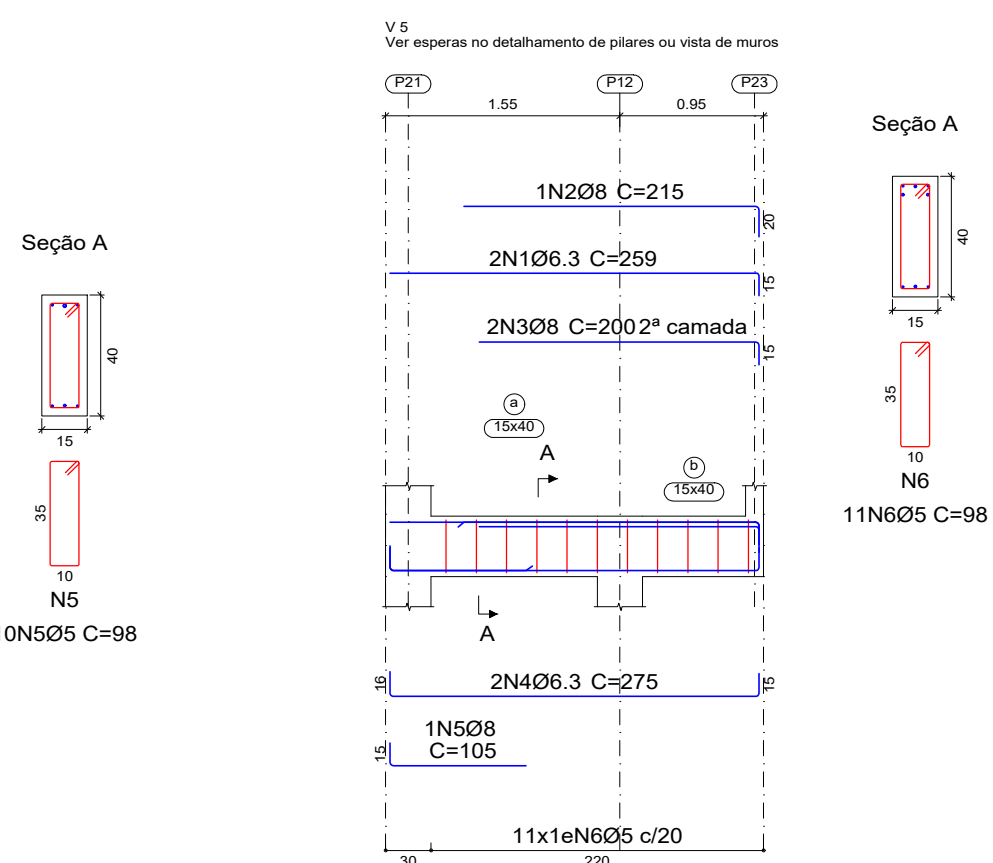
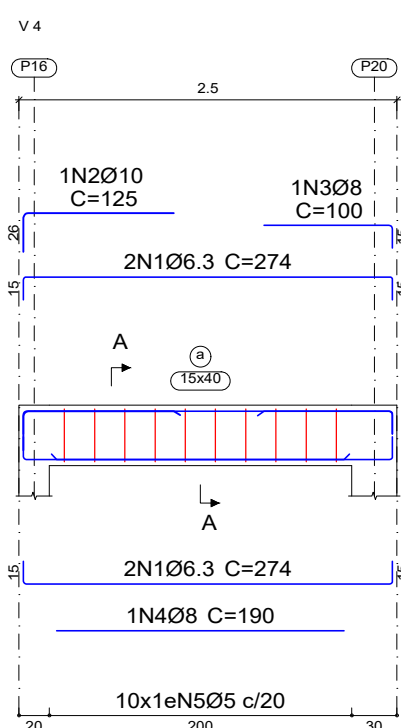
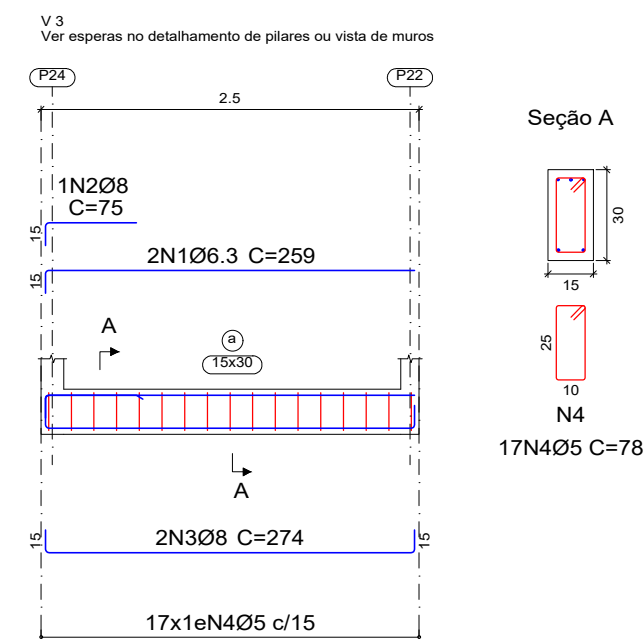
