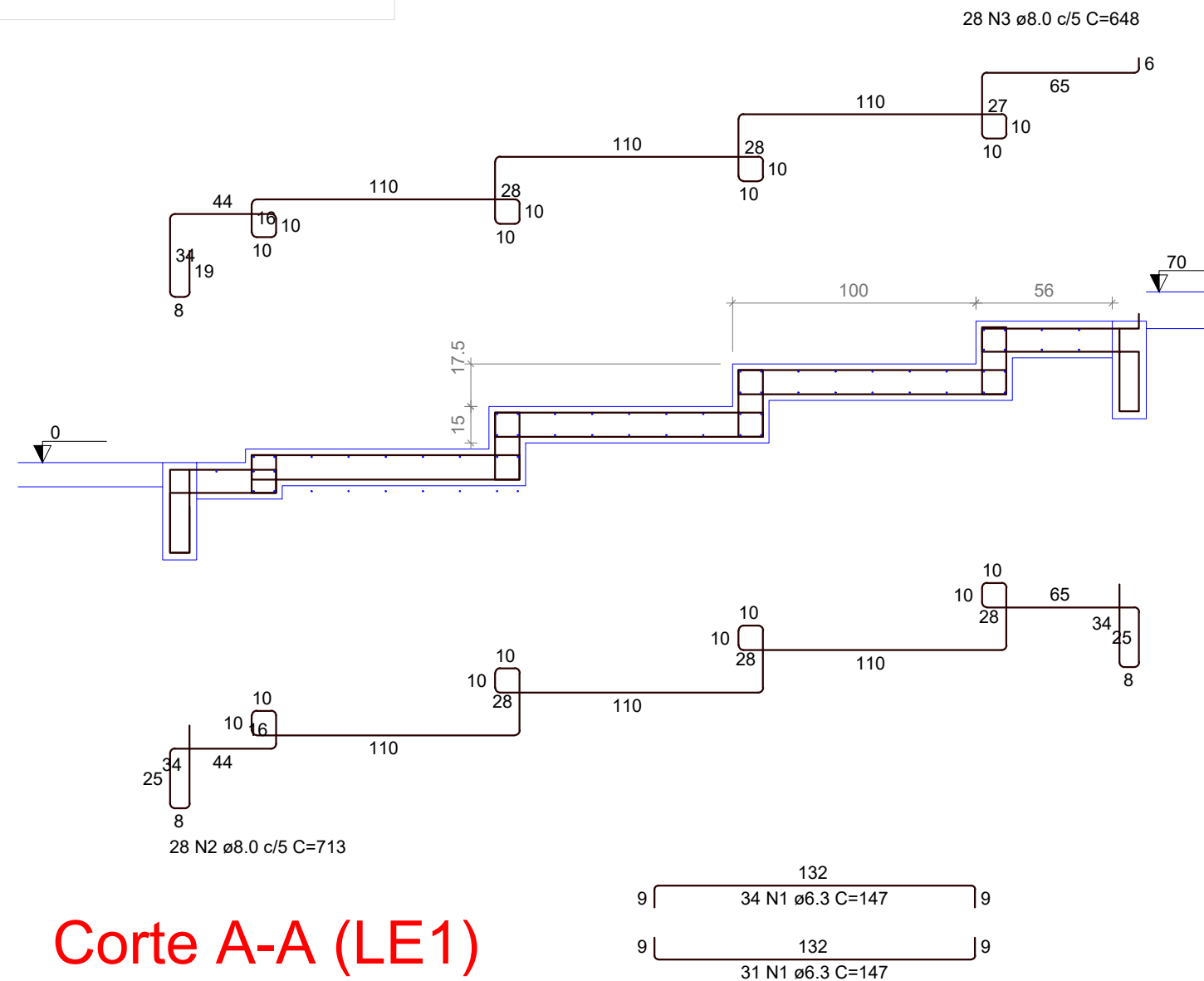
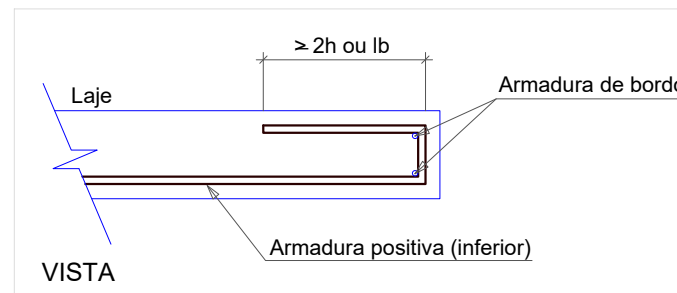
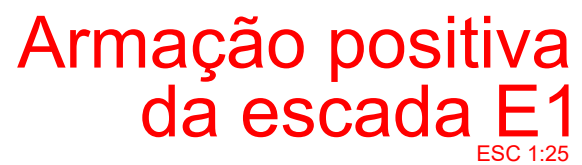




Corte A-A (LE1)

ESC 1:25



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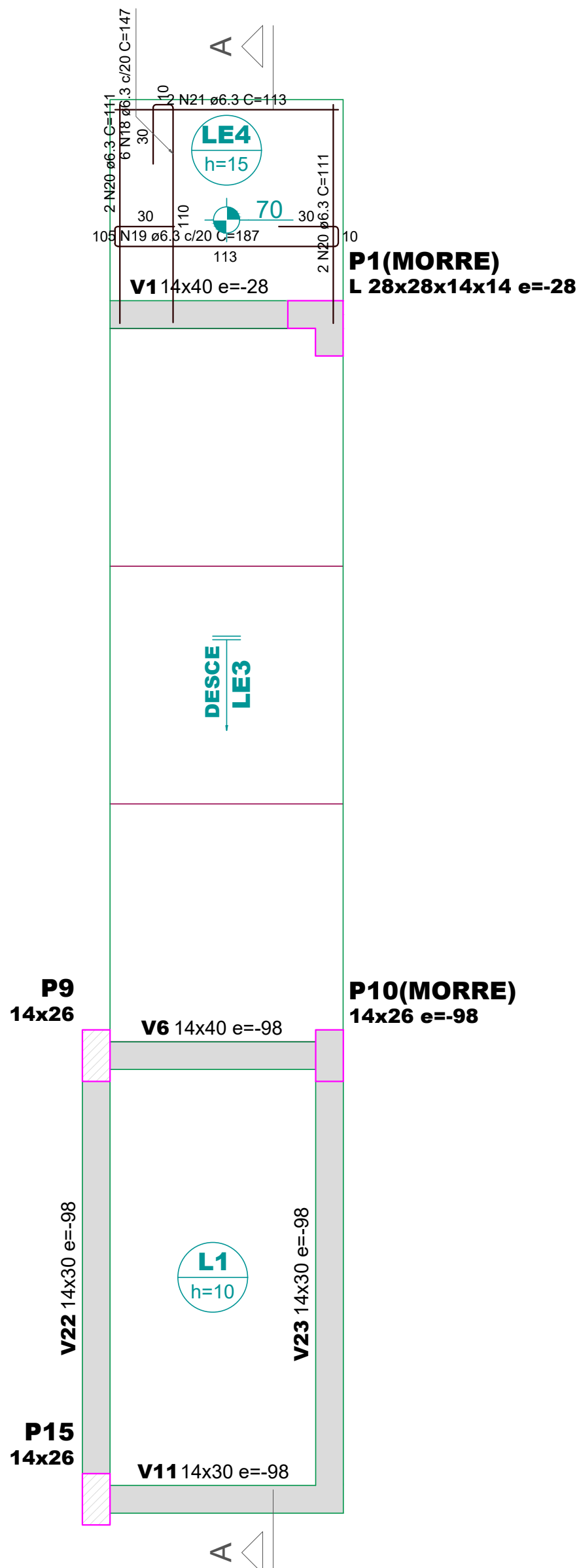
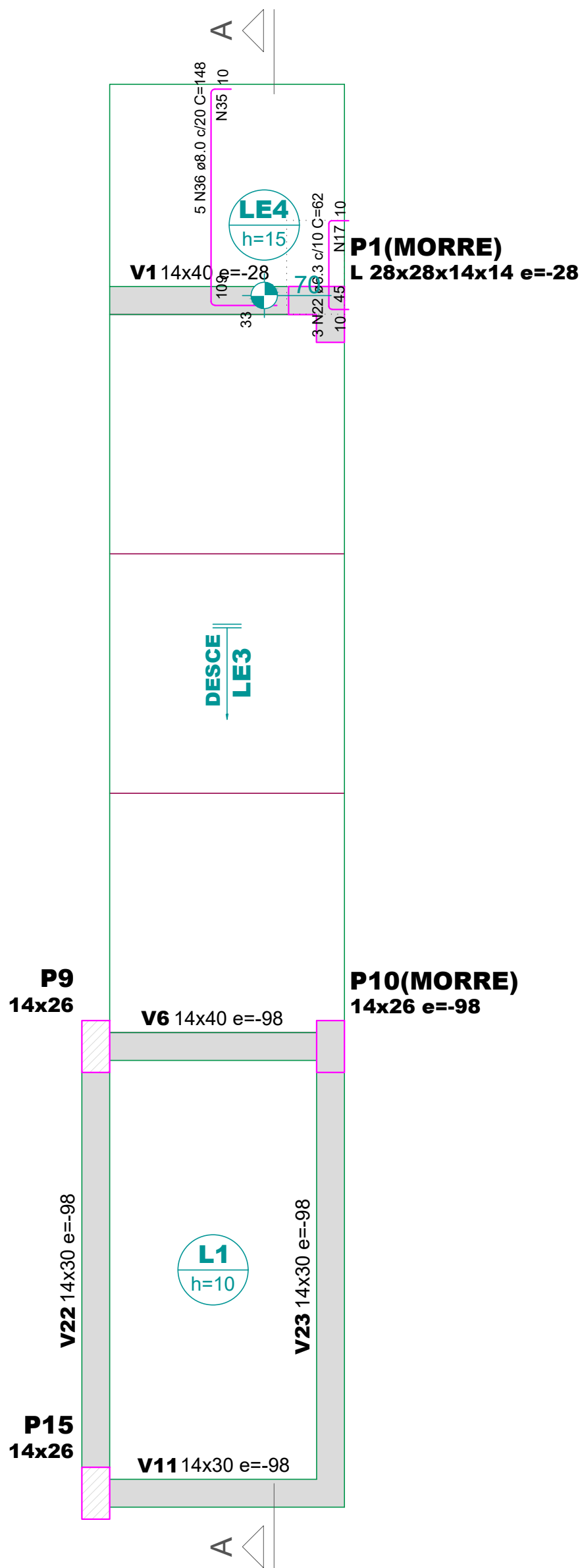
Endereço:

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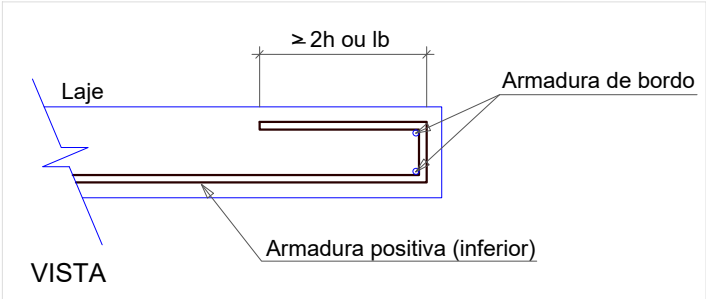
Escalas: indicada

Folha: A3

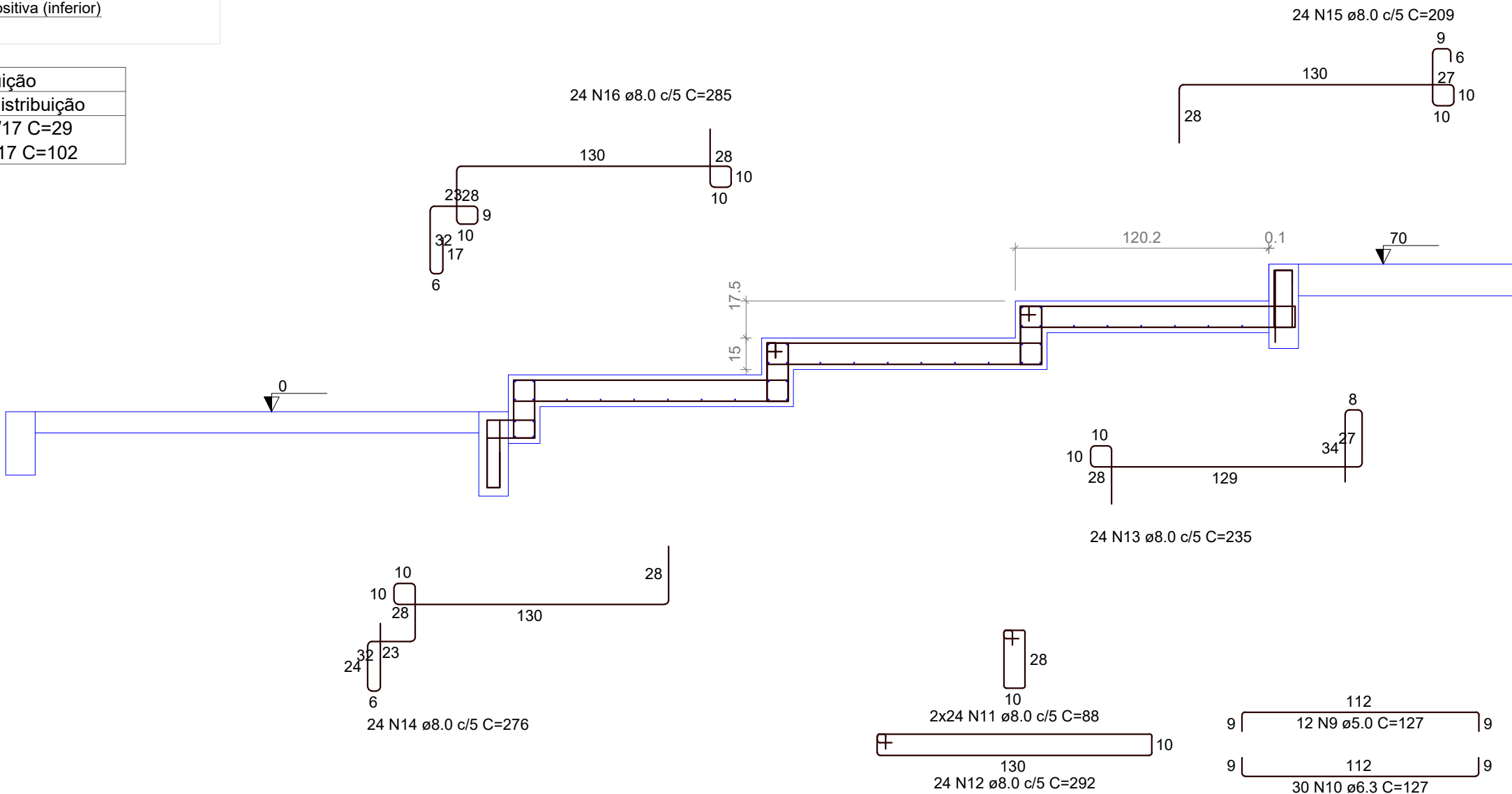
Data: 10/06/2022



DETALHE DA ARMADURA
DE BORDO LIVRE DA LAJE



Armaduras de distribuição	
Armadura	Armadura de distribuição
N22	3 N17 ø5.0 c/17 C=29
N36	7 N35 ø5.0 c/17 C=102



RESUMO DO AÇO - ESCADAS E1 - E2 - E3

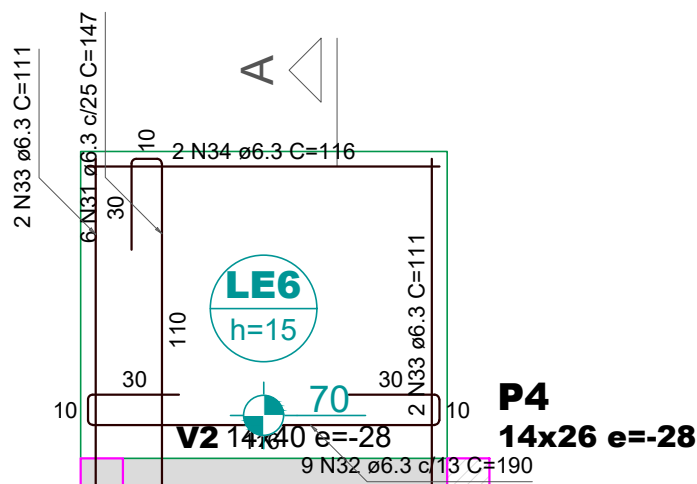
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	6.3	617.8	57	12 m	166.3
	8.0	742	69	12 m	322.1
CA60	5.0	39	4	12 m	6.6
PESO TOTAL (kg)		Volume de concreto (C-25) = 2.92 m³			
		Área de forma = 27.44 m²			
CA50	488.4				
CA60	6.6				

