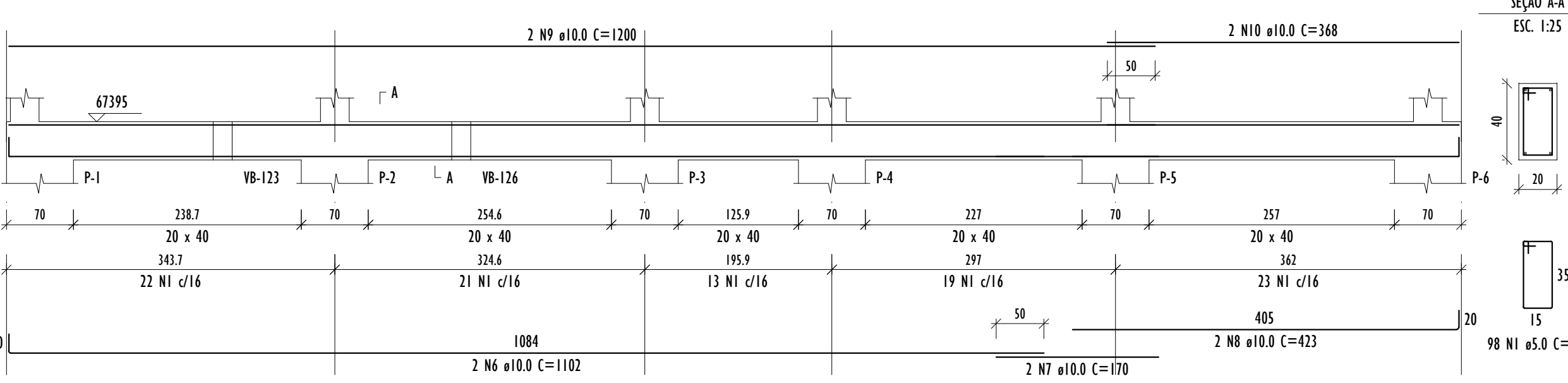
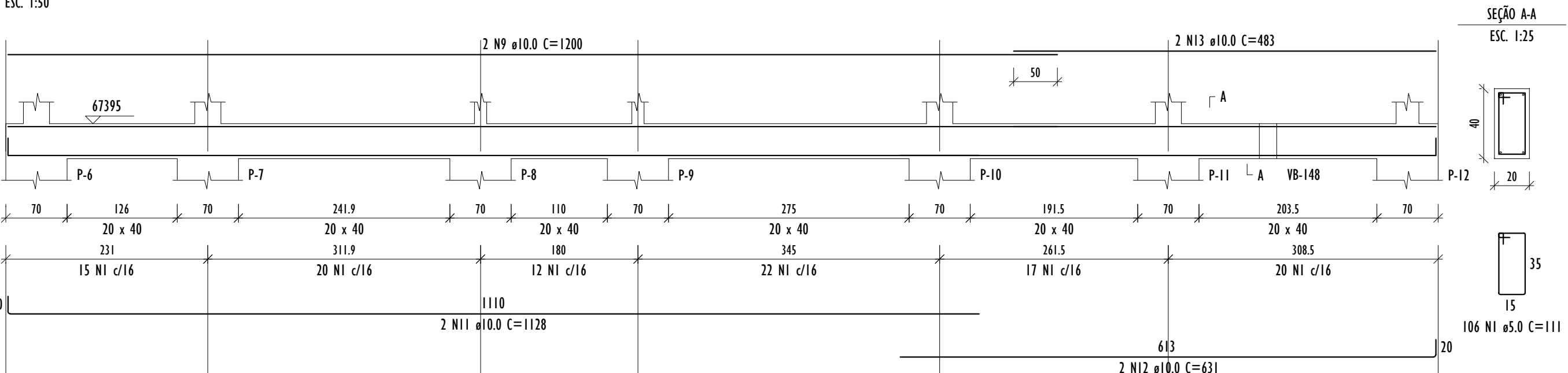


