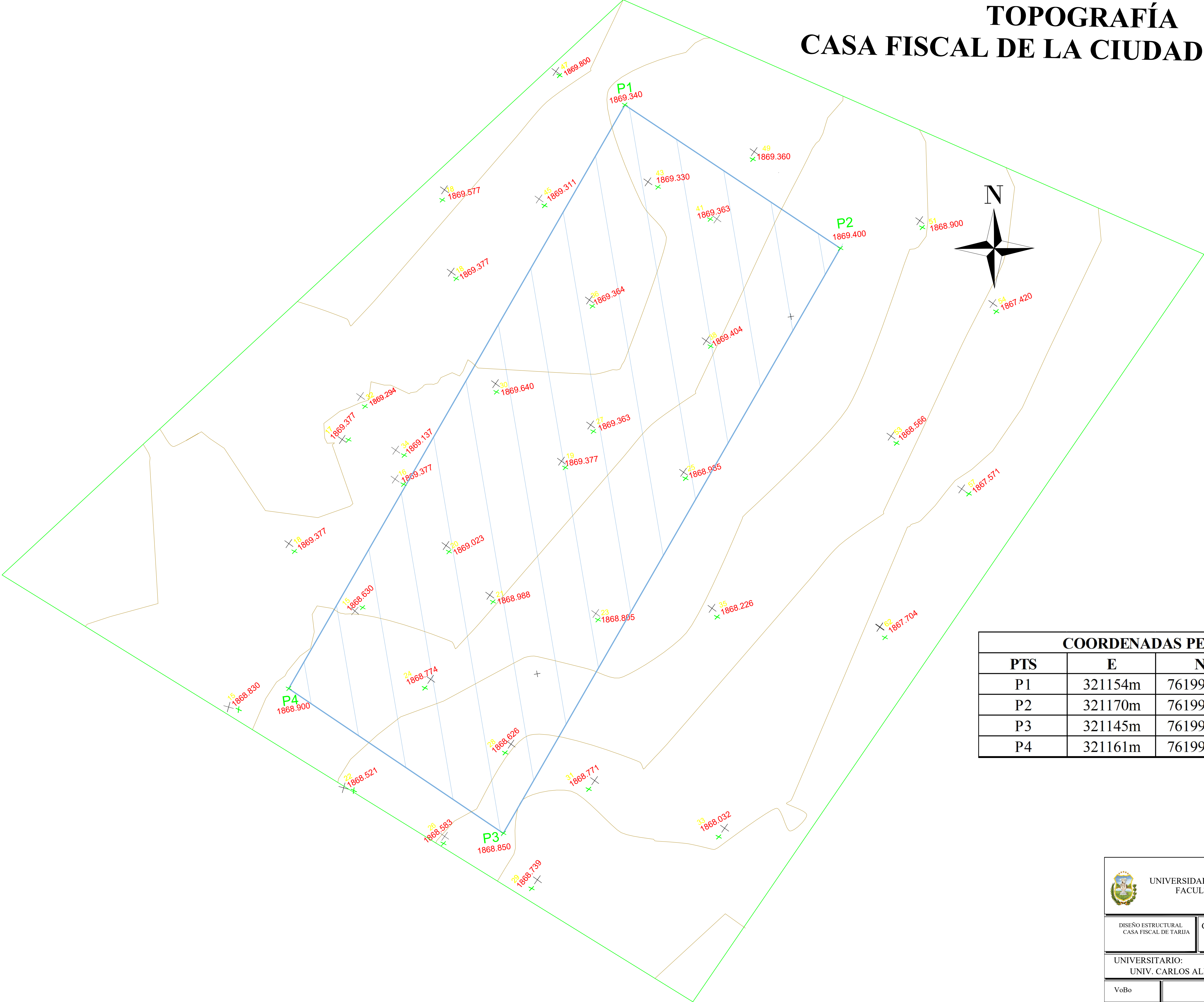


TOPOGRAFÍA

CASA FISCAL DE LA CIUDAD DE TARIJA



COORDENADAS PERIMETRALES			
PTS	E	N	ELEVACION
P1	321154m	7619975m	1869.340m
P2	321170m	7619970m	1869.400m
P3	321145m	7619950m	1868.900m
P4	321161m	7619945m	1868.850m



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA



DISEÑO ESTRUCTURAL
CASA FISCAL DE TARIJA

CONTENIDO:
PLANO TOPOGRÁFICO

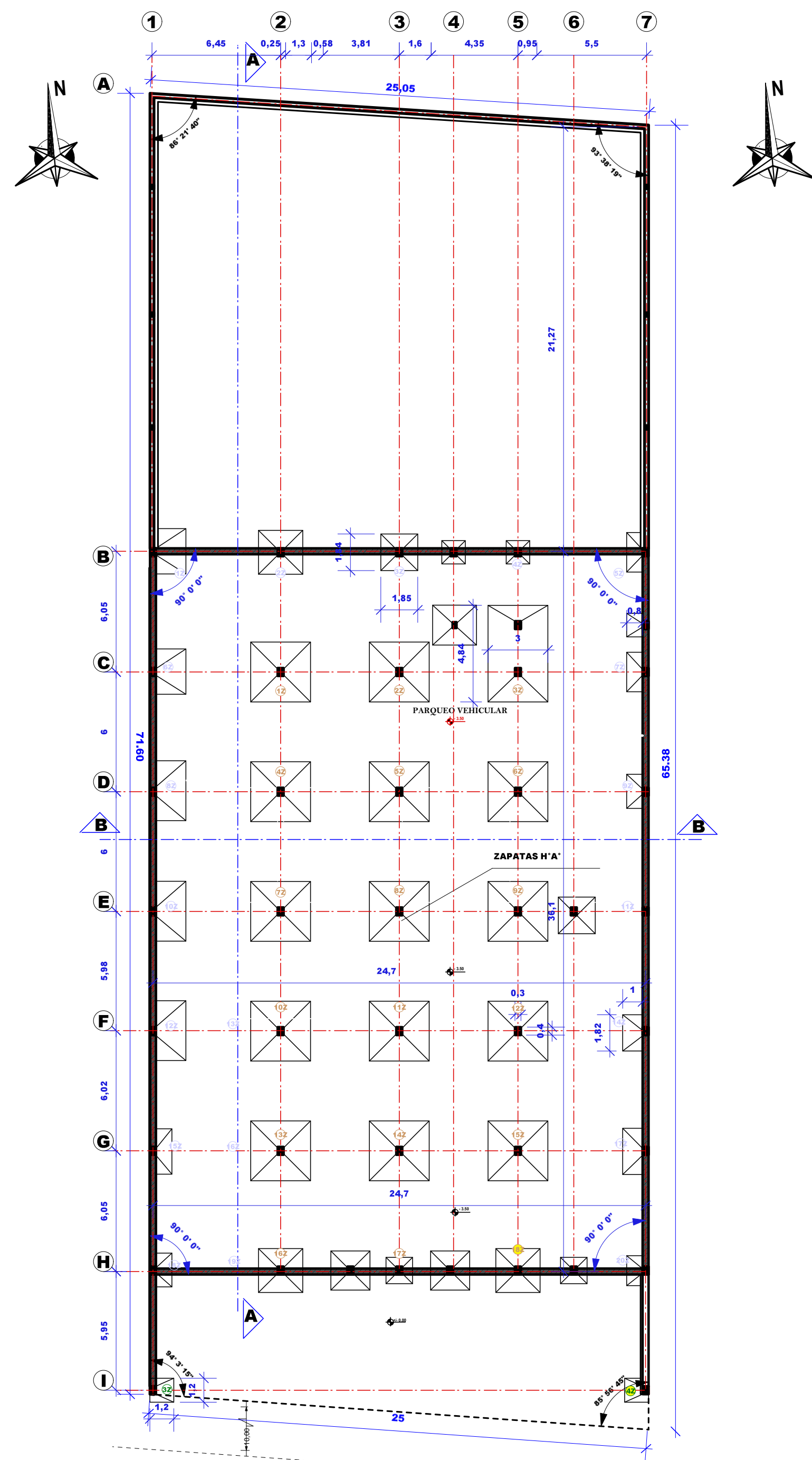
UNIVERSITARIO:
UNIV. CARLOS ALBERTO ZENTENO BENITEZ

ESCALA:
1:100

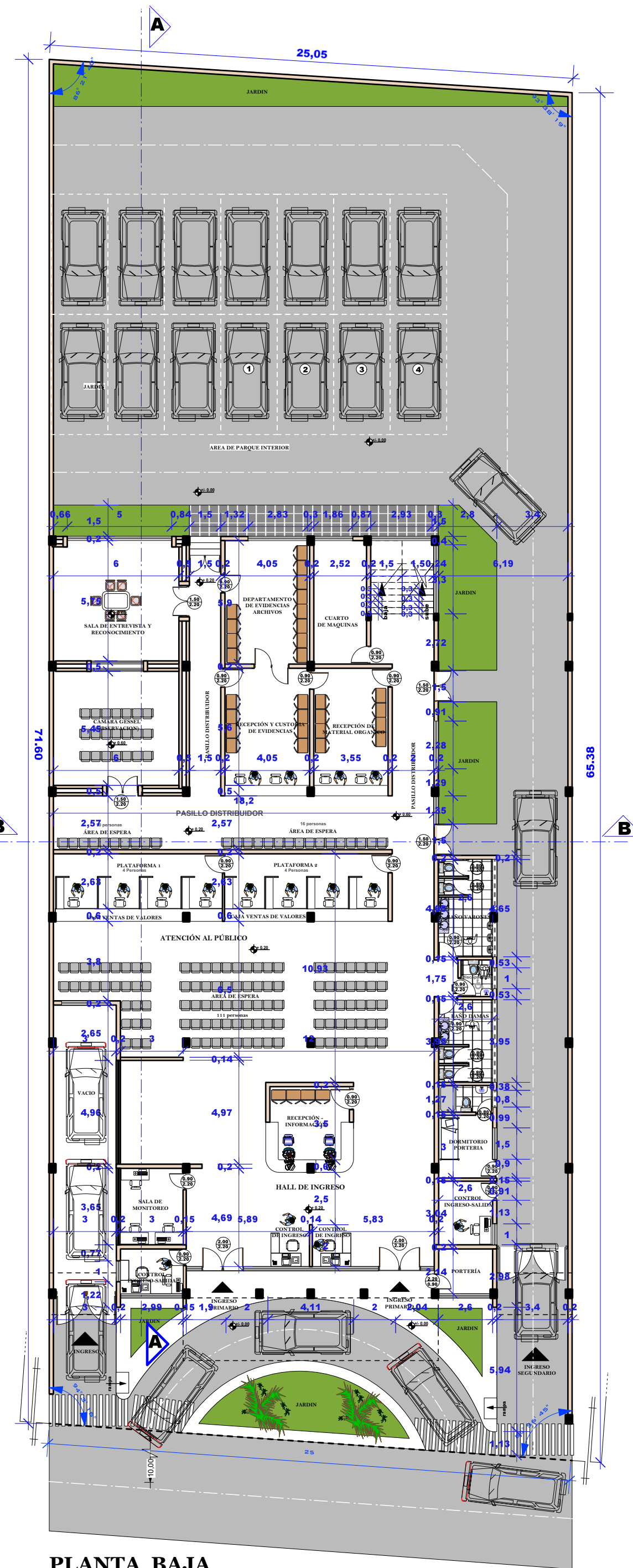
PLANO

VoBo

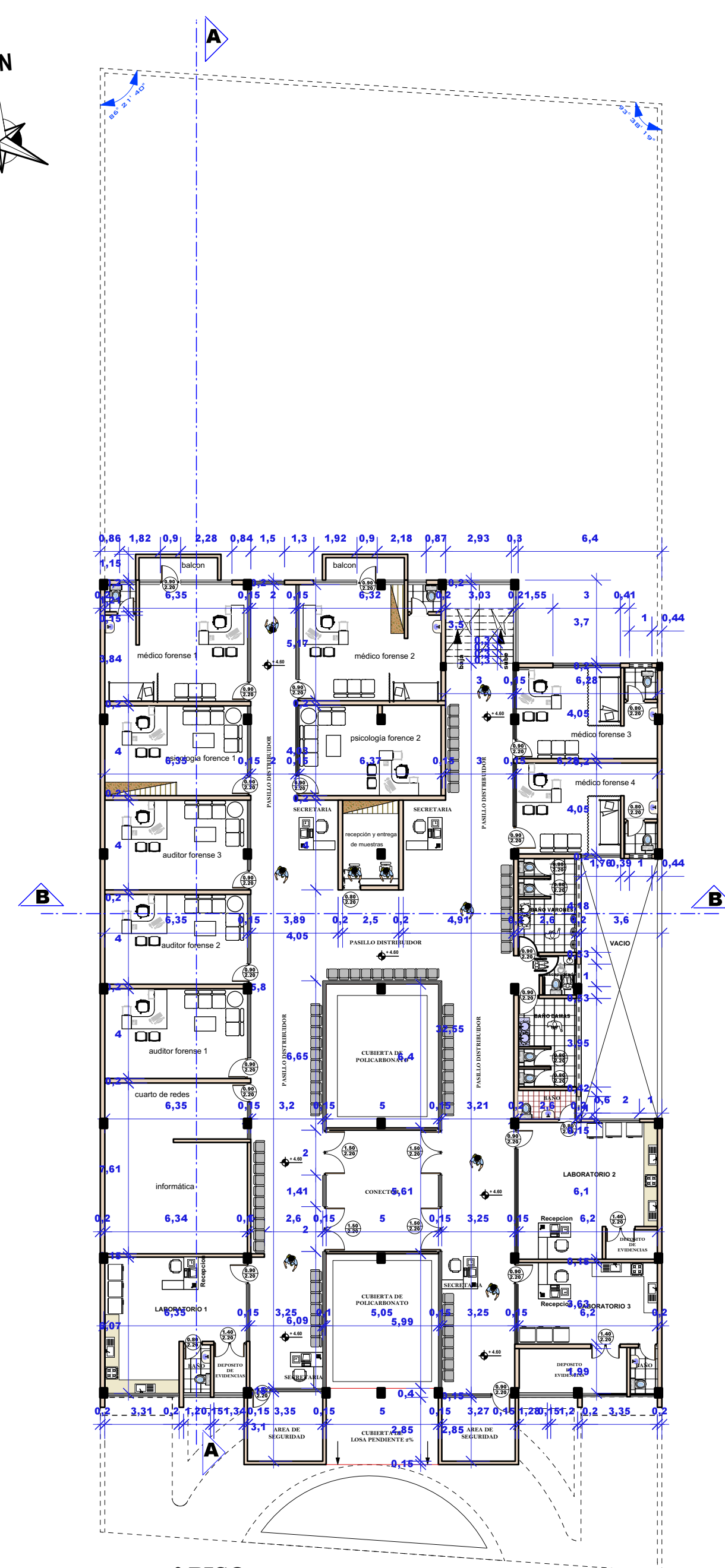
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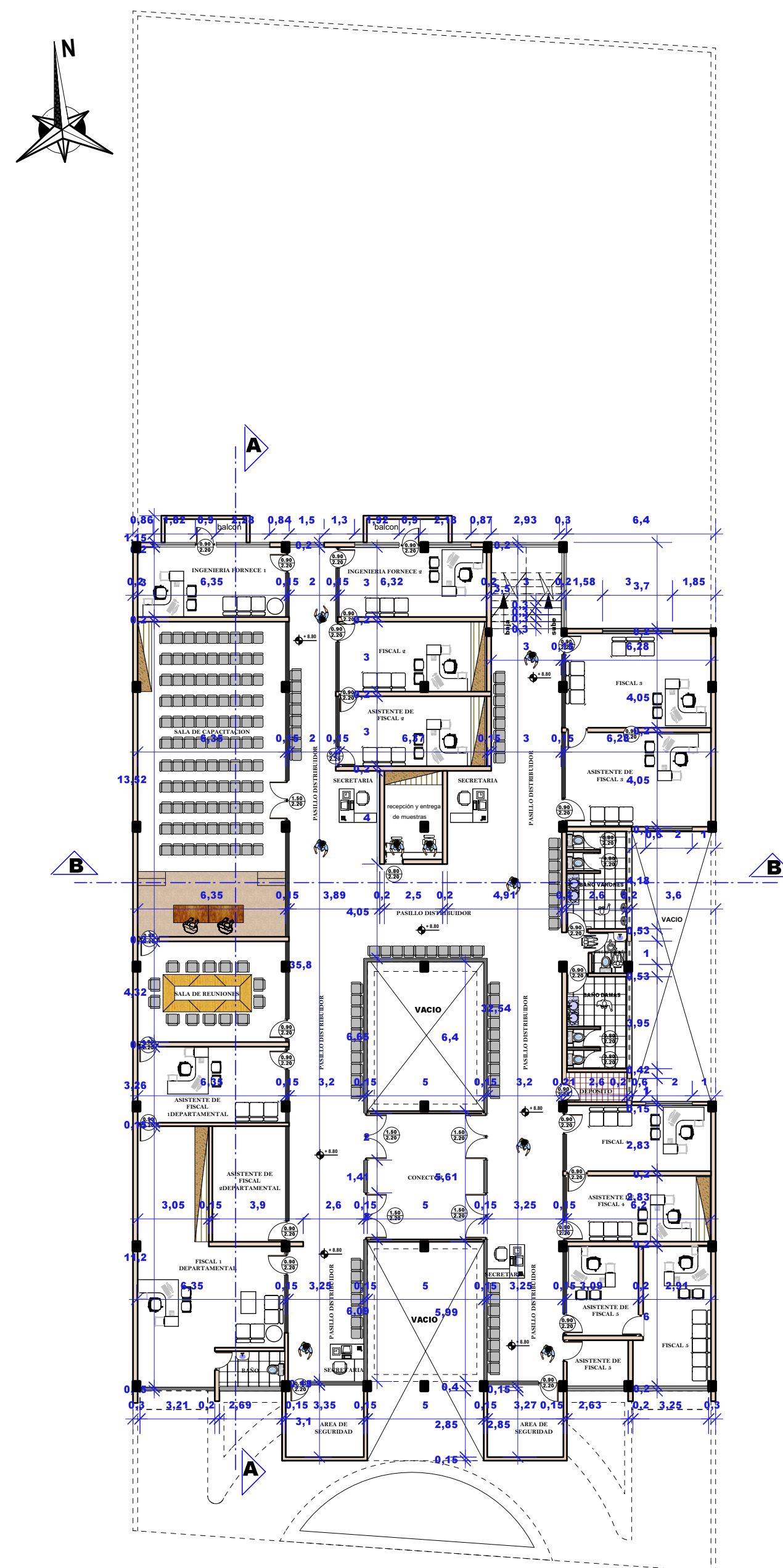
PLANO DE CIMENTACIÓN
ESC 1:200



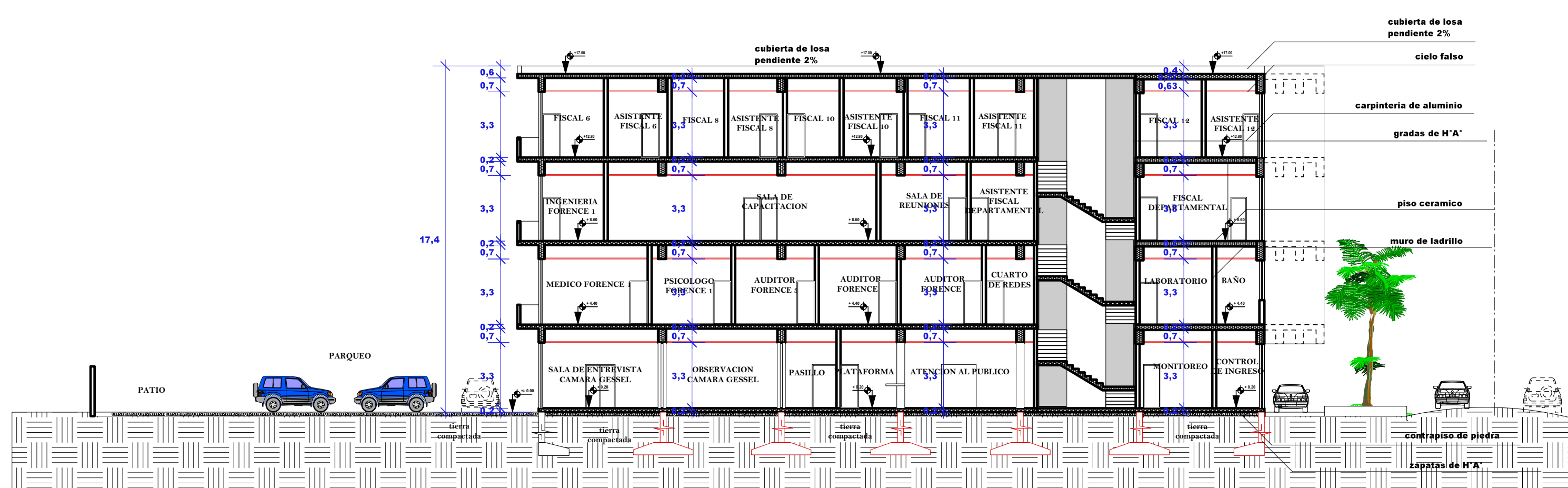
PLANTA BAJA
ESC 1:200



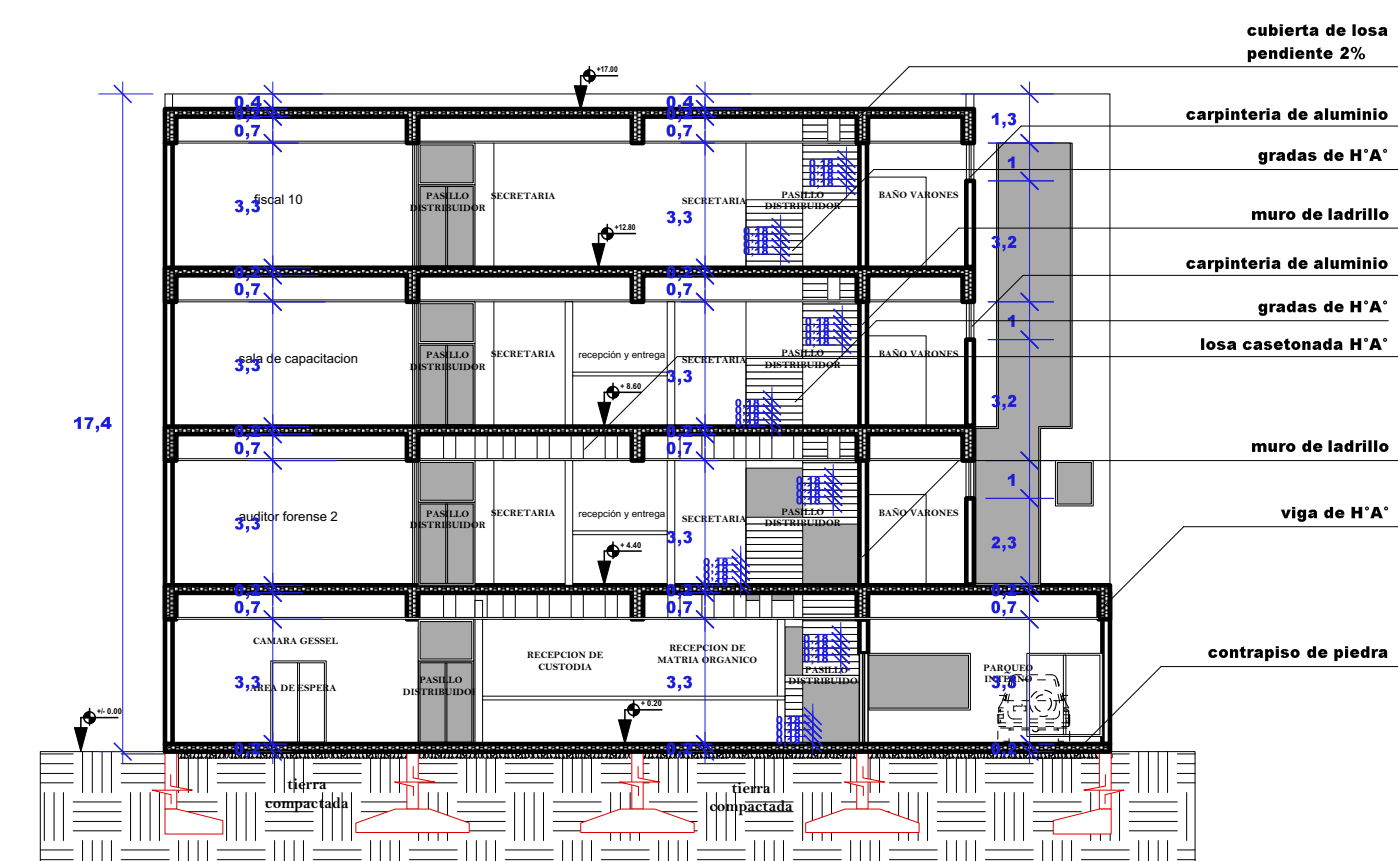
1° PISO
ESC 1:200



2° PISO
ESC 1:200



CORTE -A-A
ESC 1:200



CORTE -B-B
ESC 1:200

NOMBRE DEL PROYECTO: DISEÑO ARQUITECTÓNICO DE LA CASA FISCAL DE TARIJA



GOBIERNO AUTÓNOMO
DEPARTAMENTAL DE TARIJA

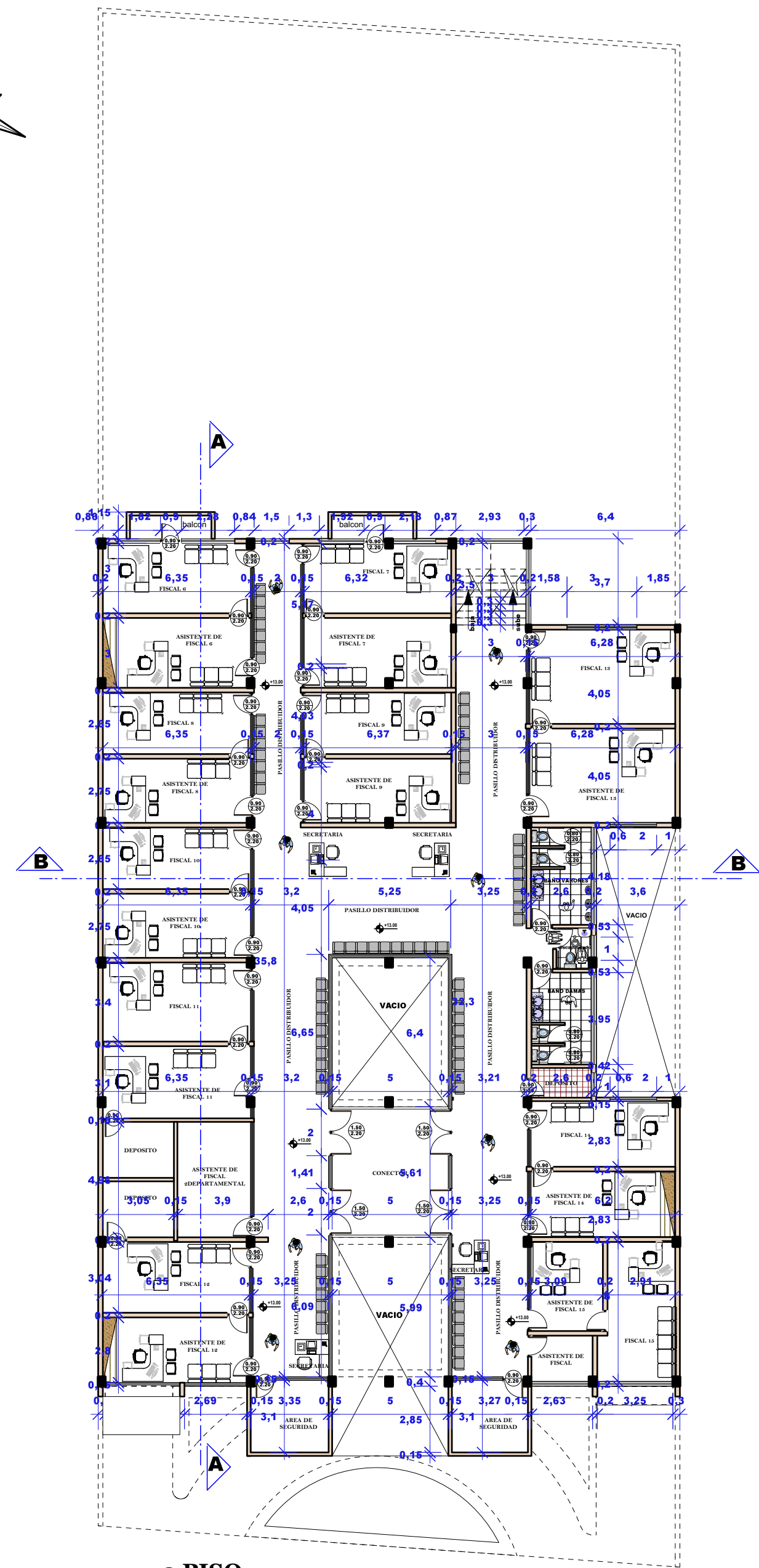
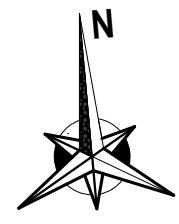
UBICACIÓN TARIJA
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FECHA: DICIEMBRE 2024

