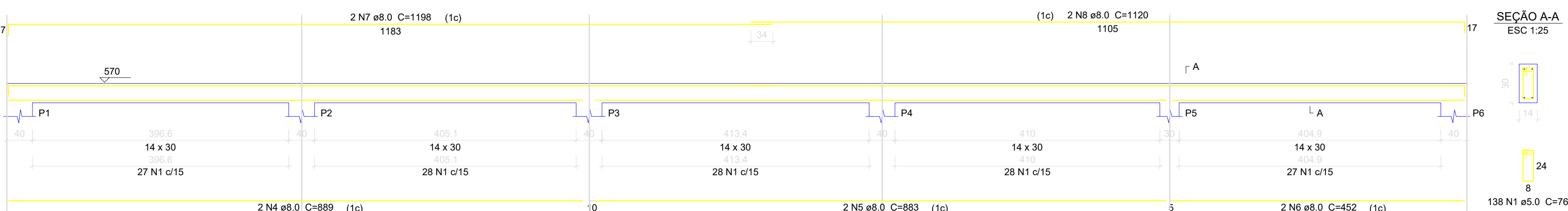
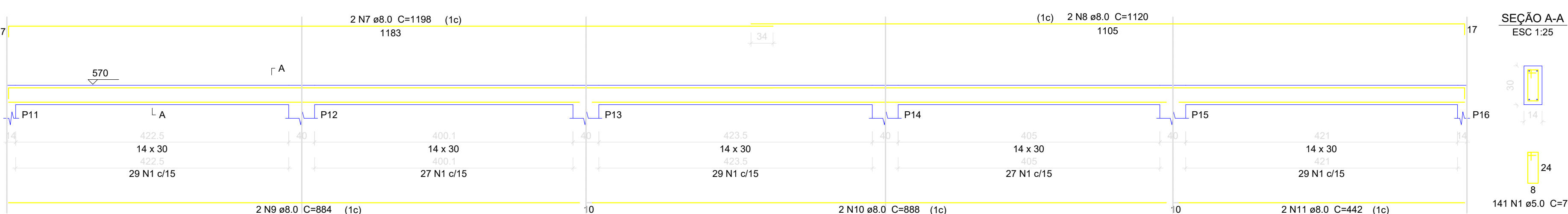