PROJETO ESTRUTURAL - UBS VALADARES

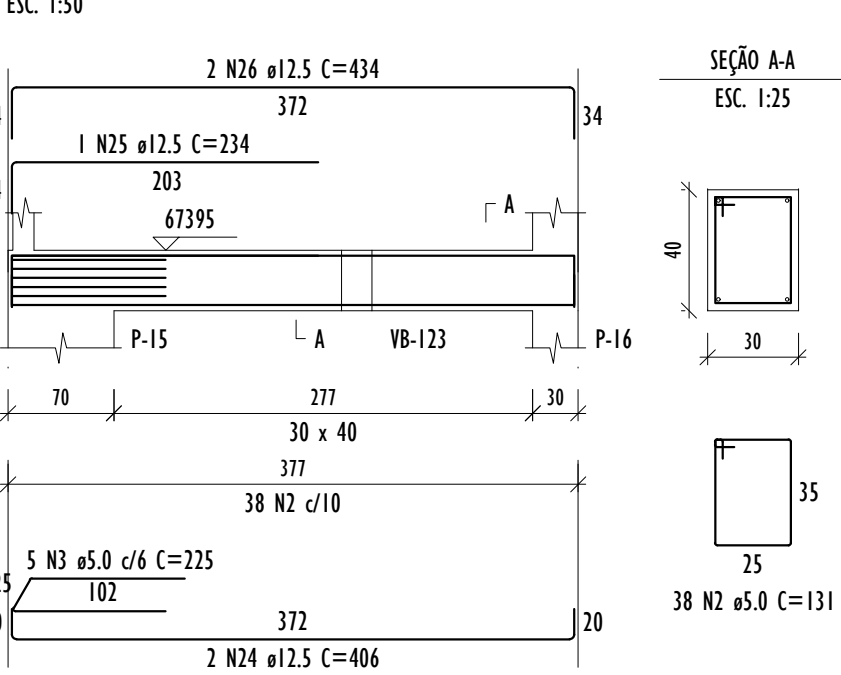
VB-101 (20 x 40)



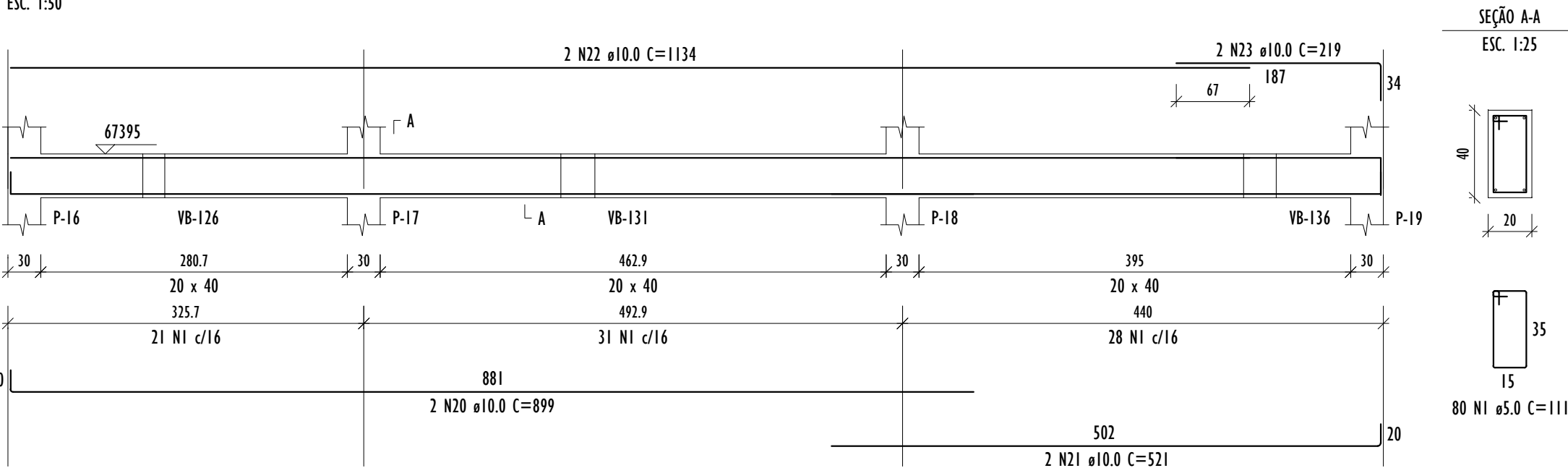
VB-102 (20 x 40)



