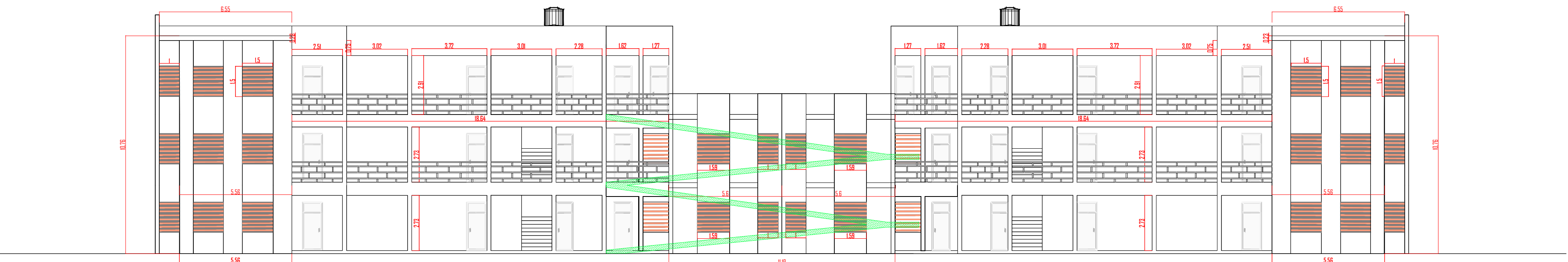
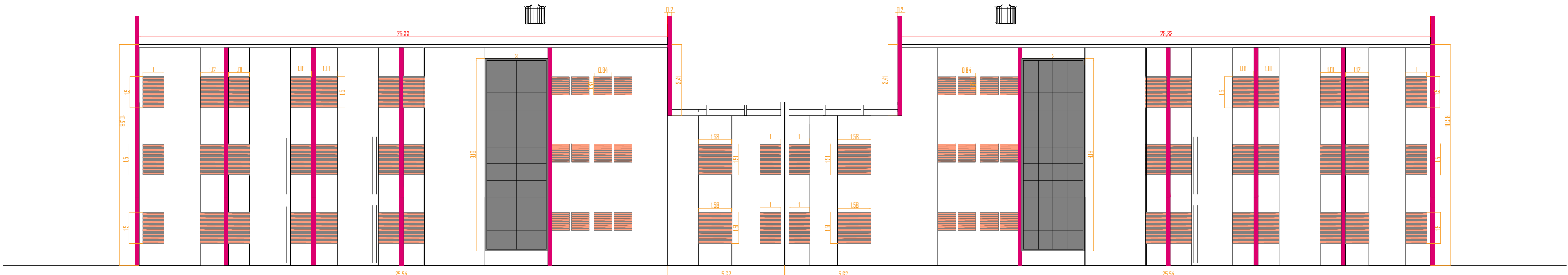


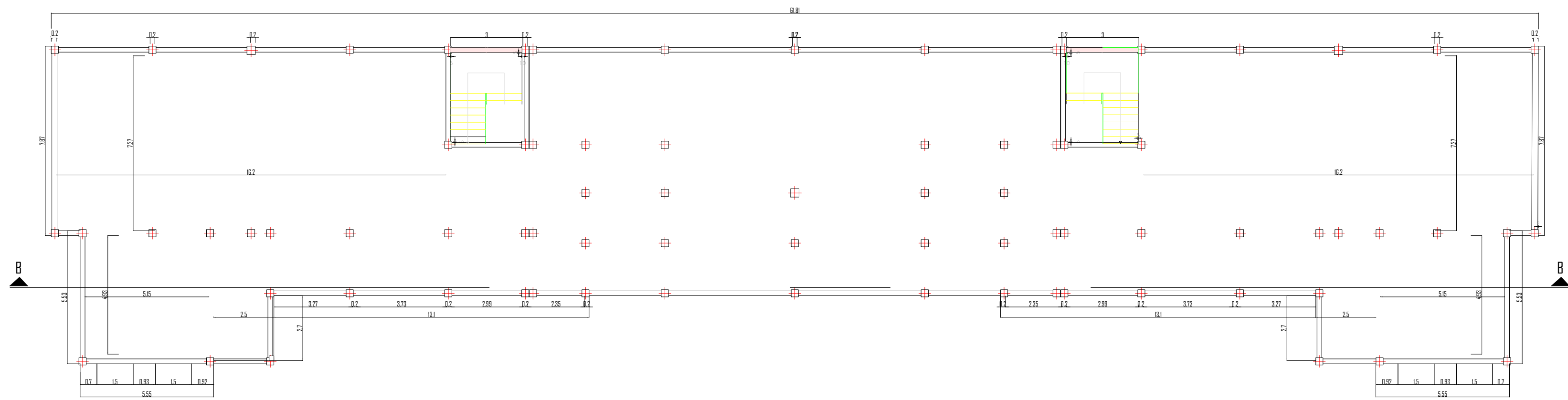
CORTE B - B



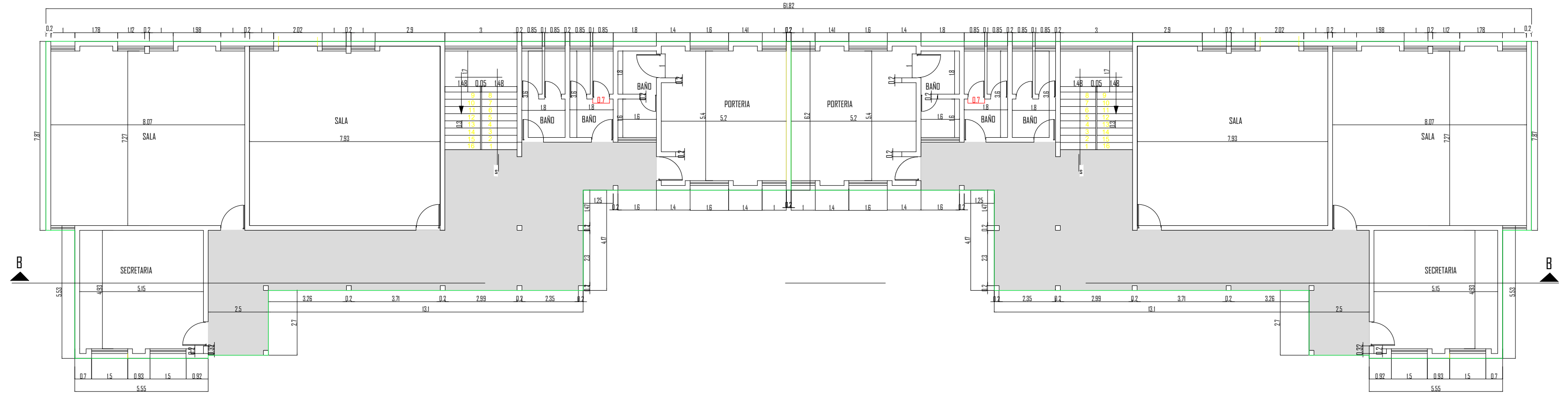
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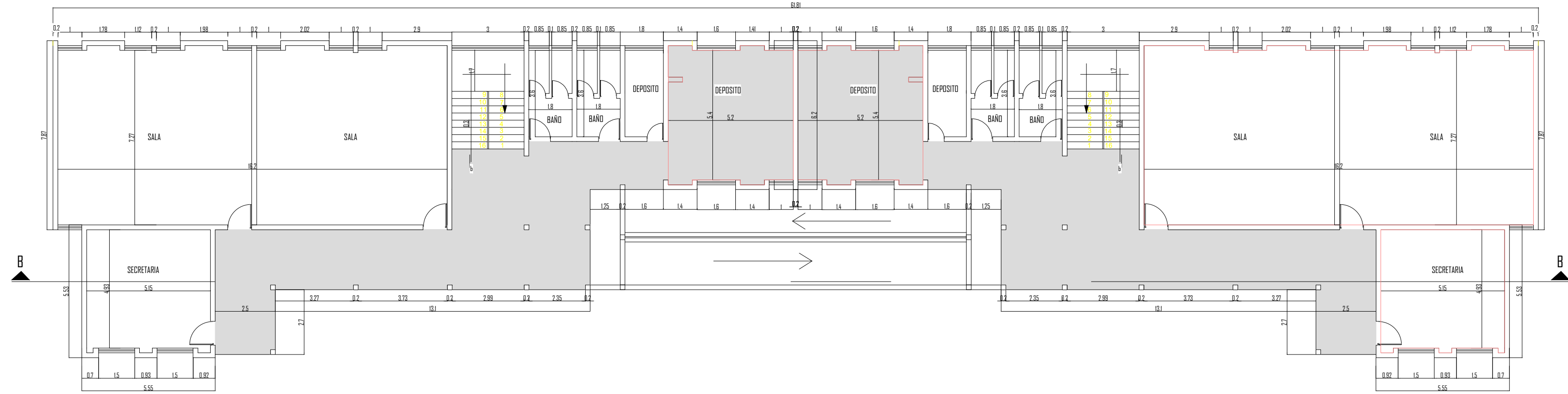
FACHADA TRASERA



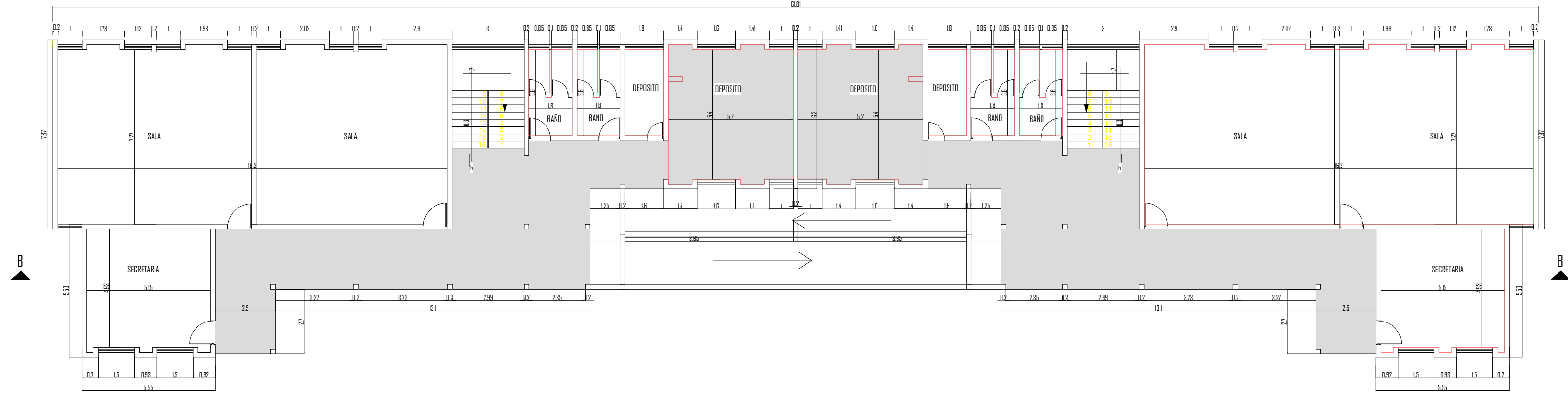
TERRAZA



PLANTA BAJA



SEGUNDA PLANTA



TERCERA PLANTA



UNIVERSIDAD AUTÓNOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA
INGENIERIA CIVIL

CONTENIDO
PLANO ARQUITECTÓNICO

DISEÑO DEL CENTRO DE CAPACITACIÓN DEL B. SANTIAGO (Ciudad de Tarja)

UNIVERSITARIO : VILTE COLQUE JHONATAN JAVIER

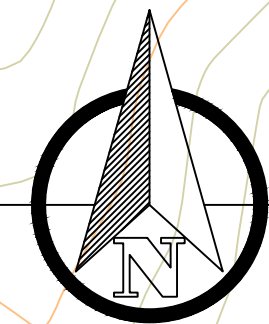
ESCALA:
1:150

FECHA:
23/06/2025

LAMINA

1/1

TOPOGRAFIA Y LINEAMIENTO - BARRIO SANTIAGO



REFERENCIAS	
	SUBDIVISIÓN DE LOTES
	CALLES
	LINEAMIENTO DE MANZANO
	CURVAS DE NIVEL
	ÁREA VERDE Y/O EQUIPAMIENTO
	EMPLAZAMIENTO CENTRO CAP

D.G.O.T. 		DIRECCIÓN GENERAL DE ORDENAMIENTO TERRITORIAL	
DIRECCIÓN:		CARACTER: TOPOGRAFIA Y LINEAMIENTO - BARRIO SANTIAGO	
ESCALA: 1:1500		UNIDAD DE PLANEAMIENTOS ESPECIALES Y REORDENAMIENTOS: FECHA: JUNIO - 2025	
		LÁMINA: 1/1	

