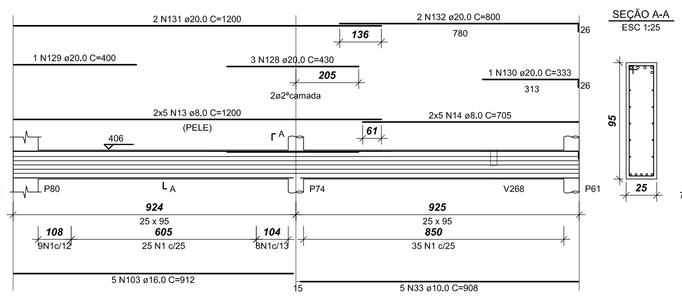
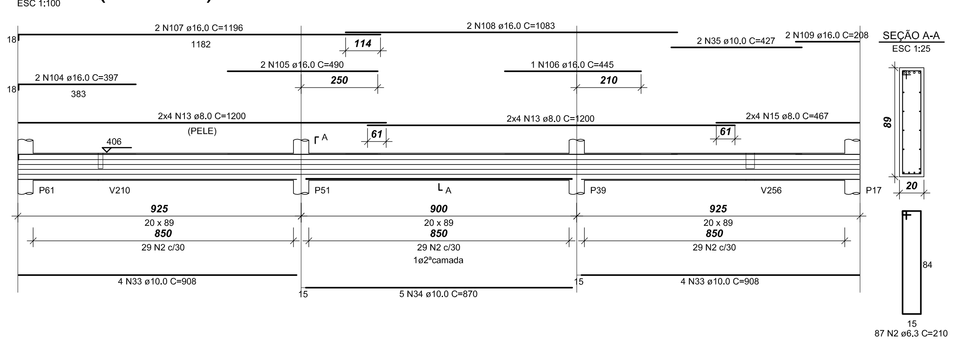
V232 (25 x 95)

ESC 1:100



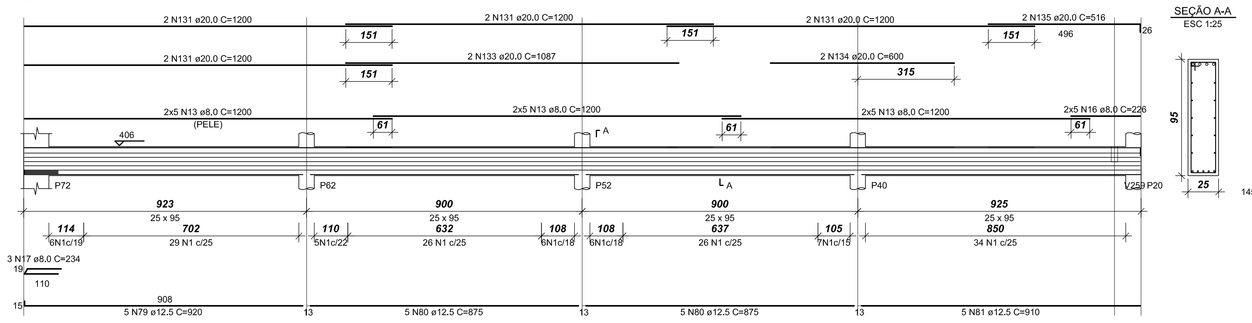
V233 (20 x 89)

ESC 1:100



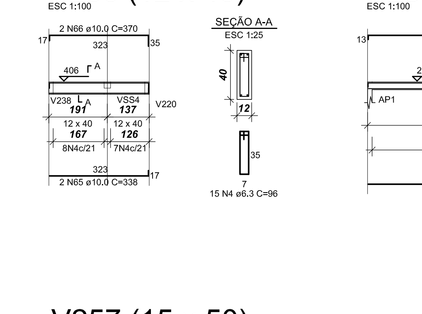
V235 (25 x 95)

