

FCK= 25 MPA



GAMA-Z ENGENHARIA LTDA | CREA-RS 249.562
Dieter & Schiefelbein
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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO PRUMADAS DE PILARES

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON

DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
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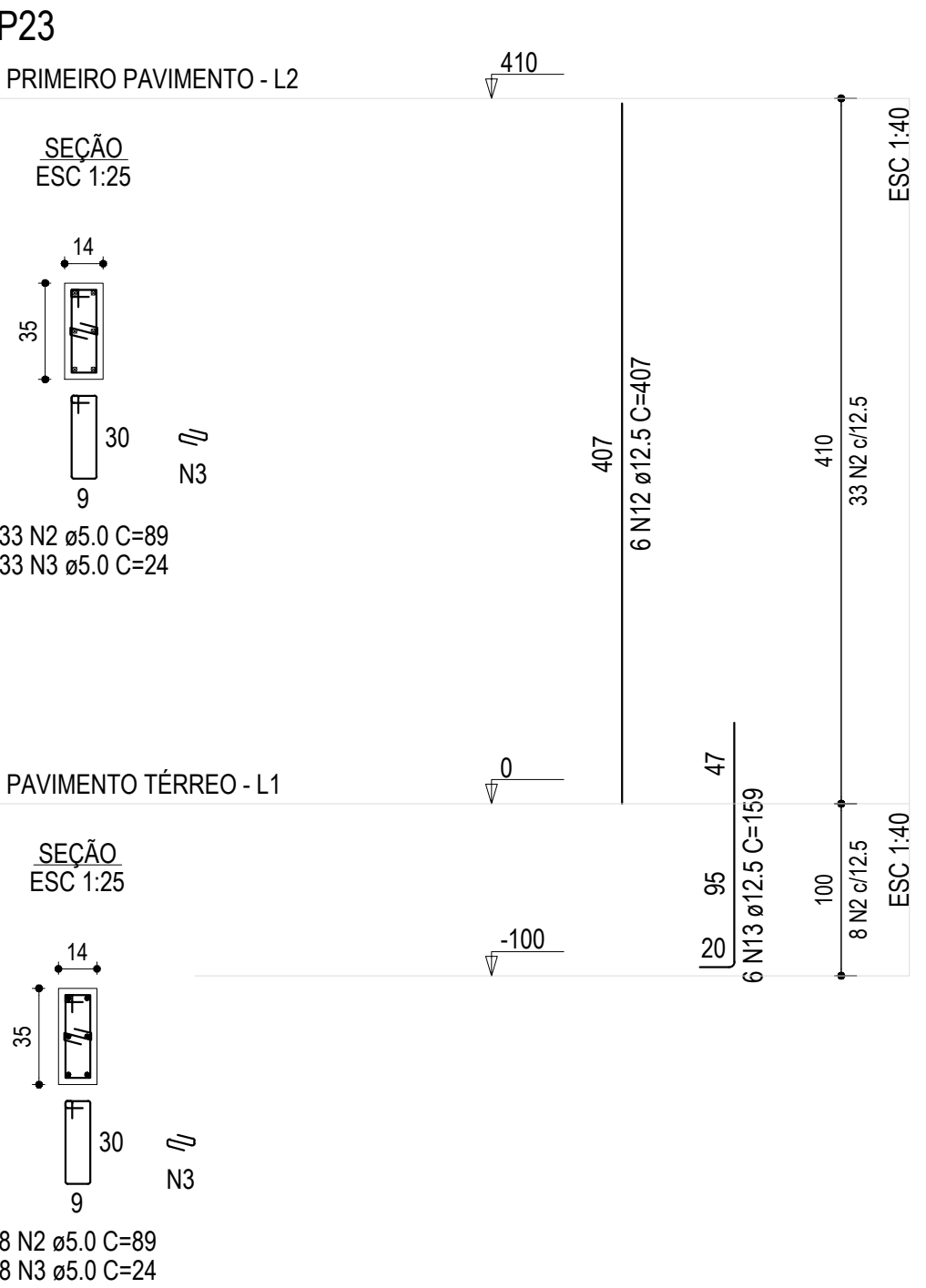
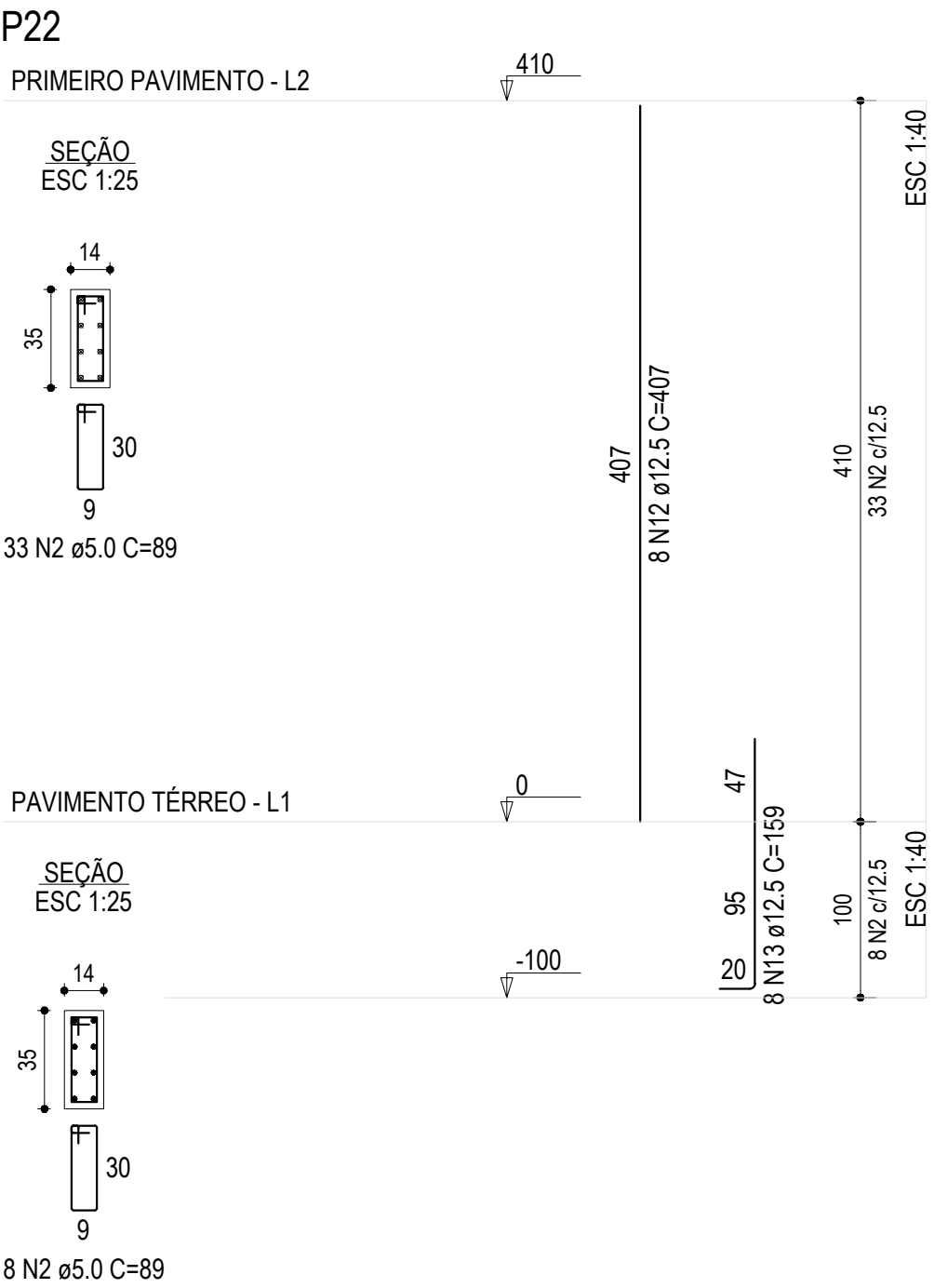
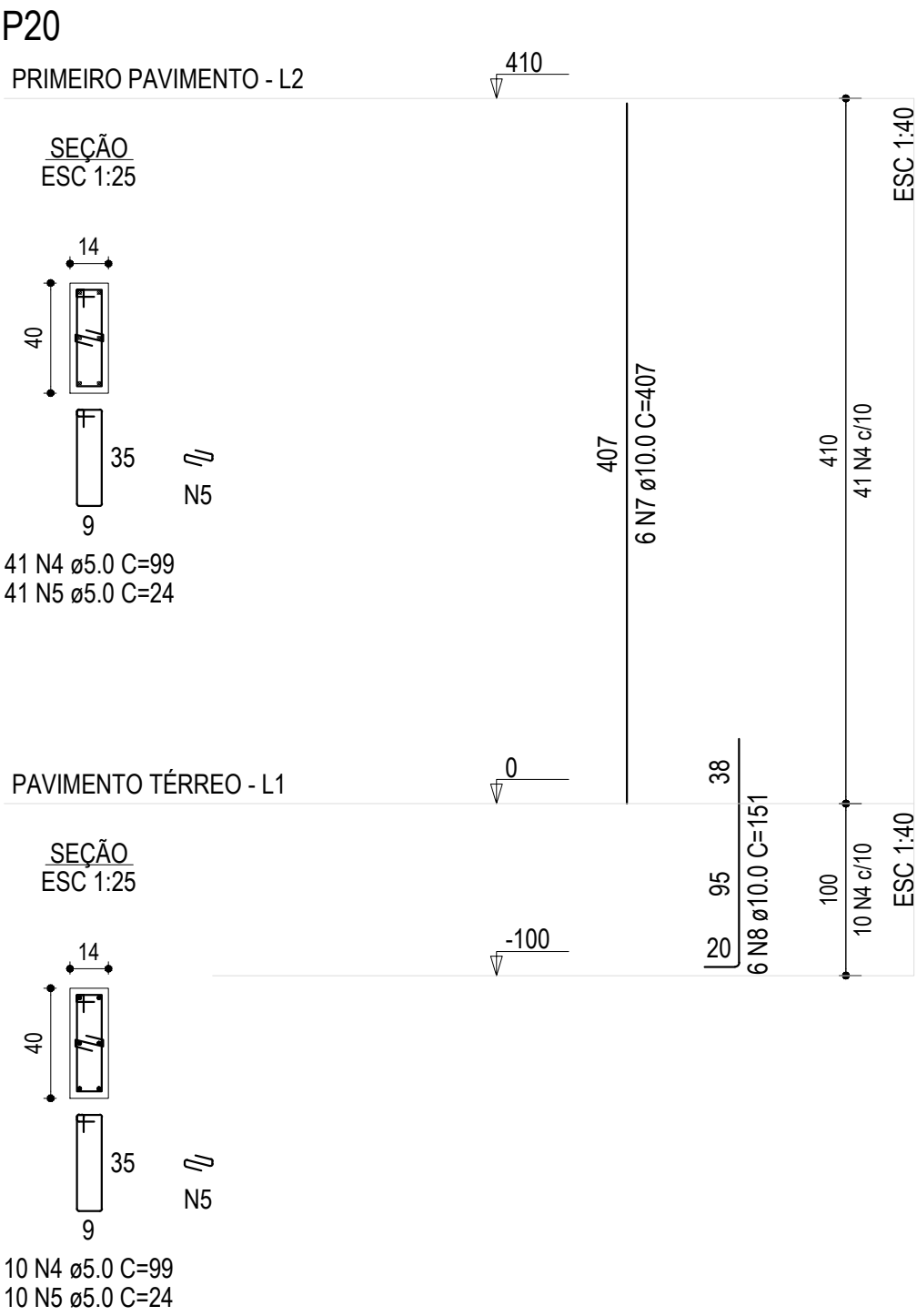
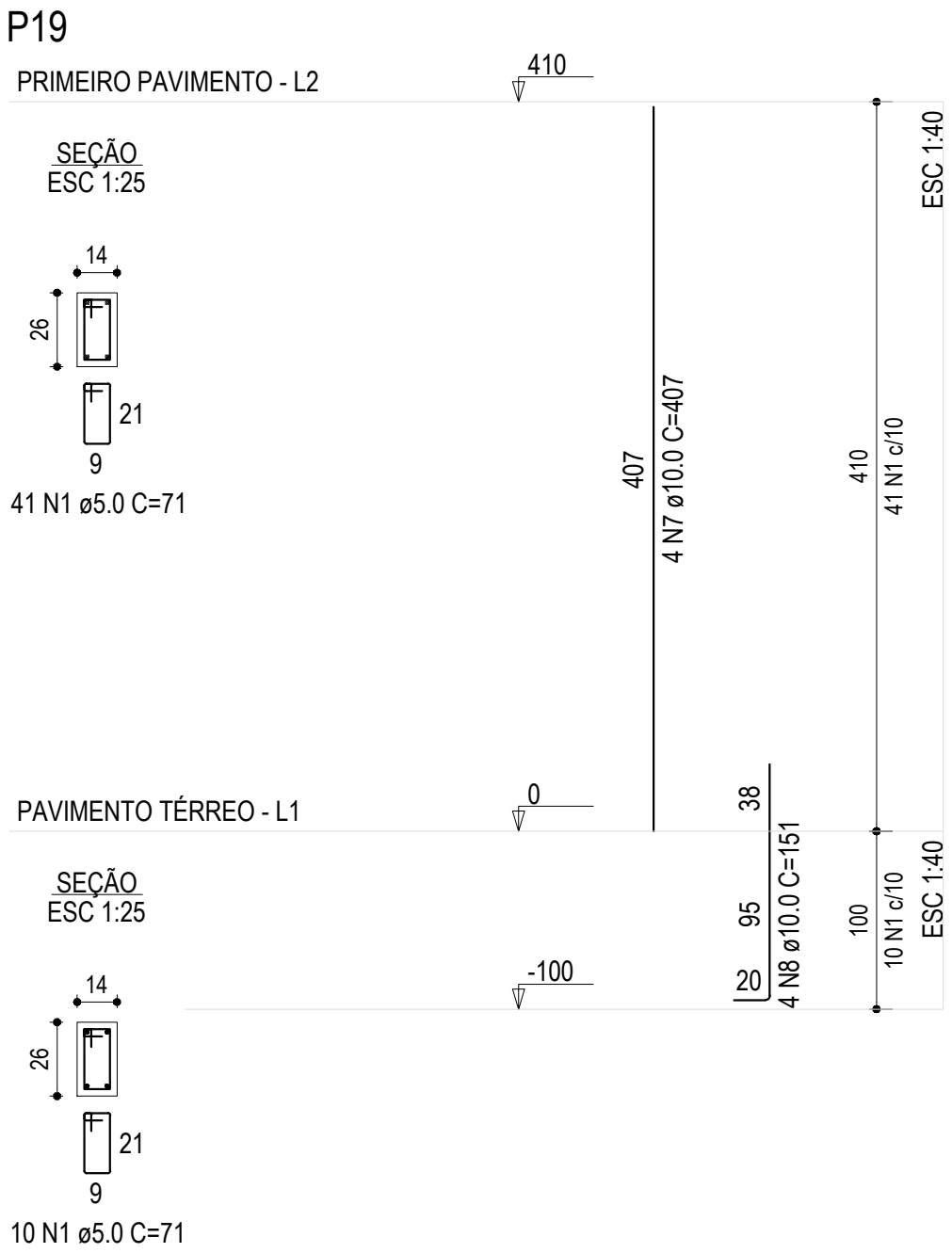
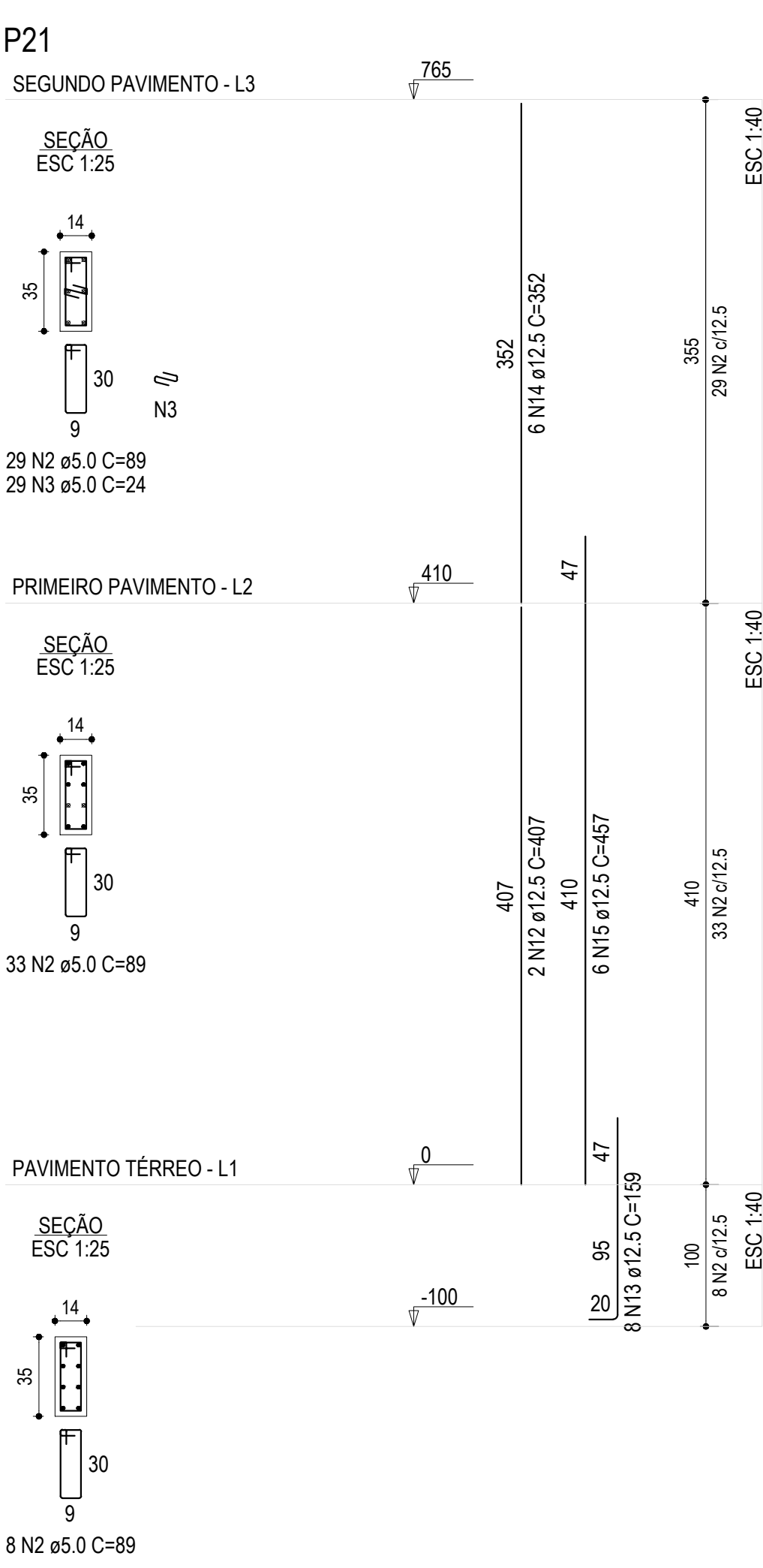
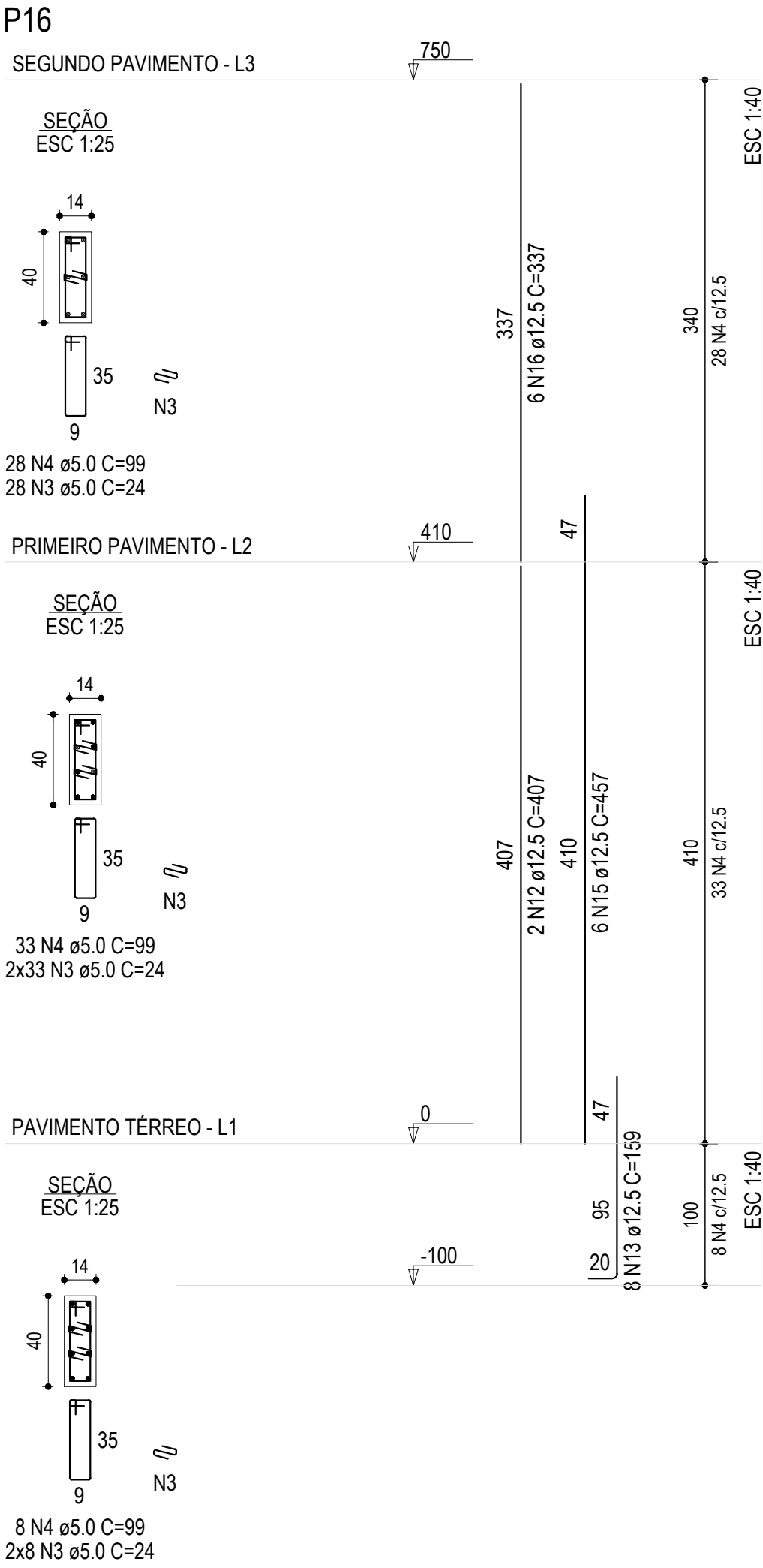
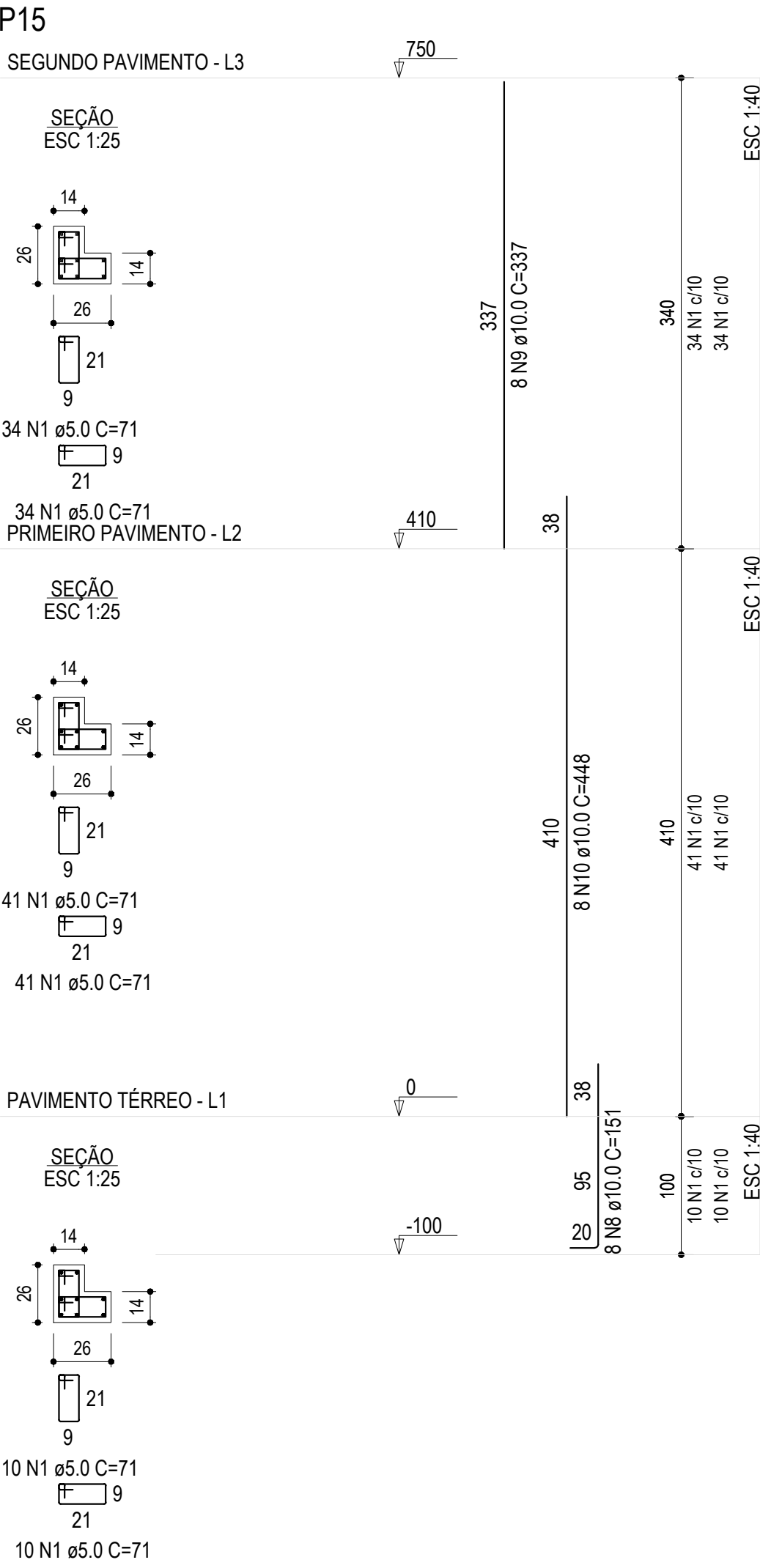
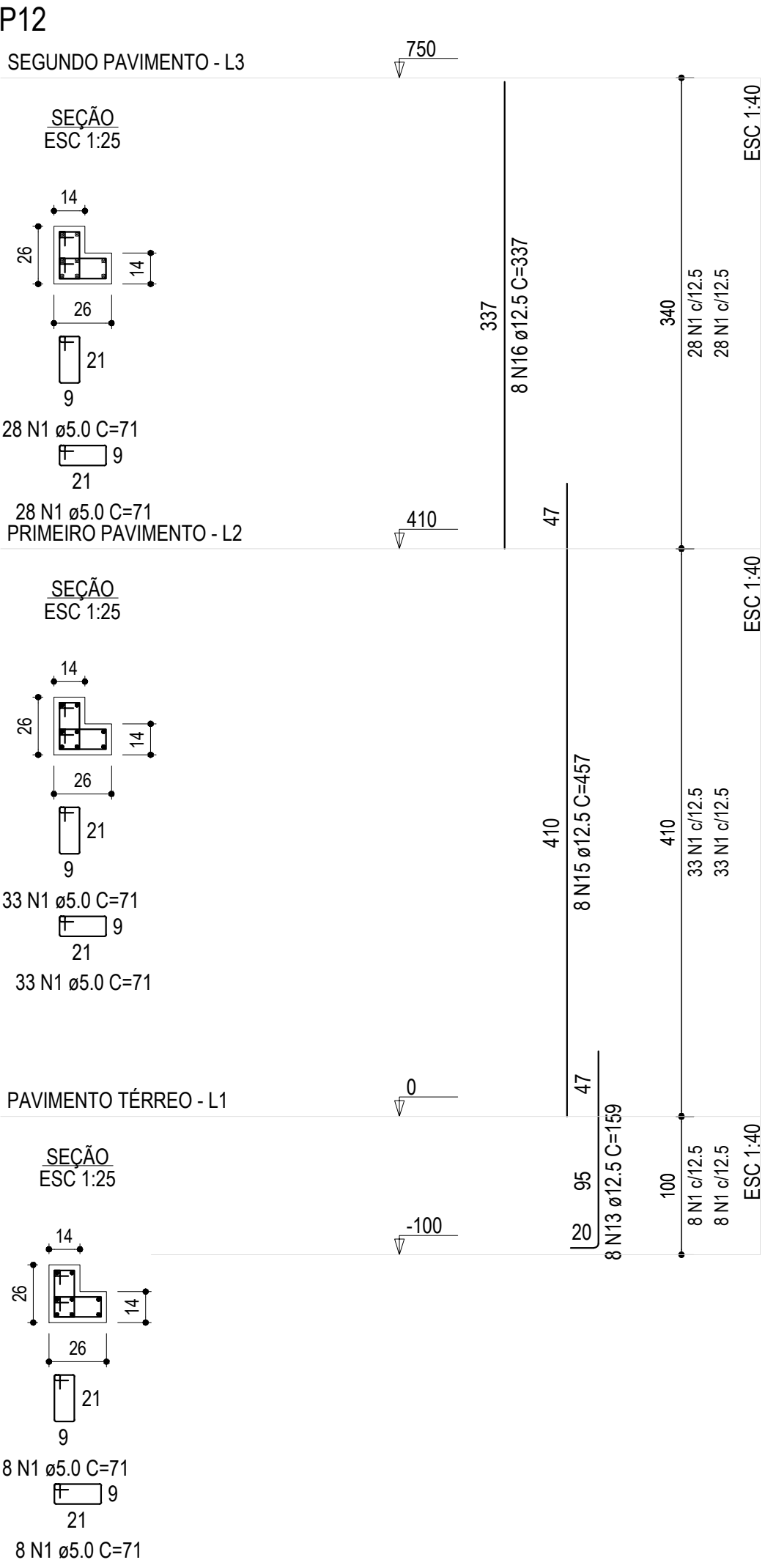
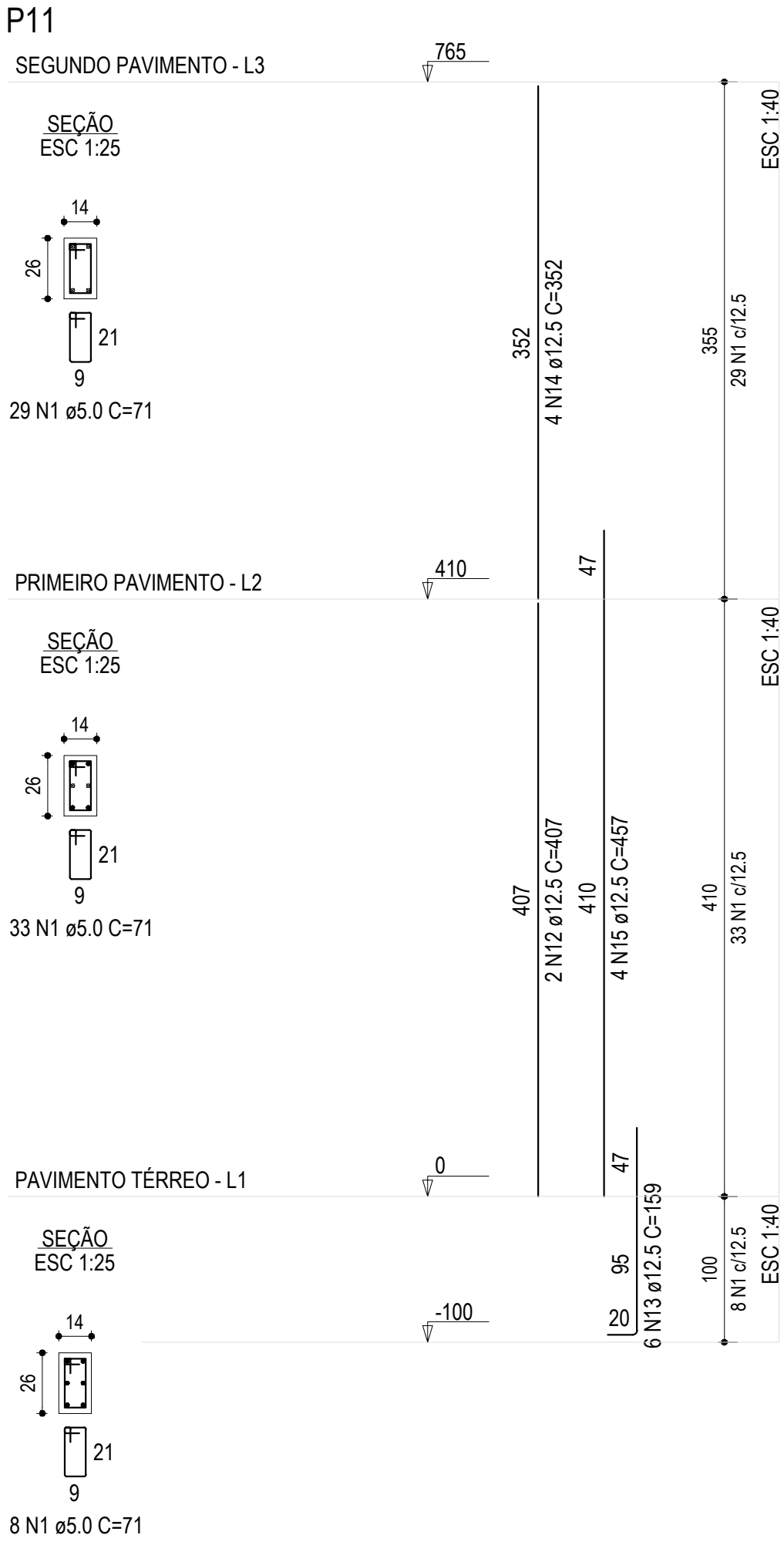
Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

ESCALA
Outubro/2023

INDICADA

FOLHA

01



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**EDMILSON
DIETER:00043470050**

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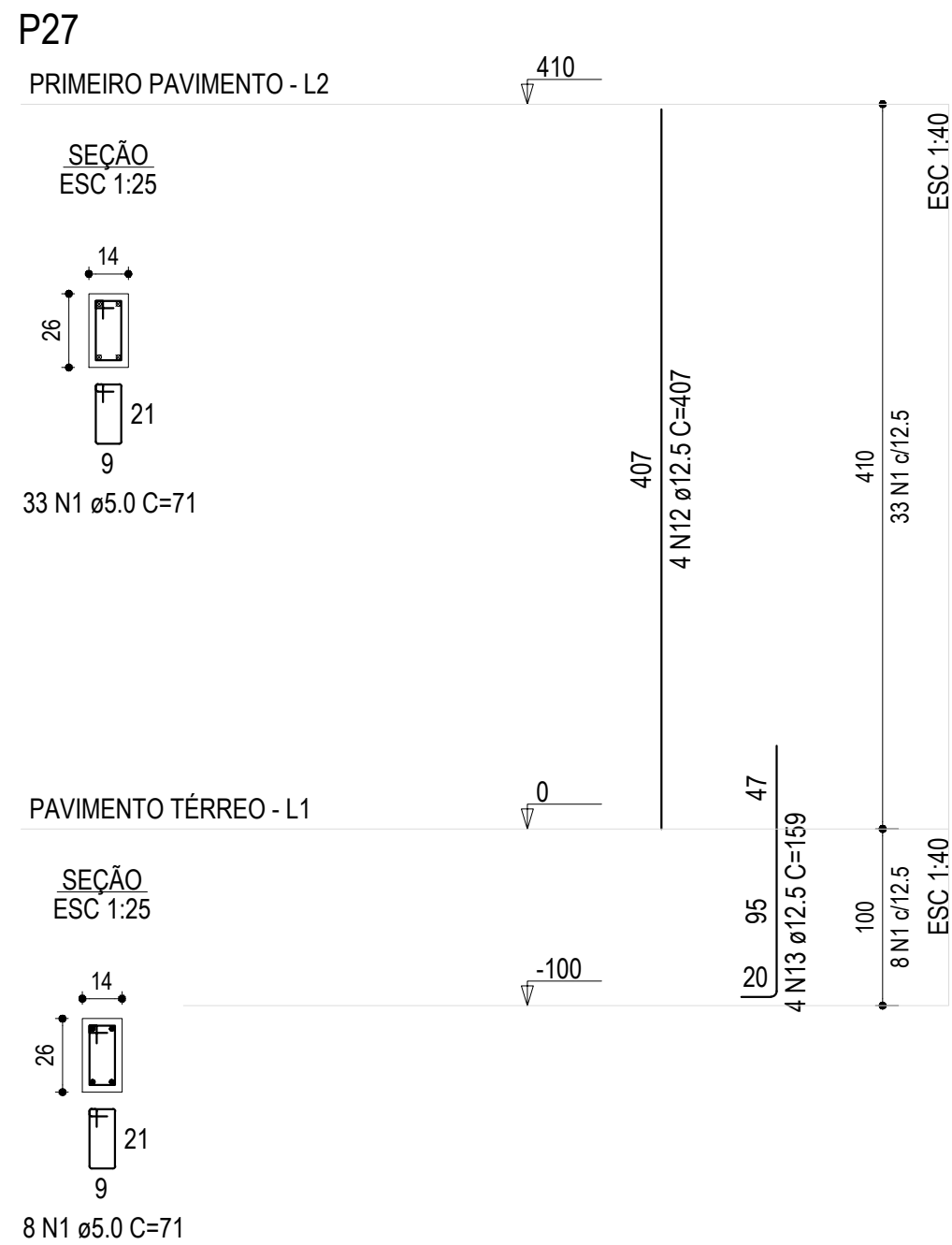
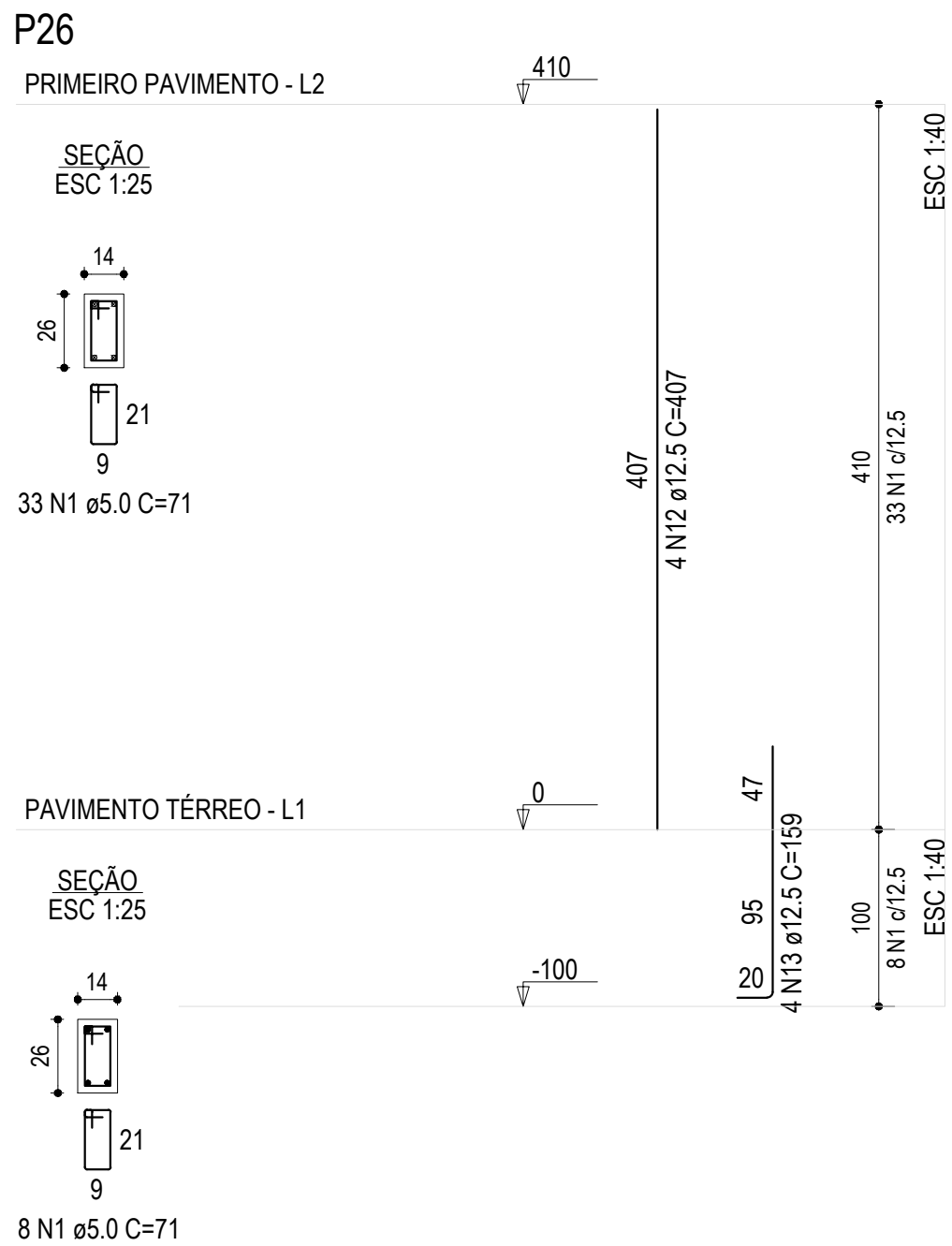
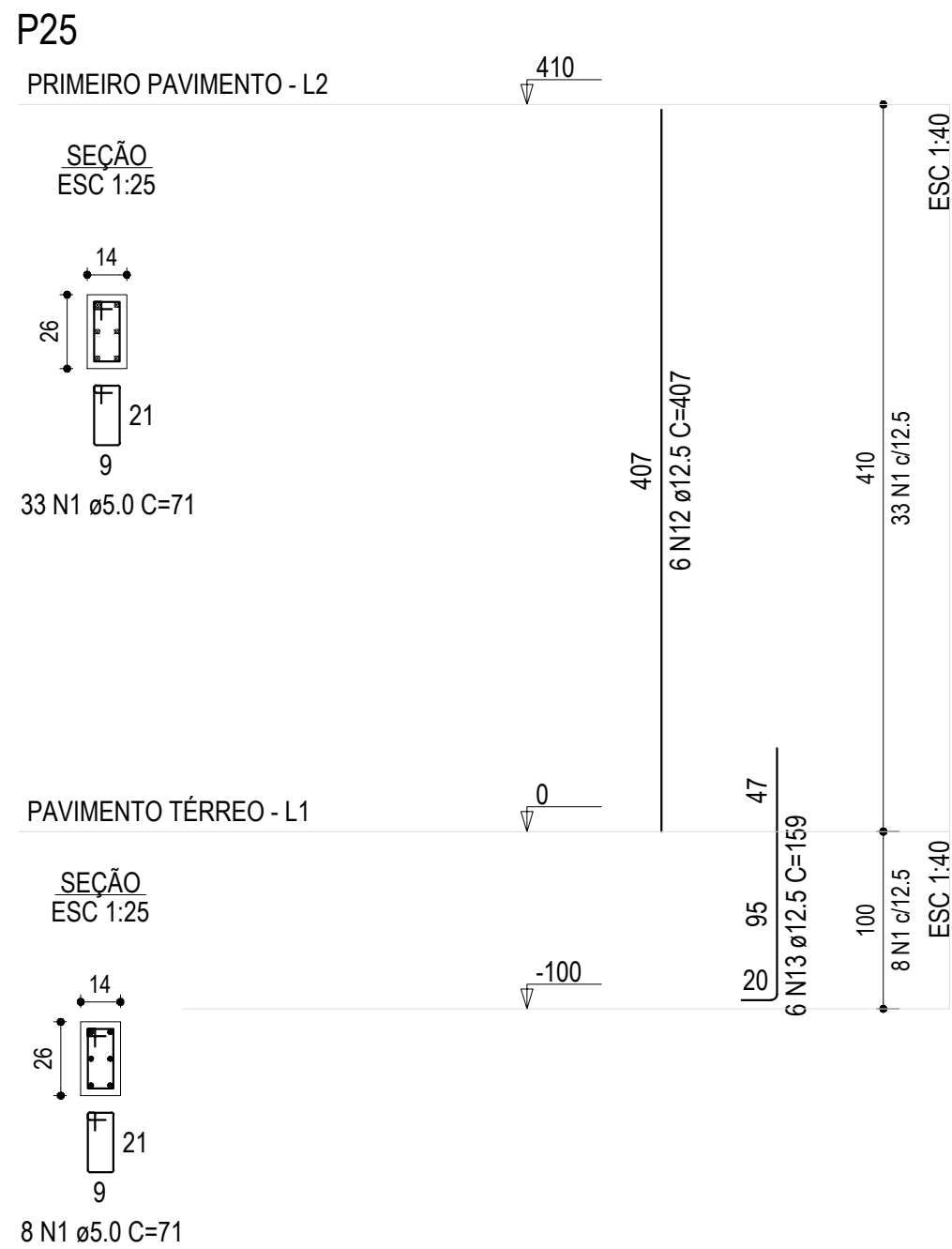
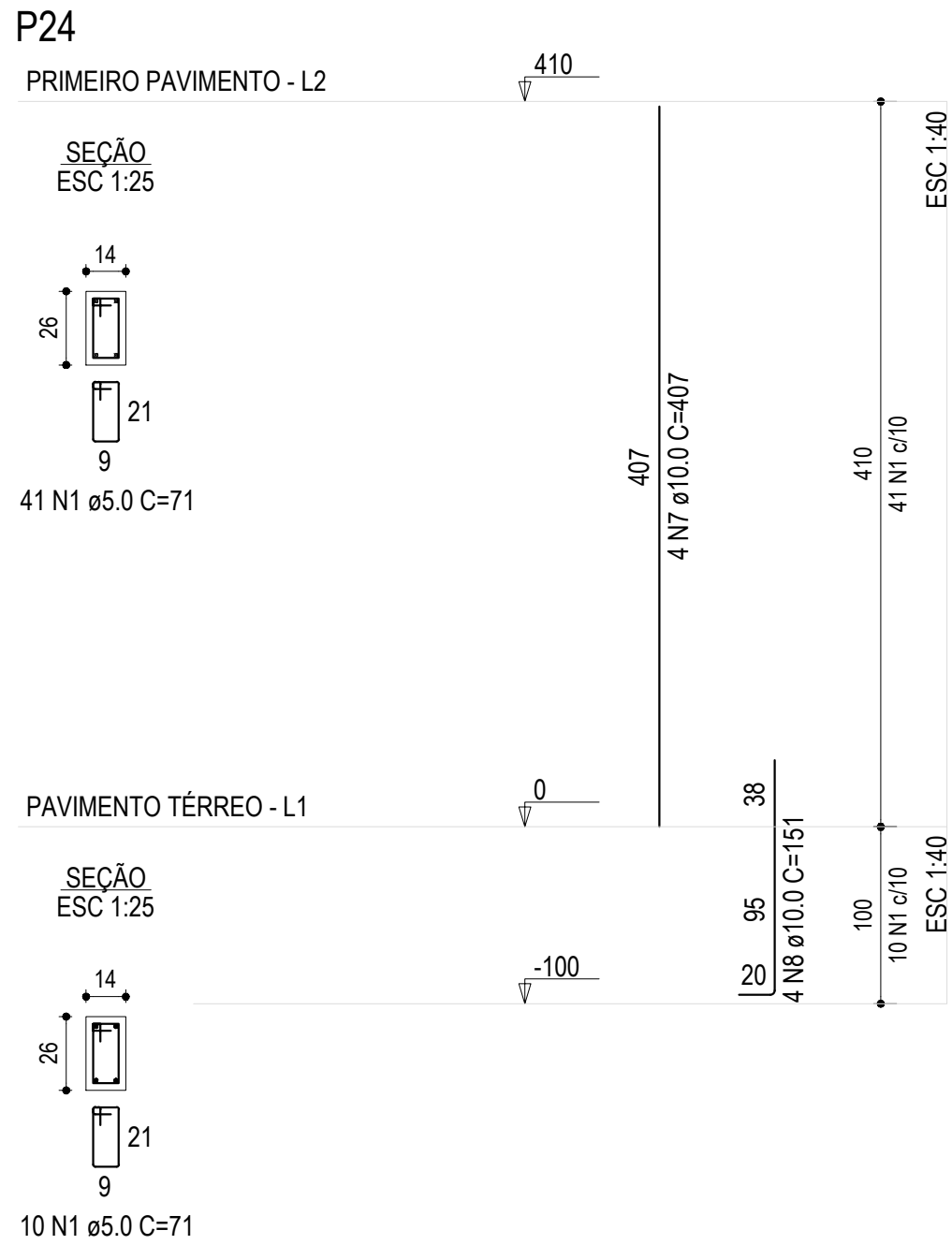
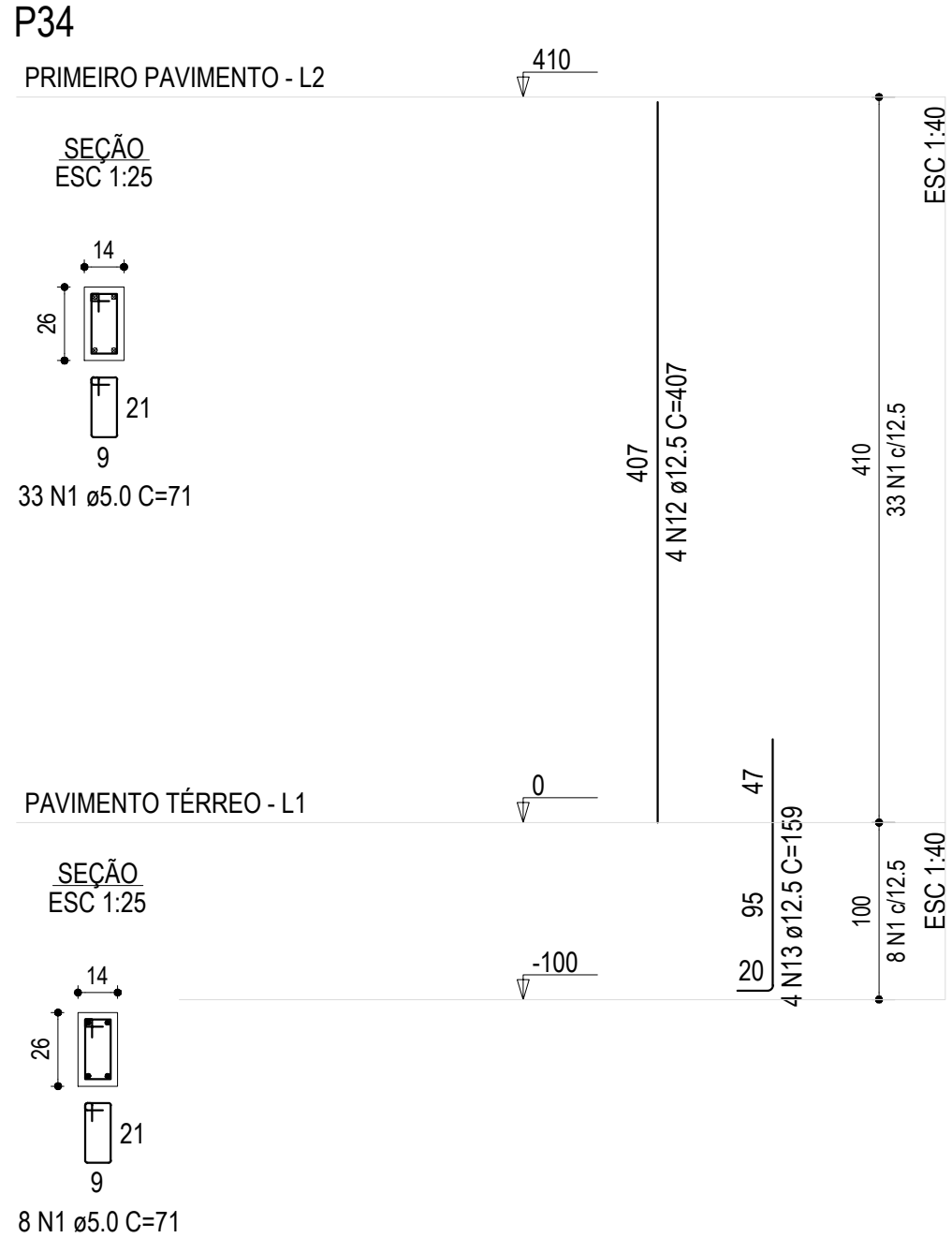
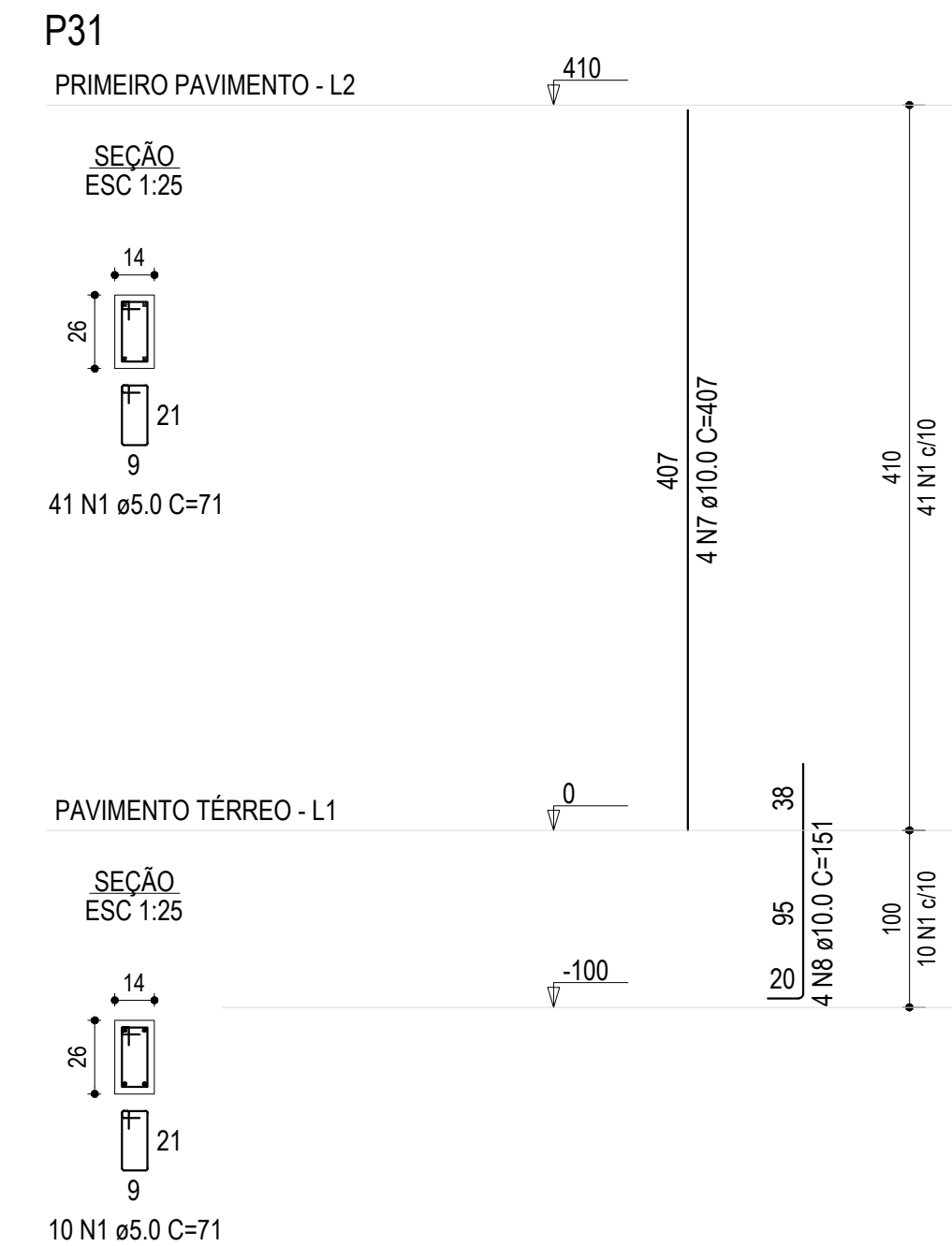
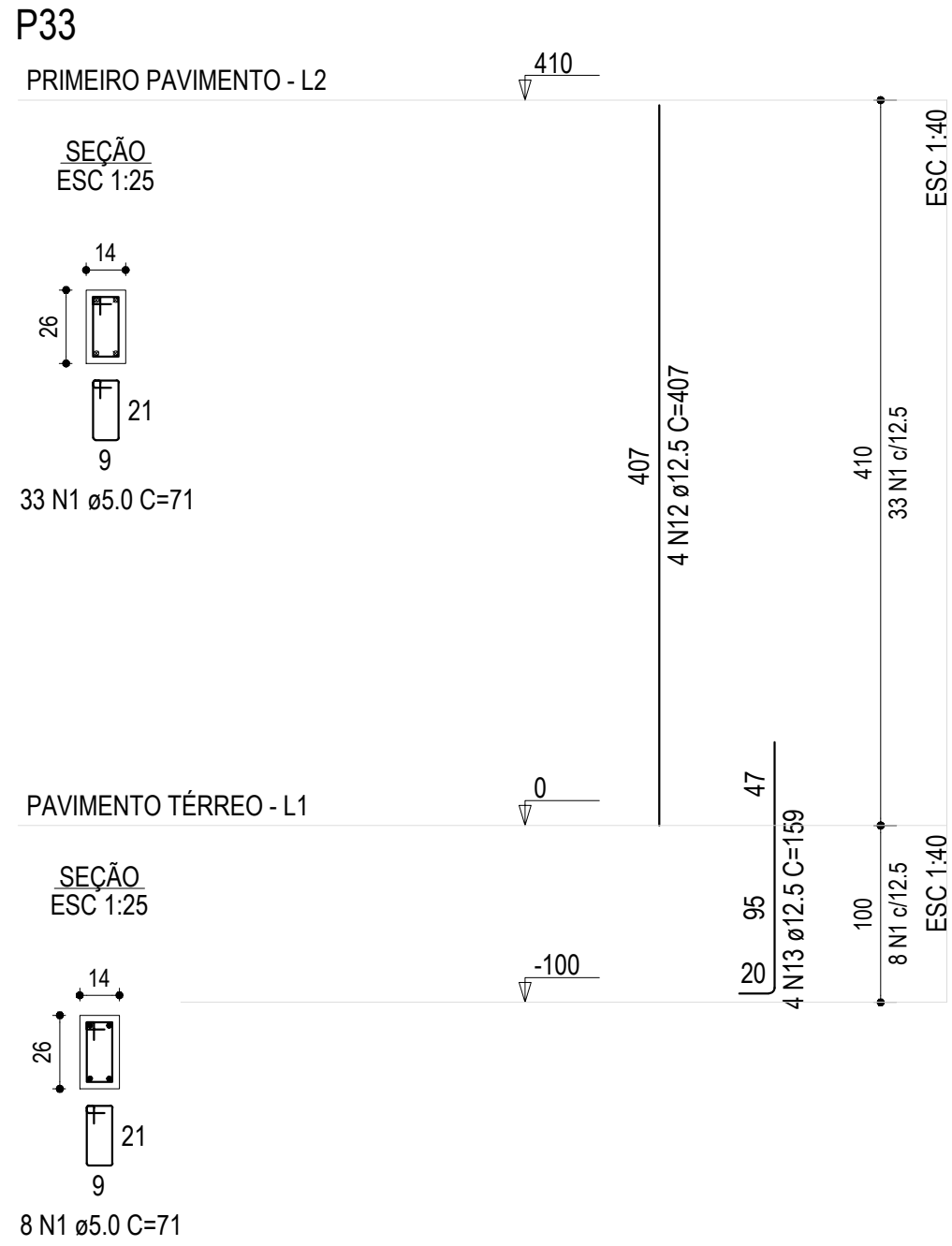
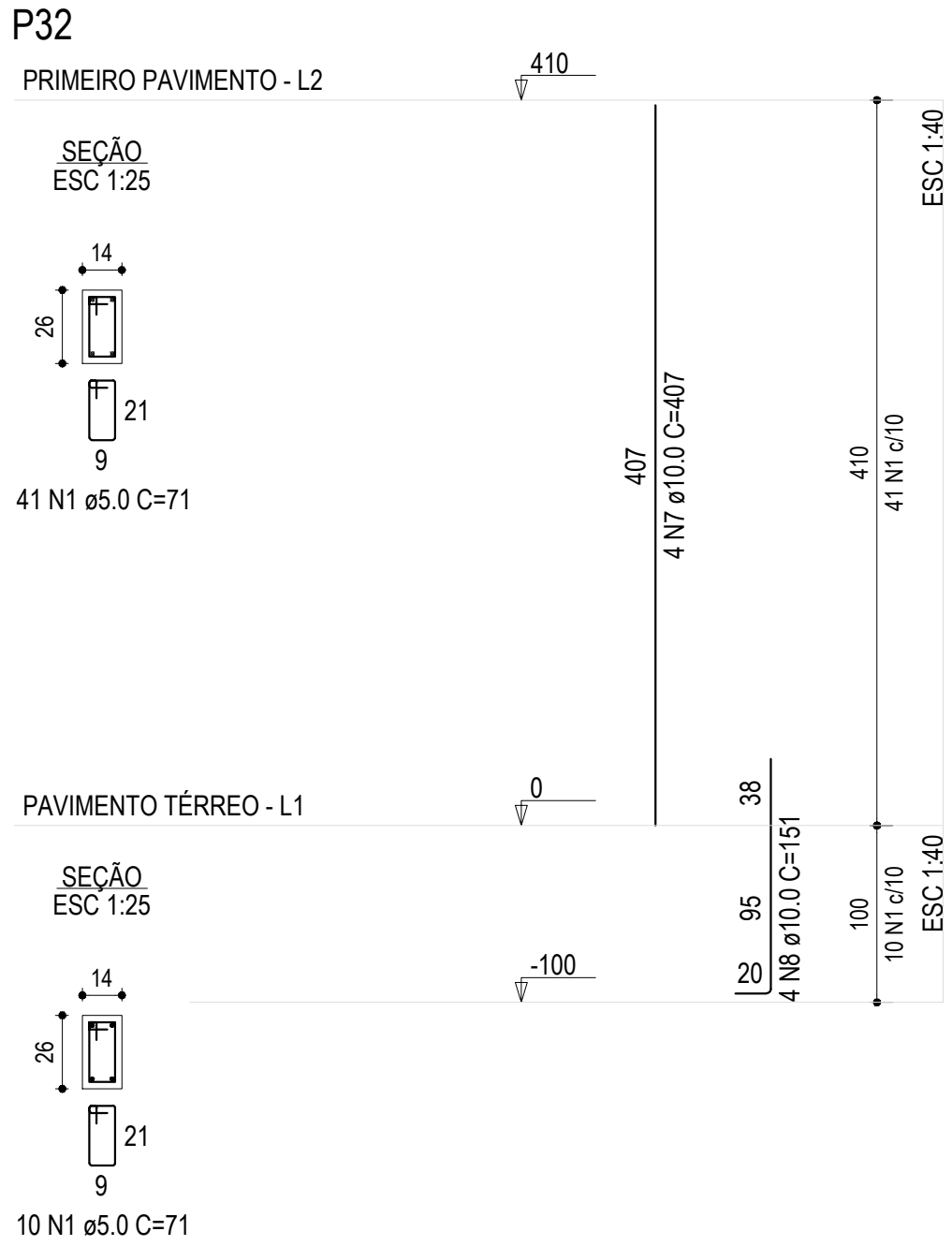
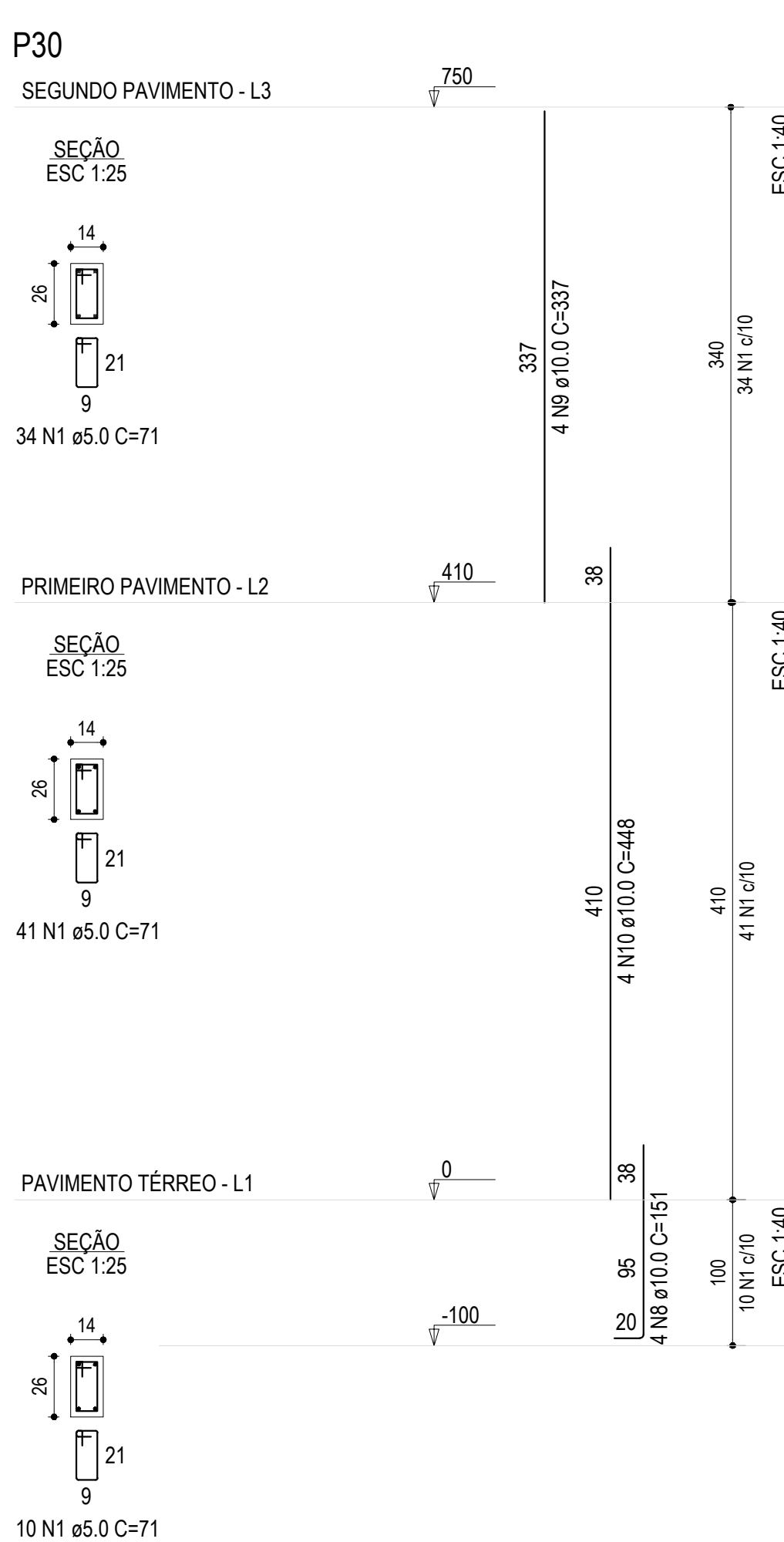
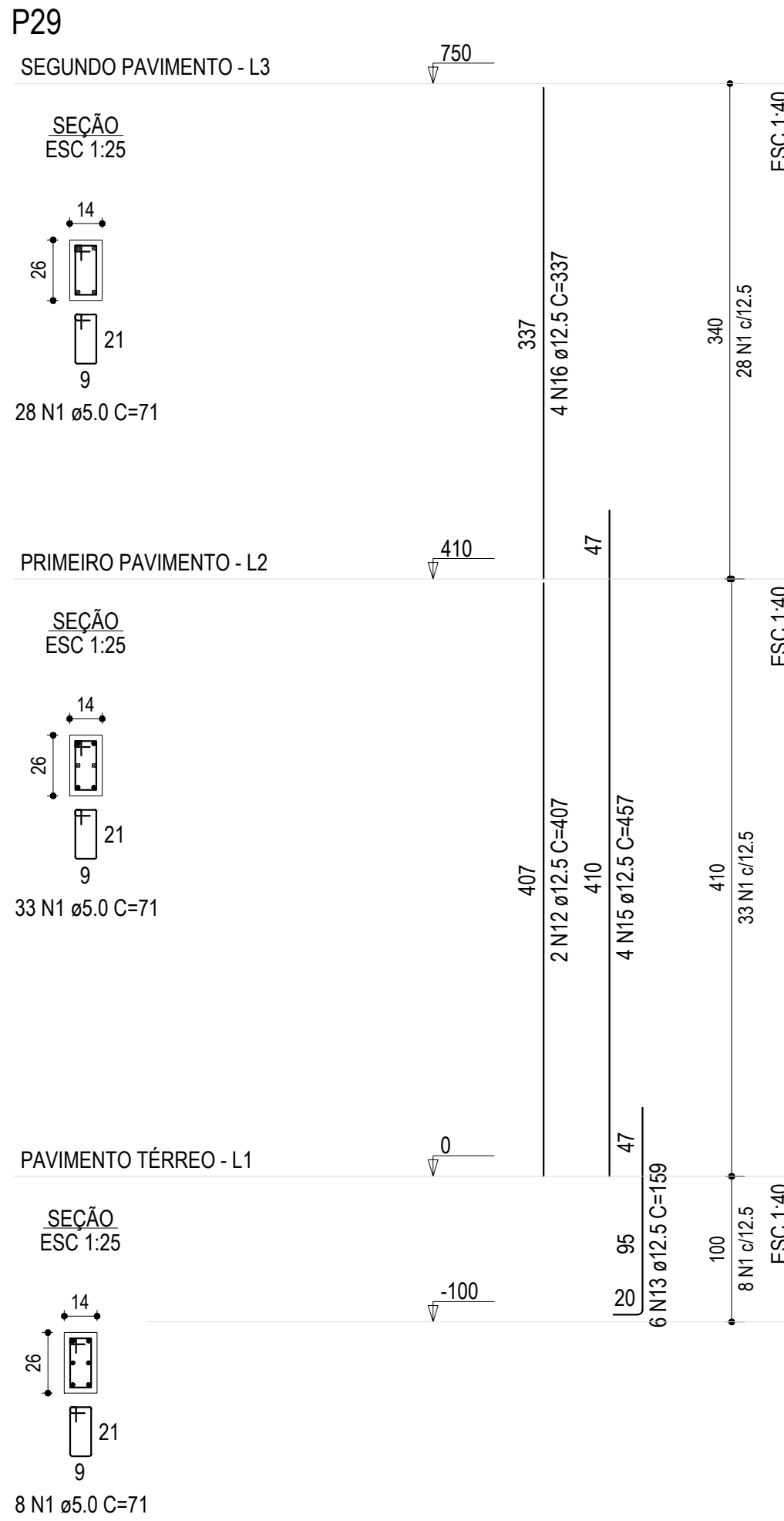
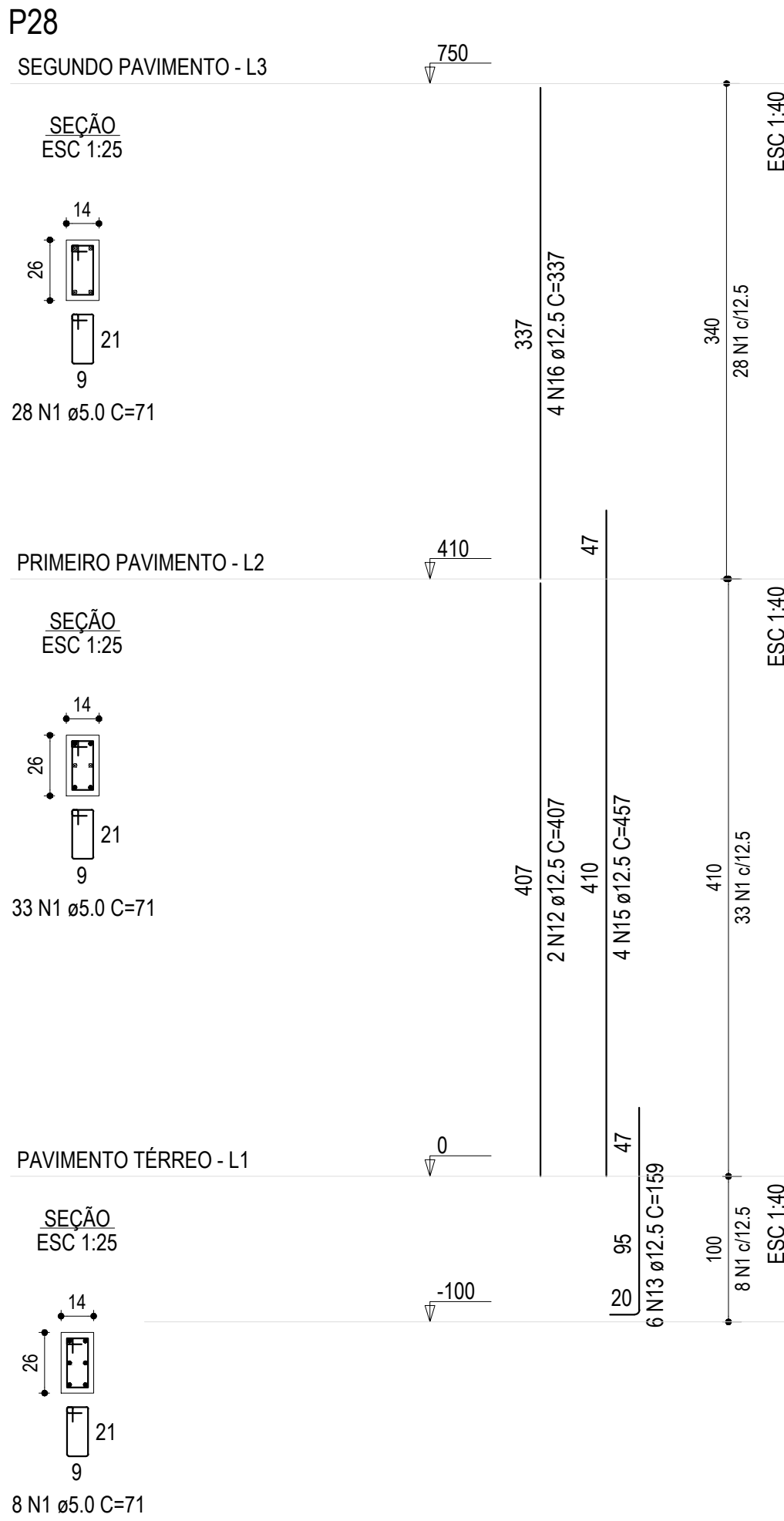
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02



