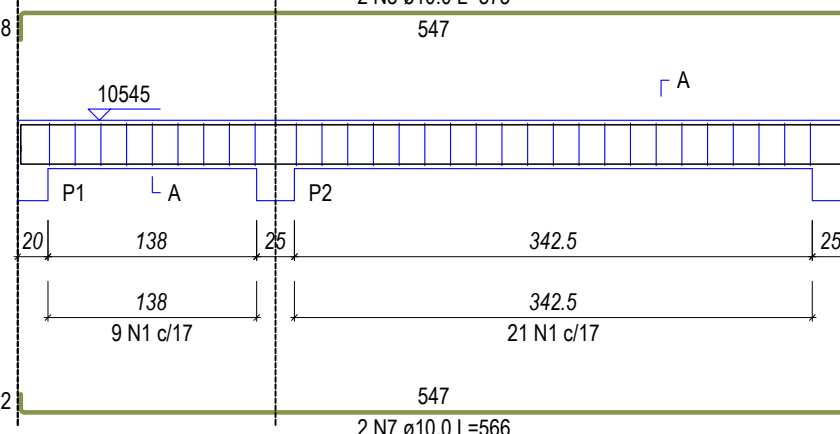


RESERVATÓRIO - DETALHAMENTO DAS VIGAS

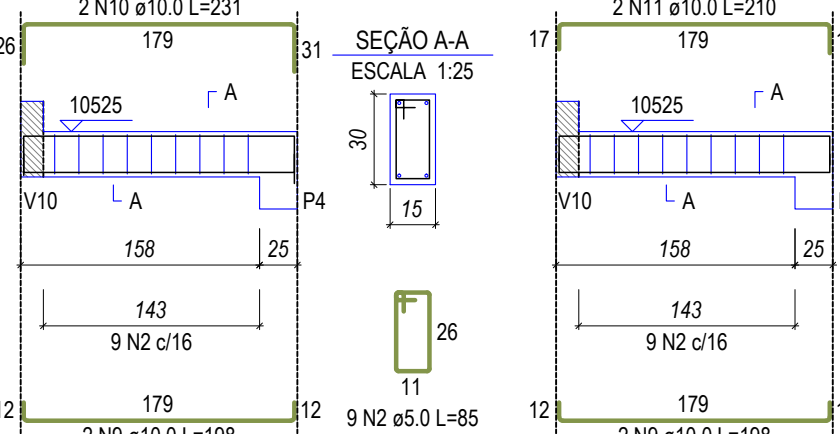
V1 (15 x 32)

ESCALA 1:50



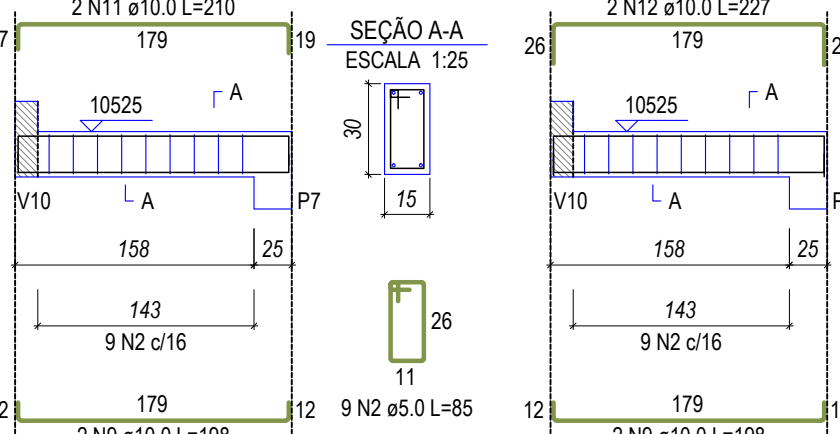
V2 (15 x 30)

ESCALA 1:50



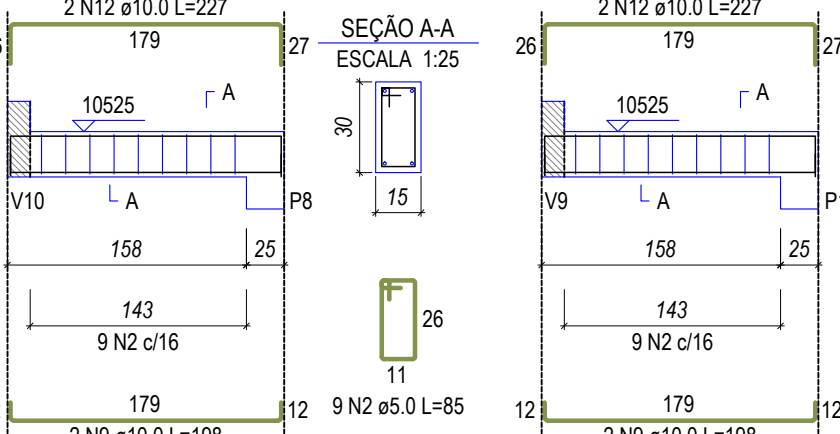
V3 (15 x 30)

ESCALA 1:50



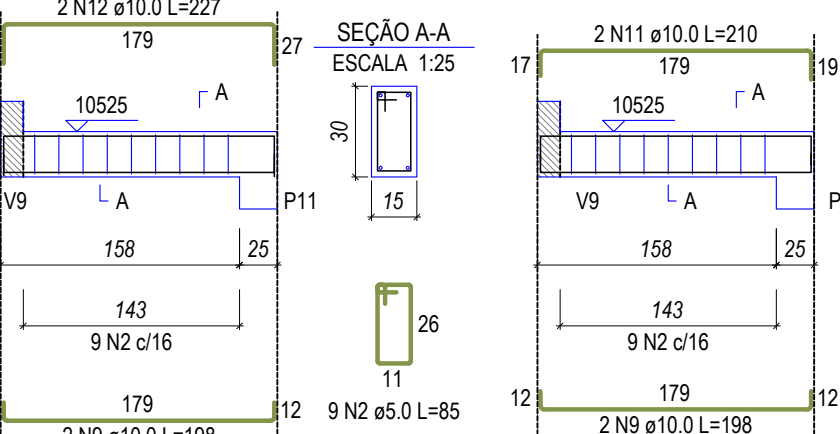
V4 (15 x 30)