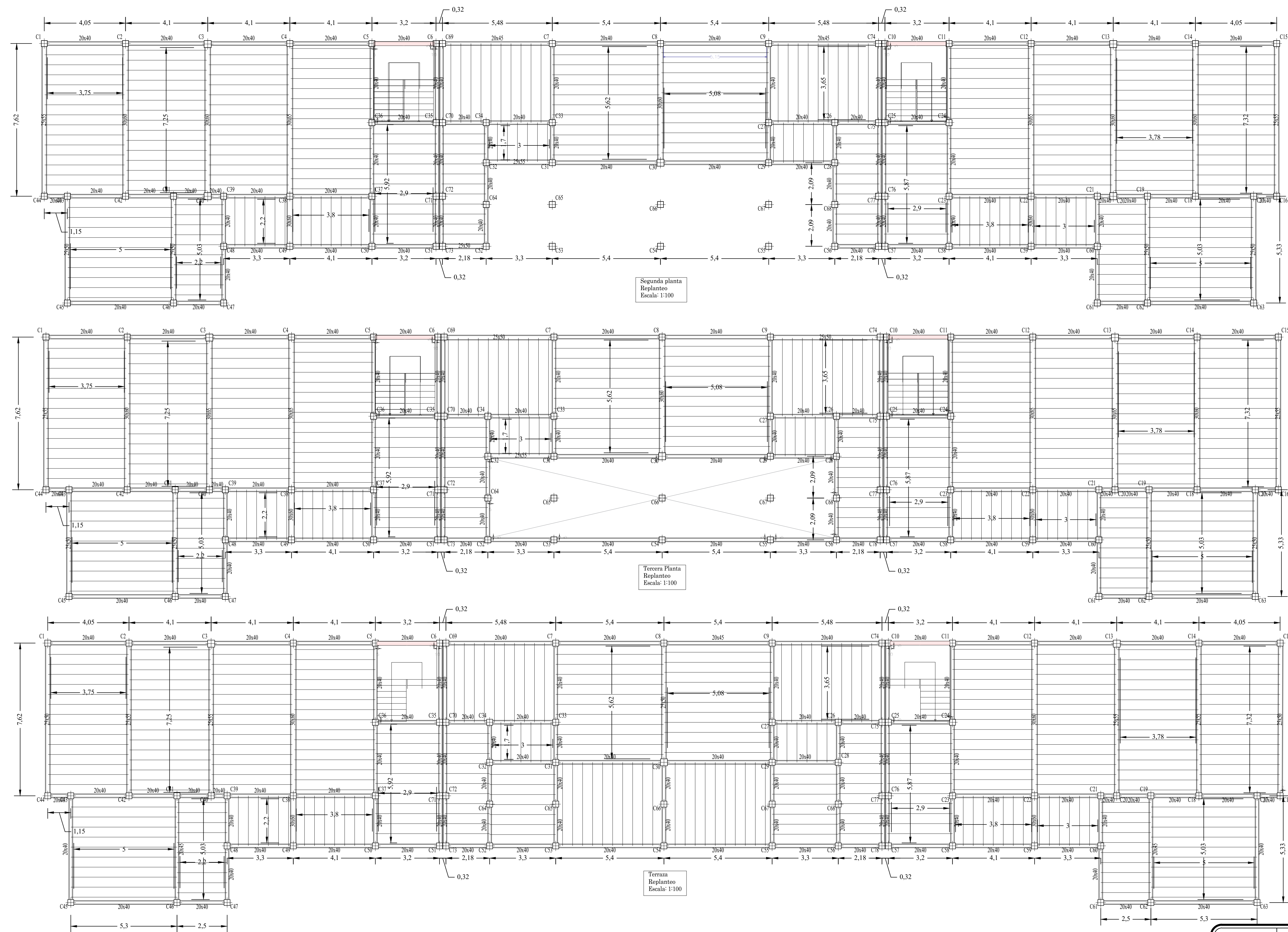


Tabla de características de forjados de viguetas (Grupo 7)
FORJADO DE VIGUETAS DE HORMIGÓN
Canto de bovedilla: 17 cm
Espesor capa compresión: 5 cm
Interje: 50 cm
Bovedilla: De poliestireno
Ancho del nervio: 8 cm
Volumen de hormigón: 0.074 m³/m²
Peso propio: 0.22 t/m² (Simple), 0.28 t/m² (Doble)
Recubrimiento geométrico superior: 2.0 cm
Nota: Consulte los detalles referentes a enlaces con forjados de la estructura principal y de las zonas macizadas.

Tabla de características de forjados de viguetas (Grupo 12)
FORJADO DE VIGUETAS DE HORMIGÓN
Canto de bovedilla: 17 cm
Espesor capa compresión: 5 cm
Interje: 50 cm
Bovedilla: De poliestireno
Ancho del nervio: 8 cm
Volumen de hormigón: 0.074 m³/m²
Peso propio: 0.22 t/m² (Simple), 0.28 t/m² (Doble)
Recubrimiento geométrico superior: 2.0 cm
Nota: Consulte los detalles referentes a enlaces con forjados de la estructura principal y de las zonas macizadas.

Tabla de características de forjados de viguetas (Grupo 13)
FORJADO DE VIGUETAS DE HORMIGÓN
Canto de bovedilla: 17 cm
Espesor capa compresión: 5 cm
Interje: 50 cm
Bovedilla: De poliestireno
Ancho del nervio: 8 cm
Volumen de hormigón: 0.074 m³/m²
Peso propio: 0.22 t/m² (Simple), 0.28 t/m² (Doble)
Recubrimiento geométrico superior: 2.0 cm
Nota: Consulte los detalles referentes a enlaces con forjados de la estructura principal y de las zonas macizadas.

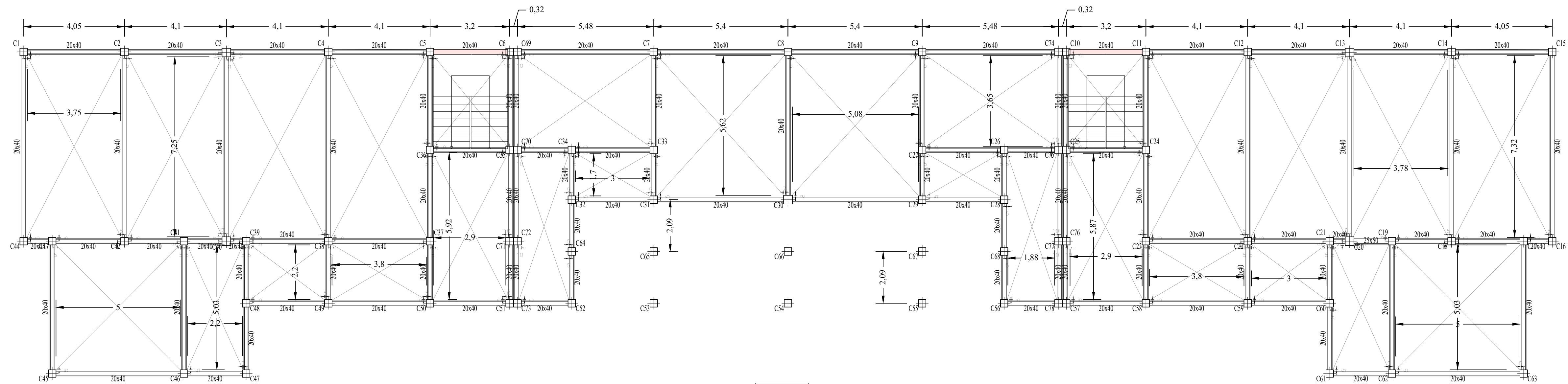
PLANO DE LOSAS



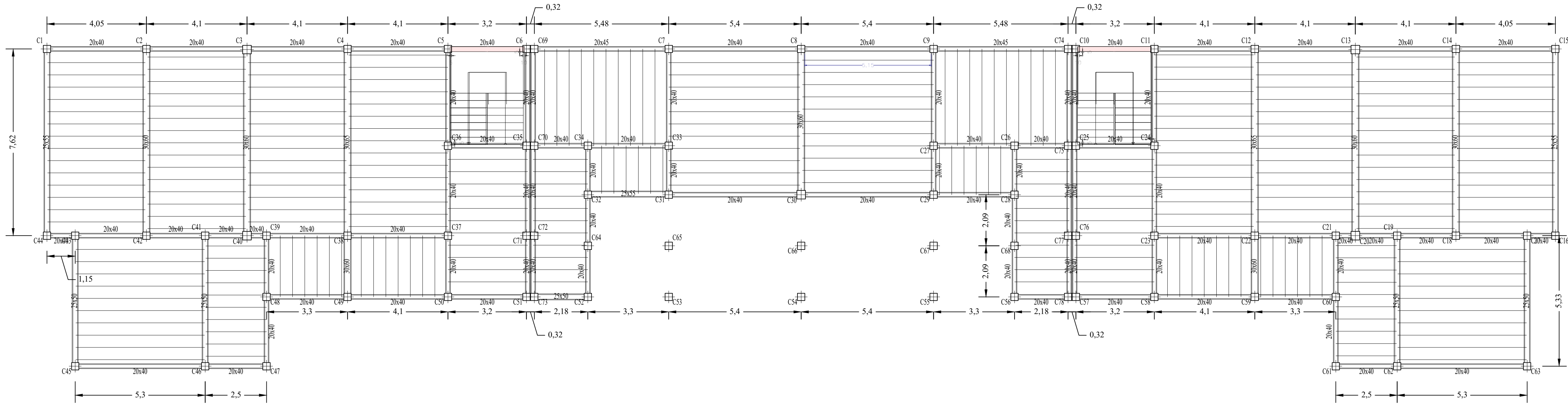
UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA
INGENIERIA CIVIL

CONTENIDO PLANO DE REPLANTEO	LAMINA
DISEÑO DEL CENTRO DE CAPACITACIÓN DEL B. SANTIAGO (Ciudad de Tarija)	14/14
UNIVERSITARIO : VILTE COLQUE JHONATAN JAVIER	
ESCALA: INDICADA	FECHA: 23/06/2025

PLANO DE REPLANTEO



Planta Baja
Replanteo
Escala: 1:100



Segunda planta
Replanteo
Escala: 1:100



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
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INGENIERIA CIVIL

CONTENIDO
PLANO DE REPLANTEO

LAMINA

DISEÑO DEL CENTRO DE CAPACITACIÓN DEL B. SANTIAGO (Ciudad de Tarija)