LÁMINA:

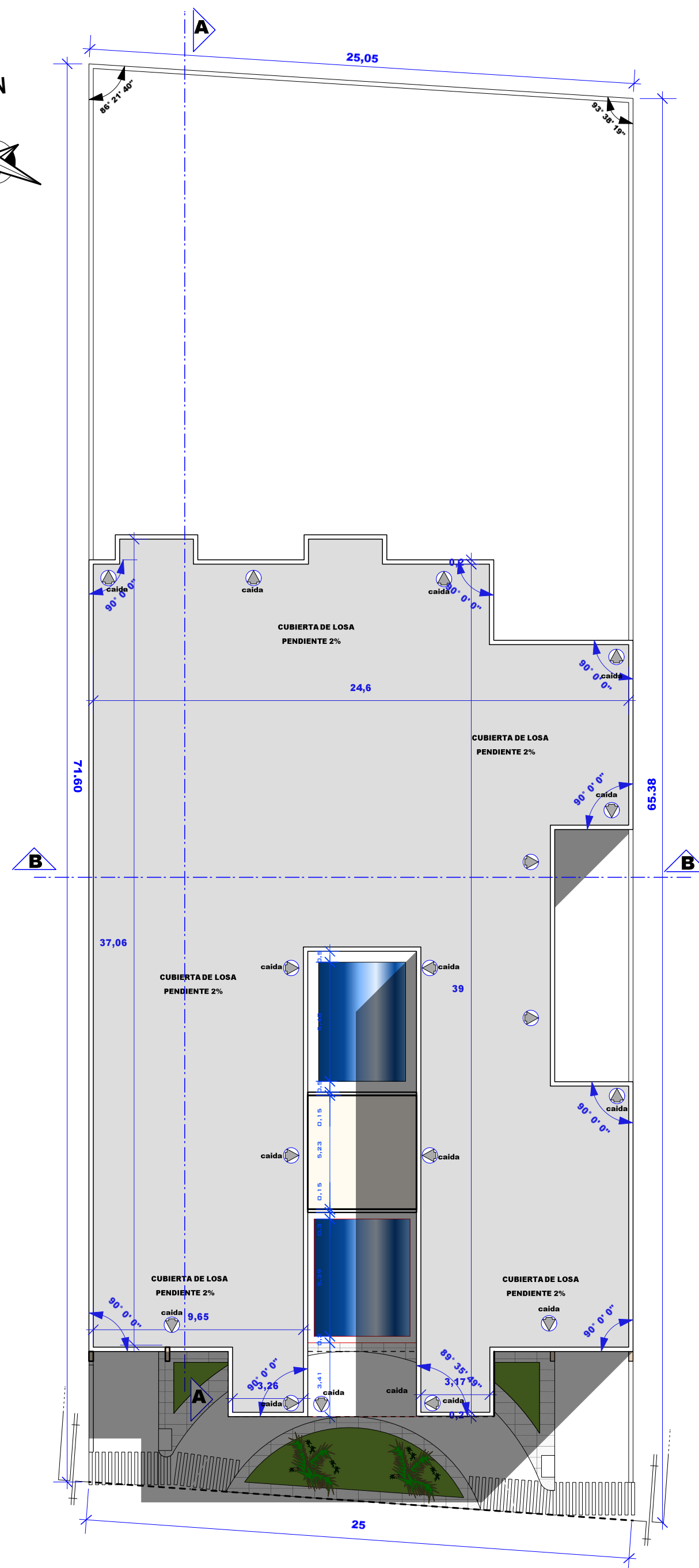
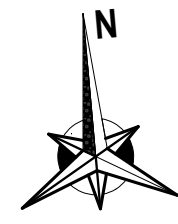
PLANOS ARQUITECTÓNICOS

Nº LÁMINA:

1 de 2



3 PISO
ESC 1:200



PLANO DE CUBIERTA Y EMPLAZAMIENTO
ESC 1:200



PERSPECTIVA 1



PERSPECTIVA 2



PERSPECTIVA 3



ELEVACIÓN FRONTAL
ESC 1:200



ELEVACIÓN POSTERIOR
ESC 1:200

NOMBRE DEL PROYECTO: DISEÑO ARQUITECTÓNICO DE LA CASA FISCAL DE TARIJA



GOBIERNO AUTÓNOMO
DEPARTAMENTAL DE TARIJA

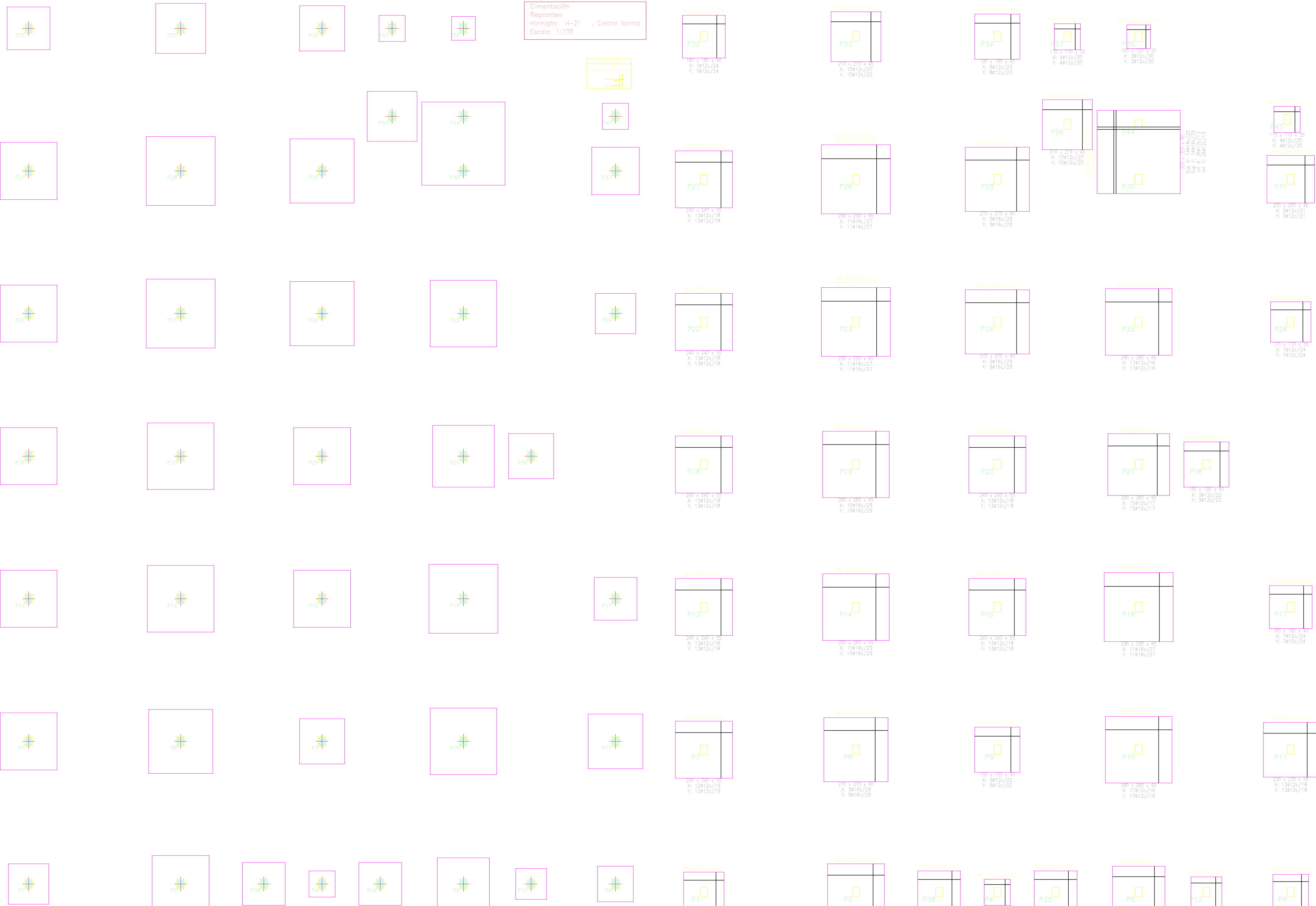
UBICACIÓN
TARIJA
ESCALA:
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FECHA:
DICIEMBRE 2024

LÁMINA:

PLANOS ARQUITECTÓNICOS

Nº LÁMINA:

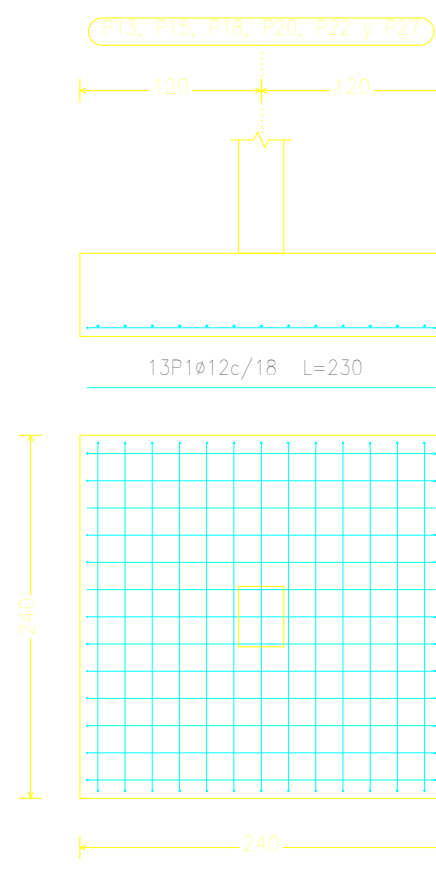
2 de 2



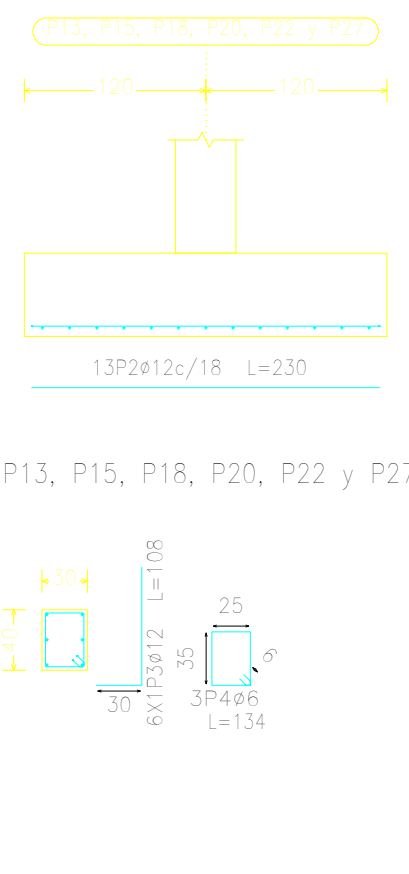
Cimentación Cimentación Hormigón: H-21 , Control Normal Escala: 1:100	Resumen Acero		Long. total (m)	Peso+10% (kg)	Total
	Cimentación				
	Despiece cimentación				
	AH-500CN	ø6			
		ø12	164,8	40	
		ø16	544,9	946	2628

CUADRO DE ELEMENTOS DE CIMENTACIÓN						
Referencias	Dimensiones (cm)	Canta (cm)	Armado inf. X	Armado inf. Y	Armado sup. X	Armado sup. Y
P1	170x170	35	7ø12c/25	7ø12c/25		
P3 y P7	240x240	55	12ø12c/19	12ø12c/19		
P8, P85 y P57	110x110	30	4ø12c/30	4ø12c/30		
P8	220x220	50	11ø12c/19	11ø12c/19		
P8	150x150	30	6ø12c/26	6ø12c/26		
P8, P24 y P22	270x270	60	9ø16c/23	9ø16c/23		
P8 y P36	190x190	40	9ø12c/22	9ø12c/22		
P10 y P25	280x280	65	17ø12c/16	17ø12c/16		
P11	230x230	50	13ø12c/18	13ø12c/18		
P12	130x130	30	4ø12c/30	4ø12c/30		
P13, P15, P18, P20, P22 y P27	240x240	55	13ø12c/18	13ø12c/18		
P14 y P19	280x280	65	10ø16c/23	10ø16c/23		
P16, P23 y P28	290x290	65	11ø16c/27	11ø16c/27		
P17, P32 y P36	180x180	40	7ø12c/24	7ø12c/24		
P21	260x260	60	15ø12c/17	15ø12c/17		
P26	170x170	35	7ø12c/24	7ø12c/24		
P31	200x200	45	9ø12c/21	9ø12c/21		
P33 y P36	210x210	45	10ø12c/20	10ø12c/20		
P34	190x190	40	8ø12c/23	8ø12c/23		
P35	100x100	30	3ø12c/30	3ø12c/30		
P39	180x180	40	8ø12c/23	8ø12c/23		
(P30-P44)	350x350	80	26ø12c/13	26ø12c/13	14ø16c/25	14ø16c/25

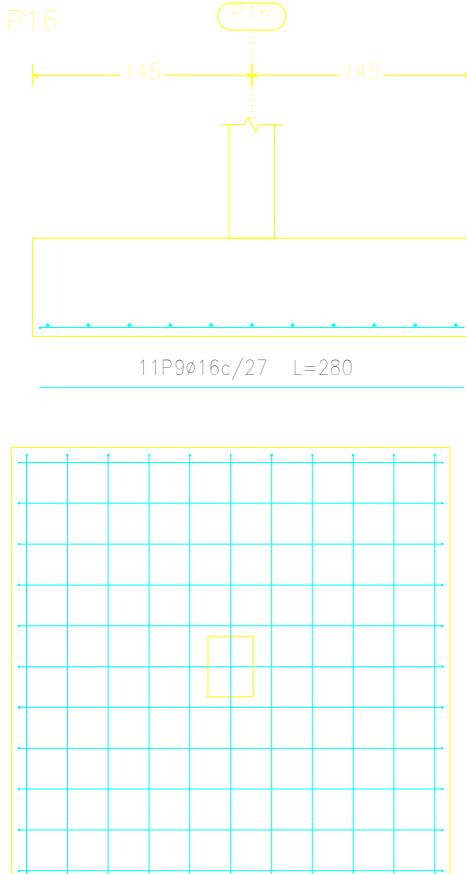
P13, P15, P18, P20, P22 y P27



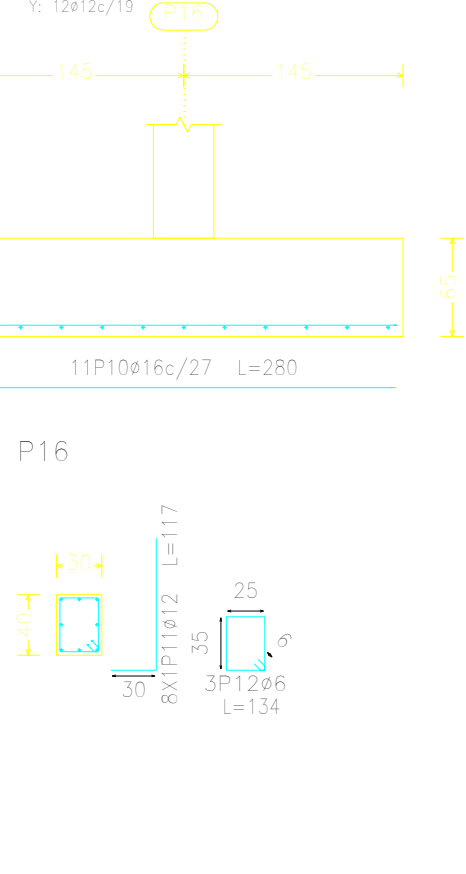
P13, P15, P18, P20, P22 y P27



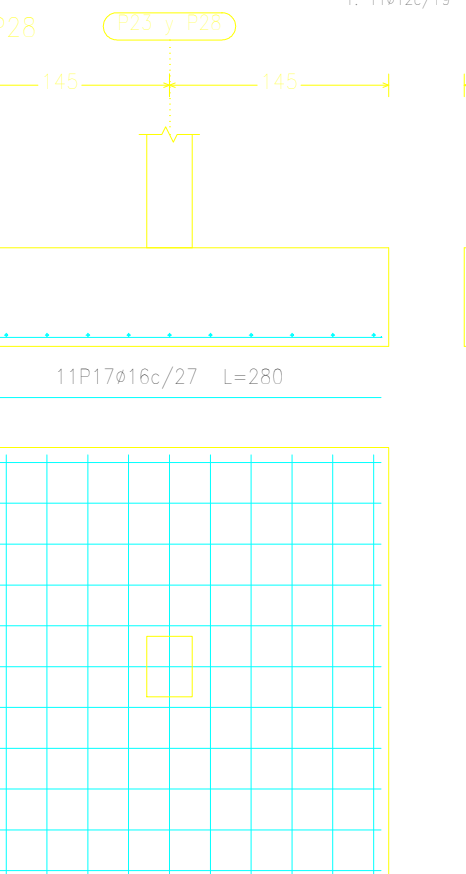
P16



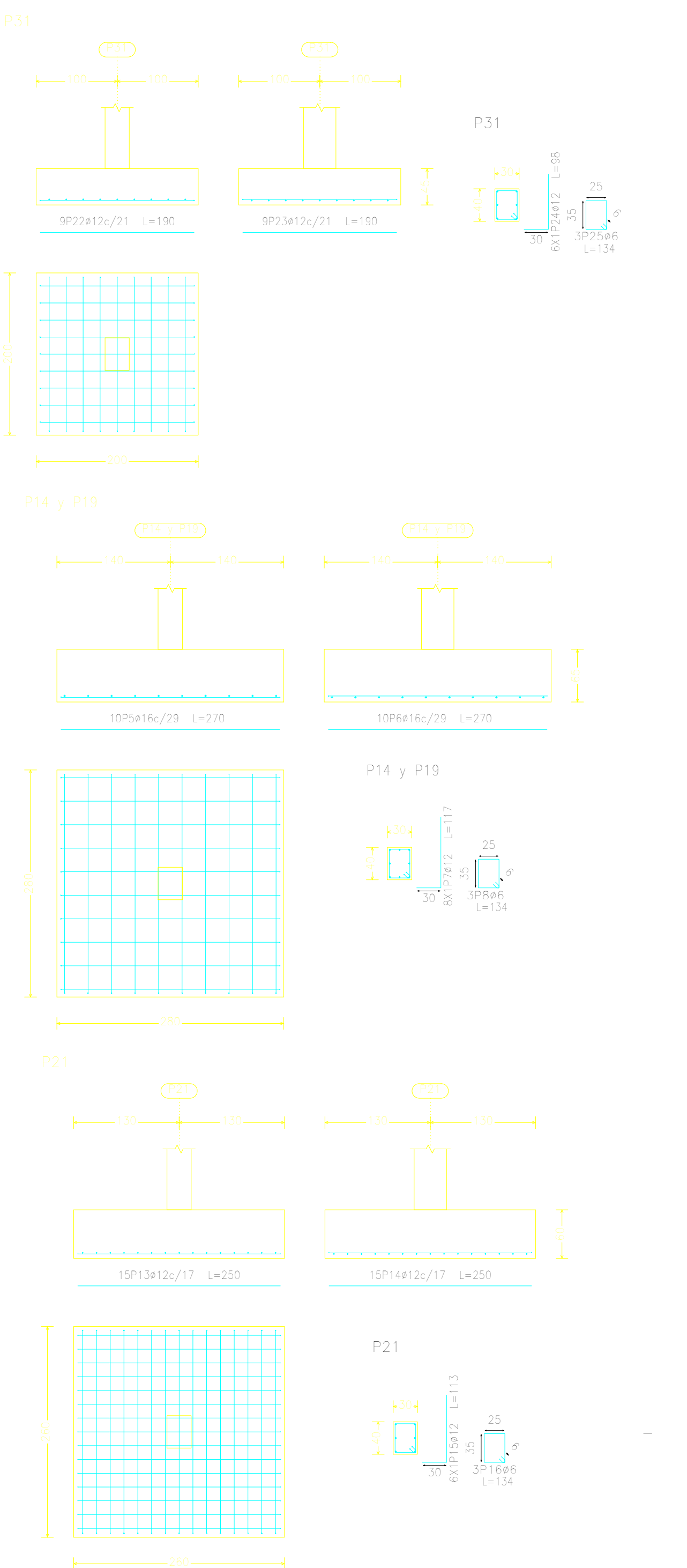
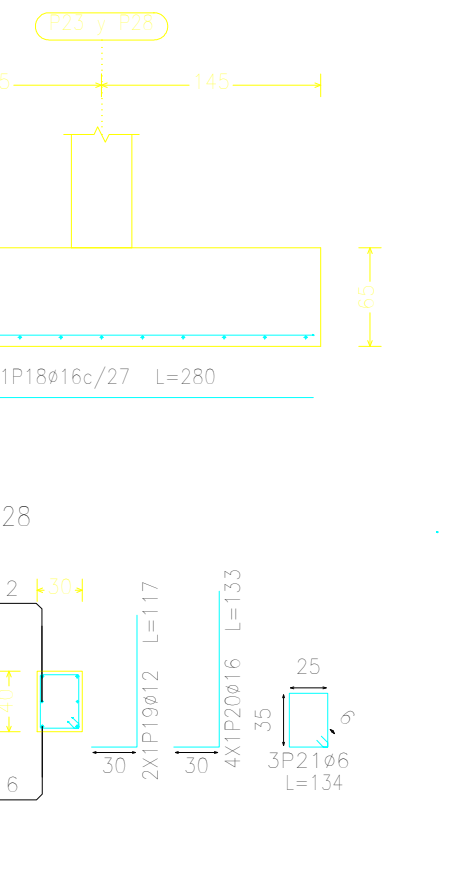
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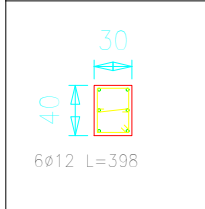
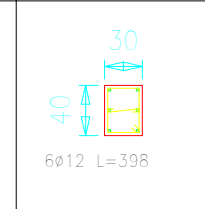
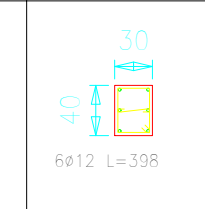
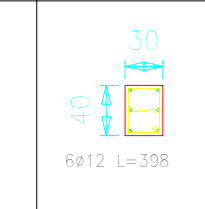
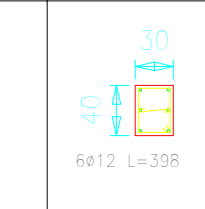
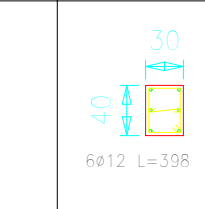
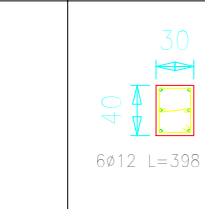
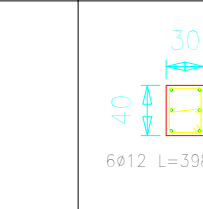
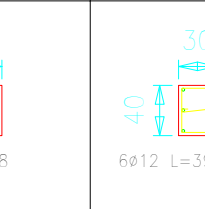
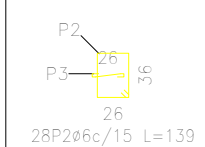
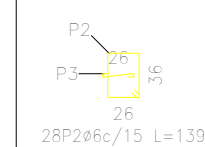
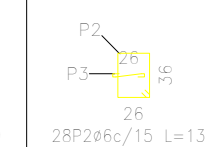
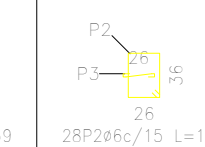
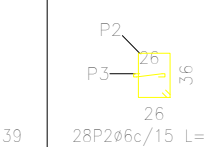
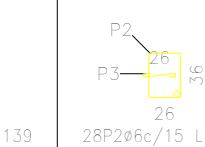
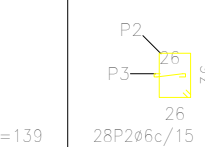
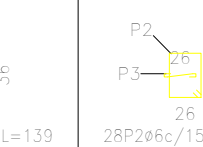
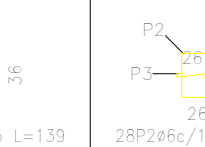
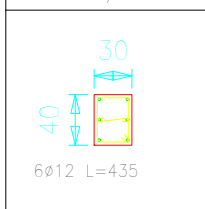
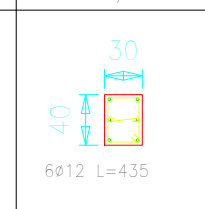
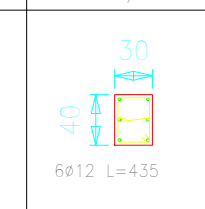
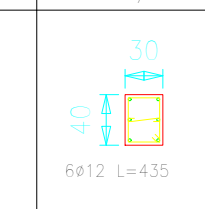
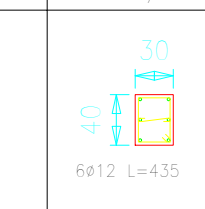
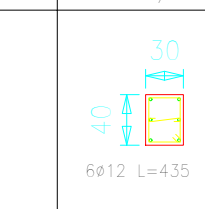
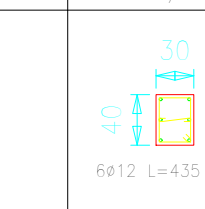
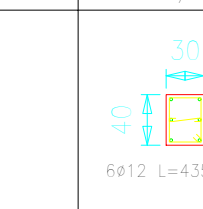
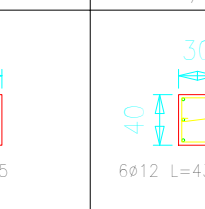
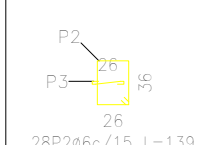
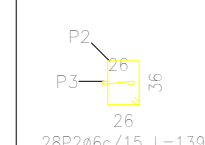
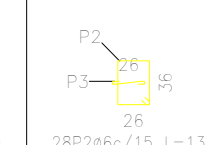
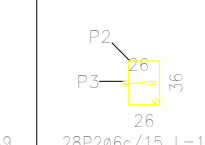
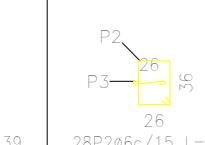
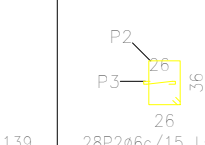
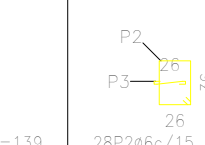
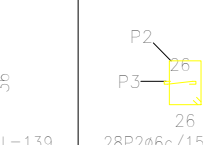
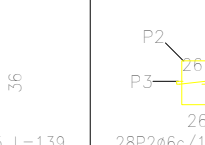
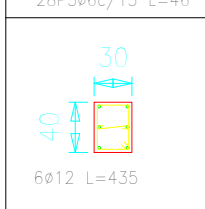
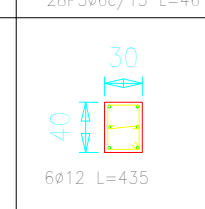
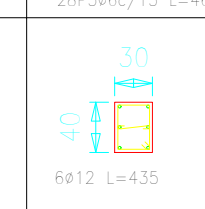
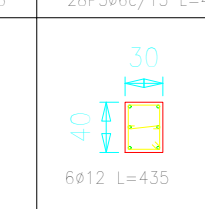
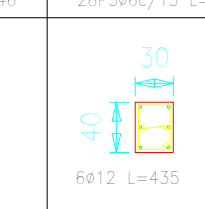
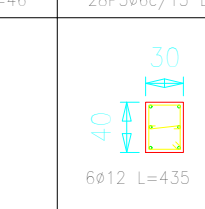
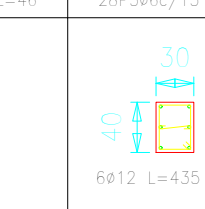
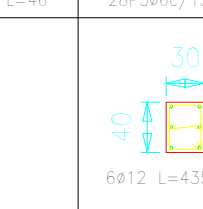
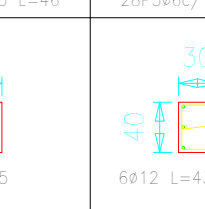
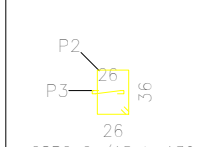
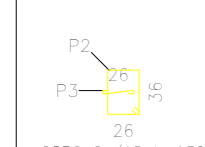
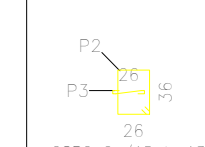
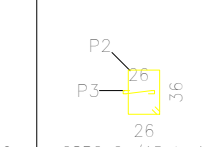
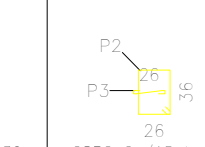
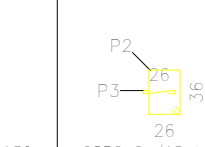
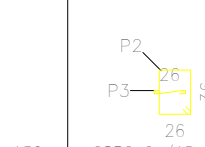
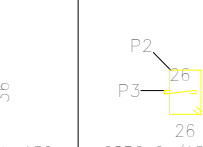
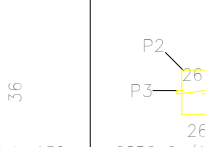
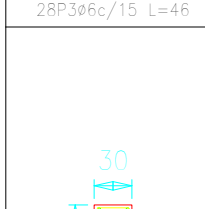
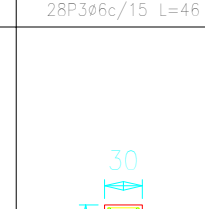
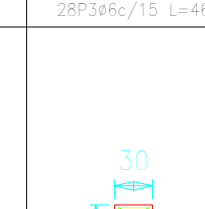
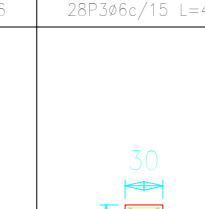
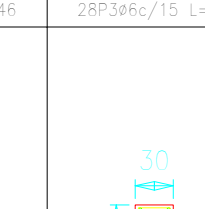
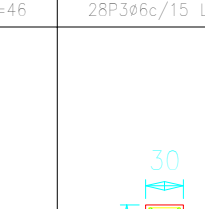
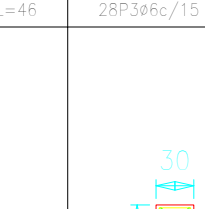
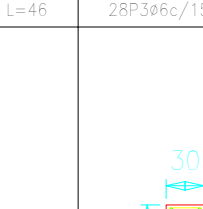
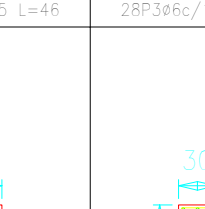
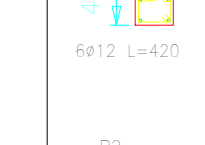
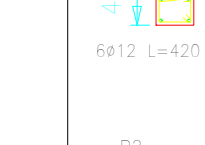


