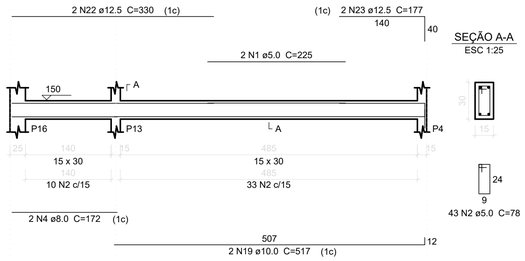
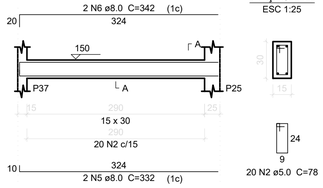
VB30
ESC 1:50



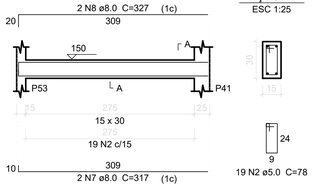
SEÇÃO A-A
ESC 1:25

VB31
ESC 1:50



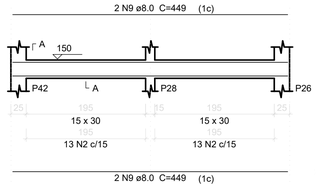
SEÇÃO A-A
ESC 1:25

VB32
ESC 1:50



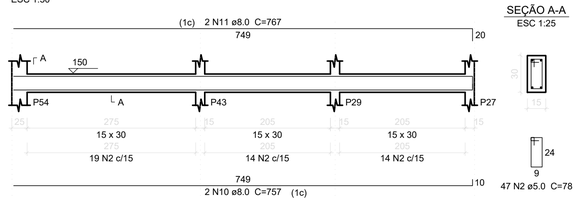
SEÇÃO A-A
ESC 1:25

VB33
ESC 1:50



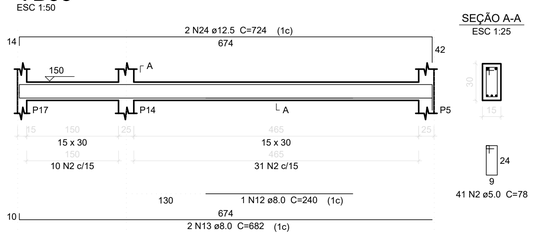
SEÇÃO A-A
ESC 1:25

VB34
ESC 1:50



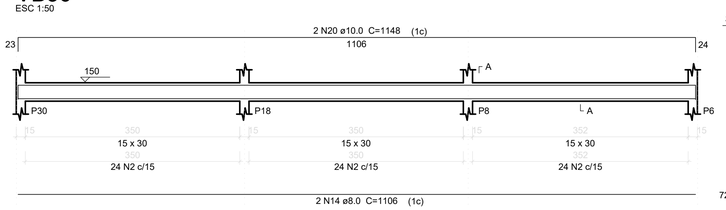
SEÇÃO A-A
ESC 1:25

VB35
ESC 1:50

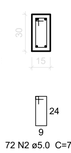


SEÇÃO A-A
ESC 1:25

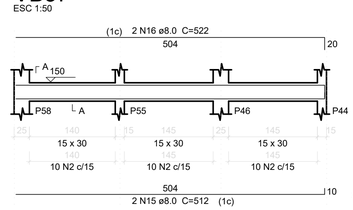
VB36
ESC 1:50



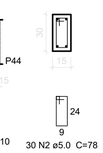
SEÇÃO A-A
ESC 1:25



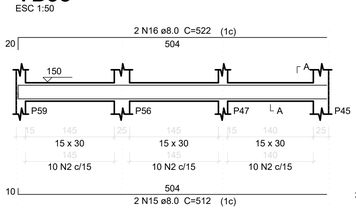
VB37
ESC 1:50



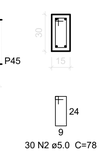
SEÇÃO A-A
ESC 1:25



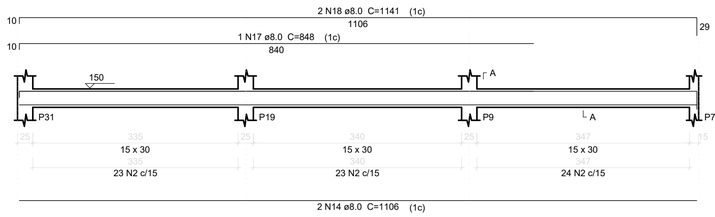
