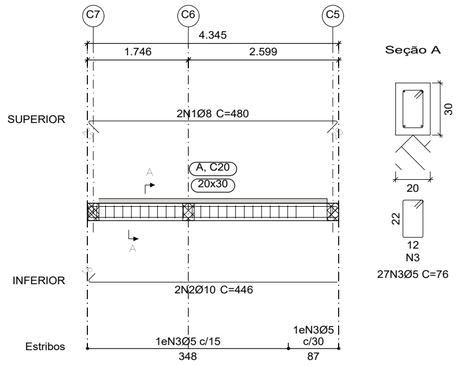
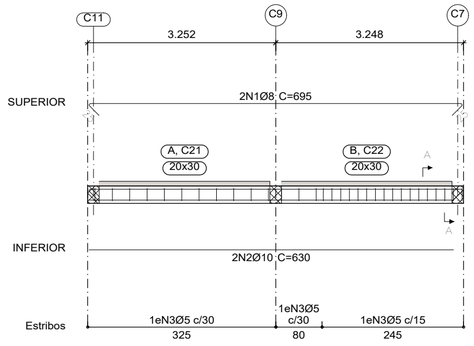
V 17
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros



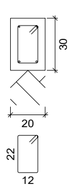
Seção A

27N3Ø5 C=76

V 18
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros

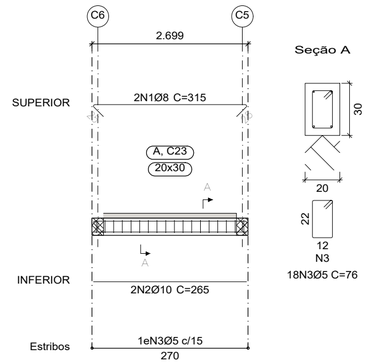


Seção A



31N3Ø5 C=76

V 19
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros

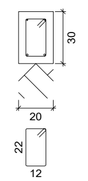


Seção A

18N3Ø5 C=76

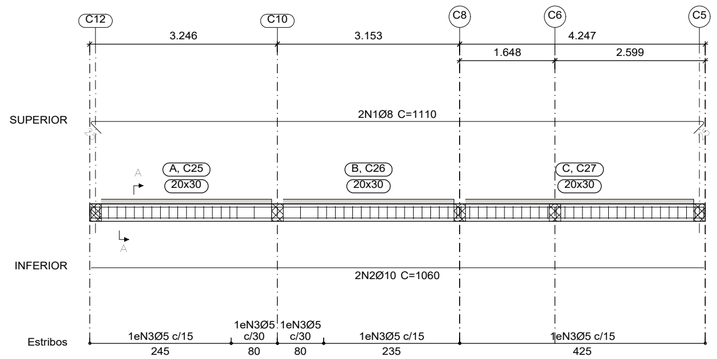
V 25
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros

V25
V25(20/30)C=10,60m

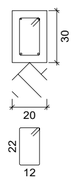


Ø5 C=76 C/15

V 20
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros

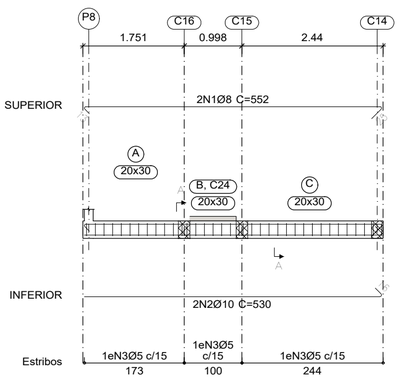


Seção A

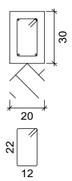


68N3Ø5 C=76

V 21
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros

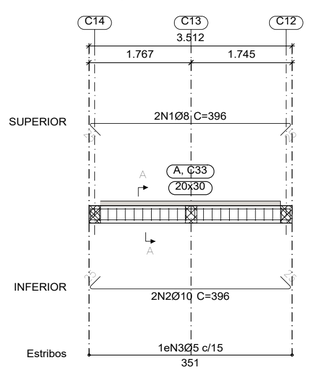


Seção A

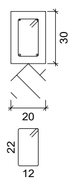


36N3Ø5 C=76

V 22
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros

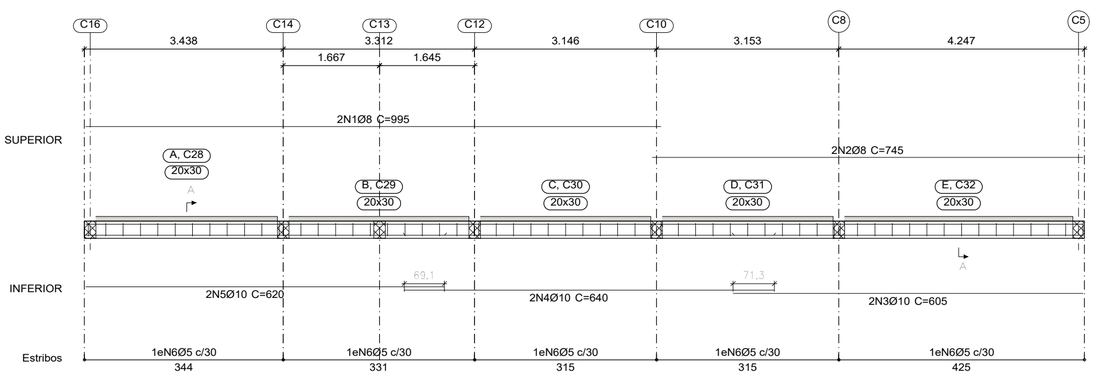


Seção A

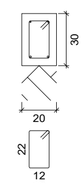


24N3Ø5 C=76

V 23
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros

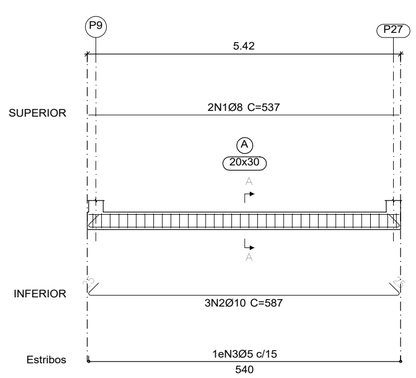


Seção A

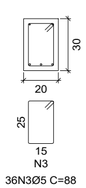


61N6Ø5 C=76

V 24
Escala vigas 1:75
Escala seções 1:25
Ver esperas no detalhamento de pilares ou vista de muros



Seção A



36N3Ø5 C=88

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 17	1	Ø8	2	430 (15 / 25)	480	960	3.8	
	2	Ø10	2	430 (15)	446	892	5.5	
	3	Ø5	27	22 / 5 / 12	76	2052		3.2
					Total+10%:		10.2	3.5
V 18	1	Ø8	2	645 (15 / 25)	695	1390	5.5	
	2	Ø10	2	630	630	1260	7.8	
	3	Ø5	31	22 / 5 / 12	76	2356		3.7
					Total+10%:		14.6	4.1
V 19	1	Ø8	2	265 (15 / 25)	315	630	2.5	
	2	Ø10	2	265	265	530	3.3	
	3	Ø5	18	22 / 5 / 12	76	1368		2.1
					Total+10%:		6.4	2.3
V 20	1	Ø8	2	1060 (15 / 25)	1110	2220	8.8	
	2	Ø10	2	1060	1060	2120	13.1	
	3	Ø5	68	22 / 5 / 12	76	5168		8.1
					Total+10%:		24.1	8.9
V 21	1	Ø8	2	514 (17 / 25)	552	1104	4.4	
	2	Ø10	2	514 (15)	530	1060	6.5	
	3	Ø5	36	22 / 5 / 12	76	2736		4.3
					Total+10%:		12.0	4.7
V 22	1	Ø8	2	346 (15 / 25)	396	792	3.1	
	2	Ø10	2	346 (15)	396	792	4.9	
	3	Ø5	24	22 / 5 / 12	76	1824		2.9
					Total+10%:		8.8	3.2
V 23	1	Ø8	2	995	995	1990	7.9	
	2	Ø8	2	745	745	1490	5.9	
	3	Ø10	2	605	605	1210	7.5	
	4	Ø10	2	640	640	1280	7.9	
	5	Ø10	2	620	620	1240	7.6	
	6	Ø5	61	22 / 5 / 12	76	4636		7.3
					Total+10%:		40.5	8.0
V 24	1	Ø8	2	537	537	1074	4.2	
	2	Ø10	3	537 (15 / 25)	587	1761	10.9	
	3	Ø5	36	22 / 5 / 15	88	3168		5.0
					Total+10%:		16.6	5.5
V 25	1	Ø8	2	1060	1060	2120	8.5	
	2	Ø10	2	1100 (15 / 25)	1100	2200	13.8	
	3	Ø5	66	22 / 5 / 12	78	5148		8.0
					Total+10%:		22.3	8.0
					Ø5:		0.0	48.2
					Ø8:		60.1	0.0
					Ø10:		96.2	0.0
					Total:		156.3	48.2

Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø6.3	21.9	6	
	Ø8	438.7	200	
	Ø10	264.2	194	400
CA-60	Ø5	904.7	164	164
Total				564

Fundação
Desenho de vigas
Concreto: C25, usina.rigor
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:75
Escala seções 1:25
Escala aberturas 1:25

PROJETO ESTRUTURAL - PSF - PINHALZINHO

ESTRUTURAL - DESENHO DE VIGAS DE FUNDAÇÃO/ MURO / ALAMBRADO

LOCAL: BAIRRO DO PINHALZINHO
MUNICÍPIO: ITAPEVA-MG
DATA: AGOSTO / 2026
ESCALA: 1: 50

SECRETARIA MUNICIPAL DE OBRAS:
PREFEITURA MUNICIPAL DE ITAPEVA-MG

PEDRO LUIZ BARBOSA
ENGENHEIRO CIVIL
CREA 5061455123D

FOLHA Nº 03/10