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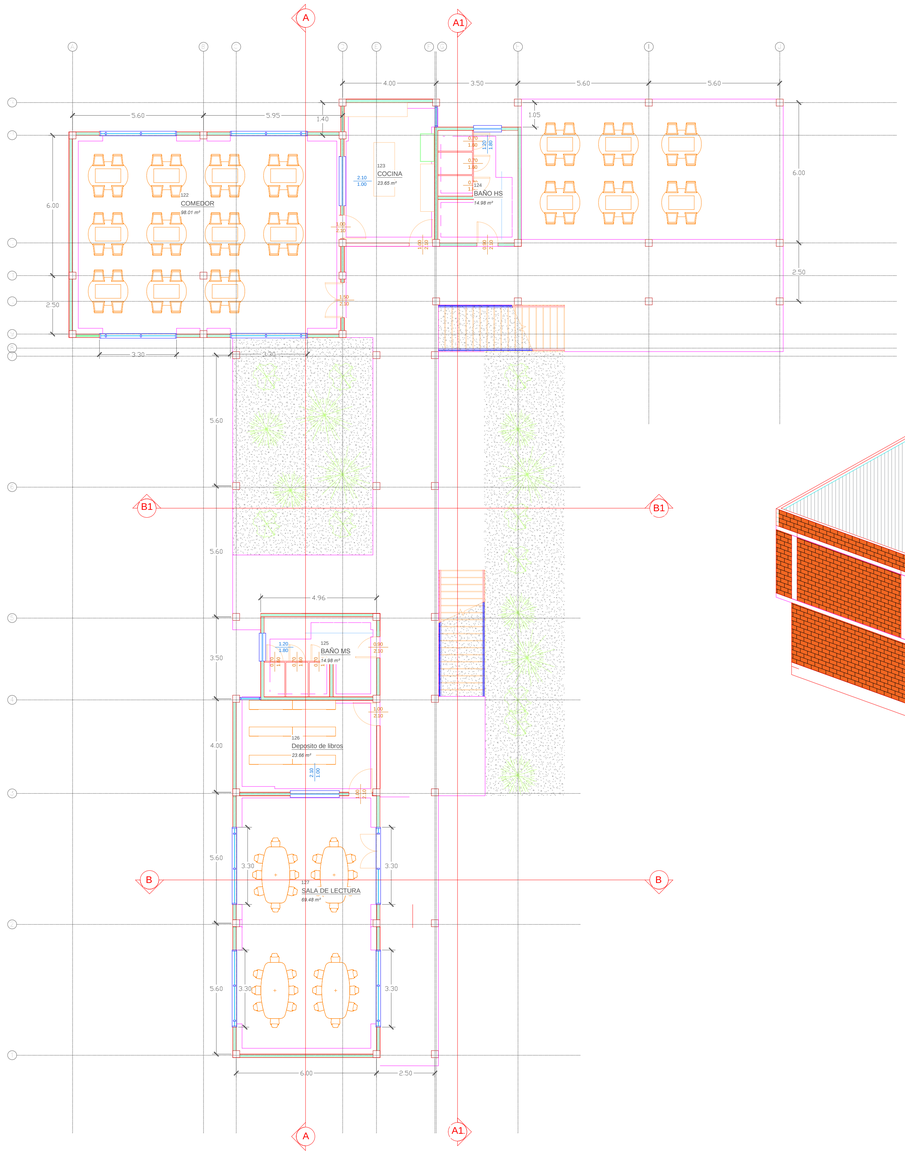
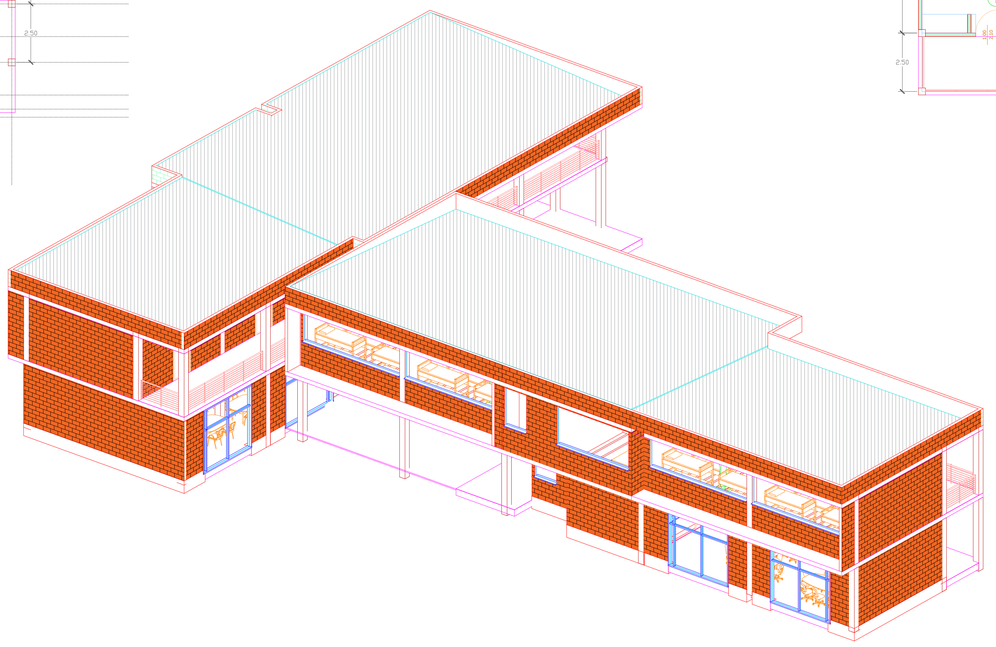
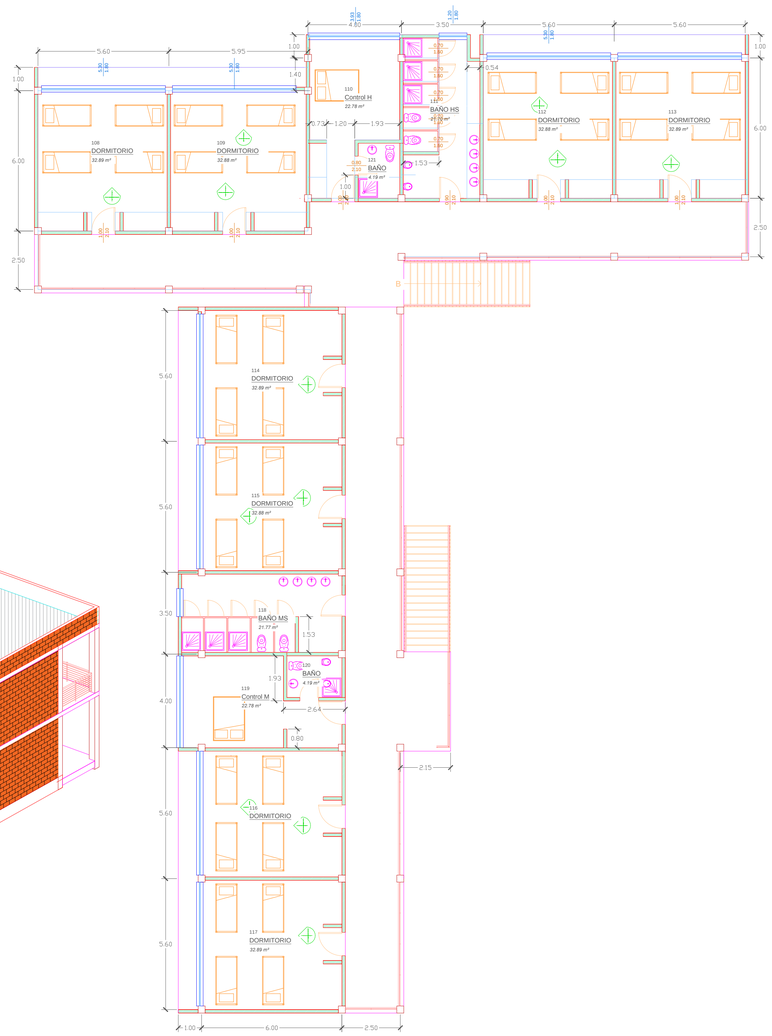
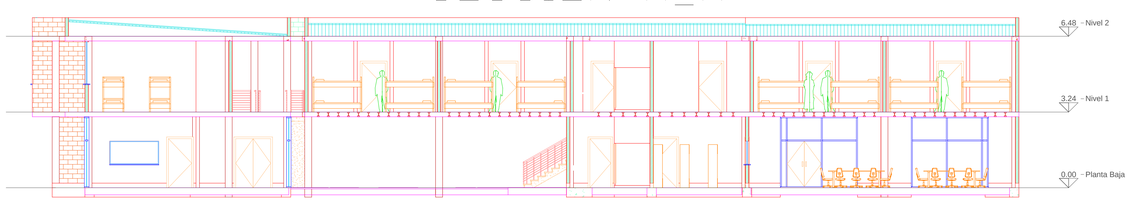




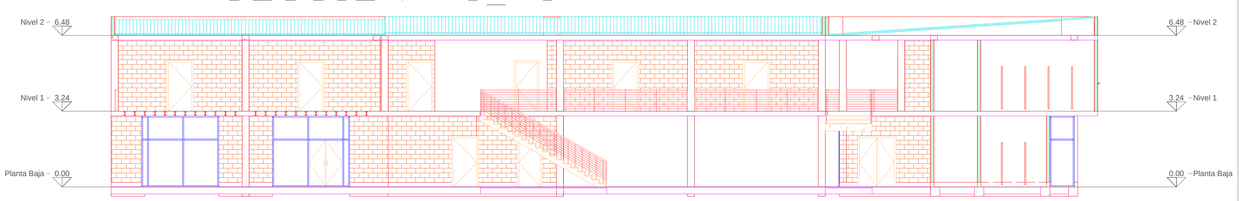
PLANTA ALTA (PRIMER PISO)



SECCION A_A



SECCION A1_A1



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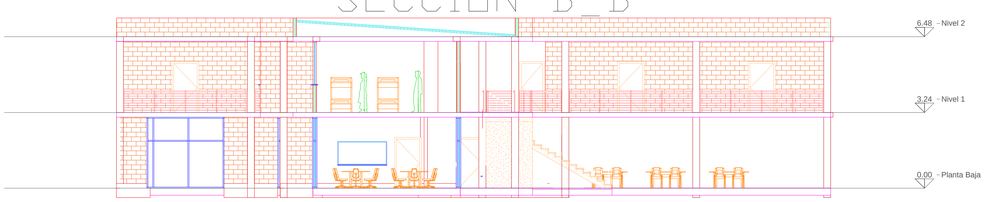

