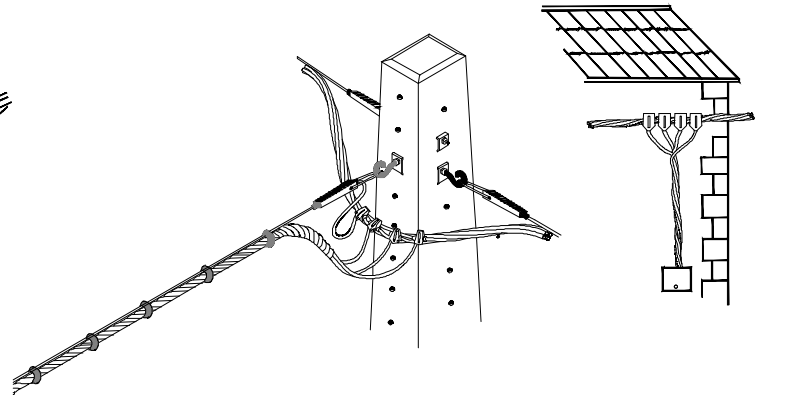
- 1 GANCHO ABIERTO
- 2 PORTANTE DE FIADOR PLASTIFICADO
- 3 ABRAZADERAS SUSPENSION

SOPORTE EN ALINEACION SOBRE APOYO

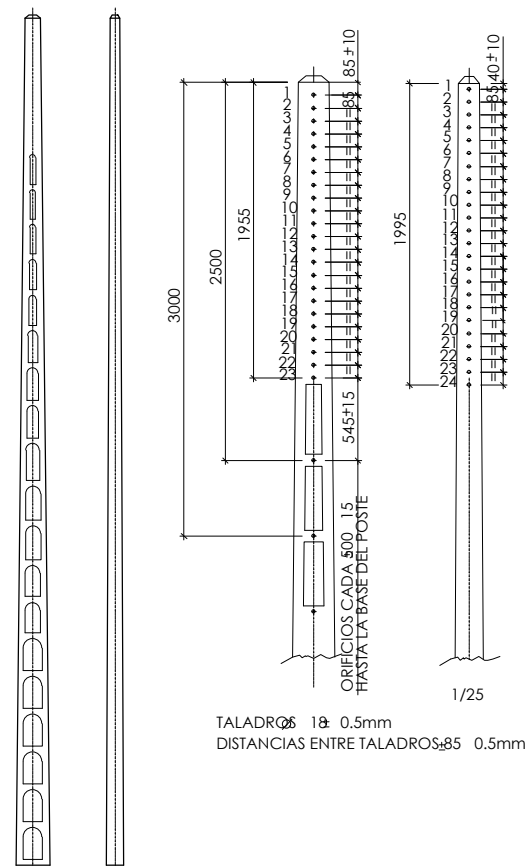


- ① GANCHO ABIERTO
- ② SUSPENSION PREFORMADA PARA NEUTRO 54,6
- ③ SUSPENSION PREFORMADA PARA ACERO 6 mm
- ④ ABRAZADERA DE SUSPENSION

DERIVACION EN T SOBRE POSTE

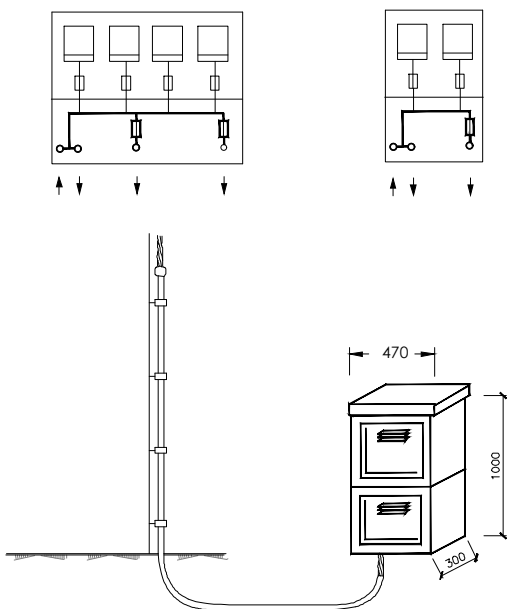


APOYOS DE HORMIGON HV-UNESA
(TIPOS SELECCIONADOS)



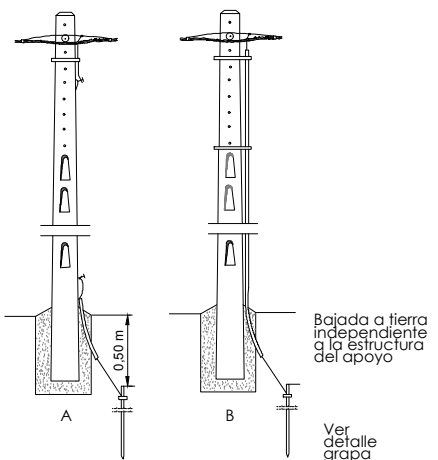
TALADROS $\phi 18 \pm 0.5\text{mm}$
DISTANCIAS ENTRE TALADROS $\pm 85 \pm 0.5\text{mm}$

