

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

Plan View (Top):

- Reinforcement bars: 3N11 ϕ 16 C=770, 2N9 ϕ 16 C=875, 2N8 ϕ 16 C=880, 2N10 ϕ 16 C=850, 2N12 ϕ 16 C=735, 2N1 ϕ 16 C=885.
- Dimensions: 690, 750, 690, 235, 380.
- Labels: P1, P5, P10, P11, P12, P13, P35.

Longitudinal Section (Bottom):

- Reinforcement bars: 1N7 ϕ 10 C=160, 2N6 ϕ 12.5 C=160, 2N4 ϕ 16 C=770, 2N2 ϕ 16 C=885, 2N1 ϕ 16 C=890, 2N3 ϕ 16 C=850, 2N5 ϕ 16 C=740.
- Dimensions: 245, 277, 291, 255, 74.
- Labels: V-1101 (20x30), V-1102 (20x30), V-1103 (20x30), V-1104 (20x30), V-1105 (20x30), V-1106 (20x30).

V 4
Escala 1:100

V 5
Escala 1:100

Technical drawing of a bridge structure, showing various components and dimensions. The drawing includes a cross-section view (A-A) and a plan view. Key components and dimensions are labeled:

- Top Section:**
 - Dimensions: 119, 590, 750, 615.
 - Labels: V 13, P24, P18, P16, P28.
 - Reinforcement: 2N37#16 C=780, 2N36#16 C=875, 2N38#16 C=700.
- Bottom Section:**
 - Dimensions: 92, 2525, 540, 2525, 700, 2525, 540, 50.
 - Labels: V-1117, V-1118, V-1119, V-1120.
 - Reinforcement: 2N40#10 C=140, 1N39#10 C=175, 2N33#16 C=785, 2N35#12.5 C=190, 2N34#16 C=705, 2N32#16 C=885.
 - Other labels: 8x 1N41#5 c/13, 42x1N41#5c/13, 54x1N41#5c/13, 42x1N41#5c/13.
- Structural Details:**
 - Section A-A is indicated by arrows.
 - Reinforcement bars are shown with their respective diameters and spacing.
 - Dimensions for reinforcement bars are provided in millimeters (mm).

Corte A
Escala 1:5

Corte A
Escala 1:50

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Ret. (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)		
V 1	1	Ø16	2	19	890	19	890	1780	27.9	34.8		
	2	Ø16	2		885		1770	27.8				
	3	Ø16	2		850		1700	26.7				
	4	Ø16	2		751		1540	24.2				
	5	Ø16	2	721	1480	23.2	34.8					
	6	Ø12.5	4	160	640	6.3						
	7	Ø10	2	160	320	2.0						
	8	Ø16	2	880	1760	27.6						
	9	Ø16	2	875	1750	27.5						
	10	Ø16	2	850	1700	26.7						
	11	Ø16	3	19	751	2310		36.3				
	12	Ø16	2	716	1470	23.1						
	13	Ø5	246		90	22140						
Total+10%:								307.2	38.3			
V 2	14	Ø16	2	19	910		910	1820	28.6	29.1		
	15	Ø16	2		890		1780	27.9				
	16	Ø16	4		766		3140	49.3				
	17	Ø12.5	4		185		740	7.3				
	18	Ø10	1	185	185	1.2	32.0					
	19	Ø16	2	900	1800	28.3						
	20	Ø16	2	870	1740	27.3						
	21	Ø16	5	19	766	785		3925	61.6			
	22	Ø5	206		90	18540						
	Total+10%:								254.7		32.0	
	V 3	23	Ø16	2	19	1011	19	1030	2060		32.3	24.3
		24	Ø16	2	880	880		1760	27.6			
25		Ø16	2	771	790	1580		24.8				
26		Ø12.5	4	195	195	780		7.7				
27		Ø16	3	19	1011	1030	3090	48.5	24.3			
28		Ø16	2	865	865	1730	27.2					
29		Ø16	2	766	785	1570	24.6					
30		Ø12.5	3	155	155	465	4.6					
31		Ø5	172		90	15480						
Total+10%:								217.0	26.7			
V 4		32	Ø16	2	19	885	19	885	1770	27.8	20.6	
	33	Ø16	2	766		785		1570	24.6			
	34	Ø16	2	686		705		1410	22.1			
	35	Ø12.5	2	190		190		380	3.7			
	36	Ø16	2	875	875	1750	27.5	20.6				
	37	Ø16	2	19	761	780	1560		24.5			
	38	Ø16	2	681	700	1400	22.0					
	39	Ø10	1	175	175	175	1.1					
	40	Ø10	2	140	140	280	1.8					
	41	Ø5	146		90	13140						
	Total+10%:								170.6	22.7		
V 5	42	Ø8	2	10	380	10	400	800	3.1	3.1		
	43	Ø8			365		365	365	1.4			
	44	Ø12.5	3	15	380		410	1230	12.1			
	45	Ø5	22				90	1980				
Total+10%:								18.3	3.4			
V 10	46	Ø12.5	3	15	545	15	575	1725	16.9	5.7		
	47	Ø12.5	1		155		155	155	1.5			
	48	Ø10	2	12	545	12	569	1138	7.1			
	49	Ø5	40				90	3600				
Total+10%:								28.1	6.3			
V 28	50	Ø10	2	12	443	12	467	934	5.9	3.5		
	51	Ø10	2	12	443	12	467	934	5.9			
	52	Ø5	25				90	2250				
Total+10%:								13.0	3.9			
								Ø5:	0.0	133.3		
								Ø8:	5.0	0.0		
								Ø10:	27.7	0.0		
								Ø12.5:	65.9	0.0		
								Ø16:	910.3	0.0		
								Total:	1008.9	133.3		

