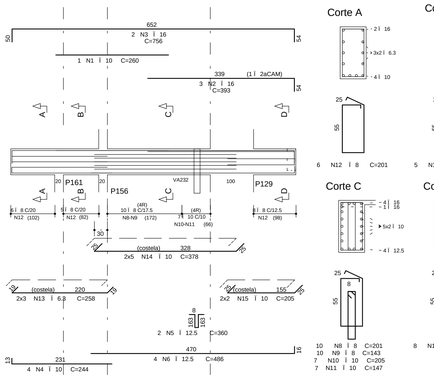
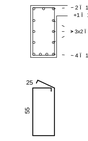
VA248 30/60



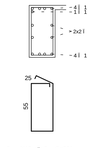
Corte A

Corte B

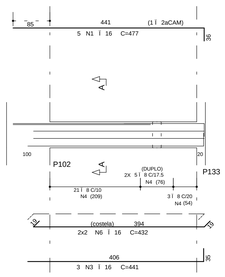


Corte C

Corte D



VA249 25/60



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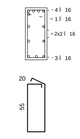
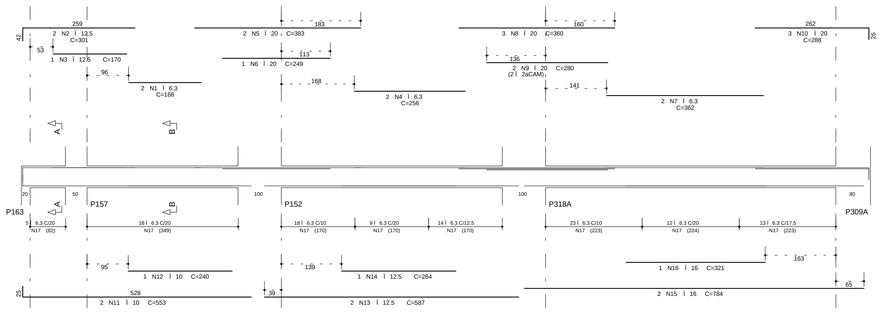
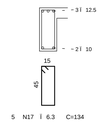


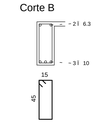
VA258 20/50



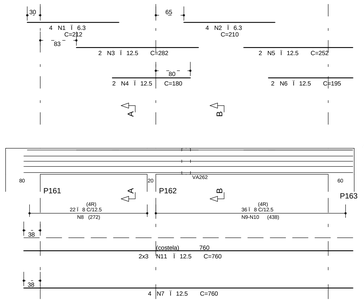
Corte A



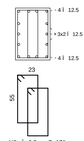
Corte B



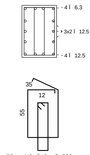
VA261 40/60



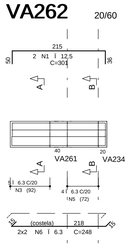
Corte A



Corte B



VA262 20/60



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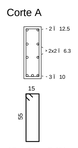
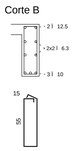
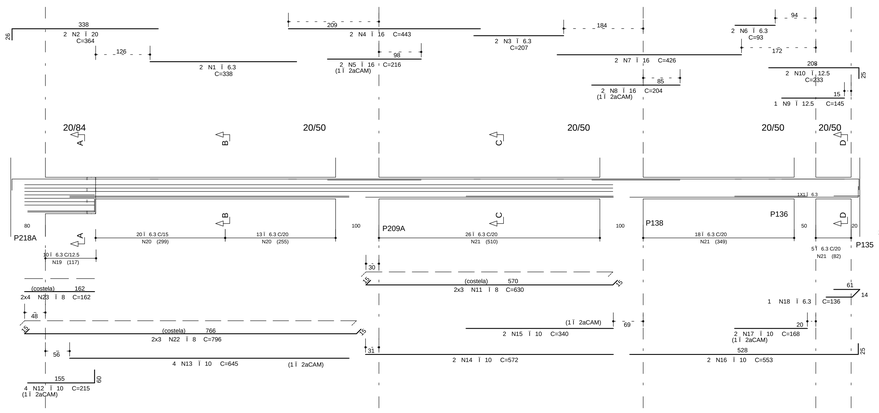