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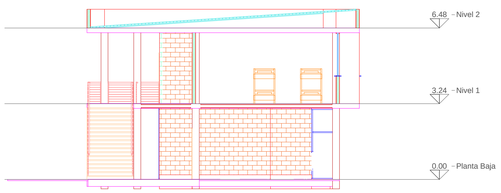
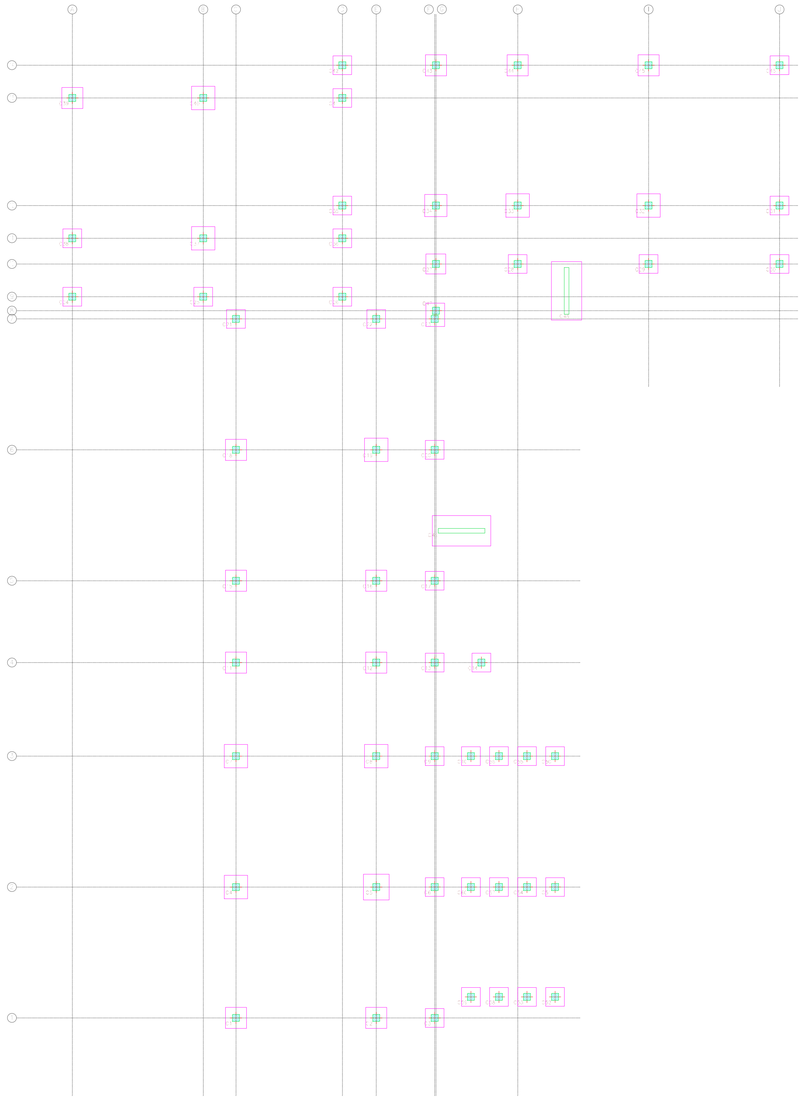
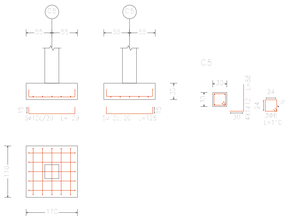
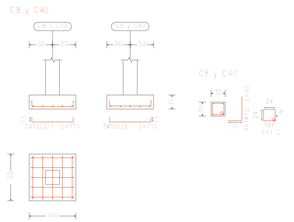
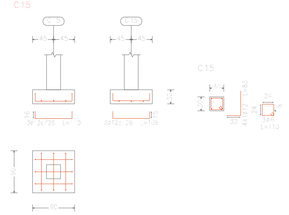


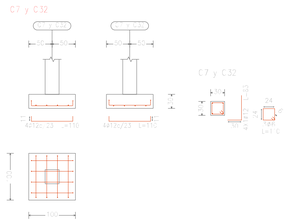
UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO			
PROYECTO DE INGENIERIA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA		
CARACTER:	PLANO DE DISEÑO ARQUITECTONICO		PLANO 1/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: 1 :100	FECHA: TJA. 2/JULIO/2021	

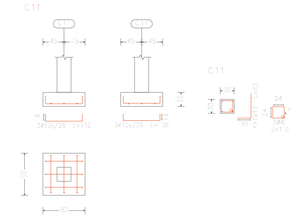


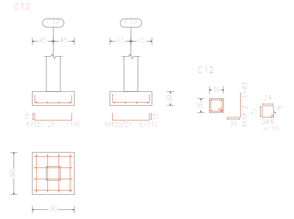


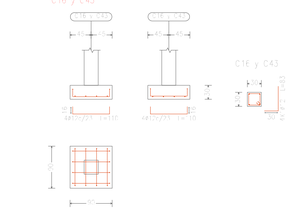


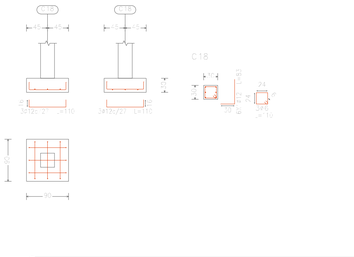


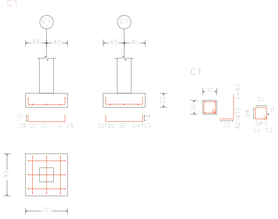


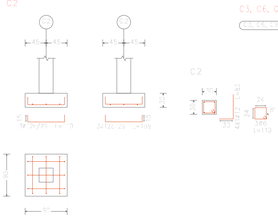


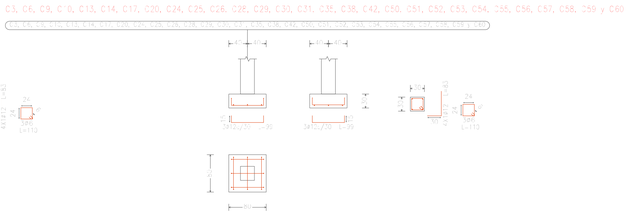


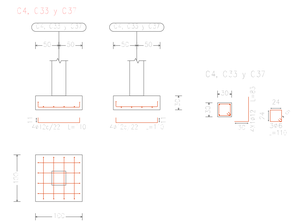




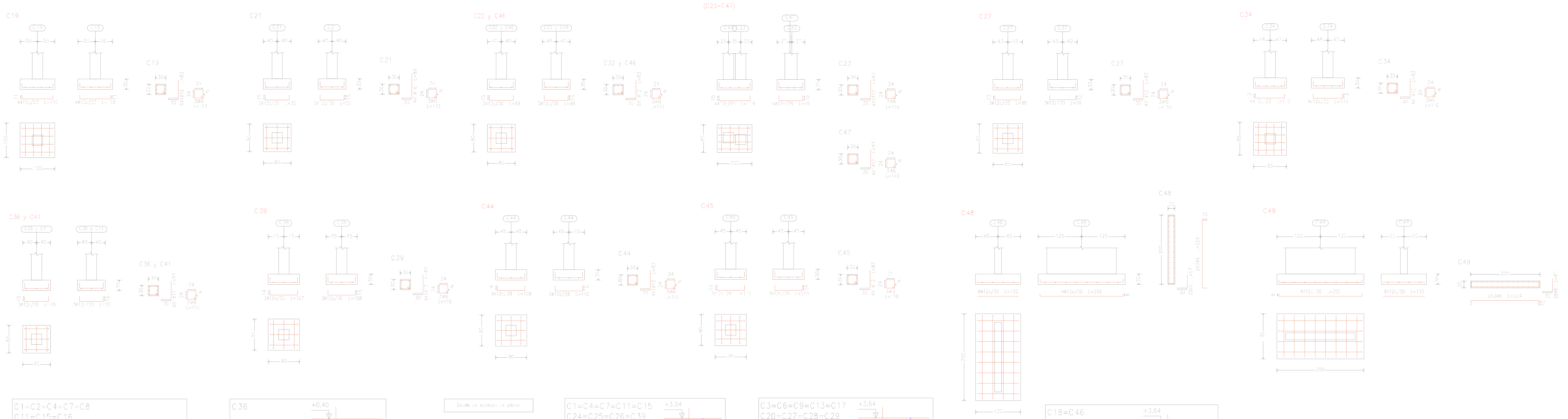


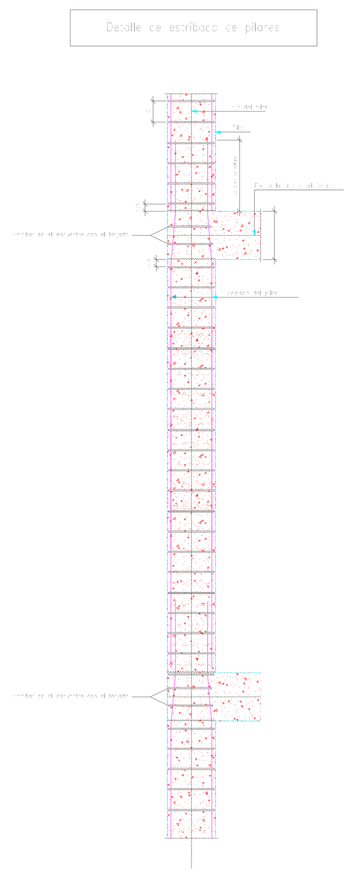






UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO		
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA	
CARACTER: ARMADURA Y GEOMETRIA DE ZAPATAS		PLANO 2/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: 1 :100	FECHA: TJA. 2/JULIO/2021





C1=C2=C4=C7=C8 C11=C15=C16 C24=C25=C26=C33 C35=C38=C39 C40=C41=C42=C43 C44

+0.40 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 22 (cm)
1	ø12	4	275	1100	24200
2	ø12	4	83	332	7304
3	ø6	17	112	1904	41888

C36

+0.40 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	6	275	1650
2	ø12	6	83	498
3	ø6	17	112	1904

C5

+0.40 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	275	1100
2	ø12	4	88	352
3	ø6	17	112	1904

C1=C2=C3=C4=C5=C6 C7=C8=C9=C11=C12 C13=C15=C16=C17 C18=C19=C20=C21 C22=C23=C24=C25 C26=C27=C28=C29 C30=C31=C32=C33 C34=C35=C37=C38 C39=C40=C41=C42 C43=C44=C45=C46

+6.88 / +3.64

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 43 (cm)
1	ø12	4	322	1288	55384
2	ø6	23	112	2576	110768

C1=C4=C7=C11=C15 C24=C25=C26=C39 C40=C41=C42=C43 C44

+3.64 / +0.40

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 14 (cm)
1	ø12	4	355	1420	19880
2	ø6	23	112	2576	36064

C3=C6=C9=C13=C17 C20=C27=C28=C29 C30=C45

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 11 (cm)
1	ø12	4	595	2380	26180
2	ø12	4	83	332	3652
3	ø6	39	112	4368	48048

C18=C46

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	ø12	6	595	3570	7140
2	ø12	6	83	498	996
3	ø6	39	112	4368	8736

C2=C5=C8=C12=C16 C33=C34=C35=C38

+3.64 / +0.40

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 9 (cm)
1	ø12	4	355	1420	12780
2	ø6	23	112	2576	23184

C22

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	6	595	3570
2	ø12	6	83	408
3	ø6	39	112	4368

C10=C14

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	ø12	4	562	2248	4496
2	ø12	4	83	332	664
3	ø6	39	112	4368	8736

C19=C31=C32=C37

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 4 (cm)
1	ø12	4	595	2380	9520
2	ø12	4	83	332	1328
3	ø6	39	112	4368	17472

C36

+6.88 / +3.64

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	6	322	1932
2	ø6	23	112	2576

C21

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø16	4	615	2460
2	ø10	4	99	390
3	ø6	30	113	3390

