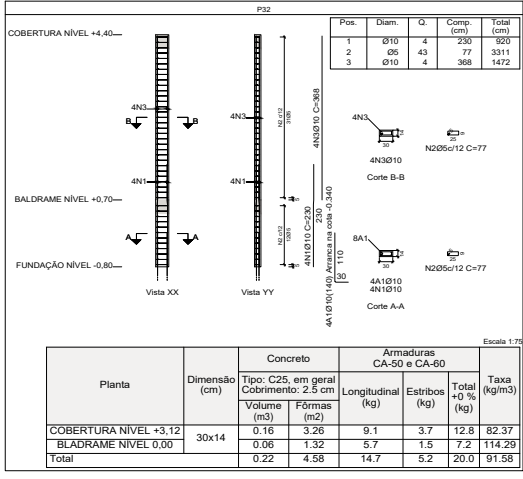
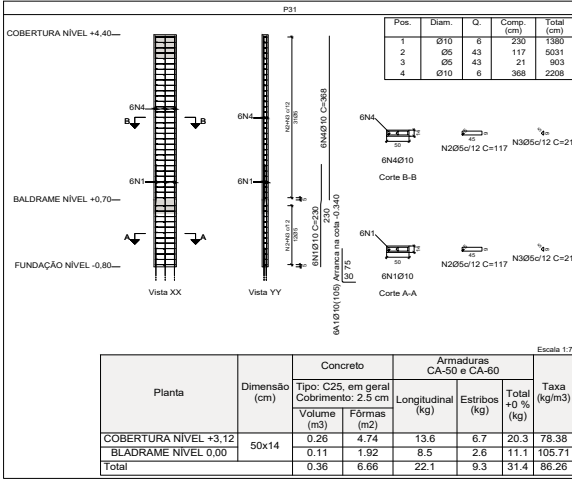
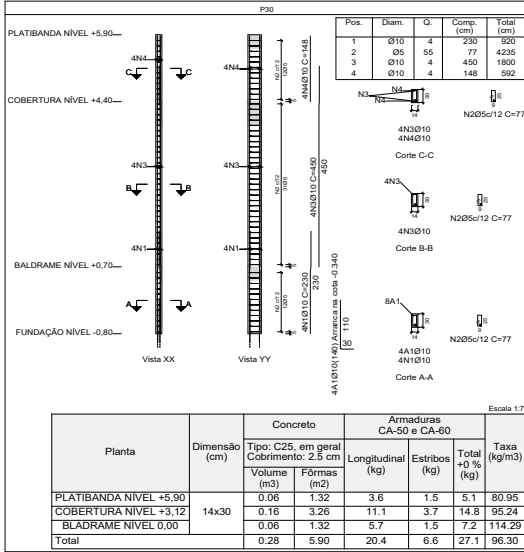




Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P30	1	Ø10	4		230	920	5.7	
	2	Ø5	55		77	4235		6.6
	3	Ø10	4		450	1800	11.1	
	4	Ø10	4		148	592	3.6	
Total:							20.4	6.6
P31	1	Ø10	6		230	1380	8.5	
	2	Ø5	43		117	5031		7.9
	3	Ø5	43		21	903		1.4
	4	Ø10	6		368	2208	13.6	
Total:							22.1	9.3

