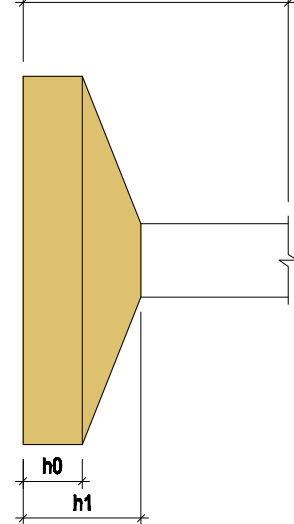


Pila									
Nome	Seção	X (m)	Y (m)	Comp. Mito. (m)	Máx. Momento (kgf.m)	Máx. Momento (kgf.m)	E1-Momento (kgf.m)	E2-Momento (kgf.m)	Fatigação
P1	15x40	7.50	1700.00	1.1	0.8	0	0.3	0.0	0
P2	15x40	241.00	1707.50	1.9	1.7	100	0	0.1	0
P3	15x40	613.50	1707.50	3.2	3.1	0	0.1	0.0	0
P4	15x40	884.00	1707.50	1.4	1.2	100	0	0.1	0
P5	15x40	1154.50	1707.50	3.2	3.0	0	0.3	0.0	0
P6	15x40	228.50	1535.00	3.2	3.0	-200	0	0.2	0
P7	15x40	982.50	1535.00	2.4	2.3	100	0	0.3	0
P8	15x40	7.50	1100.00	1.7	1.4	0	0.4	0.0	0
P9	15x40	228.50	1100.00	3.0	2.9	100	0	0.3	0
P10	15x40	982.50	1100.00	2.5	2.0	0	0.3	0.0	0
P11	15x40	1535.00	1100.00	1.8	1.6	100	0	0.2	0
P12	15x40	465.50	1017.50	1.3	0.9	0	0.3	0.2	0
P13	15x40	613.50	1017.50	3.8	3.1	200	0	0.5	0
P14	15x40	882.50	1017.50	1.7	1.5	100	0	0.2	0
P15	15x40	465.50	880.00	0.3	0.2	100	0	0.1	0
P16	15x40	227.50	880.00	0.8	0.6	100	0	0.2	0
P17	15x40	754.50	880.00	0.3	0.2	100	0	0.1	0
P18	15x40	229.50	880.00	2.0	1.7	100	0	0.2	0
P19	15x40	613.50	880.00	4.0	3.2	0	0.3	0.4	0
P20	15x40	754.50	880.00	1.3	0.9	100	0	0.2	0
P21	15x40	982.50	880.00	1.8	1.4	100	0	0.3	0
P22	15x40	1535.00	880.00	1.6	1.4	0	0.3	0.0	0
P23	15x40	228.50	880.00	3.1	2.8	100	0	0.4	0
P24	15x40	982.50	880.00	2.3	2.1	100	0	0.3	0
P25	15x40	7.50	1600.00	1.5	1.2	0	0.3	0.0	0
P26	15x40	228.50	1600.00	3.3	3.0	100	0	0.4	0
P27	15x40	982.50	1600.00	2.0	1.7	100	0	0.2	0
P28	15x40	1535.00	1600.00	1.2	1.0	0	0.2	0.0	0
P29	15x40	465.50	1535.00	0.8	0.6	100	0	0.1	0
P30	15x40	613.50	1535.00	1.2	0.7	0	0.2	0.0	0
P31	15x40	229.50	1535.00	1.6	1.5	100	0	0.3	0
P32	15x40	613.50	7.50	3.2	3.1	300	0	0.2	0
P33	15x40	880.00	7.50	1.4	1.2	100	0	0.1	0

Os valores indicados nesta tabela são os valores máximos obtidos para as combinações de cargas nas combinações de cargas para as fundações. Para maiores informações, consulte o projeto de fundações e o projeto de estruturas, que apresentam os valores indicados para cada combinação.

Coordenadas		Comprimento no eixo X		Comprimento no eixo Y	
Nome	Comprimento (m)	Nome	Comprimento (m)	Nome	Comprimento (m)
P1, P5, P6, P23, P29	7.50	P2, P3, P4	1707.50	P7, P8, P9	1100.00
P29	1535.00	P10, P11, P12, P13	1535.00	P14, P15, P16	1535.00
P17, P18, P24, P27, P30	227.50	P19, P20, P21, P22	982.50	P25, P26, P27, P28	1017.50
P31, P32	613.50	P33	880.00	P34, P35	880.00
P36, P37, P38, P39	754.50	P40, P41, P42, P43	982.50	P44, P45, P46, P47	1535.00
P48, P49, P50, P51, P52	1535.00	P53, P54, P55	1535.00	P56, P57, P58	1535.00
P59, P60, P61, P62	1535.00	P63, P64, P65	1535.00	P66, P67, P68	1535.00
P69, P70, P71, P72, P73	1535.00	P74, P75, P76, P77, P78	1535.00	P79, P80, P81, P82	1535.00



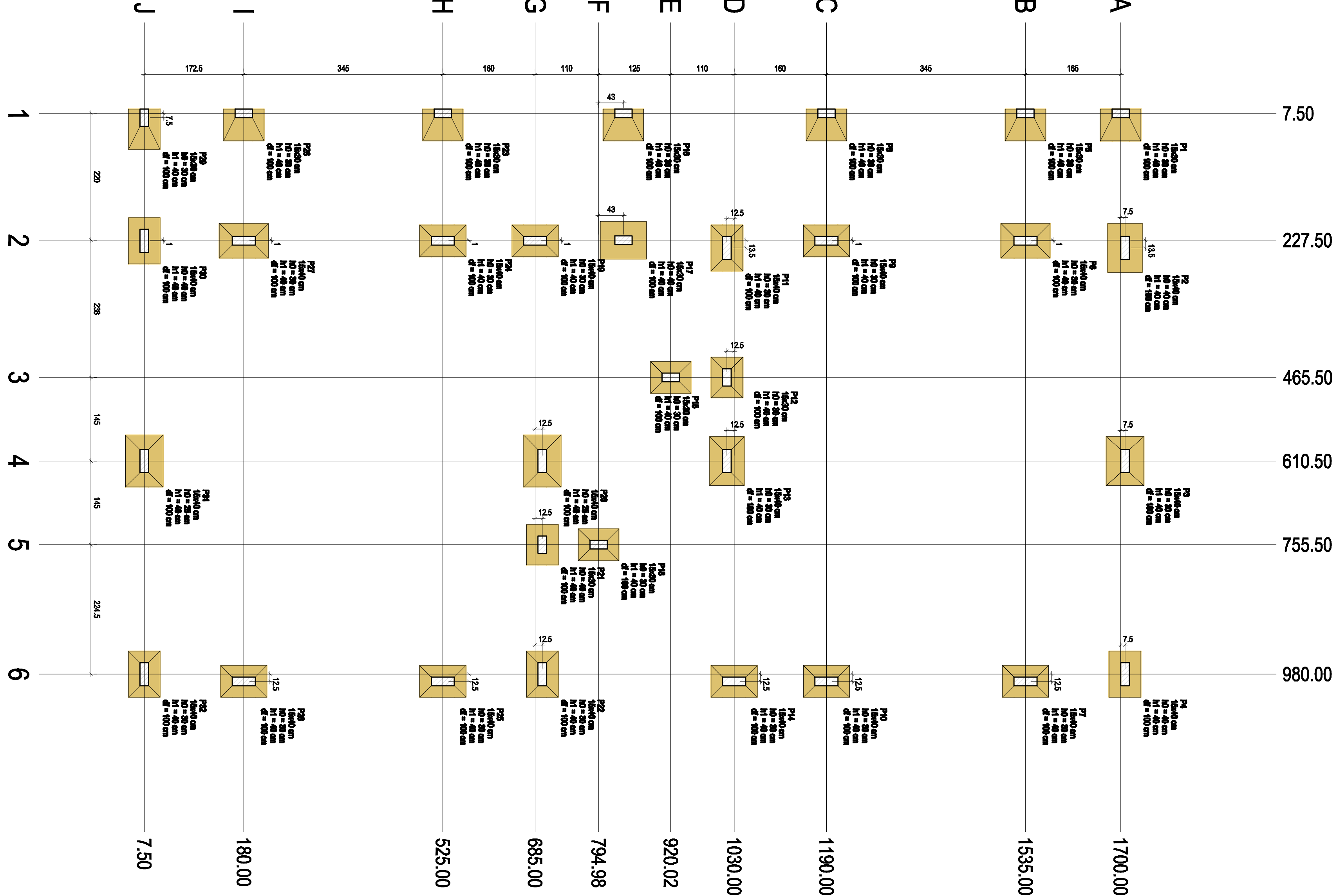
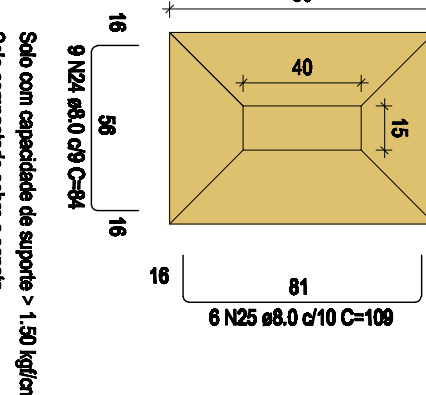
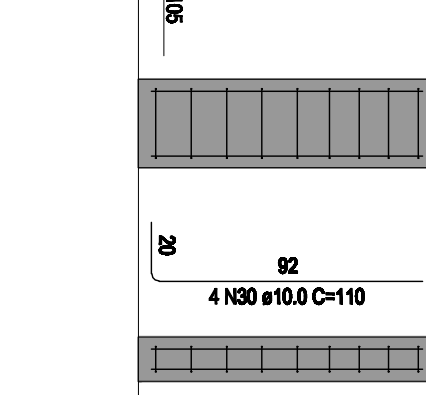
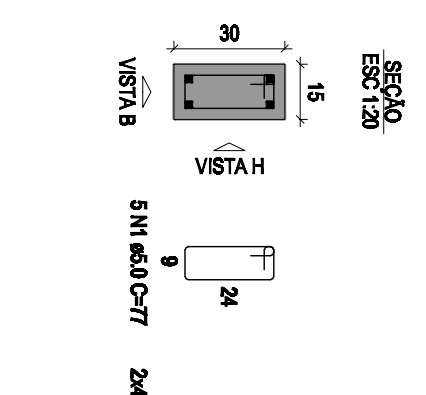
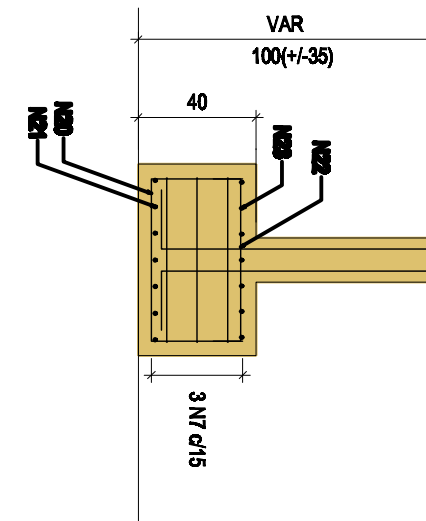
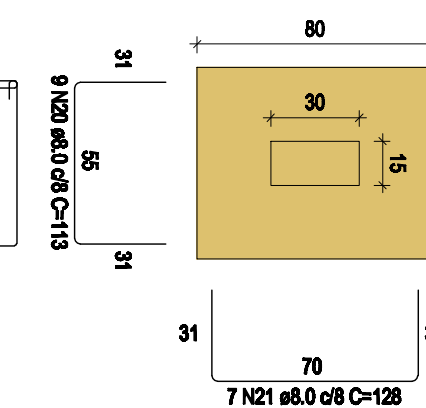
S17

PLANTA

ESC: 1/25

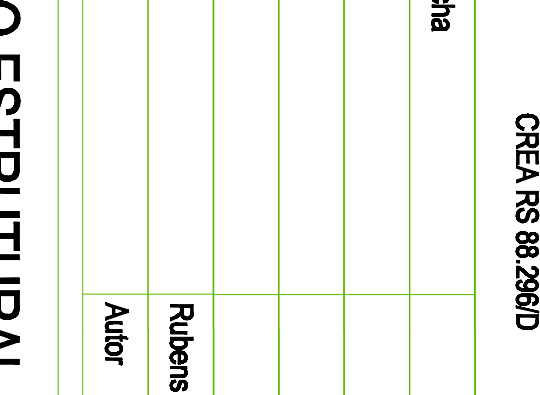
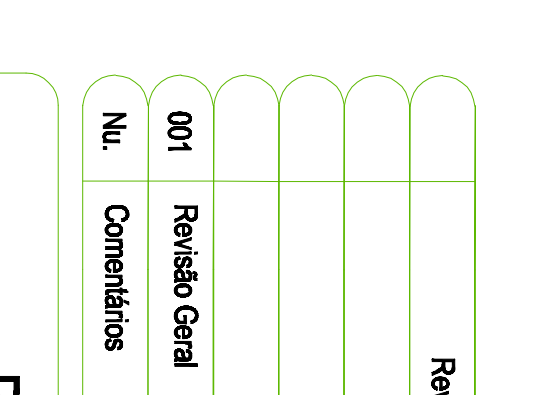
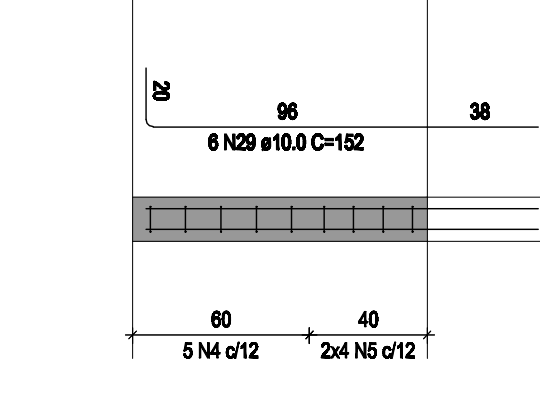
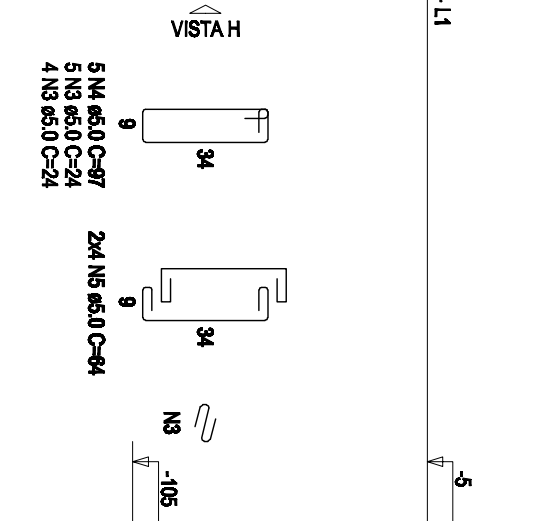
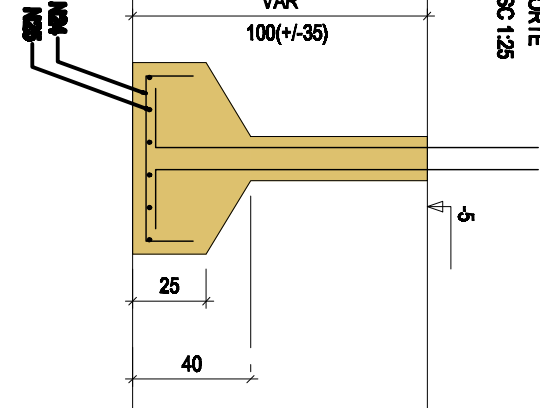
CORTE

