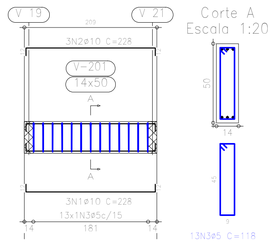
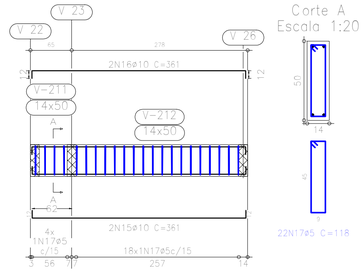
Piso 1
Desenho de vigas
Concreto: C25, usina,rigor
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20

V 1
Escala 1:50



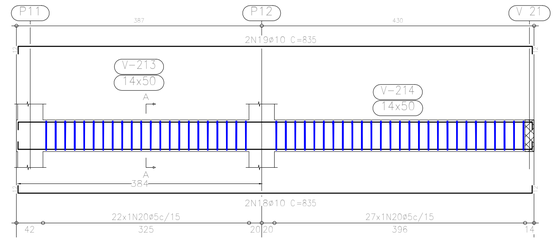
Corte A
Escala 1:20

V 3
Escala 1:50

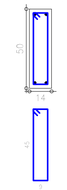


Corte A
Escala 1:20

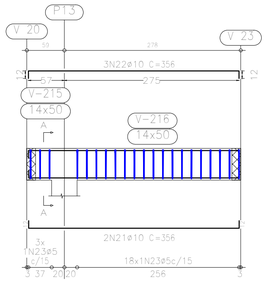
V 4
Escala 1:50



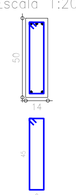
Corte A
Escala 1:20



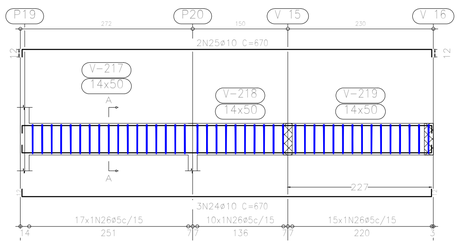
V 5
Escala 1:50



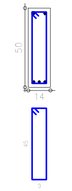
Corte A
Escala 1:20



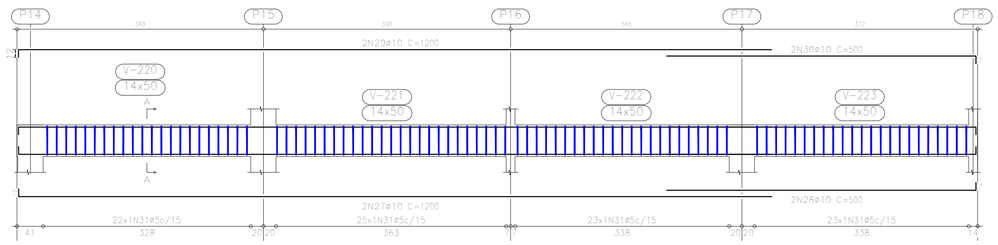
V 6
Escala 1:50



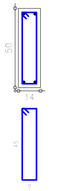
Corte A
Escala 1:20



V 7
Escala 1:50



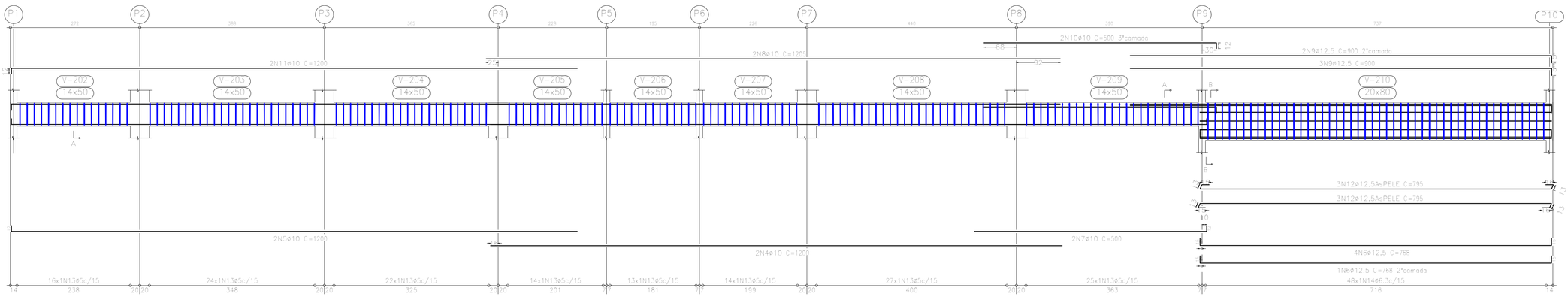
Corte A
Escala 1:20



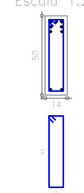
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 1	1	ø10	3	12	204	12	228	684	4,3	
	2	ø10	3	12	204	12	228	684	4,3	
	3	ø5	13				118	1534		2,4
							Total+10%:		9,5	2,6
V 2	4	ø10	2		1200		1200	2400	15,1	
	5	ø10	2	12	1188		1200	2400	15,1	
	6	ø12,5	5	15	738	15	768	3840	37,7	
	7	ø10	2		488	12	500	1000	6,3	
	8	ø10	2		1205		1205	2410	15,1	
	9	ø12,5	5		885	15	900	4500	44,2	
	10	ø10	2		488	12	500	1000	6,3	
	11	ø10	2	12	1188		1200	2400	15,1	
	12	ø12,5	6	28	738	29	795	4770	46,8	
	13	ø5	155				118	18290		28,7
	14	ø6,3	48				193	9264	22,9	
							Total+10%:		247,1	31,6
V 3	15	ø10	2	12	337	12	361	722	4,5	
	16	ø10	2	12	337	12	361	722	4,5	
	17	ø5	22				118	2596		4,1
							Total+10%:		9,9	4,5
V 4	18	ø10	2	12	811	12	835	1670	10,5	