ARMARIO INTEMPERIE DE PROTECCION Y MEDIDA

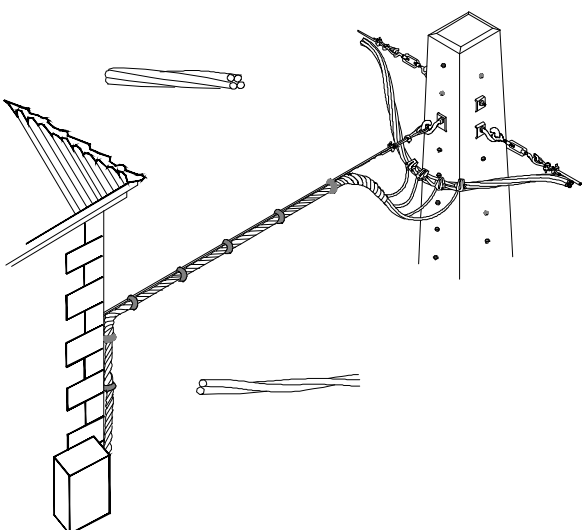


ARMARIO	a (mm)	CONTADORES
2R+2M	470	2
4R+4M	750	4

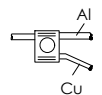
TOMA DE TIERRA NEUTRO



ACOMETIDA AEREA SOBRE FACHADA

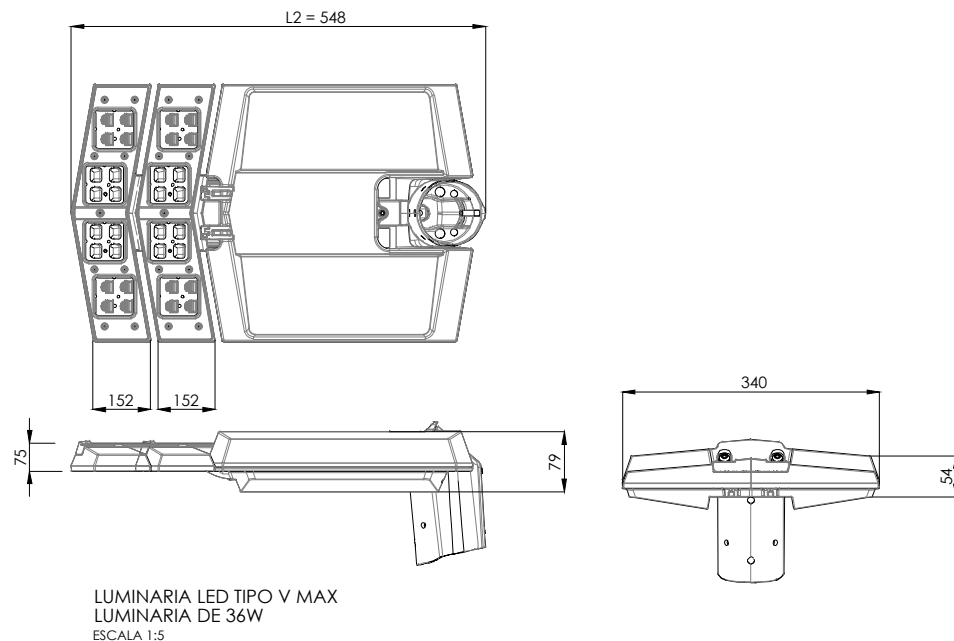
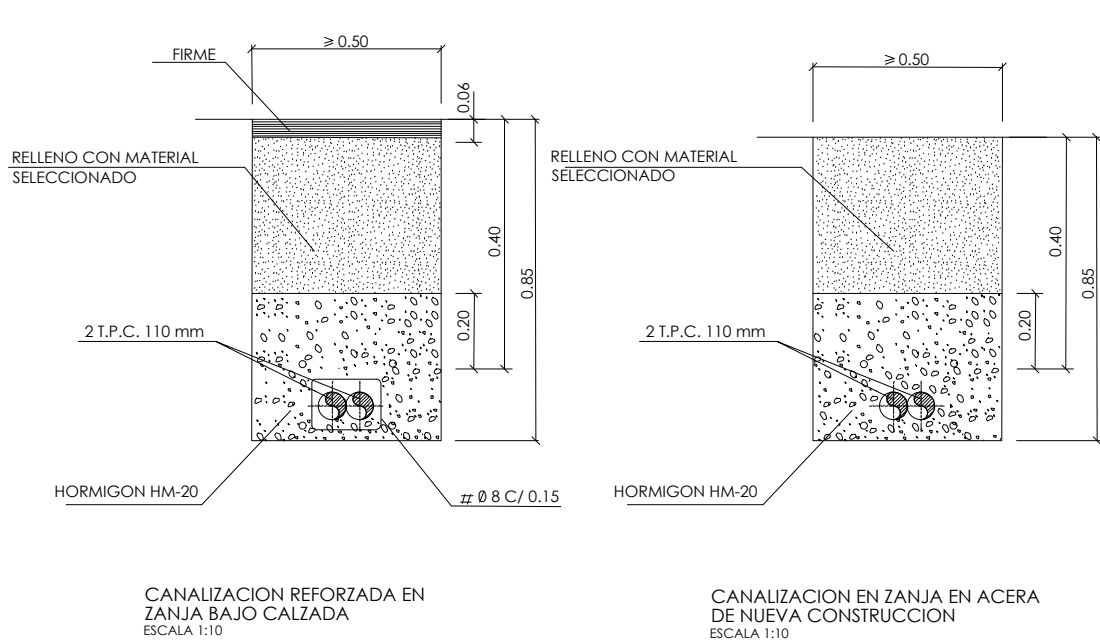
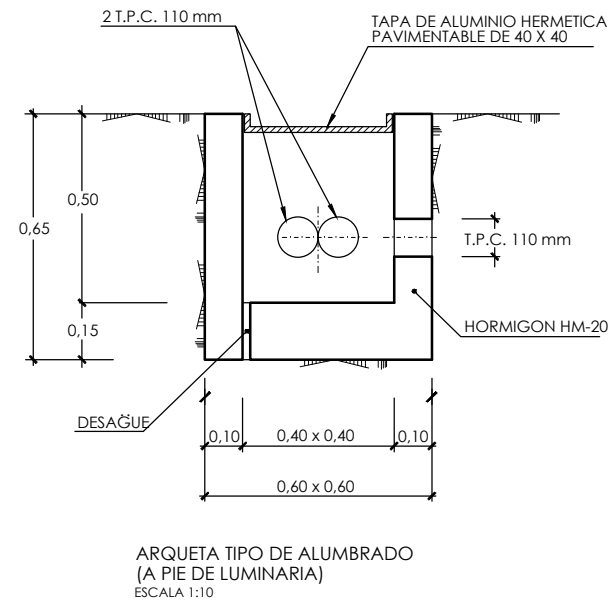
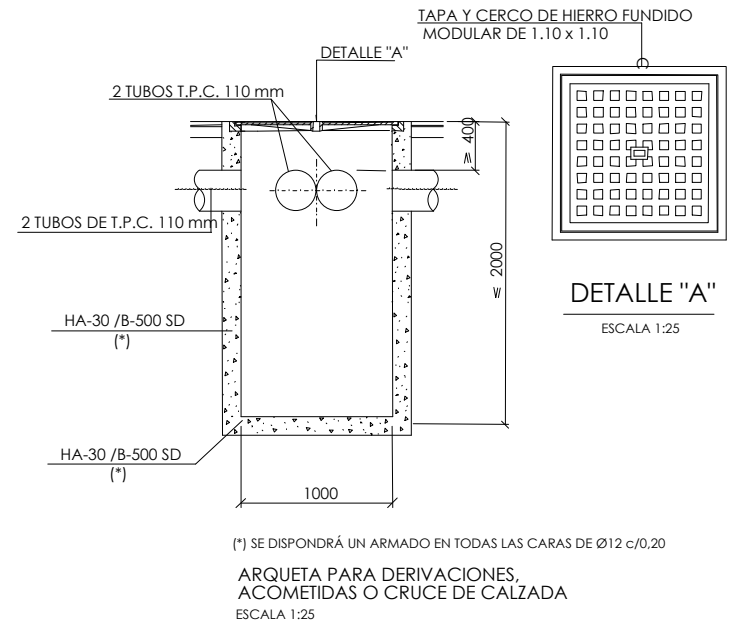
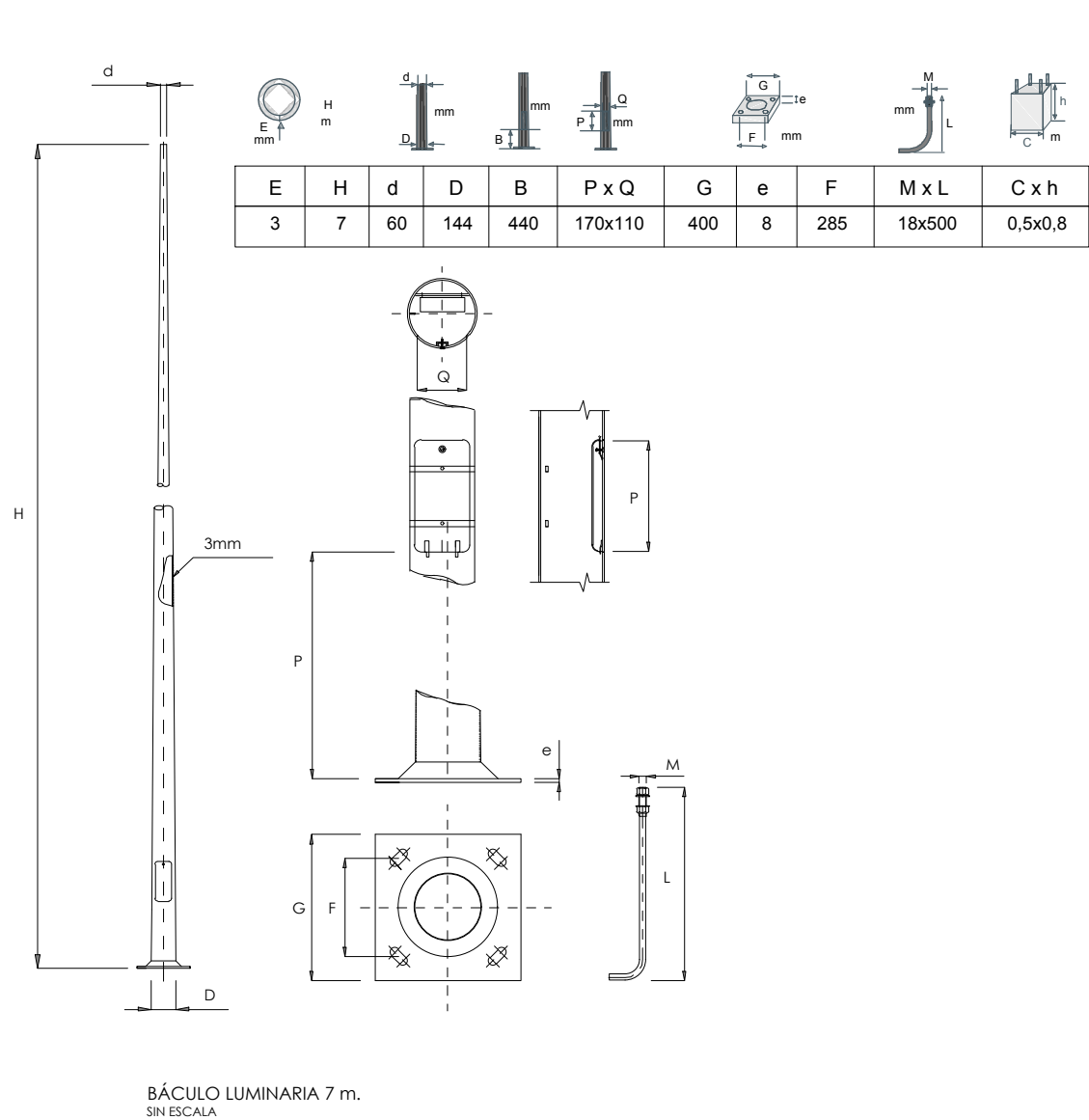


