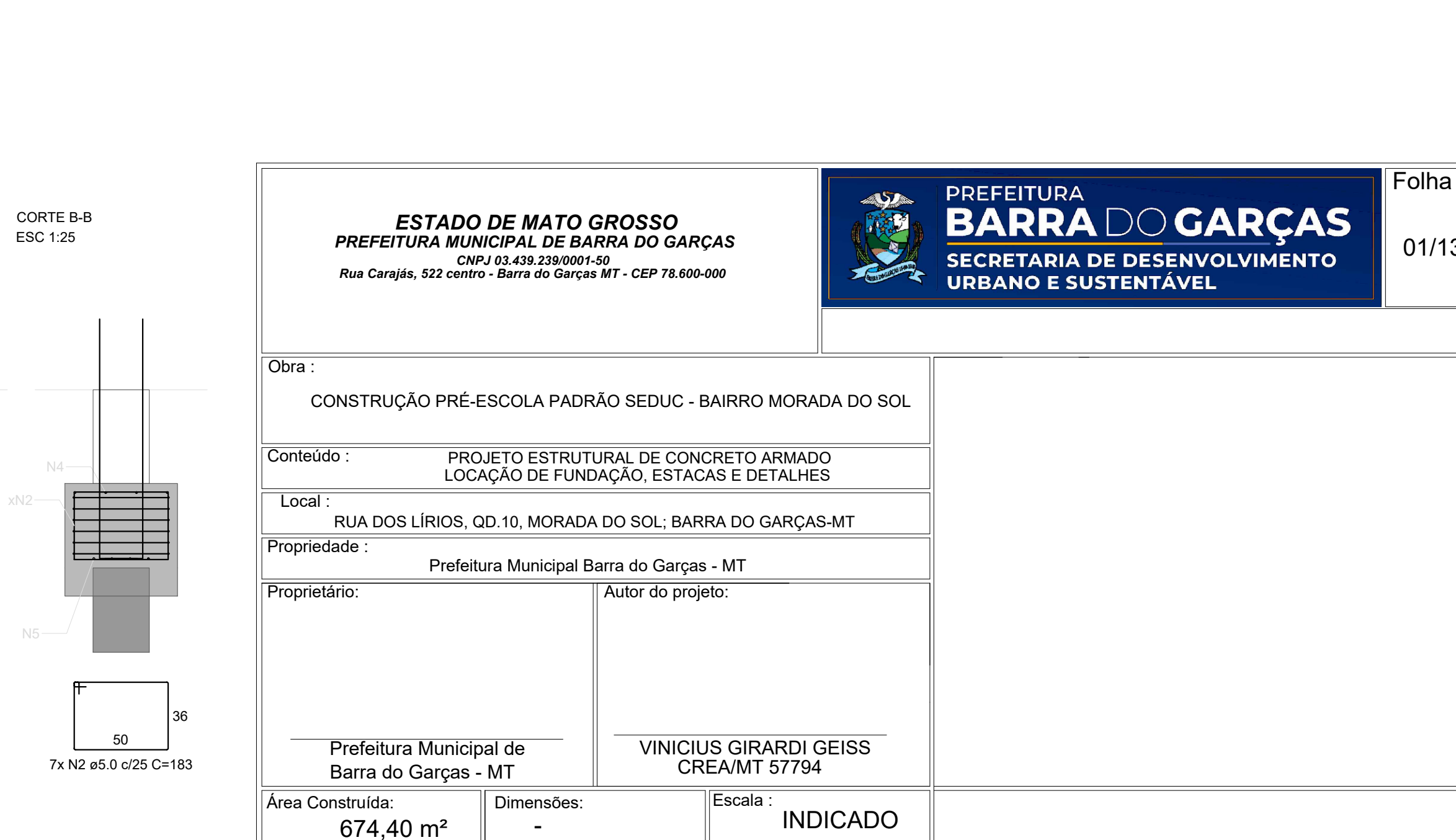
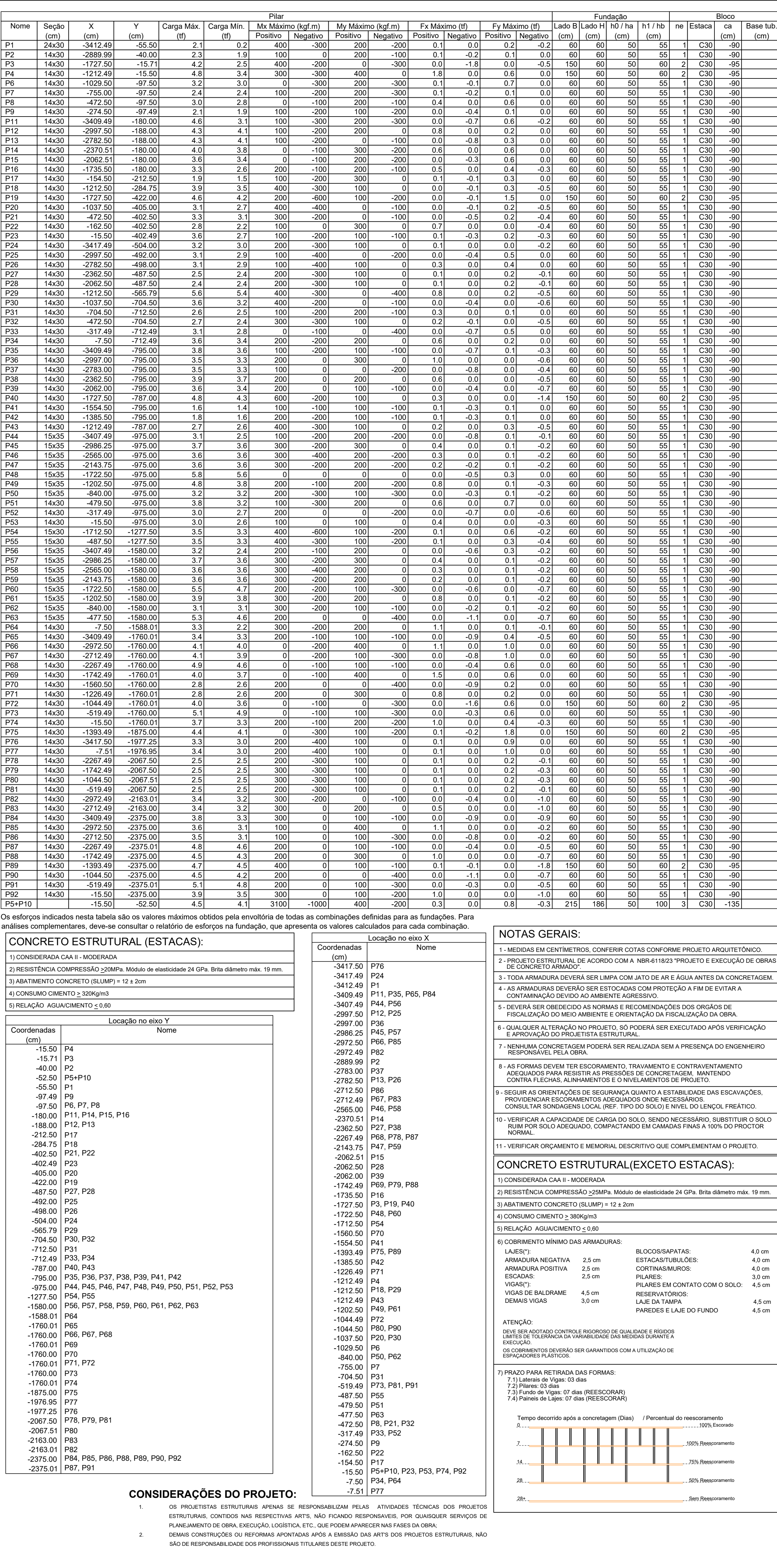
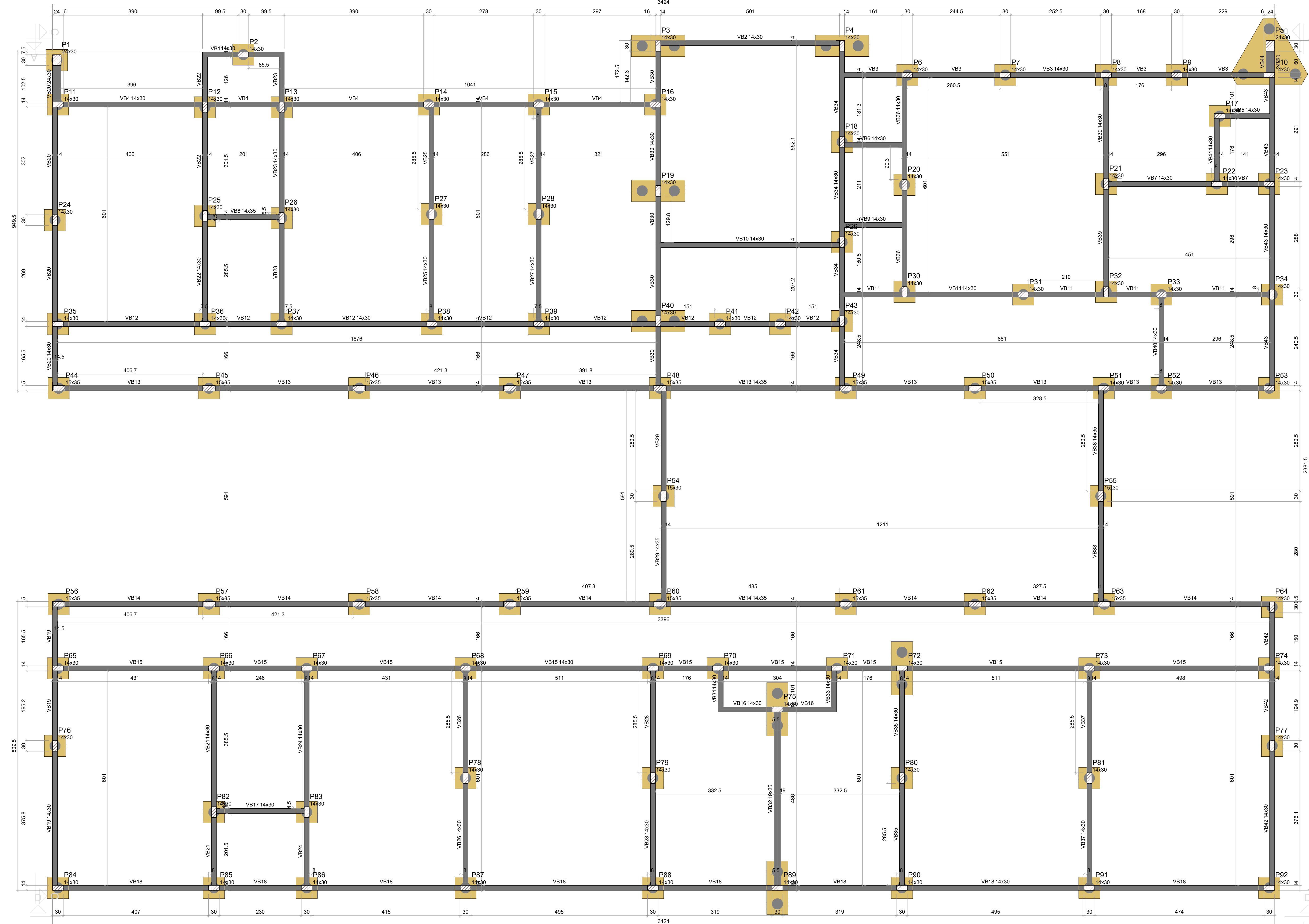


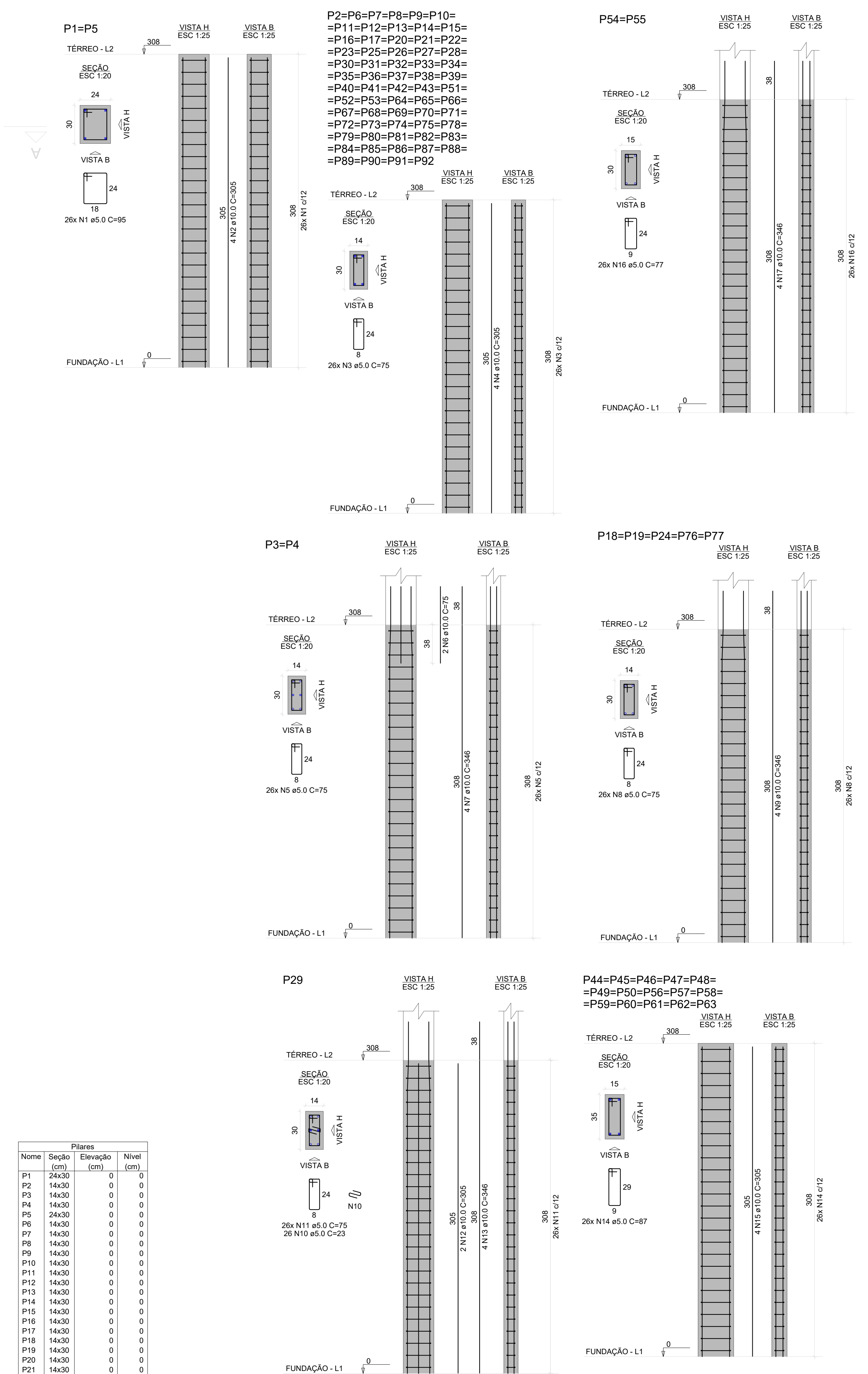
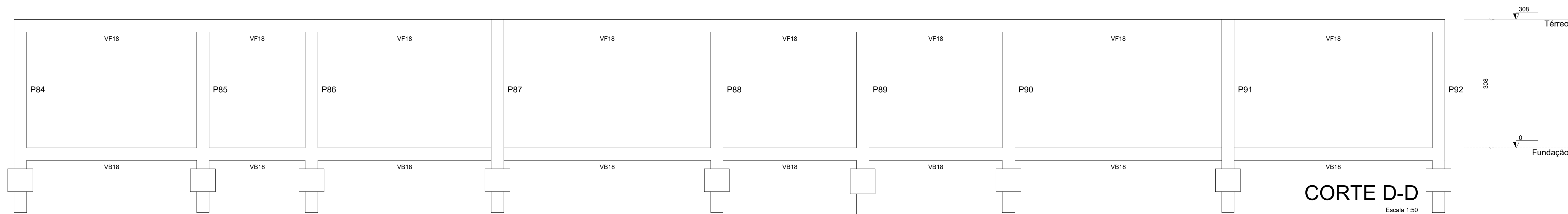


Características dos materiais	
fck (kgf/cm ²)	Ecs (kgf/cm ²)
250	241500

Dimensão máxima do agregado = 19 mm

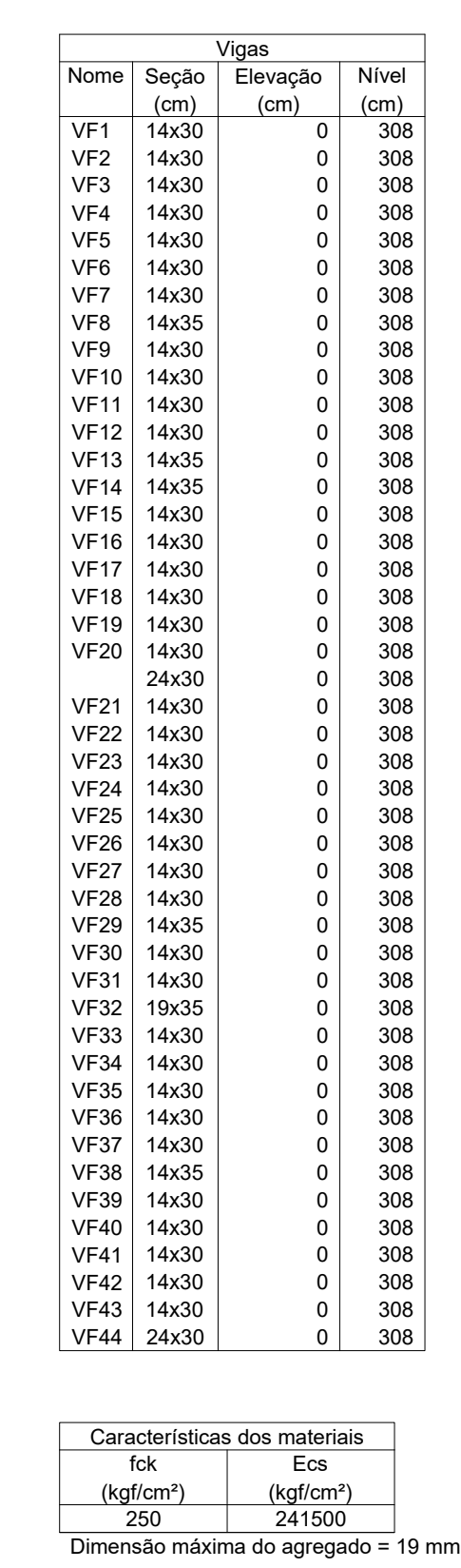


FORMA DO PAVIMENTO FUNDAÇÃO



Nome	Piares			Vagas			
	Seção	Elevação (cm)	Nível (cm)	Nome	Seção	Elevação (cm)	Nível (cm)
P1	2430	0	0				
P2	1430	0	0				
P3	1430	0	0				
P4	1430	0	0				
P5	2830	0	0				
P6	1430	0	0				
P7	1430	0	0				
P8	1430	0	0				
P9	1430	0	0				
P10	1430	0	0				
P11	1430	0	0				
P12	1430	0	0				
P13	1430	0	0				
P14	1430	0	0				
P15	1430	0	0				
P16	1430	0	0				
P17	1430	0	0				
P18	1430	0	0				
P19	1430	0	0				
P20	1430	0	0				
P21	1430	0	0				
P22	1430	0	0				
P23	1430	0	0				
P24	1430	0	0				
P25	1430	0	0				
P26	1430	0	0				
P27	1430	0	0				
P28	1430	0	0				
P29	1430	0	0				
P30	1430	0	0				
P31	1430	0	0				
P32	1430	0	0				
P33	1430	0	0				
P34	1430	0	0				
P35	1430	0	0				
P36	1430	0	0				
P37	1430	0	0				
P38	1430	0	0				
P39	1430	0	0				
P40	1430	0	0				
P41	1430	0	0				
P42	1430	0	0				
P43	1430	0	0				
P44	1535	0	0				
P45	1535	0	0				
P46	1535	0	0				
P47	1535	0	0				
P48	1535	0	0				
P49	1535	0	0				
P50	1535	0	0				
P51	1430	0	0	VB1	1430	0	0
P52	1430	0	0	VB2	1430	0	0
P53	1430	0	0	VB3	1430	0	0
P54	1430	0	0	VB4	1430	0	0
P55	1430	0	0	VB5	1430	0	0
P56	1535	0	0	VB6	1430	0	0
P57	1535	0	0	VB7	1430	0	0
P58	1535	0	0	VB8	1430	0	0
P59	1535	0	0	VB12	1430	0	0
P60	1535	0	0	VB13	1430	0	0
P61	1535	0	0	VB14	1435	0	0
P62	1535	0	0	VB15	1430	0	0
P63	1535	0	0	VB16	1430	0	0
P64	1430	0	0	VB17	1430	0	0
P65	1430	0	0	VB18	1430	0	0
P66	1430	0	0	VB19	1430	0	0
P67	1430	0	0	VB20	1430	0	0
P68	1430	0	0	VB21	1430	0	0
P69	1430	0	0	VB22	1430	0	0
P70	1430	0	0	VB23	1430	0	0
P71	1430	0	0	VB24	1430	0	0
P72	1430	0	0	VB24	1430	0	0
P73	1430	0	0	VB25	1430	0	0
P74	1430	0	0	VB26	1430	0	0
P75	1430	0	0	VB27	1430	0	0
P76	1430	0	0	VB28	1430	0	0
P77	1430	0	0	VB29	1435	0	0
P78	1430	0	0	VB30	1430	0	0
P79	1430	0	0	VB31	1430	0	0
P80	1430	0	0	VB32	1430	0	0
P81	1430	0	0	VB33	1430	0	0
P82	1430	0	0	VB34	1430	0	0
P83	1430	0	0	VB35	1430	0	0
P84	1430	0	0	VB36	1430	0	0
P85	1430	0	0	VB37	1430	0	0
P86	1430	0	0	VB38	1430	0	0
P87	1430	0	0	VB39	1430	0	0
P88	1430	0	0	VB40	1435	0	0
P89	1430	0	0	VB41	1430	0	0
P90	1430	0	0	VB42	1430	0	0
P91	1430	0	0	VB43	1430	0	0
P92	1430	0	0	VB44	2430	0	0

