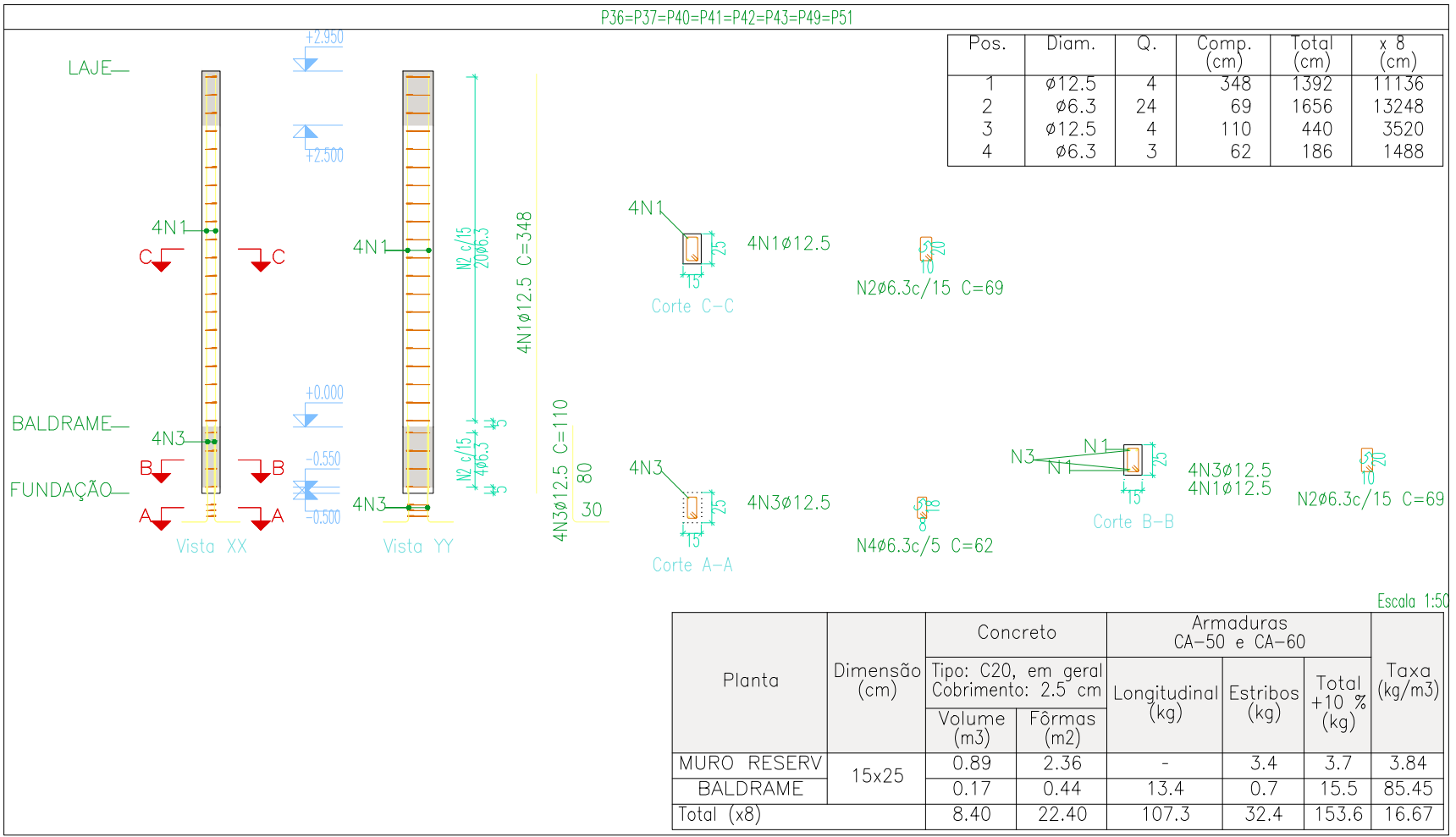
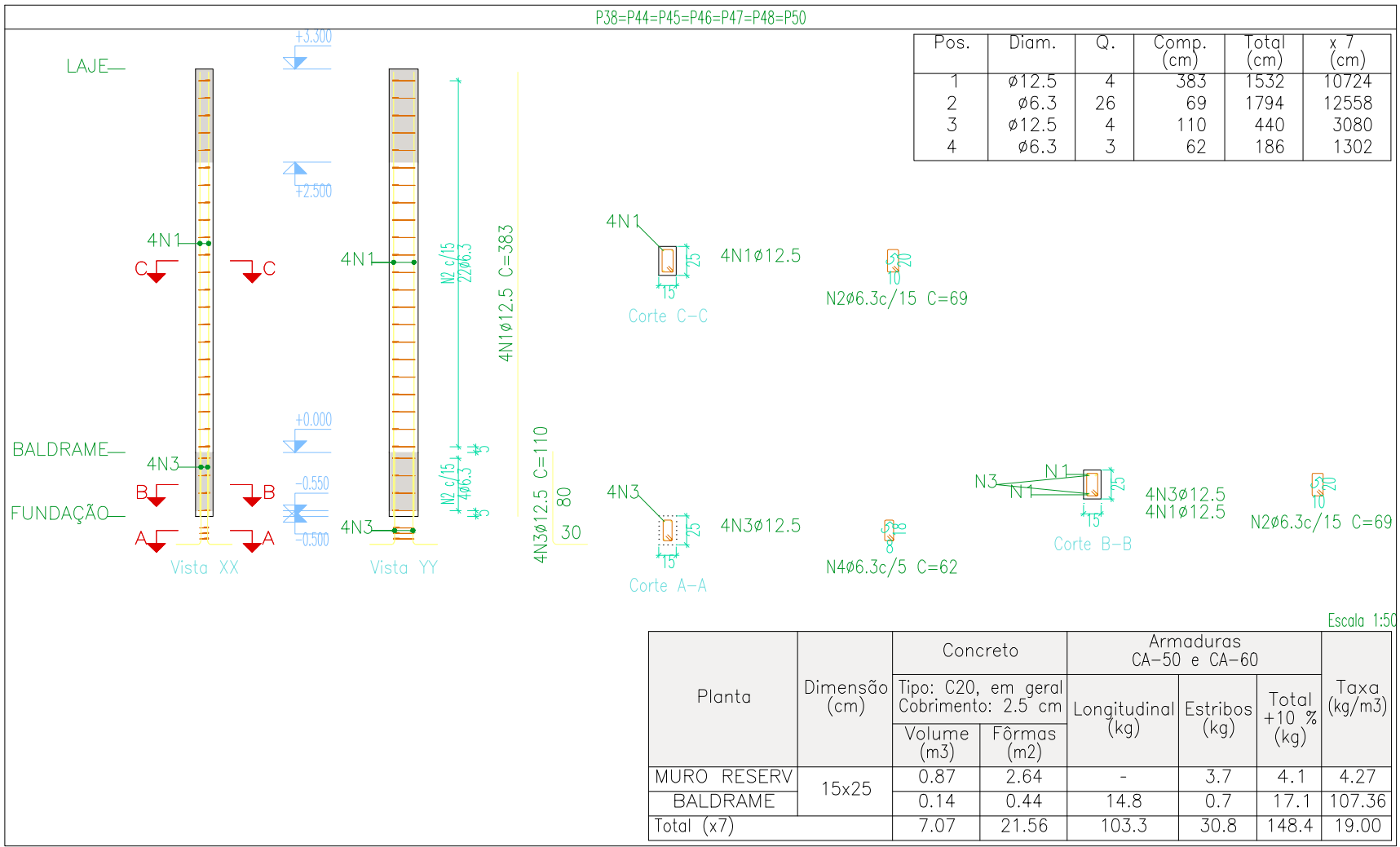
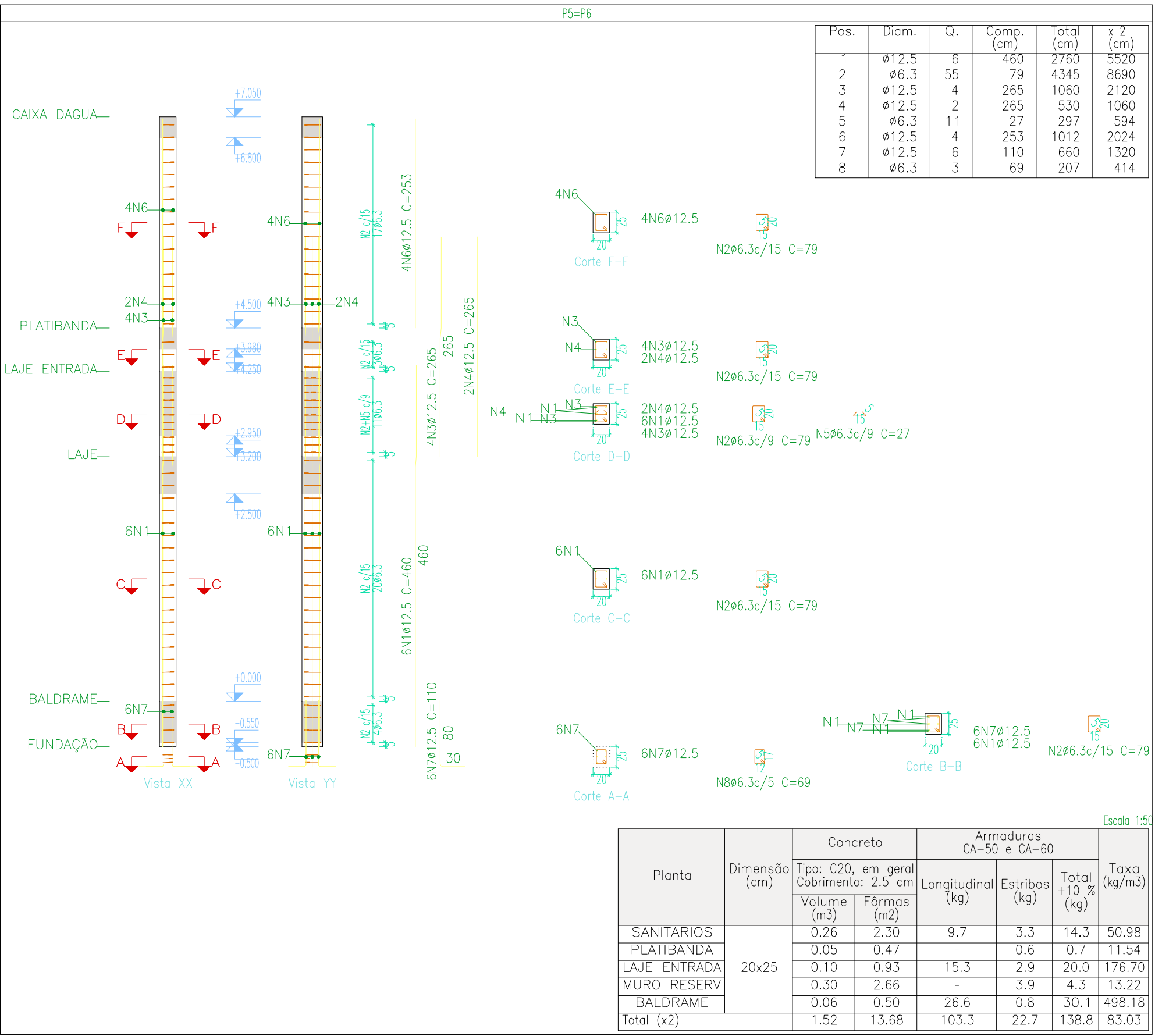
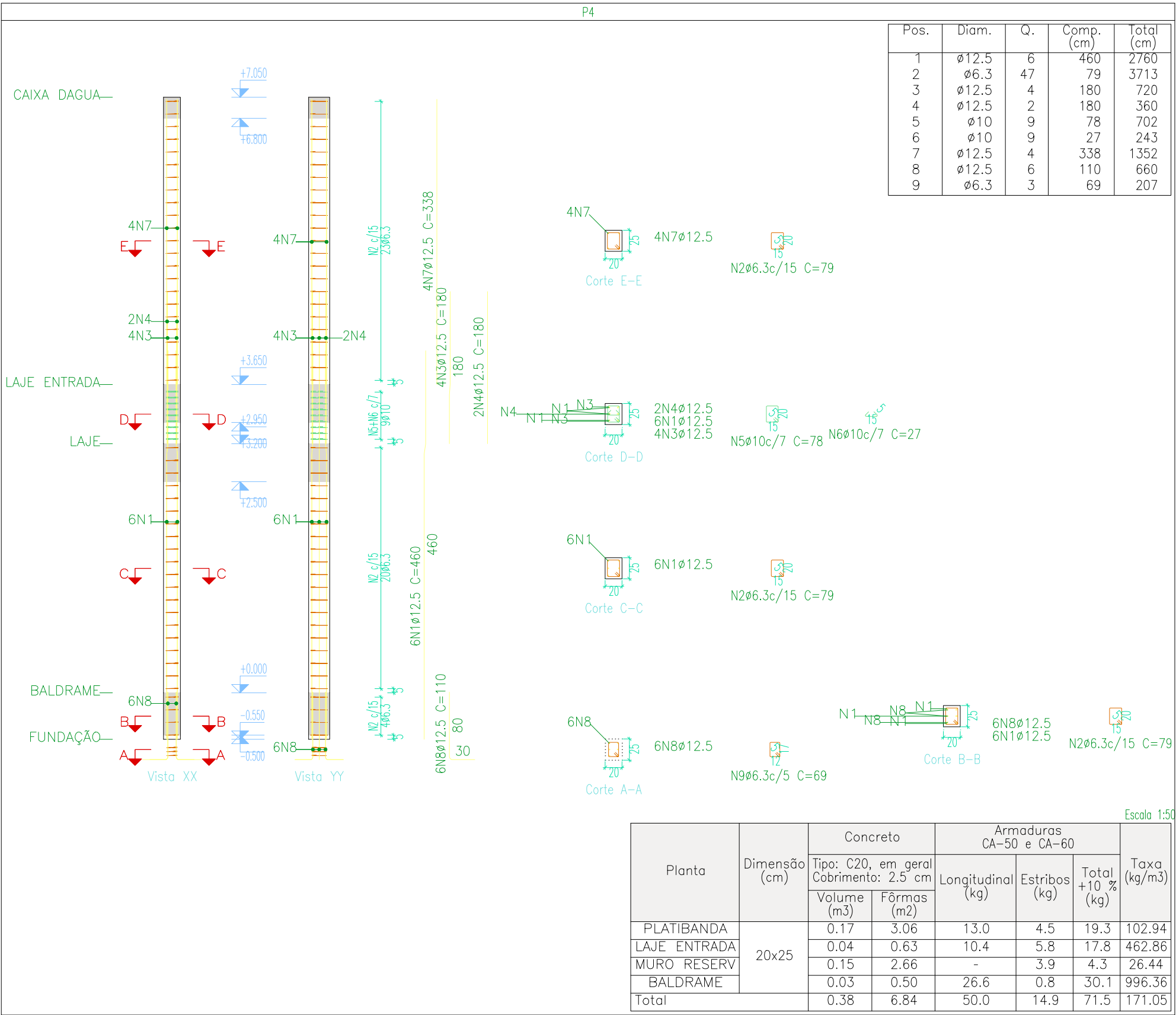


