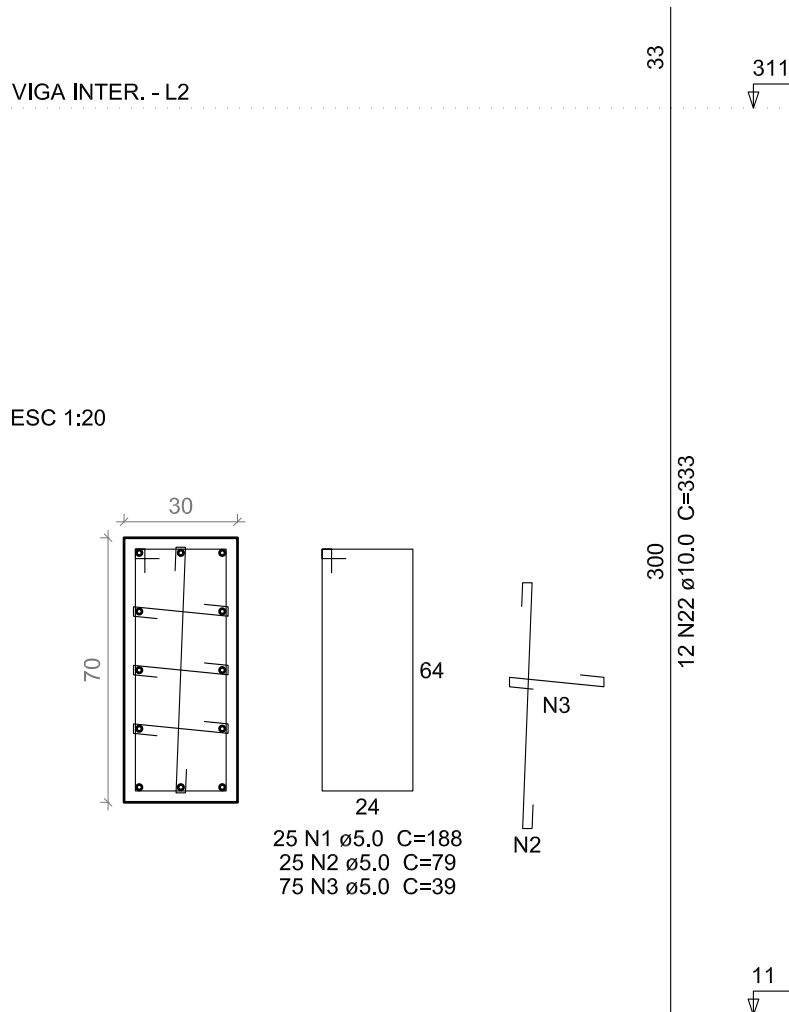
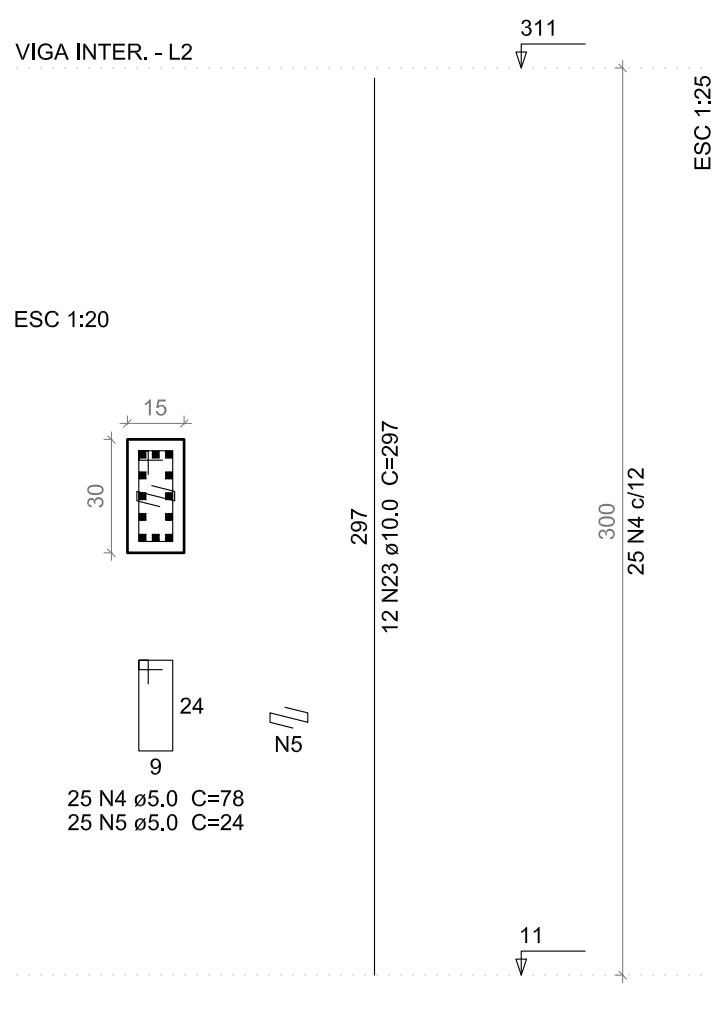


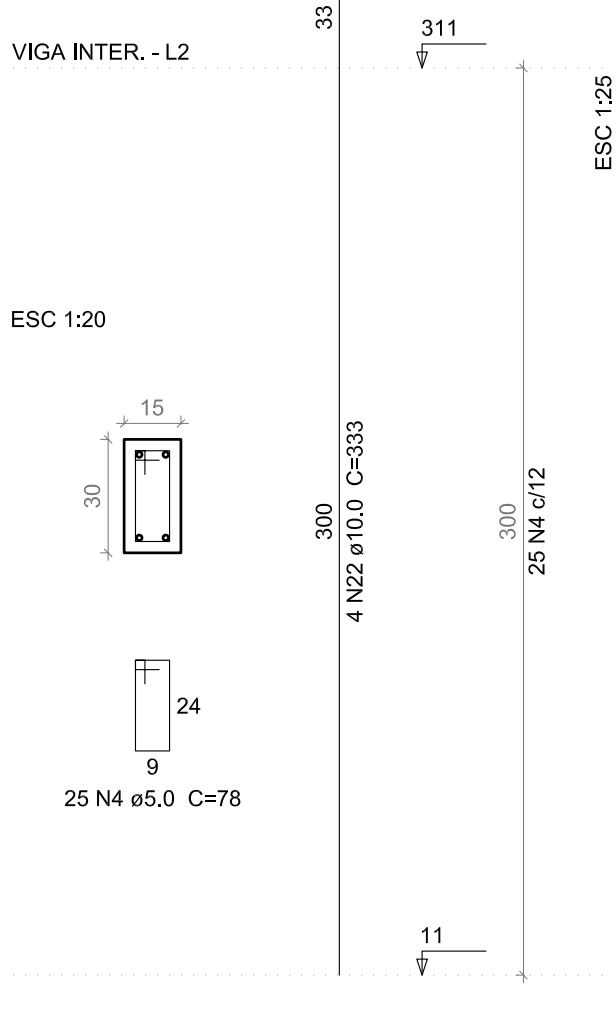
P1=P2=P3=P4=P5=P6=P7=P8=P25=P26=P27=P28
=P29=P30=P31=P32



