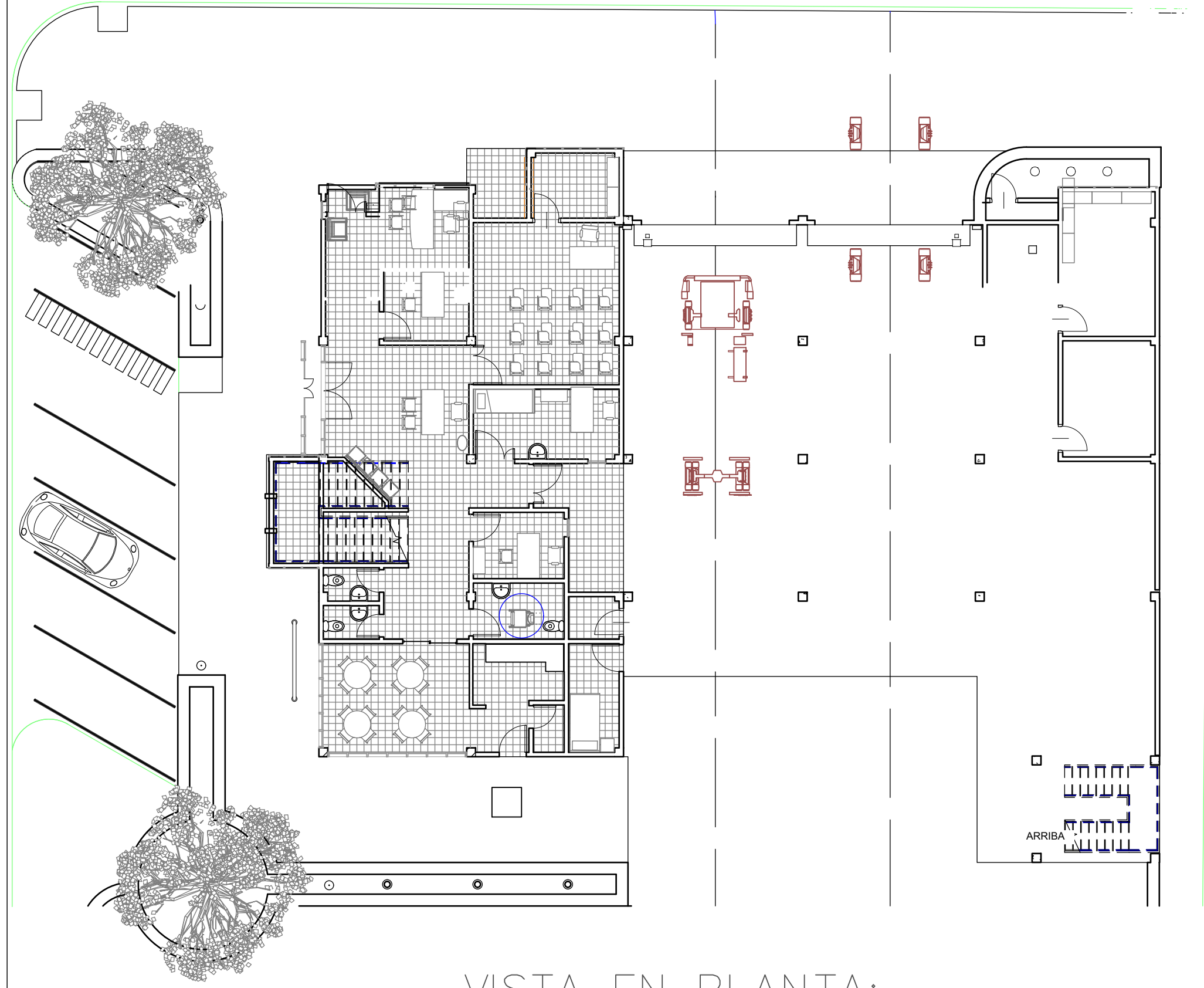
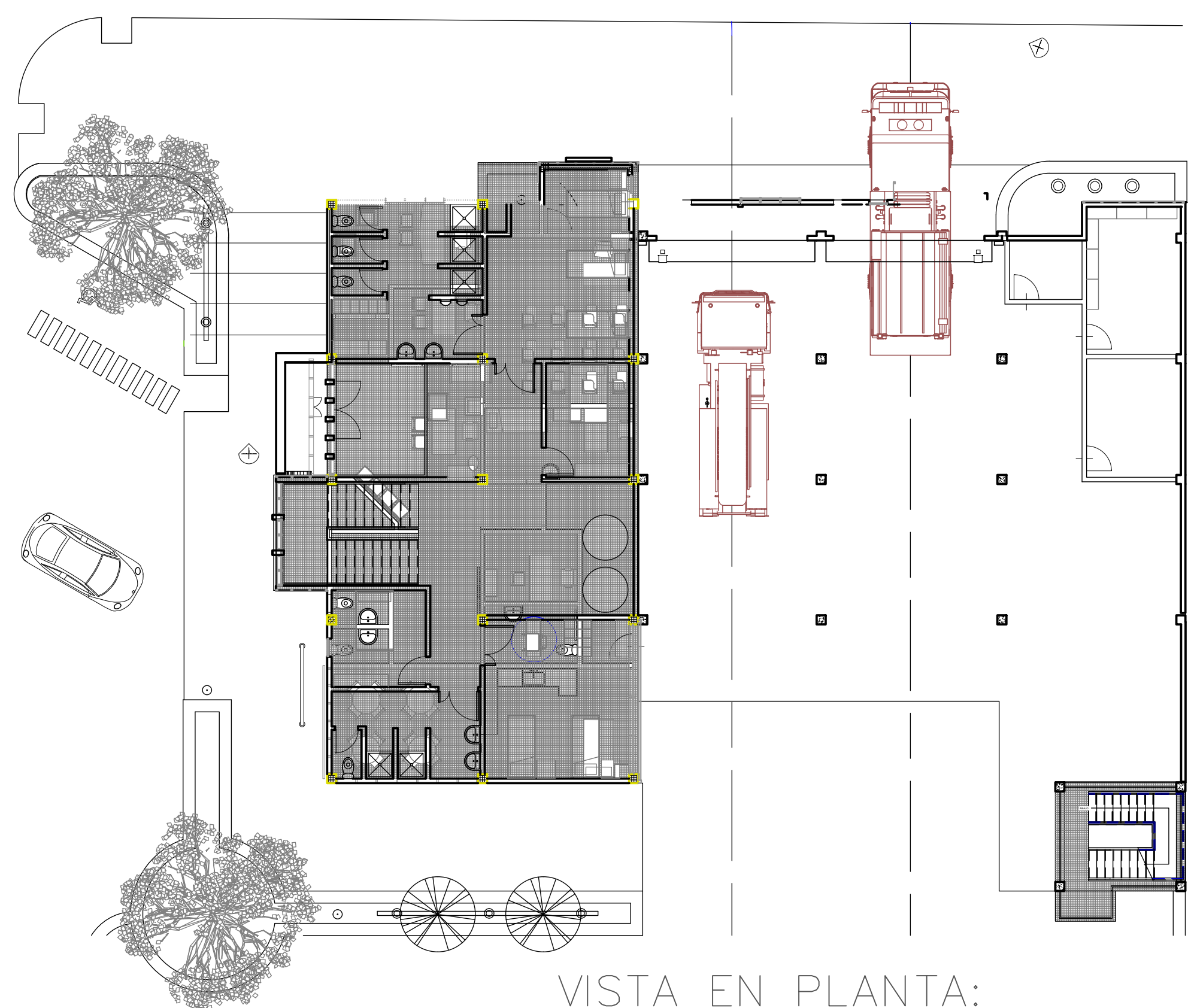
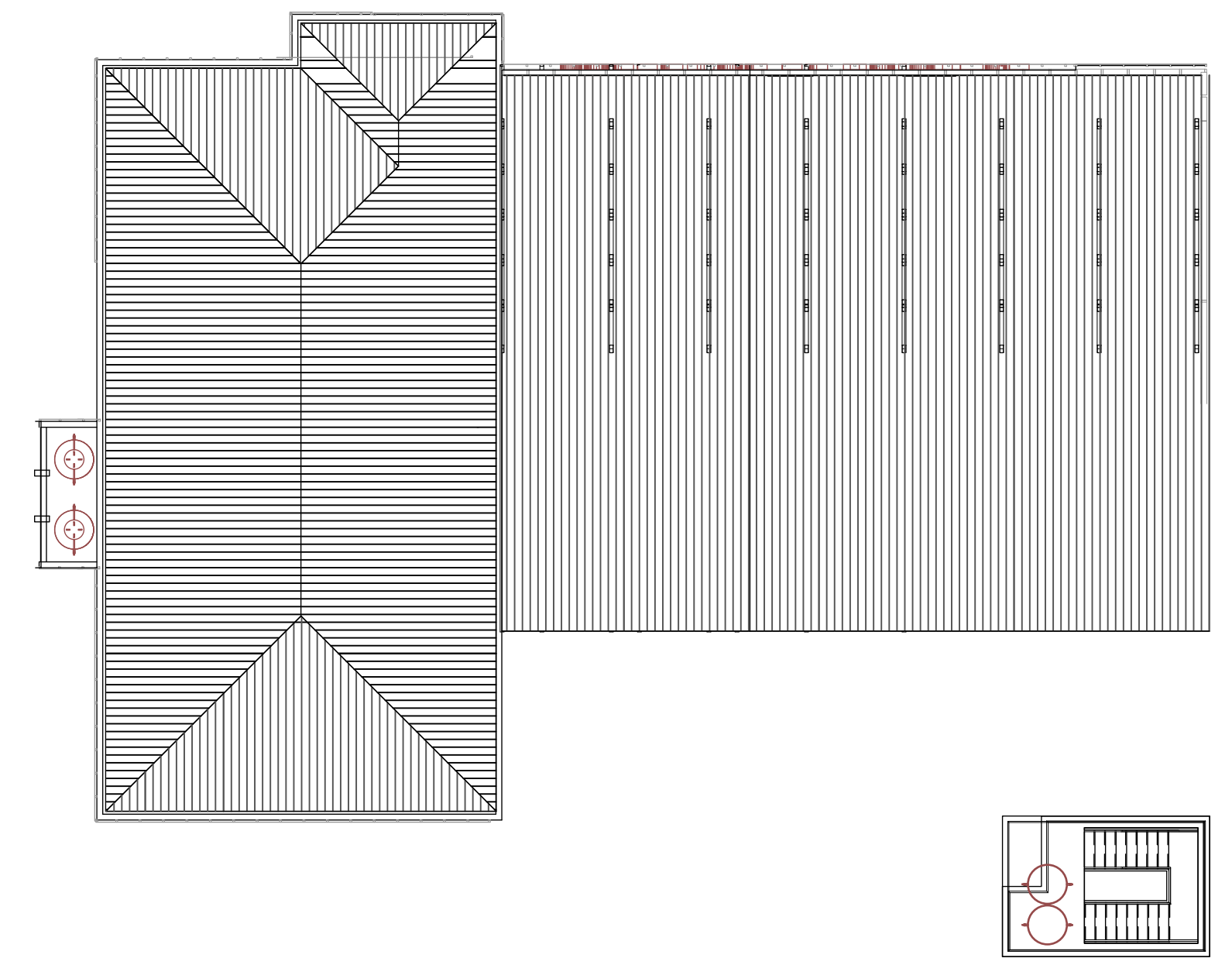




