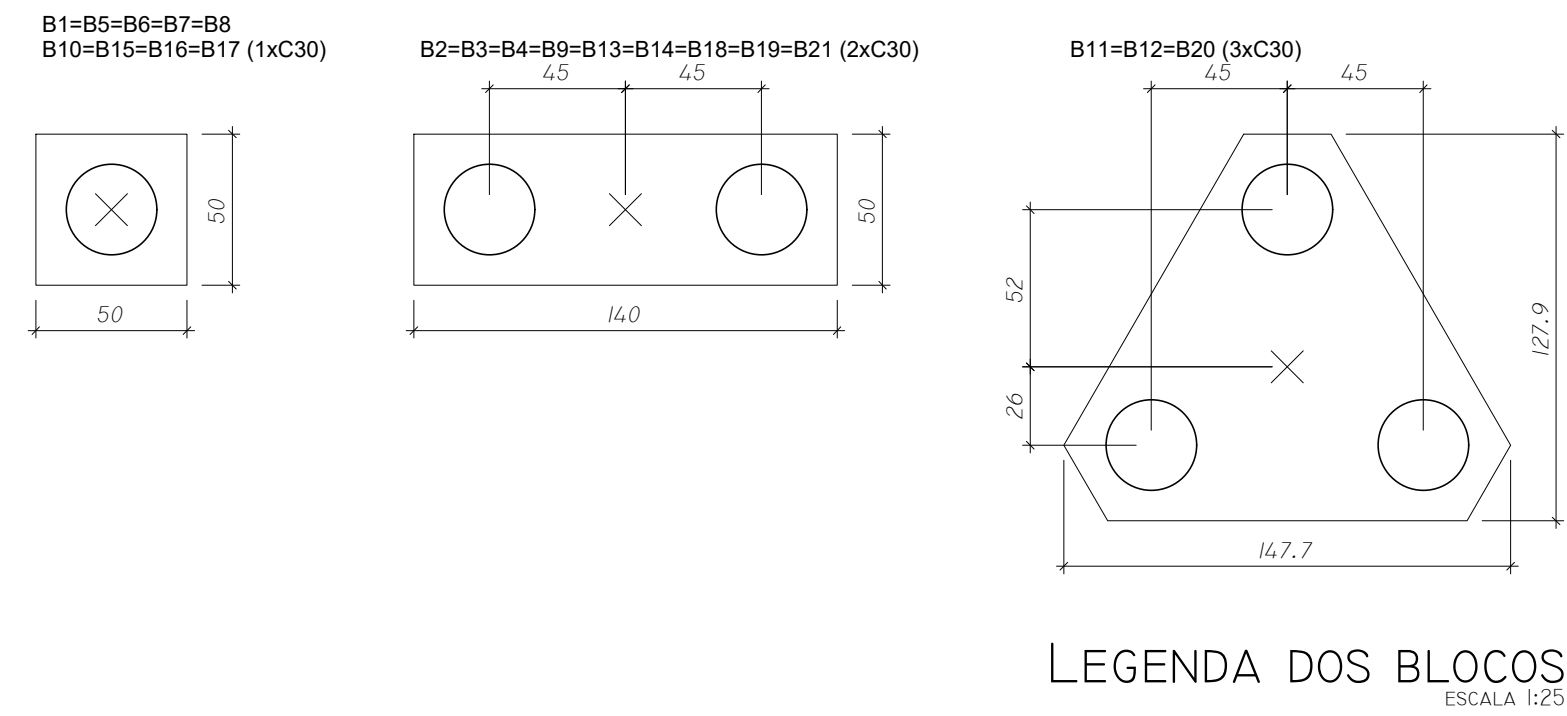


Nome	Pilar		Fundação					Estaca		Bloco Estaca	
	Seção (cm)	Carga Máx. (tf)	Lado B (cm)	Lado H (cm)	h / h <sub>B</sub> (cm)	Profund. (m)	ne	ca			
P1	14x30	8.3	50	50	35	45	12	C30	-75		
P2	14x30	10	140	50	35	50	10	C30	-80		
P3	14x30	12.1	140	50	35	50	10	C30	-80		
P4	14x30	11.2	140	50	35	50	10	C30	-80		
P5	14x30	6.6	50	50	35	45	11	C30	-75		
P6	14x30	9.9	50	50	35	45	13	C30	-75		
P7	14x30	2.0	50	50	35	45	5	C30	-75		
P8	14x30	2.1	50	50	35	45	5	C30	-75		
P9	20x20	12.3	140	50	35	45	10	C30	-75		
P10	14x30	8.1	50	50	35	45	12	C30	-75		
P11	20x20	19.2	148	128	35	55	10	C30	-85		
P12	20x20	20.1	148	128	35	55	11	C30	-85		
P13	20x20	7.8	140	50	35	45	13	C30	-75		
P14	20x20	11.6	140	50	35	45	10	C30	-75		
P15	14x30	2.6	50	50	35	45	6	C30	-75		
P16	20x20	7.6	50	50	35	45	12	C30	-75		
P17	14x30	5.1	50	50	35	45	9	C30	-75		
P18	14x30	10.8	140	50	35	50	10	C30	-80		
P19	14x30	6.2	50	50	35	45	12	C30	-75		
P20	20x20	20.4	148	128	35	55	11	C30	-85		
P21	14x30	12.9	140	50	35	50	11	C30	-80		



Nível de Arrasamento

50

20

8 N2

ESTRIBO

ESPAÇADOR

6 N1 Ø 8.0 mm

20

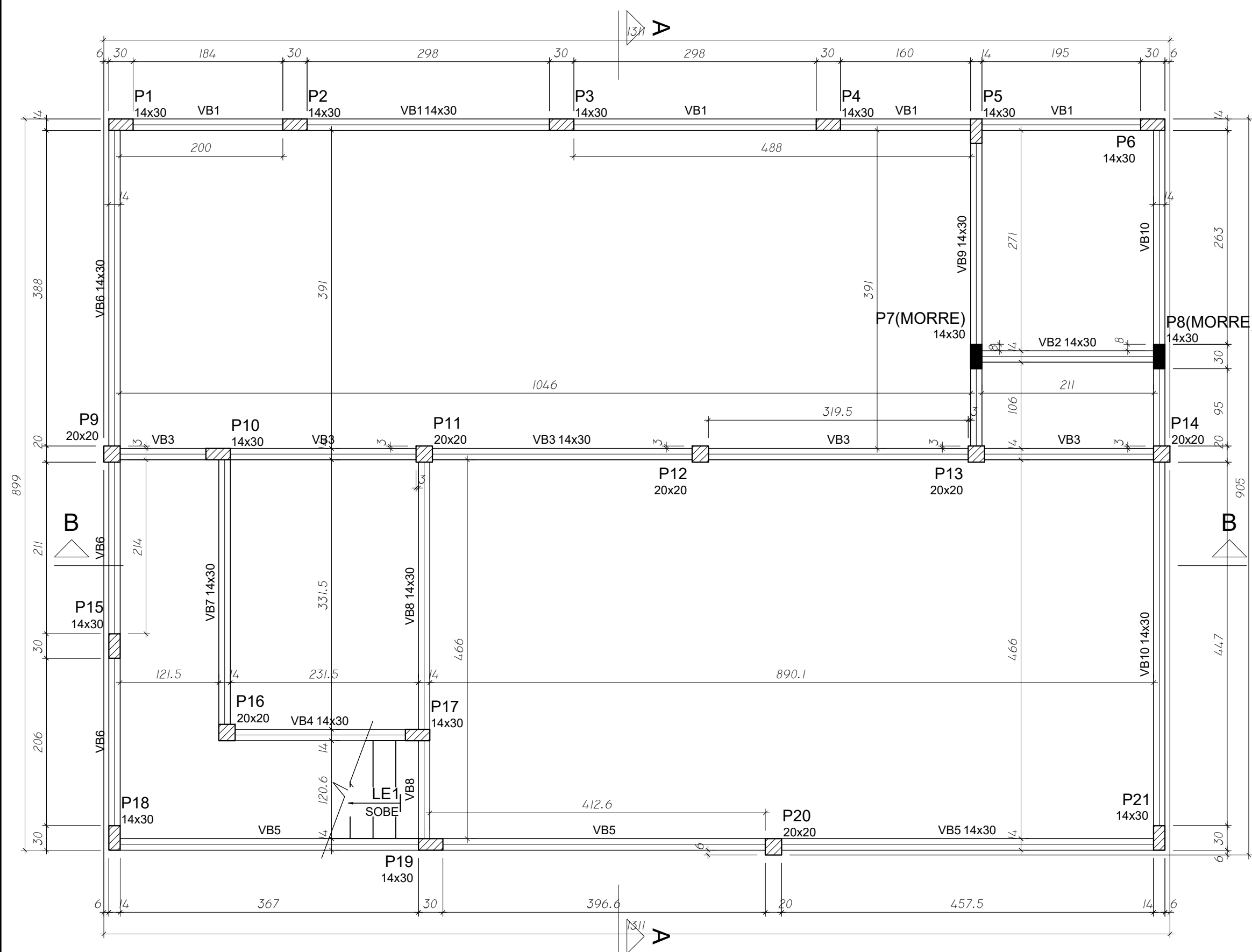
8 N2 Ø 5.0 mm c/20 cm c= 79 cm

6 N1 Ø 8.0 mm C= 200 cm

Variação

**OBSERVAÇÃO:**  
VERIFICAR COM O PROFISSIONAL RESPONSÁVEL PELA EXECUÇÃO DAS  
FUNDAÇÕES QUANTO À RESISTÊNCIA DAS ESTACAS PROJETADAS PARA O SOLO LOCAL.

<div>CEP: 00000-000</div> <div> <b>TRE-MS</b></div>		<div>AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)</div> <div></div>	
TÍTULO			
LOCAL		MUNICÍPIO	
RUA BALTAZAR SALDANHA, 1591 BAIRRO JARDIM CENTRO		PONTA PORÃ/ MS	
PROFISITANTE		AUTOR DO PROJETO	
<div>União - Tribunal Regional Eleitoral de MS CNPJ: 03.983.769/0001-52 Diogo Campos dos Anjos - Coordenador de Eng. TRE/MS CPF: 027.438.456-12</div>		<div>ELEMENTO Engenharia e Arquitetura CNPJ: 33.545.436/0001-15 CREA: 20196/ MS</div> <div> <b>elemento</b> engenharia • arquitetura</div> <div>Resp Téc. Eng. Marcelle Lima CREA: 61634/D-MS</div> <div>Resp Téc. Arq. Vanessa Souza CAU: A229391-9</div>	
CONTÉUDO		FASE	
LOCAÇÃO		EXECUTIVO	
ESCALA	DATA	REVISÃO	ART.
INDICADAS	ABRIL/2022	00	
			EST-01/15



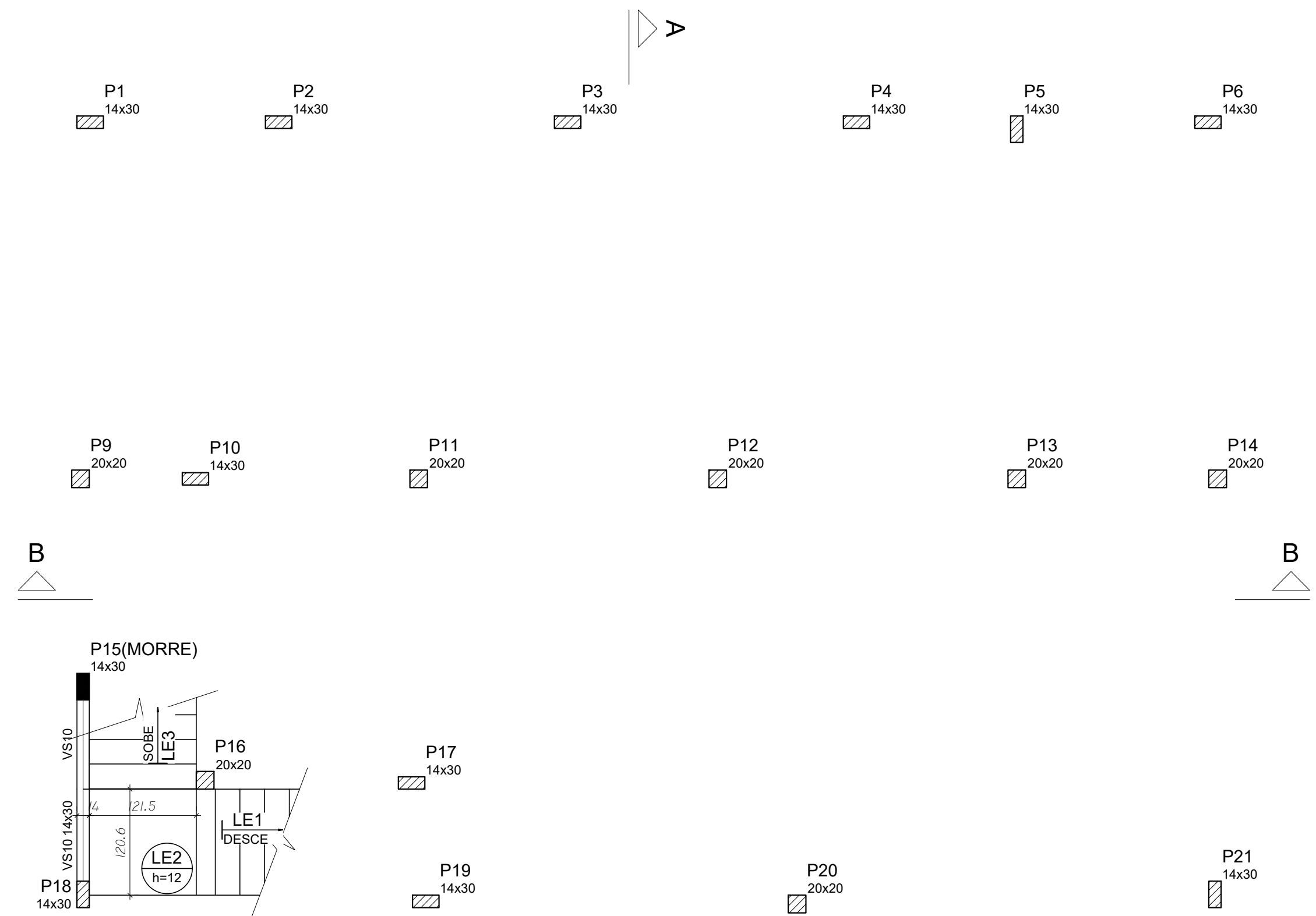
FORMA DO PAVIMENTO TERREO (NÍVEL 0)  
ESCALA 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	14x30	0	0
VB2	14x30	0	0
VB3	14x30	0	0
VB4	14x30	0	0
VB5	14x30	0	0
VB6	14x30	0	0
VB7	14x30	0	0
VB8	14x30	0	0
VB9	14x30	0	0
VB10	14x30	0	0

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x30	0	0
P2	14x30	0	0
P3	14x30	0	0
P4	14x30	0	0
P5	14x30	0	0
P6	14x30	0	0
P7	14x30	0	0
P8	14x30	0	0
P9	20x20	0	0
P10	14x30	0	0
P11	20x20	0	0
P12	20x20	0	0
P13	20x20	0	0
P14	20x20	0	0
P15	14x30	0	0
P16	20x20	0	0
P17	14x30	0	0
P18	14x30	0	0
P19	14x30	0	0
P20	20x20	0	0
P21	14x30	0	0

Legenda dos pilares	
	Pilar que morre
	Pilar que passa



FORMA INTERMEDIÁRIA DO PAVIMENTO SUPERIOR (NÍVEL 160)  
ESCALA 1:50

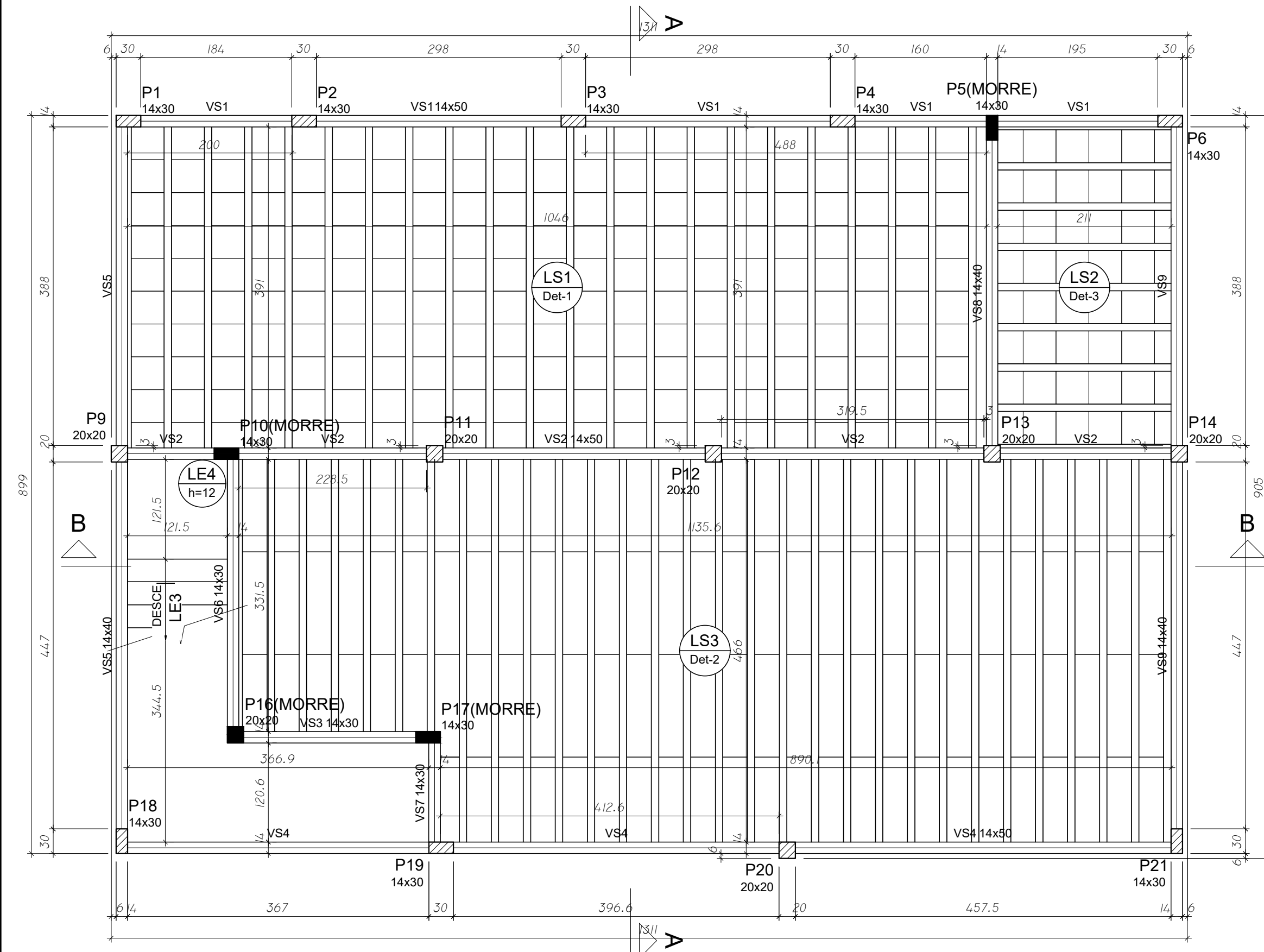
Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VS10	14x30	0	160

Lajes							
Dados				Sobrecarga (kgf/m²)			
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental Localizada
LE1	Maciça	12	0	160	575	169	250 -
LE2	Maciça	12	0	160	300	154	250 -

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x30	0	160
P2	14x30	0	160
P3	14x30	0	160
P4	14x30	0	160
P5	14x30	0	160
P6	14x30	0	160
P9	20x20	0	160
P10	14x30	0	160
P11	20x20	0	160
P12	20x20	0	160
P13	20x20	0	160
P14	20x20	0	160
P15	14x30	0	160
P16	20x20	0	160
P17	14x30	0	160
P18	14x30	0	160
P19	14x30	0	160
P20	20x20	0	160
P21	14x30	0	160

Legenda dos pilares	
	Pilar que morre
	Pilar que passa



FORMA DO PAVIMENTO SUPERIOR (NÍVEL 320)  
ESCALA 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VS1	14x50	0	320
VS2	14x50	0	320
VS3	14x30	0	320
VS4	14x50	0	320
VS5	14x40	0	320
VS6	14x30	0	320
VS7	14x30	0	320
VS8	14x40	0	320
VS9	14x40	0	320

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Legenda dos pilares	
	Pilar que morre
	Pilar que passa

BLOCOS DE ENCHIMENTO			
DETALHE	Tipo	Nome	QUANTIDADE
1	EPS UNIDIRECIONAL	B10/40/40	210
2	EPS UNIDIRECIONAL	B20/30/25	110
3	EPS UNIDIRECIONAL	B8/40/40	48

