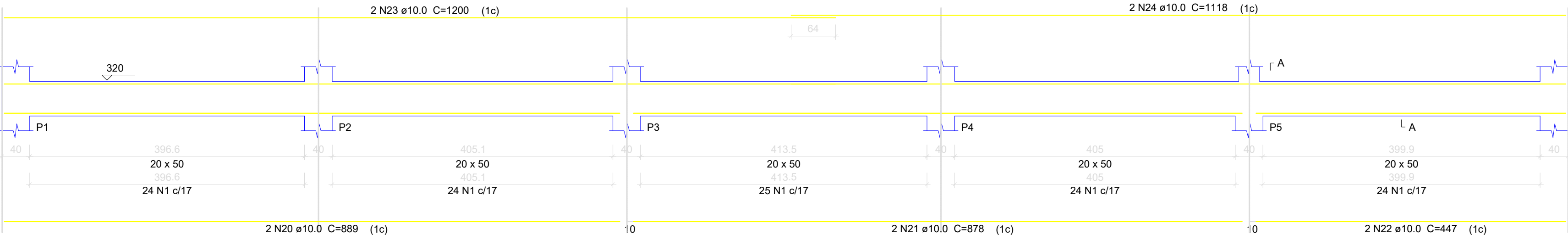
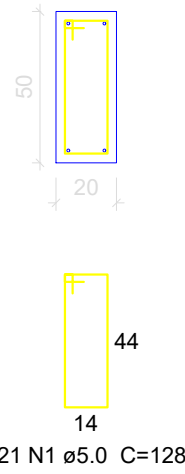


