

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

**Plan View:**

- Structure: A long bridge with multiple spans.
- Labels: V115, V117, V120, V122, V124, V.
- Dimensions (from left to right):
  - 32 x 5.5 C/20 (P5 (337))
  - 19 x 5.5 C/20 (P5 (367))
  - 10 x 5.5 C/20 (P5 (198))
  - 10 x 5.5 C/20 (P5 (198))
  - 15 x 5.5 C/20 (P5 (244))
- Labels: 2 P1  $\phi$  10 C=1055, 2 P2  $\phi$  8 C=561.

**Cross-section:**

- Structure: A single span.
- Labels: 2 P3  $\phi$  10 C=510, 2 P4  $\phi$  10 C=1110.
- Dimensions: 480 (width), 1085 (depth).

Technical drawing of a reinforced concrete slab (L.1) showing dimensions, reinforcement details, and structural elements.

**Dimensions and Reinforcement:**

- Top edge: 468
- Top left corner: 2 P1  $\phi$  12.5 C=568
- Top right corner: 2 P2  $\phi$  12.5 C=455
- Top center: 82 (2  $\phi$  2cAV)
- Top center: 2 P3  $\phi$  12.5 C=220
- Left side: 1/4/40
- Left side: 4  $\phi$  5/20 RA (15)
- Left side: 18  $\phi$  5/20 P1 (15)
- Left side: 250  $\phi$  4
- Left side: 18  $\phi$  5/20 P2 (15)
- Left side: 1/4/68
- Left side: 1/4/40
- Left side: P13
- Left side: P14
- Left side: 8  $\phi$
- Left side: 2x3 P8  $\phi$  8 C=386
- Left side: 770
- Left side: 2 P5  $\phi$  10 C=855

**Structural Elements:**

- Reinforcement bars: 1/4/40, 1/4/68, 1/4/40
- Reinforcement bars: 4  $\phi$  5/20 RA (15), 18  $\phi$  5/20 P1 (15), 18  $\phi$  5/20 P2 (15)
- Reinforcement bars: 250  $\phi$  4, 8  $\phi$
- Reinforcement bars: 2x3 P8  $\phi$  8 C=386, 2 P5  $\phi$  10 C=855
- Reinforcement bars: P13, P14

**Other Details:**

- Top left corner: 2 P1  $\phi$  12.5 C=568
- Top right corner: 2 P2  $\phi$  12.5 C=455
- Top center: 82 (2  $\phi$  2cAV)
- Top center: 2 P3  $\phi$  12.5 C=220
- Left side: 1/4/40
- Left side: 4  $\phi$  5/20 RA (15)
- Left side: 18  $\phi$  5/20 P1 (15)
- Left side: 250  $\phi$  4
- Left side: 18  $\phi$  5/20 P2 (15)
- Left side: 1/4/68
- Left side: 1/4/40
- Left side: P13
- Left side: P14
- Left side: 8  $\phi$
- Left side: 2x3 P8  $\phi$  8 C=386
- Left side: 770
- Left side: 2 P5  $\phi$  10 C=855

Technical drawing of a mechanical part, likely a shaft or axle, showing three views: front, top, and side.

**Front View (Top):**

- Overall length: 215 x 5/20 (520)
- Central section: 15 x 5/20 (125)
- Section lines: 15 x 5/20 (125)
- Labels: V121, V123, V125, V127

**Top View (Bottom):**

- Overall length: 287
- Central section: 162 x 12.5 C=195
- Section lines: 162 x 12.5 C=195
- Labels: 2 P2, 2 P3, 2 P1, 2 P4, 2 P5

**Side View (Right):**

- Overall length: 495
- Central section: 260 x 10 C=285
- Section lines: 260 x 10 C=285
- Labels: 1 P6, 1 P5

**Corte A**

[illegible][illegible]

Technical drawing of a bridge deck cross-section showing reinforcement details. The drawing includes dimensions for concrete cover, reinforcement spacing, and bar placement. Key dimensions include 448, 282, 152, 36, 30, 8, 745, 625, and 443. Reinforcement bars are labeled P1, P2, P3, P4, P5, P6, P7, P8, P9, P30, and P32. Concrete cover is specified as C=483, C=610, C=330, C=343, C=20, C=775, and C=565. The drawing also shows a central section with a width of 100 and a height of 100.

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Technical drawing of a reinforced concrete slab (P4) with dimensions and reinforcement details.

**Plan View:**

- Overall dimensions: 612 x 473.
- Reinforcement bars: 2 P1 8 C=702, 3 P2 16 C=730.
- Section line A-A.

**Section View A-A:**

- Slab thickness: 120 mm.
- Reinforcement bars: P18, P19.

**Detail View:**

- Reinforcement bar P4: 29 P4 6.3 C=220, 29 P4 6.3 C=150.

**Other Details:**

- Reinforcement bar P5: 2x3 P5 8 C=611.
- Reinforcement bar P6: 4x2 P3 8 C=591.
- Reinforcement bar P7: 1 8 C=260.

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612  
2 P1 Ø 8 C=702

30 x 6.3 C/20

30 x 6.3 C/20

30 x 6.3 C/20

74

76

3x2 P4 Ø 8 C=84

2 P3 Ø 16 C=430 (1 Ø 20C4M)

613

2 P2 Ø 16 C=725

30

76

3x2 P4 Ø 8 C=84

30 P5 Ø 6.3 C=160

Corte A

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

**Plan View Dimensions:**

- Span 1: 12.5 m (P1, C=240)
- Span 2: 17.5 m (P2, C=810)
- Span 3: 12.5 m (P3, C=475)
- Span 4: 7.5 m (P4, C=305)
- Total Length: 42.5 m

**Cross-Section Dimensions:**

- Abutment A: 9.80 m width
- Abutment B: 9.80 m width
- Pier: 4.94 m width
- Bridge Deck: 10.00 m width

**Structural Details:**

- Reinforcement: P1, P2, P3, P4
- Concrete: C=240
- Steel: S=20

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60	5	727	112
50	6,3	251	61
50	8	389	154
50	10	473	292
50	12,5	140	134
50	16	69	109
Peso Total		60 =	112 kg
Peso Total		50 =	751 kg

ESCALA:Indicada	DATA:24/09/2017	ENGENHEIRO:DIEGO VASCONCELOS CREA REG.:020930945-8
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