Corte A-A (LE3)
ESC 1:25



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P3(MORRE)
14x26
e=-28

DESCE
LE5

V7 14x40 e=-98

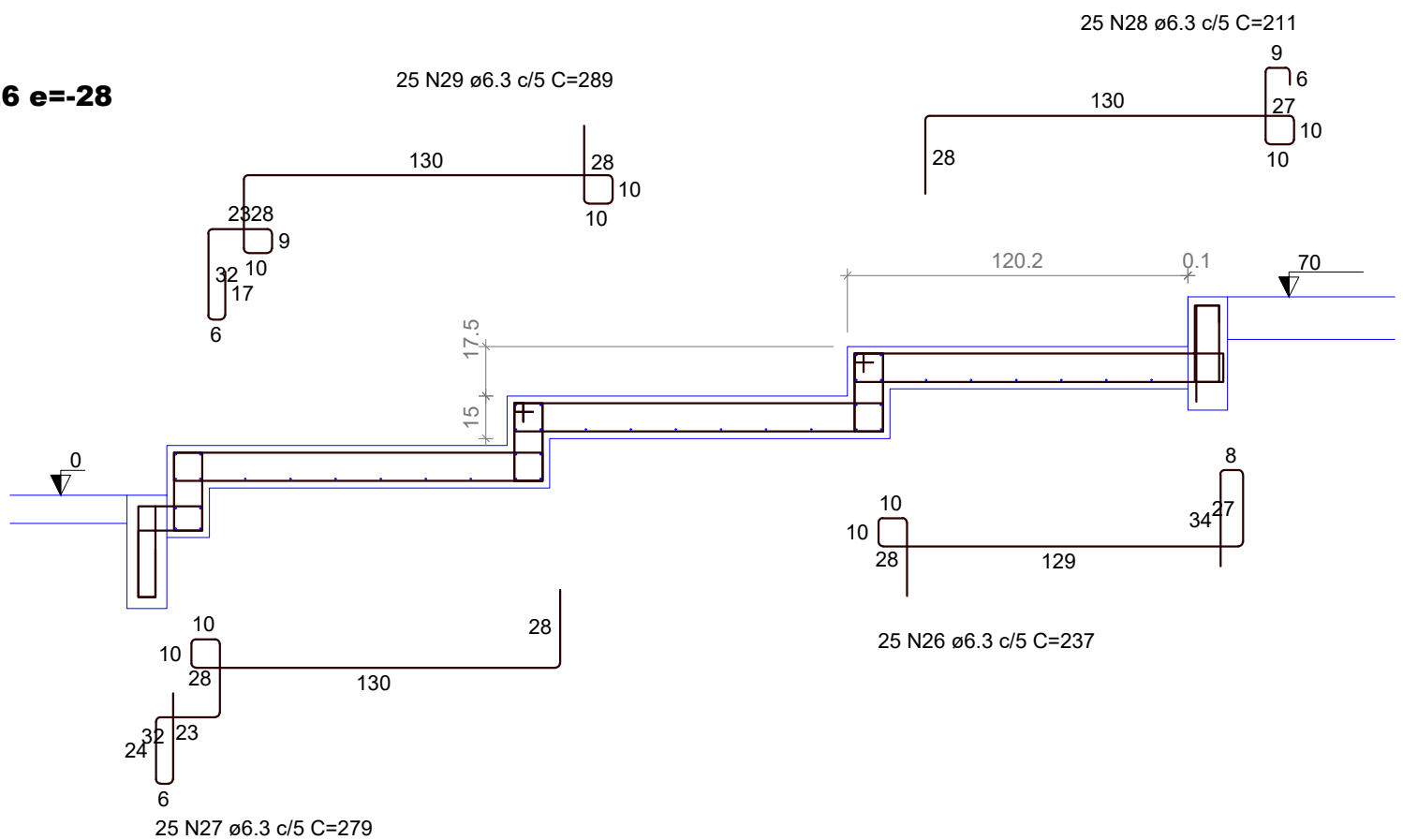
P12(MORRE)
14x26
e=-98

L2
h=10

V12 14x30 e=-98

P13
14x26

P17
14x26

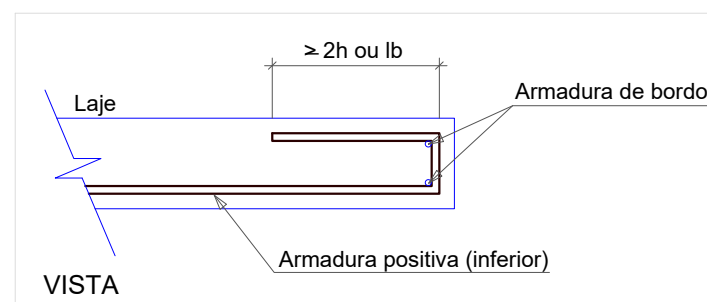


116
9 12 N23 ϕ 5.0 C=131 9
9 116 9
30 N30 ϕ 6.3 C=131

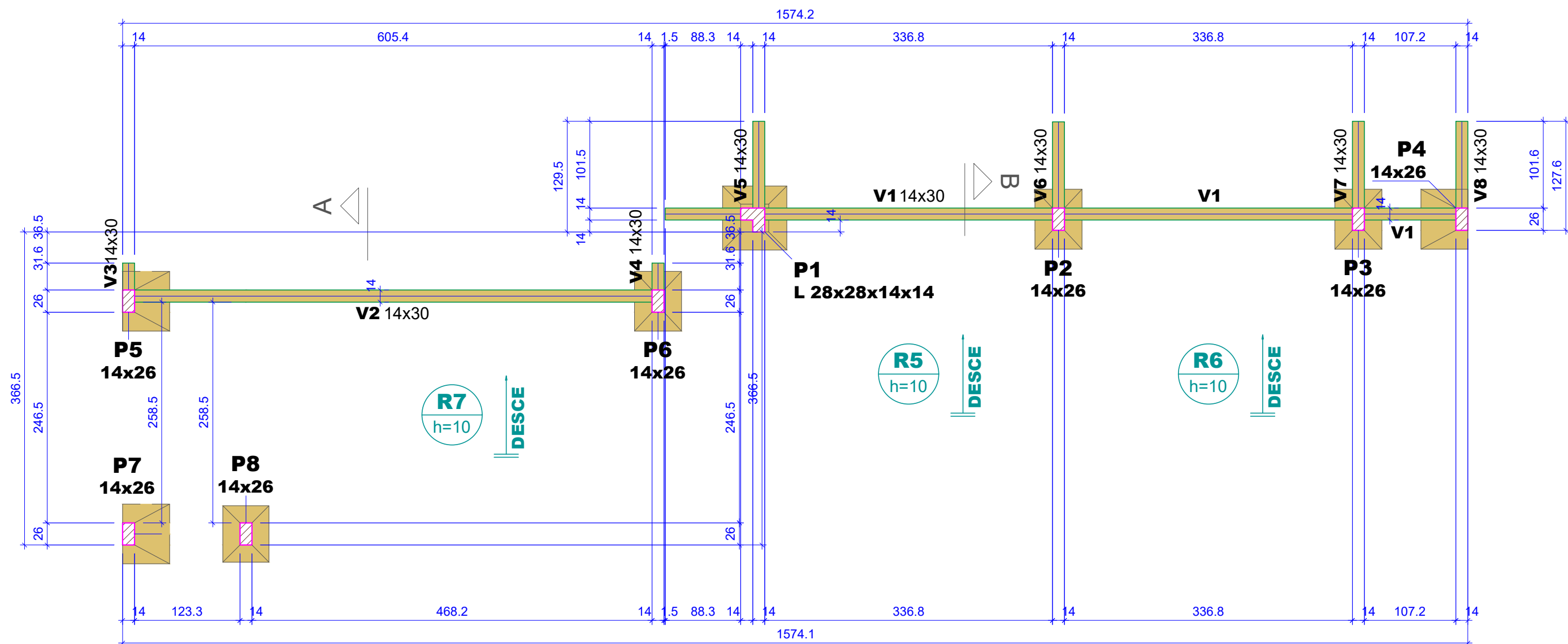
28
10
2x25 N24 ϕ 6.3 c/5 C=88
130
25 N25 ϕ 6.3 c/5 C=292

Corte A-A (LE5)
ESC 1:25

DETALHE DA ARMADURA
DE BORDO LIVRE DA LAJE



**Armação positiva
da escada E3**
ESC 1:25



Forma do pavimento Subsolo (Nível -190)

escala 1:50

Forma - Vigas Subsolo			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x30	0	-190
V2	14x30	0	-190
V3	14x30	0	-190
V4	14x30	0	-190
V5	14x30	0	-190
V6	14x30	0	-190
V7	14x30	0	-190
V8	14x30	0	-190

Forma - Pilares Subsolo			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	L 28x28x14x14	0	-190
P2	14x26	0	-190
P3	14x26	0	-190
P4	14x26	0	-190
P5	14x26	0	-190
P6	14x26	0	-190
P7	14x26	0	-190
P8	14x26	0	-190

Legenda dos pilares	
	Pilar que morre
	Pilar que passa

Legenda das vigas e paredes	
	Viga
	Viga inclinada

Legenda das lajes	
	Laje
	Laje com elevação

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



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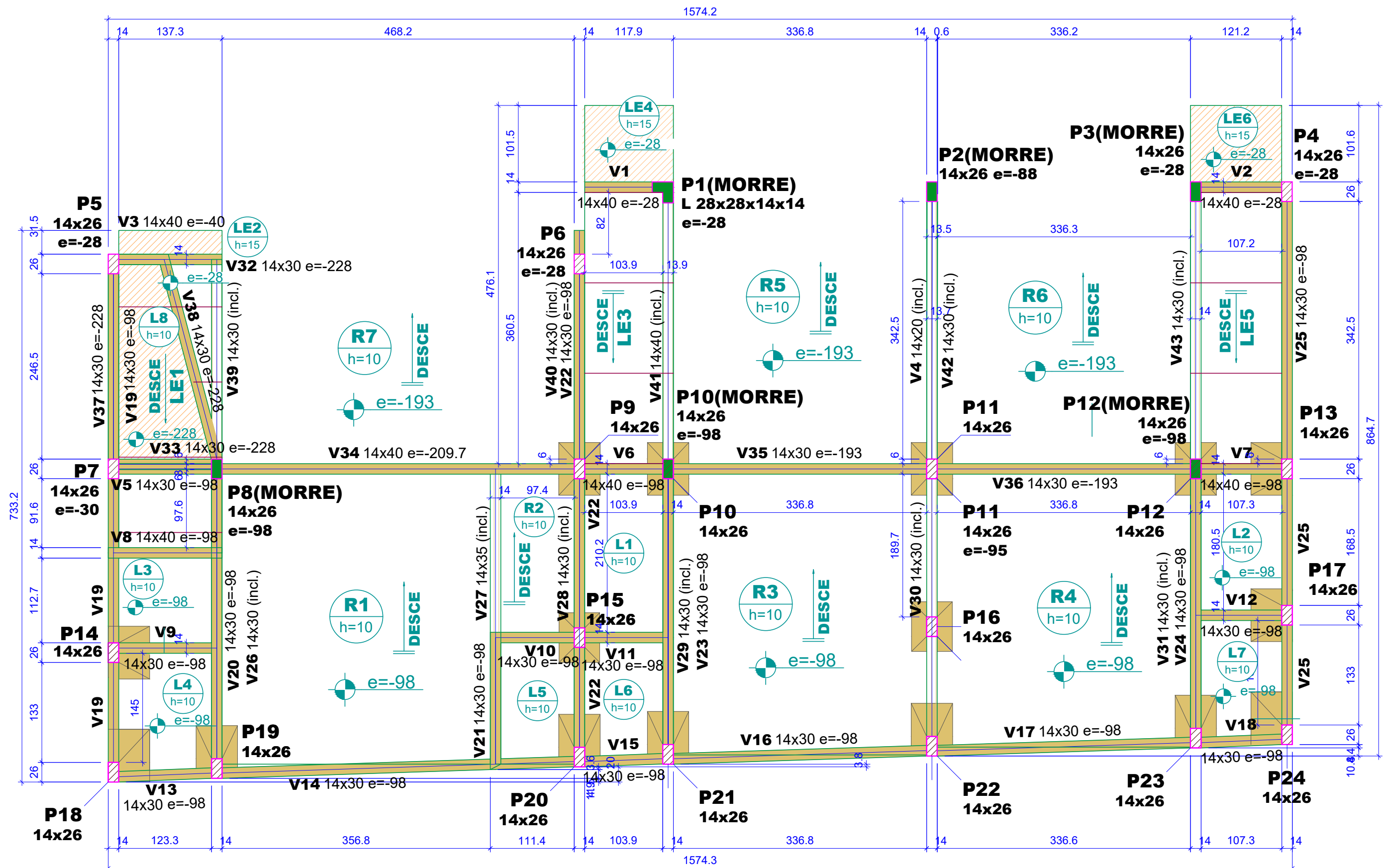
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Escalas: indicada

Folha: A3

Data: 10/06/2022



Forma do pavimento Térreo (Nível 98)

escala 1:50

Legenda dos pilares		Legenda das vigas e paredes		Legenda das lajes	
	Pilar que morre		Viga		Laje
	Pilar que passa		Viga inclinada		Laje com elevação



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Escalas: indicada

Folha: A3

Data: 10/06/2022

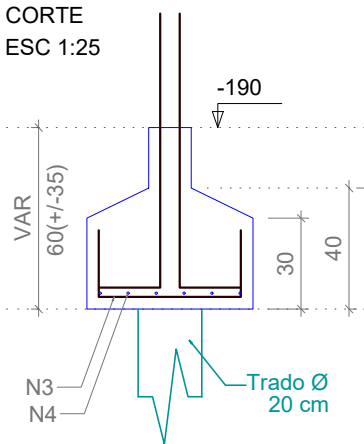
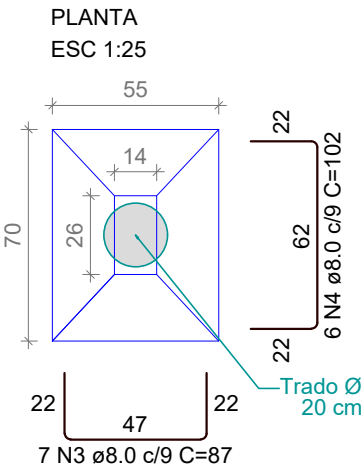
Forma - Vigas Térreo			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x40	-28	70
V2	14x40	-28	70
V3	14x40	-40	58
V4	14x20	7 / -88	105 / 10
V5	14x30	-98	0
V6	14x40	-98	0
V7	14x40	-98	0
V8	14x40	-98	0
V9	14x30	-98	0
V10	14x30	-98	0
V11	14x30	-98	0
V12	14x30	-98	0
V13	14x30	-98	0
V14	14x30	-98	0
V15	14x30	-98	0
V16	14x30	-98	0
V17	14x30	-98	0
V18	14x30	-98	0
V19	14x30	-98	0
V20	14x30	-98	0
V21	14x30	-98	0
V22	14x30	-98	0
V23	14x30	-98	0
V24	14x30	-98	0
V25	14x30	-98	0
V26	14x30	-98 / -204.7	0 / -106.7
V27	14x35	-98 / -209.7	0 / -111.7
V28	14x30	-98 / -204.7	0 / -106.7
V29	14x30	-98 / -188	0 / -90
V30	14x30	-98 / -188	0 / -90
V31	14x30	-98 / -188	0 / -90
V32	14x30	-228	-130
V33	14x30	-228	-130
V34	14x40	-209.7	-111.7
V35	14x30	-193	-95
V36	14x30	-193	-95
V37	14x30	-228	-130
V38	14x30	-228	-130
V39	14x30	-209.7 / -288	-111.7 / -190
V40	14x30	-209.7 / -278	-111.7 / -180
V41	14x40	-193 / -283	-95 / -185
V42	14x30	-193 / -283	-95 / -185
V43	14x30	-193 / -283	-95 / -185

Forma - Pilares Térreo			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	L 28x28x14x14	-28	70
P2	14x26	-88	10
P3	14x26	-28	70
P4	14x26	-28	70
P5	14x26	-28	70
P6	14x26	-28	70
P7	14x26	-30	68
P8	14x26	-98	0
P9	14x26	0	98
P10	14x26	-98	0
P11	14x26	-95	3
P12	14x26	-98	0
P13	14x26	0	98
P14	14x26	0	98
P15	14x26	0	98
P16	14x26	0	98
P17	14x26	0	98
P18	14x26	0	98
P19	14x26	0	98
P20	14x26	0	98
P21	14x26	0	98
P22	14x26	0	98
P23	14x26	0	98
P24	14x26	0	98

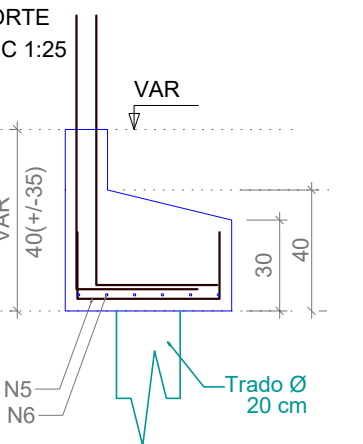
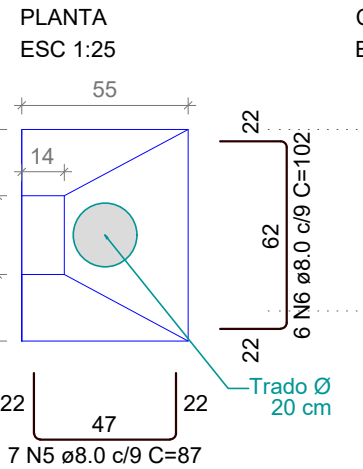
Forma - Lajes Térreo								
Dados						Sobrecarga (kgf/m²)		
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Maciça	10	-98	0	250	154	150	-
L2	Maciça	10	-98	0	250	154	150	-
L3	Maciça	10	-98	0	250	154	150	-
L4	Maciça	10	-98	0	250	154	150	-
L5	Maciça	10	-98	0	250	154	150	-
L6	Maciça	10	-98	0	250	154	150	-
L7	Maciça	10	-98	0	250	154	150	-
L8	Maciça	10	-228	-130	250	154	300	-
LE1	Maciça	15	0	98	609	128	250	-
LE2	Maciça	15	-28	70	375	154	250	-
LE3	Maciça	15	0	98	611	125	250	-
LE4	Maciça	15	-28	70	375	154	250	-
LE5	Maciça	15	0	98	611	125	250	-
LE6	Maciça	15	-28	70	375	154	250	-
R1	Maciça	10	-98	0	257	127	300	-
R2	Maciça	10	-98	0	257	127	300	-
R3	Maciça	10	-98	0	258	127	300	-
R4	Maciça	10	-98	0	258	127	300	-
R5	Maciça	10	-193	-95	258	127	300	-
R6	Maciça	10	-193	-95	258	127	300	-
R7	Maciça	10	-193	-95	264	130	300	-

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

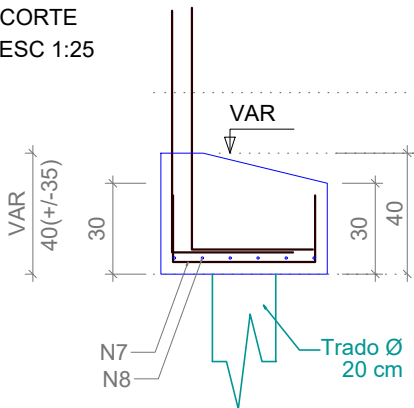
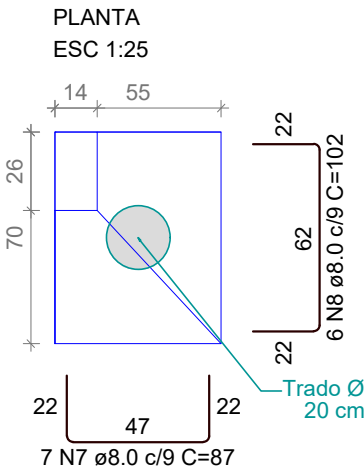
SAPATA PADRÃO - PILAR CENTRO



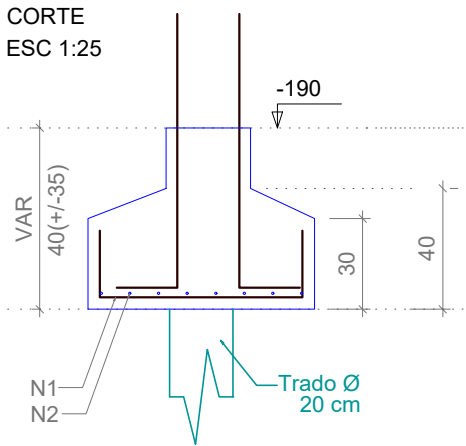
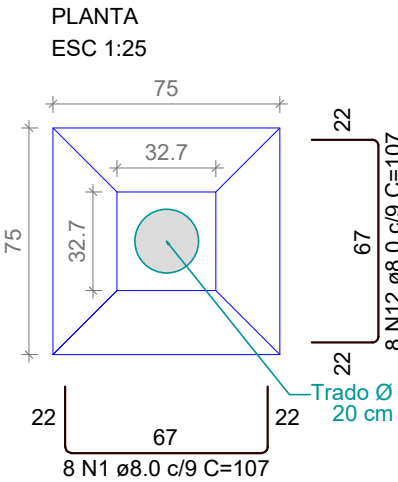
SAPATA PADRÃO - PILAR DE 1 DIVISA



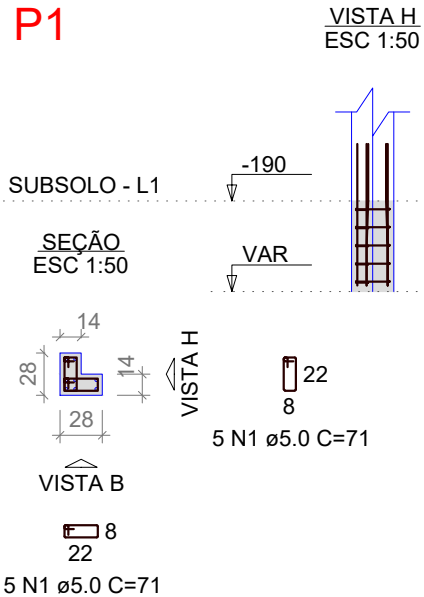
SAPATA PADRÃO - PILAR DE CANTO



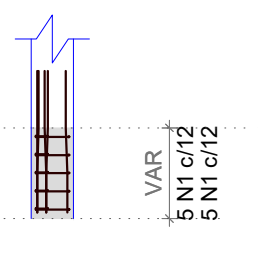
S1



P1



VISTA B ESC 1:50



Solo com capacidade de suporte > 3.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1700.00 kgf/m³



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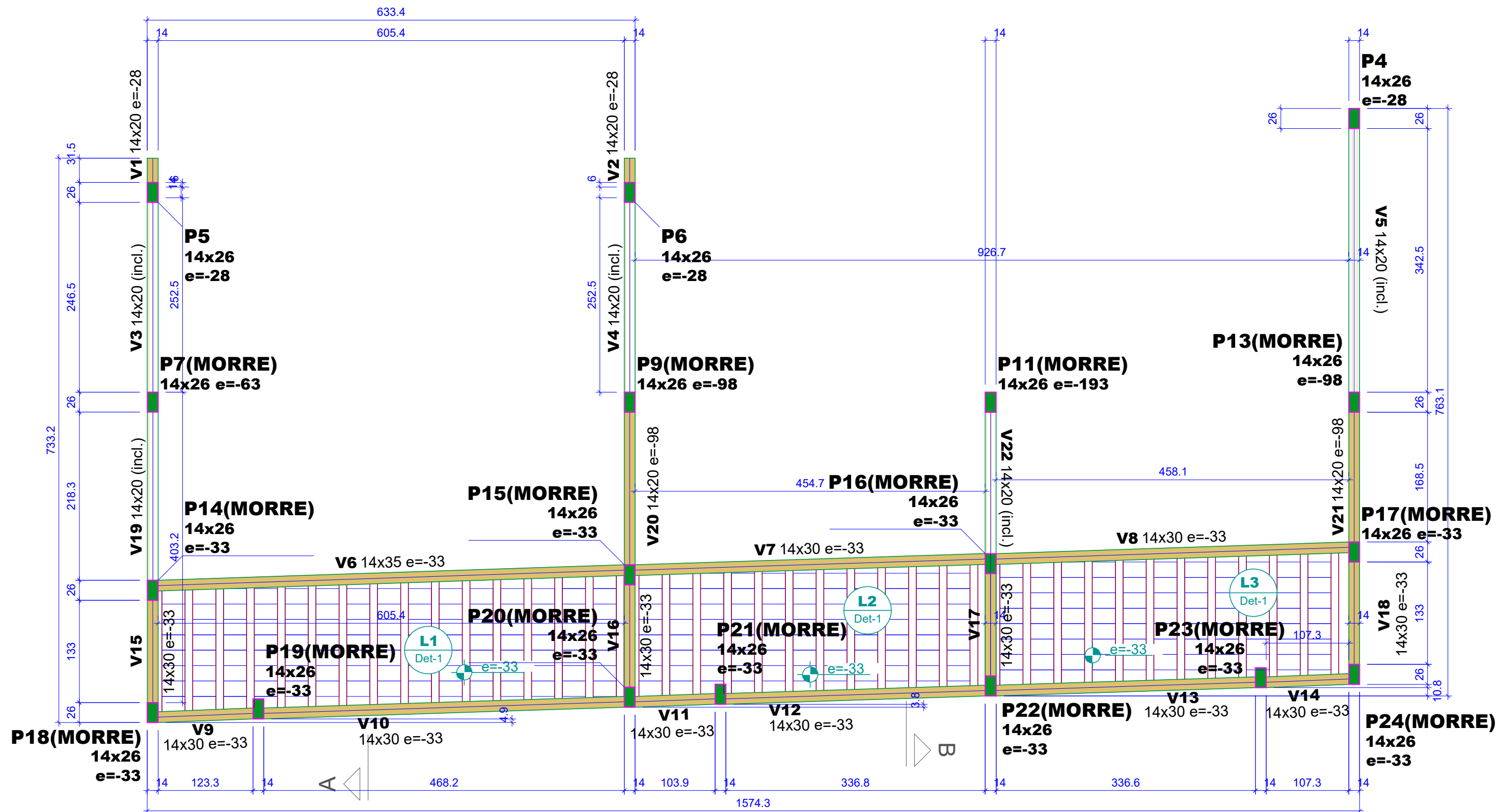
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Forma do pavimento Topo (Nível 298)

