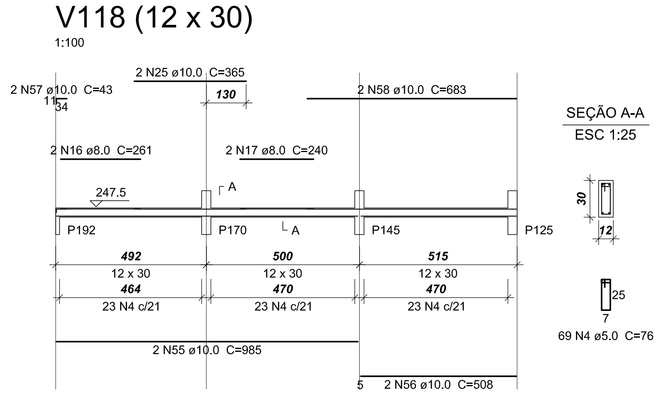
V118 (12 x 30)

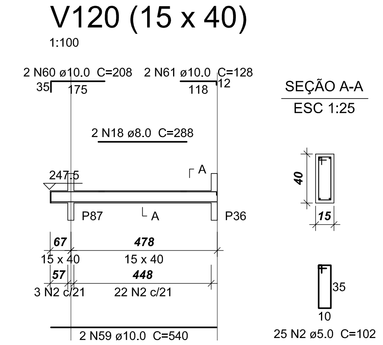
1:100



SEÇÃO A-A
ESC 1:25

V120 (15 x 40)

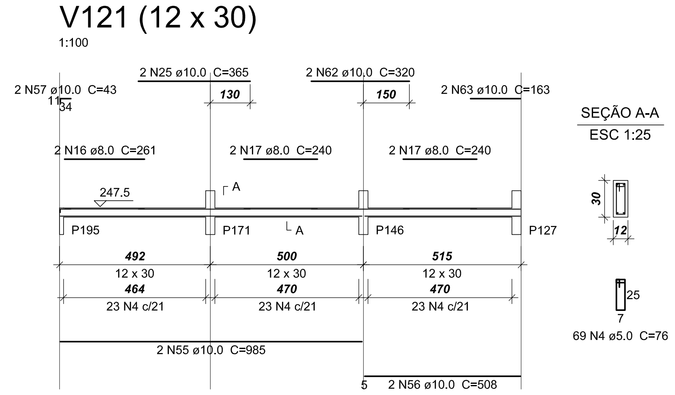
1:100



SEÇÃO A-A
ESC 1:25

V121 (12 x 30)

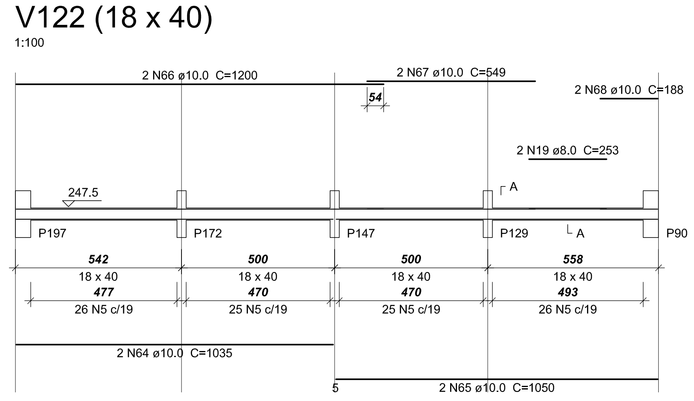
1:100



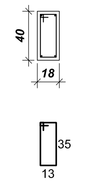
SEÇÃO A-A
ESC 1:25

V122 (18 x 40)

1:100

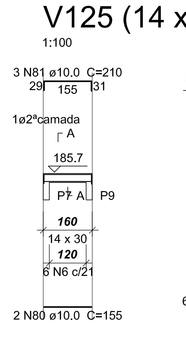


SEÇÃO A-A
ESC 1:25

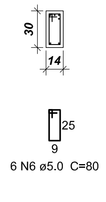


V125 (14 x 30)