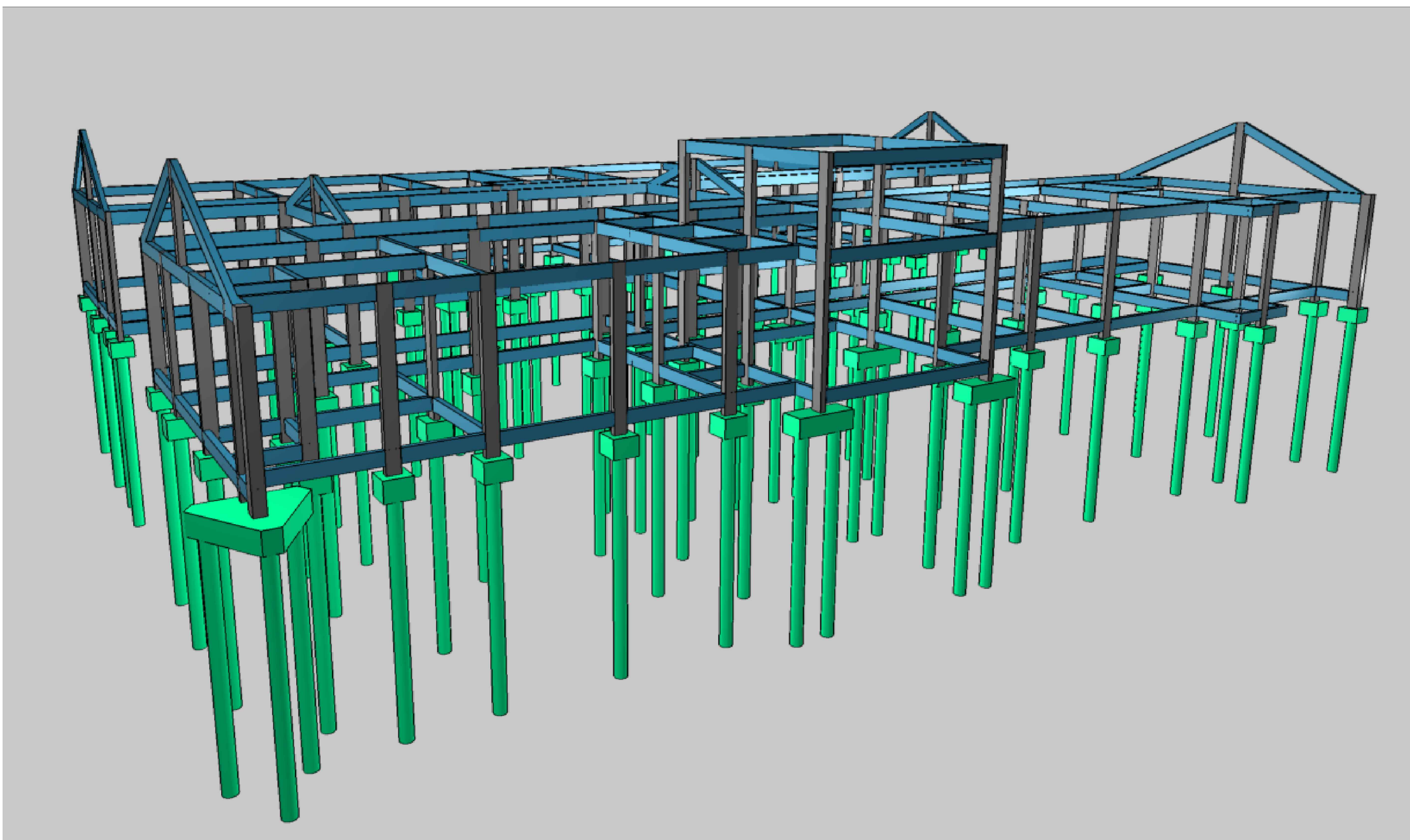
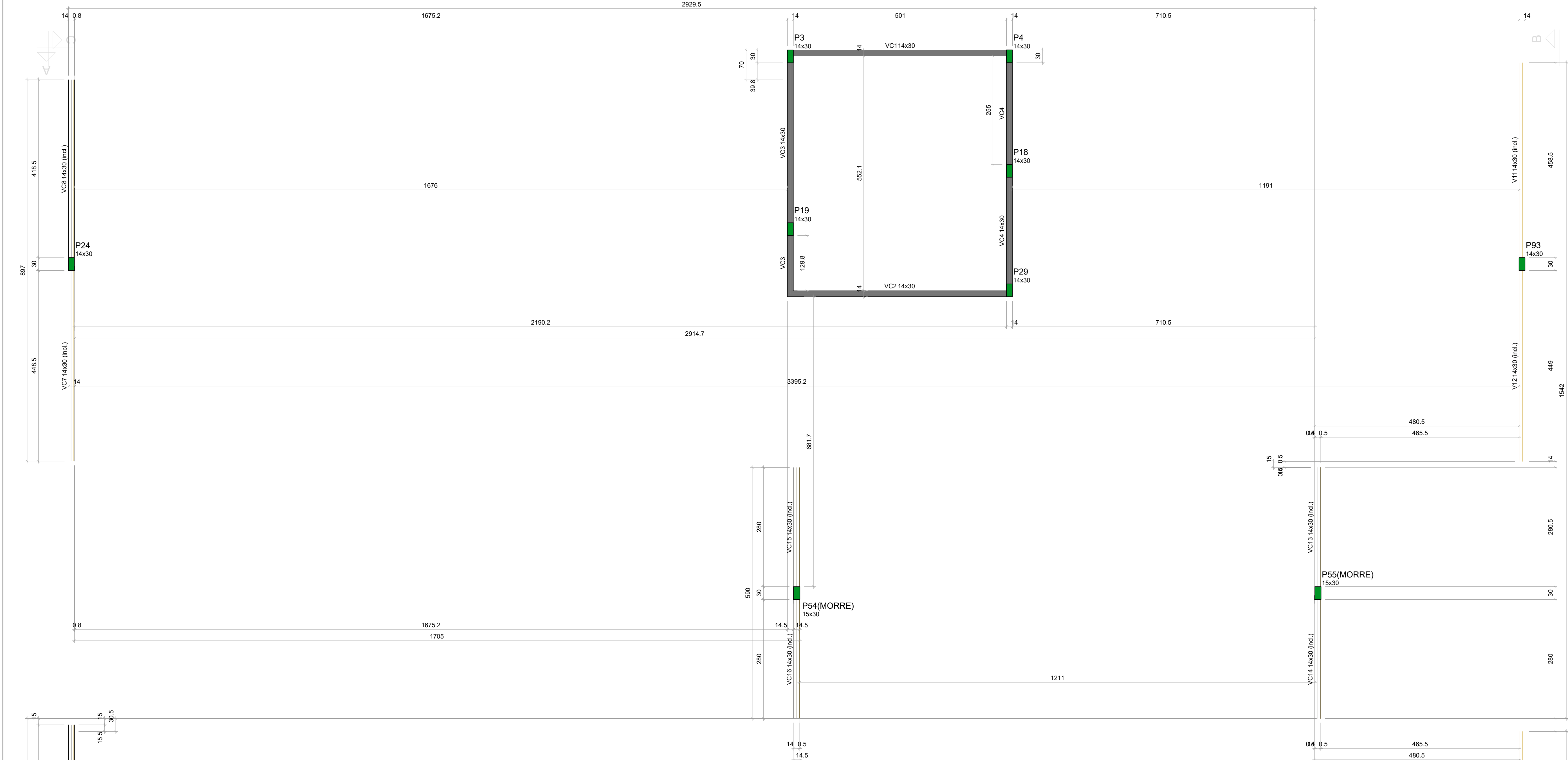
 ESTADO DE MATO GROSSO PREFEITURA MUNICIPAL DE BARRA DO GARÇAS CNPJ 03.429.239/0001-50 Rua Canaã, 521 centro - Barra do Garças MT - CEP 78.600-000	 BARRA DO GARÇAS SECRETARIA DE DESENVOLVIMENTO URBANO E SUSTENTÁVEL	Folha : _____
		03/13



Name	Places		Nivel (cm)
	Start	End-point	
P1	2430	0	308
P2	1430	0	308
P3	1430	0	308
P4	1430	0	308
P5	1430	0	308
P6	1430	0	308
P7	1430	0	308
P8	1430	0	308
P9	1430	0	308
P10	1430	0	308
P11	1430	0	308
P12	1430	0	308
P13	1430	0	308
P14	1430	0	308
P15	1430	0	308
P16	1430	0	308
P17	1430	0	308
P18	1430	0	308
P19	1430	0	308
P20	1430	0	308
P21	1430	0	308
P22	1430	0	308
P23	1430	0	308
P24	1430	0	308
P25	1430	0	308
P26	1430	0	308
P27	1430	0	308
P28	1430	0	308
P29	1430	0	308
P30	1430	0	308
P31	1430	0	308
P32	1430	0	308
P33	1430	0	308
P34	1430	0	308
P35	1430	0	308
P36	1430	0	308
P37	1430	0	308
P38	1430	0	308
P39	1430	0	308
P40	1430	0	308
P41	1430	0	308
P42	1430	0	308
P43	1535	0	308
P44	1535	0	308
P45	1535	0	308
P46	1535	0	308
P47	1535	0	308
P48	1535	0	308
P49	1535	0	308
P50	1535	0	308
P51	1535	0	308
P52	1430	0	308
P53	1430	0	308
P54	1530	0	308
P55	1530	0	308
P56	1530	0	308
P57	1535	0	308
P58	1535	0	308
P59	1535	0	308
P60	1535	0	308
P61	1535	0	308
P62	1535	0	308
P63	1535	0	308
P64	1430	0	308
P65	1430	0	308
P66	1430	0	308
P67	1430	0	308
P68	1430	0	308
P69	1430	0	308
P70	1430	0	308
P71	1430	0	308
P72	1430	0	308
P73	1430	0	308
P74	1430	0	308
P75	1430	0	308
P76	1430	0	308
P77	1430	0	308
P78	1430	0	308
P79	1430	0	308
P80	1430	0	308
P81	1430	0	308
P82	1430	0	308
P83	1430	0	308
P84	1430	0	308
P85	1430	0	308
P86	1430	0	308
P87	1430	0	308
P88	1430	0	308
P89	1430	0	308
P90	1430	0	308
P91	1430	0	308
P92	1430	0	308

Legenda dos pilares	
	Pilar que morre
	Pilar que passa
	Pilar que nasce

Legenda das vigas e paredes	
	Viga



Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V11	14x30	0 / -205	513 / 308
V12	14x30	0 / -205	513 / 308
VC1	14x30	0	513
VC2	14x30	0	513
VC3	14x30	0	513
VC4	14x30	0	513
VC5	14x30	0 / -205	513 / 308
VC6	14x30	0 / -205	513 / 308
VC7	14x30	0 / -205	513 / 308
VC8	14x30	0 / -205	513 / 308
VC9	14x30	0 / -205	513 / 308
VC10	14x30	0 / -205	513 / 308
VC13	14x30	-105 / -205	408 / 308
VC14	14x30	-105 / -205	408 / 308
VC15	14x30	-105 / -205	408 / 308
VC16	14x30	-105 / -205	408 / 308

Características dos materiais	
kk	Eck
250	241000

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P3	14x30	0	513
P4	14x30	0	513
P18	14x30	0	513
P19	14x30	0	513
P24	14x30	0	513
P29	14x30	0	513
P54	15x30	-105	408
P55	15x30	-105	408
P76	14x30	0	513
P77	14x30	0	513
P93	14x30	0	513

Legenda dos pilares	
	Pilar que mone

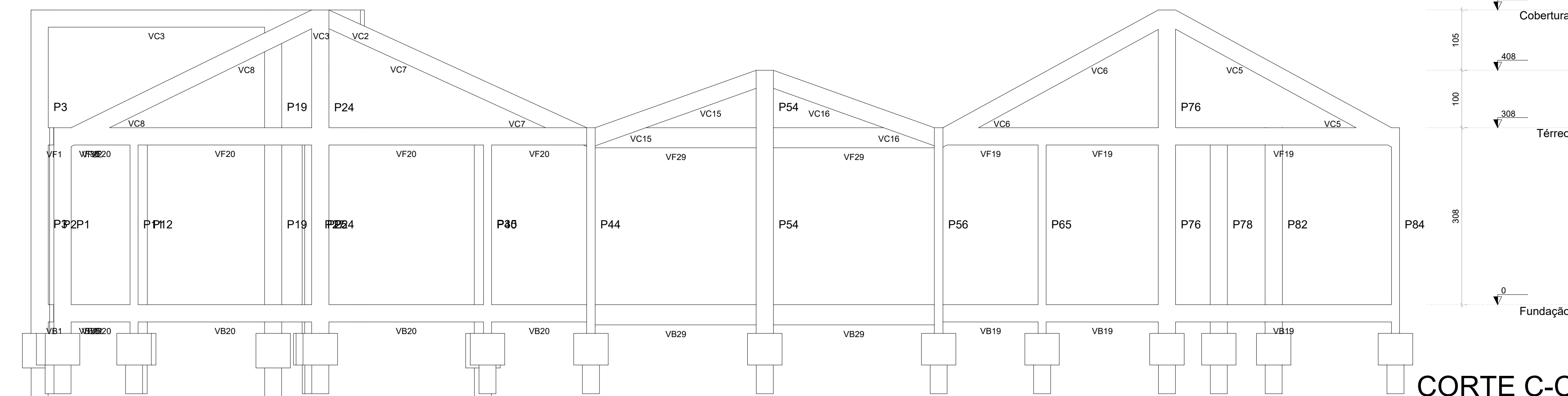
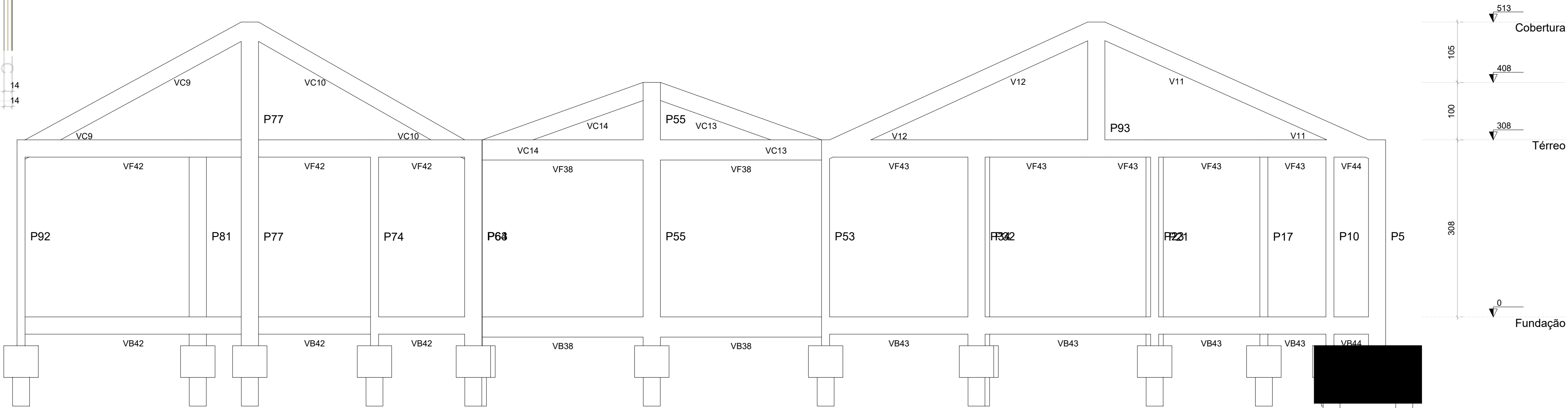
Legenda das vigas e paredes	
	Viga
	Viga inclinada

FORMA DO PAVIMENTO COBERTURA

Escala 1:50

CORTE B-B

Escala 1:50

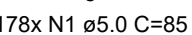
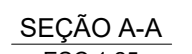


CORTE C-C

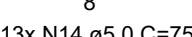
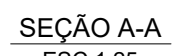
Escala 1:50

ESTADO DE MATO GROSSO PREFEITURA MUNICIPAL DE BARRA DO GARÇAS CNPJ 03.432.239/0001-00 Rua Carajás, 522 centro - Barra do Garças MT - CEP 78.600-000		PREFEITURA BARRA DO GARÇAS SECRETARIA DE DESENVOLVIMENTO URBANO E SUSTENTÁVEL		Folha : 05/13
Obra : CONSTRUÇÃO PRÉ-ESCOLA PADRÃO SEDUC - BAIRRO MORADA DO SOL				
Conteúdo : PROJETO ESTRUTURAL DE CONCRETO ARMADO PLANTA DE FORMA E DETALHES				
Local : RUA DOS LÍRIOS, QD.10, MORADA DO SOL, BARRA DO GARÇAS-MT				
Propriedade : Prefeitura Municipal Barra do Garças - MT				
Proprietário: Prefeitura Municipal de Barra do Garças - MT		Autor do projeto: VINICIUS GIRARDI GEISS CREA/MT 57794		
Área Construída: 674,40 m²	Dimensões:	Escala : INDICADO		
Arquivo : CAD	Data : JUN/2026	Projetista :		

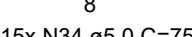
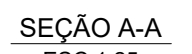
ESC 1:50



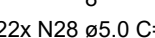
ESC 1:50



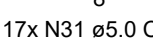
ESC 1:50



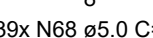
ESC 1:50



ESC 1:50



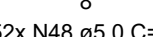
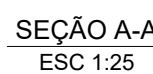
ESC 1:50



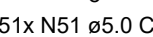
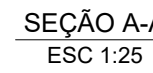
VDZ
ESC 1:50



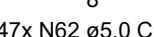
ESC 1:50



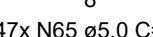
ESC 1:50



ESC 1:50

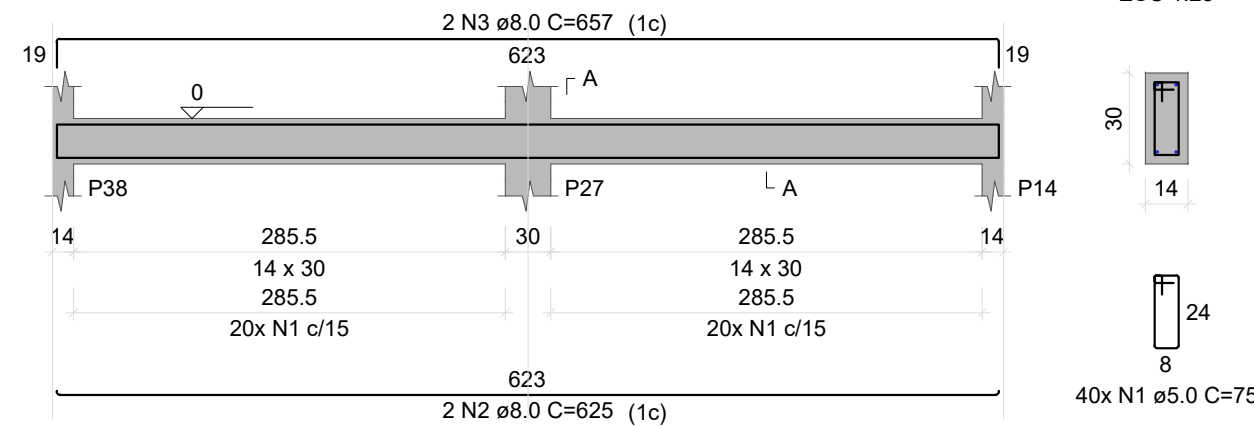


ESC 1:50

Folha :