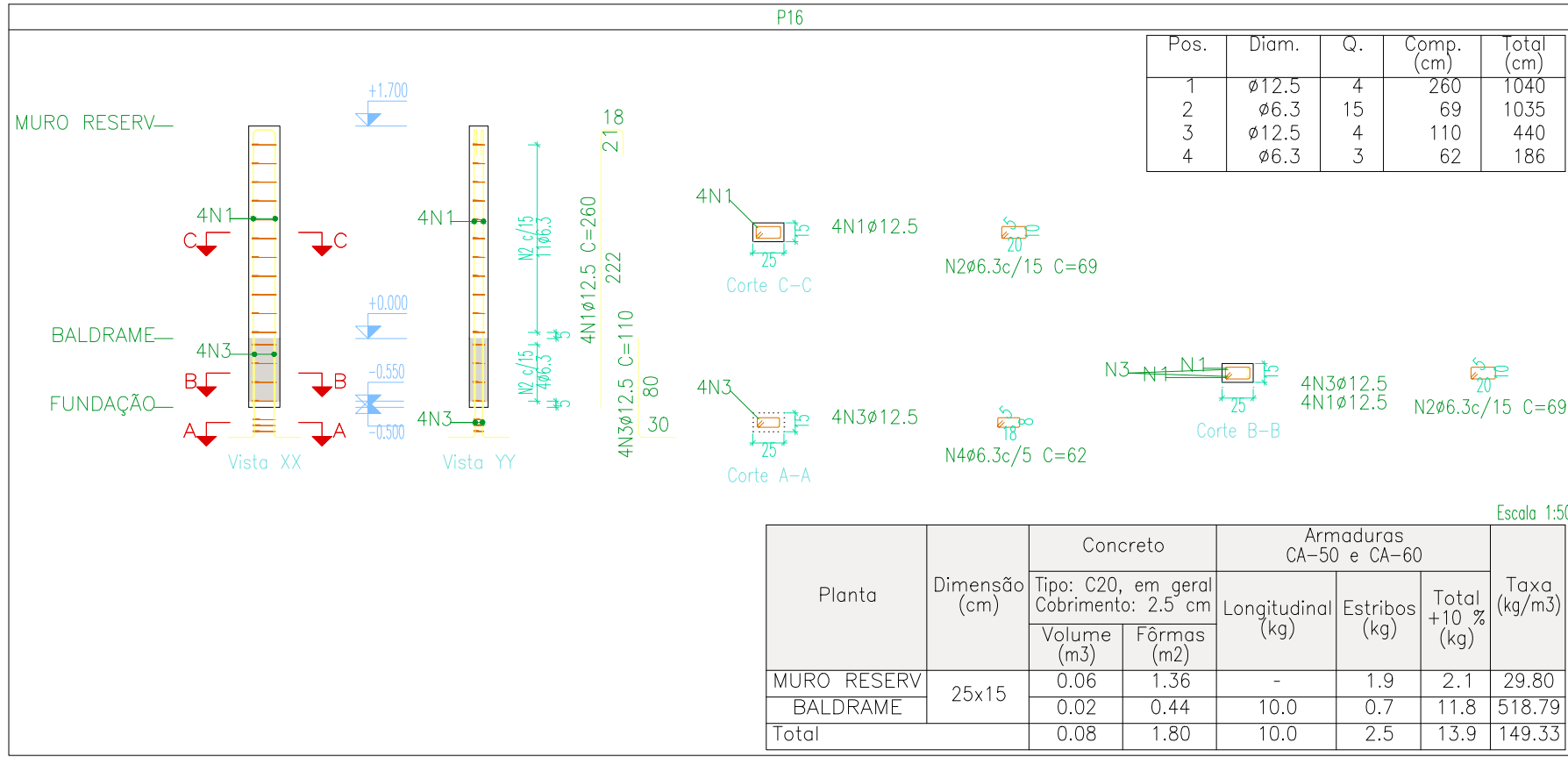


Pilares que nascem em BALDRAME e chegam em CAIXA D'AGUA
Concreto: C20, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60

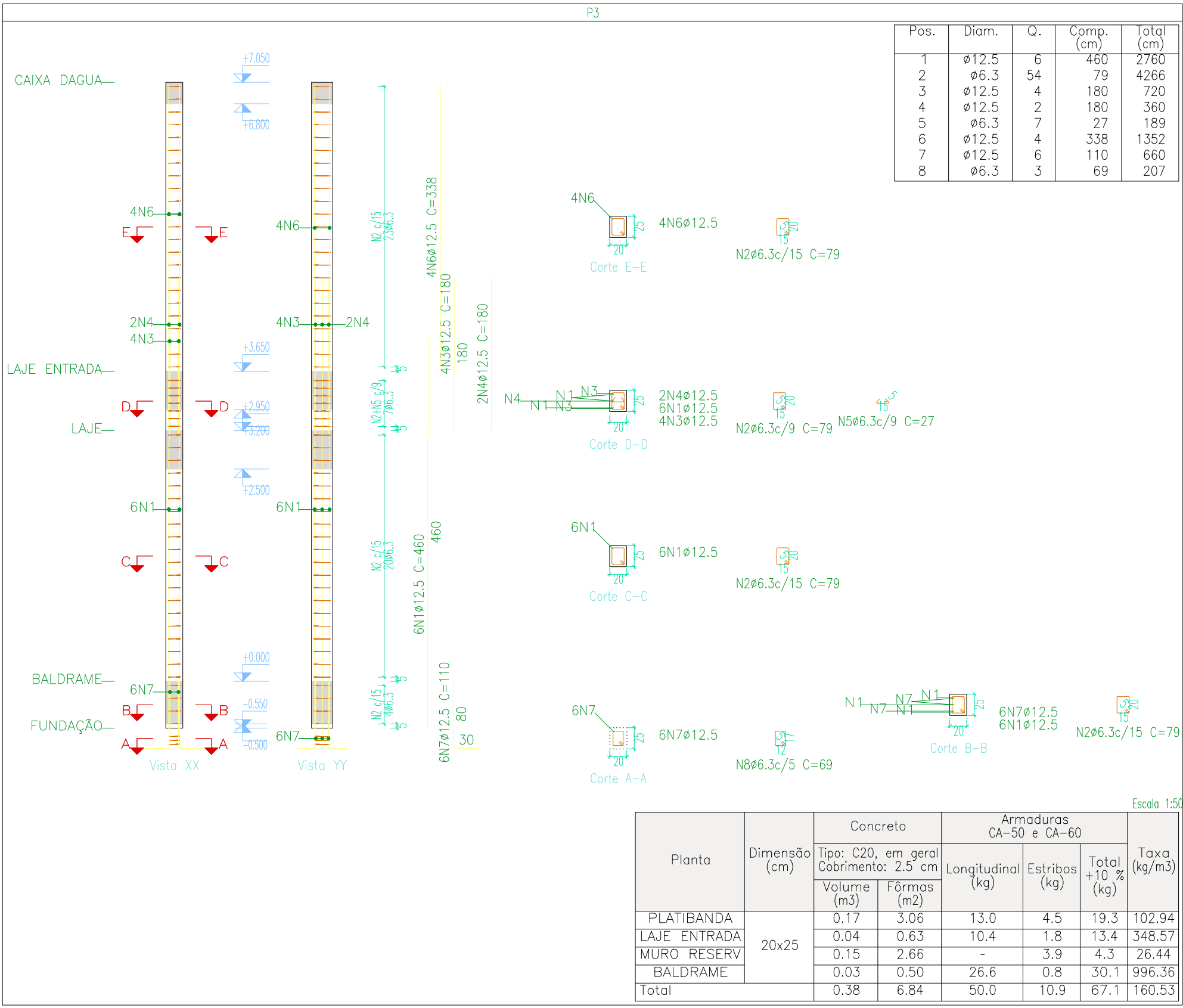
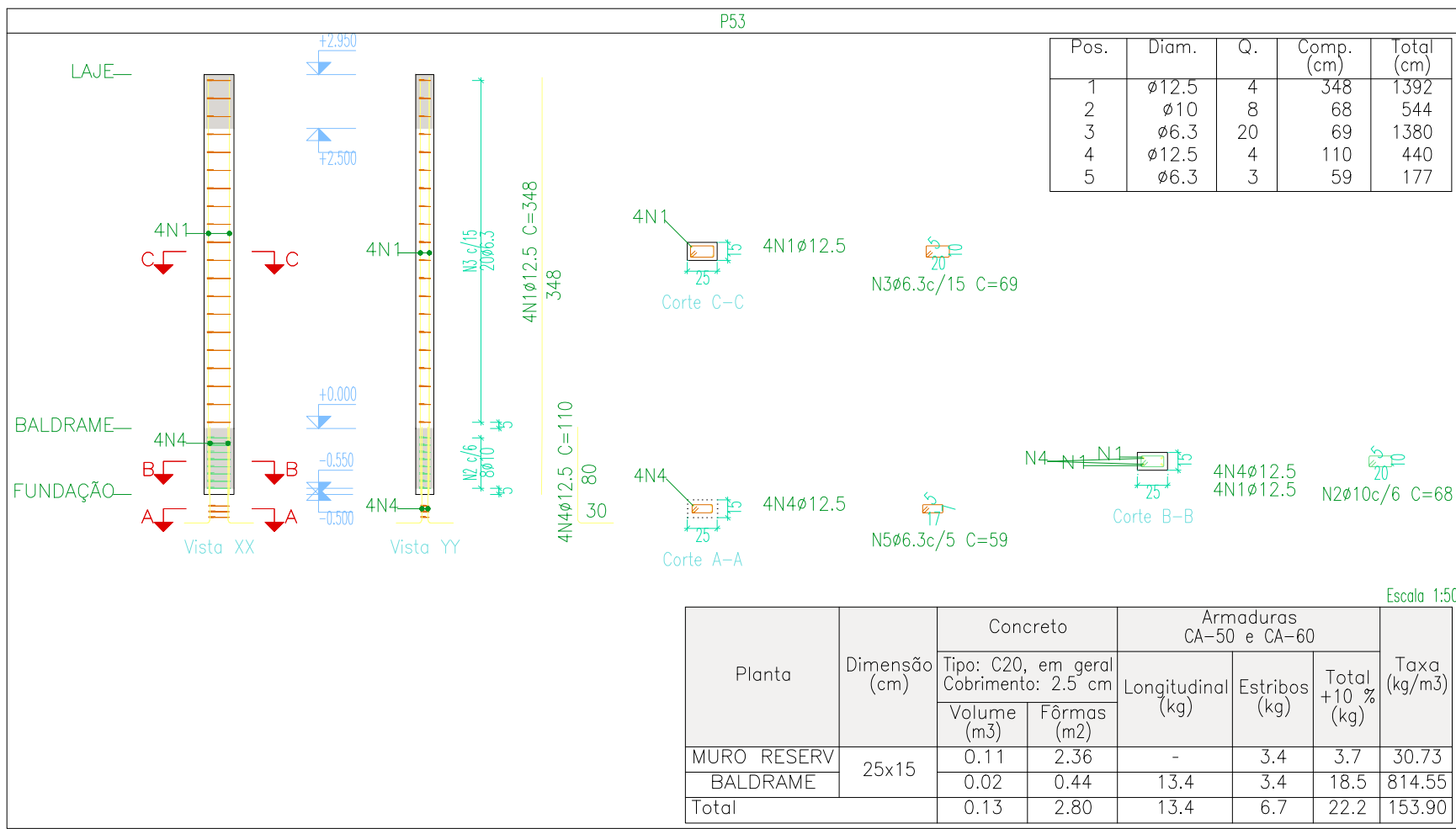
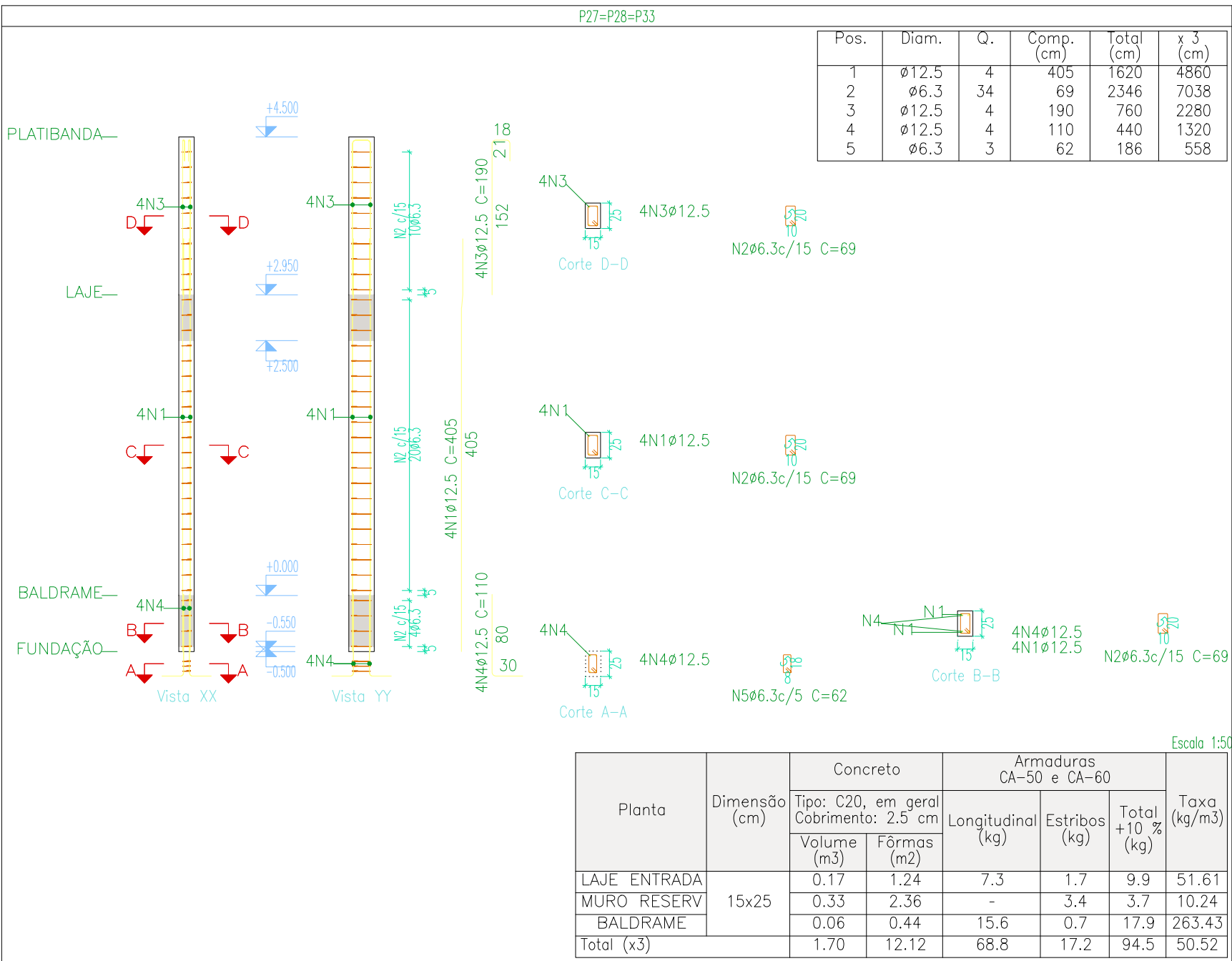


Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P38=P44=P45=P46 P47=P48=P50	1	Ø12.5	4		383	1532	14.8	
	2	Ø6.3	26		69	1794	4.4	
	3	Ø12.5	4		110	440	4.2	
	4	Ø6.3	3		62	186	0.5	
Total+10% (x7):							26.3	184.1
P4	1	Ø12.5	6		338	1310	460	2760
	2	Ø6.3	47		79	3713	9.1	
	3	Ø12.5	4		180	720	6.9	
	4	Ø12.5	2		180	360	3.5	
	5	Ø10	9		78	702	4.3	
	6	Ø10	9		27	243	1.5	
	7	Ø12.5	4		338	1352	13.0	
	8	Ø12.5	6		110	660	6.4	
	9	Ø6.3	3		69	207	0.5	
Total+10%:							79.0	
P36=P37=P40=P41 P42=P43=P49=P51	1	Ø12.5	4		348	1392	13.4	
	2	Ø6.3	24		69	1656	4.1	
	3	Ø12.5	4		110	440	4.2	
	4	Ø6.3	3		62	186	0.5	
Total+10% (x8):							24.4	195.2
P5=P6	1	Ø12.5	6		338	1310	460	2760
	2	Ø6.3	55		79	4345	10.6	
	3	Ø12.5	4		265	1060	10.2	
	4	Ø12.5	2		265	530	5.1	
	5	Ø6.3	11		27	297	0.7	
	6	Ø12.5	4		253	1012	9.7	
	7	Ø12.5	6		110	660	6.4	
	8	Ø6.3	3		69	207	0.5	
Total+10% (x2):							76.8	153.6
							Ø6.3:	114.4
							Ø10:	6.4
							Ø12.5:	491.1
							Total:	611.9
								0.0
								0.0
								0.0

Projeto:	ESTRUTURAL	Data:	25-04-2024
Local:	PAINES-MG		
Nome:	UBS - ALVORADA		
Des.no.:	Planta: PILAR ESTRUTURAL		
Autor:	CHRISTIAN CARLOS DA SILVA TEIXEIRA		

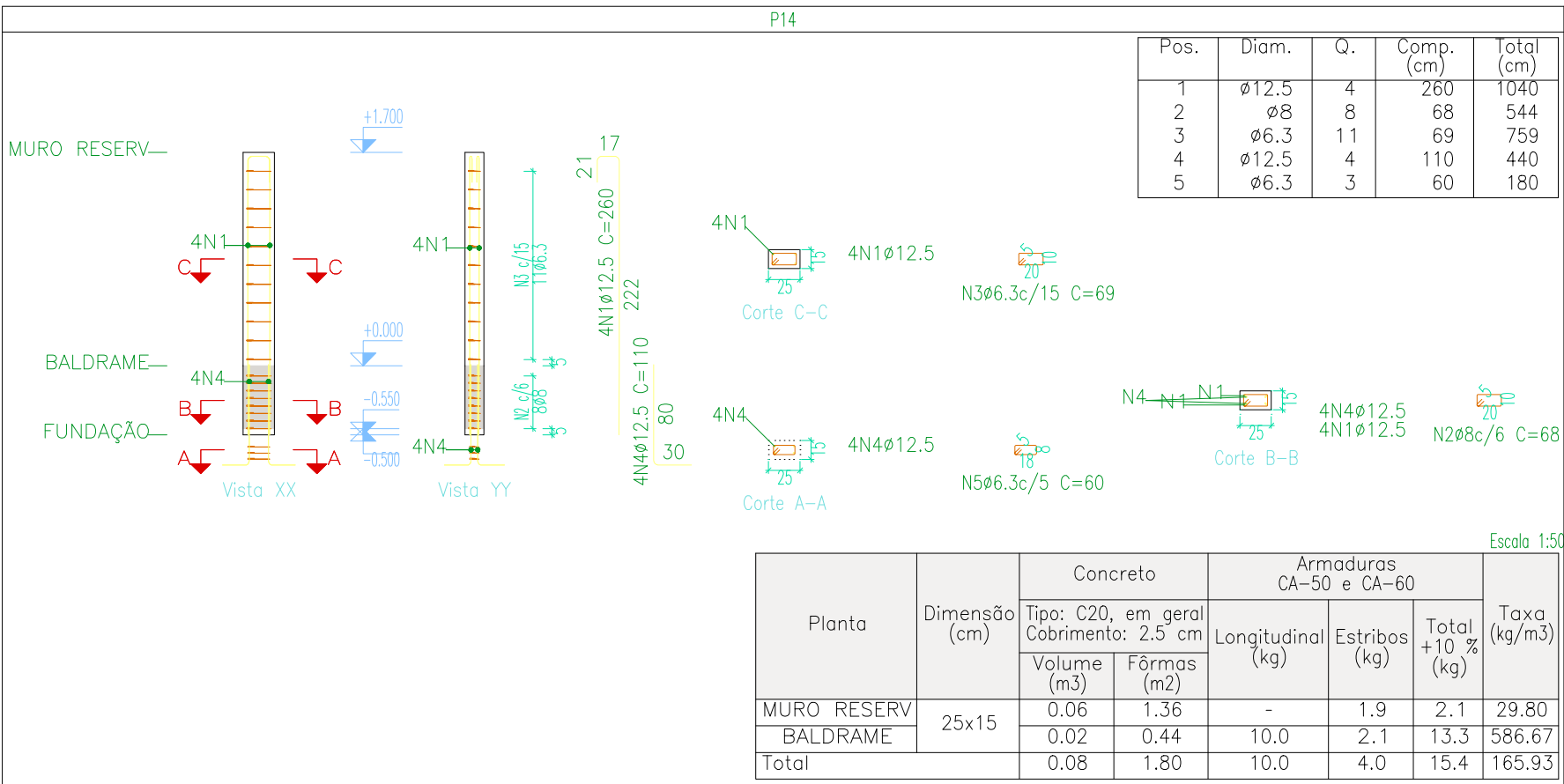


Pilares que nascem em BALDRAME e chegam em CAIXA DAGUA
Concreto: C20, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60

