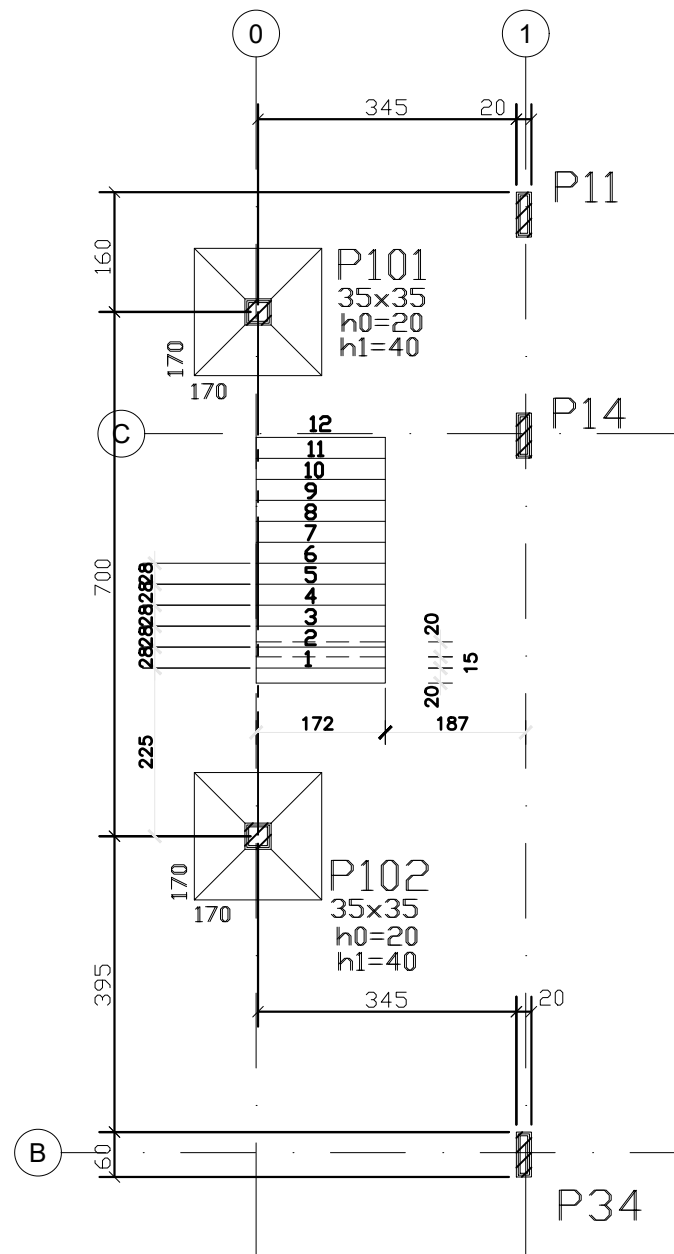
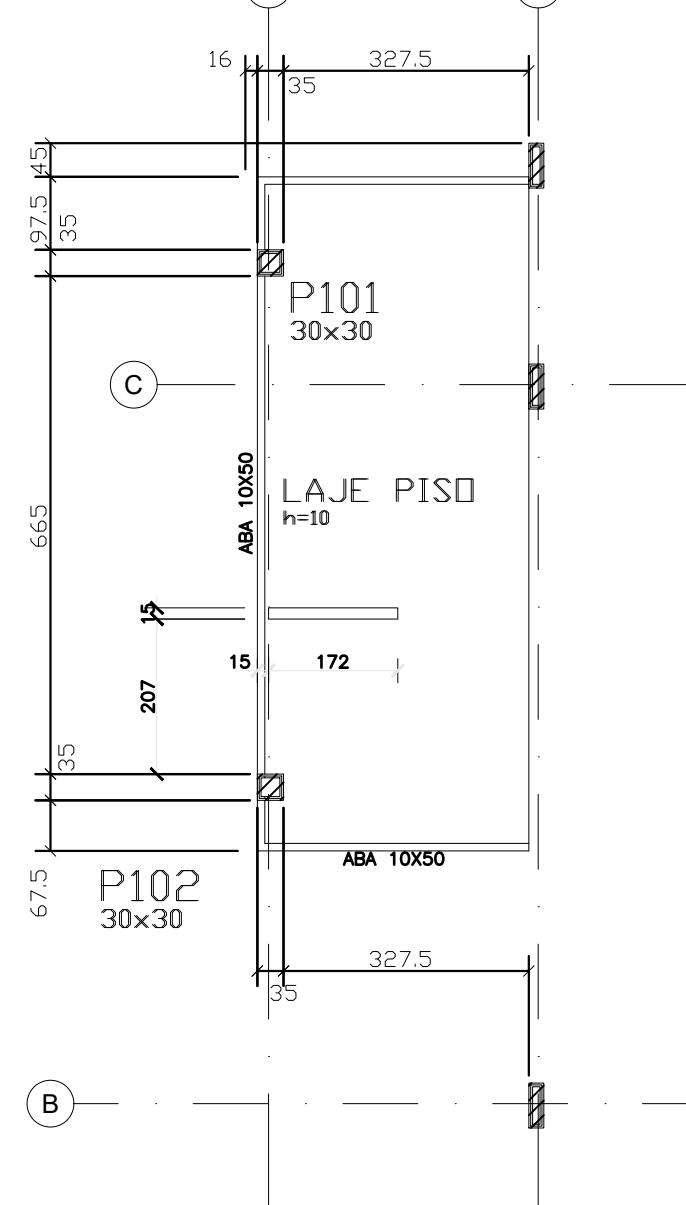


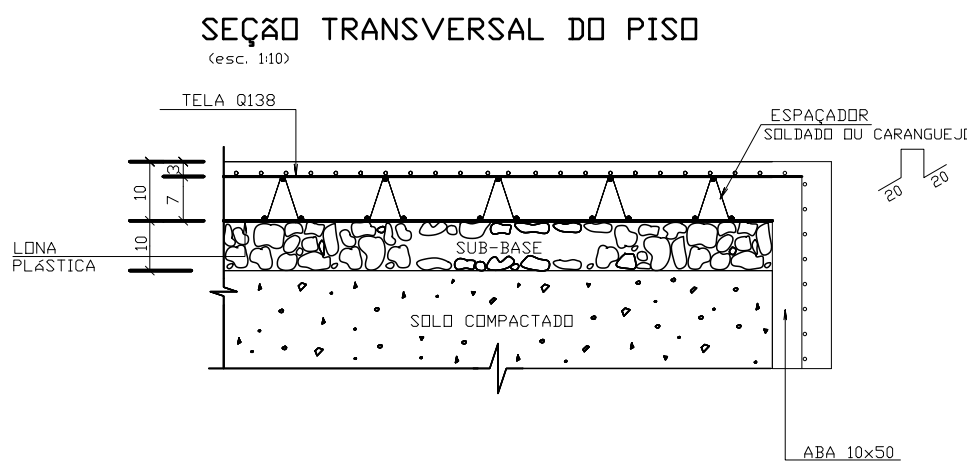
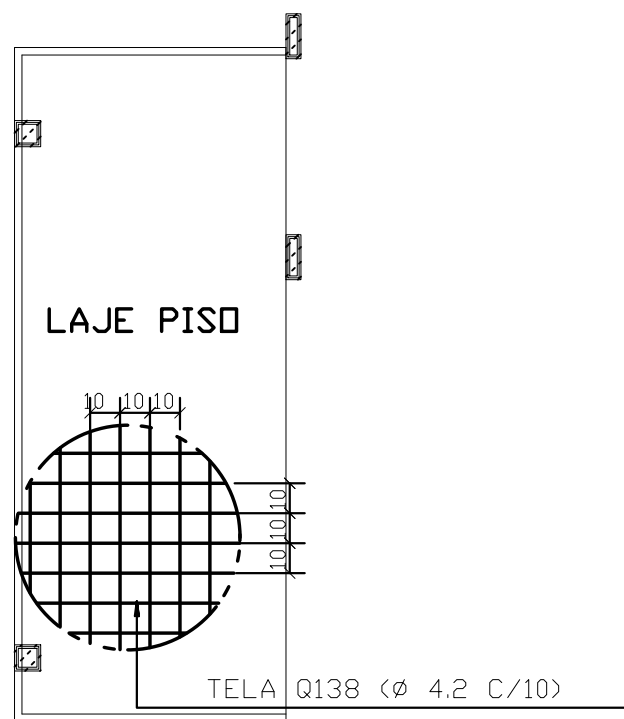
LOCAÇÃO DOS PILARES NOVOS
(esc.1:100)



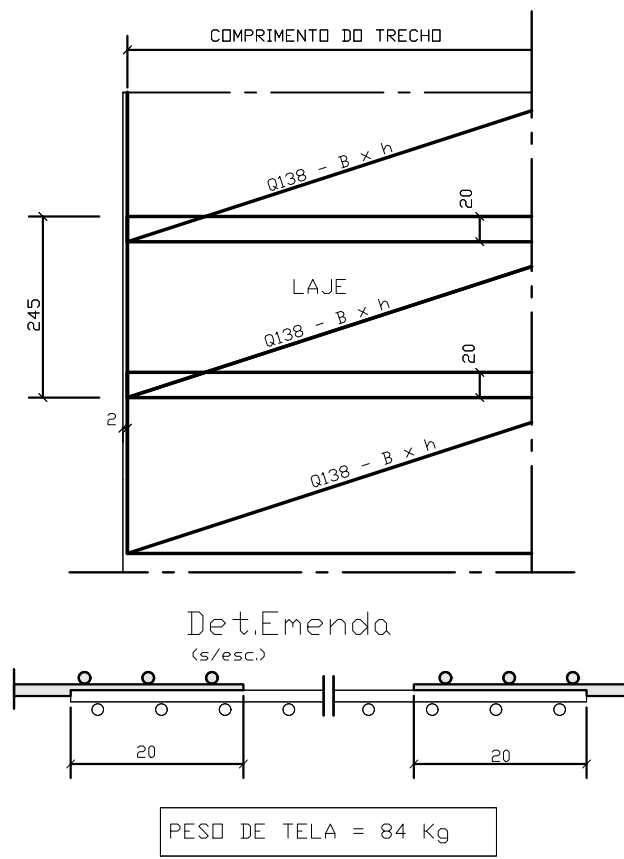
FORMA PISO TERREO
(esc.1:100)



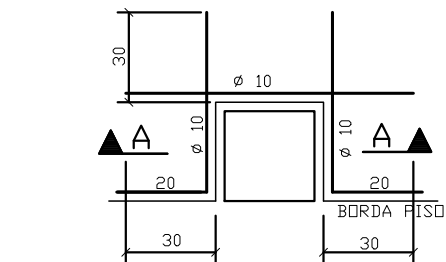
ARM.LAJE TERREO
(esc.1:100)



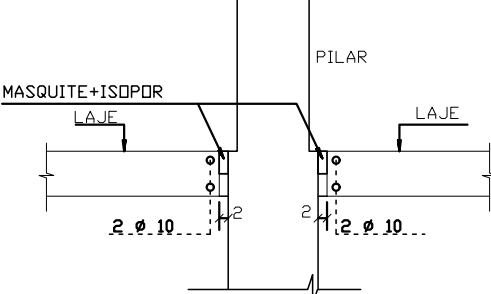
DET. PADRÃO TRASPASSE
TELA (Q-138) PISO
(s/esc.)



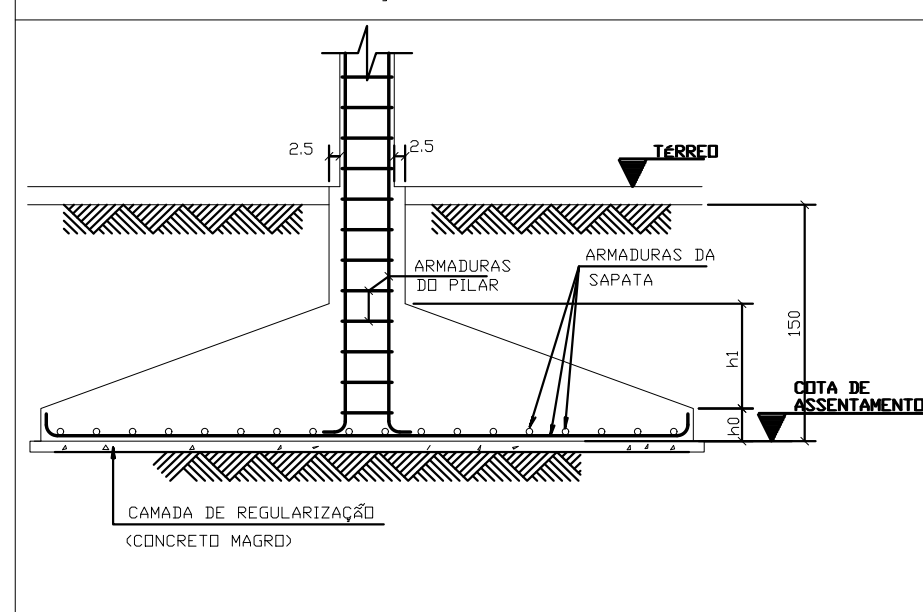
DET.01
DET.REFORÇO ABERTURA PILARES
(s/esc.)



CORTE A-A



DETALHE DE LIGAÇÃO PILAR/SAPATA

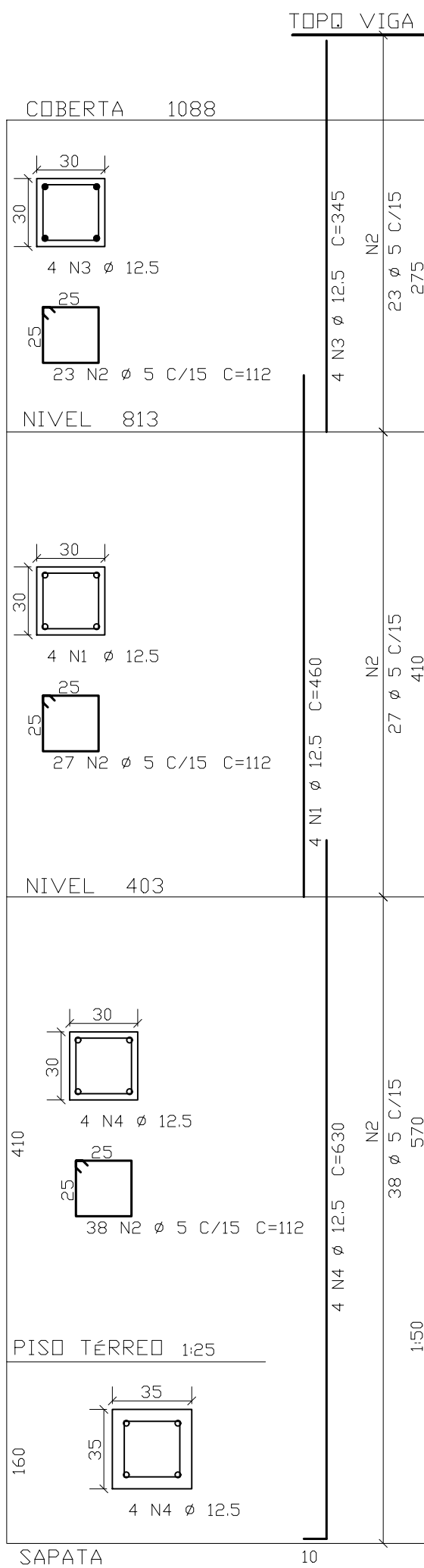


CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

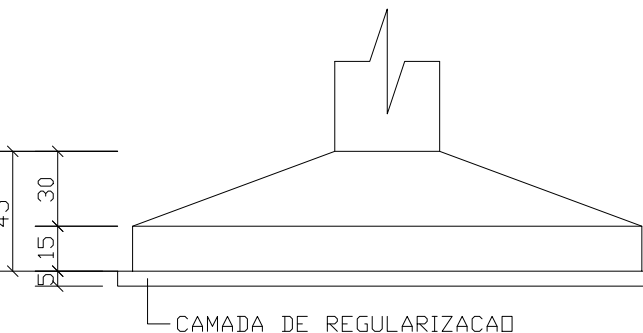
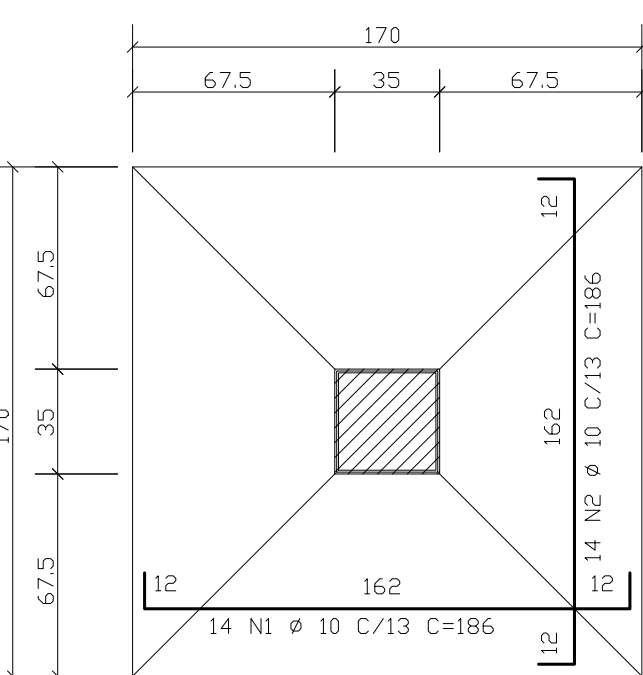
NOTAS

- 1 - CUIDAR P/ O TRANSITO DE OPERÁRIOS NÃO DANIFICAR O POSICIONAMENTO DAS ARMADURAS.
 - 2 - PROCEDER O ESPALHAMENTO UNIFORME DO CONCRETO.
 - 3 - O ADENSAMENTO DO CONCRETO DEVE SER EXECUTADO, PREFERENCIALMENTE C/ REGUA VIBRATÓRIA. NÃO É PROIBIDO O USO DE VIBRADOR DE IMERSÃO.
 - 4 - A PLACA DEVE SER EXECUTADA EM UMA ÚNICA CAMADA.
 - 5 - APÓS O ADENSAMENTO, PROCEDER A REGULARIZAÇÃO E O ACABAMENTO SUPERFICIAL DA PLACA.
 - 6 - EXECUTAR CURA INICIAL IMEDIATAMENTE APÓS AS OPERAÇÕES DE ACABAMENTO DO CONCRETO.
 - 7 - EXECUTAR CURA COMPLEMENTAR APÓS O FIM DE PEGA DO CONCRETO. A CURA COMPLEMENTAR DEVE PROLONGAR-SE ATÉ QUE O CONCRETO TENHA ALCANÇADO PELO MENOS 75% DE SUA RESISTÊNCIA FINAL.
 - 8 - AS JUNTAS SERRADAS DEVERÃO SER FEITAS APÓS PERÍODO DE 8 A 12 HORAS DEPOIS DE CONCLUÍDA A CONCRETAGEM DA PLACA.
 - 9 - O PREENCHIMENTO DAS JUNTAS COM SELANTE DEVE SER FEITO ENTRE 30 A 45 DIAS APÓS A CONCRETAGEM DO PISO.
- SUB-BASE: Pá de PEDRA COMPACTADO
G.C. > 98% DO PROCTOR INTERMEDIÁRIO
CBR > 20%
- SOLDO COMPACTADO
G.C. > 98% DO PROCTOR NORMAL
CBR > 10%
- NOTA: OPCIONALMENTE A SUB-BASE PODERIA SER EXECUTADA COM CONCRETO MAGRO SECO, COMPACTADO COM ROLLO. (CONSUMO DE CIMENTO POR METRO CUBICO DE APROXIMADAMENTE 150 Kg).

P101=P102



DET.01
V=1,30m3
P101=P102



ELEMENTO	POS	BIT (mm)	QUANT	COMPRIM. UNIT.
P101=P102	(X2)	1	12,5	8
		2	12,5	176
		3	12,5	8
		4	12,5	8
DET.01	(X2)	1	10	28
		2	10	28
		3	10	186
		4	10	196

RESUMO AÇO CA 50-60			
ACÓ	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	197	32
50A	10	104	66
50A	12,5	115	115
Peso Total		60B =	32 kg
Peso Total		50A =	180 kg

VIDA ÚTIL: VUP_{MIN} = 50 ANOS
PARA QUE O DESEMPENHO DA ESTRUTURA SEJA GARANTIDO DURANTE SUA VIDA ÚTIL É NECESSÁRIO:

NORMAS RELACIONADAS

- NBR 6118 - 2014 - PROJETO DE ESTRUTURA EM CONCRETO - PROCEDIMENTO;
- NBR 8681 - AÇES E SEGURANÇA NAS ESTRUTURAS - PROCEDIMENTO;
- NBR 6120 - CARGAS PARA CÁLCULO DE ESTRUTURAS E EDIFICAÇÕES;
- NBR 6123 - FORÇAS DEVIDAS AO VENTO EM EDIFICAÇÕES;
- NBR 14531 - EXECUÇÃO DE ESTRUTURAS DE CONCRETO - PROCEDIMENTO;
- NBR 15200 - PROJETO DE ESTRUTURAS DE CONCRETO EM SITUAÇÃO DE INCÊNDIO;
- NBR 15421 - PROJETO DE ESTRUTURAS RESISTENTES A SISMOS - PROCEDIMENTO;
- NBR 15575 - DESEMPENHO DE EDIFICAÇÕES HABITACIONAIS;

CONSTRUTOR E INCORPORADOR

ELABORAR O MANUAL DE OPERAÇÃO E MANUTENÇÃO DO DOCUMENTO SIMILAR-ATENDENDO NBR 14537 E NBR 5674, O QUAL DEVE SER ENTREGUE AO PROPRIETÁRIO DA EDIFICAÇÃO OU UNIDADE HABITACIONAL.

USUÁRIO

REALIZAR AS AÇES DE MANUTENÇÃO DE ACORDO COM O ESTABELECIDO NA NBR 5674 E O MANUAL DE USO, OPERAÇÃO E MANUTENÇÃO E RECOMENDAÇÕES TÉCNICAS DAS INSPEÇÕES PRECIAIS.

NOTAS SAPATAS:



- 1- MEDIDAS EM CENTÍMETROS.
- 2- COTA DE ASSENTAMENTO DAS FUNDAÇÕES: 1,10m.
- 3- TENSÃO ADMISSÍVEL NO SOLDO: 2,00 kgf/cm².
- 4- ESTES VALORES ESTÃO DE ACORDO COM O RELATÓRIO DA SONDAGEM FORNECIDO POR Eng. Sérgio Corvo e Feitosa.

5- DURANTE A EXECUÇÃO, AS CAVAS DAS FUNDAÇÕES DEVERÃO SER EXAMINADAS POR TÉCNICO ESPECIALIZADO, PARA DETECTAR POSSÍVEIS OCORRÊNCIAS QUE POSSAM INTERFERIR NA CAPACIDADE DE SUPORTE DO SOLDO TAIS COMO: SUMIDOUROS, FISSURAS, CISTERNAS, FORMIGUEIROS, ETC.

R00	EMIÇÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

DOCUMENTOS DE REFERÊNCIA:

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-
-

 R. Carlos de Almeida, 100 Bairro: Santa Helena, 13050-000, São Paulo, SP	Nº DO CONTRATO 031/2019-COGIC		PROCESSO 25389.000/189/2017-19	
	COORDENADOR DA META MARLY ZIED		FISCAL DE CONTRATO TAMIRES PAZ	
 Ministério da Saúde Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras	NOME DO ARQUIVO GED 30000393-03-OS8-C00-EST-DE-1001-R01.DWG		NOME DO PRÉDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA	
	Nº PRÉDIO 602		CAMPUS RONDÔNIA	SETOR EDIFICAÇÃO
OBJETIVO CONSTRUÇÃO		O.E./O.R. NOME DO ARQUIVO SIENGE		EST-0001
TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO		FASE PROJETO EXECUTIVO		
TÍTULO DA PRANCHA LOCAÇÃO DOS PILARES NOVOS		DATA NOVEMBRO/2020		
PILARES SAPATAS E FORMA/ARM PISO TÉRREO		ESCALA INDICADA		
COORDENADOR ALEXANDRE LANDIM		RESPONSÁVEL TÉCNICO AMÉRICO FARIAS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS
EQUIPE ARCHITECTUS				

EST-0001

FRANCAIA AT - 360 x 600 mm

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(esc.1:100)
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1. INSERÇÃO DAS BARRAS NA ESTRUTURA EXISTENTE.
A. EXECUTAR FURO COM BROCA DE DIÂMETRO IMEDIATAMENTE SUPERIOR
AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;

B. LIMPAR E PREENCHER OS FURDS COM ADESIVO ESTRUTURAL A BASE DE EPÓXI (SIKADUR-32 OU SIMILAR);

- C. INTRODUZIR AS BARRAS NOS FURDOS E CONCRETAR A PEÇA COM CONCRETO DE $f_{ck} \geq 30$ MPa.
- D. AO APICAR E PERFURAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.
- E. AS DOBRAS DAS EXTREMIDADES DOS ESTRIBOS DEVERÃO SER DOBRADAS APÓS A MONTAGEM.

CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

-E NECESSÁRIO ESCORAR CONVENIENTEMENTE OS TRECHOS DA ESTRUTURA ADJACENTES À REGIÃO QUE SERÁ DEMOLIDA.

-AS MESAS DAS LAJES NERVURADAS E TOPO DAS NERVURAS DEVERÃO SER REMOVIDAS NAS REGIÕES HACHURADAS EM PLANTA



- AS VIGAS EXTERNAS A REFORCAR DEVERÃO RECEBER OS SEGUINTE PROCEDIMENTOS.



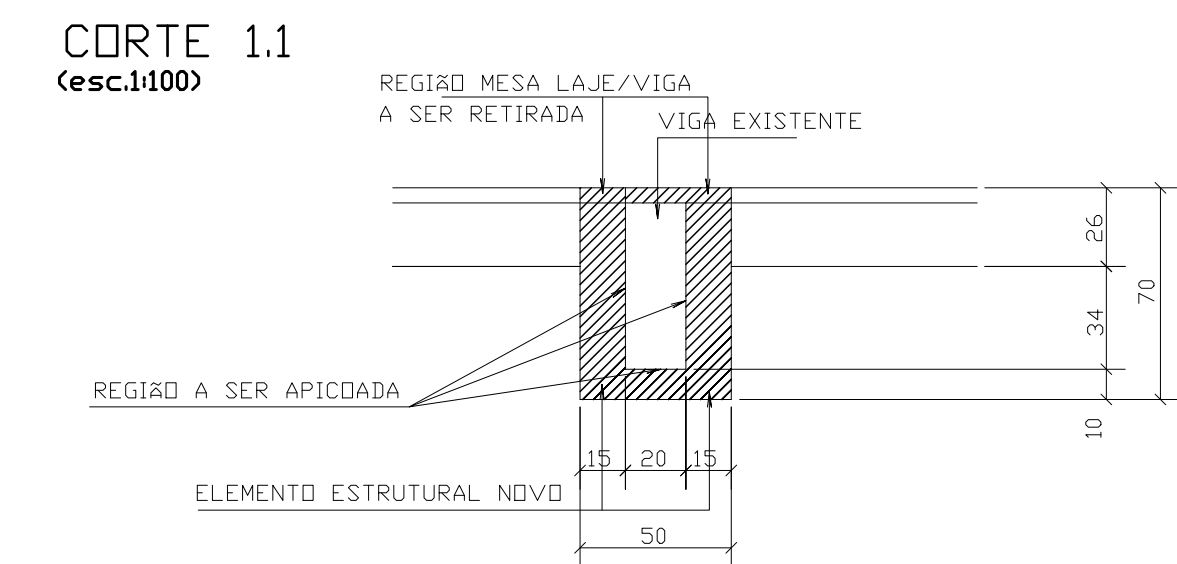
NOTA:

- OS ELEMENTOS SOMBREADOS DEVERAO SER DEMOLIDOS

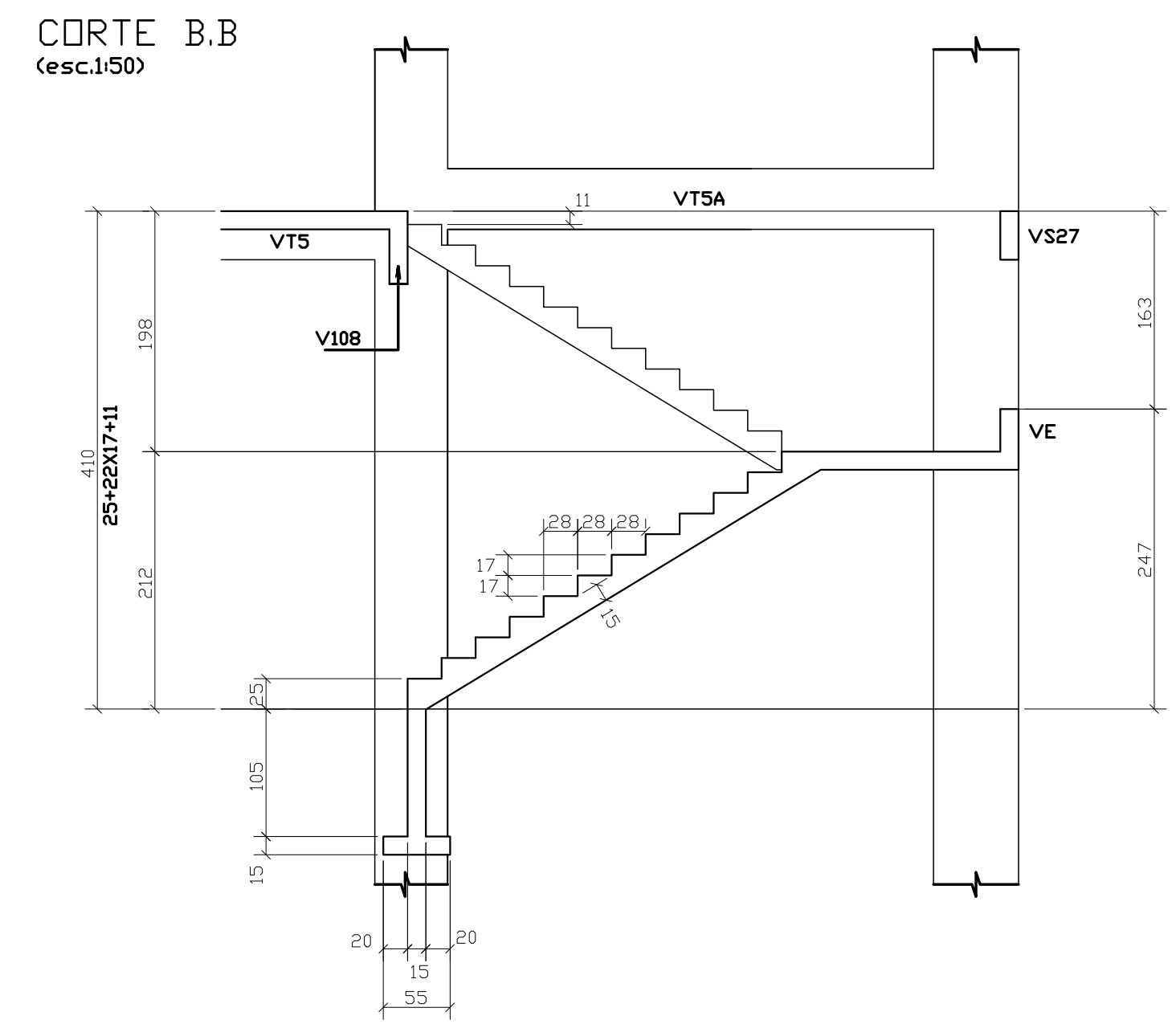
- AS VIGAS INTERNAS A REFORÇAR DEVERÃO RECEBER OS SEGUINTE PROCEDIMENTOS


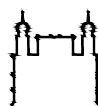


EST-1002



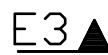
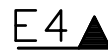
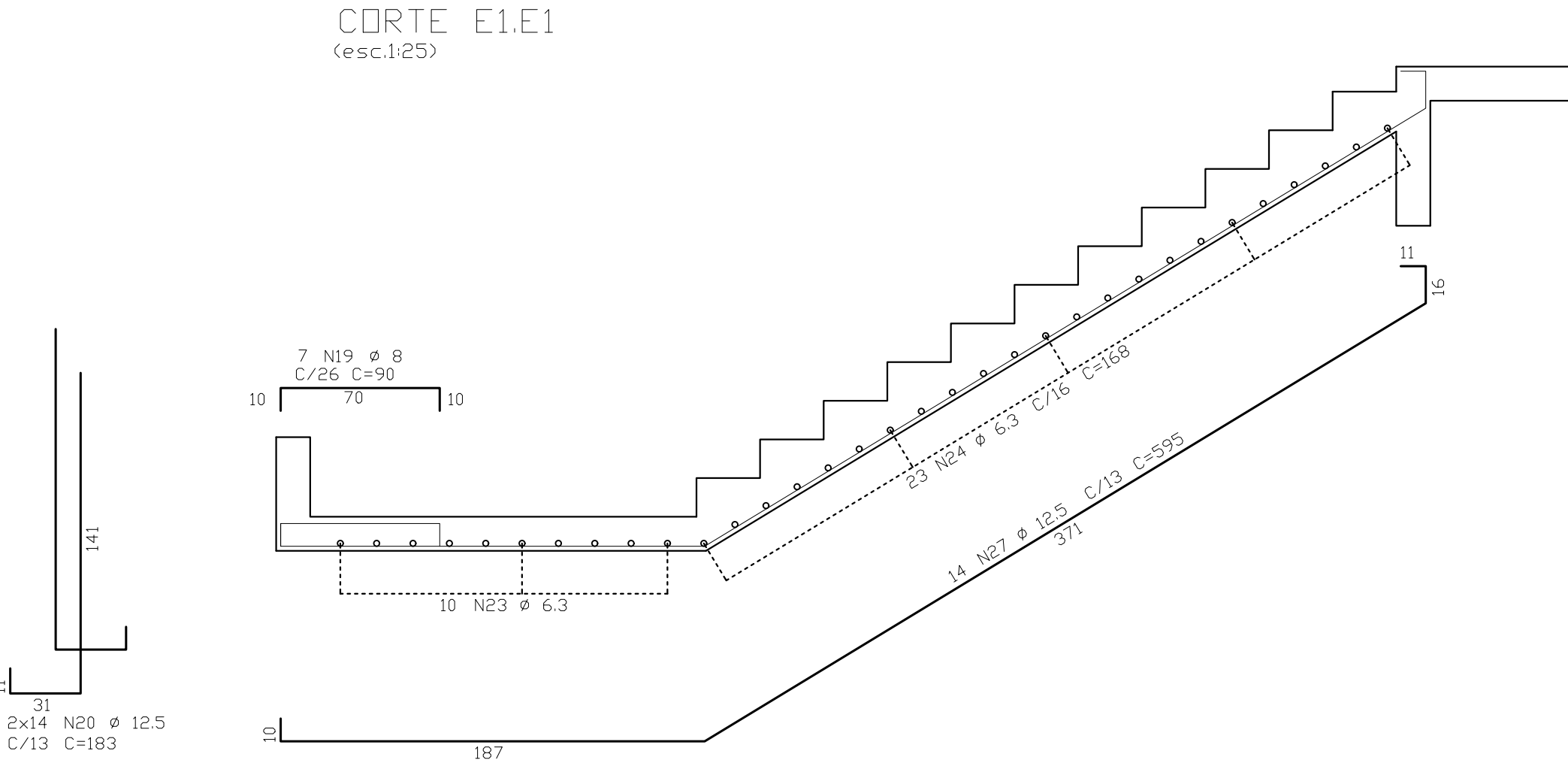
CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$



R00	EMISSÃO INICIAL		HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO		HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO		REVISADO POR	RESP. TÉCNICO	DATA
DOCUMENTOS DE REFERÊNCIA:					
<div style="text-align: center;">  <p>Ministério da Saúde FIOCRUZ Fundação Oswaldo Cruz</p> </div>					
		Nº DO CONTRATO 031/2019-COGIC			
		PROCESSO 25389.000189/2017-19			
		COORDENADOR DA META MARLY ZIED		FISCAL DE CONTRATO TAMIRES PAZ	
		NOME DO ARQUIVO GED 30000393-03-OS8-C00-EST-DE-1003-R01.DWG			
		NOME DO PREDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA			
		EST-0003			
Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras					
OBJETIVO		Nº DA META	SETOR		
CONSTRUÇÃO		2017.027	EDIFICAÇÃO		
TIPO DE PROJETO / SUBTIPO DE PROJETO		O.E. / O.R.	NOME DO ARQUIVO SIENGE		
ESTRUTURA DE CONCRETO		FASE PROJETO EXECUTIVO			
TÍTULO DA PRANCHA				DATA	
FORMA NOVA NIVEL 403				NOVEMBRO/2020	
		ESCALA		INDICADA	
COORDENADOR ALEXANDRE LANDIM		RESPONSÁVEL TÉCNICO AMÉRICO FARIAS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	
EQUIPE ARCHITECTUS					

EST-0003

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(esc.1:100)
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1. INSERÇÃO DAS BARRAS NA ESTRUTURA EXISTENTE.
A. EXECUTAR FURO COM BROCA DE DIÂMETRO IMEDIATAMENTE SUPERIOR
AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;

B. LIMPAR E PREENCHER OS FURROS COM ADESIVO ESTRUTURAL À BASE DE EPÓXI (SIKADUR-32 OU SIMILAR);

C. INTRODUZIR AS BARRAS NOS FUROS E CONCRETAR A PEÇA COM CONCRETO DE $f_{ck} \geq 30$ MPa.

D. AO APICAR E PERFURAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.

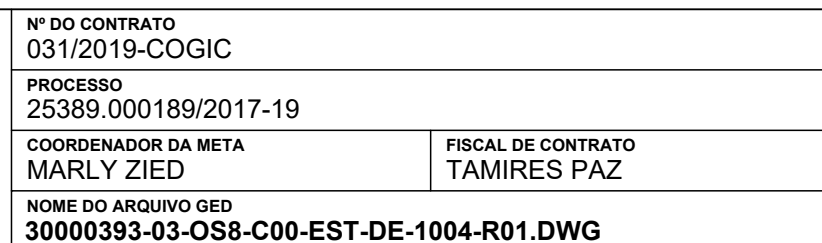
E. AS DOBRAS DAS EXTREMIDADES DOS ESTRIBOS DEVERÃO SER DOBRADAS APÓS A MONTAGEM.



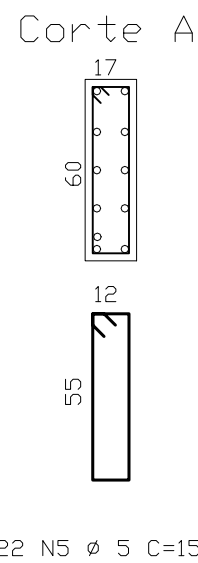
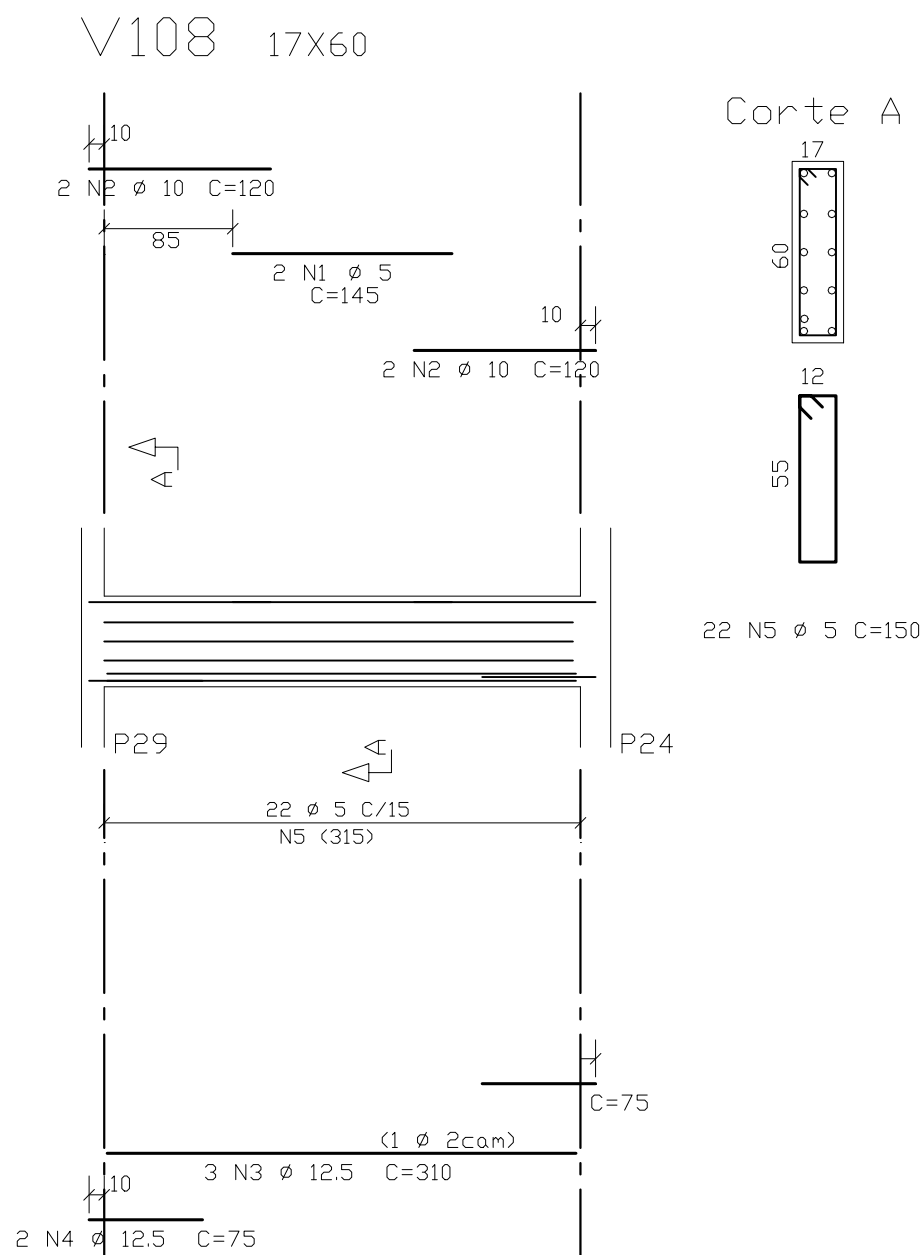
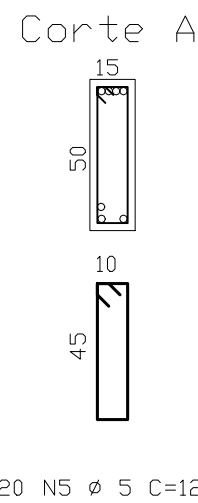
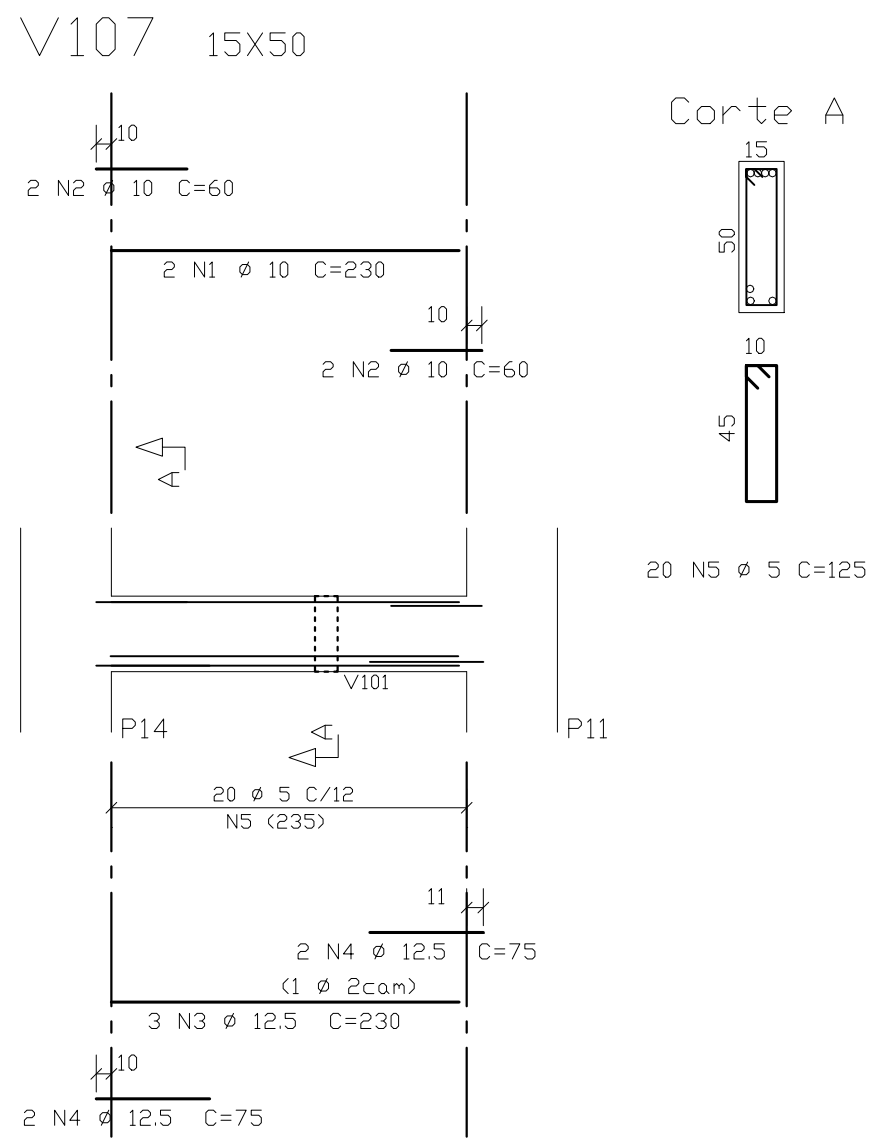
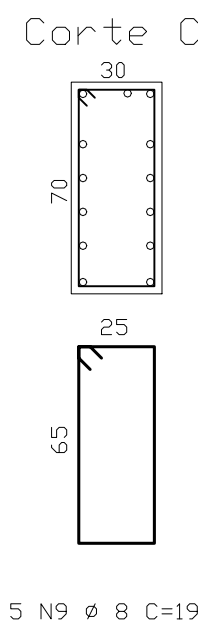
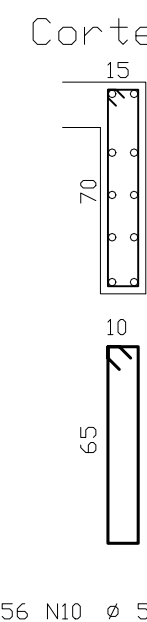
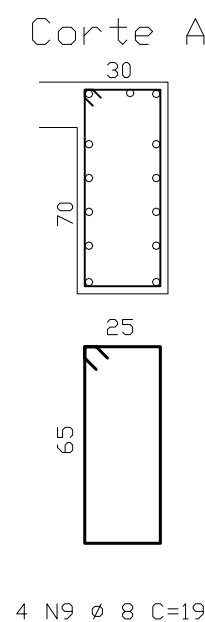
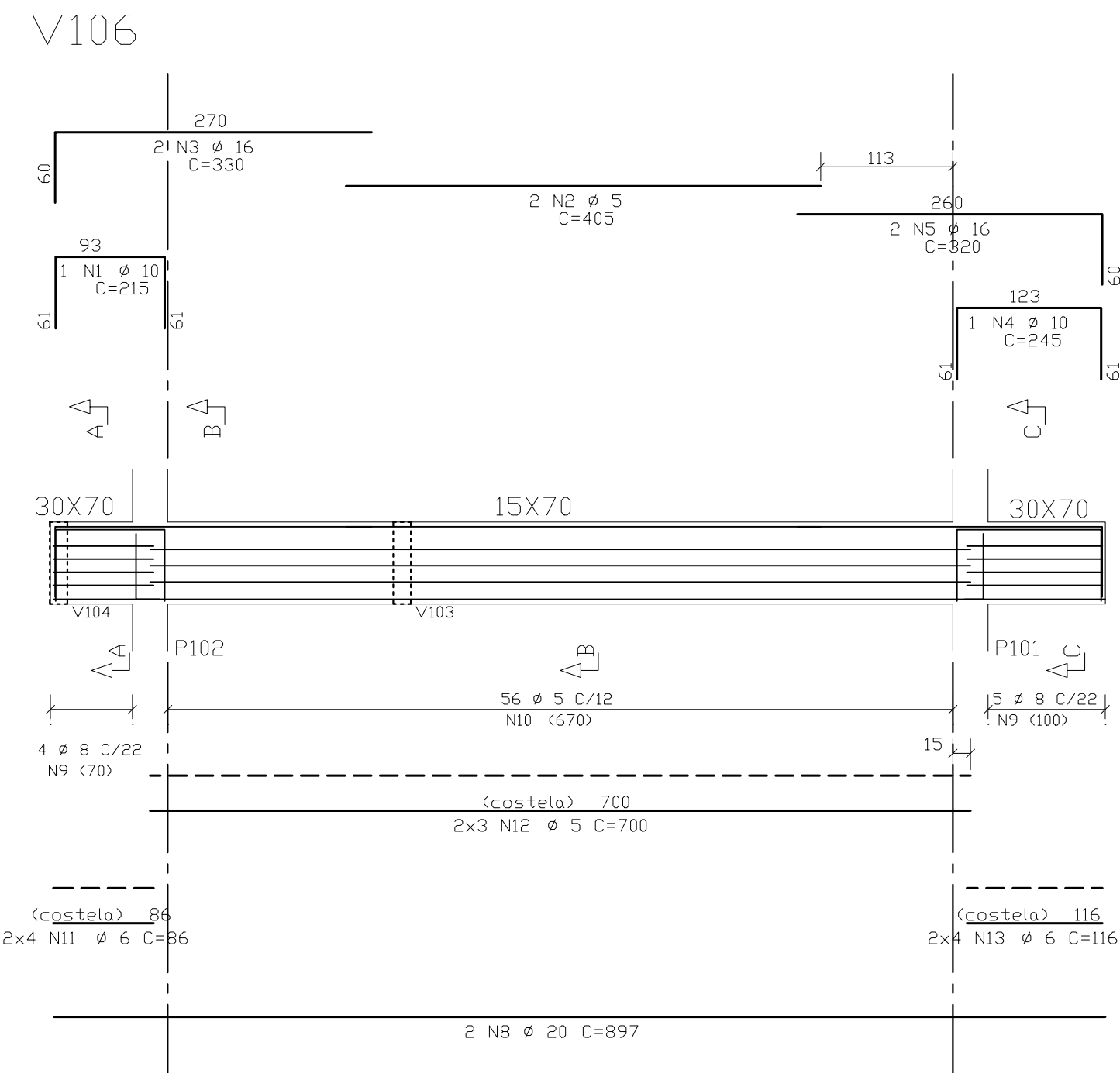
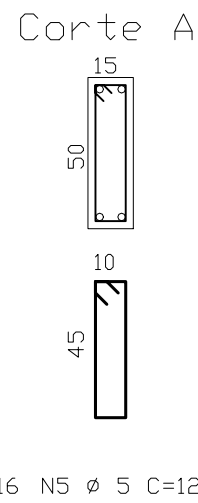
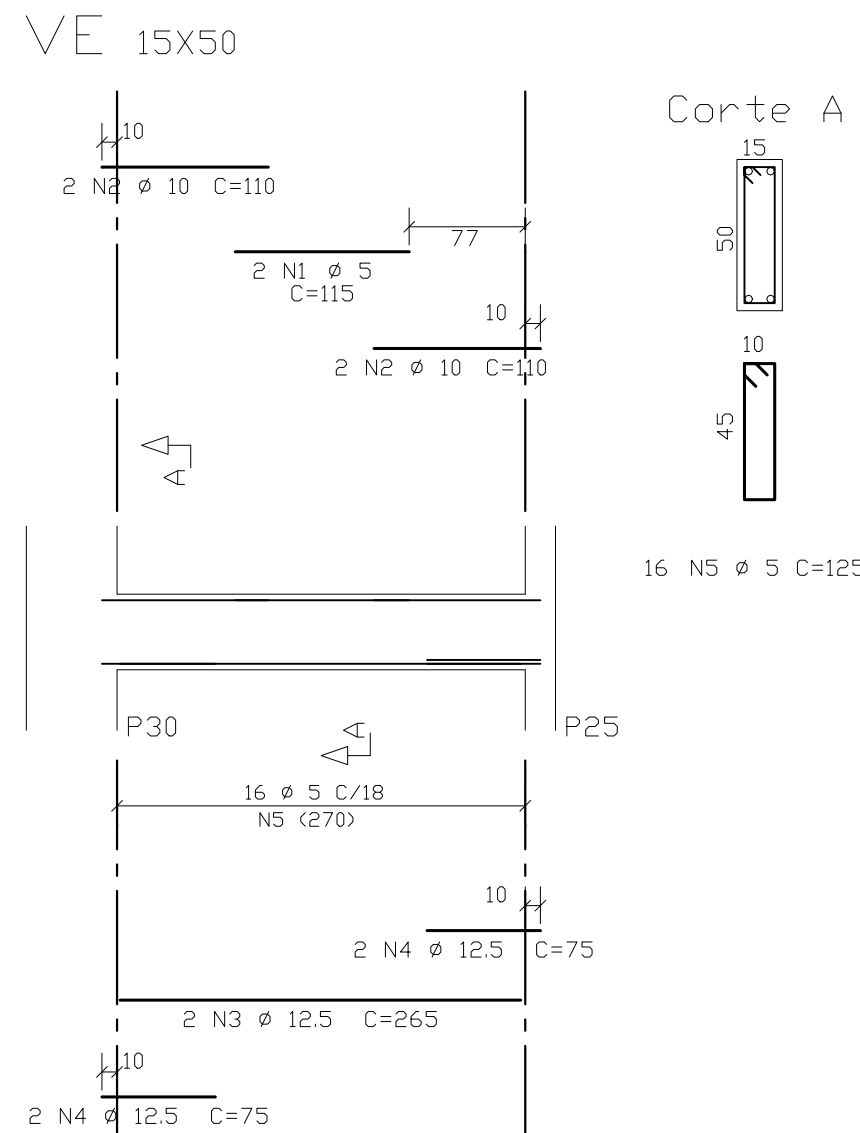
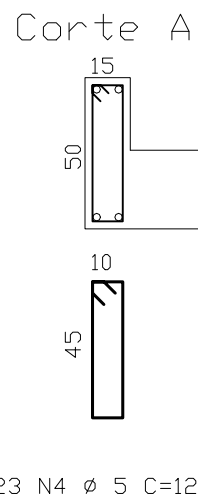
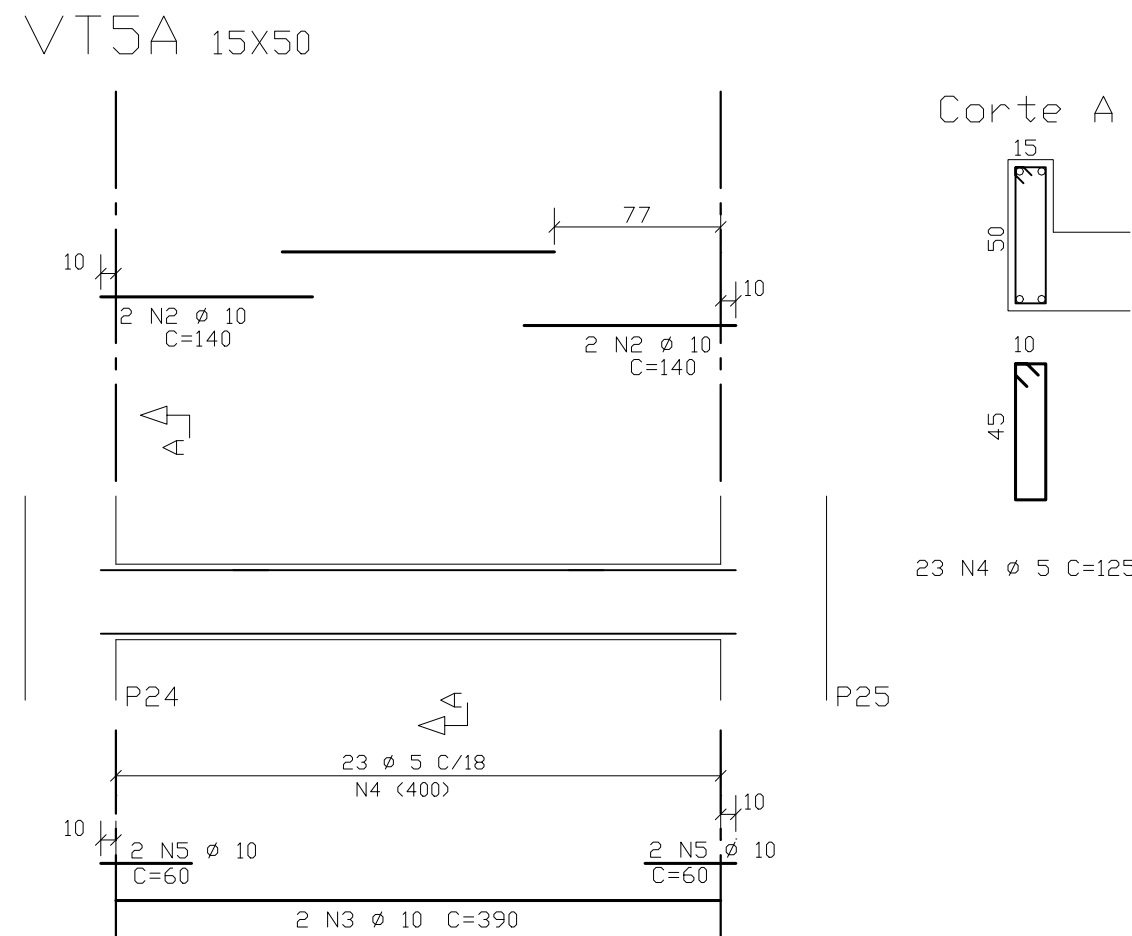
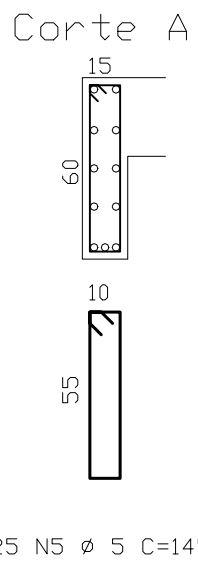
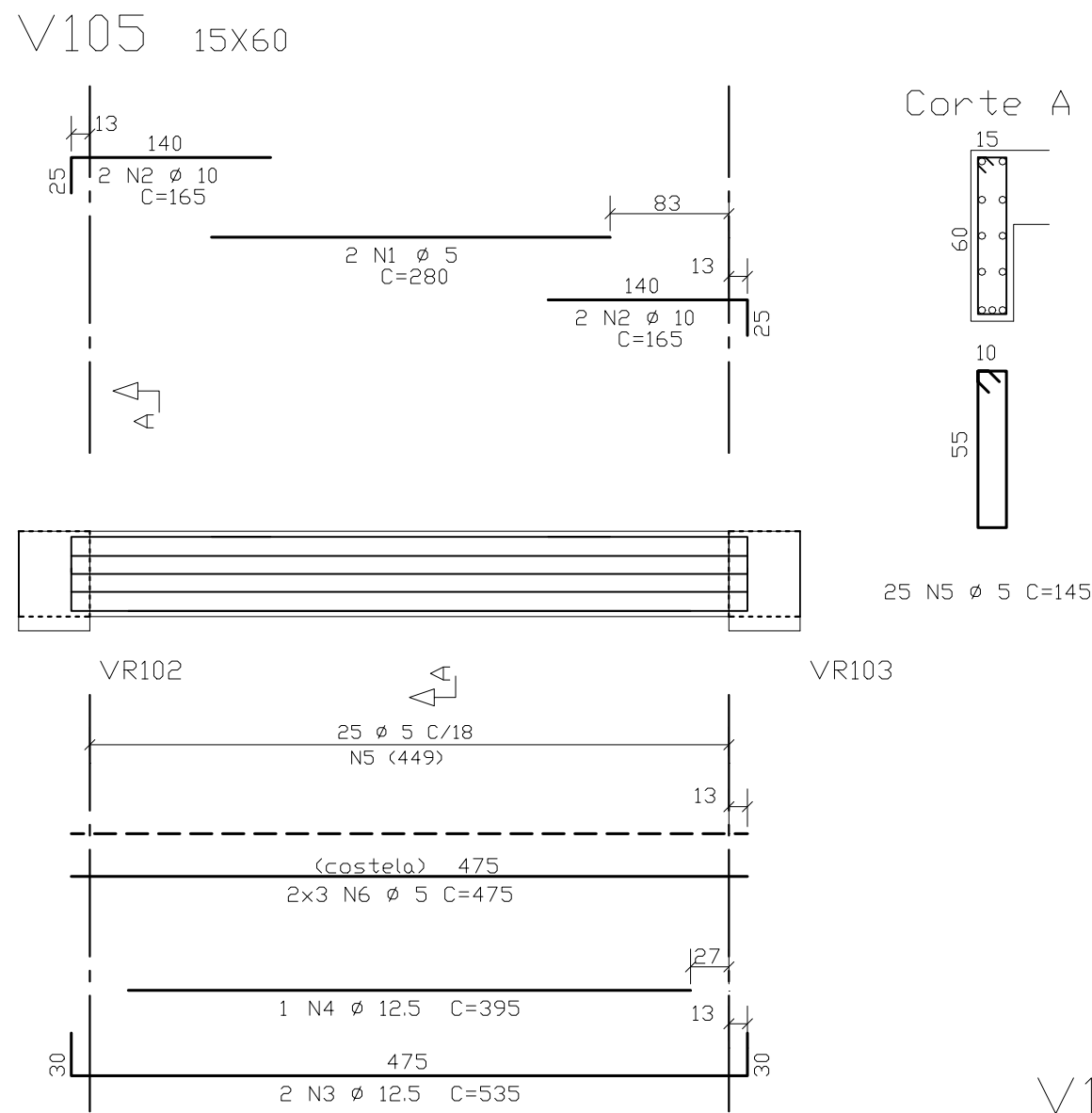
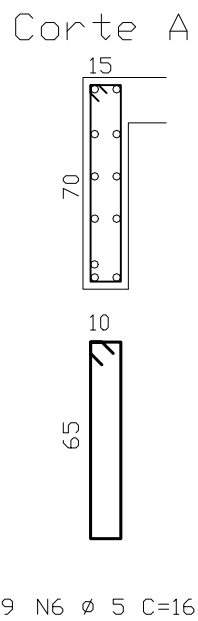
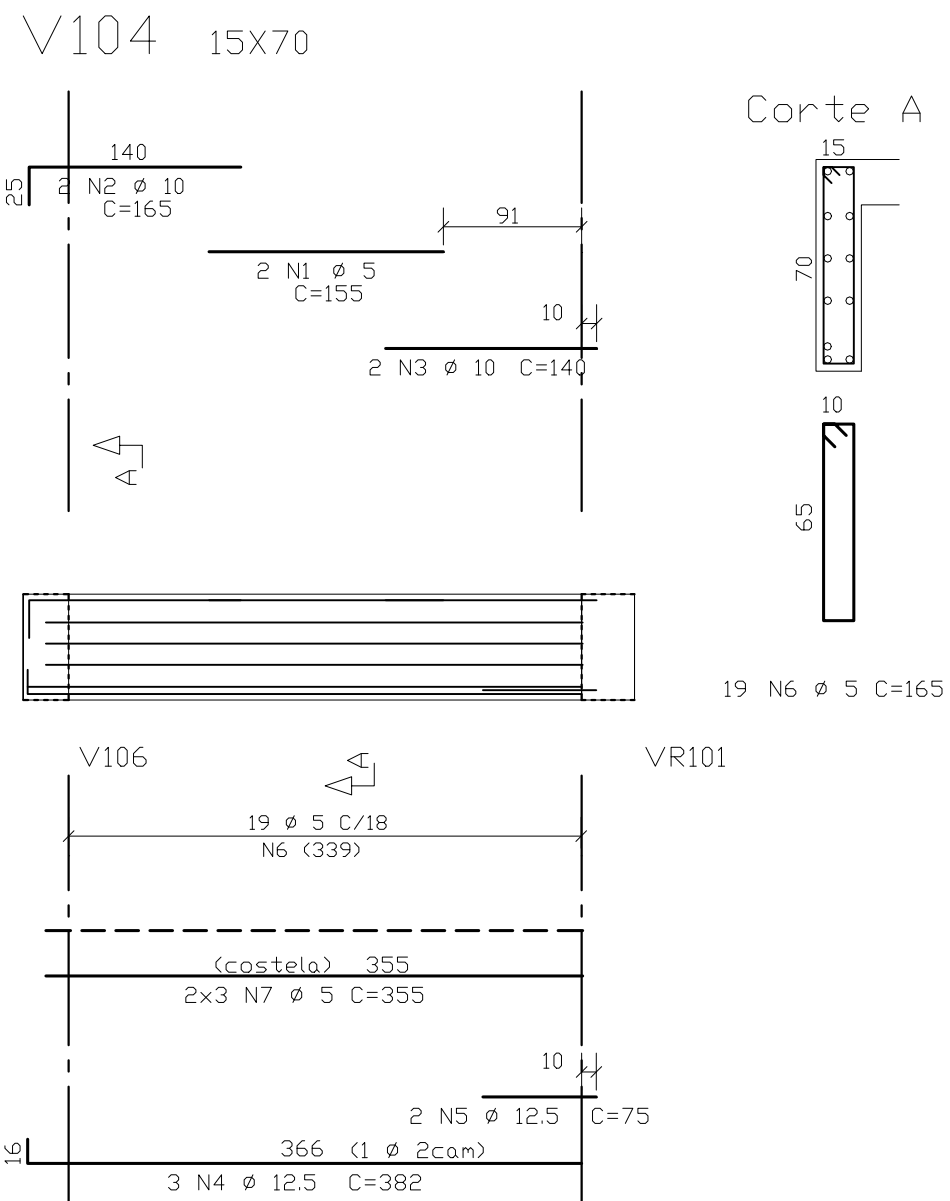
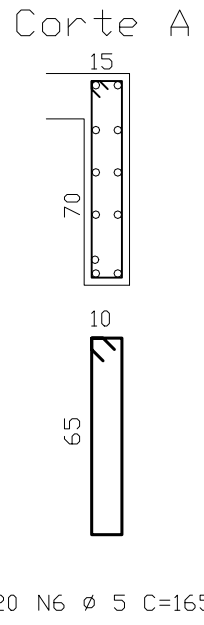
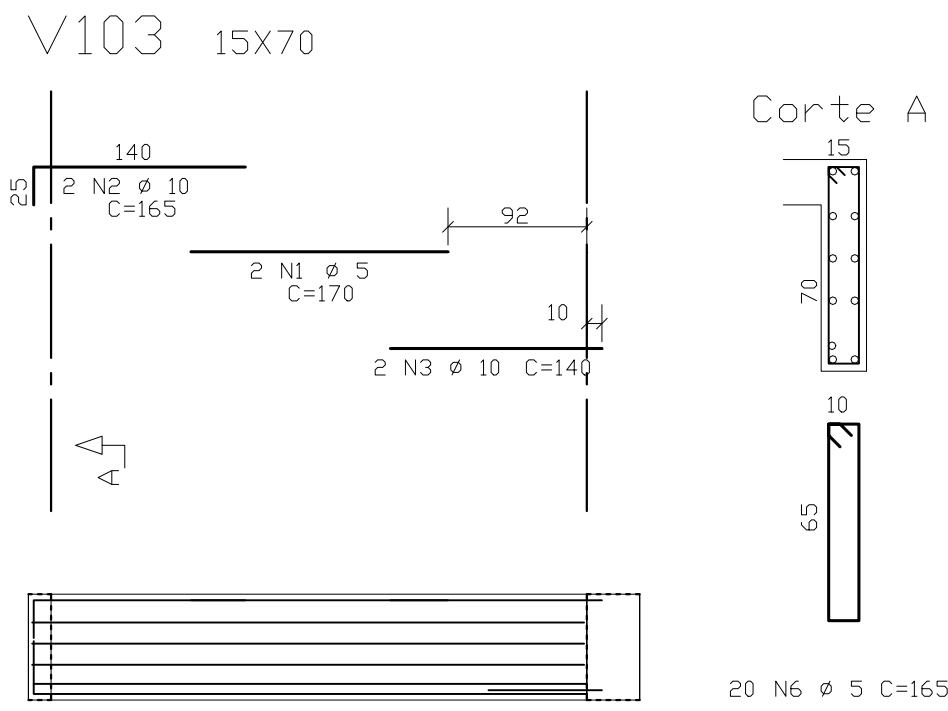
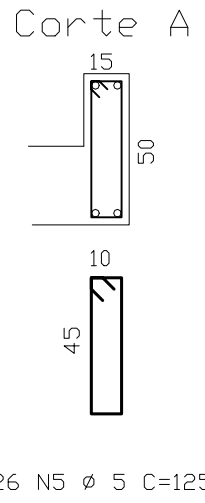
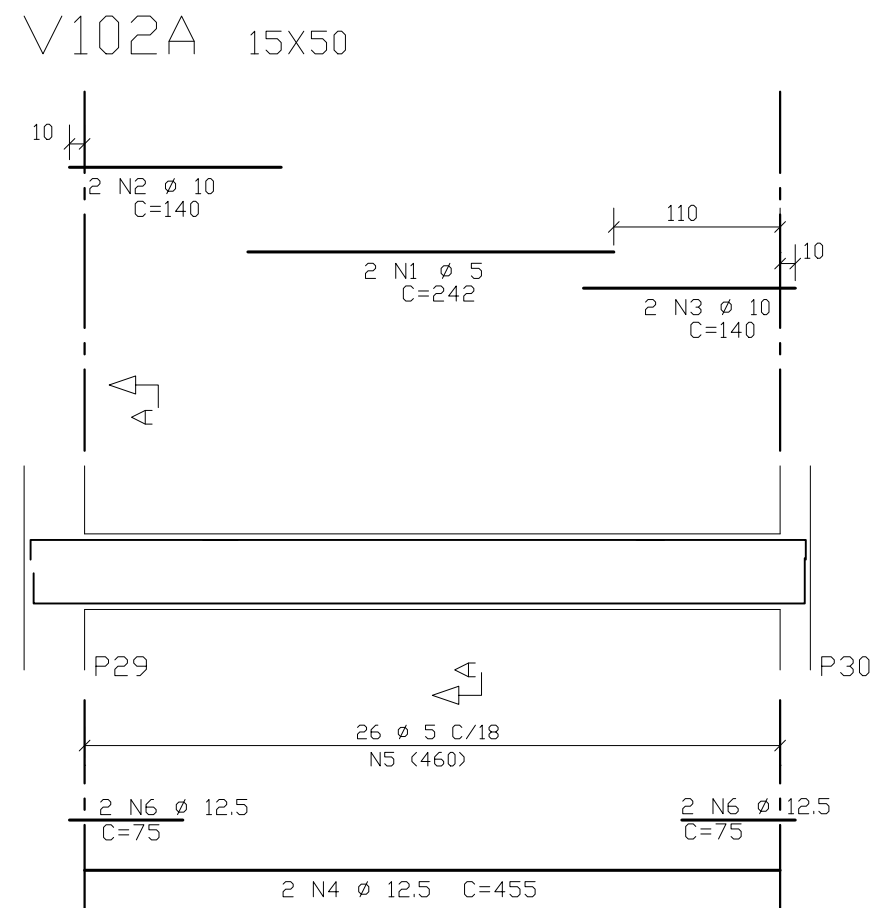
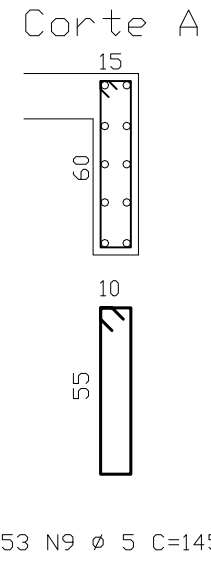
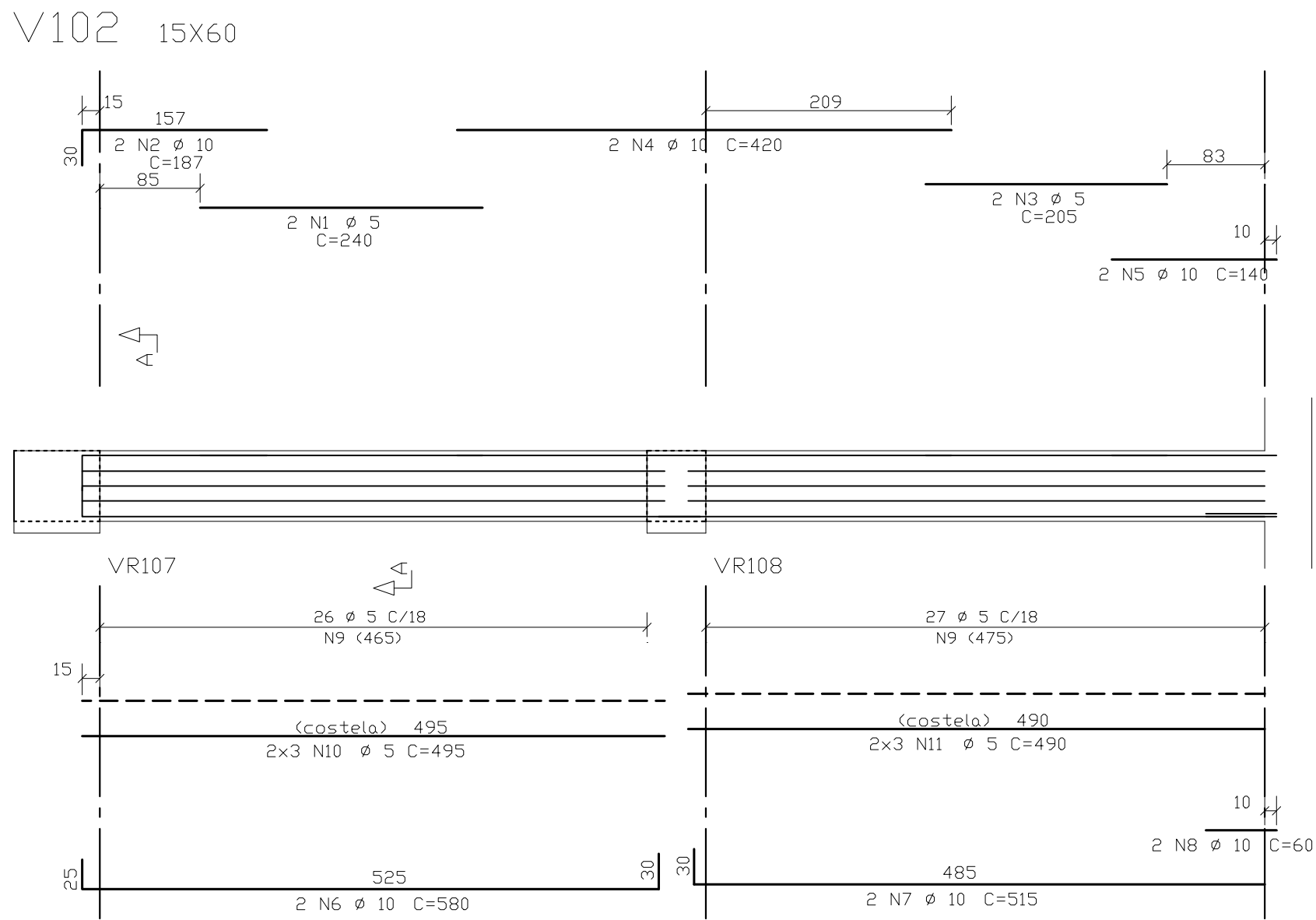
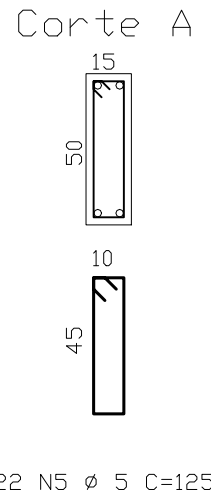
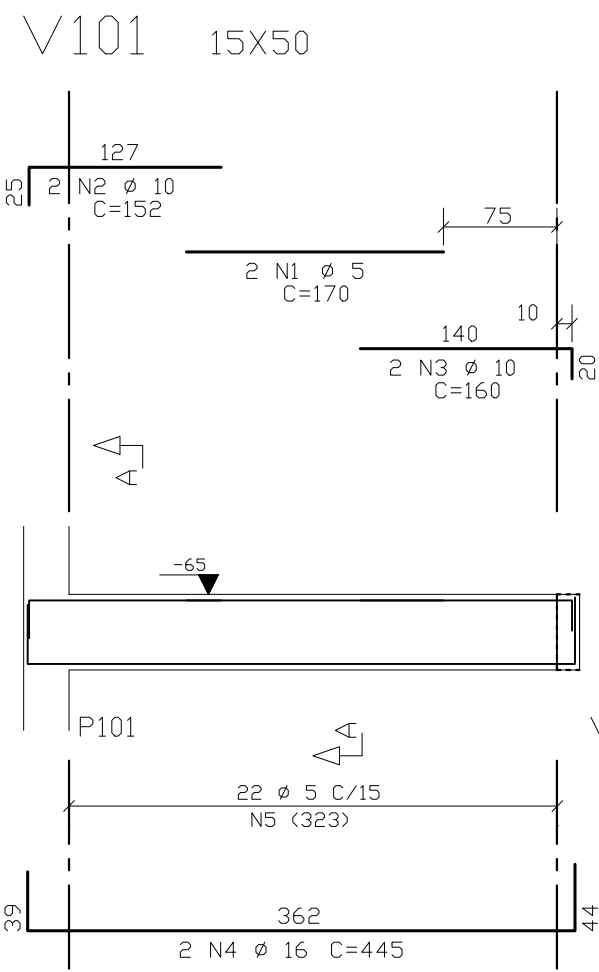
RESUMO ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
50A	6,3	788	197
50A	8	199	80
50A	10	446	281
50A	12,5	464	464
Peso Total		50A =	1022 kg