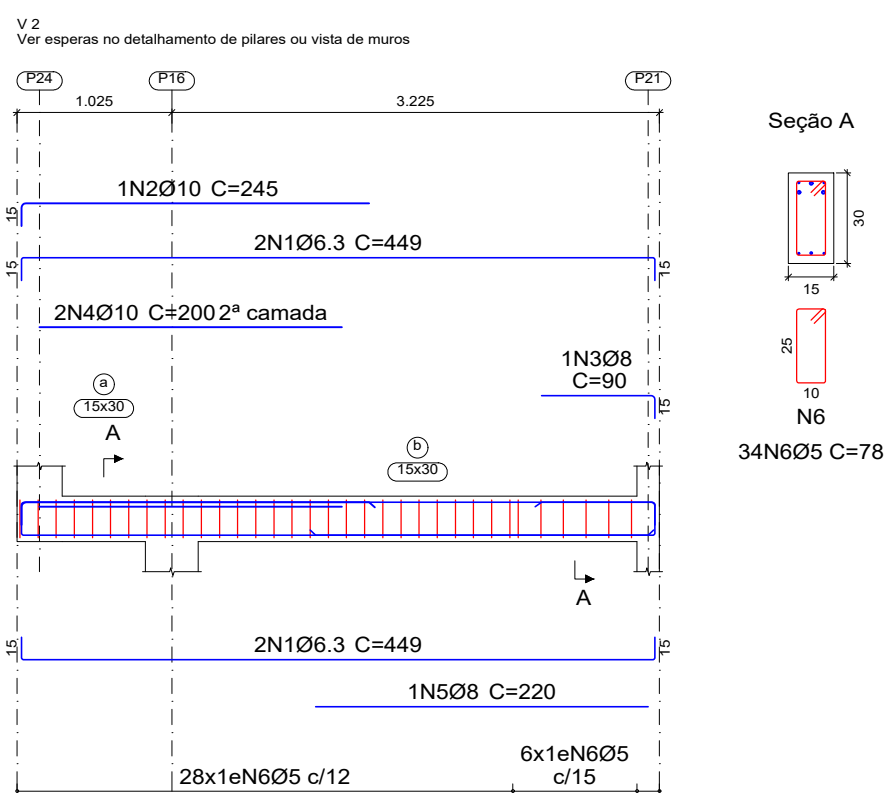
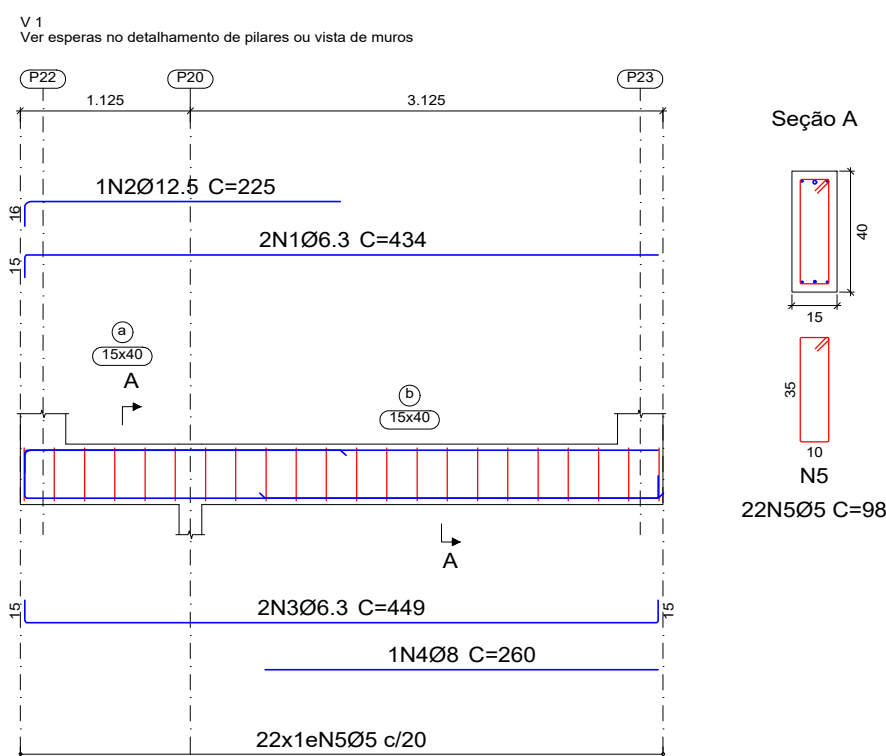
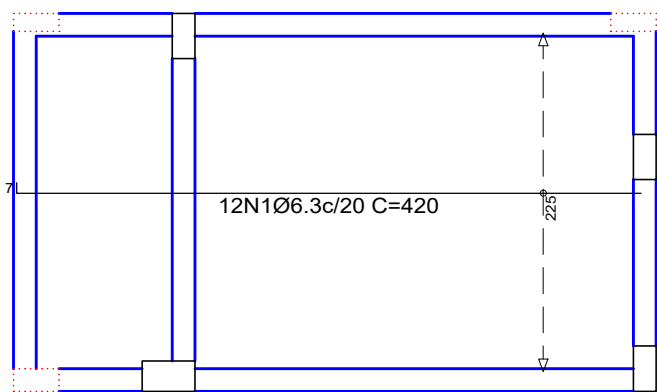