ESC 1:100



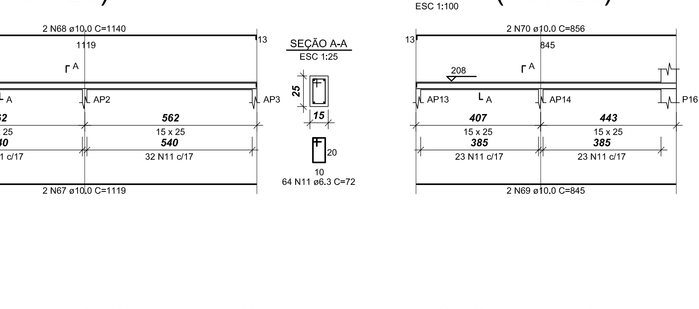
V236 (20 x 89)

ESC 1:100



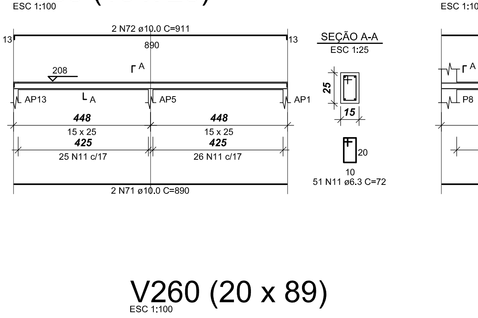
V237 (25 x 95)

ESC 1:100



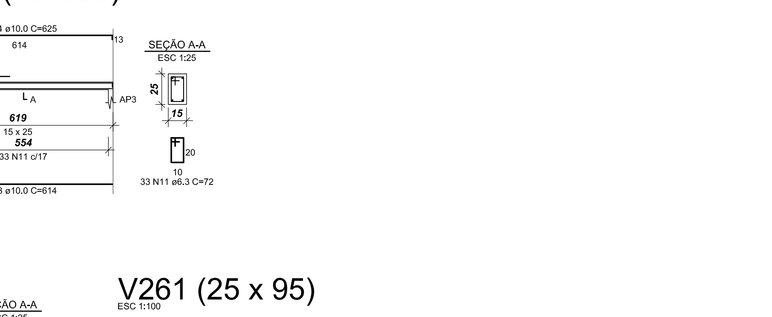
V239 (20 x 89)

ESC 1:100



V240 (25 x 95)

ESC 1:100

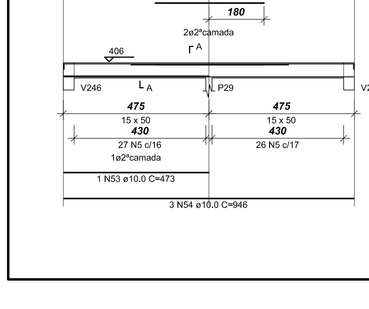


V242 (12 x 40)

ESC 1:100

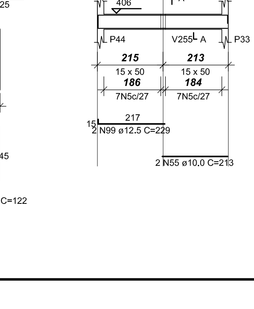
V243 (20 x 89)

ESC 1:100



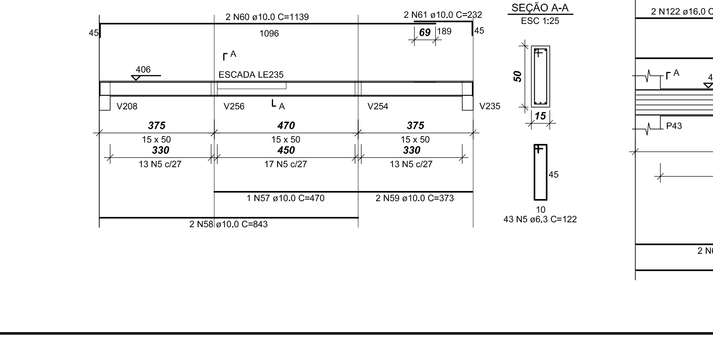
V245 (15 x 50)

ESC 1:100



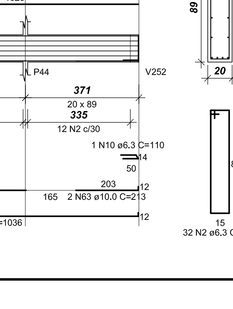
V246 (25 x 89)

