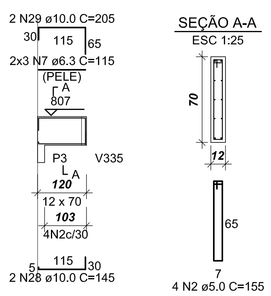
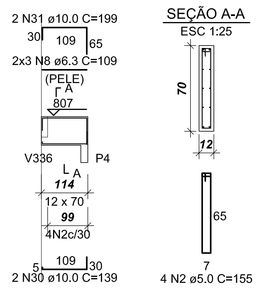
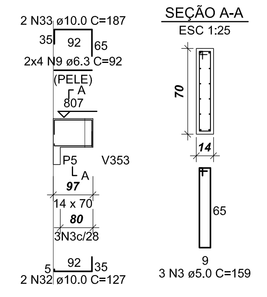
V301 (12 x 70)
ESC 1:75



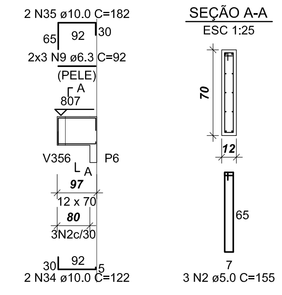
V302 (12 x 70)
ESC 1:75



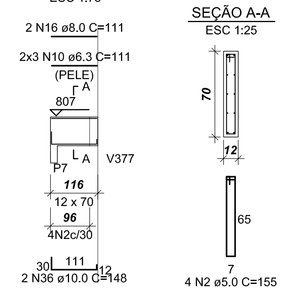
V303 (14 x 70)
ESC 1:75



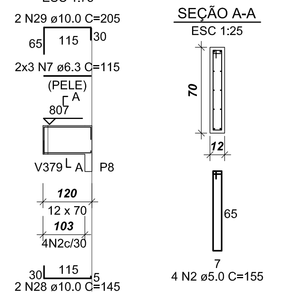
V304 (12 x 70)
ESC 1:75



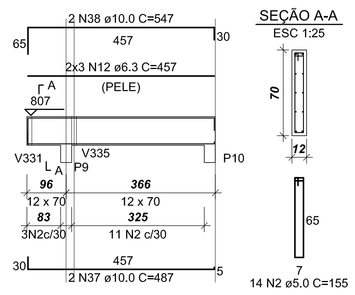
V305 (12 x 70)
ESC 1:75



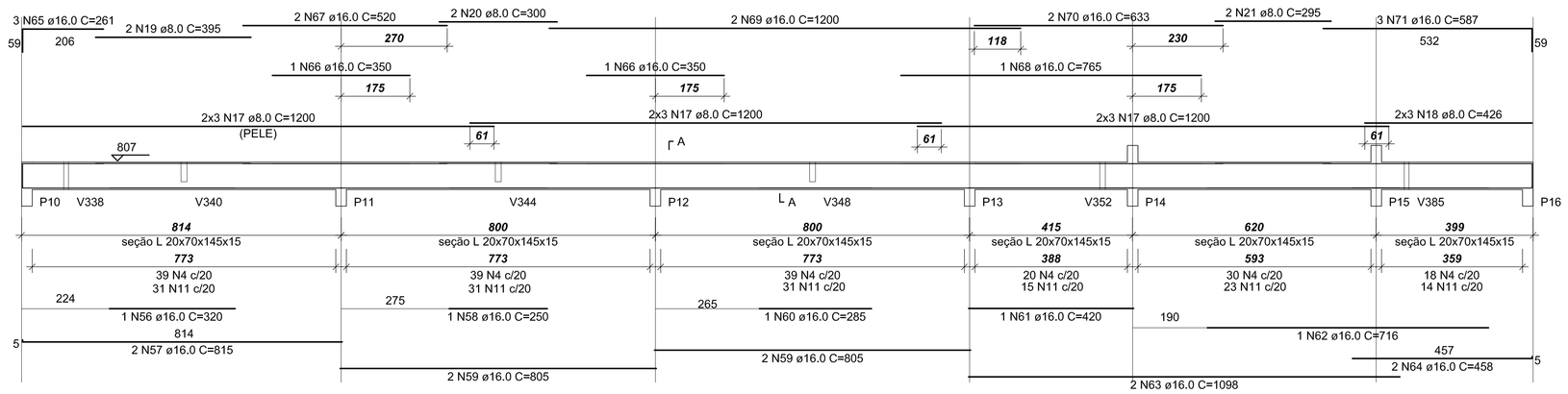