- PILAR QUE NASCE EM FUNDAÇÃO
- PILAR QUE NASCE EM VIGA
- PILAR QUE SEQUE
- PILAR QUE MORRE
- PILAR QUE REDUZ DE SEÇÃO

LAJE RESERVATORIO  
Armadura longitudinal inferior  
Concreto: C25, em geral  
CA-50 e CA-60  
Escala: 1:50

Resumo Aço	Comp. total (m)	Peso (kg)
LAJE RESERVATORIO Armadura longitudinal inferior CA-50	Ø6.3	50.4
CA-60		12

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal inferior	1	Ø6.3	12	7	413	420	5040	12.3		
								Total:	12.3	
								Ø6.3:	12.3	0.0
								Total:	12.3	0.0



LAJE RESERVATORIO  
Desenho de vigas  
Concreto: C25, em geral  
Aço das barras: CA-50 e CA-60  
Aço dos estribos: CA-50 e CA-60  
Escala vigas 1:50  
Escala seções 1:25  
Escala aberturas 1:25

Resumo Aço	Comp. total (m)	Peso (kg)	Total
CA-50	Ø6.3	62.4	15
	Ø8	22.0	9
	Ø10	7.7	5
	Ø12.5	2.3	2
CA-60	Ø5	81.9	13
Total			44

LAJE RESERVATORIO  
Armadura transversal inferior  
Concreto: C25, em geral  
CA-50 e CA-60  
Escala: 1:50