ESCALA 1:50



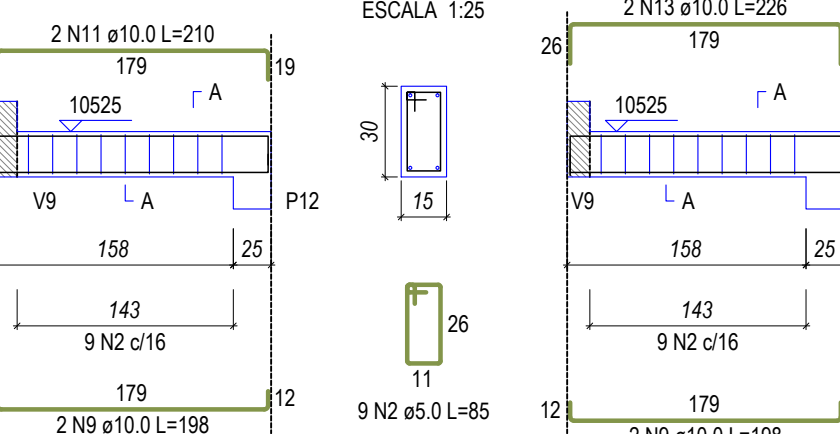
V5 (15 x 30)

ESCALA 1:50



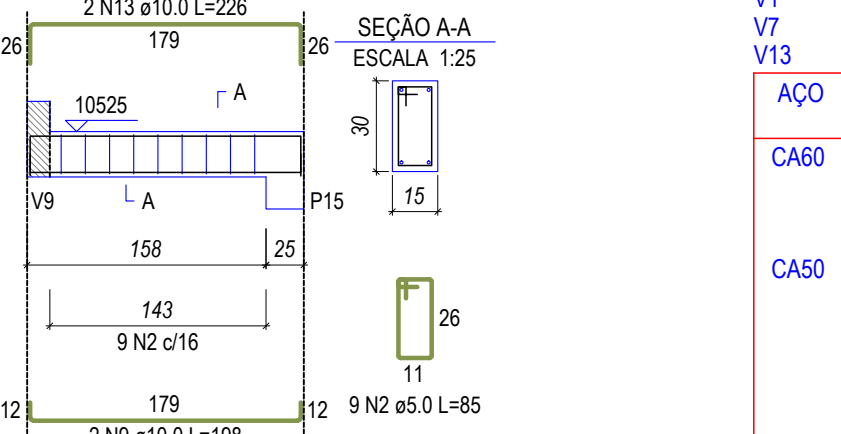
V6 (15 x 30)

ESCALA 1:50



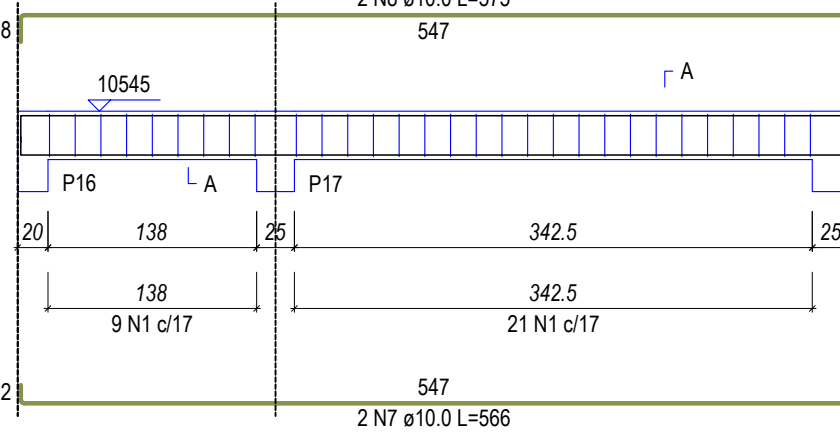
V7 (15 x 30)

ESCALA 1:50



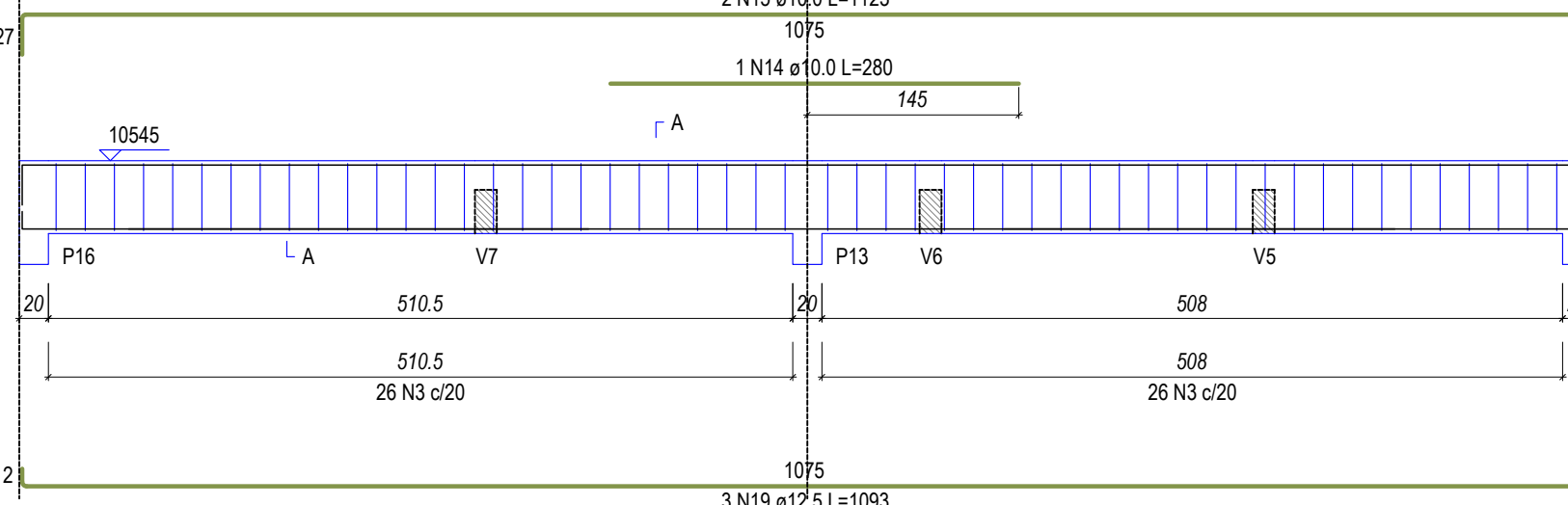
V8 (15 x 32)

