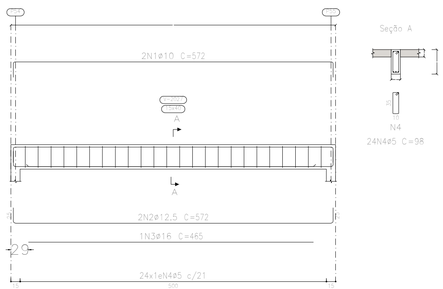
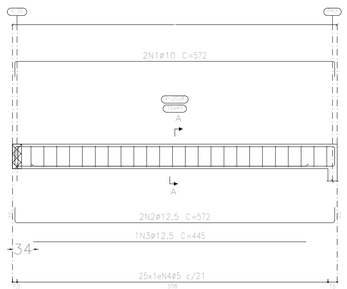
V 11
Escala 1:50



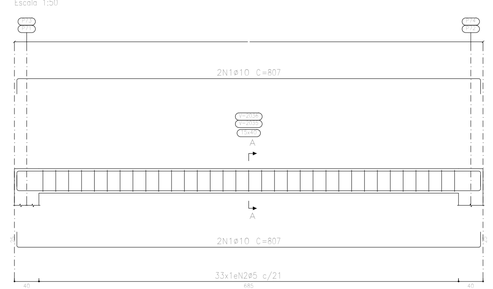
Seção A

V 12
Escala 1:50



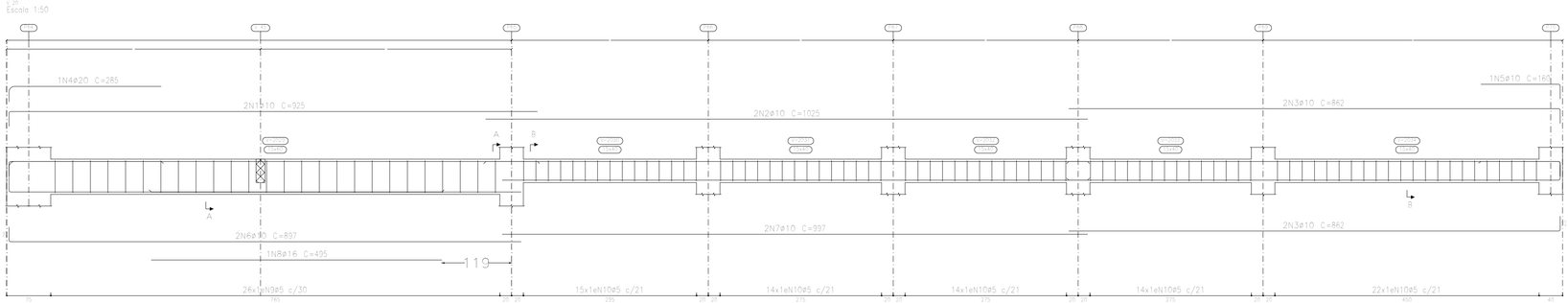
Seção A

V 21
V 22
Escala 1:50

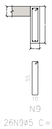


Seção A

V 20
Escala 1:50

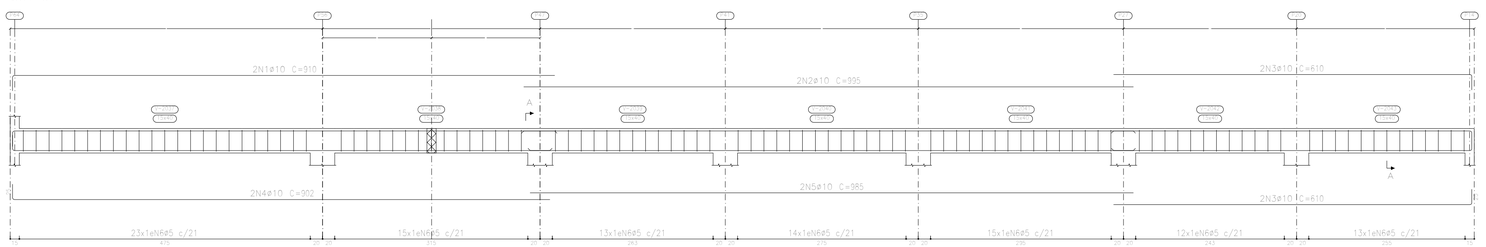


Seção A



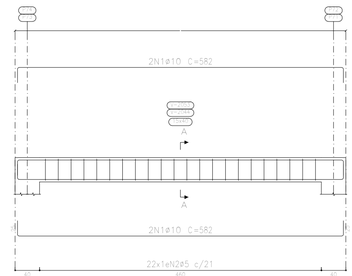
Seção B

V 21
Escala 1:50



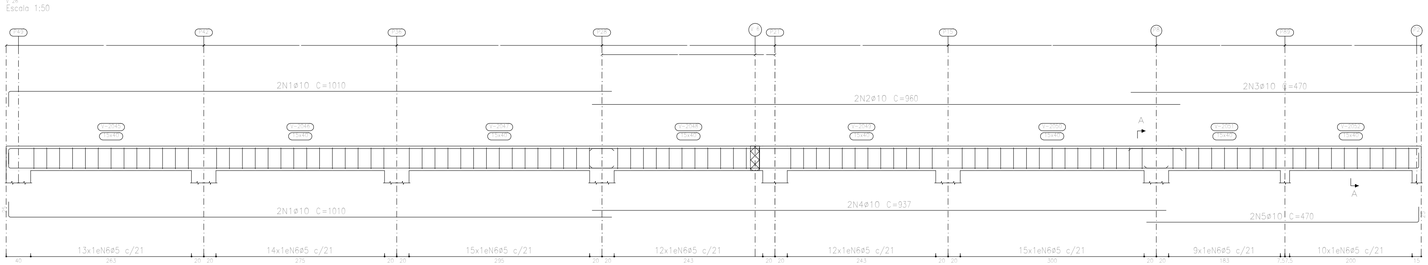
Seção A

V 24
V 27
Escala 1:50

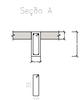


Seção A

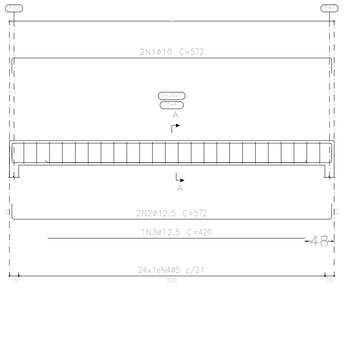
V 26
Escala 1:50



Seção A

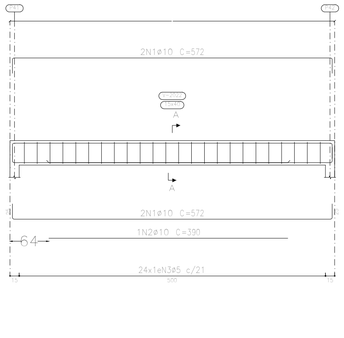


V 11
Escala 1:50



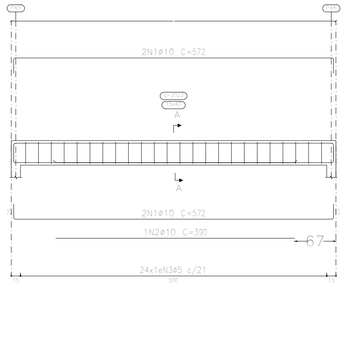
Seção A

V 12
Escala 1:50



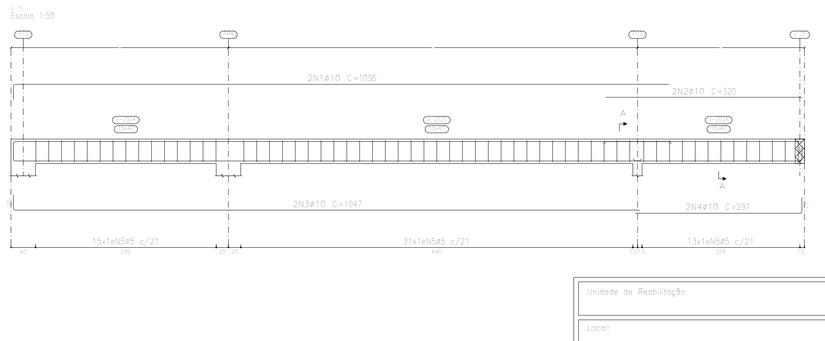
Seção A

V 13
Escala 1:50



Seção A

V 15
Escala 1:50



Seção A

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 11	1	ø10	2	572	572	1144	7,0	
	2	ø12,5	2	572	572	1144	11,0	
	3	ø12,5	1	420	420	420	4,0	
	4	ø5	24	98	98	2352		3,7
