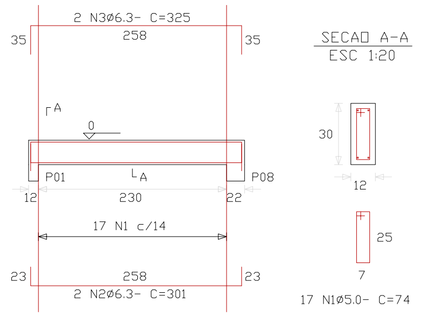
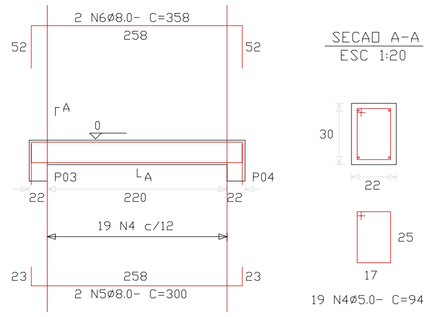
VB1
1:50



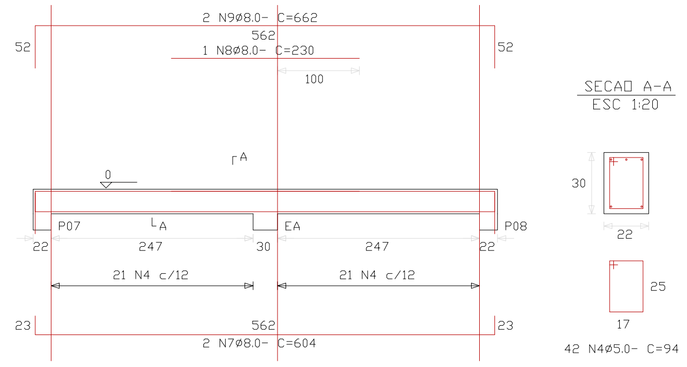
SECAO A-A
ESC 1:20

VB2
1:50



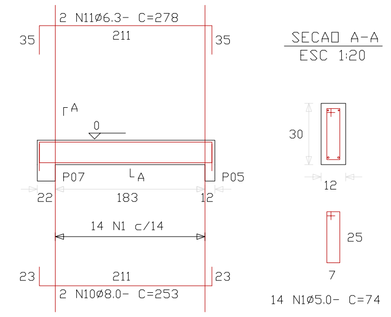
SECAO A-A
ESC 1:20

VB3
1:50



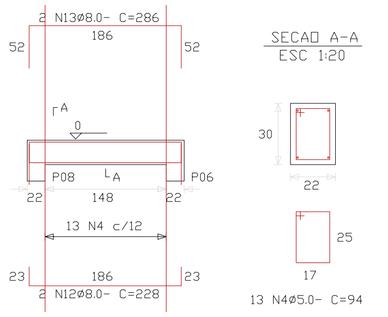
SECAO A-A
ESC 1:20

VB4
1:50



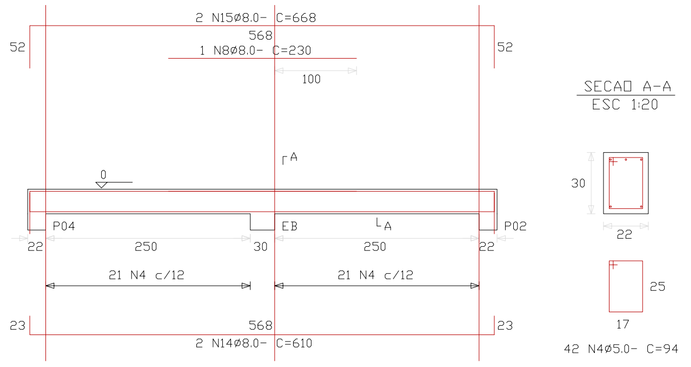
SECAO A-A
ESC 1:20

VB5
1:50



SECAO A-A
ESC 1:20

VB6
1:50



SECAO A-A
ESC 1:20

RELACAO DO ACO

VB1 VB2 VB3
VB4 VB5 VB6
VB7 VB8 VB9
VB10 VB11 VB12

ACO	N	DIAM.	G.	UNIT (cm)	C. TOTAL (cm)
50A	0	6.3	2	301	602
	1	6.3	2	345	690
	11	6.3	2	278	556
	17	6.3	2	298	596
	18	6.3	2	309	618
	19	6.3	2	277	554
	5	8.0	2	306	612
	6	8.0	2	358	716
	7	8.0	2	604	1208
	8	8.0	2	230	460
	9	8.0	2	662	1324
	10	8.0	2	253	506
	12	8.0	2	228	456
	13	8.0	2	286	572
	14	8.0	2	610	1220
	15	8.0	2	668	1336
60	1	5.0	31	74	2294
	4	5.0	116	54	6264
	16	5.0	116	64	7424
	20	5.0	16	244	3904

