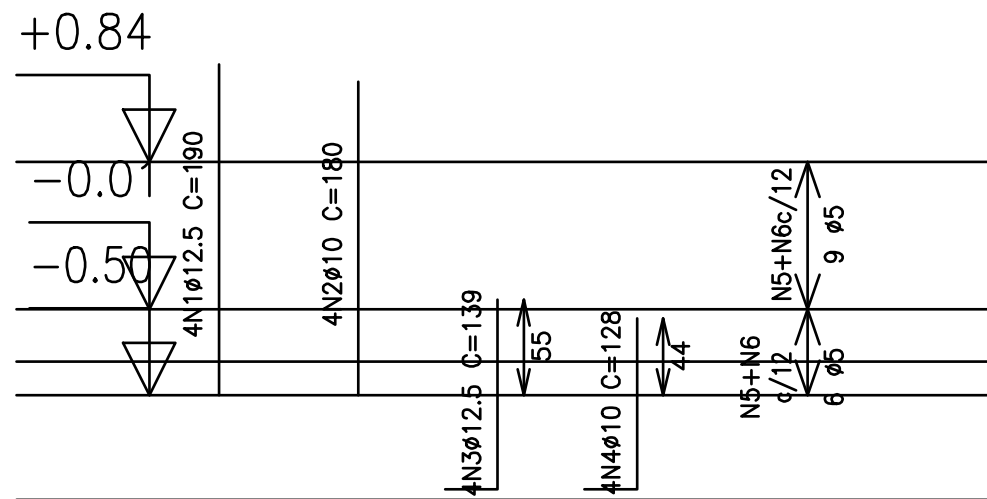
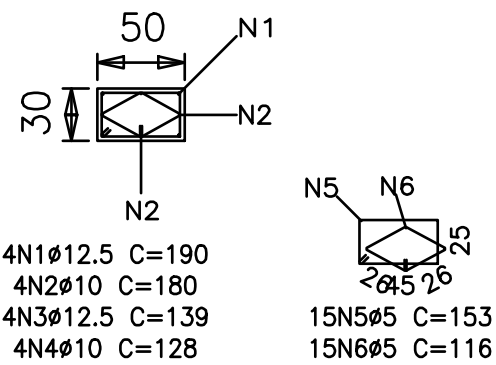


P1

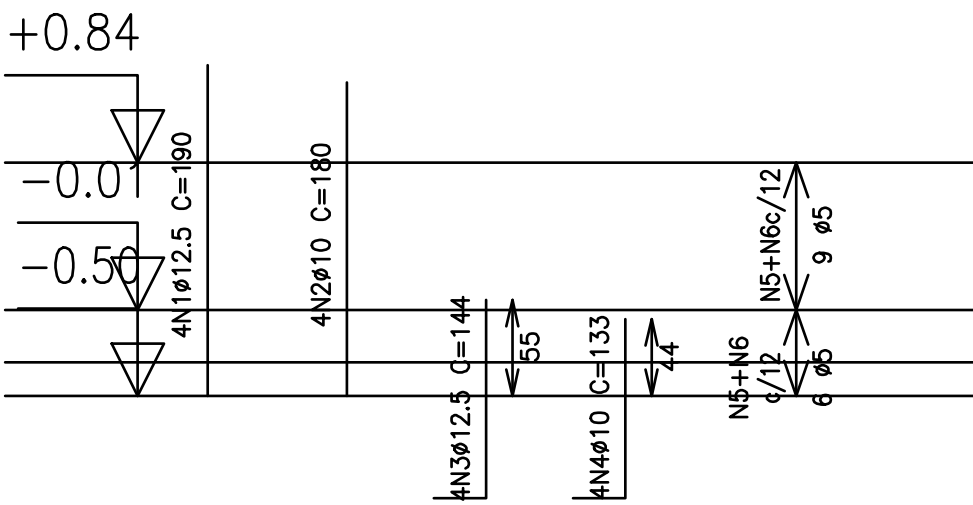
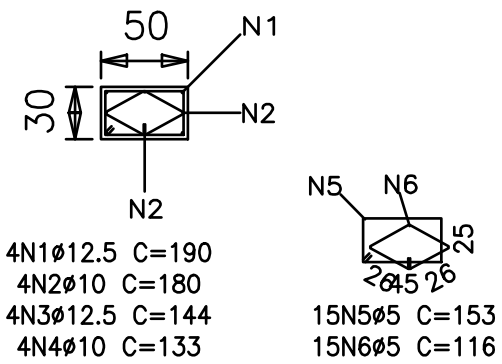
Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	Ø12.5	4	190	760
"	2	Ø10	4	180	720
"	3	Ø12.5	4	139	556
"	4	Ø10	4	128	512
CA-60-B	5	Ø5	15	153	2295
"	6	Ø5	15	116	1740