Resumo Aço	Comp. total (m)	Peso (kg)
LAJE RESERVATORIO Armadura transversal inferior CA-50	Ø6.3	46.8
CA-60		11

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura transversal inferior	1	Ø6.3	18	7	246	7	260	4680	11.5	
								Total:	11.5	
								Ø6.3:	11.5	0.0
								Total:	11.5	0.0

LAJE RESERVATORIO  
Armadura longitudinal superior  
Concreto: C25, em geral  
CA-50 e CA-60  
Escala: 1:50

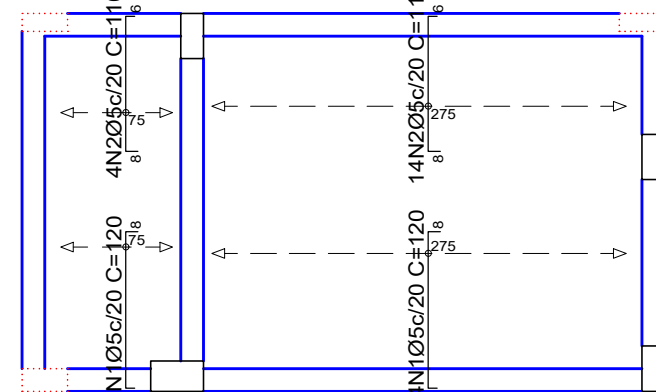
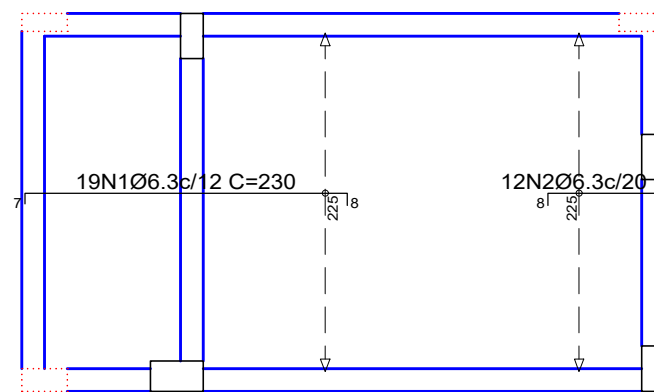
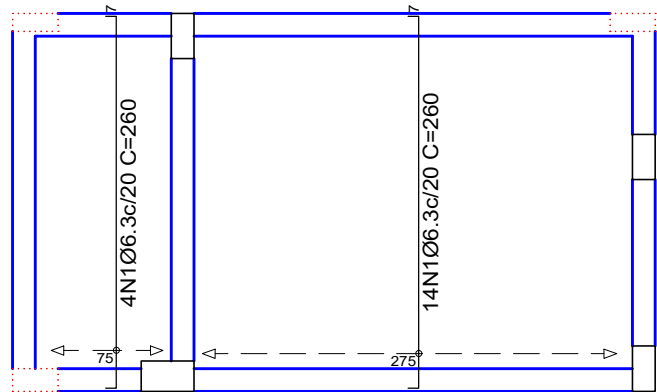
Resumo Aço	Comp. total (m)	Peso (kg)
LAJE RESERVATORIO Armadura longitudinal superior CA-50	Ø6.3	54.5
CA-60		13

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal superior	1	Ø6.3	19	7	215	8	230	4370	10.7	
	2	Ø6.3	12	8	75	7	90	1080	2.6	
								Total:	13.3	
								Ø6.3:	13.3	0.0
								Total:	13.3	0.0

LAJE RESERVATORIO  
Armadura transversal superior  
Concreto: C25, em geral  
CA-50 e CA-60  
Escala: 1:50

Resumo Aço	Comp. total (m)	Peso (kg)
LAJE RESERVATORIO Armadura transversal superior CA-60	Ø5	41.4
CA-50		6