ESC 1:100



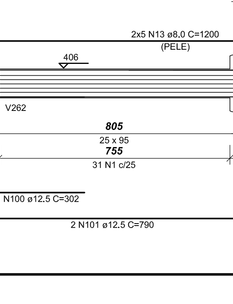
V247 (12 x 40)

ESC 1:100



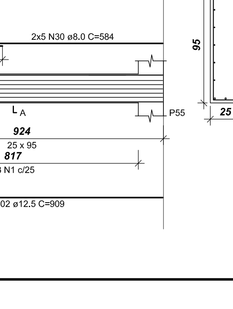
V248 (12 x 40)

ESC 1:100



V249 (15 x 50)

ESC 1:100



V250 (20 x 89)

ESC 1:100

V251 (seção L 20x89x82x15)

ESC 1:100

V252 (20 x 89)

ESC 1:100

V253 (20 x 50)

ESC 1:100

V254 (20 x 50)

ESC 1:100

V255 (15 x 50)

ESC 1:100

V256 (20 x 50)

ESC 1:100

V266 (12 x 40)

ESC 1:100

V283 (15 x 25)

ESC 1:100

V284 (15 x 25)

ESC 1:100

V285 (15 x 25)

ESC 1:100

V286 (15 x 25)

ESC 1:100

V257 (15 x 50)

ESC 1:100

V258 (15 x 50)

ESC 1:100

V259 (15 x 50)

ESC 1:100

V260 (20 x 89)

ESC 1:100

V261 (25 x 95)

ESC 1:100

RELAÇÃO DO AÇO

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
50	1	6,3	438	232	101616
	2	6,3	284	210	59640
	4	6,3	24	56	3264
	5	6,3	168	122	20496
	6	6,3	56	220	12320
	7	6,3	56	122	6832
	8	6,3	43	132	5676
	9	6,3	8	128	1024
	10	6,3	1	110	110
	11	6,3	194	72	13968
	12	6,3	56	62	3472
	13	8,0	96	1200	115200
	14	8,0	10	705	7050
	15	8,0	8	467	3736
	16	8,0	10	226	2260
	17	8,0	3	234	702
	18	8,0	8	977	7816
	19	8,0	20	706	14120
	20	8,0	3	170	510
	21	8,0	8	792	6336
	22	8,0	10	703	7030
	23	8,0	3	142	426
	24	8,0	8	792	6336
	25	8,0	8	941	7528
	26	8,0	8	828	6624
	27	8,0	1	240	240
	28	8,0	1	226	226
	29	8,0	8	1026	8208
	30	8,0	10	584	5840
	31	8,0	1	104	104
	32	8,0	1	102	102
	33	10,0	13	908	11804
	34	10,0	5	870	4350
	35	10,0	2	427	854
	36	10,0	8	944	7552
	37	10,0	2	144	288
	38	10,0	2	176	352
	39	10,0	2	413	826
	40	10,0	3	447	1341
	41	10,0	2	140	280
	42	10,0	2	158	316
	43	10,0	2	196	392
	44	10,0	2	243	486
	45	10,0	2	454	908
	46	10,0	2	171	342
	47	10,0	2	213	426
	48	10,0	2	532	1064
	49	10,0	1	220	220
	50	10,0	2	550	1100
	51	10,0	2	221	442
	52	10,0	2	528	1056
	53	10,0	1	473	473
	54	10,0	3	946	2838
	55	10,0	2	213	426
	56	10,0	2	472	944
	57	10,0	1	470	470
	58	10,0	2	843	1686
	59	10,0	2	373	746
	60	10,0	2	1139	2278
	61	10,0	1	232	464
	62	10,0	2	660	1320
	63	10,0	2	213	426
	64	10,0	2	1036	2072
	65	10,0	2	338	676
	66	10,0	2	370	740
	67	10,0	2	1119	2238
	68	10,0	2	1145	2290
	69	10,0	1	845	845
	70	10,0	2	856	1712
	71	10,0	2	890	1780
	72	10,0	2	911	1822
	73	10,0	2	614	1228
	74	10,0	2	625	1250
	75	10,0	4	182	728
	76	10,0	4	186	744
	77	10,0	4	174	696
	78	10,0	4	178	712
	79	12,5	5	920	4600
	80	12,5	10	875	8750
	81	12,5	5	910	4550
	82	12,5	4	804	3216
	83	12,5	3	823	2469
	84	12,5	4	499	1497
	85	12,5	4	801	3204
	86	12,5	3	825	2475
	87	12,5	4	959	3836
	88	12,5	1	250	250
	89	12,5	1	312	312
	90	12,5	2	871	1742
	91	12,5	1	340	340
	92	12,5	2	764	1528
	93	12,5	2	949	1898
	94	12,5	4	420	1680
	95	12,5	1	245	245
	96	12,5	1	395	395
	97	12,5	2	667	1334
	98	12,5	2	545	1090
	99	12,5	2	229	458
	100	12,5	1	302	302
	101	12,5	2	790	1580
	102	12,5	3	909	2727
	103	16,0	9	912	8208
	104	16,0	2	397	794
	105	16,0	2	490	980
	106	16,0	1	445	445
	107	16,0	2	1196	2392
	108	16,0	2	1083	2166
	109	16,0	2	208	416
	110	16,0	6	977	5862
	111	16,0	1	279	279
	112	16,0	2	464	464
	113	16,0	16	929	14864
	114	16,0	3	944	2832
	115	16,0	2	237	474
	116	16,0	3	958	2874
	117	16,0	3	927	2781
	118	16,0	1	317	317
	119	16,0	3	1050	3150
	120	16,0	2	355	710
	121	16,0	2	975	1950
	122	16,0	2	374	748
	123	16,0	2	1106	2212
	124	16,0	1	425	1275
	125	16,0	1	241	241
	126	16,0	2	1196	2392
	127	16,0	2	698	1396
	128	20,0	1	430	1290
	129	20,0	1	400	400
	130	20,0	1	333	333
	131	20,0	12	1200	14400
	132	20,0	2	800	1600
	133	20,0	2	1087	2174
	134	20,0	2	600	1200
	135	20,0	2	516	1032
	136	20,0	3	505	1515
	137	20,0	1	1194	1194
	138	20,0	2	1194	2388
	139	20,0	2	819	1638
	140	20,0	2	810	1620
	141	20,0	1	270	270
	142	20,0	2	795	1590
	143	20,0	1	1044	1044
	144	20,0	1	951	951
	145	20,0	1	425	425
	146	20,0	2	1194	2388
	147	20,0	2	845	1690
	148	20,0	2	1031	2062
	149	20,0	2	1008	2016