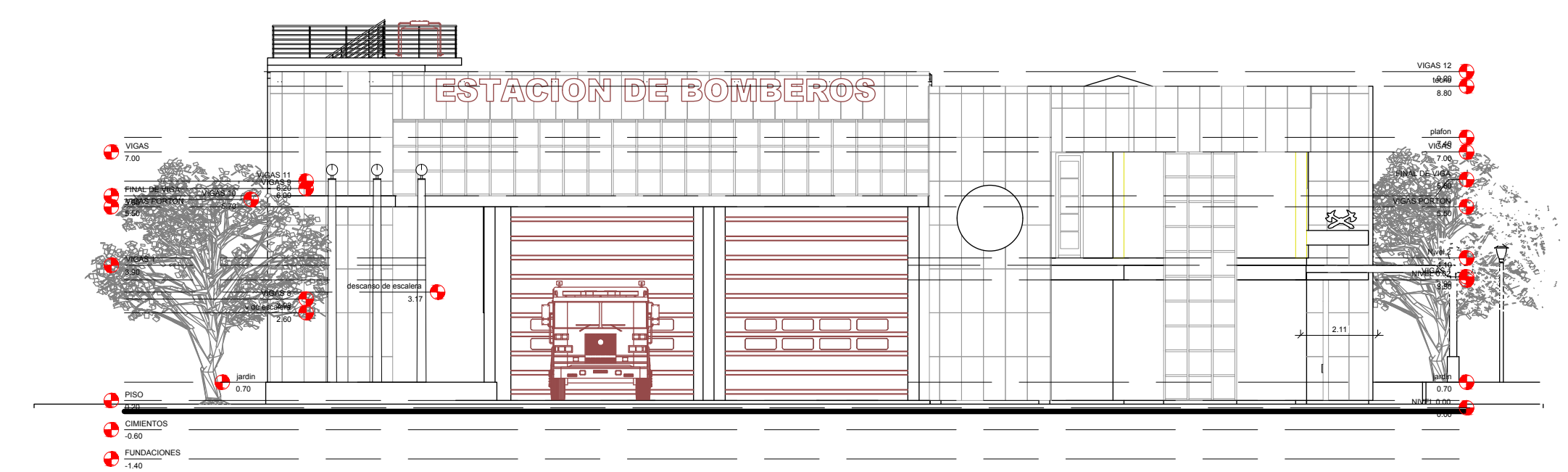
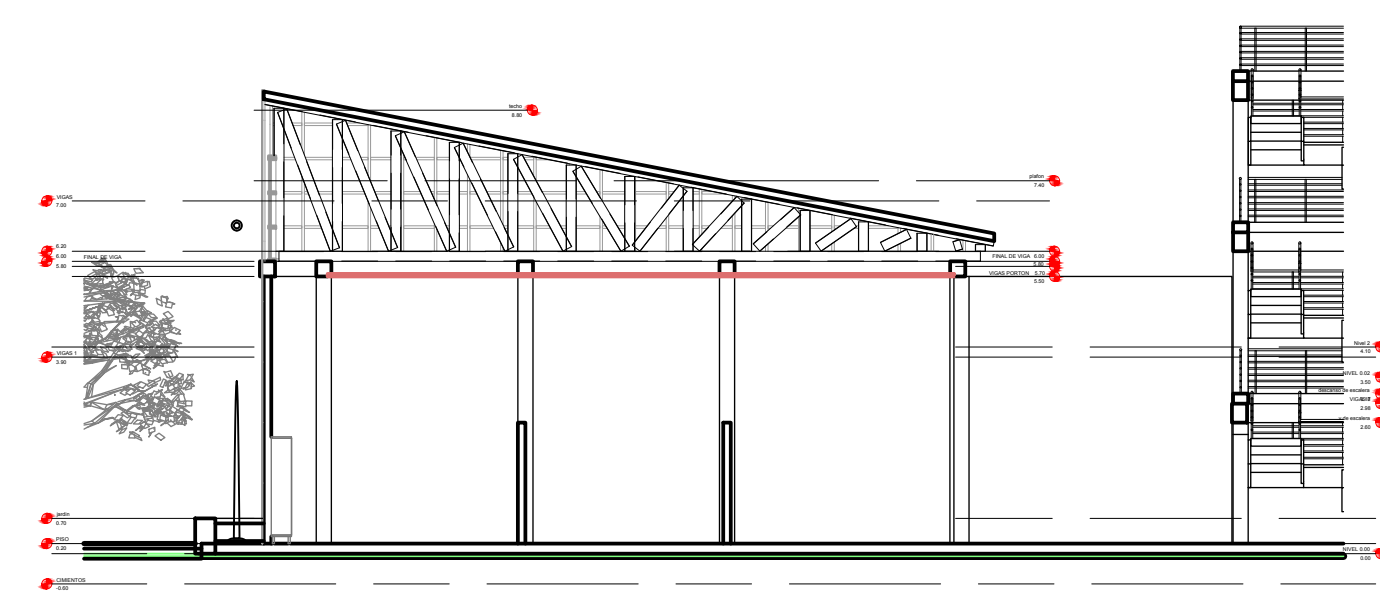
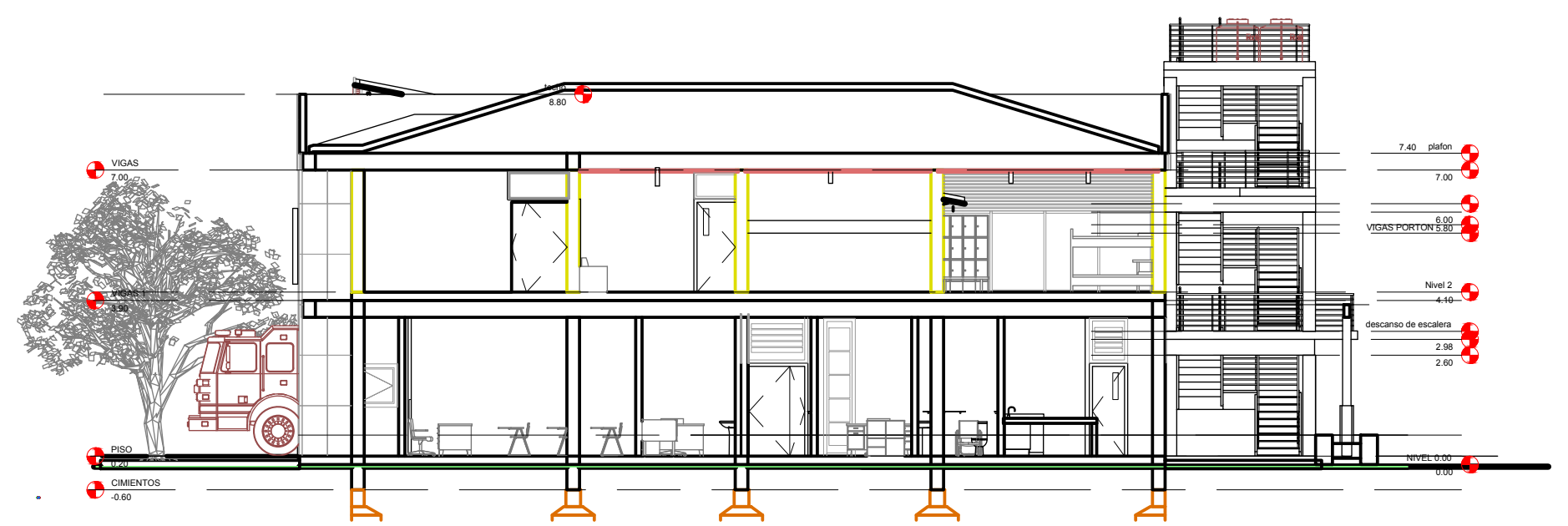
VISTA EN PLANTA:
PLANTA BAJA