1:100



SEÇÃO A-A
ESC 1:25



Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	166	122	20252
	2	5.0	202	102	20604
	3	5.0	25	82	2050
	4	5.0	138	76	10488
	5	5.0	102	108	11016
	6	5.0	32	80	2560
CA50	7	8.0	2	395	790
	8	8.0	2	335	670
	9	8.0	2	438	876
	10	8.0	2	443	886
	11	8.0	2	400	800
	12	8.0	2	337	674
	13	8.0	2	302	604
	14	8.0	2	270	540
	15	8.0	2	737	1474
	16	8.0	4	261	1044
	17	8.0	6	240	1440
	18	8.0	2	288	576
	19	8.0	2	253	506
	20	10.0	1	411	411
	21	10.0	2	747	1494
	22	10.0	2	180	360
	23	10.0	2	240	480
	24	10.0	2	199	398
	25	10.0	5	365	1825
	26	10.0	2	742	1484
	27	10.0	2	187	374
	28	10.0	2	272	544
	29	10.0	1	161	161
	30	10.0	3	231	693
	31	10.0	2	432	864
	32	10.0	6	783	4698
	33	10.0	3	177	531
	34	10.0	2	183	366
	35	10.0	2	243	486
	36	10.0	2	438	876
	37	10.0	2	784	1568
	38	10.0	2	160	320
	39	10.0	1	310	310
	40	10.0	2	478	956
	41	10.0	1	115	220
	42	10.0	1	362	362
	43	10.0	3	783	2349
	44	10.0	1	159	159
	45	10.0	3	219	657
	46	10.0	6	165	990
	47	10.0	2	167	334
	48	10.0	2	206	412
	49	10.0	2	277	554
	50	10.0	2	265	530
	51	10.0	2	275	550
	52	10.0	2	287	574
	53	10.0	1	355	355
	54	10.0	2	761	1522
	55	10.0	4	985	3940
	56	10.0	4	508	2032
	57	10.0	4	43	172
	58	10.0	2	683	1366
	59	10.0	2	540	1080
	60	10.0	2	208	416
	61	10.0	2	128	256
	62	10.0	2	320	640
	63	10.0	2	163	326
	64	10.0	2	1035	2070
	65	10.0	2	1050	2100
	66	10.0	2	1200	2400
	67	10.0	2	549	1098
	68	10.0	2	188	376
	69	10.0	2	201	402
	70	10.0	4	243	972
	71	10.0	4	264	1056
	72	10.0	2	228	456
	73	10.0	2	233	466
	74	10.0	1	148	148
	75	10.0	2	272	544
	76	10.0	2	500	1000
	77	10.0	2	532	1064
	78	10.0	2	238	476
	79	10.0	2	257	514
	80	10.0	2	155	310
	81	10.0	3	210	630
	82	12.5	1	180	180
	83	12.5	3	265	795
	84	12.5	3	241	723
	85	12.5	2	321	642
	86	12.5	2	210	420
	87	12.5	2	290	580
	88	12.5	2	204	408
	89	12.5	2	284	568
	90	12.5	2	179	358
	91	12.5	2	264	528
	92	12.5	1	193	193
	93	12.5	2	298	596
	94	12.5	2	531	1062
	95	12.5	2	761	1522
	96	12.5	1	148	148
	97	12.5	2	278	556

Resumo do aço

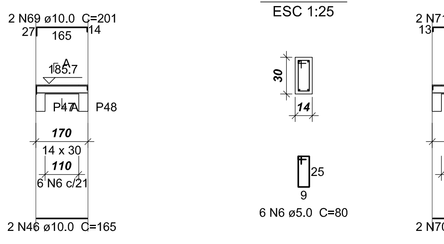
AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	8.0	108.8	42.9
	10.0	550.9	339.6
	12.5	92.8	89.4
CA60	5.0	669.7	103.2
PESO TOTAL			
CA50	472		
CA60	103.2		