P23 y P28



P23 y P28



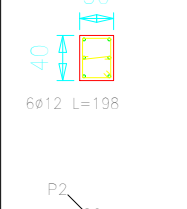
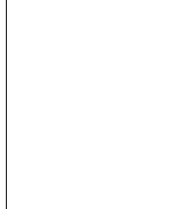
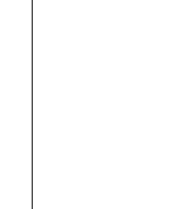
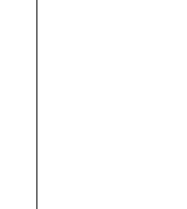
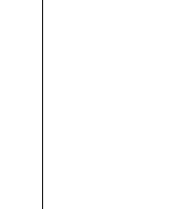
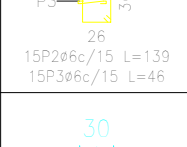
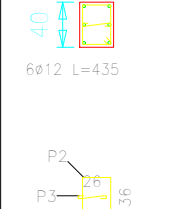
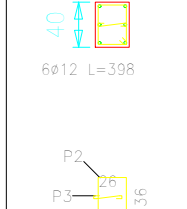
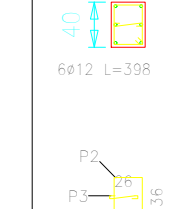
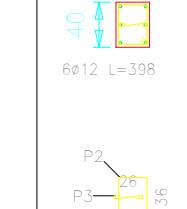
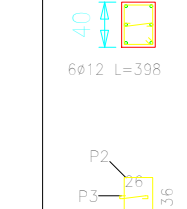
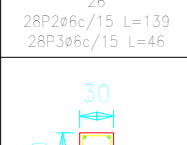
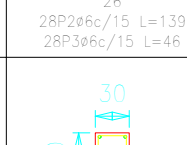
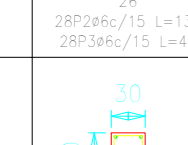
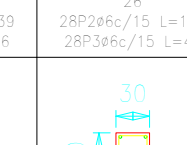
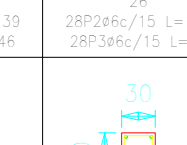
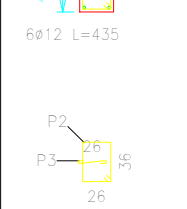
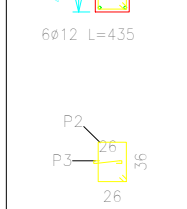
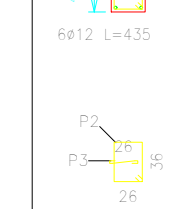
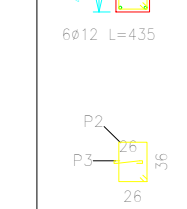
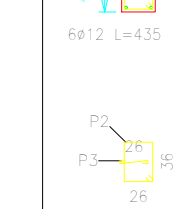
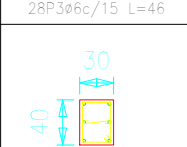
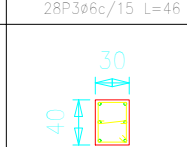
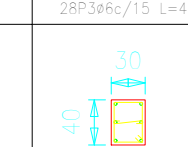
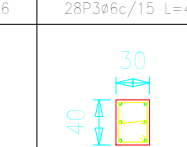
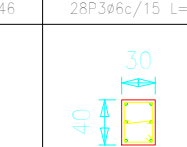
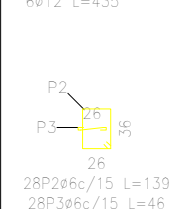
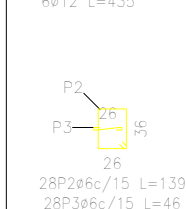
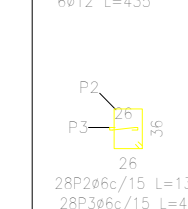
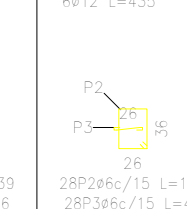
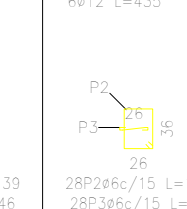
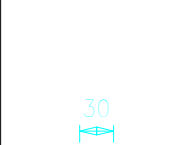
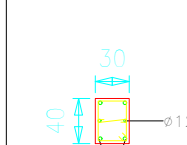
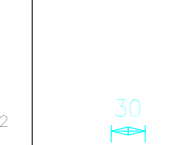
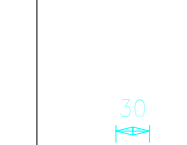
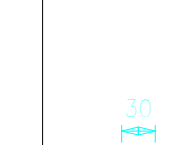
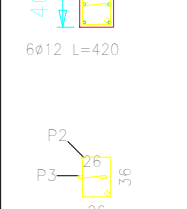
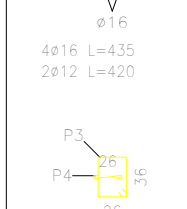
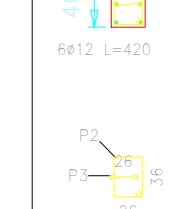
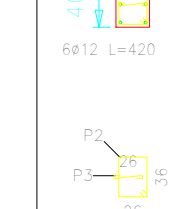
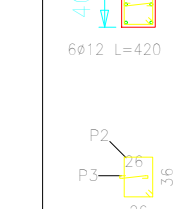
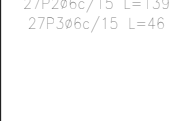
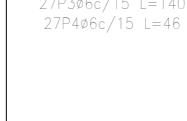
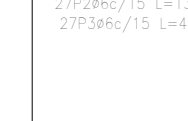
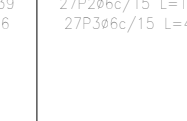
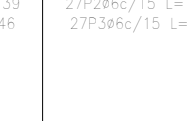
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6ø12 L=398	6ø12 L=398	6ø12 L=398	6ø12 L=398	6ø12 L=398	6ø12 L=398	6ø12 L=398	6ø12 L=398	6ø12 L=398
								
28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46
								
6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435
								
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AZOTEA

3ER PISO

2DO PISO

1ER PISO

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6ø12 L=435	6ø12 L=398	6ø12 L=398	6ø12 L=398	6ø12 L=398
				
28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46
				
6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435
				
28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46	28P2ø6c/15 L=139 28P3ø6c/15 L=46
				
6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435	6ø12 L=435
				
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6ø12 L=420	6ø12 L=435 2ø12 L=420	6ø12 L=420	6ø12 L=420	6ø12 L=420
				
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TANQUE

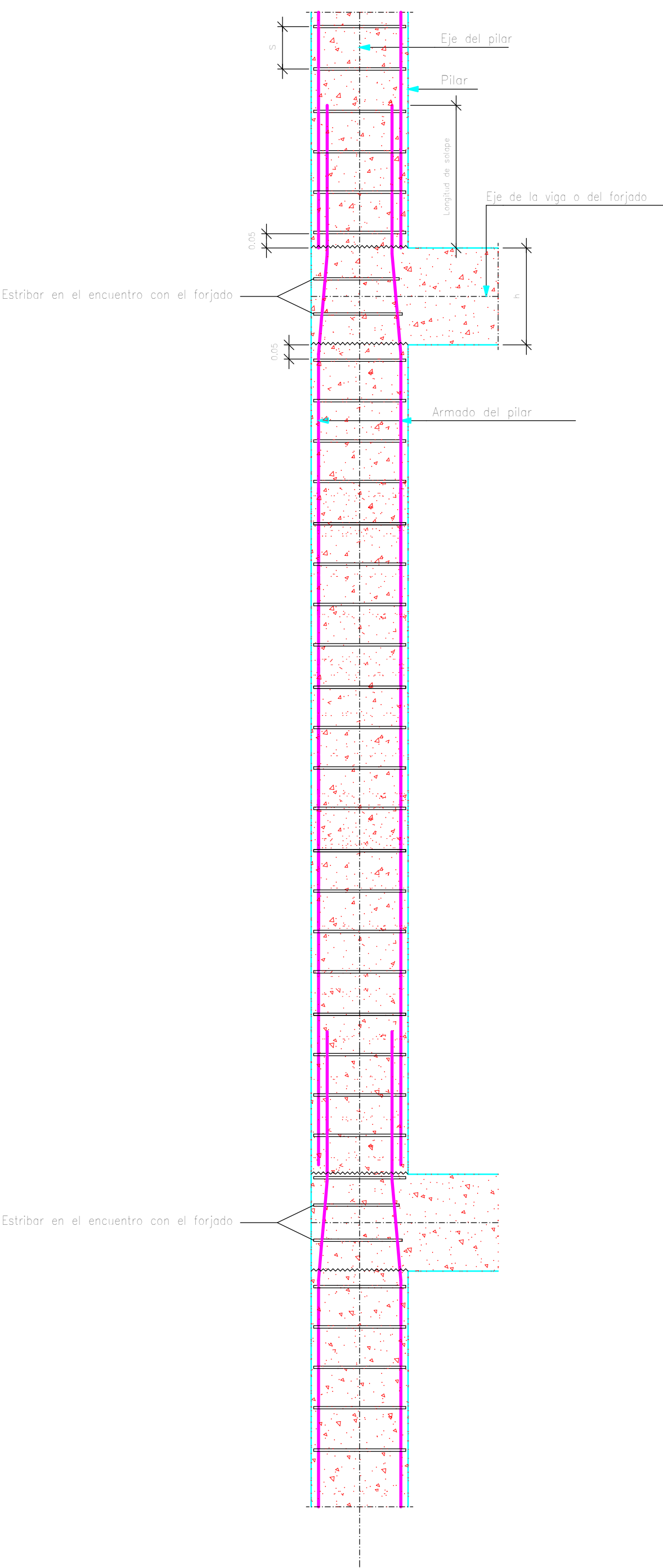
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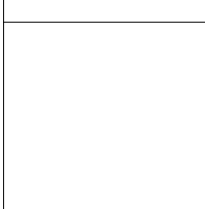
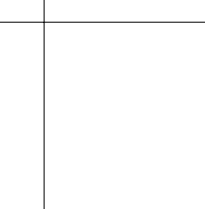
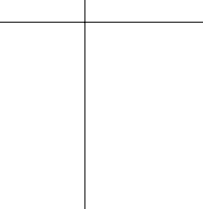
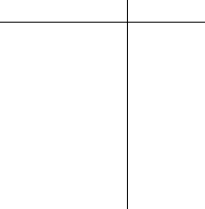
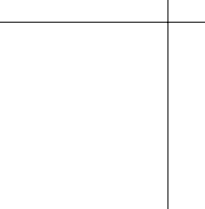
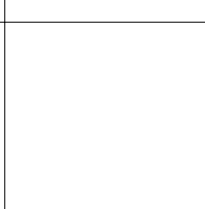
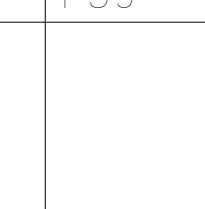
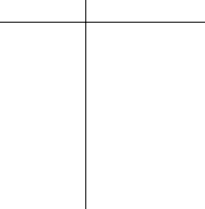
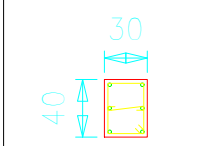
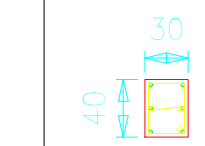
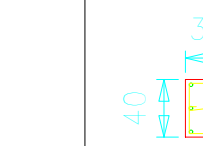
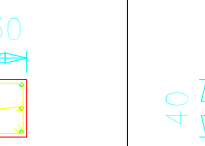
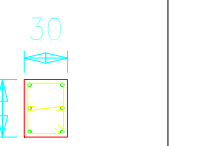
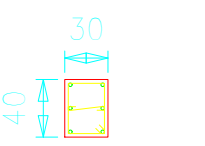
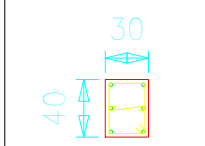
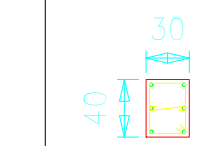
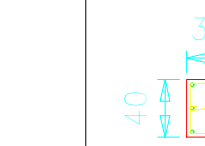
3ER PISO

2DO PISO

1ER PISO

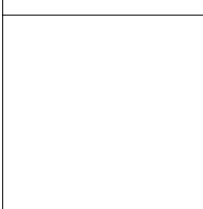
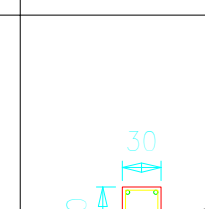
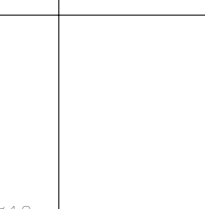
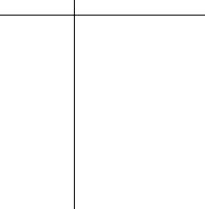
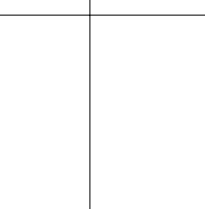
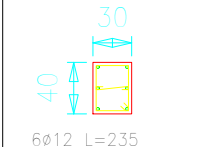
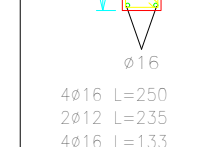
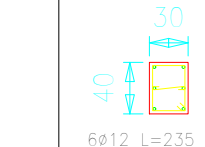
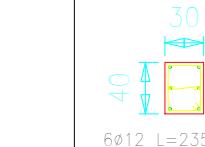
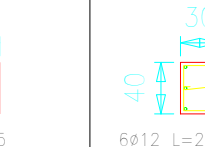
Detalle de estribado de pilares



P1=P26	P3=P7 P13=P18 P22=P27	P4=P12 P57	P5=P11	P6=P35 P45	P8=P21 P24=P29	P9=P17 P32=P34 P36=P38 P39	P10	P14=P16 P19=P25
								
6ø12 L=235 6ø12 L=88	6ø12 L=235 6ø12 L=108	6ø12 L=235 6ø12 L=83	6ø12 L=235 6ø12 L=103	6ø12 L=235 6ø12 L=83	6ø12 L=235 6ø12 L=112	6ø12 L=235 6ø12 L=93	6ø12 L=235 6ø12 L=118	6ø12 L=235 6ø12 L=117
								
15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46

PLANTA BAJA

Cimentación

P15=P20	P23=P28	P30=P44	P31=P33	P56
				
6ø12 L=235 6ø12 L=108	6ø12 L=235 6ø12 L=108	6ø12 L=235 6ø12 L=133	6ø12 L=235 6ø12 L=98	6ø12 L=235 6ø12 L=98
				
15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46	15P3ø6c/15 L=139 15P4ø6c/15 L=46

PLANTA BAJA

Cimentación

Cuadro de pilares
Hormigón: H-21 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Resumen Acero Forjados 1 a 6 Pilares		Long. total (m)	Peso+10% (kg)	Total
AH-500CN	ø6	9613.4	2347	
	ø12	5012.2	4895	
	ø16	65.4	114	7356



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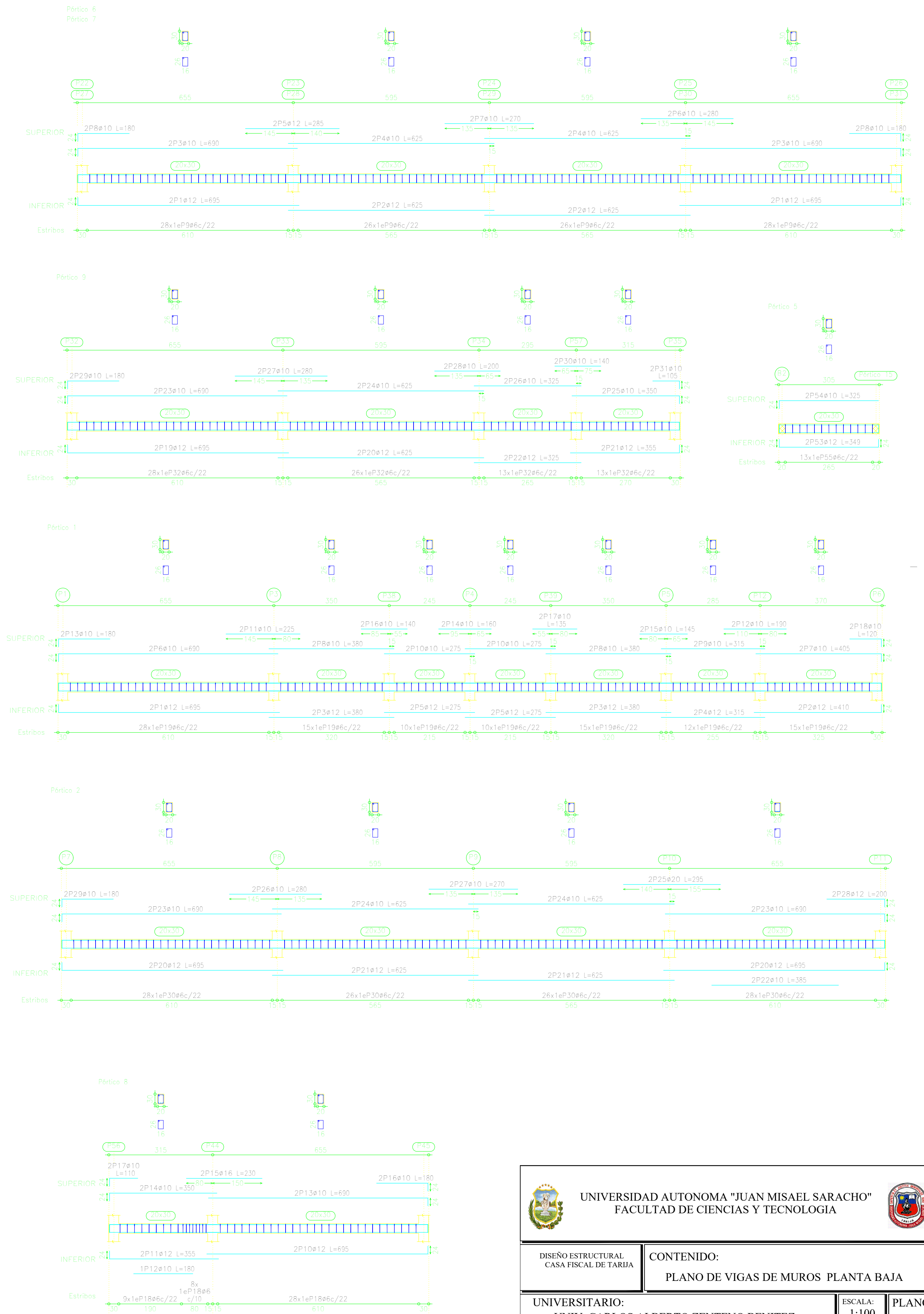
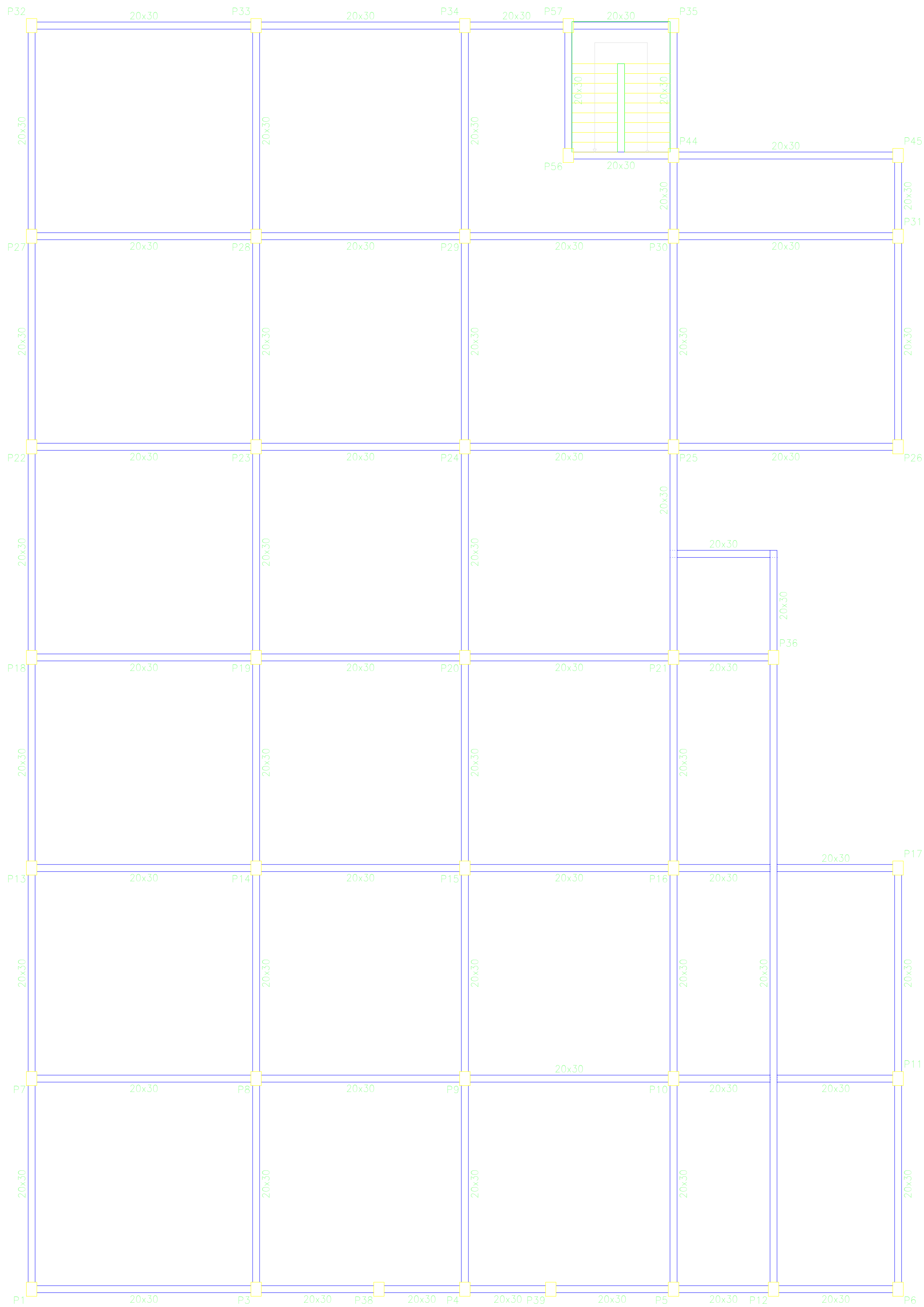
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ESCALA:
1:100

