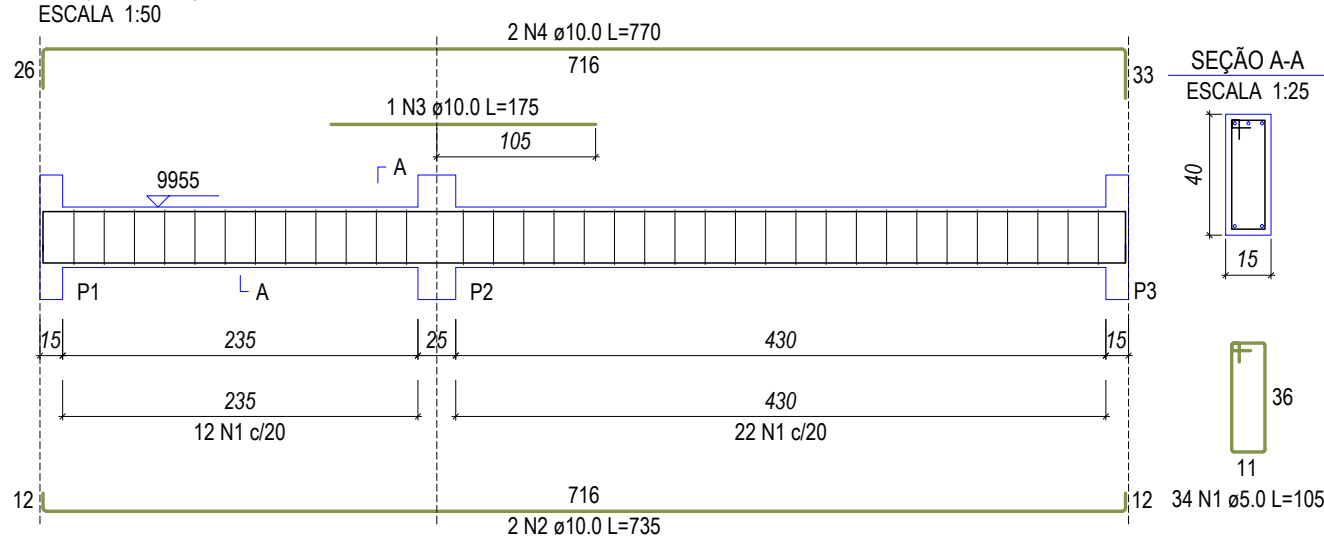


CONTENÇÃO - DETALHAMENTO DA VIGA

V1 (15 x 40)

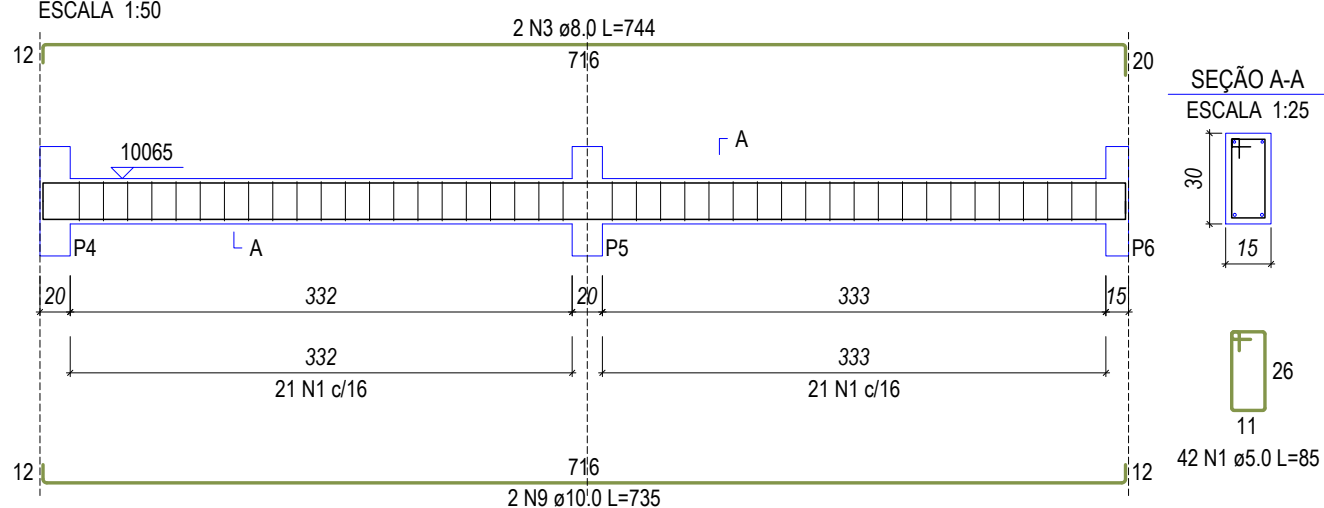


RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	34	105	3570
CA50	2	10.0	2	735	1470
	3	10.0	1	175	175
	4	10.0	2	770	1540

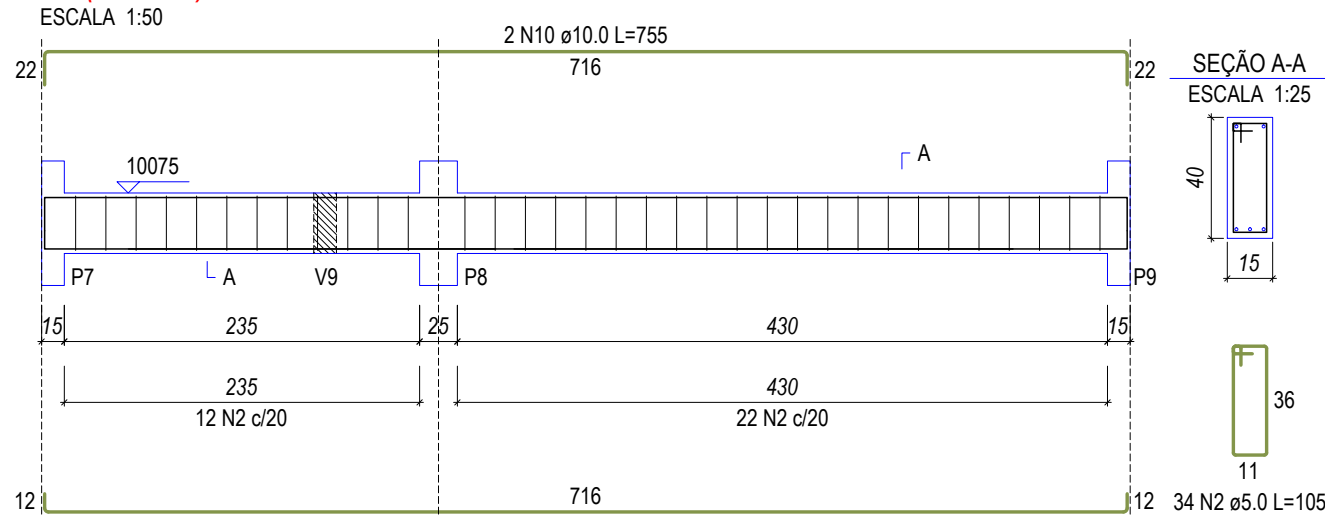
RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)
CA50	10.0	31.9	3
CA60	5.0	35.7	3
PESO TOTAL (kg)		Volume de concreto (C-25) = 0.40 m³	
CA50	19.6	Área de forma = 6.84 m²	
CA60	5.5		