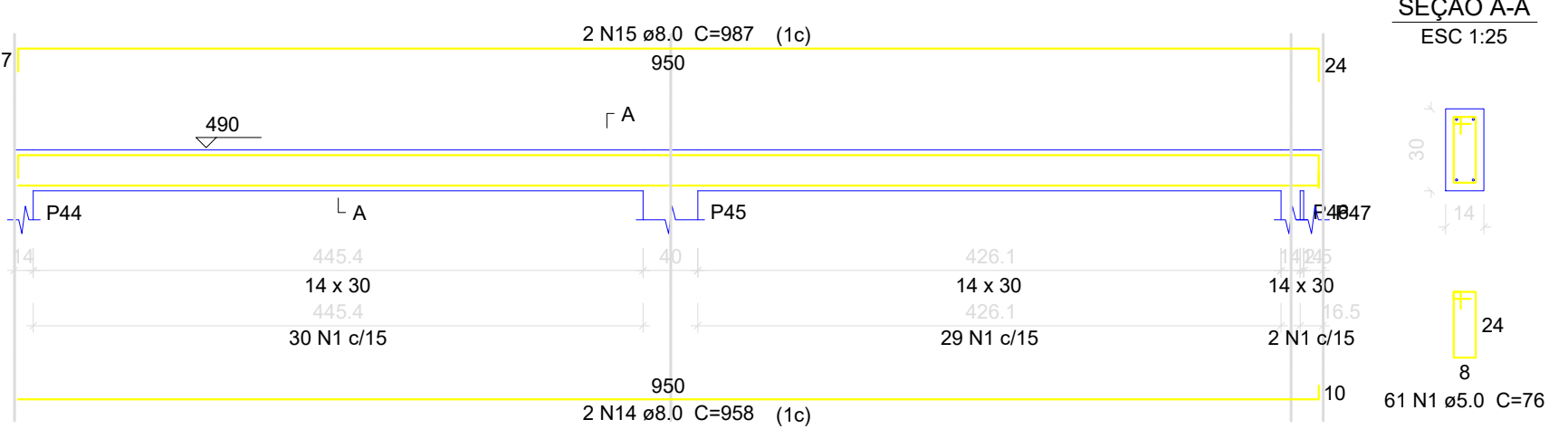
VRP300



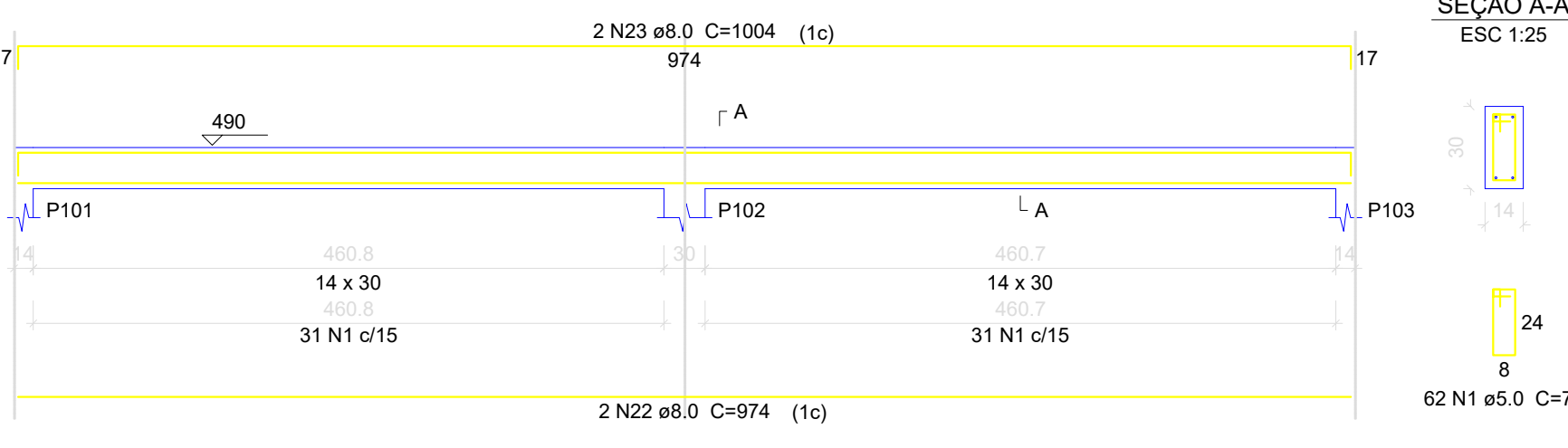
VRP301



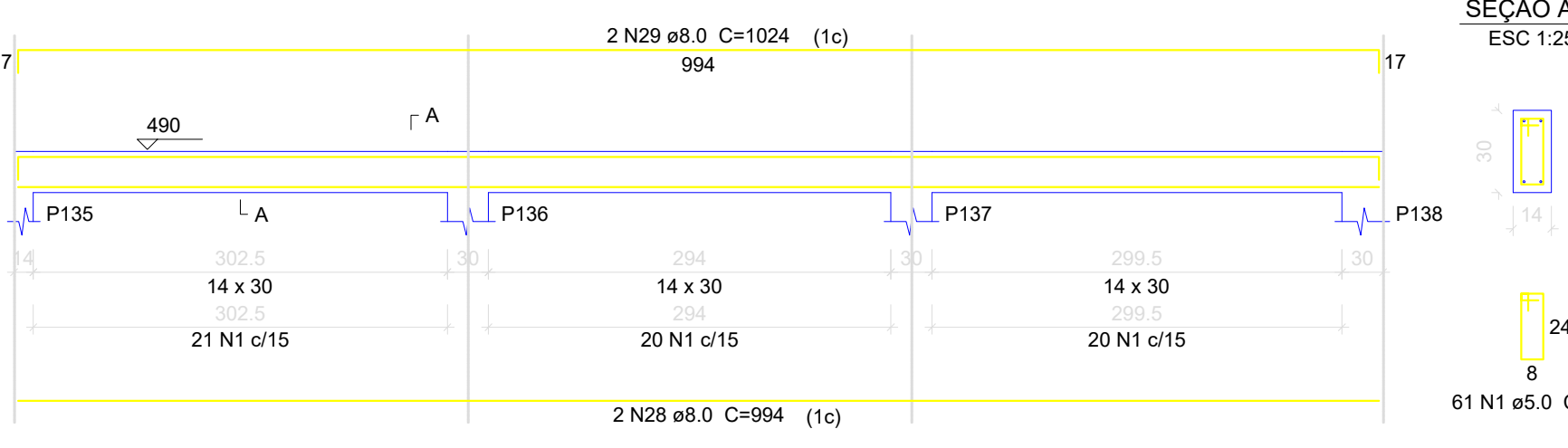
VRP303



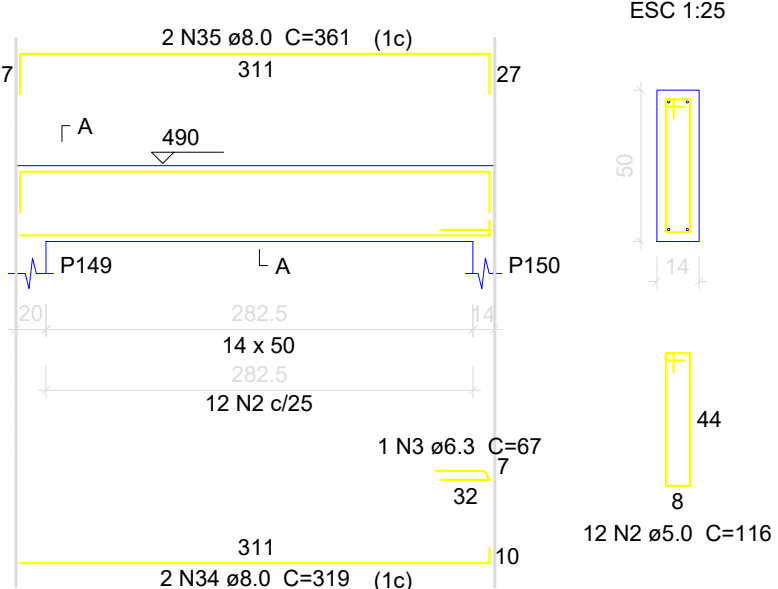
VRP307



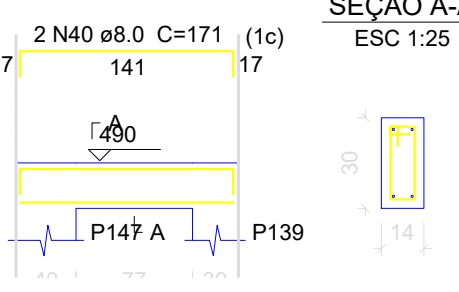
VRP309



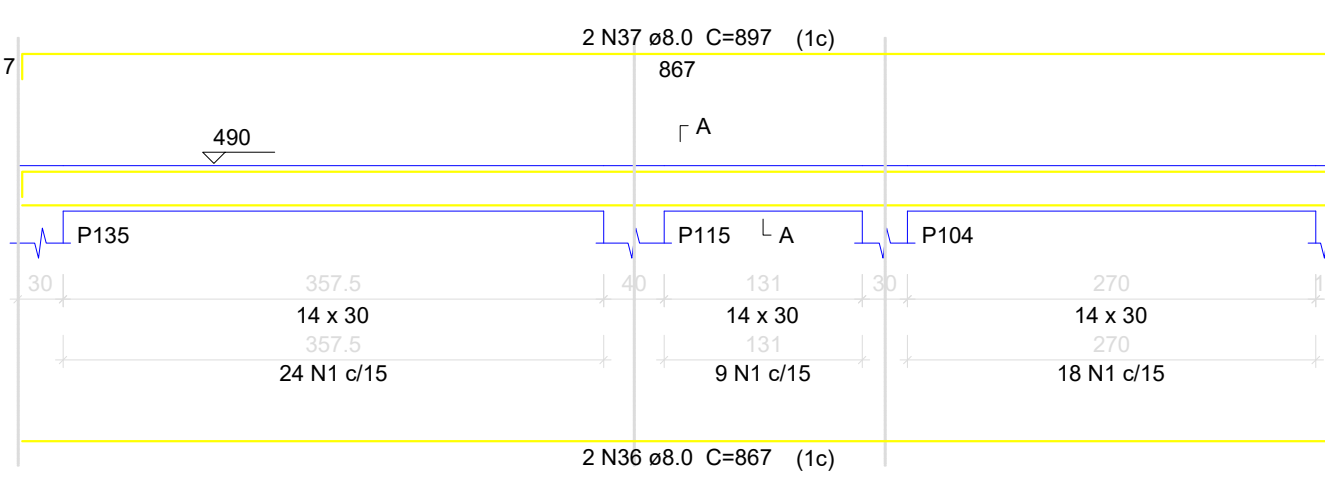
VRP312



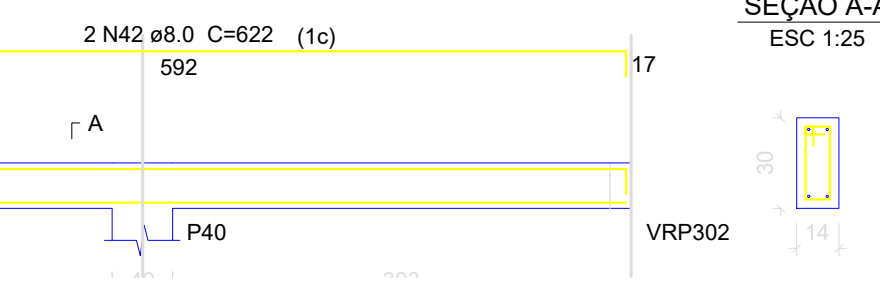
VRP315



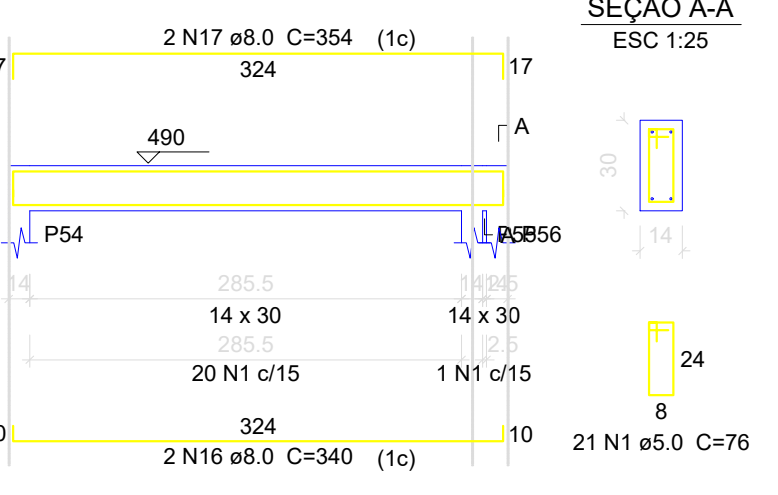