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	6.3	2359,6	578,4
	8.0	2003,9	791,9
	10.0	668,3	412,2
	12.5	497,2	479,3
	16.0	602,3	951,6
	20.0	417,5	1030,5
PESO TOTAL			
CA50		4243,7	

Vol. de concreto total (C-25) =53,09 m³
Área de forma total = 542,14 m²

V232	V233	V235
V236	V237	V239
V240	V242	V243
V245	V246	V247
V248	V249	V250
V251	V252	V253
V254	V255	V256
V257	V258	V259
V260	V261	V266
V283	V284	V285
V286		

01	11.06.2013	PROJETO ESTRUTURAL	
Nº.	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:

AS BUILT ENGENHARIA DE PROJETOS LTDA
Rua Jovino do Rosário, 1564 - Boa Vista
CEP 82560-435 - Curitiba - Paraná
asbuiltprojetos@gmail.com - (41)3088-4949

FASE: PROJETO ESTRUTURAL

CONFERIR MEDIDAS NA OBRA

OBRA: BIBLIOTECA CAMPUS JANAÚBA

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI — CNPJ: 16.886.315/0001-57

PRANCHA: FERRAGEM DAS VIGAS: VIGAS DO SEGUNDO PAVIMENTO (2)

AUTOR PROJETO: CARLOS HENRIQUE DE SOUZA GONÇALVES CREA 79820/D - Pr

ESCALA: INDICADA			DESENHO: EQUIPE
VERSÃO: VERSAO 1	DATA: 28/06/2013	ÁREA CONSTRUÍDA: 4.127,32 m²	FOLHA: EST 13/26

ARQUIVO: