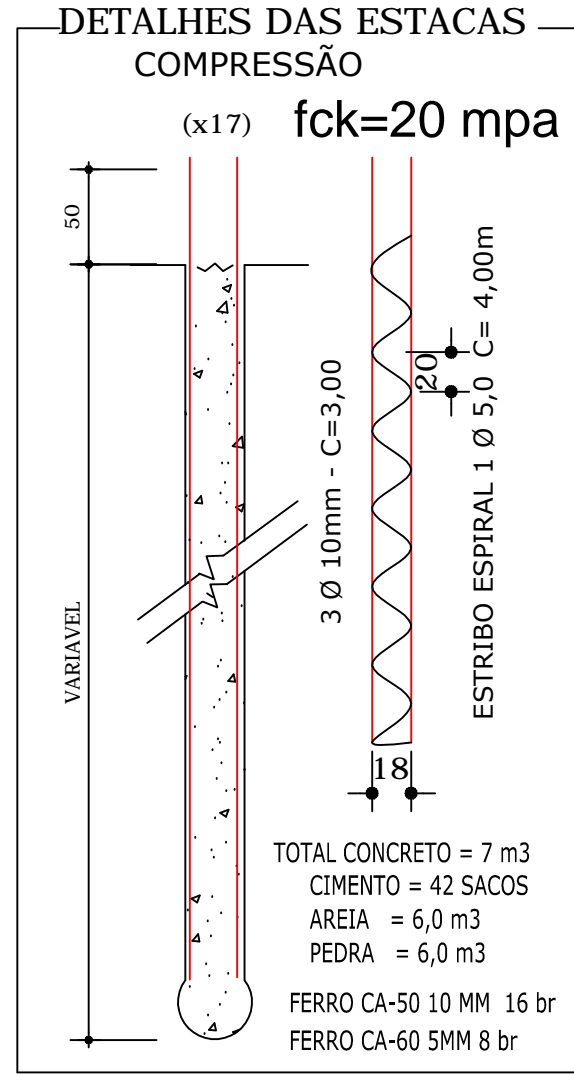
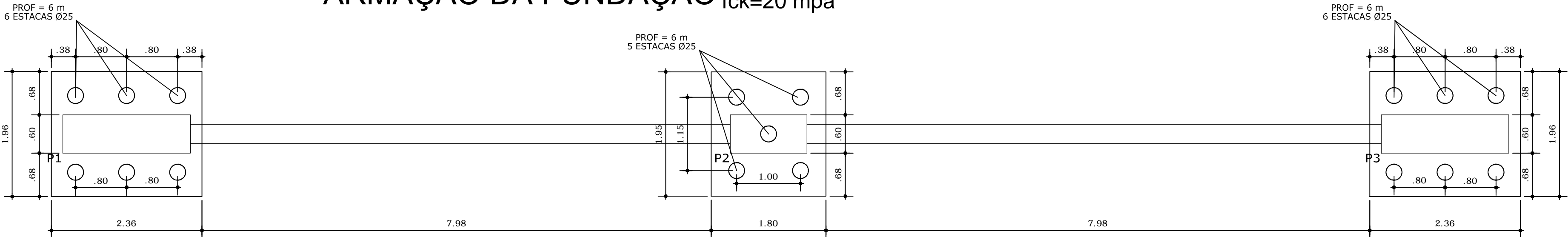
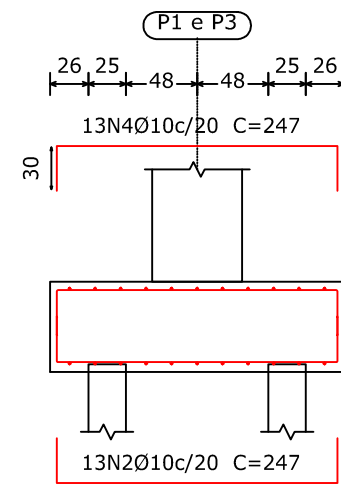
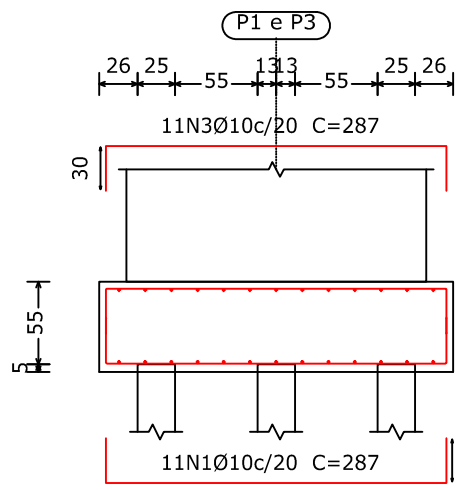


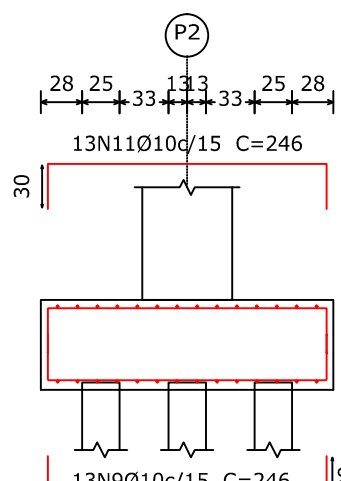
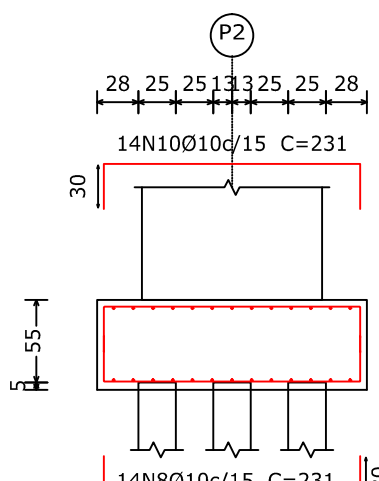
ARMAÇÃO DA FUNDAÇÃO fck=20 mpa