escala 1:50



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Velha/Blumenau/SC

Escalas: indicada

Folha: A3

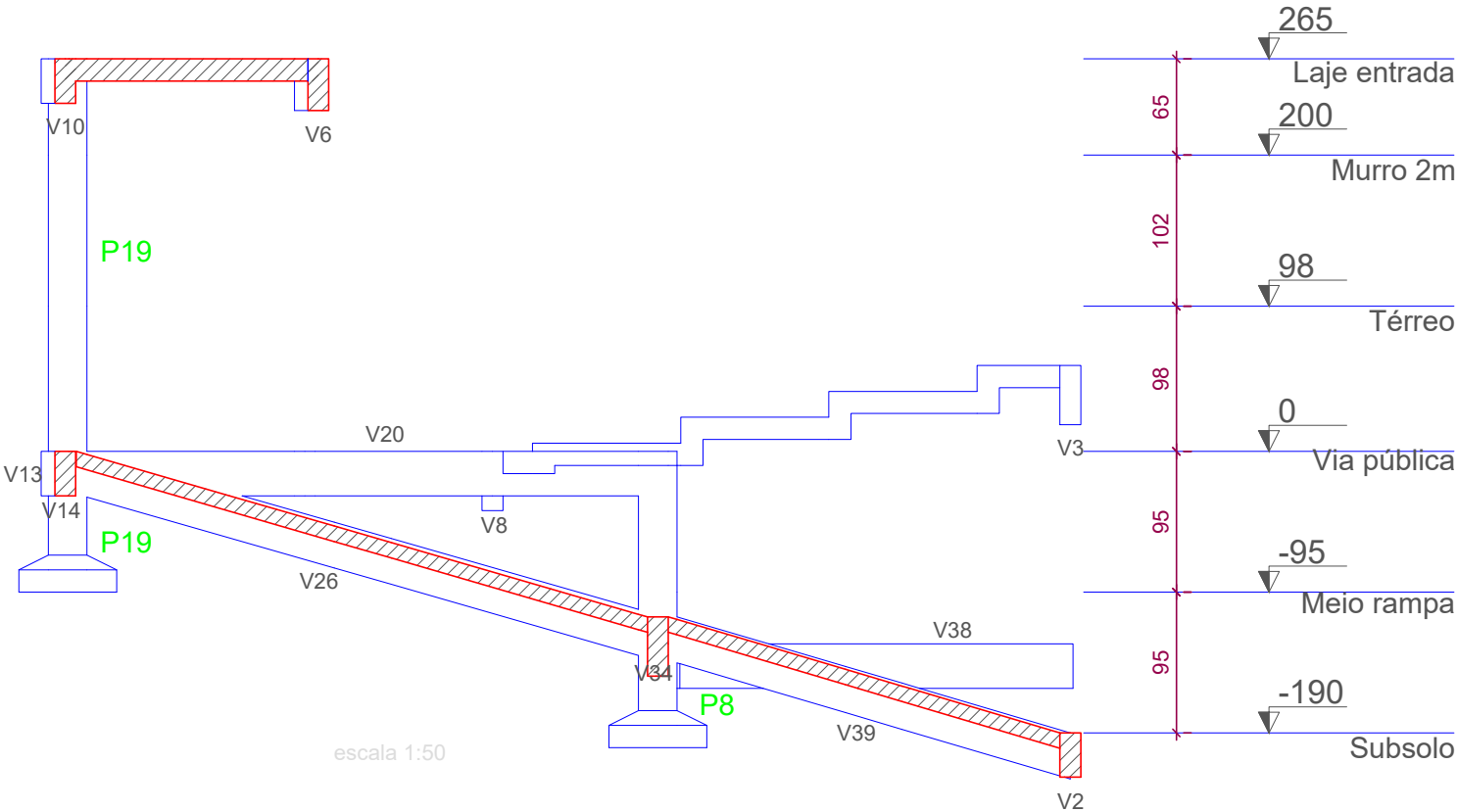
Data: 10/06/2022

Forma - Lajes Topo								
Dados						Sobrecarga (kgf/m²)		
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Pré-moldada	15	-33	265	323	182	100	-
L2	Pré-moldada	15	-33	265	323	182	100	-
L3	Pré-moldada	15	-33	265	323	182	100	-

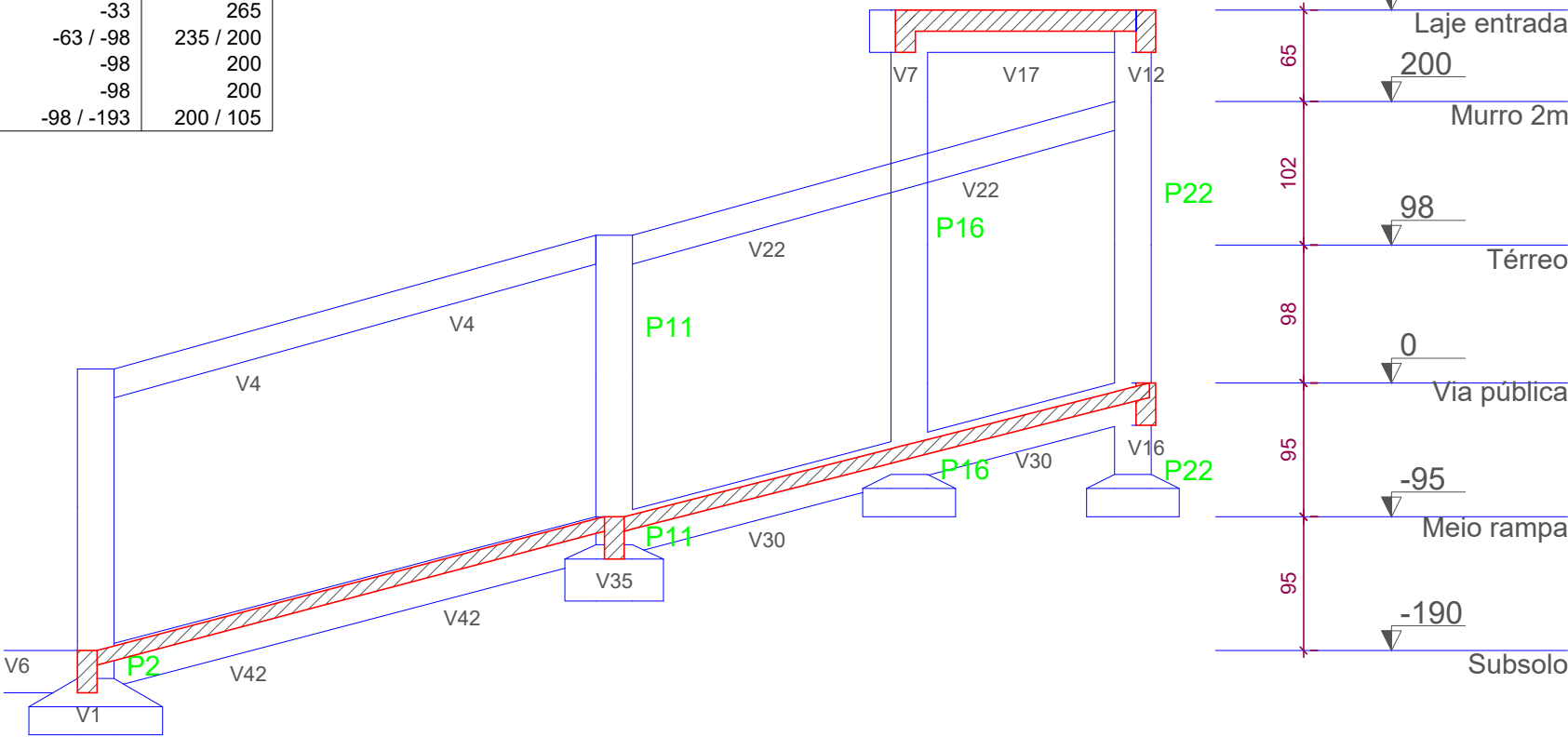
Blocos de enchimento Laje Topo						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1	Lajota cerâmica	B10/30/20	10	30	20	273

Forma - Vigas Topo			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
G1	14x30	-28	270
V1	14x20	-28	270
V2	14x20	-28	270
V3	14x20	-28 / -63	270 / 235
V4	14x20	-28 / -98	270 / 200
V5	14x20	-28 / -98	270 / 200
V6	14x35	-33	265
V7	14x30	-33	265
V8	14x30	-33	265
V9	14x30	-33	265
V10	14x30	-33	265
V11	14x30	-33	265
V12	14x30	-33	265
V13	14x30	-33	265
V14	14x30	-33	265
V15	14x30	-33	265
V16	14x30	-33	265
V17	14x30	-33	265
V18	14x30	-33	265
V19	14x20	-63 / -98	235 / 200
V20	14x20	-98	200
V21	14x20	-98	200
V22	14x20	-98 / -193	200 / 105

Forma - Pilares Topo			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P4	14x26	-28	270
P5	14x26	-28	270
P6	14x26	-28	270
P7	14x26	-63	235
P9	14x26	-98	200
P11	14x26	-193	105
P13	14x26	-98	200
P14	14x26	-33	265
P15	14x26	-33	265
P16	14x26	-33	265
P17	14x26	-33	265
P18	14x26	-33	265
P19	14x26	-33	265
P20	14x26	-33	265
P21	14x26	-33	265
P22	14x26	-33	265
P23	14x26	-33	265
P24	14x26	-33	265



Corte A-A
escala 1:50



Corte B-B
escala 1:50

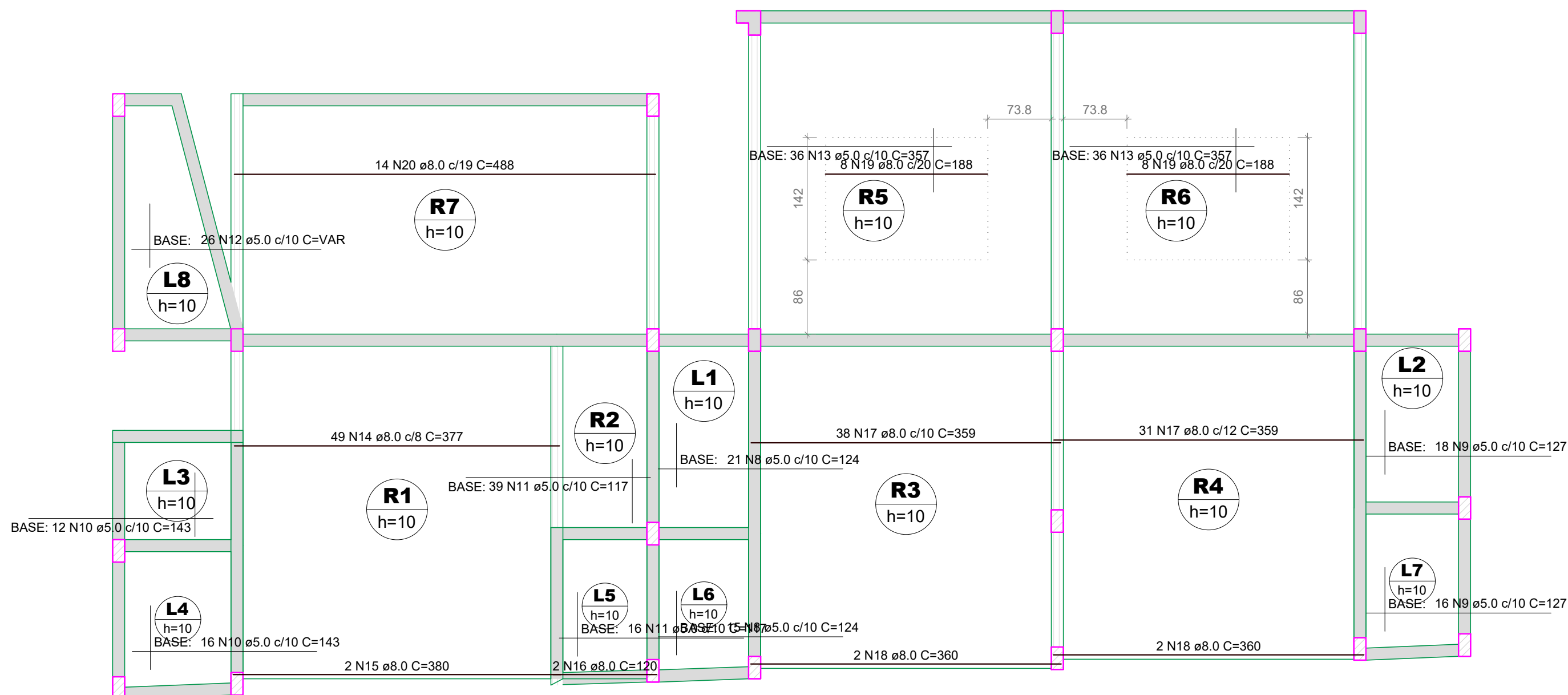


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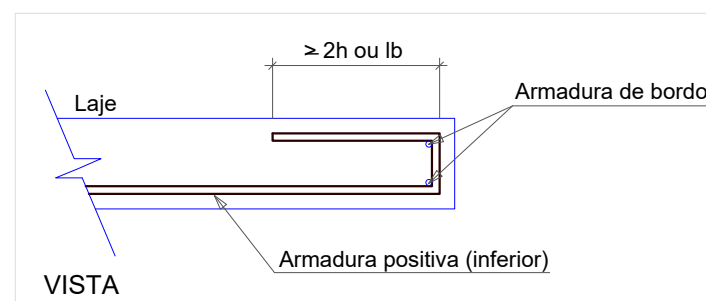
Endereço:
Rua Henrique Michels
Velha/Blumenau/SC



Armação positiva das lajes do pavimento Térreo (Eixo X)

escala 1:50

DETALHE DA ARMADURA DE BORDO LIVRE DA LAJE



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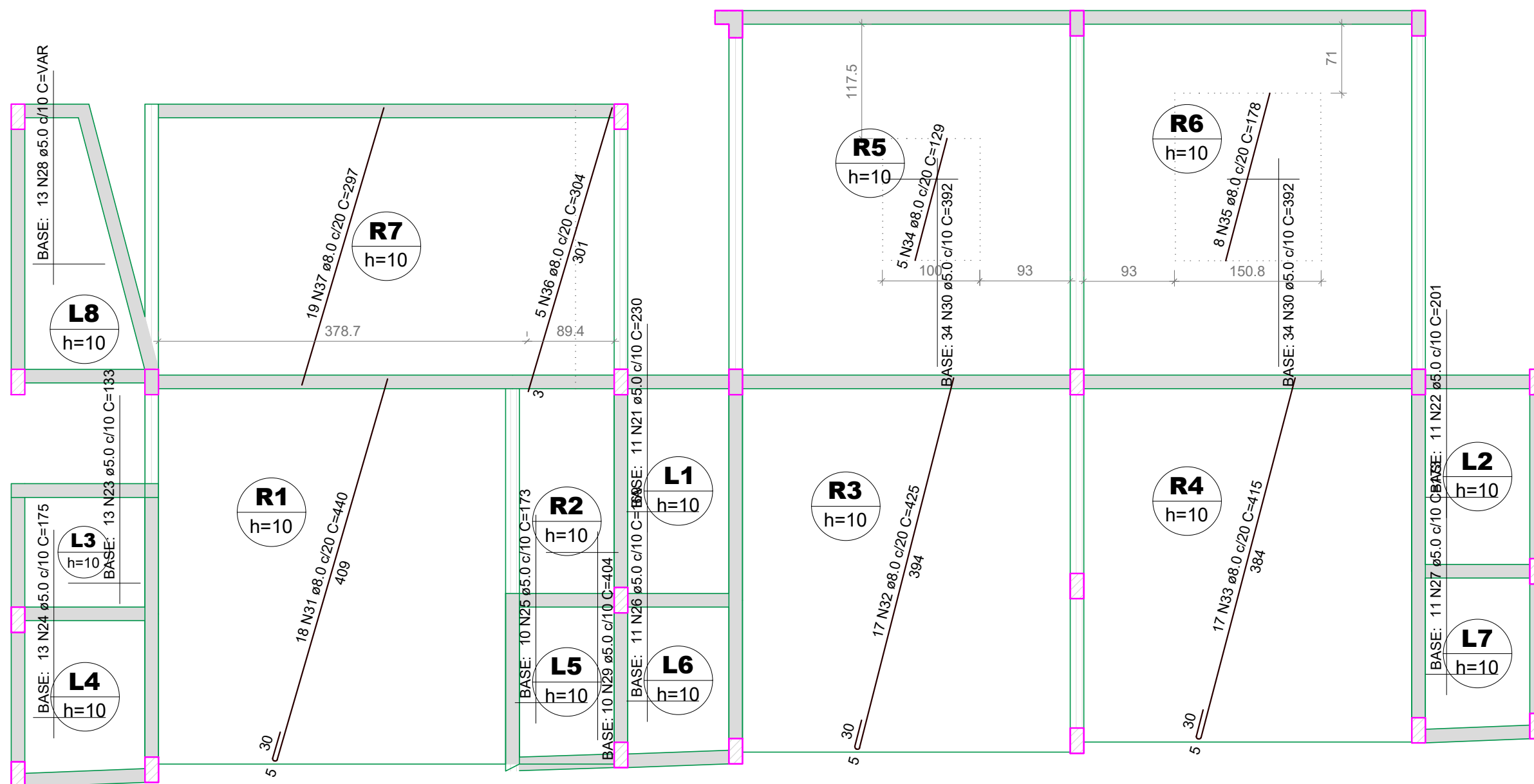
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Endereço:
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Velha/Blumenau/SC

Escala: indicada

Folha: A3

Data: 10/06/2022



Armação positiva das lajes do pavimento Térreo (Eixo Y)

escala 1:50

RESUMO DO AÇO - LAJES TÉRREO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	8.0	872.1	80	12 m	378.5
CA60	5.0	962.5	89	12 m	163.2
PESO TOTAL (kg)					
CA50	383.8				
CA60	163.2				

Volume de concreto (C-25) = 9.62 m³

Área de forma = 97.40 m²



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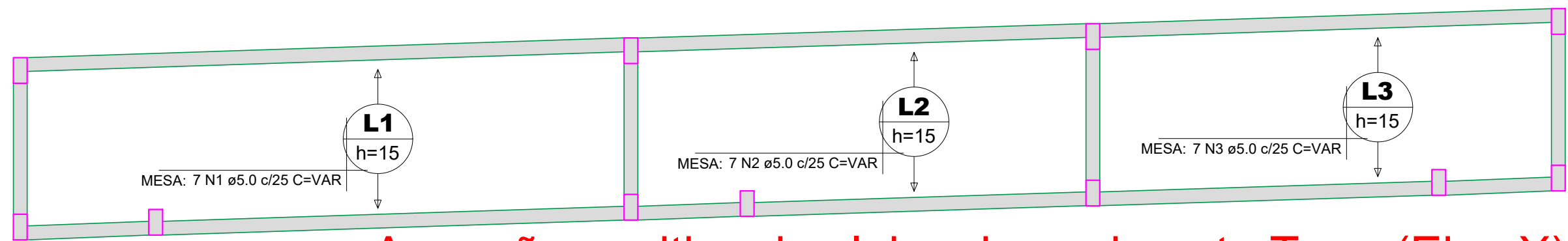
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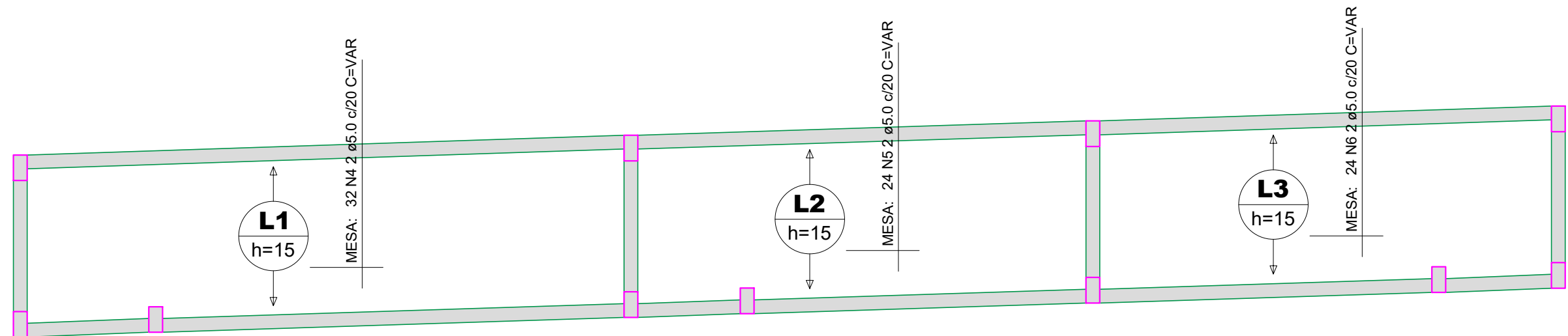
ALEXANDRE HENRIQUE SCHOLL

Endereço:

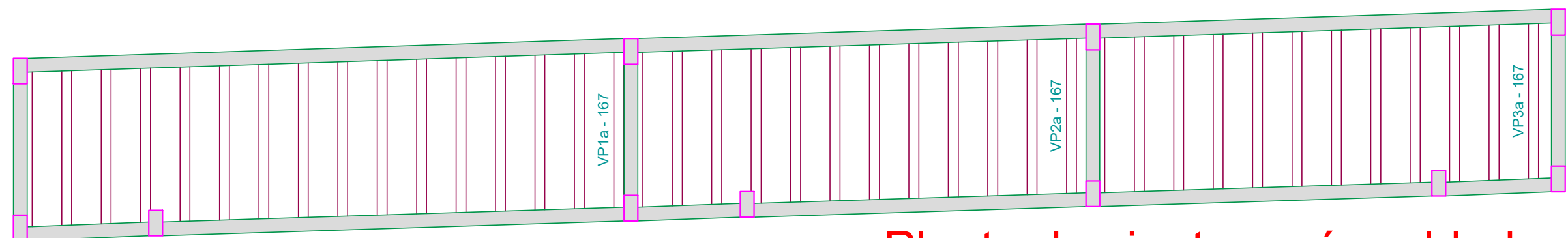
Rua Henrique Michels
Velha/Blumenau/SC



Armação positiva das lajes do pavimento Topo (Eixo X)
escala 1:50



Armação positiva das lajes do pavimento Topo (Eixo Y)
escala 1:50



Planta de vigotas pré-moldadas
escala 1:50

RESUMO DO AÇO - LAJE TOPO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA60	5.0	244.2	23	12 m	41.4
PESO TOTAL (kg)		Volume de concreto (C-25) = 1.20 m³			
CA60	41.4	Área de forma = 0.00 m²			



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Proprietário:

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Endereço:

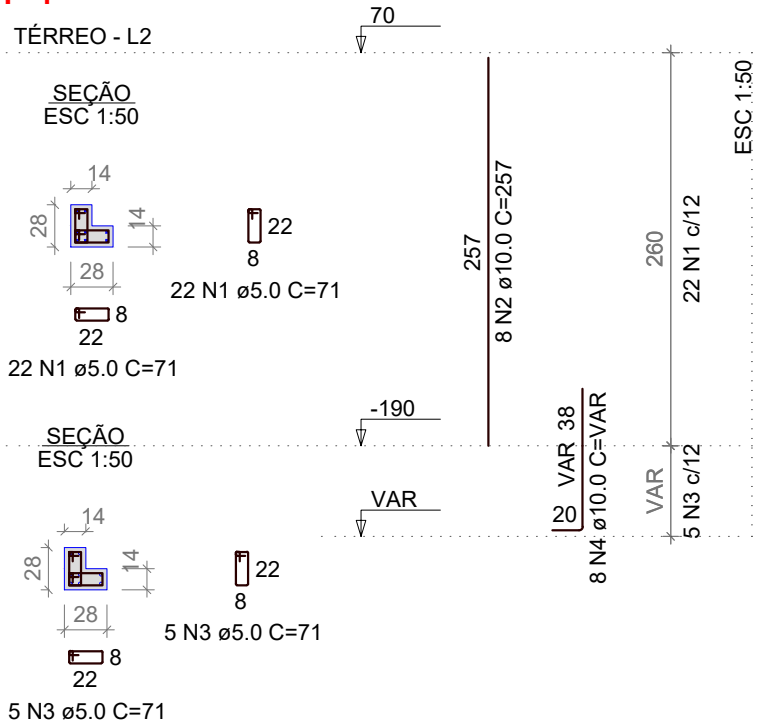
Rua Henrique Michels
Velha/Blumenau/SC

Escala: indicada

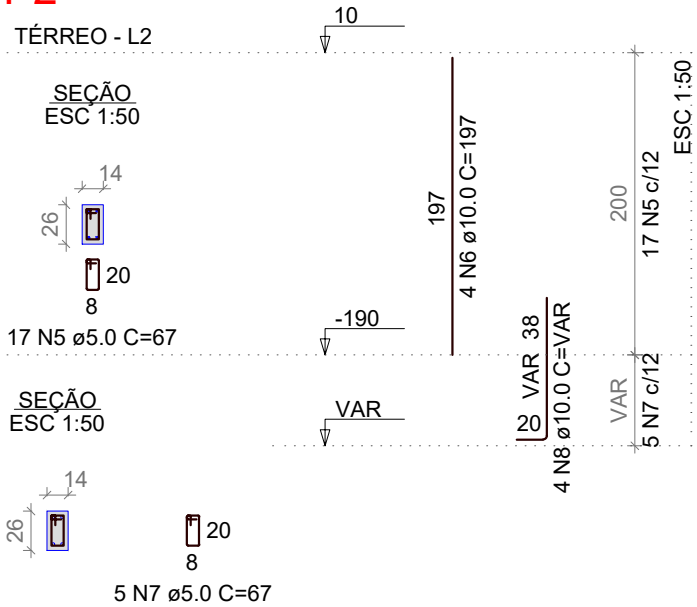
Folha: A3

Data: 10/06/2022

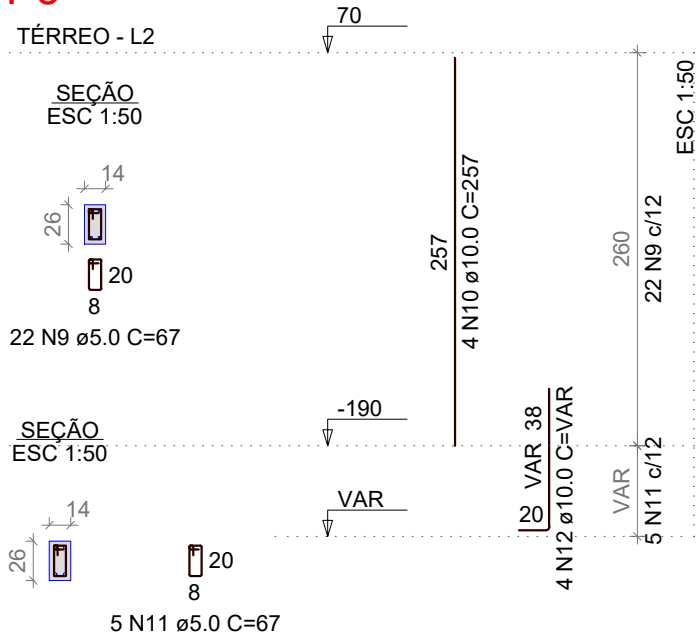
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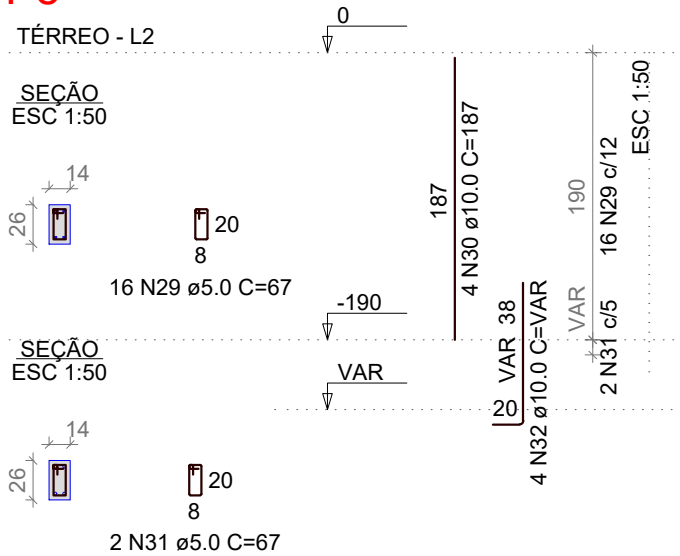
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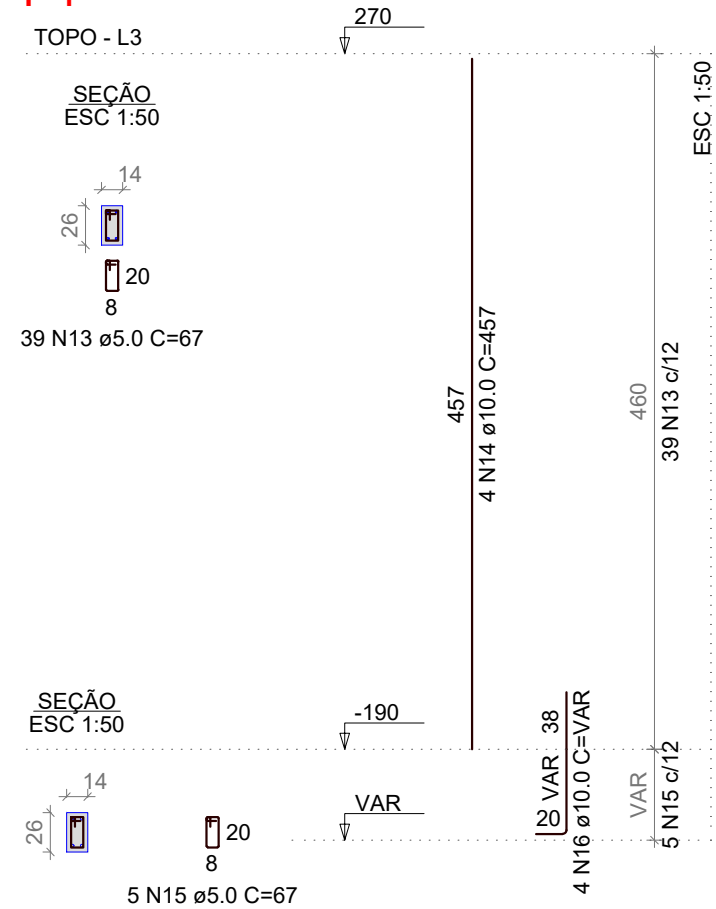
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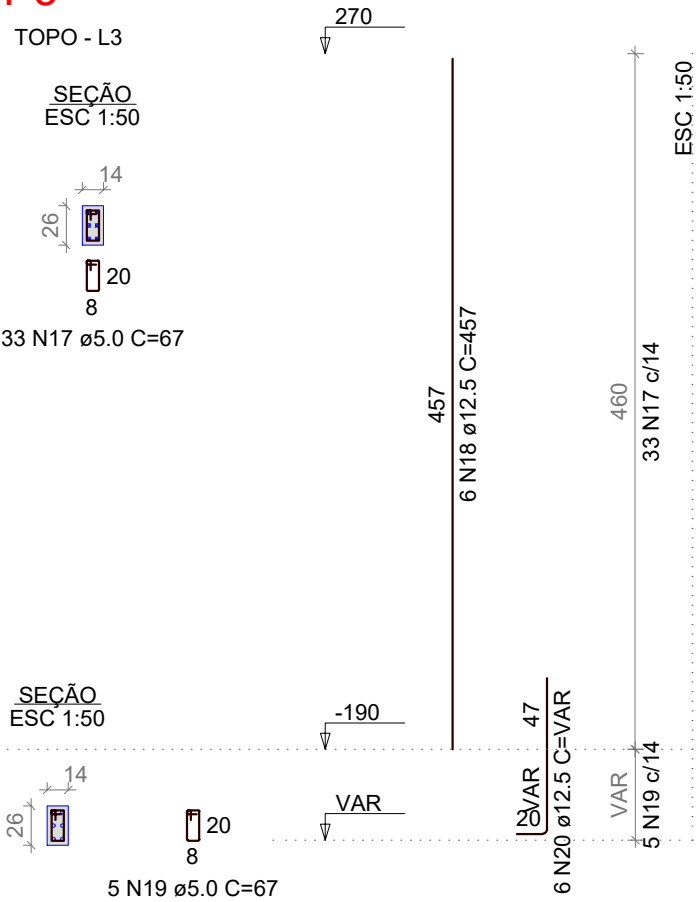
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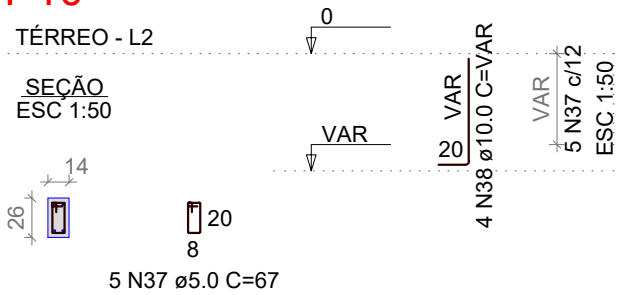
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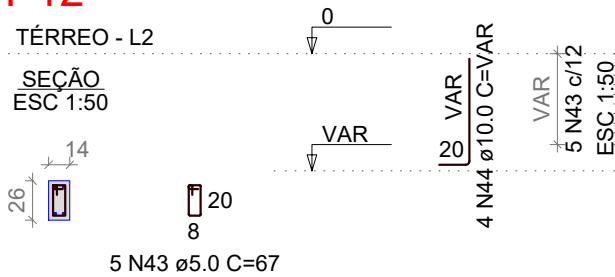
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P10



P12



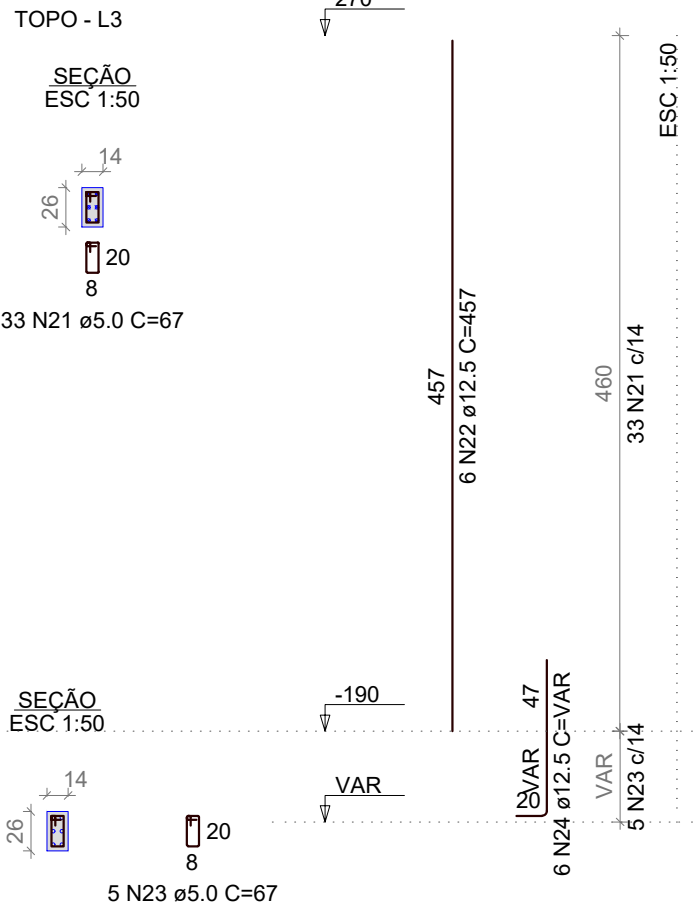
PILARES DE PRUMADA



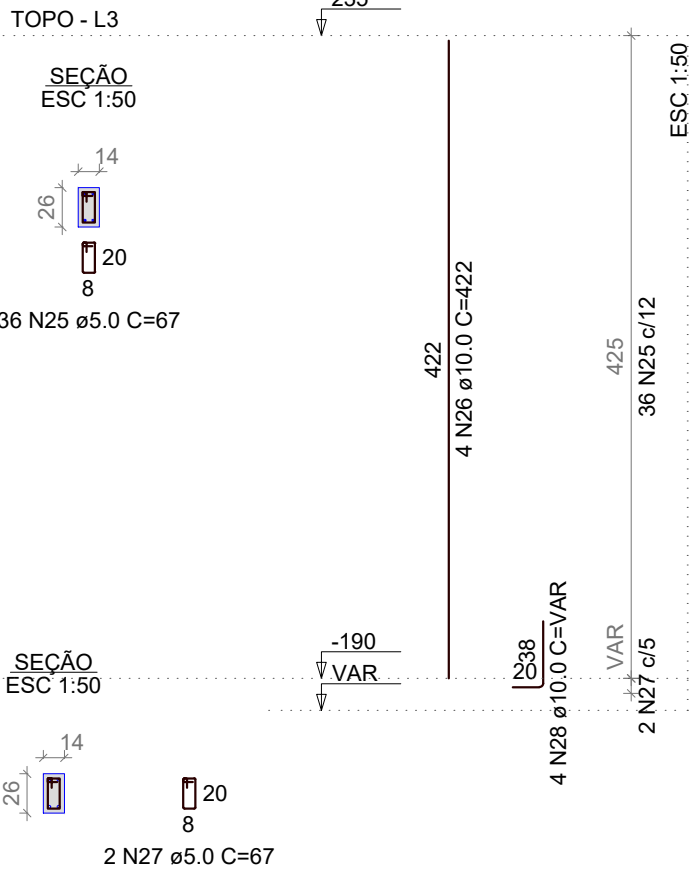
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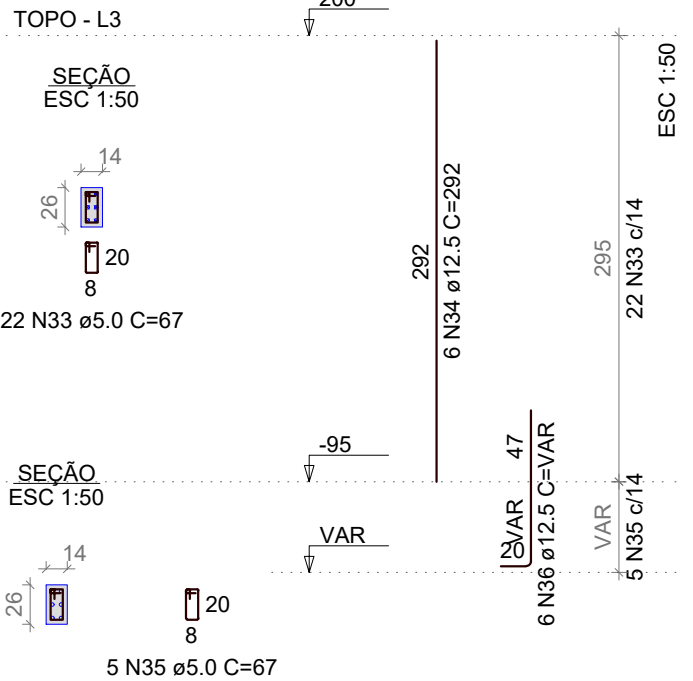
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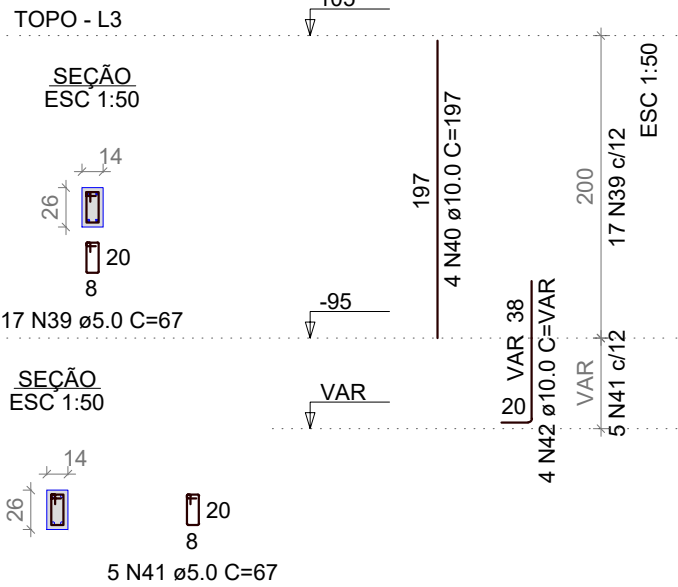
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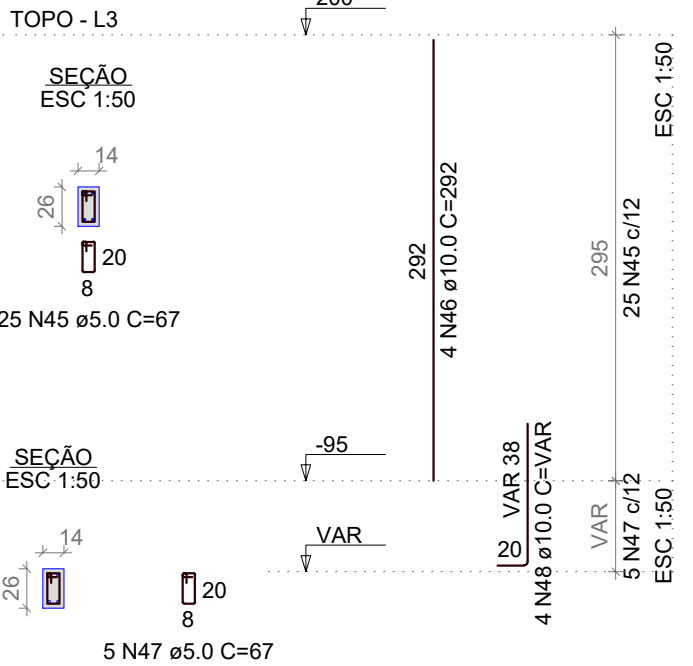
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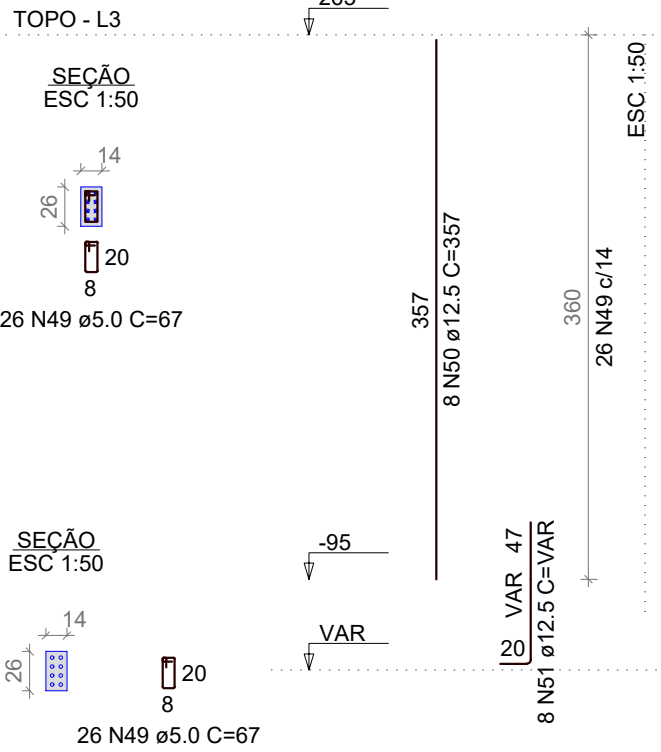
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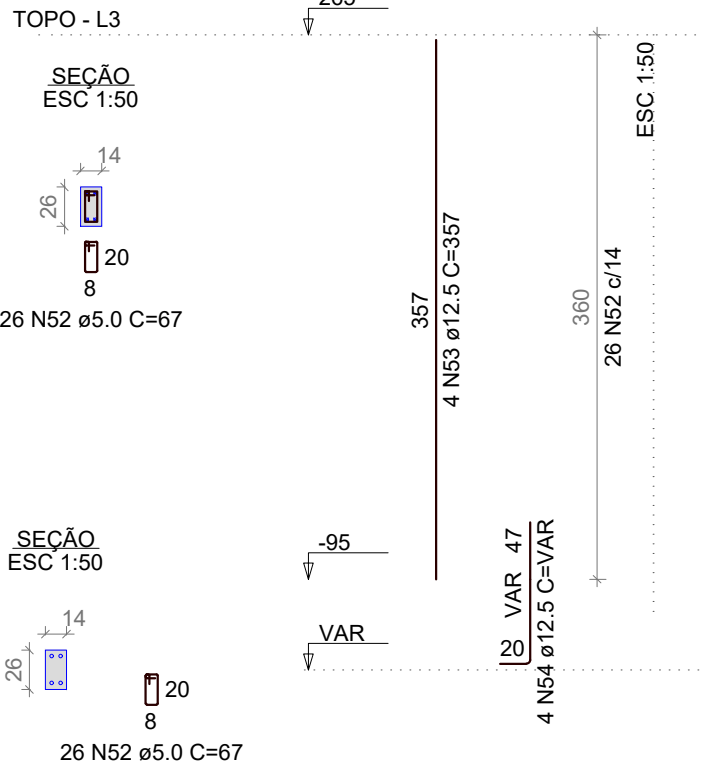
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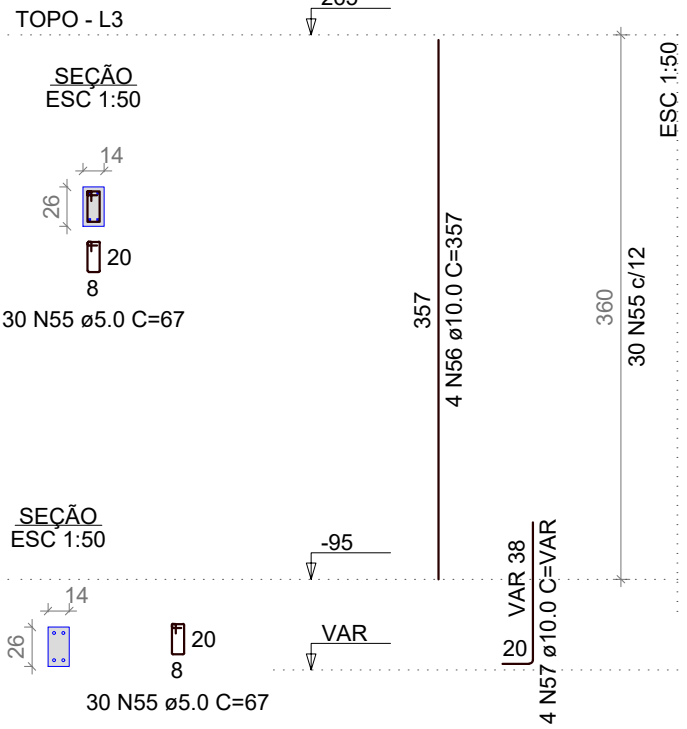
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P15



