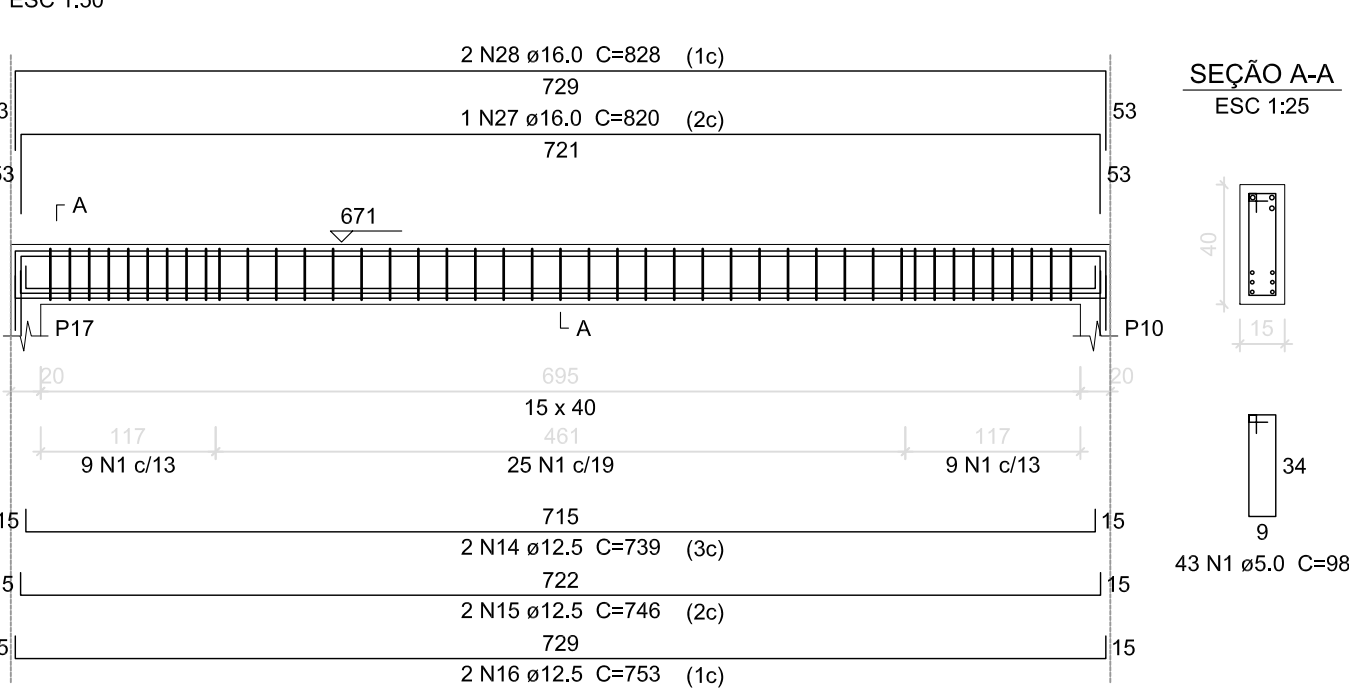
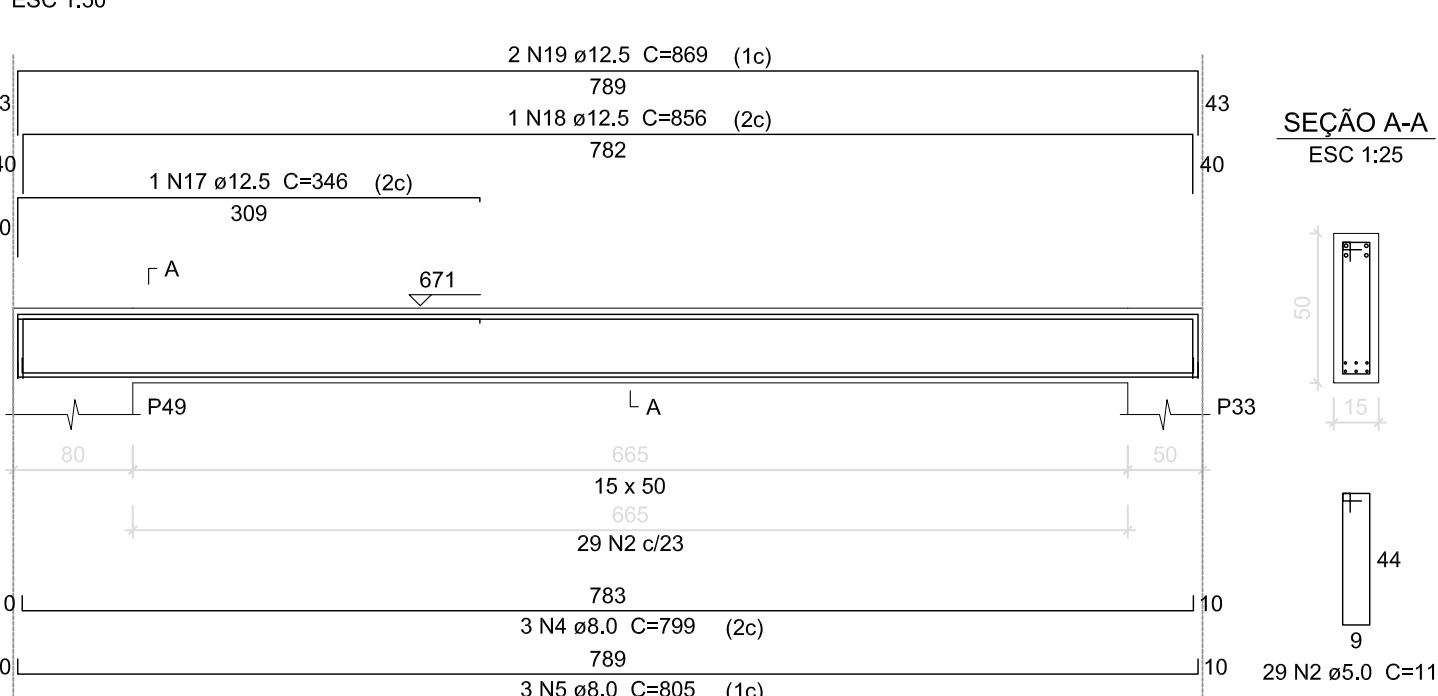


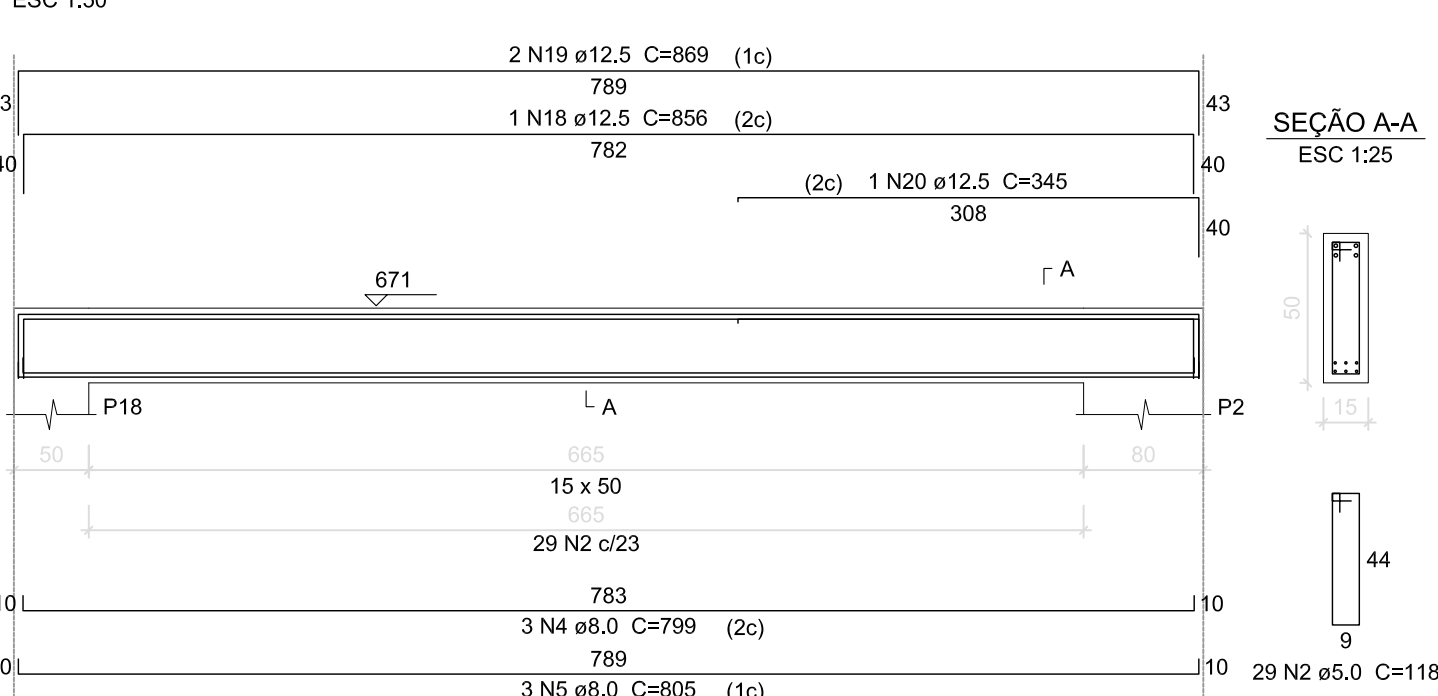
V27 (15 x 40)



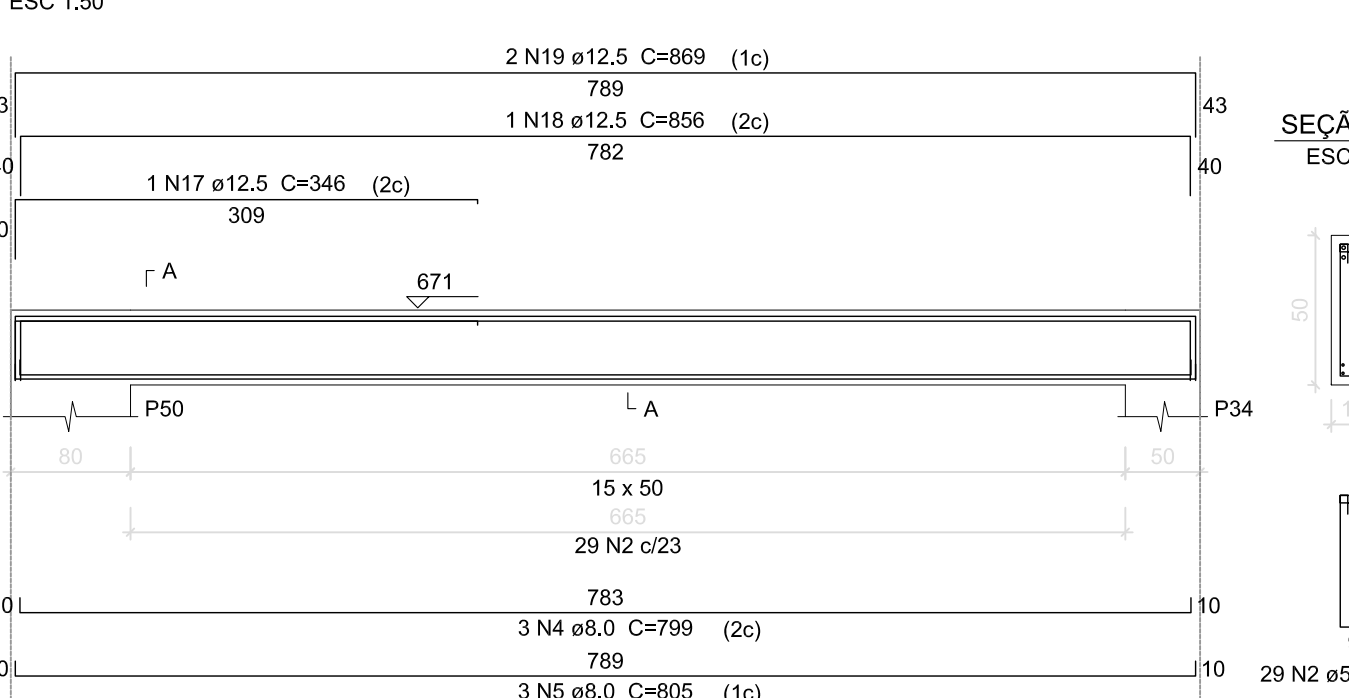
V28 (15 x 50)



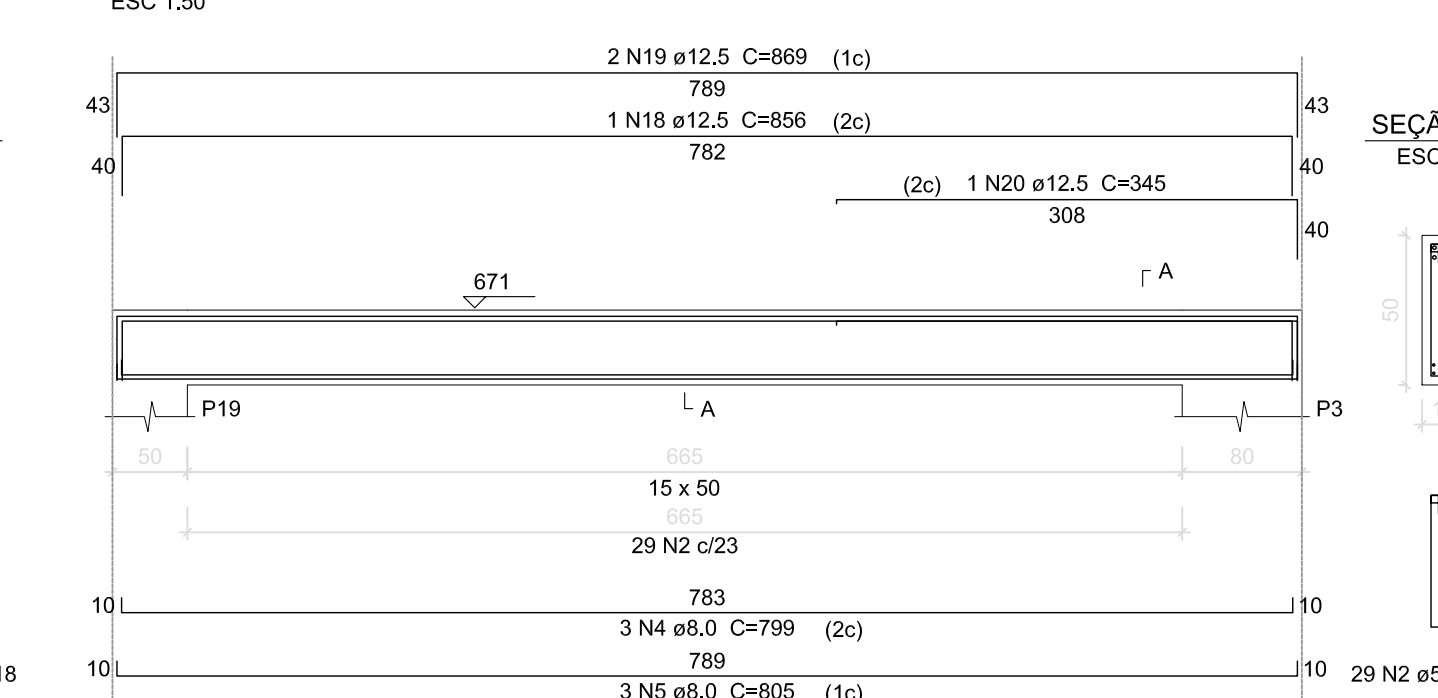
V29 (15 x 50)