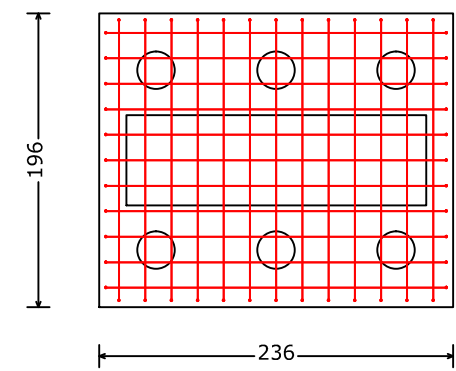
P1 e P3



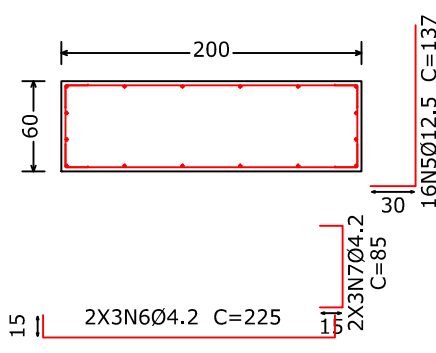
P2



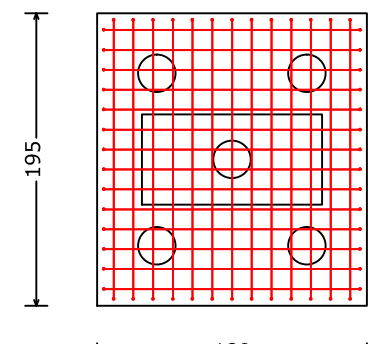
Estacas: E



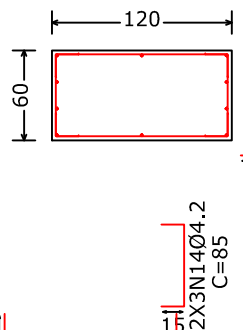
P1 e P3



Estacas: E



P2



Resumo Concreto Blocos Fundação (fck 20 mpa) = 7,55 m³

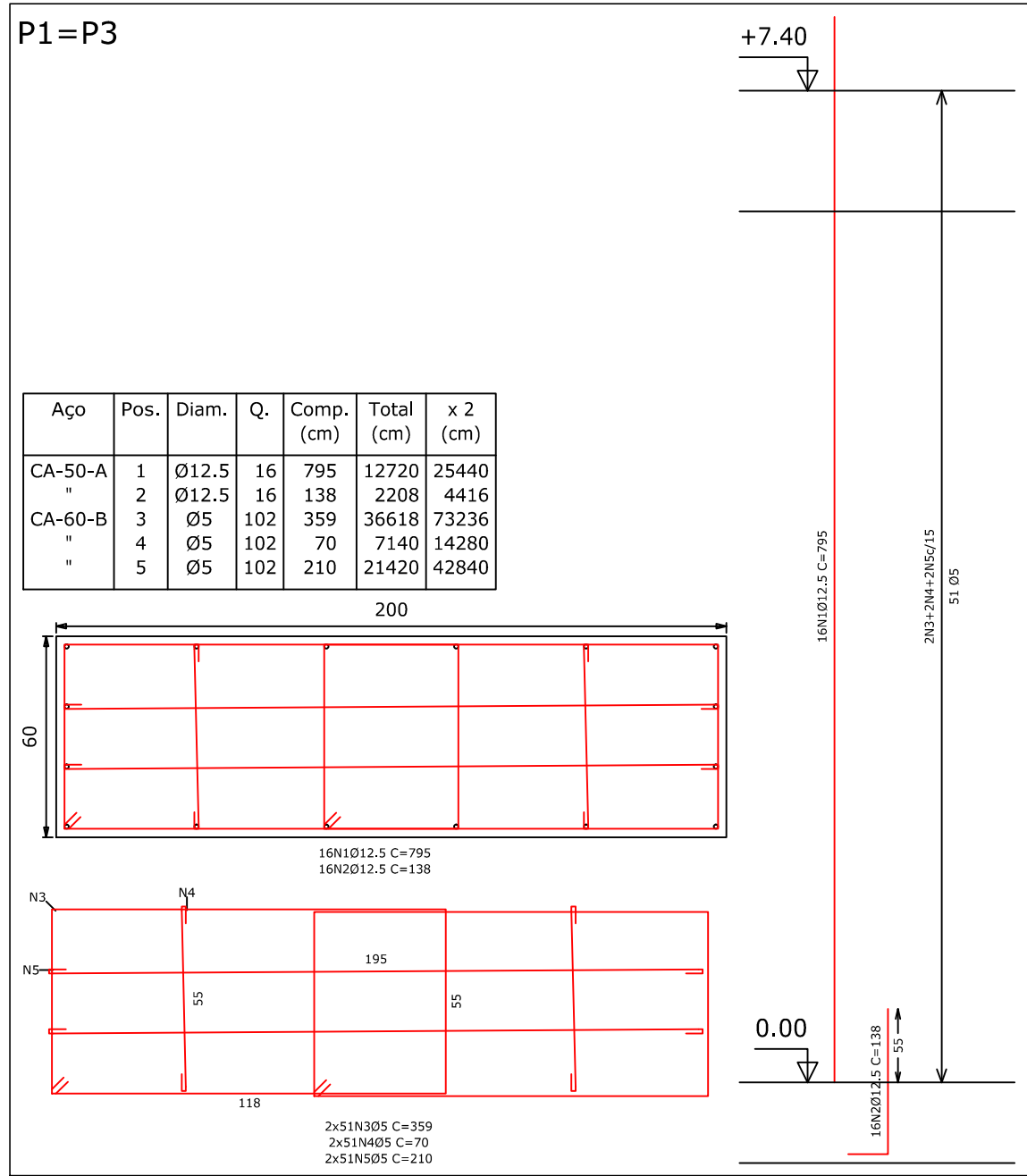
Resumo Forma Blocos Fundação = 14,86 m²

Resumo Aço Fundação = 327 kg

Resumo Aço Fundação	Comp. total (m)	Peso+10% (kg)	Total
Detalhamento fundação			
CA-50-A Ø10	396.1	274	321
CA-60-B Ø12.5	43.8	47	6
CA-60-B Ø4.2	51.0	6	6
Total			327