CONCRETO
f_{ck} ≥ 30 MPa

DOCUMENTOS DE REFERÊNCIA:
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-
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EST-0004



PROCEDIMENTOS:

1. INSERÇÃO DAS BARRAS NA ESTRUTURA EXISTENTE.
- A. EXECUTAR FURTO COM BRIDA DE DIÂMETRO IMEDIATAMENTE SUPERIOR AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;



Ø BARRA (mm)	Ø FURTO (mm)
8mm	10mm
10mm	12.5mm
12.5mm	16mm
16mm	20mm
20mm	25mm

- B. LIMPAR E PREENCHER OS FURDOS COM ADESIVO ESTRUTURAL À BASE DE EPOXI (SIKADUR-32 OU SIMILAR);
- C. INTRODUIZIR AS BARRAS NOS FURDOS E CONCRETAR A PEÇA COM CONCRETO DE fck > 30 MPa.
- D. AO APICAR E PERFURAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.
- E. AS DOBRAS DAS EXTREMIDADES DOS ESTRIBOS DEVERÃO SER DOBRADAS APÓS A MONTAGEM.

CONCRETO
fck ≥ 30 MPa

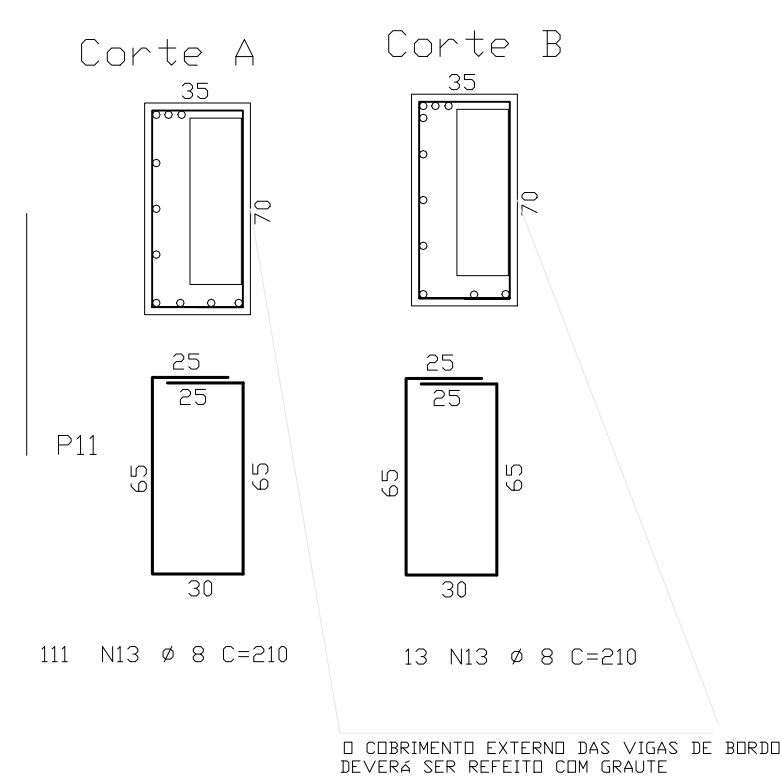
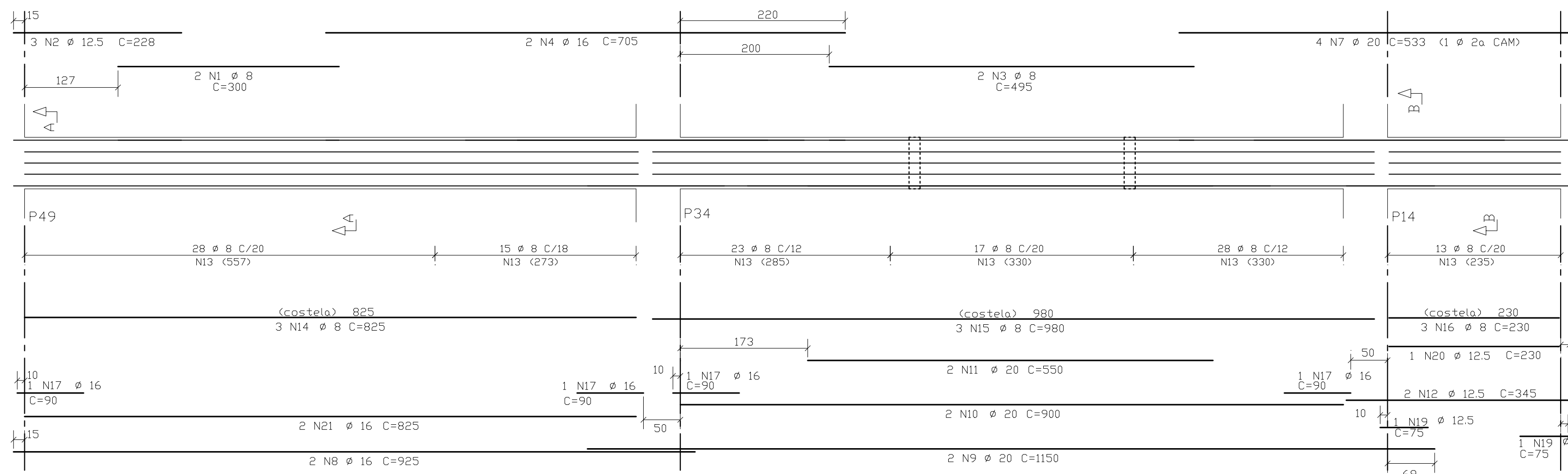
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R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

DOCUMENTOS DE REFERÊNCIA:				
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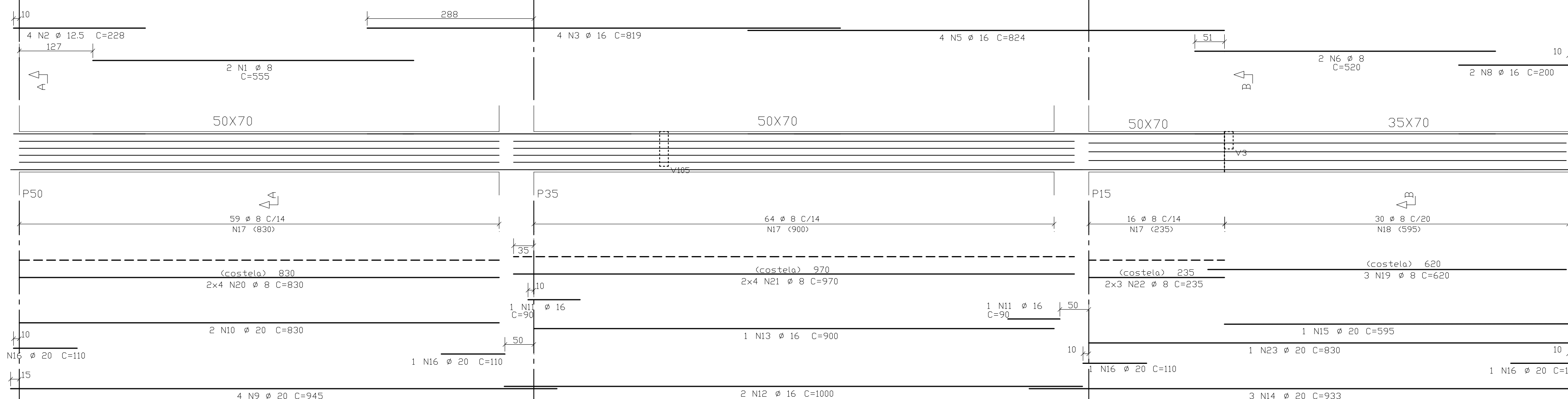
 <small>R. Central do Açúcar, s/nº CEP: 01051-000 Ribeirão Preto - SP</small>	Nº DO CONTRATO 031/2019-COGIC			FISCAL DE CONTRATO TAMIREZ PAZ	
	PROCESSO 25389.000/189/2017-19				
 FIOCRUZ Fundação Oswaldo Cruz	COORDENADOR DA META MARLY ZIED		NOME DO ARQUIVO DWG 30000393-03-OS8-C00-EST-DE-1005-R01.DWG		
	NOME DO PRÉDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA				
Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras		Nº PRECIO 602	CAMPUS RONDÔNIA	SETOR EDIFICAÇÃO	EST-0005
OBJETIVO CONSTRUÇÃO		Nº DA META 2017.027	O.E. / O.R. NOME DO ARQUIVO SIENGE		
TIPO DE PROJETO (SUBTIPO DE PROJETO) ESTRUTURA DE CONCRETO		FASE PROJETO EXECUTIVO			
TÍTULO DA PRANCHA ARM VIGAS NOVAS 403		DATA NOVEMBRO/2020			
		ESCALA INDICADA			
COORDENADOR ALEXANDRE LANDIM		RESPONSÁVEL TÉCNICO AMÉRICO FARIAS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	
EQUIPE ARCHITECTUS					

EST-0005

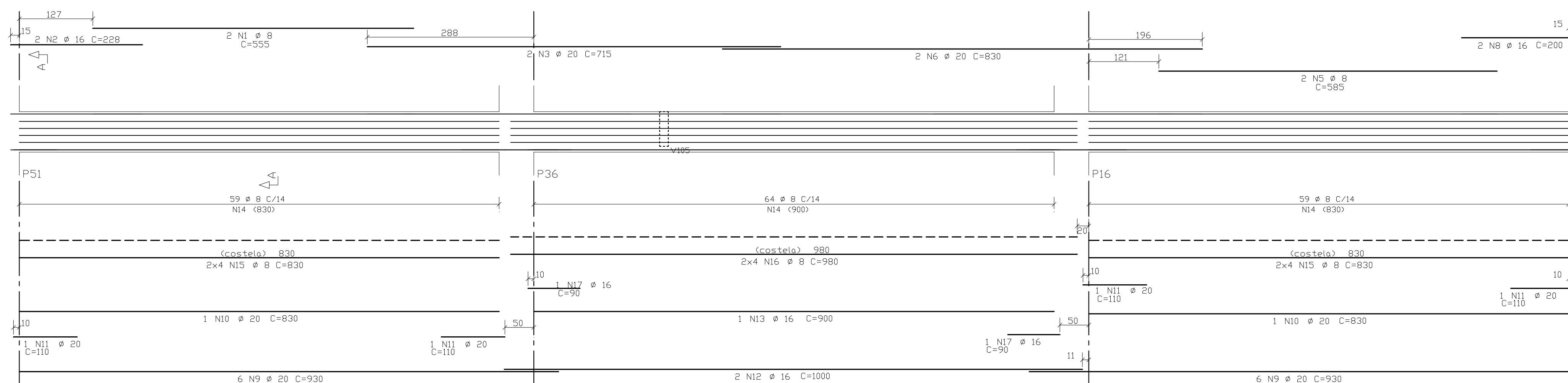
VR101 35x70



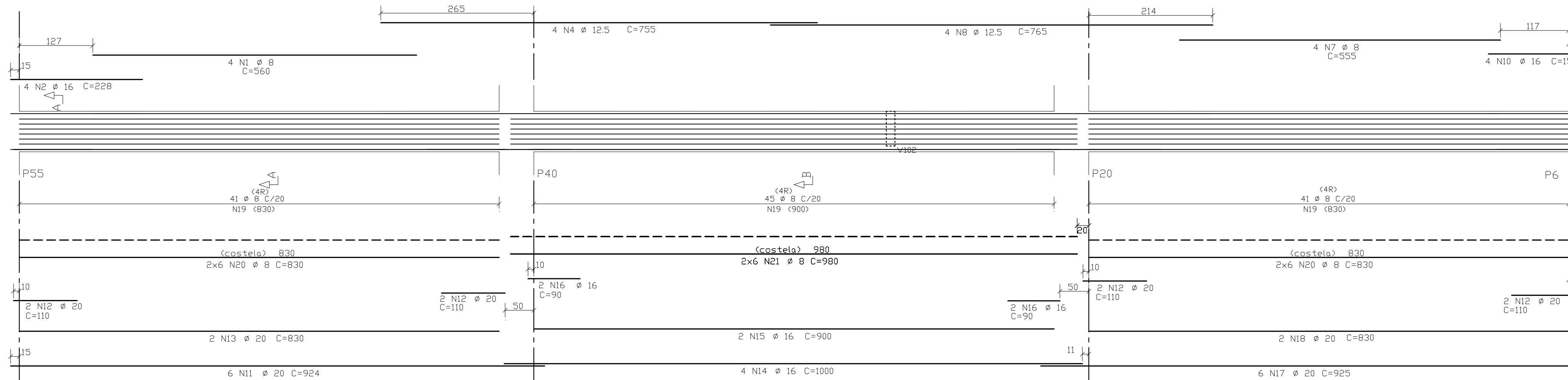
VR102



VR103=VR104=VR105=VR106 50x70

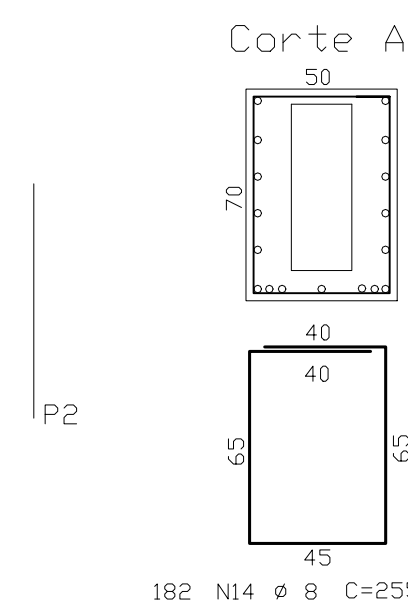
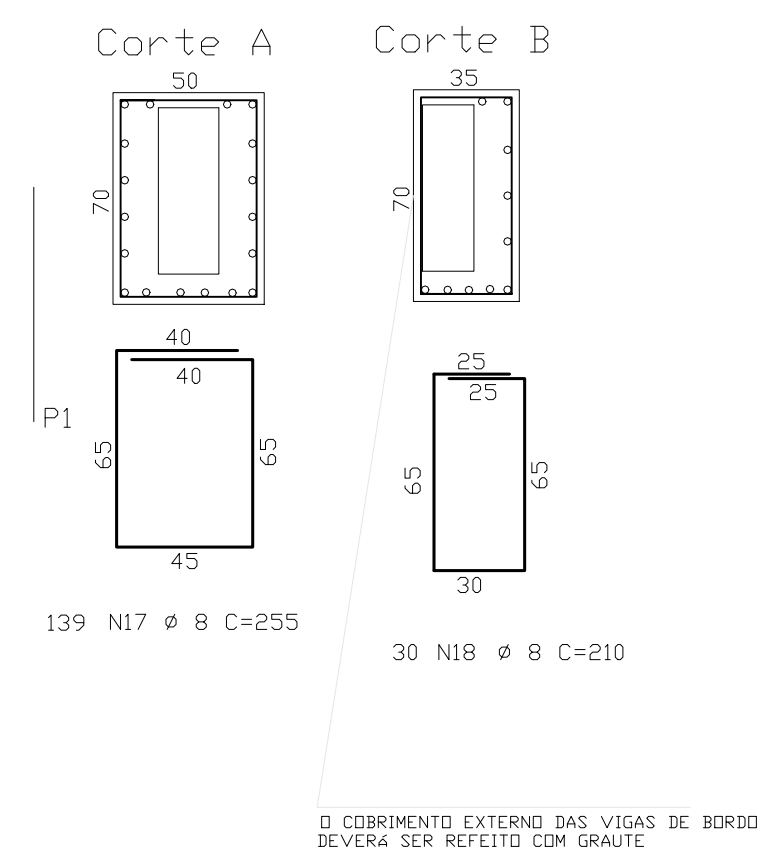


VR107 73X70



PROCEDIMENTOS:

1. INSERÇÃO DAS BARRAS NA ESTRUTURA EXISTENTE.
- A. EXECUTAR FURTO COM BROCA DE DIÂMETRO IMEDIATAMENTE SUPERIOR AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;
- | Ø BARRA (mm) | Ø FURTO (mm) |
|--------------|--------------|
| 8mm | 10mm |
| 10mm | 12,5mm |
| 12,5mm | 16mm |
| 16mm | 20mm |
| 20mm | 25mm |
- B. LIMPAR E PREENCHER OS FURTO COM ADESIVO ESTRUTURAL À BASE DE EPOXI (SIKADUR-32 OU SIMILAR);
- C. INTRODUZIR AS BARRAS NOS FURTO E CONCRETAR A PEÇA COM CONCRETO DE $f_{ck} > 30$ MPa.
- D. AO APLICAR E PERFURAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.
- E. AS DOBRAS DAS EXTREMIDADES DOS ESTRIÇOS DEVERÃO SER DOBRADAS APÓS A MONTAGEM.



CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

ELEMENTO	PDS	BIT (nn)	QUANT	COMPRIM. UNIT.
VR101	1	8	2	300
	2	12,5	3	228
	3	16	4	495
	4	16	4	705
	7	20	4	533
	8	16	2	925
	9	20	2	1150
	10	20	2	900
	11	20	2	550
	12	12,5	2	345
	13	8	124	210
	14	8	3	825
	15	8	3	900
	16	8	3	230
	17	16	4	90
	19	12,5	1	75
	20	12,5	1	230
	21	16	2	825
VR102	1	8	2	555
	2	12,5	4	228
	3	16	4	619
	4	16	4	824
	6	8	2	520
	8	16	2	200
	9	20	4	945
	10	20	2	830
	11	16	2	90
	12	16	2	1000
	13	16	1	900
	14	20	3	933
	15	20	3	595
	16	20	4	110
	17	8	139	255
	18	8	30	210
	19	8	30	620
	20	8	8	830
	21	8	8	970
	22	8	6	235
	23	20	1	830
VR103=VR104=VR105=VR106 (x4)				
	1	8	8	555
	2	16	8	228
	3	20	8	715
	4	8	8	585
	6	20	8	830
	8	16	8	200
	9	20	48	930
	10	20	8	830
	11	20	16	110
	12	16	8	1000
	13	16	4	900
	14	8	728	255
	15	8	64	830
	16	8	32	980
	17	16	8	90
VR107	1	8	4	560
	2	16	4	228
	4	12,5	4	755
	7	8	4	555
	8	12,5	4	765
	10	16	4	150
	11	20	6	924
	12	20	8	110
	13	20	2	830
	14	16	4	1000
	15	16	2	900
	16	16	2	90
	17	20	6	925
	18	20	2	830
	19	8	254	286
	20	8	24	830
	21	8	48	980

RESUMU ACO CA 50-60			
ACO	BIT	COMPR	PESO
	(mm)	(m)	(kg)
50A	8	5186	2074
50A	12.5	87	87
50A	16	387	620
50A	20	981	2453
Peso Total		50A =	5235 kg

R00	EMIÇÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

DOCUMENTOS DE REFERÊNCIA:

-
-
-
-
-
-

 <p>ARCHITECTUS Engenharia e Arquitetura</p> <p>R. Camilo de Aguiar, n° 1403 Bairro São José - Jd. Santa Helena Bom Jardim - RJ 24.240-000 telefone:(21) 2442-0000 contato: contato@architctus.com.br</p>	Nº DO CONTRATO 031/2019-COGIC
	PROCESSO 25389.000189/2017-19
	CORRENADOR DA META MARLY ZIED
	FISCAL DE CONTRATO TAMIRES PAZ
NOME DO ARQUIVO GED 0000393-03-OS8-C00-EST-DE-1006-R01.DWG	
 Ministério da Saúde FIOCRUZ <i>Fundação Oswaldo Cruz</i>	NOME DO PRÉDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA
Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras	Nº PRÉDIO 602
OBJETIVO CONSTRUÇÃO	CAMPUS RONDÔNIA
Nº DA META 2017.027	SETOR EDIFICAÇÃO
TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO	O.E. / O.R. NOME DO ARQUIVO SIENGE
FASE PROJETO EXECUTIVO	
TÍTULO DA PRANCHA ARM.VIGAS REFORCADAS 01-02 NIVEL 403	DATA NOVEMBRO/2020
ESCALA INDICADA	
COORDENADOR ALEXANDER LANDIM	RESPONSÁVEL TÉCNICO AMÉRICO FARIAS
CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	
EQUIPE ARCHITECTUS	

EST-0006

EST-0006

[illegible][illegible][illegible]

Technical drawing of a building facade with dimensions and annotations. The drawing includes a section line A-A and a section line P22. Dimensions are given in meters (m) and centimeters (cm). The drawing shows a facade with a total width of 12.4m and a total height of 15m. The facade is divided into three main sections: a left section with a width of 4m, a middle section with a width of 4m, and a right section with a width of 4m. The left section contains a window with a width of 12.5m and a height of 205cm. The middle section contains a window with a width of 8m and a height of 580cm. The right section contains a window with a width of 12.5m and a height of 161cm. The drawing also shows a section line A-A and a section line P22. The section line A-A is located at the top of the drawing, and the section line P22 is located at the bottom of the drawing. The drawing includes a scale bar and a north arrow.

15

4 N2 ϕ 12.5 C=205

12.4

4 N1 ϕ 8 C=580

15

4 N3 ϕ 12.5 C=161

A

P22

4R 13 ϕ 8 C/22 N6 (277)

4R 12 ϕ 8 C/25 N6 (276)

4R 13 ϕ 8 C/22 N6 (277)

(costela) 825

2x4 N7 ϕ 8 C=825

20

10

1 N8 ϕ 25 C=160

1 N5 ϕ 25 C=790

1 N8 ϕ 25 C=160

15

6 N4 ϕ 25 C=860

Technical drawing of a building facade with dimensions and labels. The drawing is divided into several sections by horizontal and vertical lines.

Top Section:

- Left side: $2\ N2\ \varnothing\ 16\ C=475$
- Right side: $2\ N4\ \varnothing\ 16\ C=160$
- Bottom right: $2\ N1\ \varnothing\ 8\ C=290$
- Dimension: 126
- Top right corner: 15

Middle Section:

- Left side: P24, $17\ \varnothing\ 8\ C/14\ N9\ (243)$
- Right side: P13, $39\ \varnothing\ 8\ C/14\ N9\ (547)$
- Bottom left: $\langle costela \rangle\ P67\ 2 \times 4\ N10\ \varnothing\ 8\ C=267$
- Bottom right: $\langle costela \rangle\ P71\ 2 \times 4\ N11\ \varnothing\ 8\ C=571$

Bottom Section:

- Left side: $1\ N8\ \varnothing\ 20\ C=110$
- Right side: $1\ N8\ \varnothing\ 20\ C=110$
- Bottom left: $4\ N5\ \varnothing\ 12.5\ C=303$
- Bottom right: $2\ N6\ \varnothing\ 20\ C=644$
- Dimensions: 10, 10, 15

Technical drawing showing a cross-section of a mechanical assembly. The drawing includes the following components and dimensions:

- Top Section:**
 - Dimension: 10
 - Component: 2 N2 \varnothing 12.5 C=160
 - Component: 2 N9 \varnothing 12.5 C=150
 - Component: 2 N1 \varnothing 8 C=580
 - Component: 1 N3 \varnothing 12.5 C=160
 - Dimension: 123
 - Dimension: 10
- Middle Section:**
 - Component: P25
 - Component: 42 \varnothing 8 C/20 N7 (830)
 - Dimension: 830 (costole)
 - Component: 3 N8 \varnothing 8 C=830
 - Component: 2 N6 \varnothing 20 C=635
 - Dimension: 90
- Bottom Section:**
 - Dimension: 10
 - Component: 2 N4 \varnothing 20 C=825
 - Component: 2 N5 \varnothing 20 C=810
 - Component: 2 N3 \varnothing 20 C=110

Corte A

50

70

30

30

65

65

35

76 N6 Ø 8 C=25

Corte A

The drawing shows a rectangular plate with a central rectangular hole. A vertical section line labeled 'P-P' is on the left. Dimensions are: outer width 50, outer height 70, inner width 40, and inner height 40. There are small circles at the corners of the outer rectangle, likely representing rivets or fasteners. Below the plate, there are additional dimensions: 40, 40, 65, 65, 45, and a note '56 N9 Ø 8 C=55'.

50

70

P-P

40

40

65

65

45

56 N9 Ø 8
C=55

RESUMO AÇO CA 50-60			
AÇO	BIT	COMPR	PESO
	(mm)	(m)	(kg)
50A	8	1315	526
50A	12,5	106	106
50A	16	99	158
50A	20	169	421
50A	25	63	251
Peso Total		50A =	1462 kg

CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

DOCUMENTOS DE REFERÊNCIA:
-
-
-
-
-

EST-0007

(esc.1:100)



1. INSERÇÃO DAS BARRAS NA ESTRUTURA EXISTENTE.
A. EXECUTAR FURO COM BROCA DE DIÂMETRO IMEDIATAMENTE SUPERIOR
AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;

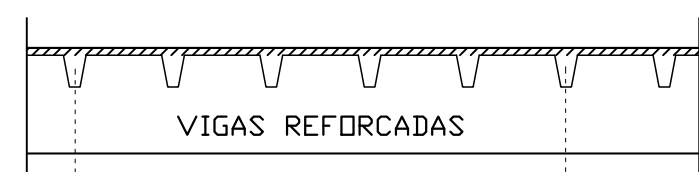
Ø BARRA (mm)	Ø FURD (mm)
8mm	10mm
10mm	12.5mm
12.5mm	16mm
16mm	20mm
20mm	25mm

- B. LIMPAR E PREENCHER OS FURDS COM ADESIVO ESTRUTURAL A BASE DE EPOXI (SIKADUR-32 OU SIMILAR);
- C. INTRODUIZIR AS BARRAS NOS FURDS E CONCRETAR A PEÇA COM CONCRETO DE $f_{ck} \geq 30$ MPa.
- D. AO APICAR E PERFORAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.
- E. AS DOBRAS DAS EXTREMIDADES DOS ESTRIBOS DEVERÃO SER DOBRADAS APÓS A MONTAGEM.

CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

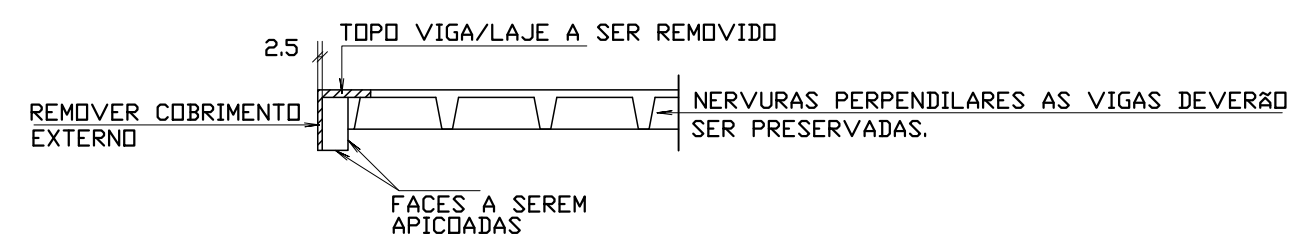
-E NECESSARIO ESCORAR CONVENIENTEMENTE OS TRECHOS DA ESTRUTURA ADJACENTES A REGIÃO QUE SERÁ DEMOLIDA.

-AS MESAS DAS LAJES NERVURADAS E TOPO DAS NERVURAS DEVERÃO SER REMOVIDAS NAS REGIÕES HACHURADAS EM PLANTA



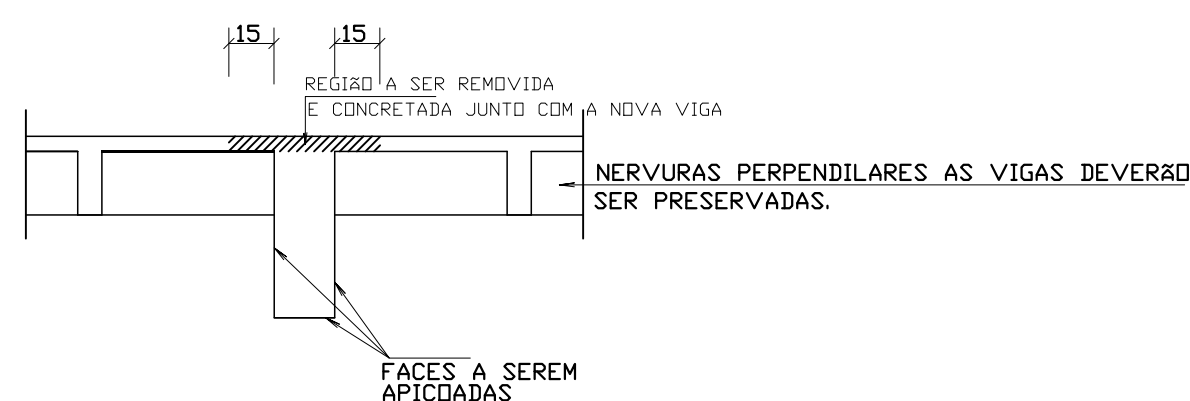
NERVURAS PERPENDILARES AS VIGAS A SEREM
REFORÇADAS DEVERÃO SER PRESERVADAS.

-AS VIGAS EXTERNAS A REFORCAR DEVERÃO RECEBER OS SEGUINTE PROCEDIMENTOS.



TODAS AS ARMADURAS DAS VIGAS EXISTENTES DEVERÃO SER PRESERVADAS

-OS ELEMENTOS SOMBREADOS DEVERAO SER DEMOLIDOS




TODAS AS ARMADURAS DAS LAJES A SEREM DEMOLIDADES DEVERÃO SER ELIMINADAS ATE A VIGA EXISTENTE

R00	EMIÇÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

DOCUMENTOS DE REFERÊNCIA:

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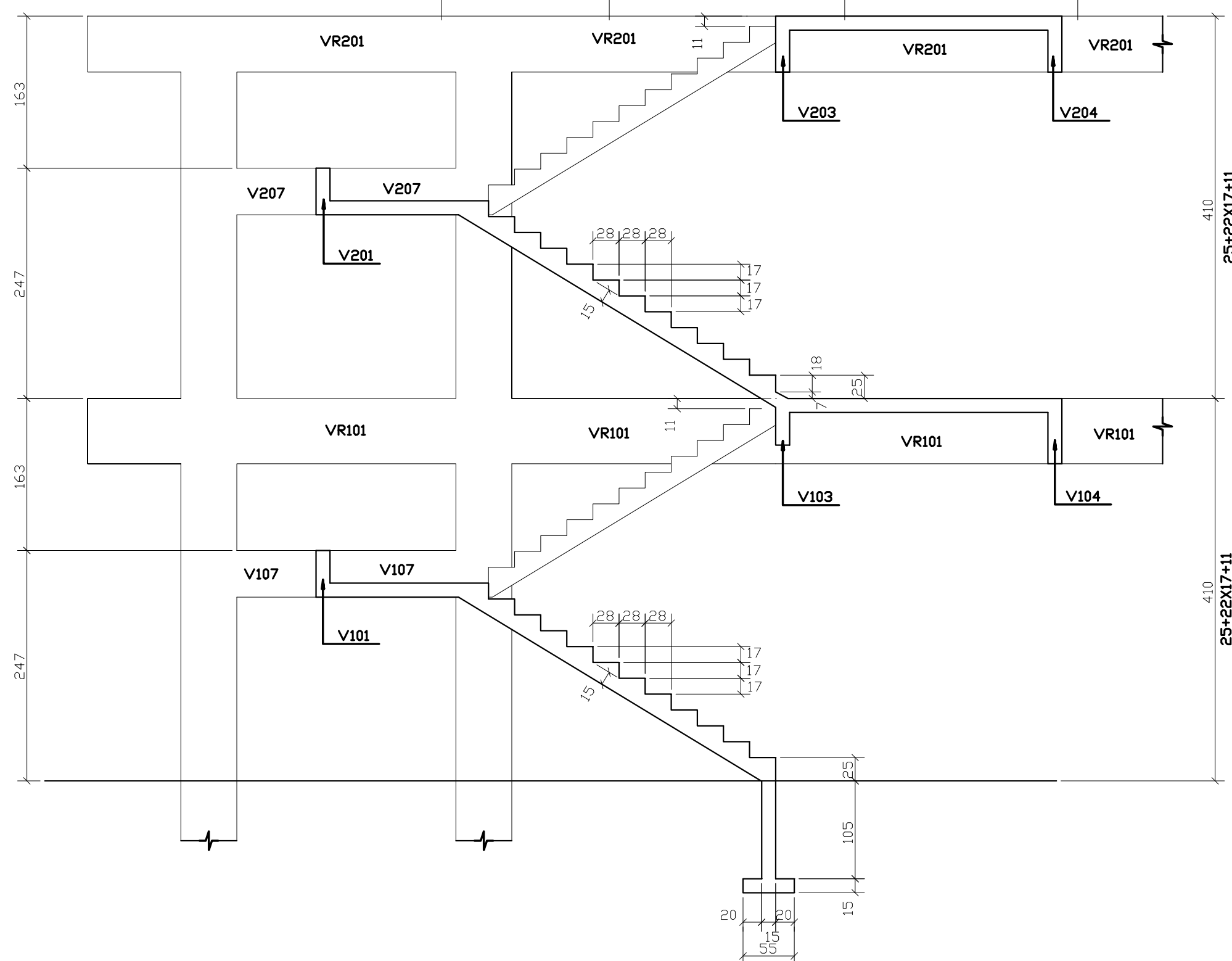
		Nº DO CONTRATO 031/2019-COGIC	
PROCESSO 25389.000189/2017-19		COORDENADOR DA META MARLY ZIED	
NOME DO ARQUIVO GED 30003393-03-OSB-C00-EST-DE-1008-R01.DWG		FISCAL DO CONTRATO TAMIRES PAZ	
NOME DO PREDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA			
Nº PREDIO 602		CAMPUS RONDÔNIA	
O.E. / O.R.		SETOR EDIFICAÇÃO	
OBJETIVO CONSTRUÇÃO		Nº DA META 2017.027	
TÍTULO DA PRANCHIA FORMA DEMOLIÇÃO NÍVEL 813			
TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO		FASE PROJETO EXECUTIVO	
COORDENADOR ALEXANDER LAMIM		RESPONSÁVEL TÉCNICO AMÉRICO FARIAS	
EQUIPE ARCHITECTUS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	
DATA NOVEMBRO/2020		ESCALA INDICADA	

8000


(esc.1:100)



CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$



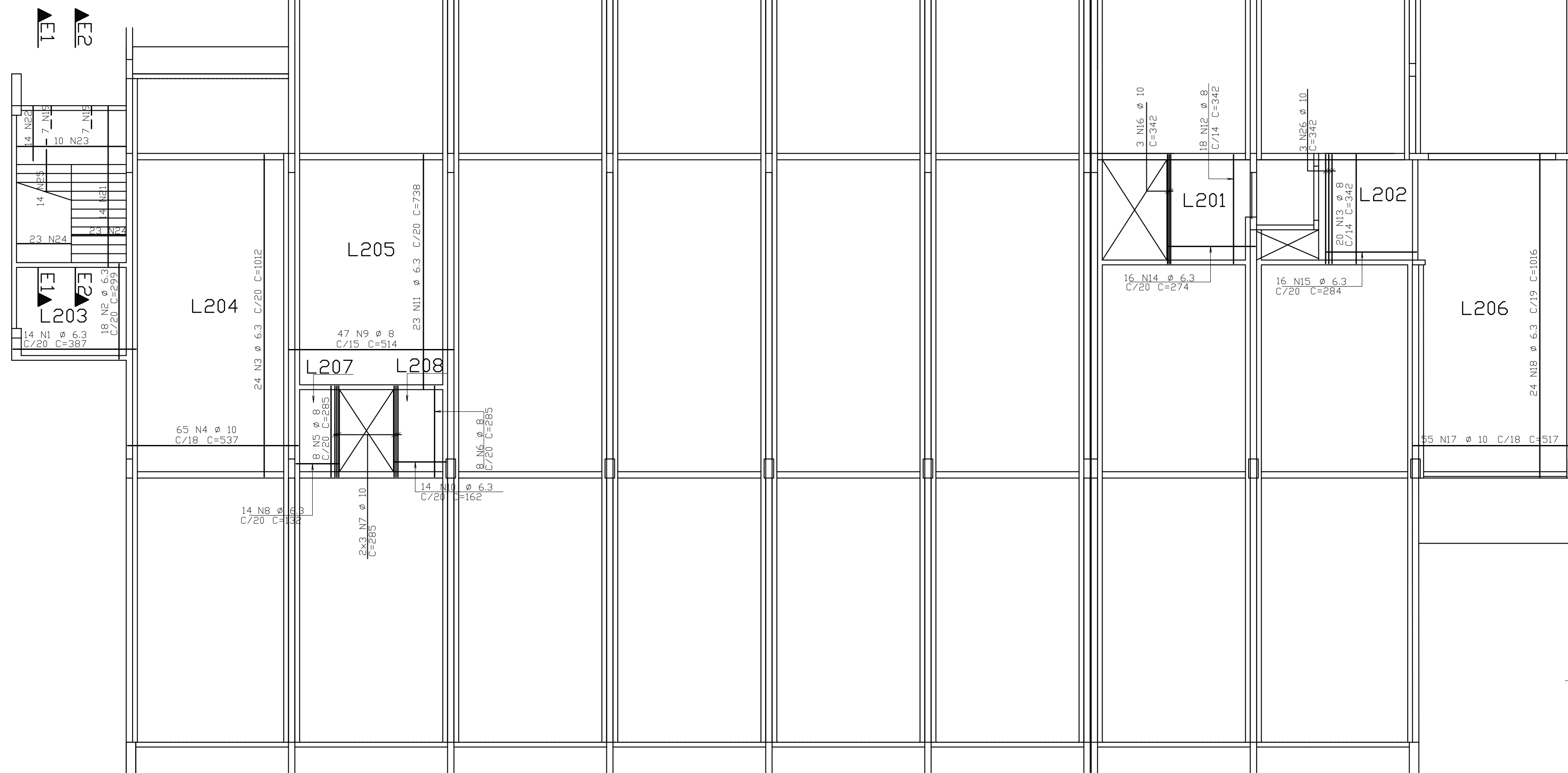
DOCUMENTOS DE REFERÊNCIA:	
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		Nº DO CONTRATO 031/2017-COGIC	
R. Carlos de Aguiar n.º 401 - 1.º andar - Jd. Jangadeiro - São Paulo - SP 05066-000 Fone: (11) 3066-0000 E-mail: contato@arquitectus.com.br		PROCEBRO 253589.000189/2017-19	
COORDENADOR DA MESA MARLY ZIED		FISCAL DE CONTRATO TAMIREIS PAZ	
NOME DO ARQUIVO DWG 30000393-03-OS8-C00-EST-DE-1009-R01.DWG			
NOME DO PRÉDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA			
Nº PRÉDIO 602		CAMPUS RONDÔNIA	
O.E. / O.R.		SETOR EDIFICAÇÃO	
OBJETIVO CONSTRUÇÃO			
Nº DA META 2017.027		NOME DO ARQUIVO SIENGE	
TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO			
FASE PROJETO EXECUTIVO			
TÍTULO DA PRANCHIA FORMA NOVA NÍVEL 813		DATA NOVEMBRO/2020	
COORDENADOR ALEXANDRE LANDIM		ESCALA INDICADA	
RESPONSÁVEL TÉCNICO AMÉRICO FARIAS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	
EQUIPE ARQUITECTUS			

EST-0009

PRANCHA A1 - 840 x 593 mm

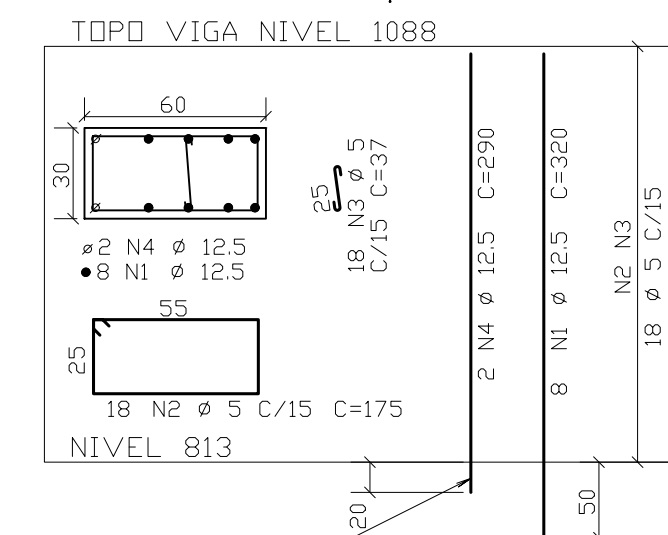
ARM.LAJES NIVEL 813
(esc.1:100)



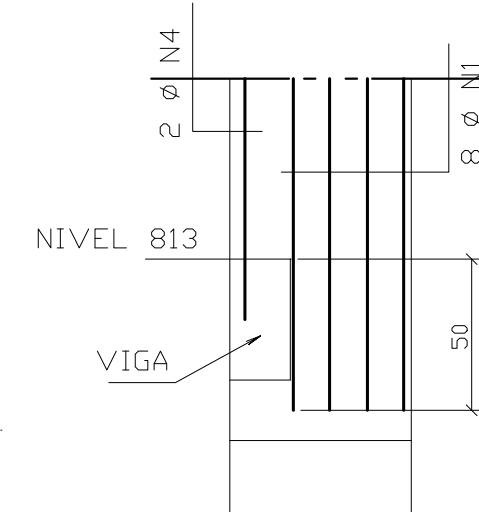
ELEMENTO	POS	BIT (nm)	QUANT	COMPRIM. UNIT.
ARM.LAJES	NIVEL	813		
	1	6,3	14	387
	2	6,3	18	359
	3	6,3	24	1012
	4	8	65	537
	5	8	8	285
	6	8	8	285
	7	10	6	285
	8	6,3	14	132
	9		47	514
	10	6,3	14	162
	11	6,3	23	738
	12	8	16	342
	13	8	20	342
	14	6,3	16	274
	15	6,3	16	284
	16	10	3	342
	17	10	55	517
	18	6,3	24	1016
	19	8	14	90
	20		7	105
	21	12,5	14	595
	22	12,5	14	233
	23	6,3	10	20
	24	6,3	48	168
	25	12,5	14	514
	26	16	3	342
P36 AD	P39,P42	P43	(X6)	
	1	12,5	48	320
	2	5	108	175
	3	5	37	7
	4	12,5	12	P90

RESUMO ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	229	37
50A	6.3	1010	252
50A	8	437	175
50A	10	671	423
50A	12.5	376	376
Peso Total		60B =	37 kg
Peso Total		50A =	1226 kg