Corte A
Escala 1:50

206N22ø5 C=90

Technical drawing of a bridge deck cross-section showing reinforcement details. The drawing includes a top view of the deck with reinforcement bars (V-1112 to V-1116) and a side view showing the deck profile and reinforcement layout. Key dimensions and reinforcement specifications are provided.

Top View Details:

- Reinforcement bars: V-1112 (20x30), V-1113 (20x30), V-1114 (20x30), V-1115 (20x30), V-1116 (20x30).
- Dimensions: 180, 750, 750, 590, 119.
- Reinforcement specifications: 2N30 ϕ 12.5 C=155 2^a camada, 3N27 ϕ 16 C=1030, 2N28 ϕ 16 C=865, 2N29 ϕ 16 C=785.

Side View Details:

- Reinforcement bars: 12x1N31 ϕ 5 c/13, 8x1N31 ϕ 5 c/11, 48x1N31 ϕ 5c/13, 54x1N31 ϕ 5c/13, 42x1N31 ϕ 5c/13, 8x1N31 ϕ 5 c/13.
- Dimensions: 153, 2525, 80, 620, 2525, 700, 2525, 540, 2525, 92.
- Reinforcement specifications: 2N26 ϕ 12.5 C=195, 2N23 ϕ 16 C=1030, 2N24 ϕ 16 C=880, 2N25 ϕ 16 C=790.

Corte A
Escala 1:50

V 10
Escala 1:100

172N31Ø5 C=90

V 28
Escala 1:100

Corte A
Escala 1:50

40N49ø5 C=90

Corte A
Escala 1:50

RAMPA DO RESTAURANTE CAMPUS TÓFIO OTONI			
AVENIDA DR. LUIZ BULO PORTO SALAMAN, S/Nº - BARRIO IPIRANGA - TEFÉPOLI OTONI/MS			
PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI	CNPJ 18.888.315/0001-57		
OBSERVAÇÕES			
CONFERIR MEDIDAS NA OBRA			
TÍTULO			
PROJETO DA RAMPA DO RESTAURANTE			
AUTOR PROJETO:			
ROBSON NOGUEIRA GOMES – CREA 111839/D			
VERSÃO: VERSAO 1	DATA: 22.05.2013	AUTODADO:	FOLHA: 50/66