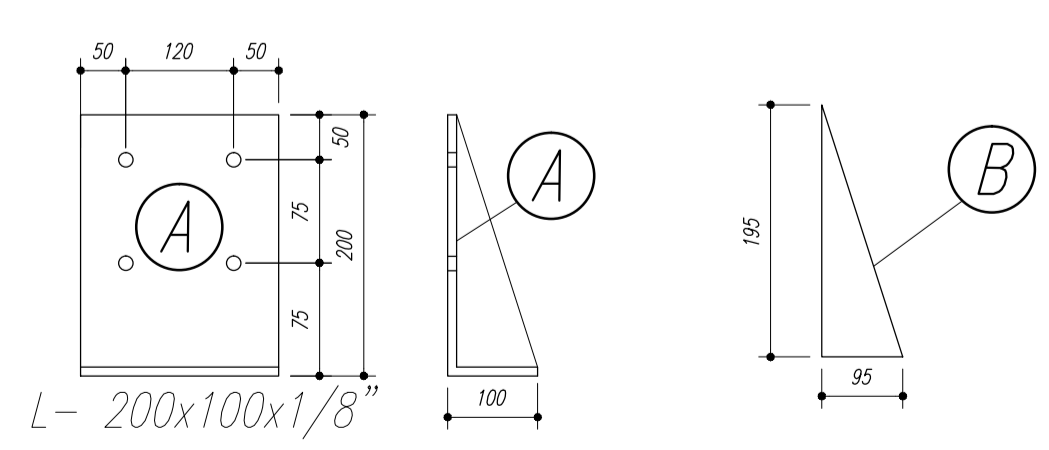
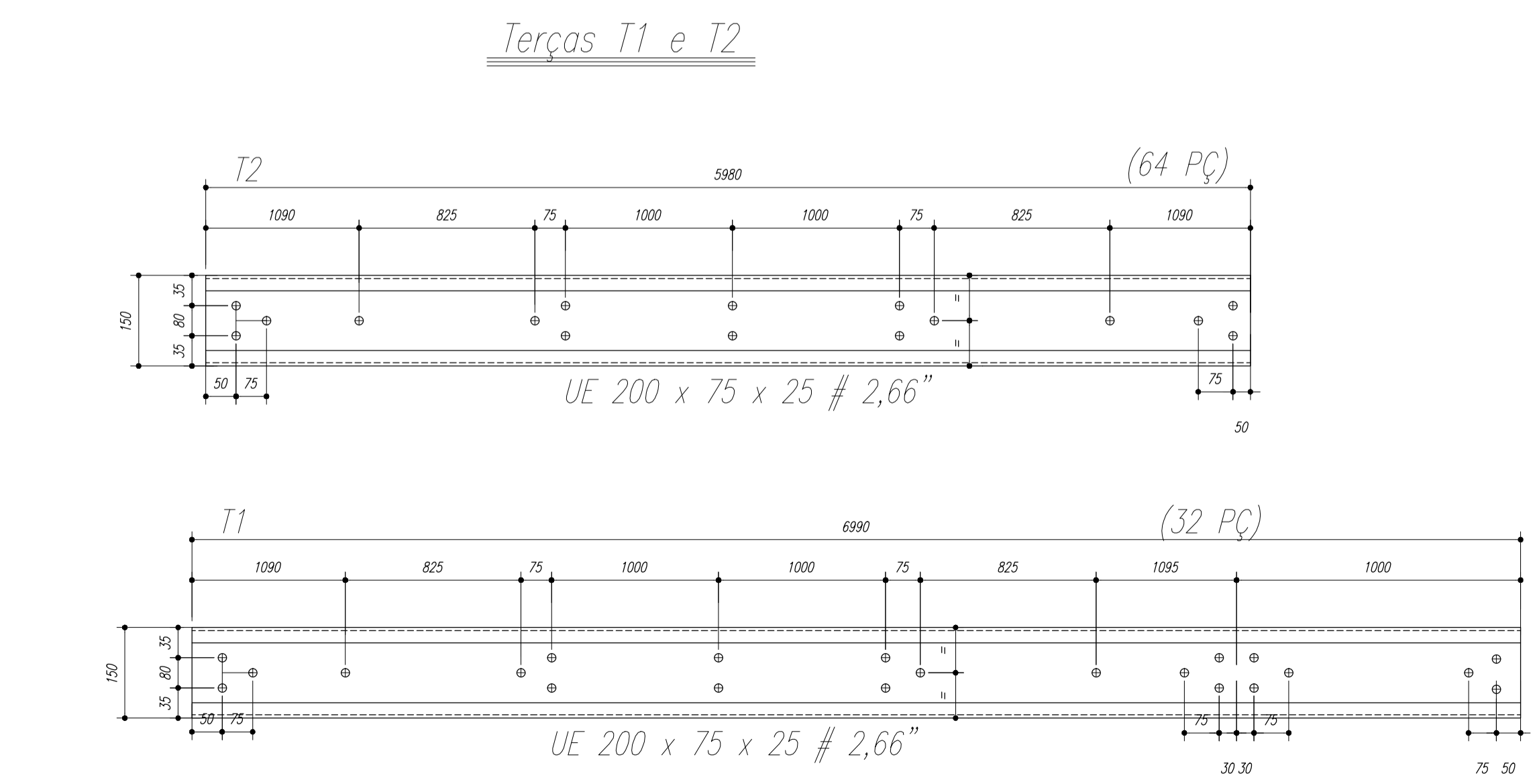


PESO TOTAL			
Pos	Qtd	Descrição x peso	Aço
6	14	PEL 35x35x3,00mm	ASTM A36
5	224	PEL 35x35x3,00mm	ASTM A36
4	14	PEL 150x35x3,35mm	ASTM A36
3	14	PEL 150x35x3,35mm	ASTM A36
2	14	PEL 150x35x3,35mm	ASTM A36
1	14	PEL 150x35x3,35mm	ASTM A36
E	126	Varao 12,5	ASTM A36
D	14	CH#12,5x250x1970	ASTM A36
Gr	144	Varao 10,0	ASTM A36
C	172	Ch#2,66x70x70	ASTM A36
EB	32	Varao U 50	ASTM A36
E6	18	PEL U 50	ASTM A36
E5	36	PEL U 50	ASTM A36
E4	36	Varao 12,5	ASTM A36
E3	36	Varao 12,5	ASTM A36
E2	108	Varao 12,5	ASTM A36
E1	36	Varao 12,5	ASTM A36
MF	224	PEL U 76	ASTM A36
SMF	112	PEL U76	ASTM A36
B	112	Ch#1/8"x95x195	ASTM A36
A	112	L 200x100#1/8"	ASTM A36
ED	24	Varao 12,5	ASTM A36
ED1	4	Varao 12,5	ASTM A36
CX4	16	Varao 10,0	ASTM A36
CX3	8	Varao 10,0	ASTM A36
CX2	40	Varao 10,0	ASTM A36
CX1	8	Varao 10,0	ASTM A36
T2	64	UL200x75x25#2,66	ASTM A36
T1	32	UL200x75x25#2,66	ASTM A36



- NOTAS:**
- 1- MEDIDAS EM MILÍMETROS,
  - 2- CONFERIR COTAS NO LOCAL DA EXECUÇÃO ANTES DA FABRICAÇÃO E MONTAGEM DAS PEÇAS METÁLICAS.
  - 3- PARA SOLDAR USAR ELETRODO REVESTIDO E 7018 / MIG-MAG ER 7056
  - 4- PARAFUSOS E PORCAS ASTM A 325 - TIPO 1
  - 5- AS COTAS FORAM TIRADAS EM CAMPO DEVENDO SER CONFERIDA ANTES DA FABRICAÇÃO E MONTAGEM.
  - 6- TRELIÇAMENTO DOS PILARES, DIAGONAIS E MONTANTES POR DENTRO.
  - 7- TRELIÇAMENTO DOS ARCOS, DIAGONAIS E MONTANTES POR FORA.
  - 8- UTILIZAR O CONTRAVENTAMENTO DOS PILARES Vx SO NAS EXTREMIDADES.
  - 9- CASO DE DUVIDA CONSULTAR O ENGENHEIRO CALCULISTA.

**PREPARO DA SUPERFÍCIE METÁLICA**

1- LIMPEZA MECANICA NORMA SIS - S13

2- APLICAR DUAS DEMÃOS DE TINTA EPOXI MASTIC CURADO COM POLIAMIDA SENDO A 1ª DEMÃO PIGMENTADA COM ALUMÍNIO E A 2ª DEMÃO NA COR DO ACABAMENTO FINAL (TIPO OXIBAR E/OU SUMASTIC), COM ESPESURA DA PELÍCULA SECA TOTAL APLICADA DE 240MC.

FNE

Tãc.ã

BRASIL

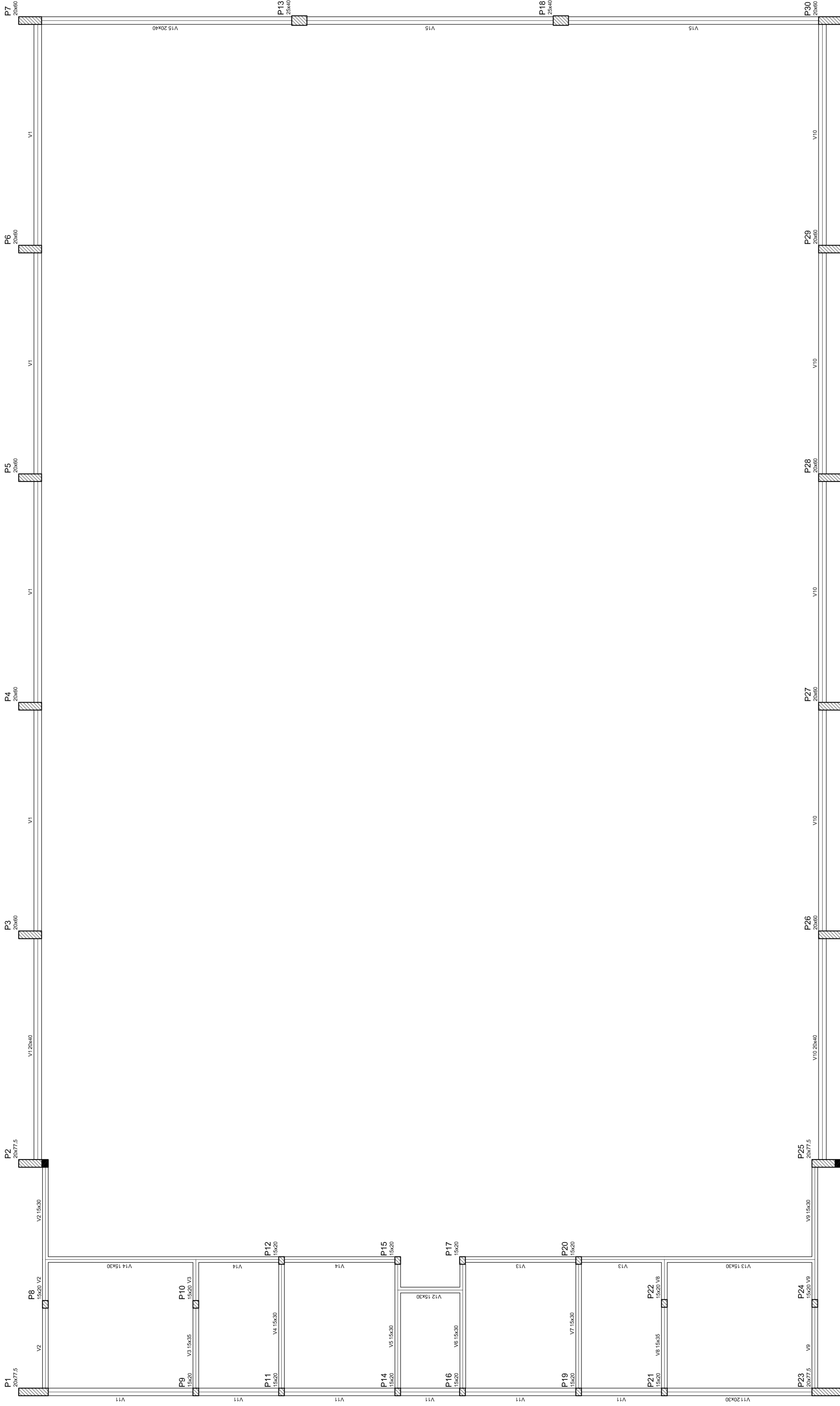
QUADRA ESCOLAR 02

PROJETO ESTRUTURAL

OUVUWUWU CGEST - C[1]ãããã Geral de Infraestrutura Educacional	OUVUWUWU OUVUWUWU	EST	ESCALA INDICADA PRANCHA 02/11
FORMATO A1 (841 X 594)	ESCALA INDICADA AGOSTO/2012		

Nome	Spec.	V. Max	Quant	Unid
V1	20x40	0	0	0
V2	15x35	0	0	0
V3	15x30	0	0	0
V4	15x30	0	0	0
V5	15x30	0	0	0
V6	15x30	0	0	0
V7	15x30	0	0	0
V8	15x30	0	0	0
V9	15x30	0	0	0
V10	20x30	0	0	0
V11	20x30	0	0	0
V12	15x30	0	0	0
V13	15x30	0	0	0
V14	15x30	0	0	0
V15	20x40	0	0	0

Características dos materiais	
Ar	Ar 200
Ar	Ar 250
Ar	Ar 25000



## PROJETO PADRÃO - FNDE

MUNICÍPIO – UF: \_\_\_\_\_  
 PROPRIETÁRIO: \_\_\_\_\_  
 ENDEREÇO: \_\_\_\_\_

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

D/LFO: \_\_\_\_\_  
 CREA: \_\_\_\_\_  
 RA: \_\_\_\_\_

OBSERVAÇÕES:

### QUADRA COBERTA

#### PROJETO ESTRUTURAL

CORRELAÇÃO: \_\_\_\_\_  
 CGEST - Coordenação Geral de Infraestrutura Educacional