TÉRREO - DETALHAMENTO DAS VIGAS

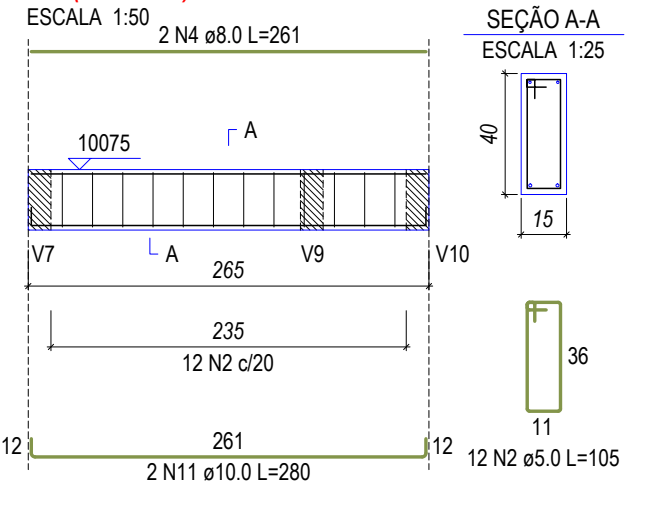
V1 (15 x 30)



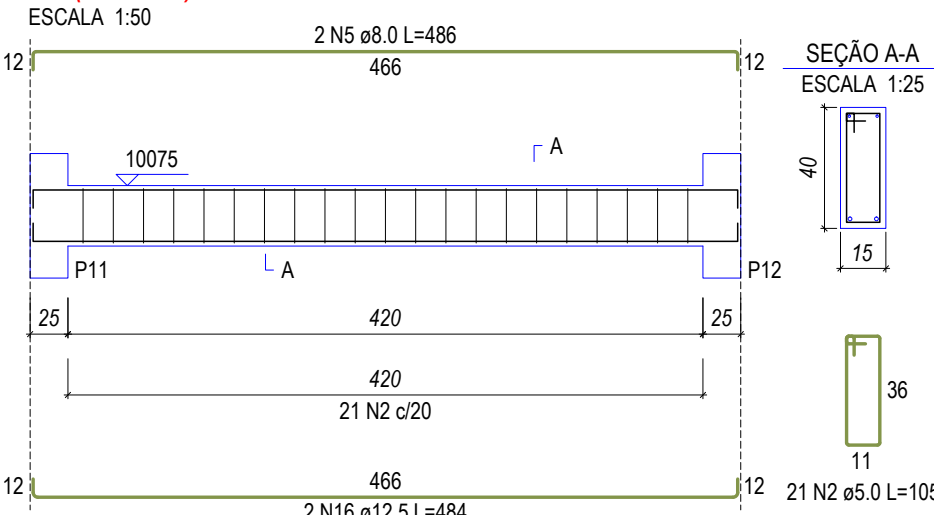
V2 (15 x 40)



V3 (15 x 40)



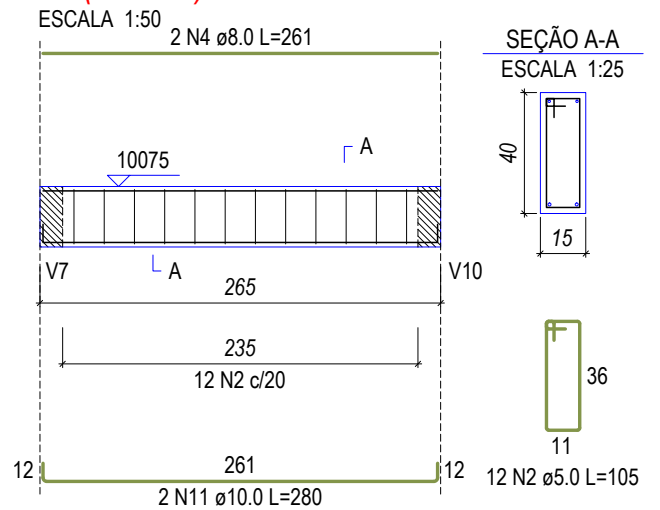
V4 (15 x 40)



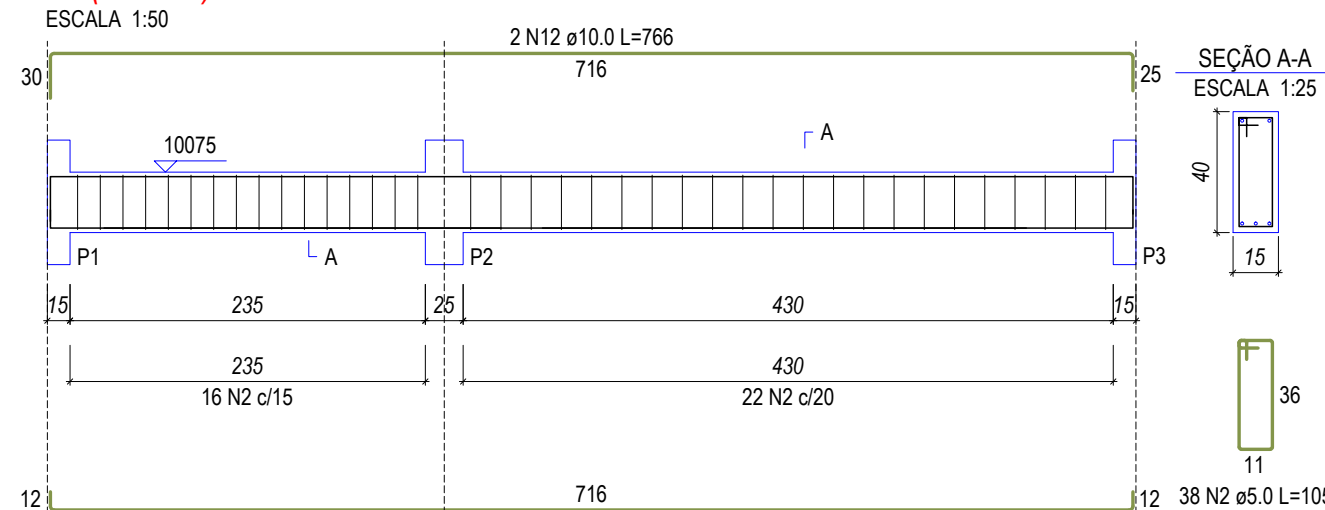
RELAÇÃO DO AÇO					
V1 V7	V2 V8	V3 V9	V4 V10	V5 V11	V6 V12
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	63	85	5355
	2	5.0	203	105	21315
CA50	3	8.0	2	744	1488
	4	8.0	4	261	1044
	5	8.0	2	486	972
	6	8.0	2	223	446
	7	8.0	2	181	362
	8	8.0	2	203	406
	9	10.0	8	735	5880
	10	10.0	2	755	1510
	11	10.0	4	280	1120
	12	10.0	2	766	1532
CA50	13	10.0	10	625	6250
	14	10.0	4	222	888
	15	10.0	2	200	400
	16	12.5	2	484	968
	17	12.5	3	460	1380
	18	12.5	2	320	640
	19	12.5	3	506	1518

