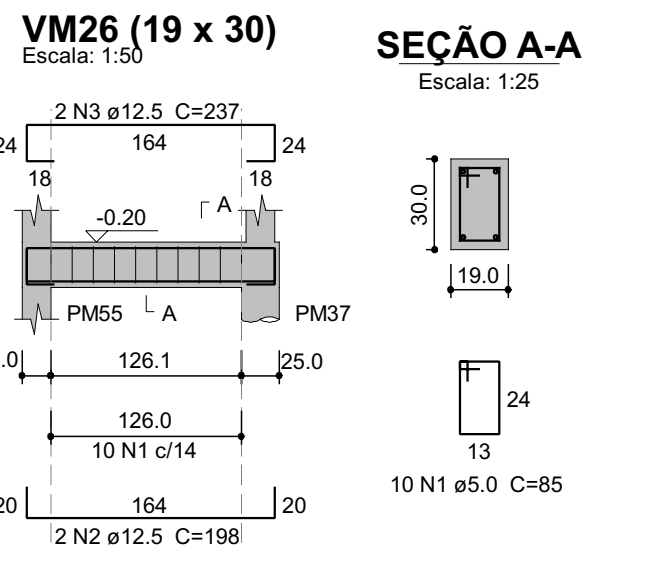
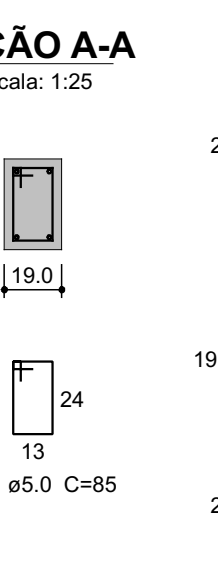
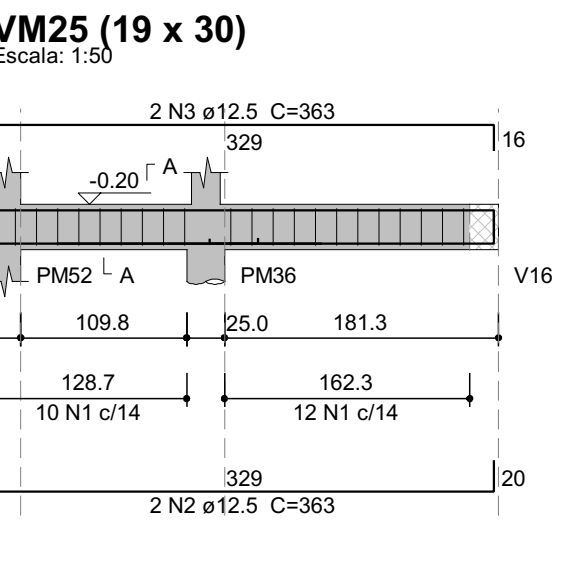
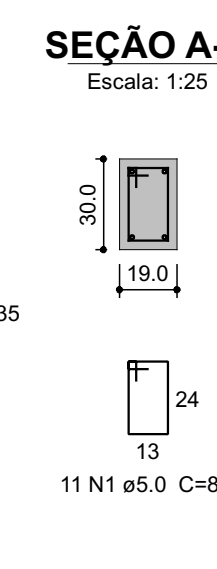
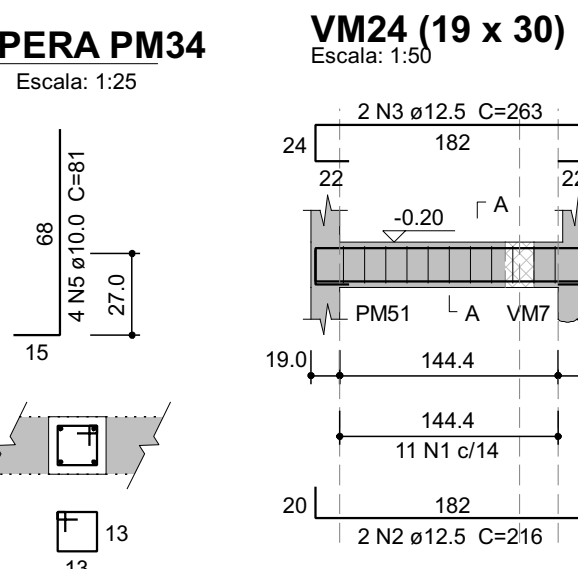