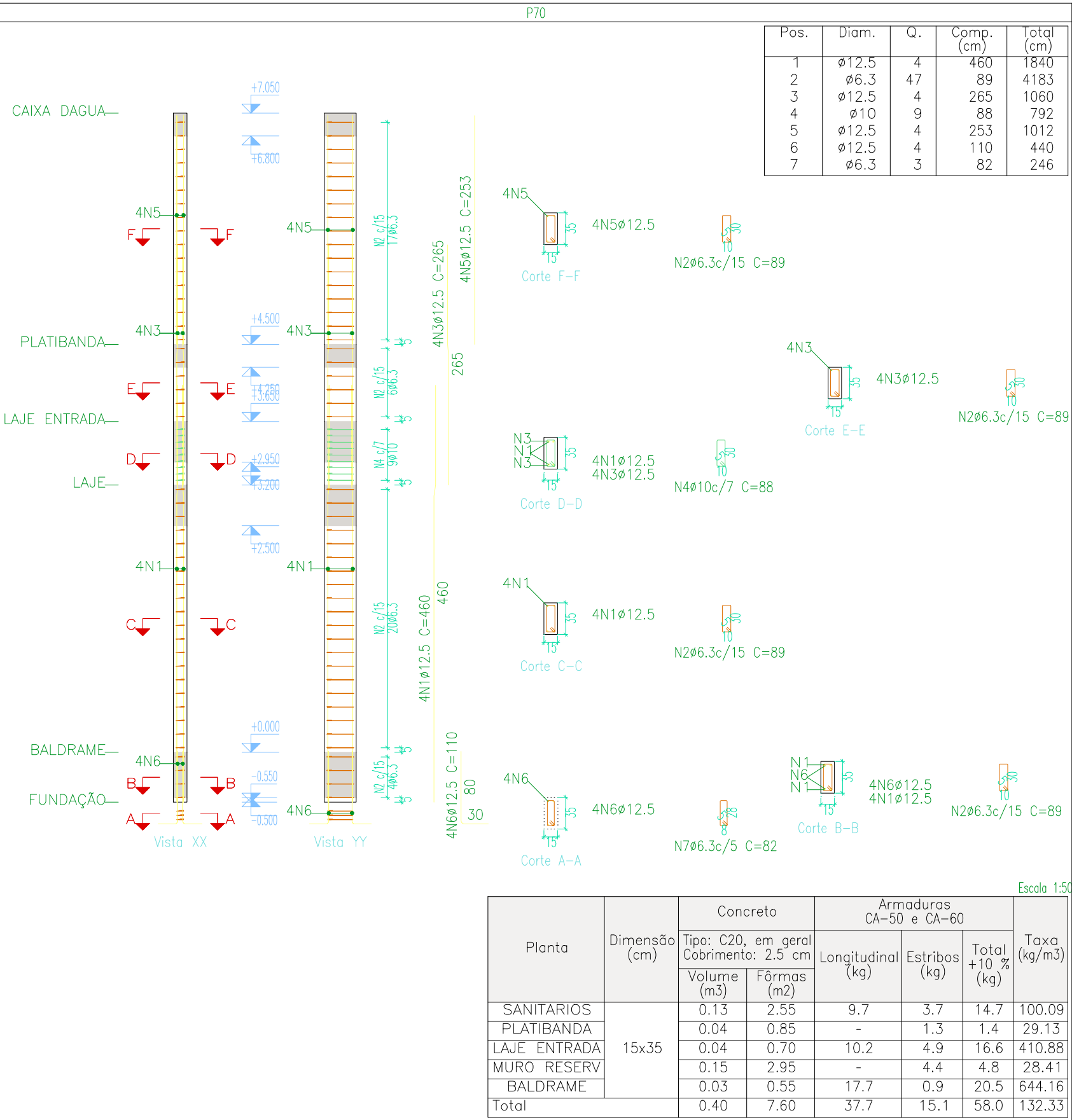
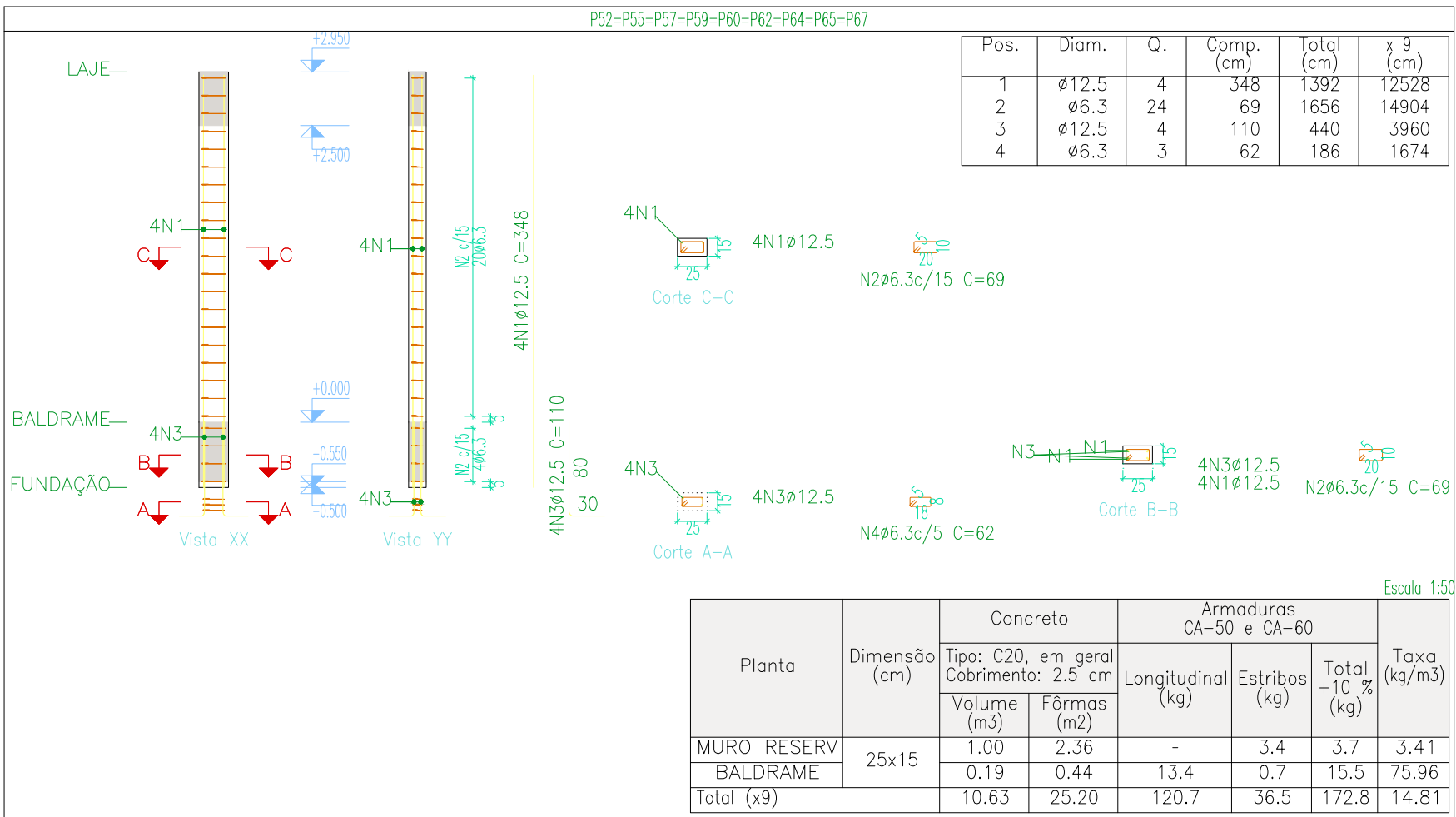
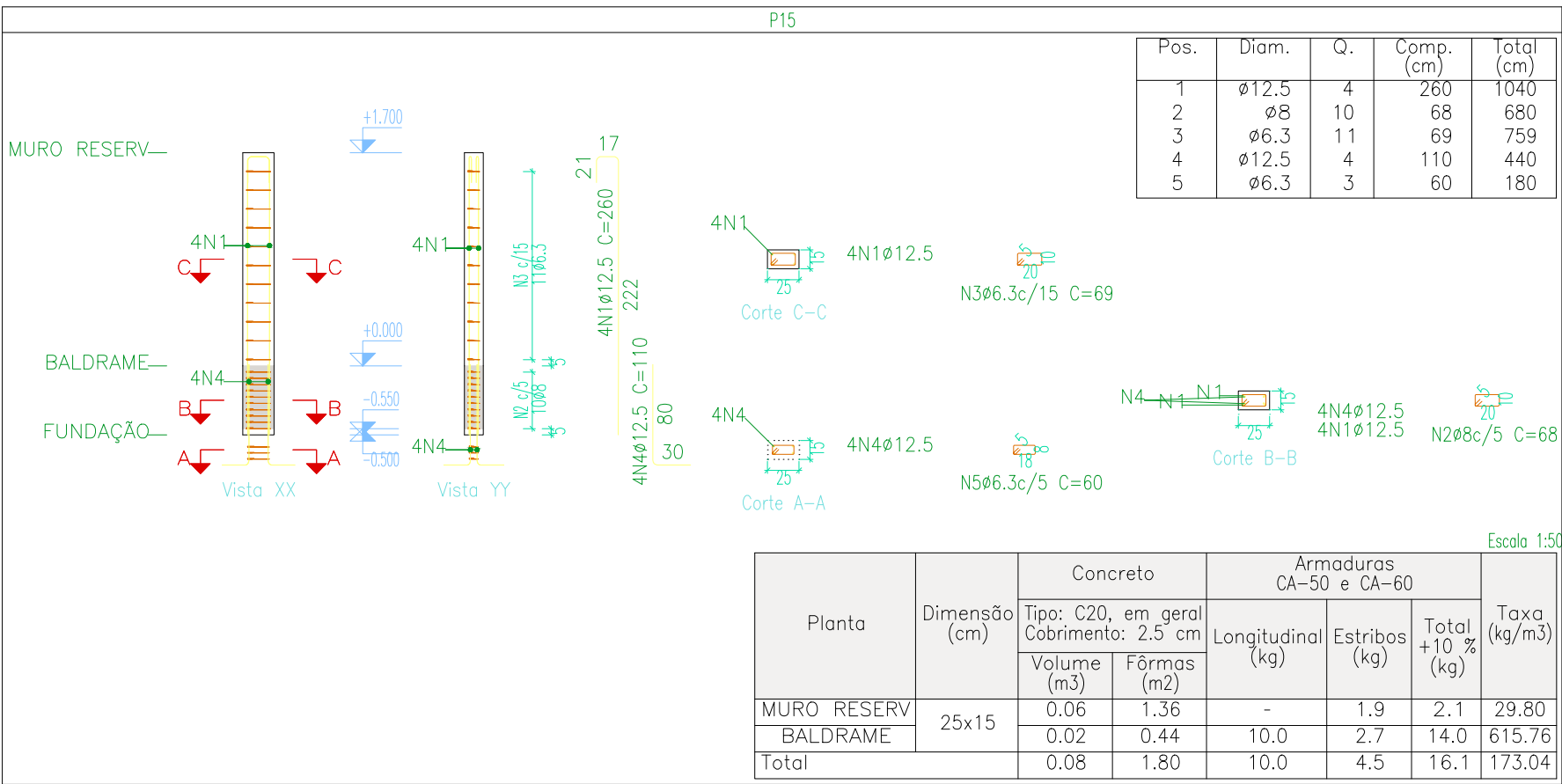


Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P16	1	ø12.5	4		260	1040	10.0	
	2	ø6.3	15		69	1035	2.5	
	3	ø12.5	4		110	440	4.2	
	4	ø6.3	3		62	186	0.5	
Total+10%							18.9	
P53	1	ø12.5	4		348	1392	13.4	
	2	ø10	8		68	544	3.4	
	3	ø6.3	20		69	1380	3.4	
	4	ø12.5	4		110	440	4.2	
	5	ø6.3	3		59	177	0.4	
Total+10%							27.3	
P27=P28=P33	1	ø12.5	4		405	1620	15.6	
	2	ø6.3	34		69	2346	5.7	
	3	ø12.5	4		190	760	7.3	
	4	ø12.5	4		110	440	4.2	
	5	ø6.3	3		62	186	0.5	
Total+10%							36.6 (x3)	109.8
P3	1	ø12.5	6		460	2760	26.6	
	2	ø6.3	54		79	4266	10.4	
	3	ø12.5	4		180	720	6.9	
	4	ø12.5	2		180	360	3.5	
	5	ø6.3	7		27	189	0.5	
	6	ø12.5	4		338	1352	13.0	
	7	ø12.5	6		110	660	6.4	
	8	ø6.3	3		69	207	0.5	
Total+10%							74.6	
							ø6.3: 40.5	0.0
							ø10: 3.7	0.0
							ø12.5: 186.4	0.0
							Total: 230.6	0.0

Projeto:	ESTRUTURAL	Data:	25-04-2024
Local:	PAINES-MG		
Nome:	UBS - ALVORADA		
Des.no.:	Planta:	PILAR ESTRUTURAL	
Autor:	CHRISTIAN CARLOS DA SILVA TEIXEIRA		



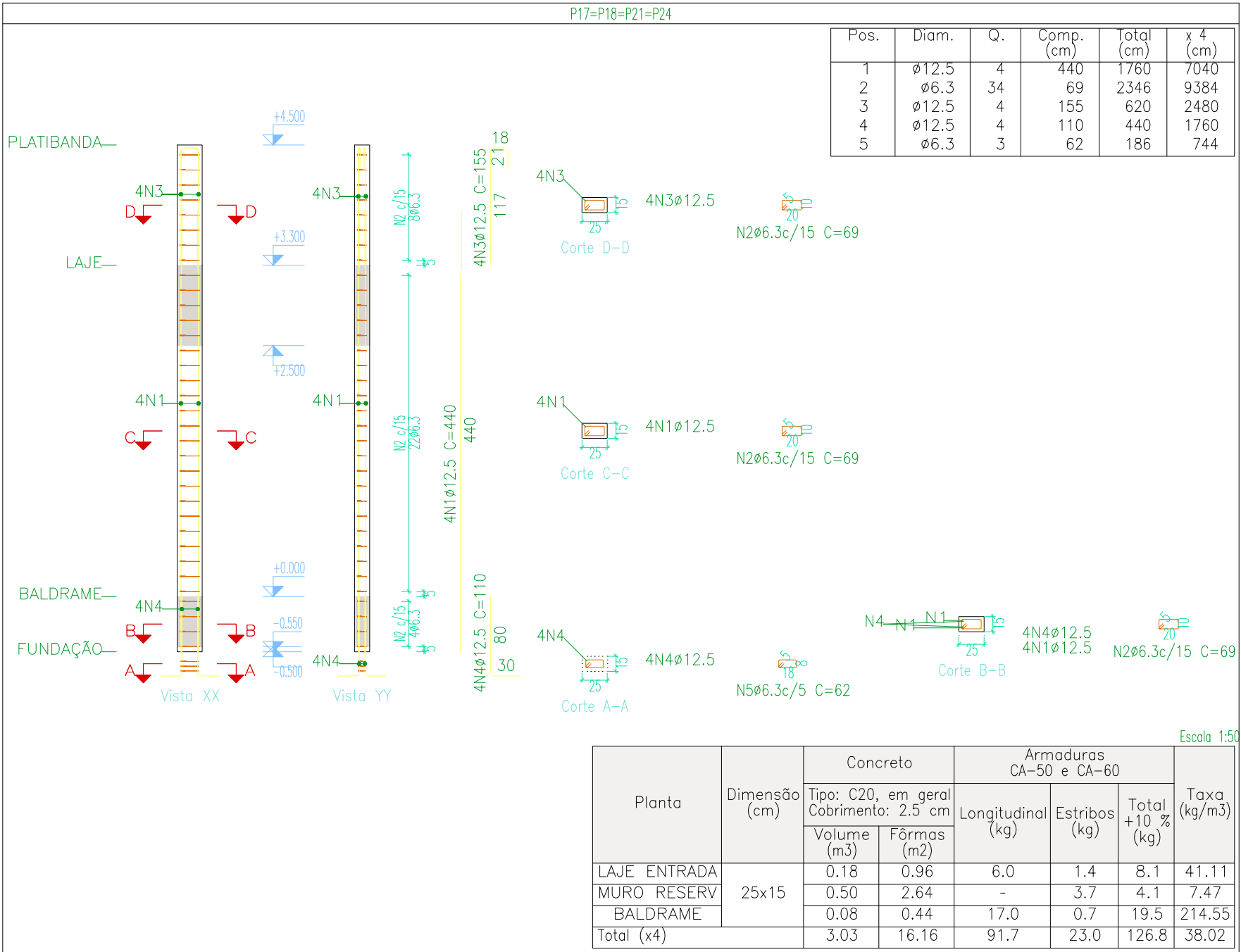
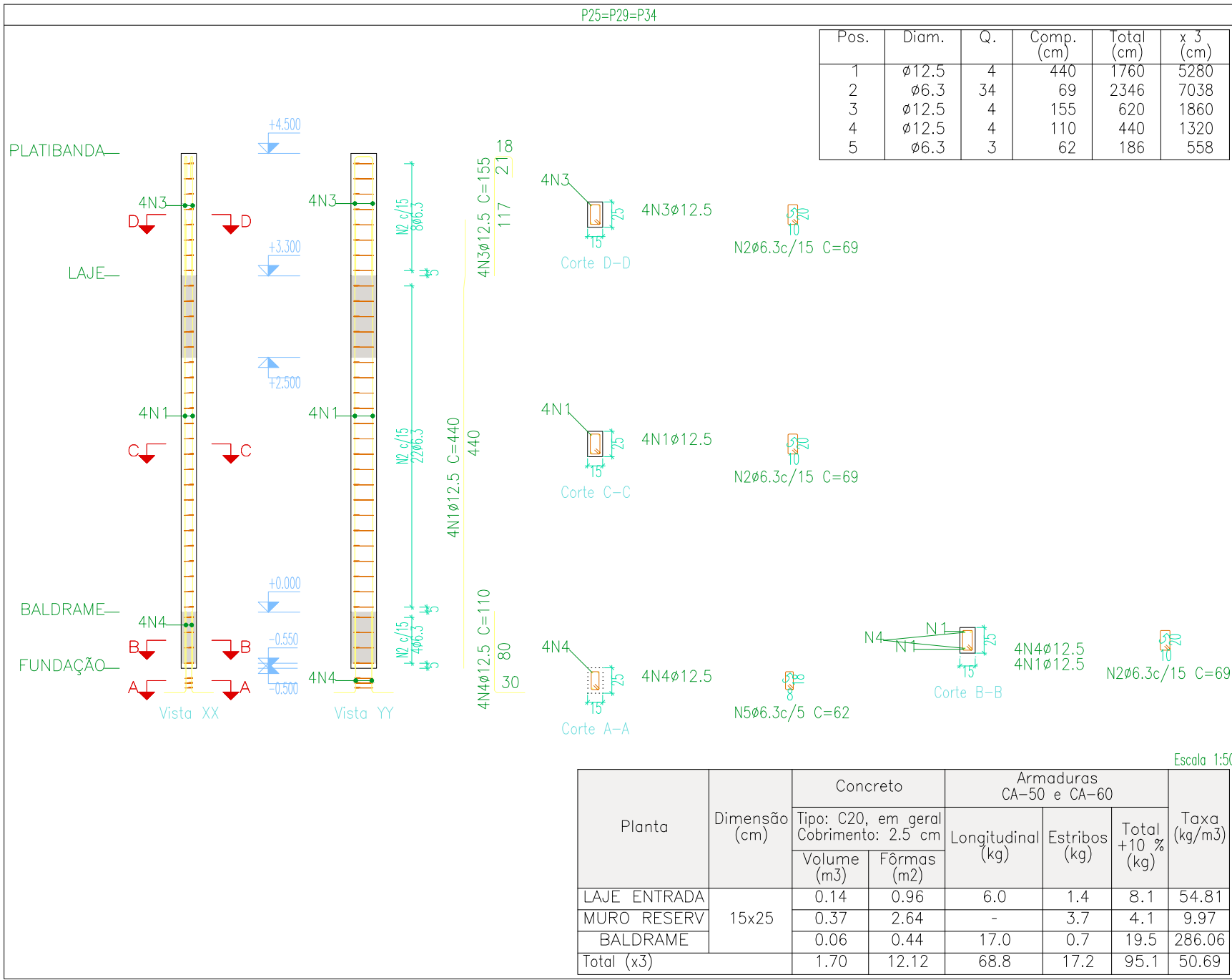
Pilares que nascem em BALDRAME e chegam em CAIXA D'ÁGUA
Concreto: C20, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60