DETALLE
°GRAPA

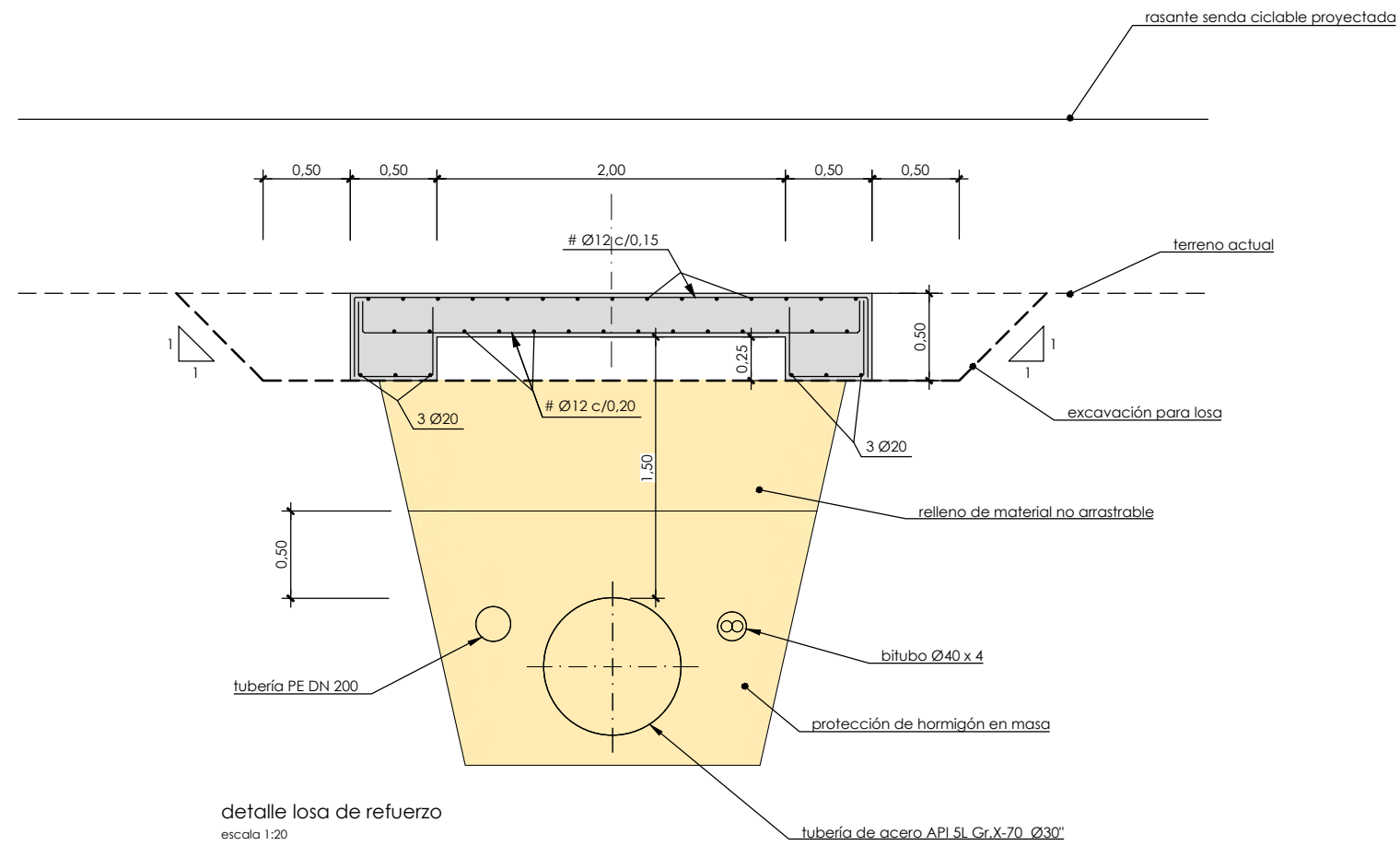


APOYOS DE HORMIGON HV UNESA								
DENOMINACION	ALTURA (m)	DIMENSIONES CABEZA (mm)	ESFUERZOS					
			NOMINAL (daN)	COEF. SEG.	SECUND. (daN)	COEF. SEG.	TORSION (daNm)	COEF. SEG.
HV-160-9	9	145x110	160	2,5	100	2,5	----	----
HV-160-11	11		160	2,5	100	2,5	----	----
HV-250-9	9		250	2,5	160	2,5	----	----
HV-250-11	11		250	2,5	160	2,5	----	----
HV-250-13	13		250	2,5	160	2,5	----	----
HV-400-9	9	200x140	400	2,5	250	2,5	----	----
HV-400-11	11		400	2,5	250	2,5	----	----
HV-400-13	13		400	2,5	250	2,5	----	----
HV-630-9	9		630	2,5	360	2,5	----	----
HV-630-11	11		630	2,5	360	2,5	----	----
HV-630-13	13	255x170	630	2,5	360	2,5	----	----
HV-630-15	15		630	2,5	360	2,5	----	----
HV-1000-9	9		1000	2,5	400	2,5	600	----
HV-1000-11	11		1000	2,5	400	2,5	600	----
HV-1000-13	13		1000	2,5	400	2,5	600	----
HV-1000-15	15		1000	2,5	400	2,5	600	----
Total apoyos de hormigon HV.....			16					

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CARACTERÍSTICAS DE LOS MATERIALES Y COEFICIENTES DE SEGURIDAD				
ACERO HORMIGON	TIPO Y CARACTERÍSTICAS RESISTENTES		CONTROL DE MATERIALES Y COEFICIENTE DE SEGURIDAD	
	DE LIMPIEZA ESTRUCTURAL	HM-20/P/35/I HA-25/P/25/IIa	REDUCIDO NORMAL	V _c =1,5
	PASIVO	B-500-SD	NORMAL	V _s =1,15
	CONTROL DE EJECUCION	NORMAL	COEFICIENTE DE MAYORACION DE ACCIONES	V _d =1,6



