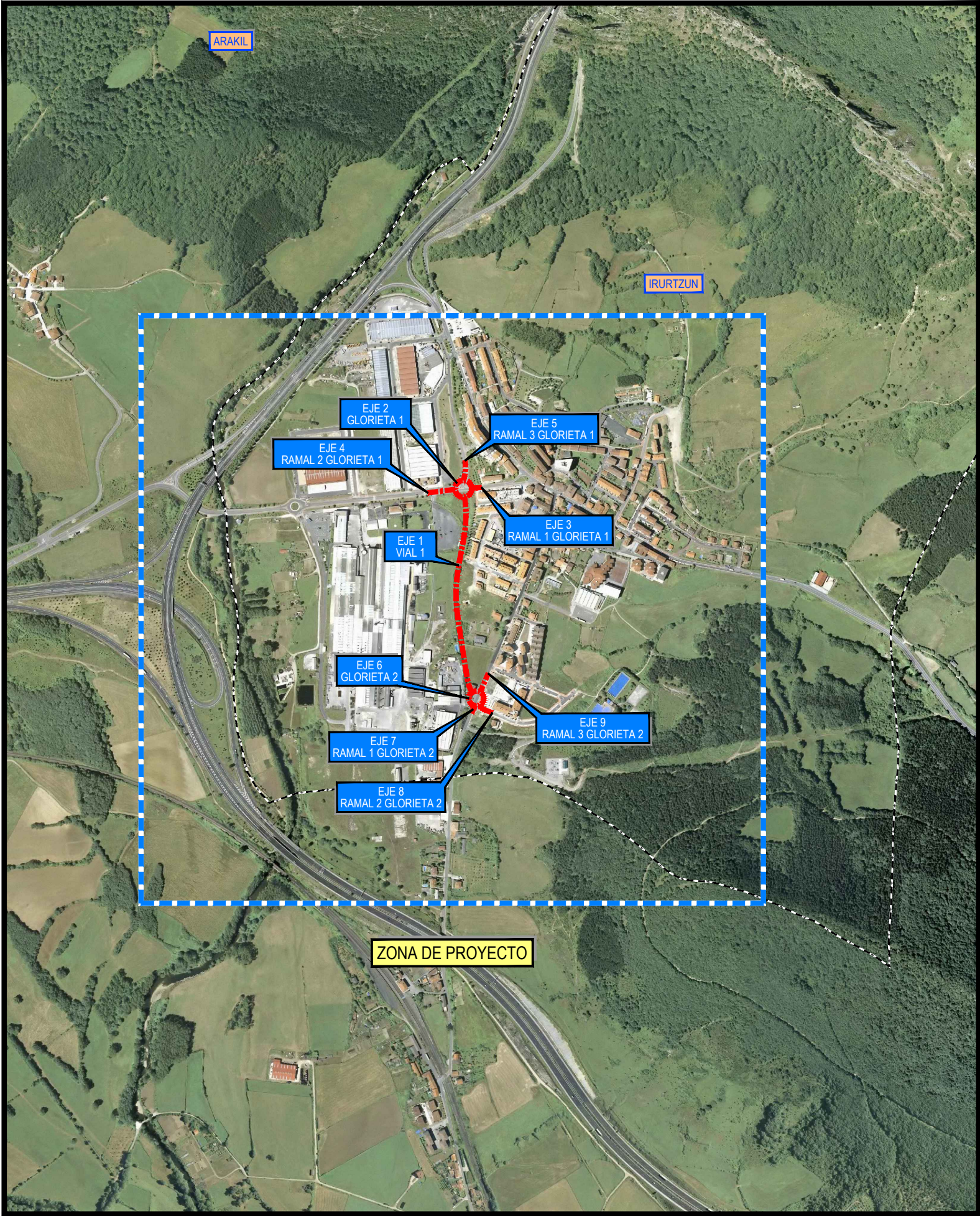
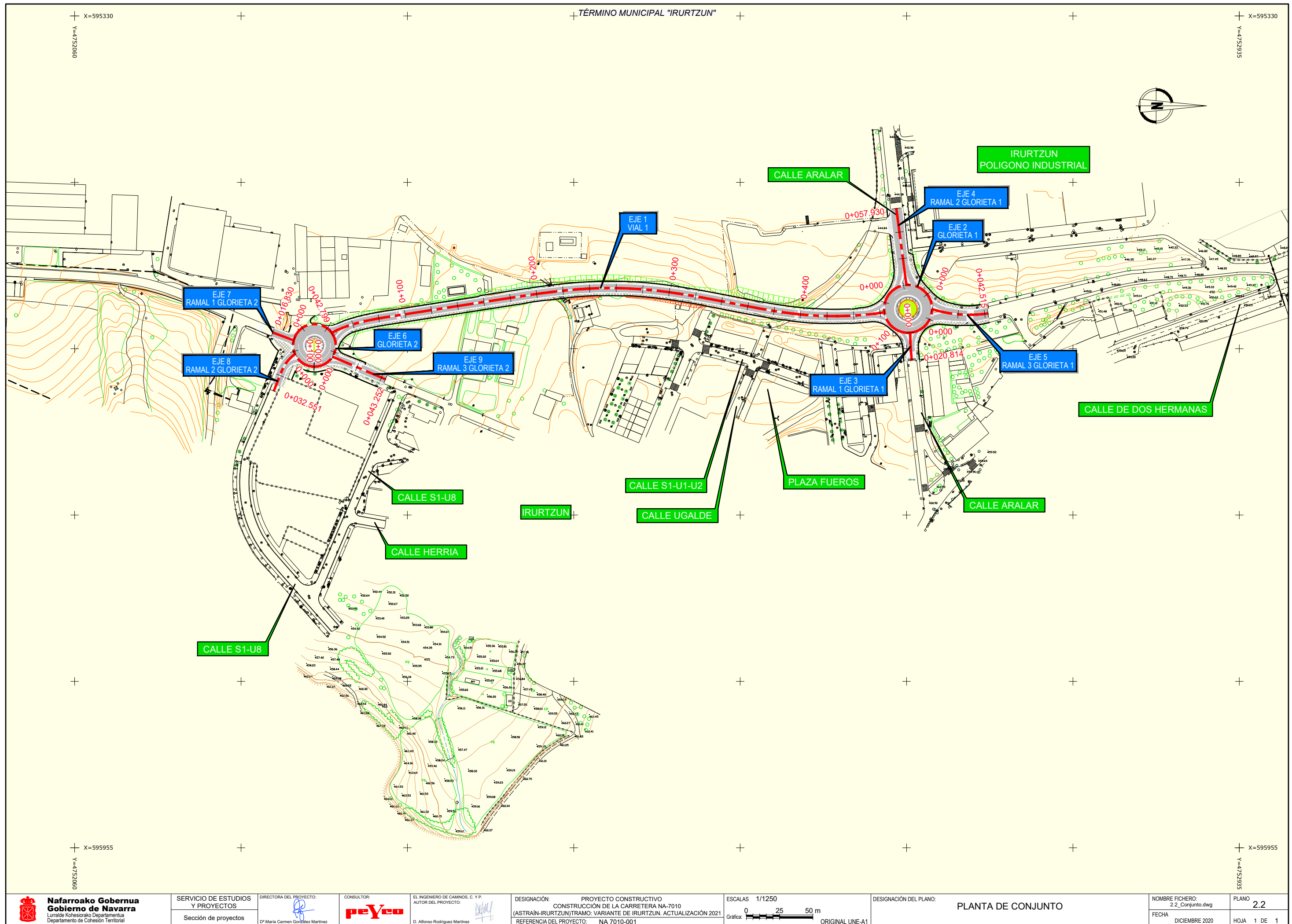
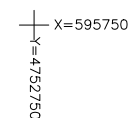
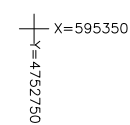




ÍNDICE DE PLANOS		
NÚMERO	DESIGNACIÓN	Nº DE HOJAS
2.1	SITUACIÓN E ÍNDICE DE PLANOS	1
2.2	PLANO DE CONJUNTO	1
2.3	PLANTA DE TRAZADO	1
2.4	PLANTA GENERAL	
	2.4.1 SOBRE CARTOGRAFÍA	1
	2.4.2 SOBRE ORTOFOTO	1
2.5	PERFILES LONGITUDINALES	3
2.6	SECCIONES TIPO	2
	2.6.1 SECCIONES TIPO GLORIETAS, VIALES Y DETALLES	2
	2.6.2 PAVIMENTOS	2
2.7	PERFILES TRANSVERSALES	7
2.8	DRENAJE	
	2.8.1 PLANTA	2
	2.8.2 PERFIL LONGITUDINAL	1
	2.8.3 OBRAS DE DRENAJE TRANSVERSALES	2
	2.8.4 DETALLES	1
2.9	SEÑALIZACIÓN, BALIZAMIENTO Y DEFENSAS	
	2.9.1 PLANTA	2
	2.9.2 DETALLES	4
	2.9.3 CARTELES	1
2.10	SOLUCIONES PROPUESTAS AL TRÁFICO	
	2.10.1 FASE 1	2
	2.10.2 FASE 2	1
	2.10.3 FASE 3	1
	2.10.4 FASE 4a	1
	2.10.5 FASE 4b	1
2.11	ILUMINACIÓN	
	2.11.1 PLANTA	2
	2.11.2 DETALLES	5
2.12	SERVICIOS AFECTADOS	
	2.12.1 GAS	1
	2.12.2 RED DE SANEAMIENTO Y ABASTECIMIENTO	5
	2.12.3 TELEFONÍA	3
	2.12.4 ALUMBRADO	2
	2.12.5 LÍNEAS ELÉCTRICAS	11
2.13	ORDENACIÓN ECOLÓGICA Y PAISAJÍSTICA	
	2.13.1 REVEGETACIÓN Y MEDIDAS CORRECTORAS PLANTA	2
	2.13.2 REVEGETACIÓN GLORIETAS	2
	2.13.3 INSTALACIONES AUXILIARES. PLANTA	1
TOTAL DE PLANOS		74





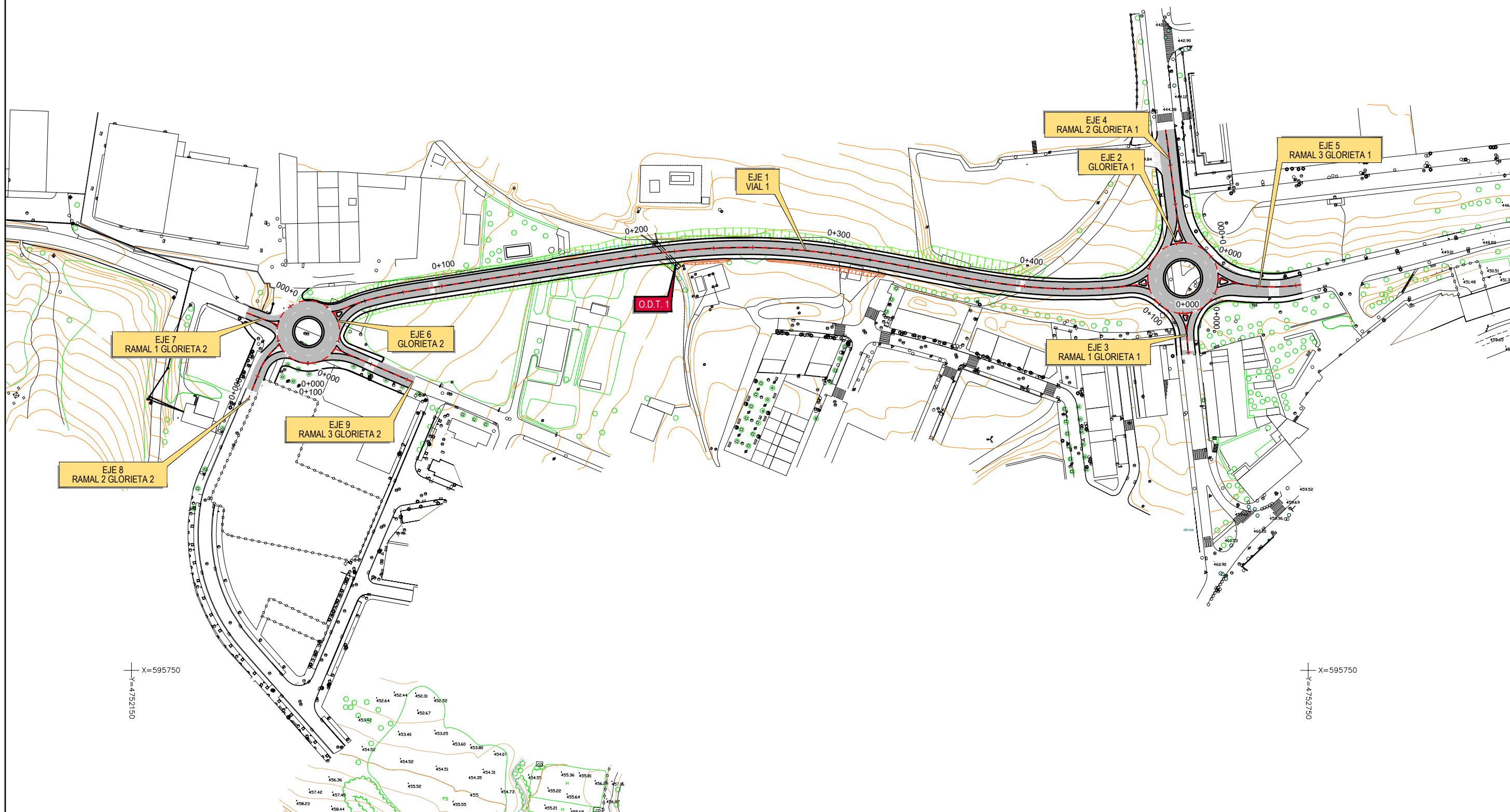


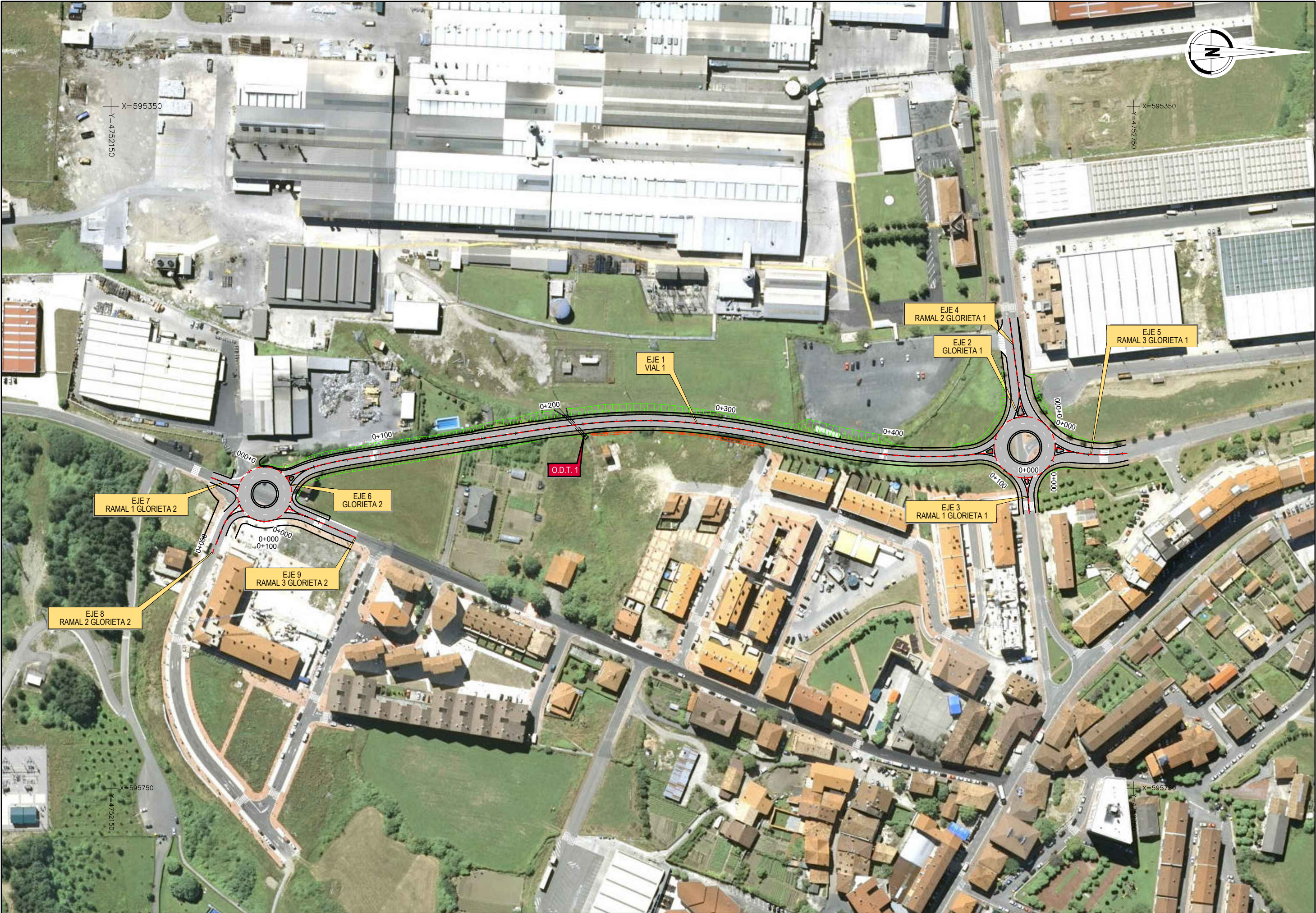
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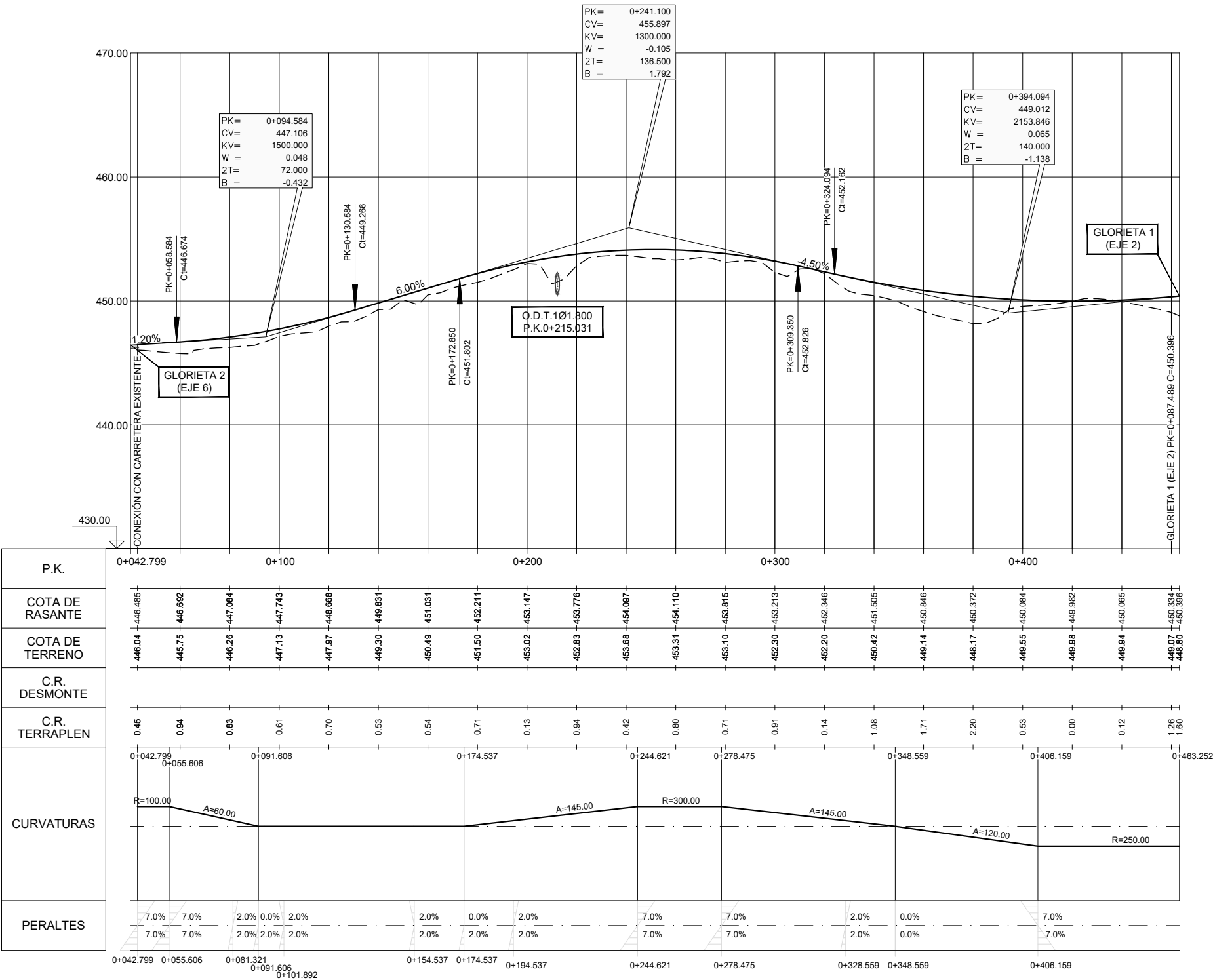
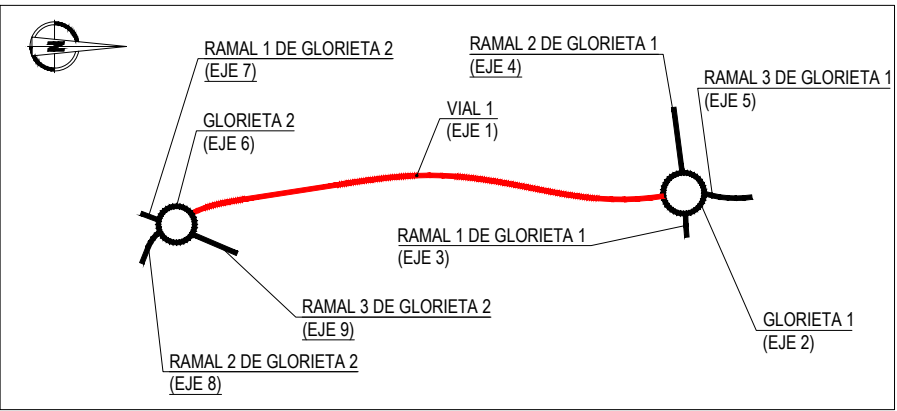
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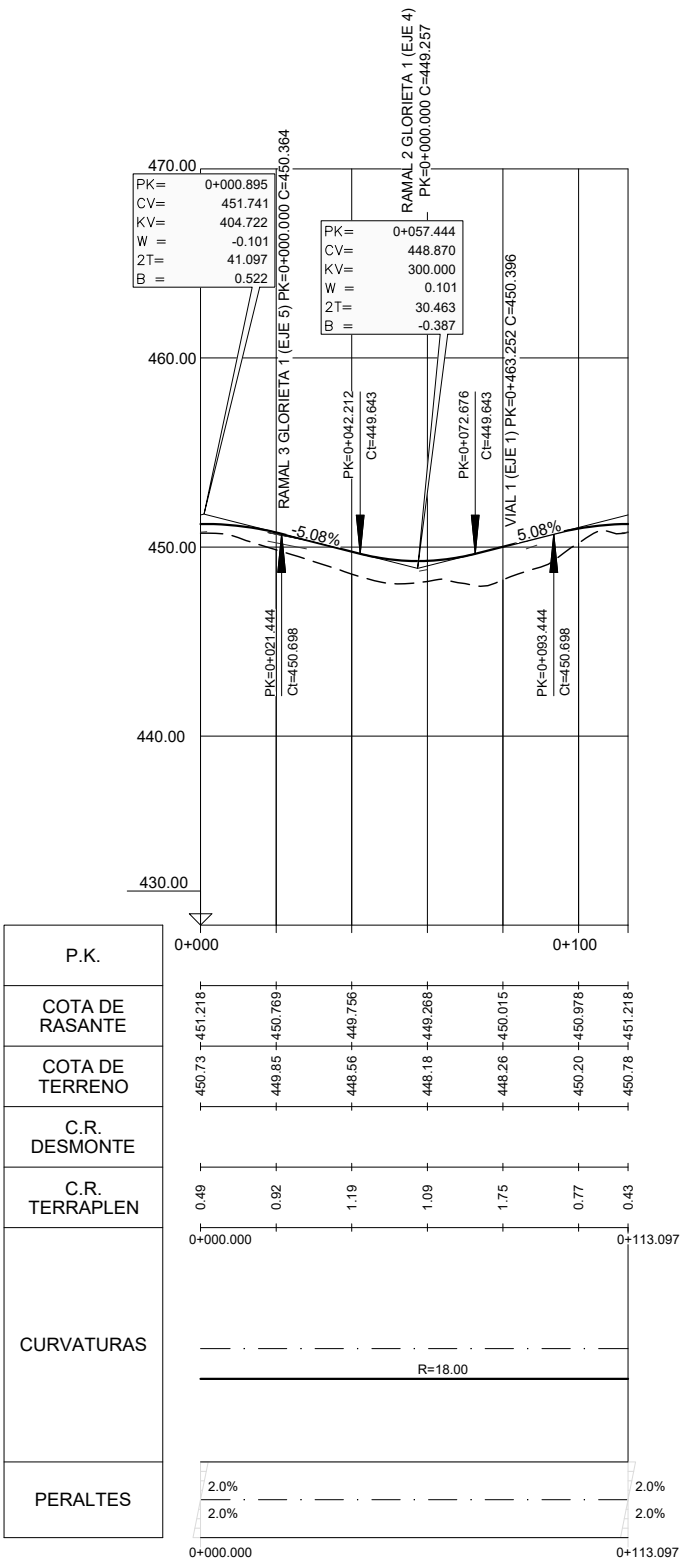
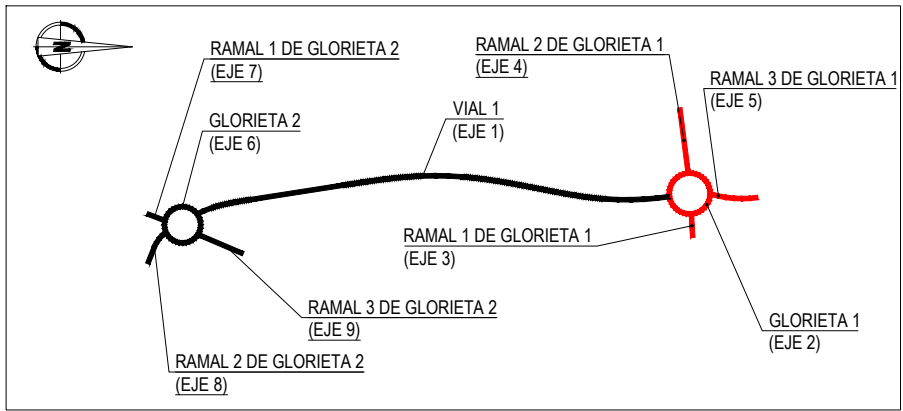
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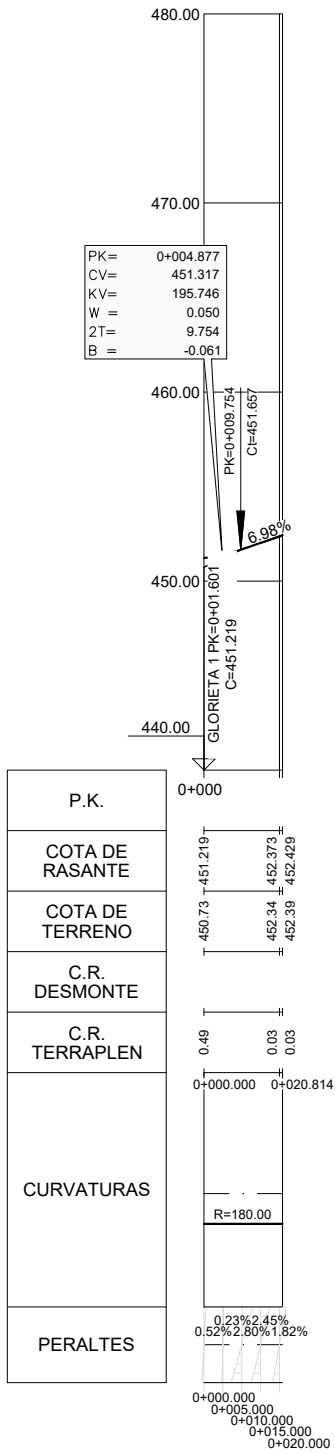




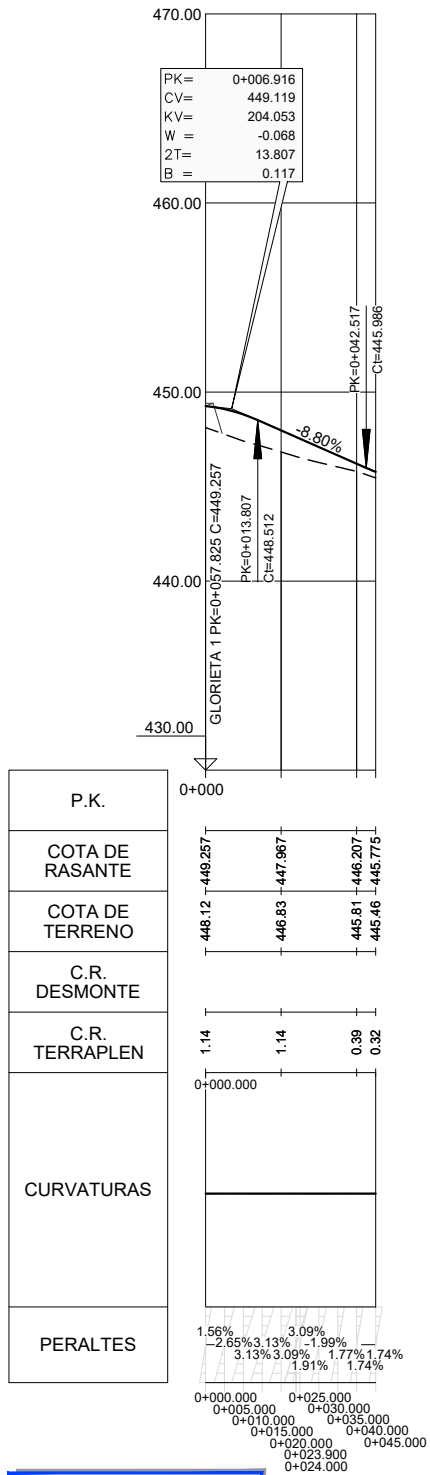
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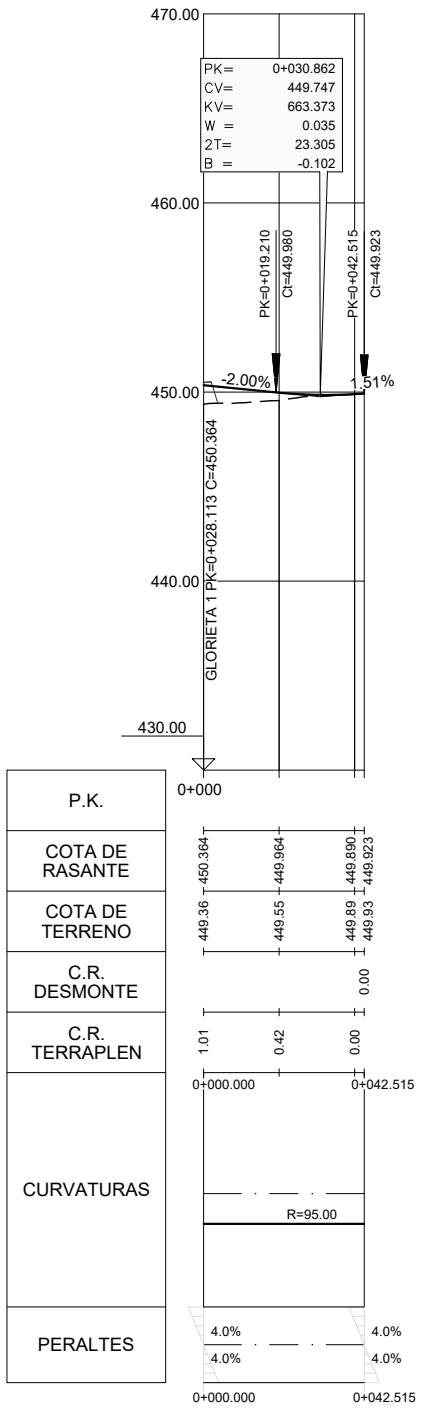
GLORIETA 1 (EJE 2)



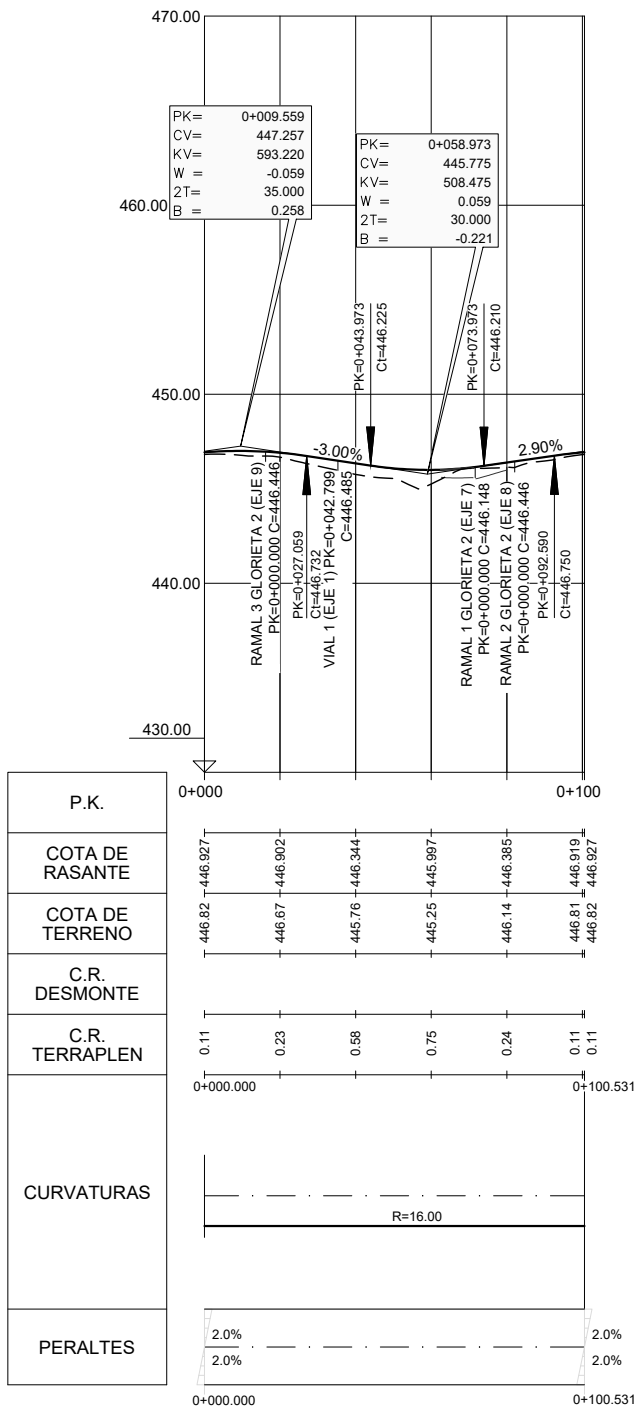
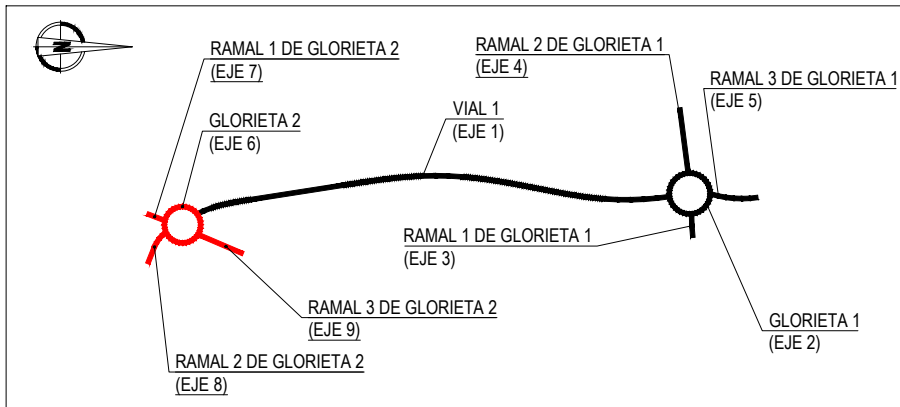
RAMAL 1 DE GLORIETA 1 (EJE 3)



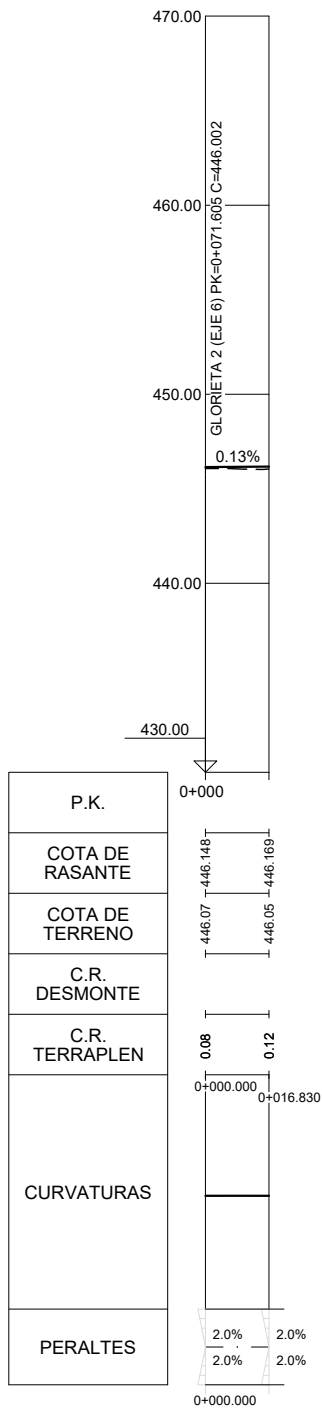
RAMAL 2 DE GLORIETA 1 (EJE 4)



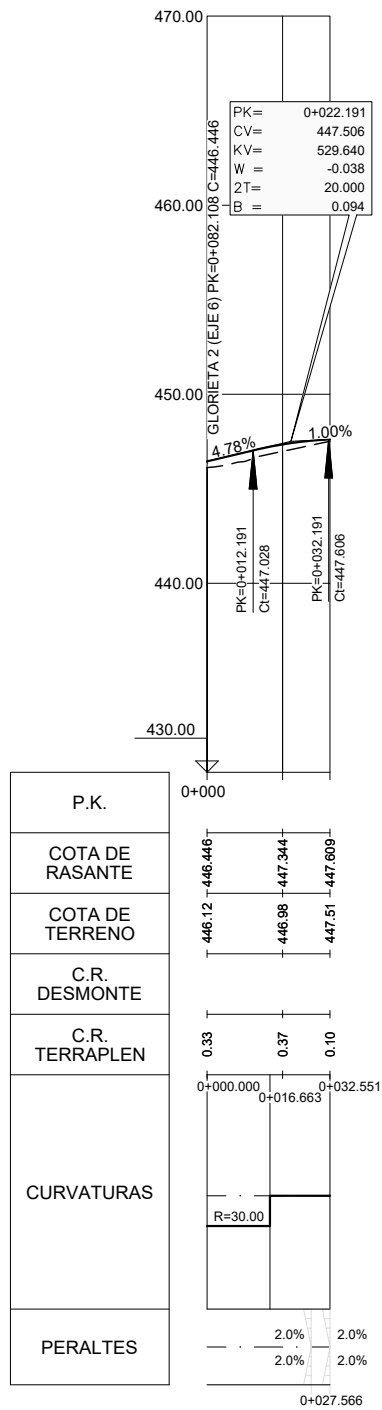
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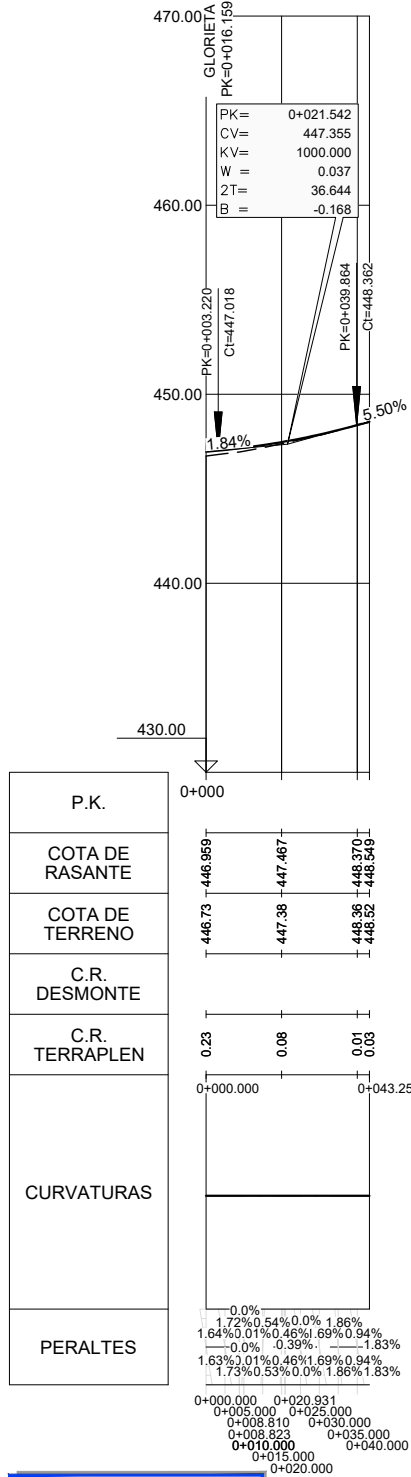
GLORIETA 2 (EJE 6)



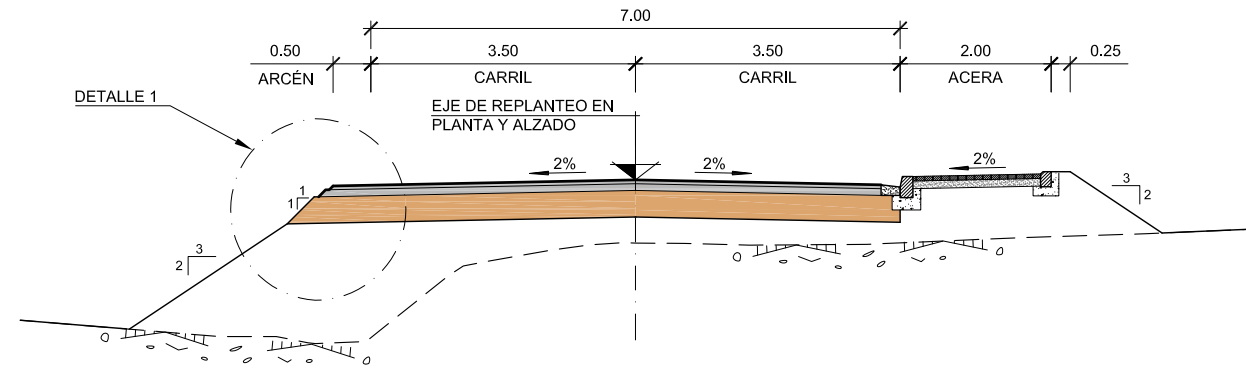
RAMAL 1 DE GLORIETA 2 (EJE 7)



RAMAL 2 DE GLORIETA 2 (EJE 8)

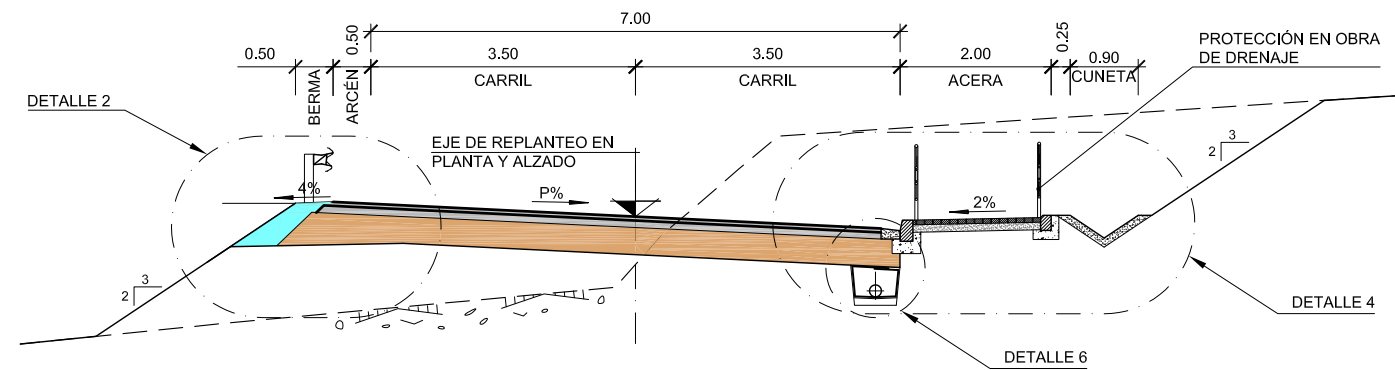


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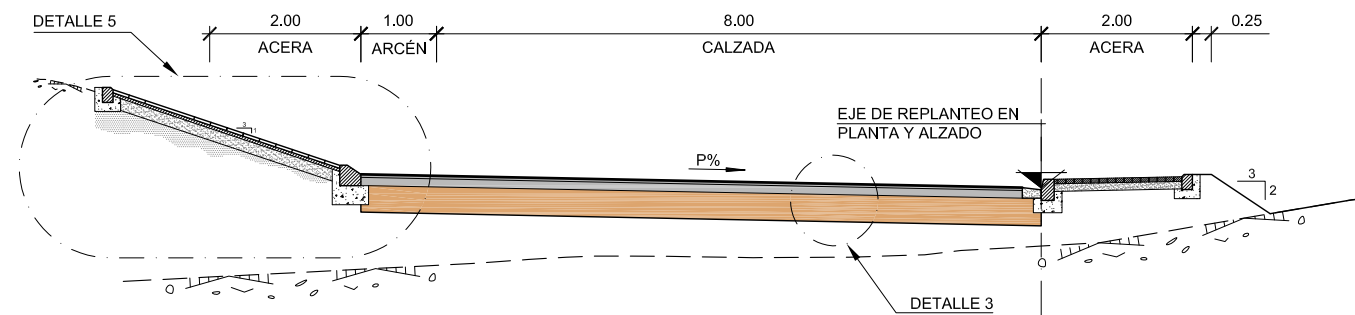
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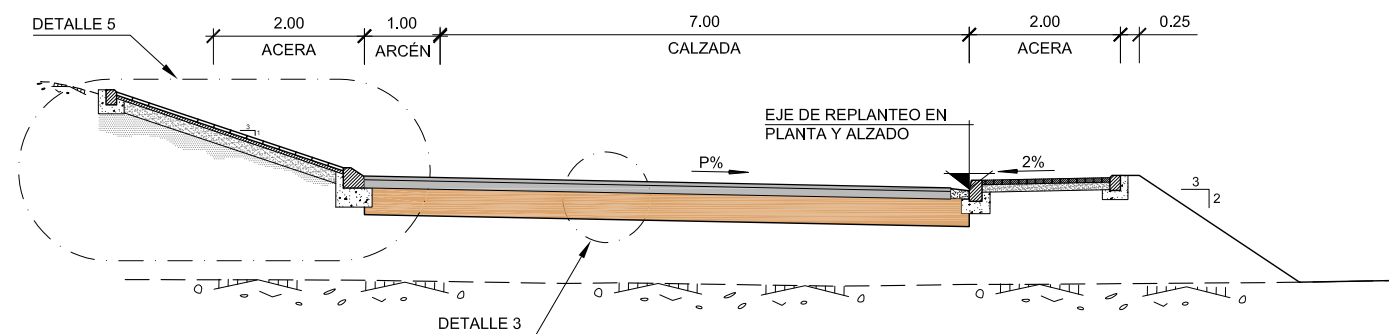
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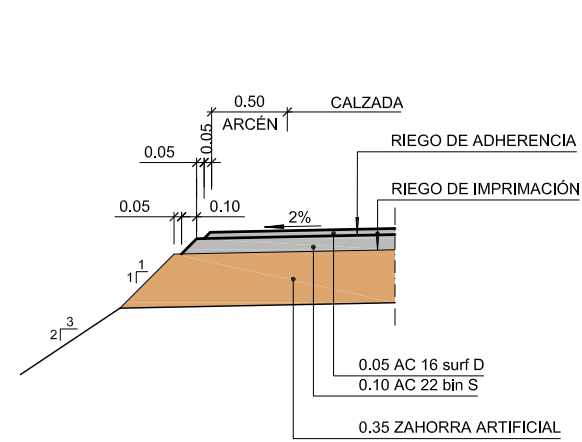
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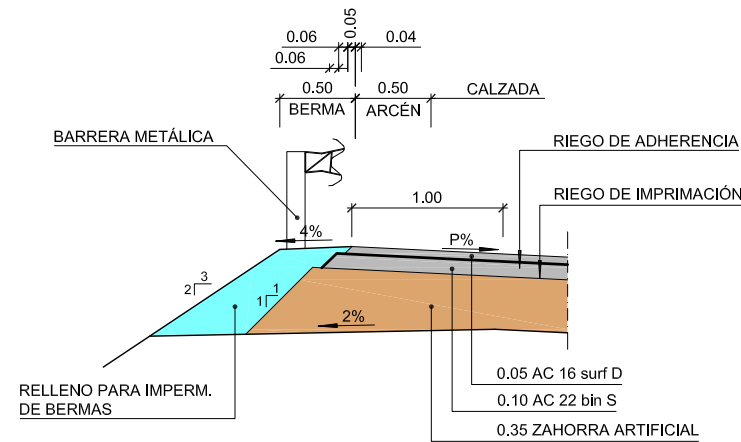