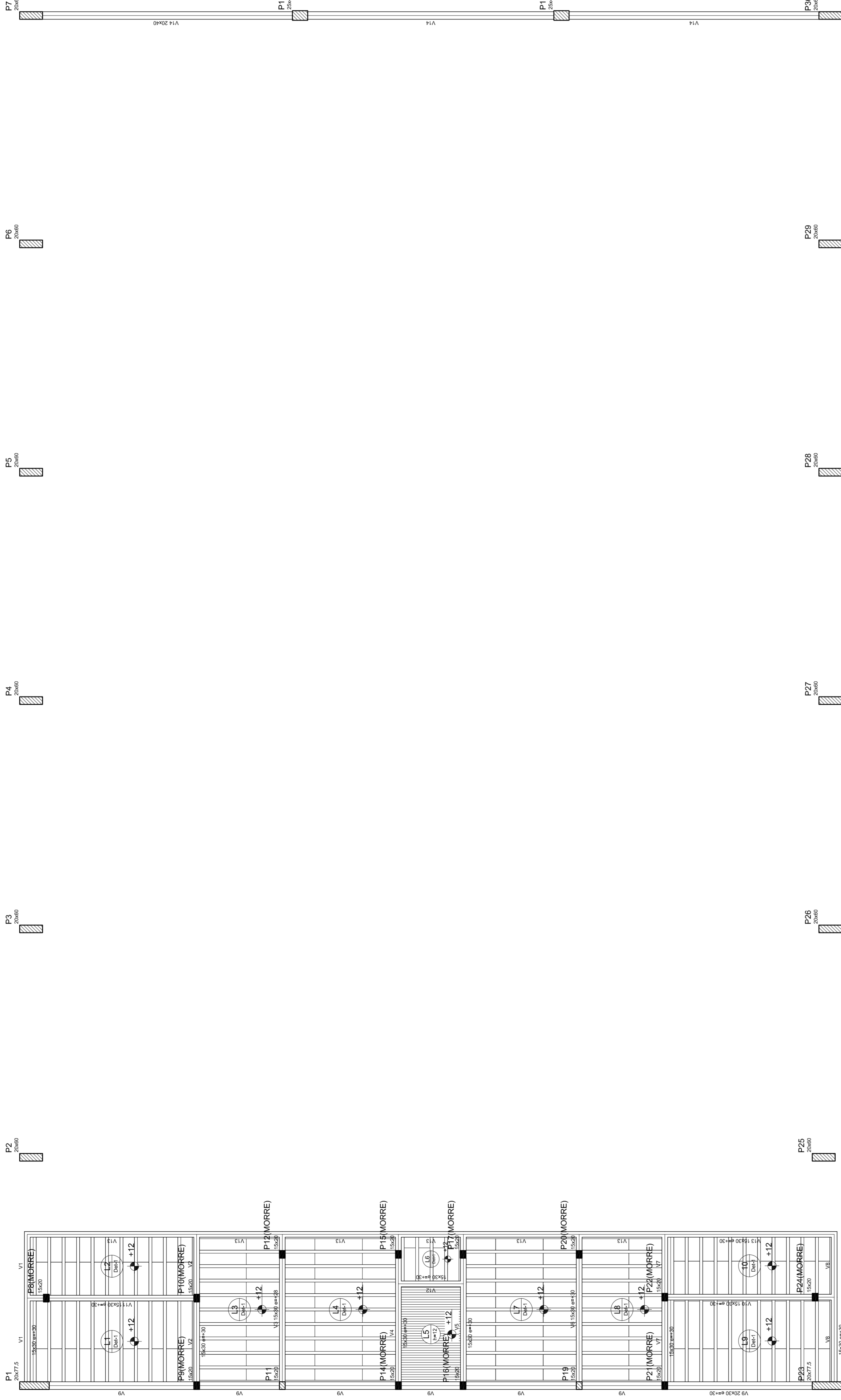
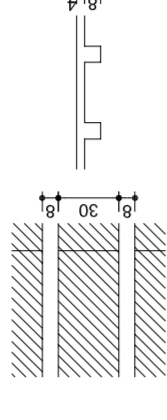
REVISÃO: R.00  
 DATA EMISSÃO: 1/1/25  
 FRANÇA: 03/11  
 DATA EMISSÃO: JULHO/2011

Bloco de acabamento		Quantidade	
Detalhe	Nome	bx	br
1	EPS Unidirecional	8	30
		125	150

Nome	Seção	Altura (cm)	Comprimento (cm)	Vol. (m³)
V1	15x30	30	350	157,5
V2	15x30	30	350	157,5
V3	15x30	30	350	157,5
V4	15x30	30	350	157,5
V5	15x30	30	350	157,5
V6	15x30	30	350	157,5
V7	15x30	30	350	157,5
V8	15x30	30	350	157,5
V9	15x30	30	350	157,5
V10	15x30	30	350	157,5
V11	15x30	30	350	157,5
V12	15x30	30	350	157,5
V13	15x30	30	350	157,5
V14	20x40	0	320	0

Considerações dos materiais	
ES	ESQ
15000	20000

Detalhe 1 (esc. 1:30)



Forma do pavimento Nivel 320



## PROJETO PADRÃO - FNDE

MUNICÍPIO - UF:  
 PROPRIETÁRIO:  
 ENDEREÇO:

PROPRIETÁRIO

RESP. TÉCNICO CREA

DLFO CREA  
 RA

OBSERVAÇÕES:

### QUADRA COBERTA PROJETO ESTRUTURAL

COORDENAÇÃO  
 CGEST - Coordenação  
 Geral de Infraestrutura  
 Educacional

EST

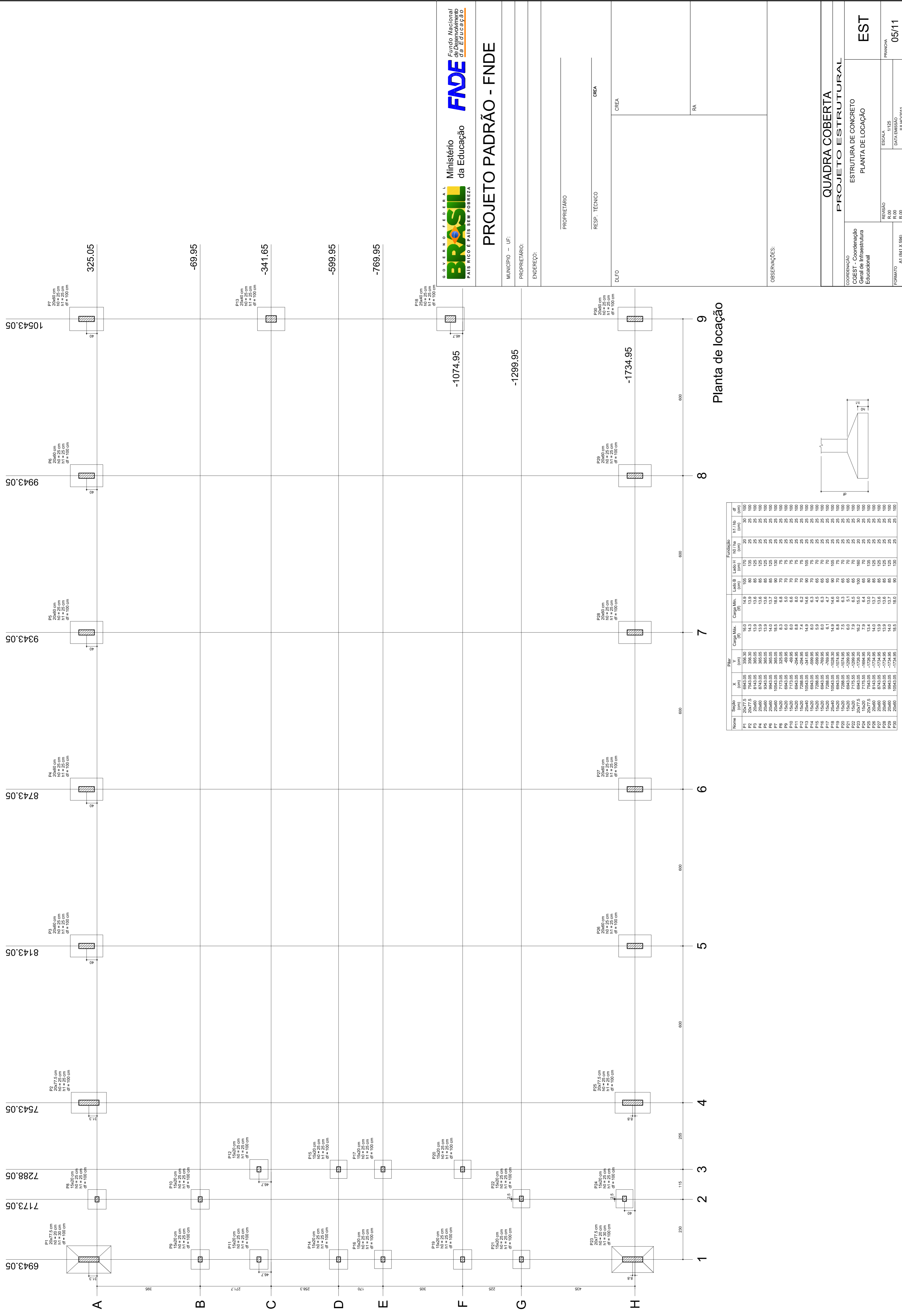
REVISÃO  
 R.00  
 R.00  
 R.00

FRANCHA  
 04/11

FORMATO  
 A1 (841 X 594)

ESCALA  
 1/125

DATA EMISSÃO  
 JULHO/2011



Ministério da Educação  
Fundação Nacional de Desenvolvimento da Educação

## PROJETO PADRÃO - FNDE

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MUNICÍPIO – UF: \_\_\_\_\_

PROPRIETÁRIO: \_\_\_\_\_

ENDEREÇO: \_\_\_\_\_

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PROPRIETÁRIO: \_\_\_\_\_

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

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DUFO: \_\_\_\_\_ CREA: \_\_\_\_\_

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

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OBSERVAÇÕES: \_\_\_\_\_

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**QUADRA COBERTA**

**PROJETO ESTRUTURAL**

ESTRUTURA DE CONCRETO

PLANTA DE LOCAÇÃO

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COORDENAÇÃO: CGEST - Coordenação Geral de Infraestrutura Educacional

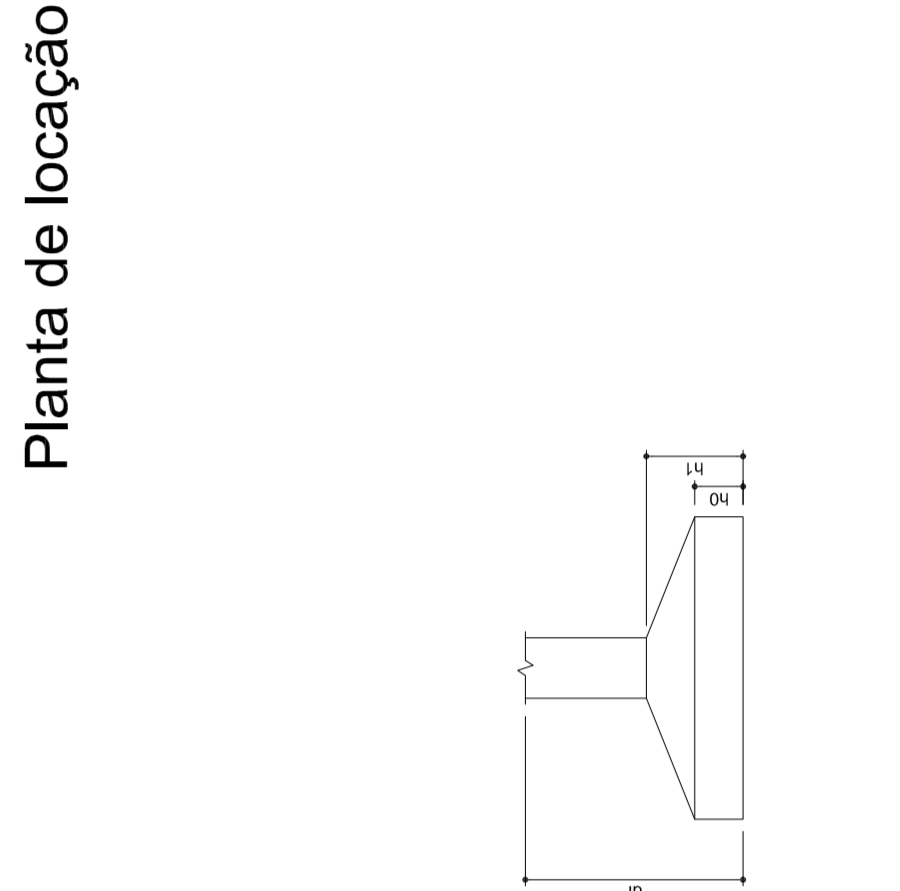
REVISÃO: R.00 R.00 R.00

ESCALA: 1/125

DATA EMISSÃO: JULHO/2011

FRANCA: 05/11

FORMATO: A1 (841 X 594)



Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (t)	Carga Mín. (t)	Fundação			
						Lado A (cm)	Lado B (cm)	Lado H (cm)	H / ha (cm)
P1	20x77,5	804,05	14,9	15,0	14,3	80	135	25	25
P2	20x77,5	7543,05	356,30	13,9	13,6	85	125	25	25
P3	20x60	8143,05	365,05	13,9	13,6	85	125	25	25
P4	20x60	8943,05	365,05	13,9	13,6	85	125	25	25
P5	20x60	8943,05	365,05	14,0	13,7	85	125	25	25
P6	20x60	8943,05	365,05	8,3	8,0	90	75	25	25
P7	20x60	7723,05	325,05	8,3	8,0	90	75	25	25
P8	15x20	6943,05	-69,95	6,0	5,0	70	75	25	25
P9	15x20	773,05	-69,95	8,0	6,6	70	75	25	25
P10	15x20	773,05	-69,95	8,0	6,6	70	75	25	25
P11	15x20	7288,05	-284,95	7,4	6,2	70	75	25	25
P12	25x40	10543,05	-341,65	14,9	14,6	90	105	25	25
P13	25x40	10543,05	-341,65	14,9	14,6	90	105	25	25
P14	15x20	7288,05	-699,95	5,9	4,5	65	75	25	25
P15	15x20	7288,05	-699,95	5,9	4,5	65	75	25	25
P16	15x20	6943,05	-769,95	8,0	6,3	85	70	25	25
P17	20x60	7288,05	-769,95	6,1	4,7	85	100	25	25
P18	15x20	7288,05	-769,95	6,1	4,7	85	100	25	25
P19	15x20	7288,05	-769,95	6,1	4,7	85	100	25	25
P20	15x20	7288,05	-769,95	6,1	4,7	85	100	25	25
P21	15x20	7288,05	-769,95	6,1	4,7	85	100	25	25
P22	15x20	7288,05	-769,95	6,1	4,7	85	100	25	25
P23	20x77,5	6943,05	-1262,20	16,2	15,0	100	160	20	30
P24	20x77,5	6943,05	-1262,20	16,2	15,0	100	160	20	30
P25	20x77,5	7543,05	-1262,20	16,2	15,0	100	160	20	30
P26	20x60	8143,05	-1262,20	13,9	13,6	85	125	25	25
P27	20x60	8143,05	-1262,20	13,9	13,6	85	125	25	25
P28	20x60	8143,05	-1262,20	13,9	13,6	85	125	25	25
P29	20x60	8943,05	-1262,20	14,0	13,7	85	125	25	25
P30	20x60	8943,05	-1262,20	14,0	13,7	85	125	25	25