V306 (12 x 70)
ESC 1:75

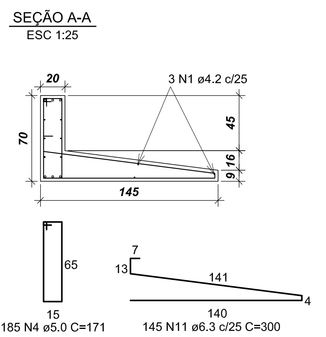


V310 (12 x 70)
ESC 1:75

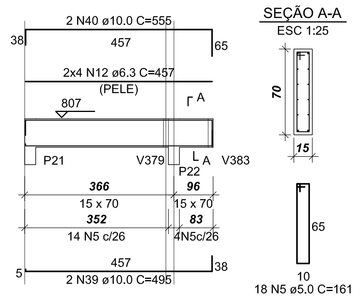


V307 (seção L 20x70x145x15)
ESC 1:75

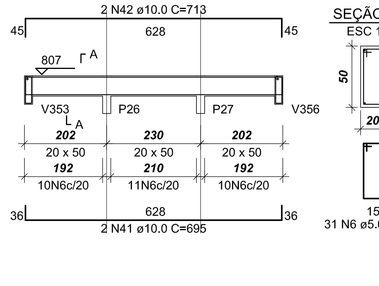


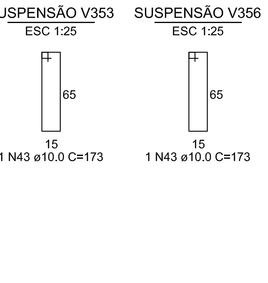


V311 (15 x 70)
ESC 1:75

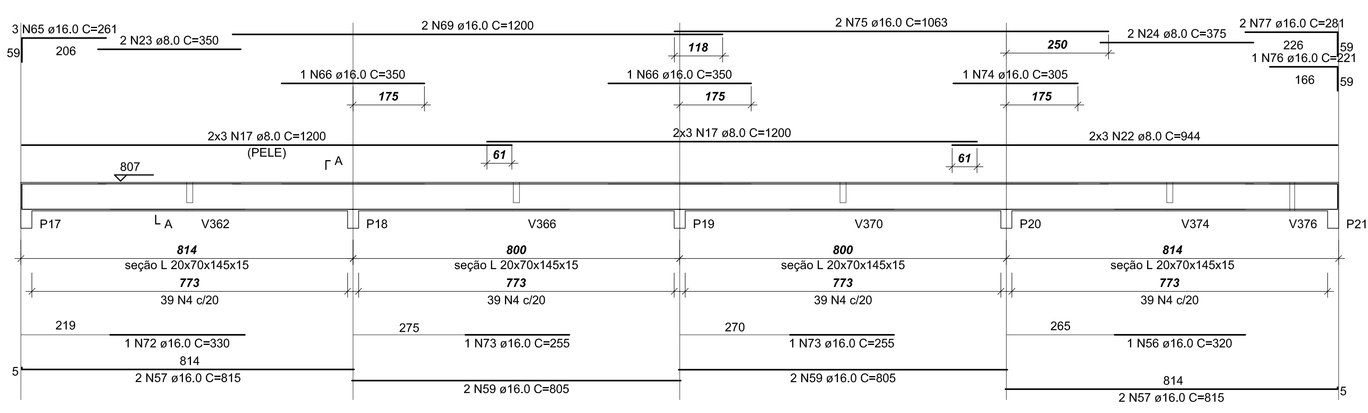


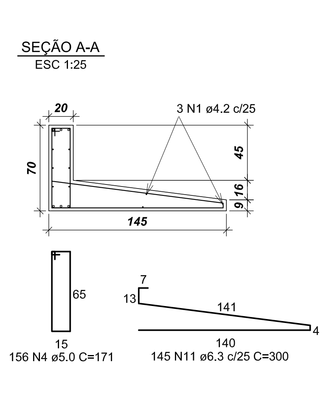
V312 (20 x 50)
ESC 1:75



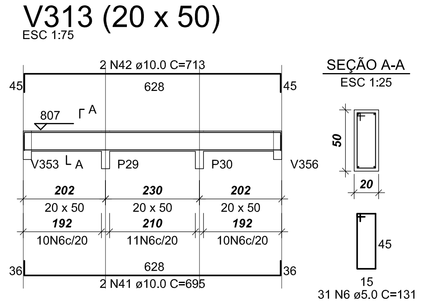


V309 (seção L 20x70x145x9)
