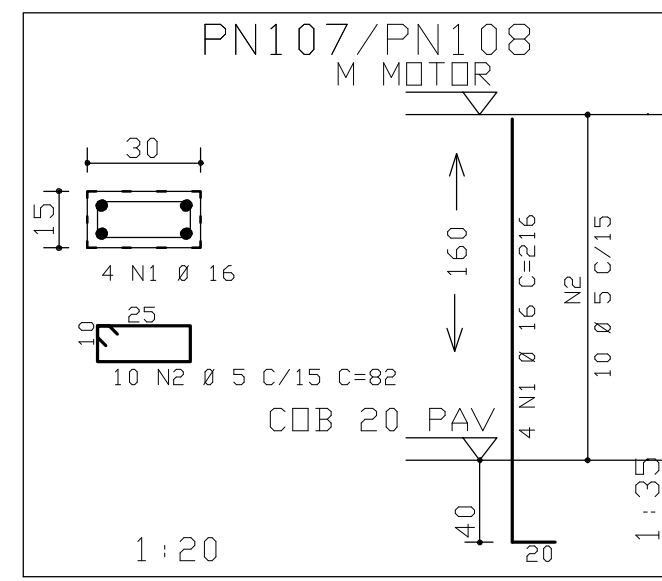
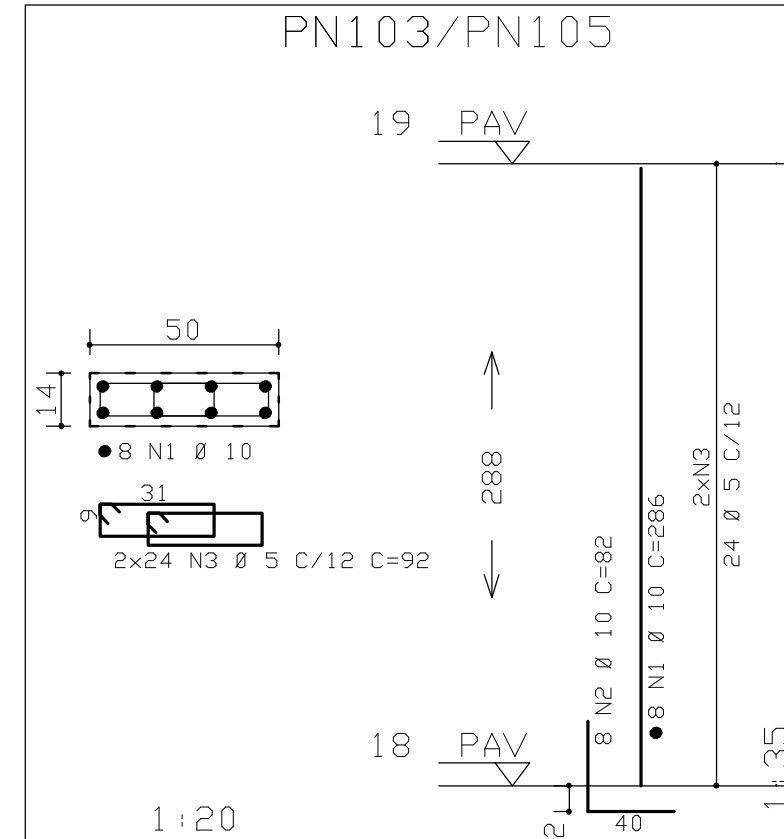
