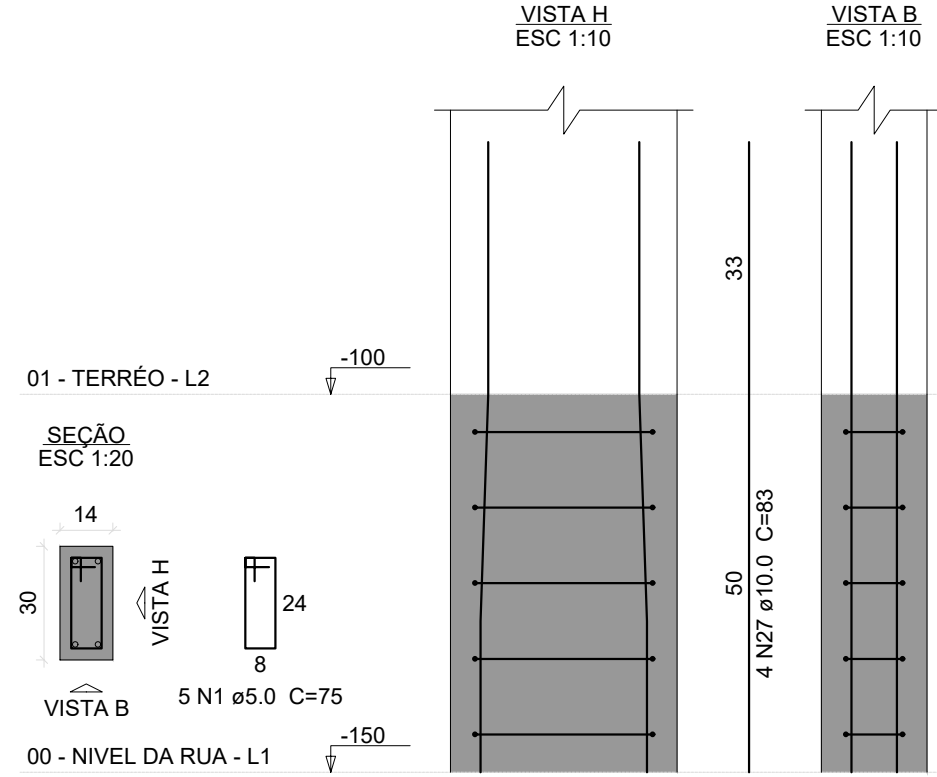
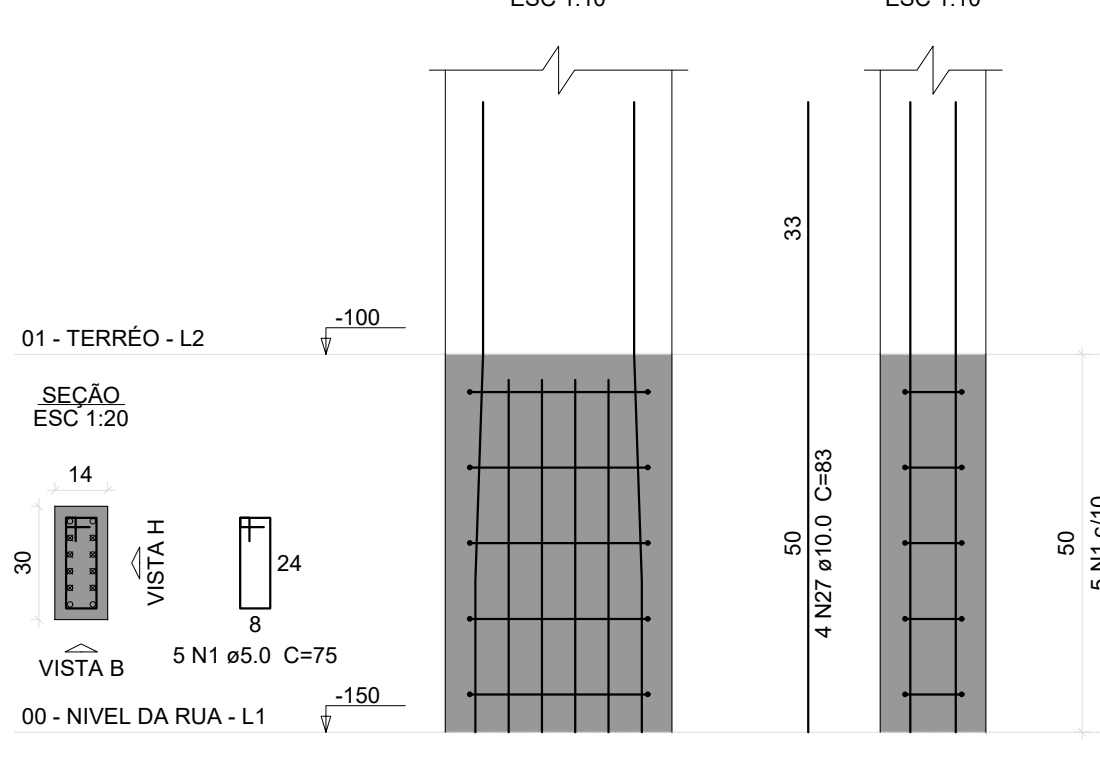


