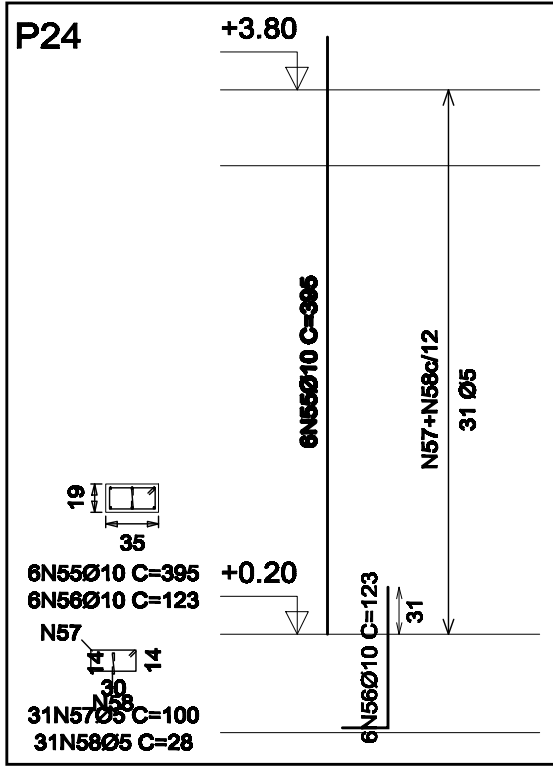
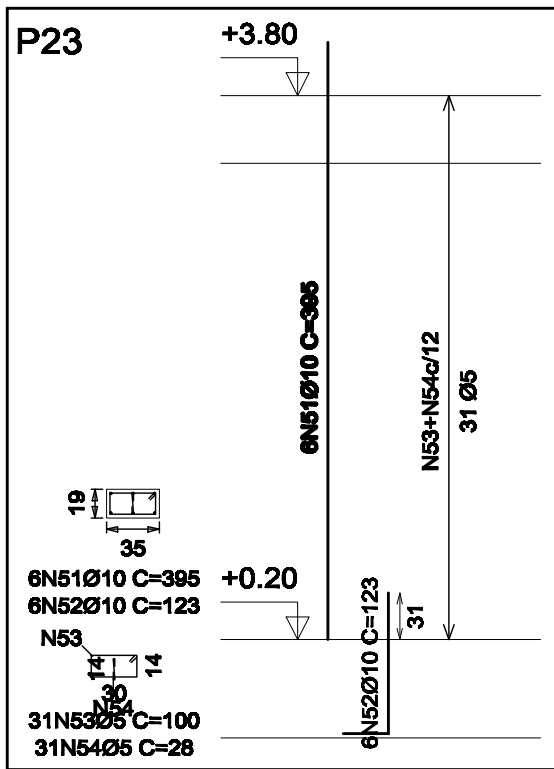
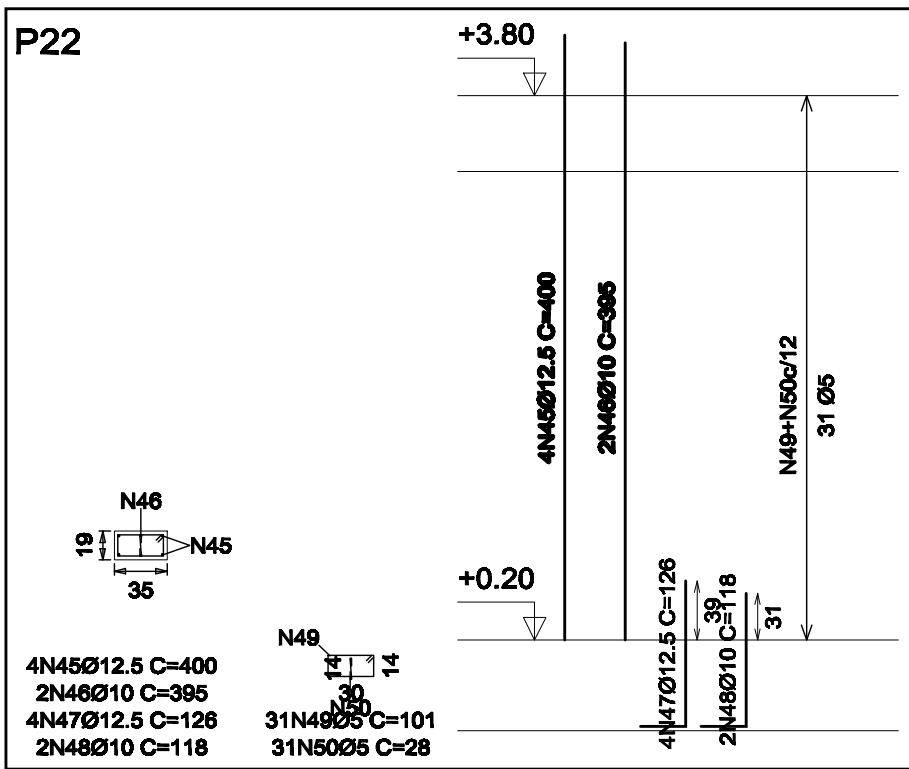
