

Nome	Seção	Elevação	Nível
V1	13x25	(cm)	0
V2	13x25	(cm)	0
V3	13x40	(cm)	0
V4	13x50	(cm)	0
V5	13x25	(cm)	0
V6	13x50	(cm)	0
V7	13x25	(cm)	0
V8	13x50	(cm)	0

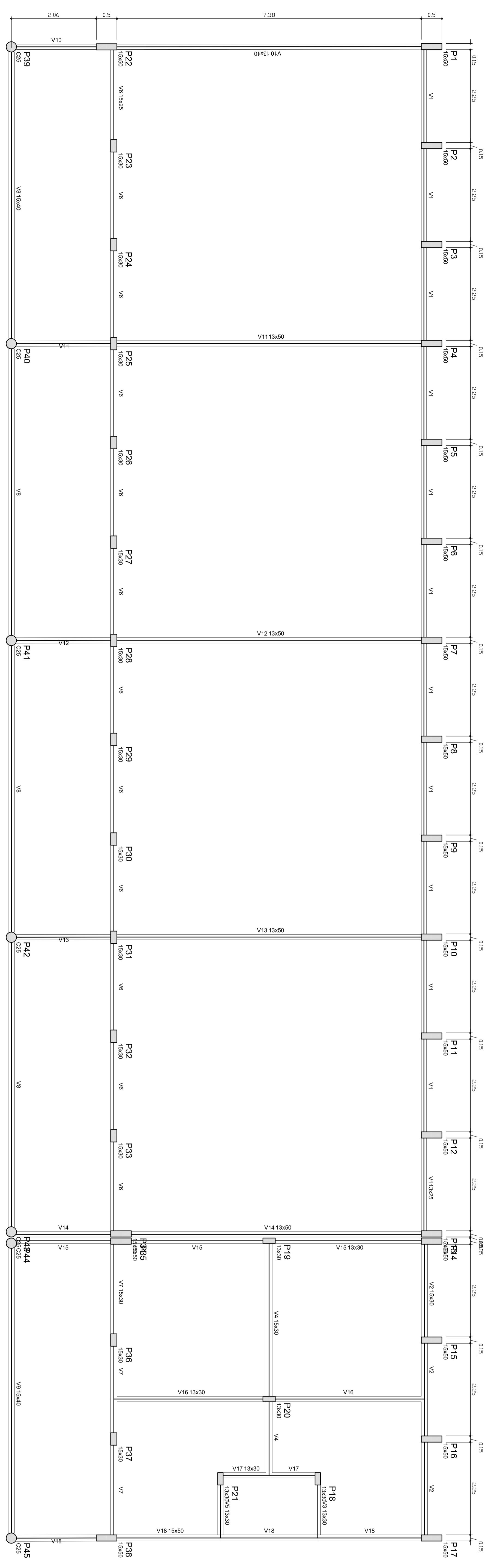
Características dos materiais			
Ida	Eca	Eca	
(kg/1cm³)	(kg/1cm³)	(kg/1cm³)	
250		238000	

**1** FORMAS DO PAVIMENTO NÍVEL 000  
ESCALA 1/50

<b>PROJETO PADRÃO - FNDE</b>	
PROPRIETÁRIO:	
ENDEREÇO:	
MUNICÍPIO - UF:	
PROPRIETÁRIO:	
RESP. TÉCNICO:	CREA
AUTOR DO PROJETO:	CAU
D.L.F.O.	CREA
RA	
OBSERVAÇÕES:	
<b>ESCOLA 12 SALAS DE AULA</b> <b>PROJETO DE ESTRUTURA</b>	
COORDENAÇÃO	BLOCO B: PEDAGÓGICO
CGEST - Coordenação Geral de Infraestrutura Educacional	FORMAS NÍVEL 000
REVISÃO	R.03
ESCALA	INDICAÇÃO
DATA EMISSÃO	MAIO/2014
PRONÓIA	07/42







**1** FORMAS DO PAVIMENTO NÍVEL 000  
ESCALA 1/50

Nome	Quantidade	Volume	Área
V1	0	0,0000	0,0000
V2	0	0,0000	0,0000
V3	0	0,0000	0,0000
V4	0	0,0000	0,0000
V5	0	0,0000	0,0000
V6	0	0,0000	0,0000
V7	0	0,0000	0,0000
V8	0	0,0000	0,0000
V9	0	0,0000	0,0000
V10	0	0,0000	0,0000
V11	0	0,0000	0,0000
V12	0	0,0000	0,0000
V13	0	0,0000	0,0000
V14	0	0,0000	0,0000
V15	0	0,0000	0,0000
V16	0	0,0000	0,0000
V17	0	0,0000	0,0000
V18	0	0,0000	0,0000
V19	0	0,0000	0,0000
V20	0	0,0000	0,0000
V21	0	0,0000	0,0000
V22	0	0,0000	0,0000
V23	0	0,0000	0,0000
V24	0	0,0000	0,0000
V25	0	0,0000	0,0000
V26	0	0,0000	0,0000
V27	0	0,0000	0,0000
V28	0	0,0000	0,0000
V29	0	0,0000	0,0000
V30	0	0,0000	0,0000
V31	0	0,0000	0,0000
V32	0	0,0000	0,0000
V33	0	0,0000	0,0000
V34	0	0,0000	0,0000
V35	0	0,0000	0,0000
V36	0	0,0000	0,0000
V37	0	0,0000	0,0000
V38	0	0,0000	0,0000

**FNDE** FUNDO NACIONAL DE DESENVOLVIMENTO EDUCACIONAL

**BRASIL** GOVERNOS UNIDOS

PROJETO PADRÃO - FNDE

PROJETO DE ESTRUTURA

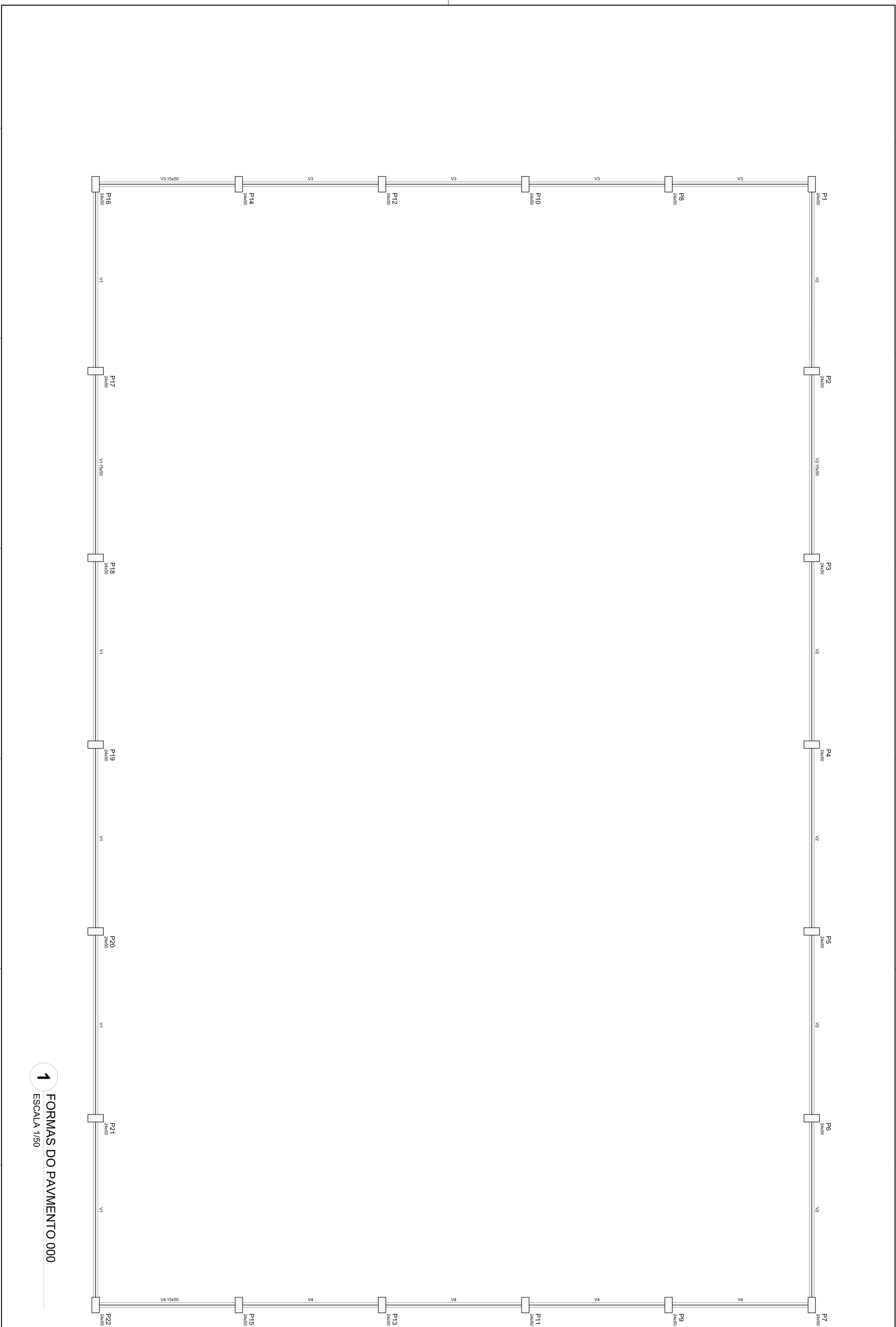
ESCOLA 12 SALAS DE AULA

BLOCO 1 - PEDAGÓGICO

FORMAS NÍVEL 000

SCF

31/12



Nome	Estado	Material
V1	15000	0
V2	15000	0
V3	15000	0
V4	15000	0

Escudo - Características dos materiais			
Nome	Estado	Material	Quantidade
V1	15000	0	22000
V2	15000	0	22000
V3	15000	0	22000
V4	15000	0	22000

**FNDE** Fundo Nacional de Desenvolvimento da Educação  
**BRASIL** Ministério da Educação

**PROJETO PADRÃO - FNDE**

MUNICÍPIO - UF

PROFESSOR

ENFERMEIRO

PROPRIETÁRIO

RESP. TÉCNICO

CAU / CREA

CAU / CREA

PROFESSOR

ENFERMEIRO

PROPRIETÁRIO

RESP. TÉCNICO

CAU / CREA

CAU / CREA

PROFESSOR

ENFERMEIRO

PROPRIETÁRIO

RESP. TÉCNICO

CAU / CREA

CAU / CREA

PROFESSOR

ENFERMEIRO

PROPRIETÁRIO

RESP. TÉCNICO

CAU / CREA

**1** FORMAS DO PAVIMENTO 000  
 ESCALA 1/50

**ESCOLA 12 SALAS - QUADRA**  
**PROJETO DE ESTRUTURA**  
 BLOCO G: QUADRA COBERTA  
 FORMAS DO PAVIMENTO 000  
**SCF**  
 37/42

Nome	Estado	UF
BRASIL	BRASIL	BRASIL

Coordenadas do terreno

LAJADO

LAJADO

LAJADO

LAJADO

P1  
ZANHO

P2  
ZANHO

P3  
ZANHO

P4  
ZANHO

P5  
ZANHO

P6  
ZANHO

P7  
ZANHO

P8  
ZANHO

P9  
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P10  
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P11  
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P12  
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P13  
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P14  
ZANHO

P15  
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P16  
ZANHO

P22  
ZANHO

P17  
ZANHO

P18  
ZANHO

P19  
ZANHO

P20  
ZANHO

P21  
ZANHO

1 FORMAS DO PAVIMENTO 280  
ESCALA 1/50

**FUDE** Fundação Nacional de Fomento  
Ministério da Educação

**BRASIL** Ministério da Educação

**PROJETO PADRÃO - FNDE**

MUNICÍPIO - UF

PROFESSOR

ENFERMEIRO

PROFESSOR

RESP. TÉCNICO

CAU / CREA

CAU / CREA

DUFO

OSSE/AV/02/ES

CONSTITUIÇÃO

PROJETO DE ESTRUTURA

ESCOLA 12 SALAS - QUADRA

BLOCO G - QUADRA COBERTA

FORMAS DO PAVIMENTO 280

SCF

PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

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PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