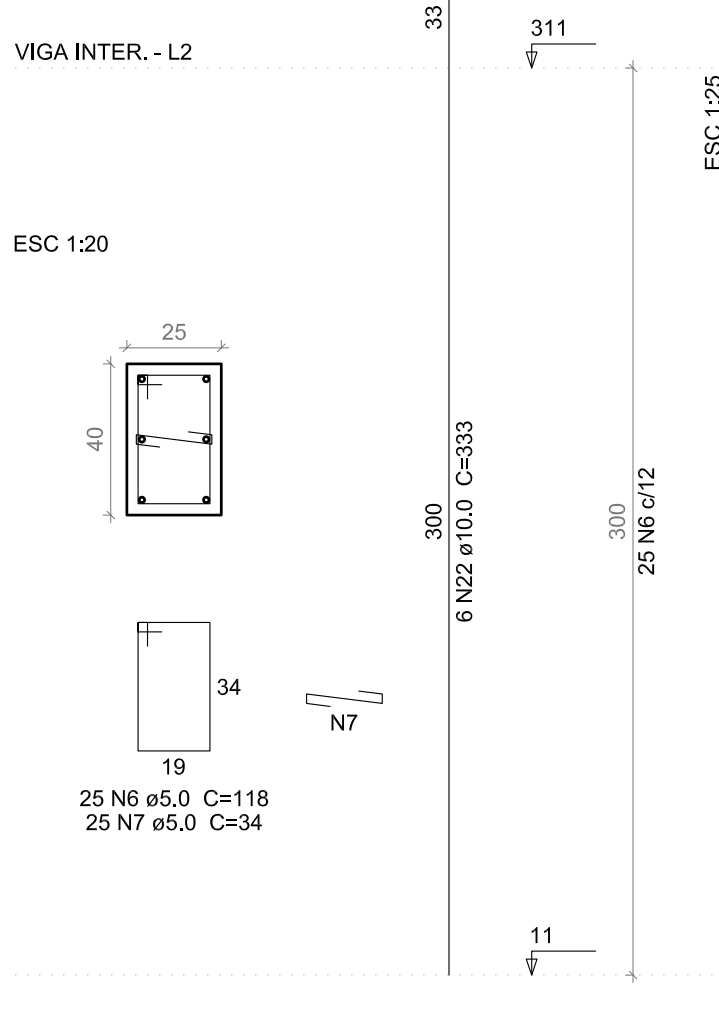
P9



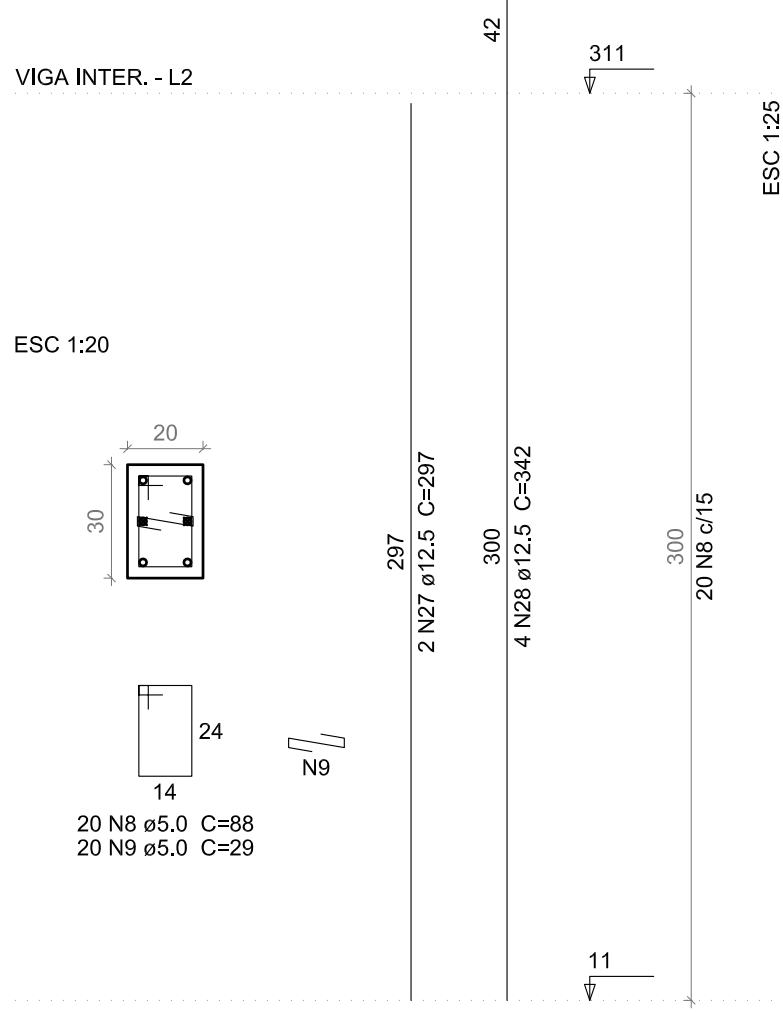
P10



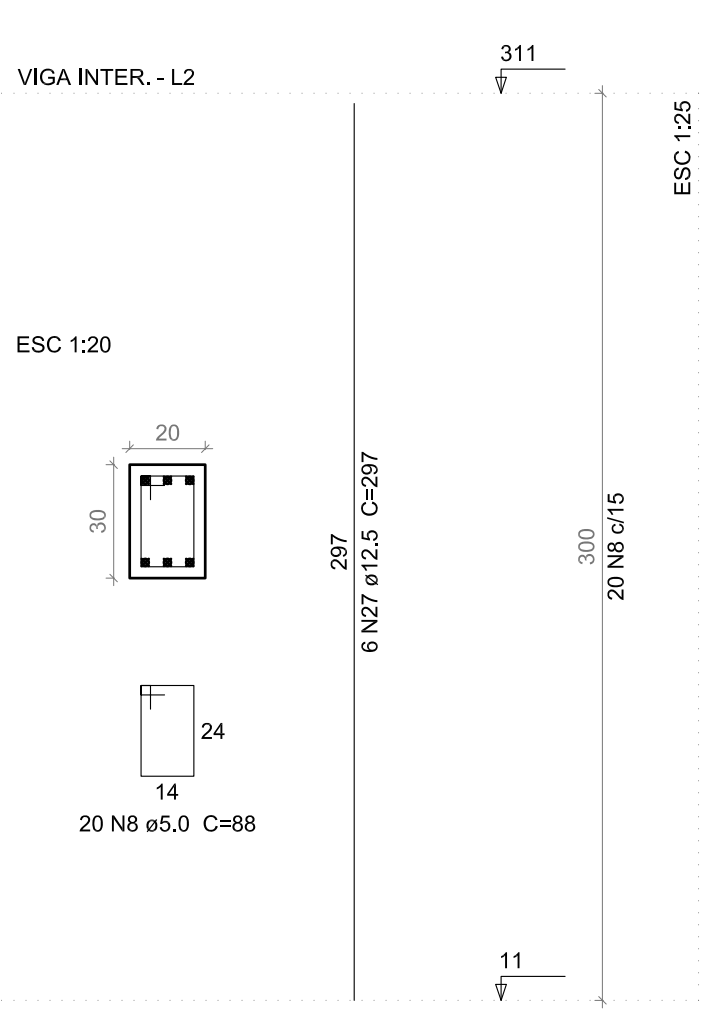
P11=P12=P15=P18=P21=P22



P13=P23



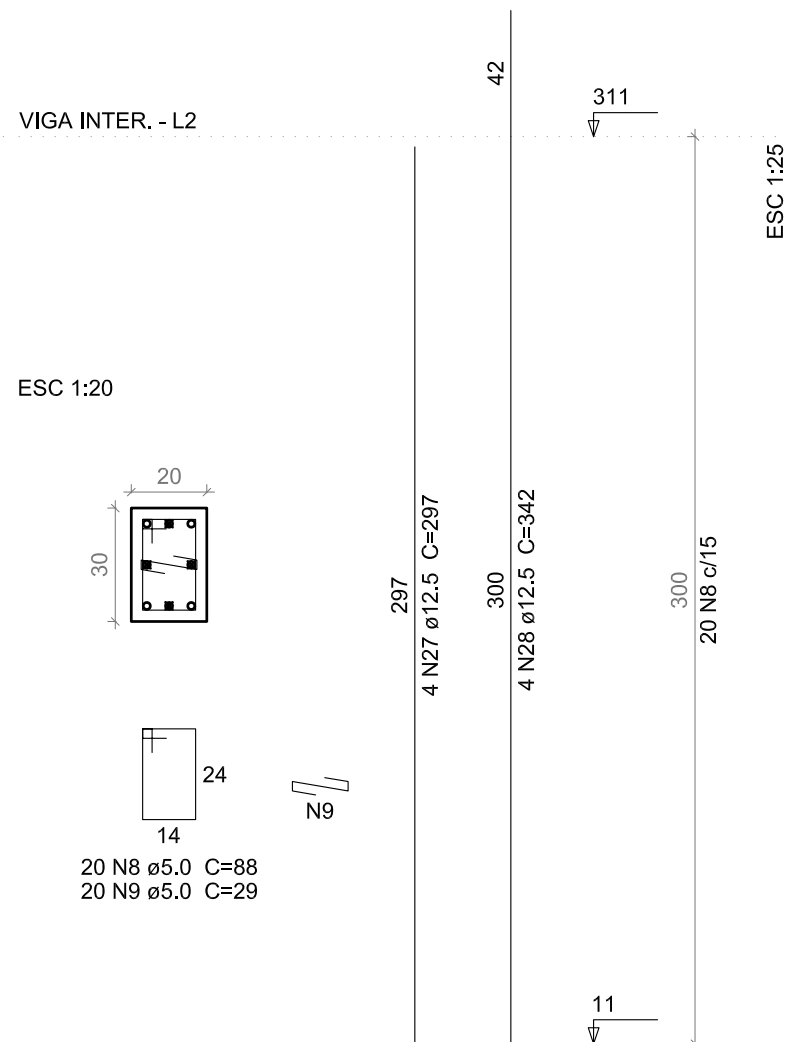
P14



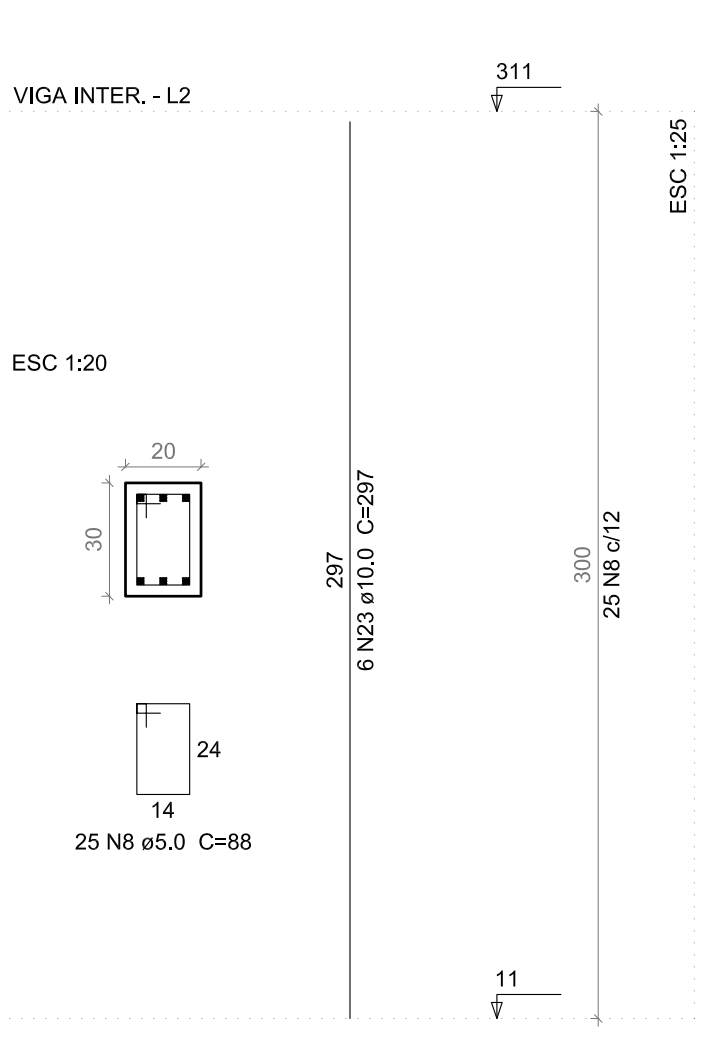
Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	400	188	75200
	2	5.0	400	79	31800
	3	5.0	1200	39	46800
	4	5.0	462	78	36036
	5	5.0	25	24	600
	6	5.0	150	118	17700
	7	5.0	150	34	5100
	8	5.0	175	88	15400
	9	5.0	80	29	2320
	10	5.0	28	104	2912
	11	5.0	2	404	808
	12	8.0	3	558	1674
	13	8.0	1	571	571
	14	8.0	3	584	1752
	15	8.0	18	555	9990
	16	8.0	6	569	3414
	17	8.0	18	581	10458
	18	8.0	9	550	4950
	19	8.0	3	597	1791
	20	8.0	6	576	3456
	21	8.0	2	420	840
	22	10.0	232	333	77256
	23	10.0	40	297	11880
	24	10.0	2	557	1114
	25	10.0	1	190	190
	26	10.0	2	583	1166
	27	12.5	18	297	5346
	28	12.5	16	342	5472