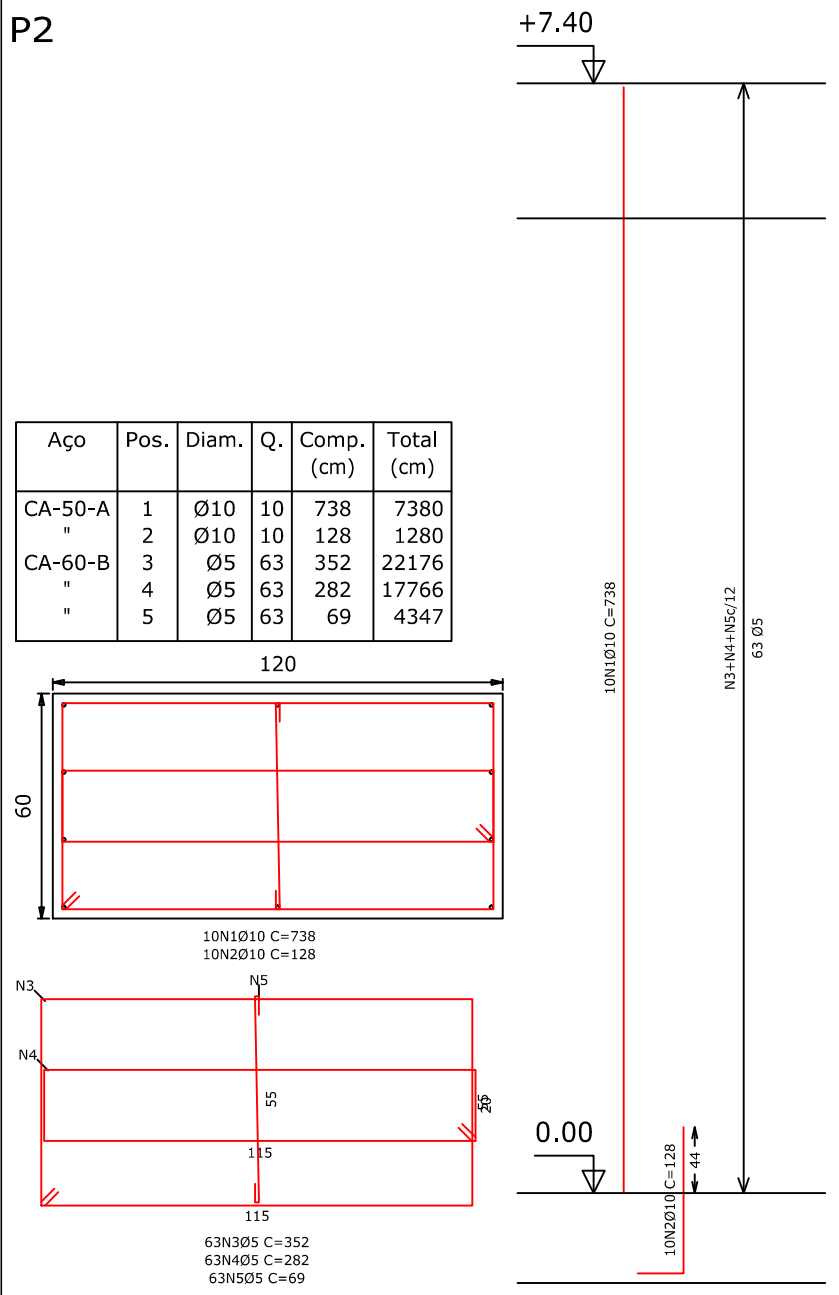
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
P1=P3	1	Ø10	11	30	227	30	287	3157	19.8	
	2	Ø10	13	30	187	30	247	3211	20.2	
	3	Ø10	11	30	227	30	287	3157	19.8	
	4	Ø10	13	30	187	30	247	3211	20.2	
	5	Ø12.5	16	30	107	137	2192	21.5		1.5
	6	Ø4.2	6	15	195	15	225	1350		0.6
	7	Ø4.2	6	15	55	15	85	510		0.6
Total+10%:									111.7	2.3
(x2):									223.4	4.6
P2	8	Ø10	14	30	171	30	231	3234	20.3	
	9	Ø10	13	30	186	30	246	3198	20.1	
	10	Ø10	14	30	171	30	231	3234	20.3	
	11	Ø10	13	30	186	30	246	3198	20.1	
	12	Ø10	10	30	97	127	1270	8.0		0.9
	13	Ø4.2	6	15	115	15	145	870		0.6
	14	Ø4.2	6	15	55	15	85	510		0.6
Total+10%:									97.7	1.7
Ø4.2:									0.0	6.3
Ø10:									273.7	0.0
Ø12.5:									47.4	0.0
Total:									321.1	6.3