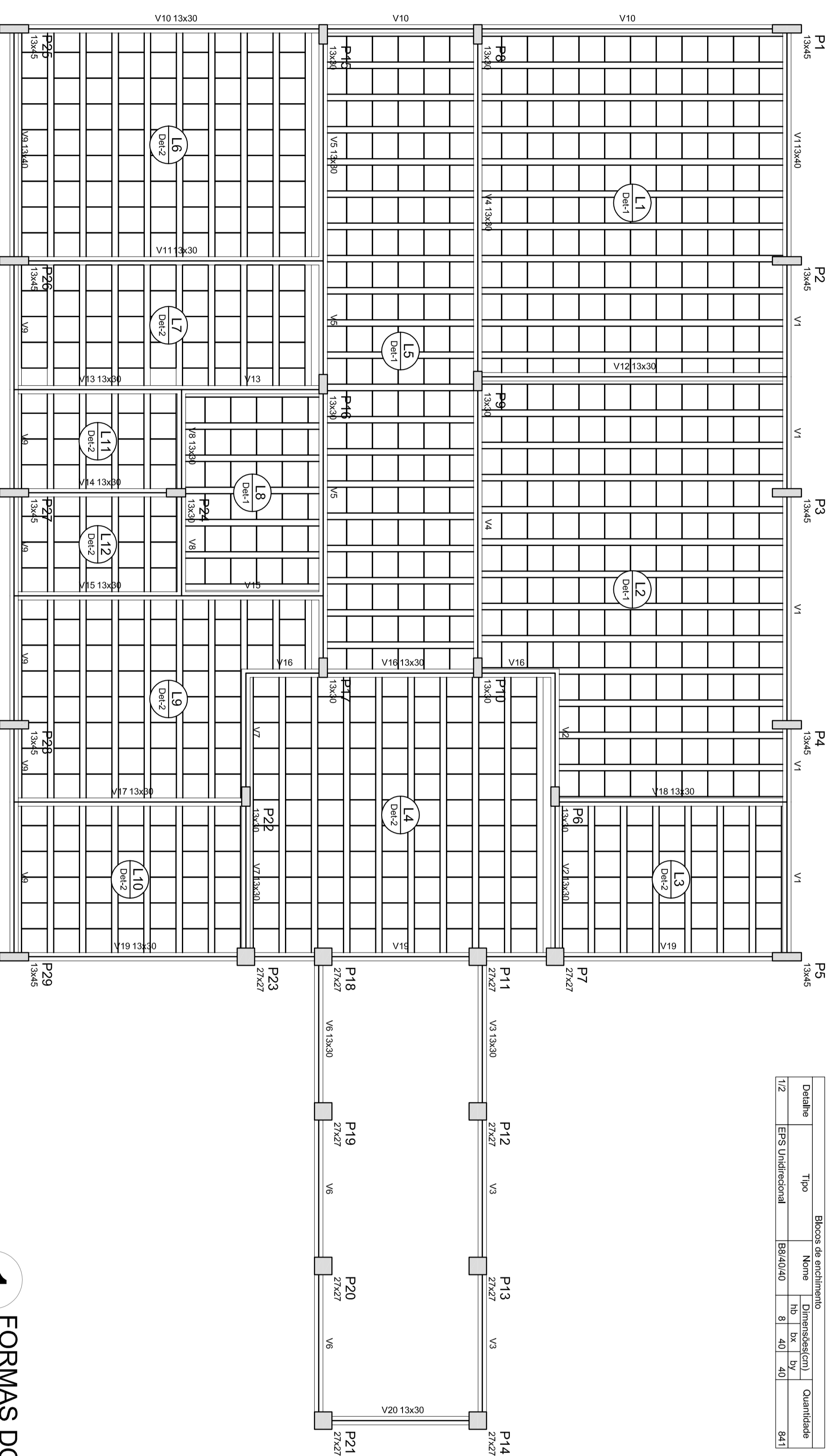
PROJETO - ITAIPAVA

PROJETO - ITAIPAVA

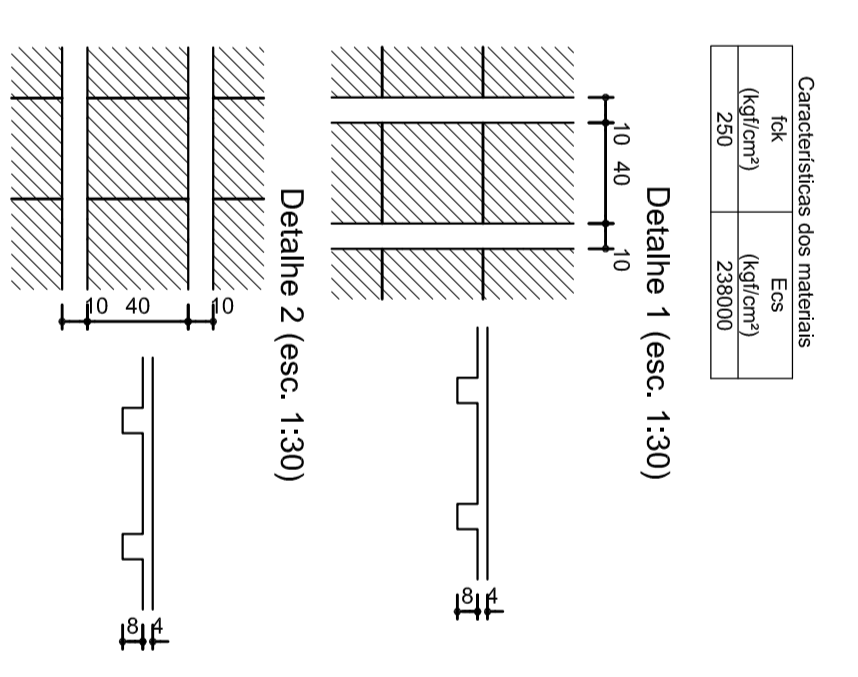
PROJETO - ITAIPAVA



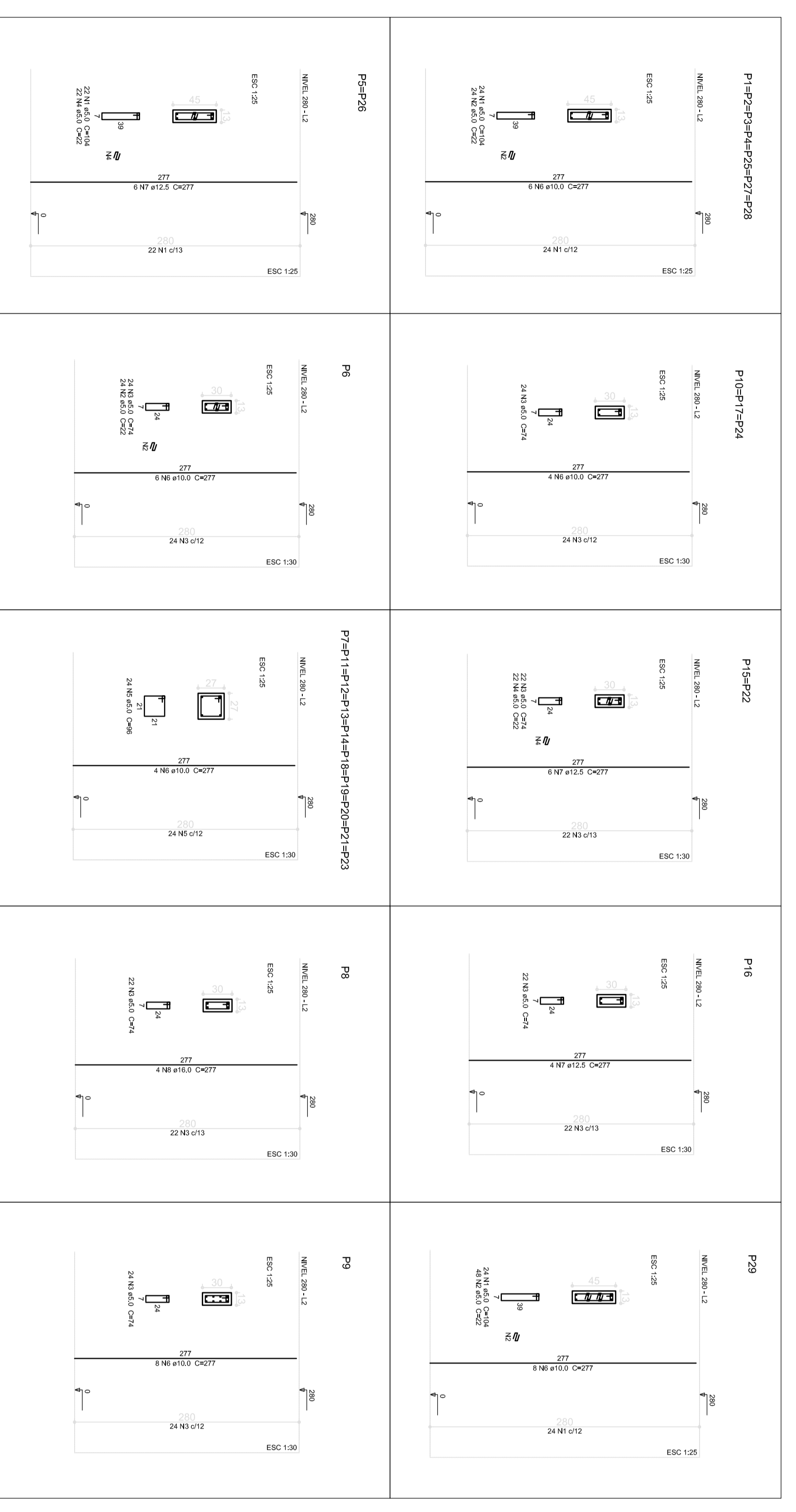




Vigas			
Nome	Solo	Embalagem	Matr
V1	13x40	0	200
V2	13x30	0	200
V3	13x20	0	200
V4	13x20	0	200
V5	13x20	0	200
V6	13x20	0	200
V7	13x20	0	200
V8	13x20	0	200
V9	13x20	0	200
V10	13x20	0	200
V11	13x20	0	200
V12	13x20	0	200
V13	13x20	0	200
V14	13x20	0	200
V15	13x20	0	200
V16	13x20	0	200
V17	13x20	0	200
V18	13x20	0	200
V19	13x20	0	200
V20	13x20	0	200

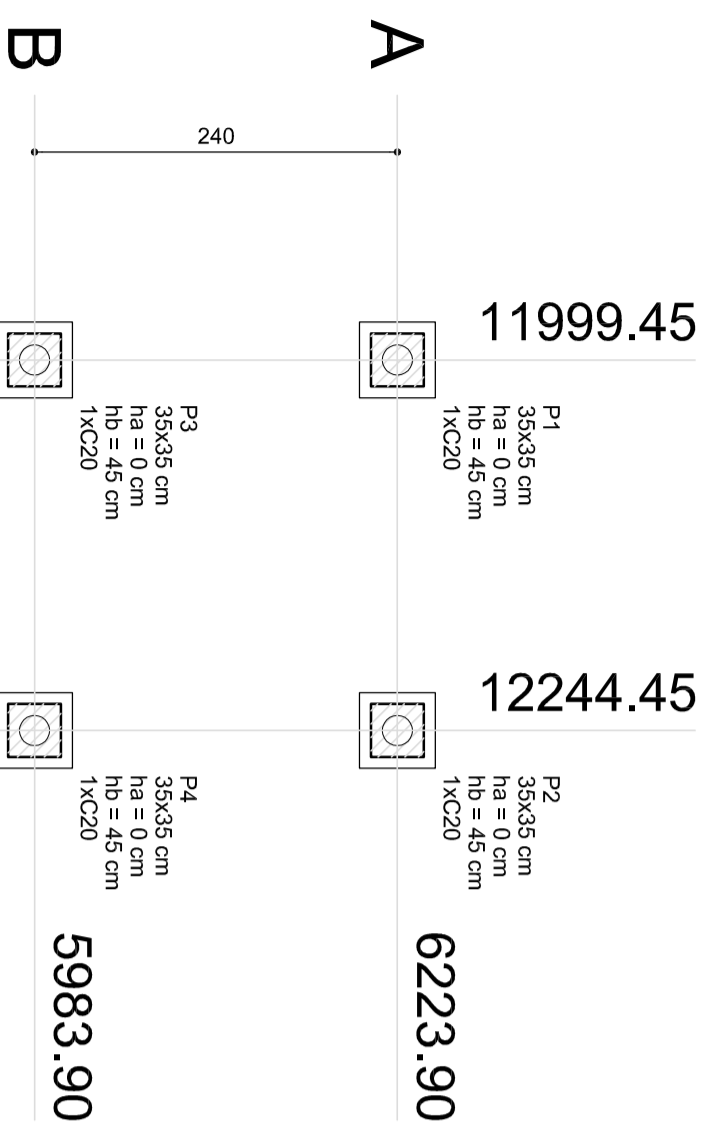


## 1 FORMAS DO PAVIMENTO NÍVEL 280 ESCALA 1/50



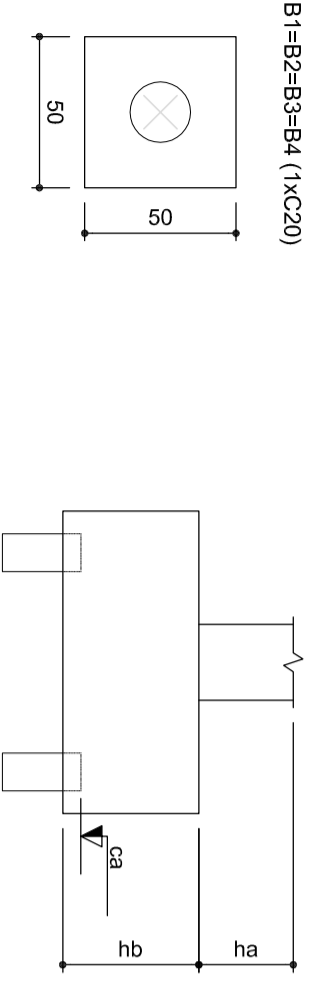
**Resumo do aço**

ACO	DIM	C/OTPL	PRESO
CA80	10,0	321,4	198,3
CA80	12,5	71,8	74,7
CA80	15,0	7,2	4,4
CA80	17,0	7,2	108,1
CA80	20,0		
CA80	25,0		
CA80	28,0		
CA80	32,0		
CA80	36,0		
CA80	40,0		
CA80	45,0		
CA80	50,0		
CA80	56,0		
CA80	63,0		
CA80	70,0		
CA80	78,0		
CA80	86,0		
CA80	95,0		
CA80	105,0		
CA80	116,0		
CA80	128,0		
CA80	141,0		
CA80	155,0		
CA80	170,0		
CA80	186,0		
CA80	203,0		
CA80	221,0		
CA80	240,0		
CA80	260,0		
CA80	281,0		
CA80	303,0		
CA80	326,0		
CA80	350,0		
CA80	375,0		
CA80	401,0		
CA80	428,0		
CA80	456,0		
CA80	485,0		
CA80	515,0		
CA80	546,0		
CA80	578,0		
CA80	611,0		
CA80	645,0		
CA80	680,0		
CA80	716,0		
CA80	753,0		
CA80	791,0		
CA80	830,0		
CA80	870,0		
CA80	911,0		
CA80	953,0		
CA80	996,0		
CA80	1040,0		
CA80	1085,0		
CA80	1131,0		
CA80	1178,0		
CA80	1226,0		
CA80	1275,0		
CA80	1325,0		
CA80	1376,0		
CA80	1428,0		
CA80	1481,0		
CA80	1535,0		
CA80	1590,0		
CA80	1646,0		
CA80	1703,0		
CA80	1761,0		
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CA80	2465,0		
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CA80	2606,0		
CA80	2678,0		
CA80	2751,0		
CA80	2825,0		
CA80	2900,0		
CA80	2976,0		
CA80	3053,0		
CA80	3131,0		
CA80	3210,0		
CA80	3290,0		
CA80	3371,0		
CA80	3453,0		
CA80	3536,0		
CA80	3620,0		
CA80	3705,0		
CA80	3791,0		
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CA80	3966,0		
CA80	4055,0		
CA80	4145,0		
CA80	4236,0		
CA80	4328,0		
CA80	4421,0		
CA80	4515,0		
CA80	4610,0		
CA80	4706,0		
CA80	4803,0		
CA80	4901,0		
CA80	5000,0		
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CA80	5936,0		
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CA80	6155,0		
CA80	6266,0		
CA80	6378,0		
CA80	6491,0		
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CA80	7925,0		
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CA80	8435,0		
CA80	8565,0		
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CA80	8828,0		
CA80	8961,0		
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CA80	9503,0		
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CA80	10346,0		
CA80	10490,0		
CA80	10635,0		
CA80	10781,0		
CA80	10928,0		
CA80	11076,0		
CA80	11225,0		
CA80	11375,0		
CA80	11526,0		
CA80	11678,0		
CA80	11831,0		
CA80	11985,0		
CA80	12140,0		
CA80	12296,0		
CA80	12453,0		
CA80	12611,0		
CA80	12770,0		
CA80	12930,0		
CA80	13091,0		
CA80	13253,0		
CA80	13416,0		
CA80	13580,0		
CA80	13745,0		
CA80	13911,0		
CA80	14078,0		
CA80	14246,0		
CA80	14415,0		
CA80	14585,0		
CA80	14756,0		
CA80	14928,0		
CA80	15101,0		
CA80	15275,0		
CA80	15450,0		
CA80	15626,0		
CA80	15803,0		
CA80	15981,0		
CA80	16160,0		
CA80	16340,0		
CA80	16521,0		
CA80	16703,0		
CA80	16886,0		
CA80	17070,0		
CA80	17255,0		
CA80	17441,0		
CA80	17628,0		
CA80	17816,0		
CA80	18005,0		
CA80	18195,0		
CA80	18386,0		
CA80	18578,0		
CA80	18771,0		
CA80	18965,0		
CA80	19160,0		
CA80	19356,0		
CA80	19553,0		
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CA80	19950,0		
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CA80	26156,0		
CA80	26385,0		
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CA80	27311,0		
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CA80	36635,0		
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CA80	38000,0		
CA80	38276,0		



# 1 PLANTA DE LOCAÇÃO

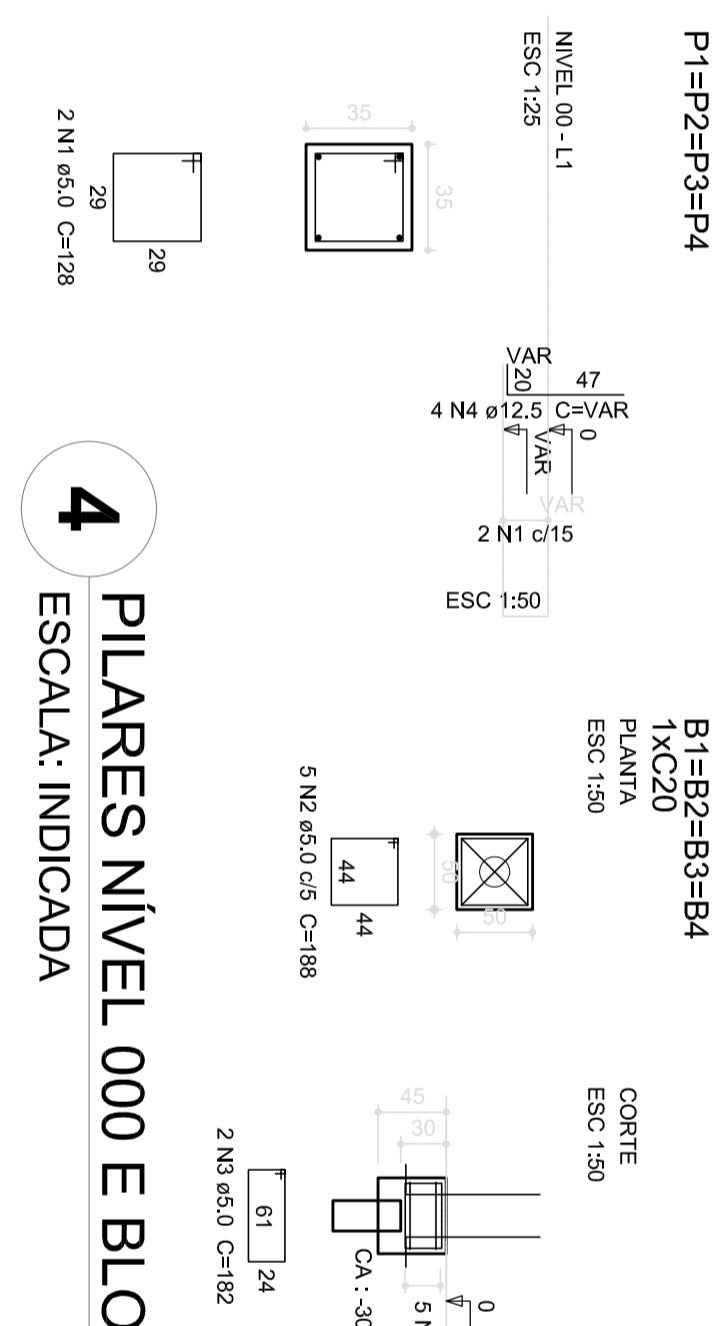
ESCALA 1/50



# 2 BLOCOS DE FUNDAÇÃO

ESCALA: 1/25

Nome	Seção	X (cm)	Y (cm)	Carga Máx. (kgf)	Carga Min. (kgf)	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	ne	Estaca	ca (cm)
P1	35x35	11999.45	6223.90	1000	900	50	50	0	45	1	C20	-30
P2	35x35	12244.45	6223.90	1000	900	50	50	0	45	1	C20	-30
P3	35x35	11999.45	5983.90	1000	900	50	50	0	45	1	C20	-30
P4	35x35	12244.45	5983.90	1000	900	50	50	0	45	1	C20	-30



# 4 PILARES NÍVEL 000 E BLOCOS DE FUNDAÇÃO

ESCALA: INDICADA

Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	12,5	15,1	14,5
CA60	5,0	62,4	9,6
PESO TOTAL (kg)			14,5

Volume de concreto (C-25) = 0,15 m³  
Volume de concreto (C-20) = 0,43 m³  
Área de forma = 5,28 m²

# 5 PILARES NÍVEL 23

ESCALA INDICADA

Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	12,5	3,2	3,1
CA60	5,0	10,3	1,6
PESO TOTAL (kg)			3,1

Volume de concreto (C-25) = 0,11 m³  
Área de forma = 1,29 m²

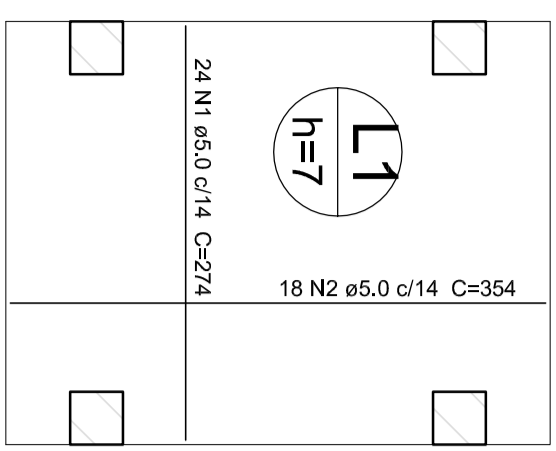
Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA60	5,0	129,5	19,9
PESO TOTAL (kg)			19,9