ESC: 1/25



PLANTA DE LOCALIZAÇÃO

Escala: 1/50



RUBENS L. R. SOUZA
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RUA PADRE CIRILO LOTE 14 QUADRA 82 SETOR 8E CAPANEMA
Desenho: Eng. Rubens
Data: 26/03/2025
Área: 171,50 m²
Unidade: cm

Escala: 01/50
Projeto: 01/11

PREFEITURA MUNICIPAL DE CAPANEMA

AMPLIAÇÃO EM ALVENARIA CEMEI - PRIMO DE GENTE
DETALHE SAPATAS

Nº	Revisão	Comentários	Autor	Data
001	Revisão Geral		Rubens	26/03/2025

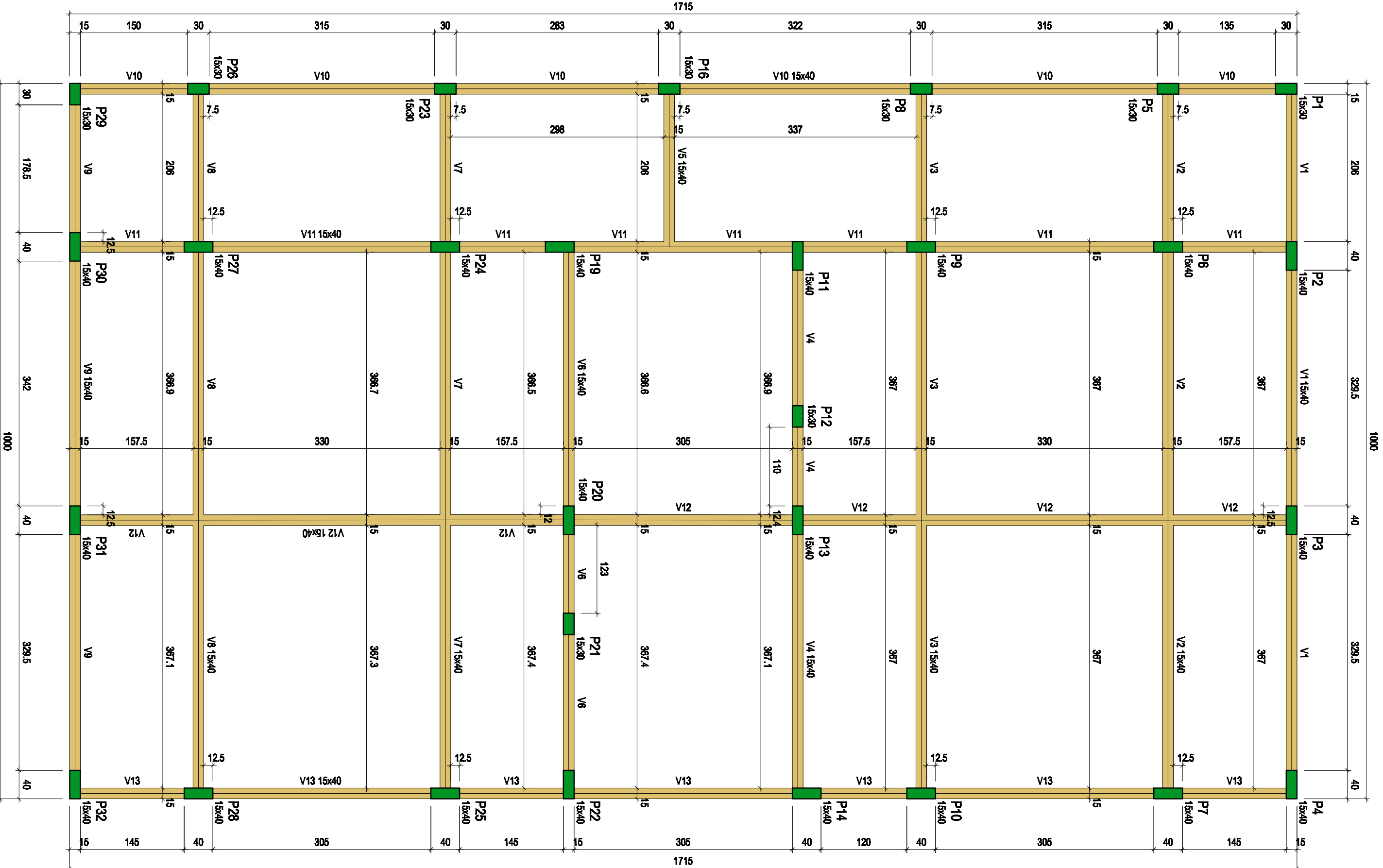
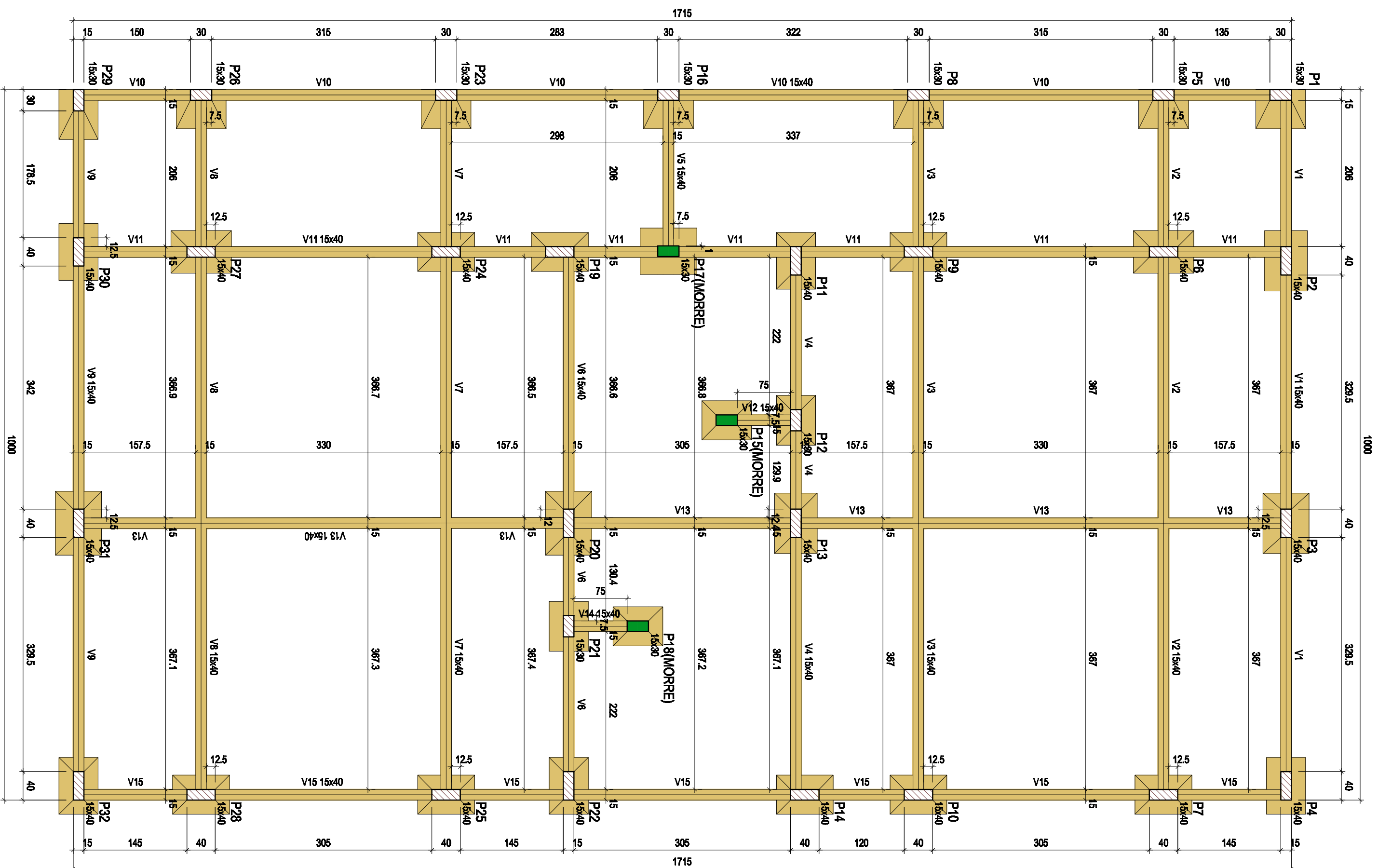
RUBENS LUIS
por RUBENS LUIS
SOUZA-5133588
3053
RUBENS LUIS ROLANDO SOUZA
ENGENHEIRO CIVIL
CREA RS 88.286/D

	Vigas		
	Norma	Seção (cm)	Elongação (cm)
V1	15x40	0	-5
V2	15x40	0	-5
V3	15x40	0	-5
V4	15x40	0	-5
V5	15x40	0	-5
V6	15x40	0	-5
V7	15x40	0	-5
V8	15x40	0	-5
V9	15x40	0	-5
V10	15x40	0	-5
V11	15x40	0	-5
V12	15x40	0	-5
V13	15x40	0	-5
V14	15x40	0	-5
V15	15x40	0	-5

Características dos materiais	
tek	Ecs
(kgf/cm ²)	(kgf/cm ²)
250	241500

Dimensão máxima do agropado = 19 mm

Nome	Socio	Puntaggi	
		Esordio (m)	Finale (m)
P1	15:40	0	0
P2	15:40	0	0
P3	15:40	0	0
P4	15:40	0	0
P5	15:40	0	0
P6	15:40	0	0
P7	15:40	0	0
P8	15:40	0	0
P9	15:40	0	0
P10	15:40	0	0
P11	15:40	0	0
P12	15:40	0	0
P13	15:40	0	0
P14	15:40	0	0
P15	15:40	0	0
P16	15:40	0	0
P17	15:40	0	0
P18	15:40	0	0
P19	15:40	0	0
P20	15:40	0	0
P21	15:40	0	0
P22	15:40	0	0
P23	15:40	0	0
P24	15:40	0	0
P25	15:40	0	0
P26	15:40	0	0
P27	15:40	0	0
P28	15:40	0	0
P29	15:40	0	0
P30	15:40	0	0
P31	15:40	0	0
P32	15:40	0	0

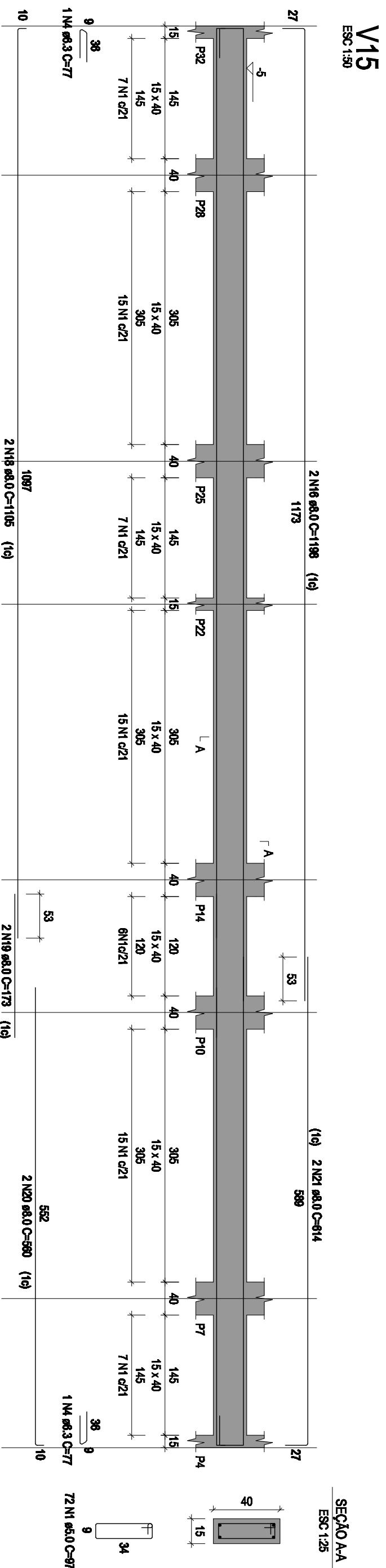
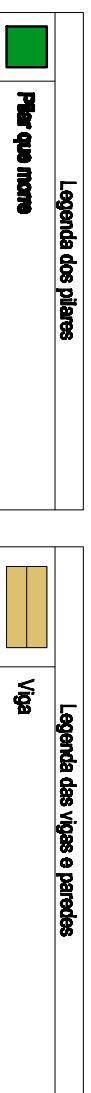


Vigas			
Nome	Soplo (cm)	Elevação (cm)	Nível (cm)
V1	15x40	0	295
V2	15x40	0	295
V3	15x40	0	295
V4	15x40	0	295
V5	15x40	0	295
V6	15x40	0	295
V7	15x40	0	295
V8	15x40	0	295
V9	15x40	0	295
V10	15x40	0	295
V11	15x40	0	295
V12	15x40	0	295
V13	15x40	0	295

Características dos materiais	
Isok	Ecos
(kg/cm ²)	(kg/cm ²)
250	241500

Dimensão máxima do agregado = 19 mm

	Nodes	Single	Example	Final
			(m)	
P1	15.00	0	0	265
P2	15.00	0	0	265
P3	15.00	0	0	265
P4	15.00	0	0	265
P5	15.00	0	0	265
P6	15.00	0	0	265
P7	15.00	0	0	265
P8	15.00	0	0	265
P9	15.00	0	0	265
P10	15.00	0	0	265
P11	15.00	0	0	265
P12	15.00	0	0	265
P13	15.00	0	0	265
P14	15.00	0	0	265
P15	15.00	0	0	265
P16	15.00	0	0	265
P17	15.00	0	0	265
P18	15.00	0	0	265
P19	15.00	0	0	265
P20	15.00	0	0	265
P21	15.00	0	0	265
P22	15.00	0	0	265
P23	15.00	0	0	265
P24	15.00	0	0	265
P25	15.00	0	0	265
P26	15.00	0	0	265
P27	15.00	0	0	265
P28	15.00	0	0	265
P29	15.00	0	0	265
P30	15.00	0	0	265
P31	15.00	0	0	265
P32	15.00	0	0	265



Revisões da Prancha

001	Revisão Geral	Rubens	26/03/2025
Nu.	Comentários	Autor	Data

PROJETO ESTRUTURAL

PREFEITURA MUNICIPAL DE CAPANEMA

AMPLIAÇÃO EM ALVENARIA CEMEI - PINGO DE GENTE
FORMA DO BALDRAME
FORMA DA COBERTURA

FORMA DA COBERTURA

COBERTURA

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Planalto-PR (046)35551186
rubensluiz@globomail.com

Desenho: Eng Rubens **Área: 171,50 m2**

Desenho: Eng Rubens **Área: 171,50 m2**

Desenho: Eng Rubens **Área: 171,50 m2**

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Desenho: Eng Rubens **Área: 171,50 m2**