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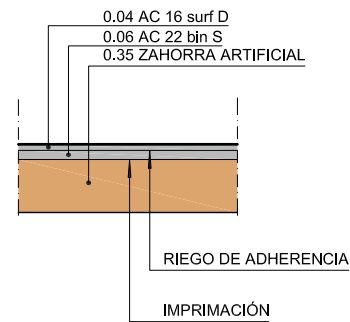
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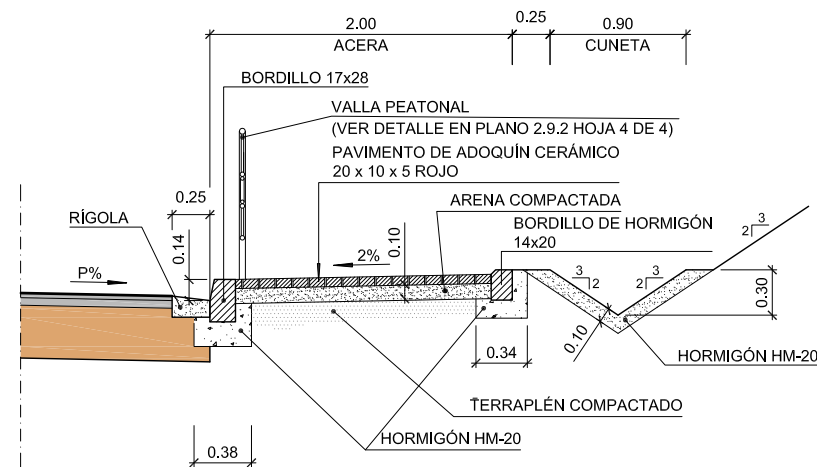
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ESCALA 1:25



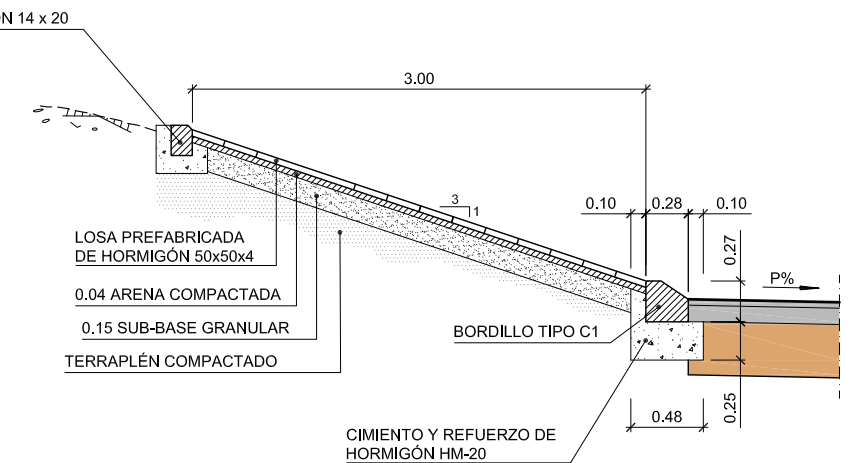
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ESCALA 1:25



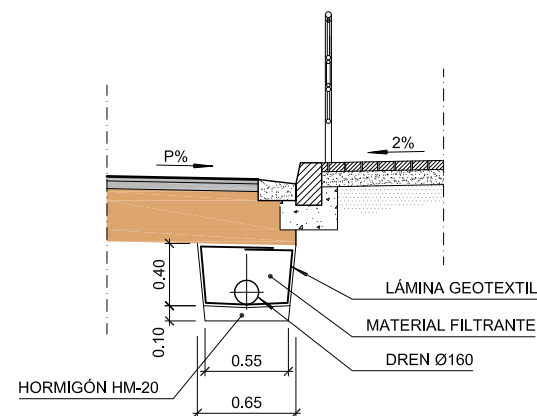
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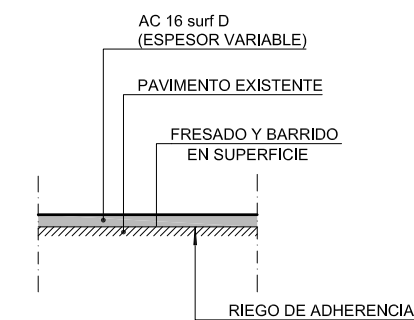
DETALLE 4
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DETALLE 5
ESCALA 1:25

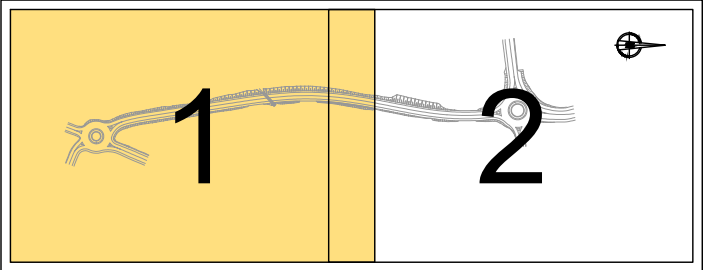
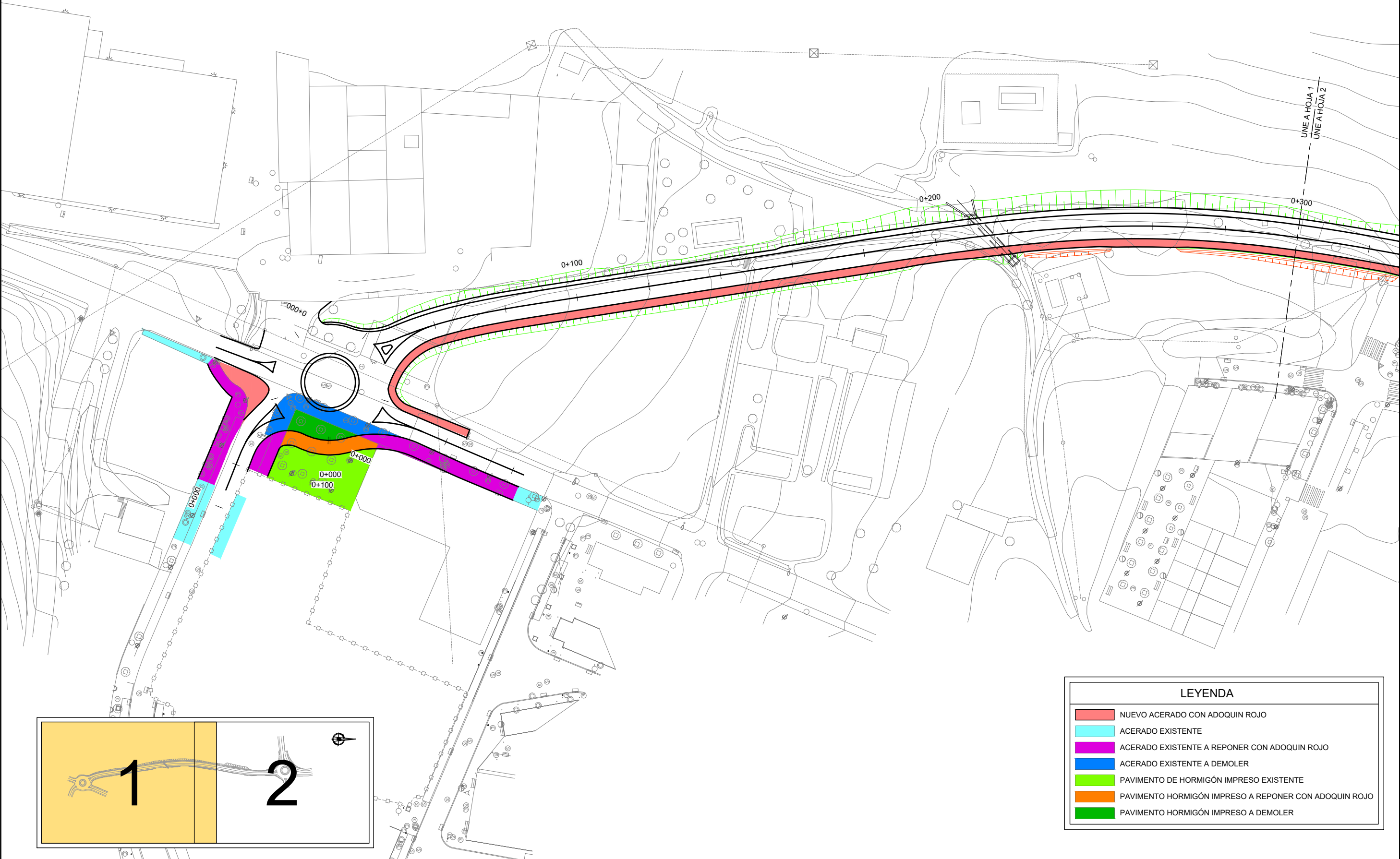


DETALLE 6
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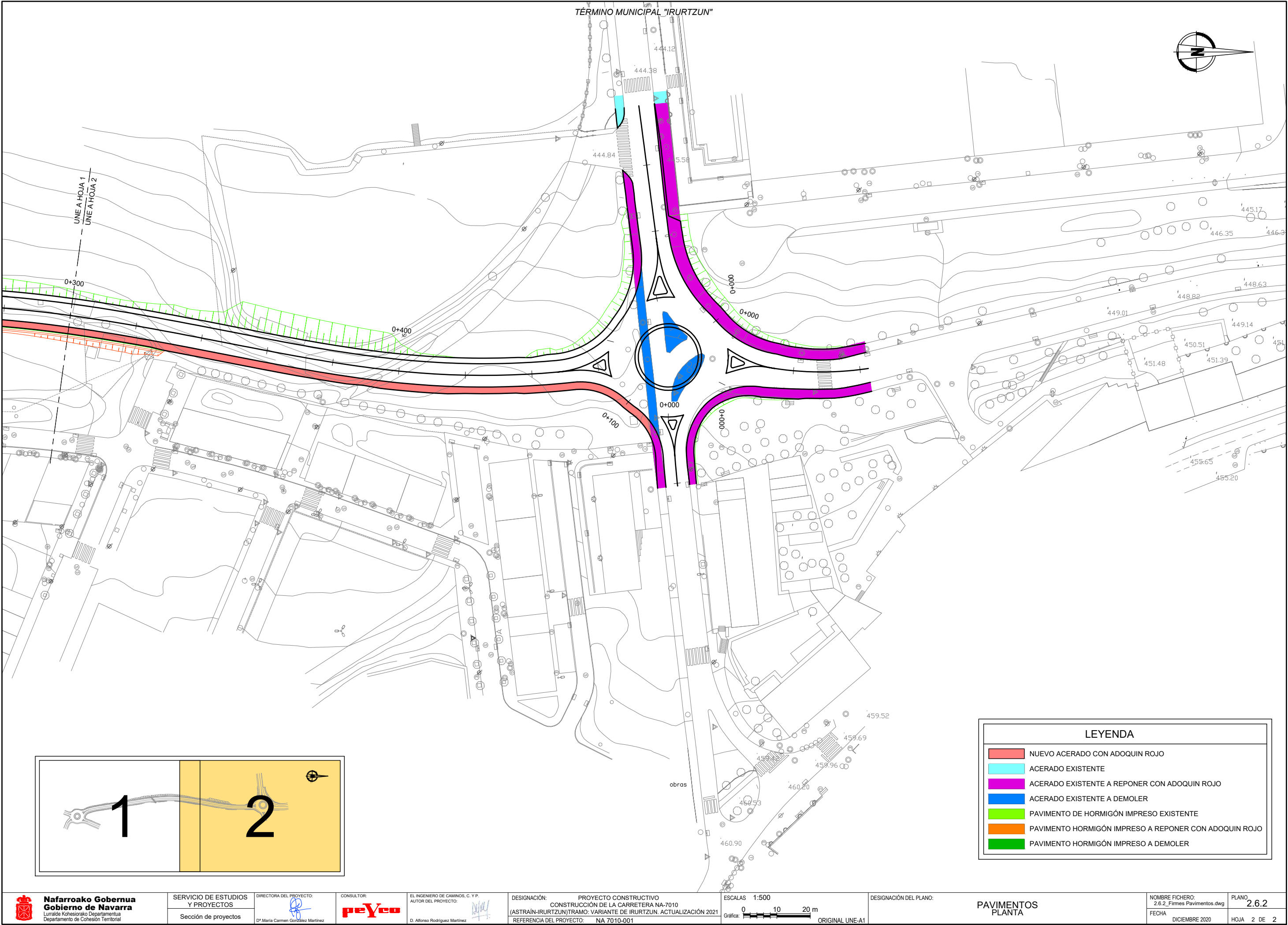


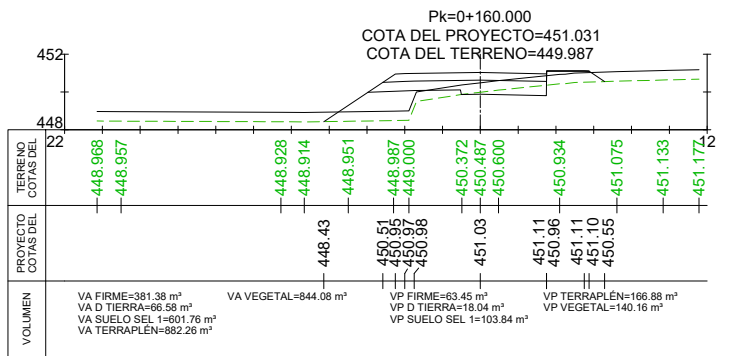
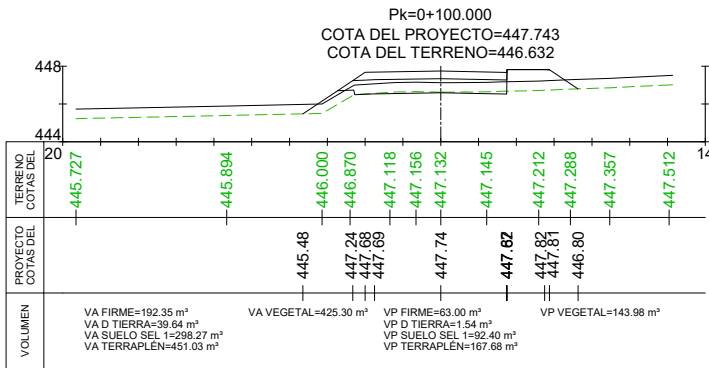
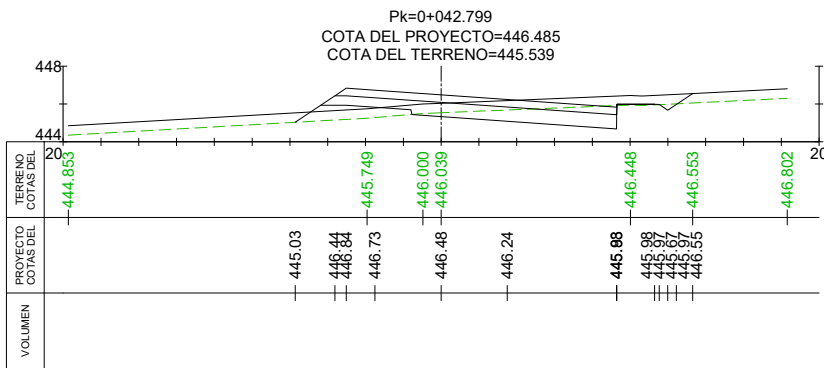
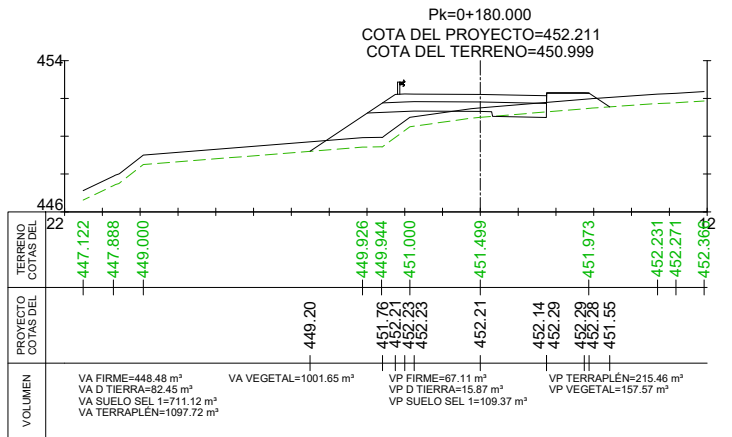
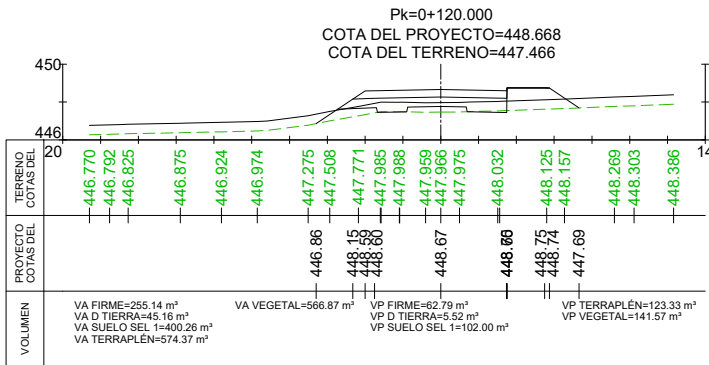
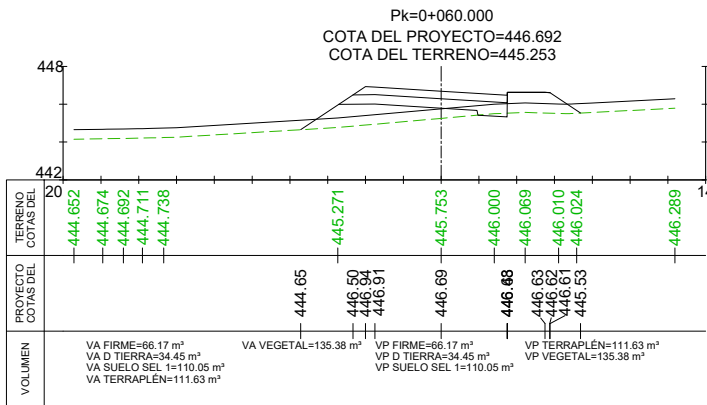
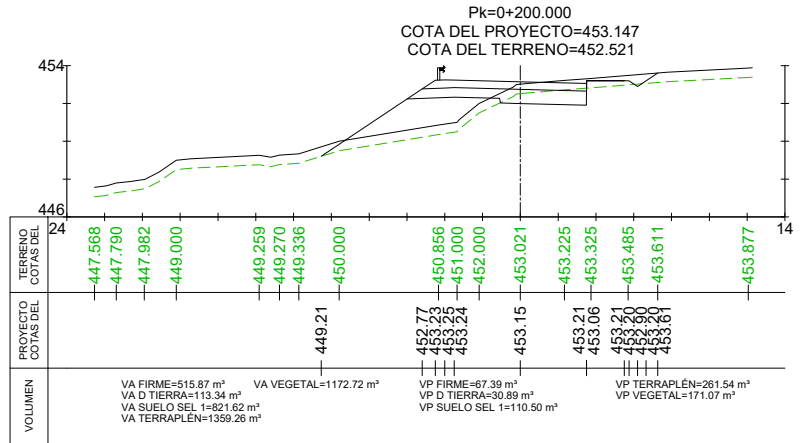
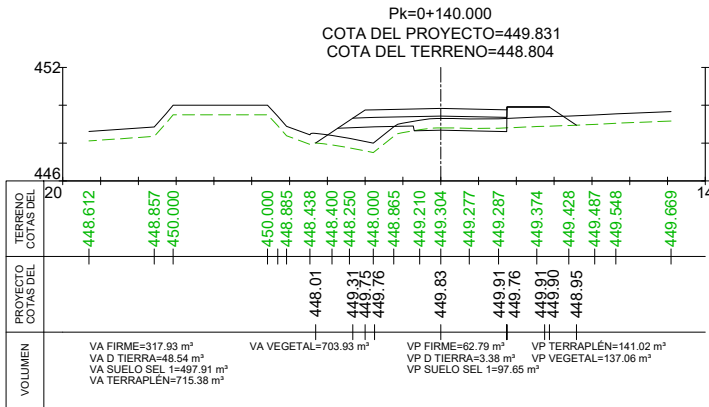
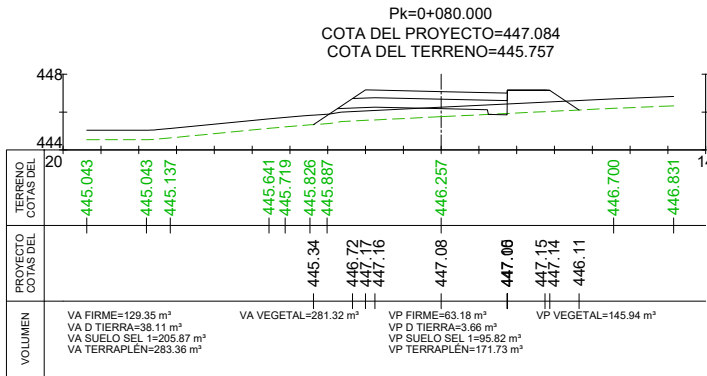
**DETALLE DE REFUERZO DE PAVIMENTO
EN ZONAS ASFALTADAS**
ESCALA 1:25

NOTA:
TODOS LOS EJES LLEVARÁN LA MISMA
SECCIÓN TIPO

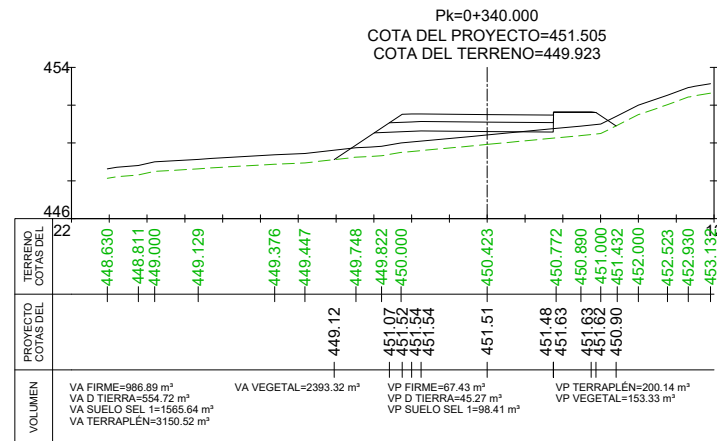
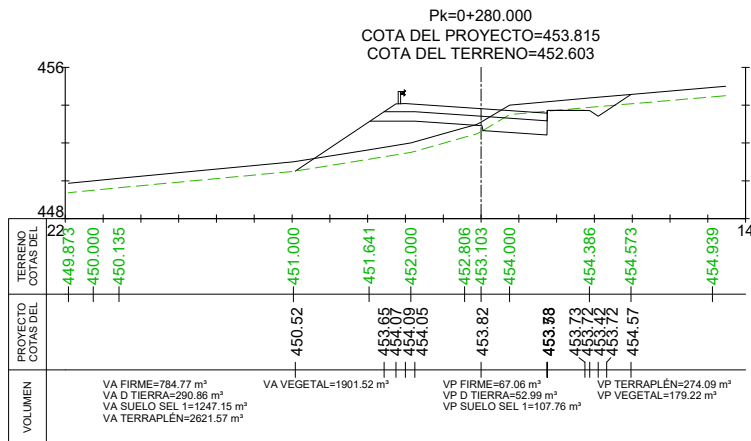
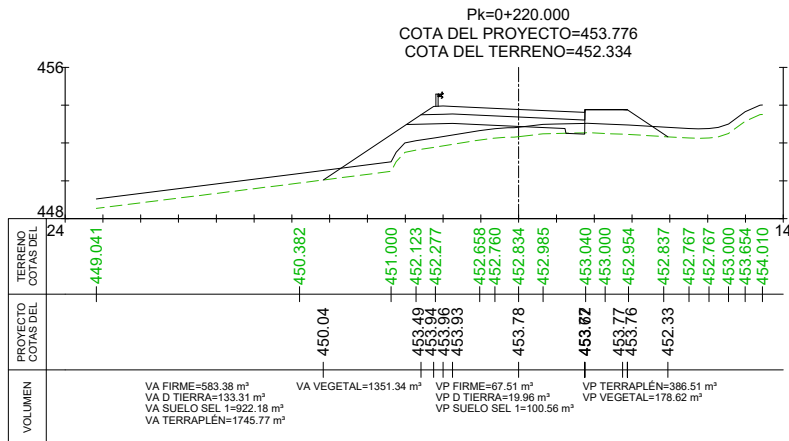
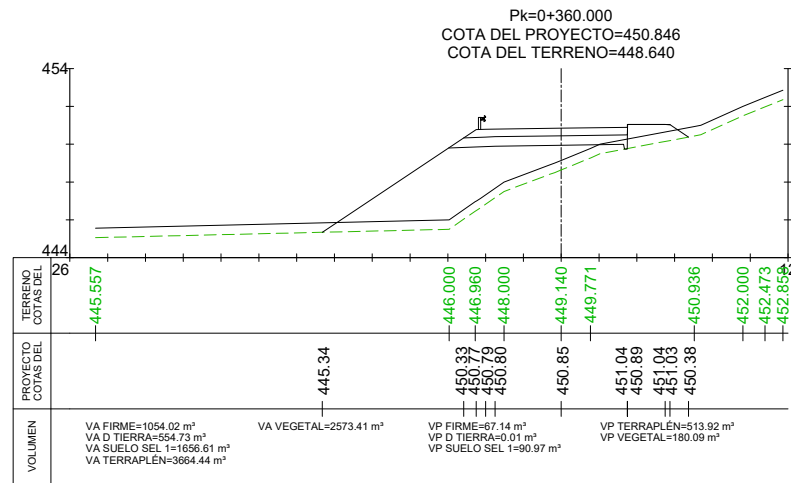
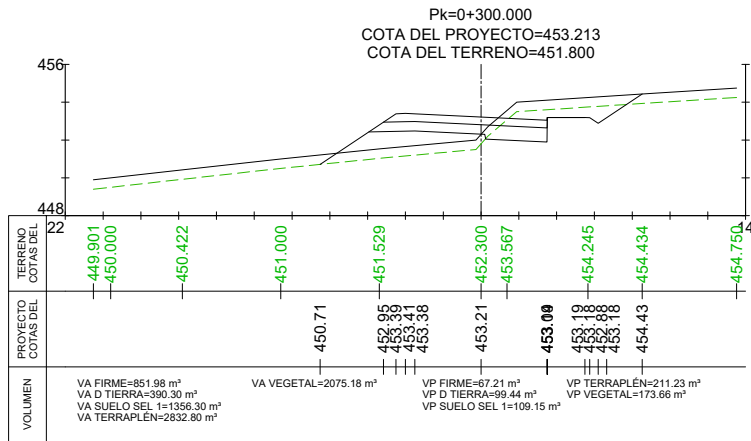
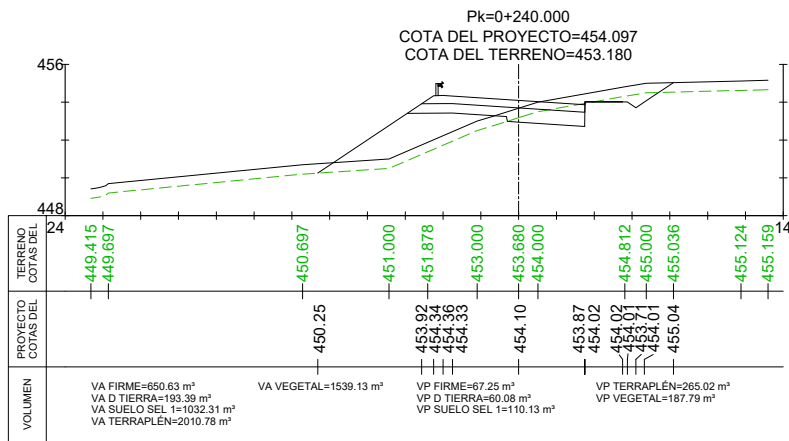
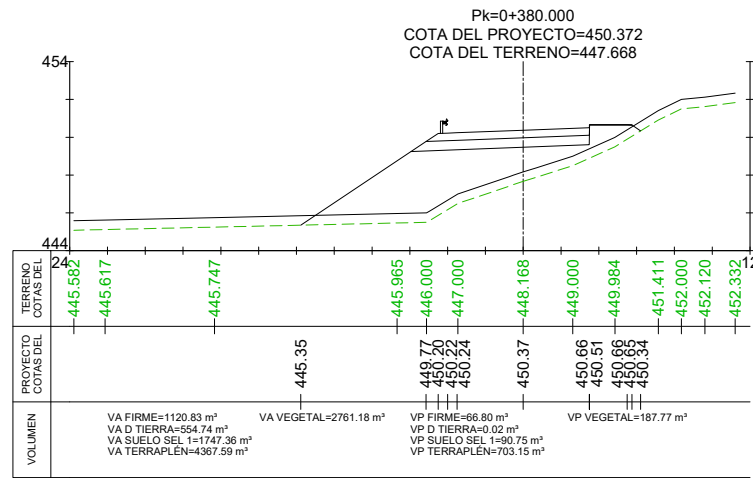
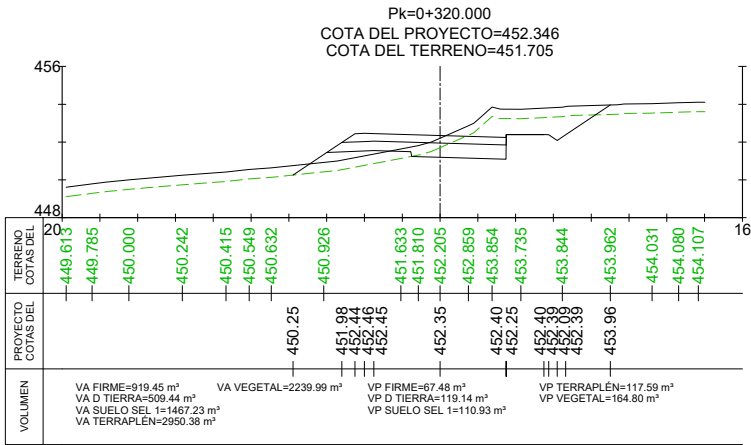
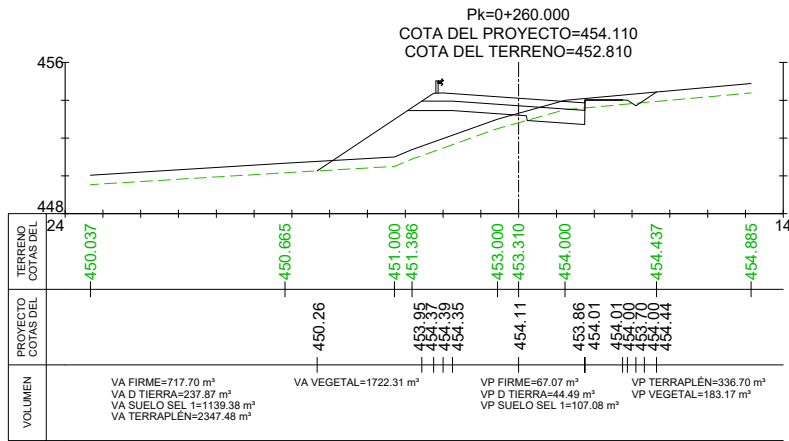


LEYENDA	
	NUEVO ACERADO CON ADOQUIN ROJO
	ACERADO EXISTENTE
	ACERADO EXISTENTE A REPONER CON ADOQUIN ROJO
	ACERADO EXISTENTE A DEMOLER
	PAVIMENTO DE HORMIGÓN IMPRESO EXISTENTE
	PAVIMENTO HORMIGÓN IMPRESO A REPONER CON ADOQUIN ROJO
	PAVIMENTO HORMIGÓN IMPRESO A DEMOLER

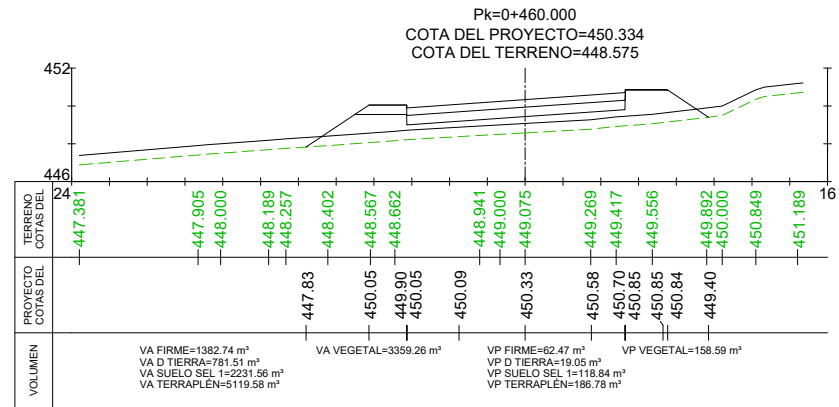
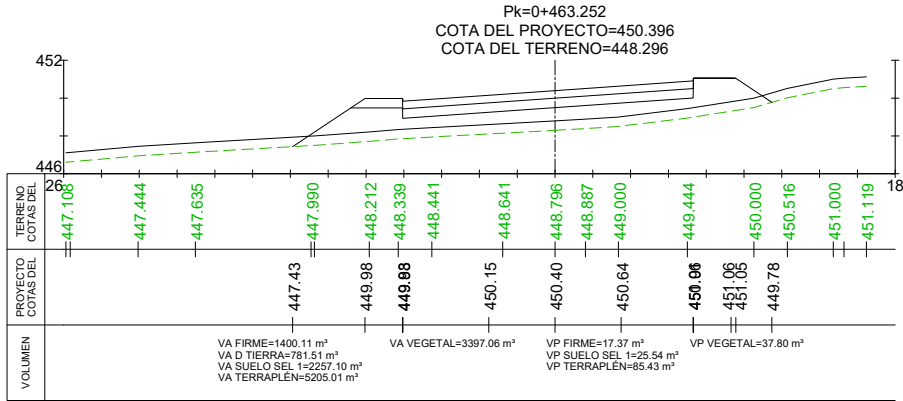
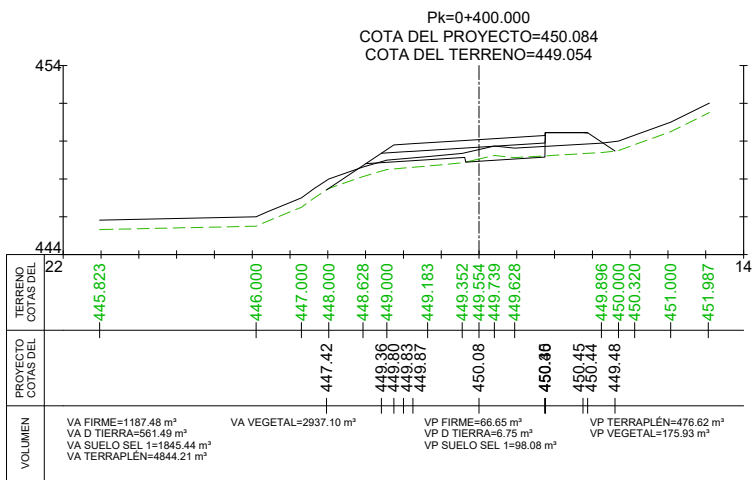
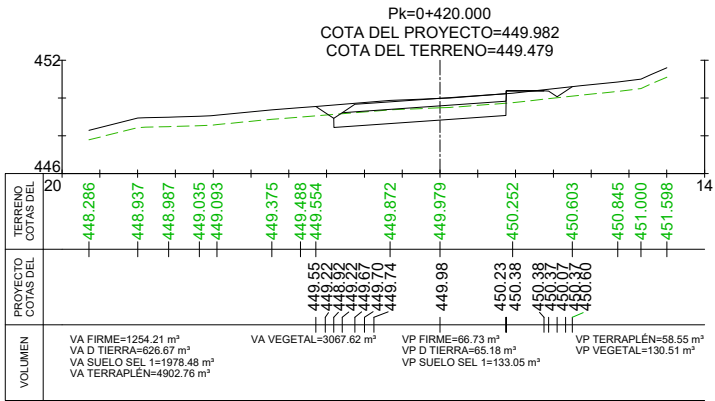
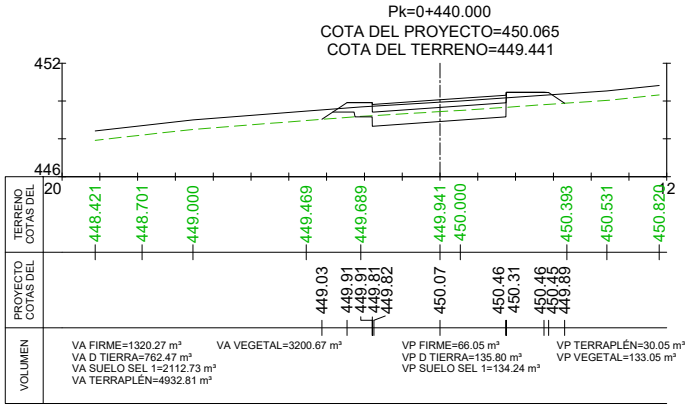




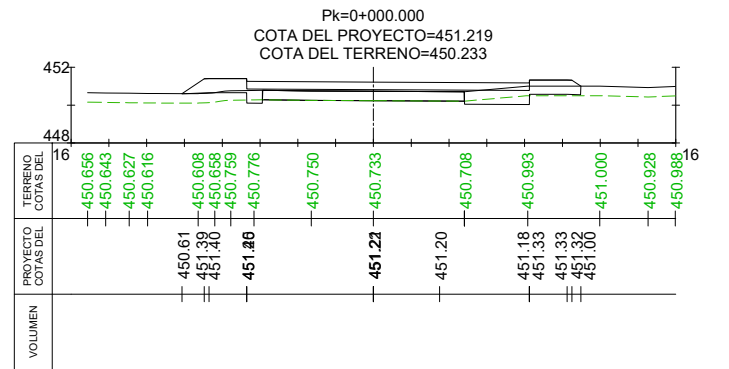
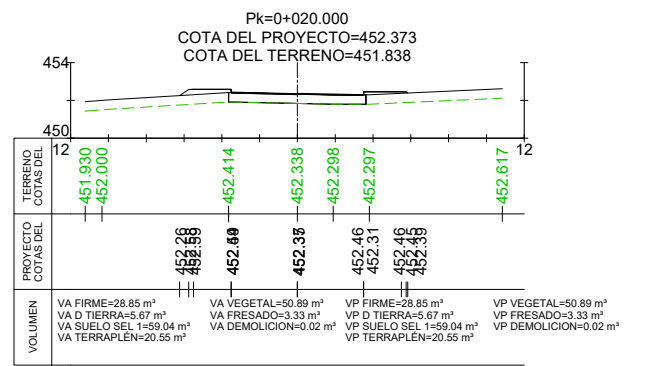
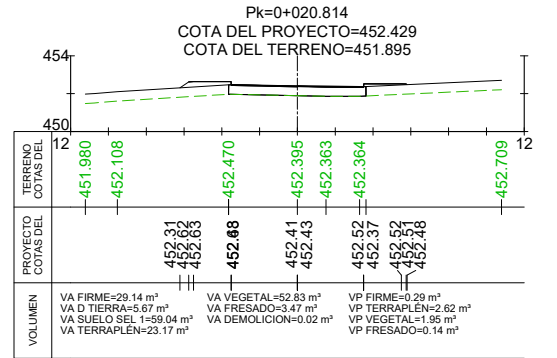
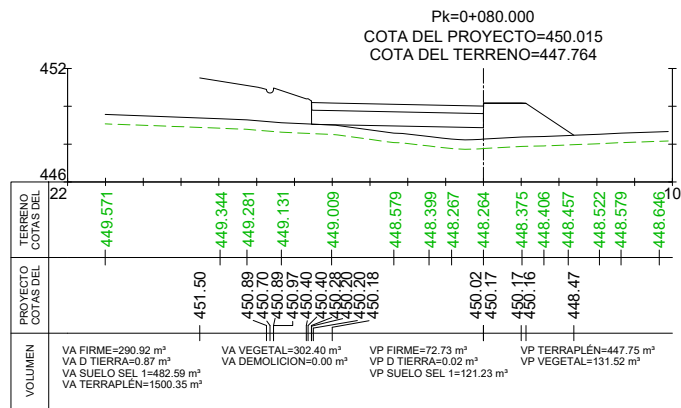
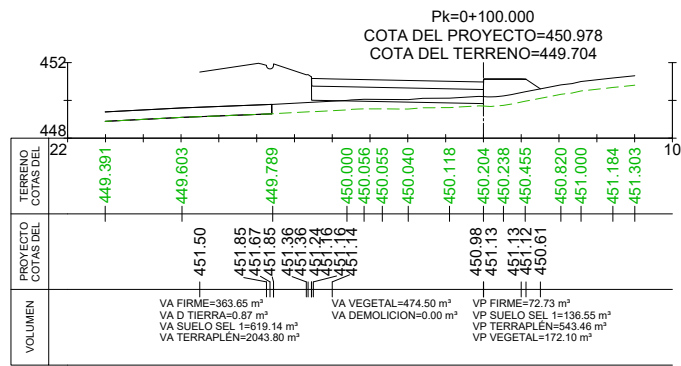
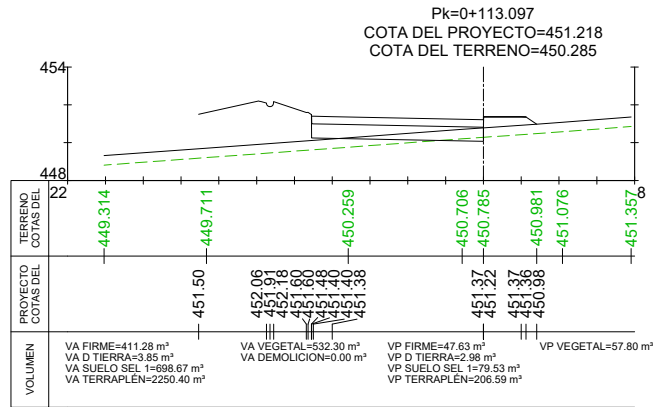
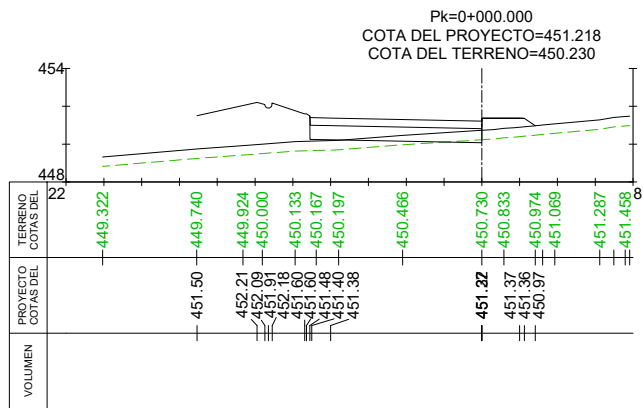
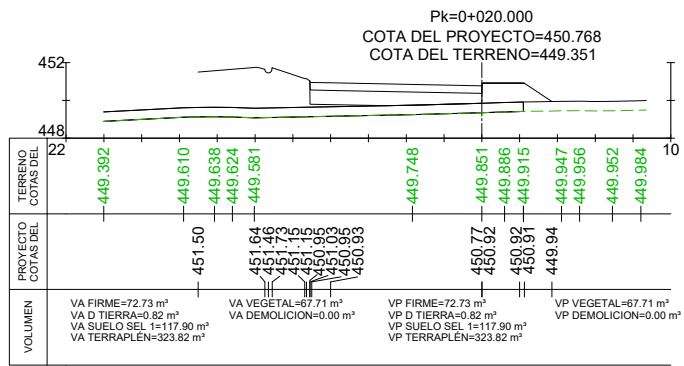
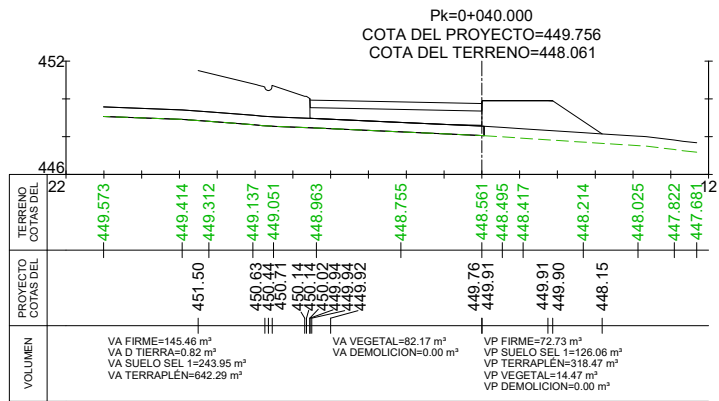
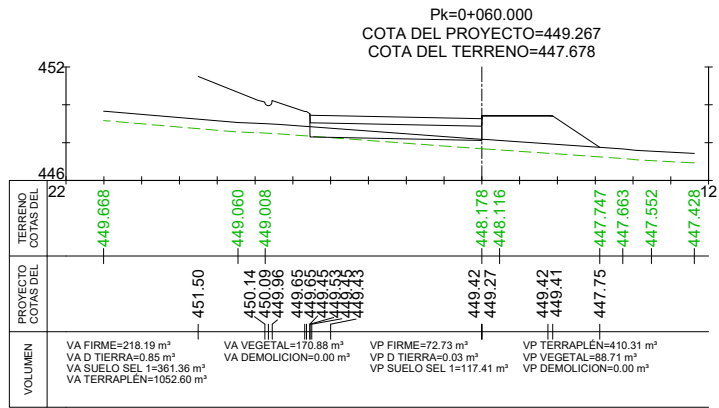
VIAL 1 (EJE 1)



VIAL 1 (EJE 1)

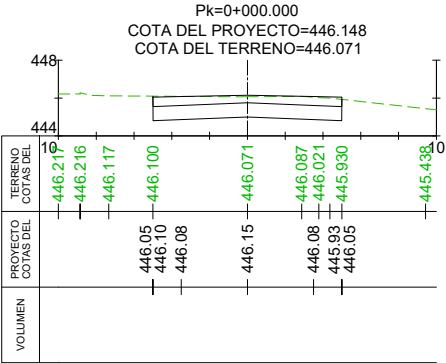
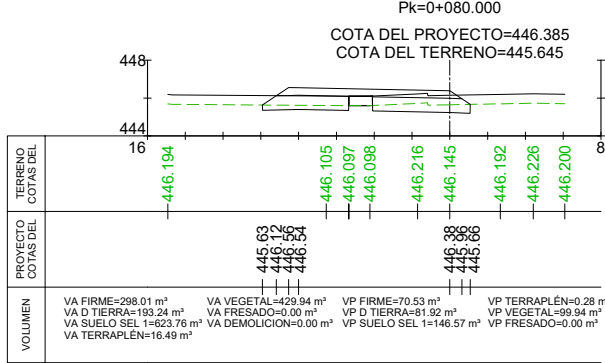
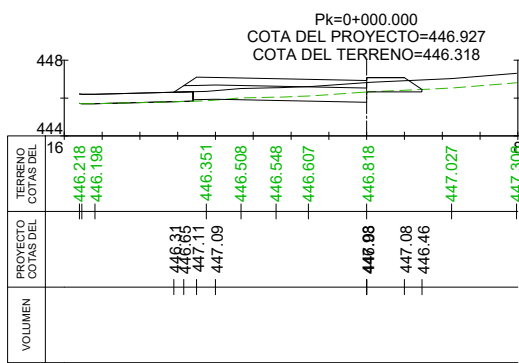
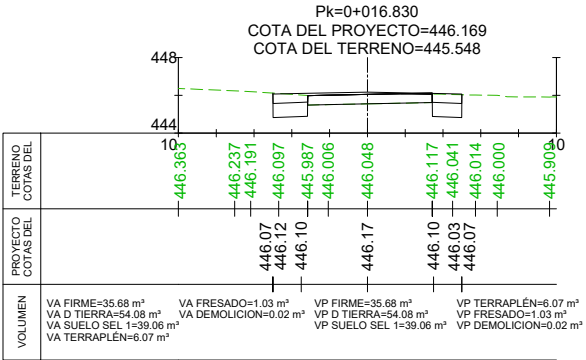
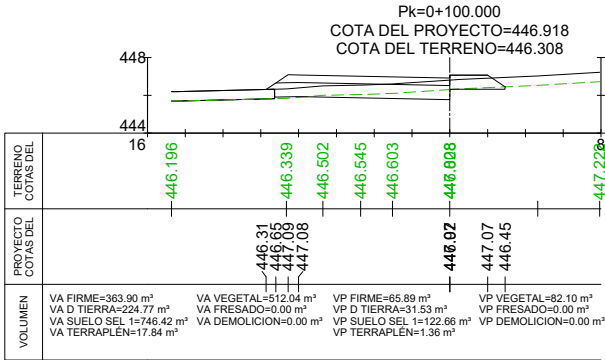
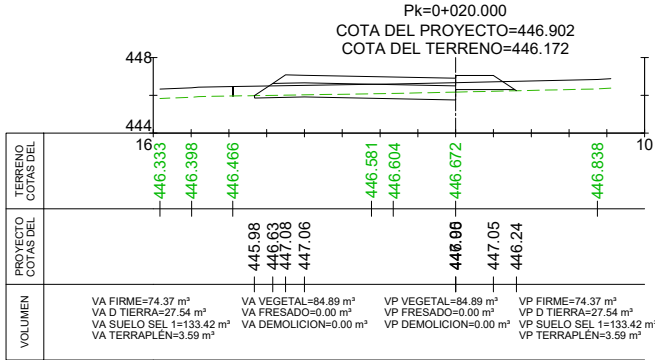
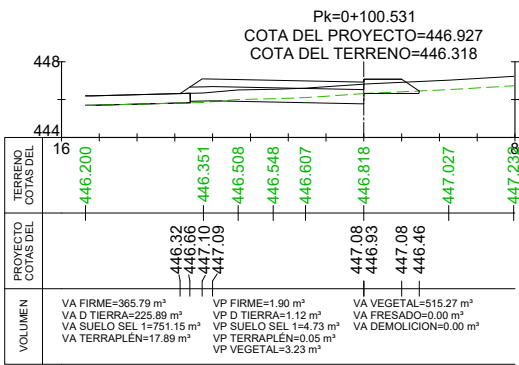
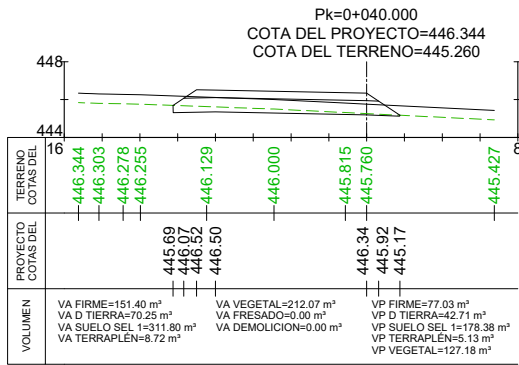
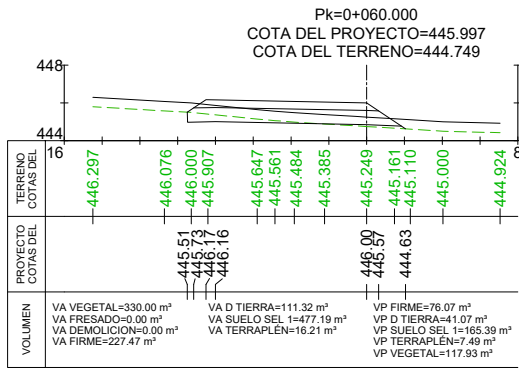