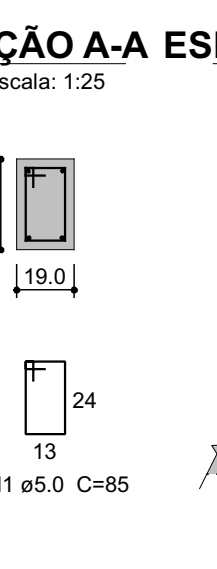
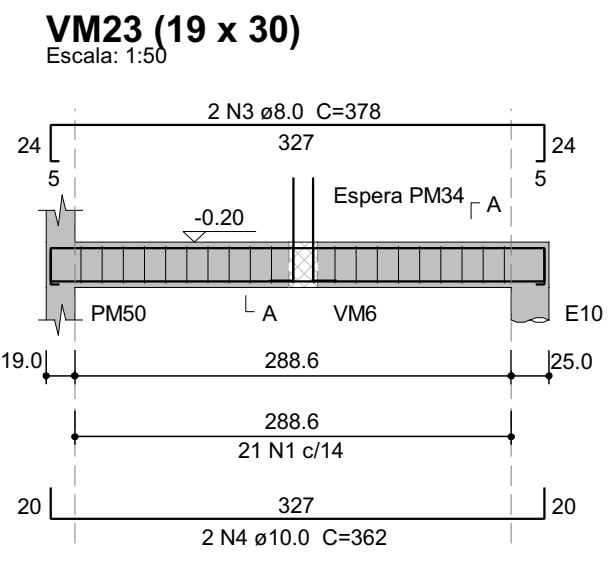
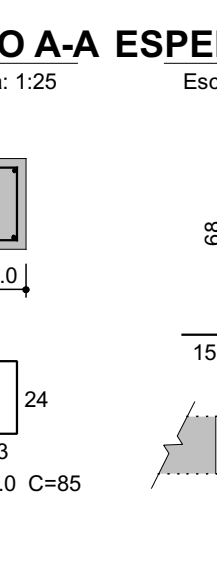
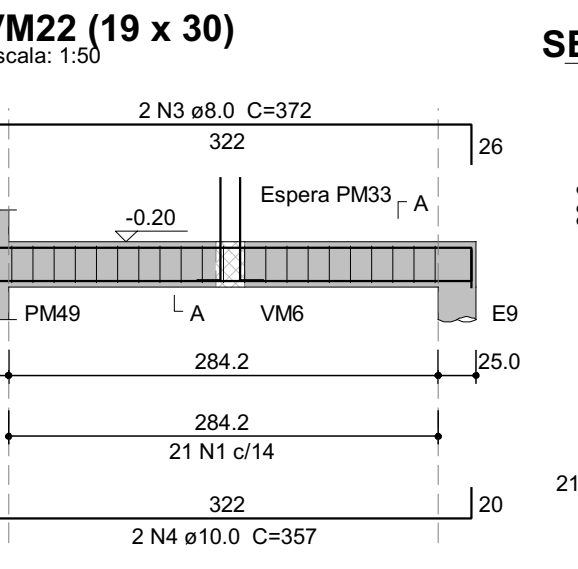