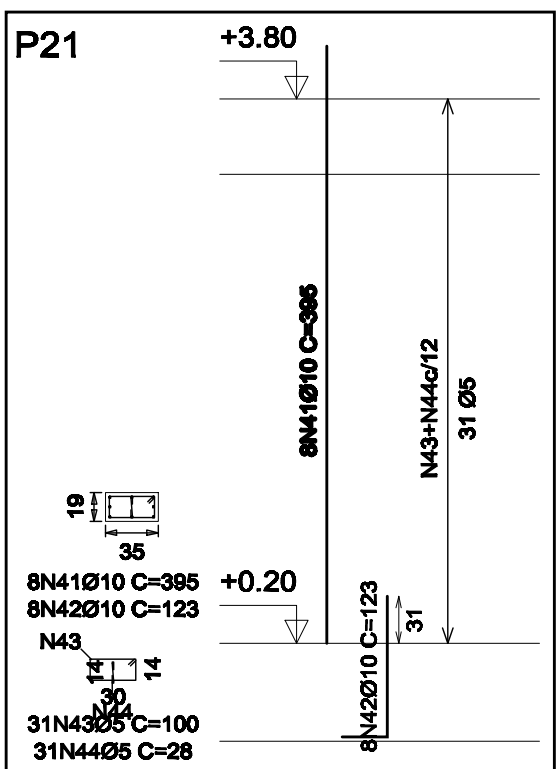
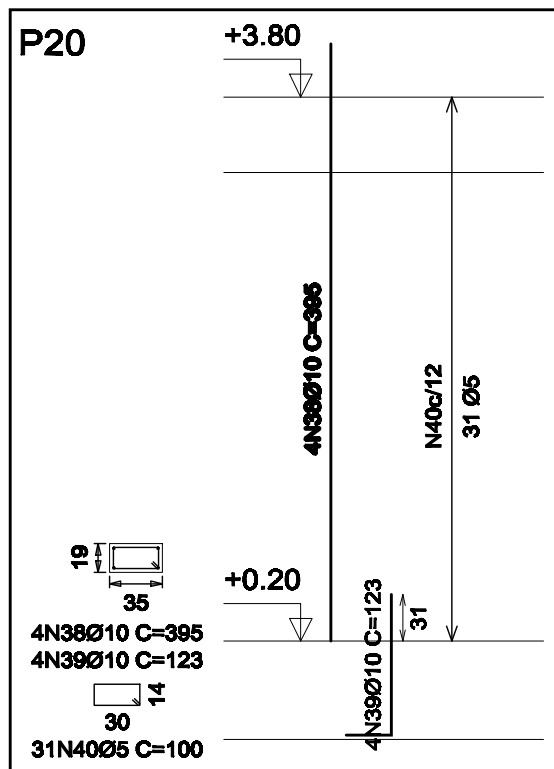
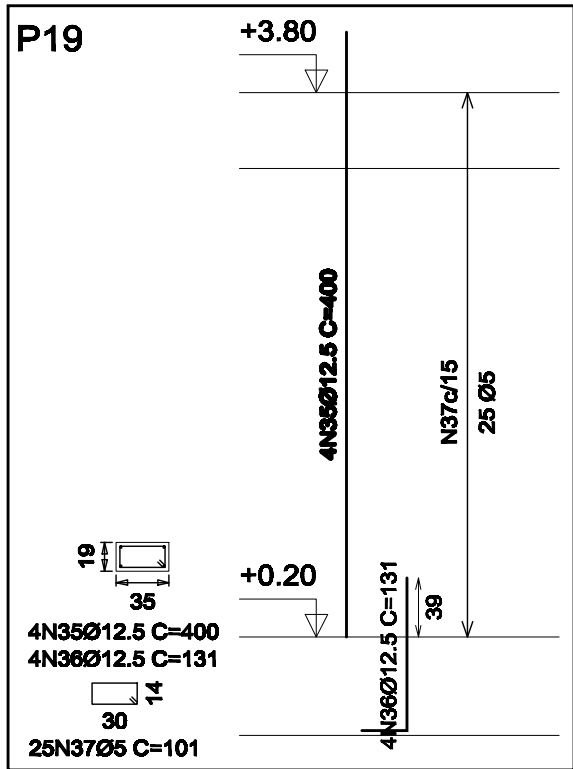