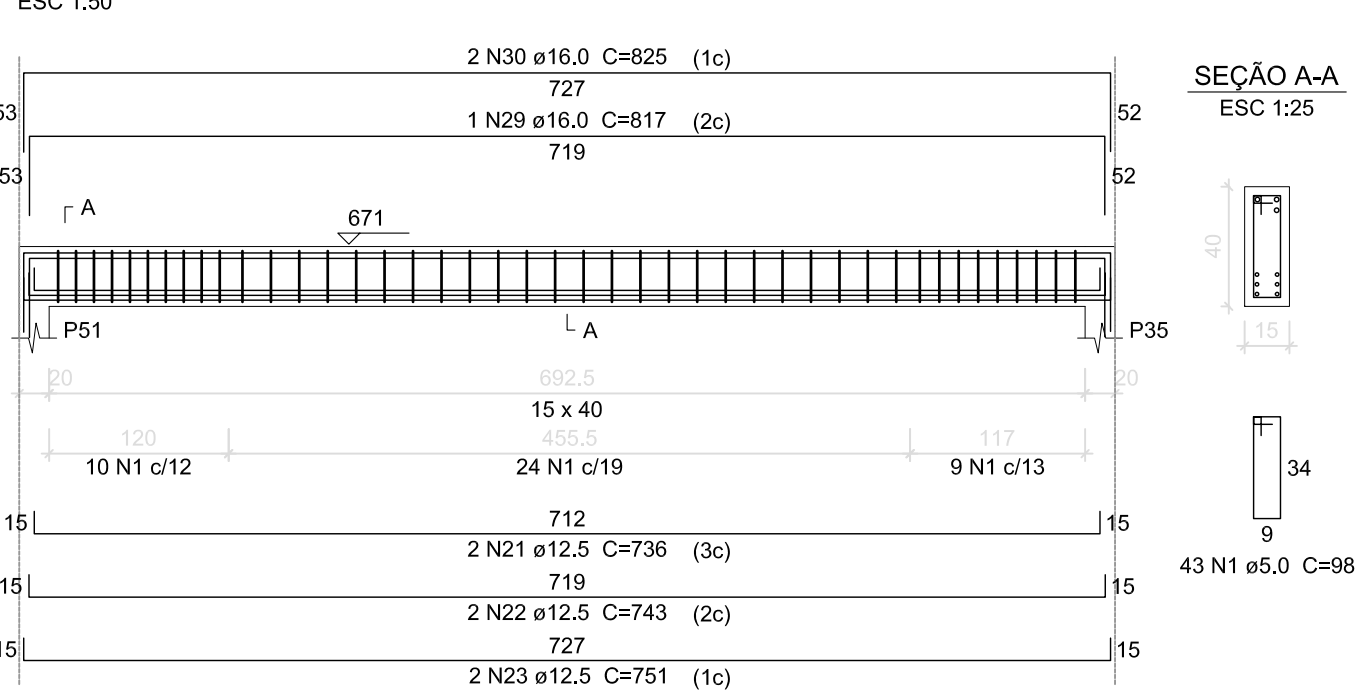
V30 (15 x 50)



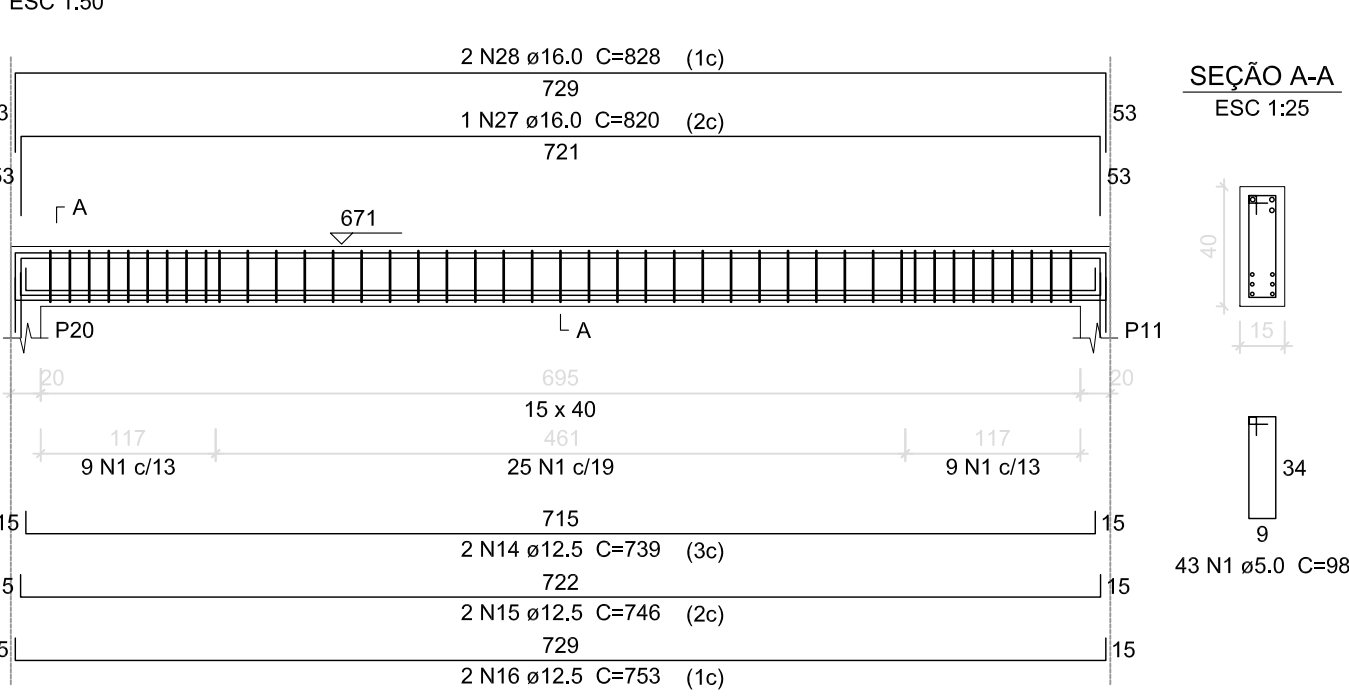
V31 (15 x 50)