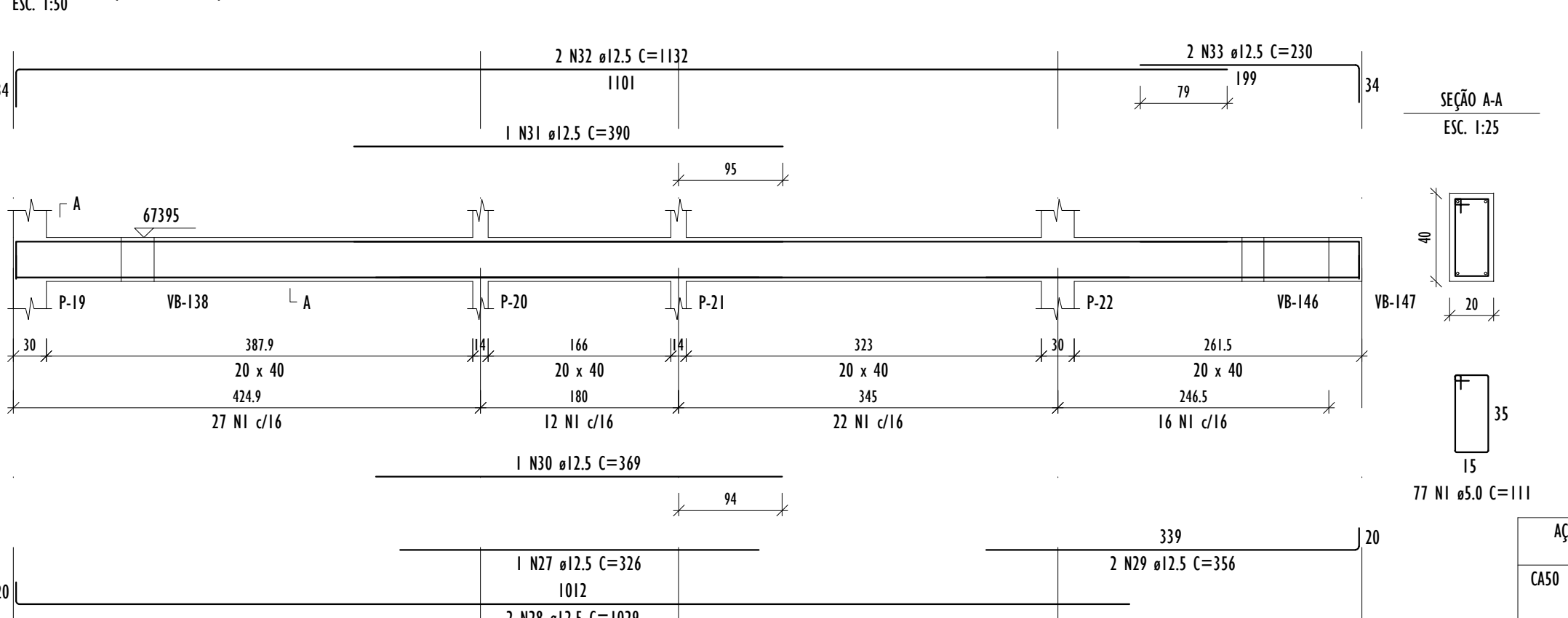
VB-106 (30 x 40)



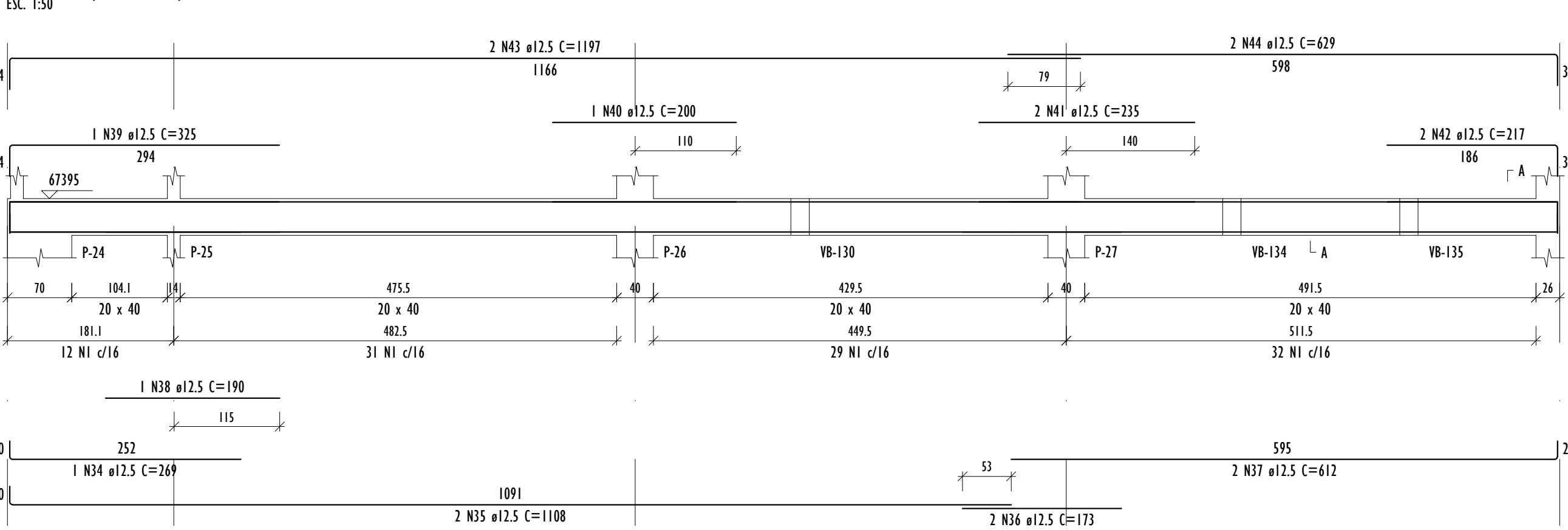
VB-107 (20 x 40)