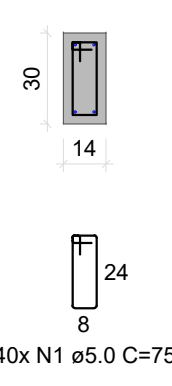
VB25

ESC 1:50



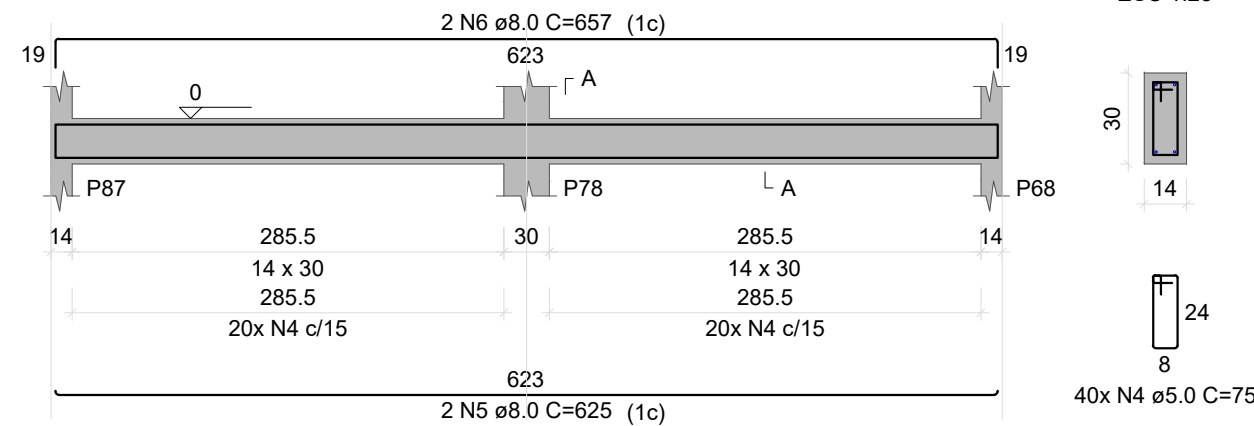
SEÇÃO A-A

ESC 1:25



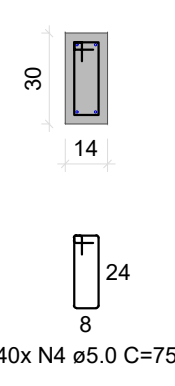
VB26

ESC 1:50



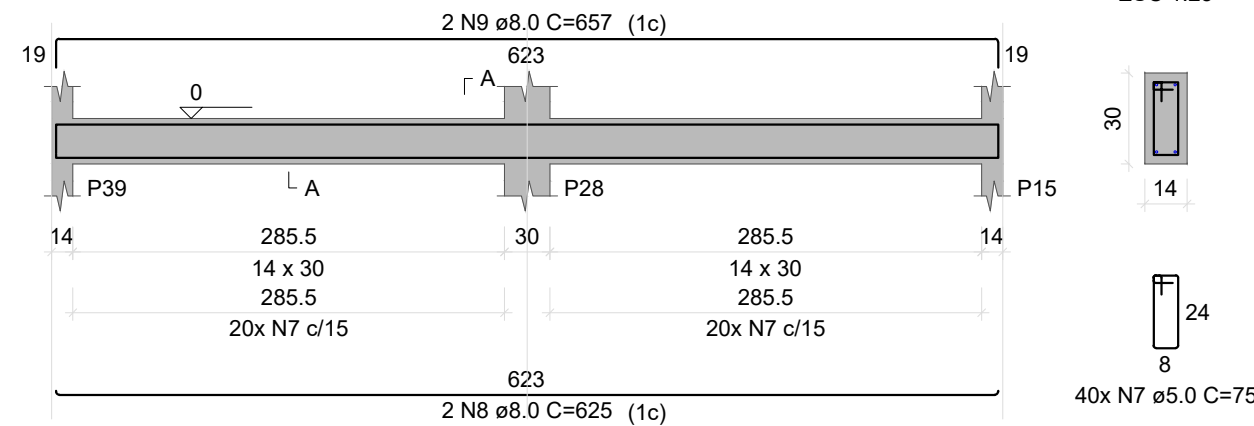
SEÇÃO A-A

ESC 1:25



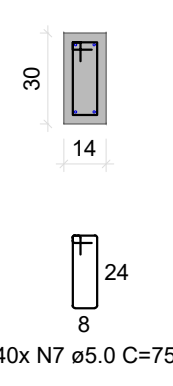
VB27

ESC 1:50



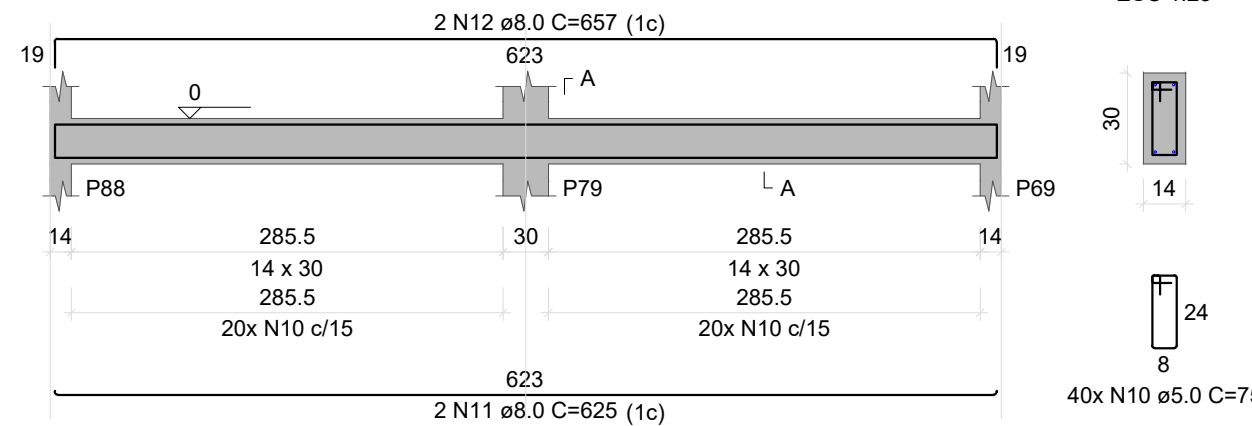
SEÇÃO A-A

ESC 1:25



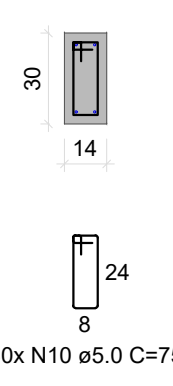
VB28

ESC 1:50



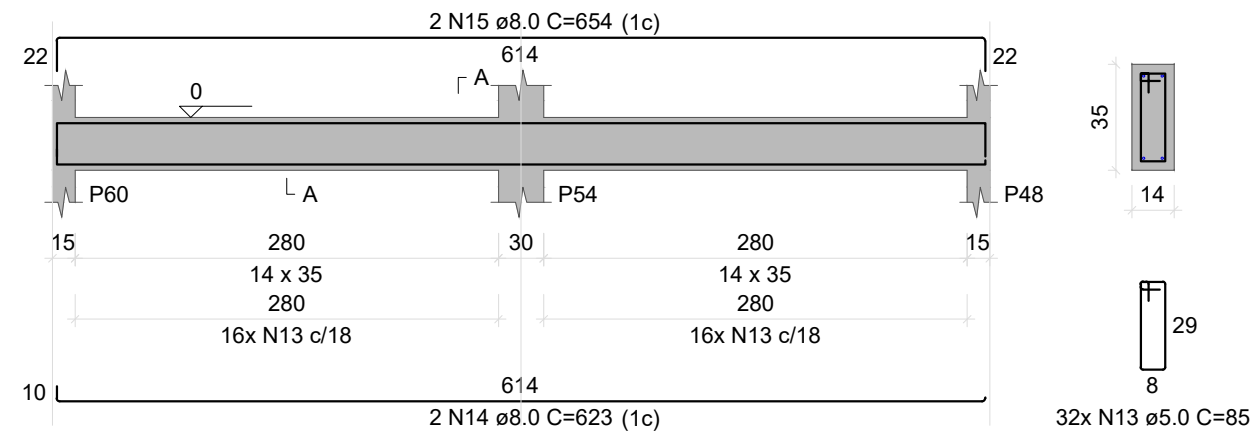
SEÇÃO A-A

ESC 1:25



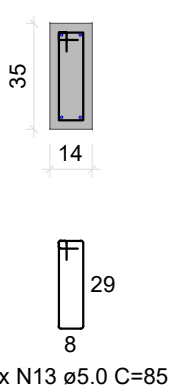
VB29

ESC 1:50



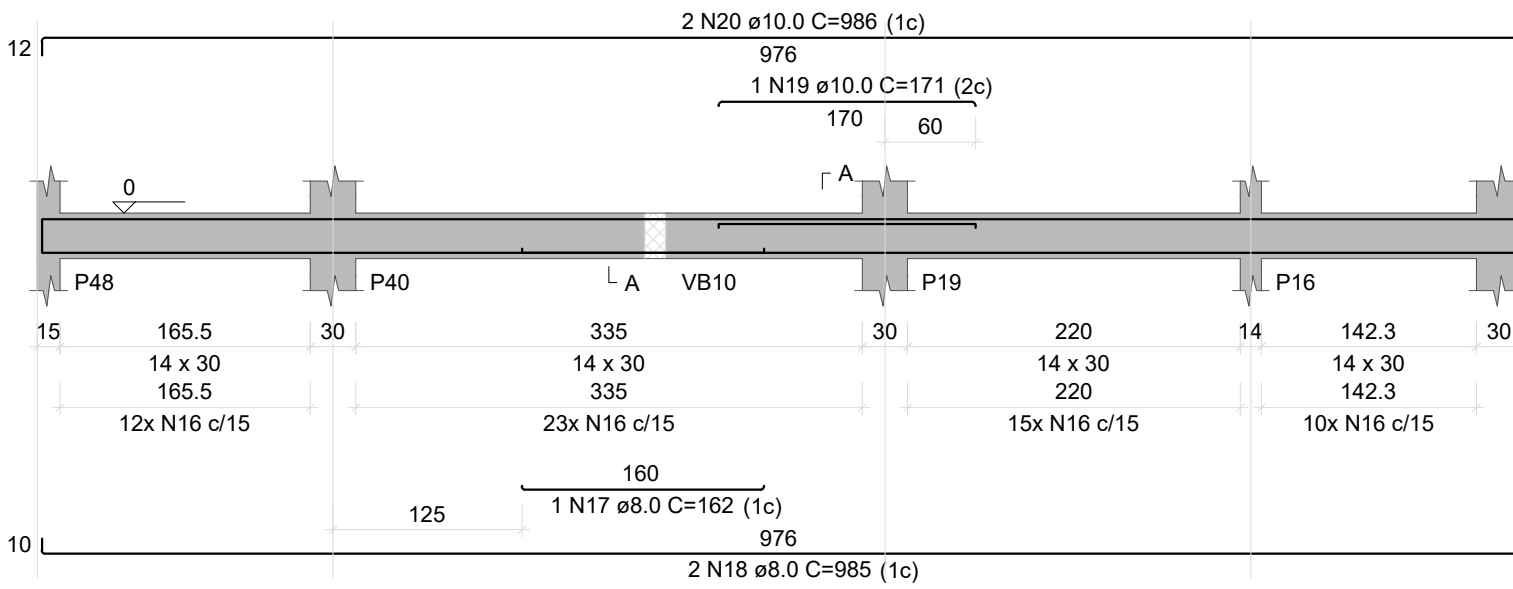
SEÇÃO A-A

ESC 1:25



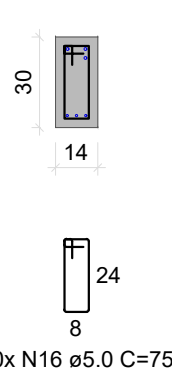
VB30

ESC 1:50



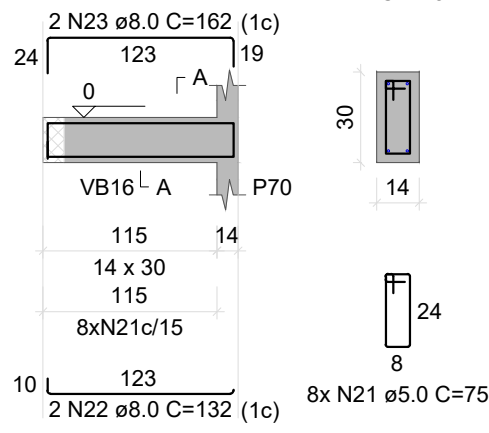
SEÇÃO A-A

ESC 1:25



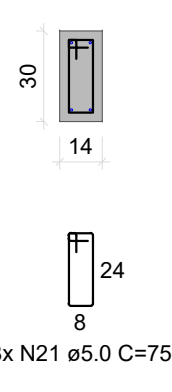
VB31

ESC 1:50



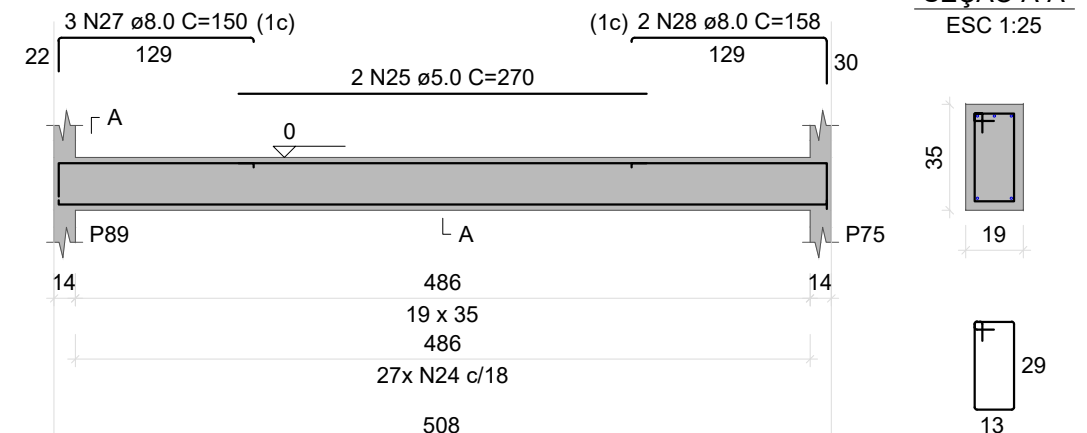
SEÇÃO A-A

ESC 1:25



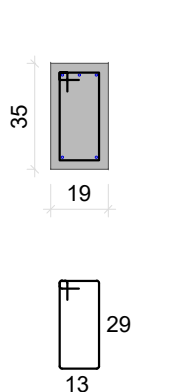
VB32

ESC 1:50



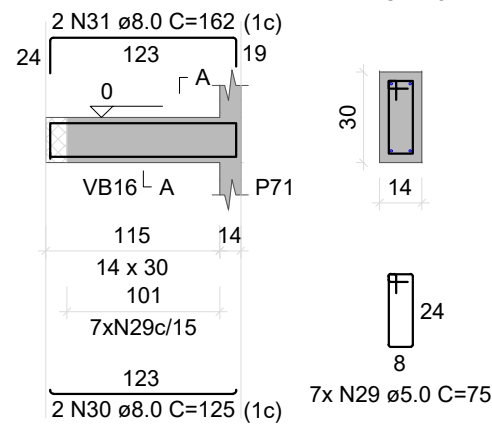
SEÇÃO A-A

ESC 1:25



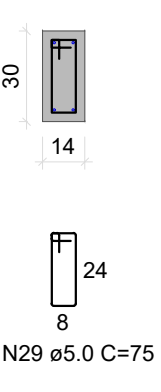
VB33

ESC 1:50



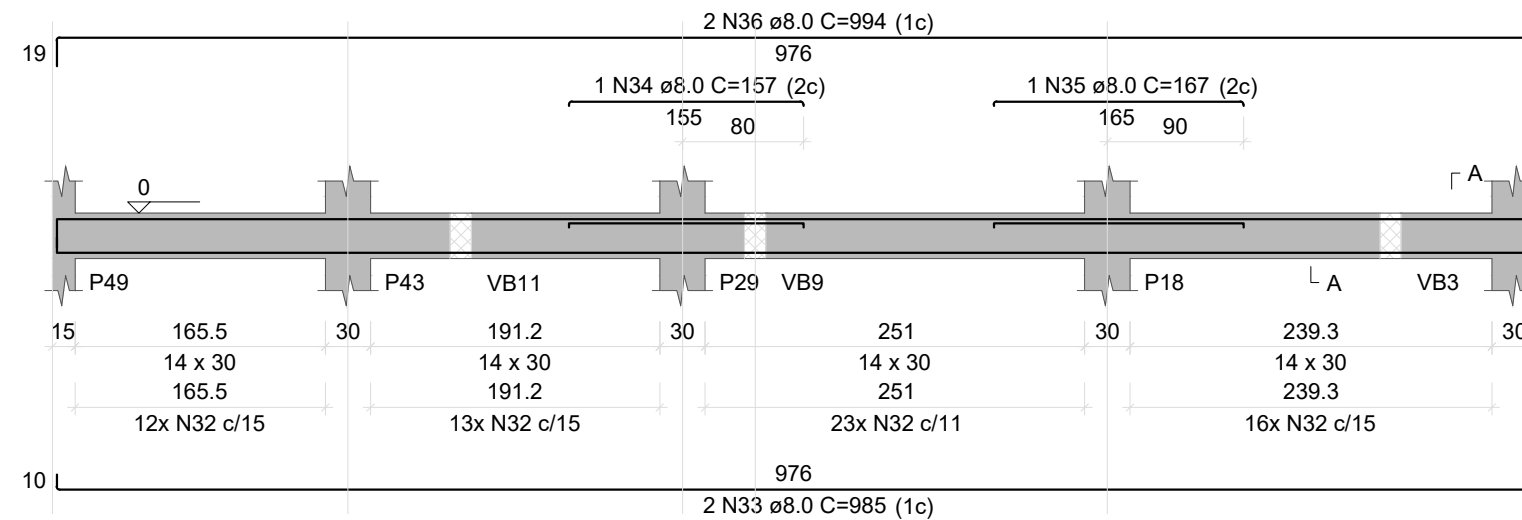
SEÇÃO A-A

ESC 1:25



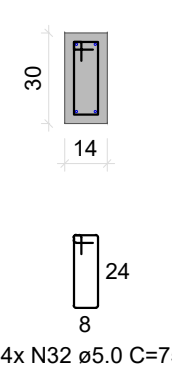
VB34

ESC 1:50



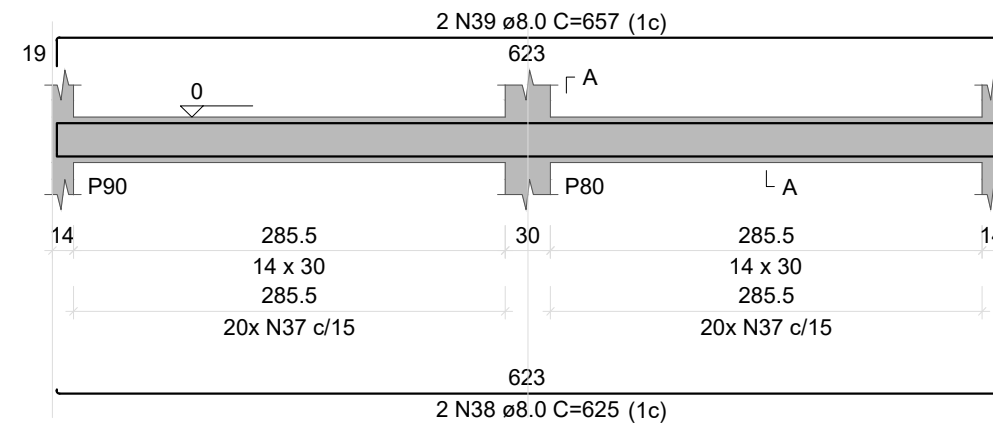
SEÇÃO A-A

ESC 1:25



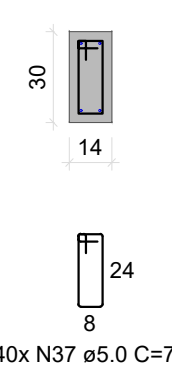
VB35

ESC 1:50



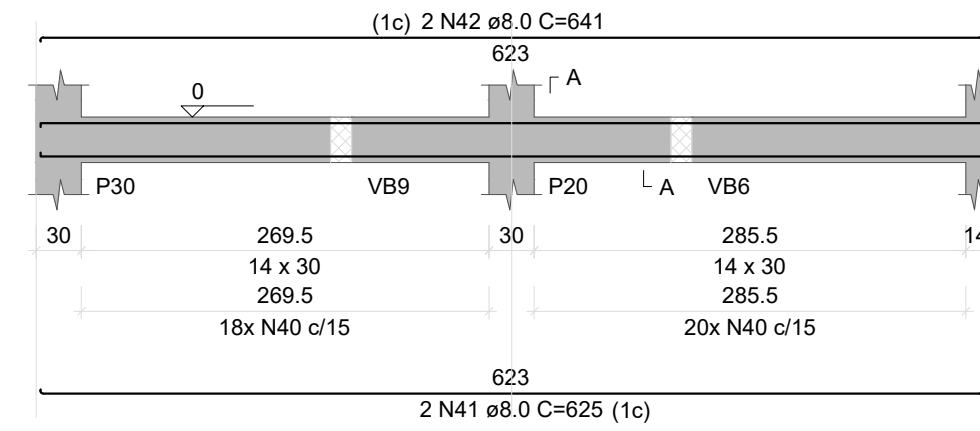
SEÇÃO A-A

ESC 1:25



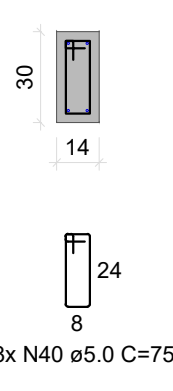
VB36

ESC 1:50



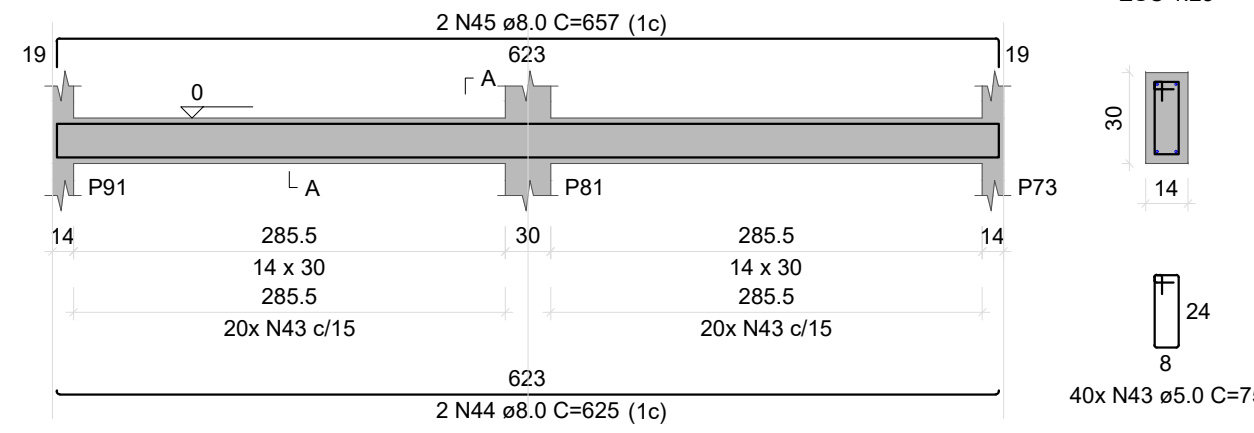
SEÇÃO A-A

ESC 1:25



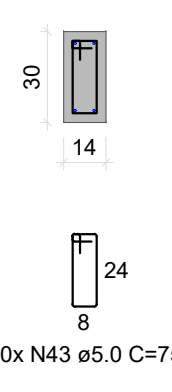
VB37

ESC 1:50



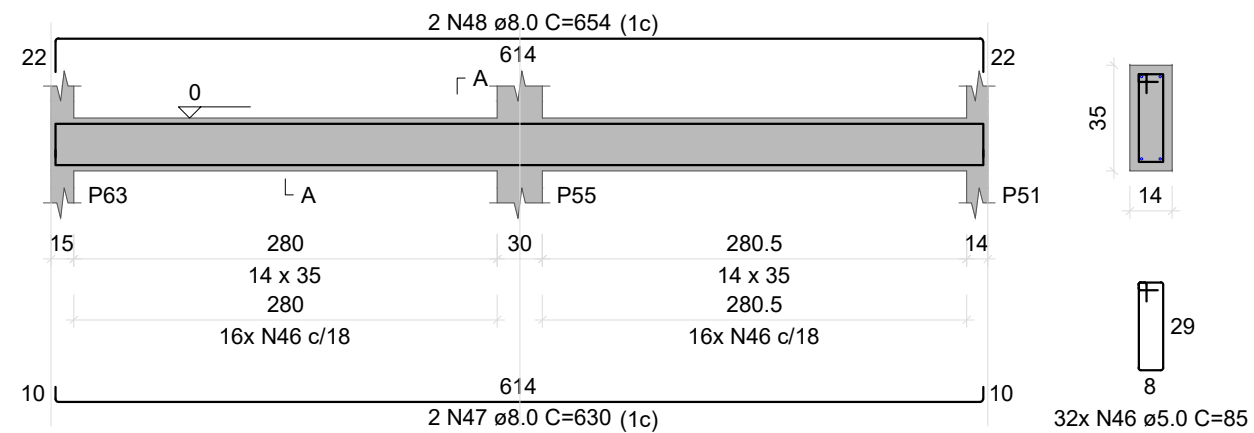
SEÇÃO A-A

ESC 1:25



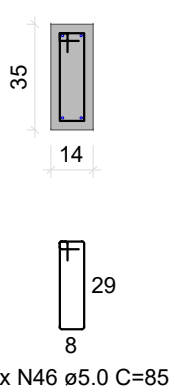
VB38

ESC 1:50



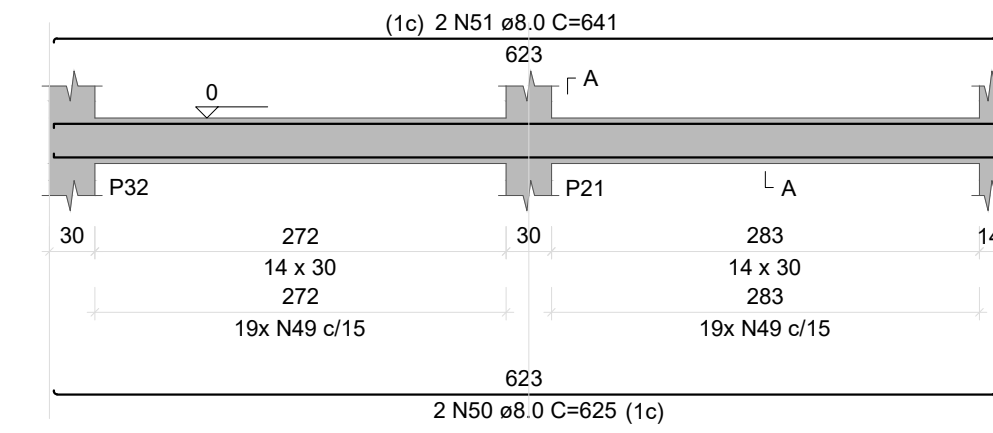
SEÇÃO A-A

ESC 1:25



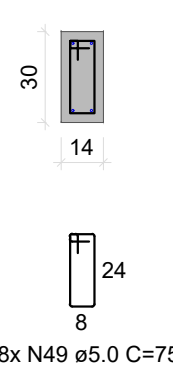
VB39

ESC 1:50



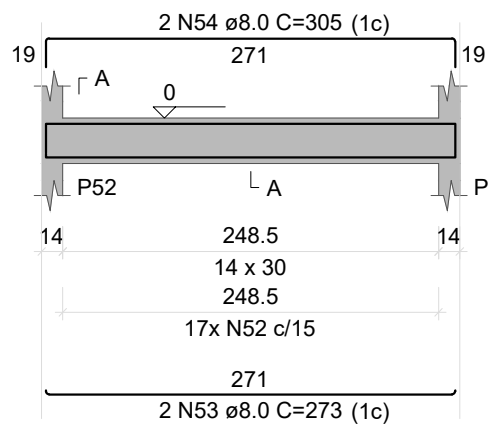
SEÇÃO A-A

ESC 1:25



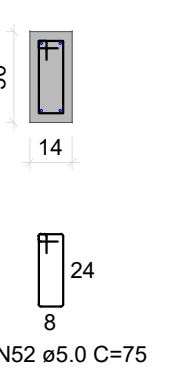
VB40

ESC 1:50



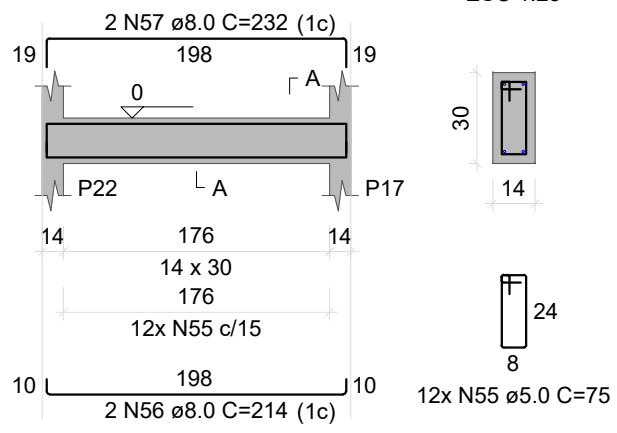
SEÇÃO A-A

ESC 1:25



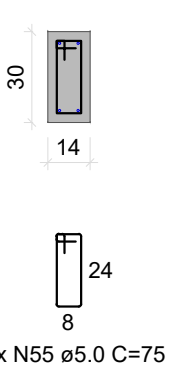