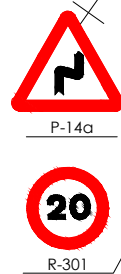
 losa de refuerzo proyectada

 zanja existente

Y=4783450.0000
X=598750.0000



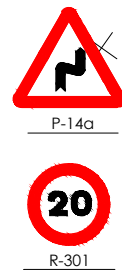
R-102 / S-810



P-14a

20

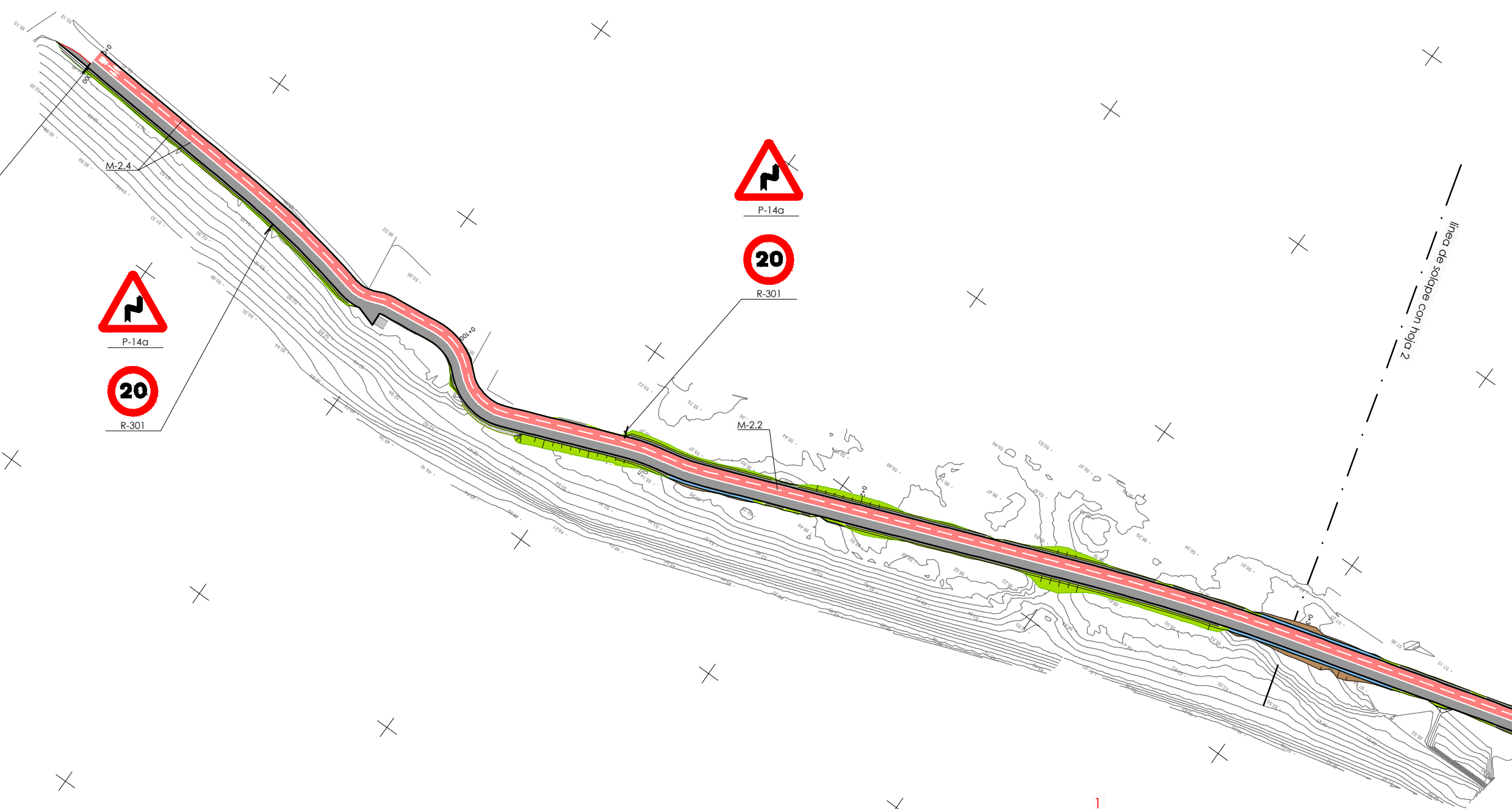
R-301



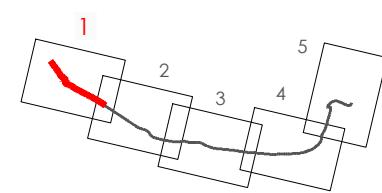
P-14a

20

R-301

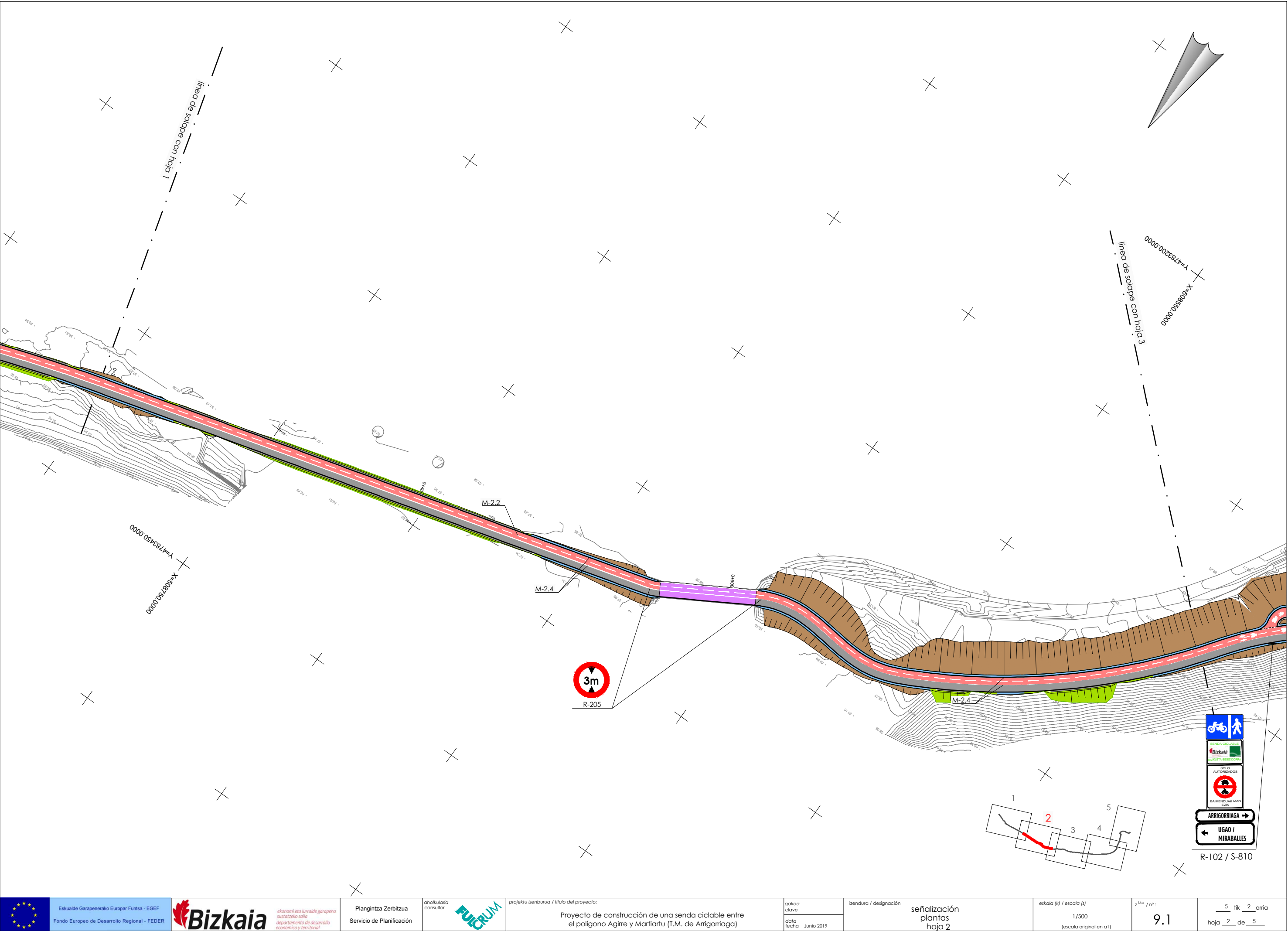


línea de solape con hoja 2

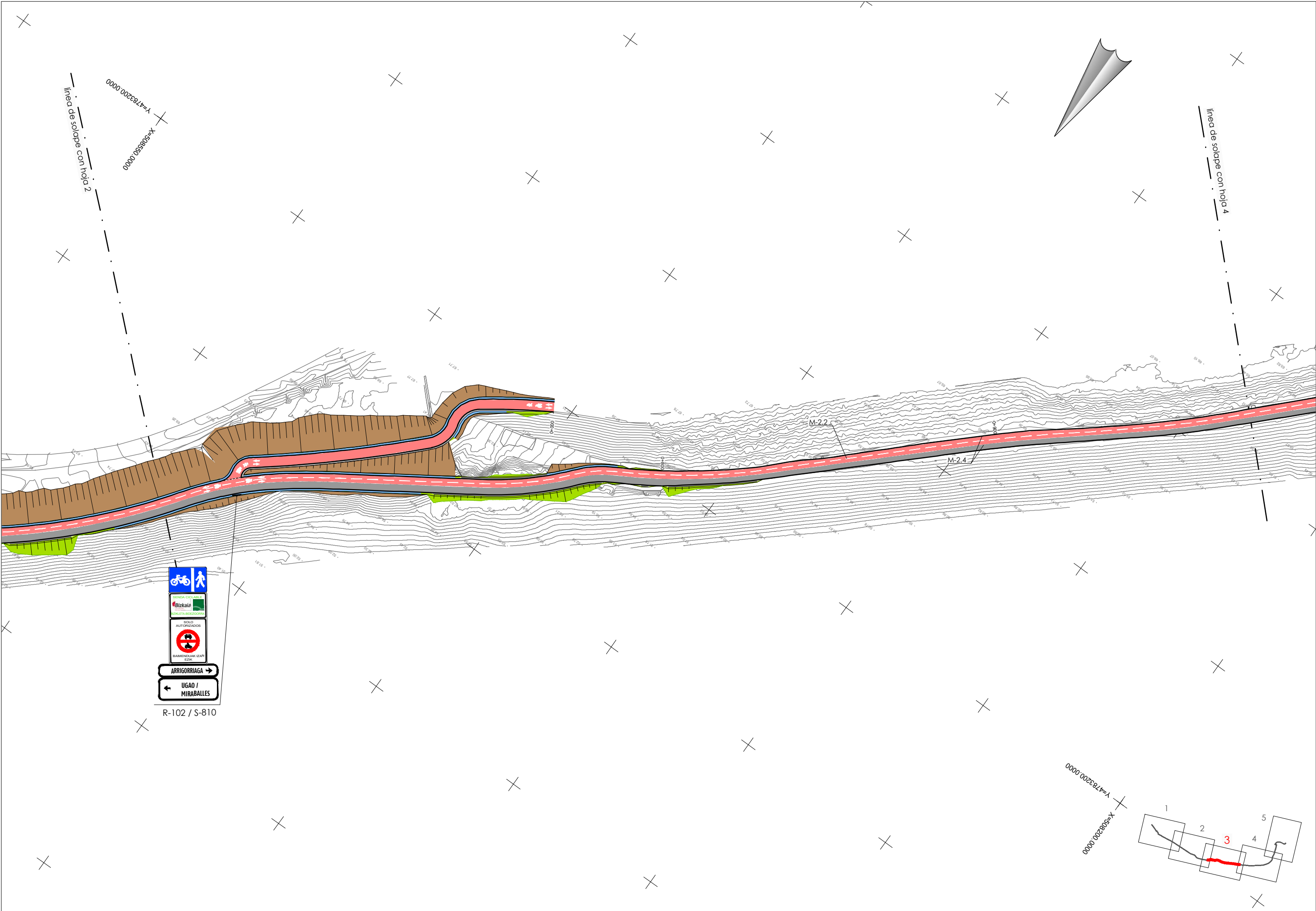


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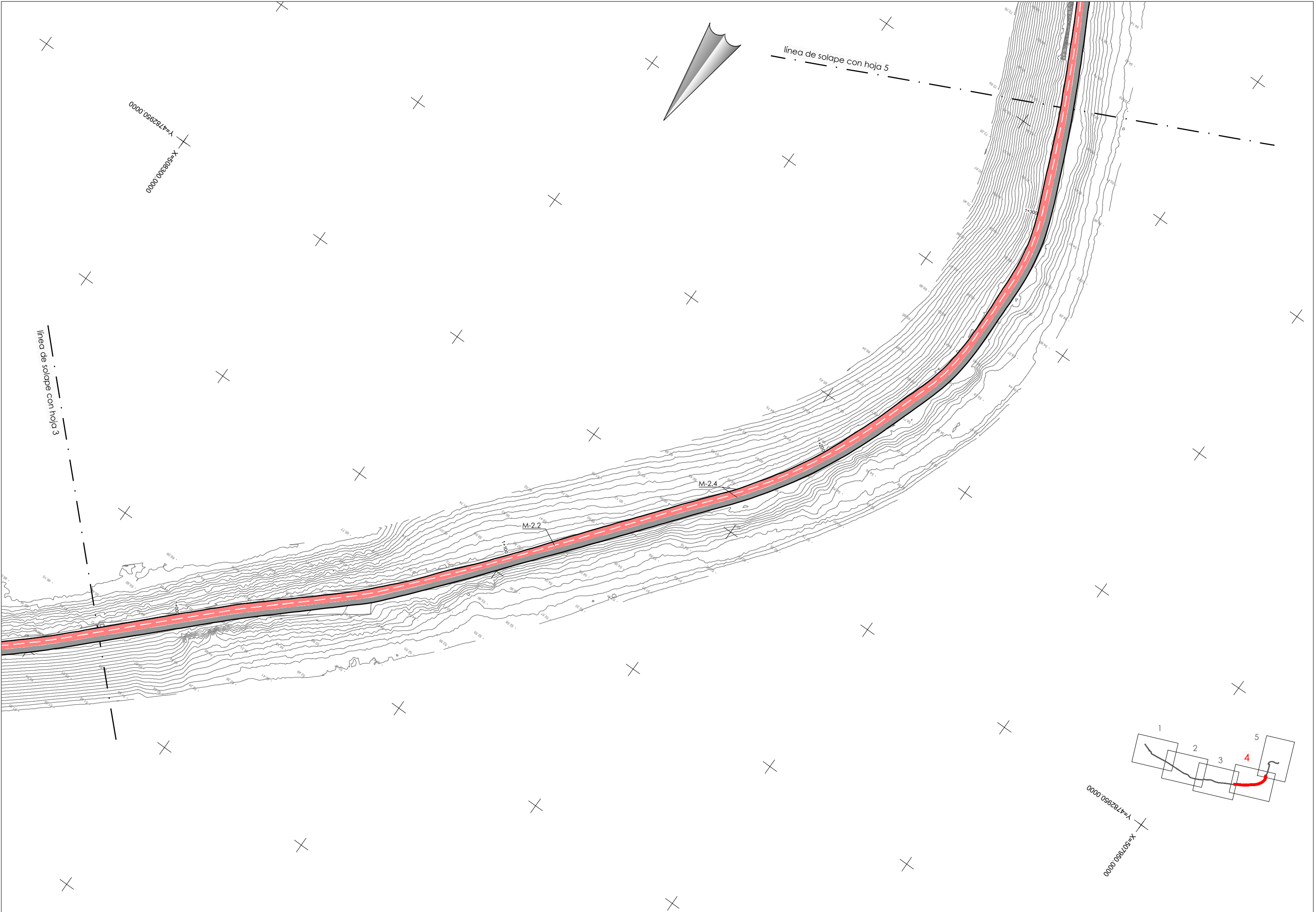
