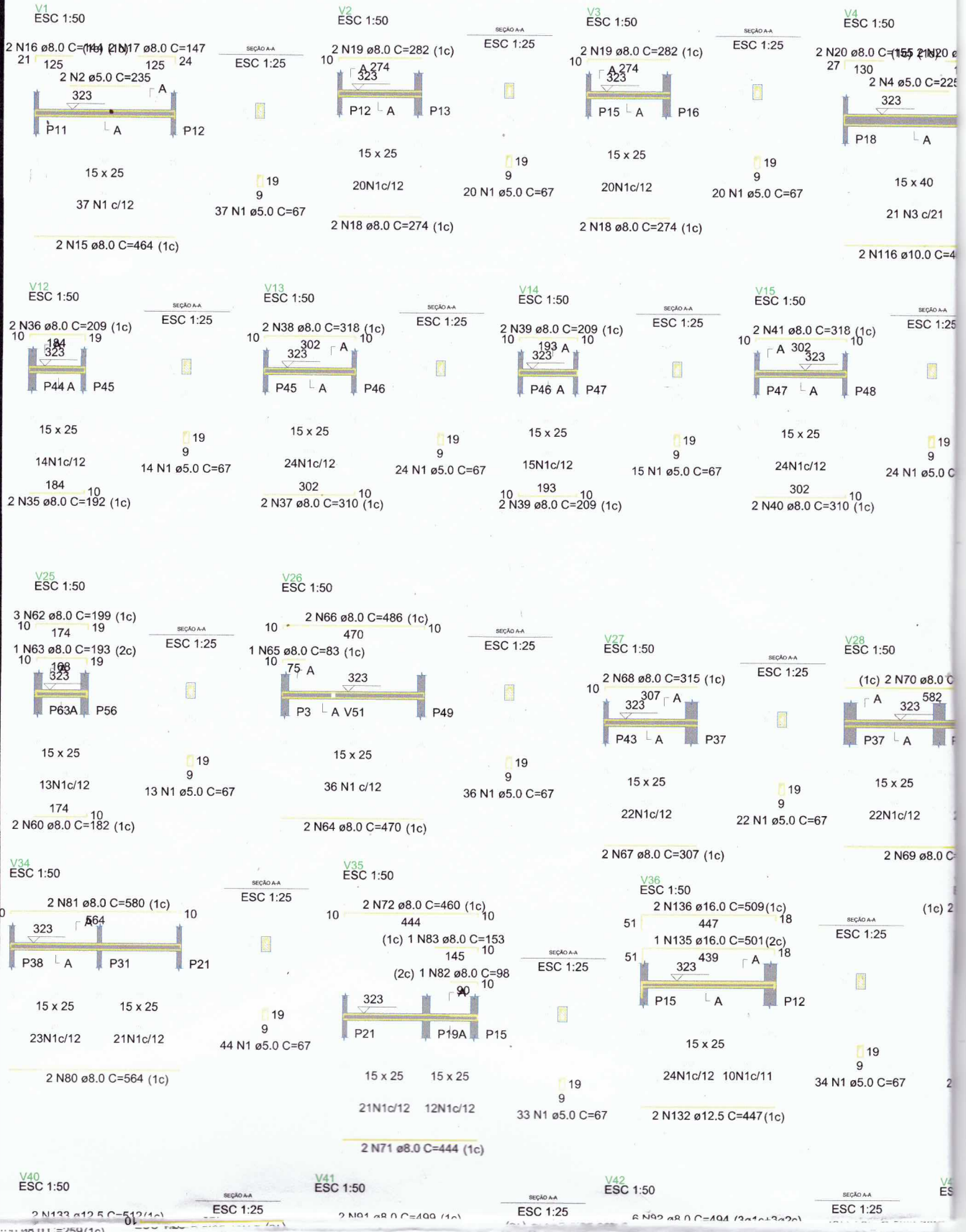