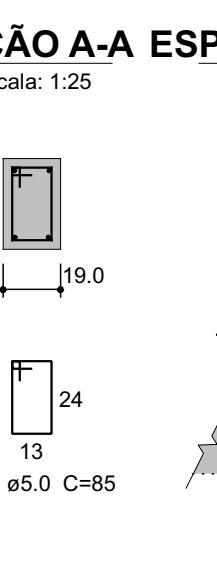
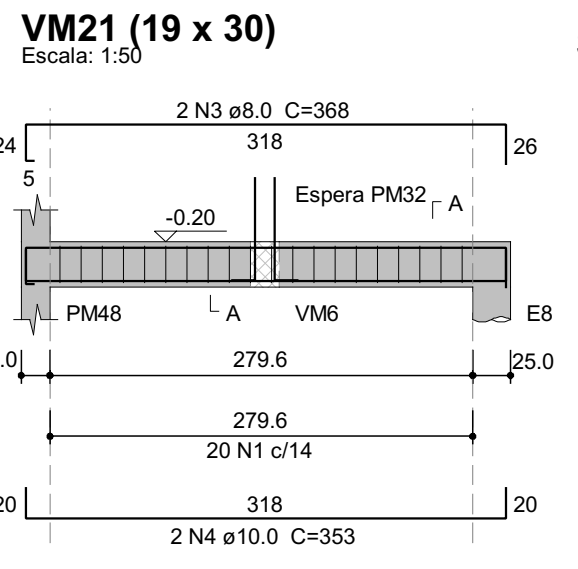
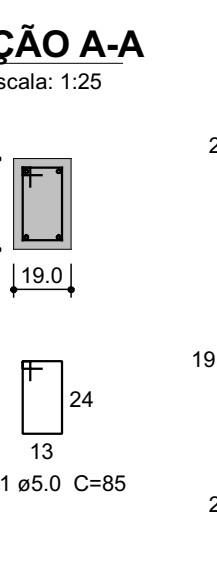
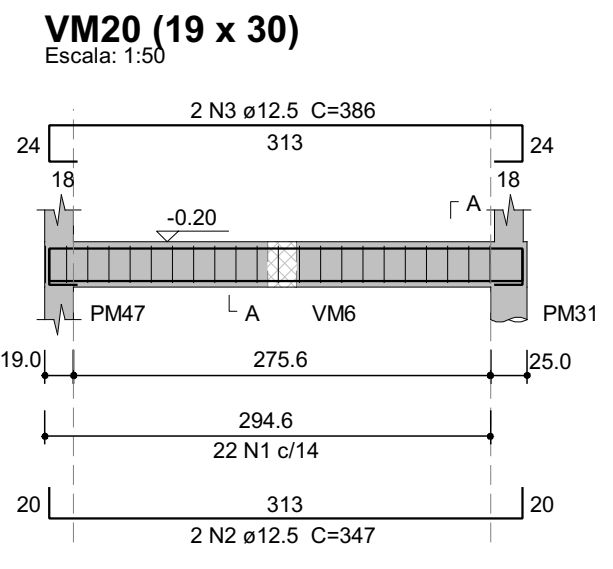
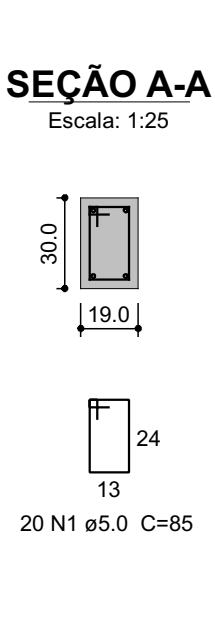