Vol. de concreto total (C-30) = 8.95 m³
Área de forma total = 142.26 m²

V118	V120	V121
V122	V123	V124
V125	V126	V127
V128	V129	V130
V131	V132	V133
V134	V135	V136
V137	V138	V139
V140	V141	V142
V143		

V126 (14 x 30)

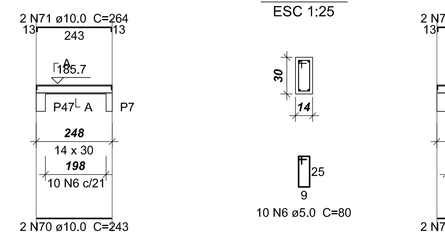
1:100



SEÇÃO A-A
ESC 1:25

V127 (14 x 30)

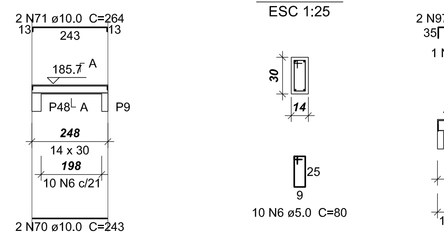
1:100



SEÇÃO A-A
ESC 1:25

V128 (14 x 30)

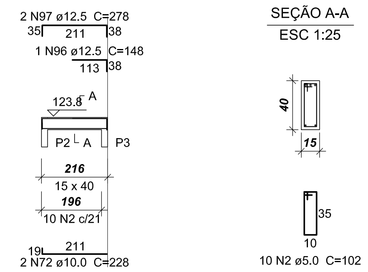
1:100



SEÇÃO A-A
ESC 1:25

V131 (15 x 40)

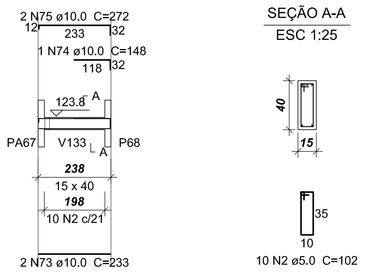
1:100



SEÇÃO A-A
ESC 1:25

V132 (15 x 40)

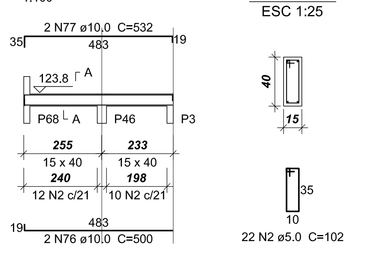
1:100



SEÇÃO A-A
ESC 1:25

V134 (15 x 40)

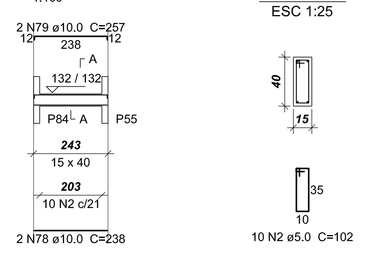
1:100



SEÇÃO A-A
ESC 1:25

V135 (15 x 40)

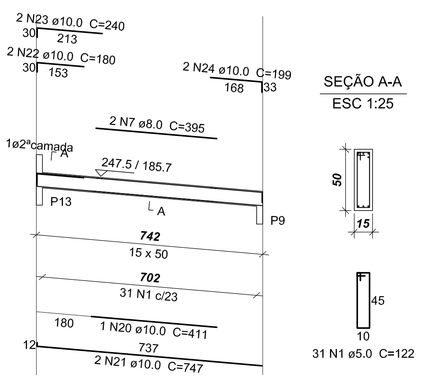
1:100



SEÇÃO A-A
ESC 1:25

V123 (15 x 50)

