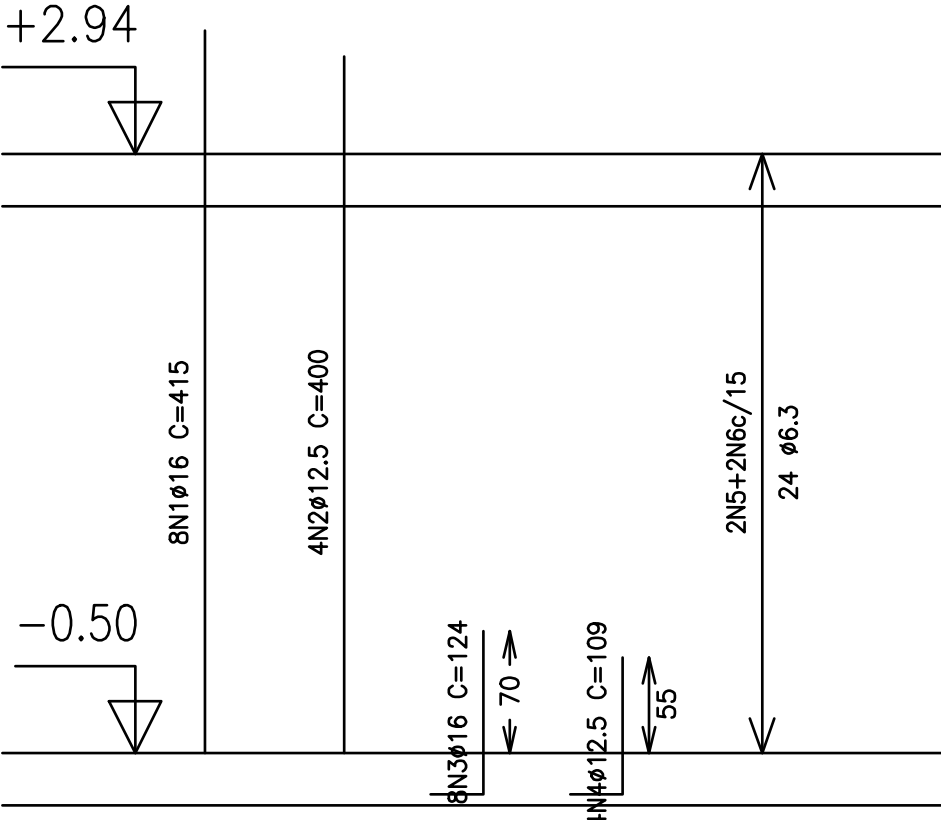
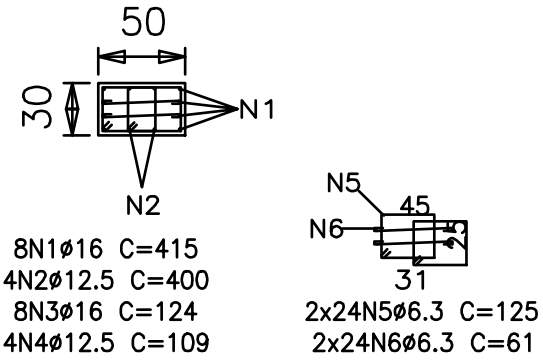


Resumo Aço Piso 6 Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A $\varnothing 6.3$	220.6	60	350
$\varnothing 10$	56.4	39	
$\varnothing 12.5$	46.6	50	
$\varnothing 16$	83.3	144	
$\varnothing 20$	20.8	57	
CA-60-B $\varnothing 5$	107.3	19	19
Total			369

Pilares que terminam em
Piso 6
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala: 1:100