Lajes							
Dados				Sobrecarga (kgf/m²)			
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental Localizada
LE3	Maciça	12	0	320	619	178	250 -
LE4	Maciça	12	0	320	300	154	250 -
LS1	Pré-moldada	20	0	320	176	154	300 -
LS2	Pré-moldada	12	0	320	138	154	300 -
LS3	Pré-moldada	24	0	320	218	154	300 -

Detalhe 1 (esc. 1:30)

Detalhe 2 (esc. 1:30)

Detalhe 3 (esc. 1:30)

AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)

TÍTULO

PROJETO ESTRUTURAL EXECUTIVO

LOCAL

RUA BALTAZAR SALDANHA, 1591  
BAIRRO JARDIM CENTRO

MUNICÍPIO

PONTA PORÃ/ MS

PROPRIETÁRIO

AUTOR DO PROJETO

UNIDADE

Unidade - Tribunal Regional Eleitoral de MS  
CNPJ: 03.863.928/0001-02  
Diogo Campos dos Anjos - Coordenador de Eng. TREMS  
CPF: 037.436.458-12

RESP. TÉCNICO

Resp. Téc. Eng. Marcelina Lima  
CREA: 61634/D-MS  
Resp. Téc. Arq. Vanessa Souza  
CAU: A229391-9

CONTEÚDO

FÔRMAS TÉRREO, INTERMEDIÁRIO E SUPERIOR

FASE

EXECUTIVO

PRIMEIRA FOLHA

EST-02/15

ESCALA

INDICADAS

DATA

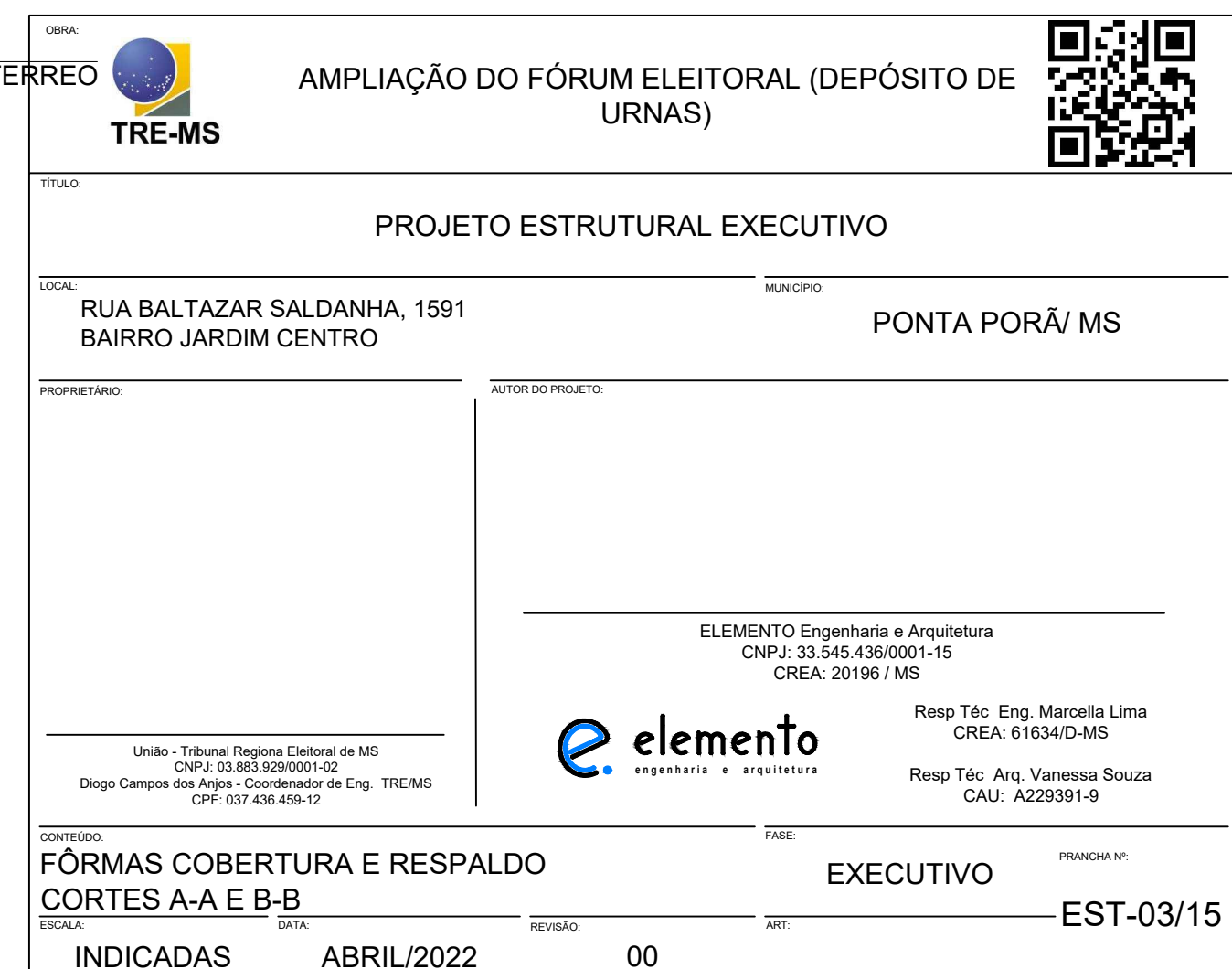
ABRIL/2022

REVISÃO

00

ART.





Technical drawing showing two views of a part. The top view is a square plate with a side length of 50. It has a central circular hole with a diameter of 4.0. A dimension line indicates a distance of 4.0 from the center to the bottom edge. The bottom view is a rectangular plate with a width of 54 and a height of 30. It has a central rectangular hole with a width of 4.0 and a height of 4.0. A dimension line indicates a distance of 4.0 from the center to the bottom edge. The part is labeled with a callout 'N56' pointing to the central hole. The drawing is identified as '4 N56 ø6.3 C=172'.

Technical drawing of a rectangular plate with two circular holes. The drawing includes dimensions: overall width 140, overall height 50, hole diameter 2 N1, hole spacing 45, and hole offset 45. It also shows a detail view of the corner with dimensions 35, 128, and 130.

[illegible]

Technical drawing of a mechanical part with three views: front, top, and side.

**Front View:** A square with a side length of 50. It contains a circular hole with a diameter of 40. A cross-hatched area is shown in the center. A label "NI2" points to the cross-hatched area.

**Top View:** A square with a side length of 40. It contains a small square feature in the top-left corner. A label "4 NI Ø6.3 C=172" is located below the view.

**Side View:** A rectangular part with a height of 80 and a width of 4.5. It contains a circular hole with a diameter of 40. A cross-hatched area is shown in the center. A label "NI2" points to the cross-hatched area. A dimension of 4.0 is shown for the depth of the part. A label "4 NI Ø6.3 C=172" is located to the right of the view. A label "CA: -75" is located below the view.

**Bottom View:** A rectangular part with a width of 54 and a height of 50. It contains a small square feature in the top-left corner. A label "2 NI Ø6.3 C=180" is located below the view.

CORTE  
ESC 1:25

80  
45  
40  
54  
30  
4 N12  
CA : -75  
Z N12 ø6.3 C=180

Technical drawing of a mechanical part with three views: front, top, and side.

- Front View:** A square with a side length of 50 mm. It features a central circular hole with a diameter of 14 mm and a square hole with a side length of 40 mm.
- Top View:** A square with a side length of 50 mm. It features a central circular hole with a diameter of 14 mm and a square hole with a side length of 40 mm.
- Side View:** A rectangular profile with a total height of 80 mm. The base width is 40 mm, and the top width is 45 mm. A dimension of 35 mm is indicated for the top flange.

Labels for the views: 4. N14, 4. N14, 4. N14.

Technical drawing of a mechanical part, likely a bracket or support, showing front and side views with dimensions.

**Front View (Top):**

- Overall width: 128
- Top flange width: 4 N29 Ø6.3 c/9 C=159
- Height of top flange: 0
- Height of main body: 35
- Height of base: 3 N28 c/10
- Base width: 30
- Base material: CA : -75

**Side View (Bottom):**

- Overall width: 128
- Height of base: 30
- Base material: 6 N30 Ø8.0 c/5 C=184

**Detail View (Bottom Right):**

- Width: 38
- Height: 30
- Material: 6 N27 Ø5.0 c/25 C=14

The technical drawing consists of three orthographic projections of a mechanical component:

- Front View (Top Left):** A square with a side length of 50 mm. It features a central circular hole with a diameter of 40 mm. The outer edge has a chamfer labeled N32.
- Top View (Bottom Left):** A square with a side length of 40 mm. It shows a small rectangular feature at one corner, labeled 4 N31 ø6.3 C=I72.
- Side View (Right):** A profile view showing the thickness of the part as 8 mm. It includes a vertical dimension of 45 mm from the base to the center of the circular hole. The total height of the part is 80 mm. The top surface has a chamfer labeled N32. The bottom surface has a chamfer labeled CA: -75. The distance from the base to the start of the chamfer is 4 mm.

[illegible][illegible]

VAR

7 6 N18 Ø6,3 c/19 C=VAR 7

0

35

90

55

50

N18

N19

N20

N20

4,0

4,0

116

3x5 N20 Ø8,0 c/7 C=192

Technical drawing of a rectangular plate with two views. The top view shows a plate with overall dimensions 140 (width) x 128 (height). It has two circular holes, each with a diameter of 45, spaced 45 units apart. The plate has a thickness of 30. The bottom view shows the same plate with dimensions 130 (width) x 130 (height). It has a thickness of 40. The plate is labeled with "2 N21 ø5.0 t/5 C=185" and "3 N23 ø6.3 C=352".

[illegible][illegible]


Technical drawing of a hexagonal nut. The top width is 25. The bottom width is 113. The label is 4 N17 Ø6.3 C=421.

RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.LIMIT (cm)	C.Total (cm)
B2	CA60 1	5,0	2	195		99,2
	CA60 2	5,0	6	157		94,2
	CA50 3	5,0	4	352		140,8
	CA50 4	6,3	4	139		95,6
	CA50 5	6,3	5	194		137,0
2xB4	CA60 6	5,0	4	195		78,0
	CA60 7	5,0	12	157		188,4
	CA50 8	6,3	8	352		281,6
	CA50 9	6,3	8	139		110,4
	CA50 10	8,0	10	194		192,0
B7	CA50 11	6,3	4	172		68,8
	CA50 12	6,3	2	180		36,0
B8	CA50 13	6,3	4	172		68,8
	CA50 14	6,3	2	180		36,0
2xB12	CA60 15	5,0	12	VAR		VAR
	CA60 16	VAR	VAR	VAR		VAR
	CA50 17	6,3	8	421		336,8
	CA50 18	6,3	12	VAR		VAR
	CA50 19	6,3	14	VAR		VAR
B15	CA50 20	8,0	10	192		576,0
	CA60 21	5,0	2	185		37,0
	CA60 22	5,0	6	147		88,2
	CA50 23	6,3	3	352		105,6
	CA50 24	6,3	4	139		55,6
2xB14	CA50 25	10,0	5	183		91,5
	CA60 26	5,0	4	185		76,4
	CA50 27	5,0	16	172		176,0
	CA50 28	6,3	6	352		211,2
	CA50 29	6,3	8	139		110,8
2xB15	CA50 30	8,0	12	184		220,8
	CA50 31	6,3	8	172		137,6
	CA50 32	6,3	4	180		72,0
B16	CA50 33	6,3	4	172		68,8
	CA50 34	6,3	6	180		36,0
4xB17	CA50 35	6,3	16	172		275,2
	CA50 36	6,3	8	180		144,0

AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	6.3	270.7	72.9
	8.0	108.8	47.2
	10.0	9.2	6.2
CA60	5.0	128	21.7


VOLUME DE CONCRETO (C-25) = 4.28 m<sup>3</sup>  
ÁREA DE FORMA = 23.81 m<sup>2</sup>

CERSA:



TRE-MS

AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)



TÍTULO:

PROJETO ESTRUTURAL EXECUTIVO

LOCAL:

RUA BALTAZAR SALDANHA, 1591  
BAIRRO JARDIM CENTRO

MUNICÍPIO:


PONTA PORÁ / MS

PROPRIETÁRIO:

AUTOR DO PROJETO:

União - Tribunal Regional Eleitoral de MS  
CNPJ: 03.863.929/0001-02  
Diego Campos dos Anjos - Coordenador de Eng. TRE/MS  
CPF: 037.438.458-12

ELEMENTO Engenharia e Arquitetura  
CNPJ: 33.545.436/0001-15  
CREA: 20196 / MS

 elemento  
engenharia • arquitetura

Resp Téc: Eng. Marcelle Lima  
CREA: 61634/D-MS

Resp Téc: Arq. Vanessa Souza  
CAU: A229391-9

CONTÊUDO:

FASE:

DETALHAMENTO DOS BLOCOS (1)

EXECUTIVO

PRONCHIA Nº:

ESCALA:

DATA:

REVISÃO:

ART:

EST-04/1-

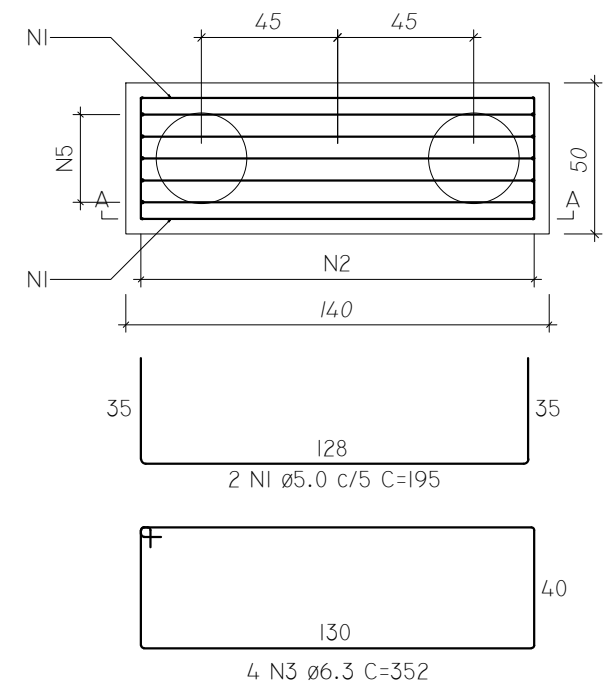
INDICADAS

ABRIL/2022

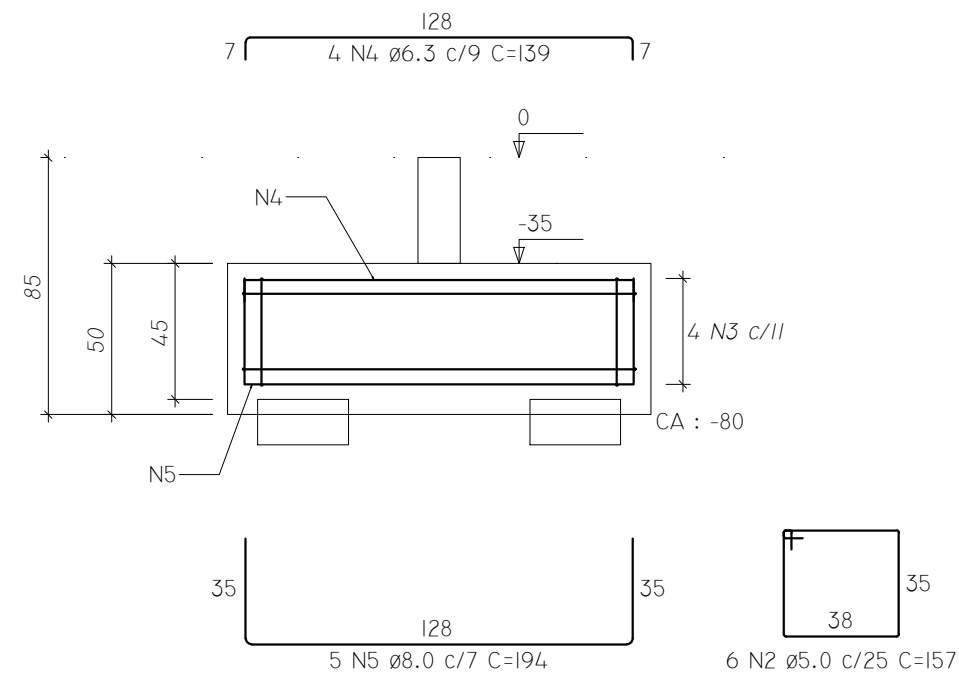
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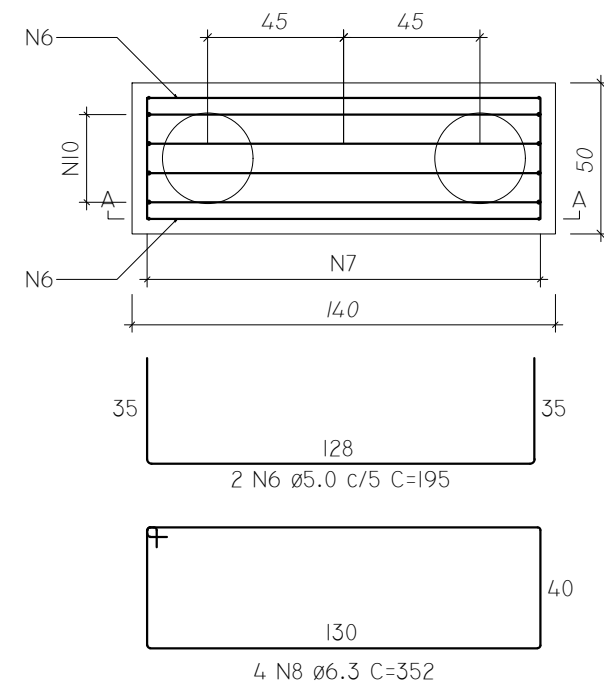
B18  
2xC30  
PLANTA  
ESC 1:25