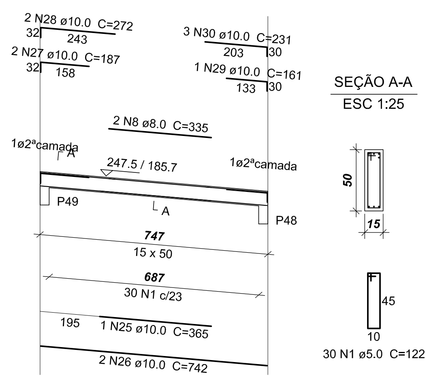
1:100



SEÇÃO A-A
ESC 1:25

V124 (15 x 50)

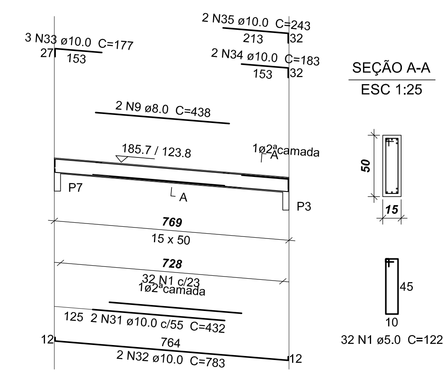
1:100



SEÇÃO A-A
ESC 1:25

V129 (15 x 50)

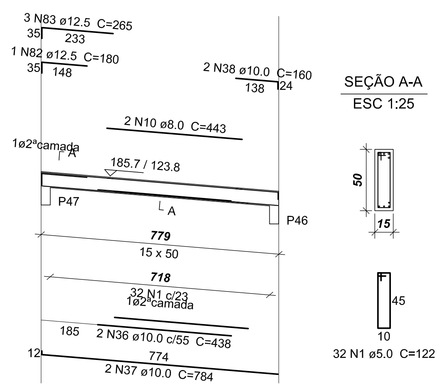
1:100



SEÇÃO A-A
ESC 1:25

V130 (15 x 50)

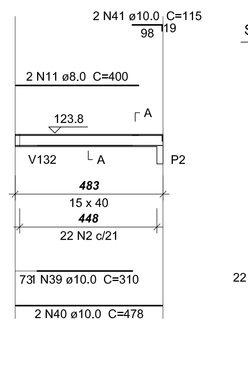
1:100



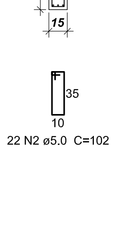
SEÇÃO A-A
ESC 1:25

V133 (15 x 40)

1:100

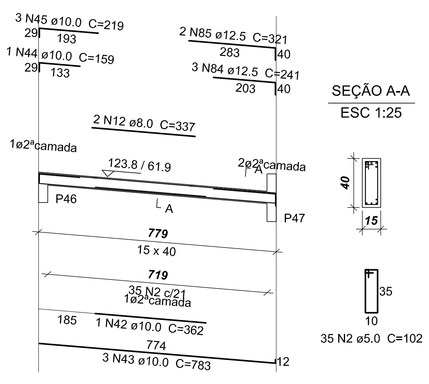


SEÇÃO A-A
ESC 1:25

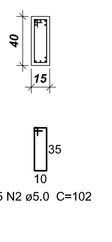


V136 (15 x 40)

1:100

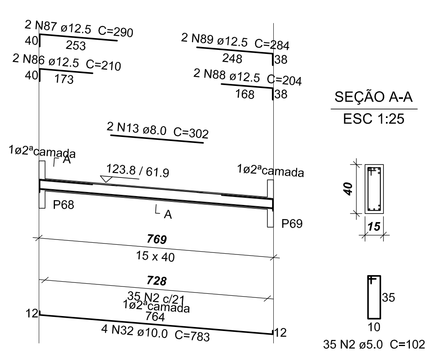


SEÇÃO A-A
ESC 1:25



V137 (15 x 40)

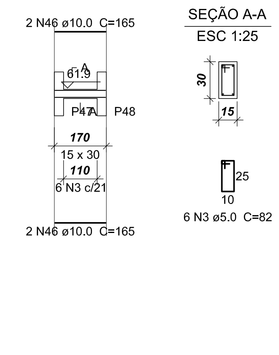
1:100



SEÇÃO A-A
ESC 1:25

V138 (15 x 30)