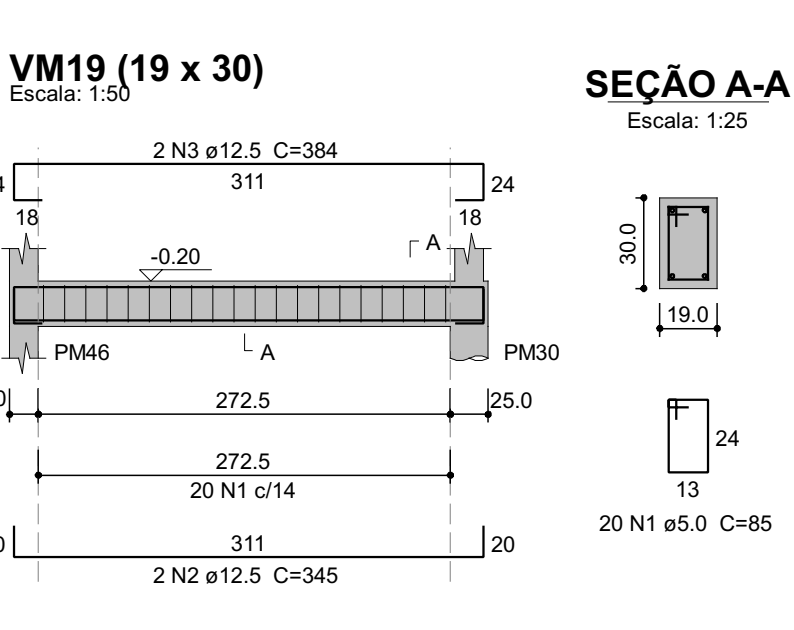
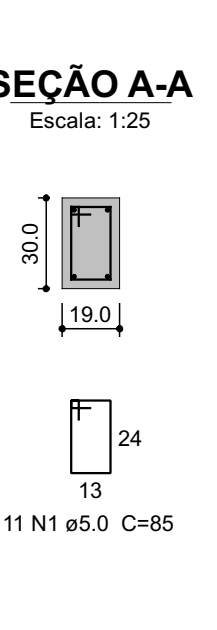
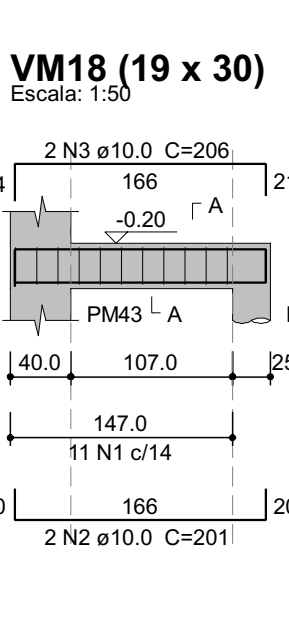
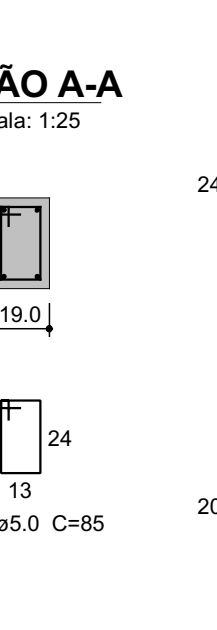