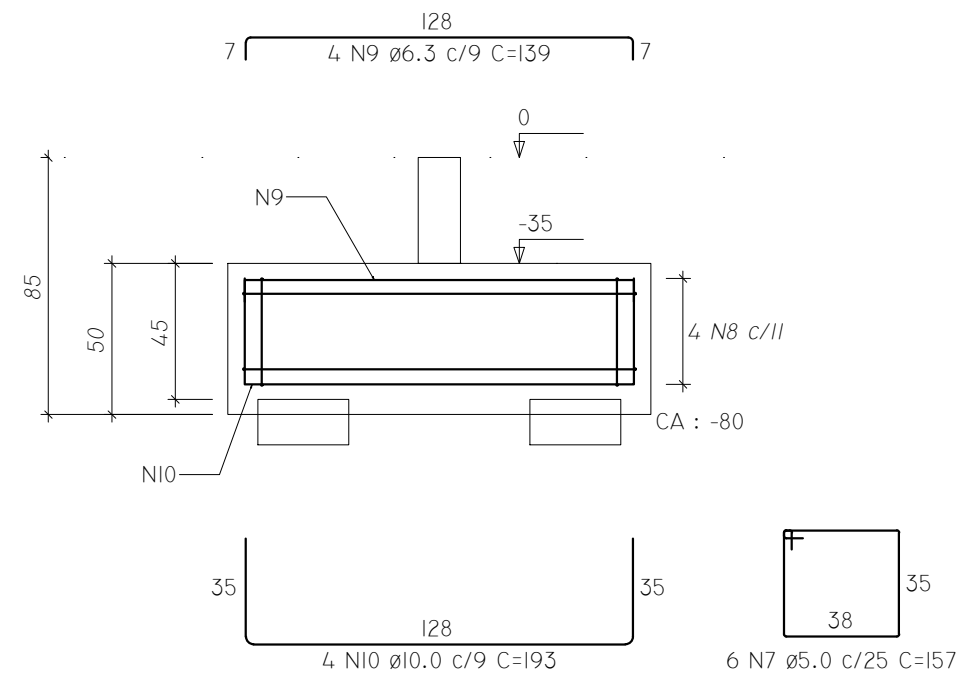
CORTE A-A  
ESC 1:25



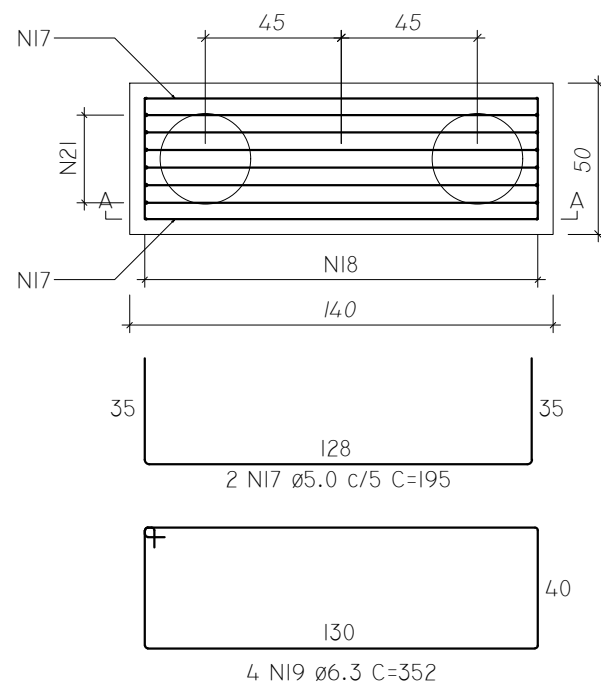
B19  
2xC30  
PLANTA  
ESC 1:25



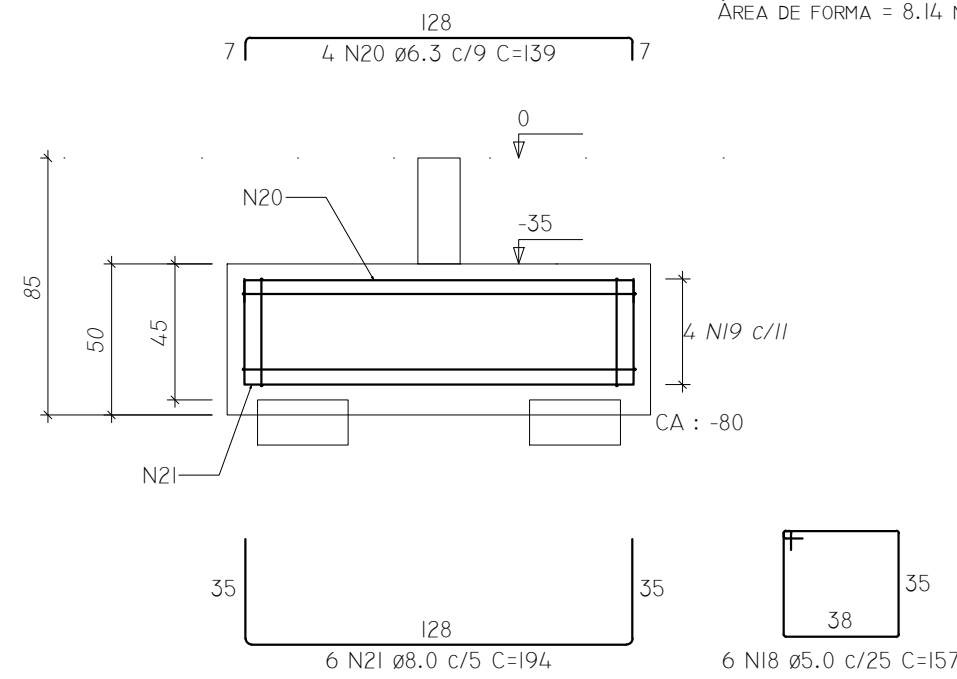
CORTE A-A  
ESC 1:25



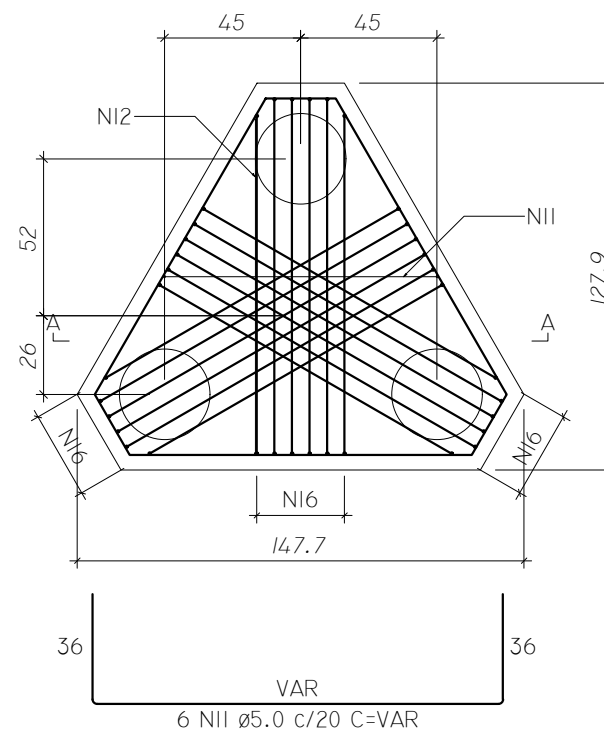
B21  
2xC30  
PLANTA  
ESC 1:25



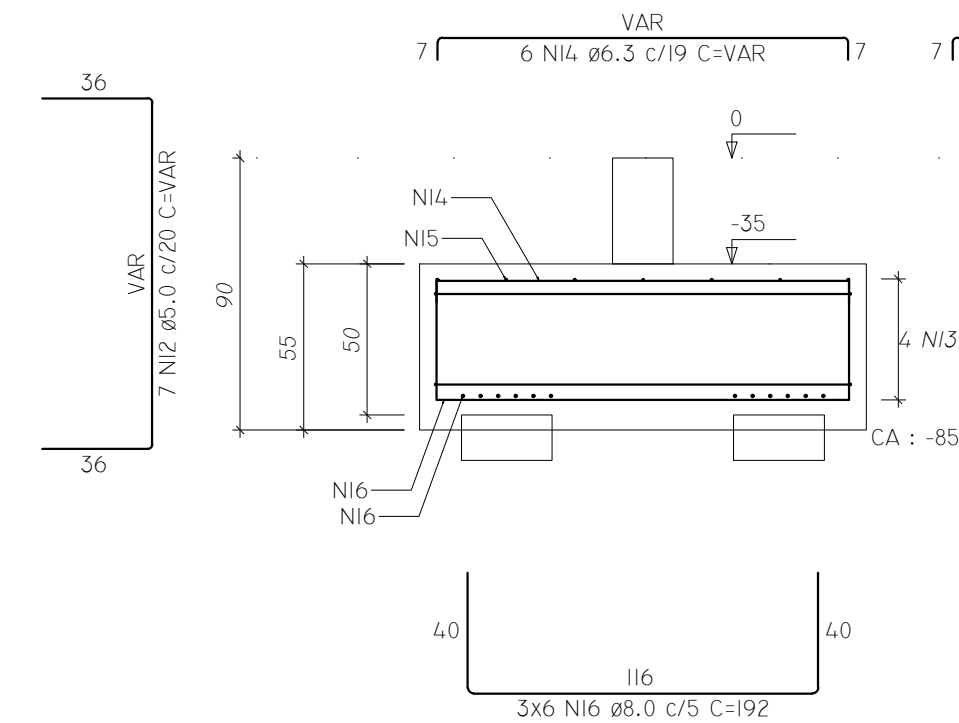
CORTE A-A  
ESC 1:25



B20  
3xC30  
PLANTA  
ESC 1:25



CORTE A-A  
ESC 1:25



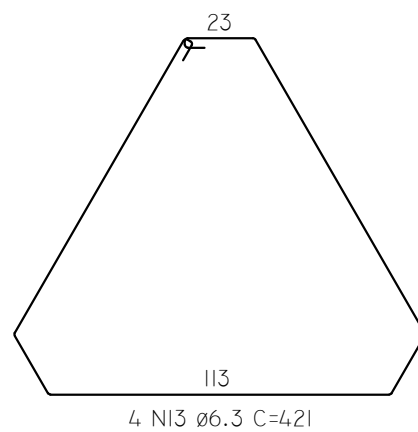
RELAÇÃO DO AÇO


ELEMENTO	AÇO	N	DIAM (MM)	QUANT	C.UNIT (CM)	C.TOTAL (CM)
B18	CA60	1	5.0	2	195	390
	CA60	2	5.0	6	157	942
	CA50	3	6.3	4	352	1408
	CA50	4	6.3	4	139	556
	CA50	5	8.0	5	194	970
B19	CA60	6	5.0	2	195	390
	CA60	7	5.0	6	157	942
	CA50	8	6.3	4	352	1408
	CA50	9	6.3	4	139	556
	CA50	10	10.0	4	193	772
B20	CA60	11	5.0	6	VAR	VAR
	CA60	12	5.0	7	VAR	VAR
	CA50	13	6.3	4	421	1684
	CA50	14	6.3	6	VAR	VAR
	CA50	15	6.3	7	VAR	VAR
B21	CA50	16	8.0	18	192	3456
	CA60	17	5.0	2	195	390
	CA60	18	5.0	6	157	942
	CA50	19	6.3	4	352	1408
	CA50	20	6.3	4	139	556
	CA50	21	8.0	6	194	1164

RESUMO DO AÇO

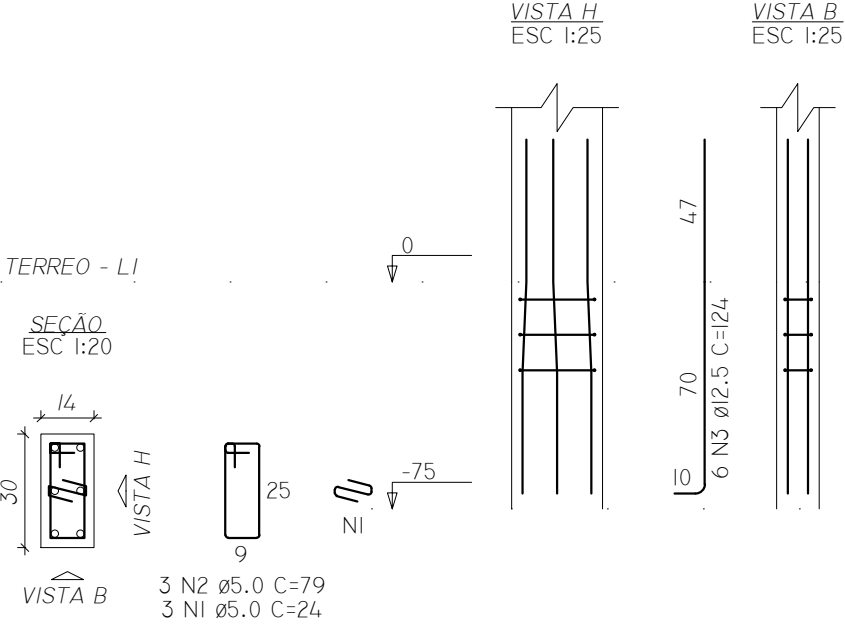
AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	6.3	93.5	25.2
	8.0	55.9	24.3
CA60	10.0	7.7	5.2
	5.0	65.2	11.1
PESO TOTAL (KG)			
CA50	54.7		
CA60	11.1		

VOLUME DE CONCRETO (C-25) = 1.70 M³  
ÁREA DE FORMA = 8.14 M²

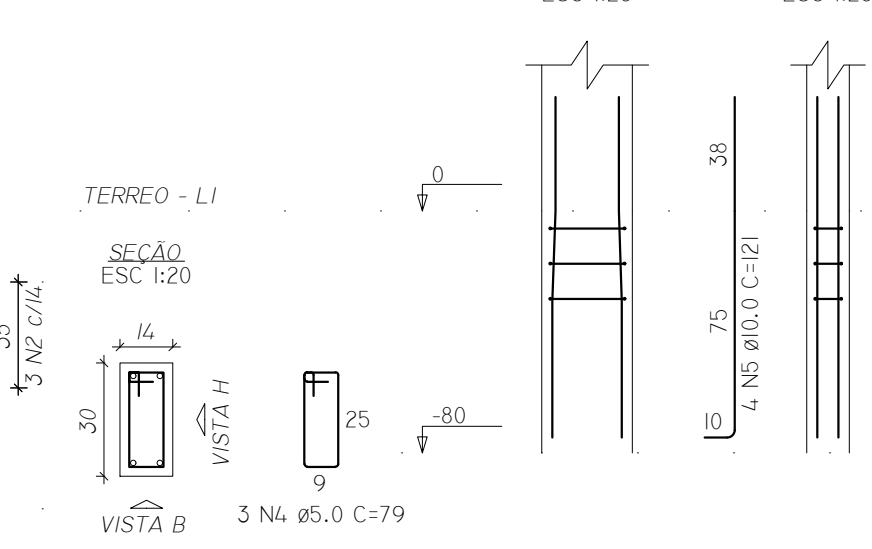


OBRA:	
	AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)
TÍTULO:	
PROJETO ESTRUTURAL EXECUTIVO	
LOCAL:	MUNICÍPIO:
RUA BALTAZAR SALDANHA, 1591 BAIRRO JARDIM CENTRO	PONTA PORÃ/ MS
PROPRIETÁRIO:	AUTOR DO PROJETO:
ELEMENTO Engenharia e Arquitetura CNPJ: 33.545.436/0001-15 CREA: 20196 / MS	
Resp Téc. Eng. Marcella Lima CREA: 61634/D-MS	
Resp Téc. Arq. Vanessa Souza CAU: A229391-9	
CONTEÚDO:	FASE:
DETALHAMENTO DOS BLOCOS (2)	EXECUTIVO
PRANCHA Nº:	EST-05/15
ESCALA:	DATA:
INDICADAS	ABRIL/2022
REVISÃO:	00
ART:	

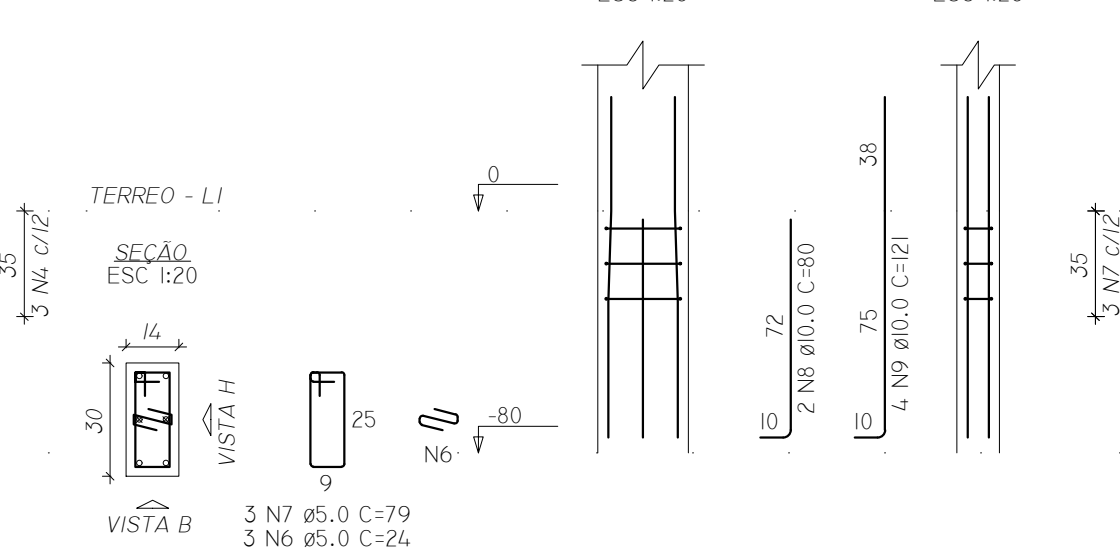
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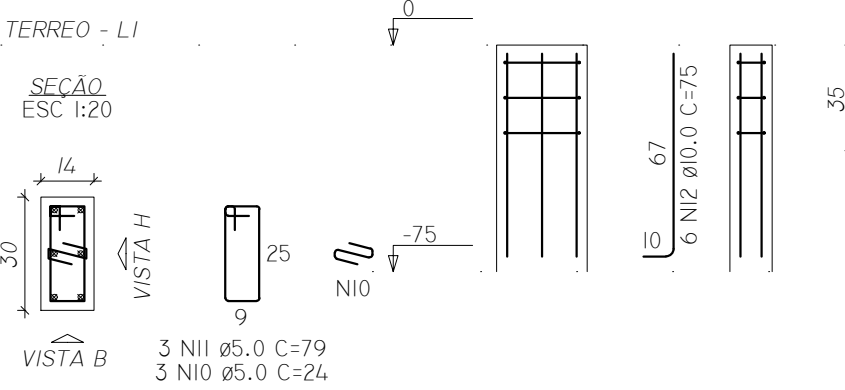
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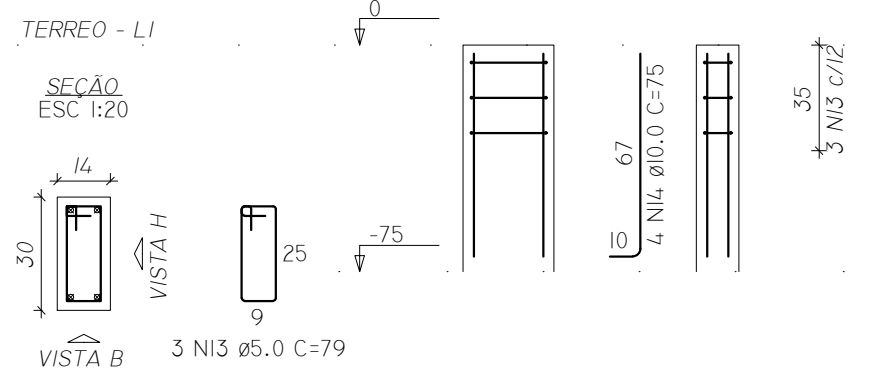
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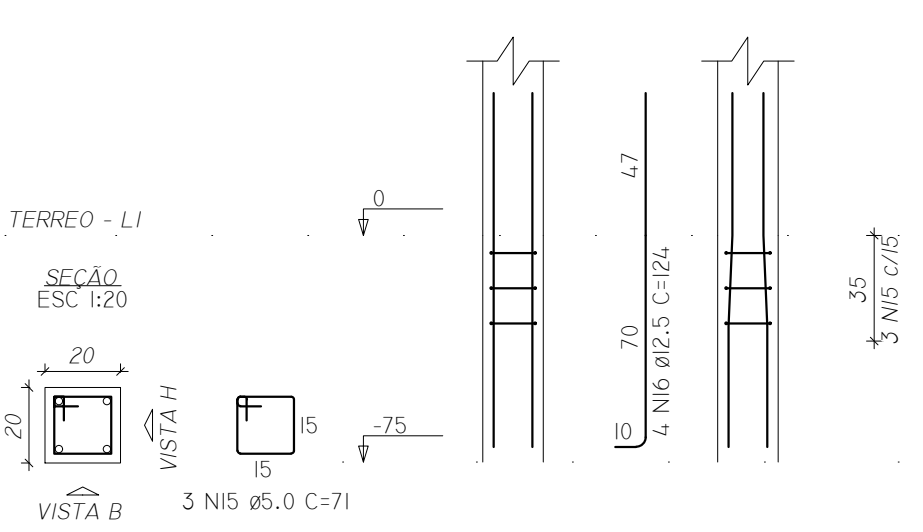
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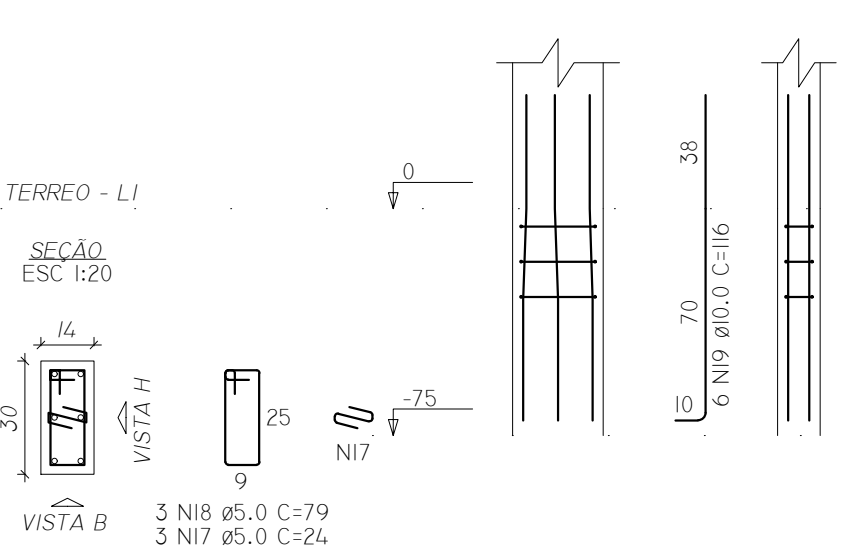
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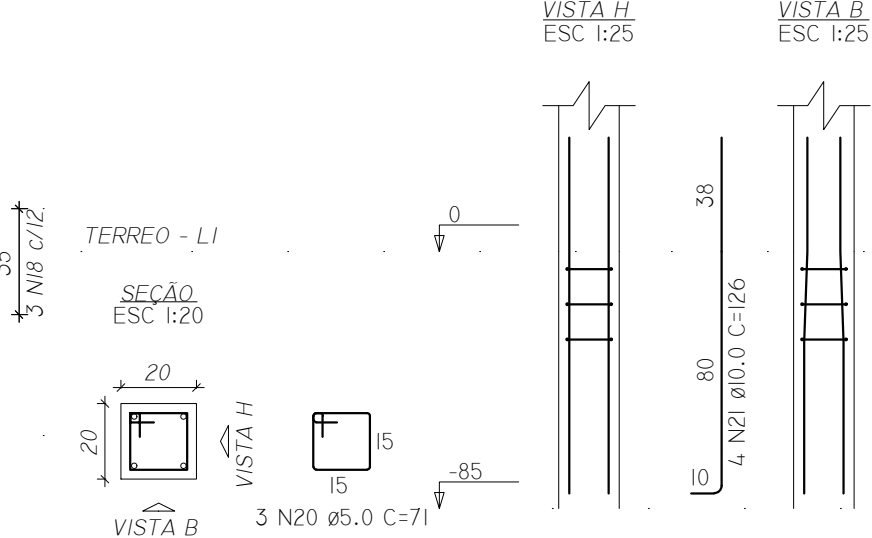
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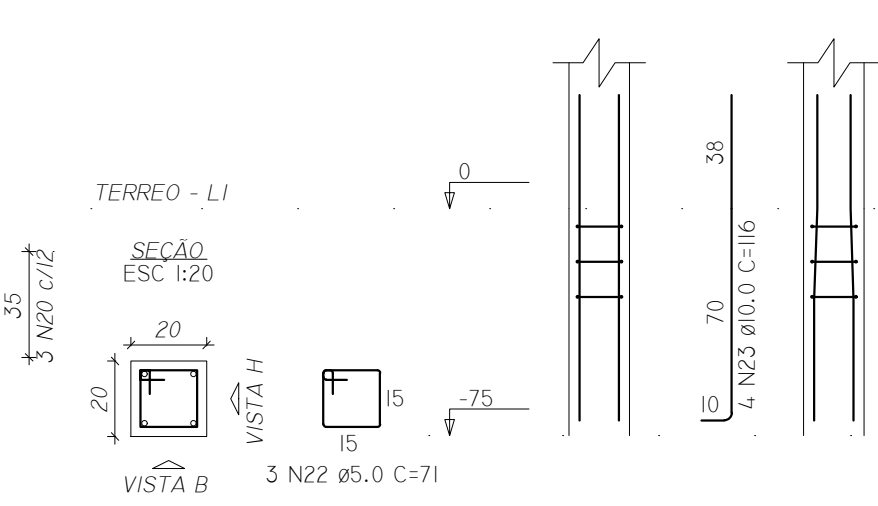
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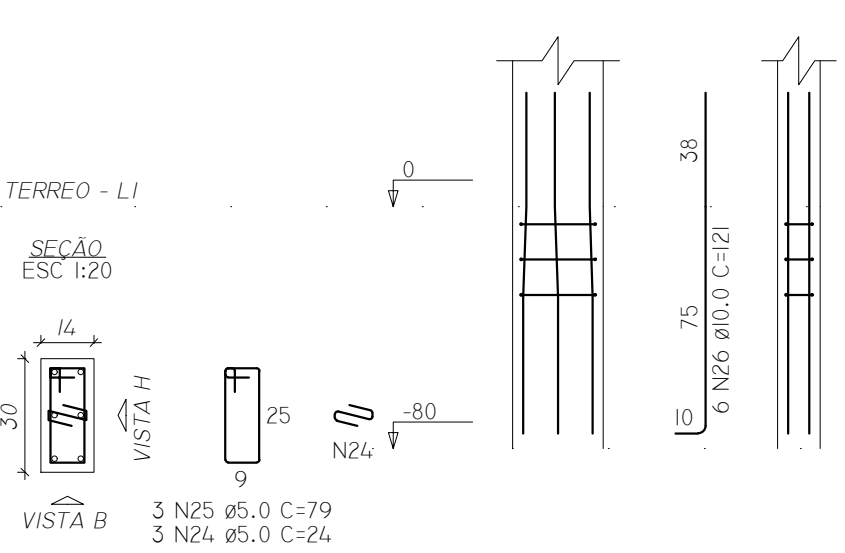
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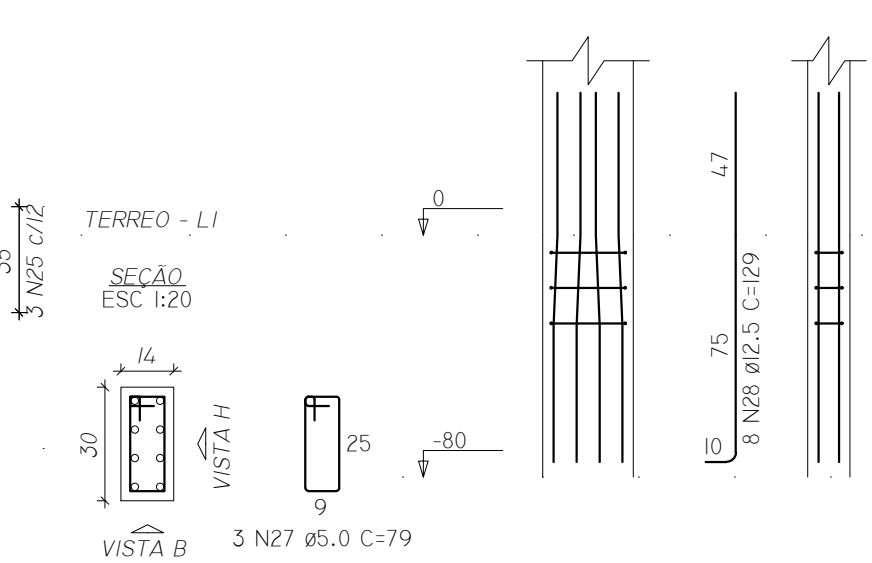
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P18