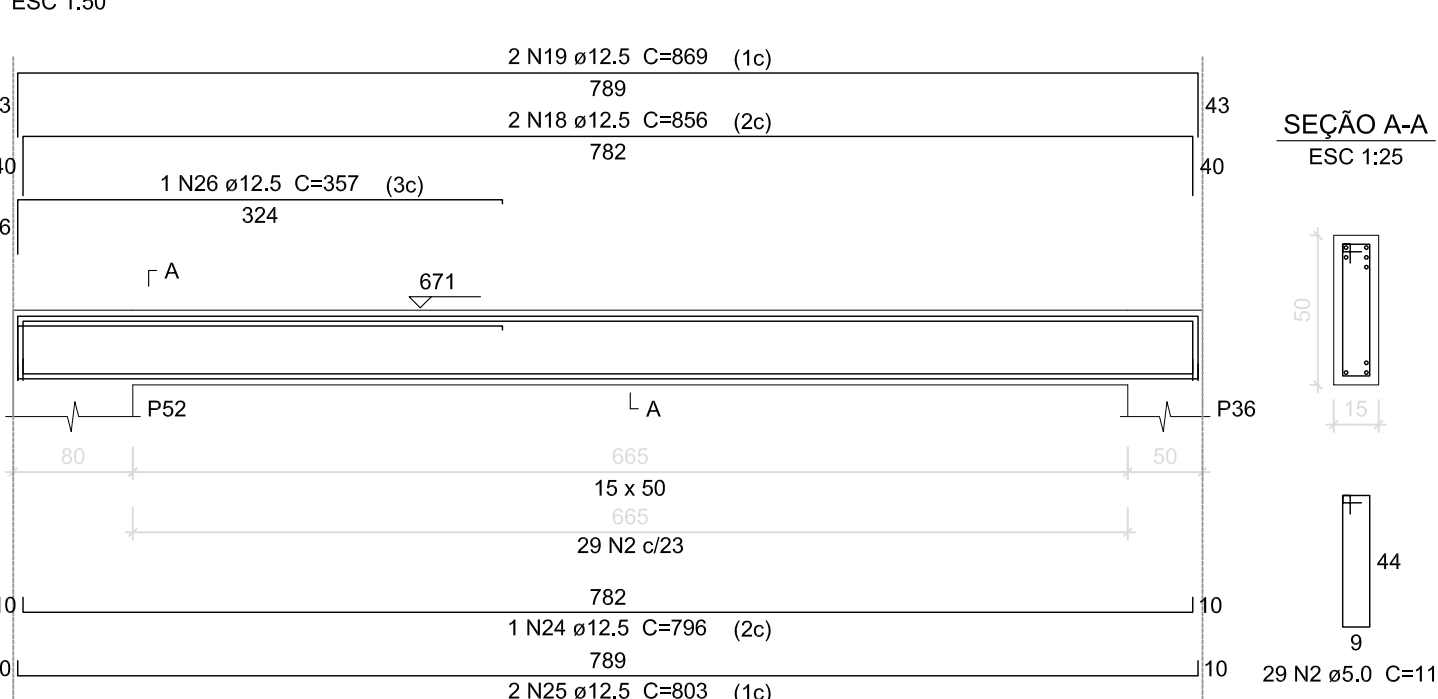
V32 (15 x 40)



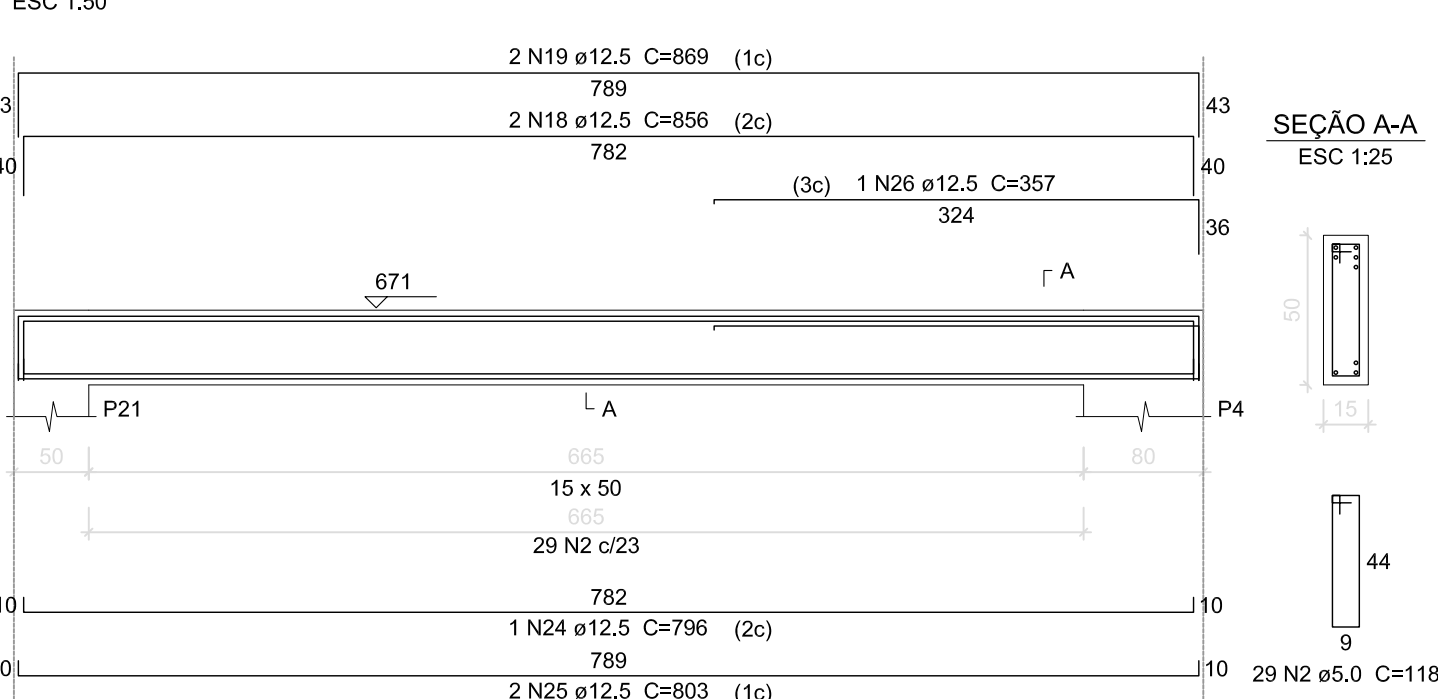
V33 (15 x 40)



