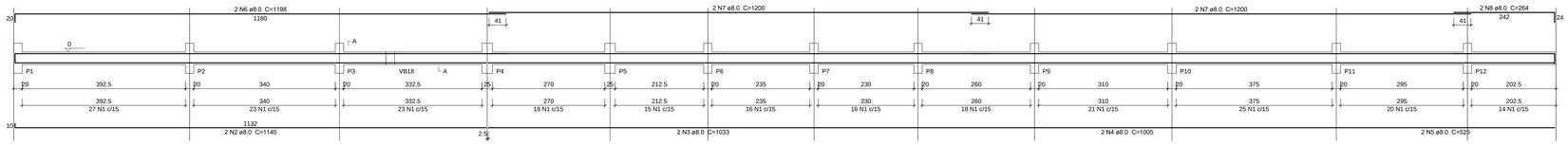
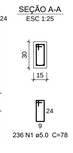
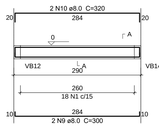
VB1
ESC 1:50



SEÇÃO A-A
ESC 1:25

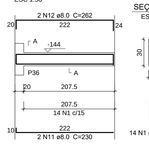


VB2
ESC 1:50

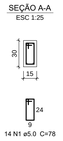


SEÇÃO A-A
ESC 1:25

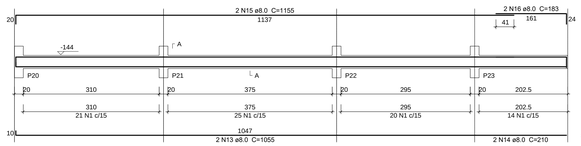
VB5
ESC 1:50



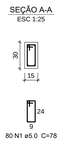
SEÇÃO A-A
ESC 1:25



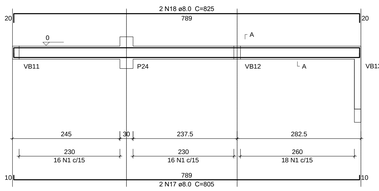
VB3
ESC 1:50



SEÇÃO A-A
ESC 1:25

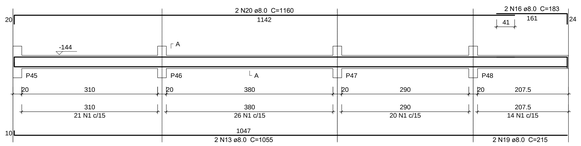


VB4
ESC 1:50

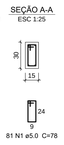


SEÇÃO A-A
ESC 1:25

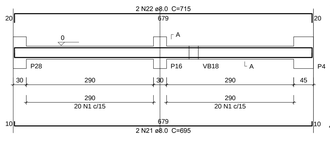
VB7
ESC 1:50



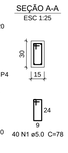
SEÇÃO A-A
ESC 1:25



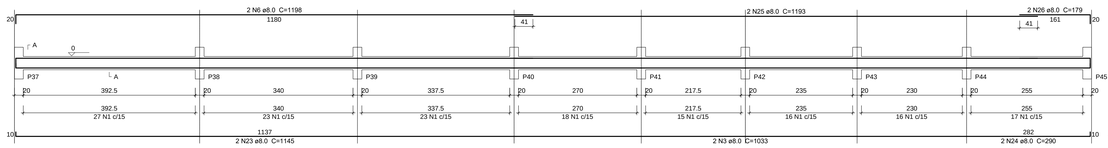
VB9
ESC 1:50



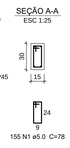
SEÇÃO A-A
ESC 1:25



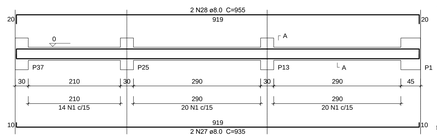
VB6
ESC 1:50



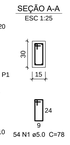
SEÇÃO A-A
ESC 1:25



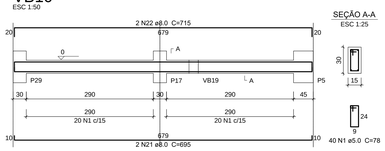
VB8
ESC 1:50



SEÇÃO A-A
ESC 1:25

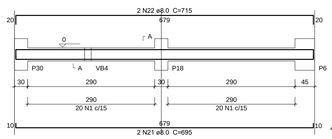


VB10
ESC 1:50

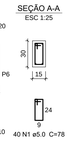


SEÇÃO A-A
ESC 1:25

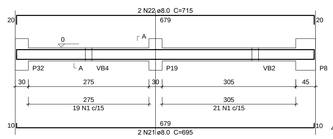
VB11
ESC 1:50



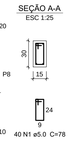
SEÇÃO A-A
ESC 1:25



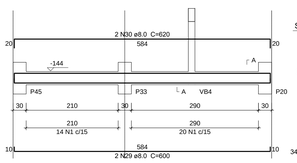
VB12
ESC 1:50



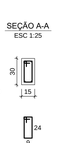
SEÇÃO A-A
ESC 1:25



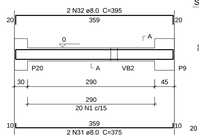
VB13
ESC 1:50



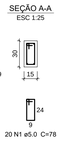
SEÇÃO A-A
ESC 1:25



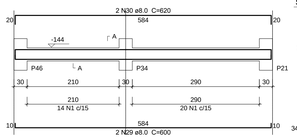
VB14
ESC 1:50



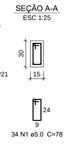
SEÇÃO A-A
ESC 1:25



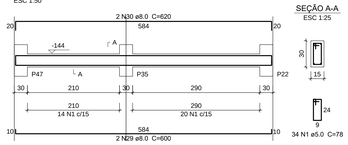
VB15
ESC 1:50



SEÇÃO A-A
ESC 1:25