Desenho: Eng Rubens **Área: 171,50 m2**

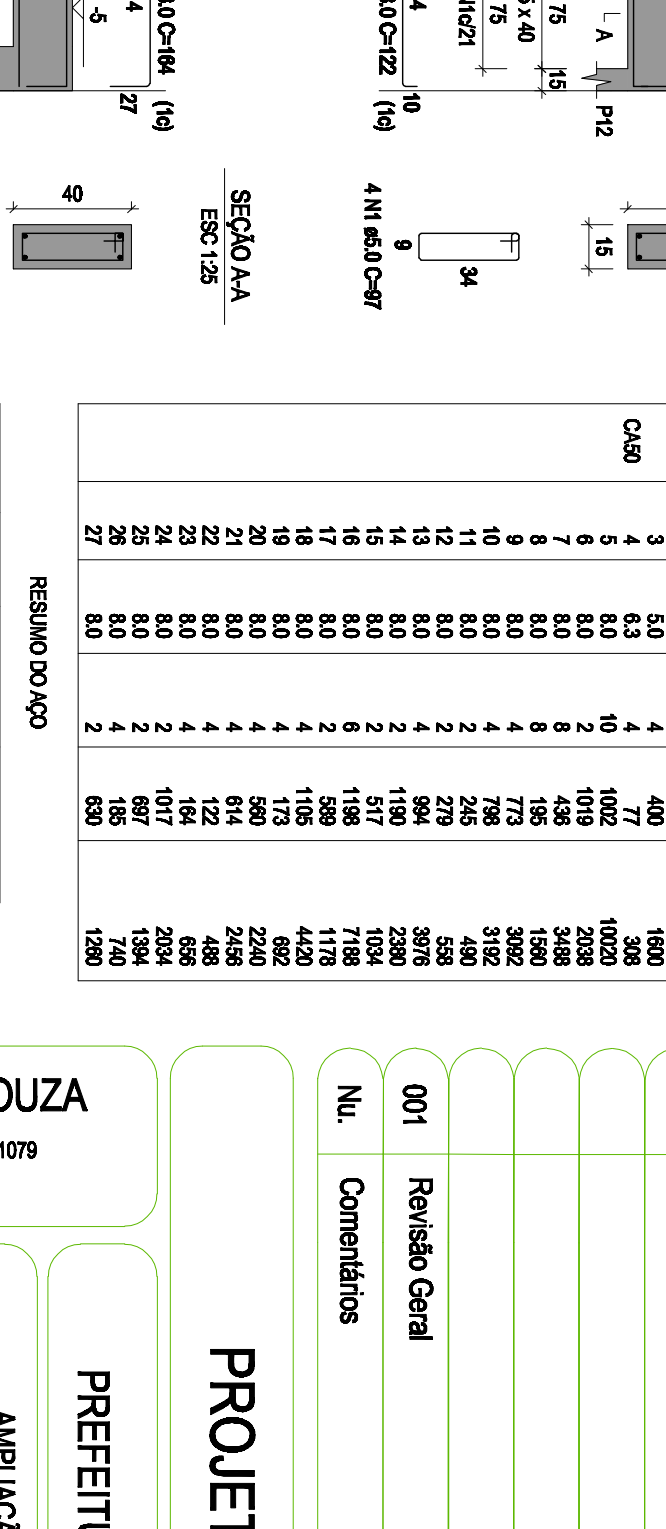
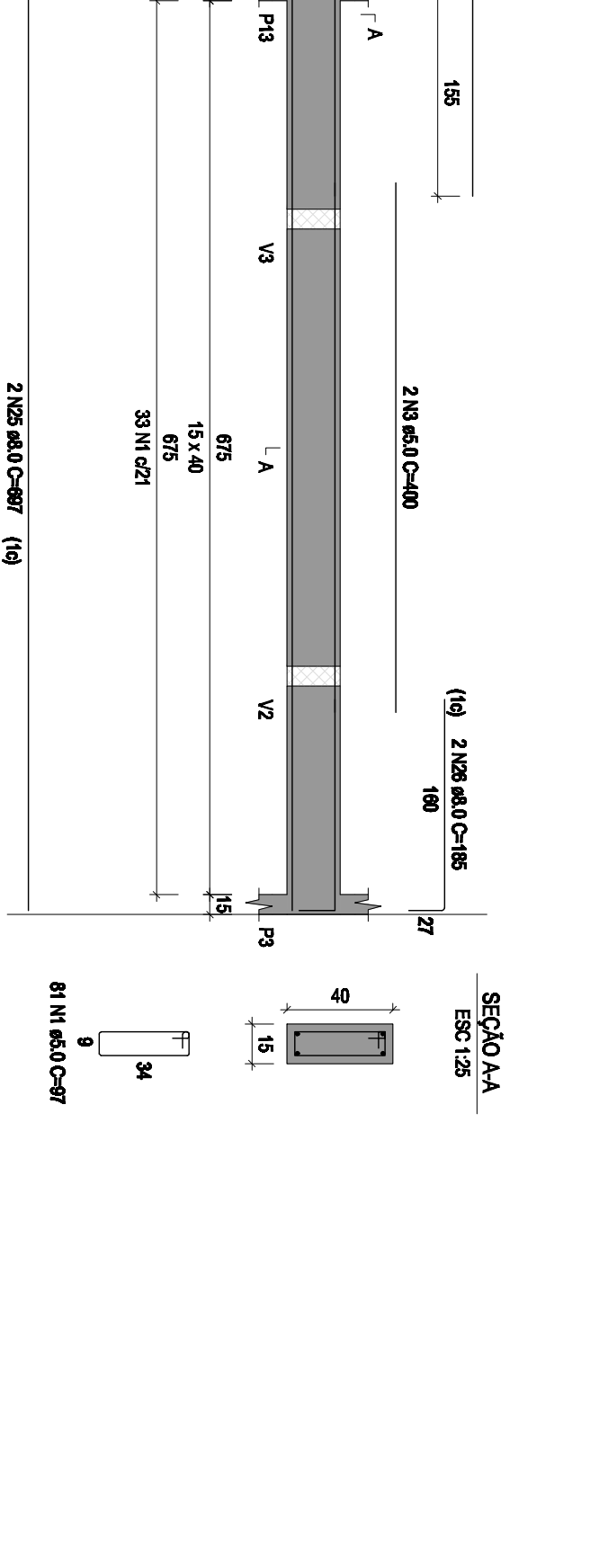
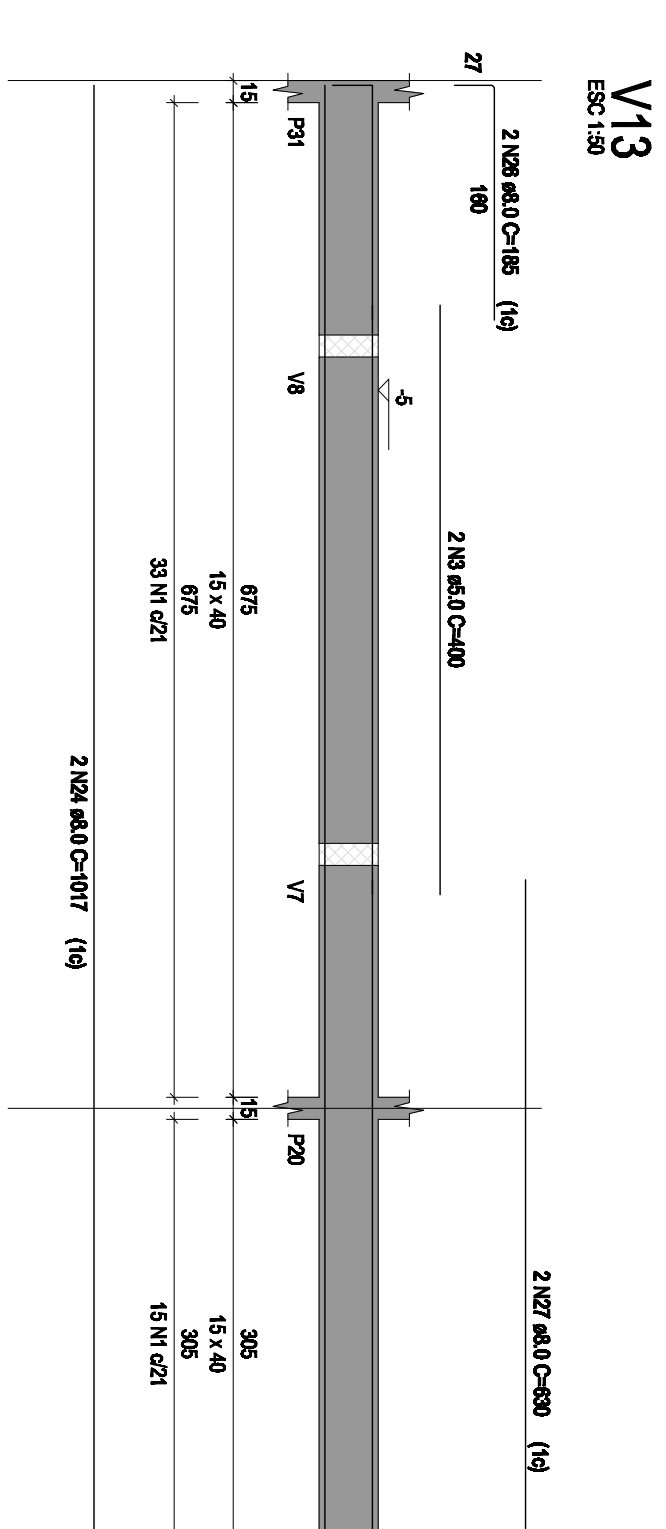
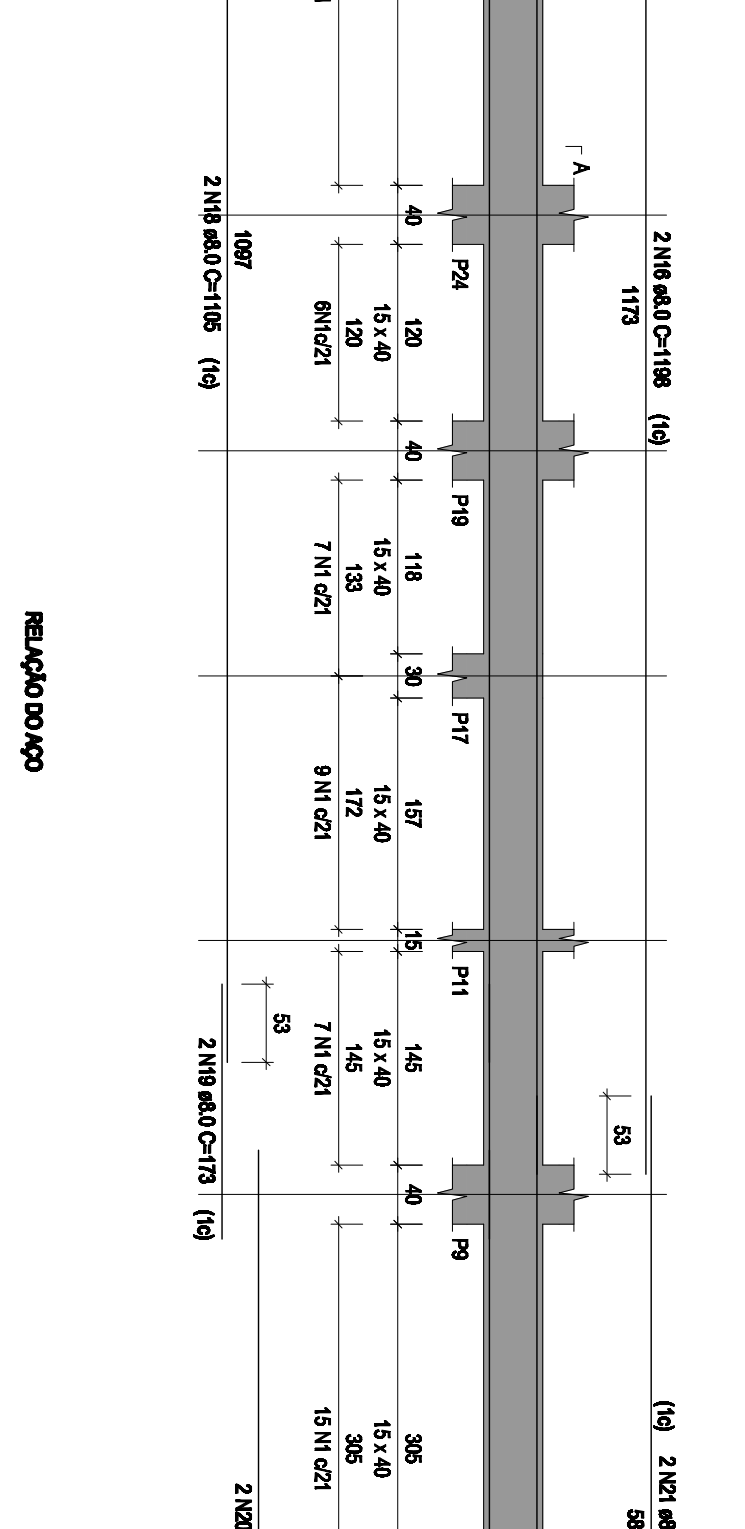