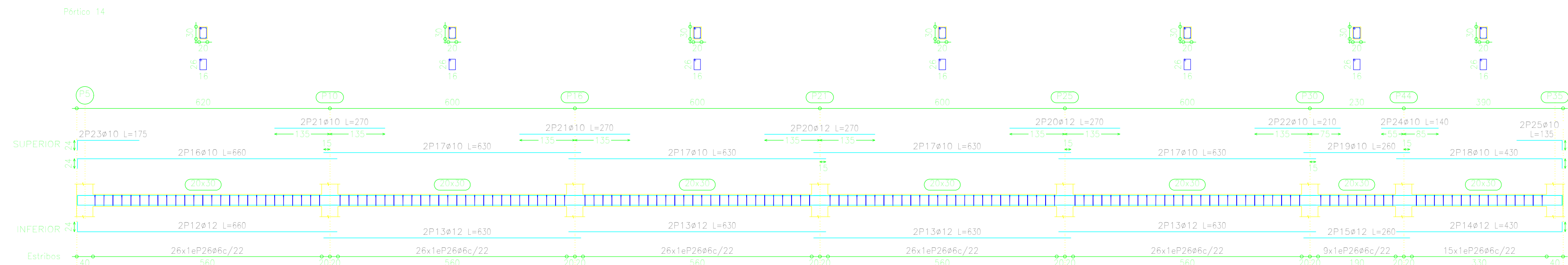
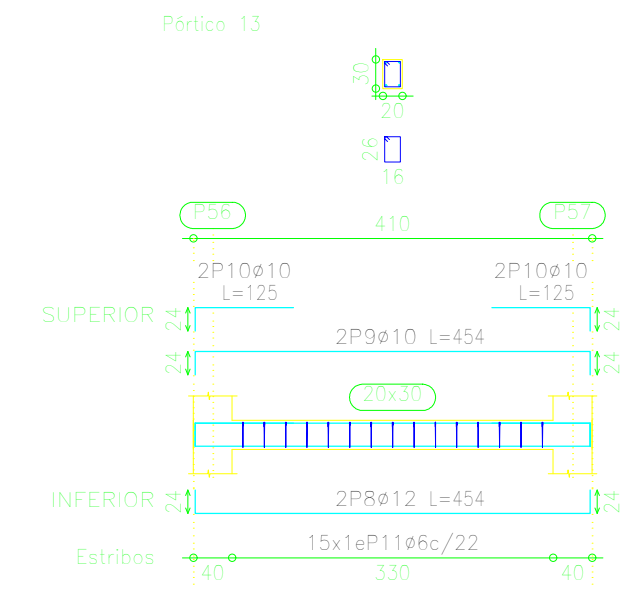
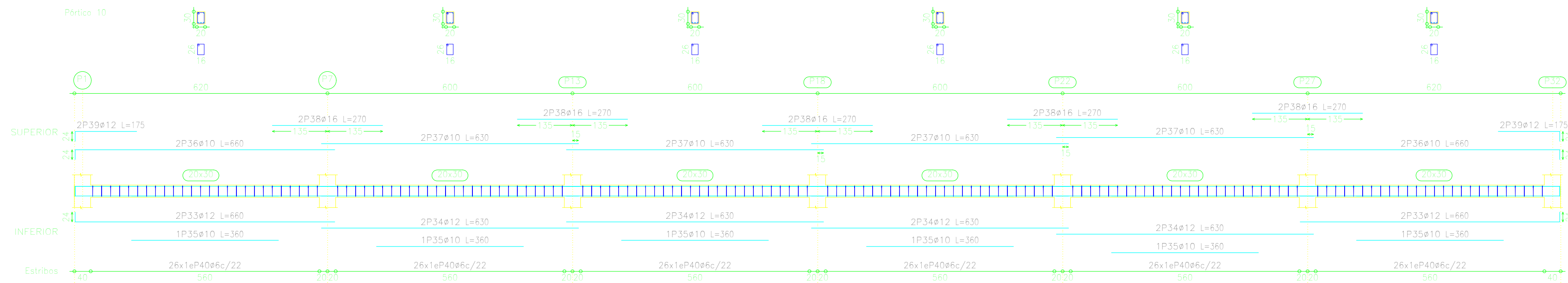
PLANO

VoBo

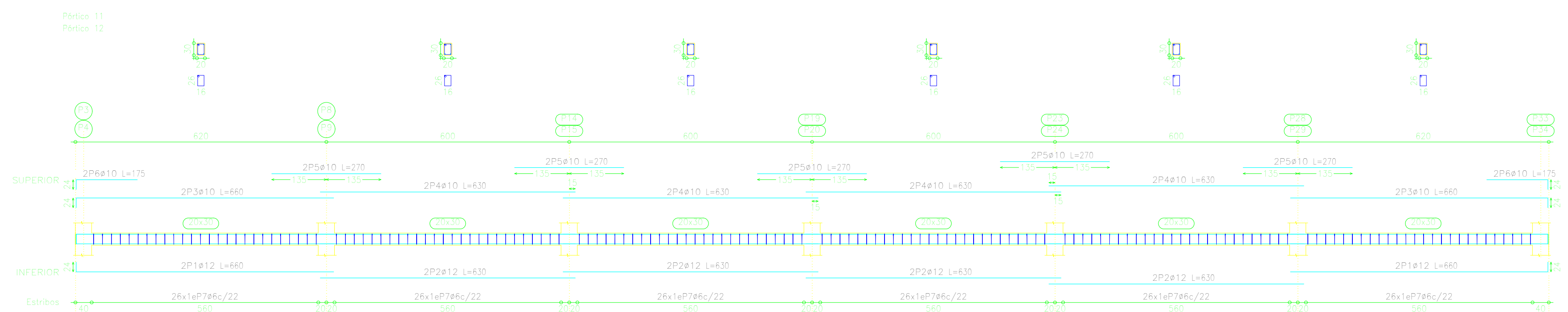
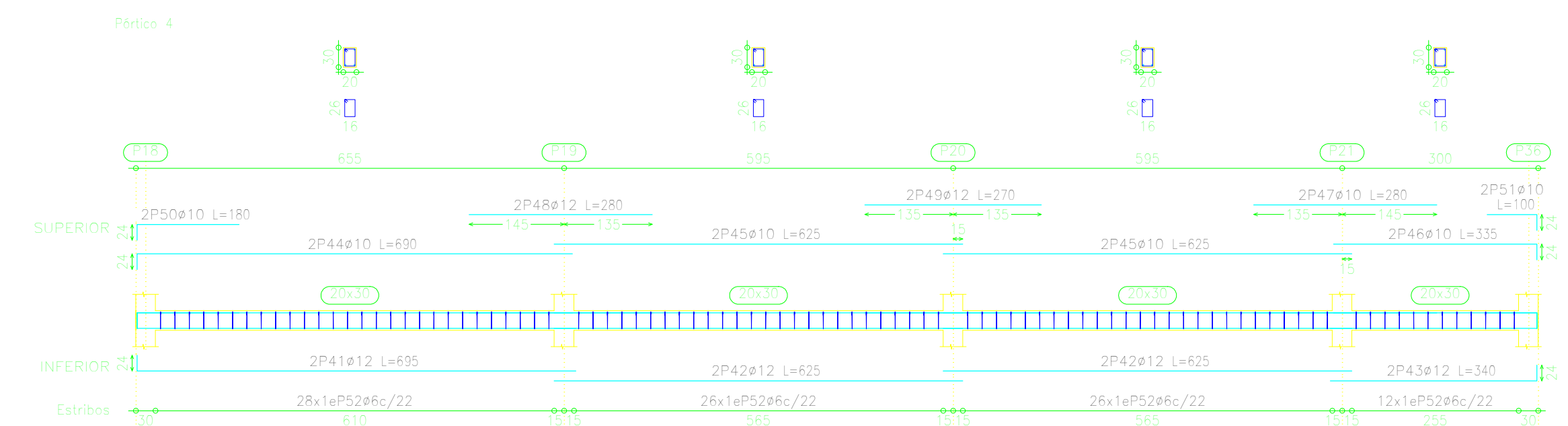
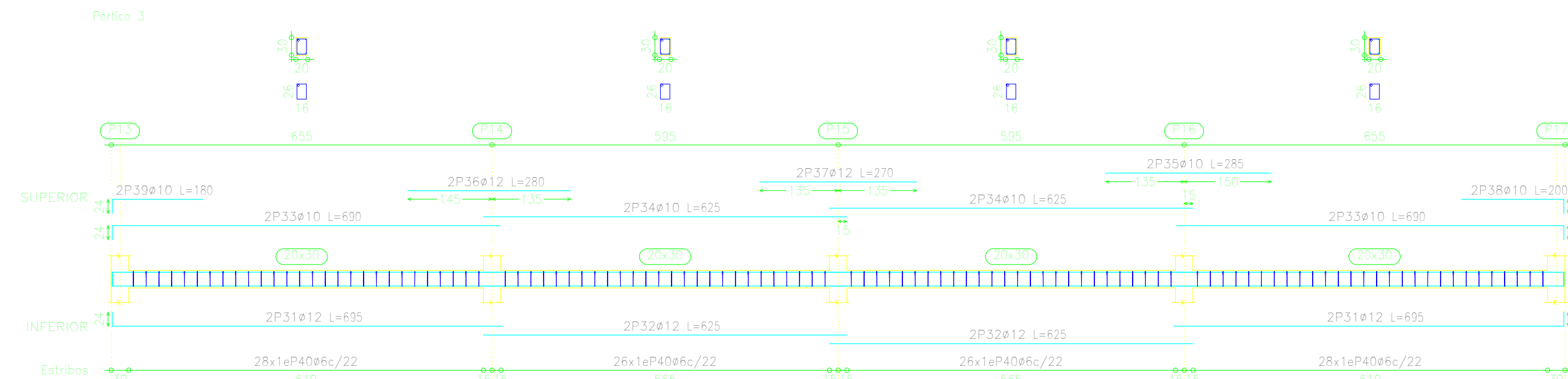
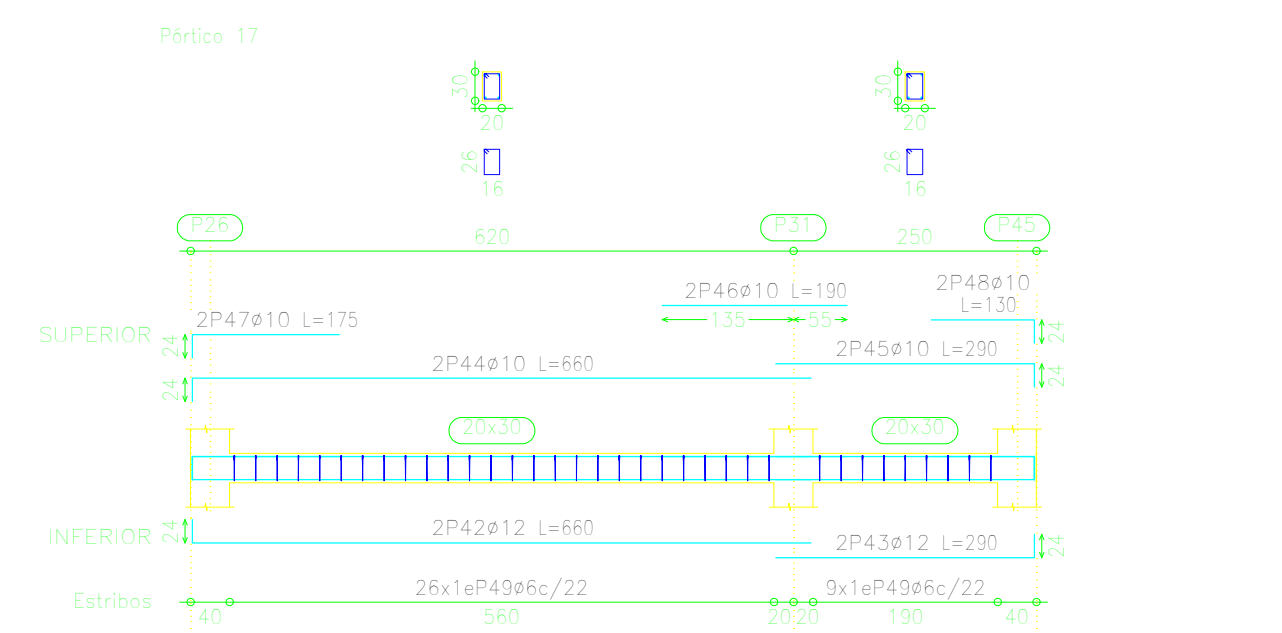
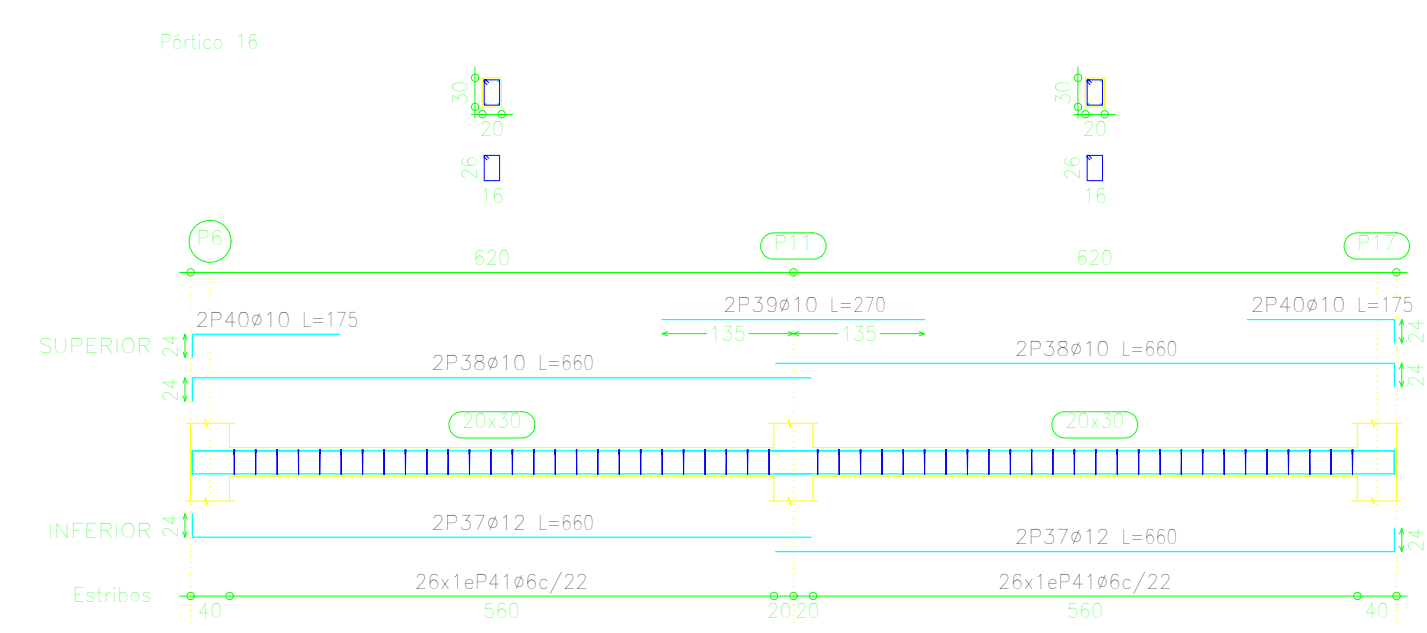
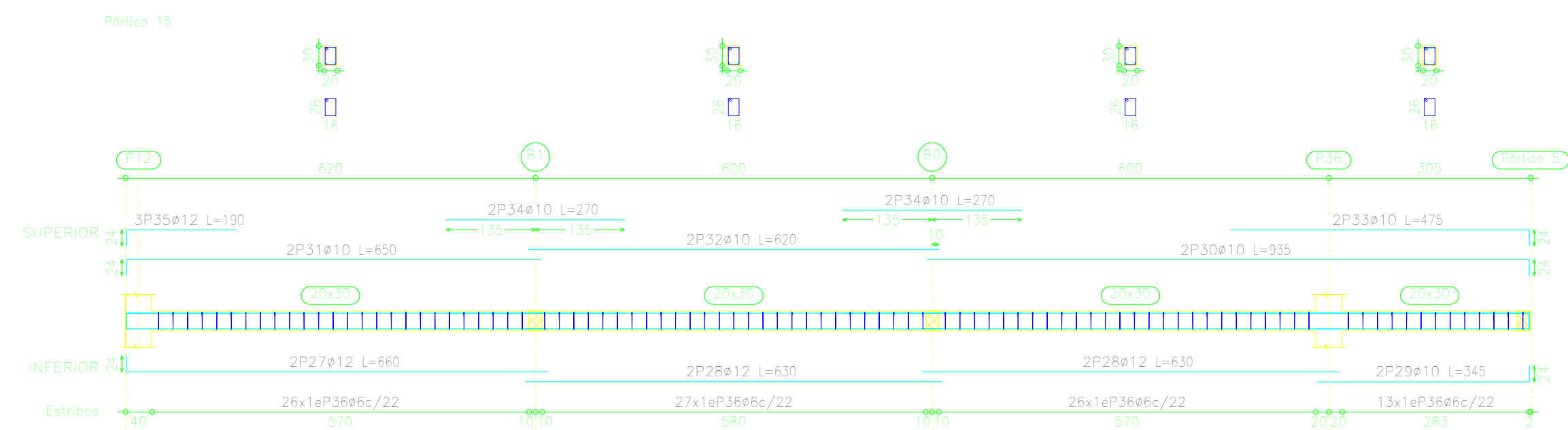
3/10

