

Vol. de concreto total (C-25) = 82,51 m³
Área de forma total = 936,77 m²

V 6
 Escala 1:50

Corte A
 Escala 1:20

7
Escala 1:50

Technical drawing of a bridge structure, showing a plan view and a cross-section (Corte A).

Plan View:

- Structure: Bridge with four piers (P41, P45, P46, P47) and three spans.
- Dimensions (m):
 - Span 1: 29m1075c/18
 - Span 2: 29m1075c/18
 - Span 3: 19m1075c/18
 - Total length: 77m
- Bridge width: 20x40
- Clearance/height: 2m4610 C=135, 2m3010 C=190, 2m2908 C=1044, 2m2910 C=110, 2m3010 C=96

Corte A (Cross-section):

- Structure: Rectangular cross-section of the bridge.
- Dimensions (m):
 - Width: 20
 - Height: 40
- Label: Corte A, Escala 1:20

[illegible]

2 Escala 1:50

Technical drawing of a reinforced concrete beam (Corte A) showing a cross-section of 20x40 cm. The beam is supported by four columns (P17, P18, P19, P20) with a total length of 1380 cm. The drawing includes reinforcement details and dimensions for the beam and columns.

Reinforcement details for the beam:

- Top reinforcement: 2x10mm C=135, 2x12mm C=220, 2x16mm C=160, 2x18mm C=305, 2x20mm C=80
- Bottom reinforcement: 2x10mm C=1035, 2x12mm C=285, 2x16mm C=110
- Stirrups: 2x10mm C=135, 2x12mm C=220, 2x16mm C=160, 2x18mm C=305, 2x20mm C=80

Dimensions and labels:

- Beam cross-section: 20x40 cm
- Column cross-section: 20x40 cm
- Span lengths: 310 cm, 500 cm, 290 cm, 280 cm
- Labels: P17, P18, P19, P20, Corte A, Escala 1:20

3
Escala 1:50

PIA PIB PIC PID

24x10 C75 24x10 C110 24x10 C110 24x10 C75

99 99 99 99

24x28 C175 24x10 C105 24x10 C75

99 99 99

20x40 20x40 20x40

15x16M5C/18 14x16M5C/18 13x16M5C/18

250 250 250

42M5C/110

Corte A

20

80

15

Escala 1:50

5
Escala 1:50

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

Plan View (Top):

- Scale: 1:50
- Structure: Bridge with four spans, each 10.00m long, supported by five piers (P18, P31, P32, P33, P34).
- Dimensions: Total length 100.00m. Pier spacing: 10.00m, 10.00m, 10.00m, 10.00m.
- Labels: P18, P31, P32, P33, P34, 20x40, 20x40, 20x40, 20x40.
- Notes: 2x1095C/18, 2x1095C/18, 2x1095C/18, 2x1095C/18.

Cross-Section A-A (Right):

- Scale: 1:20
- Structure: Rectangular bridge deck.
- Dimensions: Width 20.00m, Height 10.00m.
- Labels: Corte A, 20, 10, 100x95 C=110.