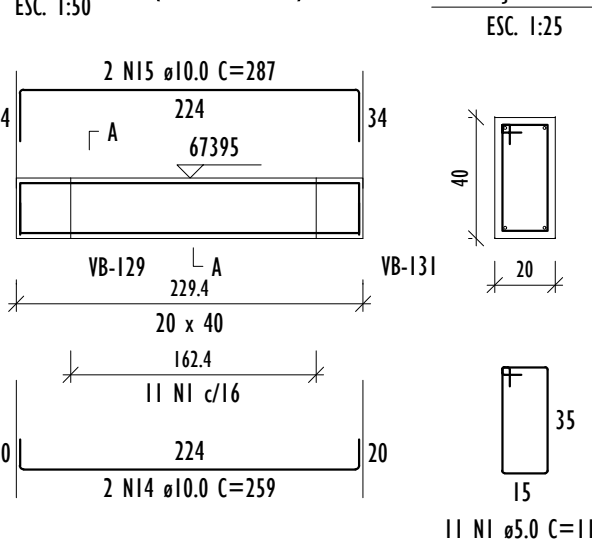
VB-108 (20 x 40)



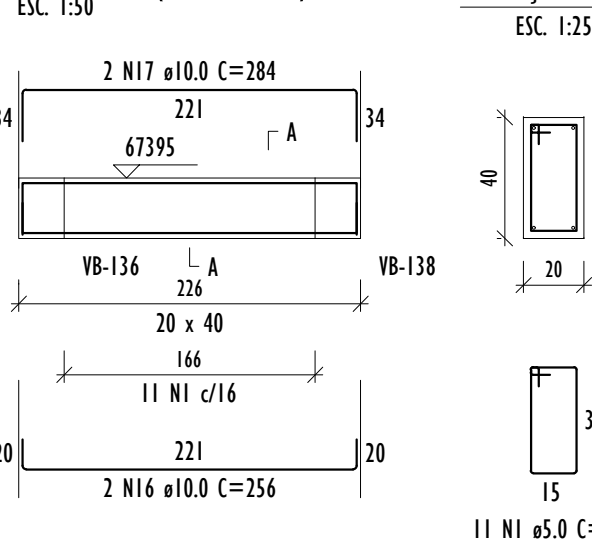
VB-109 (20 x 40)



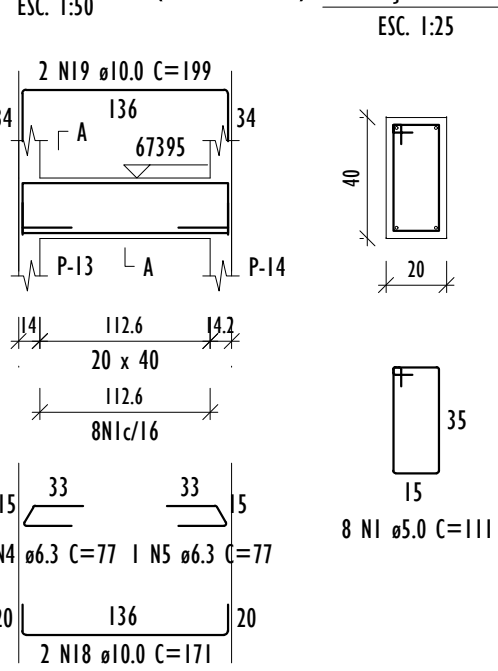
VB-103 (20 x 40)



VB-104 (20 x 40)