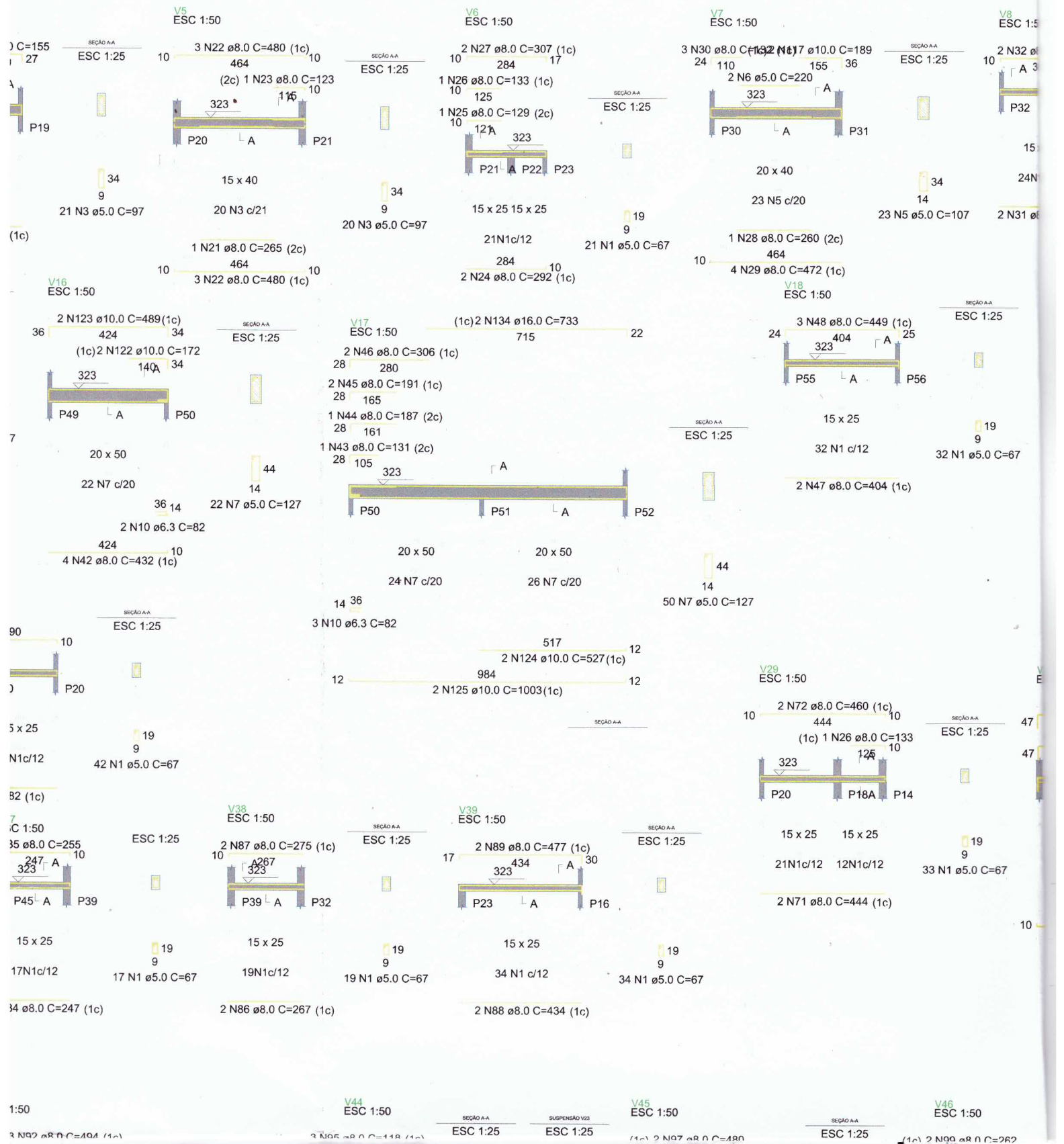
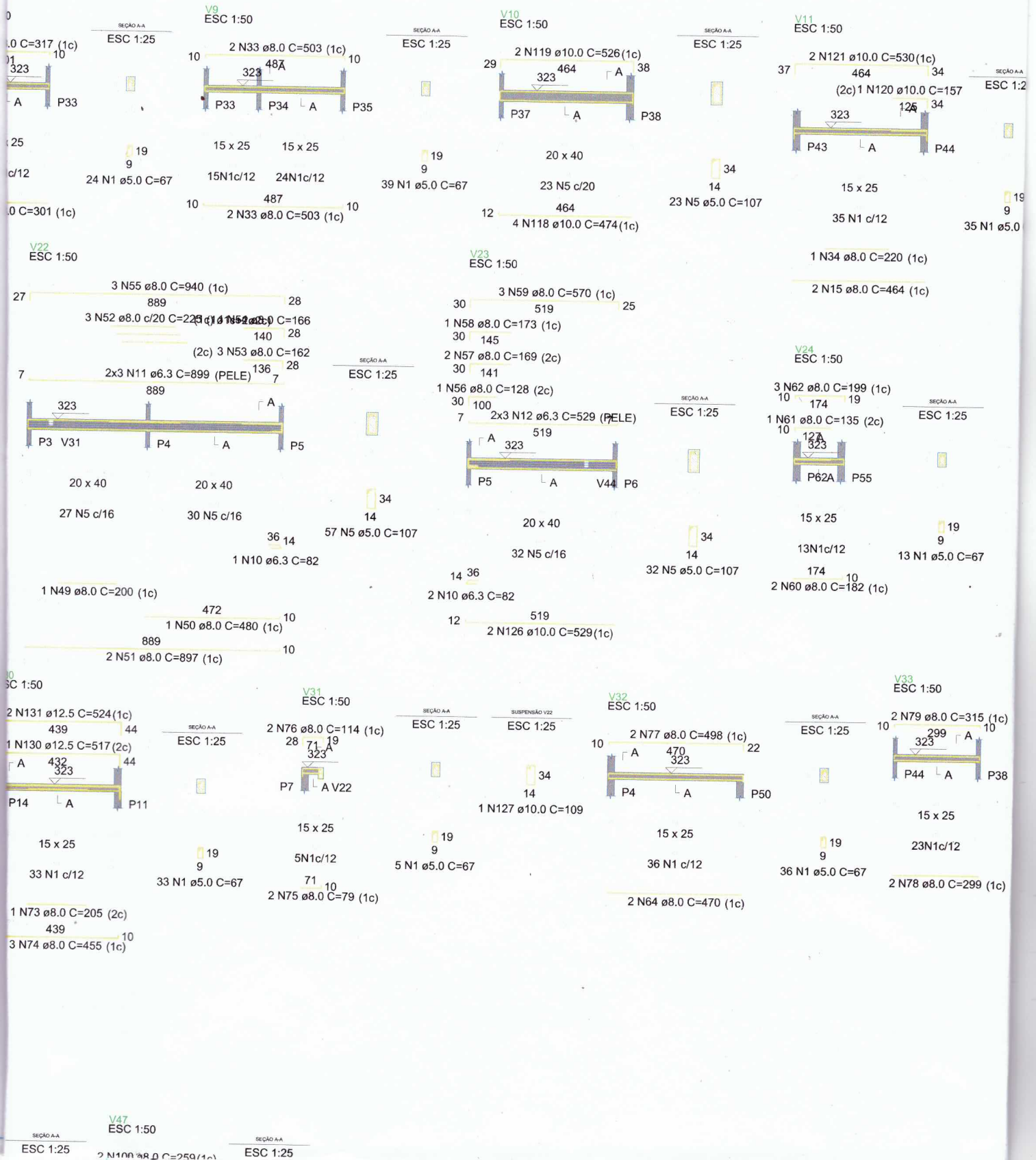
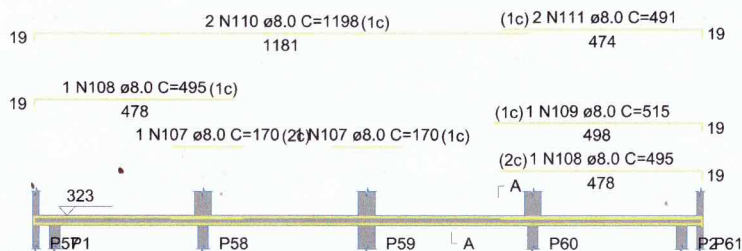








