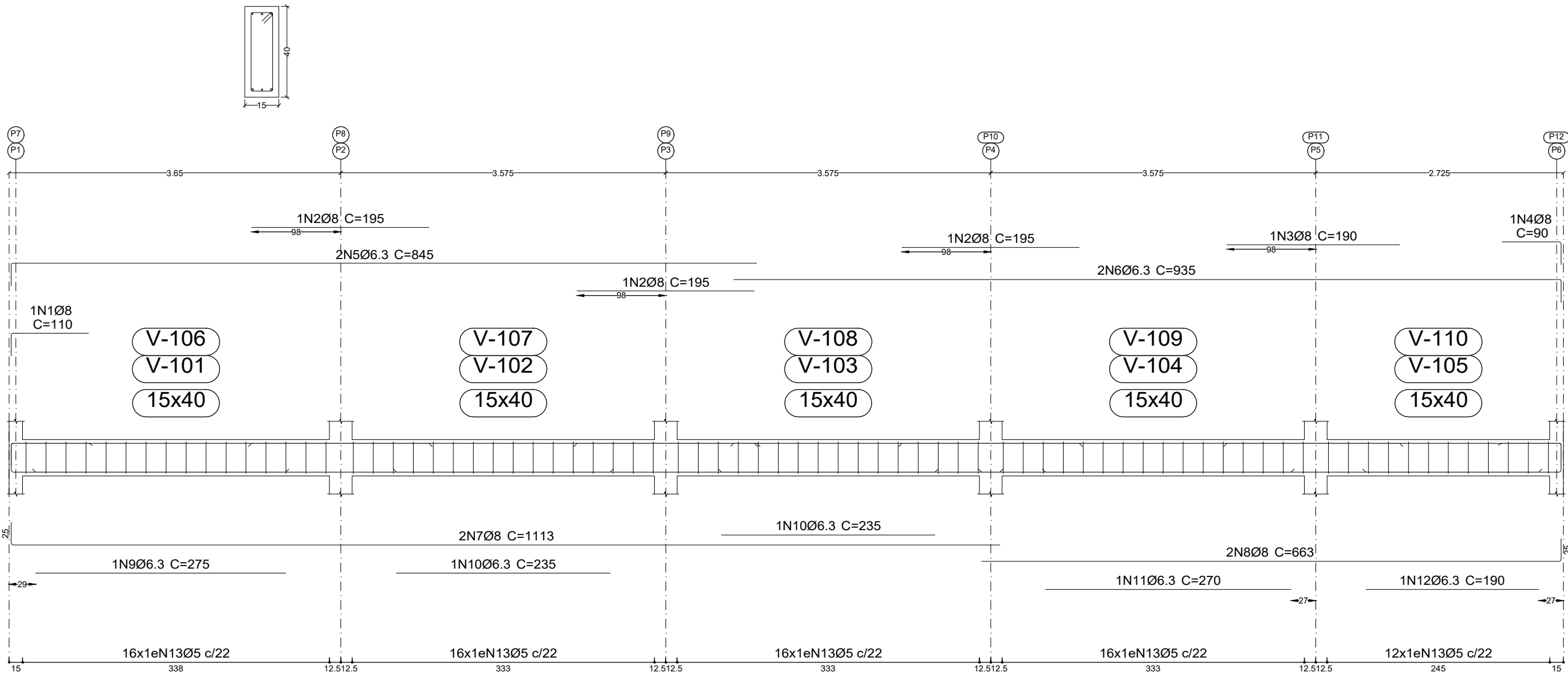


BALDRAME
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:20
Escala aberturas 1:20
Cobrimentos: 2.5 cm