Volume de concreto (C-25) = 0,58 m³  
Área de forma = 8,32 m²

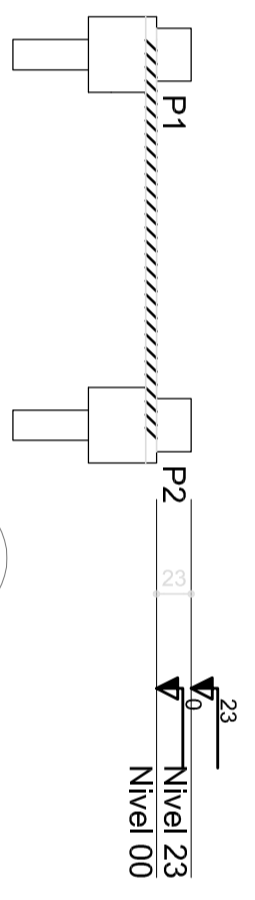
# 3 LAJE NÍVEL 000

SEM ESCALA



# 6 CORTE AA

SEM ESCALA



PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FND E DESENVOLVIMENTO DA EDUCAÇÃO

ENDEREÇO: MINISTÉRIO DA EDUCAÇÃO

MUNICÍPIO - UF: GOV. DO RIO DE JANEIRO - RJ

PROPRIETÁRIO: CREA

RESP. TÉCNICO: CREA

AUTOR DO PROJETO: CAU

DUFO: CREA

COORDENAÇÃO: PASSARELA M1

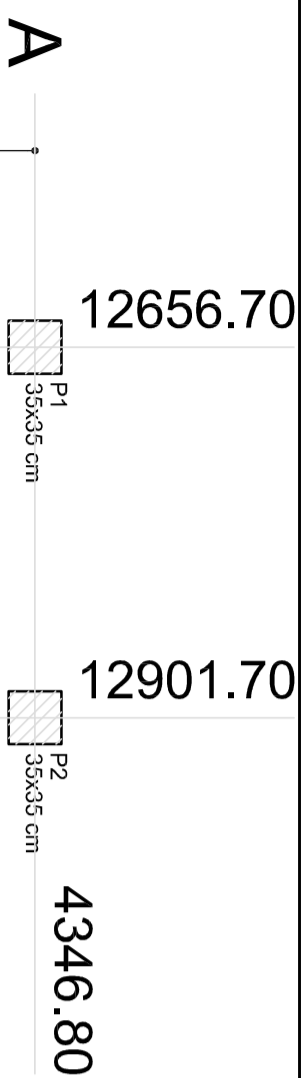
CGEST - Coordenação Geral de Infraestrutura Educacional

PROJETO DE ESTRUTURA

ESCALA: INDICADA

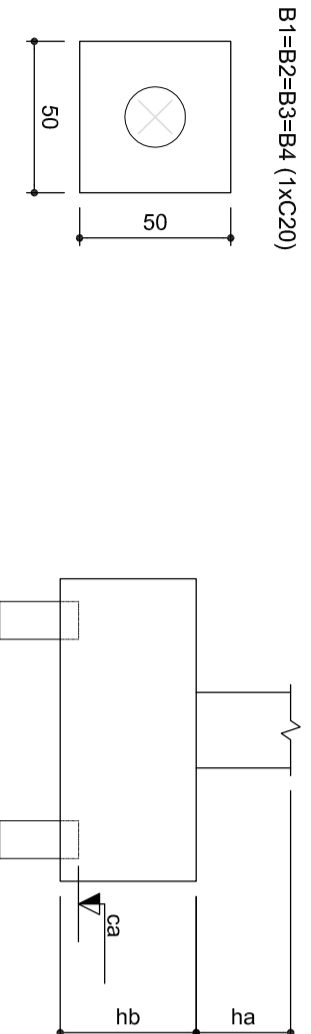
DATA EMISSÃO: MAIO/2014

FRANCHA: 401/42



## 1 PLANTA DE LOCAÇÃO

ESCALA: 1/50

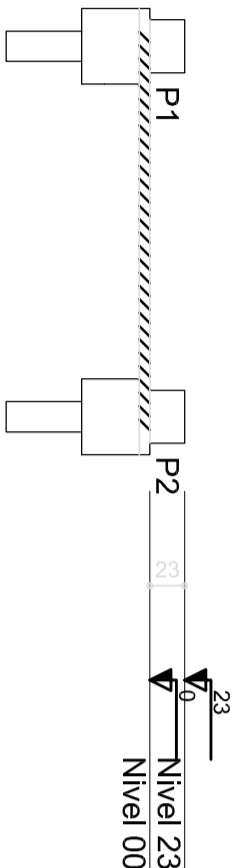


B1=B2=B3=B4 (1xC20)

## 2 BLOCOS DE FUNDAÇÃO

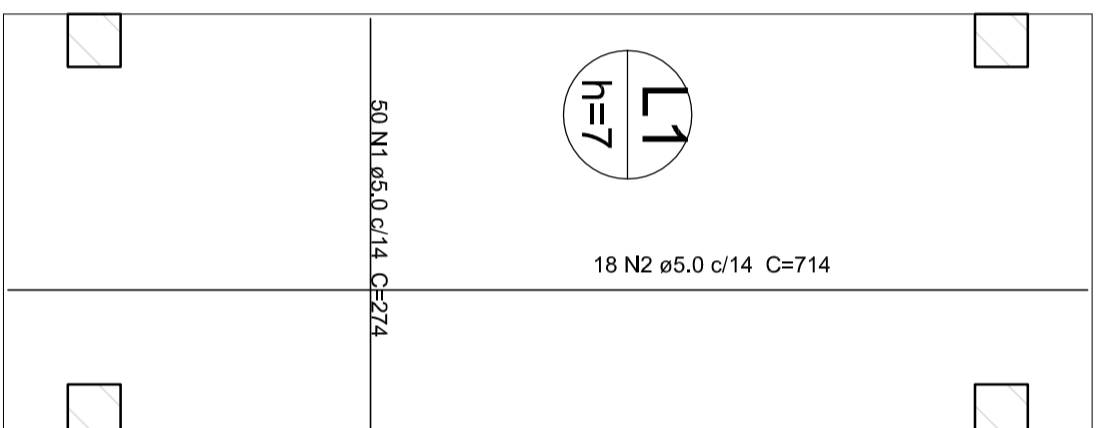
ESCALA: 1/25

Nome	Estacas	Pilar		Fundação						Bloco		
		X (cm)	Y (cm)	Carga Máx. (kgf)	Carga Min. (kgf)	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	ne	Estaca	ca (cm)
P1	35x35	12656,70	4346,80	2200	2100	170	110	0	70	6	C20	-55
P2	35x35	12901,70	4346,80	2200	2100	170	110	0	70	6	C20	-55
P3	35x35	12656,70	3746,80	2200	2100	170	110	0	70	6	C20	-55
P4	35x35	12901,70	3746,80	2200	2100	170	110	0	70	6	C20	-55



## 3 CORTE AA

SEM ESCALA

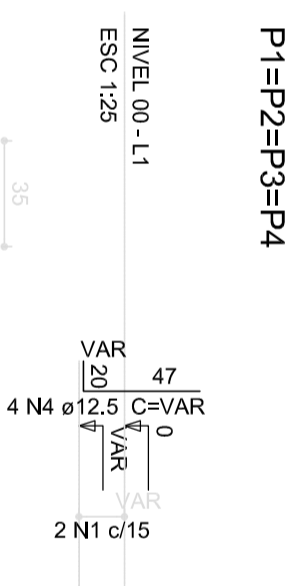


## 5 LAJE NÍVEL 000

SEM ESCALA

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA60	5,0	265,6	40,9
<b>PESO TOTAL</b>			<b>40,9</b>

Volume de concreto (C-25) = 1,21 m³  
Área de forma = 17,32 m²



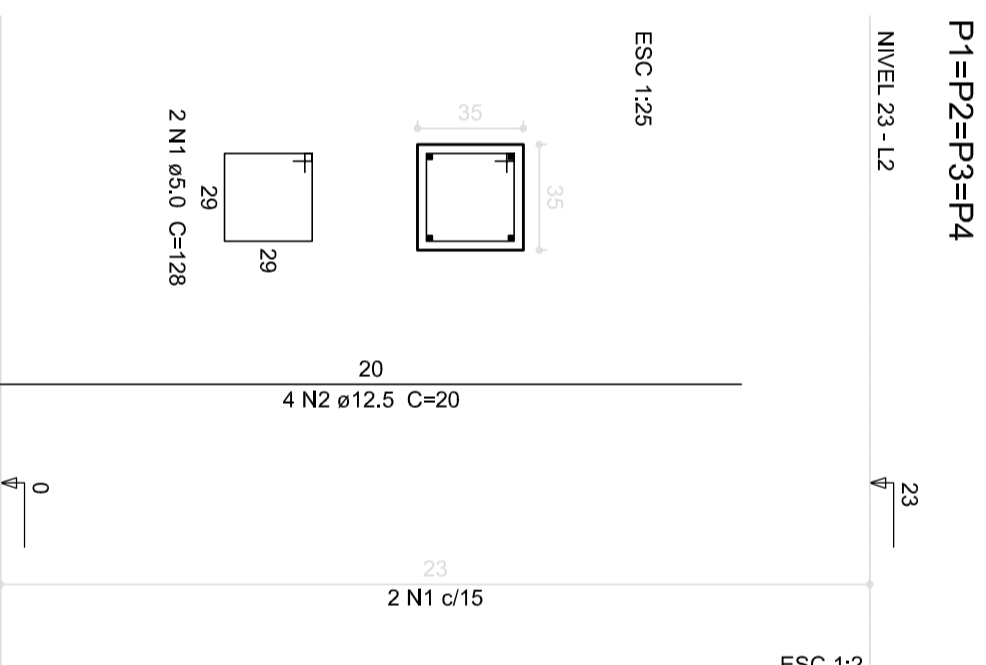
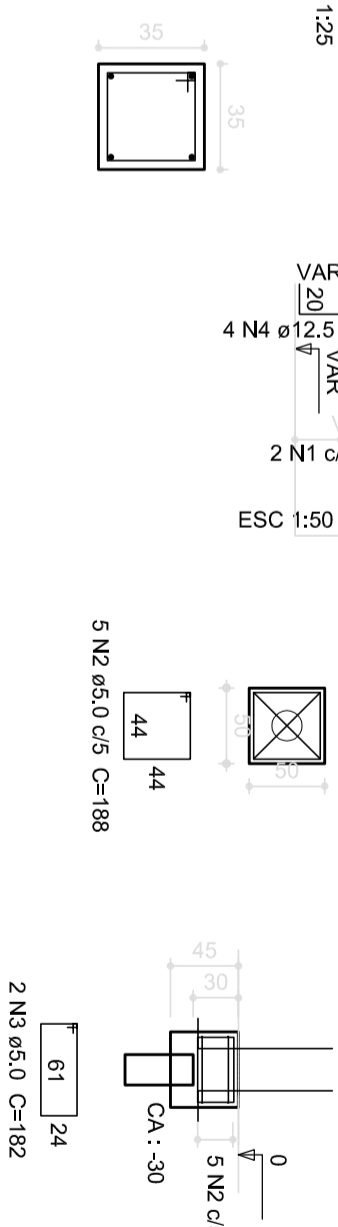
## 4 PILARES NÍVEL 000 E BLOCOS DE FUNDAÇÃO

## 4 PILARES NÍVEL 000 E BLOCOS DE FUNDAÇÃO

ESCALA: INDICADA

Resumo do aço			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	12,5	15,1	14,5
CA60	5,0	62,4	9,6
<b>PESO TOTAL</b>			<b>14,5</b>

Volume de concreto (C-25) = 0,15 m³  
Área de forma = 5,28 m²



## 6 PILARES NÍVEL 23

## 6 ESCALA INDICADA

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	12,5	3,2	3,1
CA60	5,0	10,3	1,6
<b>PESO TOTAL</b>			<b>3,1</b>

Volume de concreto (C-25) = 0,11 m³  
Área de forma = 1,29 m²

## 6 ESCALA INDICADA

**FNDE** Fundo Nacional de Desenvolvimento da Educação

Ministério da Educação

**BRASIL** GOVERNO FEDERAL PAÍS RICO E PAÍS SEM POBREZA

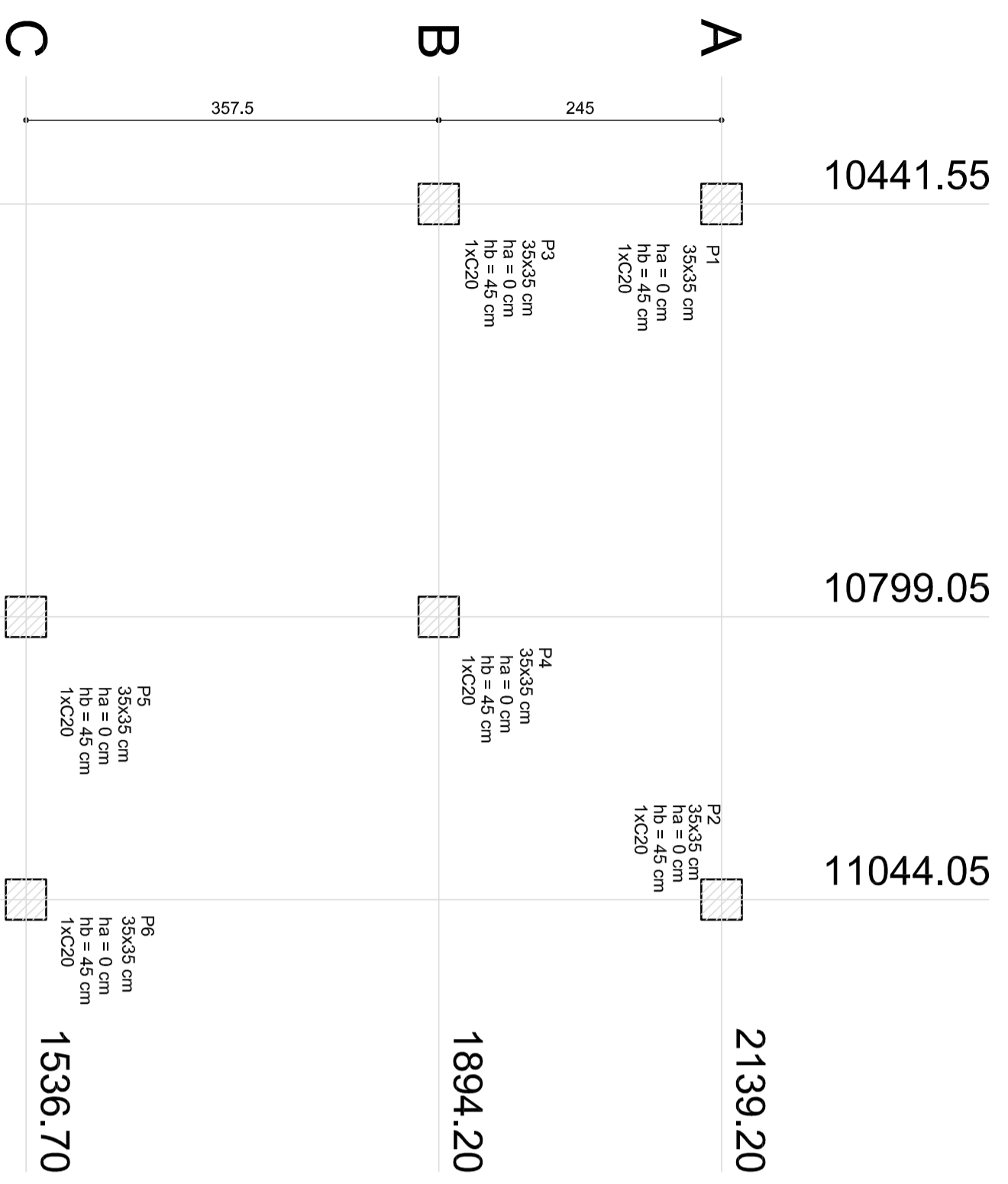
## PROJETO PADRÃO - FNDE

PROPRIETÁRIO:	
ENDEREÇO:	
MUNICÍPIO - UF:	
PROPRIETÁRIO	CREA
RESP. TÉCNICO	CREA
AUTOR DO PROJETO	CAU
DUFO	CREA

OBSERVAÇÕES:	
	RA

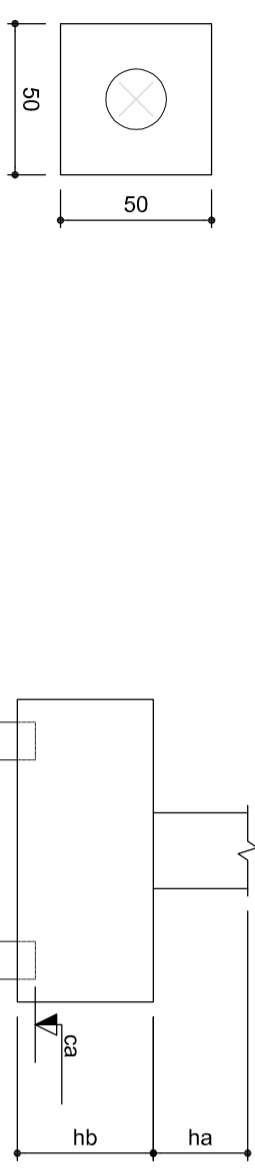
ESCOLA 12 SALAS DE AULA	
PROJETO DE ESTRUTURA	
COORDENAÇÃO	PASSARELA M2
CGEST - Coordenação Geral de Infraestrutura Educacional	LOCAÇÃO, BLOCOS DE FUNDAÇÃO
	PILARES E LAJES NÍVEL 000, PILARES NÍVEL 23