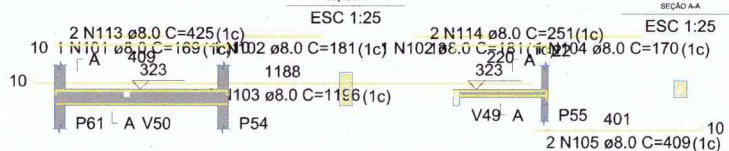
V48
ESC 1:50



SEÇÃO AA
ESC 1:25

15 x 25 15 x 25 15 x 25 15 x 25 15 x 25 15 x 25
4N1c/12 55N1c/6 60 N1 c/6 61 N1 c/6 55N1c/6 4N1c/12 239 N1 ø5.0 C=67
1 N106 ø8.0 C=121(1c)

V49
ESC 1:50

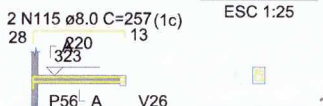


SEÇÃO AA
ESC 1:25

SEÇÃO AA
ESC 1:25

15 x 40 15 x 20 14
18 N3 c/21 9 25N9c/8 25 N9 ø5.0 C=57
18 N3 ø5.0 C=97
2 N112 ø8.0 C=409(1c) 2 N34 ø8.0 C=220 (1c)

V51
ESC 1:50



SEÇÃO AA