VB41

ESC 1:50



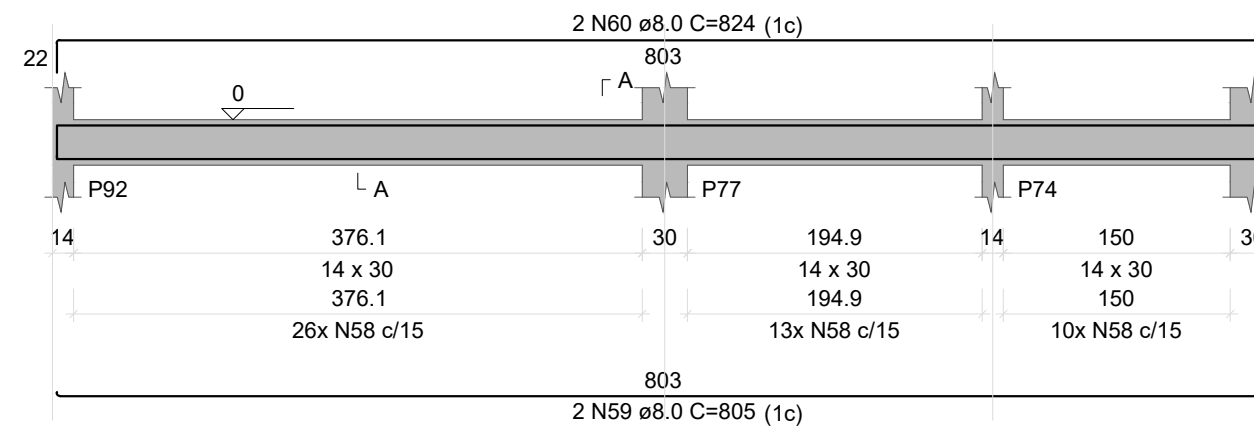
SEÇÃO A-A

ESC 1:25



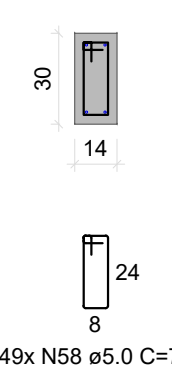
VB42

ESC 1:50



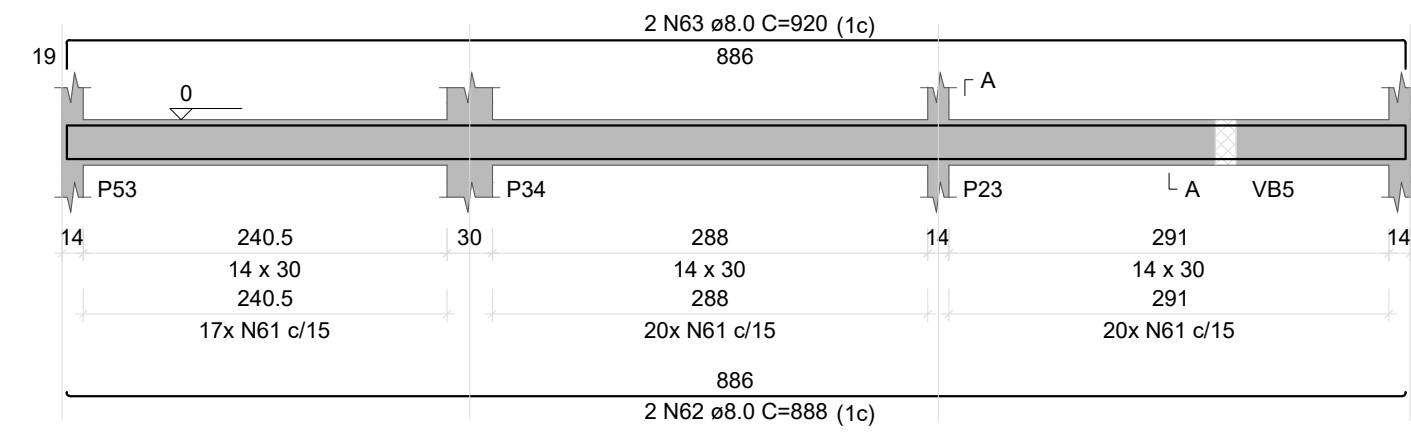
SEÇÃO A-A

ESC 1:25



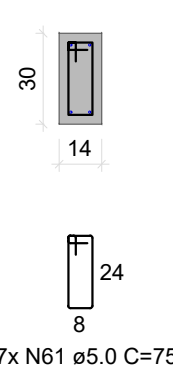
VB43

ESC 1:50



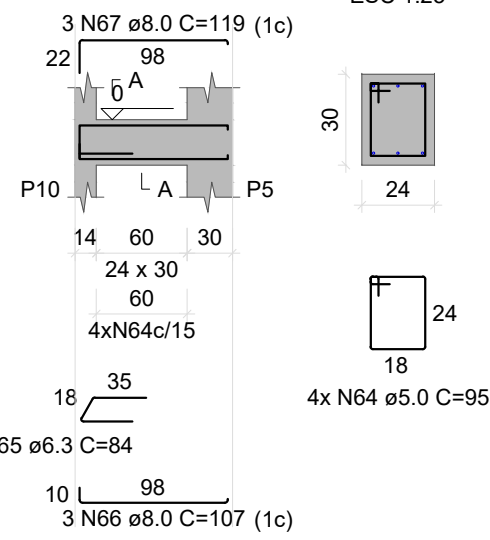
SEÇÃO A-A

ESC 1:25



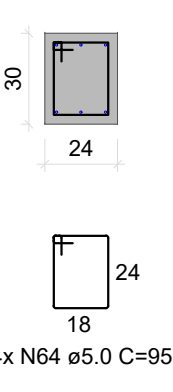
VB44

ESC 1:50



SEÇÃO A-A

ESC 1:25



ESTADO DE MATO GROSSO
PREFEITURA MUNICIPAL DE BARRA DO GARÇAS
CNPJ 03.439.239/0001-50
Rua Carajás, 522 centro - Barra do Garças MT - CEP 78.600-000



PREFEITURA
BARRA DO GARÇAS
SECRETARIA DE DESENVOLVIMENTO
URBANO E SUSTENTÁVEL

Folha :

08/13

Obra :
CONSTRUÇÃO PRÉ-ESCOLA PADRÃO SEDUC - BAIRRO MORADA DO SOL

Conteúdo :
PROJETO ESTRUTURAL DE CONCRETO ARMADO
DETALHAMENTO VIGAS

Local :
RUA DOS LÍRIOS, QD.10, MORADA DO SOL, BARRA DO GARÇAS-MT

Propriedade :
Prefeitura Municipal Barra do Garças - MT

Proprietário:
Prefeitura Municipal de Barra do Garças - MT

Autor do projeto:
VINICIUS GIRARDI GEISS
CREA/MT 57794

Área Construída:
674,40 m²

Dimensões:
-

Escala :
INDICADO

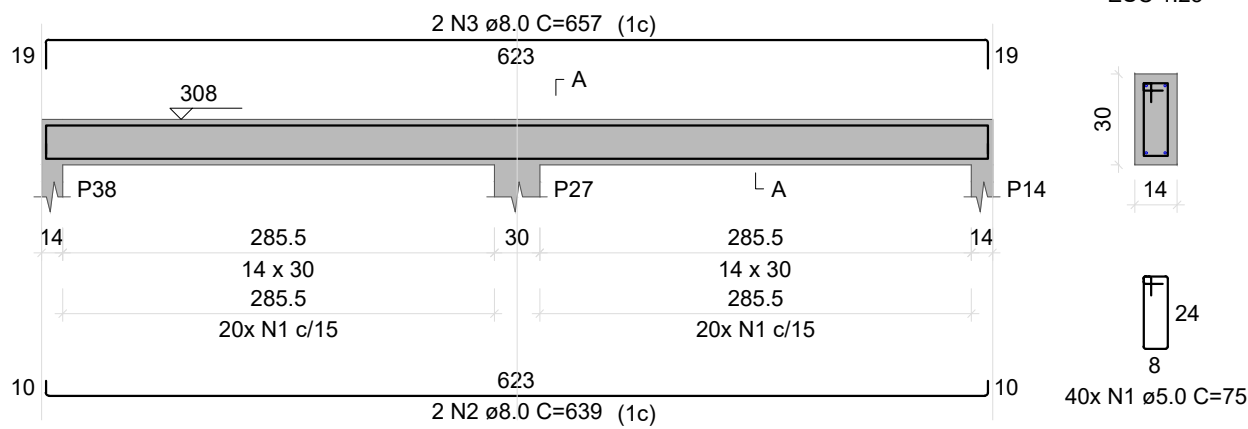
Arquivo :
CAD

Data:
JUN/2026

Projetista :

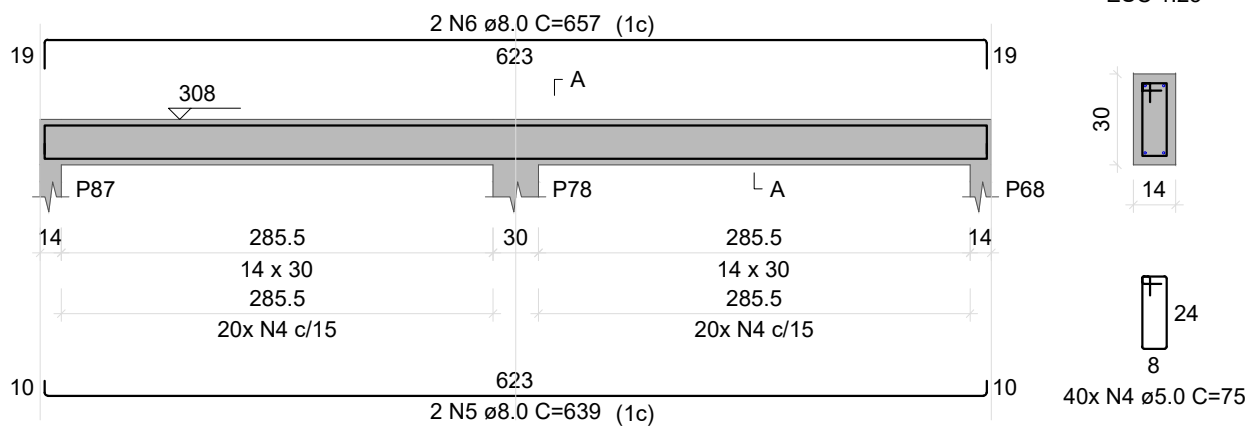
VF25

ESC 1:50



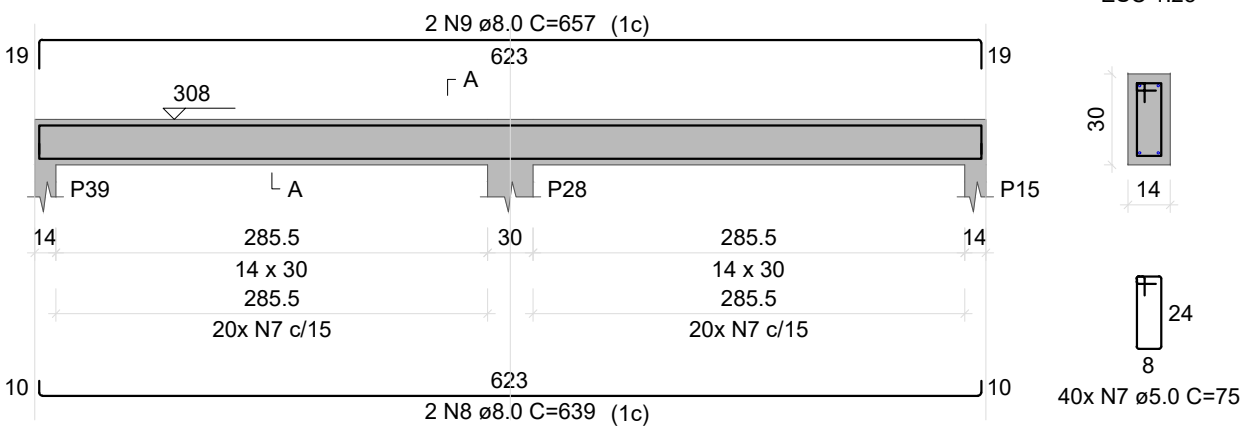
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ESC 1:50



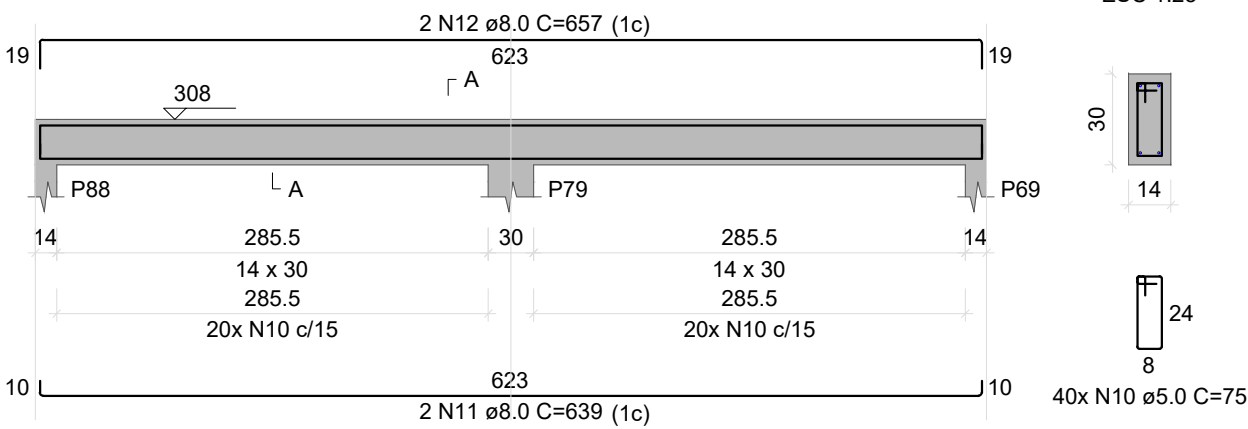
VF27

ESC 1:50



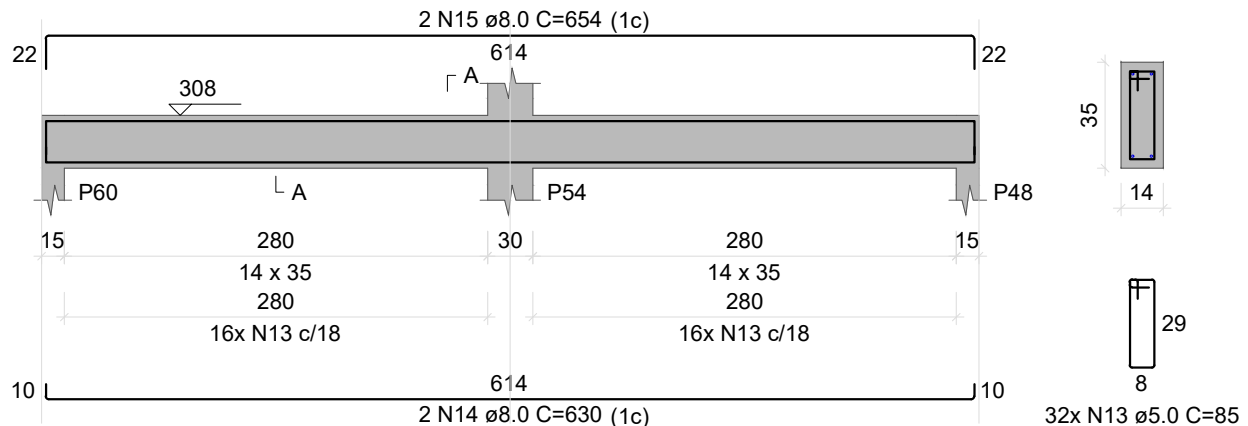
VF28

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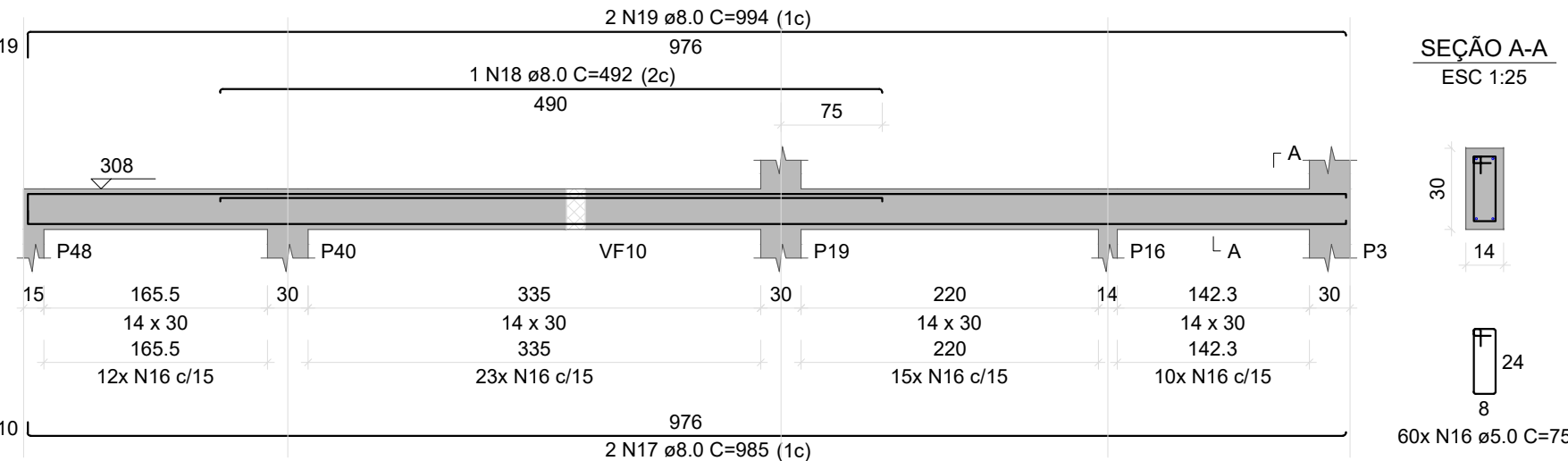
VF29

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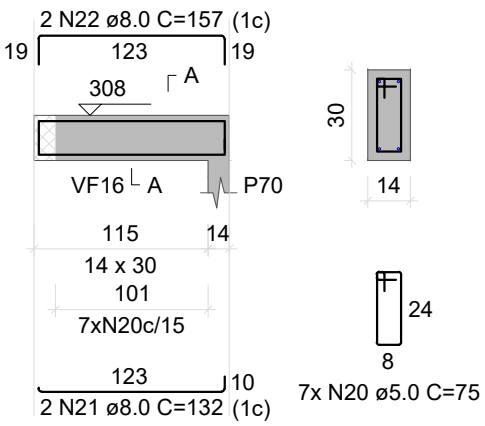
VF30

ESC 1:50



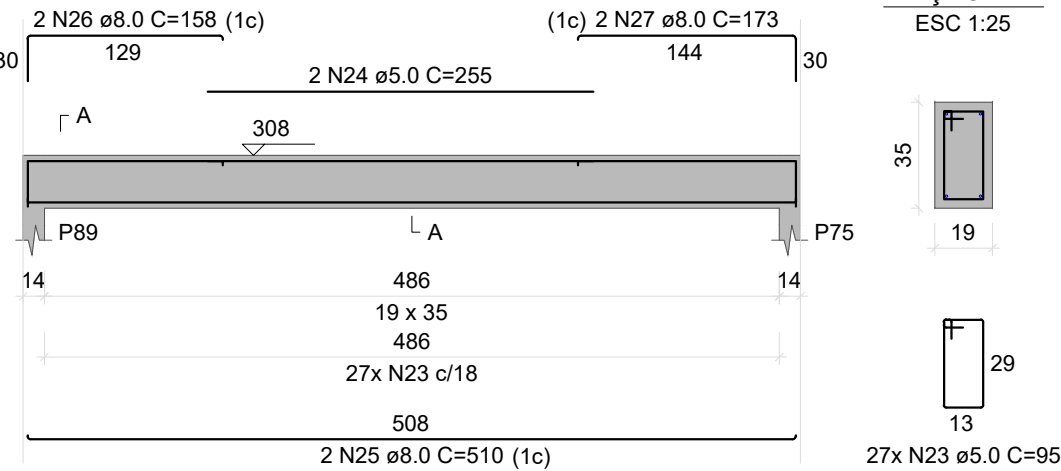
VF31

ESC 1:50



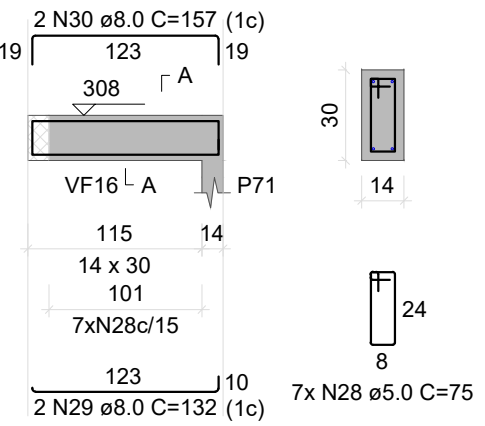
VF32

ESC 1:50



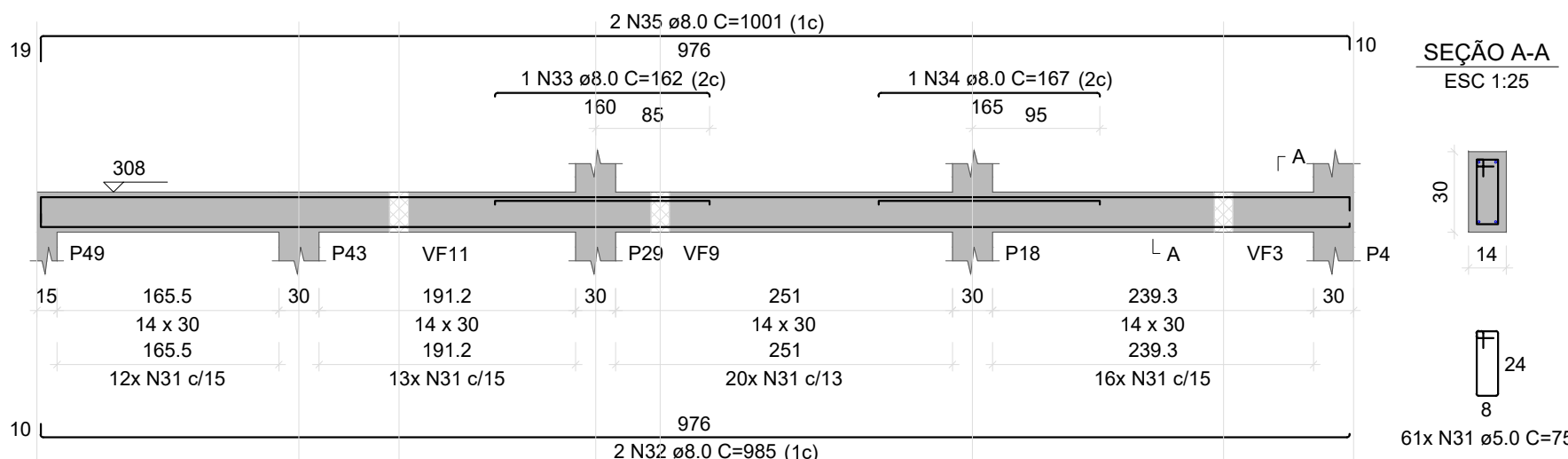
VF33

ESC 1:50



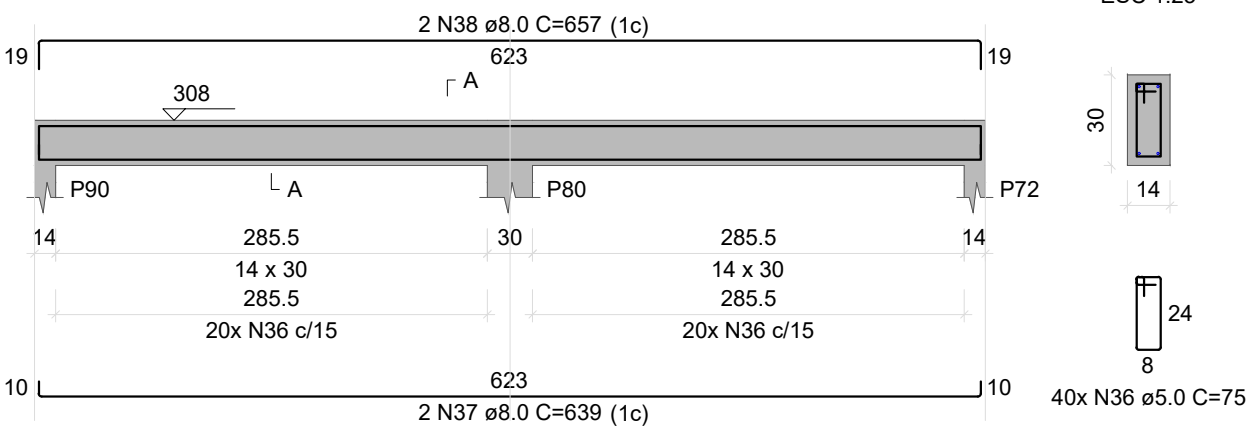
VF34

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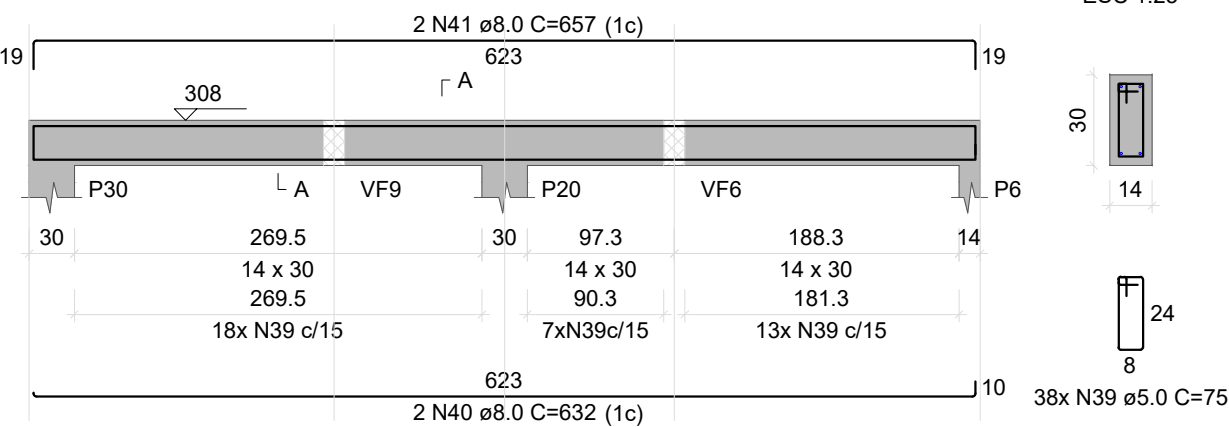
VF35