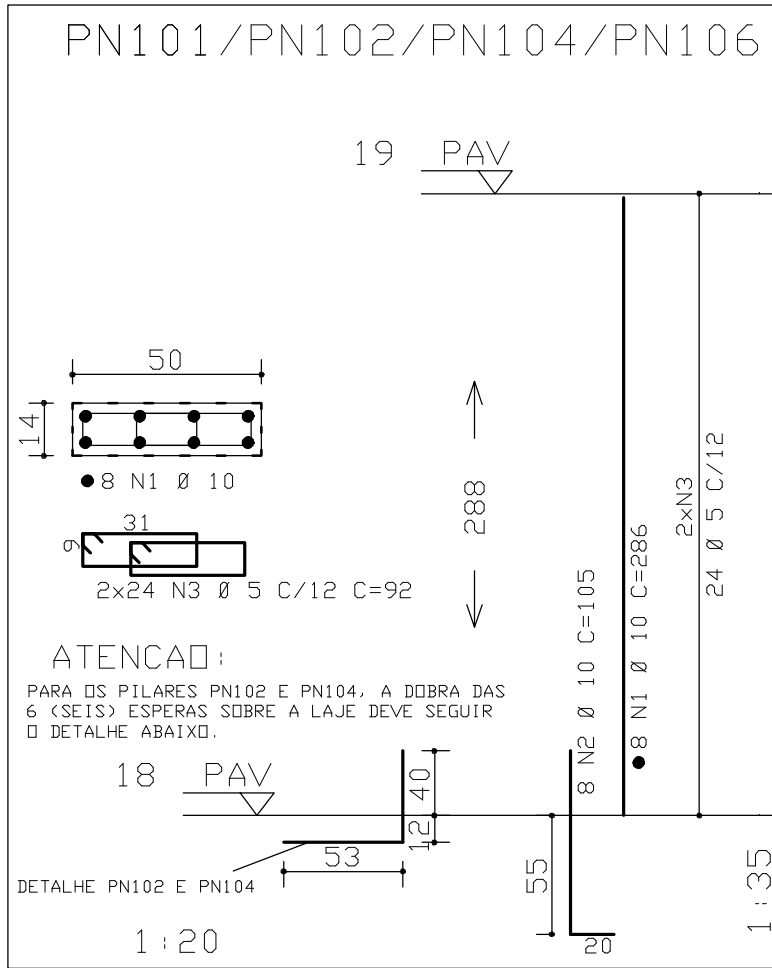
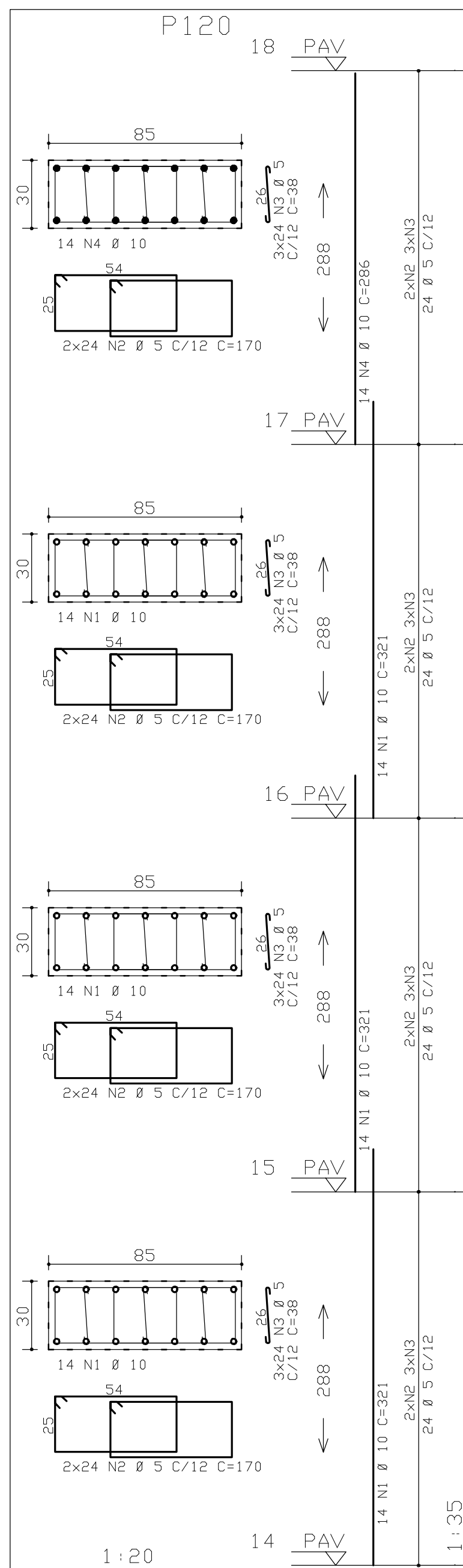
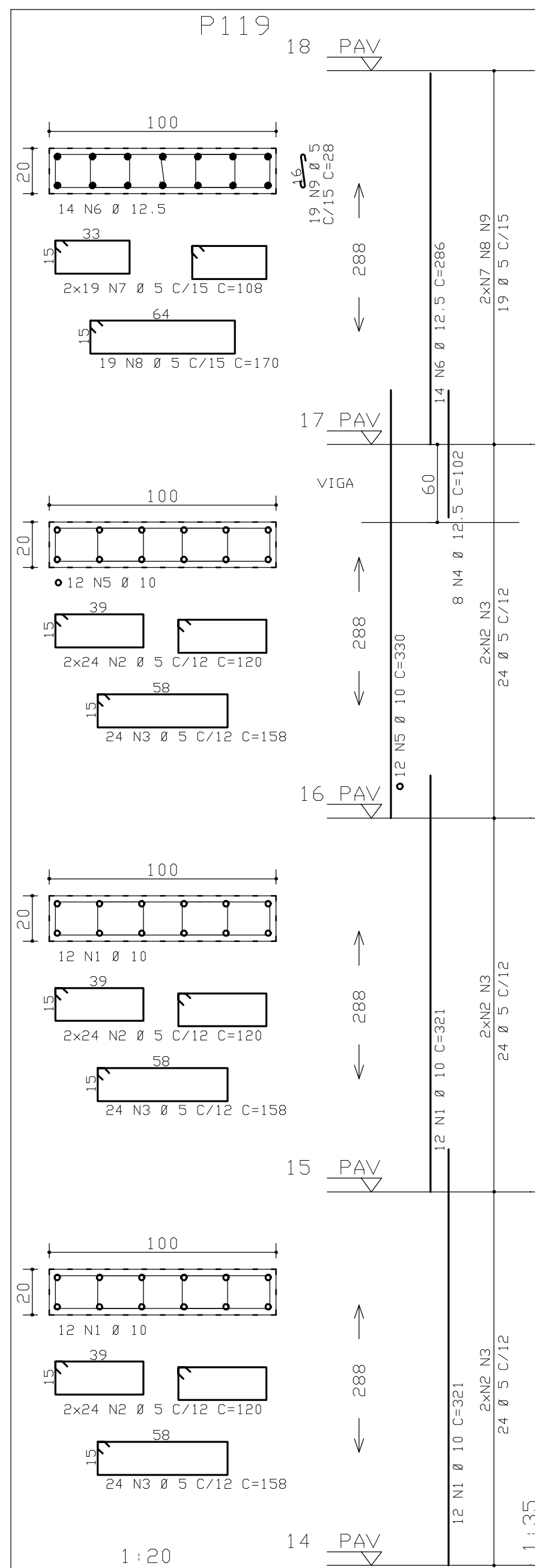