RELAÇÃO DO AÇO

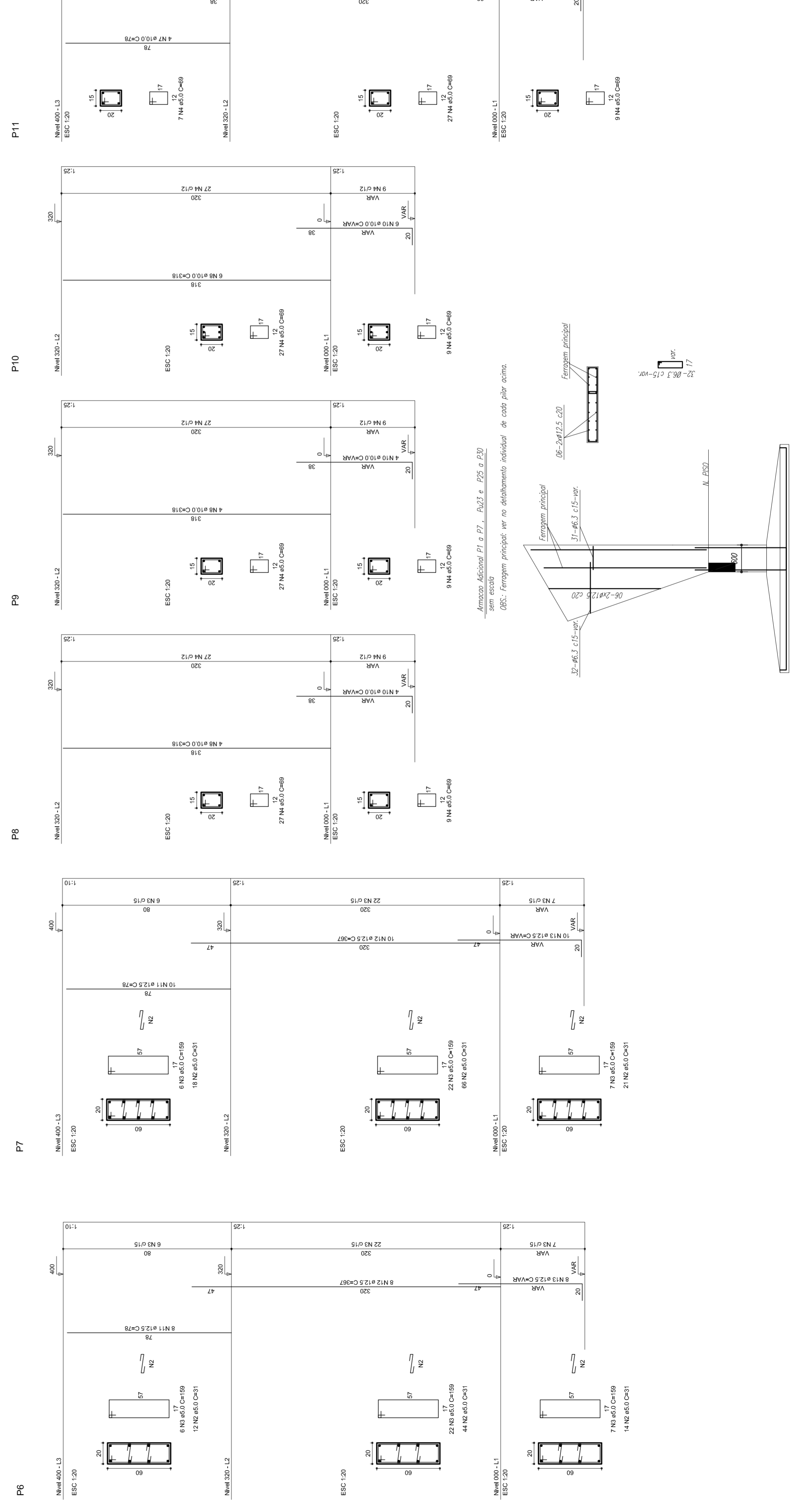
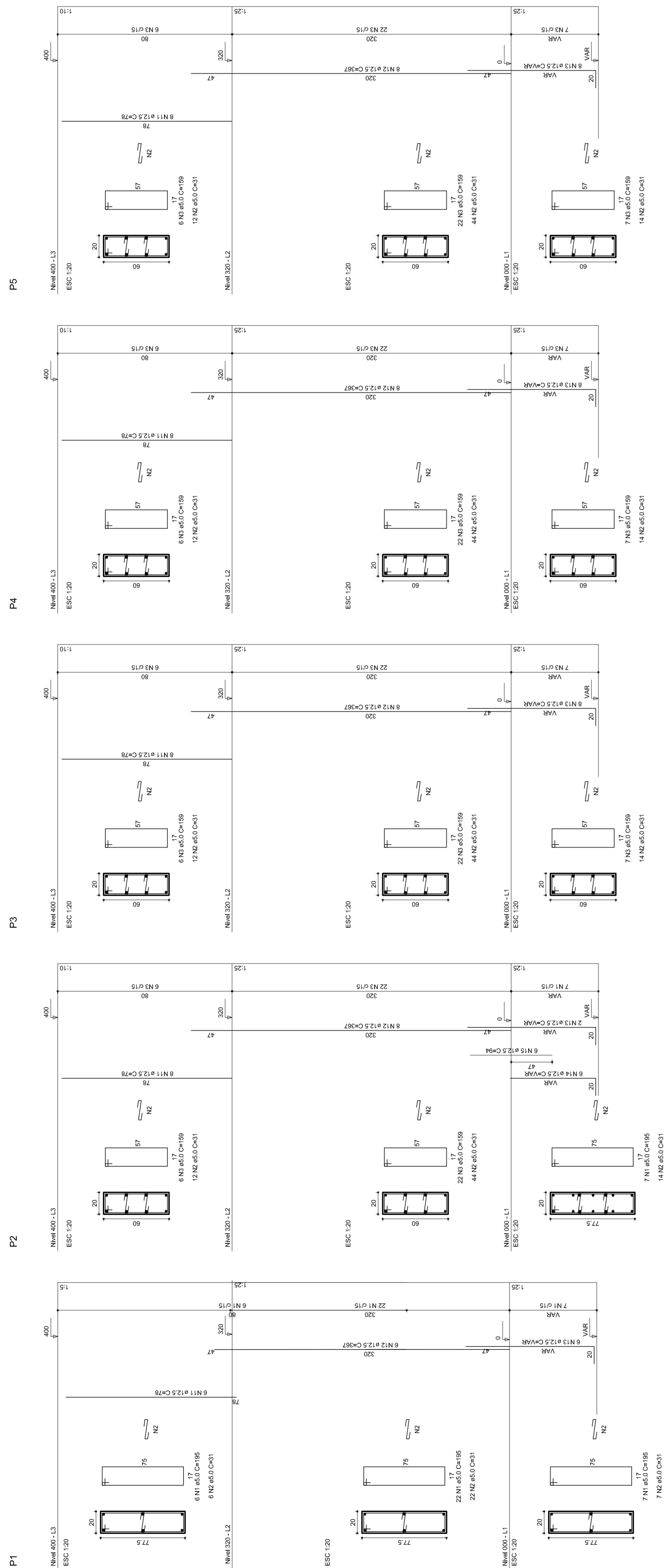
P1-L3	P3-L3
P4-L3	P6-L3
P7-L3	P11-L3
P1-L2	P3-L2
P2-L2	P5-L2
P4-L2	P8-L2
P7-L2	P11-L2
P10-L2	P15-L2
P13-L2	P14-L1
P1-L1	P3-L1
P2-L1	P5-L1
P4-L1	P8-L1
P7-L1	P11-L1
P10-L1	P12-L1
P13-L1	P14-L1

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	42	195	8190
	2	5.0	490	31	15190
	3	5.0	203	159	32277
	4	5.0	259	69	17871
	5	5.0	35	129	4515
	6	5.0	70	36	2520
	7	10.0	4	78	312
	8	10.0	26	318	8268
	9	10.0	4	358	1432
	10	10.0	30	VAR	VAR
	11	12.5	64	78	4992
	12	12.5	64	367	23488
	13	12.5	58	VAR	VAR
	14	12.5	6	VAR	VAR
	15	12.5	6	94	564

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	10.0	146.8	99.6
CA60	12.5	392.5	416.2
CA60	5.0	807.4	136.8
<b>PESO TOTAL</b>			
CA50		515.8	
CA60		136.8	

Vol. de concreto total = 5,82 m³  
Área de forma total = 85,74 m²



Ministério da Educação  
**FADE**  
Fundação Nacional de Desenvolvimento da Educação

## PROJETO PADRÃO - FNDE

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MUNICÍPIO - UF: \_\_\_\_\_

PROPRIETÁRIO: \_\_\_\_\_

ENDEREÇO: \_\_\_\_\_

PROPRIETÁRIO: \_\_\_\_\_

RESP. TÉCNICO: \_\_\_\_\_

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

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

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

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

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OBSERVAÇÕES: \_\_\_\_\_

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**QUADRA COBERTA**

**PROJETO ESTRUTURAL**

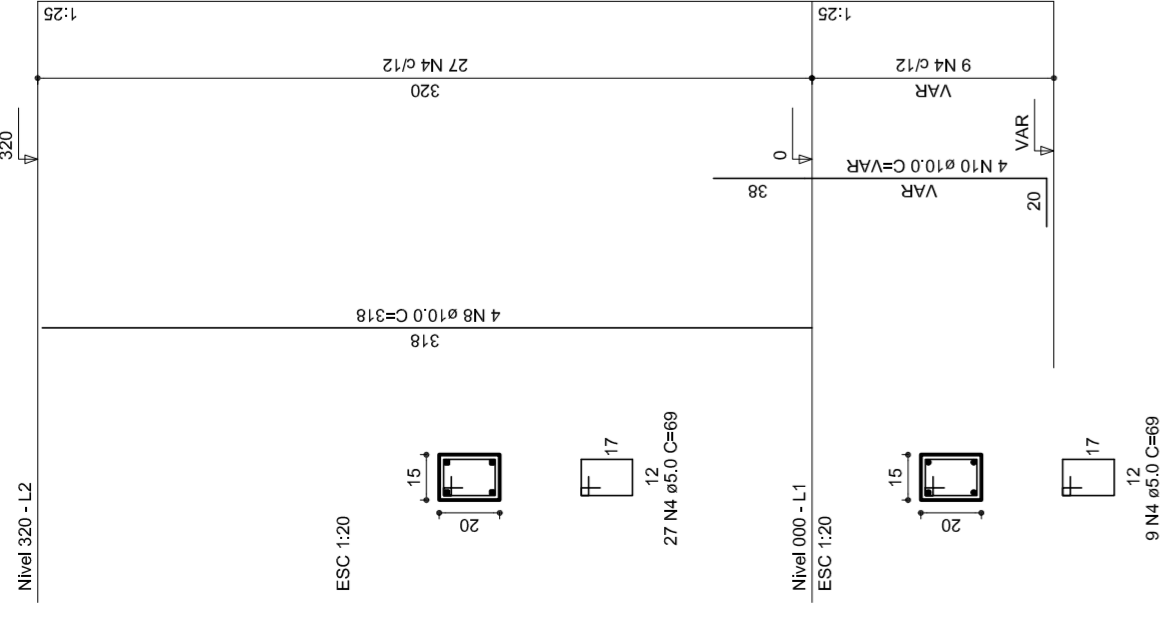
ESTRUTURA DE CONCRETO

PILARES (P1 ao P11)

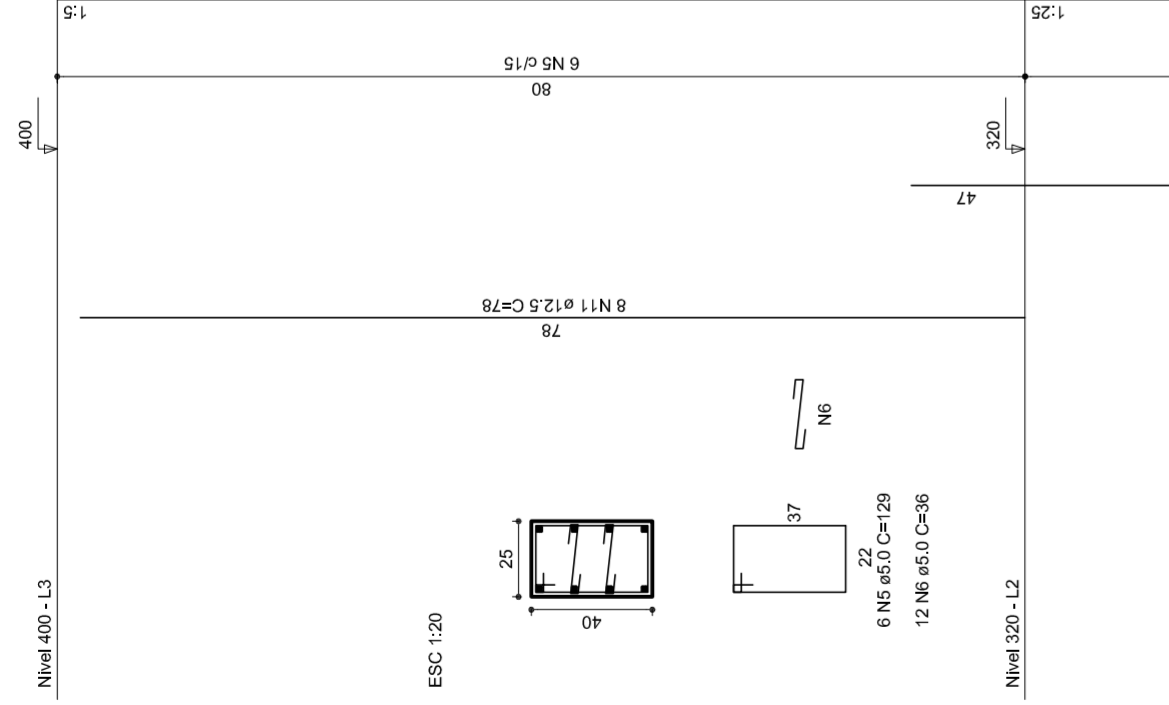
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CORRESPONDÊNCIA	ESCALA	FRANCA	06/11
CGEST - Coordenação Geral de Infraestrutura Educacional	R:00 R:00 R:00	1/125 DATA EMISSÃO	JULHO/2011
FORMATO: A1 (841 X 594)	REVISO: R:00	REVISÃO	