ARMAÇÃO DOS PILARES fck=20 mpa

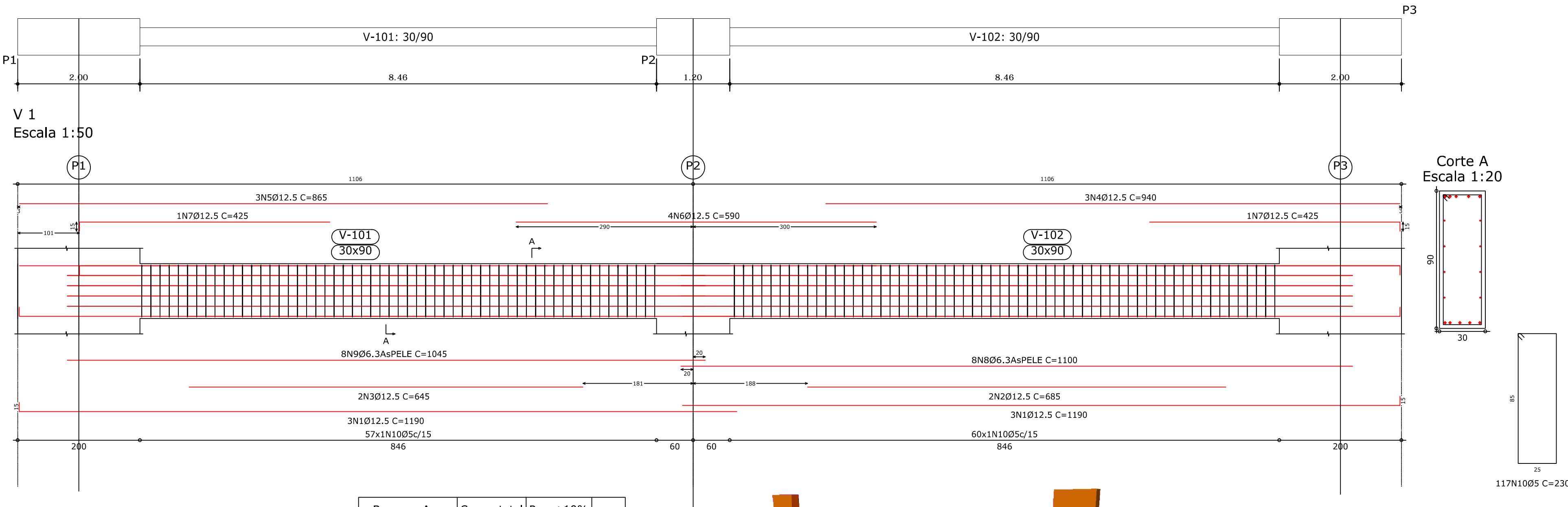


Pilares que terminam em VIGA
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala horizontal: 1:20
Escala vertical: 1:50

Resumo Aço VIGA Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø10	86.6	60	382
CA-60-B Ø5	1746.5	302	302
Total			684



ARMAÇÃO DA VIGA fck=20 mpa



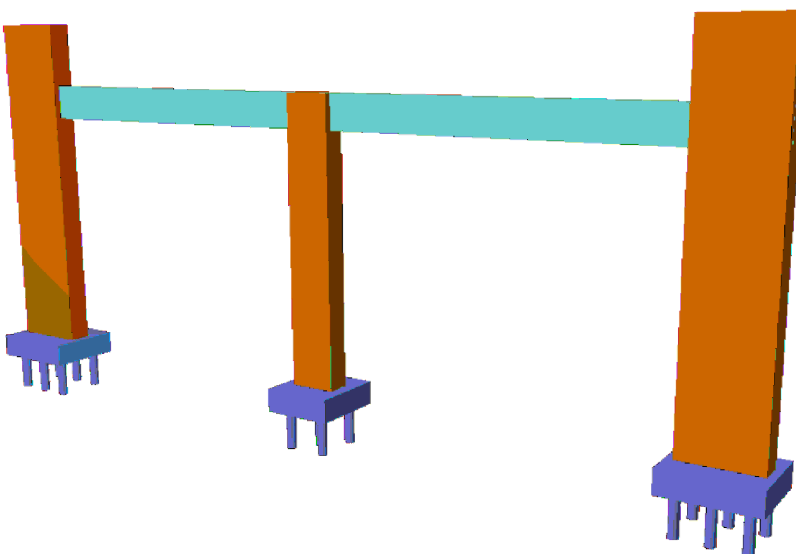
Resumo Aço VIGA Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø6.3	171.6	47	246
CA-60-B Ø12.5	184.3	199	46
CA-60-B Ø5	269.1	46	46
Total			292