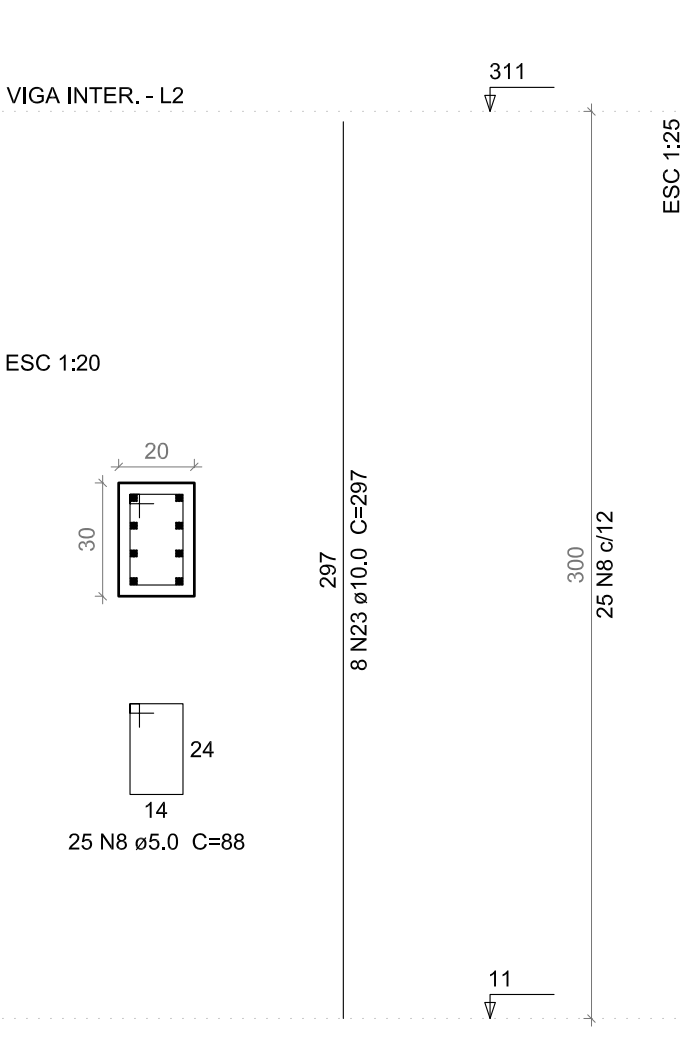
P16=P19



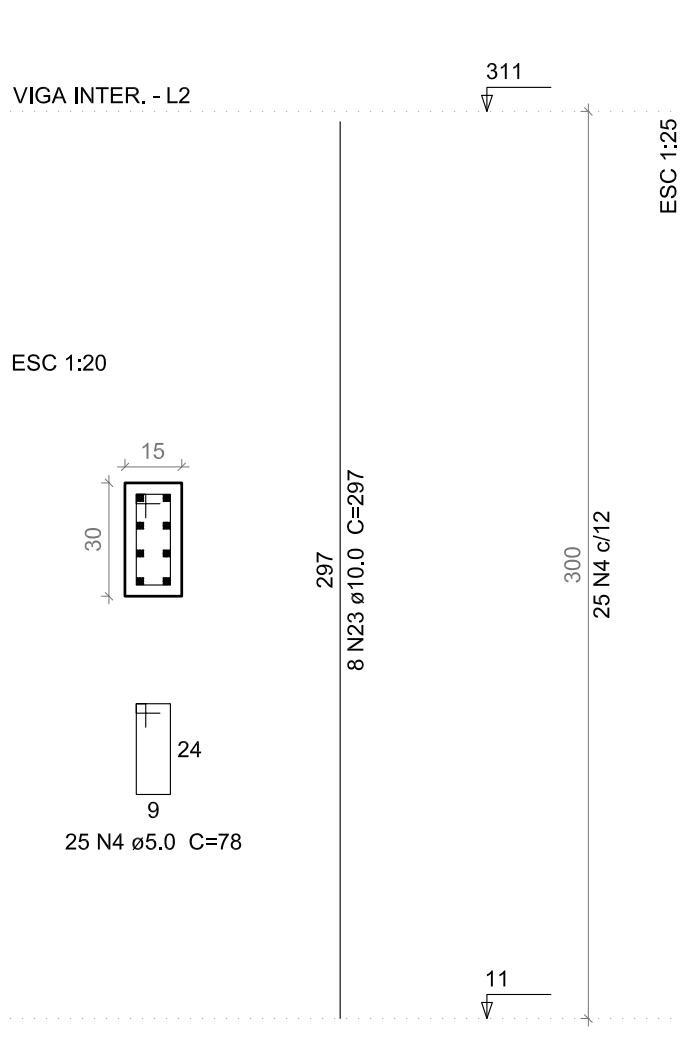
P17=P20



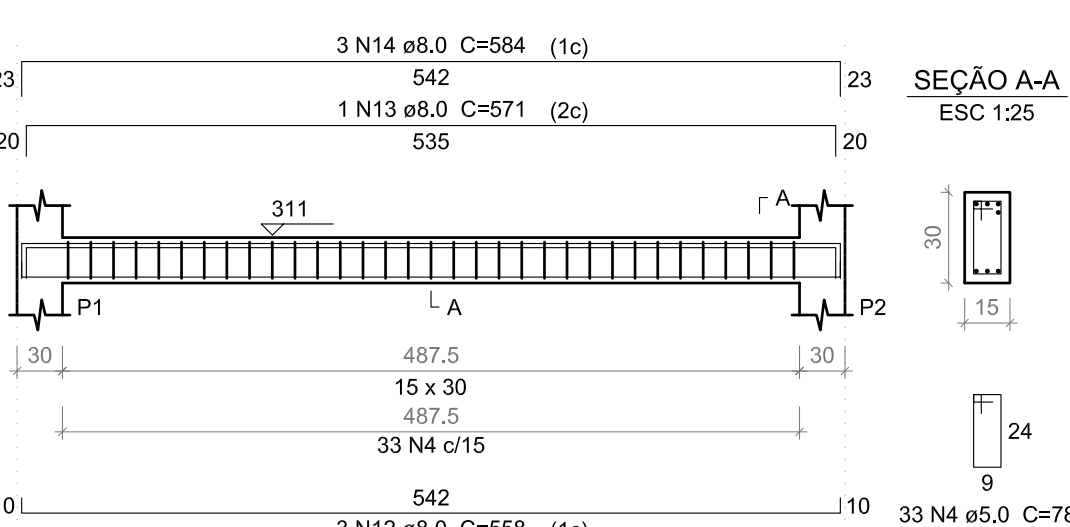
P24



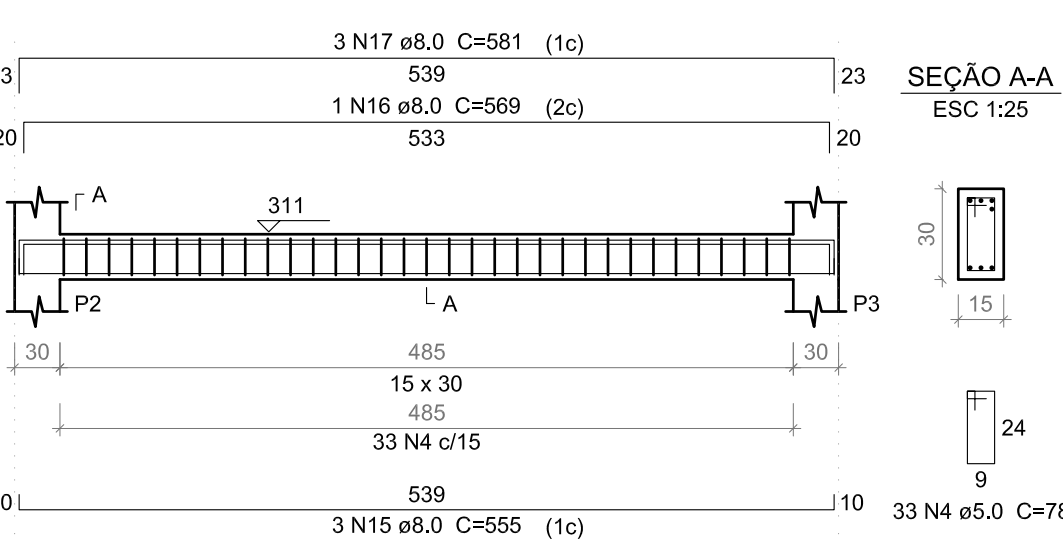
P33



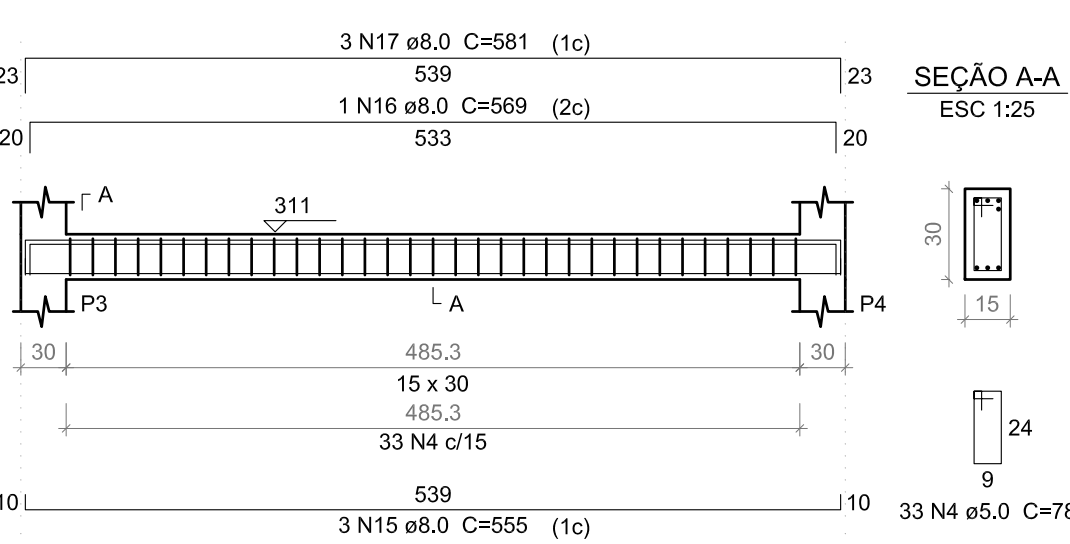
V1 (15 x 30)



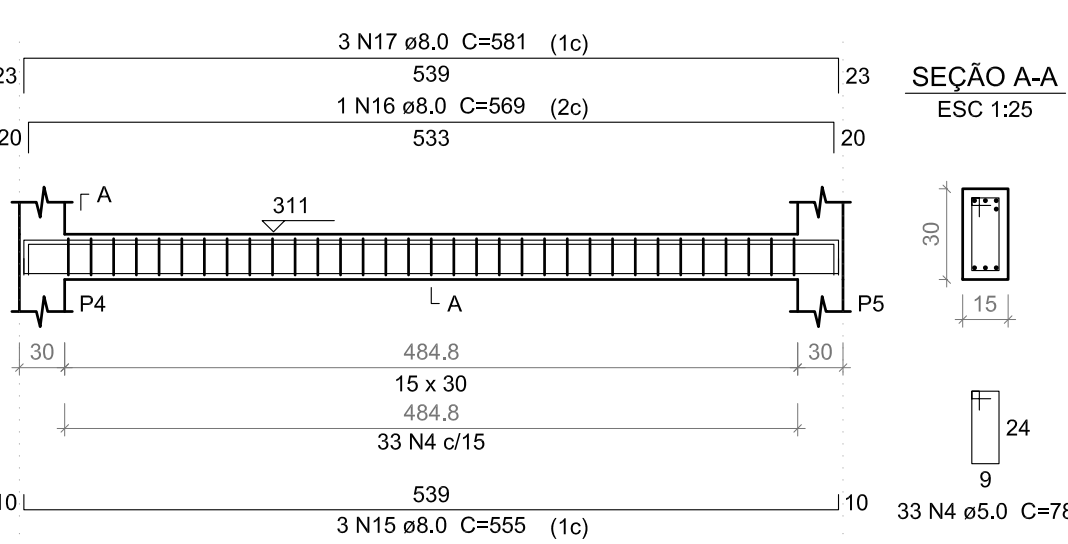
V2 (15 x 30)



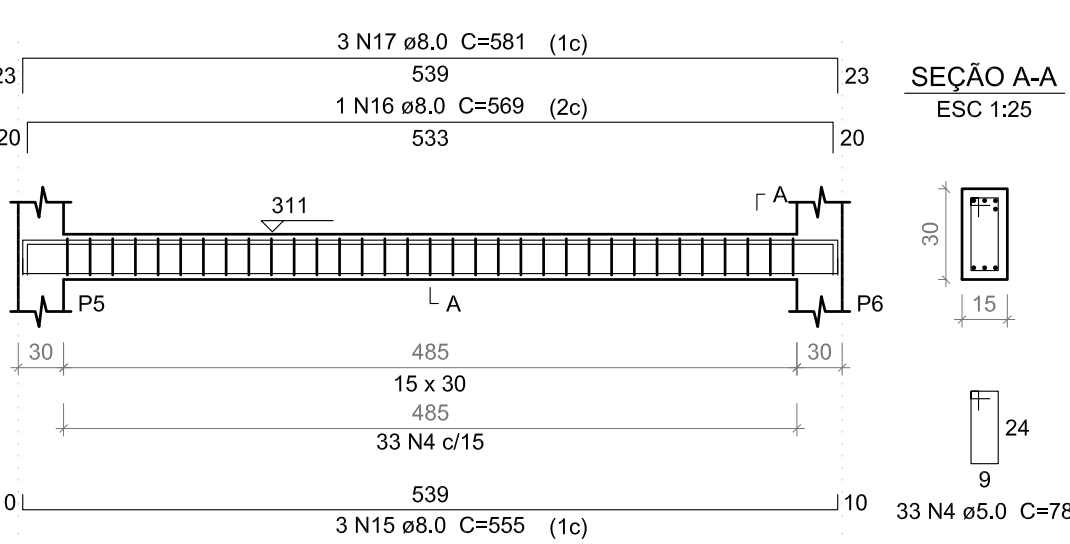
V3 (15 x 30)



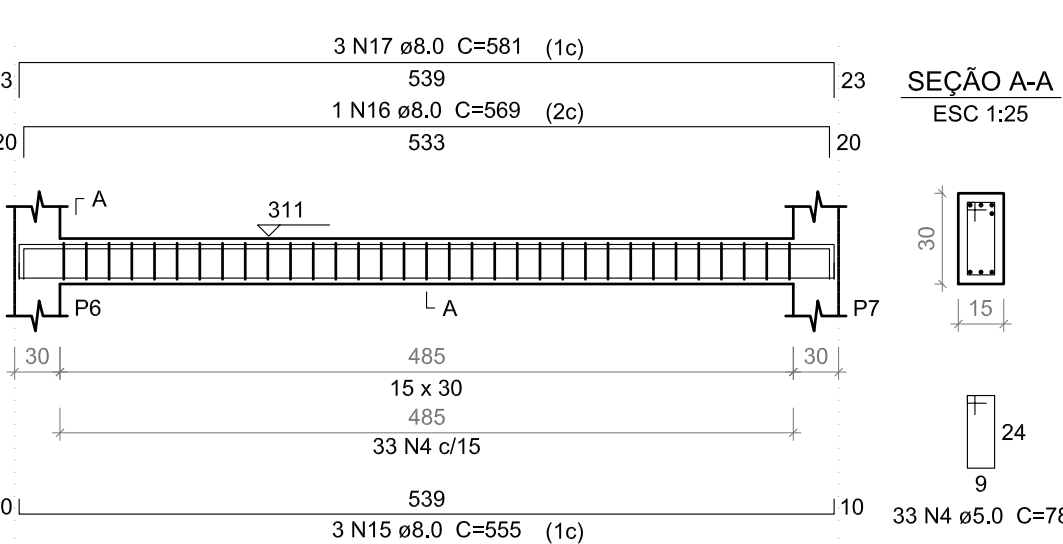
V4 (15 x 30)



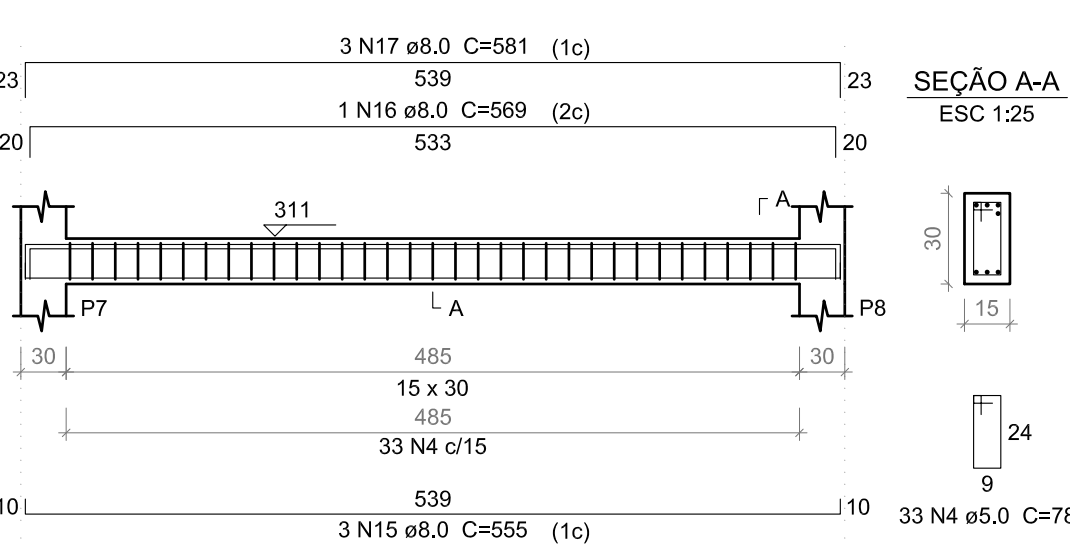
V5 (15 x 30)



