






























Resumo Aço	Comp. total	Peso+10%	Total
Desenho de vigas	(m)	(kg)	
CA-50 Ø8	20.9	9	
Ø10	254.7	173	
Ø12.5	34.9	37	219
CA-60 Ø5	368.0	64	64
Total			283

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 605	1	Ø10	2		373	800	1600	9.9
	2	Ø12.5	2		332	575	1070	10.3
	3	Ø12.5	1		332	245	240	2.2
	4	Ø10	1		360	160	160	1.0
	5	Ø8	2		395	295	295	1.8
	6	Ø8	2		590	1180	4.7	
	7	Ø10	2		388	388	760	4.7
	8	Ø12.5	2		332	635	1070	18.0
	9	Ø12.5	1		332	315	315	2.0
	10	Ø8	2		454	454	908	3.6
	11	Ø5	4		330	320	1280	2.0
	12	Ø5	4		430	430	1720	2.7
	13	Ø5	4		435	455	1820	2.9
	14	Ø5	55	2		7920	144	7920

Elemento	Pos.	Diam. Q	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 601	1	010 4		566	3684	23.8	
	2	035 44		49	4130	6	
				Total=10%; 26.2 7.2			
V 602	1	010 4		1068	4302	27.1	
	2	035 52		49	4888	7.7	
				Total=10%; 29.8 8.5			
V 603	1	010 4		941	3743	23.2	
	2	010 4		973	2292	14.1	
	3	035 69		49	6400	10.2	
				Total=10%; 41.0 11.2			
V 604	1	010 4		310	3119	19.6	
	2	010 4		559	2356	14.8	
	3	035 67		49	6038	9.8	
				Total=10%; 37.7 10.9			
V 606	1	010 4		564	2256	13.9	
	2	010 1		205	205	1.3	
	3	010 1		175	175	1.1	
	4	010 1		140	140	0.9	
	5	035 24		49	2256	3.5	













Ø5:	0.0	63.7
Ø8:	9.1	0.0
Ø10:	172.7	0.0
Ø12.5:	36.9	0.0
Total:	218.7	63.7

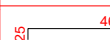





The drawing consists of two main parts: a cross-section (Seção A and B) and a longitudinal section (Vista A).

Seção A (Cross-section): Shows a rectangular cross-section with a width of 2.5m and a height of 0.5m. The total width of the bridge deck is 7.30m. The section is labeled N7 17N705 C=124.





















Seção B (Cross-section): Shows a rectangular cross-section with a width of 2.5m and a height of 0.5m. The total width of the bridge deck is 7.30m. The section is labeled N8 13N805 C=114.

Vista A (Longitudinal section): Shows the bridge deck profile along its length. The deck is supported by three piers (P1, P2, P3) and has a total length of 4.75m. The deck is composed of 2N1012.5 C=519 and 2N2010 C=350.2" camada. The piers are labeled N3 20N305 C=114.

Elemento	Pos.	Diam. (cm)	Equivalencia (cm)	Comp. (cm)	Total C.A. (kg)	CA-60 (kg)	
V 702	1	012,5		360	720	6,9	
	2	012,5		360	720	6,9	
	3	012,5		360	720	6,9	
	4	016		220	440	6,9	
	5	012,5		637	1911	18,4	
	6	012,5		245	490	4,7	
	7	035	17	124	2108	3,3	
	8	035	13		114	1482	2,3
V 708					Total=103%	55,6	6,2
	1	010	4		120	3008	1,9
	2	010		410	820	5,1	
	3	012,5		185	370	3,6	
	4	010		135	270	1,7	
	5	010		265	530	3,3	
	6	035	30	114	3990	6,3	
					Total=103%	36,1	6,9
					Ose 0,00	0,0	13,1
					010	32,1	0,0
				012,5	52,0	0,0	
				016	0,0	1,6	
				Total	81,7	13,1	

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (Kg)	CA-60 (kg)
V 706	1	Ø12 x 5	4		519	2076	20.0	
	2	Ø10	2		350	700	4.3	
	3	Ø5	26		114	2984		4.7
	Total+10%:						26.7	5.2
V 707	1	Ø10	4		314	1256	7.7	
	2	Ø12 x 5	2		314	628	6.0	
	3	Ø5	8		114	912		1.4
	Total+10%:						15.1	1.5

Resumo Aço Desenho de vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø10	130.3	88	
Ø12.5	146.0	155	
Ø16	48.4	84	327
CA-60 Ø5	267.3	46	46
Total			373

Elemento	Pos.	Dim. Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 705	1	Ø12 x 5		230	478	4.6	
	2	Ø10 x 2		200	370	3.3	
	3	Ø12 x 2		200	370	6.9	
	4	Ø12 x 2.5		200	400	3.9	
	5	Ø12 x 2.5		140	280	2.7	
	6	Ø10 x 2		155	155	1.0	
	7	Ø12 x 2.5		214	429	4.1	
	8	Ø12 x 2.5		335	670	6.5	
	9	Ø12 x 2.5		340	680	6.5	
	10	Ø12 x 2.5		250	250	2.4	
	11	Ø5 x 8		94	752		1.2
	12	Ø5 x 28		124	3472		5.5
V 704	1	Ø10 x 4		777	3098	10.0	42.2
	2	Ø12.5 x 1		205	205	2.0	
	3	Ø10 x 2		255	510	3.1	
	4	Ø10 x 2		140	280	1.7	
	5	Ø5 x 10		92	920		1.4
	6	Ø5 x 23		94	2162		3.4
V 705	1	Ø12.5 x 4		314	1256	12.1	5.3
	2	Ø5 x 8		114	912		1.5
				Total	1012	13.3	1.4
					65	7.0	20.9
					Ø12 x 45.5	0.0	0.0
					Total	150.7	20.9