Elemento	Pos	Id	Q	Q ₁	Q ₂	Q ₃	Q ₄	Q ₅	Q ₆	Q ₇	Q ₈	Q ₉	Q ₁₀	Q ₁₁	Q ₁₂	Q ₁₃	Q ₁₄	Q ₁₅	Q ₁₆	Q ₁₇	Q ₁₈	Q ₁₉	Q ₂₀	Q ₂₁	Q ₂₂	Q ₂₃	Q ₂₄	Q ₂₅	Q ₂₆	Q ₂₇	Q ₂₈	Q ₂₉	Q ₃₀	Q ₃₁	Q ₃₂	Q ₃₃	Q ₃₄	Q ₃₅	Q ₃₆	Q ₃₇	Q ₃₈	Q ₃₉	Q ₄₀	Q ₄₁	Q ₄₂	Q ₄₃	Q ₄₄	Q ₄₅	Q ₄₆	Q ₄₇	Q ₄₈	Q ₄₉	Q ₅₀	Q ₅₁	Q ₅₂	Q ₅₃	Q ₅₄	Q ₅₅	Q ₅₆	Q ₅₇	Q ₅₈	Q ₅₉	Q ₆₀	Q ₆₁	Q ₆₂	Q ₆₃	Q ₆₄	Q ₆₅	Q ₆₆	Q ₆₇	Q ₆₈	Q ₆₉	Q ₇₀	Q ₇₁	Q ₇₂	Q ₇₃	Q ₇₄	Q ₇₅	Q ₇₆	Q ₇₇	Q ₇₈	Q ₇₉	Q ₈₀	Q ₈₁	Q ₈₂	Q ₈₃	Q ₈₄	Q ₈₅	Q ₈₆	Q ₈₇	Q ₈₈	Q ₈₉	Q ₉₀	Q ₉₁	Q ₉₂	Q ₉₃	Q ₉₄	Q ₉₅	Q ₉₆	Q ₉₇	Q ₉₈	Q ₉₉	Q ₁₀₀	Q ₁₀₁	Q ₁₀₂	Q ₁₀₃	Q ₁₀₄	Q ₁₀₅	Q ₁₀₆	Q ₁₀₇	Q ₁₀₈	Q ₁₀₉	Q ₁₁₀	Q ₁₁₁	Q ₁₁₂	Q ₁₁₃	Q ₁₁₄	Q ₁₁₅	Q ₁₁₆	Q ₁₁₇	Q ₁₁₈	Q ₁₁₉	Q ₁₂₀	Q ₁₂₁	Q ₁₂₂	Q ₁₂₃	Q ₁₂₄	Q ₁₂₅	Q ₁₂₆	Q ₁₂₇	Q ₁₂₈	Q ₁₂₉	Q ₁₃₀	Q ₁₃₁	Q ₁₃₂	Q ₁₃₃	Q ₁₃₄	Q ₁₃₅	Q ₁₃₆	Q ₁₃₇	Q ₁₃₈	Q ₁₃₉	Q ₁₄₀	Q ₁₄₁	Q ₁₄₂	Q ₁₄₃	Q ₁₄₄	Q ₁₄₅	Q ₁₄₆	Q ₁₄₇	Q ₁₄₈	Q ₁₄₉	Q ₁₅₀	Q ₁₅₁	Q ₁₅₂	Q ₁₅₃	Q ₁₅₄	Q ₁₅₅	Q ₁₅₆	Q ₁₅₇	Q ₁₅₈	Q ₁₅₉	Q ₁₆₀	Q ₁₆₁	Q ₁₆₂	Q ₁₆₃	Q ₁₆₄	Q ₁₆₅	Q ₁₆₆	Q ₁₆₇	Q ₁₆₈	Q ₁₆₉	Q ₁₇₀	Q ₁₇₁	Q ₁₇₂	Q ₁₇₃	Q ₁₇₄	Q ₁₇₅	Q ₁₇₆	Q ₁₇₇	Q ₁₇₈	Q ₁₇₉	Q ₁₈₀	Q ₁₈₁	Q 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₅₁₄	Q ₅₁₅	Q ₅₁₆	Q ₅₁₇	Q ₅₁₈	Q ₅₁₉	Q ₅₂₀	Q ₅₂₁	Q ₅₂₂	Q ₅₂₃	Q ₅₂₄	Q ₅₂₅	Q ₅₂₆	Q ₅₂₇	Q ₅₂₈	Q ₅₂₉	Q ₅₃₀	Q ₅₃₁	Q ₅₃₂	Q ₅₃₃	Q ₅₃₄	Q ₅₃₅	Q ₅₃₆	Q ₅₃₇	Q ₅₃₈	Q ₅₃₉	Q ₅₄₀	Q ₅₄₁	Q ₅₄₂	Q ₅₄₃	Q ₅₄₄	Q ₅₄₅	Q ₅₄₆	Q ₅₄₇	Q ₅₄₈	Q ₅₄₉	Q ₅₅₀	Q ₅₅₁	Q ₅₅₂	Q ₅₅₃	Q ₅₅₄	Q ₅₅₅	Q ₅₅₆	Q ₅₅₇	Q ₅₅₈	Q ₅₅₉	Q ₅₆₀	Q ₅₆₁	Q ₅₆₂	Q ₅₆₃	Q ₅₆₄	Q ₅₆₅	Q ₅₆₆	Q ₅₆₇	Q ₅₆₈	Q ₅₆₉	Q ₅₇₀	Q ₅₇₁	Q ₅₇₂	Q ₅₇₃	Q ₅₇₄	Q ₅₇₅	Q ₅₇₆	Q ₅₇₇	Q ₅₇₈	Q ₅₇₉	Q ₅₈₀	Q ₅₈₁	Q ₅₈₂	Q ₅₈₃	Q ₅₈₄	Q ₅₈₅	Q ₅₈₆	Q ₅₈₇	Q ₅₈₈	Q ₅₈₉	Q ₅₉₀	Q ₅₉₁	Q ₅₉₂	Q ₅₉₃	Q ₅₉₄	Q ₅₉₅	Q ₅₉₆	Q ₅₉₇	Q ₅₉₈	Q ₅₉₉	Q ₆₀₀	Q ₆₀₁	Q ₆₀₂	Q ₆₀₃	Q ₆₀₄	Q ₆₀₅	Q ₆₀₆	Q ₆₀₇	Q ₆₀₈	Q ₆₀₉	Q ₆₁₀	Q ₆₁₁	Q ₆₁₂	Q ₆₁₃	Q ₆₁₄	Q ₆₁₅	Q ₆₁₆	Q ₆₁₇	Q ₆₁₈	Q ₆₁₉	Q ₆₂₀	