RESUMO DO ACO

ACO	DIAM.	C. TOTAL (m)	PESO+10% (kgf)
CA50A	6.3	57.9	16
CA50A	8.0	83.9	36
CA60	5.0	226.7	39

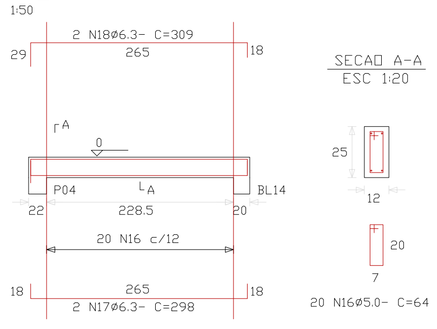
PESO TOTAL

CA50A	52 kgf
CA60	39 kgf

Vol. concreto total = 1.68 m3
Area de forma total = 25.98 m2

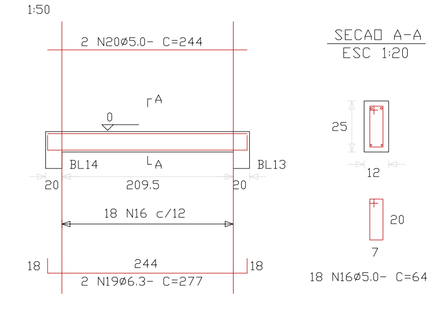
Fck = 20,0 MPa

VB7
1:50



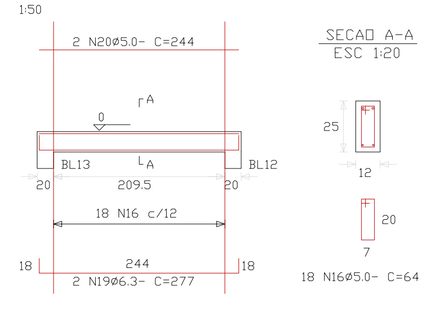
SECAO A-A
ESC 1:20

VB8
1:50



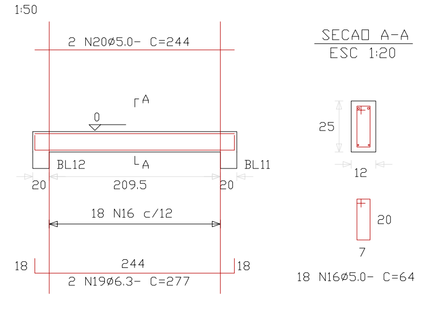
SECAO A-A
ESC 1:20

VB9
1:50



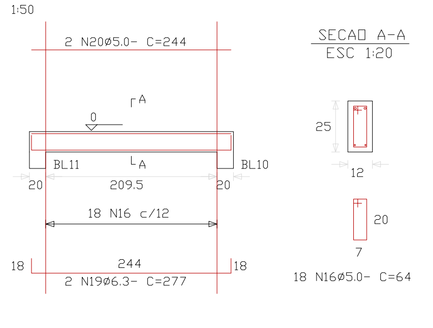
SECAO A-A
ESC 1:20

VB10
1:50



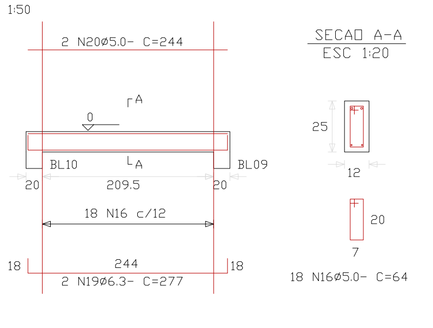
SECAO A-A
ESC 1:20

VB11
1:50



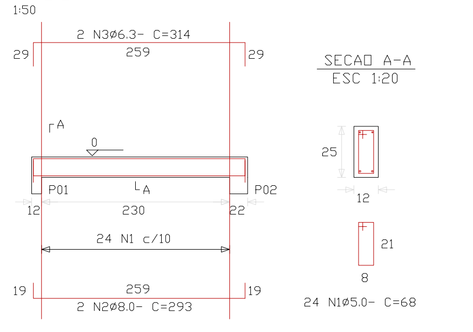
SECAO A-A
ESC 1:20

VB12
1:50



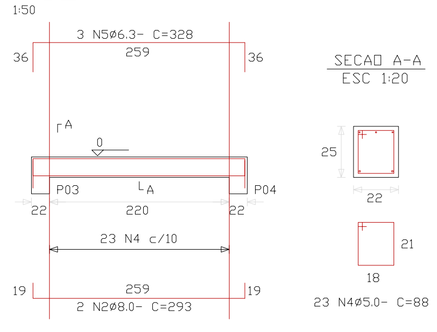
SECAO A-A
ESC 1:20

VC1
1:50



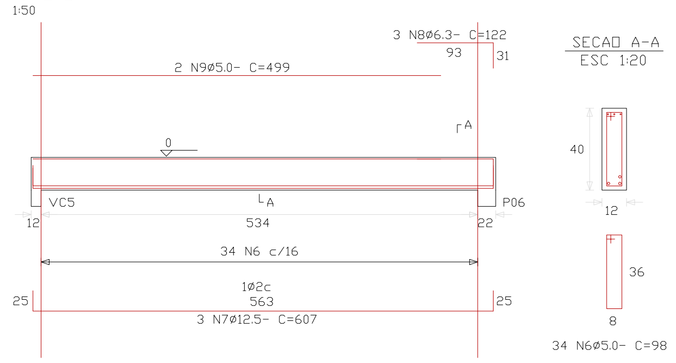
SECAO A-A
ESC 1:20

VC2
1:50



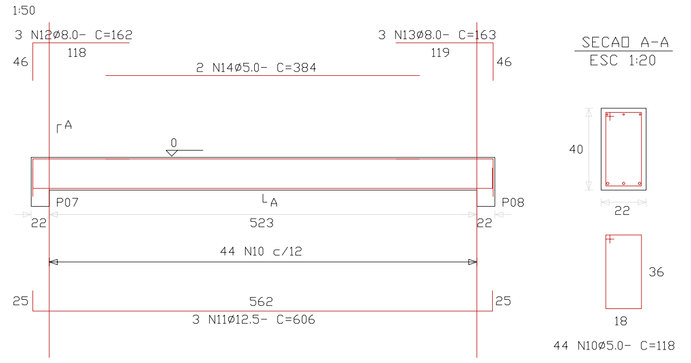
SECAO A-A
ESC 1:20

VC3
1:50