FORMATO	A1 (69x420)	REVISÃO	R.03	ESCALA	INDICADA	FRANCHA	41/42
DATA EMISSÃO	MARÇO 2014						



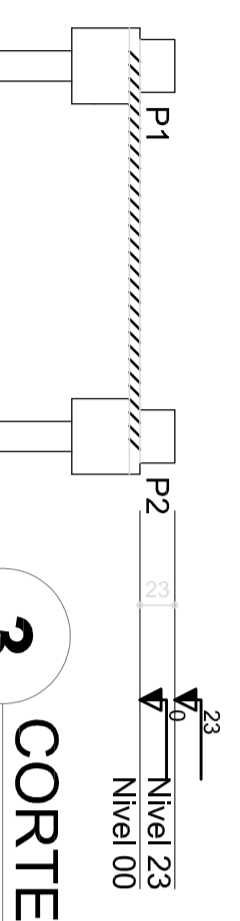
# 1 PLANTA DE LOCAÇÃO ESCALA 1/50

B1=B2=B3=B4=B5=B6 (1xC20)

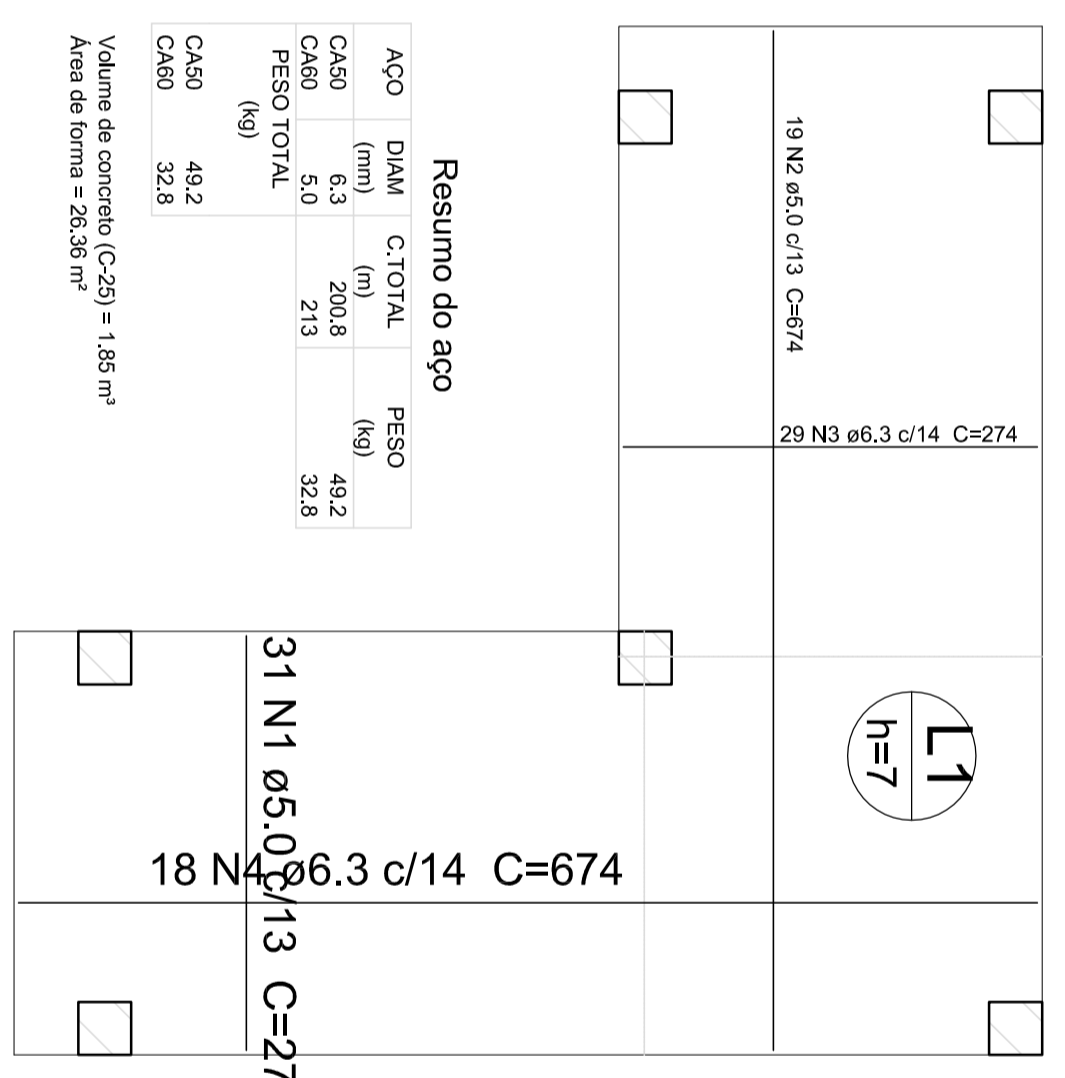


# 2 BLOCOS DE FUNDAÇÃO ESCALA: 1/25

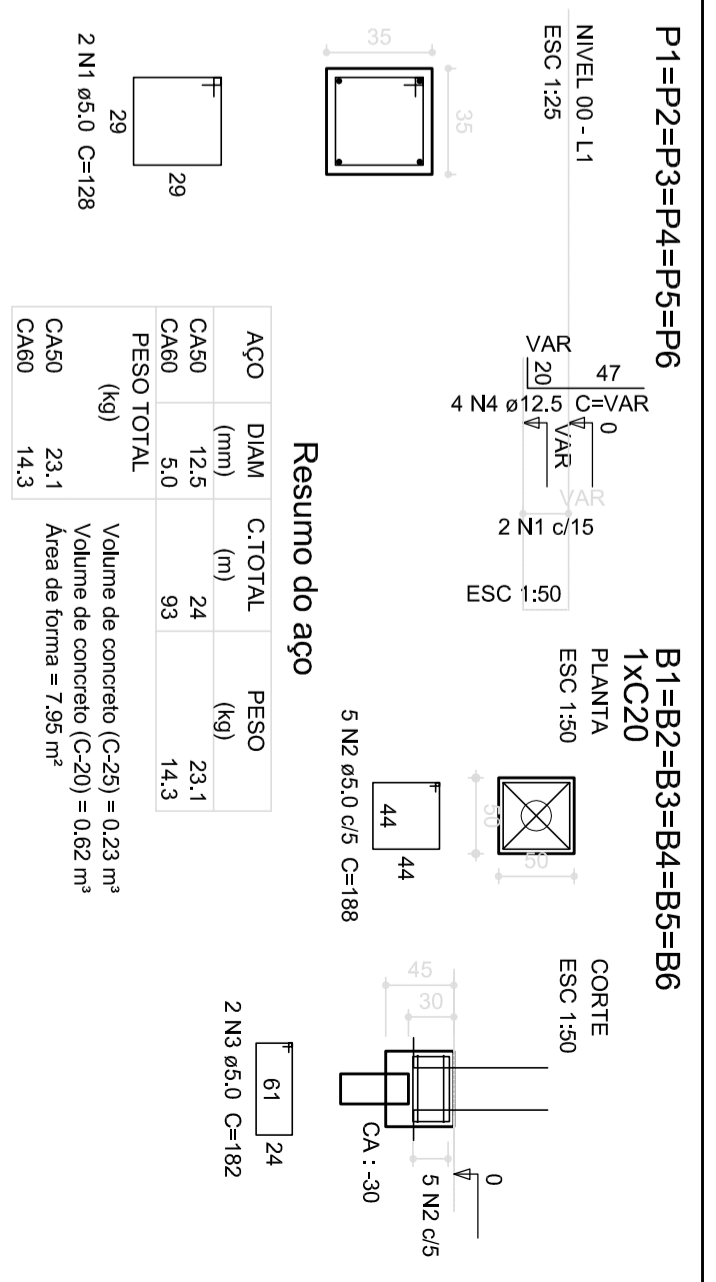
Nome	Estacas		Pilar		Carga Max. (kgf)	Carga Min. (kgf)	Fundação		Bloco			
	Quantidade	C20	X (cm)	Y (cm)			Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	ne	ca (cm)
P1	35x35	10441,55	2139,20	2200	2100	170	110	0	70	6	C20	-55
P2	35x35	11044,05	2139,20	2700	2800	230	110	0	95	8	C20	-80
P3	35x35	10441,55	1894,20	1700	1600	110	50	0	45	2	C20	-30
P4	35x35	10799,05	1894,20	2500	2400	110	50	0	50	4	C20	-35
P5	35x35	10799,05	1536,70	1700	1600	110	50	0	45	2	C20	-30
P6	35x35	11044,05	1536,70	2200	2100	170	110	0	70	6	C20	-55



# 3 CORTE AA SEM ESCALA



# 4 PILARES NÍVEL 000 E BL. DE FUNDAÇÃO ESCALA: INDICADA

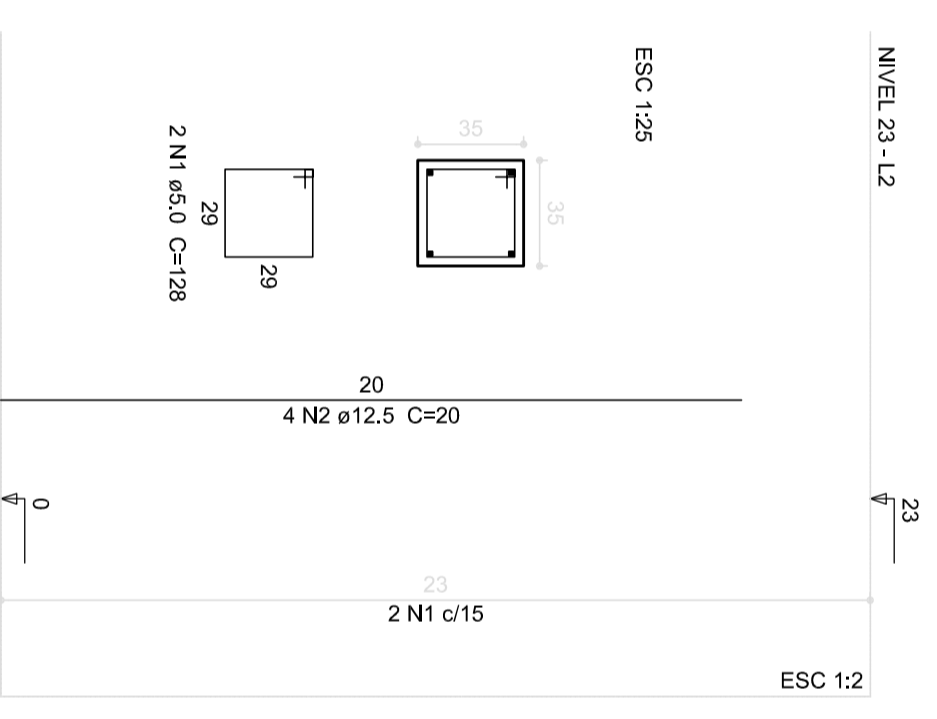


# 5 LAJE NÍVEL 000 SEM ESCALA

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	12,5	4,8	4,6
CA60	5,0	15,4	2,4
<b>PESO TOTAL</b>			<b>7,0</b>

Volume de concreto (C-25) = 0,17 m³  
Área de forma = 1,93 m²



# 6 PILARES NÍVEL 23 ESCALA INDICADA

PROPRIETÁRIO: FND E  
ENDEREÇO: FND E  
MUNICÍPIO - UF: FND E  
PROPRIETÁRIO: FND E  
RESP. TÉCNICO: FND E  
AUTOR DO PROJETO: FND E  
DUFO: FND E

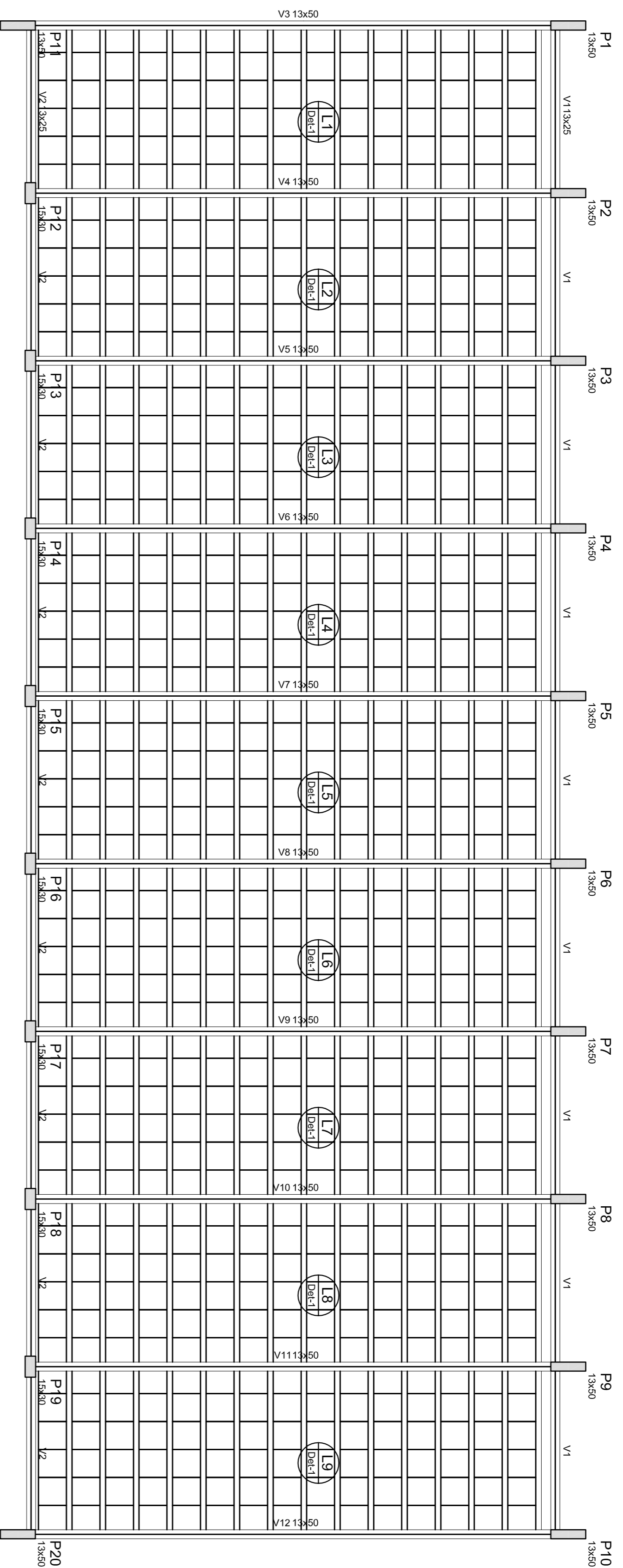
PROPRIETÁRIO: FND E  
ENDEREÇO: FND E  
MUNICÍPIO - UF: FND E  
PROPRIETÁRIO: FND E  
RESP. TÉCNICO: FND E  
AUTOR DO PROJETO: FND E  
DUFO: FND E

PROPRIETÁRIO: FND E  
ENDEREÇO: FND E  
MUNICÍPIO - UF: FND E  
PROPRIETÁRIO: FND E  
RESP. TÉCNICO: FND E  
AUTOR DO PROJETO: FND E  
DUFO: FND E

COORDENAÇÃO: CGEST - Coordenação Geral de Infraestrutura Educacional  
PROJETO DE ESTRUTURA: PASSARELA M3  
LOCALIZAÇÃO, BLOCOS DE FUNDAÇÃO: PASSARELA M3  
PILARES E LAJES NÍVEL 000, PILARES NÍVEL 23: PASSARELA M3

REVISÃO: R.03  
INDICADA: MAIO/2014  
FRANCHA: 421/42





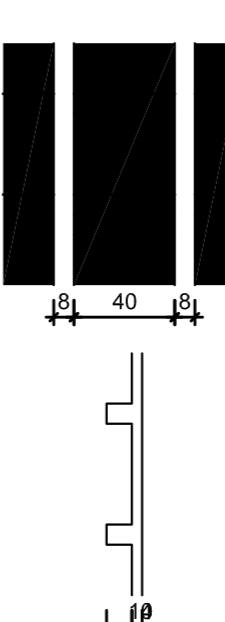
Nome	Seção	Embalado	Nível
V1	13x25	0	325
V2	13x25	0	325
V3	13x50	0	325
V4	13x50	0	325
V5	13x50	0	325
V6	13x50	0	325
V7	13x50	0	325
V8	13x50	0	325
V9	13x50	0	325
V10	13x50	0	325
V11	13x50	0	325
V12	13x50	0	325

Características dos materiais

ICA	Ecs
(kg/m <sup>3</sup> )	(kg/m <sup>3</sup> )
320	23500

Dimensão máxima de espaçamento = 19 mm

Detalhe 1 (esc. 1:30)



Detalhe	Tipo	Nome	Dimensões(cm)	Quantidade
1	EPS Unidirecional	Bloco de enchimento	H=40 Bx=40	810

## 1 FORMAS NÍVEL 325

### ESCALA: INDICADA



#### Resumo do aço

ACO	DIAM	C:TOTAL	PESO
CA50	10,0	185,5	114,5
CA80	12,5	389,3	384,5
CA80	14,0	691,4	1019
PESO TOTAL			
CA50		489,0	
CA80		1019	

Volume de concreto (C-20) = 4,07 m<sup>3</sup>  
 Área de forma = 78,34 m<sup>2</sup>