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Dados: 2025.02.20 11:56:48 -03'00'

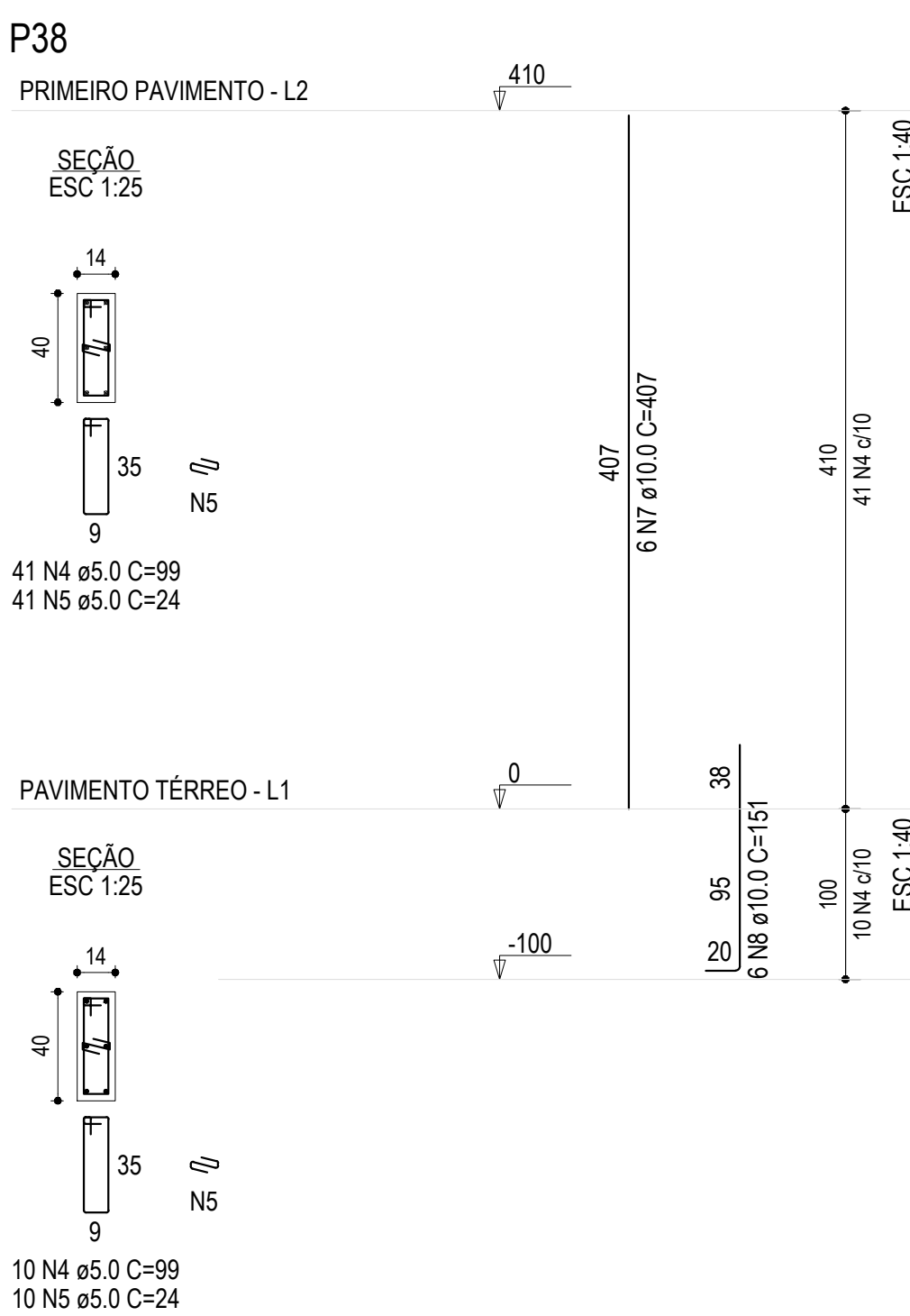
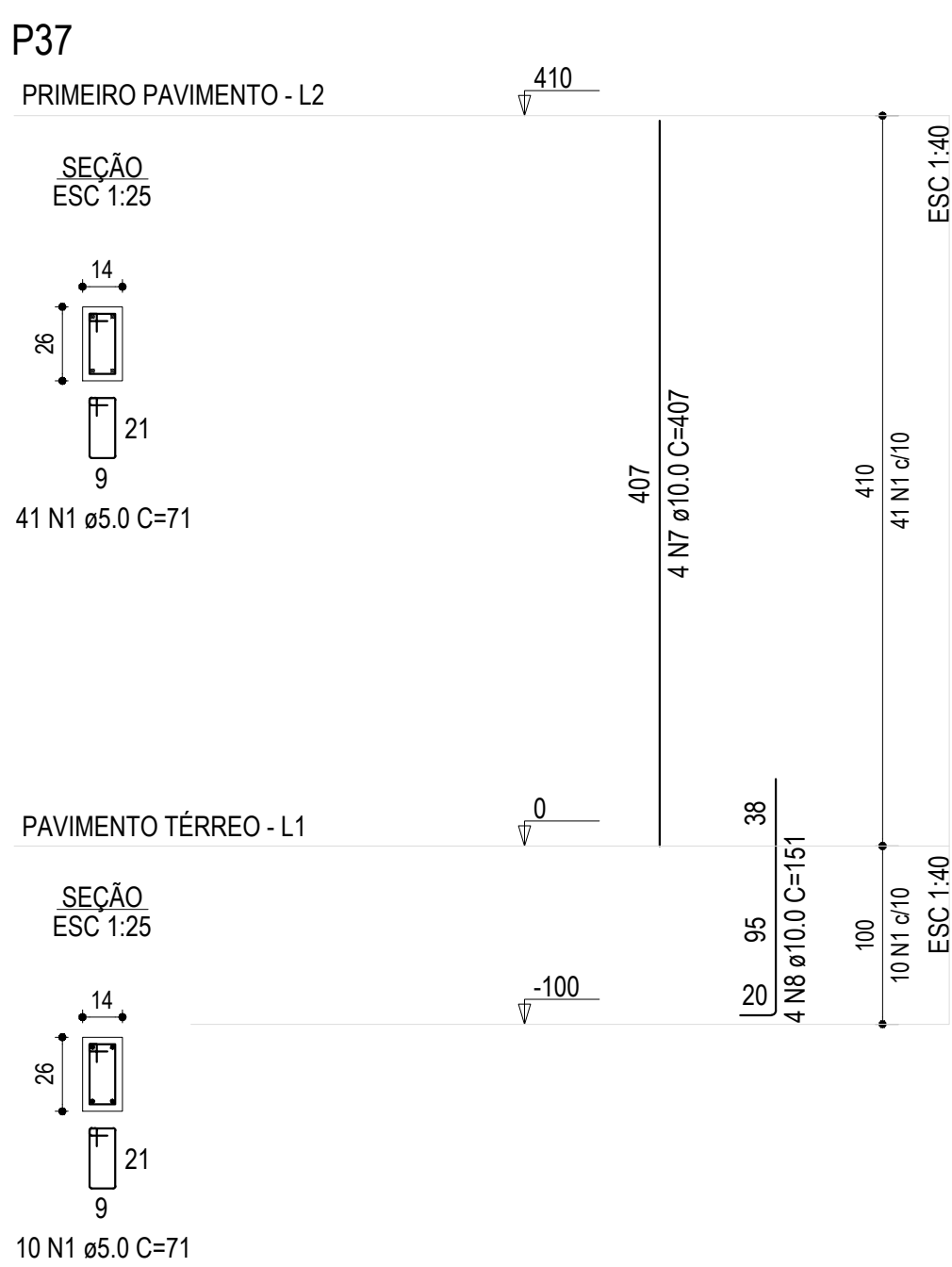
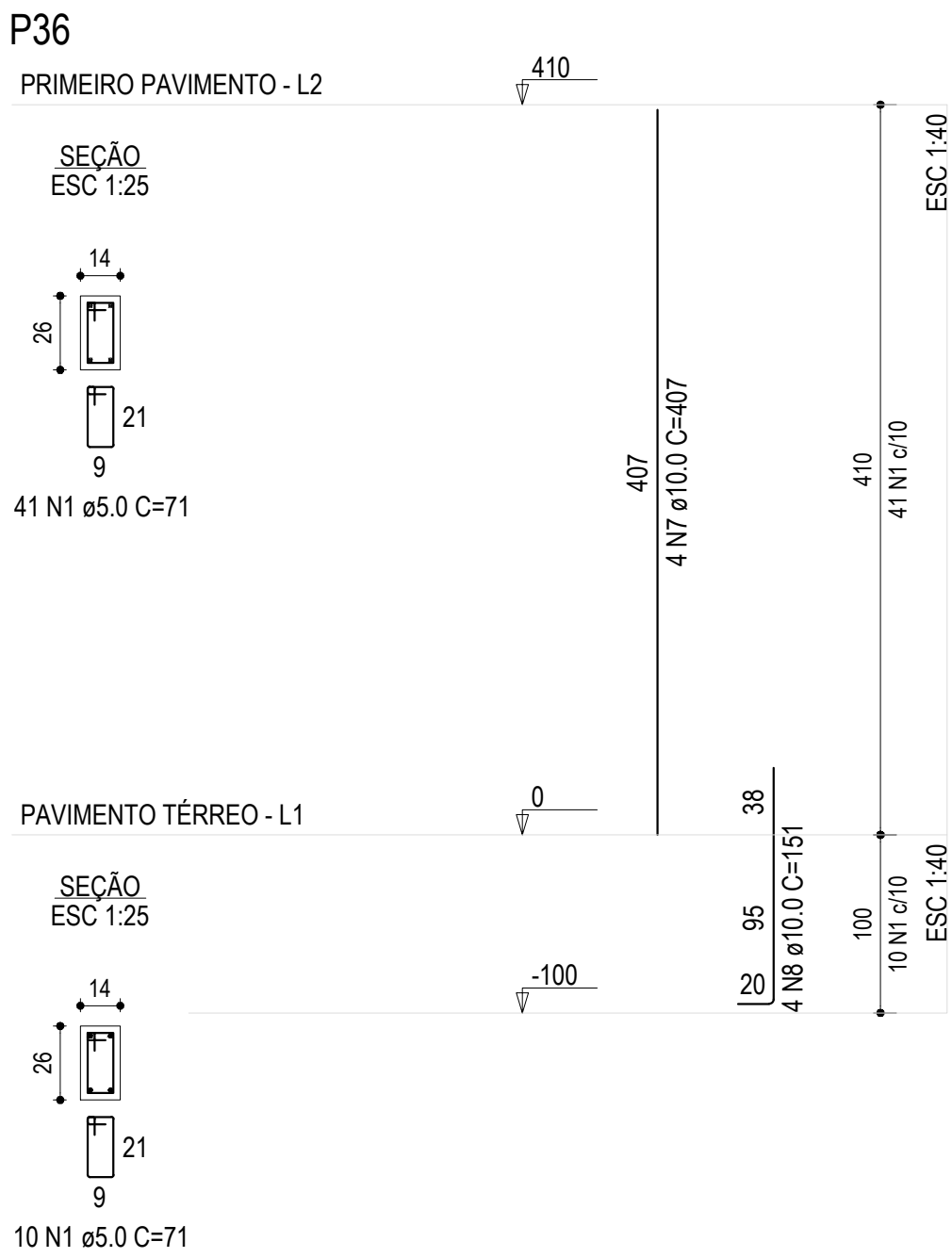
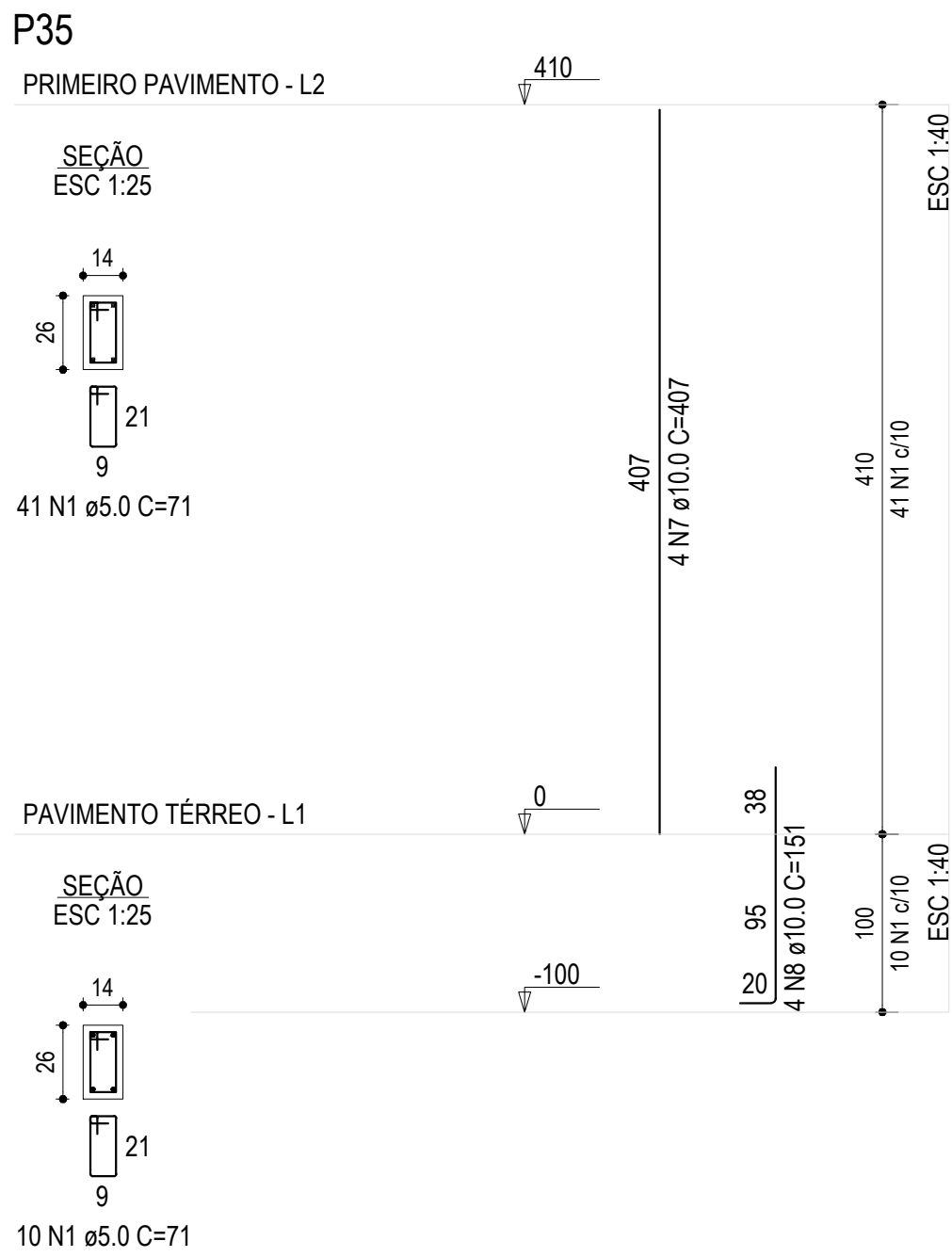
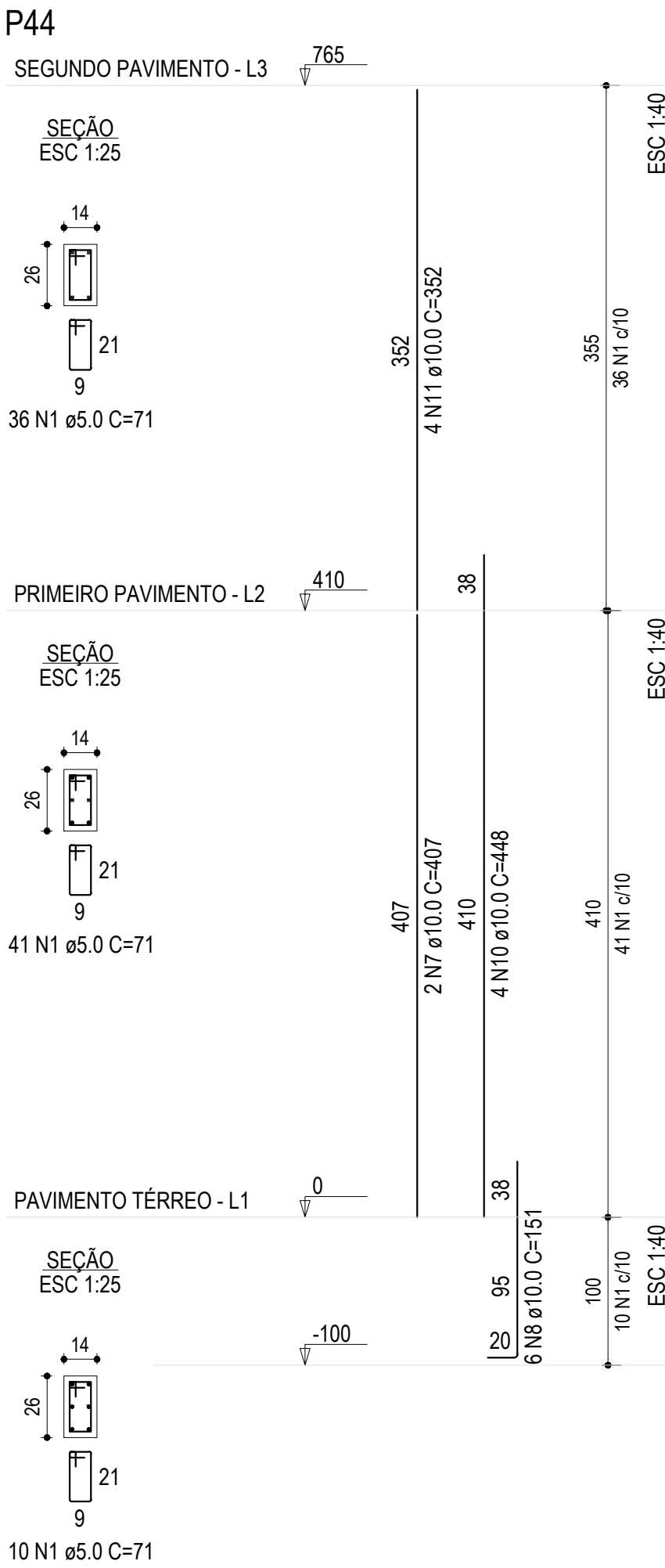
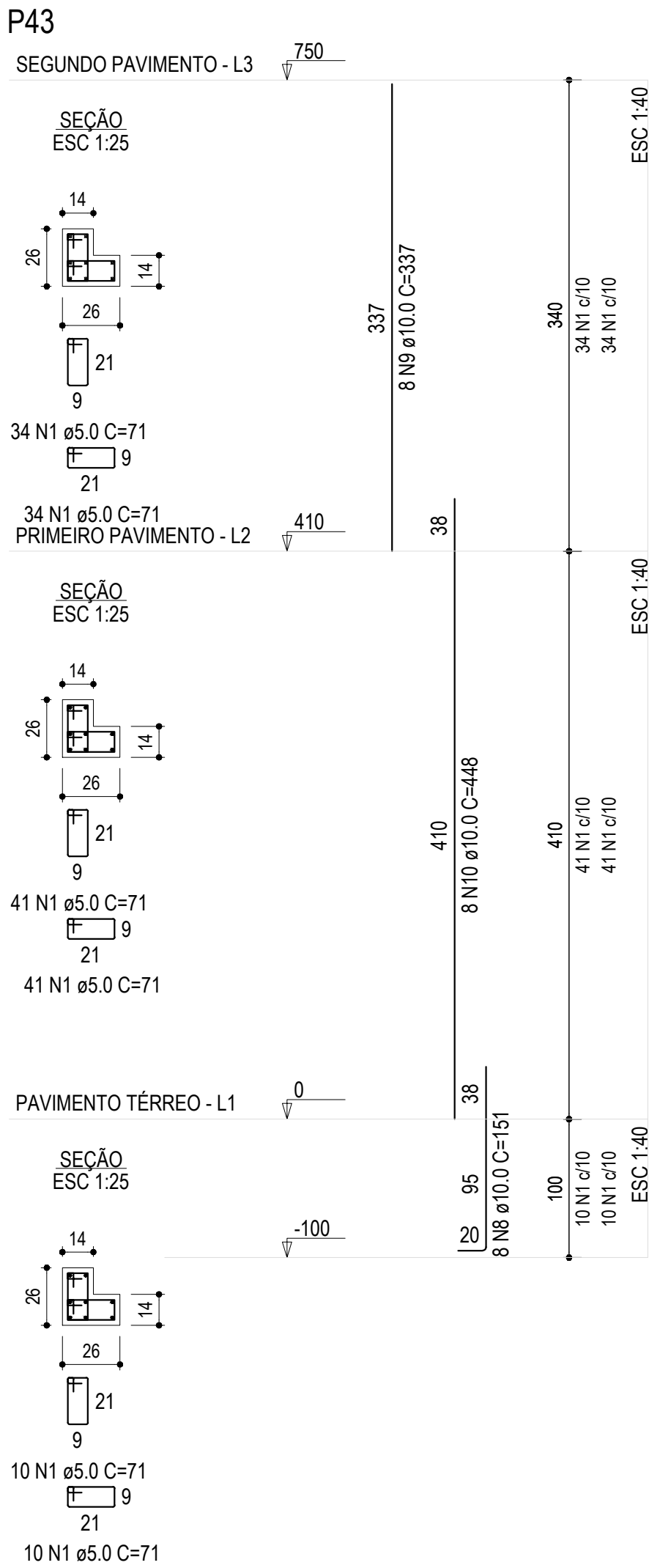
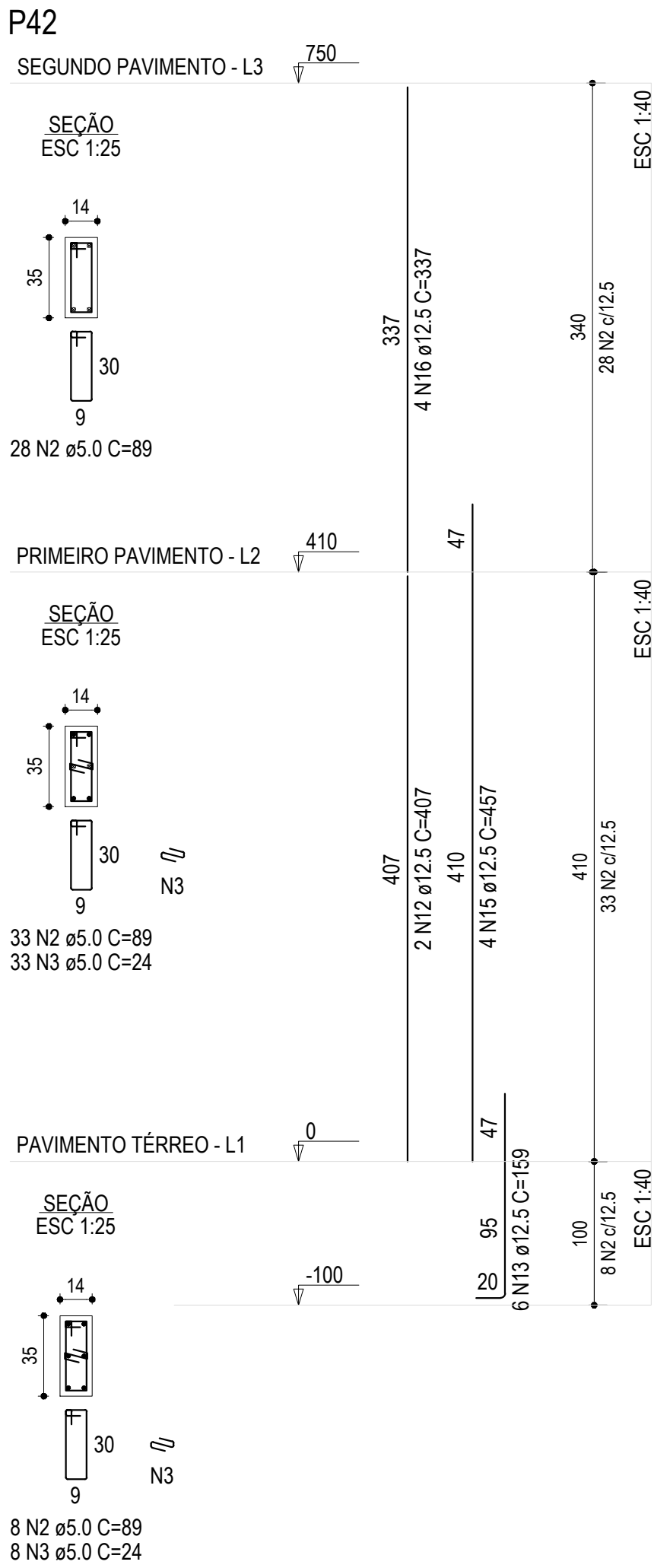
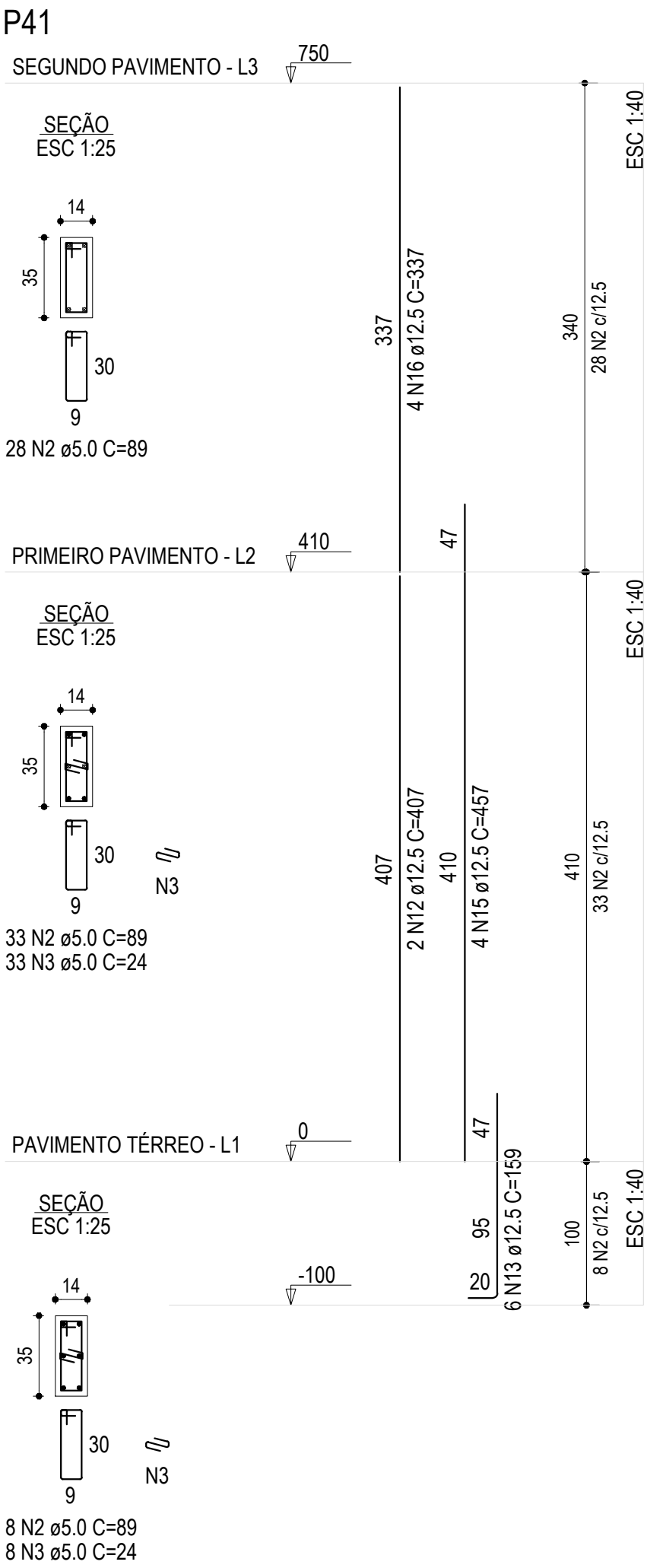
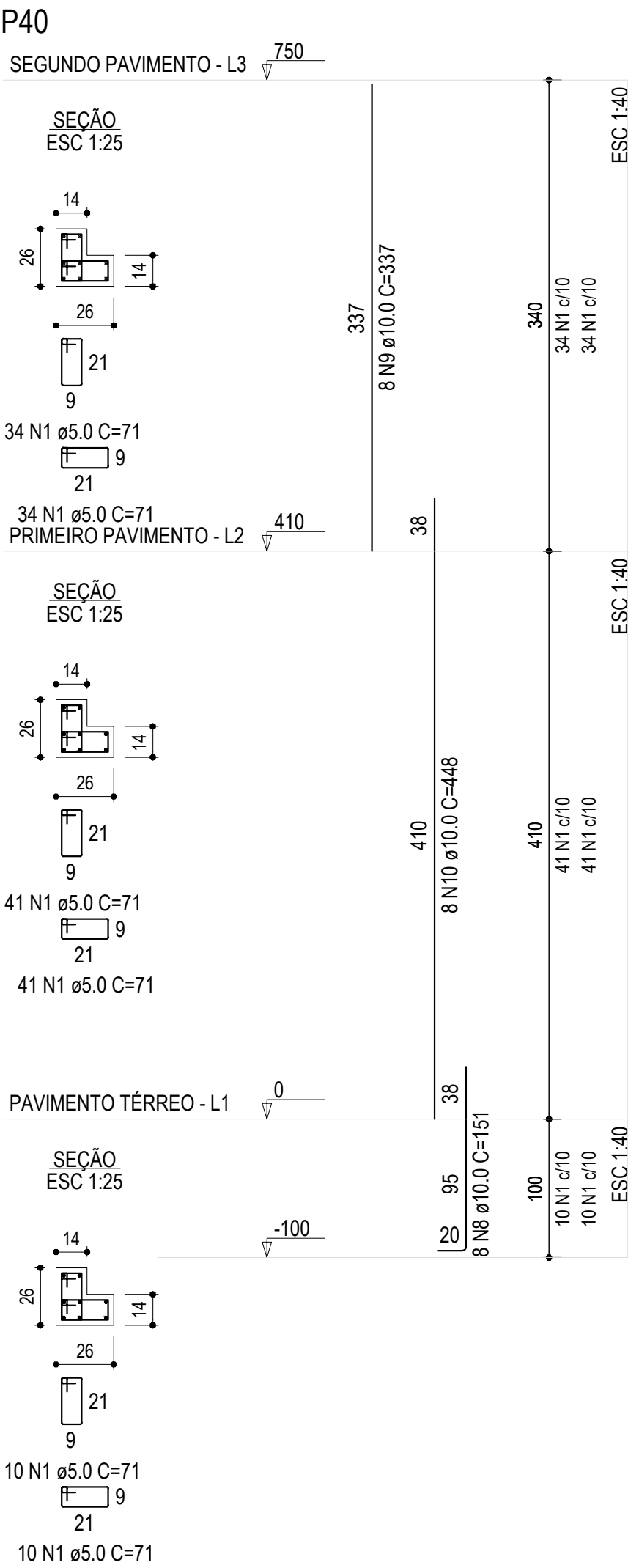
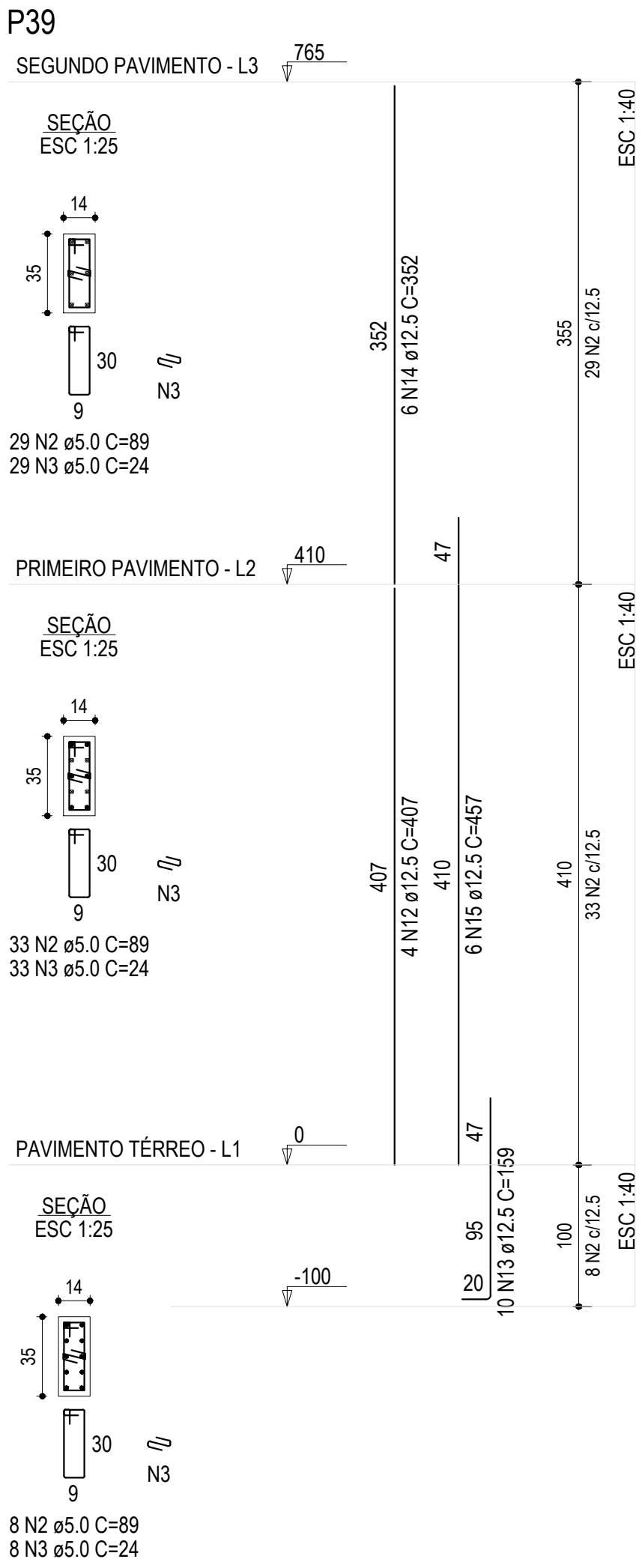
Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
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03



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Dados: 2025.02.20 11:58:24 -03'00'