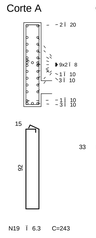
Corte B



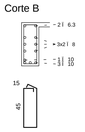
VA260 20/VAR



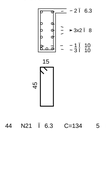
Corte A



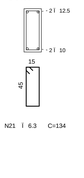
Corte B



Corte C



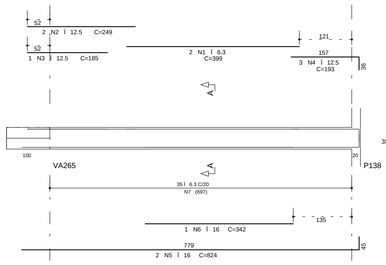
Corte D



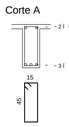
A€O	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VA248					
50A	1	10	1	260	260
50A	2	16	3	393	1179
50A	3	16	2	756	1512
50A	4	10	4	244	976
50A	5	12.5	2	360	720
50A	6	12.5	4	486	1944
50A	8	8	10	201	2010
50A	9	8	10	143	1430
50A	10	10	7	205	1435
50A	11	10	7	147	1029
50A	12	8	19	201	3819
50A	13	6.3	6	258	1548
50A	14	10	10	378	3780
50A	15	10	4	205	820
VA249					
50A	1	16	5	477	2385
50A	3	16	3	441	1323
50A	4	8	34	186	6324
50A	6	16	4	432	1728
VA258					
50A	1	6.3	2	168	336
50A	2	12.5	2	301	602
50A	3	12.5	1	170	170
50A	4	6.3	2	256	512
50A	5	20	2	383	766
50A	6	20	1	249	249
50A	7	6.3	2	362	724
50A	8	20	3	360	1080
50A	9	20	2	280	560
50A	10	20	3	288	864
50A	11	10	2	553	1106
50A	12	10	1	240	240
50A	13	12.5	2	587	1174
50A	14	12.5	1	264	264
50A	15	16	2	784	1568
50A	16	16	1	321	321
50A	17	6.3	112	134	15008
VA260					
50A	1	6.3	2	338	676
50A	2	20	2	364	728
50A	3	6.3	2	207	414
50A	4	16	2	443	886
50A	5	16	2	216	432
50A	6	6.3	2	93	186
50A	7	16	2	426	852
50A	8	16	2	204	408
50A	9	12.5	2	145	290
50A	10	12.5	3	153	459
50A	11	8	6	630	3780
50A	12	10	4	215	860
50A	13	10	4	645	2580
50A	14	10	2	572	1144
50A	15	10	2	340	680
50A	16	10	2	553	1106
50A	17	10	2	168	336
50A	18	6.3	1	136	136
50A	19	6.3	10	243	2430
50A	20	6.3	33	149	4917
50A	21	6.3	49	134	6566
50A	22	8	6	796	4776
50A	23	8	8	162	1296
VA261					
50A	1	6.3	4	212	848
50A	2	6.3	4	210	840
50A	3	12.5	2	282	564
50A	4	12.5	2	180	360
50A	5	12.5	2	252	504
50A	6	12.5	2	195	390
50A	7	12.5	4	760	3040
50A	8	6.3	44	171	7524
50A	9	8	36	229	8244
50A	10	8	36	147	5292
50A	11	12.5	5	760	4560
VA262					
50A	1	12.5	2	301	602
50A	2	10	3	261	783
50A	3	6.3	5	154	770
50A	5	6.3	4	169	676
50A	6	6.3	4	248	992
VA263					
50A	1	6.3	2	399	798
50A	2	12.5	2	249	498
50A	3	12.5	1	185	185
50A	4	12.5	3	193	579
50A	5	16	2	824	1648
50A	6	16	1	342	342
50A	7	6.3	35	134	4690
VA264					
50A	1	8	4	253	1012
50A	2	8	4	339	1356
50A	3	20	3	393	1179
50A	4	20	6	285	1710
50A	5	12.5	4	145	580
50A	6	20	4	420	1680
50A	7	20	1	334	334
50A	8	16	5	566	2830
50A	9	8	29	341	9889
50A	10	8	29	119	3451
50A	11	8	78	183	14274
50A	12	8	4	417	1668
VA265					
50A	1	20	6	756	4536
50A	2	20	4	254	1016
50A	3	12.5	2	126	252
50A	4	16	4	735	2940
50A	5	16	2	274	548
50A	6	8	38	341	12958
50A	7	8	76	132	10032
50A	8	10	21	345	7245
50A	9	10	42	136	5712
50A	10	8	4	697	2788

