

Technical drawing of a bridge structure showing three spans. The drawing includes dimensions for spans (659, 419, 645), pier widths (25, 35, 405), and various reinforcement details (N1, N2, N3, N4, N5, N6, N7, N8, N9, N10) with diameters and spacings. It also shows cross-sections A-A and B-B, and a longitudinal section C-C. The structure is supported by piers P27, P28, and P29.

Technical drawing of a bridge cross-section (Corte A-A) showing a three-span continuous beam structure. The drawing includes dimensions for spans (210, 165, 159), support widths (115, 159), and reinforcement details (N1, N2, N3, N4, N5, N6, N7, N8, N9). It also shows the profile of the bridge deck (P31 to P34) and the reinforcement layout for the deck and piers. The reinforcement is specified as 2 N1 Ø 6.3 C=280, 2 N2 Ø 10 C=200, 2 N3 Ø 12.5 C=680, 2 N4 Ø 12.5 C=620, 2 N5 Ø 10 C=320, 2 N6 Ø 12.5 C=600, 28 Ø 5 C/20 N7 (554), and 28 Ø 5 C/20 N8 (554). The deck width is 6.0m, and the total width including piers is 6.9m. The drawing is labeled "Corte A-A" and "69 N7 Ø 5 C=130".

Technical drawing of a bridge deck cross-section showing reinforcement details. The drawing includes top and bottom reinforcement bars with their respective diameters, spacings, and lengths. Vertical dimensions indicate the height of the concrete deck and the position of the reinforcement. Section lines A-A and B-B are shown.

Top Reinforcement:

- 2 N1 $\varnothing$ 10 C=150 (Length: 129)
- 2 N2 $\varnothing$ 6.3 C=280 (Length: 80)
- 2 N4 $\varnothing$ 8 C=540 (Length: 170)
- 2 N5 $\varnothing$ 6.3 C=240 (Length: 110)
- 2 N6 $\varnothing$ 8 C=600 (Length: 170)
- 2 N8 $\varnothing$ 10 C=200 (Length: 179)

Bottom Reinforcement:

- 2 N3 $\varnothing$ 8 C=780 (Length: 760)
- 2 N4 $\varnothing$ 8 C=540 (Length: 400)
- 2 N7 $\varnothing$ 8 C=620 (Length: 400)

Vertical Dimensions:

- 41. $\varnothing$ 5 C/12 NS (485)
- 17. $\varnothing$ 5 C/12 NS (205)
- 39. $\varnothing$ 5 C/12 NS (465)
- 19. $\varnothing$ 5 C/12 NS (226)
- 25. $\varnothing$ 5 C/12 NS (336)

Section Lines:

- A-A (Vertical section line)
- B-B (Horizontal section line)

The drawing consists of a plan view and a cross-section. The plan view shows a bridge with five piers (P48 to P52) and spans with dimensions like 22.5 x 5 C/20, 13.5 x 5 C/20, 20.5 x 5 C/20, and 20.5 x 5 C/20. The cross-section shows a rectangular bridge deck with dimensions 15, 50, 44, and 9, and reinforcement details like 2 N1 Ø 10, 1 N3 Ø 10, 2 N2 Ø 10, and 1 N3 Ø 10.

The drawing consists of two parts: a plan view and a cross-section labeled 'Corte A'.

Plan View:

- Span 1 (P41 to P42):** Length 760. Reinforcement: 2 N1 ϕ 10 C=800, 1 N3 ϕ 10 C=160, 1 N3 ϕ 10 (1 ϕ 20CAM). Pier P42: 22 ϕ 5 C/20 NR (x35).
- Span 2 (P42 to P43):** Length 819. Reinforcement: 2 N2 ϕ 10 C=860, 1 N4 ϕ 10 (1 ϕ 20CAM). Pier P43: 15 ϕ 5 C/20 NR (x60).
- Span 3 (P43 to P44):** Length 819. Reinforcement: 2 N2 ϕ 10 C=860, 1 N4 ϕ 10 (1 ϕ 20CAM). Pier P44: 20 ϕ 5 C/20 NR (x80).
- Span 4 (P44 to P45):** Length 819. Reinforcement: 2 N2 ϕ 10 C=860, 1 N4 ϕ 10 (1 ϕ 20CAM). Pier P45: 20 ϕ 5 C/20 NR (x80).
- Span 5 (P45 to End):** Length 485. Reinforcement: 2 N5 ϕ 12.5 C=500.
- Span 6 (End to P46):** Length 825. Reinforcement: 2 N7 ϕ 12.5 C=840.

Corte A: A cross-section of the bridge pier, showing a rectangular shape with dimensions 15 (width) and 4.4 (height). Reinforcement details include 15 ϕ 5 C/20 NR (x35) and 2 ϕ 10 C=160.