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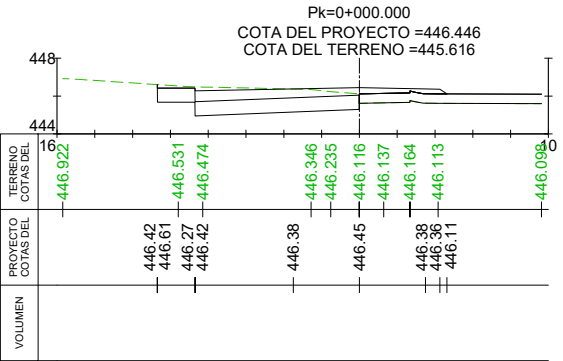
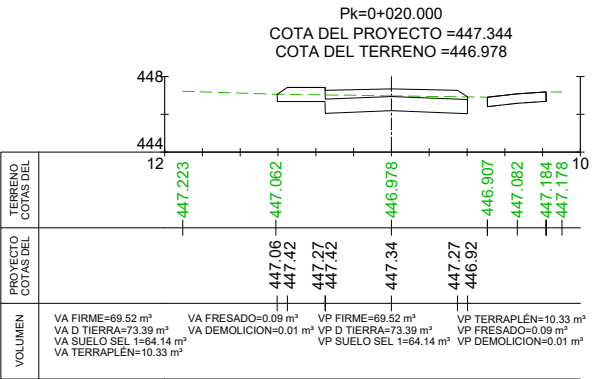
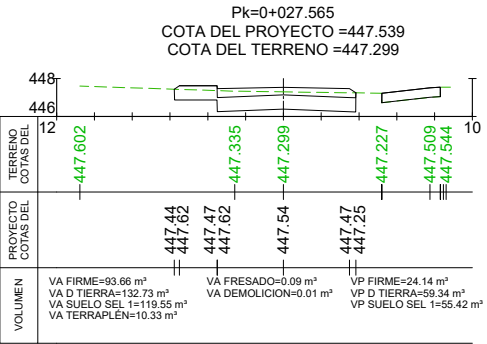
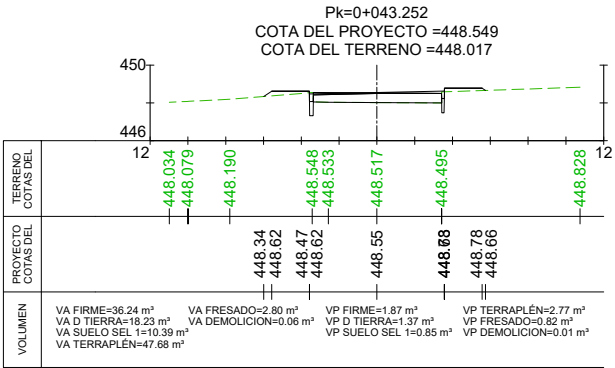
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RAMAL 1 DE GLORIETA 1 (EJE 3)

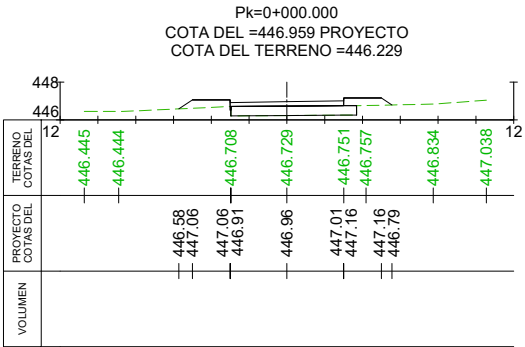
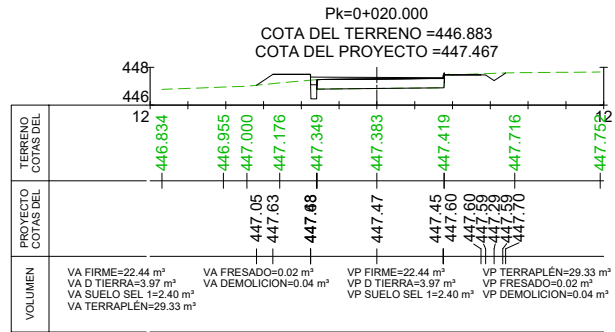
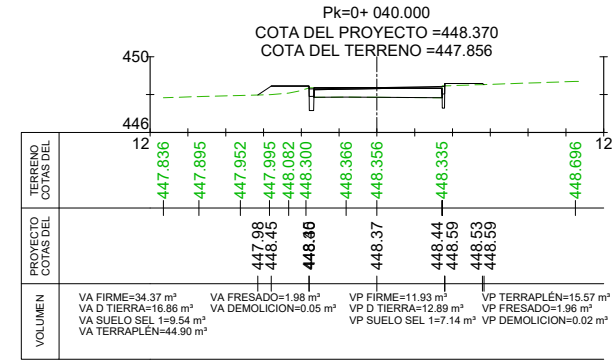


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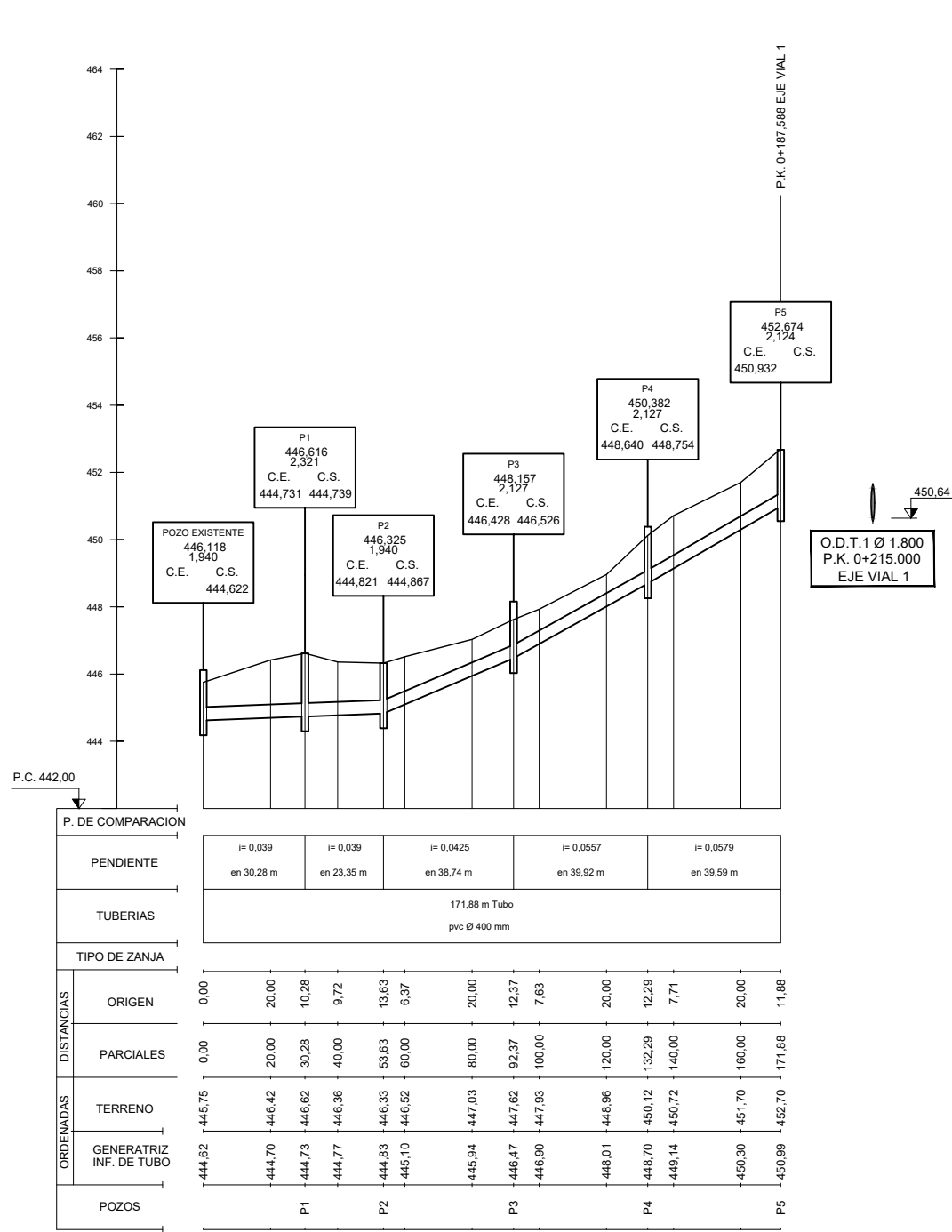
RAMAL 1 DE GLORIETA 2 (EJE 7)



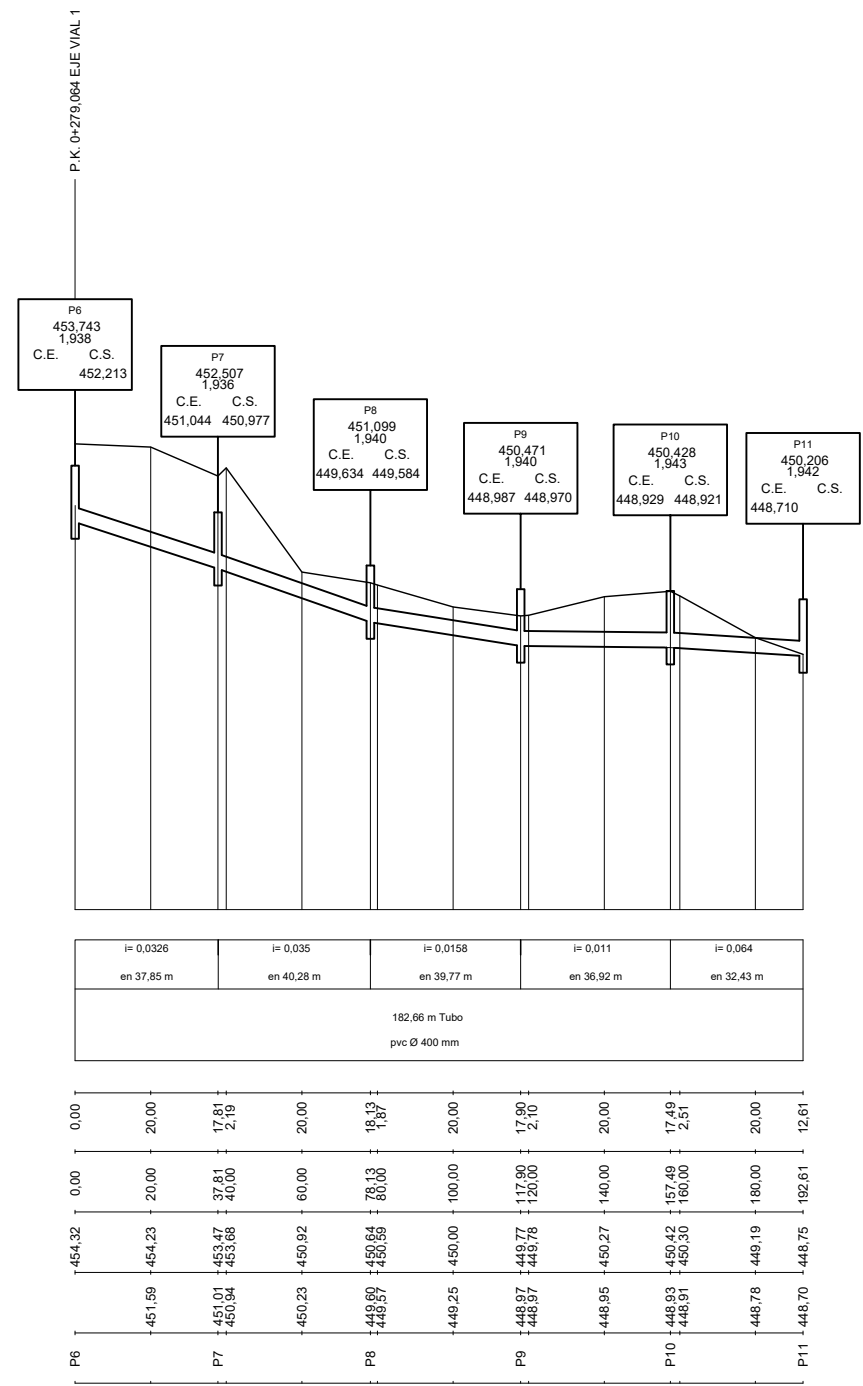
RAMAL 2 DE GLORIETA 2 (EJE 8)

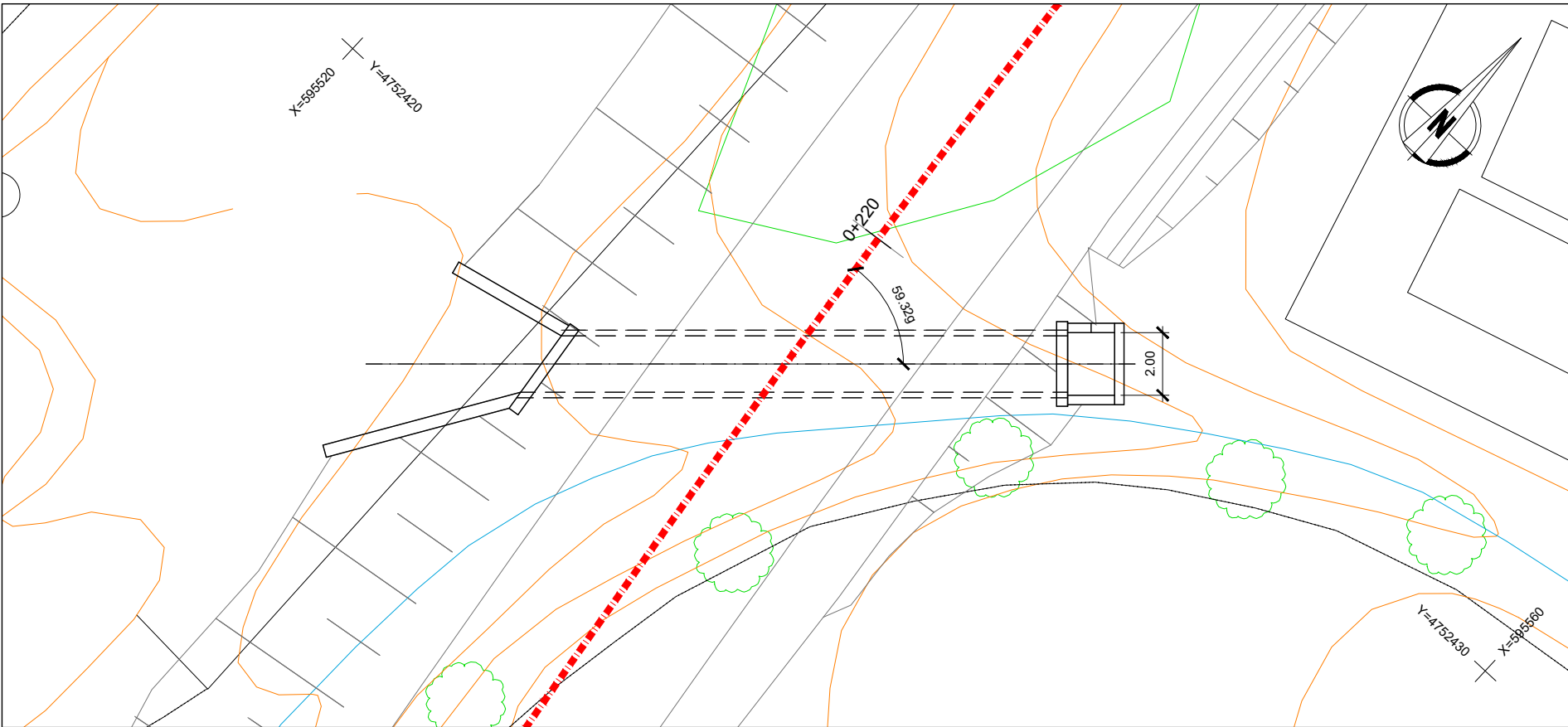


RAMAL 3 DE GLORIETA 2 (EJE 9)

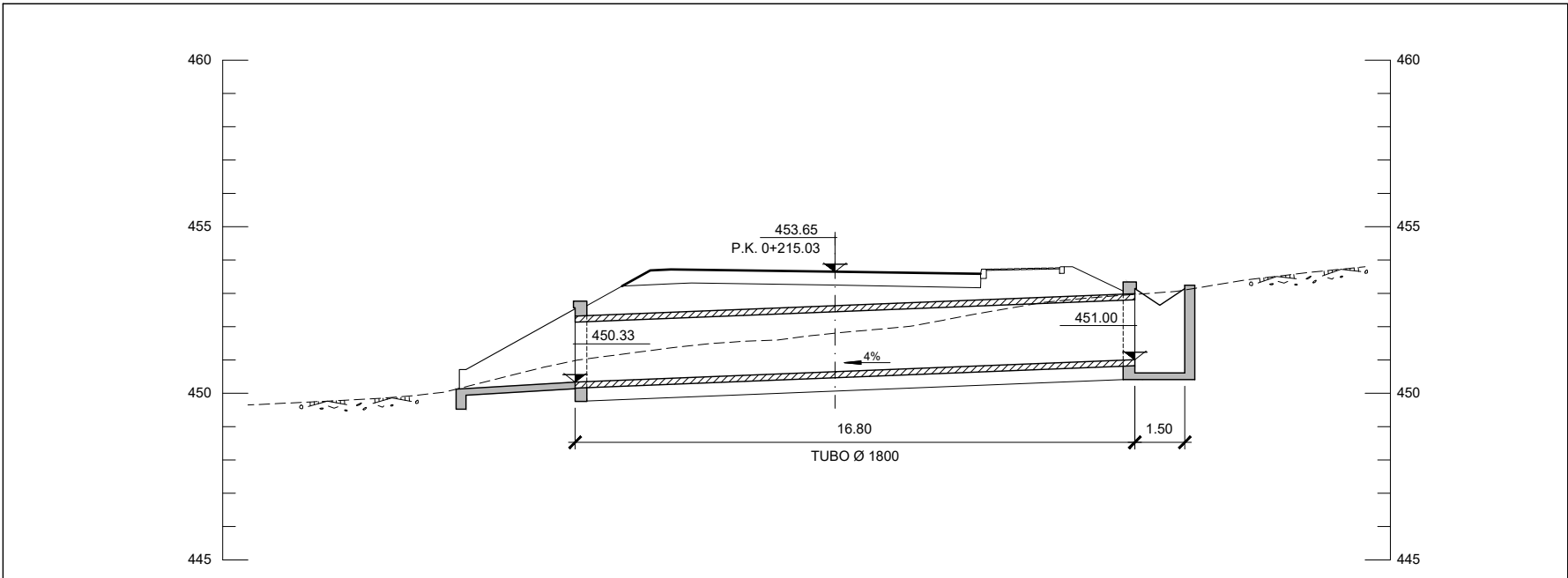


VIAL 1



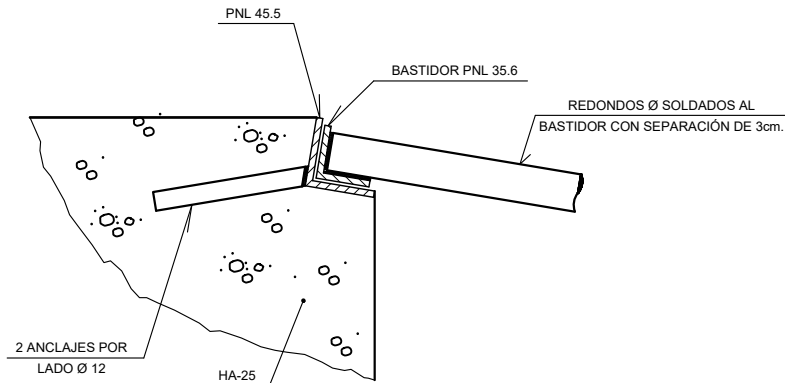
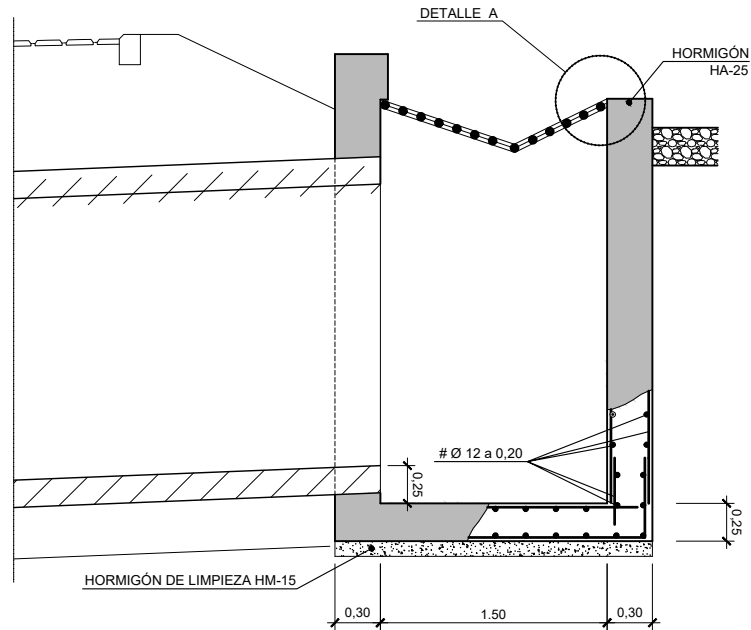


PLANTA
ESCALA 1:100

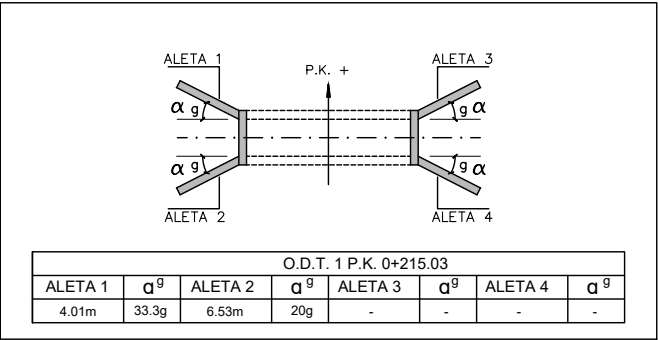


SECCIÓN
ESCALA 1:100

POZO TIPO EN O.D.T.
ESCALA 1:25

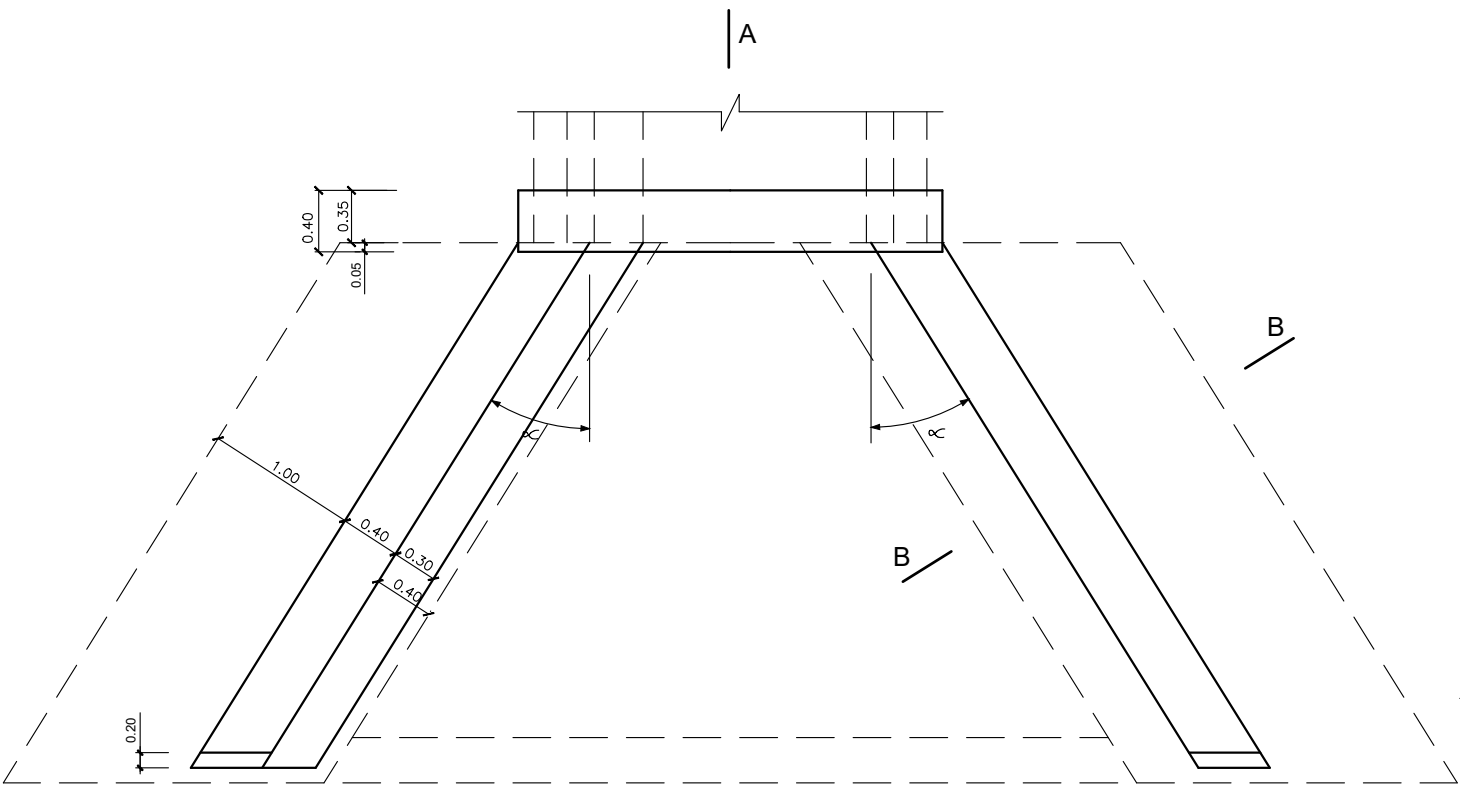


DETALLE A



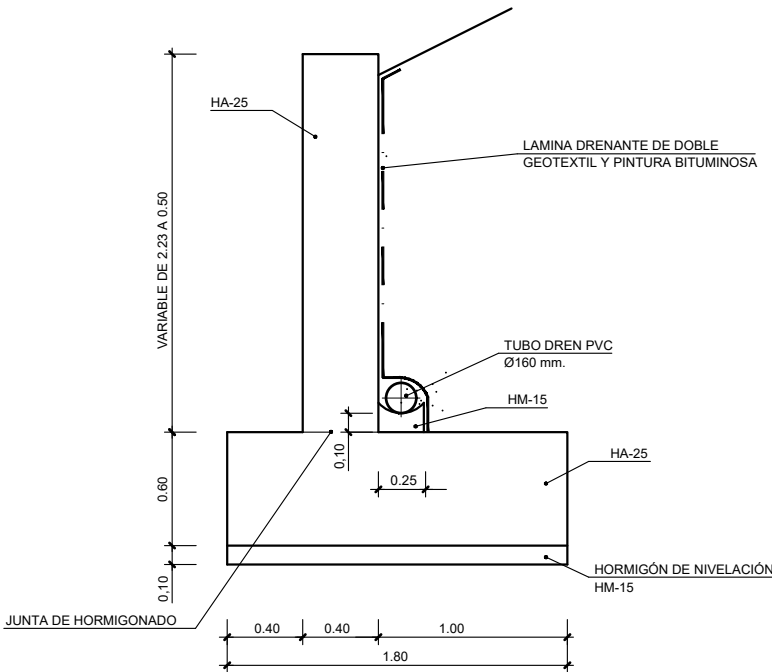
O.D.T. 1 P.K. 0+215.03							
ALETA 1	q ^g	ALETA 2	q ^g	ALETA 3	q ^g	ALETA 4	q ^g
4.01m	33.3g	6.53m	20g	-	-	-	-

DETALLE DE BOQUILLA Y ALETAS PARA TUBOS DE HORMIGÓN DE Ø 1.80m.



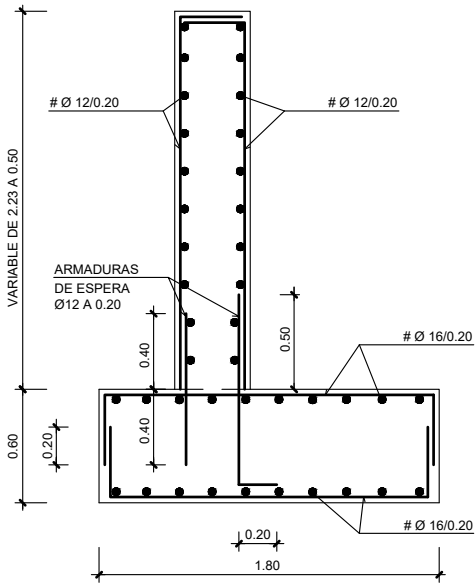
DETALLE DE BOQUILLA
PLANTA

ESCALA 1:25



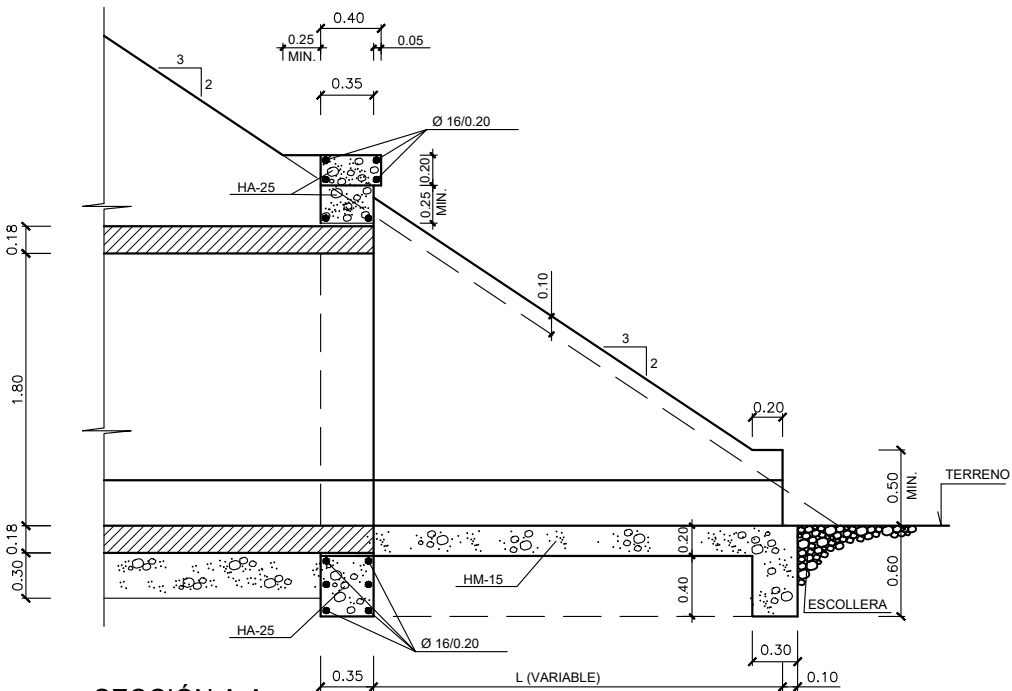
SECCIÓN B-B (DEFINICIÓN)
ALETAS

ESCALA 1:20



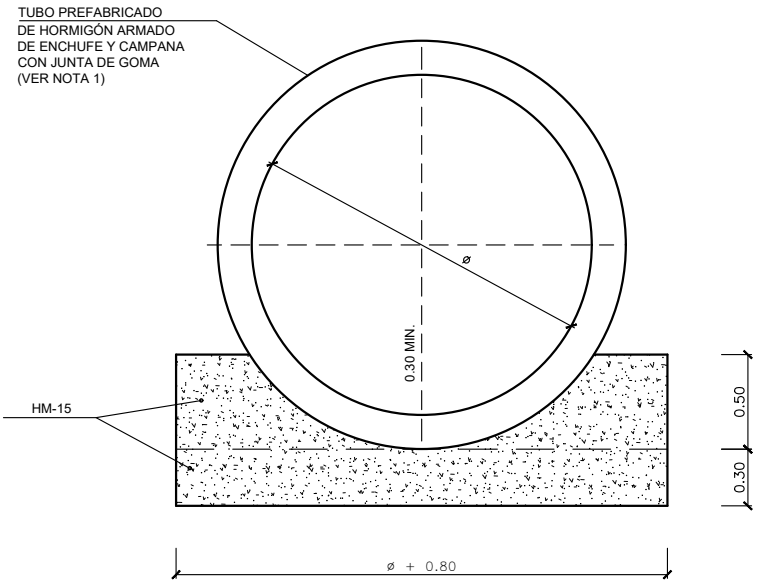
ARMADURAS ALETAS

ESCALA 1:20



SECCIÓN A-A

ESCALA 1:25



SECCIÓN DEL CUERPO DE OBRA

ESCALA 1:20

CUADRO DE CONTROL

MATERIAL	ELEMENTOS	DESIGNACIÓN	NIVEL DE CONTROL	COEFICIENTE SEGUR. E.L.U.
	NIVELACIÓN	HM-10/B/20/IIa	NO ESTRUCTURAL	
HORMIGÓN	CIMENTOS	HA-25/P/20/IIa	NORMAL	$\gamma_c=1.50$
	ALZADOS	HA-25/P/20/IIa	NORMAL	$\gamma_c=1.50$
ACERO	PASIVO	B-500-S	NORMAL	$\gamma_s=1.15$
EJECUCIÓN	CIMENTOS		NORMAL	$\gamma_g=1.50$
	ALZADOS		NORMAL	$\gamma_g=1.60$

DOSIFICACIÓN DE HORMIGONES

ELEMENTOS	TIPO	NIVEL DE CONTROL	CONTENIDO MÍNIMO DE CEMENTO
CIMENTOS	HA-25/P/20/IIa	0.60	275Kg/m ³
ALZADOS	HA-25/P/20/IIa	0.60	275Kg/m ³

NOTA 1: LOS TUBOS PREFABRICADOS DE HORMIGÓN ARMADO Y Ø 1,80m. TENDRÁN LAS SIGUIENTES CARACTERÍSTICAS:

RESISTENCIA AL APLASTAMIENTO:

-CARGA DE ROTURA $\geq 240\text{KN/m}^2$

-CARGA DE FISURACIÓN $\geq 160\text{KN/m}^2$

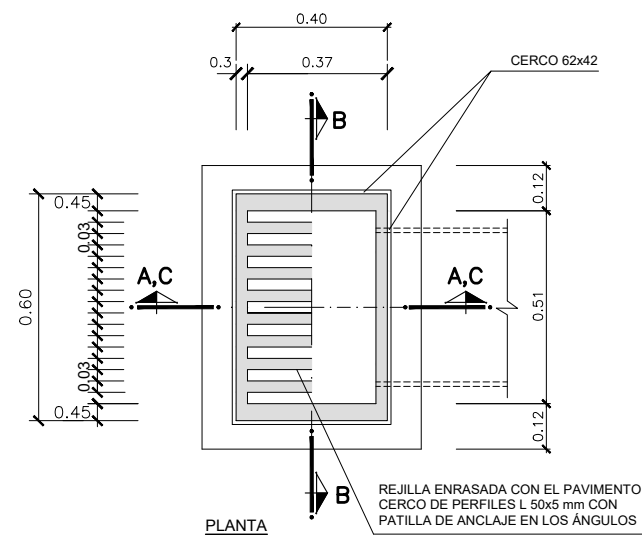
MATERIALES Y HORMIGÓN:

-CUMPLIRÁN LA NORMA EHE.

-HORMIGONES CON CONTENIDO DE CEMENTO $\geq 280\text{Kg/m}^3$

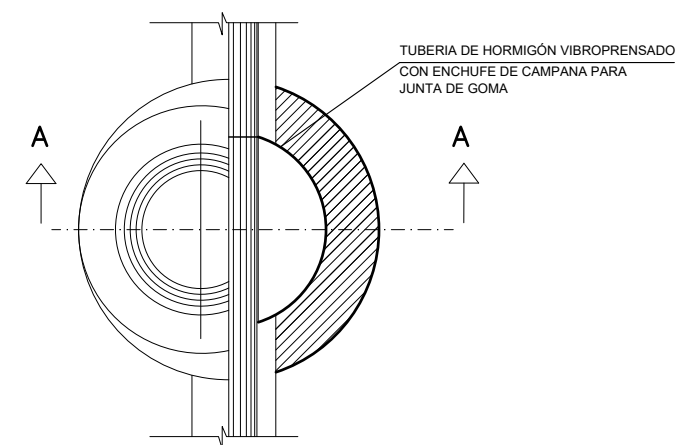
Y RELACIÓN AGUA CEMENTO ≤ 0.50

ARMADURAS



REJILLA

ESCALA 1:10



0.90
CUNETETA

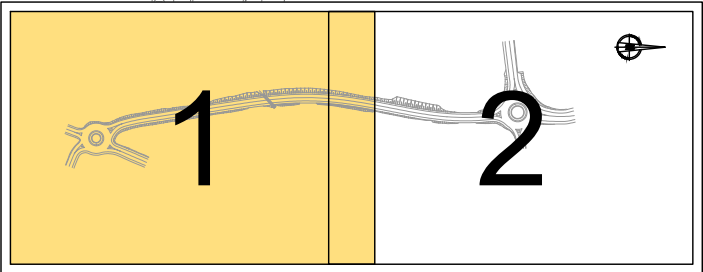
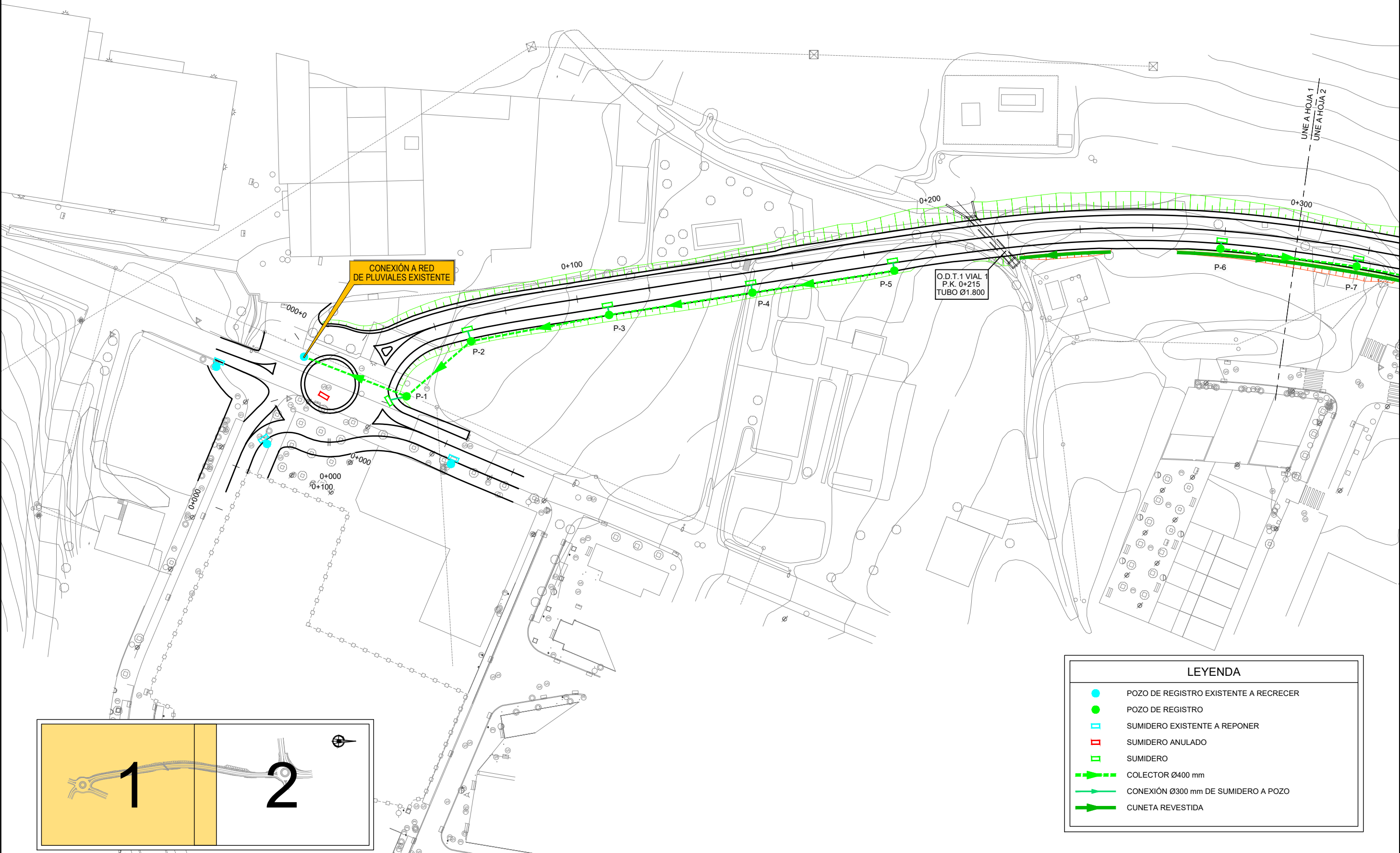
3 2 2 3

0.10

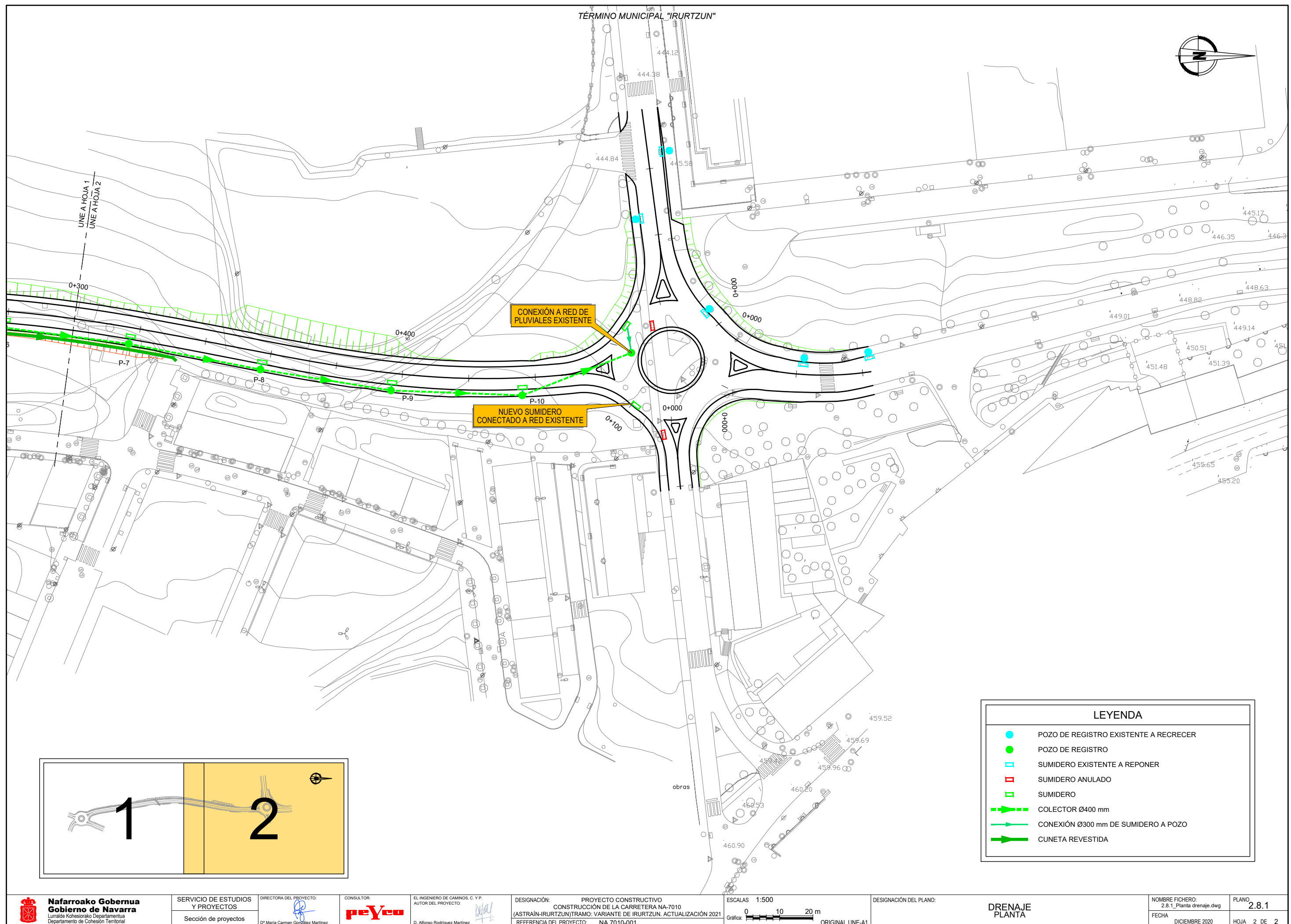
HORMIGÓN HM-20

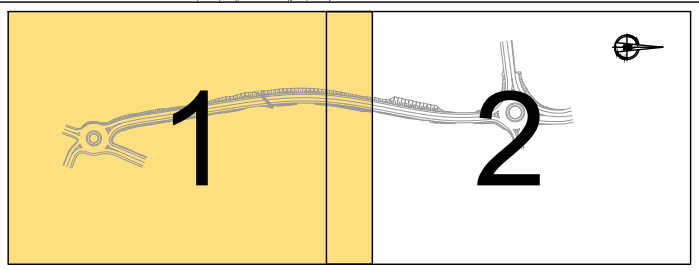
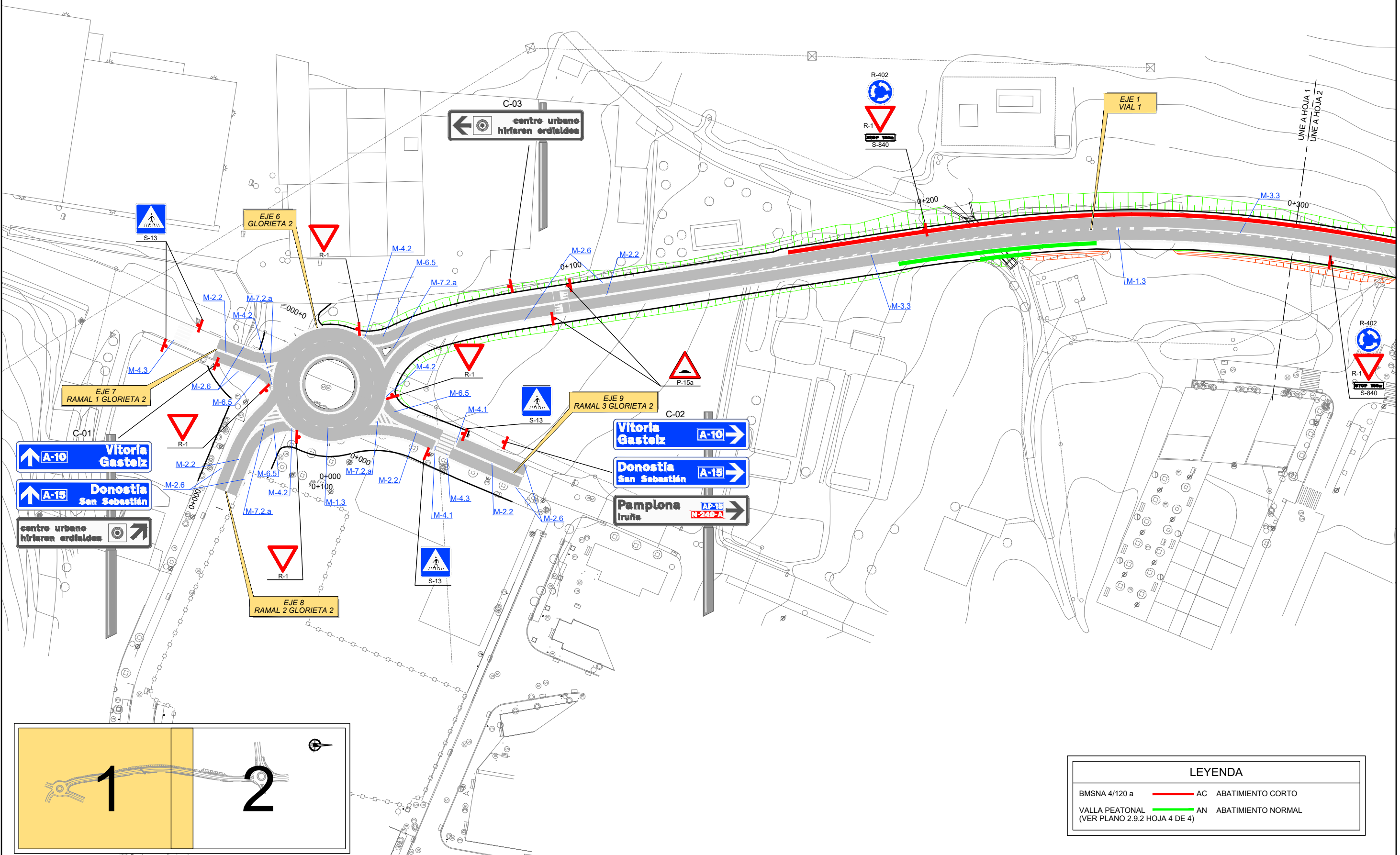
CUNETA REVESTIDA
ESCALA 1:20