ESC 1:25

15 x 20 14
25N9c/8 25 N9 ø5.0 C=57

SEÇÃO AA
ESC 1:25

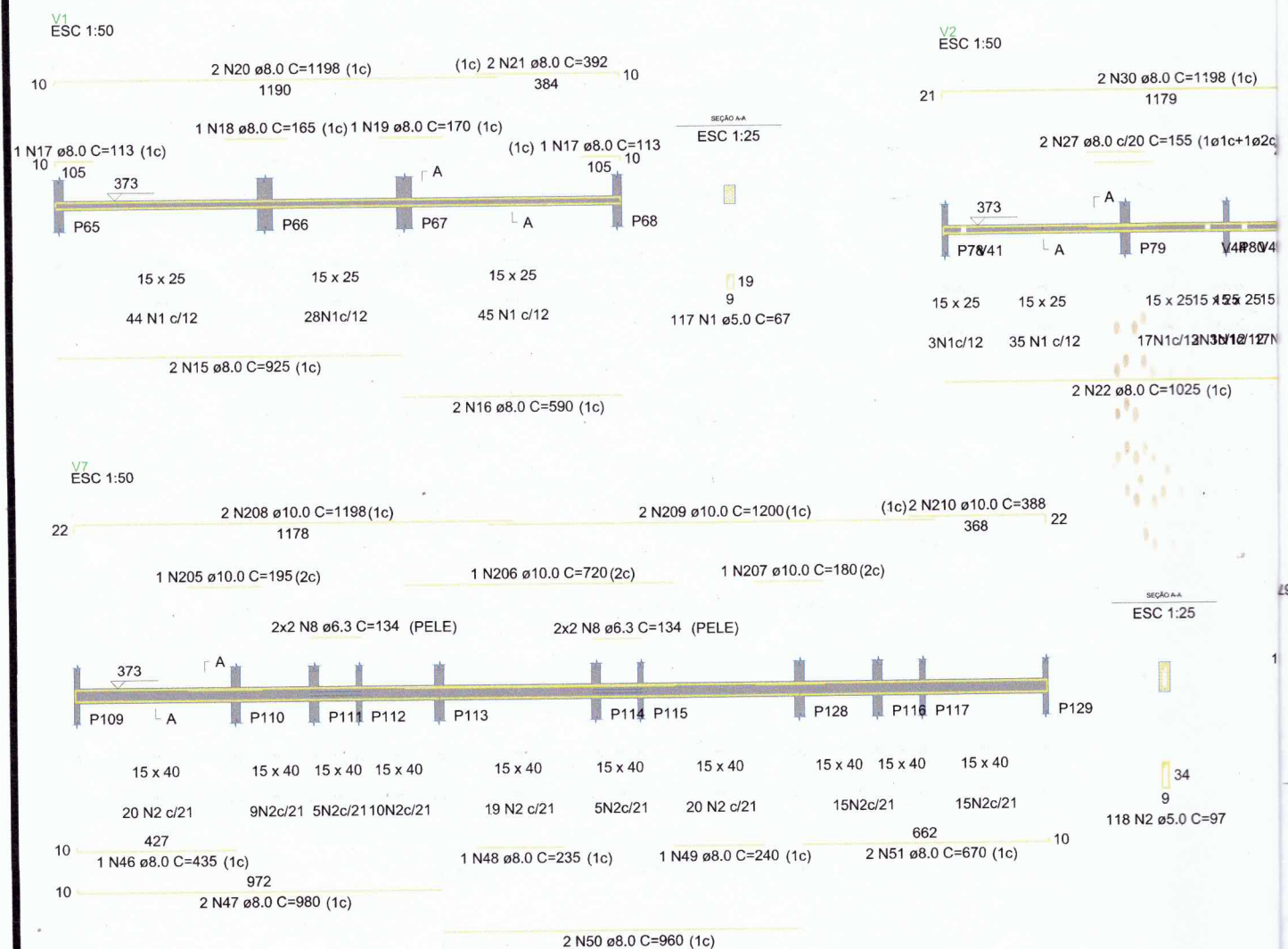
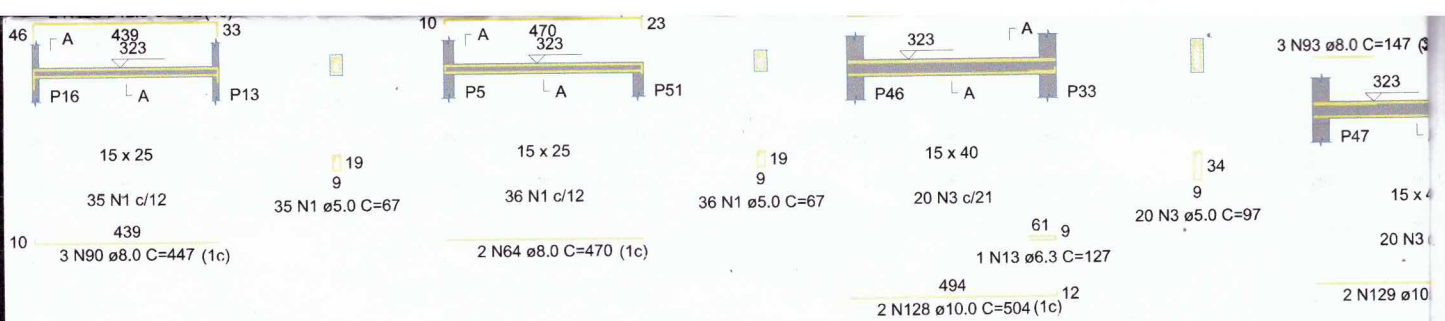
2 N34 ø8.0 C=220 (1c)

19
9
23 N1 ø5.0 C=67

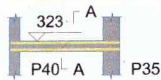
RESUMO DO AÇO VB1 & VB 51

AÇO	DIAM (mm)	C.TOTAL (m)	PESO - 10% (kg)
CA50	8.0	94.5	25.4
	8.0	834.1	362.1
	10.0	181.3	89
	12.5	34.6	35.9
	16.0	29.0	51.8
CA60	8.0	1132.8	192
PESO TOTAL (kg)			
CA50	665.0		
CA60	192		