RESP. TÉCNICO

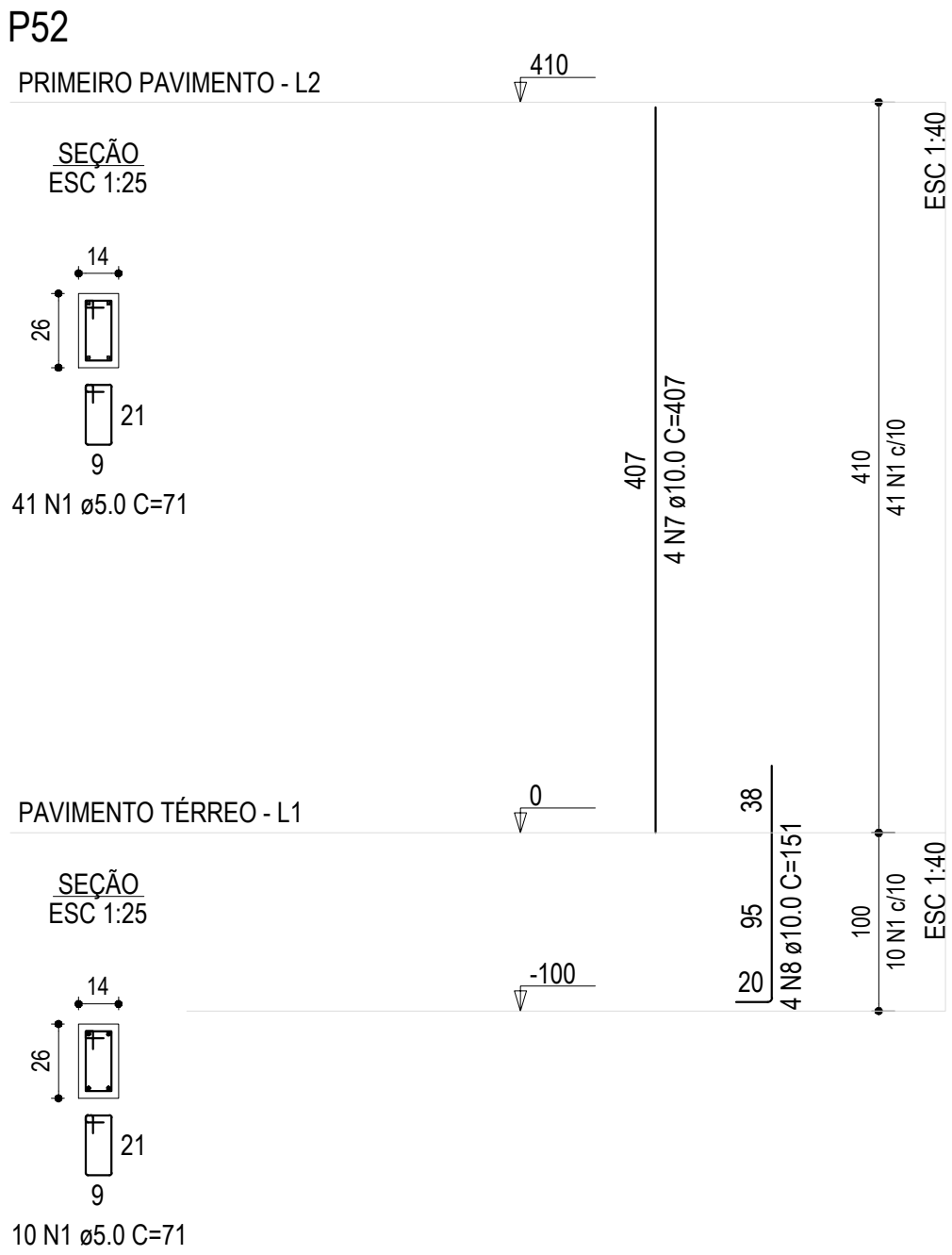
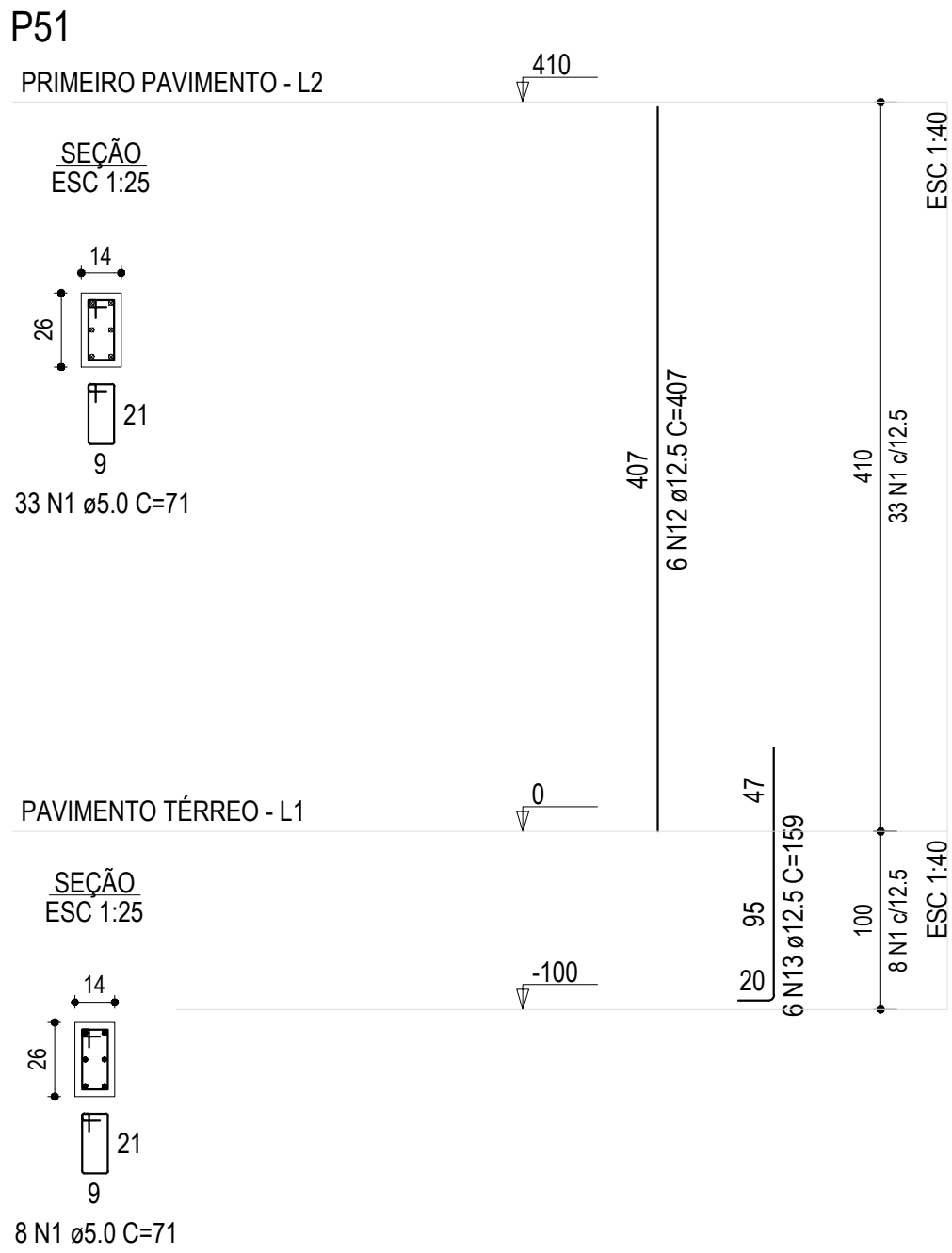
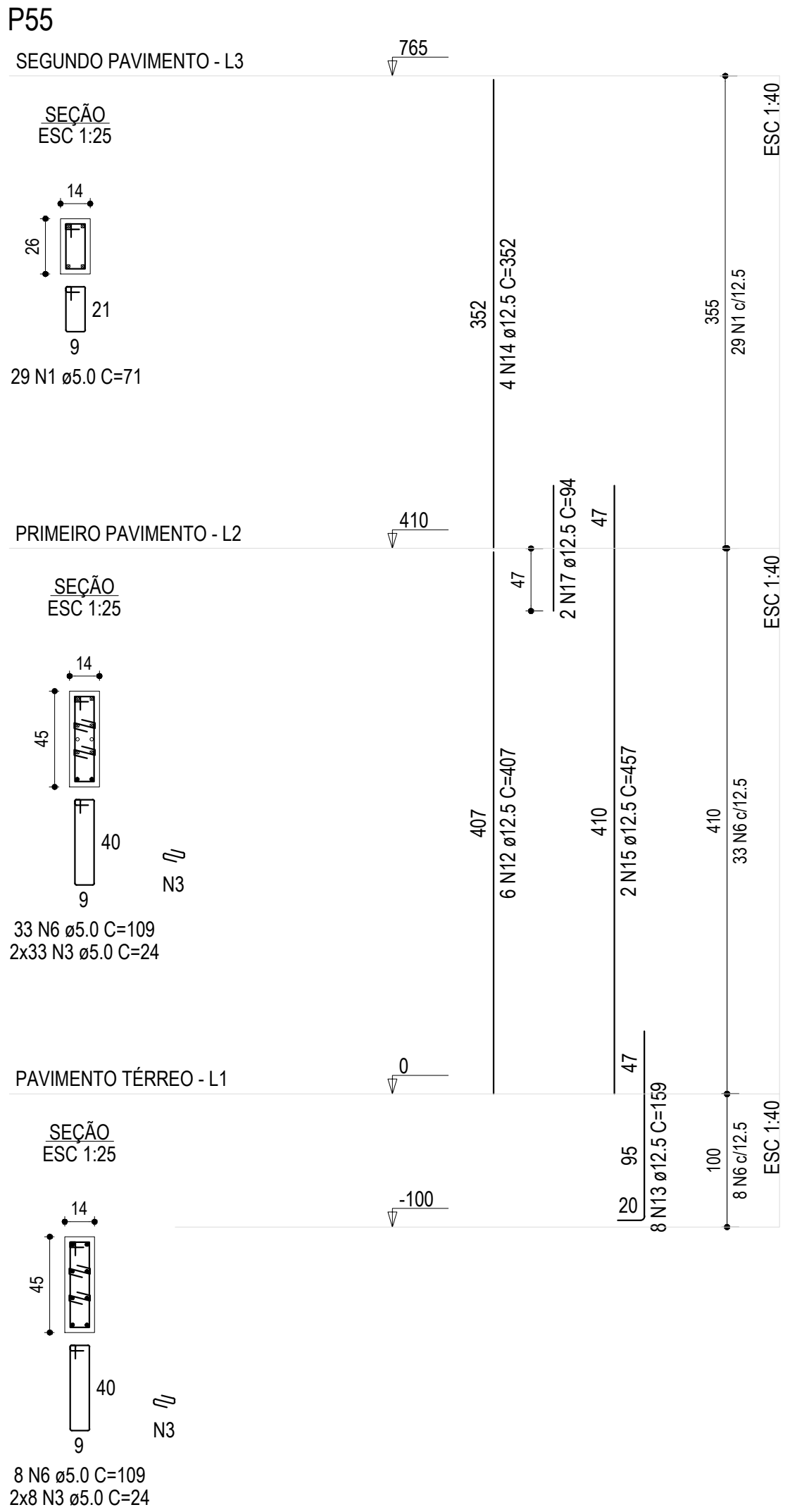
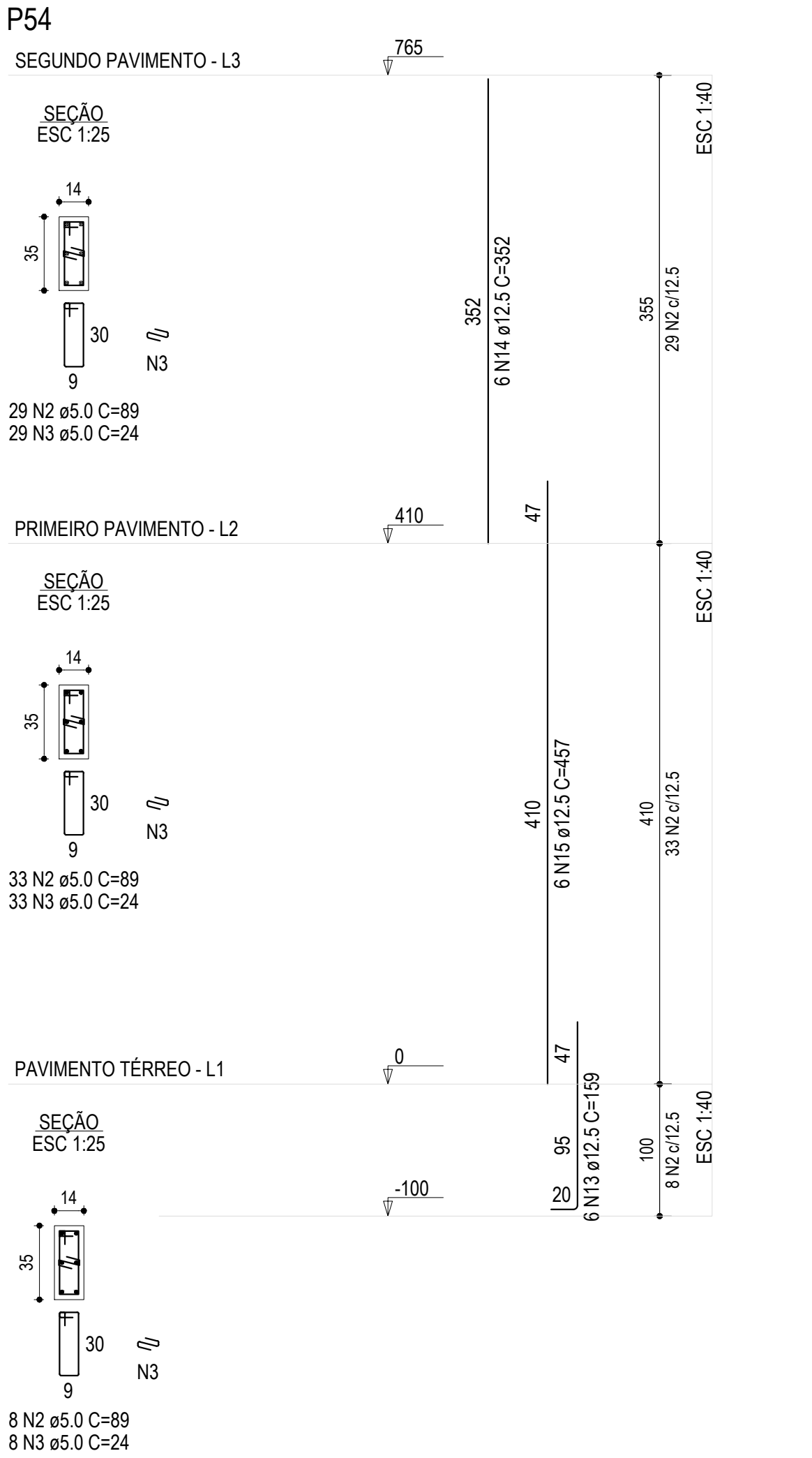
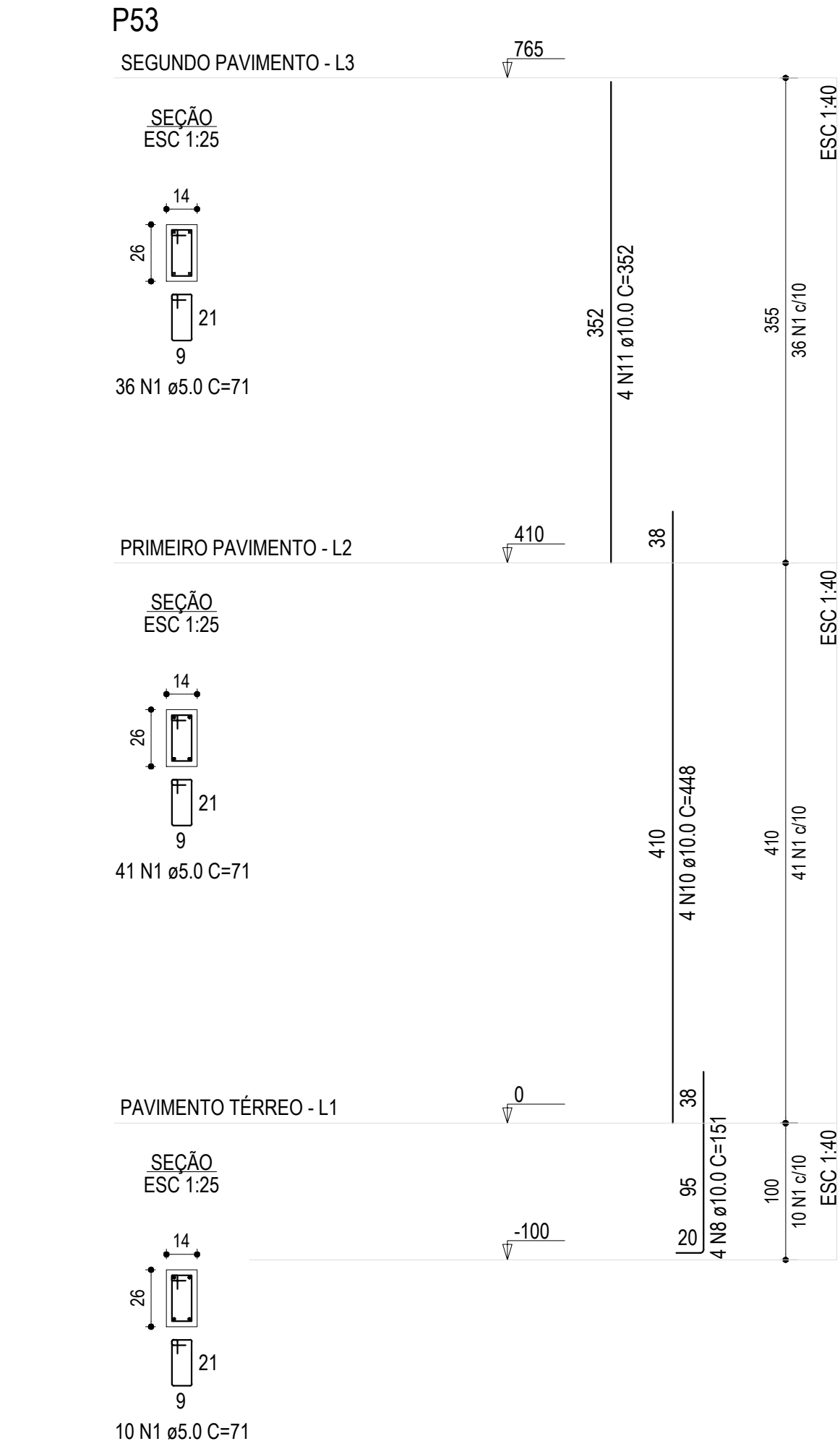
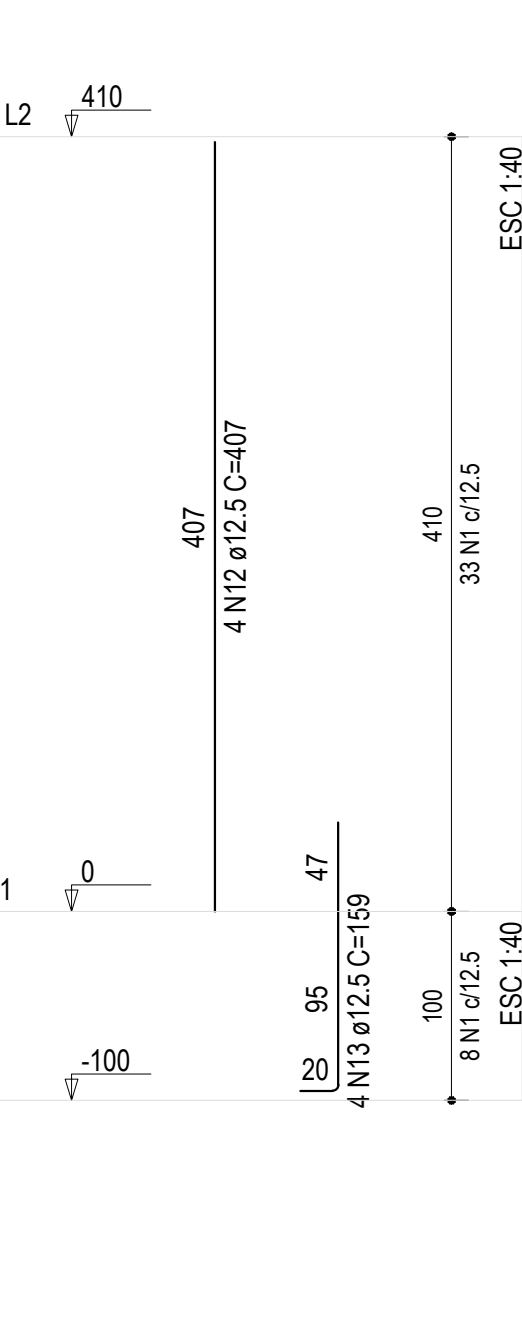
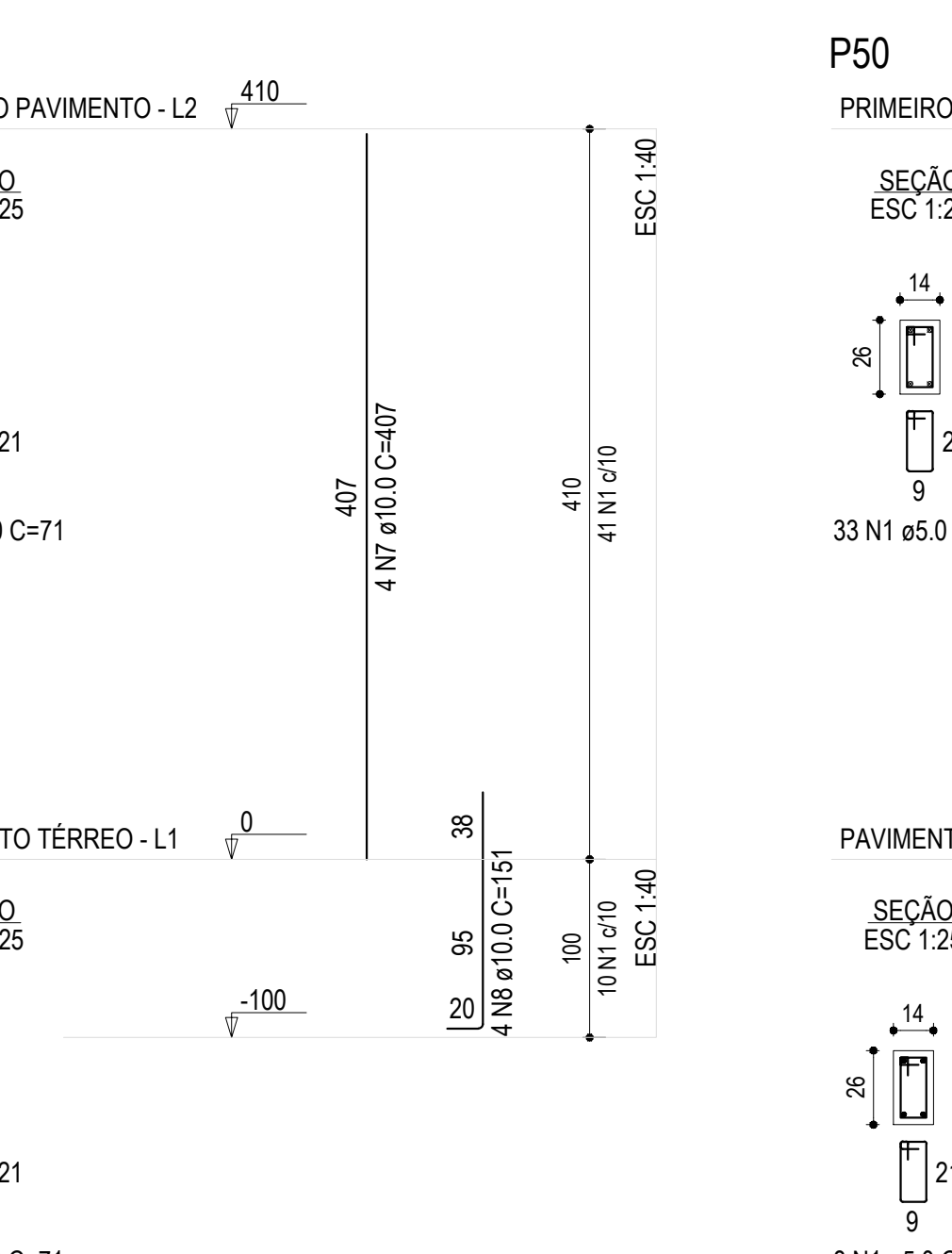
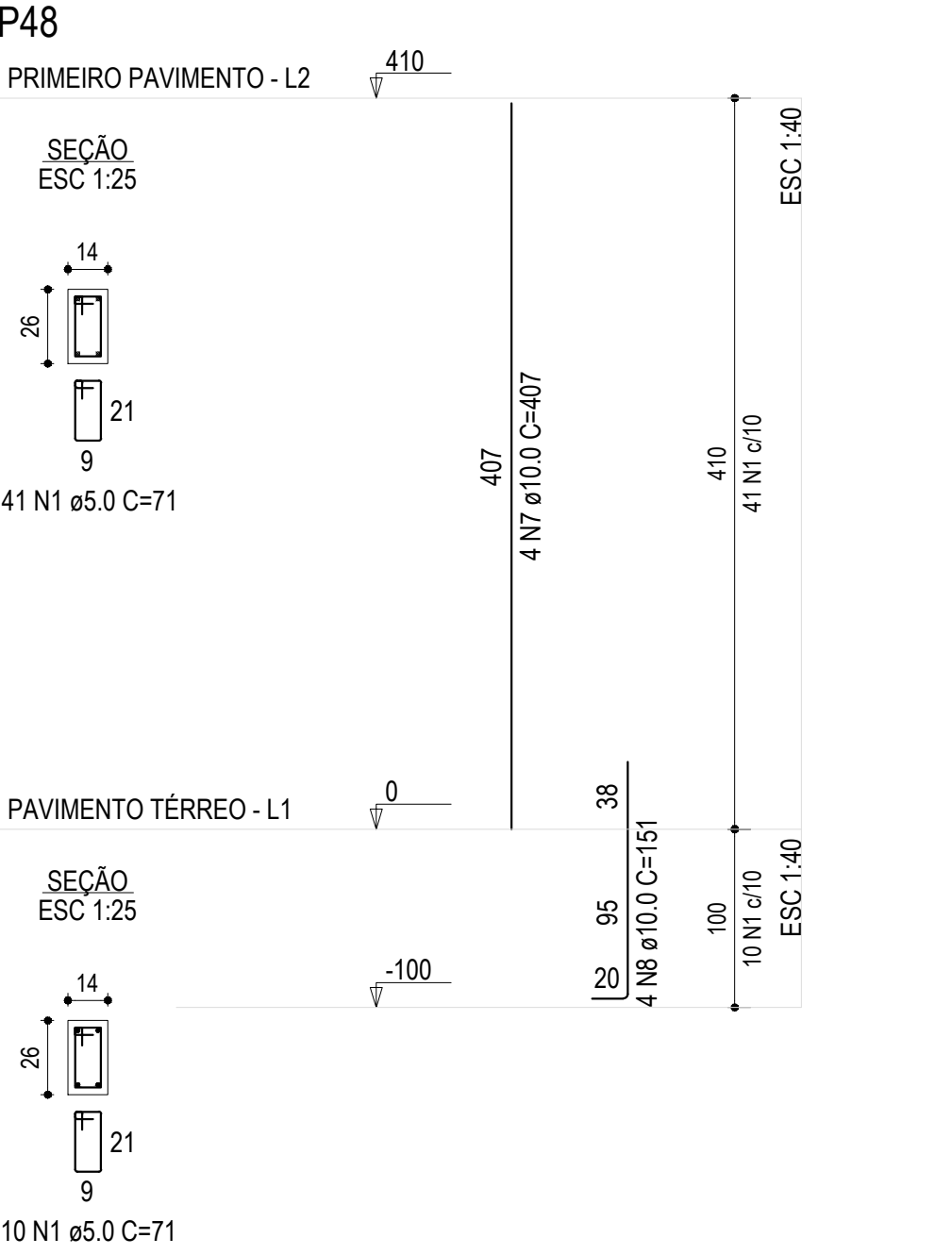
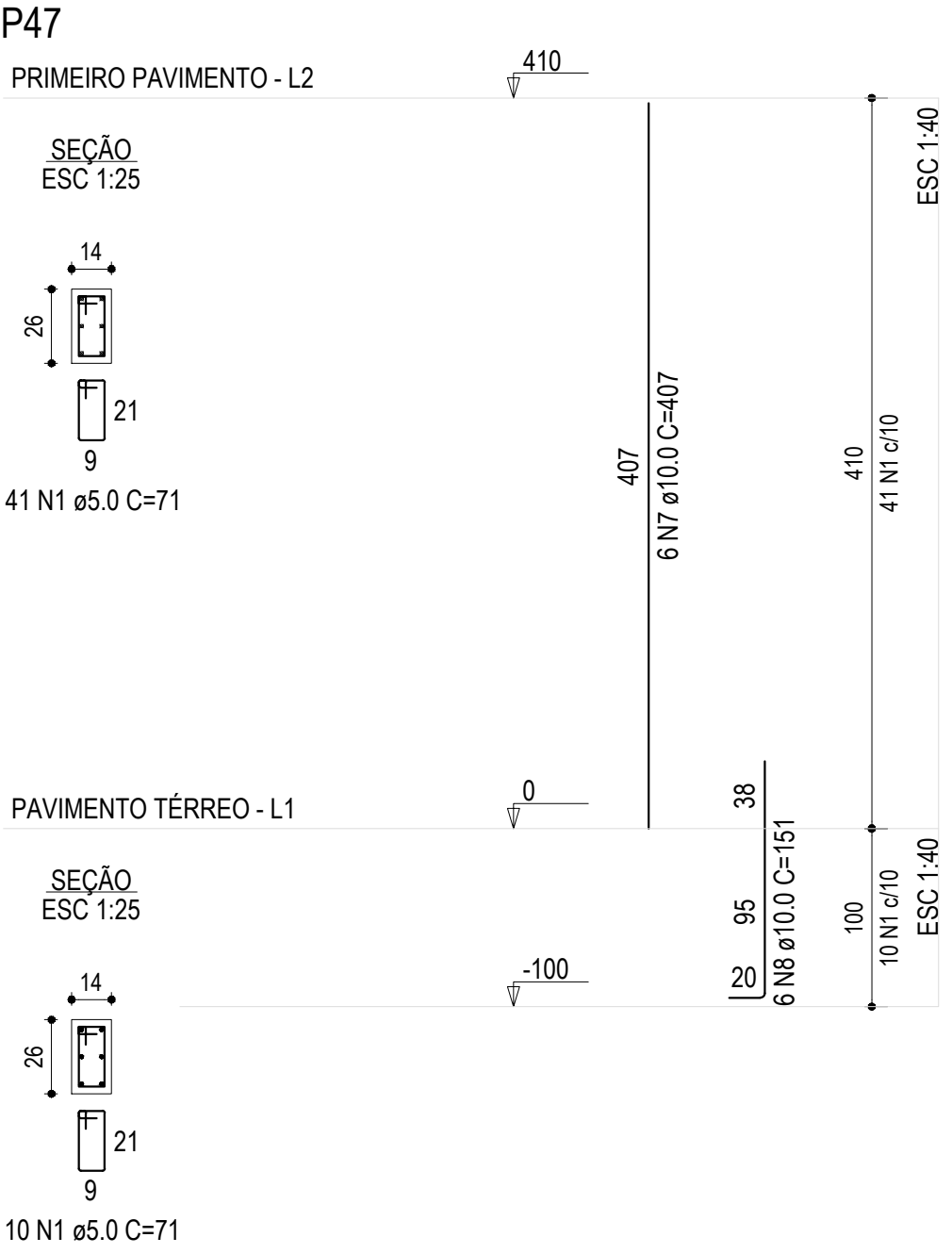
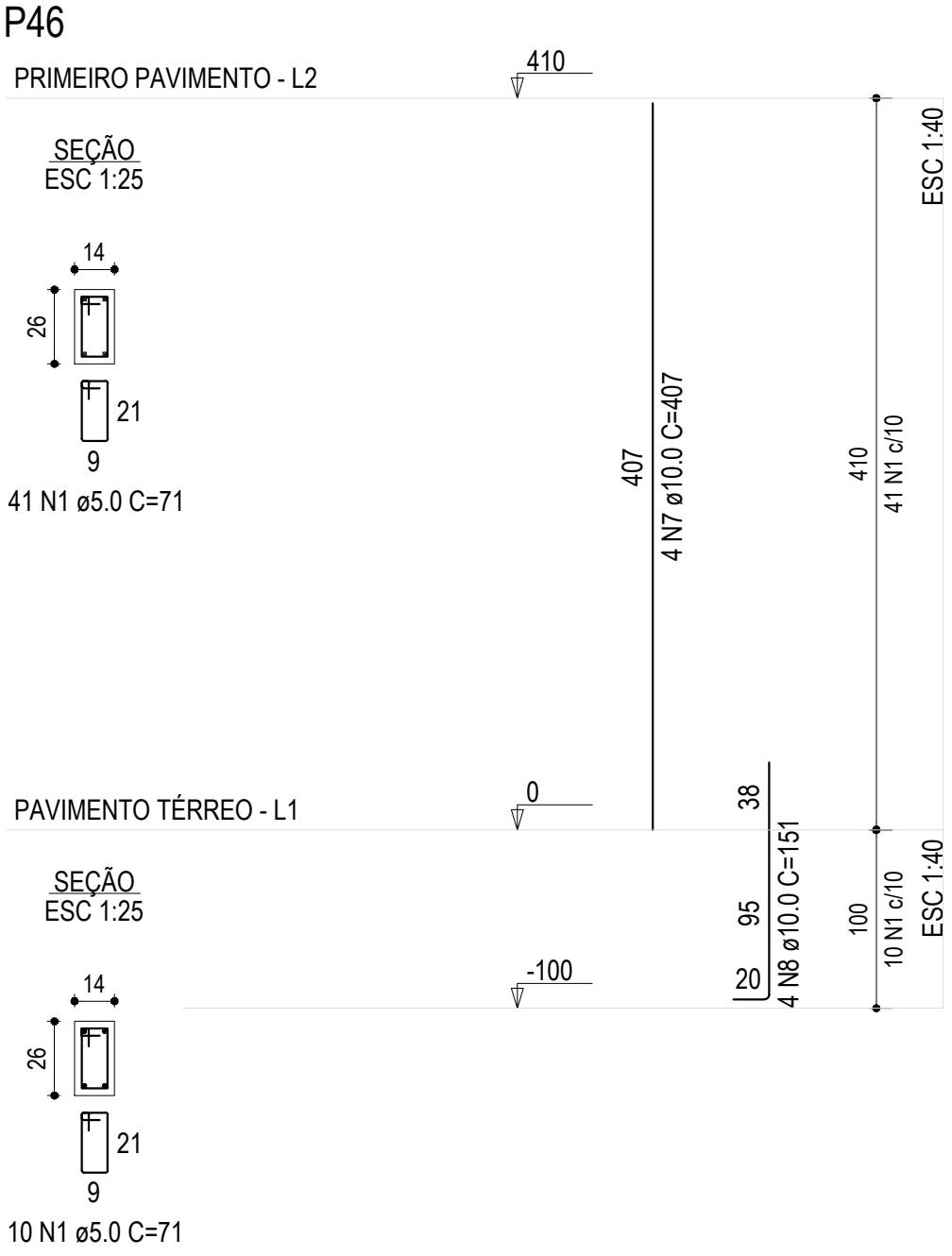
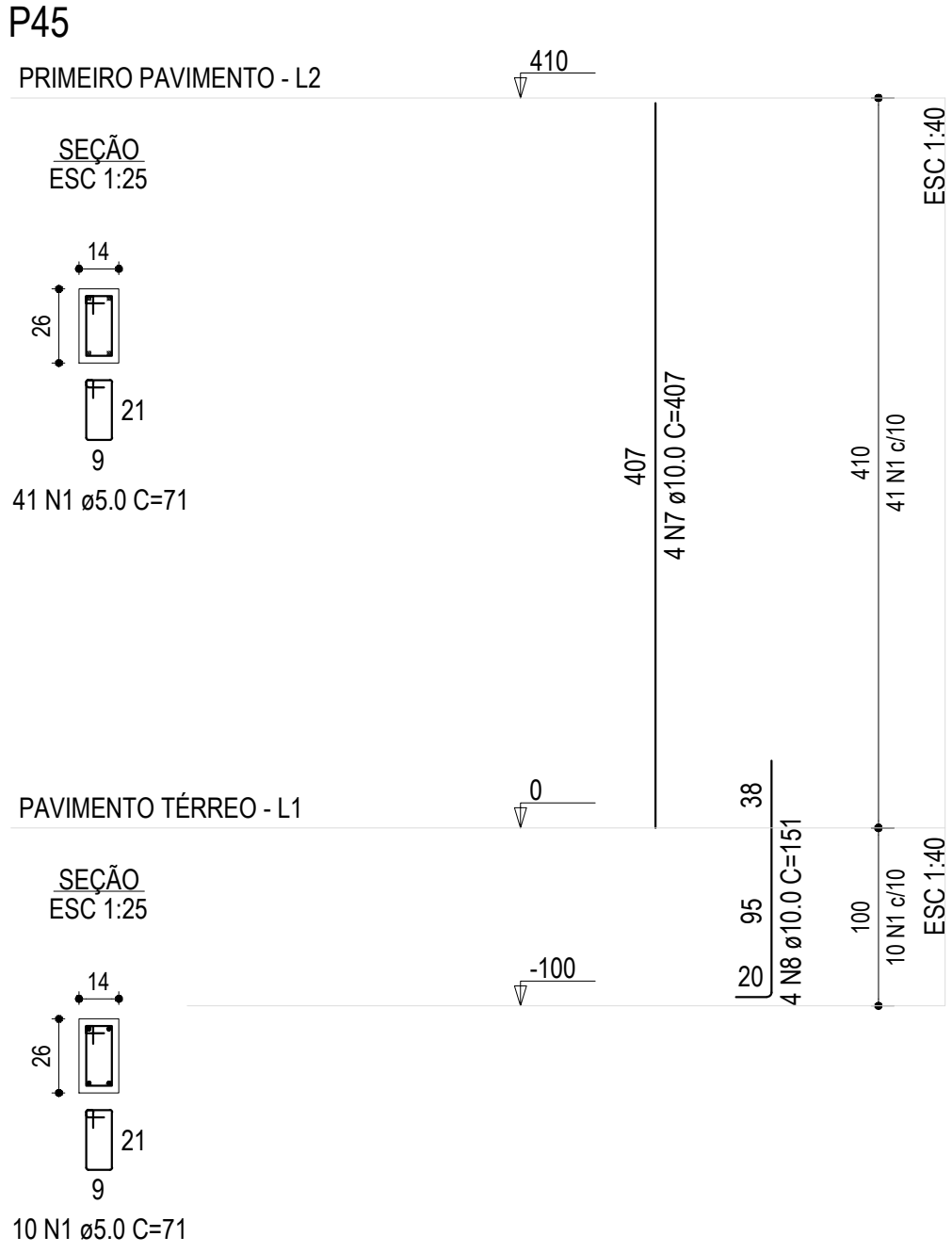
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04