## 2 PILARES NÍVEL 325

### SEM ESCALA



### PROJETO PADRÃO - FNDE

PROPRIETÁRIO: \_\_\_\_\_

ENDEREÇO: \_\_\_\_\_

MUNICÍPIO - UF: \_\_\_\_\_

PROPRIETÁRIO: \_\_\_\_\_

RESP. TÉCNICO: \_\_\_\_\_ CREA \_\_\_\_\_

AUTOR DO PROJETO: \_\_\_\_\_ CAD \_\_\_\_\_

DLFO: \_\_\_\_\_ CREA \_\_\_\_\_

OBSERVAÇÕES: \_\_\_\_\_

ESCOLA 12 SALAS DE AULA

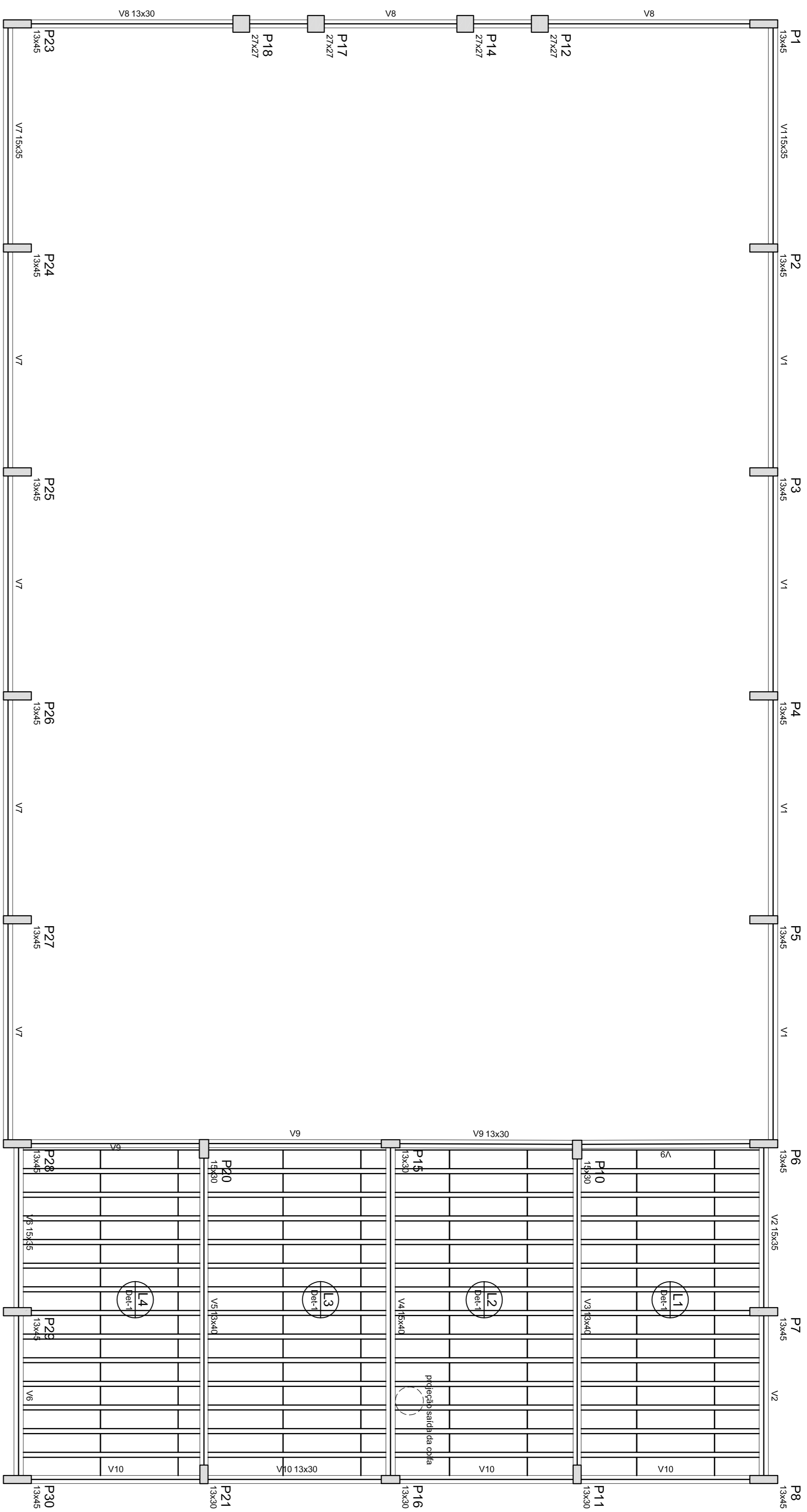
PROJETO DE ESTRUTURA

BLOCO C: PEDAGÓGICO

FORMAS NÍVEL 325

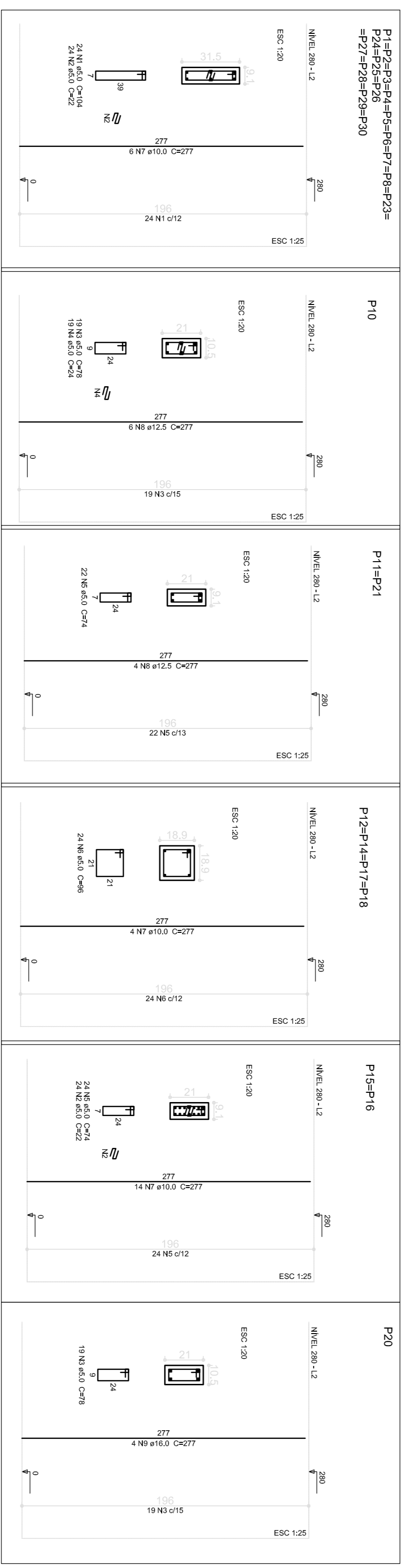
FORMAS NÍVEL 325

PRONÓIA 15/42



# 1 FORMAS NÍVEL 280

ESCALA: 1/50



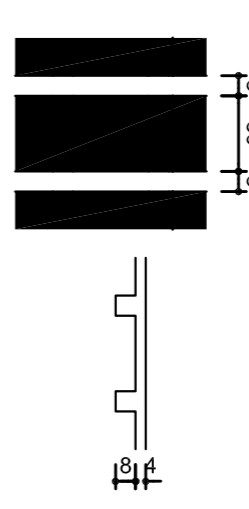
# 2 PILARES NÍVEL 280

ESCALA INDICADA

Nome	Seção	Espessura	Altura
(cm)	(cm)	(cm)	(cm)
V1	15x35	0	280
V2	15x35	0	280
V3	13x40	0	280
V4	13x40	0	280
V5	13x40	0	280
V6	15x35	0	280
V7	15x35	0	280
V8	13x30	0	280
V9	13x30	0	280
V10	13x30	0	280

Características dos materiais		
fck	fcd	fctm
(kgf/cm²)	(kgf/cm²)	(kgf/cm²)
250	166,67	239000

Detalhe 1 (esc. 1:30)



Detalhe	Tipo	Nome	Dimensões(cm)	Quantidade
1	EPS Uniflexional	Ba.30/75	8   30   75	188

Resumo do aço		
ACO	DIAM	C.TOTAL
(mm)	(mm)	(kg)
CA50	10,0	387,8
CA50	12,5	38,8
CA80	16,0	11,1
CA80	5,0	888,9
PESO TOTAL		(kg)
CA50	294,2	
CA80	106,1	
Voluma de concreto (C-25) = 4,13 m³		
Área do forro = 62,74 m²		

## PROJETO PADRÃO - FNDE



PROPRIETÁRIO: \_\_\_\_\_

ENDEREÇO: \_\_\_\_\_

MUNICÍPIO - UF: \_\_\_\_\_

PROPRIETÁRIO: \_\_\_\_\_

RESP. TÉCNICO: \_\_\_\_\_ CREA \_\_\_\_\_

AUTOR DO PROJETO: \_\_\_\_\_ CAD \_\_\_\_\_

DLFO: \_\_\_\_\_ CREA \_\_\_\_\_

OBSEVAÇÕES: \_\_\_\_\_

ESCOLA 12 SALAS DE AULA

PROJETO DE ESTRUTURA

BLOCO D: PEDAGÓGICO

FORMAS NÍVEL 280

PILARES NÍVEL 280

COSEQUÊNCIA: CGEST - Coordenação Geral de Infraestrutura Educacional

REVISÃO: R.03

ESCALA: INDICADA

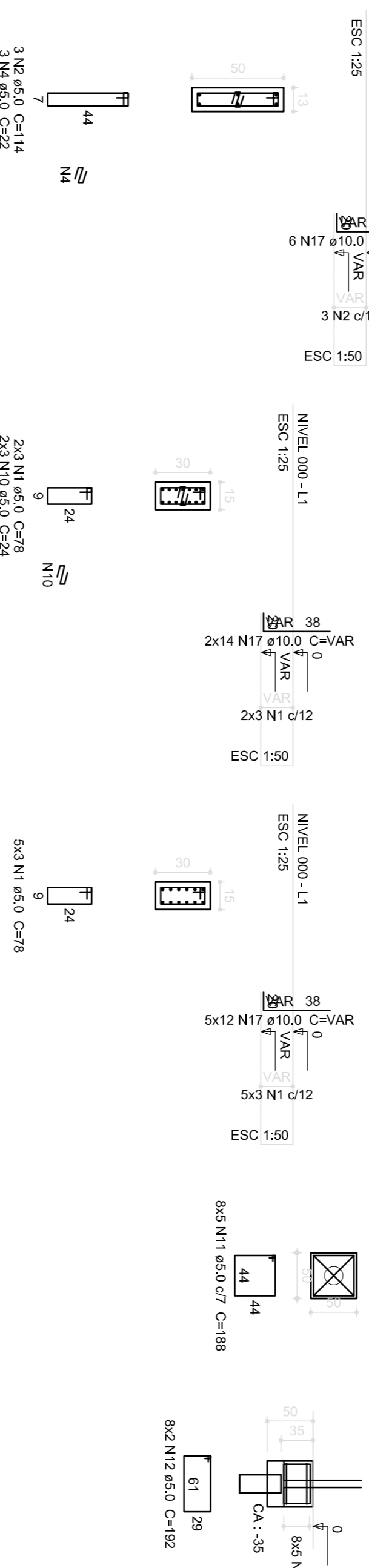
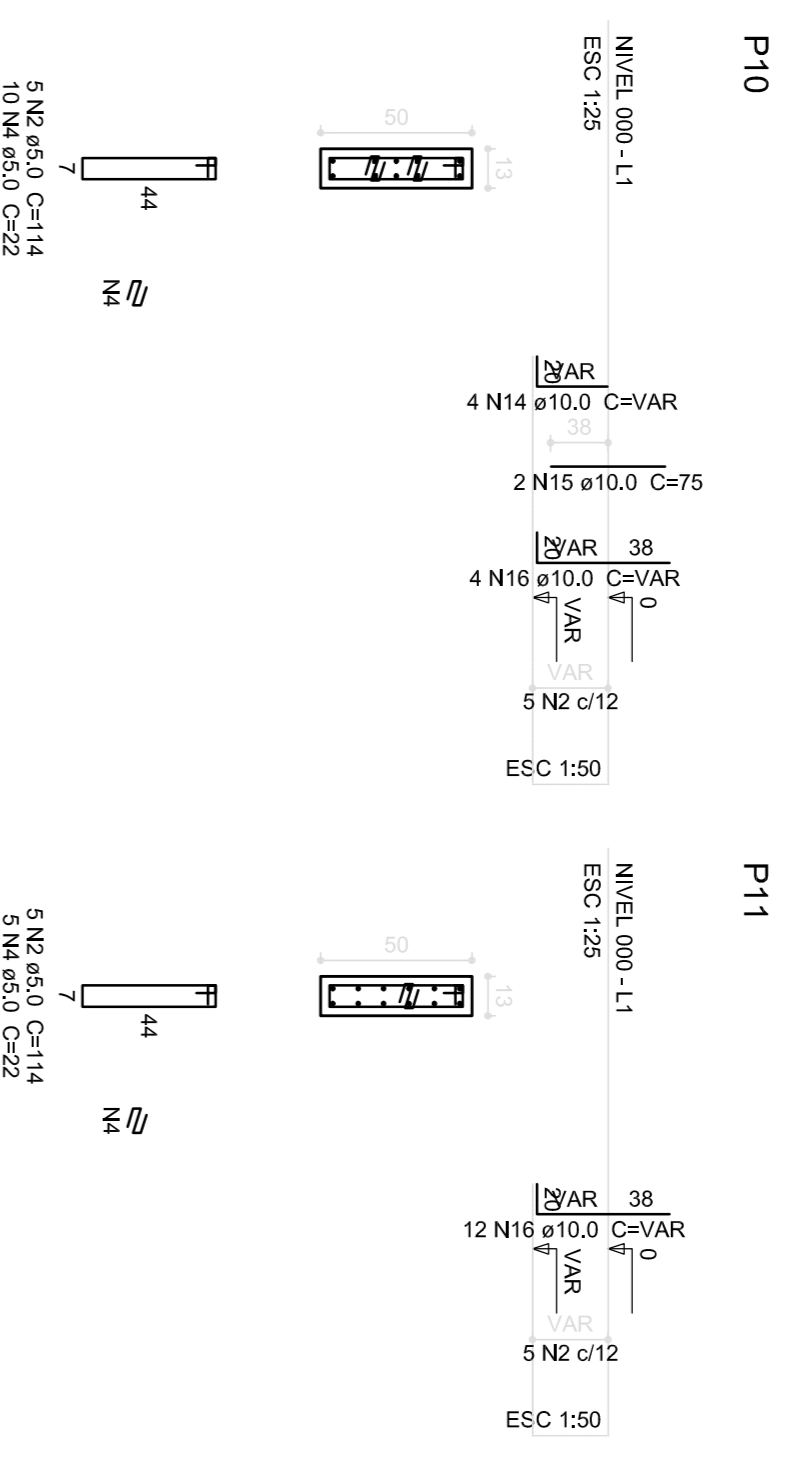
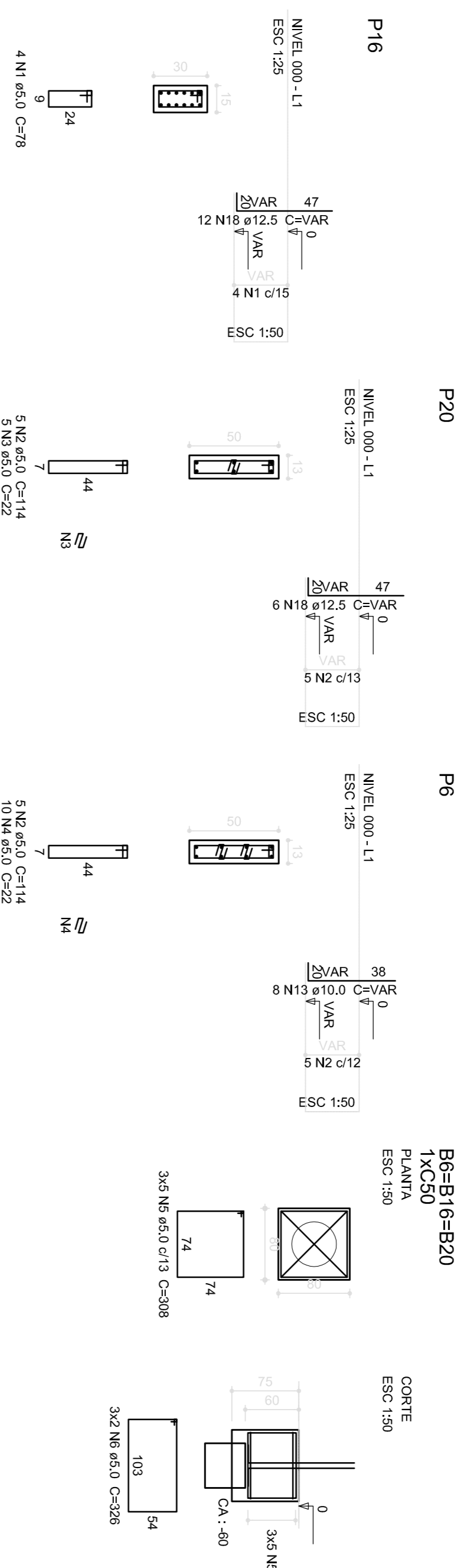
DATA EMISSÃO: MAIO/2014

PRONÓIA: 21/42









**Resumo do aço**

CASO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CAS0	10,0	200,7	123,8
CAS1	14,5	22,4	4,4
CAS2	5,0	541,7	83,4
<b>PESO TOTAL</b>			<b>181,6</b>
CAS0	14,5	14,5	1,4
CAS1	5,0	5,0	0,4
<b>CASO</b>		<b>14,5</b>	<b>1,8</b>
<b>CAS0</b>		<b>5,0</b>	<b>0,4</b>

