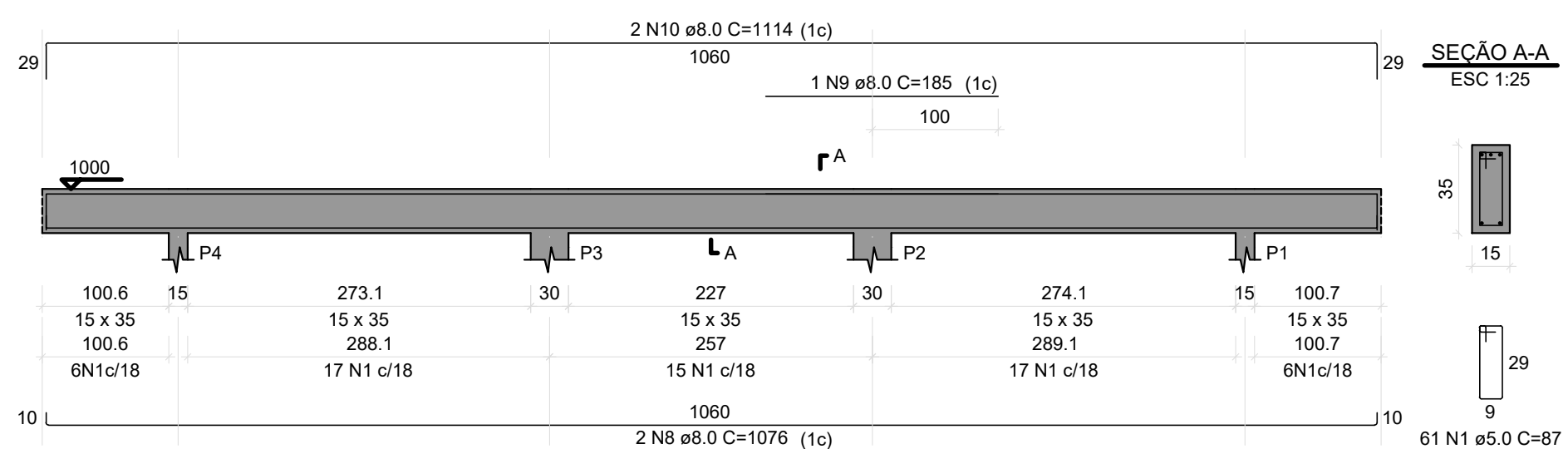


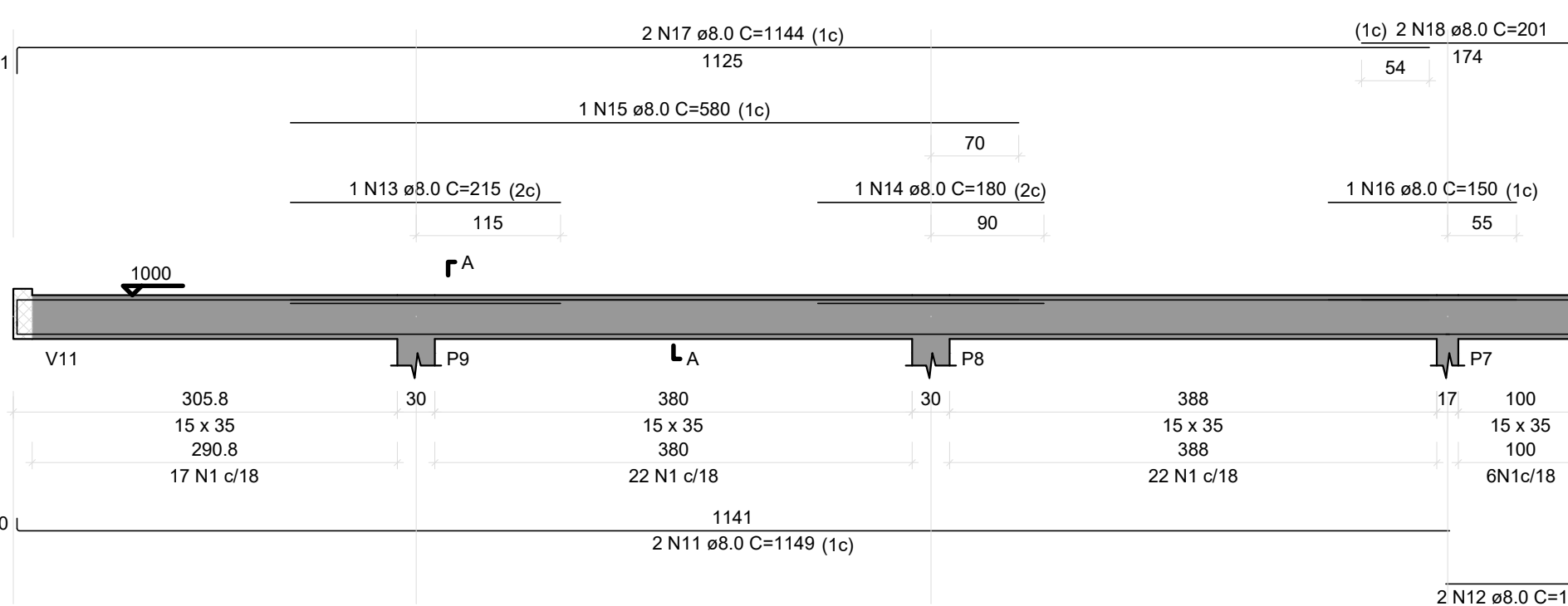
V1

ESC 1:50



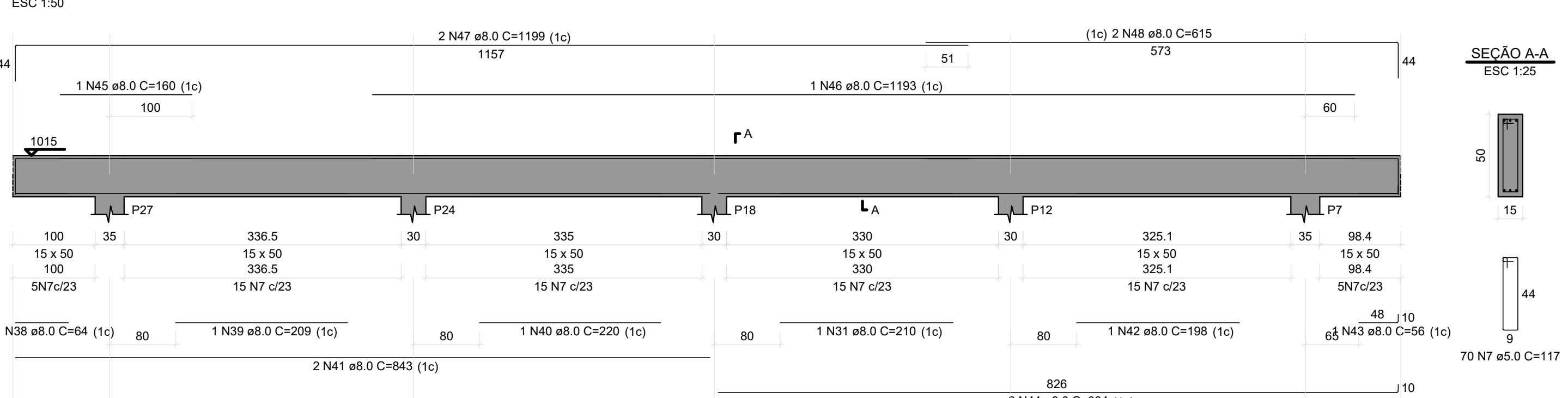
V2

ESC 1:50



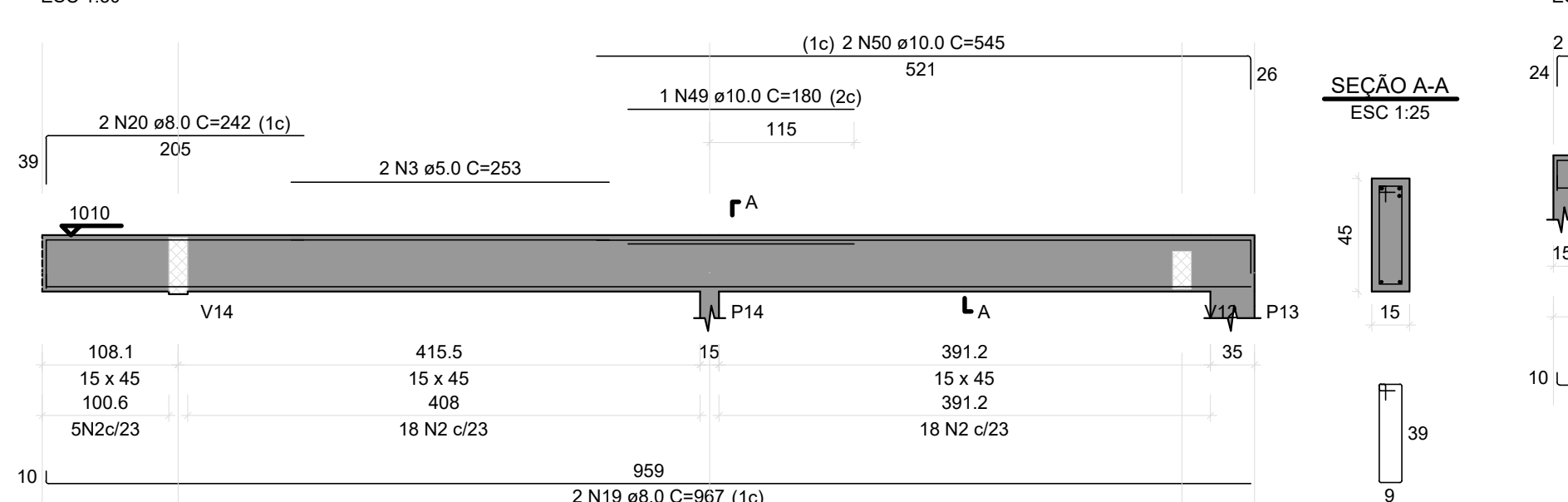
V9

ESC 1:50



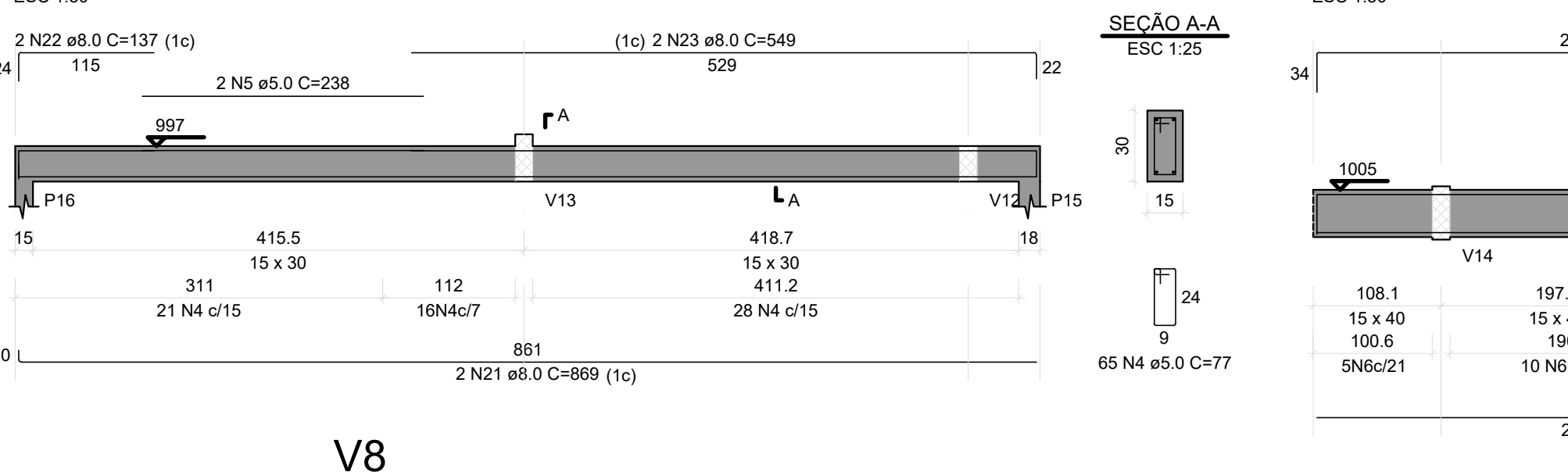
V3

ESC 1:50



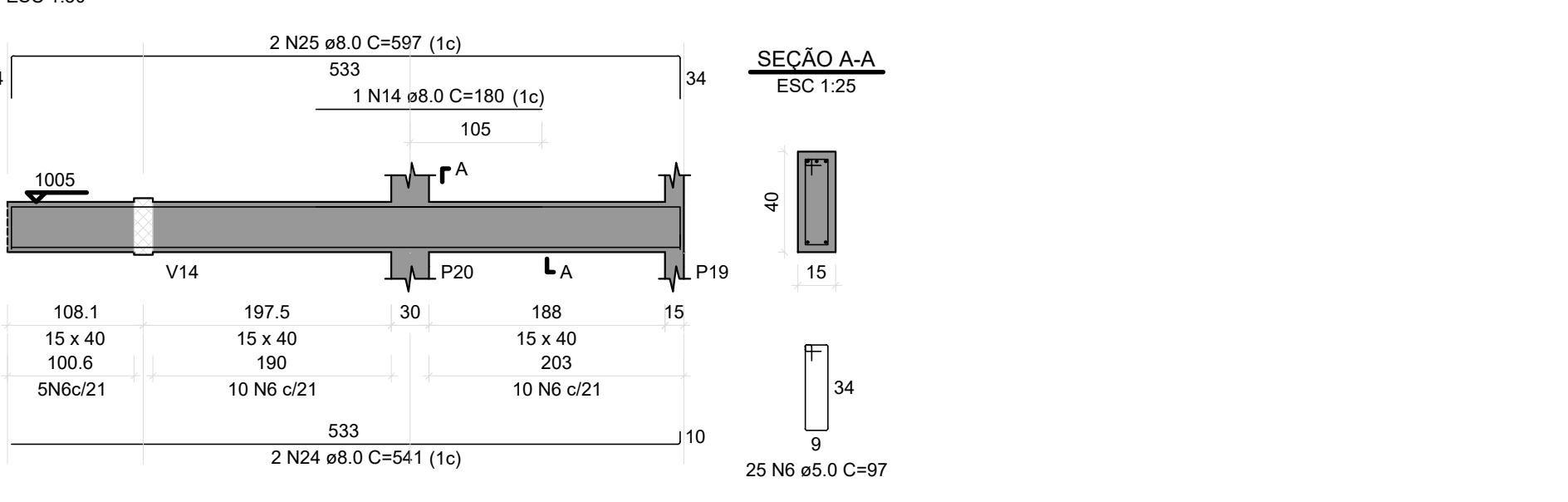
V4

ESC 1:50



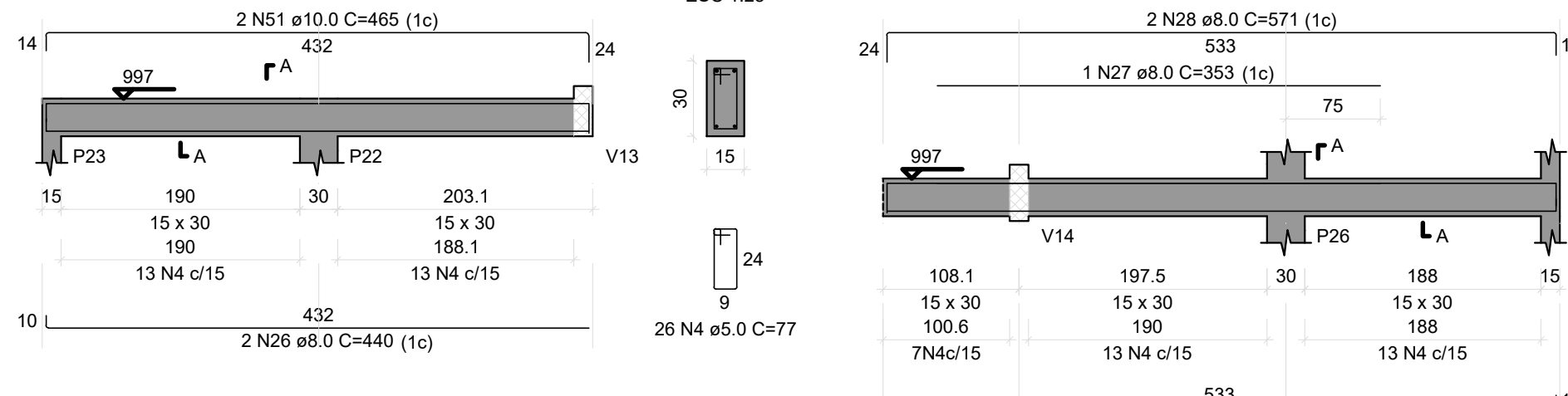
V5

ESC 1:50



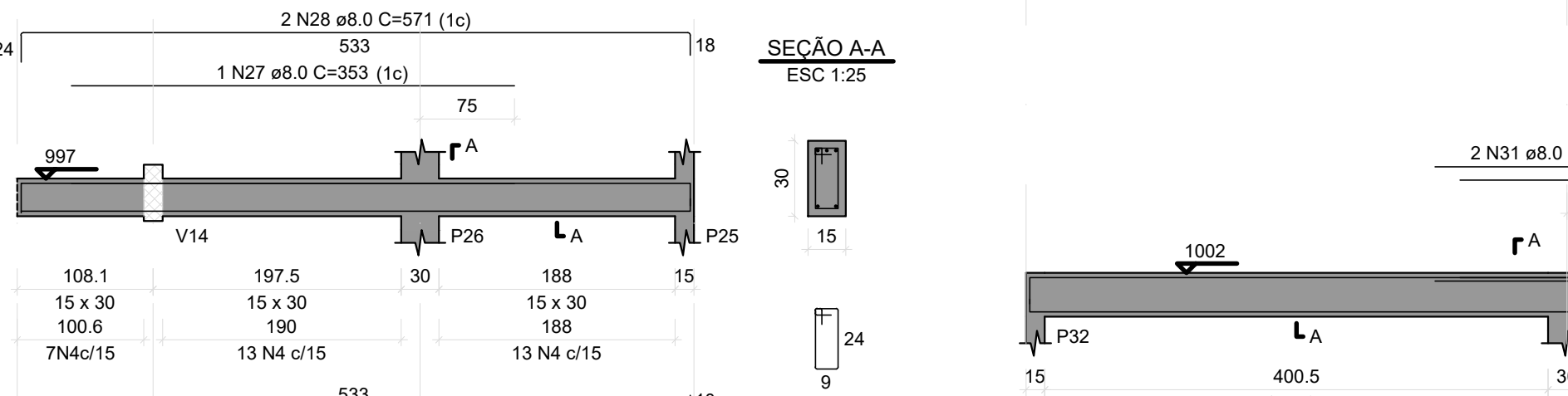
V6

ESC 1:50



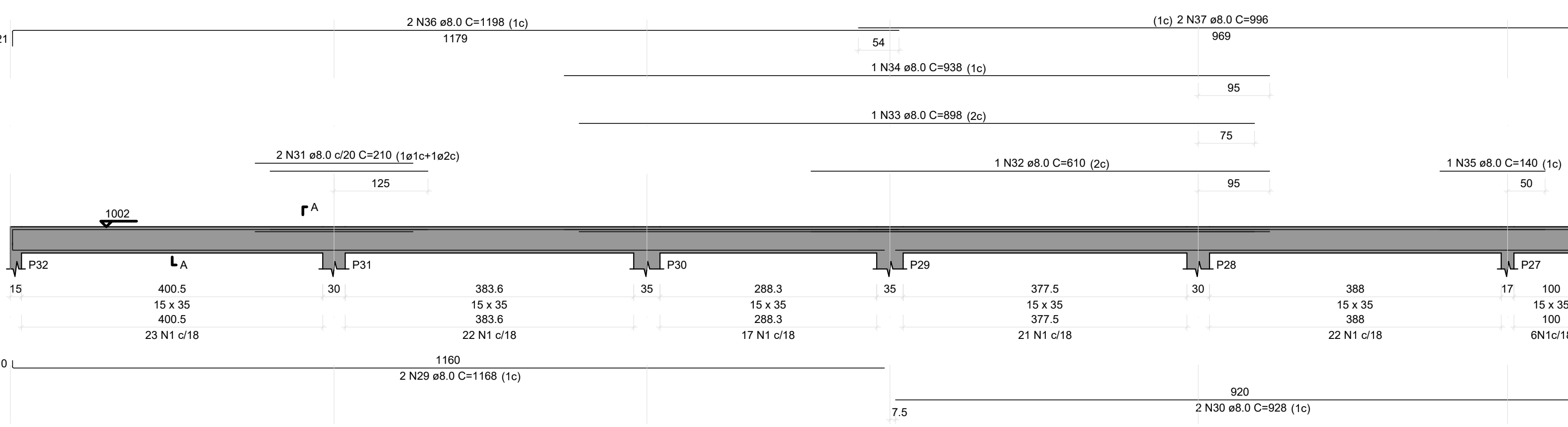
V7

ESC 1:50



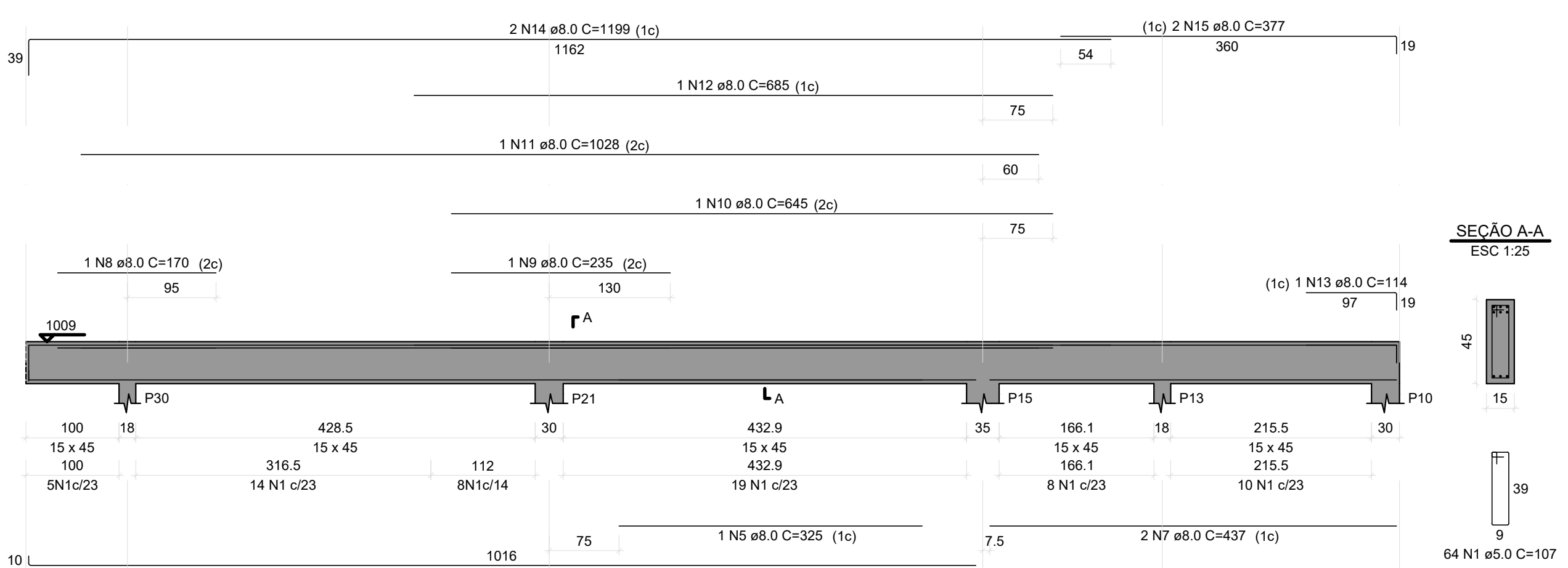
