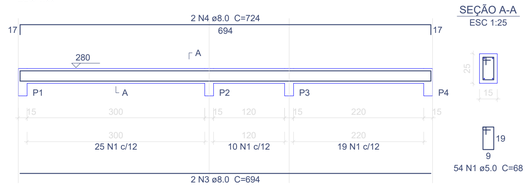
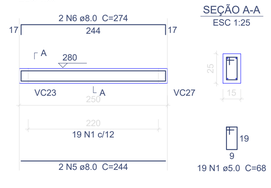
VC1
ESC 1:50



SEÇÃO A-A
ESC 1:25

54 N1 ø5.0 C=68

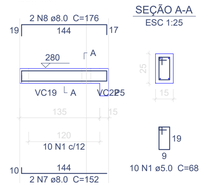
VC2
ESC 1:50



SEÇÃO A-A
ESC 1:25

19 N1 ø5.0 C=68

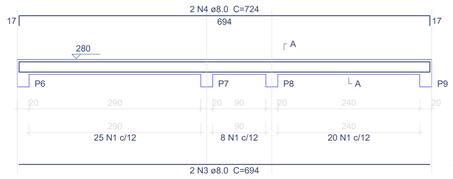
VC3
ESC 1:50



SEÇÃO A-A
ESC 1:25

10 N1 ø5.0 C=68

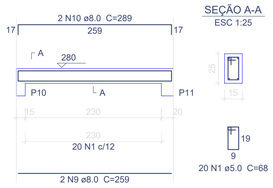
VC4
ESC 1:50



SEÇÃO A-A
ESC 1:25

53 N1 ø5.0 C=68

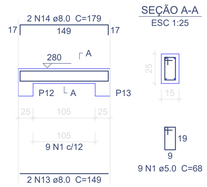
VC5
ESC 1:50



SEÇÃO A-A
ESC 1:25

20 N1 ø5.0 C=68

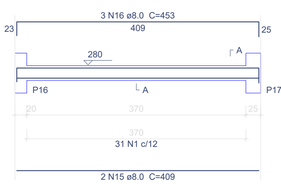
VC6
ESC 1:50



SEÇÃO A-A
ESC 1:25

9 N1 ø5.0 C=68

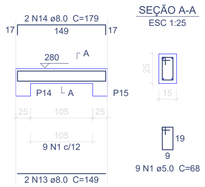
VC7
ESC 1:50



SEÇÃO A-A
ESC 1:25

31 N1 ø5.0 C=68

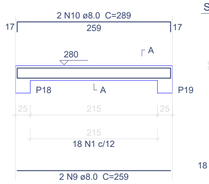
VC8
ESC 1:50



SEÇÃO A-A
ESC 1:25

9 N1 ø5.0 C=68

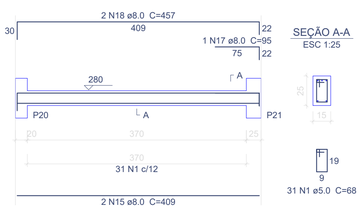
VC9
ESC 1:50



SEÇÃO A-A
ESC 1:25

18 N1 ø5.0 C=68

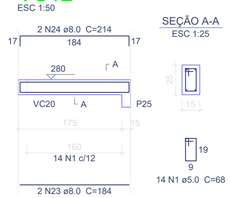
VC10
ESC 1:50



SEÇÃO A-A
ESC 1:25

31 N1 ø5.0 C=68

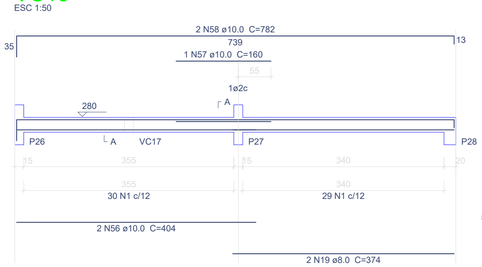
VC12
ESC 1:50



SEÇÃO A-A
ESC 1:25

14 N1 ø5.0 C=68

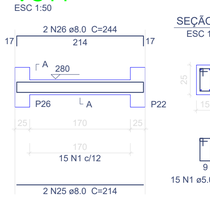
VC13
ESC 1:50



SEÇÃO A-A
ESC 1:25

59 N1 ø5.0 C=68

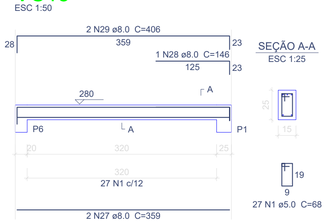
VC14
ESC 1:50



SEÇÃO A-A
ESC 1:25

15 N1 ø5.0 C=68

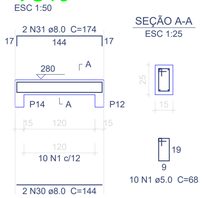
VC15
ESC 1:50



SEÇÃO A-A
ESC 1:25

27 N1 ø5.0 C=68

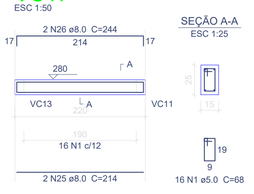
VC16
ESC 1:50



SEÇÃO A-A
ESC 1:25

10 N1 ø5.0 C=68

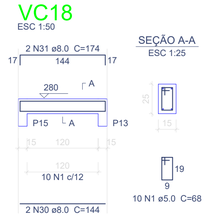
VC17
ESC 1:50



SEÇÃO A-A
ESC 1:25

16 N1 ø5.0 C=68

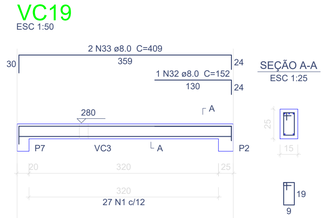