					Total+10%:		24,2	4,1
V 12	1	ø10	4	572	572	2288	14,1	
	2	ø10	1	390	390	390	2,4	
	3	ø5	24	98	98	2352		3,7
					Total+10%:		18,2	4,1
V 13	1	ø10	4	572	572	2288	14,1	
	2	ø10	1	390	390	390	2,4	
	3	ø5	24	98	98	2352		3,7
					Total+10%:		18,2	4,1
V 15	1	ø10	2	1095	1095	2190	13,5	
	2	ø10	2	320	320	640	3,9	
	3	ø10	2	1047	1047	2094	12,9	
	4	ø10	2	297	297	594	3,7	
	5	ø5	59	98	98	5782		9,1
					Total+10%:		37,4	16,0
V 17	1	ø10	2	572	572	1144	7,0	
	2	ø12,5	2	572	572	1144	11,0	
	3	ø16	1	465	465	465	7,3	
	4	ø5	24	98	98	2352		3,7
					Total+10%:		27,8	4,1
V 19	1	ø10	2	572	572	1144	7,0	
	2	ø12,5	2	572	572	1144	11,0	
	3	ø12,5	1	445	445	445	4,3	
	4	ø5	25	98	98	2450		3,8
					Total+10%:		24,5	4,2
V 20	1	ø10	2	925	925	1850	11,4	
	2	ø10	2	1025	1025	2050	12,6	
	3	ø10	4	862	862	3448	21,2	
	4	ø20	1	285	285	285	7,0	
	5	ø10	1	160	160	160	1,0	
	6	ø10	2	897	897	1794	11,1	
	7	ø10	2	997	997	1994	12,3	
	8	ø16	1	495	495	495	7,8	
	9	ø5	26	138	138	3588		5,6
	10	ø5	79	98	98	7742		12,2
					Total+10%:		92,8	19,6
V 21=V 22	1	ø10	4	807	807	3228	19,9	