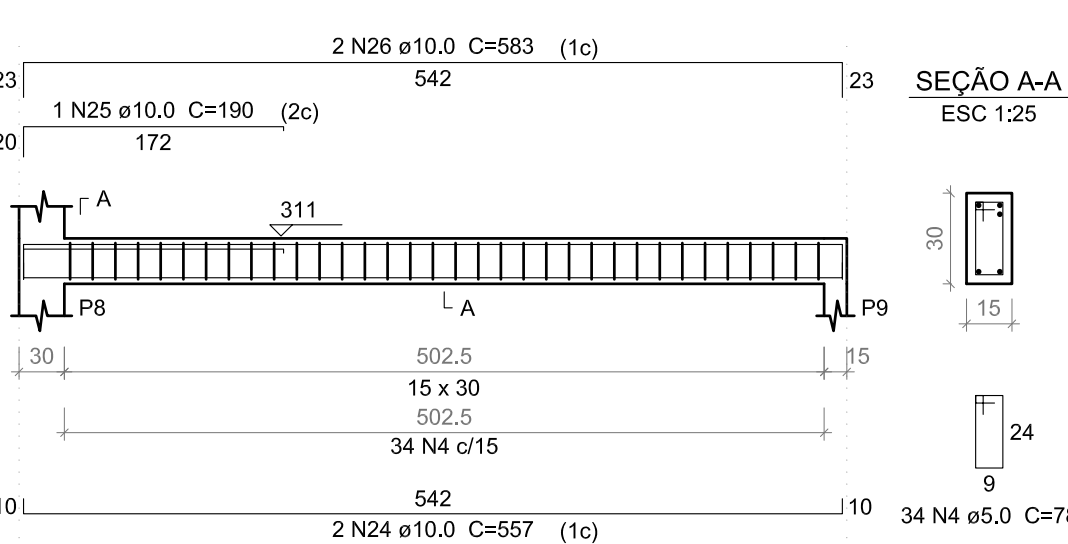
V6 (15 x 30)



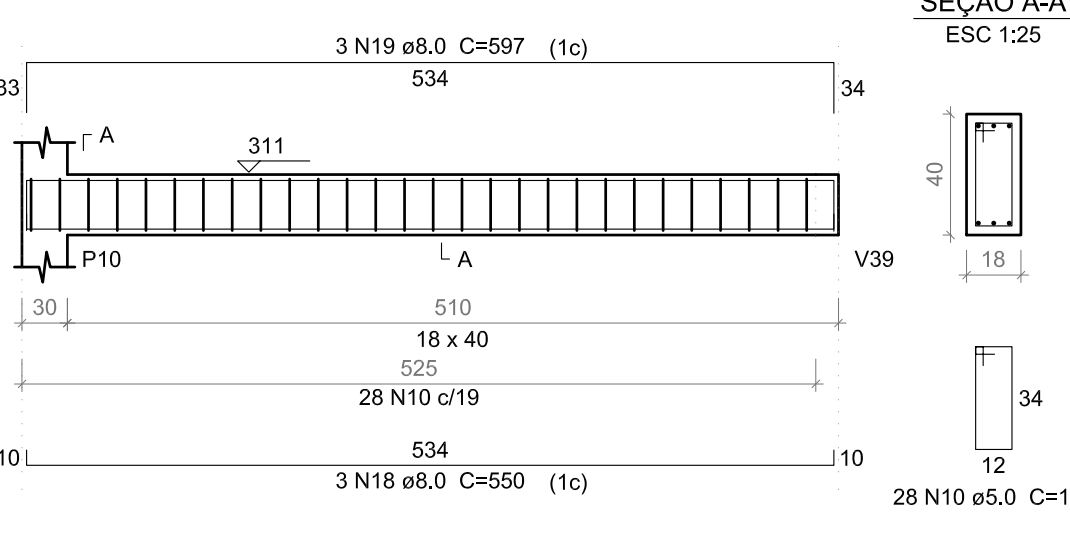
V7 (15 x 30)



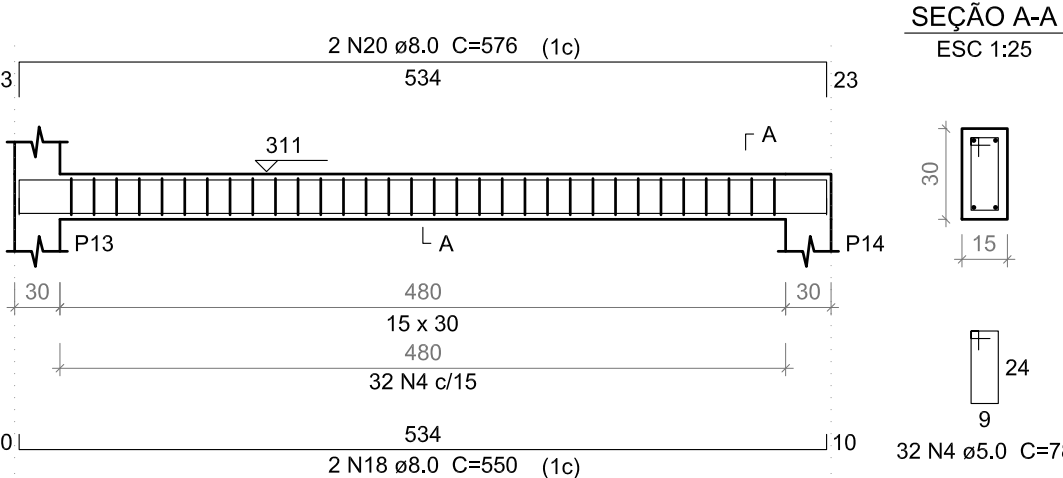
V8 (15 x 30)



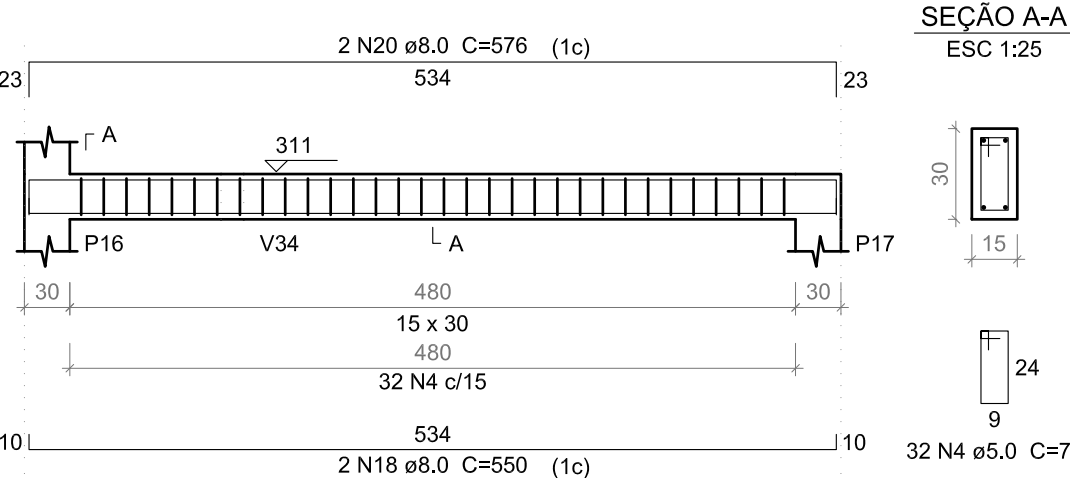
V9 (18 x 40)



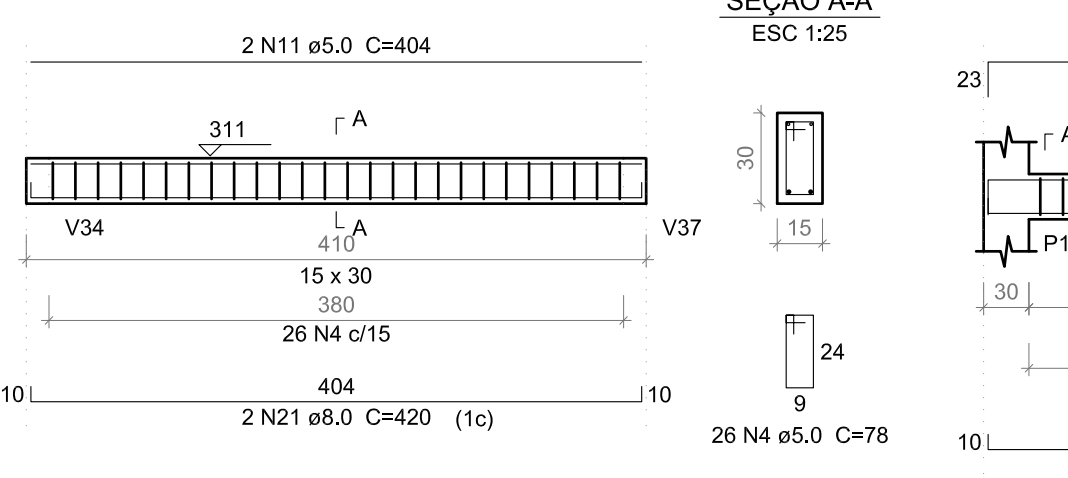
V10 (15 x 30)



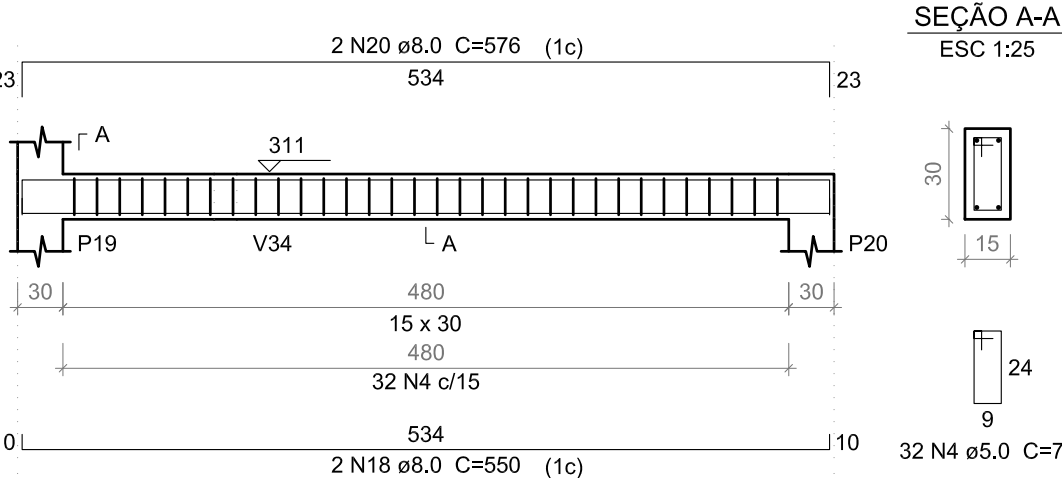
V11 (15 x 30)



V12 (15 x 30)



V13 (15 x 30)





Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	389	168.8
	10.0	916.1	621.3
	12.5	108.2	114.6
CA60	5.0	2344.8	397.5
PESO TOTAL (kg)			
CA50		904.7	
CA60		397.5	

Volume de concreto (C-30) = 16.99 m³
Área de forma = 204.75 m²

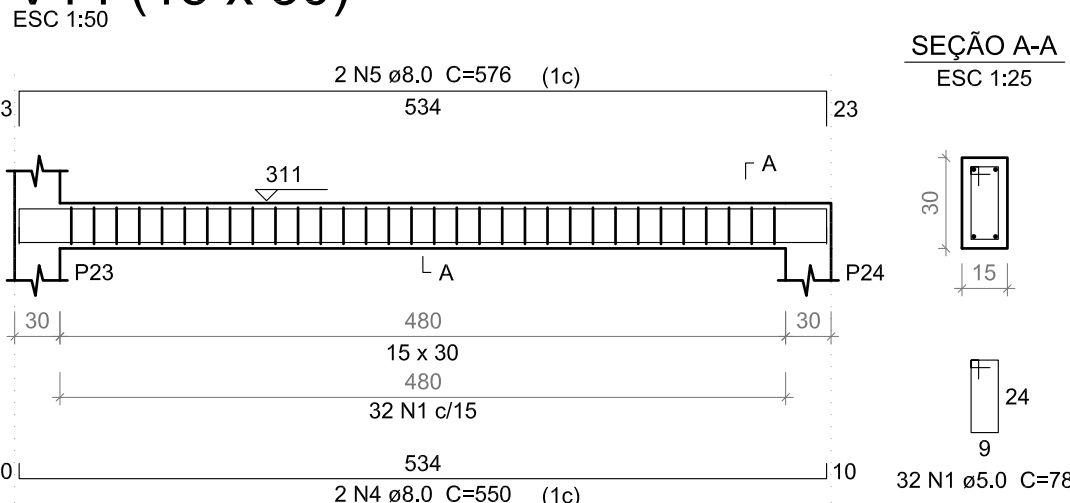
Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA

	AUTOR DO PROJETO: Engº. Fredrico Damasceno Pinheiro CREA 270082778-3	
	ENDEREÇO: Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE dipop@ifs.edu.br	
	TEL: (79)3711-3139	

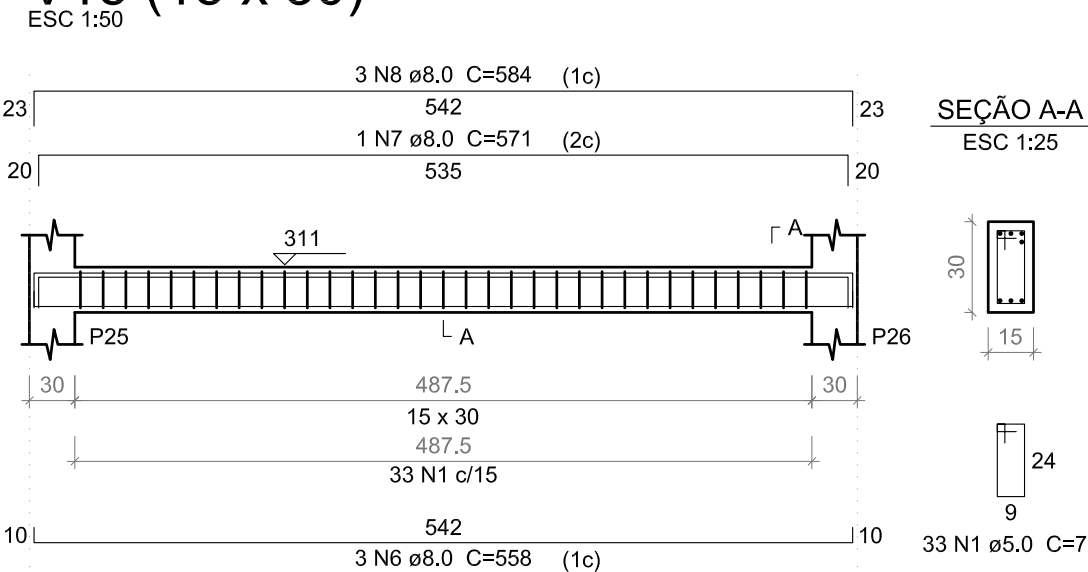
PROJETO ESTRUTURAL CAMPUS JAPARATUBA/SE

CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS JAPARATUBA	ESCALA: 1:100
ENDEREÇO: ROD. LÚCIO PRADO, S/N - JAPARATUBA/SE	DATA: JUN/2024
PLANTA: QUADRA COBERTA ARMAÇÃO PILARES E VIGAS INTERMEDIÁRIA	PRANCHA: 05/07
CADENHO: JAPCAMESTPE005007R01	

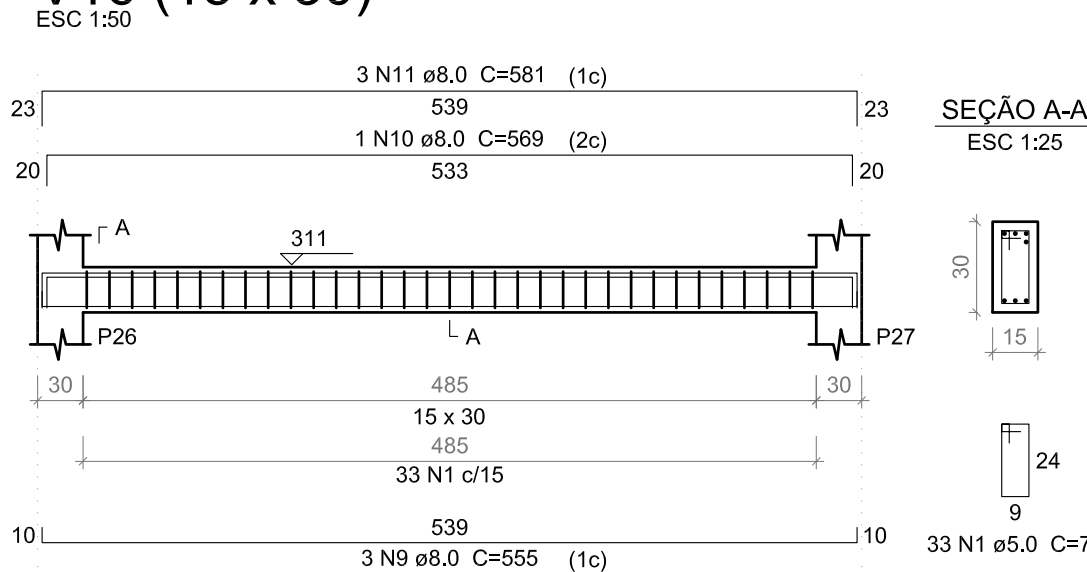
V14 (15 x 30)



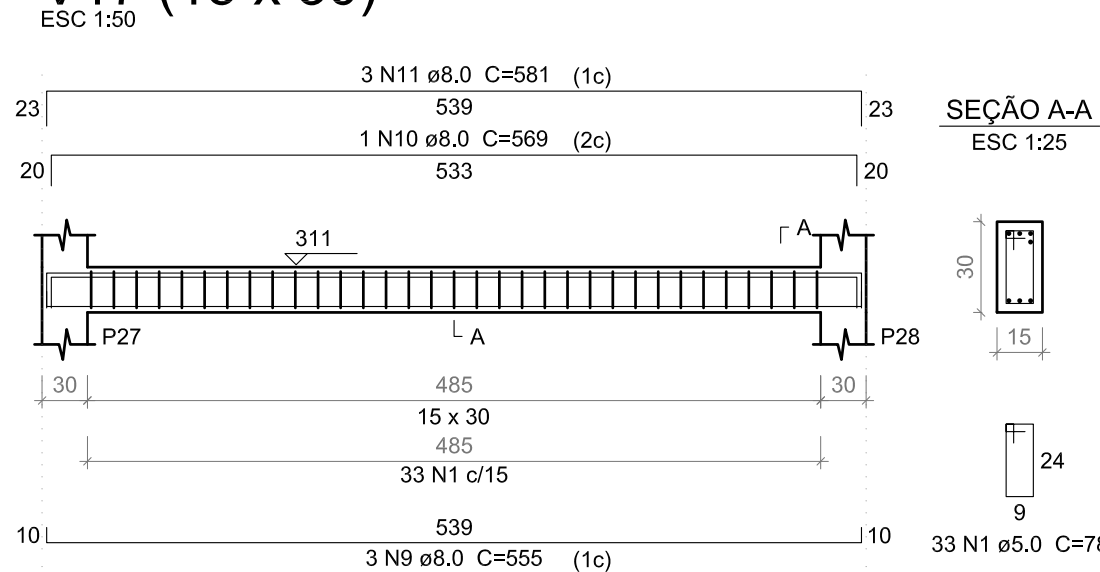
V15 (15 x 30)



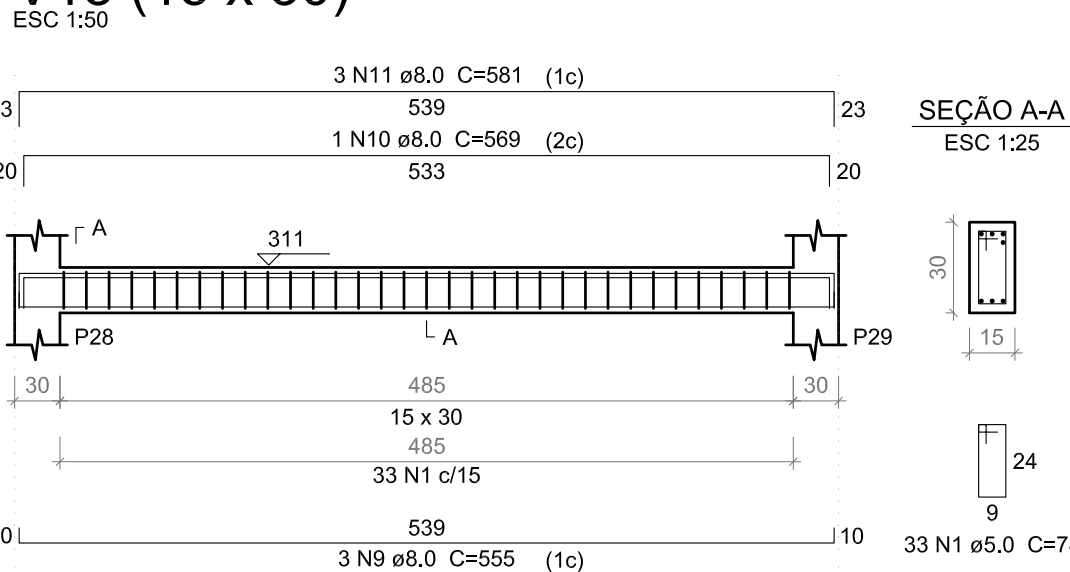
V16 (15 x 30)



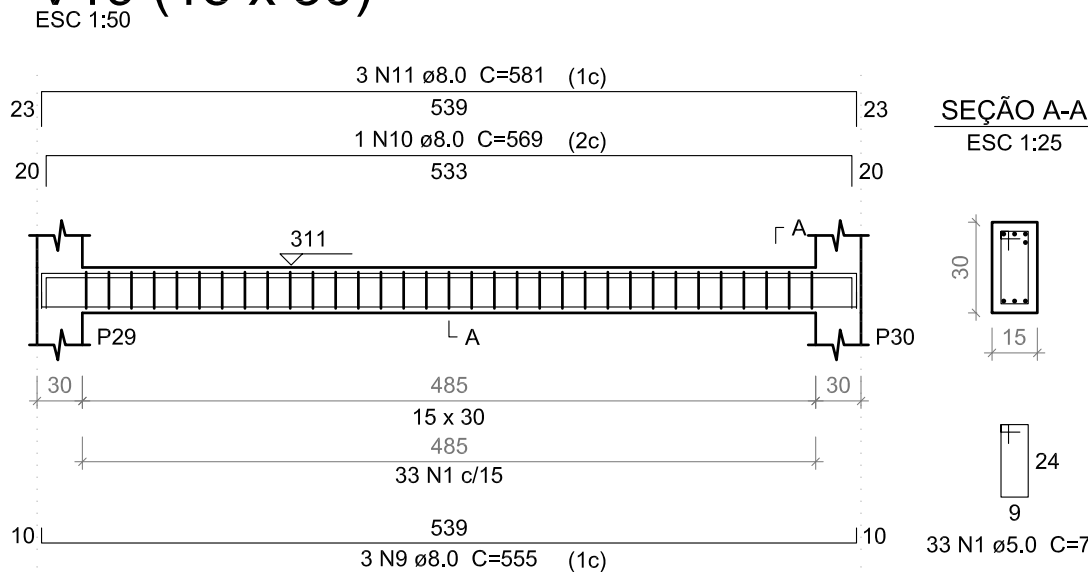
V17 (15 x 30)



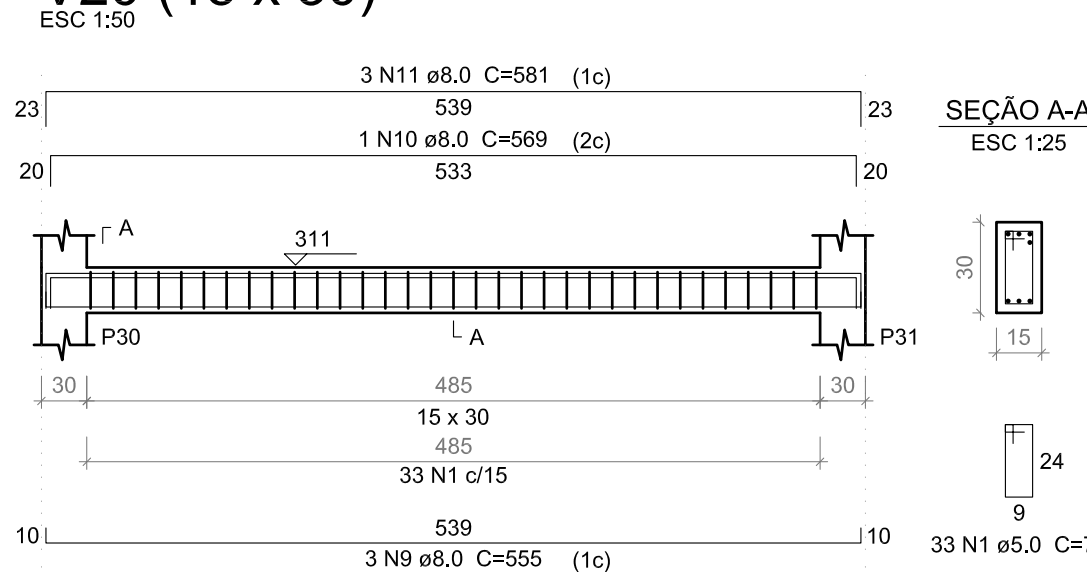
V18 (15 x 30)