VC18
ESC 1:50



SEÇÃO A-A
ESC 1:25

10 N1 ø5.0 C=68

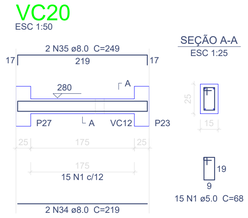
VC19
ESC 1:50



SEÇÃO A-A
ESC 1:25

27 N1 ø5.0 C=68

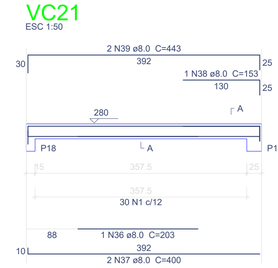
VC20
ESC 1:50



SEÇÃO A-A
ESC 1:25

15 N1 ø5.0 C=68

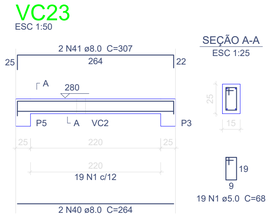
VC21
ESC 1:50



SEÇÃO A-A
ESC 1:25

30 N1 ø5.0 C=68

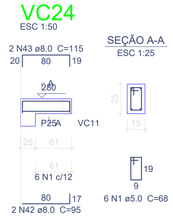
VC23
ESC 1:50



SEÇÃO A-A
ESC 1:25

19 N1 ø5.0 C=68

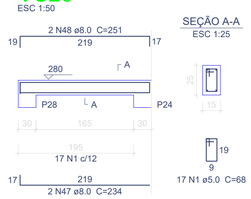
VC24
ESC 1:50



SEÇÃO A-A
ESC 1:25

6 N1 ø5.0 C=68

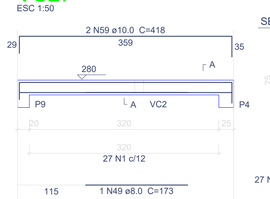
VC26
ESC 1:50



SEÇÃO A-A
ESC 1:25

17 N1 ø5.0 C=68

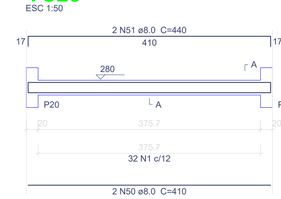
VC27
ESC 1:50



SEÇÃO A-A
ESC 1:25

27 N1 ø5.0 C=68

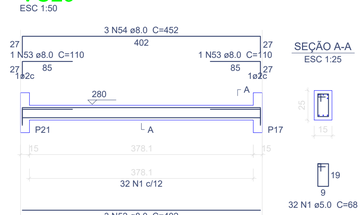
VC28
ESC 1:50



SEÇÃO A-A
ESC 1:25

32 N1 ø5.0 C=68

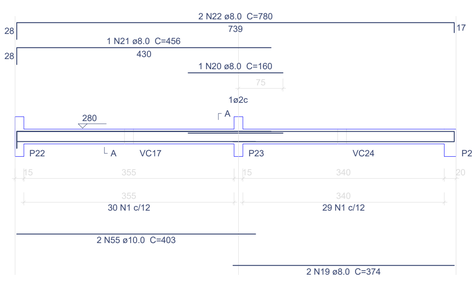
VC29
ESC 1:50



SEÇÃO A-A
ESC 1:25

32 N1 ø5.0 C=68

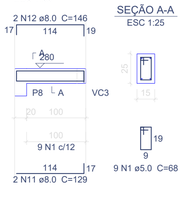
VC11
ESC 1:50



SEÇÃO A-A
ESC 1:25

59 N1 ø5.0 C=68

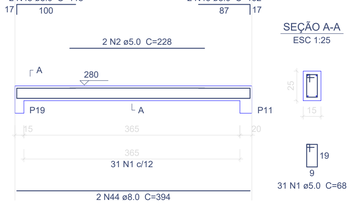
VC22
ESC 1:50



SEÇÃO A-A
ESC 1:25

9 N1 ø5.0 C=68

VC25
ESC 1:50



SEÇÃO A-A
ESC 1:25

31 N1 ø5.0 C=68

Relação do aço

VC1	VC2	VC3
VC4	VC5	VC6
VC7	VC8	VC9
VC10	VC11	VC12
VC13	VC14	VC15
VC16	VC17	VC18
VC19	VC20	VC21
VC22	VC23	VC24
VC25	VC26	VC27
VC28	VC29	

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	709	68	48212
	2	5.0	2	228	456
CA50	3	8.0	4	694	2776
	4	8.0	4	724	2896
	5	8.0	2	244	488
	6	8.0	2	274	548
	7	8.0	2	152	304
	8	8.0	2	176	352
	9	8.0	4	259	1036
	10	8.0	4	289	1156
	11	8.0	2	129	258
	12	8.0	2	146	292
	13	8.0	4	149	596