ESC 1:50



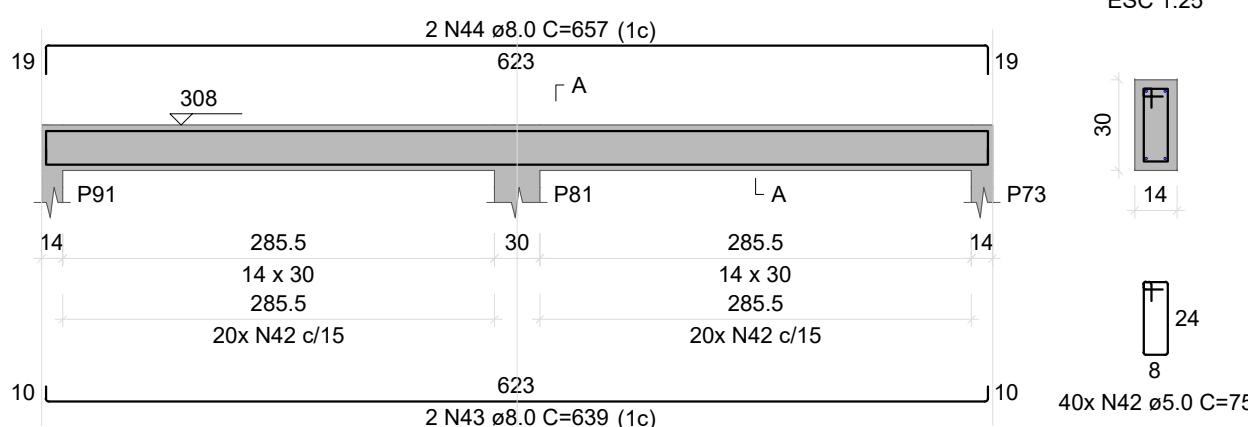
VF36

ESC 1:50



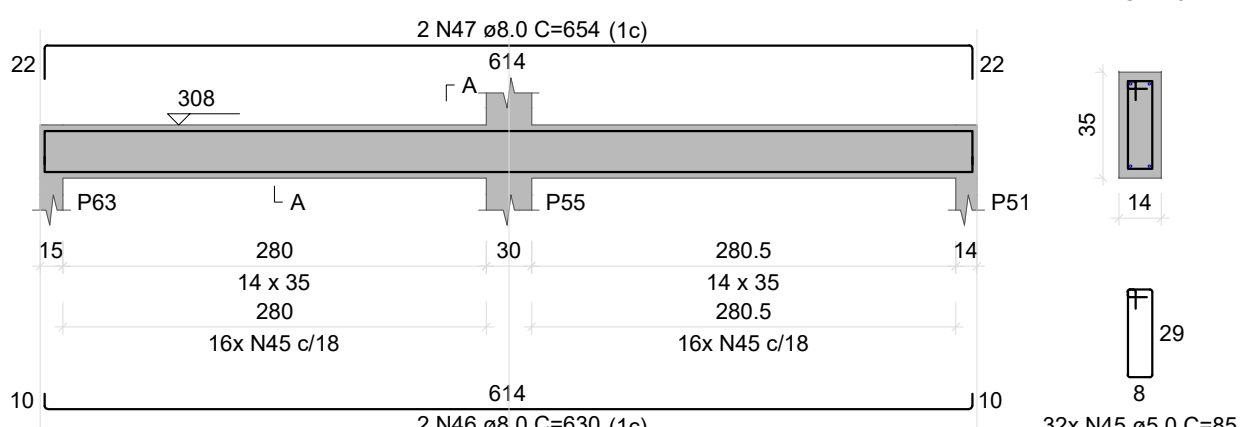
VF37

ESC 1:50



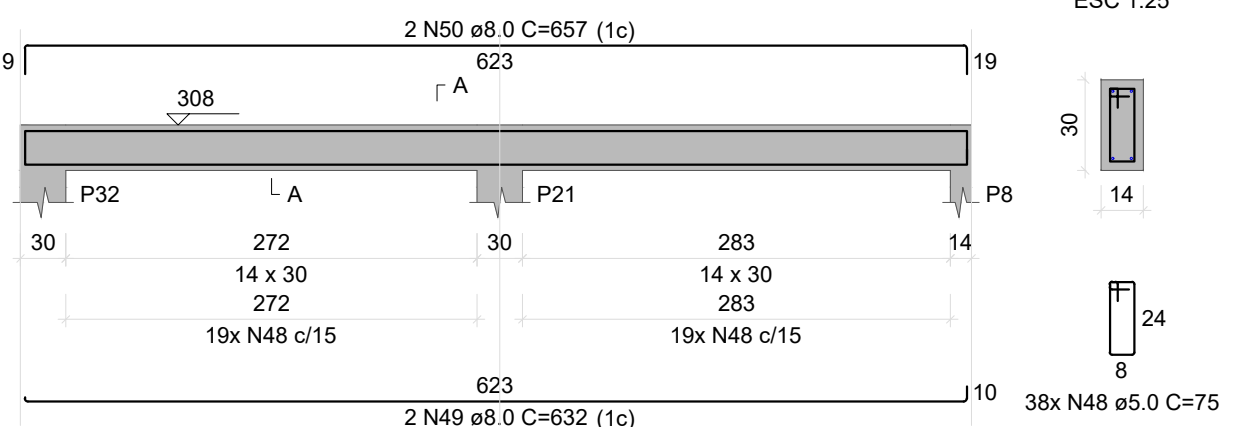
VF38

ESC 1:50



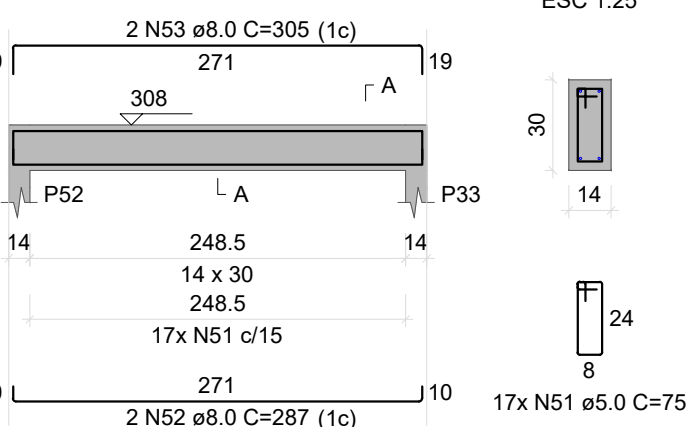
VF39

ESC 1:50



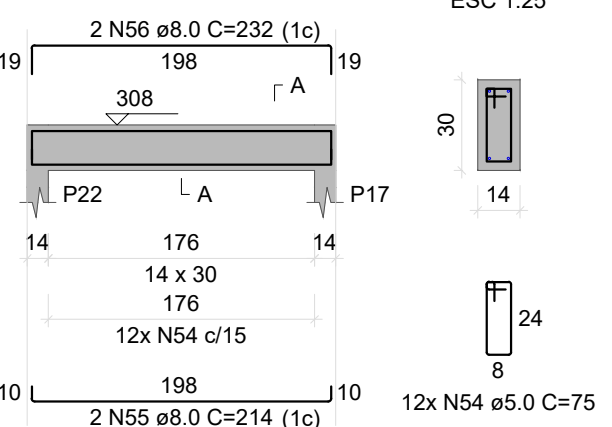
VF40

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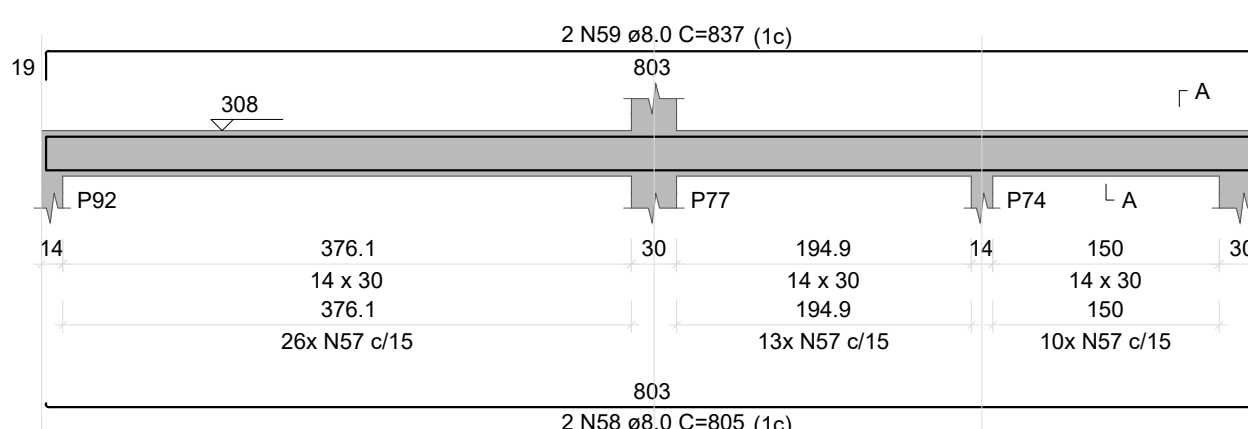
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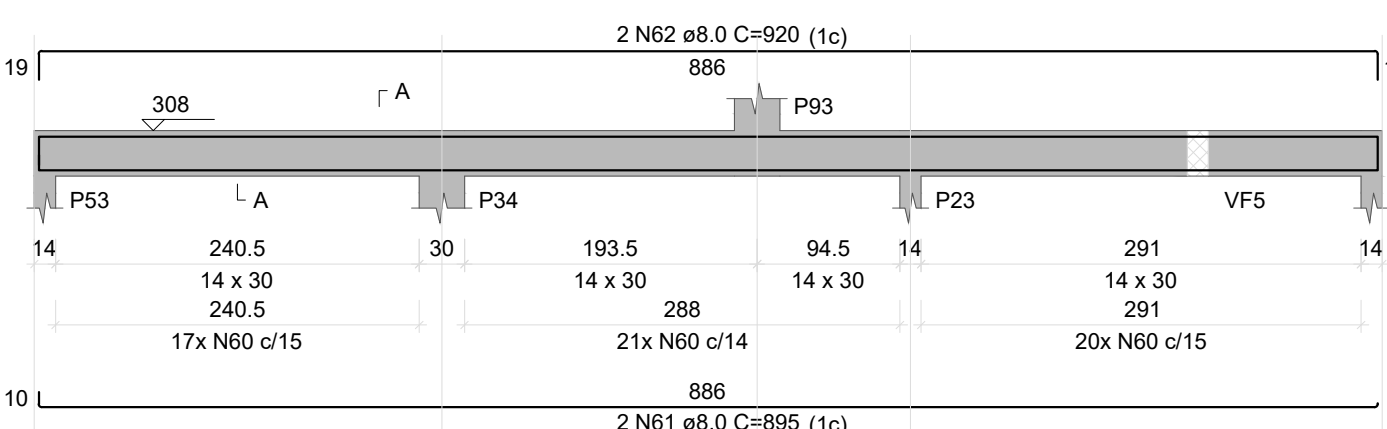
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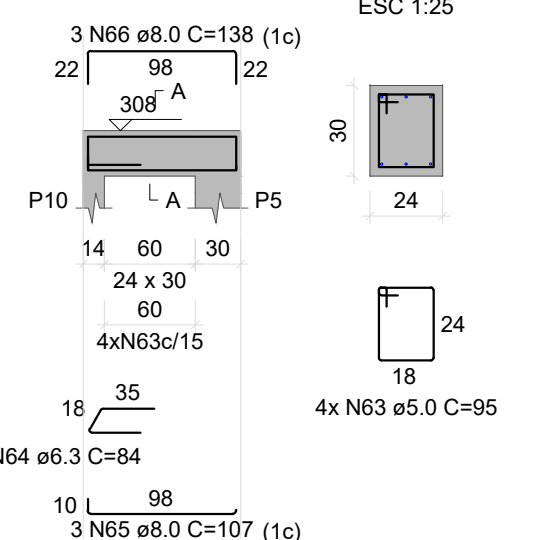
VF43

ESC 1:50



VF44

ESC 1:50



ESTADO DE MATO GROSSO
PREFEITURA MUNICIPAL DE BARRA DO GARÇAS
CNPJ 03.439.239/0001-50
Rua Carajás, 522 centro - Barra do Garças MT - CEP 78.600-000



PREFEITURA
BARRA DO GARÇAS
SECRETARIA DE DESENVOLVIMENTO
URBANO E SUSTENTÁVEL

Folha :

09/13

Obra :
CONSTRUÇÃO PRÉ-ESCOLA PADRÃO SEDUC - BAIRRO MORADA DO SOL

Conteúdo :
PROJETO ESTRUTURAL DE CONCRETO ARMADO
DETALHAMENTO VIGAS

Local :
RUA DOS LÍRIOS, QD.10, MORADA DO SOL, BARRA DO GARÇAS-MT

Propriedade :
Prefeitura Municipal Barra do Garças - MT

Proprietário:
Prefeitura Municipal de
Barra do Garças - MT

Autor do projeto:
VINICIUS GIRARDI GEISS
CREA/MT 57794

Área Construída:
674,40 m²

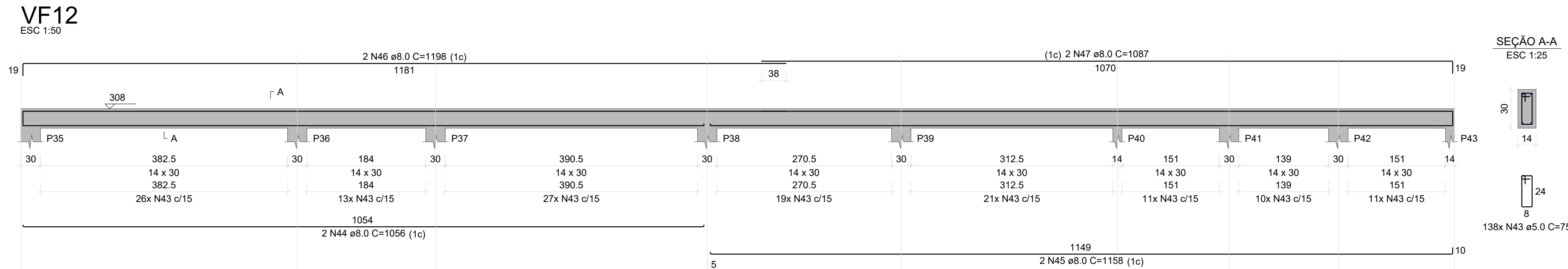
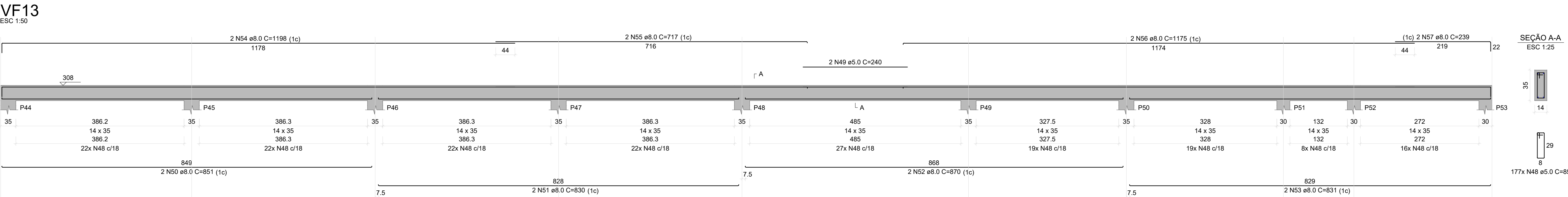
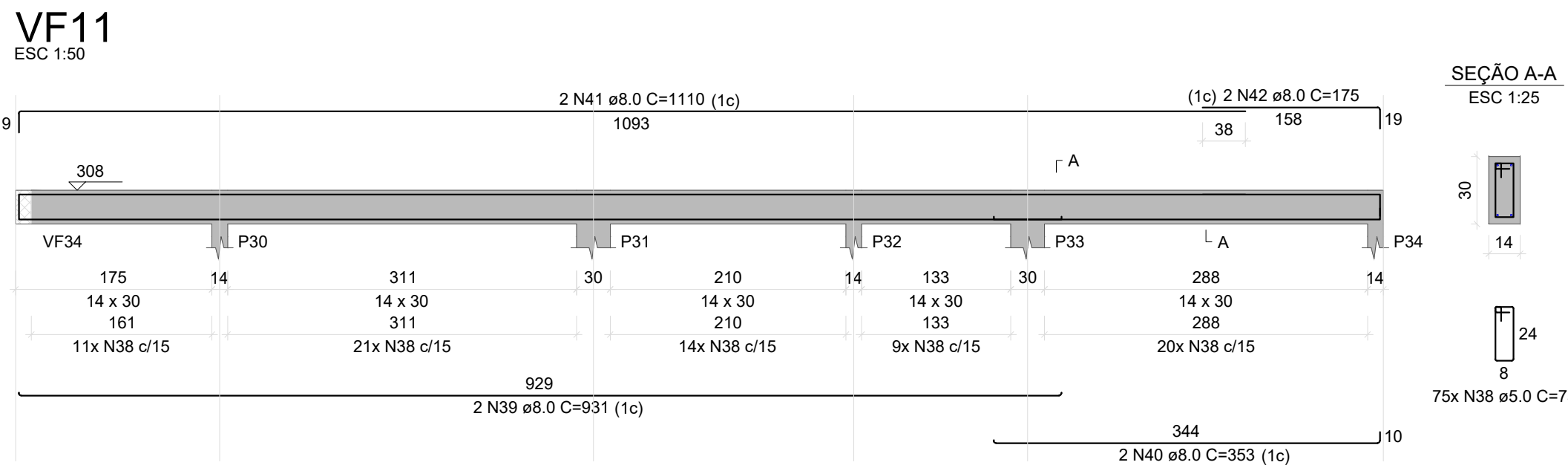
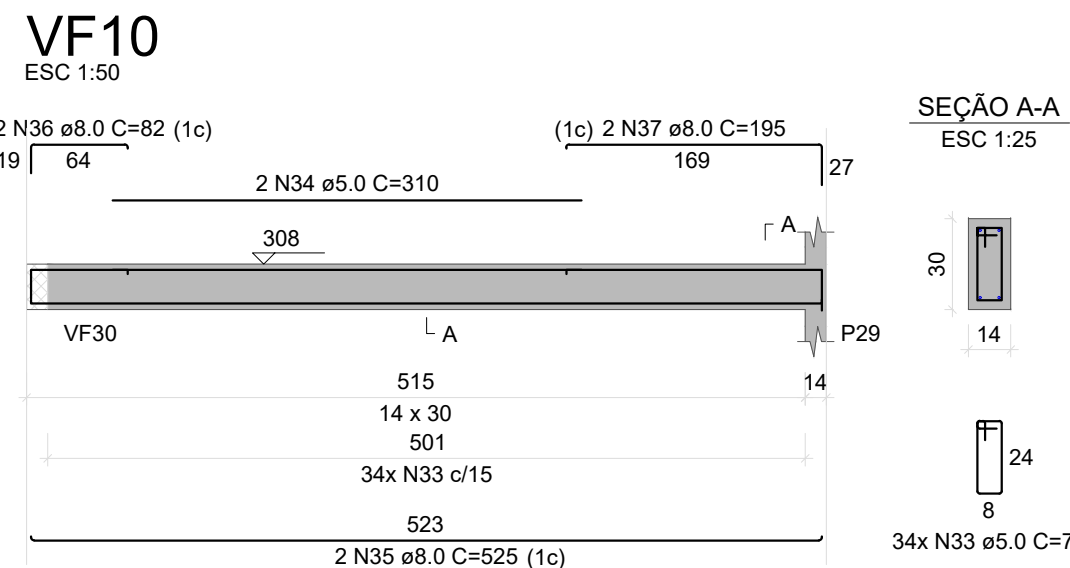
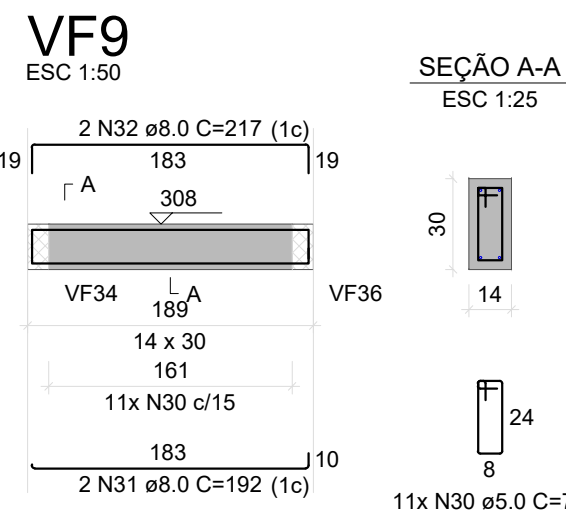
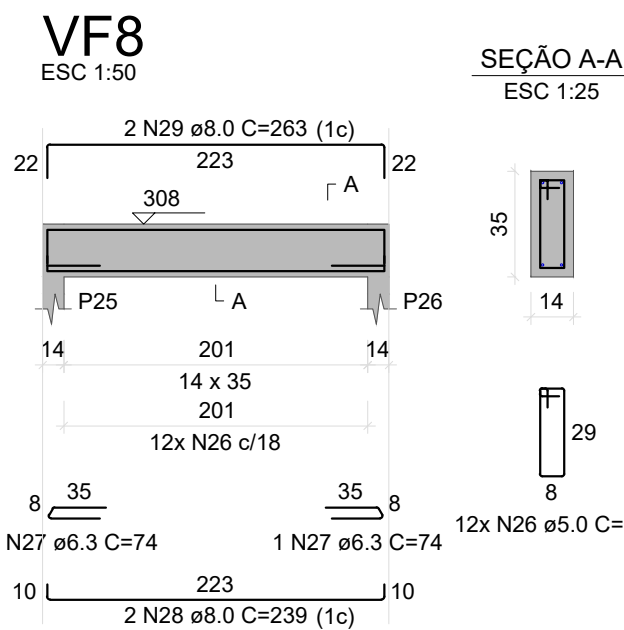
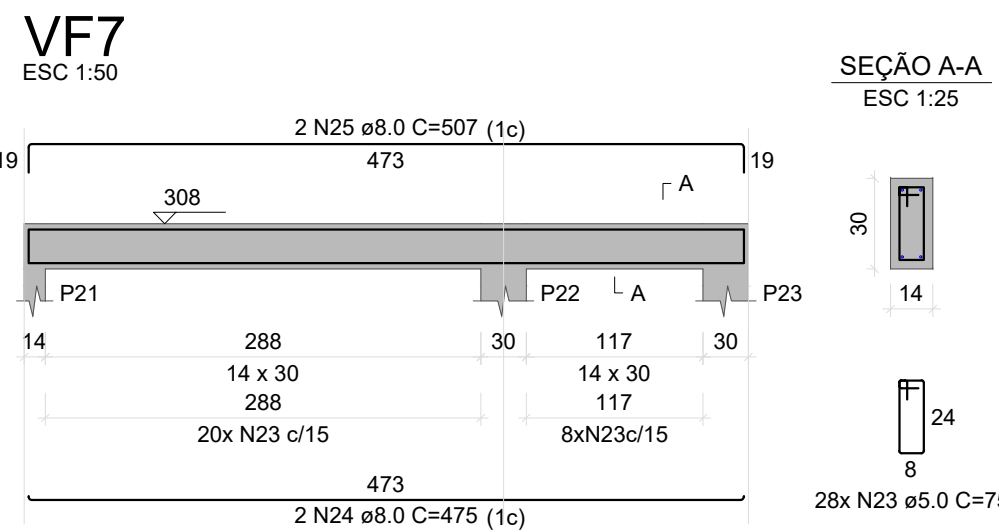
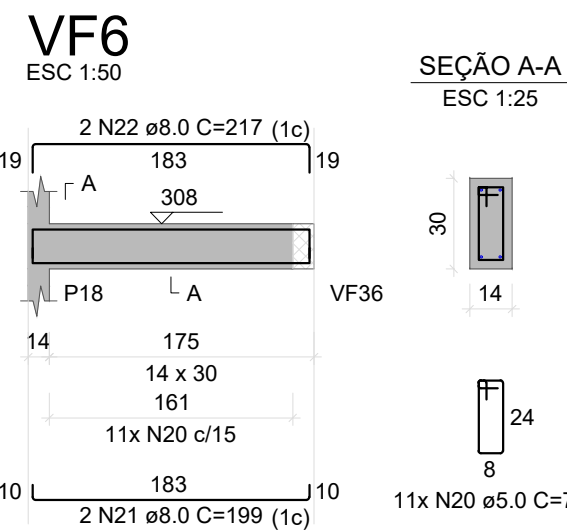
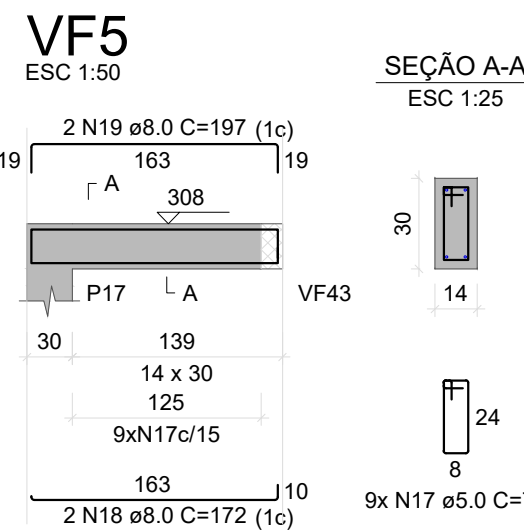
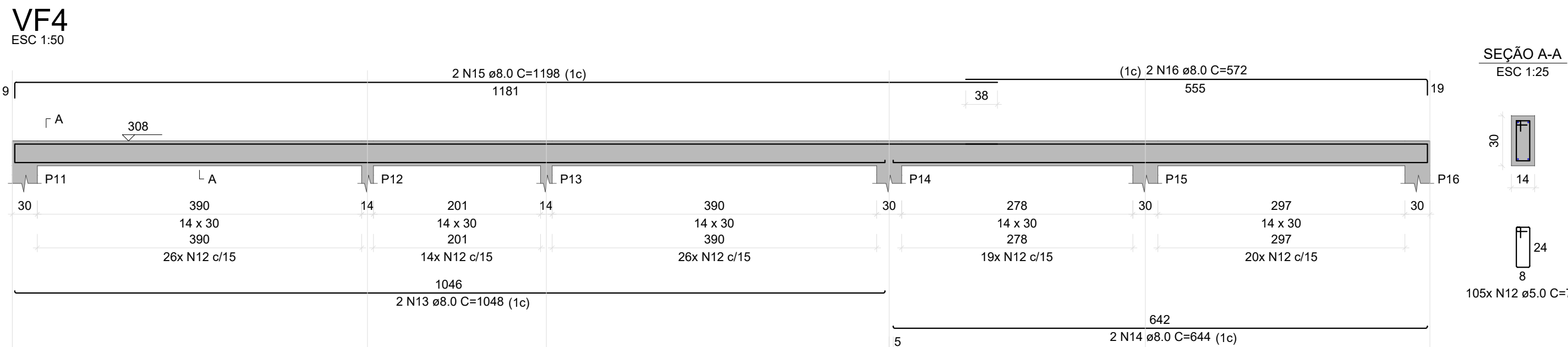
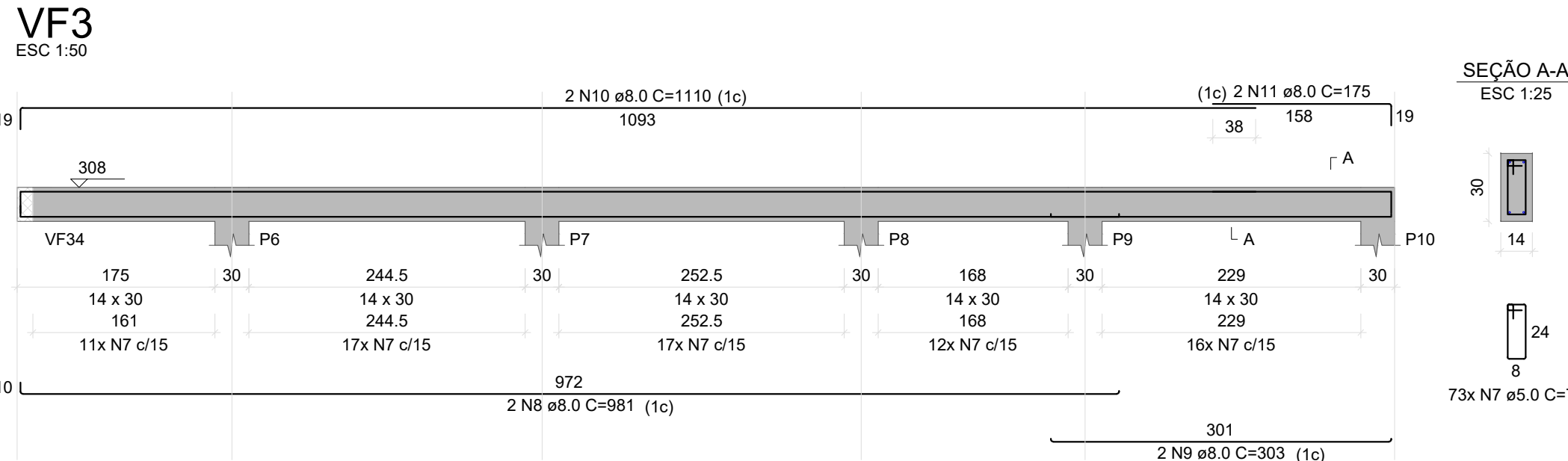
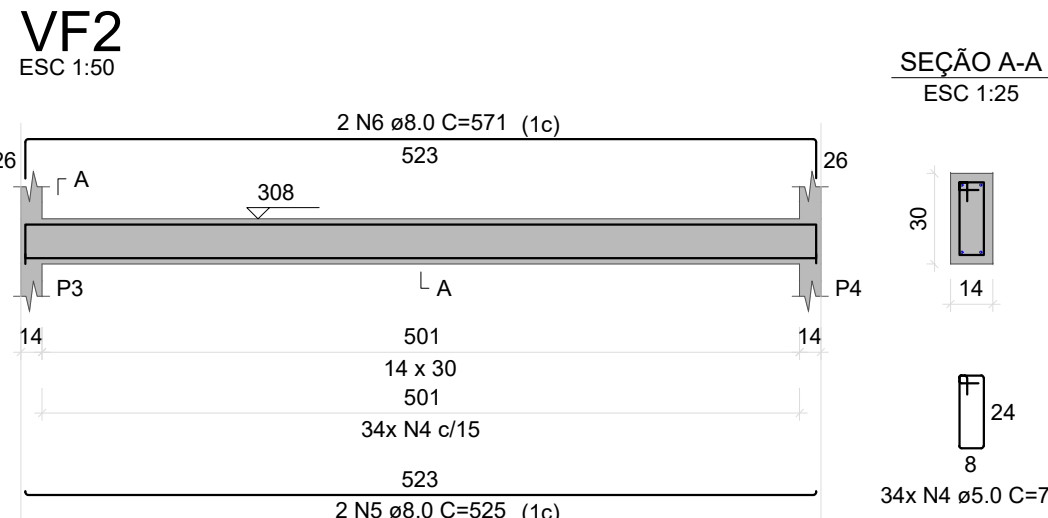
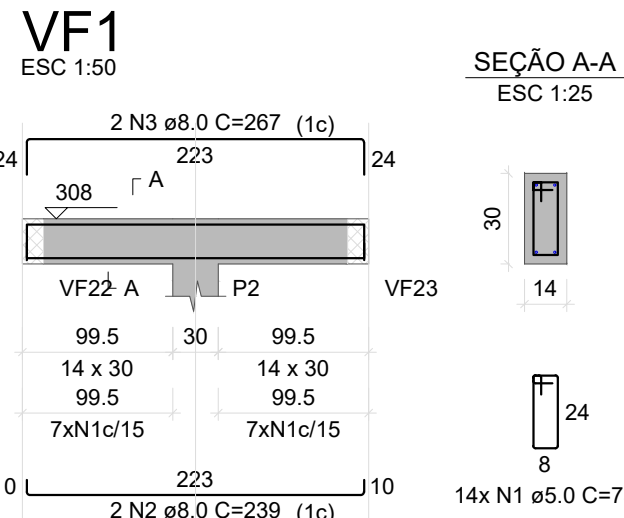
Dimensões:
-