	2	ø5	33	98	98	3234		5,1
					Total+10%: (x2):		21,9 43,8	5,6 11,2
V 23	1	ø10	2	910	910	1820	11,2	
	2	ø10	2	995	995	1990	12,3	
	3	ø10	4	610	610	2440	15,0	
	4	ø10	2	902	902	1804	11,1	
	5	ø10	2	985	985	1970	12,1	
	6	ø5	105	98	98	10290		16,2
					Total+10%:		67,9	17,8
V 24=V 27	1	ø10	4	582	582	2328	14,3	
	2	ø5	22	98	98	2156		3,4
					Total+10%: (x2):		15,7 31,4	3,7 7,4
V 26	1	ø10	4	1010	1010	4040	24,9	
	2	ø10	2	960	960	1920	11,8	
	3	ø10	2	470	470	940	5,8	
	4	ø10	2	937	937	1874	11,5	
	5	ø10	2	470	470	940	5,8	
	6	ø5	100	98	98	9800		15,4
					Total+10%:		65,8	16,9
					ø5:		0,0	103,5
					ø10:		382,4	0,0
					ø12,5:		45,4	0,0
					ø16:		16,5	0,0
					ø20:		7,7	0,0
					Total:		452,0	103,5

Piso 2
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 1:50
Escala aberturas 1:50

Unidade de Reabilitação	Data: 10/10/2024
Local: Unidade de Reabilitação	Número de desenho:
Promotor: Prefeitura Municipal de Campos de Júlio	
Projeto Estrutural	Escala: Indicada
Eduardo Romparelli Tosetto Engenheiro Civil Número do CREA: 1220503037	Data: 10/10/2024