Volume de concreto (C25) = 8.91 m³
Área de forma = 153.58 m²







15 x 25
18 N1 ø5.0 C=67
17 N1c/12
17 N1 ø5.0 C=67

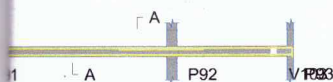
2 N100 ø8.0 C=259 (1c)

c)

(1c) 2 N41 ø8.0 C=679
659

1 N39 ø8.0 C=200 (1c)

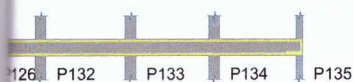
C=155 (2 N38 ø8.0 C=180 (2c)



15 x 25
65 N1 c/7
19 N1c/12
12 N1c/12

1 N34 ø8.0 C=215 (1c)
762
2 N35 ø8.0 C=770 (1c)

(1c) 2 N58 ø8.0 C=689
664



15 x 40
10 N2c/21
9 N2c/21
9 N2c/21
36 g
1 N9 ø6.3 C=77

655
2 N55 ø8.0 C=663 (1c)

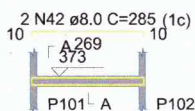
SEÇÃO A-A
ESC 1:25

183 N1 ø5.0 C=67

SEÇÃO A-A
ESC 1:25

81 N2 ø5.0 C=97

V4
ESC 1:50



15 x 25

21 N1c/12
269
2 N42 ø8.0 C=285 (1c)

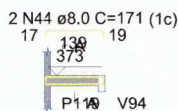
SEÇÃO A-A
ESC 1:25

21 N1 ø5.0 C=67

SEÇÃO A-A
ESC 1:25

16 N1 ø5.0 C=67

V5
ESC 1:50



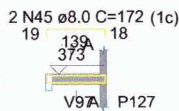
15 x 25

10 N1c/12
139
2 N43 ø8.0 C=147 (1c)

SEÇÃO A-A
ESC 1:25

10 N1 ø5.0 C=67

V6
ESC 1:50



15 x 25

10 N1c/12
139
2 N43 ø8.0 C=147 (1c)

SEÇÃO A-A
ESC 1:25

10 N1 ø5.0 C=67



PREFEITURA MUNICIPAL DE TELÊMACO BORBA

Administração:

Marcio Artur de Matos
Prefeito Municipal

SMPUHMA

SECRETARIA MUNICIPAL DE PLANEJAMENTO URBANO HABITAÇÃO E MEIO AMBIENTE

ISABELLE ADAMOVISKI

eng.º civil crea nº 78.757 D/Pr

DIVISÃO DE PROJETOS E PLANEJAMENTO URBANO

Obra:

Escola Municipal Monte Sinai

Referência:

ESTRUTURAL

Resp. técnico:

Andrei Crystian Vieira

Eng. civil CREA-Pr 149.282/D

Folha:

03/22

Rev.

00

Arquivo:

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Desenho: Revisão: Aprovação: 03/2020

ESCALA: 19:1

Quando o Senhor teu Deus desarraigar as nações, cuja terra te dá, e as despojares, e maorares nas suas cidades e nas suas casas e as cidades reservará na terra que o teu Deus te dá para a possuíres.

Formato - A1

ø8.0 C=1198 (1c)
1181

2 N27 ø8
ø8.0 C=135 (1c)

P88 P89 P8

25 15 x 2515 x 2515 x

c/8 9N1c/12N1c/102N'

ø8.0 C=1022 (1c)

N57 ø8.0 C=1198 (1c)
1173

5 (1c)

A P131 P125

15 x 40 15 x 40 15 x 40

6N2c/21 6N2c/21 12N2c/2

1185
2 N54 ø8.0 C=1193 (1c)