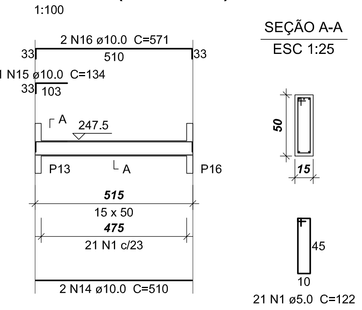
V101 (15 x 50)

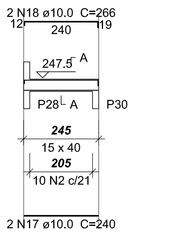
1:100



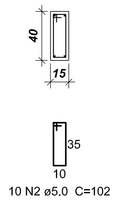
SEÇÃO A-A
ESC 1:25

V102 (15 x 40)

1:100

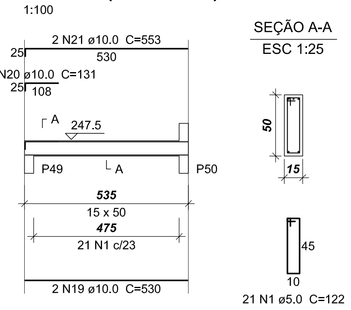


SEÇÃO A-A
ESC 1:25



V103 (15 x 50)

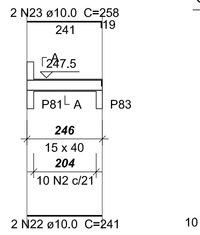
1:100



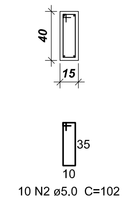
SEÇÃO A-A
ESC 1:25

V104 (15 x 40)

1:100

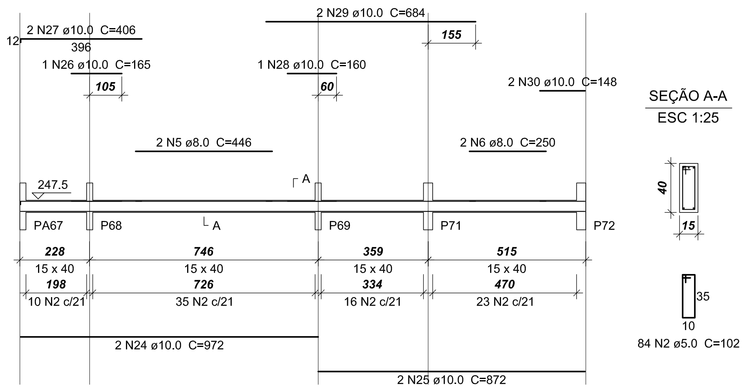


SEÇÃO A-A
ESC 1:25



V105 (15 x 40)

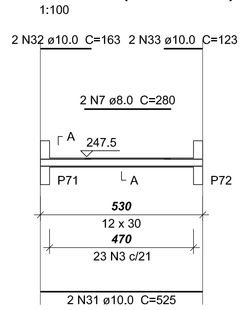
1:100



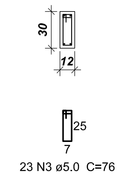
SEÇÃO A-A
ESC 1:25

V108 (12 x 30)

1:100

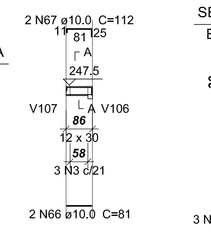


SEÇÃO A-A
ESC 1:25

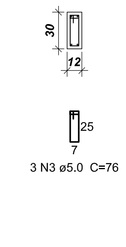


V119 (12 x 30)