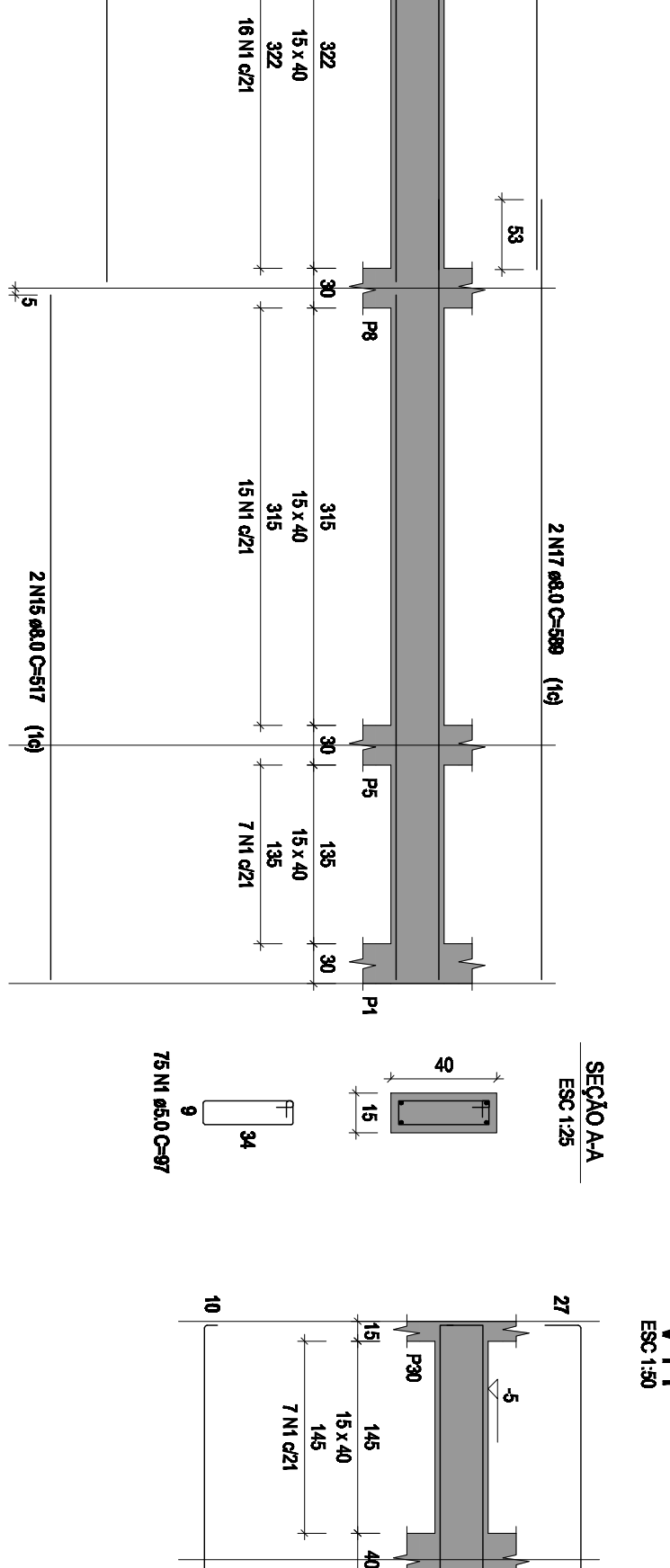
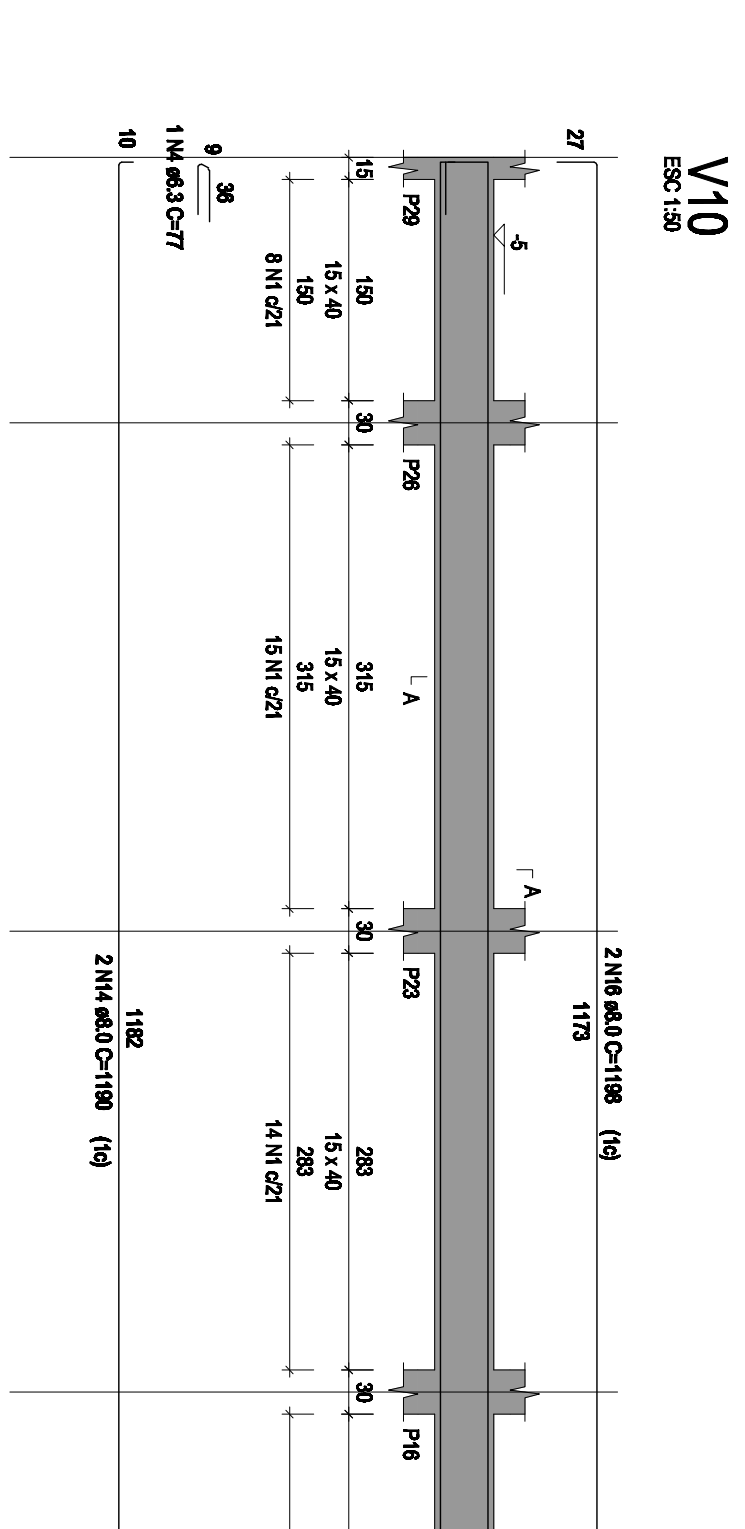
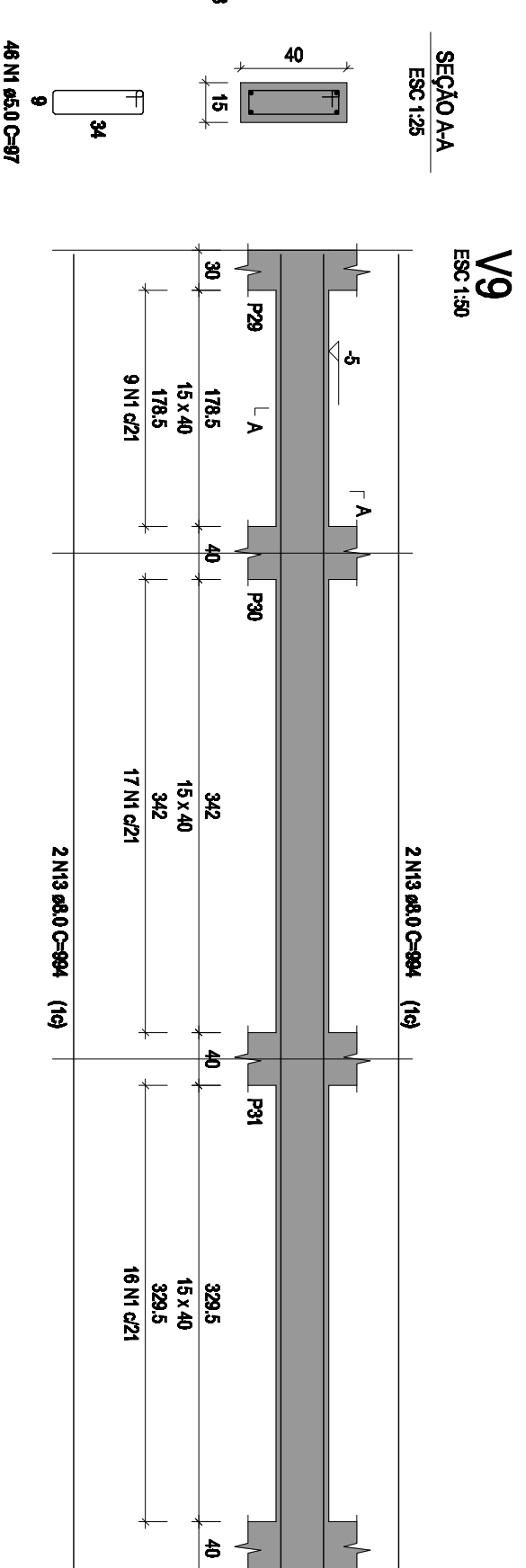
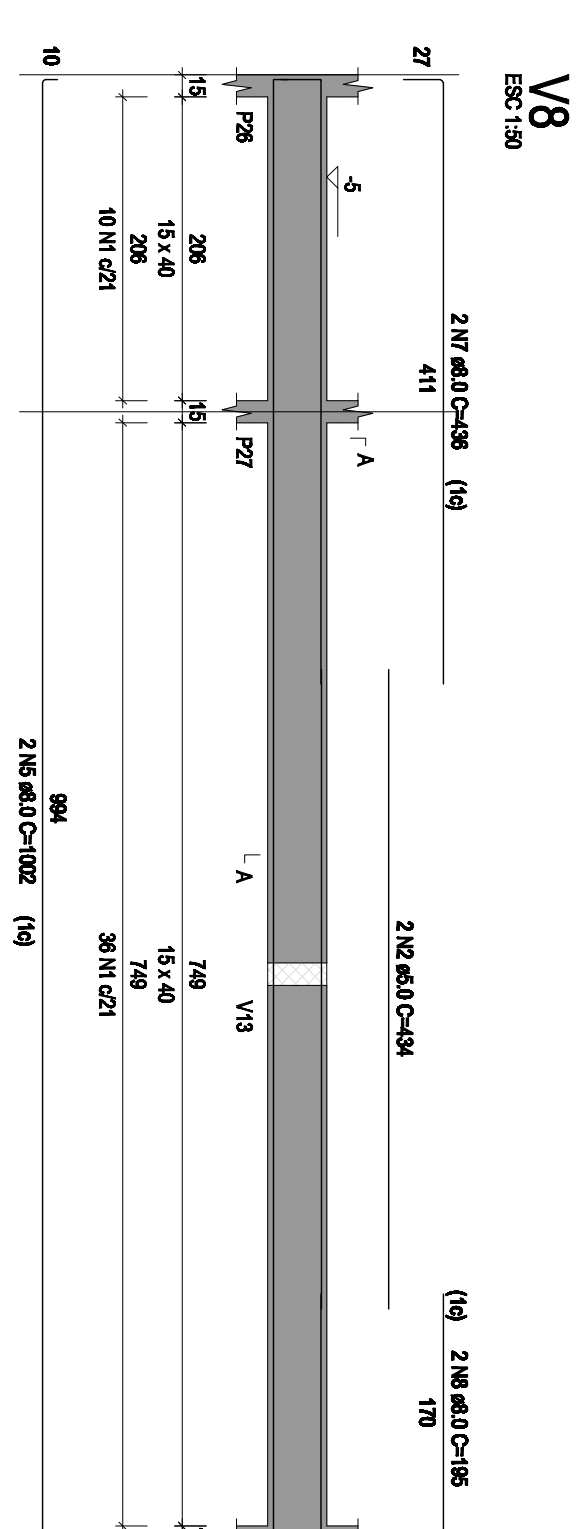
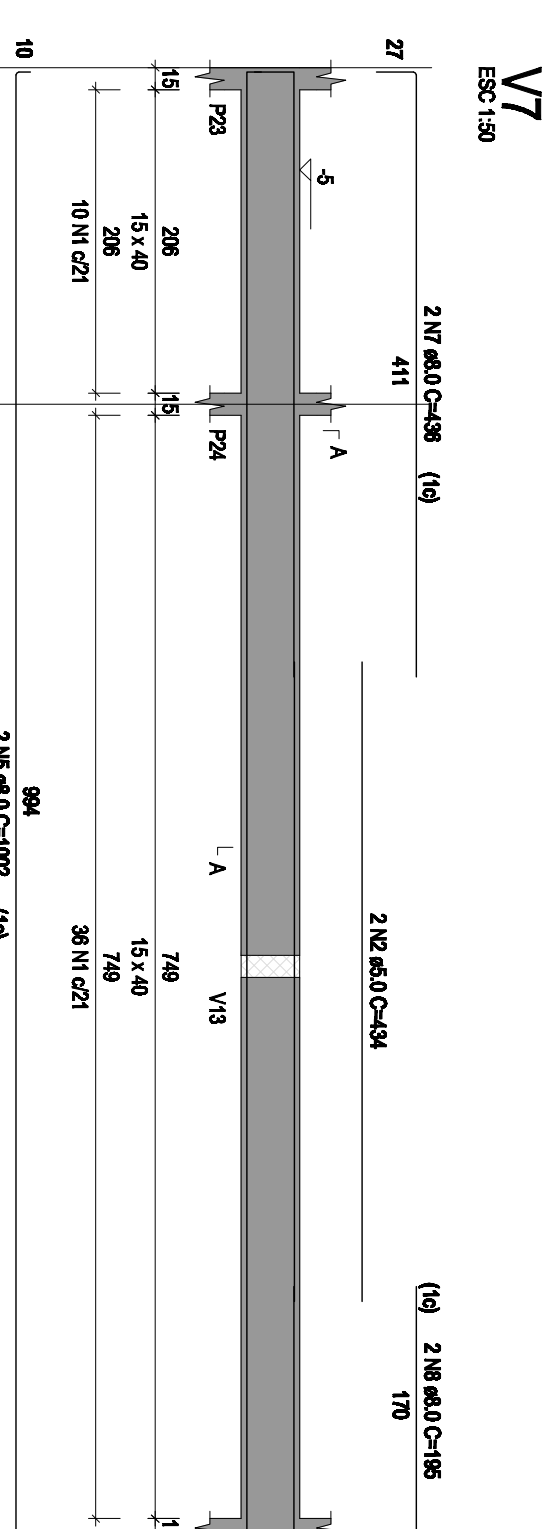
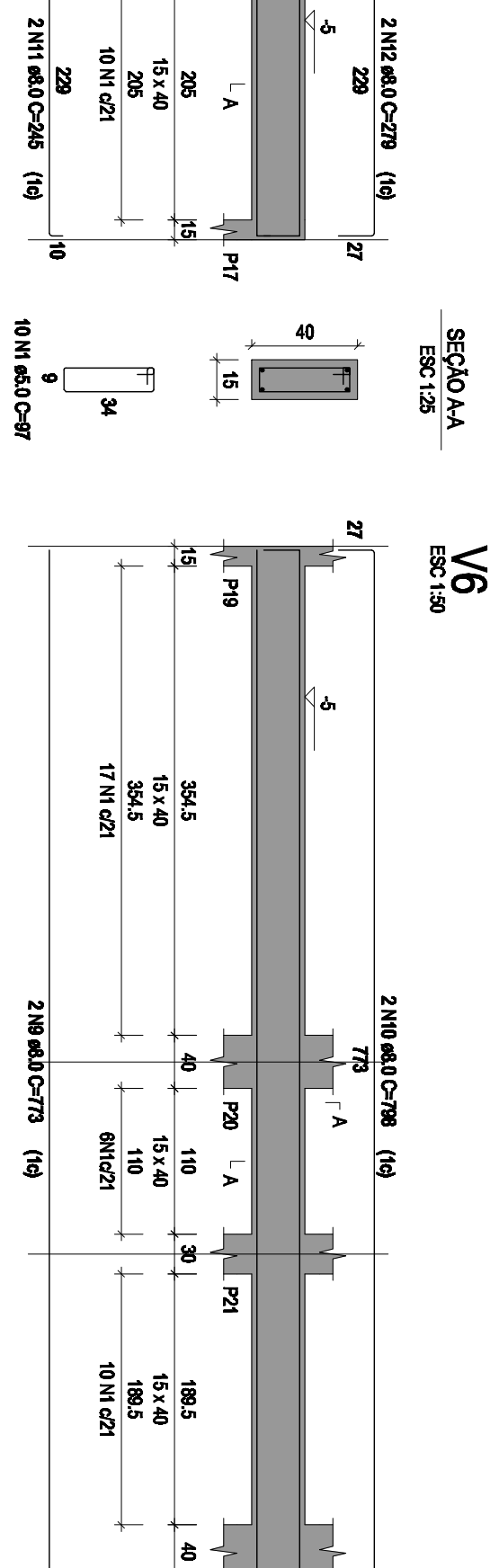
