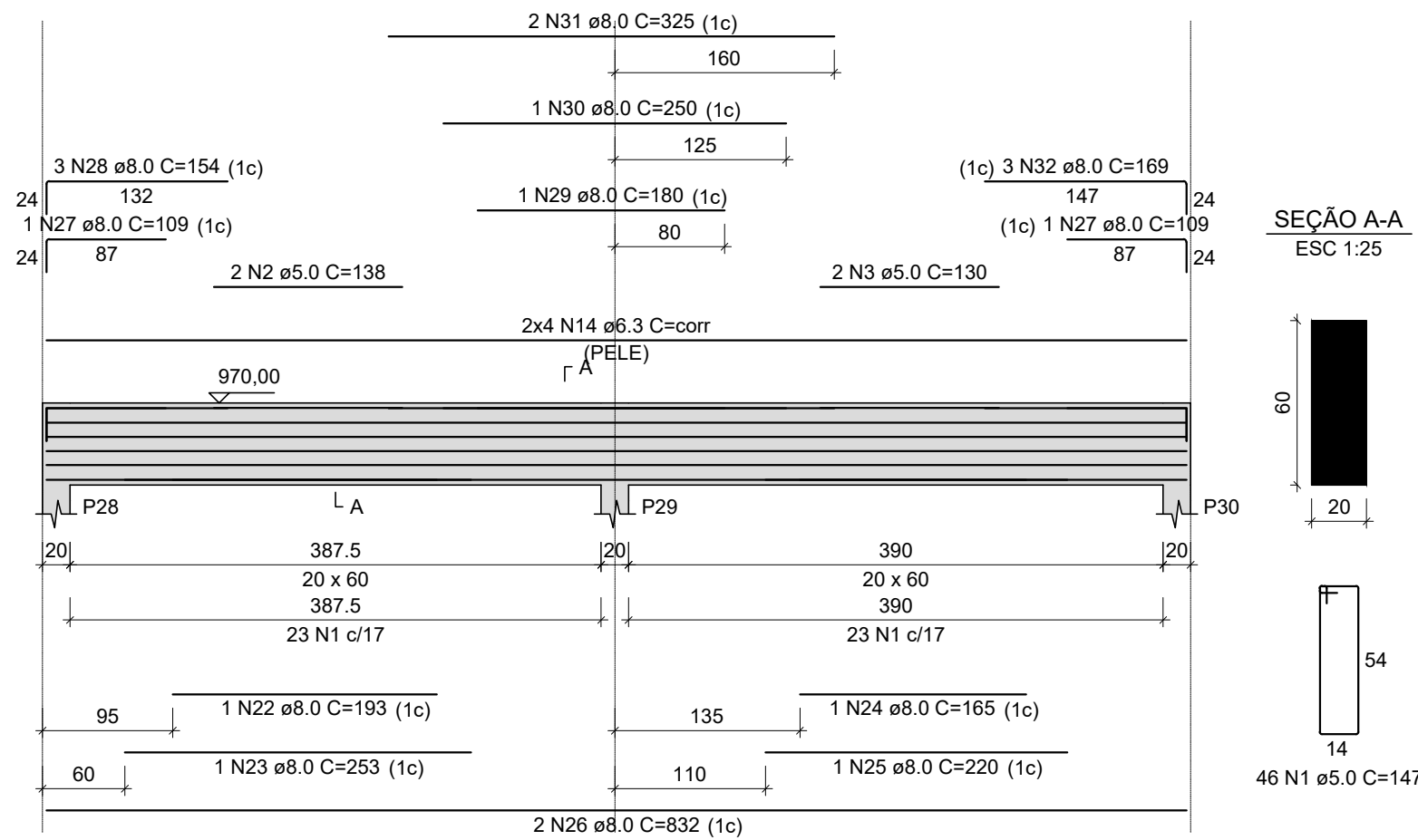


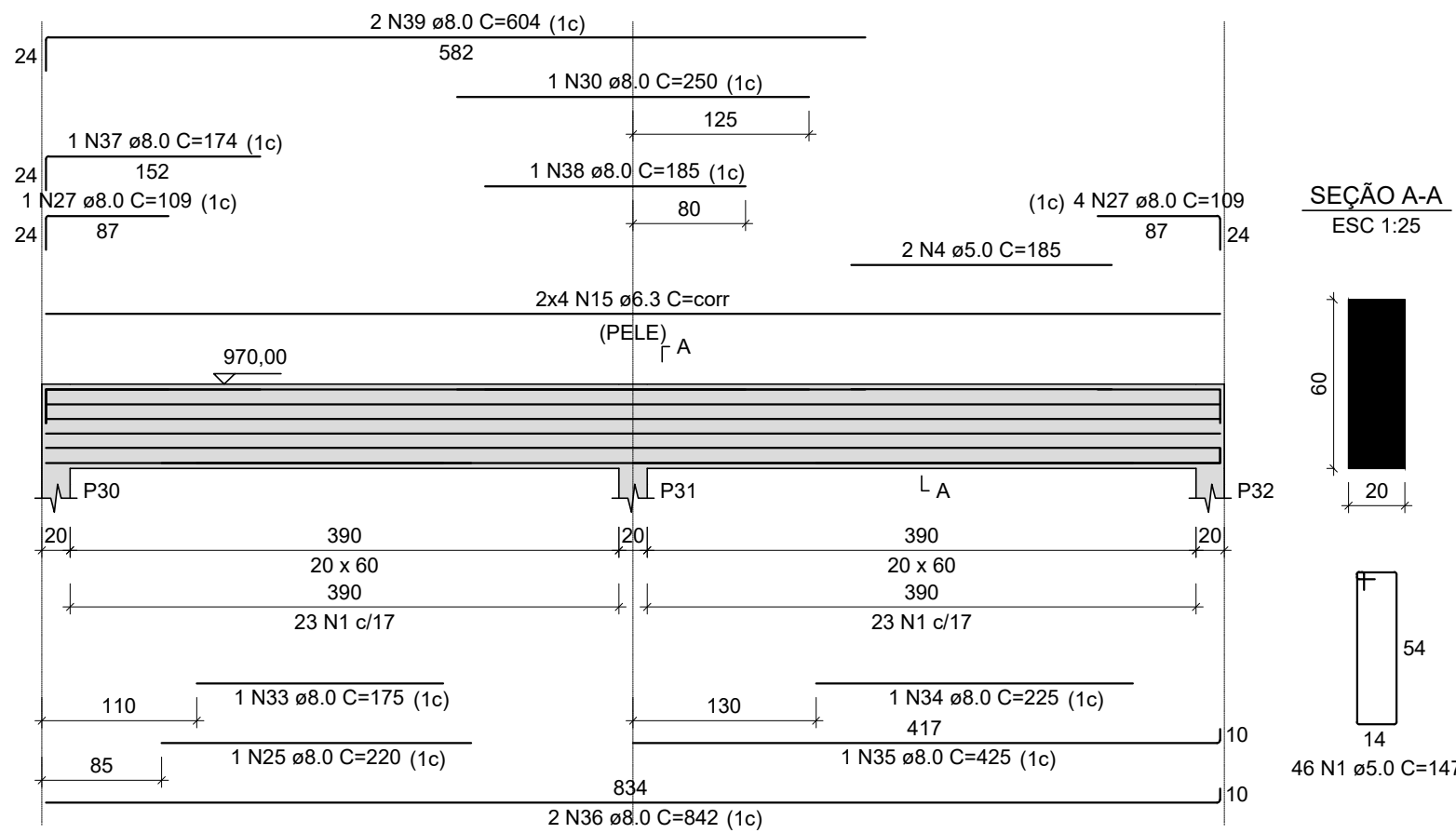
## V15

ESC 1:50



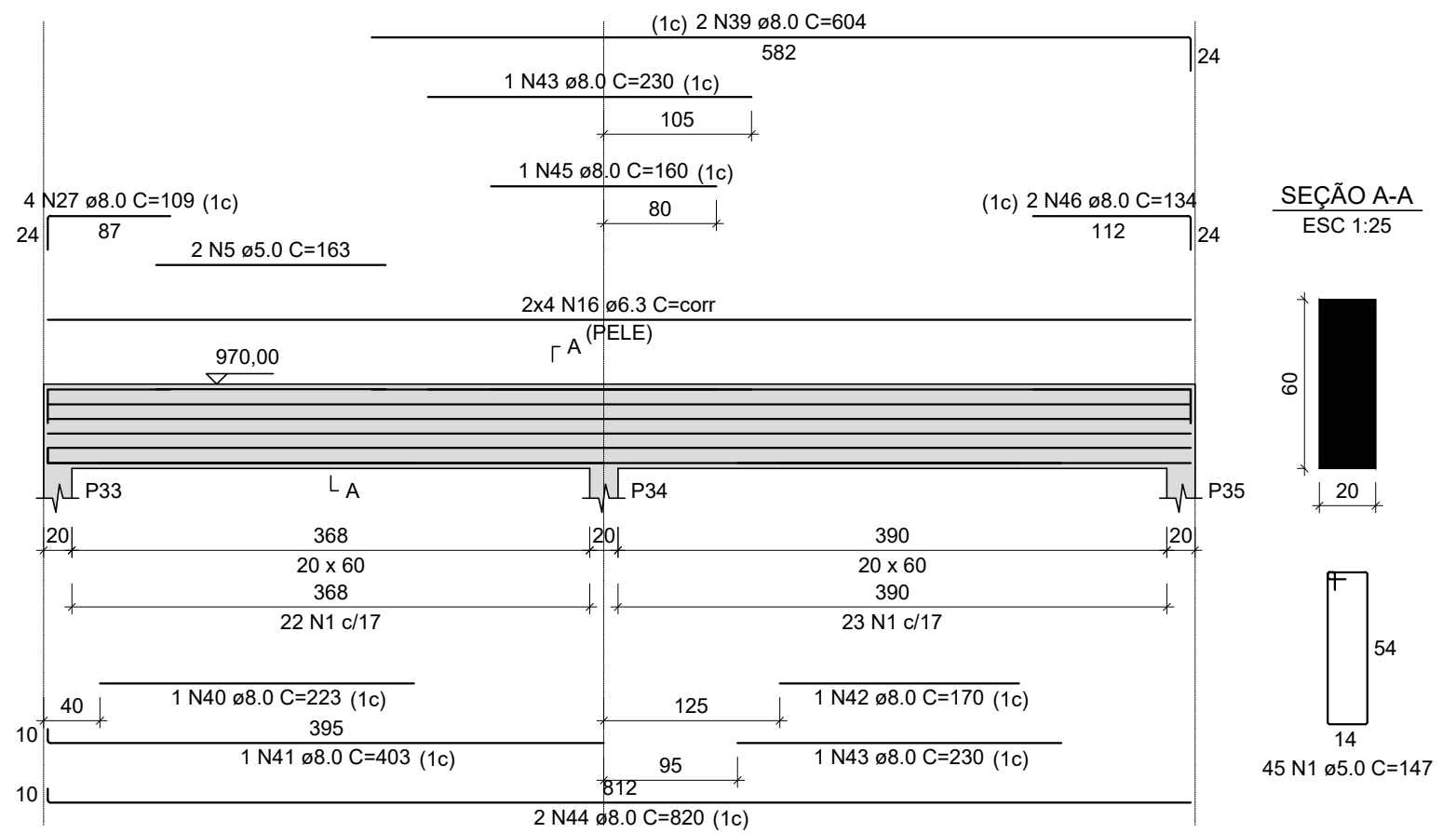
## V16

ESC 1:50



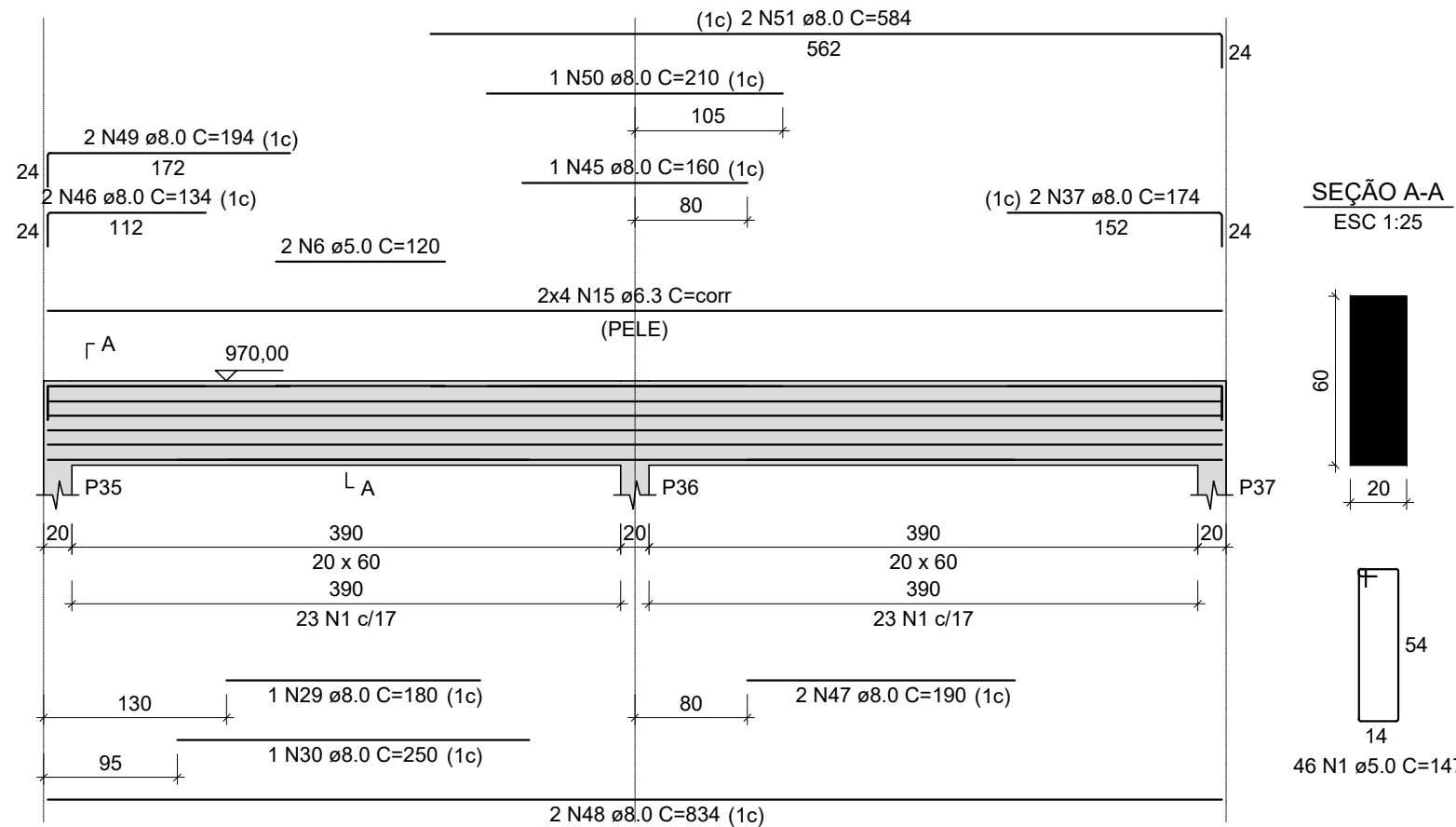
## V17

ESC 1:50



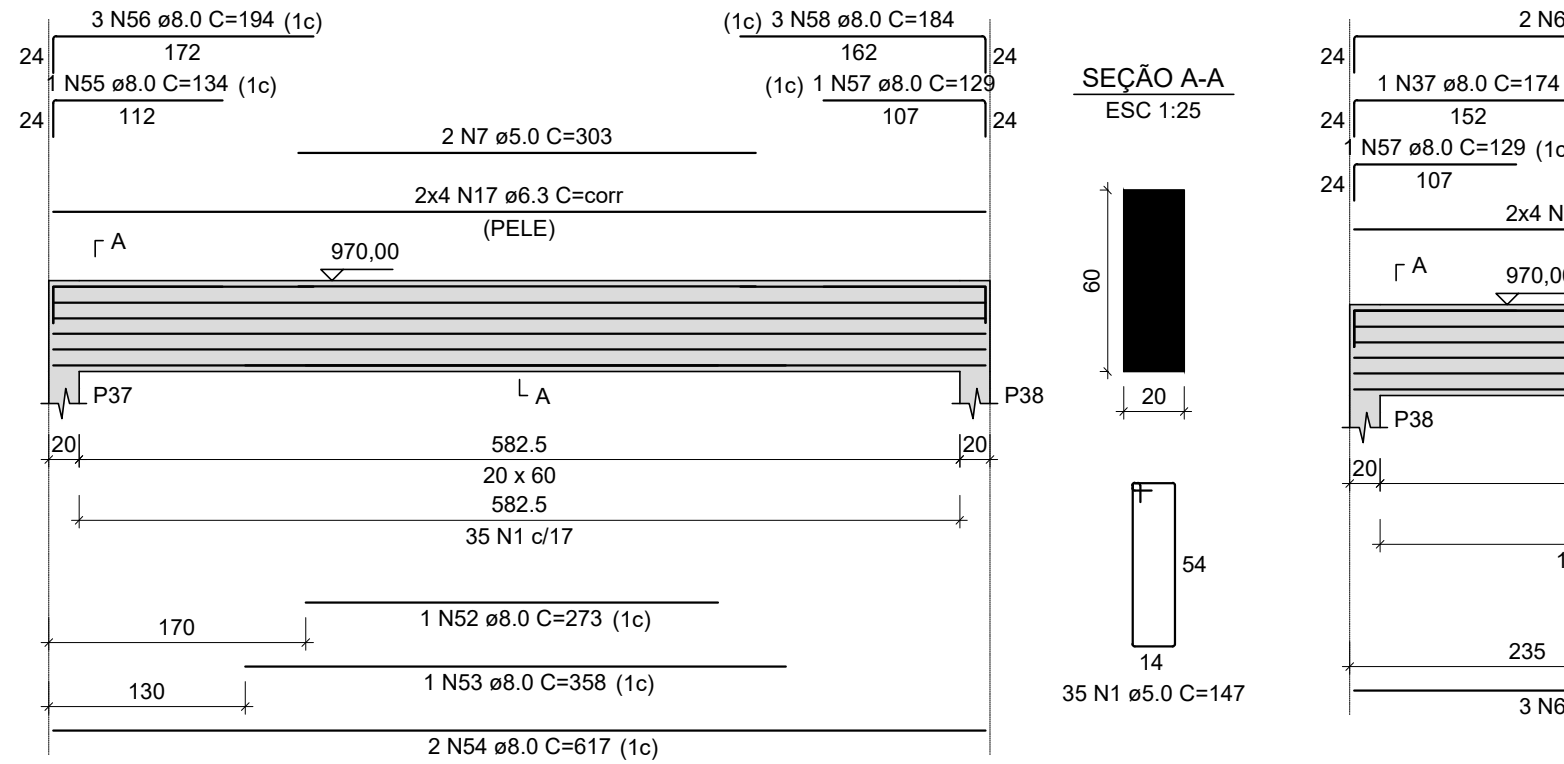
## V18

ESC 1:50



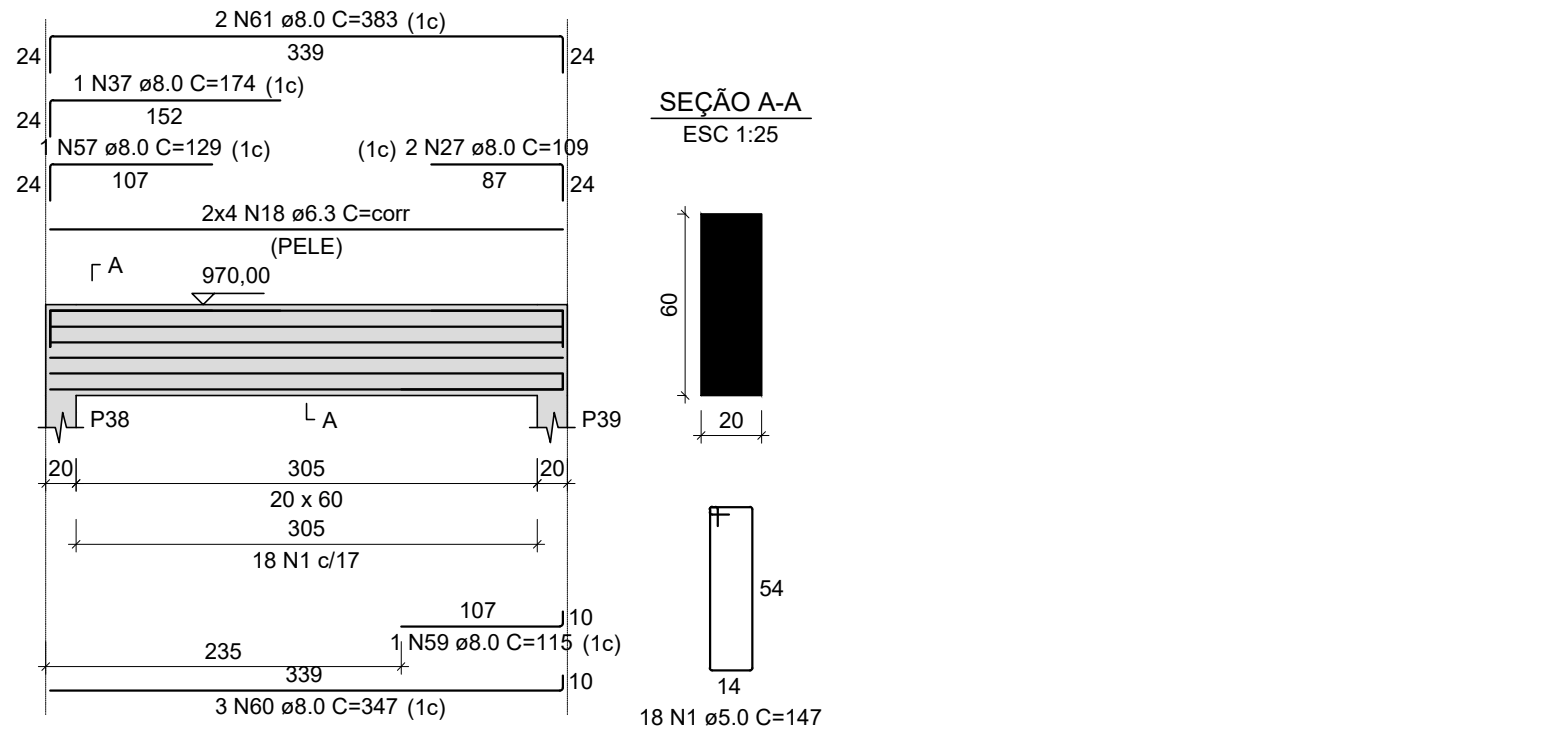
## V19

ESC 1:50



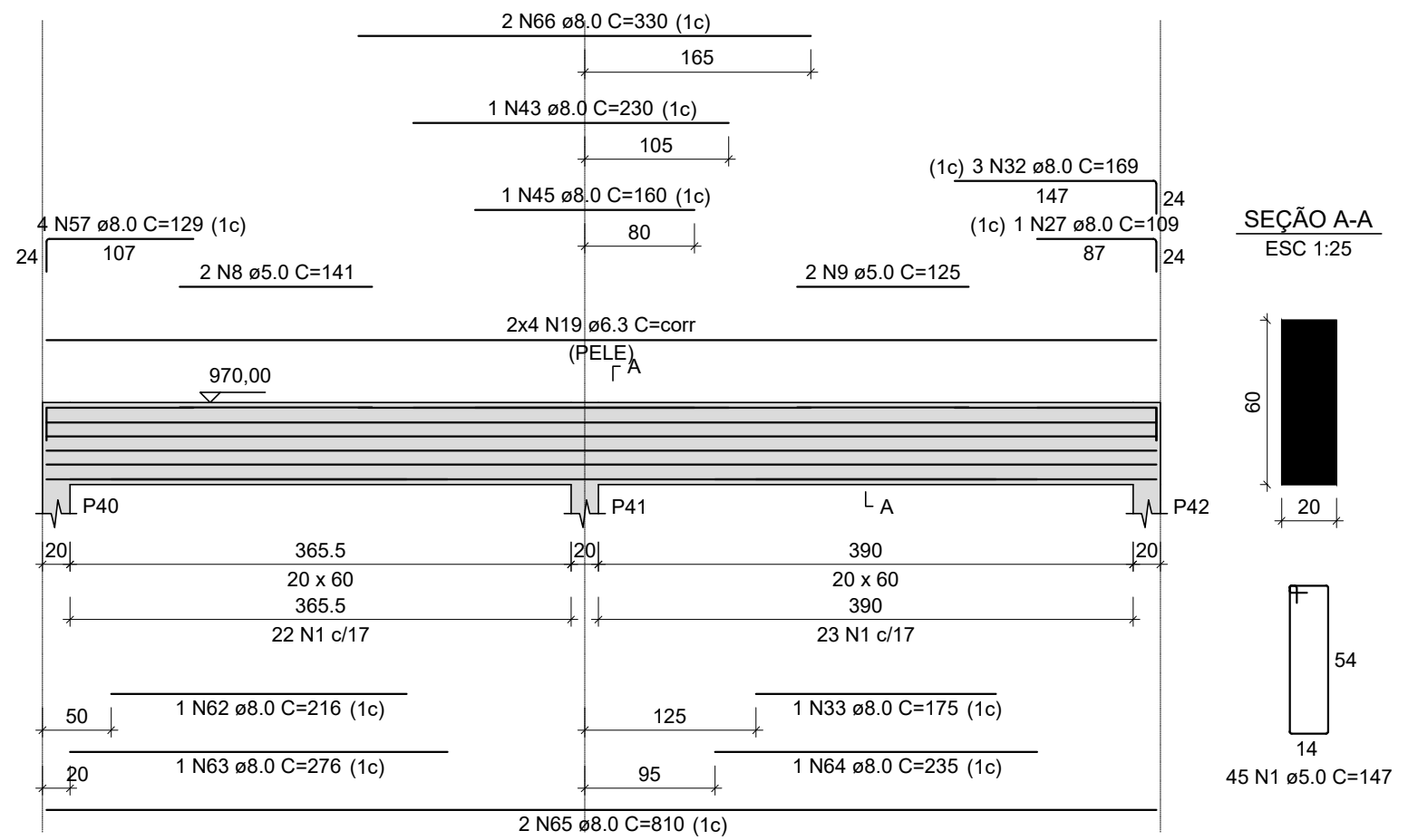
## V20

ESC 1:50



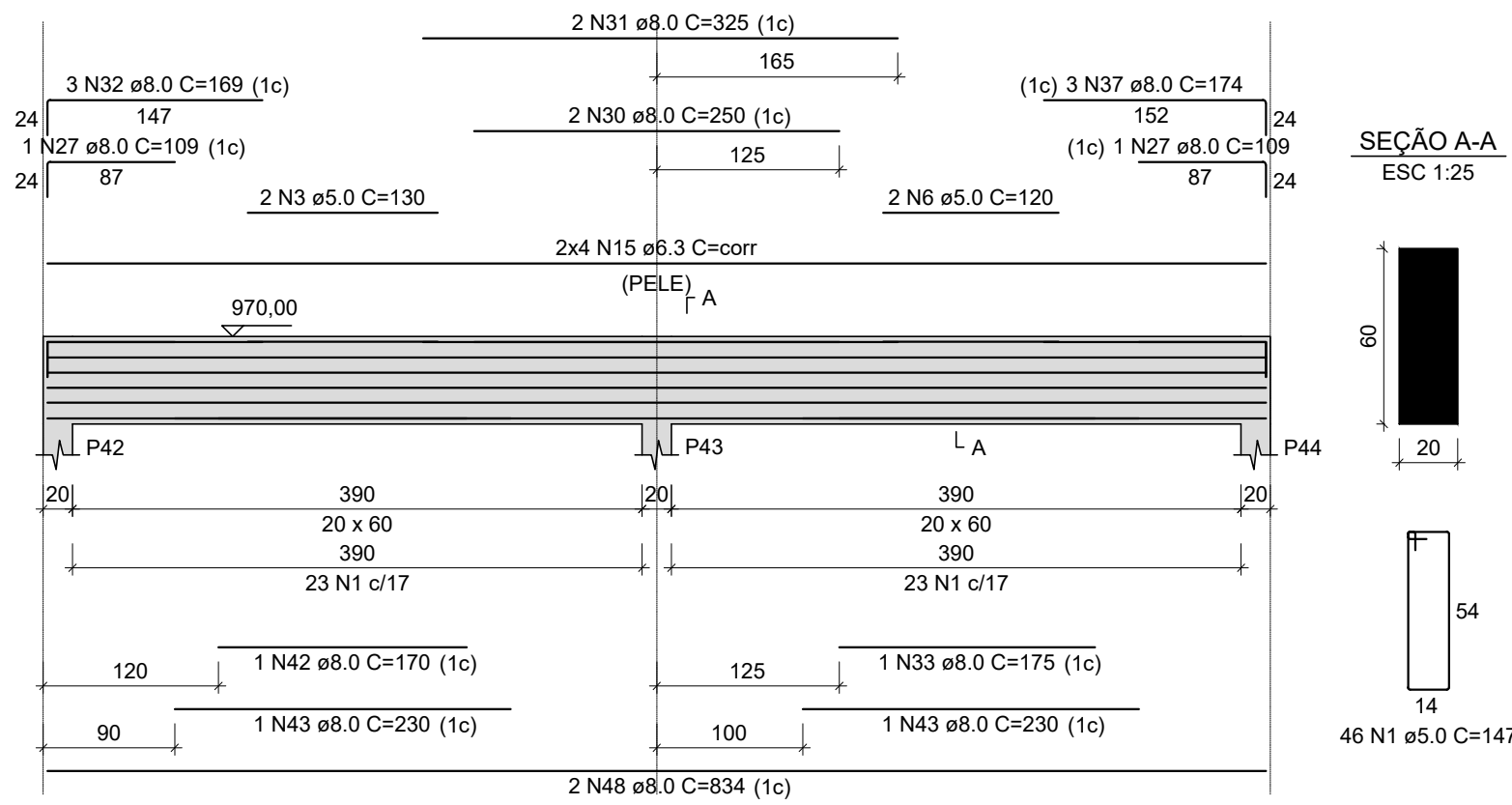