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)
CA50	10.0	175.9	15
CA60	12.5	45.1	4
	5.0	286.7	23
PESO TOTAL (kg)		Volume de concreto (C-25) = 2.78 m³	
CA50	170.5	Área de forma = 49.24 m²	
CA60	41.1		

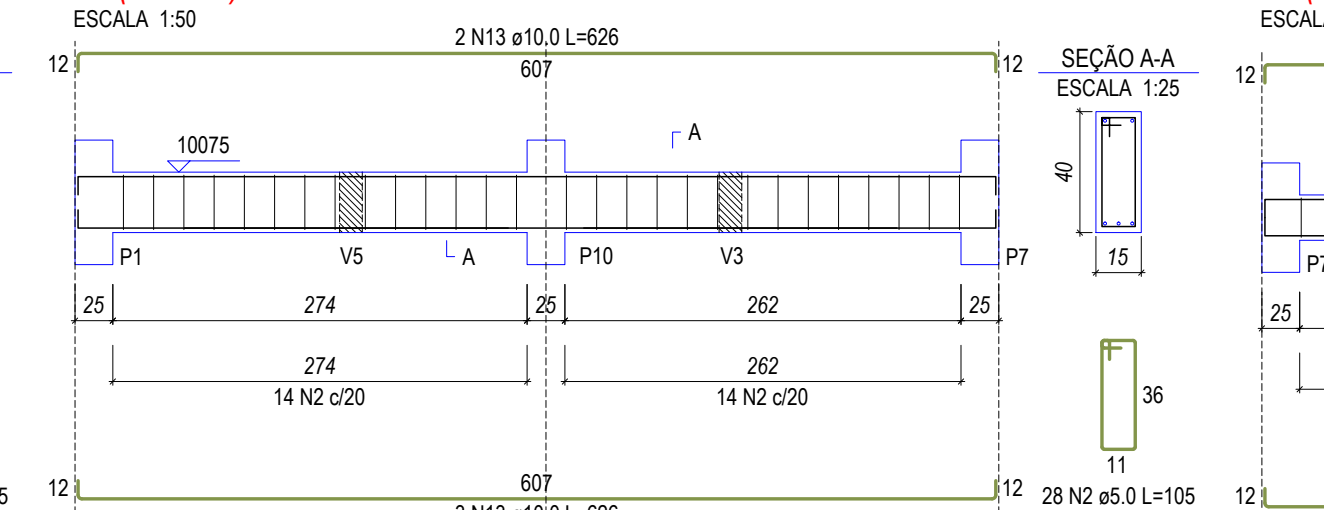
V5 (15 x 40)



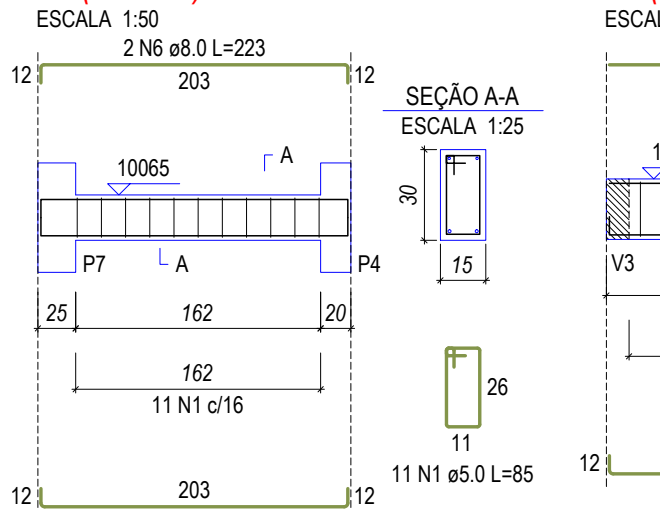
V6 (15 x 40)



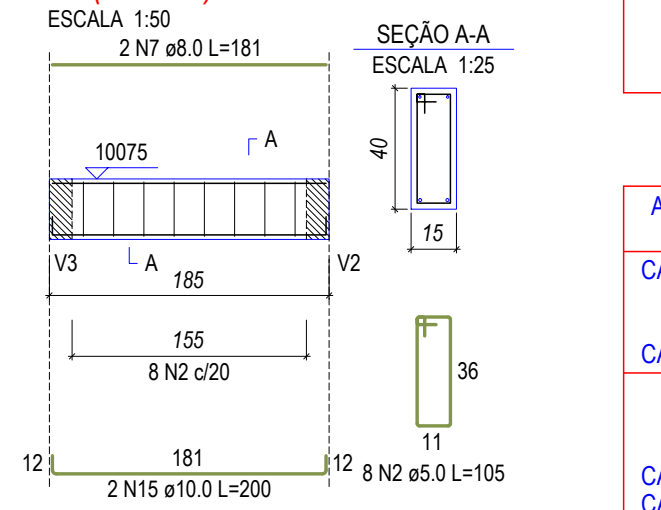
V7 (15 x 40)



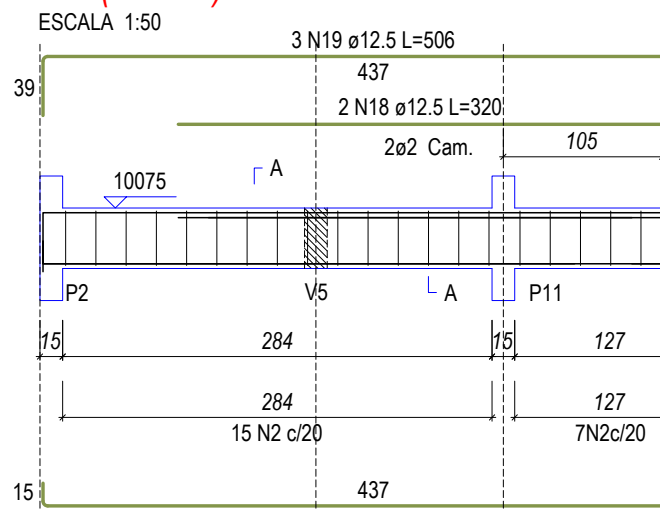
V8 (15 x 30)