	19	ø10	2	12	811	12	835	1670	10,5	
	20	ø5	49				118	5782		9,1
							Total+10%:		23,1	10,0
V 5	21	ø10	2	12	332	12	356	712	4,5	
	22	ø10	3	12	332	12	356	1068	6,7	
	23	ø5	21				118	2478		3,9
							Total+10%:		12,3	4,3
V 6	24	ø10	3	12	646	12	670	2010	12,6	
	25	ø10	2	12	646	12	670	1340	8,4	
	26	ø5	42				118	4956		7,8
							Total+10%:		23,1	8,6
V 7	27	ø10	2	12	1188		1200	2400	15,1	
	28	ø10	2		488	12	500	1000	6,3	
	29	ø10	2	12	1188		1200	2400	15,1	
	30	ø10	2		488	12	500	1000	6,3	
	31	ø5	93				118	10974		17,2
							Total+10%:		47,1	18,0
								ø5:	0,0	80,5
								ø6,3:	25,2	0,0
								ø10:	205,3	0,0
								ø12,5:	141,6	0,0
								Total:	372,1	80,5

Resumo Aço Piso 1 Vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50-A	ø6.3	217.3	59	
	ø10	985.2	681	
	ø12.5	369.8	399	1139
CA-60-B	ø5	1587.1	274	274
Total				1413

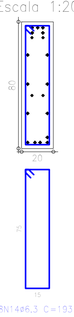
V 2
Escala 1:50



Corte A
Escala 1:20



Corte B
Escala 1:20



HAMILTON LIMA PAULA:00251548694
Assinado de forma digital por HAMILTON LIMA PAULA:00251548694
Dados: 2026.08.06 13:16:43 -03'00'

PROP	ASS. 8694 HAMILTON LIMA PAULA – PREFEITO MUNICIPAL	PREFEITURA MUNICIPAL DE MARLIÉRIA/MG	ESCALA INDICADAS
RT	ASS. LUIZ JOSE DE FREITAS:34506853687 Assinado de forma digital por LUIZ JOSE DE FREITAS:34506853687 Dados: 2026.08.06 11:14:59 -03'00' LUIZ JOSÉ DE FREITAS – CREA MG 177.128/D	DATA:09/2026 VISTO	PROJETO: REGIONAL DE CAVA GRANDE CONTEUDO:ARMAÇÃO DE VIGAS DO 1° PAVIMENTO LOCALIDADE: CAVA GRANDE MARLIÉRIA – MG
DES.	APROV.	APROV.	NÚMERO: FOLHA 08/15
CONF.:	DATA:		SEM ESCALA ESTR.