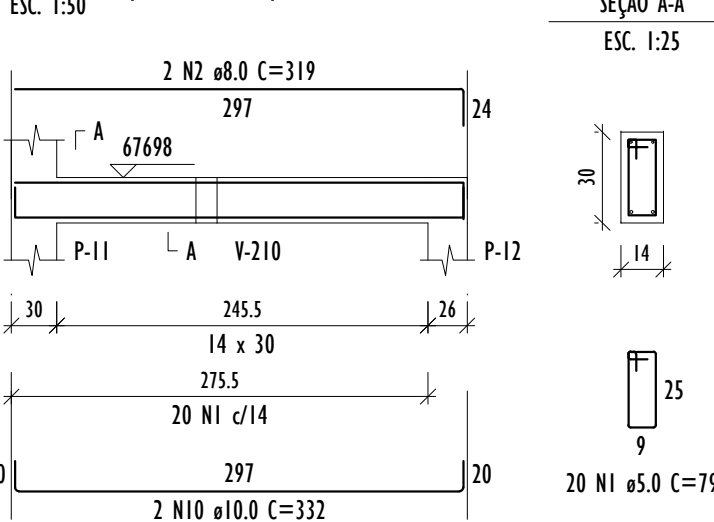
VB-105 (20 x 40)



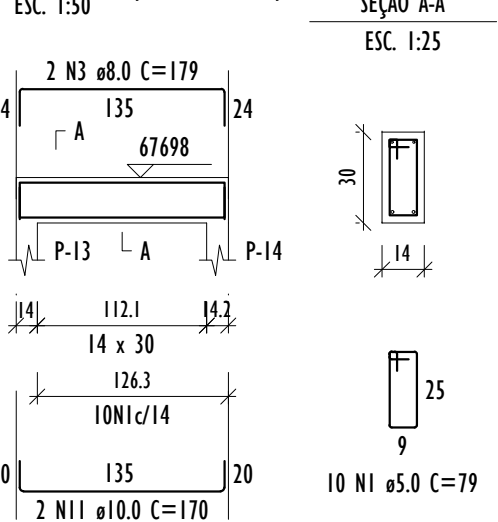
DETALHAMENTO DE VIGAS (NÍVEL 673.95)

ESCALA INDICADA

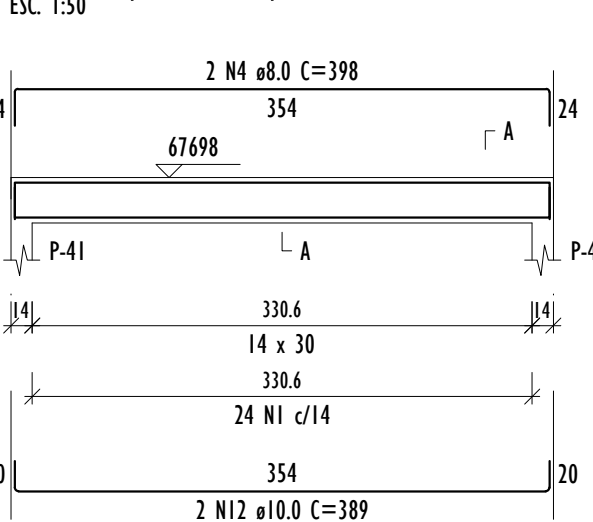
V-201 (14 x 30)



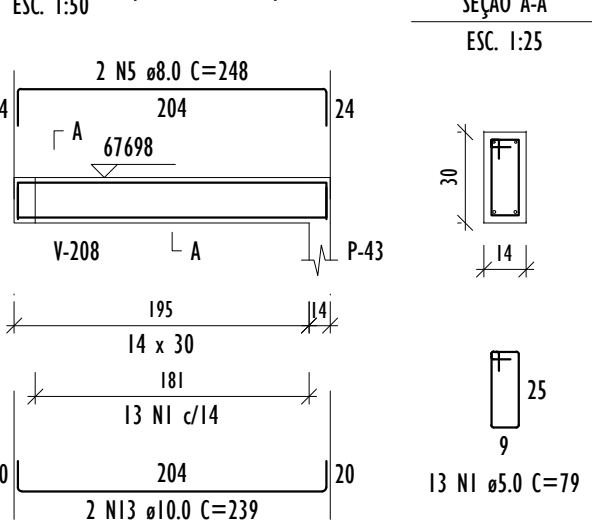
V-202 (14 x 30)