ESCALA 1:50



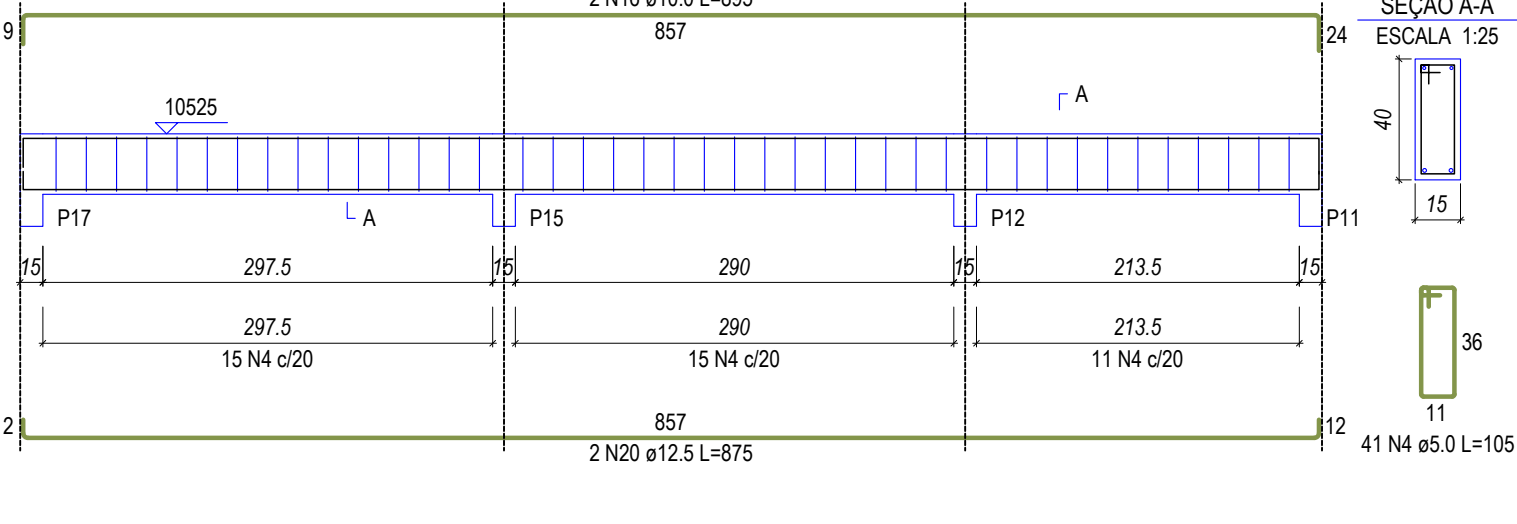
V9 (15 x 50)

ESCALA 1:50



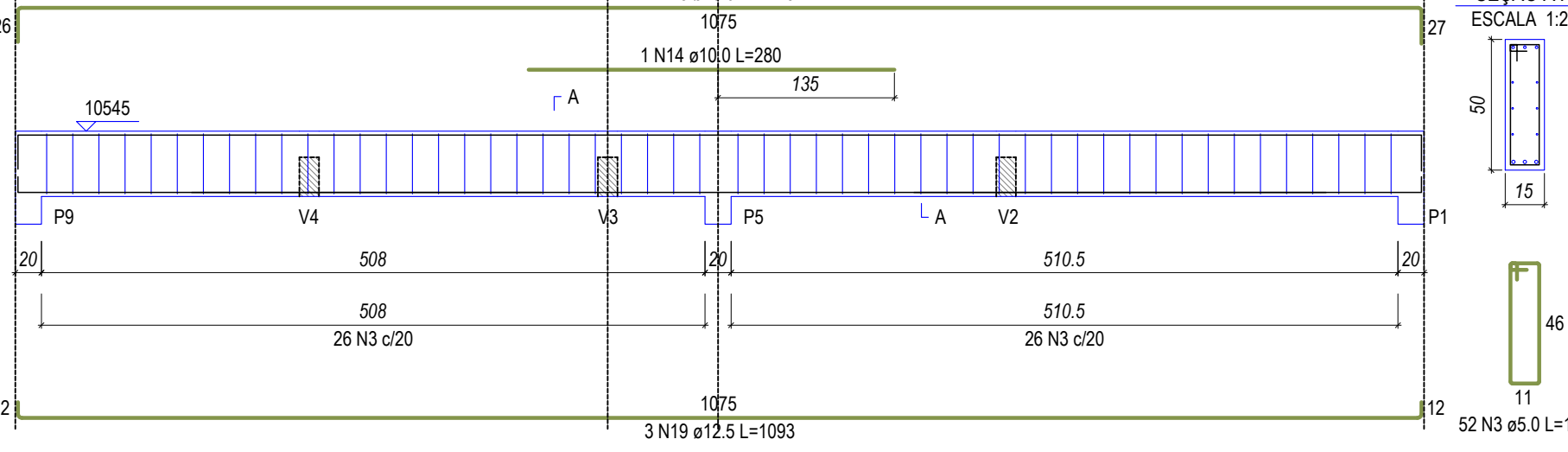
V11 (15 x 40)

ESCALA 1:50



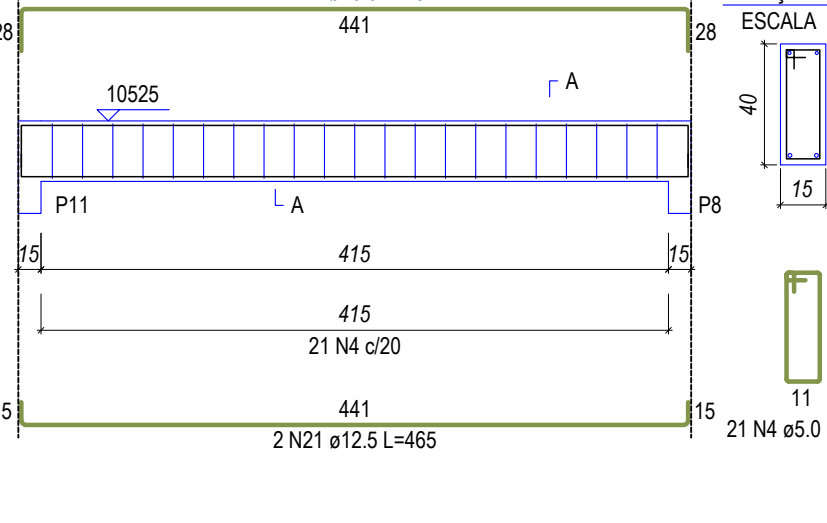
V10 (15 x 50)