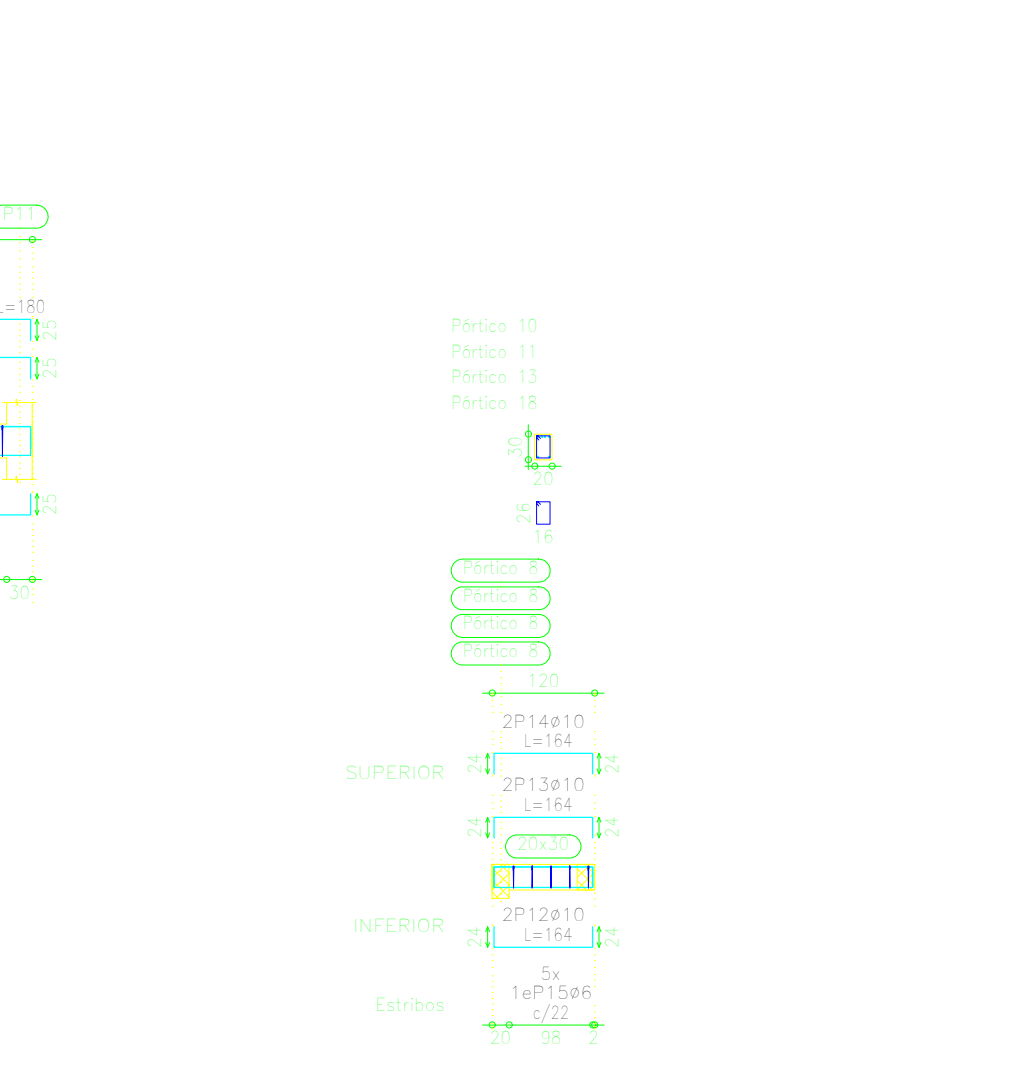
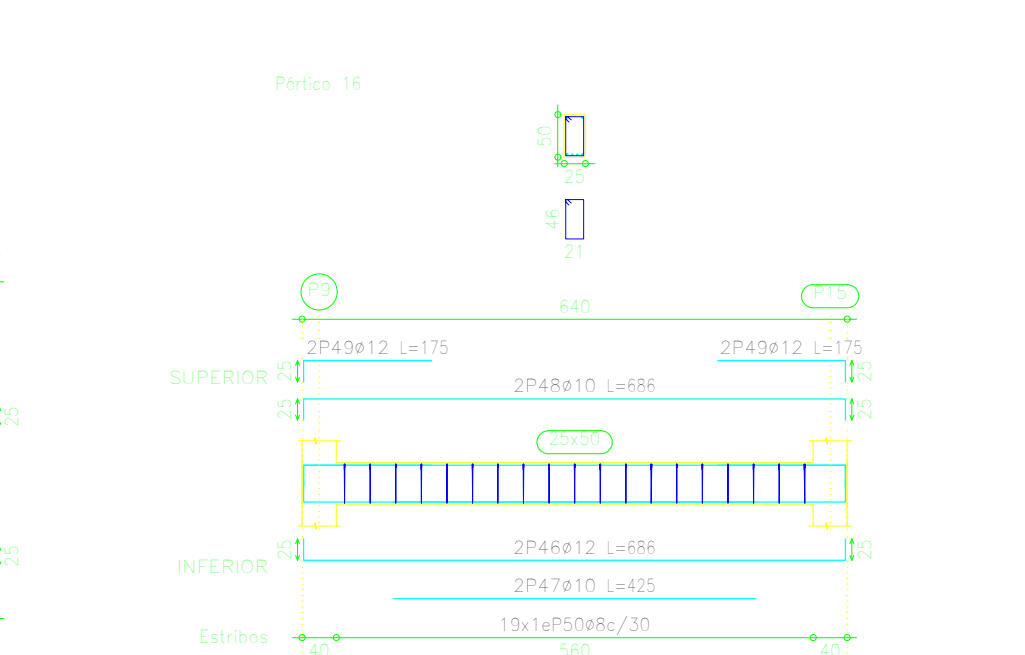
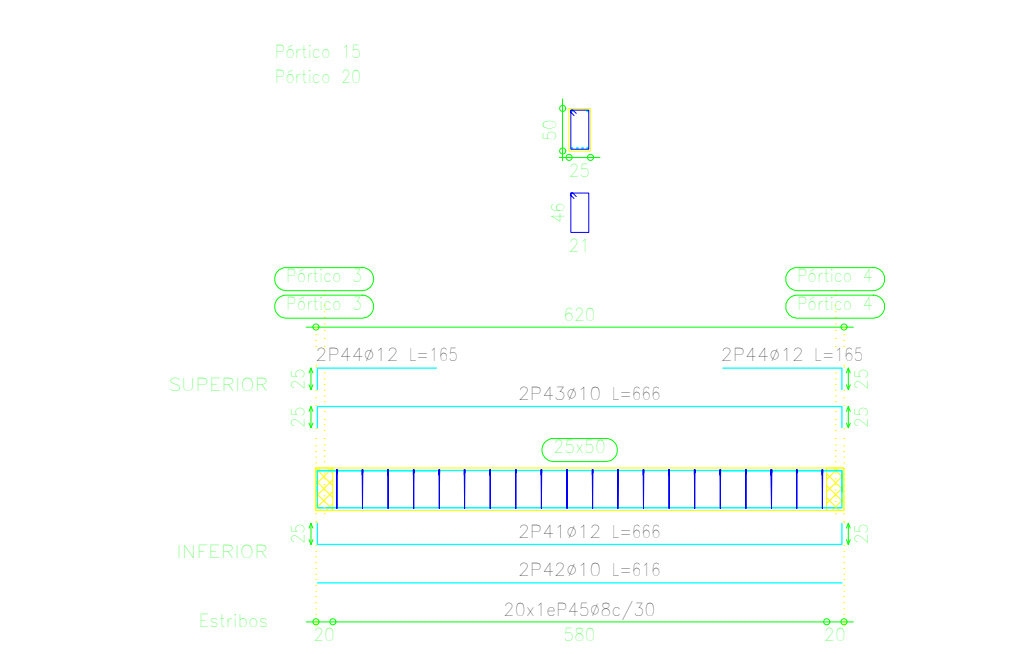
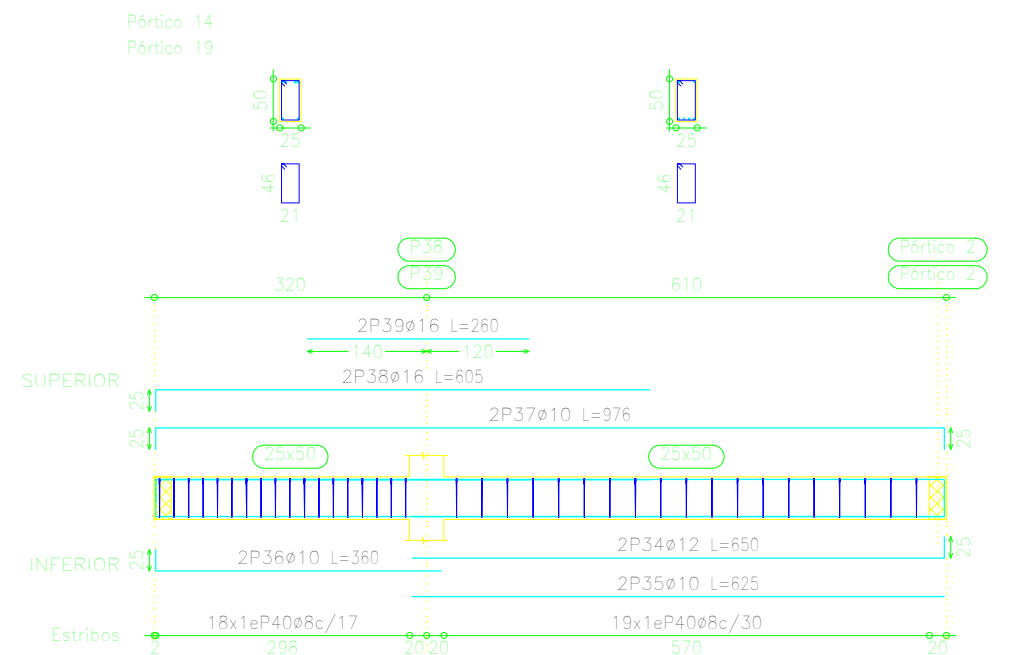
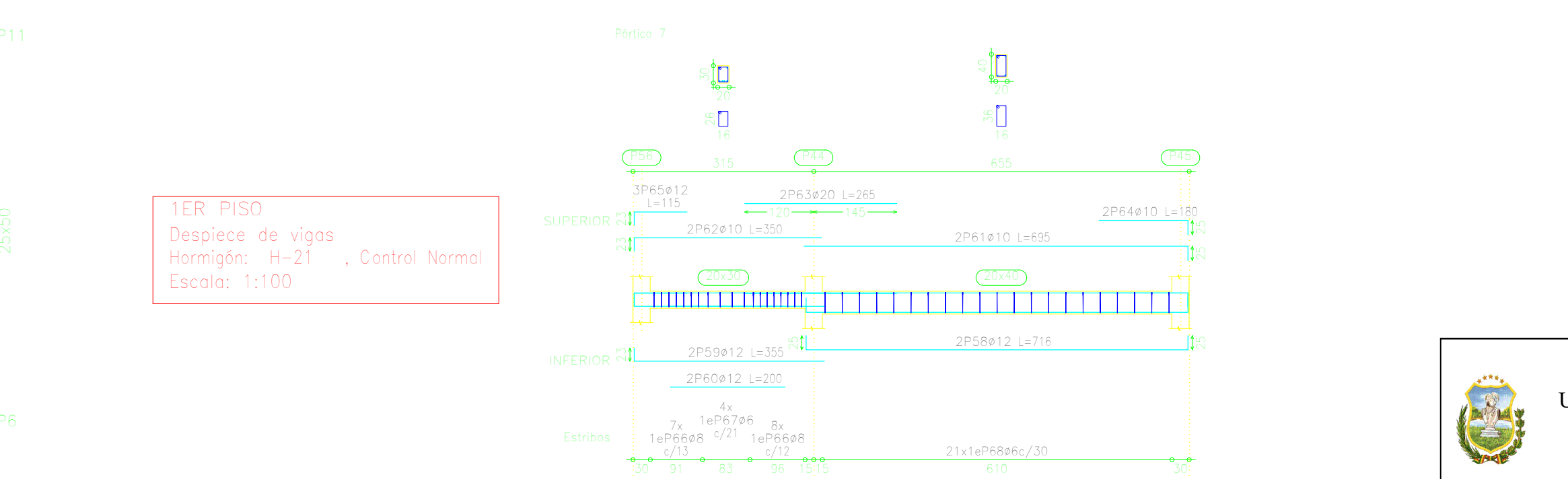
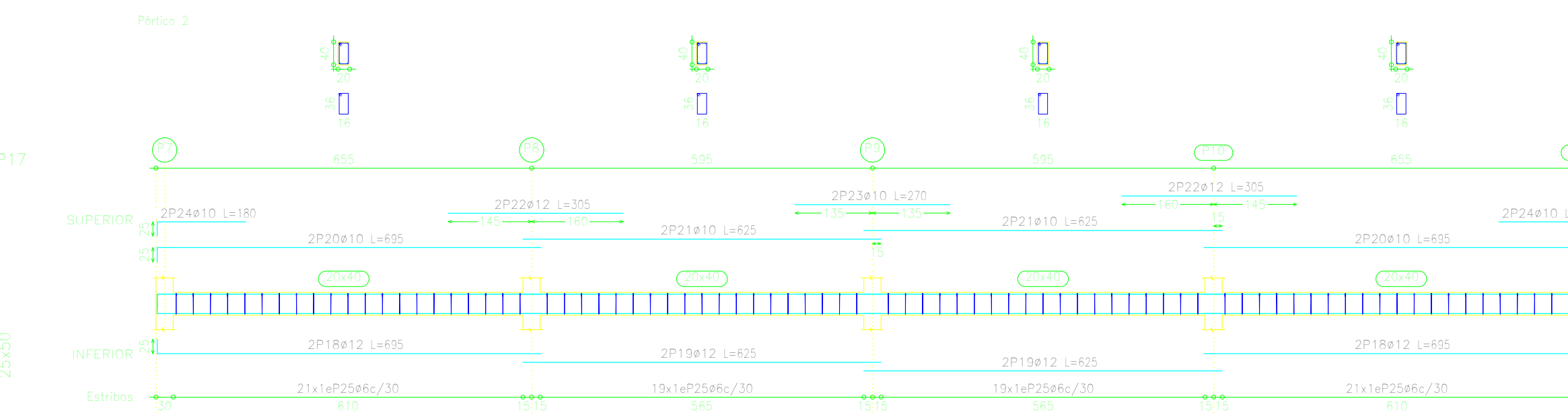
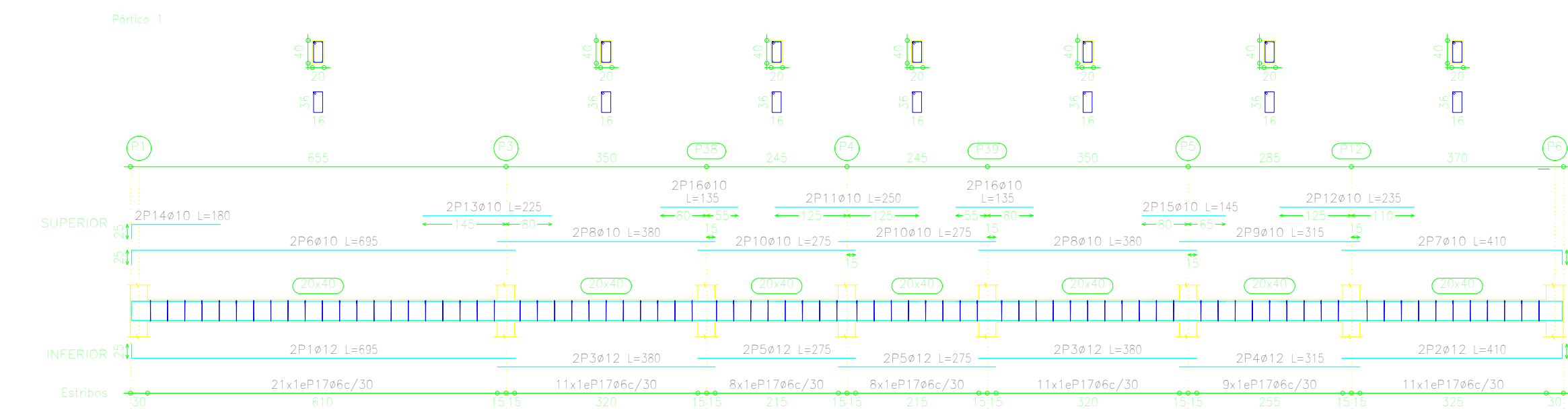
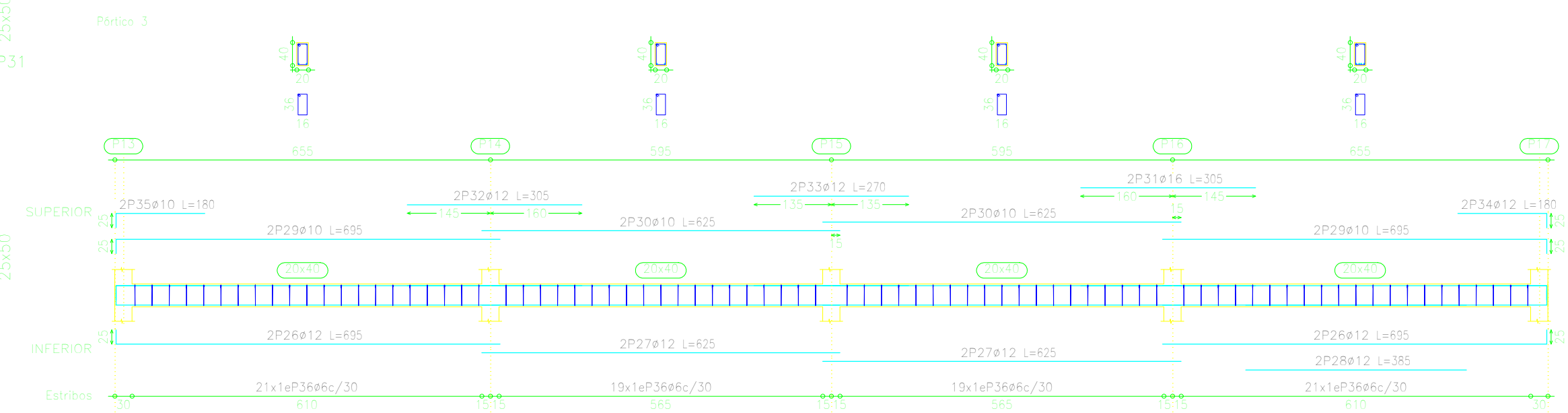
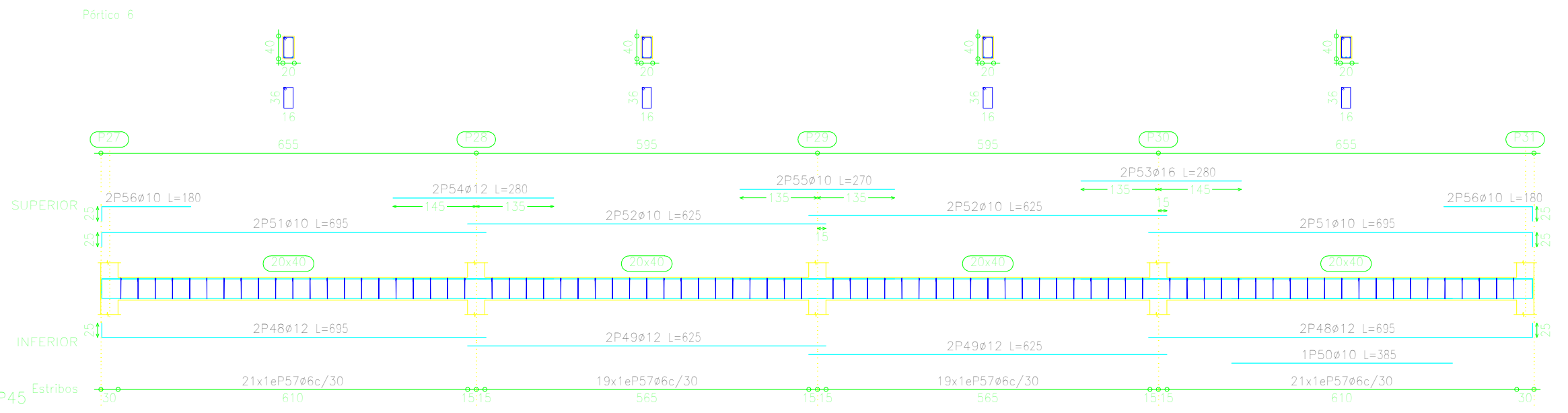
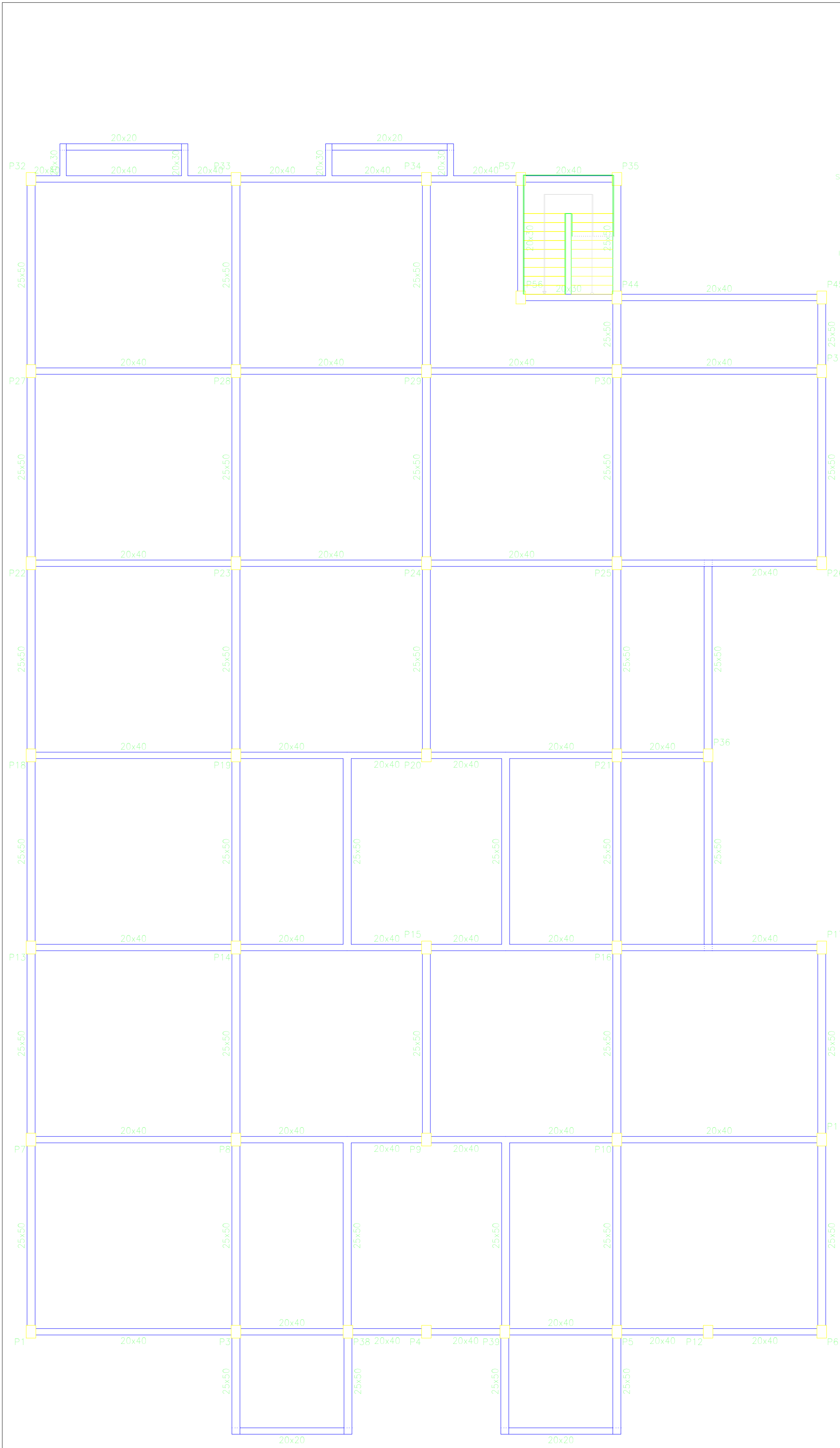


		UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO" FACULTAD DE CIENCIAS Y TECNOLOGIA		
DISEÑO ESTRUCTURAL CASA FISCAL DE TARIJA		CONTENIDO: PLANO DE VIGAS DE MUROS PLANTA BAJA		
UNIVERSITARIO: UNIV. CARLOS ALBERTO ZENTENO BENITEZ		ESCALA: 1:100	PLANO 4/10	
VoBo				



PLANTA BAJA
Despiece de vigas
Hormigón: H-21 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100





1ER PISO
Despiece de vigas
Hormigón: H-21, Control Normal
Escala: 1:100



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FACULTAD DE CIENCIAS Y TECNOLOGIA