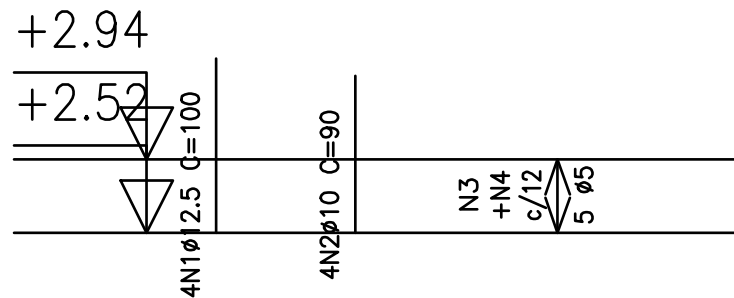
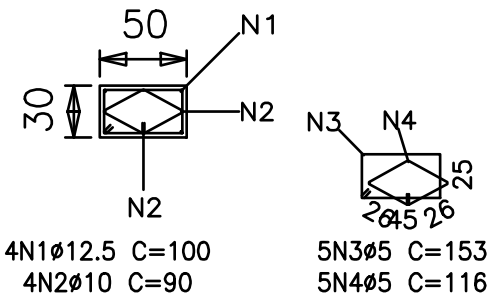
P13

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	$\varnothing 16$	8	415	3320
"	2	$\varnothing 12.5$	4	400	1600
"	3	$\varnothing 16$	8	124	992
"	4	$\varnothing 12.5$	4	109	436
"	5	$\varnothing 6.3$	48	125	6000
"	6	$\varnothing 6.3$	48	61	2928



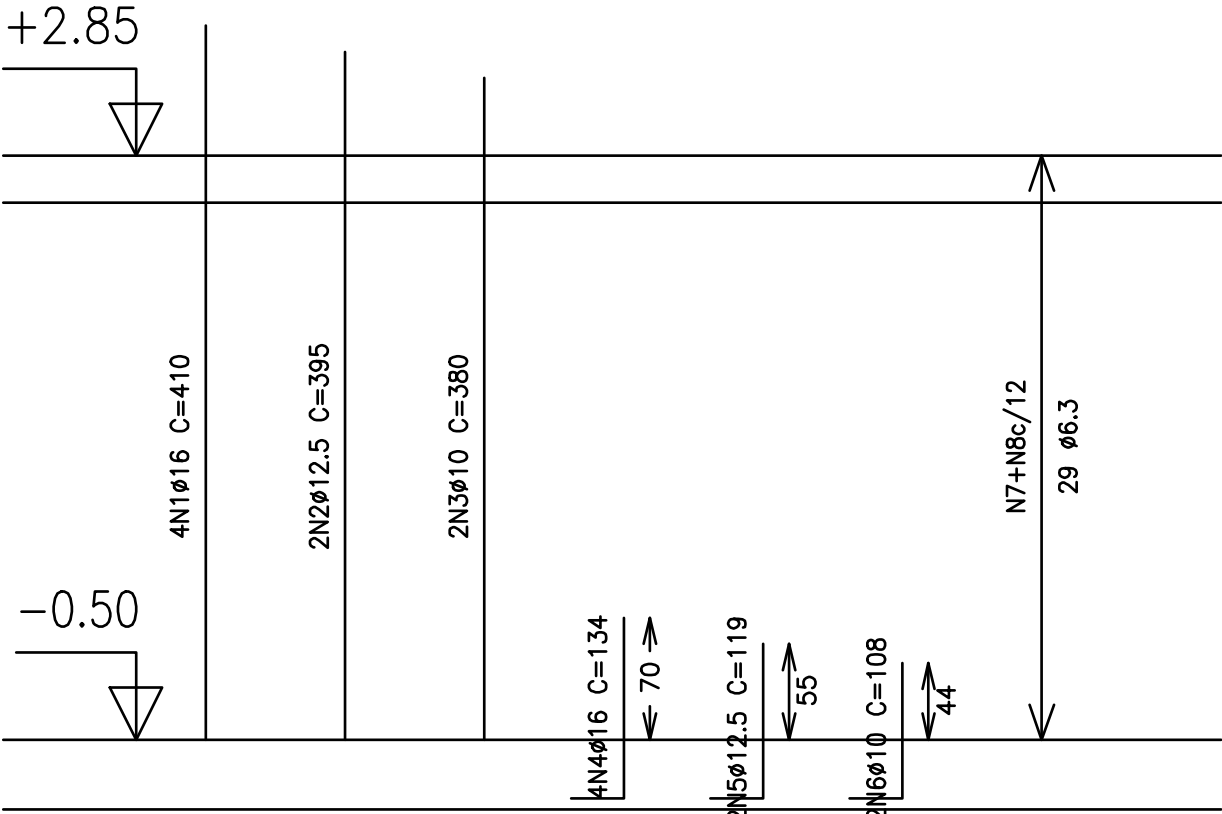
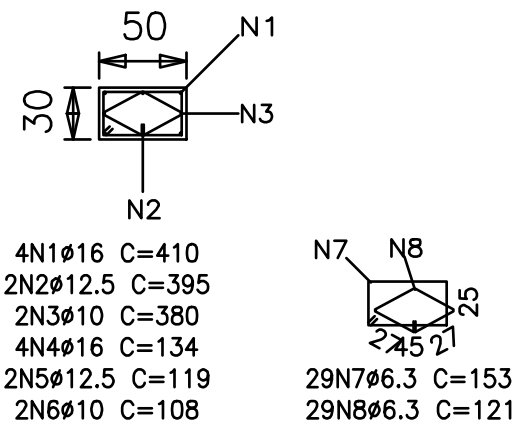
P3=P10