ESCALA 1:50



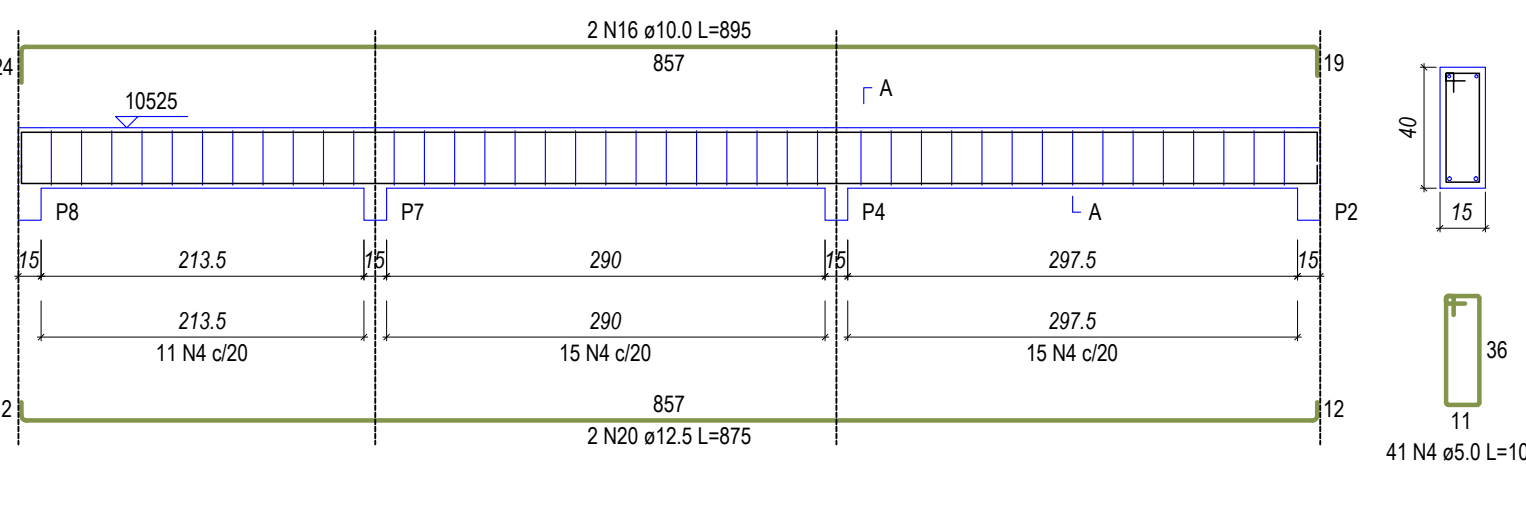
V12 (15 x 40)

ESCALA 1:50



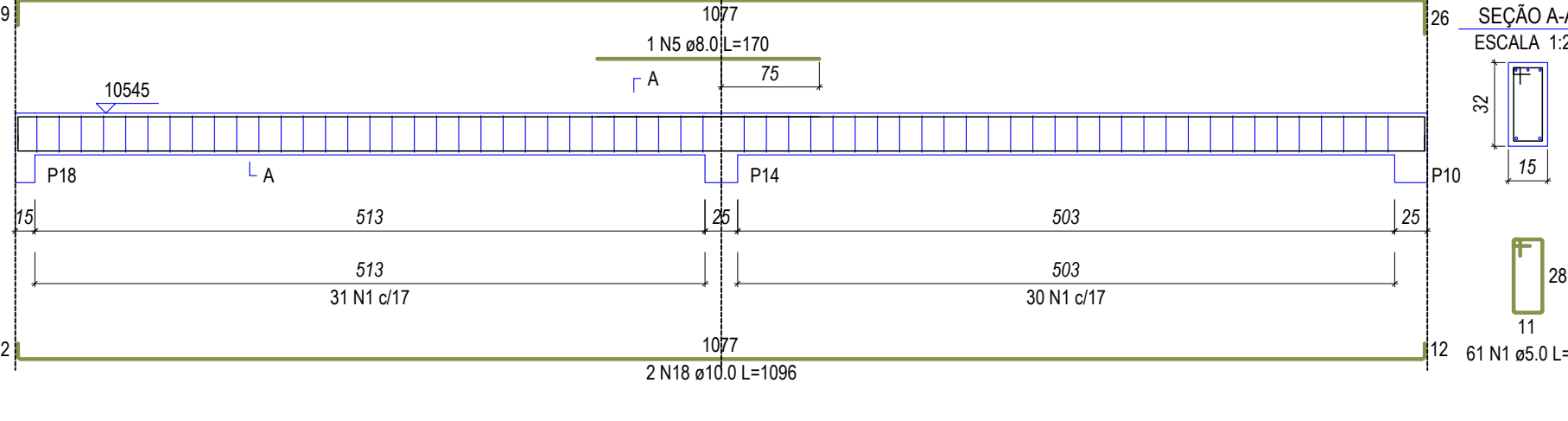
V13 (15 x 40)

ESCALA 1:50



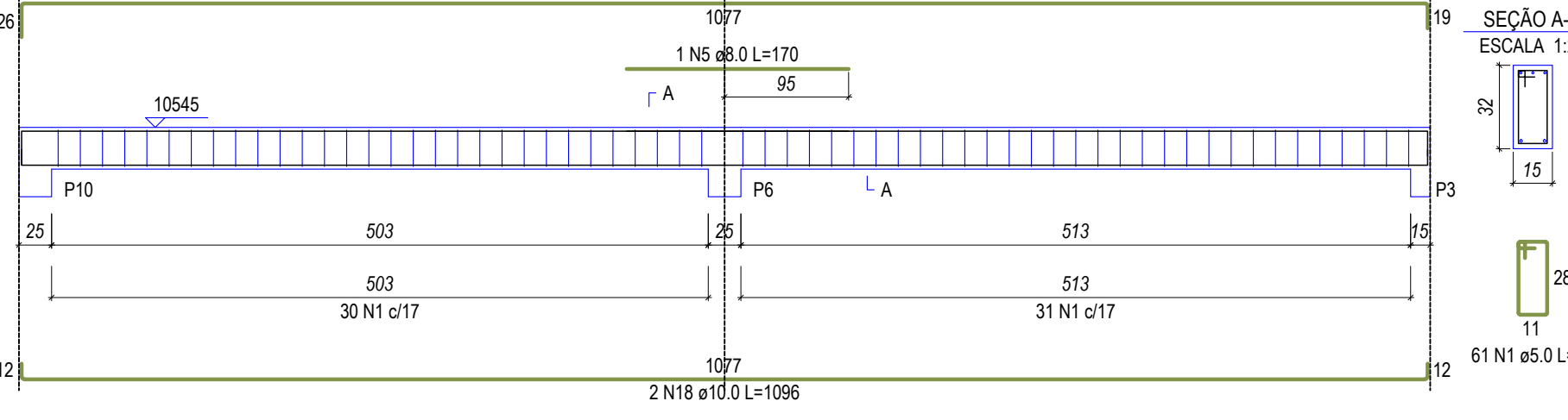
V14 (15 x 32)