P21



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (MM)	QUANT	C.UNIT (CM)	C.TOTAL (CM)
4xP1	CA60	1	5.0	12	24	288
	CA60	2	5.0	12	79	948
	CA50	3	12.5	24	124	2976
2xP2	CA60	4	5.0	6	79	474
	CA50	5	10.0	8	121	968
2xP3	CA60	6	5.0	6	24	144
	CA60	7	5.0	6	79	474
	CA50	8	10.0	4	80	320
P7	CA50	9	10.0	8	121	968
	CA60	10	5.0	3	24	72
	CA60	11	5.0	3	79	237
P8	CA50	12	10.0	6	75	450
	CA60	13	5.0	3	79	237
2xP9	CA60	14	10.0	4	75	300
	CA60	15	5.0	6	71	426
2xP10	CA50	16	12.5	8	124	992
	CA60	17	5.0	6	24	144
3xP11	CA60	18	5.0	6	79	474
	CA50	19	10.0	12	116	1392
2xP13	CA60	20	5.0	9	71	639
	CA50	21	10.0	12	126	1512
P18	CA60	22	5.0	6	71	426
	CA50	23	10.0	8	116	928
P21	CA60	24	5.0	3	24	72
	CA50	25	5.0	3	79	237
	CA60	26	10.0	6	121	726
	CA50	27	5.0	3	79	237
	CA50	28	12.5	8	129	1032

RESUMO DO AÇO

AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	10.0	75.6	51.3
CA60	12.5	50	53
CA60	5.0	55.3	9.4
PESO TOTAL (KG)			
CA50	104.3		
CA60	9.4		

VOLUME DE CONCRETO (C-25) = 0.30 m³  
ÁREA DE FORMA = 13.94 m²



AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)



TÍTULO: PROJETO ESTRUTURAL EXECUTIVO

LOCAL: RUA BALTAZAR SALDANHA, 1591 BAIRRO JARDIM CENTRO

MUNICÍPIO: PONTA PORÃ/ MS

PROPRIETÁRIO: União - Tribunal Regional Eleitoral de MS  
CNPJ: 03.883.929/0001-02  
Diogo Campos dos Anjos - Coordenador de Eng. TRE/MS  
CPF: 037.436.459-12

AUTOR DO PROJETO: ELEMENTO Engenharia e Arquitetura  
CNPJ: 33.545.436/0001-15  
CREA: 20196 / MS

Resp Téc. Eng. Marcella Lima  
CREA: 61634/D-MS

Resp Téc. Arq. Vanessa Souza  
CAU: A229391-9

CONTEÚDO: ARRANQUES DE PILARES

FASE: EXECUTIVO

PRANCHA Nº: EST-06/15

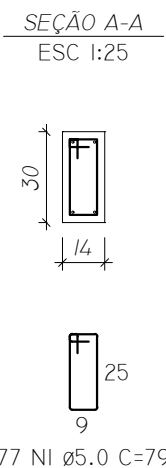
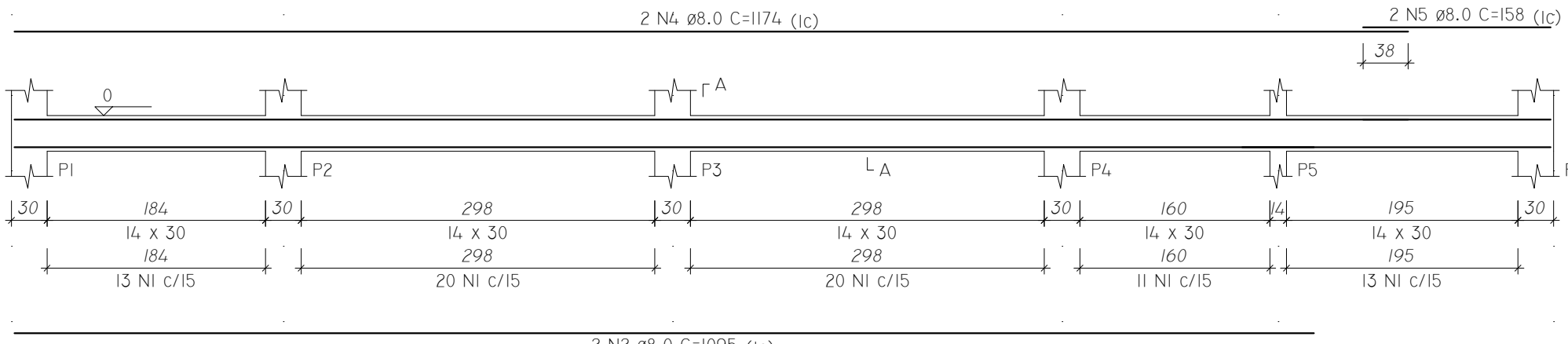
ESCALA: INDICADAS

DATA: ABRIL/2022

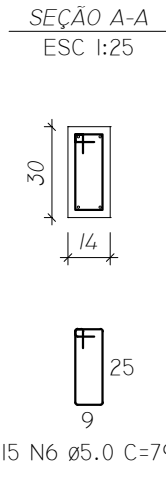
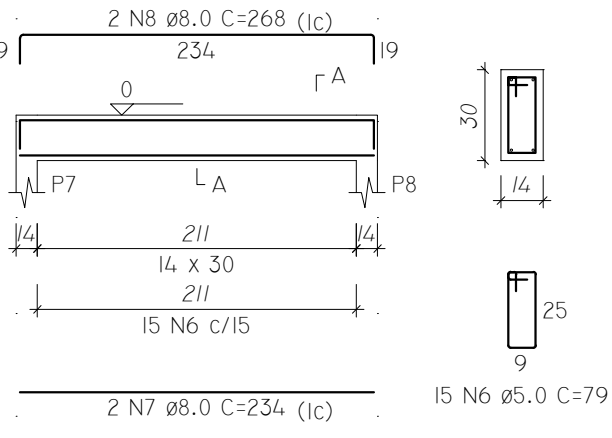
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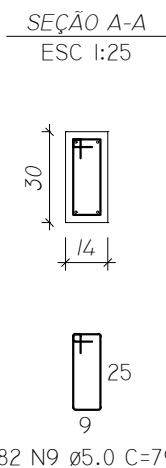
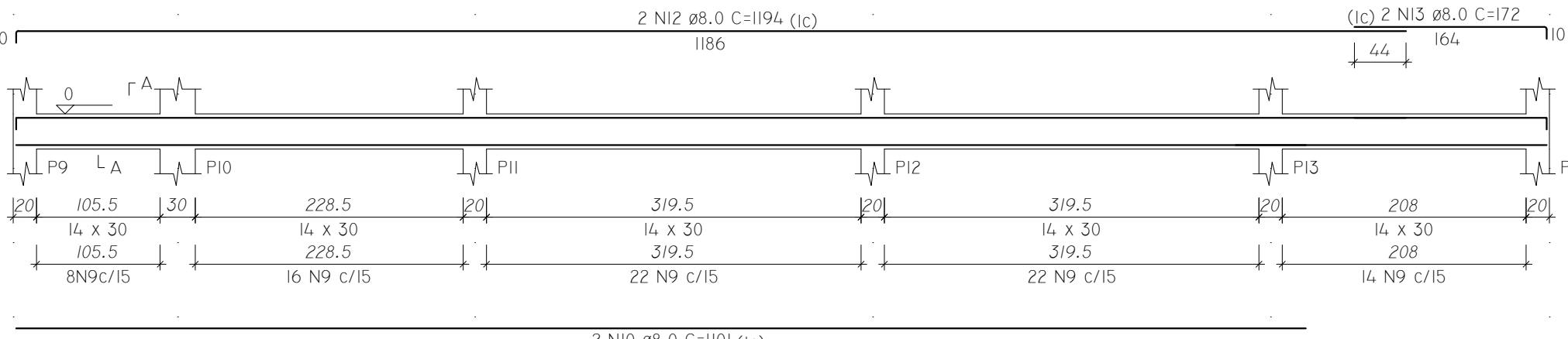
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ESC 1:50



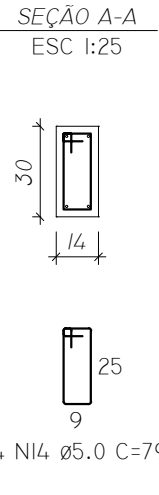
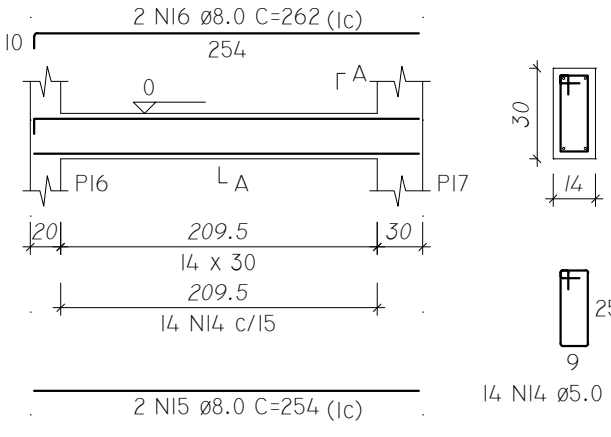
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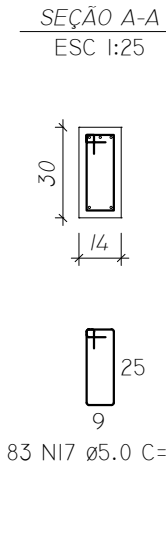
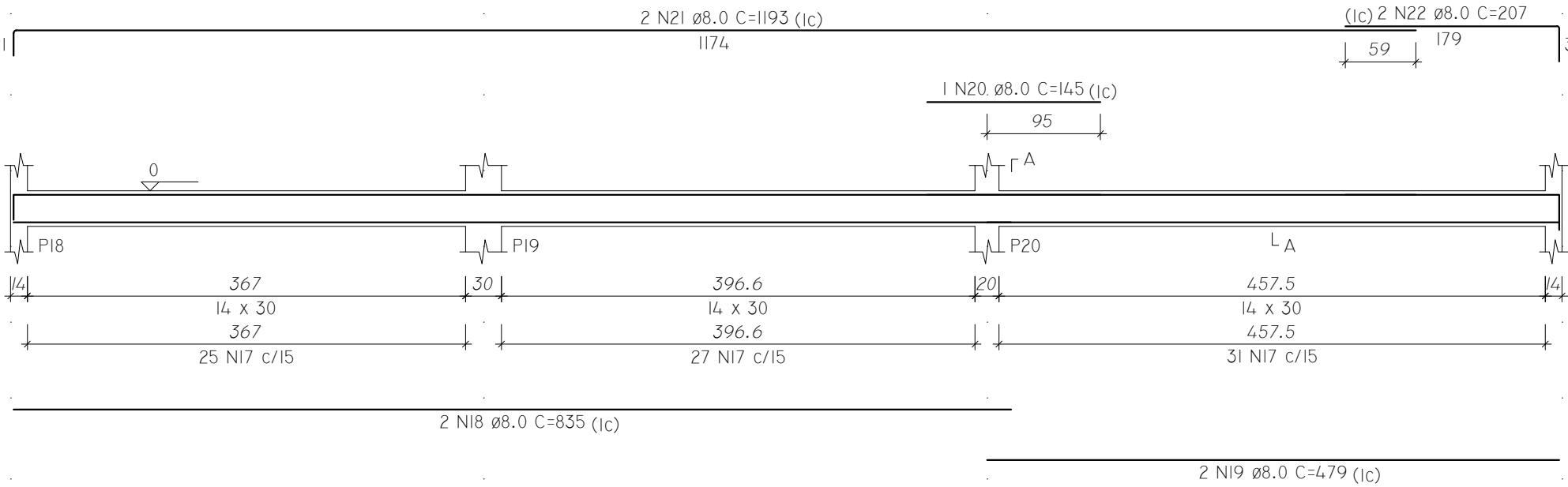
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ESC 1:50



