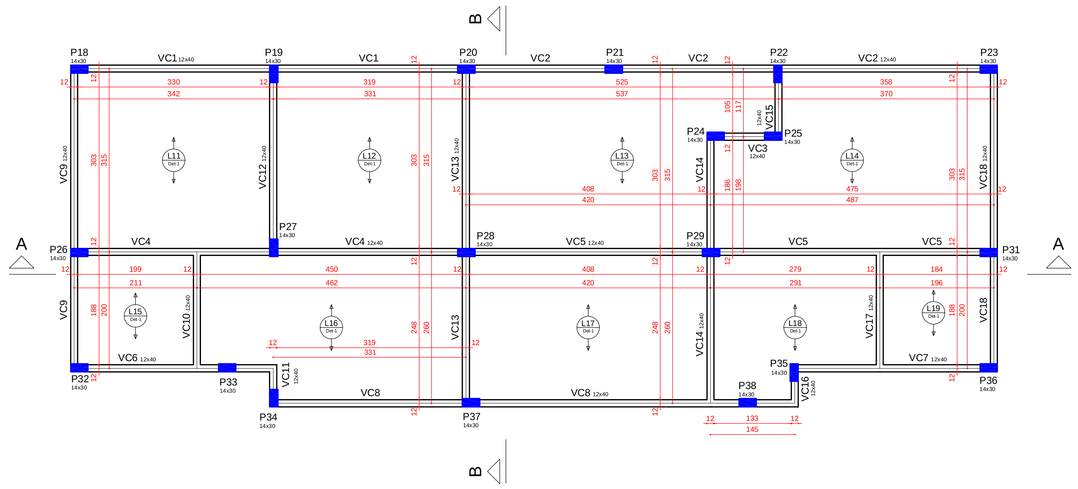


Forma do pavimento Cobertura (Nível 290)
escala 1:50

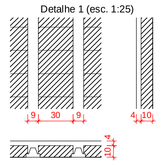
Lajes							
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Sobrecarga (kgf/m²)	Telhado (kgf/m²)	Revestimento (kgf/m²)
L11	Pré-moldada	14	0	290	50	100	70
L12	Pré-moldada	14	0	290	50	100	70
L13	Pré-moldada	14	0	290	50	100	70
L14	Pré-moldada	14	0	290	50	100	70
L15	Pré-moldada	14	0	290	50	100	70
L16	Pré-moldada	14	0	290	50	100	70
L17	Pré-moldada	14	0	290	50	100	70
L18	Pré-moldada	14	0	290	50	100	70
L19	Pré-moldada	14	0	290	50	100	70

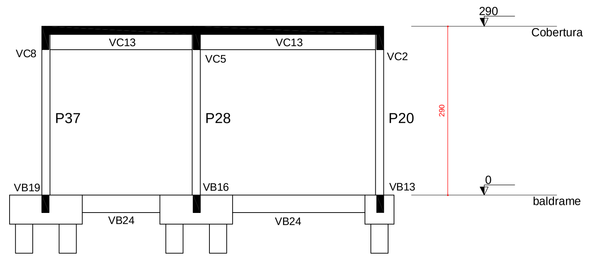
Blocos de enchimento					
Detalhe	Tipo	Nome	Dimensões(cm)		
			hb	bx	by
1	Lajota cerâmica	8/10/30/20	10	30	20

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	280000

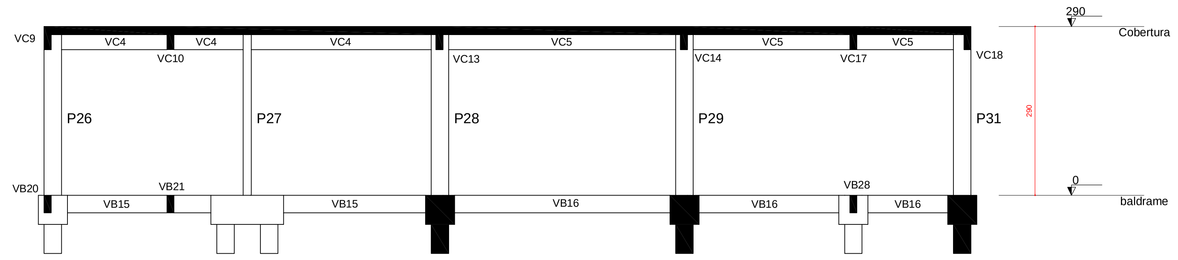
Legenda dos Pilares
- Pilar que morre
- Pilar que passa
- Pilar que nasce
- Pilar com mudança de seção

Detalhe 1 (esc. 1:25)