Q ₆₂₁	Q ₆₂₂	Q ₆₂₃	Q ₆₂₄	Q ₆₂₅	Q ₆₂₆	Q ₆₂₇	Q ₆₂₈	Q ₆₂₉	Q ₆₃₀	Q ₆₃₁	Q ₆₃₂	Q ₆₃₃	Q ₆₃₄	Q ₆₃₅	Q ₆₃₆	Q ₆₃₇	Q ₆₃₈	Q ₆₃₉	Q ₆₄₀	Q ₆₄₁	Q ₆₄₂	Q ₆₄₃	Q ₆₄₄	Q ₆₄₅	Q ₆₄₆	Q ₆₄₇	Q ₆₄₈	Q ₆₄₉	Q ₆₅₀	Q ₆₅₁	Q ₆₅₂	Q ₆₅₃	Q ₆₅₄	Q ₆₅₅	Q ₆₅₆	Q ₆₅₇	Q ₆₅₈	Q ₆₅₉	Q ₆₆₀	Q ₆₆₁	Q ₆₆₂	Q ₆₆₃	Q ₆₆₄	Q ₆₆₅	Q ₆₆₆	Q ₆₆₇	Q ₆₆₈	Q ₆₆₉	Q ₆₇₀	Q ₆₇₁	Q ₆₇₂	Q ₆₇₃	Q ₆₇₄	Q ₆₇₅	Q ₆₇₆	Q ₆₇₇	Q ₆₇₈	Q ₆₇₉	Q ₆₈₀	Q ₆₈₁	Q ₆₈₂	Q ₆₈₃	Q ₆₈₄	Q ₆₈₅	Q ₆₈₆	Q ₆₈₇	Q ₆₈₈	Q ₆₈₉	Q ₆₉₀	Q ₆₉₁	Q ₆₉₂	Q ₆₉₃	Q ₆₉₄	Q ₆₉₅	Q ₆₉₆	Q ₆₉₇	Q ₆₉₈	Q ₆₉₉	Q ₇₀₀	Q ₇₀₁	Q ₇₀₂	Q ₇₀₃	Q ₇₀₄	Q ₇₀₅	Q ₇₀₆	Q ₇₀₇	Q ₇₀₈	Q ₇₀₉	Q ₇₁₀	Q ₇₁₁	Q ₇₁₂	Q ₇₁₃	Q ₇₁₄	Q ₇₁₅	Q ₇₁₆	Q ₇₁₇	Q ₇₁₈	Q ₇₁₉	Q ₇₂₀	Q ₇₂₁	Q ₇₂₂	Q ₇₂₃	Q ₇₂₄	Q ₇₂₅	Q ₇₂₆	Q ₇₂₇	Q ₇₂₈	Q ₇₂₉	Q ₇₃₀	Q ₇₃₁	Q ₇₃₂	Q ₇₃₃	Q ₇₃₄	Q ₇₃₅	Q ₇₃₆	Q ₇₃₇	Q ₇₃₈	Q ₇₃₉	Q ₇₄₀	Q ₇₄₁	Q ₇₄₂	Q ₇₄₃	Q ₇₄₄	Q ₇₄₅	Q ₇₄₆	Q ₇₄₇	Q ₇₄₈	Q ₇₄₉	Q ₇₅₀	Q ₇₅₁	Q ₇₅₂	Q ₇₅₃	Q ₇₅₄	Q ₇₅₅	Q ₇₅₆	Q ₇₅₇	Q ₇₅₈	Q ₇₅₉	Q ₇₆₀	Q ₇₆₁	Q ₇₆₂	Q ₇₆₃	Q ₇₆₄	Q ₇₆₅	Q ₇₆₆	Q ₇₆₇	Q ₇₆₈	Q ₇₆₉	Q ₇₇₀	Q ₇₇₁	Q ₇₇₂	Q ₇₇₃	Q ₇₇₄	Q ₇₇₅	Q ₇₇₆	Q ₇₇₇	Q ₇₇₈	Q ₇₇₉	Q ₇₈₀	Q ₇₈₁	Q ₇₈₂	Q ₇₈₃	Q ₇₈₄	Q ₇₈₅	Q ₇₈₆	Q ₇₈₇	Q ₇₈₈	Q ₇₈₉	Q ₇₉₀	Q ₇₉₁	Q ₇₉₂	Q ₇₉₃	Q ₇₉₄	Q ₇₉₅	Q ₇₉₆	Q ₇₉₇	Q ₇₉₈	Q ₇₉₉	Q ₈₀₀	Q ₈₀₁	Q ₈₀₂	Q ₈₀₃	Q ₈₀₄	Q ₈₀₅	Q ₈₀₆	Q ₈₀₇	Q ₈₀₈	Q ₈₀₉	Q ₈₁₀	Q ₈₁₁	Q ₈₁₂	Q ₈₁₃	Q ₈₁₄	Q ₈₁₅	Q ₈₁₆	Q ₈₁₇	Q ₈₁₈	Q ₈₁₉	Q ₈₂₀	Q ₈₂₁	Q ₈₂₂	Q ₈₂₃	Q ₈₂₄	Q ₈₂₅	Q ₈₂₆	Q ₈₂₇	Q ₈₂₈	Q ₈₂₉	Q ₈₃₀	Q ₈₃₁	Q ₈₃₂	Q ₈₃₃	Q ₈₃₄	Q ₈₃₅	Q ₈₃₆	Q ₈₃₇	Q ₈₃₈	Q ₈₃₉	Q ₈₄₀	Q ₈₄₁	Q ₈₄₂	Q ₈₄₃	Q ₈₄₄	Q ₈₄₅	Q ₈₄₆	Q ₈₄₇	Q ₈₄₈	Q ₈₄₉	Q ₈₅₀	Q ₈₅₁	Q ₈₅₂	Q ₈₅₃	Q ₈₅₄	Q ₈₅₅	Q ₈₅₆	Q ₈₅₇	Q ₈₅₈	Q ₈₅₉	Q ₈₆₀	Q ₈₆₁	Q ₈₆₂	Q ₈₆₃	Q ₈₆₄	Q ₈₆₅	Q ₈₆₆	Q ₈₆₇	Q ₈₆₈	Q ₈₆₉	Q ₈₇₀	Q ₈₇₁	Q ₈₇₂	Q ₈₇₃	Q ₈₇₄	Q ₈₇₅	Q ₈₇₆	Q ₈₇₇	Q ₈₇₈	Q ₈₇₉	Q ₈₈₀	Q ₈₈₁	Q ₈₈₂	Q ₈₈₃	Q ₈₈₄	Q ₈₈₅	Q ₈₈₆	Q ₈₈₇	Q ₈₈₈	Q ₈₈₉	Q ₈₉₀	Q
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OBSERVAÇÕES