VRC200

ESC 1:50

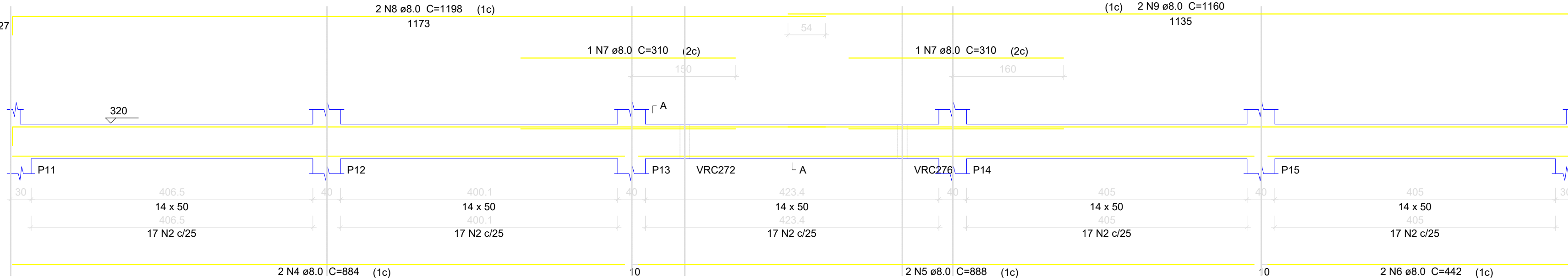


SEÇÃO A-A  
ESC 1:25

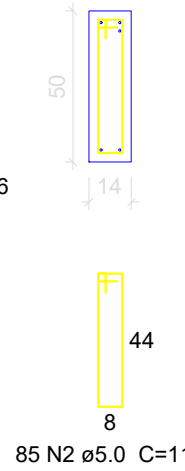


VRC201

ESC 1:50



SEÇÃO A-A  
ESC 1:25

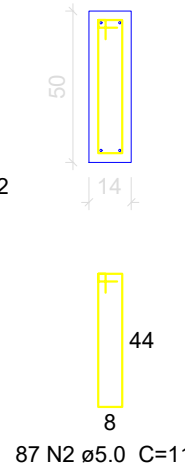


VRC202

ESC 1:50

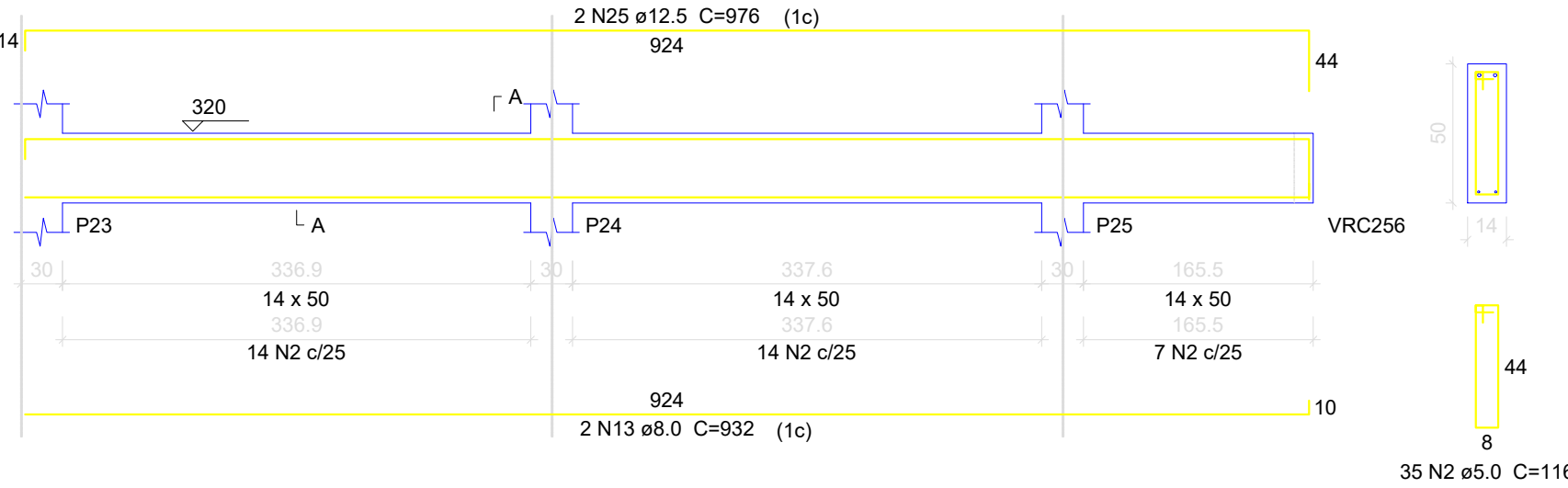


SEÇÃO A-A  
ESC 1:25

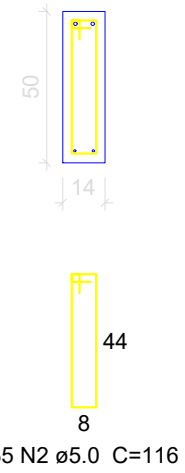


VRC203

ESC 1:50

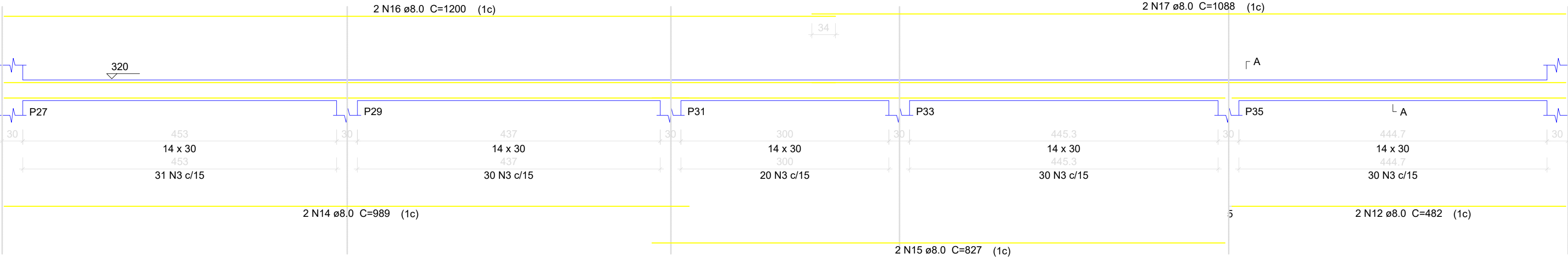


SEÇÃO A-A  
ESC 1:25

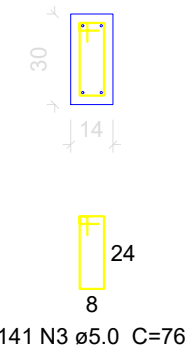


VRC204

ESC 1:50

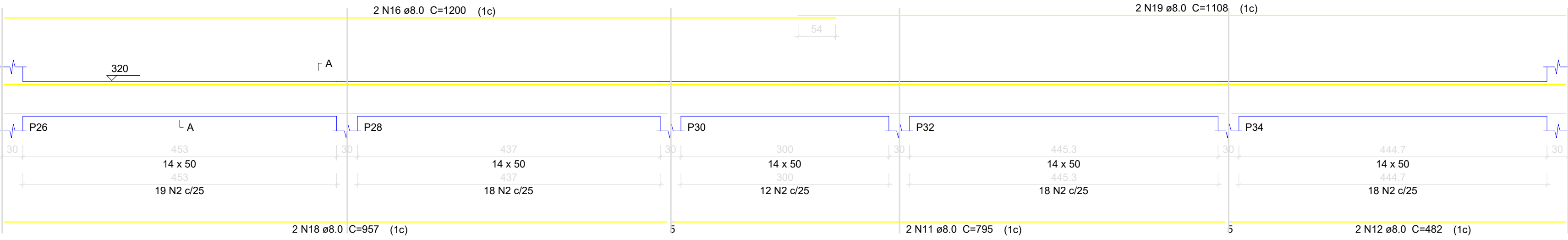


SEÇÃO A-A  
ESC 1:25

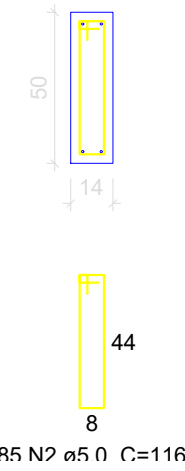


VRC205

ESC 1:50



SEÇÃO A-A  
ESC 1:25



Relação do aço

VRC200 VRC203	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	1	5.0	121	128	15488
		2	5.0	292	116	33872
		3	5.0	141	76	10716
	CA50	4	8.0	2	884	1768
		5	8.0	2	888	1776
		6	8.0	2	442	884
		7	8.0	2	310	620
		8	8.0	4	1198	4792
		9	8.0	4	1160	4640
		10	8.0	2	973	1946
		11	8.0	4	795	3180
		12	8.0	6	482	2892
		13	8.0	2	932	1864
		14	8.0	2	989	1978
		15	8.0	2	827	1654
		16	8.0	4	1200	4800
		17	8.0	2	1088	2176
		18	8.0	2	957	1914
		19	8.0	2	1108	2216
		20	10.0	2	889	1778
		21	10.0	2	878	1756
		22	10.0	2	447	894
		23	10.0	2	1200	2400
		24	10.0	2	1118	2236
		25	12.5	2	976	1952

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	391	169.7
	10.0	90.7	61.5
	12.5	19.6	20.7
CA60	5.0	600.8	101.9
PESO TOTAL			
CA50		251.9	
CA60		101.9	

Vol. de concreto total (C-30) = 8.61 m³  
Área de forma total = 131.74 m²



ARQUITETURA E ENGENHARIA

> PROJETOS INDUSTRIAIS / COMERCIAIS / RESIDENCIAIS E PÚBLICAS  
> ASSESSORIA / CONSULTORIA  
> GESTÃO DE OBRAS  
> PERÍCIAS  
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RESP. TÉC.:

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  
DA COBERTURA

DESENHO:

ESCALA:

DATA:

OUT/2022