V8

ESC 1:50



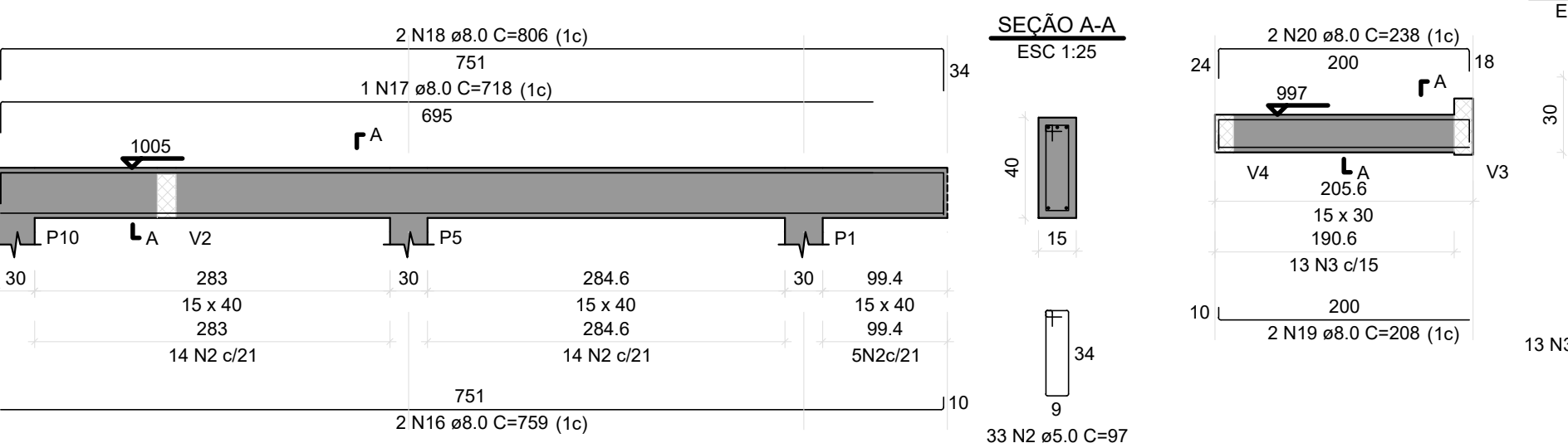
V10

ESC 1:50



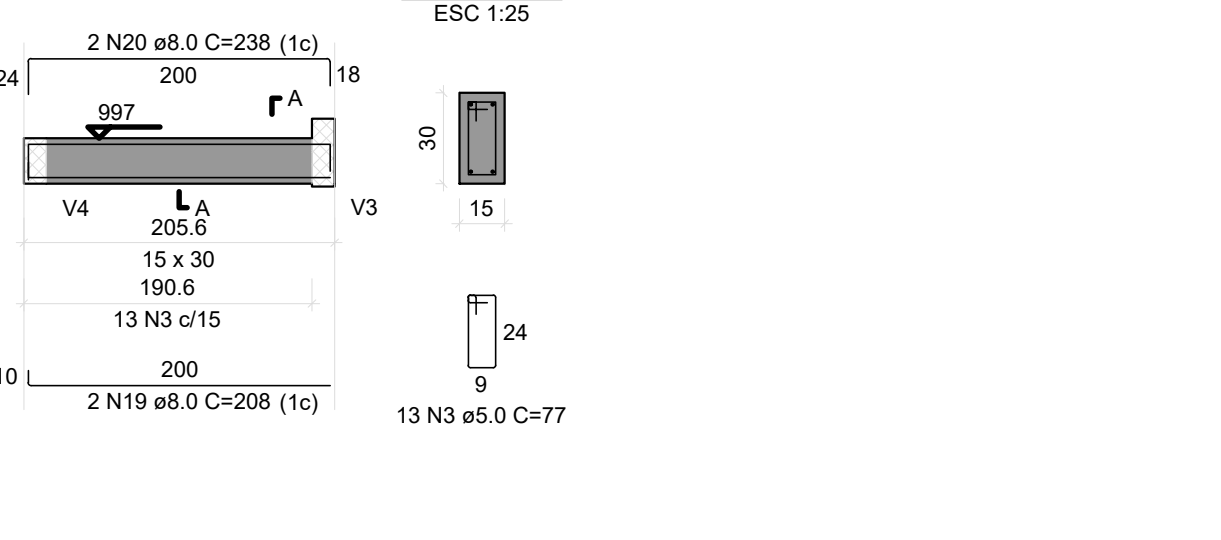
V11

ESC 1:50



V12

ESC 1:50



RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CASO	1	5.0	181	107	17227
	2	5.0	297	87	24029
	3	5.0	13	77	1001
	4	5.0	13	77	1001
	5	5.0	2	335	670
	6	5.0	1024	2048	20948
	7	5.0	427	874	37274
	8	5.0	170	510	8670
	9	5.0	235	702	16509
	10	5.0	1045	1045	10935
	11	5.0	1028	1028	10658
	12	5.0	985	985	9895
	13	5.0	114	114	12996
	14	5.0	1189	2398	28482
	15	5.0	377	154	58158