## V21

ESC 1:50



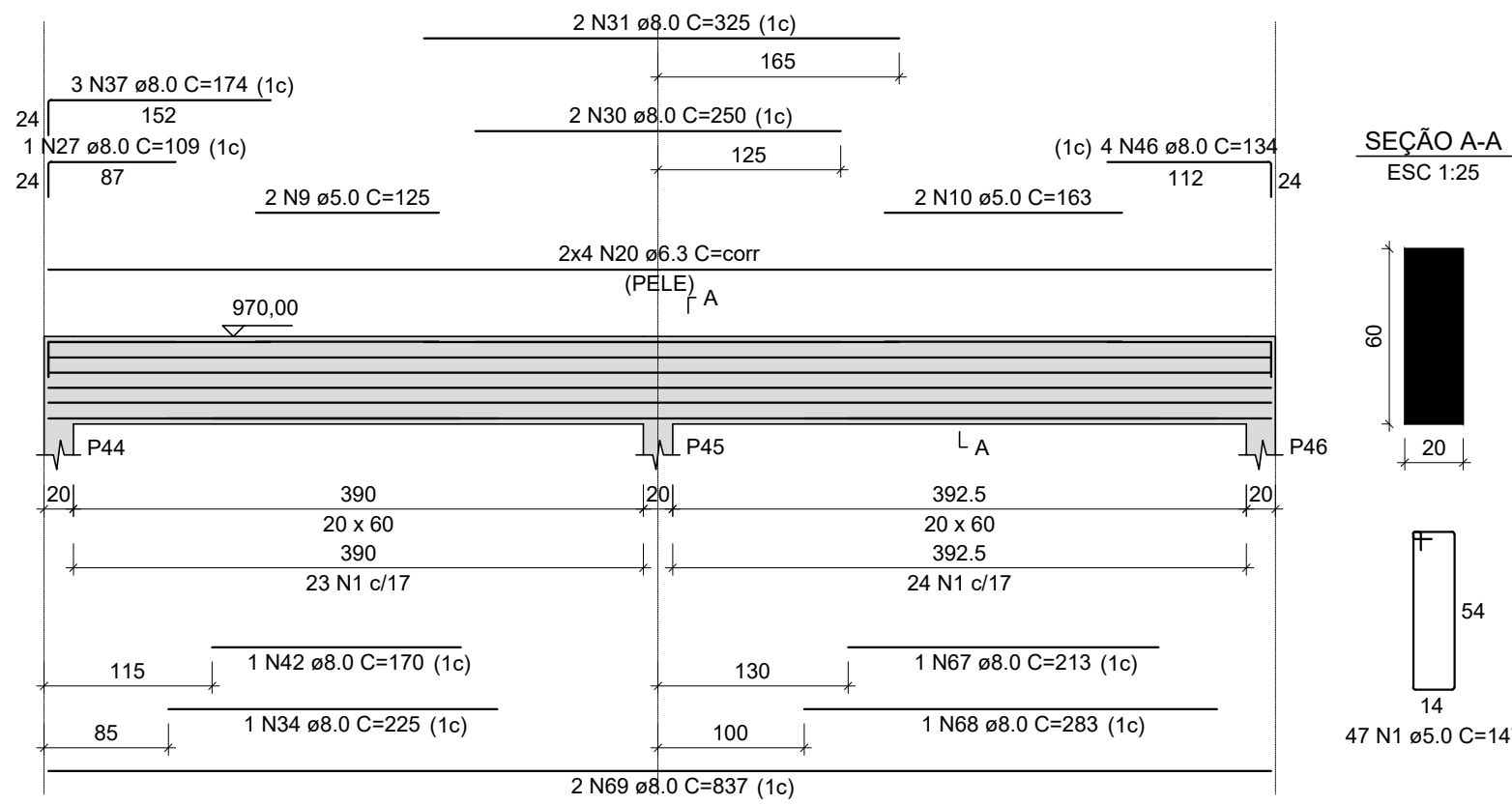
## V22

ESC 1:50



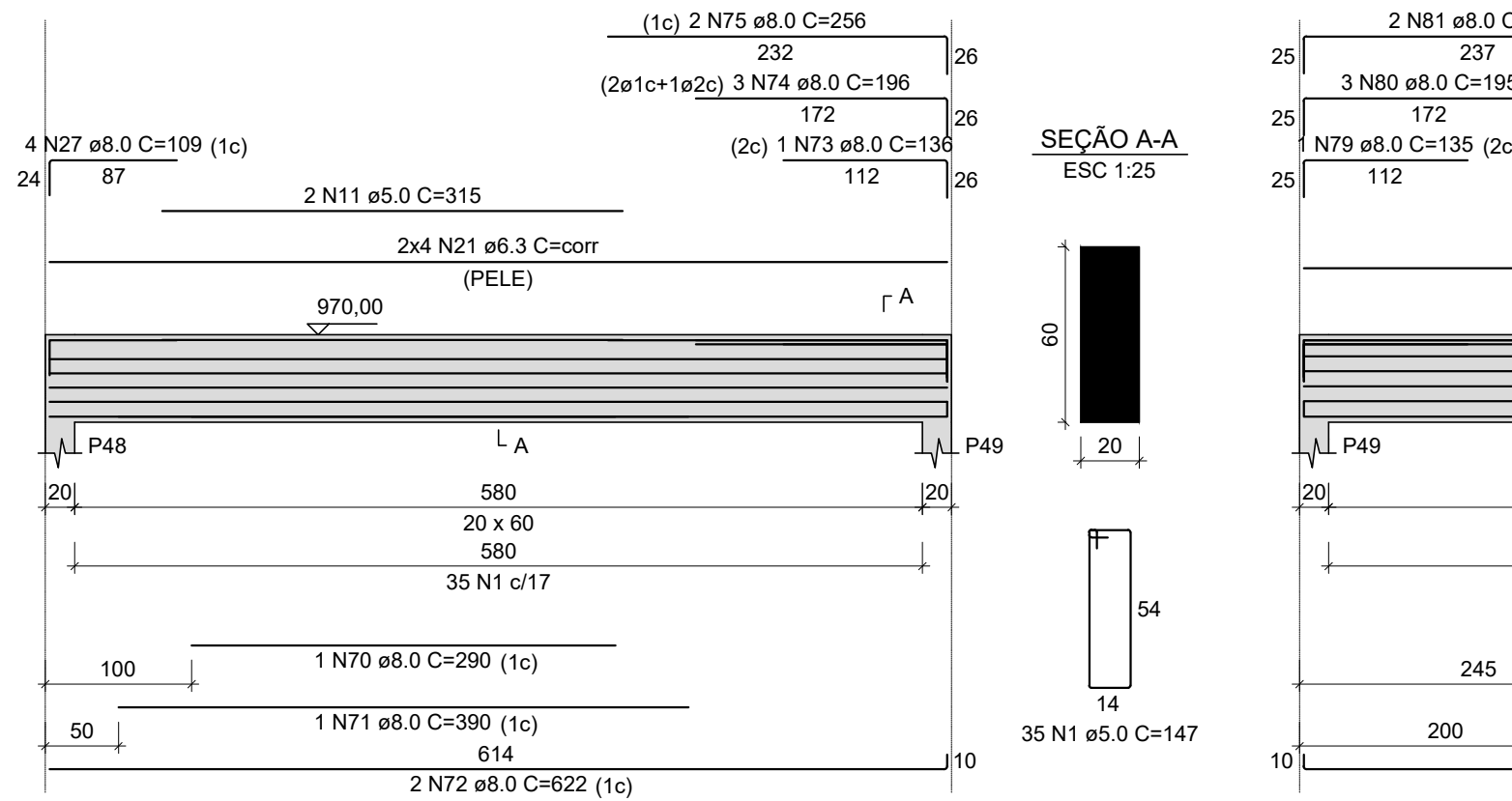
## V23

ESC 1:50



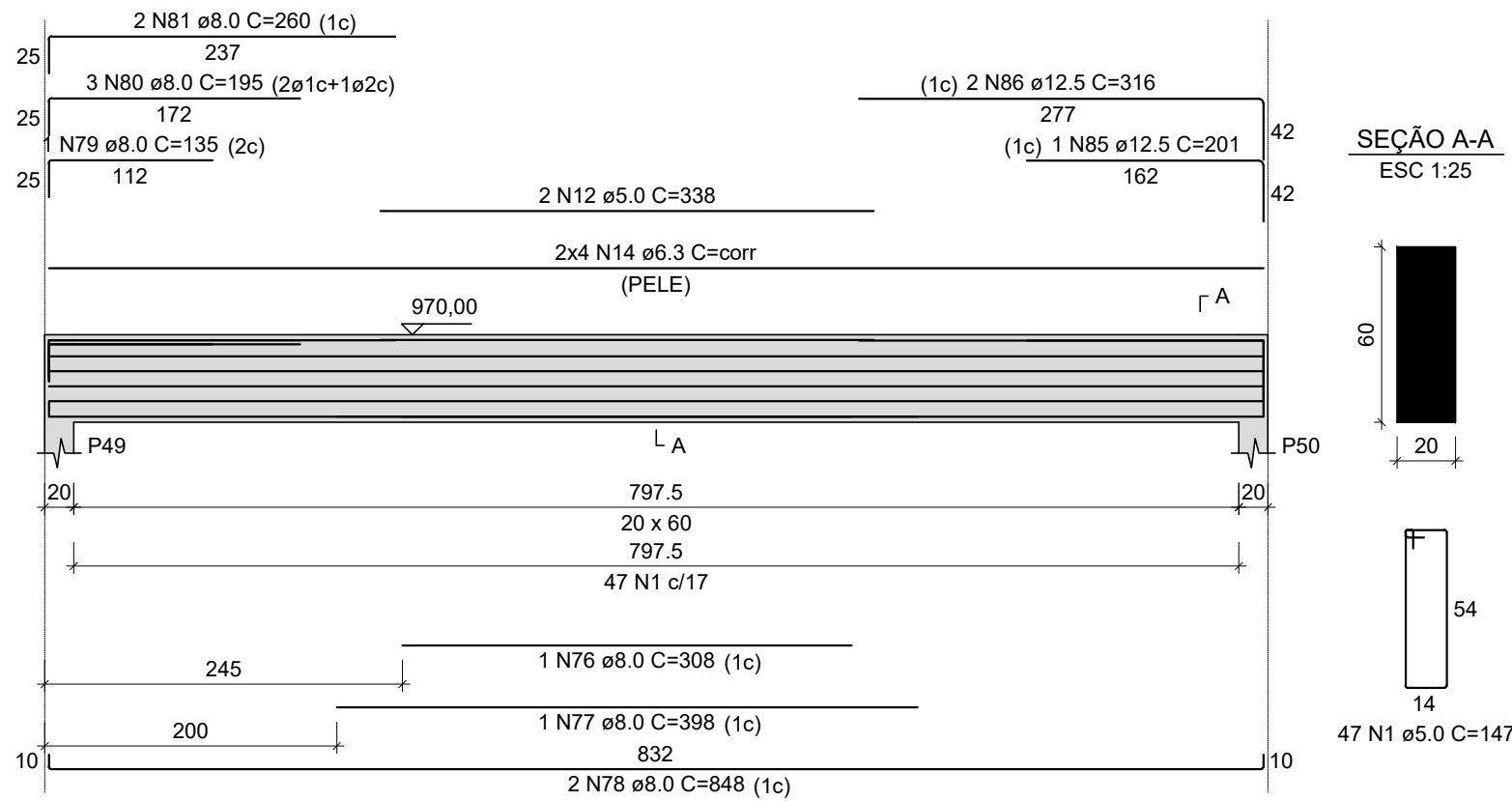
## V24

ESC 1:50



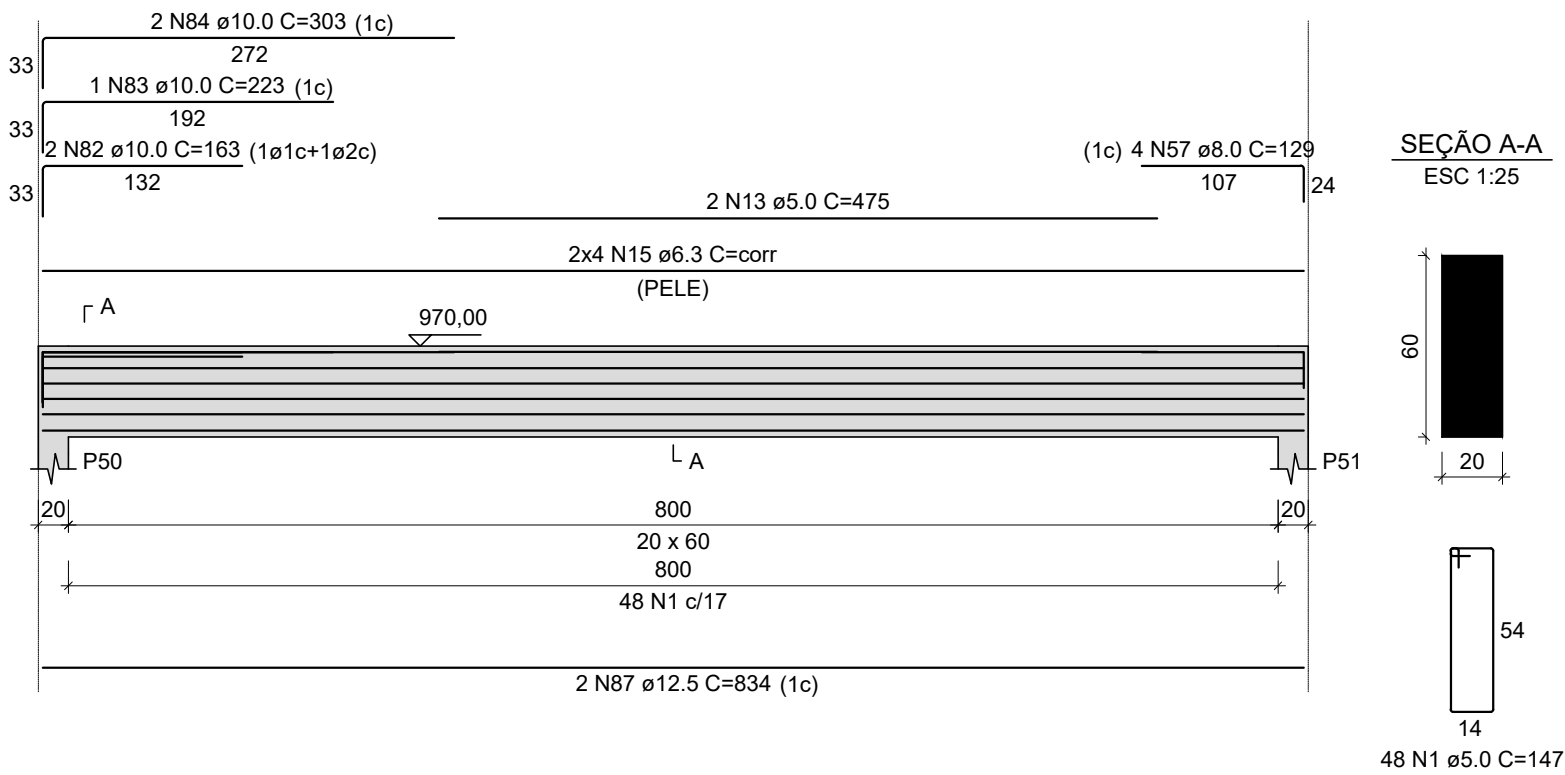
## V25

ESC 1:50



## V26

ESC 1:50



## RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V15	1	5.0	504	147	74088
V16	2	5.0	2	138	276
V17	3	5.0	2	130	260
V18	4	5.0	2	125	250
V19	5	5.0	2	163	326
V20	6	5.0	4	120	480