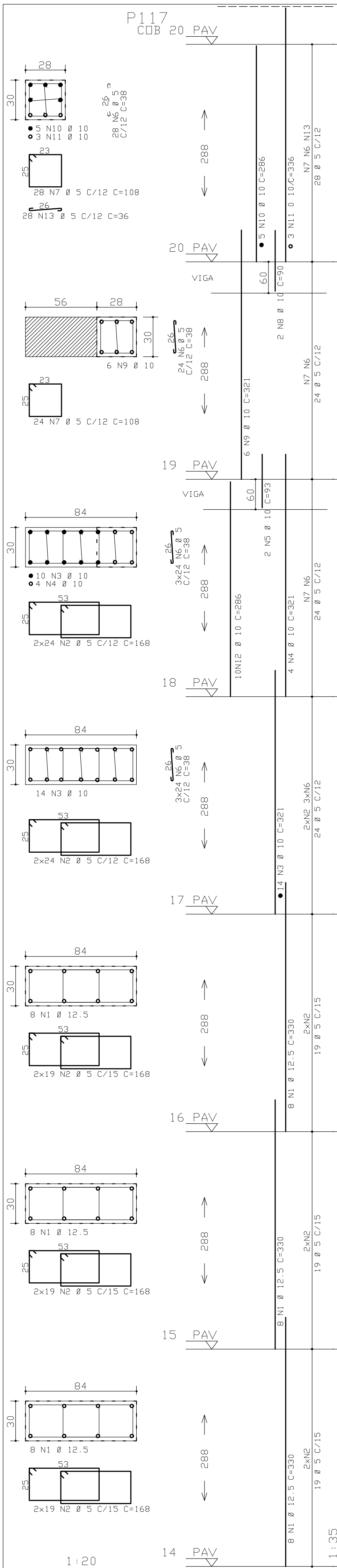
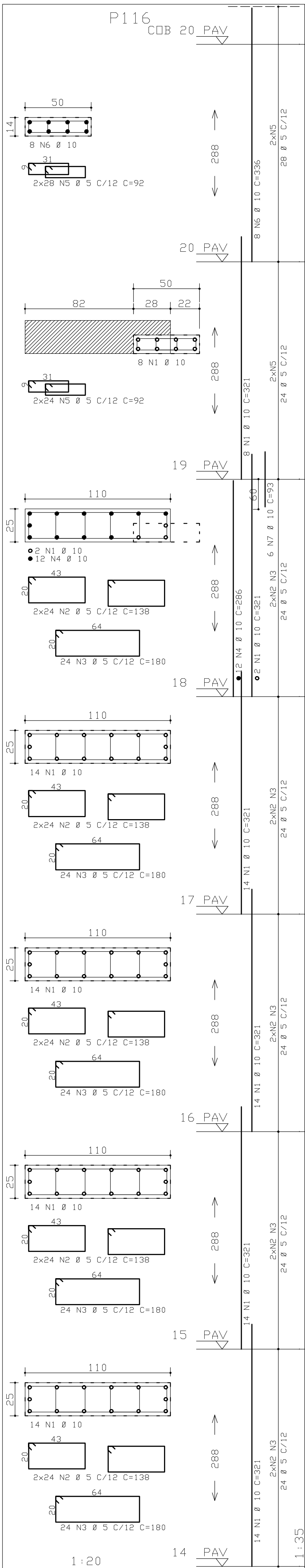