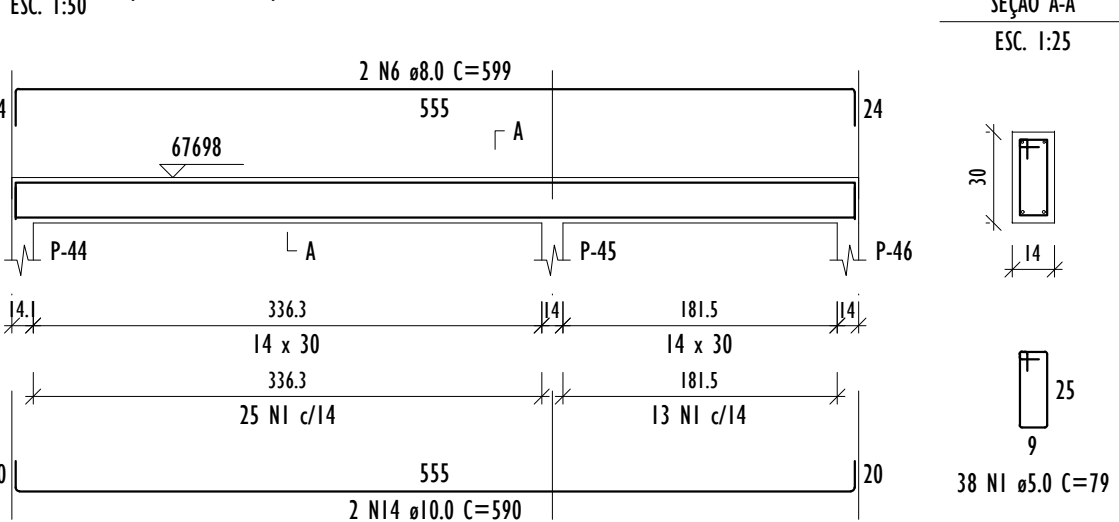
V-203 (14 x 30)



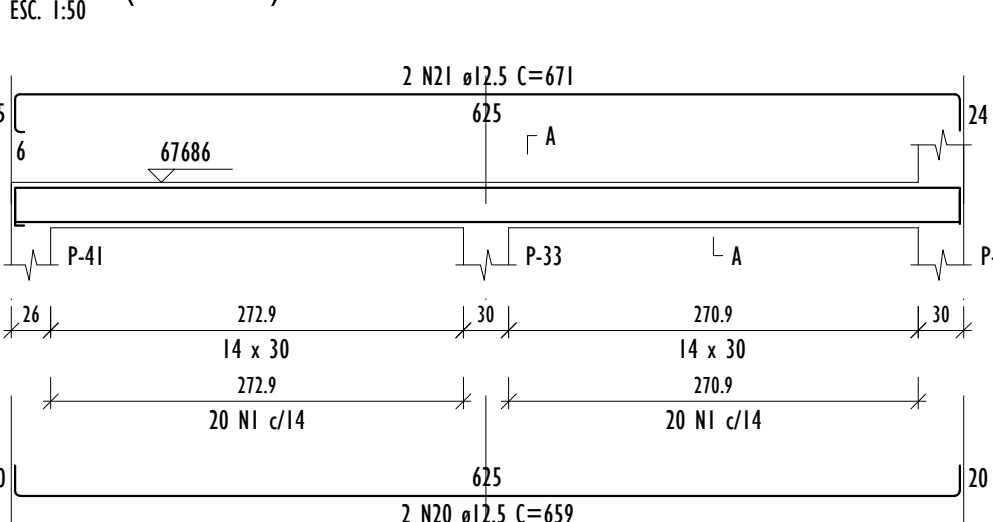
V-204 (14 x 30)



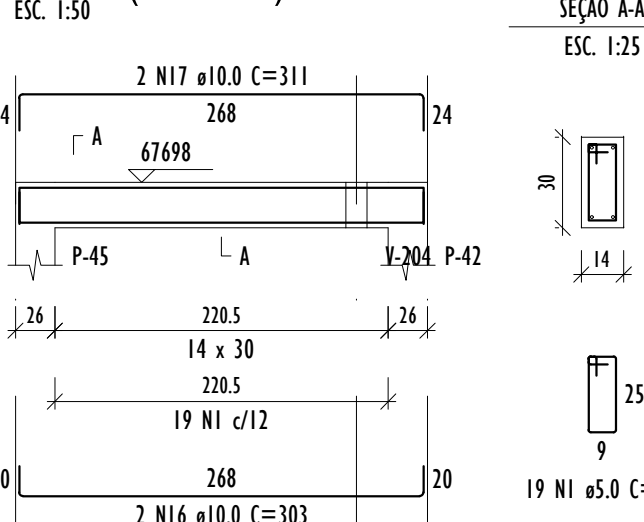
V-205 (14 x 30)