V21	7	5.0	2	303	606
V22	8	5.0	2	141	282
V23	9	5.0	4	125	500
V24	10	5.0	2	163	326
V25	11	5.0	2	315	630
V26	12	5.0	2	338	676
V27	13	5.0	2	475	950
V28	14	6.3	16	corr	13312
V29	15	6.3	32	corr	26688
V30	16	6.3	8	corr	6496
V31	17	6.3	8	corr	4936
V32	18	6.3	8	corr	2712
V33	19	6.3	8	corr	6480
V34	20	6.3	8	corr	6696
V35	21	6.3	8	corr	4912
V36	22	8.0	1	193	193
V37	23	8.0	1	253	253
V38	24	8.0	1	165	165
V39	25	8.0	2	220	440
V40	26	8.0	2	832	1664
V41	27	8.0	21	109	2289
V42	28	8.0	2	154	308
V43	29	8.0	2	180	360
V44	30	8.0	7	250	1750
V45	31	8.0	6	325	1950
V46	32	8.0	9	169	1521
V47	33	8.0	3	175	525
V48	34	8.0	2	225	450
V49	35	8.0	1	425	425
V50	36	8.0	2	842	1684
V51	37	8.0	10	174	1740
V52	38	8.0	1	185	185
V53	39	8.0	4	604	2416
V54	40	8.0	1	223	223
V55	41	8.0	1	403	403
V56	42	8.0	1	170	170
V57	43	8.0	5	230	1150
V58	44	8.0	2	820	1640
V59	45	8.0	3	160	480
V60	46	8.0	8	134	1072
V61	47	8.0	2	190	380
V62	48	8.0	2	834	1668