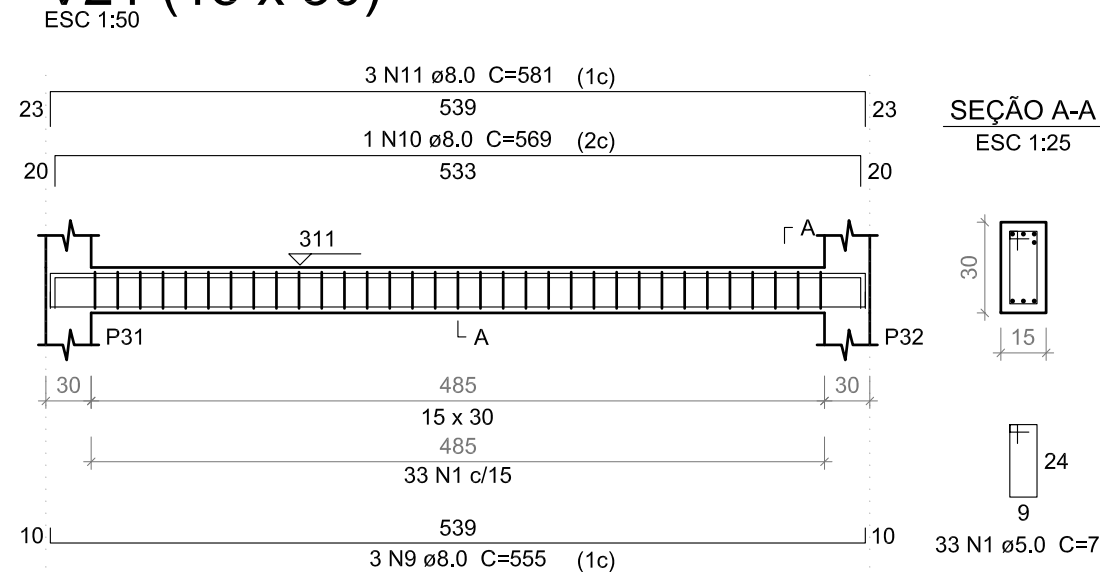
V19 (15 x 30)



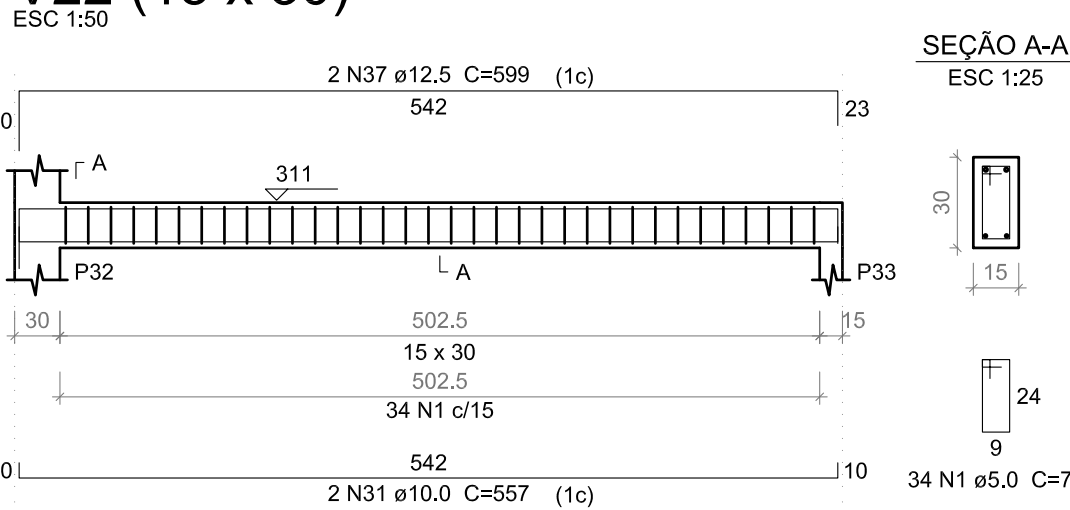
V20 (15 x 30)



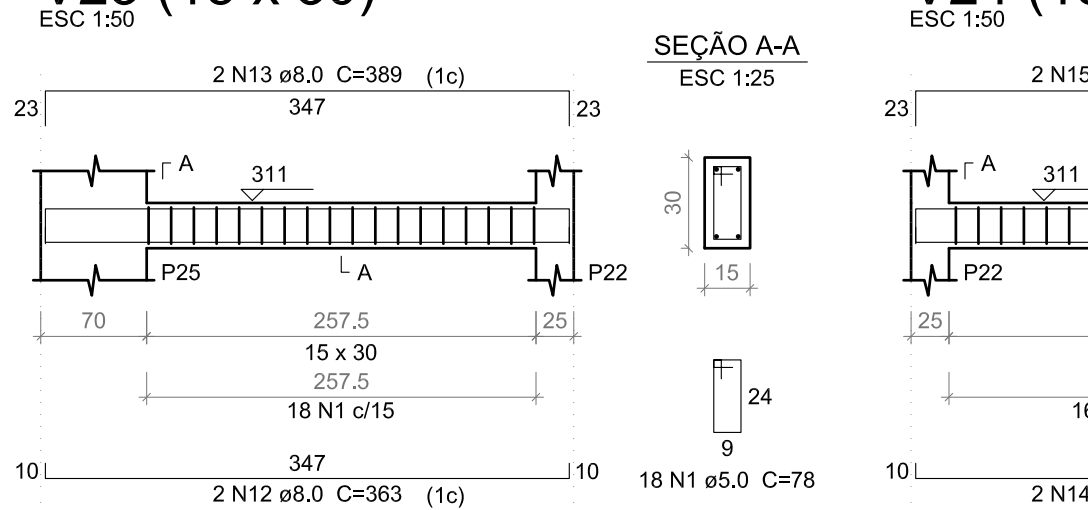
V21 (15 x 30)



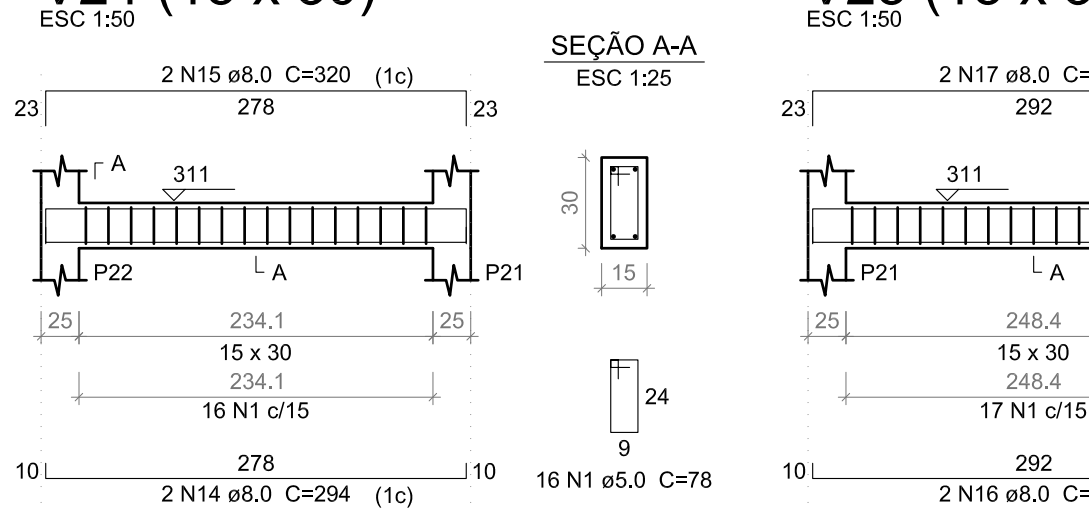
V22 (15 x 30)



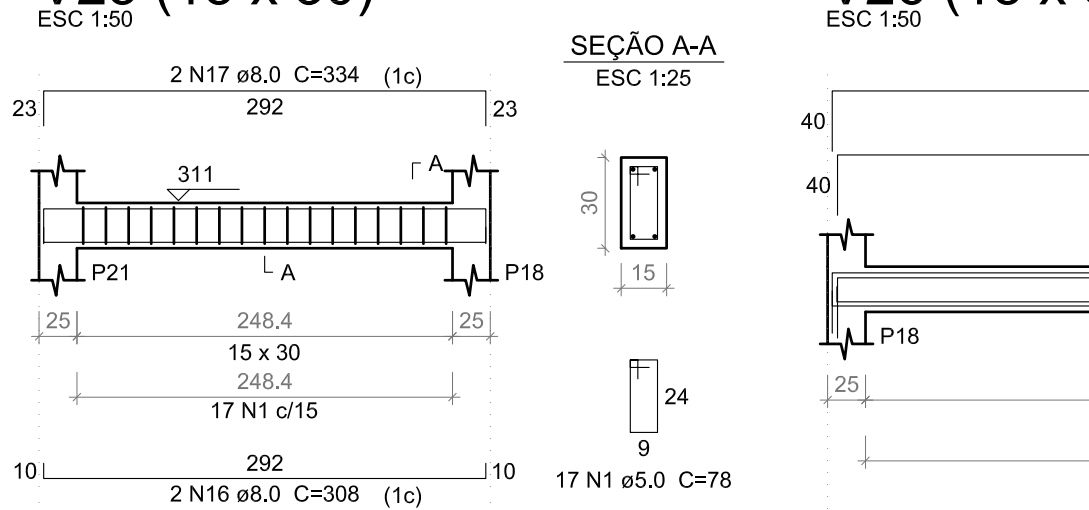
V23 (15 x 30)



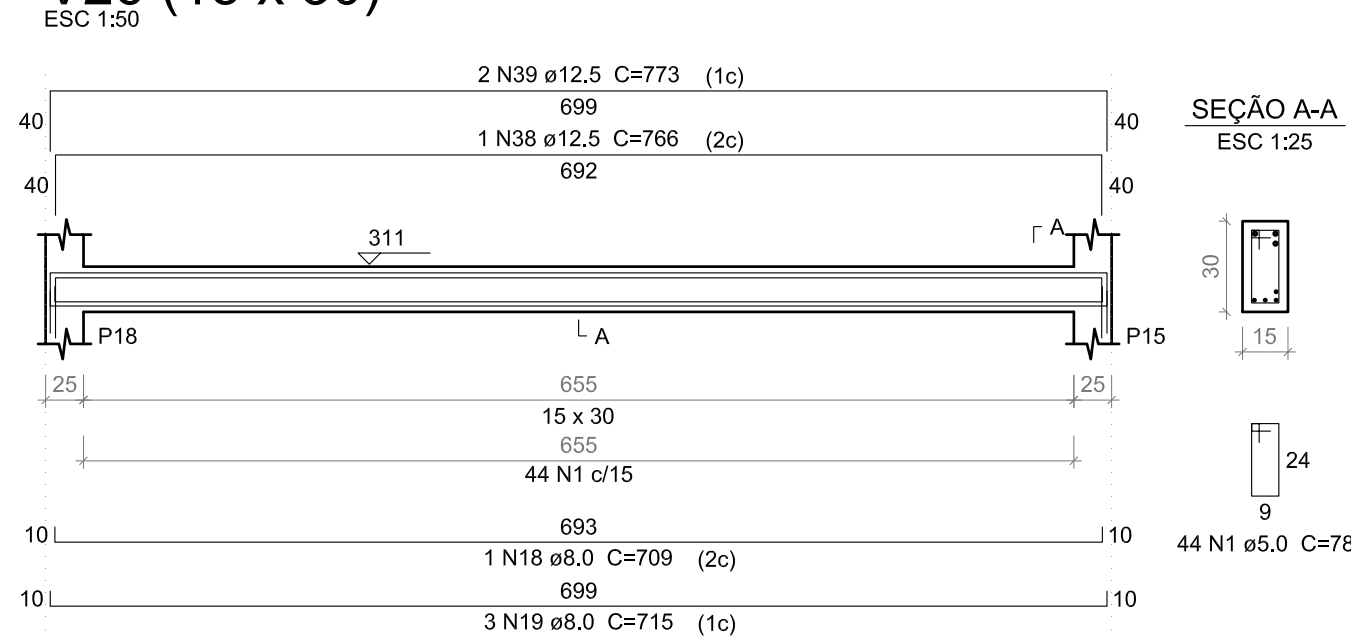
V24 (15 x 30)