P36 A□ P39,P42 E P43



DET.POSIÇÃO ARM

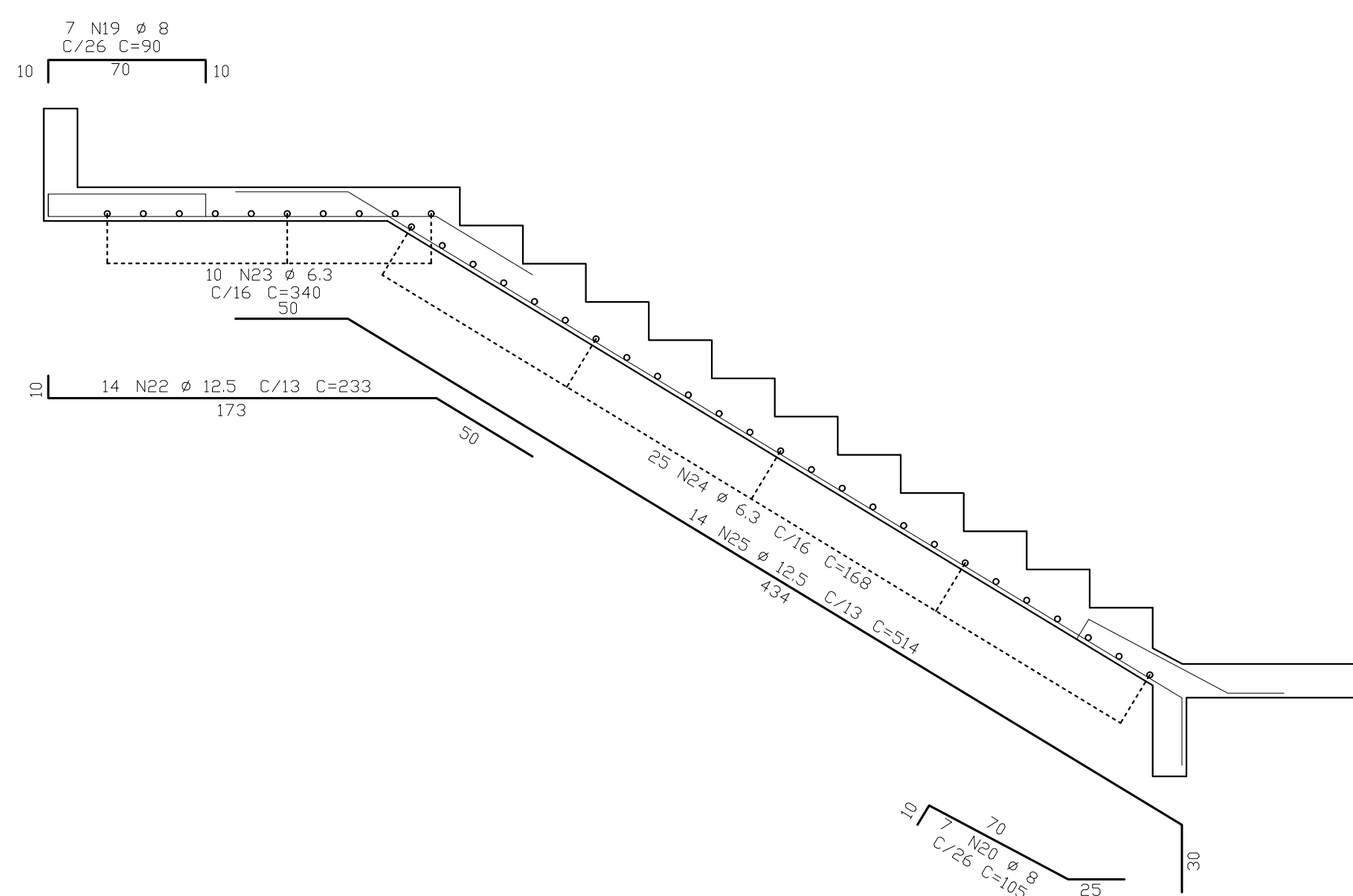
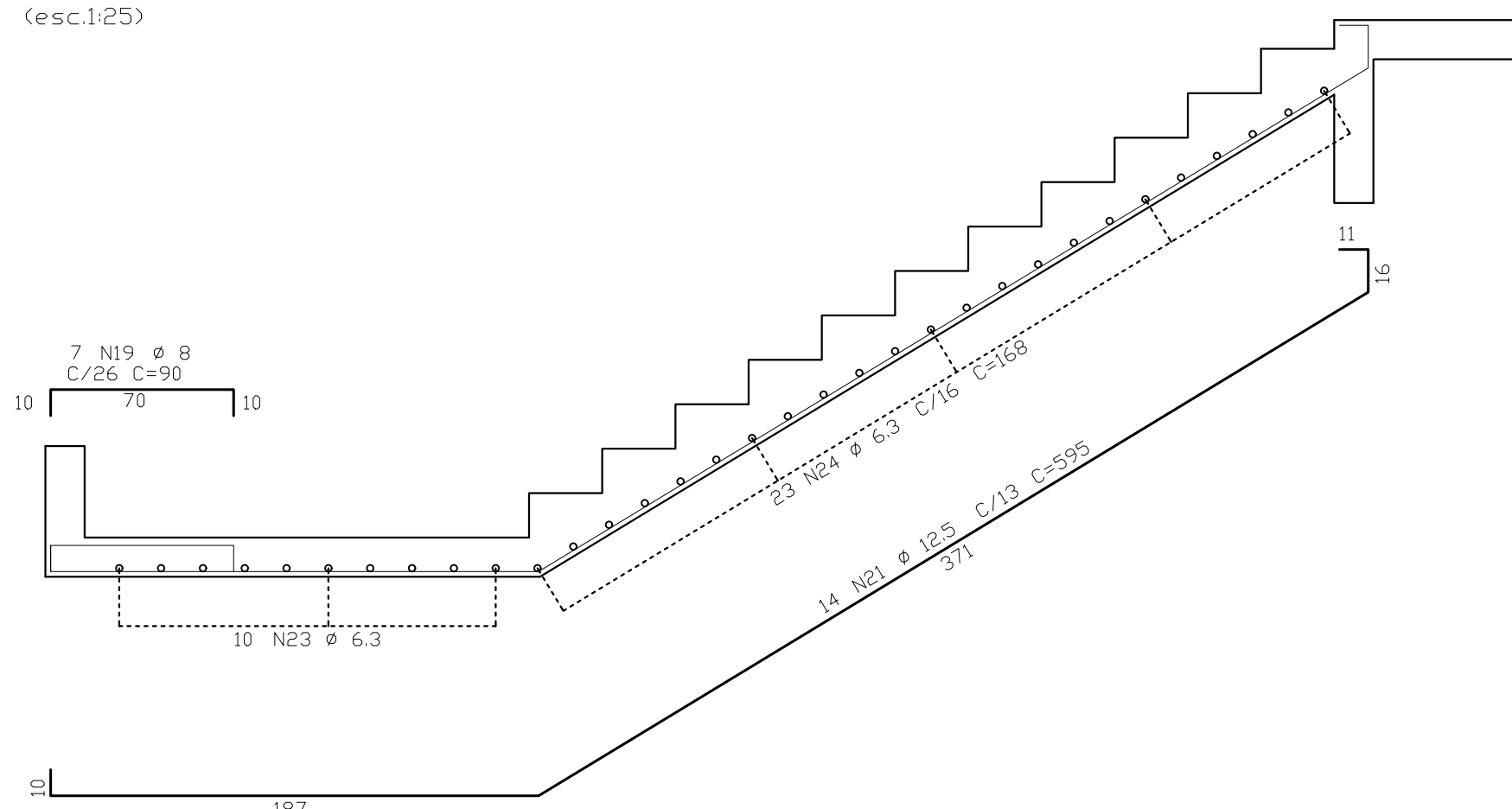


PROCEDIMENTOS:

- A. INSERÇÃO DAS BARRAS NA ESTRUTURA EXISTENTE.
- B. EXECUTAR FURTO COM BROCA DE DIÂMETRO IMEDIATAMENTE SUPERIOR AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;
- C. LIMPAR E PREENCHER OS FURDOS COM ADESIVO ESTRUTURAL À BASE DE EPOXI (SİKADUR-32 OU SIMILAR);
- D. INTRODUIZIR AS BARRAS NOS FURDOS E CONCRETAR A PEÇA COM CONCRETO DE $f_{ck} \geq 30$ MPa.
- E. AD. APLICAR E PERFURAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.


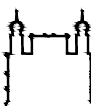
Ø BARRA (mm)	Ø FURO (mm)
8mm	10mm
10mm	12.5mm
12.5mm	16mm
16mm	20mm
20mm	25mm

CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

CORTE E1.E1
(esc.1:25)CORTE E2.E2
(esc.1:25)

R00	EMISSÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2021
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2021
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

DOCUMENTOS DE REFERÊNCIA

 <p>11, Camilo de Aguiar, n.º 145 1200-008 LISBOA t. 213 600 000 f. 213 600 001 www.architectus.pt</p>		N.º DO CONTRATO 031/2019-COGIC	
		PROCESSO 25389.000189/2017-19	
		COORDENADOR DA META MARLY ZIED	FISCAL DE CONTRATO TAMIREIS PAZ
		NOME DO ARQUIVO GED 30000393-03-OS8-C00-EST-DE-1010-R01.DWG	
 <p>Ministério da Saúde</p>		NOME DO PRÉDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA	
FIOCRUZ Fundação Oswaldo Cruz			
Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras			
OBJETIVO CONSTRUÇÃO	N.º DA META 2017.027	N.º PRÉDIO 502	CAMPUS RONDÔNIA
		O.E. / O.R.	SETOR EDIFICAÇÃO
TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO		NOME DO ARQUIVO SIENGE	
TÍTULO DA PRANCHA ARM.LAJES NOVA NIVEL 813		FASE PROJETO EXECUTIVO	
		DATA NOVEMBRO/2020	
		ESCALA INDICADA	
COORDENADOR ALEXANDER LANDIM		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	
EQUIPE ARCHITECTUS			

EST-0010

EST-0010

Technical drawing showing a mechanical assembly with dimensions and part specifications.

Top View:

- Overall width: 127
- Top section: 2 N2 ϕ 10 C=152
- Bottom section: 2 N1 ϕ 5 C=165
- Distance between top and bottom sections: 75
- Bottom section detail: 2 N3 ϕ 10 C=132
- Bottom section detail dimension: 107
- Bottom section detail dimension: 160

Side View (Corte A):

- Overall height: 50
- Top section: 15
- Bottom section: 10
- Bottom section detail: 45

Bottom View:

- Overall width: 163
- Top section: 22 ϕ 5 C/15 N6 (318)
- Bottom section: 1 N5 ϕ 12.5 C=290
- Bottom section detail: 355
- Bottom section detail: 2 N4 ϕ 16 C=435
- Bottom section detail dimension: 40
- Bottom section detail dimension: 40

Labels:

- P101
- V207

Technical drawing of a reinforced concrete slab (VR207 and VR208) showing dimensions, reinforcement details, and a cross-section (Corte A).

Reinforcement Details:

- 2 N2 ϕ 10 C=146
- 2 N1 ϕ 5 C=225
- 2 N4 ϕ 12.5 C=415
- 2 N3 ϕ 5 C=205
- 2 N5 ϕ 10 C=114
- 2 N6 ϕ 10 C=1030
- 2 N7 ϕ 10 C=70
- 2 N8 ϕ 5 C=145
- 2 N9 ϕ 5 C=478
- 2 N10 ϕ 5 C=488

Dimensions and Spacing:

- 15
- 121
- 86
- 207
- 83
- 10
- 15
- 10
- 55
- 15
- 26 ϕ 5 C/18 NB (450)
- 27 ϕ 5 C/18 NB (475)
- 40
- 990
- 10
- 1030
- 70

Other Labels:

- VR207
- VR208
- P29
- Corte A
- 53 N8 ϕ 5 C=145

1. INSERÇÃO DAS BARRAS NA ESTRUTURA EXISTENTE.

A. EXECUTAR FURTO COM BROCA DE DIÂMETRO IMEDIATAMENTE SUPERIOR AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;

Ø BARRA (mm)	Ø FURTO (mm)
8mm	10mm
10mm	12,5mm
12,5mm	16mm
16mm	20mm
20mm	25mm

B. LIMPAR E PREENCHER OS FURDS COM ADESIVO ESTRUTURAL À BASE DE EPOXI (SIKADUR-32 OU SIMILAR);

C. INTRODUIZIR AS BARRAS NOS FURDS E CONCRETAR A PEÇA COM CONCRETO DE $f_{ck} > 30$ MPa.

D. AO APICAR E PERFURAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.

E. AS DOBRAS DAS EXTREMIDADES DOS ESTRIÇOS DEVERÃO SER DOBRADAS APÓS A MONTAGEM.

RESUMÓ ACQ CA 50-60				
ACQ	BIT	COMPR	PESO	
	(mm)	(m)	(kg)	
60B	5	483		77
50A	7.3	75		19
50A	8	26		11
50A	10	87		55
50A	12.5	42		42
50A	16	20		32
50A	20	23		56
Peso	Total	60B =	77 kg	
Peso	Total	50A =	215 kg	

The drawing consists of two parts: a side elevation labeled 'Corte A' and a front elevation labeled 'V206'.

Corte A (Side Elevation): This view shows the side profile of the staircase. The total width is 117. The top tread is 10, and the nosing is 2. The total depth is 15. The section line A-A is indicated.

V206 (Front Elevation): This view shows the front profile of the staircase. The total width is 358. The top tread is 10, and the nosing is 2. The total depth is 15. The section line V206-V207 is indicated.

Technical drawing of a mechanical part showing two views: a front view and a side view labeled "Corte A".

Front View:

- Overall width: 137
- Central slot width: 84
- Distance from slot to right edge: 10
- Holes: 2 N1 Ø 5 C=160 (left), 2 N3 Ø 10 C=115 (right)
- Centerline is indicated.

Side View (Corte A):

- Overall height: 60
- Top flange thickness: 15
- Bottom flange thickness: 10
- Holes: 2 N6 Ø 5 C=145 (left), 2 N5 Ø 10 C=75 (right)
- Centerline is indicated.

Technical drawing of a mechanical assembly, likely a shaft or axle, showing various components, dimensions, and material specifications. The drawing includes a central shaft with a diameter of 15X60, flanked by two 30X60 components. It also shows various bolts (N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13, N14) and nuts (N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, N11, N12, N13, N14) with their respective diameters and thread types. Dimensions are given in millimeters (mm) and centimeters (C). The drawing is labeled 'Fig. 1' and 'Fig. 2'.

Fig. 1

1 N1 \varnothing 10 C=195
2 N2 \varnothing 16 C=265
3 N3 \varnothing 16 C=265
4 N4 \varnothing 10 C=225
5 N5 \varnothing 16 C=295
6 N6 \varnothing 8 C=120
7 N7 \varnothing 8 C=90
8 N8 \varnothing 20 C=897
9 N9 \varnothing 20 C=460
10 N10 \varnothing 8 C=100
11 N11 \varnothing 6.3 C=15
12 N12 \varnothing 8 C=92
13 N13 \varnothing 5 C=700
14 N14 \varnothing 8 C=122

Fig. 2

1 N1 \varnothing 10 C=195
2 N2 \varnothing 16 C=265
3 N3 \varnothing 16 C=265
4 N4 \varnothing 10 C=225
5 N5 \varnothing 16 C=295
6 N6 \varnothing 8 C=120
7 N7 \varnothing 8 C=90
8 N8 \varnothing 20 C=897
9 N9 \varnothing 20 C=460
10 N10 \varnothing 8 C=100
11 N11 \varnothing 6.3 C=15
12 N12 \varnothing 8 C=92
13 N13 \varnothing 5 C=700
14 N14 \varnothing 8 C=122

Technical drawing of a rectangular plate. The top view shows a rectangle with dimensions 30 (width) and 60 (height). The bottom view shows a rectangle with dimensions 25 (width) and 55 (height). The top view is labeled with '1 N1' at the top left, '2' at the top right, '1 N7' at the bottom left, and '2' at the bottom right. The bottom view is labeled with '4 N10' at the bottom left, 'ø 8 C=175' at the bottom right, and '2' at the bottom right. The drawing includes a small detail of a corner with a fillet radius.

Technical drawing of a rectangular plate. The top view is a rectangle with dimensions 30 (width) and 60 (height). It is labeled with 1 N4 at the top-left corner, 2 N5 at the top-right corner, 1 N6 at the bottom-left corner, and 2 N8 at the bottom-right corner. The bottom view is a rectangle with dimensions 25 (width) and 55 (height). It is labeled with 5 N10 at the bottom-left corner. Below the bottom view, the text $\varnothing 8 \text{ C}=175$ is written.

Technical drawing of a window frame assembly, showing a cross-section (Corte A) and a front elevation.

Corte A (Cross-section):

- Top rail: 2 N1 \varnothing 10 C=239
- Bottom rail: 2 N2 \varnothing 10 C=75
- Frame height: 50
- Frame width: 15
- Bottom rail detail: 2 N2 \varnothing 10 C=75
- Bottom rail detail: 10
- Bottom rail detail: 45

Front Elevation:

- Top rail: 2 N1 \varnothing 10 C=239
- Bottom rail: 2 N2 \varnothing 10 C=75
- Frame height: 162
- Frame width: 19
- Frame material: N5 (225)
- Frame detail: 19 \varnothing 5 C/12
- Frame detail: 2 N3 \varnothing 12.5 C=75
- Frame detail: 2 N4 \varnothing 12.5 C=245
- Frame detail: 19 N5 \varnothing 5 C=125

Technical drawing of a staircase showing side and top views with dimensions and material specifications.

Side View (Top):

- Top rail: 2 N2 ϕ 10 C=122
- Handrail: 2 N1 ϕ 5 C=145
- Stringer: 2 N2 ϕ 10 C=122
- Dimensions: 10 (top rail offset), 85 (handrail offset), 17 (top rail thickness), 50 (handrail height), 12 (stringer thickness), 55 (stringer height).

Side View (Bottom):

- Top rail: 2 N3 ϕ 10 C=315
- Handrail: 2 N4 ϕ 10 C=65
- Stringer: 2 N5 ϕ 5 C=150
- Dimensions: 10 (top rail offset), 10 (handrail offset), 17 (top rail thickness), 50 (handrail height), 12 (stringer thickness), 55 (stringer height).

Top View:

- Dimensions: 22 ϕ 5 C/15 (width), 315 (length).
- Material: N5 (315).
- Label: (costela) 315.

CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

EST-0011

The drawing shows the hull plan of a ship, divided into three main sections: P49, P34, and P14. Each section contains detailed structural information, including dimensions, material specifications, and stiffener layouts.

Section P49:

- Top edge: 3 N2 ϕ 12.5 C=185
- Stiffener: 2 N1 ϕ 8 C=425
- Bottom edge: 1 N7 ϕ 16 C=830
- Bottom edge: 1 N8 ϕ 16 C=90
- Bottom edge: 2 N6 ϕ 16 C=910

Section P34:

- Top edge: 4 N4 ϕ 16 C=655
- Stiffener: (1 ϕ 20 CAM)
- Stiffener: 2 N11 ϕ 20 C=900
- Stiffener: 1 N10 ϕ 20 C=565
- Stiffener: 1 N12 ϕ 20 C=110
- Stiffener: 1 N8 ϕ 16 C=90
- Stiffener: 1 N9 ϕ 20 C=1060

Section P14:

- Top edge: 3 N5 ϕ 20 C=498
- Stiffener: 12 ϕ 8 C/20 N14 (235)
- Stiffener: (costela) 235 3 N17 ϕ 8 C=235
- Stiffener: 2 N13 ϕ 16 C=235
- Stiffener: 1 N8 ϕ 16 C=90
- Stiffener: 1 N12 ϕ 20 C=110
- Stiffener: 1 N9 ϕ 20 C=1060
- Stiffener: 1 N8 ϕ 16 C=90

42 N14 \varnothing 8 C=1

58 N14 Ø 8 C=190

Ø BARRA (mm)	Ø FURD (mm)
8mm	10mm
10mm	12.5mm
12.5mm	16mm
16mm	20mm
20mm	25mm

E. AS DOBRAS DAS EXTREMIDADES DOS ESTRIBOS DEVERAO SER DOBRADAS APOS A MONTAGEM.

ELEMENTO	POS	BIT (mm)	QUANT	COMPRIM. UNIT.
VR201	1	8	2	425
	2	12,5	3	185
	3	8	4	480
	4	16	4	655
	5	20	3	498
	6	16	2	910
	7	16	1	830
	8	16	4	90
	9	20	1	1060
	10	20	1	565
	11	20	2	900
	12	20	2	110
	13	16	2	235
	14	8	100	190
	15	8	3	830
	16	8	3	970
	17	8	3	235
VR202	1	8	2	600
	2	12,5	4	150
	3	12,5	2	605
	4	20	2	1015
	5	8	2	575
	6	16	2	670
	7	16	2	129
	8	20	4	930
	9	20	1	630
	10	16	2	90
	11	16	2	1000
	12	16	1	900
	13	20	1	911
	14	20	1	670
	15	20	4	110
	16	20	2	830
	17	8	125	235
VR203=VR204=VR205=VR206 (X4)	18	8	42	190
	19	8	8	830
	20	8	6	970
	1	8	16	600
	2	16	16	8
	3	20	8	650
	4	20	8	810
	5	20	16	930
	6	20	16	830
	7	20	16	110
	8	12,5	16	1000
	9	12,5	4	900
	10	20	16	933
	11	8	740	235
	12	8	48	830
	13	8	24	970
	14	12,5	8	75

RESUMO ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
50A	8	3265	1306
50A	12,5	226	226
50A	16	140	224
50A	20	719	1798
Peso Total		50A =	3554 kg

A diagram of a rectangular frame. The outer rectangle has a width of 50 and a height of 60. Inside it is a smaller rectangle. At each of the four corners of the inner rectangle, there is a small circle. The circles are arranged in a 2x2 grid.

A diagram of a rectangular table. The outer rectangle has a width of 60 and a length of 50. The inner rectangle represents the table top. The space between the inner and outer rectangles is filled with small circles, representing chairs. There are 6 chairs on each of the four sides of the table.

P1

60 N17 ϕ 8 C=235

5

55 N17 Ø 8 C=235

42 N18 Ø 8 C=190

DEVERÁ SER REFEITO COM GRAUTE

CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

Technical drawing of a reinforced concrete slab (P52, P37, P17) showing dimensions, reinforcement details, and material specifications.

Reinforcement Details:

- Top Reinforcement:**
 - 2 N2 ϕ 16 C=200
 - 2 N1 ϕ 8 C=600
 - 2 N3 ϕ 20 C=650
 - 2 N4 ϕ 20 C=810
 - 2 N2 ϕ 16 C=200
- Bottom Reinforcement:**
 - 1 N7 ϕ 20 C=110
 - 2 N6 ϕ 20 C=830
 - 4 N5 ϕ 20 C=930
 - 1 N14 ϕ 12.5 C=75
 - 1 N9 ϕ 12.5 C=900
 - 4 N8 ϕ 12.5 C=1000
 - 1 N7 ϕ 20 C=110
 - 2 N6 ϕ 20 C=830
 - 4 N10 ϕ 20 C=933
- Other Details:**
 - 60 ϕ 8 C/14 N11 (830)
 - 65 ϕ 8 C/14 N11 (900)
 - 60 ϕ 8 C/14 N11 (830)
 - (costela) 830 2x3 N12 ϕ 8 C=830
 - (costela) 970 2x3 N13 ϕ 8 C=970
 - (costela) 830 2x3 N12 ϕ 8 C=830

Dimensions and Spacing:

- 15, 242, 180, 111, 10, 125, 10, 50, 11

A diagram of a rectangular garden. The outer boundary is a rectangle with a width of 50m and a height of 60m. Inside this, there is a smaller rectangle representing the garden area. The space between the two rectangles is a path that is 10m wide. The path is shown as a uniform border around the inner garden area.

P3

40
40
55
45
55

185 N11 Ø 8 C=235

R00	EMIÇÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

DOCUMENTOS DE REFERÊNCIA:

ARCTECTUS

Ar. Carlos de Aguiar e Silva
R. 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Coordenação Geral de Infraestrutura dos Campi
Departamento de Projetos e Obras

OBJETIVO
CONSTRUÇÃO

Nº DA META
2017.027

TIPO DE PROJETO / SUBTIPO DE PROJETO
ESTRUTURA DE CONCRETO

TÍTULO DA FRANCHA

ARM.VIGAS REFORÇADAS 01-02 NIVEL 813

COORDENADOR
ALEXANDRE LANDIM

EQUIPE
ARCTECTUS

RESPONSÁVEL TÉCNICO
AMÉRICO FARIAS

CO-RESPONSÁVEL TÉCNICO
HELDER MARTINS

NOME DO ARQUIVO GD
30000393-03-OS8-C00-EST-DE-1012-R01.DWG

NOME DO PRÉDIO / ÁREA

CAMPUS FIOCRUZ RONDÔNIA
BLOCO DE ENSINO E PESQUISA

Nº PRÉDIO
602

CAMPUS
RONDÔNIA

SETOR
EDIFICAÇÃO

O.E. / O.R.

NOME DO ARQUIVO SIENGE

FASE
PROJETO EXECUTIVO

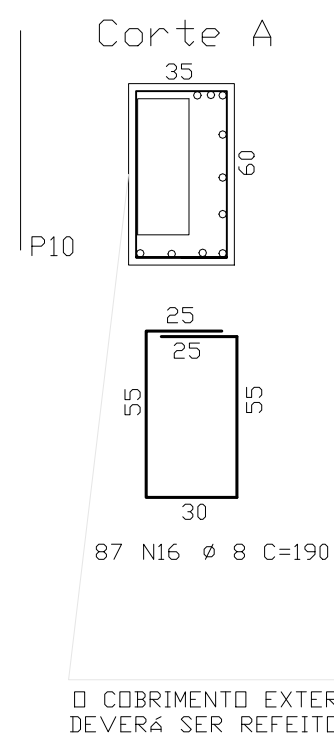
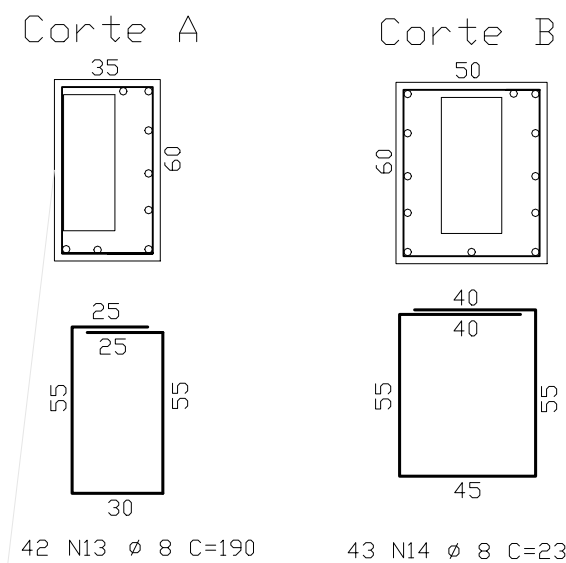
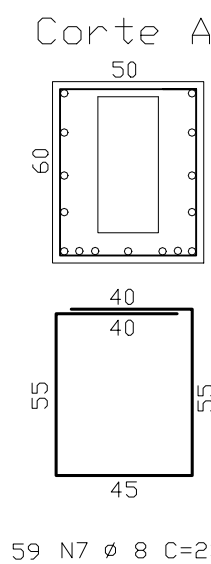
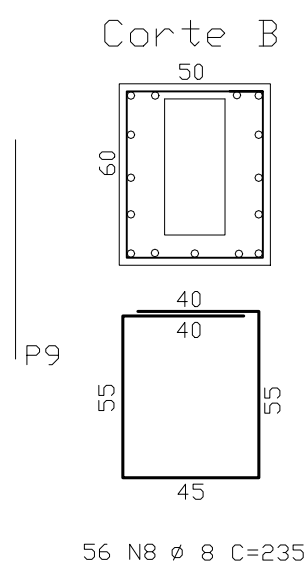
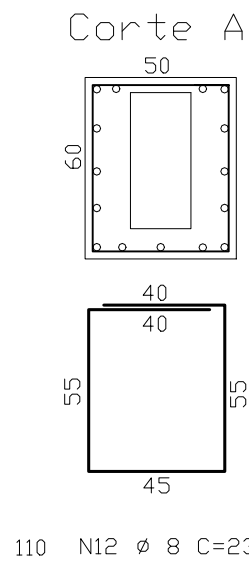
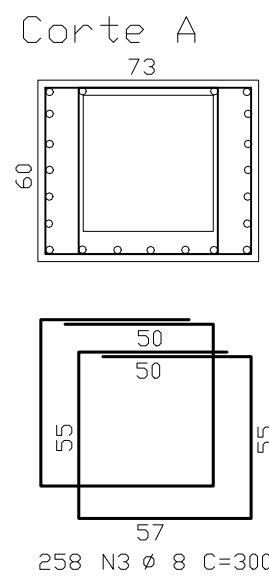
DATA
NOVEMBRO/2020

ESCALA
INDICADA

EST-0012

EST-0012


RANCHA A1 - 840 x 593 mm



RESUM0 ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
50A	8	2397	959
50A	10	13	8
50A	12.5	205	205
50A	16	299	478
50A	20	185	463
Peso Total		50A =	2112 kg

CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

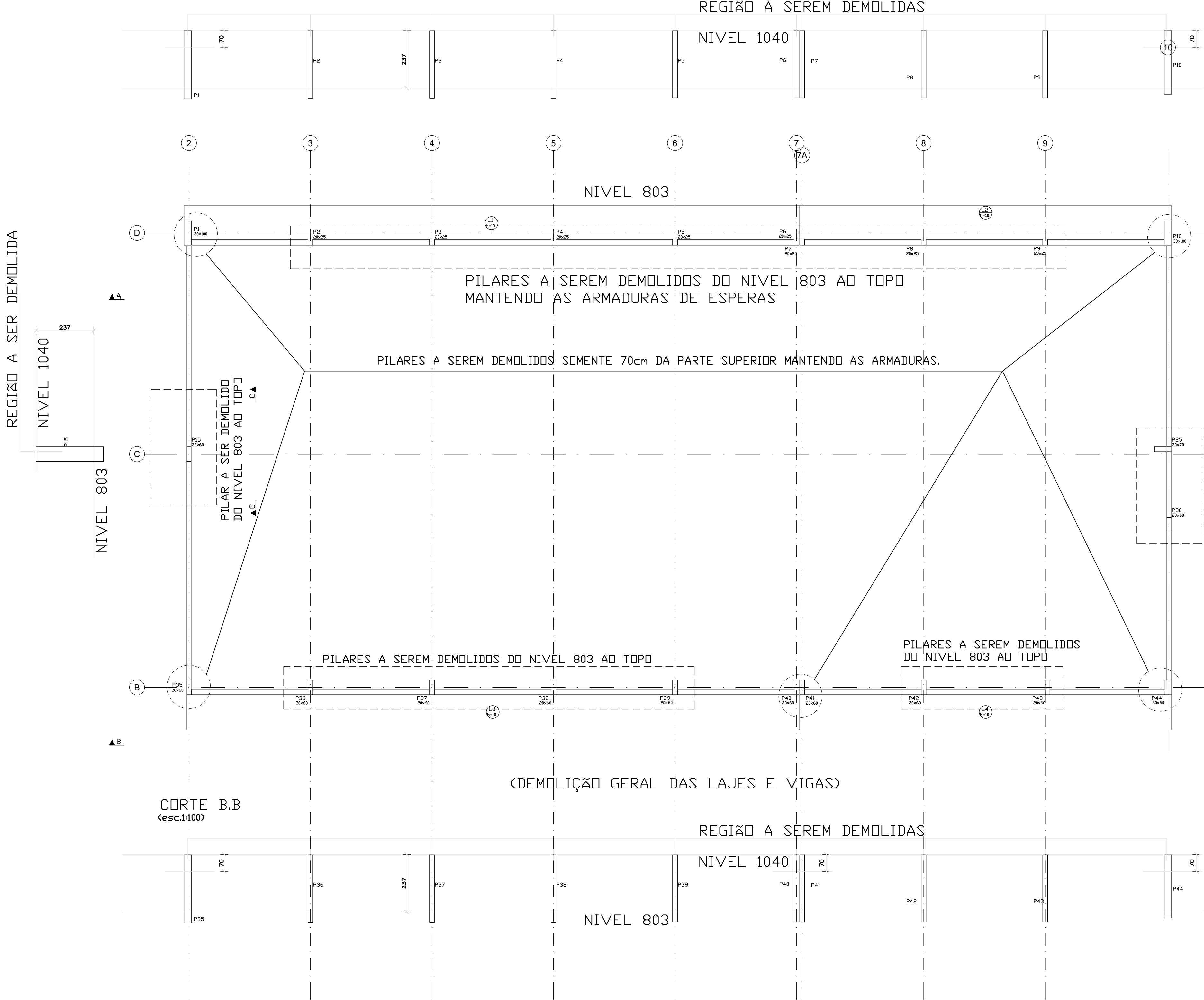
DOCUMENTOS DE REFERÊNCIA:
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 <p> <small>R. Cavale de Aguiar, 100 - 1º andar - Sala 101 Recreio dos Bandeirantes - 22240-000 - Rio de Janeiro - RJ</small> </p>		Nº DO CONTRATO 031/2019-COGIC	
PROCESSO 25389.000/189/2017-19		FISCAL DE CONTRATO TAMIREIS PAZ	
COORDENADOR DA META MARLY ZIED		NOME DO ARQUIVO 30000393-03-0S8-C00-EST-DE-1013-R01.DWG	
NOME DO PROJETO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA		Nº DO PROJETO 602	
NOME DO PROJETO SIQUEIRA EST-0013		SETOR EDIFICAÇÃO	
O.E. / O.R. NOME DO PROJETO SIQUEIRA		FASE PROJETO EXECUTIVO	
DATA NOVEMBRO/2020		ESCALA INDICADA	
COORDENADOR AMERICO FARIAS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	
EQUIPE ARCHITECTUS		DATA NOVEMBRO/2020	