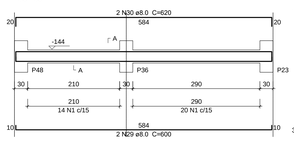


VB16
ESC 1:50



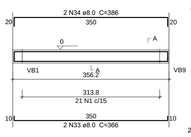
SEÇÃO A-A
ESC 1:25

VB17
ESC 1:50



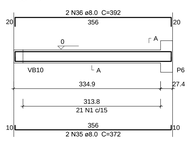
SEÇÃO A-A
ESC 1:25

VB18
ESC 1:50

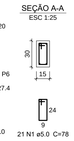


SEÇÃO A-A
ESC 1:25

VB19
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

VB1	VB2	VB3
VB4	VB5	VB6
VB7	VB8	VB9
VB10	VB11	VB12
VB13	VB14	VB15
VB16	VB17	VB18
VB19		

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1046	78	81588
CA50	2	8.0	2	1140	2280
	3	8.0	4	1033	4132
	4	8.0	2	1005	2010
	5	8.0	2	525	1050
	6	8.0	4	1198	4792
	7	8.0	4	1200	4800
	8	8.0	2	264	528
	9	8.0	2	300	600
	10	8.0	2	320	640
	11	8.0	2	230	460
	12	8.0	2	262	524
	13	8.0	4	1055	4220
	14	8.0	2	210	420
	15	8.0	2	1155	2310
	16	8.0	4	183	732
	17	8.0	2	805	1610
	18	8.0	2	825	1650
	19	8.0	2	215	430
	20	8.0	2	1160	2320
	21	8.0	8	695	5560
	22	8.0	8	715	5720
	23	8.0	2	1145	2290
	24	8.0	2	290	580
	25	8.0	2	1193	2386
	26	8.0	2	179	358
	27	8.0	2	935	1870
	28	8.0	2	955	1910
	29	8.0	8	600	4800
	30	8.0	8	620	4960
	31	8.0	2	375	750
	32	8.0	2	395	790
	33	8.0	2	366	732
	34	8.0	2	386	772
	35	8.0	2	372	744
	36	8.0	2	392	784

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	705.2	306.1
CA60	5.0	815.9	138.3
PESO TOTAL (kg)			
CA50	306.1		
CA60	138.3		

Volume de concreto (C-25) = 7.7 m³
Área de forma = 128.35 m²

PROJETO ESTRUTURAL

UTILIZAÇÃO: ESPECIAL

ENDEREÇO DA OBRA: RUA JOÃO FREIRE FILHO, Nº 155, CENTRO, IMBITUVA, PARANÁ.

BETO Engenharia

RESPONSÁVEL TÉCNICO:
LUIZ ROBERTO PENTEADO JR
ENGENHEIRO CIVIL CREA-PR-137.732/D

PROPRIETÁRIO:
MUNICÍPIO DE IMBITUVA
CNPJ: 76.175.802/0001-23

REF.: ARMAÇÃO DE VIGAS B

DATA:	ARQUIVO:	ESCALA:	UNIDADE:	DESENHO:	FOLHA:
13/08/2021	2021-031	INDICADA	METRO	BETO	03/11