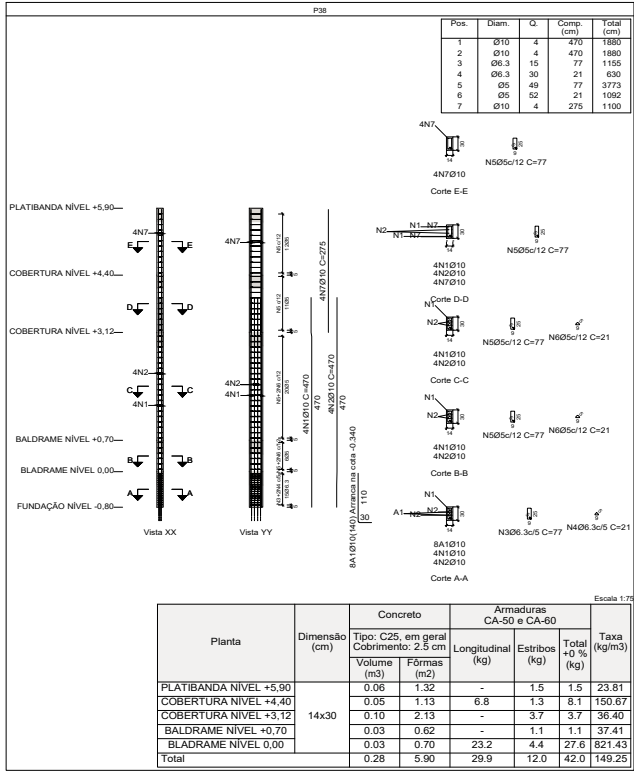
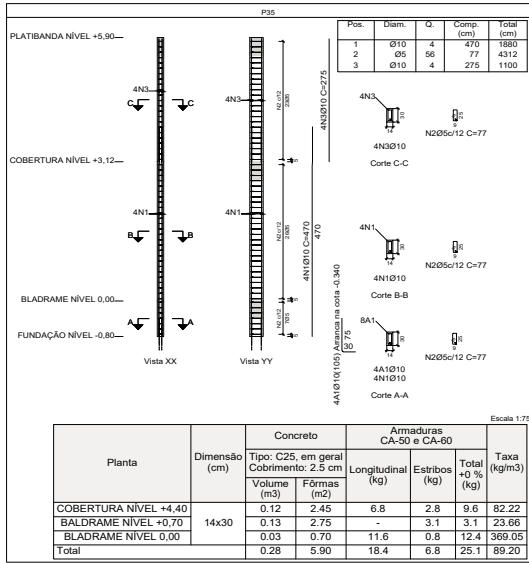
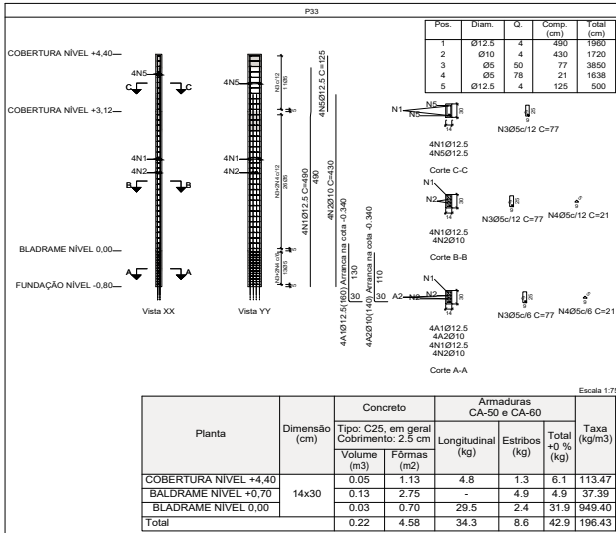
							Ø5:	0.0	15.9
							Ø10:	42.5	0.0
							Total:	42.5	15.9

							0.0	13.6
						Ø10:	36.8	0.0
						Total:	36.8	13.6
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P38	1	Ø10	4		470	1880	11.6	
	2	Ø10	4			1880	11.6	
	3	Ø6.3	15		77	1155	2.8	
	4	Ø6.3	30		21	630	1.5	
	5	Ø5	49		77	3773		5.9
	6	Ø5	52		21	1092		1.7
	7	Ø10	4		275	1100	6.8	
Total:							34.3	7.6

							Ø5:	0.0	13.6
							Ø10:	36.8	0.0
							Total:	36.8	13.6

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P38	1	Ø10	4		470	1880	11.6	
	2	Ø10	4		470	1880	11.6	
	3	Ø6.3	15		77	1155		2.8
	4	Ø6.3	30		21	630		1.5
	5	Ø5	49		77	3773		5.9
	6	Ø5	52		21	1092		1.7
	7	Ø10	4		275	1100	6.8	
Total:							34.3	7.6

							Ø5:	0.0	7.6
							Ø6.3:	4.3	0.0
							Ø10:	30.0	0.0
							Total:	34.3	7.6

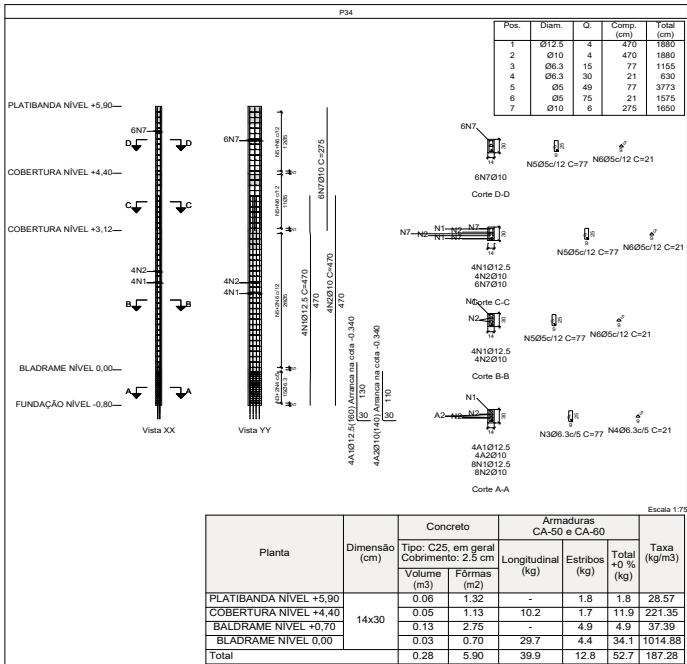
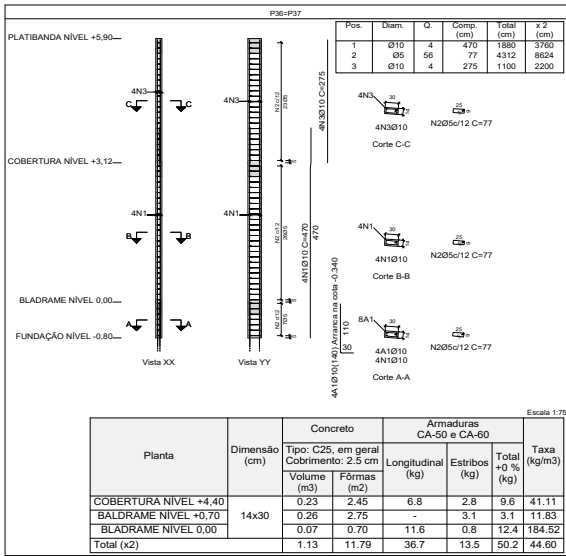