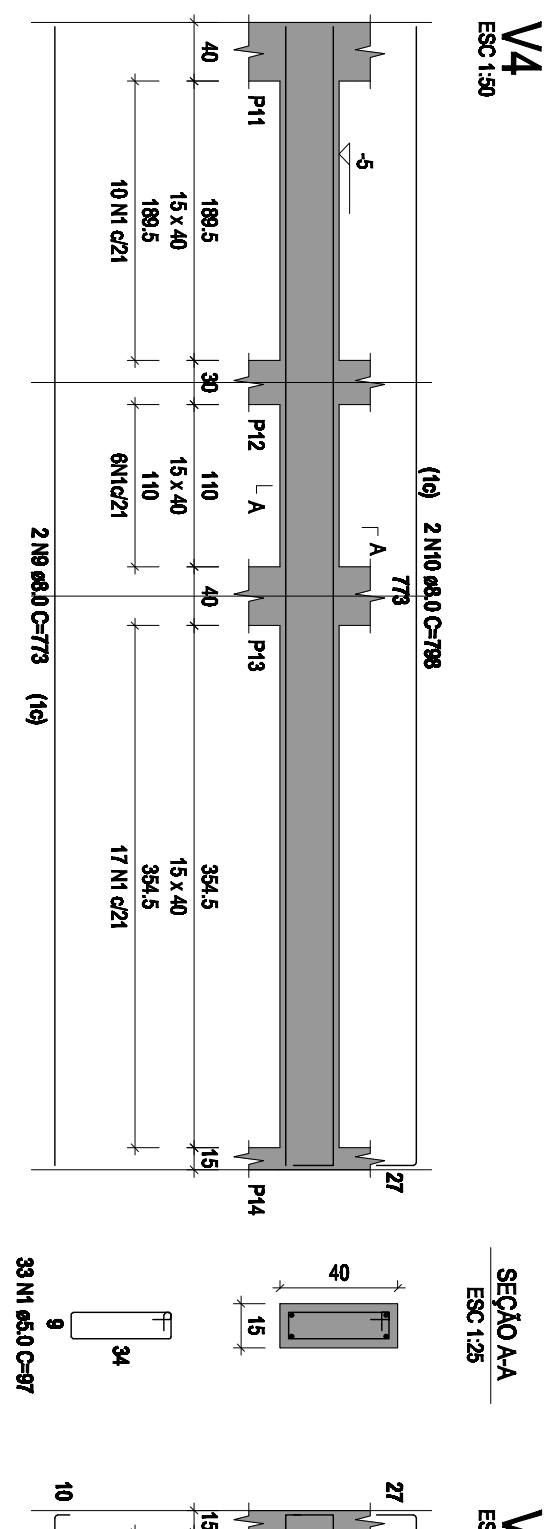
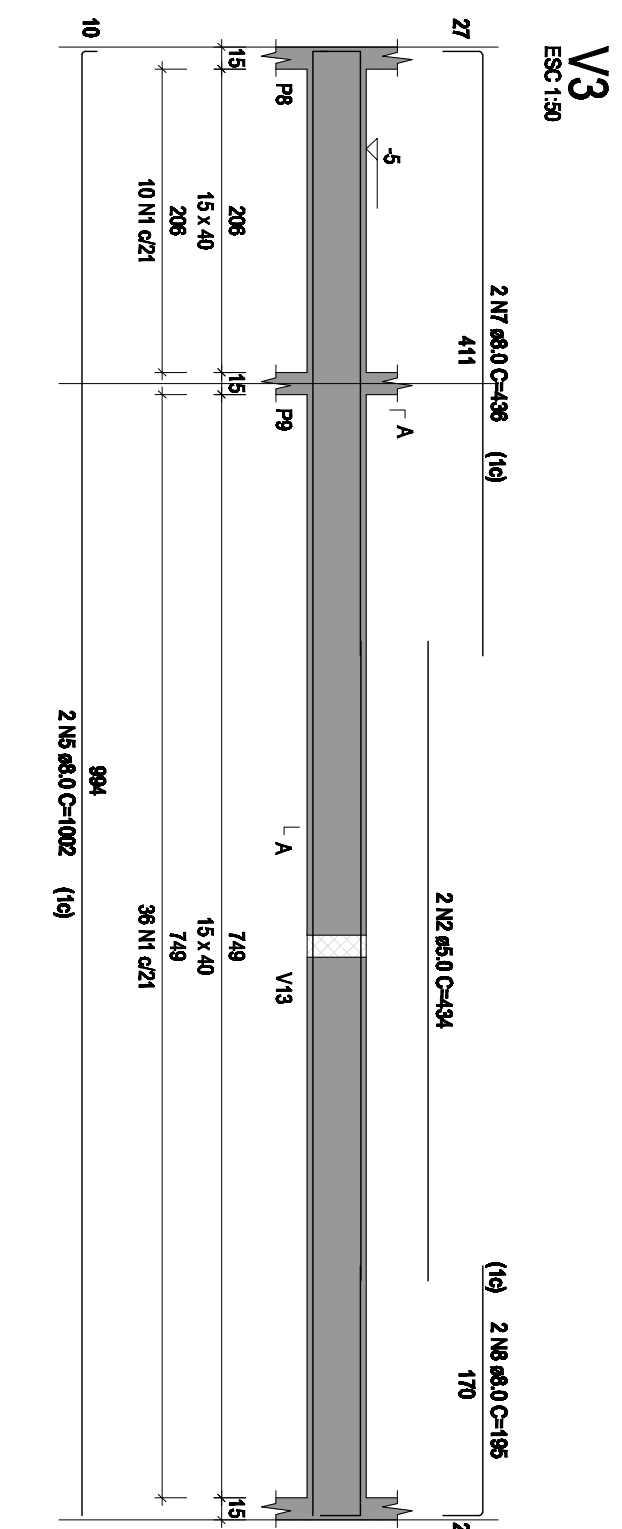
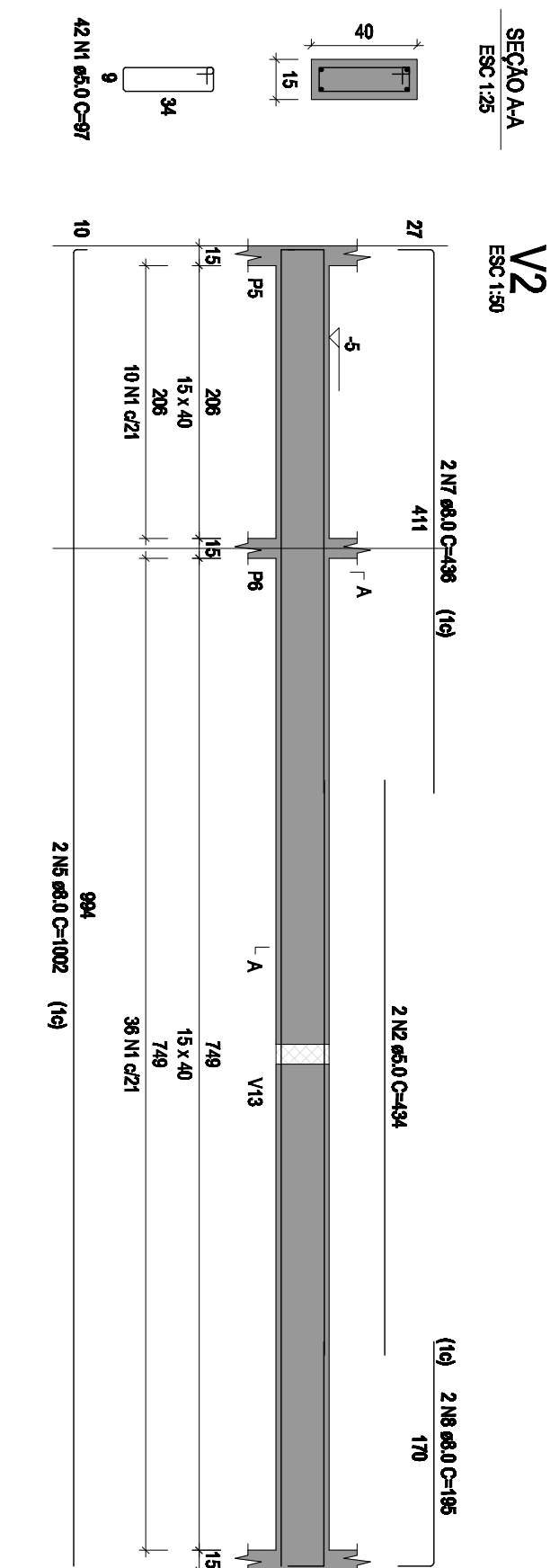
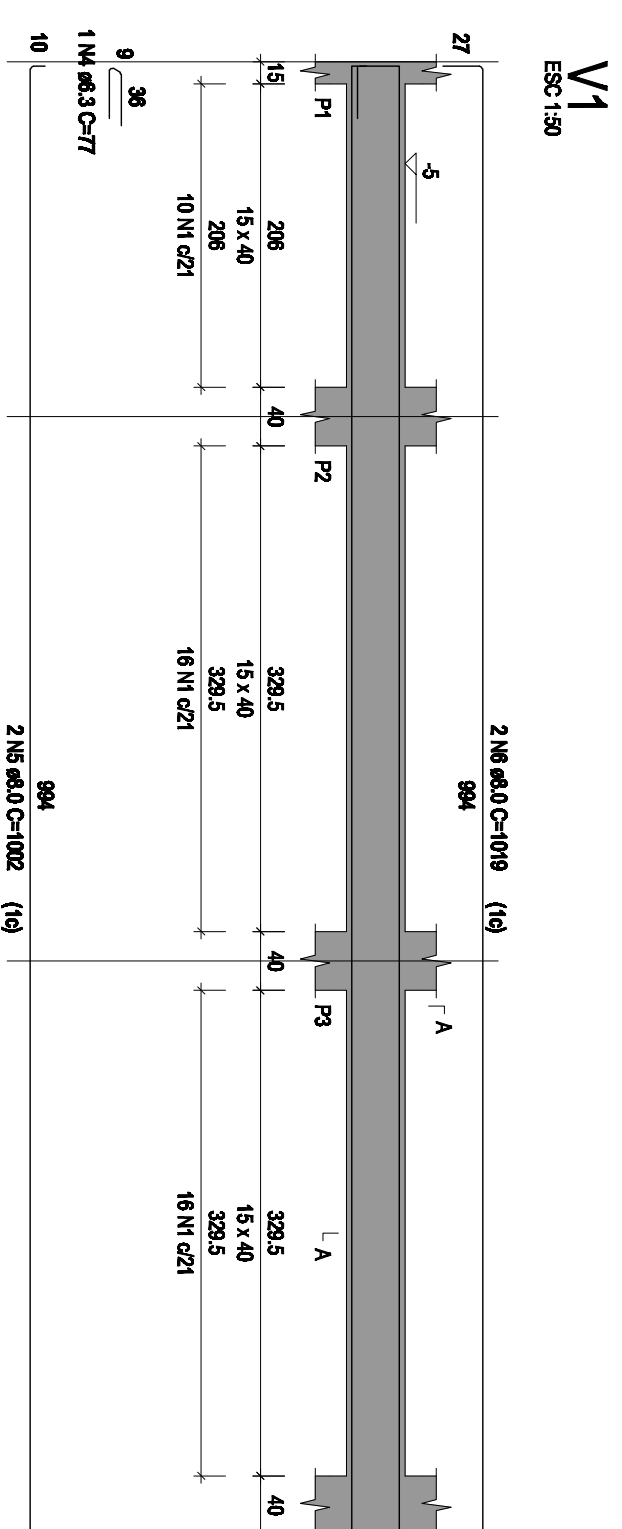
Desenho: Eng Rubens **Área: 171,50 m2**