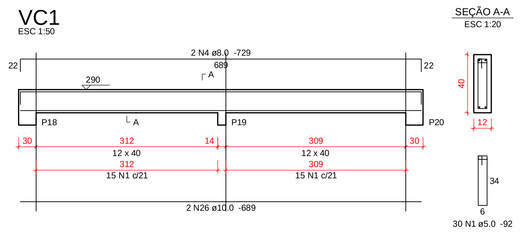


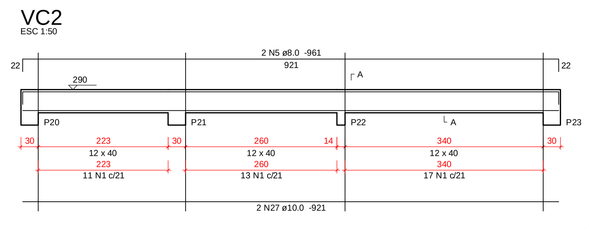


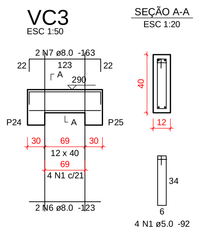
Corte B-B
escala 1:50

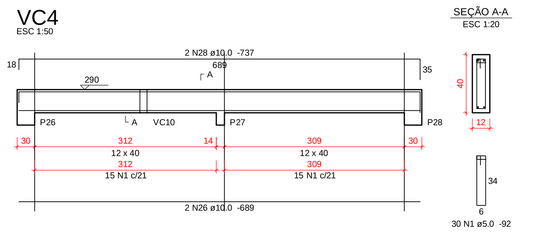


Corte A-A
escala 1:50









Relação do aço

VC1	VC2	VC3
VC4	VC5	VC6
VC7	VC8	VC9
VC10	VC11	VC12
VC13	VC14	VC15
VC16	VC17	VC18

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	352	92	32384
	2	5.0	1	127	127
	3	5.0	4	153	612
CA50	4	8.0	2	729	1458
	5	8.0	2	961	1922
	6	8.0	4	123	492
	7	8.0	4	163	652
	8	8.0	4	222	888
	9	8.0	4	206	824
	10	8.0	2	356	712
	11	8.0	2	388	776
	12	8.0	2	350	700
	13	8.0	2	390	780
	14	8.0	4	521	2084
	15	8.0	4	561	2244
	16	8.0	2	74	148
	17	8.0	2	118	236
	18	8.0	2	323	646
	19	8.0	2	370	740
	20	8.0	2	581	1162
	21	8.0	2	621	1242
	22	8.0	2	474	948
	23	8.0	2	518	1036
	24	8.0	2	76	152
	25	8.0	2	120	240
	26	10.0	4	689	2756
	27	10.0	2	921	1842
	28	10.0	2	737	1474
	29	10.0	2	910	1820
	30	10.0	2	931	1862
	31	12.5	2	432	864
	32	12.5	2	484	968
	33	12.5	1	280	280
	34	12.5	2	981	1962

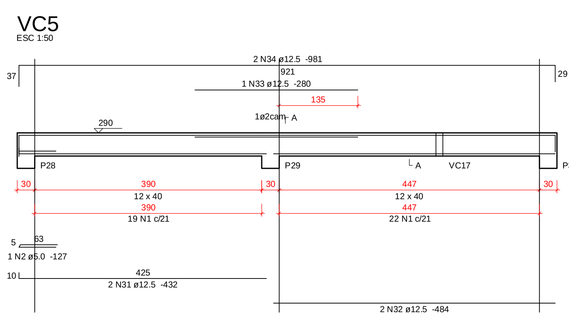
Resumo do aço

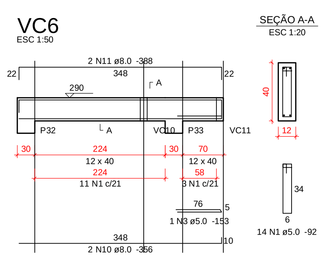
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	200.9	87.2
	10.0	97.6	66.2
	12.5	40.8	43.2
CA60	5.0	331.3	56.2

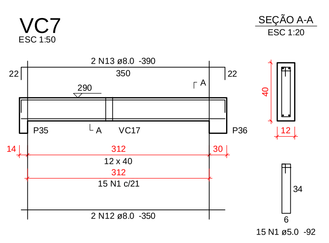
PESO TOTAL (kg)	
CA50	196.5
CA60	56.2

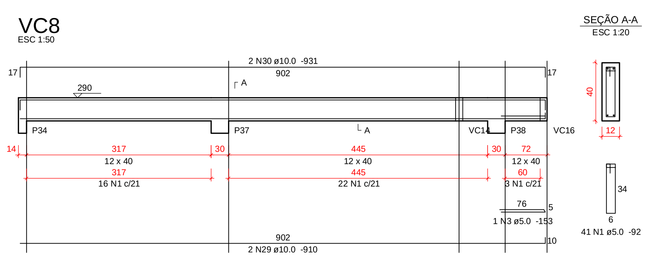
Volume de concreto (C-25) = 3.9 m³
Área de forma = 74.81 m²