Resumo Aço Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50 ø6.3	1487.8	401	
ø8	19.0	8	
ø10	32.5	22	
ø12.5	1625.6	1722	2153

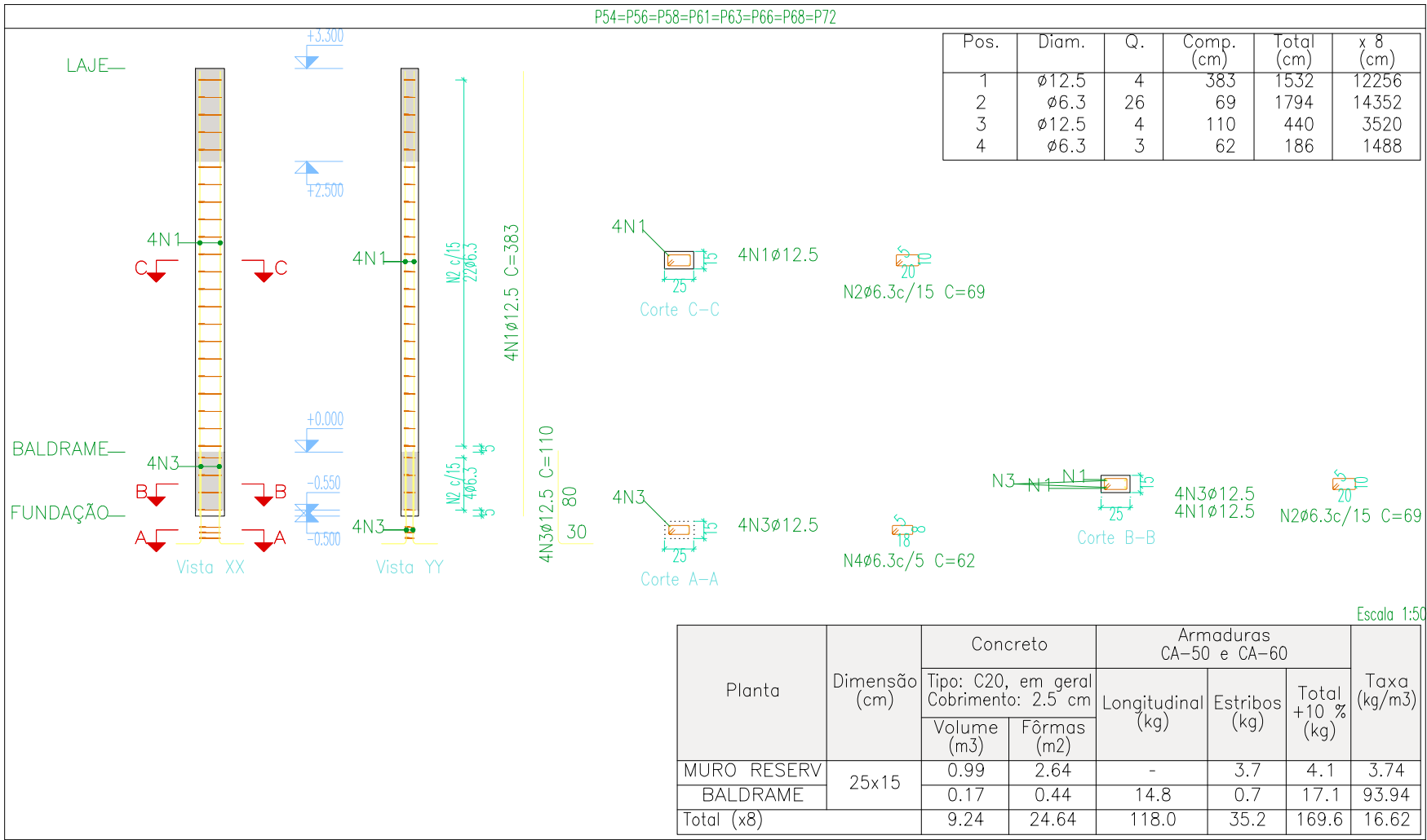
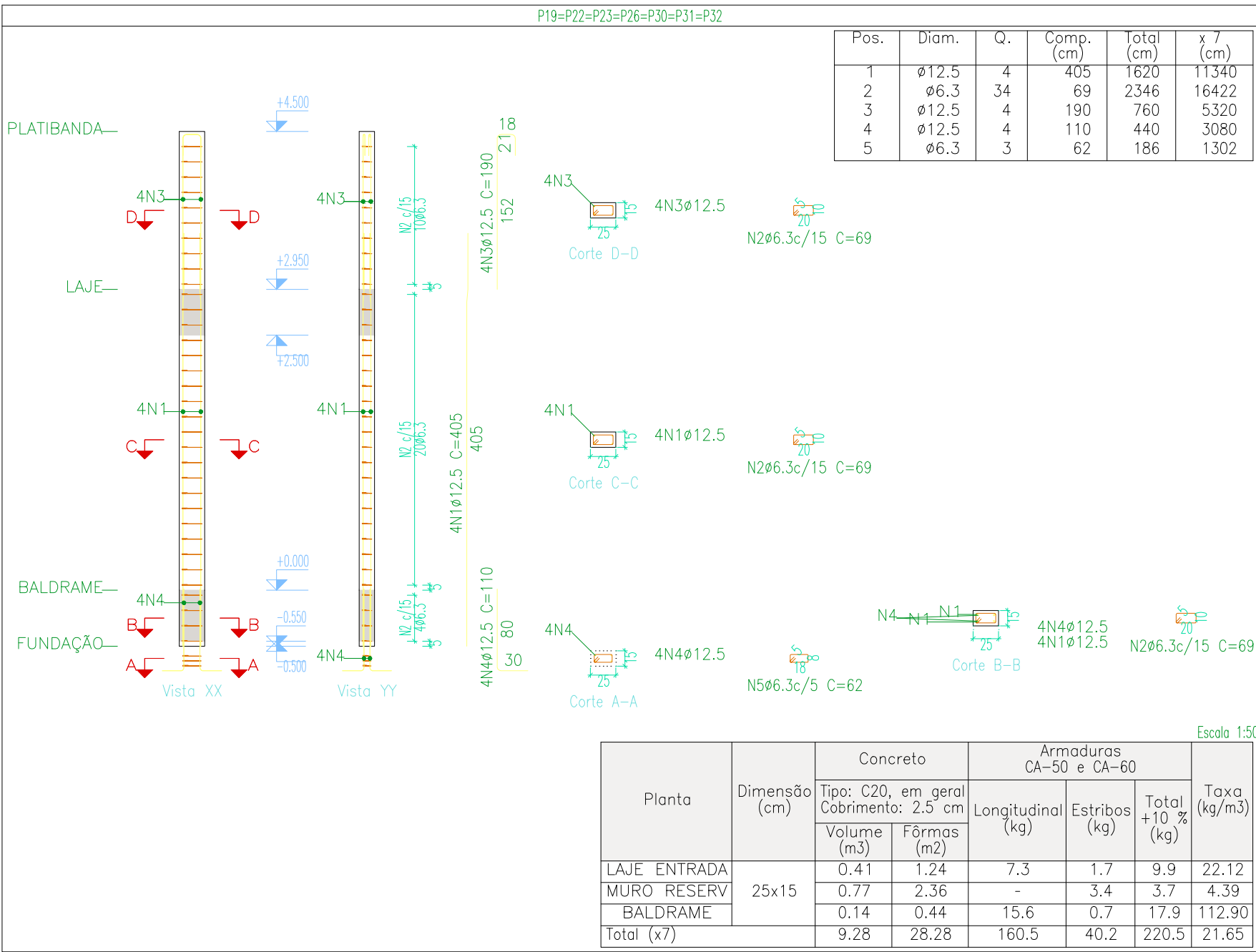
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P14	1	ø12.5	4	Consultar o desenho	260	1040	10.0	
	2	ø8	8		68	544	2.1	
	3	ø6.3	11		69	759	1.9	
	4	ø12.5	4		110	440	4.2	
	5	ø6.3	3		60	180	0.4	
Total+10%							20.5	
P15	1	ø12.5	4	Consultar o desenho	260	1040	10.0	
	2	ø8	10		68	680	2.7	
	3	ø6.3	11		69	759	1.9	
	4	ø12.5	4		110	440	4.2	
	5	ø6.3	3		60	180	0.4	
Total+10%							21.1	
P70	1	ø12.5	4		460	1840	17.7	
	2	ø6.3	47		89	4183	10.2	
	3	ø12.5	4		265	1060	10.2	
	4	ø10	9		88	792	4.9	
	5	ø12.5	4		253	1012	9.7	
	6	ø12.5	4		110	440	4.2	
	7	ø6.3	3		82	246	0.6	
Total+10%							63.3	
P52=P55=P57=P59 P60=P62=P64=P65 P67	1	ø12.5	4		348	1392	13.4	
	2	ø6.3	24		69	1656	4.1	
	3	ø12.5	4		110	440	4.2	
	4	ø6.3	3		62	186	0.5	
Total+10%							24.4 (x9)	
							62.0	0.0
							5.3	0.0
							5.4	0.0
							251.8	0.0
							324.5	0.0

Projeto:	ESTRUTURAL	Data:	25-04-2024
Local:	PAINES-MG		
Nome:	UBS - ALVORADA		
Des.no.:	Planta: PILAR ESTRUTURAL		
Autor:	CHRISTIAN CARLOS DA SILVA TEIXEIRA		

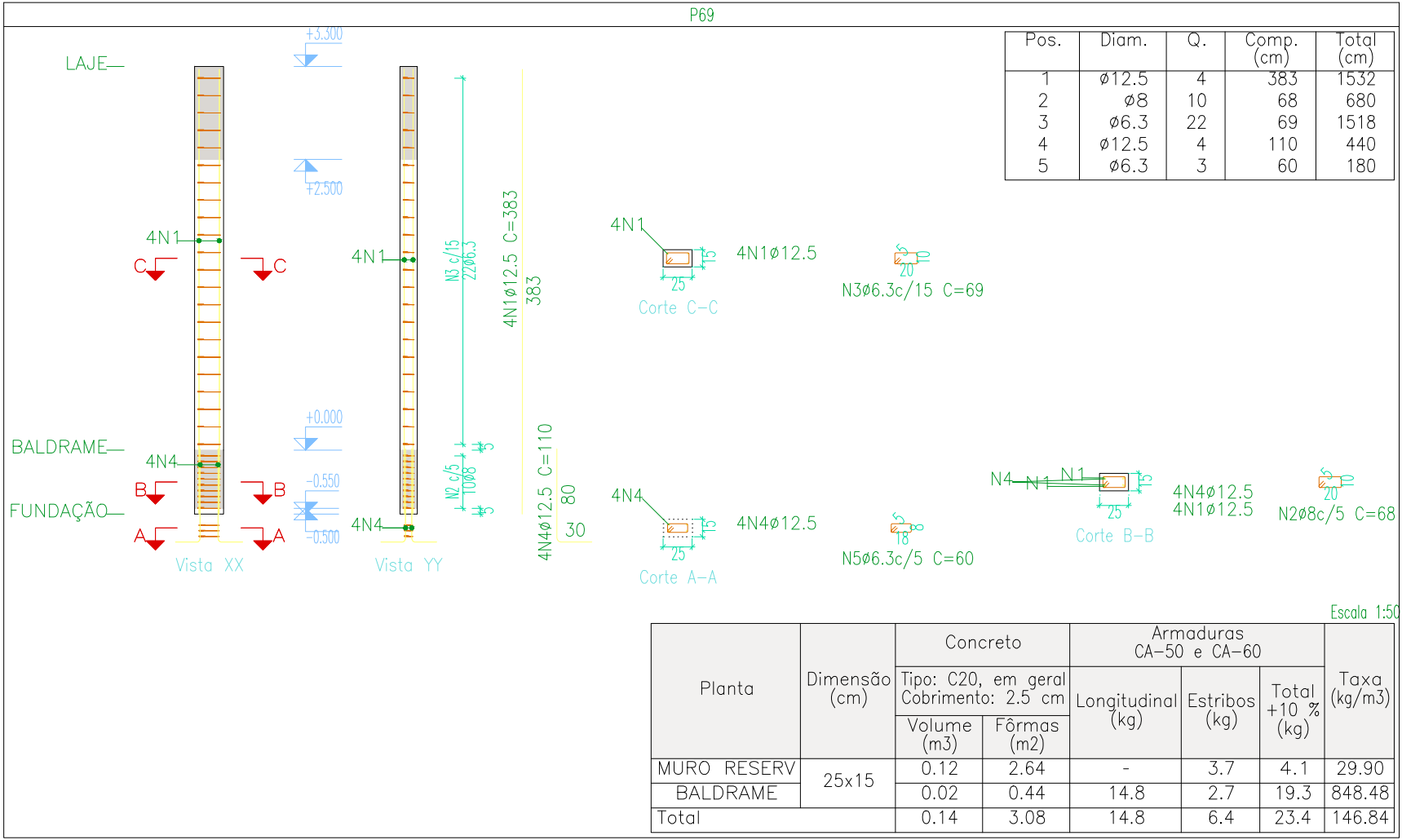


Pilares que nascem em BALDRAME e chegam em CAIXA D'AGUA
Concreto: C20, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P25=P29=P34	1	Ø12.5	4		440	1760	17.0	
	2	Ø6.3	34		69	2346	5.7	
	3	Ø12.5	4		155	620	6.0	
	4	Ø12.5	4		110	440	4.2	
	5	Ø6.3	3		62	186	0.5	
Total+10% (x3):							36.7	110.1
P19=P22=P23=P26 P30=P31=P32	1	Ø12.5	4		405	1620	15.6	
	2	Ø6.3	34		69	2346	5.7	
	3	Ø12.5	4		190	760	7.3	
	4	Ø12.5	4		110	440	4.2	
	5	Ø6.3	3		62	186	0.5	
Total+10% (x7):							36.6	256.2
P17=P18=P21=P24	1	Ø12.5	4		440	1760	17.0	
	2	Ø6.3	34		69	2346	5.7	
	3	Ø12.5	4		155	620	6.0	
	4	Ø12.5	4		110	440	4.2	
	5	Ø6.3	3		62	186	0.5	
Total+10% (x4):							36.7	146.8
P54=P56=P58=P61 P63=P66=P68=P72	1	Ø12.5	4		383	1532	14.8	
	2	Ø6.3	26		69	1794	4.4	
	3	Ø12.5	4		110	440	4.2	
	4	Ø6.3	3		62	186	0.5	
Total+10% (x8):							26.3	210.4
							Ø6.3: 138.4	0.0
							Ø12.5: 585.1	0.0
							Total: 723.5	0.0