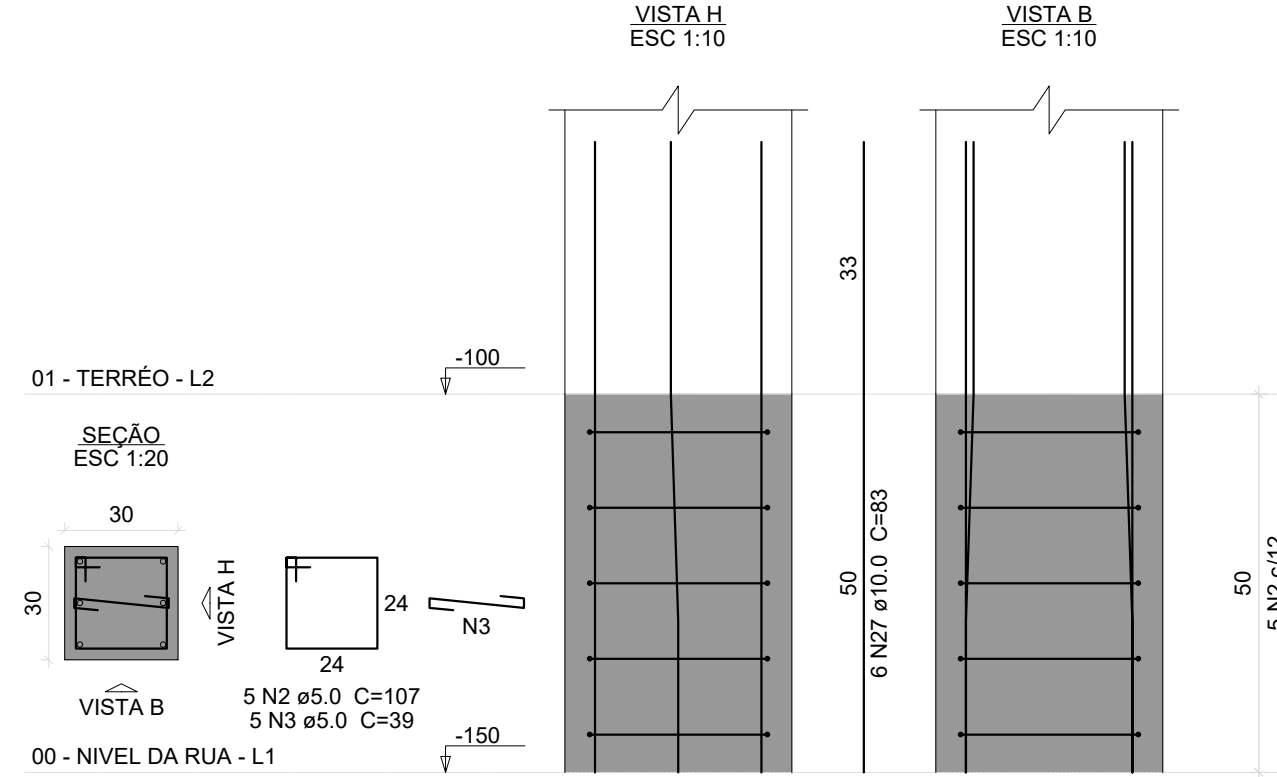
P1=P4=P5=P7=P8=P9=P15=P16



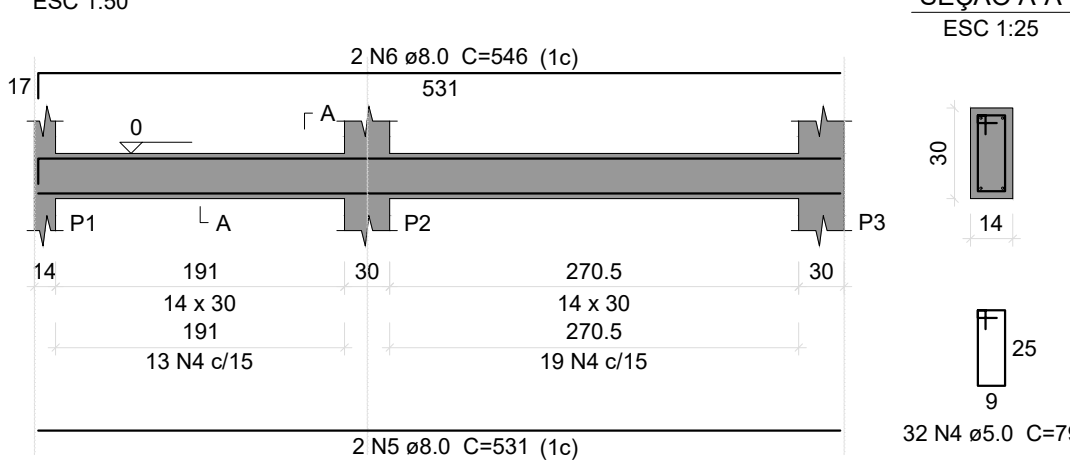
P2



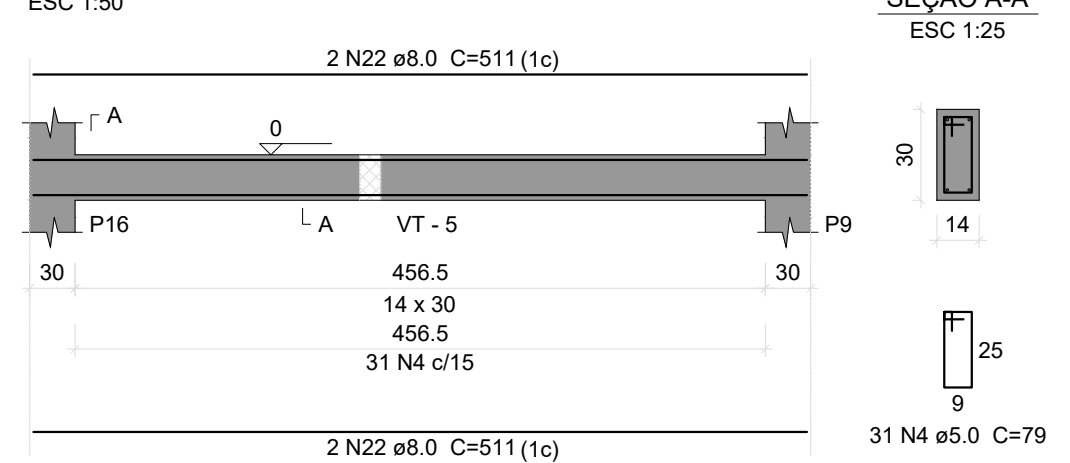
P3=P6=P10=P11=P12=P13=P14=P17=P18=
=P19=P20=P21=P22



VT - 1



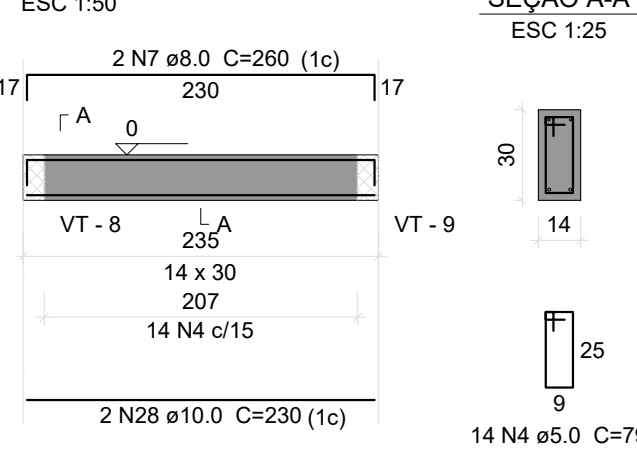
VT - 10



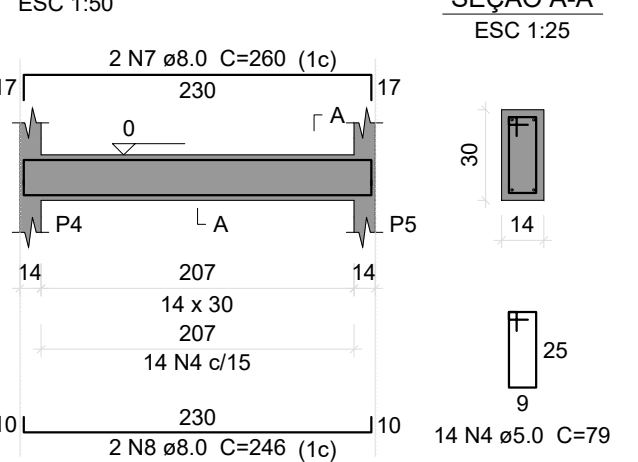
Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
8xP1	1	5.0	45	75	3375
VT - 1	2	5.0	65	107	6955
VT - 4	3	5.0	65	39	2535
VT - 7	4	5.0	441	79	34839
VT - 10	5	8.0	2	531	1062
VT - 13	6	8.0	2	546	1092
	7	8.0	4	260	1040
	8	8.0	2	246	492
	9	8.0	2	386	772
	10	8.0	4	400	1600
	11	8.0	2	370	740
	12	8.0	2	868	1736
	13	8.0	2	363	726
	14	8.0	2	1136	2272
	15	8.0	2	154	308
	16	8.0	4	721	2884
	17	8.0	2	724	1448
	18	8.0	2	175	350
	19	8.0	2	521	1042
	20	8.0	2	1175	2350
	21	8.0	2	223	446
	22	8.0	4	511	2044
	23	8.0	4	399	1596
	24	8.0	4	400	1600
	25	8.0	2	393	786
	26	8.0	2	416	832
	27	10.0	114	83	9462
	28	10.0	2	230	460
	29	10.0	4	441	1764
	30	10.0	1	157	157
	31	10.0	2	175	350
	32	10.0	2	705	1410