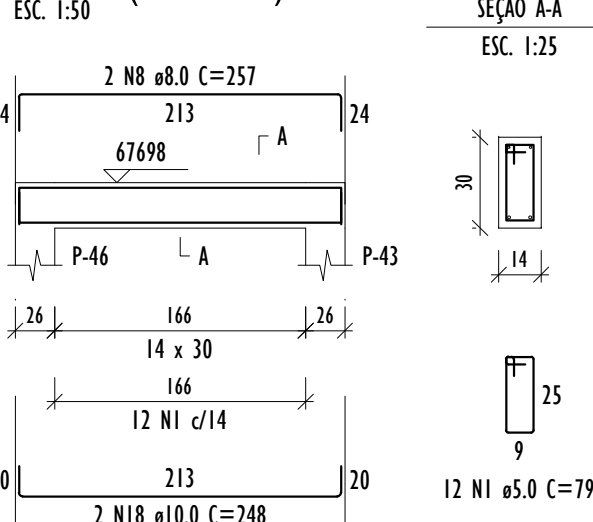
V-207 (14 x 30)



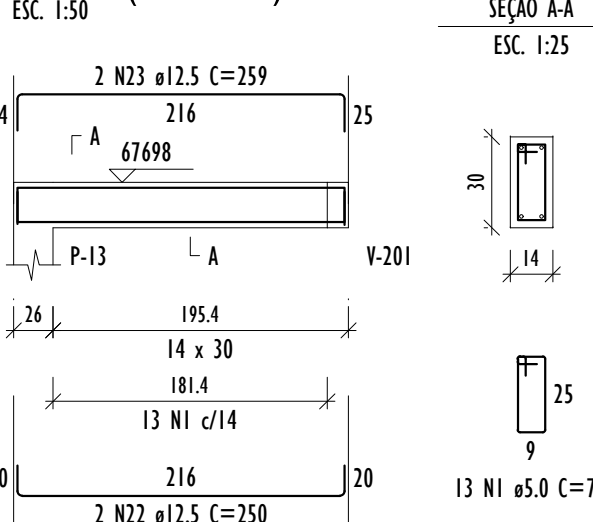
V-208 (14 x 30)



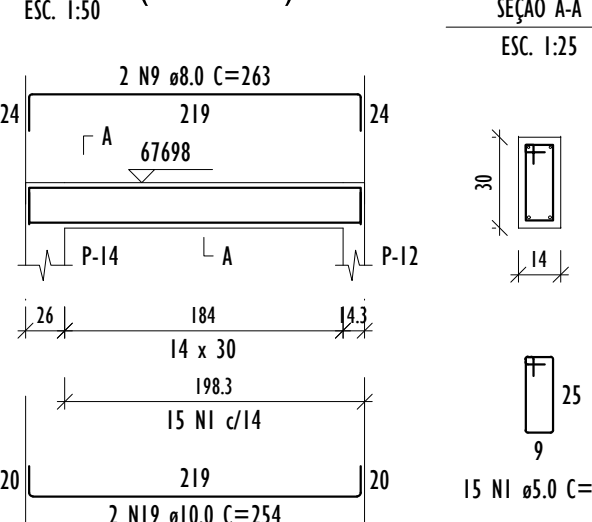
V-209 (14 x 30)



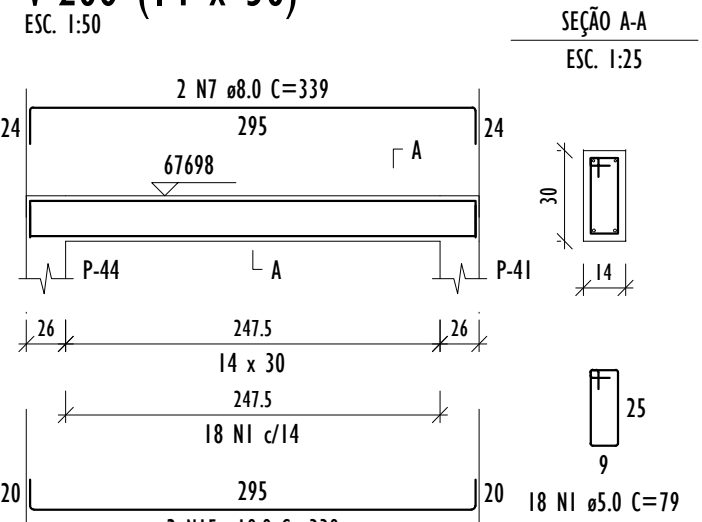
V-210 (14 x 30)



V-211 (14 x 30)



V-206 (14 x 30)



DETALHAMENTO DE VIGAS (NÍVEL 676.98)