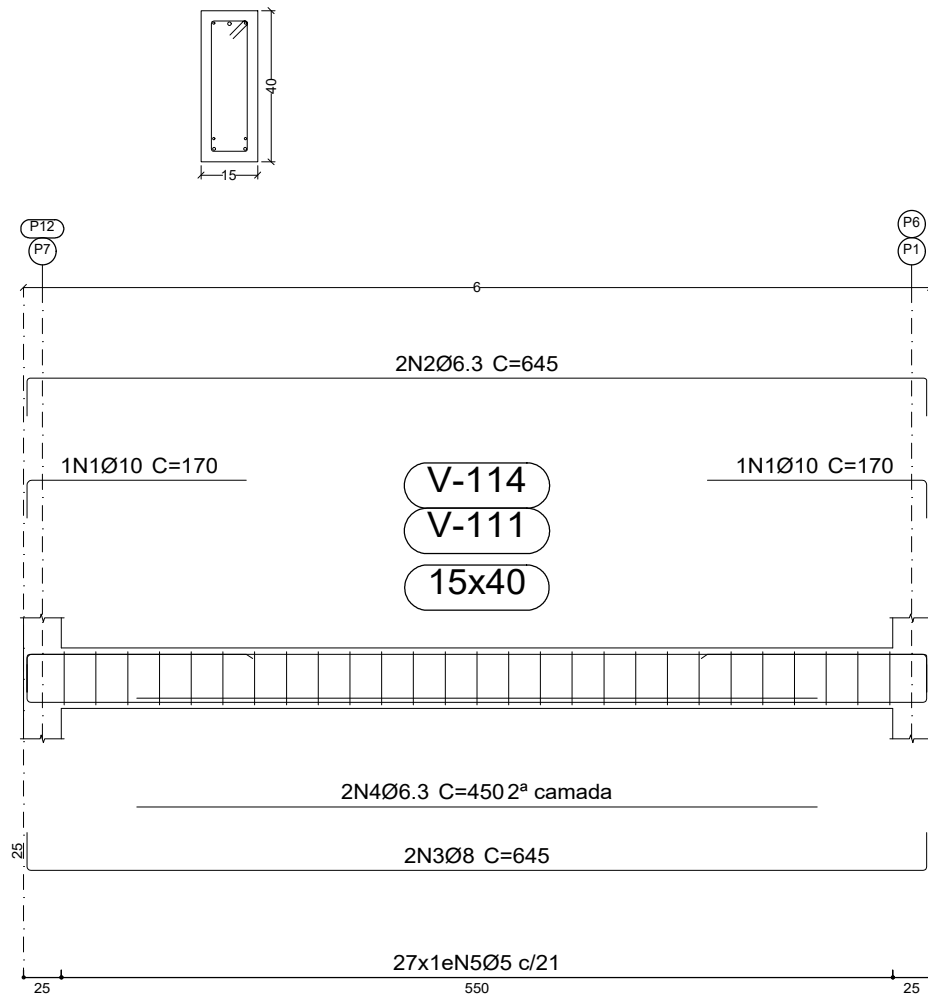
Resumo Aço		Comp. total	Peso	Total
Desenho de vigas		(m)	(kg)	
CA-50	Ø6.3	188.7	46	110
	Ø8	142.1	56	
	Ø10	13.2	8	
CA-60	Ø5	256.8	40	40
Total				150

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1=V 2	1	Ø8	1		110	110	0.4	
	2	Ø8	3		195	585	2.3	
	3	Ø8	1		190	190	0.8	
	4	Ø8	1		90	90	0.4	
	5	Ø6.3	2		845	1690	4.1	
	6	Ø6.3	2		935	1870	4.6	
	7	Ø8	2		1113	2226	8.8	
	8	Ø8	2		663	1326	5.2	
	9	Ø6.3	1		275	275	0.7	
	10	Ø6.3	2		235	470	1.2	
	11	Ø6.3	1		270	270	0.7	
	12	Ø6.3	1		190	190	0.5	
	13	Ø5	76		98	7448		11.7
						Total: 29.7 (x2): 59.4	11.7	23.4
V 3=V 6	1	Ø10	2		170	340	2.1	
	2	Ø6.3	2		645	1290	3.2	
	3	Ø8	2		645	1290	5.1	
	4	Ø6.3	2		450	900	2.2	
	5	Ø5	27		98	2646		4.2
						Total: 12.6 (x2): 25.2	4.2	8.4
V 4	1	Ø10	2		160	320	2.0	
	2	Ø6.3	2		645	1290	3.2	
	3	Ø8	2		645	1290	5.1	
	4	Ø6.3	1		480	480	1.2	
	5	Ø6.3	2		355	710	1.7	
	6	Ø5	28		98	2744		4.3
						Total: 13.2	4.3	
V 5	1	Ø10	2		160	320	2.0	
	2	Ø6.3	2		645	1290	3.2	
	3	Ø8	2		645	1290	5.1	
	4	Ø6.3	1		480	480	1.2	
	5	Ø6.3	2		355	710	1.7	
	6	Ø5	28		98	2744		4.3
						Total: 13.2	4.3	
						Ø5: 0.0	0.0	40.4
						Ø6.3: 46.6	0.0	
						Ø8: 56.2	0.0	
						Ø10: 8.2	0.0	
						Total: 111.0	40.4	