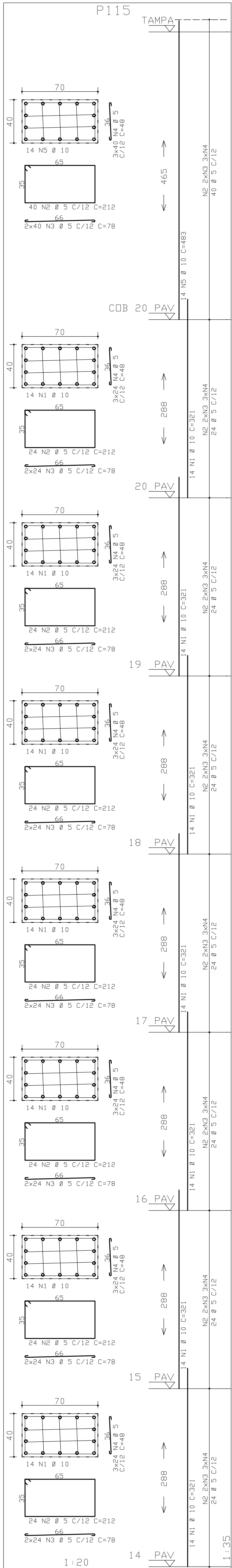
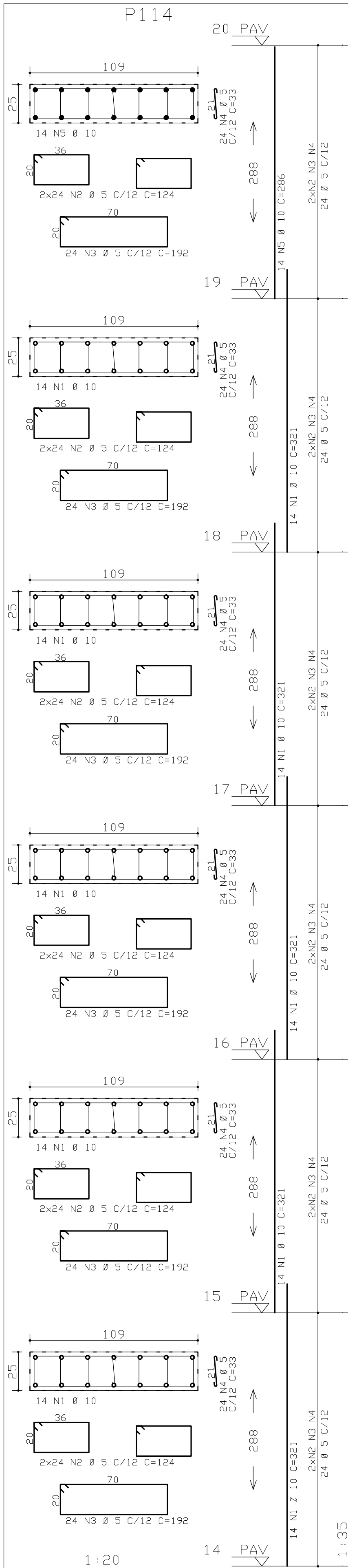