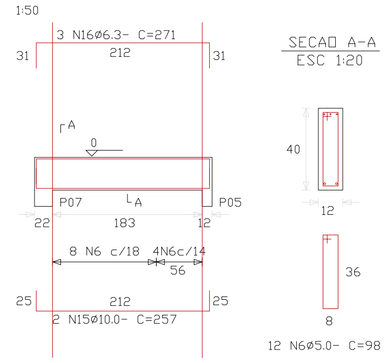
SECAO A-A
ESC 1:20

VC4
1:50



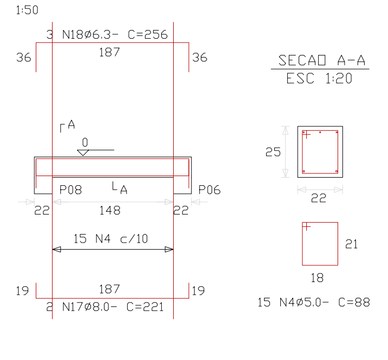
SECAO A-A
ESC 1:20

VC5
1:50



SECAO A-A
ESC 1:20

VC6
1:50



SECAO A-A
ESC 1:20

RELACAO DO ACO

VC1 VC2 VC3
VC4 VC5 VC6
VC7 VC8

ACO	N	DIAM.	G.	UNIT (cm)	C. TOTAL (cm)
50A	3	6.3	2	314	628
	9	6.3	3	328	984
	16	6.3	3	122	366
	18	6.3	3	271	813
	21	6.3	3	256	768
	22	6.3	3	136	408
	23	6.3	3	140	420
	26	6.3	3	150	450
	5	8.0	4	293	1172
	10	8.0	2	162	486
	13	8.0	3	163	489
	17	8.0	2	221	442
	19	10.0	6	257	514
	7	12.5	3	667	1861
	8	12.5	3	666	1818
	24	12.5	3	634	1962
	25	12.5	3	618	1854
60	1	5.0	24	68	1632
	4	5.0	78	88	3344
	6	5.0	46	98	4508
	15	5.0	2	499	998
	16	5.0	44	118	5192
	14	5.0	6	384	768
	19	5.0	29	108	3132
	23	5.0	2	438	876
	24	5.0	45	148	6660
	27	5.0	2	406	812

RESUMO DO ACO

ACO	DIAM.	C. TOTAL (m)	PESO+10% (kgf)
CA50A	6.3	58.8	16
CA50A	8.0	25.8	11
CA50A	10.0	5.1	4
CA50A	12.5	73.9	88
CA60	5.0	276.2	47