VB38
ESC 1:50



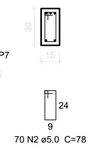
SEÇÃO A-A
ESC 1:25



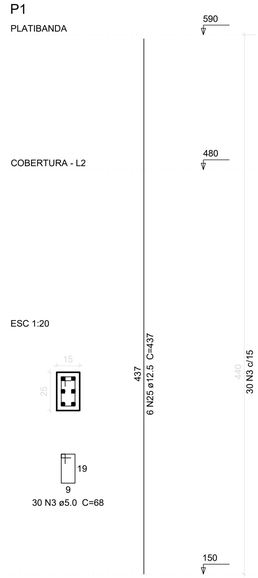
VB39
ESC 1:50



SEÇÃO A-A
ESC 1:25



P1
PLATIBANDA



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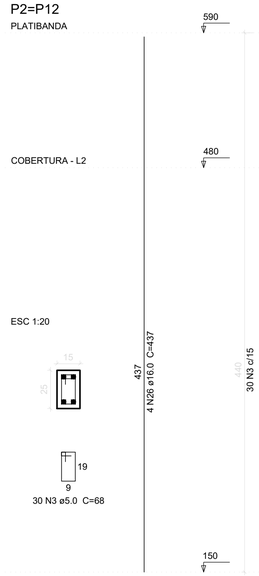

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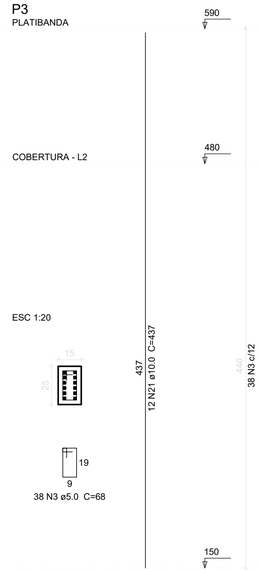
PLATIBANDA



P4
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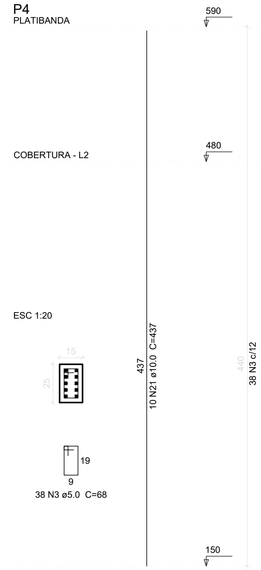

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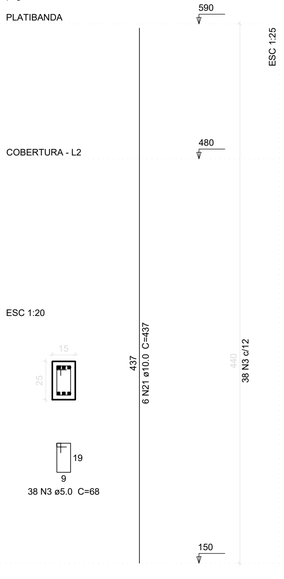
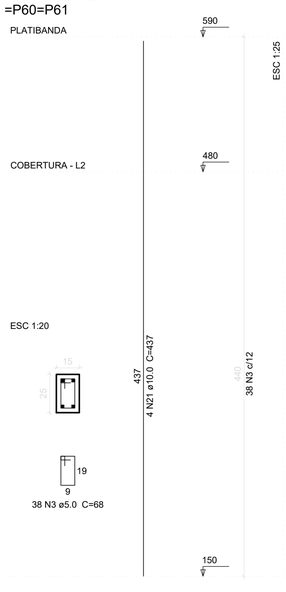
P5
PLATIBANDA





P10
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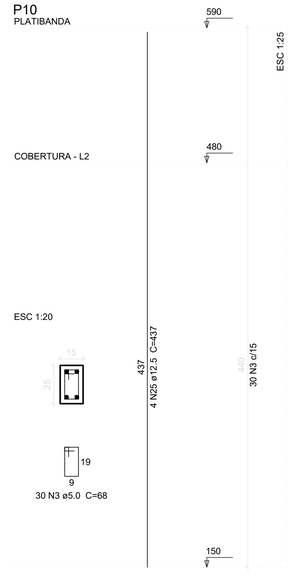

P11
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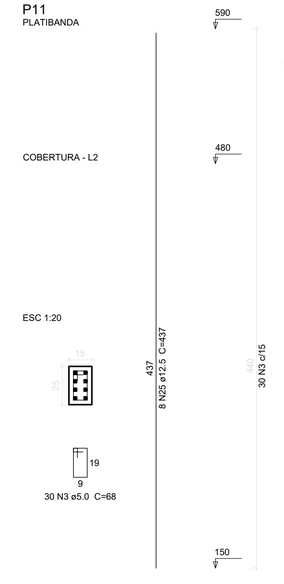