Escala :
INDICADO

Arquivo :
CAD

Data :
JUN/2026

Projetista :



ESTADO DE MATO GROSSO
PREFEITURA MUNICIPAL DE BARRA DO GARÇAS
CNPJ 03.439.239/0001-50
Rua Carajás, 522 centro - Barra do Garças MT - CEP 78.600-000



PREFEITURA
BARRA DO GARÇAS
SECRETARIA DE DESENVOLVIMENTO
URBANO E SUSTENTÁVEL

Folha :

10/13

Obra :
CONSTRUÇÃO PRÉ-ESCOLA PADRÃO SEDUC - BAIRRO MORADA DO SOL

Conteúdo :
PROJETO ESTRUTURAL DE CONCRETO ARMADO
DETALHAMENTO VIGAS

Local :
RUA DOS LÍRIOS, QD.10, MORADA DO SOL, BARRA DO GARÇAS-MT

Propriedade :
Prefeitura Municipal Barra do Garças - MT

Proprietário:

Autor do projeto:

Prefeitura Municipal de
Barra do Garças - MT

VINICIUS GIRARDI GEISS
CREA/MT 57794

Área Construída:
674,40 m²

Dimensões:
-

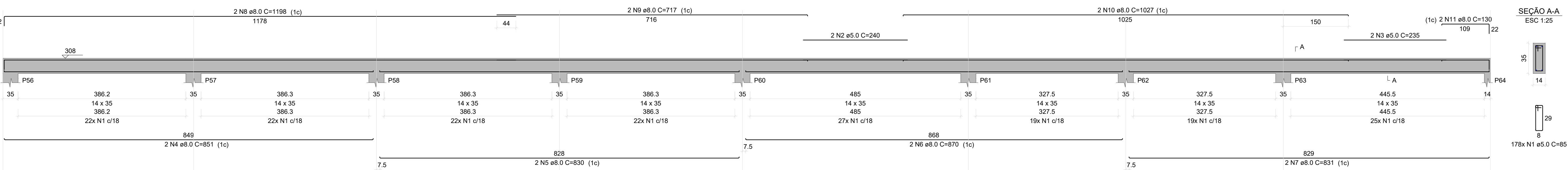
Escala :
INDICADO

Arquivo :
CAD

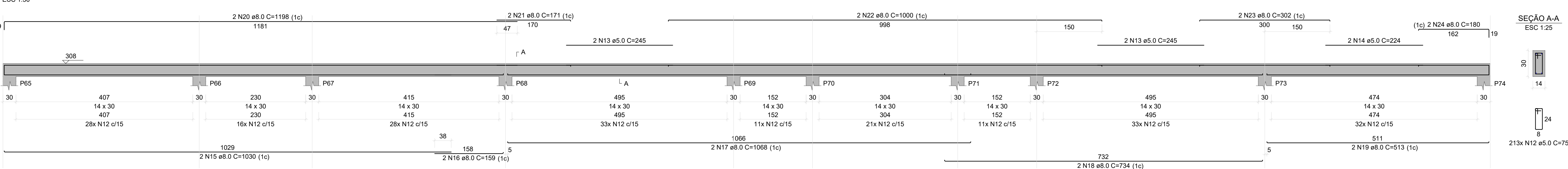
Data:
JUN/2026

Projetista :