RUBENS LUIS ROLANDO SOUZA
ENGENHEIRO CIVIL
CREA-RS 88.296/D

RUBENS LUIS ROLANDO SOUZA
ENGENHEIRO CIVIL
CREA-RS 88.296/D

RUBENS LUIS ROLANDO SOUZA
ENGENHEIRO CIVIL
CREA-RS 88.296/D

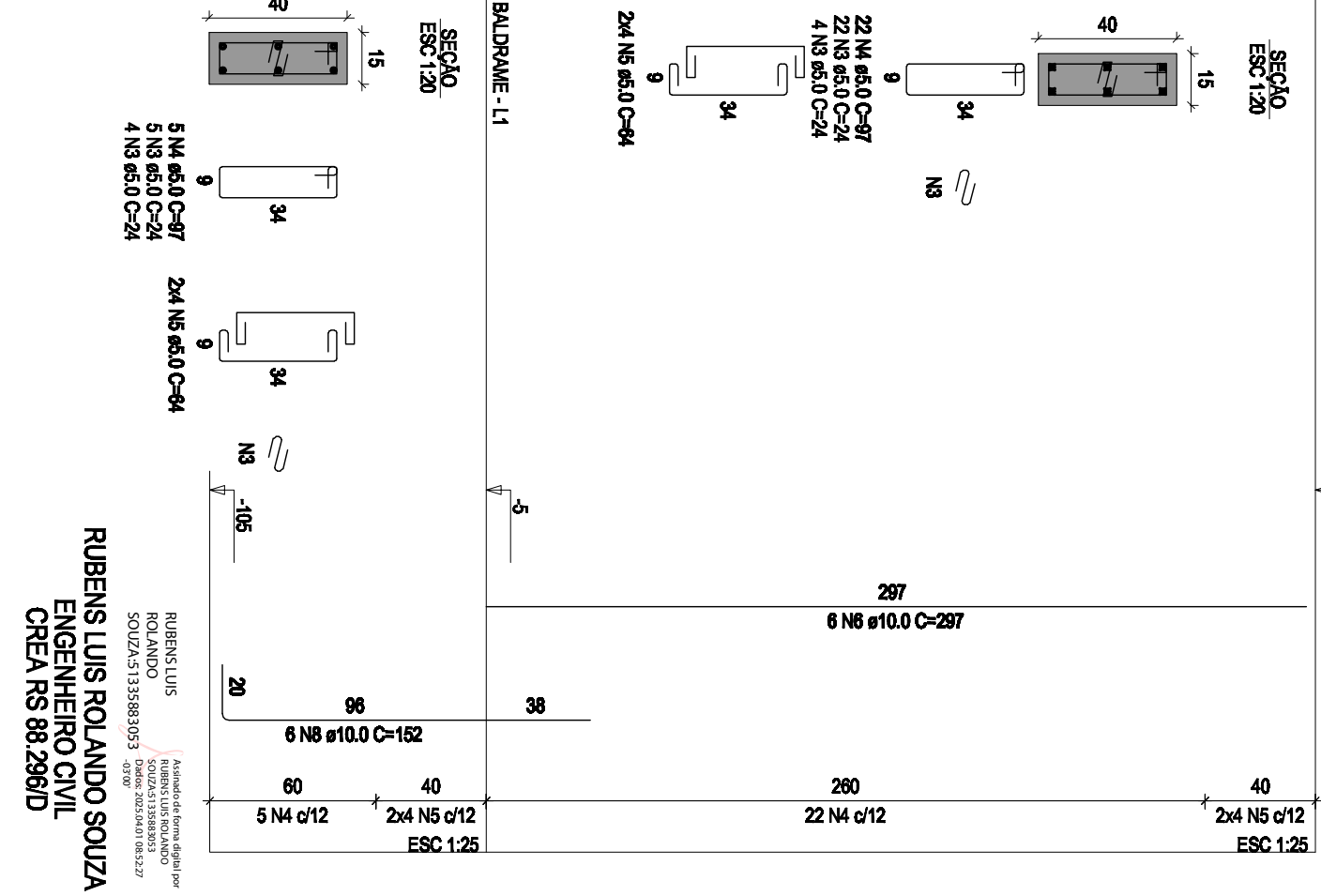
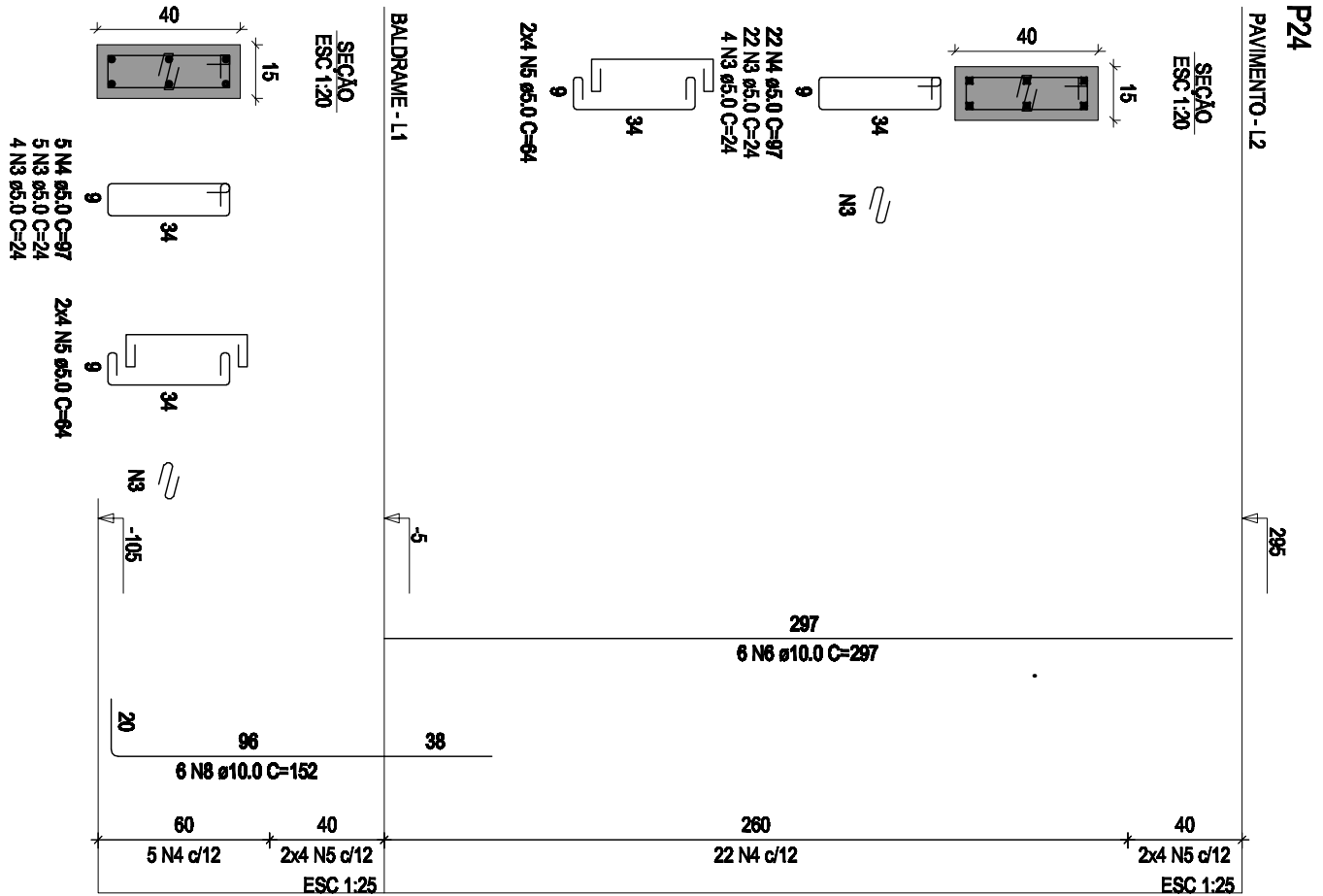
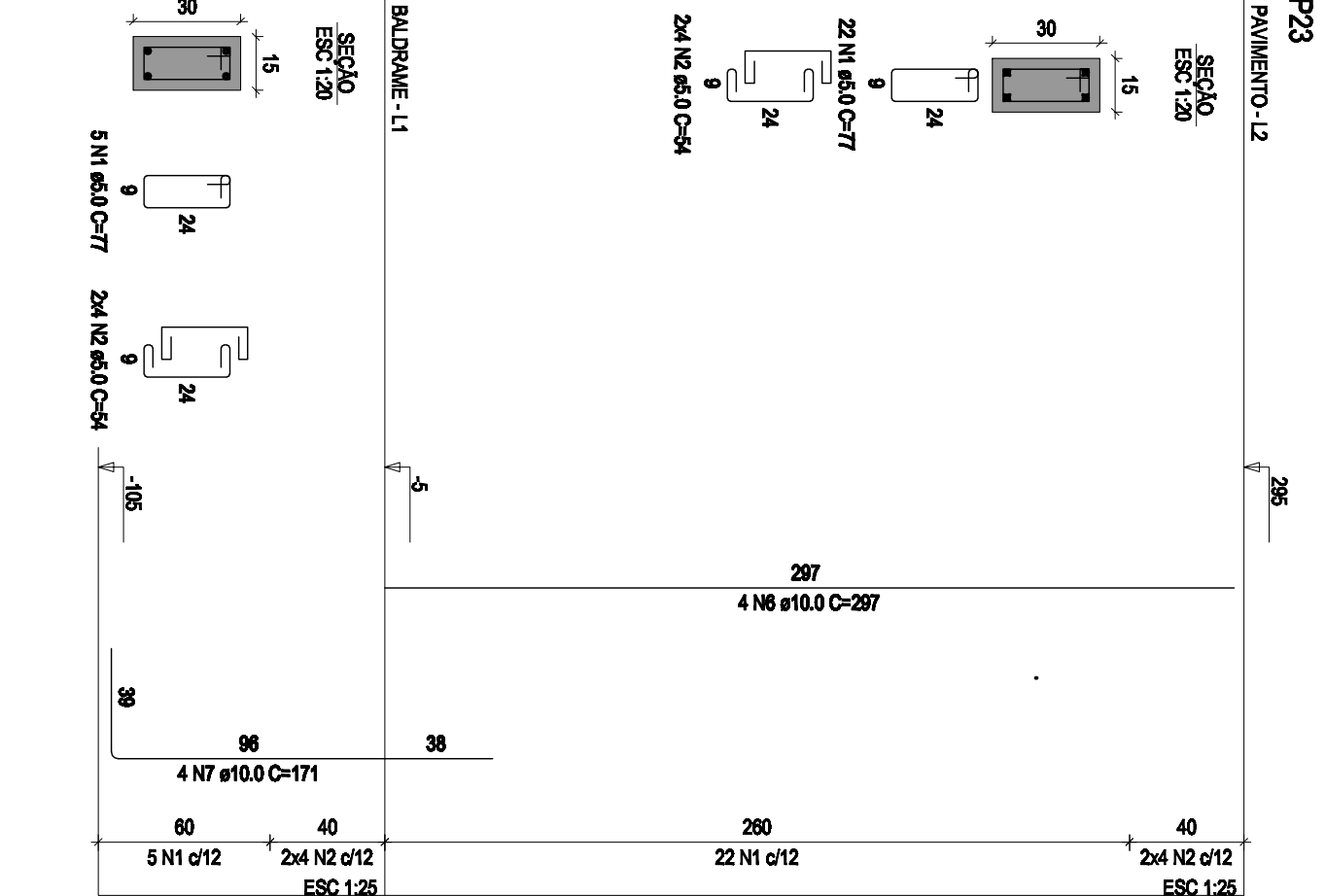
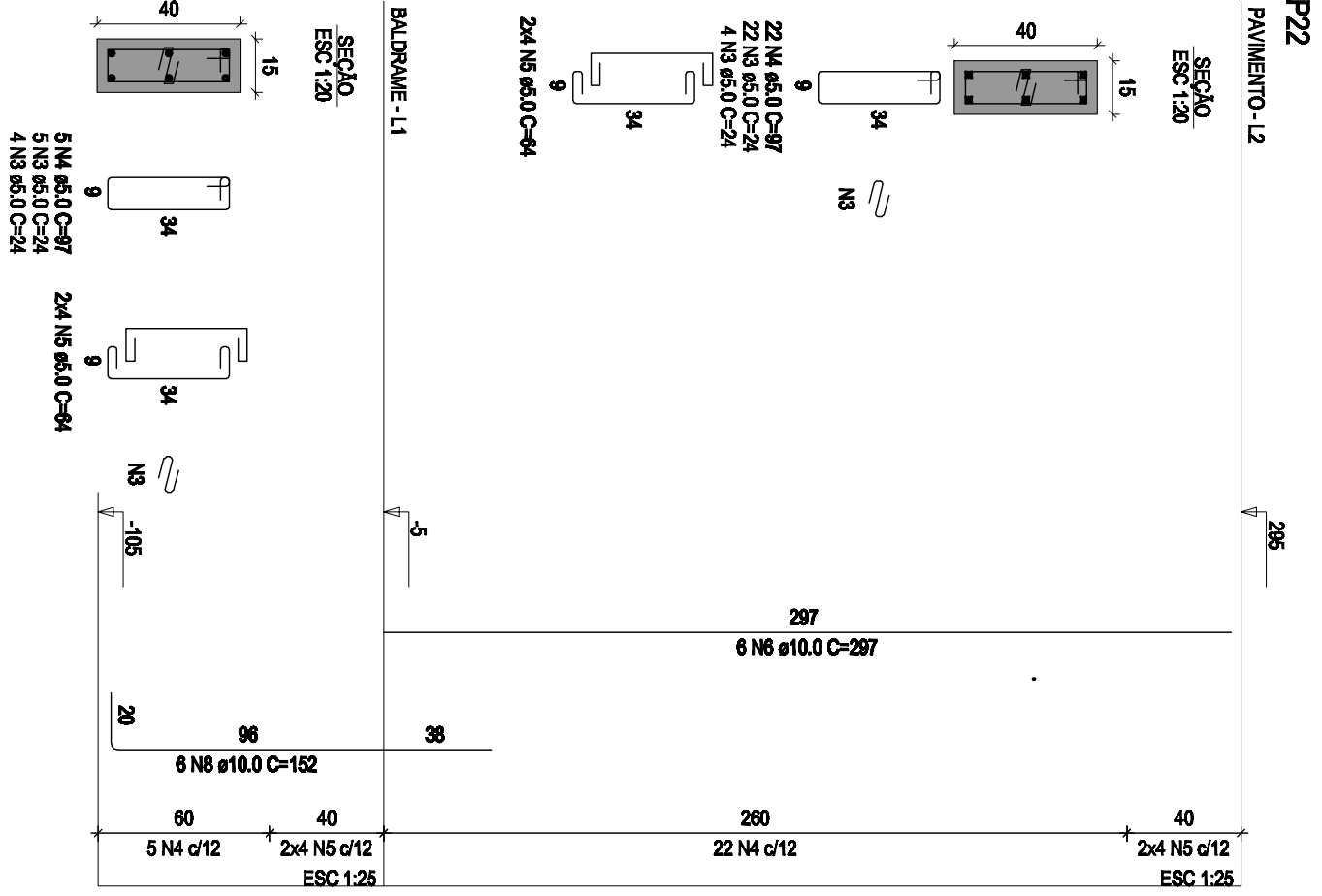