Volume de concreto (C-25) = 6,84 m³  
Área de forma = 50,8 m²

# 1 PILARES NÍVEL 000 E BLOCOS DE FUNDAÇÃO

ESCALA: INDICADA

Fundo Nacional de Desenvolvimento da Educação

GOVERNO FEDERAL

Ministério da Educação

## PROJETO PADRÃO - FNDE

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PROPRIETÁRIO: \_\_\_\_\_

ENDEREÇO: \_\_\_\_\_

MUNICÍPIO - UF: \_\_\_\_\_

PROPRIETÁRIO: \_\_\_\_\_

RESP. TÉCNICO: \_\_\_\_\_ CREA \_\_\_\_\_

AUTOR DO PROJETO: CAU \_\_\_\_\_

D.L.F.O: \_\_\_\_\_ CREA \_\_\_\_\_

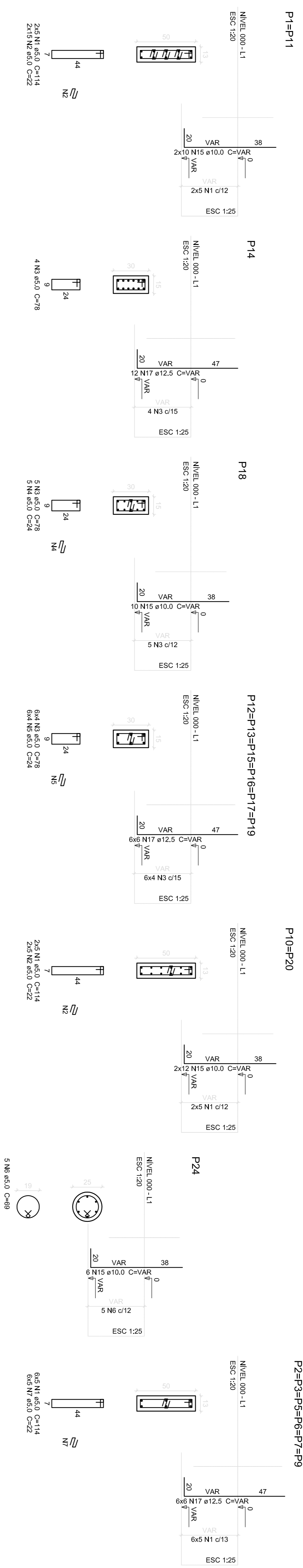
RA: \_\_\_\_\_

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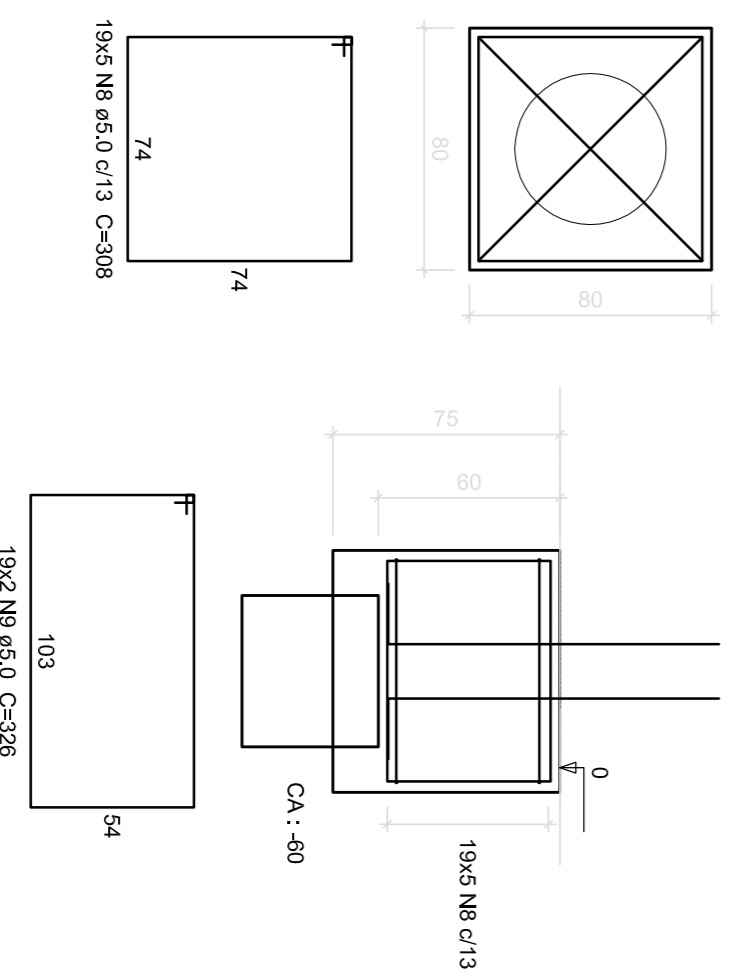
OBSERVAÇÕES: \_\_\_\_\_

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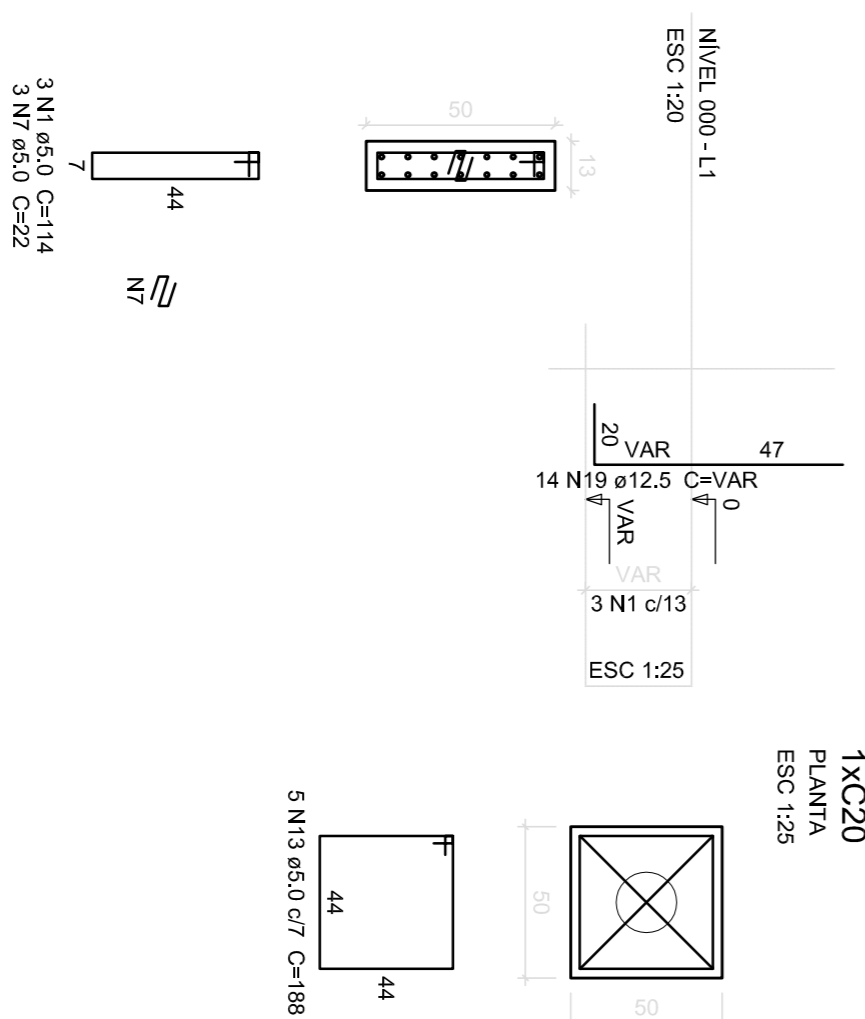
<b>ESCOLA 12 SALAS DE AULA</b>		<b>SCP</b>
<b>PROJETO DE ESTRUTURA</b>		
COORDENADOR	BLOCO B: PEDAGÓGICO	<b>08/42</b>
CGEST - Coordenação Geral de Infraestrutura Educacional	PILARES NÍVEL 000	
REVISÃO	ESCALA	
FORMATO: A1 (84x114)	INDICAÇÃO	
R.03	DATA EMISSÃO: MAIO/2014	



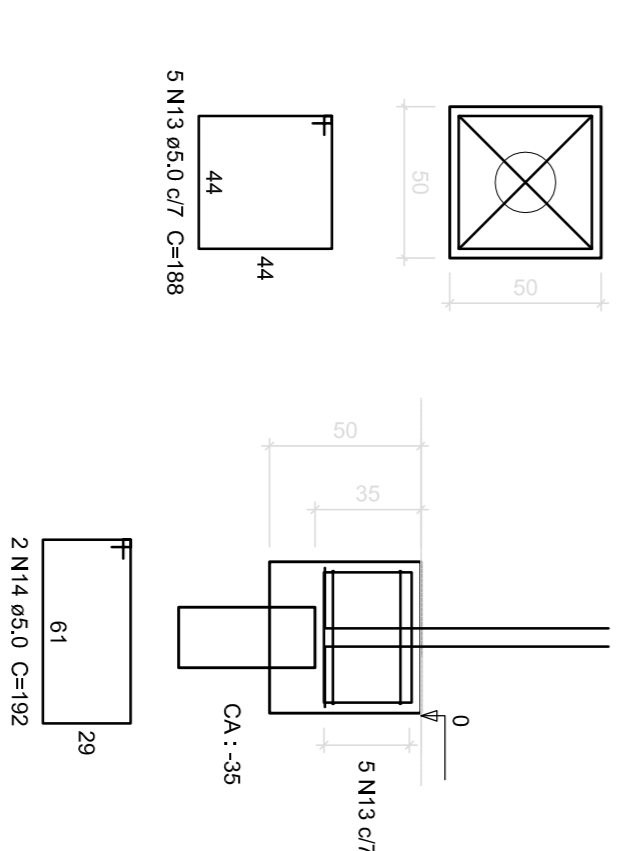
B1=B2=B3=B5=B6=B7=B9=B10=B11=B12=B13  
 =B14=B15=B16=B17=B18=B19=B20=B24  
 1XC50  
 PLANTA  
 ESC 1:25



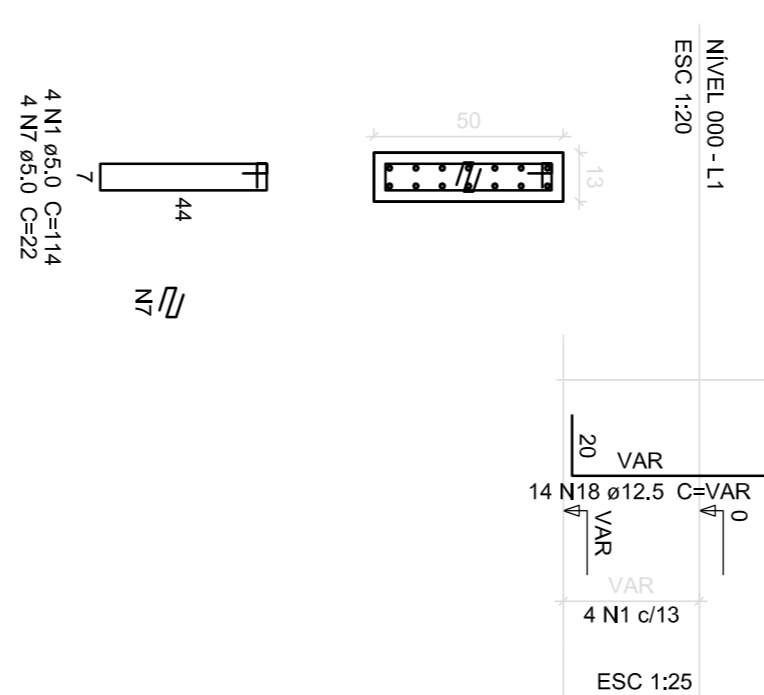
P4



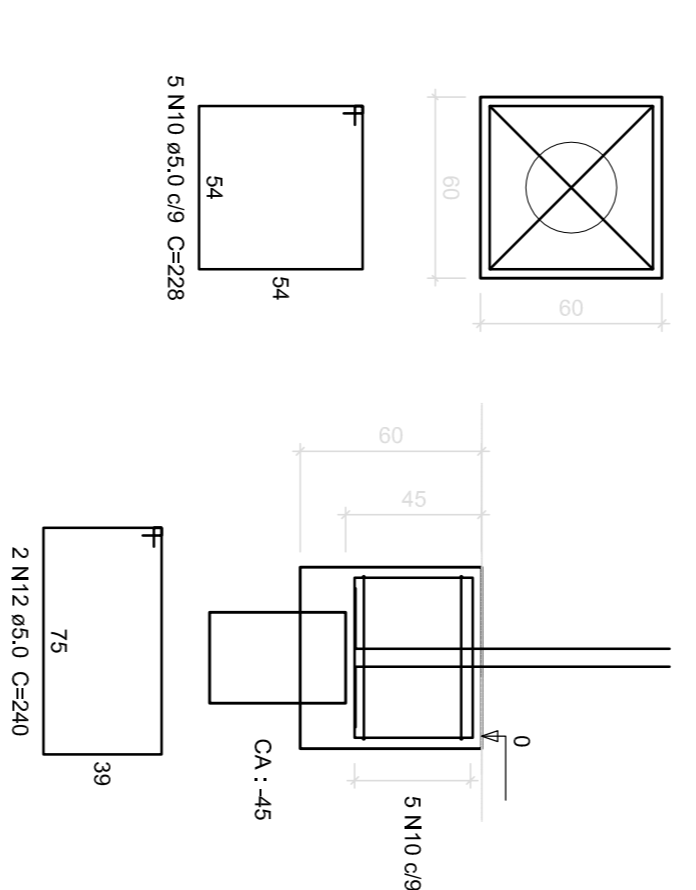
B4  
 1XC20  
 PLANTA  
 ESC 1:25



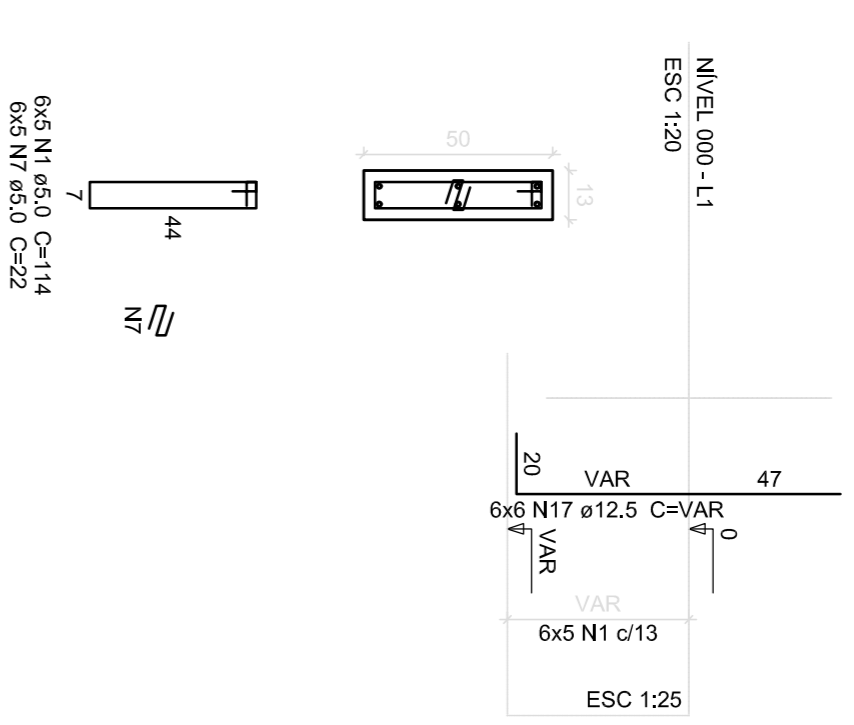
P8



B8  
 1XC30  
 PLANTA  
 ESC 1:25



P2=P3=P5=P6=P7=P9



Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	81.2	50.1
CA60	12.5	133.3	128.4
CA60	5.0	601.6	92.6
<b>PESO TOTAL (kg)</b>			<b>178.5</b>
CA50			92.6
CA60			92.6

Volume de concreto (C-25) = 9,99 m³  
 Área de forma = 84,67 m²

PROJETO PADRÃO - FNDE



PROPRIETÁRIO: \_\_\_\_\_  
 ENDEREÇO: \_\_\_\_\_  
 MUNICÍPIO - UF: \_\_\_\_\_  
 PROPRIETÁRIO: \_\_\_\_\_  
 RESP. TÉCNICO: \_\_\_\_\_ CREA \_\_\_\_\_  
 AUTOR DO PROJETO: \_\_\_\_\_ CAD \_\_\_\_\_  
 D.L.F.O: \_\_\_\_\_ CREA \_\_\_\_\_ RA \_\_\_\_\_