DISEÑO ESTRUCTURAL
CASA FISCAL DE TARIJA

CONTENIDO:
PLANO DE VIGAS 1RO, 2DO, 3ER, 4TO PISO

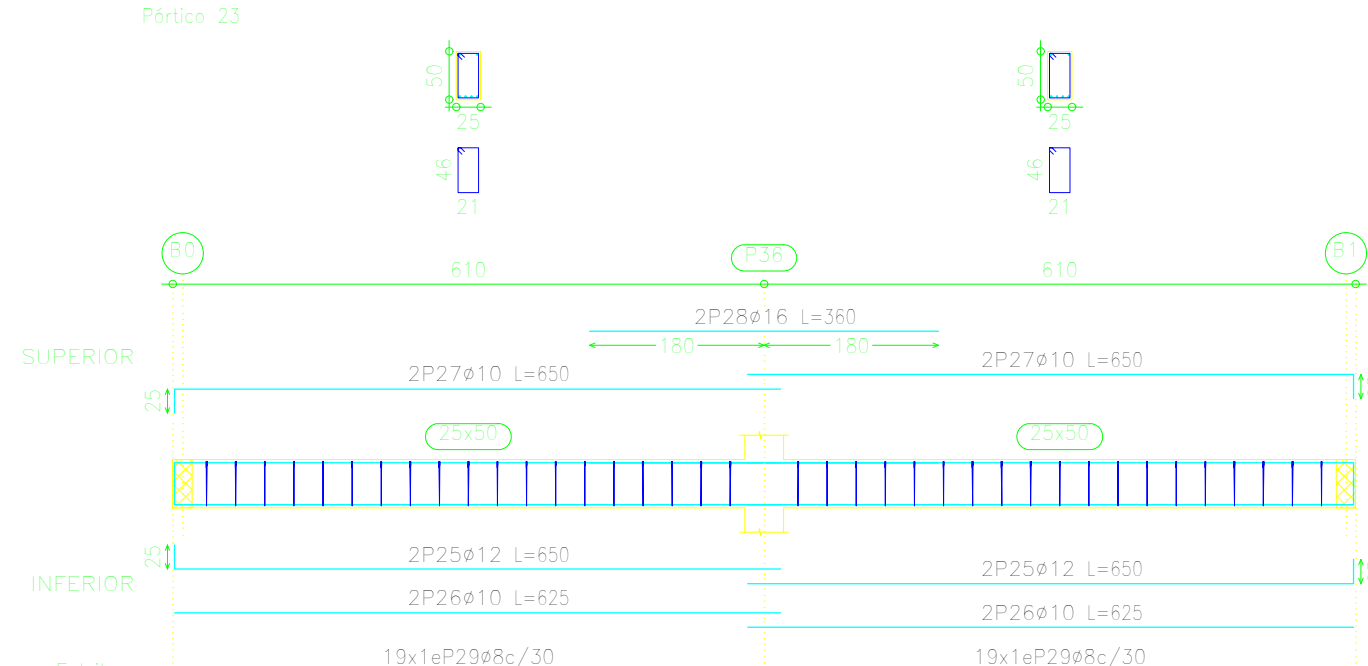
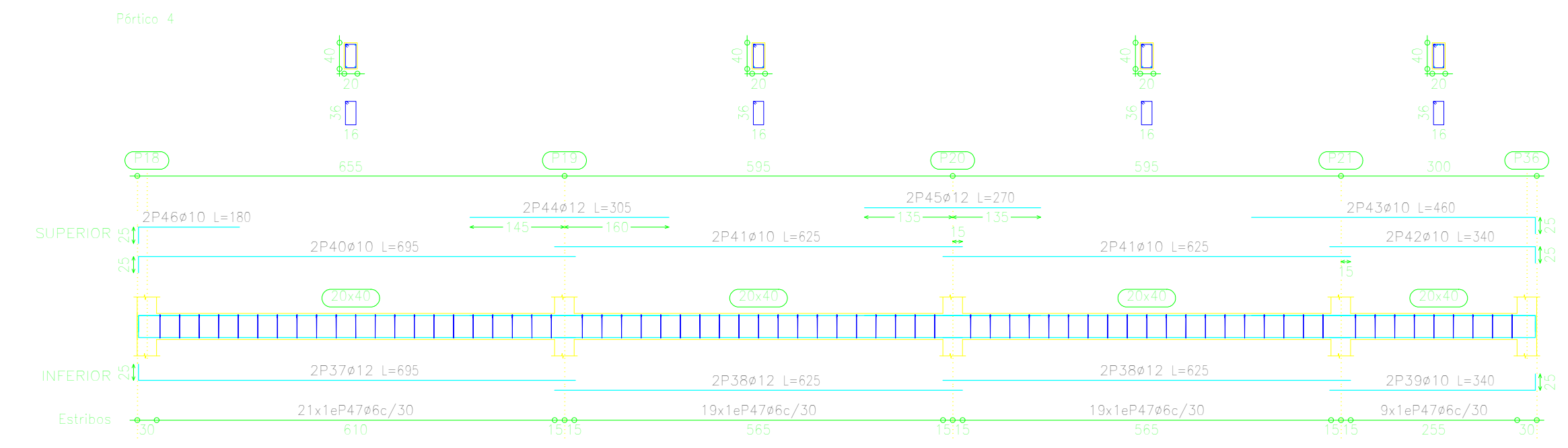
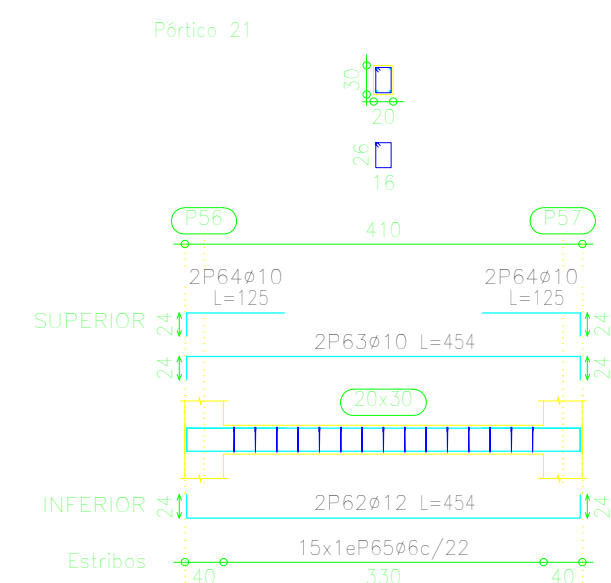
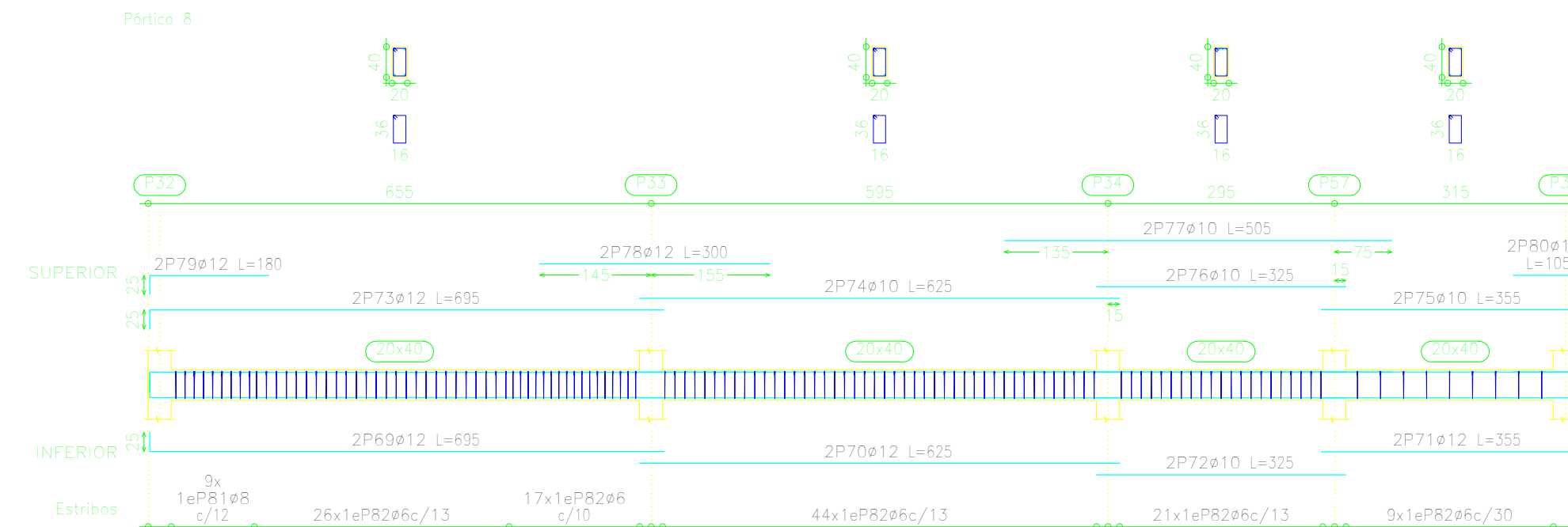
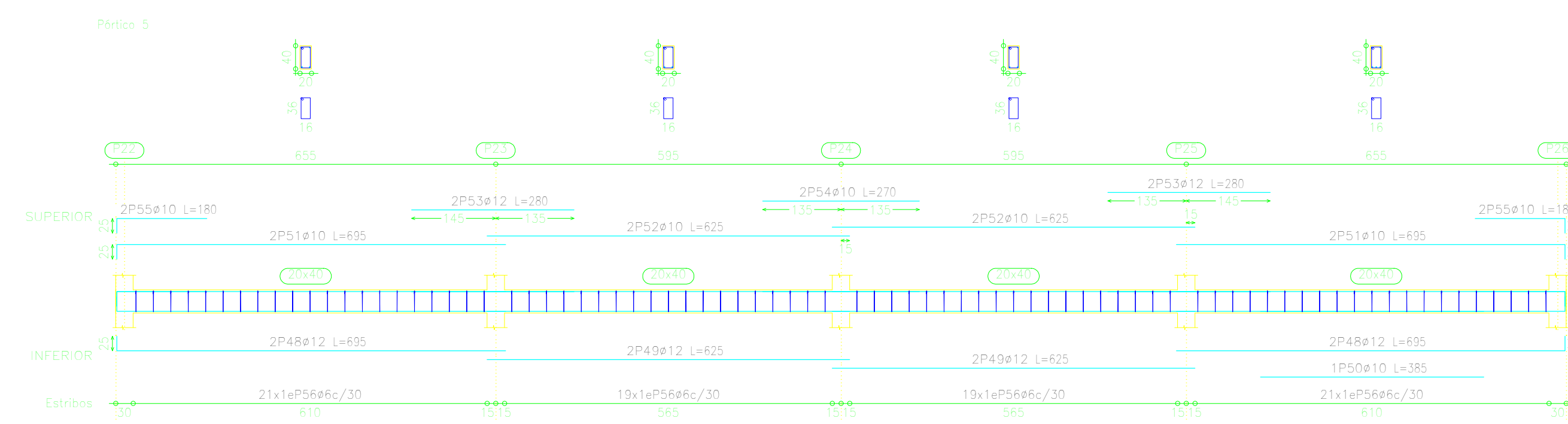
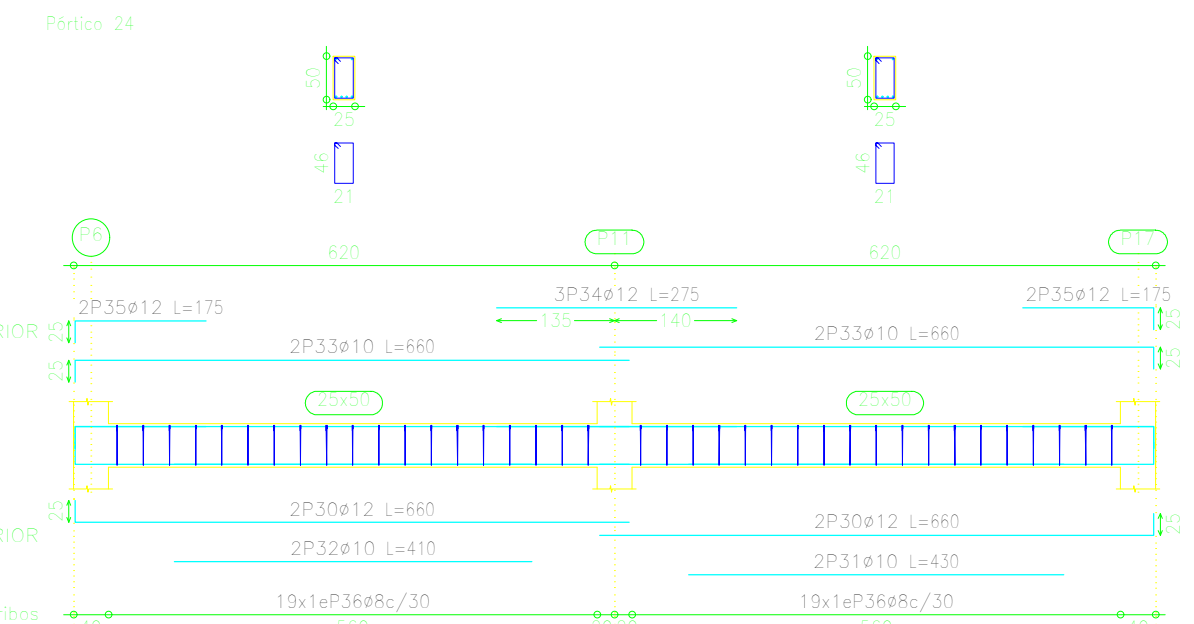
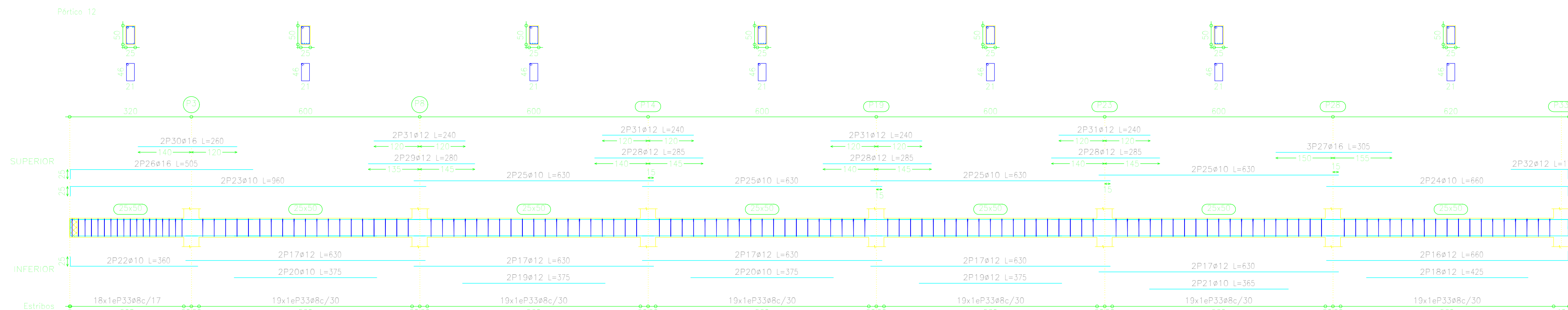
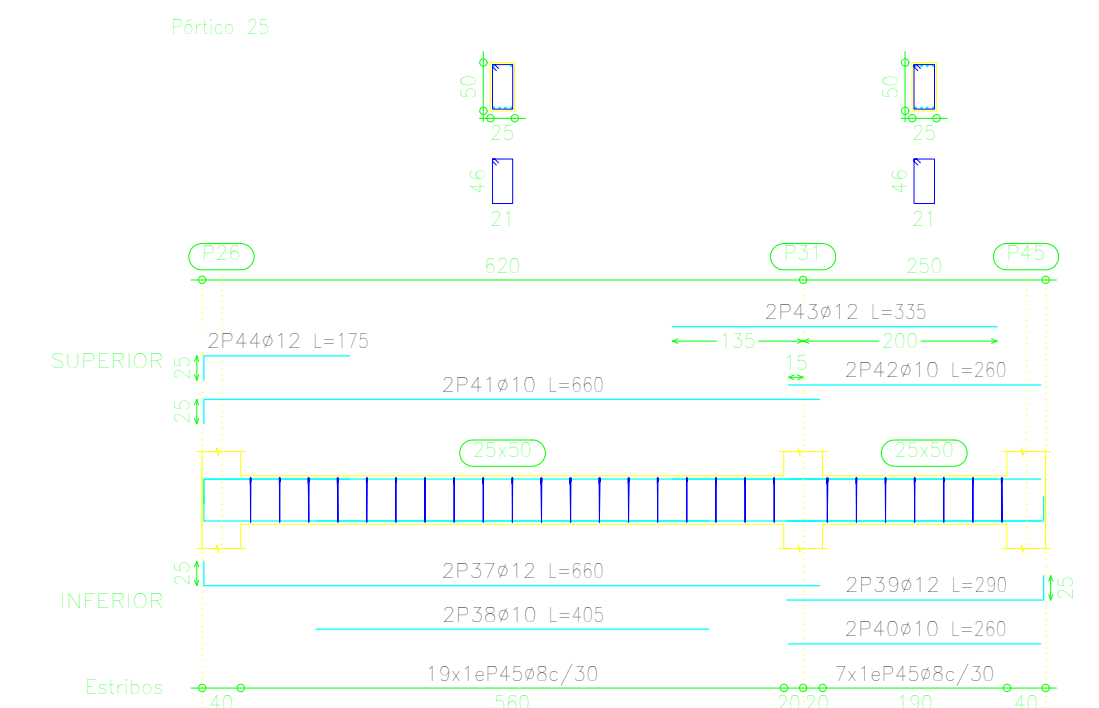
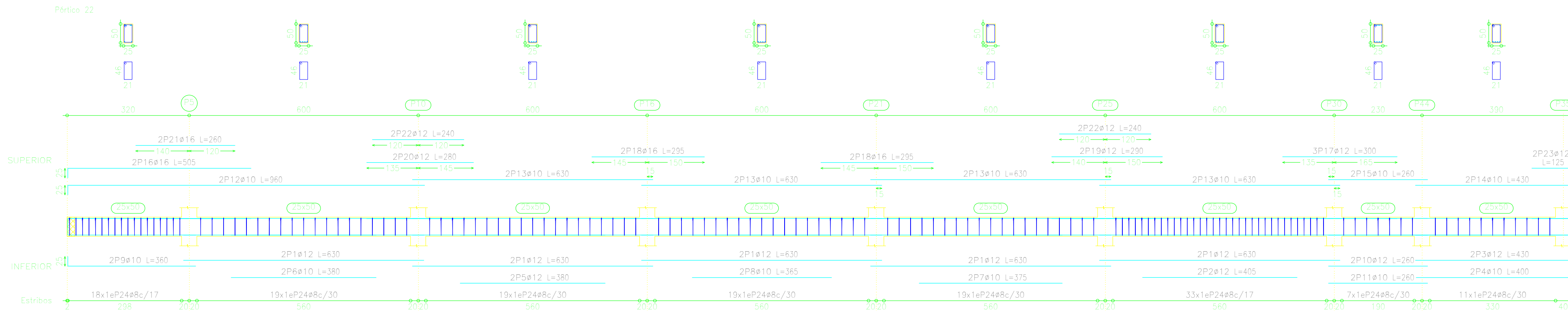
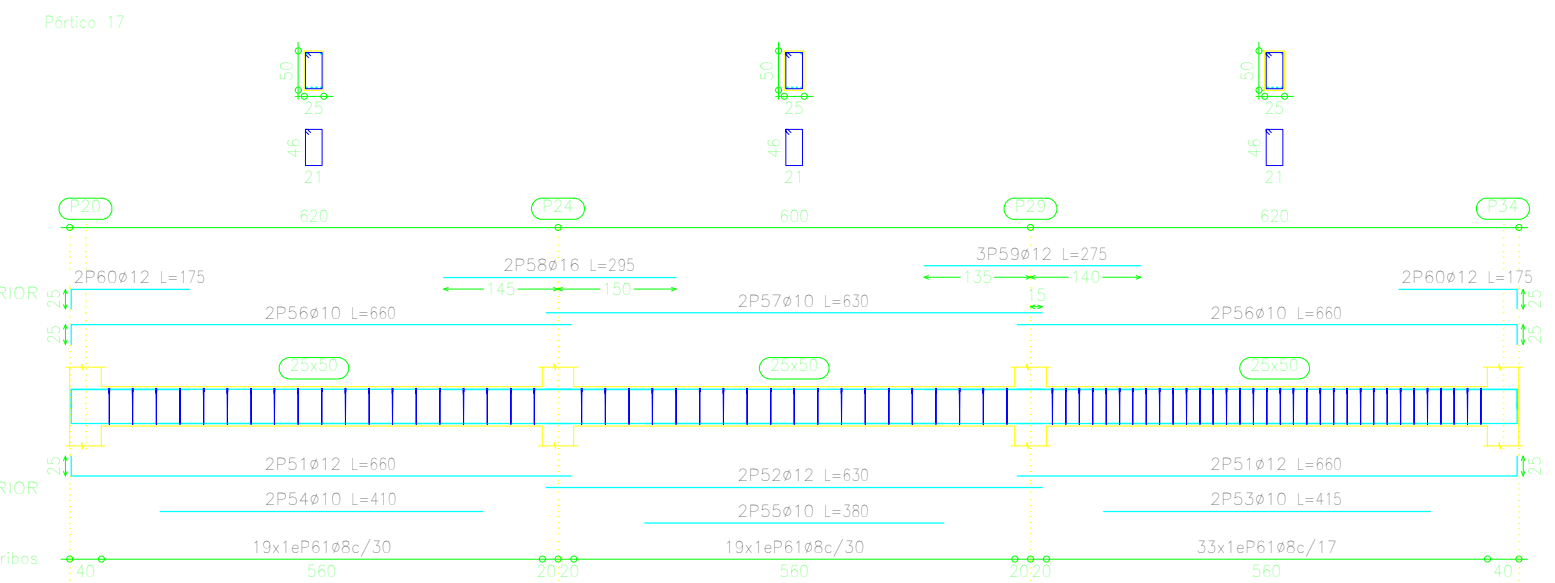
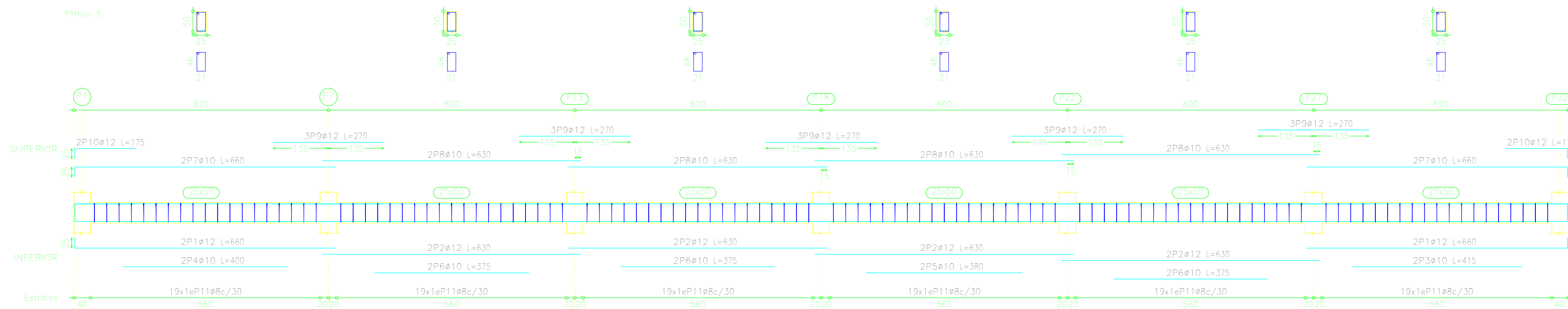
UNIVERSITARIO:
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ESCALA:
1:100

PLANO

VoBo

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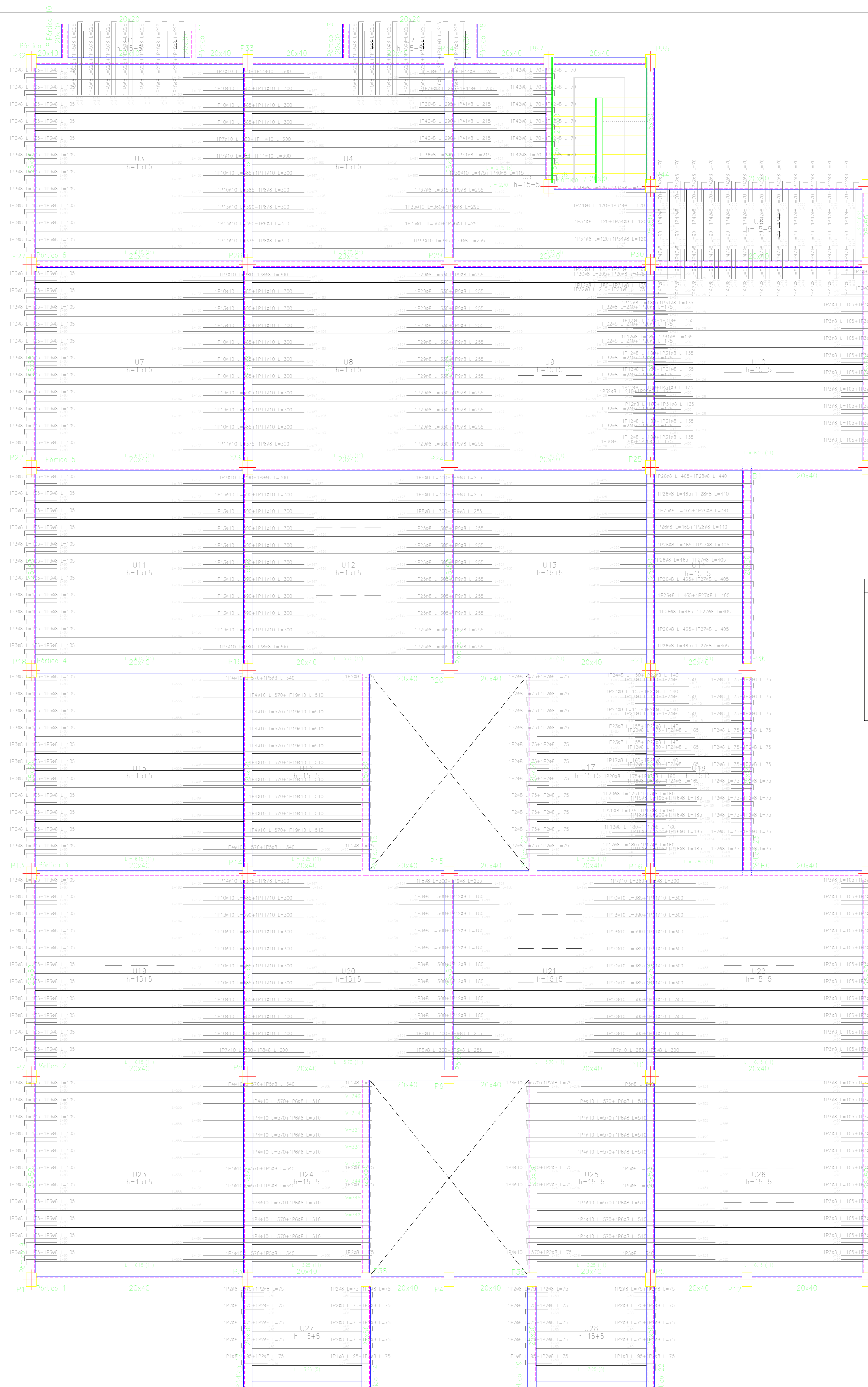


Tabla de características de forjados de viguetas (Grupo 2)