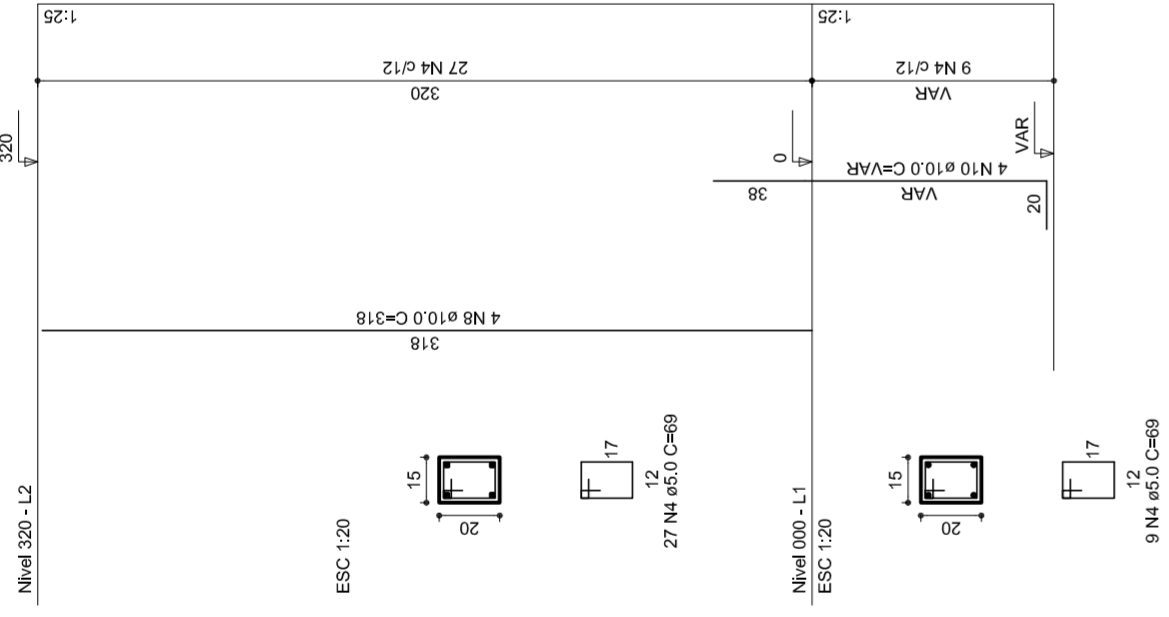
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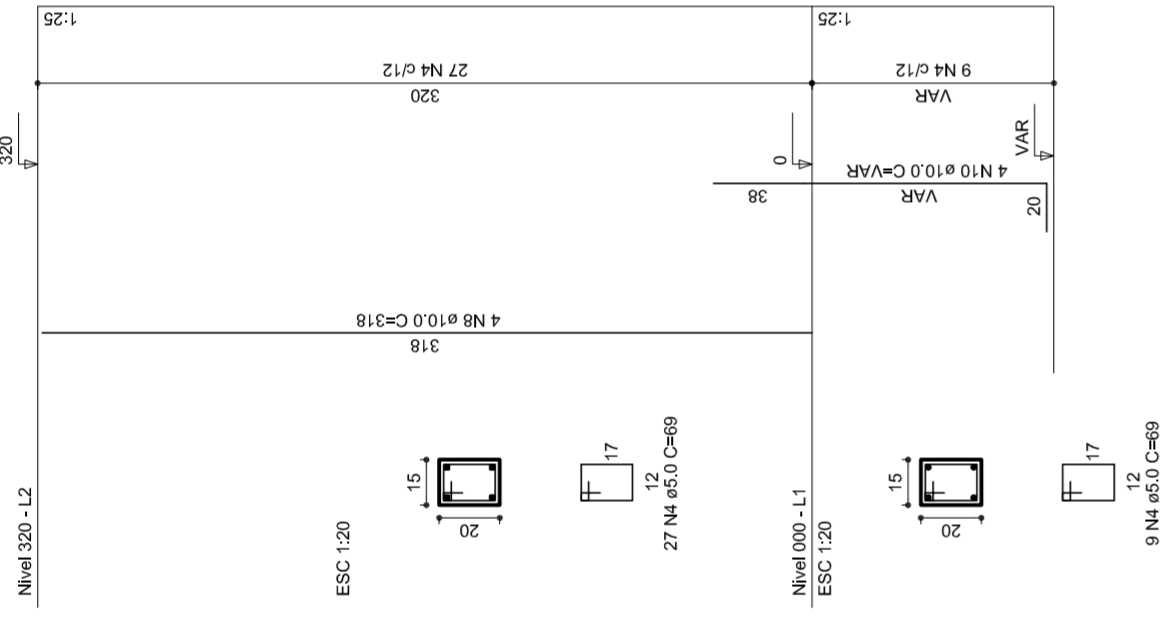
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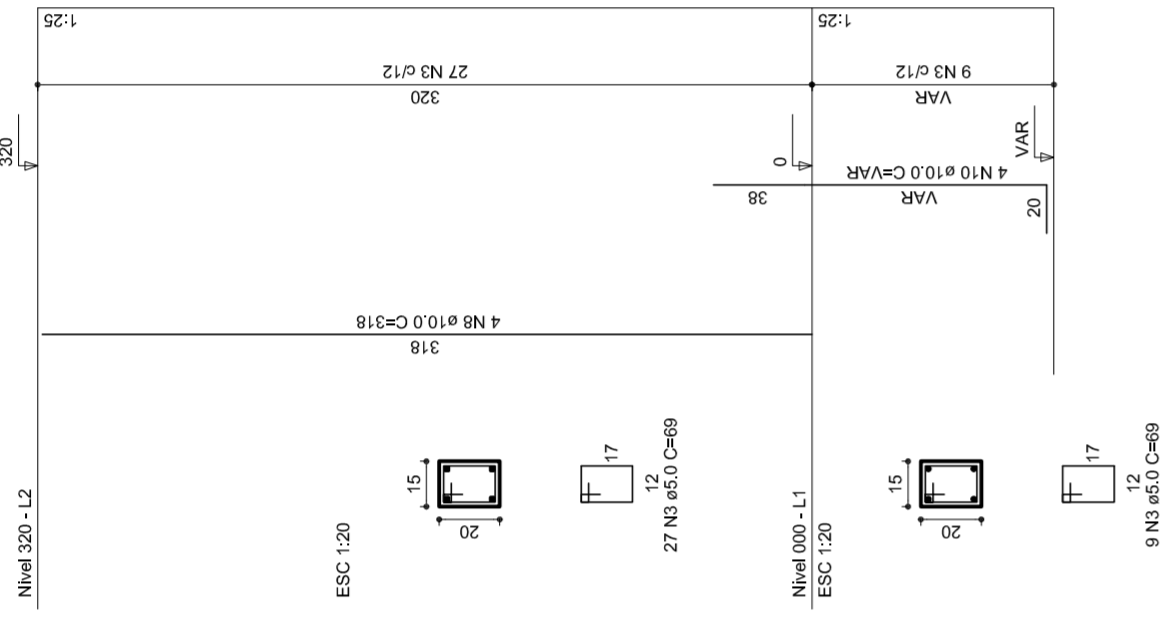
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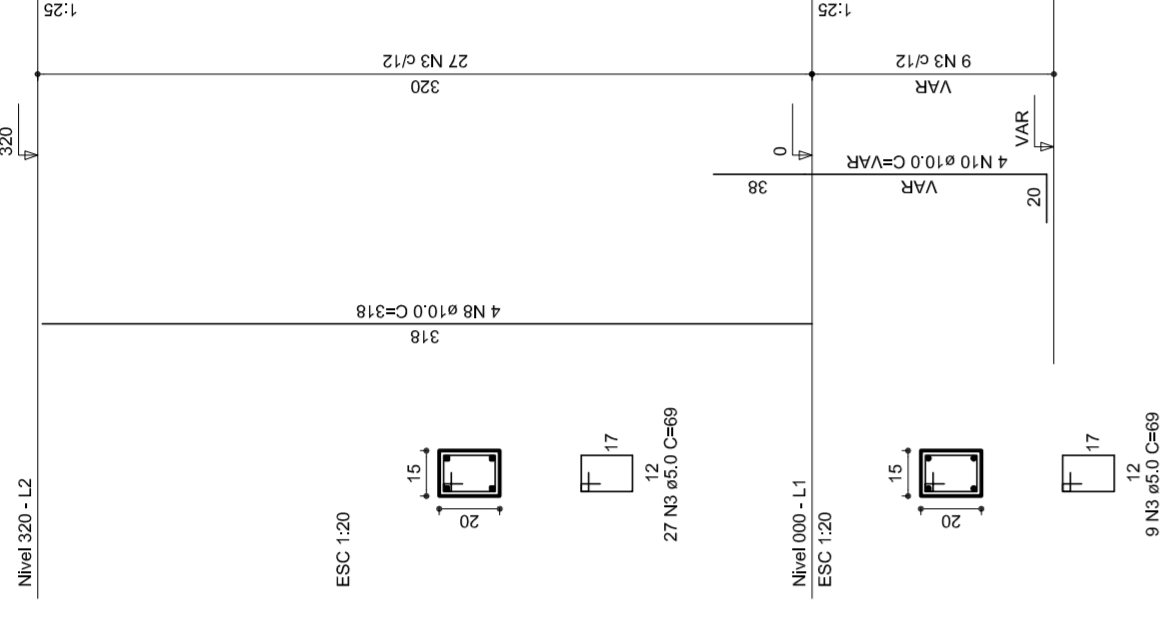
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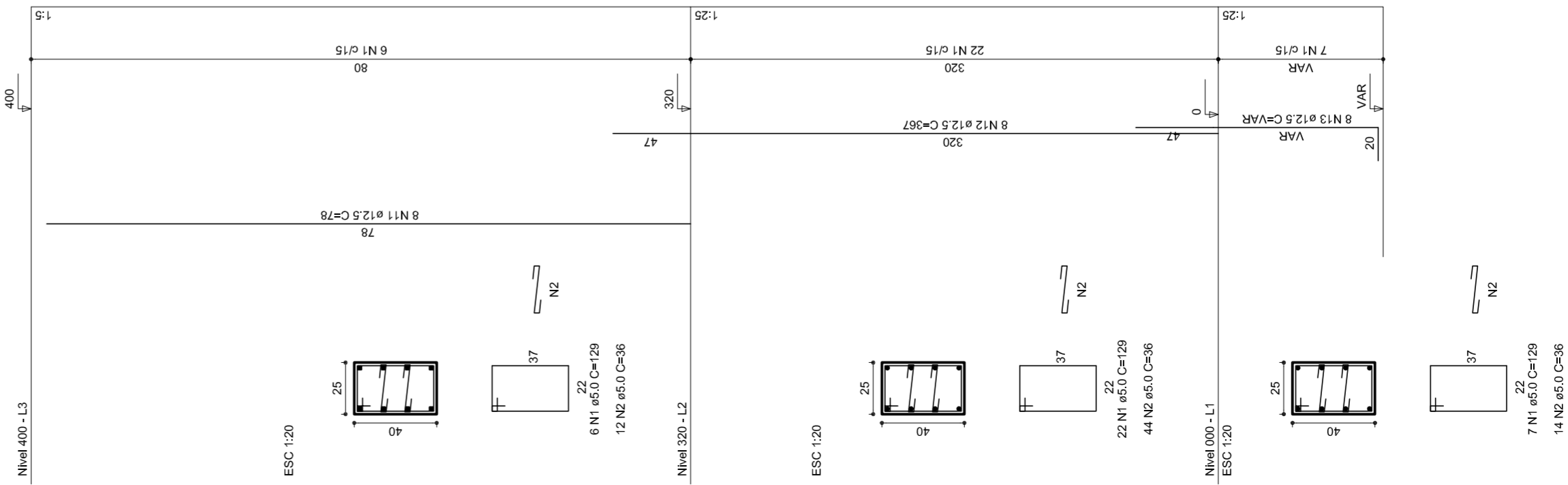
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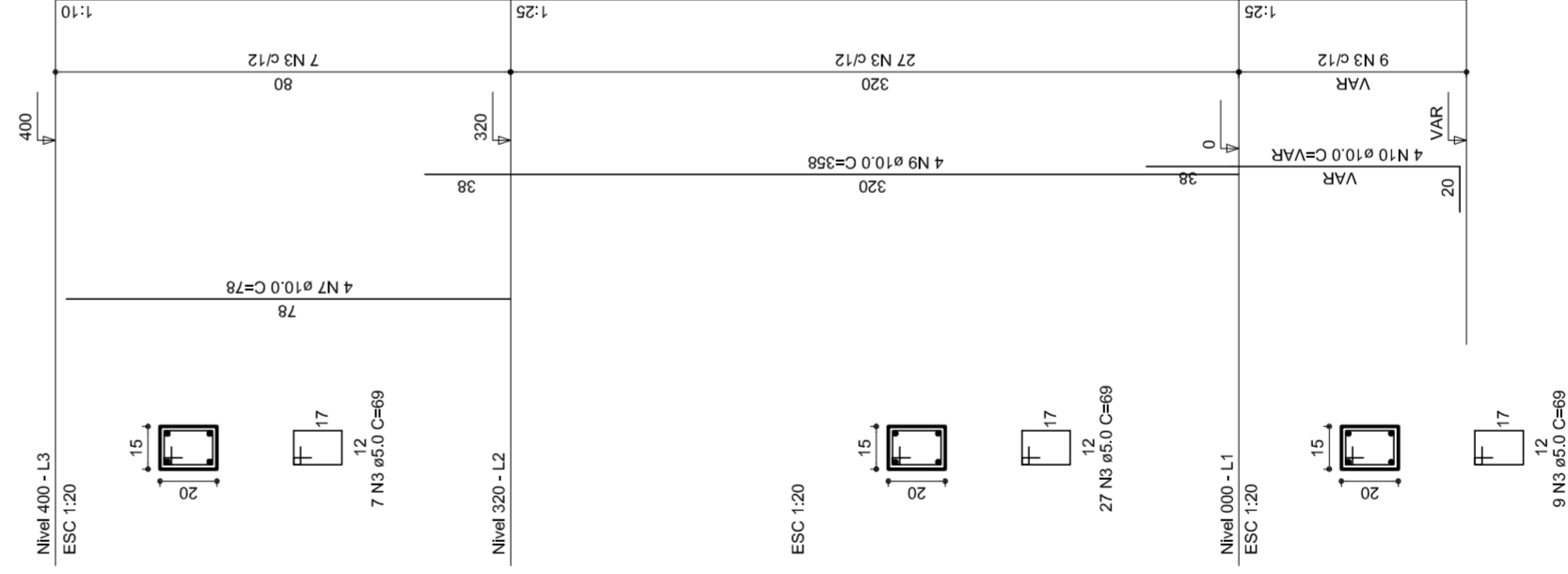
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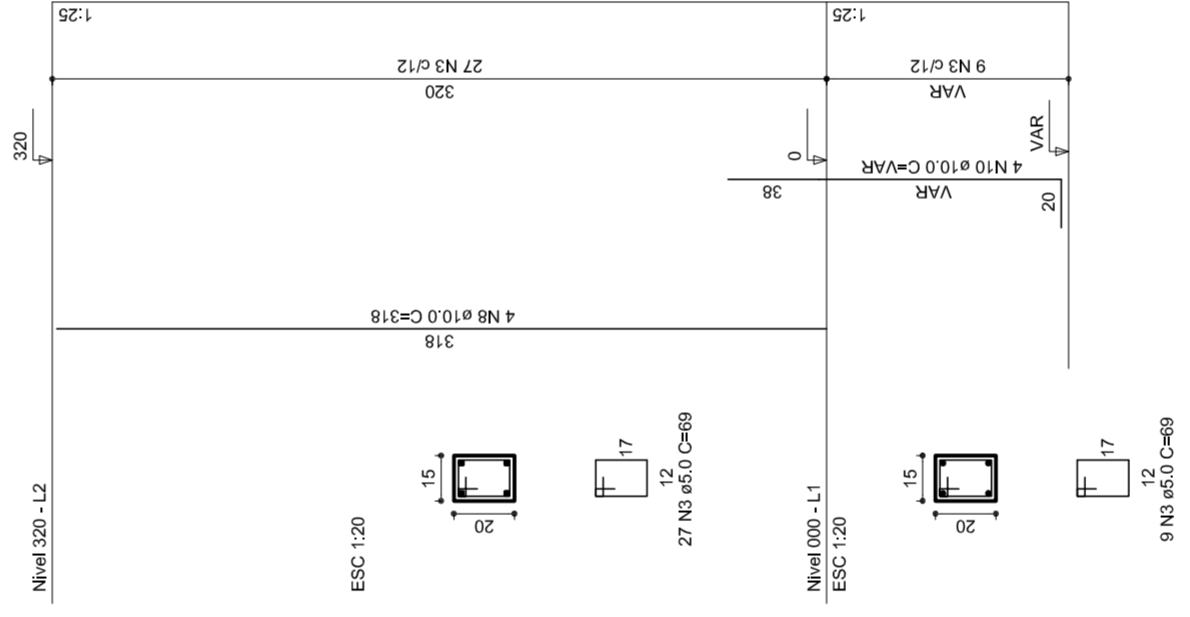
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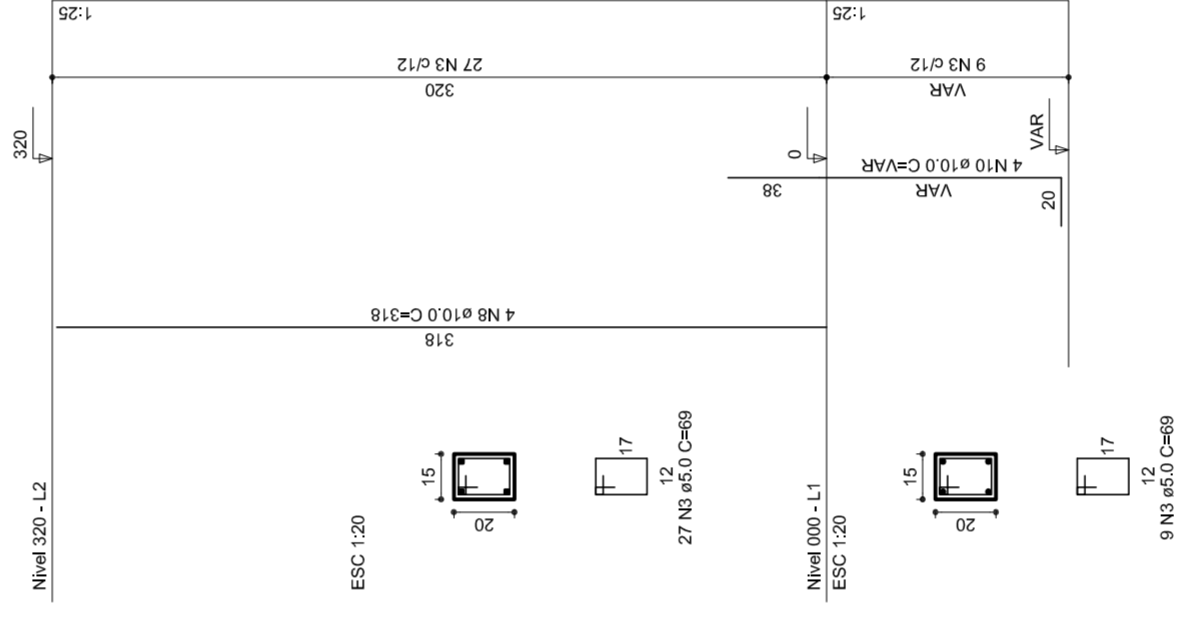
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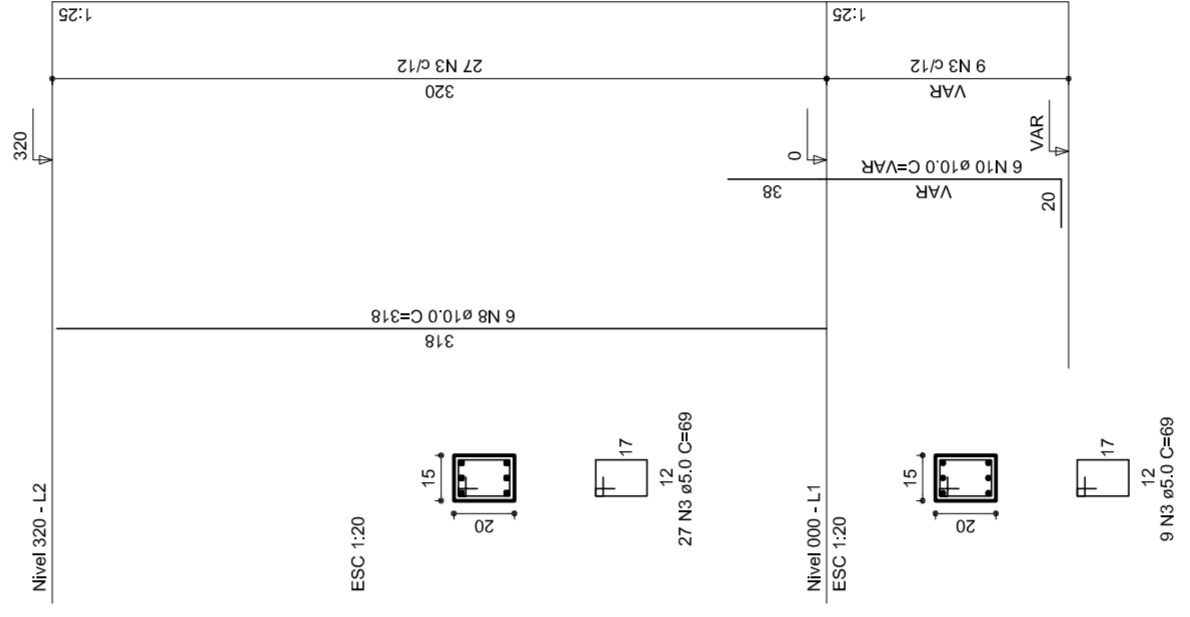
P20