EST-0013

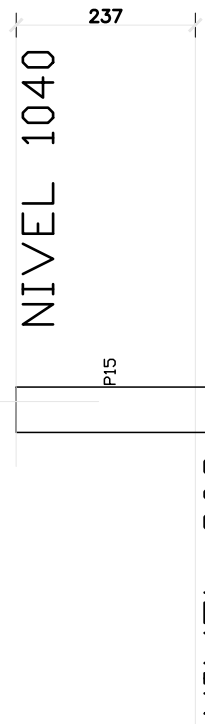
PLANTA DE DEMOLIÇÃO NIVEL 1040
(esc.1/100)

CORTE A.A
(esc.1/100)

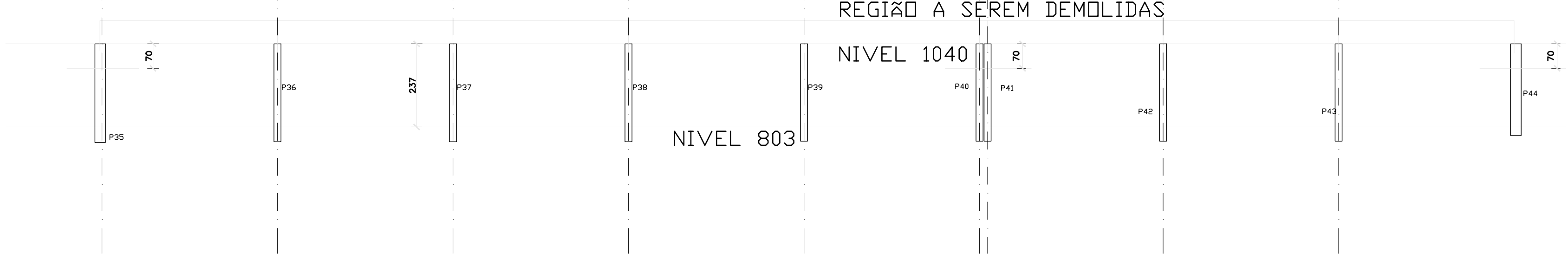


CORTE C.C
(esc.1/100)

REGIÃO A SER DEMOLIDA

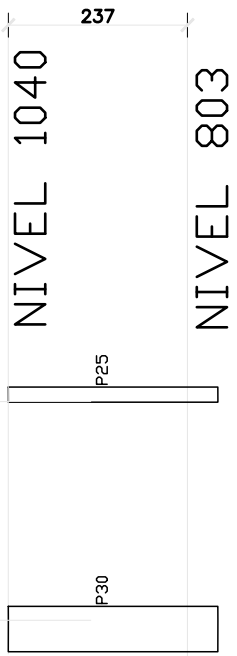


CORTE B.B
(esc.1/100)



CORTE D.D
(esc.1/100)

REGIÃO A SEREM DEMOLIDAS



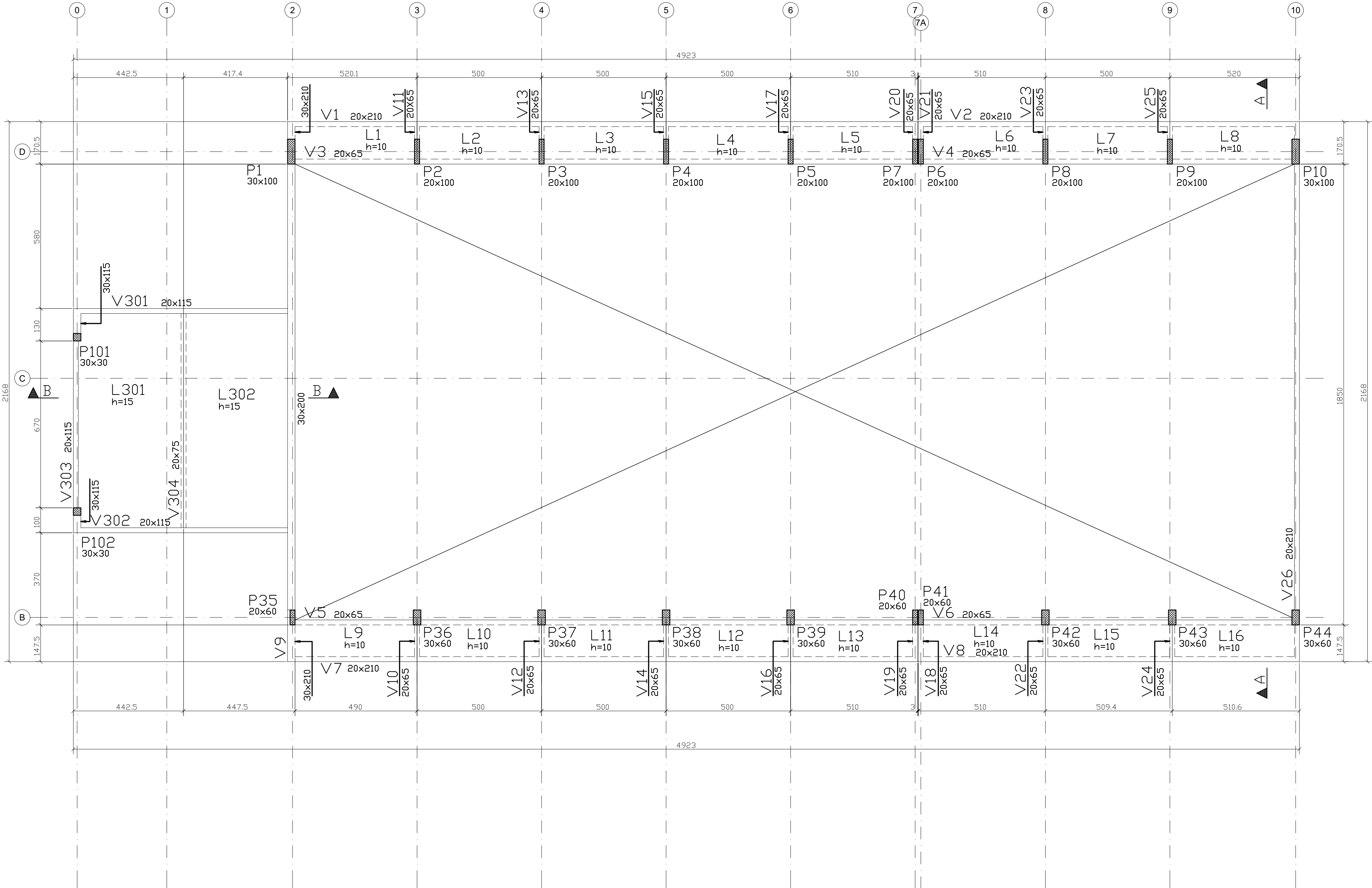
CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

R00	EMISSÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020	
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020	
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA	
DOCUMENTOS DE REFERÊNCIA:					
- - - - - -					
<div> R. Camilo de Aguiar n. 1401 Rio de Janeiro RJ 20040-910 Telefone: (21) 2538-9000 www.architectus.com.br</div> <div></div> <div>Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras</div>		Nº DO CONTRATO 031/2019-COGIC			
		PROCESSO 25389.000/189/2017-19			
		COORDENADOR DA META MARLY ZIED		FISCAL DE CONTRATO TAMIRES PAZ	
		NOME DO ARQUIVO GED 30000393-03-OS8-C00-EST-DE-1014-R01.DWG			
		NOME DO PRÉDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA			
OBJETIVO CONSTRUÇÃO		Nº DA META 2017.027	Nº PRÉDIO 602	CAMPUS RONDÔNIA	SETOR EDIFICAÇÃO
TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO		O.E. / O.R.			NOME DO ARQUIVO SIENGE
TÍTULO DA PRANCHA FORMA DEMOLIÇÃO NIVEL 1040		FASE PROJETO EXECUTIVO			DATA NOVEMBRO/2020
COORDENADOR ALEXANDRE LANDIM		RESPONSÁVEL TÉCNICO AMÉRICO FARIAS			ESCALA INDICADA
EQUIPE ARCHITECTUS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS			

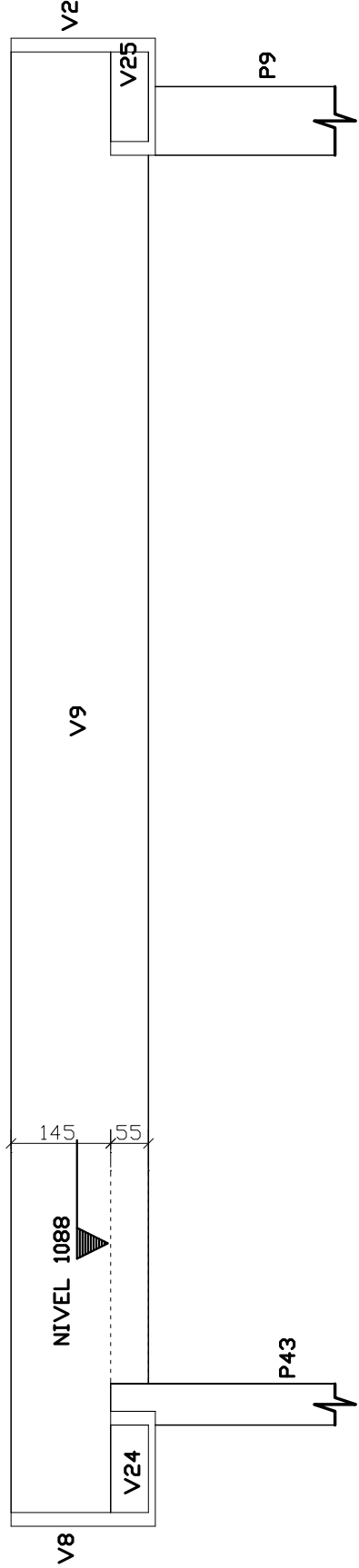
EST-0014

EST-0014

PLANTA DE ELEMENTOS ESTRUTURAIS A SEREM CONSTRUIDAS NIVEL 1088
(esc.1/100)



CORTE A.A
(esc.1/100)



CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

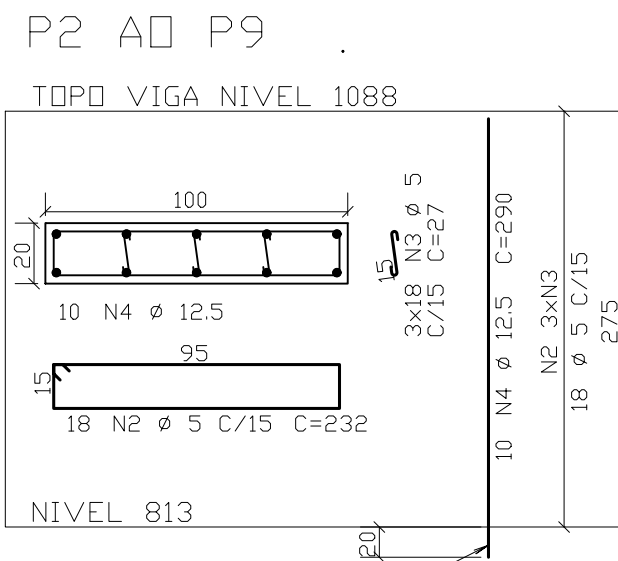
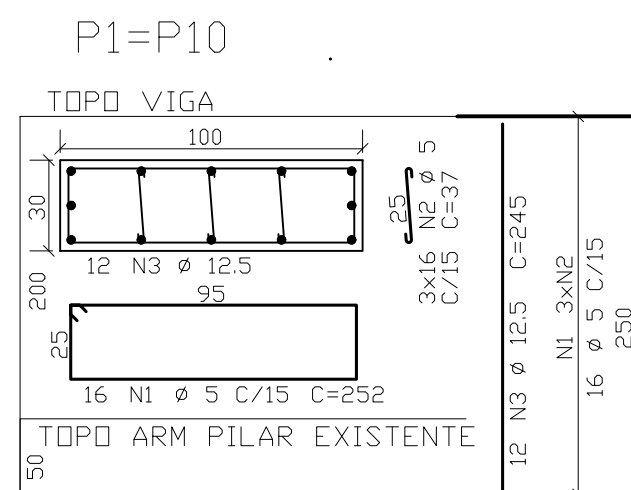
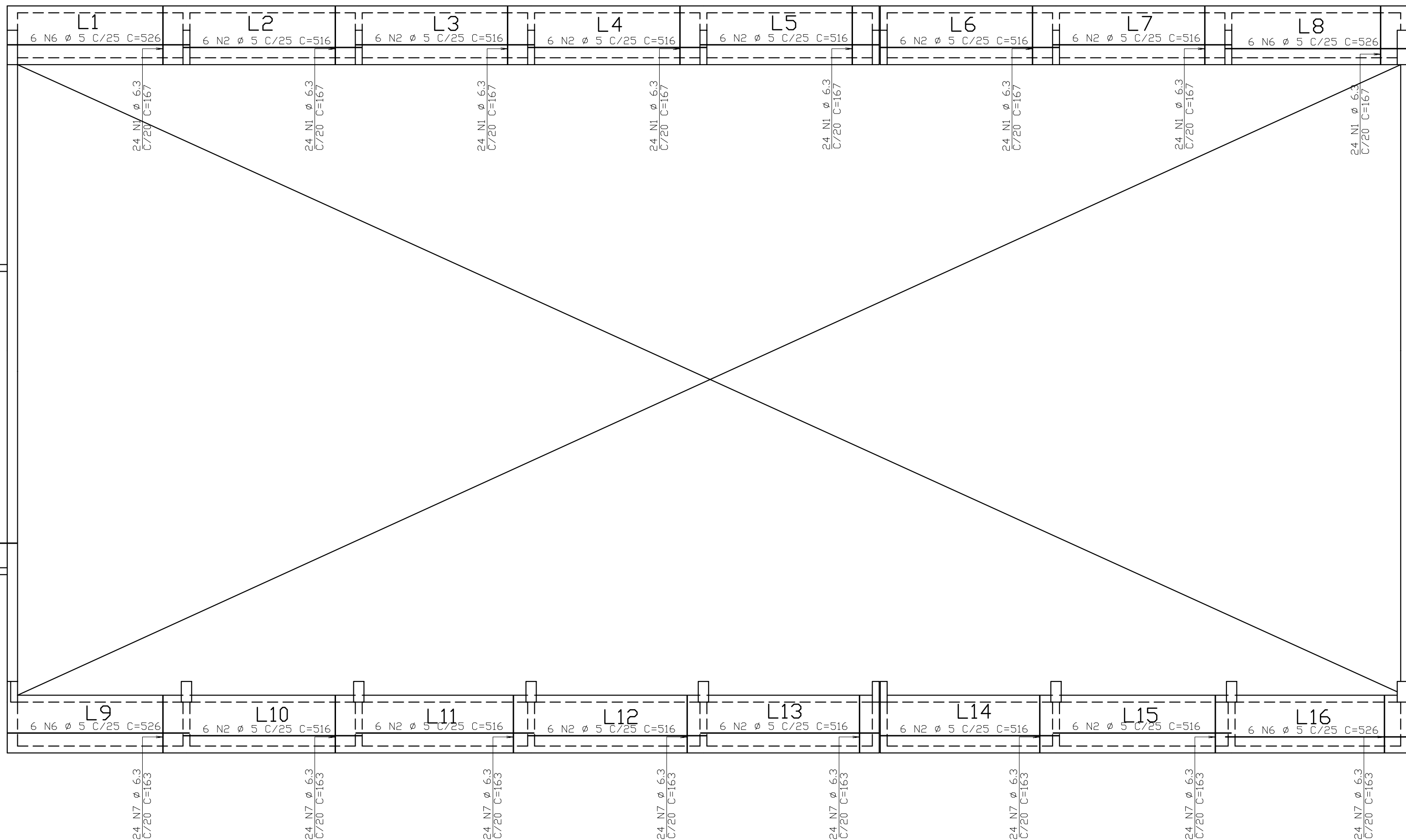
CORTE A.A
(esc.1/100)



R00	EMISSÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA
DOCUMENTOS DE REFERÊNCIA:				
+ + + + +				
 ARCHITECTUS <small>R. Cavaleiro de Aguiar, s/não Praça Jefferson Bairro Santa Margareta - Rio de Janeiro</small>		Nº DO CONTRATO 031/2019-COGIC PROCESSO 25389.000189/2017-19 COORDENADOR DA META MARLY ZIED FISCAL DE CONTRATO TAMIRES PAZ		
 Ministério da Saúde FIOCRUZ Fundação Oswaldo Cruz		NOME DO ARQUIVO GED 30000393-03-OS8-C00-EST-DE-1015-R01.DWG NOME DO PRÉDIO / ÁREA CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA		
Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras		Nº PRÉDIO 602	CAMPUS RONDÔNIA	SETOR EDIFICAÇÃO
OBJETIVO CONSTRUÇÃO		Nº DA META 2017.027	O.E. / O.R.	
TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO		NOME DO ARQUIVO SIENGE		
TÍTULO DA PRANCHIA FORMA NOVA NIVEL 1088		FASE PROJETO EXECUTIVO		
		DATA NOVEMBRO/2020		
		ESCALA INDICADA		
COORDENADOR ALEXANDRE LANDIM		RESPONSÁVEL TÉCNICO AMÉRICO FARIAS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS
EQUIPE ARCHITECTUS				

EST-0015

PRANCHIA: A1 - 360 x 600 mm



A. EXECUTAR FURDO COM BROCA DE DIÂMETRO IMEDIATAMENTE SUPERIOR AO DA BARRA E PROFUNDIDADE CONFORME COTA EM PLANTA;

Ø BARRA (mm)	Ø FURD (mm)
12.5mm	16mm

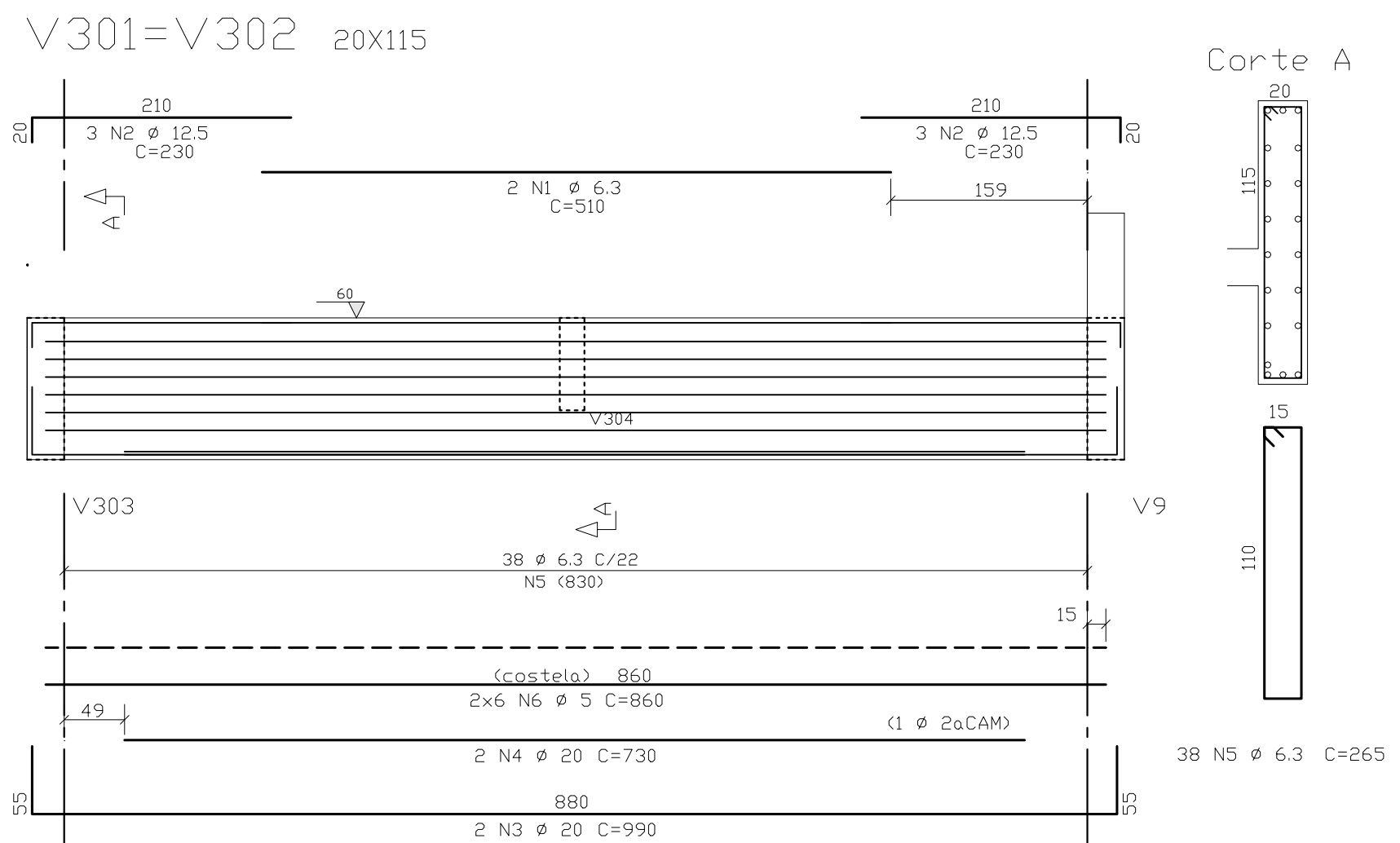
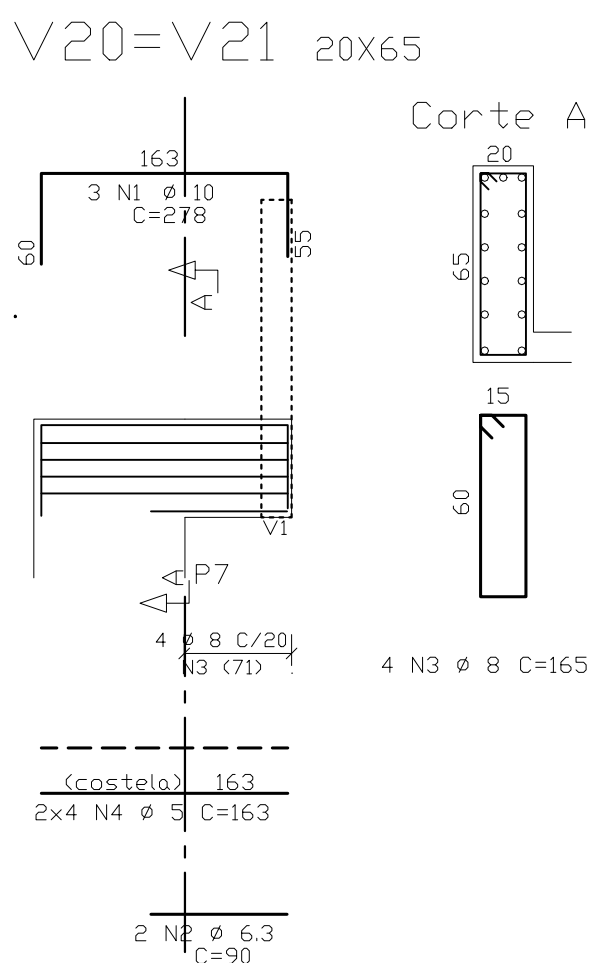
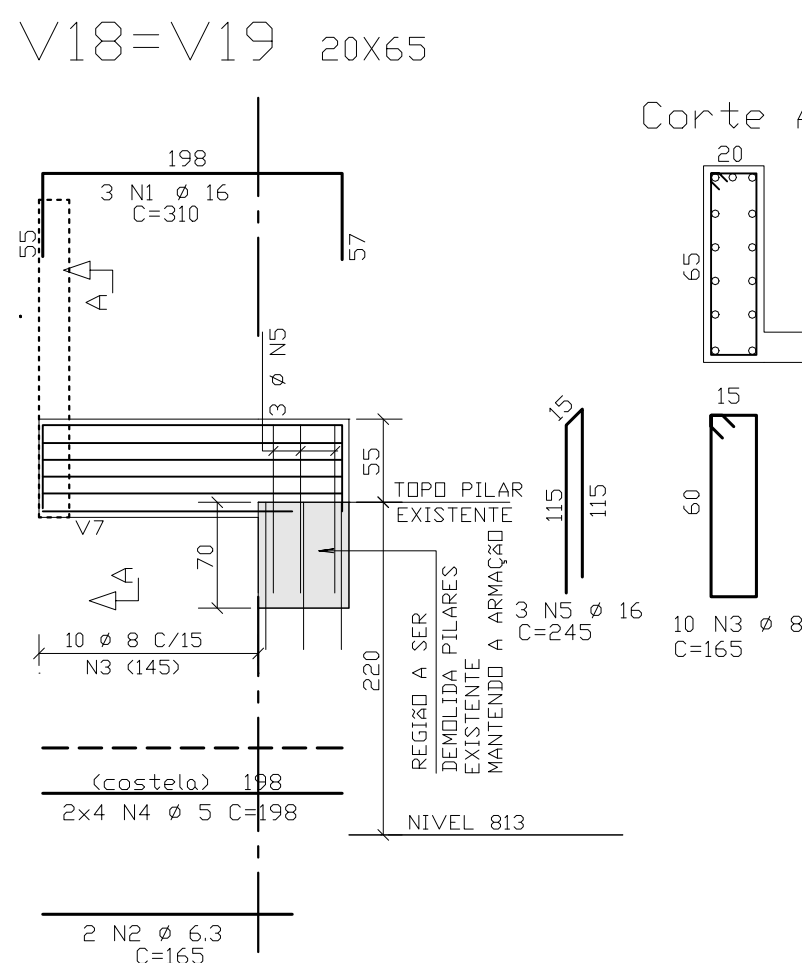
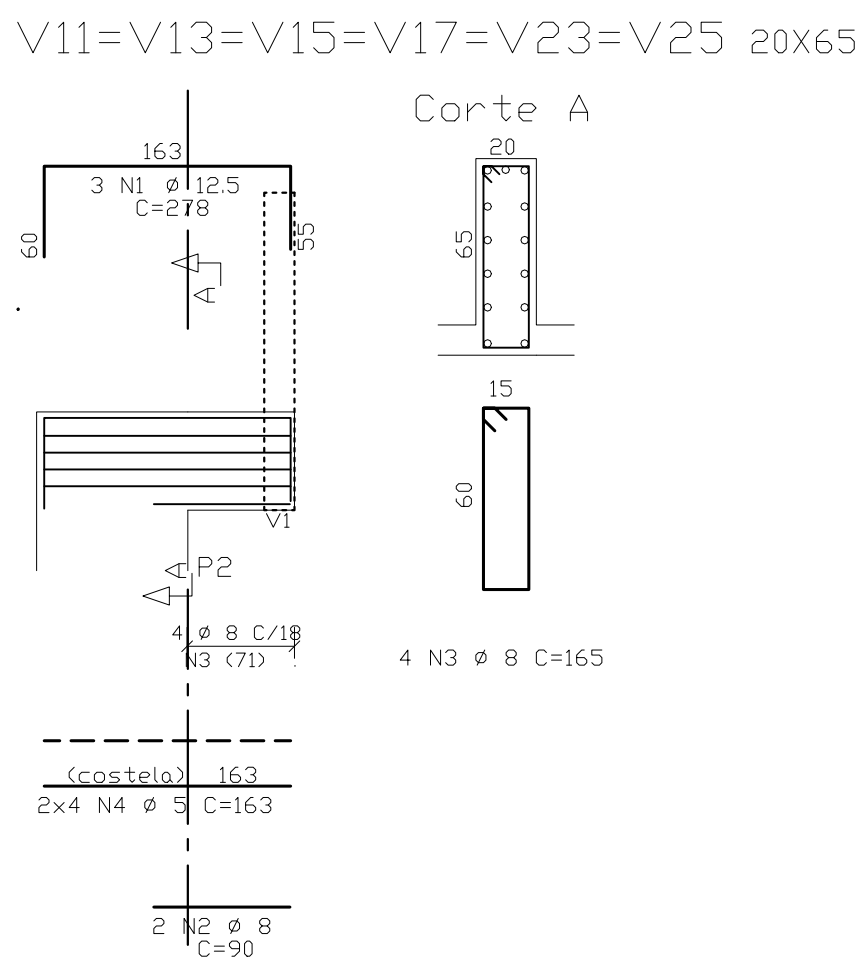
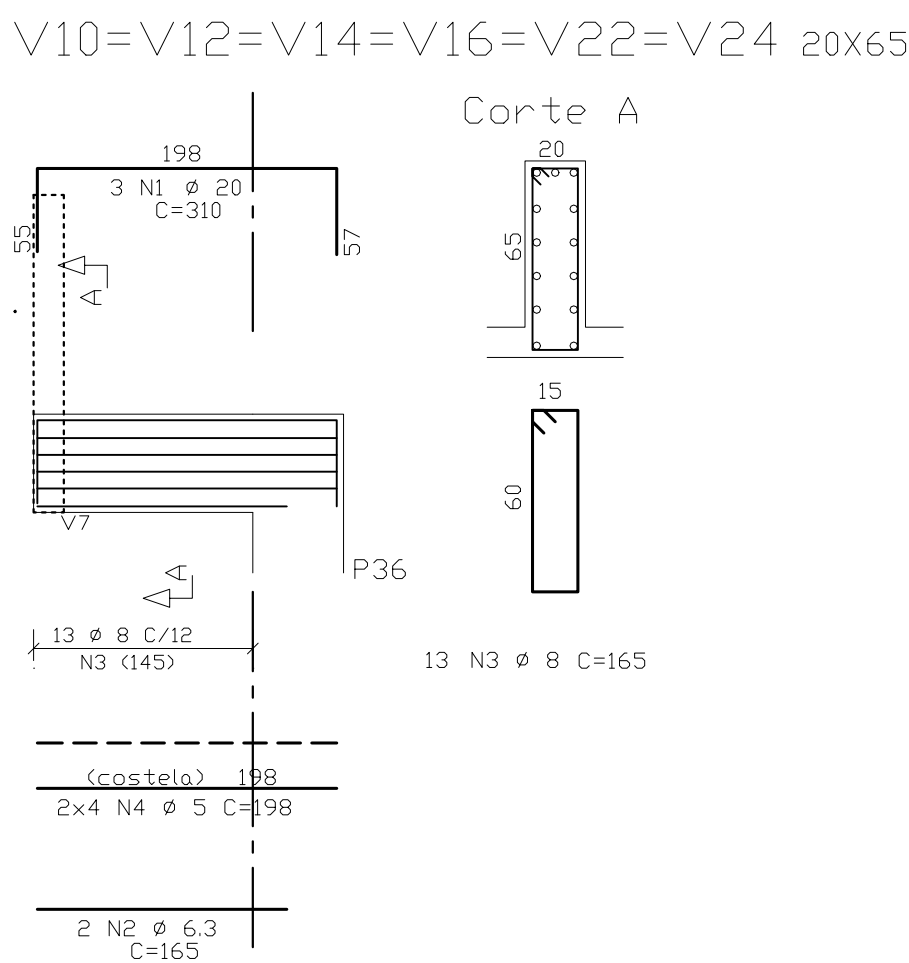
B. LIMPAR E PREENCHER OS FUROS COM ADESIVO ESTRUTURAL À BASE DE EPÓXI (SIKADUR-32 OU SIMILAR);