	16	5.0	759	1518	114522
	17	5.0	718	1718	123666
	18	5.0	505	1812	91456
	19	5.0	235	476	111940
	20	5.0	235	476	111940
	21	5.0	847	1884	159468
	22	5.0	149	149	22201
	23	5.0	271	742	201082
	24	5.0	185	370	68450
	25	5.0	459	459	210781
	26	5.0	459	459	210781
	27	5.0	459	459	210781
	28	5.0	459	459	210781
	29	5.0	459	459	210781
	30	5.0	459	459	210781
	31	5.0	459	459	210781
	32	5.0	459	459	210781
	33	5.0	459	459	210781
	34	5.0	459	459	210781
	35	5.0	459	459	210781
	36	5.0	459	459	210781
	37	5.0	459	459	210781
	38	5.0	459	459	210781
	39	5.0	459	459	210781
	40	5.0	459	459	210781
	41	5.0	459	459	210781
	42	5.0	459	459	210781
	43	5.0	459	459	210781
	44	5.0	459	459	210781
	45	5.0	459	459	210781
	46	5.0	459	459	210781
	47	5.0	459	459	210781
	48	5.0	459	459	210781
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	69	5.0	459	459	210781
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	71	5.0	459	459	210781
	72	5.0	459	459	210781
	73	5.0	459	459	210781
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	76	5.0	459	459	210781
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	79	5.0	459	459	210781
	80	5.0	459	459	210781
	81	5.0	459	459	210781
	82	5.0	459	459	210781
	83	5.0	459	459	210781
	84	5.0	459	459	210781
	85	5.0	459	459	210781
	86	5.0	459	459	210781
	87	5.0	459	459	210781
	88	5.0	459	459	210781
	89	5.0	459	459	210781
	90	5.0	459	459	210781
	91	5.0	459	459	210781
	92	5.0	459	459	210781
	93	5.0	459	459	210781
	94	5.0	459	459	210781
	95	5.0	459	459	210781
	96	5.0	459	459	210781
	97	5.0	459	459	210781
	98	5.0	459	459	210781
	99	5.0	459	459	210781
	100	5.0	459	459	210781