	14	8.0	4	179	716
	15	8.0	4	409	1636
	16	8.0	3	453	1359
	17	8.0	1	95	95
	18	8.0	2	457	914
	19	8.0	4	374	1496
	20	8.0	1	160	160
	21	8.0	1	456	456
	22	8.0	2	780	1560
	23	8.0	2	184	368
	24	8.0	2	214	428
	25	8.0	4	214	856
	26	8.0	4	244	976
	27	8.0	6	359	2154
	28	8.0	1	146	146
	29	8.0	2	406	812
	30	8.0	4	144	576
	31	8.0	4	174	696
	32	8.0	1	152	152
	33	8.0	2	409	818
	34	8.0	2	219	438
	35	8.0	2	249	498
	36	8.0	1	203	203
	37	8.0	2	400	800
	38	8.0	1	153	153
	39	8.0	2	443	886
	40	8.0	2	264	528
	41	8.0	2	307	614
	42	8.0	2	95	190
	43	8.0	2	115	230
	44	8.0	2	394	788
	45	8.0	2	115	230
	46	8.0	2	102	204
	47	8.0	2	234	468
	48	8.0	2	251	502
	49	8.0	1	173	173
	50	8.0	2	410	820
	51	8.0	2	440	880
	52	8.0	3	402	1206
	53	8.0	2	110	220
	54	8.0	3	452	1356
	55	10.0	2	403	806
	56	10.0	2	404	808
	57	10.0	1	160	160
	58	10.0	2	782	1564
	59	10.0	2	418	836

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	384.7	166.9
	10.0	41.8	28.3
CA60	5.0	486.7	82.5

PESO TOTAL (kg)	
CA50	195.3
CA60	82.5

Volume de concreto (C-25) = 3.57 m³
Área de forma = 61.96 m²

OBRA:
REFORMA - UBS
CERRADO DA ROSEIRA | ÁREA RURAL
PROJETO ESTRUTURAL - REFORMA

Prefeitura Municipal de Jaguariaíva
Praça Izabel Branco 142 - Cidade Alta - Fone (43) 3535-9400 - Fax (43) 3535-9400
Jaguariaíva -PR - CEP: 84.200-000 - CNPJ 76.910.900/0001-38
Secretaria Municipal de Infraestrutura e Habitação

GESTÃO
2013-2016
JOSÉ SLOBODA
PREFEITO MUNICIPAL

TÍTULO: LOCAÇÃO - BLOCOS - PILARES - VIGAS BALDRAMES

RESPONSÁVEL TÉCNICO: Eng. Ana Claudia Krul CREA 69.540/D-PR
DESENHO: Ana Claudia Krul
DATA: AGOSTO.2016
PRANCHA: 05/06
ESCALA: INDICADA