Resumo Aço	Comp. total (m)	Peso (kg)	Total
CA-50 Ø6.3	48.4	12	
Ø10	1057.6	652	
Ø12.5	79.8	77	741
CA-60 Ø5	1484.8	233	233
Total			974

LEGENDA - PILARES

Pilar que nasce

Pilar que segue



Planta	Dimensão (cm)	Concreto	Armaduras CA-50 e CA-60	Taxa (kg/m3)
PLATIBANDA NIVEL +5.90	14x30	Tipo: C25, em geral Cobrimento: 2.5 cm	Longitudinal (kg)	Estribos (kg)
			Volume (m3)	Fôrmas (m2)
			0.06	1.32
			-	1.5
			1.5	1.5
			23.81	
COBERTURA NIVEL +4.40	14x30	Tipo: C25, em geral Cobrimento: 2.5 cm	Longitudinal (kg)	Estribos (kg)
			Volume (m3)	Fôrmas (m2)
			0.05	1.13
			-	1.3
			8.1	150.67
			11.9	221.35
COBERTURA NIVEL +3.12	14x30	Tipo: C25, em geral Cobrimento: 2.5 cm	Longitudinal (kg)	Estribos (kg)
			Volume (m3)	Fôrmas (m2)
			0.13	2.75
			-	4.9
			4.9	37.39
			12.4	369.05
BALDRAME NIVEL +0.70	14x30	Tipo: C25, em geral Cobrimento: 2.5 cm	Longitudinal (kg)	Estribos (kg)
			Volume (m3)	Fôrmas (m2)
			0.03	0.62
			-	1.1
			1.1	37.41
			23.2	4.4
BALDRAME NIVEL 0.00	14x30	Tipo: C25, em geral Cobrimento: 2.5 cm	Longitudinal (kg)	Estribos (kg)
			Volume (m3)	Fôrmas (m2)
			0.03	0.70
			-	23.2
			4.4	27.8
			621.43	
FUNDACAO NIVEL -0.80	14x30	Tipo: C25, em geral Cobrimento: 2.5 cm	Longitudinal (kg)	Estribos (kg)
			Volume (m3)	Fôrmas (m2)
			0.28	5.90
			-	12.0
			42.0	149.25
			149.25	

FEDERICO DA OBRA		PROJETO ESTRUTURAL EM CONCRETO ARMADO	
RUA OLIVEIRO REIS, S/N - CENTRO - CARMO DA CACHOEIRA/MG		18.240.135/0001-90	
PREFEITURA MUNICIPAL DE CARMO DA CACHOEIRA / MG		ZONA URBANA	
CATEGORIA DE TIPO: INSTITUCIONAL		ESCALAS INDICADA	
ÁREA EM M²: A CONSTRUIR: 493,17m²		PRÓPRIETÁRIO: PREF. MUNICIPAL	
FUNDACÃO: 25MPa		AUTOR/PROJETO: JOÃO CARLOS DA SILVA JUNIOR	
BALDRAMES: 25MPa		PROJETO: JOÃO CARLOS DA SILVA JUNIOR	
PILARES: 25MPa		PROJETO: JOÃO CARLOS DA SILVA JUNIOR	
VIGAS: 25MPa		PROJETO: JOÃO CARLOS DA SILVA JUNIOR	
LAJES: 25MPa		PROJETO: JOÃO CARLOS DA SILVA JUNIOR	
CORTINAS: ---MPa		PROJETO: JOÃO CARLOS DA SILVA JUNIOR	
ART: 10/2023		PRANCHA 9/9	
CONTEÚDO: DETALHAMENTO DOS PILARES		PILARES	
RESENHO: JOÃO CARLOS DA SILVA JUNIOR - ENG. CIVIL		PILARES	