Resumo Concreto Viga (fck 20 mpa) = 6,12 m³

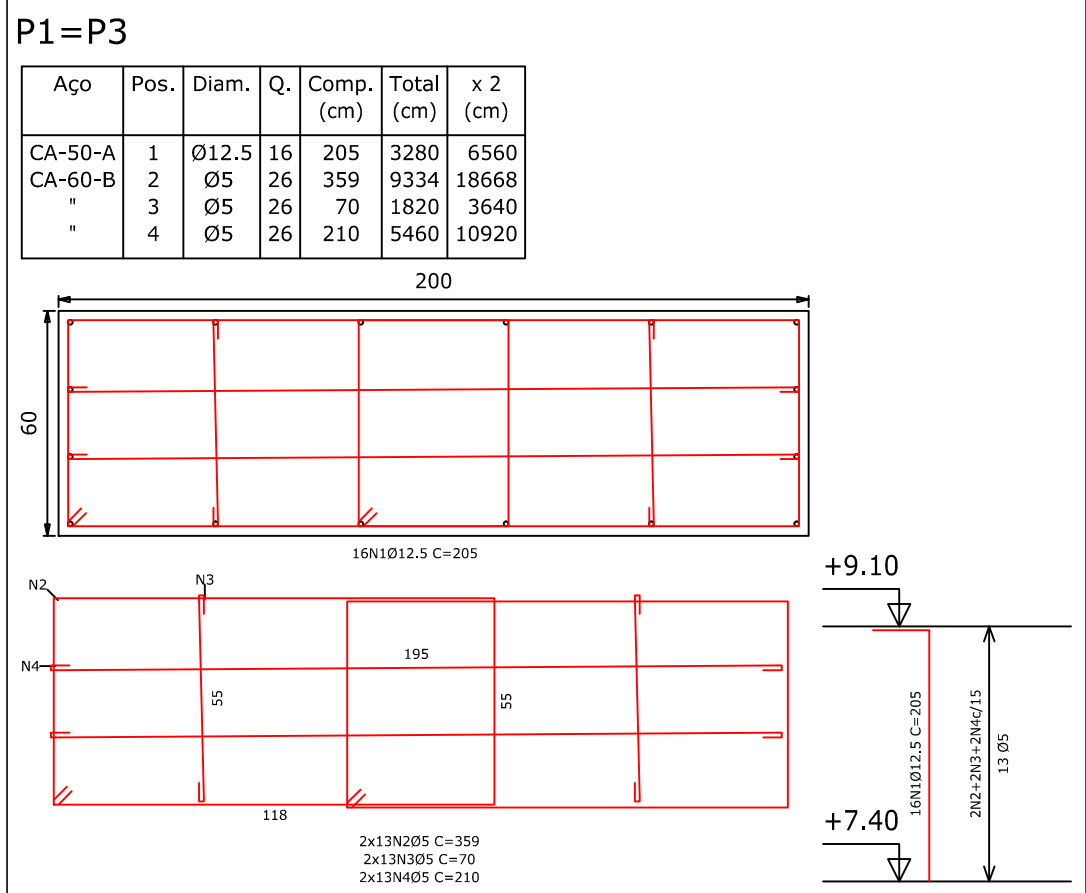
Resumo Formas Viga = 36,64 m²

Resumo Aço Viga = 292 kg

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	Ø12.5	6	15	1175	1190	7140	70.1		
	2	Ø12.5	2	685	1370	13.4	685	1370	13.4	
	3	Ø12.5	2	645	645	1290	12.7	645	12.7	
	4	Ø12.5	3	940	940	2820	27.7	940	27.7	
	5	Ø12.5	3	865	865	2595	25.5	865	25.5	
	6	Ø12.5	4	590	590	2360	23.2	590	23.2	
	7	Ø12.5	2	410	425	850	8.3	425	8.3	
	8	Ø6.3	8	1100	1100	8800	21.8	1100	21.8	
	9	Ø6.3	8	1045	1045	8360	20.7	1045	20.7	42.2
	10	Ø5	117	230	26910	230	26910	230	26910	46.4
Total+10%:									245.7	46.4
Ø5:									0.0	46.4
Ø6.3:									46.7	0.0
Ø12.5:									199.0	0.0
Total:									245.7	46.4



PERSPECTIVA ESTRUTURA



Resumo Aço LATERAL Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø12.5	65.6	71	71
CA-60-B Ø5	332.3	57	57
Total			128

Resumo Concreto Pilares (fck 20 mpa) = 24,36 m³

Resumo Forma Pilares = 108,60 m²

Resumo Aço Pilares = 813 kg

PROJETO ESTRUTURAL

OBRA	PORTAL ENTRADA	DISCRIMINAÇÃO	DATA
LOCAL	RODOVIA DE ACESSO	fck=20 mpa fyk=5000kg/cm2	MARÇO/2022
PROPRIETÁRIO	PREFEITURA MUNICIPAL DE INDIANÓPOLIS		REVISÃO
DESCRIÇÃO	ARMAÇÃO DA FUNDAÇÃO, VIGA E PILARES		FOLHA ÚNICA