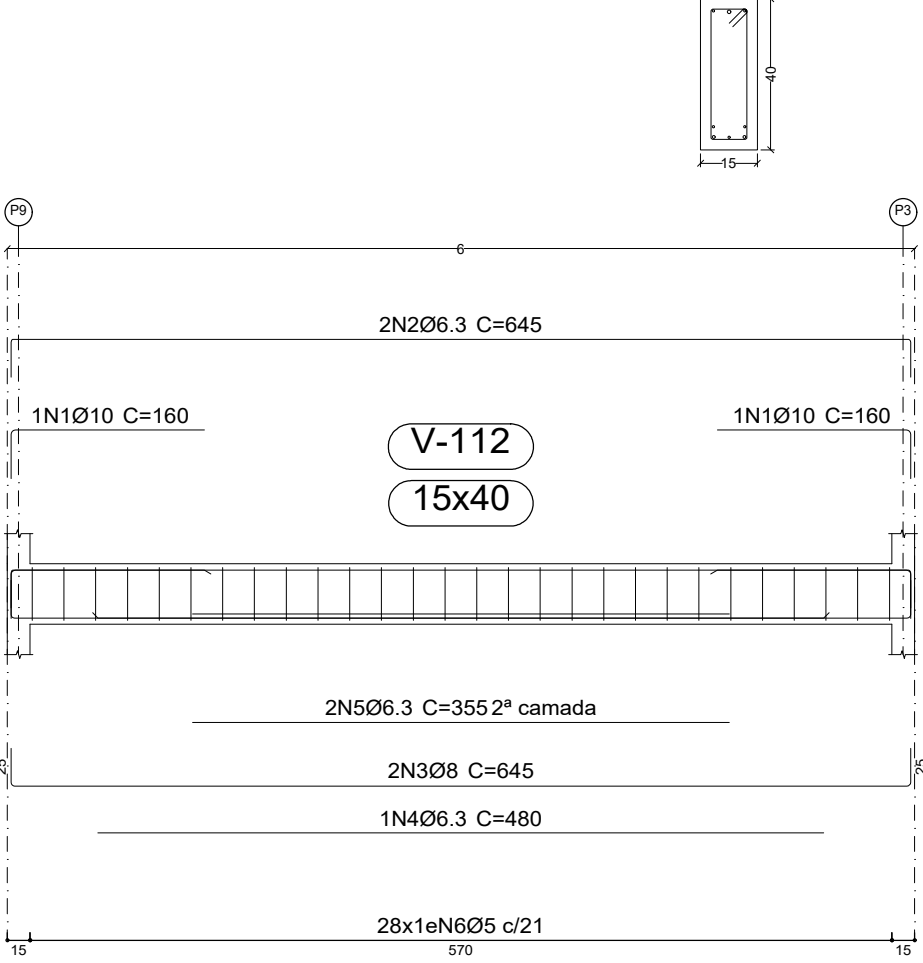
V 1
V 2



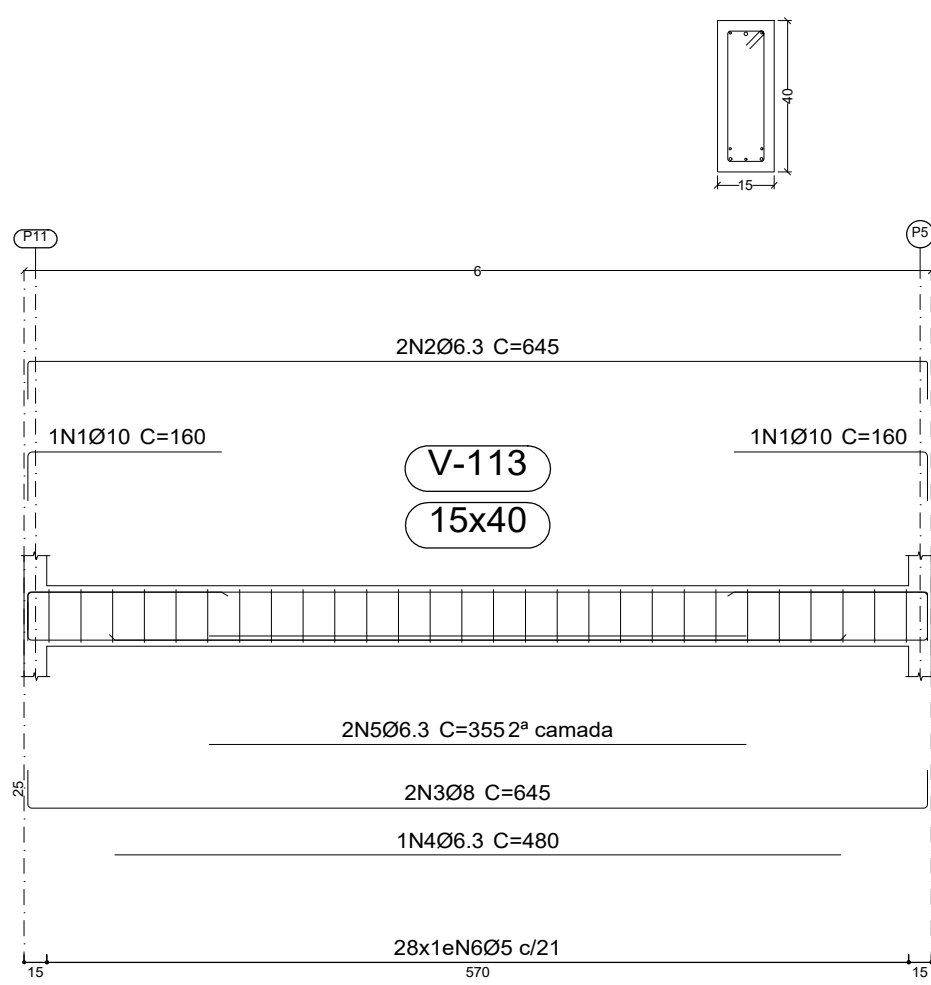
V 3
V 6



V 4



V 5



Projeto:	EDUCACIONAL	Data:	02/2/2025
Local:	Novorizonte - MG		
Nome:	Prefeitura Municipal de Novorizonte - MG		
Des.no.:	Planta: Cálculo Estrutural		
	Reforma/Adequação e Ampliação da Escola Municipal de Havana		
Autor:	Paloma Almeida Duarte - CREA-MG 366944		
			06/08