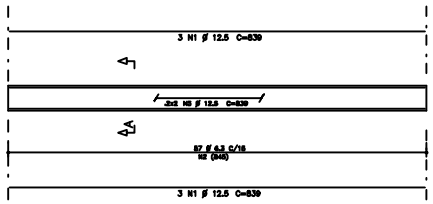
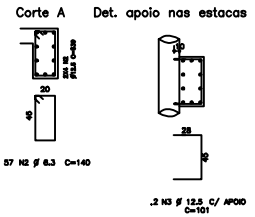
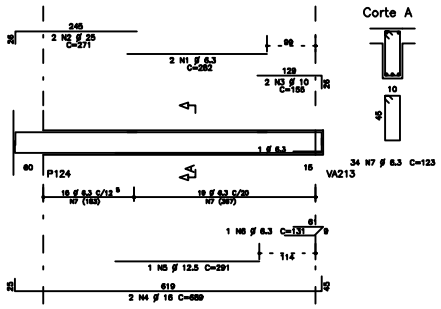
VA214B 25/50

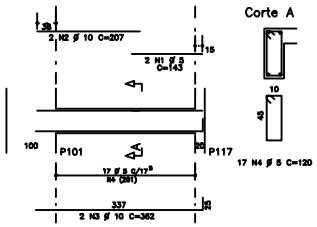




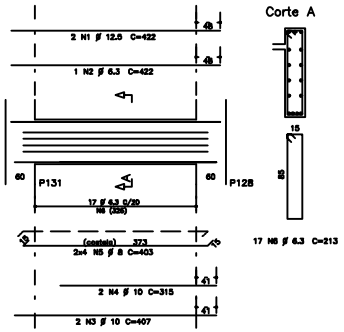
VA216 15/50



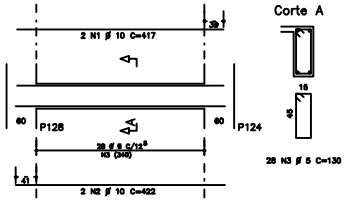
VA217 15/50



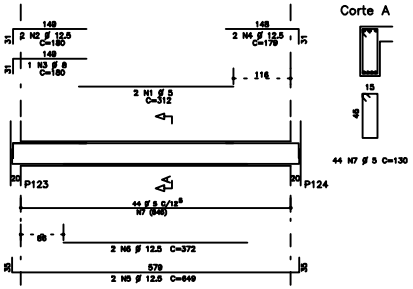
VA218 20/90



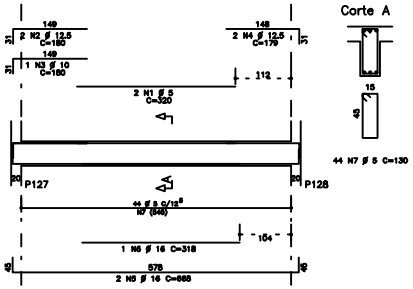
VA219 20/50



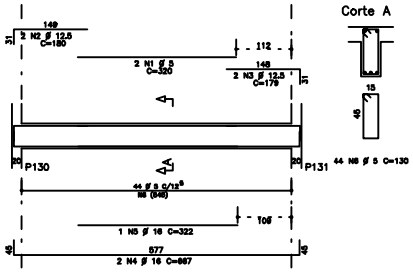
VRA201 20/50



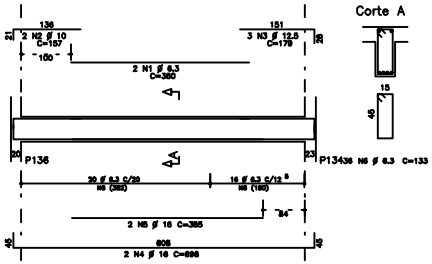
VRA202 20/50



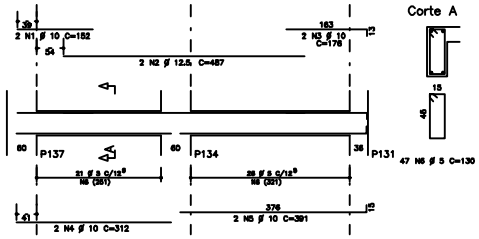
VRA203 20/50



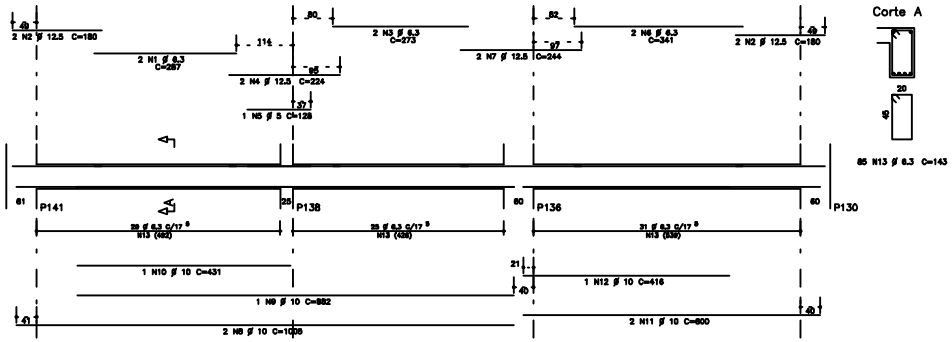
VRA204 20/50



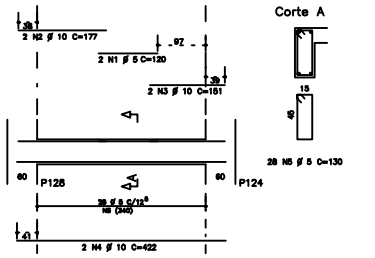
VRA206 (ACOMPANHA RAMPA) 20/50



VRA205 (ACOMPANHA RAMPA) 25/50



VRA207 (ACOMPANHA RAMPA) 20/50



ACO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VA218					
50A	1	12.5	2	422	844
50A	2	6.3	1	422	422
50A	3	10	2	407	814
50A	4	10	2	315	630
50A	5	8	8	403	3224
50A	6	6.3	17	213	3621
VA219					
50A	1	10	2	417	834
50A	2	10	2	422	844
60B	3	5	26	130	3640
VA214B					
50A	1	12.5	6	839	5034
50A	2	6.3	57	140	7980
50A	3	12.5	12	101	1212
50A	5	12.5	4	839	3356
VA216					
50A	1	6.3	2	392	784
50A	2	20	2	271	542
50A	3	10	2	126	310
50A	4	16	2	689	1378
50A	5	12.5	1	291	291
50A	6	6.3	1	131	131
50A	7	6.3	34	123	4182
VA217					
60B	1	5	2	143	286
50A	2	10	2	207	414
50A	3	10	2	362	724
60B	4	5	17	130	2040
VRA201					
60B	1	5	2	312	624
50A	2	12.5	2	180	360
50A	3	8	1	180	180
50A	4	12.5	2	179	358
50A	5	12.5	2	649	1298
50A	6	12.5	2	372	744
60B	7	5	44	130	5720
VRA202					
60B	1	5	2	320	640
50A	2	12.5	2	180	360
50A	3	10	1	180	180
50A	4	12.5	2	179	358
50A	5	16	2	668	1336
50A	6	16	1	318	318
60B	7	5	44	130	5720
VRA203					
60B	1	5	2	320	640
50A	2	12.5	2	180	360