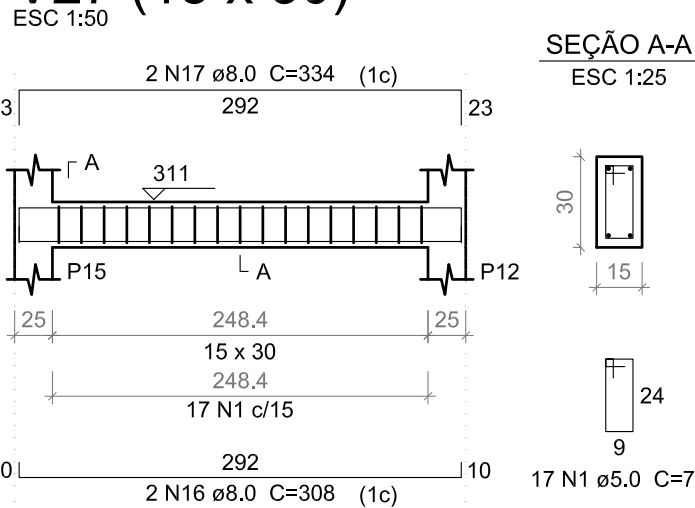
V25 (15 x 30)



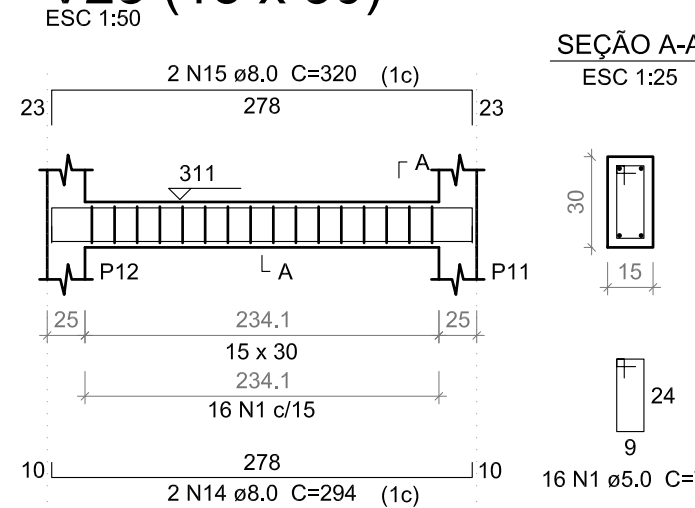
V26 (15 x 30)



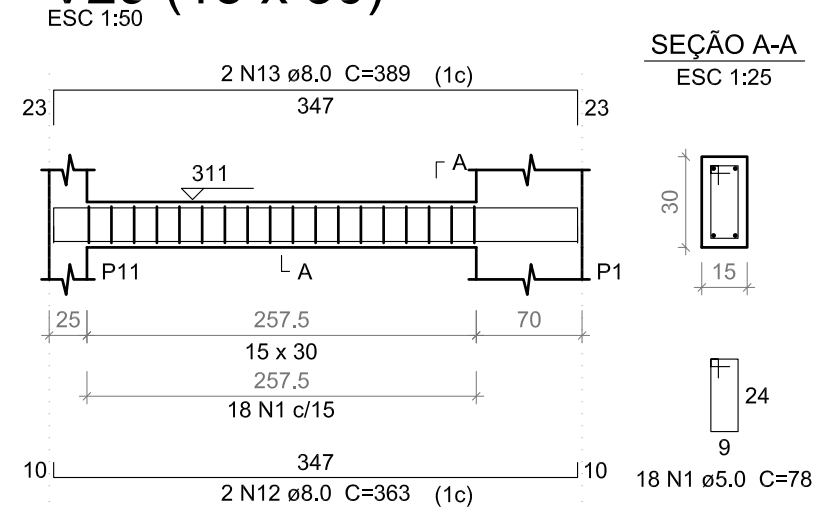
V27 (15 x 30)



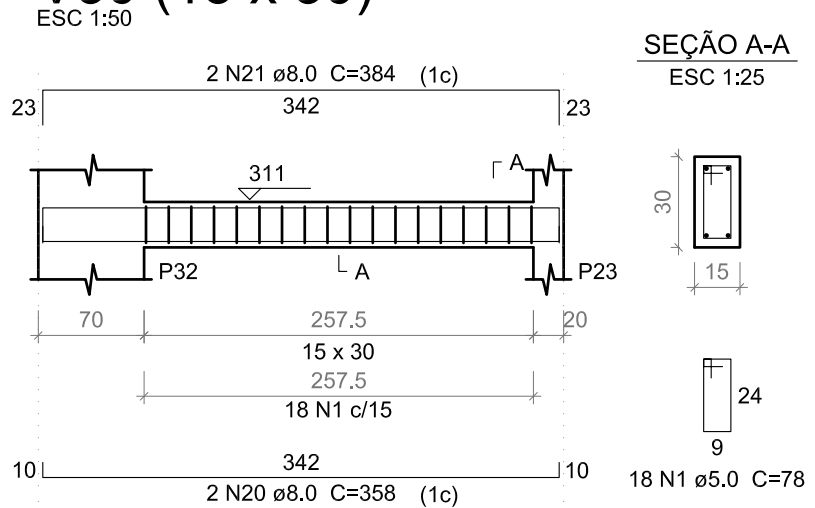
V28 (15 x 30)



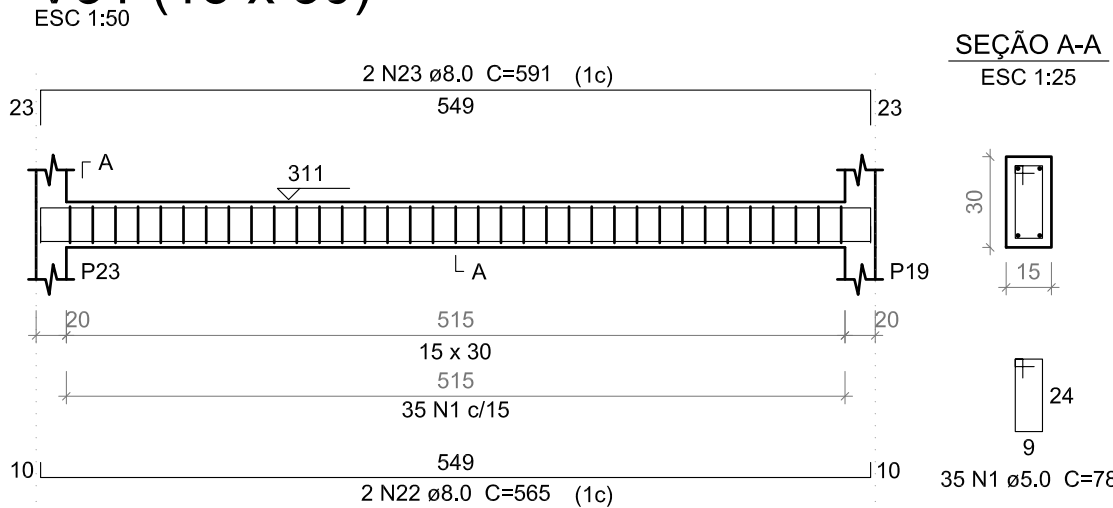
V29 (15 x 30)



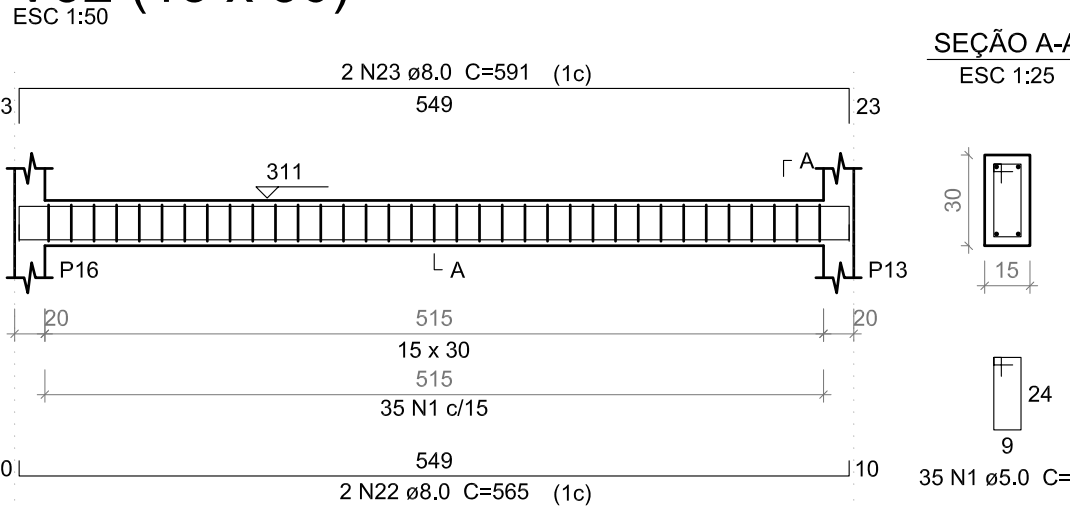
V30 (15 x 30)



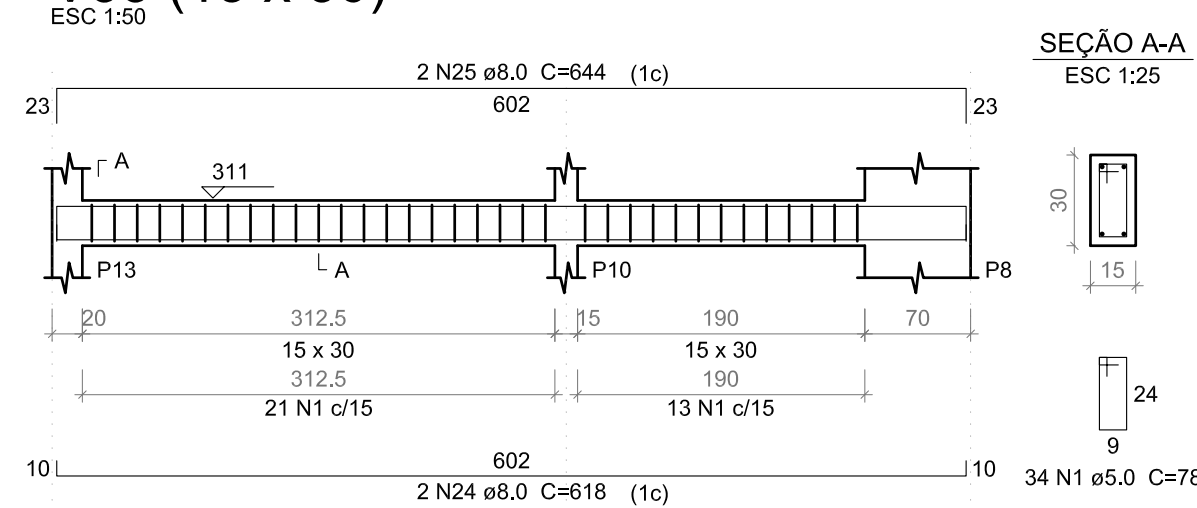
V31 (15 x 30)



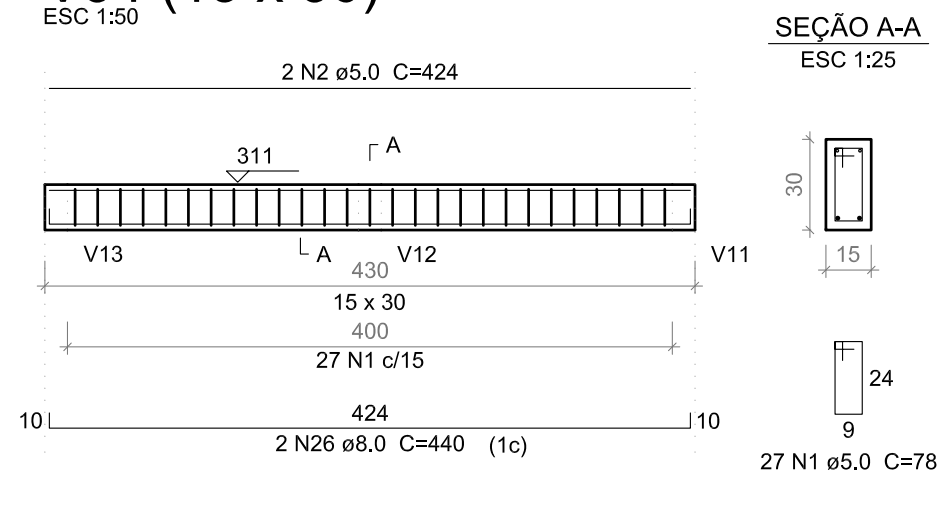
V32 (15 x 30)