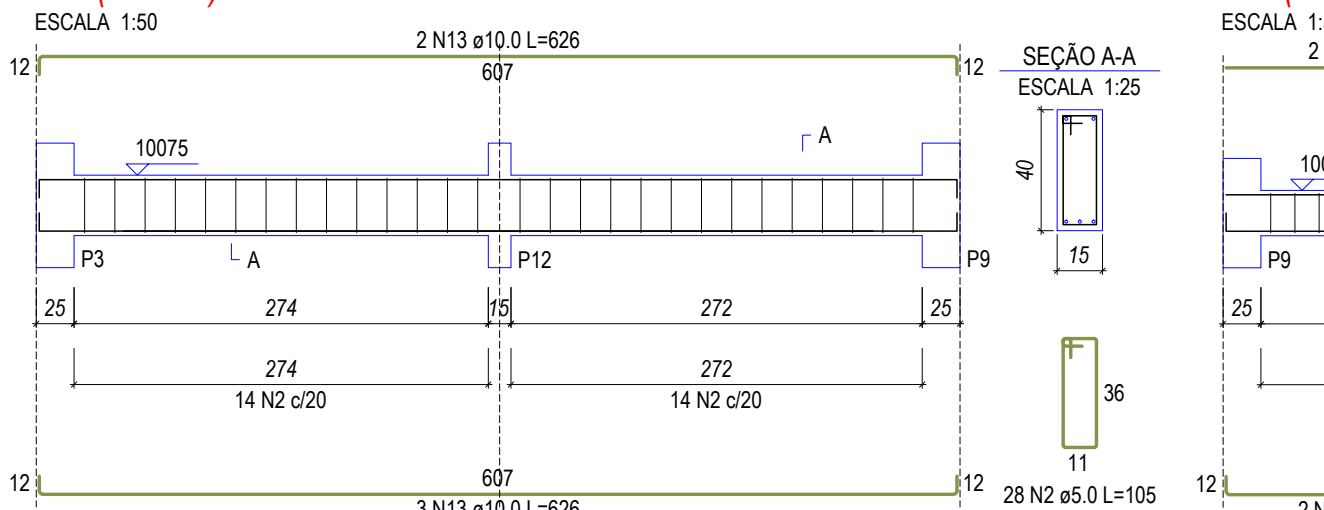
V9 (15 x 40)



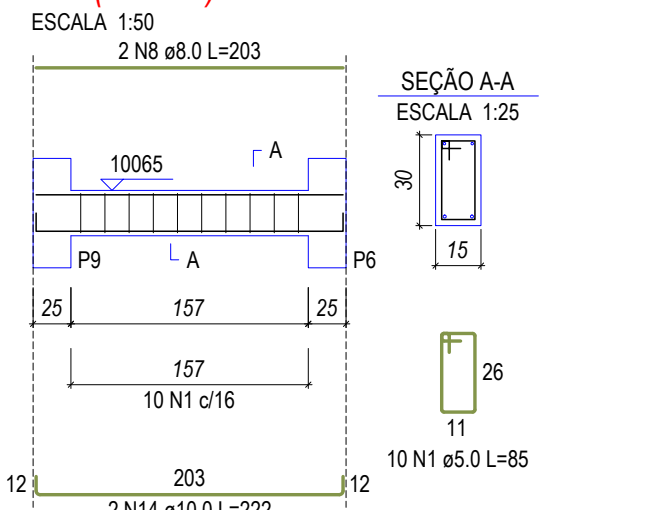
V10 (15 x 40)



V11 (15 x 40)

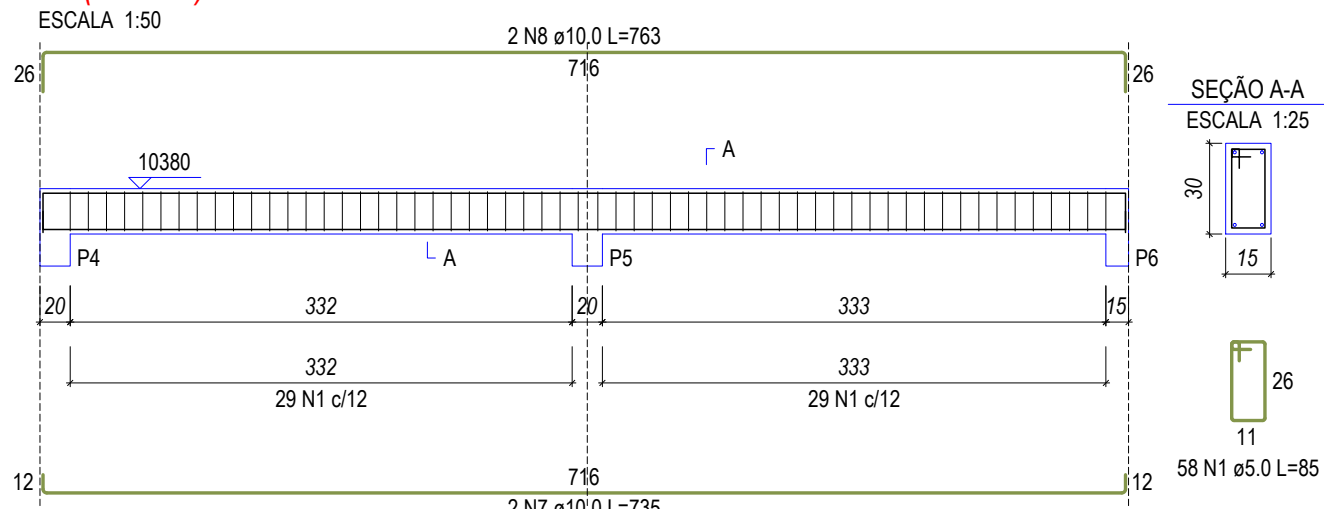


V12 (15 x 30)