VRP313



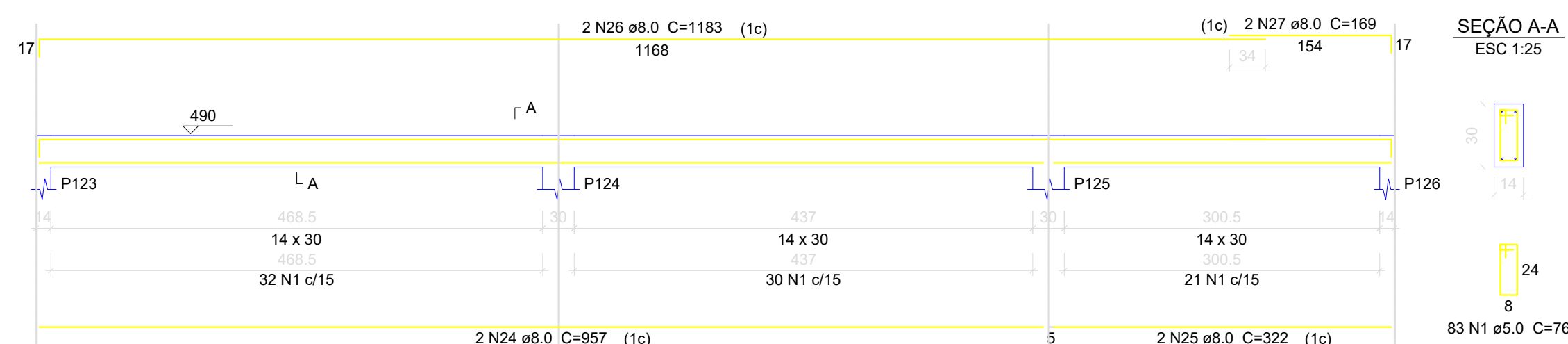
VRP316



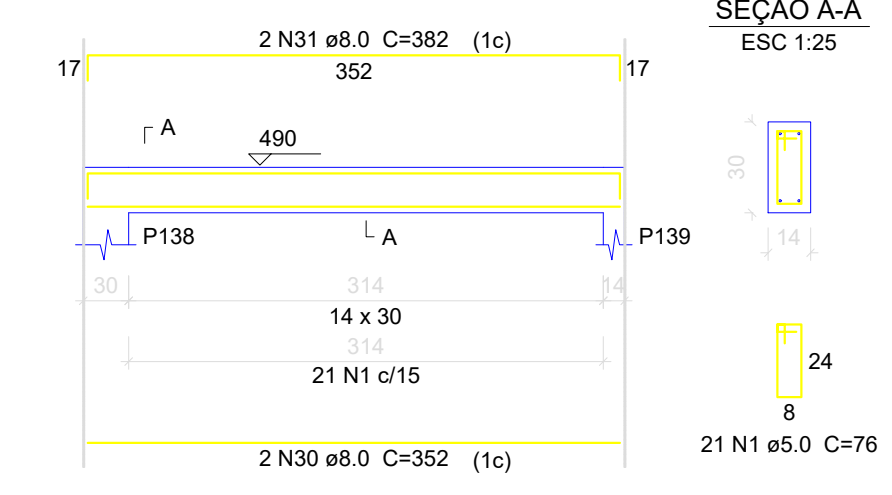
VRP304



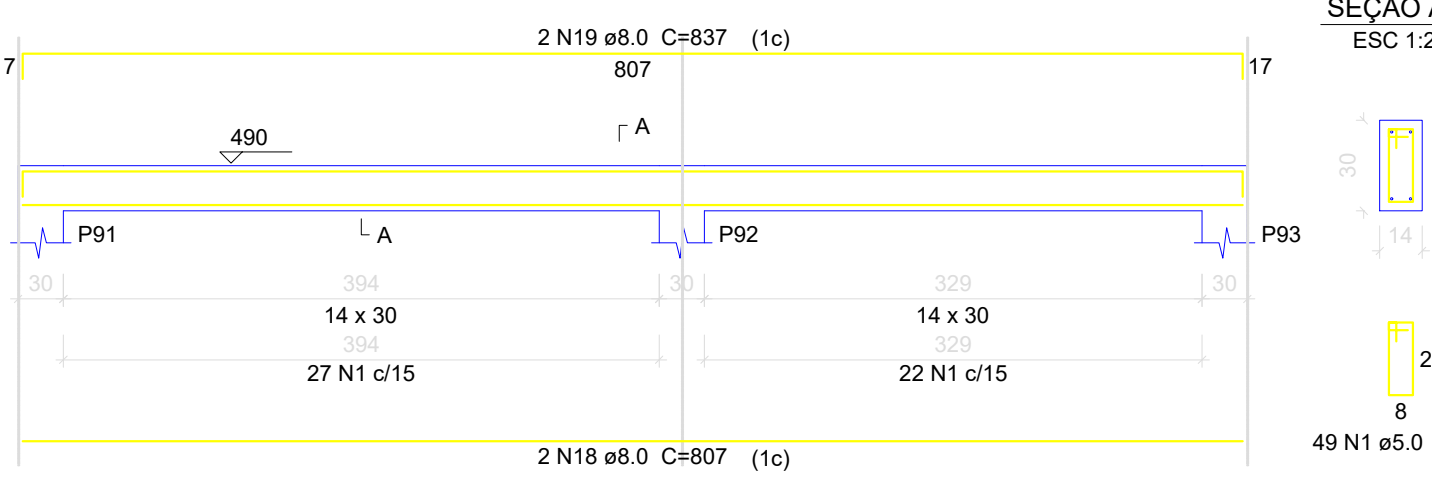
VRP308



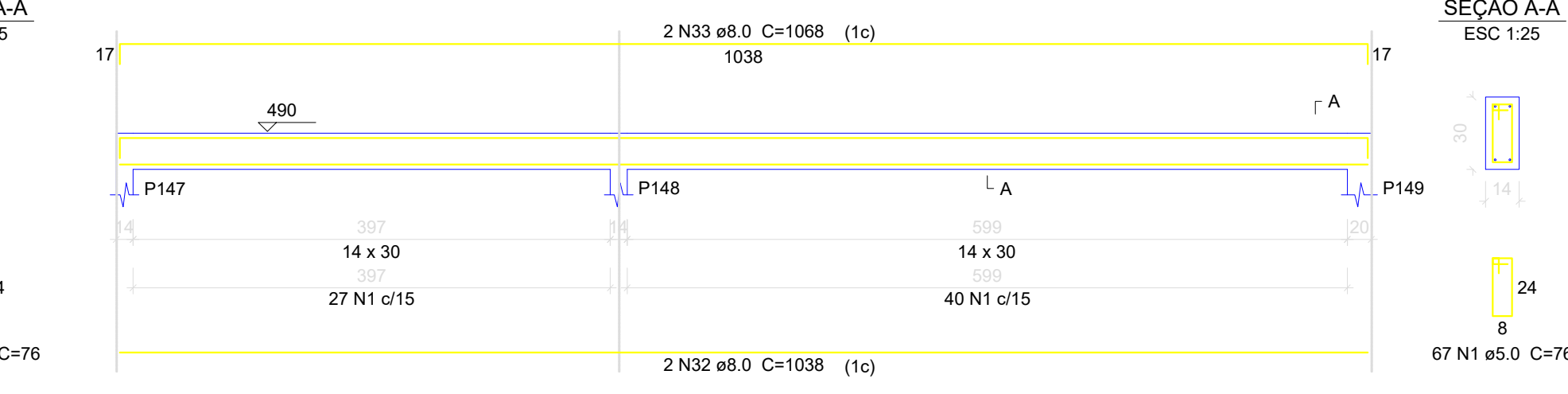
VRP310



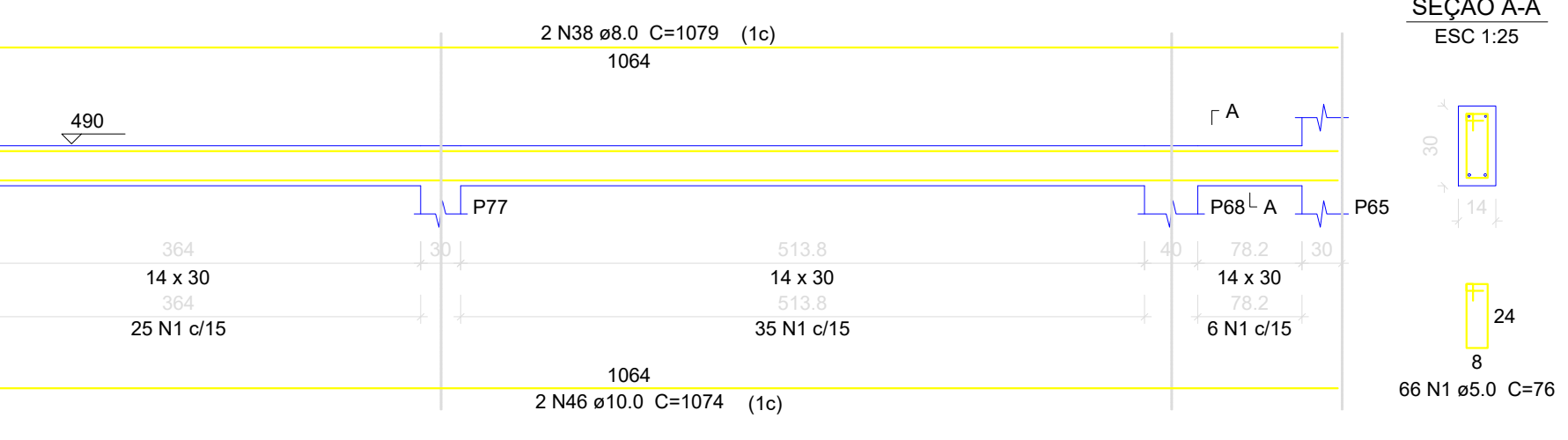
VRP305



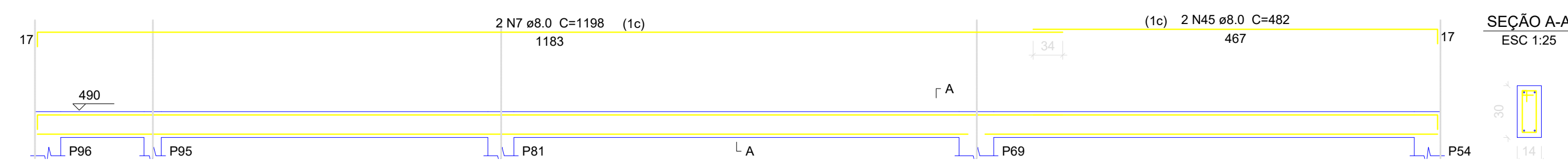
VRP311



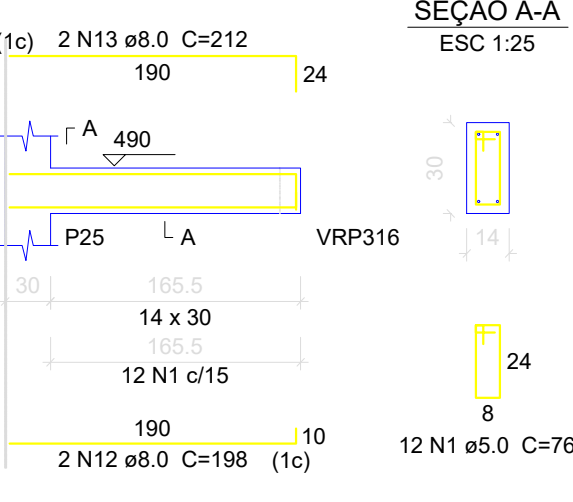
VRP314