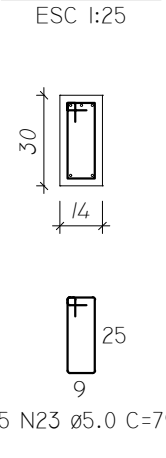
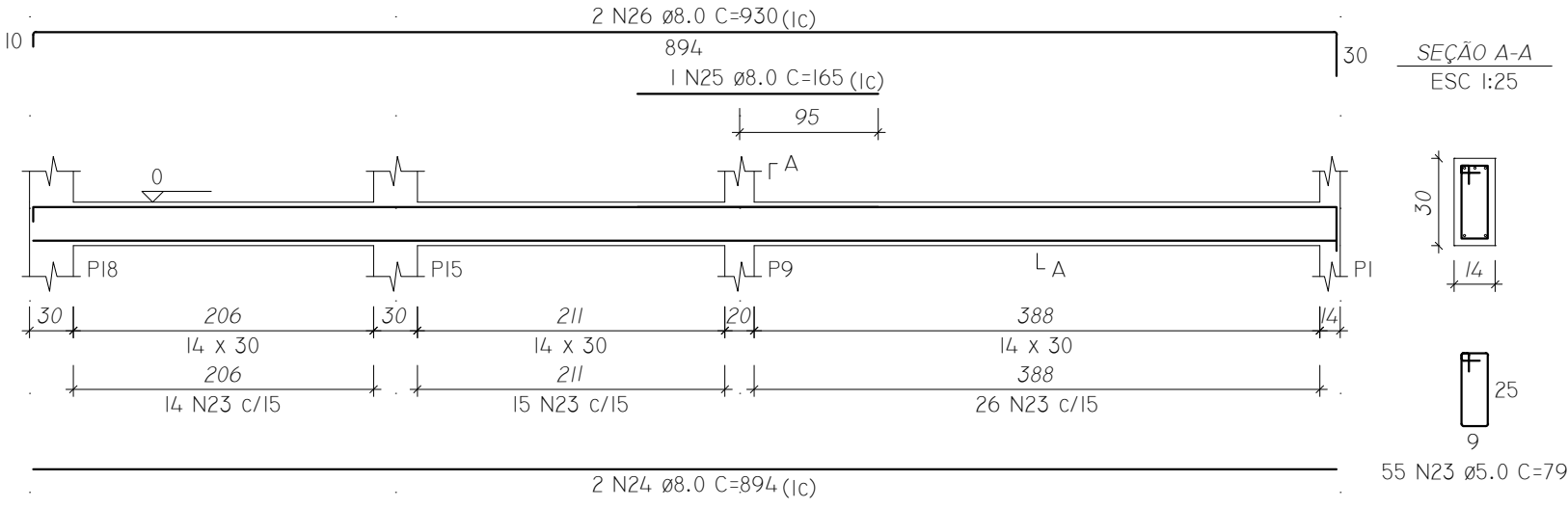
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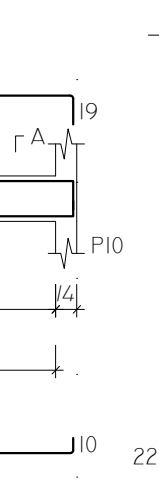
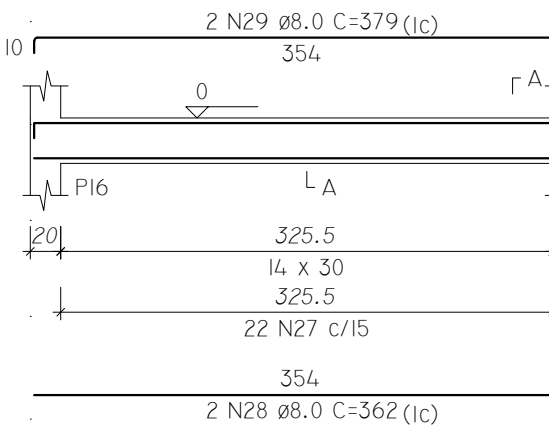
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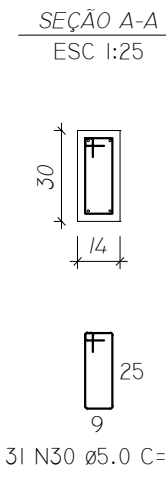
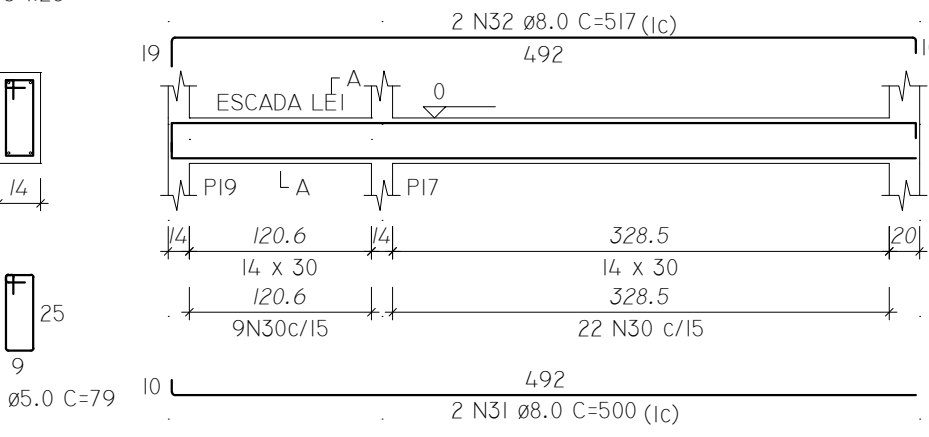
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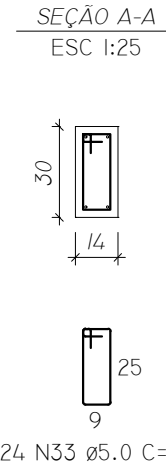
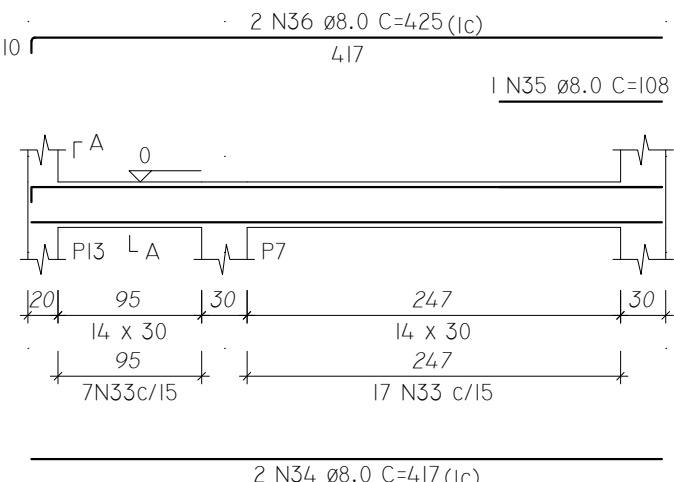
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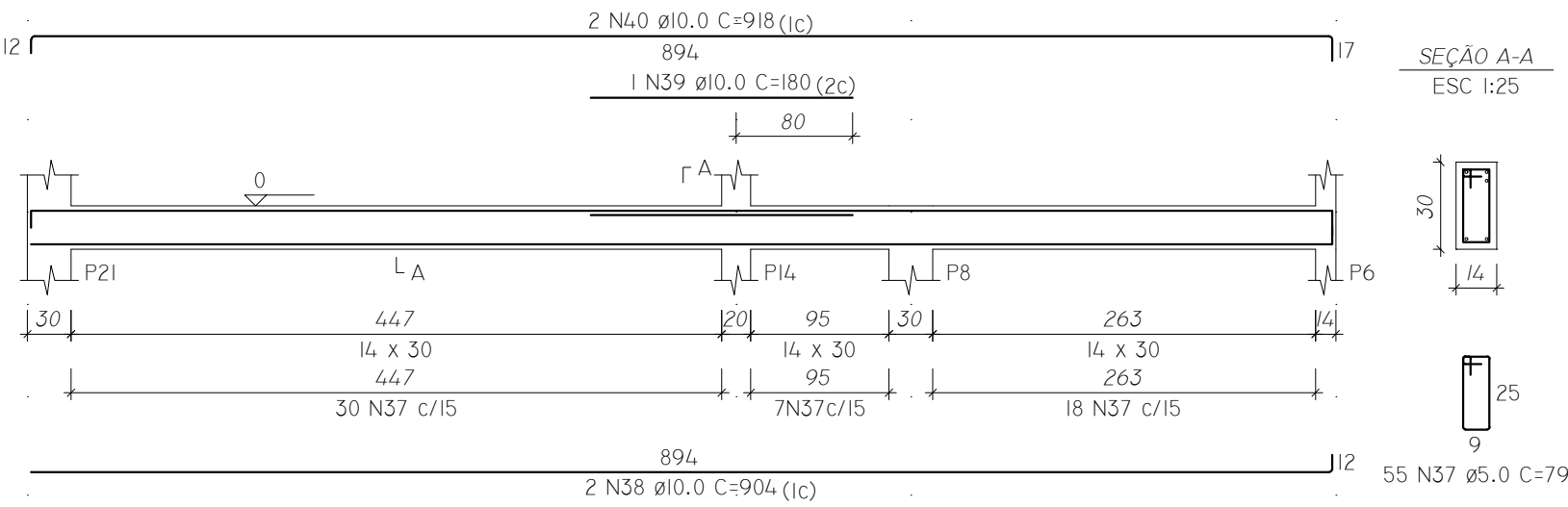
VB8  
ESC 1:50



VB9  
ESC 1:50



VB10  
ESC 1:50



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB1	CA60	1	5.0	77	79	6083
	CA50	2	8.0	2	1095	2190
	CA50	3	8.0	2	260	520
	CA50	4	8.0	2	1174	2348
	CA50	5	8.0	2	158	316
VB2	CA60	6	5.0	15	79	1185
	CA50	7	8.0	2	234	468
	CA50	8	8.0	2	268	536
	CA60	9	5.0	82	79	6478
	CA50	10	8.0	2	1101	2202
VB3	CA50	11	8.0	2	266	532
	CA50	12	8.0	2	1194	2388
	CA50	13	8.0	2	172	344
	CA60	14	5.0	14	79	1106
	CA50	15	8.0	2	254	508
VB4	CA50	16	8.0	2	262	524
	CA60	17	5.0	83	79	6557
	CA50	18	8.0	2	835	1670
	CA50	19	8.0	2	479	958
	CA50	20	8.0	1	145	145
VB5	CA50	21	8.0	2	1193	2386
	CA50	22	8.0	2	207	414
	CA60	23	5.0	55	79	4345
	CA50	24	8.0	2	894	1788
	CA50	25	8.0	1	165	165
VB6	CA50	26	8.0	2	930	1860
	CA60	27	5.0	22	79	1738
	CA50	28	8.0	2	362	724
	CA50	29	8.0	2	379	758
	CA60	30	5.0	31	79	2449
VB7	CA50	31	8.0	2	500	1000
	CA50	32	8.0	2	517	1034
	CA60	33	5.0	24	79	1896
	CA50	34	8.0	1	417	834
	CA50	35	8.0	1	108	108
VB8	CA50	36	8.0	2	425	850
	CA60	37	5.0	55	79	4345
	CA50	38	10.0	2	904	1808
	CA50	39	10.0	1	180	180
	CA50	40	10.0	2	918	1836

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	275.7	119.7
CA60	10.0	38.2	25.9
CA60	5.0	361.8	61.3
PESO TOTAL (kg)			
CA50	145.6		
CA60	61.3		

VOLUME DE CONCRETO (C-25) = 2.81 m³  
ÁREA DE FORMA = 55.38 m²

AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)

TÍTULO

PROJETO ESTRUTURAL EXECUTIVO

LOCAL

RUA BALTAZAR SALDANHA, 1591  
BAIRRO JARDIM CENTRO

MUNICÍPIO

PONTA PORÃ/ MS

PROPRIETÁRIO

AUTOR DO PROJETO

União - Tribunal Regional Eleitoral de MS  
CNPJ: 03.863.928/0001-02  
Diogo Campos dos Anjos - Coordenador de Eng. TREMS  
CPF: 037.438.458-12

ELEMENTO Engenharia e Arquitetura  
CNPJ: 31.545.436/0001-15  
CREA: 20196 / MS

Resp Téc: Eng. Marcelia Lima  
CREA: 61634/D-MS

Resp Téc: Arq. Vanessa Souza  
CAU: A229391-9

CONTEÚDO

VIGAS BALDRAME

FASE

EXECUTIVO

PRIMEIRA FÉ

ESCALA

INDICADAS

DATA

ABRIL/2022

REVISÃO

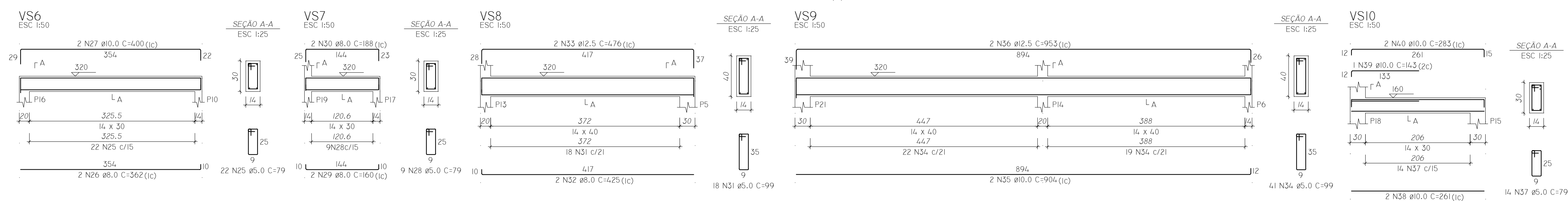
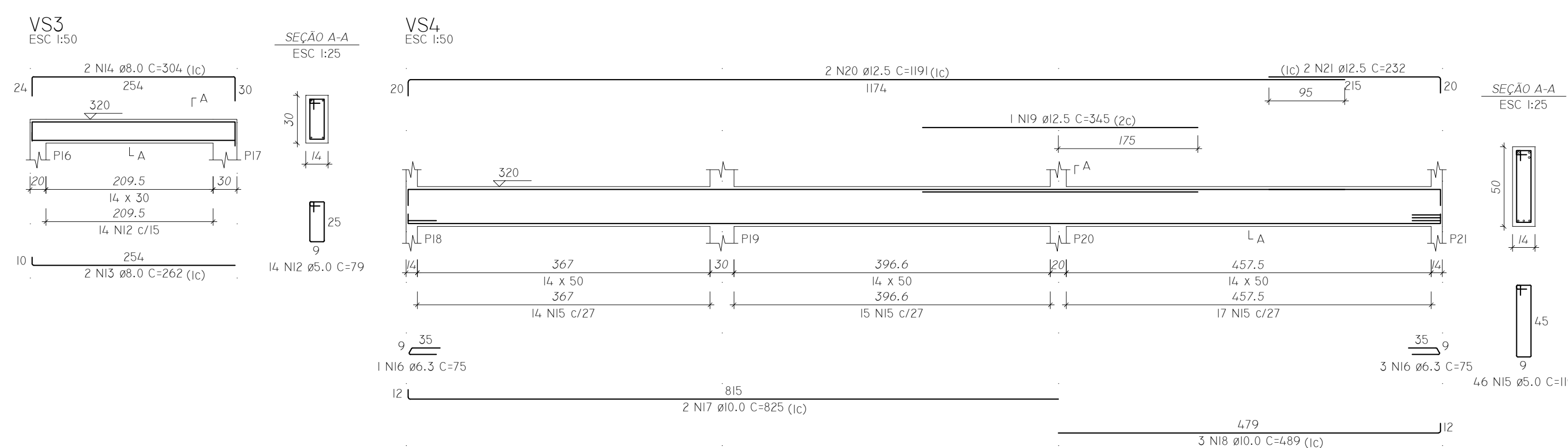
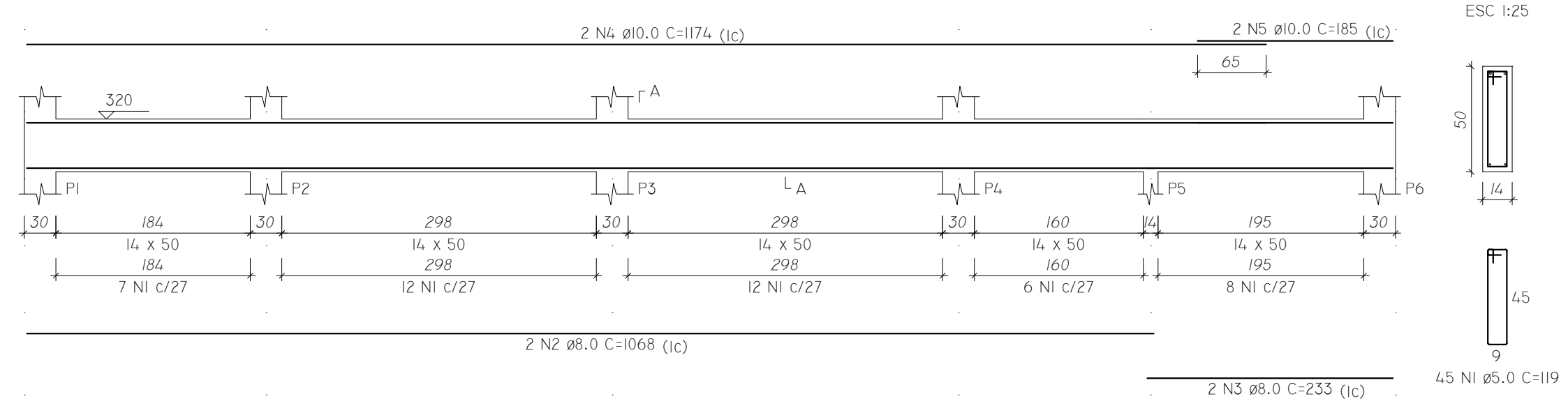
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ART.

EST-07/15





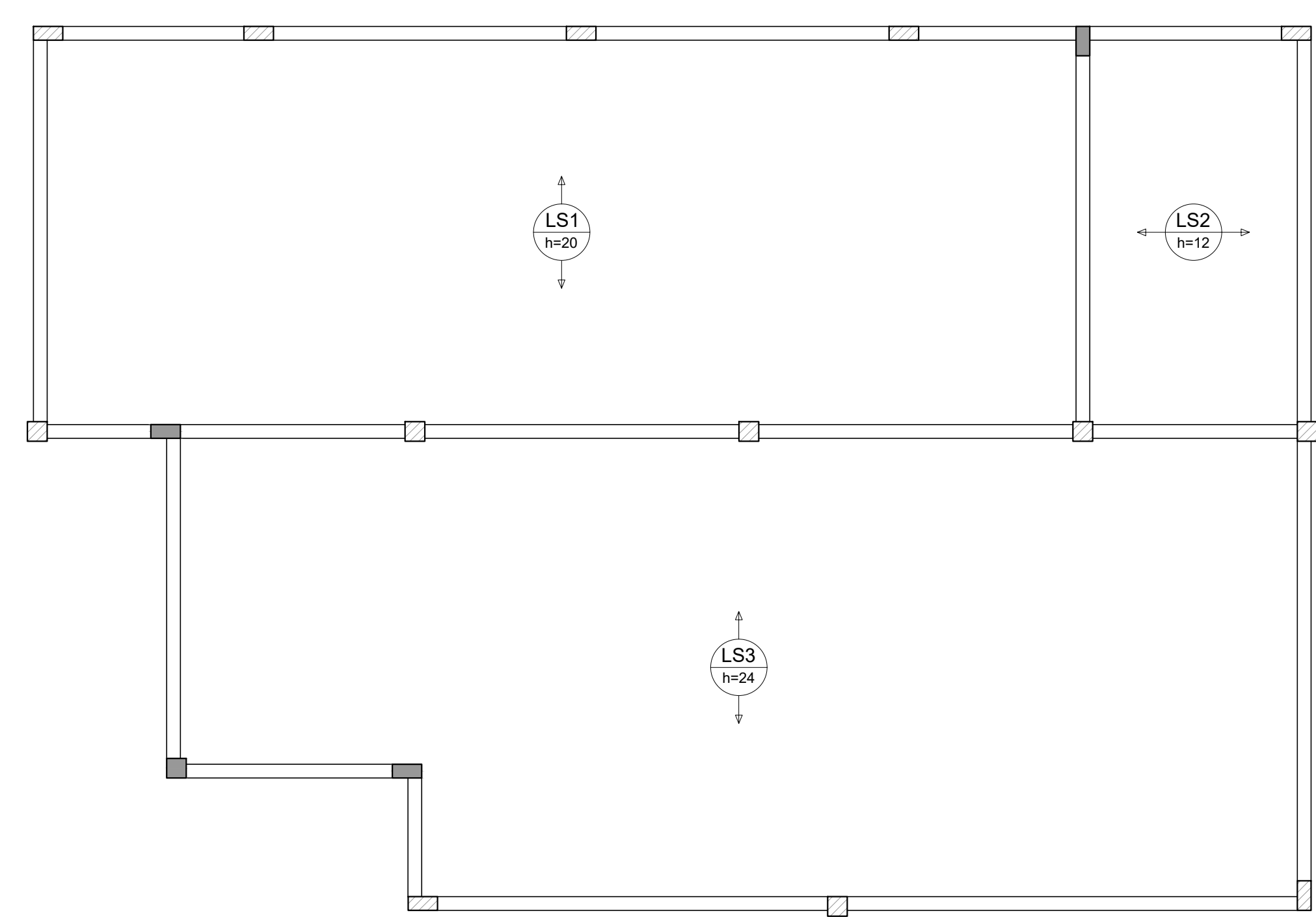


RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT. (cm)	C.TOTAL (cm)
VS1	CA60	1	5,0	45	199	5355
	CA50	8	8,0	2	1068	2136
	CA50	3	8,0	2	233	466
	CA50	4	10,0	2	1174	2348
VS2	CA50	5	10,0	2	185	370
	CA60	6	5,0	46	119	5474
	CA50	7	10,0	2	1081	2162
	CA50	8	10,0	2	246	492
VS3	CA50	10	10,0	2	280	560
	CA50	10	10,0	2	1198	2396
	CA50	11	10,0	2	250	460
	CA60	12	5,0	14	79	1106
VS4	CA50	13	8,0	2	262	524
	CA50	14	8,0	2	304	608
	CA60	15	5,0	46	119	5474
	CA50	16	5,0	4	75	300
VS5	CA50	17	10,0	2	825	1650
	CA50	18	10,0	3	489	947
	CA50	19	12,5	1	345	345
	CA50	20	12,5	1	191	2382
VS5	CA50	21	12,5	2	232	464
	CA60	22	5,0	41	99	4059
	CA50	23	10,0	2	913	1826
	CA50	24	12,5	2	951	1902
VS6	CA60	25	5,0	22	79	1738
	CA50	26	8,0	2	362	724
VS7	CA50	27	10,0	2	400	800
	CA60	28	5,0	9	79	711
VS8	CA50	29	8,0	2	160	320
	CA50	30	8,0	2	188	376
VS9	CA60	31	5,0	18	99	1782
	CA50	32	8,0	2	425	850
VS9	CA50	33	12,5	2	476	952
	CA60	34	5,0	41	99	4059
VS10	CA50	35	10,0	2	904	1808
	CA60	36	12,5	2	953	1906
	CA60	37	5,0	14	79	1106
	CA50	38	10,0	2	261	522
	CA50	39	10,0	1	153	153
	CA50	40	10,0	2	283	566