VISTA EN PLANTA:
PRIMERA PLANTA



VISTA EN PLANTA:
CUBIERTA



	UNIVERSIDAD AUTÓNOMA JUAN MISAEL SARACHO	UNIVERSITARIO: HERBAS HUANCA JUANA RAQUEL	ASIGNATURA: CIV – 502 PROYECTO DE INGENIERÍA CIVIL II	TRIBUNAL: Dr. Ing. Alberto Benitez Ing. Armando Almendras Ing. Carola Sánchez	V°B° "DISEÑO ESTRUCTURAL PARA LA CONSTRUCCIÓN DE UNA ESTACIÓN DE BOMBEROS PARA EL MUNICIPIO DE ENTRE RÍOS"	CARACTER: PLANOS ARQUITECTÓNICOS VISTAS EN PLANTA Y CORTE	ESCALA: 1/150	FECHA: FEBRERO DE 2021	LÁMINA: 1/15
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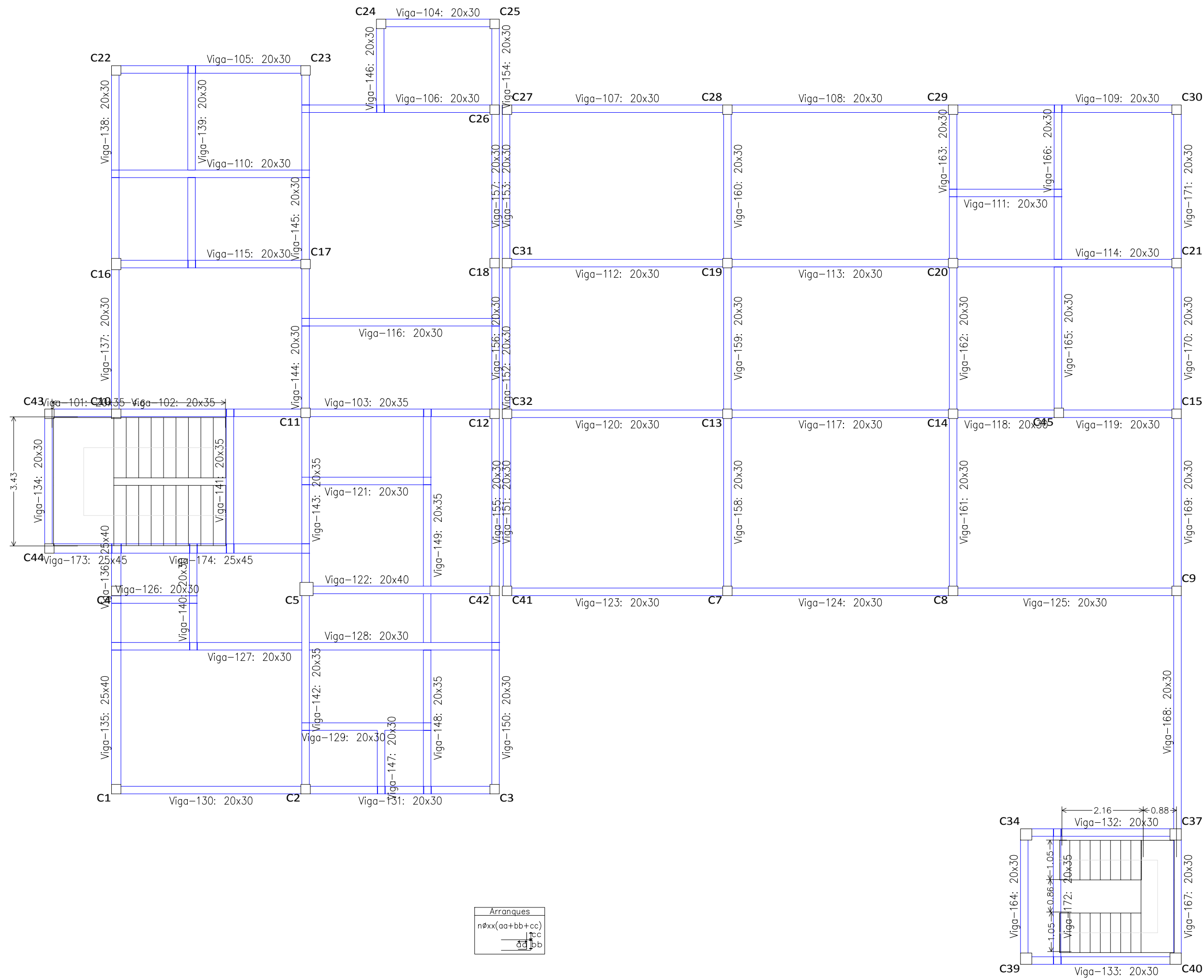