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Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
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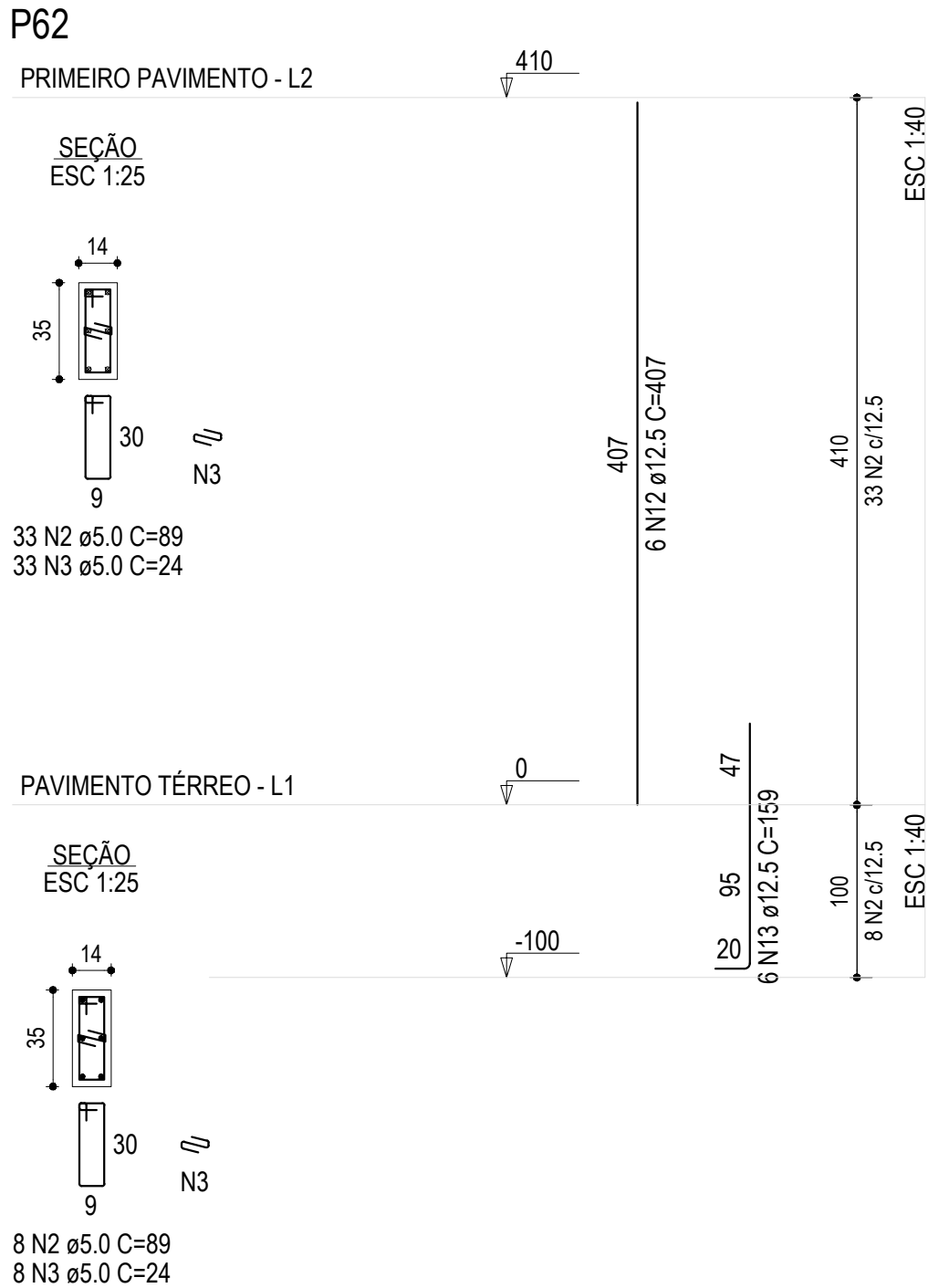
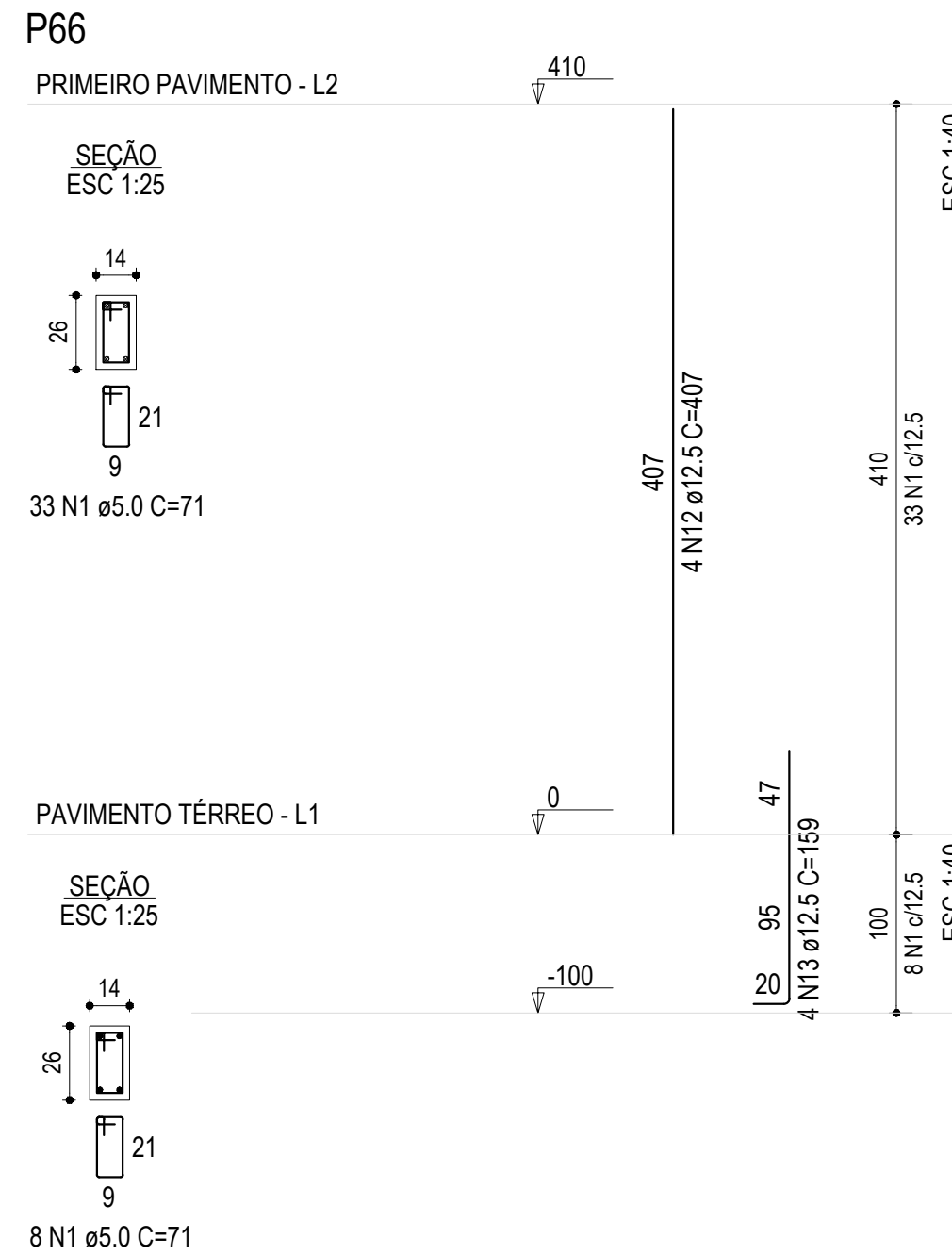
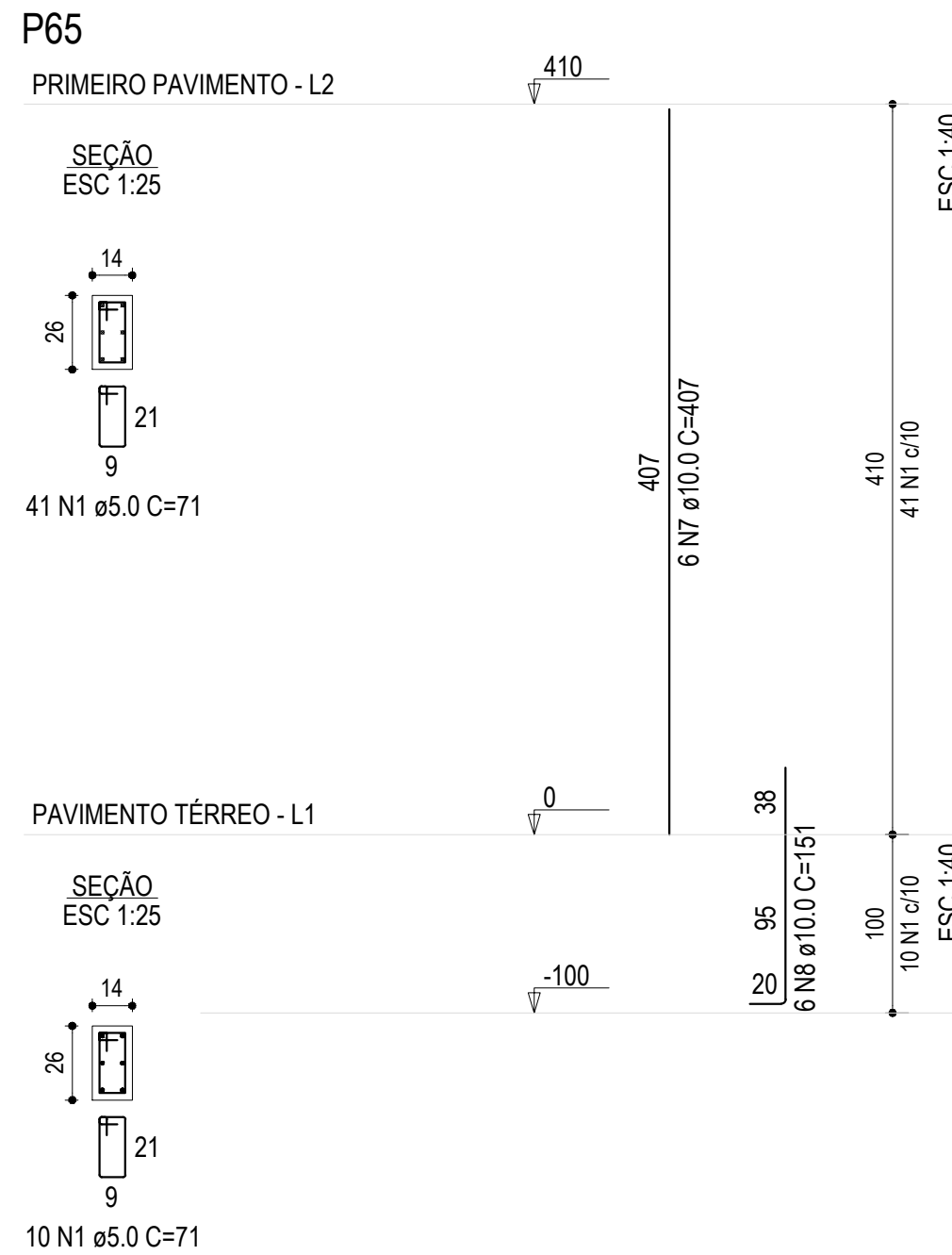
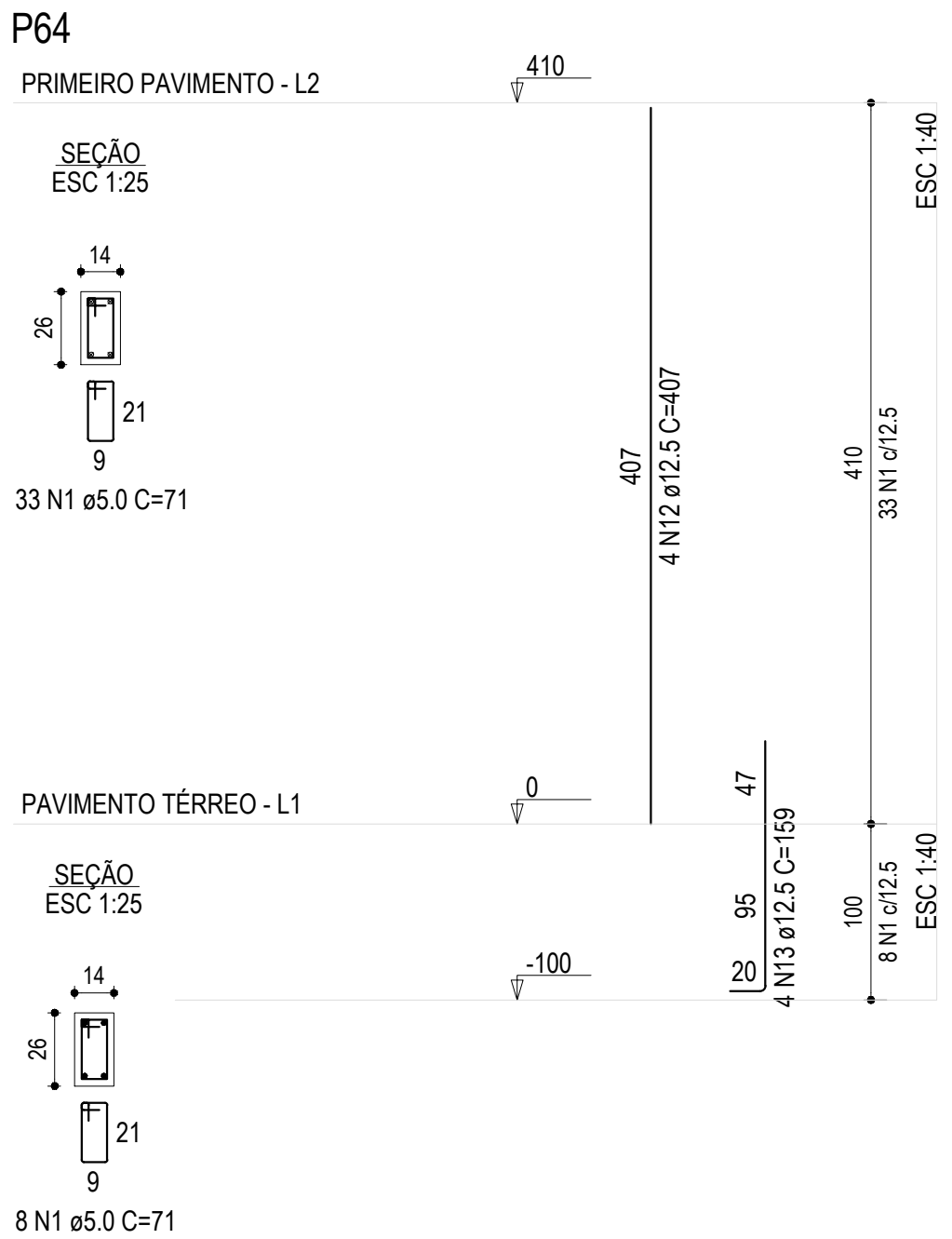
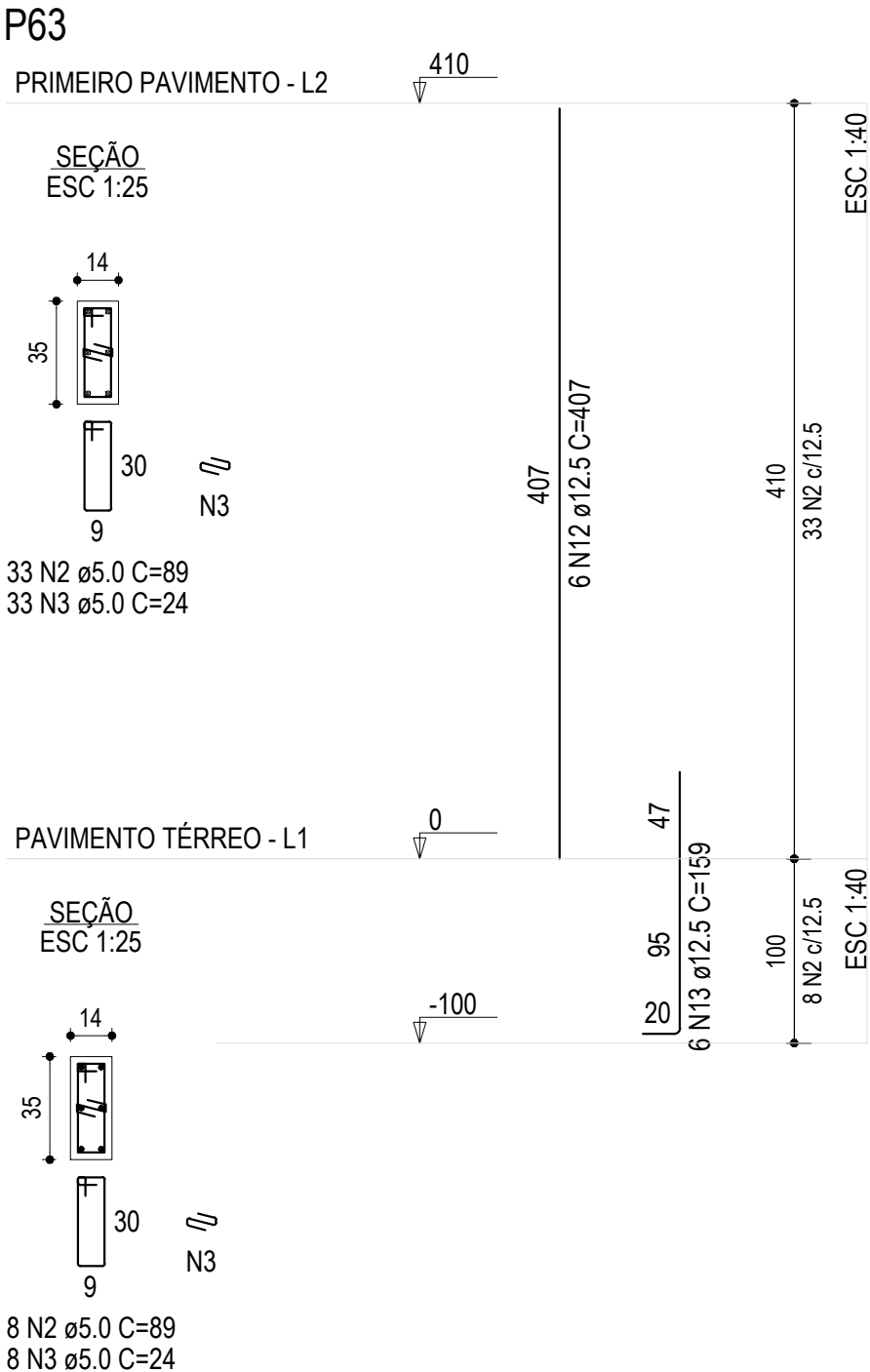
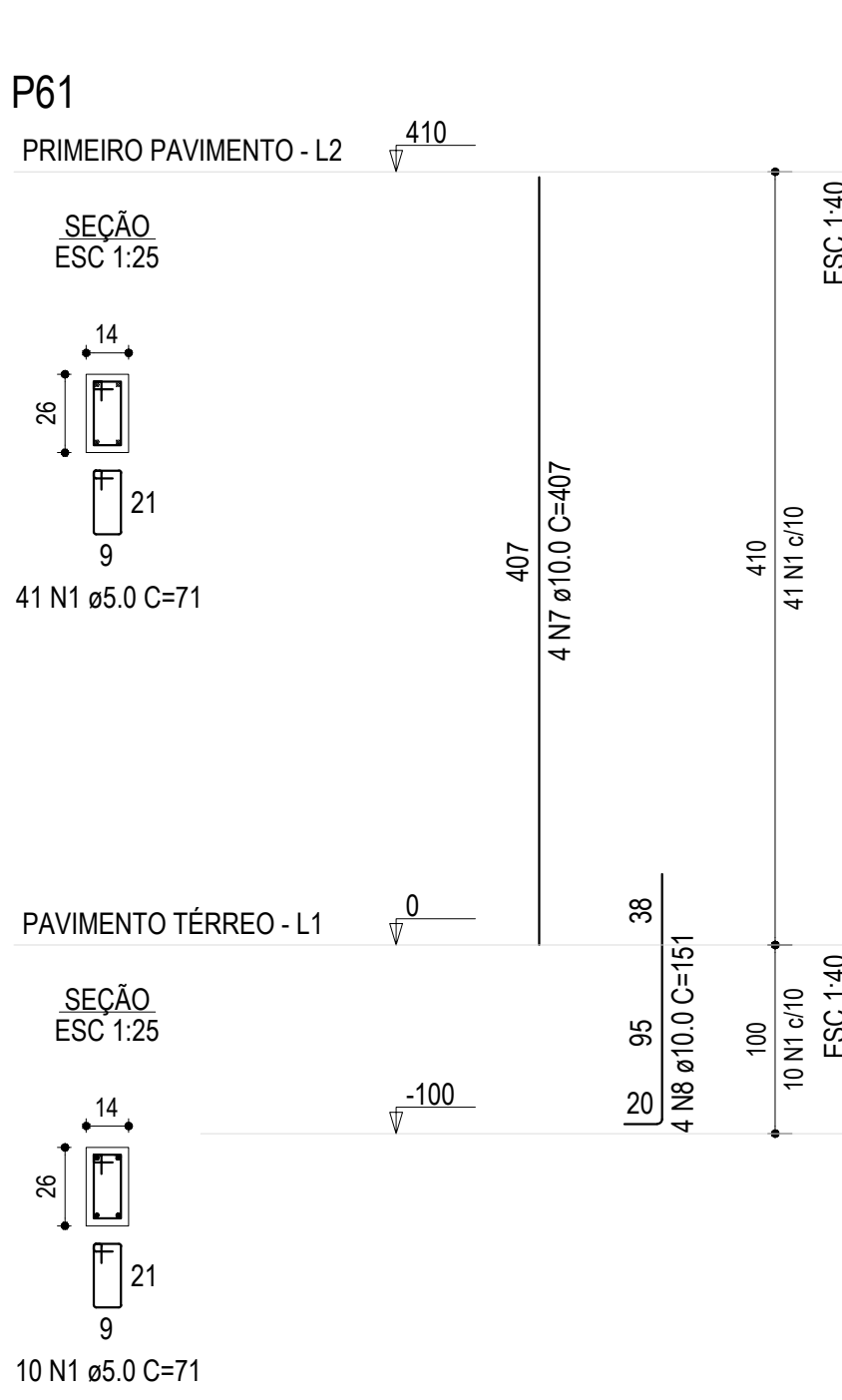
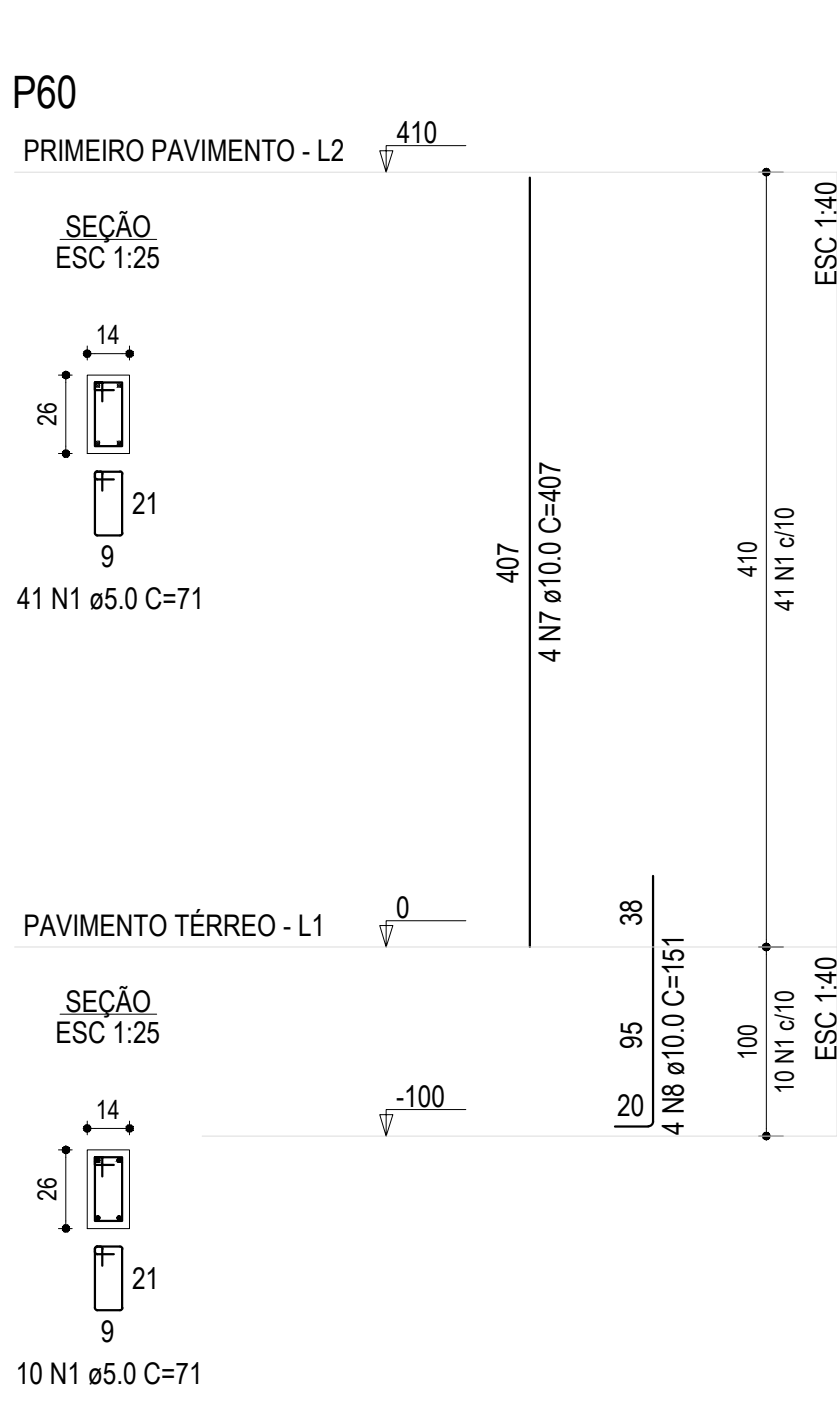
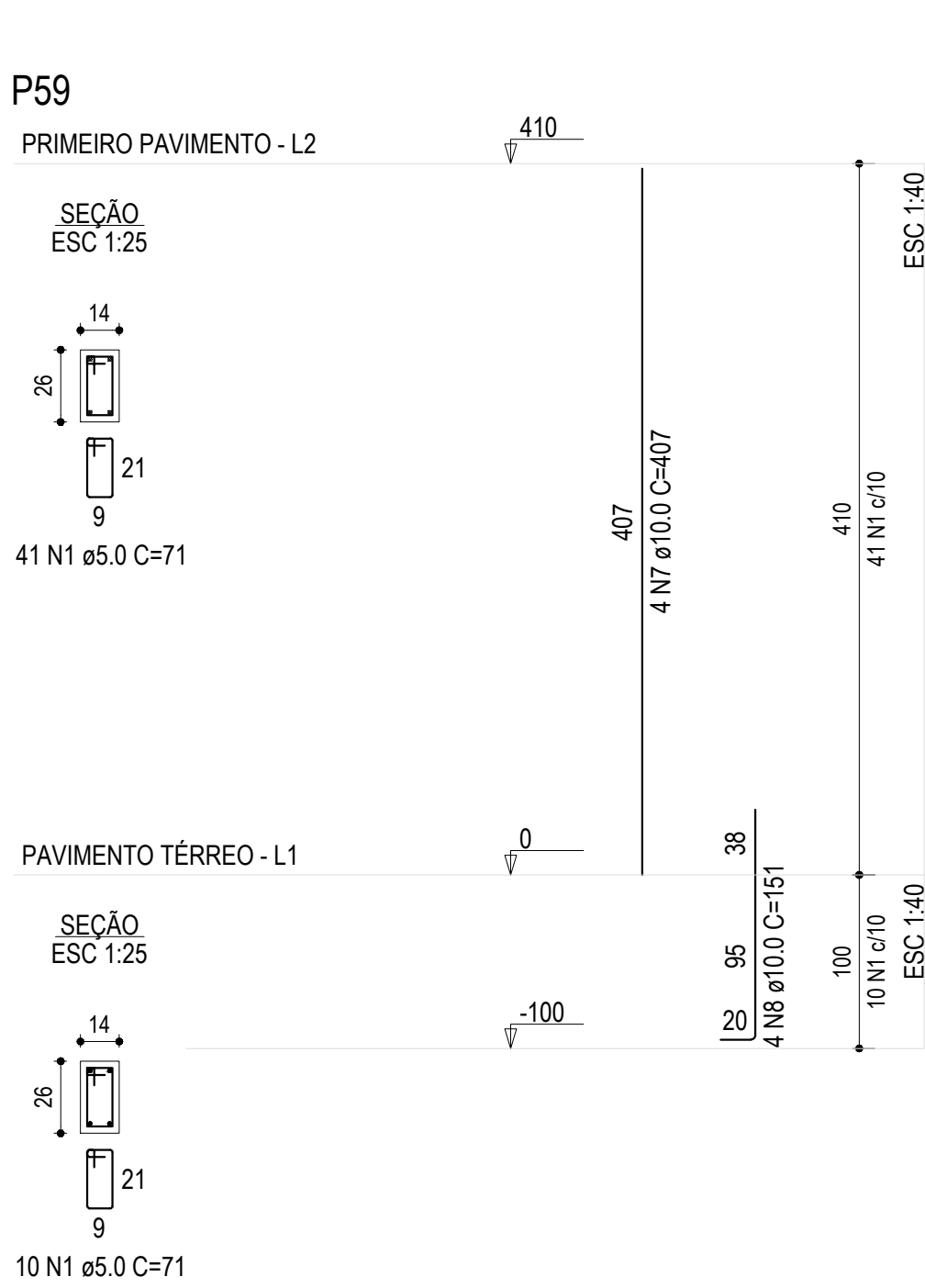
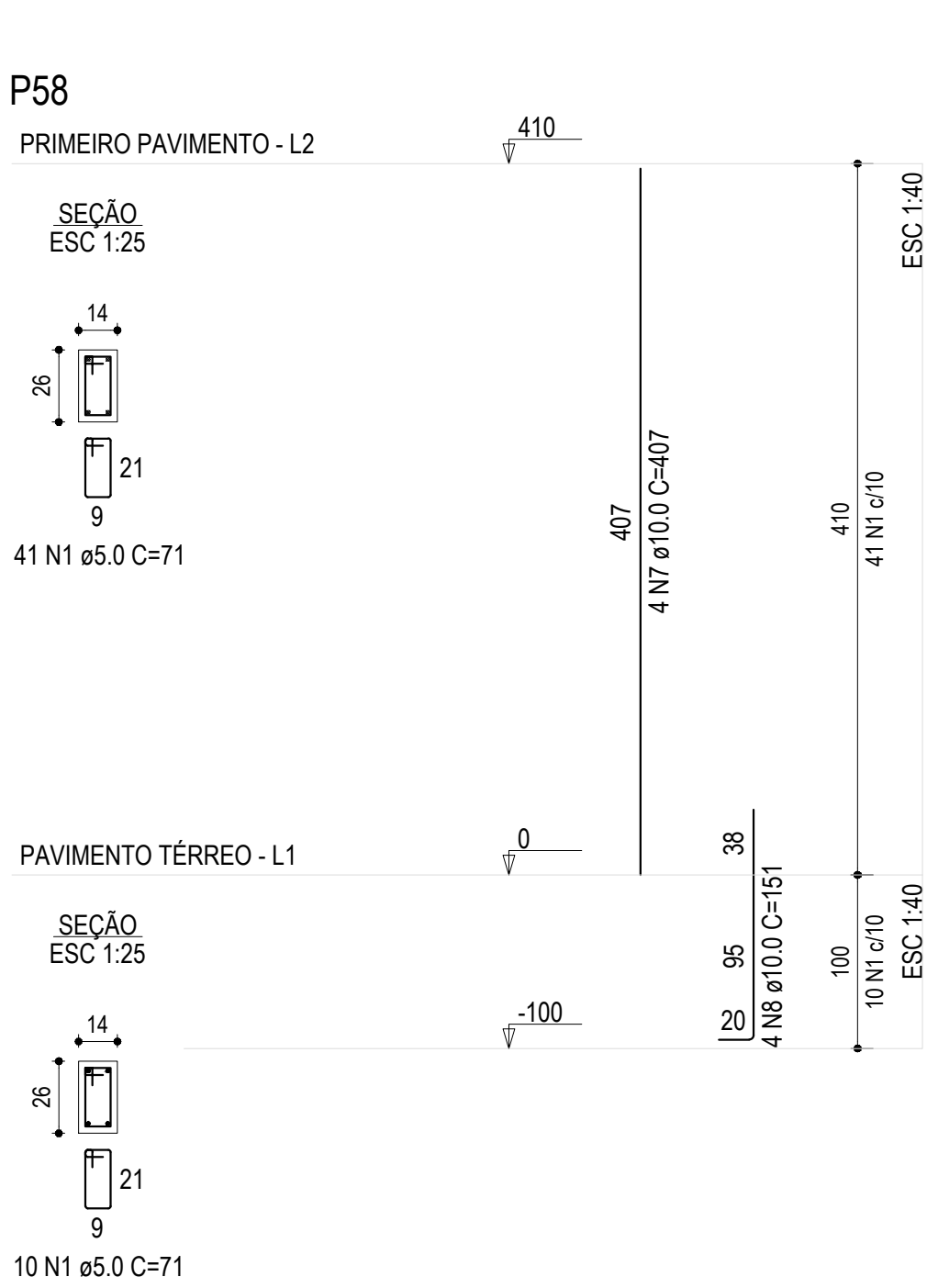
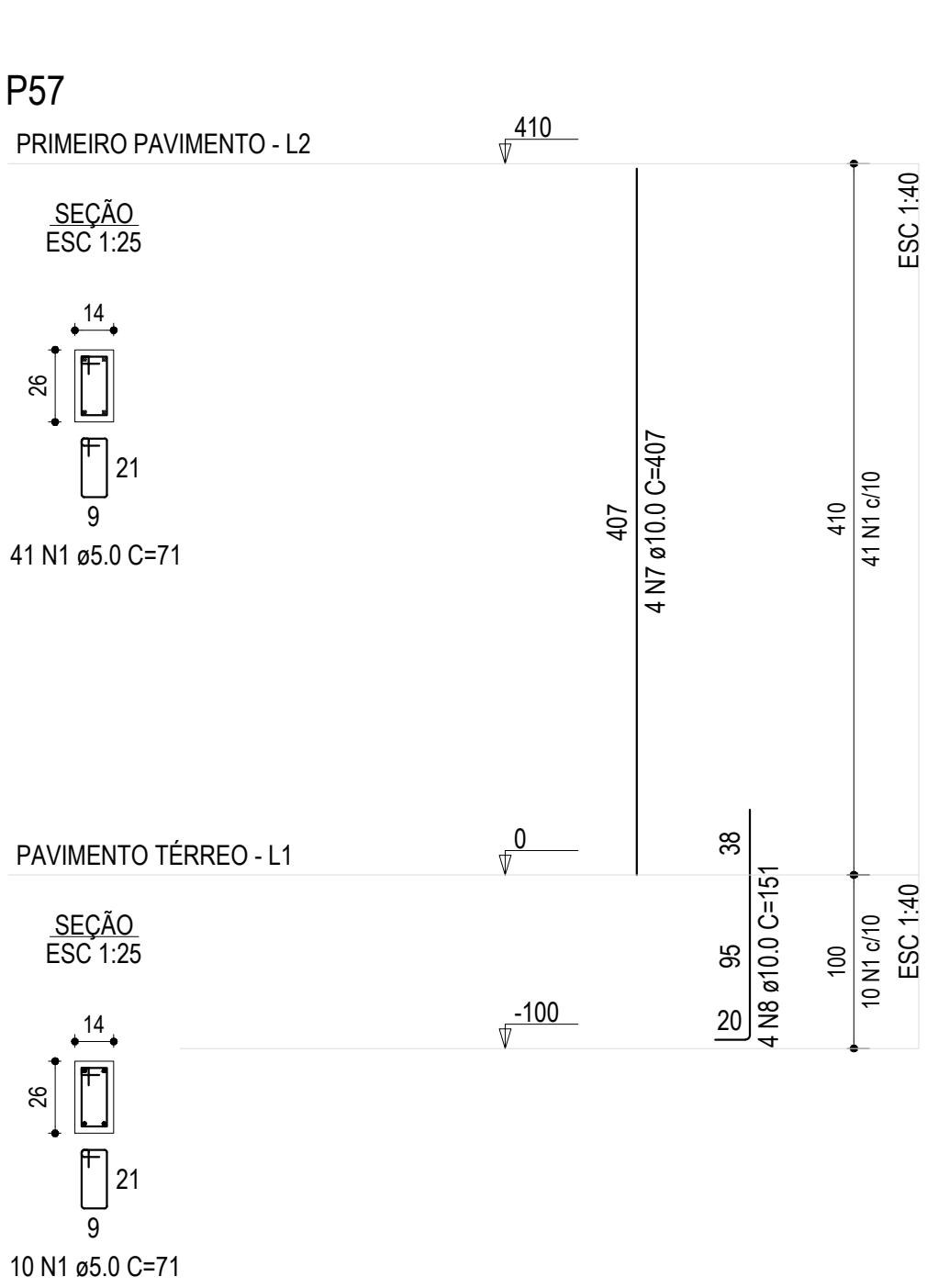
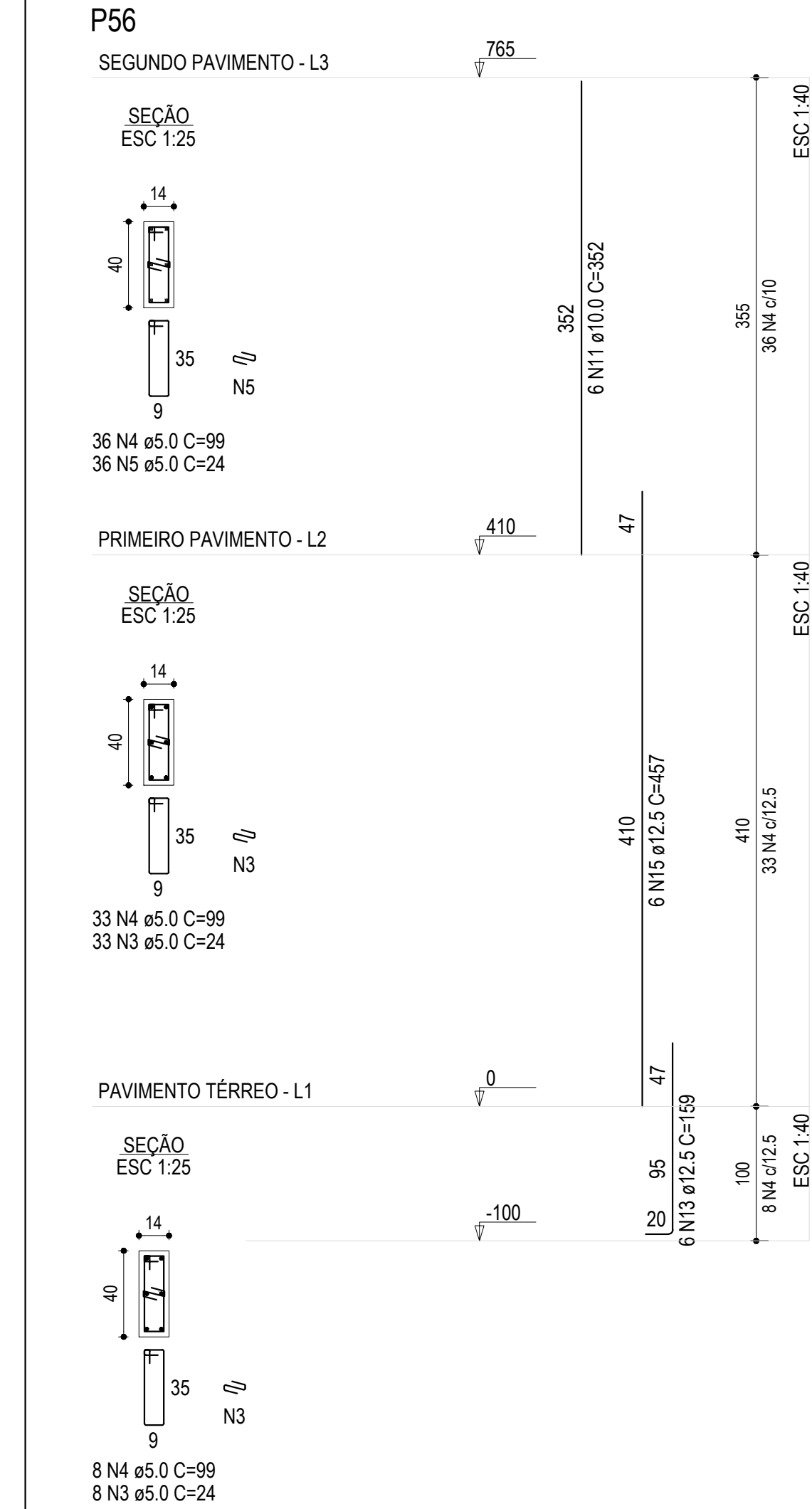
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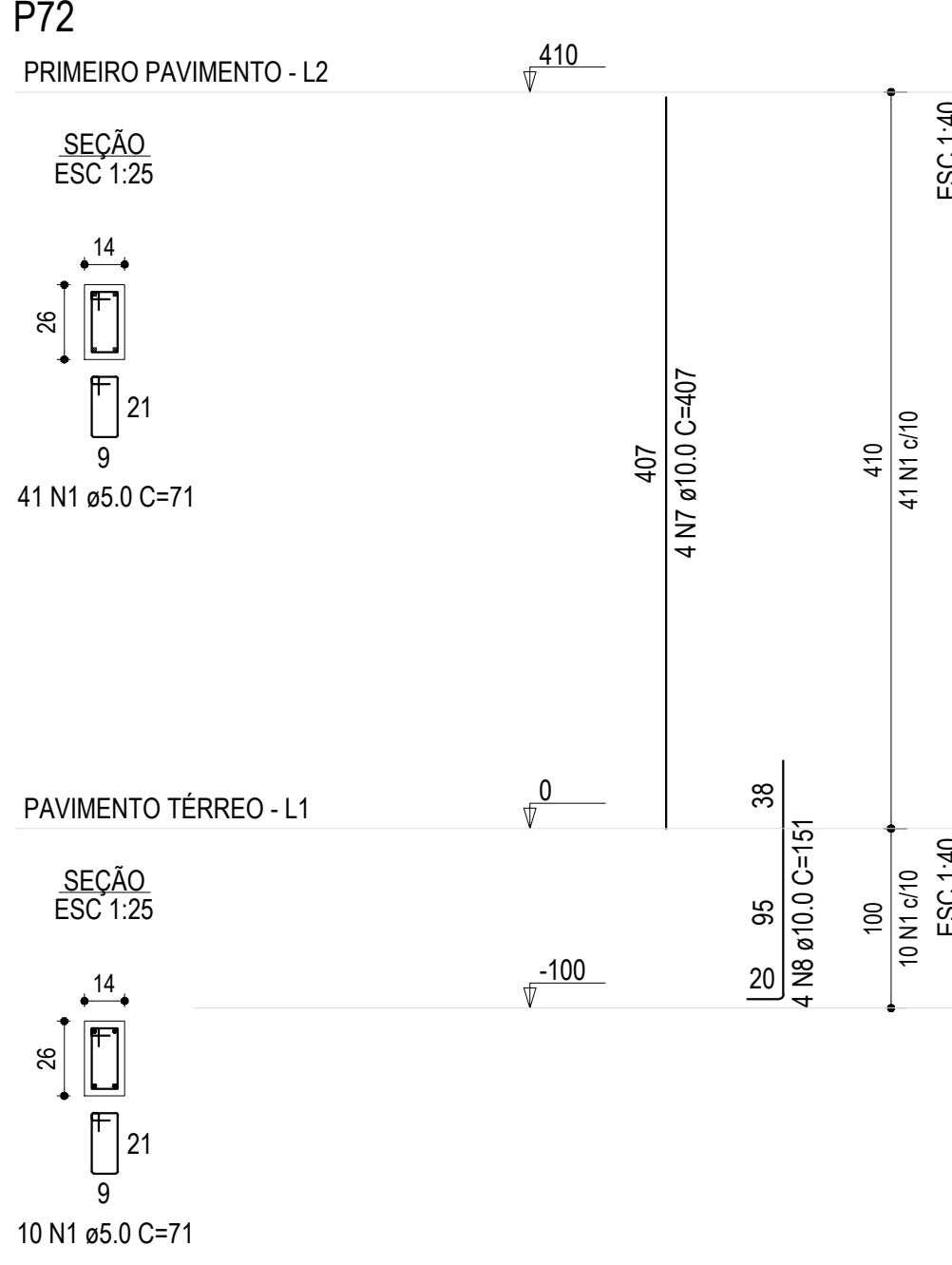
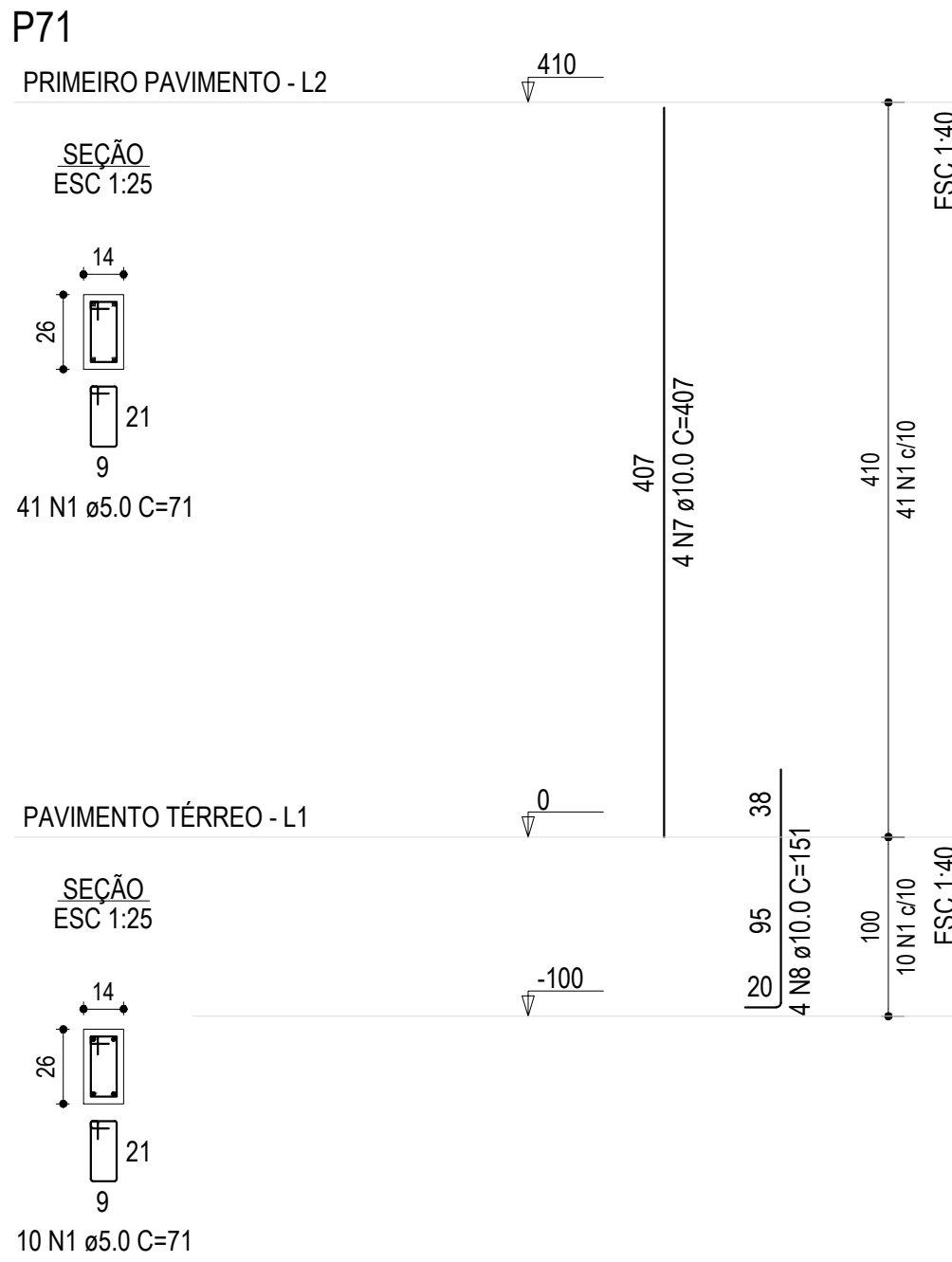
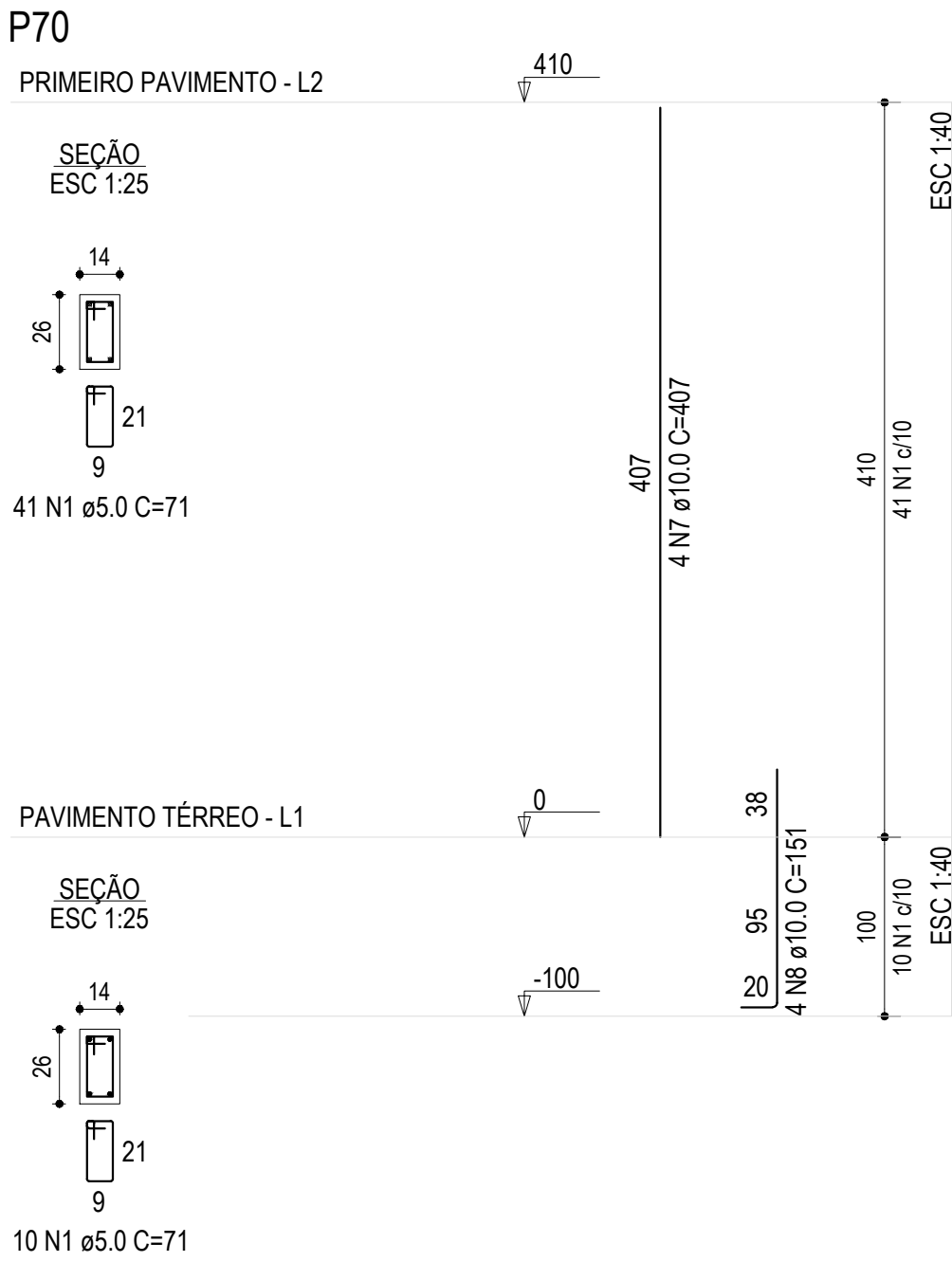
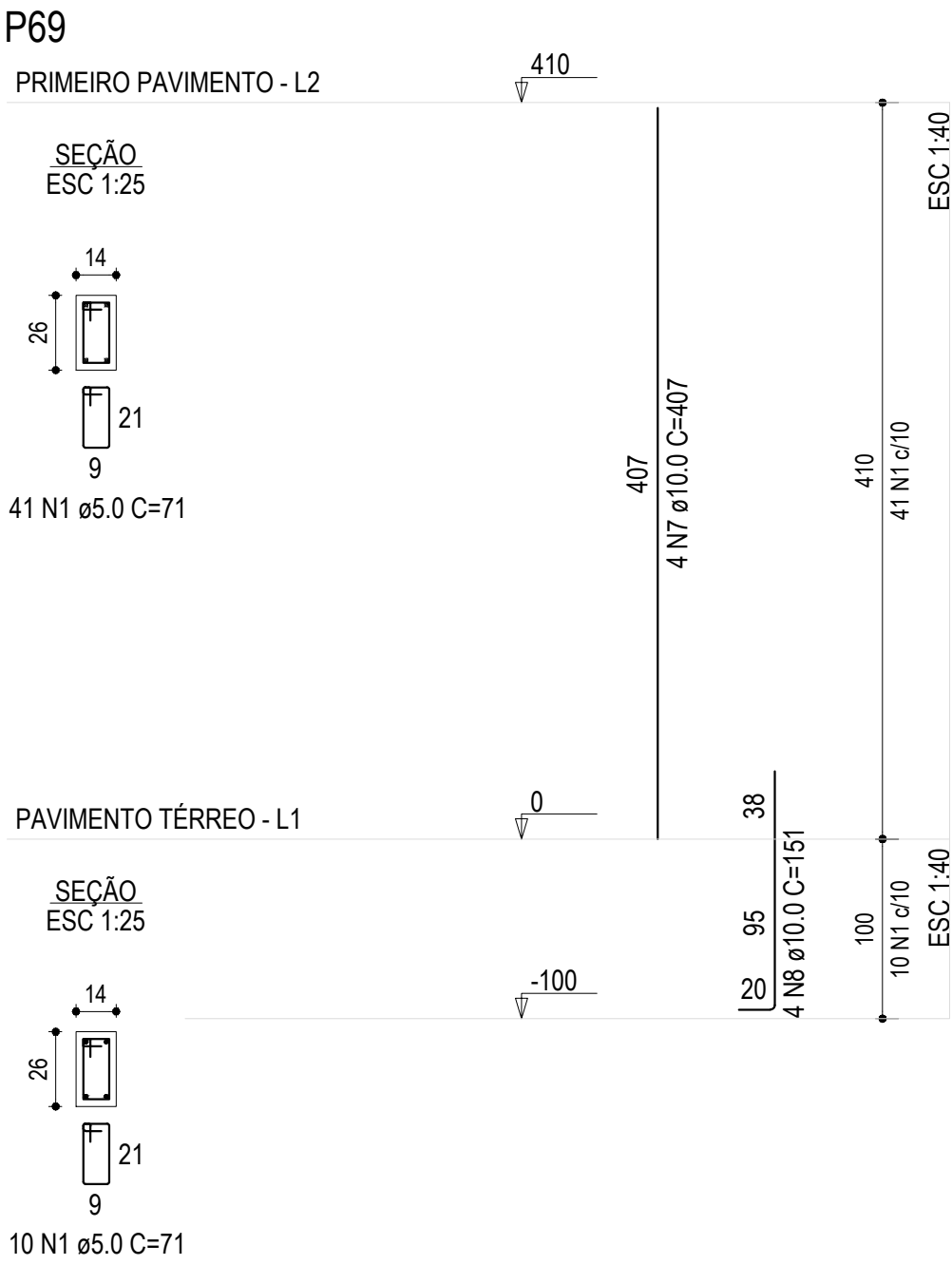
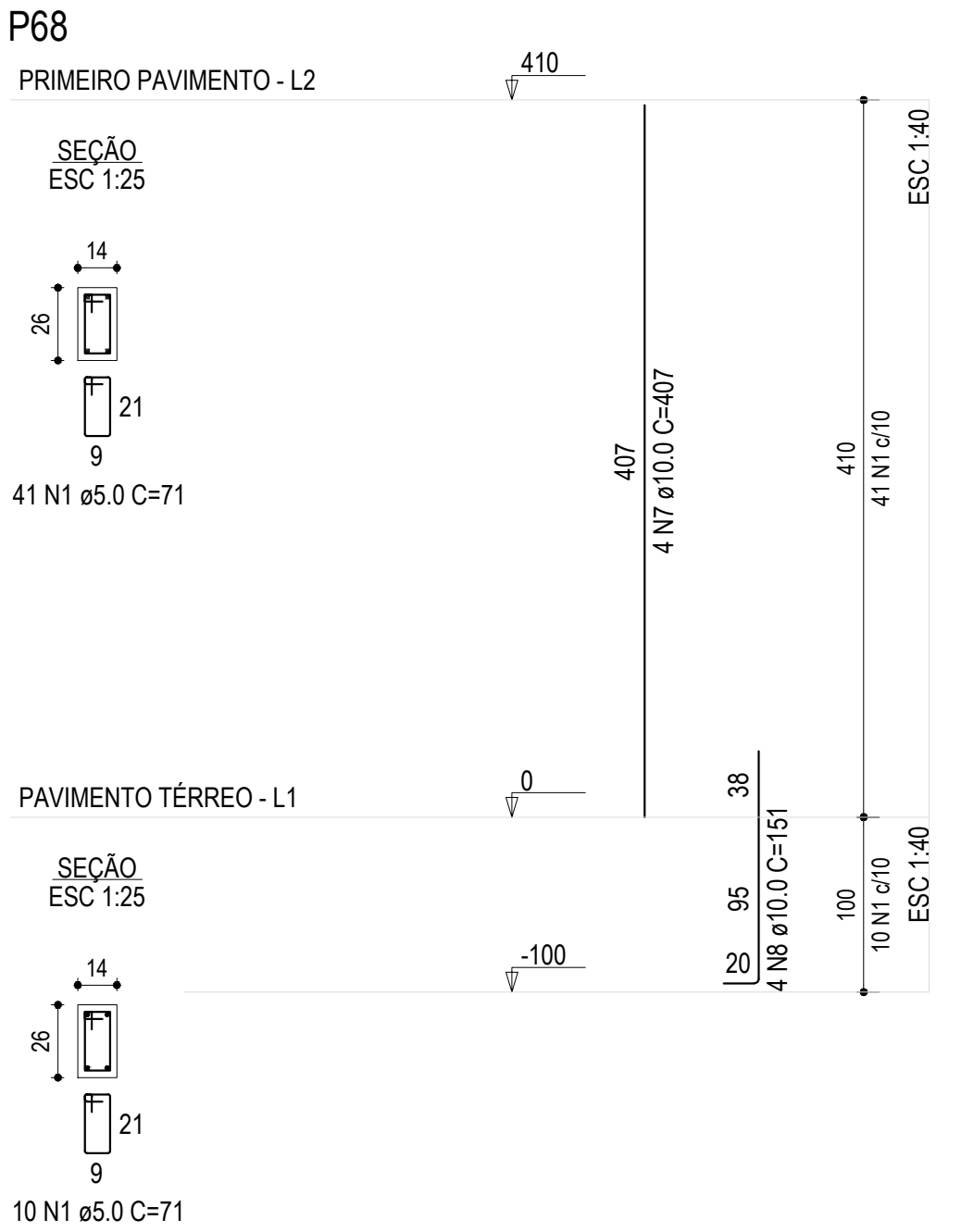
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06

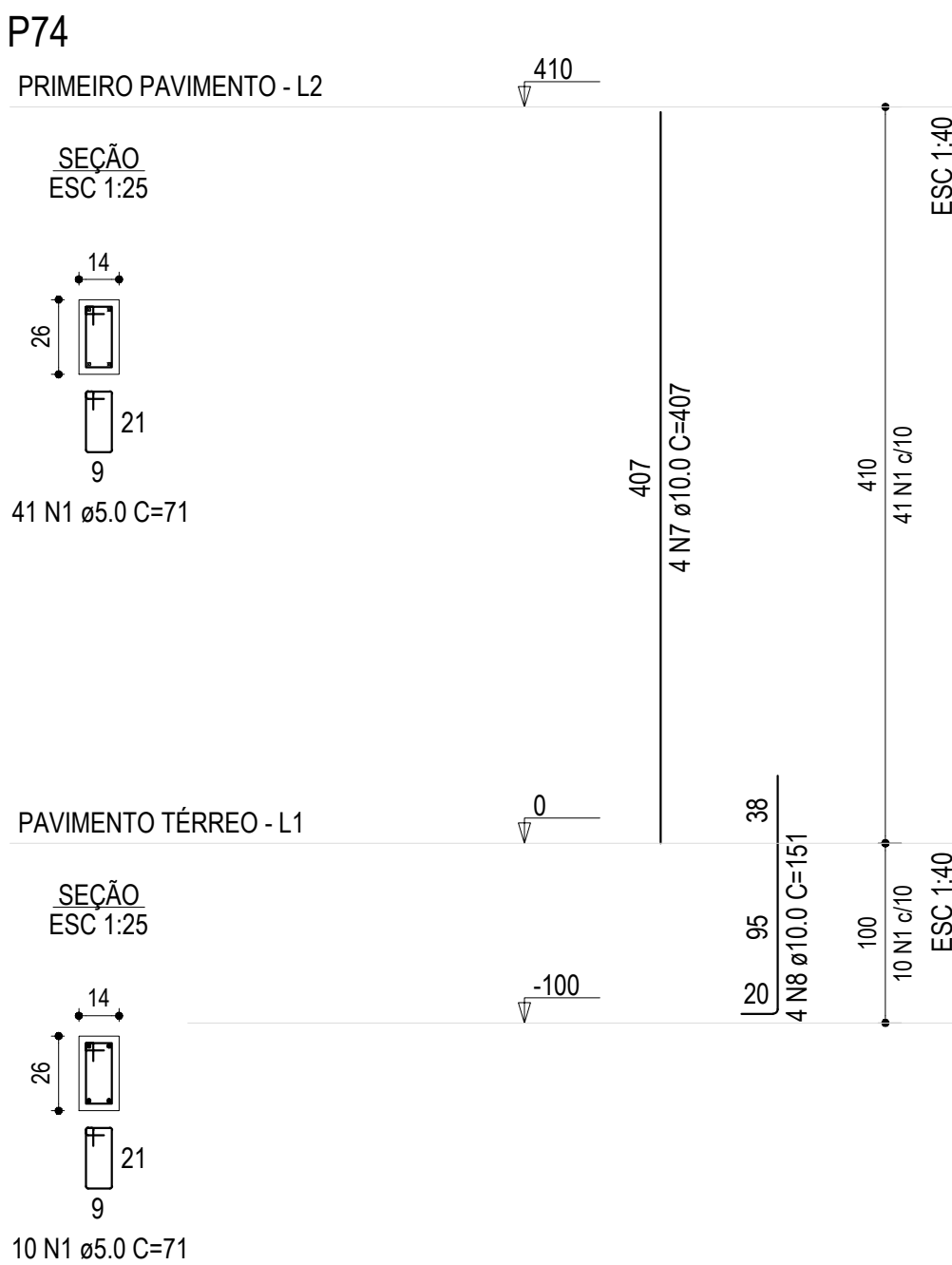
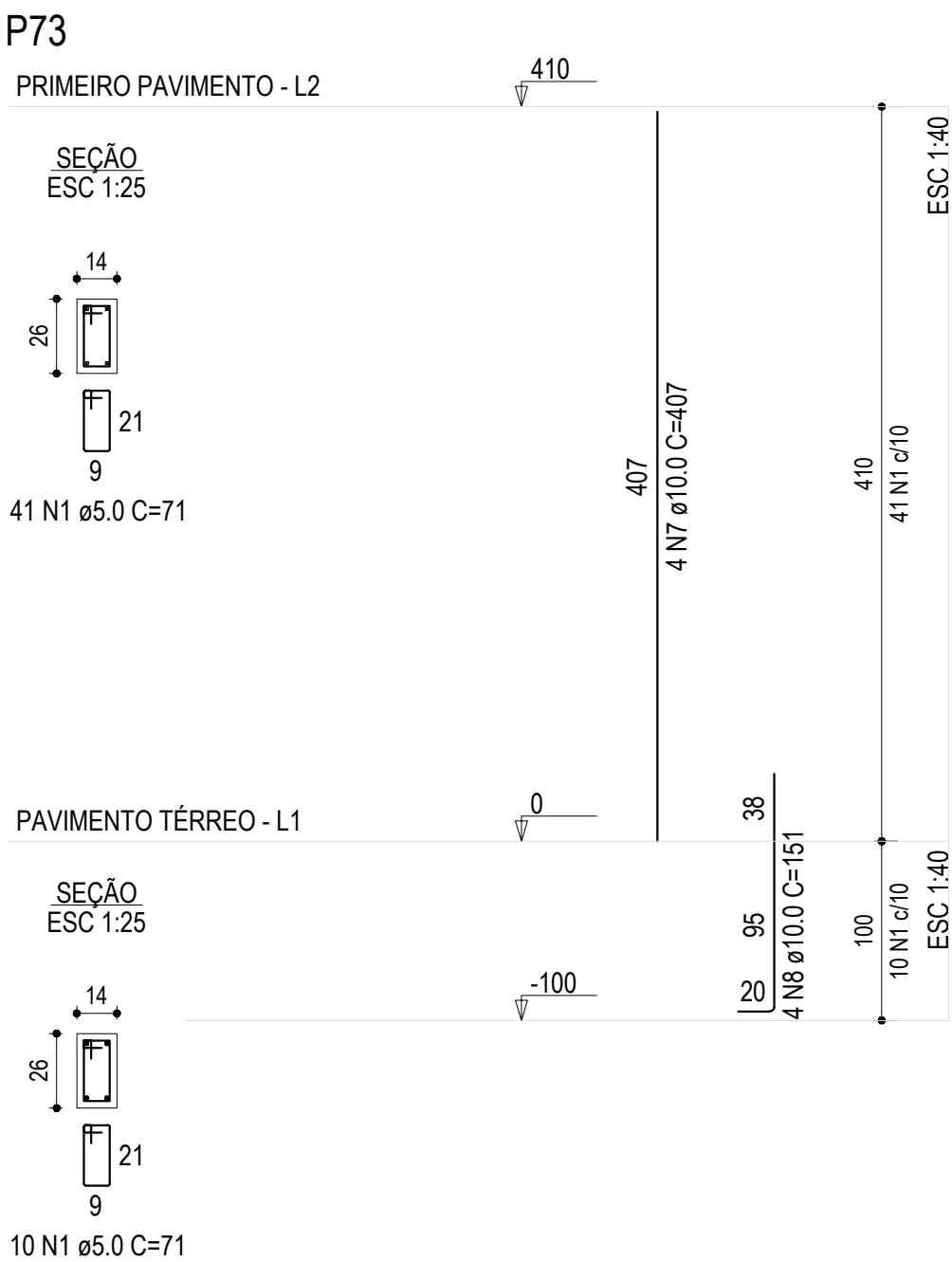
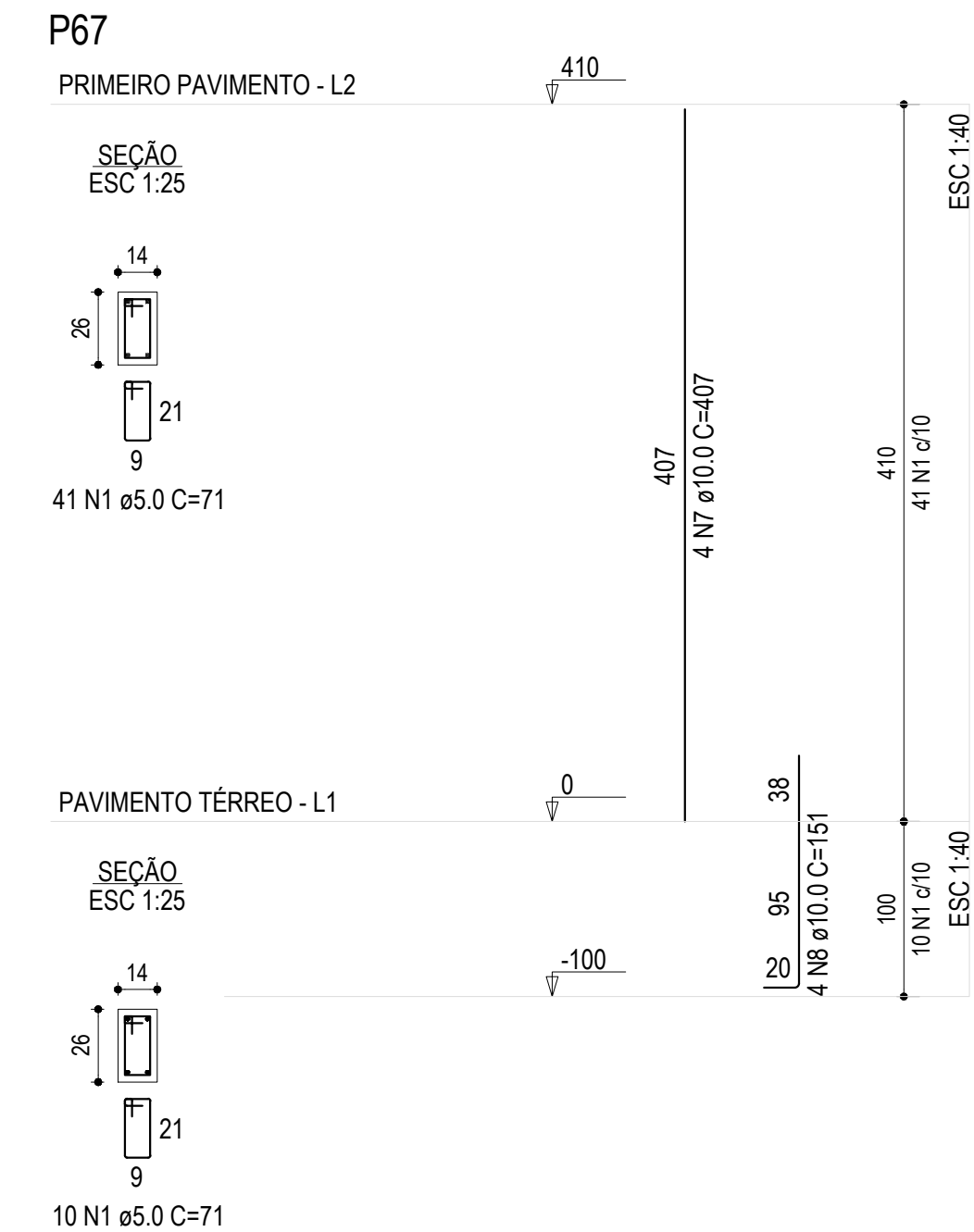


RESUMO DO AÇO PILARES

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	1107	93	682.5
	12.5	1481	124	1426.7
CA60	5.0	3467.2	-	534.4
PESO TOTAL (kg)				
CA50	2109.2			
CA60	534.4			

Volume de concreto (C-25) = 18.56 m³

Área de forma = 388.34 m²



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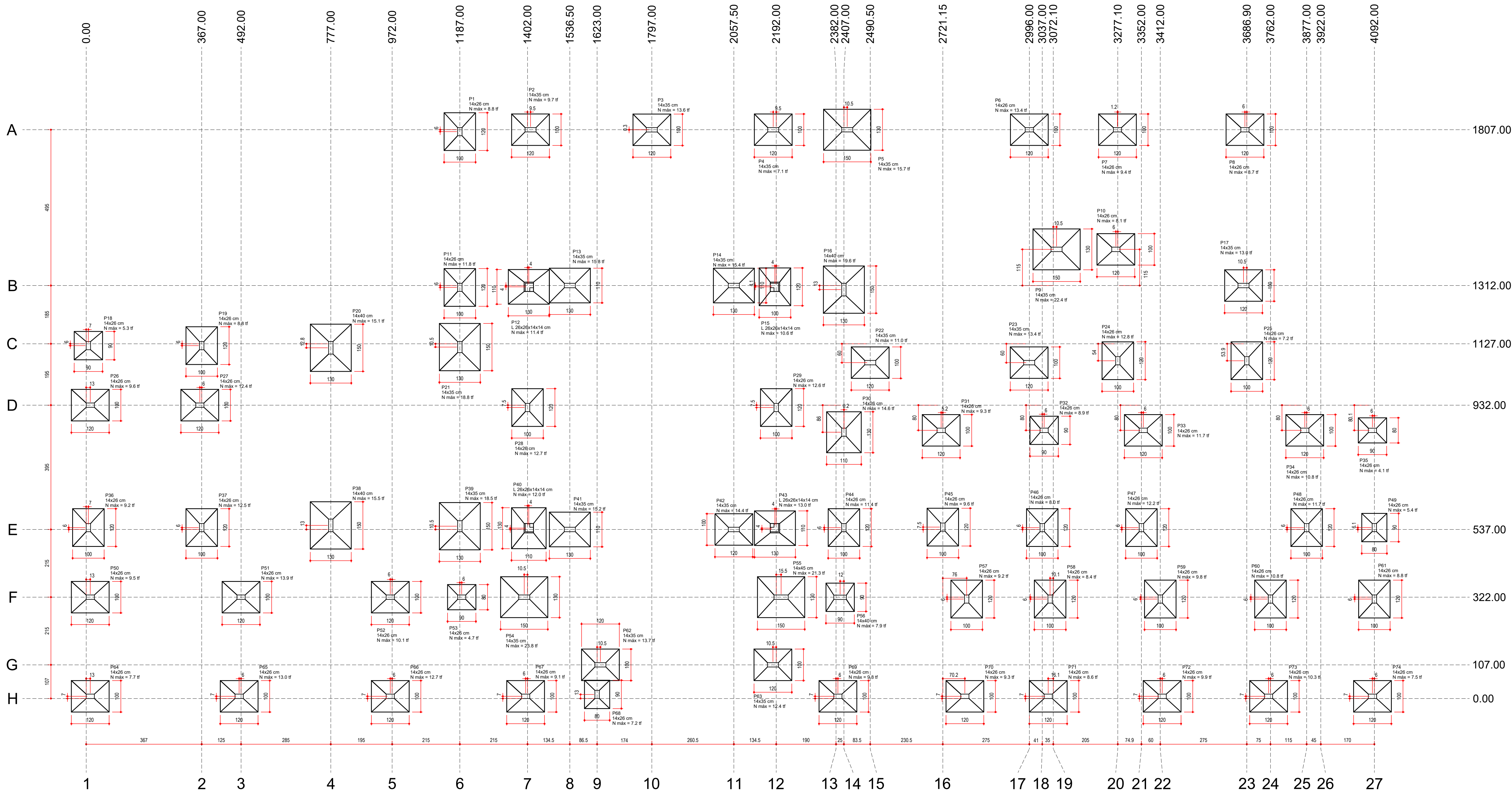
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Planta de locação
escala 1:50

Nome	Seção (cm)	Pilar	Carga Min. (tf)
P1	14x26	14x35	7.7
P2	14x26	14x35	8.6
P3	14x35	14x35	12.0
P4	14x35	14x35	6.3
P5	14x35	14x35	13.8
P6	14x26	14x26	11.9
P7	14x26	14x26	8.4
P8	14x26	14x26	7.7
P9	14x35	14x35	18.9
P10	14x26	14x26	7.3
P11	14x26	14x26	8.0
P12	L 26x26x14x14	14x35	8.0
P13	14x35	14x35	11.7
P14	14x35	14x35	12.3
P15	L 26x26x14x14	14x35	7.8
P16	14x40	14x40	10.0
P17	14x35	14x35	10.7
P18	14x26	14x26	3.6
P19	14x26	14x26	6.9
P20	14x40	14x40	13.4
P21	14x35	14x35	12.8
P22	14x35	14x35	9.1
P23	14x35	14x35	11.7
P24	14x26	14x26	11.1
P25	14x26	14x26	5.0
P26	14x26	14x26	8.2
P27	14x26	14x26	10.3
P28	14x26	14x26	9.8
P29	14x26	14x26	9.6
P30	14x26	14x26	11.7
P31	14x26	14x26	7.6
P32	14x26	14x26	7.8
P33	14x26	14x26	10.0
P34	14x26	14x26	9.2
P35	14x26	14x26	2.9
P36	14x26	14x26	7.8
P37	14x26	14x26	10.8
P38	14x40	14x40	13.6
P39	14x35	14x35	14.1
P40	L 26x26x14x14	14x35	6.2
P41	14x35	14x35	8.2
P42	14x35	14x35	7.8
P43	L 26x26x14x14	14x35	7.0
P44	14x26	14x26	8.4
P45	14x26	14x26	7.8
P46	14x26	14x26	6.5
P47	14x26	14x26	10.2
P48	14x26	14x26	10.0
P49	14x26	14x26	4.0
P50	14x26	14x26	8.2
P51	14x26	14x26	12.0
P52	14x26	14x26	8.6
P53	14x26	14x26	2.9
P54	14x35	14x35	16.4
P55	14x45	14x45	13.9
P56	14x40	14x40	14.4
P57	14x26	14x26	7.5
P58	14x26	14x26	8.8
P59	14x26	14x26	7.5
P60	14x26	14x26	9.3
P61	14x26	14x26	7.5
P62	14x35	14x35	8.3
P63	14x35	14x35	11.0
P64	14x26	14x26	6.5
P65	14x26	14x26	11.4
P66	14x26	14x26	11.1
P67	14x26	14x26	7.5
P68	14x26	14x26	2.7
P69	14x26	14x26	8.0
P70	14x26	14x26	7.7
P71	14x26	14x26	7.2
P72	14x26	14x26	8.3
P73	14x26	14x26	8.9
P74	14x26	14x26	6.4



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eng.edmilsondieter@gmail.com

PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

LOCAÇÃO E CARGAS DA OBRA

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON

DIETER:00043470050

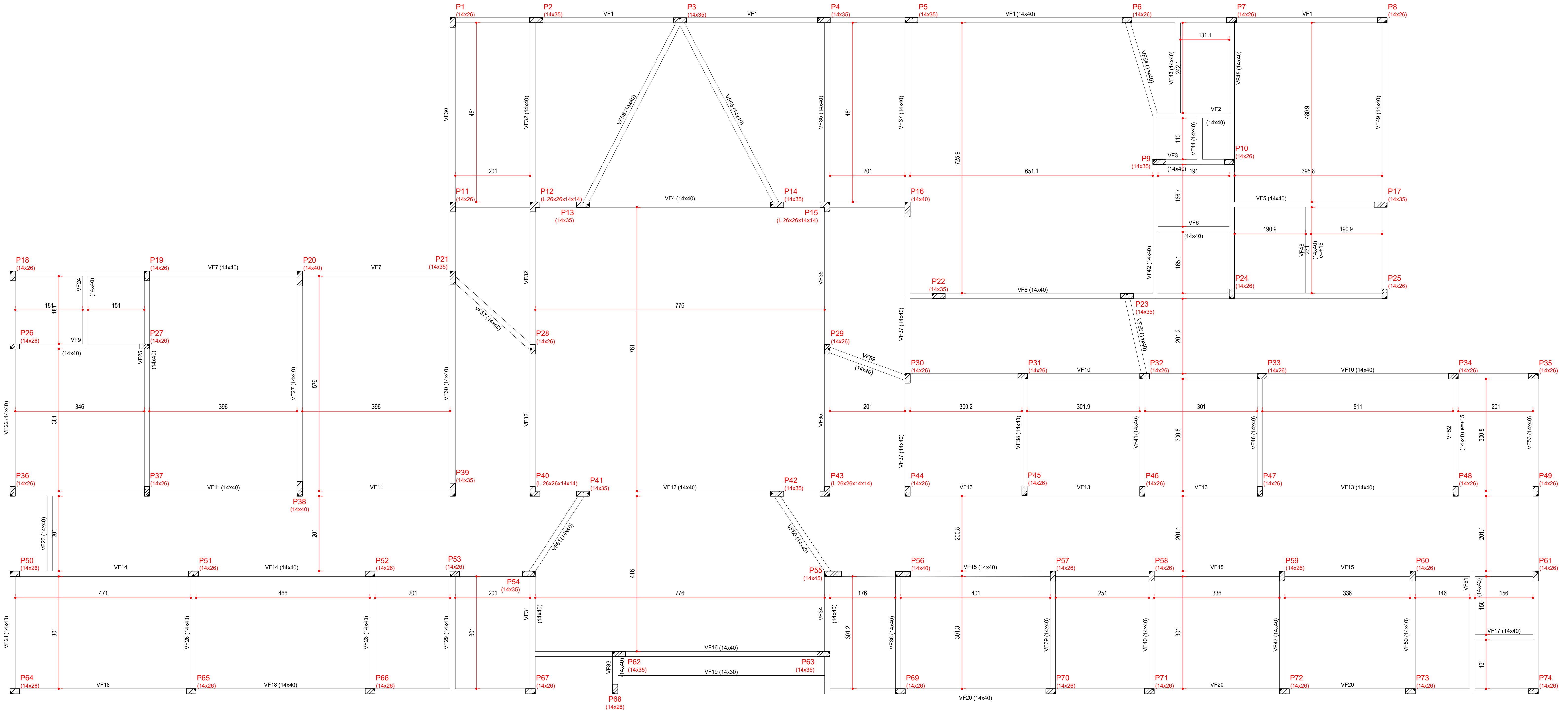
Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 11:59:30 -03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA
Outubro/2023

ESCALA
INDICADA



Forma do pavimento Pavimento Térreo
escala 1:50

Características dos materiais			
fck (kgf/cm²)	Ecs (kgf/cm²)	fct (kgf/cm²)	Abatimento (cm)
250	241500	26	5,00

Dimensão máxima do agregado = 19 mm

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VF1	14x40	0	0
VF2	14x40	0	0
VF3	14x40	0	0
VF4	14x40	0	0
VF5	14x40	0	0
VF6	14x40	0	0
VF7	14x40	0	0
VF8	14x40	0	0
VF9	14x40	0	0
VF10	14x40	0	0
VF11	14x40	0	0
VF12	14x40	0	0
VF13	14x40	0	0
VF14	14x40	0	0
VF15	14x40	0	0
VF16	14x40	0	0
VF17	14x40	0	0
VF18	14x40	0	0
VF19	14x30	0	0
VF20	14x40	0	0
VF21	14x40	0	0
VF22	14x40	0	0
VF23	14x40	0	0
VF24	14x40	0	0
VF25	14x40	0	0
VF26	14x40	0	0
VF27	14x40	0	0
VF28	14x40	0	0
VF29	14x40	0	0

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VF30	14x40	0	0
VF31	14x40	0	0
VF32	14x40	0	0
VF33	14x40	0	0
VF34	14x40	0	0
VF35	14x40	0	0
VF36	14x40	0	0
VF37	14x40	0	0
VF38	14x40	0	0
VF39	14x40	0	0
VF40	14x40	0	0
VF41	14x40	0	0
VF42	14x40	0	0
VF43	14x40	0	0
VF44	14x40	0	0
VF45	14x40	0	0
VF46	14x40	0	0
VF47	14x40	0	0
VF48	14x40	15	15
VF49	14x40	0	0
VF50	14x40	0	0
VF51	14x40	0	0
VF52	14x40	15	15
VF53	14x40	0	0
VF54	14x40	0	0
VF55	14x40	0	0
VF56	14x40	0	0
VF57	14x40	0	0
VF58	14x40	0	0
VF59	14x40	0	0
VF60	14x40	0	0
VF61	14x40	0	0



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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

FORMA FUNDAÇÃO

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON
DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 11:50:59 -03'00'

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

RESP. TÉCNICO

DATA
Outubro/2023

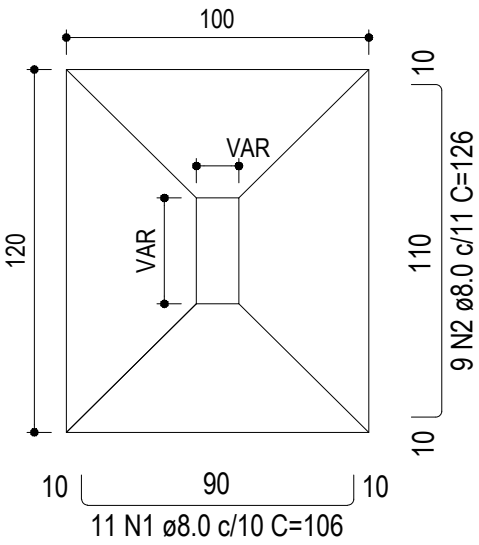
ESCALA
INDICADA

FOLHA

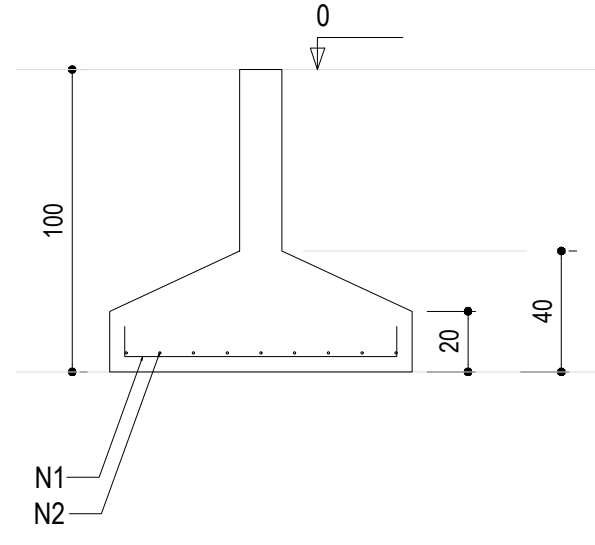
09

S1=S2=S3=S4=S6=S7=S8=S10=S11=S15=S17
=S19=S22=S23=S24=S25=S26=S27=S28=S29
=S31=S33=S34=S36=S37=S42=S44=S45=S46
=S47=S48=S50=S51=S52=S57=S58=S59=S60
=S61=S62=S63=S64=S65=S66=S67=S69=S70
=S71=S72=S73=S74

PLANTA
ESC 1:25

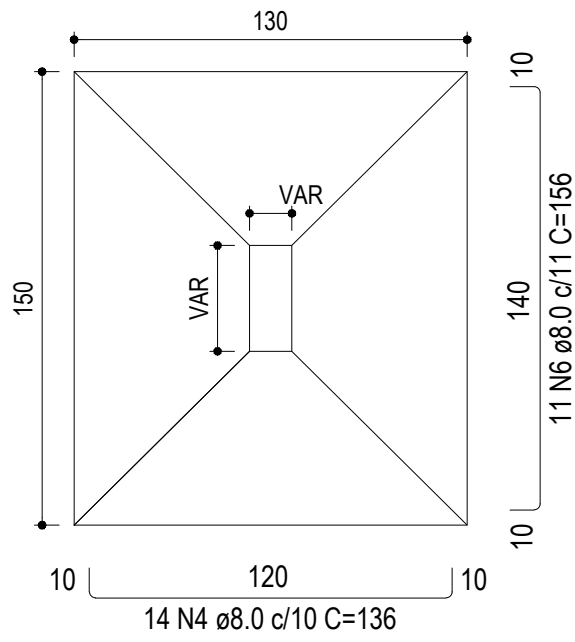


CORTE
ESC 1:25

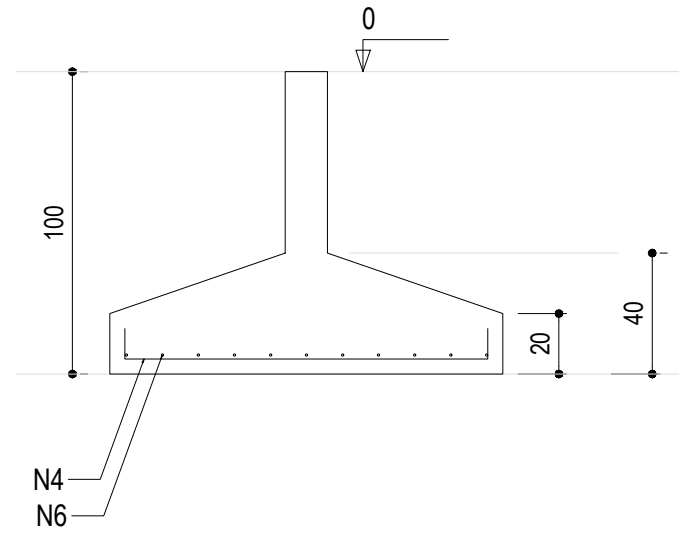


S5=S9=S16=S20=S21=S38=S39=S54=S55

PLANTA
ESC 1:25

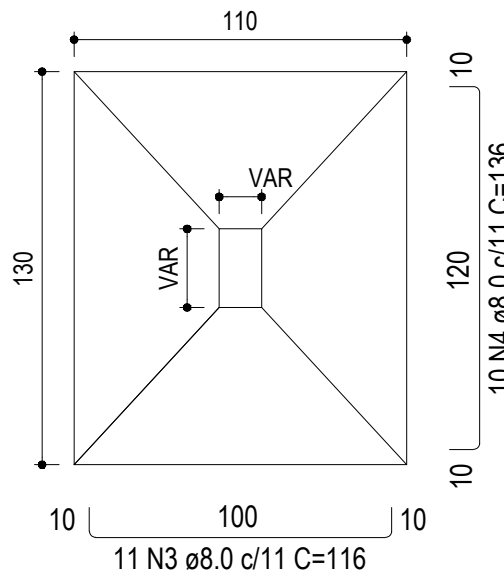


CORTE
ESC 1:25

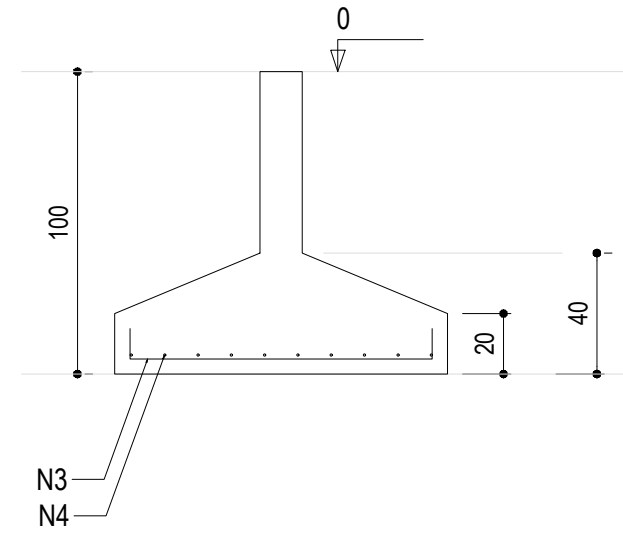


S12=S13=S14=S30=S40=S41=S43

PLANTA
ESC 1:25



CORTE
ESC 1:25



RESUMO DO AÇO SAPATAS

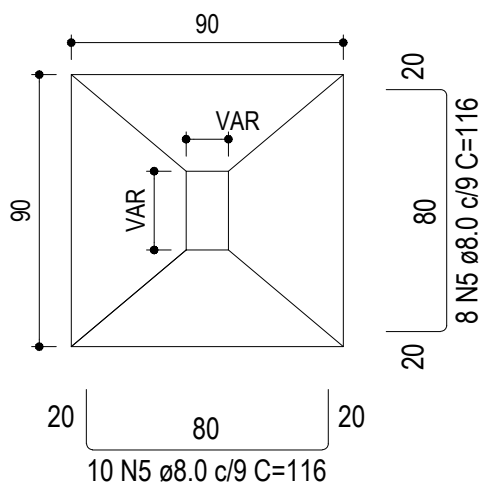
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	1821.2	152	718.6
PESO TOTAL (kg)				
CA50	718.6			

Volume de concreto (C-25) = 26.82 m³

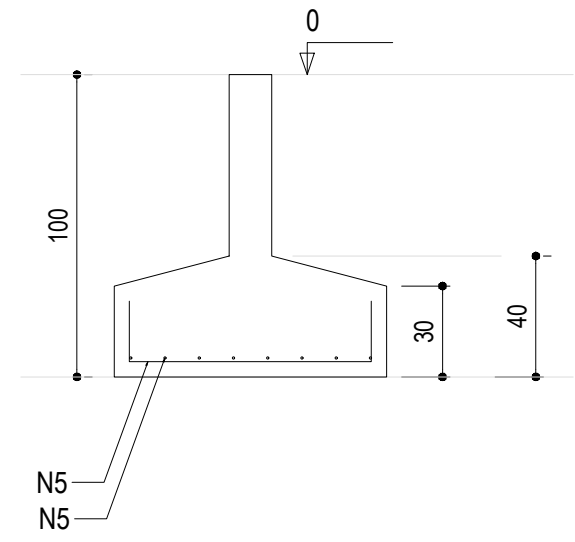
Área de forma = 69.00 m²

S18=S32=S56

PLANTA
ESC 1:25

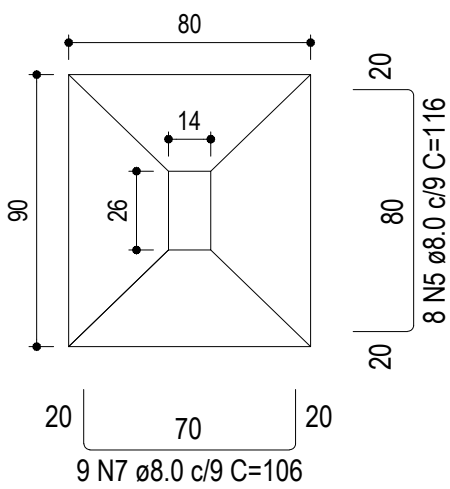


CORTE
ESC 1:25

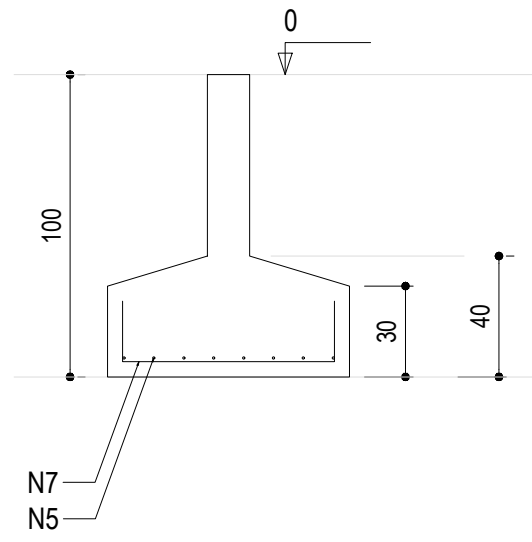


S35=S49=S53=S68

PLANTA
ESC 1:25



CORTE
ESC 1:25



GAMA-Z ENGENHARIA LTDA | CREA-RS 249.562
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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO SAPATAS

PROPRIETÁRIO

**PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara**

EDMILSON
DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 11:50:40
-03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA
Outubro/2023

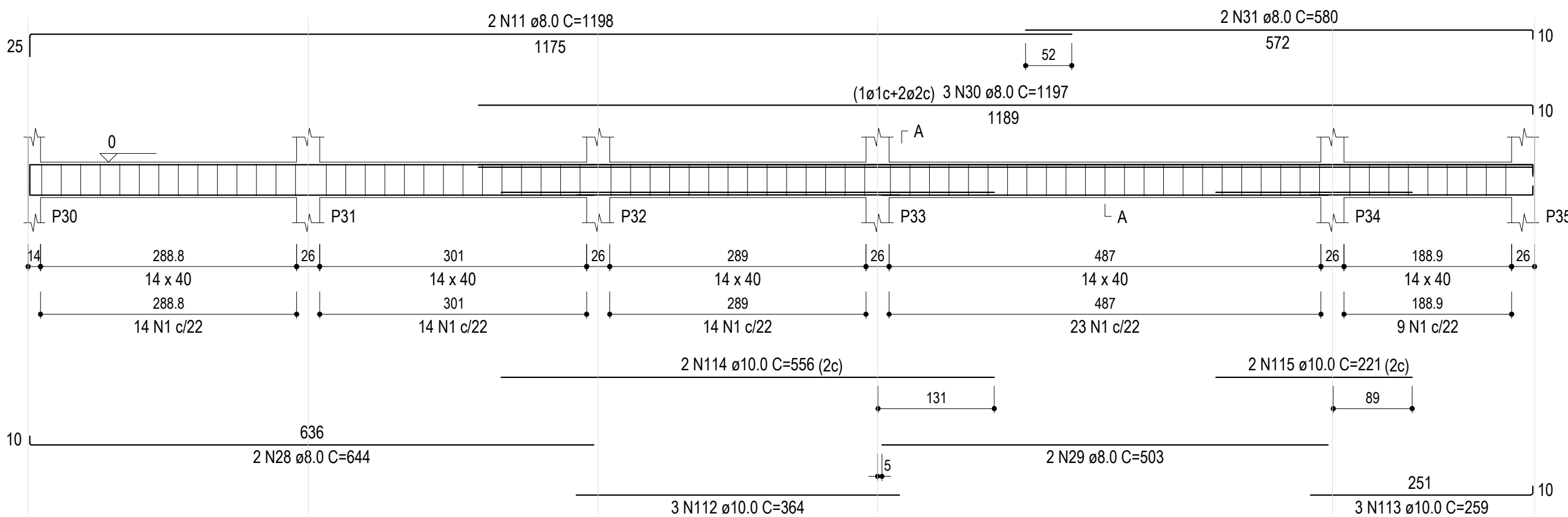
ESCALA
INDICADA

FOLHA

10

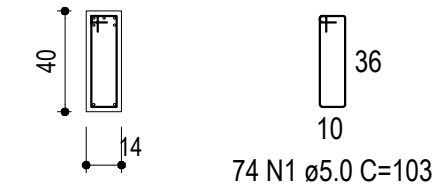
VF10 (14 x 40)

ESC 1:50



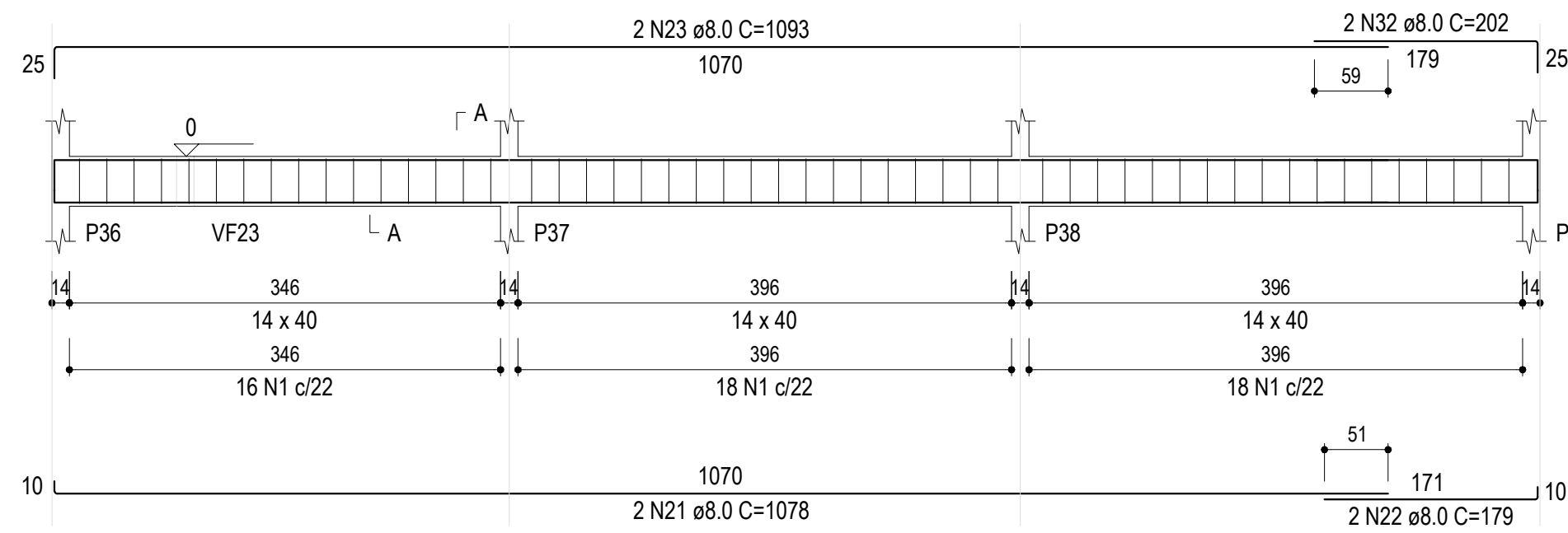
SEÇÃO A-A

ESC 1:30



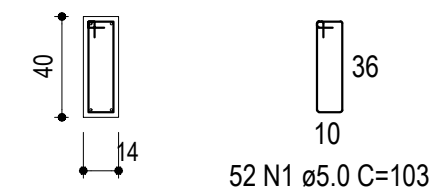
VF11 (14 x 40)

ESC 1:50



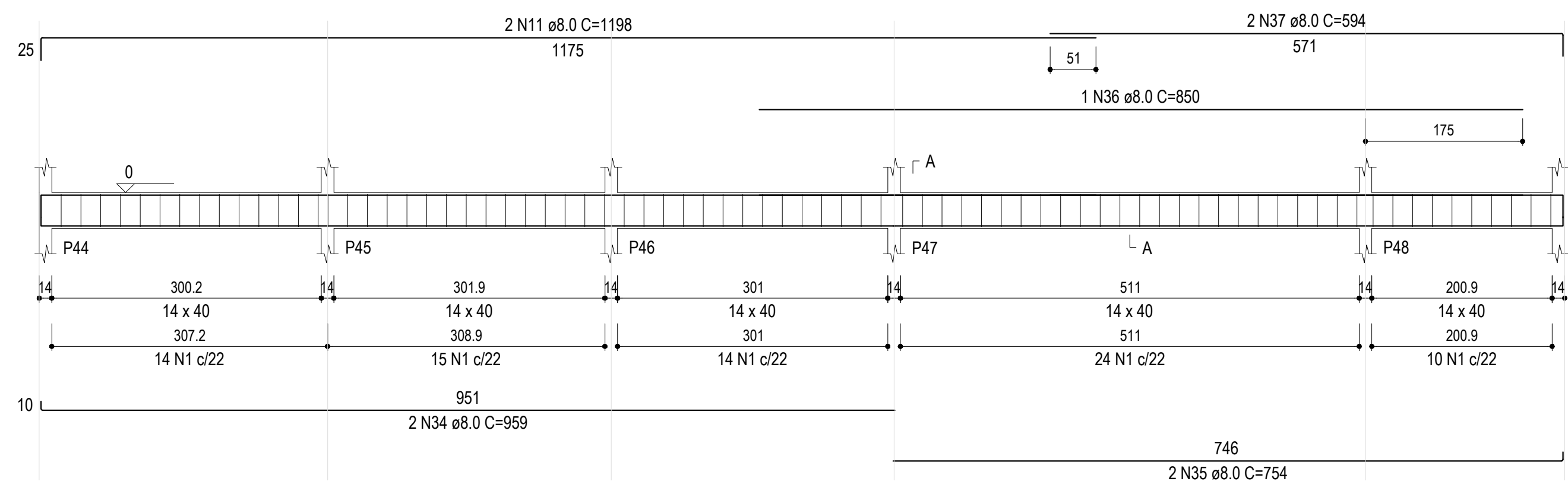
SEÇÃO A-A

ESC 1:30



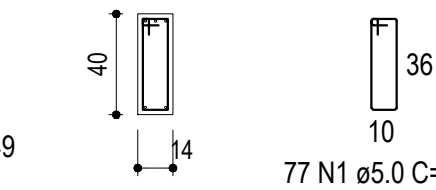
VF13 (14 x 40)

ESC 1:50



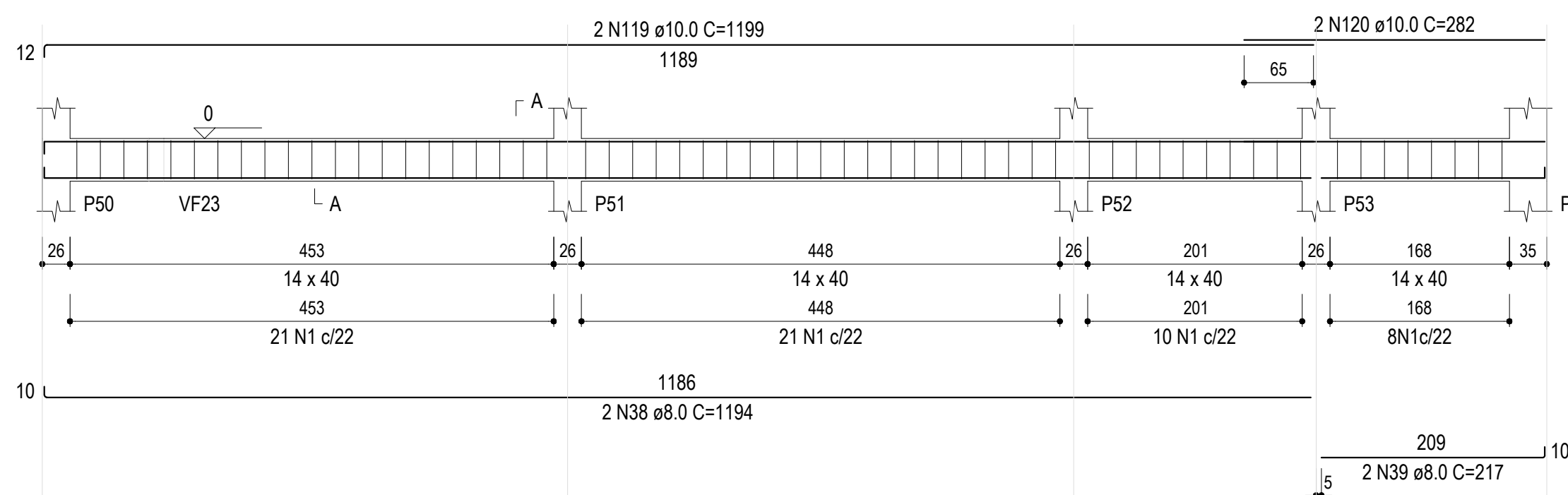
SEÇÃO A-A

ESC 1:30



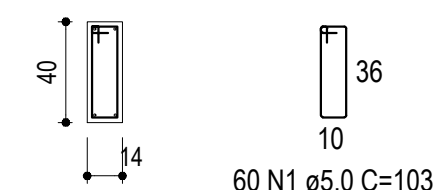
VF14 (14 x 40)

ESC 1:50



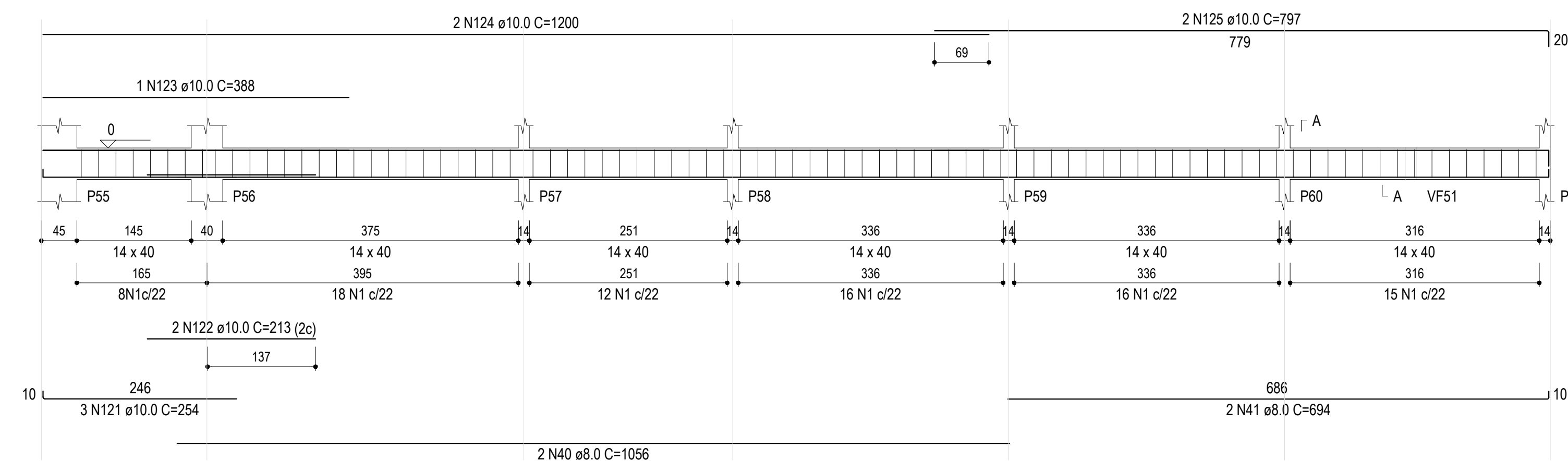
SEÇÃO A-A

ESC 1:30



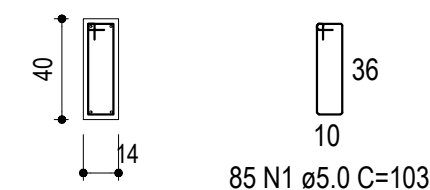
VF15 (14 x 40)

ESC 1:50



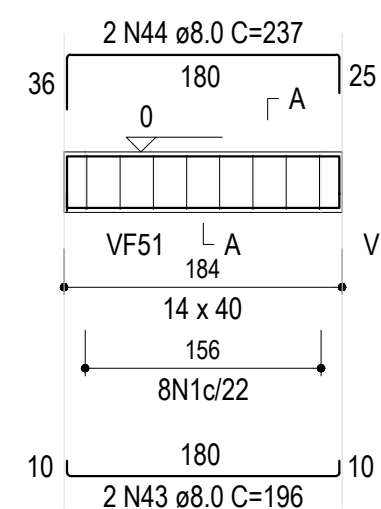
SEÇÃO A-A

ESC 1:30



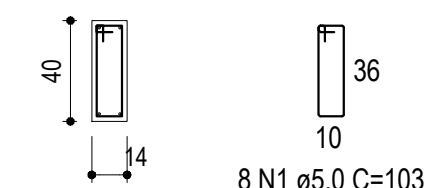
VF17 (14 x 40)

ESC 1:50



SEÇÃO A-A

ESC 1:30



GAMA-Z ENGENHARIA LTDA | CREA-RS 249.562

Dieter & Schiefelbein

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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VIGAS FUNDAÇÃO

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON

DIETER:00043470050

Assinado de forma digital por

EDMILSON DIETER:00043470050

Dados: 2025.02.20 11:50:06 -03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562

Eng. Civil André Schiefelbein - CREA-RS 093.879

Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA

Outubro/2023

ESCALA

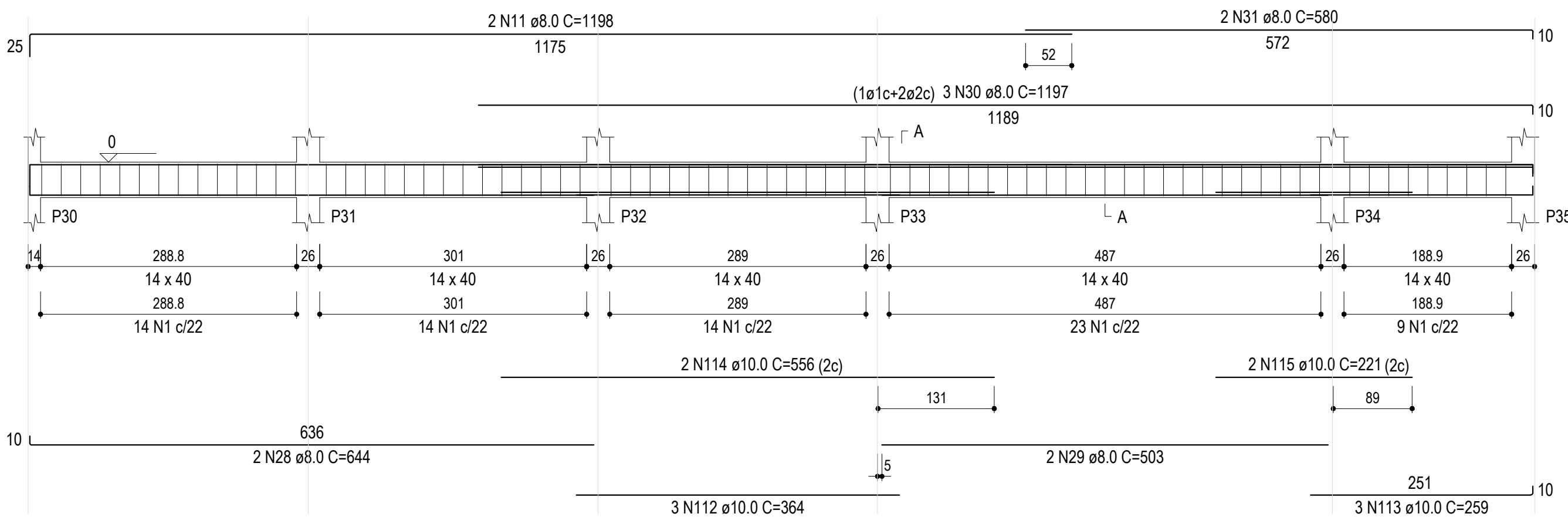
INDICADA

FOLHA

12

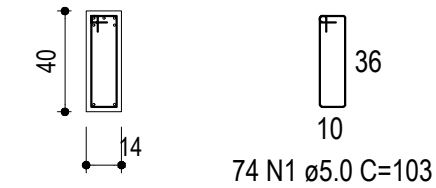
VF10 (14 x 40)

ESC 1:50



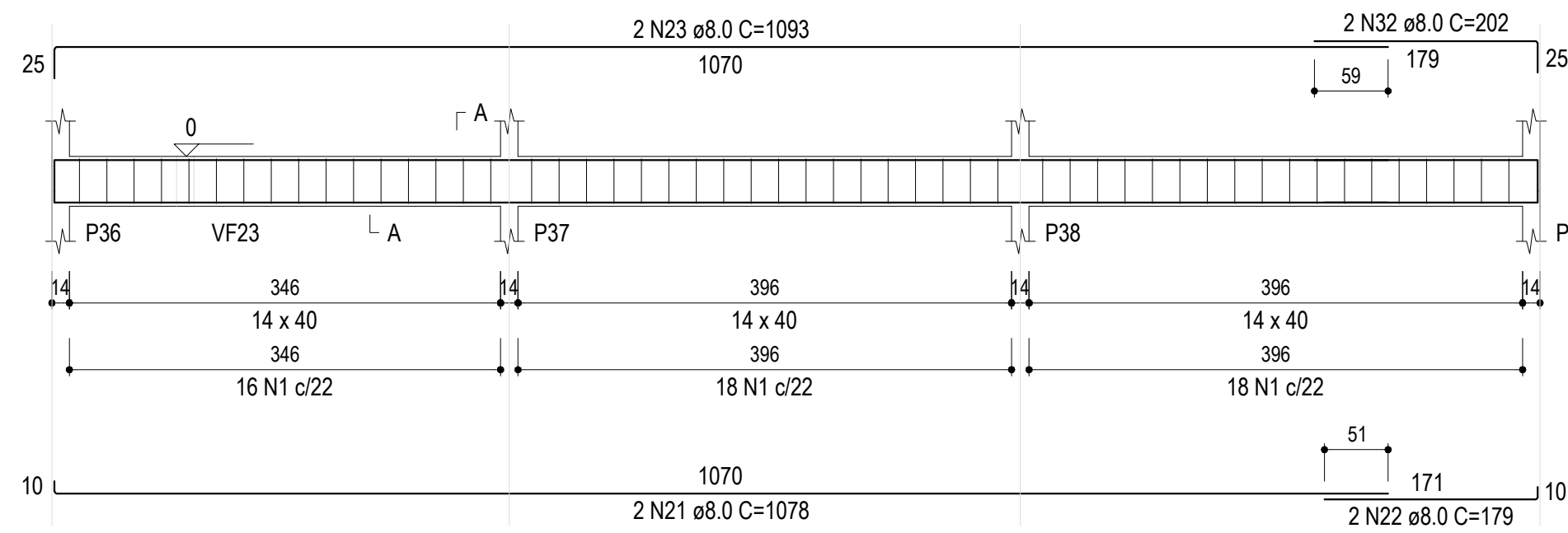
SEÇÃO A-A

ESC 1:30



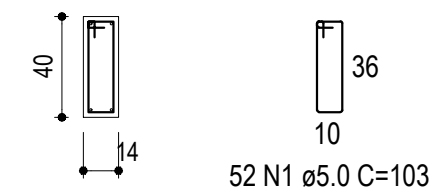
VF11 (14 x 40)

ESC 1:50



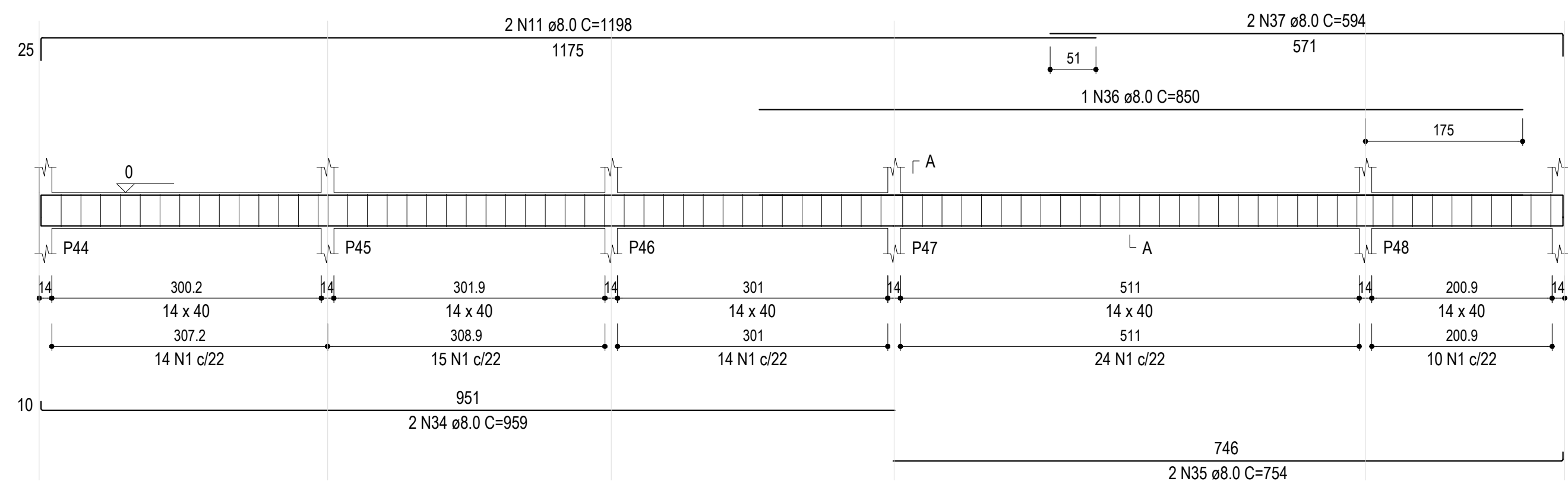
SEÇÃO A-A

ESC 1:30



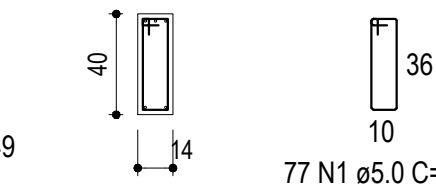
VF13 (14 x 40)

ESC 1:50



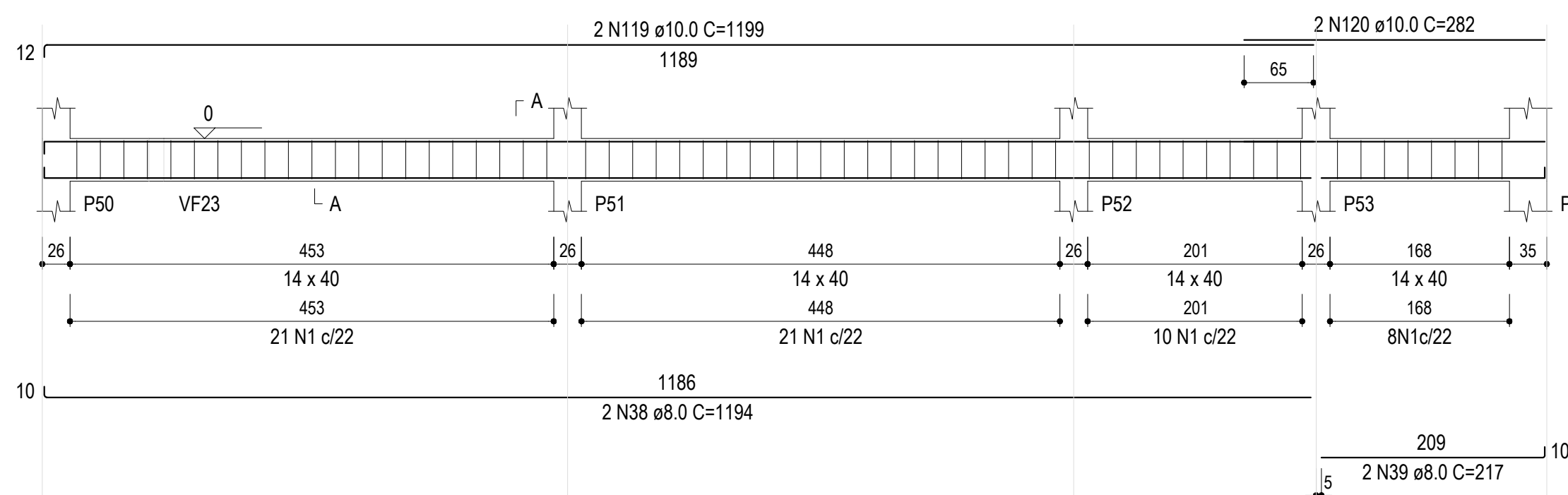
SEÇÃO A-A

ESC 1:30



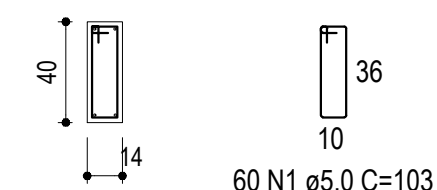
VF14 (14 x 40)

ESC 1:50



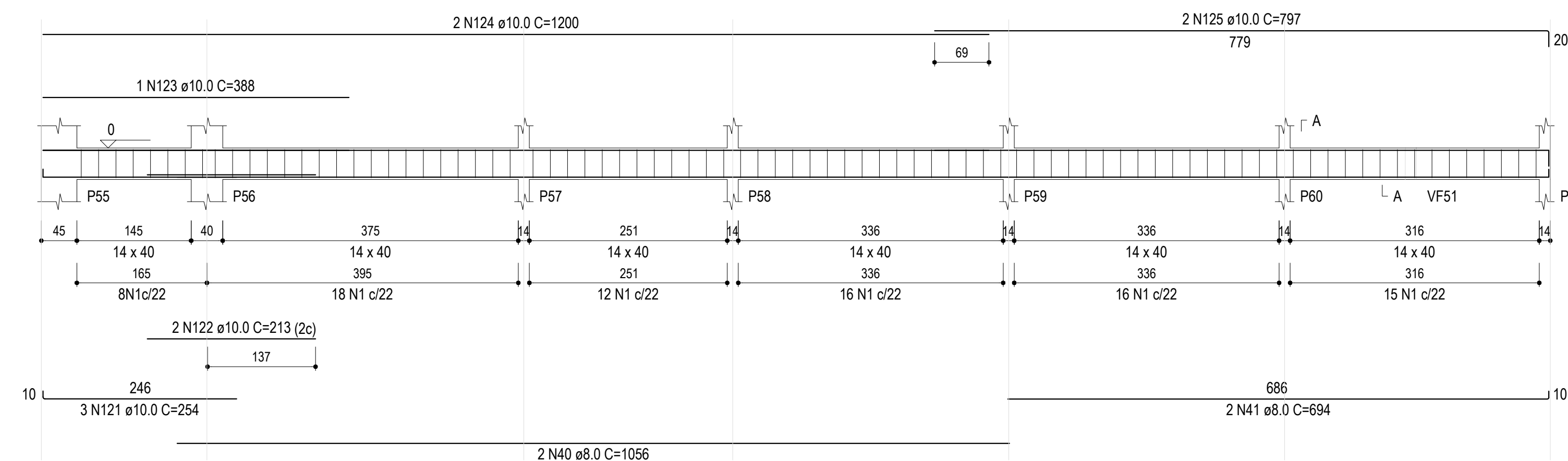
SEÇÃO A-A

ESC 1:30



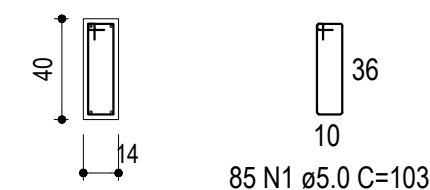
VF15 (14 x 40)

ESC 1:50



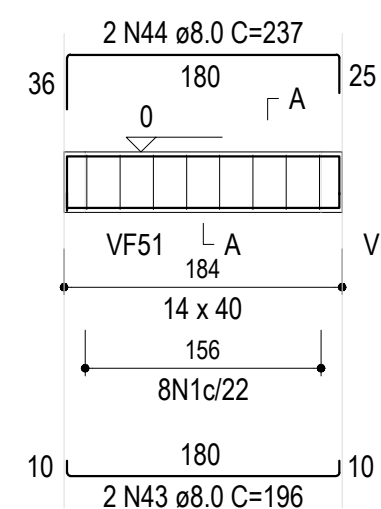
SEÇÃO A-A

ESC 1:30



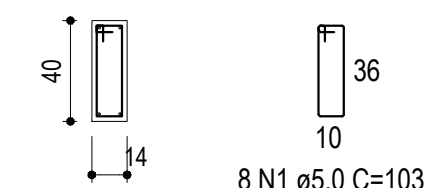
VF17 (14 x 40)

ESC 1:50



SEÇÃO A-A

ESC 1:30



GAMA-Z ENGENHARIA LTDA | CREA-RS 249.562

Dieter & Schiefelbein

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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VIGAS FUNDAÇÃO

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON

DIETER:00043470050

Assinado de forma digital por

EDMILSON DIETER:00043470050

Dados: 2025.02.20 11:50:06 -03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562

Eng. Civil André Schiefelbein - CREA-RS 093.879

Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA

Outubro/2023

ESCALA

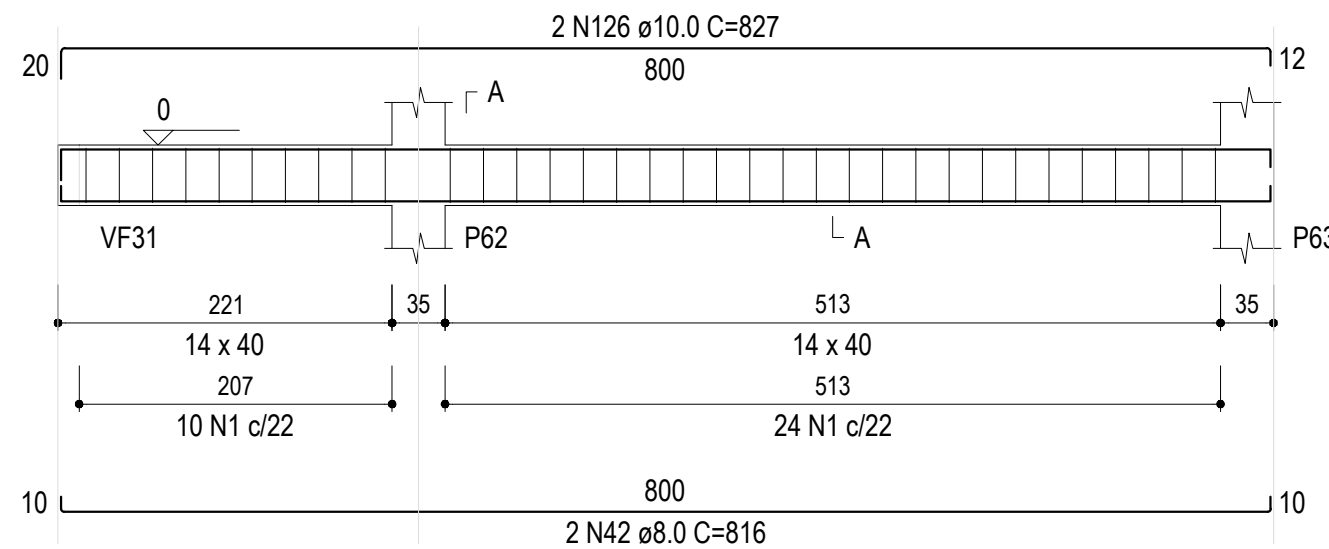
INDICADA

FOLHA

12

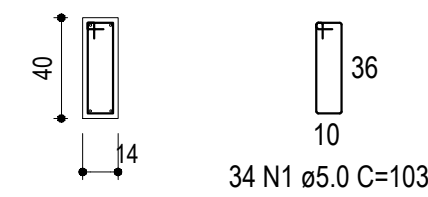
VF16 (14 x 40)

ESC 1:50



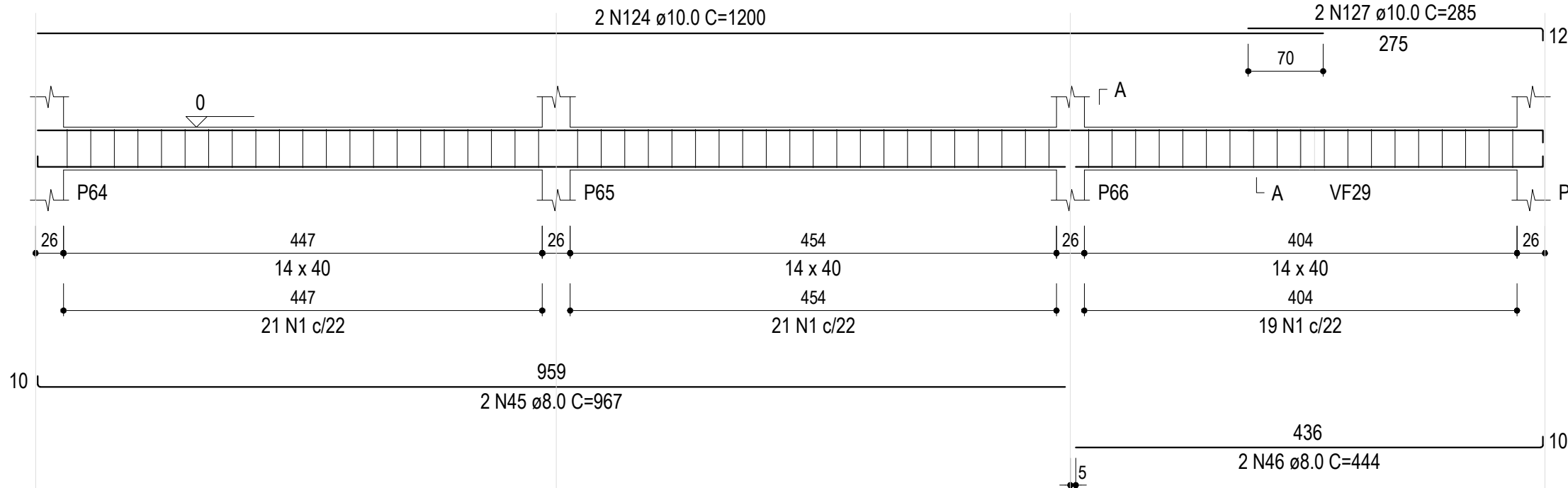
SEÇÃO A-A

ESC 1:30



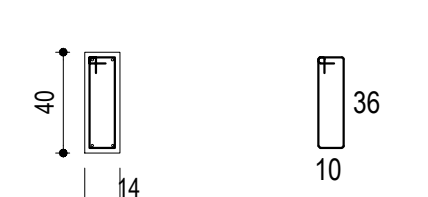
VF18 (14 x 40)

ESC 1:50



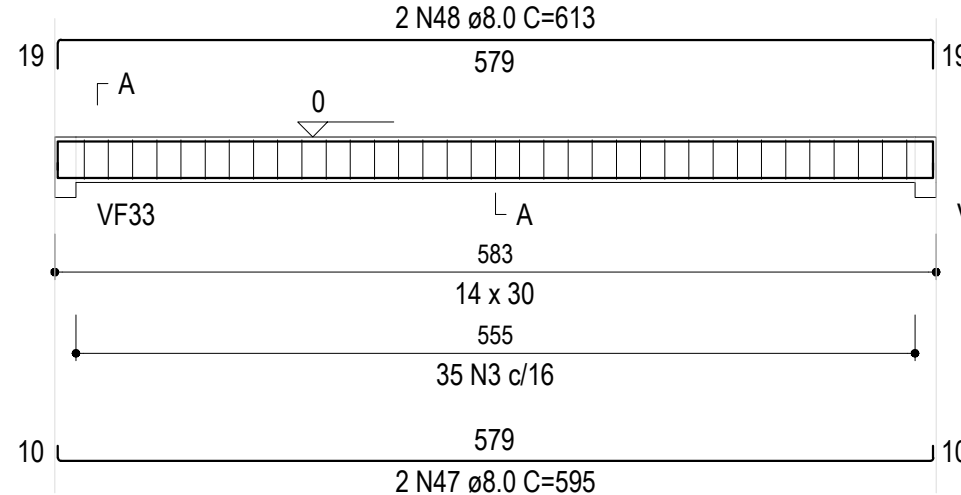
SEÇÃO A-A

ESC 1:30



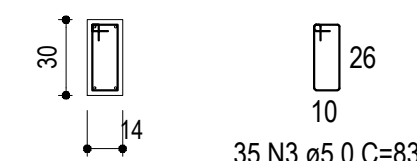
VF19 (14 x 30)