P21



P22



GOVERNADOR GERAL  
**BRASIL**  
PAÍS RICO E PAÍS SEM POBREZA

Ministério da Educação  
**FADE**  
Fundação de Amparo à Pesquisa do Estado de Pernambuco

## PROJETO PADRÃO - FNDE

MUNICÍPIO – UF: PROPRIETÁRIO: ENDEREÇO: PROPRIETÁRIO: RESP. TÉCNICO: CREA:	DUFQ CREA RA OBSERVAÇÕES:
---	------------------------------------

COORDENAÇÃO  
CGEST - Coordenação  
Geral de Infraestrutura  
Educativa

ESTRUTURA DE CONCRETO  
PILARES (P12 ao P22)

REVISÃO  
R.00  
R.00  
R.00

ESCALA  
1/125  
DATA EMISSÃO  
JULHO/2011

QUADRA COBERTA  
PROJETO ESTRUTURAL

EST  
FRANCHA  
07/11

RELAÇÃO DO AÇO

P18-L3	P19-L3	P23-L3
P25-L3	P26-L3	P27-L3
P28-L3	P29-L3	P30-L3
P17-L2	P18-L2	P21-L2
P20-L2	P23-L2	P24-L2
P25-L2	P26-L2	P27-L2
P28-L2	P29-L2	P30-L2
P16-L1	P17-L1	P20-L1
P19-L1	P21-L1	P23-L1
P22-L1	P24-L1	P26-L1
P28-L1	P29-L1	P30-L1

AÇO	N	DIAM	Q	UNIT (cm)	C-TOTAL (cm)
60	1	5.0	35	129	4515
	2	5.0	70	36	2520
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	12	12.5	64	367	23488
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RESUMO DO AÇO

AÇO	DIAM	C-TOTAL (m)	PESO+10% (kg)
CA50	10.0	146.8	99.6
CA60	12.5	392.5	416.2
<b>PESO TOTAL</b>	<b>5.0</b>	<b>807.4</b>	<b>136.8</b>
CA50	515.8		
CA60	136.8		

Vol. de concreto total = 5,82 m³  
 Área de forma total = 85,74 m²

PROJETO PADRÃO - FNDE

MUNICÍPIO - UF:  
 PROPRIETÁRIO:  
 ENDEREÇO:

PROPRIETÁRIO

RESP. TÉCNICO

CREA

DILFO

CREA

RA

OBSERVAÇÕES:

QUADRA COBERTA

PROJETO ESTRUTURAL

ESTRUTURA DE CONCRETO  
 PILARES (P22 ao P30)

EST

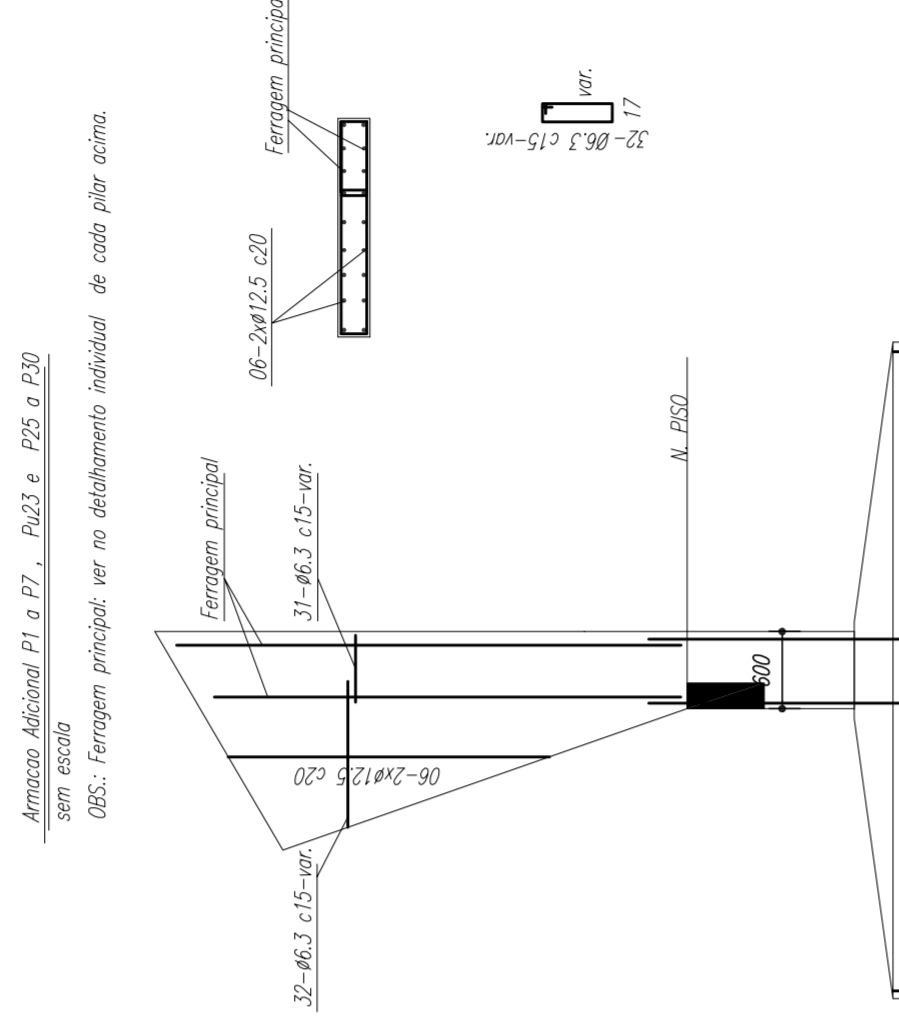
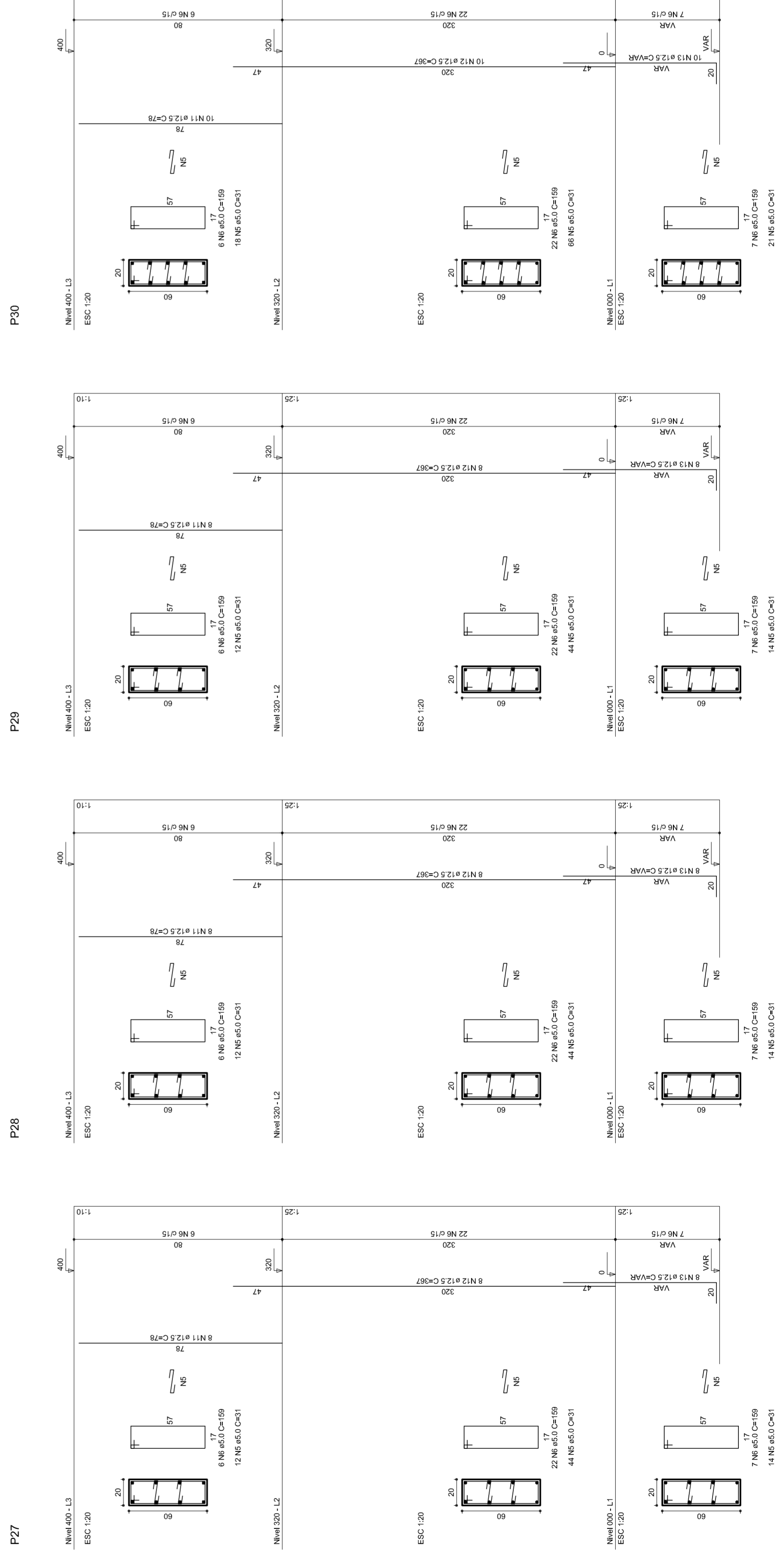
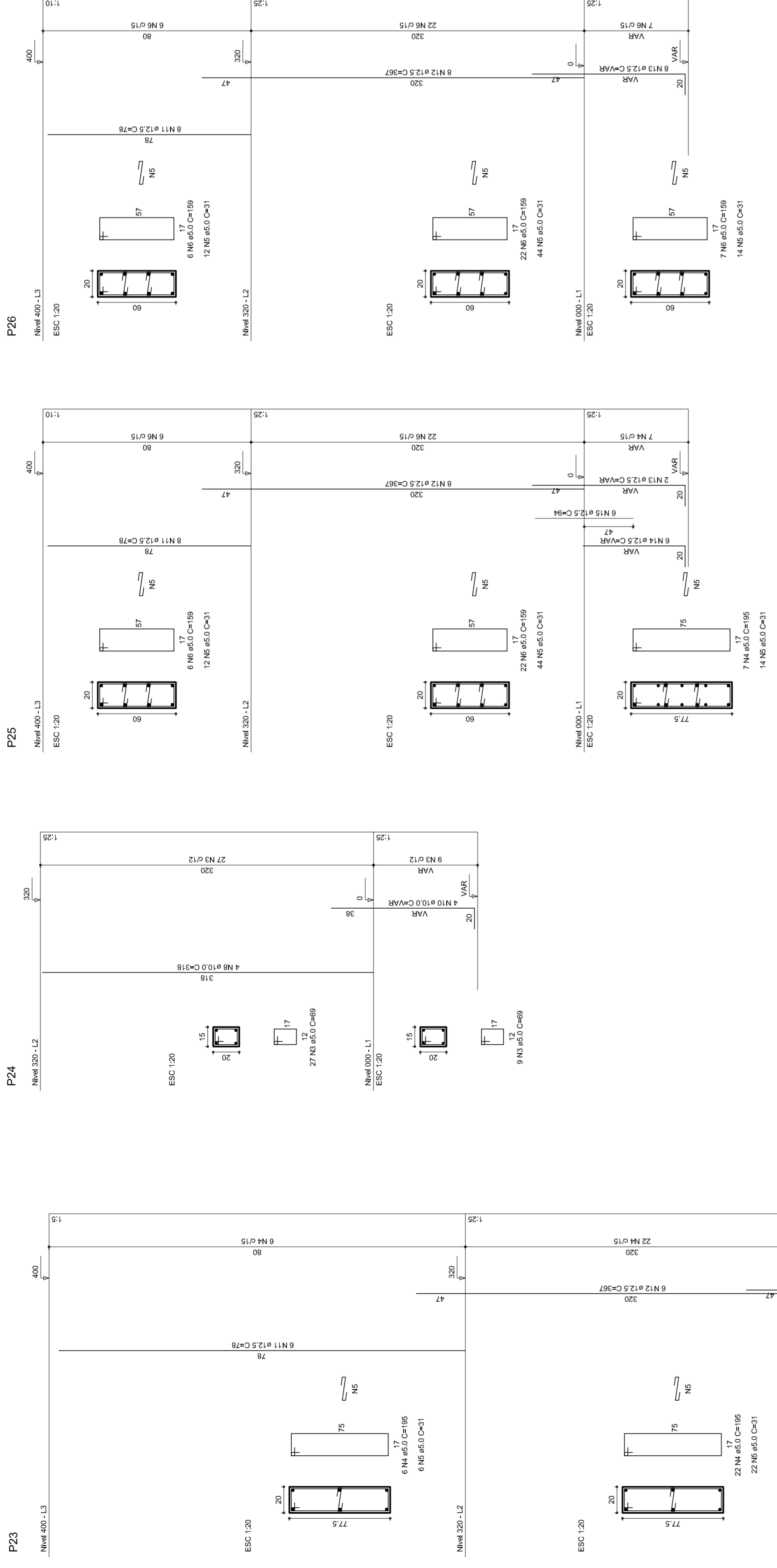
REVISÃO  
 R.00  
 R.00