ESCALA 1:50



V15 (15 x 32)

ESCALA 1:50



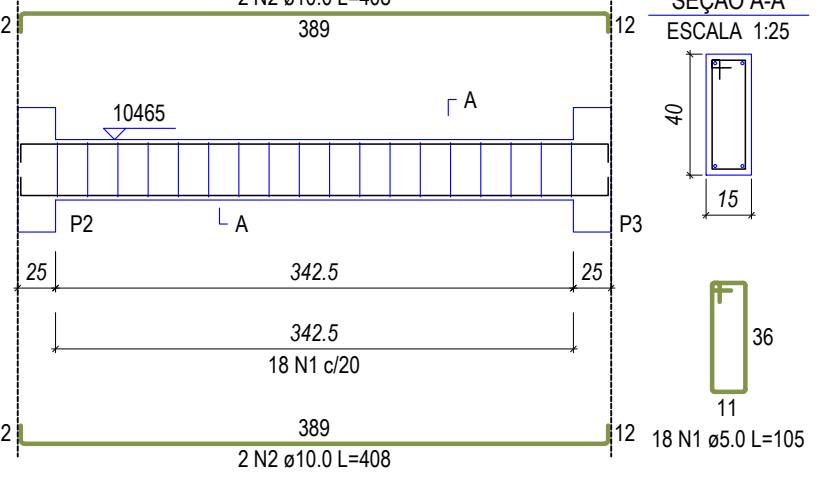
RELAÇÃO DO AÇO - RESERVATÓRIO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	182	89	16198
	2	5.0	54	85	4590
	3	5.0	104	125	13000
	4	5.0	103	105	10815
CA50	5	8.0	2	170	340
	6	8.0	4	1118	4472
	7	10.0	4	566	2264
	8	10.0	4	575	2300
	9	10.0	12	198	2376
	10	10.0	2	231	462
	11	10.0	4	210	840
	12	10.0	4	227	908
	13	10.0	2	226	452
	14	10.0	2	280	560
	15	10.0	4	1123	4492
CA60	16	10.0	4	895	3580
	17	10.0	2	492	984
	18	10.0	4	1096	4384
	19	12.5	6	1093	6558
	20	12.5	4	875	3500
	21	12.5	2	465	930

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	48.1	5	19.0
CA50	10.0	236.0	20	145.6
CA60	5.0	109.9	10	105.8
CA60	5.0	446.0	38	58.7
PESO TOTAL (kg)				
CA50	270.4			
CA60	68.7			
Volume de concreto (C-30) = 4.98 m³				
Área de forma = 79.40 m²				

COBERTURA - DETALHAMENTO DAS VIGAS

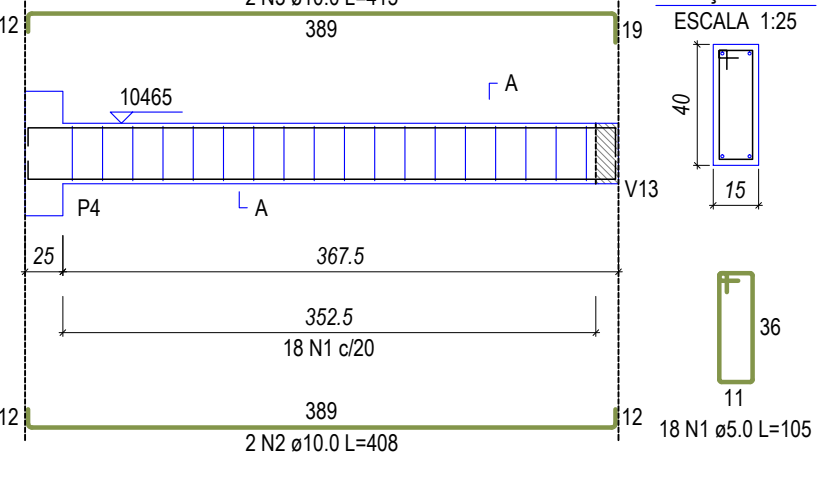
V1 (15 x 40)

ESCALA 1:50



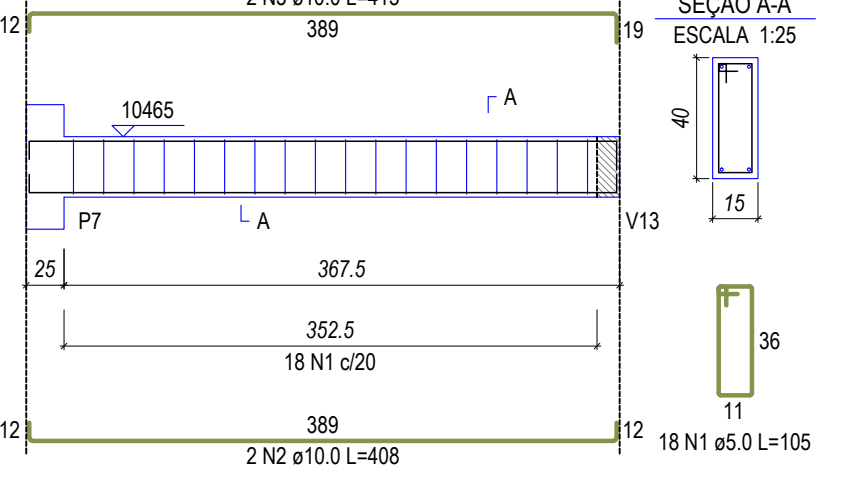
V2 (15 x 40)