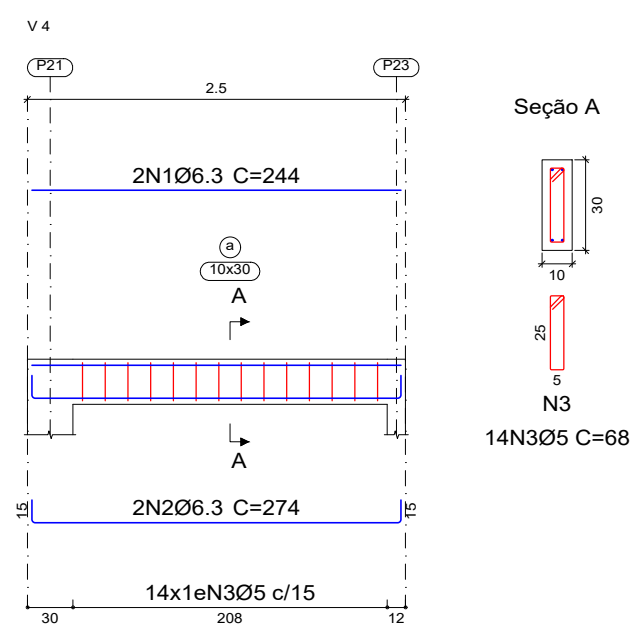
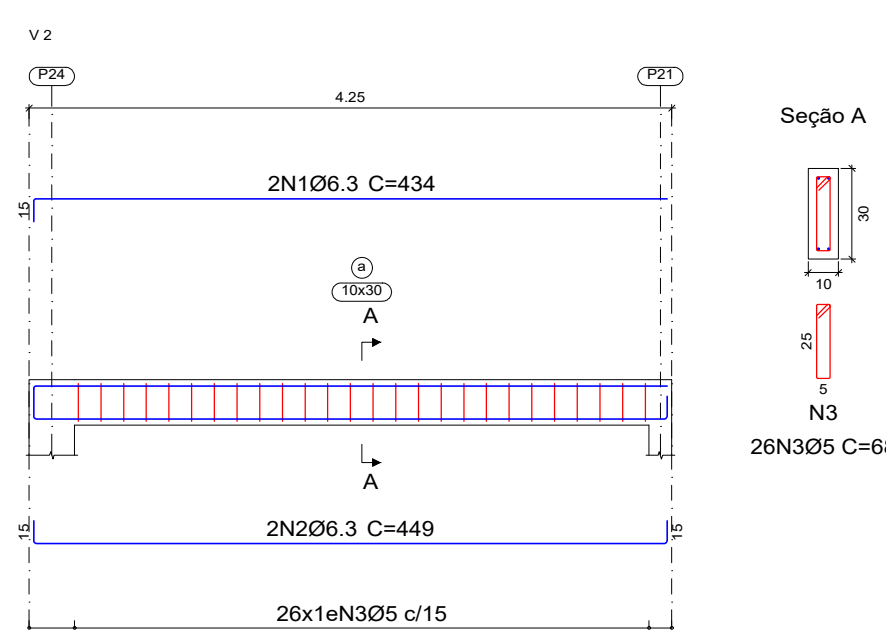
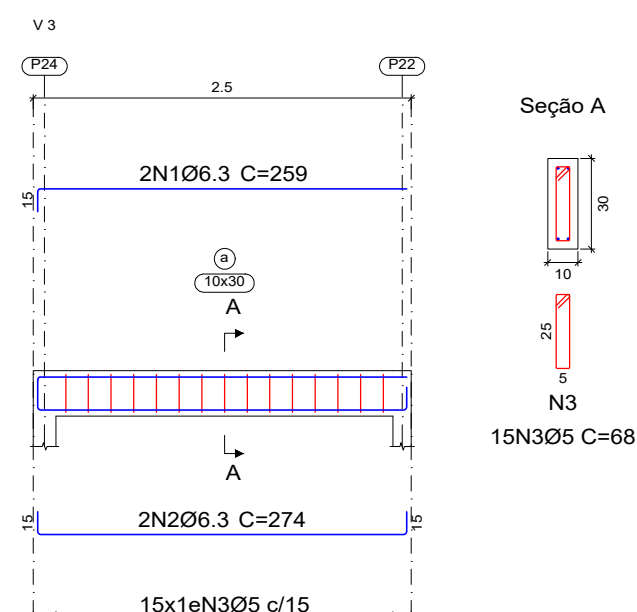
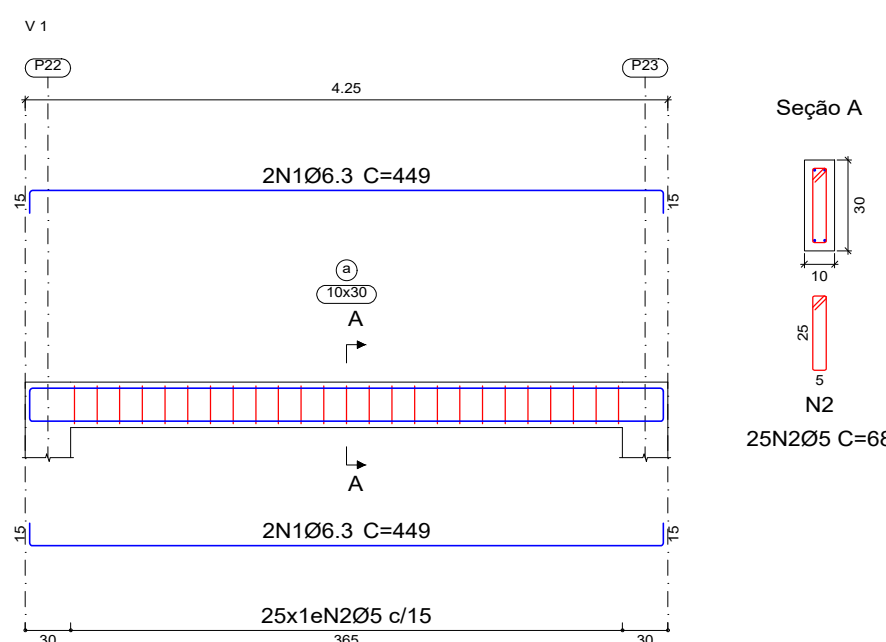
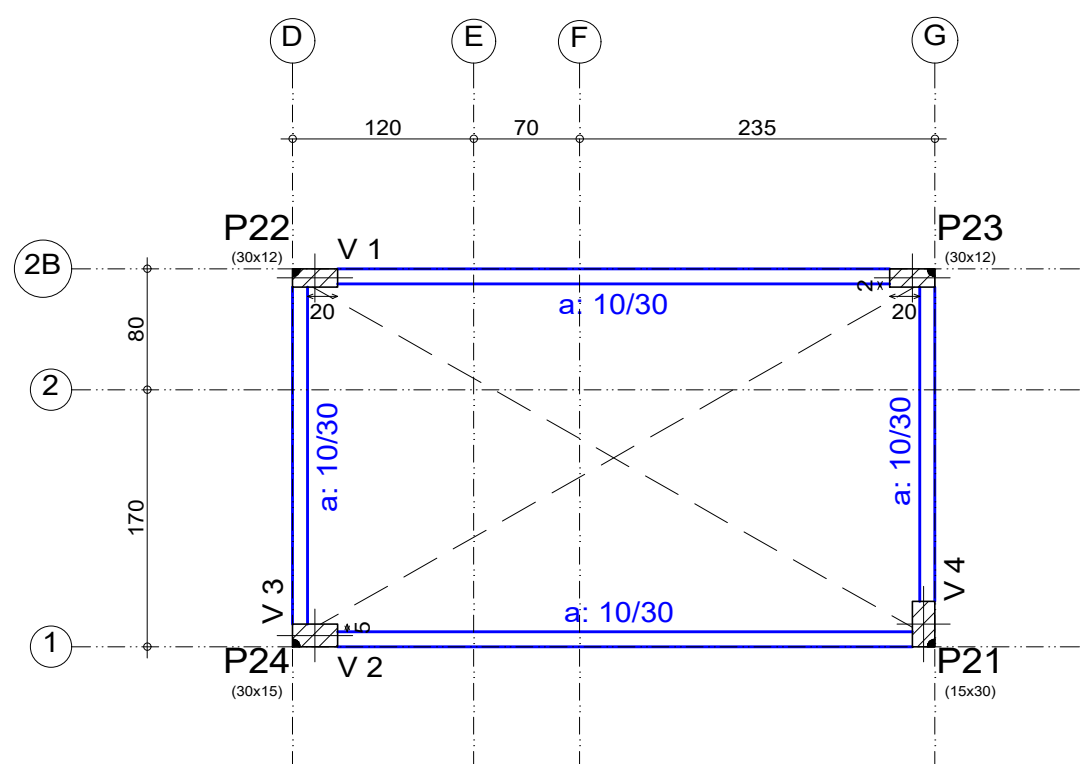
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura transversal superior	1	Ø5	18	6	106	8	120	2160		3.4
	2	Ø5	18	8	96	6	110	1980		3.1
								Total:	6.5	
								Ø5:	0.0	6.5
								Total:	0.0	6.5