UNIVERSIDAD AUTÓNOMA JUAN MISAEL SARACHO	UNIVERSITARIO: HERBAS HUANCA JUANA RAQUEL	ASIGNATURA: CIV – 502 PROYECTO DE INGENIERÍA CIVIL II	TRIBUNAL: V°B° Dr. Ing. Alberto Benítez Ing. Armando Almendras Ing. Carola Sánchez	"DISEÑO ESTRUCTURAL PARA LA CONSTRUCCIÓN DE UNA ESTACIÓN DE BOMBEROS PARA EL MUNICIPIO DE ENTRE RÍOS"	CARACTER: PLANOS ARQUITECTÓNICOS Y FACHADAS	ESCALA: 1/150	FECHA: FEBRERO DE 2021	LÁMINA: 2/15
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Cimentación
Cimentación
Hormigón: H-21 , Control Normal
Escala: 1:100

CUADRO DE ELEMENTOS DE CIMENTACIÓN						
Referencias	Dimensiones (cm)	Canto (cm)	Armado inf. X	Armado inf. Y	Armado sup. X	Armado sup. Y
C1, C3, C21, C22, C29 y C40	160x160	35	5Ø12c/30	5Ø12c/30		
C2 y C23	200x200	35	8Ø12c/25	8Ø12c/25		
C4	200x250	30	12Ø12c/20	10Ø16c/20	12Ø12c/20	10Ø12c/20
C5	260x260	40	10Ø16c/25	10Ø16c/25		
C7, C8, C13, C19 y C28	110x110	30	4Ø12c/30	4Ø12c/30		
C9, C15 y C45	130x130	30	4Ø12c/30	4Ø12c/30		
C11 y C17	220x220	35	11Ø16c/20	11Ø16c/20		
C14 y C25	115x115	30	4Ø12c/30	4Ø12c/30		
C16	180x180	35	7Ø12c/25	7Ø12c/25		
C20 y C30	145x145	30	5Ø12c/30	5Ø12c/30		
C24 y C44	135x135	30	5Ø12c/30	5Ø12c/30		
C34 y C39	210x210	40	10Ø12c/20	10Ø12c/20		
C37	170x170	35	6Ø12c/30	6Ø12c/30		
(C10-C43)	310x200	40	10Ø16c/20	15Ø16c/20	10Ø16c/20	15Ø16c/20
(C12-C32), (C18-C31), (C26-C27) y (C41-C42)	200x200	40	8Ø12c/25	8Ø12c/25		

PLANTA BAJA
Cimentación
Hormigón: H-21 , Control Normal
Escala: 1:100



UNIVERSIDAD AUTÓNOMA
JUAN MISAEL SARACHO

UNIVERSITARIO:
HERBAS HUANCA
JUANA RAQUEL

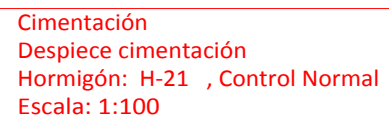
ASIGNATURA:
CIV – 502
PROYECTO DE
INGENIERÍA CIVIL II

TRIBUNAL: V°B°
Dr. Ing Alberto Benítez
Ing. Armando Almendras
Ing. Carola Sánchez

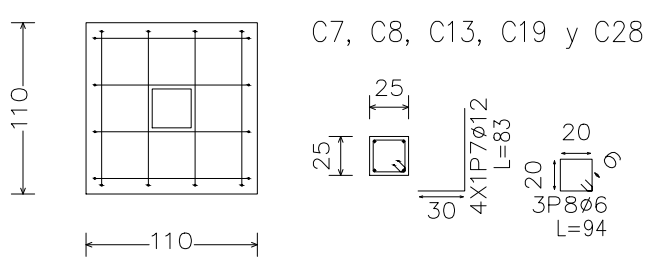
"DISEÑO ESTRUCTURAL PARA LA
CONSTRUCCIÓN DE UNA ESTACIÓN
DE BOMBEROS PARA EL MUNICIPIO
DE ENTRE RÍOS"

CARACTER:
PLANOS DETALLE DE CIMENTACIONES Y VISTA EN
PLANTA

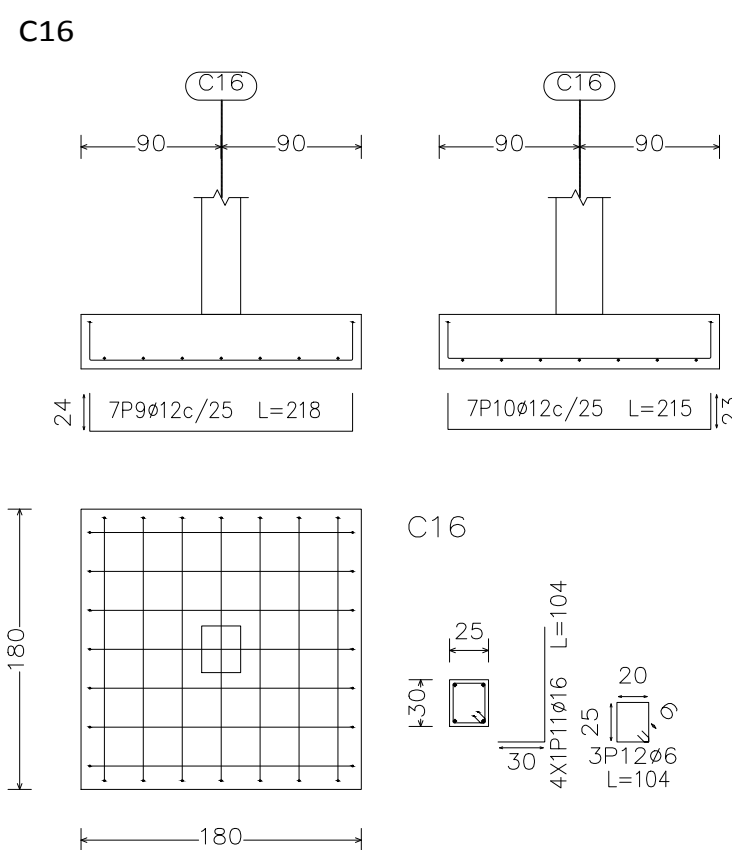
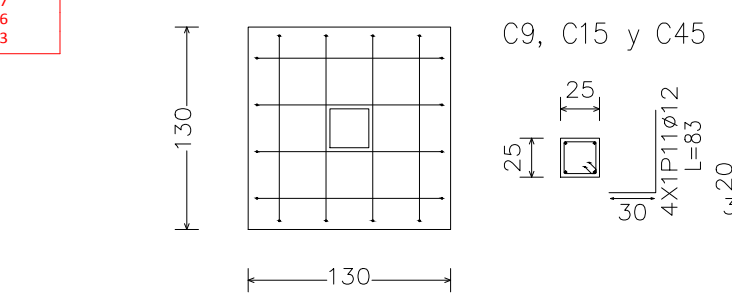
ESCALA: 1/100
FECHA: FEBRERO
DE 2021
LÁMINA: 3/15