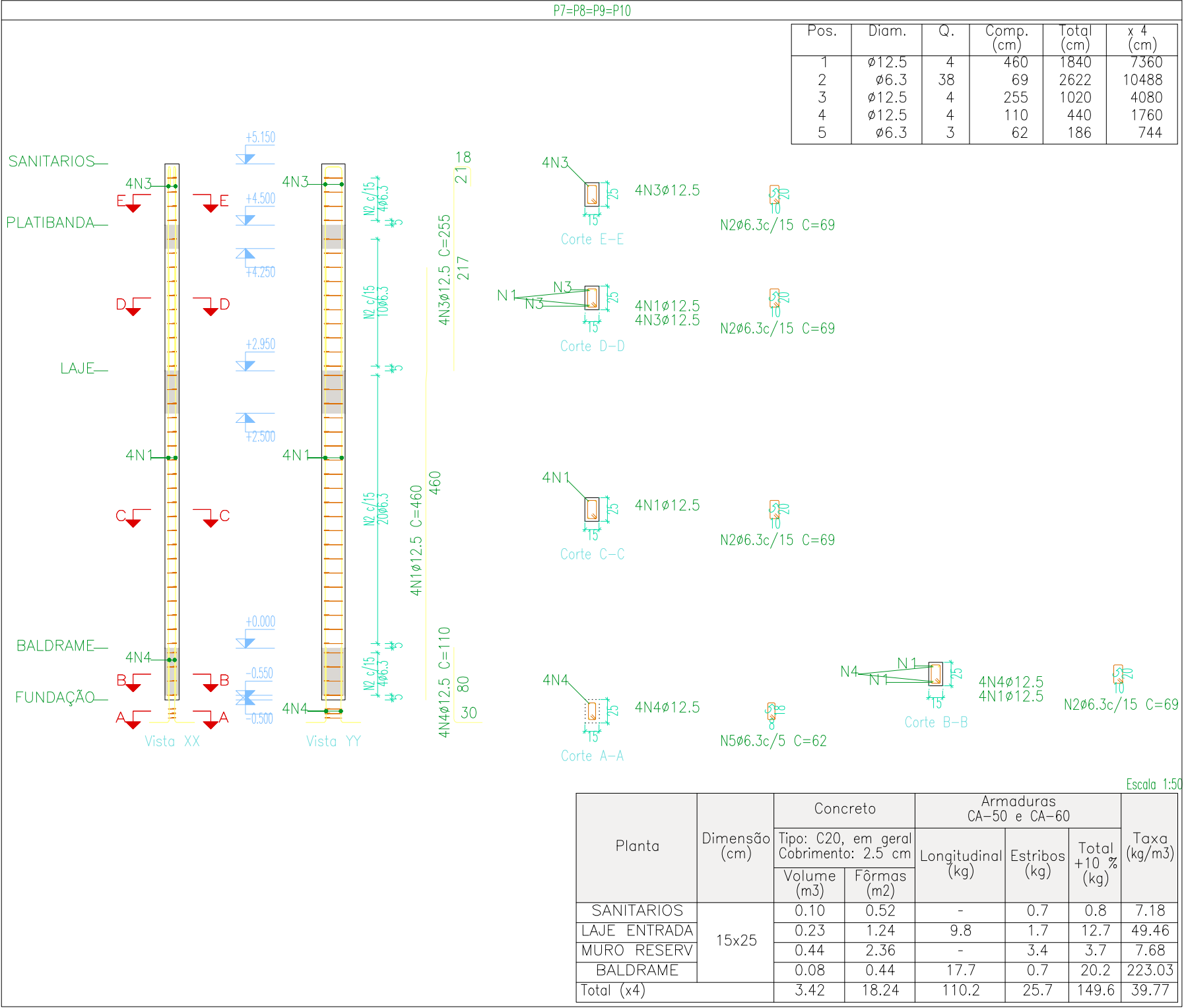
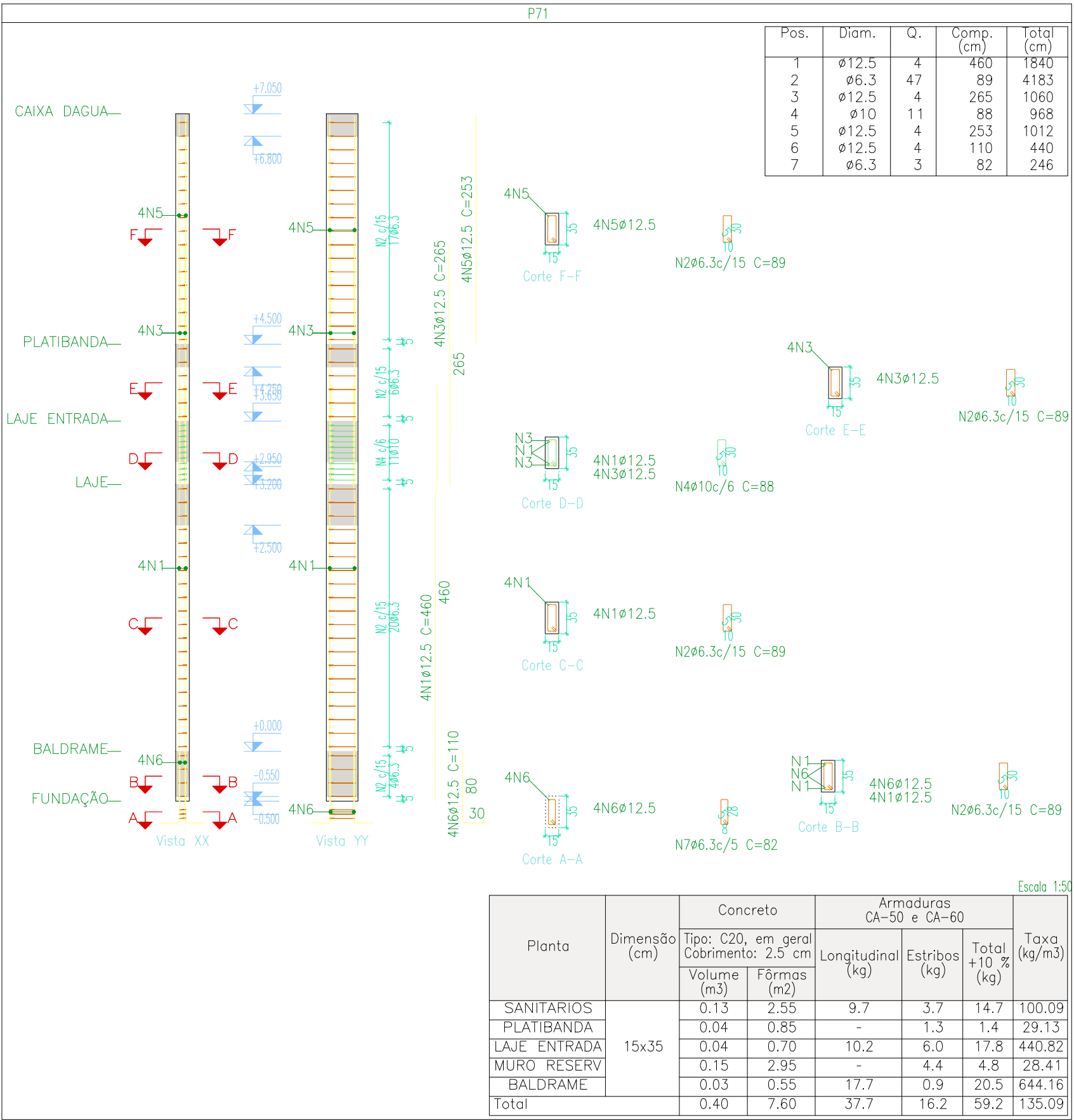


Projeto:	ESTRUTURAL	Data:	25-04-2024
Local:	PAINES-MG		
Nome:	UBS - ALVORADA		
Des.no.:	Planta: PILAR ESTRUTURAL		
Autor:	CHRISTIAN CARLOS DA SILVA TEIXEIRA		

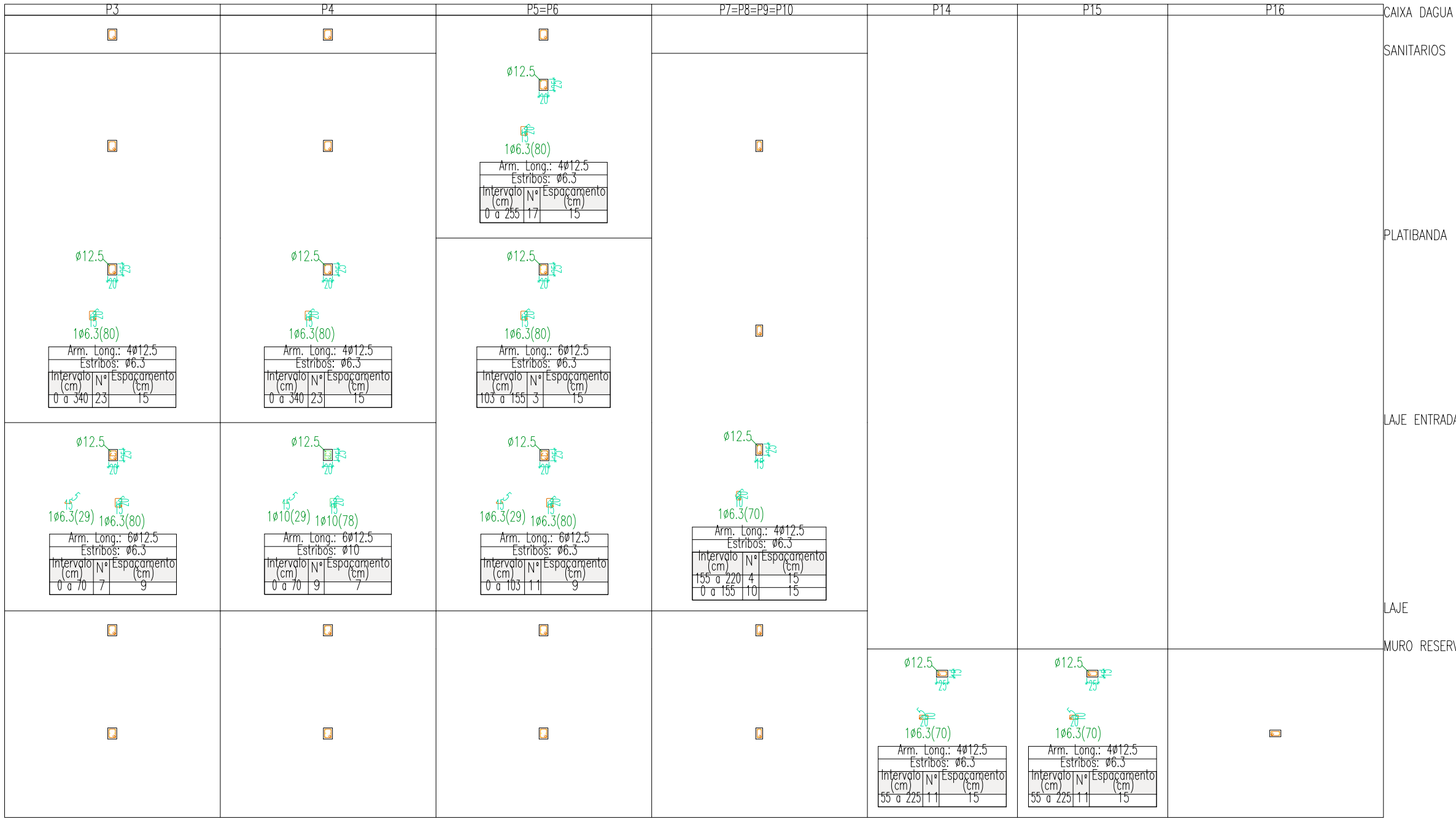


Pilares que nascem em BALDRAME e chegam em CAIXA D'ÁGUA
Concreto: C20, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P69	1	Ø12,5	4		383	1532	14,8	
	2	Ø8	10		68	680	2,7	
	3	Ø6,3	22		69	1518	3,7	
	4	Ø12,5	4		110	440	4,2	
	5	Ø6,3	3		60	180	0,4	
							Total+10%	28,4
P71	1	Ø12,5	4		460	1840	17,7	
	2	Ø6,3	47		89	4183	10,2	
	3	Ø12,5	4		265	1060	10,2	
	4	Ø10	11		88	968	6,0	
	5	Ø12,5	4		253	1012	9,7	
	6	Ø12,5	4		110	440	4,2	
	7	Ø6,3	3		82	246	0,6	
							Total+10%	64,5
P7=P8=P9=P10	1	Ø12,5	4		460	1840	17,7	
	2	Ø6,3	38		69	2622	6,4	
	3	Ø12,5	4		255	1020	9,8	
	4	Ø12,5	4		110	440	4,2	
	5	Ø6,3	3		62	186	0,5	
							Total+10%	42,5 (x4): 170,0
							Ø6,3:	46,8
							Ø8:	3,0
							Ø10:	6,6
							Ø12,5:	206,5
							Total:	262,9
								0,0