FORMATO  
 AT (841 X 594)

ESCALA  
 1/25

DATA EMISSÃO  
 JULHO/2011

FRANCHA  
 08/11



Armadura Adicional P1 a P7, P23 e P25 a P30 sem escala  
 OBS: Ferroagem principal ver no detalhamento individual de cada pilar acima.





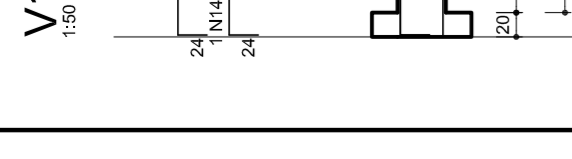
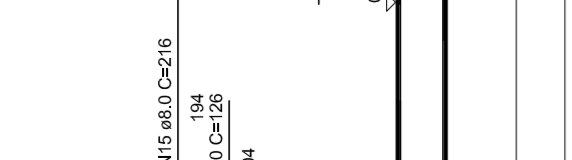
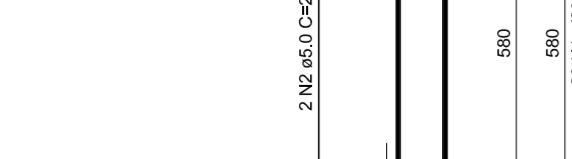
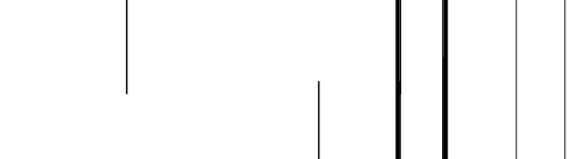
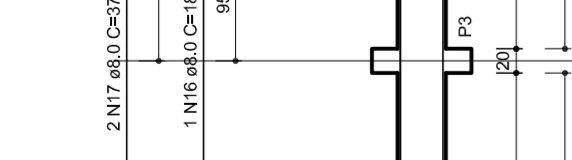
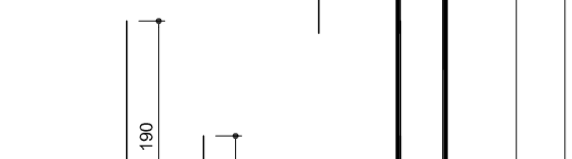
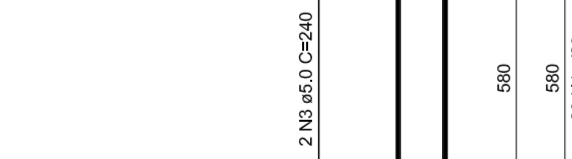
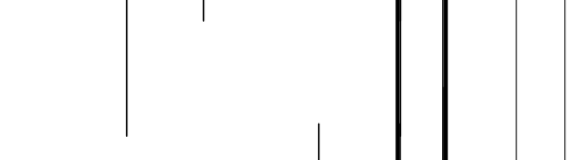
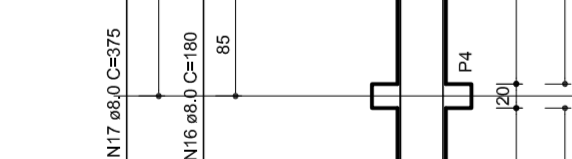
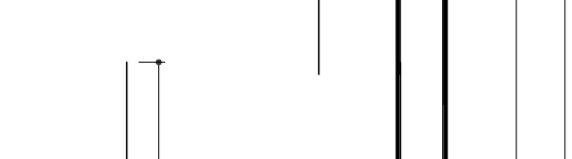
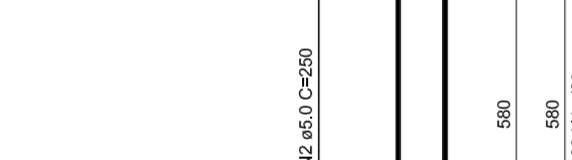
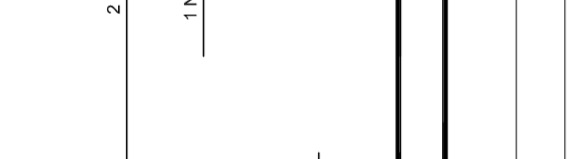
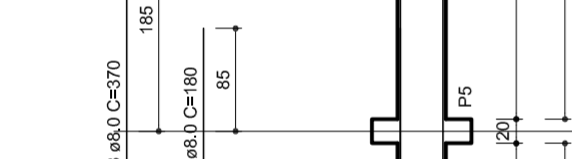
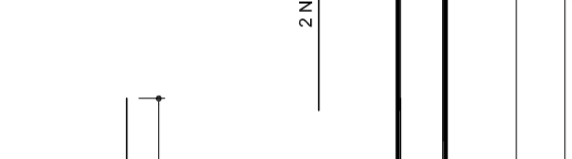
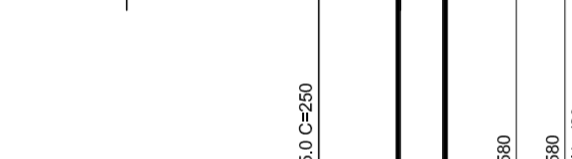
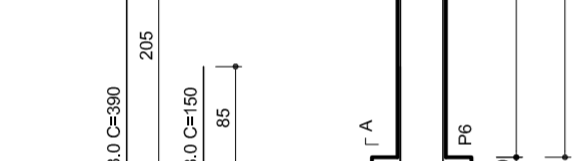
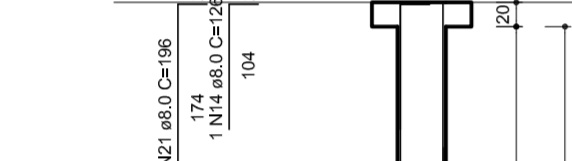
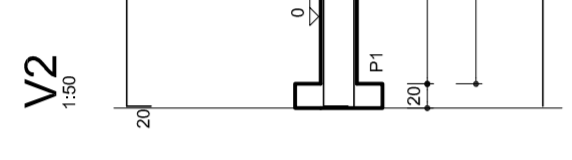
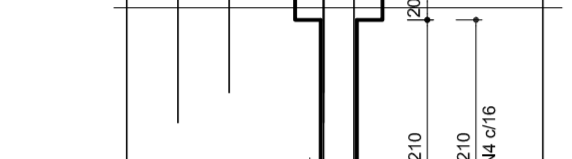
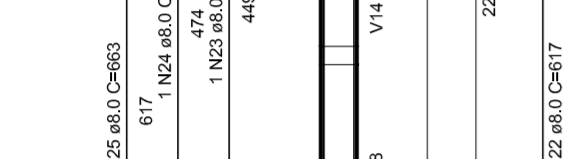
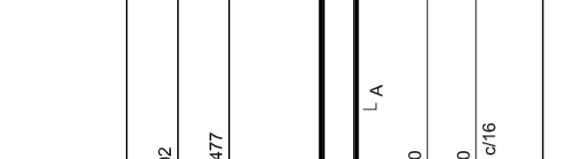
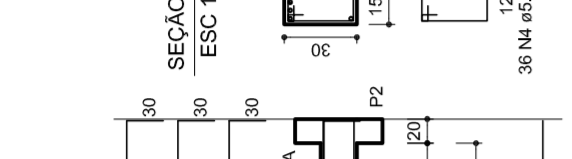
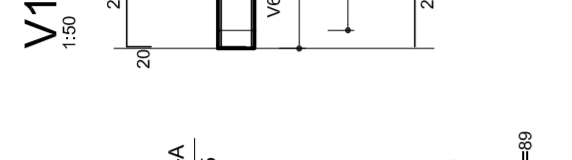
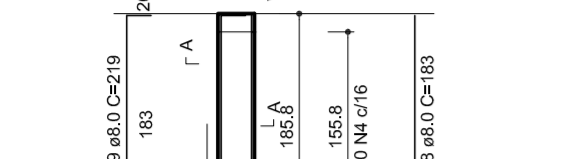
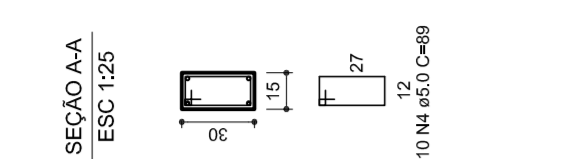
**RELACÃO DO AÇO**

ACO	N	DIAM	Q	CIT. (MPa)	PES. (Kg/m)	CIT. (MPa)	PES. (Kg/m)
1	5.0	38.9	119	46201	1.19	46201	1.19
2	5.0	40.0	126	46201	1.26	46201	1.26
3	5.0	42.0	134	46201	1.34	46201	1.34
4	5.0	44.0	142	46201	1.42	46201	1.42
5	5.0	46.0	150	46201	1.50	46201	1.50
6	5.0	48.0	158	46201	1.58	46201	1.58
7	5.0	50.0	166	46201	1.66	46201	1.66
8	5.0	52.0	174	46201	1.74	46201	1.74
9	5.0	54.0	182	46201	1.82	46201	1.82
10	5.0	56.0	190	46201	1.90	46201	1.90
11	5.0	58.0	198	46201	1.98	46201	1.98
12	5.0	60.0	206	46201	2.06	46201	2.06
13	5.0	62.0	214	46201	2.14	46201	2.14
14	5.0	64.0	222	46201	2.22	46201	2.22
15	5.0	66.0	230	46201	2.30	46201	2.30
16	5.0	68.0	238	46201	2.38	46201	2.38
17	5.0	70.0	246	46201	2.46	46201	2.46
18	5.0	72.0	254	46201	2.54	46201	2.54
19	5.0	74.0	262	46201	2.62	46201	2.62
20	5.0	76.0	270	46201	2.70	46201	2.70
21	5.0	78.0	278	46201	2.78	46201	2.78
22	5.0	80.0	286	46201	2.86	46201	2.86
23	5.0	82.0	294	46201	2.94	46201	2.94
24	5.0	84.0	302	46201	3.02	46201	3.02
25	5.0	86.0	310	46201	3.10	46201	3.10
26	5.0	88.0	318	46201	3.18	46201	3.18
27	5.0	90.0	326	46201	3.26	46201	3.26
28	5.0	92.0	334	46201	3.34	46201	3.34
29	5.0	94.0	342	46201	3.42	46201	3.42
30	5.0	96.0	350	46201	3.50	46201	3.50
31	5.0	98.0	358	46201	3.58	46201	3.58
32	5.0	100.0	366	46201	3.66	46201	3.66
33	5.0	102.0	374	46201	3.74	46201	3.74
34	5.0	104.0	382	46201	3.82	46201	3.82
35	5.0	106.0	390	46201	3.90	46201	3.90
36	5.0	108.0	398	46201	3.98	46201	3.98
37	5.0	110.0	406	46201	4.06	46201	4.06
38	5.0	112.0	414	46201	4.14	46201	4.14
39	5.0	114.0	422	46201	4.22	46201	4.22
40	5.0	116.0	430	46201	4.30	46201	4.30
41	5.0	118.0	438	46201	4.38	46201	4.38
42	5.0	120.0	446	46201	4.46	46201	4.46
43	5.0	122.0	454	46201	4.54	46201	4.54
44	5.0	124.0	462	46201	4.62	46201	4.62
45	5.0	126.0	470	46201	4.70	46201	4.70
46	5.0	128.0	478	46201	4.78	46201	4.78
47	5.0	130.0	486	46201	4.86	46201	4.86
48	5.0	132.0	494	46201	4.94	46201	4.94
49	5.0	134.0	502	46201	5.02	46201	5.02
50	5.0	136.0	510	46201	5.10	46201	5.10
51	5.0	138.0	518	46201	5.18	46201	5.18
52	5.0	140.0	526	46201	5.26	46201	5.26
53	5.0	142.0	534	46201	5.34	46201	5.34
54	5.0	144.0	542	46201	5.42	46201	5.42
55	5.0	146.0	550	46201	5.50	46201	5.50
56	5.0	148.0	558	46201	5.58	46201	5.58
57	5.0	150.0	566	46201	5.66	46201	5.66
58	5.0	152.0	574	46201	5.74	46201	5.74
59	5.0	154.0	582	46201	5.82	46201	5.82
60	5.0	156.0	590	46201	5.90	46201	5.90