CINTAMENTO RESERVATORIO  
Piso  
Escala: 1:50

CINTAMENTO RESERVATORIO - Superfície total: 1.34 m<sup>2</sup>

Elemento	Formas (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Barra (kg)
Vigas fundo	1.18	0.41	22
Forma lateral	7.06	0.22	26
Pilares (Sup. Formas)	4.46	0.22	26
Total	12.70	0.63	48
Índices (por m <sup>2</sup> )	9.478	0.470	35.82



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	Ø6.3	4	419	449	1796	4.4	
	2	Ø5	25	68	1700			2.7
					Total:	4.4	2.7	
V 2	1	Ø6.3	2	419	434	868	2.1	
	2	Ø6.3	2	419	449	898	2.2	
	3	Ø5	26	68	1768			2.8
					Total:	4.3	2.8	
V 3	1	Ø6.3	2	244	259	518	1.3	
	2	Ø6.3	2	244	274	548	1.3	
	3	Ø5	15	68	1020			1.6
					Total:	2.6	1.6	
V 4	1	Ø6.3	2	244	244	488	1.2	
	2	Ø6.3	2	244	274	548	1.3	
	3	Ø5	14	68	952			1.5
					Total:	2.5	1.5	
					Ø5:	0.0	8.6	
					Ø6.3:	13.8	0.0	
					Total:	13.8	8.6	

CINTAMENTO RESERVATORIO  
Desenho de vigas  
Concreto: C25, em geral  
Aço das barras: CA-50 e CA-60  
Aço dos estribos: CA-50 e CA-60  
Escala vigas 1:50  
Escala seções 1:25  
Escala aberturas 1:25

Resumo Aço	Comp. total (m)	Peso (kg)	Total
CA-50	Ø6.3	56.6	14
CA-60	Ø5	54.4	9
Total			23

## REVISÕES

REV	POR	DATA	DESCRIÇÃO
00	C.M.	02/01/2023	EMISSION INICIAL

## PROJETO ESTRUTURAL EM CONCRETO ARMADO

MUSEU MARIANO PROCÓPIO - VESTIÁRIO FUNCIONÁRIOS			
ENDEREÇO: RUA MARIANO PROCÓPIO, 1100, BAIRRO MARIANO PROCÓPIO, JUIZ DE FORA - MG			
[VIGAS E LAJES ABRIGO DO RESERVATÓRIO]			
AUTOR:	AUTOR:	AUTOR:	
ARQ. VIVIANE CATTEN MORENO CAU/ES: A158072-8	ENG. CARLOS RENATO PRÓCULO CREA/ES: 031715-D	ENG. CLAYTON MONTANARO CREA/ES: 047798/D	