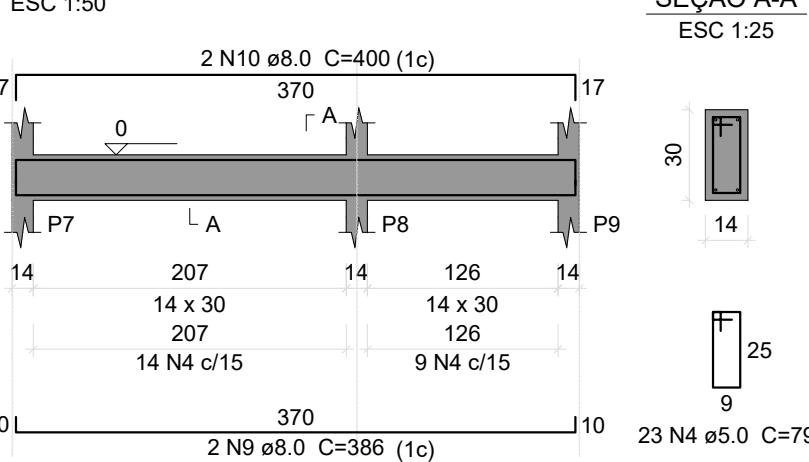
VT - 2



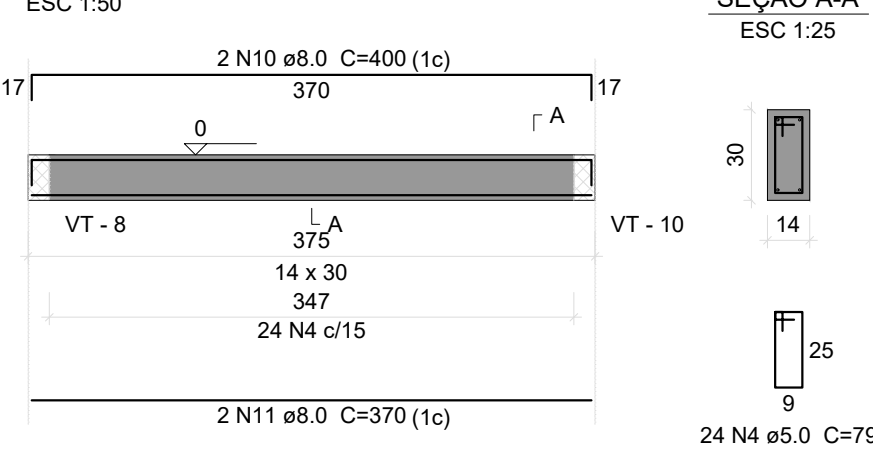
VT - 3



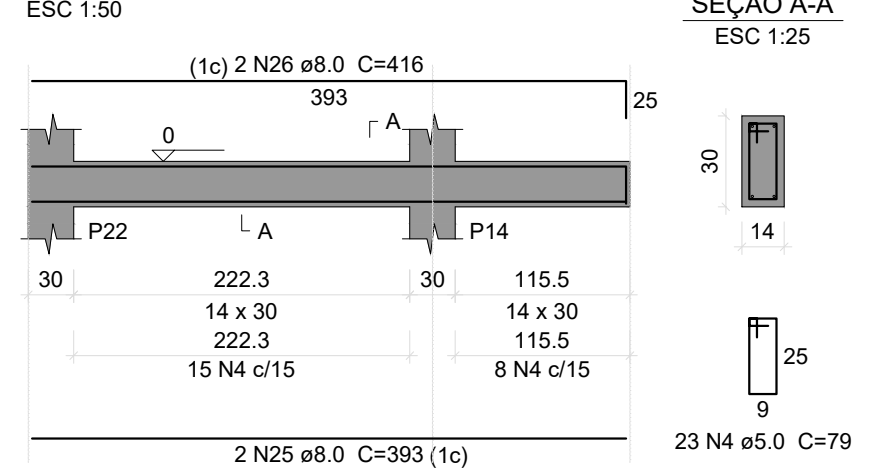
VT - 4



VT - 5



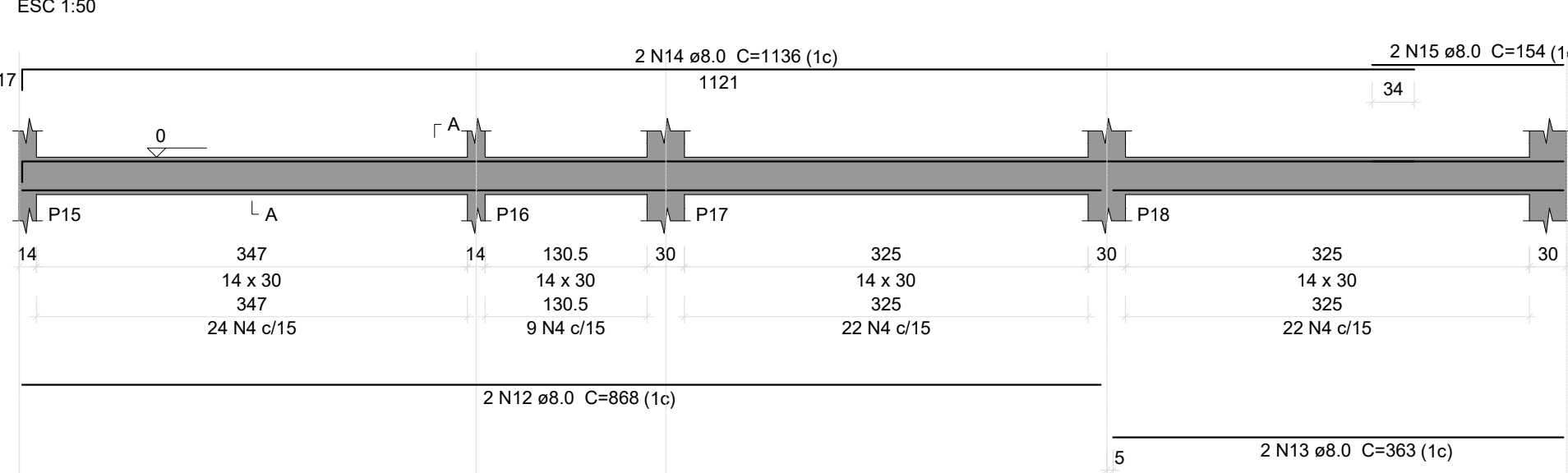
VT - 13



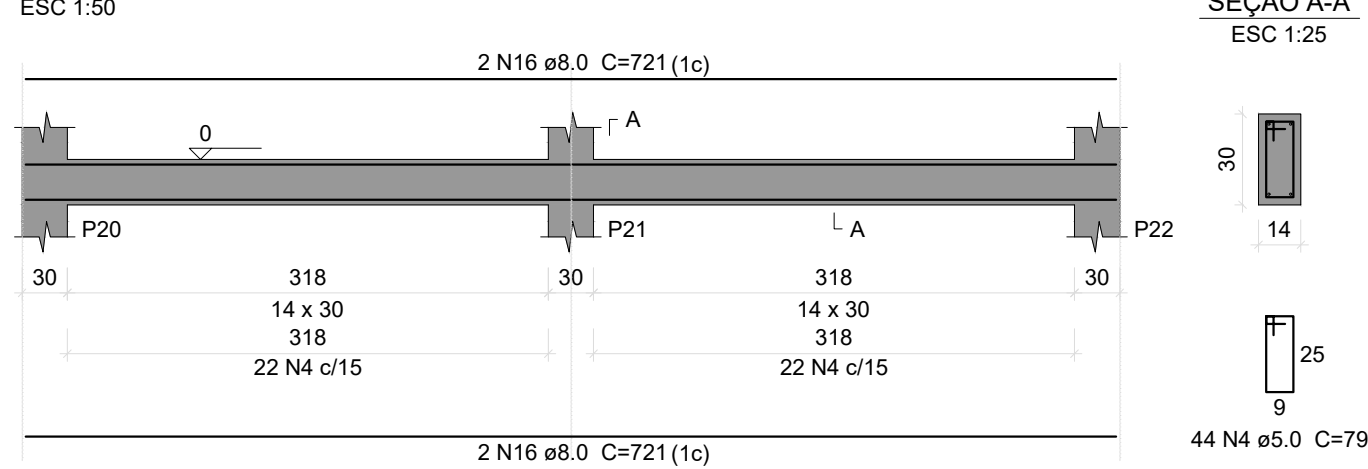
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	272.2	25	118.1
CA60	10.0	136.1	13	92.3
CA60	5.0	477.1	-	80.9
PESO TOTAL (kg)				
CA50	210.4			
CA60	80.9			
Volume de concreto (C-30) = 3.5 m³				
Área de forma = 56.17 m²				