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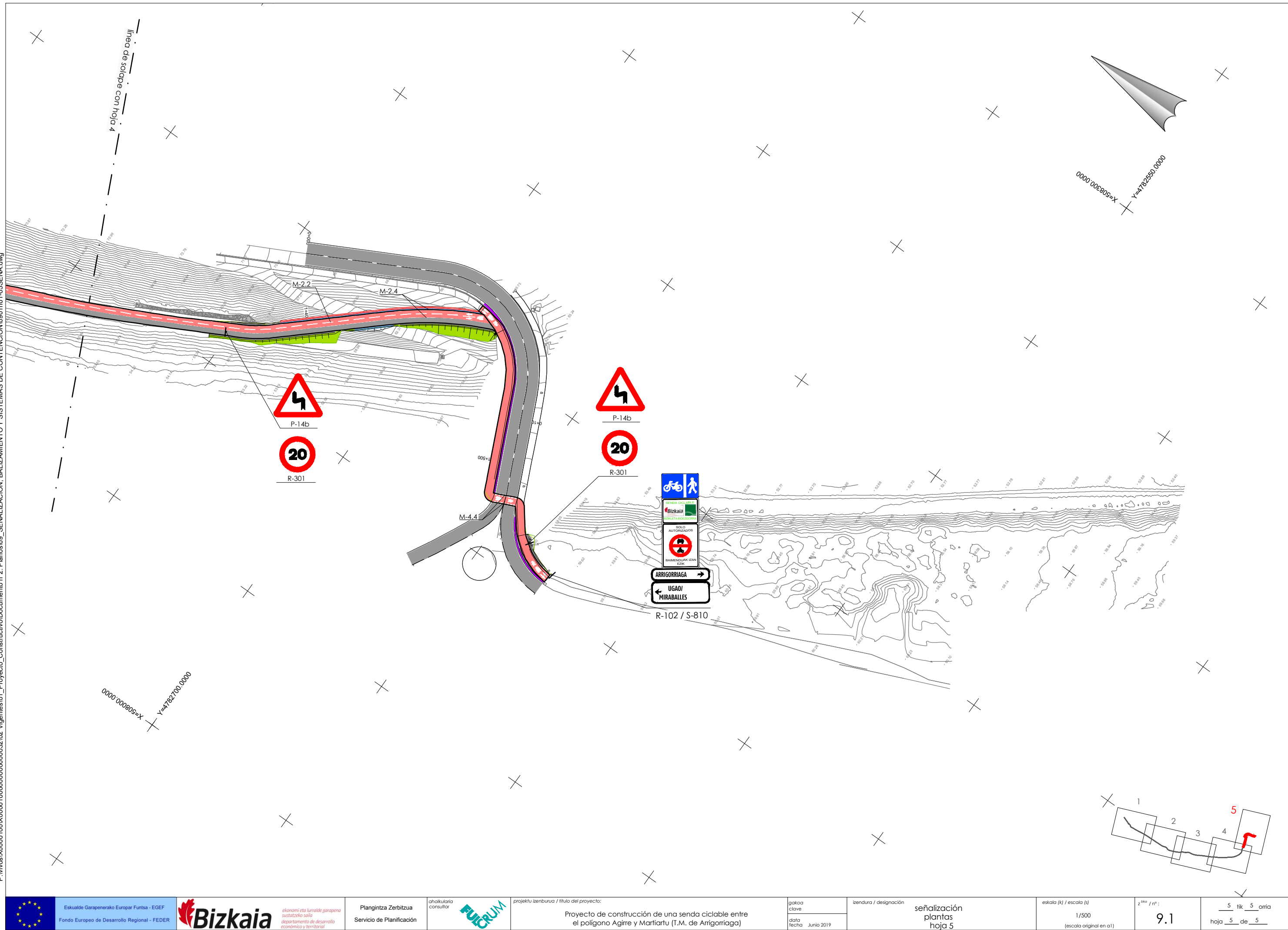
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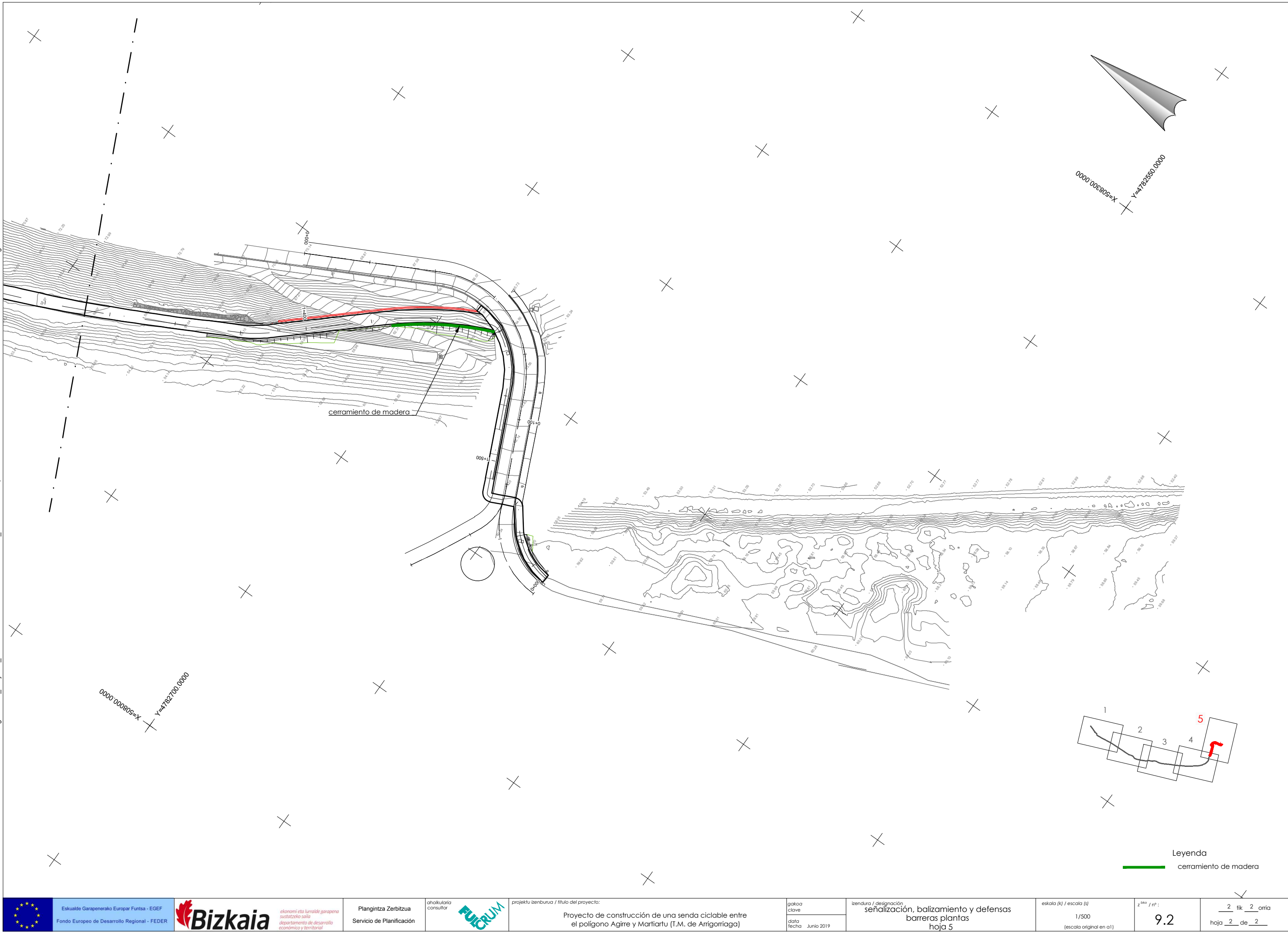
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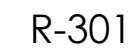
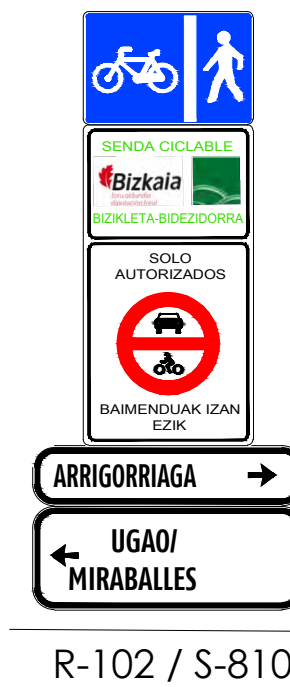
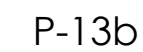
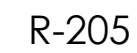
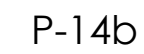
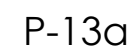