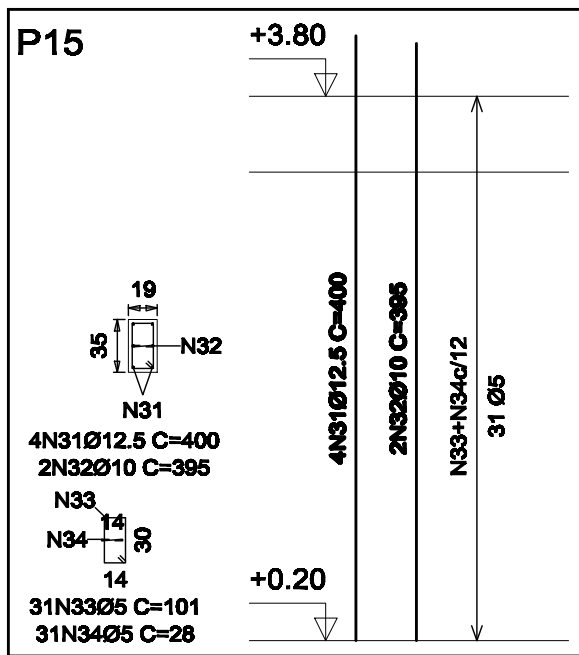
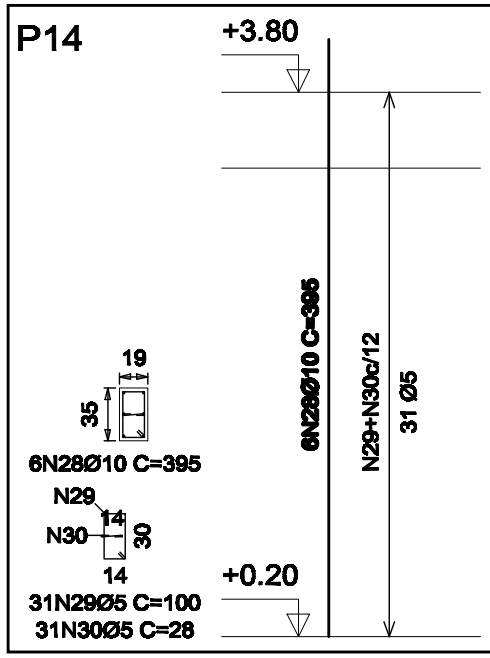
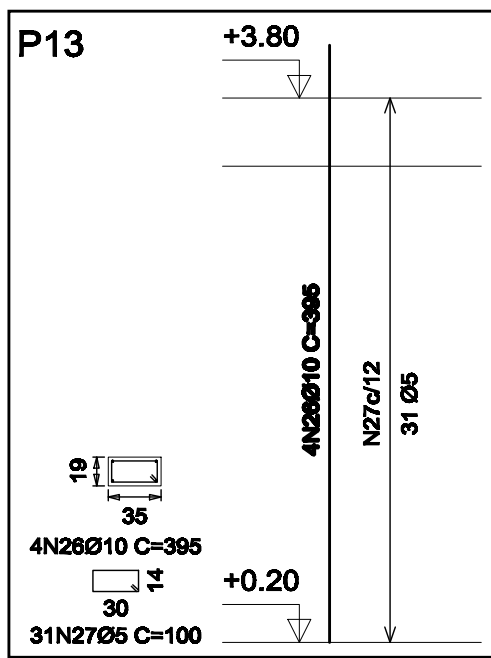