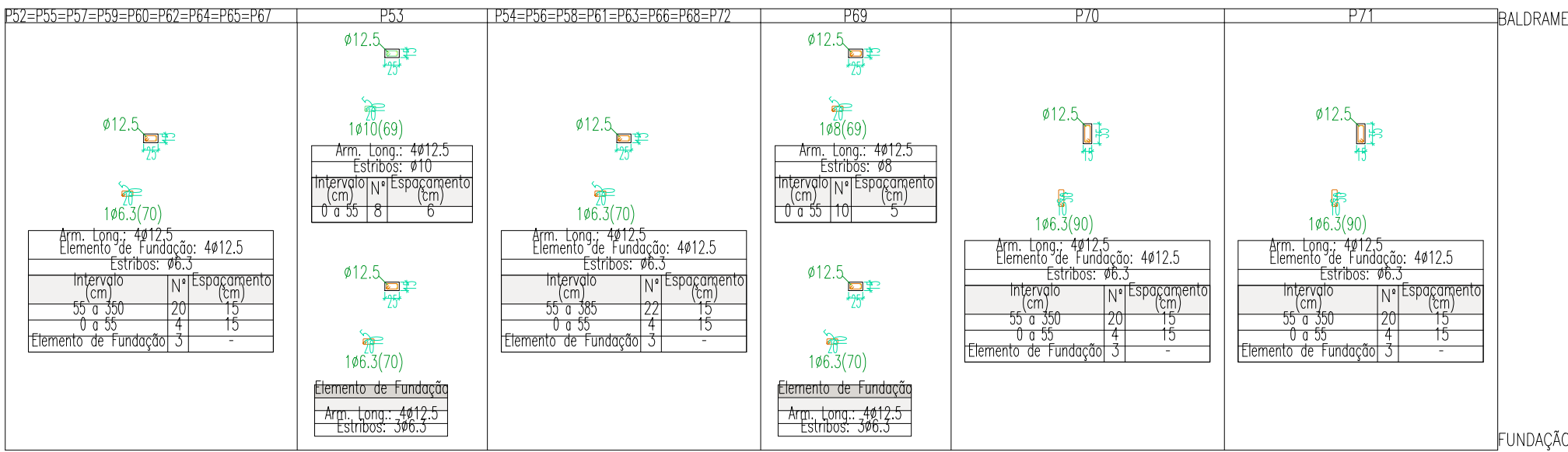
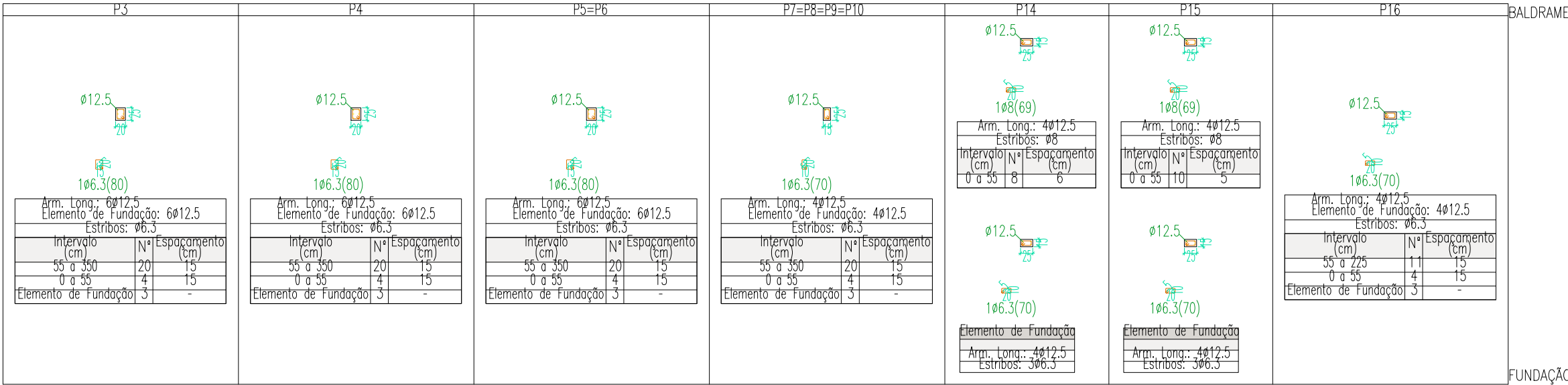
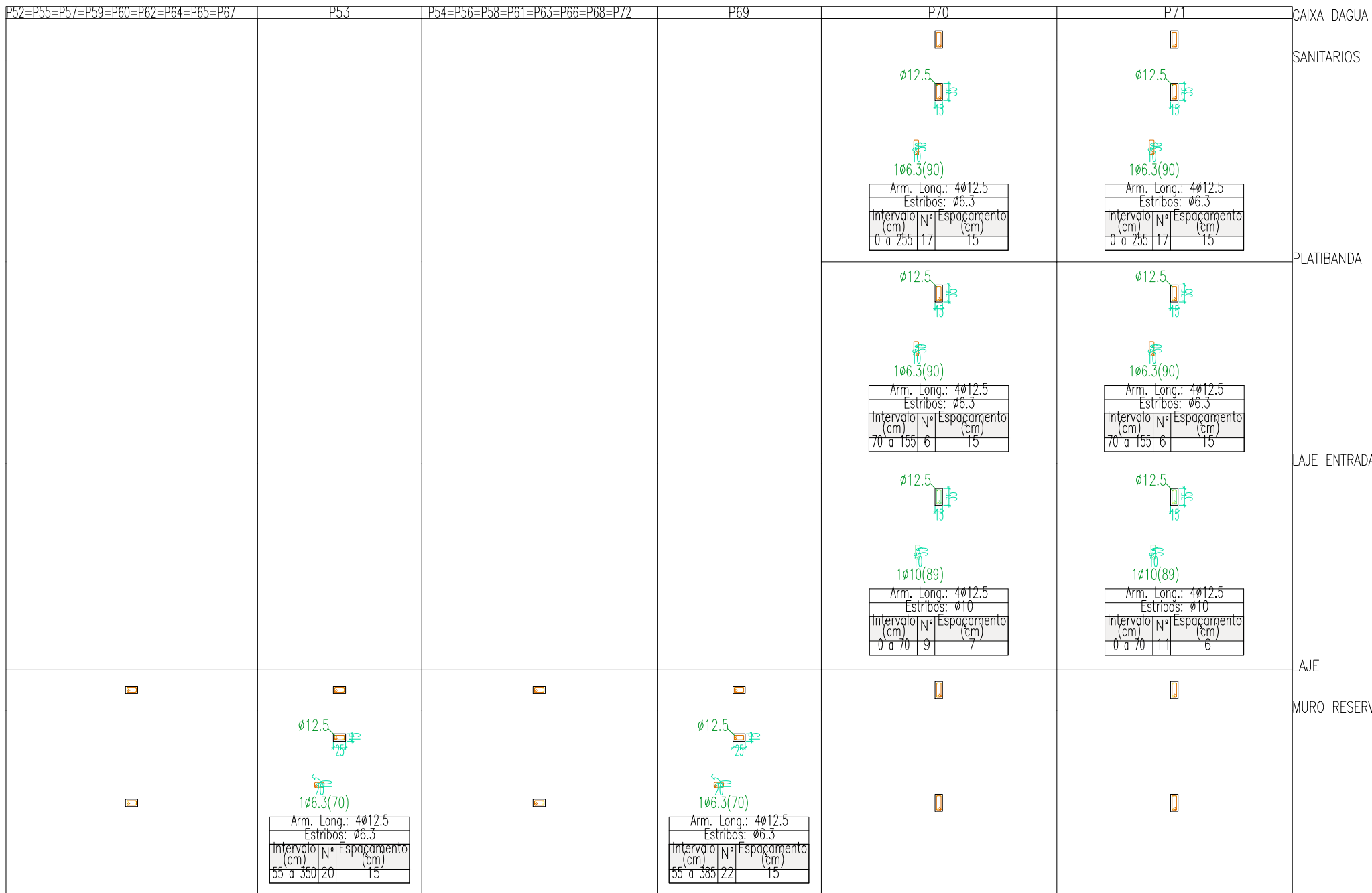
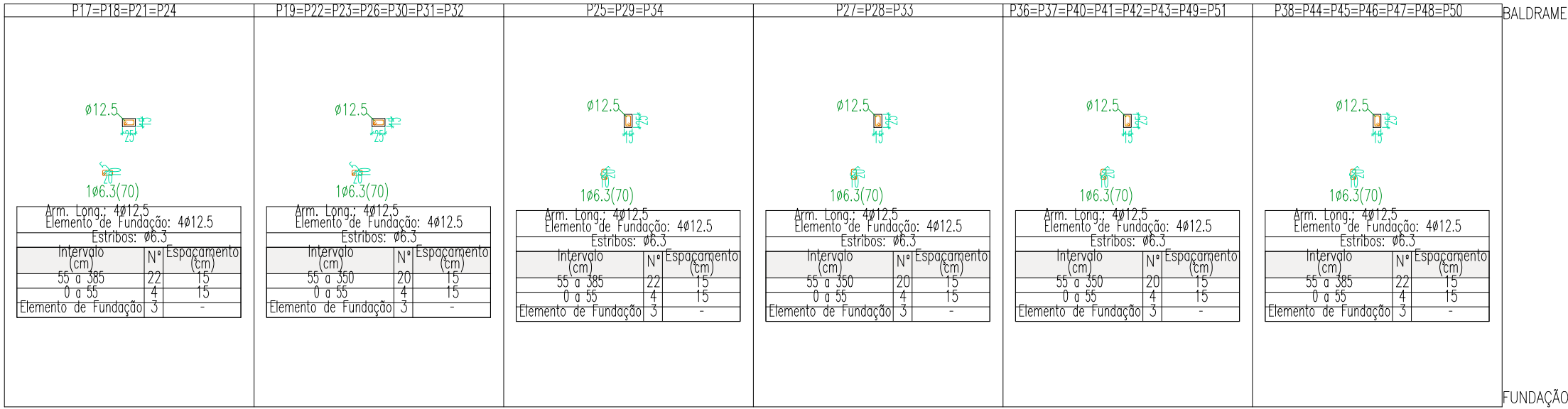
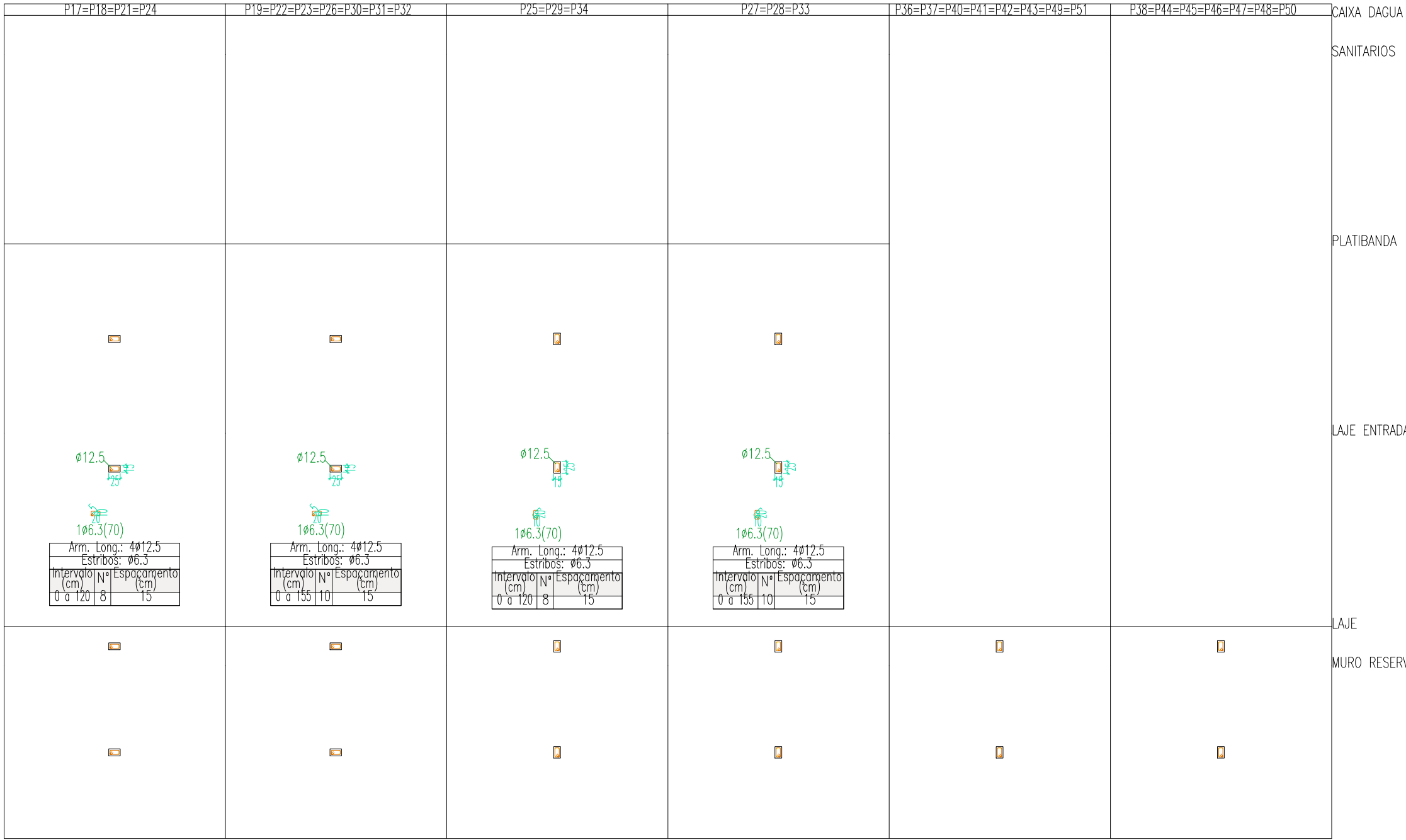