DIÁMETRO TUBULAR Ø cm	a m	b m
30	0,30	0,40
40	0,40	0,35
50	0,49	0,305
60	0,566	0,267

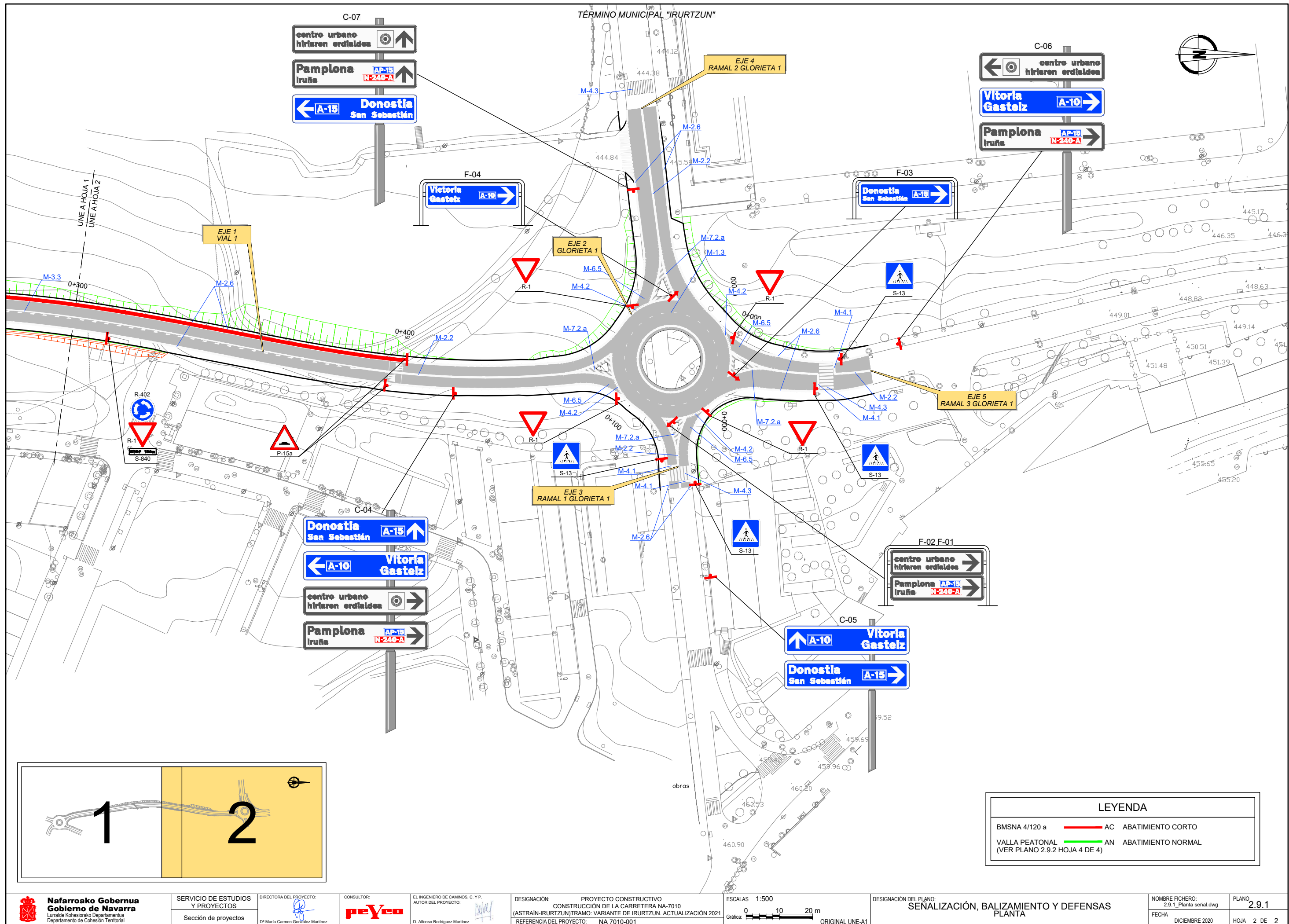


LEYENDA	
	POZO DE REGISTRO EXISTENTE A RECRECER
	POZO DE REGISTRO
	SUMIDERO EXISTENTE A REPONER
	SUMIDERO ANULADO
	SUMIDERO
	COLECTOR Ø400 mm
	CONEXIÓN Ø300 mm DE SUMIDERO A POZO
	CUNETA REVESTIDA

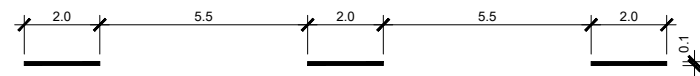
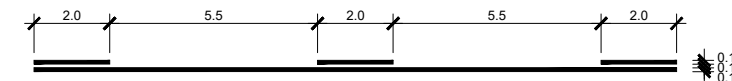




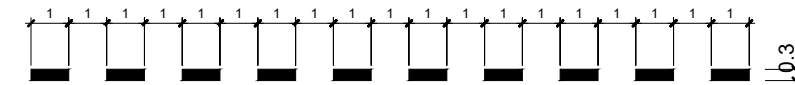
LEYENDA			
BMSNA 4/120 a	AC	ABATIMIENTO CORTO	
VALLA PEATONAL (VER PLANO 2.9.2 HOJA 4 DE 4)	AN	ABATIMIENTO NORMAL	



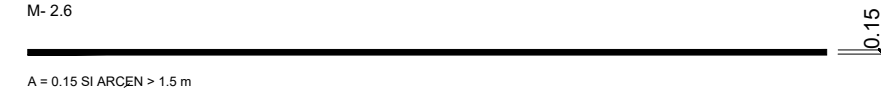
VIAS CON VM < 60 Km/h
M-1.3

VIAS CON VM < 60 Km/h
M-2.2VIAS CON VM < 60 Km/h
M-3.3

EN VIA CON VM ≤ 100 Km/h
M- 1.7



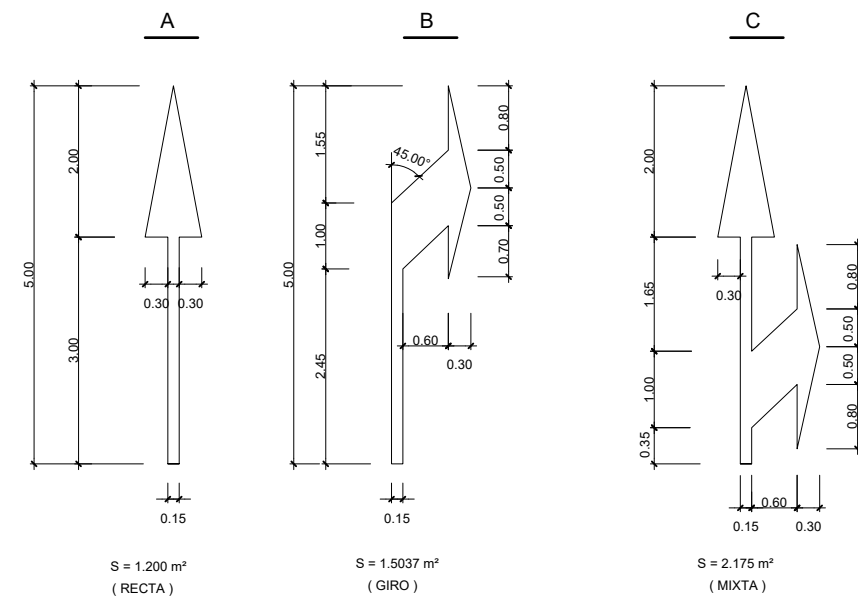
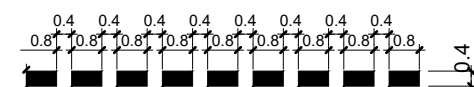
VIAS CON VM < 100 Km/h
M- 2.6



M-4.1

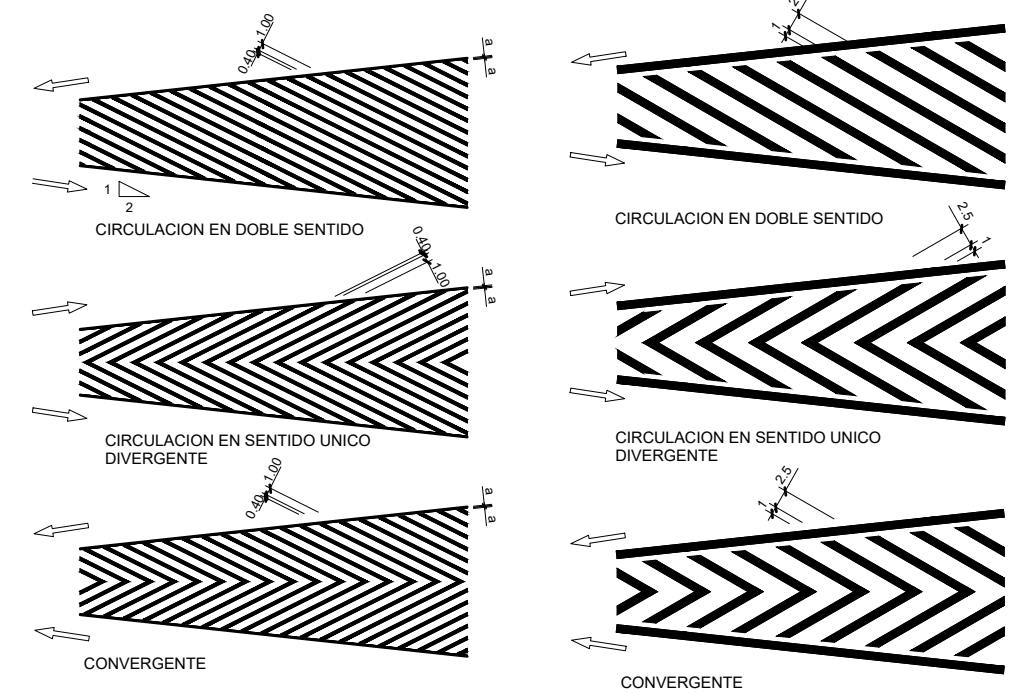
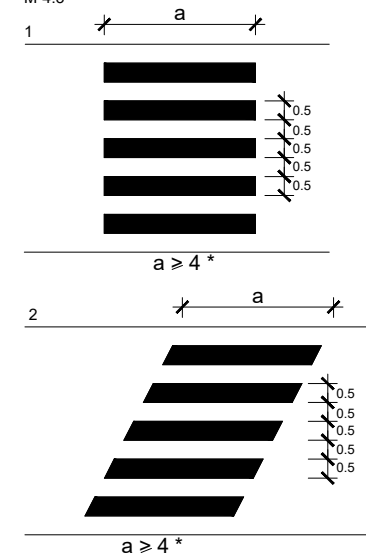


M-4.2



MARCA PARA PASO DE PEATONES

M-4.3



CEBREADOS M-7.2

VIA CON $VM_{\text{max}} < 60 \text{ Km/h}$

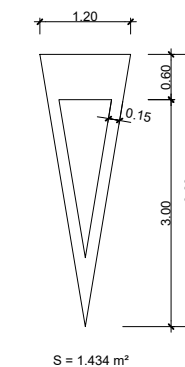
CEBREADOS M-7.1

VIA CON VM > 60 Km/h

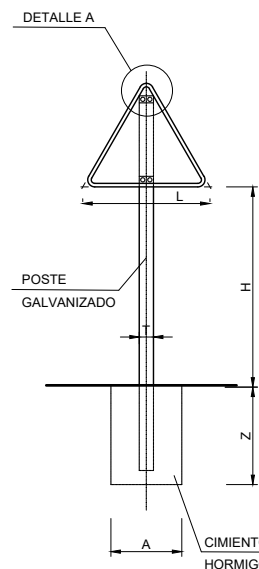


VIA CON VM < 60 Km/h; M-6.4.

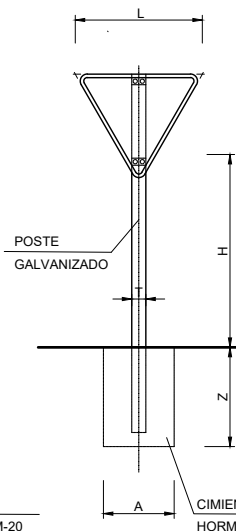
VIA CON VM < 60 Km/h; M-6.3.



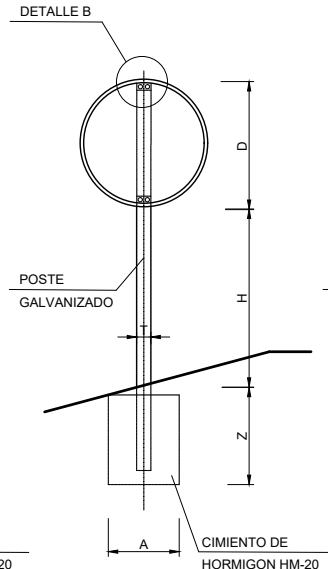
M-6.5. CEDA EL PASO



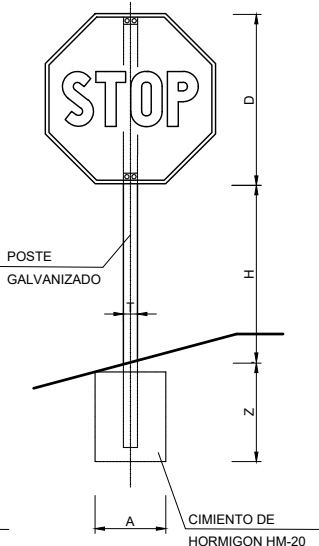
TIPO-1
ESQUEMATICO



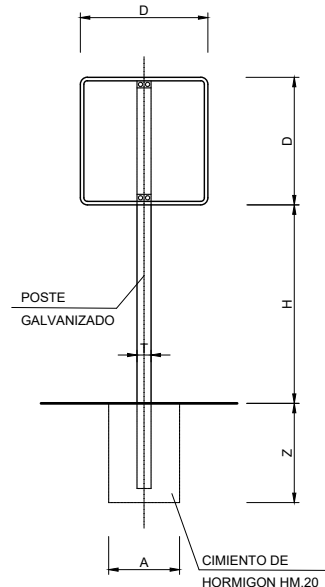
TIPO-2
ESQUEMATICO



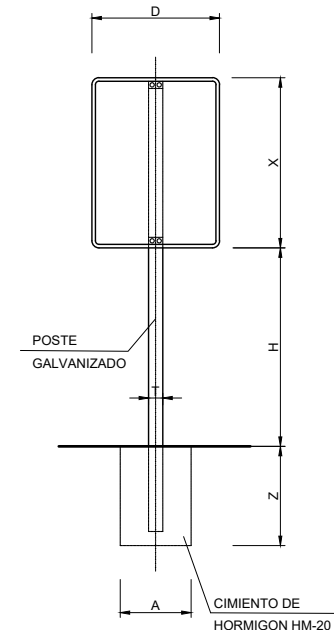
TIPO-3
ESQUEMATICO



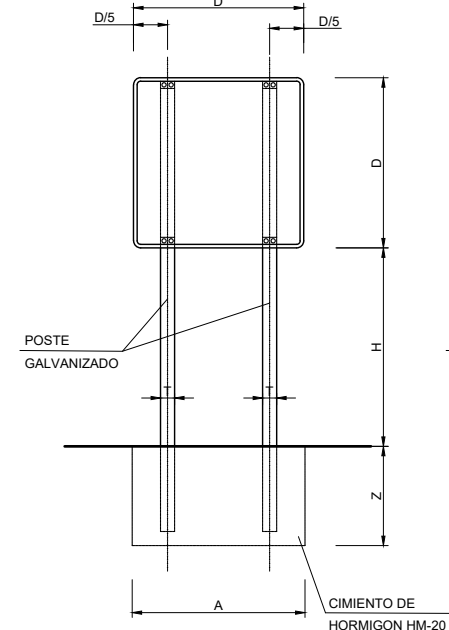
TIPO-4
ESQUEMATICO



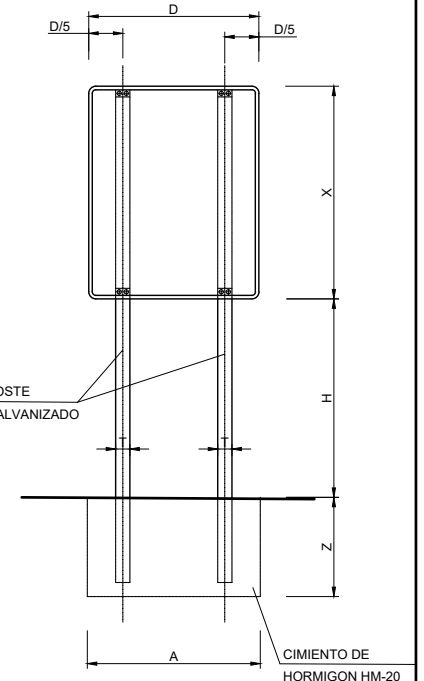
TIPO-5
ESQUEMATICO



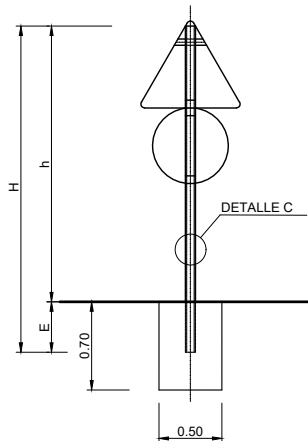
TIPO-6
ESQUEMATICO



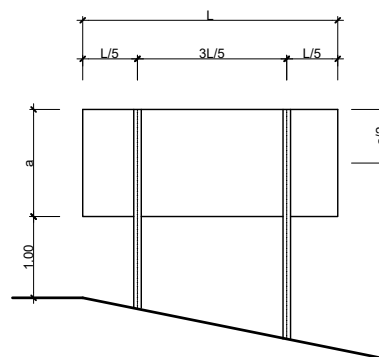
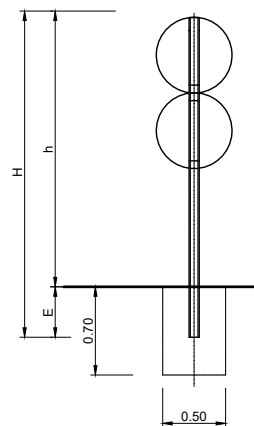
TIPO-7
ESQUEMATICO



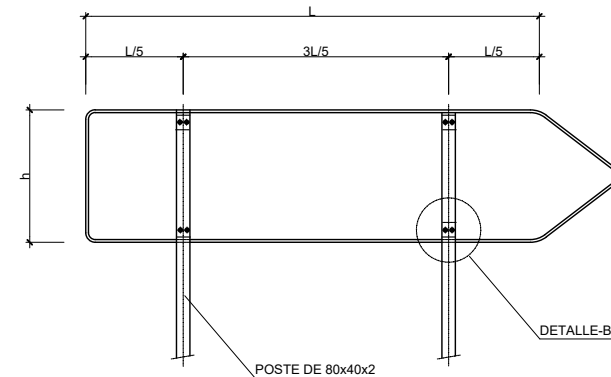
TIPO-8
ESQUEMATICO



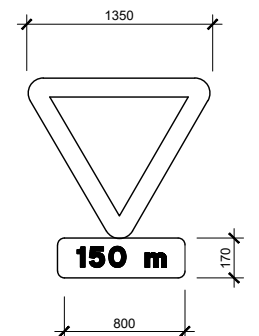
POSTES DE DOS SEÑALES
ESQUEMATICO



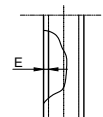
ESQUEMA DE CARTEL
EN CHAPA DE ACERO
ESQUEMATICO



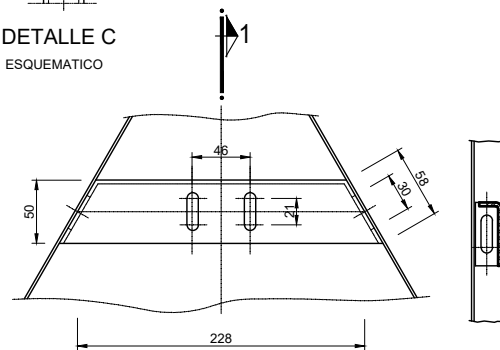
SEÑAL RECTANGULAR L>1000
ESQUEMATICO



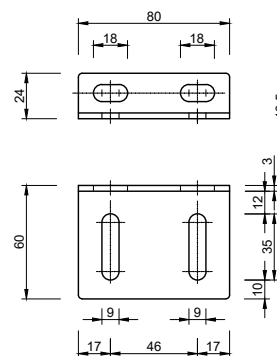
PRESEÑALIZACION DE STOP
ESQUEMATICO



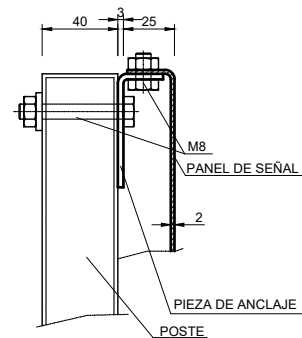
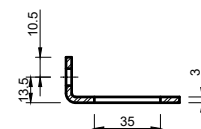
DETALLE C
ESQUEMATICO



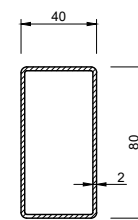
DETALLE-A
ESCALA=1/2



PIEZA DE ANCLAJE
ESCALA=1/2



DETALLE-B
ESCALA=1/2



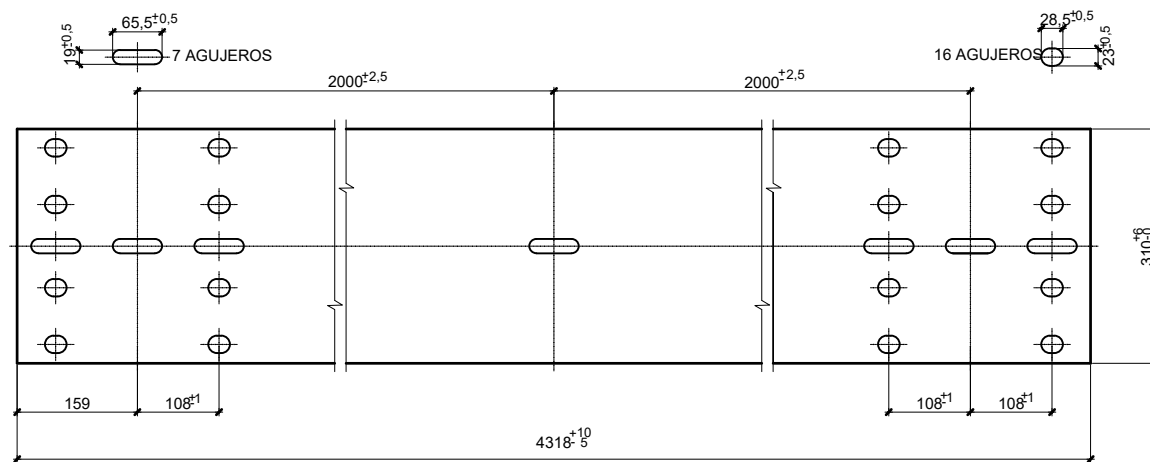
TIPO DE SEÑAL	1 Y 2	3	4	5 Y 7	6 Y 8
SERIE B CARRETERA CONVENCIONAL CON ARCENES					
SERIE C CARRETERA CONVENCIONAL SIN ARCENES					

NOTAS	SERIE			SERIE B						SERIE C					
	SEÑAL TIPO			1	2	3	4	5	6	1	2	3	4	5	6
	ALTURA = Hm			1.90	1.90	1.90	1.90	1.90	1.90	1.50	1.50	1.50	1.50	1.50	1.50
	MEDIDAS TUBO mm.	T	100	100	100	100	100	120	80	80	80	80	80	80	80
		P	50	60	50	50	60	60	40	40	40	40	40	40	40
CIMENTACION m.	E	3	3	3	3	3	3	2	2	2	2	2	2	3	
	A	0.70	0.80	0.55	0.60	0.70	0.80	0.40	0.45	0.55	0.55	0.40	0.40	0.65	
	B	0.50	0.40	0.40	0.40	0.40	0.50	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
	Z	0.70	0.70	0.70	0.70	0.70	0.80	0.60	0.60	0.60	0.50	0.50	0.60	0.60	

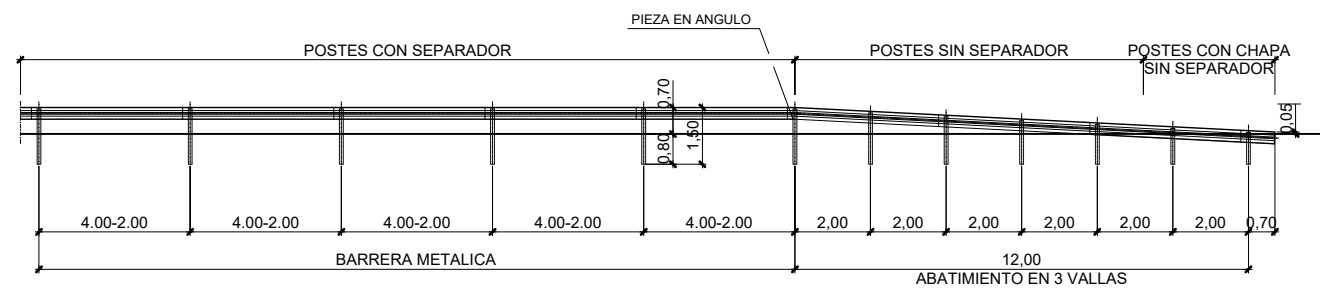
Technical drawing of a rectangular plate with the following specifications:

- Overall Dimensions:**
 - Width: 4318^{+10}_{-5}
 - Height: 3110^{+8}_{-5}
- Sectional Details:**
 - Top Left Section:** Shows a hole with a diameter of $65.5^{+0.5}_{-0.5}$ and a distance of 130.5 from the top edge.
 - Top Right Section:** Shows a hole with a diameter of $28.5^{+0.5}_{-0.5}$ and a distance of $23^{+0.5}_{-0.5}$ from the top edge.
- Hole Patterns:**
 - Left End:** Labeled "3 AGUJEROS" (3 holes). It features a vertical column of 3 holes and a horizontal row of 4 holes.
 - Right End:** Labeled "16 AGUJEROS" (16 holes). It features a vertical column of 4 holes and a horizontal row of 8 holes.
- Internal Spacing and Segments:**
 - Distance between the left end and the first internal segment: 159
 - Distance between the first and second internal segments: 108^{+1}_{-1}
 - Length of the first internal segment: $2000^{+2.5}_{-2.5}$
 - Length of the second internal segment: $2000^{+2.5}_{-2.5}$
 - Distance between the second and third internal segments: 108^{+1}_{-1}
 - Distance between the third and fourth internal segments: 108^{+1}_{-1}

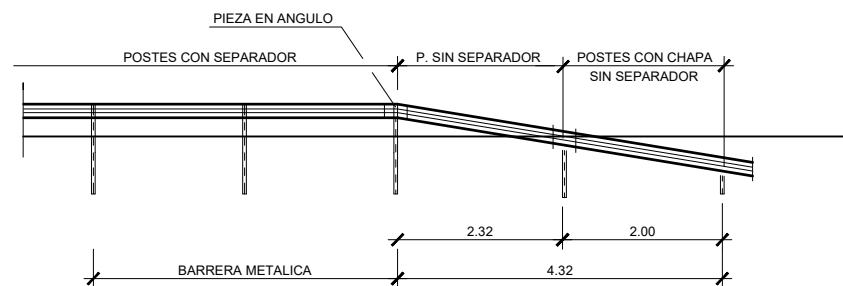
ESCALA 1: 5



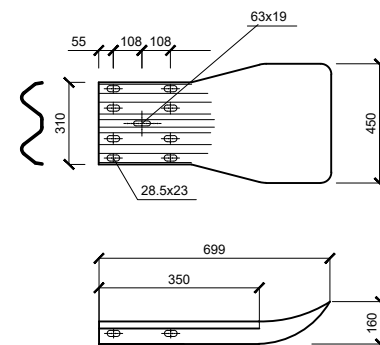
ESCALA 1: 5



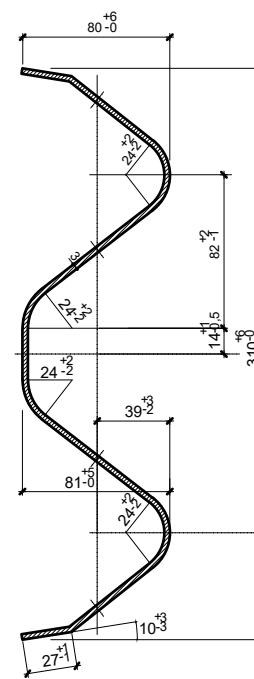
ESCALA 1: 100



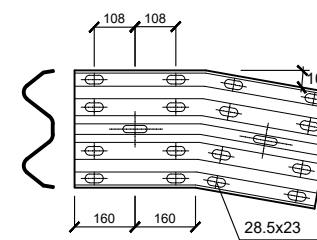
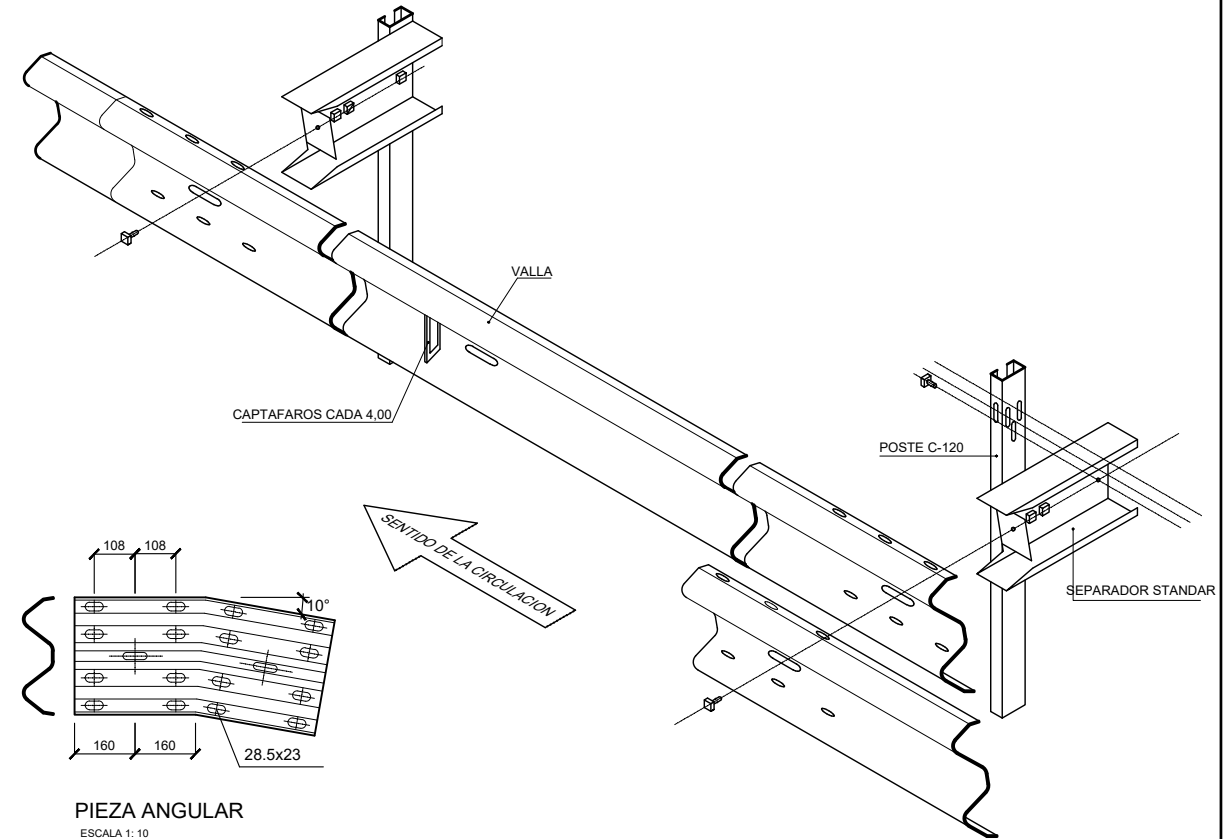
ESCALA 1: 100



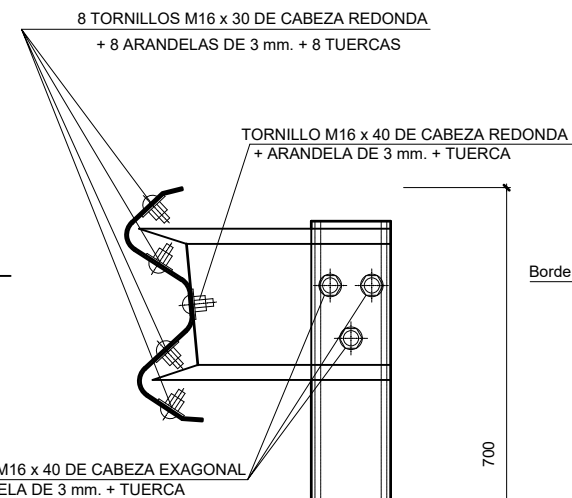
FINAL DE BARRERA EN COLA DE PEZ
SIN ESCALA



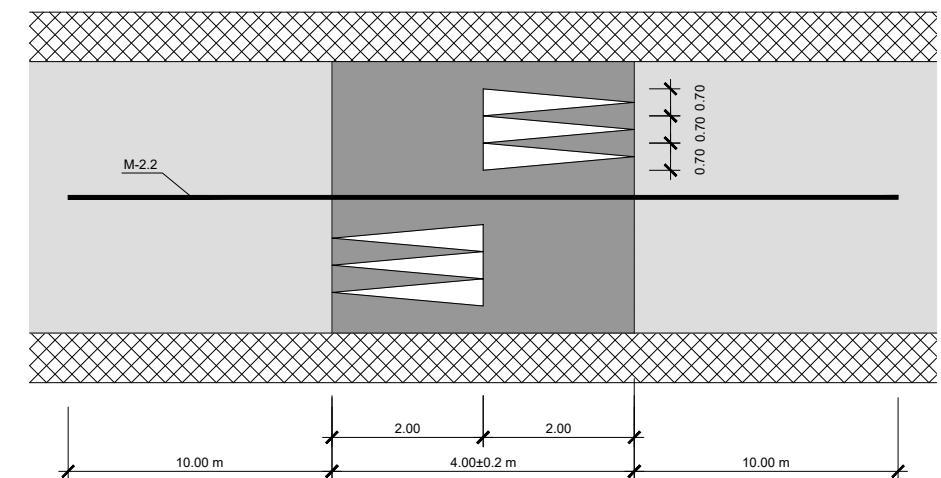
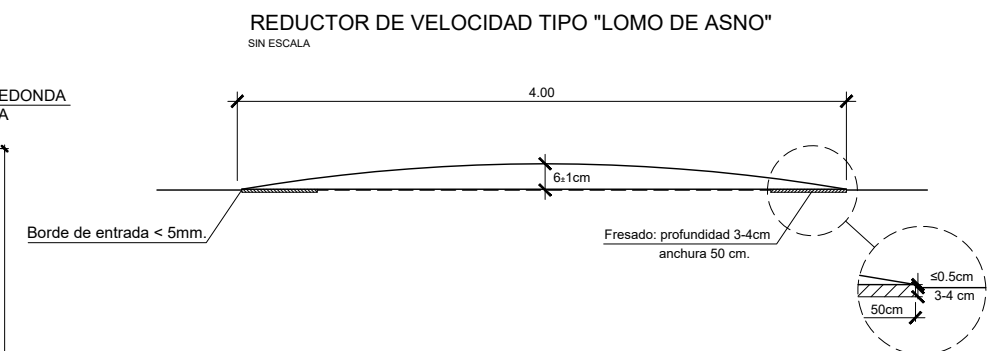
ESCALA 1: 2

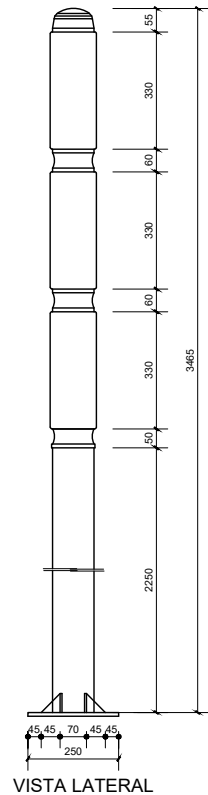
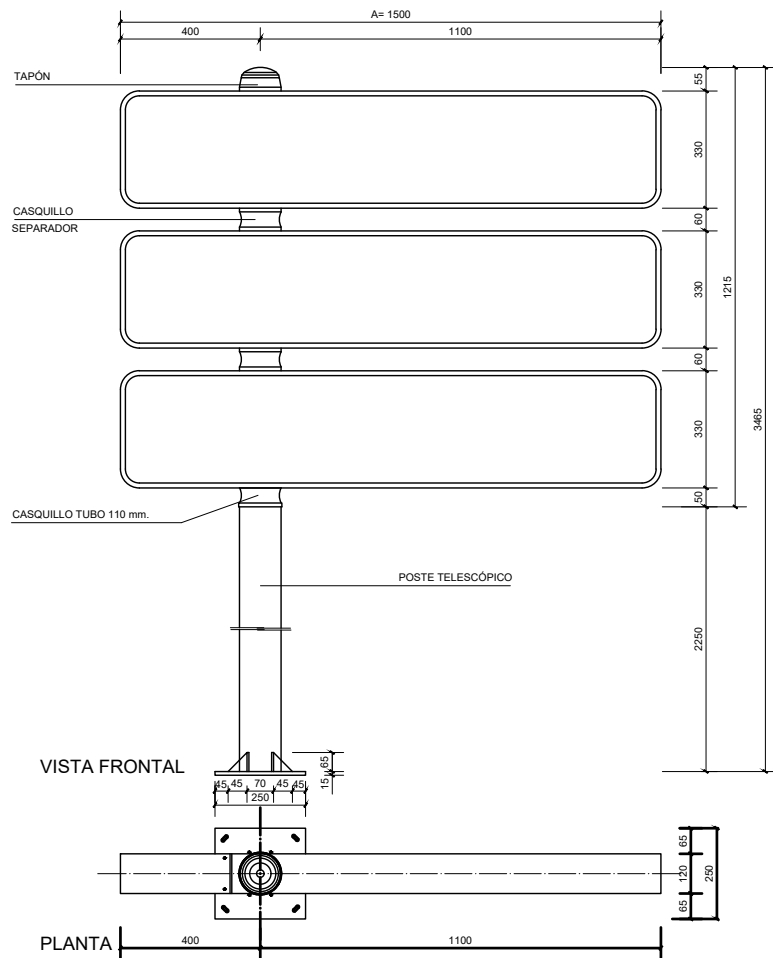


ESCALA 1: 10



ESCALA 1: 5





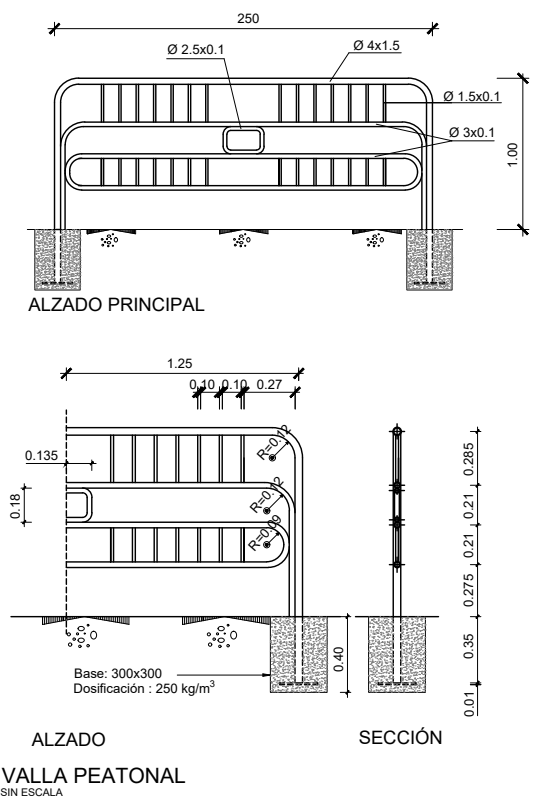
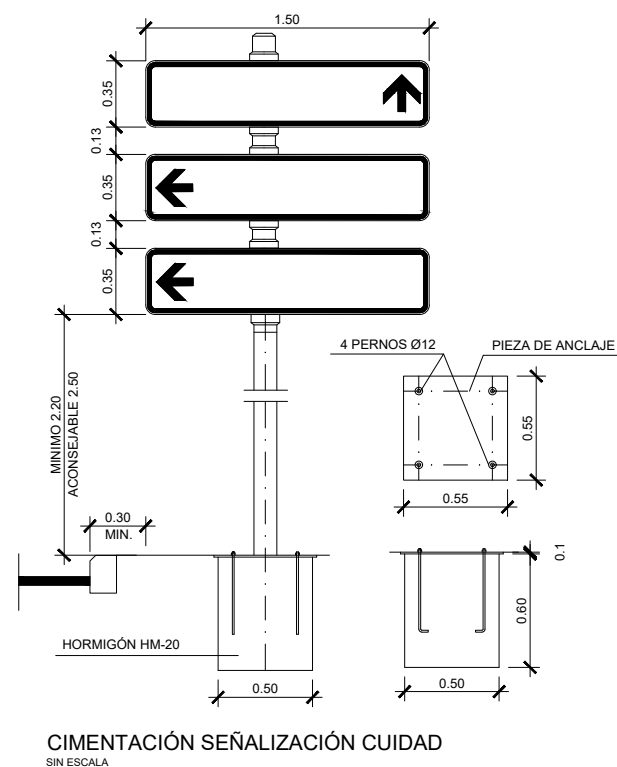
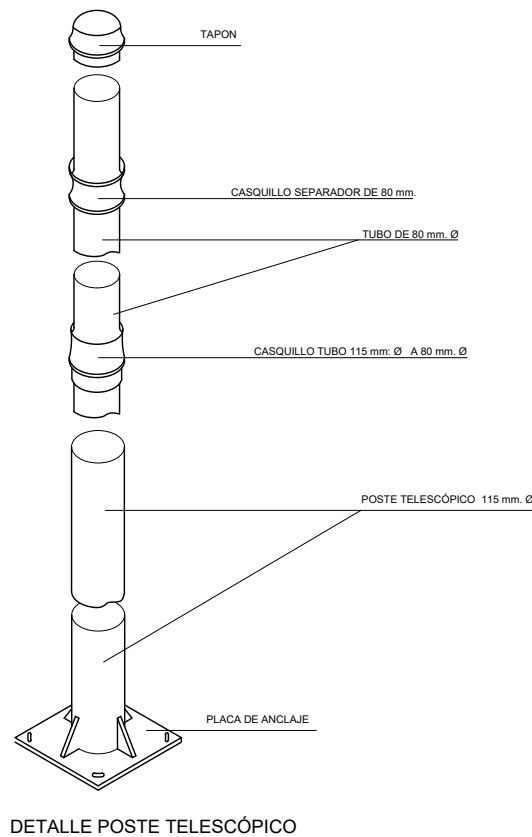
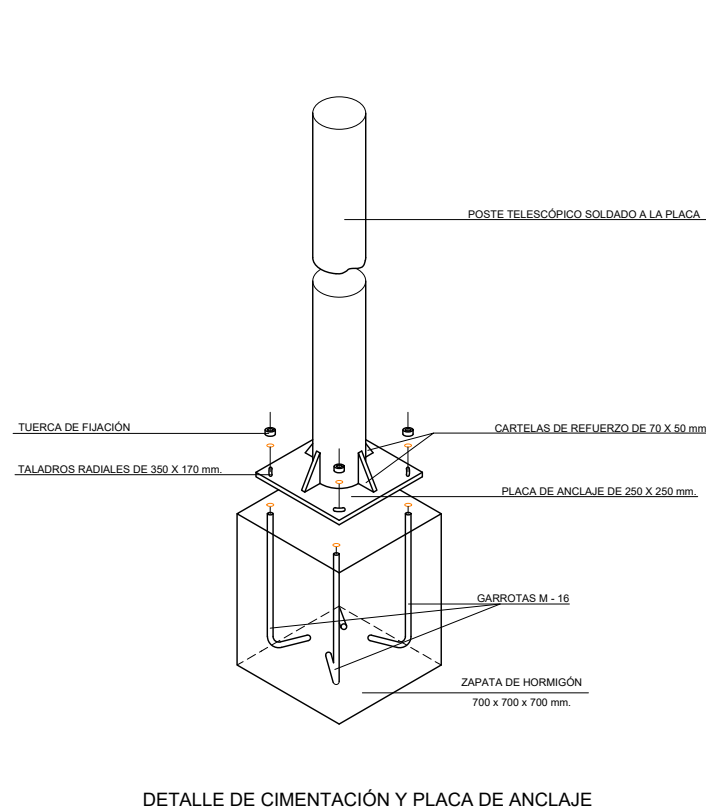
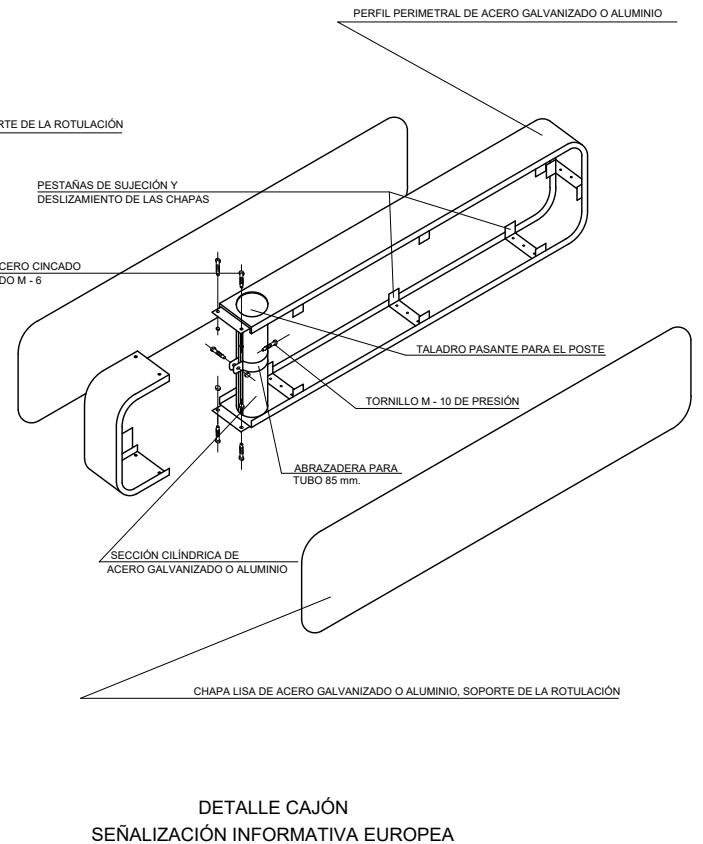
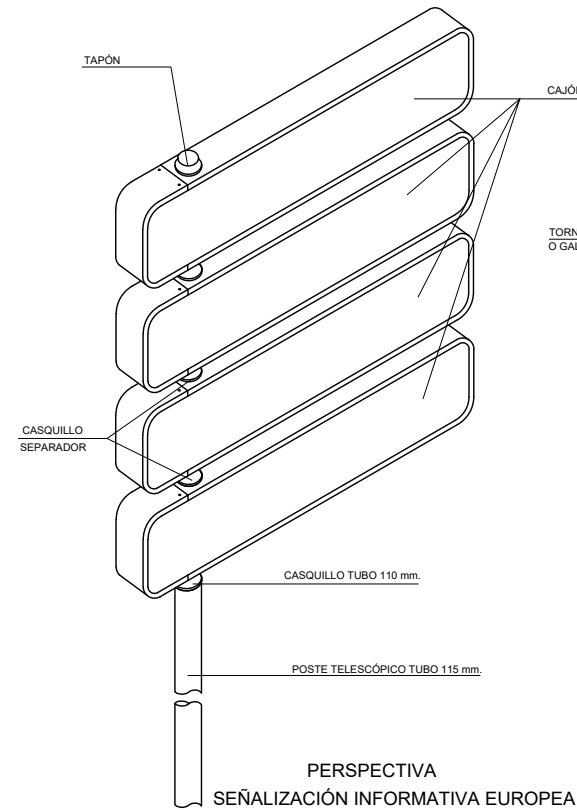
NOTA

TUBO TELESCÓPICO DE 100 mm. Ø
PARA INFORMATIVA DE 2
MÓDULOS

TUBO TELESCÓPICO DE 115 mm. Ø
PARA INFORMATIVA DE TRES O
MÁS MÓDULOS

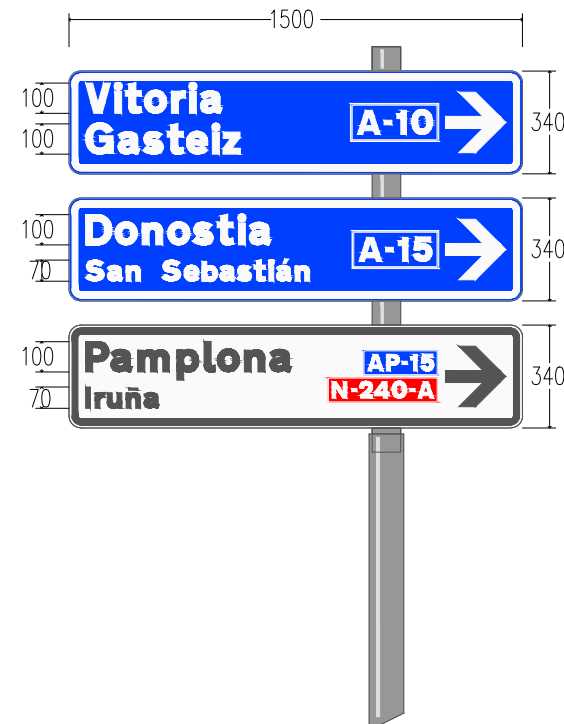
MEDIDAS DE LOS MÓDULOS
VARIABLES :

H = D2 25 A 40 cms.
A = DE 100 A 175 cms.