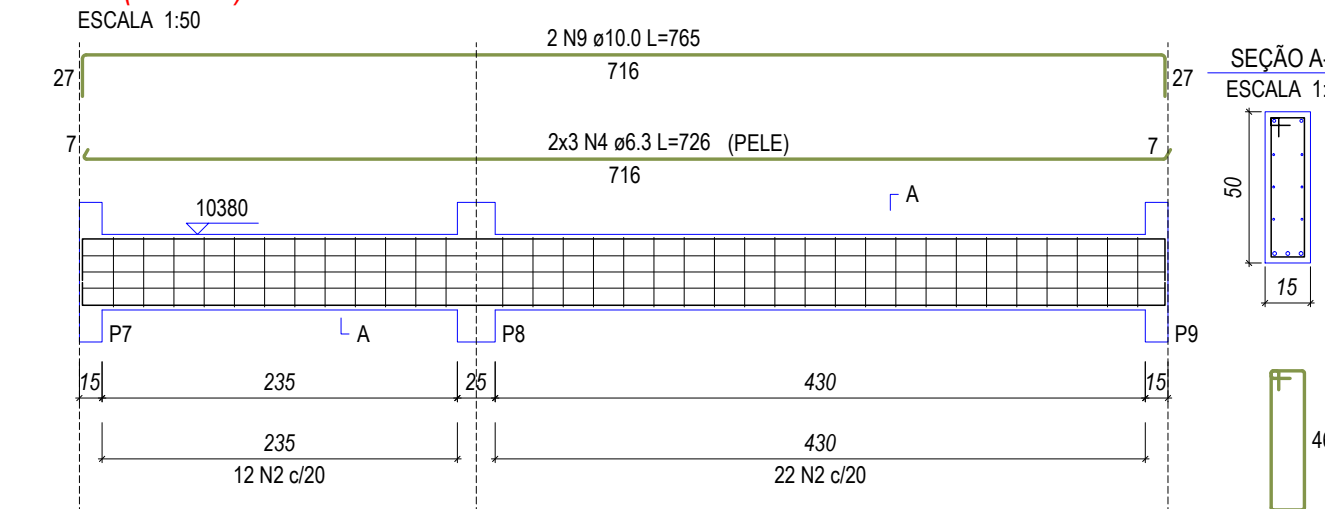


COBERTURA - DETALHAMENTO DAS VIGAS

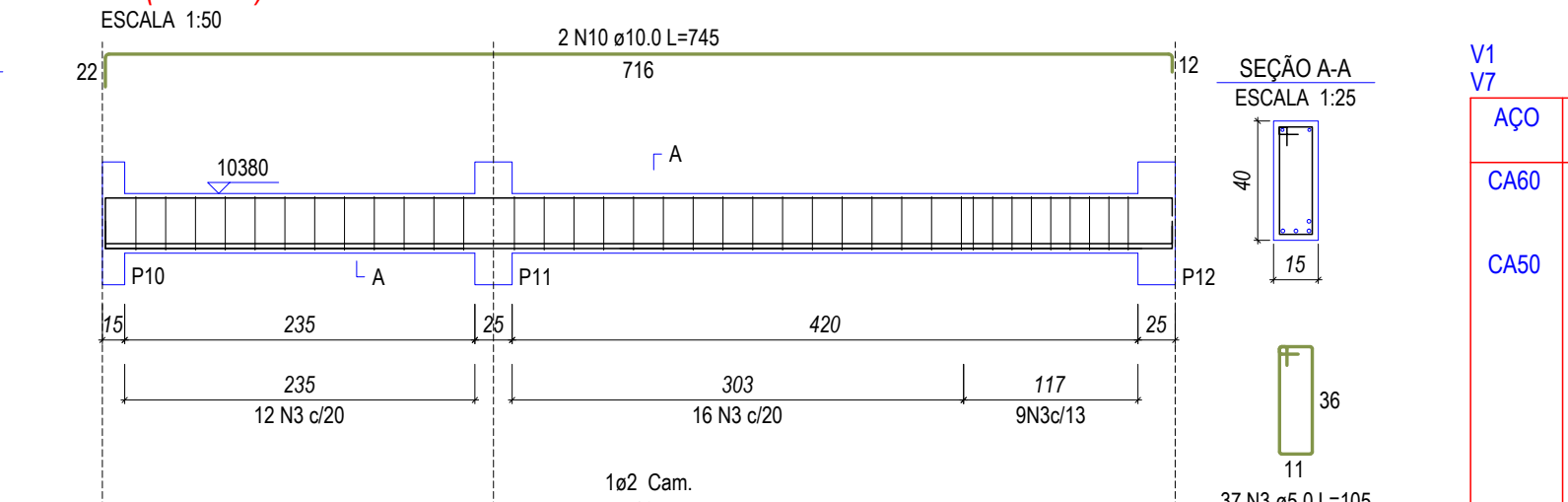
V1 (15 x 30)



V2 (15 x 50)



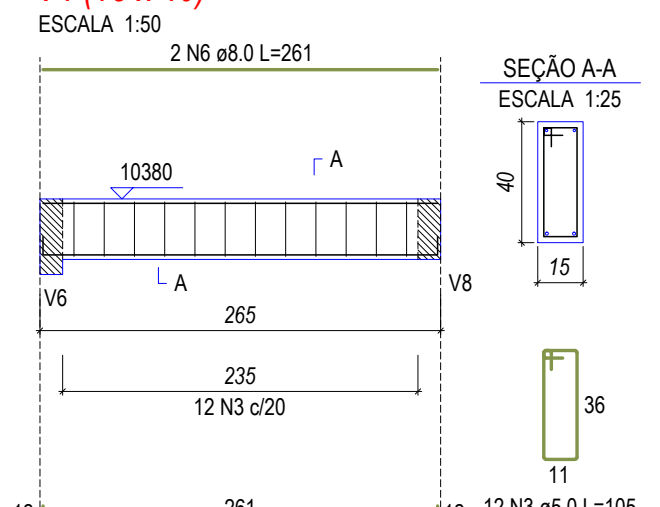
V3 (15 x 40)