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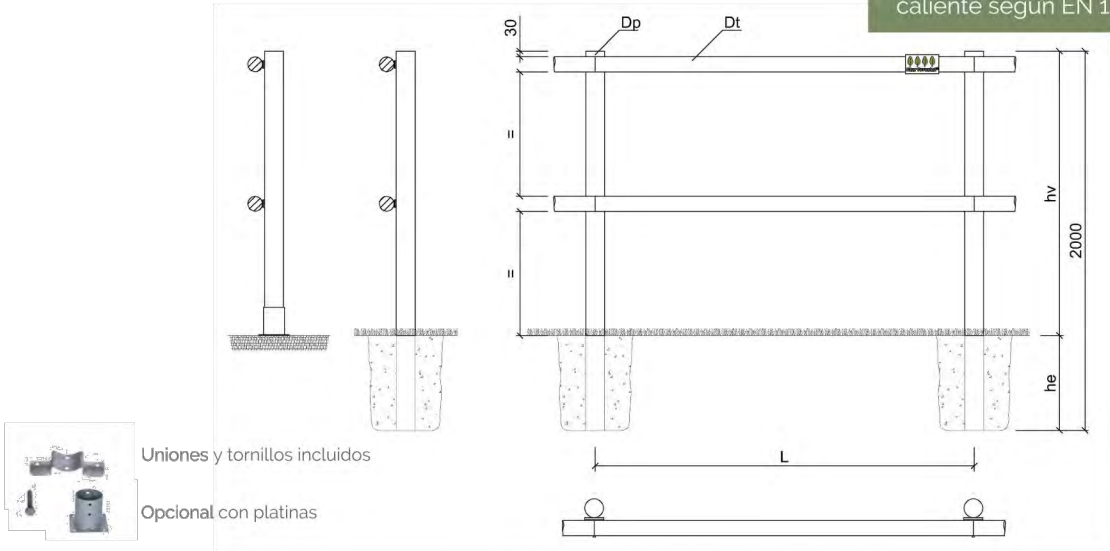
REF. PRODUCTO	Dp (mm)	Dt (mm)	L (m)	PLATINA
YTU2401	100	80	2	NO
YTU2402	100	80	2,5	NO
YTU2403	120	100	2	NO
YTU2404	120	100	2,5	NO
YTU2401P	100	80	2	SI
YTU2402P	100	80	2,5	SI
YTU2403P	120	100	2	SI
YTU2404P	120	100	2,5	SI

Calidad de los materiales

Madera
Pino del país torneado y tratado para clase de uso 4 según UNE335. Madera proveniente de explotaciones forestales sostenibles.

Tornillos
Platinas y Uniones: DIN 571: de acero galvanizado en caliente según EN 1461:2010.

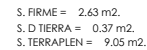
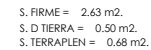
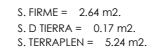
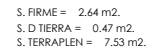
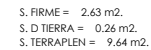
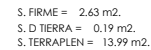
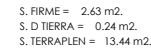
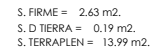
Uniones
De acero galvanizado en caliente según EN 1461:2010.

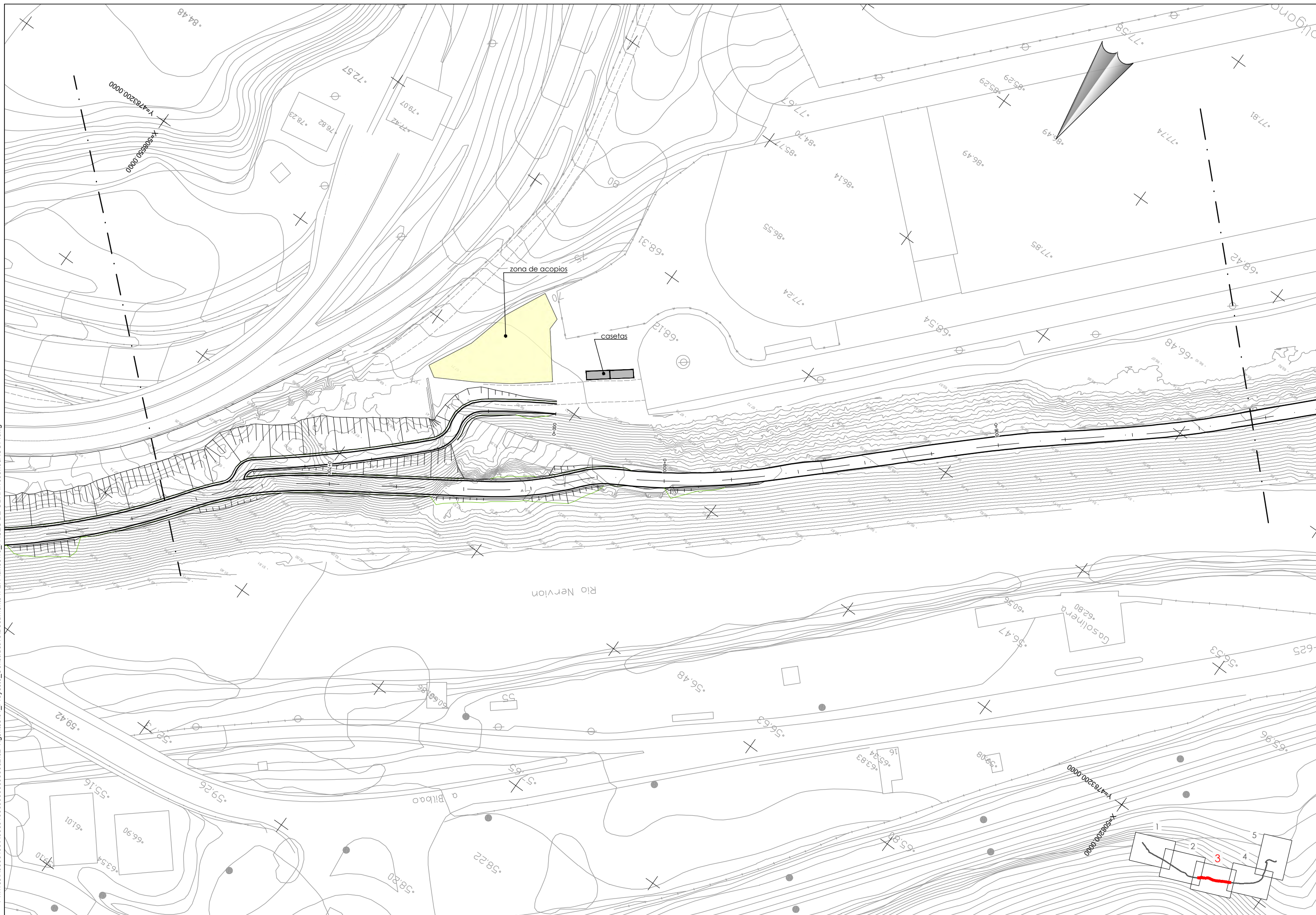


cerramiento tipo 1

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A compact, lightweight, general purpose LED area floodlight. With small body. LED converter configured for power reduction, effective 3 hours before and 5 hours after a calculated midnight, driving 36 LEDs at 500mA with asymmetrical 40° light distribution. IP66, IK08, Class I electrical. Body: die-cast aluminium (EN AC-44300). Light grey 150 sanded textured (close to RAL9006).. Enclosure: 4mm thick toughened glass. Reversible mounting stirrup supplied, optional spigot adaptors available separately for post top mounting. Complete with 4000K LED.