OBSERVAÇÕES: \_\_\_\_\_

1 PILARES NÍVEL 000 E BLOCOS DE FUNDAÇÃO  
 ESCALA: INDICADA

ESCOLA T2 SALAS DE AULA  
 PROJETO DE ESTRUTURA

BLOCO C: PEDAGÓGICO  
 PILARES NÍVEL 000  
 BLOCOS DE FUNDAÇÃO

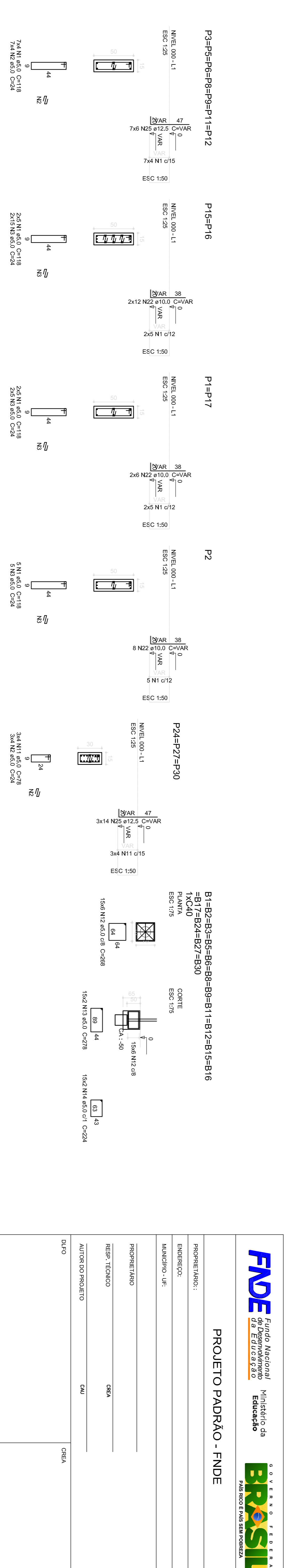
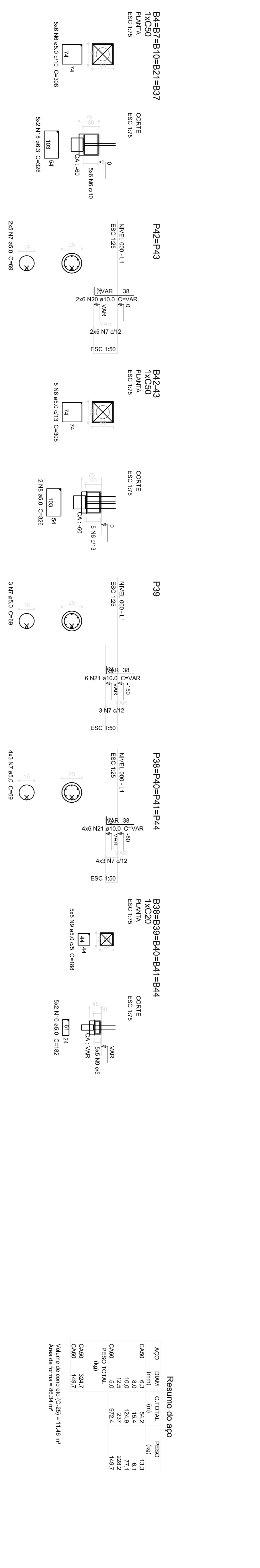
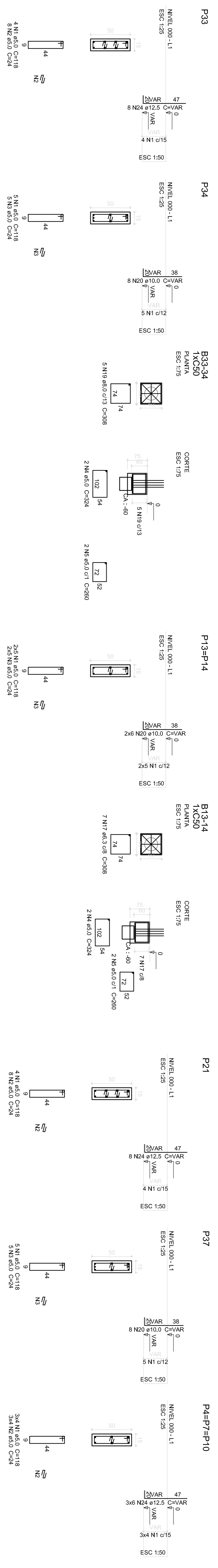
CONSERVAÇÃO  
 CGEST - Coordenação  
 Geral de Infraestrutura  
 Educacional

REVISÃO  
 R03

ESCALA  
 INDICADA

DATA EMISSÃO  
 MAIO/2014

PRONÓIA  
 14/42



**1** PILARES NÍVEL 000 E BLOCOS DE FUNDAÇÃO  
ESCALA: INDICADA

**Resumo do aço**

AÇO	DIM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6,3	54,2	13,3
CA50	8,0	15,4	6,1
CA50	10,0	124,9	77,1
CA50	12,5	23,7	28,2
CA50	16,0	97,2	49,7
<b>PESO TOTAL</b>			<b>164,4</b>
CA50	324,7		
CA80	149,7		

Volume de concreto (C-25) = 11,46 m³  
Área de forma = 88,34 m²

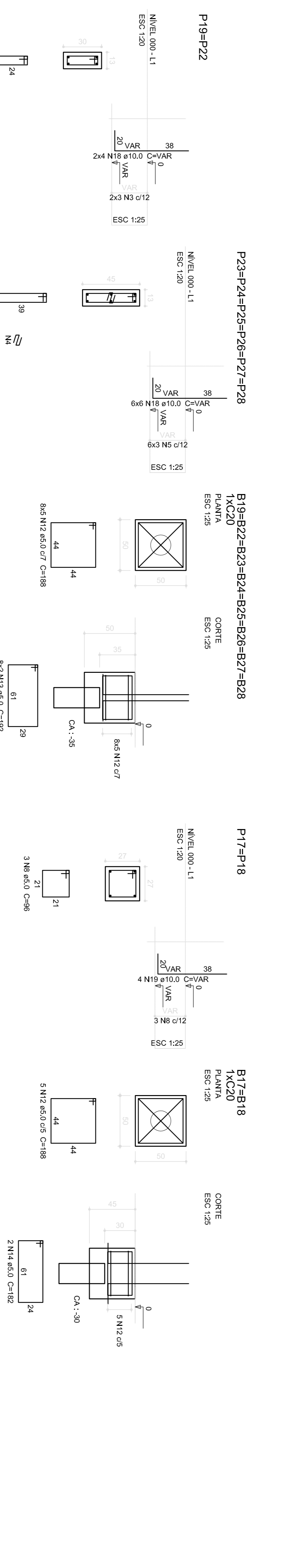
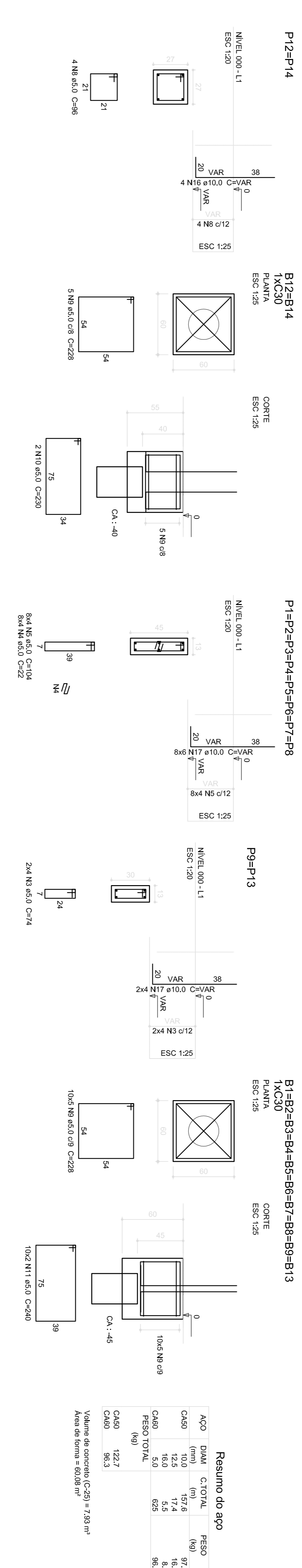
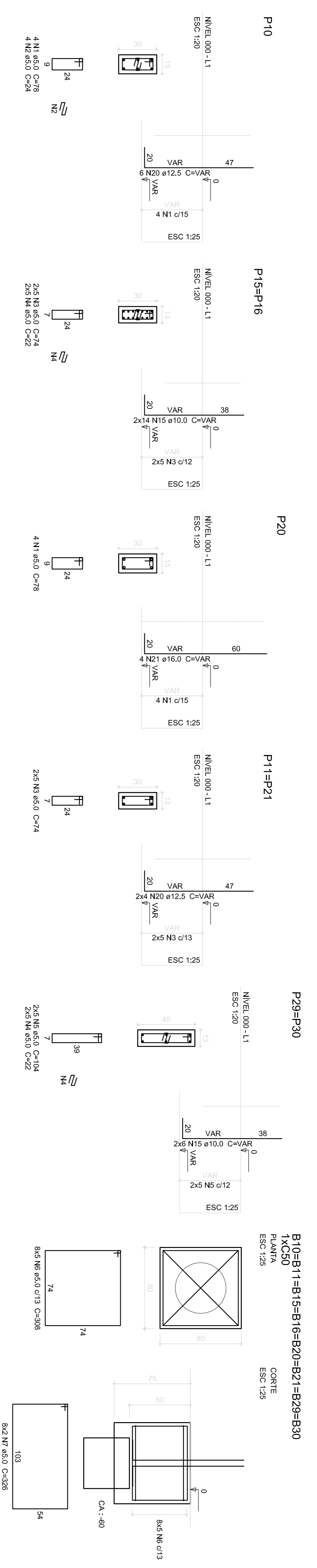
**PROJETO PADRÃO - FNDE**



PROPRIETÁRIO:	
ENGENHEIRO:	
MUNICÍPIO - UF:	RA
PROPRIETÁRIO:	
RESP. TÉCNICO:	CREA
AUTOR DO PROJETO:	CAU
D.L.F.O:	CREA

OBSERVAÇÕES:	
<p>ESCOLA 12 SALAS DE AULA PROJETO DE ESTRUTURA</p> <p>BLOCO E: PEDAGÓGICO CGEST - Coordenação Geral de Infraestrutura Educacional</p> <p>BLOCOS DE FUNDAÇÃO</p> <p>SCF</p>	
CONVERSÃO:	FORMAÇÃO
REVISÃO:	INDICAÇÃO
DATA EMISSÃO:	VALIDADE
FORMULÁRIO:	26/42





**Resumo do aço**

ACO	DIAM (mm)	C TOTAL (m)	PESO (kg)
CA50	10,0	157,6	97,2
CA50	12,5	17,4	16,8
CA50	16,0	5,5	8,7
CA50	20,0	625	96,3
<b>PESO TOTAL (kg)</b>			<b>219,3</b>
CA50	122,7		
CA60	96,3		

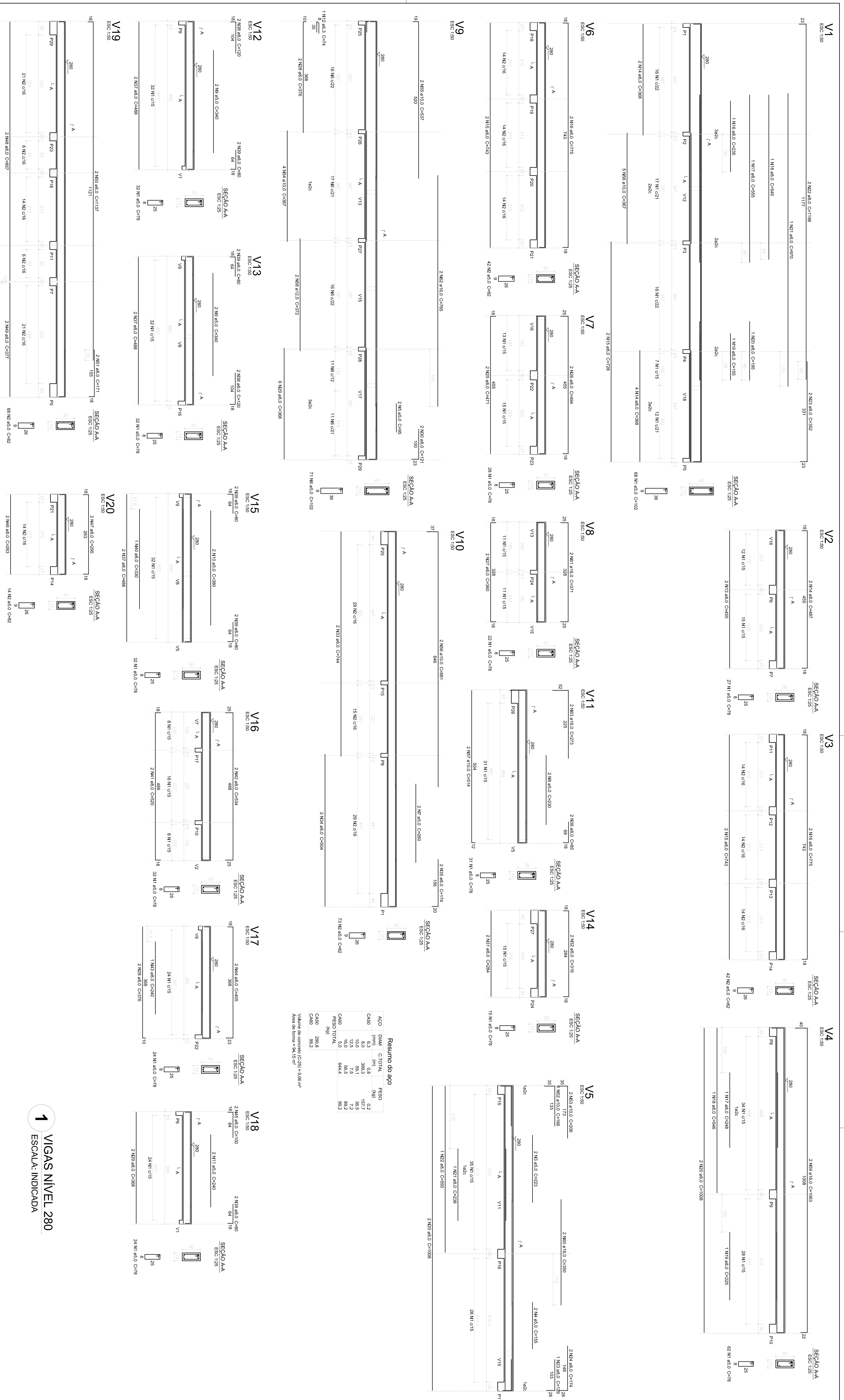
Volume de concreto (C-20) = 7,93 m³  
Área de forma = 60,08 m²

# 1 PILARES NIVEL 000 E BLOCOS DE FUNDAÇÃO

## ESCALA: INDICADA

<b>PROPRIETARIO:</b> <b>FNDE</b> - Fundo Nacional de Desenvolvimento da Educação Ministério da Educação		<b>GOVERNO FEDERAL</b> <b>BRASIL</b> PAÍS RICO E PAÍS SEM POBREZA	
<b>PROJETO PADRÃO - FNDE</b>			
<b>ENDERECO:</b>			
<b>MUNICIPIO - UF:</b>			
<b>PROPRIETARIO:</b>			
<b>RESP. TÉCNICO:</b>		<b>CREA:</b>	
<b>AUTOR DO PROJETO:</b>		<b>CAU:</b>	
<b>D.F.O:</b>		<b>CREA:</b>	
<b>OBSERVAÇÕES:</b>			
<b>CONSERVACAO</b> CGEST - Coordenação Geral de Infraestrutura Educacional		<b>BLOCO D: PEDAGÓGICO</b> <b>PILARES NIVEL 000</b> <b>BLOCOS DE FUNDAÇÃO</b>	
<b>FORMATO</b> A1 (84x184)		<b>PRONCIA</b> 20/42	

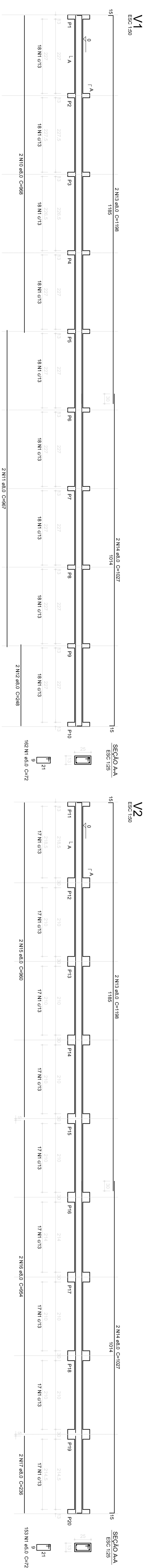




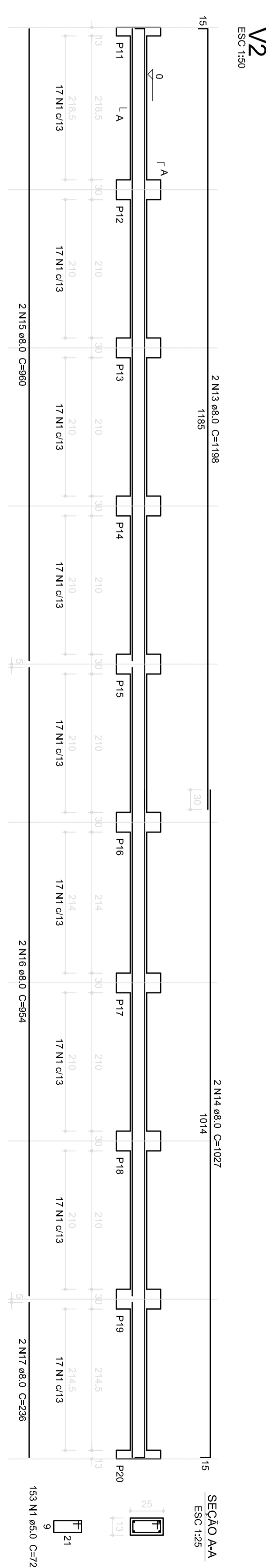
Resumo do aço

ACO	DIAM	COMPR	QTD	RESO
CA50	8,0	388,3	157,7	1257
CA50	10,0	12,5	36,2	285
CA50	14,0	44,5	16,2	862
CA50	16,0	44,4	9,2	592
CA50	18,0	29,5	1,0	18
CA50	20,0	29,5	1,0	18
CA50	25,0	29,5	1,0	18
CA50	32,0	29,5	1,0	18
CA50	36,0	29,5	1,0	18
CA50	42,0	29,5	1,0	18
CA50	48,0	29,5	1,0	18
CA50	56,0	29,5	1,0	18
CA50	63,0	29,5	1,0	18
CA50	70,0	29,5	1,0	18
CA50	78,0	29,5	1,0	18
CA50	86,0	29,5	1,0	18
CA50	94,0	29,5	1,0	18
CA50	102,0	29,5	1,0	18
CA50	110,0	29,5	1,0	18
CA50	118,0	29,5	1,0	18
CA50	126,0	29,5	1,0	18
CA50	134,0	29,5	1,0	18
CA50	142,0	29,5	1,0	18
CA50	150,0	29,5	1,0	18
CA50	158,0	29,5	1,0	18
CA50	166,0	29,5	1,0	18
CA50	174,0	29,5	1,0	18
CA50	182,0	29,5	1,0	18
CA50	190,0	29,5	1,0	18
CA50	198,0	29,5	1,0	18
CA50	206,0	29,5	1,0	18
CA50	214,0	29,5	1,0	18
CA50	222,0	29,5	1,0	18
CA50	230,0	29,5	1,0	18
CA50	238,0	29,5	1,0	18
CA50	246,0	29,5	1,0	18
CA50	254,0	29,5	1,0	18
CA50	262,0	29,5	1,0	18
CA50	270,0	29,5	1,0	18
CA50	278,0	29,5	1,0	18
CA50	286,0	29,5	1,0	18
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CA50	310,0	29,5	1,0	18
CA50	318,0	29,5	1,0	18
CA50	326,0	29,5	1,0	18
CA50	334,0	29,5	1,0	18
CA50	342,0	29,5	1,0	18
CA50	350,0	29,5	1,0	18
CA50	358,0	29,5	1,0	18
CA50	366,0	29,5	1,0	18
CA50	374,0	29,5	1,0	18
CA50	382,0	29,5	1,0	18
CA50	390,0	29,5	1,0	18
CA50	398,0	29,5	1,0	18
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CA50	414,0	29,5	1,0	18
CA50	422,0	29,5	1,0	18
CA50	430,0	29,5	1,0	18
CA50	438,0	29,5	1,0	18
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CA50	454,0	29,5	1,0	18
CA50	462,0	29,5	1,0	18
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CA50	478,0	29,5	1,0	18
CA50	486,0	29,5	1,0	18
CA50	494,0	29,5	1,0	18
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CA50	510,0	29,5	1,0	18
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CA50	822,0	29,5	1,0	18
CA50	830,0	29,5	1,0	18
CA50	838,0	29,5	1,0	18
CA50	846,0	29,5	1,0	18
CA50	854,0	29,5	1,0	18
CA50	862,0	29,5	1,0	18
CA50	870,0	29,5	1,0	18
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CA50	934,0	29,5	1,0	18
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CA50	1166,0	29,5	1,0	18
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CA50	1518,0	29,5	1,0	18
CA50	1526,0	29,5	1,0	18
CA50	1534,0	29,5	1,0	18
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CA50	1582,0	29,5	1,0	18
CA50	1590,0	29,5	1,0	18
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CA50	1622,0	29,5	1,0	18
CA50	1630,0	29,5	1,0	18
CA50	1638,0	29,5	1,0	18
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CA50	1654,0	29,5	1,0	18
CA50	1662,0	29,5	1,0	18
CA50	1670,0	29,5	1,0	18
CA50	1678,0	29,5	1,0	18
CA50	1686,0	29,5	1,0	18
CA50	1694,0	29,5	1,0	18
CA50	1702,0	29,5	1,0	18
CA50	1710,0	29,5	1,0	18
CA50	1718,0	29,5	1,0	18
CA50	1726,0	29,5	1,0	18
CA50	1734,0	29,5	1,0	18
CA50	1742,0	29,5	1,0	

