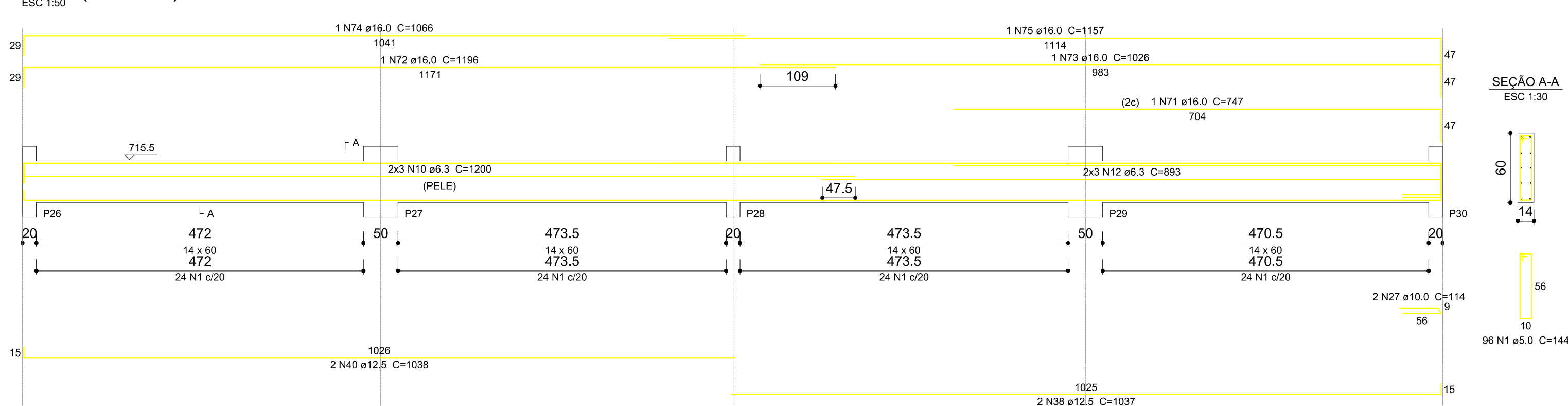
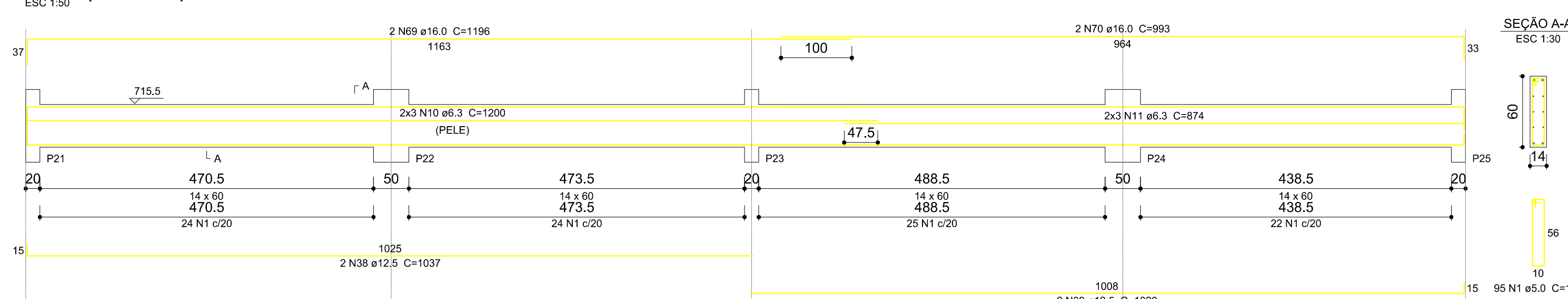
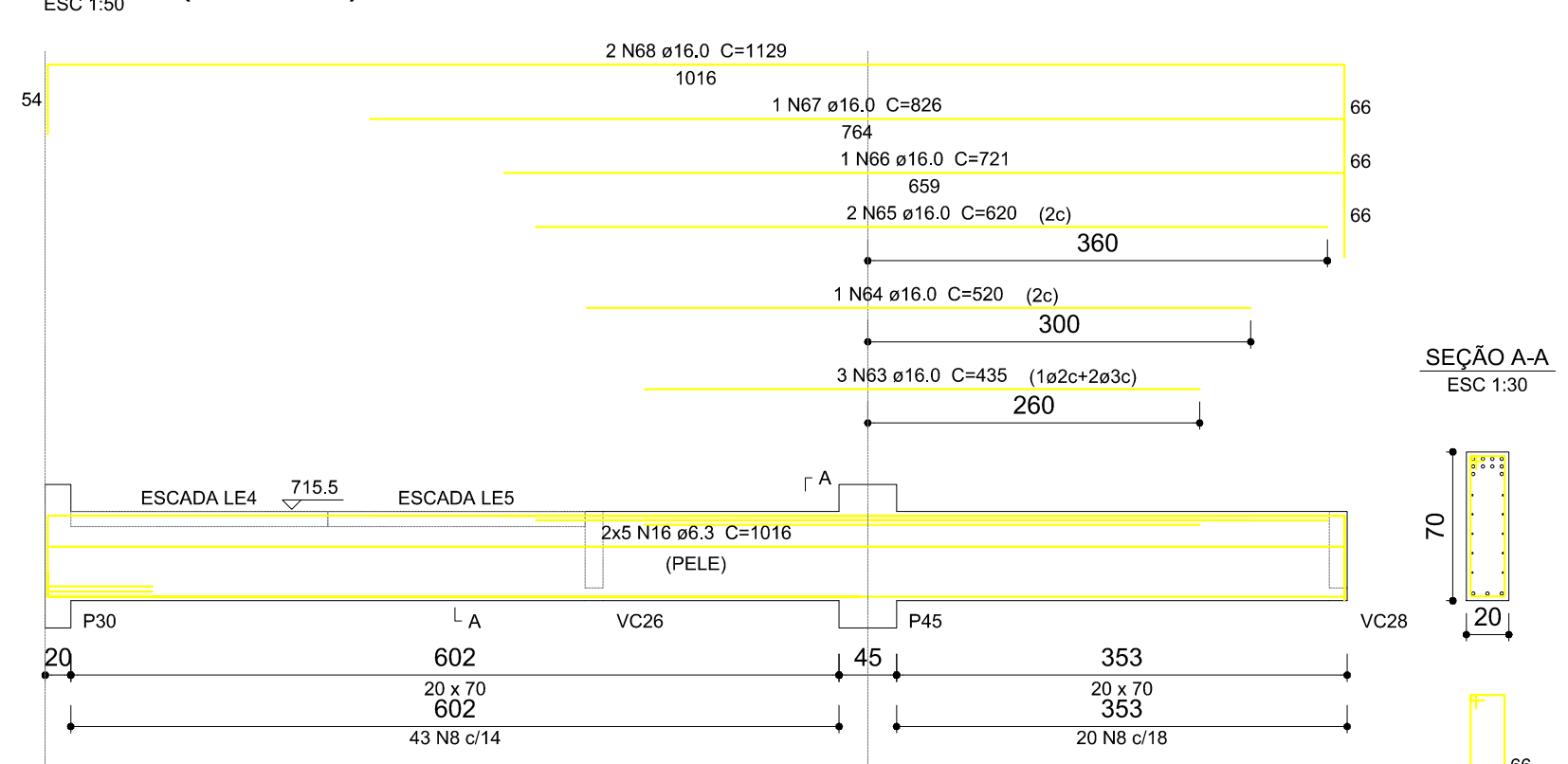
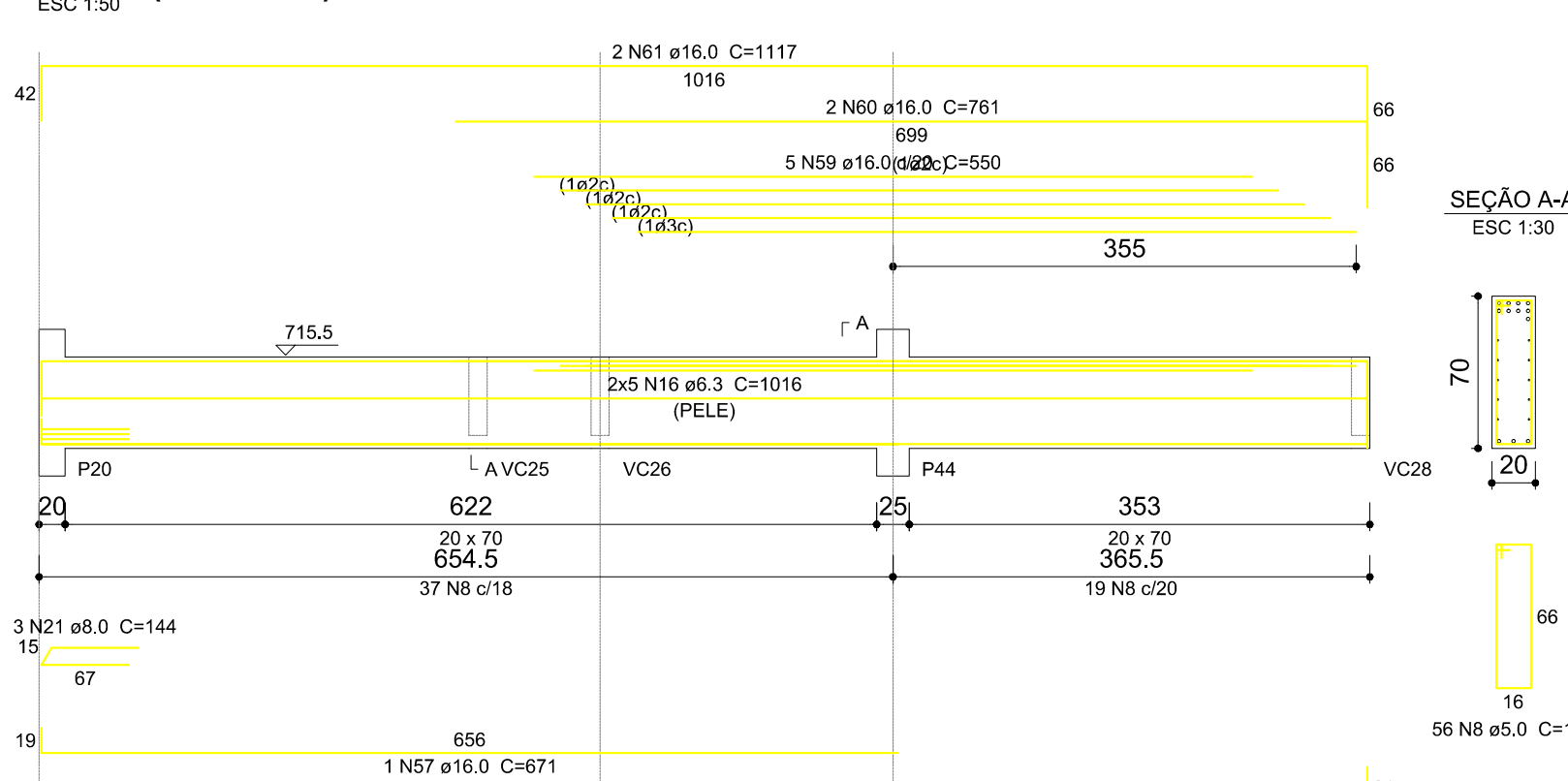
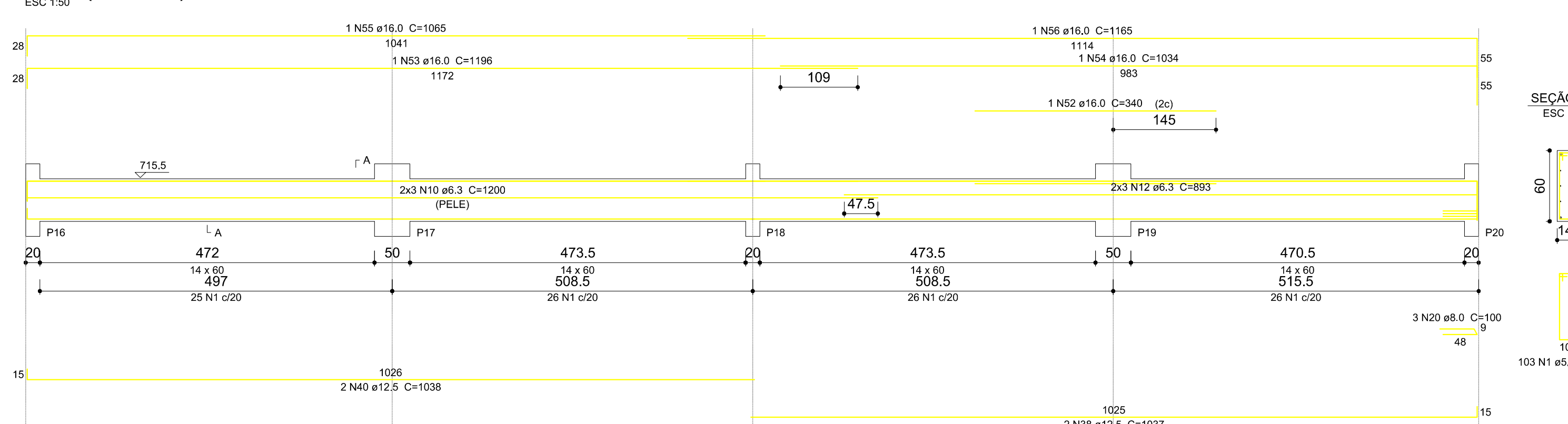
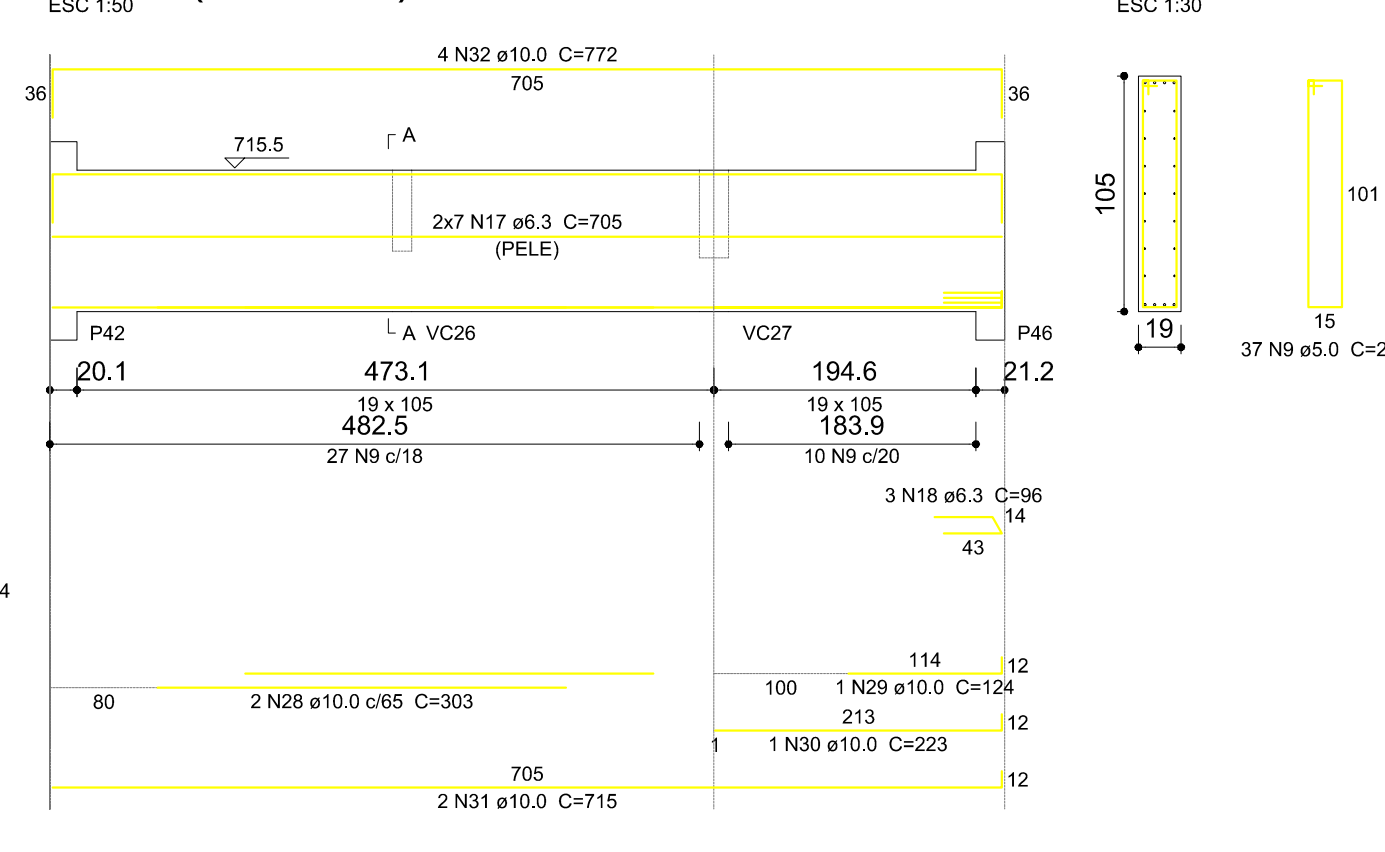
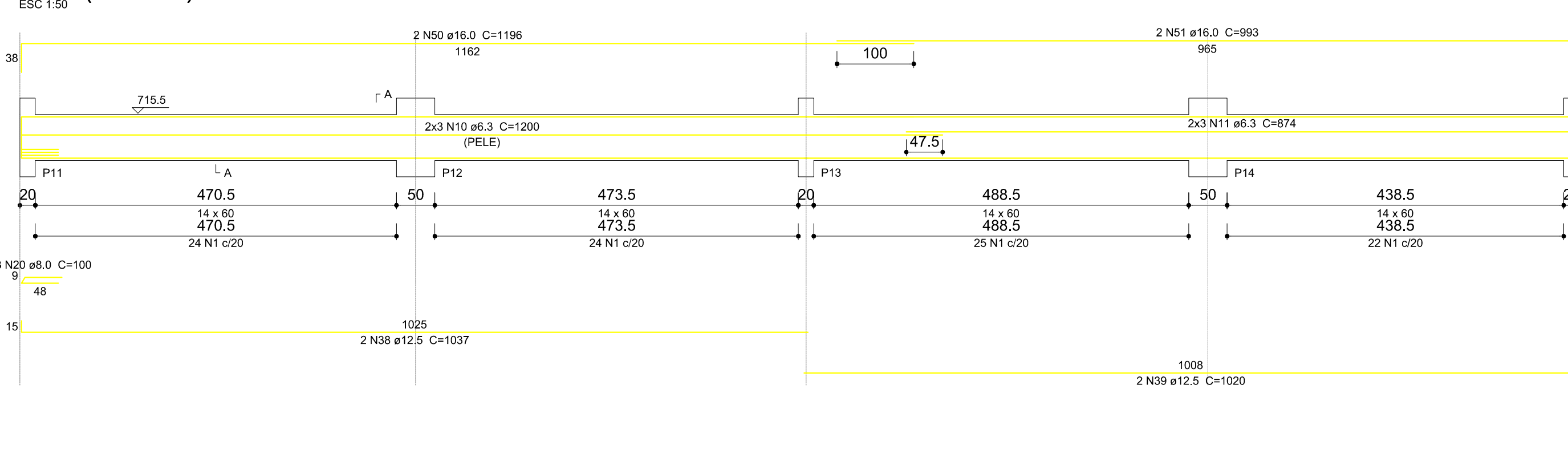
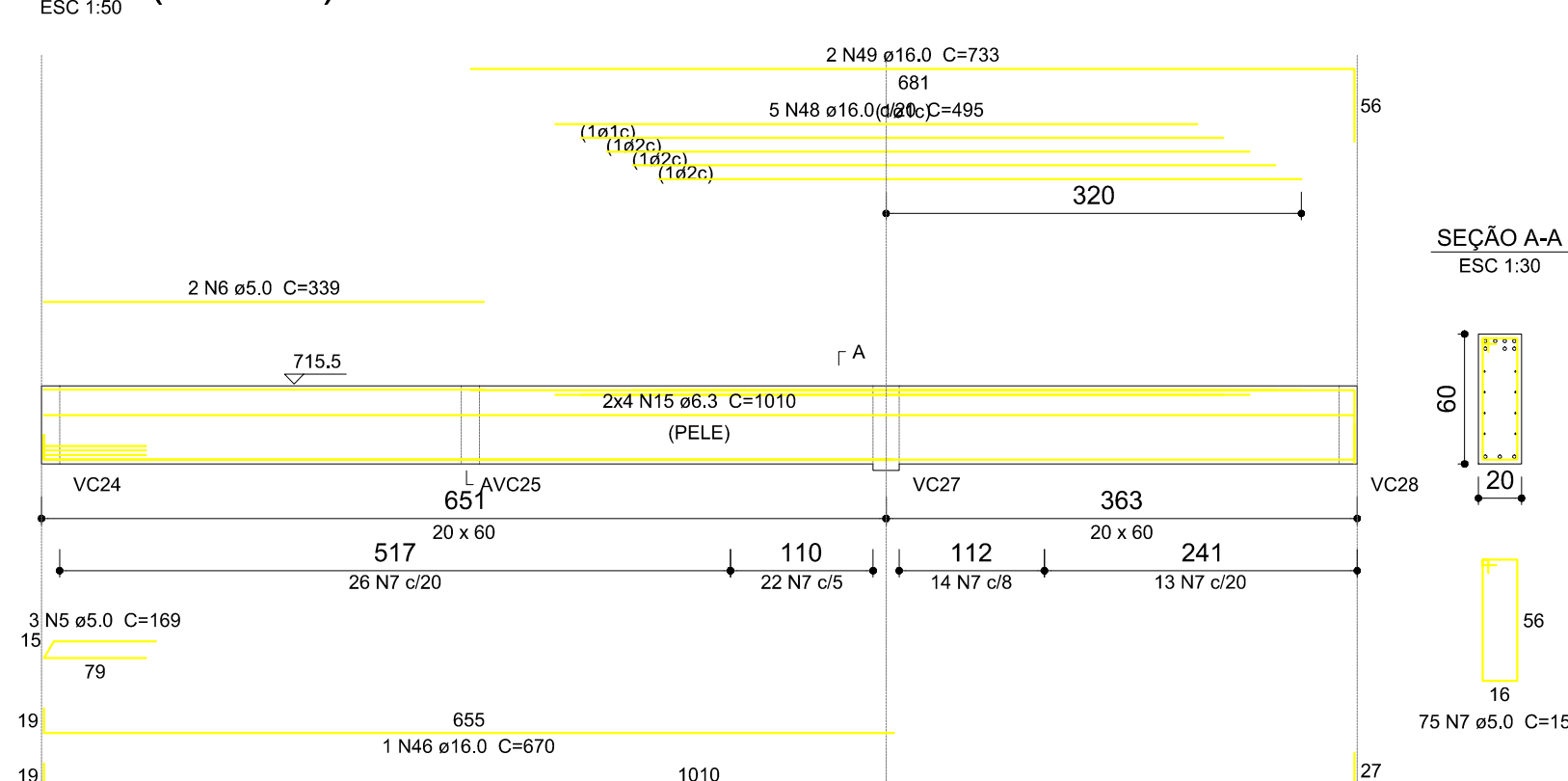
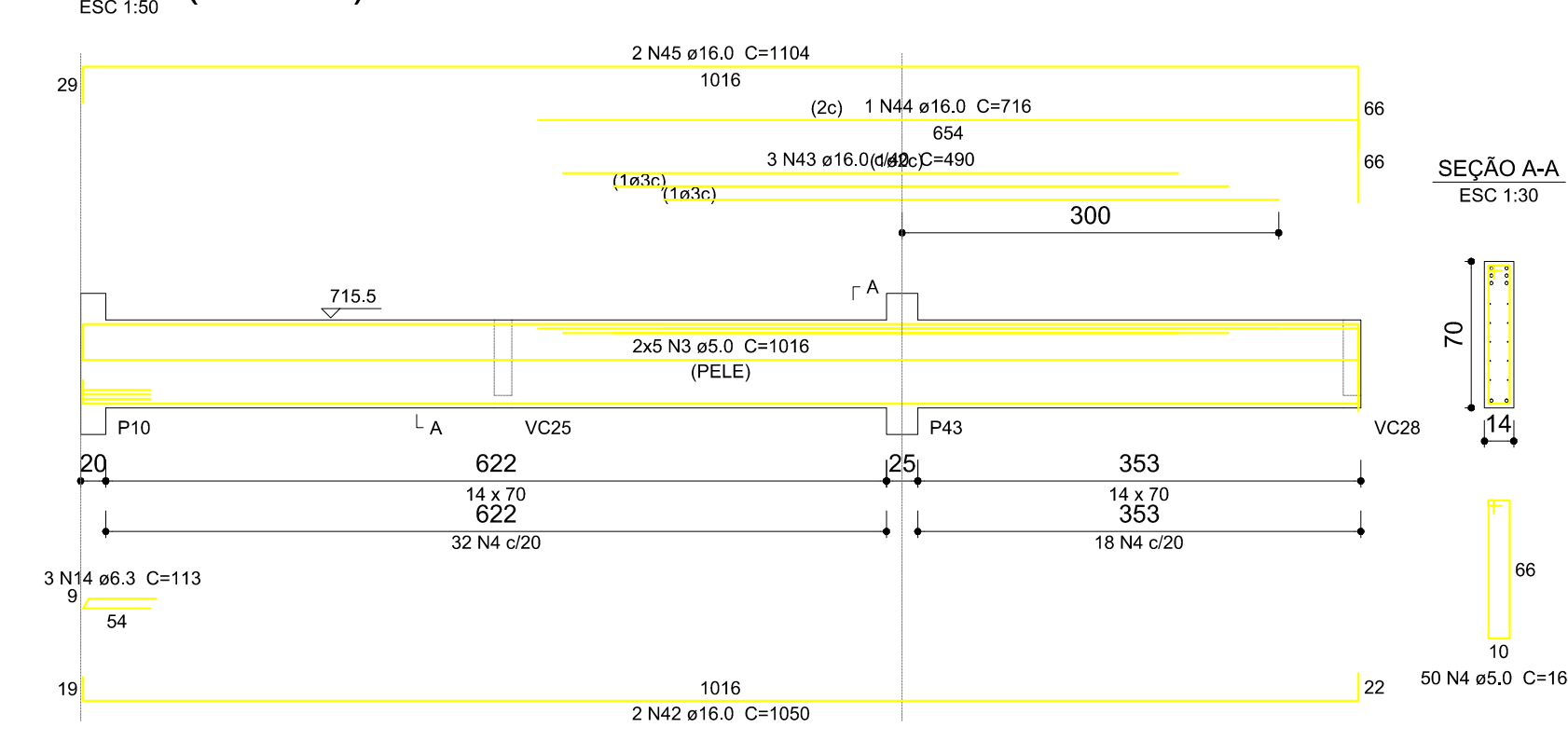
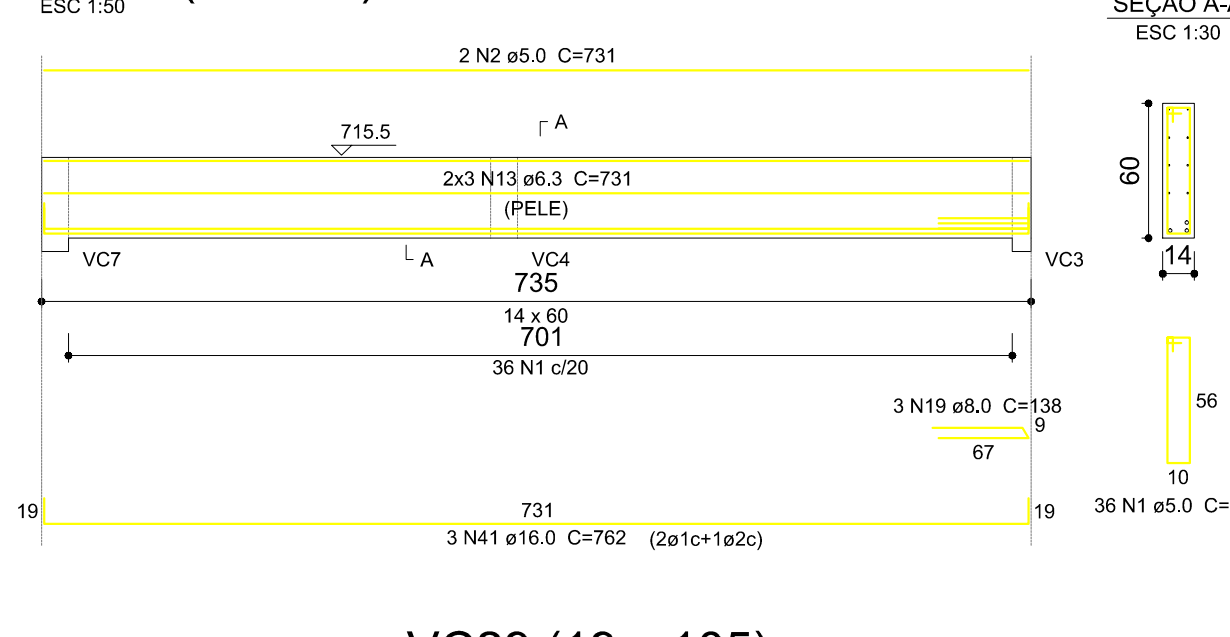