1:100



SEÇÃO A-A
ESC 1:25



Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	60	122	7320
	2	5.0	265	102	27030
	3	5.0	581	76	44156
	4	5.0	102	108	11016
CA50	5	8.0	2	446	892
	6	8.0	6	250	1500
	7	8.0	2	280	560
	8	8.0	4	260	1040
	9	8.0	8	240	1920
	10	8.0	2	282	564
	11	8.0	4	261	1044
	12	8.0	2	255	510
	13	8.0	2	256	512
	14	10.0	2	510	1020
	15	10.0	1	134	134
	16	10.0	2	571	1142
	17	10.0	2	240	480
	18	10.0	2	266	532
	19	10.0	2	530	1060
	20	10.0	1	131	131
	21	10.0	2	553	1106
	22	10.0	2	241	482
	23	10.0	2	258	516
	24	10.0	2	972	1944
	25	10.0	2	872	1744
	26	10.0	1	165	165
	27	10.0	2	406	812
	28	10.0	1	160	160
	29	10.0	2	684	1368
	30	10.0	4	148	592
	31	10.0	2	525	1050
	32	10.0	2	163	326
	33	10.0	2	123	246
	34	10.0	4	1008	4032
	35	10.0	4	990	3960
	36	10.0	2	613	1226
	37	10.0	10	1200	12000
	38	10.0	2	654	1308
	39	10.0	2	269	538
	40	10.0	2	648	1296
	41	10.0	4	143	572
	42	10.0	8	300	2400
	43	10.0	2	275	550
	44	10.0	4	1035	4140
	45	10.0	2	1050	2100
	46	10.0	2	957	1914
	47	10.0	4	908	3632
	48	10.0	8	790	6320
	49	10.0	2	1199	2398
	50	10.0	2	487	974
	51	10.0	4	243	972
	52	10.0	2	274	548
	53	10.0	4	985	3940
	54	10.0	6	508	3048
	55	10.0	4	43	172
	56	10.0	2	345	690
	57	10.0	4	683	2732
	58	10.0	2	253	506
	59	10.0	2	365	730
	60	10.0	2	1195	2390
	61	10.0	2	462	924
	62	10.0	2	134	268
	63	10.0	2	133	266
	64	10.0	2	461	922
	65	10.0	2	494	988
	66	10.0	2	81	162
	67	10.0	2	112	224

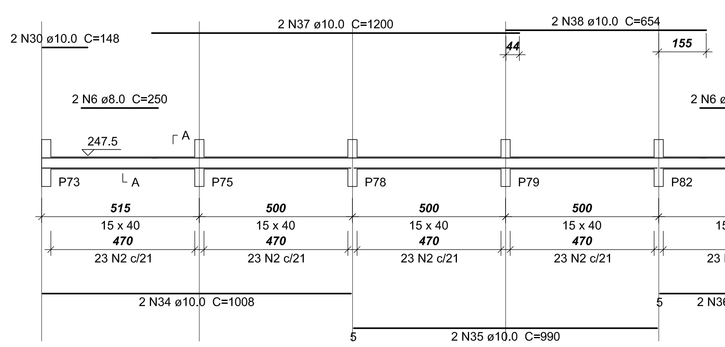
Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	8.0	85.5	33.7
	10.0	838.6	517
CA60	5.0	895.3	138
PESO TOTAL			
CA50	550.7		
CA60	138		

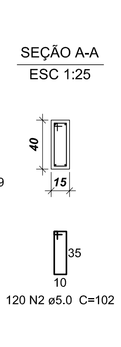
Vol. de concreto total (C-30) = 10.84 m³
Área de forma total = 187.05 m²

V106 (15 x 40)