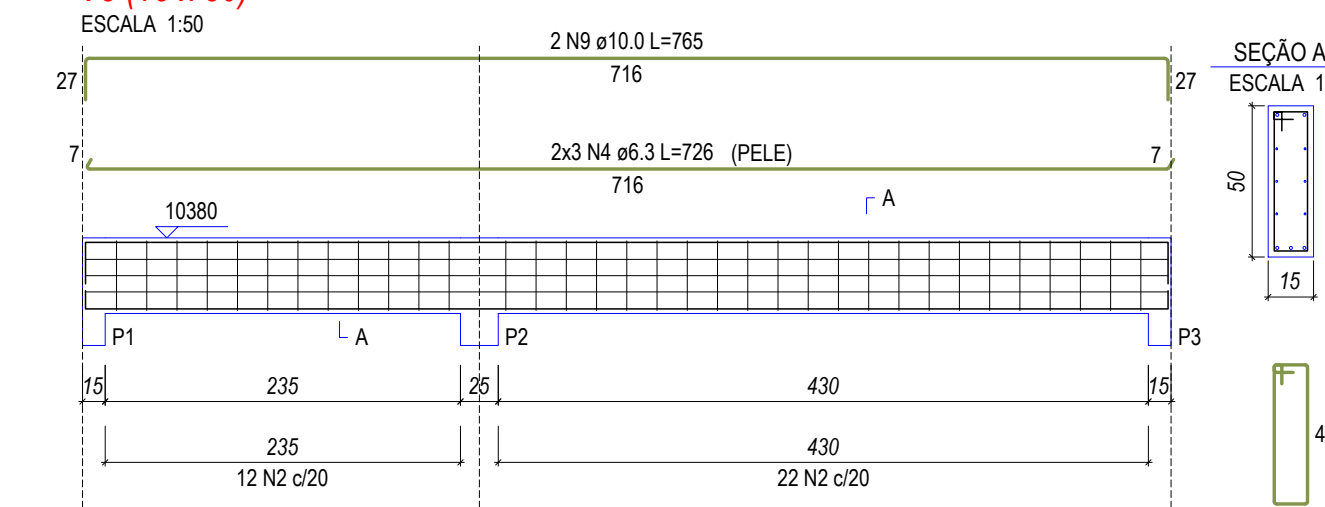
RELAÇÃO DO AÇO					
V1 V7	V2 V8	V3 V9	V4 V10	V5	V6
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	92	85	7820
	2	5.0	124	125	15500
CA50	3	5.0	90	105	9450
	4	6.3	12	726	8712
	5	6.3	6	610	3660
	6	8.0	2	261	522
	7	10.0	5	735	3675
	8	10.0	2	763	1526
	9	10.0	4	765	3060
	10	10.0	2	745	1490
	11	10.0	2	280	560
	12	10.0	2	641	1282
CA50	13	10.0	4	222	888
	14	10.0	4	250	1000
	15	10.0	2	646	1292
	16	10.0	2	645	1290
	17	12.5	7	740	5180
	18	12.5	4	625	2500
	19	12.5	3	631	1893

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)
CA50	6.3	123.7	11
	8.0	5.2	1
	10.0	160.6	14
	12.5	95.7	8
	5.0	327.7	28
PESO TOTAL (kg)		Volume de concreto (C-25) = 3.13 m³	
CA50	223.6	Área de forma = 54.28 m²	
CA60	50.5		

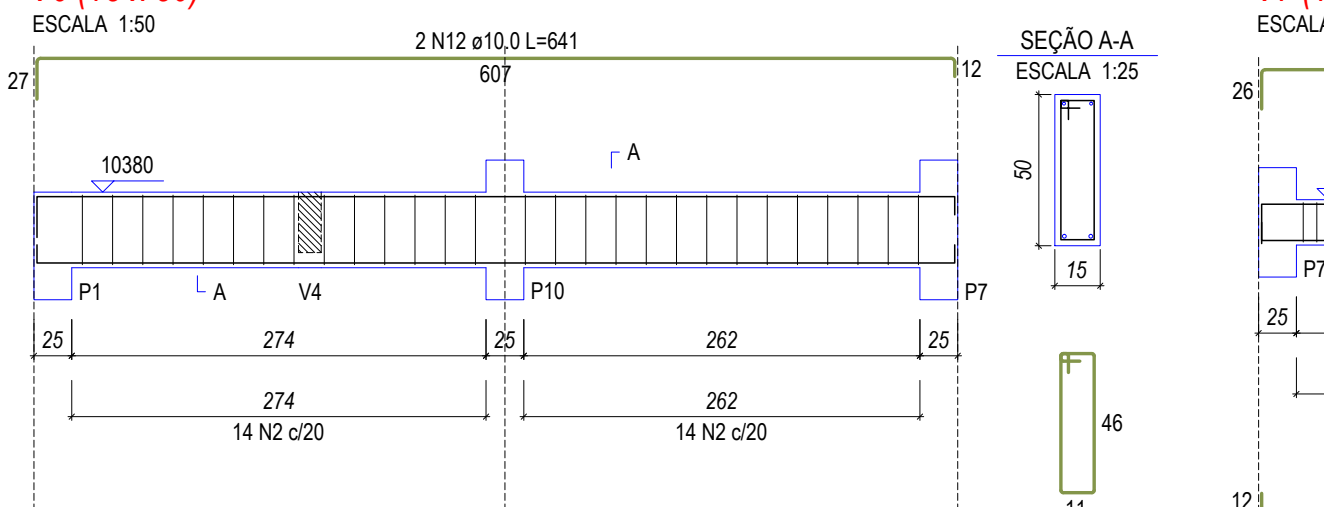
V4 (15 x 40)



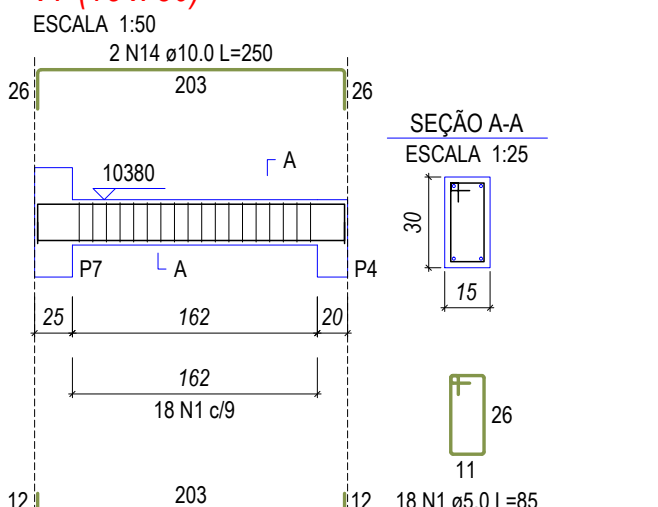
V5 (15 x 50)



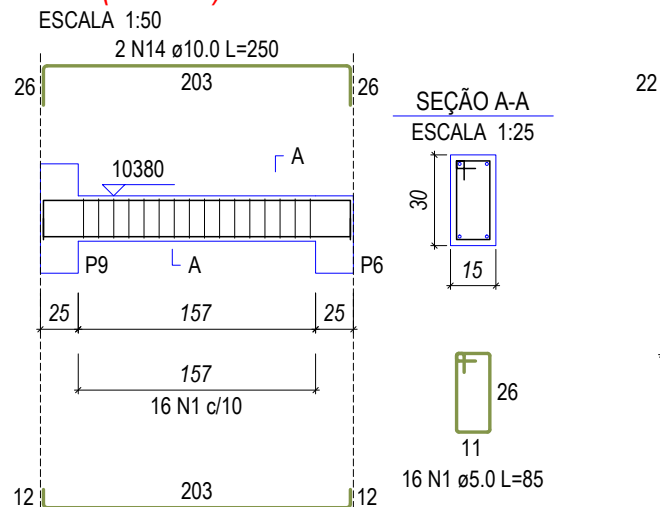
V6 (15 x 50)