[illegible]

Technical drawing showing a cross-section of a drainage assembly. The assembly consists of a central PVC pipe (tubo de pvc corrugado 90mm int. S/N UNE 53.112) surrounded by concrete layers (hormigón HM-20 and hormigón HM-15). The top is covered by a cast iron cover and frame (tapa y cerco de hierro fundido modular de 500 X 500 mm.). The drawing includes dimensions: 0.40m height, 0.125m width, and 0.40m diameter.

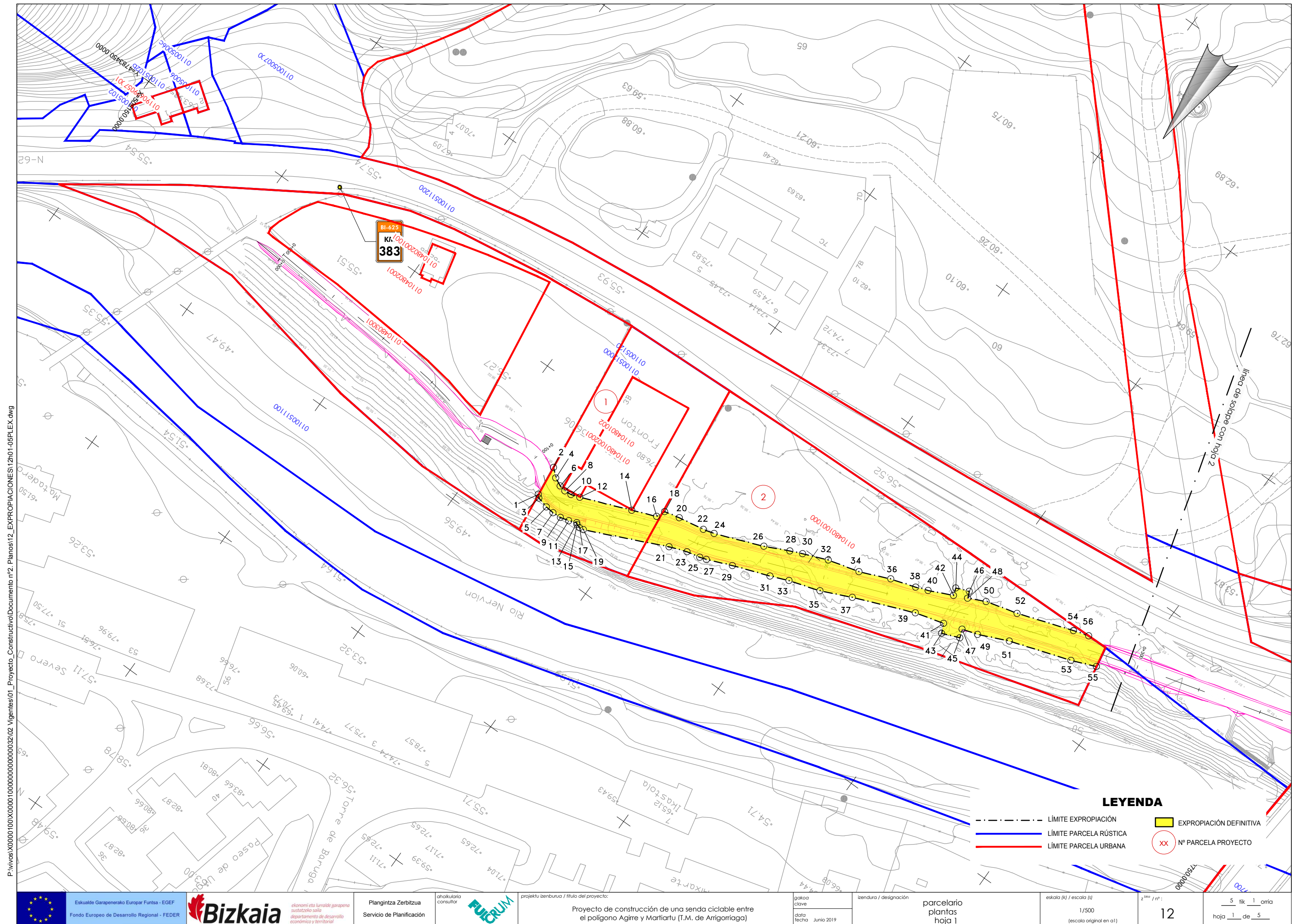
Diagrama de un sistema de medición de humedad en un muro. El sistema incluye una columna o báculo vertical que sostiene una tapa y marco de hierro fundido modular (500 X 500 mm). A la columna o báculo se conecta un conductor de cobre desnudo que pasa a través de un punto accesible conector paralelo. El conductor termina en una pica de tierra que se inserta en el muro. La altura total del sistema es de 2200 mm.

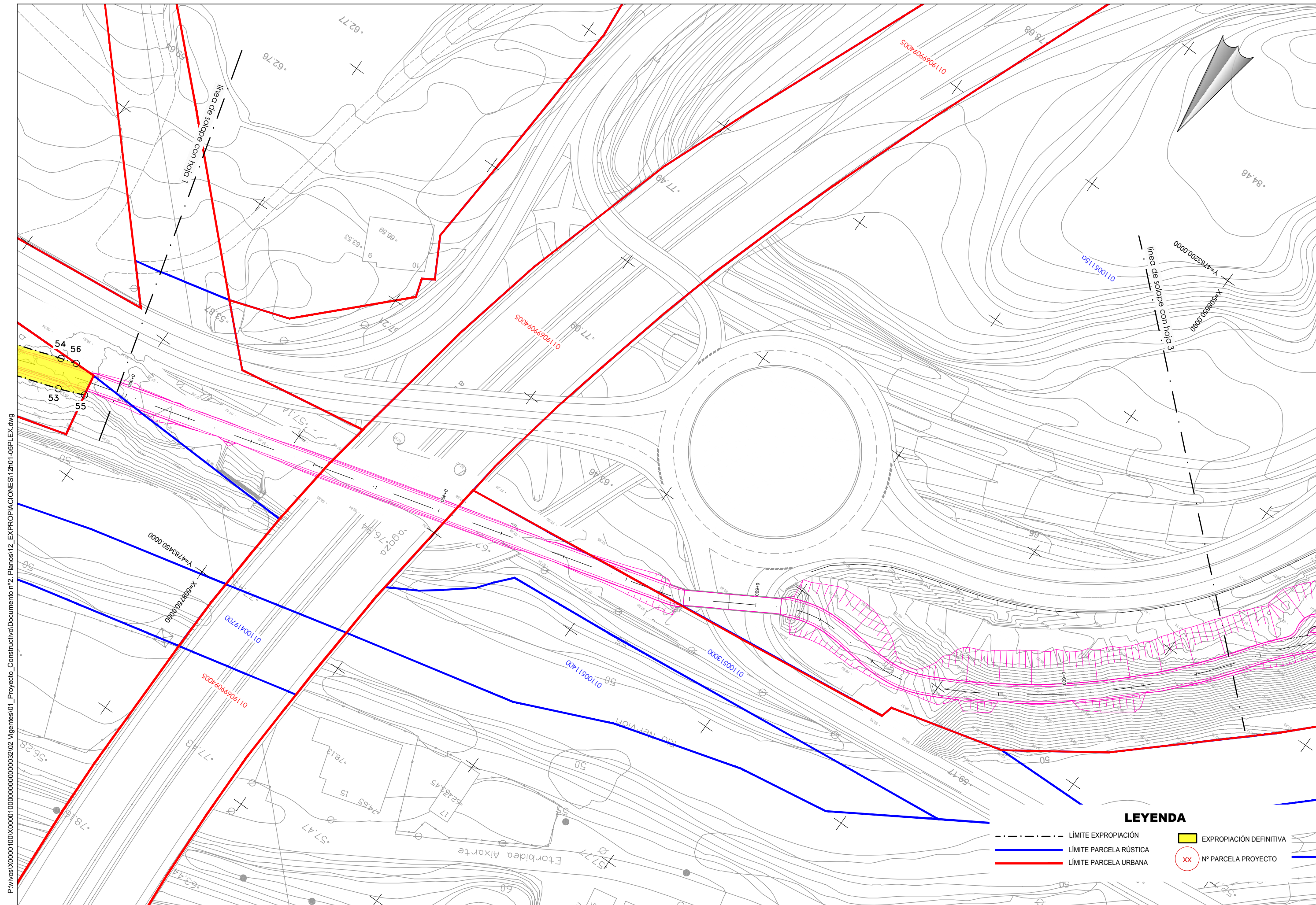
Technical drawing of a rectangular plate with a central hole and a T-shaped base. The plate has a width of 430 and a height of 370. The base has a width of 370 and a height of 120. The total height of the assembly is 396. The plate has a central hole with a diameter of 52.

