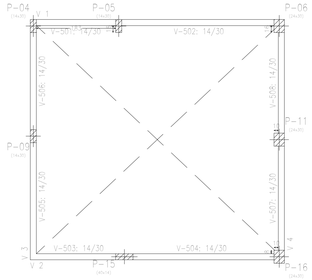
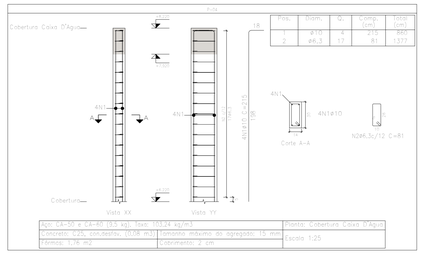
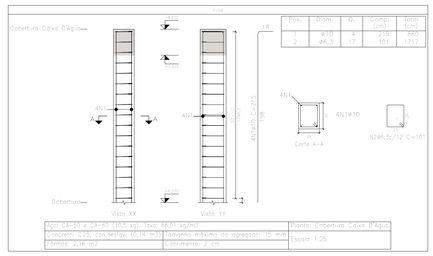
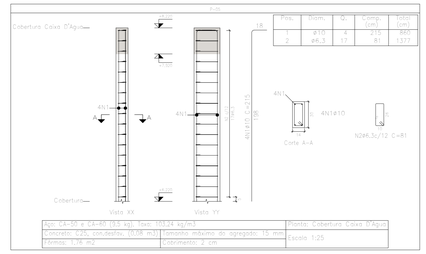
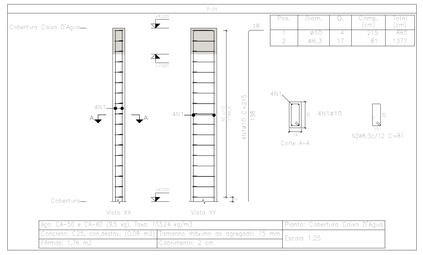


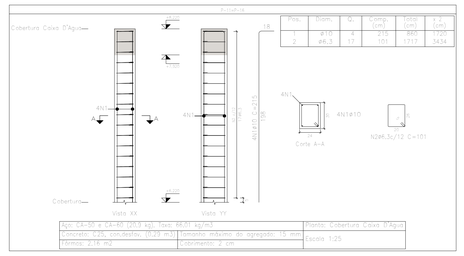
Cobertura Caixa D'Agua			
Elemento	Área superficial (m2)	Volume concreto (m3)	Área forma (m2)
Vigas	12,93	2,81	0,259
Pilares	11,32		0,670
Total	-	2,81	0,670
Indices (por m2)	-	-	0,259
Superficie total: 3,21 m2			

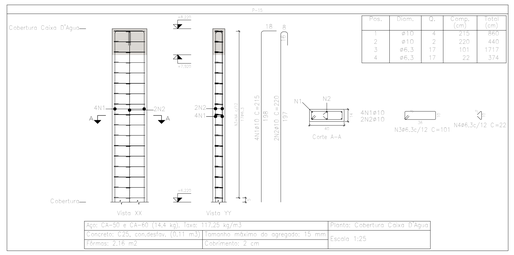








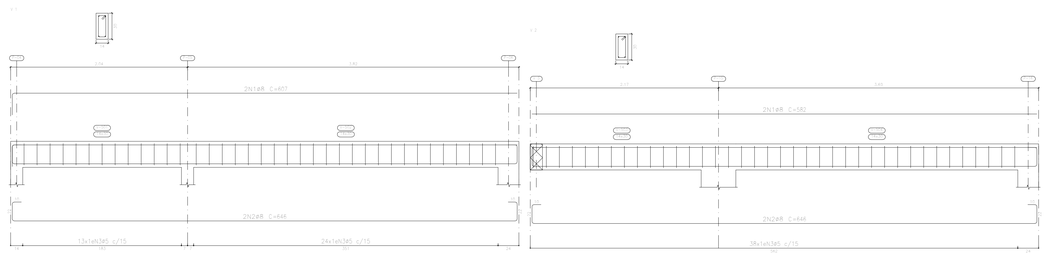




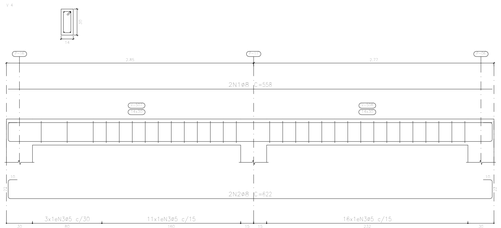
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V-1	1	ø8	1	140	607	1214	4.8	
	2	ø8	1	140	646	1292	5.1	
	3	ø5	33	20	76	2818		4.4
					Total+10%:		10.9	4.8
V-2	1	ø8	1	140	582	1164	4.6	
	2	ø8	1	140	646	1292	5.1	
	3	ø5	38	20	76	2888		4.5
					Total+10%:		10.7	5.0
V-3	1	ø8	1	140	550	1100	4.3	
	2	ø8	1	140	614	1228	4.8	
	3	ø5	33	20	76	2508		3.9
					Total+10%:		10.0	4.3
V-4	1	ø8	1	140	558	1116	4.4	
	2	ø8	1	140	622	1244	4.9	
	3	ø5	36	20	76	2280		3.6
					Total+10%:		10.2	4.0
					ø5:		7.0	18.4
					ø8:		41.8	0.0
					Total:		41.8	18.1

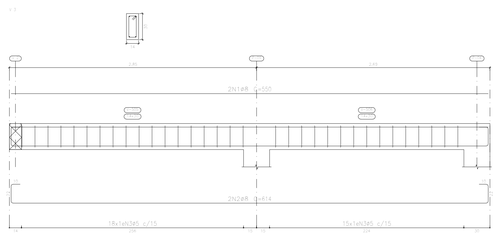
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P-08	1	ø10	4	140	215	860	5.3	
	2	ø6.3	17	101	1717	4.2		
					Total+10%:		10.5	
P-09	1	ø10	4	140	215	860	5.3	
	2	ø6.3	17	81	1377	3.4		
					Total+10%:		9.6	
P-10	1	ø10	4	140	215	860	5.3	
	2	ø6.3	17	81	1377	3.4		
					Total+10%:		9.6	
P-15	1	ø10	4	140	215	860	5.3	
	2	ø10	2	140	220	440	2.7	
	3	ø6.3	17	20	101	1717	4.2	
	4	ø6.3	17	20	22	374	0.9	
					Total+10%:		14.4	
P-11+P-16	1	ø10	4	140	215	860	5.3	
	2	ø6.3	17	20	101	1717	4.2	
					Total+10%:		10.5	
					(kg):		31.0	
					ø5:		0.0	0.0
					ø6.3:		31.0	0.0
					ø8:		0.0	0.0
					ø10:		43.6	0.0
					Total:		74.7	0.0

Resumo Aço Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50 ø6.3	113,7	31	
ø10	64,6	44	75



Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	ø8	96,5	42	42
CA-60	ø5	104,9	18	18
Total				60





Cobertura Caixa D'Agua
Desenho de vigas
Concreto: C25, con.destav.
Aço dos barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:25
Escala seções 1:25
Escala aberturas 1:25

Planta: Cobertura Caixa D'Agua
Concreto: C25, con.destav.
Aço dos barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60

PROJETO ESTRUTURAL

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Engenharia de Projetos

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CONTÉM:

cobertura caixa dagua

FOLHA 24/24

OBRA:

Sede Administrativa do Município de Serra Azul de Minas – MG

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