1:100

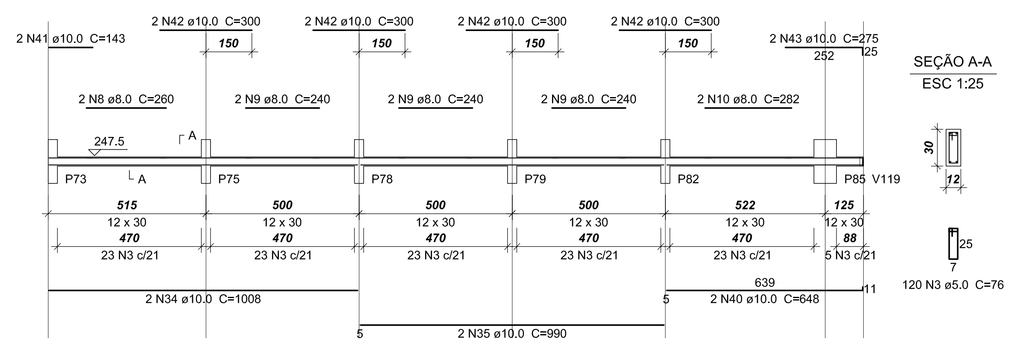


SEÇÃO A-A
ESC 1:25



V107 (12 x 30)

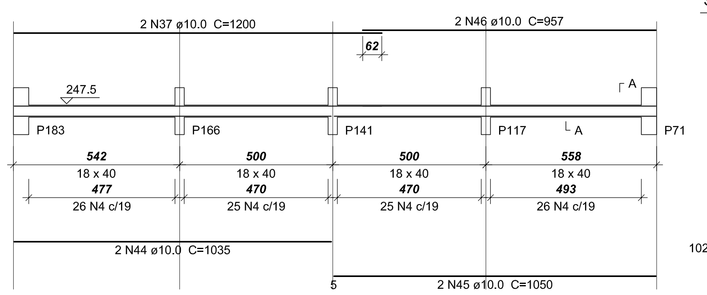
1:100



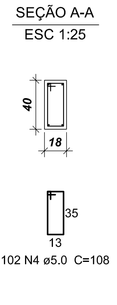
SEÇÃO A-A
ESC 1:25

V110 (18 x 40)

1:100

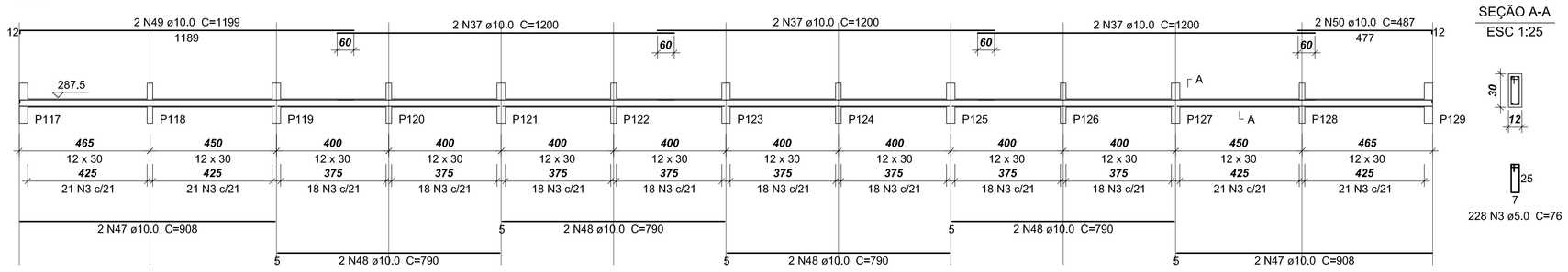


SEÇÃO A-A
ESC 1:25



V109 (12 x 30)

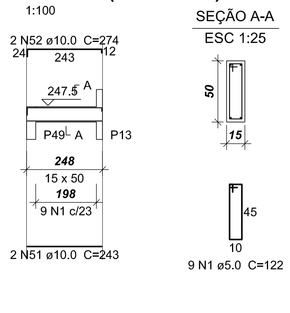
1:100



SEÇÃO A-A
ESC 1:25

V111 (15 x 50)

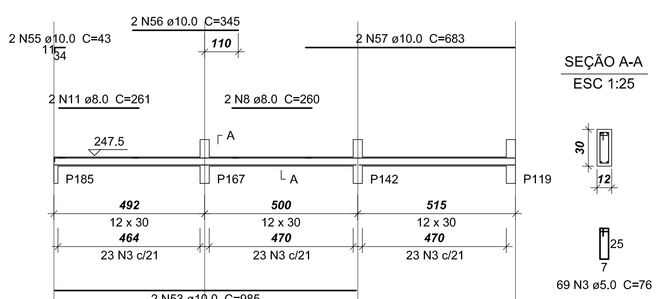
1:100



SEÇÃO A-A
ESC 1:25

V112 (12 x 30)