ESCALA INDICADA

RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UINIT (cm)	C.TOTAL (cm)
VB-101	1	5.0	495	111	54945
VB-102	2	5.0	38	131	4978
VB-103	3	5.0	5	225	1125
VB-104	4	6.3	1	77	77
VB-105	5	6.3	2	77	154
VB-106	6	10.0	2	1102	2204
VB-107	7	10.0	2	170	340
VB-108	8	10.0	2	423	846
VB-109	9	10.0	4	1200	4800
VB-110	10	10.0	2	368	736
VB-111	11	10.0	1	1128	2256
VB-112	12	10.0	2	631	1262
VB-113	13	10.0	2	483	966
VB-114	14	10.0	2	259	518
VB-115	15	10.0	2	287	574
VB-116	16	10.0	2	256	512
VB-117	17	10.0	2	284	568
VB-118	18	10.0	2	171	342
VB-119	19	10.0	2	199	398
VB-120	20	10.0	2	899	1798
VB-121	21	10.0	2	521	1042
VB-122	22	10.0	2	1134	2268
VB-123	23	10.0	2	219	438
VB-124	24	12.5	2	406	812
VB-125	25	12.5	1	234	234
VB-126	26	12.5	2	434	868
VB-127	27	12.5	1	326	326
VB-128	28	12.5	2	1029	2058
VB-129	29	12.5	2	356	712
VB-130	30	12.5	1	369	369
VB-131	31	12.5	1	390	390
VB-132	32	12.5	2	1132	2264
VB-133	33	12.5	2	230	460
VB-134	34	12.5	1	269	269
VB-135	35	12.5	2	1108	2216
VB-136	36	12.5	2	173	346
VB-137	37	12.5	2	612	1224
VB-138	38	12.5	1	190	190
VB-139	39	12.5	1	325	325
VB-140	40	12.5	1	200	200
VB-141	41	12.5	2	235	470
VB-142	42	12.5	2	217	434
VB-143	43	12.5	2	1197	2394
VB-144	44	12.5	2	629	1258

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	6.3	1.5	1	0.4
CASO	10.0	218.7	19	134.8
CASO	12.5	178.2	15	171.7
CASO	5.0	610.5	51	94.1

PESO TOTAL (kg)	
CASO	306.9
CASO	94.1

Volume de concreto (C=30) = 5.80 m³
Área de forma = 71.05 m²

RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UINIT (cm)	C.TOTAL (cm)
V-201	1	5.0	222	79	17538
V-202	2	8.0	2	319	638
V-203	3	8.0	2	179	358
V-204	4	8.0	2	398	796
V-205	5	8.0	2	248	496
V-206	6	8.0	2	599	1198
V-207	7	8.0	2	339	678
V-208	8	8.0	2	257	514
V-209	9	8.0	2	263	526
V-210	10	10.0	2	332	664
V-211	11	10.0	2	170	340
V-212	12	10.0	2	389	778
V-213	13	10.0	2	239	478
V-214	14	10.0	2	590	1180
V-215	15	10.0	2	330	660
V-216	16	10.0	2	303	606
V-217	17	10.0	2	311	622
V-218	18	10.0	2	240	480
V-219	19	10.0	2	254	508
V-220	20	12.5	2	659	1318
V-221	21	12.5	2	671	1342
V-222	22	12.5	2	250	500
V-223	23	12.5	2	259	518

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	8.0	52	5	20.5
CASO	10.0	63.3	6	39
CASO	12.5	36.8	4	35.4
CASO	5.0	175.4	15	27

PESO TOTAL (kg)
CASO 95
CASO 27
Volume de concreto (C=30) = 1.25 m³
Área de forma = 19.56 m²

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
03	ATUALIZAÇÃO PLANTA DE SITUAÇÃO	08/2026	RF	LS	SL
02	REVISÃO DETALHAMENTO BLOCOS	07/2026	RF	LS	SL
01	REVISÃO DE PROJETO	06/2026	RF	LS	SL
00	EMISSION INICIAL	05/2026	RF	LS	SL

CONTRATADA:	RES. CREA: 28.498/D ASS: SINVAL LADEIRA/1379724767 2
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CONTRATANTE:	PREFEITURA MUNICIPAL DE JUIZ DE FORA
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ENDEREÇO:	JUIZ DE FORA/MG
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PROGRAMA:	UBS VALADARES
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TÍTULO E CONTEÚDO:	PROJETO EXECUTIVO ESTRUTURAL DETALHAMENTO DE VIGAS NÍVEL 673.95 - PARTE 01/03 DETALHAMENTO DE VIGAS NÍVEL 676.98
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DATA:	MAIO/2026	ESCALA:	INDICADA	FOLHA:	15/23
ARQUIVO:	ESTC-PE-JF691-PLDR-052026-803				