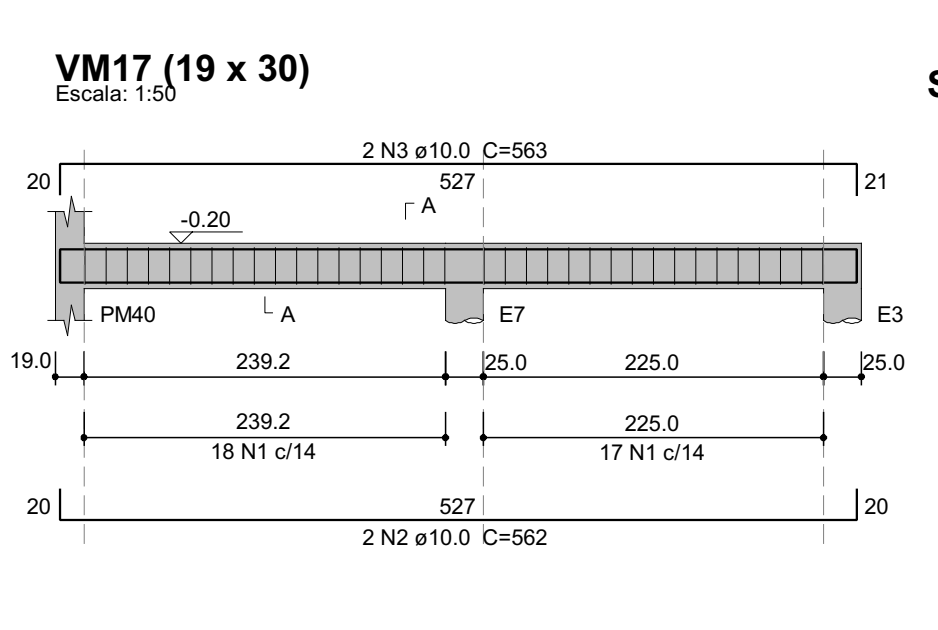
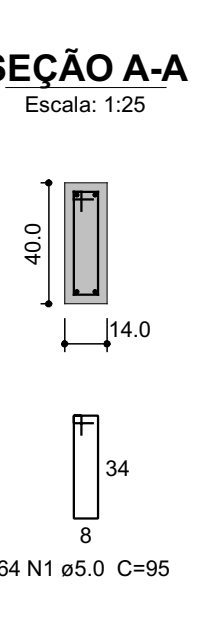
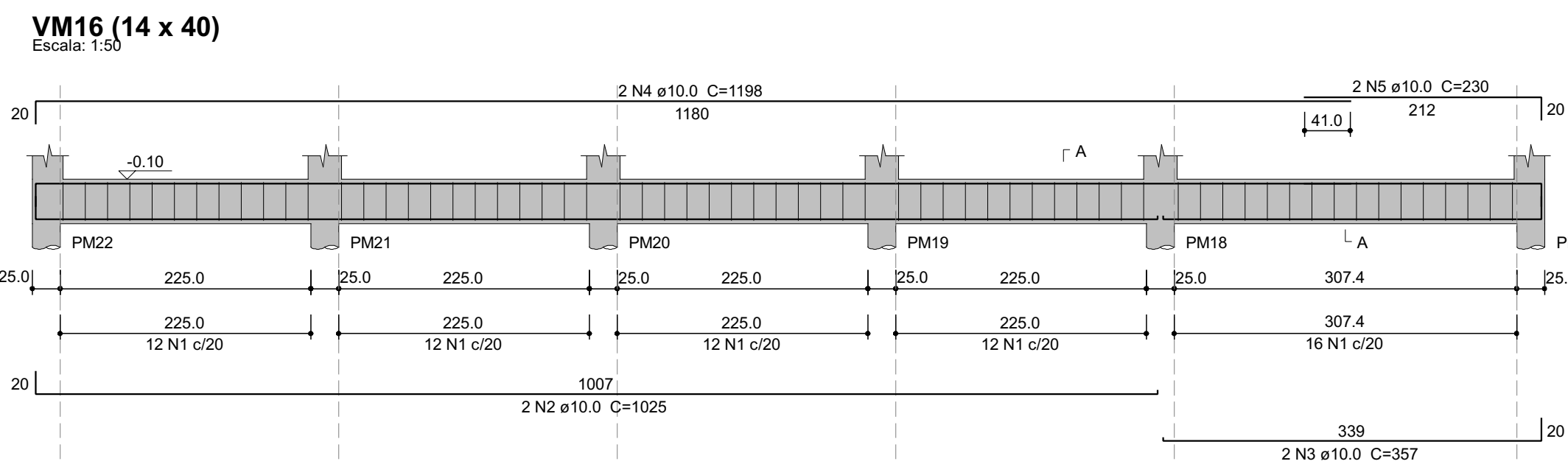
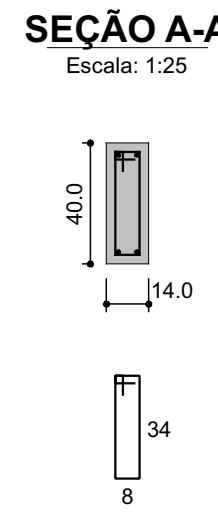
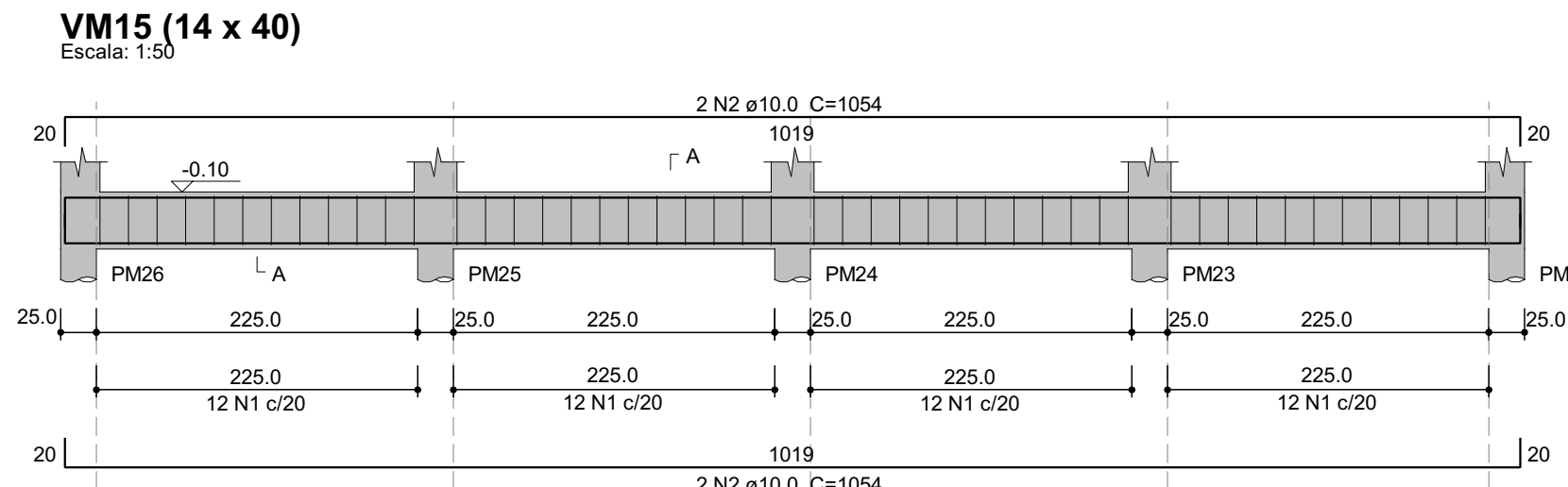