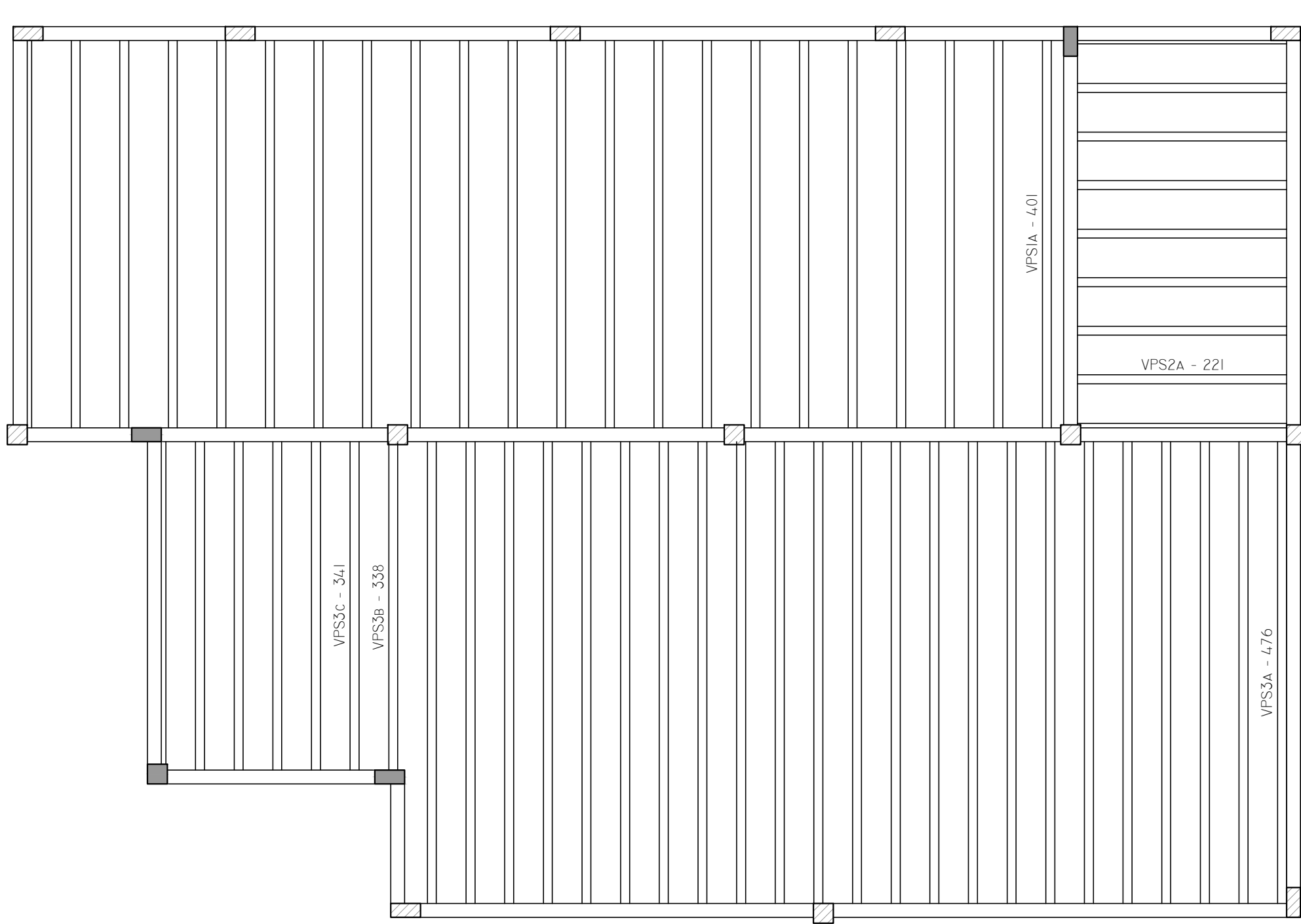
RESUMO DO AÇO			
AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	6.3	3	0.8
	8.0	60	26.1
	10.0	175.7	119.2
	12.5	79.5	84.3
CA60	5.0	308.6	52.3
PESO TOTAL (KG)			
CA50	230.3		
CA60	52.3		

VOLUME DE CONCRETO (C-25) = 3.98 m<sup>3</sup>  
ÁREA DE FORMA = 73.08 m<sup>2</sup>

<div><div>AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)</div></div> <div></div>				
TÍTULO				
PROJETO ESTRUTURAL EXECUTIVO				
LOCAL	MUNICÍPIO			
RUA BALTAZAR SALDANHA, 1591 BAIRRO JARDIM CENTRO	PONTA PORÃ/ MS			
PROPRIETÁRIO	AUTOR DO PROJETO			
<div>União – Tribunal Regional Eleitoral de MS CNPJ: 03.863.929/0001-02 Diogo Campos dos Anjos – Coordenador de Eng. TREMS CPF: 037.438.459-12</div>	<div>ELEMENTO Engenharia e Arquitetura CNPJ: 33.545.438/0001-15 CREA: 20196 / MS</div> <div><div>Resp Téc: Eng. Marcelina Lima CREA: 61634/D-MS Resp Téc: Arq. Vanessa Souza CAU: A229391-9</div></div>			
CONTEÚDO	FASE			
VIGA SUPERIOR	EXECUTIVO			
ESCALA	DATA	REVISÃO	ART	PRANCHA Nº
INDICADAS	ABRIL/2022	00		EST-09/15

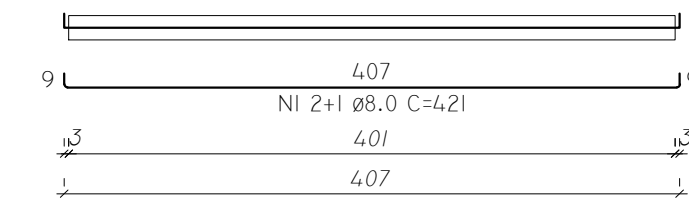


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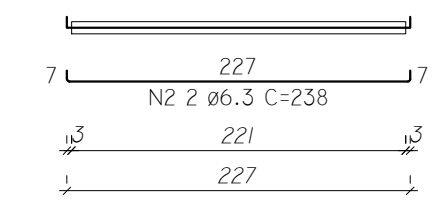


PLANTA DE VIGOTAS PRÉ-MOLDADAS  
ESCALA 1:50

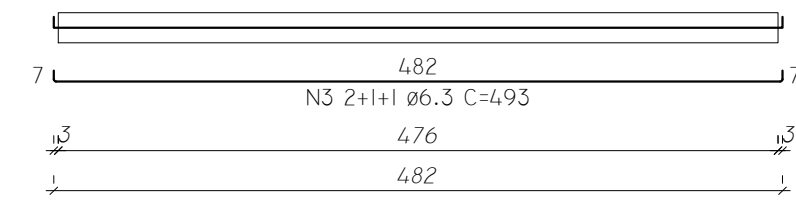
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(LS1)  
ESC 1:50



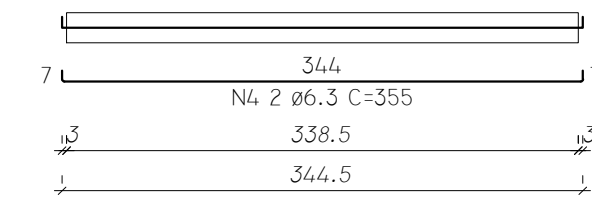
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(LS2)  
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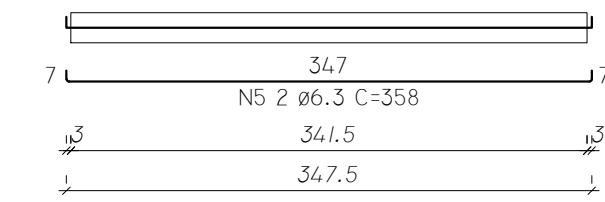
VPS3A (23 UNIDADES)  
(LS3)  
ESC 1:50



VPS3B (1 UNIDADES)  
(LS3)  
ESC 1:50



VPS3C (5 UNIDADES)  
(LS3)  
ESC 1:50



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
21xVPS1A	CA50	1	8,0	63	421	26523
7xVPS2A	CA50	2	6,3	14	238	3332
23xVPS3A	CA50	3	6,3	92	493	45356
VPS3B	CA50	4	6,3	2	355	710
5xVPS3C	CA50	5	6,3	10	358	3580

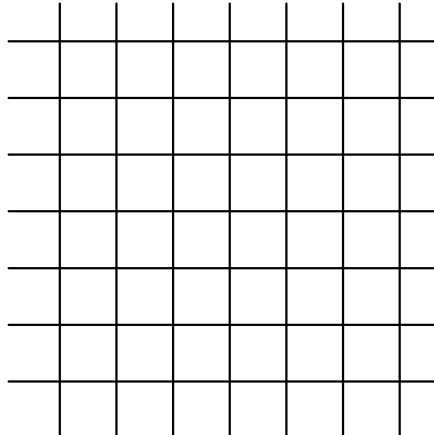
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6,3	529,8	142,6
CA50	8,0	265,2	115,1
PESO TOTAL (kg)			
CA50	257,7		

VOLUME DE CONCRETO (C-25) = 0,00 M³  
ÁREA DE FORMA = 0,00 M²

- NOTAS:
- 1 - MEDIDAS E ELEVAÇÕES EM CENTÍMETROS.
  - 2 - PRAZOS DE DESFORMAS:
    - FACES LATERAIS: 7 DIAS.
    - FACES INFERIORES: 14 DIAS, (DEIXANDO ALGUMAS ESTACAS ENCUNHADAS).
    - FACES INFERIORES: 28 DIAS, (SEM PONTALETES).
    - PREVER RESCORA PARCIAL QUANDO NECESSÁRIO.
  - 3 - VOLUME DE CONCRETO : 3,95 M³ (Fck=25MPa)

MALHA Ø5,0 C/30



AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)

TÍTULO

PROJETO ESTRUTURAL EXECUTIVO

LOCAL

RUA BALTAZAR SALDANHA, 1591  
BAIRRO JARDIM CENTRO

MUNICÍPIO

PONTA PORÃ/ MS

PROPRIETÁRIO

AUTOR DO PROJETO

União - Tribunal Regional Eleitoral de MS  
CNPJ: 03.853.929/0001-02  
Diogo Campos dos Anjos - Coordenador de Eng. TREMS  
CPF: 037.438.458-12

ELEMENTO Engenharia e Arquitetura  
CNPJ: 33.545.438/0001-15  
CREA: 20196 / MS

Resp Téc: Eng. Marcelle Lima  
CREA: 61634/D-MS  
Resp Téc: Arq. Vanessa Souza  
CAU: A229391-9

CONTEÚDO

LAJE SUPERIOR  
DETALHAMENTO DAS VIGOTAS PRÉ-MOLDADAS

ESCALA

INDICADAS

DATA

ABRIL/2022

FASE

EXECUTIVO

PRANCHAS Nº

EST-10/15

PI=P6

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

P2=P3=P4=PI9

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

P9=PI4

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

PII=PI2=PI3

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (MM)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xPI	CA60	1	5.0	46	24	1104
	CA60	2	5.0	46	79	3634
	CA50	3	12.5	4	317	1268
	CA60	4	12.5	8	367	2936
4xP2	CA60	5	5.0	108	79	8532
	CA50	6	10.0	16	358	5728
	CA60	7	5.0	44	71	3124
	CA50	8	12.5	8	367	2936
2xP9	CA60	9	5.0	81	71	5751
	CA50	10	10.0	12	317	3804
	CA60	11	5.0	27	24	648
	CA50	12	5.0	27	79	2133
PI8	CA60	13	10.0	6	358	2148
	CA60	14	5.0	27	71	1917
	CA50	15	10.0	4	358	1432
	CA60	16	5.0	23	79	1817
P2I	CA50	17	12.5	8	367	2936

RESUMO DO AÇO

AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	10.0	131.1	88.9
CA60	12.5	100.8	106.8
CA60	5.0	286.6	48.6
PESO TOTAL (KG)			
CA50	195.7		
CA60	48.6		

VOLUME DE CONCRETO (C-25) = 1.84 M<sup>3</sup>  
ÁREA DE FORMA = 37.89 M<sup>2</sup>

PI8

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

P20

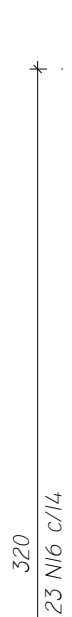
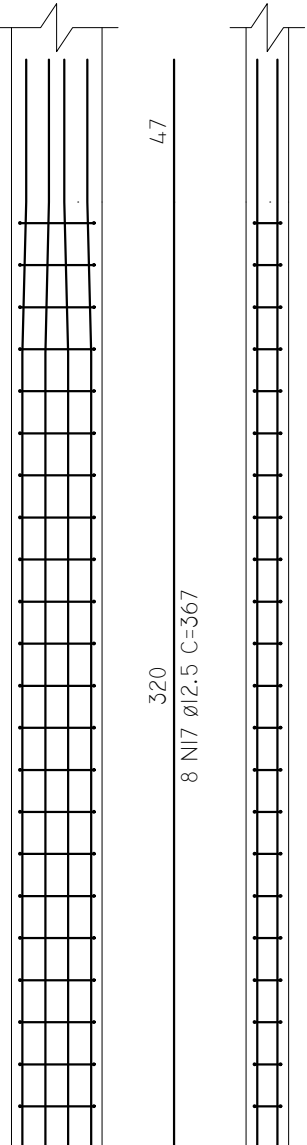
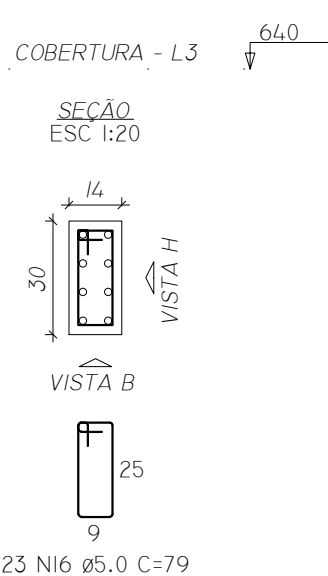
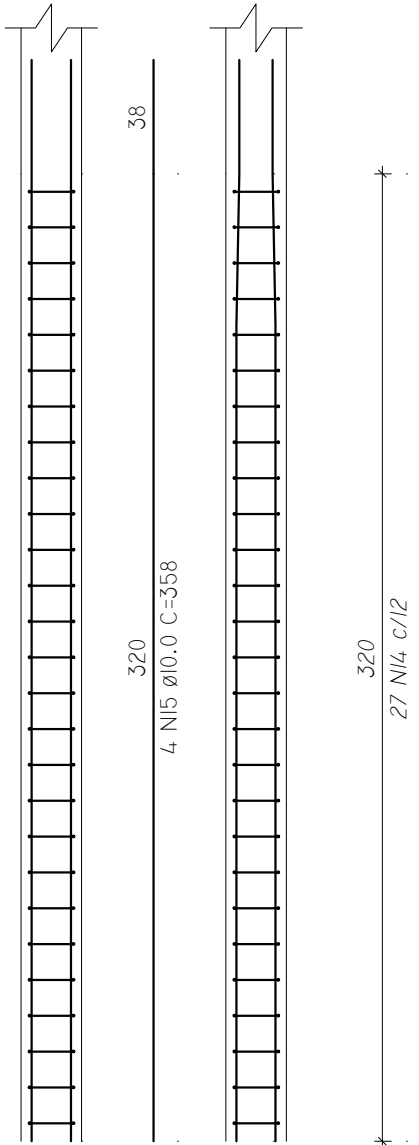
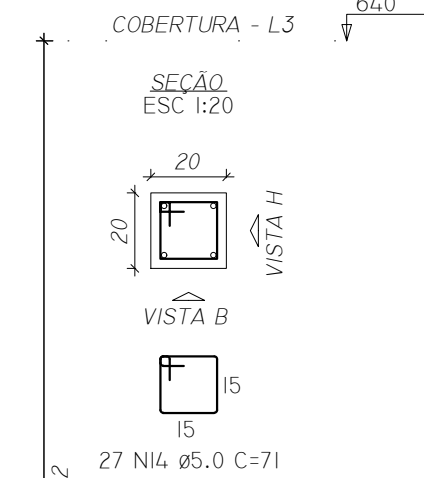
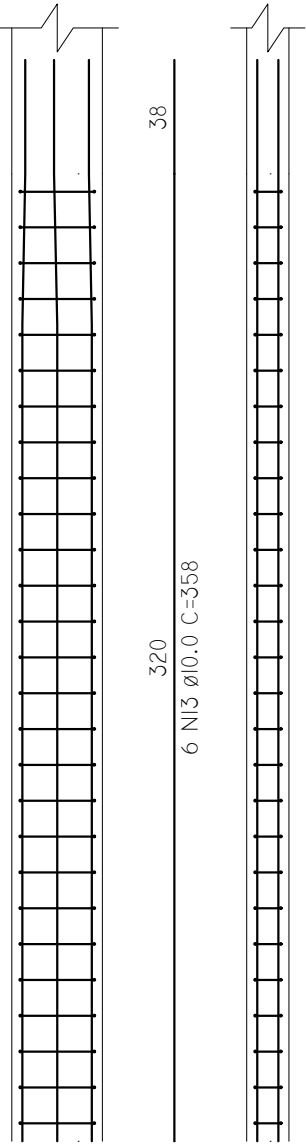
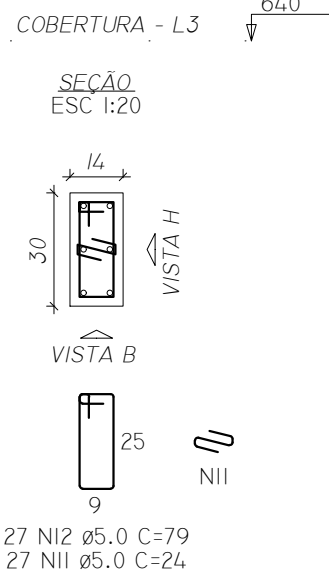
VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

P2I

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25





AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)

TÍTULO:

PROJETO ESTRUTURAL EXECUTIVO

LOCAL:

RUA BALTAZAR SALDANHA, 1591  
BAIRRO JARDIM CENTRO

MUNICÍPIO:

PONTA PORÃ/ MS

PROPRIETÁRIO:

União - Tribunal Regional Eleitoral de MS  
CNPJ: 03.883.929/0001-02  
Diogo Campos dos Anjos - Coordenador de Eng. TRE/MS  
CPF: 037.436.459-12

AUTOR DO PROJETO:

ELEMENTO Engenharia e Arquitetura  
CNPJ: 33.545.436/0001-15  
CREA: 20196 / MS  
  
Resp Téc. Eng. Marcella Lima  
CREA: 61634/D-MS  
Resp Téc. Arq. Vanessa Souza  
CAU: A229391-9

CONTEÚDO:

PILAR SUPERIOR - COBERTURA

FASE:

EXECUTIVO

PRANCHA Nº:

EST-11/15

ESCALA:

INDICADAS

DATA:

ABRIL/2022

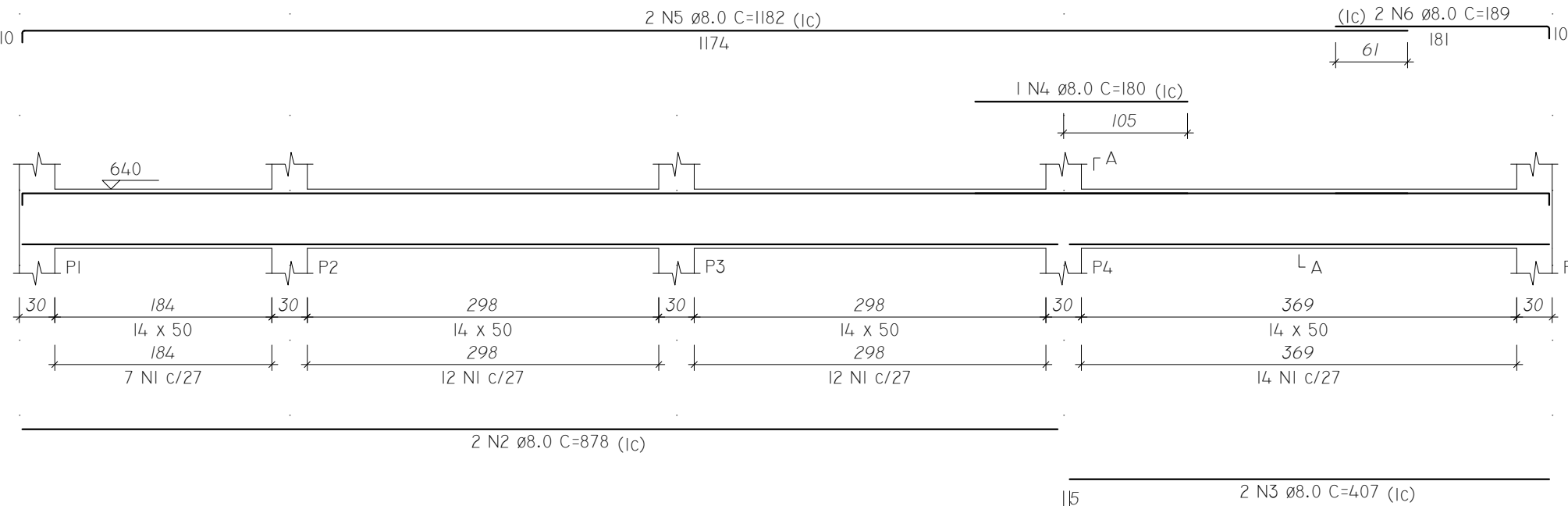
REVISÃO:

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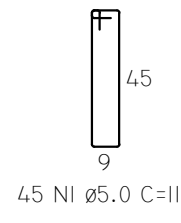
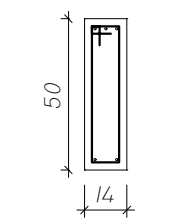
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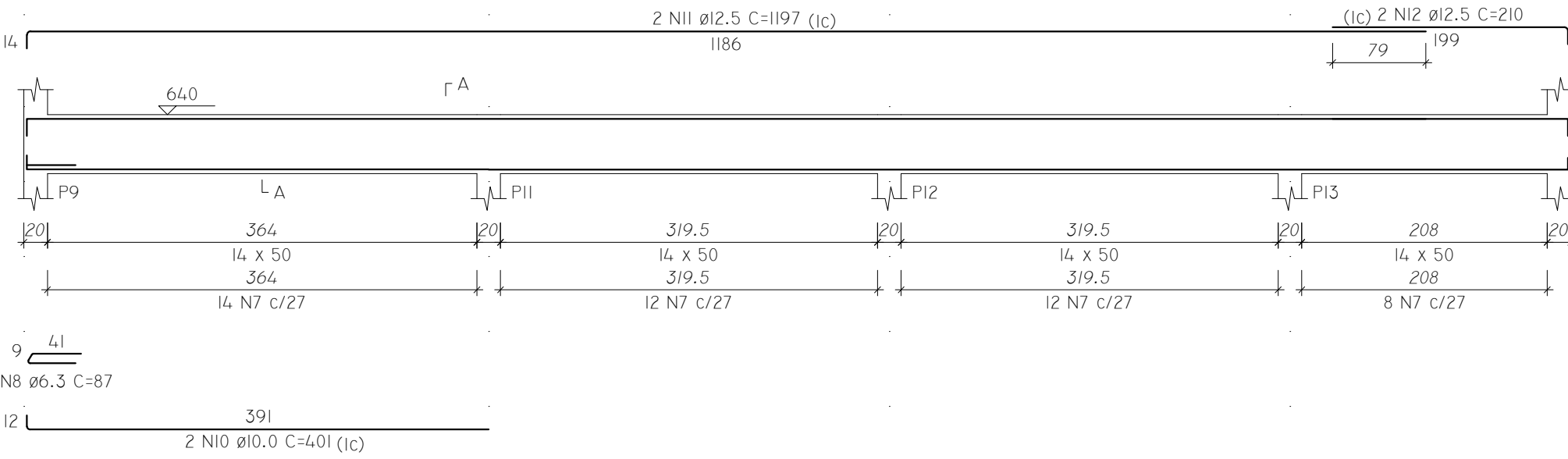
VC1  
ESC 1:50



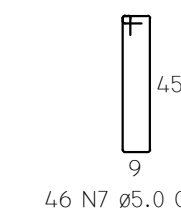
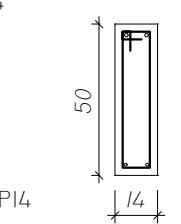
SEÇÃO A-A  
ESC 1:25



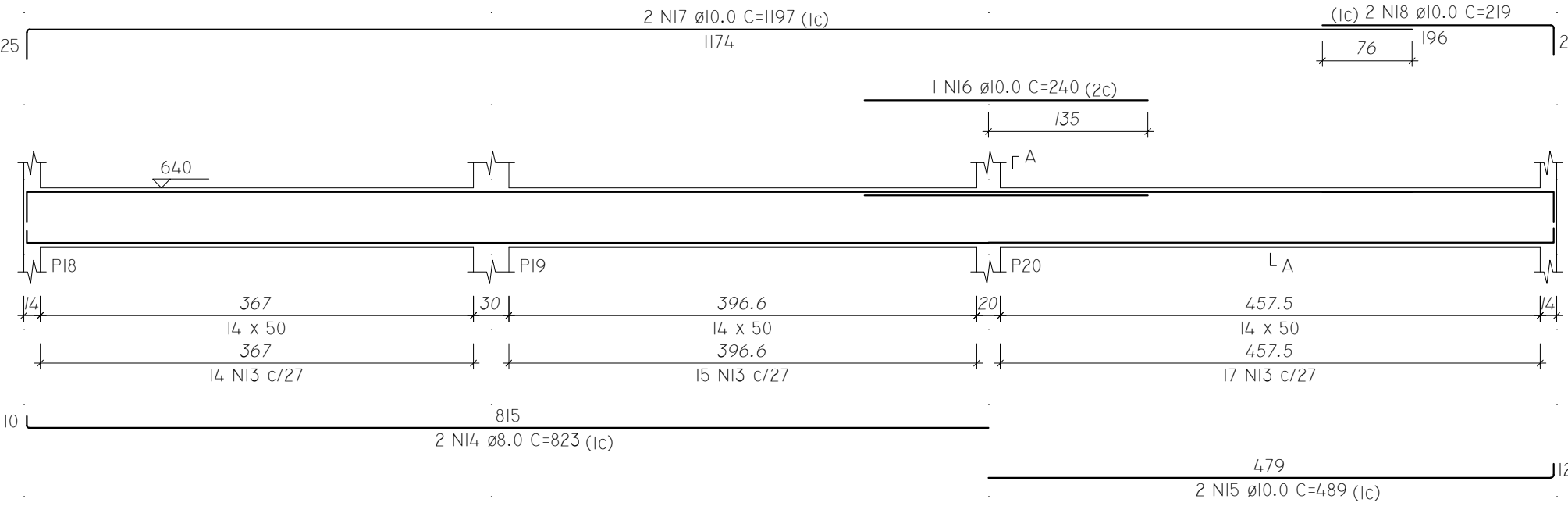
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ESC 1:50



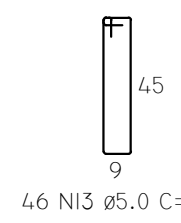
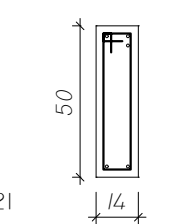
SEÇÃO A-A  
ESC 1:25



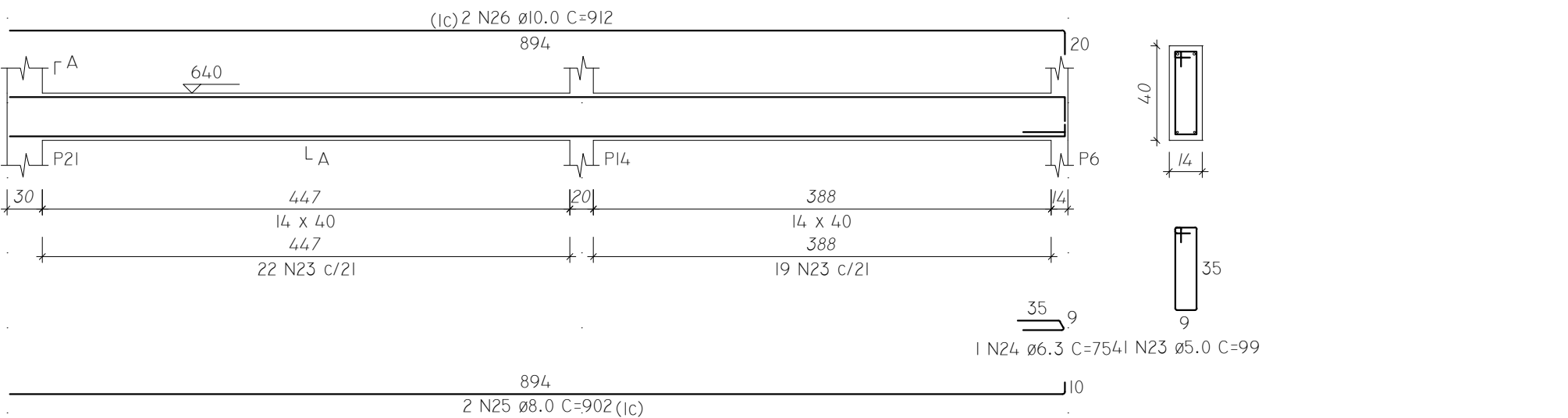
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ESC 1:50



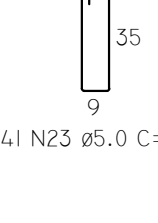
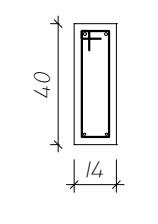
SEÇÃO A-A  
ESC 1:25



VC8  
ESC 1:50



SEÇÃO A-A  
ESC 1:25



## RELAÇÃO DO AÇO

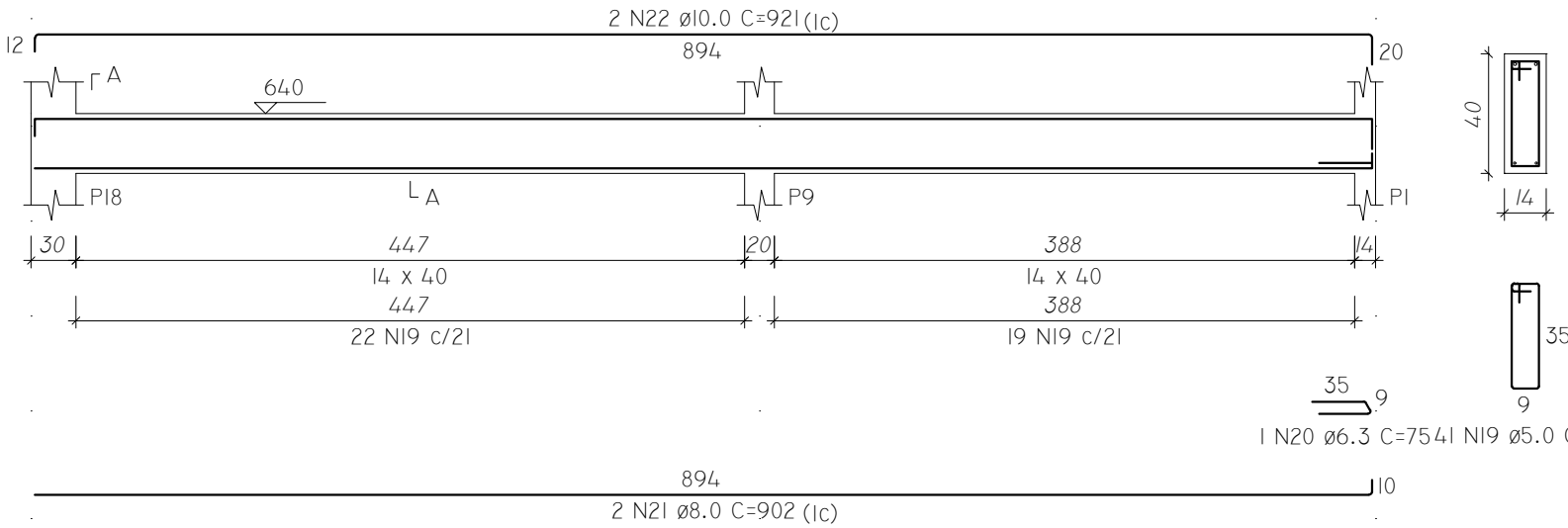
ELEMENTO	AÇO	N	DIAM (MM)	QUANT	C.UNIT (CM)	C.TOTAL (CM)
VC1	CA60	1	5.0	45	119	5355
	CA50	2	8.0	2	878	1756
	CA50	3	8.0	2	407	814
	CA50	4	8.0	1	180	180
	CA50	5	8.0	2	1182	2364
VC2	CA50	6	8.0	2	189	378
	CA60	7	5.0	46	119	5474
	CA50	8	6.3	1	87	87
	CA50	9	8.0	2	923	1846
	CA50	10	10.0	2	401	802
VC4	CA50	11	12.5	2	1197	2394
	CA50	12	12.5	2	210	420
	CA60	13	5.0	46	119	5474
	CA50	14	8.0	2	823	1646
	CA50	15	10.0	2	489	978
VC5	CA50	16	10.0	1	240	240
	CA50	17	10.0	2	1197	2394
	CA50	18	10.0	2	219	438
	CA60	19	5.0	41	99	4059
	CA50	20	6.3	1	75	75
VC8	CA50	21	8.0	2	902	1804
	CA50	22	10.0	2	921	1842
	CA60	23	5.0	41	99	4059
	CA50	24	6.3	1	75	75
	CA50	25	8.0	2	902	1804
	CA50	26	10.0	2	912	1824

## RESUMO DO AÇO

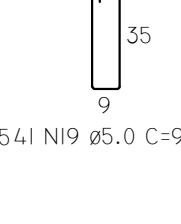
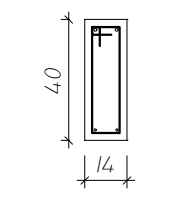
AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	6.3	2.4	0.6
	8.0	125.9	54.7
	10.0	85.2	57.8
	12.5	28.1	29.8
CA60	5.0	244.2	41.4
PESO TOTAL (KG)			
CA50	142.9		
CA60	41.4		

VOLUME DE CONCRETO (C-25) = 3.44 M³  
ÁREA DE FORMA = 61.46 M²

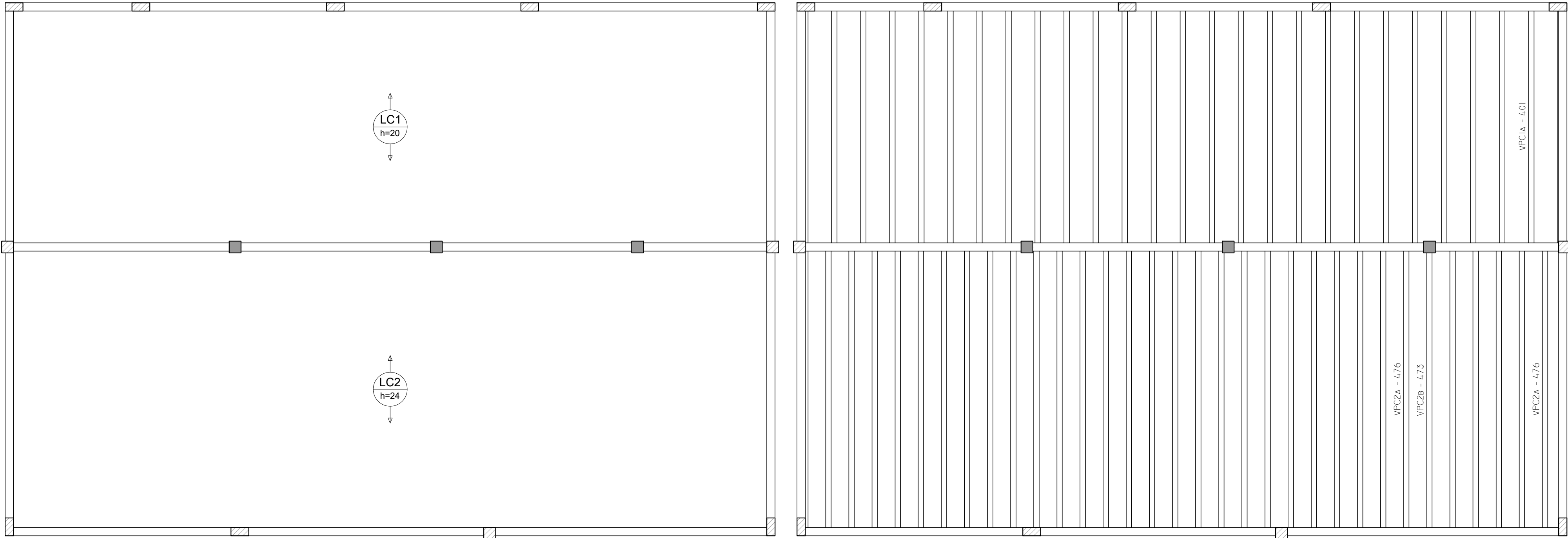
VC5  
ESC 1:50



SEÇÃO A-A  
ESC 1:25



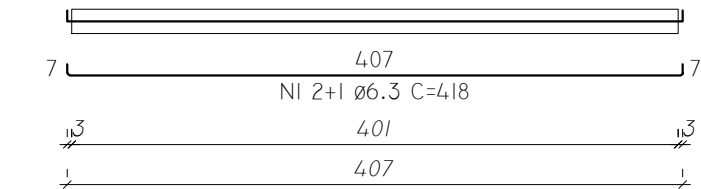
OBRA:		AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)			
TÍTULO: PROJETO ESTRUTURAL EXECUTIVO					
LOCAL: RUA BALTAZAR SALDANHA, 1591 BAIRRO JARDIM CENTRO		MUNICÍPIO: PONTA PORÃ/ MS			
PROPRIETÁRIO:		AUTOR DO PROJETO:			
União - Tribunal Regional Eleitoral de MS CNPJ: 03.883.929/0001-02 Diogo Campos dos Anjos - Coordenador de Eng. TRE/MS CPF: 037.436.459-12		ELEMENTO Engenharia e Arquitetura CNPJ: 33.545.436/0001-15 CREA: 20196 / MS  Resp Téc. Eng. Marcella Lima CREA: 61634/D-MS Resp Téc. Arq. Vanessa Souza CAU: A229391-9			
CONTEÚDO: VIGAS COBERTURA		FASE: EXECUTIVO		PRANCHA Nº: EST-12/15	
ESCALA: INDICADAS		DATA: ABRIL/2022		REVISÃO: 00	



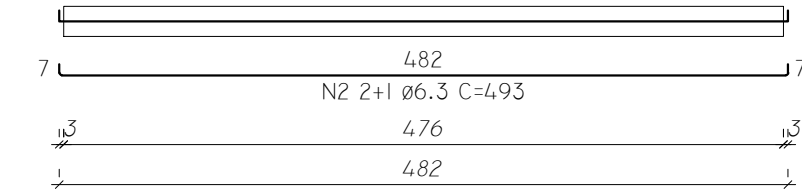
ARMAÇÃO POSITIVA DAS LAJES DO PAVIMENTO COBERTURA (Eixo Y)  
ESCALA 1:50

PLANTA DE VIGOTAS PRÉ-MOLDADAS  
ESCALA 1:50

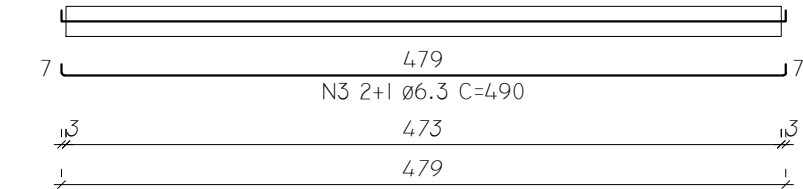
VPC1A (25 UNIDADES)  
(LC1)  
ESC 1:50



VPC2A (31 UNIDADES)  
(LC2)  
ESC 1:50



VPC2B (1 UNIDADES)  
(LC2)  
ESC 1:50

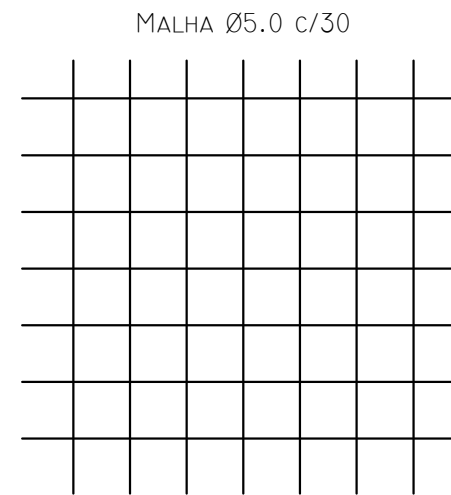





RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (MM)	QUANT	C.UNIT (CM)	C.TOTAL (CM)
25XVPC1A	CA50	1	6.3	75	418	31350
31XVPC2A	CA50	2	6.3	93	493	45849
VPC2B	CA50	3	6.3	3	490	1470

RESUMO DO AÇO			
AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	6.3	786.7	211.8
PESO TOTAL (KG)			
CA50		211.8	

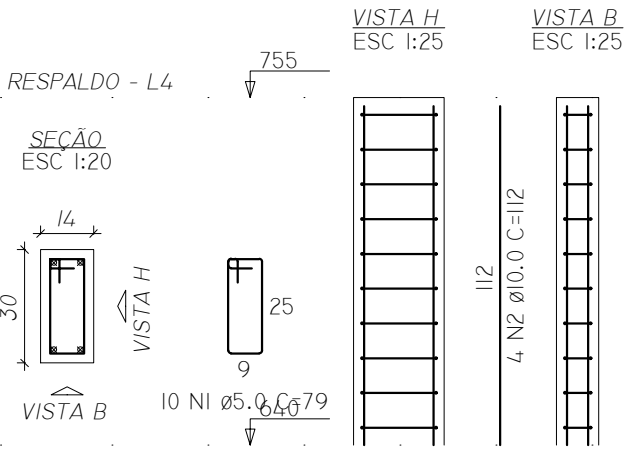
VOLUME DE CONCRETO (C-25) = 0.00 M³  
ÁREA DE FORMA = 0.00 M²