P16



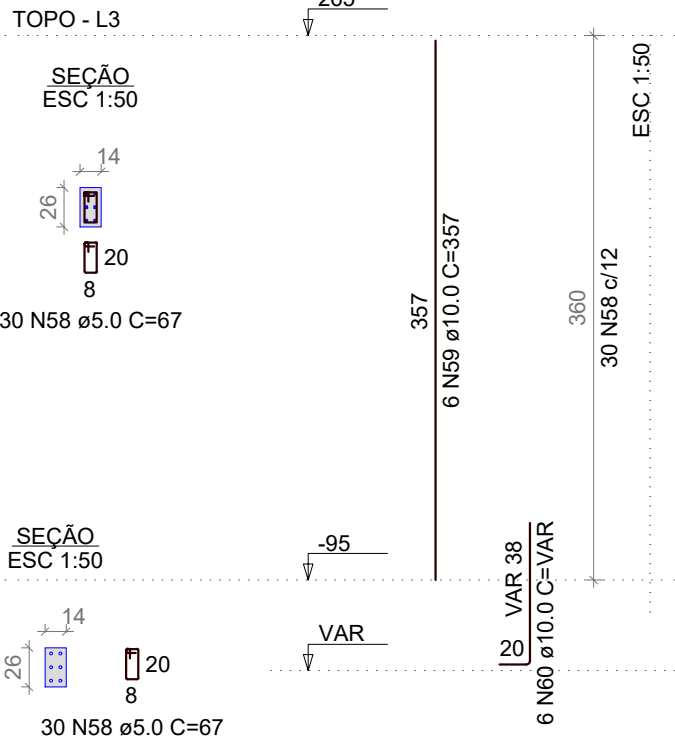
PILARES DE PRUMADA



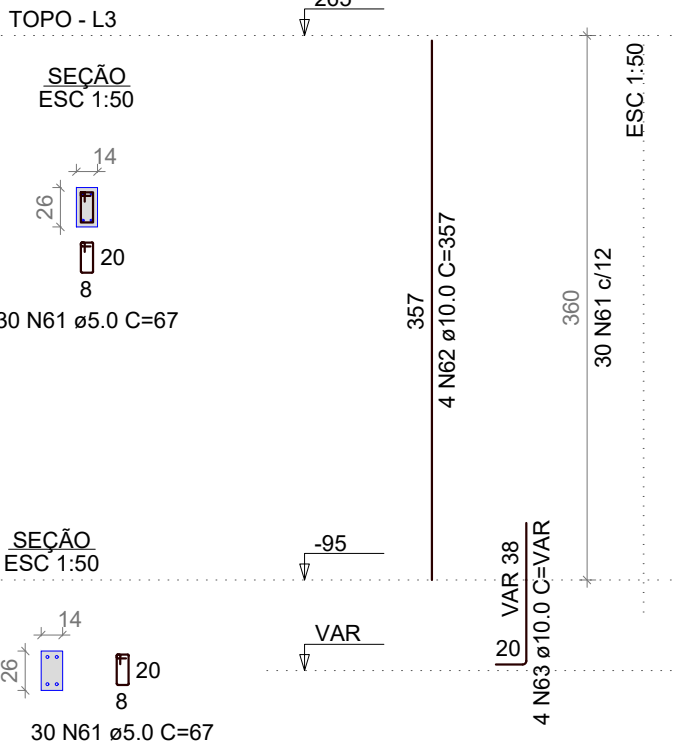
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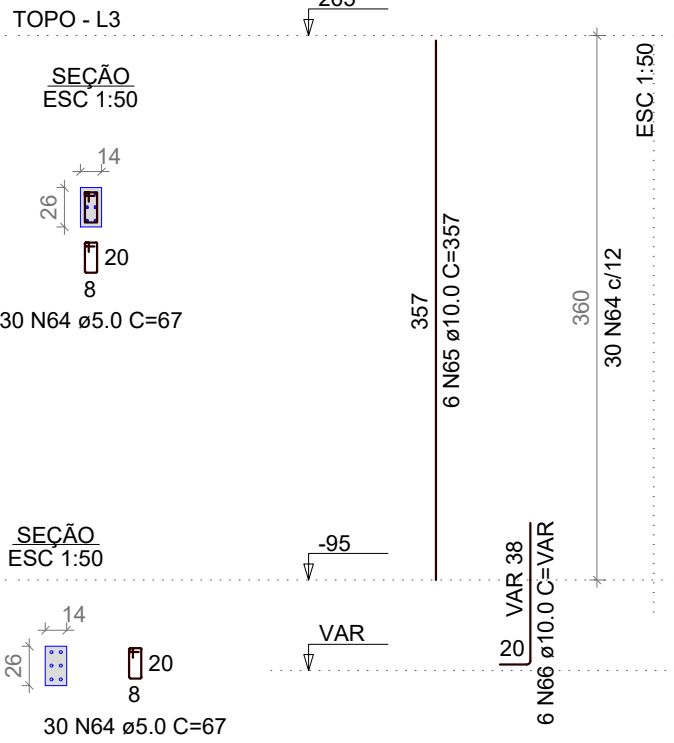
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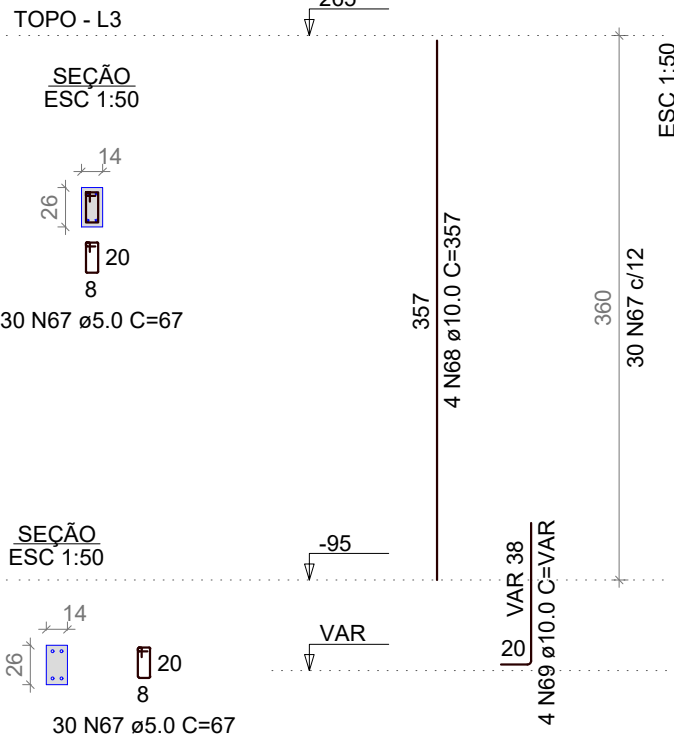
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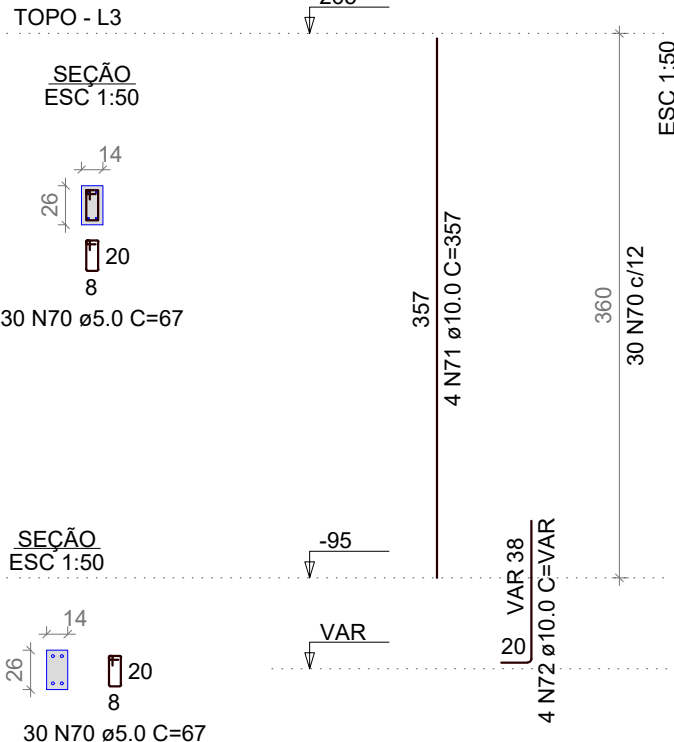
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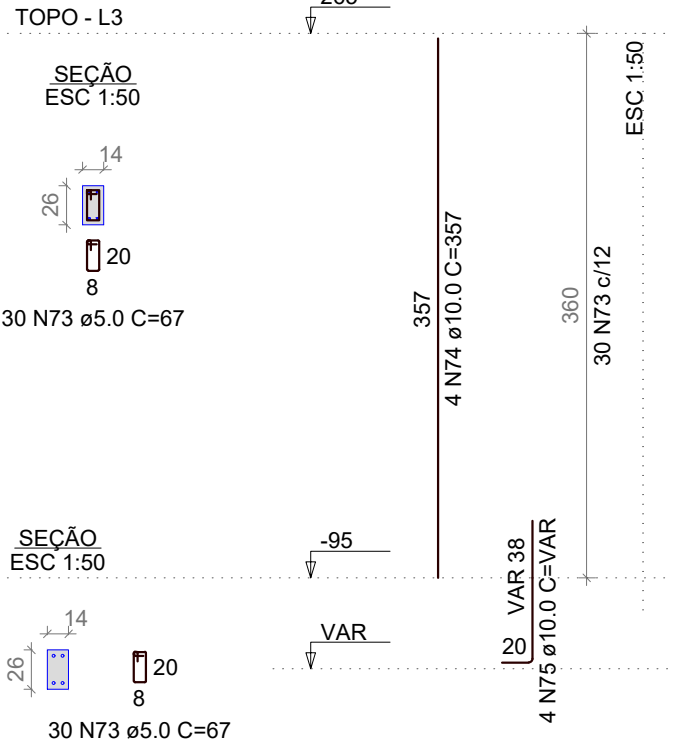
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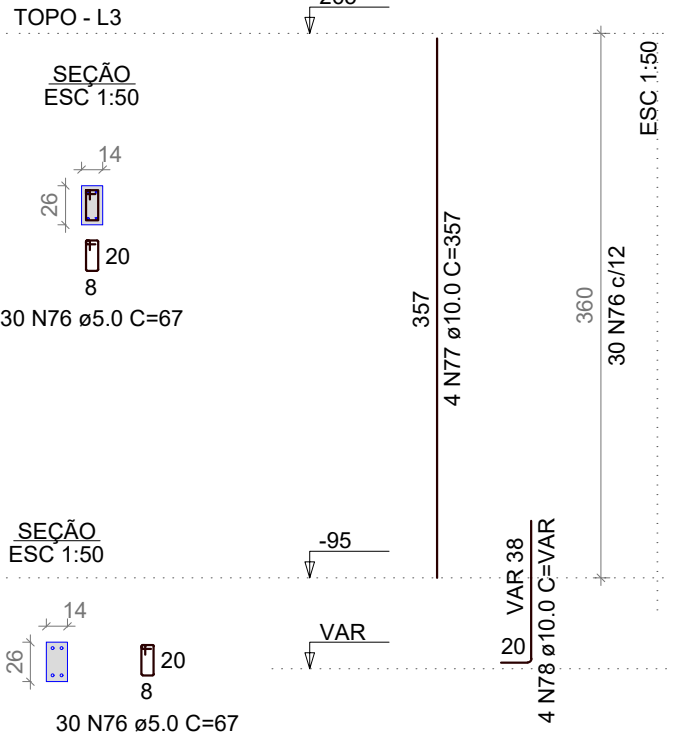
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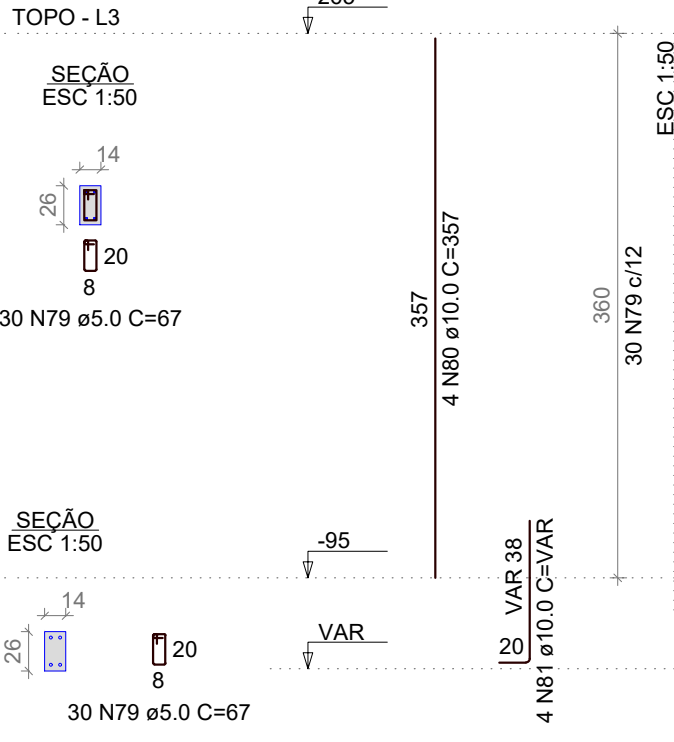
P22



P23



P24



RESUMO DO AÇO - TODOS PILARES

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	10.0	309.7	29	12 m	210
	12.5	145	14	12 m	153.6
CA60	5.0	464.5	43	12 m	78.7
PESO TOTAL (kg)		Volume de concreto (C-25) = 3.04 m³			
		Área de forma = 66.18 m²			
CA50	363.7				
CA60	78.7				

PILARES DE PRUMADA



CERTA

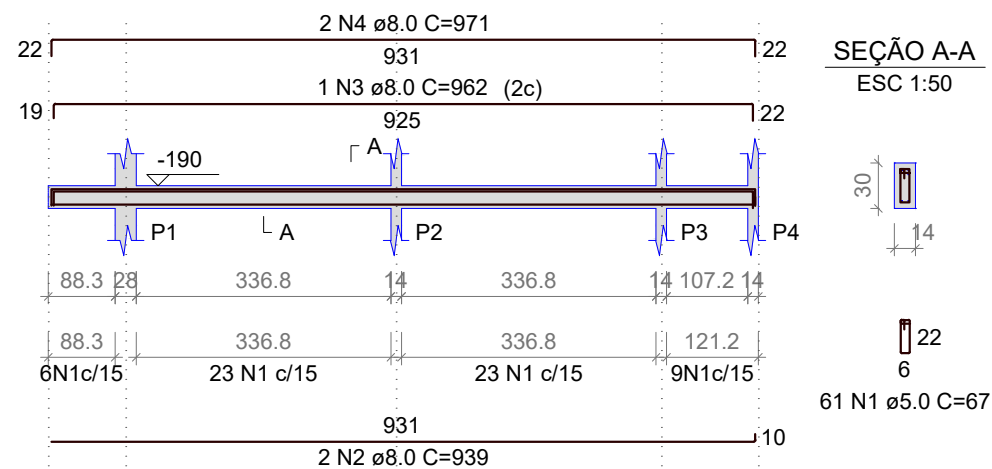
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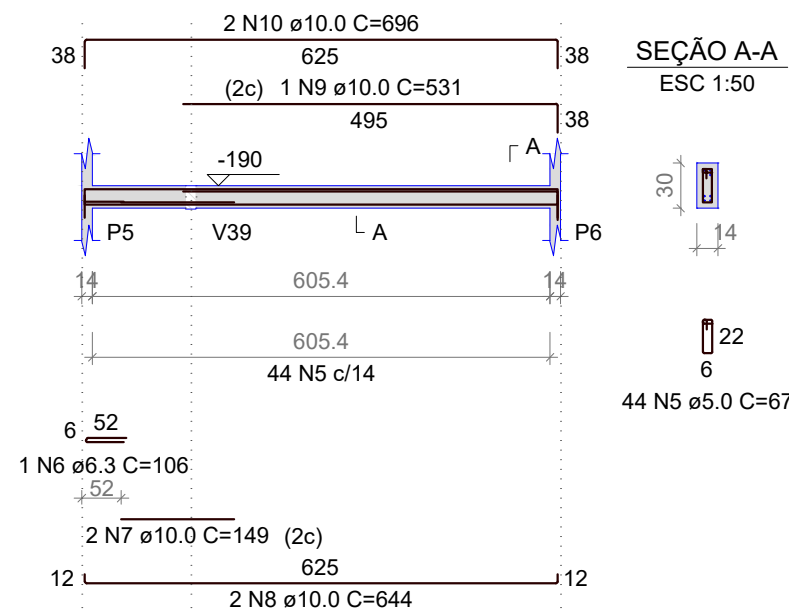
V1 (14 x 30)