C50

+0.39 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	236	944
2	ø12	4	83	332
3	ø6	17	112	1904

C51

+0.85 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	282	1128
2	ø12	4	83	332
3	ø6	20	112	2240

C54

+1.60 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	357	1428
2	ø12	4	83	332
3	ø6	25	112	2800

C56

+2.04 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	402	1608
2	ø12	4	83	332
3	ø6	28	112	3136

C52

+1.24 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	322	1288
2	ø12	4	83	332
3	ø6	23	112	2576

C53

+1.24 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	322	1288
2	ø12	4	83	332
3	ø6	23	112	2576

C55

+2.04 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	402	1608
2	ø12	4	83	332
3	ø6	28	112	3136

C12=C34

+6.88 / +3.64

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	ø12	4	355	1420	2840
2	ø6	23	112	2576	5152

C57

+2.47 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	444	1776
2	ø12	4	83	332
3	ø6	31	112	3472

C58

+2.84 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	482	1928
2	ø12	4	83	332
3	ø6	34	112	3808

C23

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	595	2380
2	ø12	4	88	352
3	ø6	39	112	4368

C47

+3.64 / −2.00

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	ø12	4	562	2248
2	ø12	4	88	352
3	ø6	39	112	4368

UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO

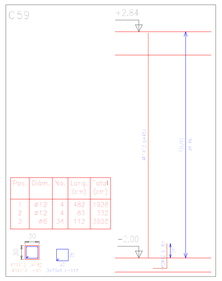
PROYECTO DE INGENIERÍA CIVIL II CIV - 502

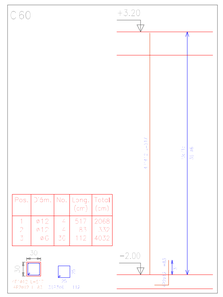
PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA

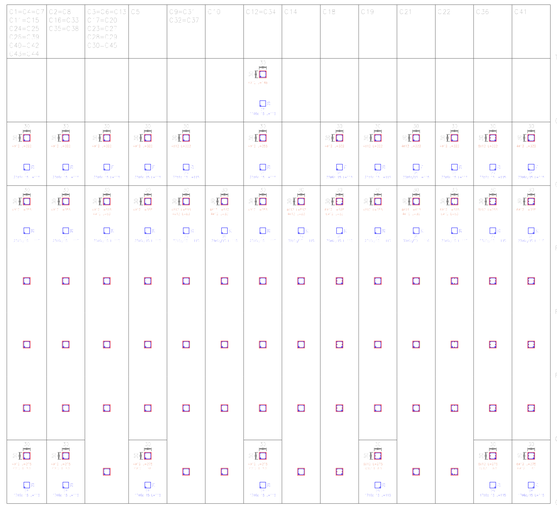
CARACTER: ARMADURA Y GEOMETRIA PARA ZAPATAS Y COLUMNAS

PLANO 3/12

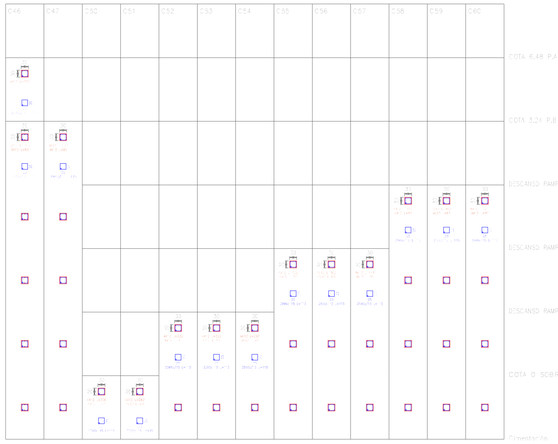
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO | ESCALA: 1 :100 | FECHA: TJA. 2/JULIO/2021



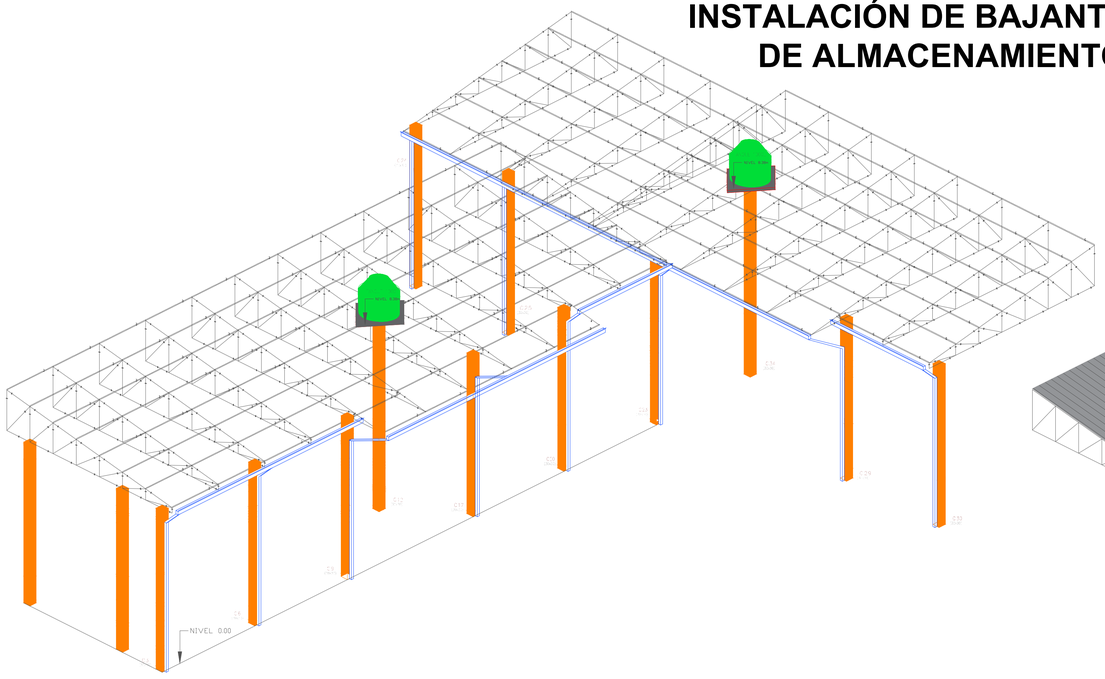


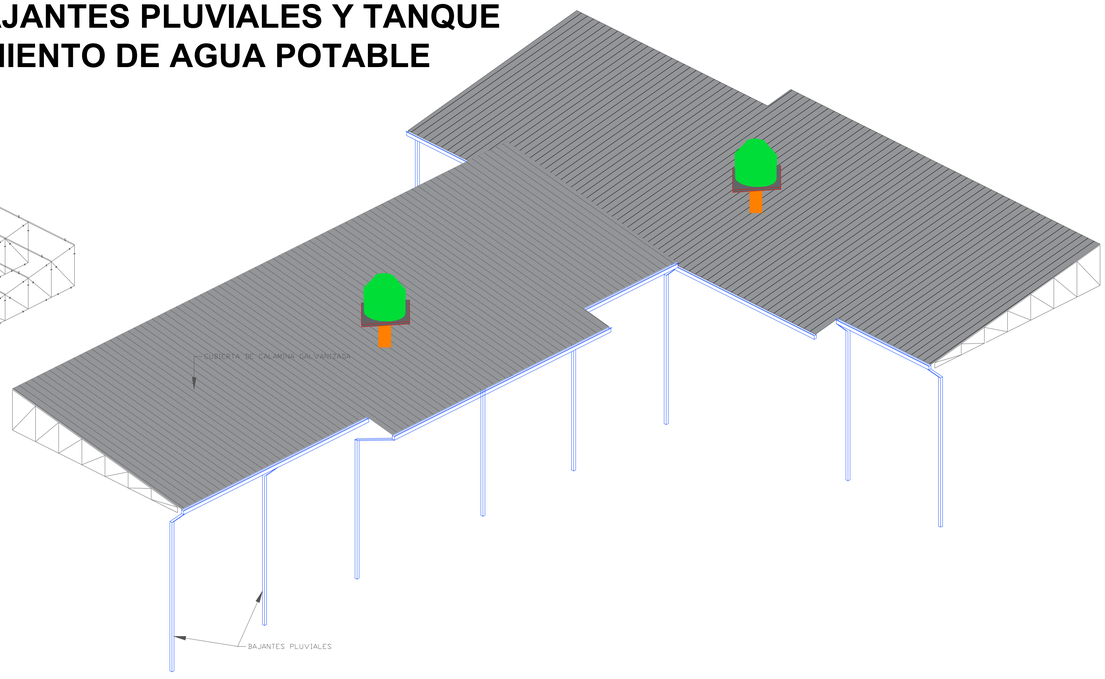


Cuadro de pilares
Hormigón: H-21 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

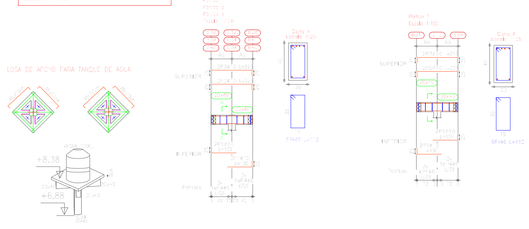


INSTALACIÓN DE BAJANTES PLUVIALES Y TANQUE DE ALMACENAMIENTO DE AGUA POTABLE

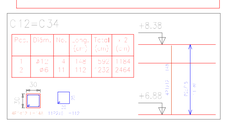




TANQUE DE AGUA
Hormigón: H-21 , Control Normal
Acero de Refuerzo: AH-500 , Control Normal
Escala: 1:50