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 2 (cm)
CA-50-A	1	$\varnothing 12.5$	4	100	400	800
"	2	$\varnothing 10$	4	90	360	720
CA-60-B	3	$\varnothing 5$	5	153	765	1530
"	4	$\varnothing 5$	5	116	580	1160



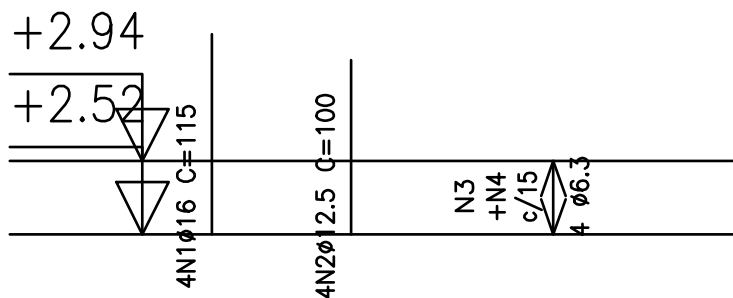
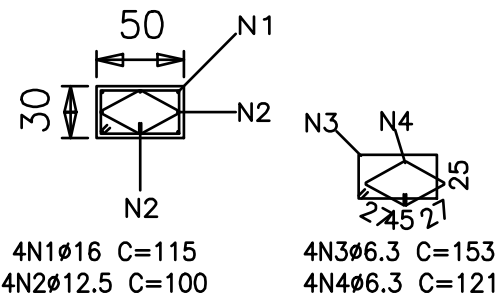
P19

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	$\varnothing 16$	4	410	1640
"	2	$\varnothing 12.5$	2	395	790
"	3	$\varnothing 10$	2	380	760
"	4	$\varnothing 16$	4	134	536
"	5	$\varnothing 12.5$	2	119	238
"	6	$\varnothing 10$	2	108	216
"	7	$\varnothing 6.3$	29	153	4437
"	8	$\varnothing 6.3$	29	121	3509



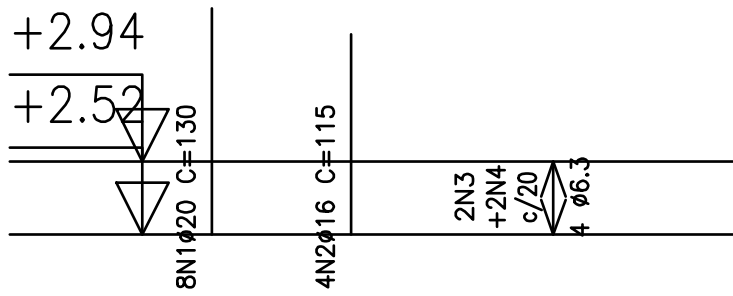
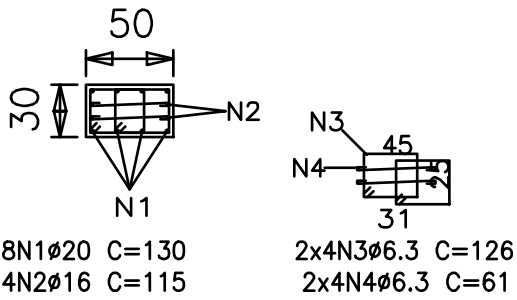
P4=P11