ESCALA 1:50



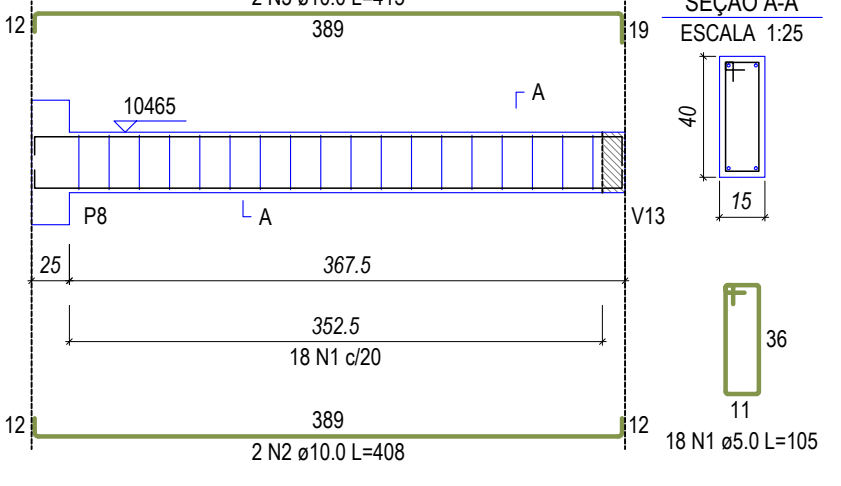
V3 (15 x 40)

ESCALA 1:50



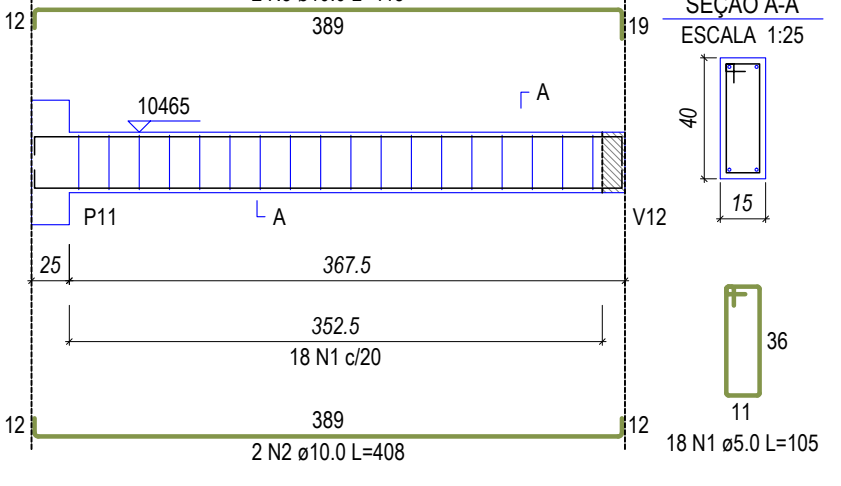
V4 (15 x 40)

ESCALA 1:50



V5 (15 x 40)

ESCALA 1:50

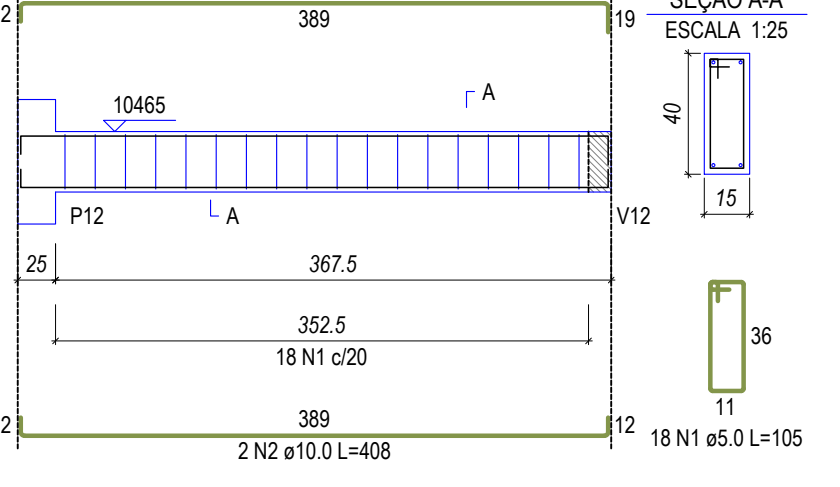


RELAÇÃO DO AÇO - COBERTURA					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	391	105	41055
CA50	2	10.0	20	408	8160
CA50	3	10.0	12	415	4980
CA50	4	10.0	4	900	3600
CA50	5	10.0	4	876	3504
CA50	6	10.0	2	460	920
CA50	7	10.0	2	502	1004
CA50	8	12.5	6	1095	6570
CA50	9	12.5	4	1131	4524

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	221.7	19	136.8
CA50	12.5	110.9	10	106.8
CA60	5.0	410.6	35	63.2
PESO TOTAL (kg)				
CA50	243.6			
CA60	63.2			
Volume de concreto (C-30) = 4.48 m³				
Área de forma = 70.96 m²				

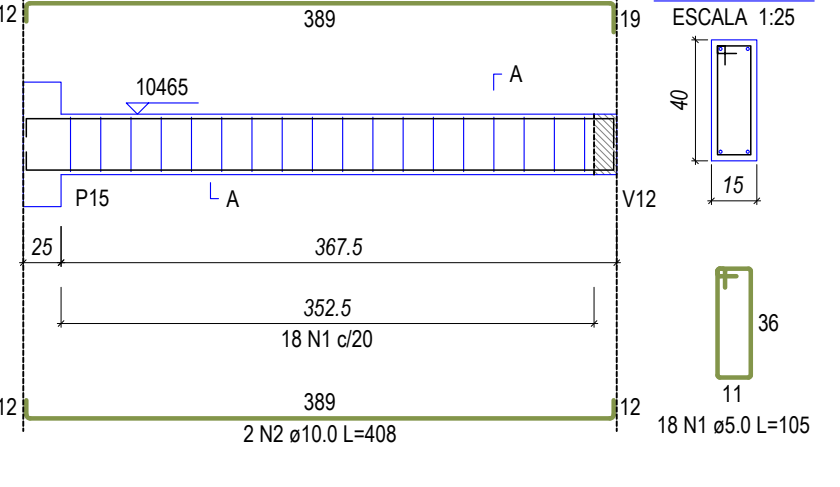
V6 (15 x 40)