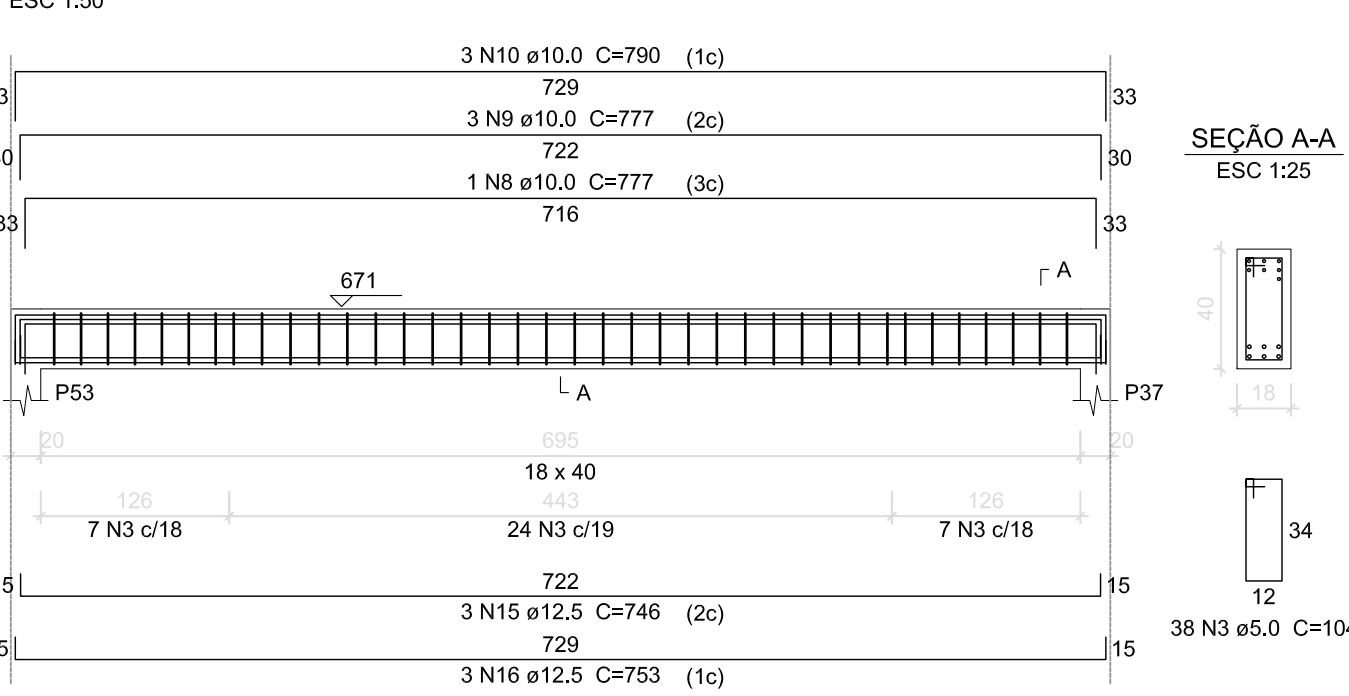
V34 (15 x 50)



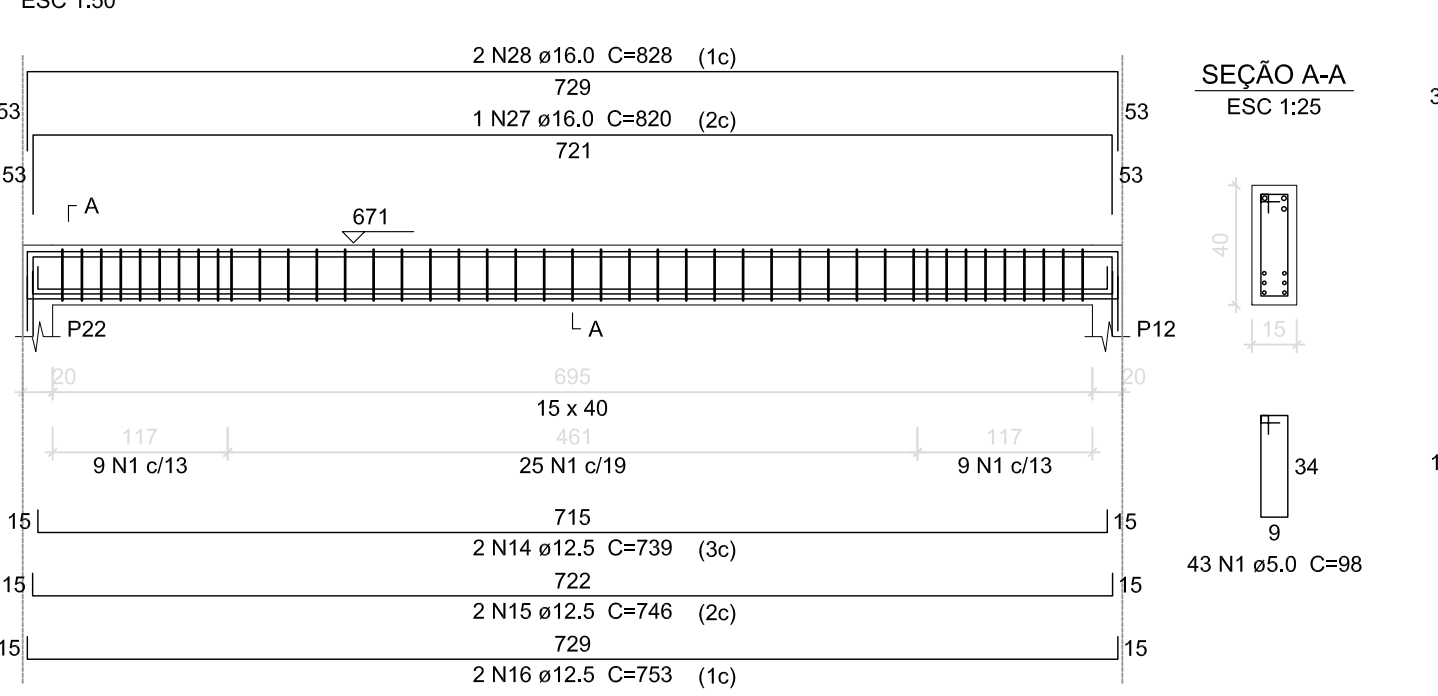
V35 (15 x 50)