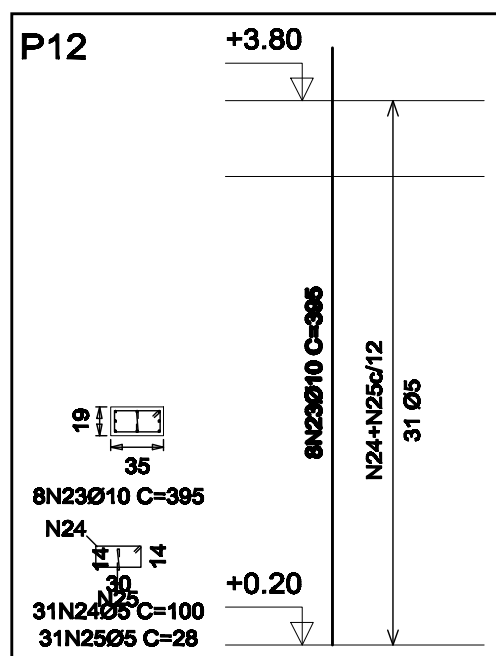
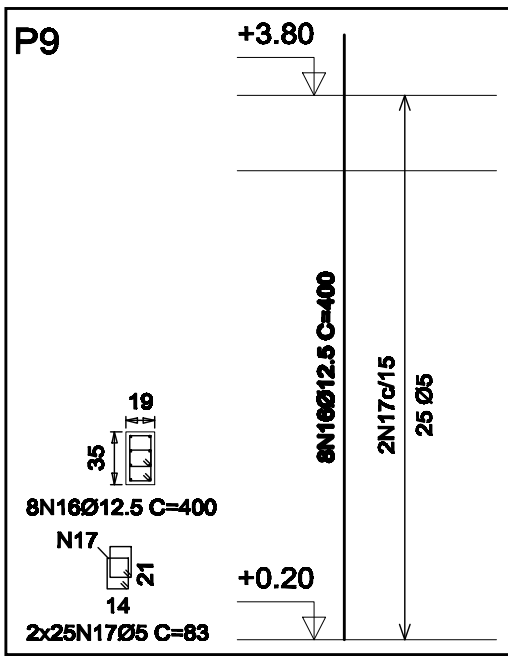