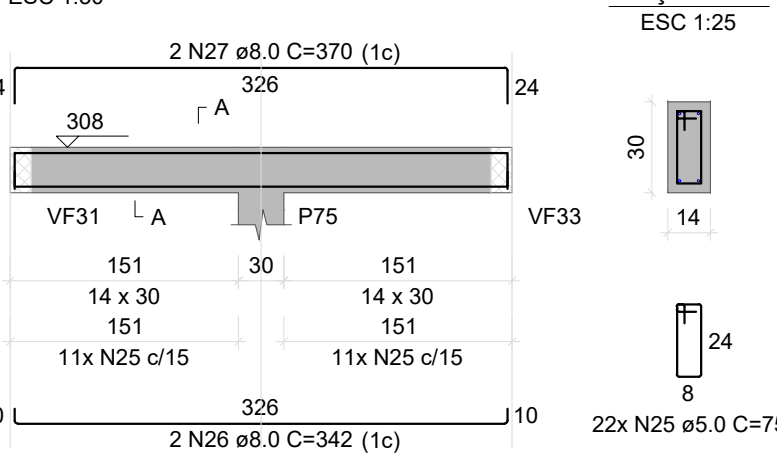
VF14



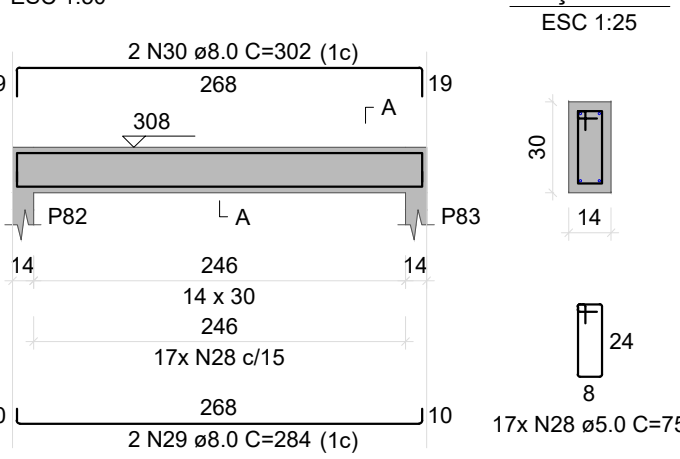
VF15



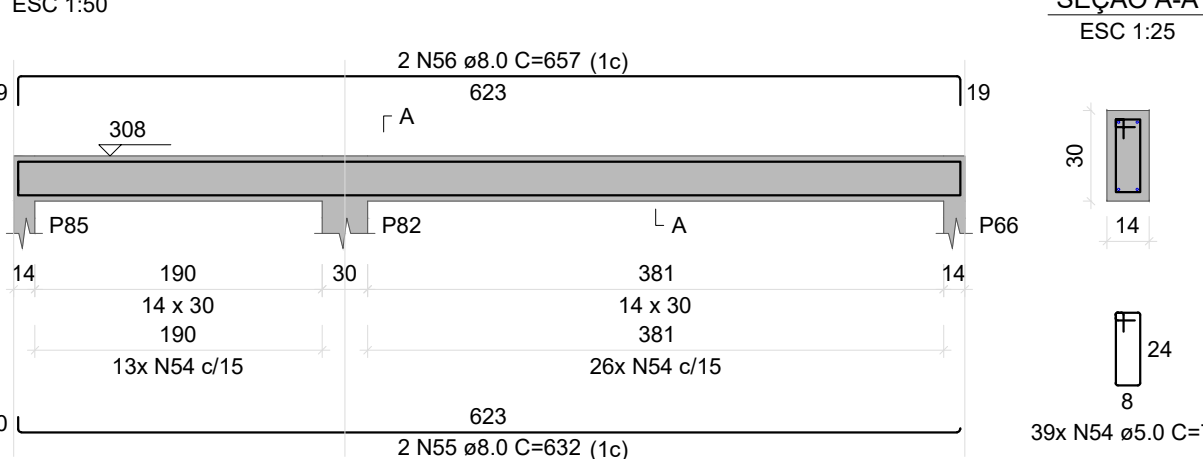
VF16



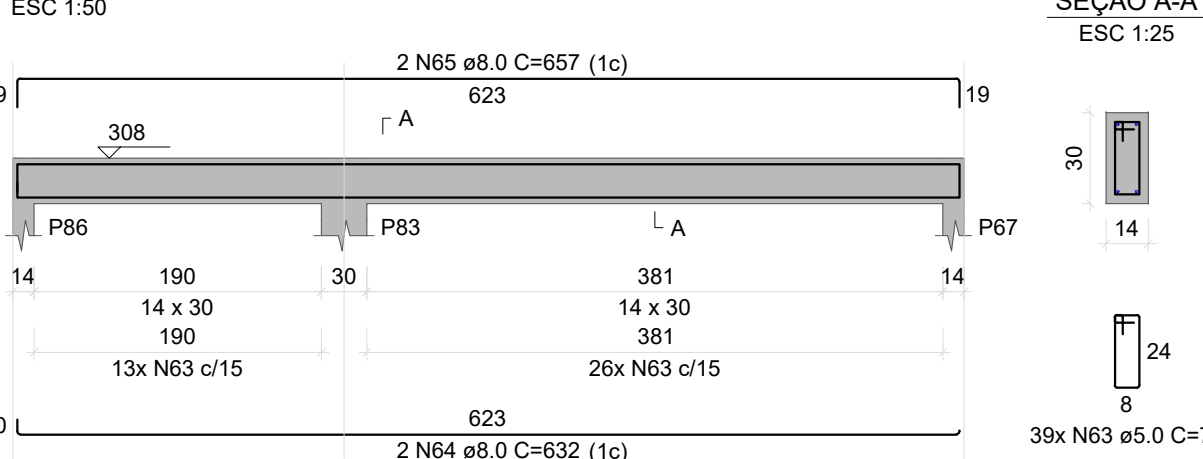
VF17



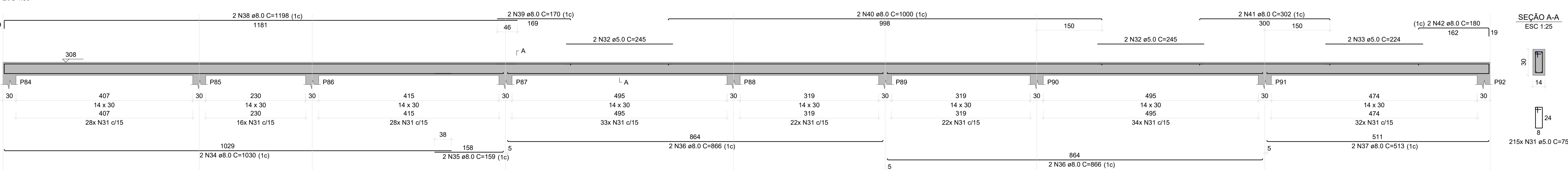
VF21



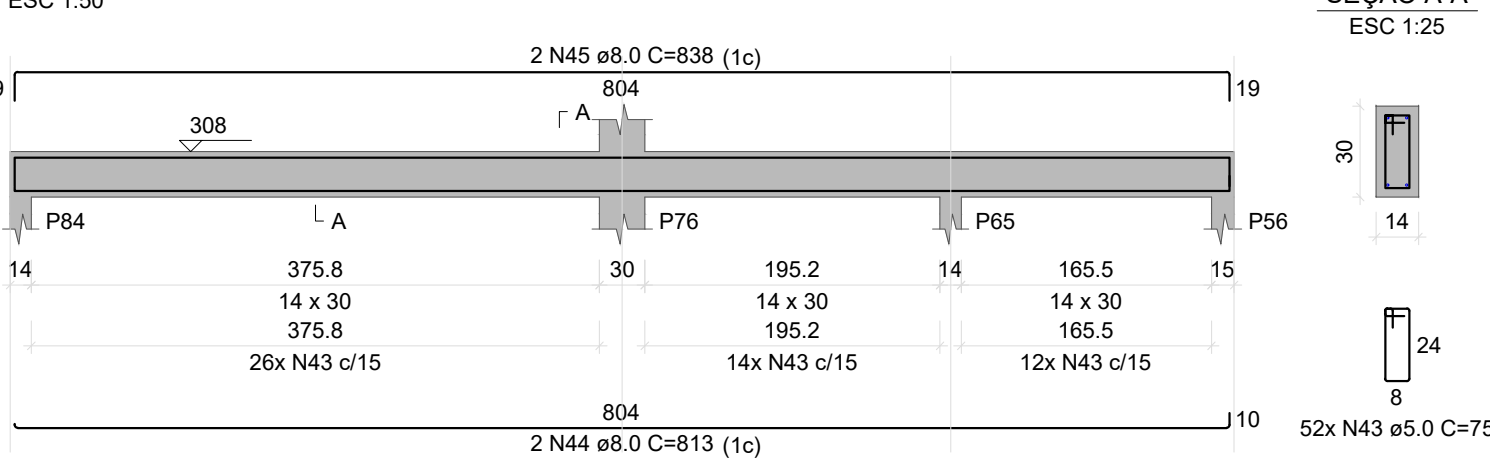
VF24



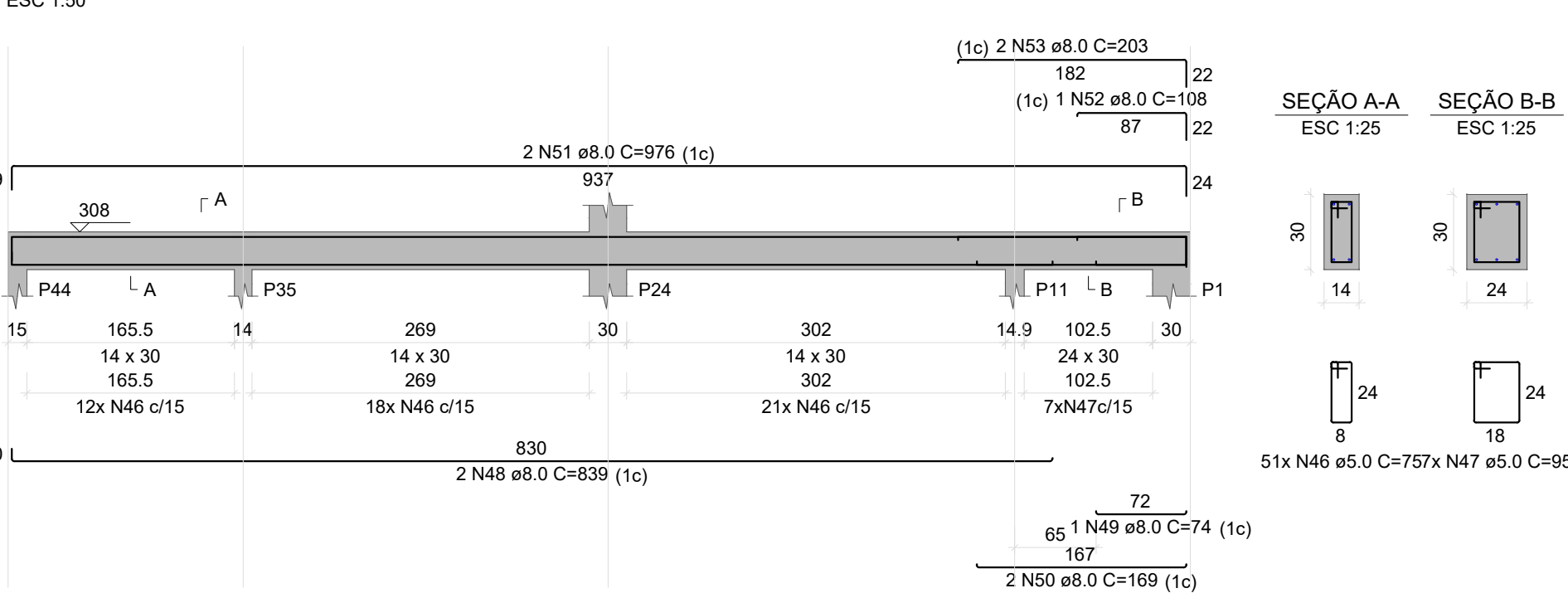
VF18



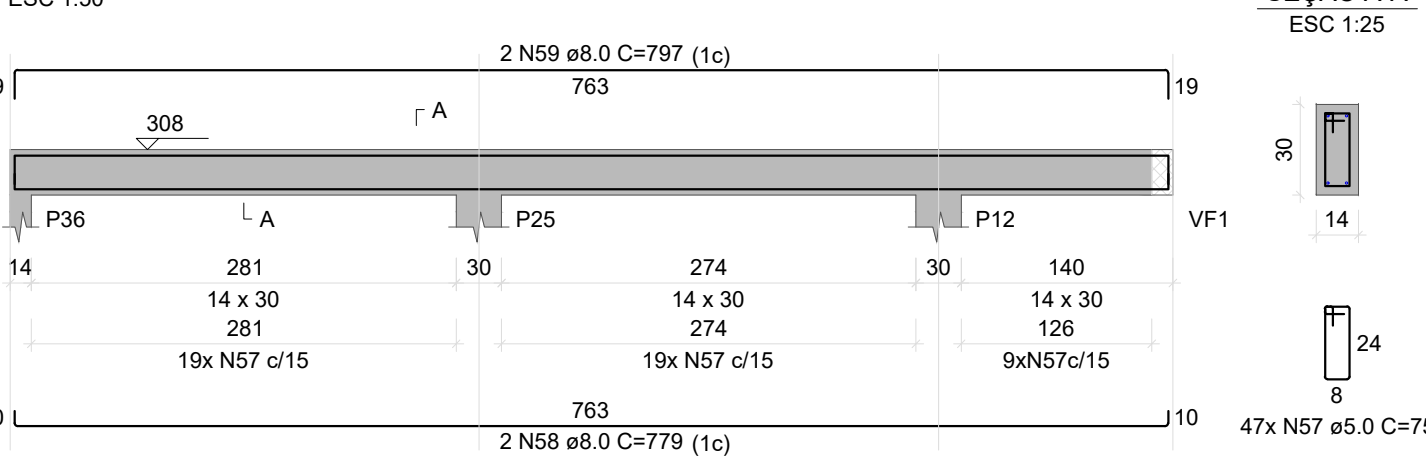
VF19



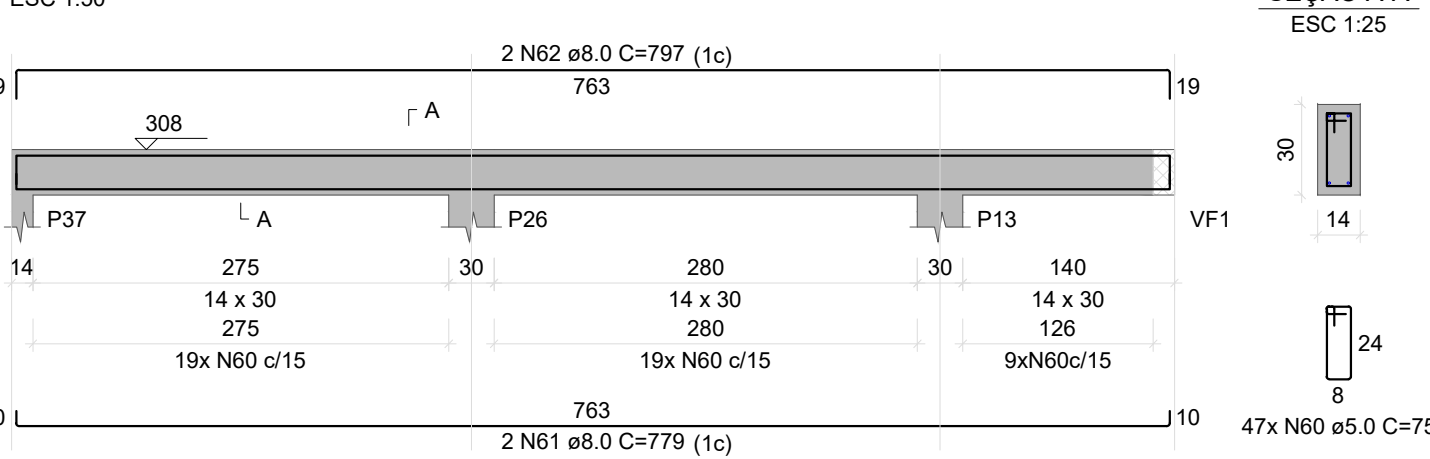
VF20



VF22



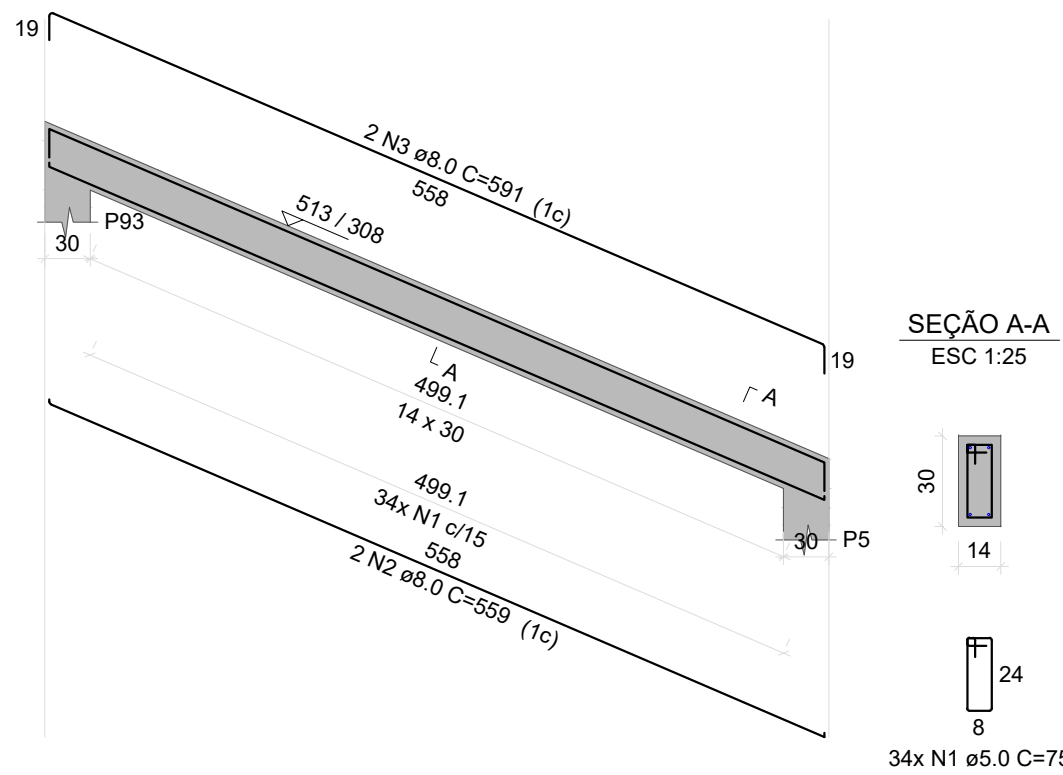
VF23



ESTADO DE MATO GROSSO PREFEITURA MUNICIPAL DE BARRA DO GARÇAS CNPJ 03.439.239/0001-50 Rua Carajás, 522 centro - Barra do Garças MT - CEP 78.600-000		 PREFEITURA BARRA DO GARÇAS SECRETARIA DE DESENVOLVIMENTO URBANO E SUSTENTÁVEL	Folha : 11/13
Obra : CONSTRUÇÃO PRÉ-ESCOLA PADRÃO SEDUC - BAIRRO MORADA DO SOL			
Conteúdo : PROJETO ESTRUTURAL DE CONCRETO ARMADO DETALHAMENTO VIGAS			
Local : RUA DOS LÍRIOS, QD.10, MORADA DO SOL, BARRA DO GARÇAS-MT			
Propriedade : Prefeitura Municipal Barra do Garças - MT			
Proprietário: Prefeitura Municipal de Barra do Garças - MT		Autor do projeto: VINICIUS GIRARDI GEISS CREA/MT 57794	
Área Construída: 674,40 m²	Dimensões: -	Escala : INDICADO	
Arquivo : CAD	Data : JUN/2026	Projetista :	