ESC 1:75

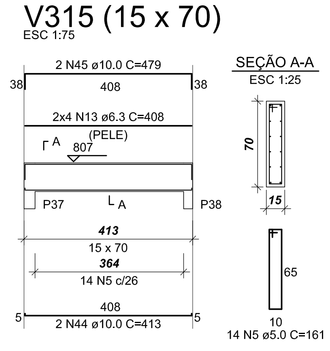




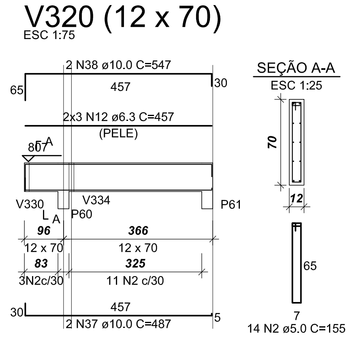
V313 (20 x 50)
ESC 1:75



V315 (15 x 70)
ESC 1:75



V320 (12 x 70)
ESC 1:75



RESUMO DO AÇO

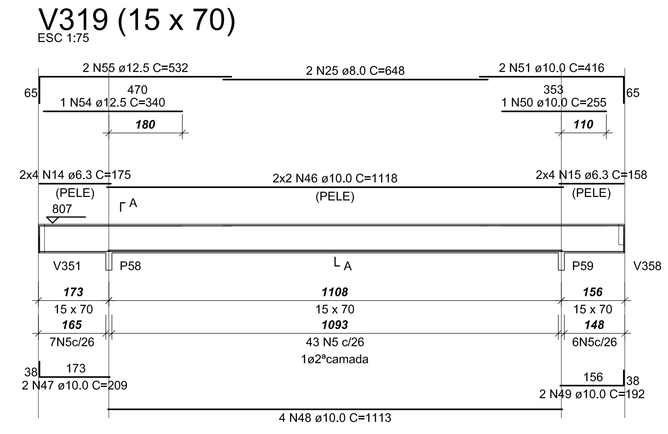
AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	6.3	1184.3	290.3
	8.0	970.2	383.4
	10.0	337.4	208.1
	12.5	14.0	13.5
	16.0	636.9	1006.2
CA60	4.2	534.0	58.3
	5.0	1499.1	230.8
PESO TOTAL			
CA50	1901.5		
CA60	289.1		