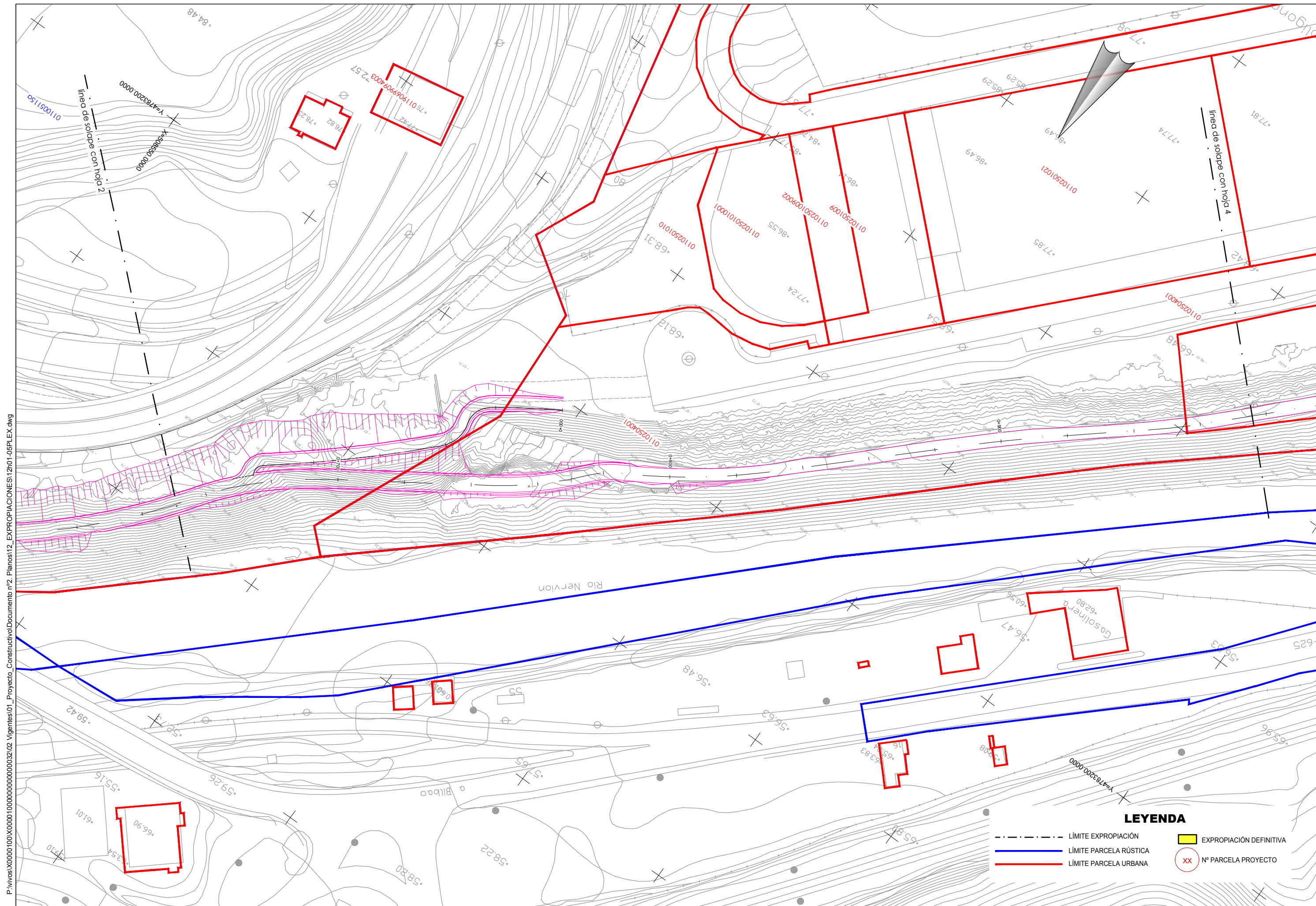
Diagrama de un pozo de perforación con las siguientes especificaciones:

- Repleno:** relleno con material seleccionado procedente de la excavación.
- Capa superior:** arena caliza apisonada.
- Alturas:**
 - Capa superior: 0.20
 - Capa inferior: 0.40
 - Altura total: ≤ 1.00
- Diámetro:** 0.40
- Detalle:** hasta 5 tubos p.v.c. corrugado 90mm inf.
- Suelo:** suelo mejorado.

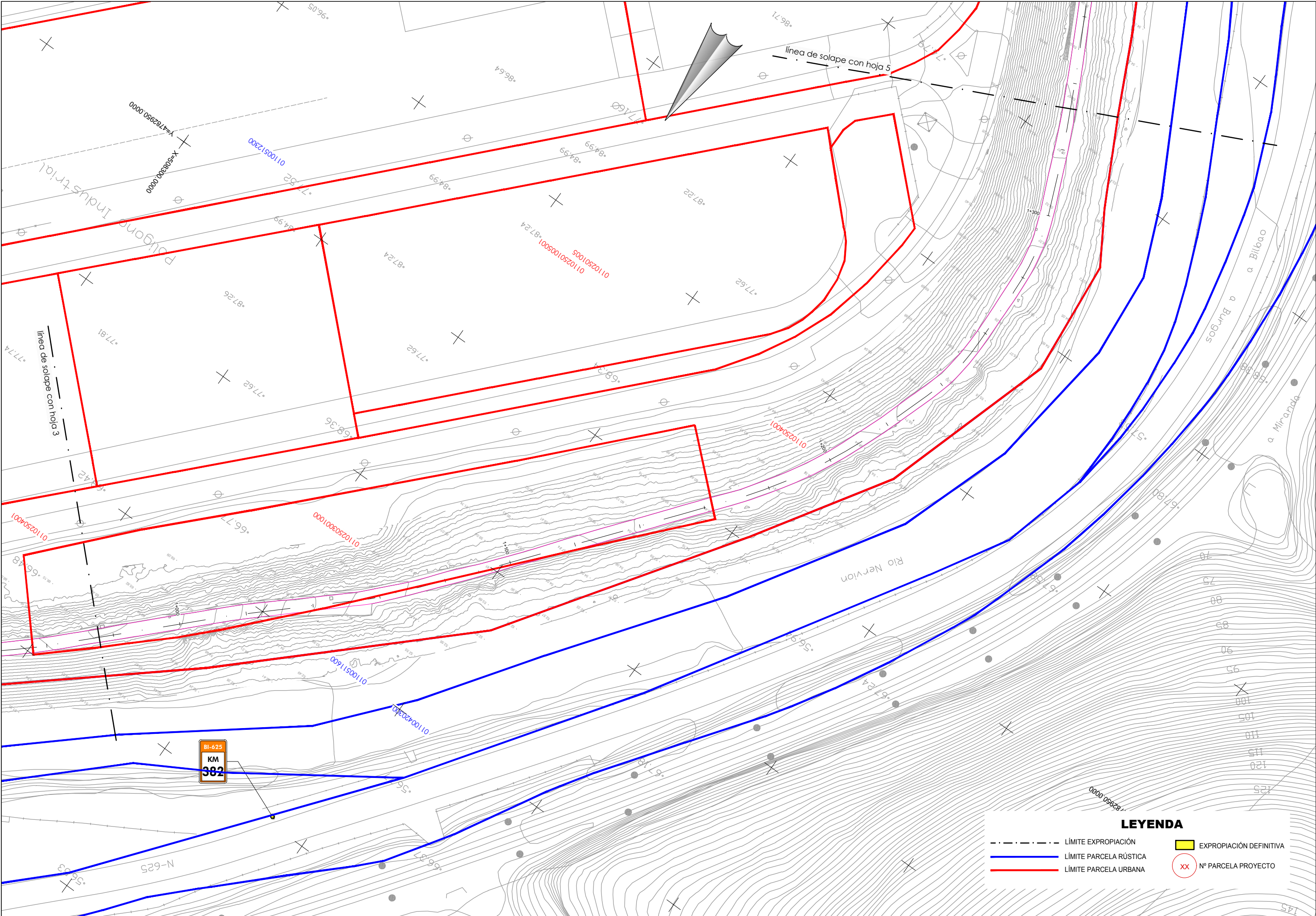
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LEYENDA

- LÍMITE EXPROPIACIÓN
- LÍMITE PARCELA RÚSTICA
- LÍMITE PARCELA URBANA
- EXPROPIACIÓN DEFINITIVA
- Nº PARCELA PROYECTO