**RESUMO DO AÇO**

ACO	DIAM	CIT. (MPa)	PES. (Kg/m)
CAO	8.0	515.8	24.2
CAO	12.5	16.8	17.9
CAO	5.0	852.8	161.4
<b>PESO TOTAL</b>			
CAO			285.5
CAO			285.5
CAO			285.5

Vol. de concreto total = 10.33 m³  
Area de forma total = 42.25 m²



**GOVERNO FEDERAL**  
**Ministério da Educação**  
**FADE**  
Fundação Nacional de Desenvolvimento da Educação  
PAIS RICO É PAIS SEM POBREZA

## PROJETO PADRÃO - FNDE

MUNICÍPIO – UF: \_\_\_\_\_  
PROPRIETÁRIO: \_\_\_\_\_  
ENDEREÇO: \_\_\_\_\_

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

DILFO: \_\_\_\_\_  
CREA: \_\_\_\_\_  
RA: \_\_\_\_\_

OBSERVAÇÕES: \_\_\_\_\_

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**QUADRA COBERTA**  
**PROJETO ESTRUTURAL**

COORDENAÇÃO: \_\_\_\_\_  
CGEST - Coordenação Geral de Infraestrutura Educacional

REVISÃO: \_\_\_\_\_  
R.00: \_\_\_\_\_  
R.00: \_\_\_\_\_  
R.00: \_\_\_\_\_

FORMATO: AT (841 X 594)

ESCALA: 1/125  
DATA EMISSÃO: JULHO/2011

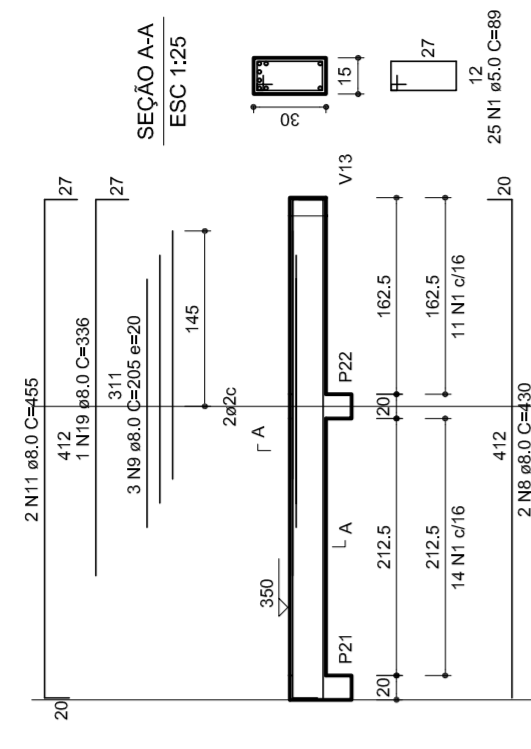
FRANQUISA: 10/11

**EST**

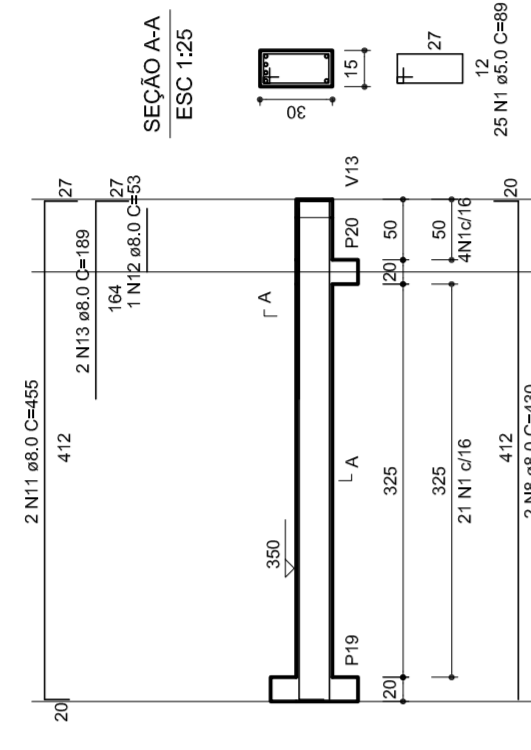
RELACÃO DO AÇO

VI	DIAM	N	O	UNIT	C TOTAL	ESCALA
V1	8,0	2	388	100	12276	1:50
V2	8,0	2	388	100	12276	1:50
V3	8,0	2	388	100	12276	1:50
V4	8,0	2	388	100	12276	1:50
V5	8,0	2	388	100	12276	1:50
V6	8,0	2	388	100	12276	1:50
V7	8,0	2	388	100	12276	1:50
V8	8,0	2	388	100	12276	1:50
V9	8,0	2	388	100	12276	1:50
V10	8,0	2	388	100	12276	1:50
V11	8,0	2	388	100	12276	1:50
V12	8,0	2	388	100	12276	1:50
V13	8,0	2	388	100	12276	1:50

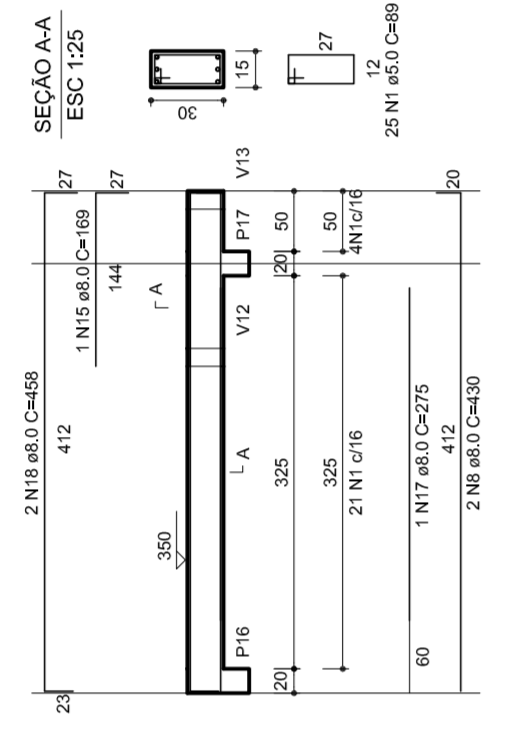
V1  
1:50



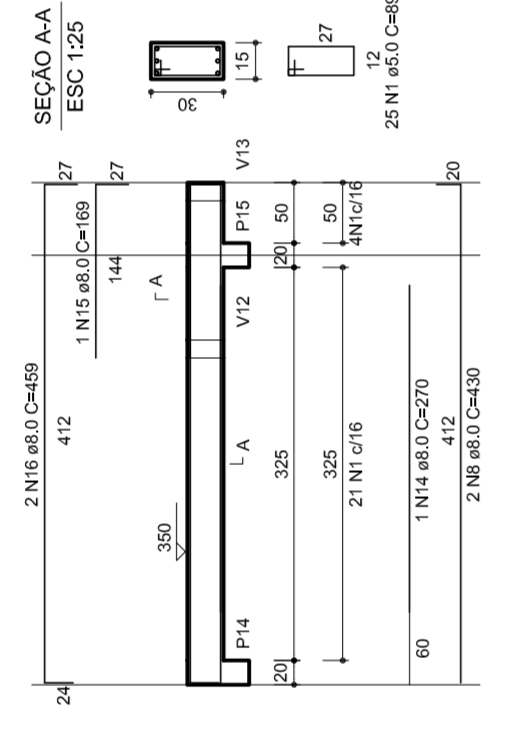
V2  
1:50



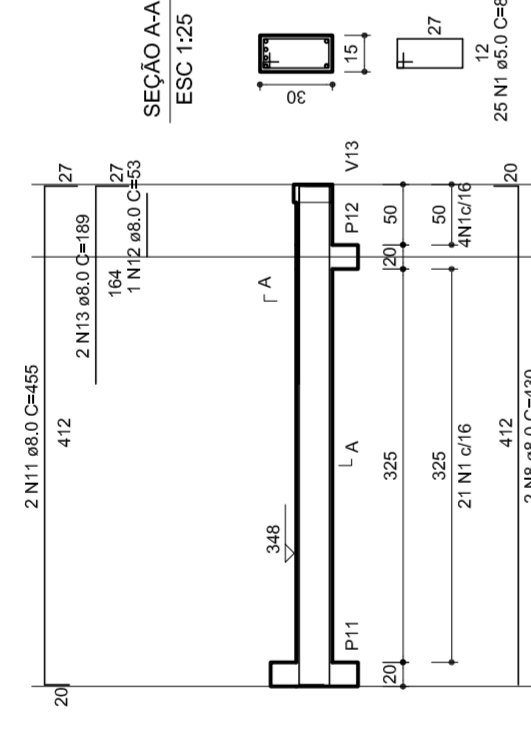
V3  
1:50



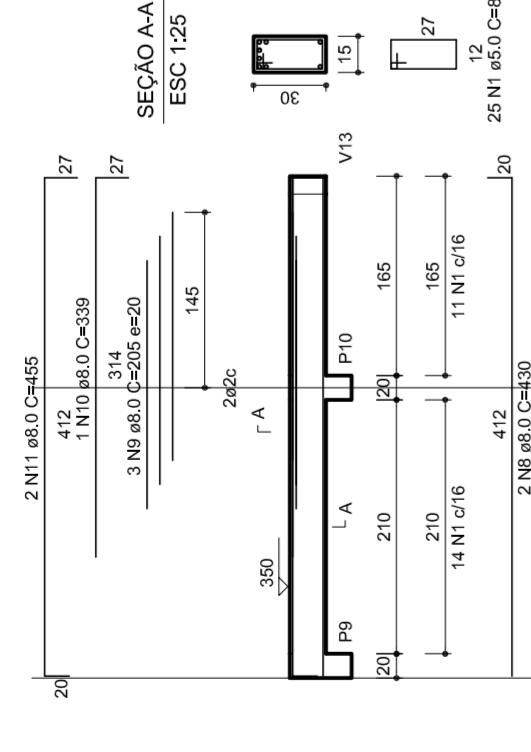
V4  
1:50



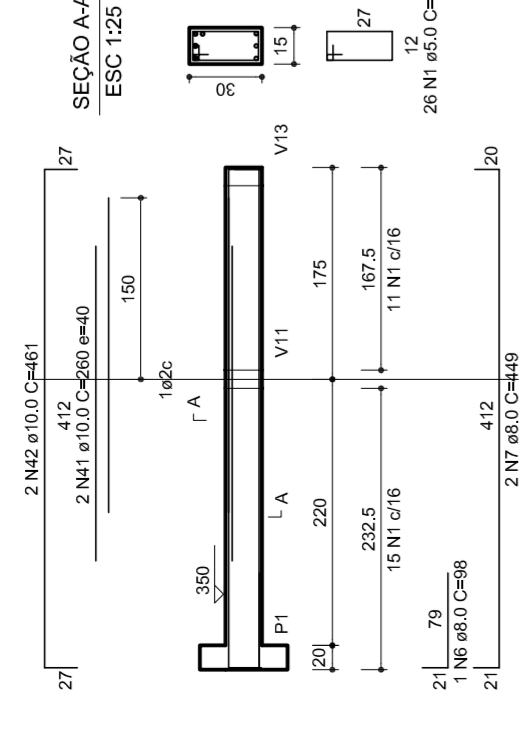
V5  
1:50



V6  
1:50



V7  
1:50

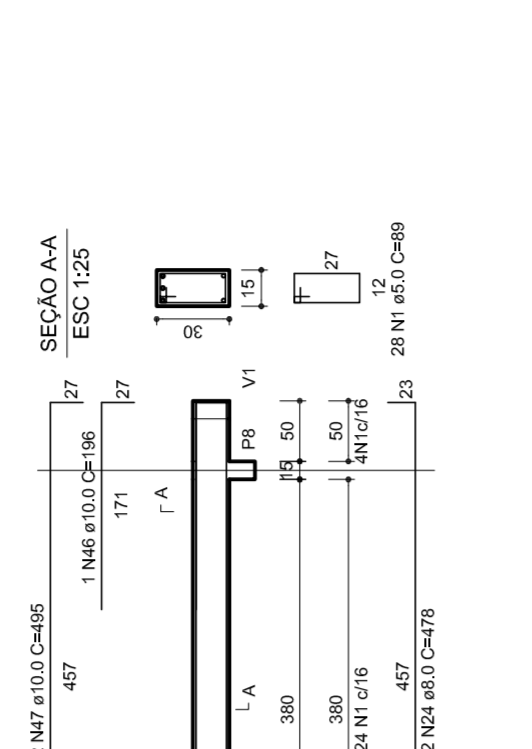


RESUMO DO AÇO

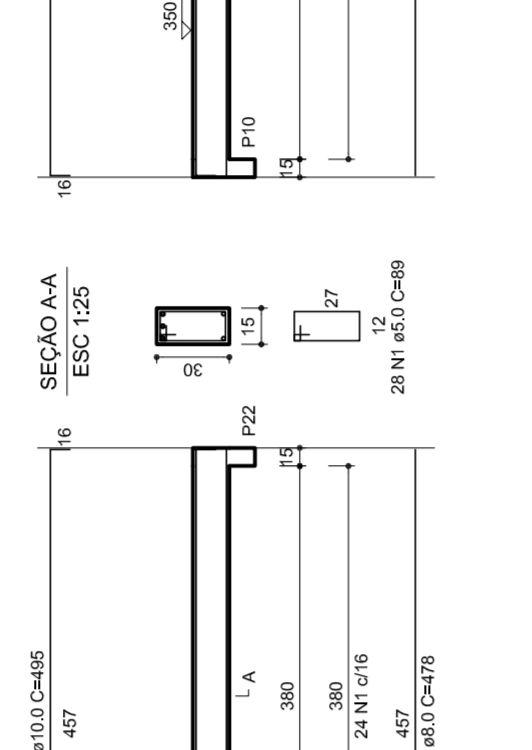
ACO	DIAM	C TOTAL	PESO/100%
CABO	8,0	388,3	13,87,5
CABO	8,0	814,7	100,4
CABO	8,0	275,7	
CABO	10x11		