50A	3	12.5	2	179	358
50A	4	16	2	667	1334
50A	5	16	1	322	322
60B	6	5	44	130	5720
VRA204					
50A	1	6.3	2	389	778
50A	2	10	2	157	314
50A	3	12.5	3	179	537
50A	4	16	2	668	1336
50A	5	16	2	385	770
50A	6	6.3	36	133	4788
VRA205					
50A	1	6.3	2	287	574
50A	2	12.5	4	180	720
50A	3	6.3	2	273	546
50A	4	12.5	2	224	448
60B	5	5	1	128	128
50A	6	6.3	2	341	682
50A	7	12.5	2	244	488
50A	8	10	2	1005	2010
50A	9	10	1	892	892
50A	10	10	1	431	431
50A	11	10	2	800	1600
50A	12	10	1	416	416
50A	13	6.3	85	143	12155
VRA206					
50A	1	10	2	182	364
50A	2	12.5	2	487	974
50A	3	10	2	176	352
50A	4	10	2	312	624
50A	5	10	2	391	782
60B	6	5	47	130	6110
VRA207					
60B	1	5	2	130	260
50A	2	10	2	177	354
50A	3	10	2	181	362
50A	4	10	2	422	844
60B	5	5	28	130	3640

RESUMO ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	351	56
50A	6.3	364	91
50A	8	34	14
50A	10	136	84
50A	12.5	181	181
50A	16	69	110
50A	25	5	22
Peso Total	60B =		56 kg
Peso Total	50A =		502 kg

INDICE:
VA214B / VA216 A VA219 / VRA201 A VRA207

FCK= 40 MPa
EC = 30 GPa (MODULO DE ELASTICIDADE SECANTE)
A/C = 0,65 (FATOR AGUA CIMENTO)

REV	DATA	DESCRICAO
1	28/05/2008	ALTERACAO DA VIGA VA214B
0	12/03/2008	EMISSAO INICIAL

Simetria Engenharia e Projetos Ltda

PROJETO ESTRUTURAL

CLIENTE: BPP PARTICIPACOES LTDA
OBRA: ED. COMERCIAL SIG-2 — No OBRA:
ENDEREÇO OBRA: SETOR DE INDUSTRIAS GRAFICAS - QUADRA 01 LOTES 485/505/515

DESCRIÇAO:
ARMACAO DAS VIGAS DO 1o. SUBSOLO JUNTA A (02/02)
ARMACAO DAS VIGAS DA RAMPA - JUNTA A

DESENHO No: 064/173

DESENHISTA: TGS/HELENA — DATA: 12/03/2008 — ESCALA: 1:50 — UNIDADE: cm — ARQUIVO PLT: PIN-064-173-R01.PLT

PROPRIETARIO: — RESPONSAVEL TECNICO:

RESPONSAVEL TECNICO PELO PROJETO ESTRUTURAL

SIMETRIA ENGENHARIA E PROJETOS S/C LTDA
CREA-2735/97