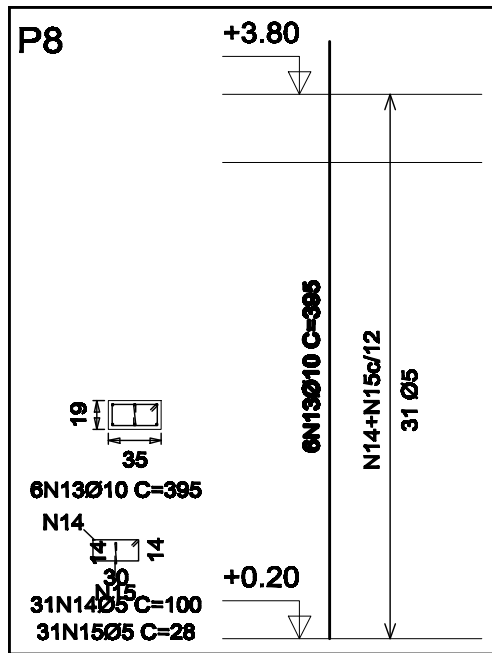
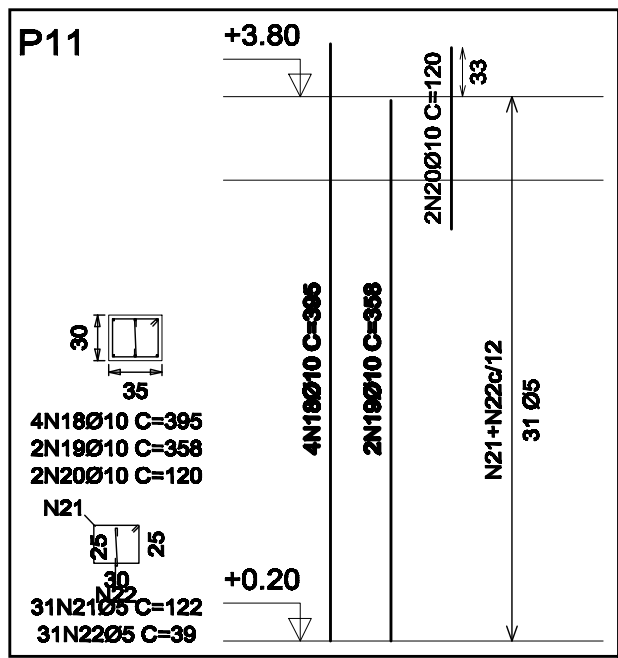
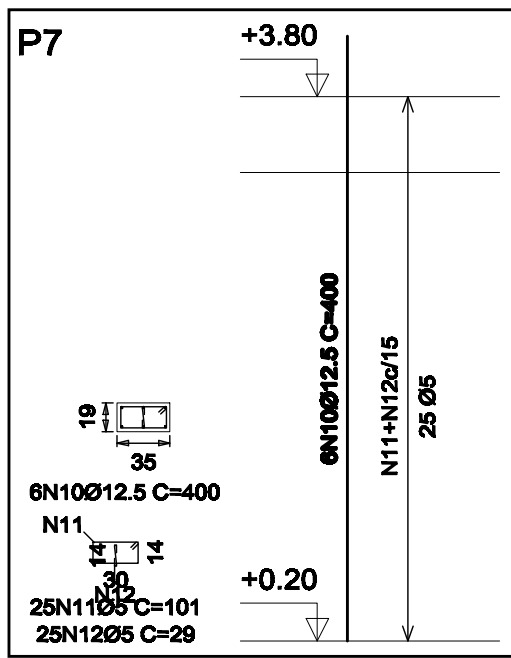