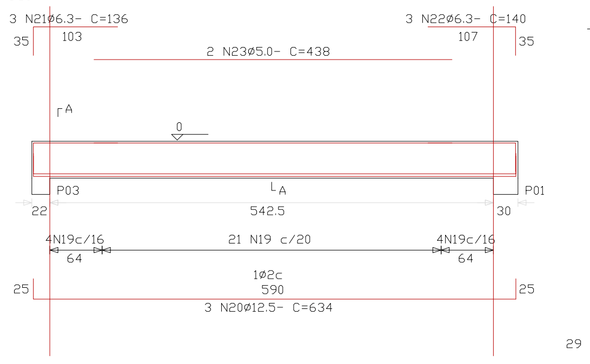
PESO TOTAL

CA50A	111 kgf
CA60	47 kgf

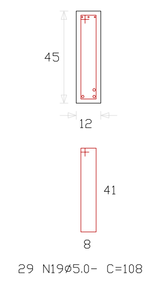
Vol. concreto total = 2.10 m3
Area de forma total = 30.47 m2

Fck = 20,0 MPa

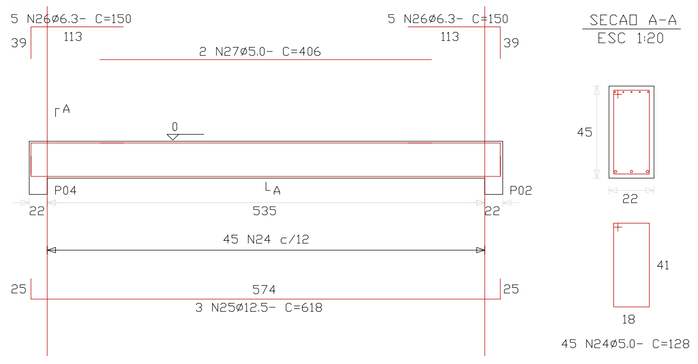
VC7
1:50



SECAO A-A
ESC 1:20



VC8
1:50



SECAO A-A
ESC 1:20

ANEXO I

LUMA ENGENHARIA LTDA

CONTEÚDO:
VIGAS BALDRAMES
VIGAS DA COBERTURA

ÁREAS:

ÁREA EXISTENTE:	191,87 M2
ÁREA DE AMPLIAÇÃO:	73,34 M2
ÁREA TOTAL:	265,21 M2
ÁREA TERRENO:	M2

PROJETO ESTRUTURAL

FOLHA 02/02

ASSUNTO: OBRA INSTITUCIONAL

TÍTULO DO PROJETO: AMPLIAÇAO E REFORMA - UBS N.H.ANTÔNIO DE CONTI

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE PEDERNEIRAS

LOCAL: AV. JOSEPHINA LORENZETTI, N° 8-1055, NUCLEO HABITACIONAL ANTÔNIO DE CONTI, PEDERNEIRAS-SP

RESPONSÁVEL PROJETO: LUCIANA PEREIRA PINHEIRO DA SILVEIRA - CAU 41315-1- RN 260877515

ESCALA: ESCALA INDICADA

DATA: MARÇO/2014