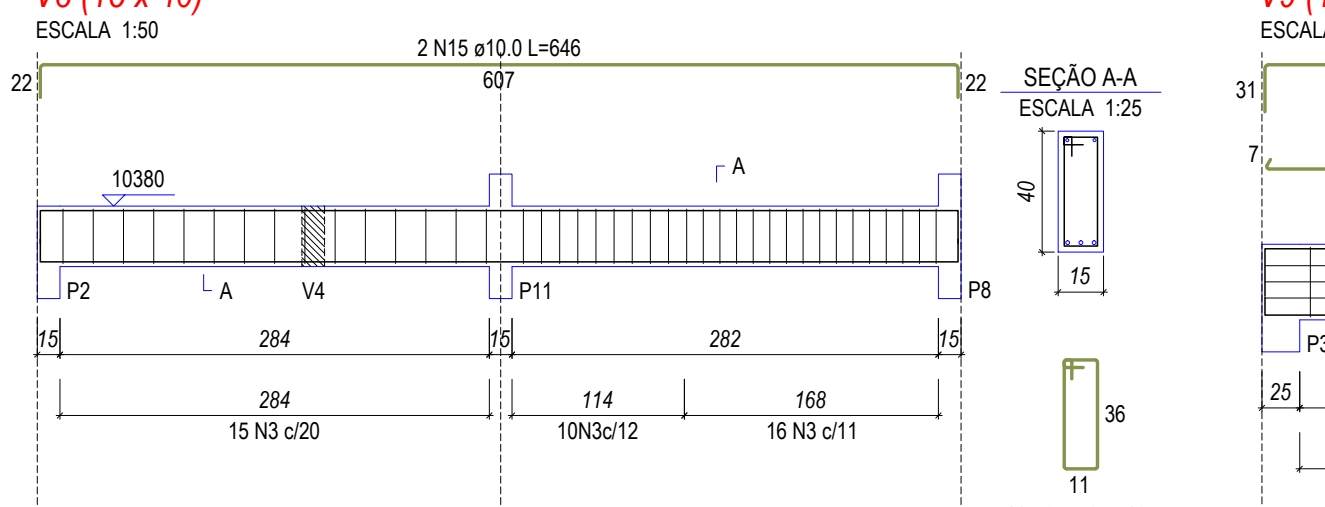
V7 (15 x 30)



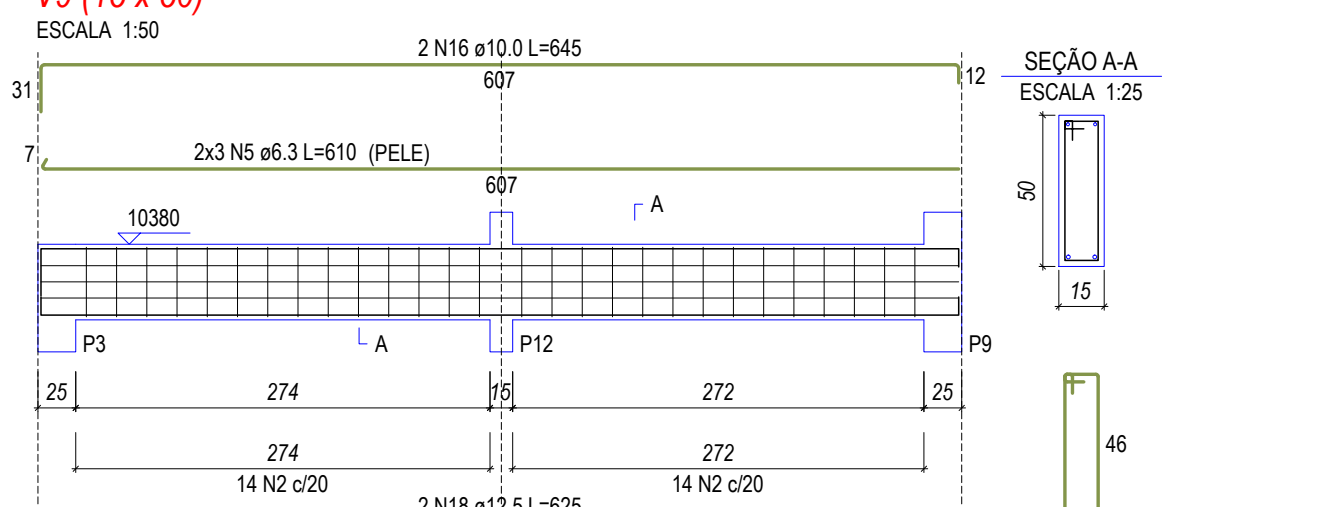
V10 (15 x 30)



V8 (15 x 40)

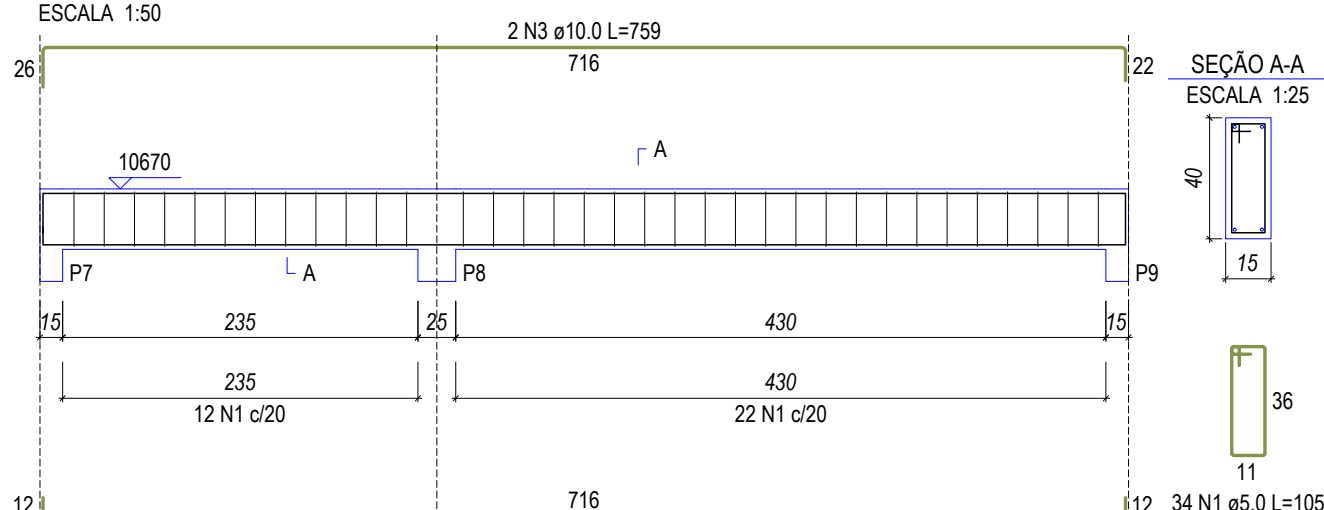


V9 (15 x 50)