Projeto:	ESTRUTURAL	Data:	25-04-2024
Local:	PAINES-MG		
Nome:	UBS - ALVORADA		
Des.no.:	Planta: PILAR ESTRUTURAL		
Autor:	CHRISTIAN CARLOS DA SILVA TEIXEIRA		



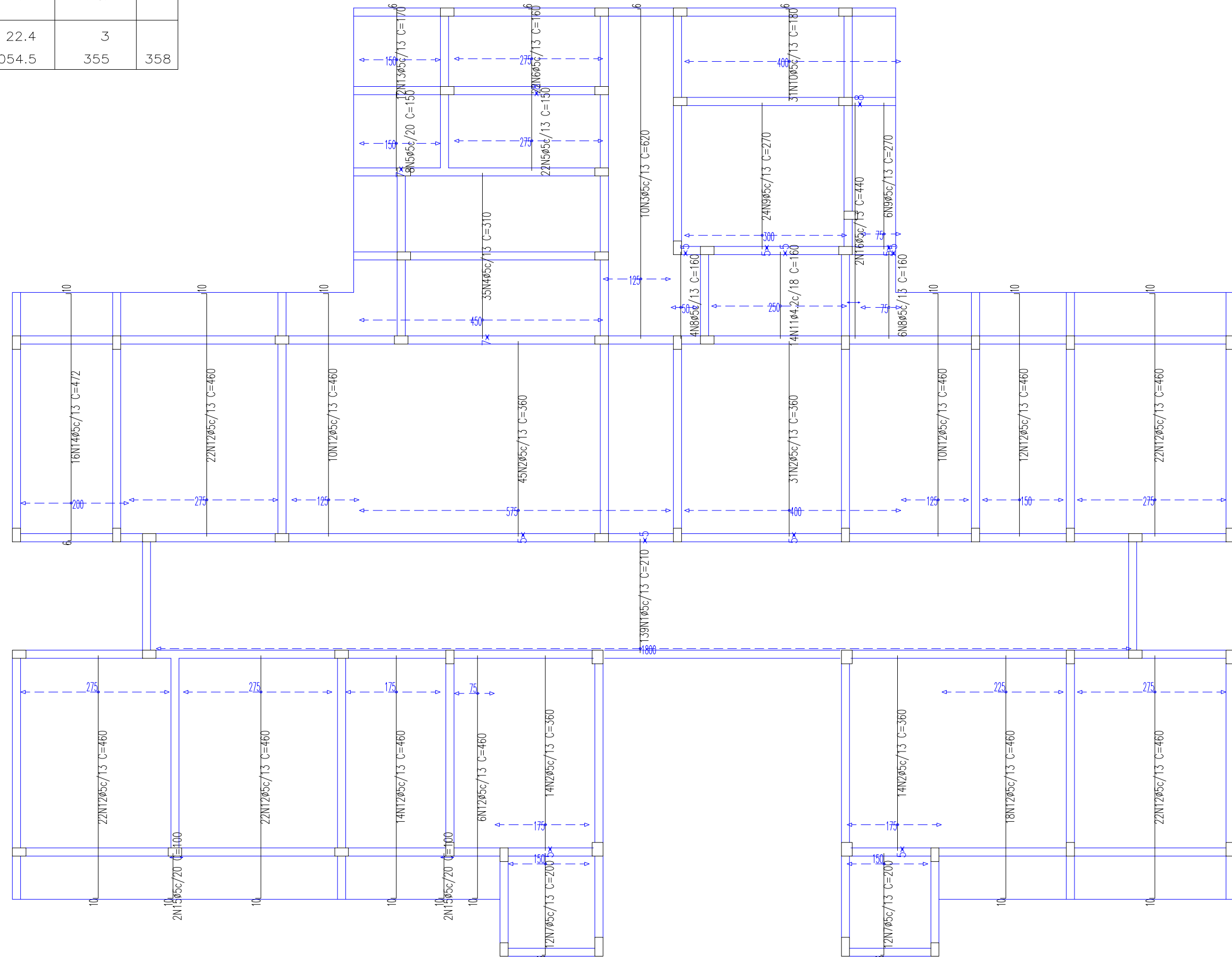
Quadro de pilares
Escala 1:100
Concreto: C20, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60

Resumo Aço	Comp. total (m)	Peso+10% (kg)	Total
CA-50	1487.8	401	
Ø6.3	19.0	8	
Ø10	32.5	22	
Ø12.5	1625.6	1722	2153

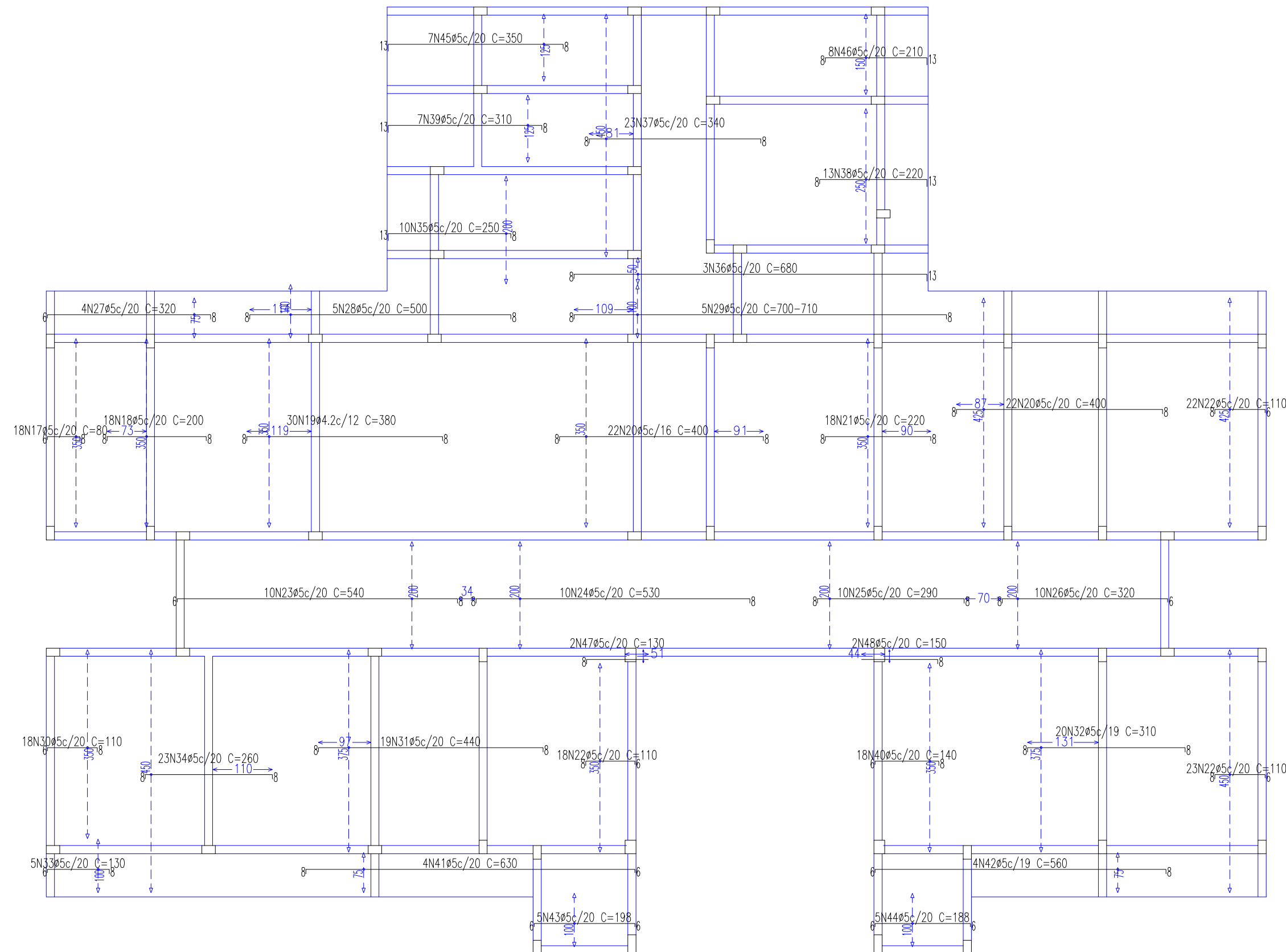


Projeto: ESTRUTURAL		Data: 25-04-2024
Local: PAINS-MG		
Nome: UBS - ALVORADA		
Des.no:	Planta: PILAR ESTRUTURAL	
Autor: CHRISTIAN CARLOS DA SILVA TEIXEIRA		

LAJE
Armadura transversal inferior
Concreto: C20, em geral
CA-50 e CA-60
Escala: 1:70



LAJE
Armadura longitudinal superior
Concreto: C20, em geral
CA-50 e CA-60
Escala: 1:75

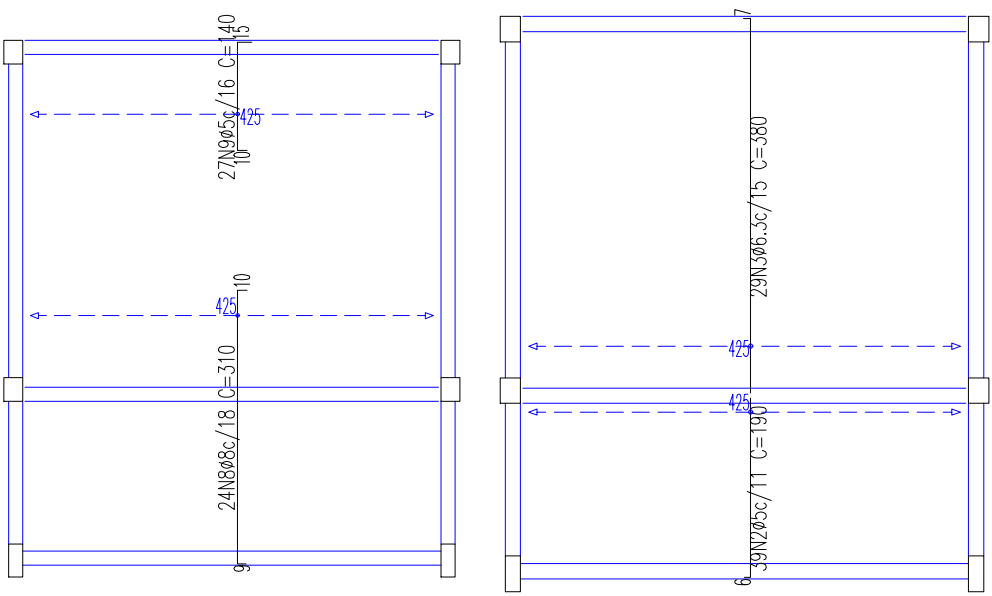
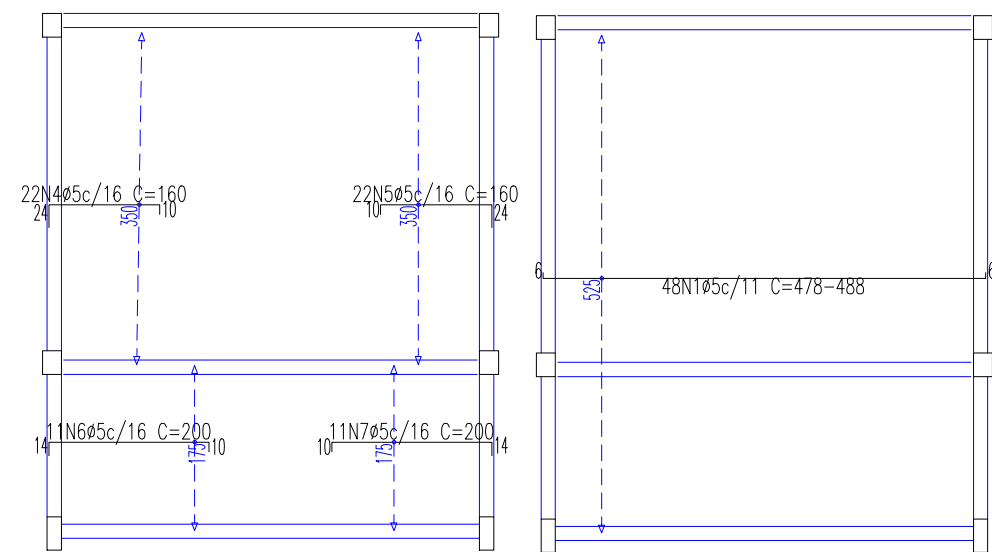


LAJE ENTRADA
Armadura longitudinal superior
Concreto: C20, em geral
CA-50 e CA-60
Escala: 1:75

Resumo Aço LAJE ENTRADA	Comp. total (m)	Peso+10% (kg)
Armadura longitudinal superior		
CA-60 Ø5	114,4	20

[illegible]

ø4.2:	0.0	16.3
ø5:	0.0	548.5
Total:	0.0	564.8



ø5:	0.0	78.7
ø6.3:	29.7	0.0
ø8:	32.3	0.0
Total:	62.0	78.7

Projeto: CREA-MG 253.248		ESTRUTURAL	Data: 25-04-2024
Local: PAINIS - MG			
Nome: UBS - ALVORADA			
Des.no.:		Planta: LAJE	ESTRUTURAL
Autor:		CHRISTIAN CARLOS DA SILVA TEIXEIRA	