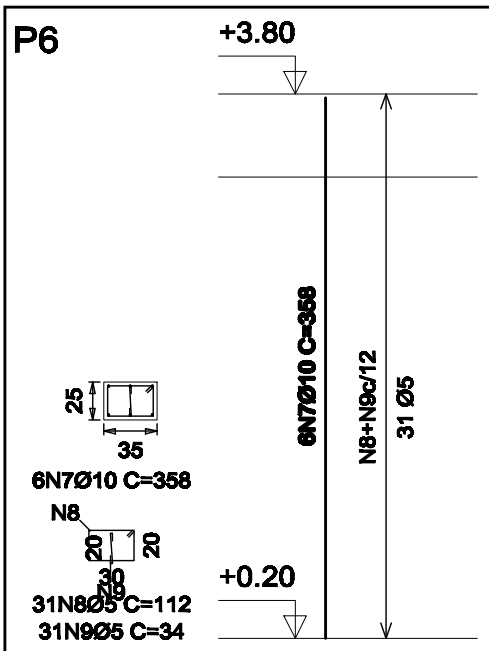
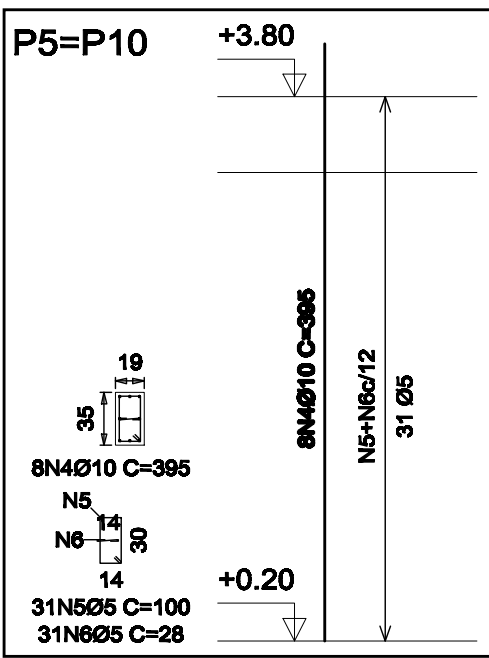
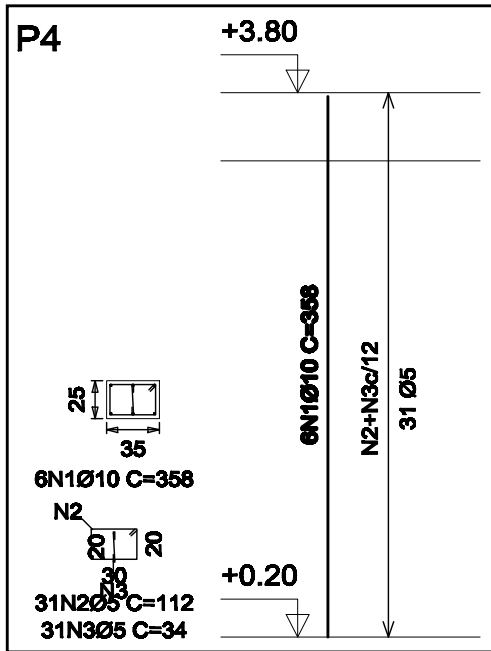