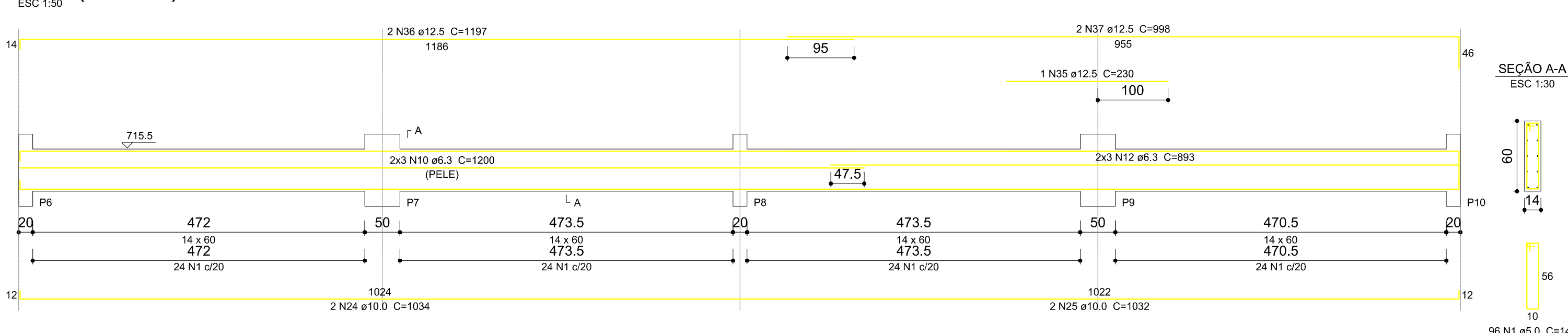
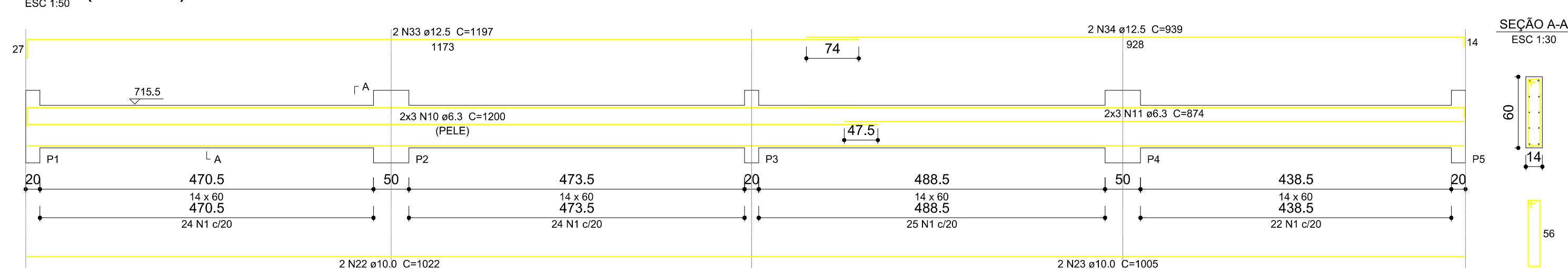




Relação do aço						
ACO	N	DAM	X	Y	UNIT	VAL
C400	1	5,0	2,0	731	144	8071
	2	5,0	10,0	1095	144	8071
	3	5,0	2,0	731	144	8071
	4	5,0	3,0	869	144	8071
	5	5,0	2,0	739	144	8071
	6	5,0	19,0	175	206	1429
	7	5,0	19,0	175	206	1429
	8	5,0	2,0	739	144	8071
	9	5,0	3,0	869	144	8071
	10	5,0	2,0	739	144	8071
C400	11	6,3	36,0	1200	432	1000
	12	6,3	36,0	1200	432	1000
	13	6,3	6,0	883	560	1000