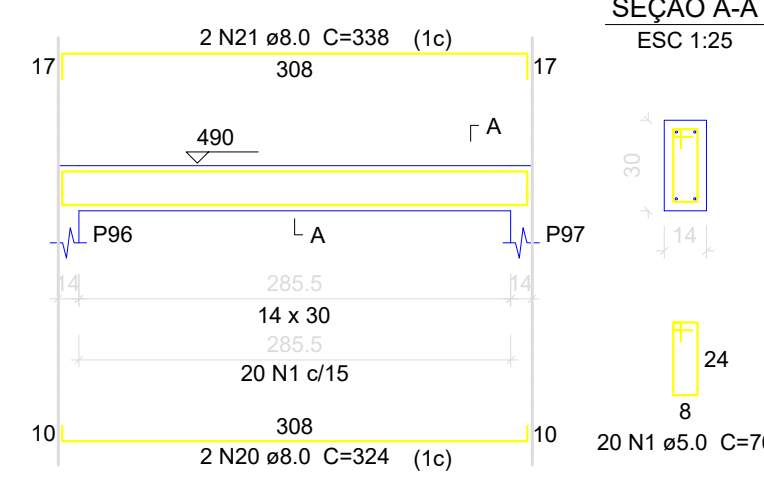
VRP317



VRP302




VRP306



Relação do aço					
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
VRP300	VRP301	VRP302			
VRP303	VRP304	VRP305			
VRP306	VRP307	VRP308			
VRP309	VRP310	VRP311			
VRP312	VRP313	VRP314			
VRP315	VRP316	VRP317			
CA60	1	5.0	995	76	75620
CA50	2	5.0	12	116	1392
	3	6.3	1	67	67
	4	8.0	2	889	1778
	5	8.0	2	883	1766