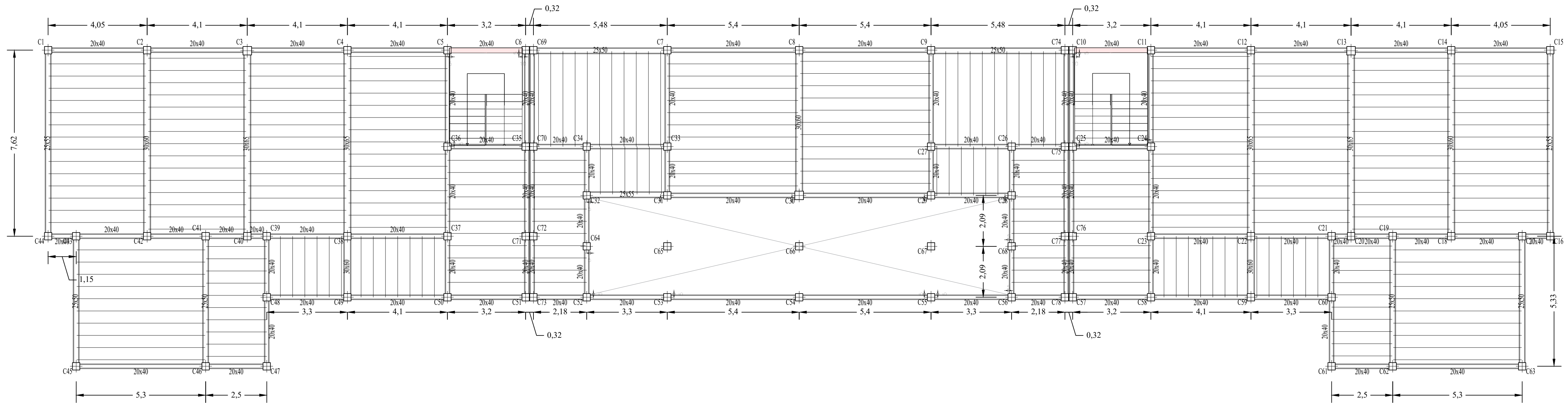
2/14

UNIVERSITARIO : VILTE COLQUE JHONATAN JAVIER

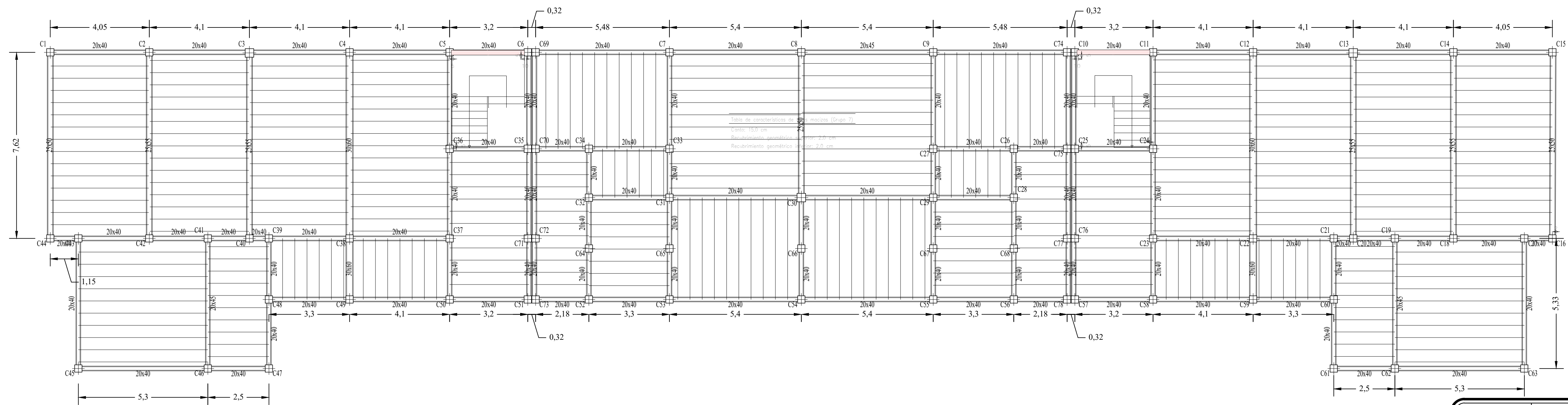
ESCALA:
INDICADA

FECHA:
23/06/2025

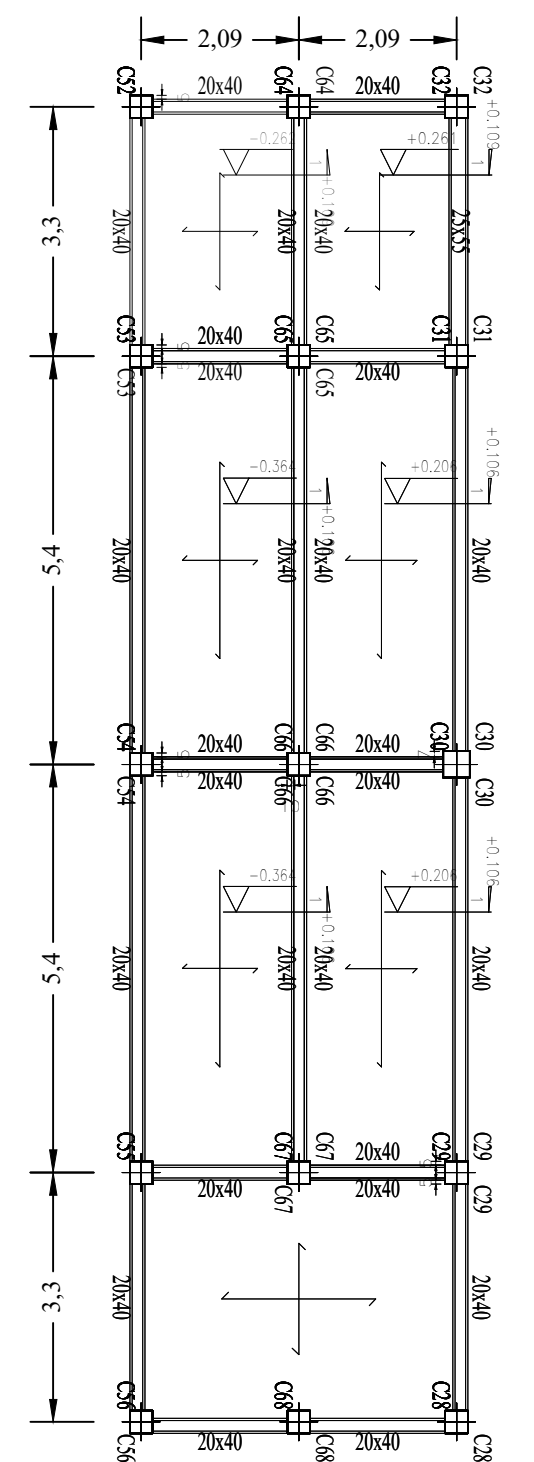
PLANO DE REPLANTEO



Tercera Planta
Replanteo
Escala: 1:100



Terraza
Replanteo
Escala: 1:100



RAMPA
Replanteo
Escala: 1:100



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
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INGENIERIA CIVIL

CONTENIDO

PLANO DE REPLANTEO

LAMINA

DISEÑO DEL CENTRO DE CAPACITACIÓN DEL B. SANTIAGO (Ciudad de Tarija)