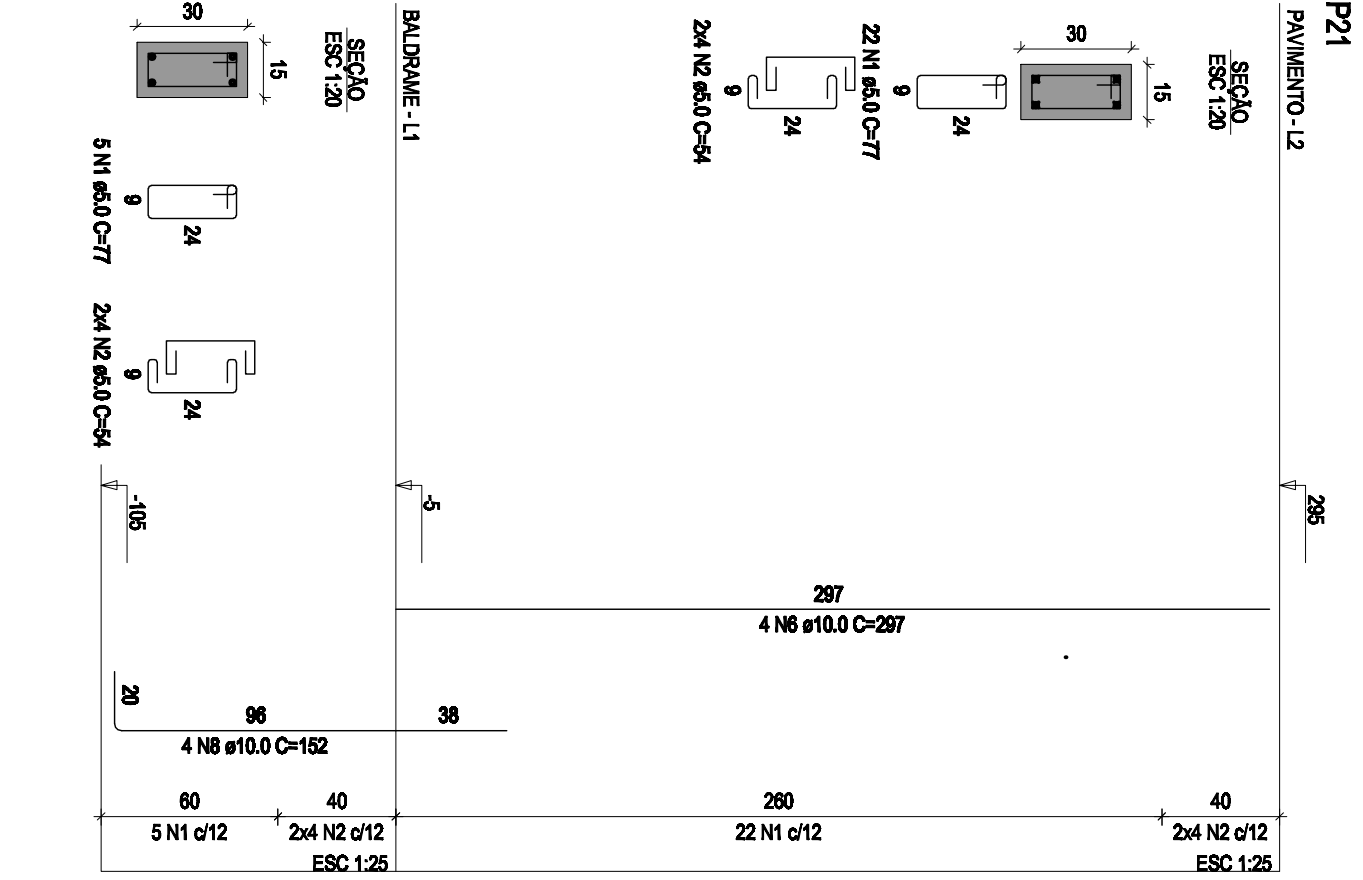
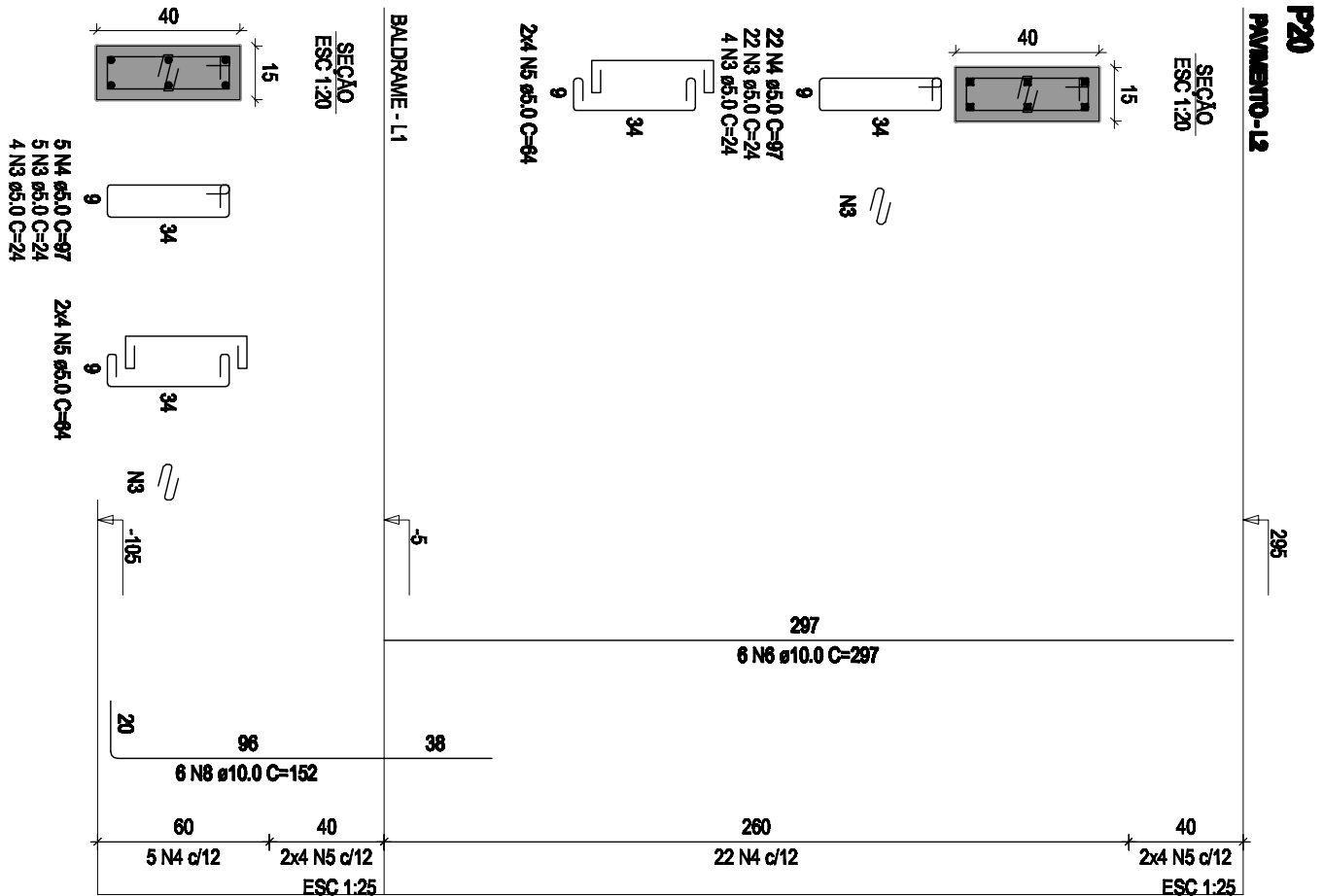
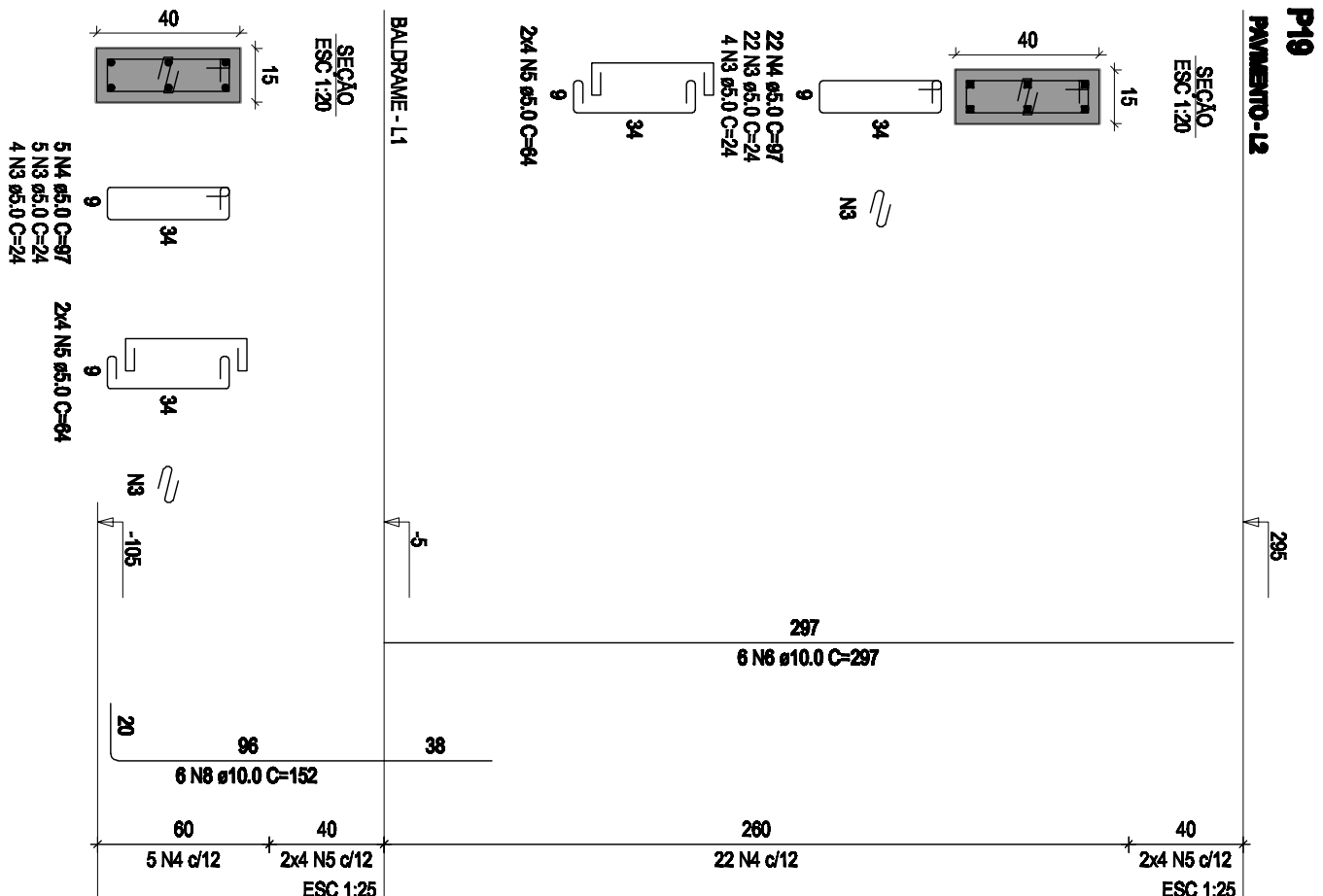
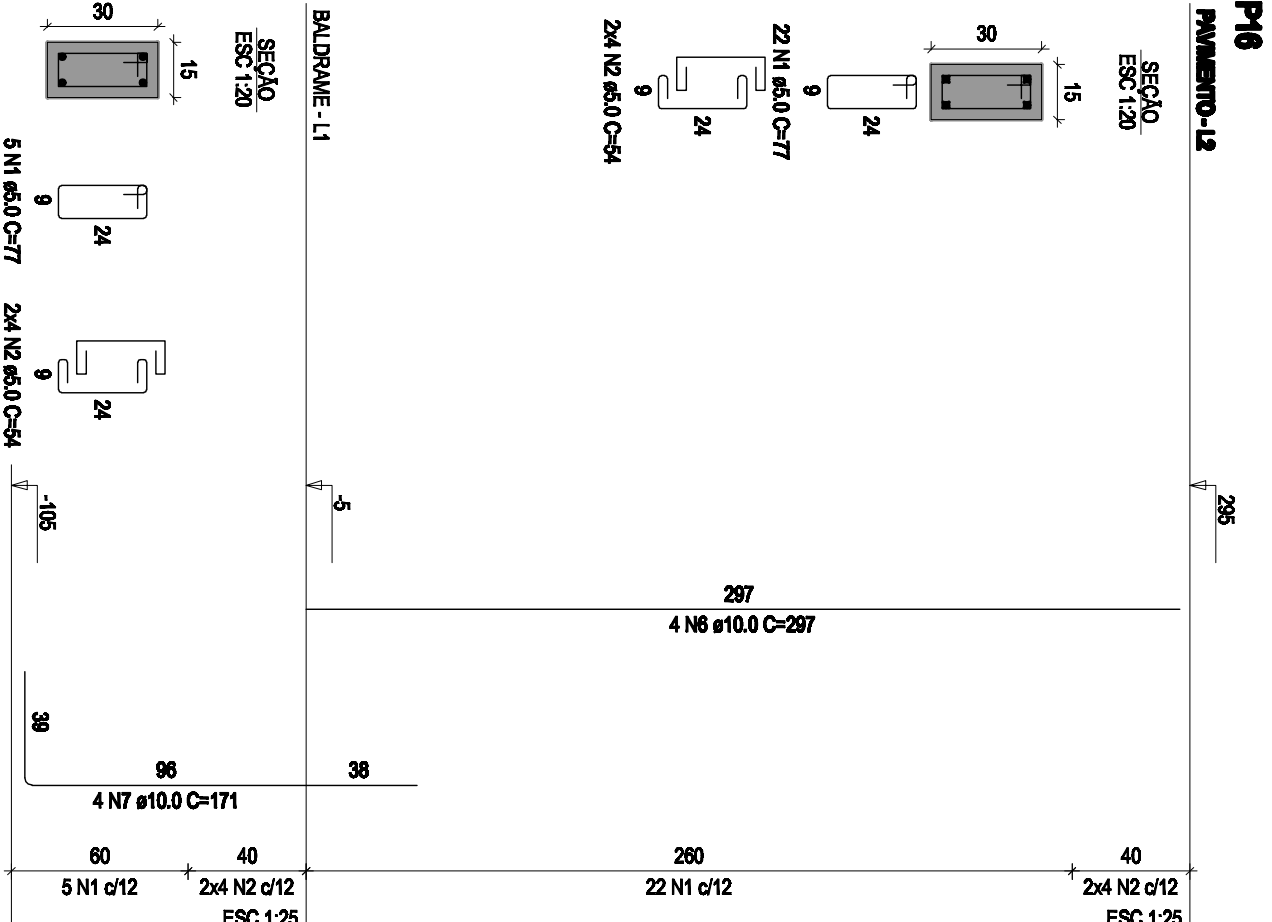
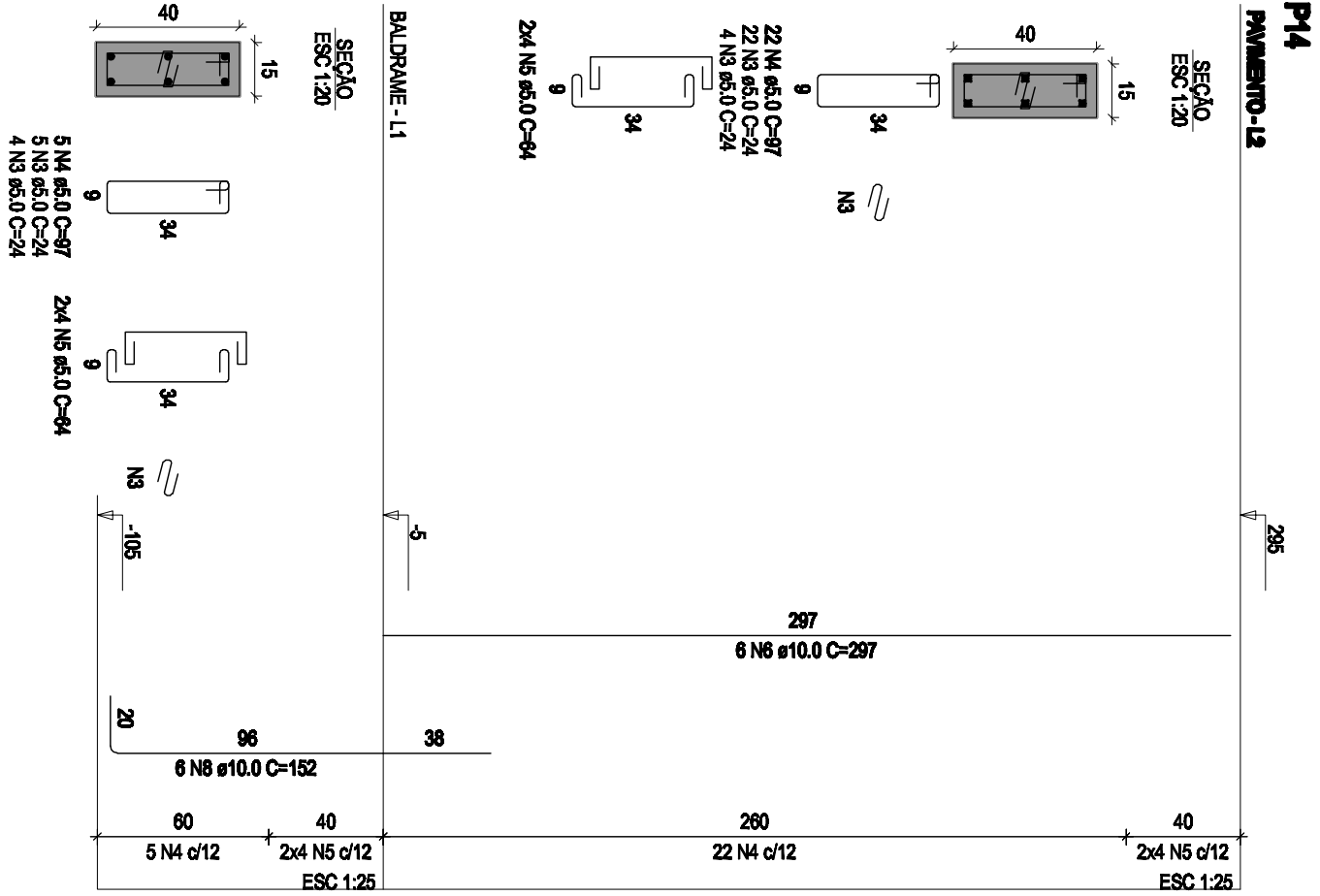
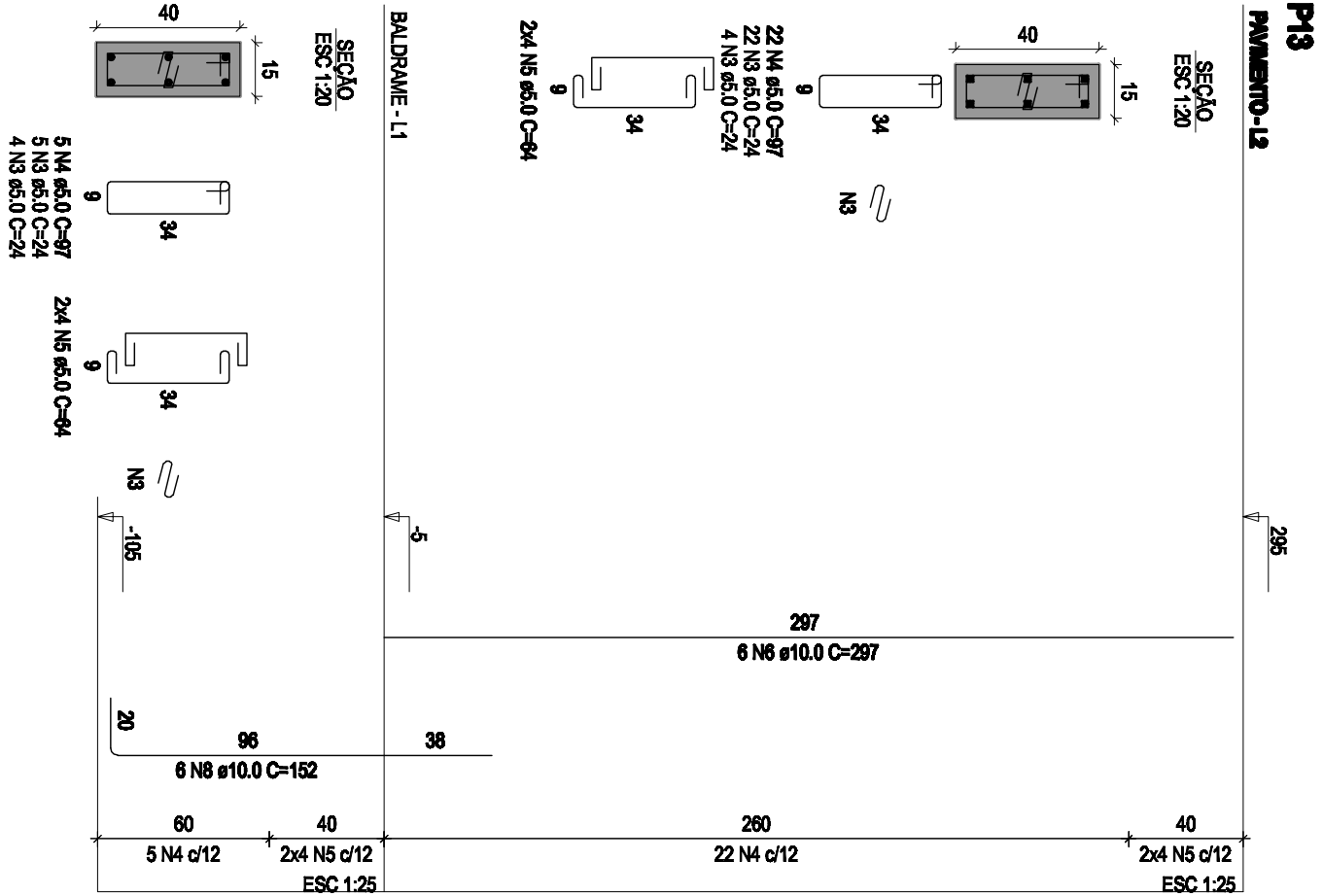
RUBENS LUIS ROLANDO SOUZA
ENGENHEIRO CIVIL
CREA-RS 88.296/D