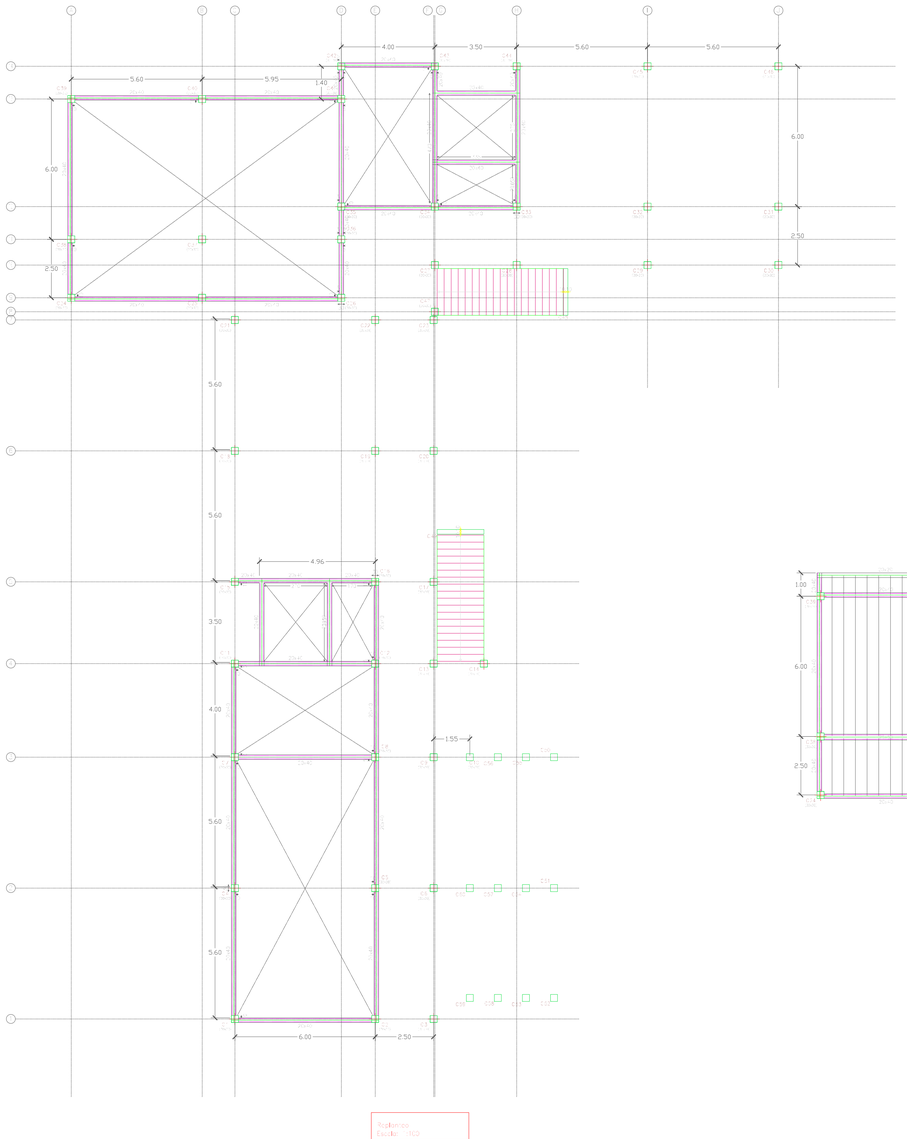


Pilares que terminan en TANQUE
Hormigón: H-21 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:50

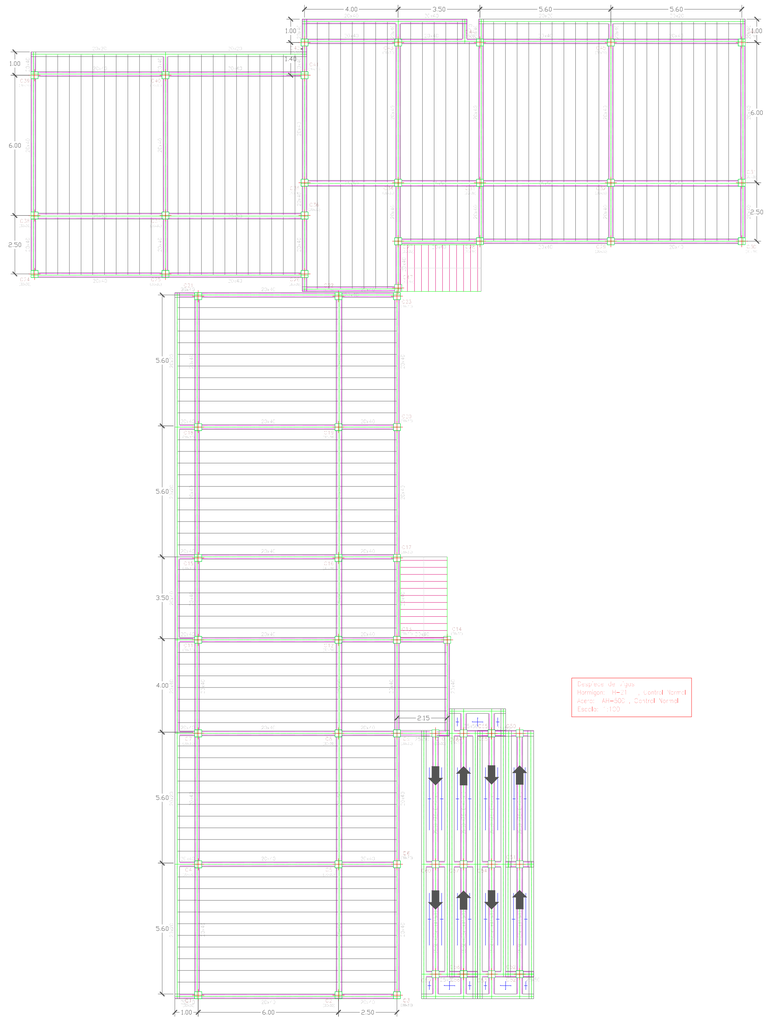


UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO		
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA	
CARACTER: INSTALACIÓN DE BAJANTES PLUVIALES, DISPOSICIÓN DE TANQUE ELEVADO		PLANO 4/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: 1:100	FECHA: TJA. 2/JULIO/2021

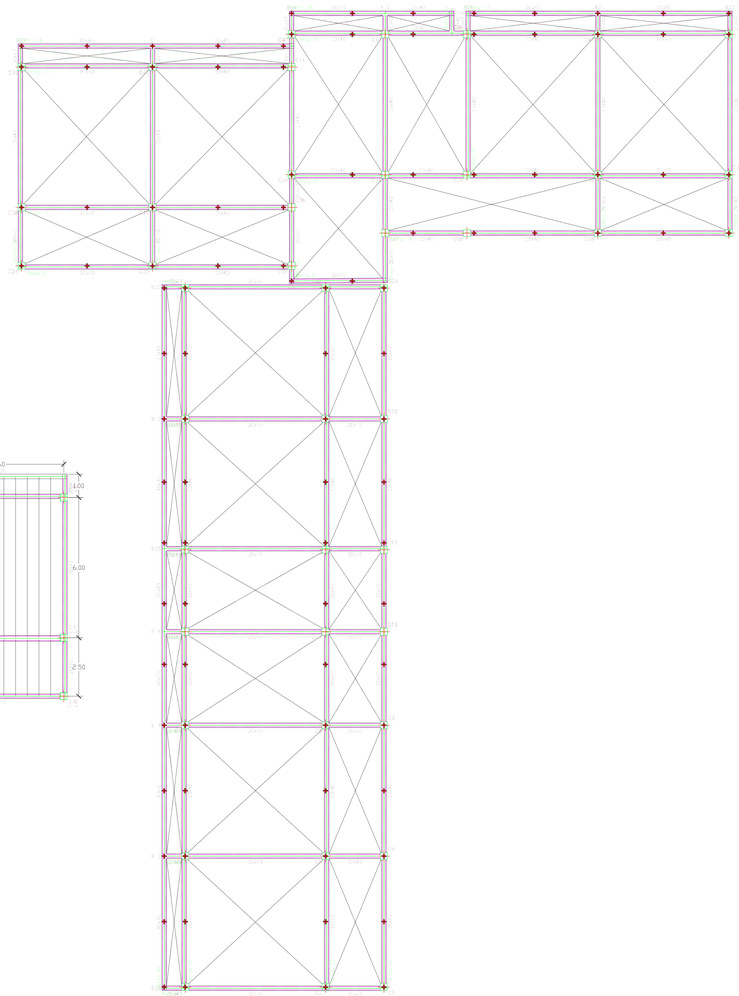
PLANTA BAJA NIVEL 0.00



PRIMER PISO NIVEL 3.24 m

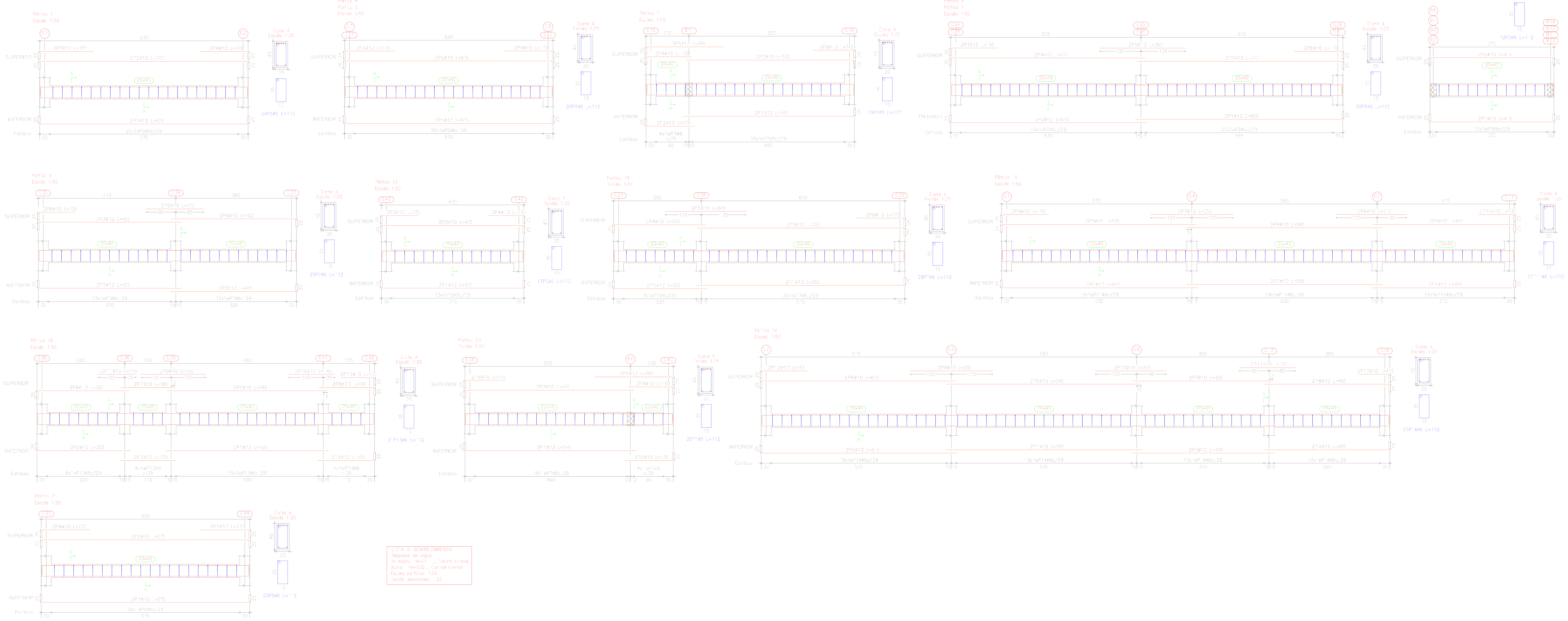


PRIMER PISO NIVEL 6.48 m

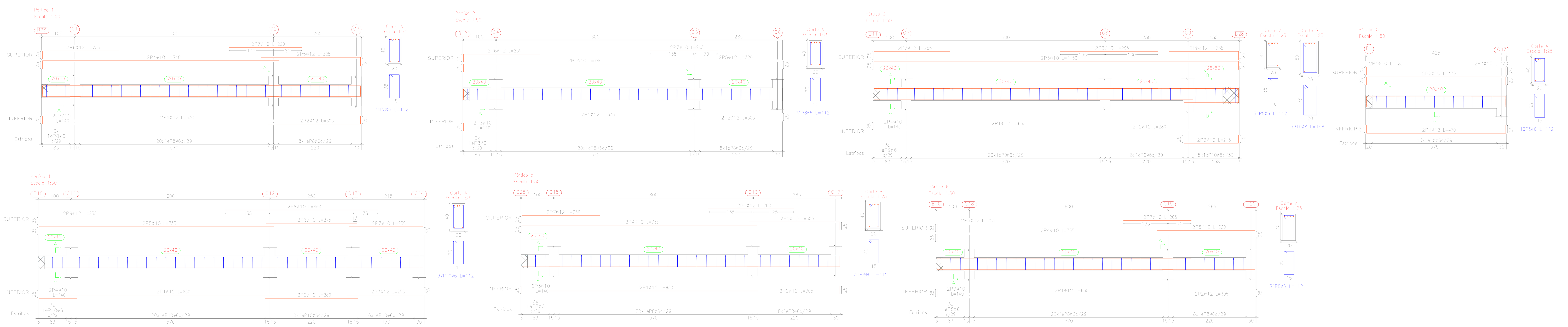


UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO		
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA	
CARACTER: PLANO DE REPLANTEO DE VIGAS		PLANO 5/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: 1 : 100	FECHA: TJA. 2/JULIO/2021