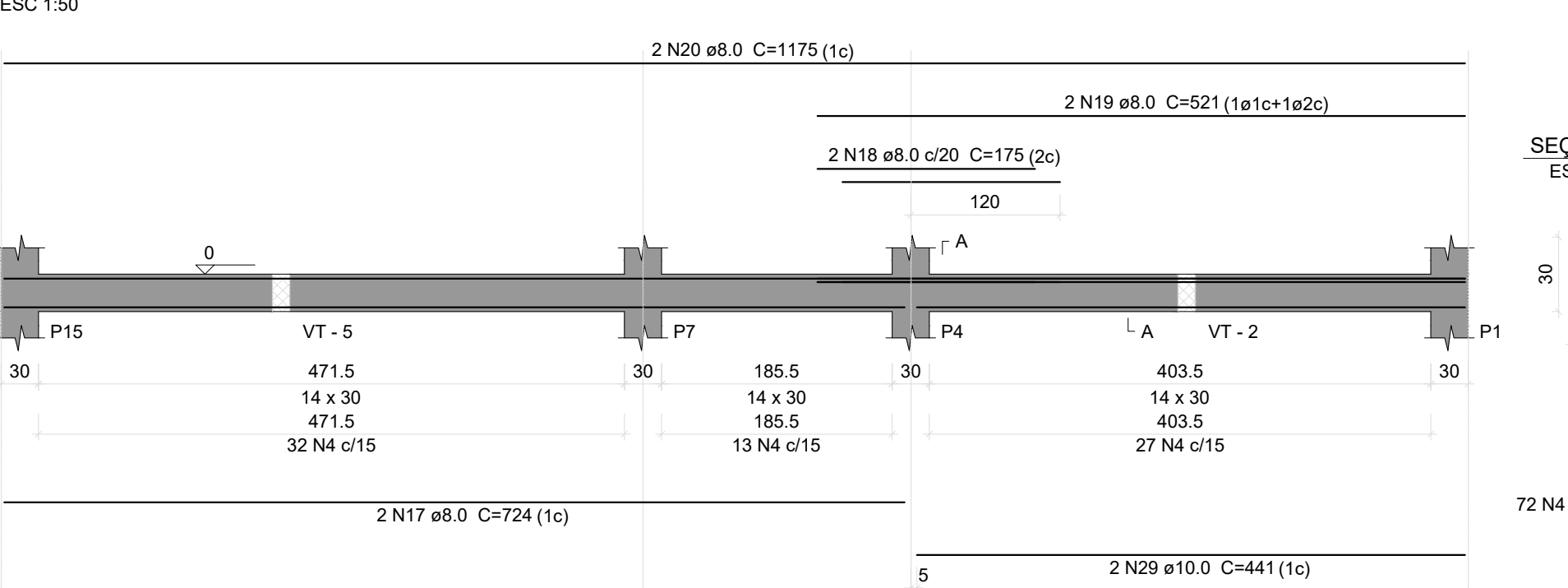
VT - 6



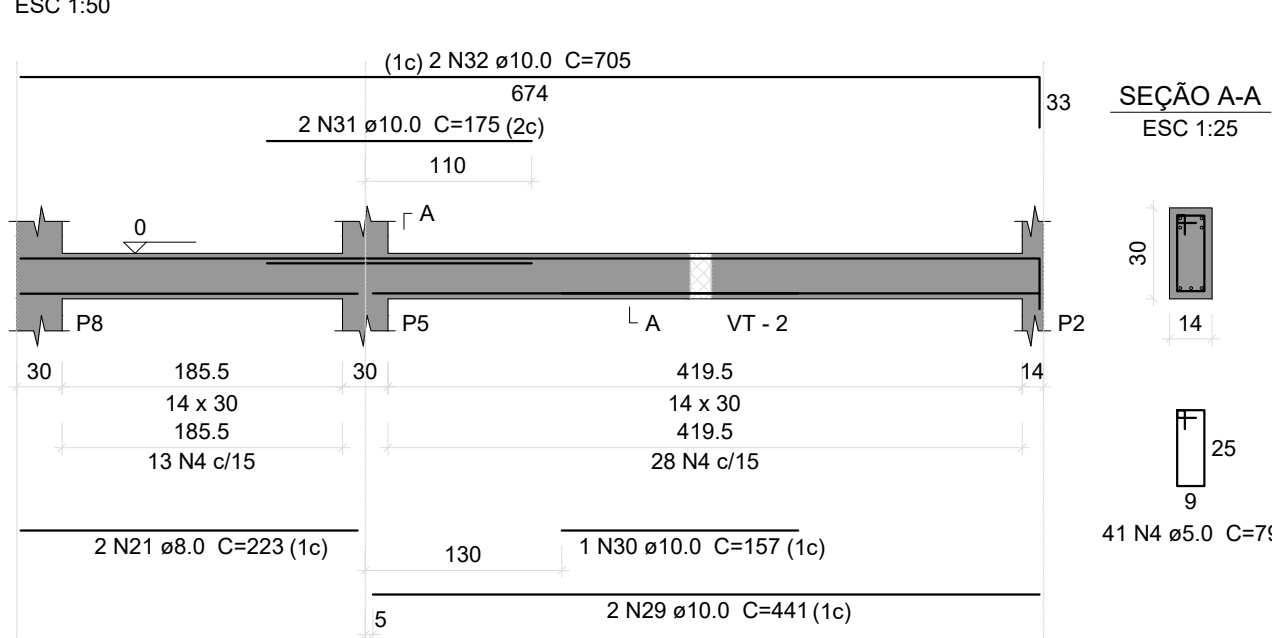
VT - 7