RELATÓRIO DO ADO					
ADO	N	DAM	QUANT	CUMUL	C.TOTAL
V1	12			V3	
V4	V5			V6	
V6	V7			V12	
V3	V4			V15	

Revisões da Prancha			
001	Revisão Geral	Rubens	28/03/2025
Nu.	Comentários	Autor	Data

RUBENS L. R. SOUZA	
Rua Dr Luiz Oscar Prauchner 1079 Planalto-PR (048)35561186 rubenslrs@iglobomail.com	
RUA PADRE CIRILO LOTTE A QUADRA 22 SETOR SE CAPANEMA-RS	
Desenvolvido Eng Rubens	
Data: 26/03/2025	
Unidade: cm	
Área: 171,50 m2	
Parcela	
05/11	
Escala: 01/50	
AMPLIAÇÃO EM ALVENARIA CEMEI - PINO DE GENTE DETALHE VIGAS BALDRAME	
PREFEITURA MUNICIPAL DE CAPANEMA	
PROJETO ESTRUTURAL	



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PREFEITURA MUNICIPAL DE CAPANEMA
AMPLIAÇÃO EM ALVENARIA GEHEI - PINÇO DE GENTE
PILARES EM PRUMADA

RUA PADRE CIRILO LOTE 14 QUADRA 82 SETOR BE CAPANEMA-R

Desenho: Eng Rubens

Área: 171,50 m²

Data: 28/03/2025

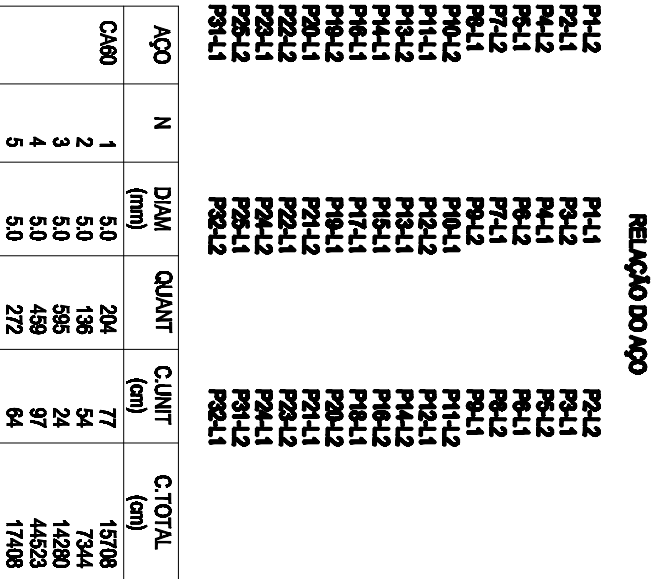
Unidade: cm

Escala: 01/50

Prancha: 08/11

PROJETO ESTRUTURAL

Revisões da Prancha			
Nº	Comentários	Autor	Data
001	Revisão Geral	Rubens	28/03/2025



QD	N	DIA	QUANT	C.UNIT	C.TOTAL
CA50	1	5.0	204	77	15708
	2	5.0	186	54	7344
	3	5.0	258	24	14280
	4	5.0	472	87	44523
	5	5.0	278	64	17408
	6	100	130	287	38610
	7	100	20	171	3420
	8	100	12	152	18720
	9	100	112	110	1320

ACO	D/AM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10,0	600,7	407,4
CA60	5,0	992,6	166,3

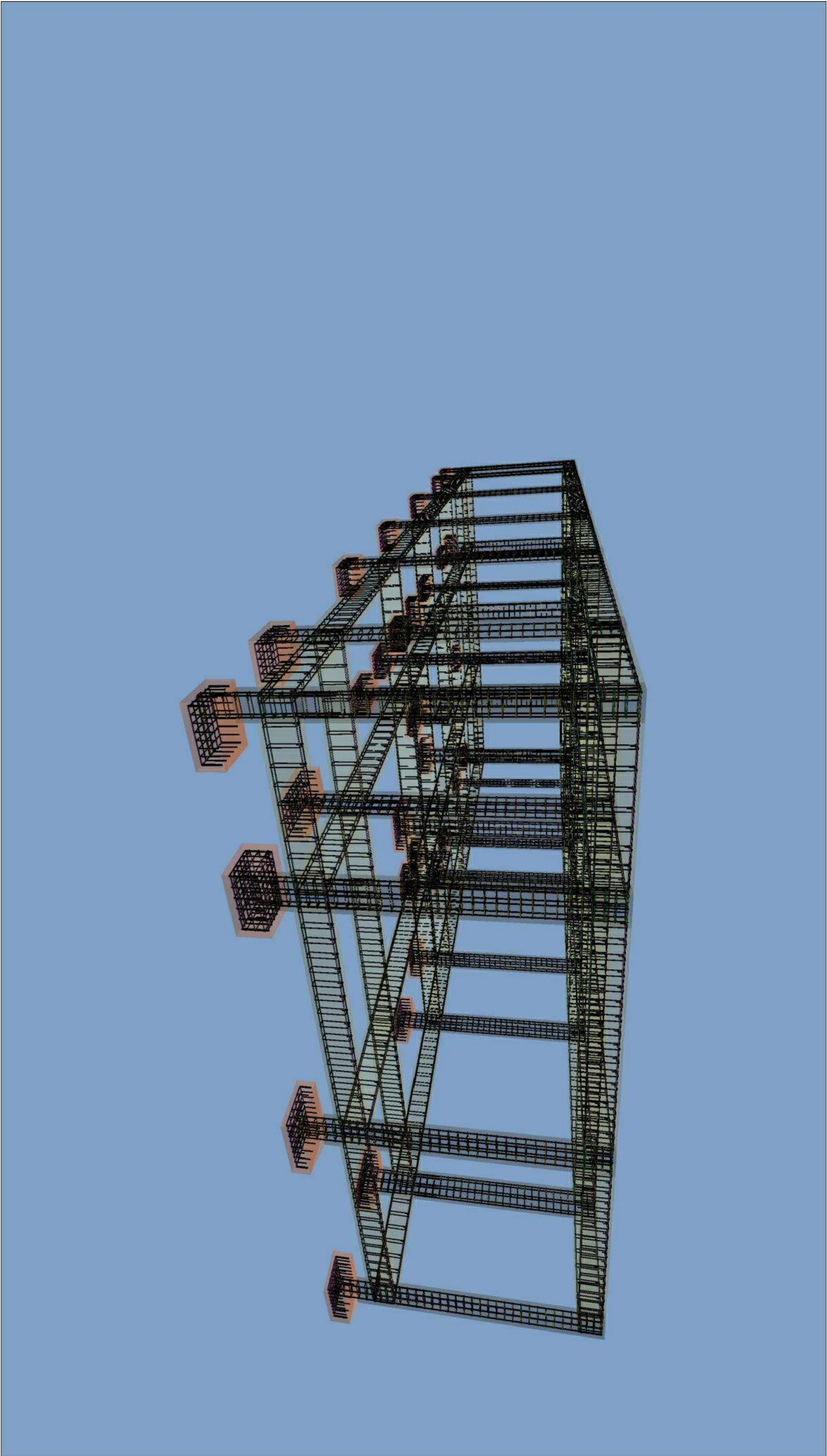
Volume de concreto (C-25) = 4,89 m³
Área de forma = 91,62 m²



Revisões da Prancha			
001	Revisão Geral	Rubens	26/03/2025
Nº.	Comentários	Autor	Data

PROJETO ESTRUTURAL

RUBENS L. R. SOUZA Rua Dr Luiz Oscar Prauchner 1079 Planalto-PR (048)35551188 rubensluis@iglobomail.com	
PREFEITURA MUNICIPAL DE CAPANEMA AMPLIAÇÃO EM ALVENARIA CEMEI - PINÇO DE GENTE PILARES EM PRIMAADA	
RUA PADRE CIRILO LOTE 14 QUADRA 02 SETOR SE CAPANEMA-RR	Esgote: 01/50
Desempenho Rubens	Área: 171,50 m2
Data: 26/03/2025	Unidade: cm
Prancha	09/11



RUBENS LUIS ROLANDO SOUZA
Assinado de forma eletrônica em 26/03/2025
RUBENS LUIS ROLANDO SOUZA
883053
08/5330-03-00

RUBENS LUIS ROLANDO SOUZA
ENGENHEIRO CIVIL
CREA RS 88.296/D

Revisões da Prancha

001	Revisão Geral	Rubens	26/03/2025
Nº.	Comentários	Autor	Data

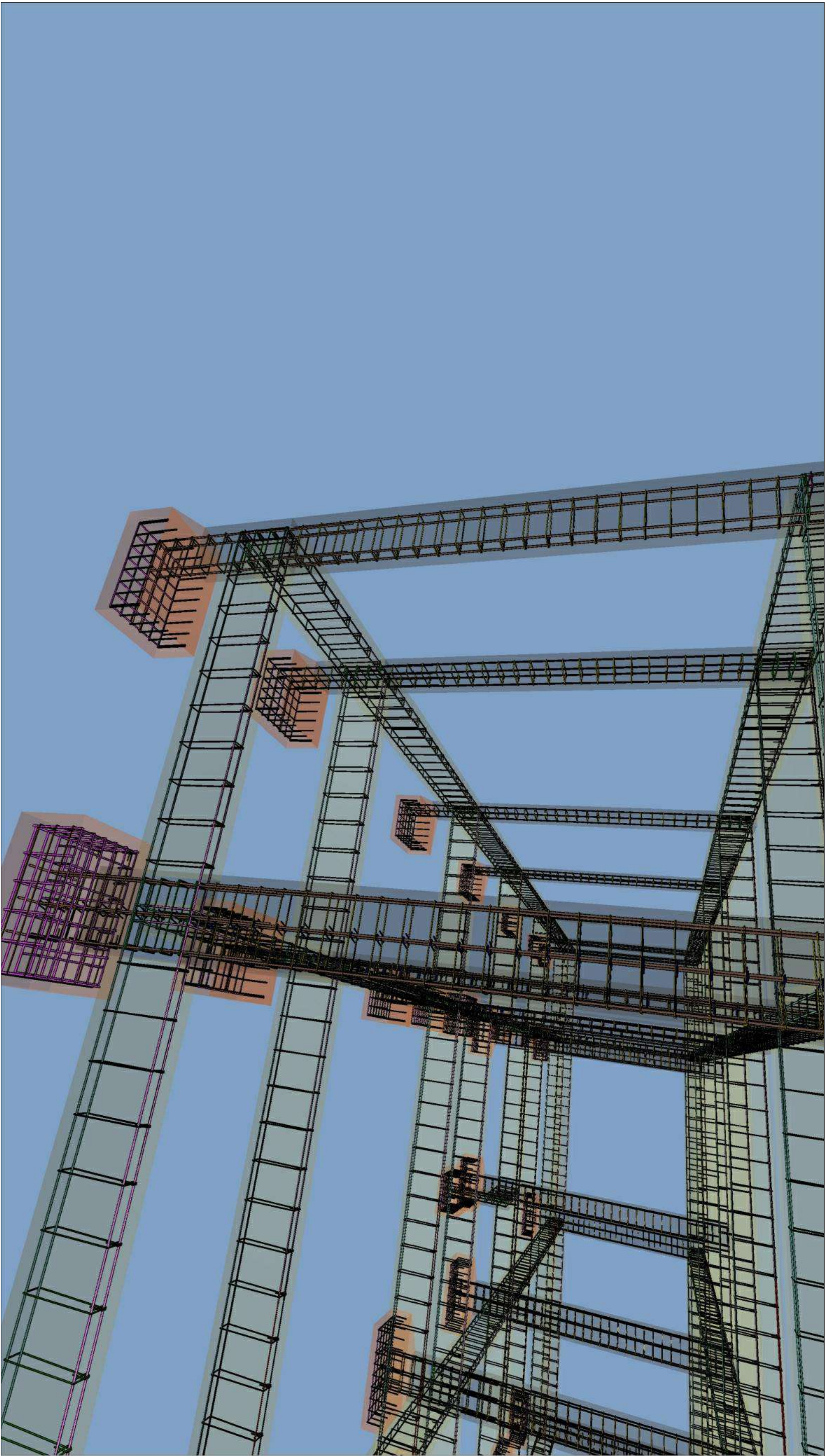
PROJETO ESTRUTURAL

PREFEITURA MUNICIPAL DE CAPANEMA

AMPLIAÇÃO EM ALVENARIA CEMEI - PINÇO DE GENTE
IMAGEM DA ESTRUTURA

RUBENS L. R. SOUZA
Rua Dr. Luiz Oscar Prauchner 1079
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RUA PADRE CIRILO LOTE 14 QUADRA 62 SETOR SE CAPANEMA-PR
Desenho: Eng. Rubens
Data: 26/03/2025
Área: 171,50 m2
Unidade: cm
Escala: 01/50
Prancha: 10/11



Assinado digitalmente
RUBENS LUIS ROLANDO SOUZA
ROLANDO SOUZA
5883053 26/03/2025 09:01
0863337-730300

RUBENS LUIS ROLANDO SOUZA
ENGENHEIRO CIVIL
CREA RS 88.286/D

Revisões da Prancha			
Nº.	Comentários	Autor	Data
001	Revisão Geral	Rubens	26/03/2025

PROJETO ESTRUTURAL

PREFEITURA MUNICIPAL DE CAPANEMA

AMPLIAÇÃO EM AVENIDA GEMEI - PINO DE GENTE
IMAGEM DA ESTRUTURA

RUBENS L. R. SOUZA
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RUA PADRE CIRILO LOTE 14 QUADRA 82 SETOR BE. CAPANEMA-PR
Desenho: Eng. Rubens
Data: 26/03/2025
Eng.º
01/50
Prancha
11/11
Área: 171,50 m²
Unidade: cm