C. INTRODUZIR AS BARRAS NOS FUROS E CONCRETAR A PEÇA COM CONCRETO DE $f_{ck} \geq 30$ MPa;

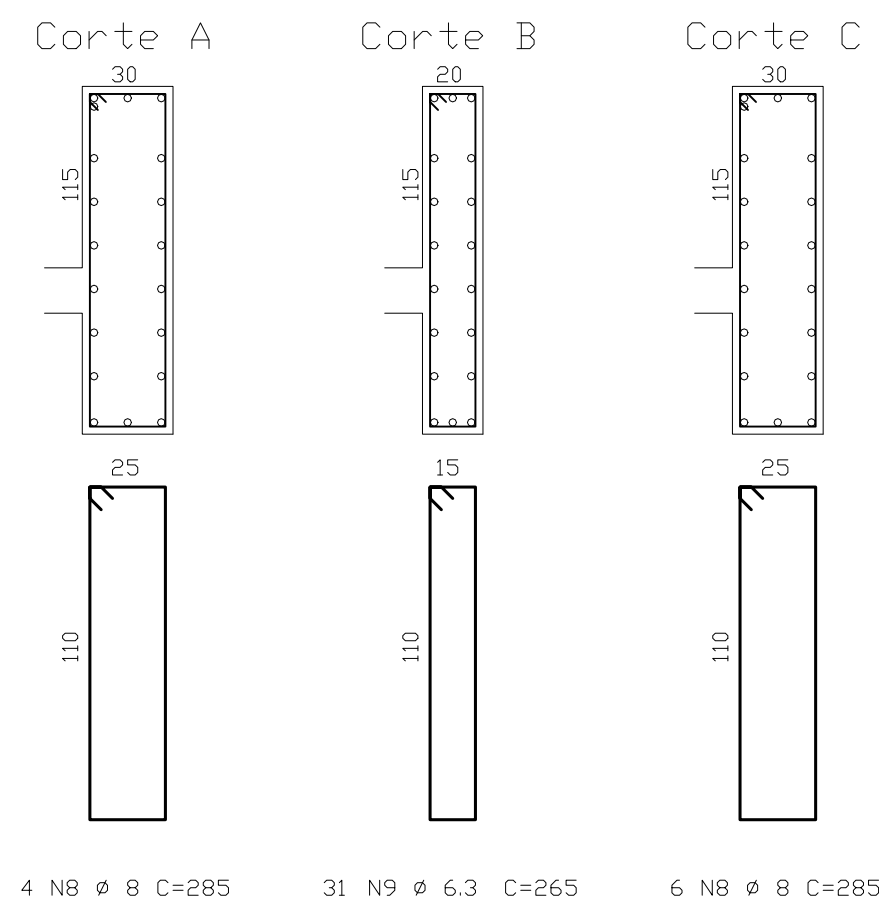
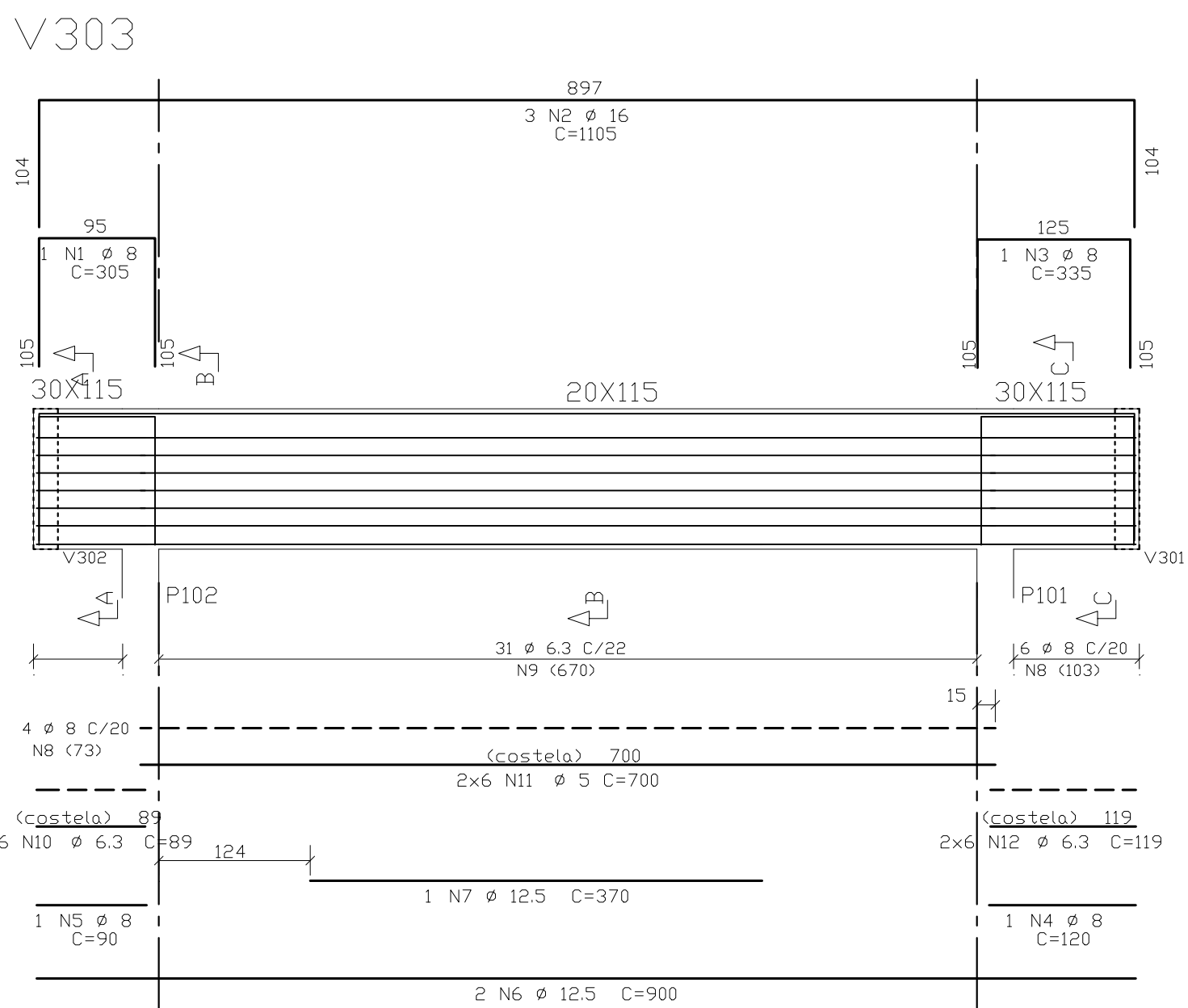
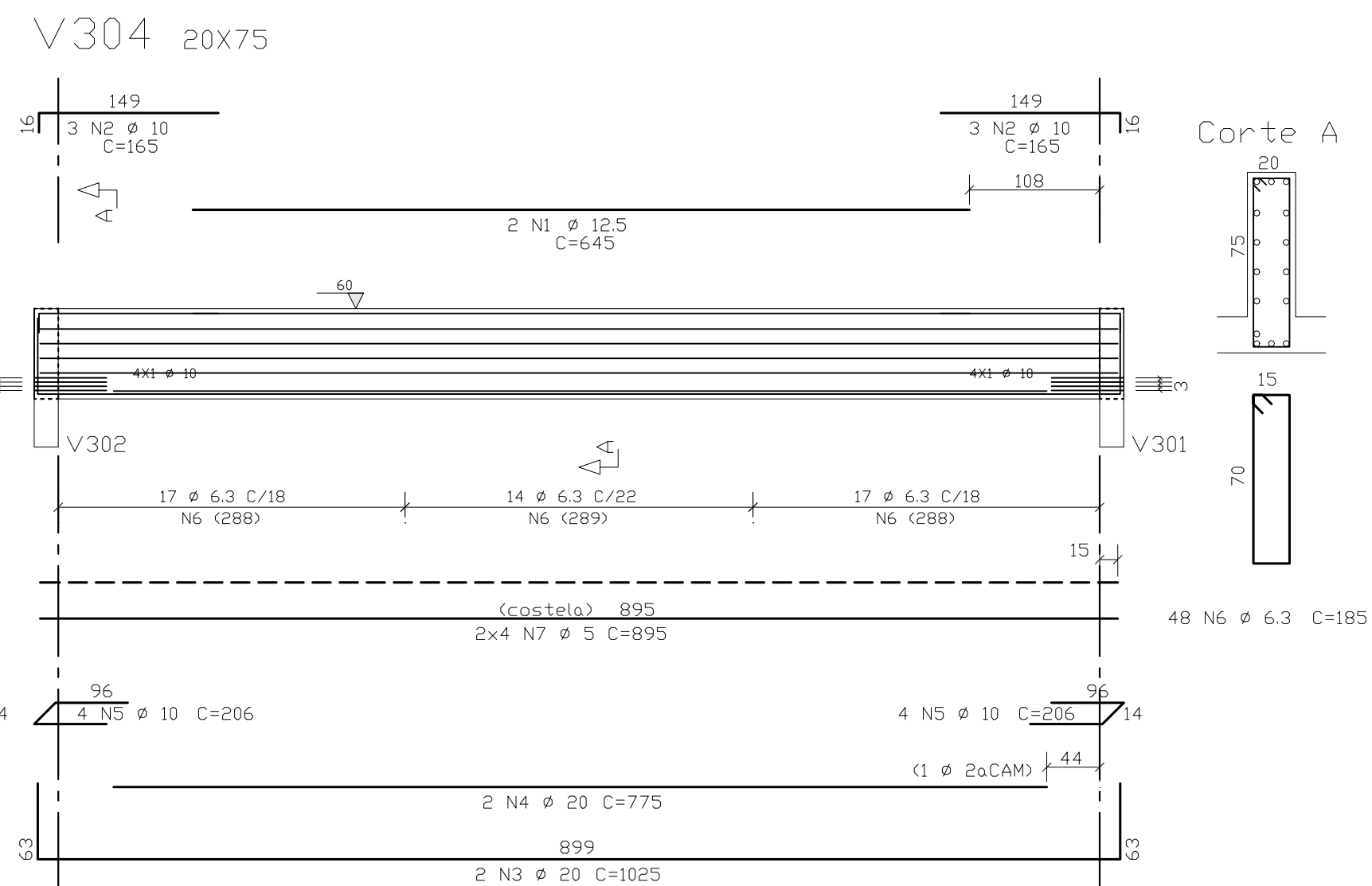
D. AO APLICAR E PERFURAR DEVE-SE TER CUIDADO PARA NÃO DANIFICAR AS ARMADURAS DA ESTRUTURA EXISTENTE.

ELEMENTO	POS	BIT (nm)	QUANT	CDMPRIM. UNIT.
V10=V12=V4=V16=V22=V24			(X6)	
	1	20	12	310
	2	6,3	12	165
	3	8	78	165
	4	5	48	198
V11=V13=V5=V17=V23=V25			(X6)	
	1	20	12	278
	2	8	24	90
	3	5	48	165
	4	8	24	165
V18=V19	(X2)			
	1	6,3	6	310
	2	10	6	165
	3	8	20	165
	4	5	16	245
	5	16	6	245
V20=V21	(X2)			
	1	10	6	278
	2	6,3	4	90
	3	8	8	165
	4	5	16	163
V301=V302	(X2)			
	1	6,3	4	510
	2	12,5	12	230
	3	20	4	990
	4	6,3	4	730
	5	5	74	265
	6	5	26	860
V303				
	1	8	1	305
	2	16	3	1105
	3	120	1	1335
	4	8	1	120
	5	8	1	90
	6	12,5	2	900
	7	12,5	1	370
	8	8	10	285
	9	8	31	265
	10	6,3	12	89
	11	12	12	700
	12	6,3	12	119
V304				
	1	12,5	2	645
	2	10	6	165
	3	20	2	1025
	4	10	2	175
	5	6,3	6	205
	6	6,3	48	885
	7	8	8	896
SRILAJES NIVEL 108B				
	1	6,3	192	167
	2	10	72	516
	3	8	62	448
	4	8	42	896
	5	8	60	453
	6	5	24	526
	7	6,3	192	163
	8	8	43	150
	9	5	10	896
P1=P10	(X2)			
	1	5	32	252
	2	5	96	37
	3	12,5	24	245
P2 AD P9	(X8)			
	2	5	144	232
	3	5	432	290
	4	12,5	80	290

RESUMO ACO CA 50-60			
ACO	BIT	COMPR	PESO
	(mm)	(m)	(kg)
60B	5	2124	340
50A	6,3	1081	270
50A	8	885	354
50A	10	43	27
50A	12,5	403	403
50A	16	66	106
50A	20	161	402
Peso Total		60B =	340 kg
Peso Total		50A =	1562 kg



CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$



R00	EMIÇÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA
DOCUMENTOS DE REFERÊNCIA:				
- - - - -				
<div><p>Il. Candeia de Aguiar, c. 1400 de 1920/1921/1922 1923/1924/1925/1926/1927/1928/1929/1930/1931/1932/1933/1934/1935/1936/1937/1938/1939/1940/1941/1942/1943/1944/1945/1946/1947/1948/1949/1950/1951/1952/1953/1954/1955/1956/1957/1958/1959/1960/1961/1962/1963/1964/1965/1966/1967/1968/1969/1970/1971/1972/1973/1974/1975/1976/1977/1978/1979/1980/1981/1982/1983/1984/1985/1986/1987/1988/1989/1990/1991/1992/1993/1994/1995/1996/1997/1998/1999/2000/2001/2002/2003/2004/2005/2006/2007/2008/2009/2010/2011/2012/2013/2014/2015/2016/2017/2018/2019/2020/2021/2022/2023/2024/2025/2026/2027/2028/2029/2030/2031/2032/2033/2034/2035/2036/2037/2038/2039/2040/2041/2042/2043/2044/2045/2046/2047/2048/2049/2050/2051/2052/2053/2054/2055/2056/2057/2058/2059/2060/2061/2062/2063/2064/2065/2066/2067/2068/2069/2070/2071/2072/2073/2074/2075/2076/2077/2078/2079/2080/2081/2082/2083/2084/2085/2086/2087/2088/2089/2090/2091/2092/2093/2094/2095/2096/2097/2098/2099/2100/2101/2102/2103/2104/2105/2106/2107/2108/2109/2110/2111/2112/2113/2114/2115/2116/2117/2118/2119/2120/2121/2122/2123/2124/2125/2126/2127/2128/2129/2130/2131/2132/2133/2134/2135/2136/2137/2138/2139/2140/2141/2142/2143/2144/2145/2146/2147/2148/2149/2150/2151/2152/2153/2154/2155/2156/2157/2158/2159/2160/2161/2162/2163/2164/2165/2166/2167/2168/2169/2170/2171/2172/2173/2174/2175/2176/2177/2178/2179/2180/2181/2182/2183/2184/2185/2186/2187/2188/2189/2190/2191/2192/2193/2194/2195/2196/2197/2198/2199/2200/2201/2202/2203/2204/2205/2206/2207/2208/2209/2210/2211/2212/2213/2214/2215/2216/2217/2218/2219/2220/2221/2222/2223/2224/2225/2226/2227/2228/2229/2230/2231/2232/2233/2234/2235/2236/2237/2238/2239/2240/2241/2242/2243/2244/2245/2246/2247/2248/2249/2250/2251/2252/2253/2254/2255/2256/2257/2258/2259/2260/2261/2262/2263/2264/2265/2266/2267/2268/2269/2270/2271/2272/2273/2274/2275/2276/2277/2278/2279/2280/2281/2282/2283/2284/2285/2286/2287/2288/2289/2290/2291/2292/2293/2294/2295/2296/2297/2298/2299/2300/2301/2302/2303/2304/2305/2306/2307/2308/2309/2310/2311/2312/2313/2314/2315/2316/2317/2318/2319/2320/2321/2322/2323/2324/2325/2326/2327/2328/2329/2330/2331/2332/2333/2334/2335/2336/2337/2338/2339/2340/2341/2342/2343/2344/2345/2346/2347/2348/2349/2350/2351/2352/2353/2354/2355/2356/2357/2358/2359/2360/2361/2362/2363/2364/2365/2366/2367/2368/2369/2370/2371/2372/2373/2374/2375/2376/2377/2378/2379/2380/2381/2382/2383/2384/2385/2386/2387/2388/2389/2390/2391/2392/2393/2394/2395/2396/2397/2398/2399/2400/2401/2402/2403/2404/2405/2406/2407/2408/2409/2410/2411/2412/2413/2414/2415/2416/2417/2418/2419/2420/2421/2422/2423/2424/2425/2426/2427/2428/2429/2430/2431/2432/2433/2434/2435/2436/2437/2438/2439/2440/2441/2442/2443/2444/2445/2446/2447/2448/2449/2450/2451/2452/2453/2454/2455/2456/2457/2458/2459/2460/2461/2462/2463/2464/2465/2466/2467/2468/2469/2470/2471/2472/2473/2474/2475/2476/2477/2478/2479/2480/2481/2482/2483/2484/2485/2486/2487/2488/2489/2490/2491/2492/2493/2494/2495/2496/2497/2498/2499/2500/2501/2502/2503/2504/2505/2506/2507/2508/2509/2510/2511/2512/2513/2514/2515/2516/2517/2518/2519/2520/2521/2522/2523/2524/2525/2526/2527/2528/2529/2530/2531/2532/2533/2534/2535/2536/2537/2538/2539/2540/2541/2542/2543/2544/2545/2546/2547/2548/2549/2550/2551/2552/2553/2554/2555/2556/2557/2558/2559/2560/2561/2562/2563/2564/2565/2566/2567/2568/2569/2570/2571/2572/2573/2574/2575/2576/2577/2578/2579/2580/2581/2582/2583/2584/2585/2586/2587/2588/2589/2590/2591/2592/2593/2594/2595/2596/2597/2598/2599/2600/2601/2602/2603/2604/2605/2606/2607/2608/2609/2610/2611/2612/2613/2614/2615/2616/2617/2618/2619/2620/2621/2622/2623/2624/2625/2626/2627/2628/2629/2630/2631/2632/2633/2634/2635/2636/2637/2638/2639/2640/2641/2642/2643/2644/2645/2646/2647/2648/2649/2650/2651/2652/2653/2654/2655/2656/2657/2658/2659/2660/2661/2662/2663/2664/2665/2666/2667/2668/2669/2670/2671/2672/2673/2674/2675/2676/2677/2678/2679/2680/2681/2682/2683/2684/2685/2686/2687/2688/2689/2690/2691/2692/2693/2694/2695/2696/2697/2698/2699/2700/2701/2702/2703/2704/2705/2706/2707/2708/2709/2710/2711/2712/2713/2714/2715/2716/2717/2718/2719/2720/2721/2722/2723/2724/2725/2726/2727/2728/2729/2730/2731/2732/2733/2734/2735/2736/2737/2738/2739/2740/2741/2742/2743/2744/2745/2746/2747/2748/2749/2750/2751/2752/2753/2754/2755/2756/2757/2758/2759/2760/2761/2762/2763/2764/2765/2766/2767/2768/2769/2770/2771/2772/2773/2774/2775/2776/2777/2778/2779/2780/2781/2782/2783/2784/2785/2786/2787/2788/2789/2790/2791/2792/2793/2794/2795/2796/2797/2798/2799/2800/2801/2802/2803/2804/2805/2806/2807/2808/2809/2810/2811/2812/2813/2814/2815/2816/2817/2818/2819/2820/2821/2822/2823/2824/2825/2826/2827/2828/2829/2830/2831/2832/2833/2834/2835/2836/2837/2838/2839/2840/2841/2842/2843/2844/2845/2846/2847/2848/2849/2850/2851/2852/2853/2854/2855/2856/2857/2858/2859/2860/2861/2862/2863/2864/2865/2866/2867/2868/2869/2870/2871/2872/2873/2874/2875/2876/2877/2878/2879/2880/2881/2882/2883/2884/2885/2886/2887/2888/2889/2890/2891/2892/2893/2894/2895/2896/2897/2898/2899/2900/2901/2902/2903/2904/2905/2906/2907/2908/2909/2910/2911/2912/2913/2914/2915/2916/2917/2918/2919/2920/2921/2922/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EST-0016

[illegible]

Technical drawing of a reinforced concrete slab (V21, V23, V25) showing dimensions, reinforcement details, and section views.

Section Views:

- V21:** Shows a cross-section of the slab with a width of 270 mm and a height of 155 mm. The reinforcement consists of 2 N1 bars with a diameter of 20 mm and a center-to-center spacing (C) of 330 mm.
- V23:** Shows a cross-section of the slab with a width of 270 mm and a height of 155 mm. The reinforcement consists of 2 N2 bars with a diameter of 20 mm and a center-to-center spacing (C) of 1170 mm.
- V25:** Shows a cross-section of the slab with a width of 270 mm and a height of 155 mm. The reinforcement consists of 2 N3 bars with a diameter of 20 mm and a center-to-center spacing (C) of 330 mm.

Plan View:

- The plan view shows the layout of the slab with dimensions 580 mm by 580 mm.
- The reinforcement consists of 2 N4 bars with a diameter of 20 mm and a center-to-center spacing (C) of 640 mm.
- The slab is divided into three sections: V21, V23, and V25.
- The distance between the centerlines of the sections is 510 mm.
- The distance from the centerline of the section to the edge of the slab is 59 mm.

Technical drawing of a rectangular plate with the following specifications:

- Overall width: 20
- Overall height: 210
- Inner width: 15
- Inner height: 205
- Hole pattern: 2 rows of 7 holes each (2x75 N7 \varnothing).
- Center-to-center distance between holes: C=235.

[illegible]

ELEMENTO	PDS	BIT (mm)	QUANT	COMP.RIM. UNIT.
V1=V7	(X2)			
	1	20	4	340
	2	20	8	1170
	3	20	4	325
	4	20	4	630
	5	20	8	1140
	6	20	4	640
	7	20	4	630
	8	6,3	500	2335
	9	6,3	32	510
	10	6,3	128	510
V2=V8	(X2)			
	1	20	4	338
	2	20	8	1170
	3	20	4	330
	4	20	4	640
	5	20	4	640
	6	20	4	630
	7	6,3	300	235
	8	6,3	64	510
	9	6,3	32	520
V3=V5	(X2)			
	1	6,3	8	230
	2	10	6	165
	3	6,3	8	120
	4	10	6	455
	5	6,3	4	160
	6	10	12	410
	7	10	6	450
	8	10	6	160
	9	10	6	1055
	10	10	6	555
	11	10	6	1055
	12	6,3	220	165
	13	5	16	510
	14	5	64	510
V4=V6	(X2)			
	1	6,3	8	230
	2	10	12	165
	3	8	4	880
	4	8	8	210
	5	10	6	1055
	6	10	6	565
	7	6,3	132	165
	8	5	16	510

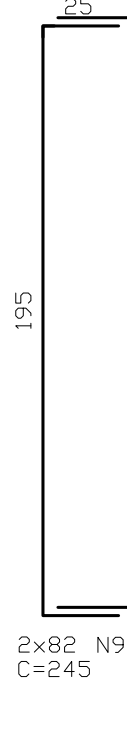
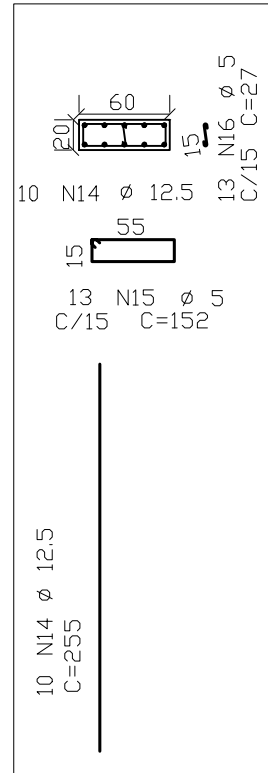
RESUMO ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	653	104
50A	6,3	3822	956
50A	8	52	21
50A	10	401	252
50A	20	439	1097
Peso Total		60B =	104 kg
Peso Total		50A =	2325 kg

R00	EMISSÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

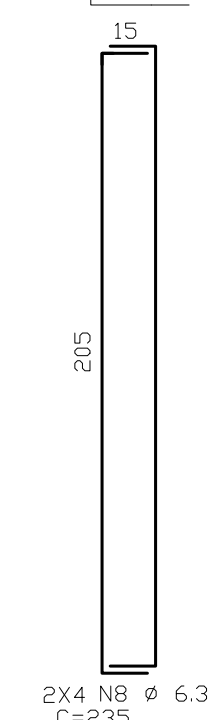
DOCUMENTOS DE REFERÊNCIA:			
<div> <div>  <p> ARQUITECTUS R. Candeia de Aguiar n.º 1401 Im. 10/1000-0000 Bairro: Jardim Botânico Belo Horizonte - MG 31290-000 </p> </div> <div> <p> Ministério da Saúde  FIOCRUZ Fundação Oswaldo Cruz </p> <p> Coordenação Geral de Infraestrutura dos Campi Departamento de Projetos e Obras </p> </div> </div>			
Nº DO CONTRATO 031/2019-COGIC		PROCESSO 25389.000189/2017-19	
COORDENADOR DA META MARLY ZIED		FISCAL DE CONTRATO TAMIRES PAZ	
NOME DO ARQUIVO GED 30000393-03-OSB-C00-EST-DE-1017-R01-DWG			
NOME DO PRÉDIO / ÁREA <div> CAMPUS FIOCRUZ RONDÔNIA BLOCO DE ENSINO E PESQUISA </div>			
Nº PRÉDIO 602	CAMPUS RONDÔNIA	SETOR EDIFICAÇÃO	
O.E. / O.R.		NOME DO ARQUIVO SIENGE	
OBJETIVO CONSTRUÇÃO		TIPO DE PROJETO / SUBTIPO DE PROJETO ESTRUTURA DE CONCRETO	
Nº DA META 2017.027		FASE PROJETO EXECUTIVO	
TÍTULO DA PRANCHA <div> <div> ARM.VIGAS 02-03 NIVEL 1088 </div> <div> DATA NOVEMBRO/2020 ESCALA INDICADA </div> </div>			
COORDENADOR ALEXANDRE LANDIM		COORD-RESPONSÁVEL TÉCNICO HELDER MARTINS	
EQUIPE ARQUITECTUS		COORD-RESPONSÁVEL TÉCNICO HELDER MARTINS	

EST-0017

RAN:HA A1 - 840 x 493 mm



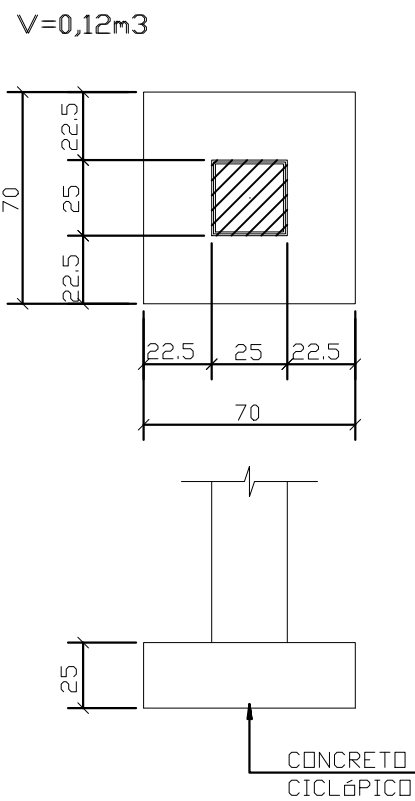
RESUMU ACD CA 50-60			
ACD	BIT (mm)	COMPR (cm)	PESO (kg)
60B	5	48	8
50A	6,3	1144	286
50A	8	538	215
50A	12,5	41	41
50A	16	125	200
50A	20	42	106
50A	25	129	516
Peso Total		60B =	8 kg
Peso Total		50A =	1365 kg