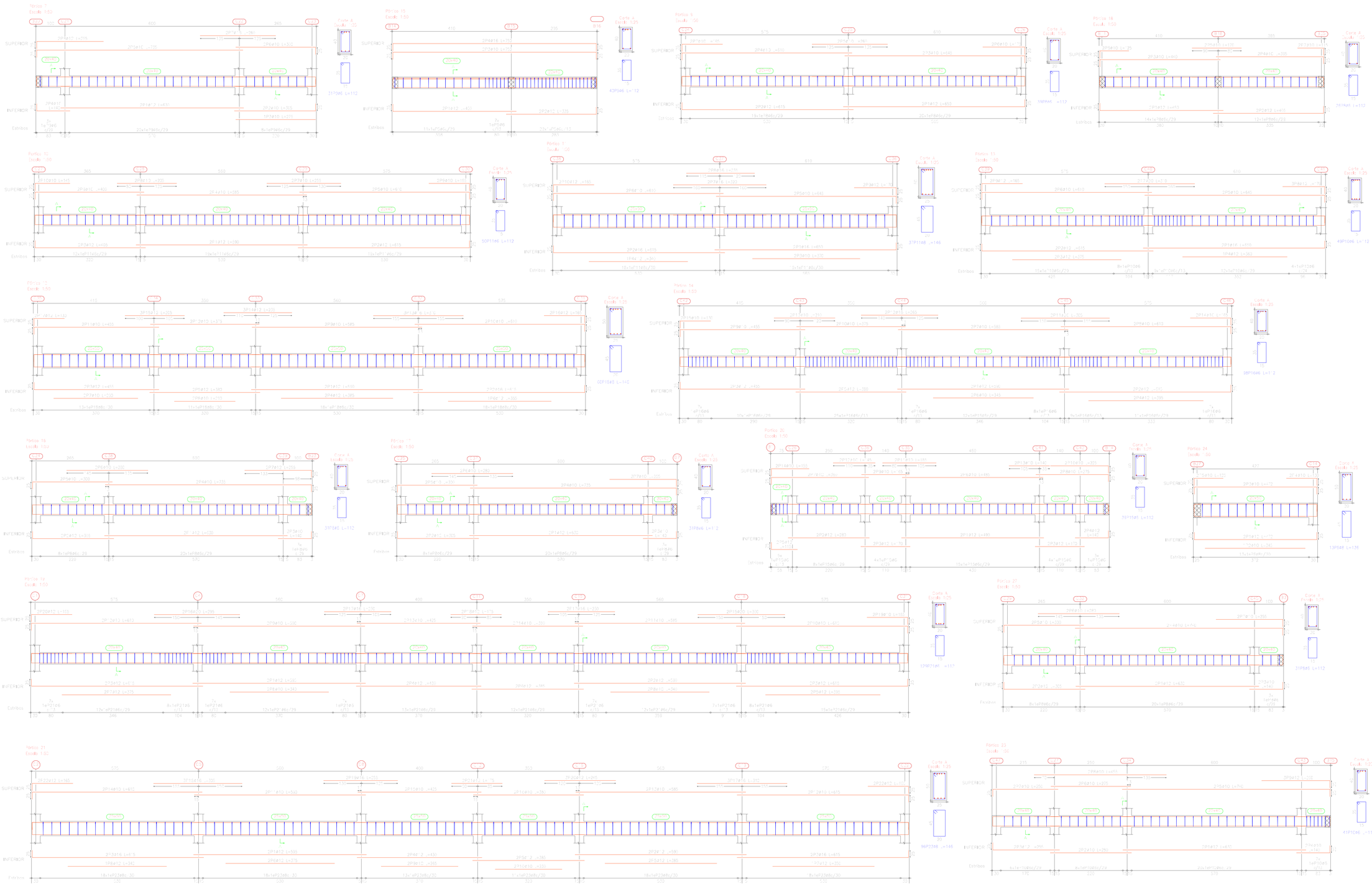
VIGAS DE SOBRECIMIENTO NIVEL 0.00 m



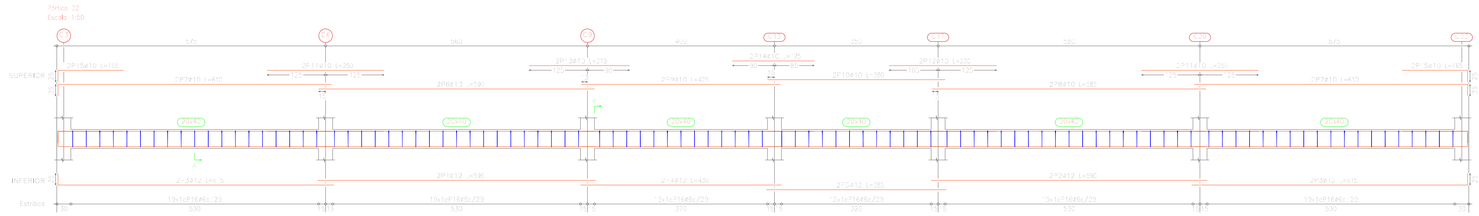
VIGAS DE ENCADENADO NIVEL 3.24 m

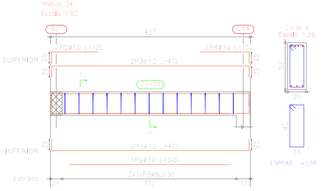


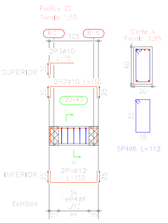
UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO			
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA		
CARACTER:	DISPOSICIÓN DE ARMADURA PARA VIGAS		PLANO 6/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: INDICADA	FECHA: TJA. 2/JULIO/2021	

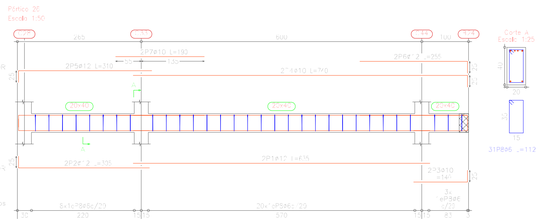


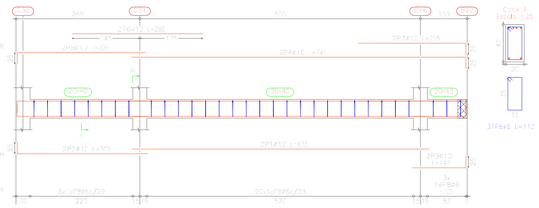
UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO	
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA
CARACTER: DISPOSICIÓN DE ARMADURA PARA VIGAS	PLANO 7/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: INDICADA — FECHA: TJA. 2/JULIO/2021