Resumo Aço 2 Pavto Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø10	368.8	255	
Ø12.5	114.3	123	378
CA-60-B Ø5	698.0	121	121
Total			499

Pilares que terminam em
2 Pavto
Concreto: C30, usina.rigor
Aço: CA-50-A e CA-60-B
Escala: 1:50



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
P4	1	Ø10	6		358		358	2148	13.5	
	2	Ø5	31		112		112	3472		5.5
	3	Ø5	31		34		34	1054		1.7
Total+10%:									14.9	7.9
P5=P10	4	Ø10	8		395		395	3160	19.8	
	5	Ø5	31		100		100	3100		4.9
	6	Ø5	31		28		28	868		1.4
Total+10%:									21.8	6.9
P6	7	Ø10	6		358		358	2148	13.5	
	8	Ø5	31		112		112	3472		5.5
	9	Ø5	31		34		34	1054		1.7
Total+10%:									14.9	7.9
P7	10	Ø12.5	6		400		400	2400	23.6	
	11	Ø5	25		100		100	2500		3.9
	12	Ø5	25		29		29	725		1.1
Total+10%:									28.0	5.5
P8	13	Ø10	6		395		395	2370	14.9	
	14	Ø5	31		100		100	3100		4.9
	15	Ø5	31		28		28	868		1.4
Total+10%:									16.4	6.9
P9	16	Ø12.5	8		400		400	3200	31.4	
	17	Ø5	50		83		83	4150		6.5
	Total+10%:								34.5	7.2
P11	18	Ø10	4		395		395	1580	9.9	
	19	Ø10	2		358		358	716	4.5	
	20	Ø10	2		120		120	240	1.5	
	21	Ø5	31		122		122	3100		5.9
	22	Ø5	31		39		39	1209		1.9
Total+10%:									17.5	8.6
P12	23	Ø10	8		395		395	3160	19.8	
	24	Ø5	31		100		100	3100		4.9
	25	Ø5	31		28		28	868		1.4
Total+10%:									21.8	6.9
P13	26	Ø10	4		395		395	1580	9.9	
	27	Ø5	31		100		100	3100		4.9
	Total+10%:								10.9	5.4
P14	28	Ø10	6		395		395	2370	14.9	
	29	Ø5	31		100		100	3100		4.9
	30	Ø5	31		28		28	868		1.4
Total+10%:									16.4	6.9
P15	31	Ø12.5	4		400		400	1600	15.7	
	32	Ø10	2		395		395	790	5.0	
	33	Ø5	31		100		100	3100		4.9
	34	Ø5	31		28		28	868		1.4
Total+10%:									22.8	6.9
P19	35	Ø12.5	4		400		400	1600	15.7	
	36	Ø12.5	4	30	101		101	524	5.1	
	37	Ø5	25		100		100	2500		3.9
Total+10%:									22.9	4.3
P20	38	Ø10	4	30	93		93	1590	9.9	
	39	Ø10	4		93		93	492	3.1	
	40	Ø5	31		100		100	3100		4.9
Total+10%:									14.3	5.4
P21	41	Ø10	8		395		395	3160	19.8	
	42	Ø10	8	30	93		93	984	6.2	
	43	Ø5	31		100		100	3100		4.9
	44	Ø5	31		28		28	868		1.4
Total+10%:									28.6	6.9
P22	45	Ø12.5	4		400		400	1600	15.7	
	46	Ø10	2		395		395	790	5.0	
	47	Ø12.5	4	30	98		98	504	4.9	
	48	Ø10	2	30	88		88	236	1.5	
	49	Ø5	31		100		100	3100		4.9
	50	Ø5	31		28		28	868		1.4
Total+10%:									29.8	6.9
P23	51	Ø10	6		395		395	2370	14.9	
	52	Ø10	6	30	93		93	738	4.6	
	53	Ø5	31		100		100	3100		4.9
	54	Ø5	31		28		28	868		1.4
Total+10%:									21.5	6.9
P24	55	Ø10	6	30	395		395	2370	14.9	
	56	Ø10	6		93		93	738	4.6	
	57	Ø5	31		100		100	3100		4.9
	58	Ø5	31		28		28	868		1.4
Total+10%:									21.5	6.9
									0.0	121.2
									0.0	0.0
									123.4	0.0
Total:									378.3	121.2

Meta

ENGENHARIA E PLANEJAMENTO

15

ANOS

PROJETO

ESTRUTURAL

OBRA

8º BATALHÃO DE BOMBEIROS MILITAR - CONV. PMT
AV. PATRÍCIO LIMA, 804 - HUMAITÁ - TUBARÃO - S.C.

ASSUNTO

PILARES 2 PAVIMENTO

ÁREA: 610,43 M²

PRANCHA

C10

24

REVISÃO Nº

DATA

COMENTÁRIO

COLABORADOR

00

19/02/2018

EMISSION PARCIAL

ENG. CHARLES

01

19/03/2018

EMISSION FINAL

ENG. CHARLES

CHARLES MENDES DE SOUZA

PROPRIETÁRIO

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