	ACO	PDS	BIT	QUANT	COMPRIMENTO	UNIT	TOTAL
			(mm)		(cm)	(cm)	
PN101	CX4	1	10	30	288	9120	
		50A	0	10	30	190	2880
		50B	0	10	30	190	2880
		50C	0	10	30	190	2880
PN105	CX9	3	5	120	90	17640	
		50A	0	10	10	144	32
		50B	0	10	10	144	32
		50C	0	10	10	144	32
		50D	0	10	10	144	32
		50E	0	10	10	144	32
		50F	0	10	10	144	32
		50G	0	10	10	144	32
		50H	0	10	10	144	32
		50I	0	10	10	144	32
		50J	0	10	10	144	32
		50K	0	10	10	144	32
		50L	0	10	10	144	32
		50M	0	10	10	144	32
		50N	0	10	10	144	32
		50O	0	10	10	144	32
		50P	0	10	10	144	32
		50Q	0	10	10	144	32
		50R	0	10	10	144	32
		50S	0	10	10	144	32
		50T	0	10	10	144	32
		50U	0	10	10	144	32
		50V	0	10	10	144	32
		50W	0	10	10	144	32
		50X	0	10	10	144	32
		50Y	0	10	10	144	32
		50Z	0	10	10	144	32
		50AA	0	10	10	144	32
		50AB	0	10	10	144	32
		50AC	0	10	10	144	32
		50AD	0	10	10	144	32
		50AE	0	10	10	144	32
		50AF	0	10	10	144	32
		50AG	0	10	10	144	32
		50AH	0	10	10	144	32
		50AI	0	10	10	144	32
		50AJ	0	10	10	144	32
		50AK	0	10	10	144	32
		50AL	0	10	10	144	32
		50AM	0	10	10	144	32
		50AN	0	10	10	144	32
		50AO	0	10	10	144	32
		50AP	0	10	10	144	32
		50AQ	0	10	10	144	32
		50AR	0	10	10	144	32
		50AS	0	10	10	144	32
		50AT	0	10	10	144	32
		50AU	0	10	10	144	32
		50AV	0	10	10	144	32
		50AW	0	10	10	144	32
		50AX	0	10	10	144	32
		50AY	0	10	10	144	32
		50AZ	0	10	10	144	32
		50BA	0	10	10	144	32
		50BB	0	10	10	144	32
		50BC	0	10	10	144	32
		50BD	0	10	10	144	32
		50BE	0	10	10	144	32
		50BF	0	10	10	144	32
		50BG	0	10	10	144	32
		50BH	0	10	10	144	32
		50BI	0	10	10	144	32
		50BJ	0	10	10	144	32
		50BK	0	10	10	144	32
		50BL	0	10	10	144	32
		50BM	0	10	10	144	32
		50BN	0	10	10	144	32
		50BO	0	10	10	144	32
		50BP	0	10	10	144	32
		50BQ	0	10	10	144	32
		50BR	0	10	10	144	32
		50BS	0	10	10	144	32
		50BT	0	10	10	144	32
		50BU	0	10	10	144	32
		50BV	0	10	10	144	32
		50BW	0	10	10	144	32
		50BX	0	10	10	144	32
		50BY	0	10	10	144	32
		50BZ	0	10	10	144	32
		50CA	0	10	10	144	32
		50CB	0	10	10	144	32
		50CC	0	10	10	144	32
		50CD	0	10	10	144	32
		50CE	0	10	10	144	32
		50CF	0	10	10	144	32
		50CG	0	10	10	144	32
		50CH	0	10	10	144	32
		50CI	0	10	10	144	32
		50CJ	0	10	10	144	32
		50CK	0	10	10	144	32
		50CL	0	10	10	144	32
		50CM	0	10	10	144	32
		50CN	0	10	10	144	32
		50CO	0	10	10	144	32
		50CP	0	10	10	144	32
		50CQ	0	10	10	144	32
		50CR	0	10	10	144	32
		50CS	0	10	10	144	32
		50CT	0	10	10	144	32
		50CU	0	10	10	144	32
		50CV	0	10	10	144	32
		50CW	0	10	10	144	32
		50CX	0	10	10	144	32
		50CY	0	10	10	144	32
		50CZ	0	10	10	144	32
		50DA	0	10	10	144	32
		50DB	0	10	10	144	32
		50DC	0	10	10	144	32
		50DD	0	10	10	144	32
		50DE	0	10	10	144	32
		50DF	0	10	10	144	32
		50DG	0	10	10	144	32
		50DH	0	10	10	144	32
		50DI	0	10	10	144	32
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		50DM	0	10	10	144	32
		50DN	0	10	10	144	32
		50DO	0	10	10	144	32
		50DP	0	10	10	144	32
		50DQ	0	10	10	144	32
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		50DS	0	10	10	144	32
		50DT	0	10	10	144	32
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		50DX	0	10	10	144	32
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		50DZ	0	10	10	144	32
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		50ED	0	10	10	144	32
		50EE	0	10	10	144	32
		50EF	0	10	10	144	32
		50EG	0	10	10	144	32
		50EH	0	10	10	144	32
		50EI	0	10	10	144	32
		50EJ	0	10	10	144	32
		50EK	0	10	10	144	32
		50EL	0	10	10	144	32
		50EM	0	10	10	144	32
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		50EO	0	10	10	144	32
		50EP	0	10	10	144	32
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		50ER	0	10	10	144	32
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		50ET	0	10	10	144	32
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		50EW	0	10	10	144	32
		50EX	0	10	10	144	32
		50EY	0	10	10	144	32
		50EZ	0	10	10	144	32
		50FA	0	10	10	144	32
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		50FF	0	10	10	144	32
		50FG	0	10	10	144	32
		50FH	0	10	10	144	32
		50FI	0	10	10	144	32
		50FJ	0	10	10	144	32
		50FK	0	10	10	144	32
		50FL	0	10	10	144	32
		50FM	0	10	10	144	32
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		50FO	0	10	10	144	32
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		50FQ	0	10	10	144	32
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		50FT	0	10	10	144	32
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		50FZ	0	10	10	144	32
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		50GJ	0	10	10	144	32
		50GK	0	10	10	144	32
		50GL	0	10	10	144	32
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		50GQ	0	10	10	144	32
		50GR	0	10	10	144	32
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		50GU	0	10	10	144	32
		50GV	0	10	10	144	32
		50GW	0	10	10	144	32
		50GX	0	10	10	144	32
		50GY	0	10	10	144	32
		50GZ	0	10	10	144	32
		50HA	0	10	10	144	32
		50HB	0	10	10	144	32
		50HC	0	10	10	144	32
		50HD	0	10	10	144	32
		50HE	0	10	10	144	32
		50HF	0	10	10	144	32
		50HG	0	10	10	144	32
		50HH	0	10	10	144	32
		50HI	0	10	10	144	32
		50HJ	0	10	10	1	

RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	614			98	
0.00	10	120			130	
0.00	12.5	150			86	
Peso Total	6.0B	=			598	
Peso Total	5.0A	=			1006	
PAVIMENTO 16 PAV						
RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	614			98	
0.00	10	120			130	
0.00	12.5	150			86	
Peso Total	6.0B	=			98	
Peso Total	5.0A	=			164	
PAVIMENTO 17 PAV						
RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	614			98	
0.00	10	120			130	
0.00	12.5	150			86	
Peso Total	6.0B	=			98	
Peso Total	5.0A	=			173	
PAVIMENTO 18 PAV						
RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	614			103	
0.00	10	250			130	
0.00	12.5	150			40	
Peso Total	6.0B	=			103	
Peso Total	5.0A	=			179	
PAVIMENTO 19 PAV						
RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	614			73	
0.00	10	180			113	
0.00	12.5	150			77	
Peso Total	6.0B	=			113	
Peso Total	5.0A	=			263	
PAVIMENTO 20 PAV						
RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	132			83	
0.00	10	132			30	
Peso Total	6.0B	=			83	
Peso Total	5.0A	=			113	
PAVIMENTO 21 MEI						
RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	255			36	
0.00	10	60			77	
Peso Total	6.0B	=			36	
Peso Total	5.0A	=			61	
PAVIMENTO 22 MEI						
RESUMO ACI CA 50-60						
ACO	BIT	COMPR			PESS	
(cm)	(m)	(m)			(kg/ft)	
0.00	5	255			36	
0.00	10	60			43	
Peso Total	6.0B	=			35	
Peso Total	5.0A	=			61	