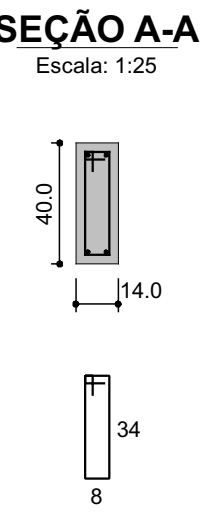
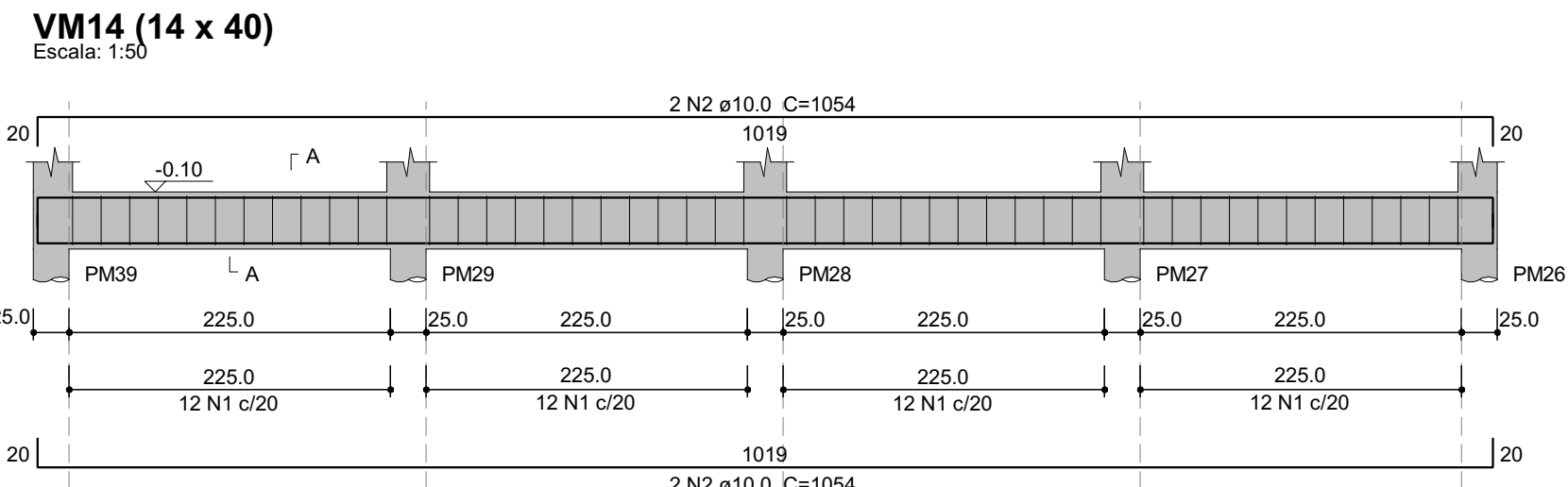
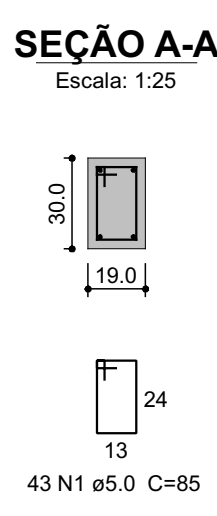
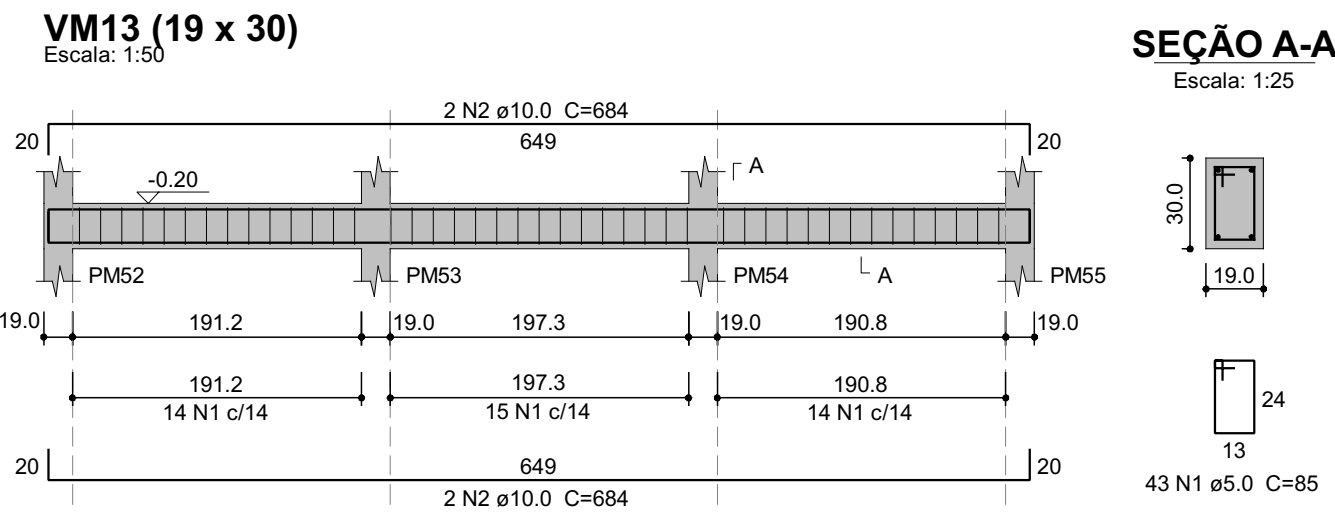


Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VM13	CA60	1	5.0	43	85	3655
	CA50	2	10.0	4	684	2736
VM14	CA60	1	5.0	48	95	4560
	CA50	2	10.0	4	1054	4216
VM15	CA60	1	5.0	48	95	4560
	CA50	2	10.0	4	1054	4216
VM16	CA60	1	5.0	64	95	6080
	CA50	2	10.0	2	1025	2050
VM17	CA50	3	10.0	2	357	714
	CA50	4	10.0	2	1198	2396
VM18	CA60	1	5.0	35	85	2975
	CA50	2	10.0	2	562	1124
VM19	CA50	3	10.0	2	563	1126
	CA60	1	5.0	11	85	935
VM20	CA50	2	10.0	2	201	402
	CA50	3	10.0	2	206	412
VM21	CA60	1	5.0	20	85	1700
	CA50	2	12.5	2	345	690
VM22	CA60	1	5.0	22	85	1870
	CA50	2	12.5	2	384	768
VM23	CA60	1	5.0	22	85	1870
	CA50	2	12.5	2	347	694
VM24	CA60	1	5.0	22	85	1870
	CA50	3	12.5	2	386	772

Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VM21	CA60	1	5.0	20	85	1700
	CA60	2	5.0	3	63	189
VM22	CA50	3	8.0	2	368	736
	CA50	4	10.0	2	353	706
VM23	CA50	5	10.0	4	81	324
	CA60	1	5.0	21	85	1785
VM24	CA60	2	5.0	3	63	189
	CA50	3	8.0	2	378	756
VM25	CA50	4	10.0	2	362	724
	CA50	5	10.0	4	81	324
VM26	CA60	1	5.0	11	85	935
	CA50	2	12.5	2	216	432
VM27	CA50	3	12.5	2	263	526
	CA60	1	5.0	22	85	1870
VM28	CA50	2	12.5	2	363	726
	CA60	1	5.0	10	85	850
VM29	CA50	2	12.5	2	198	396
	CA50	3	12.5	2	237	474

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	8.0	22.4	3	9.7
	10.0	229.7	22	155.8
	12.5	62.1	6	65.7
CA60	5.0	358.3	-	60.7
PESO TOTAL (kg)				
CA50	231.2			
CA60	60.7			

Volume de concreto (C-25) = 3.67 m³
Área de forma = 56.15 m²

#	data:	observação:
0	24/08/2026	emissão inicial

DESTRO
ENGENHARIA

PRANCHA
6/14

ASSUNTO

PROJETO ESTRUTURAL
Vigas do Muro Térreo (2/2)

ENDEREÇO

Rua Machado de Assis, sem nº, Bairro Progresso, Nova Hartz/RS

ÁREA

366,83 m²

ESCALA

Indicada

PROPRIETÁRIOS

MUNICÍPIO DE NOVA HARTZ
CNPJ sob nº 91.995.365/0001-59

RESPONSÁVEL TÉCNICO

NÍCOLAS BEZ BATTI BERGMANN
Engenheiro Civil | CREA nº 222.018