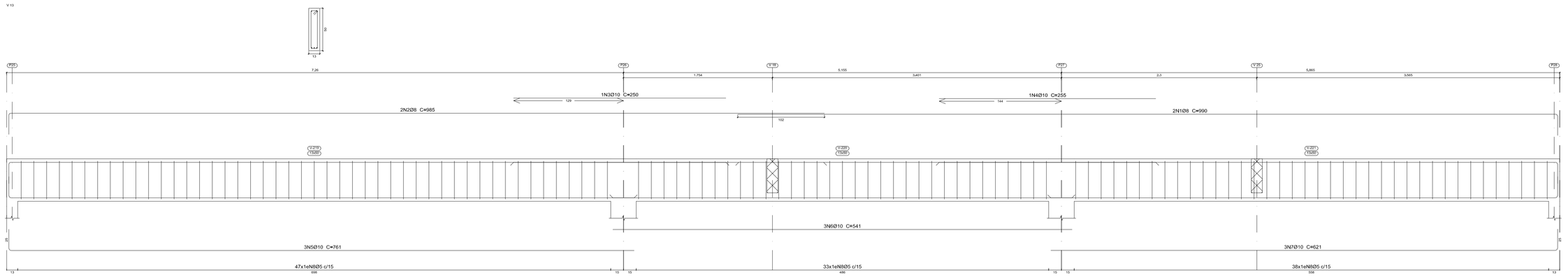
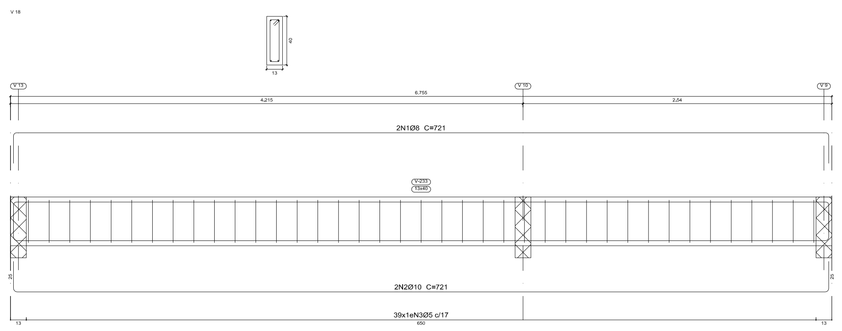
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 13	1	ø8	2	990	990	1980	7.8	
	2	ø8	2	985	985	1970	7.8	
	3	ø10	1	250	250	250	1.5	
	4	ø10	1	255	255	255	1.6	
	5	ø10	3	761	761	2283	14.1	
	6	ø10	3	541	541	1623	10.0	
	7	ø10	3	621	621	1863	11.5	
	8	ø5	118	114	114	13452		21.1
					Total+10%:		59.7	23.2
V 14	1	ø8	2	1120	1120	2240	8.8	
	2	ø8	2	1090	1115	2230	8.8	
	3	ø8	1	200	200	200	0.8	
	4	ø8	1	110	110	110	0.4	
	5	ø8	1	145	145	145	0.6	
	6	ø8	1	155	155	155	0.6	
	7	ø8	2	847	872	1744	6.9	
	8	ø8	2	855	855	1710	6.8	
	9	ø8	2	430	455	910	3.6	
	10	ø5	107	114	114	12198		19.2
					Total+10%:		41.0	21.1
V 15	1	ø8	2	680	705	1410	5.6	
	2	ø8	2	675	700	1400	5.5	
	3	ø8	1	145	145	145	0.6	
	4	ø8	1	150	150	150	0.6	
	5	ø8	1	170	170	170	0.7	
	6	ø8	2	1014	1039	2078	8.2	
	7	ø8	2	284	289	578	2.3	
	8	ø5	70	114	7980		12.5	
					Total+10%:		25.9	13.8
V 16	1	ø8	4	423	473	1892	7.5	
	2	ø5	21	114	2394		3.8	
					Total+10%:		8.3	4.2
V 17	1	ø8	4	423	473	1892	7.5	
	2	ø5	21	114	2394		3.8	
					Total+10%:		8.3	4.2
V 18	1	ø8	2	671	721	1442	5.7	
	2	ø10	2	671	721	1442	8.9	
	3	ø5	39	94	3666		5.8	
					Total+10%:		16.1	6.4
V 19	1	ø8	4	256	306	1224	4.8	
	2	ø5	12	94	1128		1.8	
					Total+10%:		5.3	2.0
V 20	1	ø8	4	423	473	1892	7.5	
	2	ø5	21	94	1974		3.1	
					Total+10%:		8.3	3.4
V 21	1	ø8	2	1006	1006	2012	7.9	
	2	ø8	2	1006	1056	2112	8.3	
	3	ø5	53	114	6042		9.5	
					Total+10%:		17.8	10.5
					ø5:		0.0	88.8
					ø8:		138.4	0.0
					ø10:		52.3	0.0
					Total:		190.7	88.8