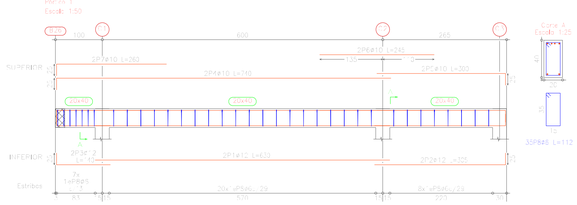


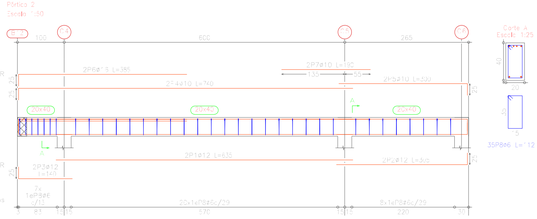


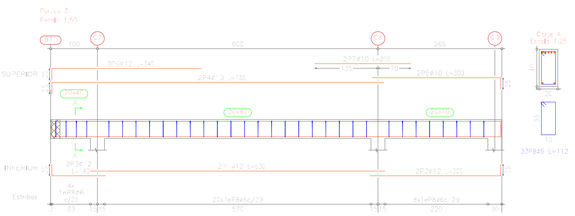


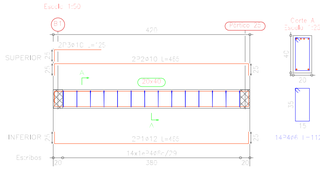


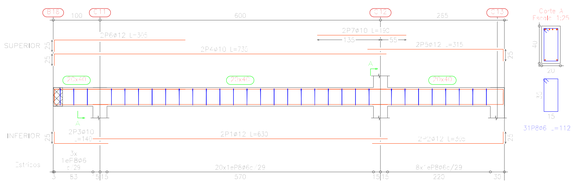
VIGAS DE ENCADENADO NIVEL 6.48 m

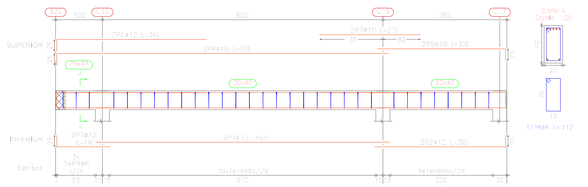


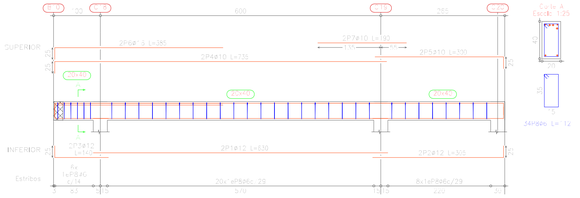


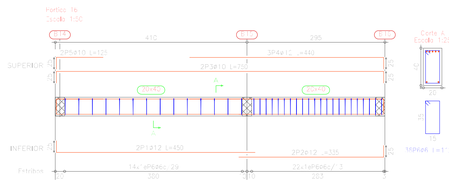


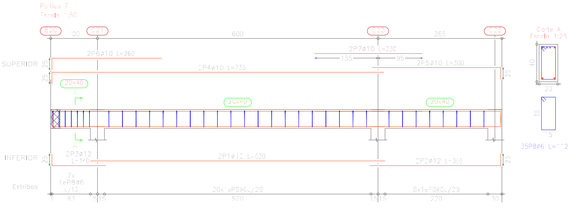


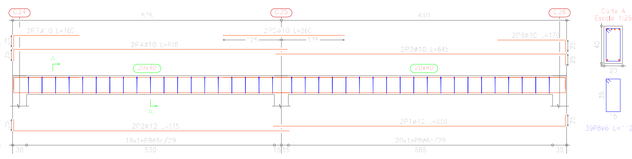


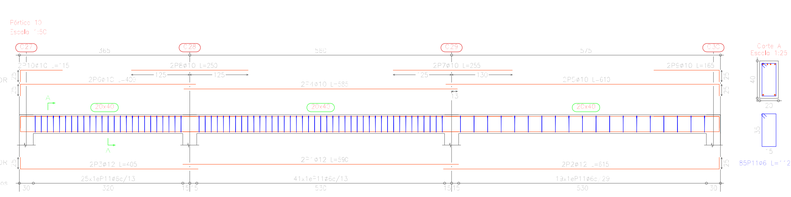


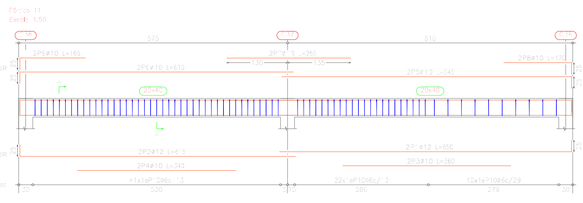


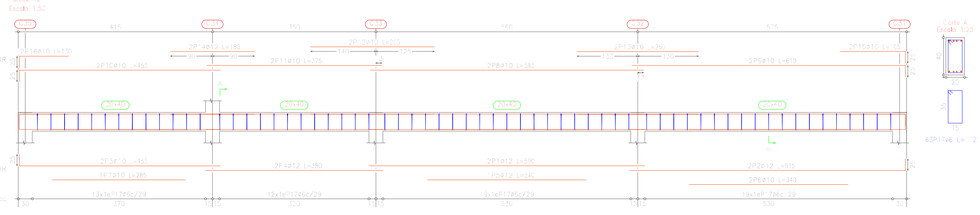






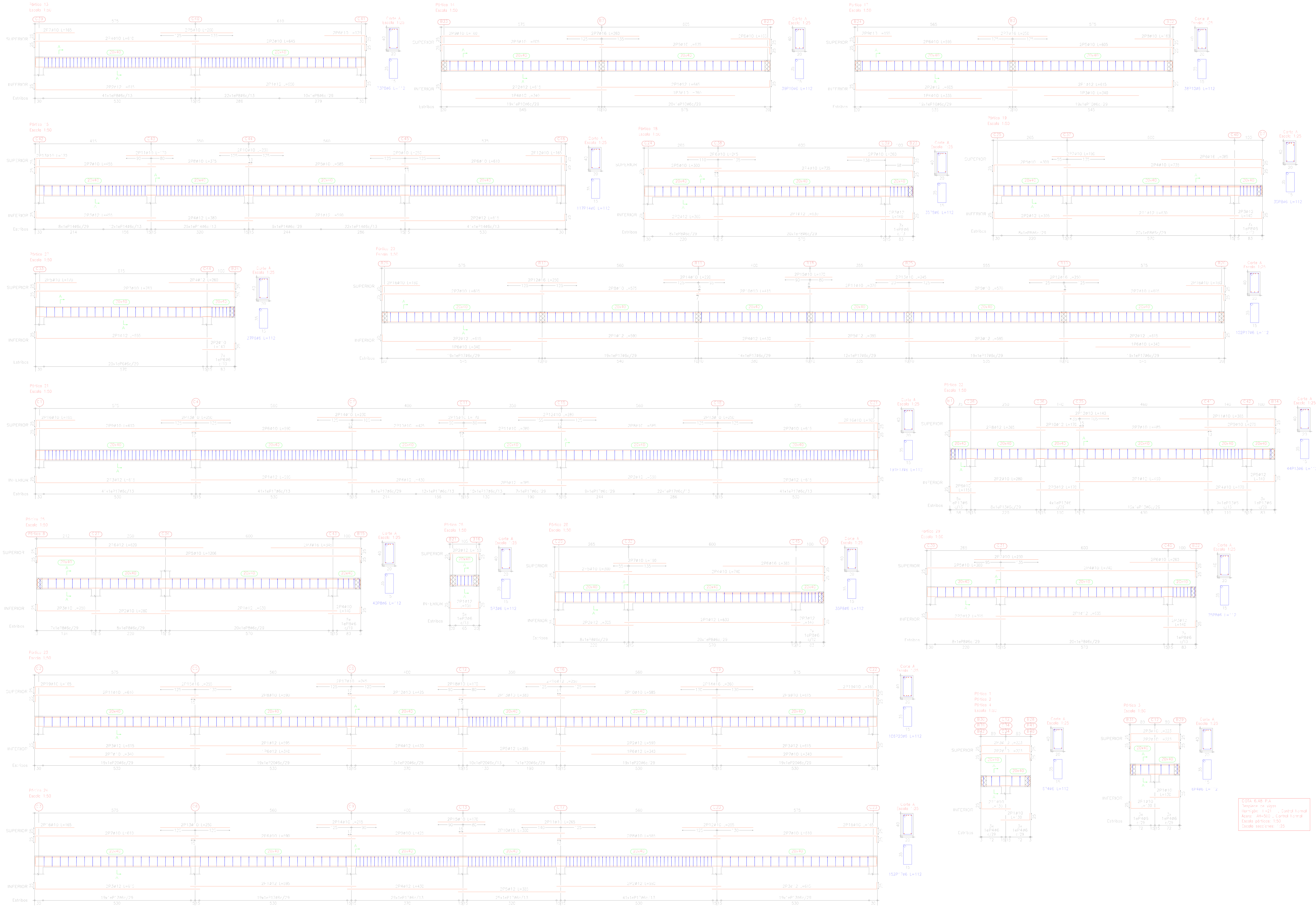






UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO

PROYECTO DE INGENIERIA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA
CARACTER: DISPOSICIÓN DE ARMADURA PARA VIGAS	PLANO 8/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: INDICADA / FECHA: T.IA. 2/JULIO/2021

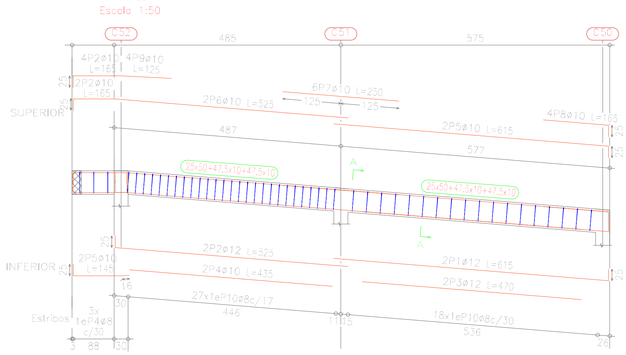


UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO

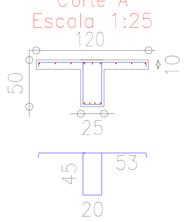
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA
CARACTER: DISPOSICIÓN DE ARMADURA PARA VIGAS	PLANO 9/12

EJECUTÓ: UNIV. VICENTE COLQUE ALBARO | ESCALA: INDICADA | FECHA: TJA. 2/JULIO/2021

DISPOSICIÓN DE ARMADURA EN VIGAS T Y VIGAS RECTANGULARES PARA RAMPA



Corte A
Escala 1:25



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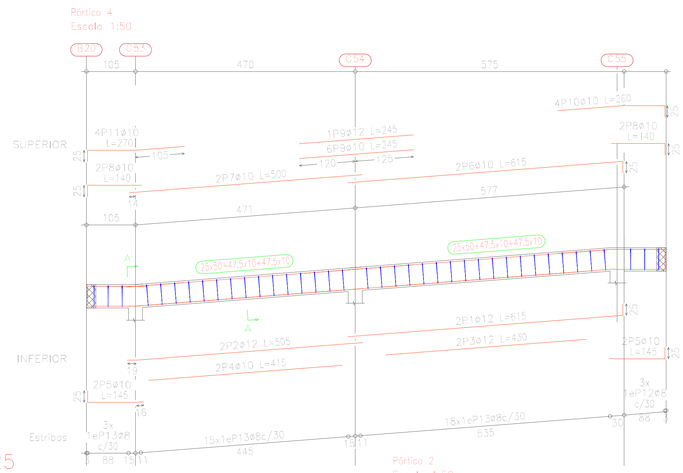
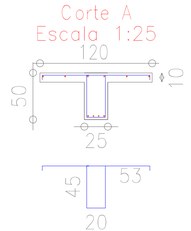


Corte A
Escala 1:25



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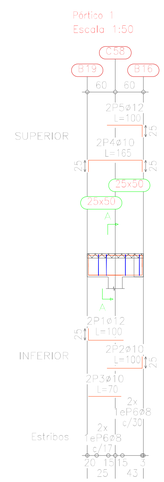
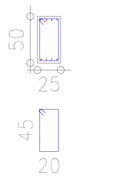
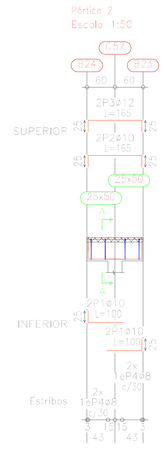


Corte A
Escala 1:25



4P6ø8 L=146



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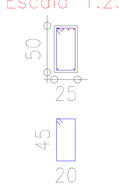
Escala 1:25



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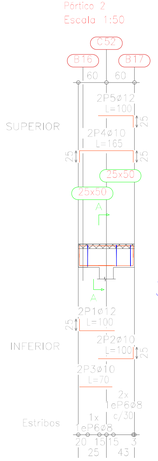

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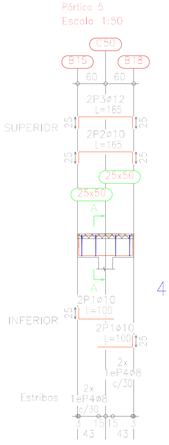
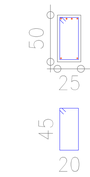


Corte A
Escala 1:25



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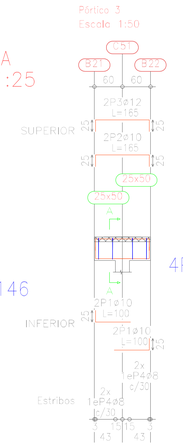
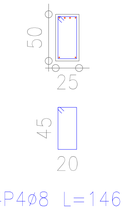


Corte A
Escala 1:25



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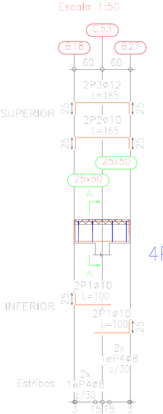

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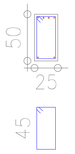

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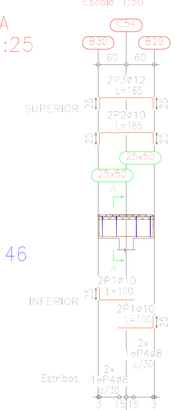
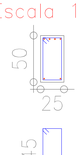


Corte A
Escala 1:25



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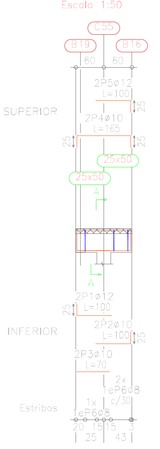
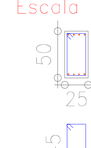


Corte A
Escala 1:25



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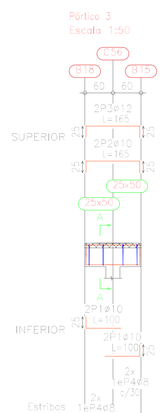