- NOTAS:
- 1 - MEDIDAS E ELEVÇÕES EM CENTÍMETROS.
  - 2 - PRAZOS DE DESFORMAS:
    - FACES LATERAIS: 7 DIAS.
    - FACES INFERIORES: 14 DIAS, (DEIXANDO ALGUMAS ESTACAS ENCUNHADAS).
    - FACES INFERIORES: 28 DIAS, (SEM PONTALETES).
    - PREVER RESCORA PARCIAL QUANDO NECESSÁRIO.
  - 3 - VOLUME DE CONCRETO : 4.36 M³ (Fck=25MPa)

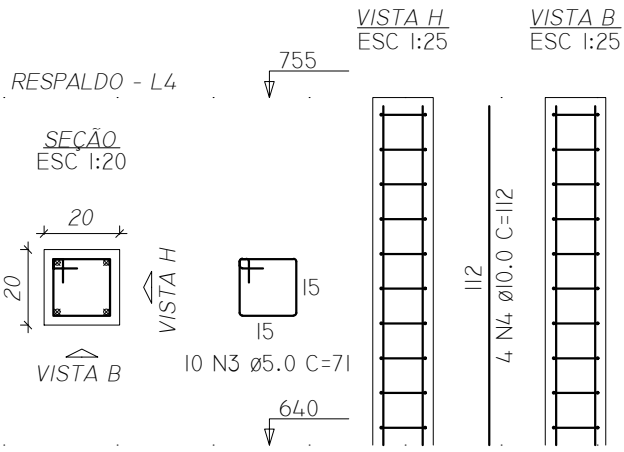


		AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)		
TÍTULO: PROJETO ESTRUTURAL EXECUTIVO				
LOCAL: RUA BALTAZAR SALDANHA, 1591 BAIRRO JARDIM CENTRO		MUNICÍPIO: PONTA PORÃ/ MS		
PROPRIETÁRIO:		AUTOR DO PROJETO:		
		<div>ELEMENTO Engenharia e Arquitetura CNPJ: 33.545.438/0001-15 CREA: 20196 / MS</div> <div> Resp Téc: Eng. Marcelia Lima CREA: 61634/D-MS Resp Téc: Arq. Vanessa Souza CAU: A229391-9</div>		
CONTEÚDO: LAJES COBERTURA DETALHAMENTO VIGOTAS PRÉ-MOLDADAS		FASE: EXECUTIVO		PRANCHAS Nº: EST-13/15
ESCALA: INDICADAS	DATA: ABRIL/2022	REVISÃO: 00		

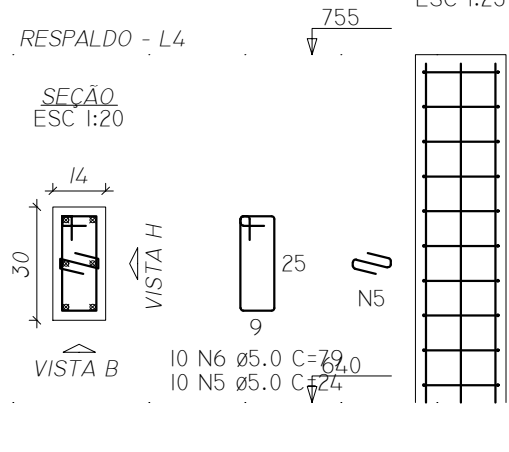
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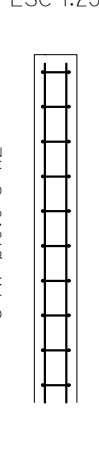
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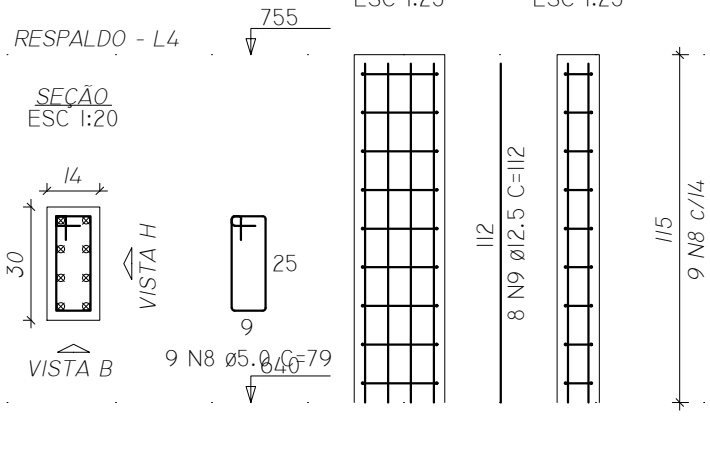
PI8



VISTA H ESC 1:25



P21



RELAÇÃO DO AÇO

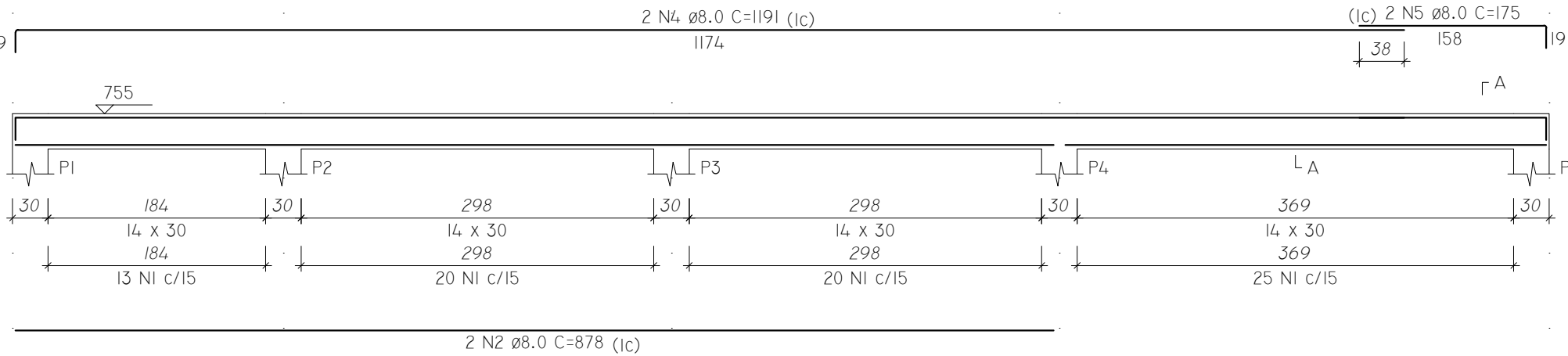
ELEMENTO	AÇO	N	DIAM (MM)	QUANT	C.UNIT (CM)	C.TOTAL (CM)
6xPI	CA60	1	5.0	60	79	4740
3xP9	CA50	2	10.0	24	112	2688
	CA60	3	5.0	30	71	2130
PI8	CA50	4	10.0	12	112	1344
	CA60	5	5.0	10	24	240
	CA60	6	5.0	10	79	790
	CA50	7	10.0	6	112	672
P21	CA60	8	5.0	9	79	711
	CA50	9	12.5	8	112	896

RESUMO DO AÇO

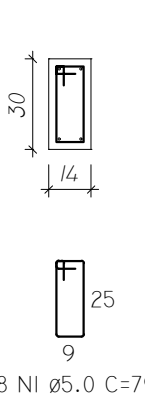
AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	10.0	47	31.9
CA60	12.5	9	9.5
	5.0	86.1	14.6
PESO TOTAL (KG)			
CA50	41.4		
CA60	14.6		

VOLUME DE CONCRETO (C-25) = 0.52 M³  
ÁREA DE FORMA = 10.86 M²

VR1  
ESC 1:50



SEÇÃO A-A  
ESC 1:25



RELAÇÃO DO AÇO

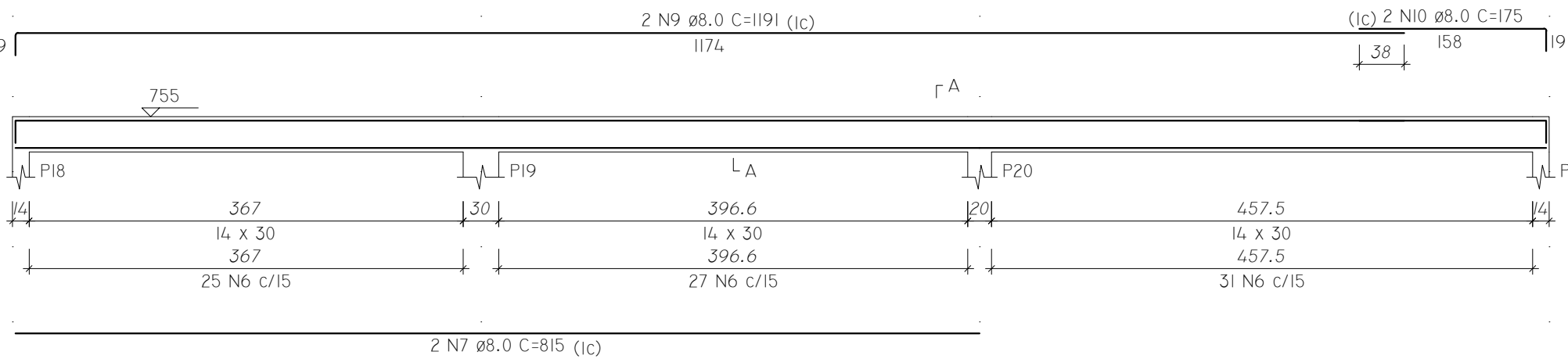
ELEMENTO	AÇO	N	DIAM (MM)	QUANT	C.UNIT (CM)	C.TOTAL (CM)
VR1	CA60	1	5.0	78	79	6162
	CA50	2	8.0	2	878	1756
	CA50	3	8.0	2	407	814
	CA50	4	8.0	2	1191	2382
	CA50	5	8.0	2	175	350
VR2	CA60	6	5.0	83	79	6557
	CA50	7	8.0	2	815	1630
	CA50	8	8.0	2	479	958
	CA50	9	8.0	2	1191	2382
	CA50	10	8.0	2	175	350
VR3	CA60	11	5.0	56	79	4424
	CA50	12	8.0	2	902	1804
	CA50	13	8.0	2	928	1856
VR4	CA60	14	5.0	56	79	4424
	CA50	15	8.0	2	902	1804
	CA50	16	8.0	2	928	1856

RESUMO DO AÇO

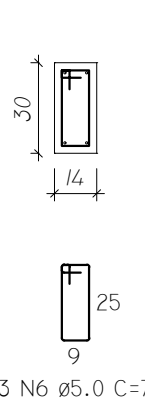
AÇO	DIAM (MM)	C.TOTAL (M)	PESO + 10% (KG)
CA50	8.0	179.4	77.9
CA60	5.0	215.7	36.6
PESO TOTAL (KG)			
CA50	77.9		
CA60	36.6		

VOLUME DE CONCRETO (C-25) = 1.70 M³  
ÁREA DE FORMA = 32.53 M²

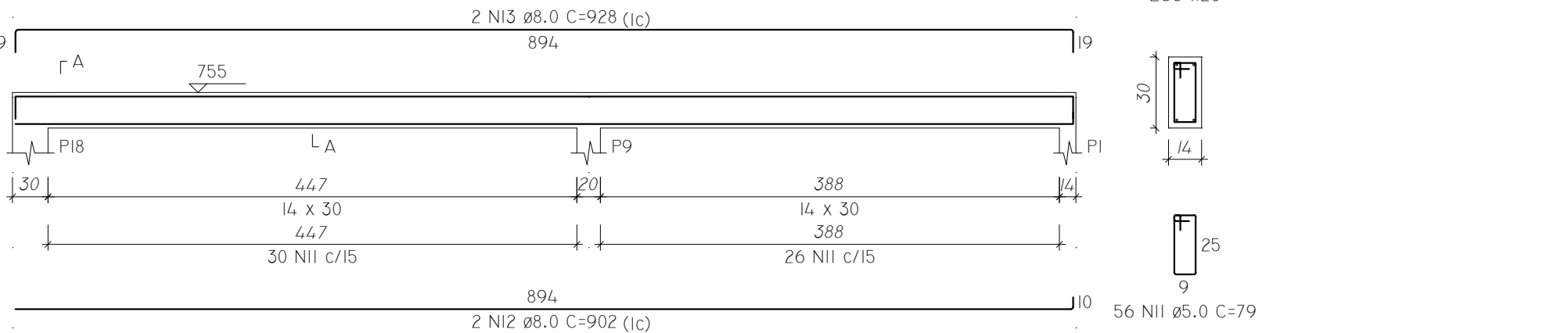
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ESC 1:50



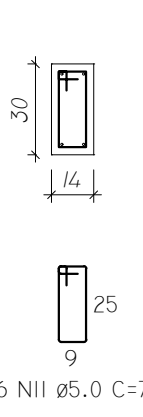
SEÇÃO A-A  
ESC 1:25



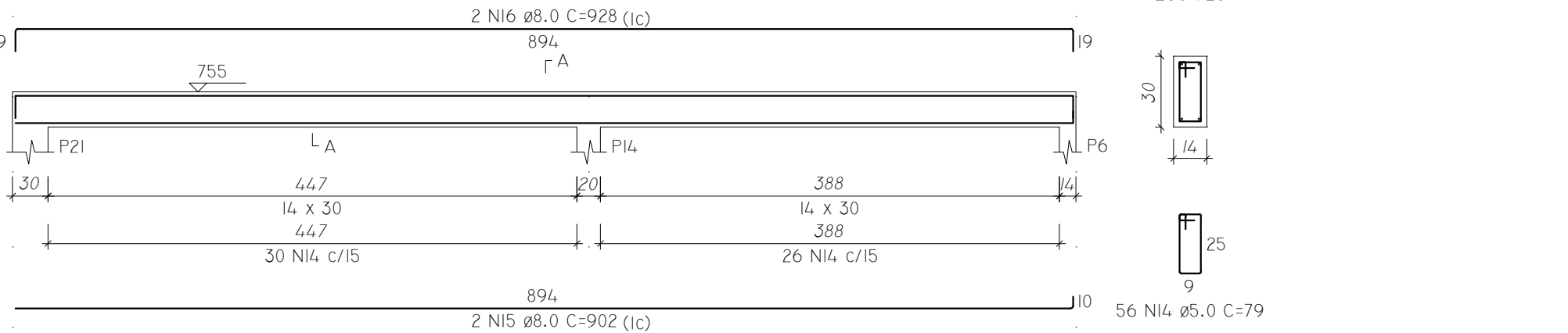
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ESC 1:50



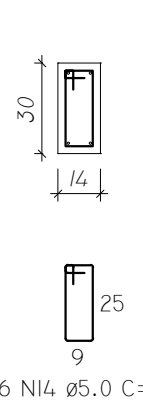
SEÇÃO A-A  
ESC 1:25




VR4  
ESC 1:50




SEÇÃO A-A  
ESC 1:25





AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS)



TÍTULO:

PROJETO ESTRUTURAL EXECUTIVO

LOCAL:

RUA BALTAZAR SALDANHA, 1591  
BAIRRO JARDIM CENTRO


MUNICÍPIO:

PONTA PORÃ/ MS

PROPRIETÁRIO:

União - Tribunal Regional Eleitoral de MS  
CNPJ: 03.883.929/0001-02  
Diogo Campos dos Anjos - Coordenador de Eng. TRE/MS  
CPF: 037.436.459-12

AUTOR DO PROJETO:

ELEMENTO Engenharia e Arquitetura  
CNPJ: 33.545.436/0001-15  
CREA: 20196 / MS  


Resp Téc. Eng. Marcella Lima  
CREA: 61634/D-MS  
Resp Téc. Arq. Vanessa Souza  
CAU: A229391-9

CONTEÚDO:

PILAR RESPALDO  
VIGAS RESPALDO

FASE:

EXECUTIVO

PRANCHA Nº:

EST-14/15

ESCALA:

INDICADAS

DATA:

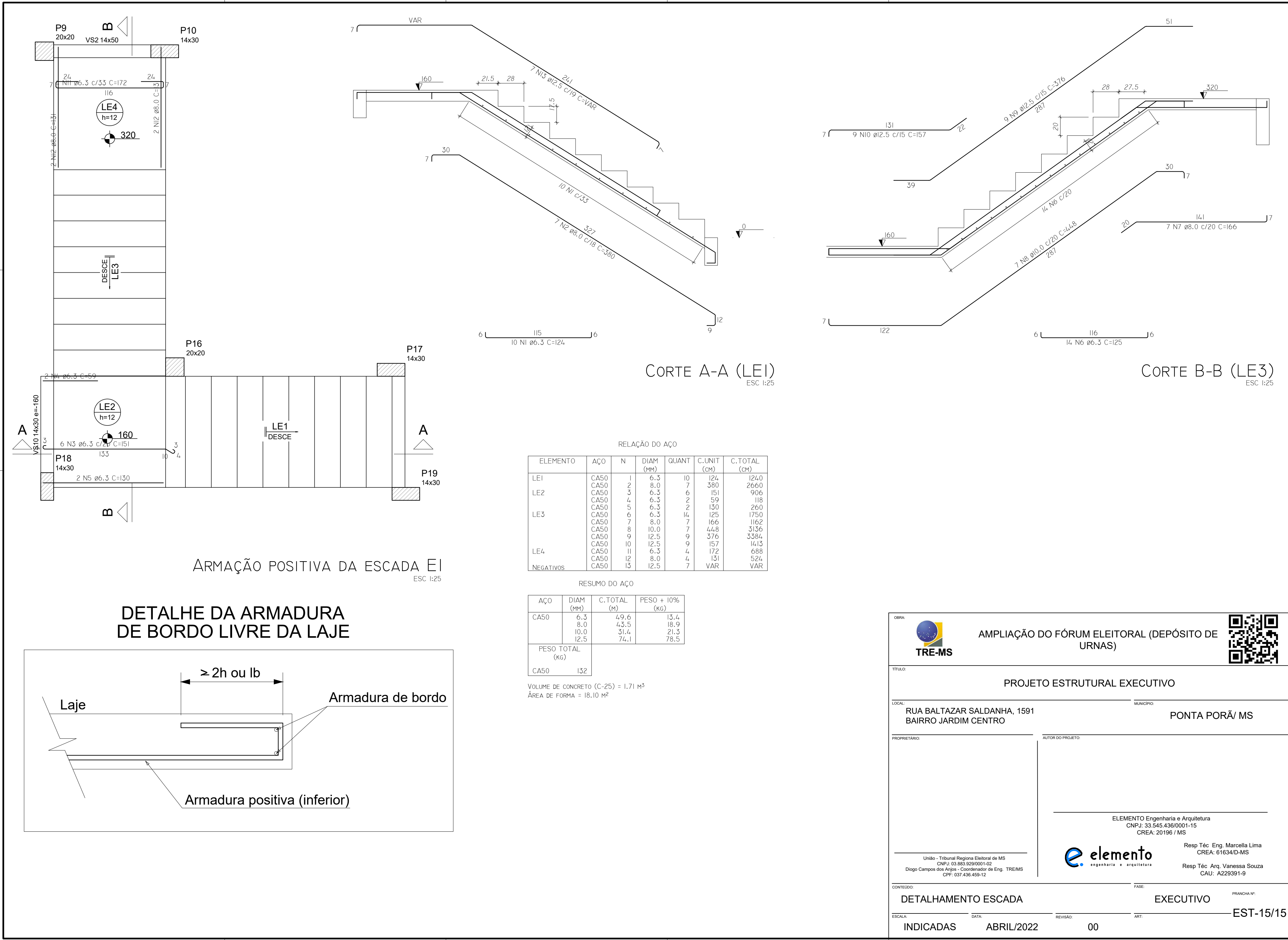
ABRIL/2022

REVISÃO:

00

ART:





OBRAS: 		AMPLIAÇÃO DO FÓRUM ELEITORAL (DEPÓSITO DE URNAS) 	
TÍTULO: PROJETO ESTRUTURAL EXECUTIVO			
LOCAL: RUA BALTAZAR SALDANHA, 1591 BAIRRO JARDIM CENTRO		MUNICÍPIO: PONTA PORÃ/ MS	
PROPRIETÁRIO:		AUTOR DO PROJETO:	
União - Tribunal Regional Eleitoral de MS CNPJ: 03.883.929/0001-02 Diogo Campos dos Anjos - Coordenador de Eng. TRE/MS CPF: 037.436.459-12		ELEMENTO Engenharia e Arquitetura CNPJ: 33.545.436/0001-15 CREA: 20196 / MS  Resp Téc. Eng. Marcella Lima CREA: 61634/D-MS Resp Téc. Arq. Vanessa Souza CAU: A229391-9	
CONTEÚDO: DETALHAMENTO ESCADA		FASE: EXECUTIVO	
ESCALA: INDICADAS		PRANCHA Nº: EST-15/15	
DATA: ABRIL/2022		REVISÃO: 00	