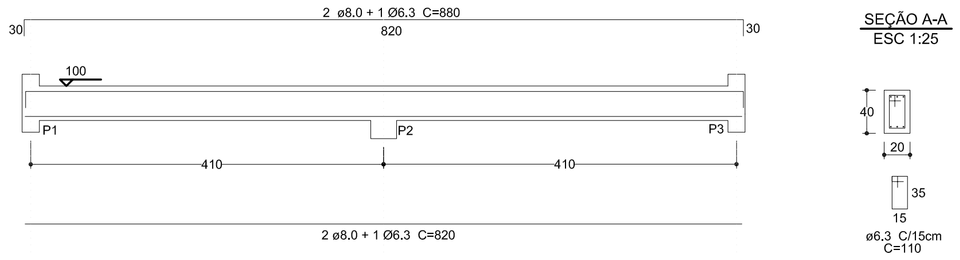
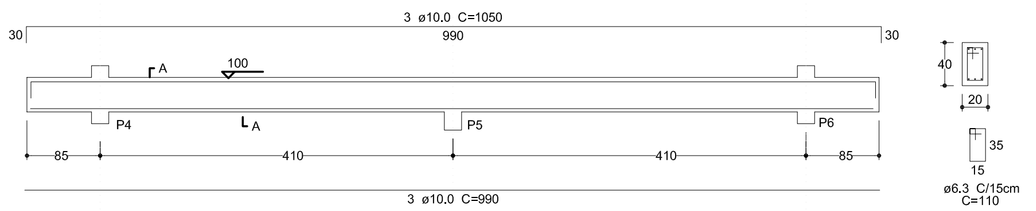
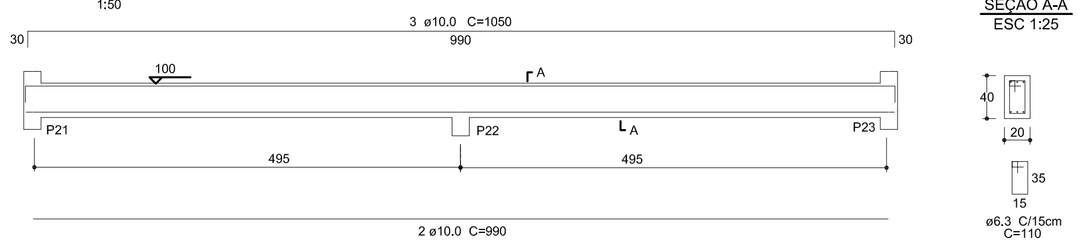
V 201
1:50