ESC 1:50



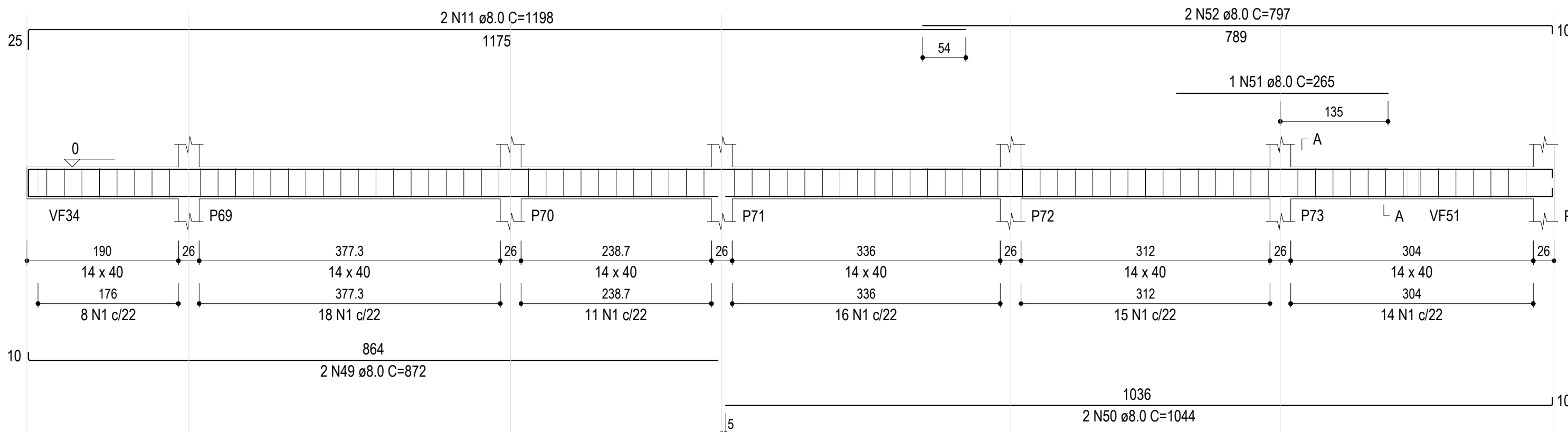
SEÇÃO A-A

ESC 1:30



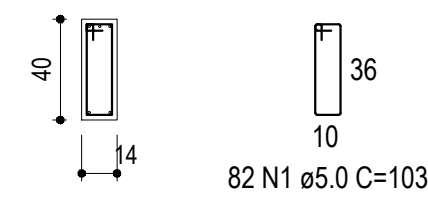
VF20 (14 x 40)

ESC 1:50



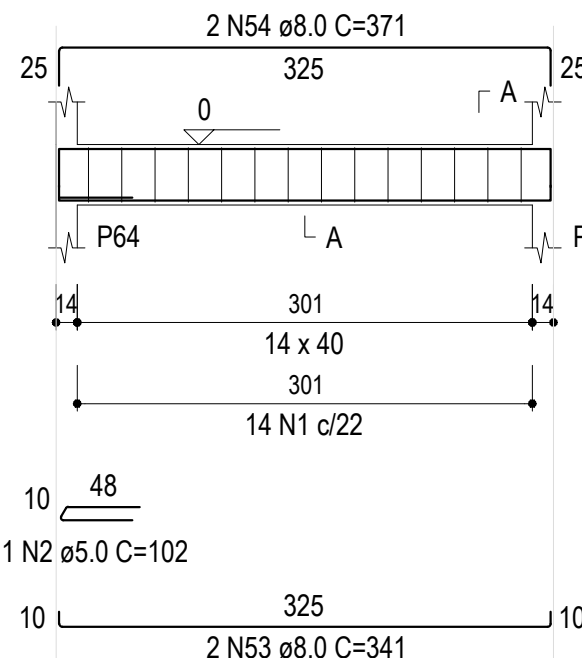
SEÇÃO A-A

ESC 1:30



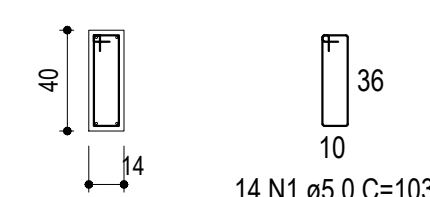
VF21 (14 x 40)

ESC 1:50



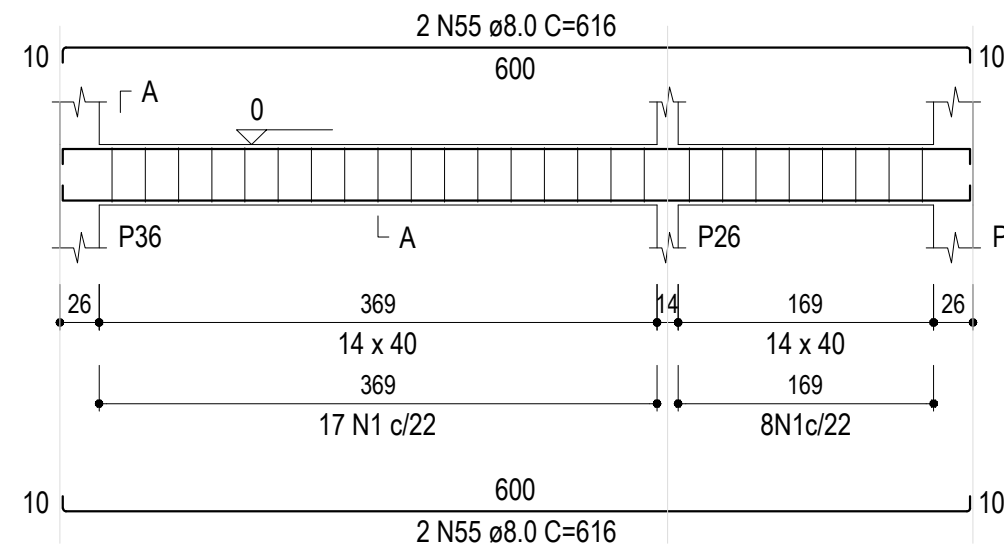
SEÇÃO A-A

ESC 1:30



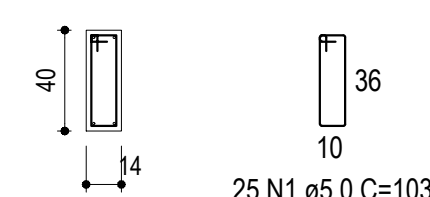
VF22 (14 x 40)

ESC 1:50



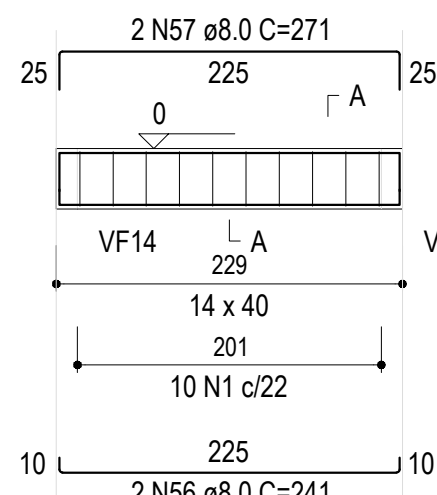
SEÇÃO A-A

ESC 1:30



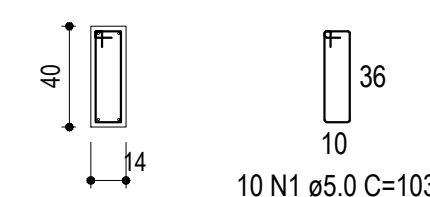
VF23 (14 x 40)

ESC 1:50



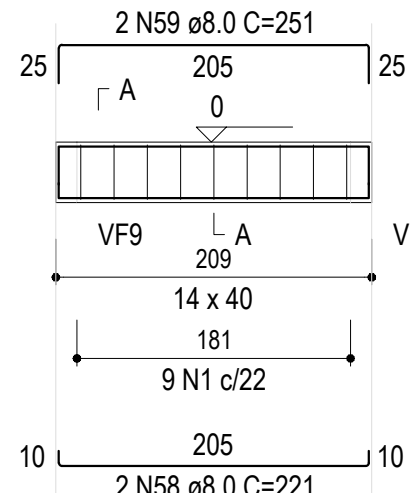
SEÇÃO A-A

ESC 1:30



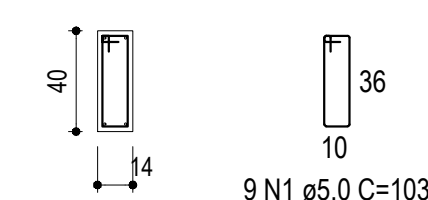
VF24 (14 x 40)

ESC 1:50



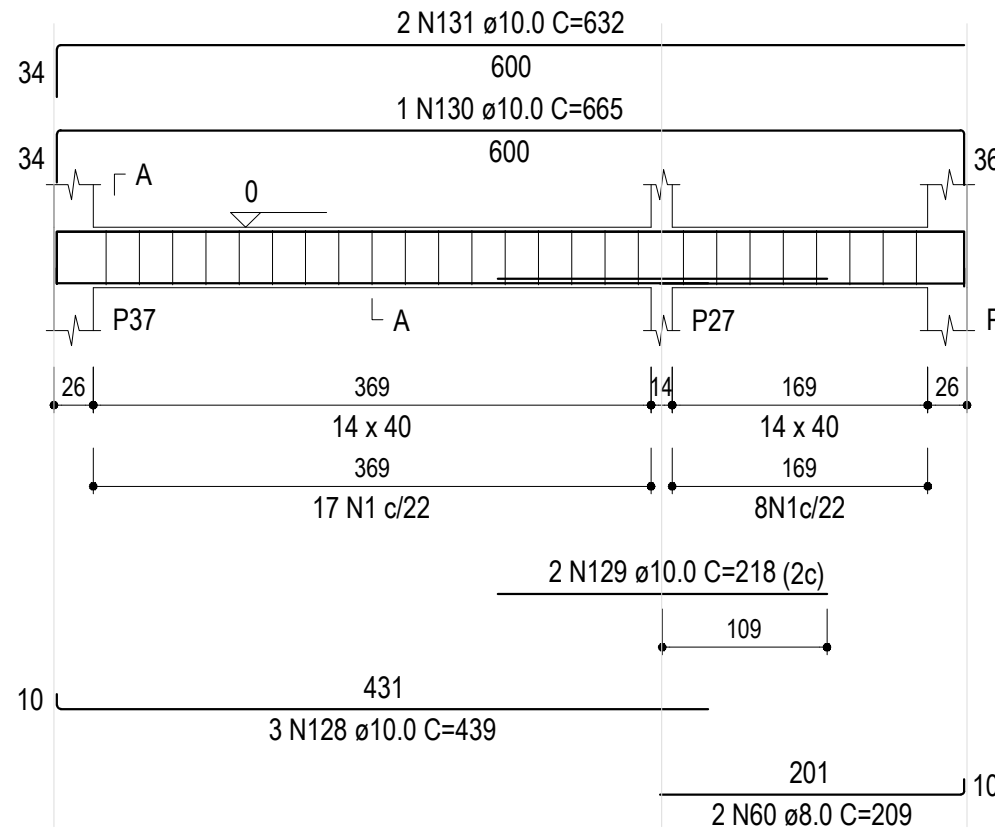
SEÇÃO A-A

ESC 1:30



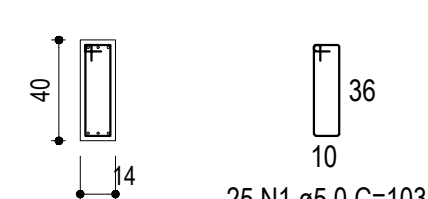
VF25 (14 x 40)

ESC 1:50



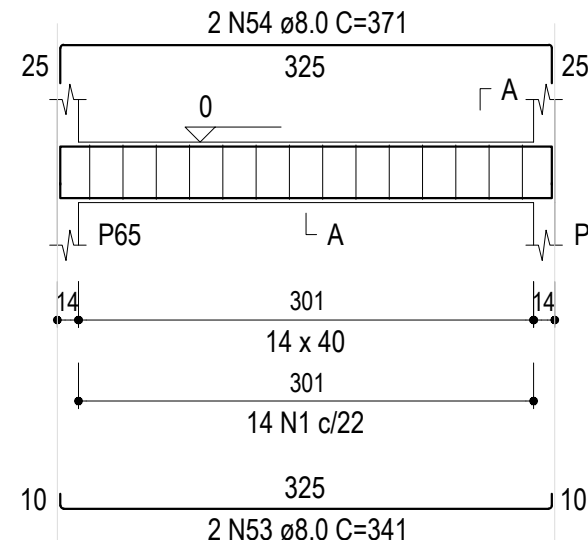
SEÇÃO A-A

ESC 1:30



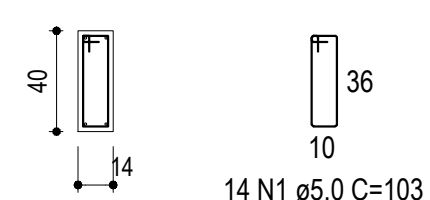
VF26 (14 x 40)

ESC 1:50



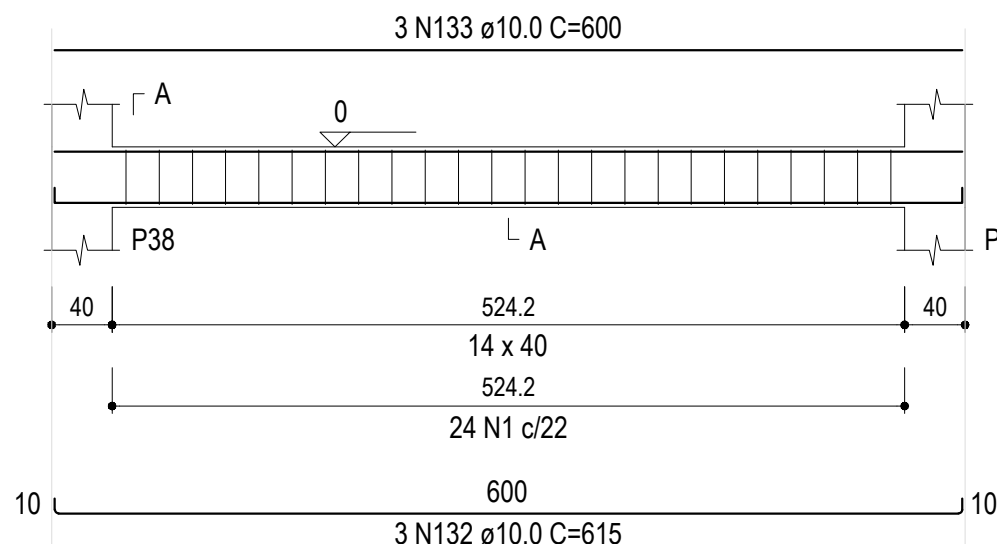
SEÇÃO A-A

ESC 1:30



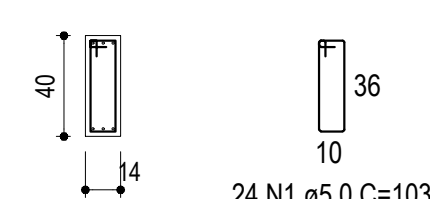
VF27 (14 x 40)

ESC 1:50



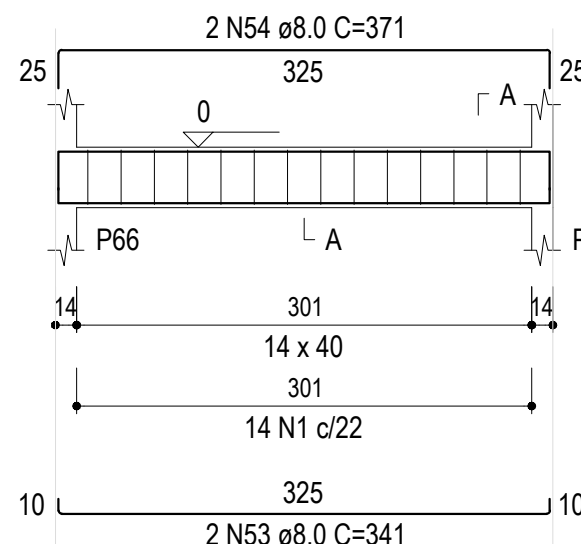
SEÇÃO A-A

ESC 1:30



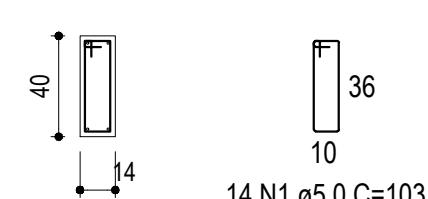
VF28 (14 x 40)

ESC 1:50



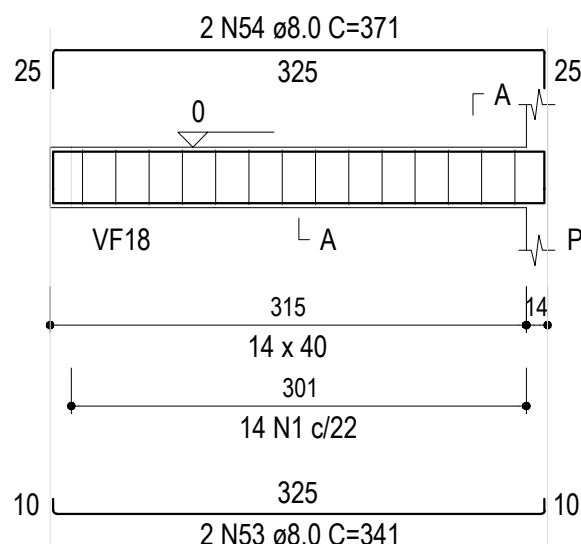
SEÇÃO A-A

ESC 1:30



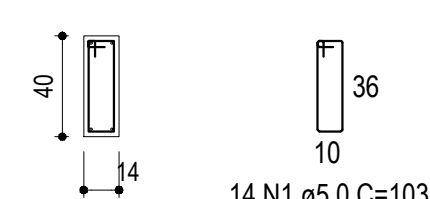
VF29 (14 x 40)

ESC 1:50



SEÇÃO A-A

ESC 1:30



GAMA-Z ENGENHARIA LTDA | CREA-RS 249.562
Dieter & Schiefelbein
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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VIGAS FUNDAÇÃO

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON
DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 11:49:36 -03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

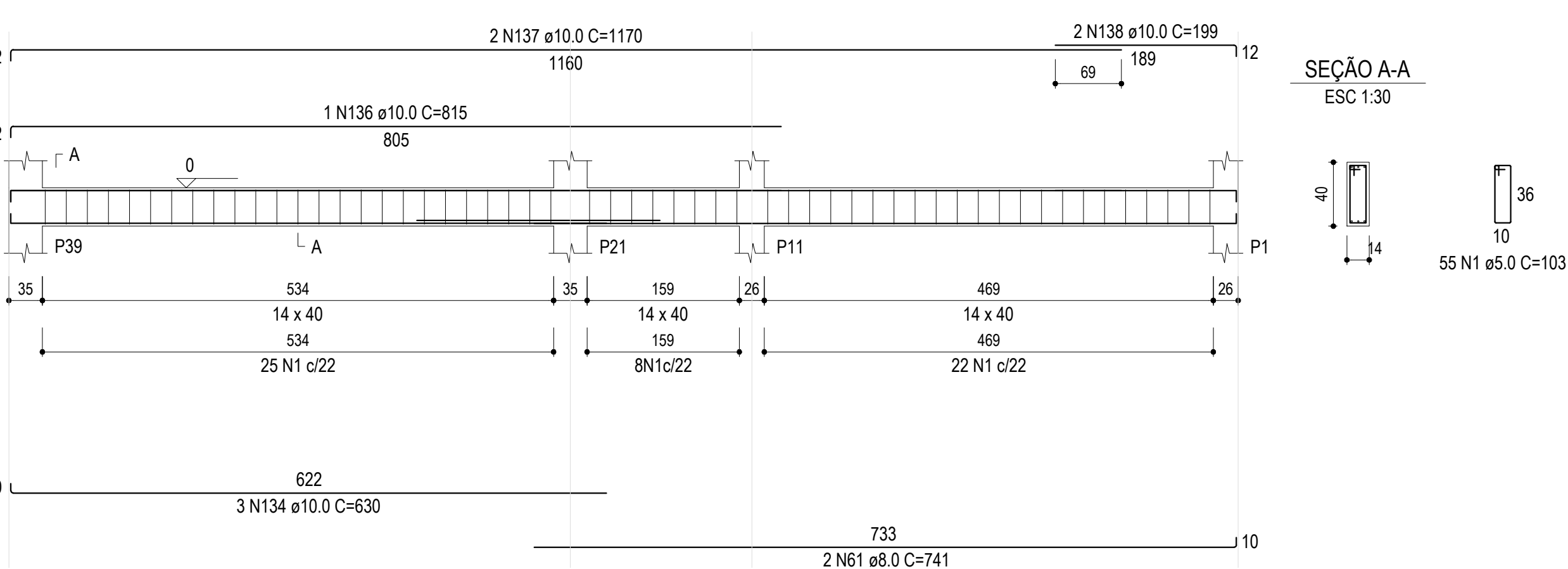
ESCALA
Outubro/2023

INDICADA

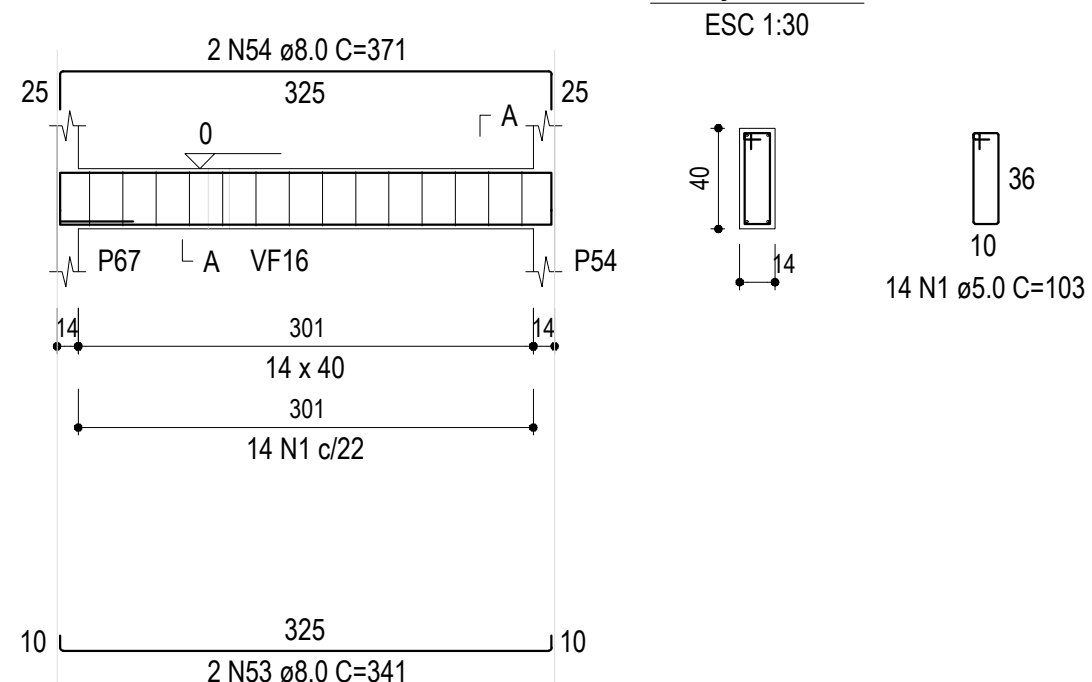
FOLHA

13

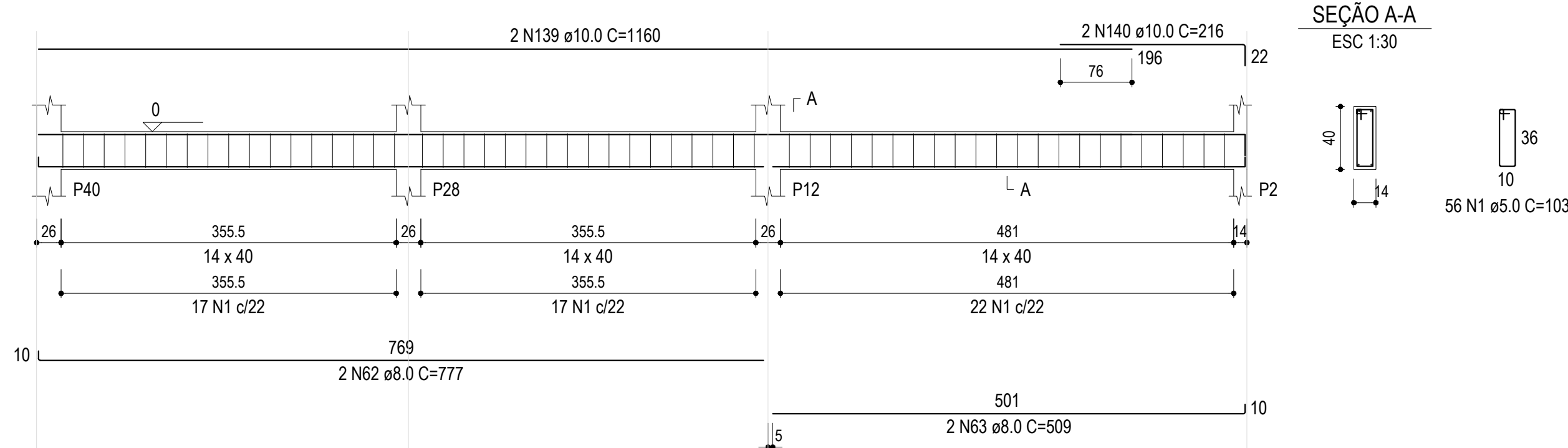
VF30 (14 x 40)



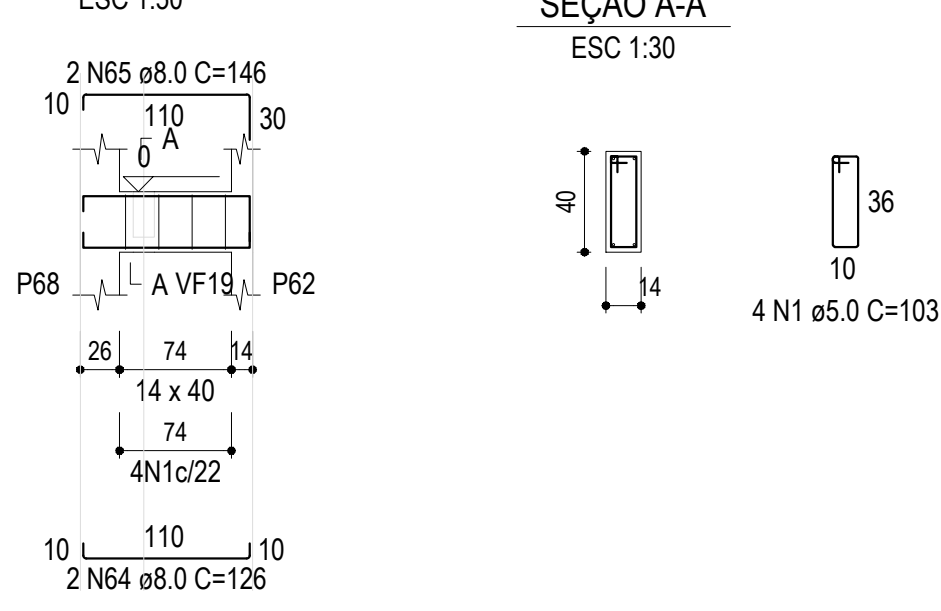
VF31 (14 x 40)



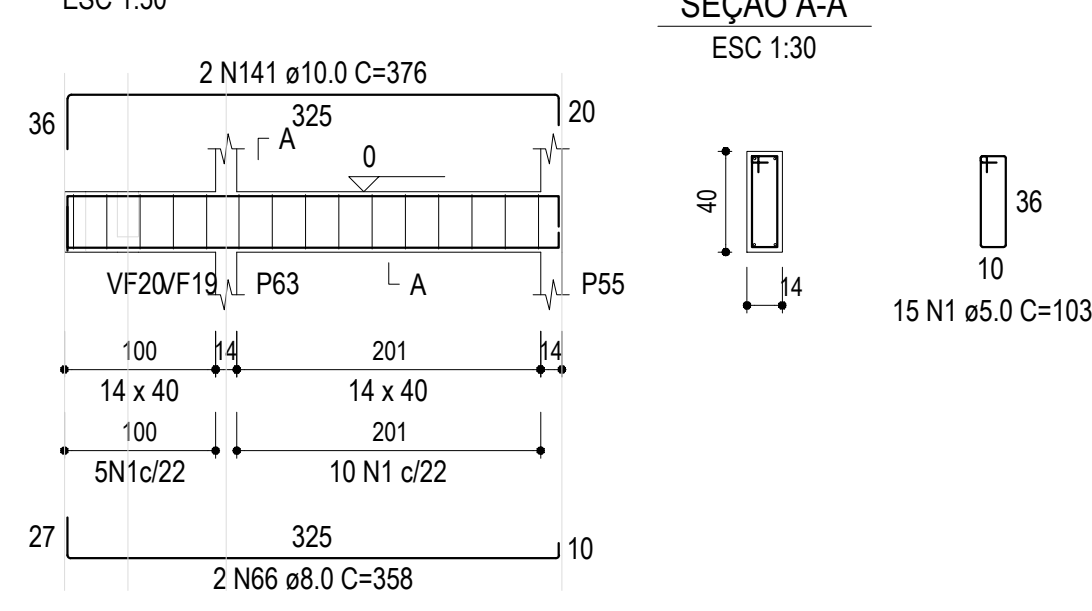
VF32 (14 x 40)



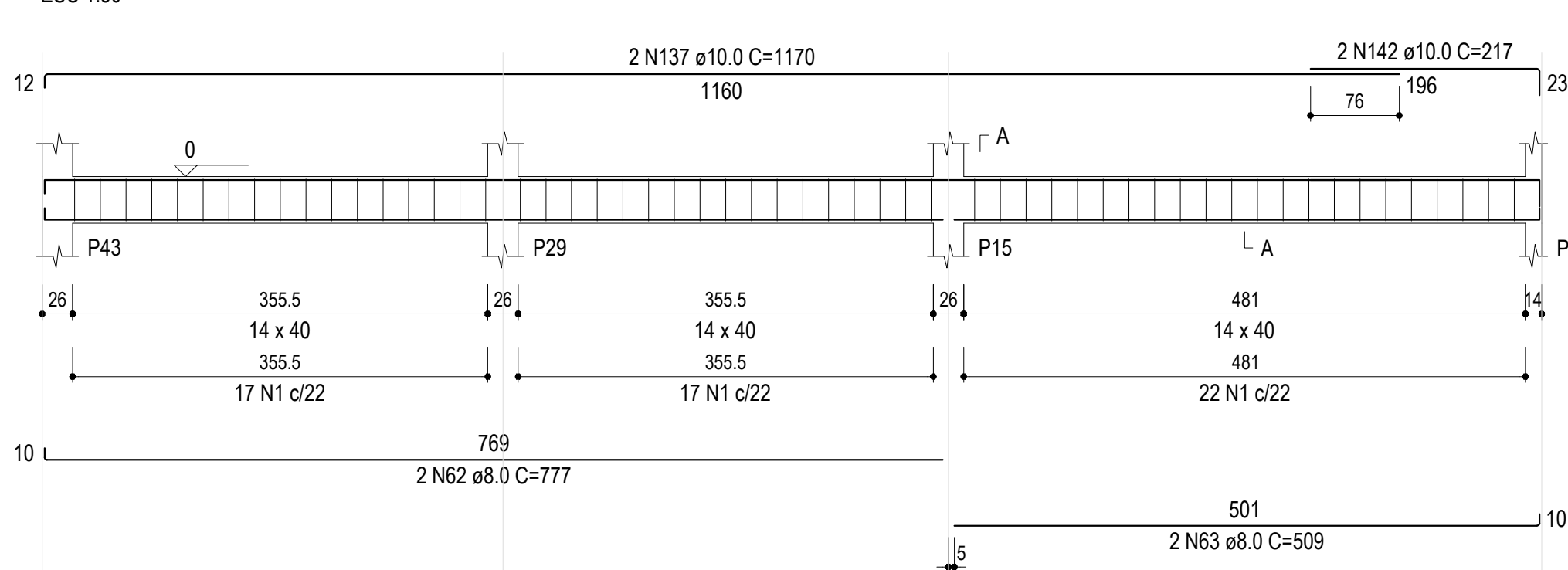
VF33 (14 x 40)



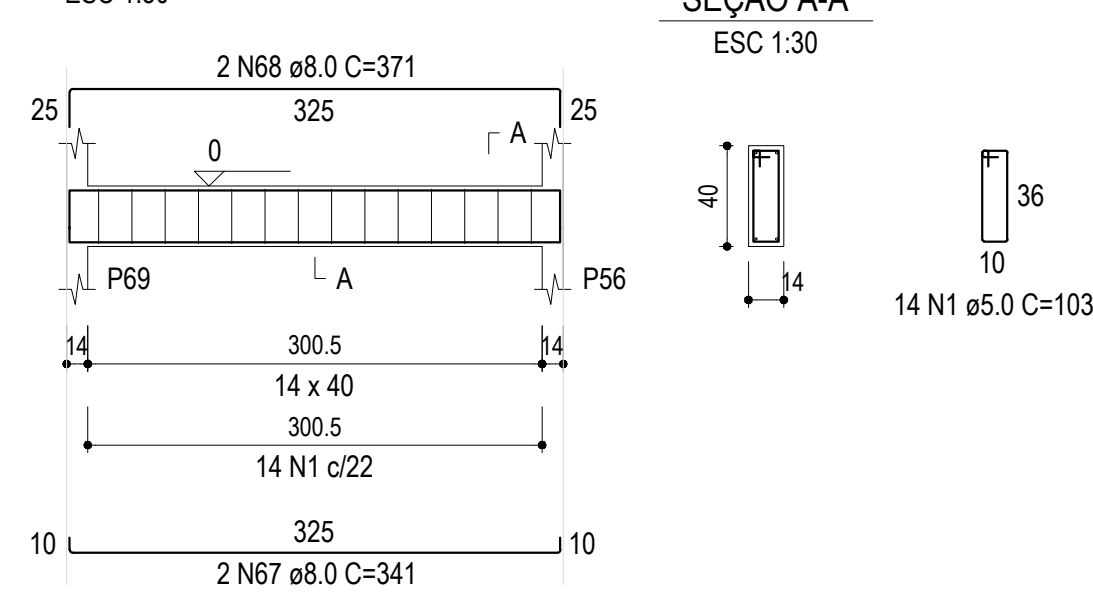
VF34 (14 x 40)



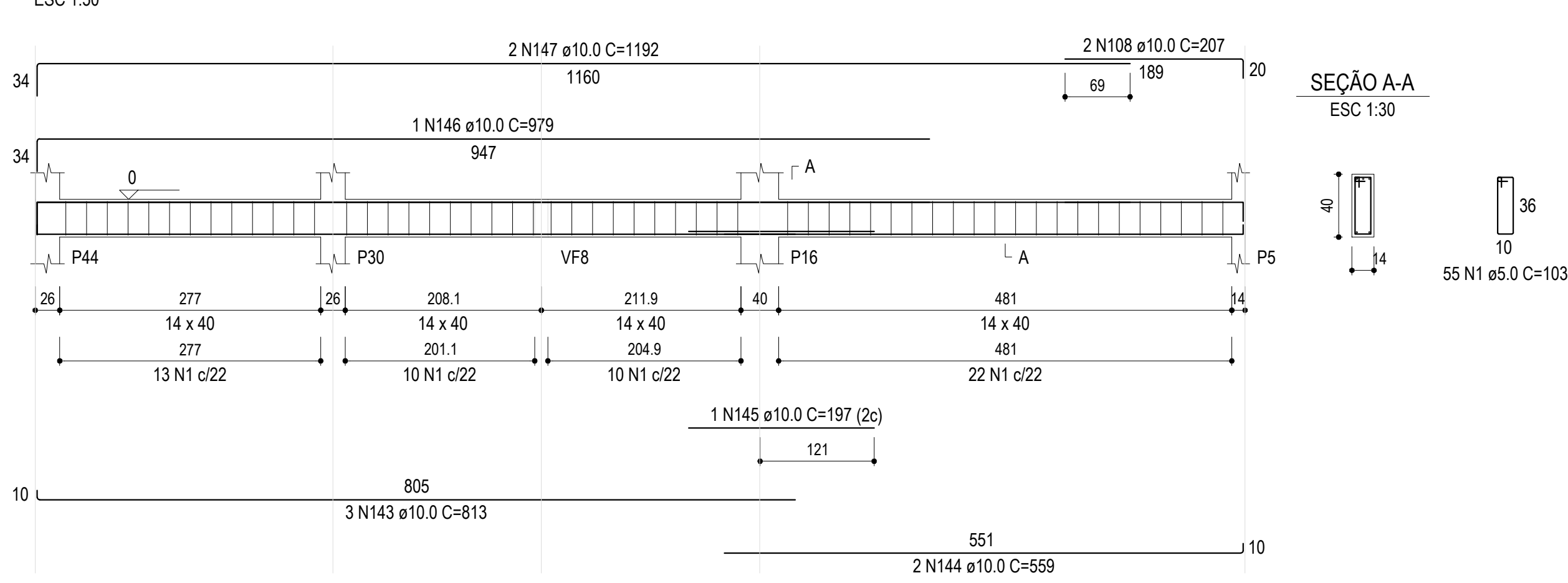
VF35 (14 x 40)



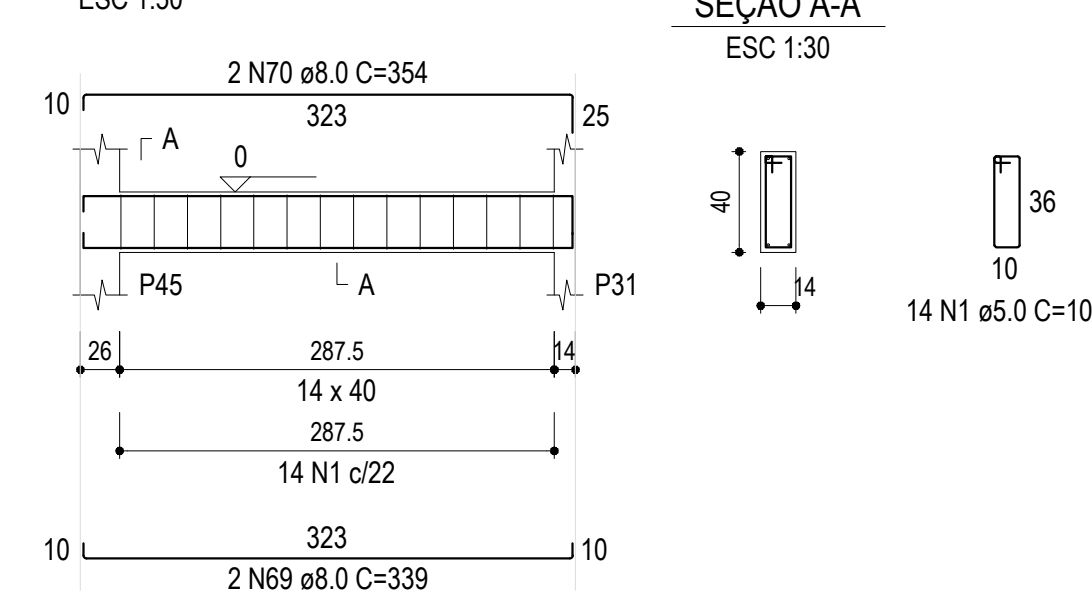
VF36 (14 x 40)



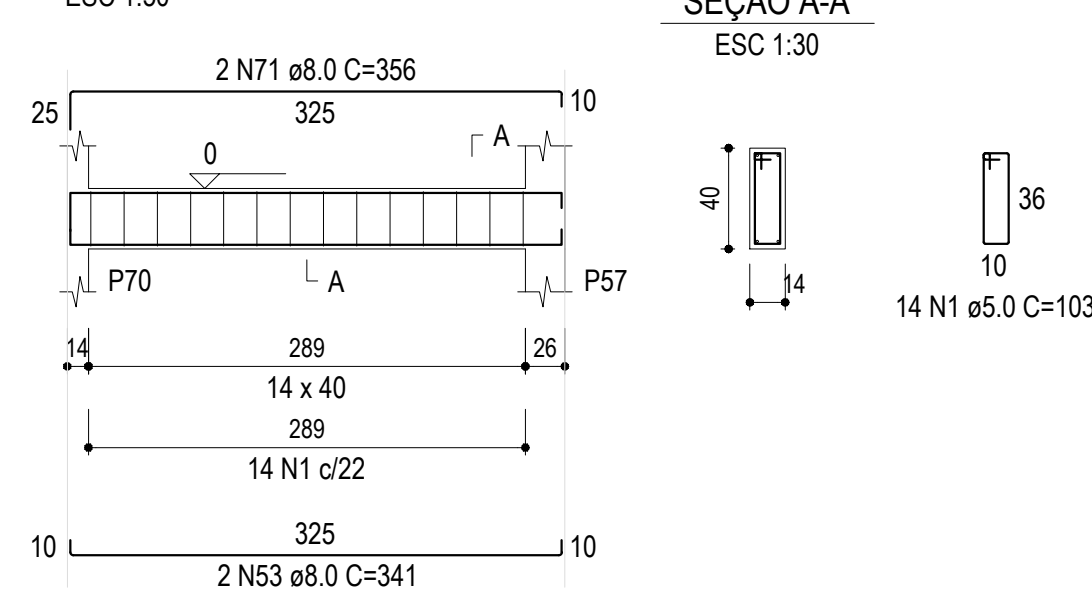
VF37 (14 x 40)



VF38 (14 x 40)



VF39 (14 x 40)



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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VIGAS FUNDAÇÃO

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON
DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 11:49:16 -03'00'

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

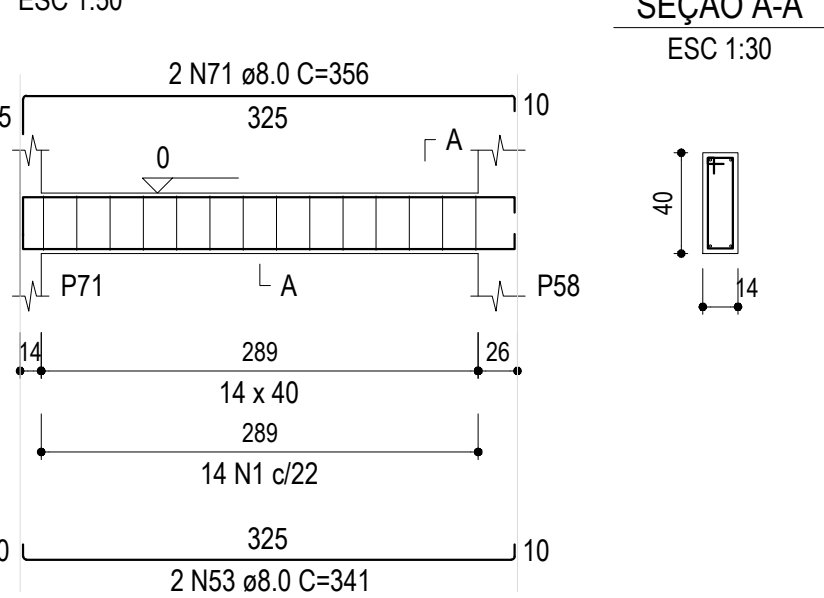
DATA
Outubro/2023

ESCALA
INDICADA

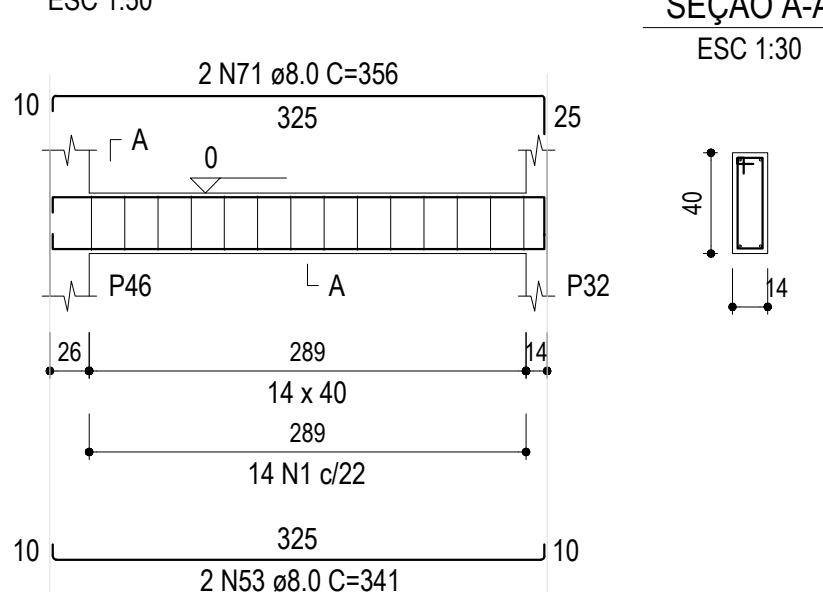
FOLHA

14

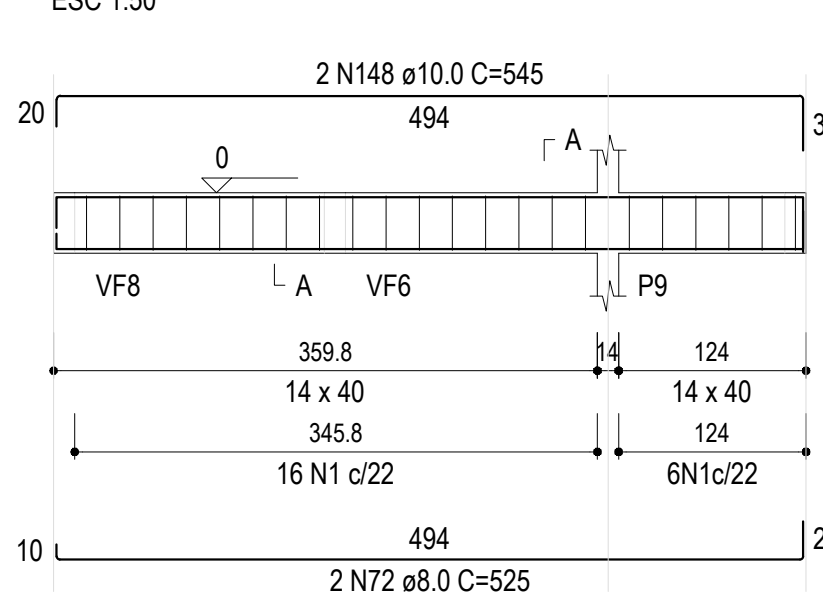
VF40 (14 x 40)



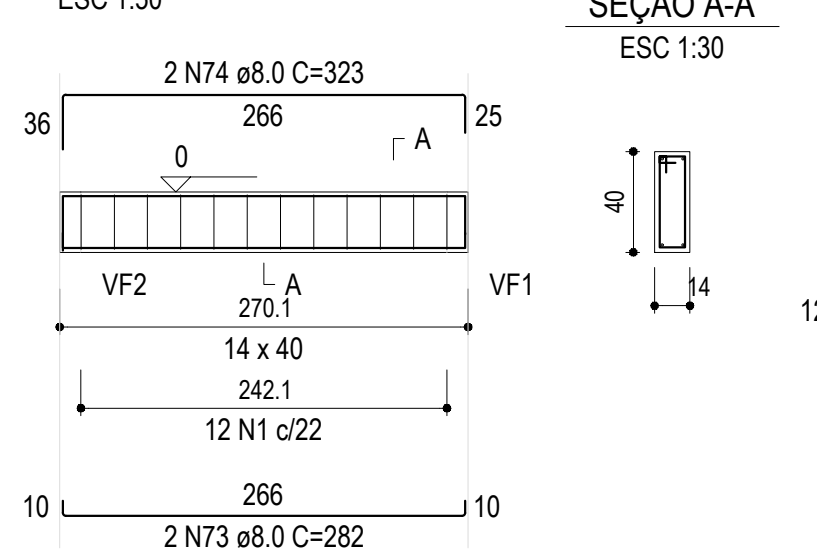
VF41 (14 x 40)



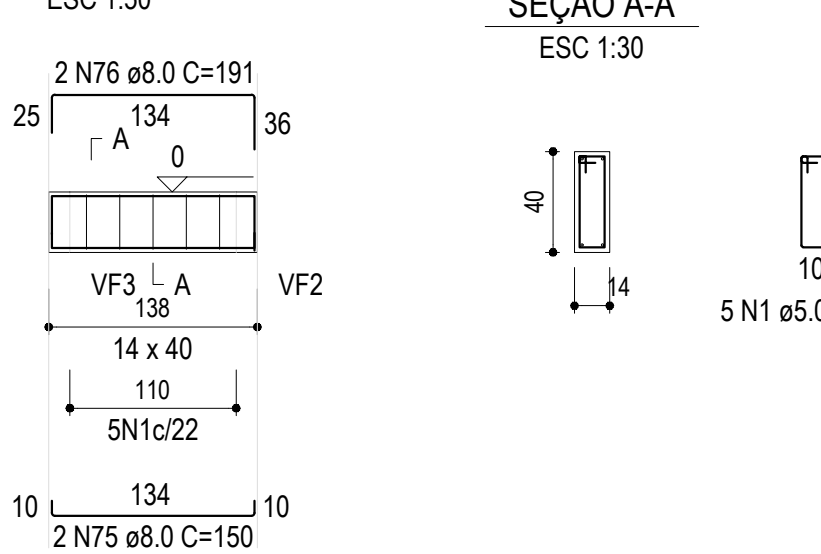
VF42 (14 x 40)



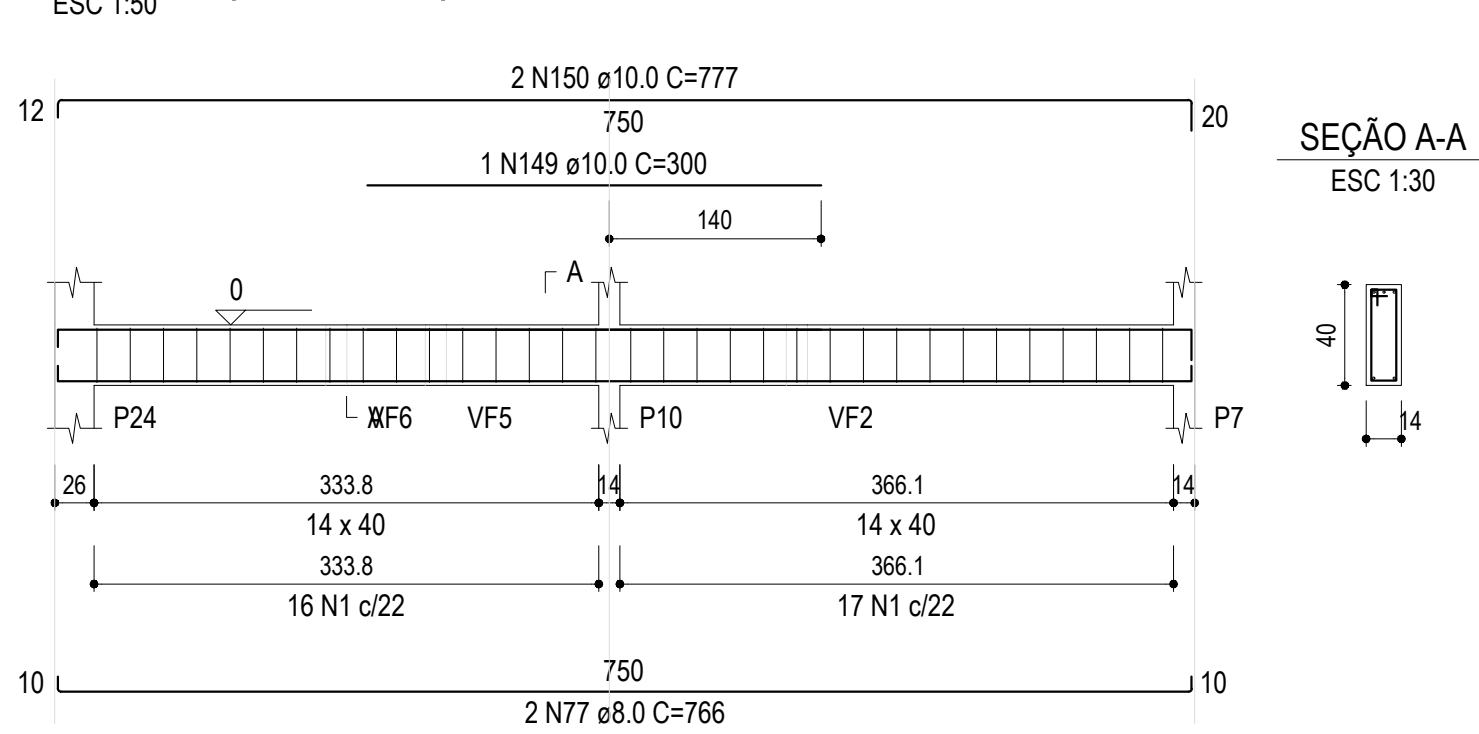
VF43 (14 x 40)



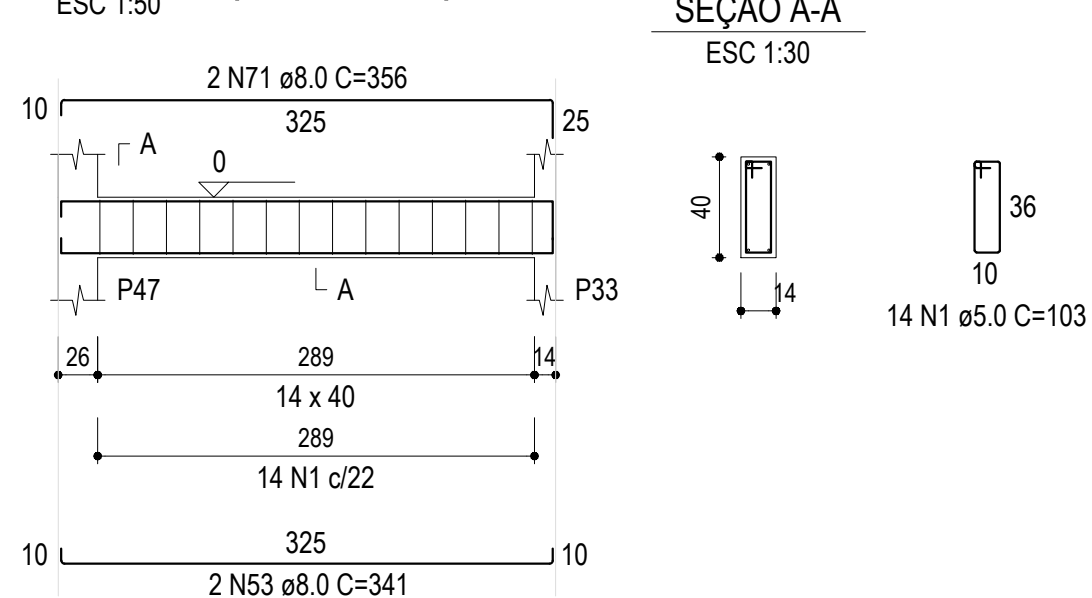
VF44 (14 x 40)



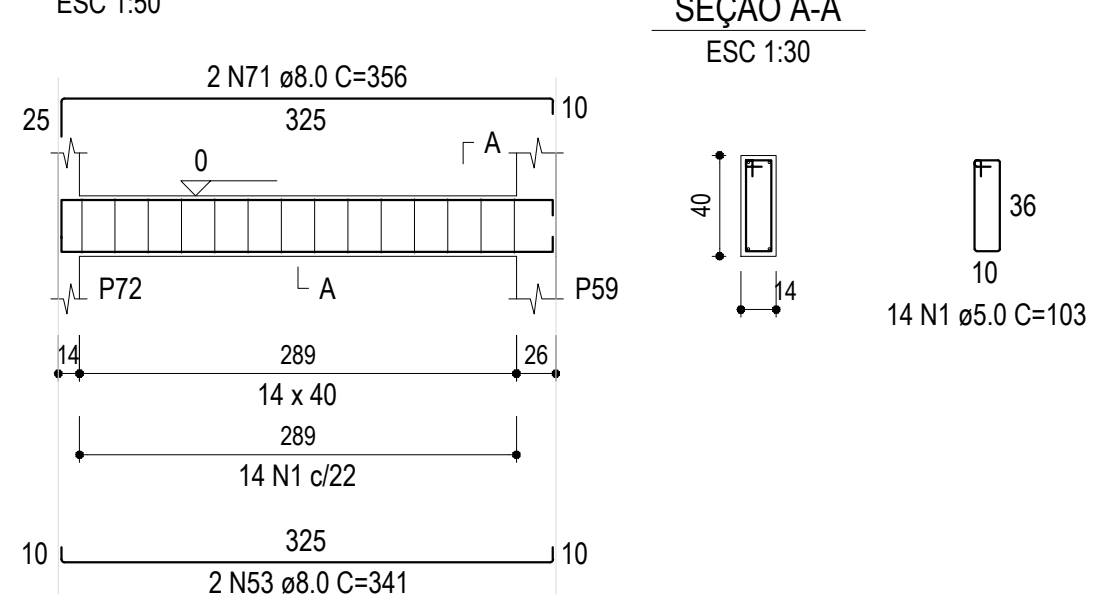
VF45 (14 x 40)