3/14

UNIVERSITARIO: VILTE COLQUE JHONATAN JAVIER

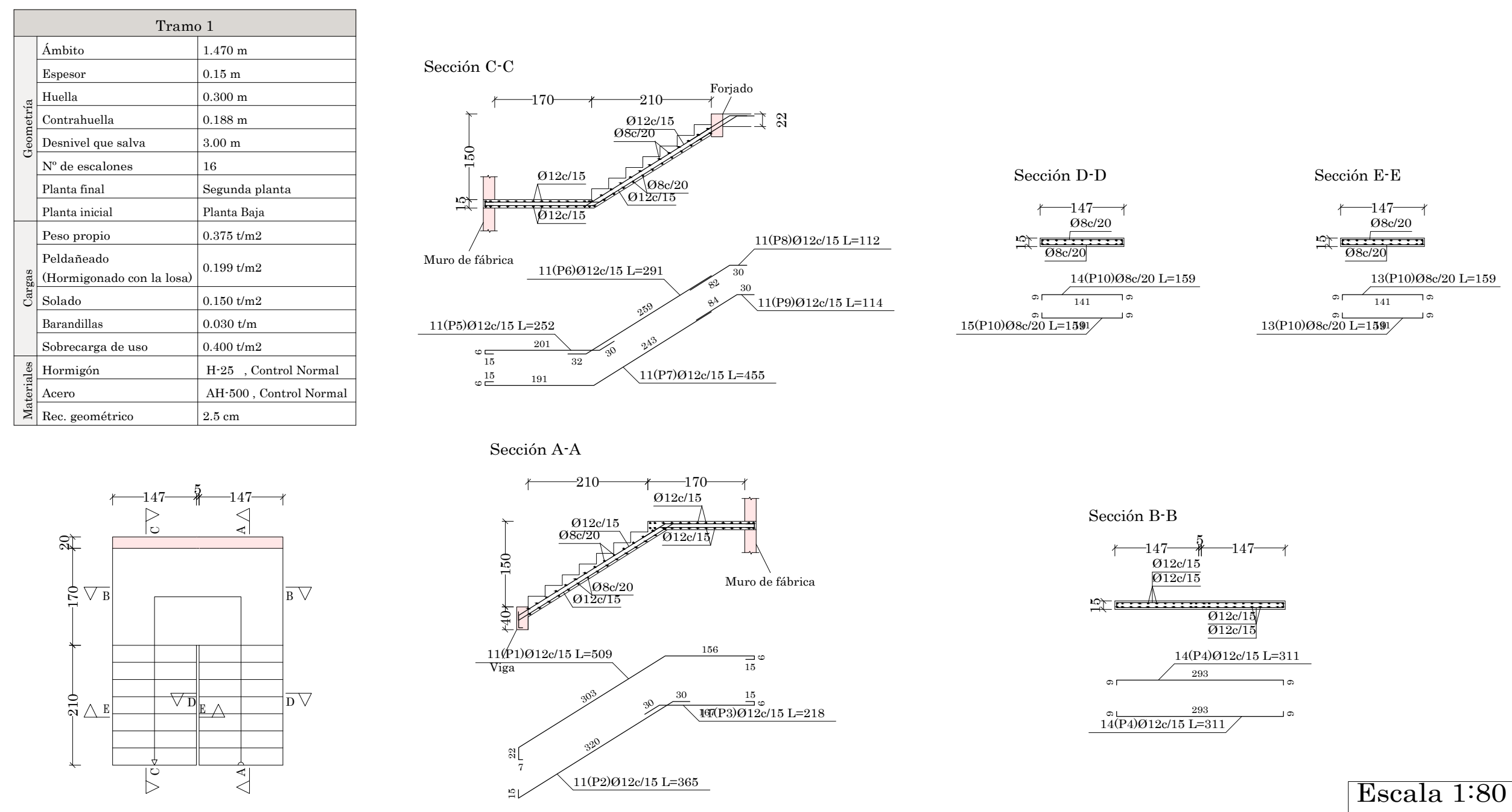
ESCALA: INDICADA

FECHA:	23/06/2025
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PLANO DE DETALLES Y ARMADURA DE GRADAS

Esc. 1:80

Escalera 1



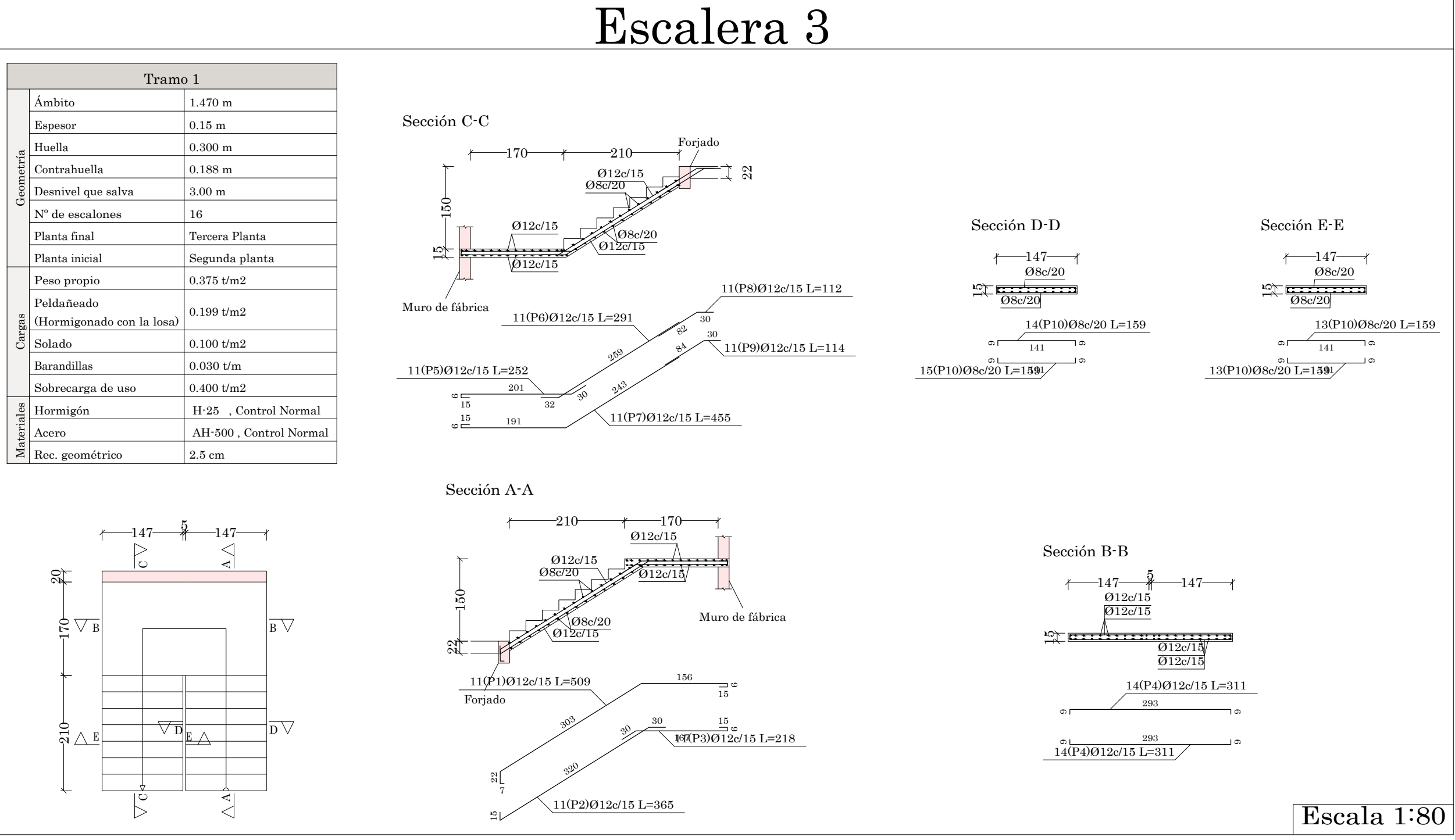
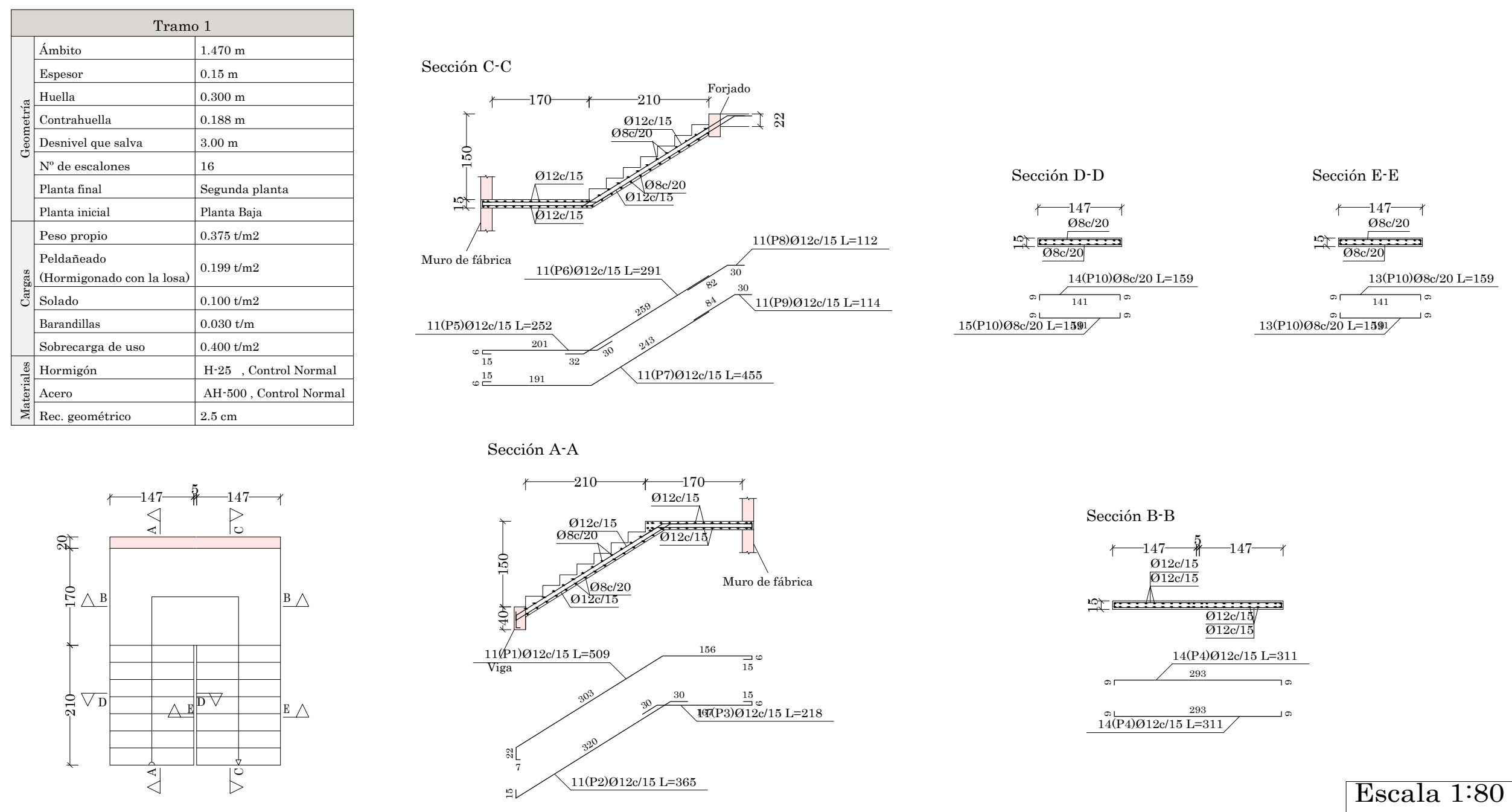
Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
Escalera 1-Tramo 1	1	Ø12	11	509	5099	45.7
	2	Ø12	11	365	4015	35.6
	3	Ø12	11	218	2398	21.3
	4	Ø12	28	311	8708	77.3
	5	Ø12	11	252	2772	24.6
	6	Ø12	11	201	3301	28.4
	7	Ø12	11	455	5005	44.4
	8	Ø12	11	112	1232	10.9
	9	Ø12	11	114	1254	11.1
	10	Ø8	55	159	8745	34.5
Total+10%						371.6
				Ø8	38.0	
				Ø12	333.6	
Total						371.6

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø8	87.5	38
	Ø12	341.8	334
			372

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
Escalera 2-Tramo 1	1	Ø12	11	509	5099	45.7
	2	Ø12	11	365	4015	35.6
	3	Ø12	11	218	2398	21.3
	4	Ø12	28	311	8708	77.3
	5	Ø12	11	252	2772	24.6
	6	Ø12	11	201	3301	28.4
	7	Ø12	11	455	5005	44.4
	8	Ø12	11	112	1232	10.9
	9	Ø12	11	114	1254	11.1
	10	Ø8	55	159	8745	34.5
Total+10%						371.6
				Ø8	38.0	
				Ø12	333.6	
Total						371.6

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø8	87.5	38
	Ø12	341.8	334
			372

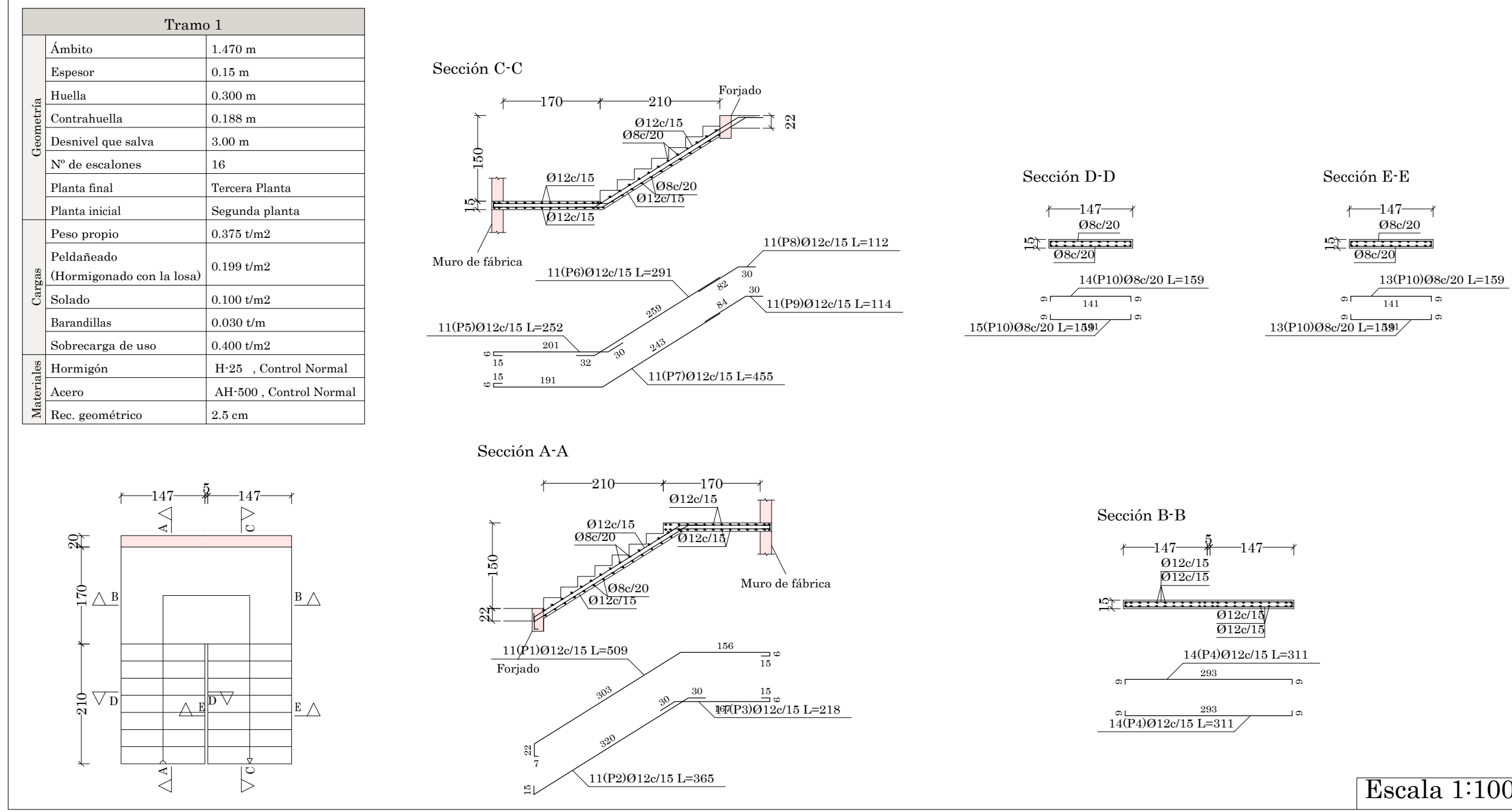
Escalera 2



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
Escalera 3-Tramo 1	1	Ø12	11	509	5099	45.7
	2	Ø12	11	365	4015	35.6
	3	Ø12	11	218	2398	21.3
	4	Ø12	28	311	8708	77.3
	5	Ø12	11	252	2772	24.6
	6	Ø12	11	201	3301	28.4
	7	Ø12	11	455	5005	44.4
	8	Ø12	11	112	1232	10.9
	9	Ø12	11	114	1254	11.1
	10	Ø8	55	159	8745	34.5
Total+10%						371.6
				Ø8	38.0	
				Ø12	333.6	
Total						371.6

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø8	87.5	38
	Ø12	341.8	334
			372