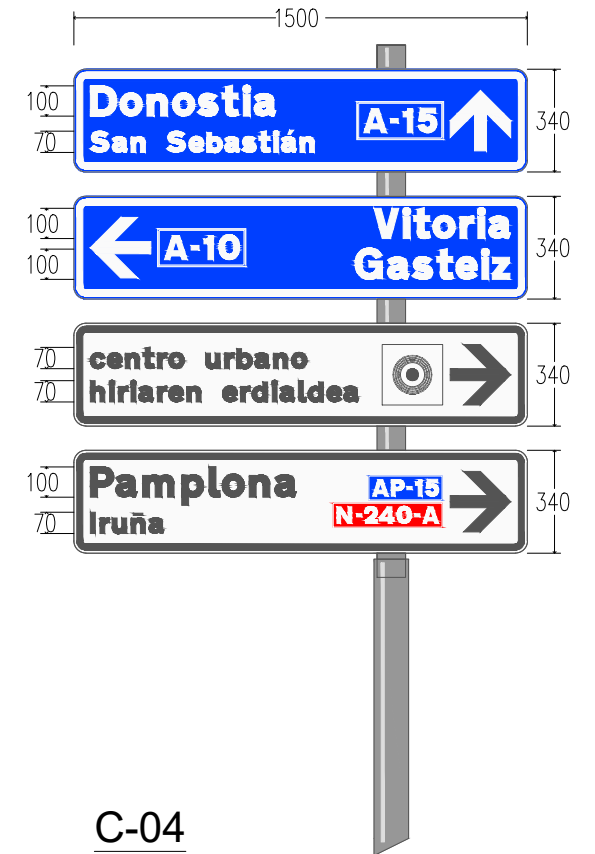
C-01



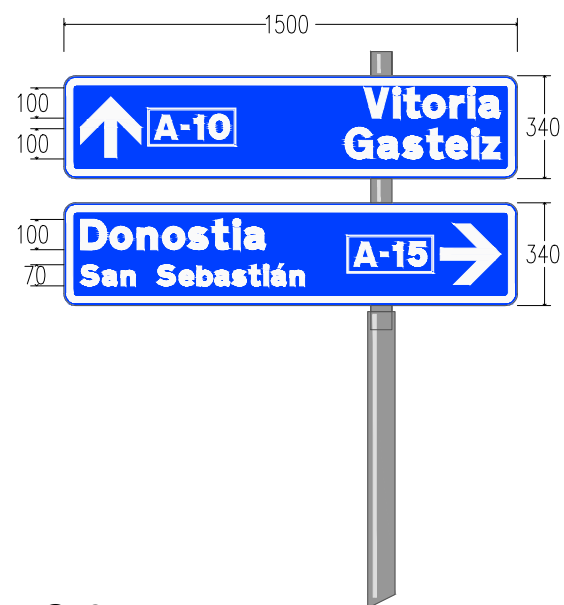
C-02



C-03



C-04



C-05



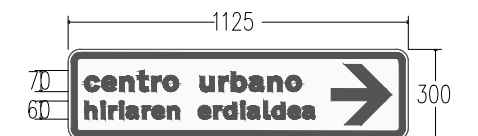
C-06



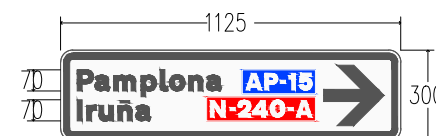
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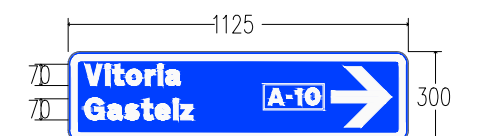
F-08



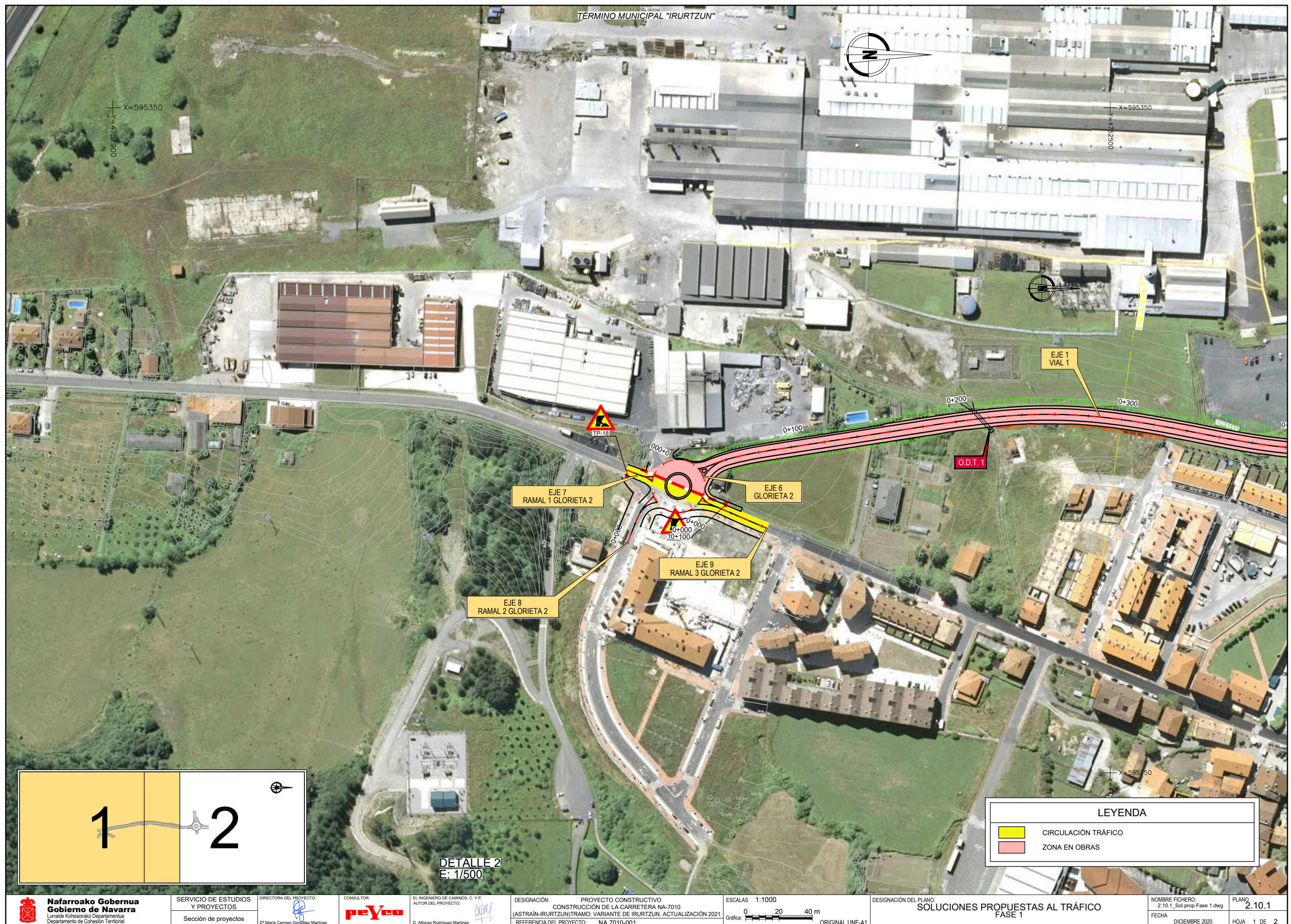
F-02

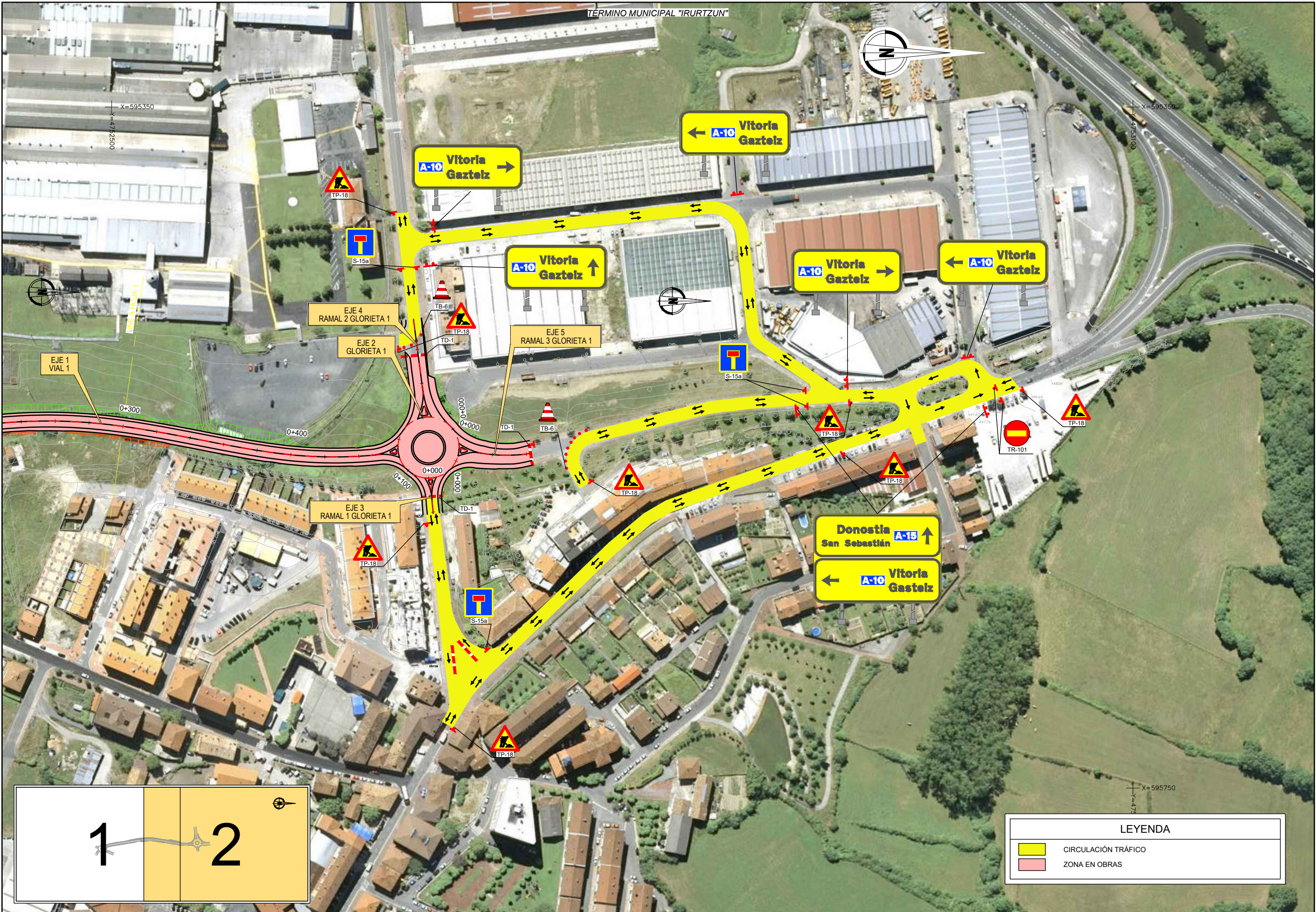


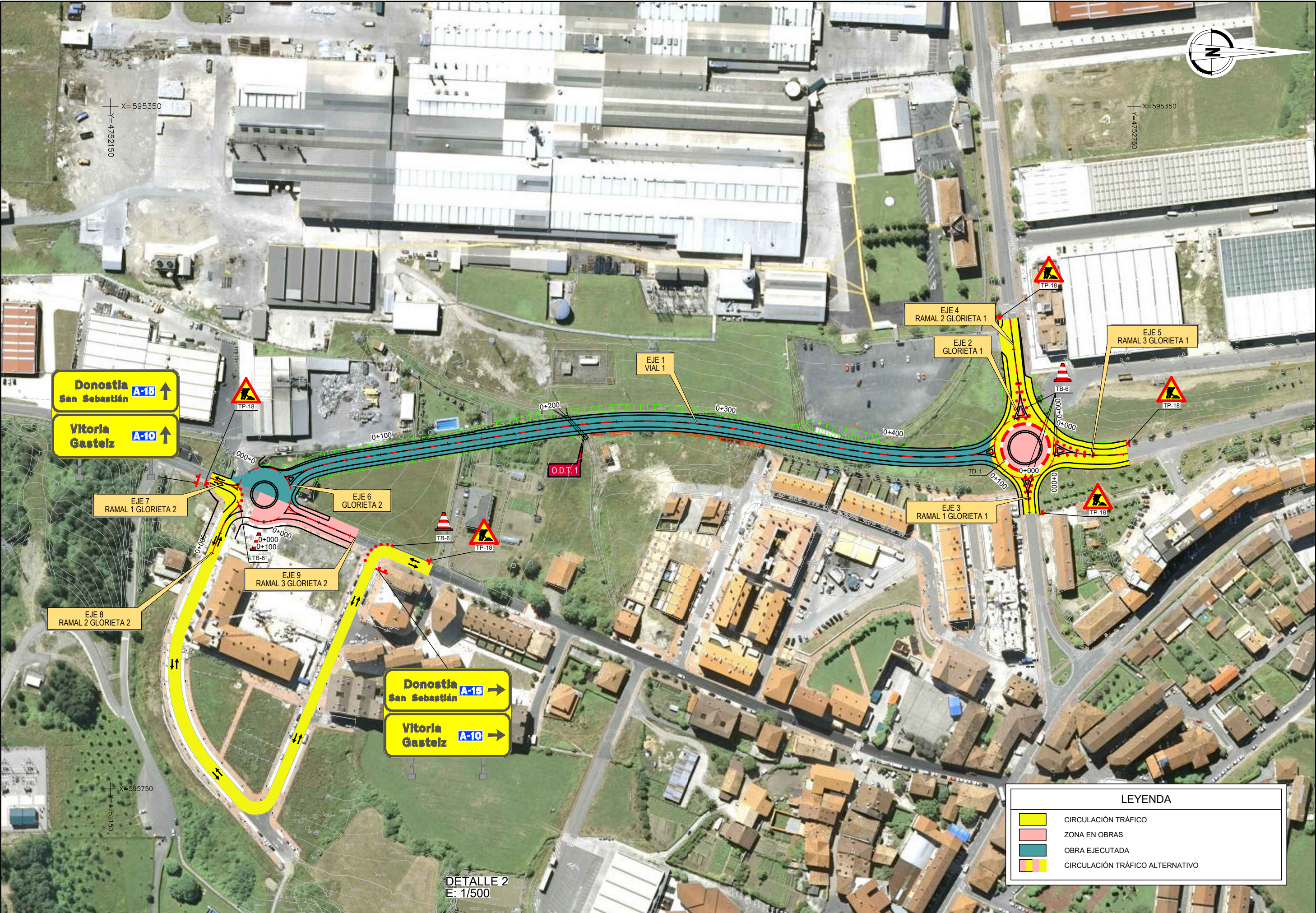
F-01



F-04

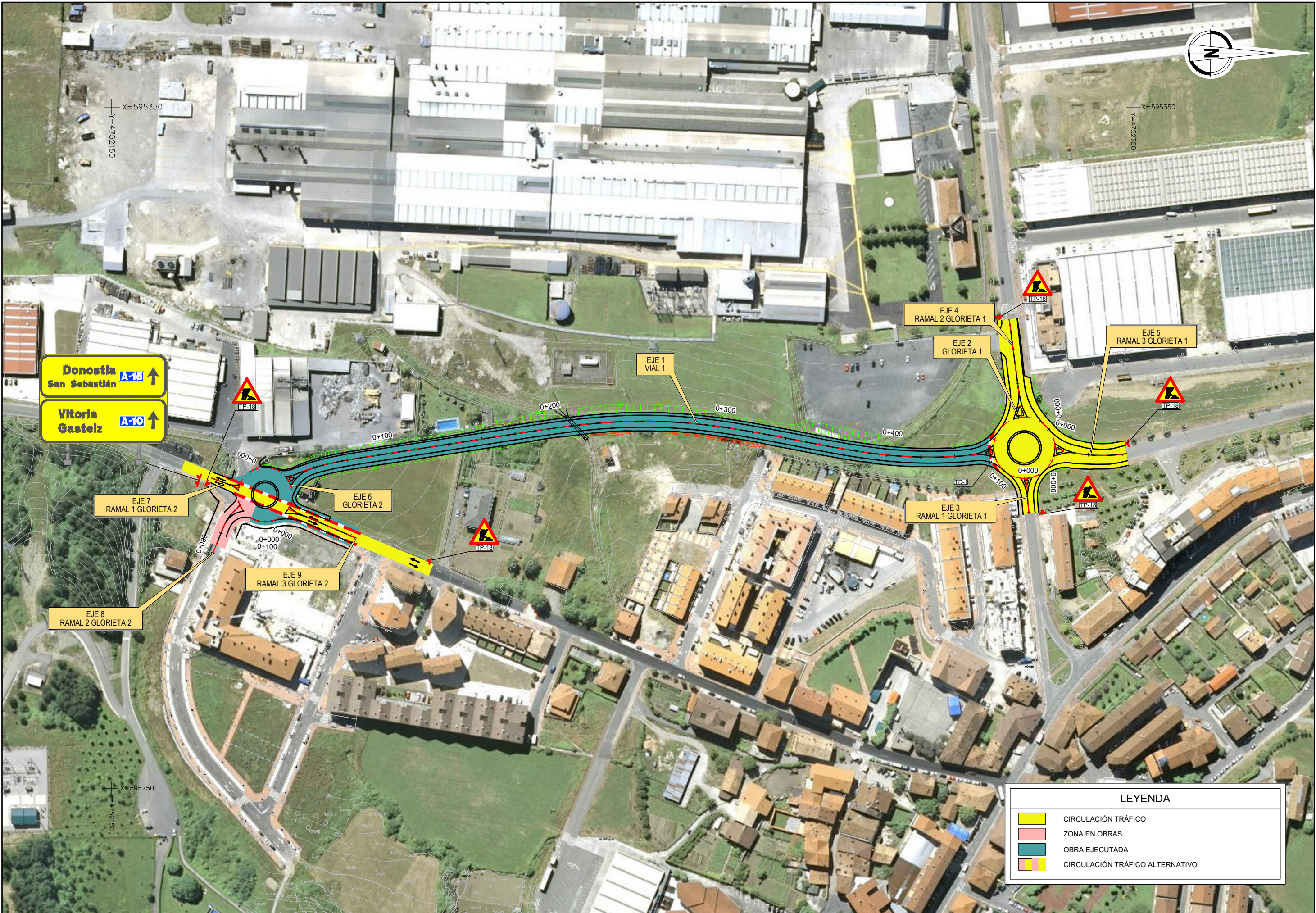






DETALLE 2
E: 1/500

LEYENDA	
	CIRCULACIÓN TRÁFICO
	ZONA EN OBRAS
	OBRA EJECUTADA
	CIRCULACIÓN TRÁFICO ALTERNATIVO



Donostia
San Sebastián

Vitoria
Gasteiz

EJE 7
RAMAL 1 GLORIETA 2

EJE 6
GLORIETA 2

EJE 9
RAMAL 3 GLORIETA 2

EJE 8
RAMAL 2 GLORIETA 2

EJE 1
VIAL 1

EJE 4
RAMAL 2 GLORIETA 1

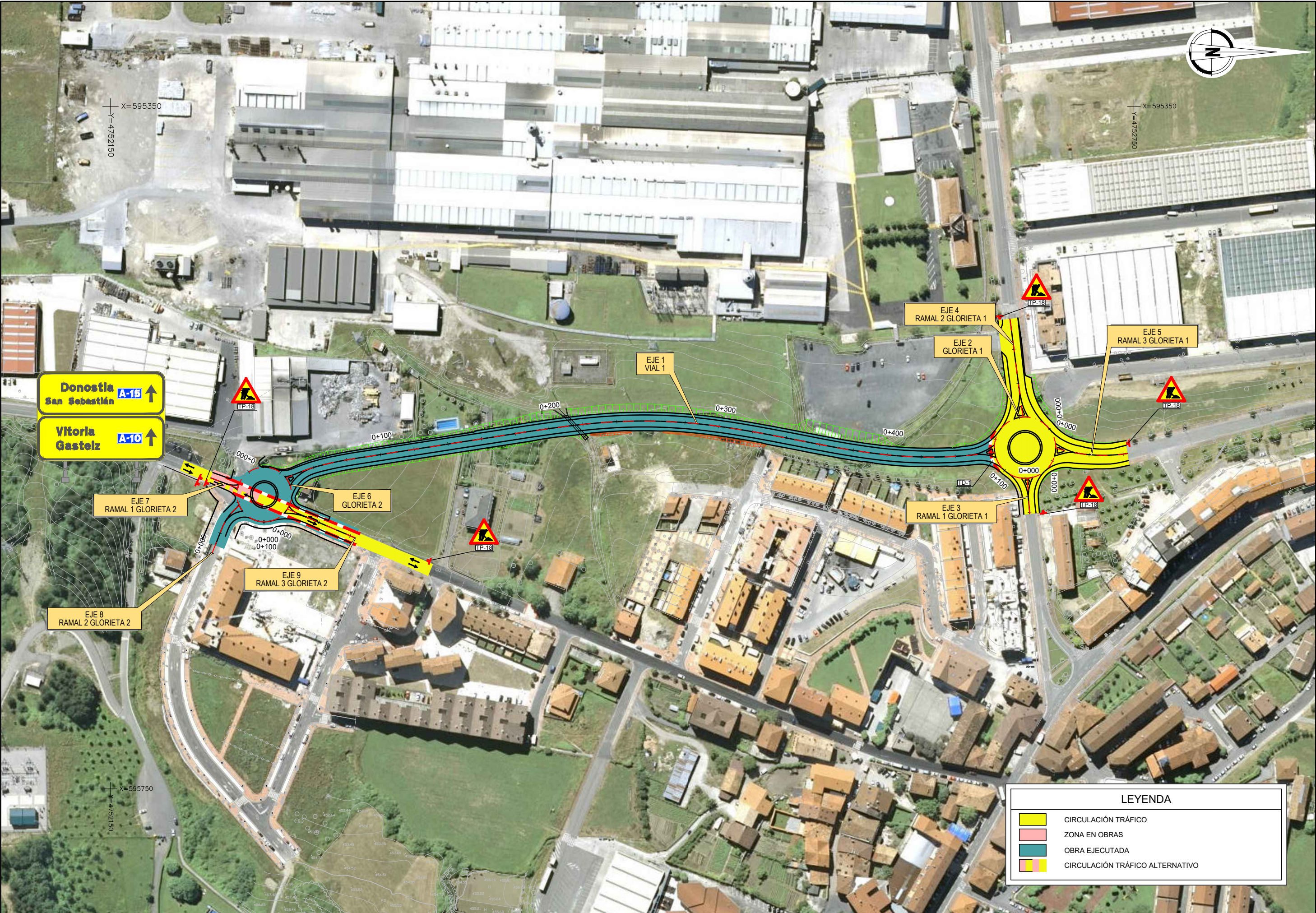
EJE 2
GLORIETA 1

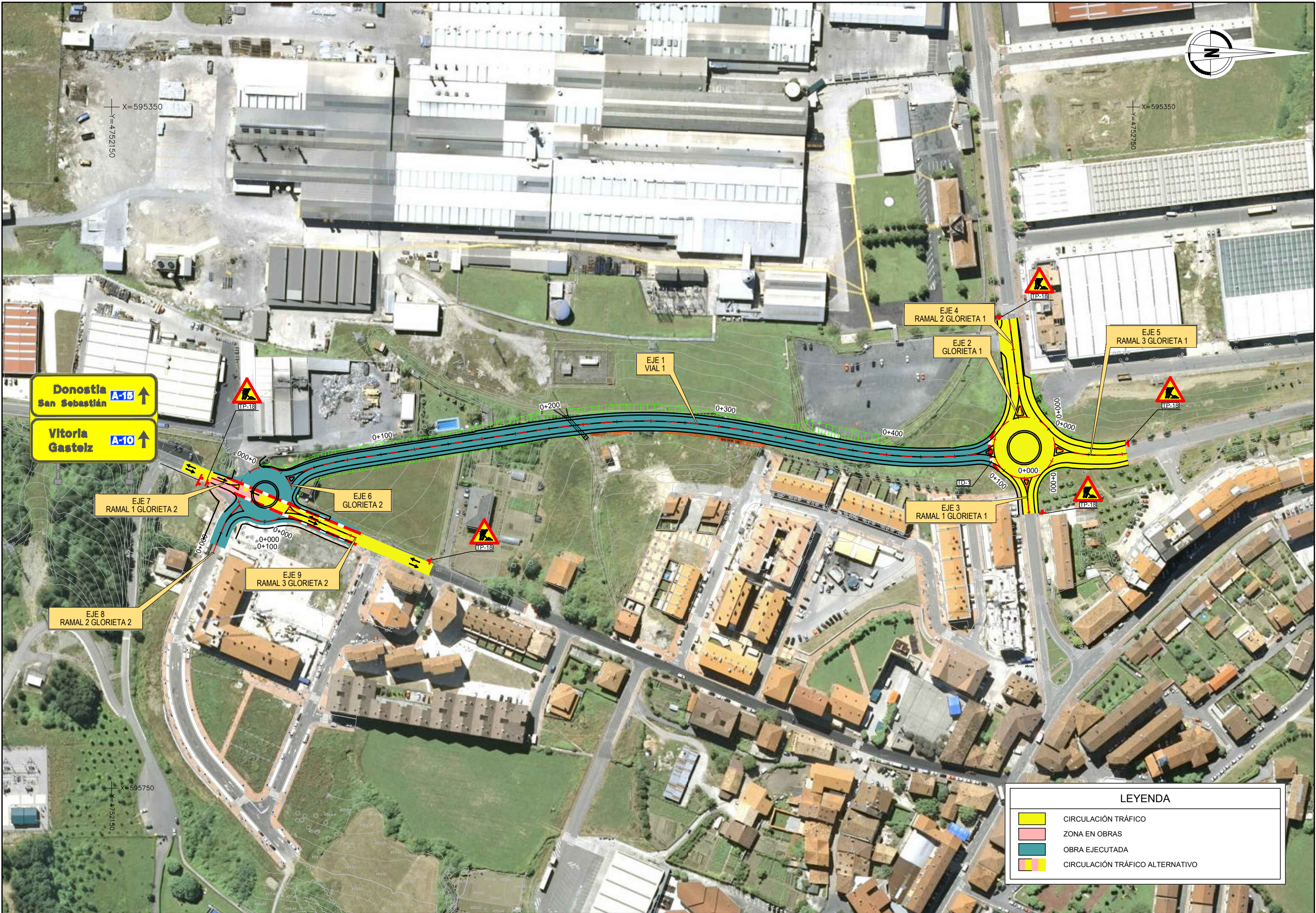
EJE 5
RAMAL 3 GLORIETA 1

EJE 3
RAMAL 1 GLORIETA 1

LEYENDA

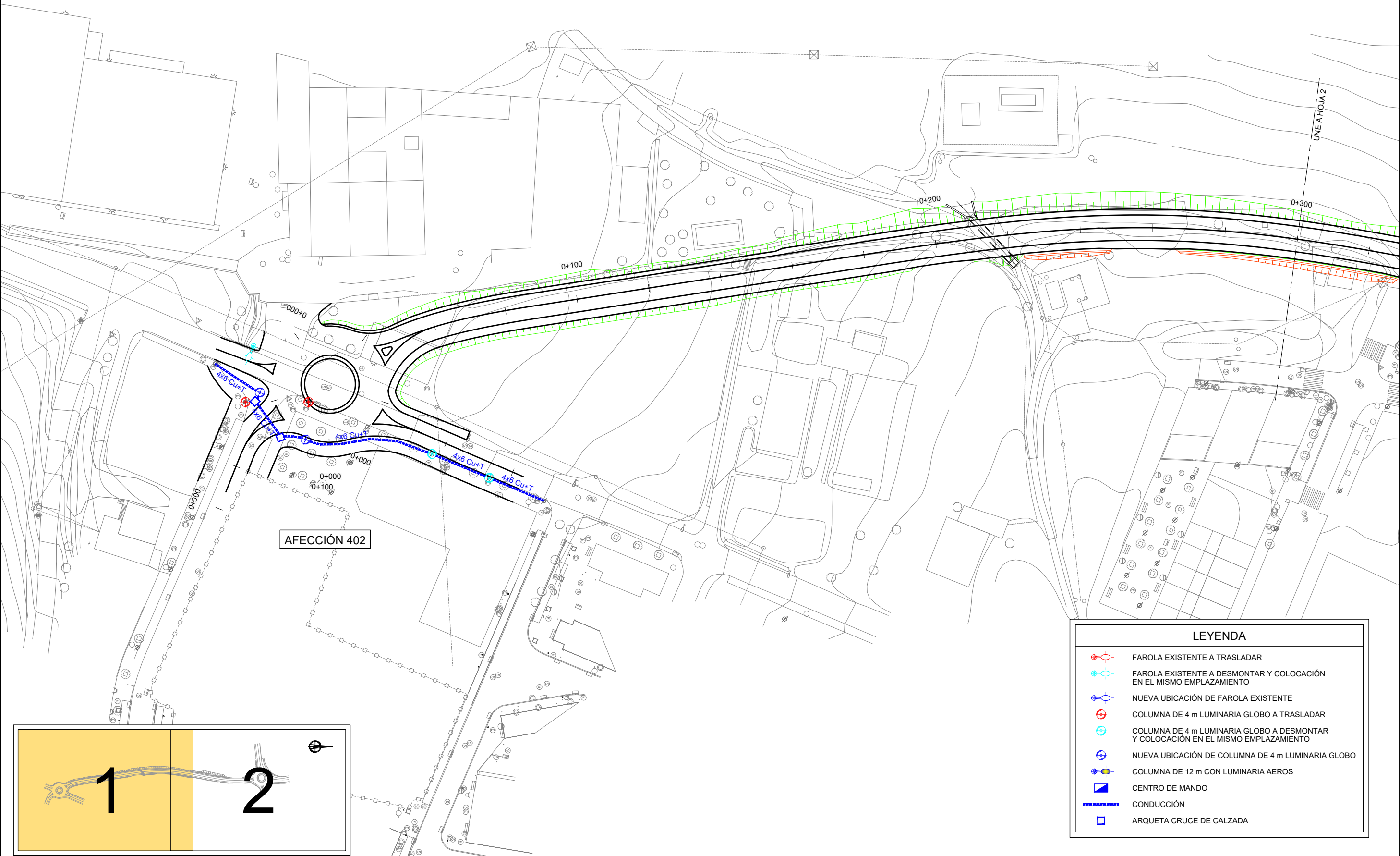
- CIRCULACIÓN TRÁFICO
- ZONA EN OBRAS
- OBRA EJECUTADA
- CIRCULACIÓN TRÁFICO ALTERNATIVO





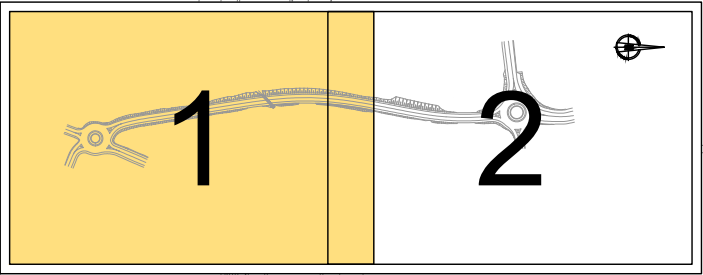
LEYENDA

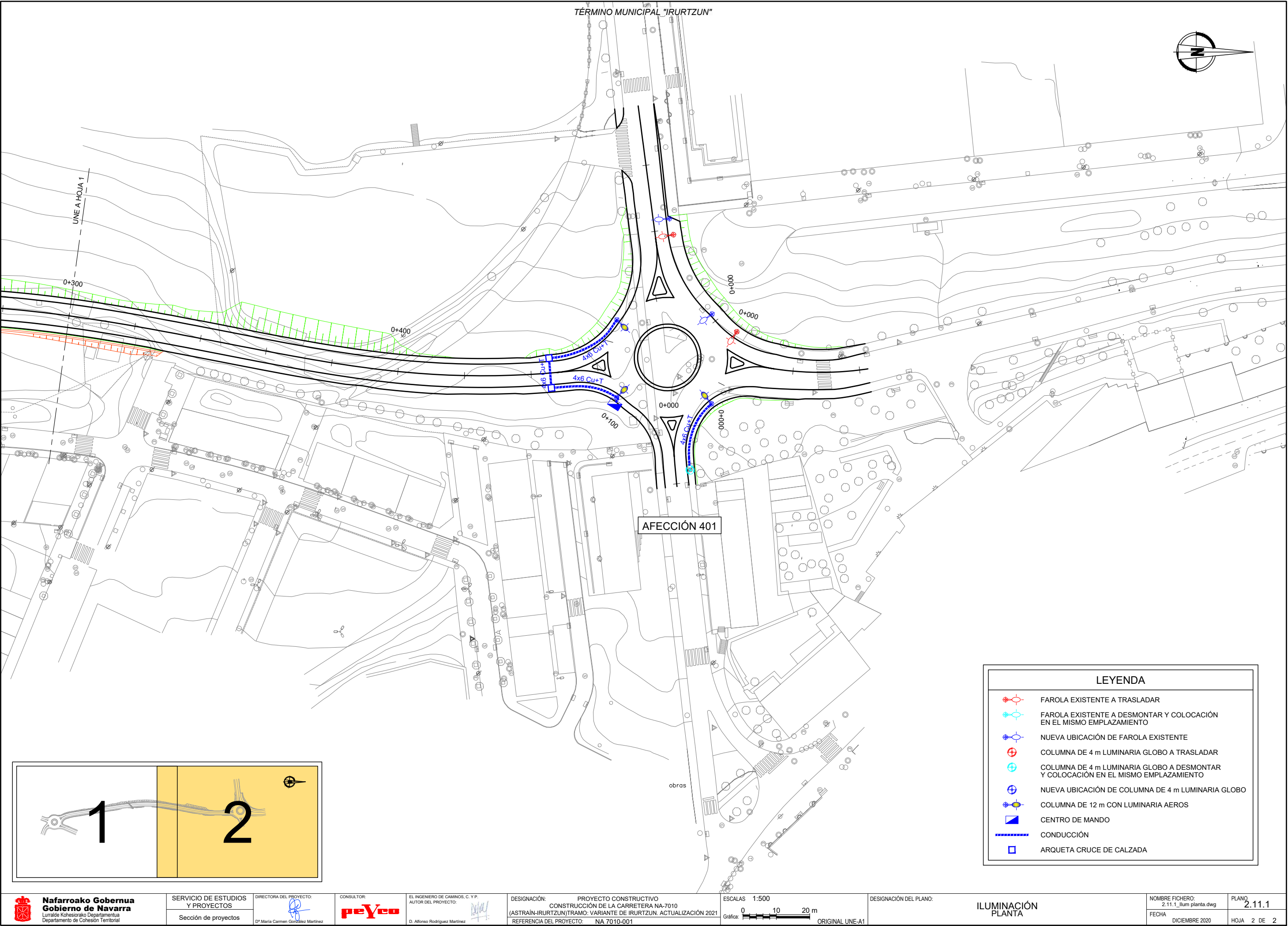
- CIRCULACIÓN TRÁFICO
- ZONA EN OBRAS
- OBRA EJECUTADA
- CIRCULACIÓN TRÁFICO ALTERNATIVO

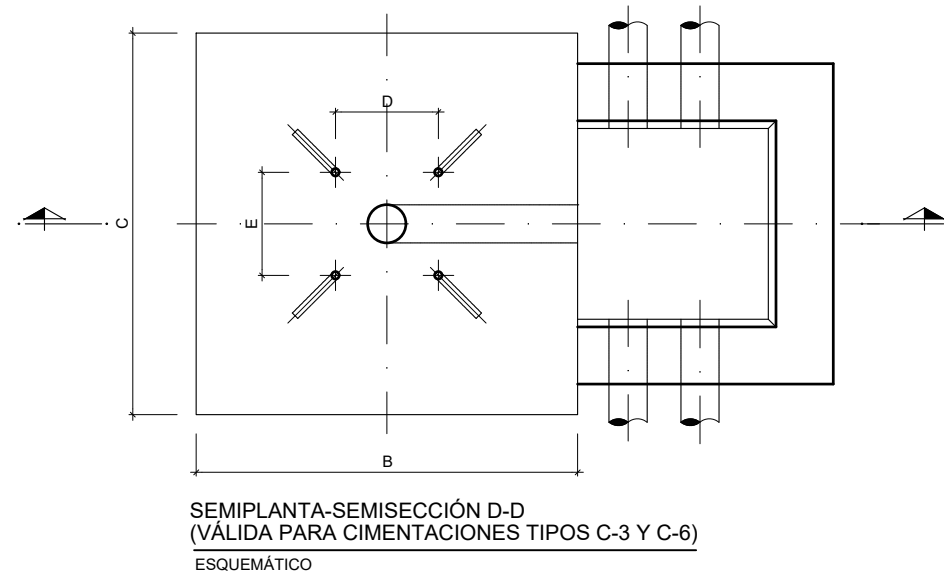
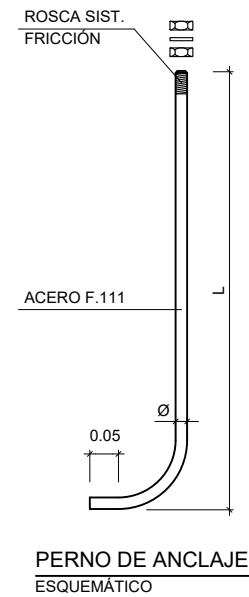
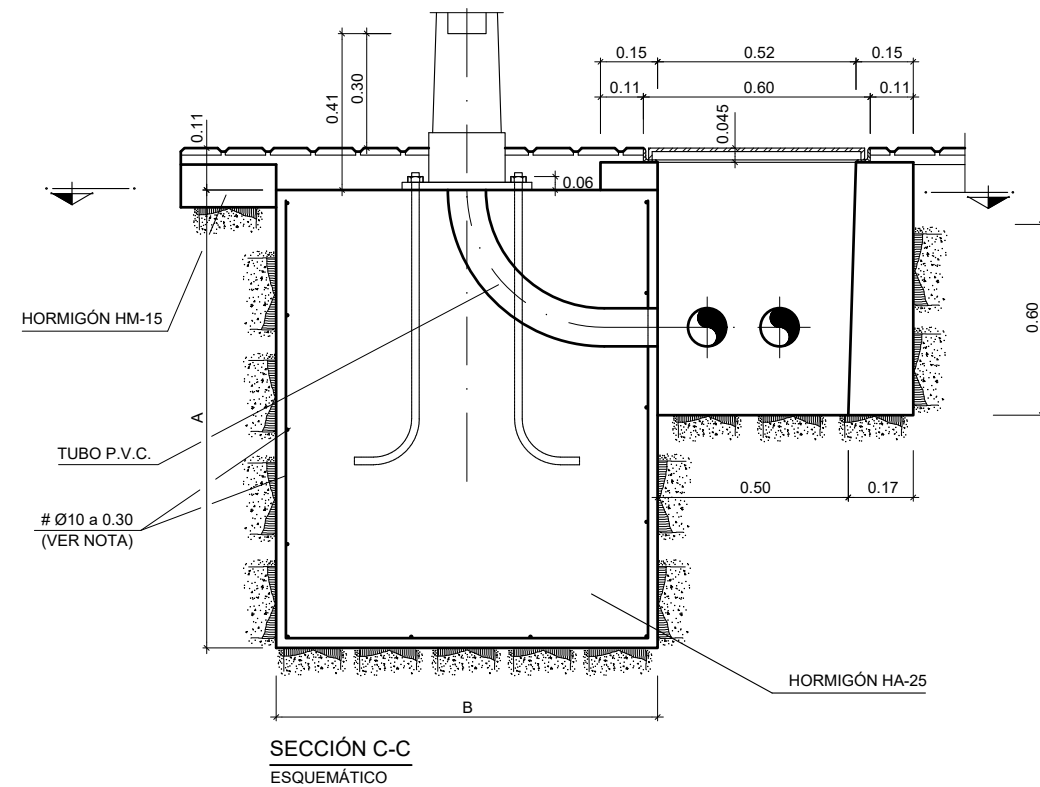


LEYENDA

- FAROLA EXISTENTE A TRASLADAR
- FAROLA EXISTENTE A DESMONTAR Y COLOCACIÓN EN EL MISMO EMPLAZAMIENTO
- NUEVA UBICACIÓN DE FAROLA EXISTENTE
- COLUMNA DE 4 m LUMINARIA GLOBO A TRASLADAR
- COLUMNA DE 4 m LUMINARIA GLOBO A DESMONTAR Y COLOCACIÓN EN EL MISMO EMPLAZAMIENTO
- NUEVA UBICACIÓN DE COLUMNA DE 4 m LUMINARIA GLOBO
- COLUMNA DE 12 m CON LUMINARIA AEROS
- CENTRO DE MANDO
- CONDUCCIÓN
- ARQUETA CRUCE DE CALZADA



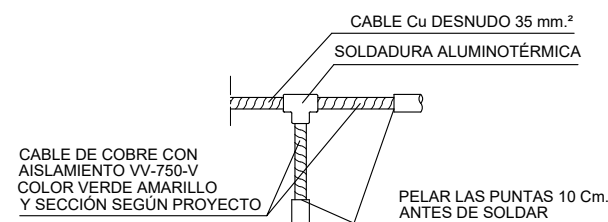
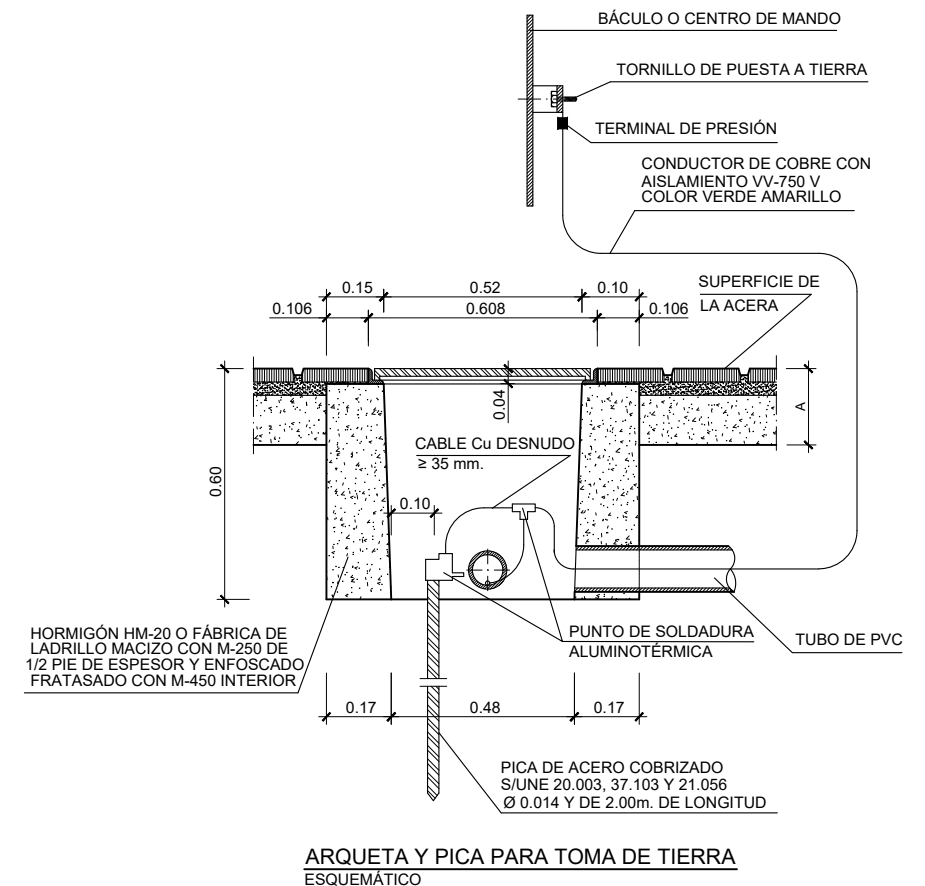




T I P O		DIMENSIONES EN CENTÍMETROS							
CIMEN.	SOPORTE	A	B	C	L	D	E	d	Ø
C-1	COLUMNA DE 12m.	120	80	80	70	28.5	28.5	-	2"
C-3	COLUMNA DE 4m.	70	70	70	50	21.5	21.5	-	1.4"

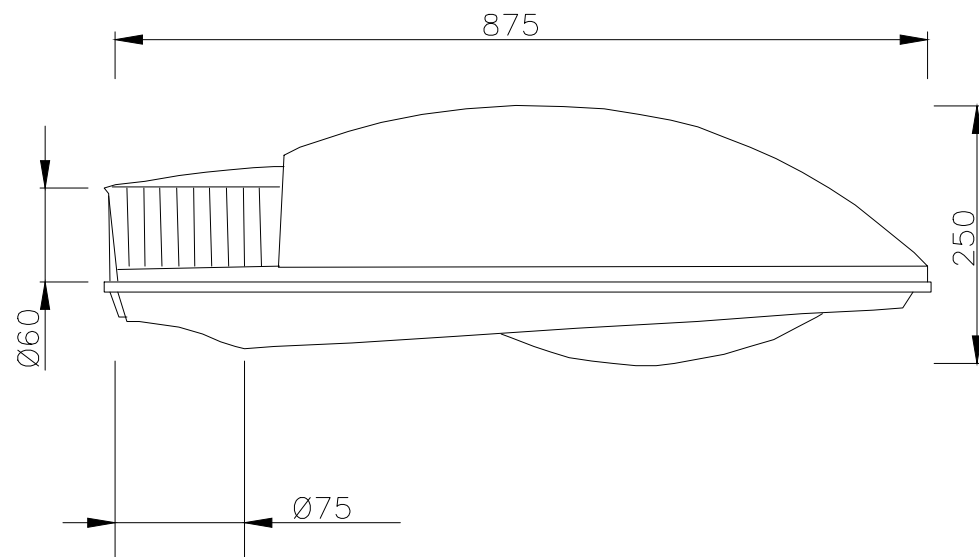
LA ARMADURA DE LA CIMENTACIÓN DE LOS SOPORTES SÓLO IRÁ EN LOS BÁCULOS DE 16m. DE ALTURA Y SERÁ DE ACERO B-500-S EN BARRAS CORRUGADAS.

• CUANDO LA CIMENTACIÓN DEL SOPORTE ESTÉ SITUADA EN ZONAS TERRIZAS O AJARDINADAS SE RELLENARÁ CON HORMIGÓN HM-15 EL VOLUMEN COMPRENDIDO ENTRE LA CARA SUPERIOR DE LA CIMENTACIÓN Y LA RASANTE DE DICHA ZONA

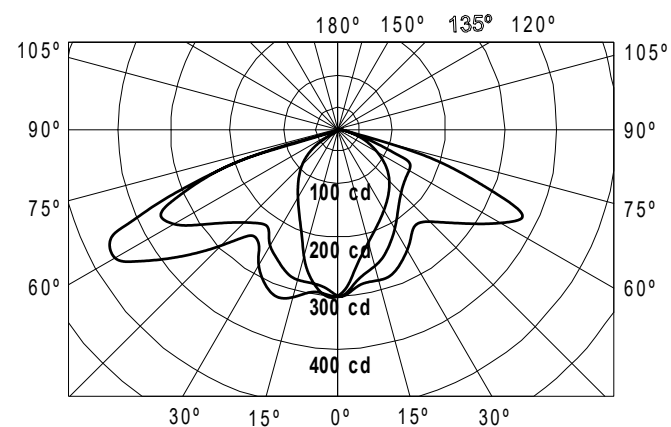


- LA SECCIÓN DEL CONDUCTOR DE SALIDA DE PICA, SERÁ COMO MÍNIMO DE 35 MM² CU.
- LA SECCIÓN DE LOS CONDUCTORES DE UNIÓN DE BÁCULOS O COLUMNAS Y CENTRO DE MANDO, DESDE LA SOLDADURA DE DERIVACIÓN, ESTARÁ DE ACUERDO CON MIBT 039.
- SE INSTALARÁ UNA PICA AL FINAL DE CADA CIRCUITO Y EN EL CENTRO DE MANDO.
- LA RESISTENCIA MÁXIMA DEL SISTEMA SERÁ IGUAL O INFERIOR A 10 OHMIOS.