Corte A
Escala 1:25

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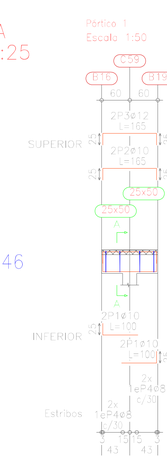
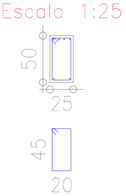


Corte A
Escala 1:25



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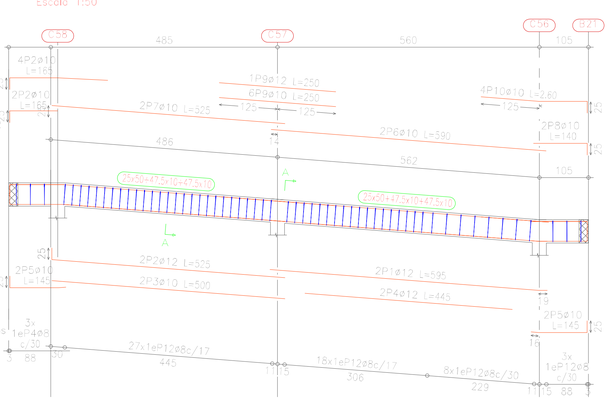
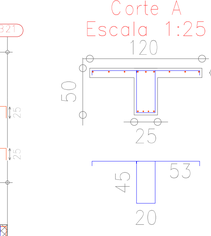
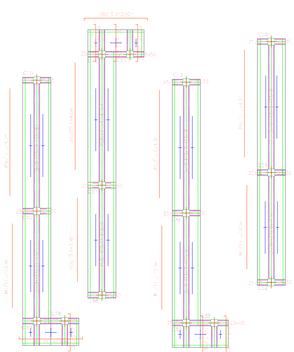
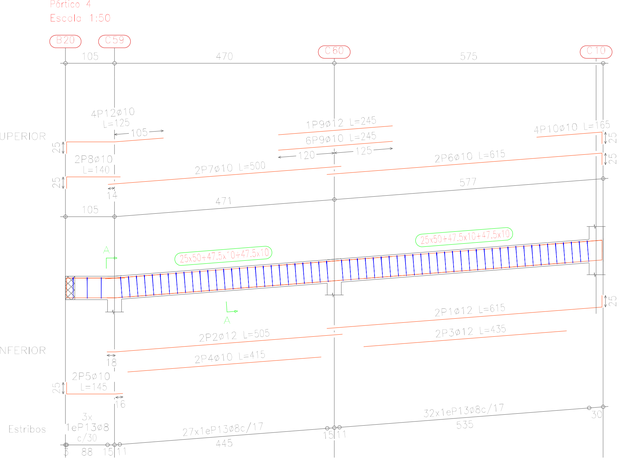


Corte A
Escala 1:25

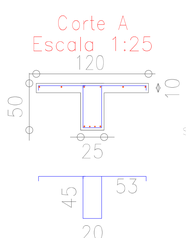


56P12ø8 L=146

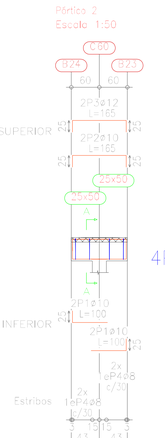




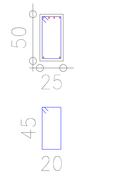
Corte A
Escala 1:25



62P13ø8 L=146



Corte A
Escala 1:25



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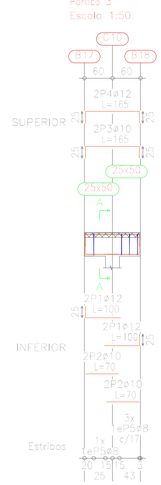
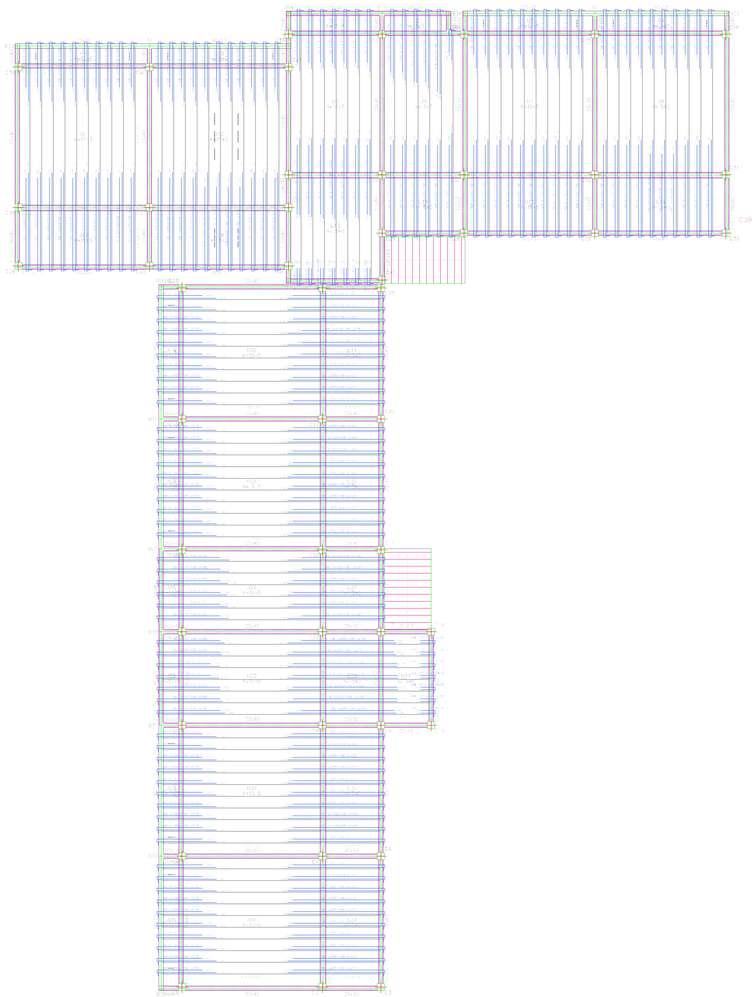


Corte A
Escala 1:25

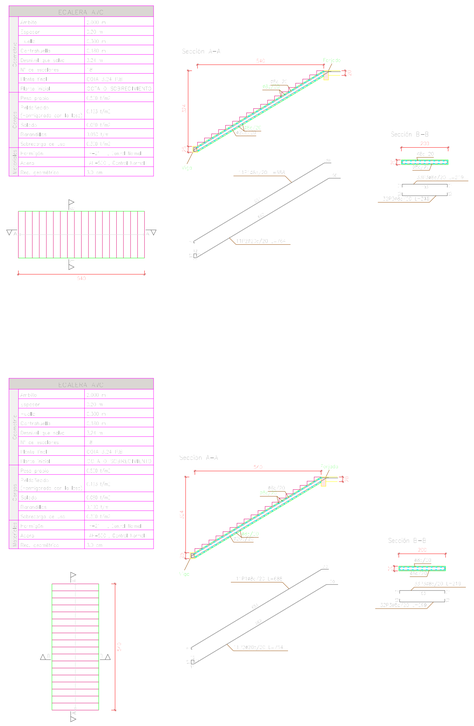
4P5ø8 L=146

UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO		
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA	
CARACTER: DISPOSICIÓN DE ARMADOS EN RAMPA		PLANO 10/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: 1 :100	FECHA: T.JA. 2/JULIO/2021