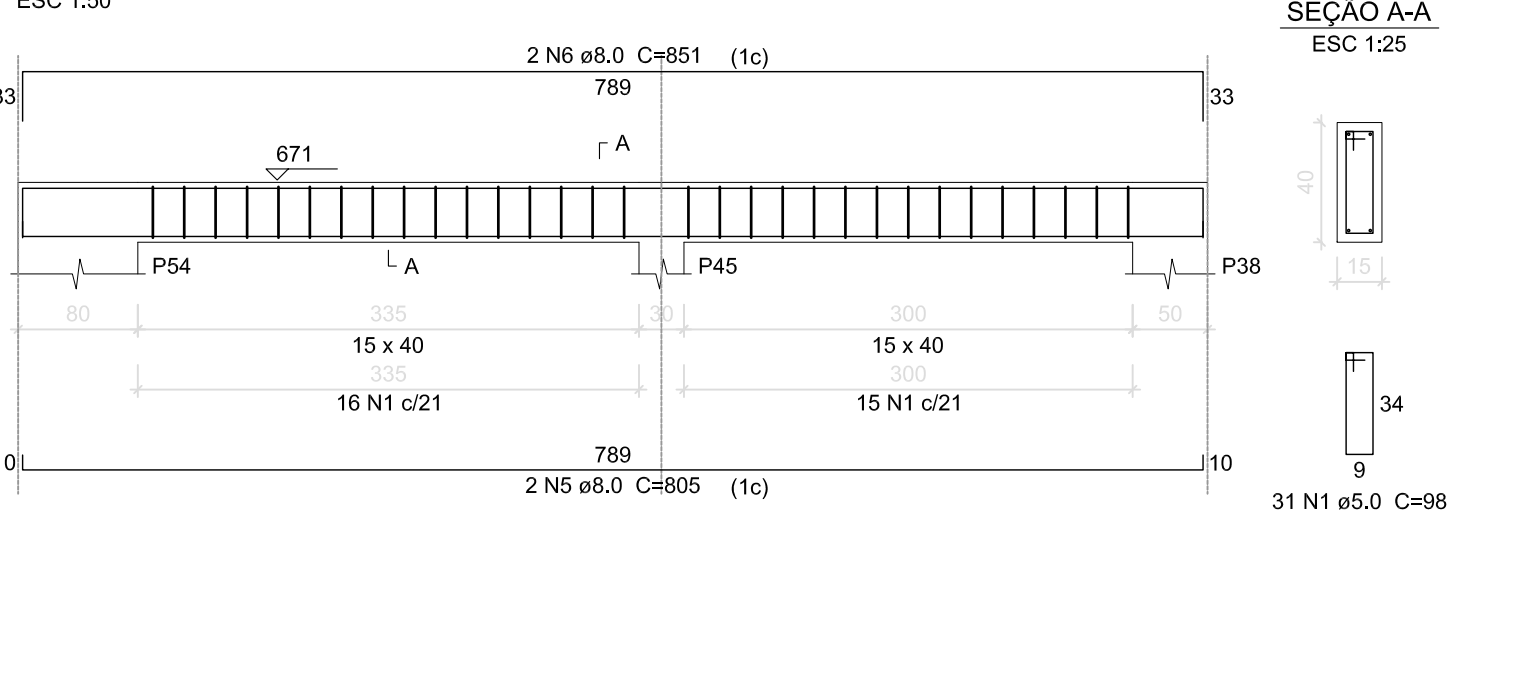
V36 (18 x 40)



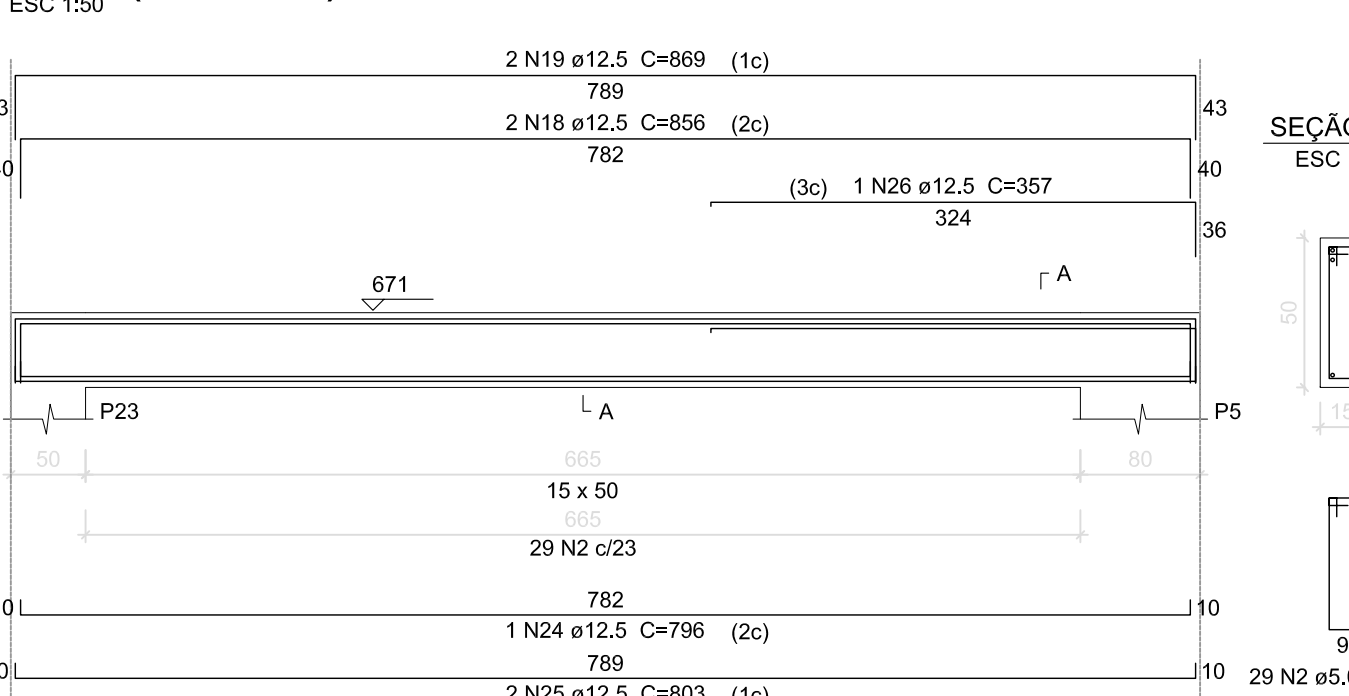
V37 (15 x 40)



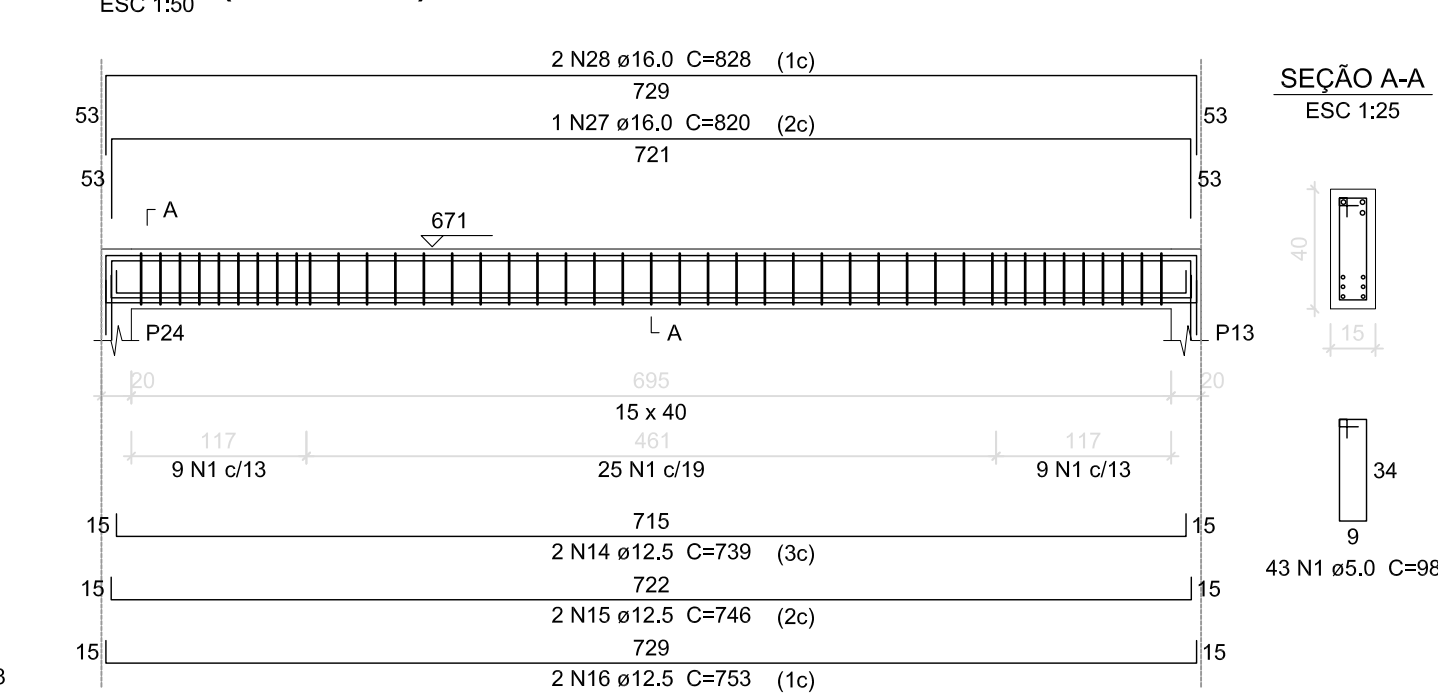
V38 (15 x 40)