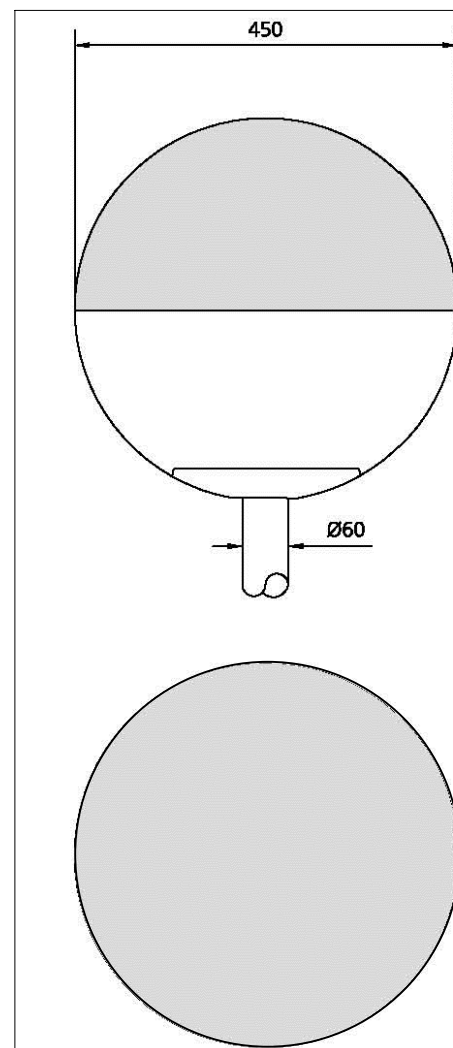




100 W LED



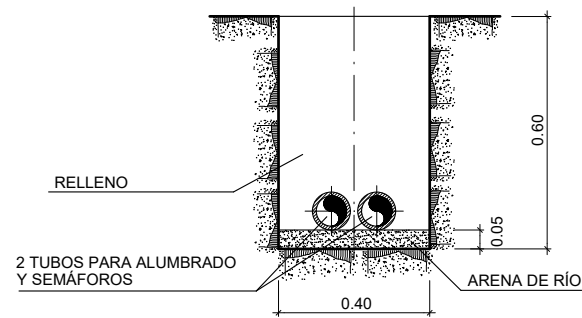
LUMINARIA AEROS



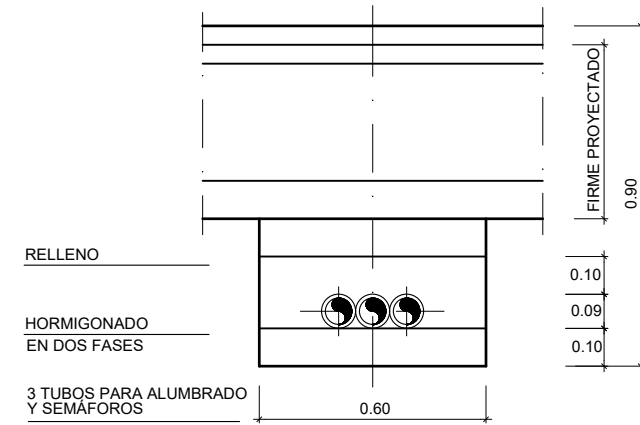
- APLICACIÓN: columnas de 3 a 4 metros.
- SEMIESFERA SUPERIOR: fabricada en policarbonato acabado color negro.
- DIFUSOR: fabricada en policarbonato semitransparente.
- BASE: Fabricada en fundición de aluminio de color negro. Reductor incorporado para Ø48mm.
- FIJACIÓN: Instalación sobre poste de diámetro 60mm y fijación vertical mediante tres tornillos ALLEN M10.
- GRADO DE PROTECCIÓN: IP44 (luminaria). IK07
- CLASE ELÉCTRICA: Clase I. Posibilidad de Clase II.
- PORTALÁMPARAS: E27/E40
- EQUIPOS ELÉCTRICOS: La luminaria dispone de espacio suficiente para albergar equipos eléctricos de distintas potencias según tabla adjunta.
- FHS INST: 0,61 %

GLOBO CÚPULA NEGRA

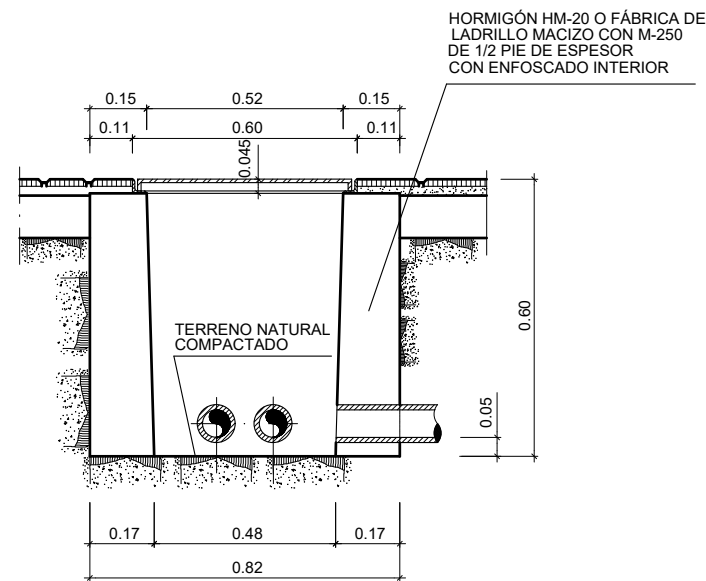
APLICACIÓN:	Columnas de 8 a 12 metros.
CUERPO:	Fundición inyectada de aluminio acabado en color gris RAL7045.
BLOQUE OPTICO:	Reflector de alta eficiencia, facetado de aluminio anodizado.
DIFUSOR:	Vidrio semicurvado lenticular de alta eficiencia.
FIJACIÓN:	Dispone de acoplamiento lateral para báculo y acoplamiento vertical (fijación Post-top) para columna con una inclinación regulable de 0° a 15°.
GRADO ESTANQUEIDAD:	IP65
CLASE ELÉCTRICA:	Clase I. Posibilidad de Clase II con 100W o 150W LED/HM. IK08.
PORTALÁMPARAS:	E40.
EQUIPOS ELÉCTRICOS:	La luminaria dispone de espacio para albergar el equipo eléctrico.



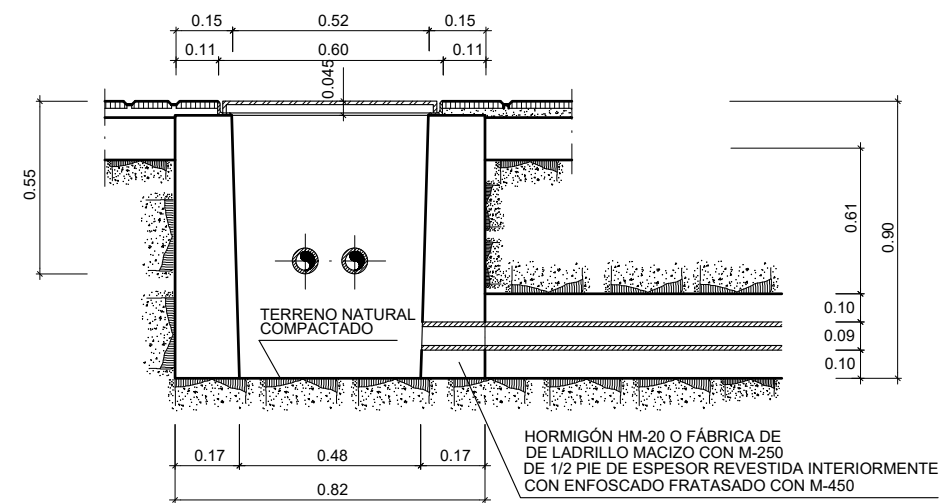
CANALIZACIÓN EN TIERRA
SECCIÓN TIPO
ESQUEMÁTICO



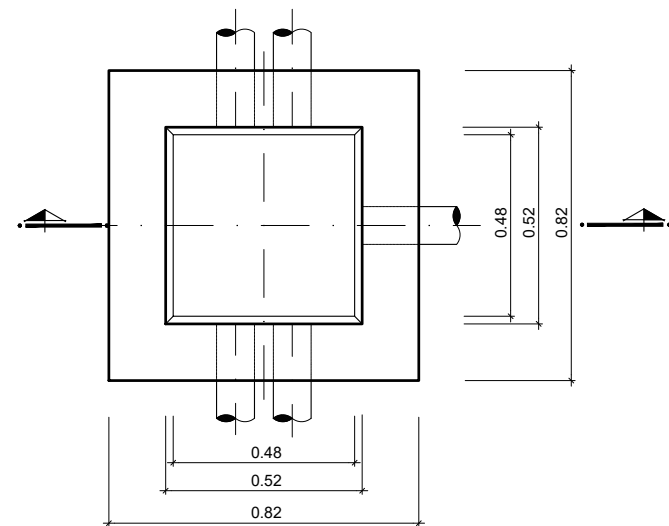
CANALIZACIÓN SUBTERRANEA
CRUCE DE CALZADAS
ESQUEMÁTICO



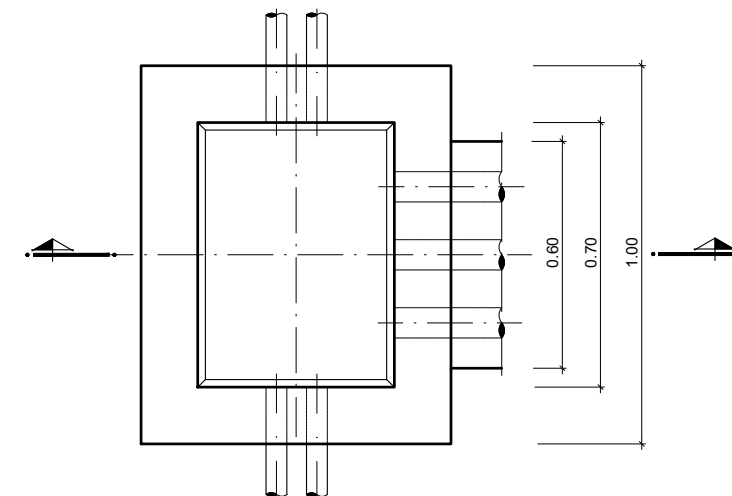
ARQUETA DE PASO O DERIVACIÓN
SECCIÓN A-A
ESQUEMÁTICO



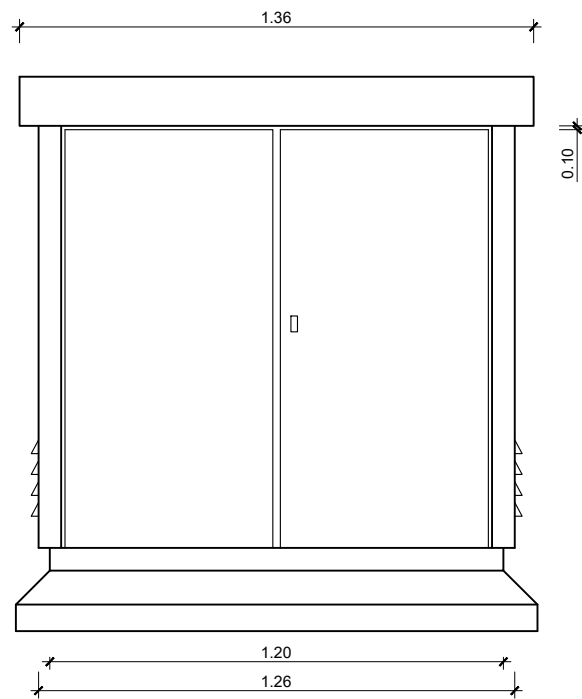
ARQUETA DE CRUCE DE CALZADA
SECCIÓN B-B
ESQUEMÁTICO



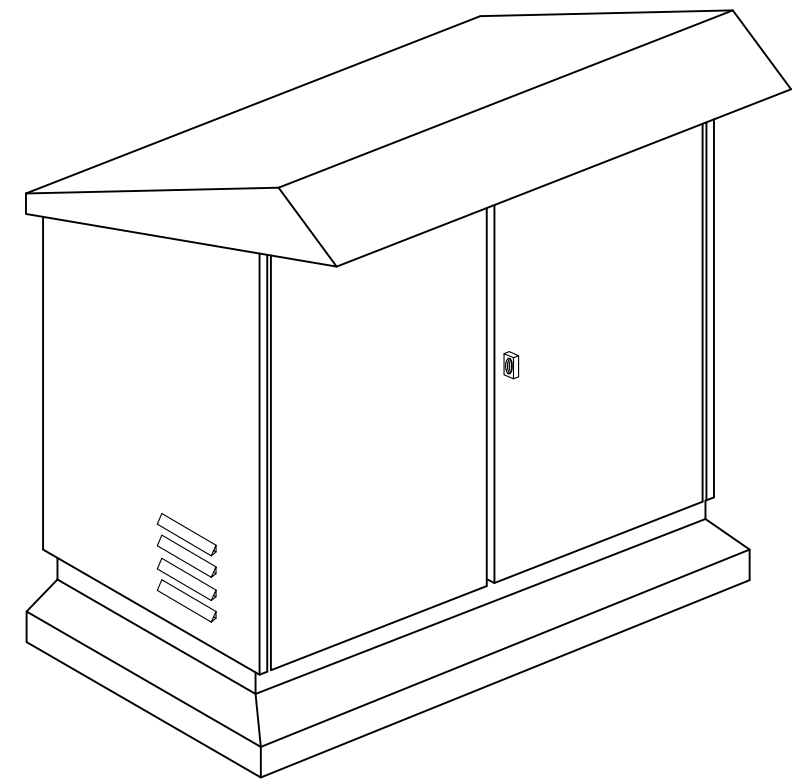
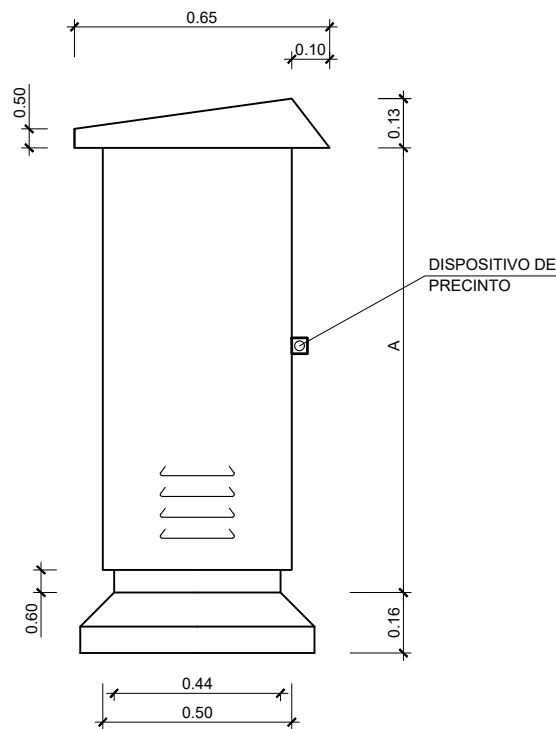
ARQUETA DE PASO O DERIVACIÓN
PLANTA-SECCIÓN
ESQUEMÁTICO



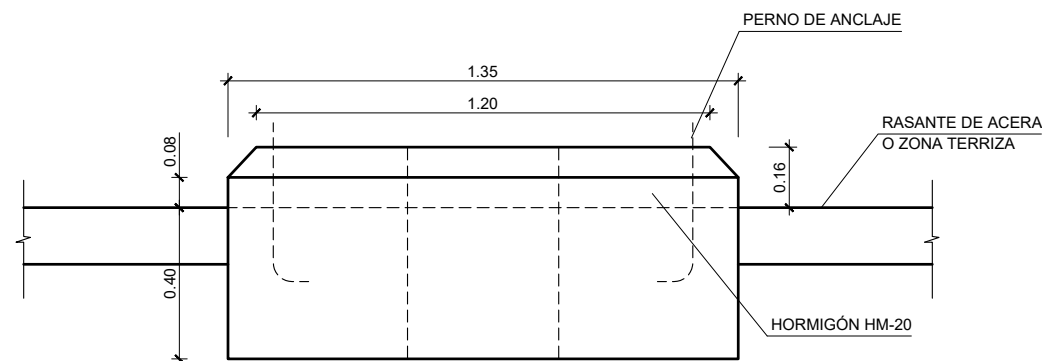
ARQUETA DE CRUCE DE CALZADA
PLANTA-SECCIÓN
ESQUEMÁTICO



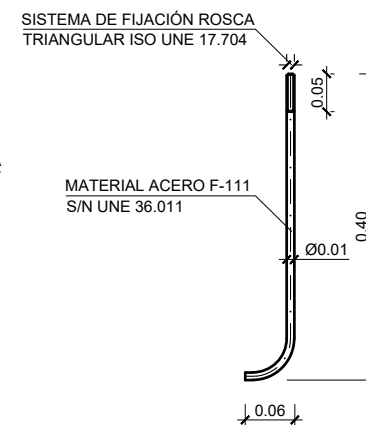
ARMARIO



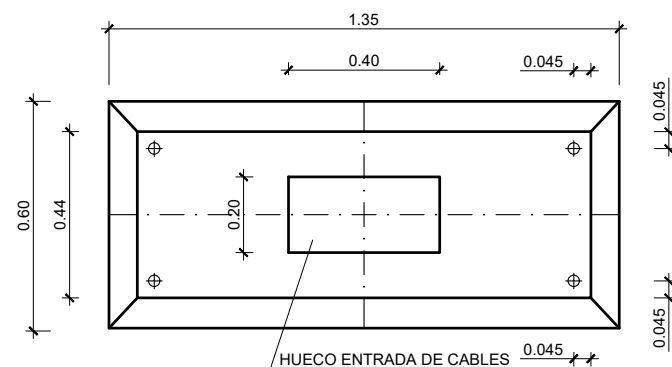
PERSPECTIVA. VISTA ANTERIOR



ALZADO



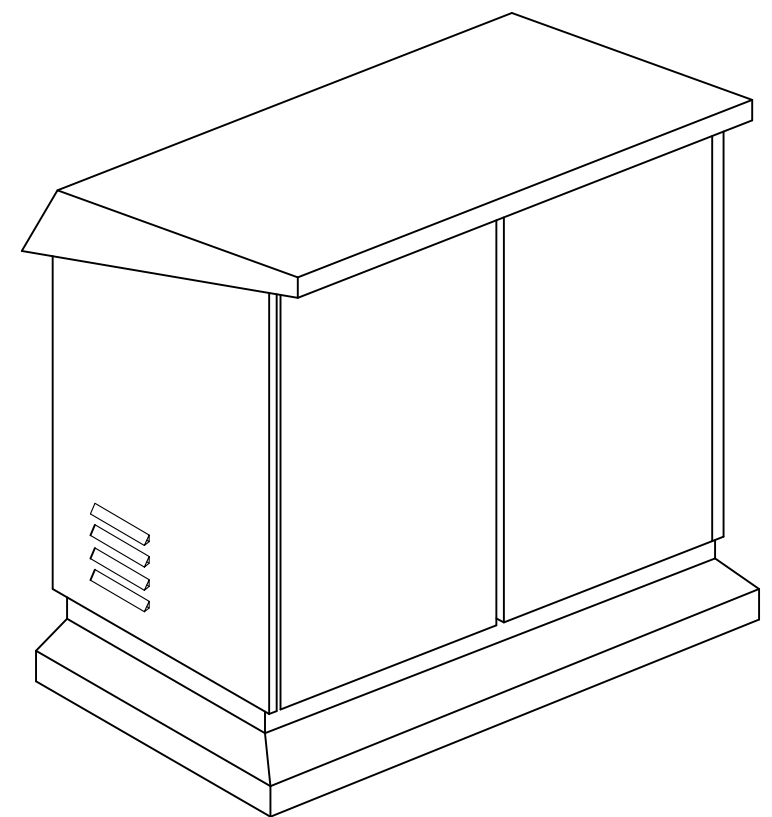
PERNO



PLANTA
CIMENTACIÓN

MODELO	Nº DE CIRCUITOS	A (mm)
A-2	2	950
A-4	4	1.370
A-6	6	1.790

- LA CHAPA SERÁ GALVANIZADA Y CUMPLIRÁ EL RD-2531/1985.
- EL ESPESOR DE LA CHAPA SERÁ DE 3 mm.
- EL TERMINADO Y COLOR DE LA PINTURA SERÁ COMO EL EMPLEADO EN LOS SOPORTES.
- LAS PUERTAS IRÁN UNIDAS ELÉCTRICAMENTE AL ARMARIO CON TRENZADO DE COBRE Y ÉSTE A TIERRA CON CABLE DE 35 mm².



PERSPECTIVA. VISTA POSTERIOR



LEYENDA

GAS EXISTENTE - POLIETILENO

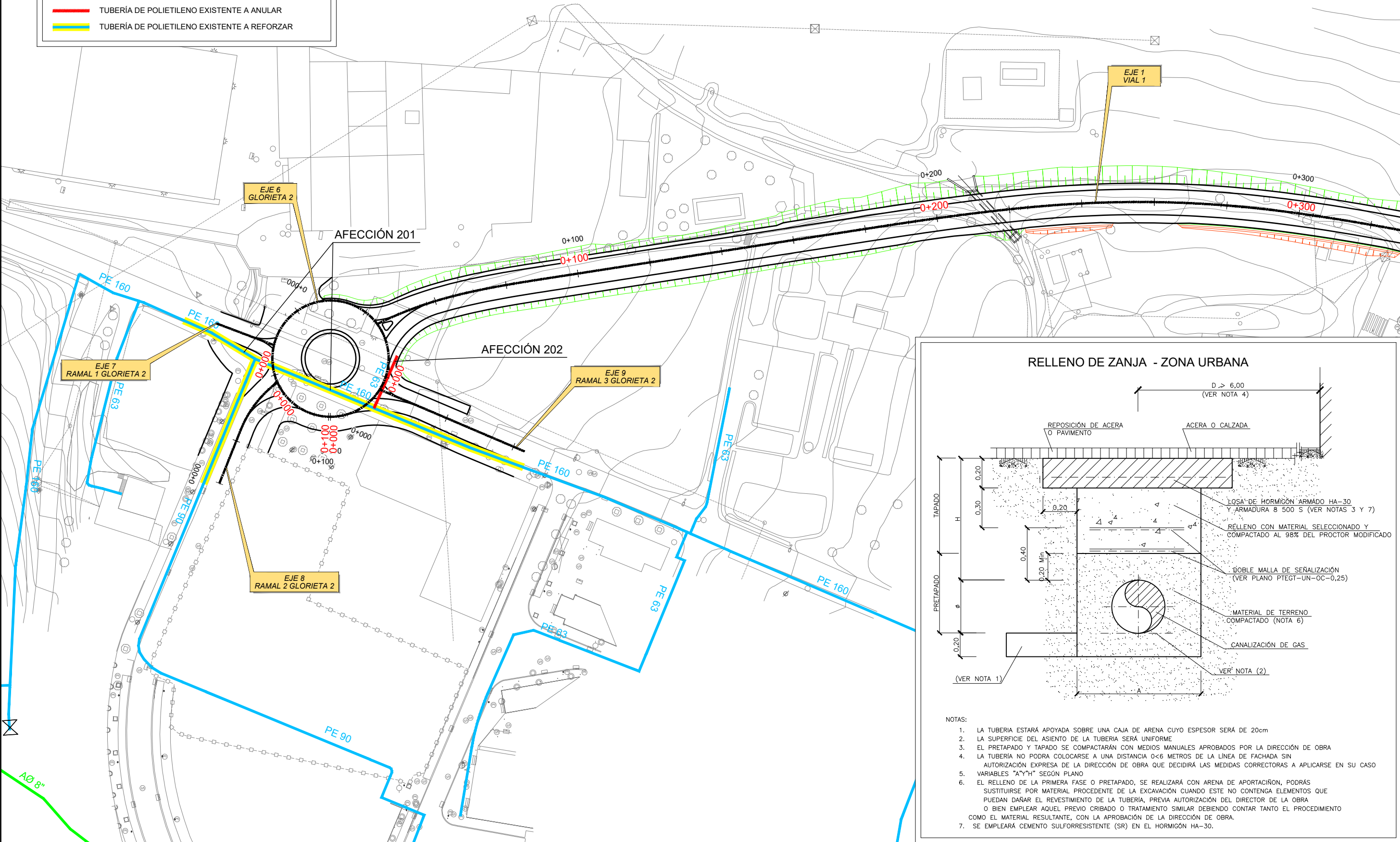
GAS EXISTENTE - ACERO

VÁLVULA EXISTENTE

RESPIRADERO EXISTENTE

TUBERÍA DE POLIETILENO EXISTENTE A ANULAR

TUBERÍA DE POLIETILENO EXISTENTE A REFORZAR



RELLENO DE ZANJA - ZONA URBANA

NOTAS:

1.

LA TUBERÍA ESTARÁ APOYADA SOBRE UNA CAJA DE ARENA CUYO ESPESOR SERÁ DE 20cm

2.

LA SUPERFICIE DEL ASIENTO DE LA TUBERÍA SERÁ UNIFORME

3.

EL PRETAPADO Y TAPADO SE COMPACTARÁN CON MEDIOS MANUALES APROBADOS POR LA DIRECCIÓN DE OBRA

4.

LA TUBERÍA NO PODRÁ COLOCARSE A UNA DISTANCIA 0<6 METROS DE LA LÍNEA DE FACHADA SIN AUTORIZACIÓN EXPRESA DE LA DIRECCIÓN DE OBRA QUE DECIDIRÁ LAS MEDIDAS CORRECTORAS A APLICARSE EN SU CASO

5.

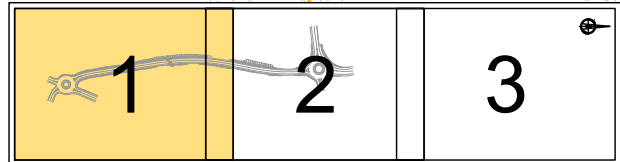
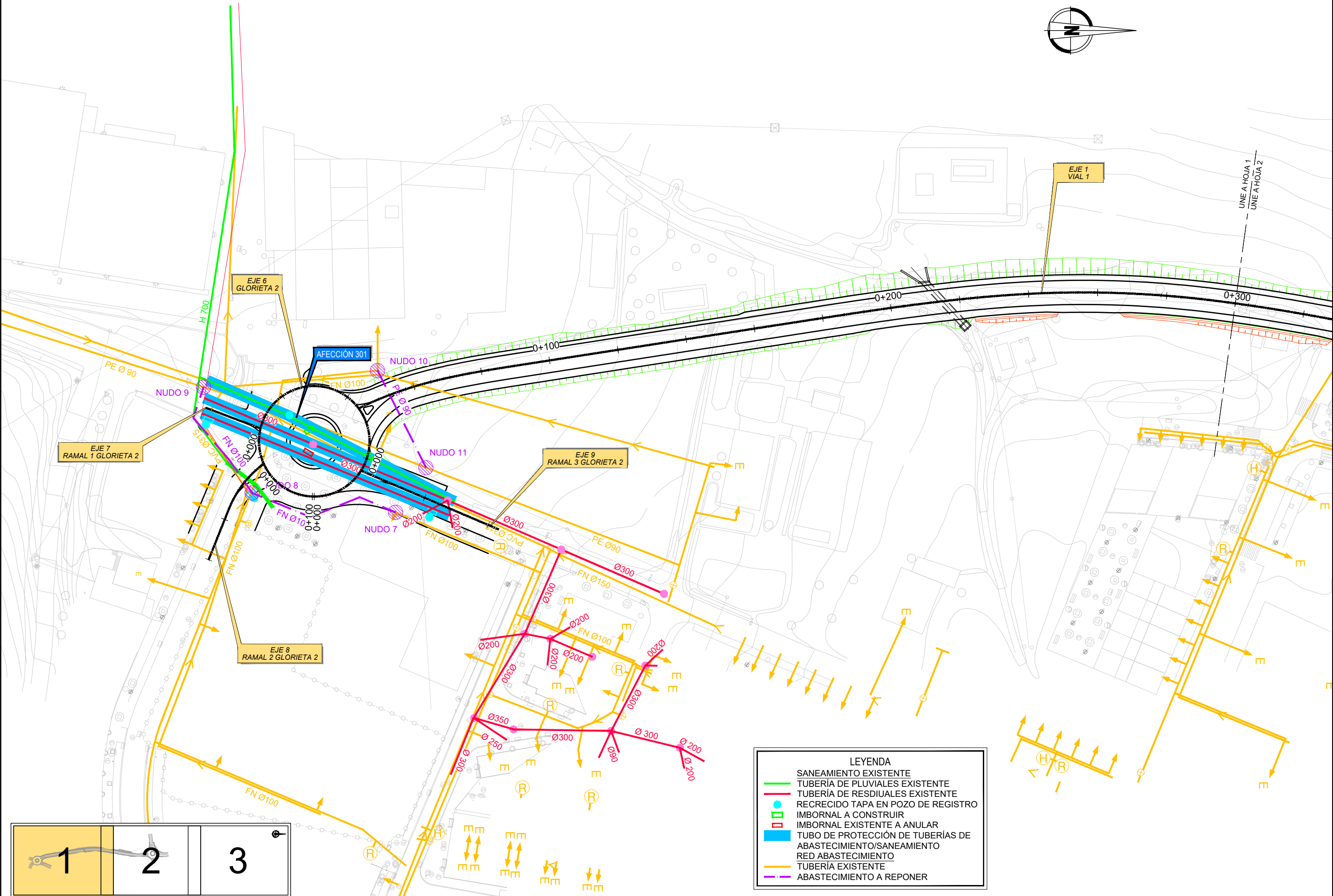
VARIABLES "A"Y"H" SEGÚN PLANO

6.

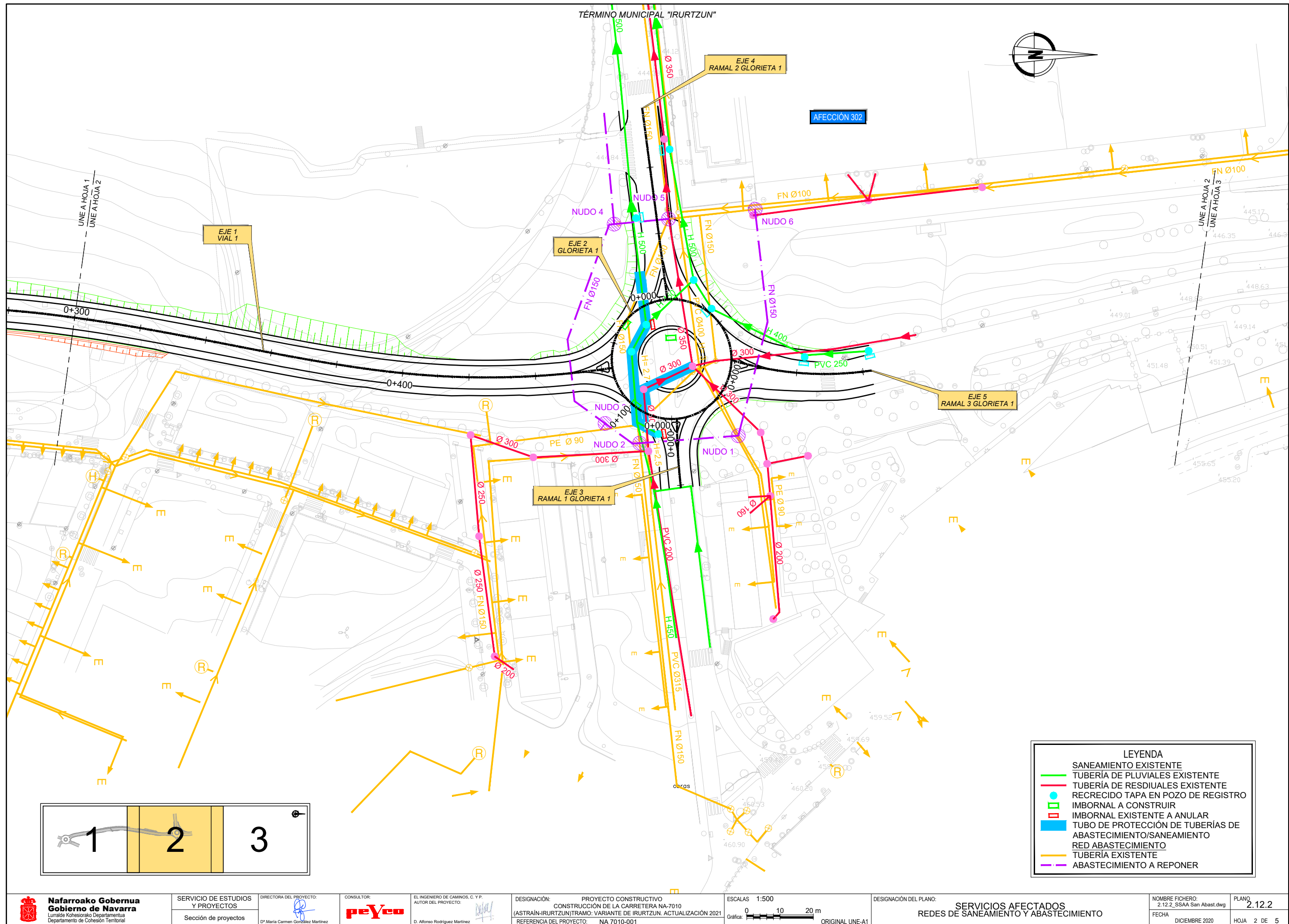
EL RELLENO DE LA PRIMERA FASE O PRETAPADO, SE REALIZARÁ CON ARENA DE APORTACIÓN, PODRÁS SUSTITUIRSE POR MATERIAL PROCEDENTE DE LA EXCAVACIÓN CUANDO ESTE NO CONTENGA ELEMENTOS QUE PUEDAN DAÑAR EL REVESTIMIENTO DE LA TUBERÍA, PREVIA AUTORIZACIÓN DEL DIRECTOR DE LA OBRA O BIEN EMPLEAR AQUEL PREVIO CRIBADO O TRATAMIENTO SIMILAR DEBIENDO CONTAR TANTO EL PROCEDIMIENTO COMO EL MATERIAL RESULTANTE, CON LA APROBACIÓN DE LA DIRECCIÓN DE OBRA.

7.

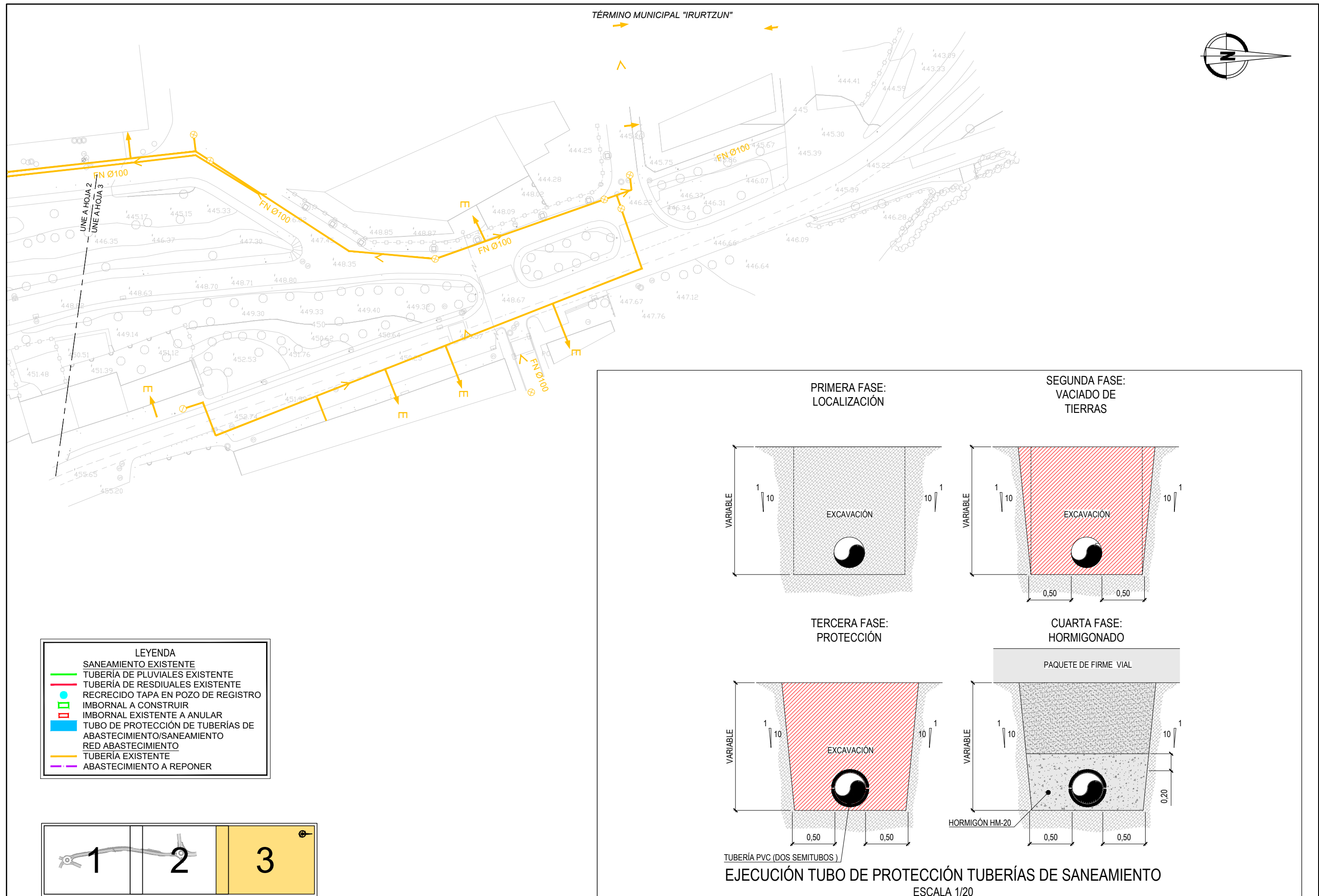
SE EMPLEARÁ CEMENTO SULFORRESISTENTE (SR) EN EL HORMIGÓN HA-30.



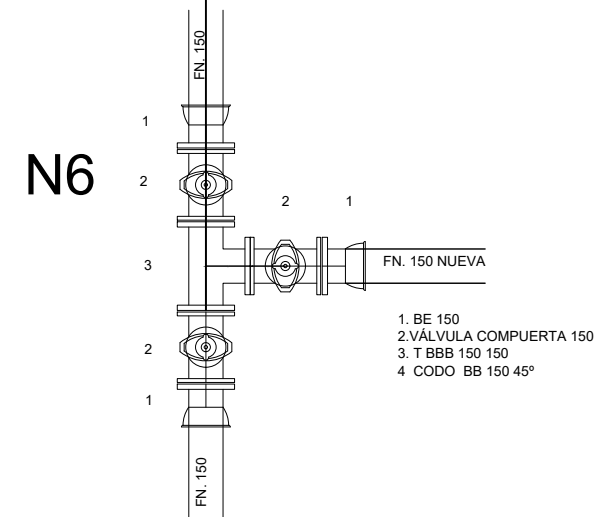
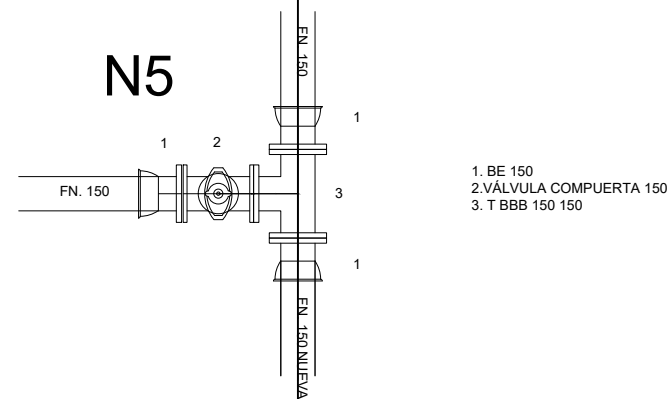
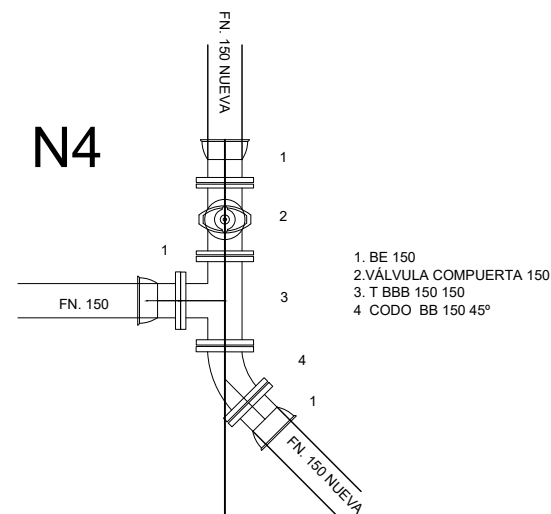
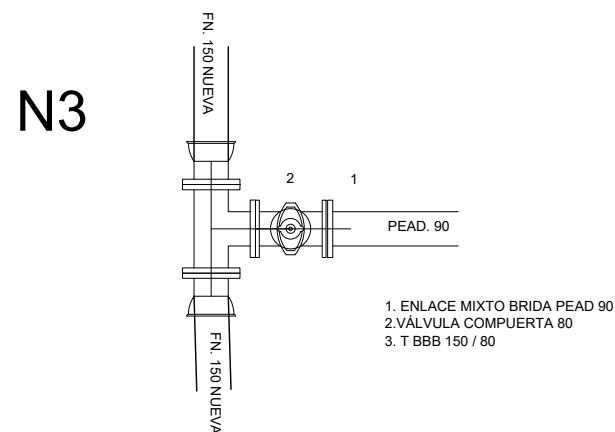
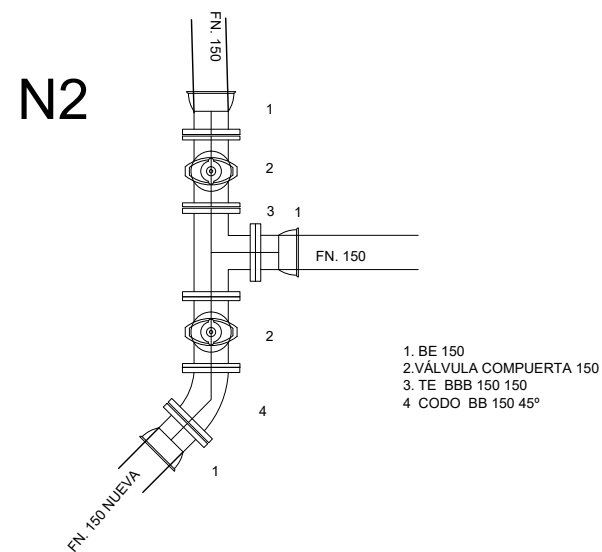
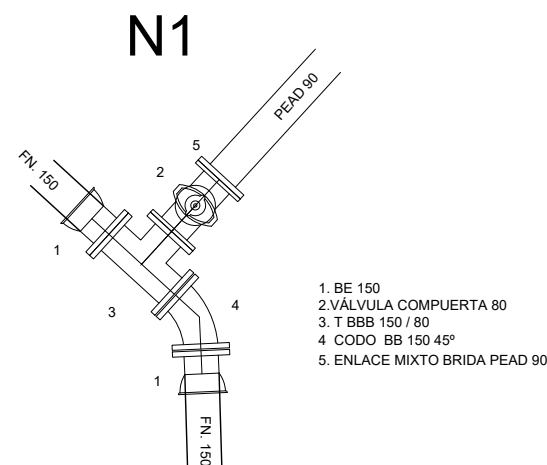
LEYENDA	
	SANEAMIENTO EXISTENTE
	TUBERÍA DE PLUVIALES EXISTENTE
	TUBERÍA DE RESIDUALES EXISTENTE
	RECRECIDO TAPA EN POZO DE REGISTRO
	IMBORNAL A CONSTRUIR
	IMBORNAL EXISTENTE A ANULAR
	TUBO DE PROTECCIÓN DE TUBERÍAS DE ABASTECIMIENTO/SANEAMIENTO
	RED ABASTECIMIENTO
	TUBERÍA EXISTENTE
	ABASTECIMIENTO A REPONER



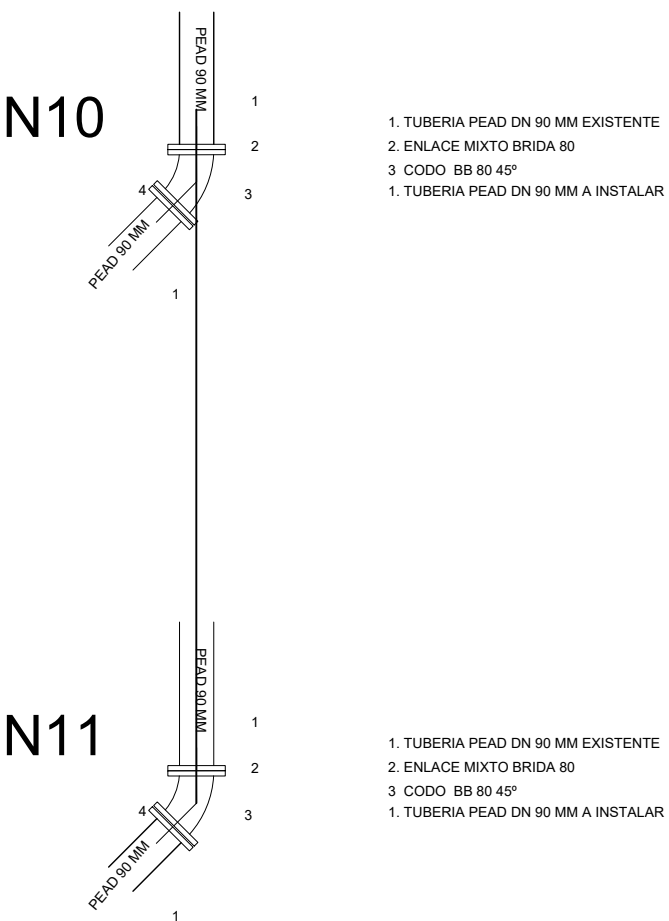
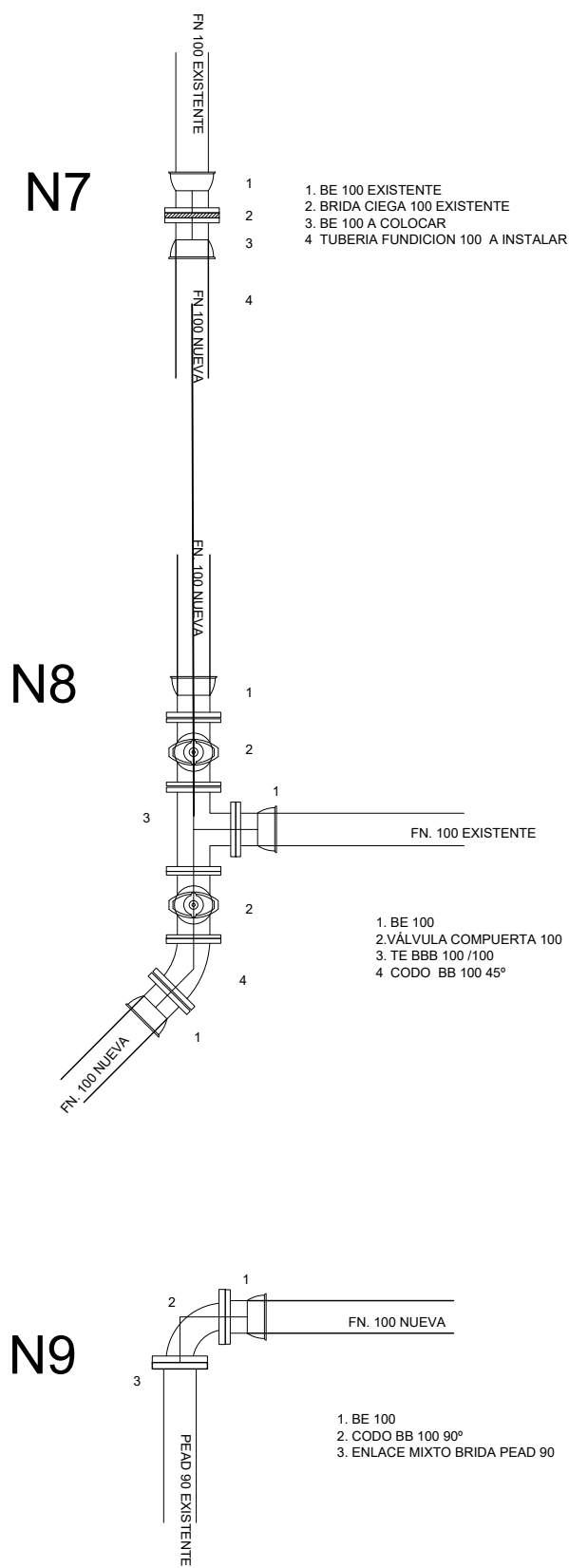
LEYENDA	
	SANEAMIENTO EXISTENTE
	TUBERÍA DE PLUVIALES EXISTENTE
	TUBERÍA DE RESIDUALES EXISTENTE
	RECRECIDO TAPA EN POZO DE REGISTRO
	IMBORNAL A CONSTRUIR
	IMBORNAL EXISTENTE A ANULAR
	TUBO DE PROTECCIÓN DE TUBERÍAS DE ABASTECIMIENTO/SANEAMIENTO
	RED ABASTECIMIENTO
	TUBERÍA EXISTENTE
	ABASTECIMIENTO A REPONER