Technical drawing of a beam cross-section and elevation. The top part shows a cross-section 'Corte A-A' with dimensions: 15 cm height, 8 cm flange width, 4 cm web thickness, and 2x2 Ø 6.3 mm reinforcement. The middle part shows a side elevation with dimensions: 279 cm total length, 220 cm distance between supports, 119 cm distance from support to end, and reinforcement details: 2 N2 Ø 8 C=300, 2 N1 Ø 8 C=300, 2 N3 Ø 8 C=140, 53 Ø 5 C=112 N2 (137), 2x2 N6 Ø 6.3 C=685, and 2 N4 Ø 8 C=675. The bottom part shows a reinforcement detail for a 2x2 N6 Ø 6.3 C=675 bar.

Technical drawing of a bridge structure, showing a plan view and a cross-section.

Plan View (Top):

- Overall length: 605
- Span lengths: 209 (each)
- Span gaps: 160 (each)
- Supports: P53, P54, P55, P56
- Reinforcement details:
 - 2 N2 ϕ 12.5 C=250
 - 2 N1 ϕ 10 C=220
 - 2 N3 ϕ 12.5 C=680
 - 2 N4 ϕ 10 C=240
 - 2 N5 ϕ 12.5 C=620
 - 2 N6 ϕ 10 C=320
 - 2 N7 ϕ 12.5 C=620
 - 2 N8 ϕ 6.3 C=600
 - 2 N9 ϕ 6.3 C=300
 - 2 N10 ϕ 6.3 C=580
 - 2 N11 ϕ 6.3 C=580
 - 2 N12 ϕ 6.3 C=580
 - 2 N13 ϕ 6.3 C=580
 - 2 N14 ϕ 6.3 C=580
 - 2 N15 ϕ 6.3 C=580
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50A	1	8	2	350	700
50A	2	8	2	300	600
50A	3	8	2	140	280
50A	4	8	2	675	1350
60A	5	5	53	90	4770
50A	6	6.3	4	685	2740

RESUMO DE AÇO			
AÇO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	1063	164
50A	6,3	138	34
50A	8	91	36
50A	10	142	88
50A	12,5	192	185
Peso Total	60A =		164 kgf
Peso Total	50A =		342 kgf

04	REVISÃO DA FACHADA	DL	14/08/2024
03	REVISÃO VIGAS V47,V48 E V51 DO CINTAMENTO	DL	13/12/2023
02	REVISÃO GERAL	DL	18/09/2023
01	CORREÇÃO DAS VIGAS DO CINTAMENTO	DL	11/07/2023

REVISÃO	ASSUNTO	DESENHO	DATA
PAGO	APROVO	PROPRIETÁRIO	PROJETO
		PROJETO	CONSTRUÇÃO

CONSELHO PROFISSIONAL

SOP-CE
SUPERINTENDÊNCIA
DE OBRAS PÚBLICAS



GOVERNO DO
ESTADO DO CEARÁ
Secretaria das Cidades

SECRETARIA DAS CIDADES
SOP - SUPERINTENDÊNCIA DE OBRAS PÚBLICAS

PROJETO: **CENTRO DE EDUCAÇÃO**
PADRÃO 6 SALAS

INTERESSADO: SEDUC

ENDEREÇO: _____ ETAPA: EXECUTIVO

MUNICÍPIO: ARMAZÉM DA COBERTA

CE	ARM. VIGAS DA COBERTA (V8,V9,V10,V11,V12,V13,V14)
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AUTOR: _____ CREA: _____
TELEFONO: _____ EMAIL: _____
MISER: _____ DATA: _____

AUTORE: _____ CREA: _____
TELEFONO: _____ EMAIL: _____

RESERVA DE PROPRIEDADE INTELECTUAL	DESENHO: DL	PRANCI
	DATA: 14/09/2024	

A PROPRIEDADE INTELECTUAL DO PRESENTE PROJETO É RESERVADA AOS SEUS AUTORES, DE ACORDO COM A LEGISLAÇÃO PERTINENTE. O USO DESTES PROJETO OU DE QUALQUER DE SEUS ELEMENTOS, QUE NÃO FORAM OS DETERMINADOS, SERÃO CONSIDERADOS COMO APROPRIAÇÃO

LÍCITA E SERÃO APLICADAS AS LEIS QUE DEFENDEM DITOS DIREITOS A TODOS OS EFEITOS

EST-CO-06-01-PADRAO 2023 6 SALAS R4.dwg

Fck:	≥ 30MPa
E _{di} :	≥ 30,7GPa
Cobrimentos:	
LAJES	- 2,5cm
VIGAS	- 3,0cm
PILARES	- 3,0cm
FUNDAÇÕES	- 4,0cm
Faixa de Agressividade Ambiental:	
MODERADA	

PRANCI

14