ESCALA 1:50



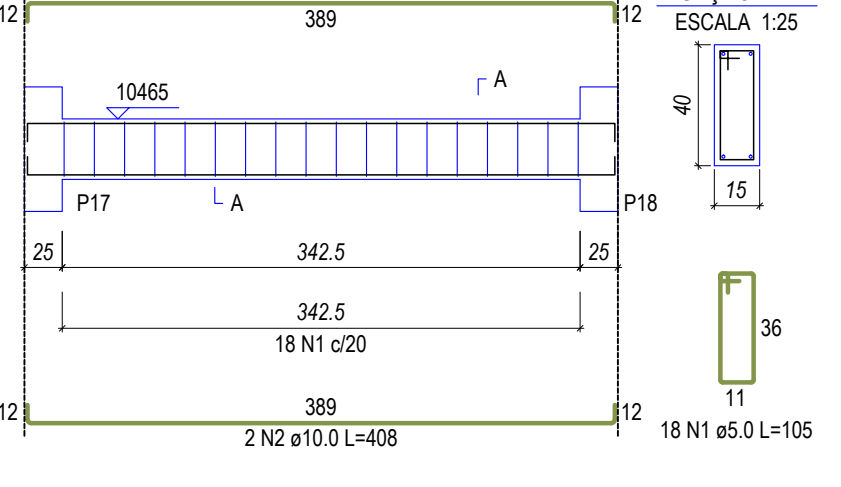
V7 (15 x 40)

ESCALA 1:50



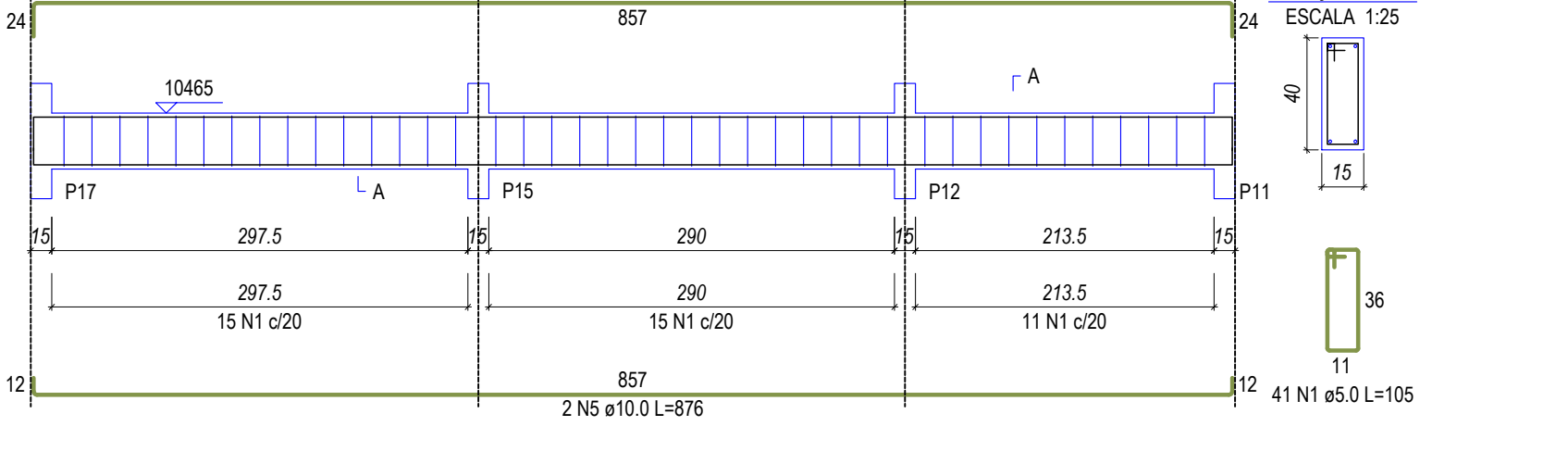
V8 (15 x 40)

ESCALA 1:50



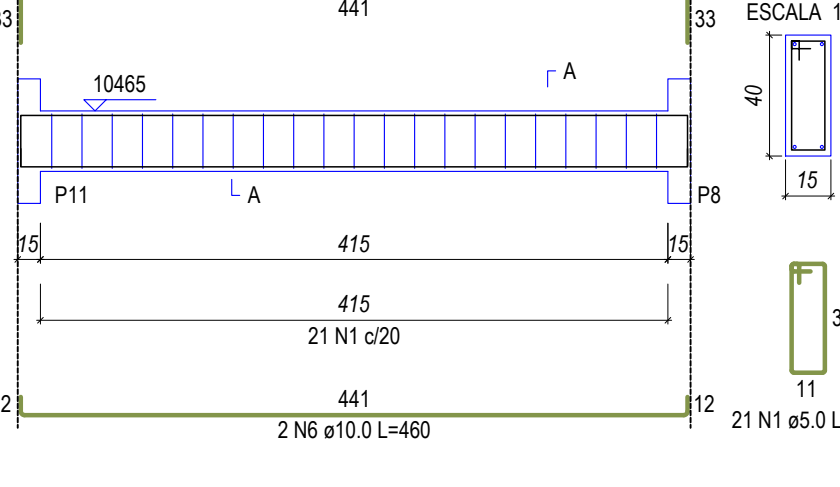
V9 (15 x 40)

ESCALA 1:50



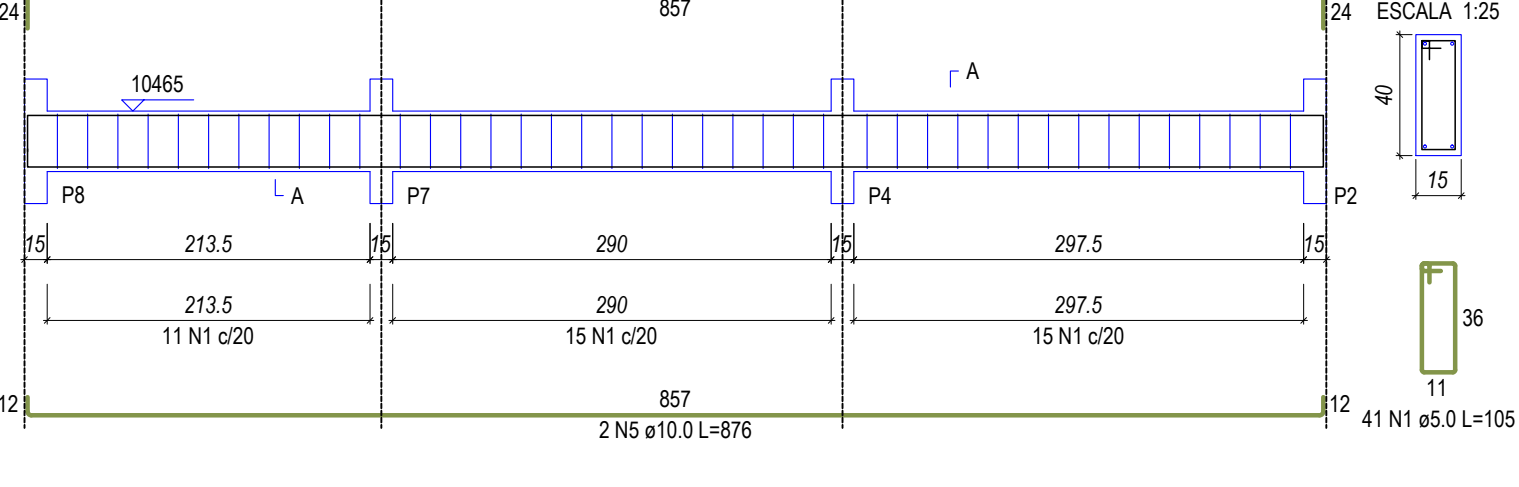
V10 (15 x 40)