[illegible]

Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
Despiece cimentación			
AH-500CN Ø6	116.4	28	1525
Ø12	902.9	882	
Ø16	354.3	615	

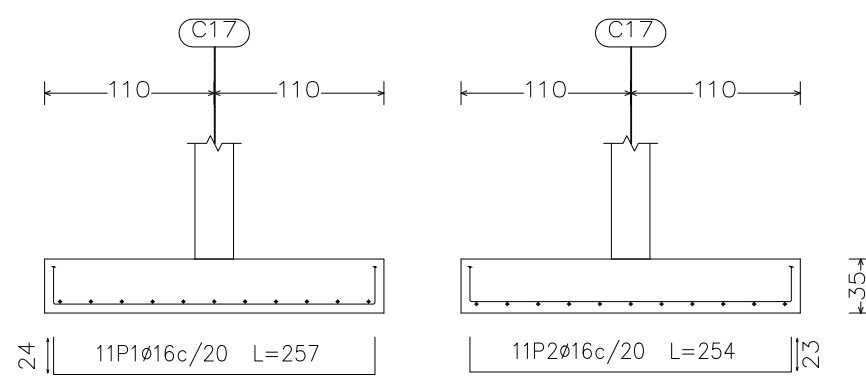


Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500K (kg)
C5	1	Ø16	10	307	3070	48.5
	2	Ø16	10	306	3060	48.0
	3	Ø16	4	108	432	6.8
	4	Ø6	3	124	372	0.8
					Total: 100:	114.5
C7+C8+C13+C19+C28	5	Ø12	4	138	552	8.9
	6	Ø12	4	135	540	4.8
	7	Ø12	4	83	332	2.9
	8	Ø6	3	94	282	0.6
					Total: 100:	14.5
					Total: 100:	72.5
C19+C35+C45	9	Ø12	4	158	632	5.6
	10	Ø12	4	155	620	5.5
	11	Ø12	4	83	332	2.9
	12	Ø6	3	94	282	0.6
					Total: 100:	16.1
					Total: 100:	48.3
					Ø16:	6.0
					Ø12:	115.7
					Ø16:	113.6
					Total:	285.3

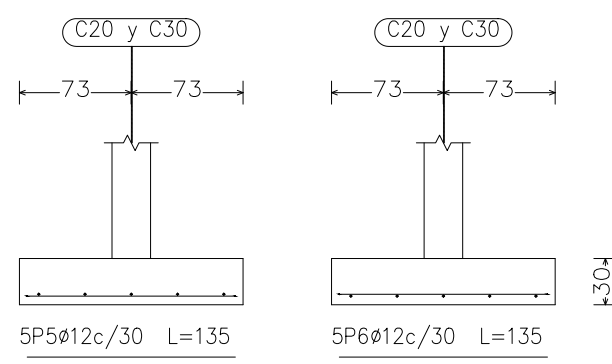


Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
C17	1	Ø16	11	257	2827	44.6
	2	Ø16	11	254	2794	44.1
	3	Ø12	6	87	522	4.6
	4	Ø6	3	94	282	0.6
	Total+10%:					103.3
C20-C30	5	Ø12	5	135	675	6.0
	6	Ø12	5	135	675	6.0
	7	Ø12	6	83	498	4.4
	8	Ø6	3	94	282	0.6
	Total+10%:					18.7
(Q2):					37.4	
Ø6:					2.1	
Ø12:					41.0	
Ø16:					97.6	
Total:					140.7	

C17

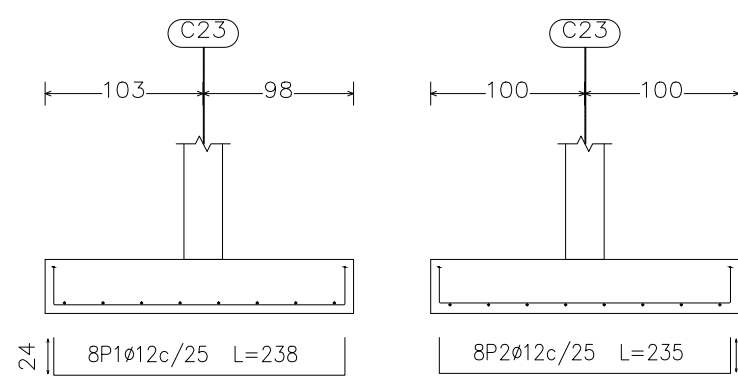


C20 y C30

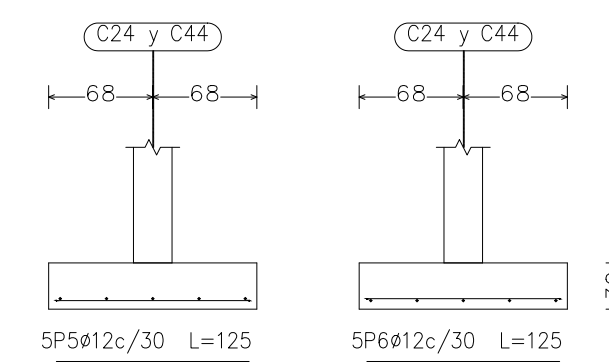


Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
C23	1	Ø12	8	238	1904	16.9
	2	Ø12	8	235	1880	16.7
	3	Ø16	4	104	416	6.6
	4	Ø6	3	94	282	0.6
Total+10%:						44.9
C24-C44	5	Ø12	5	125	625	5.5
	6	Ø12	5	125	625	5.5
	7	Ø12	4	83	332	2.9
	8	Ø6	3	94	282	0.6
Total+10%:						16.0
(x2):						32.0
C40	9	Ø12	5	198	990	8.8
	10	Ø12	5	195	975	8.7
	11	Ø12	4	88	352	3.1
	12	Ø6	3	114	456	3.8
Total+10%:						23.5
Ø6:						2.9
Ø12:						90.3
Ø16:						7.2
Total:						100.4