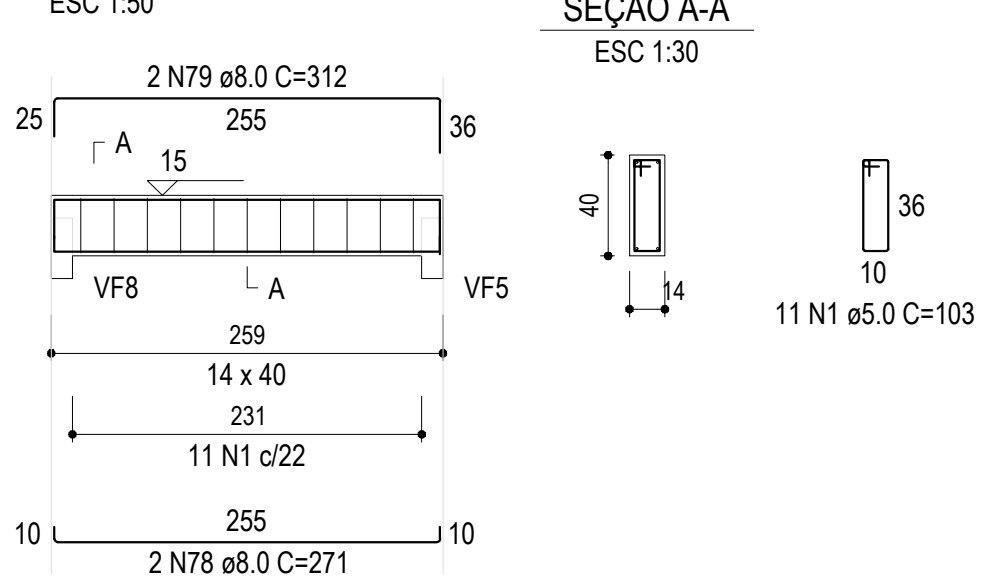
VF46 (14 x 40)



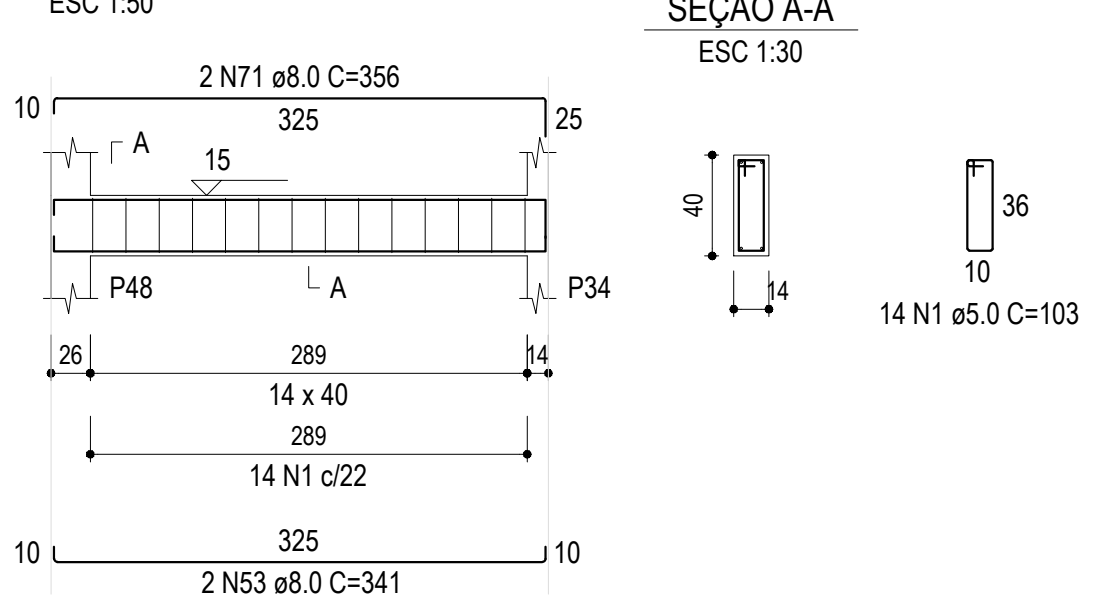
VF47 (14 x 40)



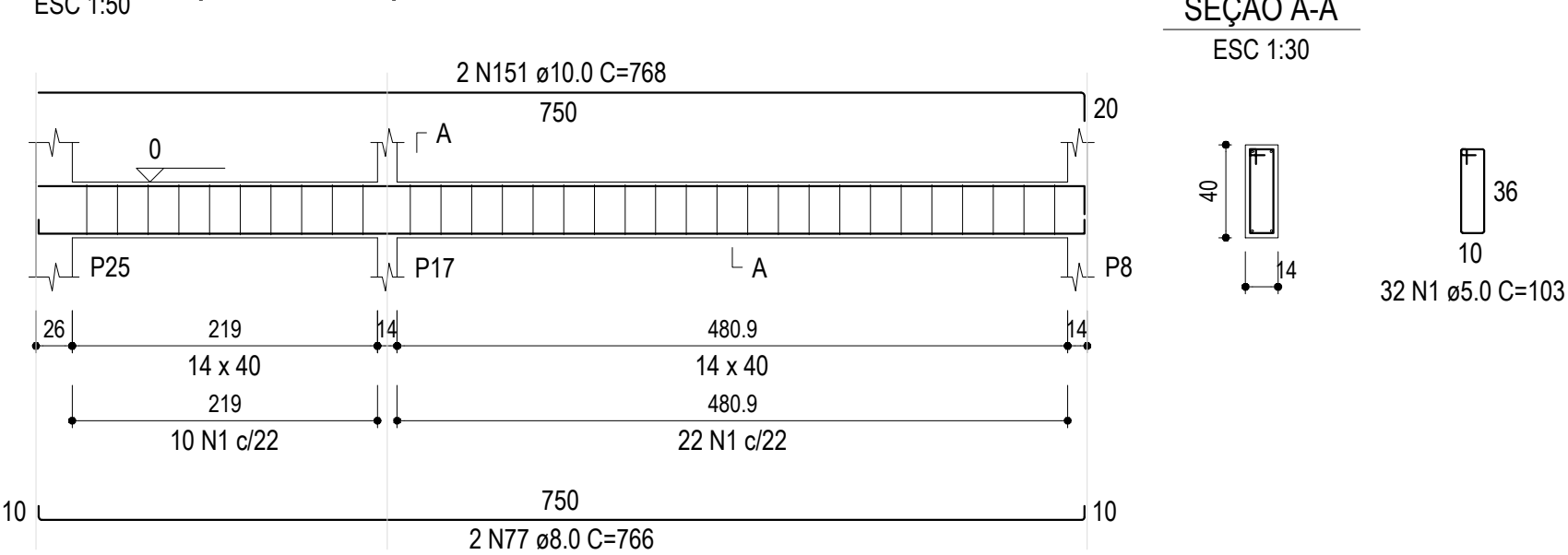
VF48 (14 x 40)



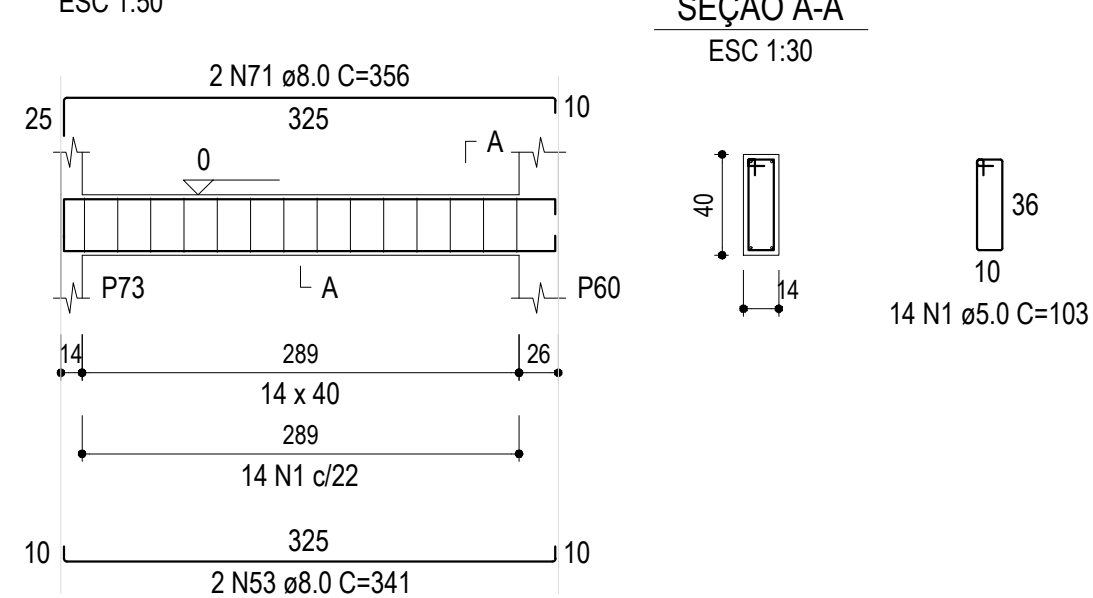
VF52 (14 x 40)



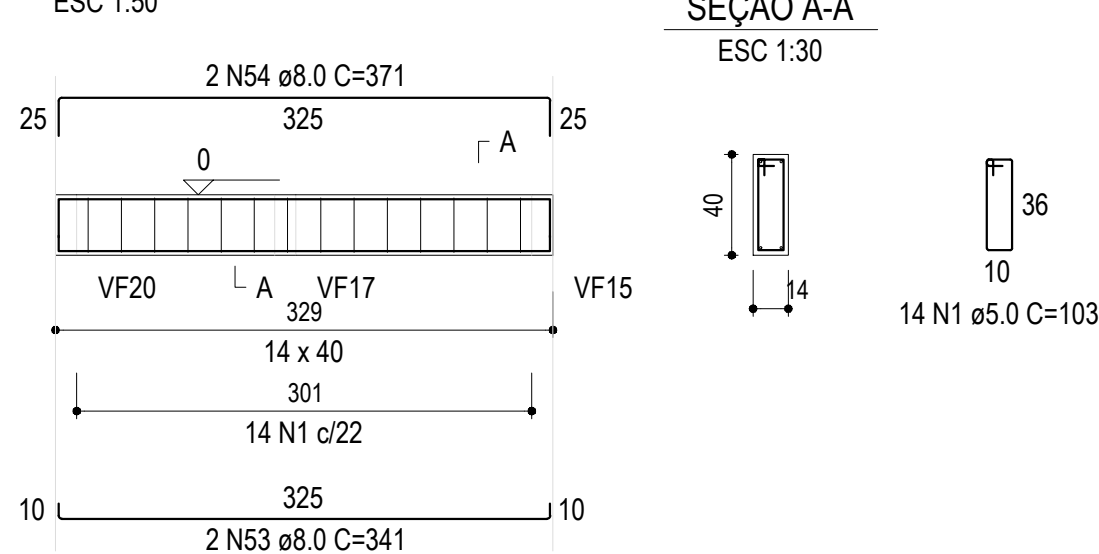
VF49 (14 x 40)



VF50 (14 x 40)



VF51 (14 x 40)



GAMA-Z ENGENHARIA LTDA | CREA-RS 249.562
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eng.edmilsondieter@gmail.com

PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO
BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VIGAS FUNDAÇÃO

PROPRIETÁRIO

**PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara**

EDMILSON
DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 11:48:56 -03'00'

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

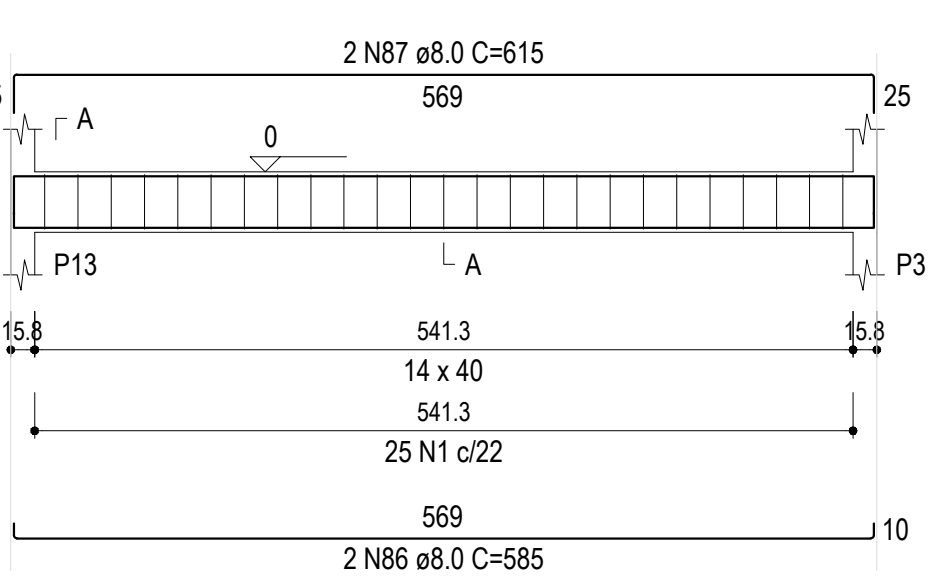
DATA
Outubro/2023

ESCALA
INDICADA

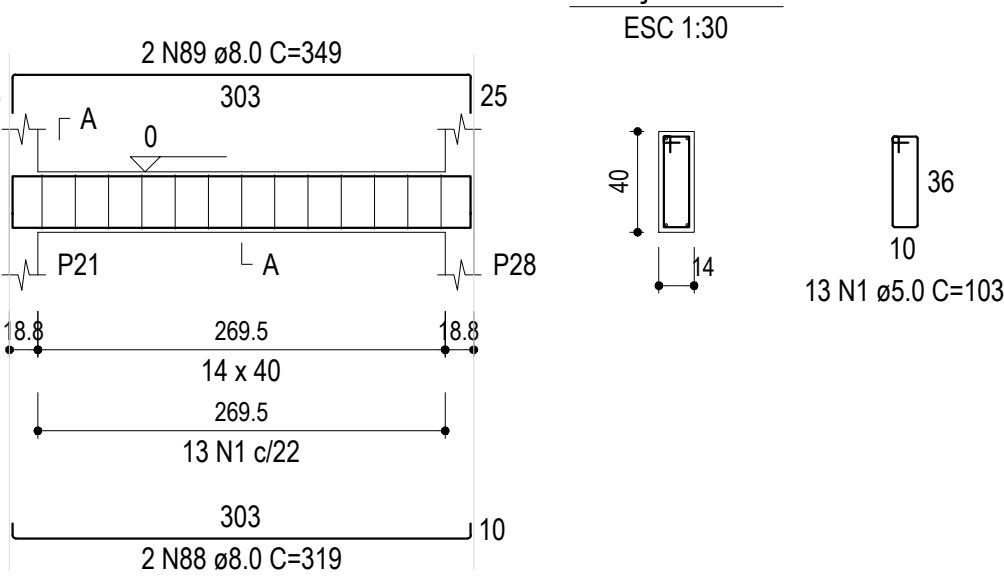
FOLHA

15

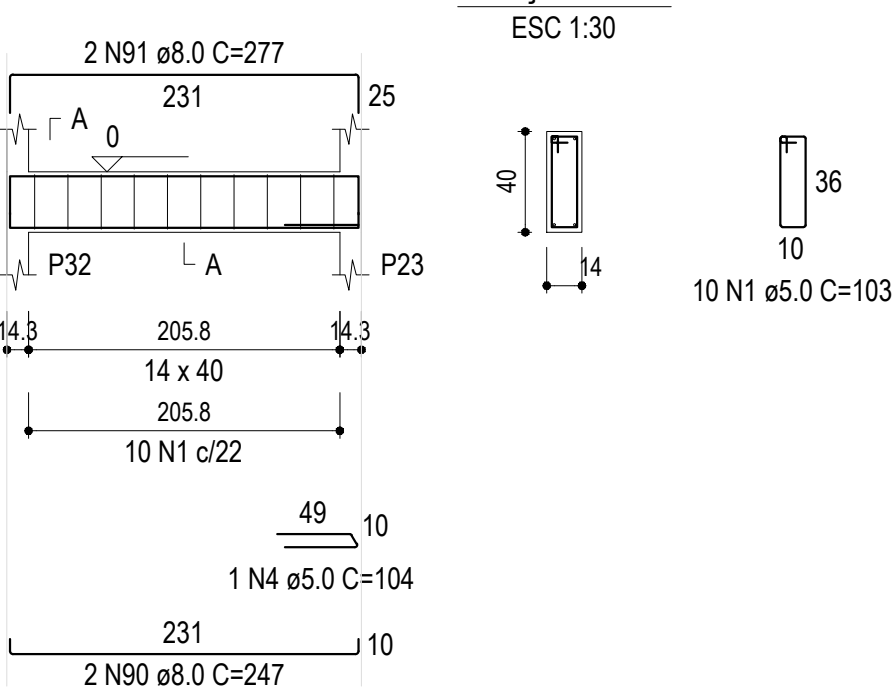
VF56 (14 x 40)



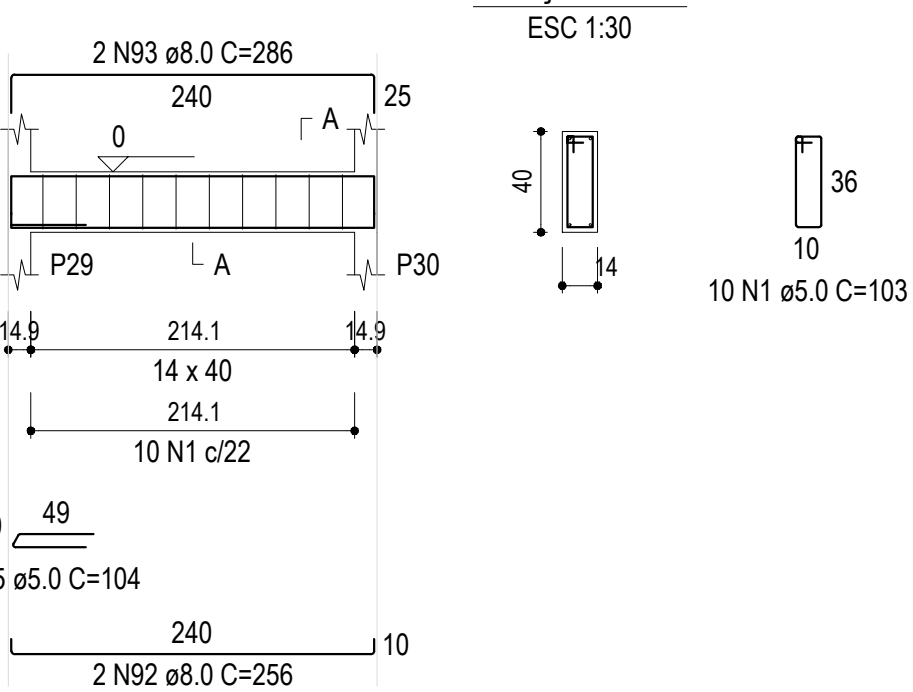
VF57 (14 x 40)



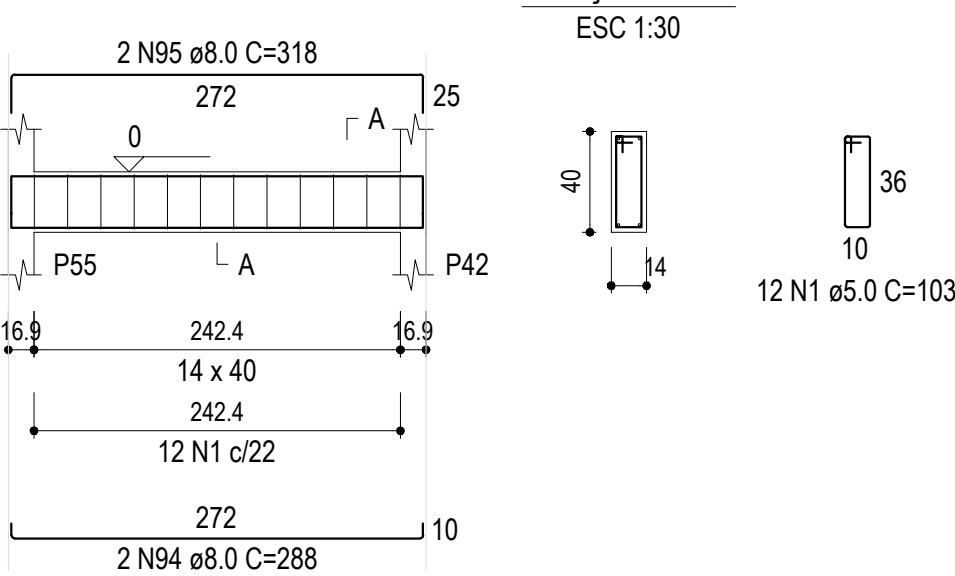
VF58 (14 x 40)



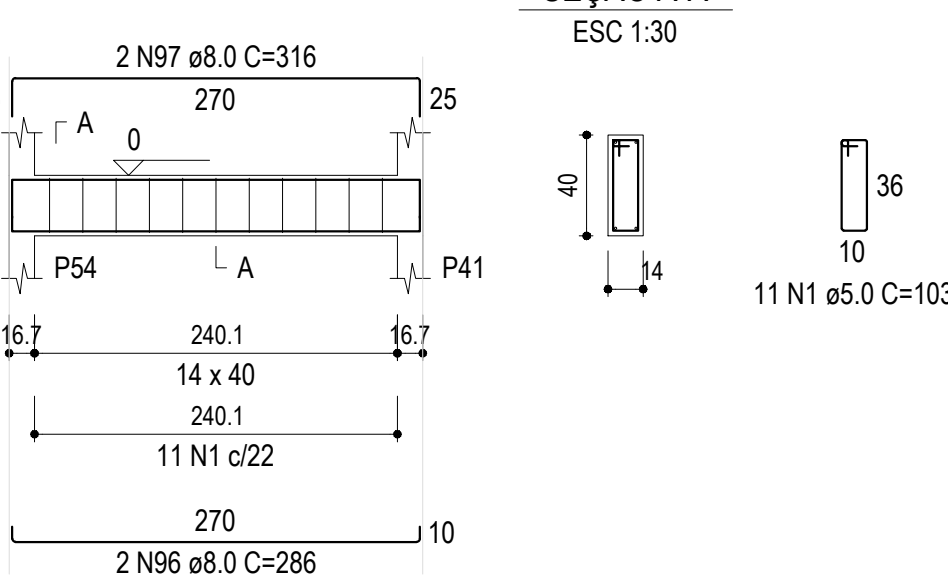
VF59 (14 x 40)



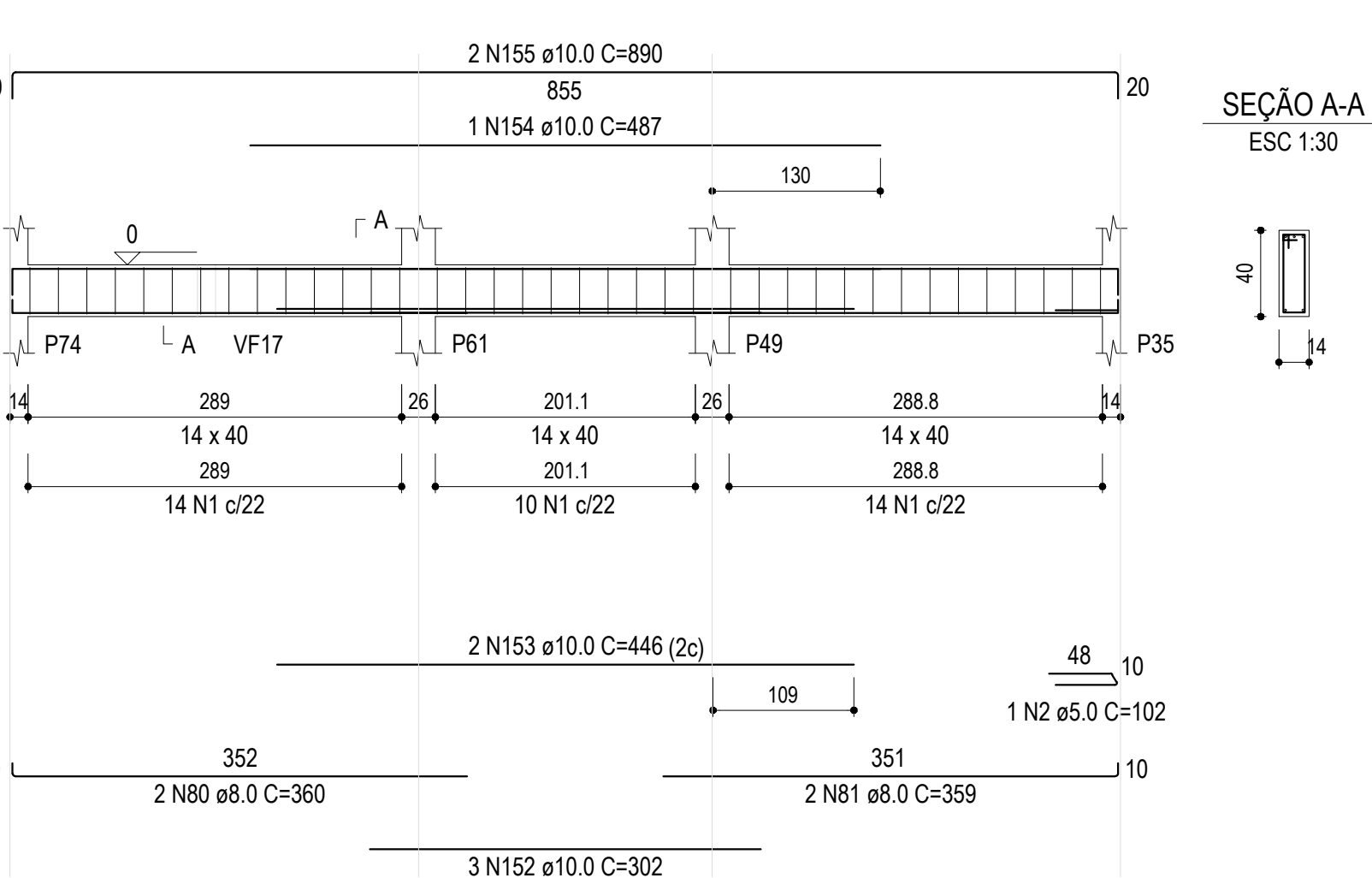
VF60 (14 x 40)



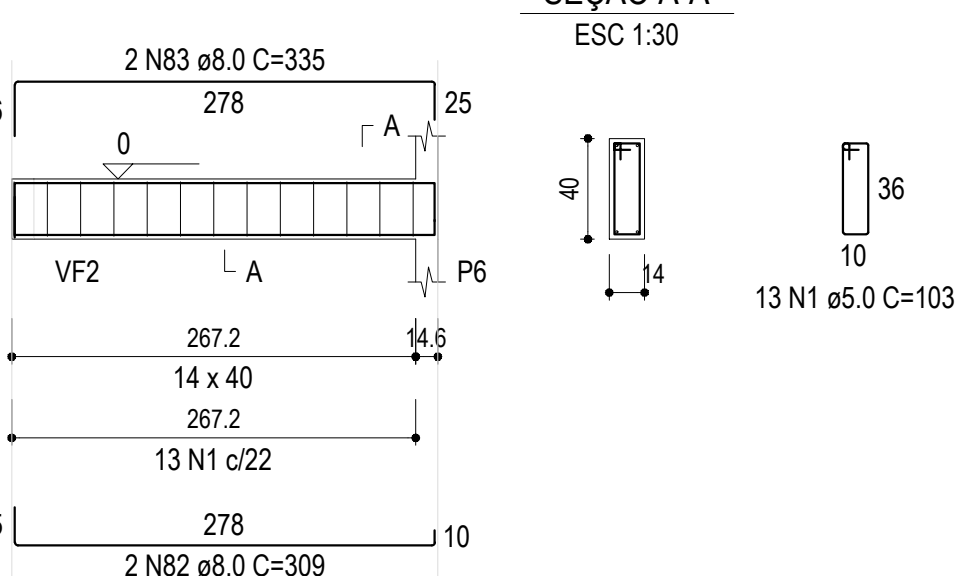
VF61 (14 x 40)



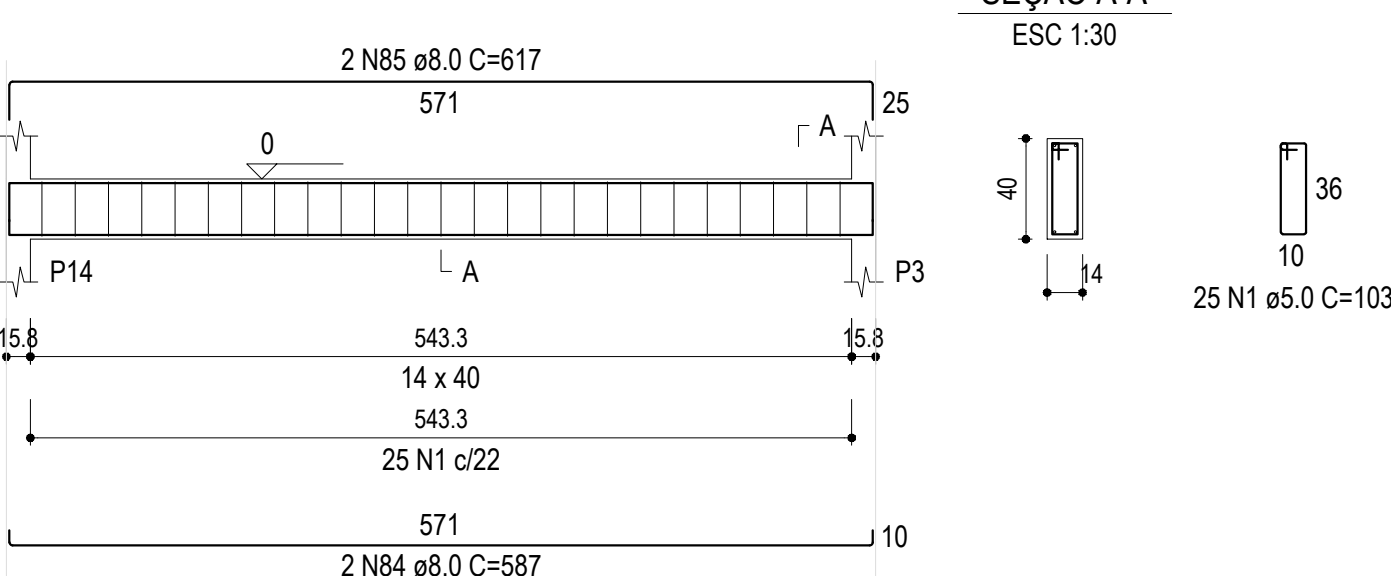
VF53 (14 x 40)



VF54 (14 x 40)



VF55 (14 x 40)



RESUMO DO AÇO VIGAS FUNDAÇÃO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	1285.7	108	507.3
CA60	10.0	717.6	60	442.4
CA60	5.0	1796.5	-	276.9
PESO TOTAL (kg)				
CA50	949.8			
CA60	276.9			

Volume de concreto (C-25) = 22.52 m³
Área de forma = 378.23 m²



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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO
BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VIGAS FUNDAÇÃO

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON
DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 11:48:35 -03'00'

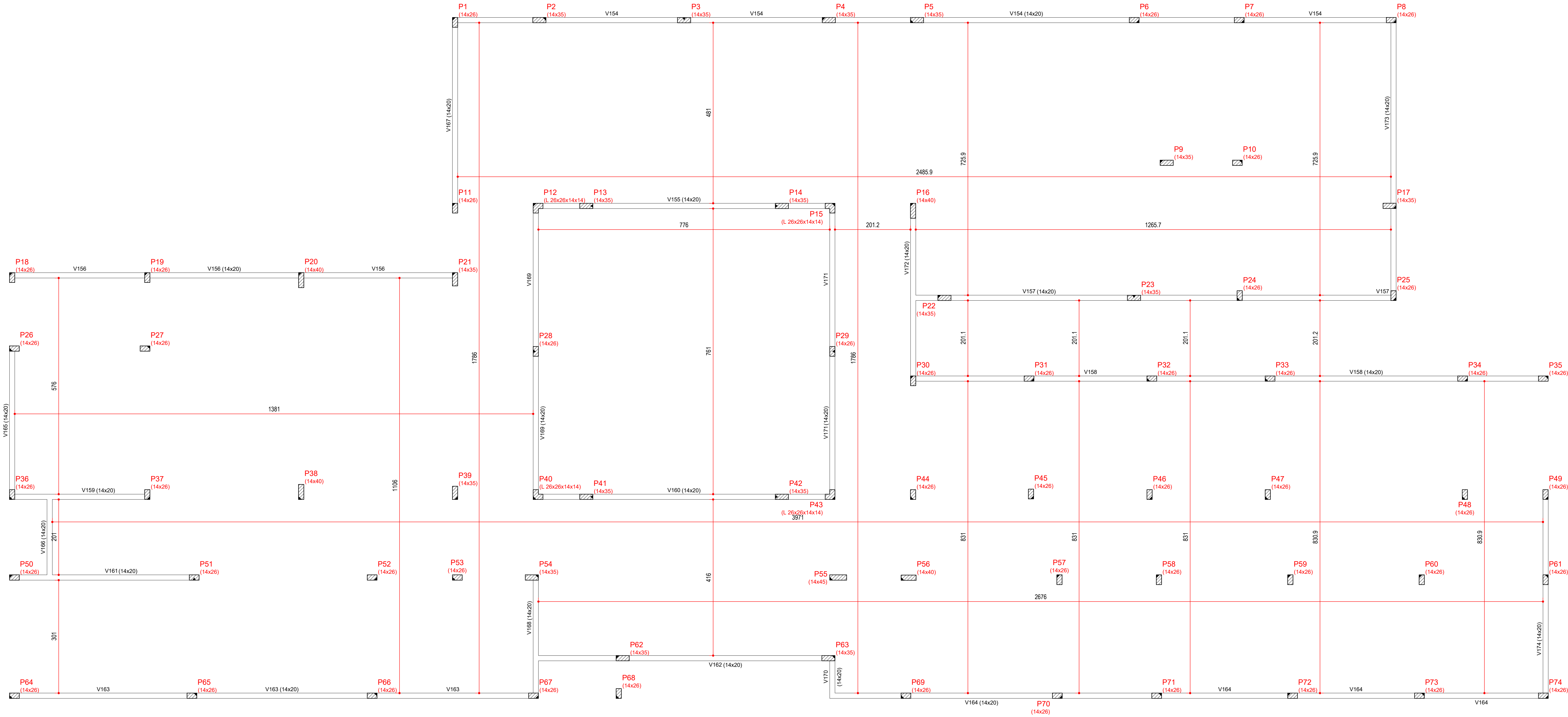
Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA
Outubro/2023

ESCALA
INDICADA

FOLHA

16



Forma vergas Primeiro Pavimento (Nível 235)
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V154	14x20	0	235
V155	14x20	0	235
V156	14x20	0	235
V157	14x20	0	235
V158	14x20	0	235
V159	14x20	0	235
V160	14x20	0	235
V161	14x20	0	235
V162	14x20	0	235
V163	14x20	0	235
V164	14x20	0	235
V165	14x20	0	235
V166	14x20	0	235
V167	14x20	0	235
V168	14x20	0	235
V169	14x20	0	235
V170	14x20	0	235
V171	14x20	0	235
V172	14x20	0	235
V173	14x20	0	235
V174	14x20	0	235

Características dos materiais			
fck (kgf/cm²)	Ecs (kgf/cm²)	fct (kgf/cm²)	Abatimento (cm)
250	241500	26	5.00

Dimensão máxima do agregado = 19 mm



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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

FORMA VERGAS

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON
DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 12:15:49 -03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

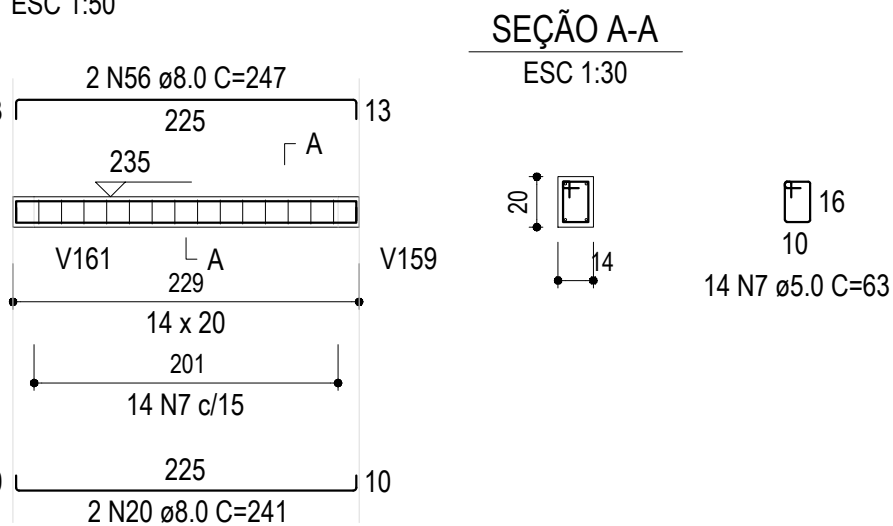
DATA
Outubro/2023

ESCALA
INDICADA

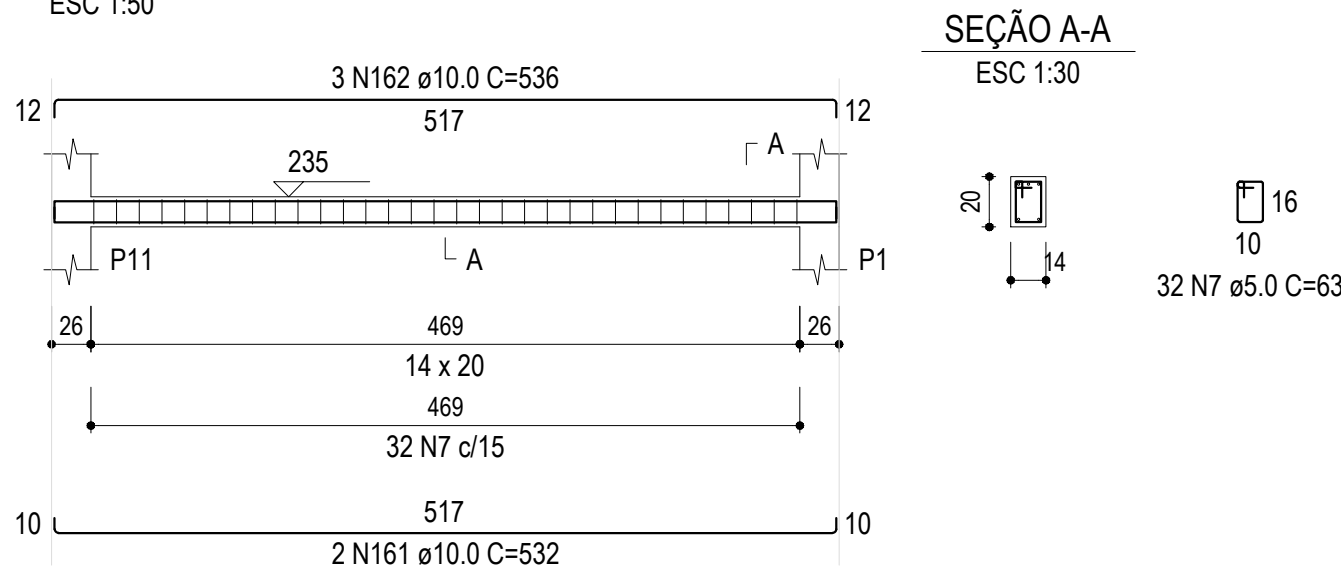
FOLHA

17

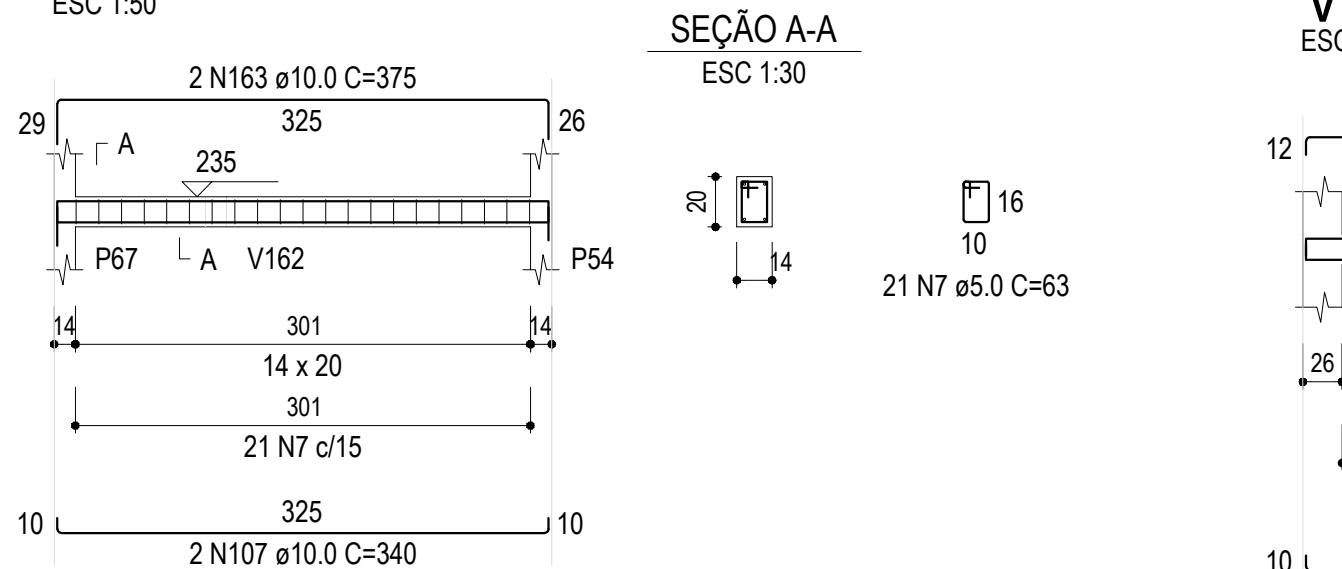
V166 (14 x 20)



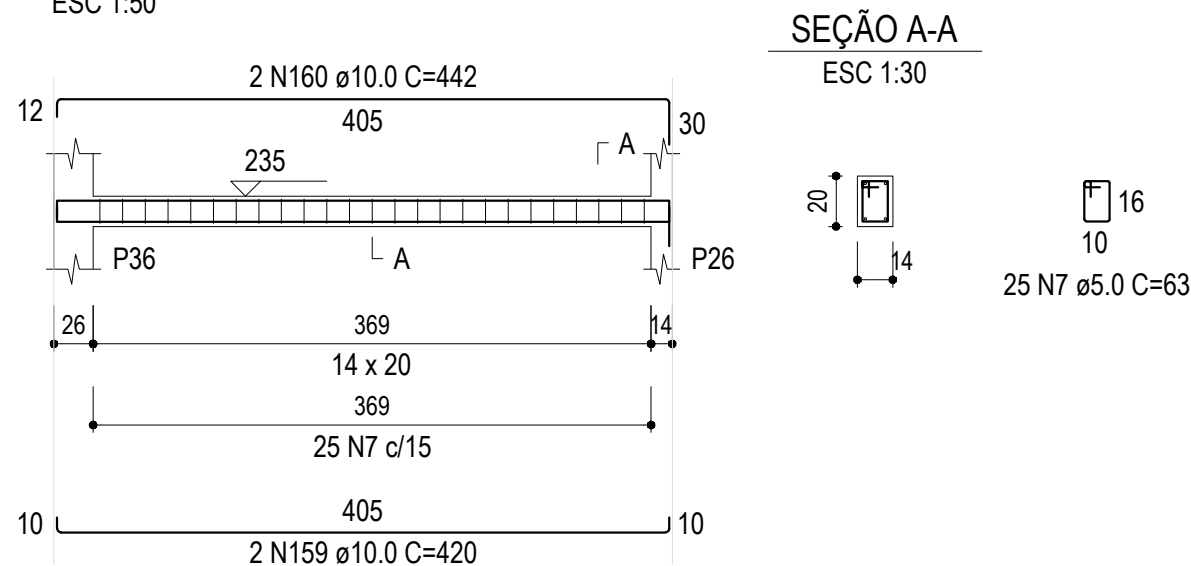
V167 (14 x 20)



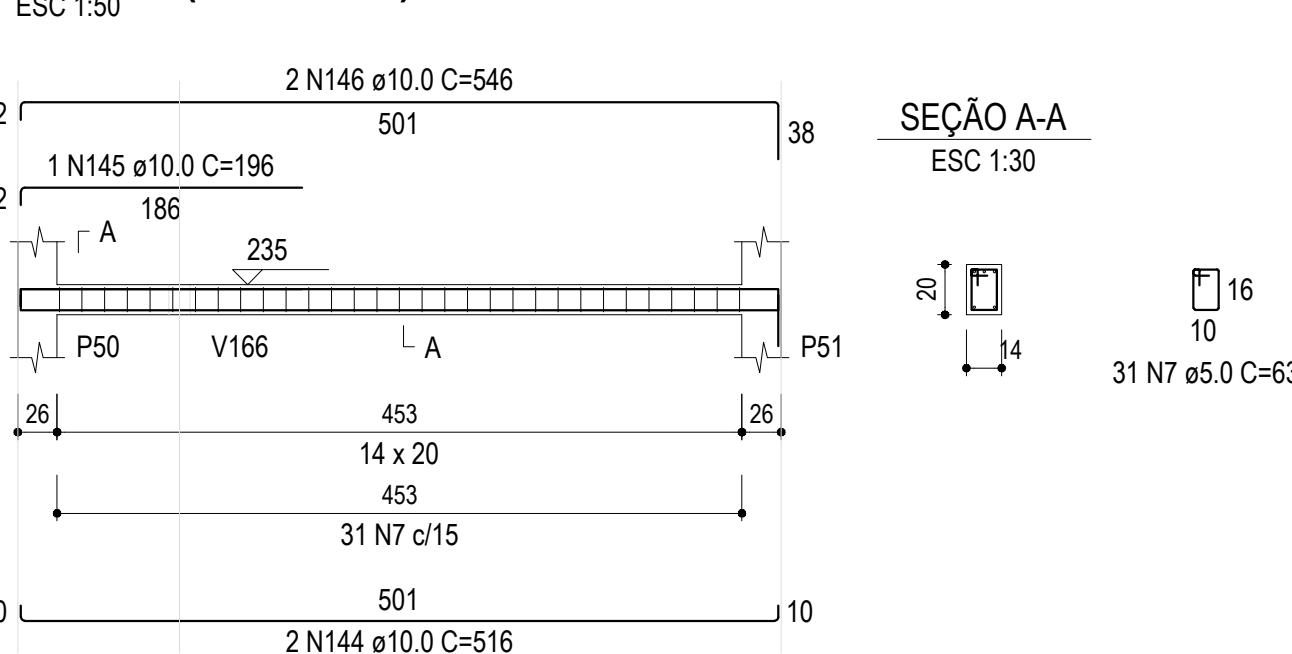
V168 (14 x 20)



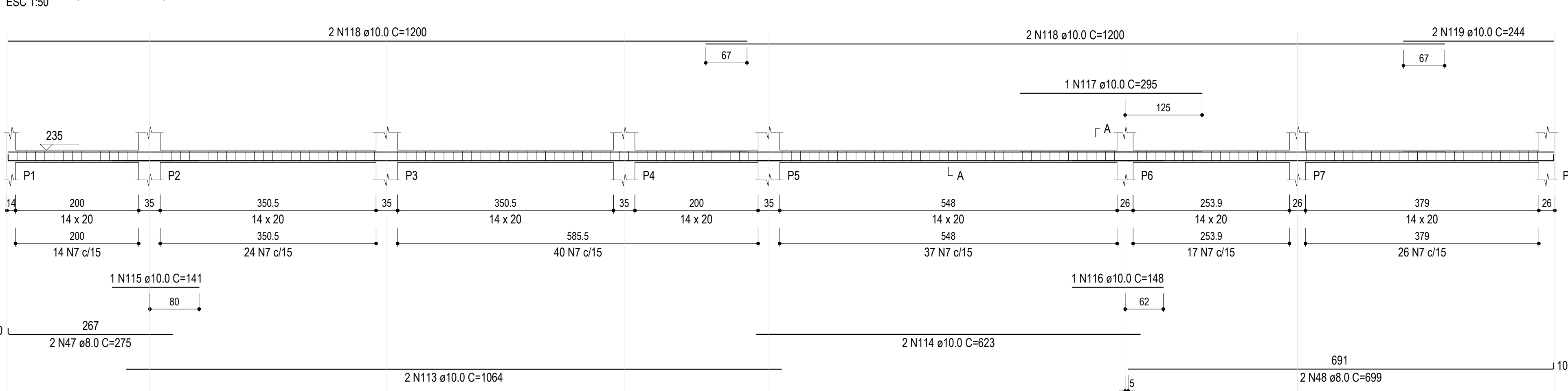
V165 (14 x 20)



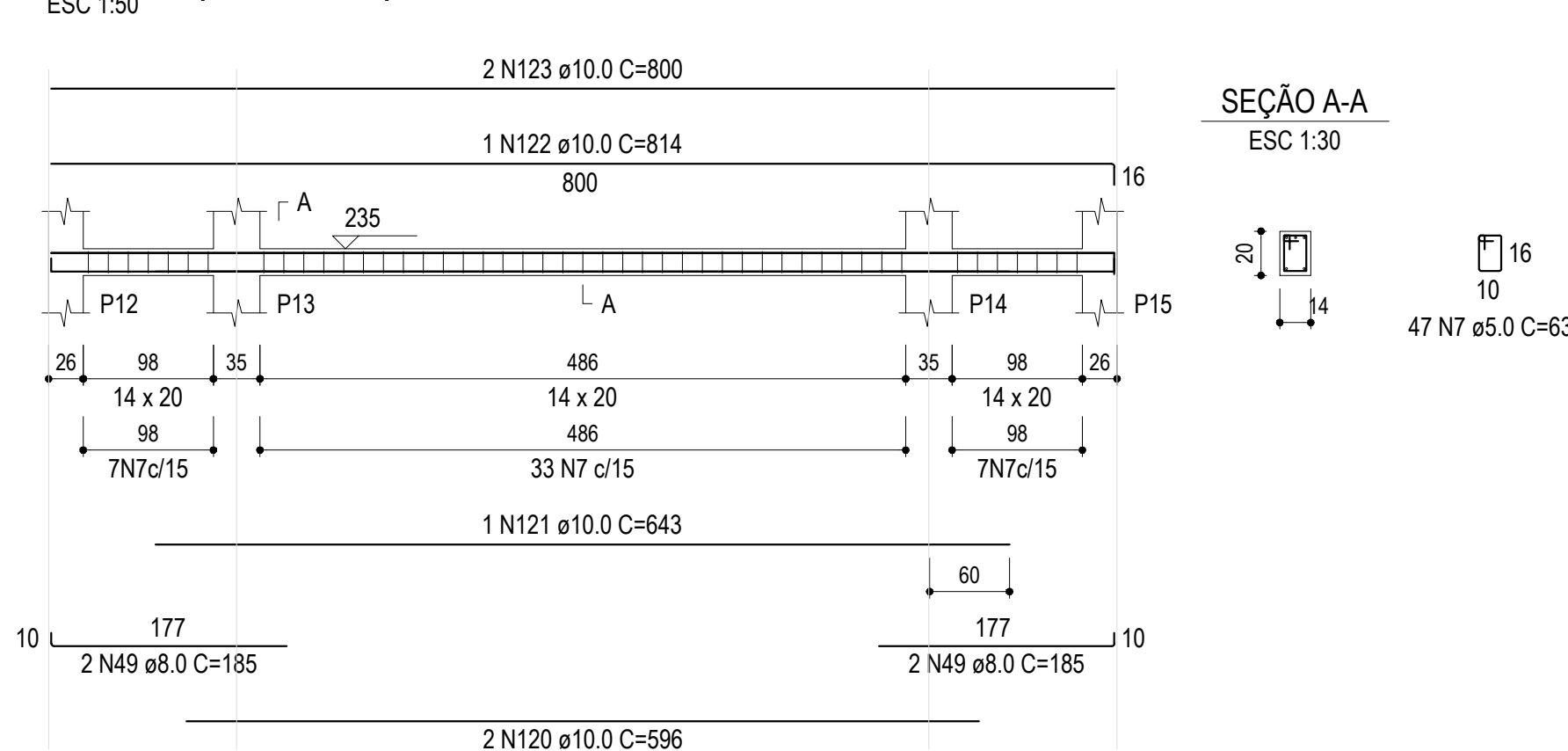
V161 (14 x 20)



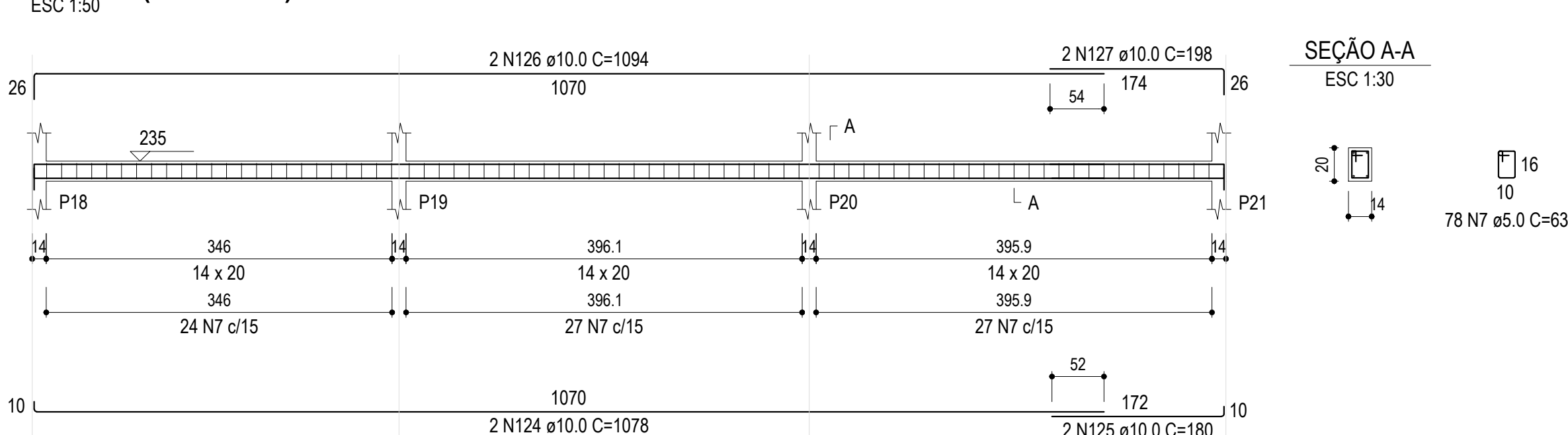
V154 (14 x 20)



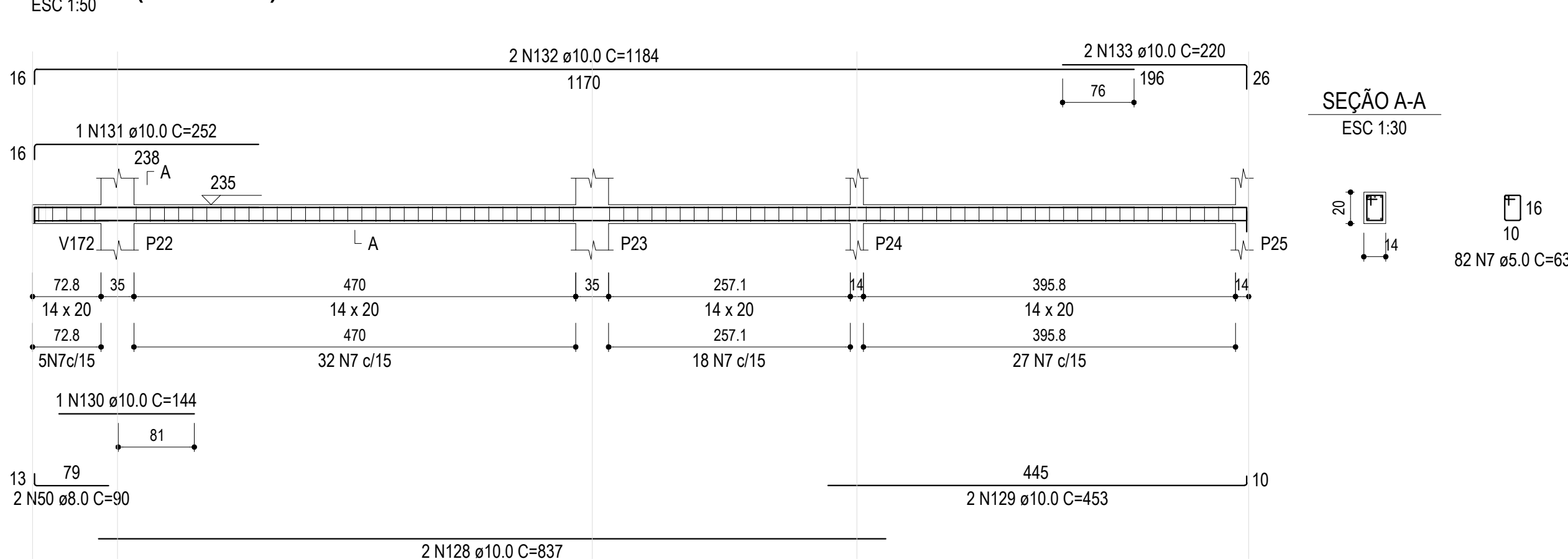
V155 (14 x 20)