FORJADO DE VIGUETAS DE HORMIGÓN

Canto de bovedilla: 15 cm

Espesor capa compresión: 5 cm

Interje: 50 cm

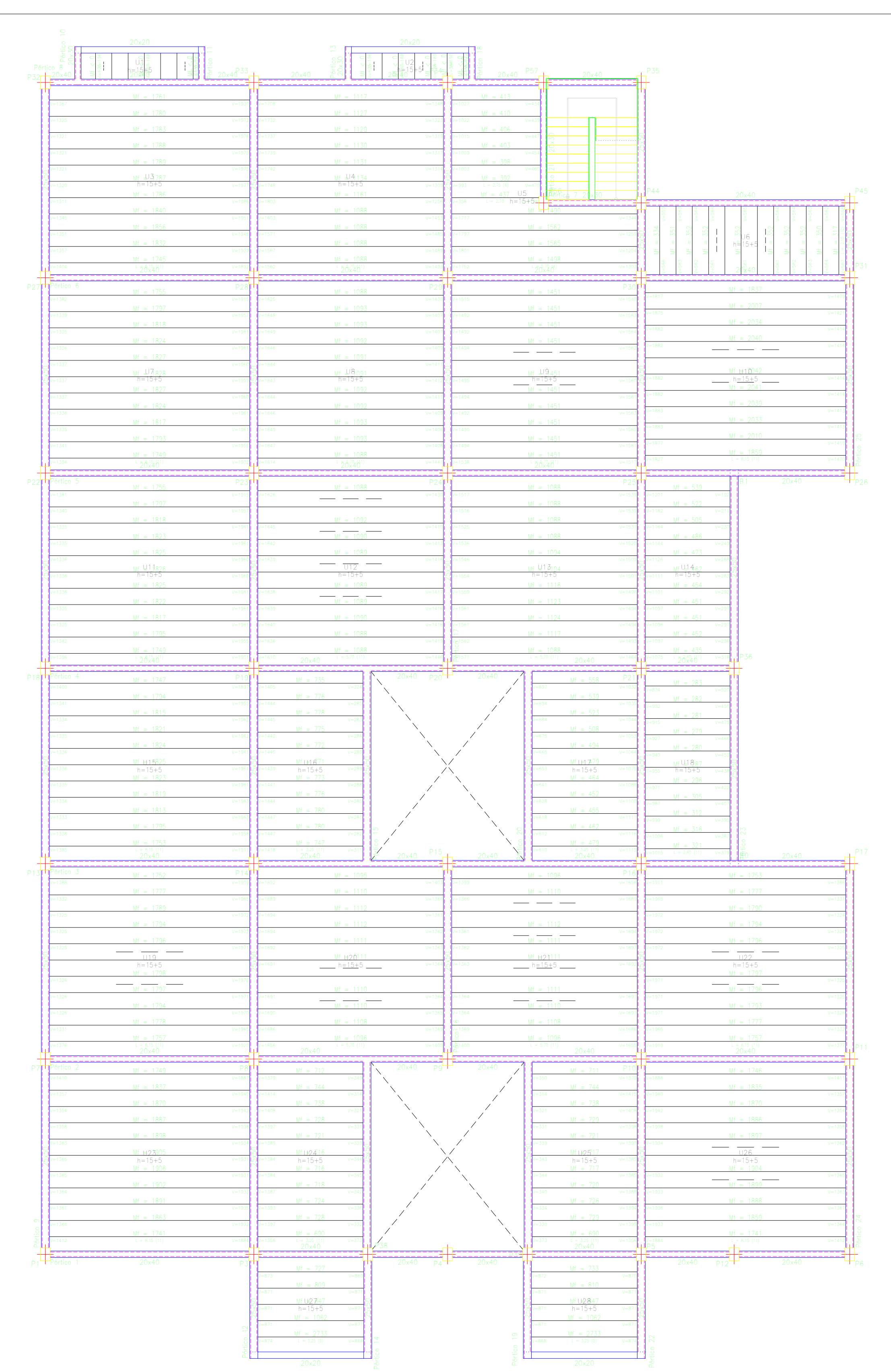
Bovedilla: De poliestireno

Ancho del nervio: 12 cm

Volumen de hormigón: 0.07 m³/m²

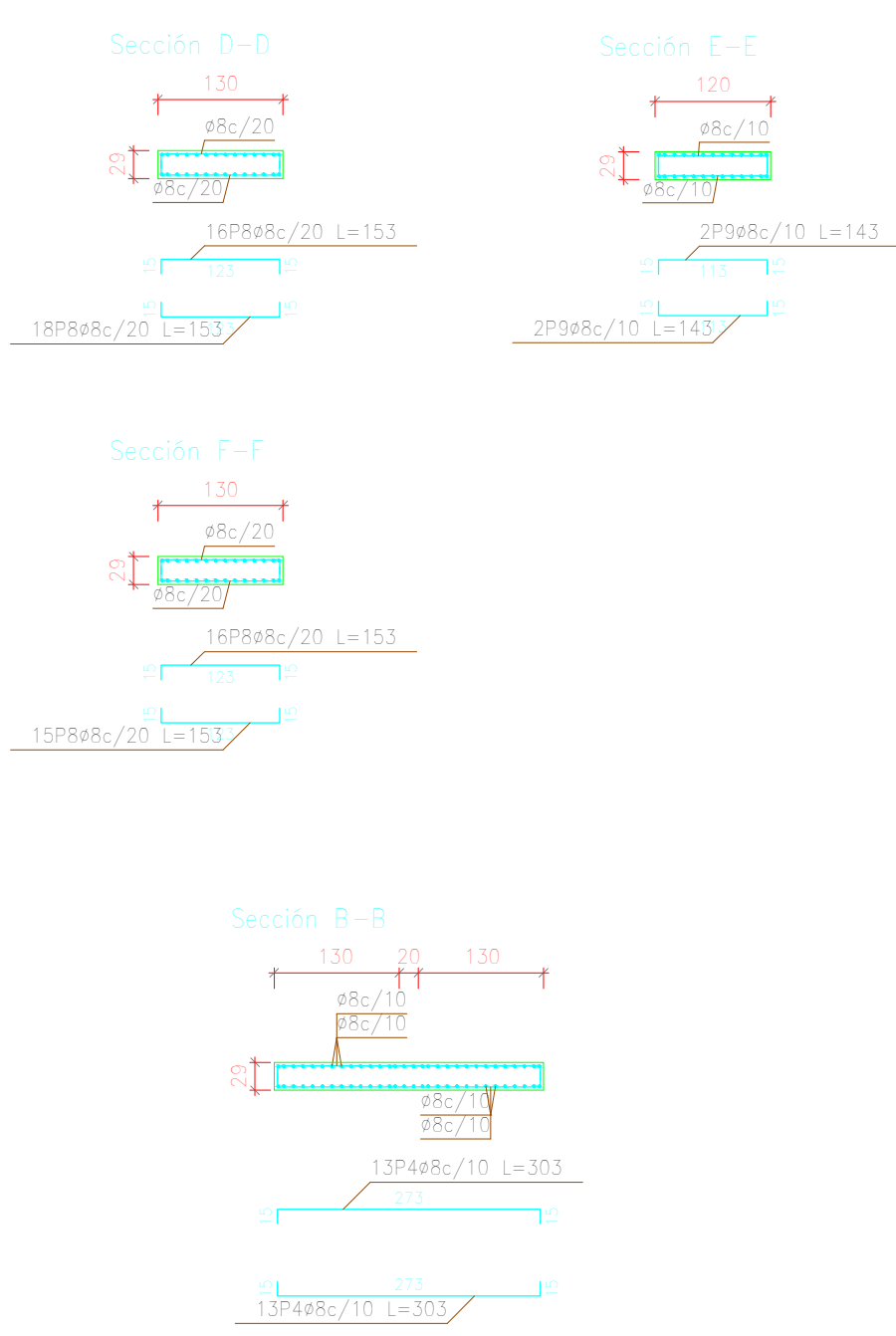
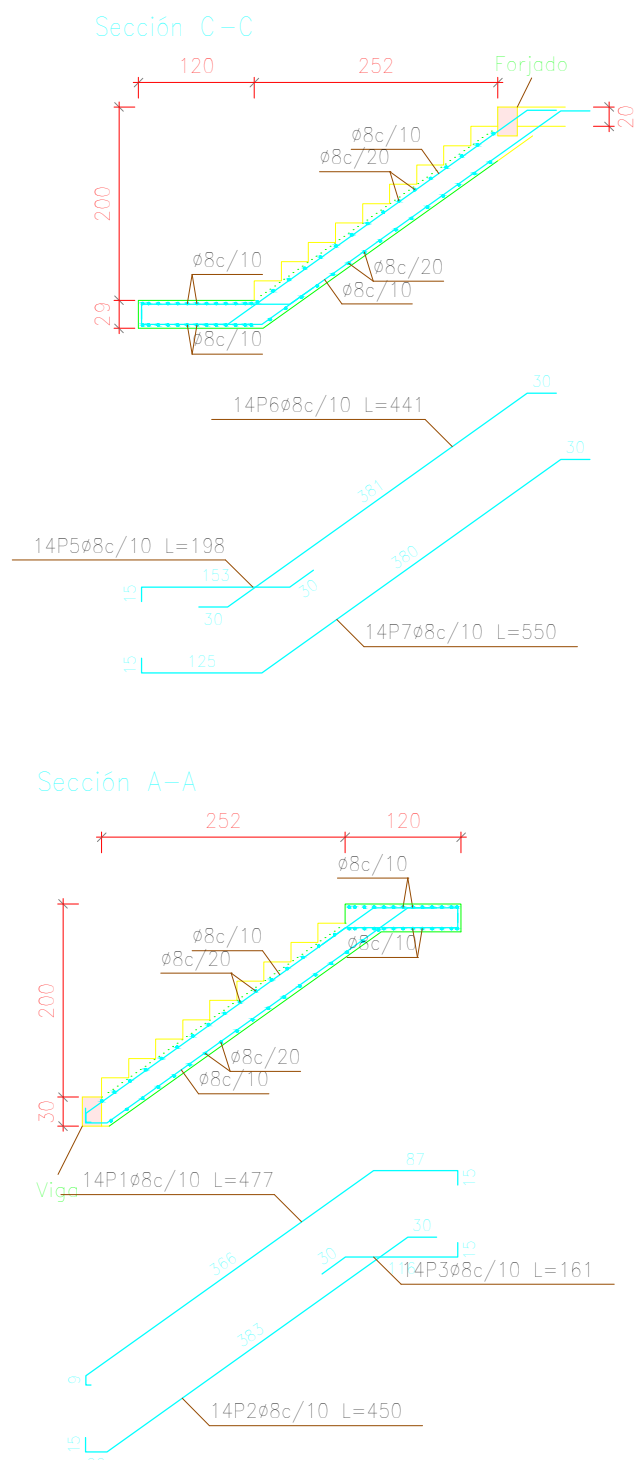
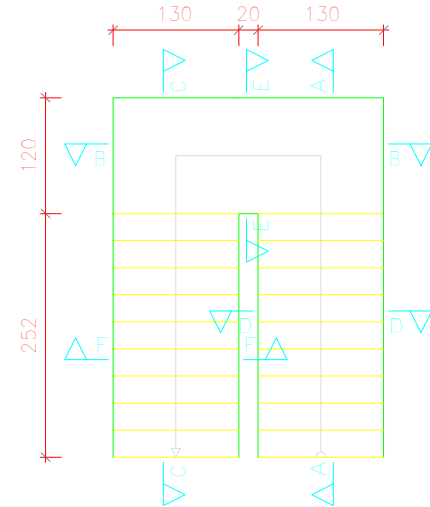
Peso propio: 0.25 t/m² (Simple), 0.32 t/m² (Doble)

Nota: Consulte los detalles referentes a enlanches con forjados de la estructura principal y de las zonas macizadas.



Escalera 1

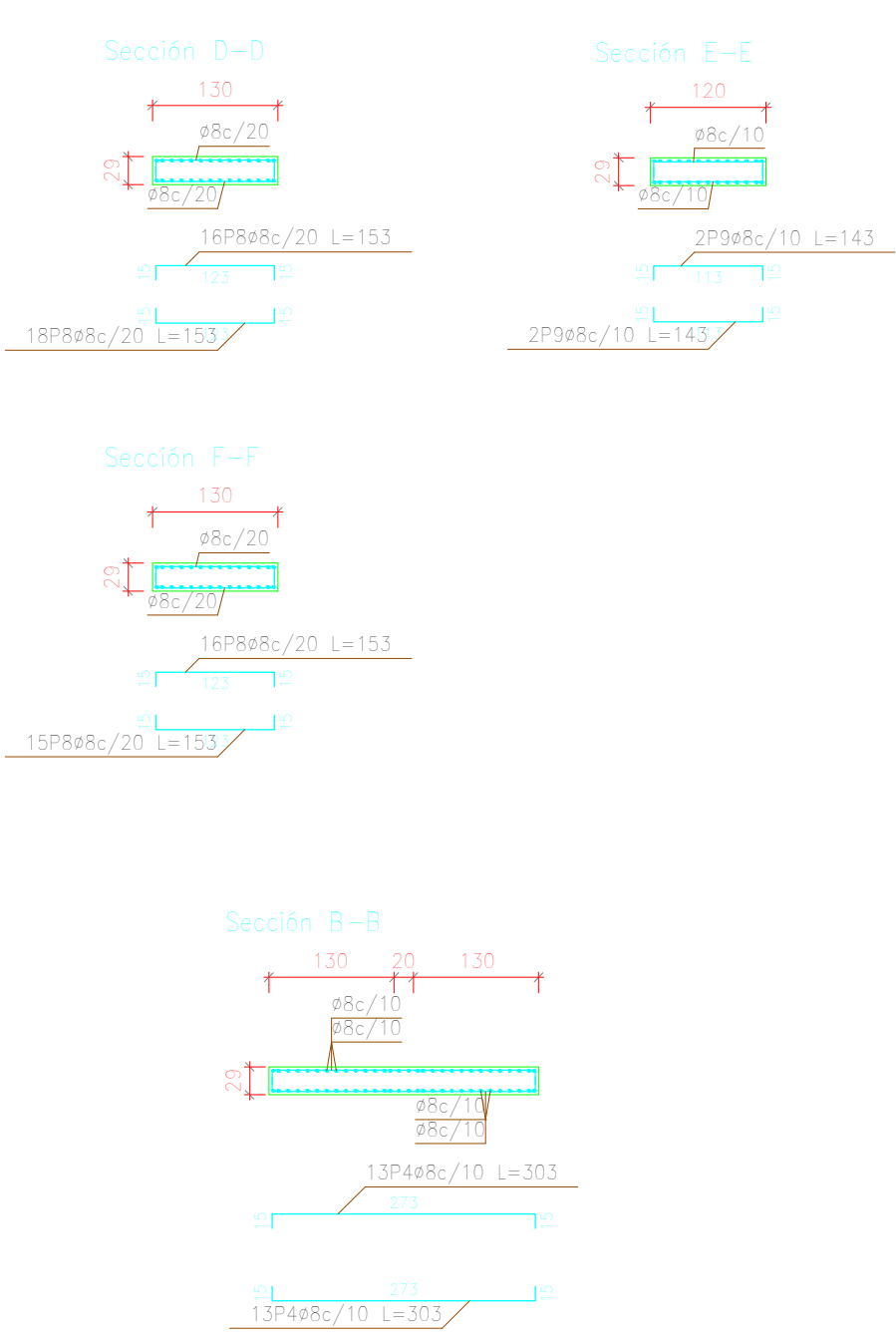
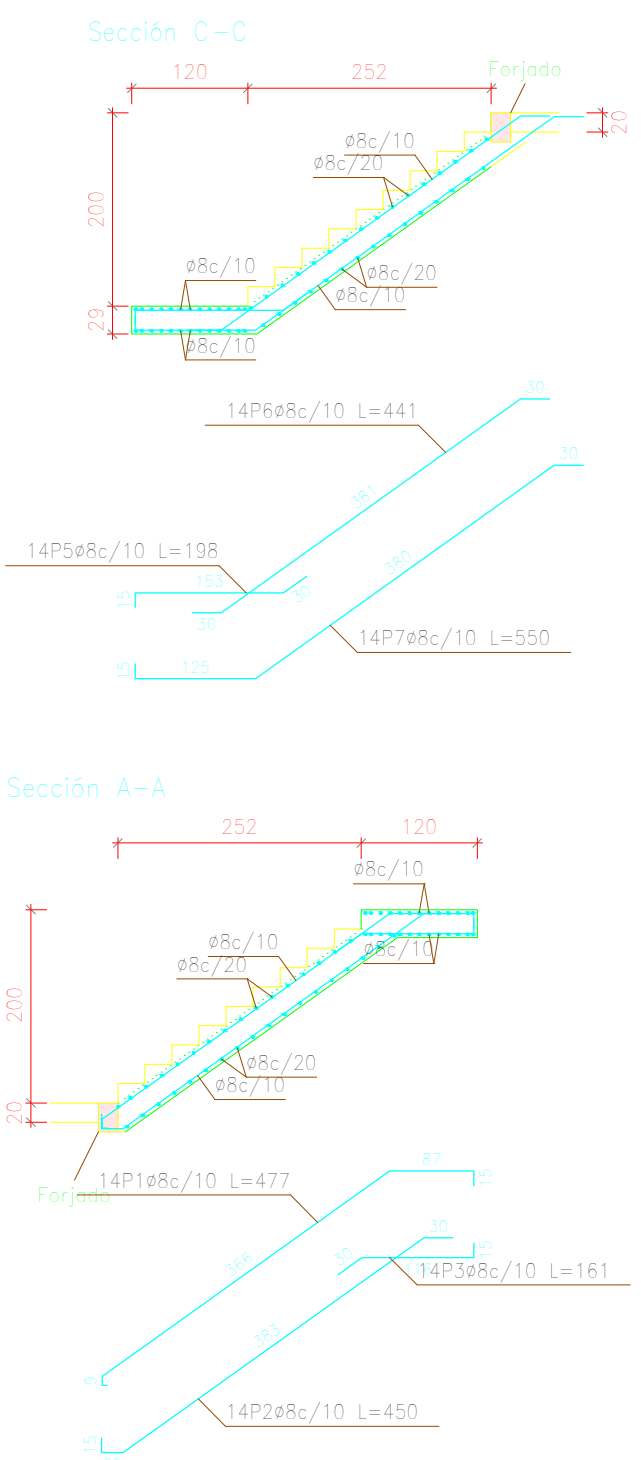
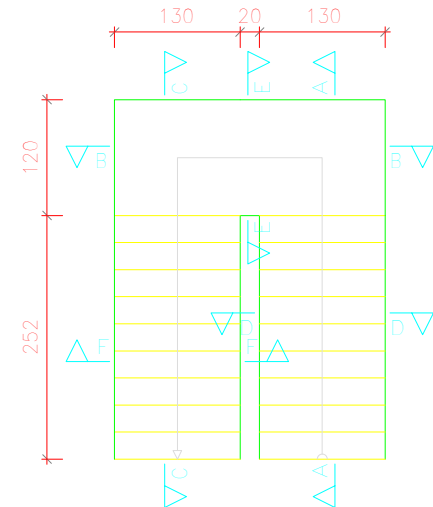
Tramo 1	
Ámbito	1,300 m
Espesor	0,20 m
Huella	0,280 m
Contrahuella	0,200 m
Desnivel que salva	4,00 m
Nº de escalones	20
Planta final	1ER. PISO
Planta inicial	PLANTA BAJA
Peso propio	0,725 t/m²
PeldaReado (Normigonado con la losa)	0,203 t/m²
Salida	0,100 t/m²
Barandillas	0,300 t/m
Sobrecarga de uso	0,300 t/m²
Hormigón	A-21 Control Normal
Acero	AH-500 Control Normal
Rec. geométrico	3,0 cm



Escala 1:100

Escalera 2

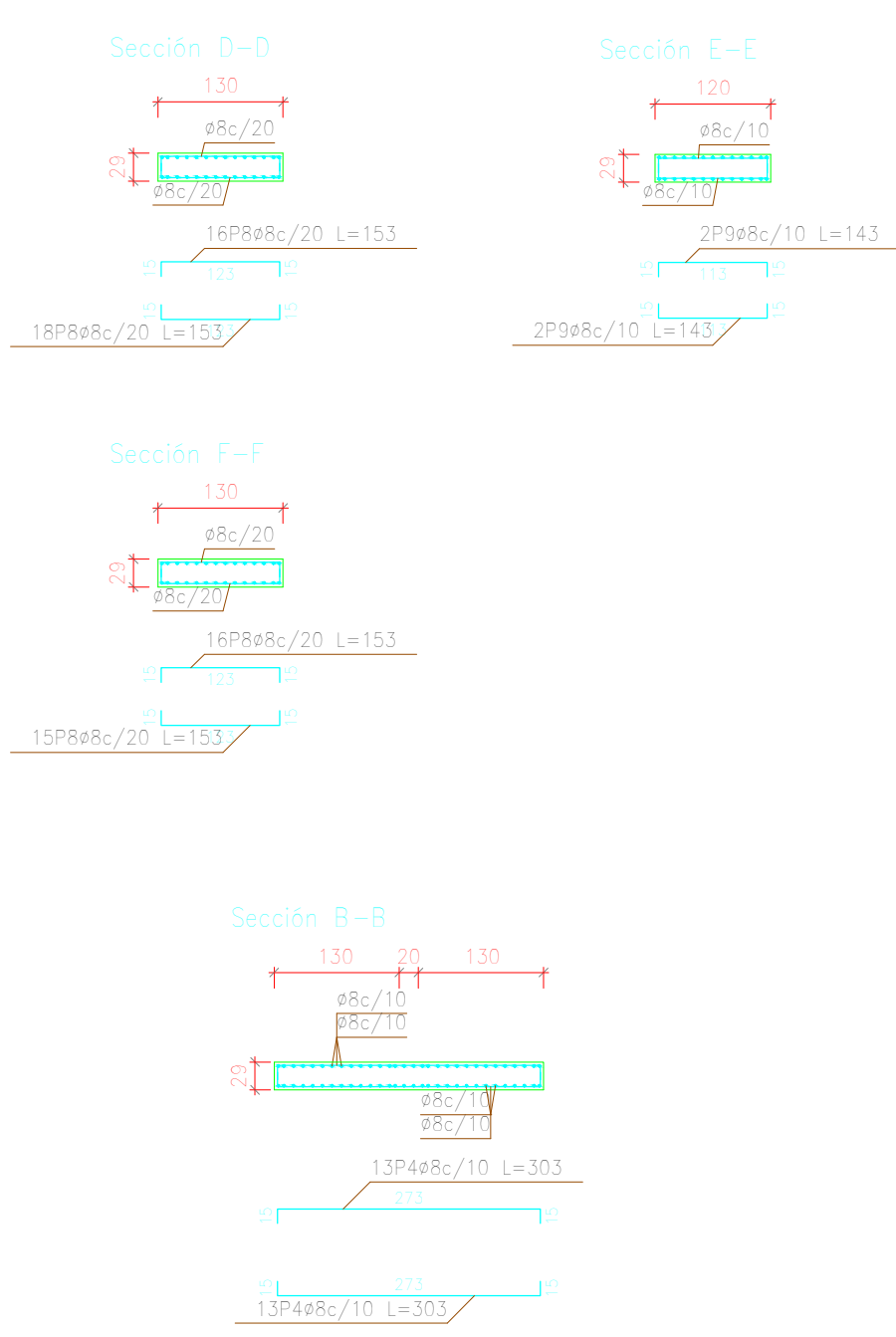
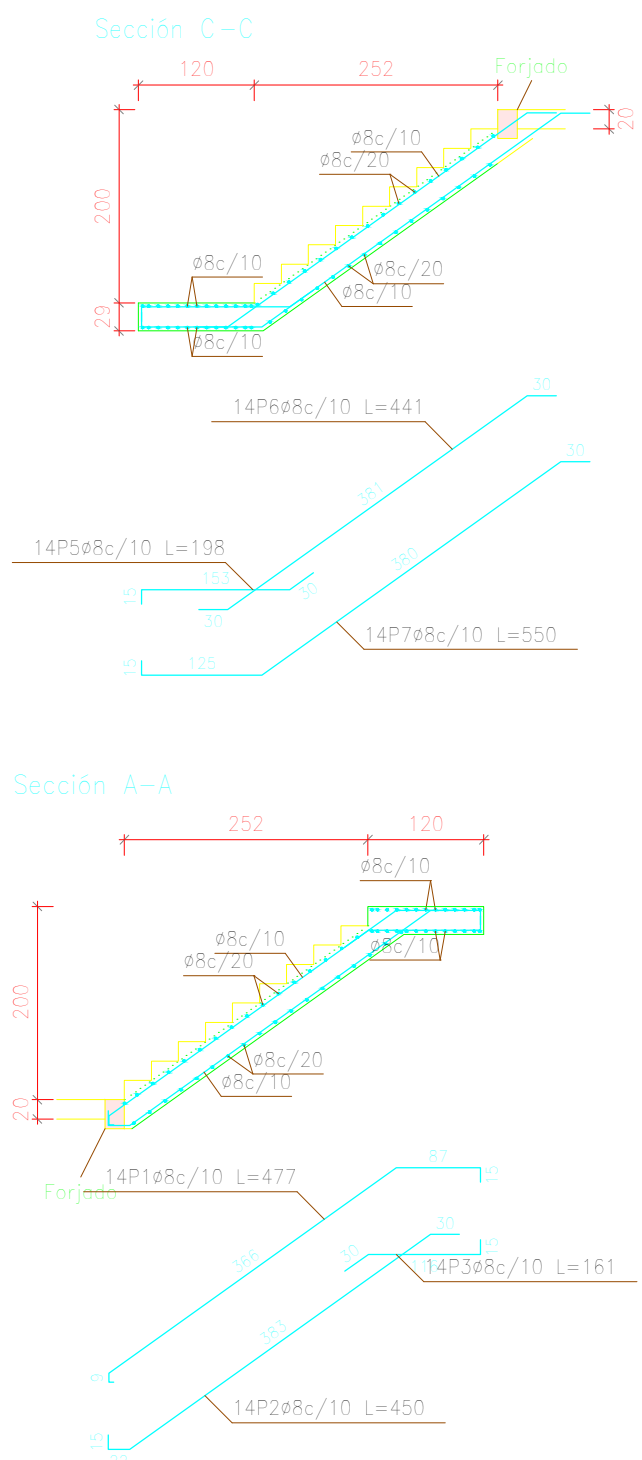
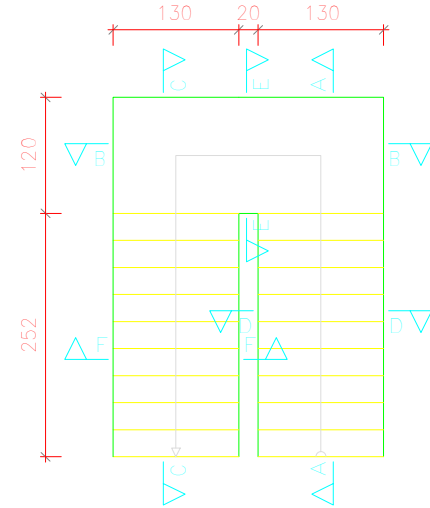
Tramo 1	
Ámbito	1,300 m
Espesor	0,20 m
Huella	0,280 m
Contrahuella	0,200 m
Desnivel que salva	4,00 m
Nº de escalones	20
Planta final	1ER. PISO
Planta inicial	1ER. PISO
Peso propio	0,725 t/m²
PeldaReado (Normigonado con la losa)	0,203 t/m²
Salida	0,100 t/m²
Barandillas	0,300 t/m
Sobrecarga de uso	0,300 t/m²
Hormigón	A-21 Control Normal
Acero	AH-500 Control Normal
Rec. geométrico	3,0 cm



Escala 1:100

Escalera 3

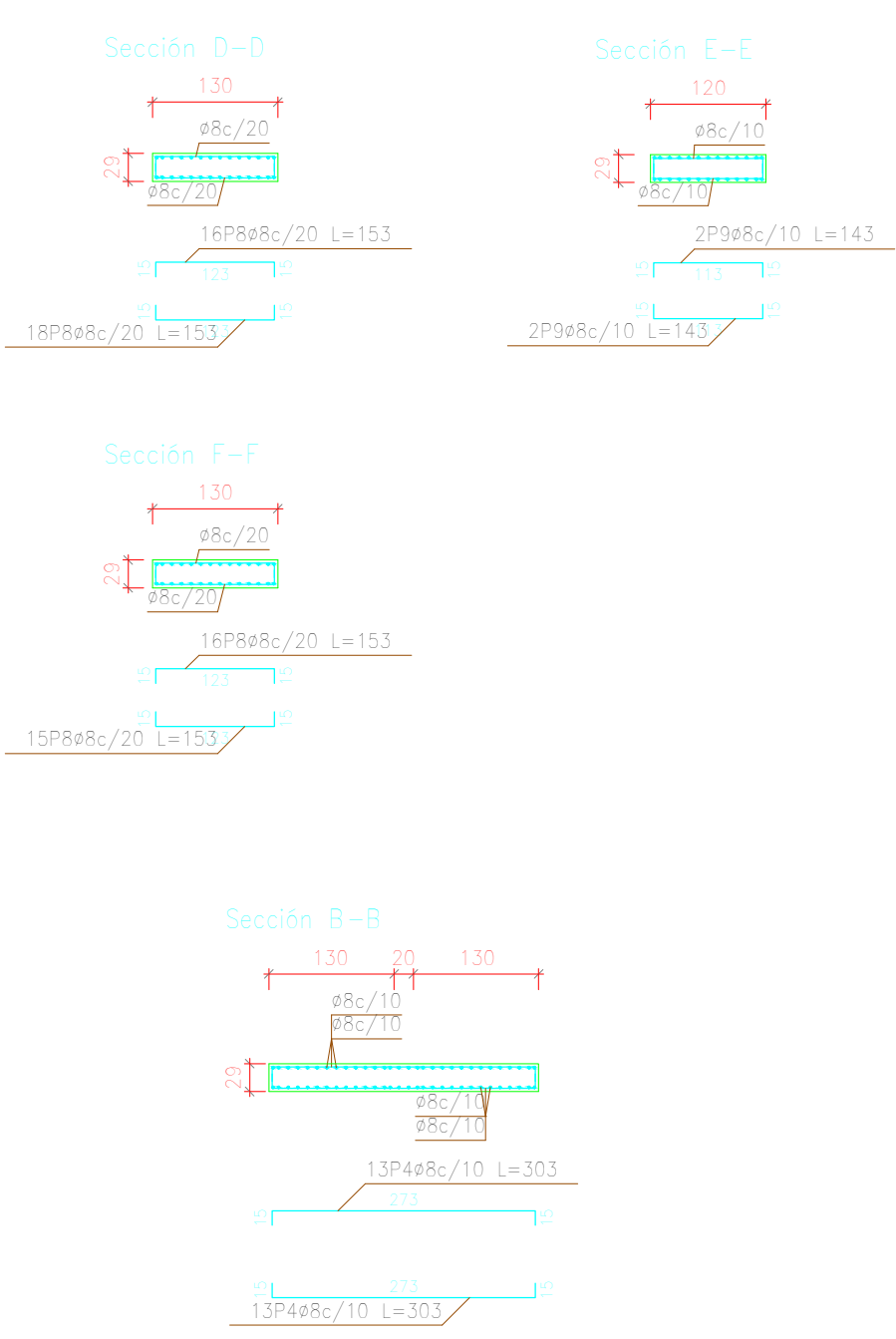
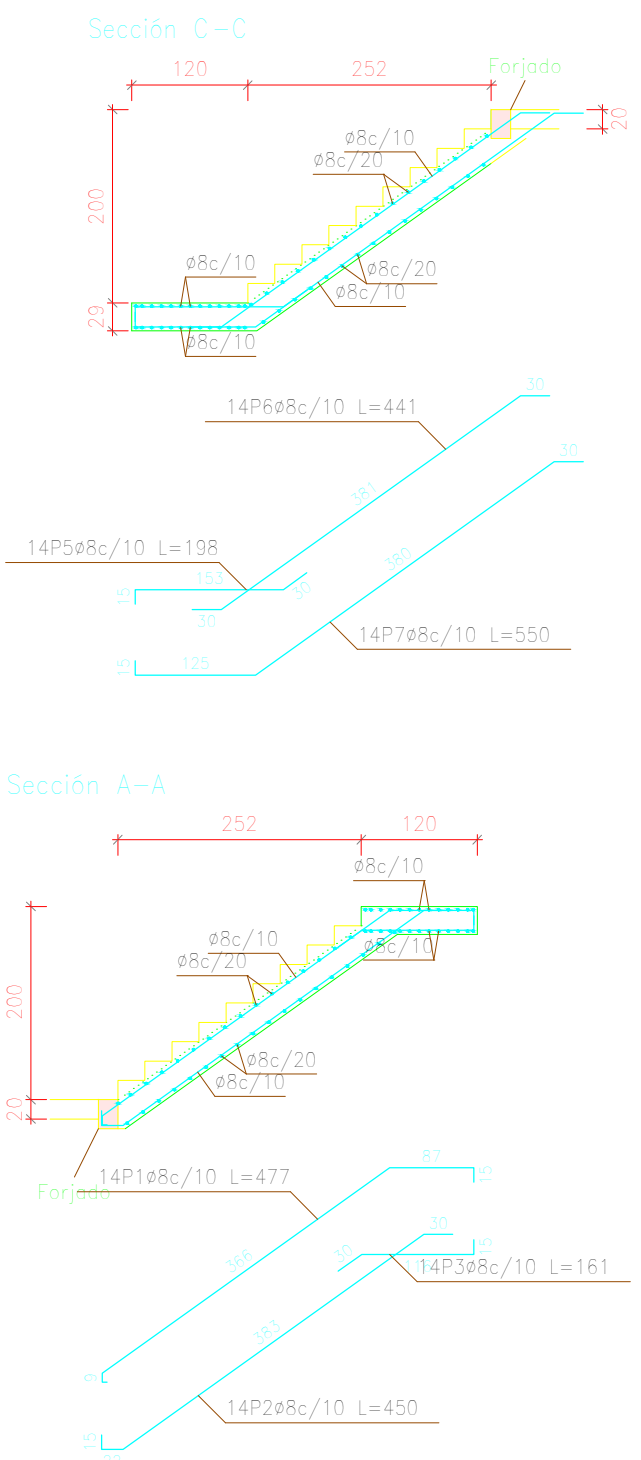
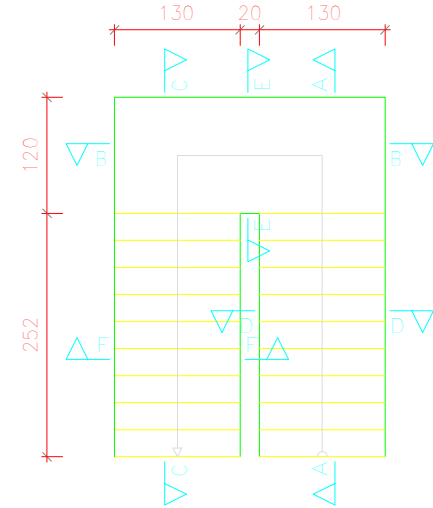
Tramo 1	
Ámbito	1,300 m
Espesor	0,20 m
Huella	0,280 m
Contrahuella	0,200 m
Desnivel que salva	4,00 m
Nº de escalones	20
Planta final	3ER. PISO
Planta inicial	2DO. PISO
Peso propio	0,725 t/m²
PeldaReado (Normigonado con la losa)	0,203 t/m²
Salida	0,100 t/m²
Barandillas	0,300 t/m
Sobrecarga de uso	0,300 t/m²
Hormigón	A-21 Control Normal
Acero	AH-500 Control Normal
Rec. geométrico	3,0 cm