	14	6,3	6,0	883	560	1000
	15	6,3	3,0	113	800	1000
	16	6,3	14,0	705	985	1000
	17	6,3	3,0	86	985	1000
	18	6,3	3,0	138	4	1000
	19	6,3	6,0	100	6	1000
	20	6,3	3,0	144	4	1000
C400	21	8,0	2,0	1002	1000	1000
	22	8,0	2,0	1002	1000	1000
	23	10,0	2,0	1005	20	1000
	24	10,0	2,0	1034	2000	1000
	25	10,0	2,0	1032	2000	1000
	26	10,0	2,0	172	3	1000
	27	10,0	2,0	114	2	1000
	28	10,0	2,0	303	6	1000
	29	10,0	2,0	124	6	1000
	30	10,0	1,0	223	2	1000
C400	31	10,0	2,0	715	24	1000
	32	10,0	4,0	772	300	1000
	33	10,0	2,0	1197	2000	1000
	34	12,5	2,0	939	18	1000
	35	12,5	2,0	939	18	1000
	36	12,5	2,0	1197	2000	1000
	37	12,5	2,0	998	1900	1000
	38	12,5	8,0	1037	1000	1000
	39	12,5	4,0	1020	4000	1000
	40	12,5	4,0	1038	4000	1000
C400	41	16,0	3,0	762	231	1000
	42	16,0	2,0	1050	2000	1000
	43	16,0	3,0	490	14	1000
	44	16,0	3,0	716	8	1000
	45	16,0	2,0	1104	221	1000
	46	16,0	2,0	1049	2000	1000