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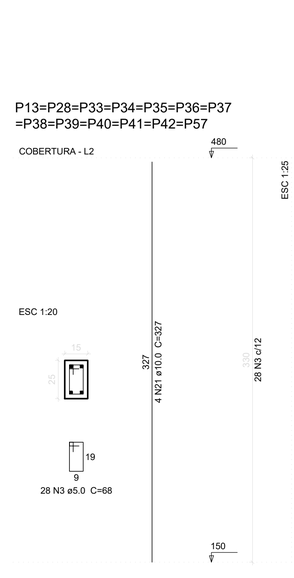

P14
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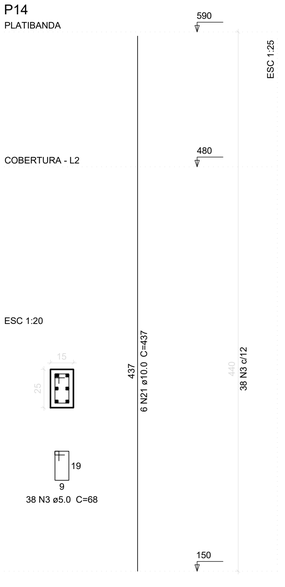

Relação do aço

Cobertura:	P1	2xP2
	P3	P4
	P5	39xP6
	P10	P11
	P14	13xP13
Fundação:	VB30	VB31
	VB32	VB33
	VB34	VB35
	VB36	VB37
	VB38	VB39

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	225	450
	2	5.0	398	78	31044
	3	5.0	1678	68	146064
CA50	4	8.0	2	172	344
	5	8.0	2	332	664
	6	8.0	2	342	684
	7	8.0	2	317	634
	8	8.0	2	327	654
	9	8.0	4	449	1796
	10	8.0	2	757	1514
	11	8.0	2	767	1534
	12	8.0	1	240	240
	13	8.0	2	682	1364
	14	8.0	4	1106	4424
	15	8.0	4	512	2048
	16	8.0	4	522	2088
	17	8.0	1	848	848
	18	8.0	2	1141	2282
	19	10.0	2	517	1034
	20	10.0	2	1148	2296
	21	10.0	242	437	100034
	22	12.5	2	330	660
	23	12.5	2	177	354
	24	12.5	2	724	1448
	25	12.5	18	437	7866
	26	16.0	8	437	3496

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	211.2	91.7
	10.0	1033.7	701.57
	12.5	103.3	109.42
	16.0	35	60.7
CA60	5.0	1775.6	300.78

PESO TOTAL (kg)	
CA50	1264.17
CA60	300.78

Volume de concreto (C-25) = 12.44 m³
Área de forma = 209.48 m²

gov.br Documento assinado digitalmente
CRISTIANO CASARINO
Data: 27/01/2026 15:13:12-0300
Verifique em https://validar.iti.gov.br

gov.br Documento assinado digitalmente
KESLLEY ANTONIO DE ALMEIDA DORNELAS
Data: 26/01/2026 15:48:10-0300
Verifique em https://validar.iti.gov.br

Secretaria Municipal de Infraestrutura
Rodovia BR-354 Km 558
Campo Belo - MG
Tel: (35)3831-4150
E-mail: smp.engenharia@gmail.com
site: www.campobelo.mg.gov.br

OBRA: CANIL E PRONTO ATENDIMENTO VETERINÁRIO MUNICIPAL		FOLHA: 06/11
GESTOR: –	GIGOV: –	
PROGRAMA: –	Nº OPERAÇÃO: –	Nº SICONV: –
ENDEREÇO: ESTRADA MUNICIPAL DARUICHE ELIAS LASMAR		
PROPRIETÁRIO: PREFEITURA MUNICIPAL DE CAMPO BELO — Secretário Municipal de Infraestrutura – Cristiano Casarino		CNPJ: 18.659.334/0001-37
AUTOR DO PROJETO: KESLLEY ANTONIO DE ALMEIDA DORNELAS — Engenheiro Civil		CREA – MG: 321241/D-MG
DESENHO: KESLLEY ANTONIO DE ALMEIDA DORNELAS		
CONTEÚDO: ESTRUTURAL – VIGAS E PILARES	REVISÃO: 0	ESCALA: INDICADA
UNIDADE: METROS	DATA: AGO / 2025	