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

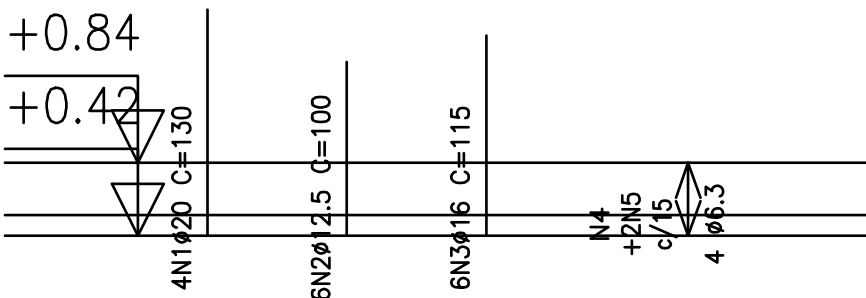
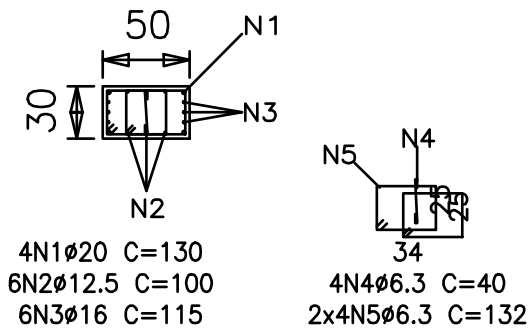
P8

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	Ø12.5	4	190	760
"	2	Ø10	4	180	720
"	3	Ø12.5	4	144	576
"	4	Ø10	4	133	532
CA-60-B	5	Ø5	15	153	2295
"	6	Ø5	15	116	1740



P3

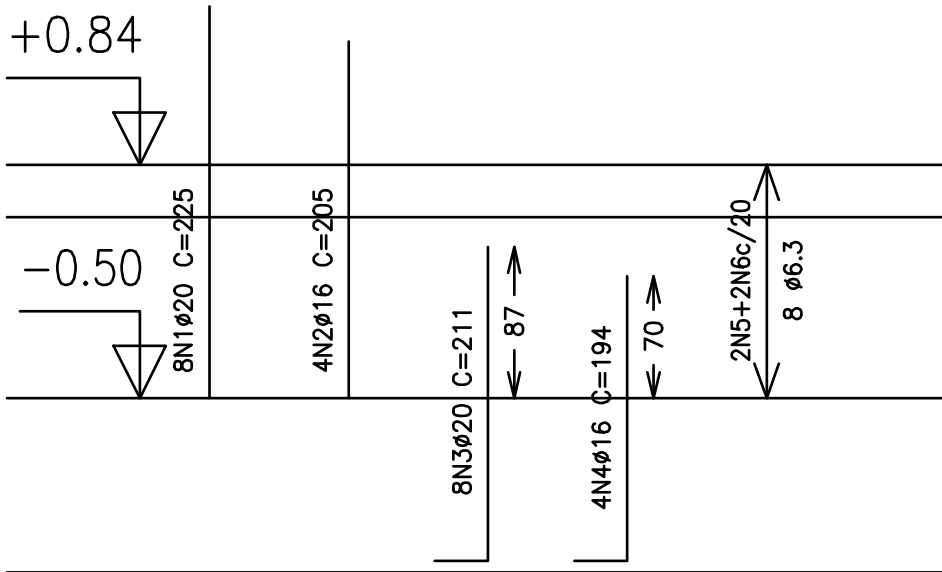
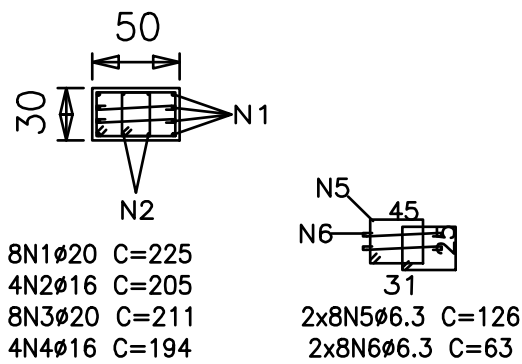
Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	Ø20	4	130	520
"	2	Ø12.5	6	100	600
"	3	Ø16	6	115	690
"	4	Ø6.3	4	40	160
"	5	Ø6.3	8	132	1056



Resumo Aço Piso 1 Pilares		Comp. total (m)	Peso+10% (kg)	Total
CA-50-A	Ø6.3	42.4	12	
	Ø10	24.8	17	
	Ø12.5	32.5	35	
	Ø16	22.9	39	
	Ø20	40.1	109	212
CA-60-B	Ø5	80.7	14	14
Total				226

P10

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	Ø20	8	225	1800
"	2	Ø16	4	205	820
"	3	Ø20	8	211	1688
"	4	Ø16	4	194	776
"	5	Ø6.3	16	126	2016
"	6	Ø6.3	16	63	1008



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: VERSAO 1	DATA: 22.05.2013	AUTOCAD: FOLHA: 24/66