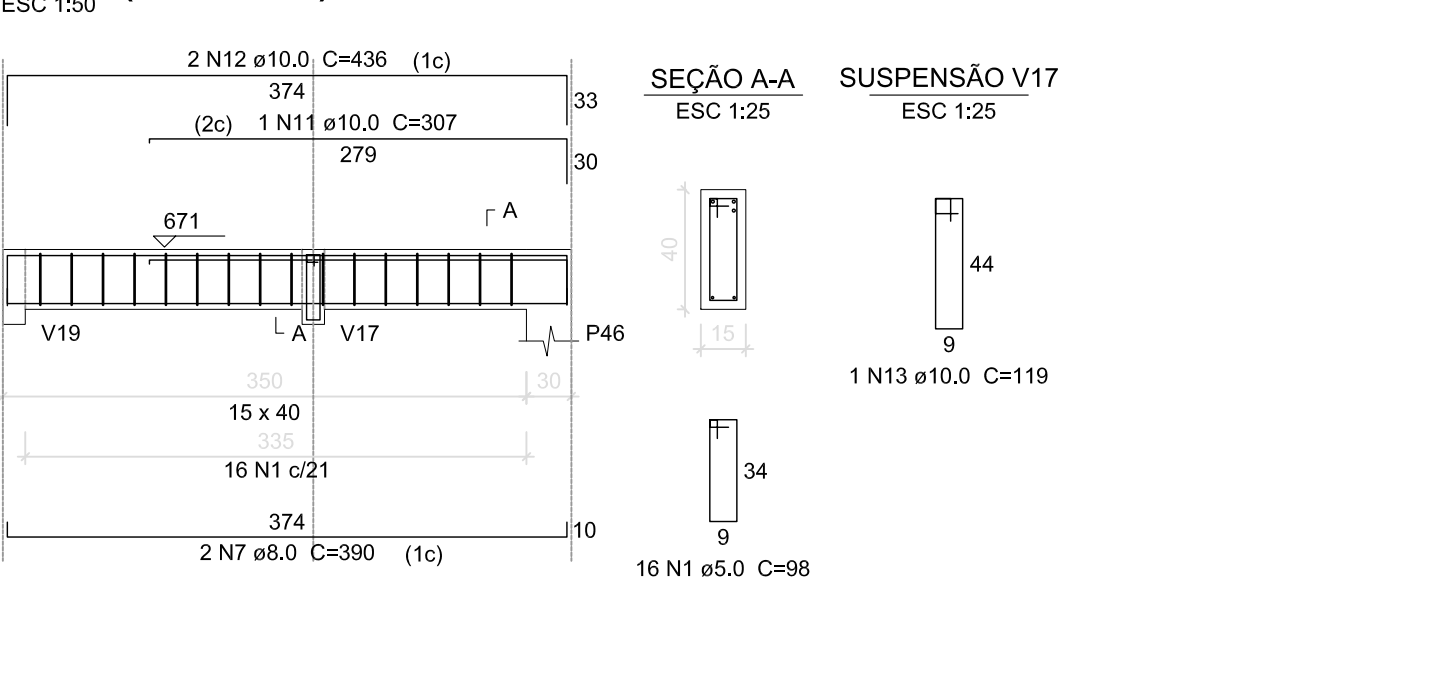
V39 (15 x 50)



V40 (15 x 40)



V41 (15 x 40)



Relação do aço


ACO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	262	98	25676
CA50	2	5.0	203	118	23954
	3	5.0	38	104	3952
	4	8.0	12	799	9588
	5	8.0	14	805	11270
	6	8.0	2	851	1702
	7	8.0	2	390	780
	8	10.0	1	777	777
	9	10.0	3	777	2331
	10	10.0	3	790	2370
	11	10.0	1	307	307
	12	10.0	2	436	872
	13	10.0	1	119	119
	14	12.5	8	739	5912
	15	12.5	11	746	8206
	16	12.5	11	753	8283
	17	12.5	2	346	692
	18	12.5	10	856	8560
	19	12.5	14	869	12166
	20	12.5	2	345	690
	21	12.5	2	736	1472
	22	12.5	2	743	1486
	23	12.5	2	751	1502
	24	12.5	3	796	2388
	25	12.5	6	803	4818
	26	12.5	3	357	1071
	27	16.0	4	820	3280
	28	16.0	8	828	6624
	29	16.0	1	817	817
	30	16.0	2	825	1650

Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	233.4	101.3
	10.0	67.8	46
	12.5	572.5	606.6
	16.0	123.8	214.8
	6.0	535.9	90.8
PESO TOTAL (kg)			
CA50	968.7		
CA60	90.8		

Volume de concreto (C=30) = 7.61 m³  
Área de forma = 117.25 m²


Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



INSTITUTO FEDERAL  
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro  
CREA 270082778-3



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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:		BLOCO SALAS DE AULA ARMAÇÃO DAS VIGAS COBERTURA 4-5				PRANCHA:		23/26
CAMPUS	OPERA	ESPECIALIDADE	FASE	SERIAL	QUANTITATIVO	REVISÃO		
JAP	CAM	EST	PE	023	026	000		

ESC 1:50



ESC 1:50



ESC 1:50



ESC 1:50



ESC 1:50



## ESC 1:5



ESC 1:50



ESC 1:50



ESC 1:50



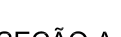
ESC 1:50



ESC 1:50

V54  
500-1-50

ESC 1:50



## SEÇÃO



ESPERA

### Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	351.5	152.6
	10.0	61.8	41.9
	12.5	391.5	414.8
	16.0	165.3	286.8
CA60	5.0	555.9	94.2

Volume de concreto (C-30) = 7.89 m<sup>3</sup>  
Área de forma = 122.71 m<sup>2</sup>



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CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS JAPARATUBA



ESCALA:	1:100
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	JUN/2024
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24/26