Vol. de concreto total = 99 m³  
Área de forma total = 87,45 m²

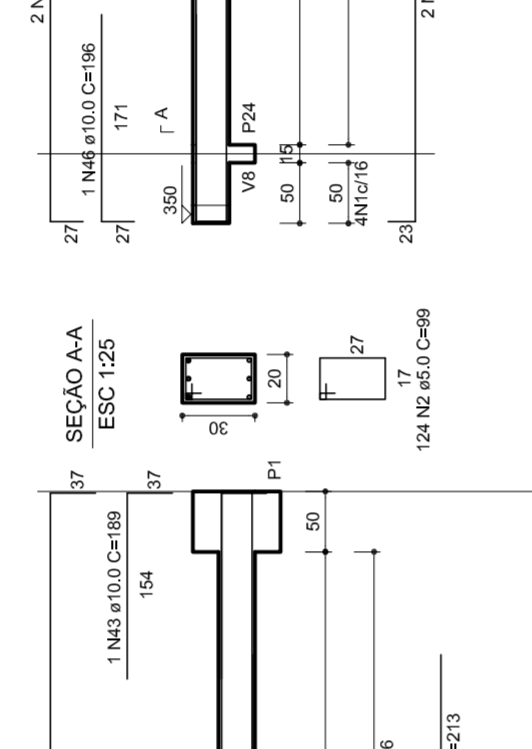
V8  
1:50



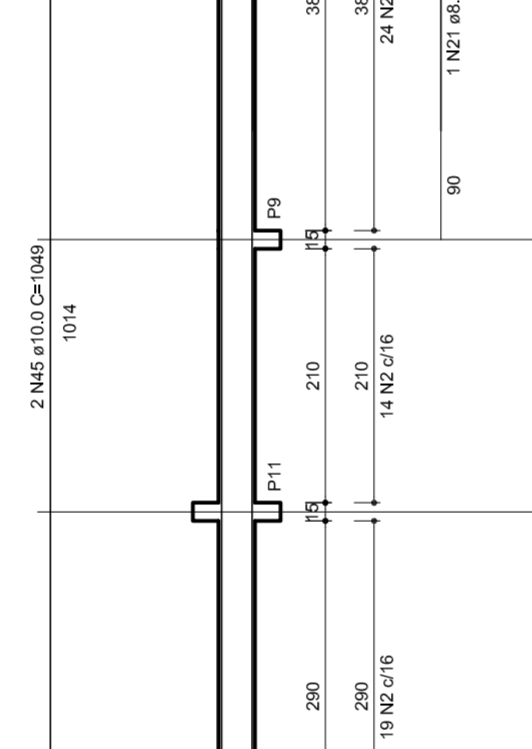
V9  
1:50



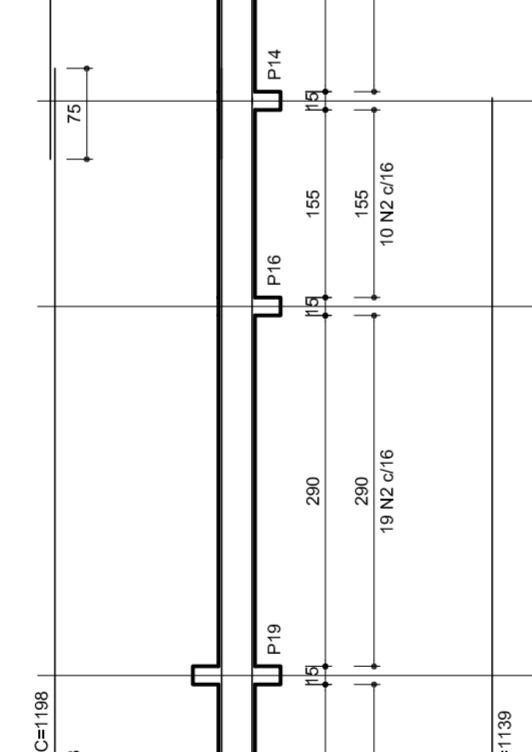
V10  
1:50



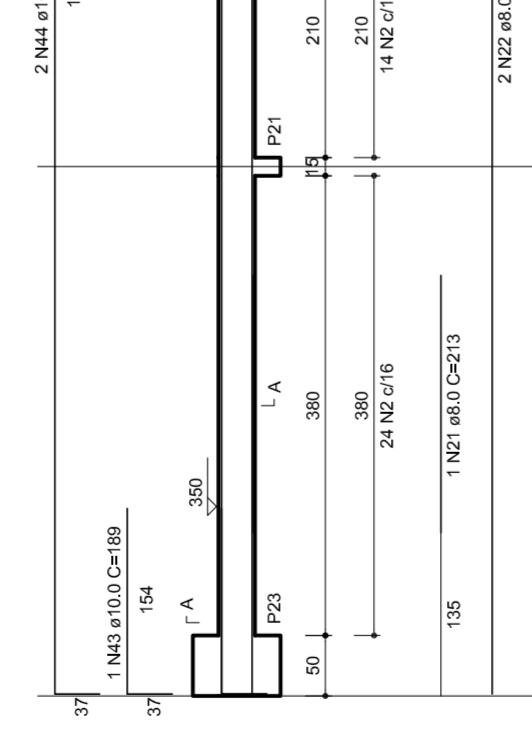
V11  
1:50



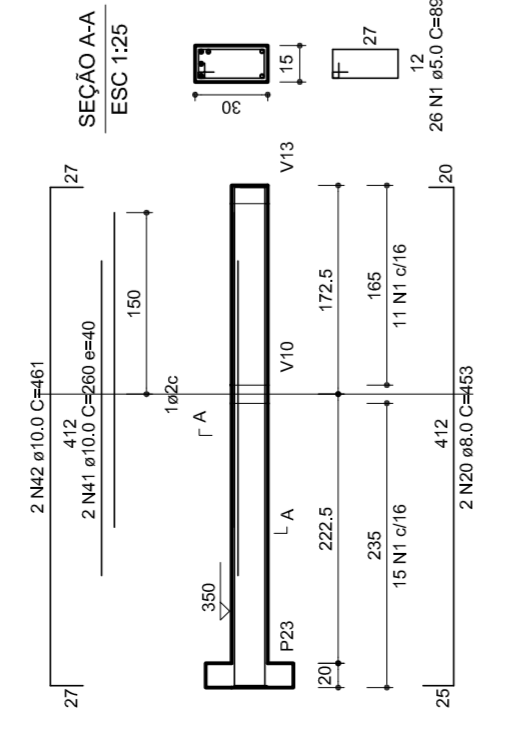
V12  
1:50



V13  
1:50



V14  
1:50

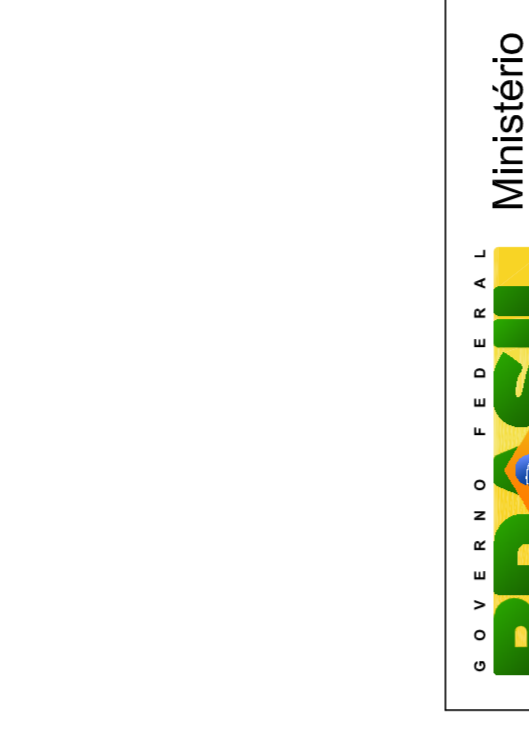


RESUMO DO AÇO

ACO	DIAM	C TOTAL	PESO/100%
CABO	8,0	388,3	13,87,5
CABO	8,0	814,7	100,4
CABO	8,0	275,7	
CABO	10x11		

Vol. de concreto total = 99 m³  
Área de forma total = 87,45 m²

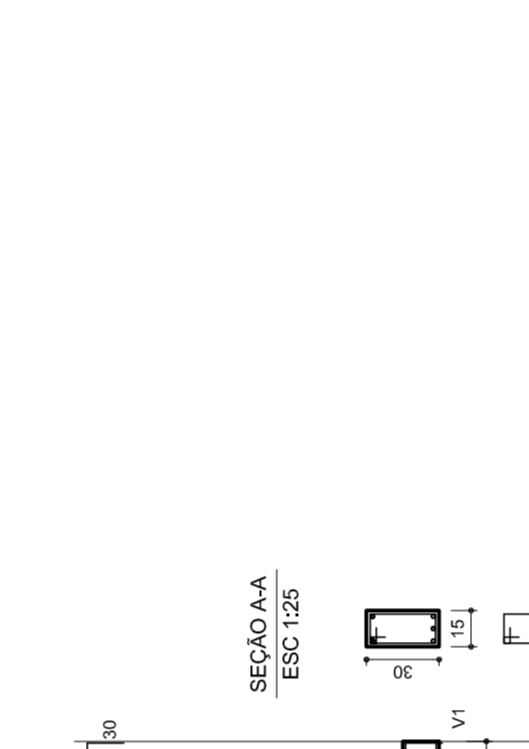
V15  
1:50



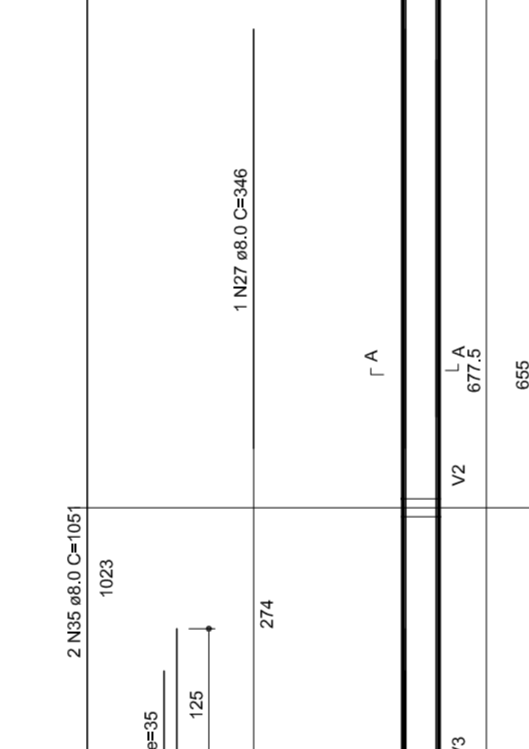
V16  
1:50



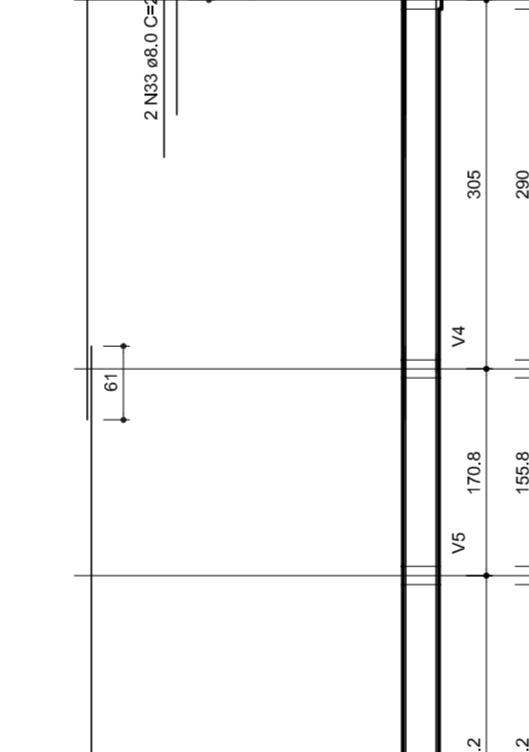
V17  
1:50



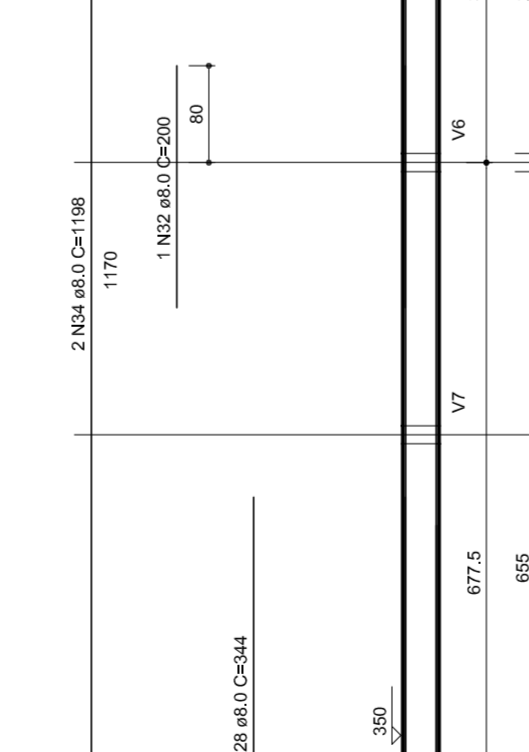
V18  
1:50



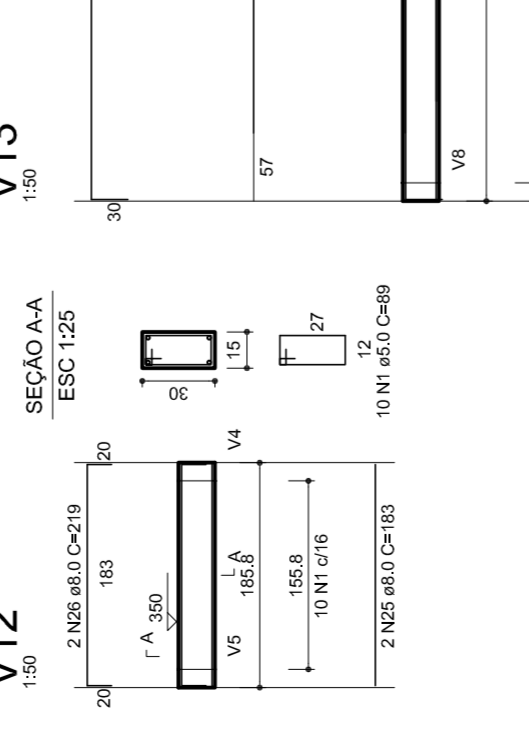
V19  
1:50



V20  
1:50



V21  
1:50



**PROJETO PADRÃO - FNDE**

MUNICÍPIO – UF:  
PROPRIETÁRIO:  
ENDEREÇO:

PROPRIETÁRIO:  
RESP. TÉCNICO:

DLFO  
CREA

RA

OBSERVAÇÕES:

**QUADRA COBERTA**  
**PROJETO ESTRUTURAL**

ESTRUTURA DE CONCRETO  
VIGAS - NÍVEL 320