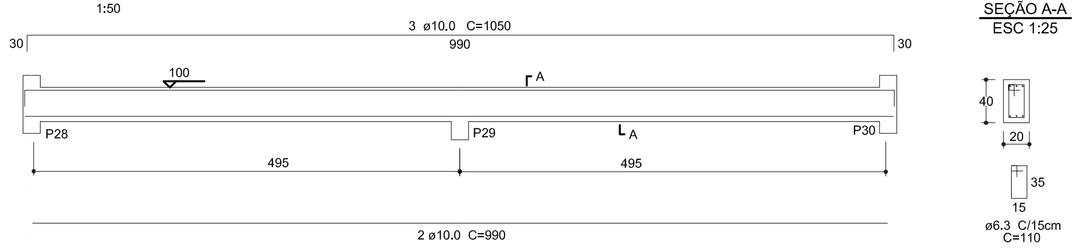
V 202
1:50



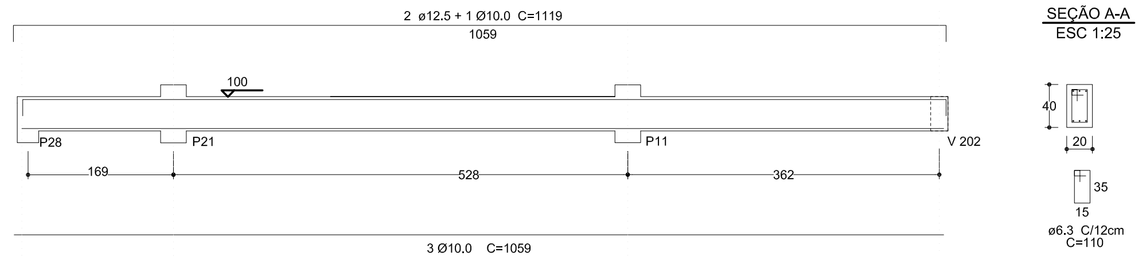
V 203
1:50



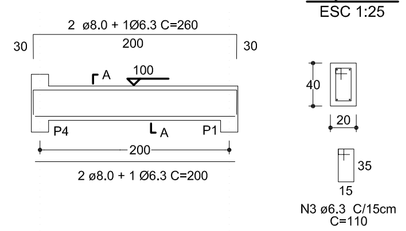
V 204
1:50



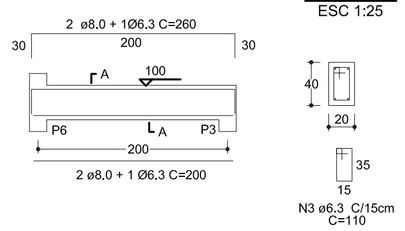
V 205
1:50



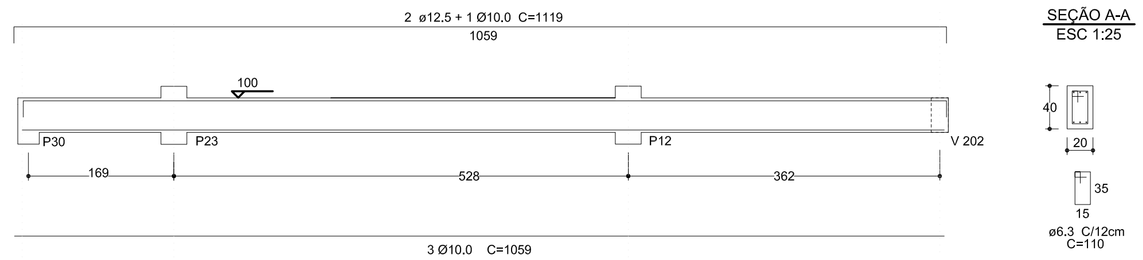
V 206
1:50



V 207
1:50



V 208
1:50



POLEGADA	(mm)	(cm2)	KG/m	
3/16"	5.0	0,1781	0,14	0.43
1/4"	6.3	0,3167	0,25	0.57
5/16"	8.0	0,4948	0,39	0.71
3/8"	10.0	0,7126	0,56	0.86
1/2"	12.5	1,2668	0,99	1.14
5/8"	16.0	1,9793	1,55	1.43
3/4"	20.0	2,8502	2,24	1.71

ACO CA-50B

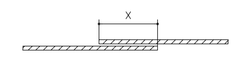
FCK = 250 Kg/CM2 ou 25 MPA

CONCRETO:

1 : 2 : 3 : 0.7

CIMENTO AREIA BRITA ÁGUA

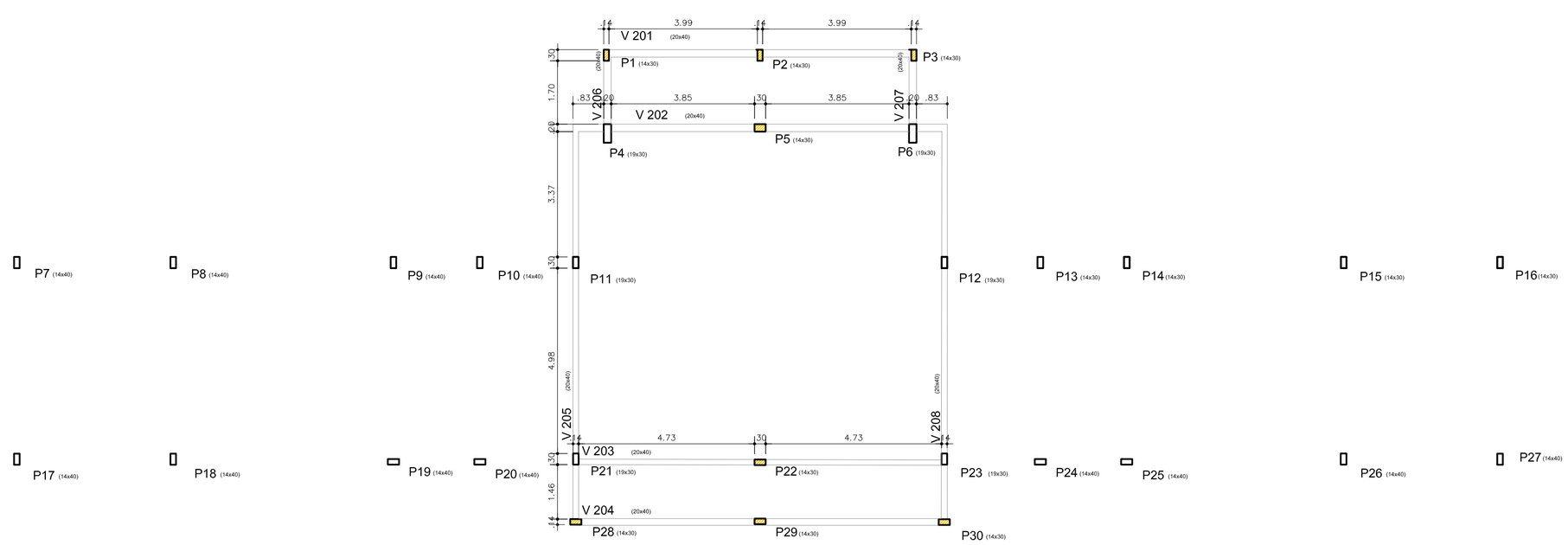
DESFORMA 28 DIAS APOS CONCRETAGEM



POLEGADA	TRANSPASSE (X)
3/16"	40 cm
1/4"	50 cm
5/16"	60 cm
3/8"	80 cm
1/2"	100 cm
5/8"	160 cm
3/4"	200 cm

PILAR MORRE

PILAR SEGUE



PLANTA DE FORMA
PISO PALCO
ESCALA 01:100

Resumo do aço-VIGAS 200

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6,3	545,94	133,75
CA50	8,0	52,40	20,70
CA50	10,0	249,72	154,08
CA50	12,5	44,76	43,10

PESO TOTAL (kg)	
CA50	351,63

Volume de concreto (C-30) = 4.61m³

Forma = 57.64m²

alterações de projeto			
01	Alteração da Fundação.	data: 03/1/21	
02		data	
03		data	
04		data	
05		data	

áreas		
existente	construção	total
2,000	243,80	2,243,80

autor do projeto: Eng. Edgar Francisco dos Santos, Eng.(a) Ursula Chen Elias Cunha — assinatura

verificação — assinatura

conjunto: Eng. Civil

escala: indicadas

data: janeiro de 2020

proprietário: Prefeitura Municipal de Bueno Brandão

projeto: Quadra Poliesportiva - Ampliação dos banheiros

endereço: Ver. Luiz Coutinho da Rocha s/n

assunto: Estrutural

Prefeitura Municipal de Bueno Brandão.

Silvio Antonio Felix
Prefeito Municipal

Edgar Francisco dos Santos
Eng. Civil - Crea-MG 206.582/D