ESC 1:100



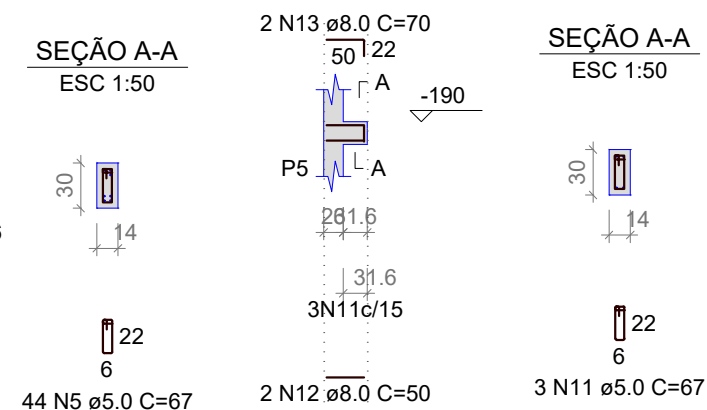
V2 (14 x 30)

ESC 1:100



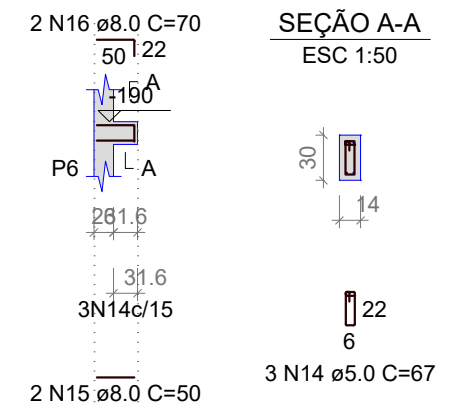
V3 (14 x 30)

ESC 1:100



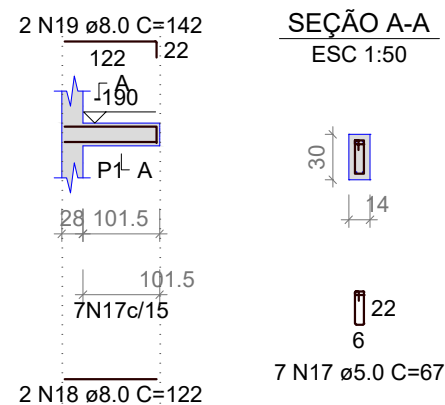
V4 (14 x 30)

ESC 1:100



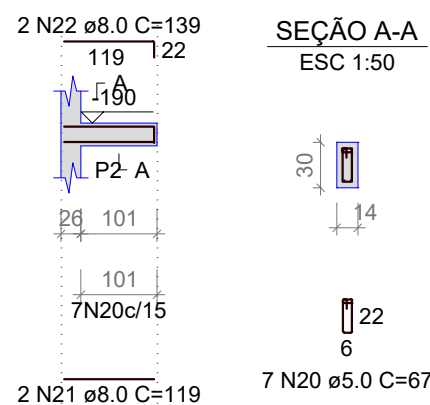
V5 (14 x 30)

ESC 1:100



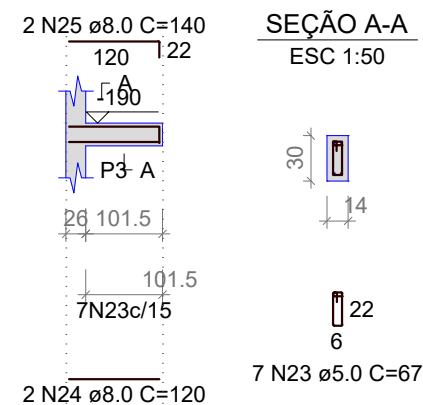
V6 (14 x 30)

ESC 1:100



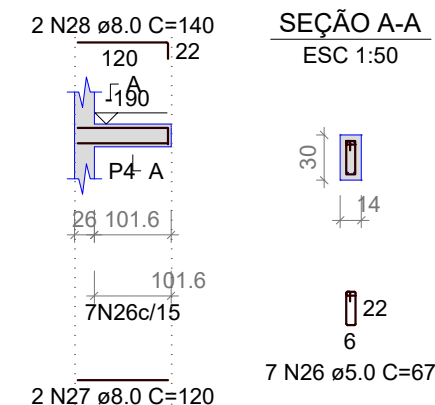
V7 (14 x 30)

ESC 1:100



V8 (14 x 30)

ESC 1:100



RESUMO DO AÇO - VIGAS SUBSOLO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	6.3	1.1	1	12 m	0.3
	8.0	73.5	7	12 m	31.9
	10.0	35.1	4	12 m	23.8
CA60	5.0	93.1	9	12 m	15.8
PESO TOTAL (kg)					
CA50	56				
CA60	15.8				

Volume de concreto (C-25) = 0.92 m³
 Área de forma = 16.28 m²

VIGAS SUBSOLO



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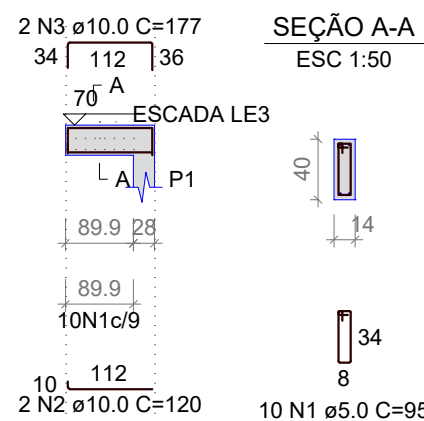
Escalas: indicada

Folha: A3

Data: 10/06/2022

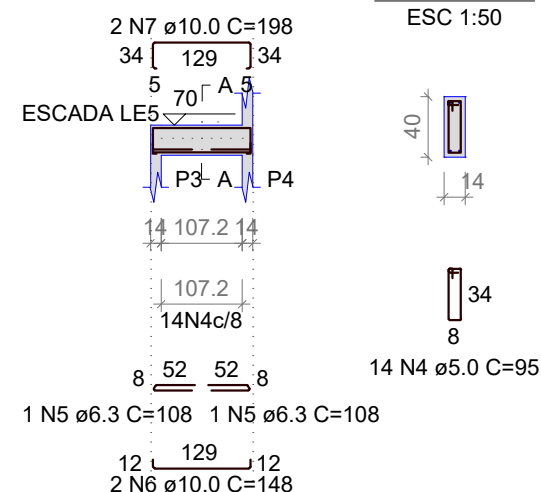
V1 (14 x 40)

ESC 1:100



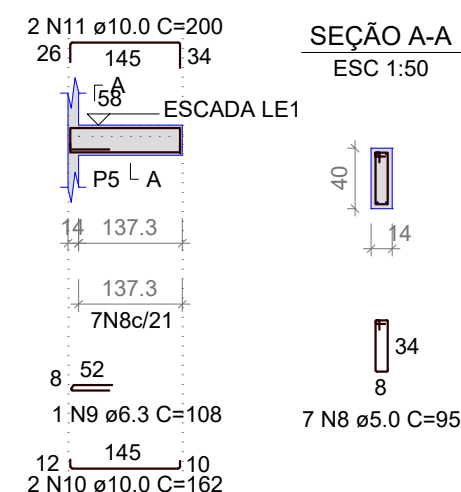
V2 (14 x 40)

ESC 1:100



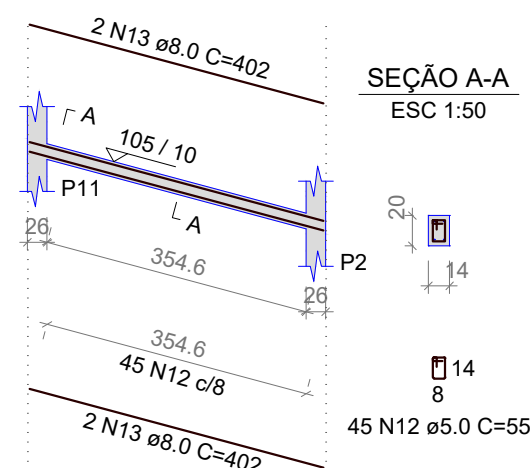
V3 (14 x 40)

ESC 1:100



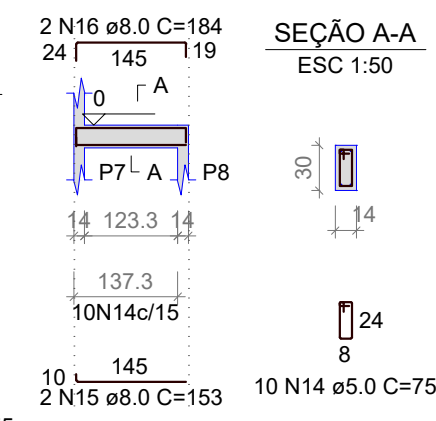
V4 (14 x 20)

ESC 1:100



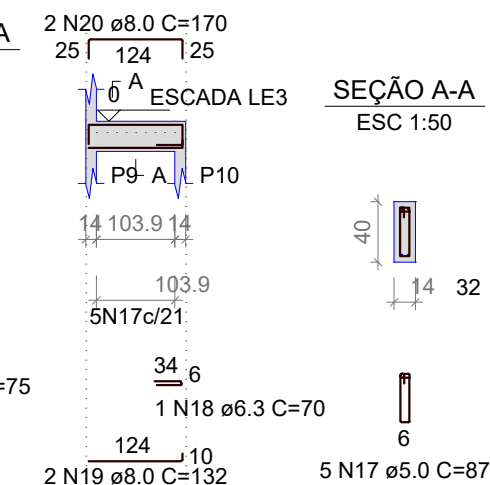
V5 (14 x 30)

ESC 1:100



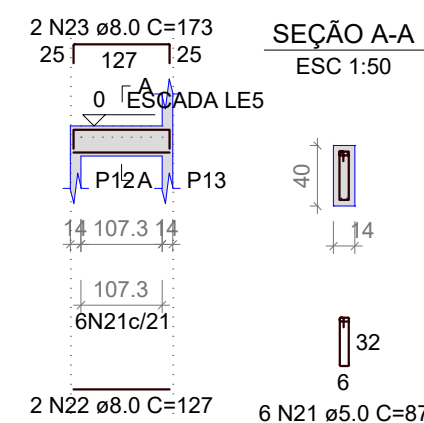
V6 (14 x 40)

ESC 1:100



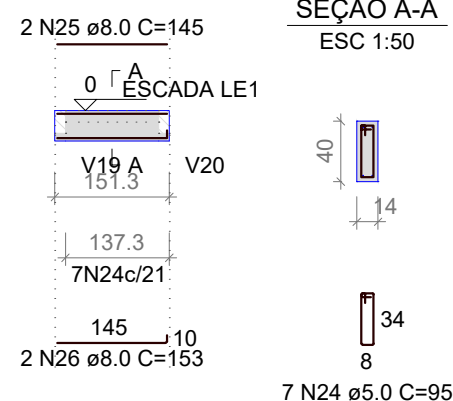
V7 (14 x 40)

ESC 1:100



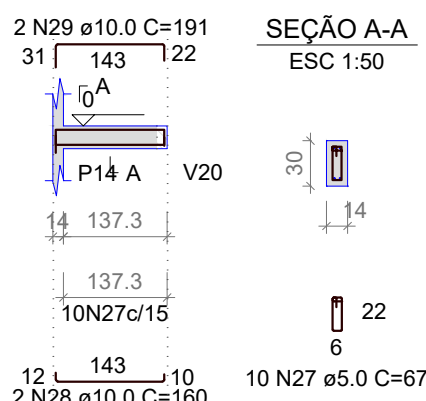
V8 (14 x 40)

ESC 1:100



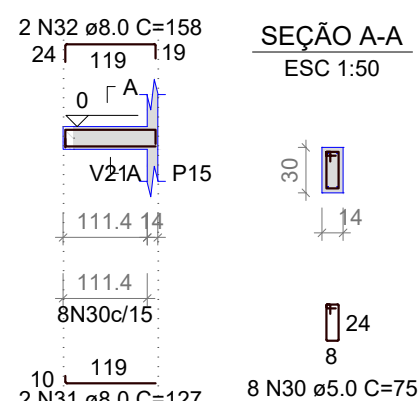
V9 (14 x 30)

ESC 1:100



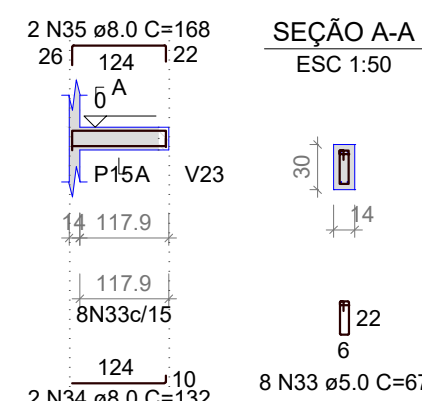
V10 (14 x 30)

ESC 1:100



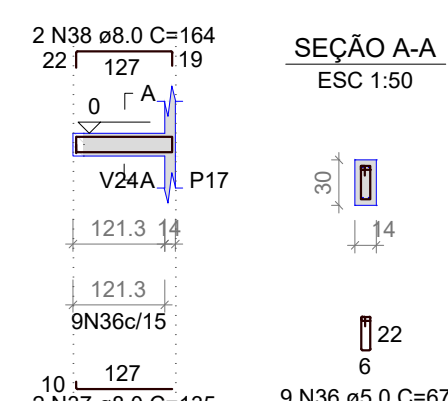
V11 (14 x 30)

ESC 1:100



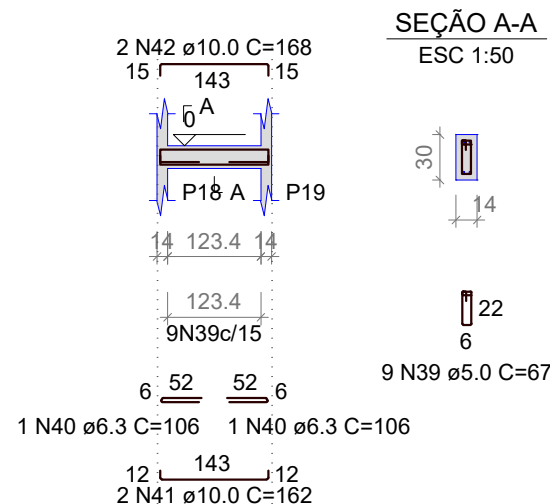
V12 (14 x 30)

ESC 1:100



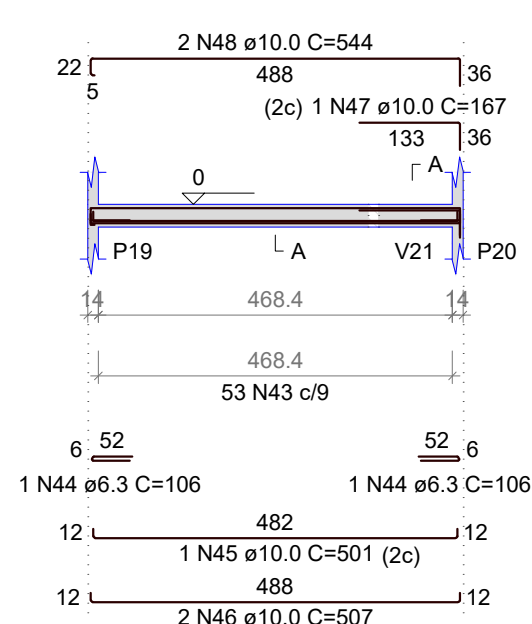
V13 (14 x 30)

ESC 1:100



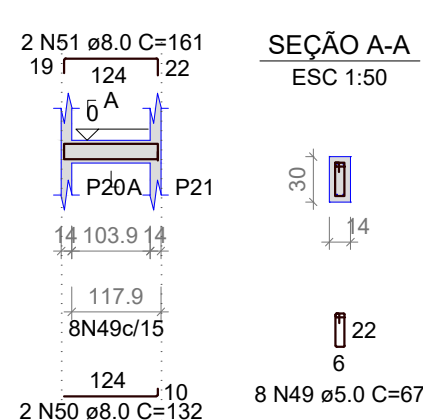
V14 (14 x 30)

ESC 1:100



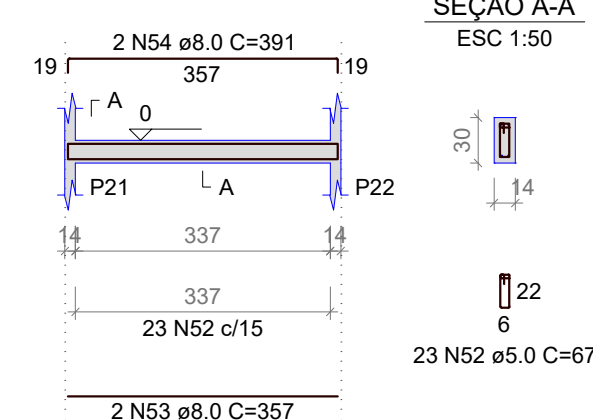
V15 (14 x 30)

ESC 1:100



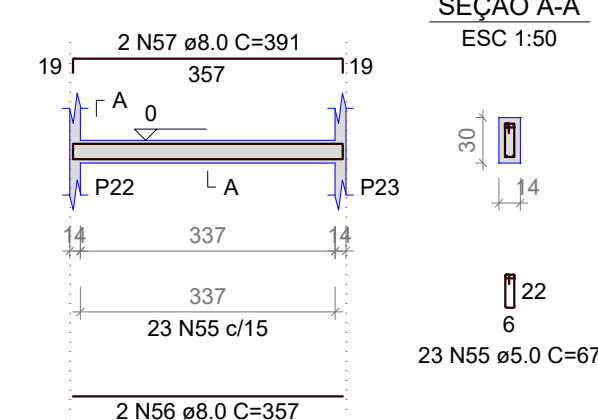
V16 (14 x 30)

ESC 1:100



V17 (14 x 30)

ESC 1:100



VIGAS TÉRREO



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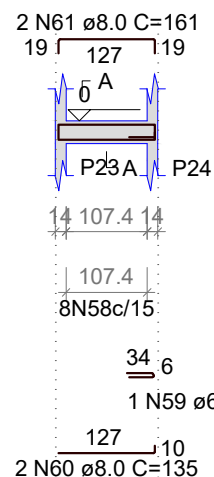
Escalas: indicada

Folha: A3

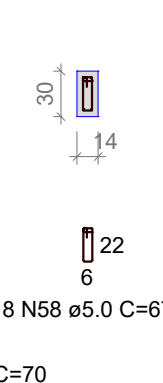
Data: 10/06/2022

V18 (14 x 30)

ESC 1:100

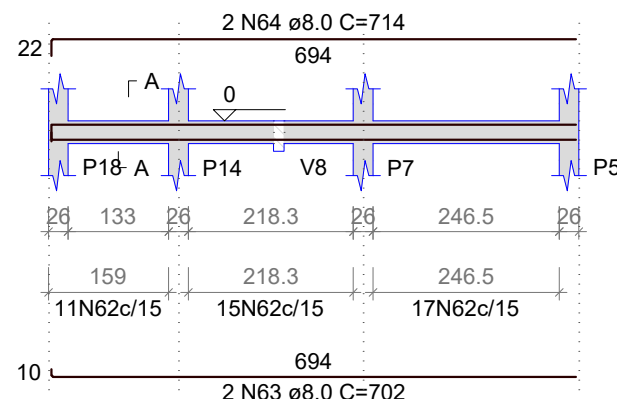


SEÇÃO A-A ESC 1:50

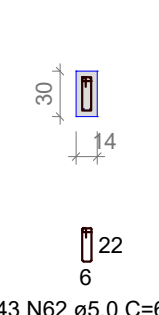


V19 (14 x 30)

ESC 1:100

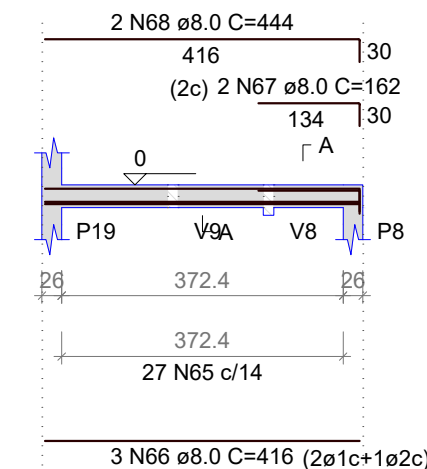


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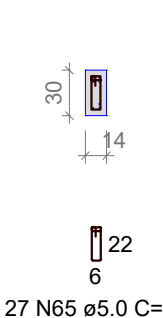


V20 (14 x 30)

ESC 1:100

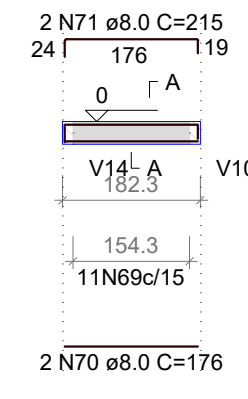


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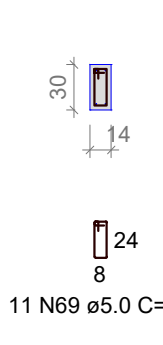


V21 (14 x 30)

ESC 1:100

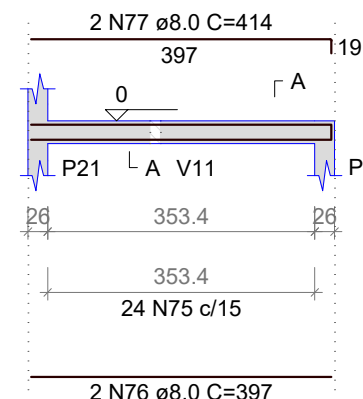


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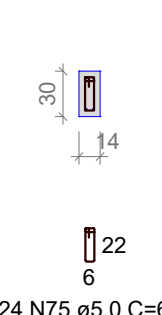