Escala 1:100

Escalera 4

Tramo 1	
Ámbito	1,300 m
Espesor	0,20 m
Huella	0,280 m
Contrahuella	0,200 m
Desnivel que salva	4,00 m
Nº de escalones	20
Planta final	AZOTECA
Planta inicial	3ER. PISO
Peso propio	0,725 t/m²
PeldaReado (Normigonado con la losa)	0,203 t/m²
Salida	0,100 t/m²
Barandillas	0,300 t/m
Sobrecarga de uso	0,300 t/m²
Hormigón	A-21 Control Normal
Acero	AH-500 Control Normal
Rec. geométrico	3,0 cm



Escala 1:100

Resumen Acero Escalera	Long. total (m)	Peso+10% (kg)
AH-500CN ø8	502,7	218

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
Escalera 3-Tramo 1	1	ø8	14	477	6678	26,4
	2	ø8	14	450	6300	24,9
	3	ø8	14	161	2254	8,9
	4	ø8	26	303	7878	31,1
	5	ø8	14	198	2772	10,9
	6	ø8	14	441	6174	24,4
	7	ø8	14	550	7700	30,4
	8	ø8	60	153	9146	39,2
	9	ø8	4	143	572	2,3
Total+10%						218,4
ø8: Total						218,4



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DISEÑO ESTRUCTURAL
CASA FISCAL DE TARIJA

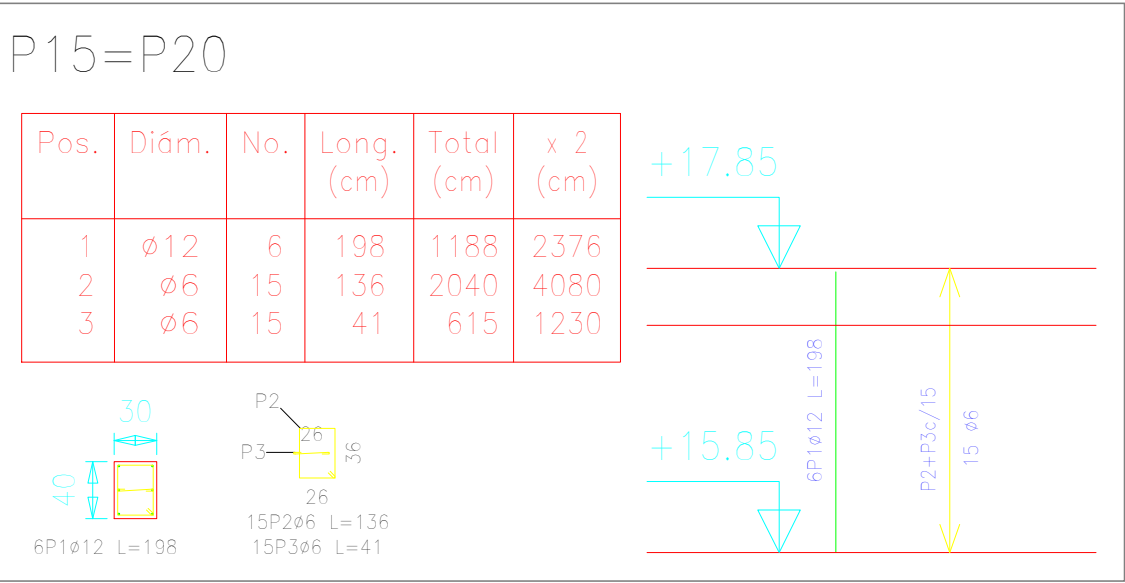
CONTENIDO:
PLANO DE ESCALERAS

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ESCALA:
1:100

PLANO
9/10

VoBo

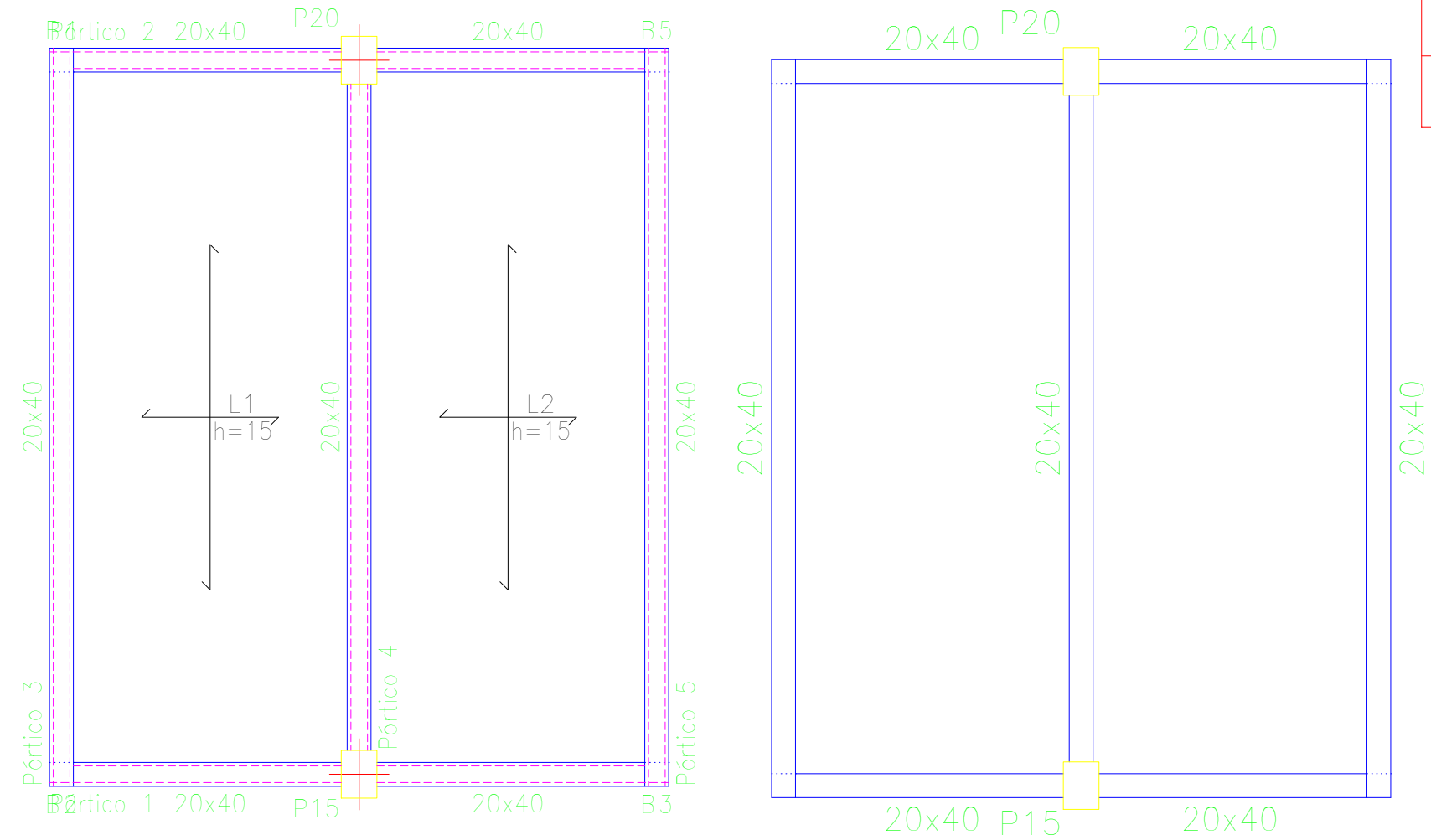


Pilares que terminan en TANQUE

Hormigón: H-21 , Control Normal

Acero: AH-500 , Control Normal

Escala: 1:100



Resumen Acero TANQUE	Long. total (m)	Peso+10% (kg)
Armadura longitudinal inferior		
AH-500CN ø6	214.5	52

Resumen Acero TANQUE Vigas	Long. total (m)	Peso+10% (kg)	Total
AH-500CN ø6	215.8	53	
ø10	64.5	44	
ø12	76.2	74	
ø16	34.0	59	230

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
P15=P20	1	ø12	6	198	1188	10,5
	2	ø6	15	136	2040	4,5
	3	ø6	15	41	615	1,4
Total+10%: (x2):					18,0	36,0
Armadura longitudinal inferior	4	ø6	78	275	21450	47,6
	Total+10%:					52,4
Pértico 1=Pértico 2	5	ø12	4	300	1200	10,7
	6	ø10	2	566	1132	7,0
	7	ø16	3	566	1698	26,8
	8	ø6	38	116	4408	9,8
Total+10%: (x2):					59,7	119,4
Pértico 3=Pértico 5	9	ø12	2	666	1332	11,8
	10	ø10	2	616	1232	7,6
	11	ø6	45	116	5220	11,6
Total+10%: (x2):					34,1	68,2
Pértico 4	12	ø12	2	686	1372	12,2
	13	ø12	2	415	830	7,4
	14	ø10	2	686	1372	8,5
	15	ø12	2	175	350	3,1
	16	ø10	2	175	350	2,2
	17	ø6	20	116	2320	5,1
	Total+10%:					42,4
ø6:					117,9	
ø10:					43,7	
ø12:					97,8	
ø16:					59,0	
Total:					318,4	

Resumen Acero TANQUE Pilares	Long. total (m)	Peso+10% (kg)	Total
AH-500CN ø6	53.1	13	
ø12	23.8	23	36

TANQUE

Cimentación

Hormigón: H-21 , Control Normal

Escala: 1:100

TANQUE

Despiece de vigas

Hormigón: H-21 , Control Normal

Acero: AH-500 , Control Normal

Escala: 1:100

TANQUE

Replanteo

Hormigón: H-21 , Control Normal

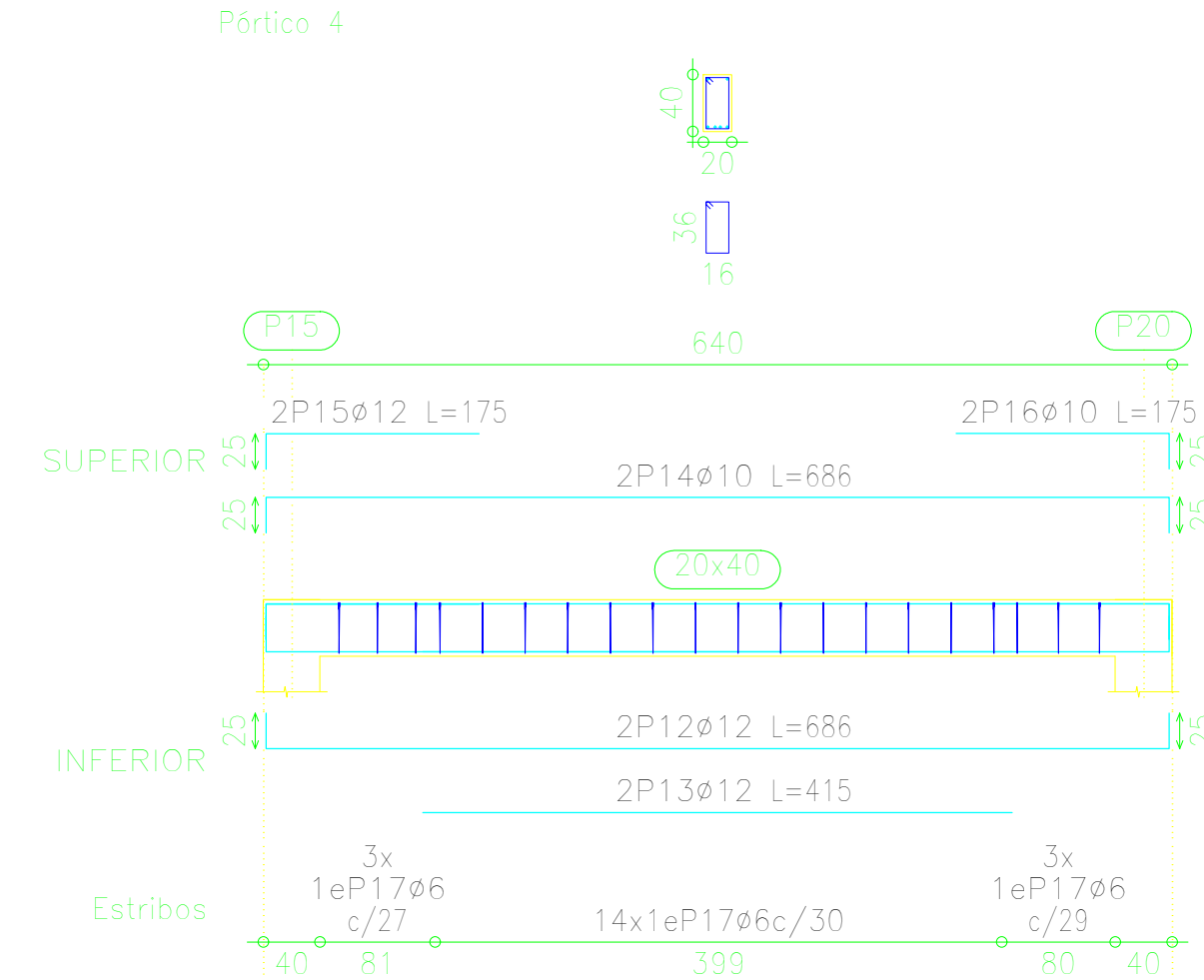
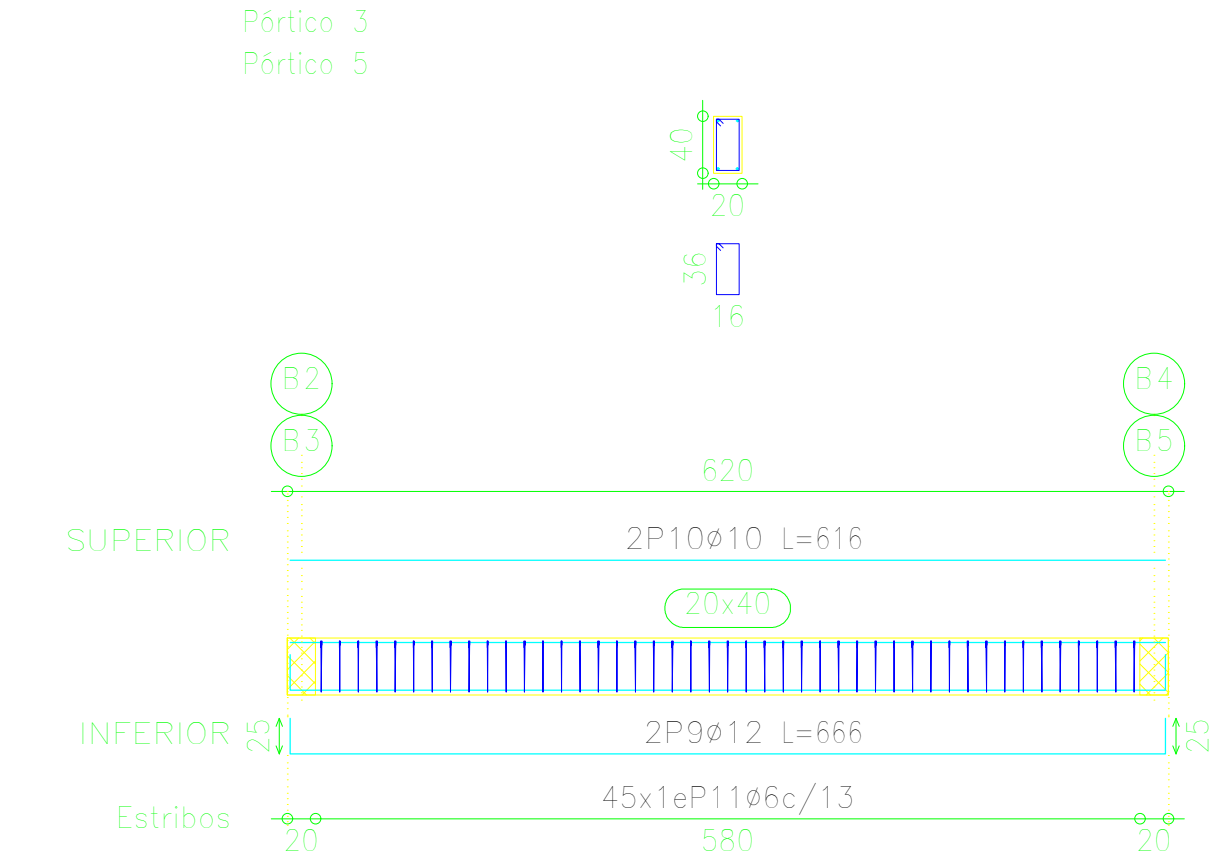
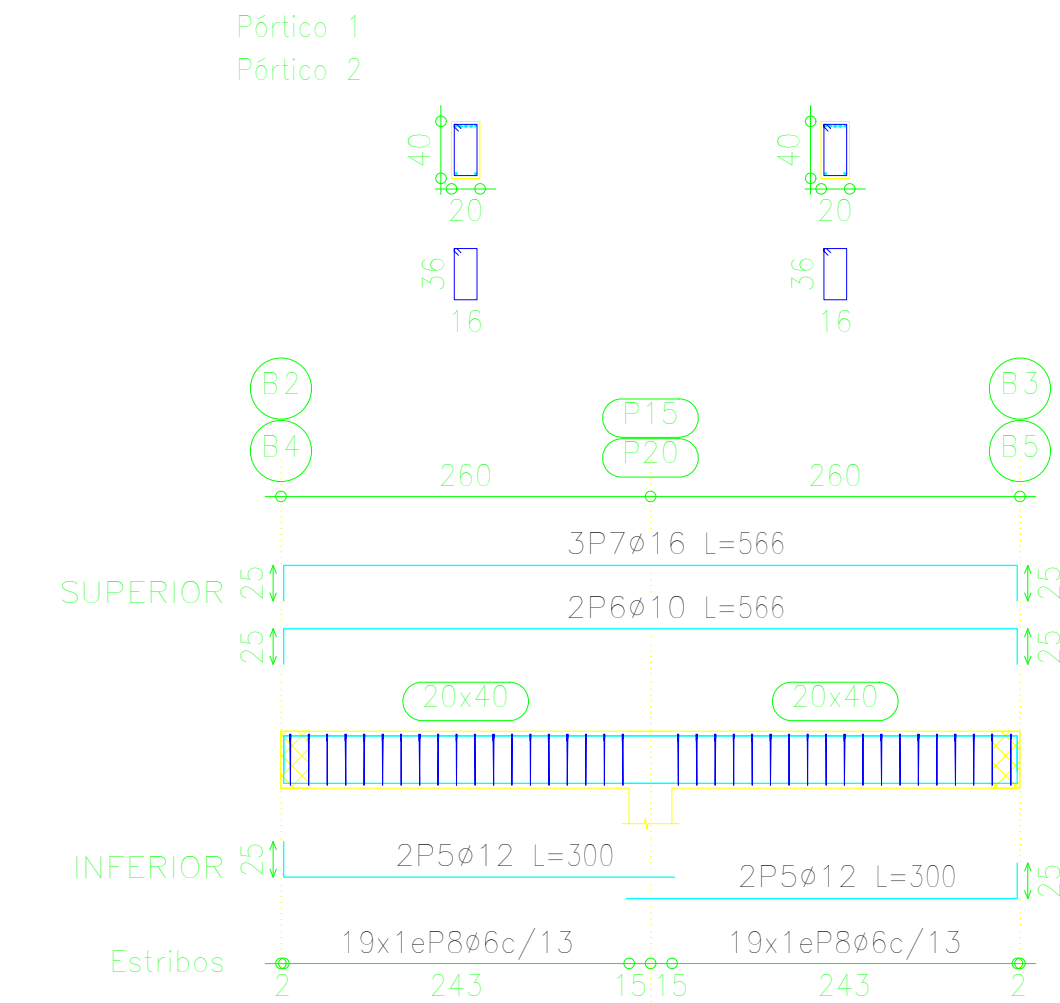
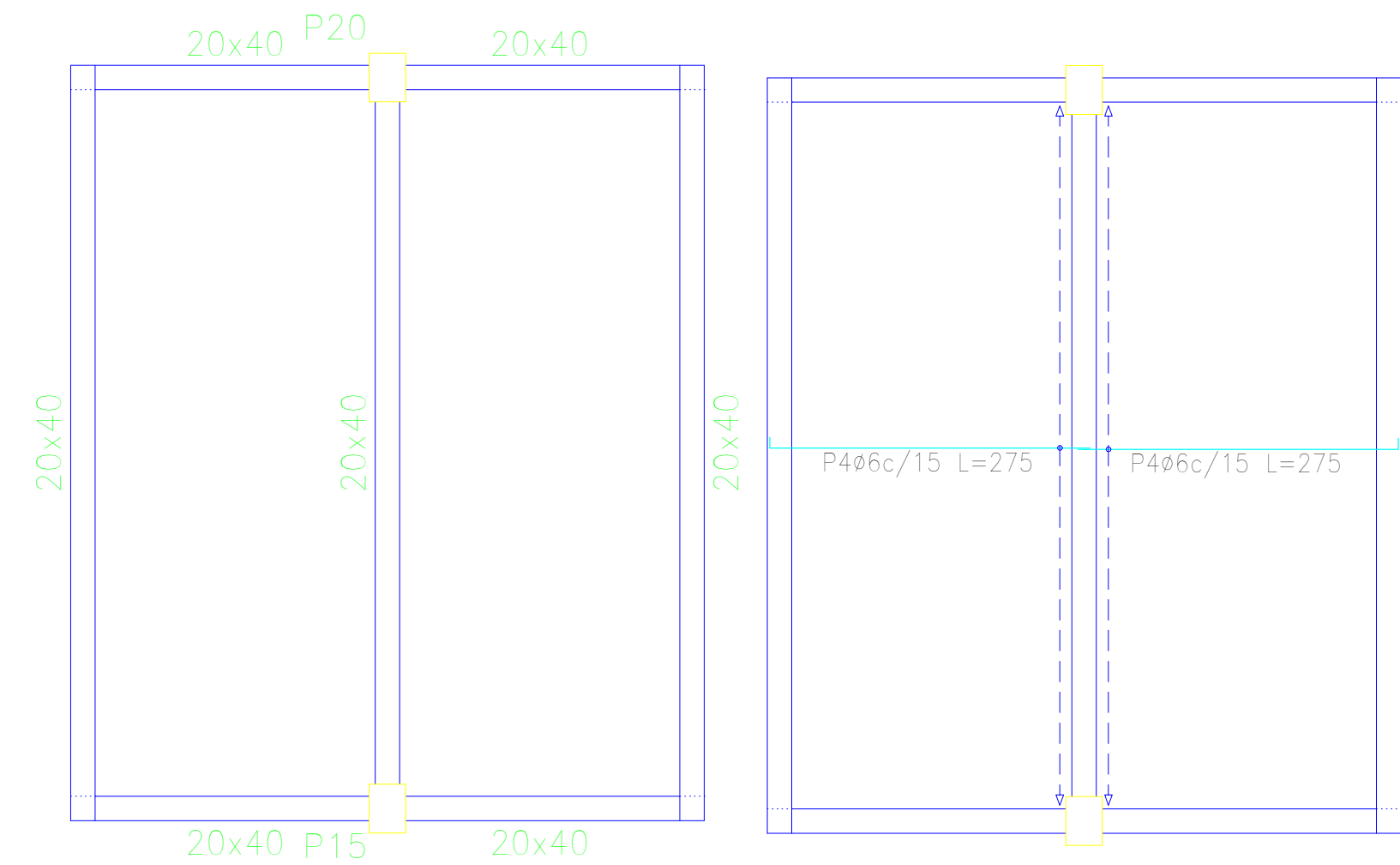
Escala: 1:100

TANQUE

Despiece cimentación

Hormigón: H-21 , Control Normal

Escala: 1:100



TANQUE

Armadura longitudinal inferior

Hormigón: H-21 , Control Normal

Acero: AH-500 , Control Normal

Escala: 1:100



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"

FACULTAD DE CIENCIAS Y TECNOLOGIA



DISEÑO ESTRUCTURAL

CASA FISCAL DE TARIJA

CONTENIDO:

PLANO DEL TANQUE ELEVADO

UNIVERSITARIO:

UNIV. CARLOS ALBERTO ZENTENO BENITEZ

ESCALA:

1:100

PLANO

10/10

VoBo