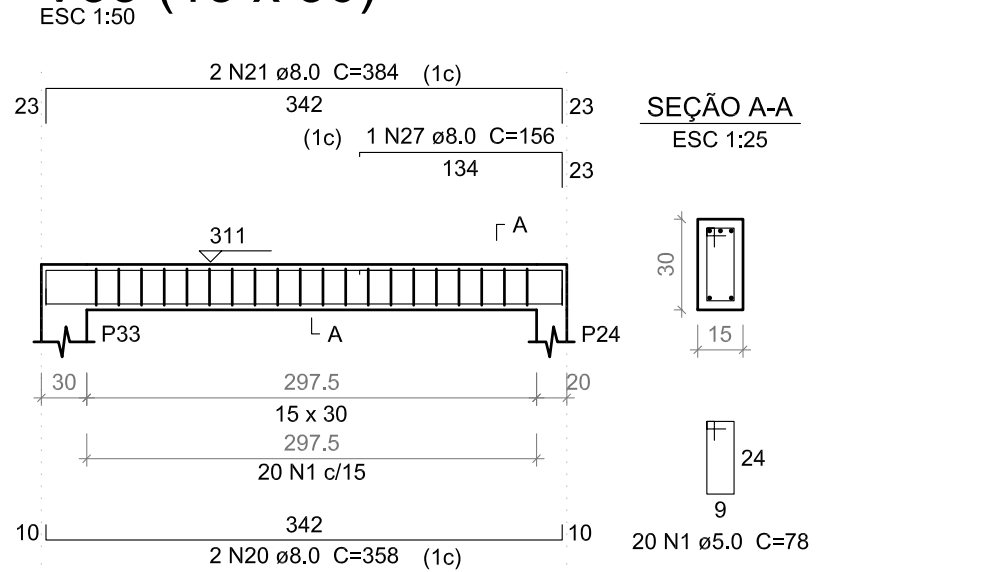
V33 (15 x 30)



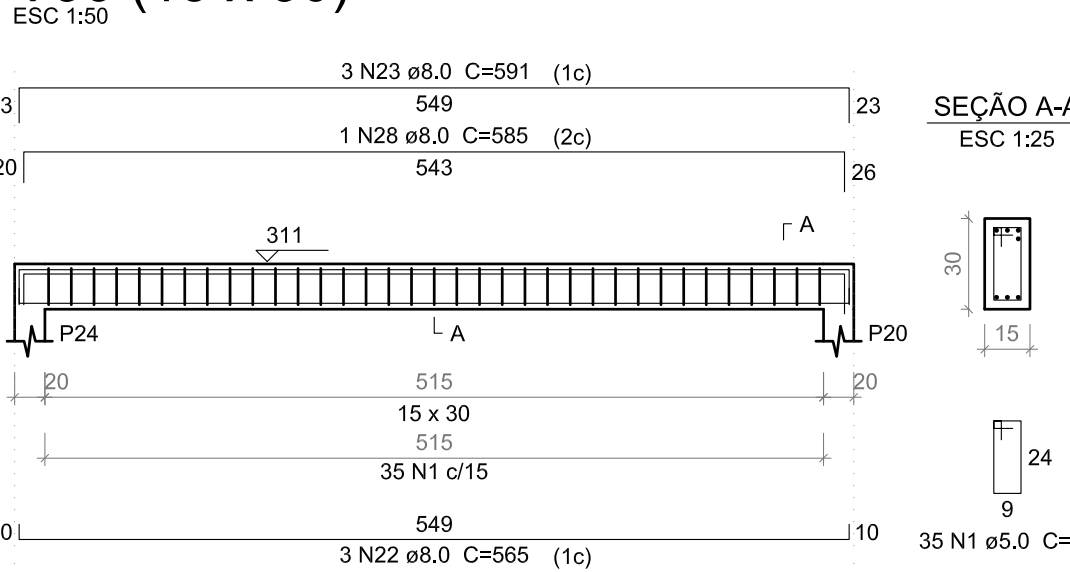
V34 (15 x 30)



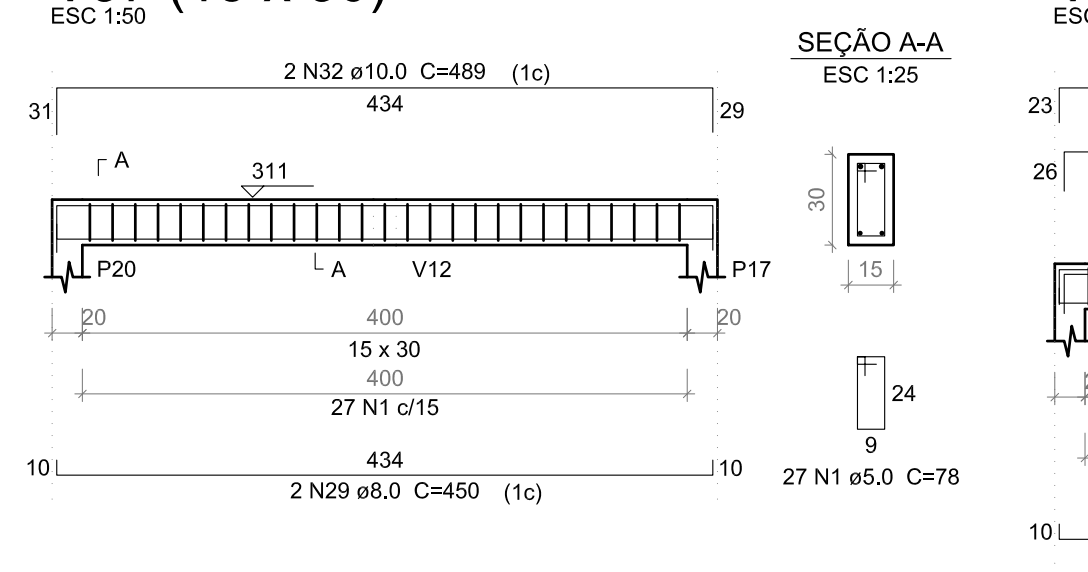
V35 (15 x 30)



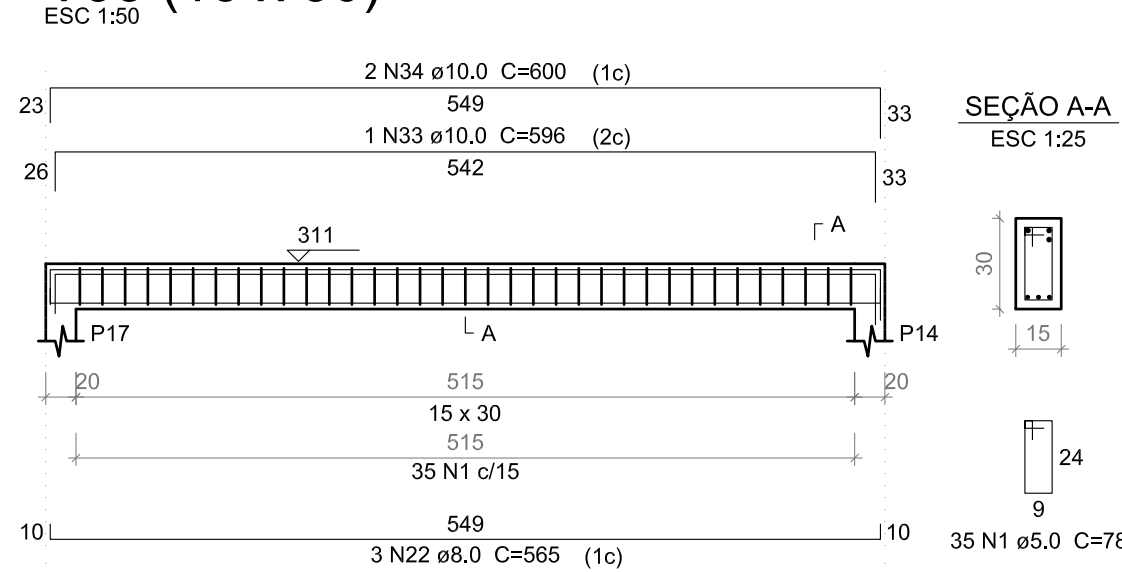
V36 (15 x 30)



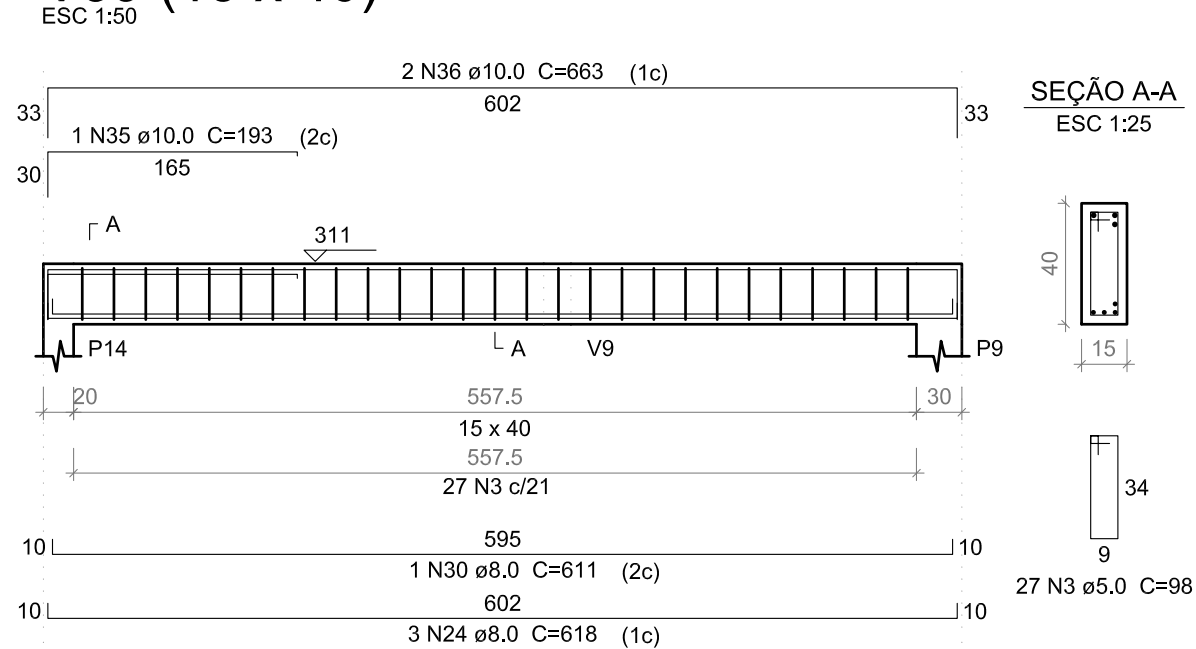
V37 (15 x 30)



V38 (15 x 30)



V39 (15 x 40)



Relação do aço

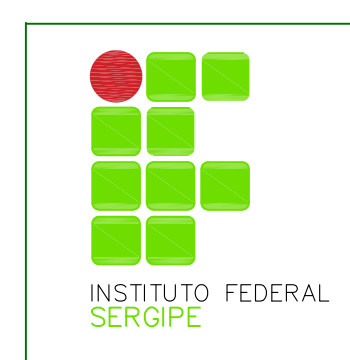
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
V14	1	5.0	709	78	55302
V17	2	5.0	2	424	848
V20	3	5.0	27	98	2646
V23	4	8.0	2	550	1100
V26	5	8.0	2	576	1152
V29	6	8.0	3	558	1674
V32	7	8.0	1	571	571
V34	8	8.0	3	594	1752
V35	9	8.0	18	555	9990
V38	10	8.0	6	569	3414
	11	8.0	18	581	10458
	12	8.0	4	363	1452
	13	8.0	4	389	1556
	14	8.0	4	294	1176
	15	8.0	4	320	1280
	16	8.0	4	308	1232
	17	8.0	4	334	1336
	18	8.0	1	709	709
	19	8.0	3	715	2145
	20	8.0	4	358	1432
	21	8.0	4	394	1536
	22	8.0	10	565	5650
	23	8.0	7	591	4137
	24	8.0	5	618	3090
	25	8.0	2	644	1288
	26	8.0	2	440	880
	27	8.0	1	156	156
	28	8.0	1	585	585
	29	8.0	2	450	900
	30	8.0	1	611	611
	31	10.0	2	557	1114
	32	10.0	2	489	978
	33	10.0	1	596	596
	34	10.0	2	600	1200
	35	10.0	1	193	193
	36	10.0	2	663	1326
	37	12.5	2	599	1198
	38	12.5	1	766	766
	39	12.5	2	773	1546

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	612.7	265.9
	10.0	54.1	36.7
	12.5	35.1	37.2
CA60	5.0	588	99.7
PESO TOTAL (kg)			
CA50	339.8		
CA60	99.7		

Volume de concreto (C-30) = 5,71 m³
Área de forma = 94,82 m²


Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



INSTITUTO FEDERAL
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3



AD
ENGENHARIA
edongenheiro.eng.br

ENDEREÇO:

Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
dipop@ifs.edu.br

TEL: (79)3711-3139

PROJETO ESTRUTURAL
CAMPUS JAPARATUBA/SE

CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS JAPARATUBA														
ENDEREÇO:	ROD. LÚCIO PRADO, S/N - JAPARATUBA/SE								ESCALA:		1:100				
									DATA:		JUN/2024				
PLANTA:	QUADRA COBERTA ARMAÇÃO DAS VIGAS INTERMEDIÁRIA										PRANCHA:		06/07		
											CAMPO:				OBRA:
J		A		P		C		A		M		E		S	
T		P		E		O		O		G		O		O	
Z		R		O		I									