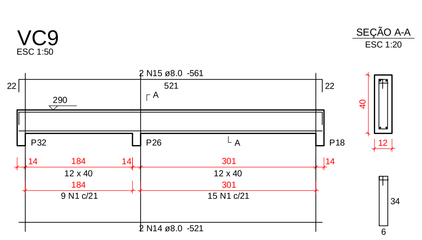
OBSERVAÇÕES:
- cobrimento para vigas e pilares = 3cm
- o sentido das lajes deverá ser rigorosamente obedecido

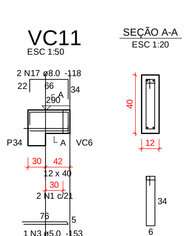


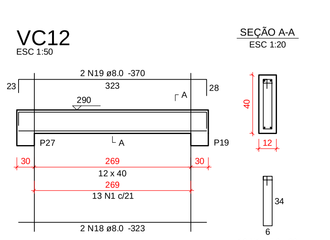


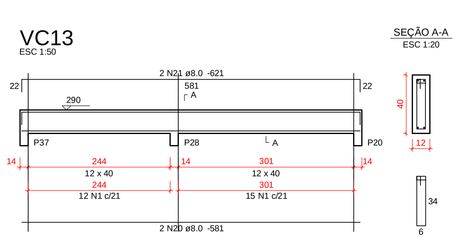


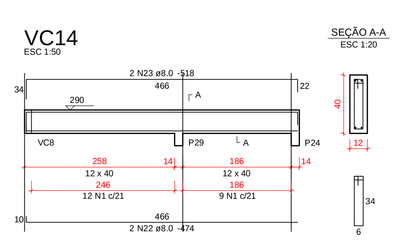


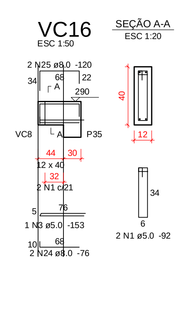


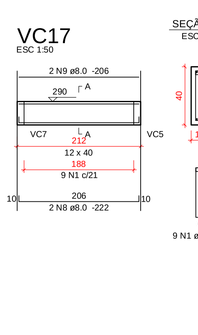


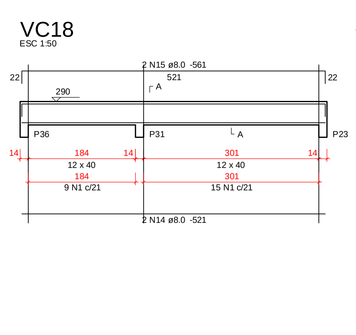


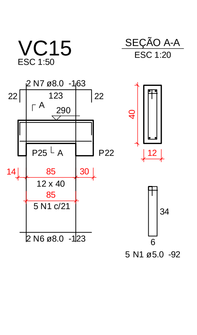


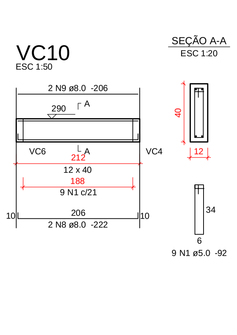












Vigas de Cobertura e Lajes - FCK=25 MPa

PREFEITURA MUNICIPAL DE GOIÂNIA

SEINFRA - SECRETARIA MUNICIPAL DE INFRAESTRUTURA E SERVIÇOS PÚBLICOS

DIRETORIA DE POLÍTICAS E PROGRAMAÇÃO DE OBRAS PÚBLICAS - GERÊNCIA DE ESTUDOS E PROJETOS

OBRA:

CMEI VILA SANTA HELENA
- MODIFICAÇÃO COM ACRÉSCIMO DE ÁREA E REFORMA -

LOCAL: RUA 15 C/ RUA DA DIVISA C/ RUA J - VILA SANTA HELENA - GOIÂNIA - GO

GESTOR(A) RESPONSÁVEL:
SECRETARIA MUNICIPAL DE EDUCAÇÃO - SME

AUTOR DO PROJETO:
Eng.º Civil RENATO RIBEIRO DE PAIVA - CREA/GO 7303/D
SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS
- SEINFRA -

-ESTRUTURAL-

CONTEÚDO: Bloco Administrativo
- Forma do pavimento Cobertura
- Detalhes das vigas de Cobertura
- Cortes A-A e B-B

PRANCHA: 4/4

ESCALA: Indicadas

QUADRO DE ÁREAS

ÁREA A SER CONTRUÍDA: 176,20m²

ARQUIVO DIGITAL:	NUM. PAV.:	DESENHO:	DATA:
CMEI - Vila Santa Helena - Estrutural - 2018	01	RENATO	Junho/ 2018

APROVAÇÃO:

DIREITOS AUTORAIS RESERVADOS, VEDADA A REPRODUÇÃO TOTAL OU PARCIAL SE PRIO 08

FORMATO: 1183 x 835