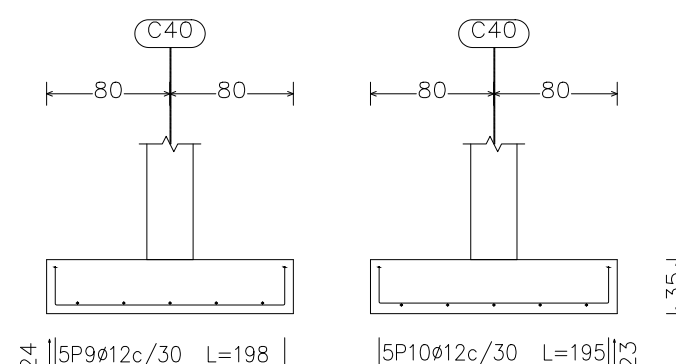
C23



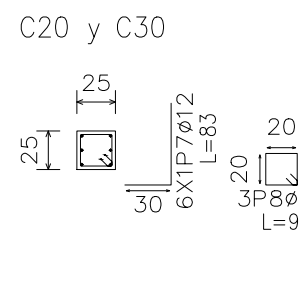
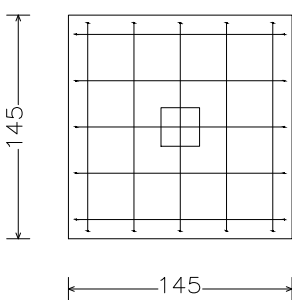
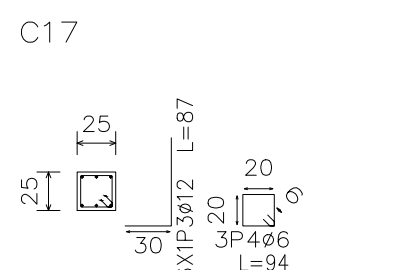
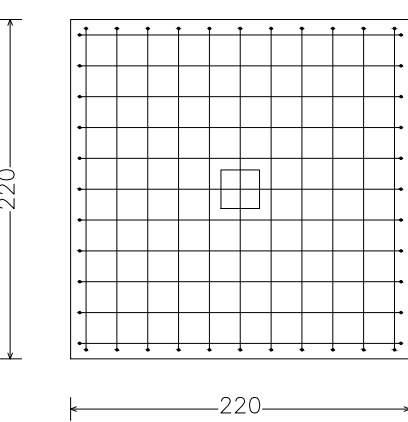
C24 y C44



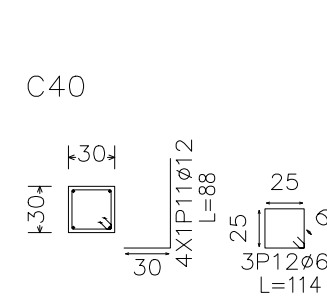
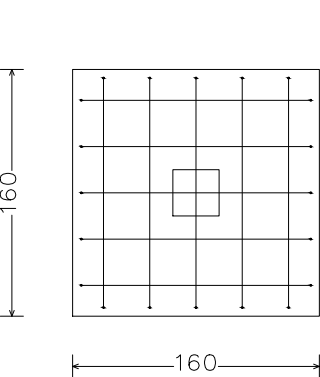
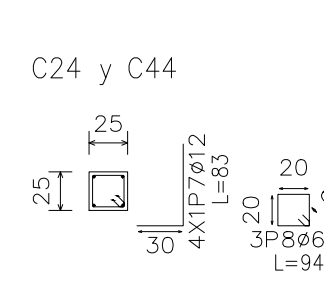
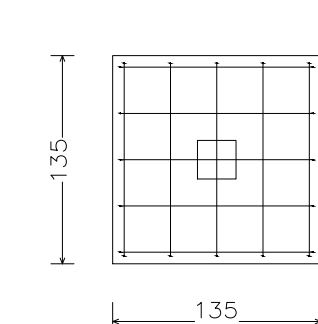
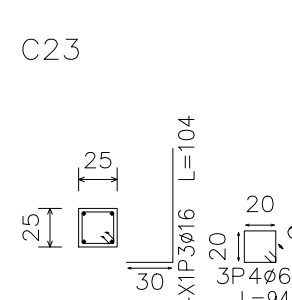
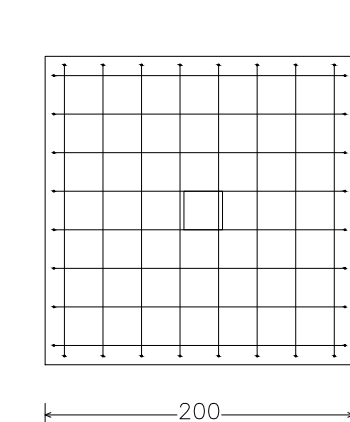
C40



Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
AH-500CN Ø6	116.4	28	
Ø12	902.9	882	
Ø16	354.3	615	1525

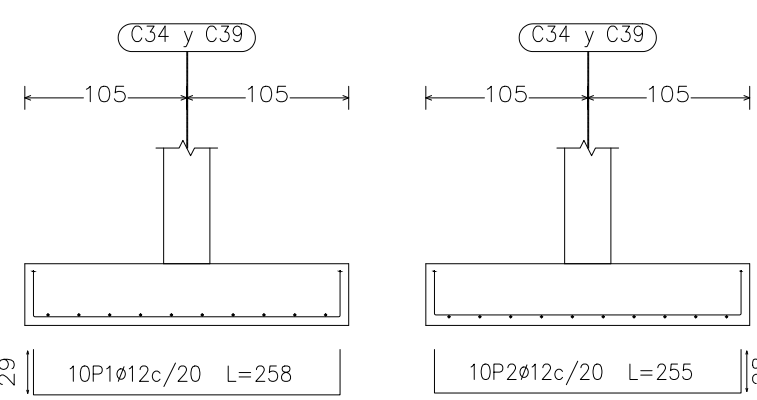


Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
AH-500CN Ø6	116.4	28	
Ø12	902.9	882	
Ø16	354.3	615	1525

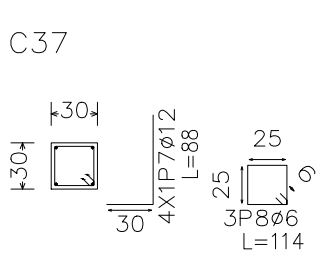
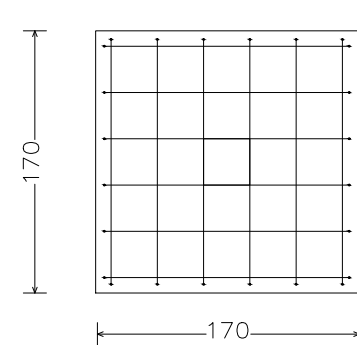
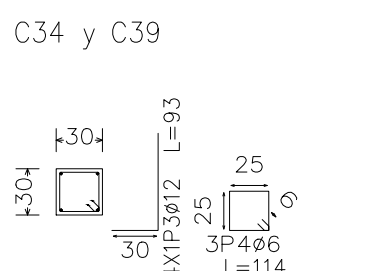
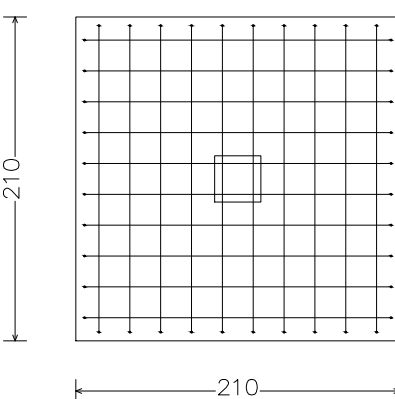
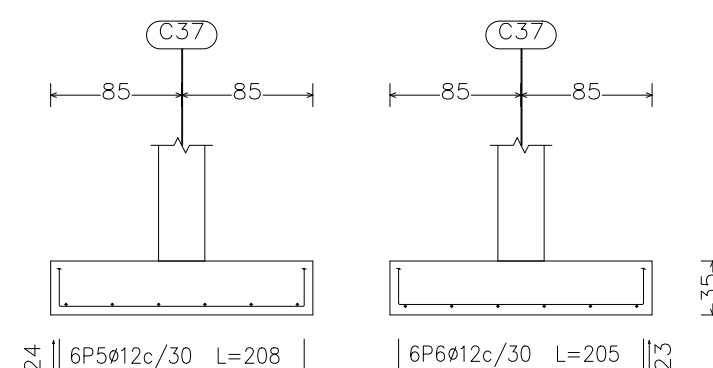


Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
C34-C39	1	Ø12	10	258	2580	22.9
	2	Ø12	10	255	2550	22.6
	3	Ø12	4	93	372	3.3
	4	Ø6	3	114	342	0.8
Total+10%:						54.6
C37	5	Ø12	6	208	1248	11.1
	6	Ø12	6	205	1230	10.9
	7	Ø12	4	88	352	3.1
	8	Ø6	3	114	342	0.8
	Total+10%:					28.5
	Total:					83.1
	Ø6:					2.7
	Ø12:					130.9
	Total:					137.7

C34 y C39



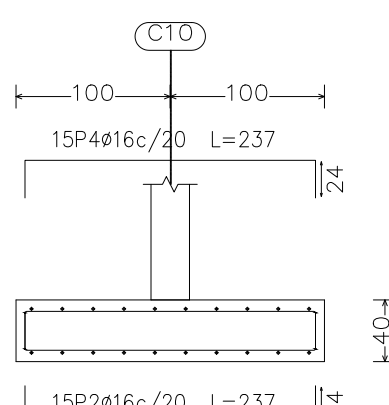
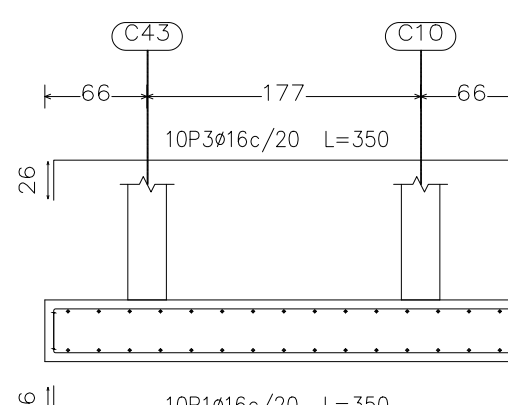
C37



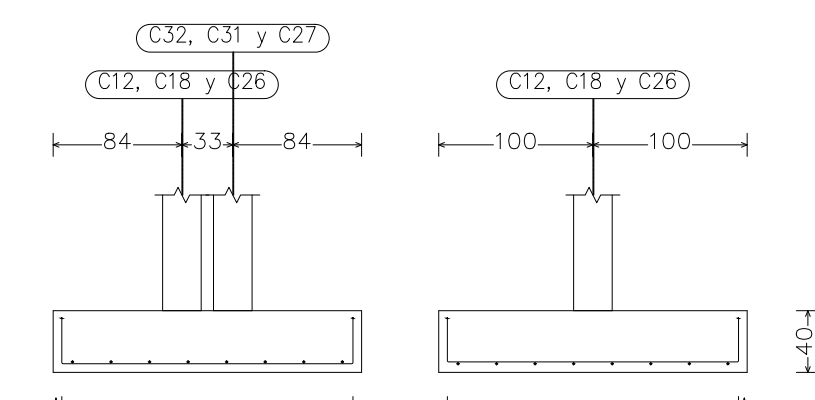
Elemento	Pos.	Diám.	No.	Long. (cm)	Total AH-500CN (kg)		
(C10-C43)	1	Ø16	10	350	3500	55.2	
	2	Ø16	15	237	3555	56.1	
	3	Ø16	10	350	3500	55.2	
	4	Ø16	15	237	3555	56.1	
	5	Ø12	4	92	368	3.3	
	6	Ø6	3	94	282	0.6	
	7	Ø12	4	92	368	3.3	
	8	Ø6	3	94	282	0.6	
Total+10%:						253.4	
(C12-C32)-(C18-C31) (C26-C27)	9	Ø12	8	248	1984	17.6	
	10	Ø12	8	245	1960	17.4	
	11	Ø12	6	93	558	5.0	
	12	Ø6	3	94	282	0.6	
	13	Ø12	4	93	372	3.3	
	14	Ø6	3	94	282	0.6	
	Total+10%:						46.0
	(x3):						147.0
Ø6:						5.5	
Ø12:						150.0	
Ø16:						244.9	
Total:						400.4	

Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
AH-500CN Ø6	116.4	28	
Ø12	902.9	882	
Ø16	354.3	615	1525

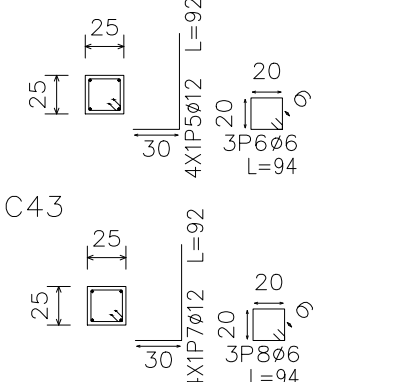
(C10-C43)



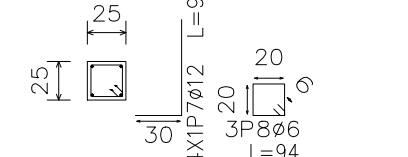
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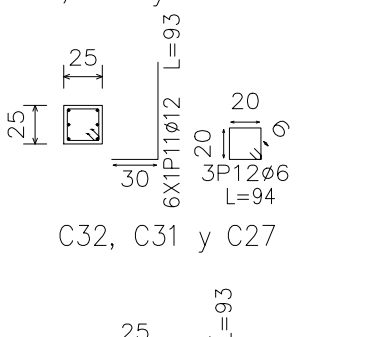
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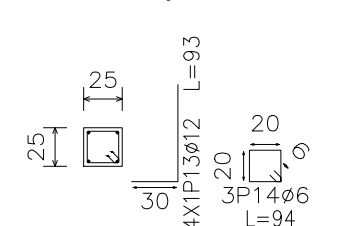
C43



C12, C18 y C26

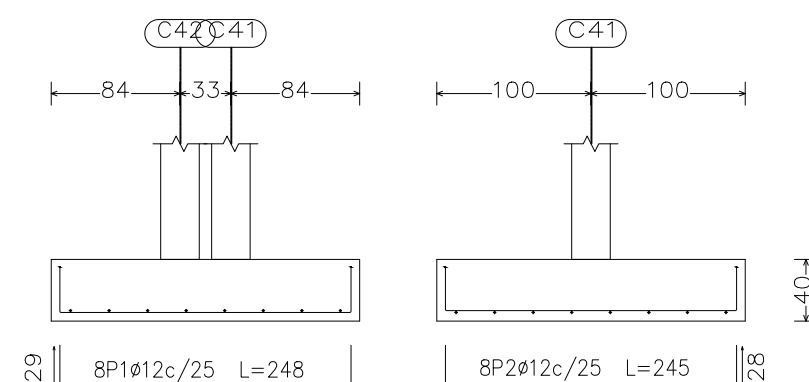


C32, C31 y C27

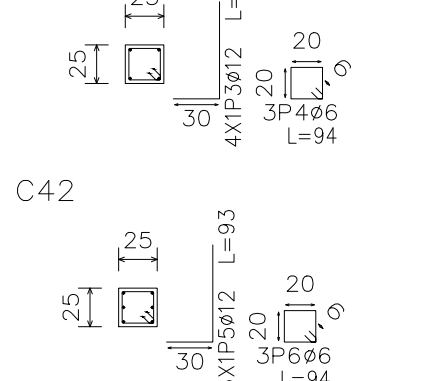


Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
(C41-C42)	1	Ø12	8	248	1984	17.6
	2	Ø12	8	245	1960	17.4
	3	Ø12	4	93	372	3.3
	4	Ø6	3	94	282	0.6
	5	Ø12	6	93	558	5.0
	6	Ø6	3	94	282	0.6
Total+10%:						49.0
Total:						49.0
Ø6:						1.4
Ø12:						47.6
Total:						49.0