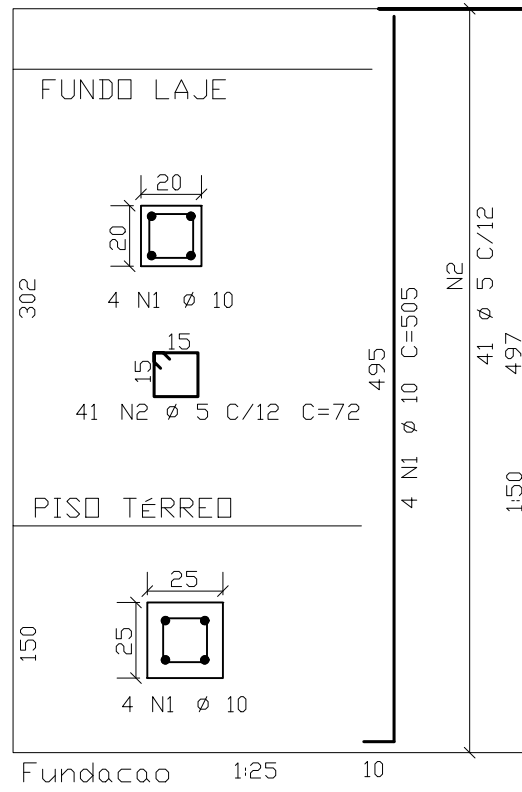
CONCRETO
 $f_{ck} \geq 30 \text{ MPa}$

EST-0018

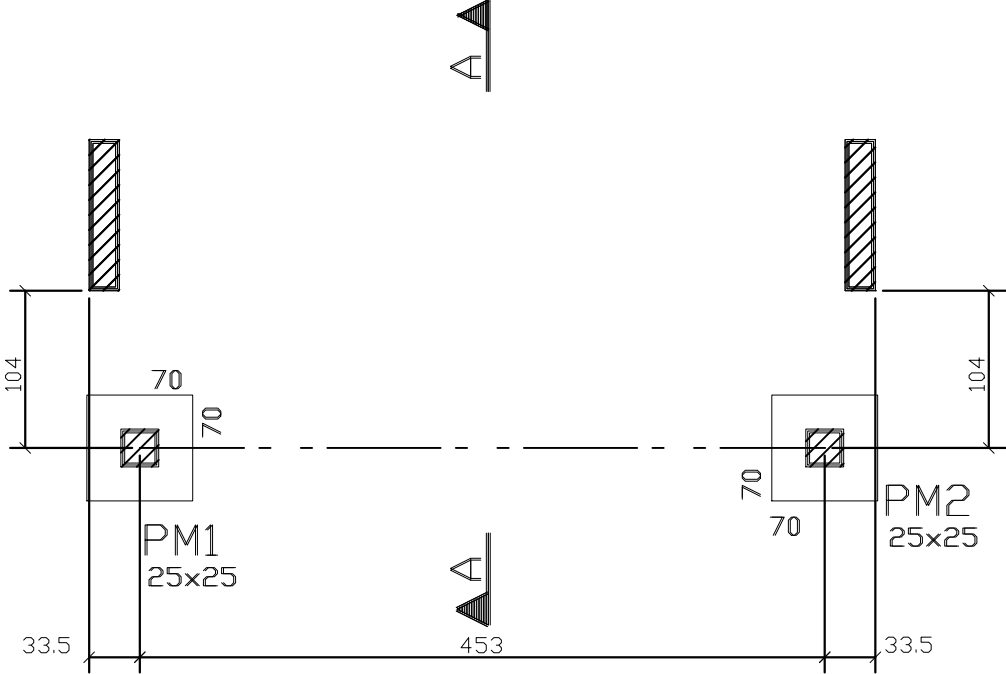
DETALHE FUNDAÇÕES DOS PILARES PM1 E PM2 (esc:1:25)



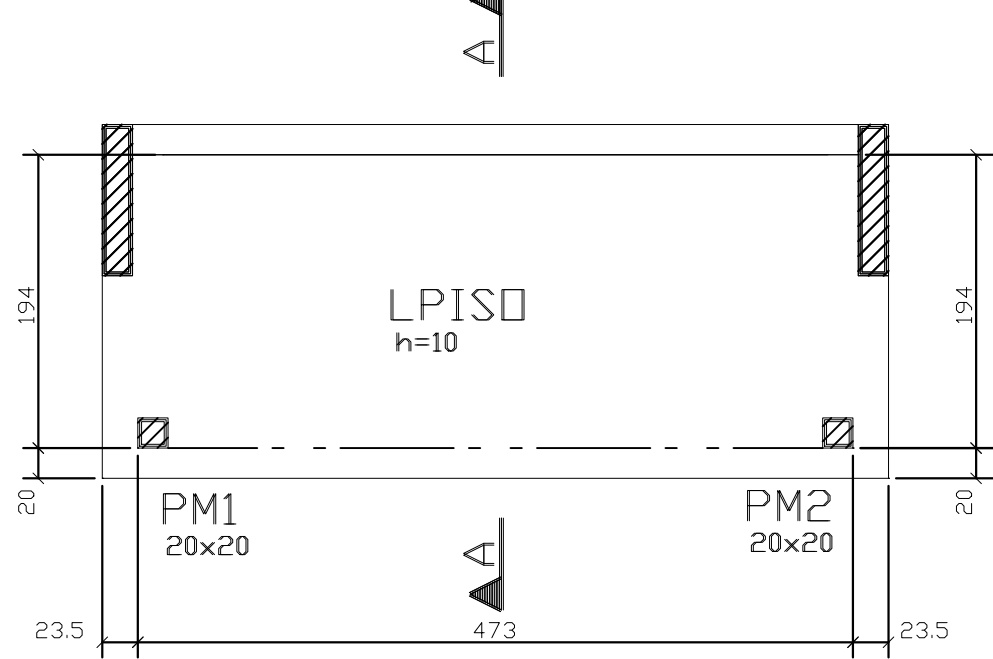
PM1 E PM2 TOPO VIGA



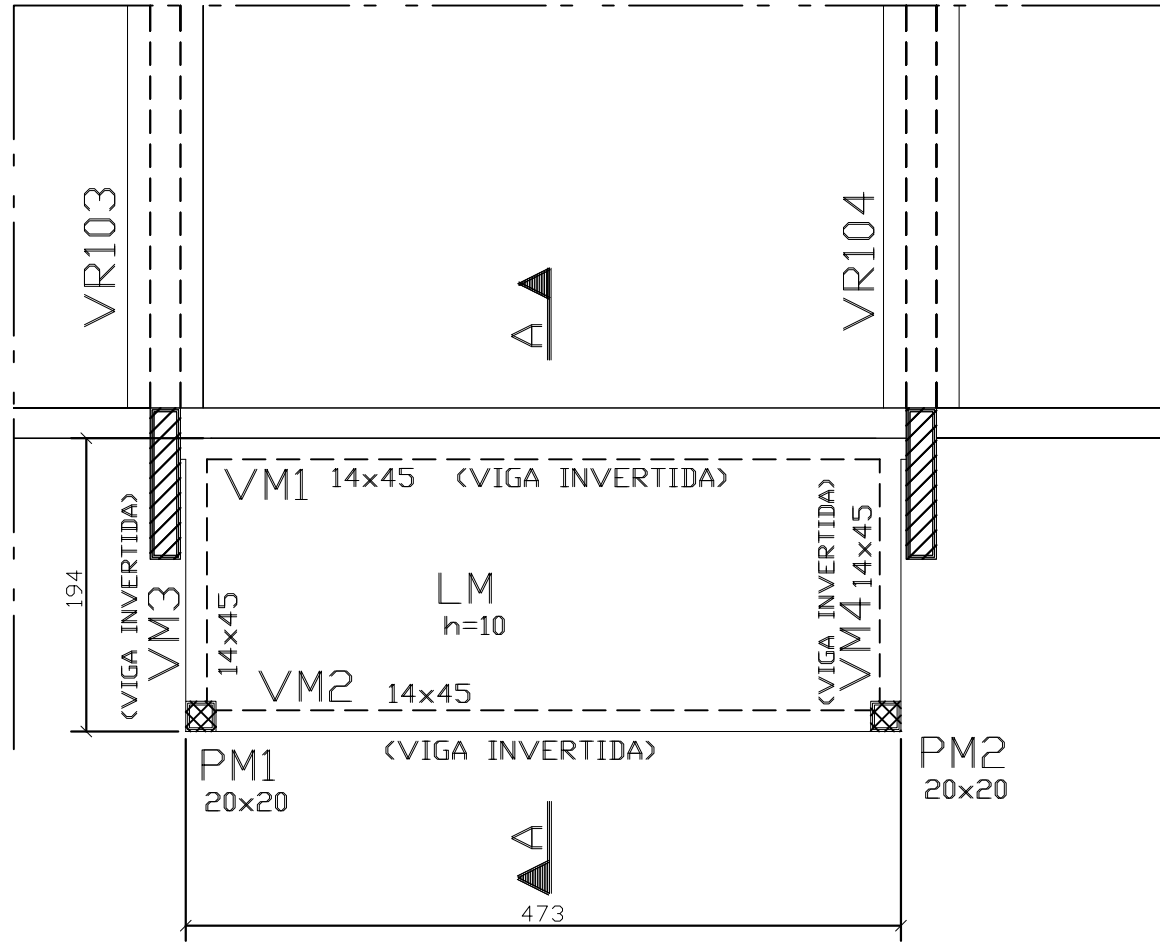
LOCAÇÃO PILARES DA MARQUISE ACESSO AO BIOTERIO (esc:1:50)



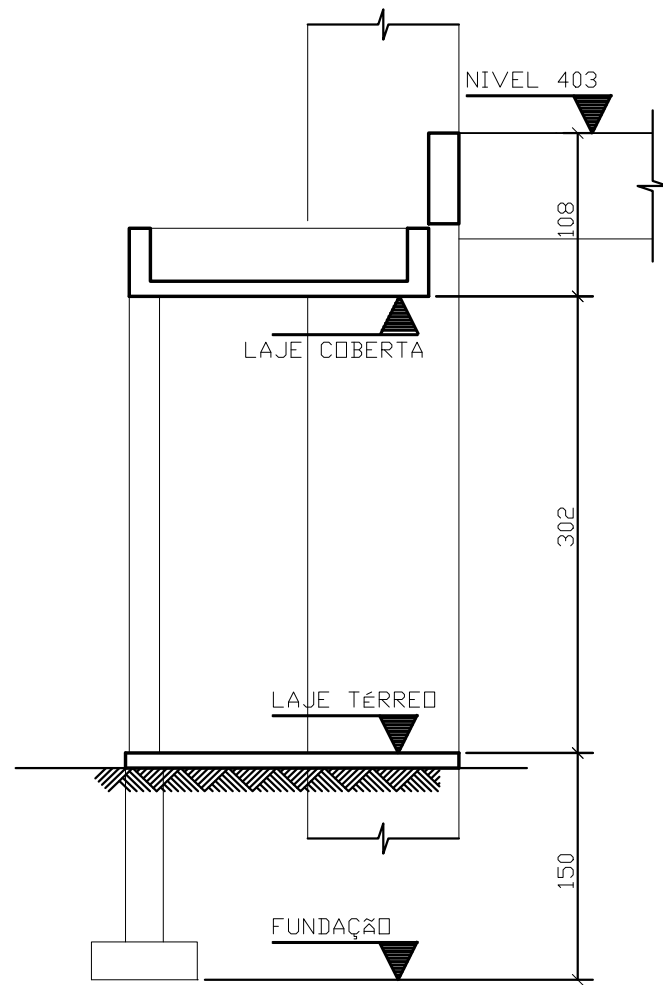
FORMA PISO TERREDO DA MARQUISE ACESSO AO BIOTERIO (esc:1:50)



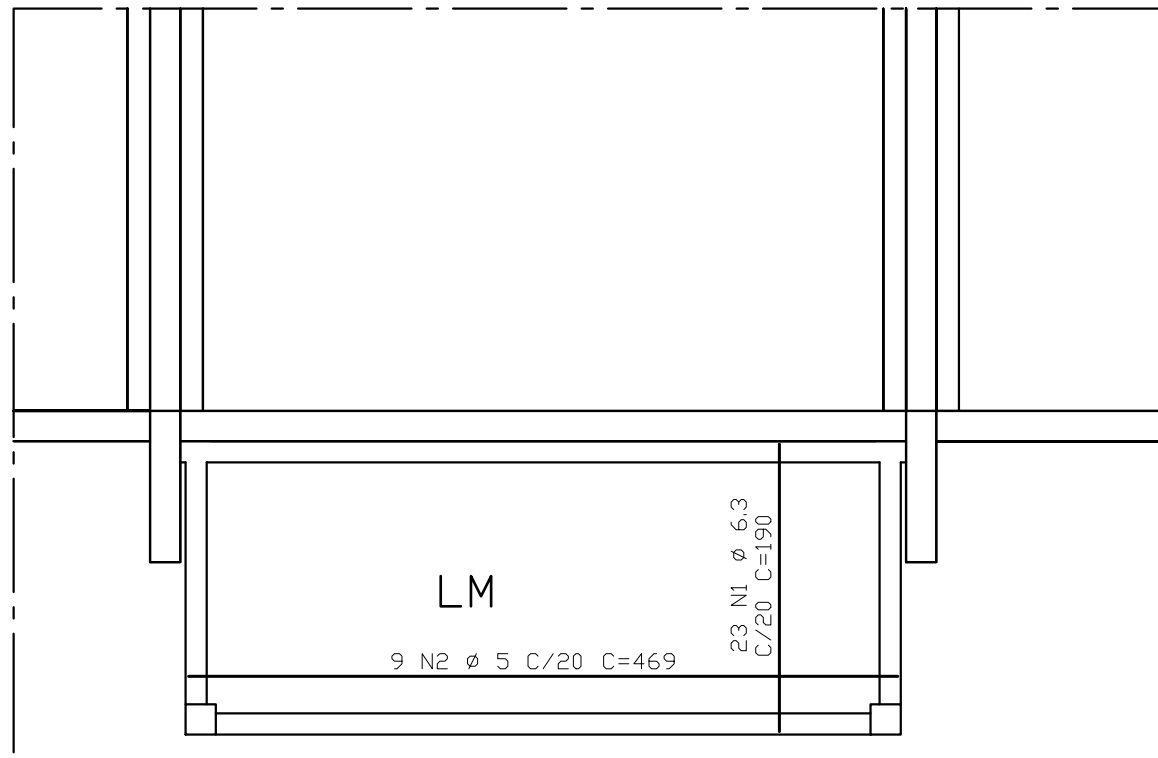
PLANTA DO TETO DA MARQUISE ACESSO AO BIOTERIO (esc:1:50)



CORTE A-A (esc:1:50)



ARM.LAJE DO TETO DA MARQUISE ACESSO AO BIOTERIO (esc:1:50)



NOTAS

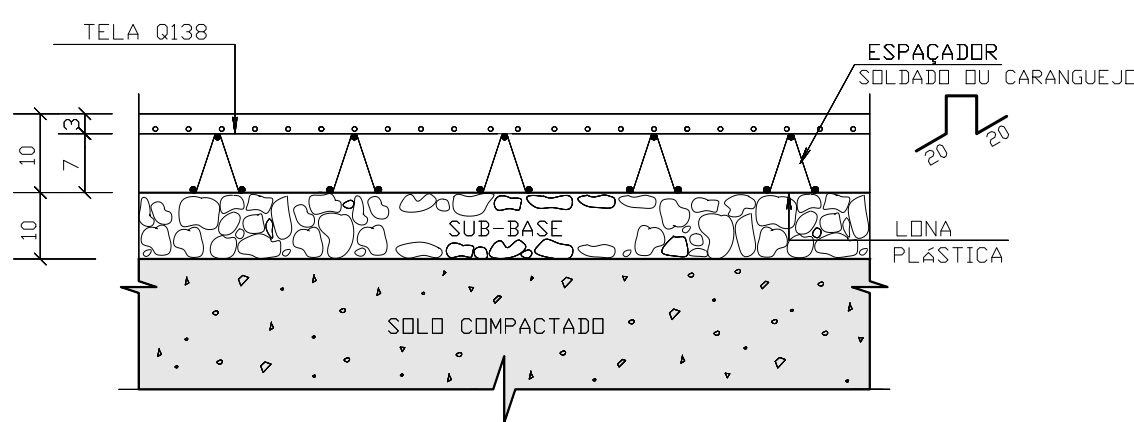
- 1 - CUIDAR P/ O TRANSITO DE OPERÁRIOS NÃO DANIFICAR O POSICIONAMENTO DAS ARMADURAS.
- 2 - PROCEDER O ESPALHAMENTO UNIFORME DO CONCRETO.
- 3 - O ADENSAMENTO DO CONCRETO DEVE SER EXECUTADO, PREFERENCIALMENTE C/ REGUA VIBRATÓRIA. (NÃO É PROIBIDO O USO DE VIBRADOR DE IMERSÃO).
- 4 - A PLACA DEVE SER EXECUTADA EM UMA ÚNICA CAMADA.
- 5 - APÓS O ADENSAMENTO, PROCEDER A REGULARIZAÇÃO E O ACABAMENTO SUPERFICIAL DA PLACA.
- 6 - EXECUTAR CURA INICIAL IMEDIATAMENTE APÓS AS OPERAÇÕES DE ACABAMENTO DO CONCRETO.
- 7 - EXECUTAR CURA COMPLEMENTAR APÓS O FIM DE PEGA DO CONCRETO. A CURA COMPLEMENTAR DEVE PROLONGAR-SE ATÉ QUE O CONCRETO TENHA ALCANÇADO PELO MENOS 75% DE SUA RESISTÊNCIA FINAL.
- 8 - AS JUNTAS SERRADAS DEVERÃO SER FEITAS APÓS PERÍODO DE 8 A 12 HORAS DEPOIS DE CONCLUÍDA A CONCRETAGEM DA PLACA.
- 9 - O PREENCHIMENTO DAS JUNTAS COM SELANTE DEVE SER FEITO ENTRE 30 A 45 DIAS APÓS A CONCRETAGEM DO PISO.

SUB-BASE: Pó de PEDRA COMPACTADO
G.C. > 98% DO PROCTOR INTERMEDIÁRIO
CBR > 20%.

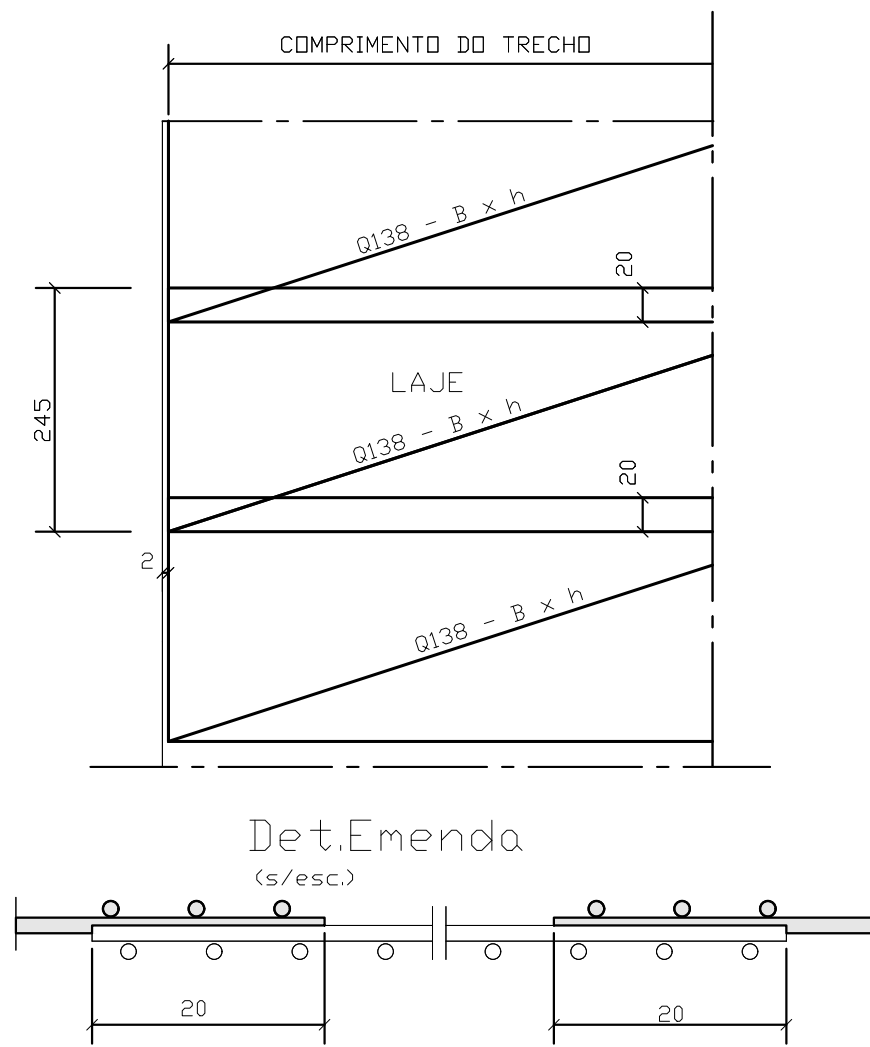
SOLDO: COMPACTADO
G.C. > 98% DO PROCTOR NORMAL
CBR > 10%.

NOTA: OPCIONALMENTE A SUB-BASE PODERÁ SER EXECUTADA COM CONCRETO MAGRO SECO, COMPACTADO COM RÔLO. (CONSUMO DE CIMENTO POR METRO CÚBICO DE APROXIMADAMENTE 150 Kg).

SEÇÃO TRANSVERSAL DO PISO (esc: 1:10)

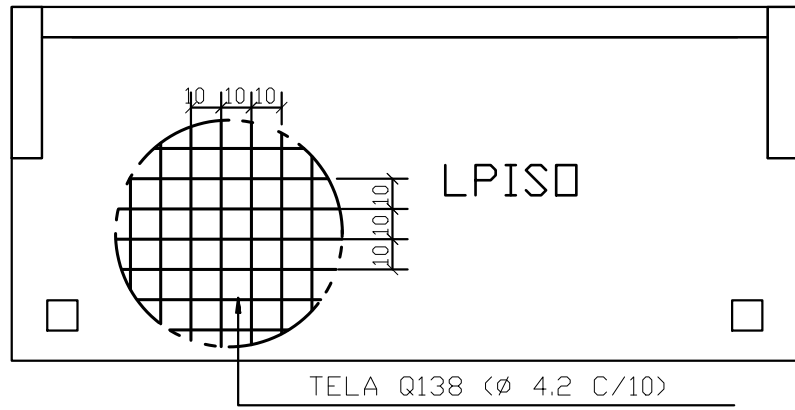


DET. PADRÃO TRASPASSE TELA (Ø=138) PISO (s/esc.)



PESO DE TELA = 26 Kg

ARM.LAJE PISO TERREDO DA MARQUISE ACESSO AO BIOTERIO (esc:1:50)

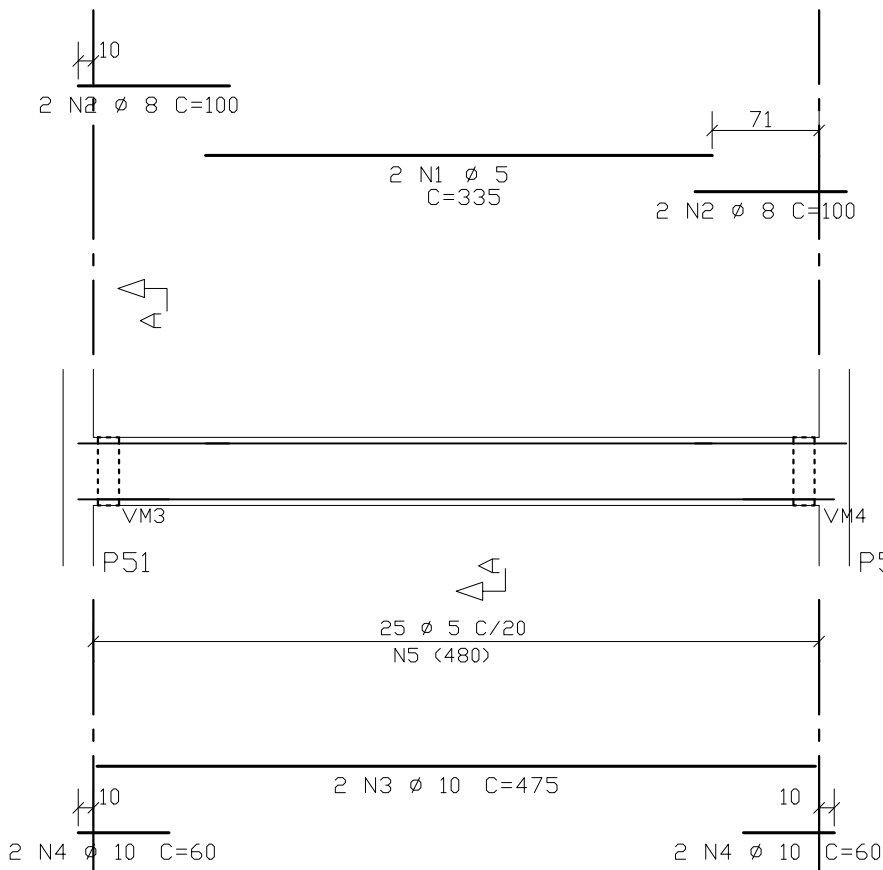


ELEMENTO	POS	BIT (mm)	QUANT	COMPRIM. UNIT.
VM1	1	5	2	335
	2	8	4	100
	3	10	2	475
	4	10	4	60
VM2	1	5	2	290
	2	8	4	125
	3	10	2	510
	4	10	23	110
VM3=VM4	(X2)	1	8	4
	2	8	4	220
	3	5	18	225
	4	5	18	110
PM1 E PM2	(X2)	1	10	8
	2	10	8	505
	3	5	82	72
	4	5	82	72
ARM.LAJE MARQUISE	1	6.3	23	190
	2	5	9	469

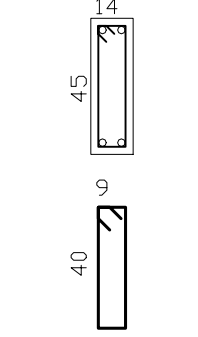
RESUMO AÇO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	186	30
50A	6.3	44	11
50A	8	27	11
50A	10	63	39
Peso Total	60B =		30 kg
Peso Total	50A =		61 kg

CONCRETO
 $f_{ck} \geq 30$ MPa

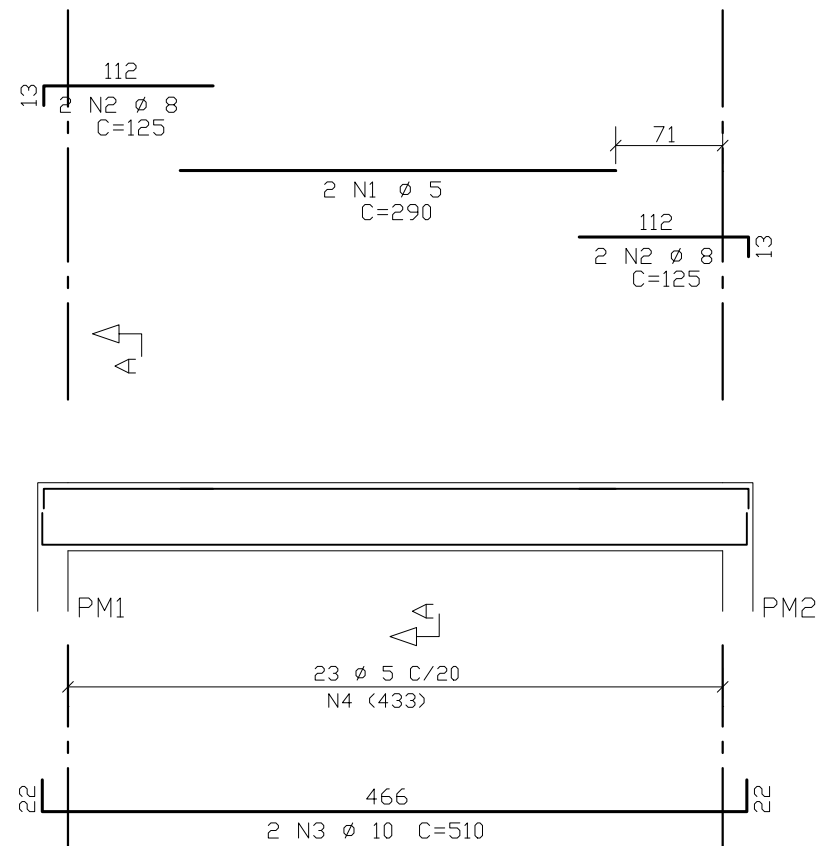
VM1 14X45



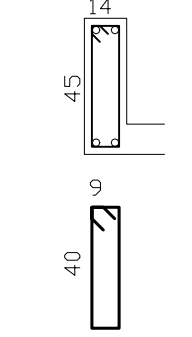
Corte A



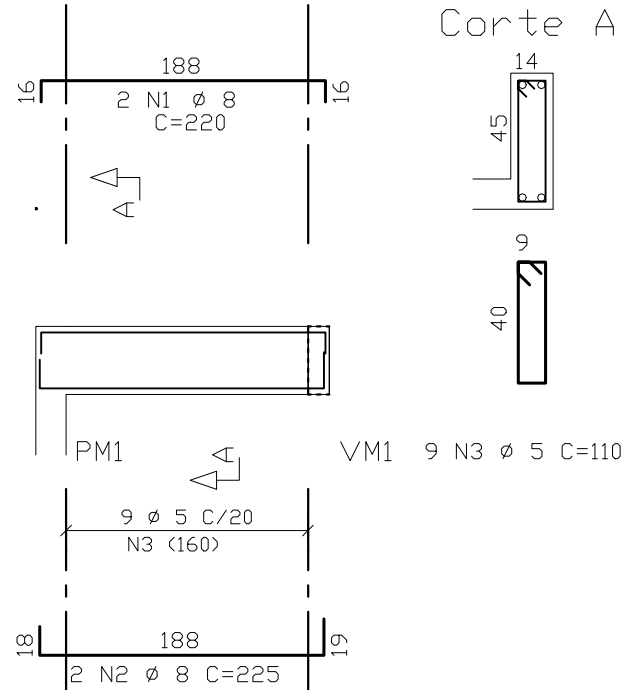
VM2 14X45



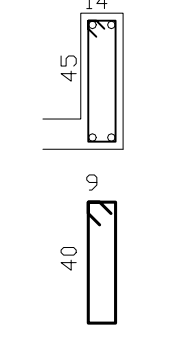
Corte A



VM3=VM4 14X45





Corte A



R00	EMISSÃO INICIAL	HELDER	AMÉRICO FARIAS	22/09/2020
R01	REVISÃO	HELDER	AMÉRICO FARIAS	27/11/2020
REV	DESCRIÇÃO	REVISADO POR	RESP. TÉCNICO	DATA

DOCUMENTOS DE REFERÊNCIA:

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	Nº DO CONTRATO 031/2019-COGIC		
	PROCESSO 25389.000/189/2017-19		
	COORDENADOR DA META MARLY ZIED		FISCAL DE CONTRATO TAMARES PAZ
	NOME DO ARQUIVO GED 30000393-03-OS8-C00-EST-DE-1019-R01.DWG		
	NOME DO PRÉDIO / ÁREA CAMPUS RONDÔNIA BLOCO DE ENSINO E PESQUISA		
	Nº PRÉDIO 602	CAMPUS RONDÔNIA	SETOR EDIFICAÇÃO
OBJETIVO CONSTRUÇÃO		Nº DA META 2017.027	FASE PROJETO EXECUTIVO
TÍTULO DA PRANCHA MARQUISE ACESSO BIOTERIO		DATA NOVEMBRO/2020	
COORDENADOR ALEXANDRE LANDIM		RESPONSÁVEL TÉCNICO AMÉRICO FARIAS	
EQUIPE ARCHITECTUS		CO-RESPONSÁVEL TÉCNICO HELDER MARTINS	

EST-0019