 <p>INSTITUTO FEDERAL SERGIPE</p>	<p>AUTOR DO PROJETO:</p> <p>Eng°. Fredrico Damasceno Pinheiro</p> <p>CREA 270082778-3</p>	 <p>adengenharla.eng.br</p>
	<p>ENDEREÇO:</p> <p>Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE</p> <p>dipop@ifrs.edu.br</p>	

INSTITUTO FEDERAL DE SERGIPE - CAMPUS JAPARUBA									
ENDEREÇO: ROD. LÚCIO PRADO, S/N - JAPARUBA/SE							ESCALA: 1:100		
PLANTA: BLOCO SALAS DE AULA FORMA PLATIBANDA							DATA: JUN/2024		
							PRANCHA: 25/26		
CAMPUS	OBRA	ESPECIALIDADE	FASE	SERIAL	QUANTITATIVO	REVISÃO			
JAP	CAM	EST	PR	025	026	000			

PLATIBANDA - L4

ESC 1:20

13 N1 ø5,0 C=78  
13 N2 ø5,0 C=24

147  
8 N19 ø10,0 C=47

150  
13 N1 ø12

671

PLATIBANDA - L4

ESC 1:20

15

20

9

14

147

4 N19 ø10.0 C=147

13 N3 ø5.0 C=58

13 N3 ø12

671

ESC 1:25

Technical drawing of a bridge section A-A, showing a plan view of a 15x20m bridge deck. The drawing includes dimensions, reinforcement details, and section labels.

**Dimensions and Reinforcement:**

- Overall dimensions: 15 x 20 m.
- Reinforcement details: 2 N8 ø8.0 C=1198 (1c), 2 N14 ø8.0 C=1084 (1c), 2 N15 ø8.0 C=170 (1c), 2 N11 ø8.0 C=1056 (1c), 2 N12 ø8.0 C=807 (1c), 2 N13 ø8.0 C=509 (1c).
- Dimensions: 1187, 39, 159, 821, 20, 500, 1047, 785, 155, 477.5, 15, 10, 285.

**Section Labels:**

- SEÇÃO A-A
- ESC 1:25
- 14
- 9
- 285 N3 ø5.0 C=58

Technical drawing of a bridge section (SEÇÃO A-A) showing a cross-section of a bridge with a width of 15 x 20. The drawing includes dimensions for various components, including the main span (1187), the approach spans (821 and 849), and the total length (1007). It also shows the number of reinforcement bars (N3) and the spacing (C) for the main span and approach spans. The drawing is labeled "SEÇÃO A-A" and "ESC 1:25".

Technical drawing of a bridge section A-A, showing a plan view of the bridge deck and cross-sections at the ends. The plan view shows a bridge deck with a total width of 28.5m, divided into three spans of 10.47m, 8.05m, and 5.00m. The bridge is supported by three piers (P84, P85, P86, P87, P88) and two abutments (A). The cross-sections show a 28.5m wide deck with a 2.85m wide sidewalk on each side. The bridge is labeled "SEÇÃO A-A" and "ESC 1:25".

Technical drawing of a bridge section A-A, showing a plan view of the bridge deck and a cross-section view.

**Plan View (Top):**

- Overall width: 24.0m (11.87m + 6.36m).
- Top reinforcement: 2 N8 ø8.0 C=1198 (1c) and 2 N18 ø8.0 C=647 (1c).
- Bottom reinforcement: 2 N16 ø8.0 C=1041 (1c) and 2 N17 ø8.0 C=776 (1c).
- Span lengths: 343.8m, 366.3m, 245m, 361.3m, 348.8m.
- Span types: 15 x 20, 15 x 20, 15 x 20, 15 x 20, 15 x 20.
- Span counts: 43 N3 c/8, 46 N3 c/8, 31 N3 c/8, 46 N3 c/8, 44 N3 c/8.
- Supports: P79, P77, P75, P73, P71, P61.
- Dimensions: 821, 1187, 636, 1032, 767.

**Cross-Section View (Bottom):**

- Section label: SEÇÃO A-A.
- Scale: ESC 1:25.
- Width: 20.0m.
- Height: 1.5m.
- Reinforcement: 210 N3 ø5.0 C=58.

**SEÇÃO A-A**  
ESC 1:25

**CLIENTE:** INSTITUTO F

**ENDEREÇO:** ROD. LÚC

**PLANTA:** BLOCO SALA  
ARMAÇÃO DAS VI

**CAMPUS:** J A P C A M E S

**OBRA:** ESPECIAL

**ESPECIFICAÇÃO:**

V2		24xP62		V1	
V5		V6		V4	
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	52	78	4056
	2	5.0	52	24	1248
CA50	3	5.0	2066	58	119828
	4	8.0	4	1016	4064
	5	8.0	4	522	2088
	6	8.0	4	812	3248
	7	8.0	4	826	3304
	8	8.0	12	1198	14376
	9	8.0	4	866	3464
	10	8.0	4	1056	4224
	12	8.0	4	1087	3228
	13	8.0	4	509	2036
14	8.0	4	804	4336	
15	8.0	4	170	680	
16	8.0	4	1041	4164	
17	8.0	4	776	3104	
18	8.0	4	647	2588	
19	10.0	128	147	18816	

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8,0	597,1	259,1
	10,0	188,2	127,6
CA60	5,0	1251,4	212,2
PESO TOTAL (kg)			
CA50	386,7		
CA60	212,2		

Volume de concreto (C-30) = 5.74 m<sup>3</sup>  
Área de forma = 111.15 m<sup>2</sup>

SEÇÃO A-A  
ESC 1:25

20  
15

14  
9

382 N3 ø5.0 C=58

SEÇÃO A-A  
ESC 1:25

285 N3 Ø5.0 C=58

SEÇÃO A-A  
ESC 1:25

Technical drawing of a rectangular plate. The top view shows a rectangle with dimensions 20 (height) and 15 (width). The side view shows a rectangle with dimensions 14 (height) and 9 (width). The plate is labeled with '382 N3 ø5.0 C=58'.

SEÇÃO A-A  
ESC 1:25

Technical drawing of the 285 N3 ø5.0 C=58 ball bearing. The front view shows an outer diameter of 20 and an inner diameter of 15. The side view shows a width of 14 and a height of 9.

SEÇÃO A-A  
ESC 1:25

Technical drawing of a rectangular plate. The top view shows a rectangle with dimensions 20 (height) and 15 (width). The bottom view shows a rectangle with dimensions 9 (width) and 14 (height). The plate is labeled with dimensions 9 and 14.

SEÇÃO A-A  
ESC 1:25

210 N3 ø5.0 C=5

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PROJETO ESTRUTURAL  
CAMPUS JAPARATUBA/SE

CLIENTE:

INSTITUTO FEDERAL DE SERGIPE - CAMPUS JAPARATUBA

ENDEREÇO:

ROD. LÚCIO PRADO, S/N - JAPARATUBA/SE

ESCALA: 1:100

PLANTA

PLANTA: BLOCO SALAS DE AULA  
ARMAÇÃO DAS VIGAS E PILARES PLATIBANDA

PRANCHA:

CAMPUS:	OBRA:	ESPECIALIDADE:	FASE:	SERIAL:	QUANTITATIVO:	REVISÃO:													
J	A	P	C	A	M	E	S	T	P	E	0	2	6	0	2	6	R	0	0

26/26