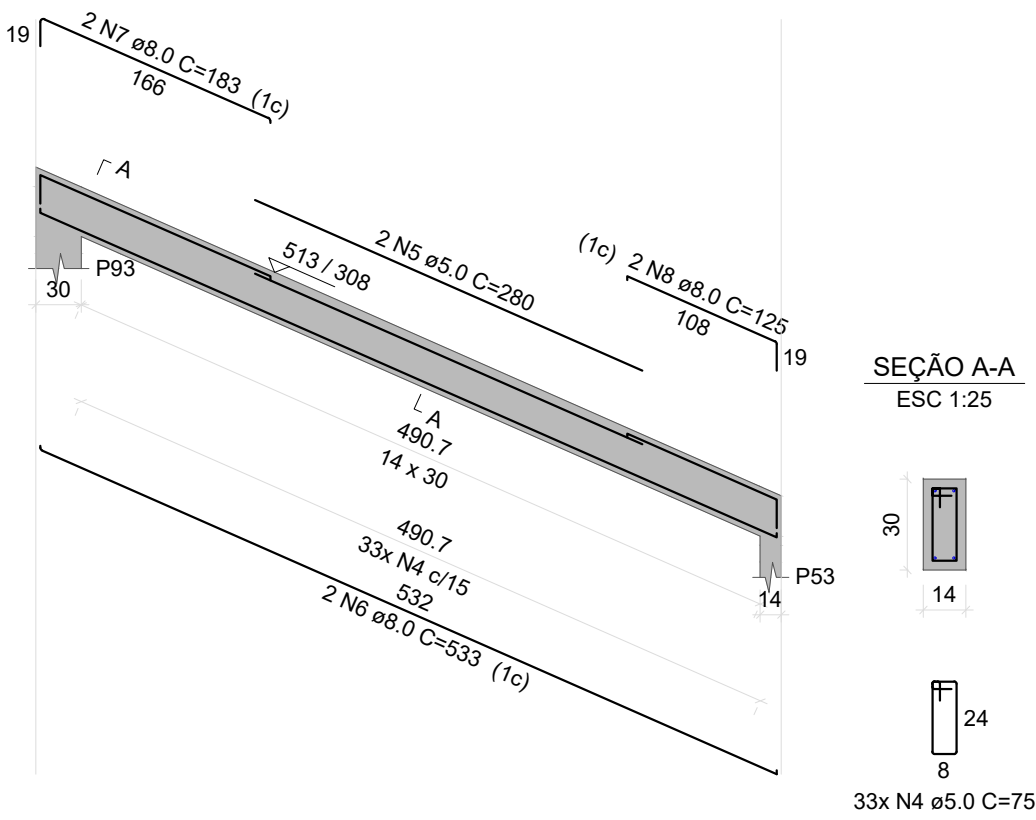
V11

ESC 1:50



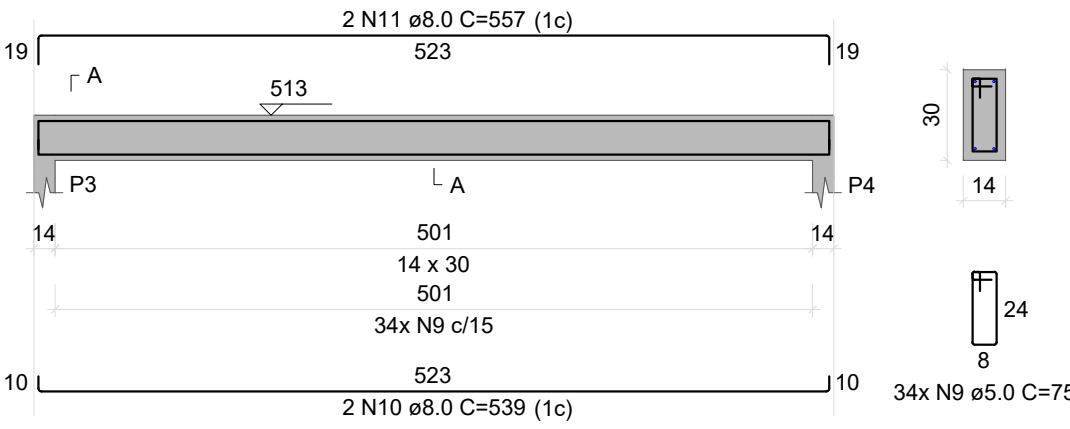
V12

ESC 1:50



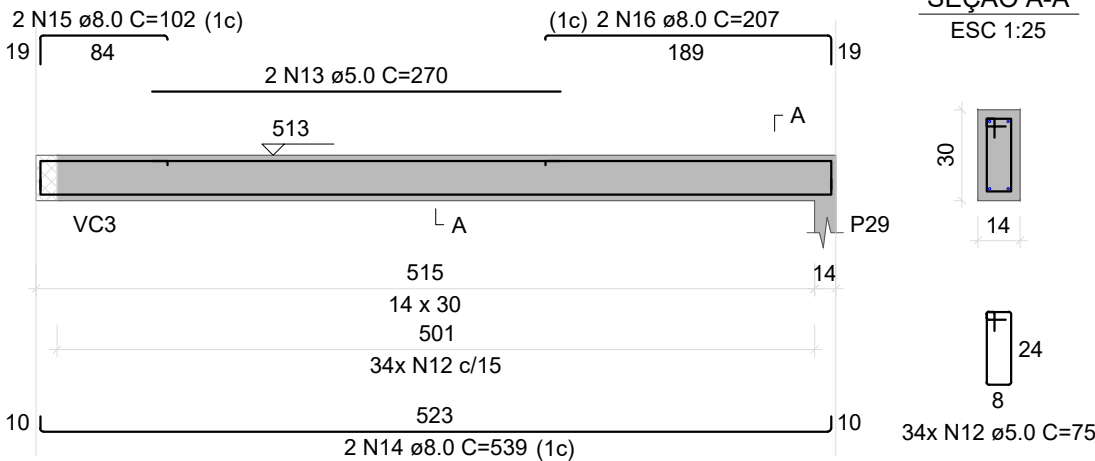
VC1

ESC 1:50



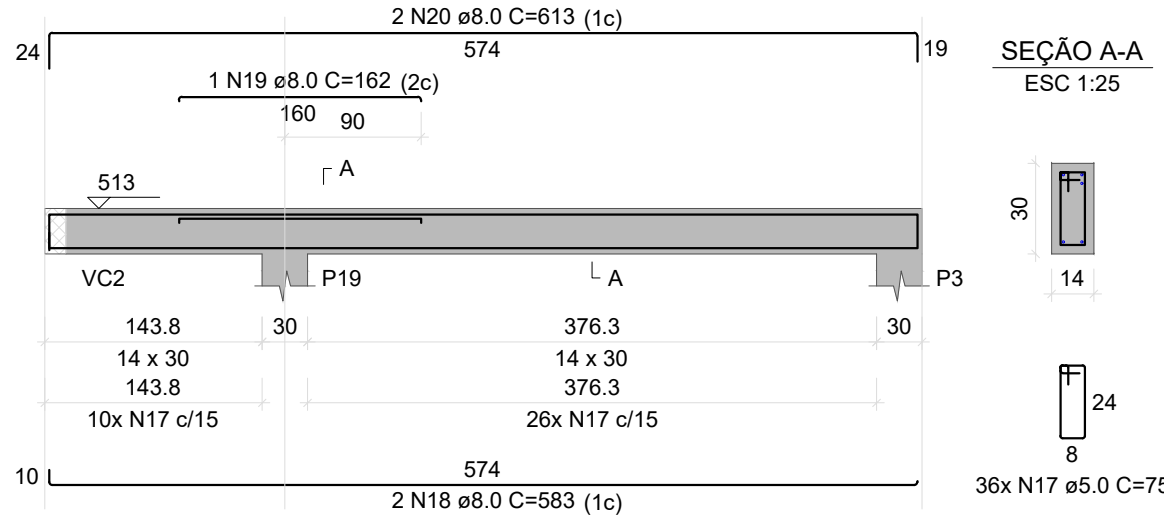
VC2

ESC 1:50



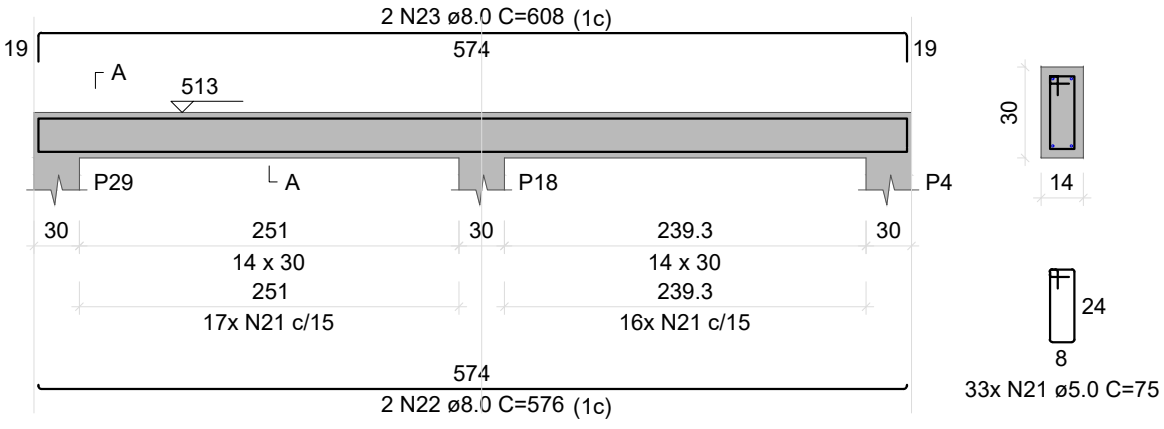
VC3

ESC 1:50



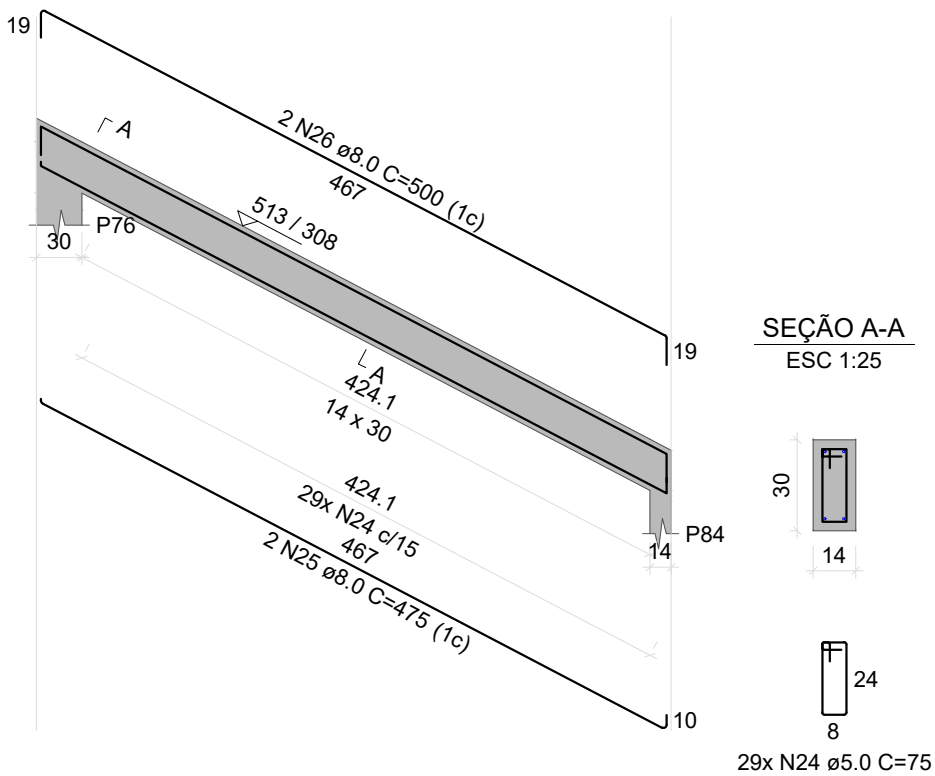
VC4

ESC 1:50



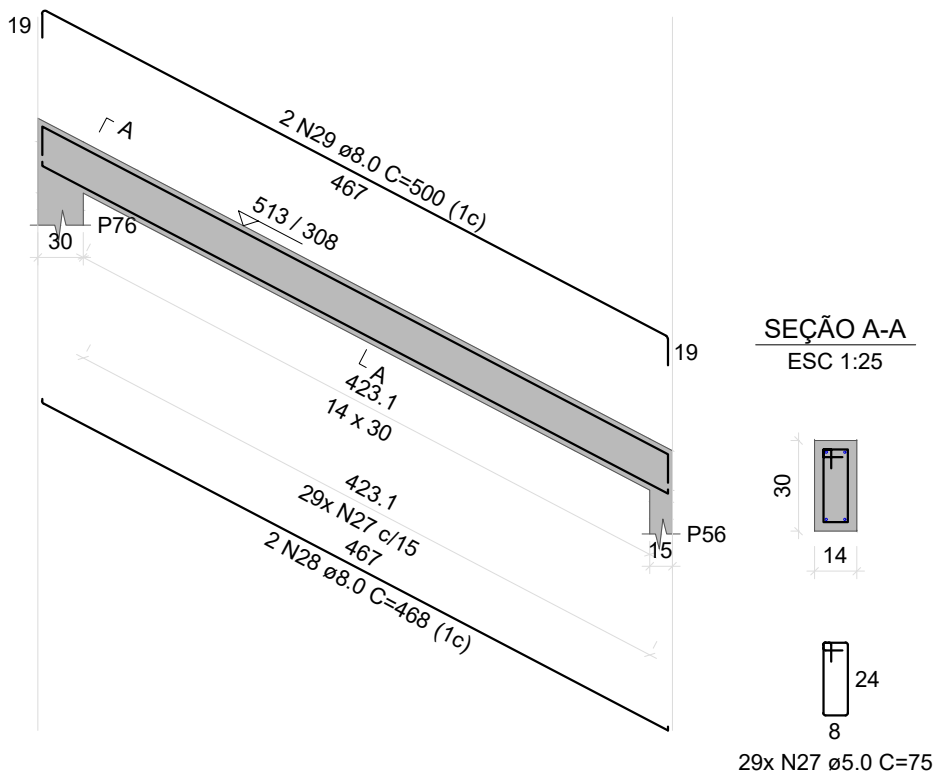
VC5

ESC 1:50



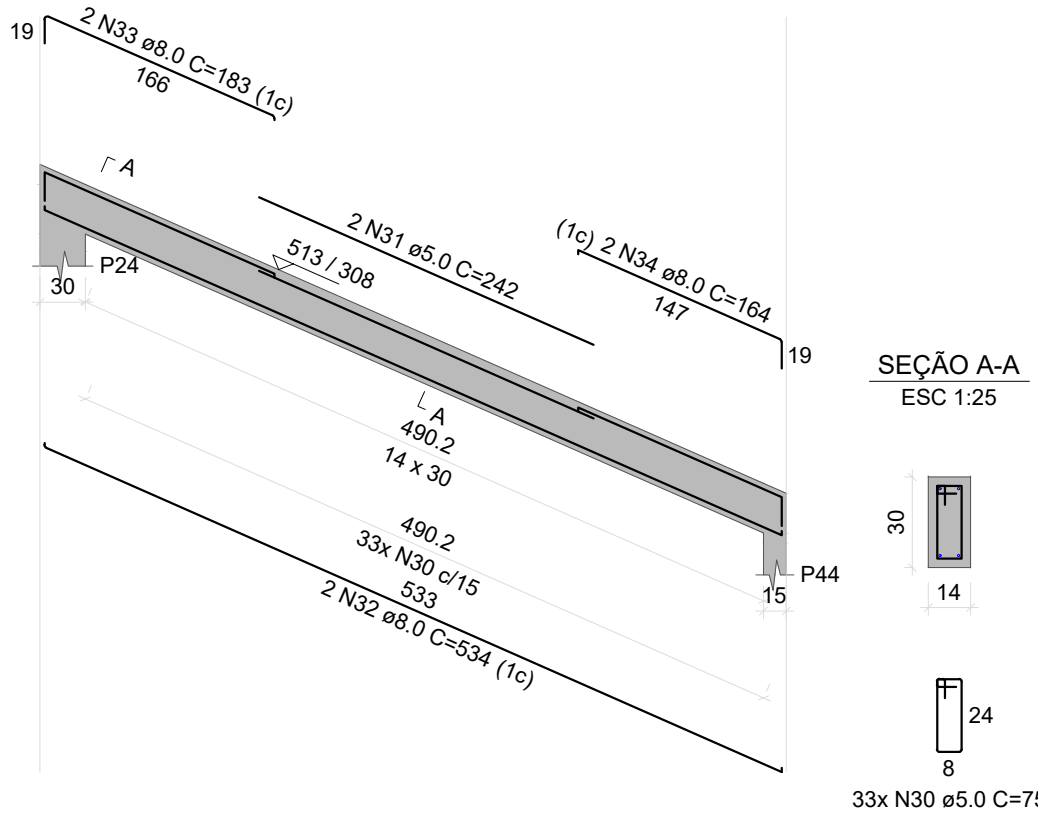
VC6

ESC 1:50



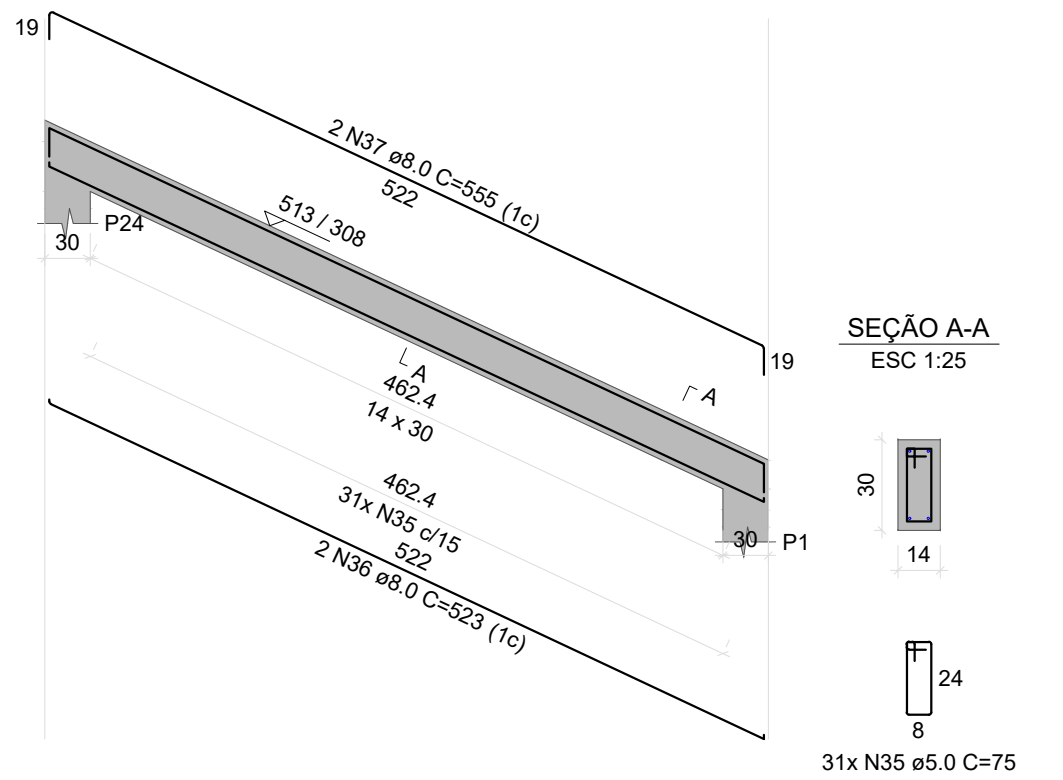
VC7

ESC 1:50



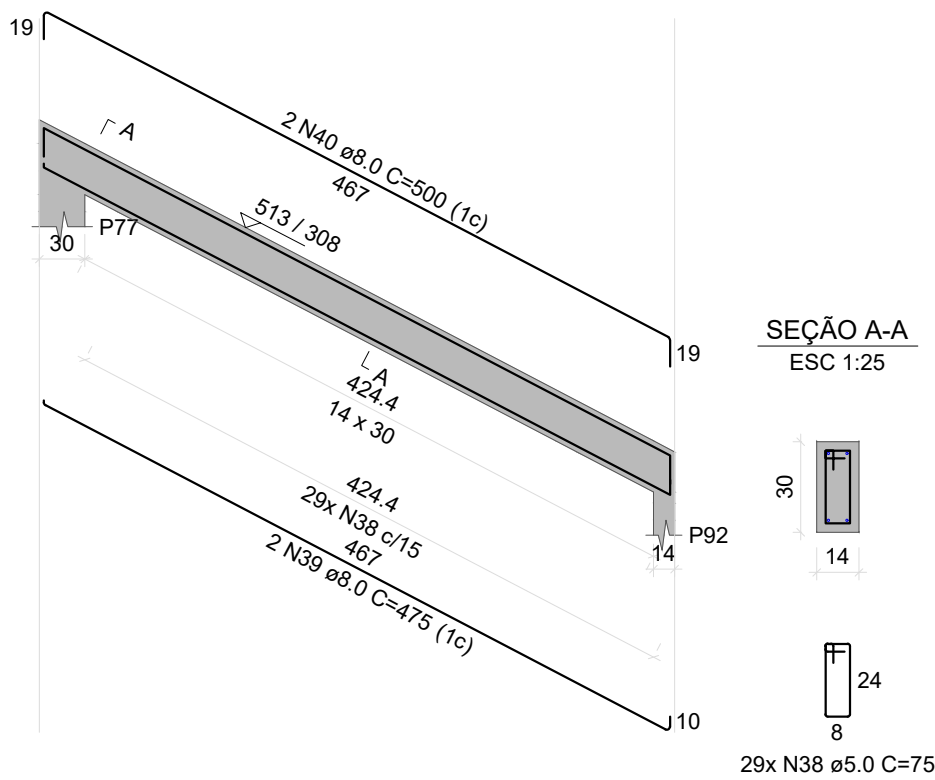
VC8

ESC 1:50



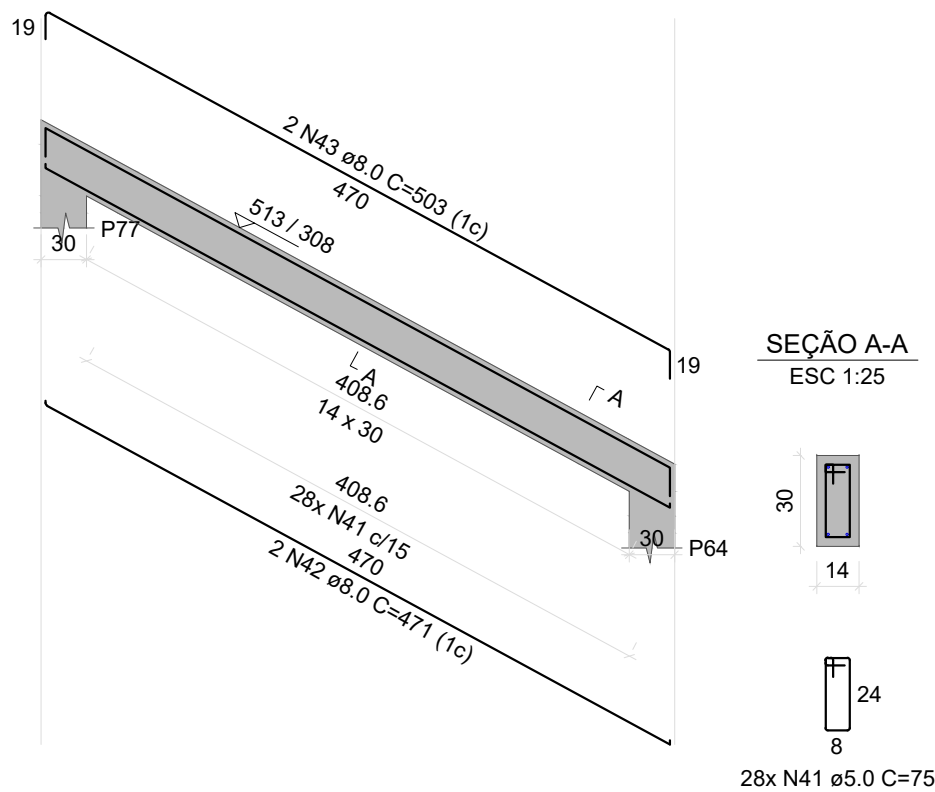
VC9

ESC 1:50



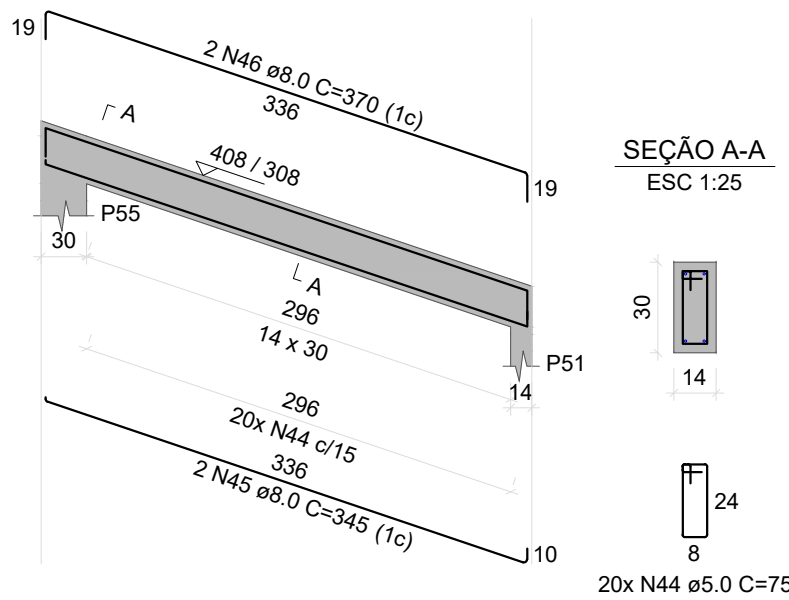
VC10

ESC 1:50



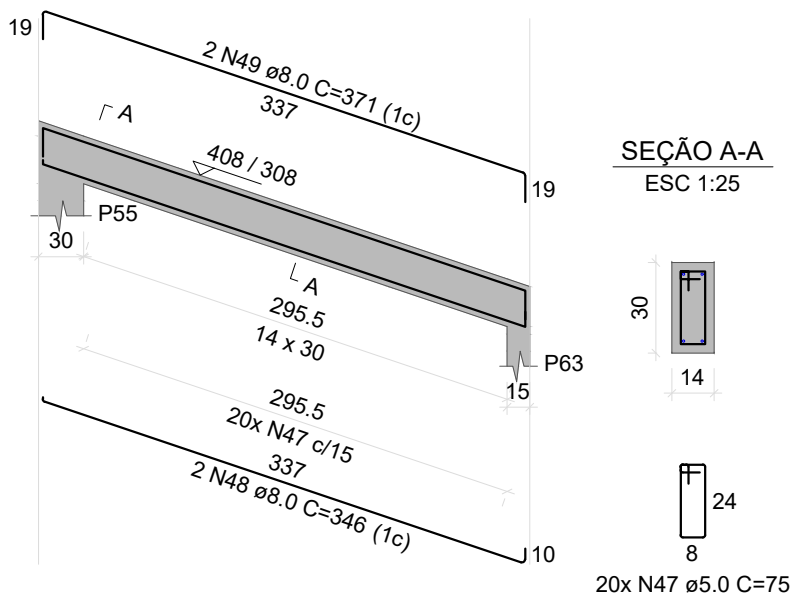
VC13

ESC 1:50



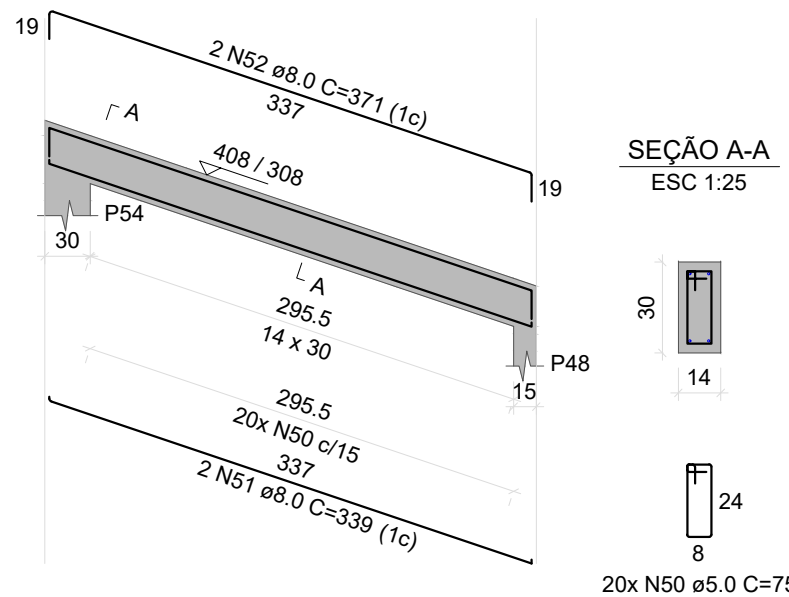
VC14

ESC 1:50



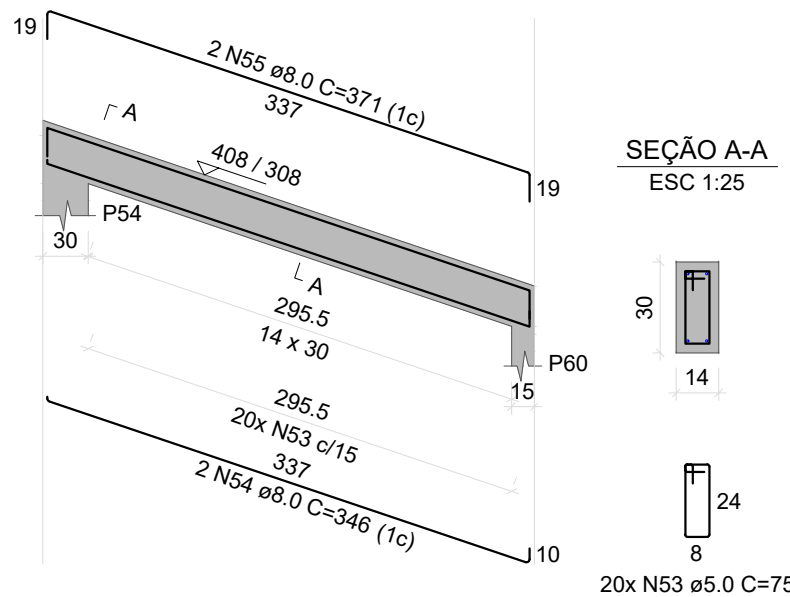
VC15

ESC 1:50



VC16

ESC 1:50



ESTADO DE MATO GROSSO PREFEITURA MUNICIPAL DE BARRA DO GARÇAS CNPJ 03.439.239/0001-50 Rua Carajás, 522 centro - Barra do Garças MT - CEP 78.600-000		 PREFEITURA BARRA DO GARÇAS SECRETARIA DE DESENVOLVIMENTO URBANO E SUSTENTÁVEL	Folha : 12/13
Obra : CONSTRUÇÃO PRÉ-ESCOLA PADRÃO SEDUC - BAIRRO MORADA DO SOL			
Conteúdo : PROJETO ESTRUTURAL DE CONCRETO ARMADO DETALHAMENTO VIGAS			
Local : RUA DOS LÍRIOS, QD.10, MORADA DO SOL, BARRA DO GARÇAS-MT			
Propriedade : Prefeitura Municipal Barra do Garças - MT			
Proprietário: Prefeitura Municipal de Barra do Garças - MT		Autor do projeto: VINICIUS GIRARDI GEISS CREA/MT 57794	
Área Construída: 674,40 m²	Dimensões: -	Escala : INDICADO	
Arquivo : CAD	Data : JUN/2026	Projetista :	

RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xP1	CA60	1	5.0	52	95	4940
	CA50	2	10.0	8	305	2440
65xP2	CA60	3	5.0	1690	75	126750
	CA50	4	10.0	260	305	79300
2xP3	CA60	5	5.0	52	75	3900
	CA50	6	10.0	4	75	300
5xP18	CA60	7	10.0	8	346	2768
	CA60	8	5.0	130	75	9750
P29	CA50	9	10.0	20	346	6920
	CA60	10	5.0	26	23	598
	CA60	11	5.0	26	75	1950
	CA50	12	10.0	2	305	610
15xP44	CA50	13	10.0	4	346	1384
	CA60	14	5.0	390	87	33930
2xP54	CA50	15	10.0	60	305	18300
	CA60	16	5.0	52	77	4004
	CA50	17	10.0	8	346	2768

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	1147.9	96	707.7
CA60	5.0	1858.2	-	286.4
PESO TOTAL (kg)				
CA50	707.7			
CA60	286.4			

Volume de concreto (C-25) = 12.59 m³
Área de forma = 256.26 m²

RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
7xB99	CA60	1	5.0	42	395	16590
	CA60	2	5.0	49	183	8967
	CA50	3	8.0	14	196	2744
2xP3	CA60	4	8.0	28	154	4312
	CA50	5	8.0	28	208	5824
	CA60	6	5.0	16	23	368
3xP19	CA60	7	5.0	16	75	1200
	CA50	8	10.0	12	105	1260
	CA50	9	10.0	8	147	1176
P75	CA60	10	5.0	24	75	1800
	CA50	11	10.0	12	147	1764
	CA60	12	5.0	8	75	600
P89	CA50	13	10.0	4	105	420
	CA50	14	10.0	4	147	588
	CA60	15	5.0	8	23	184
	CA60	16	5.0	8	75	600
	CA50	17	10.0	2	105	210
	CA50	18	10.0	4	147	588

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	128.8	11	50.8
CA60	10.0	60.1	6	37
CA60	5.0	303.1	-	46.7
PESO TOTAL (kg)				
CA50	87.9			
CA60	46.7			

Volume de concreto (C-25) = 3.78 m³
Área de forma = 20.72 m²

RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
83xB92	CA60	1	5.0	415	215	89225
	CA60	2	5.0	332	173	57436
	CA60	3	5.0	8	95	760
P1	CA50	4	10.0	4	142	568
	CA60	5	5.0	504	75	37800
P29	CA50	6	10.0	252	142	35784
	CA60	7	5.0	8	23	184
	CA60	8	5.0	8	75	600
15xP44	CA50	9	10.0	6	142	852
	CA60	10	5.0	120	87	10440
	CA50	11	10.0	60	142	8520
2xP54	CA60	12	5.0	16	77	1232
	CA50	13	10.0	8	142	1136
P64	CA60	14	5.0	8	23	184
	CA60	15	5.0	8	75	600
	CA50	16	10.0	2	100	200
	CA50	17	10.0	4	142	568

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	476.3	40	293.6
CA60	5.0	1984.6	-	305.9
PESO TOTAL (kg)				
CA50	293.6			
CA60	305.9			

Volume de concreto (C-25) = 17.39 m³
Área de forma = 147.10 m²

RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
B5-10	CA60	1	5.0	11	624	6864
	CA50	2	8.0	9	VAR	VAR
	CA50	3	8.0	11	VAR	VAR
	CA50	4	8.0	9	VAR	VAR
	CA50	5	8.0	11	VAR	VAR
P5	CA50	6	8.0	15	324	4860
	CA60	7	5.0	12	95	1140
P10	CA50	8	10.0	4	187	748
	CA60	9	5.0	12	75	900
	CA50	10	10.0	4	187	748

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	108	9	42.6
CA60	10.0	15	2	9.2
CA60	5.0	89	-	13.7
PESO TOTAL (kg)				
CA50	51.8			
CA60	13.7			

Volume de concreto (C-25) = 2.57 m³
Área de forma = 7.44 m²

RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB1	CA60	1	5.0	14	75	1050
	CA50	2	8.0	2	239	478
	CA50	3	8.0	2	267	534
VB2	CA60	4	5.0	34	75	2550
	CA50	5	5.0	2	225	450
	CA50	6	8.0	2	525	1050
VB3	CA50	7	8.0	1	124	124
	CA50	8	8.0	2	184	368
	CA50	9	8.0	1	124	124
VB4	CA50	10	8.0	2	184	368
	CA50	11	5.0	73	75	5475
	CA50	12	8.0	2	974	1948
VB5	CA50	13	8.0	2	303	606
	CA50	14	8.0	2	1110	2220
	CA50	15	8.0	2	159	318
VB6	CA60	16	5.0	105	75	7875
	CA50	17	8.0	2	1048	2096
	CA50	18	8.0	2	644	1288
VB7	CA50	19	8.0	2	1175	2350
	CA50	20	8.0	2	580	1160
	CA60	21	5.0	9	75	675
VB8	CA50	22	8.0	2	172	344
	CA50	23	8.0	2	186	372
	CA60	24	5.0	11	75	825
VB9	CA50	25	8.0	2	192	384
	CA50	26	8.0	2	217	434
	CA60	27	5.0	28	75	2100
VB10	CA50	28	8.0	2	475	950
	CA50	29	8.0	2	481	962
	CA60	30	5.0	12	85	1020
VB11	CA60	31	8.0	2	225	450
	CA50	32	8.0	2	263	526
	CA60	33	5.0	11	75	825
VB12	CA60	34	8.0	2	192	384
	CA50	35	8.0	2	217	434
	CA60	36	5.0	34	75	2550
VB13	CA60	37	5.0	2	325	650
	CA50	38	8.0	1	277	277
	CA50	39	8.0	2	525	1050
VB14	CA50	40	8.0	2	82	164
	CA50	41	8.0	1	124	124
	CA50	42	8.0	1	176	176
VB15	CA50	43	8.0	2	179	358
	CA60	44	5.0	75	75	5625
	CA50	45	8.0	2	931	1862
VB16	CA50	46	8.0	2	346	692
	CA50	47	8.0	2	1110	2220
	CA60	48	8.0	2	175	350
VB17	CA60	49	5.0	138	75	10350
	CA50	50	8.0	2	1058	2112
	CA50	51	8.0	2	1050	2100
VB18	CA50	52	8.0	2	159	318
	CA50	53	8.0	2	1175	2350
	CA50	54	8.0	2	1111	2222
VB19	CA60	55	5.0	177	85	15045
	CA60	56	5.0	2	240	480
	CA50	57	8.0	2	851	1702
VB20	CA50	58	8.0	2	830	1660
	CA50	59	8.0	2	890	1780
	CA50	60	8.0	2	831	1662
VB21	CA50	61	8.0	1	172	172
	CA60	62	8.0	4	1175	4700
	CA50	63	8.0	2	724	1448
VB22	CA50	64	8.0	1	152	152
	CA50	65	8.0	2	225	450
	CA50	66	8.0	2	1110	2220
VB23	CA50	67	8.0	2	1175	2350
	CA50	68	8.0	2	1000	2000
	CA50	69	8.0	2	207	414
VB24	CA50	70	8.0	2	109	218
	CA50	71	8.0	2	668	1336
	CA50	72	5.0	52	75	3900
VB25	CA50	73	8.0	2	813	1626
	CA50	74	8.0	2	841	1682
	CA50	75	5.0	51	75	3825
VB26	CA60	76	5.0	7	85	365
	CA50	77	8.0	2	839	1678
	CA50	78	8.0	1	69	69
VB27	CA60	79	8.0	2	169	338
	CA50	80	8.0	2	976	1952
	CA50	81	8.0	1	89	89
VB28	CA60	82	8.0	2	184	368
	CA60	83	5.0	39	75	2925
	CA50	84	8.0	2	632	1264
VB29	CA50	85	8.0	2	659	1318
	CA50	86	8.0	2	659	1318
	CA50	87	8.0	2	659	1318
VB30	CA50	88	8.0	2	659	1318
	CA50	89	8.0	2	659	1318
	CA50	90	8.0	2	659	1318
VB31	CA50	91	8.0	2	659	1318
	CA50	92	8.0	2	659	1318
	CA50	93	8.0	2	659	1318
VB32	CA50	94	8.0	2	659	1318
	CA50	95	8.0	2	659	1318
	CA50	96	8.0	2	659	1318
VB33	CA50	97	8.0	2	659	1318
	CA50	98	8.0	2	659	1318
	CA50	99	8.0	2	659	1318
VB34	CA50	100	8.0	2	659	1318
	CA50	101	8.0	2	659	1318