	47	16,0	5,0	495	24	1000
	48	16,0	5,0	733	2000	1000
	49	16,0	2,0	1196	2300	1000
	50	16,0	2,0	963	2000	1000
C400	51	16,0	1,0	340	3	1000
	52	16,0	1,0	1196	1900	1000
	53	16,0	1,0	1034	100	1000
	54	16,0	1,0	1065	1000	1000
	55	16,0	1,0	1165	1100	1000
	56	16,0	1,0	671	1000	1000
	57	16,0	1,0	1009	42	1000
	58	16,0	5,0	550	2700	1000
	59	16,0	1,0	761	1100	1000
	60	16,0	1,0	691	1100	22
C400	61	16,0	3,0	435	130	1000
	62	16,0	1,0	420	1000	1000
	63	16,0	2,0	1022	12	1000
	64	16,0	1,0	721	1000	1000
	65	16,0	1,0	826	8	1000
	66	16,0	2,0	1129	2000	1000
	67	16,0	2,0	1196	2300	1000
	68	16,0	2,0	993	1900	1000
	69	16,0	1,0	747	1000	1000
	70	16,0	1,0	1196	1100	1000
C400	71	16,0	1,0	1029	1000	1000
	72	16,0	1,0	1068	1000	1000
	73	16,0	1,0	1117	1000	1000
	74	16,0	1,0	1068	1000	1000
	75	16,0	1,0	1117	1000	1000
	76	16,0	1,0	1068	1000	1000
	77	16,0	1,0	1117	1000	1000