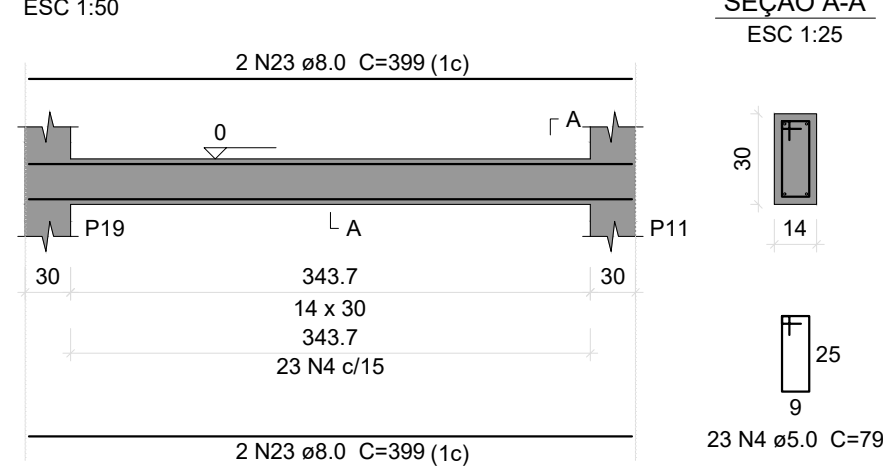
VT - 8



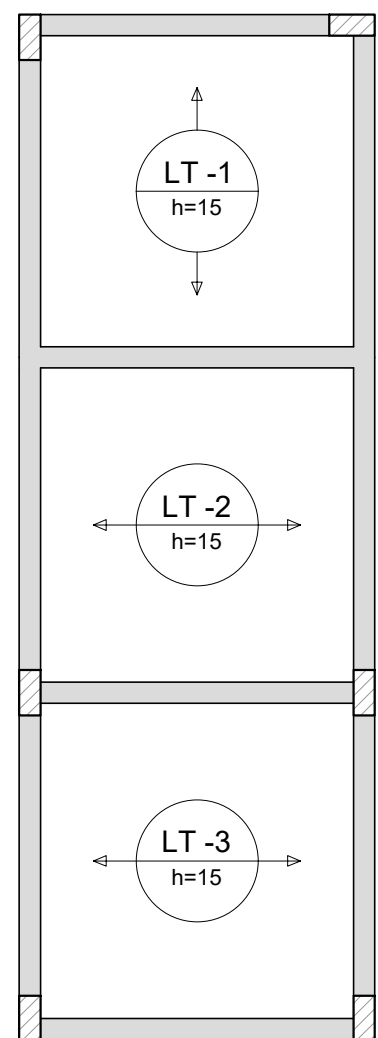
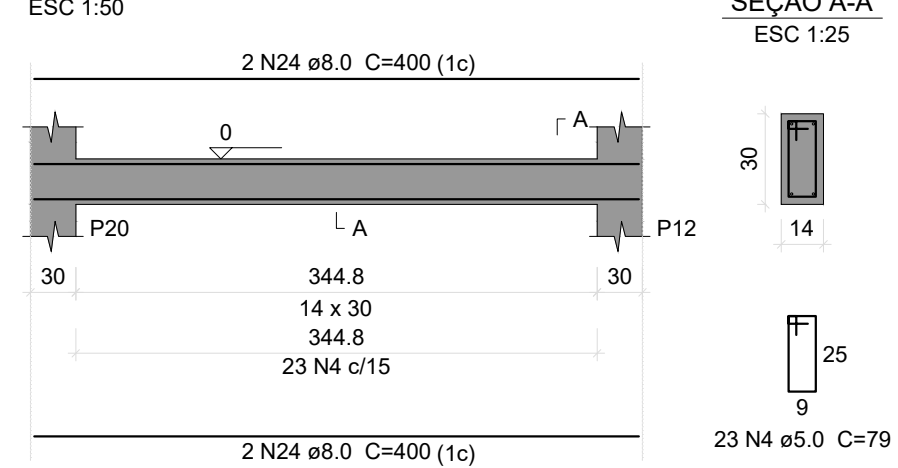
VT - 9