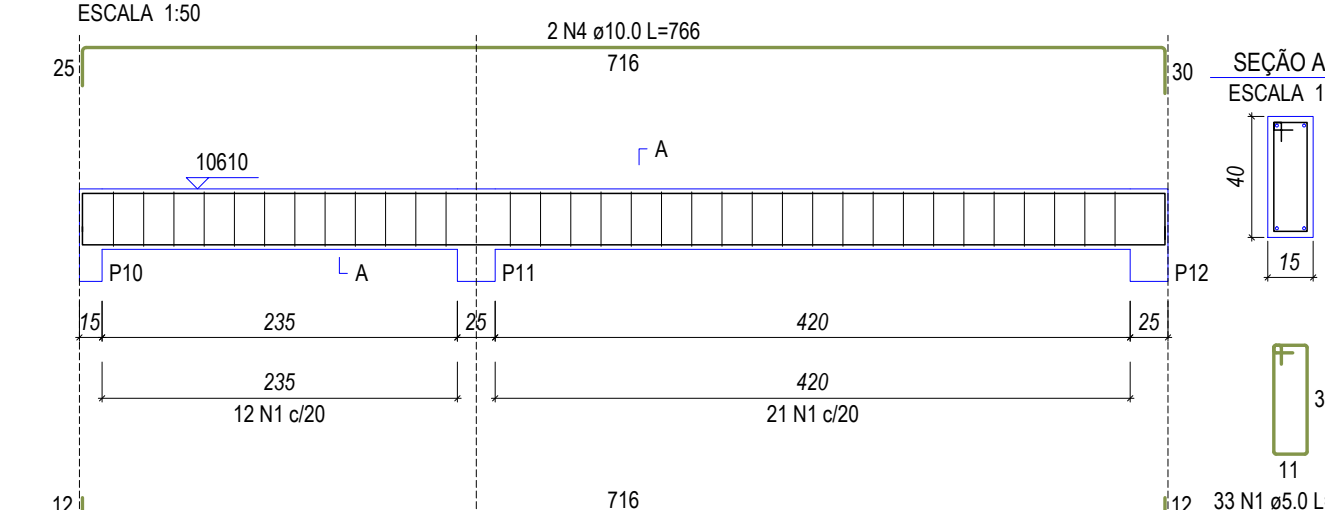


TETO DO RESERVATÓRIO - DETALHAMENTO DAS VIGAS

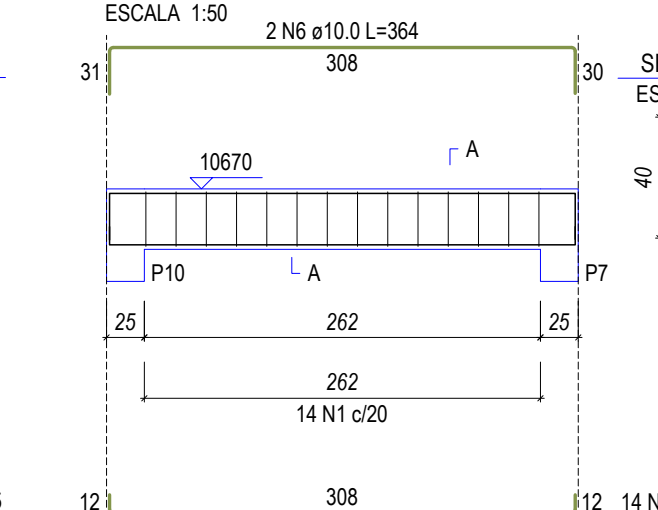
V1 (15 x 40)



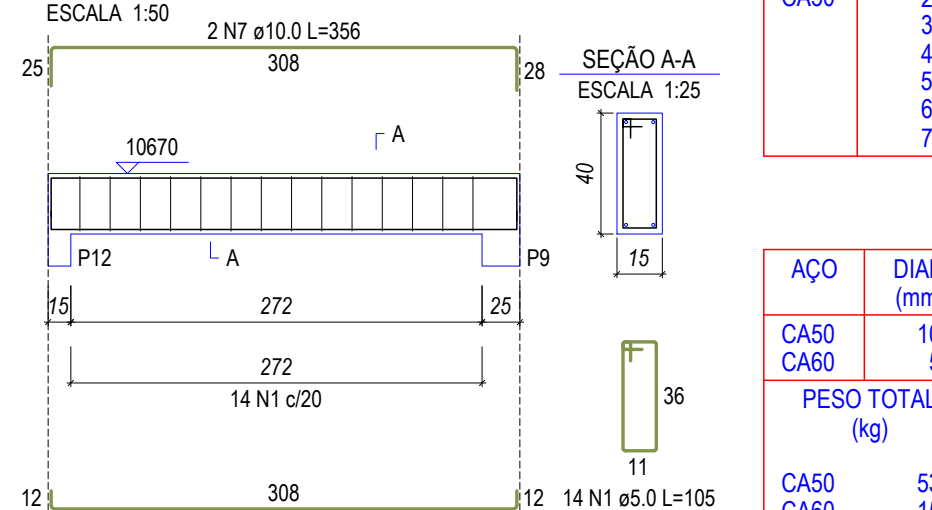
V2 (15 x 40)



V3 (15 x 40)



V4 (15 x 40)



RELAÇÃO DO AÇO					
V1	V2	V3	V4		
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	95	105	9975
	2	10.0	4	735	2940
CA50	3	10.0	2	759	1518
	4	10.0	2	766	1532
	5	10.0	4	327	1308
	6	10.0	2	364	728
	7	10.0	2	356	712

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)
CA50	10.0	87.4	8
CA60	5.0	99.8	9
PESO TOTAL (kg)		Volume de concreto (C-25) = 1.11 m³	
CA50	53.9	Área de forma = 19.61 m²	
CA60	15.4		

SECRETARIA DE MUNICÍPIO DE ELABORAÇÃO DE PROJETOS E CAPTAÇÃO DE RECURSOS

SECRETARIA DE ELABORAÇÃO DE PROJETOS

SECRETARIA DE ELABORAÇÃO DE PROJETOS

SECRETARIA DE ELABORAÇÃO DE PROJETOS

PREFEITO MUNICIPAL: JORGE CLADISTONE POZZOBOM

SECRETÁRIO: JOSÉ ANTÔNIO DE AZEVEDO GOMES

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PROJETO ESTRUTURAL - VESTIÁRIO

DETALHAMENTO DAS VIGAS

PROPRIETÁRIA / SECRETARIA GESTORA

PROJETISTA / RESPONSÁVEL TÉCNICO

PREFEITURA MUNICIPAL DE SANTA MARIA

Eng. Civil Regis C. Moraes
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