Vol. de concreto total (C-25) =25.35 m³
Área de forma total = 260.94 m²

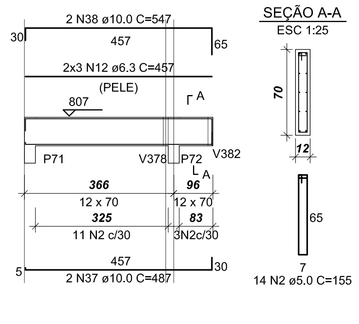
RELAÇÃO DO AÇO

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	4.2	3	17800	53400
	2	5.0	65	155	10075
	3	5.0	3	159	477
	4	5.0	682	171	116622
	5	5.0	88	161	14168
	6	5.0	62	131	8122
50	7	6.3	18	115	2070
	8	6.3	6	109	654
	9	6.3	14	92	1288
	10	6.3	6	111	666
	11	6.3	320	300	96000
	12	6.3	26	457	11882
	13	6.3	8	408	3264
	14	6.3	8	175	1400
	15	6.3	8	158	1264
	16	8.0	2	111	222
	17	8.0	60	1200	72000
	18	8.0	6	426	2556
	19	8.0	4	395	1580
	20	8.0	2	300	600
	21	8.0	2	295	590
	22	8.0	12	944	11328
	23	8.0	6	350	2100
	24	8.0	4	375	1500
	25	8.0	2	648	1296
	26	8.0	6	435	2610
	27	8.0	2	320	640
	28	10.0	6	145	870
	29	10.0	6	205	1230
	30	10.0	2	139	278
	31	10.0	2	199	398
	32	10.0	2	127	254
	33	10.0	2	187	374
	34	10.0	2	122	244
	35	10.0	2	182	364
	36	10.0	2	148	296
	37	10.0	6	487	2922
	38	10.0	6	547	3282
	39	10.0	2	495	990
	40	10.0	2	555	1110
	41	10.0	4	695	2780
	42	10.0	4	713	2852
	43	10.0	2	173	346
	44	10.0	2	413	826
	45	10.0	2	479	958
	46	10.0	4	1118	4472
	47	10.0	2	209	418
	48	10.0	4	1113	4452
	49	10.0	2	192	384
	50	10.0	1	255	255
	51	10.0	2	416	832
	52	10.0	3	131	393
	53	10.0	3	714	2142
	54	12.5	1	340	340
	55	12.5	2	532	1064
	56	16.0	3	320	960
	57	16.0	12	815	9780
	58	16.0	1	250	250
	59	16.0	16	805	12880
	60	16.0	1	285	285
	61	16.0	1	420	420
	62	16.0	1	716	716
	63	16.0	2	1098	2196
	64	16.0	2	458	916
	65	16.0	15	261	3915
	66	16.0	8	350	2800
	67	16.0	4	520	2080
	68	16.0	1	765	765
	69	16.0	8	1200	9600
	70	16.0	2	633	1266
	71	16.0	3	587	1761
	72	16.0	2	330	660
	73	16.0	4	255	1020
	74	16.0	2	305	610
	75	16.0	2	1063	2126
	76	16.0	1	221	221
	77	16.0	2	281	562
	78	16.0	1	265	265
	79	16.0	1	270	270
	80	16.0	1	260	260
	81	16.0	2	701	1402
	82	16.0	1	395	395
	83	16.0	1	360	360
	84	16.0	2	993	1986
	85	16.0	3	136	408
	86	16.0	1	325	325
	87	16.0	2	1108	2216