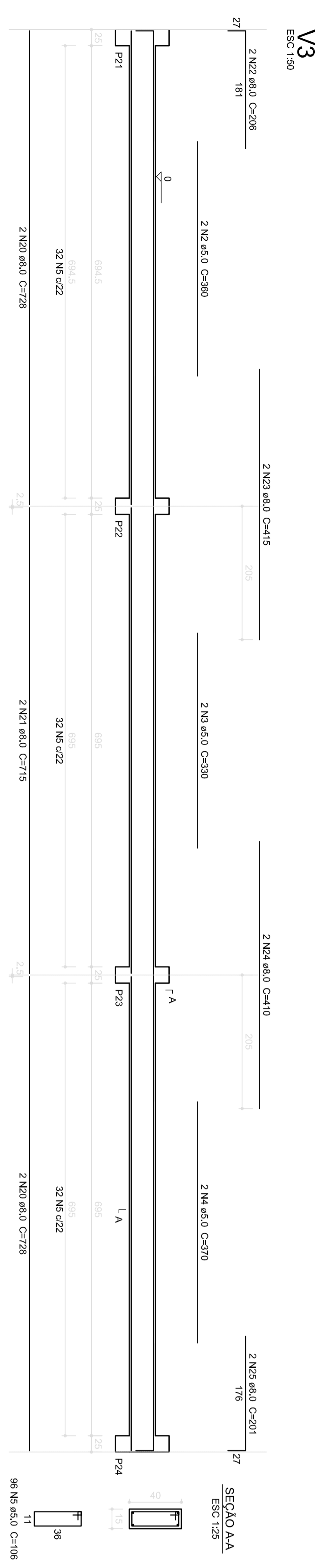




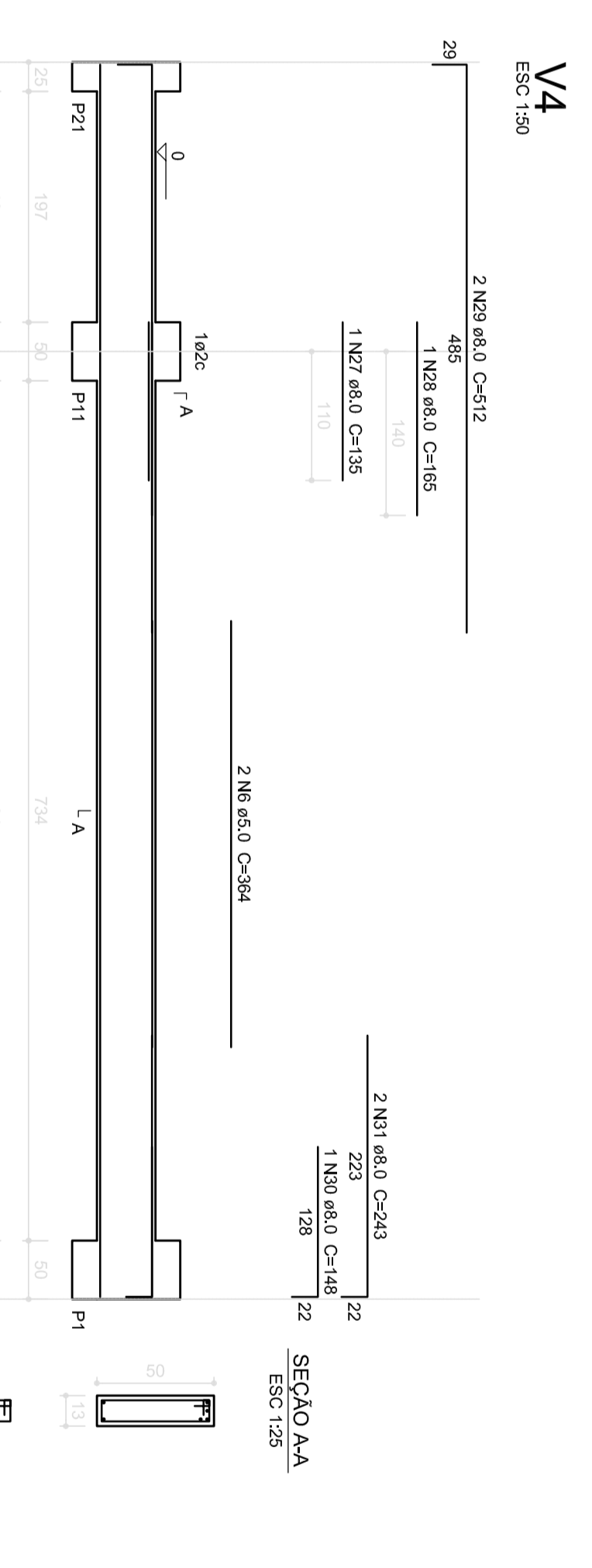
V1  
Esc: 1/50



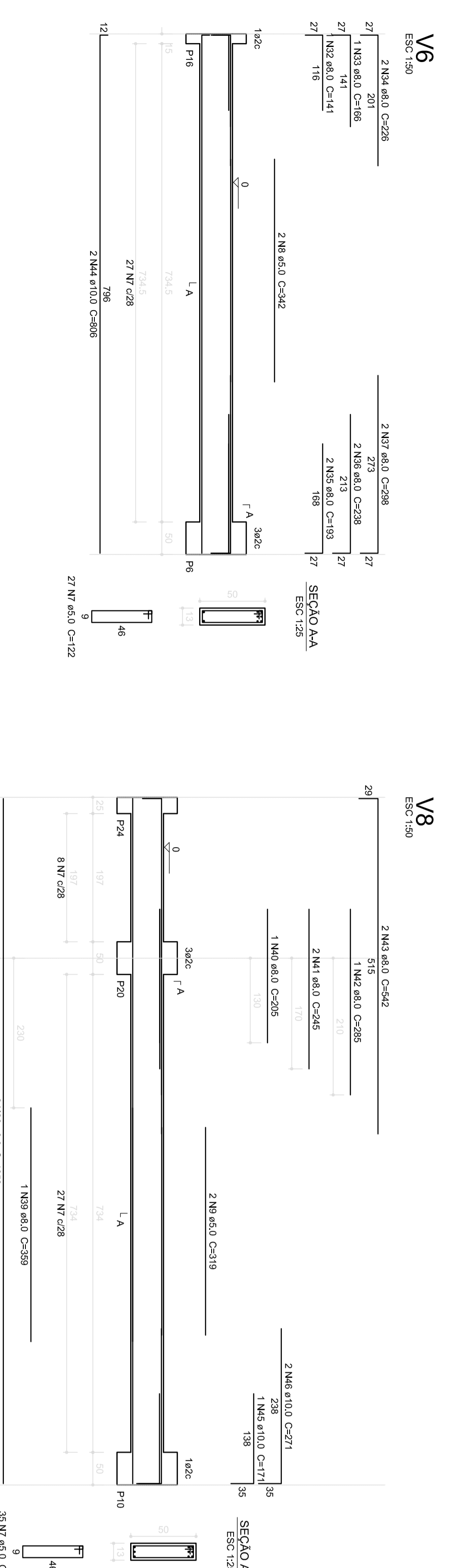
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Esc: 1/50



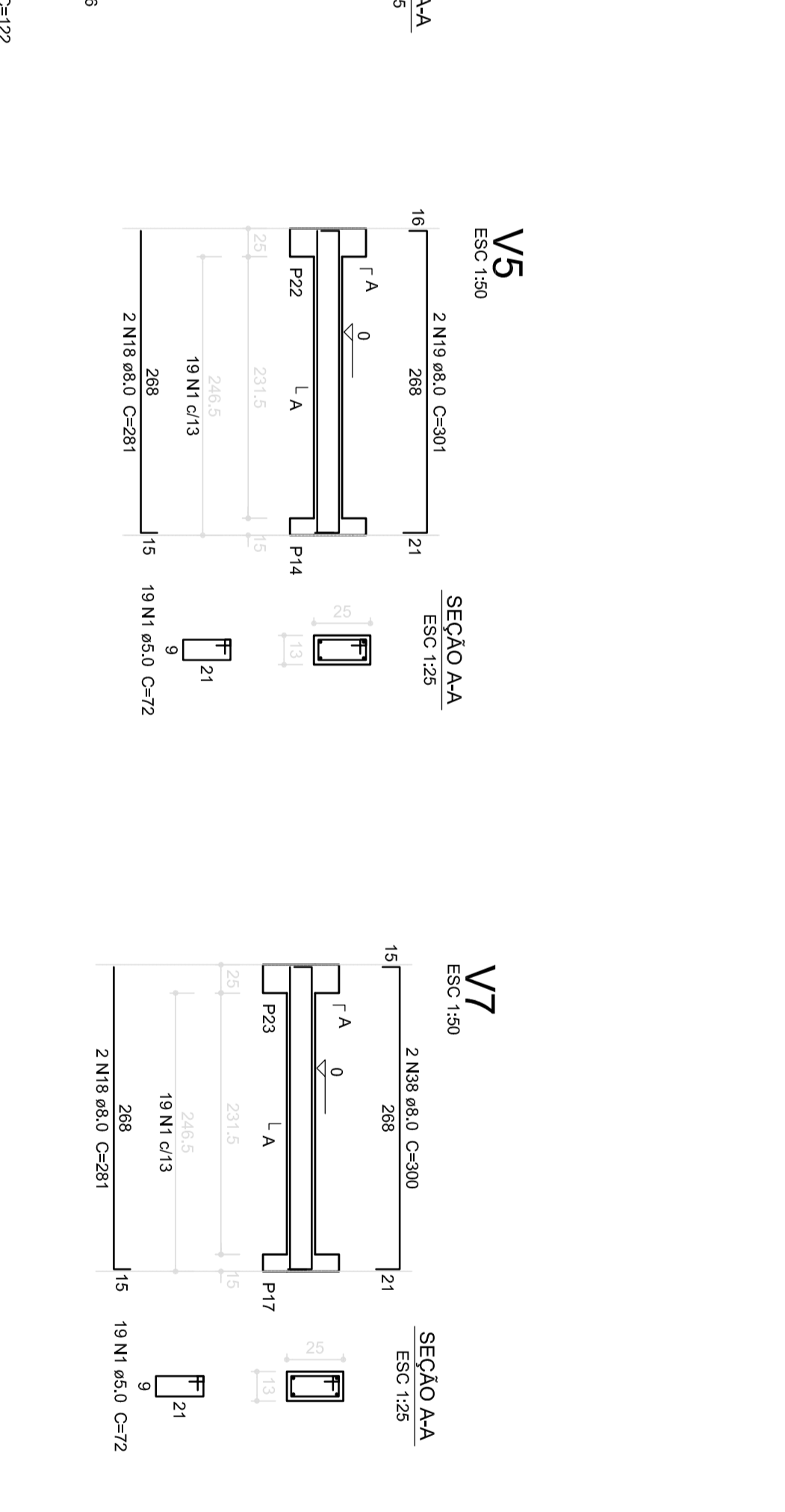
V3  
Esc: 1/50



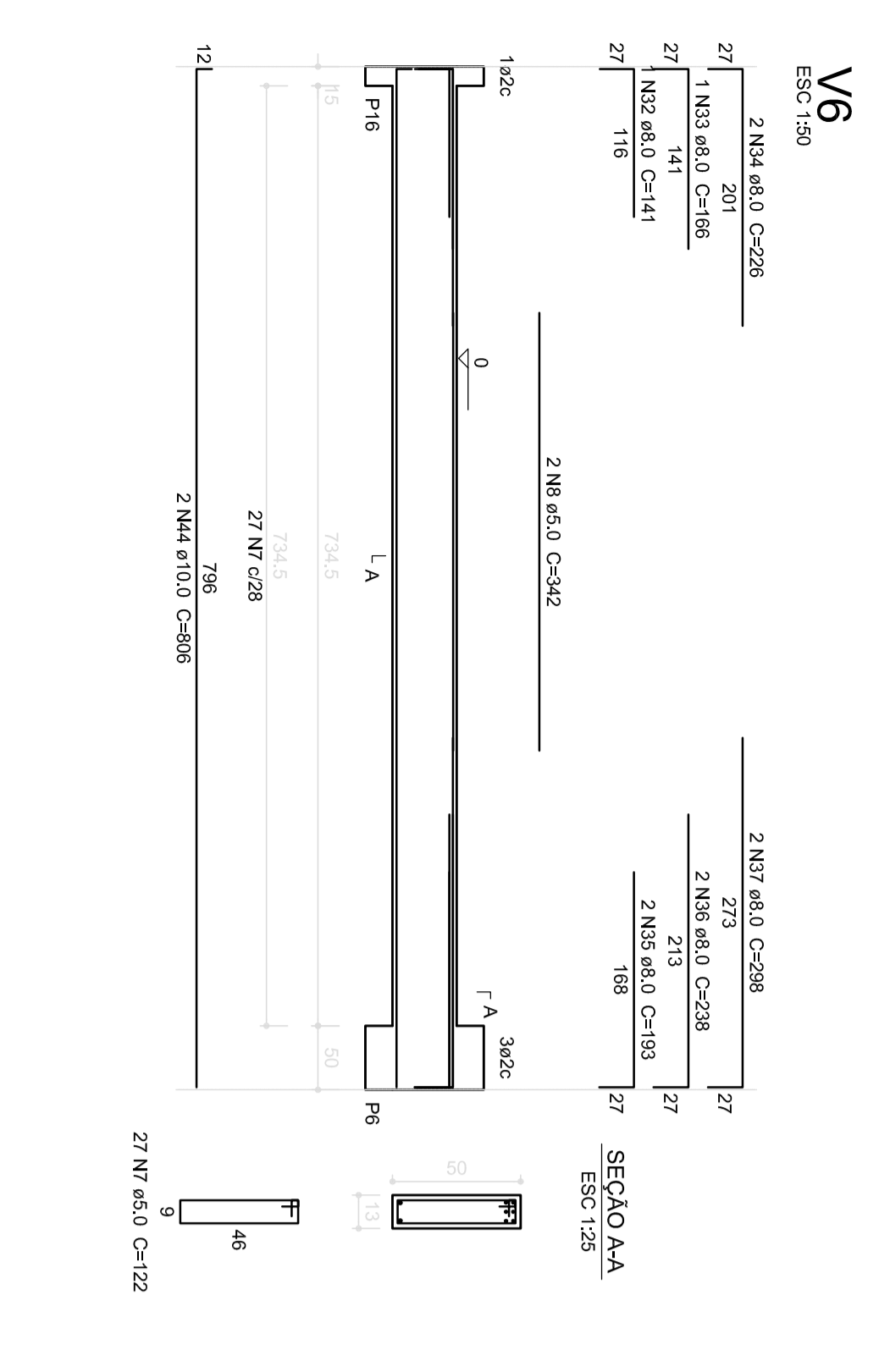
V4  
Esc: 1/50



V6  
Esc: 1/50



V7  
Esc: 1/50



V8  
Esc: 1/50

**Resumo do aço**

Aço	Dim. (mm)	Compr. (m)	Vol. (m³)
CA50	10,2	375,1	144,2
CA50	8,0	47,7	15,4
CA50	5,0	518	78,5
CA50	10,24		
CA50	7,82		

Volume de concreto (C-20) = 479 m³  
Área da forma = 34,45 m²

**1** VIGAS NÍVEL 000  
ESCALA: INDICADA

**FND E Educação**  
Ministério da Educação

**PROJETO PADRÃO - FND E**

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PROJETO DE ESTRUTURA

**ESCOLA 12 SALAS DE AULA**

BLOCO B - PEDAGÓGICO

VIGAS NÍVEL 000

**SCV**

10/12