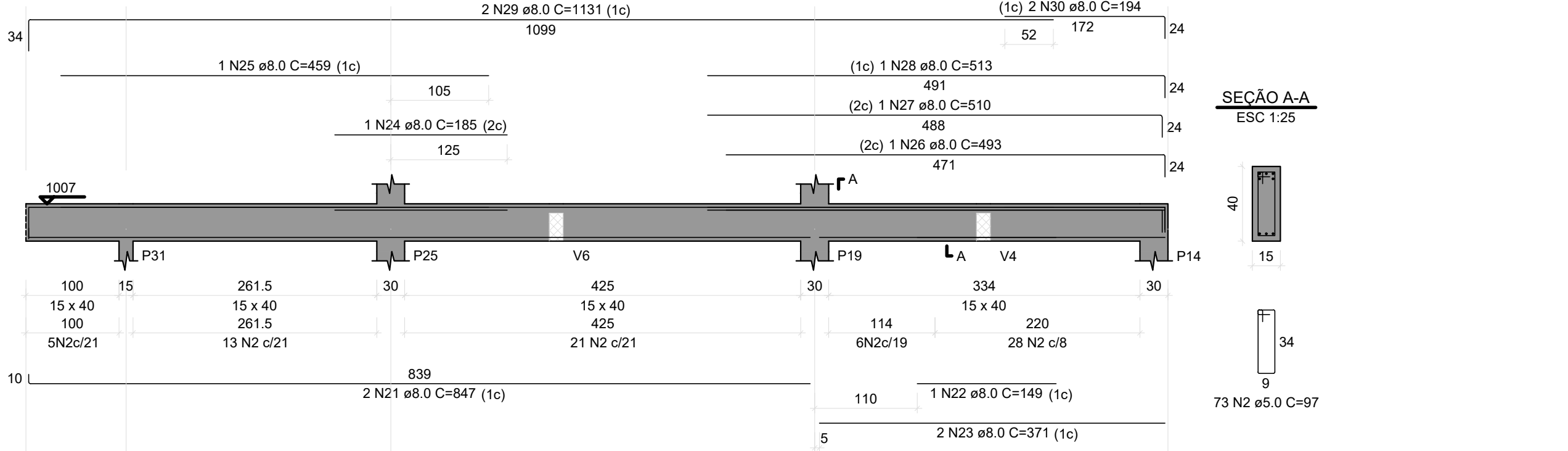
RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CASO	5.0	376.4	148.5
	10.0	63.4	38.1
	12.5	34.5	23.5
	5.0	436.7	87.1
PESO TOTAL			190
CASO	220.9		
CASO	67.3		

Volume de concreto (C-30) = 5.32 m³  
Área de forma = 48.31 m²

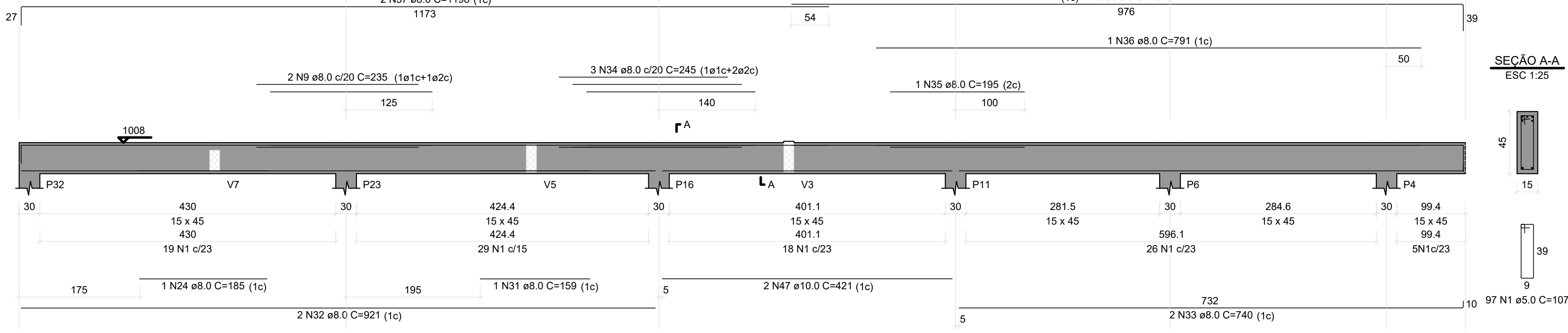
V13

ESC 1:50



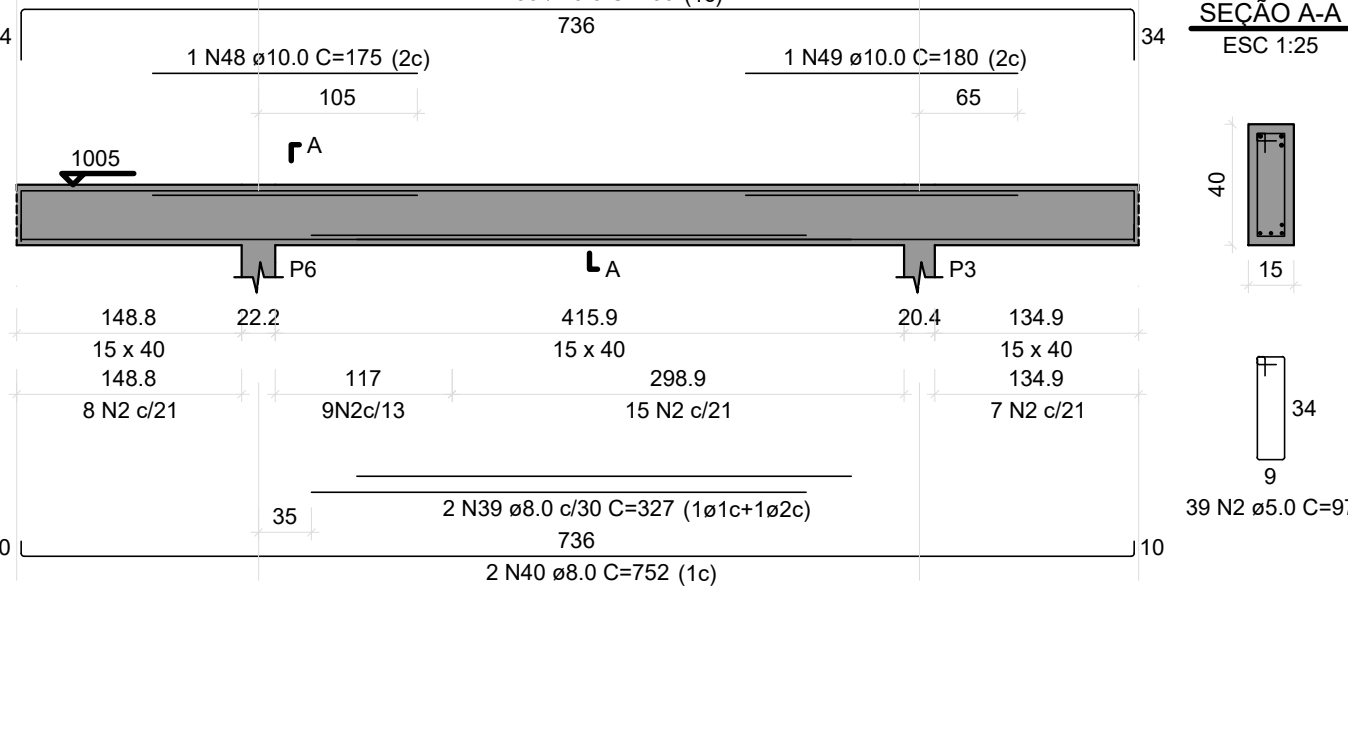
V14

ESC 1:50



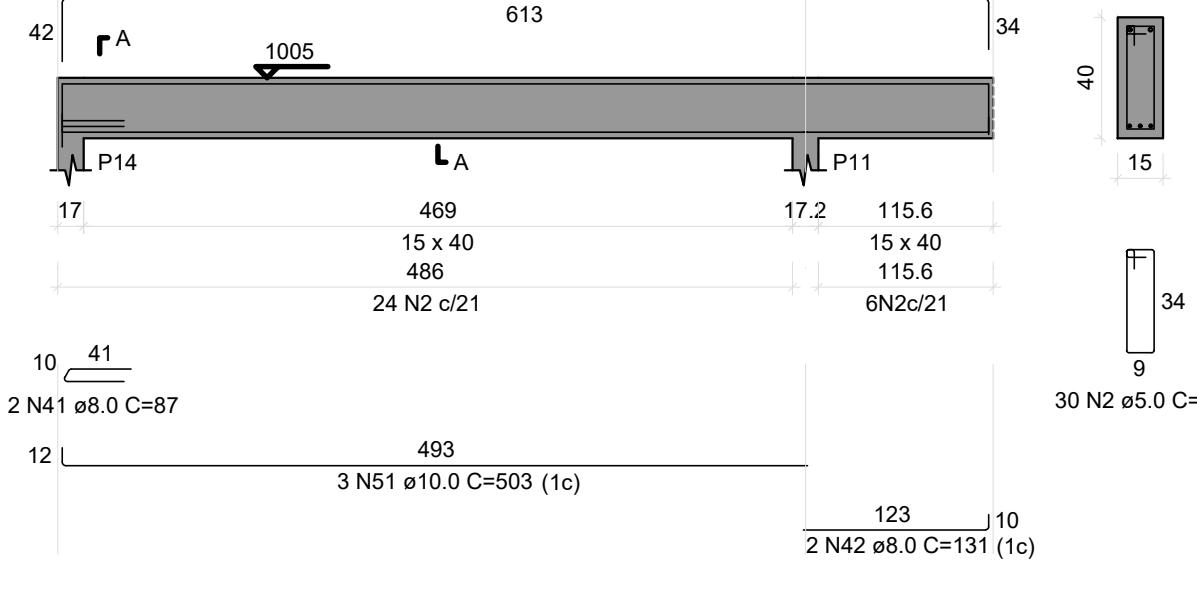
V15

ESC 1:50



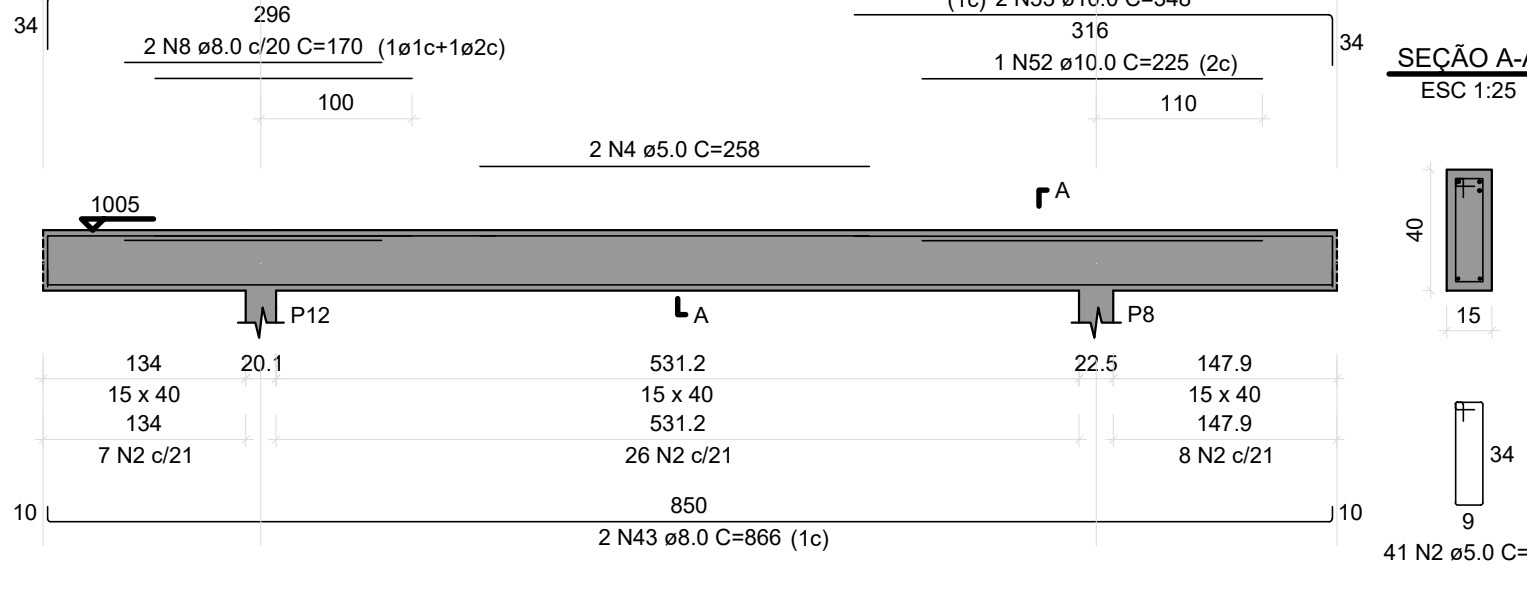
V16

ESC 1:50



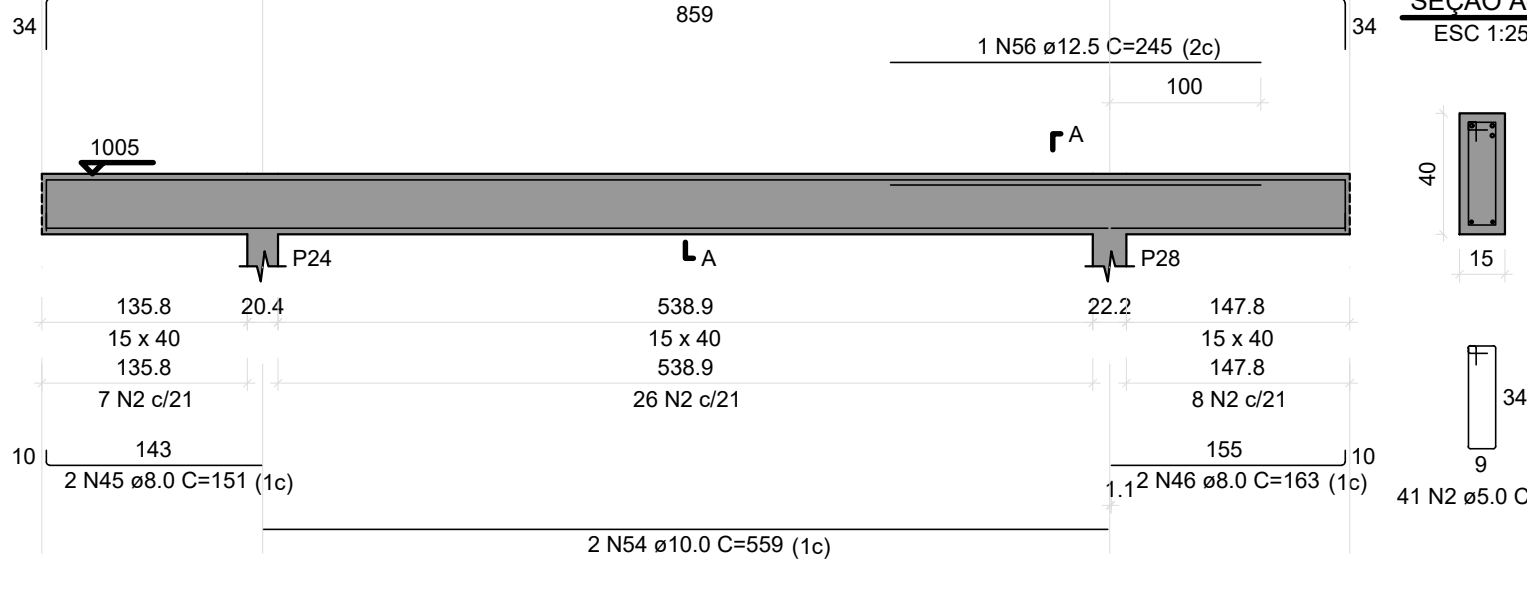
V17

ESC 1:50



V18

ESC 1:50



RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CASO	1	5.0	285	107	30783
	2	5.0	45	87	3927
	3	5.0	253	596	15088
	4	5.0	107	77	8249
	5	5.0	235	476	111940
	6	5.0	1024	2048	20948
	7	5.0	427	874	37274
	8	5.0	170	510	8670
	9	5.0	235	702	16509
	10	5.0	1045	1045	10935
	11	5.0	1028	1028	10658
	12	5.0	985	985	9895
	13	5.0	114	114	12996
	14	5.0	1189	2398	28482
	15	5.0	377	154	58158
	16	5.0	759	1518	114522
	17	5.0	718	1718	123666
	18	5.0	505	1812	91456
	19	5.0	235	476	111940
	20	5.0	235	476	111940
	21	5.0	847	1884	159468
	22	5.0	149	149	22201
	23	5.0	271	742	201082
	24	5.0	185	370	68450
	25	5.0	459	459	210781
	26	5.0	459	459	210781
	27	5.0	459	459	210781
	28	5.0	459	459	210781
	29	5.0	459	459	210781
	30	5.0	459	459	210781
	31	5.0	459	459	210781
	32	5.0	459	459	210781
	33	5.0	459	459	210781
	34	5.0	459	459	210781
	35	5.0	459	459	210781
	36	5.0	459	459	210781
	37	5.0	459	459	210781
	38	5.0	459	459	210781
	39	5.0	459	459	210781
	40	5.0	459	459	210781
	41	5.0	459	459	210781
	42	5.0	459	459	210781
	43	5.0	459	459	210781
	44	5.0	459	459	210781
	45	5.0	459	459	210781
	46	5.0	459	459	210781
	47	5.0	459	459	210781
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	51	5.0	459	459	210781
	52	5.0	459	459	210781
	53	5.0	459	459	210781
	54	5.0	459	459	210781
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	77	5.0	459	459	210781
	78	5.0	459	459	210781
	79	5.0	459	459	210781
	80	5.0	459	459	210781
	81	5.0	459	459	