- Medidas das cotas em cm (exceto onde indicado)
- Verificar medidas na obra
- Molhar as formas antes da concretagem
- Usar espaçadores para garantir recobrimento do aço
- Nas armações negativas das lajes - usar "carangueijos"
- Cura mínima = 7 dias
- Descimbramento(formas) = mínimo de 28 dias
- Todas as peças de concreto em contato com o solo devem ser executadas sobre lastro de concreto magro $c/a = 5\text{cm}$
- Em caso de dúvidas, contactar o Calculista

Classe de Agresiv.: C II		Ec(5600 fck):		Agrego. Grauado; Brita 01	
CONCRETO(F _{ck}): 25 MPa		CA: CA 50		SLUMP (mm): 100+ -10	
Form. A/C (max.): < 0.60		AÇO: C Res.		ADITIVO:	
Nº	DATA	DESCRIÇÃO		VISTO	
QUADRO DE REVISÕES					
FIM					
PROJETO EXECUTIVO DE ESTRUTURAL					
PAVILHÃO DE SALAS DE AULA II CAMPUS UNI - JANAUBÁ RODOVIA KM 567, RM 8955, IP 8050 - AUTO DA AJCRA - DANAMIRBENS					 UFVJM
PROPONENTE: UNIVERSIDADE FEDERAL DOS VALES DO ESPÍRITO SANTO		ORÇ: 16.600,515(00001-57)			
TÍTULO					
ARMACÃO DE VIGAS BALDRAME - 01					
AUTORIZAÇÃO PRESENCIAL / ESI					
ASSINATURA DE CLAYDSON LIMA RG Nº 29.520.881-9 DATA 20/08/2011 PÚBLICA DE ADMINISTRAÇÃO - BARRIO					
CÓPIA:	VERSÃO :	DATA:	AUTORIZADO:	FECHA:	
	01	20.08.2011			
ARQUIVO: PAVILHÃO DE SALAS DE AULA II - 12102 PAVILTOS - EST					