VT - 11

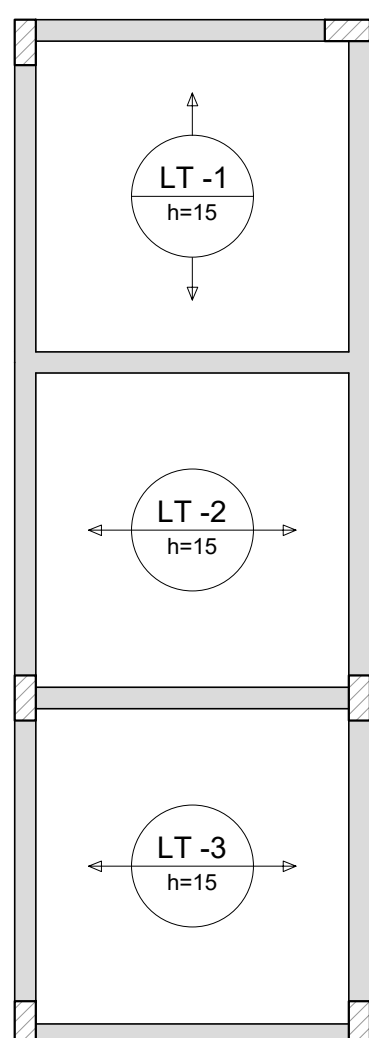


VT - 12



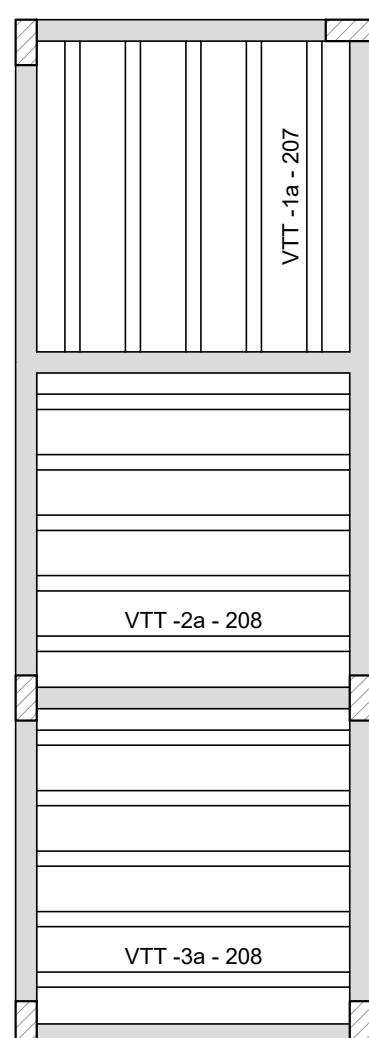
Armação positiva das lajes do pavimento 01 - Terrço (Eixo X)

escala 1:50



Armação positiva das lajes do pavimento 01 - Terrço (Eixo Y)

escala 1:50



Planta de vigotas pré-moldadas

escala 1:50

PROJETO ESTRUTURAL

REFORMA E AMPLIAÇÃO DA ESCOLA MUNICIPAL JOAQUIM PESSOA

Descrição do Projeto: Forma Armação Pilares e Vigas do arrimo; Armação Lajes e Resumo de Aço.	Responsável Técnico: KAREN MARIANA SOARES Engenheira(a) Civil - Crea: 332.425-D/MG	Assinado de forma digital por KAREN MARIANA SOARES Data: 2024.05.19 13:43:03W
Endereço: Comunidade de Macauba, no município de Olhos d' Água-MG.	Contratante: RODRIGO VIEIRA DE MATOS:09977653640 Prefeito Municipal de Olhos d' Água-MG	Assinado de forma digital por RODRIGO VIEIRA DE MATOS:09977653640 Data: 2024.05.19 13:43:03W

Área (m²): 235.00m²	Tipo da Edificação: Infraestrutura	Prancha:
Data: 18 de Maio 2026.	Art.:	05/06
Referência / Número da pasta: VLK - 3PSP - OLH-21	Escala: Indicada	

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Logo: OLHOS D'ÁGUA	Logo: OLHOS D'ÁGUA