	6	8.0	2	452	904
	7	8.0	6	1198	7188
	8	8.0	4	1120	4480
	9	8.0	2	884	1768
	10	8.0	2	888	1776
	11	8.0	2	442	884
	12	8.0	2	198	396
	13	8.0	2	212	424
	14	8.0	2	958	1916
	15	8.0	2	987	1974
	16	8.0	2	340	680
	17	8.0	2	354	708
	18	8.0	2	807	1614
	19	8.0	2	837	1674
	20	8.0	2	324	648
	21	8.0	2	338	676
	22	8.0	2	974	1948
	23	8.0	2	1004	2008
	24	8.0	2	957	1914
	25	8.0	2	322	644
	26	8.0	2	1183	2366
	27	8.0	2	169	338
	28	8.0	2	994	1988
	29	8.0	2	1024	2048
	30	8.0	2	352	704
	31	8.0	2	382	764
	32	8.0	2	1038	2076
	33	8.0	2	1068	2136
	34	8.0	2	319	638
	35	8.0	2	361	722
	36	8.0	2	867	1734
	37	8.0	2	897	1794
	38	8.0	2	1079	2158
	39	8.0	2	141	282
	40	8.0	2	171	342
	41	8.0	2	592	1184
	42	8.0	2	622	1244
	43	8.0	2	1074	2148
	44	8.0	2	522	1044
	45	8.0	2	482	964
	46	10.0	2	1074	2148

Resumo do aço			
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	0.7	0.2
	8.0	644.5	279.7
	10.0	21.5	14.6
CA60	5.0	770.2	130.6
PESO TOTAL			
CA50		294.5	
CA60		130.6	
Vol. de concreto total (C-30) = 6.99 m³			
Área de forma total = 122.84 m²			



ARQUITETURA E ENGENHARIA
> PROJETOS INDUSTRIAIS / COMERCIAIS / RESIDENCIAIS E PÚBLICAS
> ASSESSORIA / CONSULTORIA
> GESTÃO DE OBRAS
> PERÍCIAS
> EXECUÇÃO DE OBRAS

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37

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Indiamara de Oliveira Ribeiro
Eng. Civil - CREA 13.4548-3

CLIENTE:
Prefeitura Municipal de Rio Rufino

OBRA:
PROJETO ESTRUTURAL
ESCOLA MUNICIPAL DE RIO RUFINO

PLANTA DAS VIGAS DE RESPALDO DO PLATIBANDA

DESENHO:

ESCALA:

DATA:
OUT/2022