RESUMO A€O CA 50-60			
A€O	BIT (mm)	COMPR (m)	PESO (kg)
50A	6.3	506	126
50A	8	944	378
50A	10	301	190
50A	12.5	176	176
50A	16	209	334
50A	20	147	368
Peso Total	50A =		1572 kg

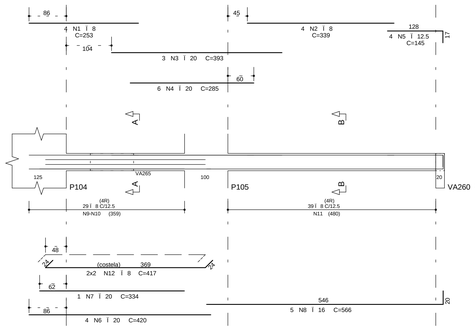
VA263 20/50



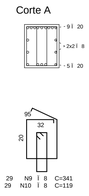
Corte A



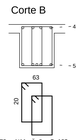
VA264 100/25



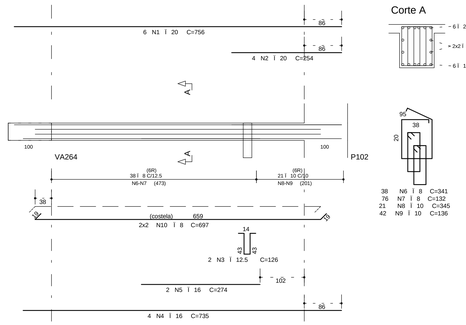
Corte A



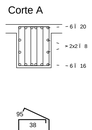
Corte B



VA265 100/25



Corte A



COBRIMENTO DA ARMADURA:[1]

- LAJES = 2,0 cm
- VIGAS E PILARES = 2,5 cm
- BLOCOS,BALDRAMES E CONTENCOES (FACE EM CONTATO COM A TERRA) = 3,0 cm

1. ESSES COBRIMENTOS DEVERAO SER GARANTIDOS COM O USO DE ESPACADORES OU PASTILHAS.
COBRIMENTOS ESPECIFICOS EM CONTRARIO AOS VALORES INDICADOS ACIMA, ESTAO INDICADOS NOS DESENHOS DE FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:

NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO
NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

INDICE:

VA248, VA249, VA258, VA260 A VA265

FCK= 35 MPa

EC = 28 GPa (MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).

A/C = 0,65 (FATOR AGUA CIMENTO)

REV	DATA	DESCRICAO
2	19/08/2014	NUMERACAO FINAL
1	18/07/2012	REVISAO: MODIFICADA VA260 e ACRESCIMO DAS VA263, VA264 e VA265
0	15/06/2012	EMISSAO INICIAL

Simetria Engenharia
SIA QUADRA 4C lte 51 SALAS 201 a 203
BRASILIA-DF CEP: 71200-045
FONES: (0XX61) 3355-9000
simetria@simetria.eng.br

PROJETO ESTRUTURAL

CLIENTE: GENT INCORPORADORA LTDA.

OBRA: ED. RESIDENCIAL/COMERCIAL PAINEIRAS — No OBRA: XXX

ENDERECO OBRA: RUA 30 NORTE LOTE 03 - RUA DAS PAINEIRAS - AGUIAS CLARAS DF

DESCRICAO: ARMACAO DAS VIGAS - TORRE 1 - JUNTA A 1o SUBSOLO (03/03)

DESENHO No: BL1 037-090

DESENHISTA:	DATA:	ESCALA:	UNIDADE	No PROJ. SIMETRIA:
TOSI PRISCILLA	15/06/2012	1:50	CM	478

ARQUIVO PLT: 478 -EST-BL1- 037-090 -R02 -VIG.PLT

PROPRIETARIO: RESPONSAVEL TECNICO:

RESPONSAVEL TECNICO PELO PROJETO ESTRUTURAL

SIMETRIA ENGENHARIA E PROJETOS S/C LTDA
CREA:2705/RF

SIMETRIA ENGENHARIA DE PROJETOS S/C LTDA PLOTADO EM 19/08/2014 17:27:07