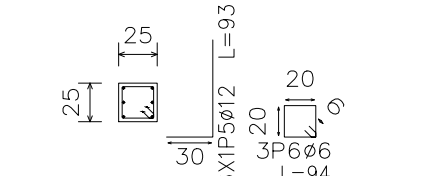
(C41-C42)



C41



C42



Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
AH-500CN Ø6	116.4	28	
Ø12	902.9	882	
Ø16	354.3	615	1525

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UNIVERSITARIO:
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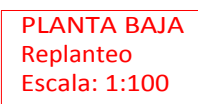
ASIGNATURA:
CIV – 502
PROYECTO DE
INGENIERÍA CIVIL II

TRIBUNAL: V°B°
Dr. Ing Alberto Benítez
Ing. Armando Almendras
Ing. Carola Sánchez

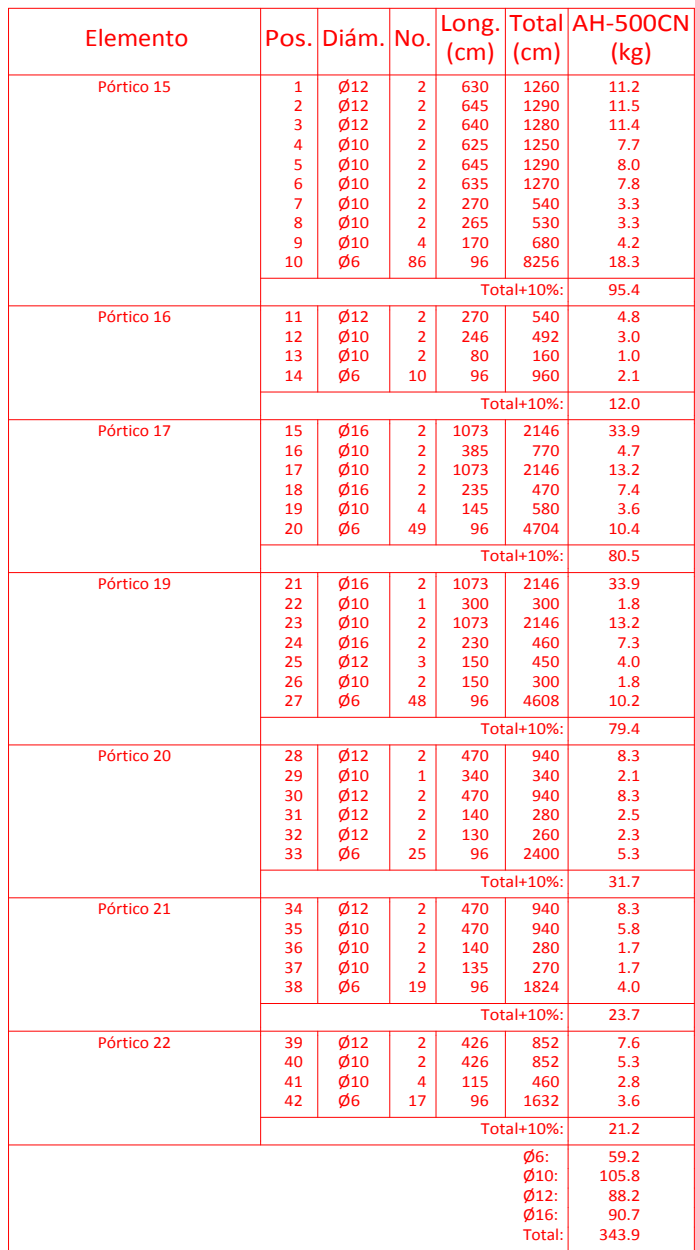
"DISEÑO ESTRUCTURAL PARA LA
CONSTRUCCIÓN DE UNA ESTACIÓN
DE BOMBEROS PARA EL MUNICIPIO
DE ENTRE RÍOS"

CARACTER:
PLANOS DETALLE DE ZAPATA

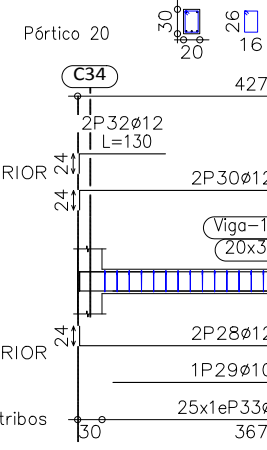
ESCALA: 1/100
FECHA: FEBRERO
DE 2021
LÁMINA: 5/15



Elemento	Pos.	Diám. no.	Long. (m)	Total (cm)	AH-500CN (kg)	
Pórtico 1	1	Ø12	2	735	1470	13.1
	2	Ø12	2	550	1100	9.9
	3	Ø10	3	300	300	1.8
	4	Ø10	2	735	1470	9.1
	5	Ø10	2	555	1110	6.8
	6	Ø12	2	220	440	3.9
	7	Ø10	2	180	360	3.1
	8	Ø10	2	155	310	1.9
	9	Ø12	2	100	200	1.2
	10	Ø6	56	106	5936	13.2
Total-10%:					69.4	
Pórtico 2	11	Ø12	2	369	738	4.6
	12	Ø10	2	369	738	4.6
	13	Ø10	2	105	420	2.6
	14	Ø6	34	96	1344	3.0
Total-10%:					18.5	
Pórtico 3-Pórtico 9	15	Ø12	2	571	1142	10.1
	16	Ø12	2	571	1142	10.1
	17	Ø10	2	150	600	3.7
	18	Ø6	24	96	1440	3.4
	Total-10%:					28.5
Pórtico 4	19	Ø12	2	568	1136	10.1
	20	Ø10	2	568	1136	7.0
	21	Ø10	2	155	310	1.9
	22	Ø2	145	96	1392	1.8
	23	Ø6	24	96	2304	5.1
	Total-10%:					28.5
Pórtico 5	24	Ø12	2	630	1260	11.2
	25	Ø12	4	645	2580	22.9
	26	Ø12	2	360	720	6.4
	27	Ø10	2	625	1250	7.7
	28	Ø10	2	640	1280	8.0
	29	Ø10	2	640	1280	7.9
	30	Ø16	2	275	550	8.7
	31	Ø10	2	260	520	3.3
	32	Ø12	3	170	510	4.5
	33	Ø10	2	170	340	2.1
34	Ø6	86	96	8256	18.3	
Total-10%:					113.1	
Pórtico 6	35	Ø12	2	569	1138	10.1
	36	Ø10	2	569	1138	7.0
	37	Ø10	2	145	290	5.3
	38	Ø6	25	96	2400	5.3
Total-10%:					28.6	
Pórtico 7	39	Ø12	2	341	682	6.1
	40	Ø10	2	341	682	4.2
	41	Ø10	2	95	190	1.2
	42	Ø6	13	96	1248	2.8
Total-10%:					15.7	
Grce: 63.5						
Ø10: 118.2						
Ø12: 137.5						
Ø16: 9.6						
Total: 328.8						



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



ESCALA:	FECHA:	LÁMINA:
1/100	FEBRERO DE 2021	6/15