V319 (15 x 70)
ESC 1:75

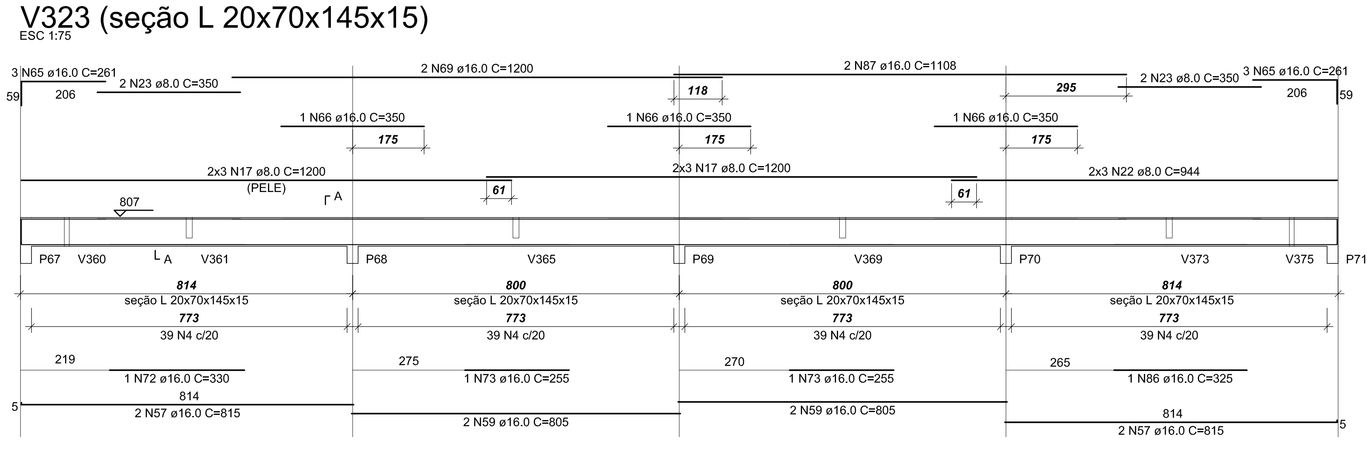


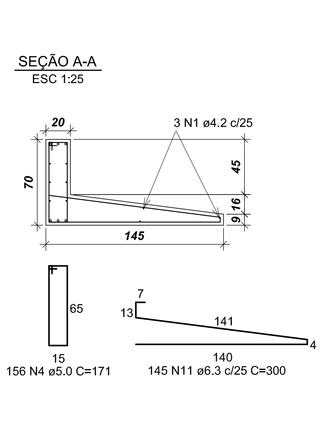
V321 (12 x 70)
ESC 1:75



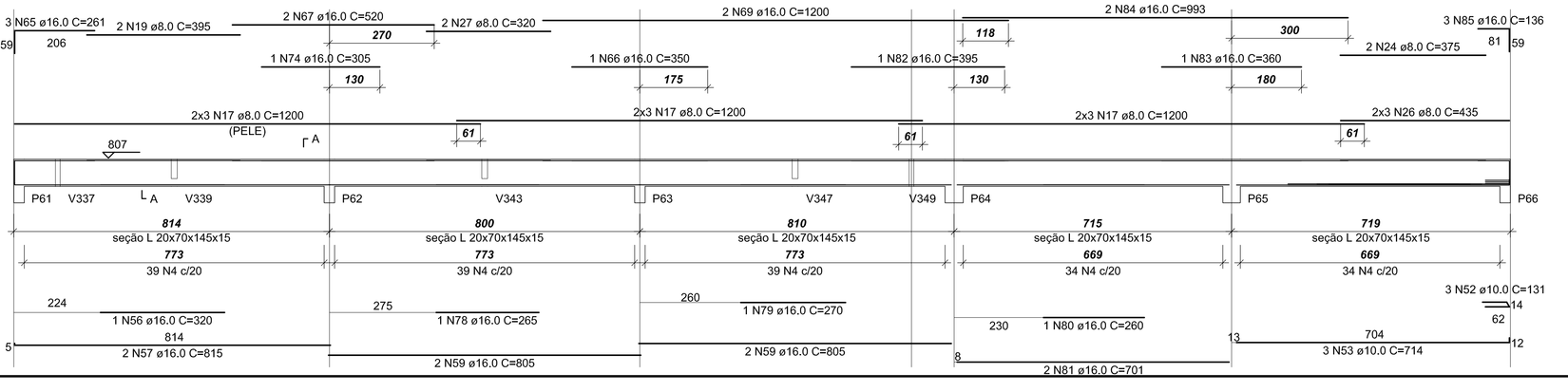
V301 V302 V303
V304 V305 V306
V307 V309 V310
V311 V312 V313
V315 V319 V320
V321 V322 V323
V324

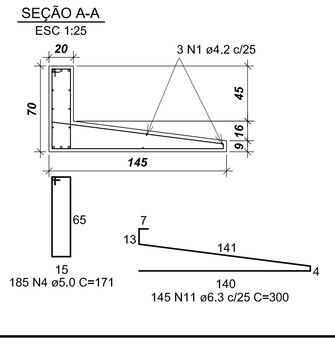
V323 (seção L 20x70x145x15)
ESC 1:75



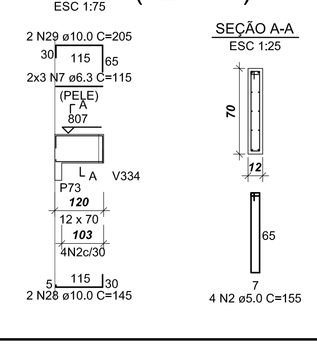


V322 (seção L 20x70x145x15)
ESC 1:75





V324 (12 x 70)
ESC 1:75



ID:	18/06/2013	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
asbuilt@projetos@gmail.com - (41)3088-4949

FASE: PROJETO ESTRUTURAL

CONFERIR MEDIDAS NA OBRA

OBRA: ADMINISTRAÇÃO
CAMPUS JANÚBA

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

PRANCHA: FERRAGENS DAS VIGAS: PAVIMENTO COBERTURA(1)

AUTOR PROJETO: CARLOS HENRIQUE DE SOUZA GONÇALVES
CREA 79620D - Pr

ESCALA: INDICADA			DESENHO: EQUIPE
VERSÃO: VERSAO 1	DATA: 18/06/2013	ÁREA CONSTRUÍDA: 3056,63m²	FOLHA: EST 18/22
ARQUIVO:			