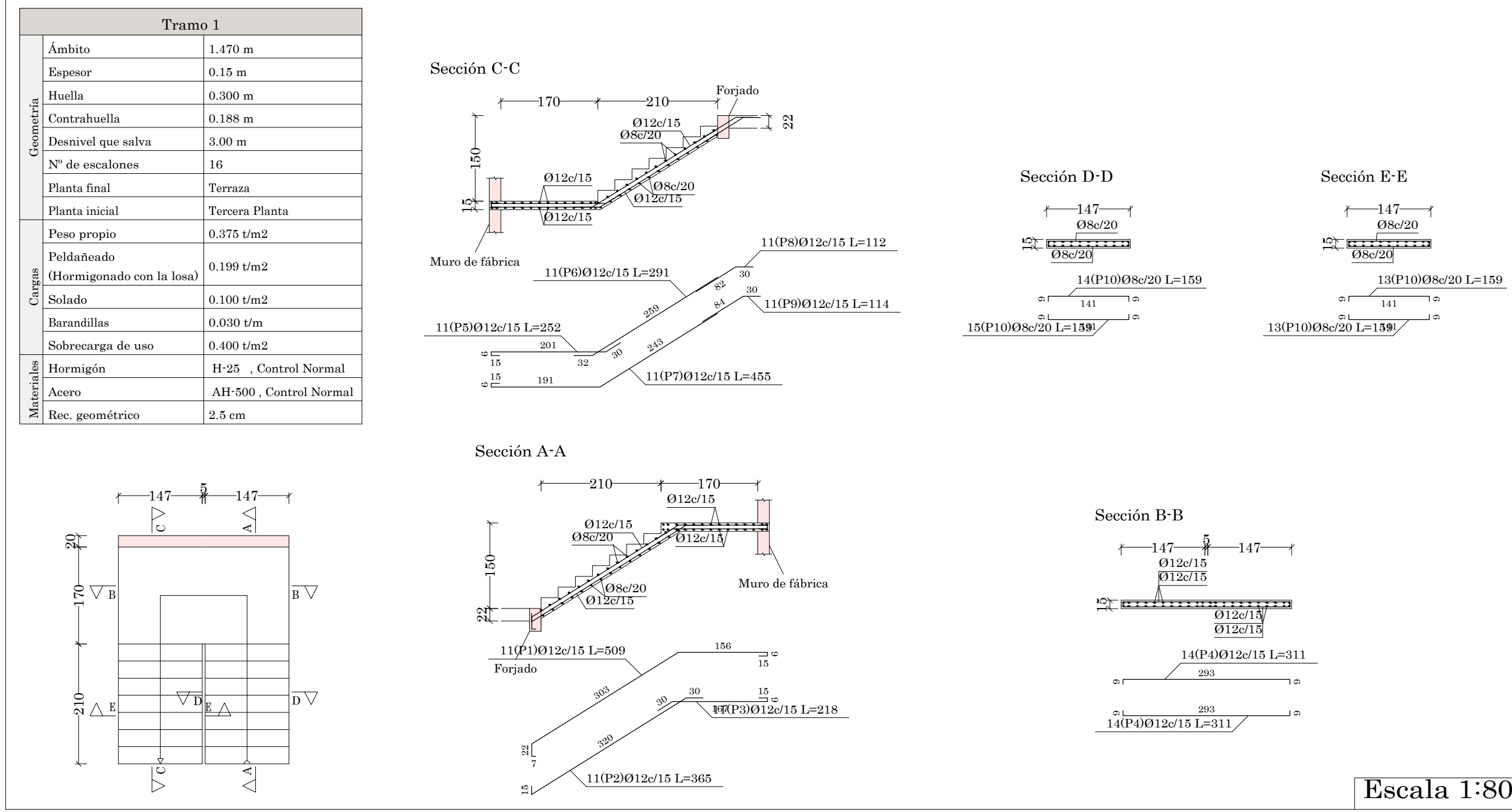
Escalera 4



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
Escalera 4-Tramo 1	1	Ø12	11	509	5099	45.7
	2	Ø12	11	365	4015	35.6
	3	Ø12	11	218	2398	21.3
	4	Ø12	28	311	8708	77.3
	5	Ø12	11	252	2772	24.6
	6	Ø12	11	201	3301	28.4
	7	Ø12	11	455	5005	44.4
	8	Ø12	11	112	1232	10.9
	9	Ø12	11	114	1254	11.1
	10	Ø8	55	159	8745	34.5
Total+10%						371.6
				Ø8	38.0	
				Ø12	333.6	
Total						371.6

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø8	87.5	38
	Ø12	341.8	334
			372

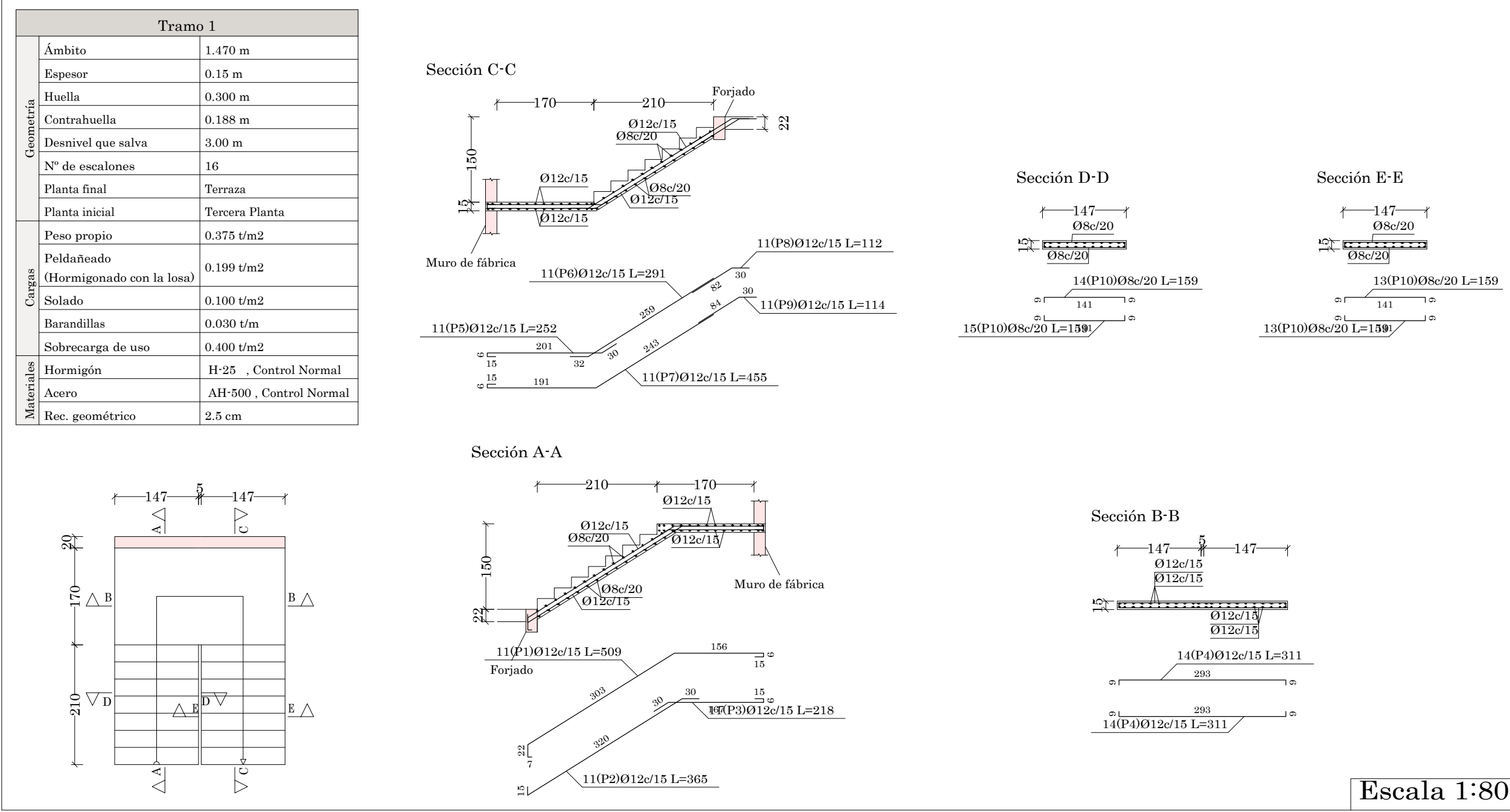
Escalera 5



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
Escalera 5-Tramo 1	1	Ø12	11	509	5099	45.7
	2	Ø12	11	365	4015	35.6
	3	Ø12	11	218	2398	21.3
	4	Ø12	28	311	8708	77.3
	5	Ø12	11	252	2772	24.6
	6	Ø12	11	201	3301	28.4
	7	Ø12	11	455	5005	44.4
	8	Ø12	11	112	1232	10.9
	9	Ø12	11	114	1254	11.1
	10	Ø8	55	159	8745	34.5
Total+10%						371.6
				Ø8	38.0	
				Ø12	333.6	
Total						371.6

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø8	87.5	38
	Ø12	341.8	334
			372

Escalera 6



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
Escalera 6-Tramo 1	1	Ø12	11	509	5099	45.7
	2	Ø12	11	365	4015	35.6
	3	Ø12	11	218	2398	21.3
	4	Ø12	28	311	8708	77.3
	5	Ø12	11	252	2772	24.6
	6	Ø12	11	201	3301	28.4
	7	Ø12	11	455	5005	44.4
	8	Ø12	11	112	1232	10.9
	9	Ø12	11	114	1254	11.1
	10	Ø8	55	159	8745	34.5
Total+10%						371.6
				Ø8	38.0	
				Ø12	333.6	
Total						371.6

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø8	87.5	38
	Ø12	341.8	334
			372



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

CONTENIDO
PLANO DE DETALLES Y ARMADURA DE GRADAS

LAMINA

DISEÑO DEL CENTRO DE CAPACITACIÓN DEL B. SANTIAGO (Ciudad de Tarja)

13/14

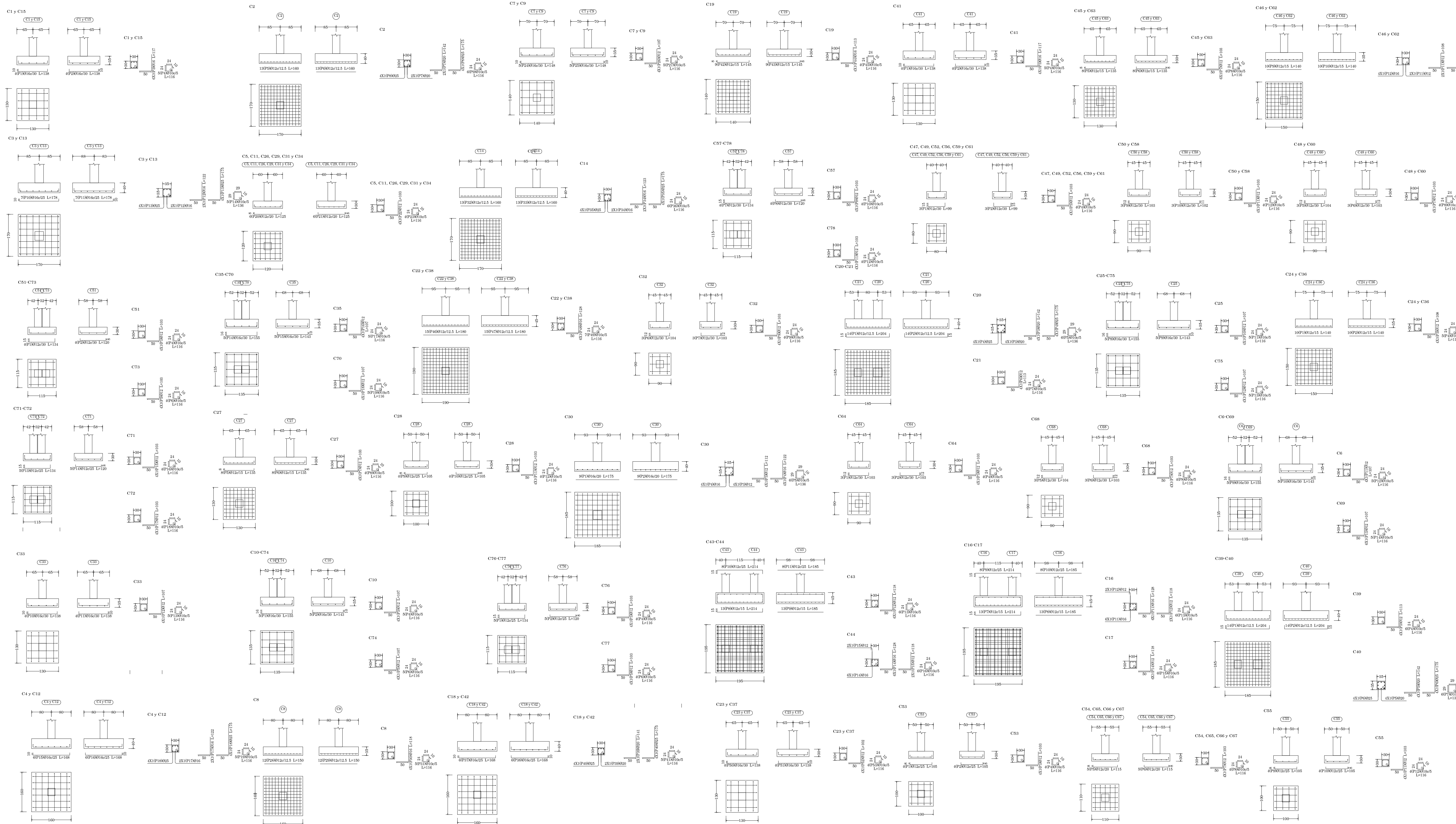
UNIVERSITARIO: VILTE COLQUE JHONATAN JAVIER

FECHA:
INDICADA

FECHA:
23/06/2025

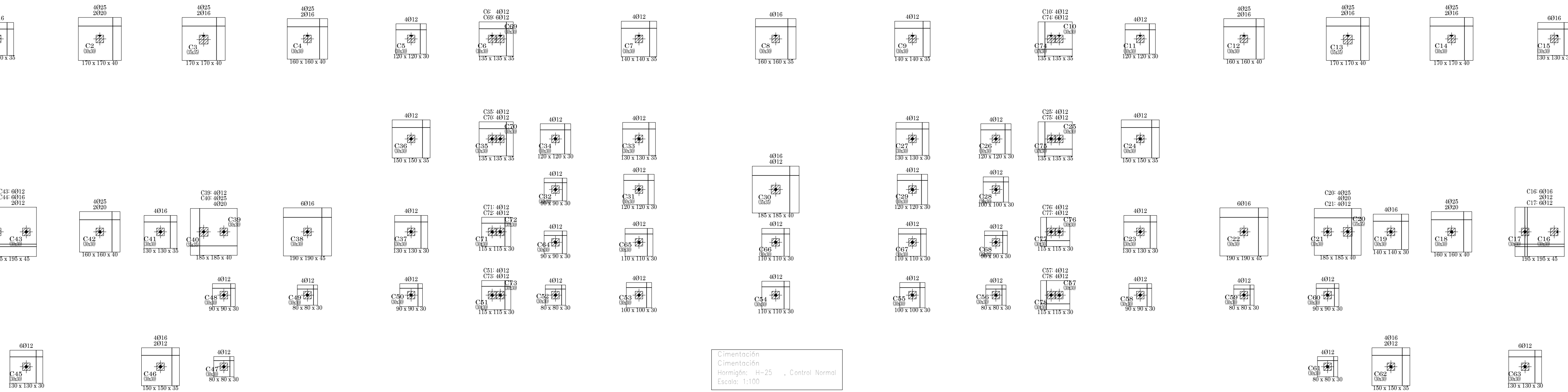
PLANO DE DETALLES DE CIMENTACIÓN

Esc. 1:75



Despiece cimentación

Esc. 1:100



Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
C1=C15	1	Ø12	4	134	536	4.8
	2	Ø12	4	120	480	4.2
	3	Ø12	4	103	412	3.7
	4	Ø10	4	116	464	2.9
	5	Ø10	4	103	412	3.7
Total+10%						24.5
C2=C7	7	Ø12	4	134	536	4.8
	8	Ø12	4	120	480	4.2
	9	Ø12	4	103	412	3.7
	10	Ø10	4	116	464	2.9
	12	Ø10	4	116	464	2.9
Total+10%						24.5
C7=C12	13	Ø12	5	120	600	5.3
	14	Ø12	5	103	515	4.6
	15	Ø12	4	103	412	3.7
	16	Ø10	4	116	464	2.9
	17	Ø12	4	103	412	3.7
Total+10%						26.8
					Ø10	18.5
					Ø60	20.2
					Total	75.8
Resumen Cimentación				Long. total (m)	Poses=10% (kg)	Total
Despisee cimentación						
AH-500CN				Ø10	429.0	291
				Ø12	1259.2	1230
				Ø16	402.6	699
				Ø20	19.8	54
				Ø25	70.0	297

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
C2=C36	1	Ø12	10	204	2856	25.4
	2	Ø12	10	204	2856	25.4
	3	Ø20	4	142	568	14.0
	4	Ø25	4	175	700	27.0
	5	Ø10	6	136	816	4.0
	6	Ø12	4	138	552	4.0
C27-C75	7	Ø10	6	138	816	4.0
	8	Ø16	5	155	775	12.6
	9	Ø10	5	143	715	11.3
	10	Ø12	4	107	428	3.8
	11	Ø10	5	116	580	3.6
	12	Ø12	4	107	428	3.8
C35-C70	13	Ø16	5	155	775	12.6
	14	Ø10	5	143	715	11.3
	15	Ø12	4	107	428	3.8
	16	Ø10	5	116	580	3.6
	18	Ø12	4	107	428	3.8
	19	Ø10	5	116	580	3.6
Total+10%					121.1	
Total					261.0	
Total					302.0	
Total					75.9	
Total					41.8	
Total					021.5	
Total					28.7	
Total					199.8	

Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø10	429.0	291
	Ø12	1259.2	1230
	Ø16	402.6	699
	Ø20	19.8	54
	Ø25	70.0	297
			2571

		016	127
		016	187
		016	82.4
		Total	113.8

Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	010	429.0	291
	012	1259.2	1230
	016	402.6	699
	020	19.8	54
	025	70.0	297
			2571



Escudo Nacional de Chile

UNIVERSIDAD

FACU

CONTENIDO

PLAN

DISEÑO DEL CENTRO DE CAPACITACIÓN

UNIVERSITARIO - MONTES DE OCA, CHILE

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500CN (kg)
C35	1	Ø12	3	104	312	2.8
	2	Ø12	3	103	309	2.7
	3	Ø12	4	103	412	3.7
	4	Ø10	4	116	464	2.9
	Total+10%					13.3
C36=C37	5	Ø16	5	185	925	12.2
	6	Ø16	5	185	925	12.2
	7	Ø12	4	107	428	3.8
	8	Ø12	4	107	428	3.8
	9	Ø10	4	116	464	2.9
Total+10%						41.2
Total+10%						113.3

Resumen Acero Cimentación	Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø10	429.0	291
	Ø12	1259.2	1230
	Ø16	402.6	699
	Ø20	19.8	54
	Ø25	70.0	297
			2571



UNIVERSIDAD AUTÓNOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGÍA
INGENIERÍA CIVIL

CONTENIDO
PLANO DE DETALLES DE CIMENTACIÓN

DISEÑO DEL CENTRO DE CAPACITACIÓN DEL B. SANTIAGO (Ciudad de Tarja)

UNIVERSITARIO : VILTE COLQUE JHONATAN JAVIER

ESCALA: INDICADA
FECHA: 23/06/2025

LAMINA
1/14

Esc. 1:100



Esc. 1:100

Element	Pos. (km)	No.	Long. (km)	Total (km)	AH (500K)
C10	1	1016	0	1016	0.0
	2	1016	0	1016	0.0
	3	1016	0	1016	0.0
C11	1	1012	2	1112	0.0
	2	1012	0	1012	0.0
C12	1	1012	2	1112	0.0
	2	1012	0	1012	0.0
C16-C18	1	1016	0	1116	0.0
	2	1016	0	1116	0.0
	3	1016	0	1116	0.0
C18-C20	1	1012	2	1112	0.0
	2	1012	0	1012	0.0
	3	1012	0	1012	0.0
C21-C23	1	1012	0	1012	0.0
	2	1012	0	1012	0.0
C33	1	1012	0	1012	0.0
	2	1012	0	1012	0.0
C35-C36-C38	1	1012	0	1112	0.0
	2	1012	0	1112	0.0
C44	1	1012	0	1012	0.0
	2	1012	0	1012	0.0
C45	1	1012	0	1012	0.0
	2	1012	0	1012	0.0
C46	1	1012	0	1012	0.0
	2	1012	0	1012	0.0
C48-C54	1	1012	0	1012	0.0
	2	1012	0	1012	0.0
	3	1012	0	1012	0.0

Esc. 1:100

C7=C9

Pos.	Diam.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø12	4	195	430	840
2	Ø6	6	112	672	1344

+3.00

30

Ø12 4

Ø6 6

+2.25

+1.95

C19=C41

Pos.	Diam.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	115	460	920
2	Ø6	5	115	565	1130

+3,00
+2,25
+1,50

30
Ø16 L=115
Ø6 L=115

C20

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	Ø12	4	130	520
2	Ø6	8	112	896

+3.00

+2.05

30

Ø12 Ø12 1-130

Ø6 Ø6 1-112

[illegible]

C8=C19=C41

Pos.	Diám.	No.	Long. (cm)	Total (cm)	± 3 (cm)
1	Ø16	4	135	540	1620
2	Ø6	6	113	678	2034

30
[mm]

3.00
[m]

Ø16 (4) 135 0750 (111)

30)

	012	06	4	80	320	640
1	2	06	5	112	569	1129

+3,36

070012118-0

			g/cm ³	cm ³	cm ³	
1	Ø12	6	125	750	1500	+3.93
2	Ø6	8	112	896	1792	

30
 
 8P20012-1-125 8P20012-1-112

[illegible]

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-500C (kg)
C5+06	1	012	0	80	230	4.8
	2	06	5	112	150	1.2
	Total+0%					4.4
C85+74	1	012	0	90	540	4.8
	2	06	5	112	560	1.2
	Total+0%					6.6
						11.2
						06
						16.5
Total:					22.6	

Pilares que terminan en Tramo 8 Hormigón: H-25 , Control Normal Acero: AH-500 , Control Normal Escala: 1:100
--

C54=C66

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø12	4	80	320	640
2	Ø6	6	112	660	1120

















































































C69=C74

Pos.	Diam.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø12	6	90	540	1080
2	Ø6	5	112	560	1120

30

Ø12 Ø6

540 560

1080 1120

+4.50

+3.50

30

30

C14

Pos.	Distm	Nx	Long (cm)	Total (cm)
1	0925	4	155	620
2	0916	2	100	200
3	088	4	115	460

30
③ H 27
21
30000 1210
10000 1215

+5.07
+4.57
+4.07
+3.57
+3.07
+2.57
+2.07
+1.57
+1.07
+0.57
0
-0.57
-1.07
-1.57
-2.07
-2.57
-3.07
-3.57
-4.07
-4.57
-5.07

C29=C67

Pos.	Distn.	No.	Long (cm)	Total (cm)	x2 (cm)
1	012	4	80	320	640
2	06	5	112	560	1120

+4.50

+4.00

30
1.50 2.00 0.50
+4.00 +4.50

C66

Pos.	Diem.	No.	Long. (cm)	Total (cm)
1	Ø12	4	100	400
2	Ø6	6	112	672

Elemento	Pos. Dim.	Long. Total	Alt. ASOON
C1-C13-C14-C15	1 016 2 096	630 600 133 172	104 14
	3 020 4 120	155 600 120 240	44 50
	5 096 6 116	133 172 240 500	14 100
C6-C11	1 016 2 096	630 600 133 172	104 14
	3 020 4 120	155 600 120 240	44 50
	5 096 6 116	133 172 240 500	14 100
C10-C12	1 016 2 096	630 600 133 172	104 14
	3 020 4 120	155 600 120 240	44 50
	5 096 6 116	133 172 240 500	14 100
C2-C5-C6-C7-C8-C9-C10-C11-C12-C13-C14-C15-C16-C17-C18-C19-C20-C21-C22-C23-C24-C25-C26-C27-C28-C29-C30-C31-C32-C33-C34-C35-C36-C37-C38-C39-C40-C41-C42-C43-C44-C45-C46-C47-C48-C49-C50-C51-C52-C53-C54-C55-C56-C57-C58-C59-C60-C61-C62-C63-C64-C65-C66-C67-C68-C69-C70-C71-C72-C73-C74-C75-C76-C77-C78-C79-C80-C81-C82-C83-C84-C85-C86-C87-C88-C89-C90-C91-C92-C93-C94-C95-C96-C97-C98-C99-C100-C101-C102-C103-C104-C105-C106-C107-C108-C109-C110-C111-C112-C113-C114-C115-C116-C117-C118-C119-C120-C121-C122-C123-C124-C125-C126-C127-C128-C129-C130-C131-C132-C133-C134-C135-C136-C137-C138-C139-C140-C141-C142-C143-C144-C145-C146-C147-C148-C149-C150-C151-C152-C153-C154-C155-C156-C157-C158-C159-C160-C161-C162-C163-C164-C165-C166-C167-C168-C169-C170-C171-C172-C173-C174-C175-C176-C177-C178-C179-C180-C181-C182-C183-C184-C185-C186-C187-C188-C189-C190-C191-C192-C193-C194-C195-C196-C197-C198-C199-C200-C201-C202-C203-C204-C205-C206-C207-C208-C209-C210-C211-C212-C213-C214-C215-C216-C217-C218-C219-C220-C221-C222-C223-C224-C225-C226-C227-C228-C229-C230-C231-C232-C233-C234-C235-C236-C237-C238-C239-C240-C241-C242-C243-C244-C245-C246-C247-C248-C249-C250-C251-C252-C253-C254-C255-C256-C257-C258-C259-C260-C261-C262-C263-C264-C265-C266-C267-C268-C269-C270-C271-C272-C273-C274-C275-C276-C277-C278-C279-C280-C281-C282-C283-C284-C285-C286-C287-C288-C289-C290-C291-C292-C293-C294-C295-C296-C297-C298-C299-C300-C301-C302-C303-C304-C305-C306-C307-C308-C309-C310-C311-C312-C313-C314-C315-C316-C317-C318-C319-C320-C321-C322-C323-C324-C325-C326-C327-C328-C329-C330-C331-C332-C333-C334-C335-C336-C337-C338-C339-C340-C341-C342-C343-C344-C345-C346-C347-C348-C349-C350-C351-C352-C353-C354-C355-C356-C357-C358-C359-C360-C361-C362-C363-C364-C365-C366-C367-C368-C369-C370-C371-C372-C373-C374-C375-C376-C377-C378-C379-C380-C381-C382-C383-C384-C385-C386-C387-C388-C389-C390-C391-C392-C393-C394-C395-C396-C397-C398-C399-C400-C401-C402-C403-C404-C405-C406-C407-C408-C409-C410-C411-C412-C413-C414-C415-C416-C417-C418-C419-C420-C421-C422-C423-C424-C425-C426-C427-C428-C429-C430-C431-C432-C433-C434-C435-C436-C437-C438-C439-C440-C441-C442-C443-C444-C445-C446-C447-C448-C449-C450-C451-C452-C453-C454-C455-C456-C457-C458-C459-C460-C461-C462-C463-C464-C465-C466-C467-C468-C469-C470-C471-C472-C473-C474-C475-C476-C477-C478-C479-C480-C481-C482-C483-C484-C485-C486-C487-C488-C489-C490-C491-C492-C493-C494-C495-C496-C497-C498-C499-C500-C501-C502-C503-C504-C505-C506-C507-C508-C509-C510-C511-C512-C513-C514-C515-C516-C517-C518-C519-C520-C521-C522-C523-C524-C525-C526-C527-C528-C529-C530-C531-C532-C533-C534-C535-C536-C537-C538-C539-C540-C541-C542-C543-C544-C545-C546-C547-C548-C549-C550-C551-C552-C553-C554-C555-C556-C557-C558-C559-C560-C561-C562-C563-C564-C565-C566-C567-C568-C569-C570-C571-C572-C573-C574-C575-C576-C577-C578-C579-C580-C581-C582-C583-C584-C585-C586-C587-C588-C589-C590-C591-C592-C593-C594-C595-C596-C597-C598-C599-C600-C601-C602-C603-C604-C605-C606-C607-C608-C609-C610-C611-C612-C613-C614-C615-C616-C617-C618-C619-C620-C621-C622-C623-C624-C625-C626-C627-C628-C629-C630-C631-C632-C633-C634-C635-C636-C637-C638-C639-C640-C641-C642-C643-C644-C645-C646-C647-C648-C649-C650-C651-C652-C653-C654-C655-C656-C657-C658-C659-C660-C661-C662-C663-C664-C665-C666-C667-C668-C669-C670-C671-C672-C673-C674-C675-C676-C677-C678-C679-C680-C681-C682-C683-C684-C685-C686-C687-C688-C689-C690-C691-C692-C693-C694-C695-C696-C697-C698-C699-C700-C701-C702-C703-C704-C705-C706-C707-C708-C709-C710-C711-C712-C713-C714-C715-C716-C717-C718-C719-C720-C721-C722-C723-C724-C725-C726-C727-C728-C729-C730-C731-C732-C733-C734-C735-C736-C737-C738-C739-C740-C741-C742-C743-C744-C745-C746-C747-C748-C749-C750-C751-C752-C753-C754-C755-C756-C757-C758-C759-C760-C761-C762-C763-C764-C765-C766-C767-C768-C769-C770-C771-C772-C773-C774-C775-C776-C777-C778-C779-C780-C781-C782-C783-C784-C785-C786-C787-C788-C789-C790-C791-C792-C793-C794-C795-C796-C797-C798-C799-C800-C801-C802-C803-C804-C805-C806-C807-C808-C809-C810-C811-C812-C813-C814-C815-C816-C817-C818-C819-C820-C821-C822-C823-C824-C825-C826-C827-C828-C829-C830-C831-C832-C833-C834-C835-C836-C837-C838-C839-C840-C841-C842-C843-C844-C845-C846-C847-C848-C849-C850-C851-C852-C853-C854-C855-C856-C857-C858-C859-C860-C861-C862-C863-C864-C865-C866-C867-C868-C869-C870-C871-C872-C873-C874-C875-C876-C877-C878-C879-C880-C881-C882-C883-C884-C885-C886-C887-C888-C889-C890-C891-C892-C893-C894-C895-C896-C897-C898	48 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164 166 168 170 172 174 176 178 180 182 184 186 188 190 192 194 196 198 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234 236 238 240 242 244 246 248 250 252 254 256 258 260 262 264 266 268 270 272 274 276 278 280 282 284 286 288 290 292 294 296 298 300 302 304 306 308 310 312 314 316 318 320 322 324 326 328 330 332 334 336 338 340 342 344 346 348 350 352 354 356 358 360 362 364 366 368 370 372 374 376 378 380 382 384 386 388 390 392 394 396 398 400 402 404 406 408 410 412 414 416 418 420 422 424 426 428 430 432 434 436 438 440 442 444 446 448 450 452 454 456 458 460 462 464 466 468 470 472 474 476 478 480 482 484 486 488 490 492 494 496 498 500 502 504 506 508 510 512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 544 546 548 550 552 554 556 558 560 562 564 566 568 570 572 574 576 578 580 582 584 586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 628 630 632 634 636 638 640 642 644 646 648 650 652 654 656 658 660 662 664 666 668 670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 712 714 716 718 720 722 724 726 728 730 732 734 736 738 740 742 744 746 748 750 752 754 756 758 760 762 764 766 768 770 772 774 776 778 780 782 784 786 788 790 792 794 796 798 800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838 840 842 844 846 848 850 852 854 856 858 860 862 864 866 868 870 872 874 876 878 880 882 884 886 888 890 892 894 896 898 900 902 904 906 908 910 912 914 916 918 920 922 924 926 928 930 932 934 936 938 940 942 944 946 948 950 952 954 956 958 960 962 964 966 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 998 1000		
C11	1 016 2 096	630 600 133 172	104 14
	3 020 4 120	155 600 120 240	44 50
	5 096 6 116	133 172 240 500	14 100
C13-C14-C15-C16	1 016 2 096	630 600 133 172	104 14
	3 020 4 120	155 600 120 240	44 50
	5 096 6 116	133 172 240 500	14 100
C10-C11	1 016 2 096	630 600 133 172	104 14
	3 020 4 120	155 600 120 240	44 50
	5 096 6 116	133 172 240 500	14 100
C2-C5-C6-C7-C8-C9-C10-C11-C12-C13-C14-C15-C16-C17-C18-C19-C20-C21-C22-C23-C24-C25-C26-C27-C28-C29-C30-C31-C32-C33-C34-C35-C36-C37-C38-C39-C40-C41-C42-C43-C44-C45-C46-C47-C48-C49-C50-C51-C52-C53-C54-C55-C56-C57-C58-C59-C60-C61-C62-C63-C64-C65-C66-C67-C68-C69-C70-C71-C72-C73-C74-C75-C76-C77-C78-C79-C80-C81-C82-C83-C84-C85-C86-C87-C88-C89-C90-C91-C92-C93-C94-C95-C96-C97-C98-C99-C100-C101-C102-C103-C104-C105-C106-C107-C108-C109-C110-C111-C112-C113-C114-C115-C116-C117-C118-C119-C120-C121-C122-C123-C124-C125-C126-C127-C128-C129-C130-C131-C132-C133-C134-C135-C136-C137-C138-C139-C140-C141-C142-C143-C144-C145-C146-C147-C148-C149-C150-C151-C152-C153-C154-C155-C156-C157-C158-C159-C160-C161-C162-C163-C164-C165-C166-C167-C168-C169-C170-C171-C172-C173-C174-C175-C176-C177-C178-C179-C180-C181-C182-C183-C184-C185-C186-C187-C188-C189-C190-C191-C192-C193-C194-C195-C196-C197-C198-C199-C200-C201-C202-C203-C204-C205-C206-C207-C208-C209-C210-C211-C212-C213-C214-C215-C216-C217-C218-C219-C220-C221-C222-C223-C224-C225-C226-C227-C228-C229-C230-C231-C232-C233-C234-C235-C236-C237-C238-C239-C240-C241-C242-C243-C244-C245-C246-C247-C248-C249-C250-C251-C252-C253-C254-C255-C256-C257-C258-C259-C260-C261-C262-C263-C264-C265-C266-C267-C268-C269-C270-C271-C272-C273-C274-C275-C276-C277-C278-C279-C280-C281-C282-C283-C284-C285-C286-C287-C288-C289-C290-C291-C292-C293-C294-C295-C296-C297-C298-C299-C300-C301-C302-C303-C304-C305-C306-C307-C308-C309-C310-C311-C312-C313-C314-C315-C316-C317-C318-C319-C320-C321-C322-C323-C324-C325-C326-C327-C328-C329-C330-C331-C332-C333-C334-C335-C336-C337-C338-C339-C340-C341-C342-C343-C344-C345-C346-C347-C348-C349-C350-C351-C352-C353-C354-C355-C356-C357-C358-C359-C360-C361-C362-C363-C364-C365-C366-C367-C368-C369-C370-C371-C372-C373-C374-C375-C376-C377-C378-C379-C380-C381-C382-C383-C384-C385-C386-C387-C388-C389-C390-C391-C392-C393-C394-C395-C396-C397-C398-C399-C400-C401-C402-C403-C404-C405-C406-C407-C408-C409-C410-C411-C412-C413-C414-C415-C416-C417-C418-C419-C420-C421-C422-C423-C424-C425-C426-C427-C428-C429-C430-C431-C432-C433-C434-C435-C436-C437-C438-C439-C440-C441-C442-C443-C444-C445-C446-C447-C448-C449-C450-C451-C452-C453-C454-C455-C456-C457-C458-C459-C460-C461-C462-C463-C464-C465-C466-C467-C468-C469-C470-C471-C472-C473-C474-C475-C476-C477-C478-C479-C480-C481-C482-C483-C484-C485-C486-C487-C488-C489-C490-C491-C492-C493-C494-C495-C496-C497-C498-C499-C500-C501-C502-C503-C504-C505-C506-C507-C508-C509-C510-C511-C512-C513-C514-C515-C516-C517-C518-C519-C520-C521-C522-C523-C524-C525-C526-C527-C528-C529-C530-C531-C532-C533-C534-C535-C536-C537-C538-C539-C540-C541-C542-C543-C544-C545-C546-C547-C548-C549-C550-C551-C552-C553-C554-C555-C556-C557-C558-C559-C560-C561-C562-C563-C564-C565-C566-C567-C568-C569-C570-C571-C572-C573-C574-C575-C576-C577-C578-C579-C580-C581-C582-C583-C584-C585-C586-C587-C588-C589-C590-C591-C592-C593-C594-C595-C596-C597-C598-C599-C600-C601-C602-C603-C604-C605-C606-C607-C608-C609-C610-C611-C612-C613-C614-C615-C616-C617-C618-C619-C620-C621-C622-C623-C624-C625-C626-C627-C628-C629-C630-C631-C632-C633-C634-C635-C636-C637-C638-C639-C640-C641-C642-C643-C644-C645-C646-C647-C648-C649-C650-C651-C652-C653-C654-C655-C656-C657-C658-C659-C660-C661-C662-C663-C664-C665-C666-C667-C668-C669-C670-C671-C672-C673-C674-C675-C676-C677-C678-C679-C680-C681-C682-C683-C684-C685-C686-C687-C688-C689-C690-C691-C692-C693-C694-C695-C696-C697-C698-C699-C700-C701-C702-C703-C704-C705-C706-C707-C708-C709-C710-C711-C712-C713-C714-C715-C716-C717-C718-C719-C720-C721-C722-C723-C724-C725-C726-C727-C728-C729-C730-C731-C732-C733-C734-C735-C736-C737-C738-C739-C740-C741-C742-C743-C744-C745-C746-C747-C748-C749-C750-C751-C752-C753-C754-C755-C756-C757-C758-C759-C760-C761-C762-C763-C764-C765-C766-C767-C768-C769-C770-C771-C772-C773-C774-C775-C776-C777-C778-C779-C780-C781-C782-C783-C784-C785-C786-C787-C788-C789-C790-C791-C792-C793-C794-C795-C796-C797-C798-C799-C800-C801-C802-C803-C804-C805-C806-C807-C808-C809-C810-C811-C812-C813-C814-C815-C816-C817-C818-C819-C820-C821-C822-C823-C824-C825-C826-C827-C828-C829-C830-C831-C832-C833-C834-C835-C836-C837-C838-C839-C840-C841-C842-C843-C844-C845-C846-C847-C848-C849-C850-C851-C852-C853-C854-C855-C856-C857-C858-C859-C860-C861-C862-C863-C864-C865-C866-C867-C868-C869-C870-C871-C872-C873-C874-C875-C876-C877-C878-C879-C880-C881-C882-C883-C884-C885-C886-C887-C888-C889-C890-C891-C892-C893-C894-C895-C896-C897-C898	48 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152 154 156 158 160 162 164 166 168 170 172 174 176 178 180 182 184 186 188 190 192 194 196 198 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234 236 238 240 242 244 246 248 250 252 254 256 258 260 262 264 266 268 270 272 274 276 278 280 282 284 286 288 290 292 294 296 298 300 302 304 306 308 310 312 314 316 318 320 322 324 326 328 330 332 334 336 338 340 342 344 346 348 350 352 354 356 358 360 362 364 366 368 370 372 374 376 378 380 382 384 386 388 390 392 394 396 398 400 402 404 406 408 410 412 414 416 418 420 422 424 426 428 430 432 434 436 438 440 442 444 446 448 450 452 454 456 458 460 462 464 466 468 470 472 474 476 478 480 482 484 486 488 490 492 494 496 498 500 502 504 506 508 510 512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 544 546 548 550 552 554 556 558 560 562 564 566 568 570 572 574 576 578 580 582 584 586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 628 630 632 634 636 638 640 642 644 646 648 650 652 654 656 658 660 662 664 666 668 670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 712 714 716 718 720 722 724 726 728 730 732 734 736 738 740 742 744 746 748 750 752 754 756 758 760 762 764 766 768 770 772 774 776 778 780 782 784 786 788 790 792 794 796 798 800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838 840 842 844 		

C8

Pw.	Diam.	No.	Long. (cm)	Total (cm ³)
1	016	4	69	240
2	06	2	113	226

Top View: 30 mm x 16 mm
Bottom View: Total Length = 113 mm, Width = 6 mm, Feature Position = 69 mm

30
870012 L-88 87200 L-112

Elemento	Pos.	Dim.	No.	Long.	Total	AF-SOCC	Q ₀ Q ₀
C15C16C17	1	010	2	0	0	0	0
	2	000	3	0	0	0	0
	3	000	3	0	0	0	0
C20C18C14	1	005	4	110	0	0	272
	2	005	4	110	0	0	272
	3	005	4	110	0	0	272
	4	005	4	110	0	0	272
C18C11	1	005	4	110	0	0	71
	2	005	4	110	0	0	71
	3	005	4	110	0	0	71
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	199	010	2	55	110	0	908
	200	010	2	55	110	0	90

Elemento	Pos.	Diám.	No.	Long. (cm)	Total (cm)	AH-5000 (kg)
O2=C4	1	012	6	90	540	4.8
	2	05	6	112	560	1.2
	Total+10% c/s					6.6
					06- 012	2F
					Total	13.5

Pilares que terminan en
Tramo 9
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

C69=C74

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø12	6	90	540	1080
2	Ø6	5	112	560	1120

PLANO DE DETALLE DE ESTRIBADO

Esc. 1:100

C1=C15	C2=C18 C12	C3	C4=C12	C5=C11+C28+C29 C27=C34+C37 C47=C48+C50 C31=C35+C38 C36=C70 C60=C61+C71 C72=C76+C77 C78	C6=C10 C24=C25 C33=C35 C36=C70 C75	C7	C8	C9	C13	C14	C16	C17	C19
Tercera													
Tercera Planta													
Tramo 10													
Tramo 9													

Resumen Acero	Long. total	Peso+10%	Total
Porcentaje 1 a 13	(m)	(kg)	
Pilares			
AH-500CN	06	6970.9	1702
08	736.4	320	
010	59.9	41	
012	3955.2	3963	
016	1086.2	1886	
020	363.6	986	
025	875.2	3710	12508

C20	C21=C39	C22=C38	C28=C56 C68	C29	C30	C31	C32	C40	C41	C43	C44	C45=C63	C46=C62	C49=C59	C52	C53	C54	C55
Tercera																		
Tramo 5																		
Tramo 4																		
Tramo 3																		

C20	C21=C39	C22=C38	C28=C56 C68	C29	C30	C31	C32	C40	C41	C43	C44	C45=C63	C46=C62	C49=C59	C52	C53	C54	C55
Tramo 5																		
Tramo 4																		
Tramo 3																		

Cuadro de pilares
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Cuadro de pilares
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

C1=C15	C2=C18 C12	C3	C4=C12	C5=C11+C28+C29 C27=C34+C37 C47=C48+C50 C31=C35+C38 C36=C70 C60=C61+C71 C72=C76+C77 C78	C6=C10 C24=C25 C33=C35 C36=C70 C75	C7	C8	C9	C13	C14	C16	C17	C19
Tramo 8													
Tramo 7													
Segunda planta													

Resumen Acero	Long. total	Peso+10%	Total
Porcentaje 1 a 13	(m)	(kg)	
Pilares			
AH-500CN	06	6970.9	1702
08	736.4	320	
010	59.9	41	
012	3955.2	3963	
016	1086.2	1886	
020	363.6	986	
025	875.2	3710	12508

Cuadro de pilares
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

C20	C21=C39	C22=C38	C28=C56 C68	C29	C30	C31	C32	C40	C41	C43	C44	C45=C63	C46=C62	C49=C59	C52	C53	C54	C55	C64	C65	C66	C67	C69=C74	C73
Tramo 2																								
Tramo 1																								
Planta Baja																								
Cimentación																								

Cuadro de pilares
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

C64	C65	C66	C67	C69=C74	C73
Tramo 8					
Tramo 7					
Segunda planta					

C64	C65	C66	C67	C69=C74	C73
Tramo 5					
Tramo 4					
Tramo 3					

C1=C15	C2=C18 C42	C3	C4=C12	C5=C11+C28+C29 C27=C34+C37 C47=C48+C50 C31=C35+C38 C36=C70 C60=C61+C71 C72=C76+C77 C78	C6=C10 C24=C25 C33=C35 C36=C70 C75	C7	C8	C9	C13	C14	C16	C17	C19
Tramo 2													
Tramo 1													
Planta Baja													
Cimentación													

Resumen Acero	Long. total	Peso+10%	Total
Porcentaje 1 a 13	(m)	(kg)	
Pilares			
AH-500CN	06	6970.9	1702
08	736.4	320	
010	59.9	41	
012	3955.2	3963	
016	1086.2	1886	
020	363.6	986	
025	875.2	3710	12508



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

CONTENIDO
PLANO DE DETALLES DE ESTRIBADO

LAMINA

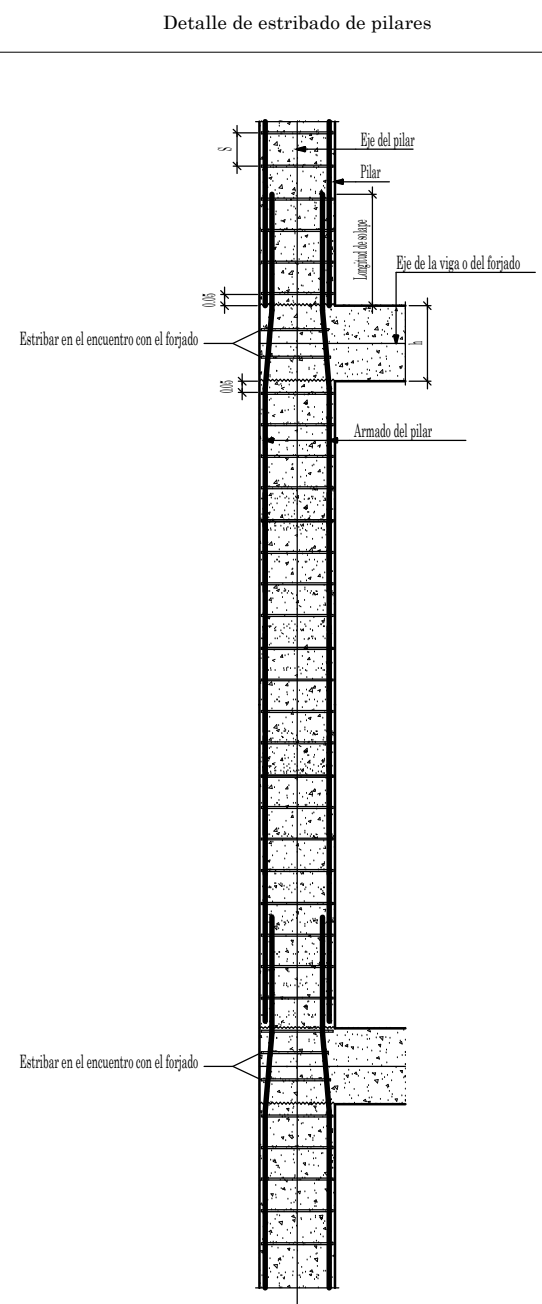
DISEÑO DEL CENTRO DE CAPACITACIÓN DEL B. SANTIAGO (Ciudad de Tarja)

UNIVERSITARIO: VILTE COLQUE JHONATAN JAVIER

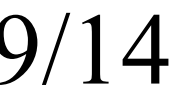
ESCALA: INDICADA

FECHA: 23/06/2025

8/14



Esc. 1:100

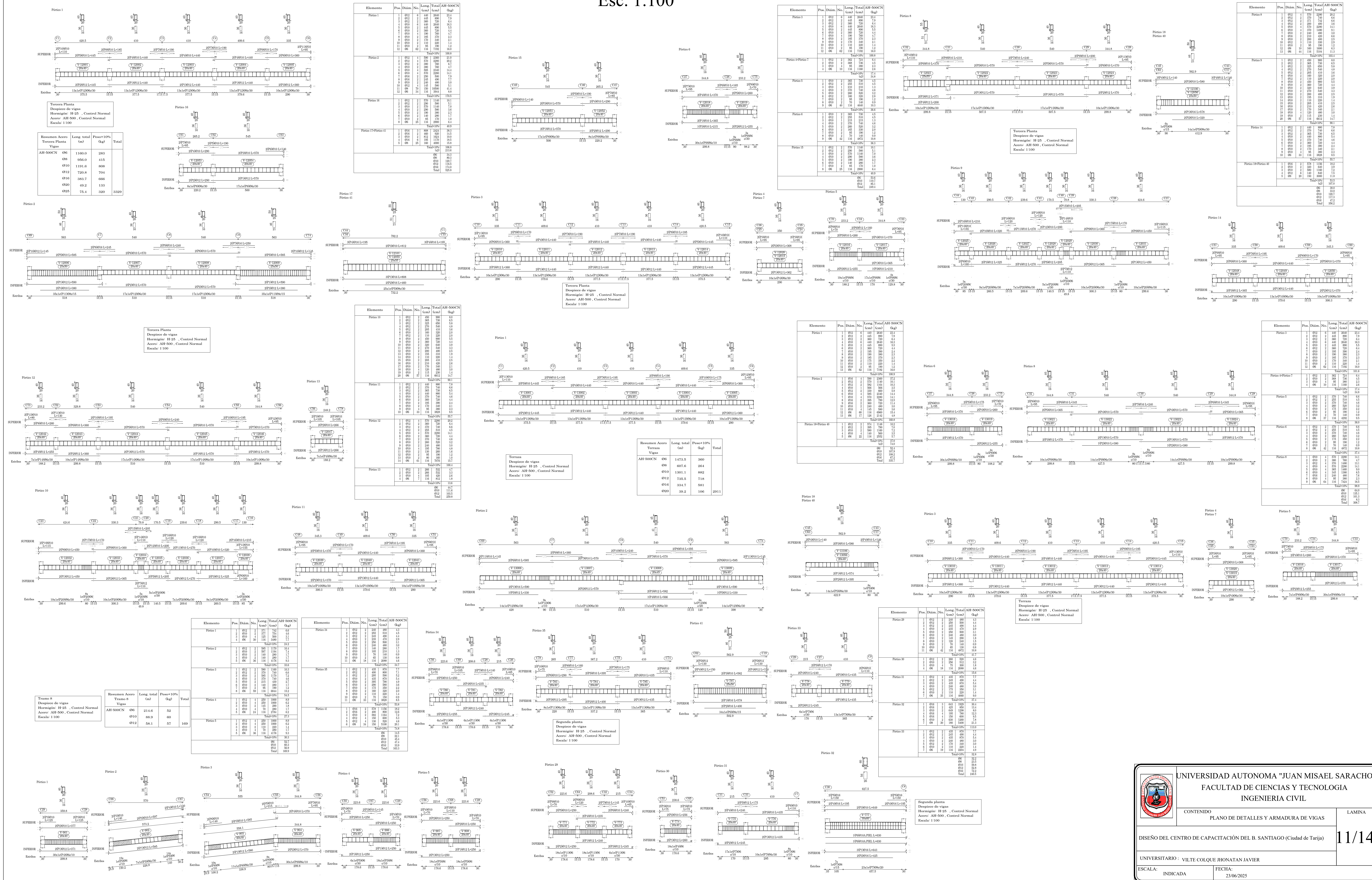


Esc. 1:100



PLANO DE DETALLES Y ARMADURA DE VIGAS

Esc. 1:100



PLANO DE DETALLES Y ARMADURA DE VIGAS

Esc. 1:100