V63	49	8.0	2	194	388
V64	50	8.0	1	210	210
V65	51	8.0	2	584	1168
V66	52	8.0	1	273	273
V67	53	8.0	1	358	358
V68	54	8.0	2	617	1234
V69	55	8.0	1	134	134
V70	56	8.0	3	194	582
V71	57	8.0	10	129	1290
V72	58	8.0	3	184	552
V73	59	8.0	1	115	115
V74	60	8.0	3	347	1041
V75	61	8.0	2	383	766
V76	62	8.0	1	216	216
V77	63	8.0	1	276	276
V78	64	8.0	1	235	235
V79	65	8.0	2	810	1620
V80	66	8.0	2	330	660
V81	67	8.0	1	213	213
V82	68	8.0	1	283	283
V83	69	8.0	2	837	1674
V84	70	8.0	1	290	290
V85	71	8.0	1	390	390
V86	72	8.0	2	622	1244
V87	73	8.0	1	136	136
V88	74	8.0	3	196	588
V89	75	8.0	2	256	512
V90	76	8.0	1	308	308
V91	77	8.0	1	398	398
V92	78	8.0	2	848	1696
V93	79	8.0	1	135	135
V94	80	8.0	3	195	585
V95	81	8.0	2	260	520
V96	82	10.0	2	163	326
V97	83	10.0	1	223	223
V98	84	10.0	2	303	606
V99	85	12.5	1	201	201
V100	86	12.5	2	316	632
V101	87	12.5	2	834	1668

## RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	722.3	194.4
CA50	8.0	477.6	207.3