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 2 (cm)
CA-50-A	1	$\varnothing 16$	4	115	460	920
"	2	$\varnothing 12.5$	4	100	400	800
"	3	$\varnothing 6.3$	4	153	612	1224
"	4	$\varnothing 6.3$	4	121	484	968



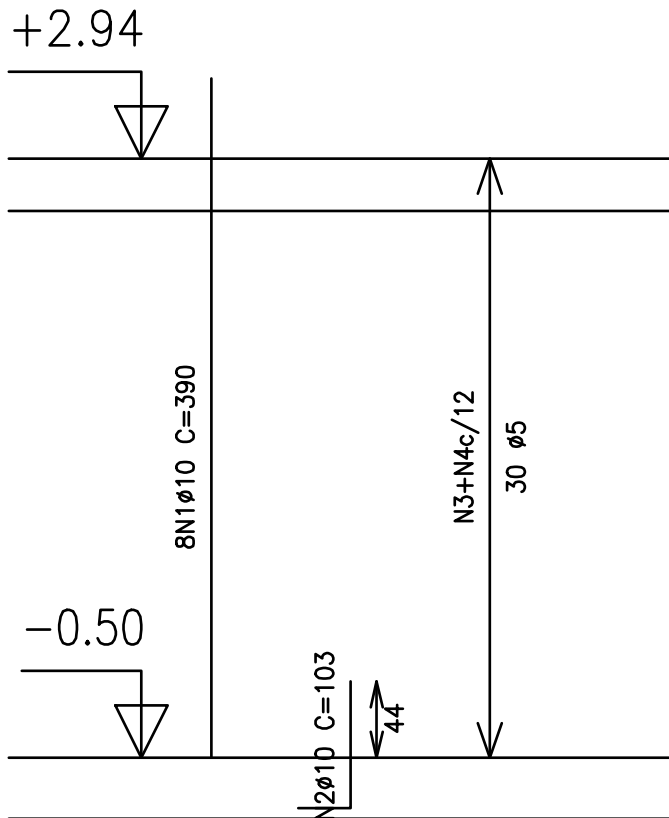
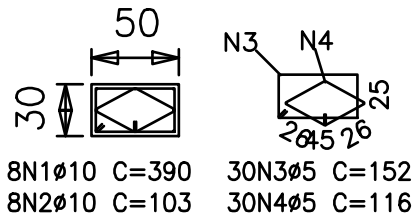
P14=P20

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 2 (cm)
CA-50-A	1	$\varnothing 20$	8	130	1040	2080
"	2	$\varnothing 16$	4	115	460	920
"	3	$\varnothing 6.3$	8	126	1008	2016
"	4	$\varnothing 6.3$	8	61	488	976



P30

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	$\varnothing 10$	8	390	3120
"	2	$\varnothing 10$	8	103	824
CA-60-B	3	$\varnothing 5$	30	152	4560
"	4	$\varnothing 5$	30	116	3480



RAMPA DO RESTAURANTE CAMPUS TÓFILO OTONI AVENIDA DR. LUIS BOALI PORTO SALMAN, S/Nº - BAIRRO IPIRANGA - TEÓFILO OTONI/MG		
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI	CNPJ 16.888.315/0001-57
OBSERVAÇÕES CONFERIR MEDIDAS NA OBRA		
TÍTULO PROJETO DA RAMPA DO RESTAURANTE		
AUTOR PROJETO: ROBSON NOGUEIRA GOMES - CREA 111839/D		
VERSÃO: VERSÃO 1	DATA: 22.05.2013	FOLHA: 29/66