COBRIMENTO DA ARMADURA:

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

1. ESSES COBRIMENTOS DEVERÃO SER GARANTIDOS COM O USO DE ESPACADORES OU PASTILHAS.

COBRIMENTOS ESPECÍFICOS EM CONTRAFOIOS: VALORES INDICADOS ACIMA, ESTÃO INDICADOS NOS DESENHOS DE FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:

NBR-6118/2003 - PROJETO E EXECUÇÃO DE OBRAS DE CONCRETO ARMADO

NBR-6120/1990 - CARGAS PARA O CÁLCULO DE ESTRUTURAS DE EDIFICAÇÕES

ÍNDICE

P114 - Piso 14o Pav ao Piso 20o Pav

P115 - Piso 14o Pav a Tampo Caixa

P116 / P117 - Piso 14o Pav a Cob 20o Pav

P119 - Piso 14o Pav ao Piso 18o Pav

PN101 AD PN108

FCK = 30 MPa

EC = 26 GPa (MÓDULO DE ELASTICIDADE SECANTE ÀS 28 DIAS)

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

3	28/01/2010	INCLUSÃO DOS PILARES PN101 AD PN108
2	01/07/2009	ALTERAÇÃO DA REDUÇÃO DO PILAR P116
1	16/04/2009	LIBERADO PARA OBRA
0	31/03/2009	EMISSION INICIAL
REV.	2016	REVISÃO

PROJETO ESTRUTURAL	CLIENTE: BISCO INCORPORADORA E IMOBILIÁRIA LTDA	OBRA: EDIFÍCIO RESIDENCIAL OLÍMPIQUE	ENDEREÇO: OBRAS-AREA, LOTES G E H - GUARÁ/DF	DESCRIÇÃO: ARMAÇÃO DOS PILARES DA TORRE A JUNTA A (09/09)	DESENHO Nº: 066-XXX
PROJETO: RLT	DATA: 31/03/2009	ESCALA:	UNIDADE: cm	NO PROJ: SÍMETRIA	REV: 01
PROPRIETÁRIO:	RESPONSÁVEL TÉCNICO:				
RESPONSÁVEL TÉCNICO PROJETO ESTRUTURAL					
SÍMETRIA ENGENHARIA E PROJETOS S/C LTDA					