CA50	10.0	11.6	7.9
CA50	12.5	25	26.5
CA60	5.0	800.3	135.7
PESO TOTAL (kg)			
CA50	436		
CA60	135.7		

Volume de concreto fck 3,0kN/cm² (C-30) = 10.17 m³  
Área de forma = 91.57 m²

05	21/11/22	REVISÃO CONFORME NOTA TÉCNICA	ATACIZIO
REVISÃO	DATA	DESCRIÇÃO	RESP.
EMPRESA	MARKA ARQUITETURA E ENGENHARIA LTDA RUA PROFESSOR ABEYLARD, 279, SALA 9 CENTRO, SETE LAGOAS/MG opoio@markaprojetos.com.br (31) 3177-4235 www.markaprojetos.com.br		ESPECIALIDADE ESTRUTURAL FASE DO PROJETO EXECUTIVO
EMPENHAMENTO	- OBRA		RESPONSÁVEL PROJETO JOSE ATACIZIO DA FE INGENHEIRO CIVIL CREA/MG 67.669/D
ESCOLA MUNICIPAL BELVEDERE RUA JOSÉ COELHO, RUA CANADÁ E RUA SÉRGIO JACOWLEVSKI B. SIDERÚRGICO - CONSELHEIRO LAFAIETE/MG		COORDENADOR PROJETO KARINE NARDY	
ASSUNTO	PROJETO DE ESTRUTURAS DE CONCRETO ARMAÇÃO DAS VIGAS - BLOCO 02		PROJETISTA JOSE ATACIZIO DA FE
ESCALA	INDICADA		Nº FOLHA
DATA	21/11/22		21
ARQUIVO	064-EST-BLOCO 02-BELVEDERE-06		