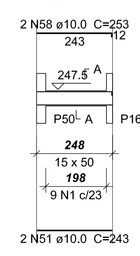
1:100



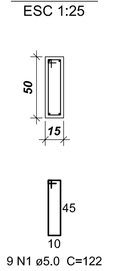
SEÇÃO A-A
ESC 1:25

V113 (15 x 50)

1:100

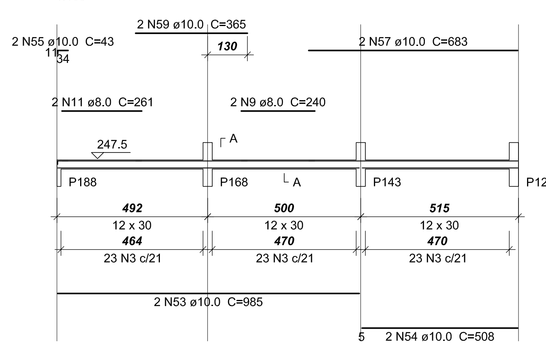


SEÇÃO A-A
ESC 1:25

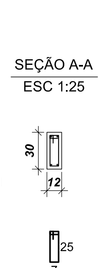


V114 (12 x 30)

1:100

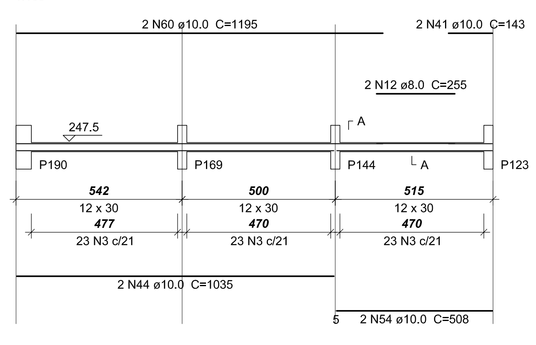


SEÇÃO A-A
ESC 1:25

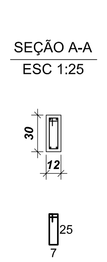


V115 (12 x 30)

1:100

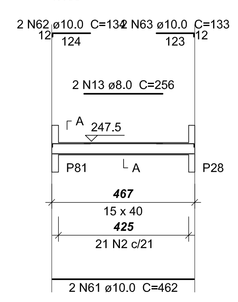


SEÇÃO A-A
ESC 1:25

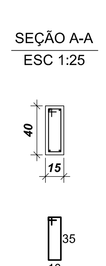


V116 (15 x 40)

1:100

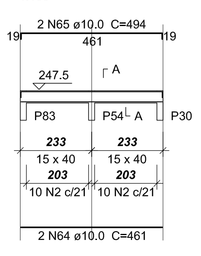


SEÇÃO A-A
ESC 1:25

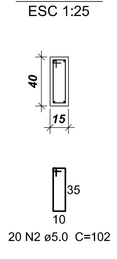


V117 (15 x 40)

1:100



SEÇÃO A-A
ESC 1:25



V101	V102	V103
V104	V105	V106
V107	V108	V109
V110	V111	V112
V113	V114	V115
V116	V117	V119

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

PRANCHA: EST
ARQUIVO:
REFERÊNCIA: FERREGEM DAS VIGAS: VIGAS DO PAVIMENTO INTERMEDIÁRIO 1 (1)
DESENHO: CARLOS
DATA: 27/09/2012
10 /30
AUTOR DO PROJETO: ENG. CIVIL CARLOS HENRIQUE DE S. GONÇALVES CREA: 7.982-D/PR
ESCALA: INDICADA