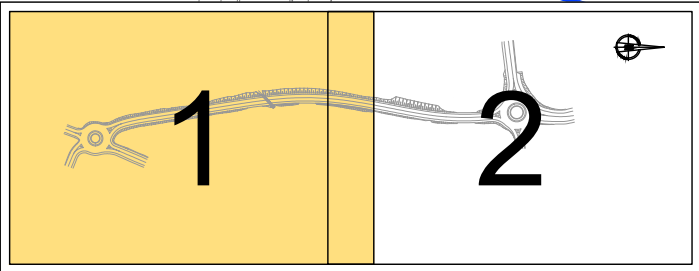
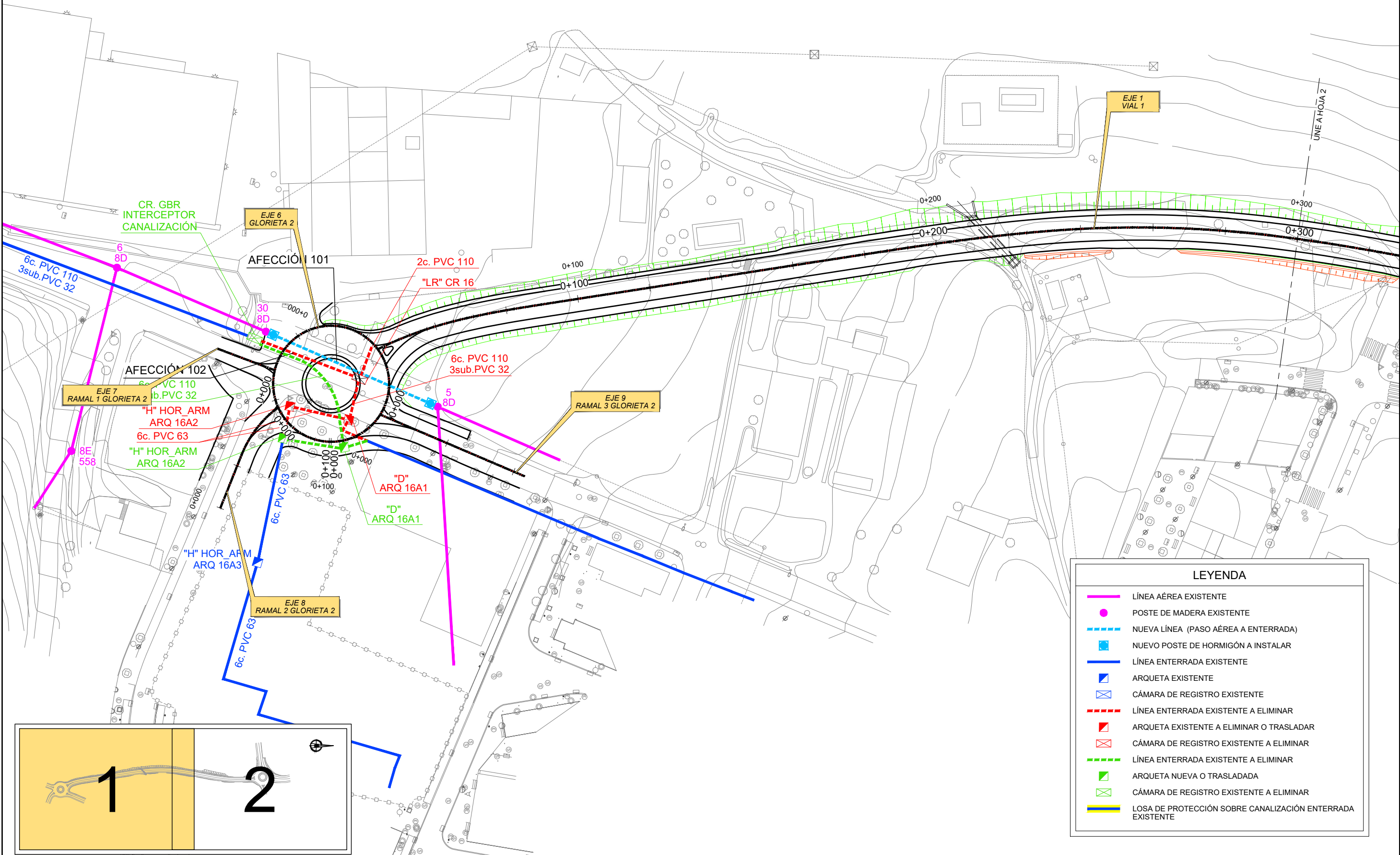


DETALLE DE NUDOS

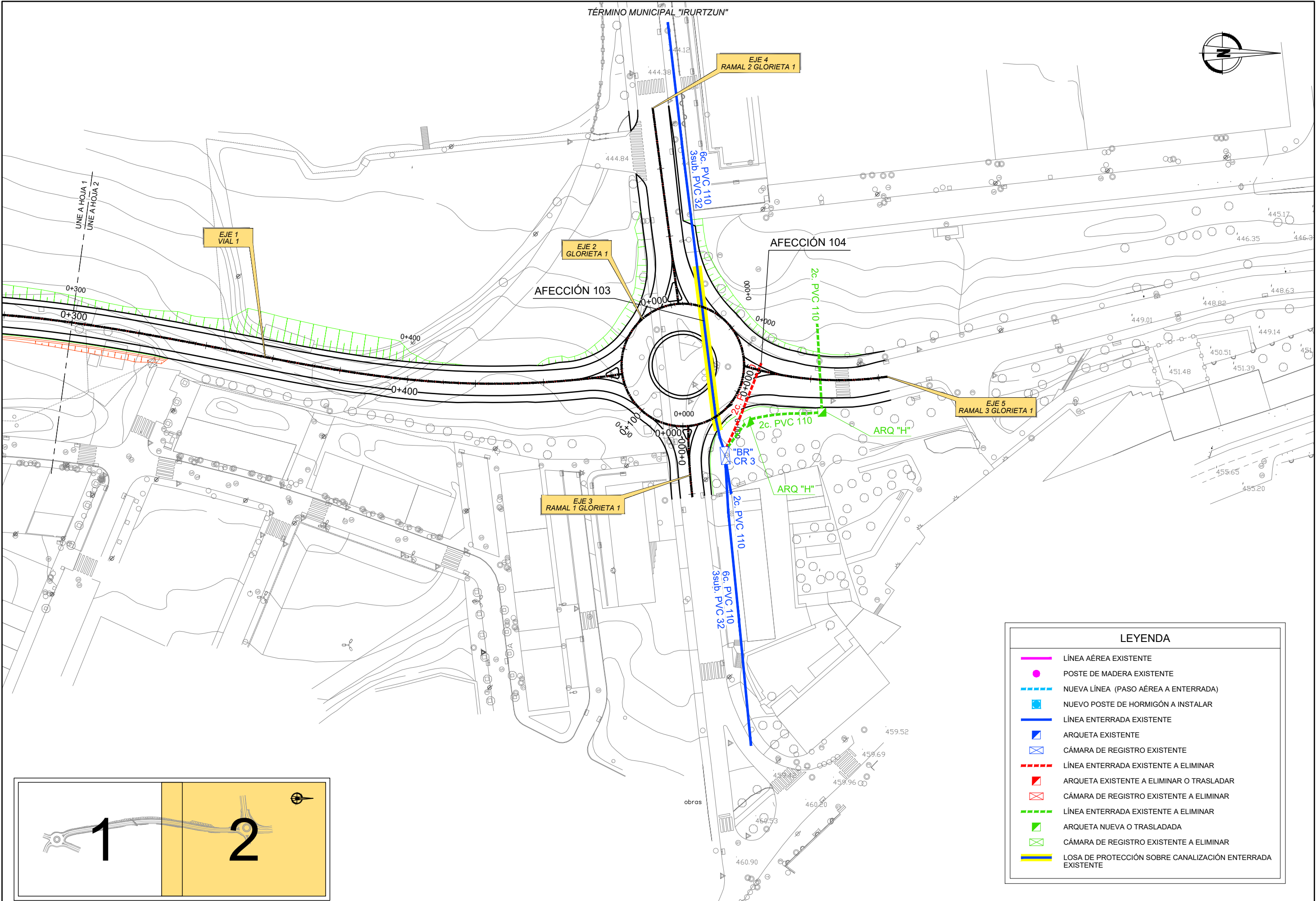


DETALLE DE NUDOS

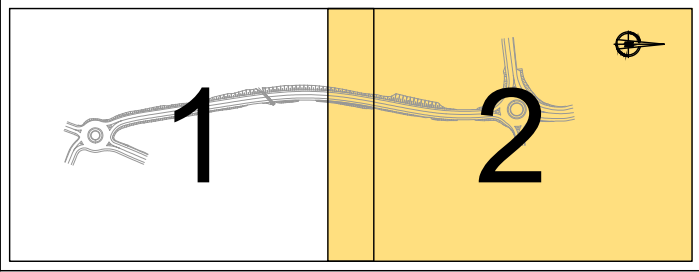


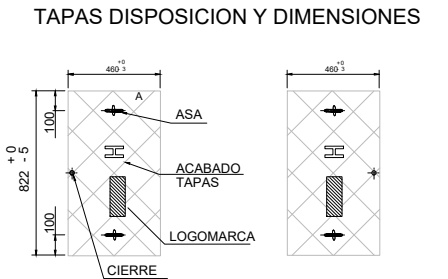
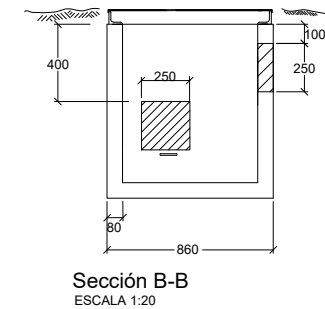
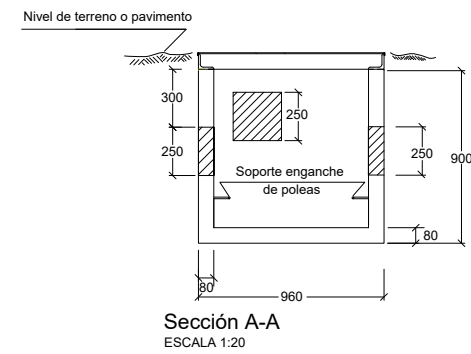
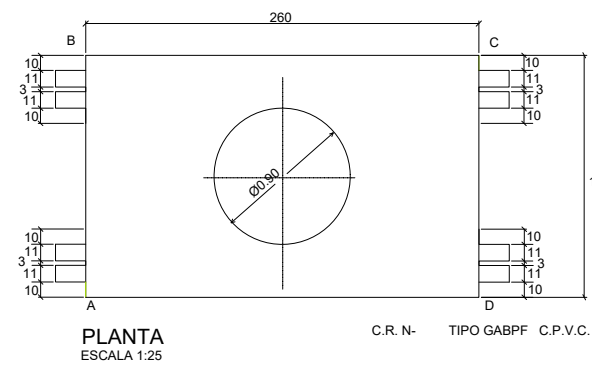
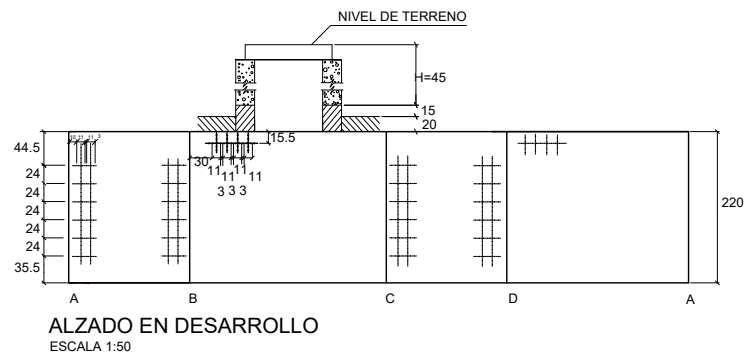
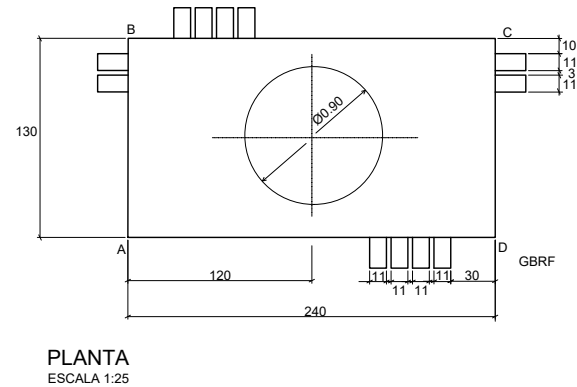
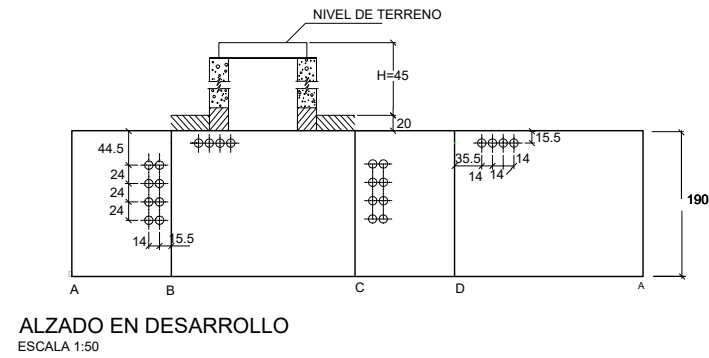


LEYENDA	
	LÍNEA AÉREA EXISTENTE
	POSTE DE MADERA EXISTENTE
	NUEVA LÍNEA (PASO AÉREA A ENTERRADA)
	NUEVO POSTE DE HORMIGÓN A INSTALAR
	LÍNEA ENTERRADA EXISTENTE
	ARQUETA EXISTENTE
	CÁMARA DE REGISTRO EXISTENTE
	LÍNEA ENTERRADA EXISTENTE A ELIMINAR
	ARQUETA EXISTENTE A ELIMINAR O TRASLADAR
	CÁMARA DE REGISTRO EXISTENTE A ELIMINAR
	LÍNEA ENTERRADA EXISTENTE A ELIMINAR
	ARQUETA NUEVA O TRASLADADA
	CÁMARA DE REGISTRO EXISTENTE A ELIMINAR
	LOSA DE PROTECCIÓN SOBRE CANALIZACIÓN ENTERRADA EXISTENTE



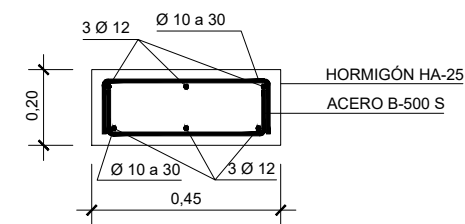
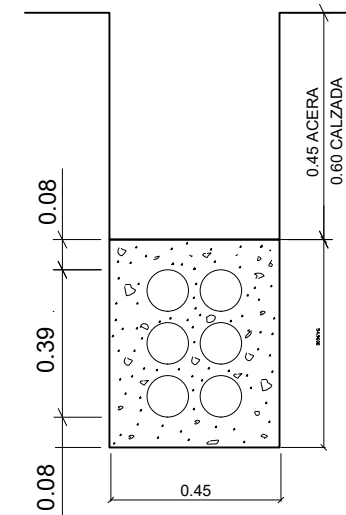
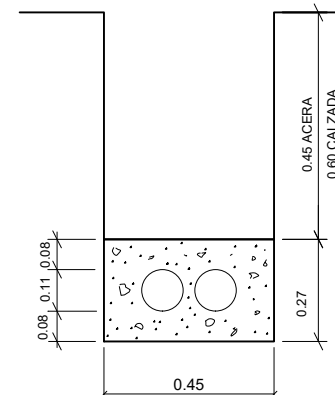
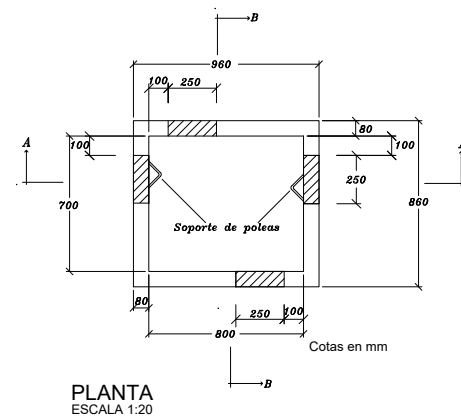
LEYENDA	
	LÍNEA AÉREA EXISTENTE
	POSTE DE MADERA EXISTENTE
	NUEVA LÍNEA (PASO AÉREA A ENTERRADA)
	NUEVO POSTE DE HORMIGÓN A INSTALAR
	LÍNEA ENTERRADA EXISTENTE
	ARQUETA EXISTENTE
	CÁMARA DE REGISTRO EXISTENTE
	LÍNEA ENTERRADA EXISTENTE A ELIMINAR
	ARQUETA EXISTENTE A ELIMINAR O TRASLADAR
	CÁMARA DE REGISTRO EXISTENTE A ELIMINAR
	LÍNEA ENTERRADA EXISTENTE A ELIMINAR
	ARQUETA NUEVA O TRASLADADA
	CÁMARA DE REGISTRO EXISTENTE A ELIMINAR
	LOSA DE PROTECCIÓN SOBRE CANALIZACIÓN ENTERRADA EXISTENTE





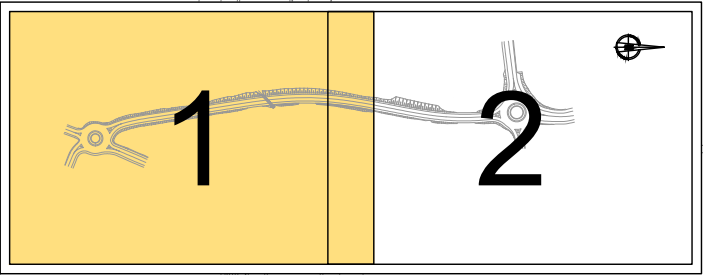
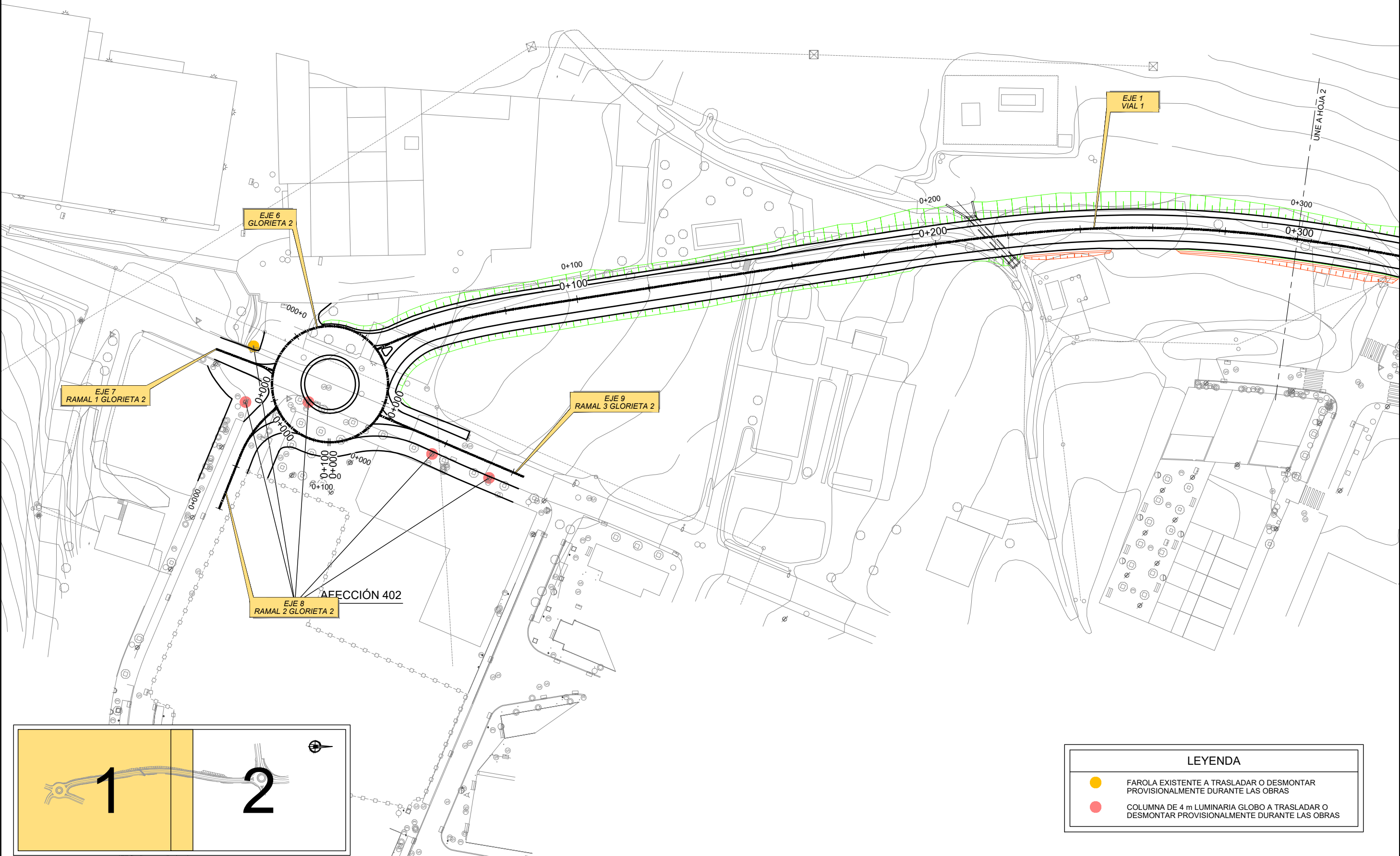
- Ventanas de paredes transversales : van huecas .
- Ventanas de paredes longitudinales :
van con pared de hormigón de 3 cm de espesor ,
en la parte exterior .

ARQUETA Nº TIPO " HF "

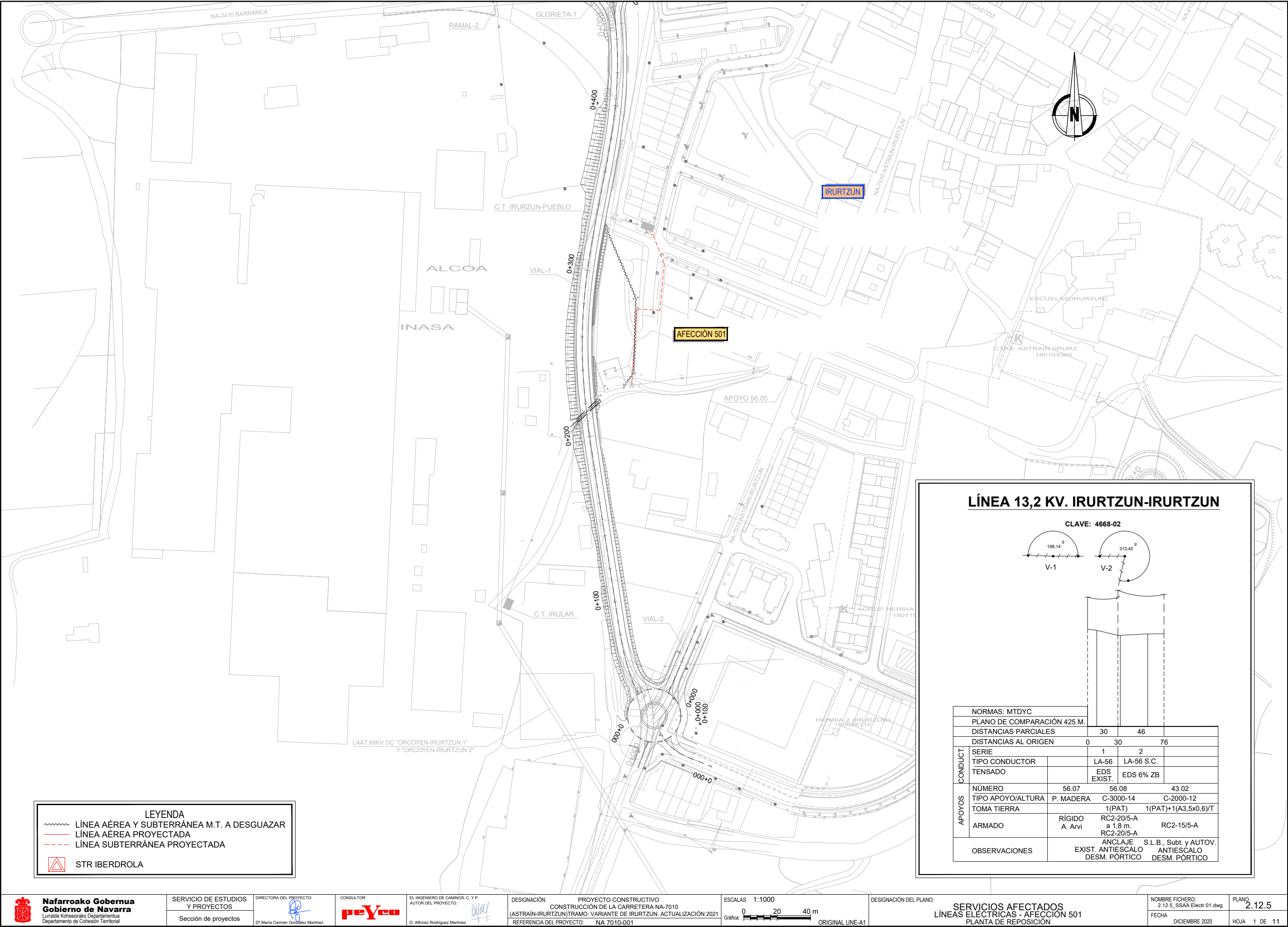


CUADRO DE CONTROL

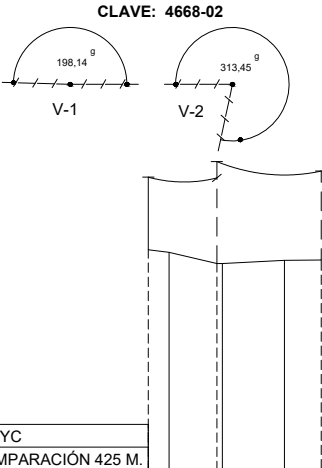
MATERIAL	ELEMENTOS	DESIGNACIÓN	NIVEL DE CONTROL	COEFICIENTE SEGUR. E.L.U.
	NIVELACIÓN	HM-10/B/20/lla"	NO ESTRUCTURAL	
HORMIGÓN	CIMENTOS	HA-25/P/20/lla"	NORMAL	$\gamma_c=1.50$
	ALZADOS	HA-25/P/20/lla"	NORMAL	$\gamma_c=1.50$
ACERO	PASIVO	B-500-S	NORMAL	$\gamma_s=1.15$
EJECUCIÓN	CIMENTOS	—	NORMAL	$\gamma_c=1.50$
		—		$\gamma_s=1.60$
	ALZADOS	—	NORMAL	$\gamma_c=1.50$
		—		$\gamma_s=1.60$



LEYENDA	
	FAROLA EXISTENTE A TRASLADAR O DESMONTAR PROVISIONALMENTE DURANTE LAS OBRAS
	COLUMNA DE 4 m LUMINARIA GLOBO A TRASLADAR O DESMONTAR PROVISIONALMENTE DURANTE LAS OBRAS



LÍNEA 13,2 KV. IRURTZUN-IRURTZUN



NORMAS: MTDYC			
PLANO DE COMPARACIÓN 425 M.			
DISTANCIAS PARCIALES			
DISTANCIAS AL ORIGEN		0	30 46 76
CONDUCT.	SERIE	1	2
	TIPO CONDUCTOR	LA-56	LA-56 S.C.
	TENSADO	EDS EXIST.	EDS 6% ZB
APOYOS	NÚMERO	56.07	56.08 43.02
	TIPO APOYO/ALTURA	P. MADERA	C-3000-14 C-2000-12
	TOMA TIERRA	1(PAT)	1(PAT)+1(A3,5x0,6)/T
	ARMADO	RÍGIDO A. Arvi	RC2-20/5-A a 1,8 m. RC2-20/5-A RC2-15/5-A
OBSERVACIONES		ANCLAJE EXIST. ANTIESCALO DESM. PÓRICO	S.L.B., Subt. y AUTOV. ANTIESCALO DESM. PÓRICO