	78	16,0	1,0	1068	1000	1000
	79	16,0	1,0	1117	1000	1000
	80	16,0	1,0	1068	1000	1000

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1182.9	318.4
	8.0	14.5	6.3
	10.0	142.3	96.5
	12.5	254.2	269.4
	16.0	531.8	923.1
CA60	5.0	1513.9	256.7

Vol. de concreto total (C-25) = 17.39 m³
Área de forma total = 252.67 m²

	FB ENGENHARIA LTDA <i>Felisberto & Jaiava Associados</i>	
	FB ENGENHARIA LTDA CNPJ: 08.582.028/0001-96 CREA-SC: 02.125-1 - VIDEIRA-SC	
	www.fbengenharia.com www.felengenharia.com Fone: (49) 3566.5862	
	INSTITUTO FEDERAL CATARINENSE 425 27/32	
Obra: EDIFICAÇÃO PARA SALAS DE AULA E OFICINAS RUA: RODOVIA SC 303 - VIDEIRA - SC		
Resp. Técnico: Eng. Civil FABIANO BIAVA CREA-SC: 105814 Descrição:		
Assinatura Proprietária:		
VIGAS COBERTURA (01/03)		
Número FB ENGENHARIA	Unidade CENTRÍMETROS	Data FEVEREIRO 2013
Escala INDICADA	Área 2,544,15m²	