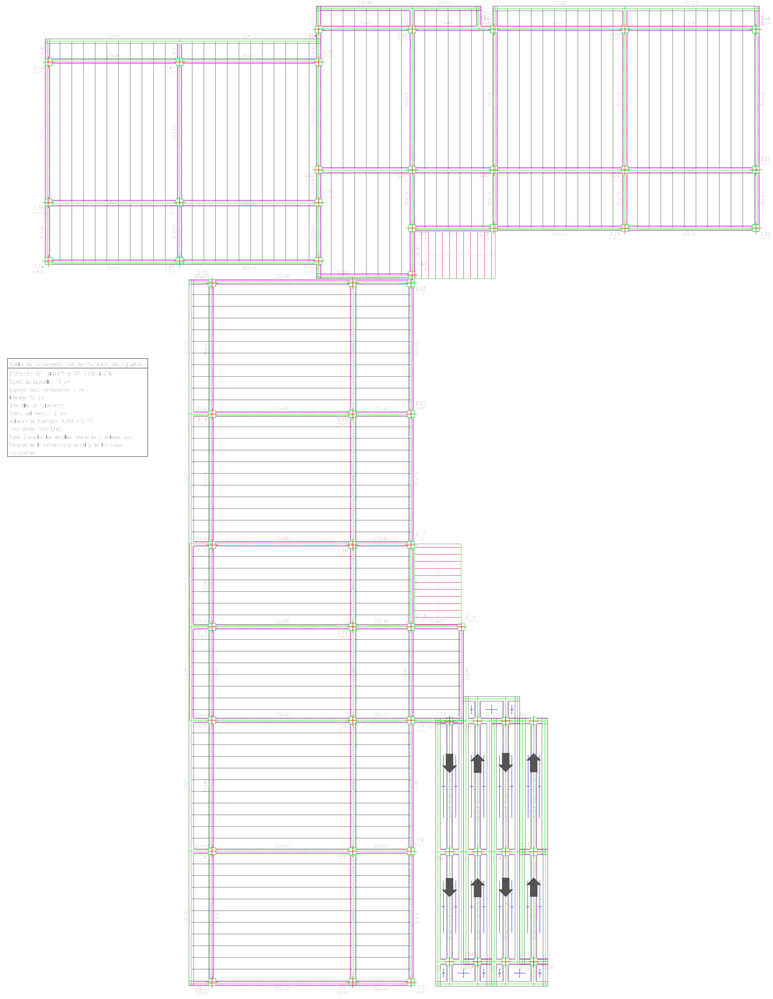
DISPOSICION DE ARMADURA PARA LOSA ALIVIANADA



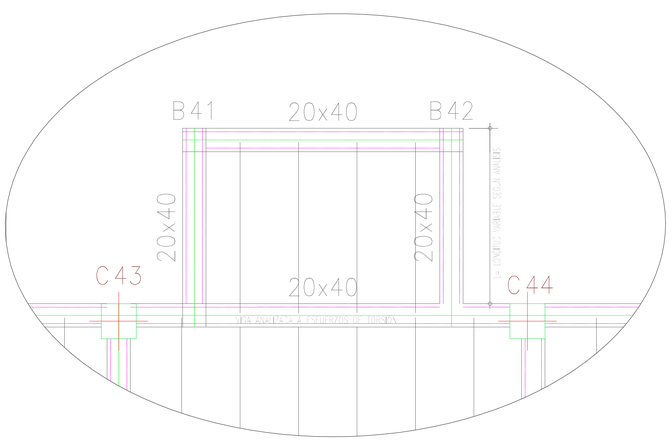
GEOMETRIA Y DISPOSICION DE ARMADURA PARA ESCALERAS

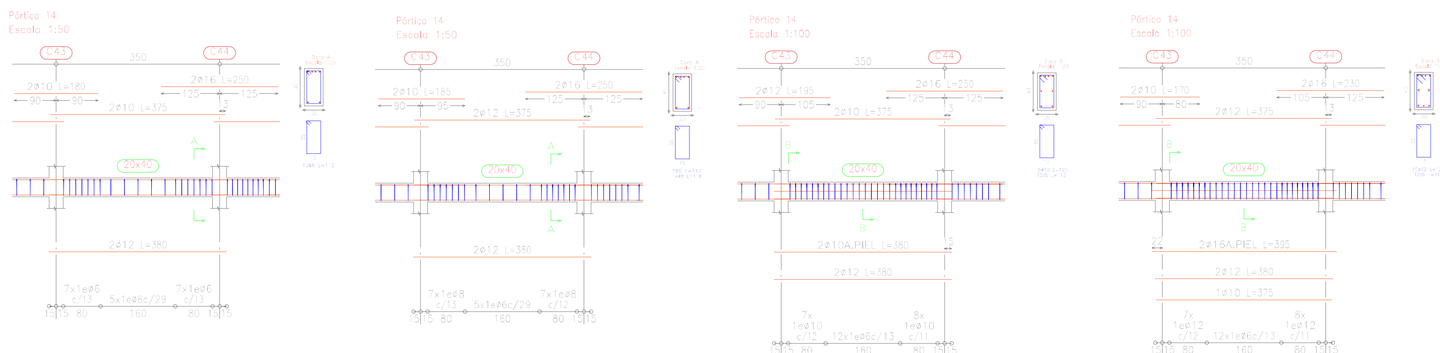


DISPOSICION DE VIGUETAS PARA LOSA ALIVIANADA



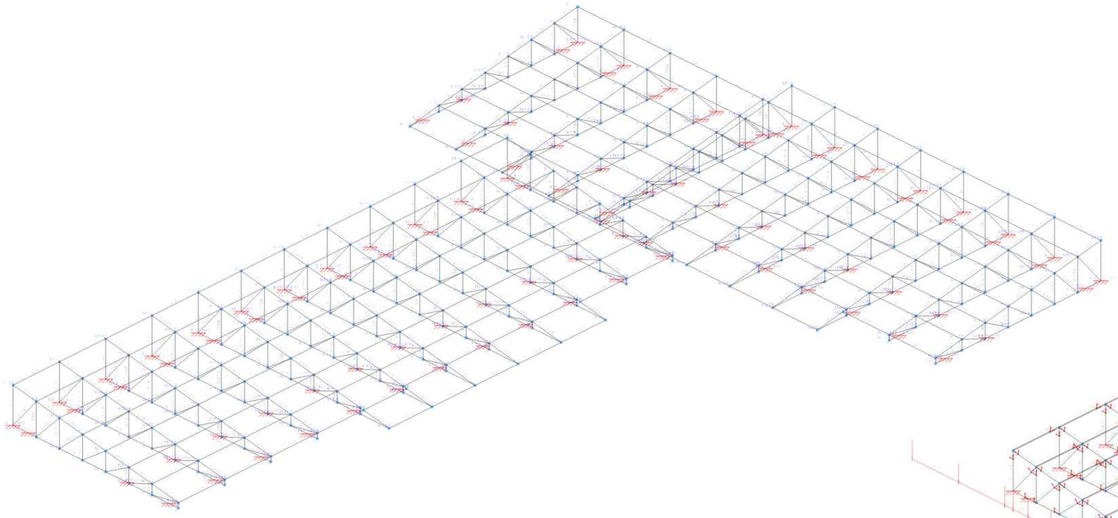
ARMADURA NECESARIA EN VIGAS A TORSIÓN (APORTE ACADEMICO)



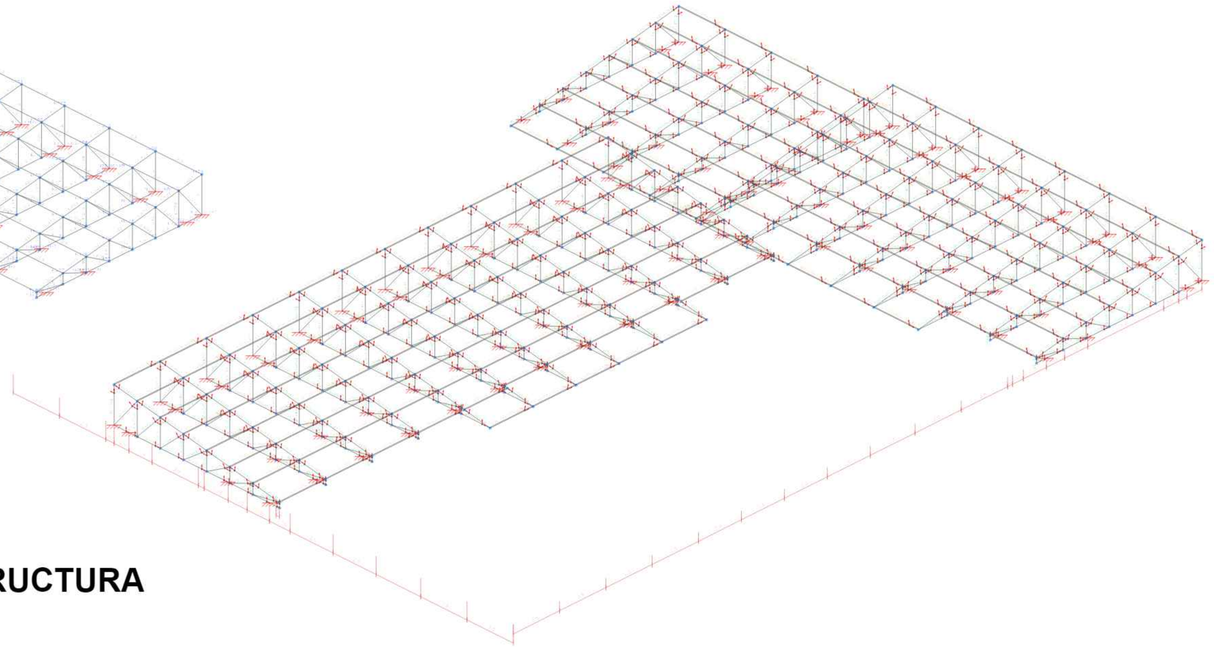


UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO			
PROYECTO DE INGENIERÍA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA		
CARACTER: DETALLE DE ARMADO PARA LOSAS Y ESCALERAS DETALLE DE ARMADO PARA VIGAS SUJETAS A TORSION			PLANO 11/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: 1 :100	FECHA: TJA. 2/JULIO/2021	

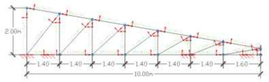
LONGITUDES DE ELEMENTOS COMPONENTES DE LA CUBIERTA METALICA

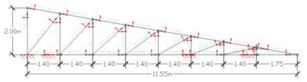


PERFILES METALICOS ASIGNADOS ALA CUBIERTA

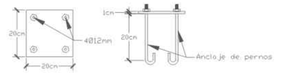


MODELOS DE CERCHAS EMPLEADOS EN LA ESTRUCTURA

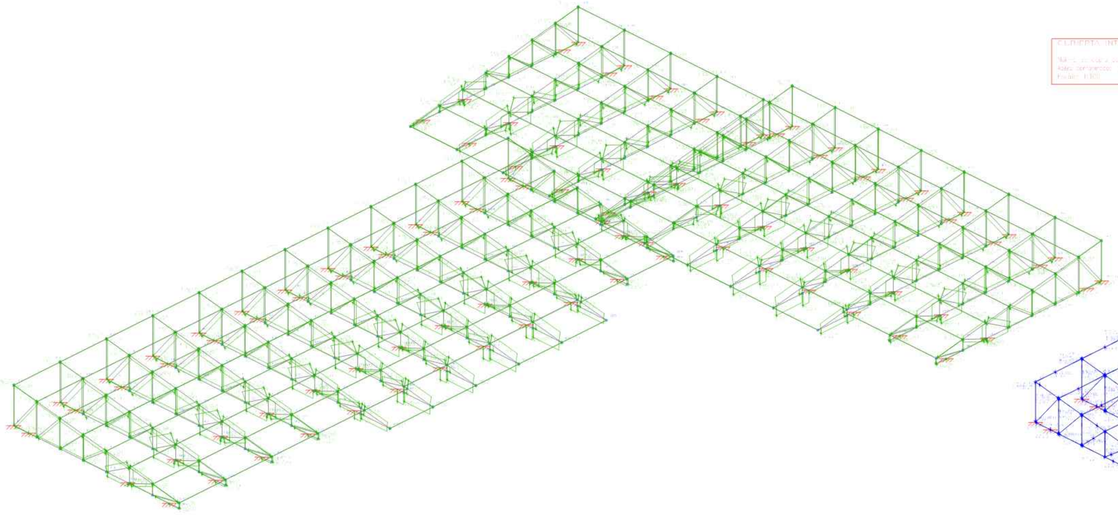




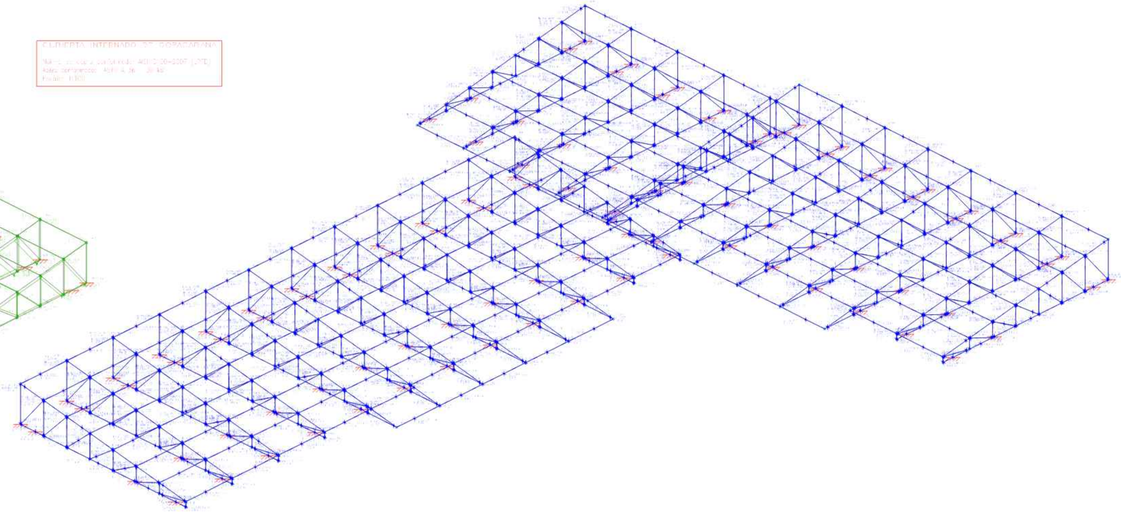
DETALLE DE PLACA DE APOYO DE CERCHAS



ESFUERZOS AXILES



MOMENTOS FLECTORES



UNIVERSIDAD AUTONOMA JUAN MISAEL SARACHO		
PROYECTO DE INGENIERIA CIVIL II CIV - 502	PROYECTO: DISEÑO ESTRUCTURAL INTERNADO DE COPACABANA	
CARACTER: ARMADO Y DISPOSICION DE LA CUBIERTA		PLANO 12/12
EJECUTÓ: UNIV. VICENTE COLQUE ALBARO	ESCALA: 1 :100	FECHA: TJA. 2/JULIO/2021