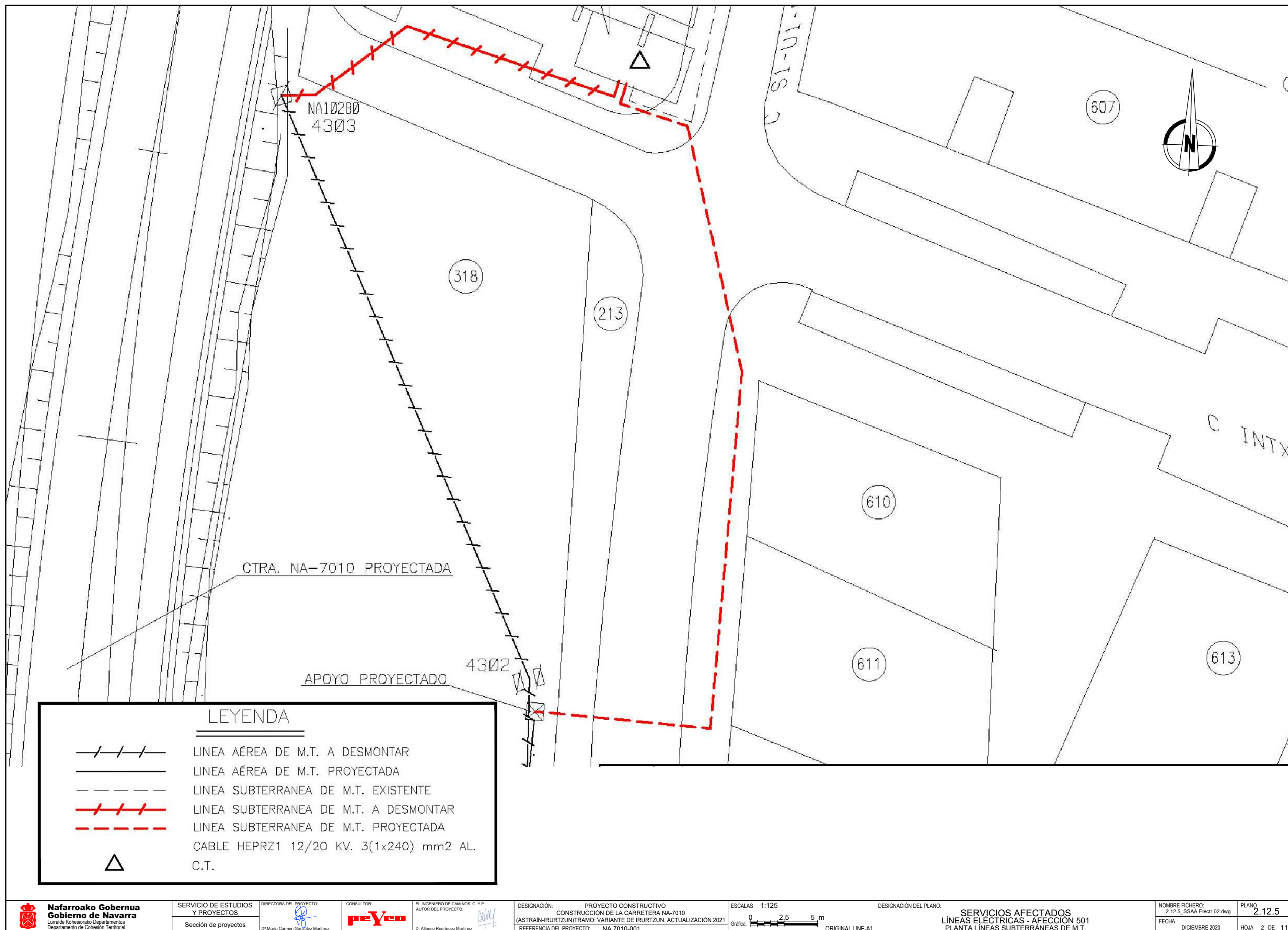
LEYENDA

~~~~~ LÍNEA AÉREA Y SUBTERRÁNEA M.T. A DESGUAZAR

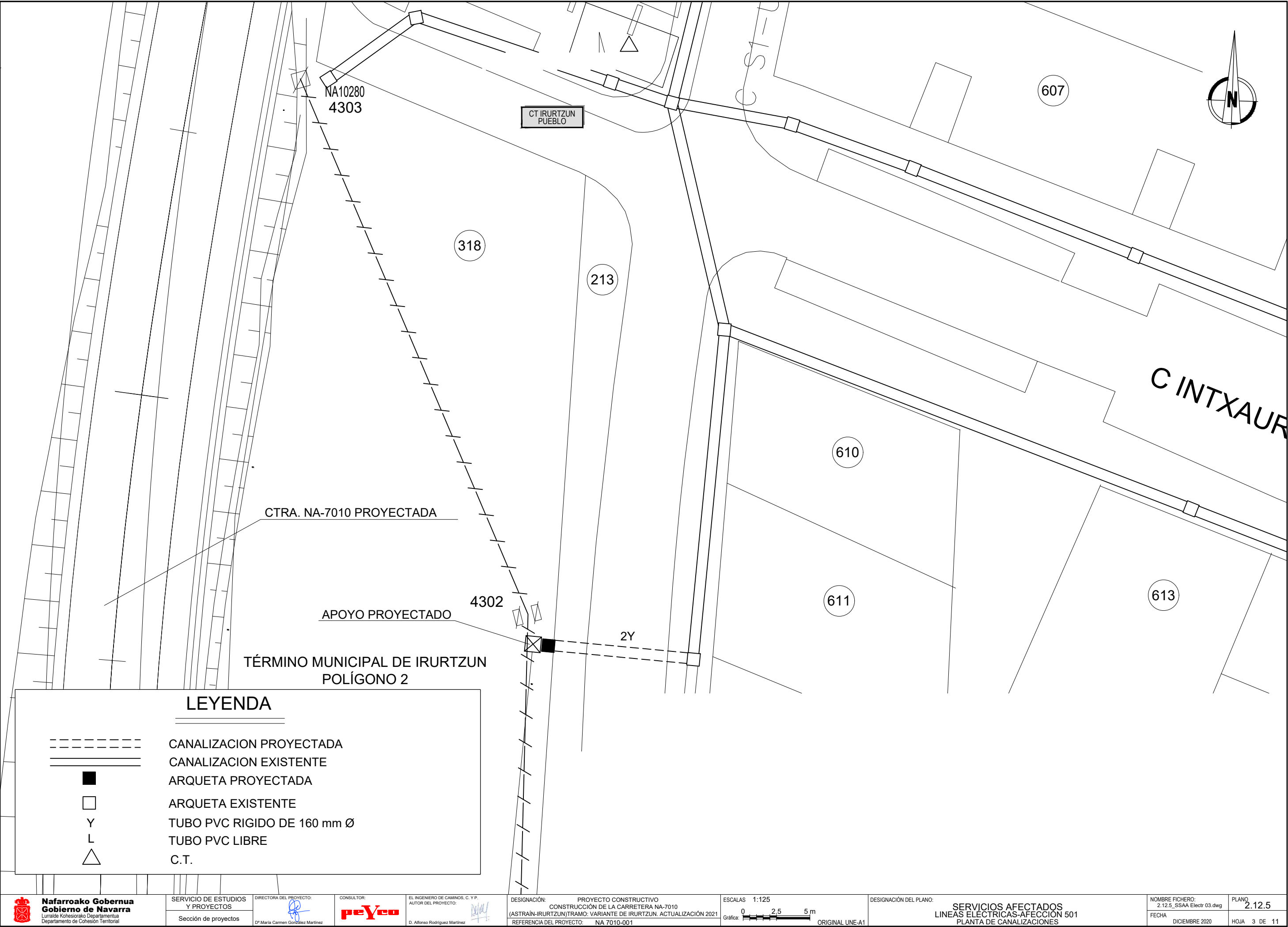
—— LÍNEA AÉREA PROYECTADA

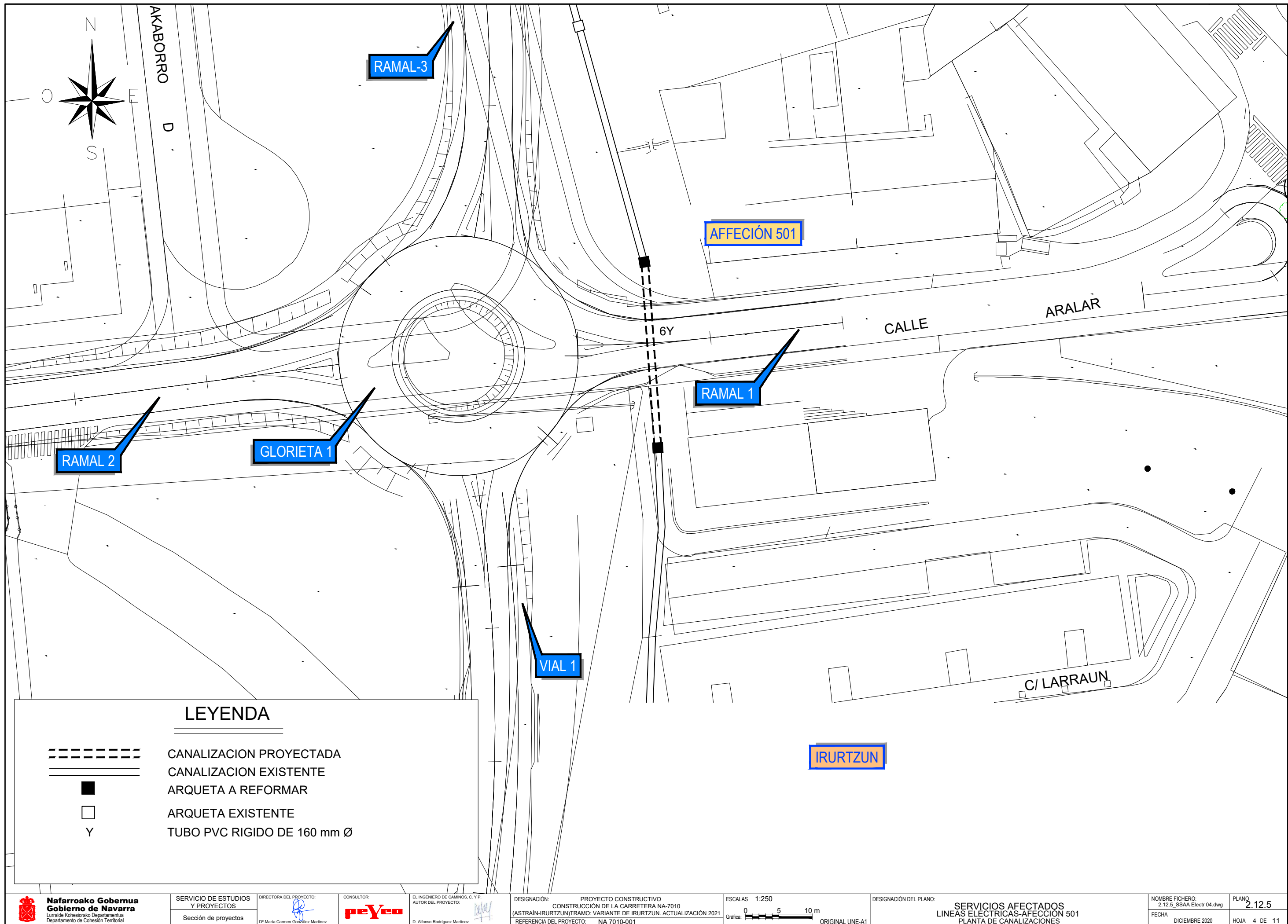
--- LÍNEA SUBTERRÁNEA PROYECTADA

STR IBERDROLA



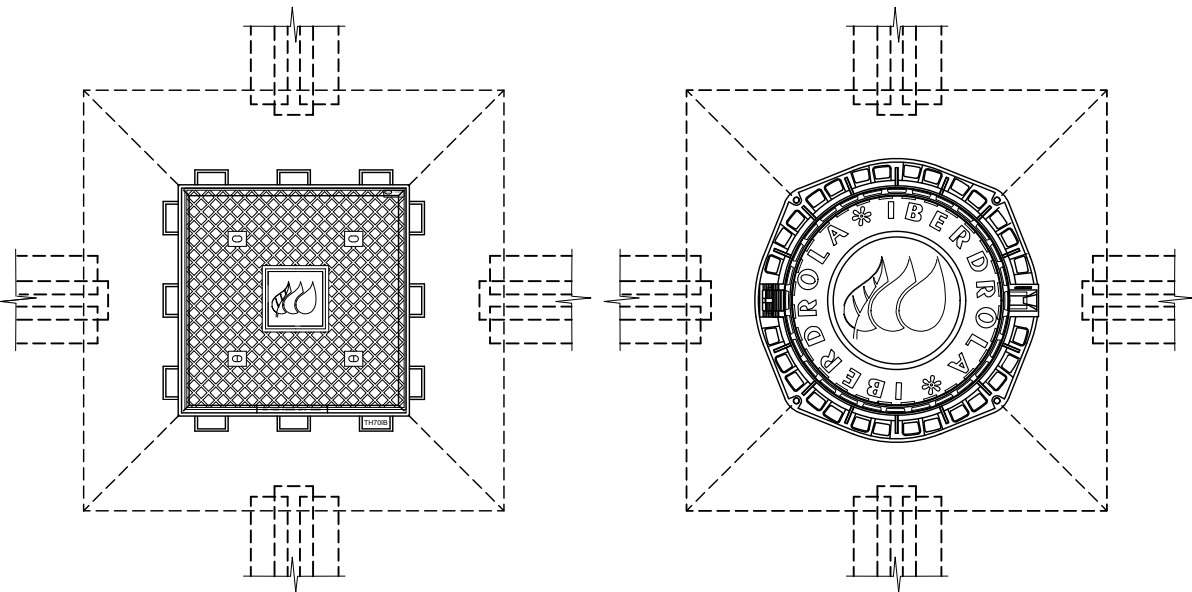
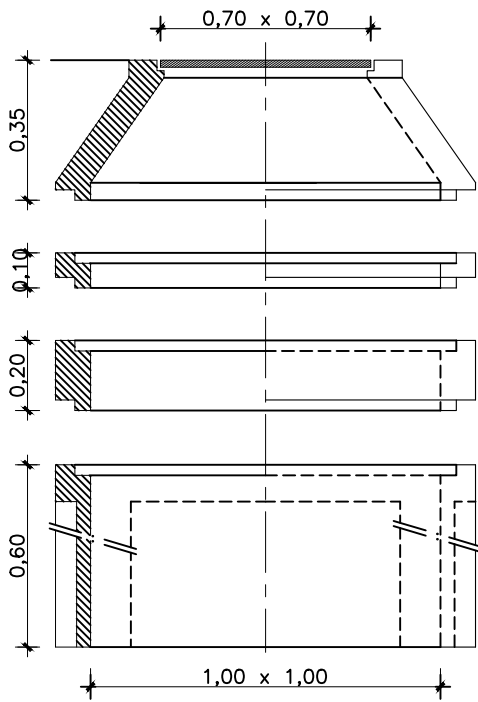








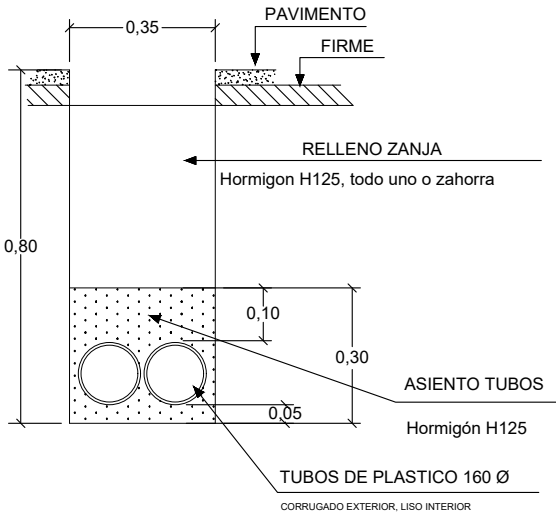
ARQUETA PREFABRICADA  
TIPO IBERDROLA



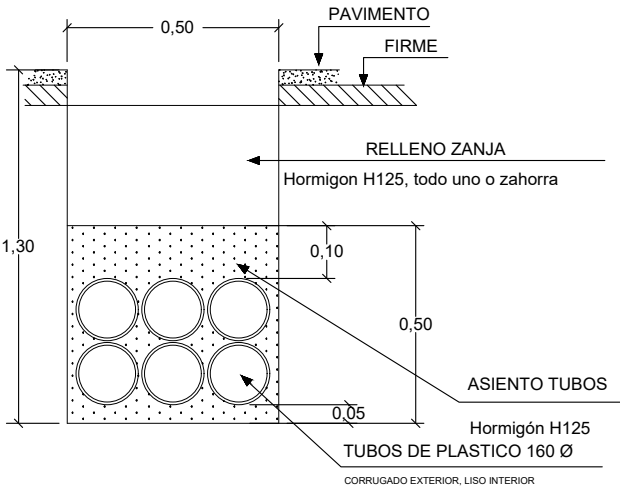
ACERA  
M2-T2

CALZADA  
M3-T3

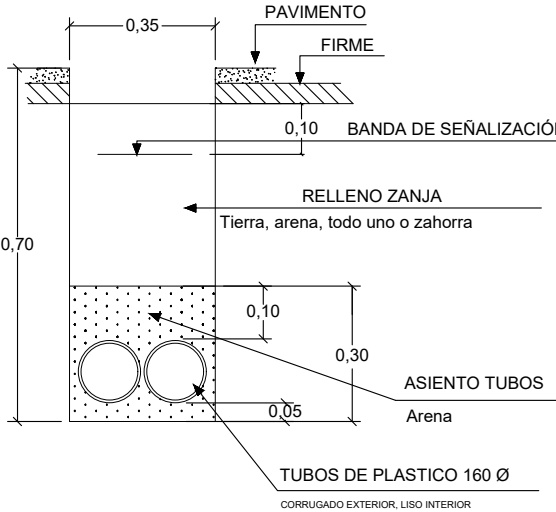
CRUCES Y CALZADA  
SECCION 2 Ø 160



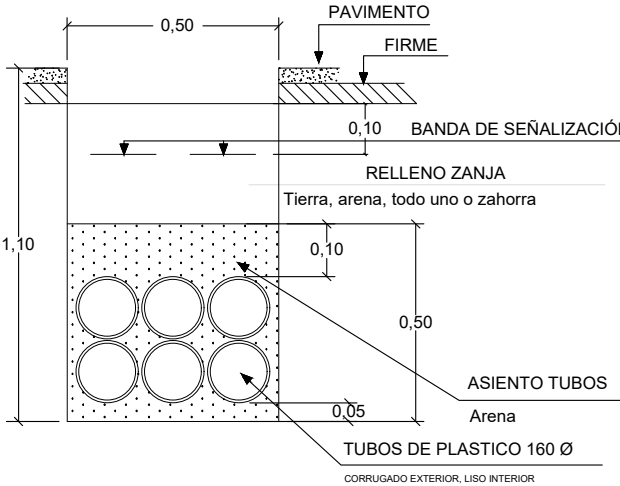
CRUCES Y CALZADA  
SECCION 6 Ø 160



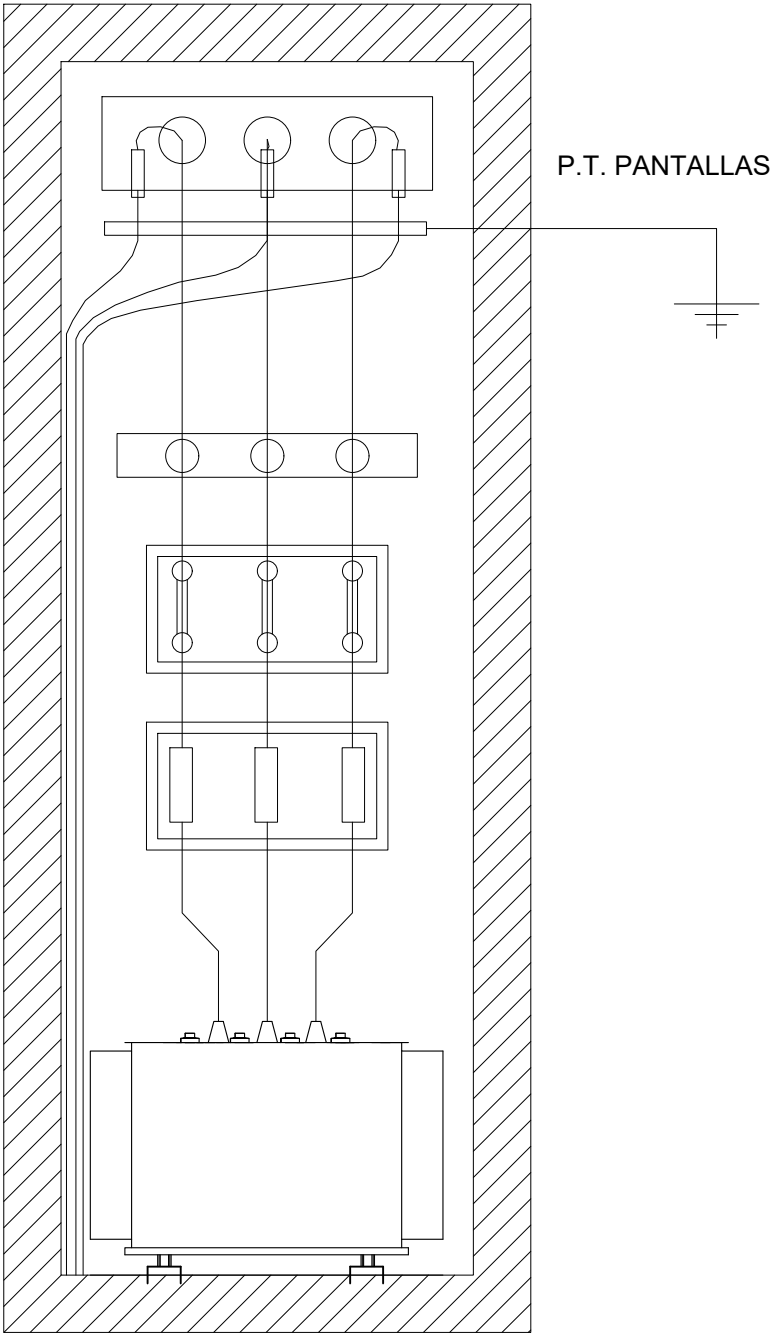
ACERA Y JARDINES  
SECCION 2 Ø 160



ACERA Y JARDINES  
SECCION 6 Ø 160

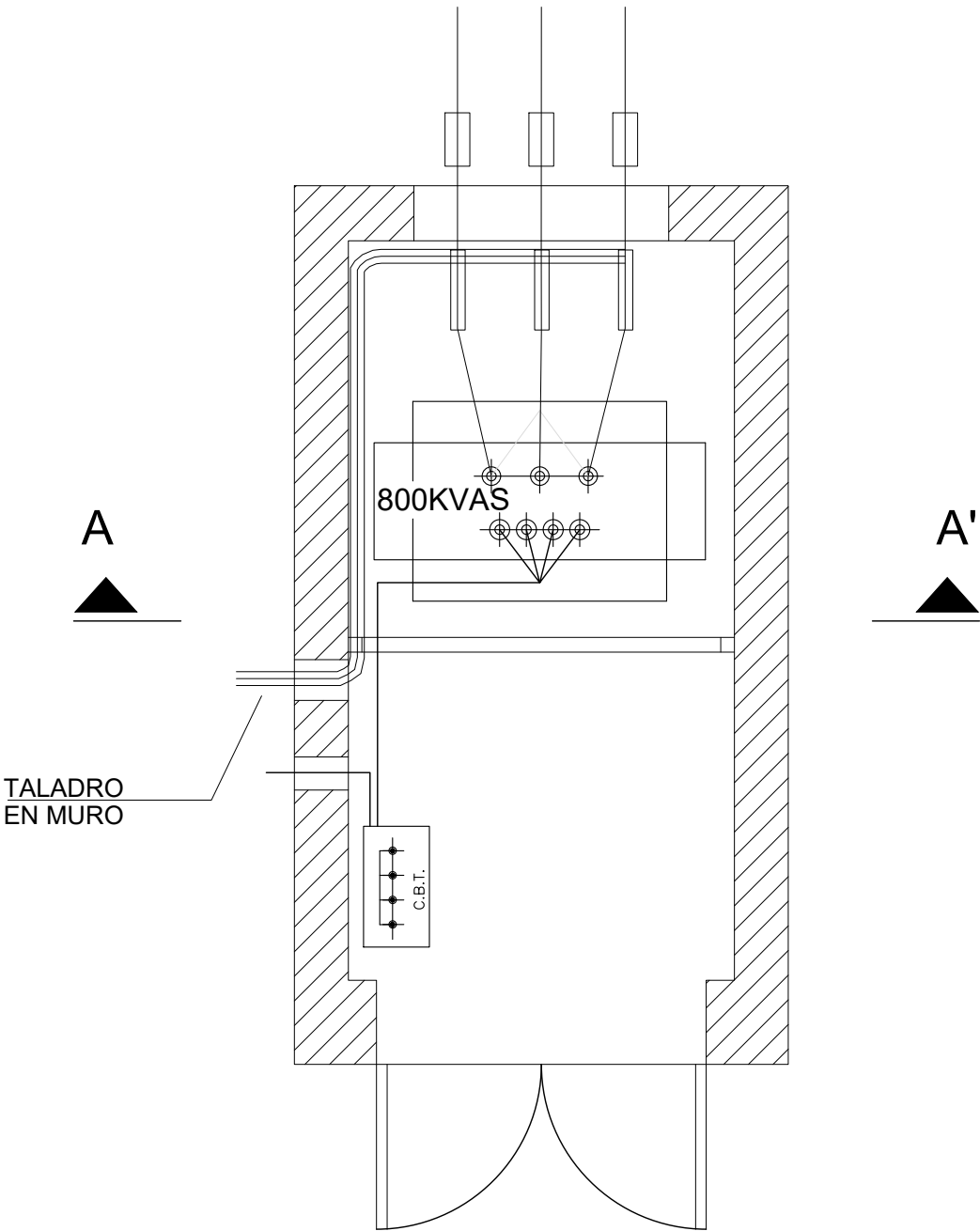


ALZADO PRINCIPAL



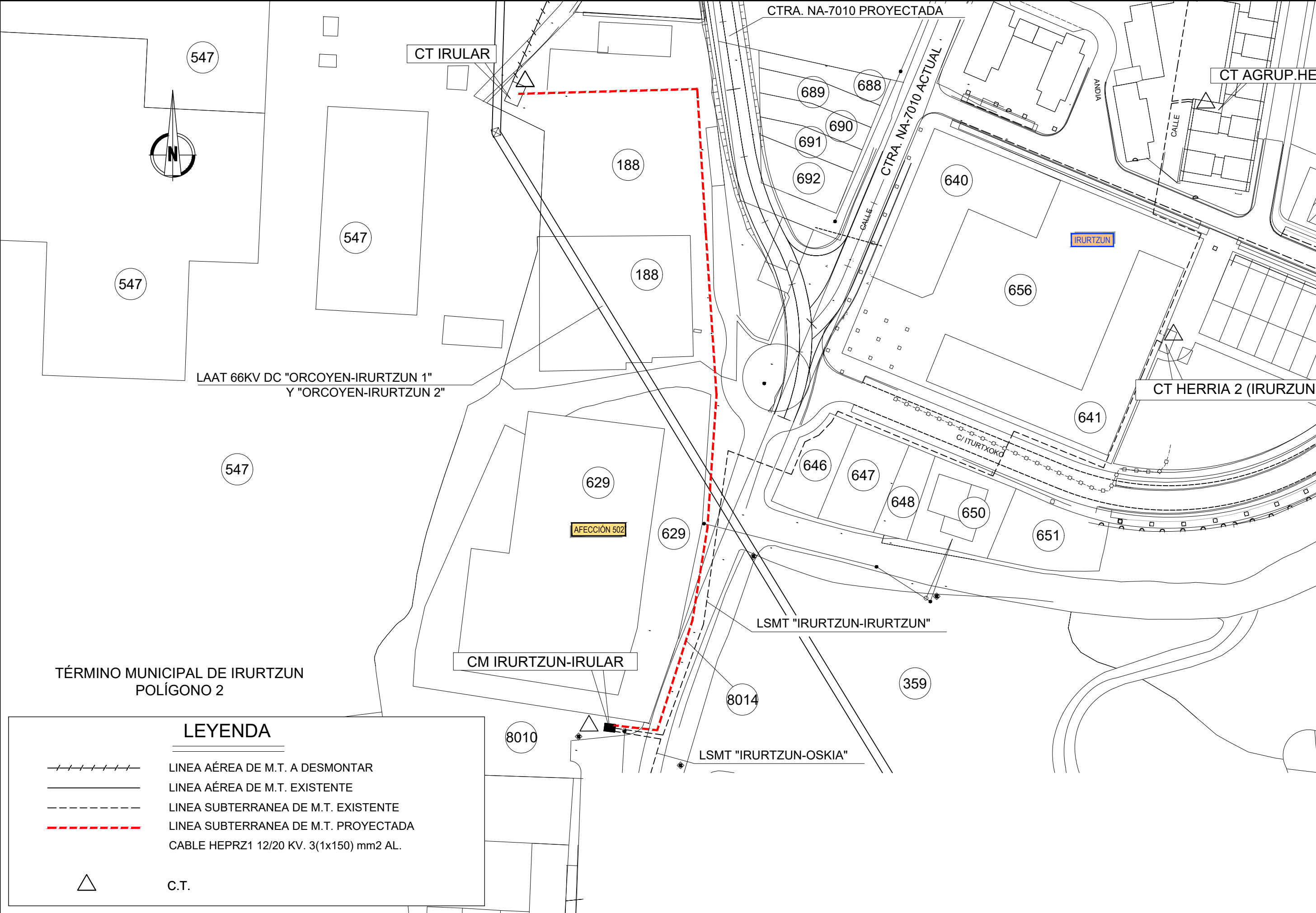
SECCION A-A'

PLANTA GENERAL

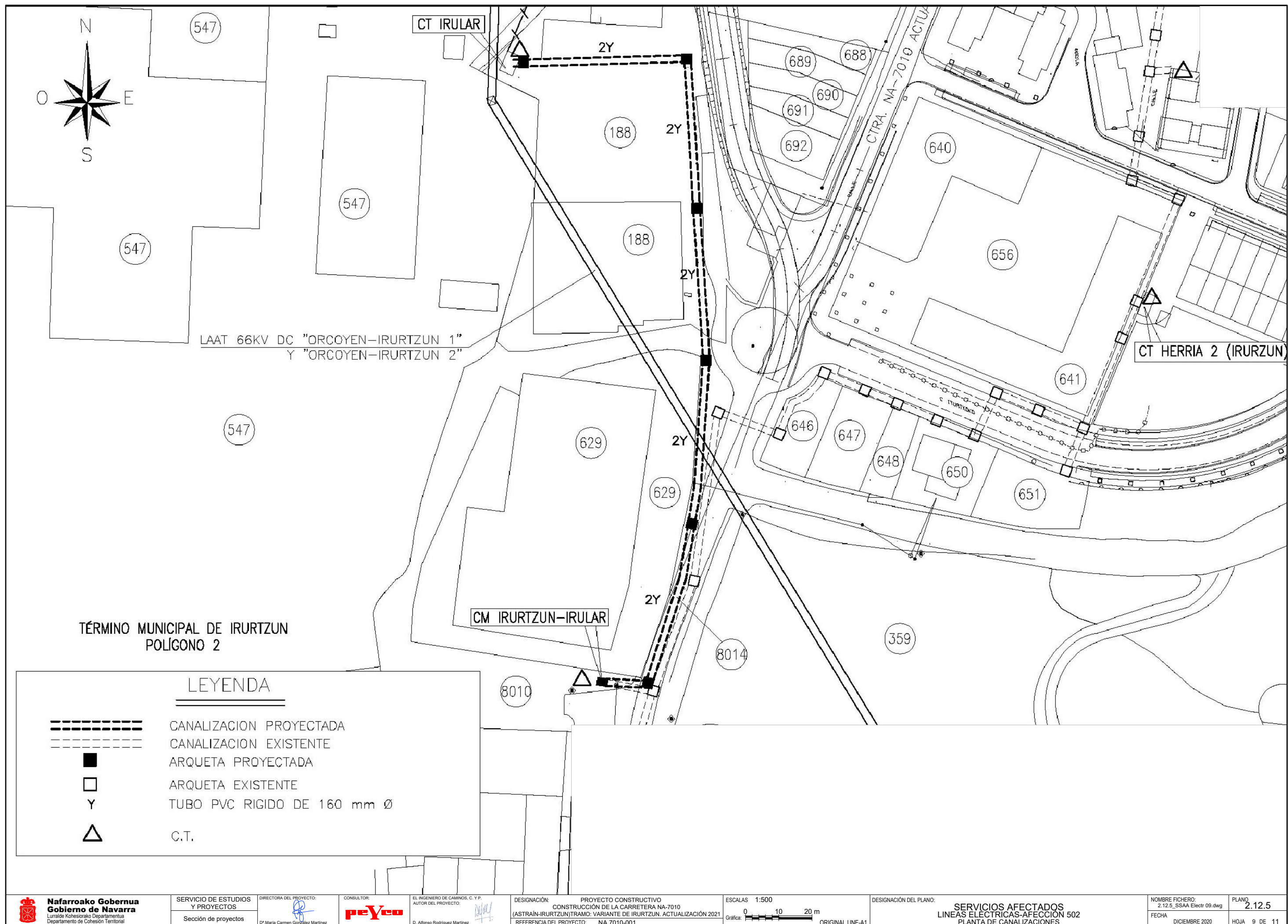




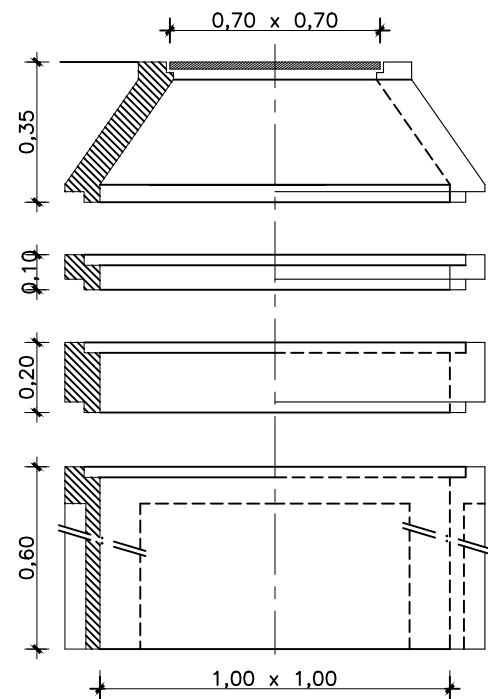






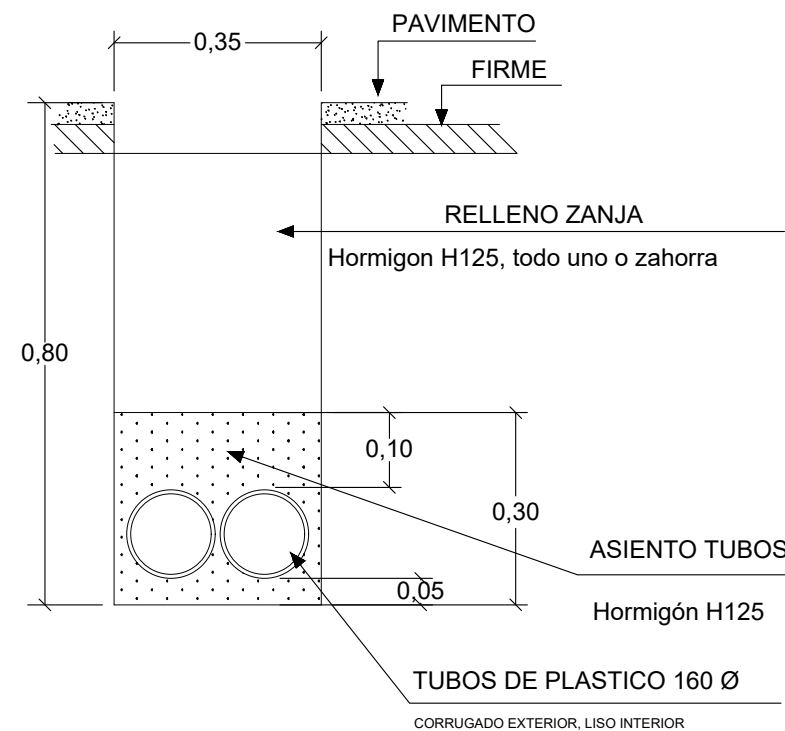


# ARQUETA PREFABRICADA TIPO IBERDROLA



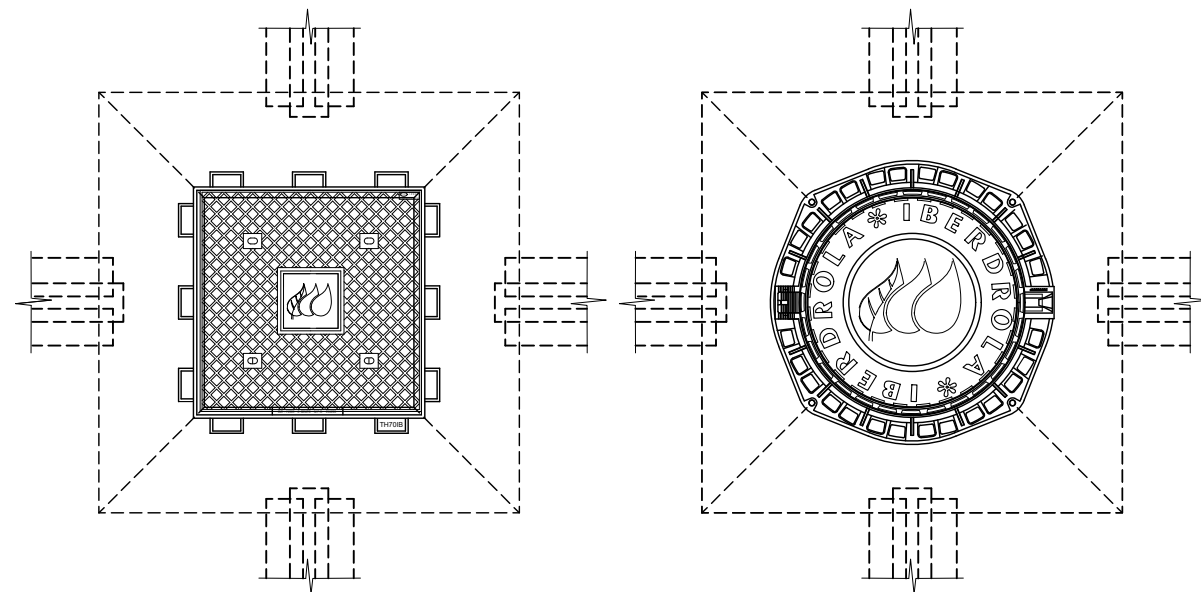
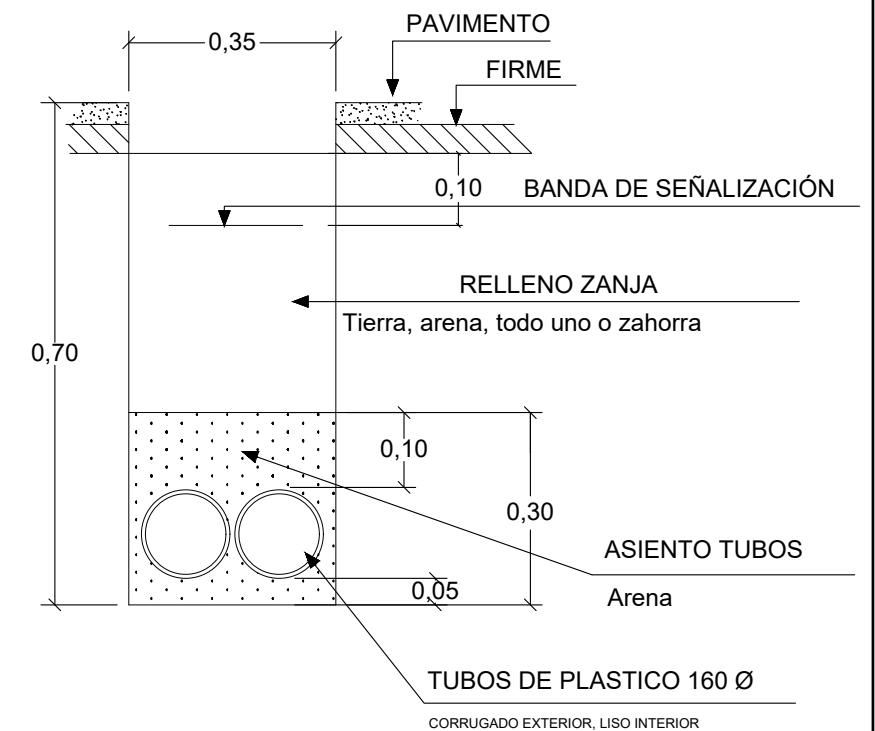
## CRUCES Y CALZADA

SECCION 2 Ø 160



## ACERA Y JARDINES

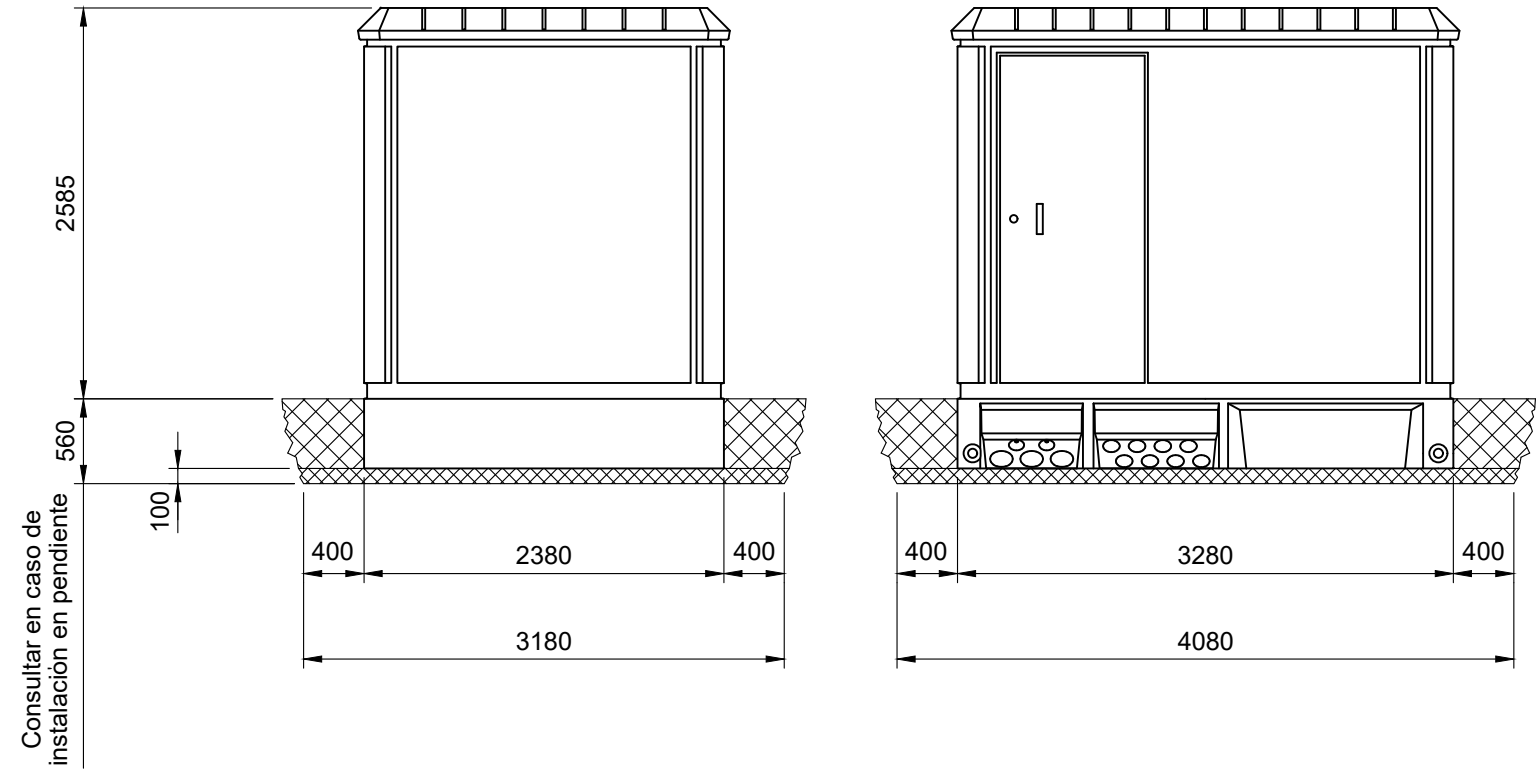
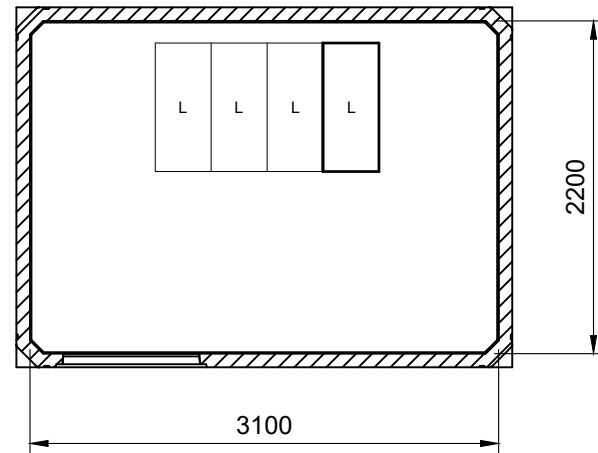
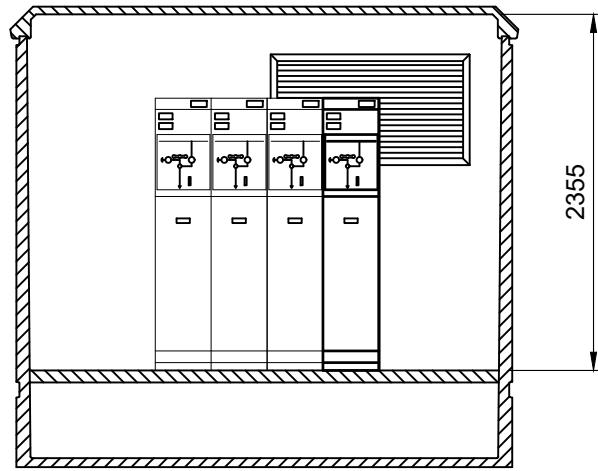
SECCION 2 Ø 160



ACERA  
M2-T2

CALZADA  
M3-T3

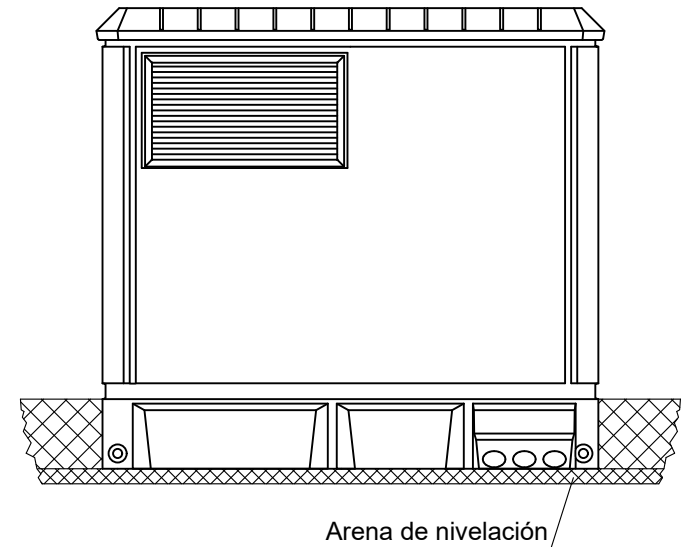
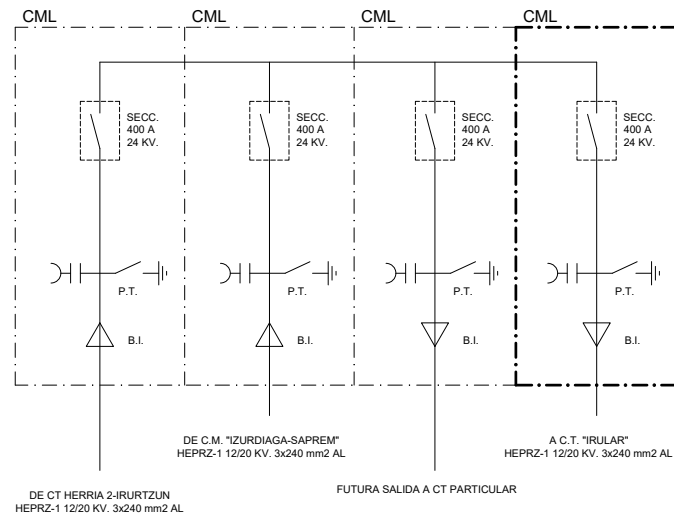


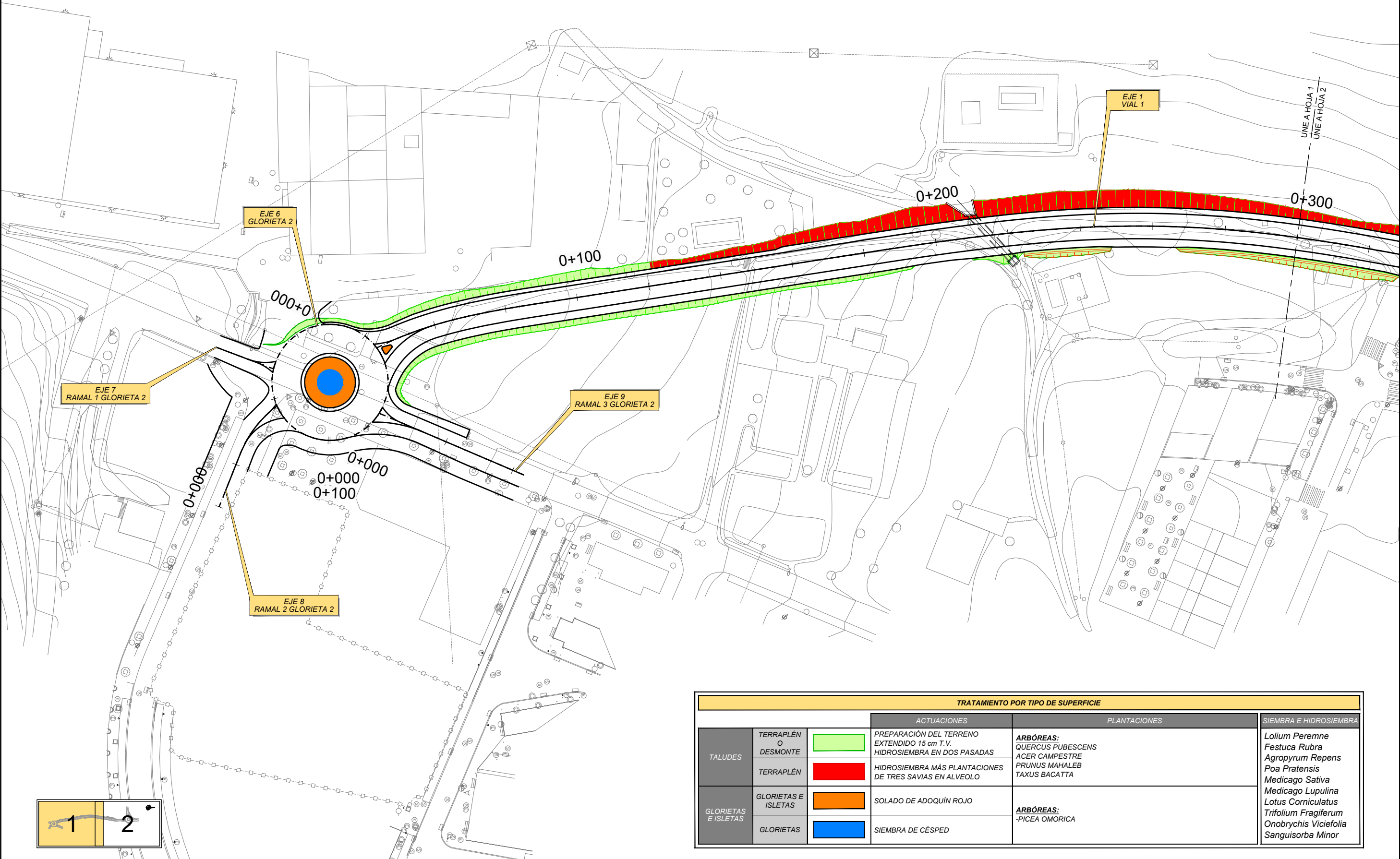


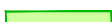
DIMENSIONES DE LA EXCAVACION  
4.08 m. ancho x 3.18 m. fondo x 0.56 m. profund.

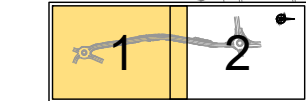
## ESQUEMA UNIFILAR

C.M. "IRURTZUN-IRULAR"  
CELDAS: 3L(EXIST)+1L(PROY.)

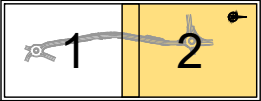
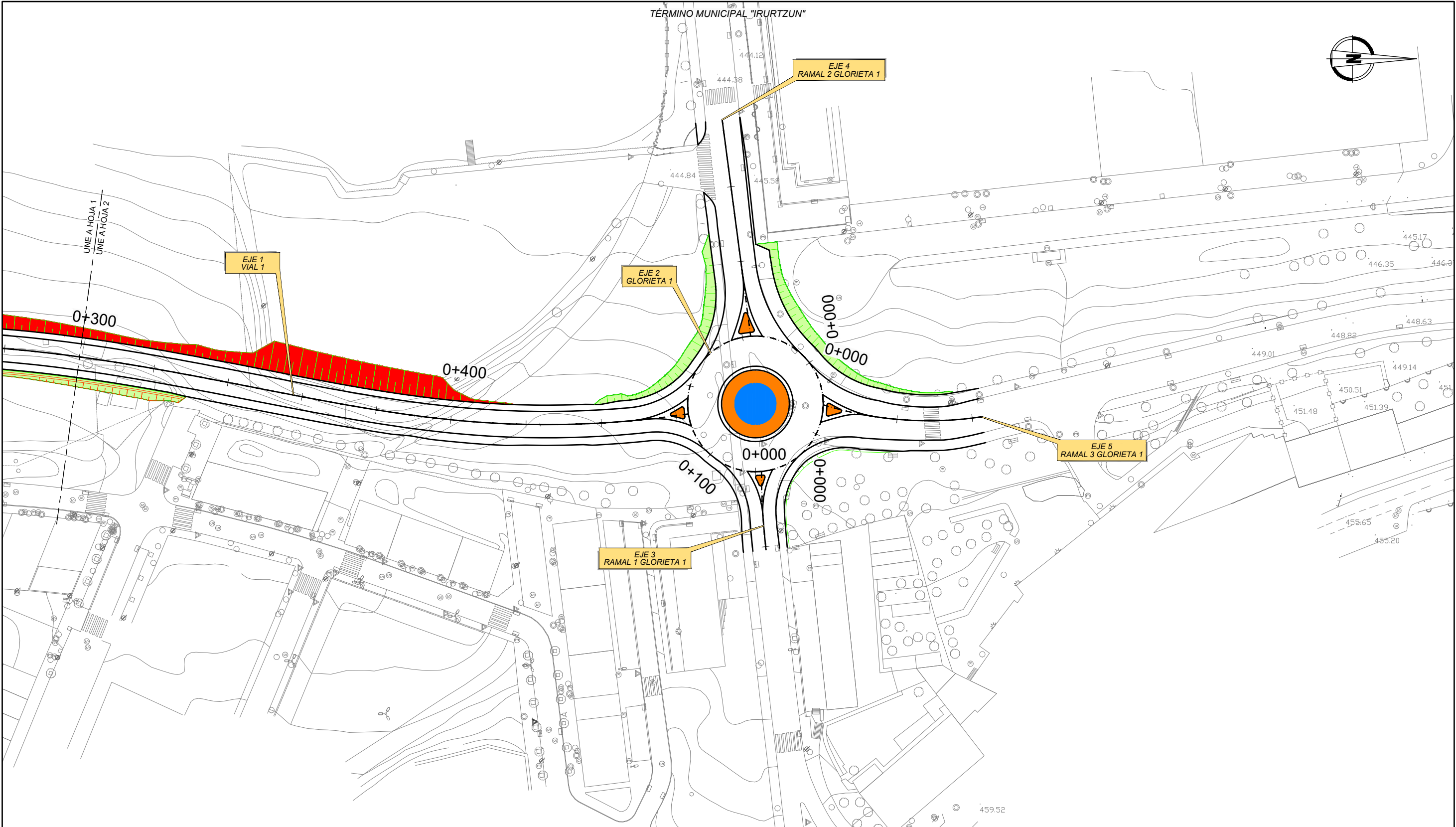


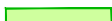


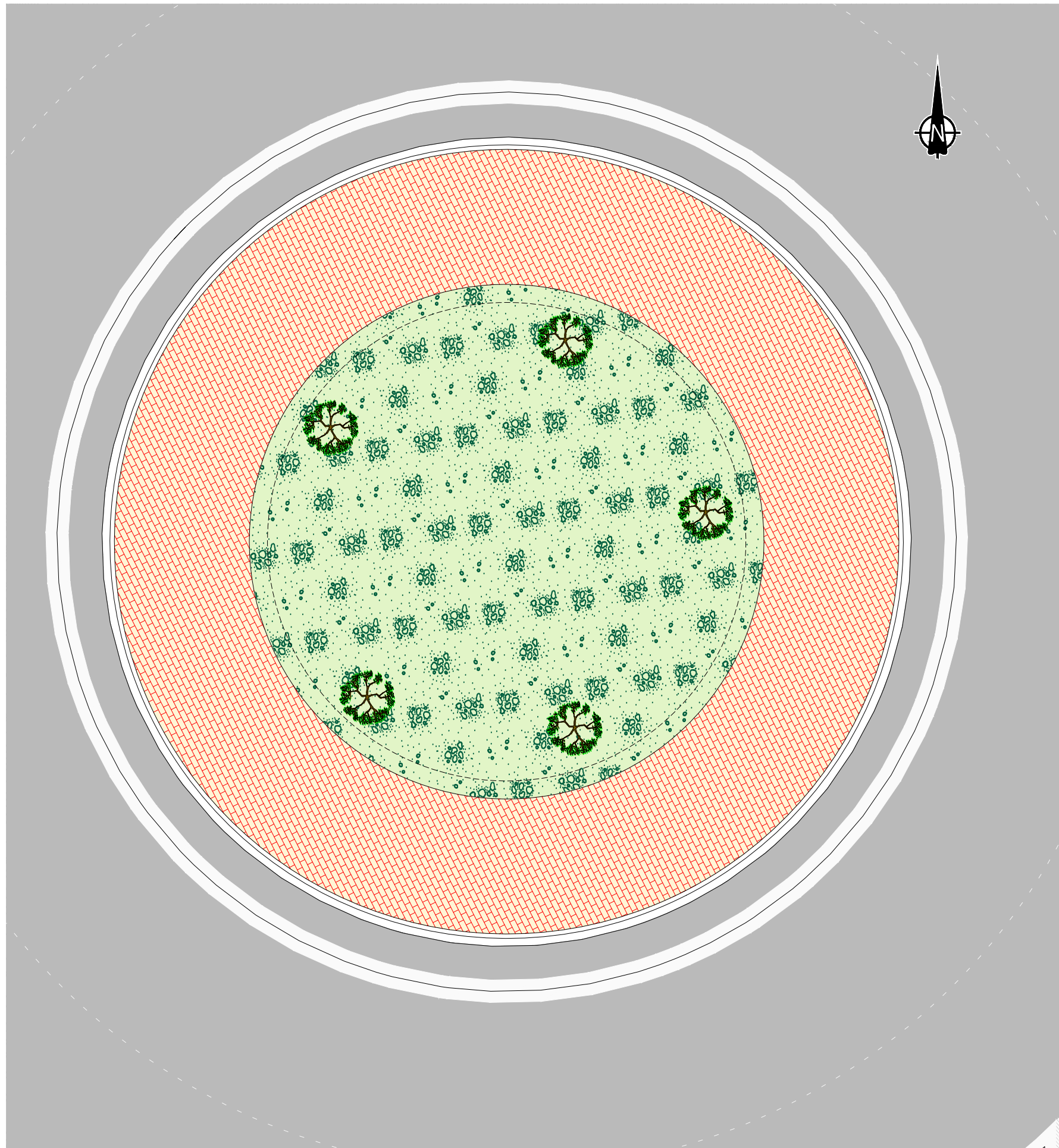
| TRATAMIENTO POR TIPO DE SUPERFICIE |                      |                                                                                       |                                                                                |                                                                                     |                                                                                                                                                                                                         |
|------------------------------------|----------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |                      |                                                                                       | ACTUACIONES                                                                    | PLANTACIONES                                                                        | SIEMBRA E HIDROSIEMBRA                                                                                                                                                                                  |
| TALUDES                            | TERRAPLÉN O DESMONTE |  | PREPARACIÓN DEL TERRENO<br>EXTENDIDO 15 cm T.V.<br>HIDROSIEMBRA EN DOS PASADAS | ARBÓREAS:<br>QUERCUS PUBESCENS<br>ACER CAMPESTRE<br>PRUNUS MAHALEB<br>TAXUS BACATTA | Lolium Perenne<br>Festuca Rubra<br>Agropyrum Repens<br>Poa Pratensis<br>Medicago Sativa<br>Medicago Lupulina<br>Lotus Corniculatus<br>Trifolium Fragiferum<br>Onobrychis Vicifolia<br>Sanguisorba Minor |
|                                    | TERRAPLÉN            |  | HIDROSIEMBRA MÁS PLANTACIONES<br>DE TRES SAVIAS EN ALVEOLO                     |                                                                                     |                                                                                                                                                                                                         |
| GLORIETAS E ISLETAS                | GLORIETAS E ISLETAS  |  | SOLADO DE ADOQUÍN ROJO                                                         | ARBÓREAS:<br>-PICEA OMORICA                                                         |                                                                                                                                                                                                         |
|                                    | GLORIETAS            |  | SIEMBRA DE CÉSPED                                                              |                                                                                     |                                                                                                                                                                                                         |







| TRATAMIENTO POR TIPO DE SUPERFICIE |                      |                                                                                       |                                                                             |                                                                                     |                                                                                                                                                                                                         |  |
|------------------------------------|----------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                    |                      |                                                                                       | ACTUACIONES                                                                 | PLANTACIONES                                                                        | SIEMBRA E HIDROSIEMBRA                                                                                                                                                                                  |  |
| TALUDES                            | TERRAPLÉN O DESMONTE |  | PREPARACIÓN DEL TERRENO EXTENDIDO 15 cm T.V.<br>HIDROSIEMBRA EN DOS PASADAS | ARBÓREAS:<br>QUERCUS PUBESCENS<br>ACER CAMPESTRE<br>PRUNUS MAHALEB<br>TAXUS BACATTA | Lolium Perenne<br>Festuca Rubra<br>Agropyrum Repens<br>Poa Pratensis<br>Medicago Sativa<br>Medicago Lupulina<br>Lotus Corniculatus<br>Trifolium Fragiferum<br>Onobrychis Vicifolia<br>Sanguisorba Minor |  |
|                                    | TERRAPLÉN            |  | HIDROSIEMBRA MÁS PLANTACIONES DE TRES SAVIAS EN ALVEOLO                     |                                                                                     |                                                                                                                                                                                                         |  |
| GLORIETAS E ISLETAS                | GLORIETAS E ISLETAS  |  | SOLADO DE ADOQUÍN ROJO                                                      | ARBÓREAS:<br>-PICEA OMORICA                                                         |                                                                                                                                                                                                         |  |
|                                    | GLORIETAS            |  | SIEMBRA DE CÉSPED                                                           |                                                                                     |                                                                                                                                                                                                         |  |



GLORIETA 1  
EJE 2

| GLORIETA 1 |                       | MEDIDA            |
|------------|-----------------------|-------------------|
| A          | 3,00 m                | Ancho de banda    |
| B          | 102,72 m <sup>2</sup> | Superficie césped |

LEYENDA

A

Solado adoquín rojo

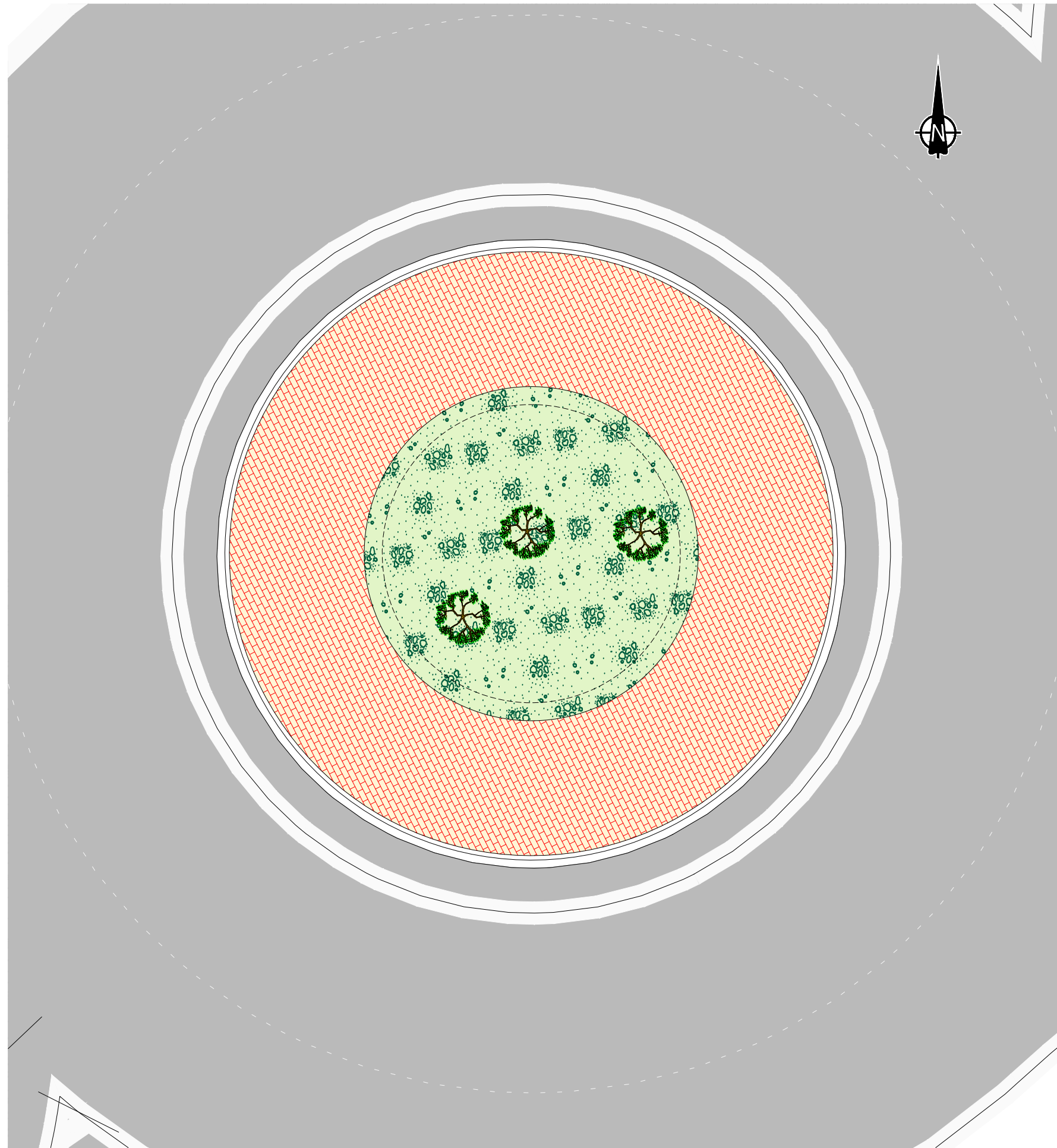
B

Siembra de césped

C

Picea omorica (5 uds.)





GLORIETA 2  
EJE 6

| GLORIETA 2 |          | MEDIDA            |
|------------|----------|-------------------|
| A          | 3,00 m   | Ancho de banda    |
| B          | 43,44 m² | Superficie césped |

LEYENDA

A

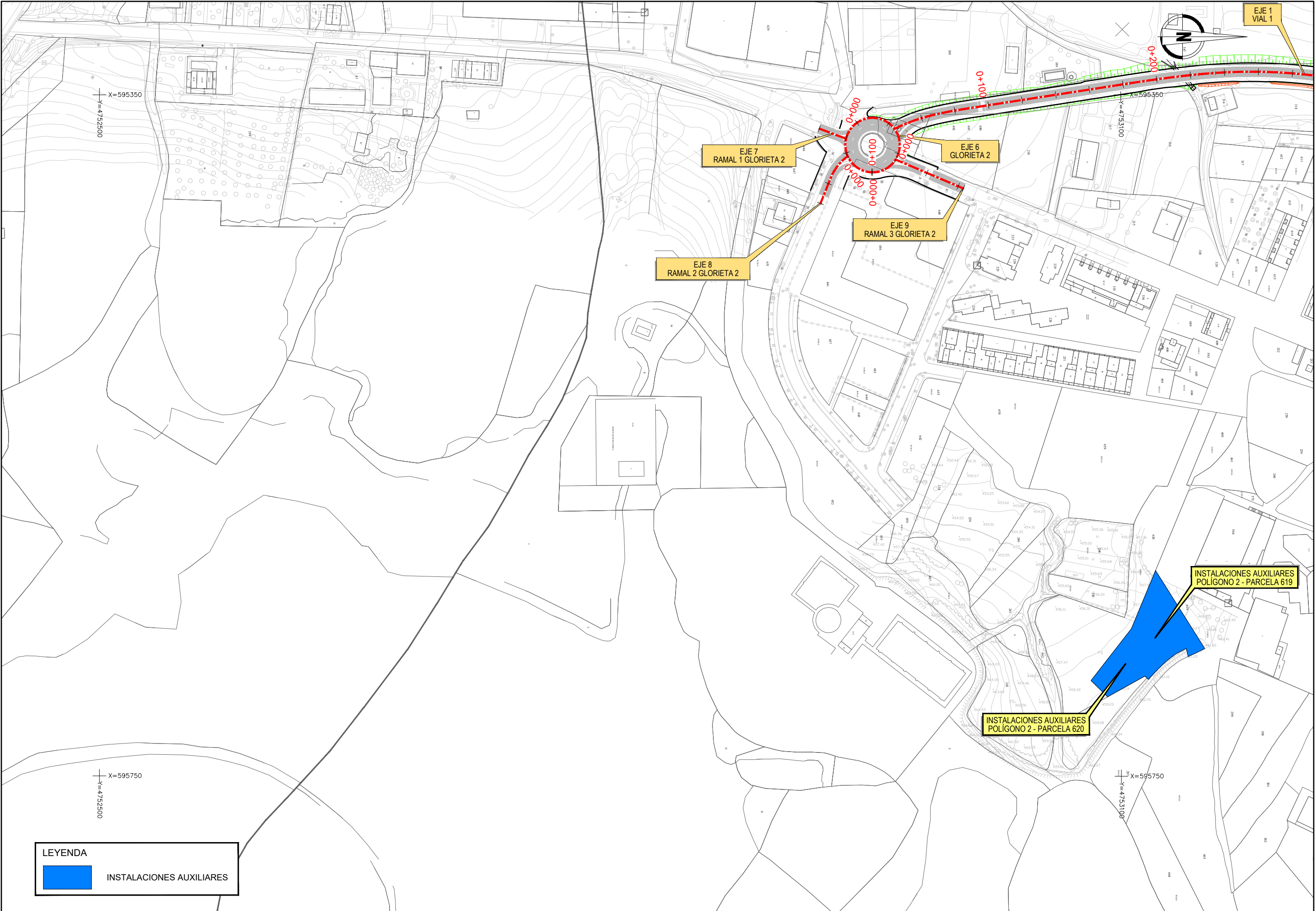
Solado adoquín rojo

B

Siembra de césped

C

Picea omorica (3 uds.)



LEYENDA

INSTALACIONES AUXILIARES