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 23	1	ø8	5	423	473	2365	9.3	
	2	ø5	21	114	2394			3.8
					Total+10%:		10.2	4.2
					ø5:		0.0	4.2
					ø8:		10.2	0.0
					Total:		10.2	4.2

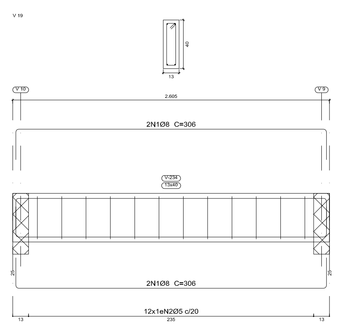
V 13



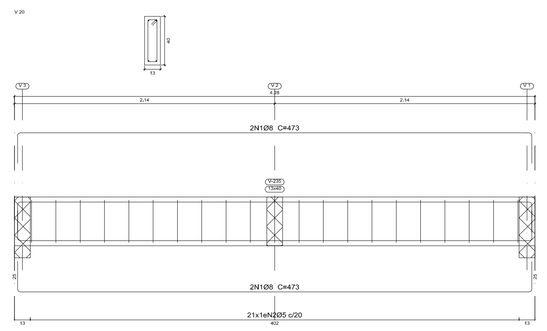
V 18



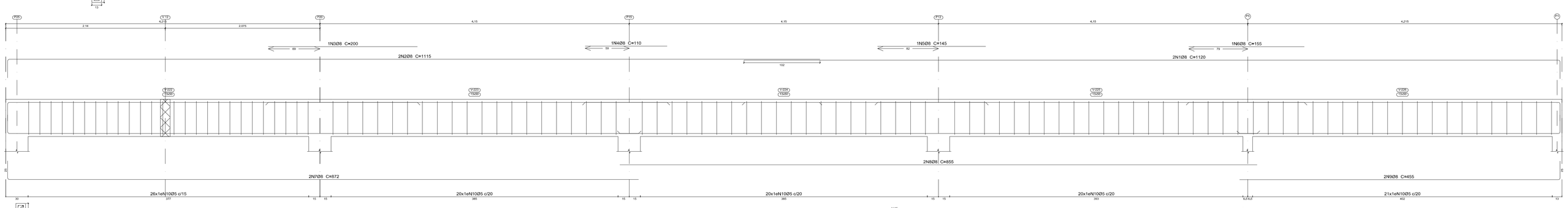
V 19



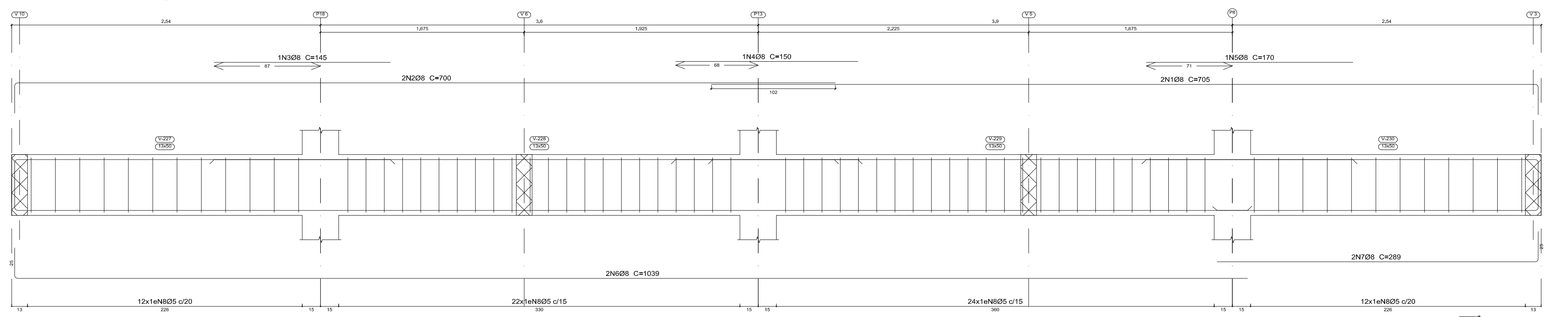
V 20



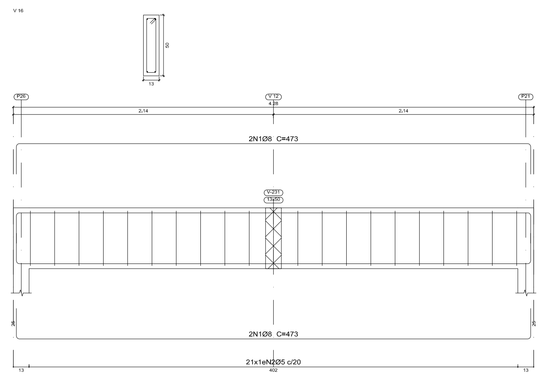
V 14



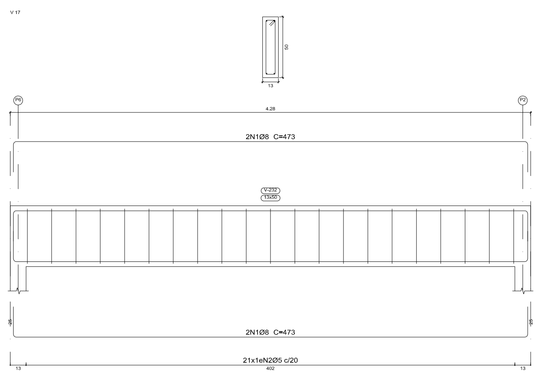
V 15



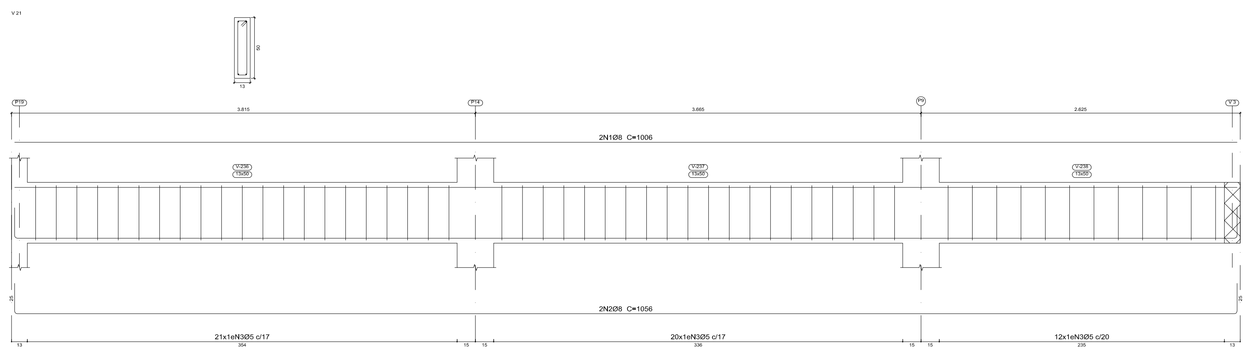
V 16



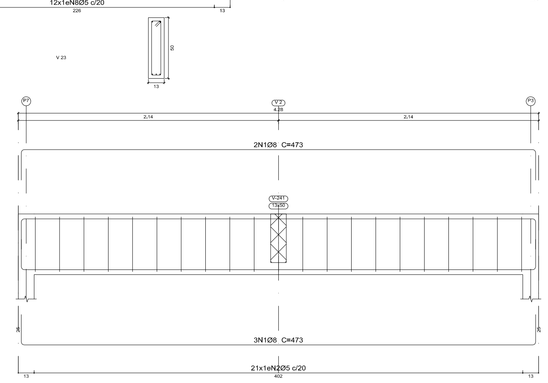
V 17



V 21



V 23



Pav.1
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50
Aço dos estribos: CA-60
Escala vigas 1:25
Escala seções 1:25
Escala aberturas 1:25

P.M.B.M. | SECRETARIA MUNICIPAL DE PLANEJAMENTO URBANO

PROJETO ESTRUTURAL | FOLHA : 11/22

DESCRIÇÃO : DETALHAMENTO DAS VIGAS

PROPRIETÁRIO : PREFEITURA MUNICIPAL DE BARRA MANSA

LOCAL : COLÔNIA SANTO ANTÔNIO

QUADRO DE ÁREAS

DATA: 11/11/2022

SELO DE APROVAÇÃO PMBM

SECRETÁRIO	AUTOR DO PROJETO	DESENHO
EROS DOS SANTOS	ENG.º ARLENIO P. DE OLIVEIRA CREA/RJ 2018107043	ENG.º ARLENIO P. DE OLIVEIRA
REVISÃO 1	REVISÃO 2	N.º ART/RRT:
REVISÃO 3	REVISÃO 4	N.º DO PROJETO:

CARIMBO

APROVAÇÃO SMPU