ESCALA 1:50



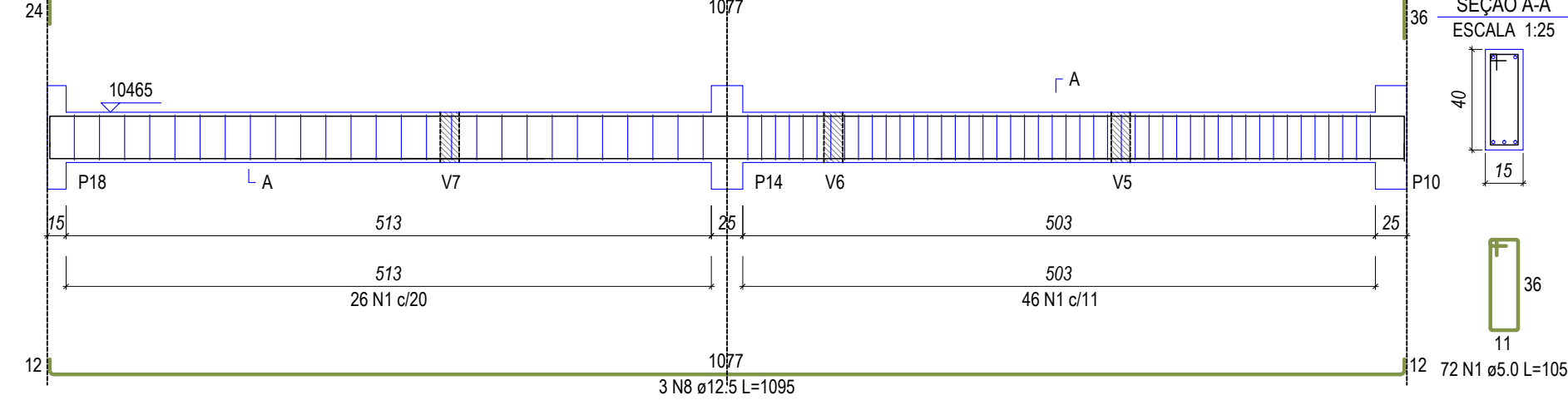
V11 (15 x 40)

ESCALA 1:50



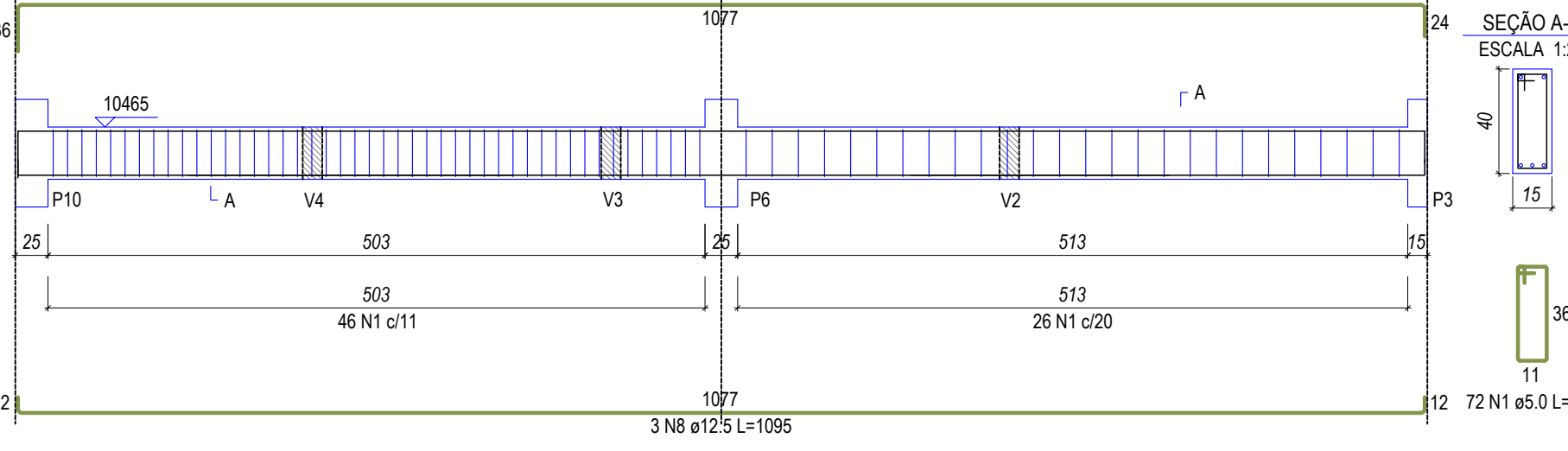
V12 (15 x 40)

ESCALA 1:50



V13 (15 x 40)

ESCALA 1:50



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EMEF DOM LUIZ VICTOR SARTORI Rua Tamanday, Nº 325 - Bairro Nonoi - Santa Maria - RS			
PROJETO ESTRUTURAL - VESTIÁRIO DETALHAMENTO DAS VIGAS DA COBERTURA E RESERVATÓRIO			
PRÓPRIETÁRIA / SECRETARIA GESTORA		PROJETISTA / RESPONSÁVEL TÉCNICO	
PREFEITURA MUNICIPAL DE SANTA MARIA		Eng. Civil Regis C. Moraes CREA/RS 93.278	
ÁREA	DESENHO ORIGINAL	A.R.T.	PRONCHIA
ESCALA	ALUSTES	DATA	
UNIDADES	Regis Moraes Engenheiro Civil	DEZEMBRO/2021	
ARQUIVO			