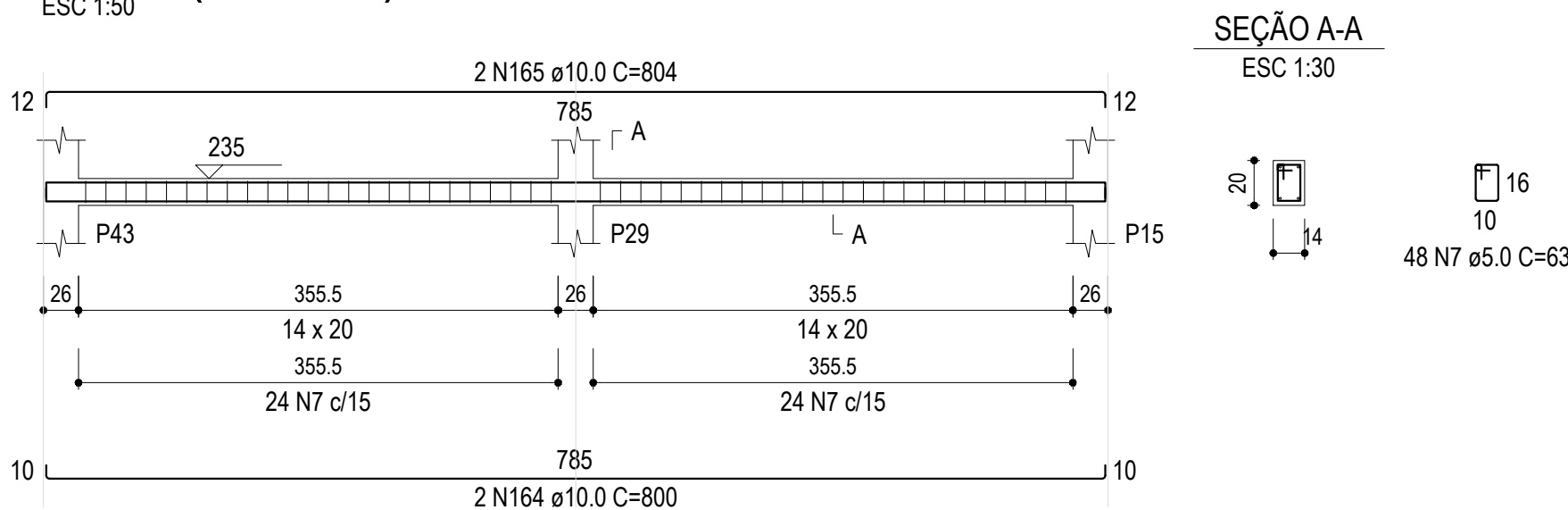
V156 (14 x 20)



V157 (14 x 20)



V171 (14 x 20)



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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO
BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VERGAS

PROPRIETÁRIO

**PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara**

EDMILSON
DIETER:00043470050

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA
Outubro/2023

ESCALA
INDICADA

FOLHA

18

ESC 1:50



ESC 1:50



ESC 1:50



ESC 1:50



ESC 1:50



ESC 1:50



ESC 1:50



ESC 1:50



ESC 1-50



NATUREZA DO PROJETO

ENDERECO

BAIRRO CHÁCARA IBIRUBÁ RS

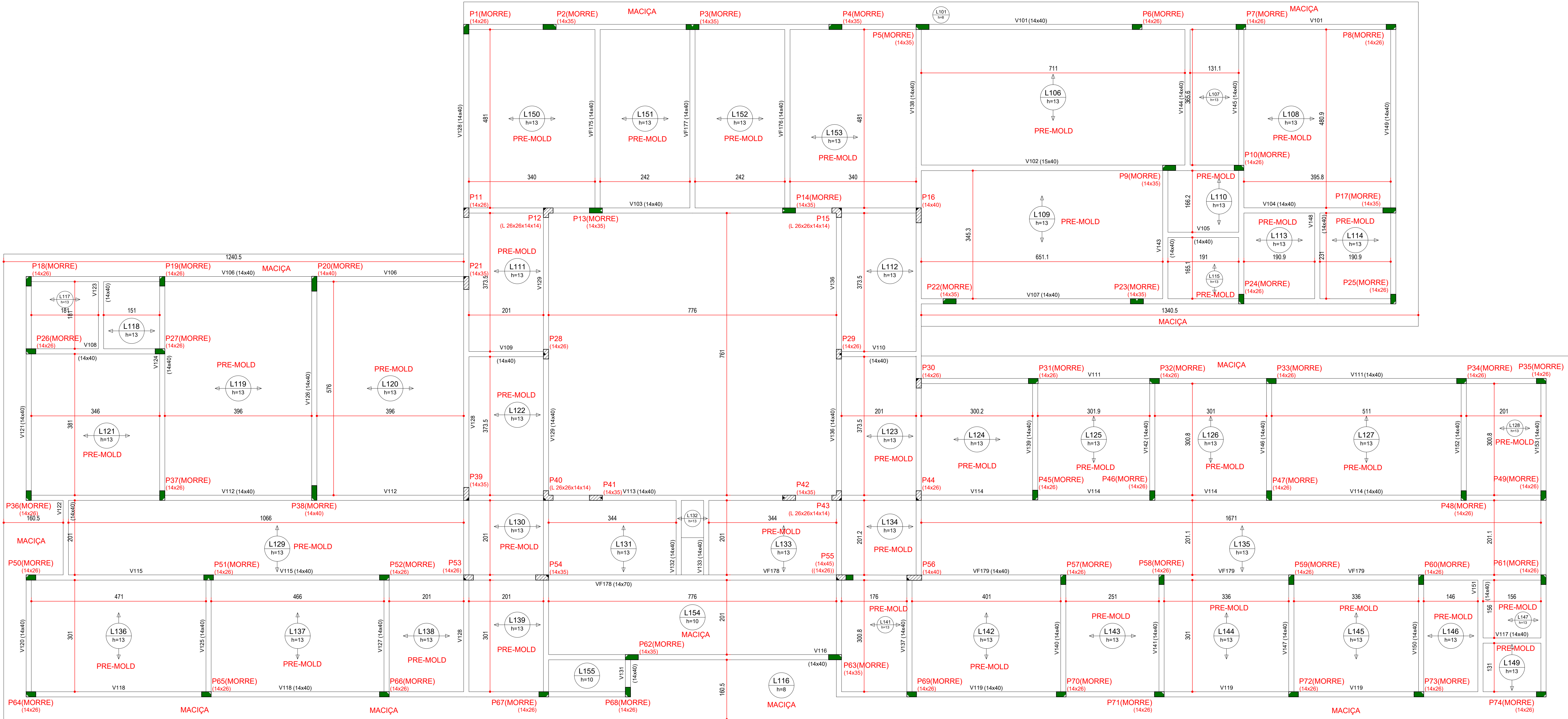
CONTEÚDO

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 12:03:57 -03'00'

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA
Outubro/2023

ESCALA
INDICADA



Forma do pavimento Primeiro Pavimento (Nível 410)
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V101	14x40	0	410
V102	15x40	0	410
V103	14x40	0	410
V104	14x40	0	410
V105	14x40	0	410
V106	14x40	0	410
V107	14x40	0	410
V108	14x40	0	410
V109	14x40	0	410
V110	14x40	0	410
V111	14x40	0	410
V112	14x40	0	410
V113	14x40	0	410
V114	14x40	0	410
V115	14x40	0	410
V116	14x40	0	410
V117	14x40	0	410
V118	14x40	0	410
V119	14x40	0	410
V120	14x40	0	410
V121	14x40	0	410
V122	14x40	0	410
V123	14x40	0	410
V124	14x40	0	410
V125	14x40	0	410
V126	14x40	0	410

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V127	14x40	0	410
V128	14x40	0	410
V129	14x40	0	410
V130	14x40	0	410
V131	14x40	0	410
V132	14x40	0	410
V133	14x40	0	410
V134	14x40	0	410
V135	14x40	0	410
V136	14x40	0	410
V137	14x40	0	410
V138	14x40	0	410
V139	14x40	0	410
V140	14x40	0	410
V141	14x40	0	410
V142	14x40	0	410
V143	14x40	0	410
V144	14x40	0	410
V145	14x40	0	410
V146	14x40	0	410
V147	14x40	0	410
V148	14x40	0	410
V149	14x40	0	410
V150	14x40	0	410
V151	14x40	0	410
V152	14x40	0	410
V153	14x40	0	410
V154	14x40	0	410
V155	14x40	0	410
V156	14x40	0	410
V157	14x40	0	410
V158	14x40	0	410
V159	14x40	0	410

Lajes				
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)
L101	Maciça	8	0	410
L106	Pré-moldada	13	0	410
L107	Pré-moldada	13	0	410
L108	Pré-moldada	13	0	410
L109	Pré-moldada	13	0	410
L110	Pré-moldada	13	0	410
L111	Pré-moldada	13	0	410
L112	Pré-moldada	13	0	410
L113	Pré-moldada	13	0	410
L114	Pré-moldada	13	0	410
L115	Pré-moldada	13	0	410
L116	Maciça	8	0	410
L117	Pré-moldada	13	0	410
L118	Pré-moldada	13	0	410
L119	Pré-moldada	13	0	410
L120	Pré-moldada	13	0	410
L121	Pré-moldada	13	0	410
L122	Pré-moldada	13	0	410
L123	Pré-moldada	13	0	410
L124	Pré-moldada	13	0	410
L125	Pré-moldada	13	0	410
L126	Pré-moldada	13	0	410
L127	Pré-moldada	13	0	410

Lajes				
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)
L128	Pré-moldada	13	0	410
L129	Pré-moldada	13	0	410
L130	Pré-moldada	13	0	410
L131	Pré-moldada	13	0	410
L132	Pré-moldada	13	0	410
L133	Pré-moldada	13	0	410
L134	Pré-moldada	13	0	410
L135	Pré-moldada	13	0	410
L136	Pré-moldada	13	0	410
L137	Pré-moldada	13	0	410
L138	Pré-moldada	13	0	410
L139	Pré-moldada	13	0	410
L140	Pré-moldada	13	0	410
L141	Pré-moldada	13	0	410
L142	Pré-moldada	13	0	410
L143	Pré-moldada	13	0	410
L144	Pré-moldada	13	0	410
L145	Pré-moldada	13	0	410
L146	Pré-moldada	13	0	410
L147	Pré-moldada	13	0	410
L148	Pré-moldada	13	0	410
L149	Pré-moldada	13	0	410
L150	Pré-moldada	13	0	410
L151	Pré-moldada	13	0	410
L152	Pré-moldada	13	0	410
L153	Pré-moldada	13	0	410
L154	Maciça	10	0	410
L155	Maciça	10	0	410

Características dos materiais			
fck (kgf/cm²)	Ecs (kgf/cm²)	fct (kgf/cm²)	Abatimento (cm)
250	241500	26	5.00

Dimensão máxima do agregado = 19 mm



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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO

BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VERGAS

PROPRIETÁRIO

PREFEITURA MUNICIPAL DE IBIRUBÁ CAPS - Bairro Chácara

EDMILSON

DIETER:00043470050

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 12:02:59 -03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

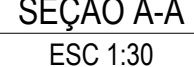
DATA
Outubro/2023

ESCALA
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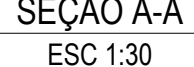
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20

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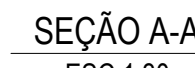
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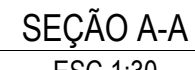
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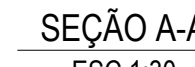
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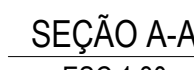


ESC 1:50



_____ / _____

ESC 1:50



100

Dieter J. Schiefelbusch

T51 (55) 22452 22471 (55) 2

engenh@iro.andre@amail.com

eng.edmilsondieter@gmail.com

PROJECTO

RAIRO C

DIETER 222

EDMILSON DIETER:00043470050

○ Dados: 2025.02.20 12:02:43

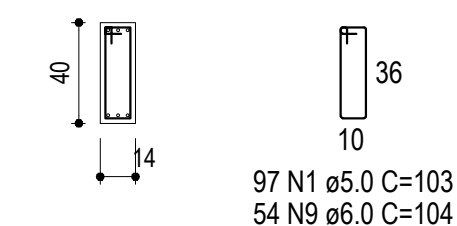
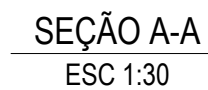
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Gama-Z Engenharia Ltda - CREA-RS PJ 249.562

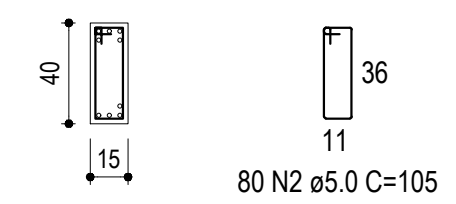
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 P. Civil/Infrastructure Building CR#1719000035

ESCALA

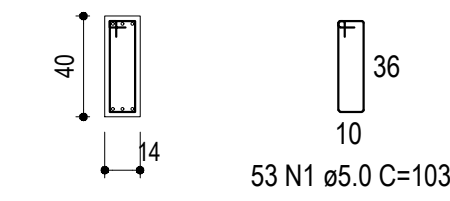
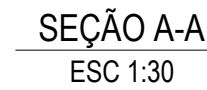
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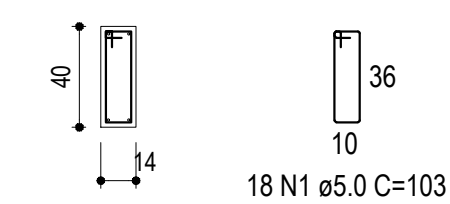
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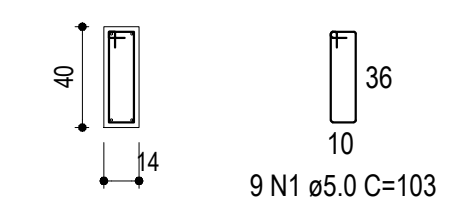
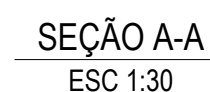
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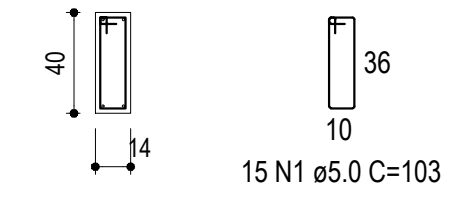
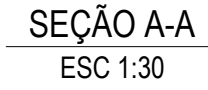
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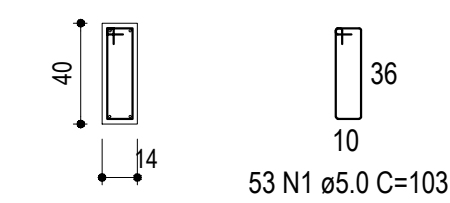
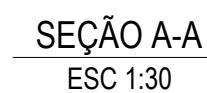
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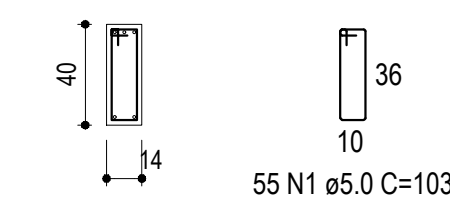
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ESC 1:50



ESC 1:50



PROJETOS INTEGRADOS

NATUREZA DO PROJETO

ENDEREÇO
BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

DIETER:00043470050

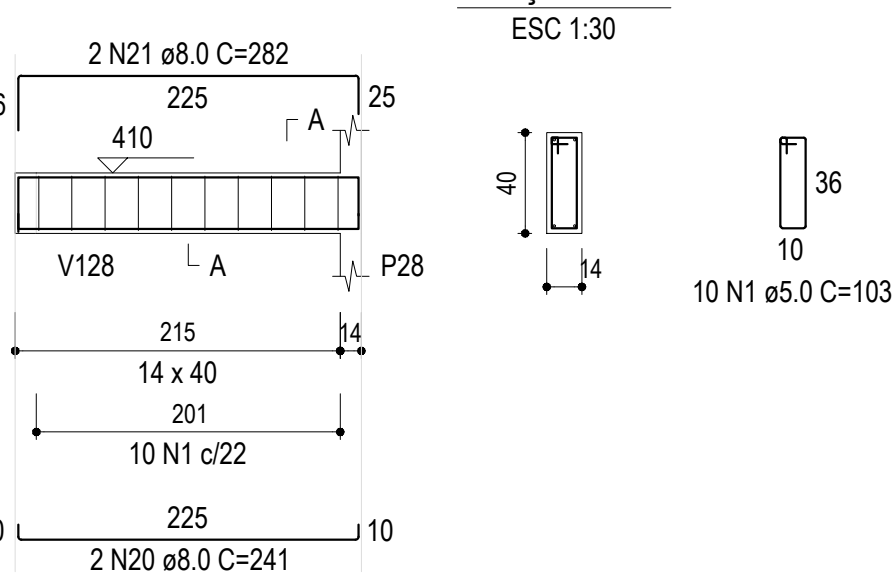
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EDMILSON DIETER:00043470050
Dados: 2025.02.20 12:02:28 -03'00'

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

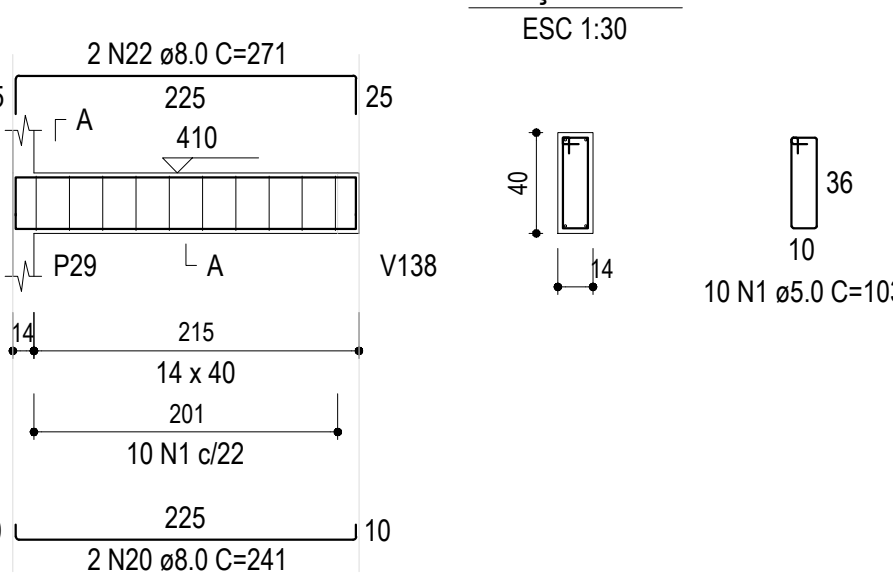
DATA
Outubro/2023

ESCALA
INDICADA

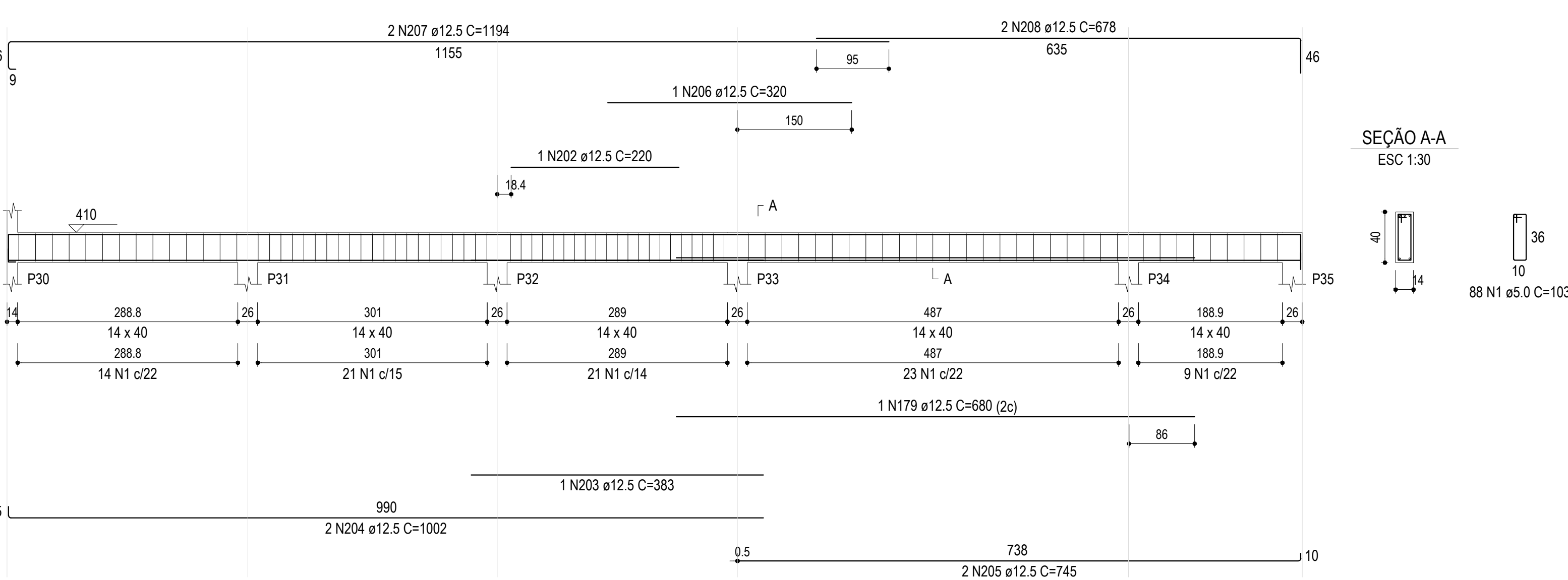
V109 (14 x 40)



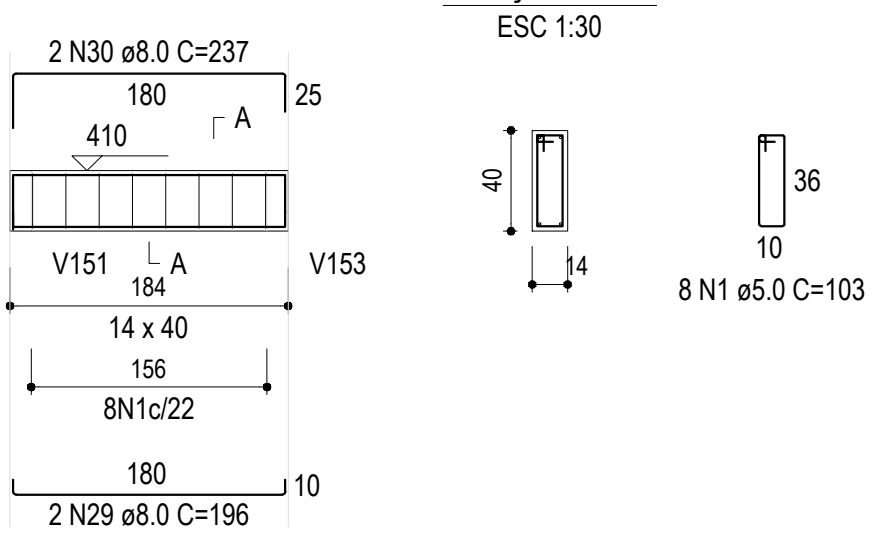
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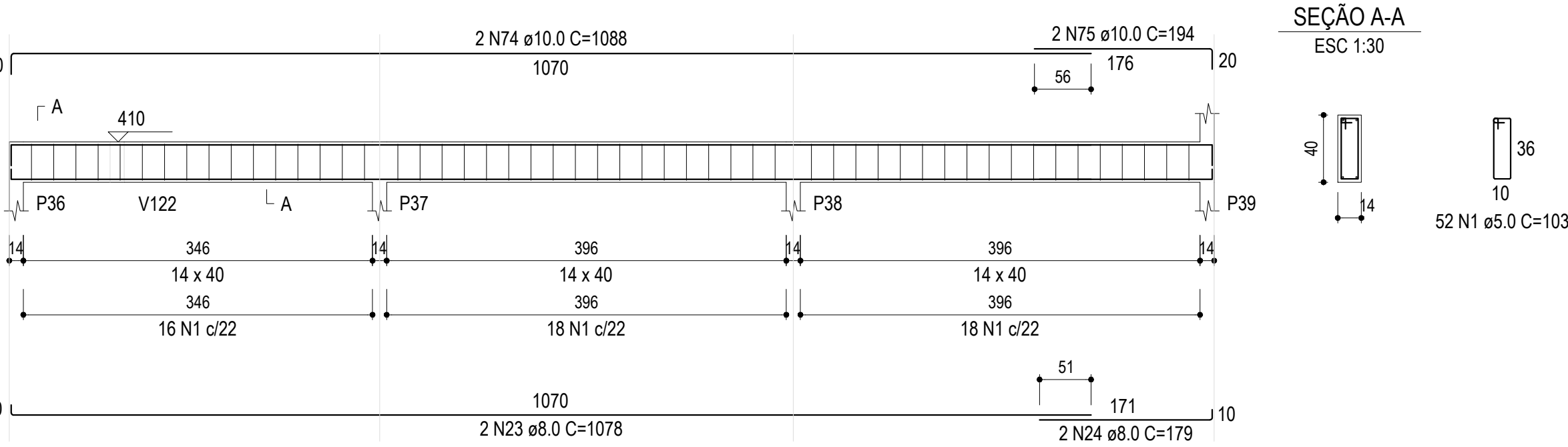
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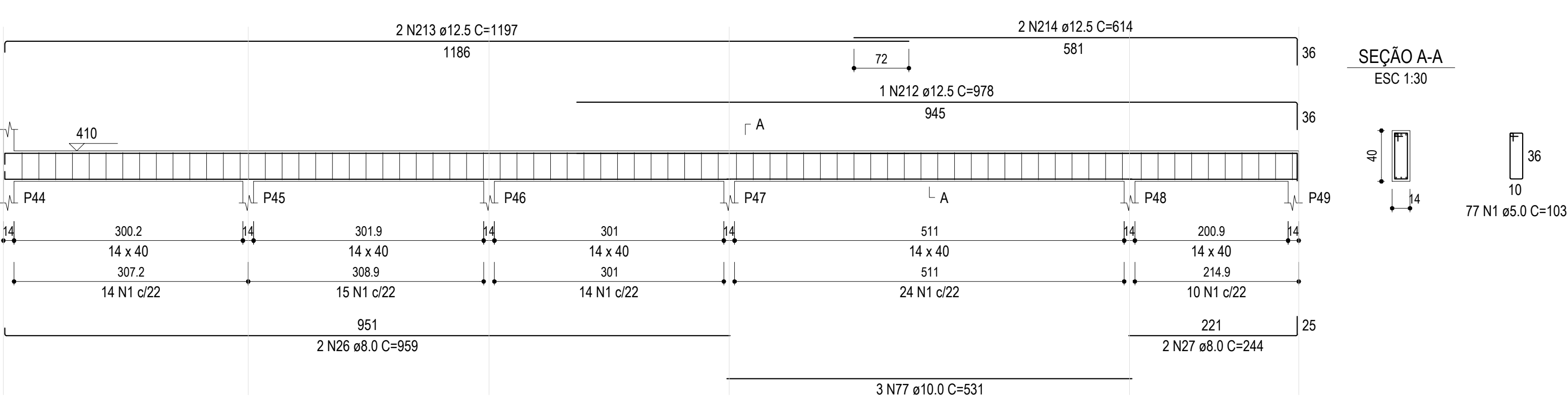
V117 (14 x 40)



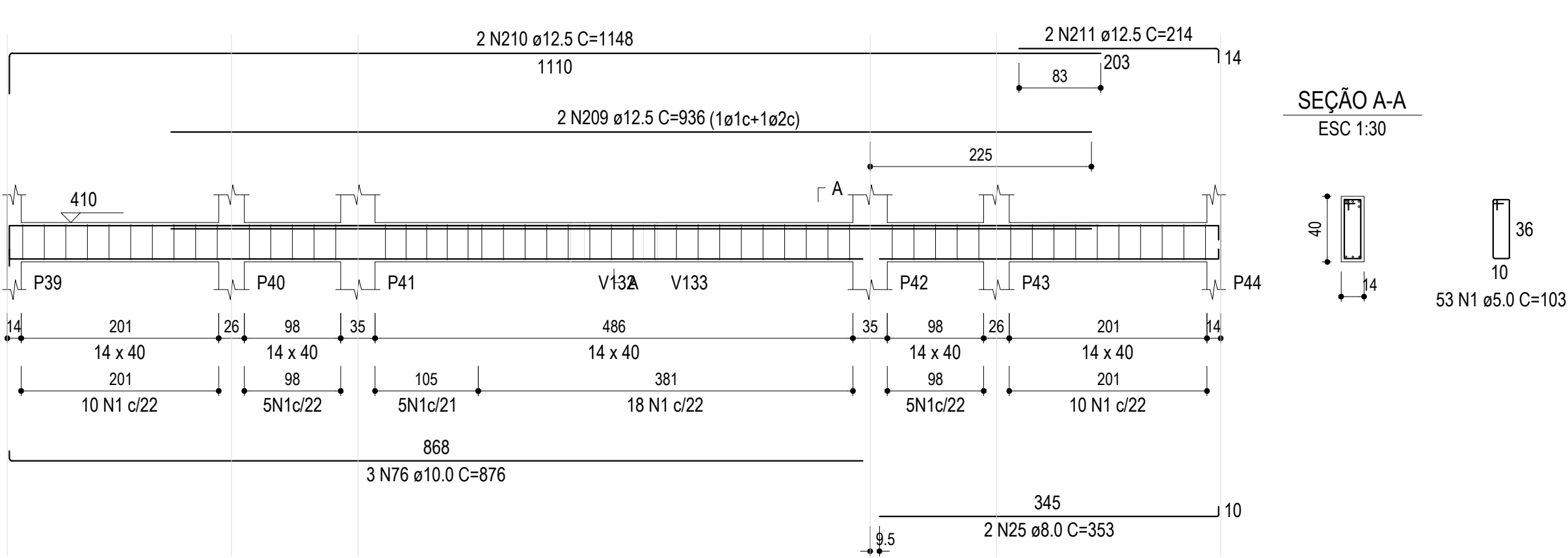
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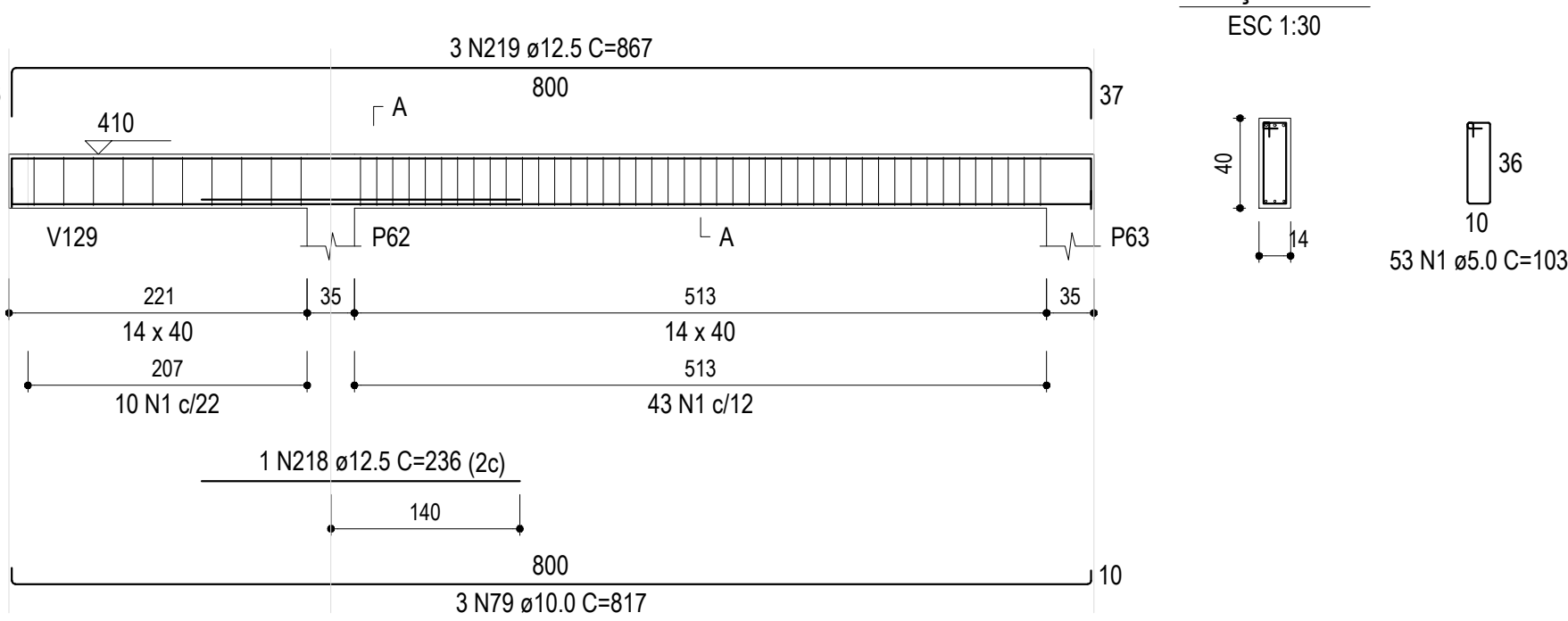
V114 (14 x 40)



V113 (14 x 40)



V116 (14 x 40)



GAMA-Z ENGENHARIA LTDA | CREA-RS 249.562
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PROJETOS INTEGRADOS

NATUREZA DO PROJETO

PROJETO ESTRUTURAL

ENDEREÇO
BAIRRO CHÁCARA IBIRUBÁ RS

CONTEÚDO

DETALHAMENTO VIGAS COBERTURA

PROPRIETÁRIO

**PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara**

**EDMILSON
DIETER:00043470050**

Assinado de forma digital por
EDMILSON DIETER:00043470050
Dados: 2025.02.20 12:02:09
-03'00'

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

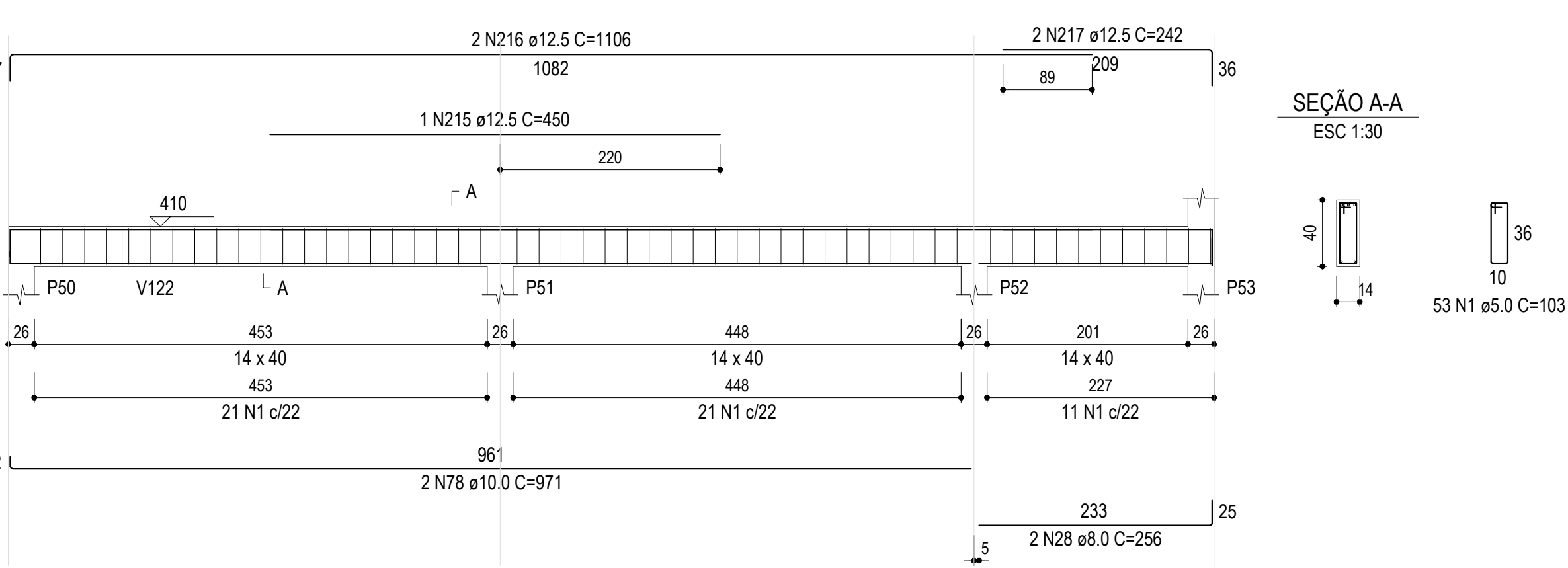
DATA
Outubro/2023

ESCALA
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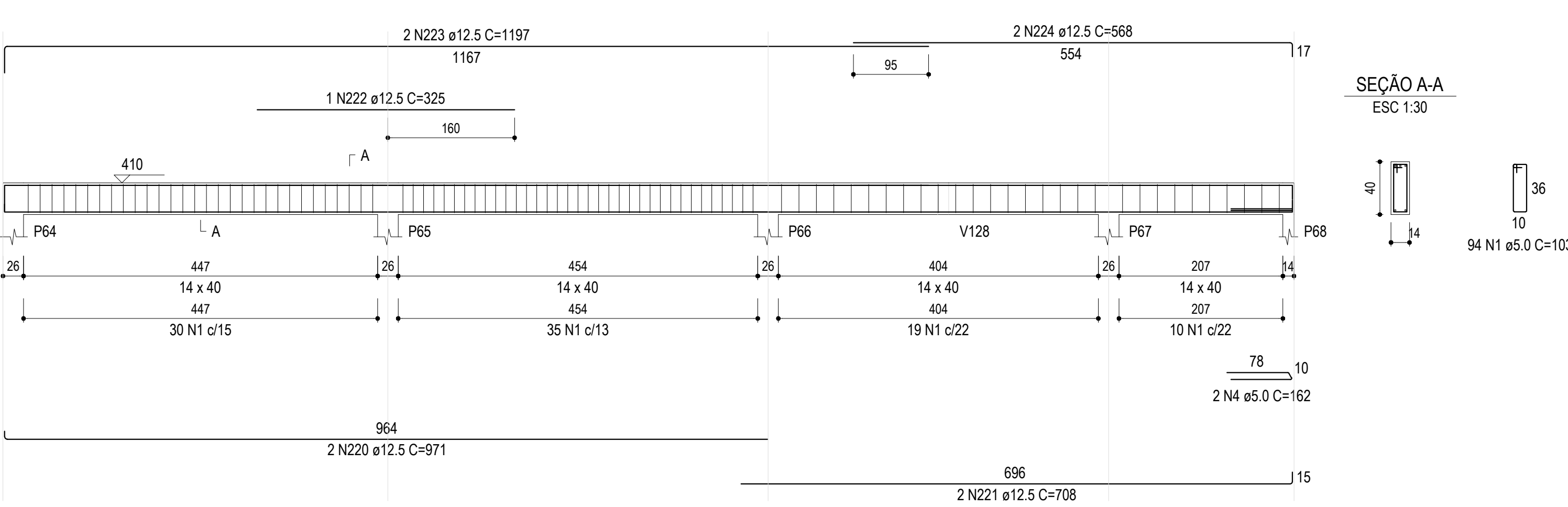
FOLHA

23

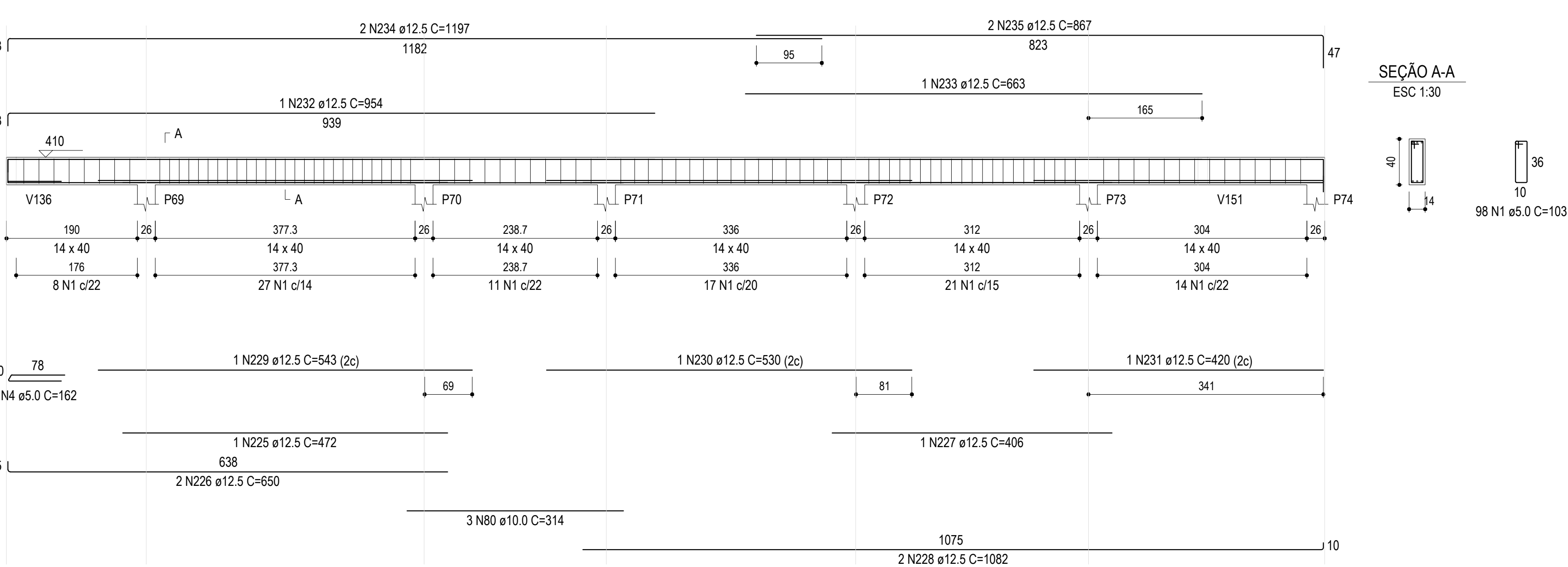
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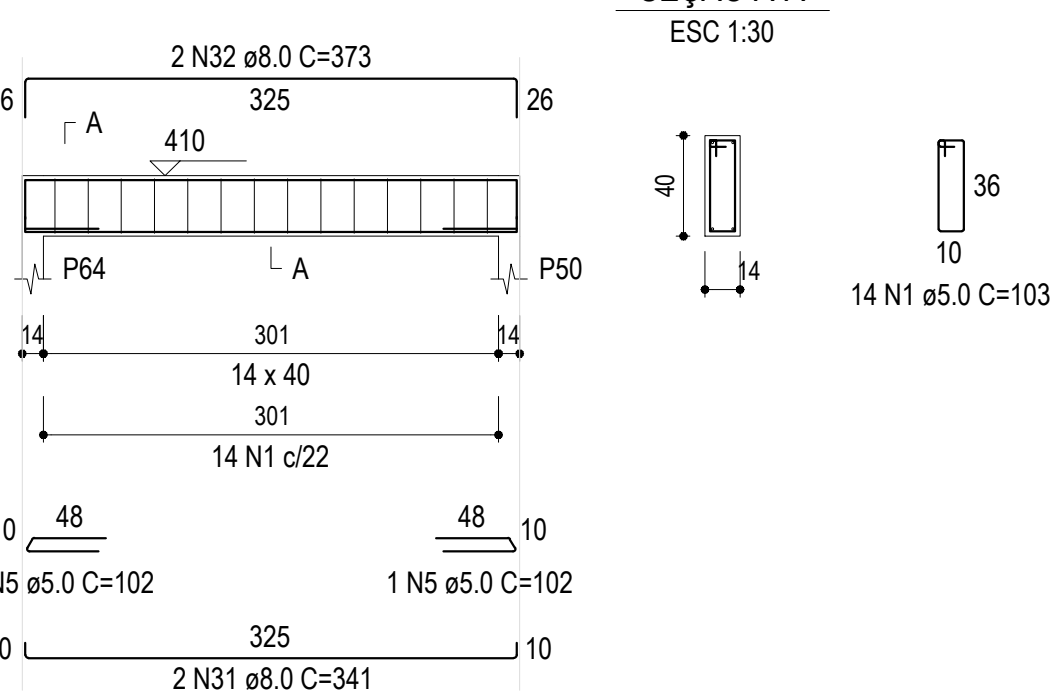
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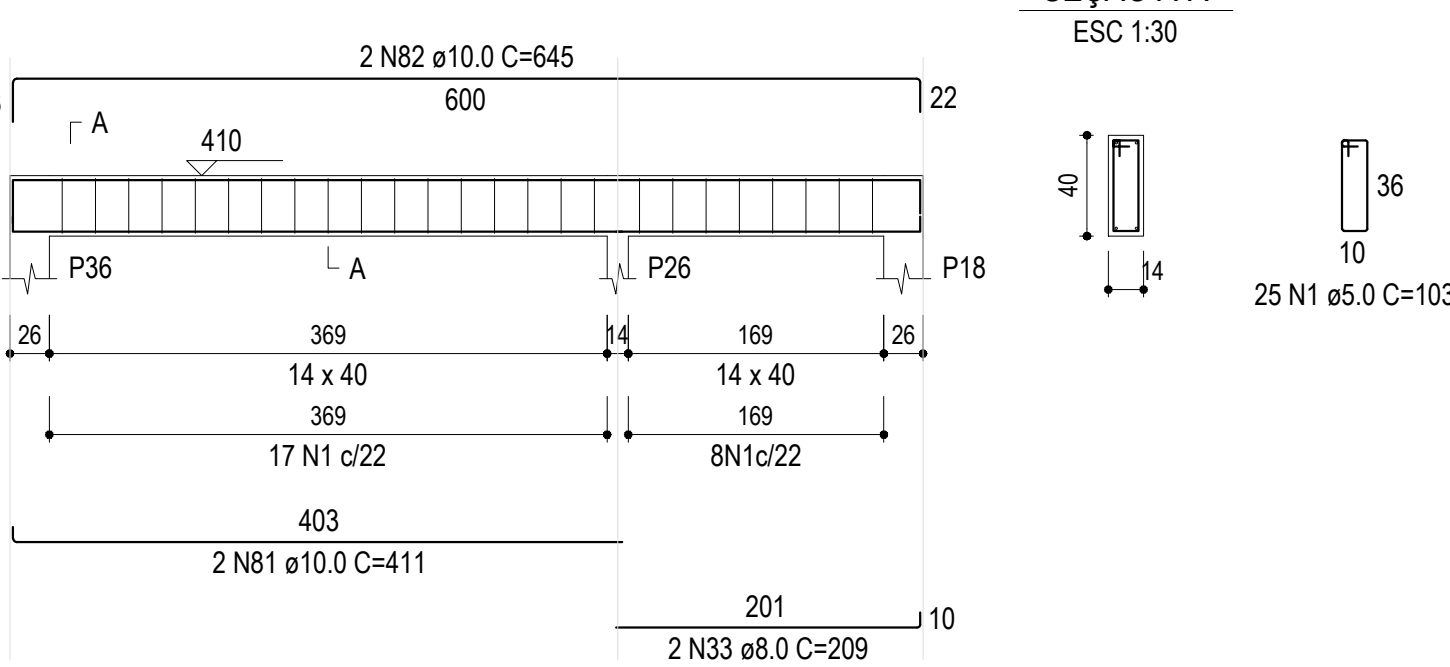
V119 (14 x 40)



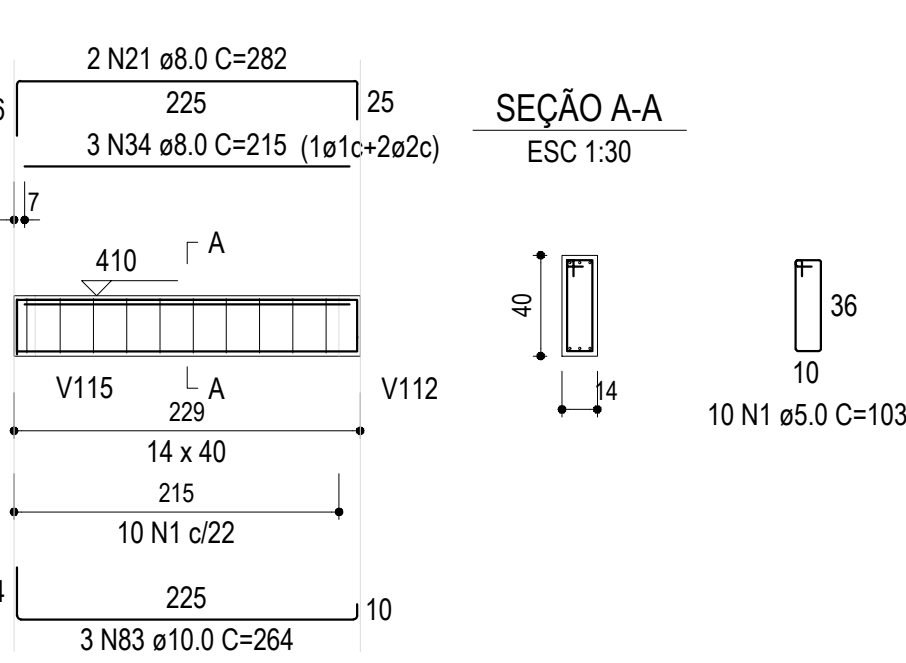
V120 (14 x 40)



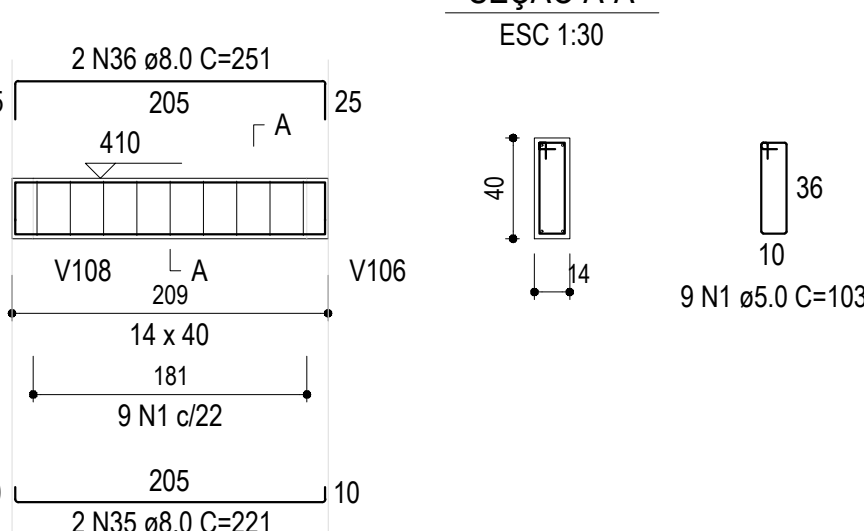
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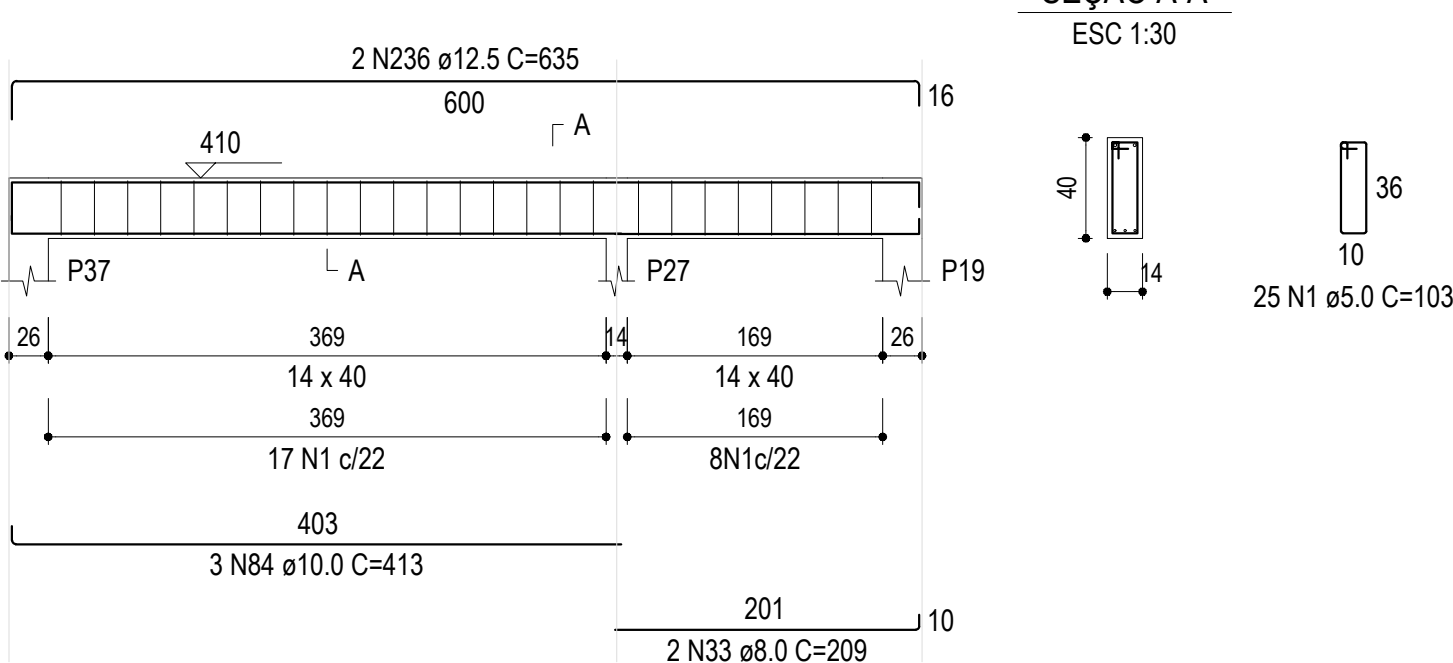
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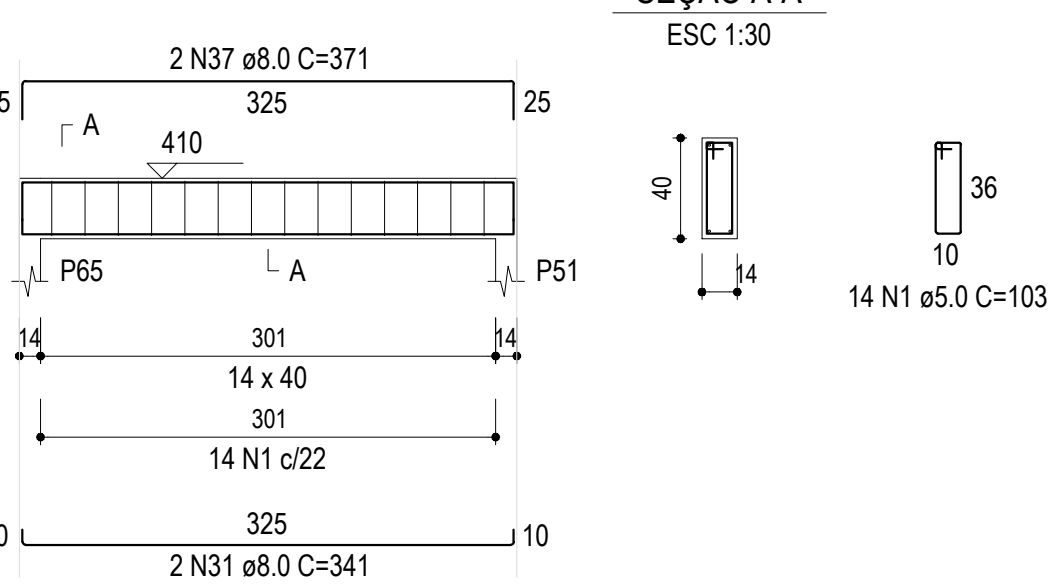
V123 (14 x 40)



V124 (14 x 40)



V125 (14 x 40)



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PREFEITURA MUNICIPAL DE IBIRUBÁ
CAPS - Bairro Chácara

EDMILSON

DIETER:00043470050

RESP. TÉCNICO

Gama-Z Engenharia Ltda - CREA-RS PJ 249.562
Eng. Civil André Schiefelbein - CREA-RS 093.879
Eng. Civil Edmilson Dieter - CREA-RS 248.655

DATA
Outubro/2023

ESCALA
INDICADA

FOLHA

24