V23 (14 x 30)

ESC 1:100

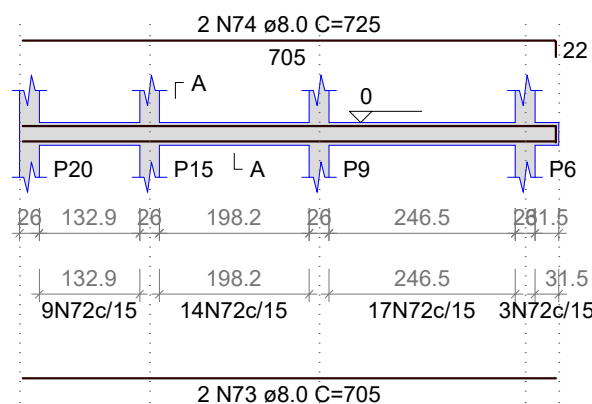


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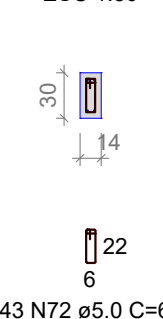


V22 (14 x 30)

ESC 1:100

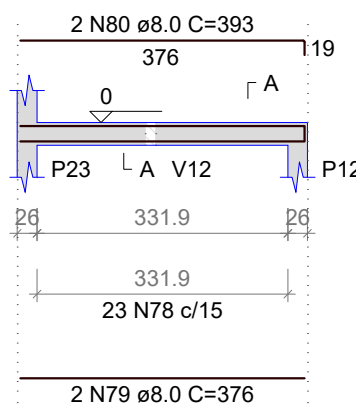


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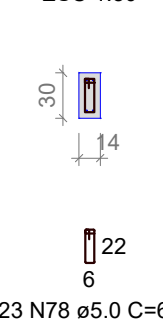


V24 (14 x 30)

ESC 1:100

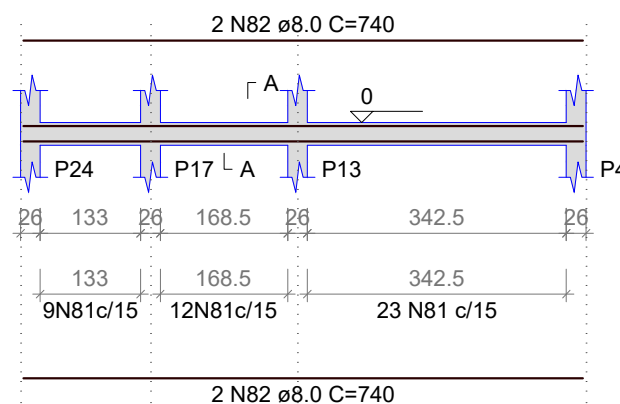


SEÇÃO A-A ESC 1:50

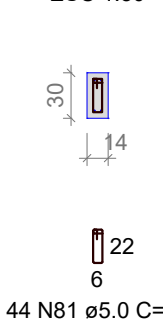


V25 (14 x 30)

ESC 1:100

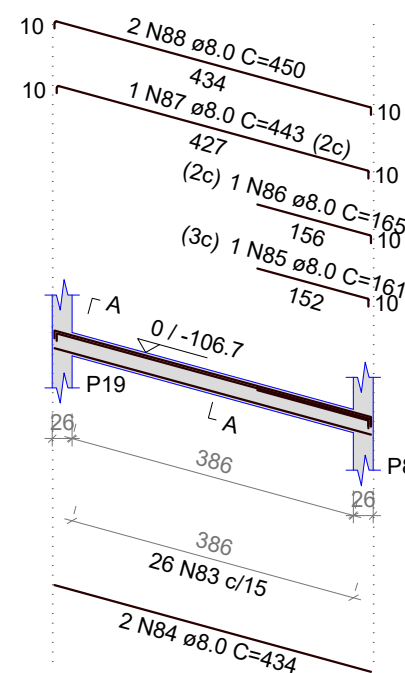


SEÇÃO A-A ESC 1:50

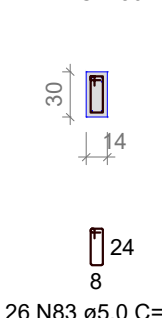


V26 (14 x 30)

ESC 1:100

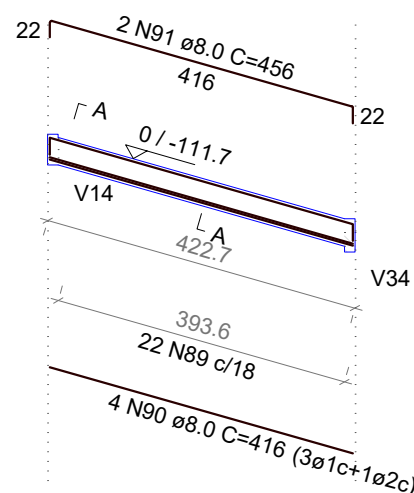


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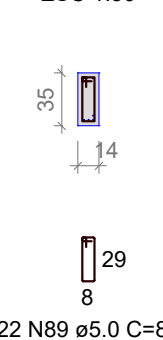


V27 (14 x 35)

ESC 1:100

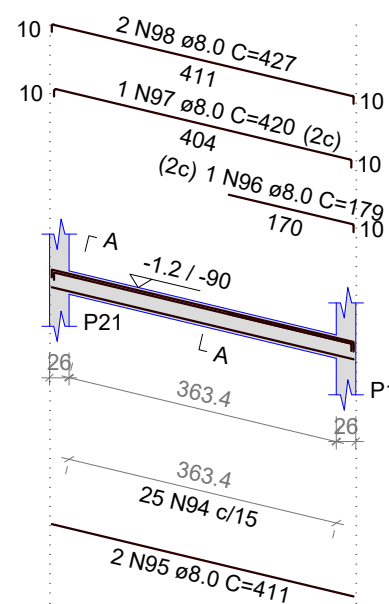


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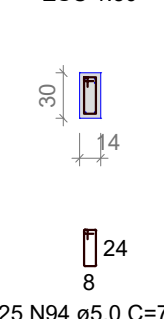


V29 (14 x 30)

ESC 1:100

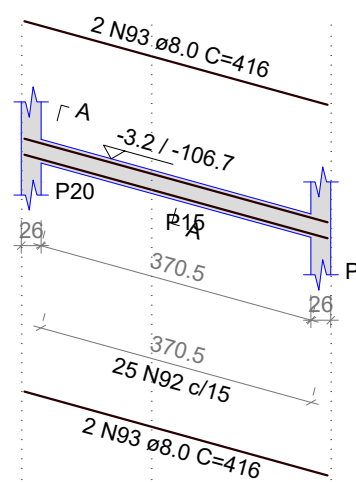


SEÇÃO A-A ESC 1:50

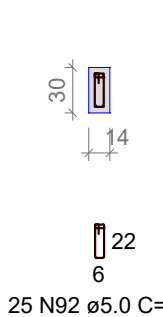


V28 (14 x 30)

ESC 1:100



SEÇÃO A-A ESC 1:50



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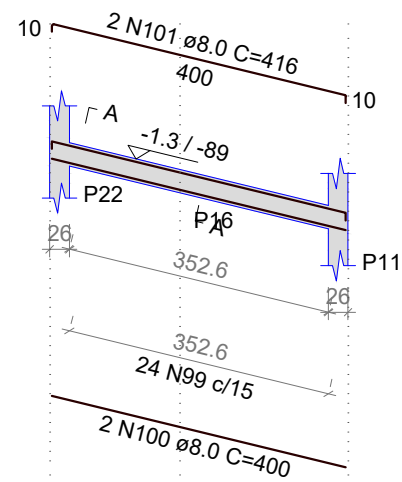
Escala: indicada

Folha: A3

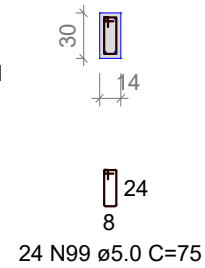
Data: 10/06/2022

V30 (14 x 30)

ESC 1:100

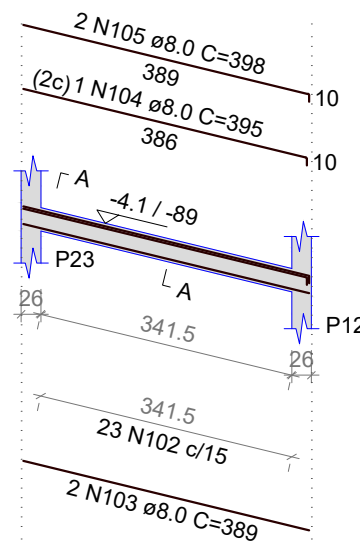


SEÇÃO A-A
ESC 1:50

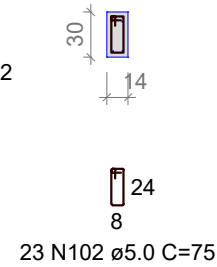


V31 (14 x 30)

ESC 1:100

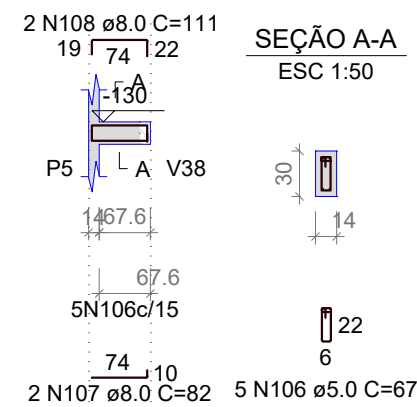


SEÇÃO A-A
ESC 1:50

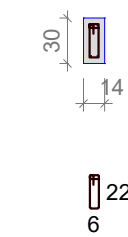


V32 (14 x 30)

ESC 1:100

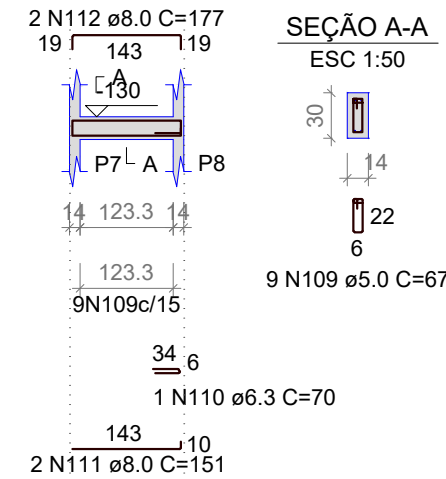


SEÇÃO A-A
ESC 1:50

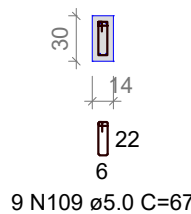


V33 (14 x 30)

ESC 1:100

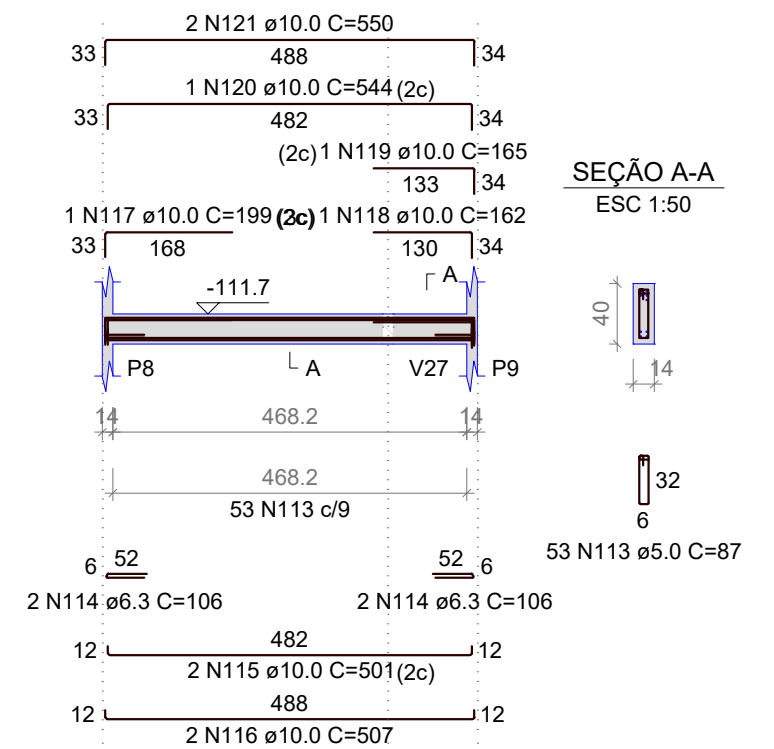


SEÇÃO A-A
ESC 1:50

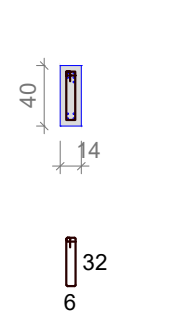


V34 (14 x 40)

ESC 1:100

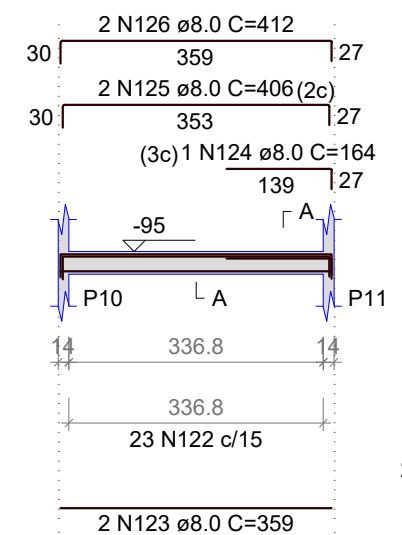


SEÇÃO A-A
ESC 1:50

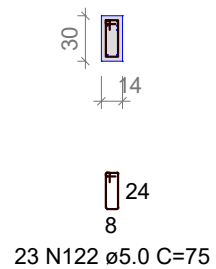


V35 (14 x 30)

ESC 1:100

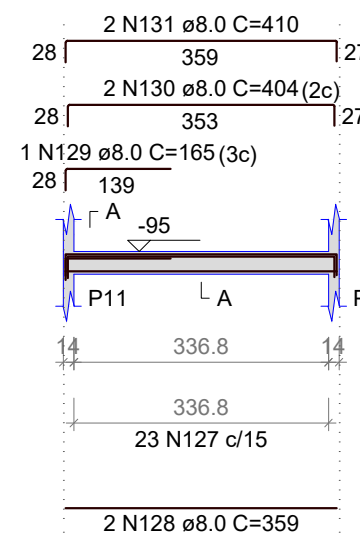


SEÇÃO A-A
ESC 1:50

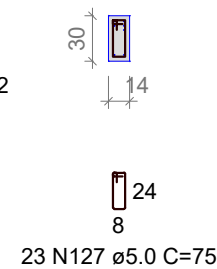


V36 (14 x 30)

ESC 1:100

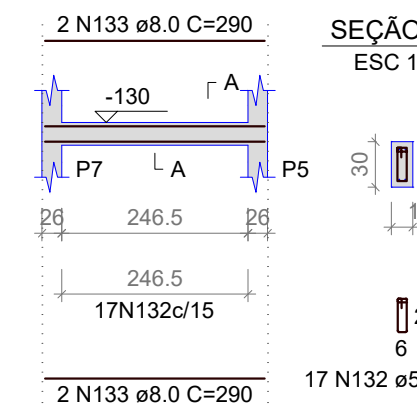


SEÇÃO A-A
ESC 1:50

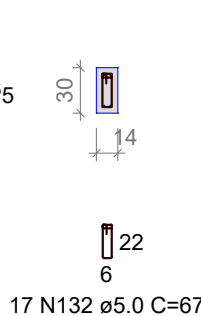


V37 (14 x 30)

ESC 1:100

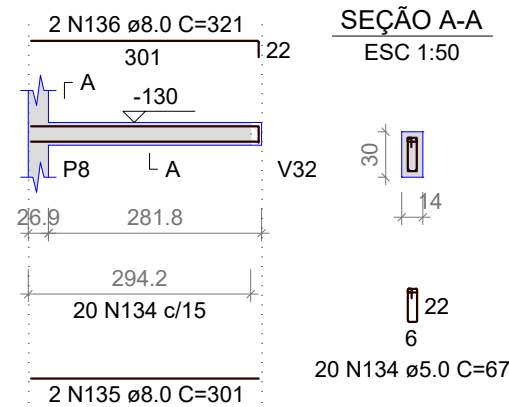


SEÇÃO A-A
ESC 1:50

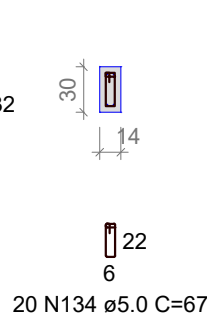


V38 (14 x 30)

ESC 1:100

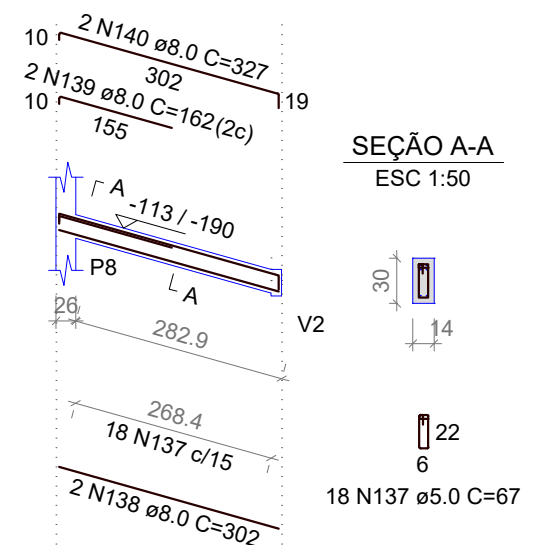


SEÇÃO A-A
ESC 1:50

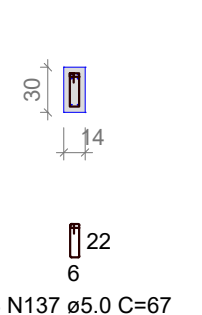


V39 (14 x 30)

ESC 1:100



SEÇÃO A-A
ESC 1:50



VIGAS TÉRREO



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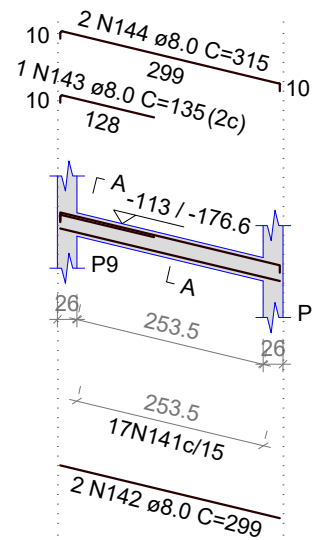
Escala: indicada

Folha: A3

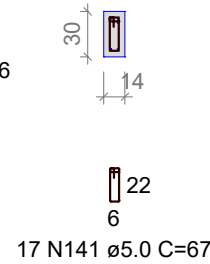
Data: 10/06/2022

V40 (14 x 30)

ESC 1:100

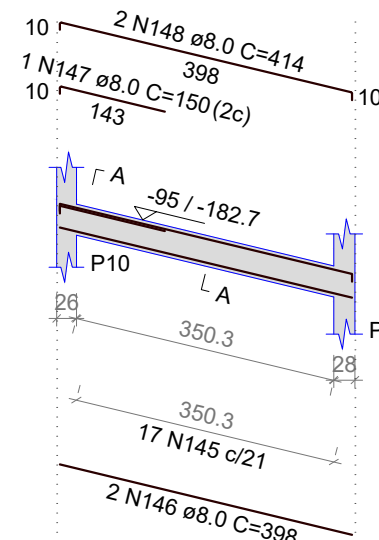


SEÇÃO A-A
ESC 1:50

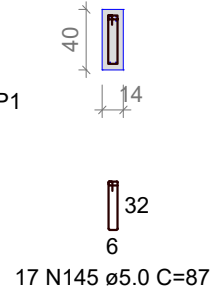


V41 (14 x 40)

ESC 1:100

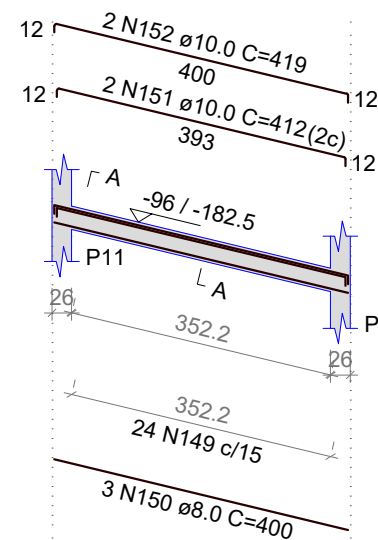


SEÇÃO A-A
ESC 1:50

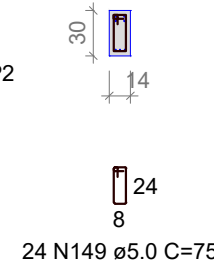


V42 (14 x 30)

ESC 1:100

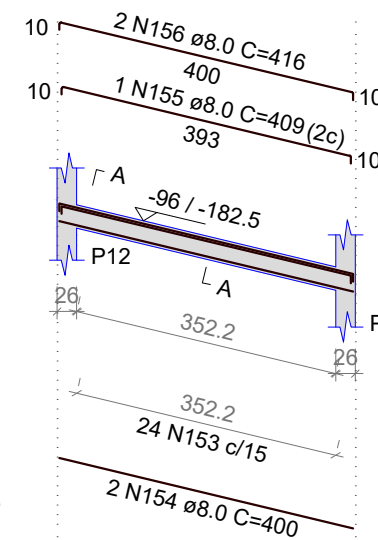


SEÇÃO A-A
ESC 1:50

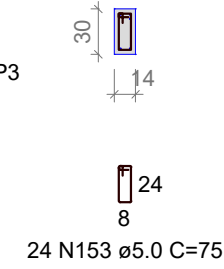


V43 (14 x 30)