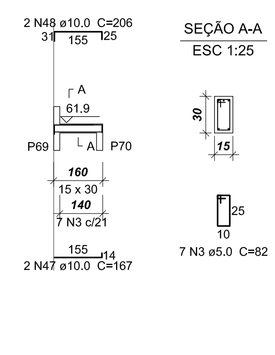
1:100



SEÇÃO A-A
ESC 1:25

V139 (15 x 30)

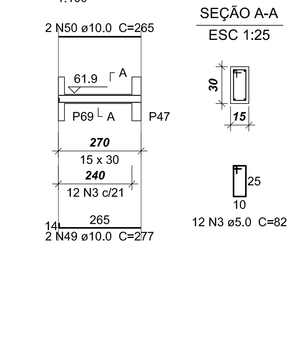
1:100



SEÇÃO A-A
ESC 1:25

V140 (15 x 30)

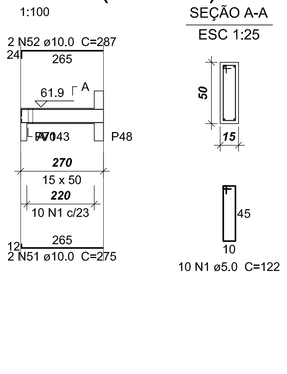
1:100



SEÇÃO A-A
ESC 1:25

V141 (15 x 50)

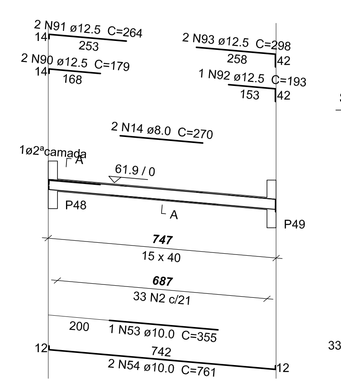
1:100



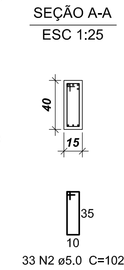
SEÇÃO A-A
ESC 1:25

V142 (15 x 40)

1:100

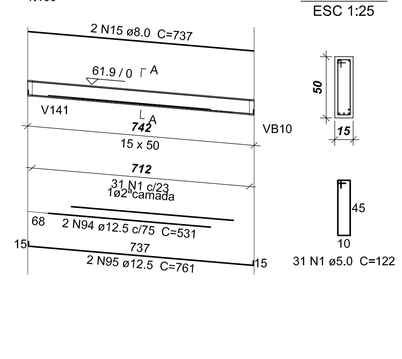


SEÇÃO A-A
ESC 1:25

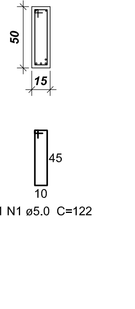


V143 (15 x 50)

1:100



SEÇÃO A-A
ESC 1:25



AS BUILT PROJETOS
Rua Jovino do Rosário, 1564 – Boa Vista
CEP 82560-435 – Curitiba – Paraná

OBRA: GALPÃO DE ENGENHARIA – TEÓFILO OTONI
PROPRIETÁRIO: UNIVERSIDADE DOS VALES DO JEQUITINHONHA E MUCURI – UFVJM
ENDEREÇO: AVENIDA DR. LUIS BOALI PORTO SALMAN, S/Nº – BAIRRO IPIRANGA – TEÓFILO OTONI/MG

PROJETO ESTRUTURAL

REFERÊNCIA: FERREGEM DAS VIGAS:
VIGAS DO PAVIMENTO INTERMEDIÁRIO 1 (2)

PRANCHA: EST 11 /30

ARQUIVO:
DESENHO: CARLOS
DATA: 27/09/2012
ESCALA: INDICADA

AUTOR DO PROJETO :
ENG. CIVIL CARLOS HENRIQUE DE S. GONÇALVES CREA - 7.982-D/PR