ESC 1:100



SEÇÃO A-A
ESC 1:50



RESUMO DO AÇO - VIGAS - TÉRREO

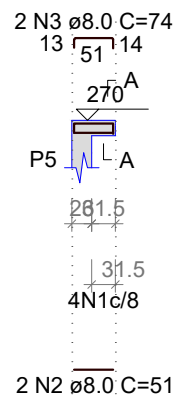
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	6.3	13.8	2	12 m	3.7
	8.0	541.6	50	12 m	235.1
	10.0	119.9	11	12 m	81.3
CA60	5.0	628	58	12 m	106.5
PESO TOTAL (kg)					
CA50	320.1				
CA60	106.5				

Volume de concreto (C-25) = 5.84 m³
Área de forma = 102.11 m²

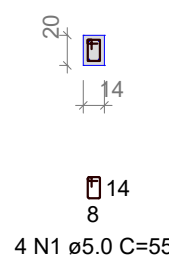
VIGAS TÉRREO

V1 (14 x 20)

ESC 1:100

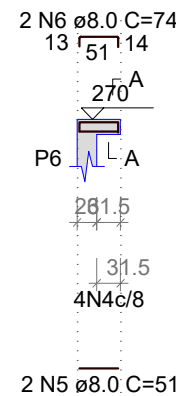


SEÇÃO A-A
ESC 1:50

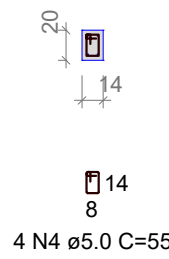


V2 (14 x 20)

ESC 1:100

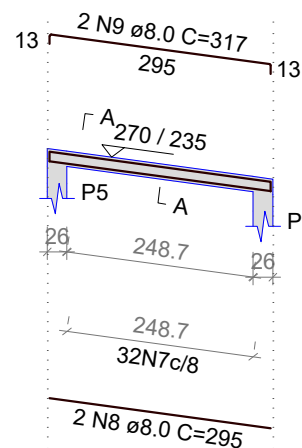


SEÇÃO A-A
ESC 1:50

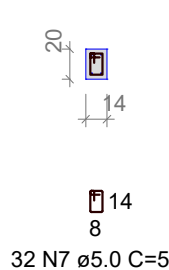


V3 (14 x 20)

ESC 1:100

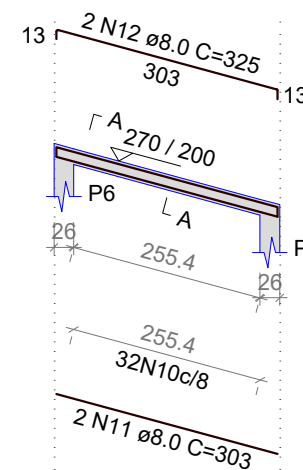


SEÇÃO A-A
ESC 1:50

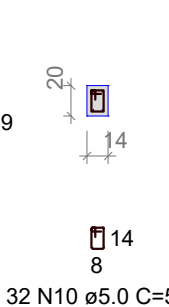


V4 (14 x 20)

ESC 1:100

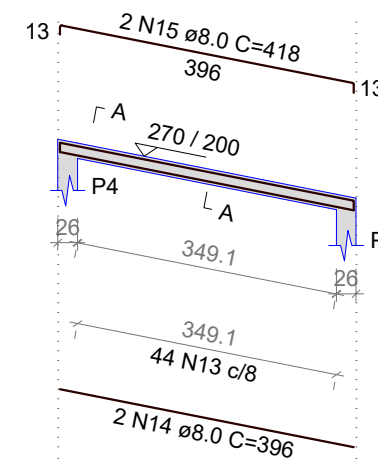


SEÇÃO A-A
ESC 1:50

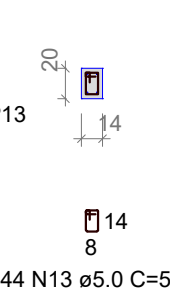


V5 (14 x 20)

ESC 1:100



SEÇÃO A-A
ESC 1:50



VIGAS TOPO



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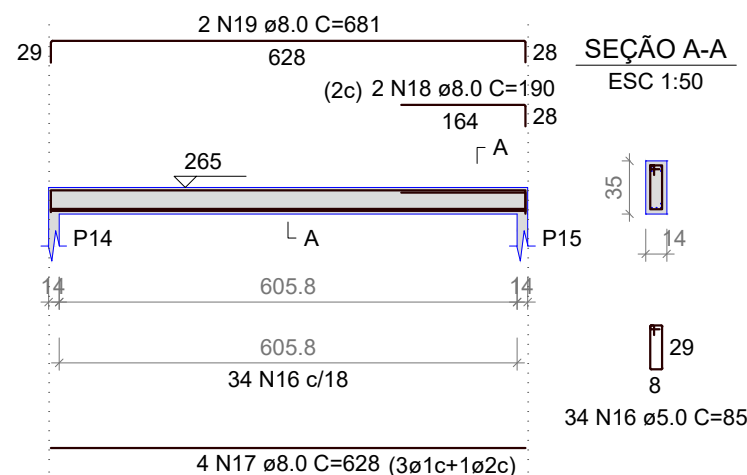
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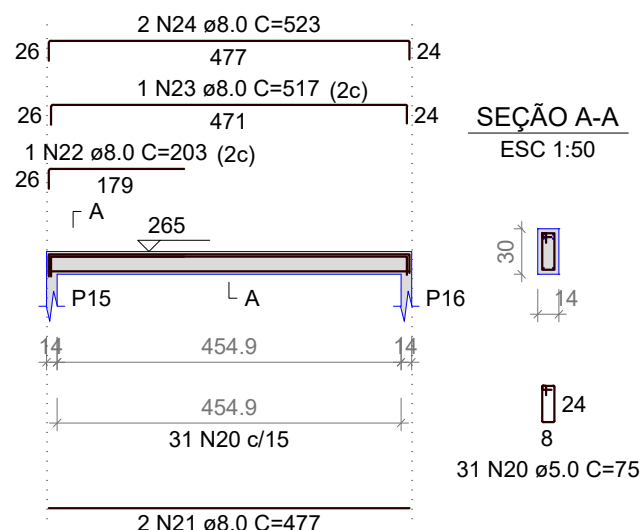
V6 (14 x 35)

ESC 1:100



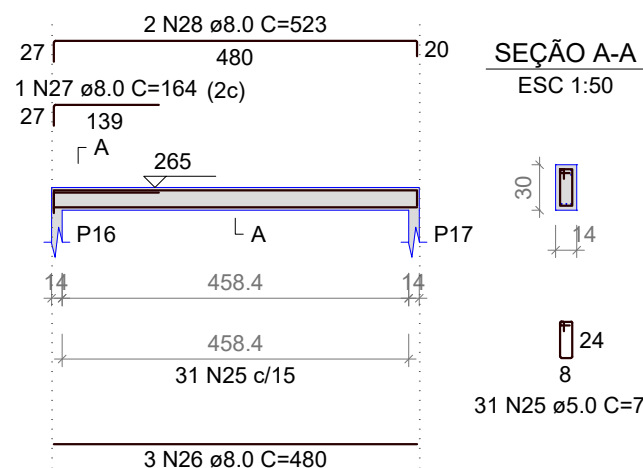
V7 (14 x 30)

ESC 1:100



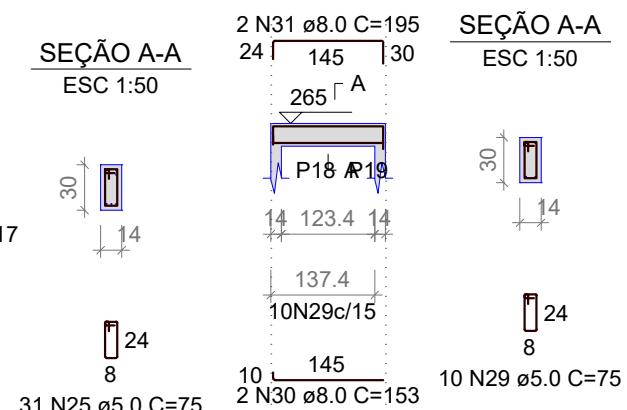
V8 (14 x 30)

ESC 1:100



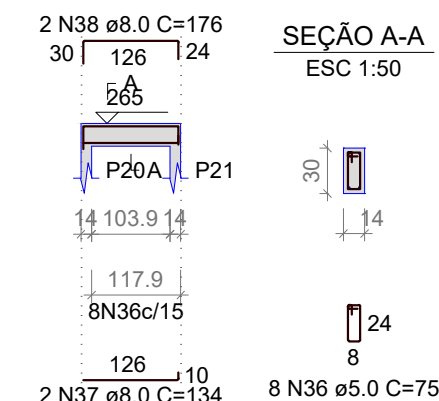
V9 (14 x 30)

ESC 1:100



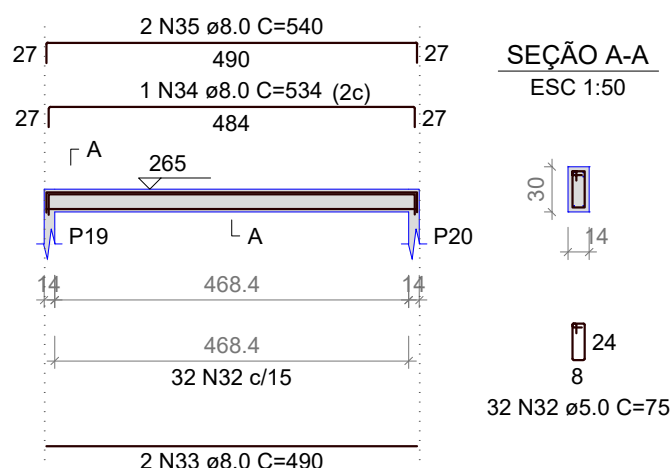
V11 (14 x 30)

ESC 1:100



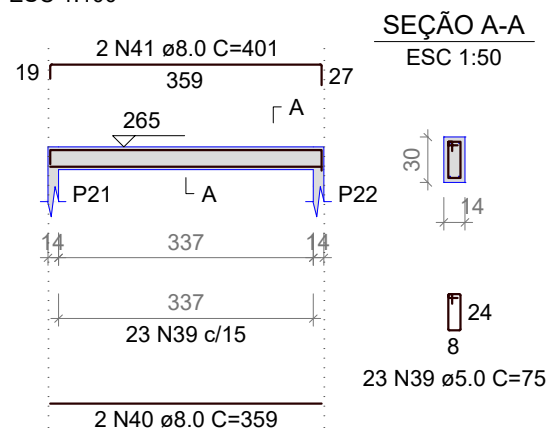
V10 (14 x 30)

ESC 1:100



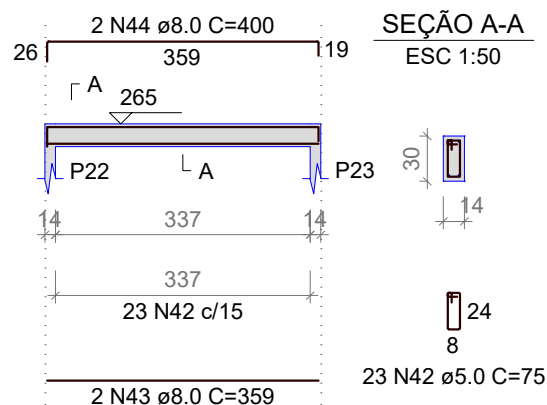
V12 (14 x 30)

ESC 1:100



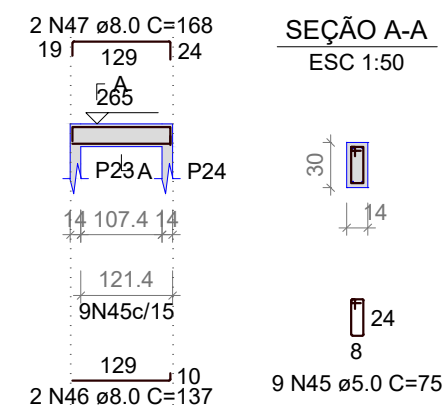
V13 (14 x 30)

ESC 1:100



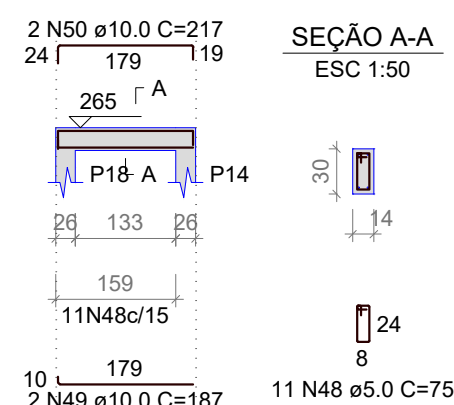
V14 (14 x 30)

ESC 1:100



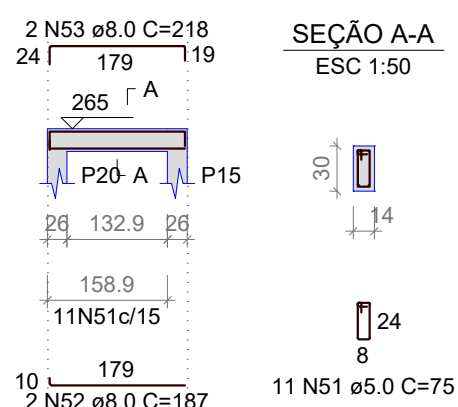
V15 (14 x 30)

ESC 1:100



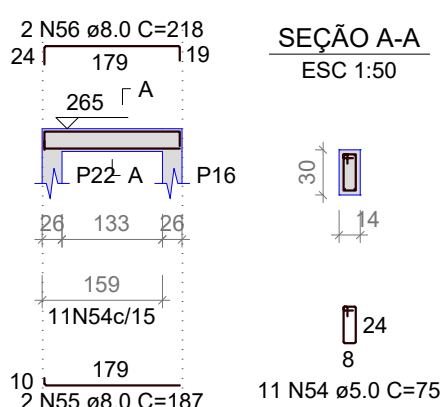
V16 (14 x 30)

ESC 1:100



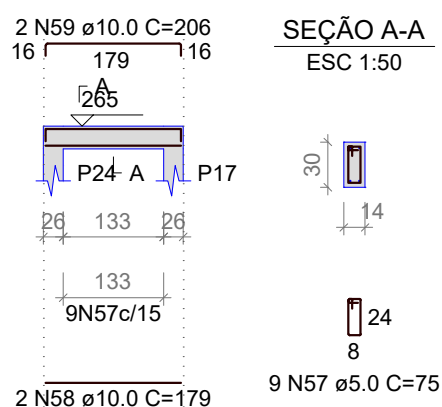
V17 (14 x 30)

ESC 1:100



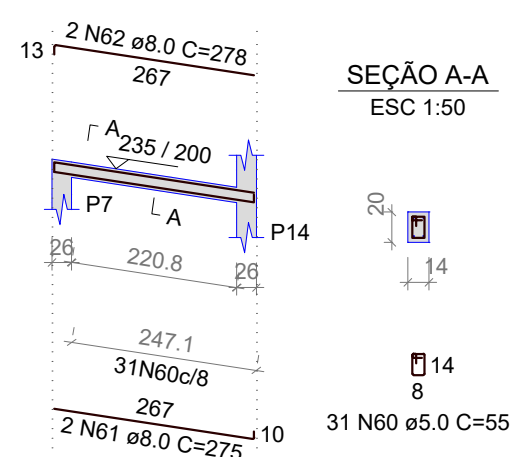
V18 (14 x 30)

ESC 1:100



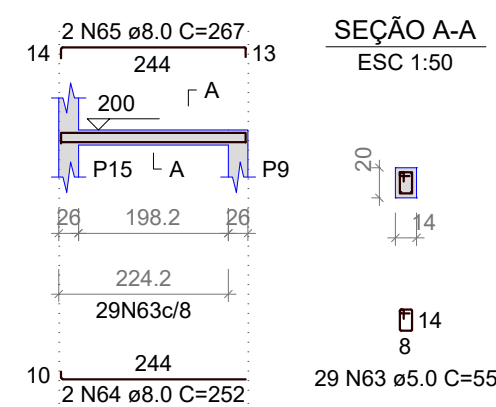
V19 (14 x 20)

ESC 1:100



V20 (14 x 20)

ESC 1:100



VIGAS TOPO



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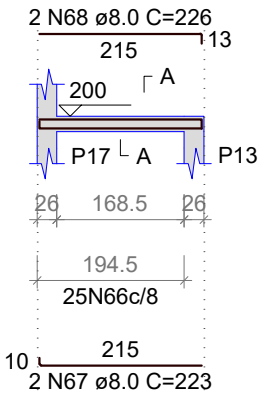
Escala: indicada

Folha: A3

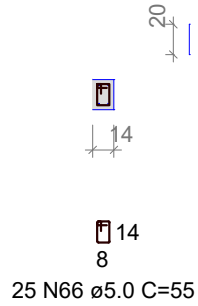
Data: 10/06/2022

V21 (14 x 20)

ESC 1:100

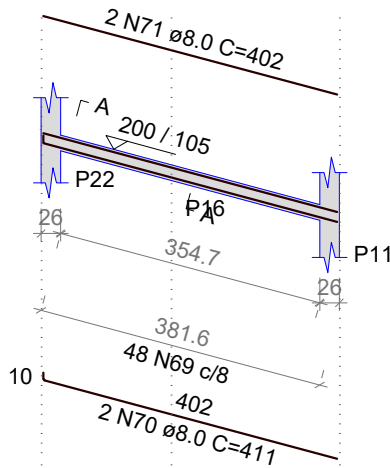


SEÇÃO A-A
ESC 1:50

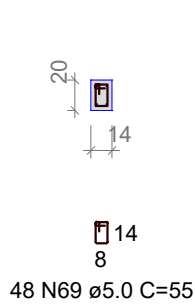


V22 (14 x 20)

ESC 1:100



SEÇÃO A-A
ESC 1:50



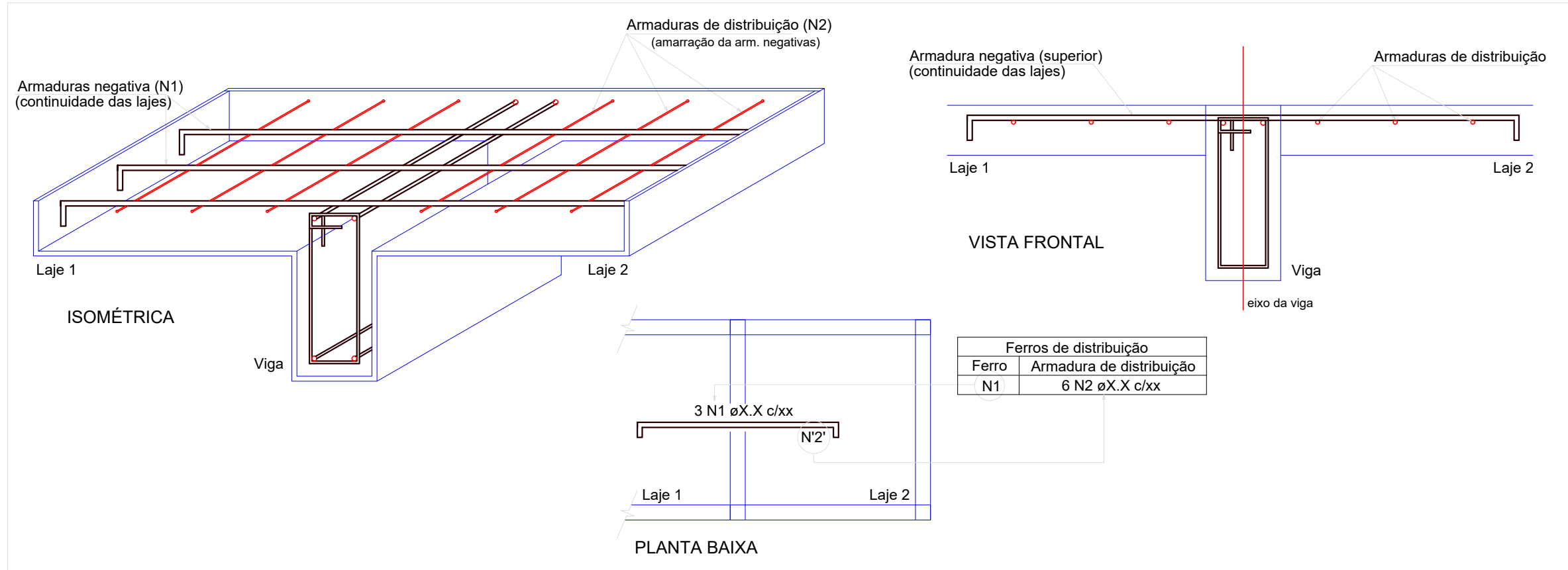
RESUMO DO AÇO - VIGAS TOPO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	8.0	280.8	26	12 m	121.9
CA60	10.0	15.8	2	12 m	10.7
CA60	5.0	322.6	30	12 m	54.7
PESO TOTAL (kg)					
CA50	132.6				
CA60	54.7				

Volume de concreto (C-25) = 2.35 m³

Área de forma = 42.25 m²

DETALHE DA ARMADURA DE SUPERIOR DE CONTINUIDADE DA LAJE E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO



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